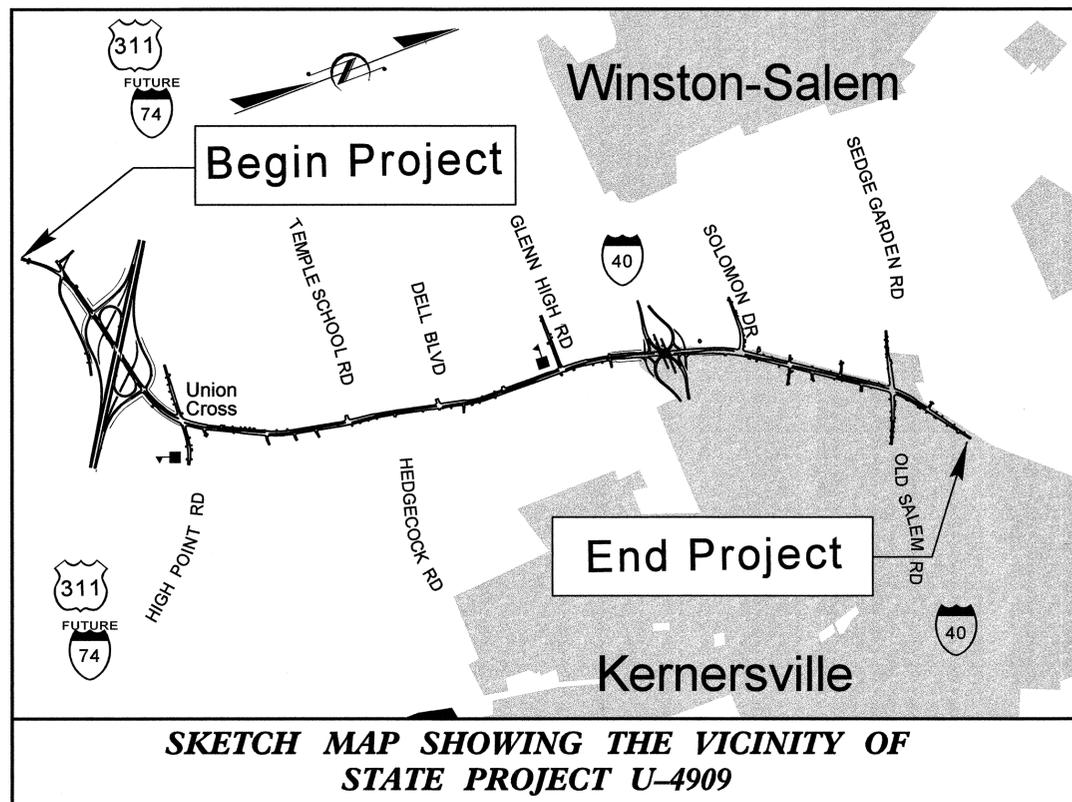


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

FORSYTH COUNTY



INDEX OF SHEETS

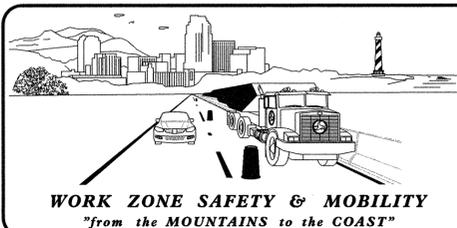
SHEET NO.	TITLE
TMP-1	INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND & TEMPORARY PAVEMENT MARKING SCHEDULE
TMP-2A & 2B	PROJECT NOTES
TMP-2C	TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS
TMP-2D	ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)
TMP-2E	ADVANCED WORKZONE WARING SIGN DESIGNS
TMP-2F	SPECIAL SIGN DESIGNS
TMP-2G	TEMPORARY SHORING NOTES
TMP-3 & 4	PHASE I PHASING
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TMP-78 THRU 95	PHASE III, STEP 3 DETAIL
TMP-96 & TMP-97	PHASE III, STEP 4 DETAIL
TMP-98	DETOUR ROUTE FOR RAMP "A" @ I-40
TMP-99	DETOUR ROUTE FOR RAMP "B" @ I-40
TMP-100	DETOUR ROUTE FOR RAMP "C" @ I-40
TMP-101	DETOUR ROUTE FOR RAMP "D" @ I-40
TMP-102	DETOUR ROUTE FOR -L-, UNION CROSS RD. (SR 2643)
TMP-103	DETOUR SIGNS, TYPE III BARRICADES, AND CHANGEABLE MESSAGE SIGNS

SHEET NO.
TMP-1

U-4909

TIP PROJECT:

9/6/2011 ddt\ud909.tc_tcp_title.dgn
 Florence & Hutcherson



N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
 1580 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1580
 1020 BIRCH RIDGE DRIVE, RALEIGH, NC 27610 (DELIVERY)
 PHONE: (919) 250-4094 FAX: (919) 250-4098

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
 J. ISHAK, P.E. TRAFFIC CONTROL PROJECT ENGINEER
 B. SCHOENBAUER, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
 TRAFFIC CONTROL DESIGN ENGINEER



APPROVED: *Michael T. Rzepka*
 DATE: 7-2-11

SEAL



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 JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGERS DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - INTERCHANGES
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU 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
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - TEMPORARY AND PERMANENT

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- CONTINUING CONSTRUCTION
- REMOVAL

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

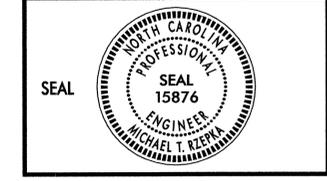
- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION
<u>PAINT (4")</u>	
PA	WHITE EDGELINE
PB	YELLOW EDGELINE
PC	10 FT. WHITE SKIP
PD	2 FT. WHITE MINISKIP
PE	WHITE SOLID LANE LINE
PF	10 FT. YELLOW SKIP
PH	SINGLE YELLOW CENTERLINE
PI	DOUBLE YELLOW CENTERLINE
<u>PAINT (6")</u>	
P7	YELLOW EDGELINE
<u>PAINT (8")</u>	
PR	WHITE GORELINE
PV	YELLOW DIAGONAL
<u>PAINT (24")</u>	
P4	WHITE STOP BAR
<u>PAINT SYMBOL</u>	
QA	LEFT ARROW
QB	RIGHT ARROW
QC	STRAIGHT ARROW
QD	COMBO STRAIGHT/LEFT MARKING
QE	COMBO STRAIGHT/RIGHT MARKING
QI	ALPHANUMERIC CHARACTER
<u>TEMPORARY RAISED MARKERS</u>	
MH	YELLOW & YELLOW
MI	CRYSTAL & RED

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APPROVED: *Michael A. Ryzko* DATE: 9-2-11



ROADWAY STANDARD DRAWINGS,
LEGEND &
TEMPORARY PAVEMENT
MARKING SCHEDULE

GENERAL NOTES

PROJECT NOTES

FH Florence & Hutcheson
CONSULTING ENGINEERS
5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No: P-0258

PROJ. REFERENCE NO.	SHEET NO.
U-4909	TMP-2A

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 CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
UNION CROSS RD. (-L-)	6:00 AM - 9:00 AM, MONDAY THRU FRIDAY
UNION CROSS RD. (-L-)	2:00 PM - 4:30 PM, MONDAY THRU FRIDAY ON A SCHEDULED SCHOOL DAY
I-40 (-Y15-)	6:00 AM - 9:00 PM, MONDAY THRU FRIDAY 9:00 AM - 9:00 PM, SATURDAY & SUNDAY

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

ROAD NAME

UNION CROSS RD. (-L-)
US 311 (-Y3-)
I-40 (-Y15-)

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 AM DECEMBER 31st TO 9:00 PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 PM THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 AM THURSDAY AND 9:00 PM MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY TO 9:00 PM TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 AM THE DAY BEFORE INDEPENDENCE DAY AND 9:00 PM THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 PM THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY AND 9:00 PM TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 AM TUESDAY TO 9:00 PM MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- FOR THE FURNITURE MARKETS, US 311 ONLY, BETWEEN THE HOURS OF 6:00 AM THE FRIDAY BEFORE THE START OF THE FURNITURE MARKETS AND 9:00 PM THE FRIDAY AFTER THE END OF THE FURNITURE MARKETS.
- FOR WAKE FOREST UNIVERSITY FOOTBALL GAMES, I-40 ONLY, OCCURRING AT GROVES STADIUM BETWEEN 4 HOURS BEFORE THE START AND 4 HOURS AFTER THE END OF THE WAKE FOREST UNIVERSITY FOOTBALL GAMES.
- FOR THE DIXIE CLASSIC FAIR IN WINSTON-SALEM, I-40 ONLY, BETWEEN THE HOURS OF 6:00 AM THE DAY BEFORE THE START OF THE DIXIE CLASSIC FAIR AND 9:00 PM THE DAY AFTER THE END OF THE DIXIE CLASSIC FAIR.

C) DO NOT CLOSE ROADS AS FOLLOWS (SEE ALSO LOCAL NOTE 3):

ROAD NAME	DAY AND TIME RESTRICTIONS
I-40 (-Y15-)	5:00 AM - 12:00 MIDNIGHT, MONDAY THRU SUNDAY AND FRIDAY 5:00 AM THRU MONDAY 12:00 MIDNIGHT

D) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
UNION CROSS RD. (-L-) US 311 (-Y3-)	5:00 AM TO 12:00 MIDNIGHT	15 min. PAVING, TRAFFIC SHIFTS, TIE-INS TRAFFIC SHIFTS
I-40 (-Y15-)	5:00 AM TO 12:00 MIDNIGHT TUESDAY THRU THURSDAY AND FRIDAY 5:00 AM THRU MONDAY 12:00 MIDNIGHT	TRAFFIC SHIFTS

E) DO NOT CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS; INGRESS AND EGRESS FROM RAMPS WILL BE ALLOWED:

ROAD NAME	DAY AND TIME RESTRICTIONS
UNION CROSS RD. (-L-)	6:00 AM - 9:00 AM, MONDAY THRU FRIDAY
UNION CROSS RD. (-L-)	2:00 PM - 4:30 PM, MONDAY THRU FRIDAY ON A SCHEDULED SCHOOL DAY
I-40 (-Y15-)	6:00 AM - 6:00 PM, MONDAY THRU SUNDAY

F) 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

- 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.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN 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.
- 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.
- 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.
- 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.
- DO NOT INSTALL MORE THAN TWO LANE CLOSURES, IN ANY ONE DIRECTION, ON UNION CROSS ROAD.
- DO NOT INSTALL MORE THAN ONE MILE OF LANE CLOSURE ON UNION CROSS ROAD MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- PROVIDE A MINIMUM OF ONE MILE BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- 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.
- 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 FEET IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- 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.
- PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FEET IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

- INSTALL TEMPORARY BARRIER ACCORDING TO THE TRAFFIC CONTROL 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 TRAFFIC CONTROL 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.

APPROVED: <i>Michael T. Kreppl</i> DATE: 9-2-11	PROJECT NOTES	
SEAL 	SCALE: NONE	
	DATE: SEPT '11	
	DWG. BY: YTM	
	DESIGN BY: GEP	
	REVIEWED BY: MTR	
		REVISIONS

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GENERAL NOTES (CONT'D)

LOCAL NOTES

 Florence & Hutcheson CONSULTING ENGINEERS <small>5121 Kingdom Way, Suite 100 Raleigh, NC 27607 NC License No: P-0258</small>	PROJ. REFERENCE NO.	SHEET NO.
	U-4909	TMP-2B

X) 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 IMPACT 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

Y) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADIUS, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.

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

AA) 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

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED

CC) 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.

DD) TIE TEMPORARY PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

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

FF) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

TEMPORARY / FINAL SIGNALS

GG) NOTIFY THE ENGINEER TWO (2) MONTHS BEFORE A TRAFFIC SIGNAL INSTALLATION BY OTHERS IS REQUIRED.

HH) SHIFT AND REVISE ALL SIGNAL HEADS AS SHOWN ON THE SIGNAL PLANS.

MISCELLANEOUS

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

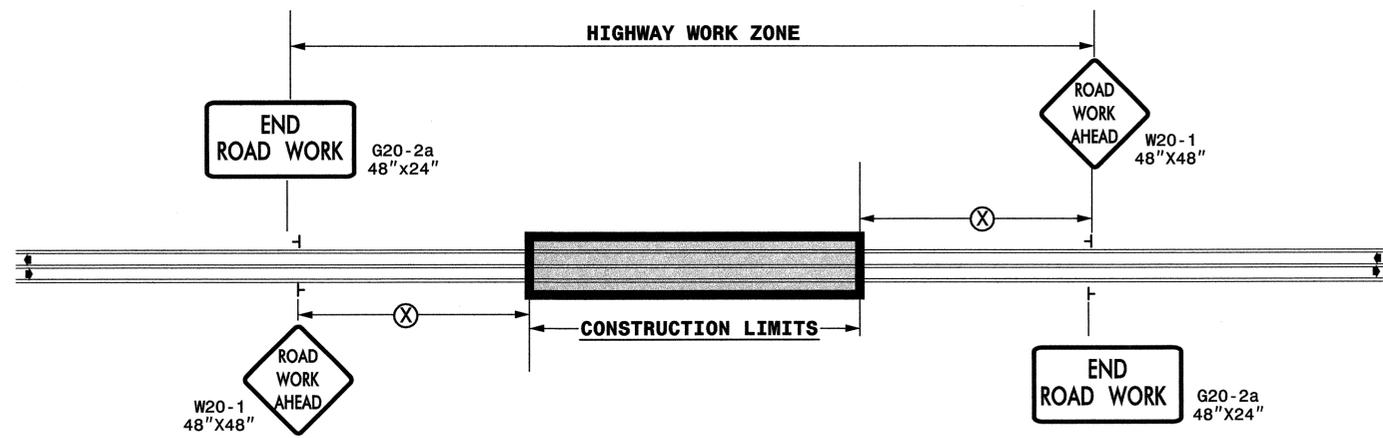
- 1) WHERE WEDGING OF EXISTING PAVEMENT OCCURS, TAPER WEDGING PAVEMENT TO PROVIDE SMOOTH RIDING TRANSITION TO EXISTING.
- 2) MAINTAIN PEDESTRIAN ACCESS TO EXISTING SIDEWALK ALONG GLENN HIGH SCHOOL DURING CONSTRUCTION.
- 3) WHEN HANGING GIRDERS OR REMOVING FALSEWORK OVER I-40, USE EXISTING RAMPS AS DETOURS. USING EXISTING RAMPS AS DETOURS WILL ONLY BE PERMITTED ON WEEKENDS AS DIRECTED BY THE ENGINEER FROM 12:00 MIDNIGHT THROUGH 5:00 AM. (SEE ALS GENERAL NOTE C)

Monday thru Thursday

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APPROVED: <i>Michael E. Byrnes</i> DATE: 9-2-11		PROJECT NOTES	
SEAL 	SCALE: NONE		REVISIONS
	DATE: SEPT '11		
	DWG. BY: YTM		
	DESIGN BY: GEP		
REVIEWED BY: MTR			

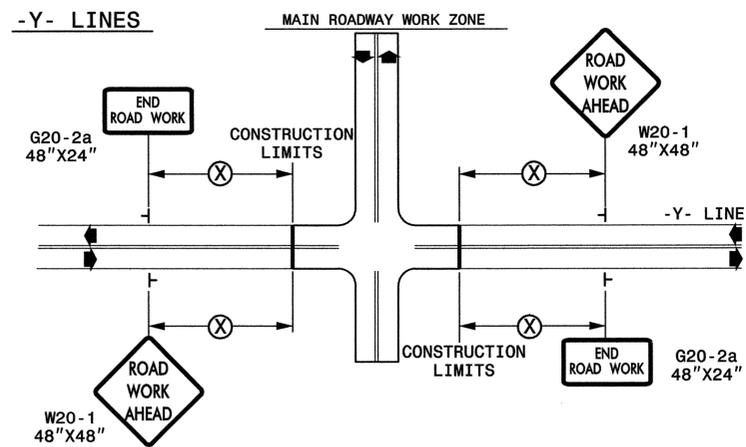
TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



**DETAIL DRAWING FOR
 TWO-WAY UNDIVIDED
 WORK ZONE WARNING SIGNS**

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

┆ STATIONARY SIGN

◄ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: <i>Michael J. Rzepka</i> DATE: 9-2-11	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCE WORK ZONE WARNING SIGNS	
	SCALE: NONE	
	DATE: SEPT '11	
	DWG. BY: YTM	
	DESIGN BY: GEP	
REVIEWED BY: MTR	REVISIONS	

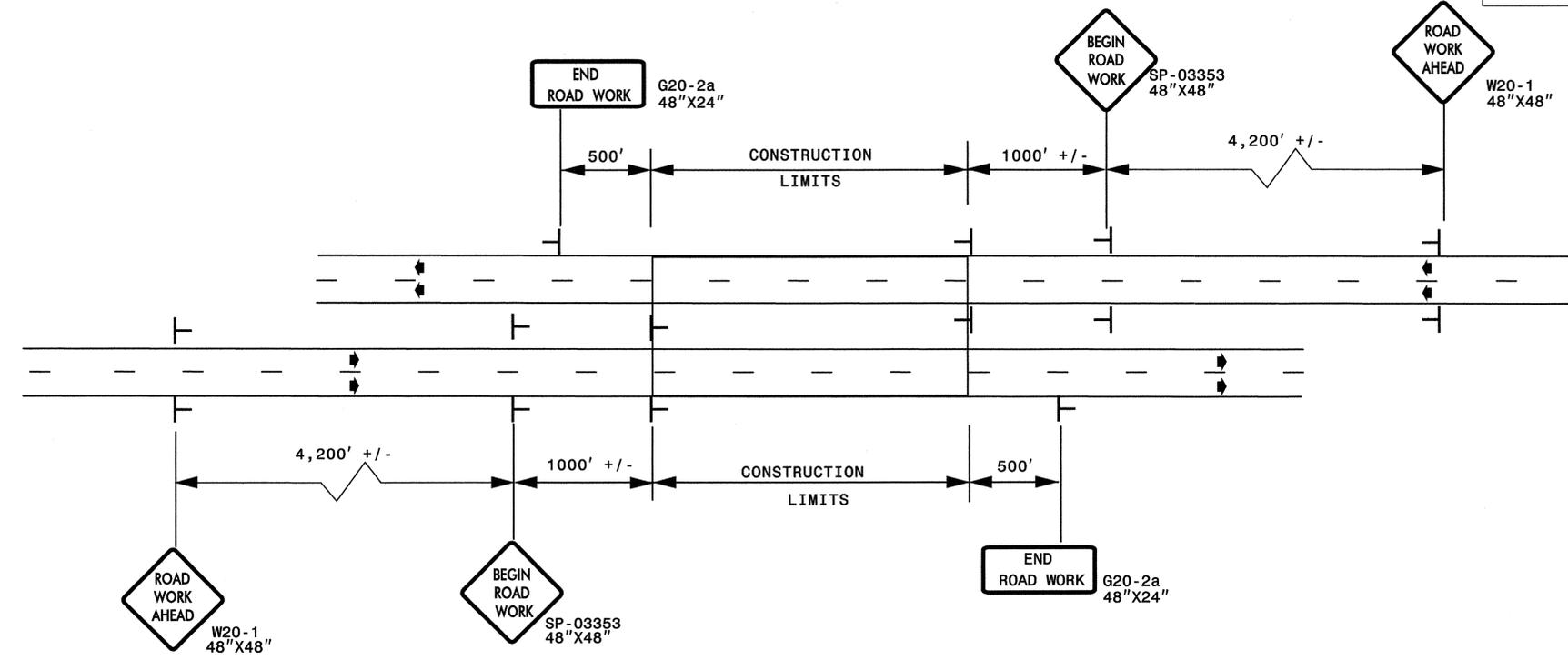
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ADVANCED WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

Florence & Hutcheson
 CONSULTING ENGINEERS
 5121 Kingdom Way, Suite 100 Raleigh, NC 27607
 NC License No: F-0258

PROJ. REFERENCE NO.	SHEET NO.
U-4909	TMP-2D

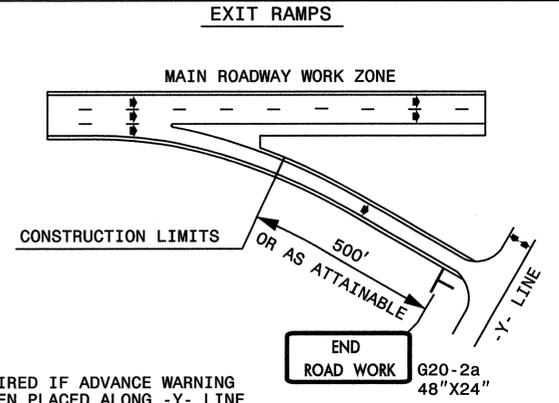
DETAIL A



LEGEND	
—	STATIONARY SIGN
→	DIRECTION OF TRAFFIC FLOW

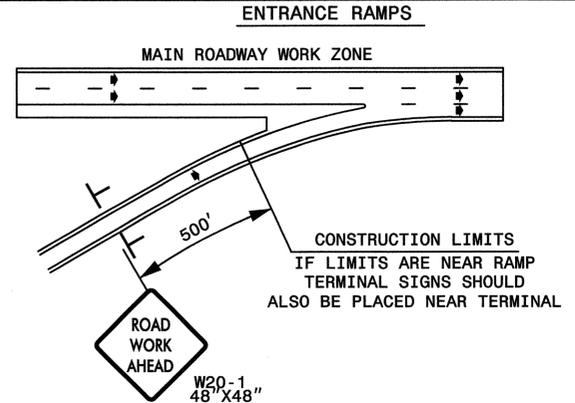
* USE THE "\$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "\$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.

DETAIL B

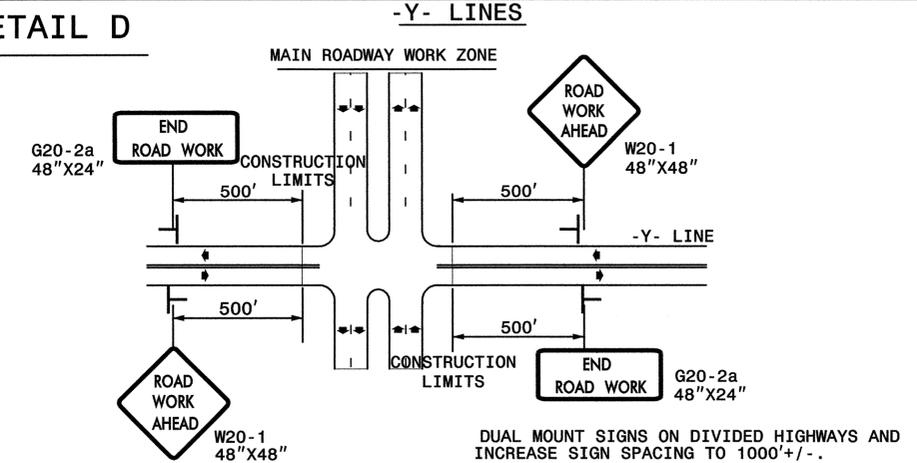


NOTE: SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

DETAIL C



DETAIL D



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.

APPROVED: *Michael T. Zepka* DATE: 9-2-11

SEAL

ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)	
SCALE: NONE	REVISIONS
DATE: SEPT '11	
DWG. BY: YTM	
DESIGN BY: GEP	
REVIEWED BY: MTR	

r:\1002_dcf\Freeways_4lanes_or_greater.dgn 9/2/2011 12:46 PM

SP 11299

<p>SIGN NUMBER: SP-11299 BACKG COLOR: Fluorescent Orange TYPE: E COPY COLOR: Black QUANTITY: SEE PLANS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> <p>SIGN WIDTH: 4'-0" HEIGHT: 4'-0" TOTAL AREA: 16.0 Sq.Ft.</p> <p>BORDER TYPE: INSET RECESS: 0.59" WIDTH: 0.75" RADII: 1.38"</p> <p>MAT'L: 0.125" (3.2mm) ALUMINUM</p> <p>NO. Z BARS: N/A LENGTH: N/A</p> <p>USE NOTES: 1,2 1. Legend and border shall be direct applied non-reflective sheeting. 2. Background shall be Type VII reflective sheeting.</p>	SYMBOL	X	Y	WID	HT																																														<p>DESIGN BY: CWJ CHECKED BY: DATE: Jun 22, 2011 PROJECT ID: I-2304AD DIV: 9</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 colspan="10"></th> <th>Text Length</th> </tr> </thead> <tbody> <tr> <td></td><td>B</td><td>E</td><td>G</td><td>I</td><td>N</td><td></td><td></td><td></td><td></td> <td>D 2000</td> </tr> <tr> <td>20.5</td><td>6</td><td>5.4</td><td>6.3</td><td>2.8</td><td>4.8</td><td>20.5</td><td></td><td></td><td></td> <td>25.2</td> </tr> <tr> <td></td><td>R</td><td>O</td><td>A</td><td>D</td><td></td><td></td><td></td><td></td><td></td> <td>D 2000</td> </tr> <tr> <td>21.4</td><td>5.8</td><td>5.9</td><td>7</td><td>4.8</td><td>21.4</td><td></td><td></td><td></td><td></td> <td>23.5</td> </tr> <tr> <td></td><td>W</td><td>O</td><td>R</td><td>K</td><td></td><td></td><td></td><td></td><td></td> <td>D 2000</td> </tr> <tr> <td>20.9</td><td>7.1</td><td>6.5</td><td>5.9</td><td>4.9</td><td>20.9</td><td></td><td></td><td></td><td></td> <td>24.5</td> </tr> </tbody> </table> <p>FILENAME: BEGIN ROAD WORK2</p>	Letter spacings are to start of next letter										Series/Size											Text Length		B	E	G	I	N					D 2000	20.5	6	5.4	6.3	2.8	4.8	20.5				25.2		R	O	A	D						D 2000	21.4	5.8	5.9	7	4.8	21.4					23.5		W	O	R	K						D 2000	20.9	7.1	6.5	5.9	4.9	20.9					24.5
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NORTH CAROLINA D.O.T. SIGN DETAIL

GENERAL NOTES FOR THE "BEGIN ROAD WORK" SIGN

- SIGN SP-11299 "BEGIN ROAD WORK" ONLY APPLIES TO FULL CONTROL AND PARTIAL CONTROL OF ACCESS ROADWAYS
- WHEN USED, INSTALL SIGN SP-11299 "BEGIN ROAD WORK" ACCORDING TO DETAIL A ON SHEET TMP-2D.

APPROVED: <i>Michael T. Rzepka</i> DATE: 9-2-11	DETAIL DRAWING FOR ADVANCED WORK ZONE WARNING SIGN DESIGNS							
SEAL 	SCALE: NONE							
	DATE: SEPT '11							
	DESIGN BY: YTM							
	REVIEWED BY: MTR							
		REVISIONS <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>						

SIGN NUMBER: name
TYPE: D
QUANTITY: 1
SIGN WIDTH: 5'-6"
HEIGHT: 2'-6"
TOTAL AREA: 13.8 Sq.Ft.
BORDER TYPE: INSET
RECESS: 0.50"
WIDTH: 0.75"
RADII: 1.875"
NO. Z BARS: 1
LENGTH: 13.8

BACKG COLOR: Orange
COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM

DESIGN BY: GEP
PROJECT ID: U-4909
CHECKED BY: [Signature]
DIV: 9
DATE: Aug 31, 2011

BORDER R=1.875"
TH=0.75"
IN=0.50"

USE NOTES: 1 & 2
1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be Type VII, VIII, or IX (prismatic) fluorescent orange retroreflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

W	E	A	T	H	E	R	T	O	N	Series/Size	Text Length
8.3	14.5	18.7	24.2	28.8	34.3	39	43.6	48.1	53.7	D 2000	49.5
22.2	27.6	32.7	34.6	40.1						D 2000	21.5

U N I O N
C R O S S R D

FILENAME: u4909_special_signs_2f NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: name
TYPE: D
QUANTITY: 1
SIGN WIDTH: 4'-6"
HEIGHT: 2'-6"
TOTAL AREA: 11.3 Sq.Ft.
BORDER TYPE: INSET
RECESS: 0.50"
WIDTH: 0.75"
RADII: 1.875"
NO. Z BARS: 1
LENGTH: 11.3

BACKG COLOR: Orange
COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM

DESIGN BY: GEP
PROJECT ID: U-4909
CHECKED BY: [Signature]
DIV: 9
DATE: Aug 31, 2011

BORDER R=1.875"
TH=0.75"
IN=0.50"

USE NOTES: 1 & 2
1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be Type VII, VIII, or IX (prismatic) fluorescent orange retroreflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

W	O	O	D	W	A	Y	Series/Size	Text Length
7.8	14	19.4	25	29.9	35.6	41	D 2000	38.3
16.2	21.6	26.7	28.6	34.1			D 2000	21.5

W O O D W A Y

FILENAME: u4909_special_signs_2f NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: name
TYPE: STATIONARY
QUANTITY: 1
SIGN WIDTH: 4'-6"
HEIGHT: 2'-0"
TOTAL AREA: 9.0 Sq.Ft.
BORDER TYPE: INSET
RECESS: 0.47"
WIDTH: 0.63"
RADII: 1.5"
NO. Z BARS: 1
LENGTH: 9.0

BACKG COLOR: Fluorescent Orange
COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM

DESIGN BY: GEP
PROJECT ID: U-4909
CHECKED BY: [Signature]
DIV: 9
DATE: Aug 19, 2011

BORDER R=1.5"
TH=0.63"
IN=0.47"

USE NOTES: 1 & 2
1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be Type VII, VIII, or IX (prismatic) fluorescent orange retroreflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

U	N	I	O	N	Series/Size	Text Length
15.5	21	26.6	28.8	34.4	D 2000	23
7.3	12.7	17.6	22.8	27.5	D 2000	39.5

C R O S S R D

FILENAME: u4909_tc_det_signsandbarricades NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: name
TYPE: STATIONARY
QUANTITY: 1
SIGN WIDTH: 5'-6"
HEIGHT: 3'-0"
TOTAL AREA: 16.5 Sq.Ft.
BORDER TYPE: INSET
RECESS: 0.625"
WIDTH: 0.875"
RADII: 2.25"
NO. Z BARS: 1
LENGTH: 16.5

BACKG COLOR: Fluorescent Orange
COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.063" (1.6 mm) ALUMINUM
0.080" (2.0 mm) ALUMINUM
0.125" (3.2 mm) ALUMINUM

DESIGN BY: GEP
PROJECT ID: U-4909
CHECKED BY: [Signature]
DIV: 9
DATE: Aug 19, 2011

BORDER R=2.25"
TH=0.875"
IN=0.625"

USE NOTES: 1 & 2
1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be Type VII, VIII, or IX (prismatic) fluorescent orange retroreflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

U	N	I	O	N	Series/Size	Text Length
17.7	25	32.4	35.4	42.9	D 2000	30.6
6.7	13.9	20.5	27.4	33.6	D 2000	52.6

C R O S S R D

FILENAME: u4909_tc_det_signsandbarricades NORTH CAROLINA D.O.T. SIGN DETAIL

APPROVED: [Signature] DATE: 9-2-11

SEAL

SPECIAL SIGN DESIGNS

SCALE: NONE
DATE: SEPT '11
DWG. BY: YTM
DESIGN BY: GEP
REVIEWED BY: MTR

REVISIONS

SEAL

PROFESSIONAL SEAL 15876 ENGINEER MICHAEL T. RZEPA

REVISIONS

PHASING

FH Florence & Hutcheson
CONSULTING ENGINEERS
5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No. P-0285

PROJ. REFERENCE NO.	SHEET NO.
U-4909	TMP-3

PHASE I

STEP 1

INSTALL WORK ZONE SIGNS ALONG EXISTING SR 2643 (UNION CROSS RD.) AND ALL -Y- LINES AS SHOWN ON SHEETS TMP-2C THRU TMP-2E.

CONTRACTOR SHALL INSTALL CHANGEABLE MESSAGE SIGNS (CMS) ON THE PROJECT AS DIRECTED BY THE ENGINEER.

STEP 2

AWAY FROM TRAFFIC AND USING ROADWAY STANDARD DRAWING NO. 1101.04, REMOVE EXISTING FIBER OPTIC SYSTEM ALONG EXISTING UNION CROSS ROAD (SEE UTILITY PLANS).

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1 & 2 OF 9, PLACE PORTABLE CONCRETE BARRIER (PCB) ALONG SOUTHBOUND -L-, UNION CROSS RD. (SR 2643) SHOULDER FROM -L- STA. 155+25± TO -L- STA. 161+80±. (SEE SHEET TMP-23)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9, INSTALL PCB ON OUTSIDE SHOULDER FROM -Y15- STA. 31+50± TO -Y15- STA. 43+00± (EASTBOUND) AND FROM -Y15- STA. 37+50± TO -Y15- STA. 47+50± (WESTBOUND). (SEE SHEETS TMP-23, TMP-31 AND TMP-32)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9 CONSTRUCT DECELERATION/ACCELERATION MEDIAN PAVEMENT (12' WIDE) FROM -Y15- STA. 33+50± TO -Y15- STA. 38+50± (WESTBOUND) AND -Y15- STA. 43+00± TO -Y15- STA. 48+00± (EASTBOUND). (SEE SHEETS TMP-23, TMP-31 AND TMP-32)

BEHIND PCB AND USING ROAD CLOSURES, BEGIN CONSTRUCTION OF PROPOSED OF -L- STRUCTURE OVER I-40. (SEE LOCAL NOTE 3 AND SHEET TMP-23)(SEE PHASE I, STEP 3 FOR MEDIAN PIER CONSTRUCTION)

CLOSE EXISTING -Y16-, PECAN LN. & -Y18-, SILVER CREEK TR. ACCESSES TO EXISTING UNION CROSS RD. (SR 2643) AND CONSTRUCT PROPOSED CUL-DE-SACS. (SEE SHEET TMP-24)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1, 2, 3 OR 4 OF 9, BEGIN WEDGING AND WIDENING UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE, INCLUDING DRAINAGE, AND EXISTING AT THE FOLLOWING LOCATIONS:

- L- STA. 20+34± TO STA. 30+00± LT (SEE SHEETS TMP-13 & TMP-14)
- L- STA. 43+00± TO STA. 53+00± RT (SEE SHEETS TMP-15 & TMP-16)
- L- STA. 44+50± TO STA. 57+00± LT (SEE SHEETS TMP-15 & TMP-16)
- L- STA. 92+97± TO STA. 97+00± LT (SEE SHEET TMP-19)
- L- STA. 136+65± TO STA. 140+61± LT (SEE SHEET TMP-22)
- L- STA. 172+58± TO EOP OF -Y17-, SOLOMON DR. (SEE SHEET TMP-24)
- L- STA. 175+00± TO STA. 178+00± LT (SEE SHEET TMP-24)
- L- FROM -Y19- TO STA. 190+00± LT (SEE SHEET TMP-25)
- L- FROM STA. 201+00± TO STA. 225+10± LT (SEE SHEETS TMP-26 & TMP-27)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, BEGIN WEDGING AND WIDENING UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE INCLUDING PROPOSED DRAINAGE AT THE FOLLOWING EXISTING -Y- LINES:

- Y1-, UNION CROSS RD. (SR 2643) FROM STA. 12+00± TO STA. 13+73± (SEE SHEET TMP-13)
- Y4-, HIGH POINT RD. (SR 1003) FROM STA. 11+00± TO STA. 22+14± (SEE SHEET TMP-16)
- Y5-, PINWOOD TR. (SR 2684) FROM STA. 10+00± TO STA. 12+05± (SEE SHEET TMP-16)
- Y10-, DELL BLVD. (SR 2798) FROM STA. 13+90± TO STA. 15+50± (SEE SHEET TMP-20)
- Y13-, GLENN HIGH RD. (SR 2679) FROM STA. 12+00± TO STA. 23+04± (SEE SHEET TMP-22)
- Y17-, SOLOMON DR. (SR 2880) FROM STA. 10+20± TO STA. 21+48± (SEE SHEET TMP-24)
- Y19-, BILOXI AVE. (SR 3814) FROM STA. 12+40± TO STA. 13+82± (SEE SHEET TMP-25)
- Y21- STA. 11+00± TO STA. 13+78± (WITH TEMP. TIE TO EXISTING UNION CROSS RD.) (SEE SHEET TMP-26)
- Y23- STA. 10+60± TO STA. 19+00± LT (SEE SHEET TMP-33)
- Y24-, GREENLAWN DR. FROM STA. 13+30± TO STA. 14+53± (SEE SHEET TMP-27)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1, 2, 3, OR 4 OF 9, BEGIN PROPOSED CONSTRUCTION UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE INCLUDING DRAINAGE AT THE FOLLOWING LOCATIONS:

- NB -L- STA. 57+50± TO STA. 73+00± (SEE SHEETS TMP-16 & TMP-17)
- NB -L- STA. 74+60± TO STA. 79+23± (SEE SHEETS TMP-17 & TMP-18)
- NB -L- STA. 80+10± TO STA. 90+00± (SEE SHEETS TMP-18 & TMP-19)
- SB -L- STA. 97+00± TO STA. 115+00± (SEE SHEETS TMP-19 & TMP-20)
- SB -L- STA. 140+61± TO STA. 151+41± (SEE SHEETS TMP-22 & TMP-23)
- L SB- STA. 151+41± TO -L SB- STA. 153+50± (SEE SHEET TMP-23)
- SB -L- STA. 164+00± TO STA. 172+58± (SEE SHEETS TMP-23 & TMP-24)
- SB -L- STA. 190+00± TO STA. 201+00± - DO NOT CONSTRUCT MEDIAN C&G (SEE SHEETS TMP-25 & TMP-26)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 6 OF 9, BEGIN CONSTRUCTION OF PROPOSED WIDENING UP TO EXISTING PAVEMENT ELEVATION AT THE FOLLOWING LOCATION:

- Y3RPA- STA. 13+10± TO STA. 17+00± (SEE SHEET TMP-28)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, BEGIN CONSTRUCTION OF -Y7A-, CHAMELIN RD. FROM STA. 10+44± TO STA. 11+95± UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE. AT THE END OF EACH DAY'S OPERATION, PLACE INCIDENTAL STONE OR ASPHALT TO MAINTAIN ACCESS. USE DRUMS TO DELINEATE THE TRAVEL WAY DURING CONSTRUCTION ON INCIDENTAL STONE AND TEMPORARY PAVEMENT MARKINGS (PAINT) ON ASPHALT. (SEE SHEET TMP-18)

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE THE FOLLOWING:

- Y3RPA- STA. 17+00± TO STA. 29+00± (SEE SHEETS TMP-14, TMP-15 & TMP-28)
- Y3LPB- STA. 12+00± TO STA. 17+00± (SEE SHEET TMP-14)
- Y3RPB- STA. 14+10± TO STA. 26+00± (SEE SHEETS TMP-14 & TMP-28)
- Y3RPD- STA. 17+10± TO STA. 26+53± (SEE SHEETS TMP-15, TMP-29 & TMP-30)
- Y3LPD- STA. 12+00± TO STA. 16+50± (SEE SHEET TMP-15)
- Y15RPC- STA. 17+10± TO STA. 21+52± (INCL. TEMPORARY PAVEMENT) (SEE SHEET TMP-23)
- Y15RPD- STA. 24+50± TO STA. 26+14± (SEE SHEETS TMP-23)
- Y23- STA. 19+00± TO STA. 22+10± (SEE SHEETS TMP-27 & TMP-33)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 2 OF 9, BEGIN CONSTRUCTION OF TEMPORARY PAVEMENT BEGINNING FROM PROPOSED SB -L- STA. 115+00± AND TYING TO EXISTING UNION CROSS RD. AT -L- STA. 120+00±. (SEE SHEETS TMP-20 & TMP-21)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, BEGIN CONSTRUCTION OF TEMPORARY WIDENING OF EXISTING AT THE FOLLOWING LOCATIONS:

- UNION CROSS RD. LT, -L- STA. 135+00± TO EXISTING -Y13- (SEE SHEET TMP-22)
- SEdge GARDEN RD. LT, -Y23- STA. 23+00± TO STA. 25+00± (SEE SHEETS TMP-27 & TMP-33)

BEHIND PCB, BEGIN CONSTRUCTION OF -L_NB- UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -L- STA. 154+50± TO BEGINNING OF BRIDGE AND FROM END OF BRIDGE TO -L- STA. 162+00±. (SEE SHEET TMP-23)

AWAY FROM TRAFFIC, CONSTRUCT PROPOSED -Y1- UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM PROPOSED -L- TO STA. 33+74± AND -Y2- FROM EXISTING UNION CROSS RD. TO STA. 12+68±. (SEE SHEETS TMP-13 & TMP-29)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1 & 2 OF 9, WEDGE AND WIDEN RIGHT OF EXISTING UNION CROSS RD. UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -L- STA. 8+15± TO -L- STA. 26+00±. (SEE SHEET TMP-13)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, CONSTRUCT -Y1-, HAYES DR. WIDENING UP TO EXISTING EDGE OF PAVEMENT ELEVATION FROM STA. 33+74± TO STA. 37+05± AND -Y2-, SWAIM DR. FROM STA. 12+68± TO STA. 14+00±. (SEE SHEETS TMP-13 & TMP-29)

APPROVED: <i>Michael T. Ziemba</i> DATE: 9-2-11	PHASE I PHASING									
	SCALE: NONE									
	DATE: SEPT '11									
	DESIGN BY: GEP									
	REVIEWED BY: MTR									
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REVISIONS										

PHASE I CONT'D

PHASING

 Florence & Hutcheson CONSULTING ENGINEERS <small>5121 Kingston Way, Suite 100 Raleigh, NC 27607 NC License No. F-0285</small>	PROJ. REFERENCE NO.	SHEET NO.
	U-4909	TMP-4

COMPLETE STEP 3 CONCURRENTLY WITH -L- STRUCTURE CONSTRUCTION IN STEP 2.

COMPLETE THE WORK REQUIRED OF PHASE I, STEP 3 IN 60 CALENDAR DAYS (SEE SPECIAL PROVISIONS AND LIQUIDATED DAMAGES)

STEP 3

USING RSD 1101.02 (SHEET 3 OF 9), COMPLETE THE FOLLOWING ON EB & WB I-40 (-Y15-) (SEE SHEETS TMP-23, 31 & 32):

- PLACE TEMPORARY YELLOW EDGELINES AND SHIFT TRAFFIC TO TEMPORARY PATTERNS
- INSTALL PCB ALONG TEMPORARY MEDIAN LANES:
 - Y15- STA 29+50± TO STA 43+00± EB
 - Y15- STA 38+50± TO STA 51+50± WB

BEHIND BARRIER, CONSTRUCT THE FOLLOWING PROPOSED (SEE ROADWAY PLANS):

- MEDIAN PIER FOR -L- STRUCTURE (TEMPORARY SHORING REQUIRED)
- MEDIAN PAVEMENT WIDENING -Y15- STA 40+05± TO STA 41+40±
- MEDIAN BARRIER, GUARDRAIL AND ATTENUATORS -Y15- STA 39+30± TO STA 42+05±

USING RSD 1101.02 (SHEET 3 OF 9), COMPLETE THE FOLLOWING ON EB & WB I-40 (-Y15-):

- REMOVE PCB ALONG TEMPORARY MEDIAN LANES
- PLACE TEMPORARY YELLOW EDGELINES AND SHIFT TRAFFIC TO ORIGINAL PATTERNS

CONTRACTOR MAY CONSTRUCT STEP 4 AND STEP 5 IN ANY ORDER, AND CONCURRENTLY WITH STEPS 2 & 3.

COMPLETE THE WORK REQUIRED OF PHASE I, STEP 4 IN 60 CALENDAR DAYS (SEE SPECIAL PROVISIONS AND LIQUIDATED DAMAGES)

STEP 4

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 3 & 7 OF 9, PLACE -Y3-, US 311 SOUTHBOUND TRAFFIC INTO THE MEDIAN LANE FROM -Y3- STA. 15+00± TO -Y3- STA. 52+00±. PLACE PCB IN THE OUTSIDE US 311 SOUTHBOUND LANE FROM -Y3- STA. 15+00± TO -Y3RPB- STA. 14+10± AND FROM -Y3- STA. 29+00± TO -Y3- STA. 52+00±. (SEE SHEETS TMP-34 THROUGH TMP-36)

BEHIND PCB CONSTRUCT RAMP "B" WIDENING UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -Y3RPB- STA. 8+30± TO -Y3RPB- STA. 14+10± AND LOOP "B" FROM -Y3LPB- STA. 19+09± TO -Y3- STA. 50+88±. (SEE SHEETS TMP-34 THROUGH TMP-36)

REMOVE PCB AND REOPEN BOTH LANES OF US 311 SOUTHBOUND TO TRAFFIC.

COMPLETE THE WORK REQUIRED OF PHASE I, STEP 5 IN 60 CALENDAR DAYS (SEE SPECIAL PROVISIONS AND LIQUIDATED DAMAGES)

STEP 5

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 3 & 7 OF 9, PLACE -Y3-, US 311 NORTHBOUND TRAFFIC INTO THE MEDIAN LANE FROM -Y3- STA. 28+50± TO -Y3- STA. 66+00±. PLACE PCB IN THE OUTSIDE US 311 NORTHBOUND LANE FROM -Y3- STA. 28+50± TO -Y3- STA. 50+55± AND FROM -Y3RPD- STA. 17+10± TO -Y3- STA. 66+00±. (SEE SHEETS TMP-38 THROUGH TMP-41)

BEHIND PCB CONSTRUCT LOOP "D" UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -Y3- STA. 28+89± TO -Y3LPD- STA. 19+09± AND RAMP "D" WIDENING FROM -Y3RPD- STA. 7+37± TO -Y3RPD- STA. 17+10±. (SEE SHEETS TMP-37 THROUGH TMP-40)

REMOVE PCB AND REOPEN BOTH LANES OF US 311 NORTHBOUND TO TRAFFIC.

STEP 6

IN ONE CONTINUOUS OPERATION, USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, PAVE AND WEDGE -Y1-, HAYES DR. (SR 4232) AND -Y2-, SWAIN RD. (SR 4231) TIE-INS UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -Y1- STA. 33+74± TO -Y1- STA. 37+05± AND -Y2- STA. 12+68± TO -Y2- STA. 14+00±. PLACE TEMPORARY PAVEMENT MARKING LINES AND SYMBOLS AND TEMPORARY MARKERS ON -Y1-, HAYES DR. (SR 4232), -Y2-, SWAIN RD. (SR 4231) AND -L-, UNION CROSS RD. OPEN ALL LANES UP TO TRAFFIC AS SHOWN ON SHEETS TMP-41 THRU TMP-43.

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1 AND 3 OF 9, BEGIN CONSTRUCTION UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE OF PROPOSED LEFT SIDE -L- FROM STA. 8+15± TO STA. 20+34± INCLUDING CURB AND GUTTER AND PROPOSED RIGHT SIDE -L- FROM STA. 26+00± TO STA. 31+00±. (SEE SHEETS TMP-41 AND TMP-42)

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE RAMP "C" FROM -Y3RPC- STA. 18+62± TO -Y3RPC- STA. 31+00±. (SEE SHEETS TMP-42 AND TMP-43)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 6 OF 9, BEGIN CONSTRUCTION OF RAMP "C" WIDENING UP TO EXISTING EDGE OF PAVEMENT ELEVATION FROM -Y3RPC- STA. 14+40± TO -Y3RPC- STA. 18+62±. (SEE SHEET TMP-43)

USING TYPE III BARRICADES, CLOSE -Y6- ACCESS TO EXISTING UNION CROSS RD. DETOUR -Y6- TRAFFIC TO -Y7-. CONSTRUCT PROPOSED -Y6- UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -Y6- STA. 10+00± TO -Y6- STA. 12+40± WITH A TEMPORARY TIE TO EXISTING UNION CROSS RD. REOPEN -Y6-. USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9, BEGIN CONSTRUCTION OF PROPOSED NORTHBOUND LANES OF -L- UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -L- STA. 73+00± TO -L- STA. 74+60± (SEE SHEET TMP-5) (SEE SHEET TMP-102A FOR DETOUR DETAILS).

STEP 7

USING TYPE III BARRICADES, CLOSE -Y7- ACCESS TO EXISTING UNION CROSS RD. DETOUR -Y7- TRAFFIC TO -Y6-. CONSTRUCT PROPOSED -Y7- UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -Y7- STA. 10+15± TO -Y7- STA. 11+75± WITH TEMPORARY TIE TO EXISTING UNION CROSS RD. REOPEN -Y7-. USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9, BEGIN CONSTRUCTION OF PROPOSED NORTHBOUND LANES OF -L- UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -L- STA. 79+23± TO STA. 80+10± (SEE SHEET TMP-5) (SEE SHEET TMP-102A FOR DETOUR DETAILS).

COMPLETE CONSTRUCTION OF PROPOSED -L- STRUCTURE OVER I-40.

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9, REMOVE TRAFFIC CONTROL DEVICES AND PCB FROM OUTSIDE SHOULDERS OF I-40.

COMPLETE THE FOLLOWING :

- L- STA. 20+34± TO STA. 28+00± LT
- L- STA. 26+00± TO STA. 31+00± RT
- L- STA. 44+50± TO STA. 57+00± LT
- L- STA. 45+00± TO STA. 47+00± RT
- L- STA. 92+97± TO STA. 97+00± LT
- L- STA. 136+65± TO STA. 140+61± LT
- L- STA. 140+61± TO -LSB- STA. 153+50± LT
- L- STA. 172+58± TO STA. 178+00± LT
- L- FROM -Y19- TO STA. 190+00± LT
- L- FROM STA. 201+00± TO STA. 225+10± LT
- Y3RPA- STA. 13+10± STA. 17+00±
- Y3RPC- STA. 14+40± TO STA. 18+62±
- Y4- (LEFT OF -L-)
- Y10-, -Y13-, -Y17-
- Y19- (LEFT OF -L- & LEFT SIDE WIDENING ONLY)
- Y21- (WITH TEMP. TIE TO EXISTING UNION CROSS RD.)
- Y23- (LEFT SIDE WIDENING ONLY)
- Y24-

COMPLETE THE FOLLOWING PROPOSED CONSTRUCTION BEGUN PREVIOUSLY:

- L- STA. 8+15± TO STA. 20+34± LT, INCLUDING CURB AND GUTTER
- SB -L- STA. 97+00± TO STA. 115+00±
- SB -L- STA. 140+61± TO STA. 151+75±
- L_NB- FROM -L- STA. 154+50± TO BEGINNING OF BRIDGE
- L_NB- FROM END OF BRIDGE TO -L- STA. 162+00±
- SB -L- FROM -L- STA. 164+00± TO STA. 172+58±
- SB -L- STA. 190+00± TO STA. 201+00±
- Y3RPA- STA. 17+00± TO STA. 29+00±
- Y3RPB- STA. 14+10± TO STA. 26+00±
- Y3RPC- STA. 18+62± TO STA. 31+00±
- Y3RPD- STA. 17+10± TO STA. 26+53±
- Y15RPC- STA. 17+10± TO STA. 21+52±
- Y15RPD- STA. 24+50± TO STA. 26+14±
- Y23- STA. 19+00± TO STA. 22+10±

COMPLETE TEMPORARY WIDENING OF EXISTING AT THE FOLLOWING LOCATIONS:

- UNION CROSS RD. LT, -L- STA. 135+00± TO EXISTING -Y13-
- SEDGE GARDEN RD. LT, -Y23- STA. 23+00± TO STA. 25+00±

COMPLETE TEMPORARY PAVEMENT BEGINNING FROM PROPOSED SB -L- STA. 115+00± AND TYING TO EXISTING UNION CROSS RD. AT -L- STA. 120+00±.

STEP 8

INSTALL TEMPORARY TRAFFIC SIGNALS AT THE FOLLOWING INTERSECTIONS:

- L- AND -Y4-, HIGH POINT RD. (SR 1003) (SEE SIGNAL PLANS AND SHEET TMP-57)
- L- AND -Y10-, DELL BLVD. (SR 2798) (SEE SIGNAL PLANS AND SHEET TMP-59)
- L- AND -Y13-, GLENN HIGH RD. (SR 2679) (SEE SIGNAL PLANS AND SHEET TMP-61)
- L- AND -Y15- EXIST. RAMP "C" & RAMP "B" (I-40) (SEE SIGNAL PLANS AND SHEET TMP-62)
- L- AND -Y15- EXIST. RAMP "A" & RAMP "D" (I-40) (SEE SIGNAL PLANS AND SHEET TMP-62)
- L- AND -Y23-, OLD SALEM RD./SEDGE GARDEN RD. (SR 2632) (SEE SIGNAL PLANS AND SHEET TMP-66)

STEP 9a

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9 OR ROADWAY STANDARD DRAWING NO. 1101.04, INSTALL AND COVER ALL ROAD CLOSURE AND DETOUR SIGNING AS SHOWN ON SHEETS TMP-100 AND TMP-101.

COMPLETE THE WORK REQUIRED OF PHASE I, STEPS 9b & 9c IN 15 CALENDAR DAYS (SEE SPECIAL PROVISIONS AND LIQUIDATED DAMAGES)

STEP 9b

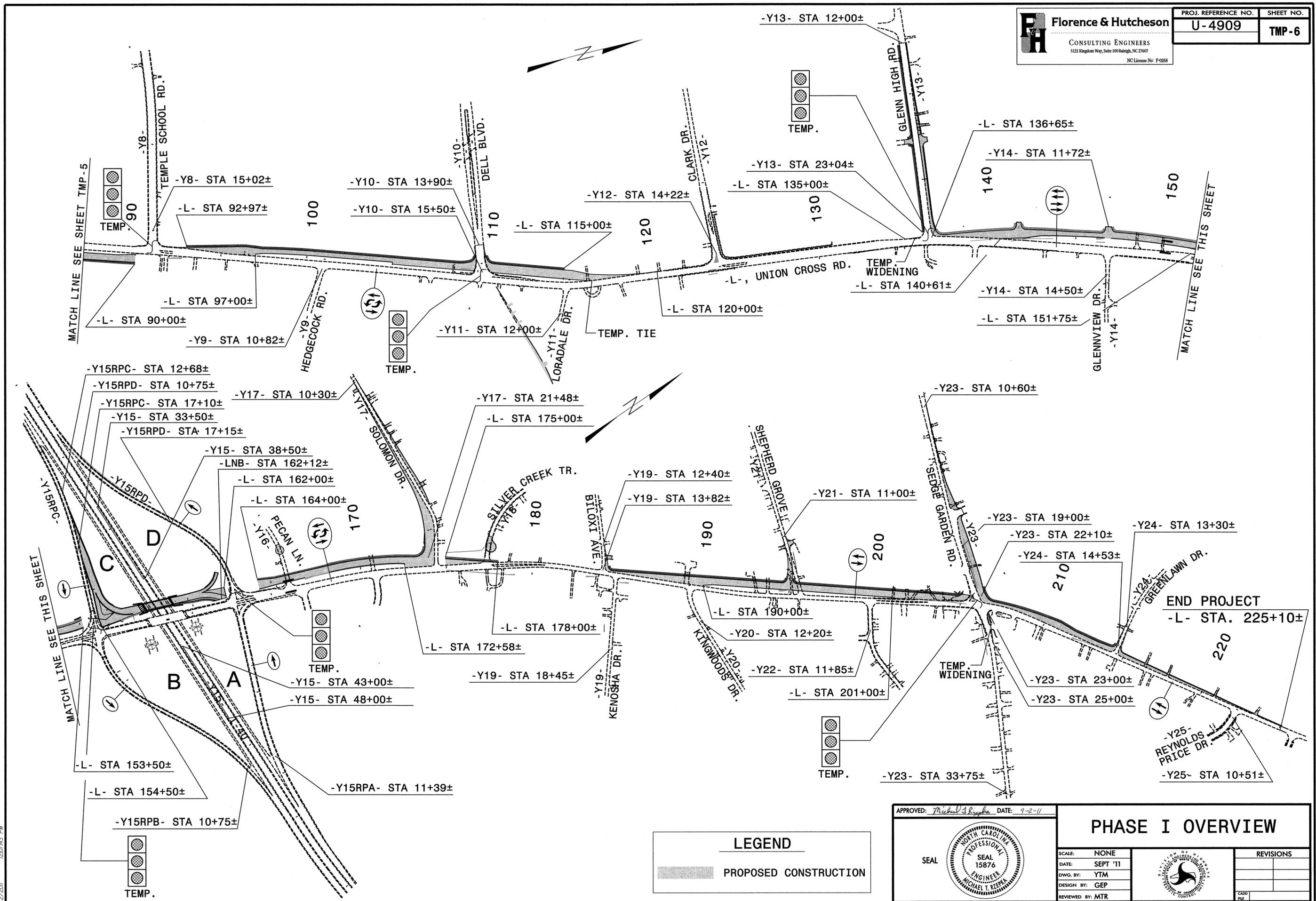
UNCOVER DETOUR SIGNS AND USING TYPE III BARRICADES, CLOSE RAMPS "C" AND "D". CONSTRUCT UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE IN THE FOLLOWING AREAS (SEE SHEETS TMP-44 AND TMP-45):

- L- STA 153+50± TO STA 154+50± LEFT SIDE (INCL. -L_SB- WITHIN THESE LIMITS)
- Y15RPC- STA 12+68± TO STA 17+10±
- Y15SPC- STA 10+00± TO STA 12+20±
- L- STA 162+00± TO STA 164+00± LEFT SIDE (INCL. -L_SB- WITHIN THESE LIMITS)
- Y15RPD- STA 19+17± TO STA 24+50±
- Y15SPD- STA 10+00± TO STA 13+04±

STEP 9c

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1 AND 2 OF 9, IN ONE CONTINUOUS OPERATION INSTALL TEMPORARY PAVEMENT MARKING LINES, MARKERS AND MODIFY EXISTING MARKINGS TO SHIFT UNION CROSS RD. TRAFFIC INTO THE TEMPORARY ALIGNMENT FROM SB -L- STA. 134+14± TO -L- STA. 178+13±. ACTIVATE TEMPORARY TRAFFIC SIGNALS AT THE -Y13-, GLENN HIGH RD. (SR 2679) INTERSECTION, I-40 RAMP "B"/I-40 RAMP "C" INTERSECTION, I-40 RAMP "A"/I-40 RAMP "D" INTERSECTION. (SEE SHEETS TMP-61 THRU TMP-63)

APPROVED: <i>Michael J. Riepha</i> DATE: 9-2-11	PHASE I PHASING CONT.	
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MATCH LINE SEE SHEET TMP-5

MATCH LINE SEE THIS SHEET

MATCH LINE SEE THIS SHEET

END PROJECT
 -L- STA. 225+10±

LEGEND

PROPOSED CONSTRUCTION

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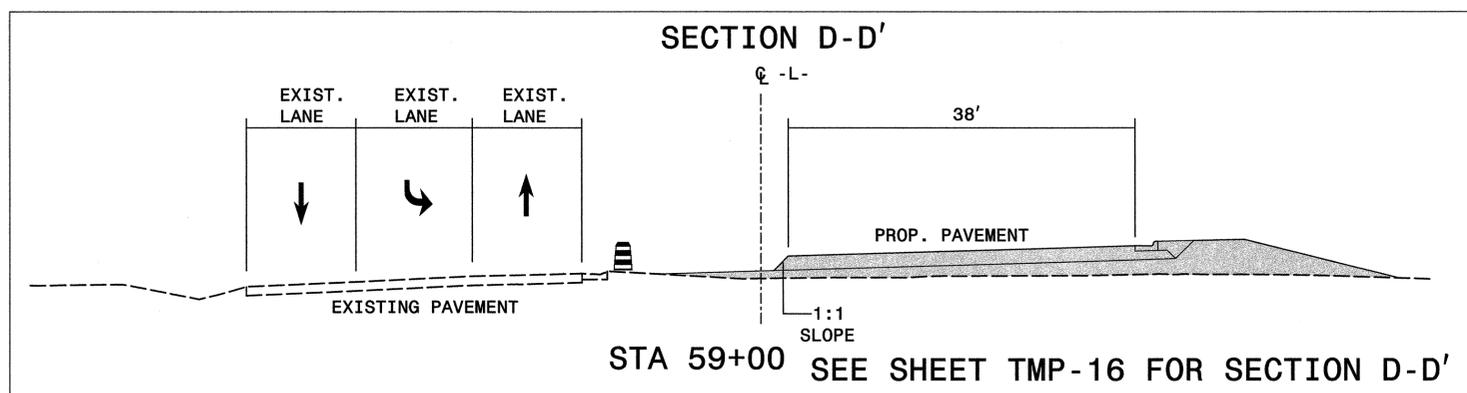
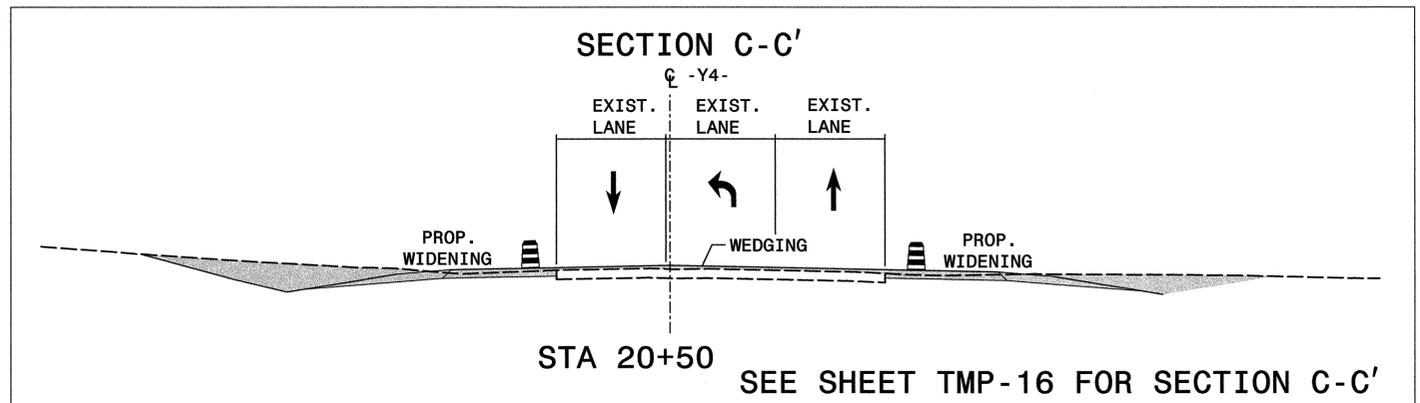
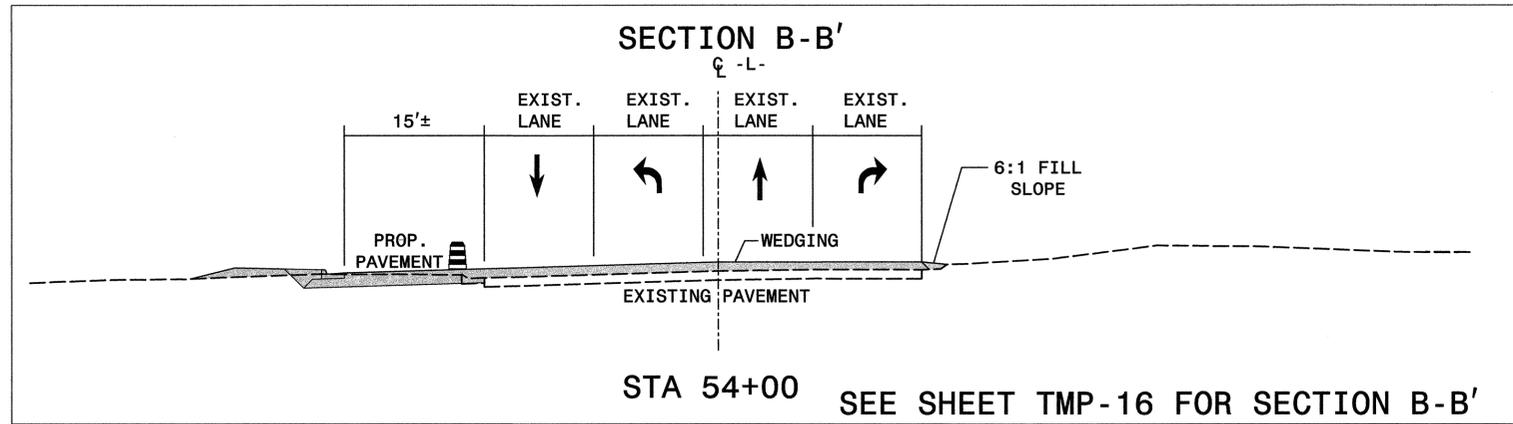
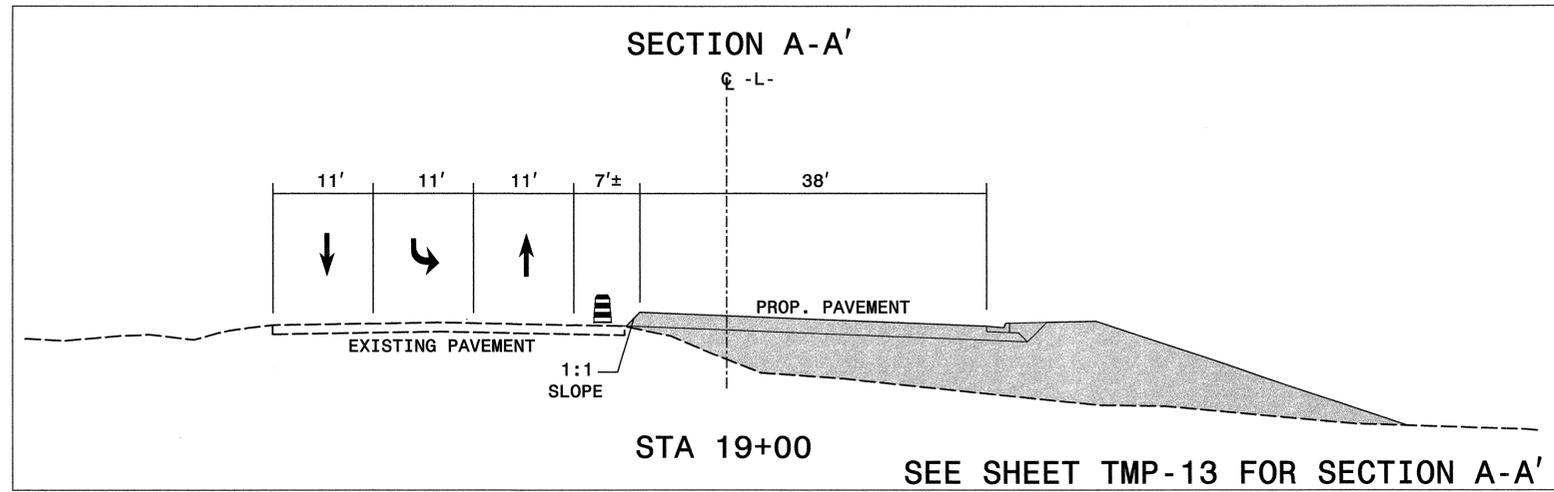
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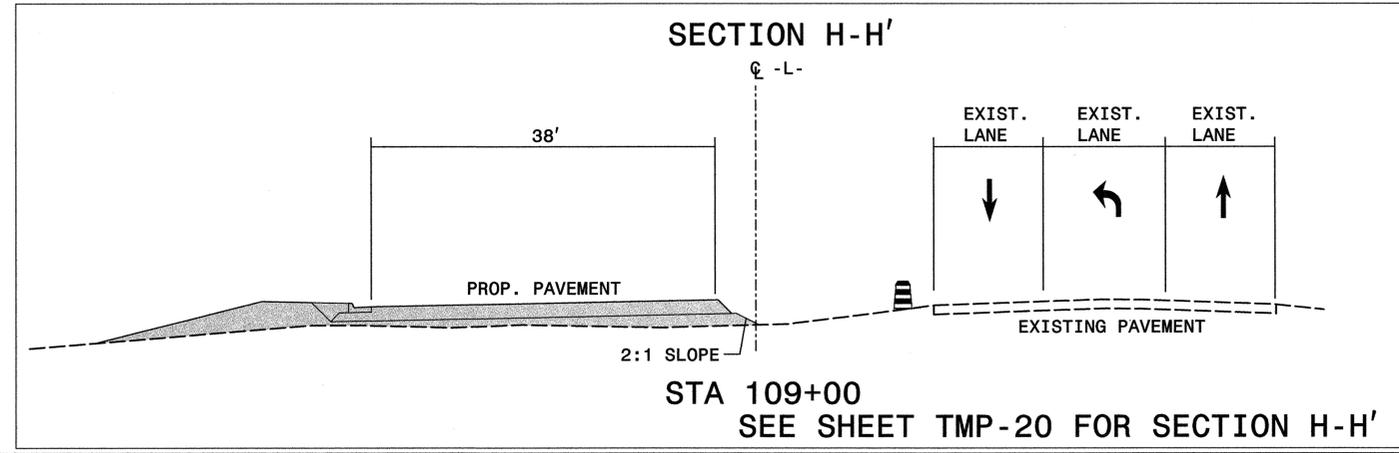
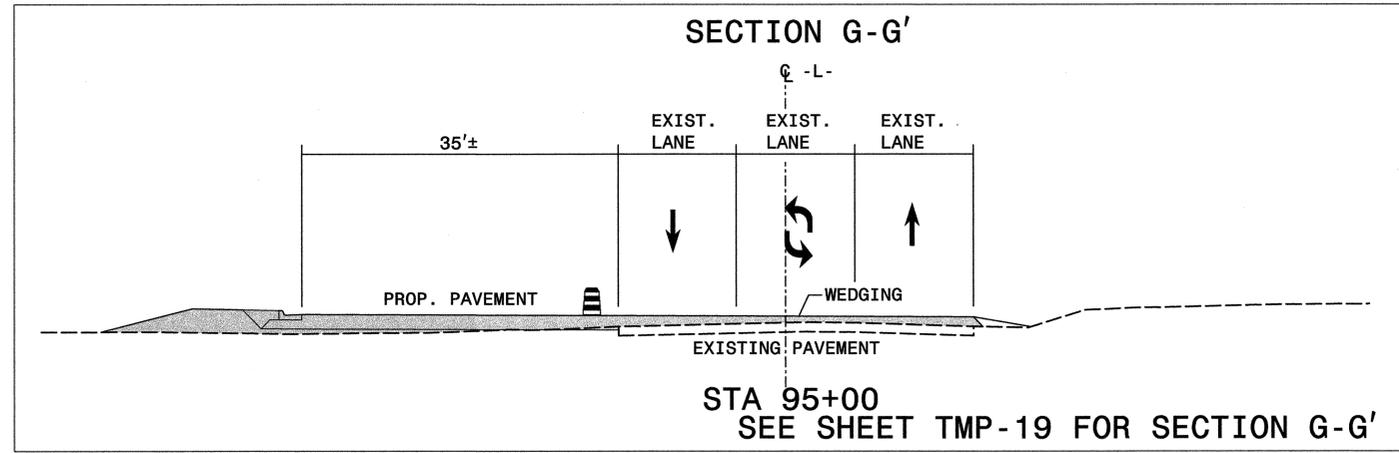
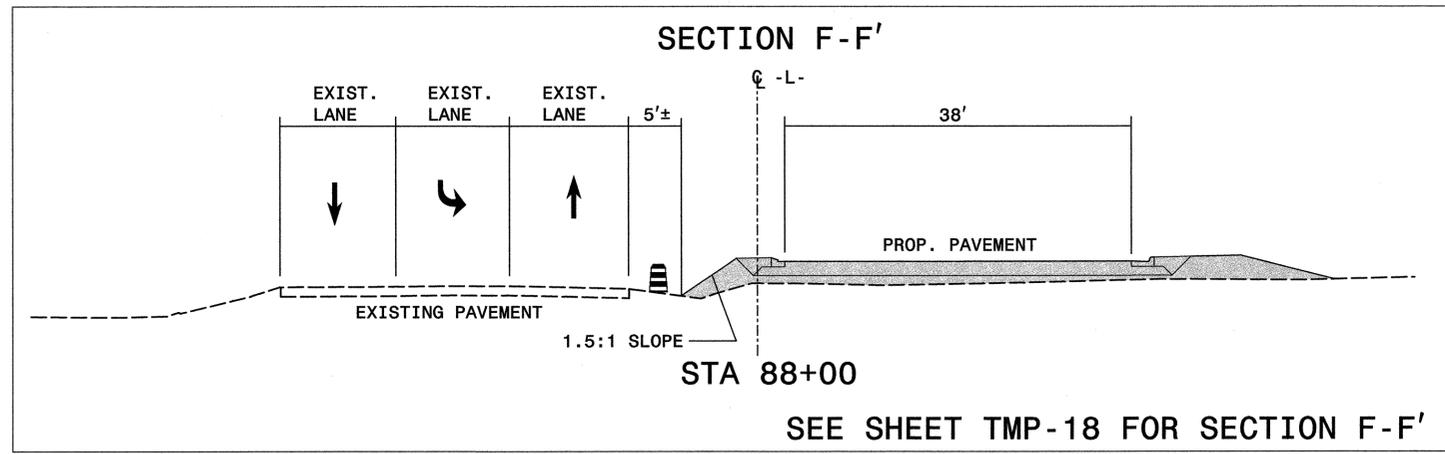
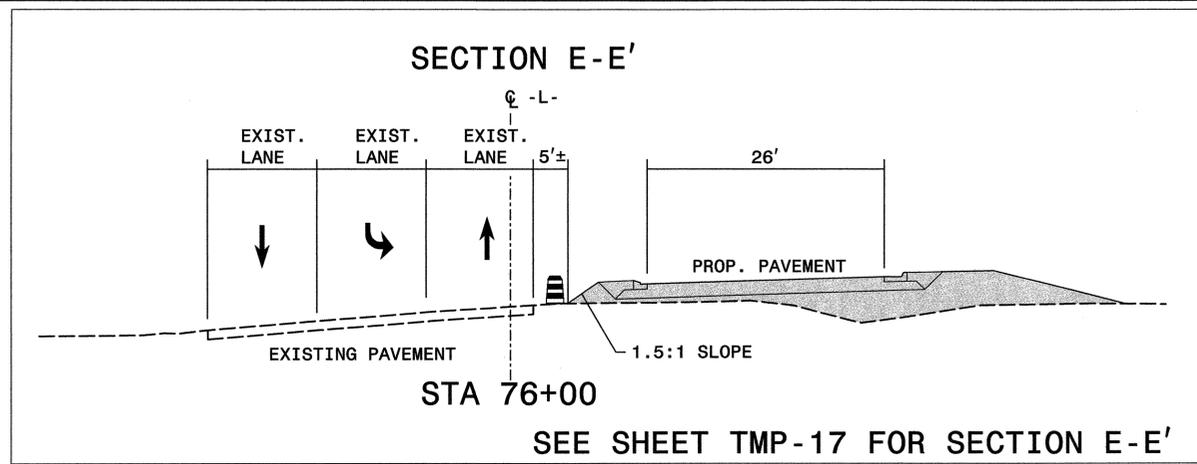
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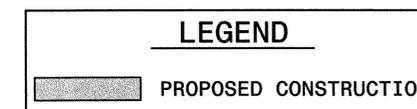
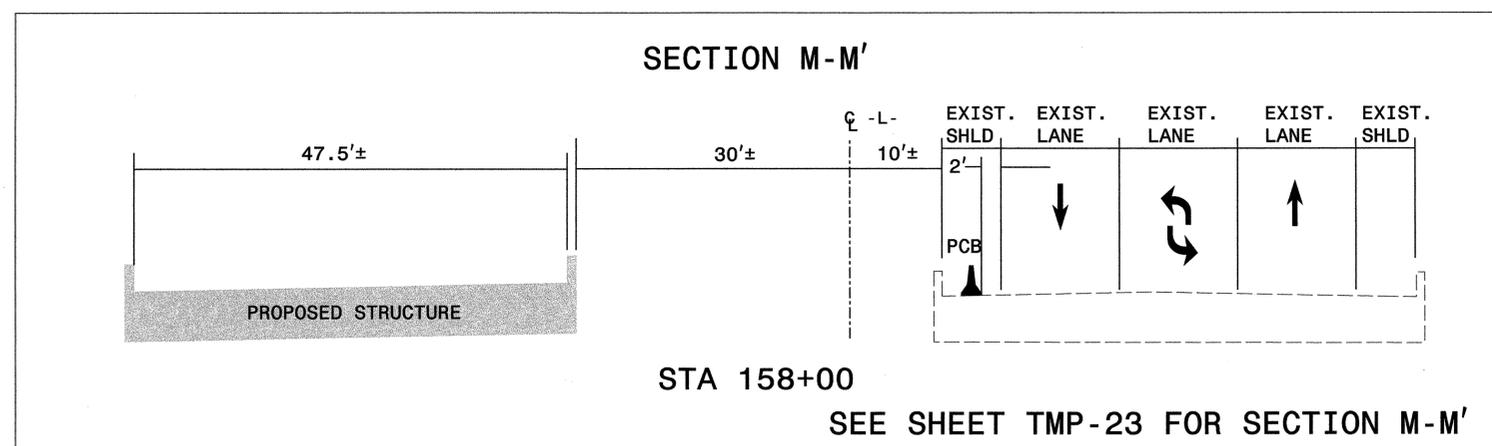
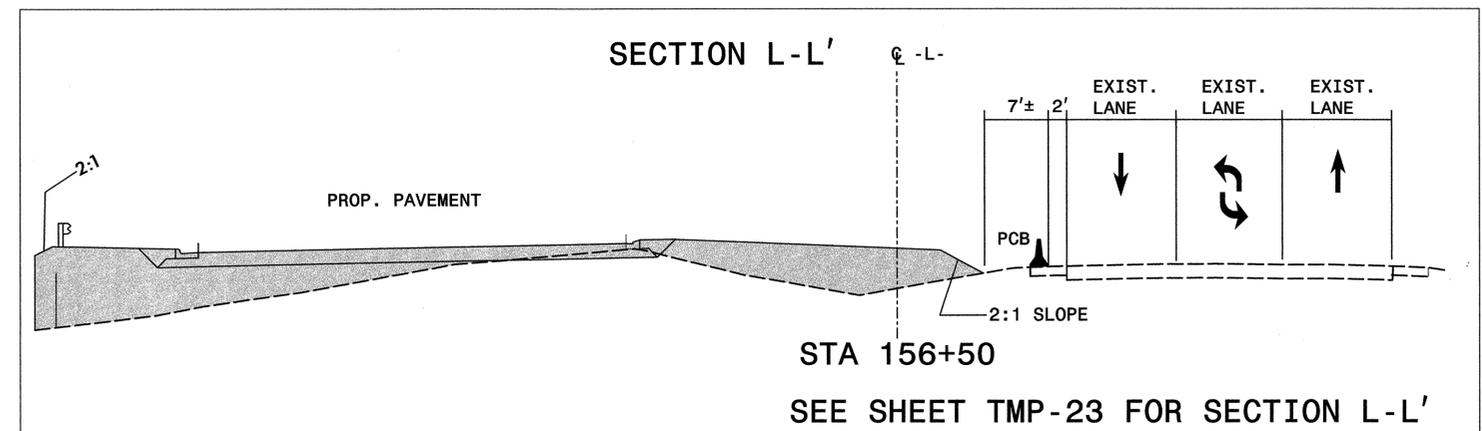
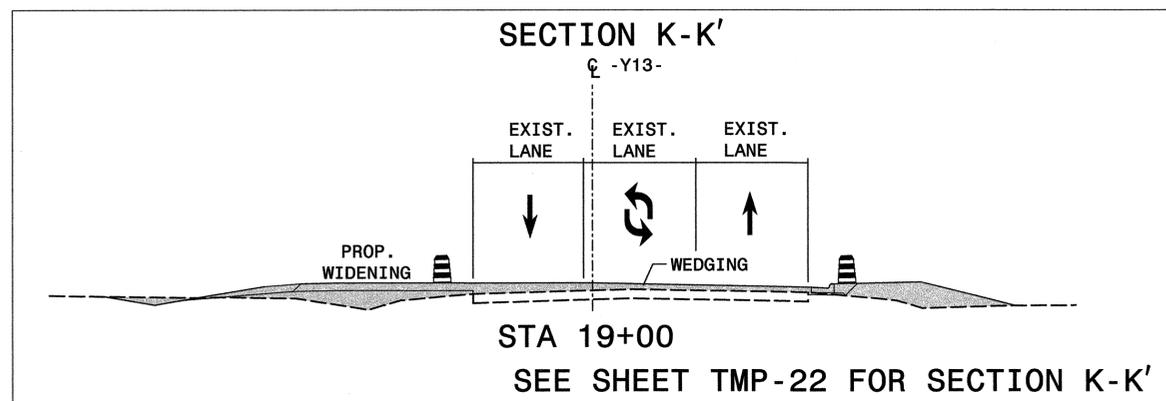
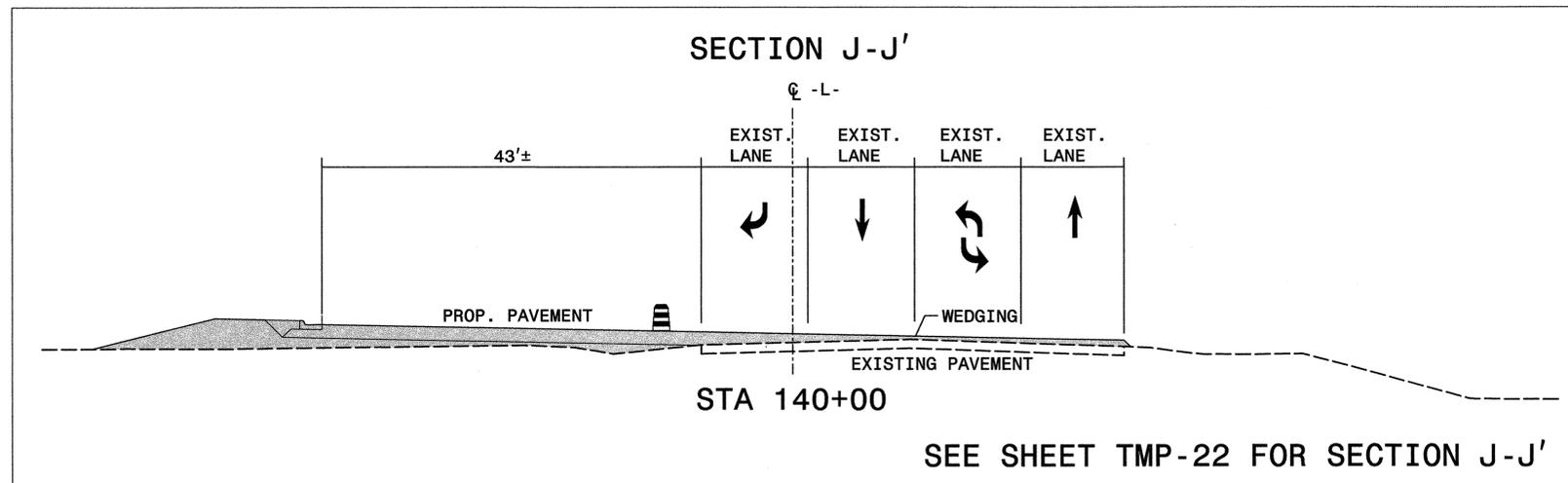
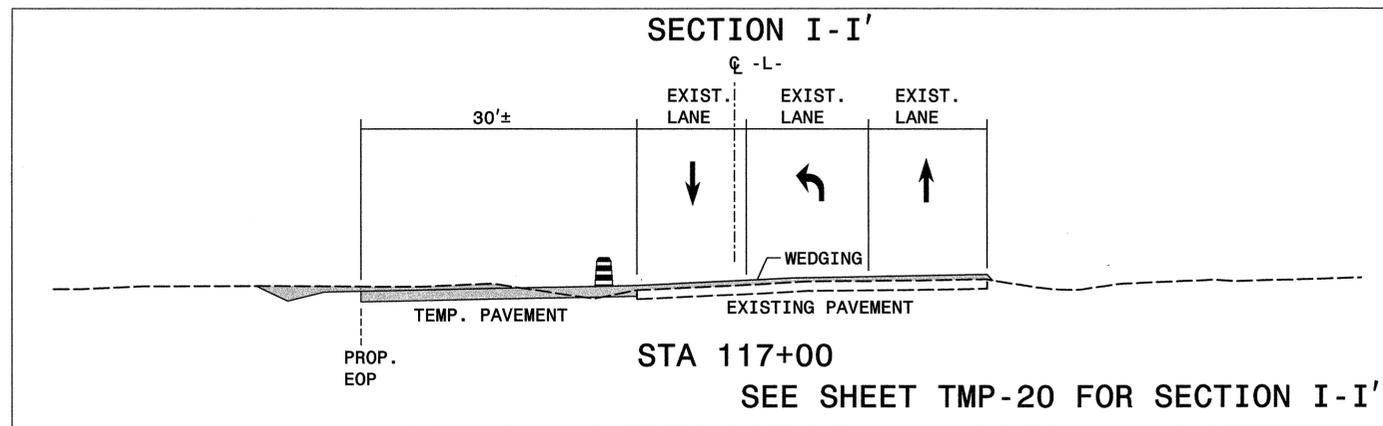
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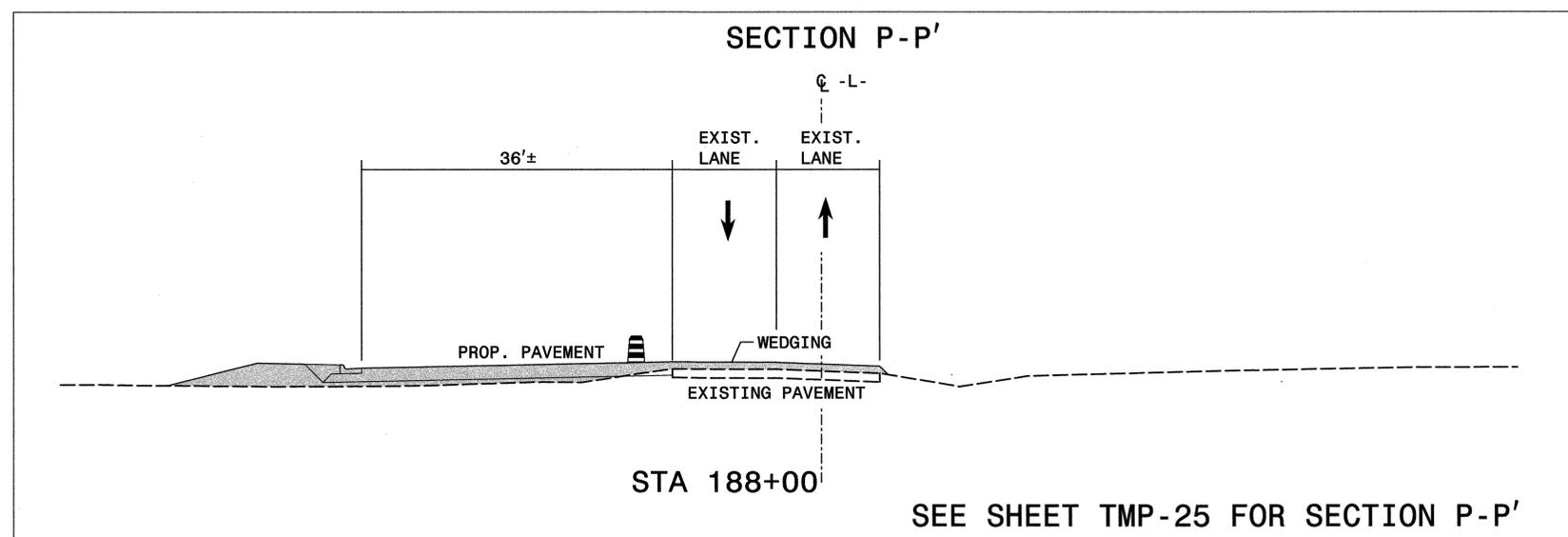
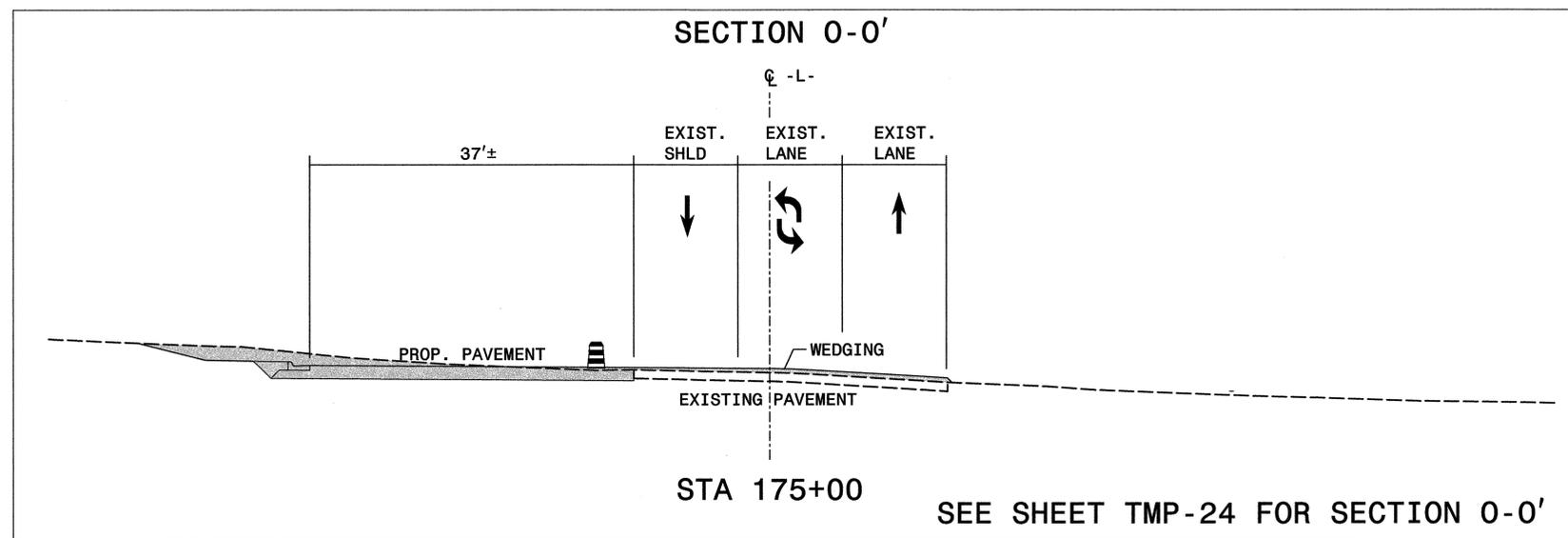
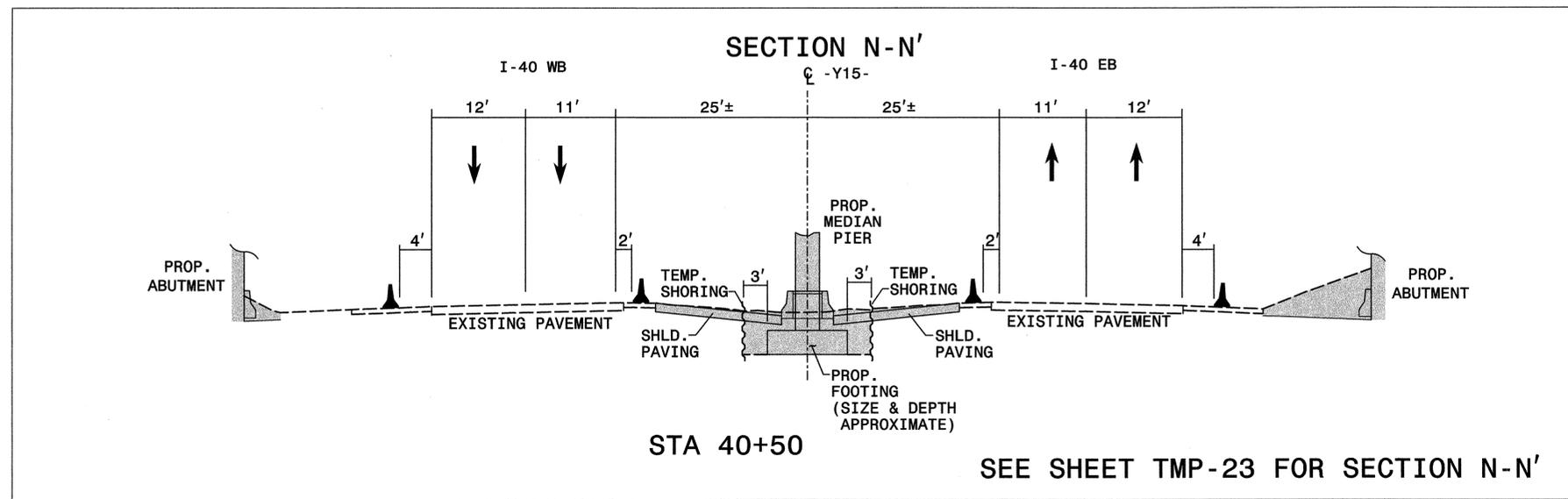


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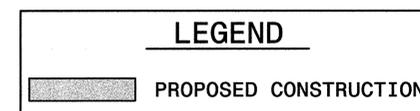
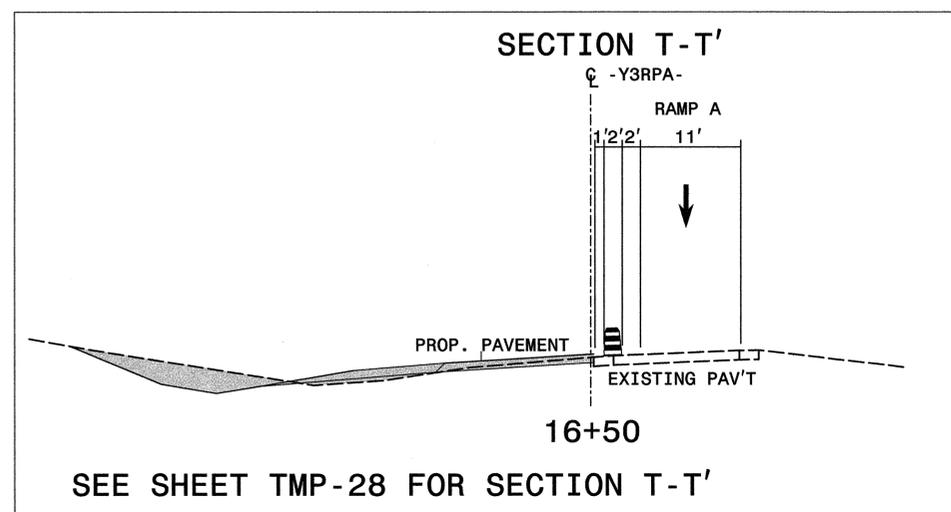
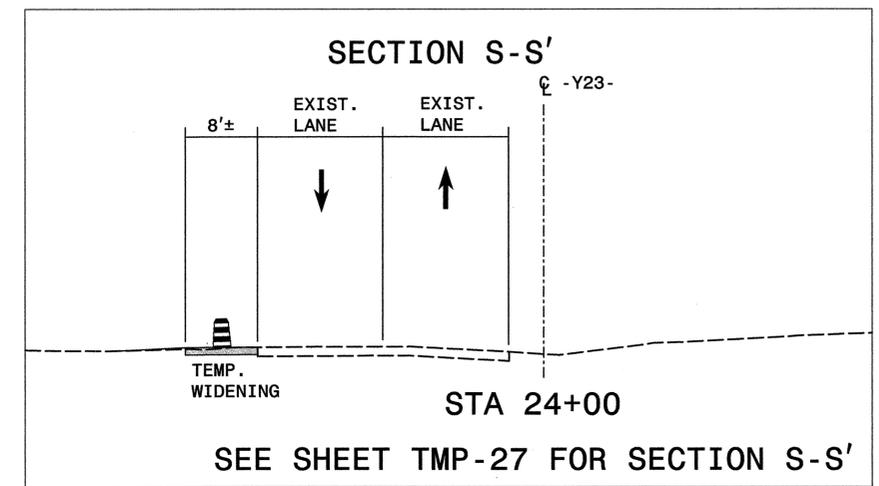
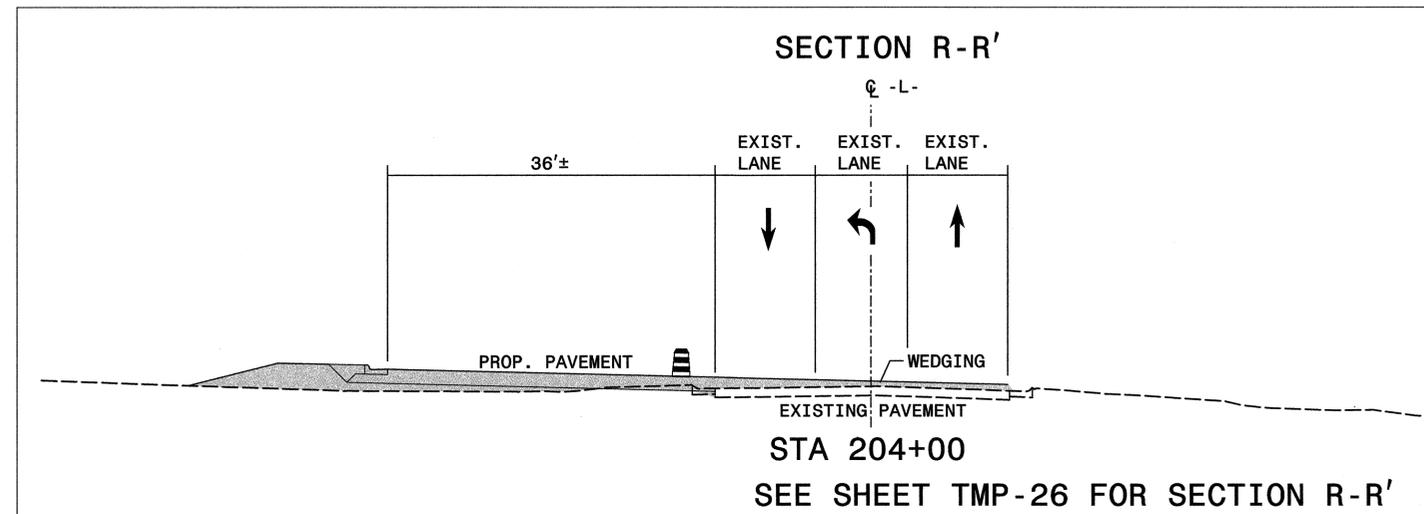
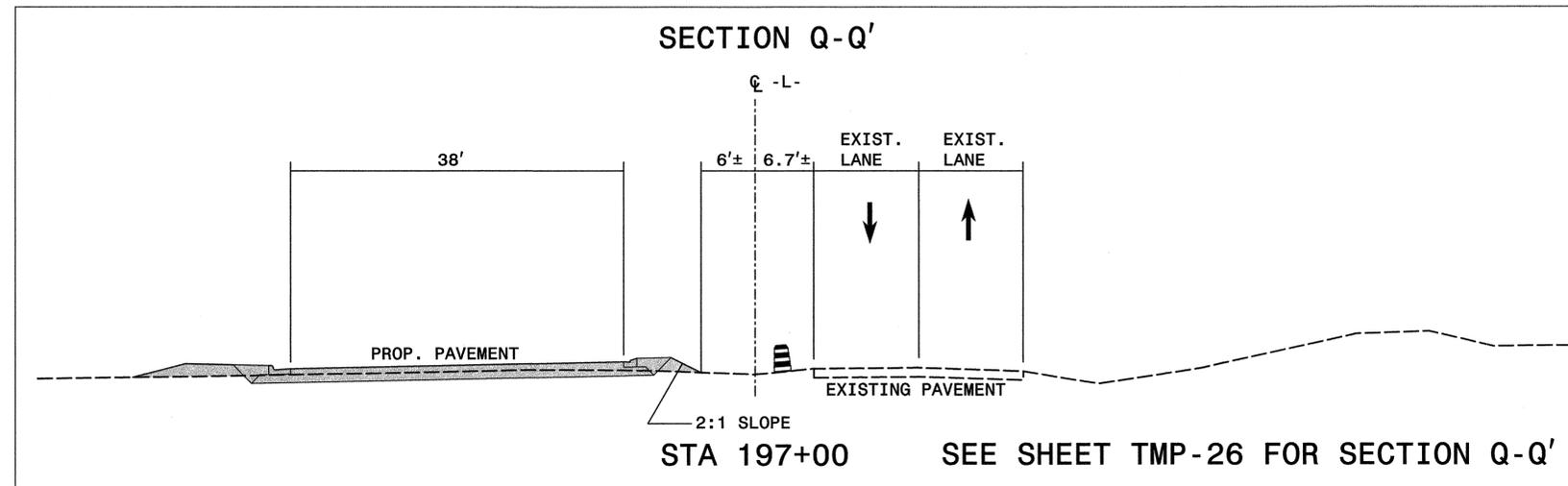
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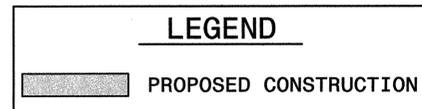
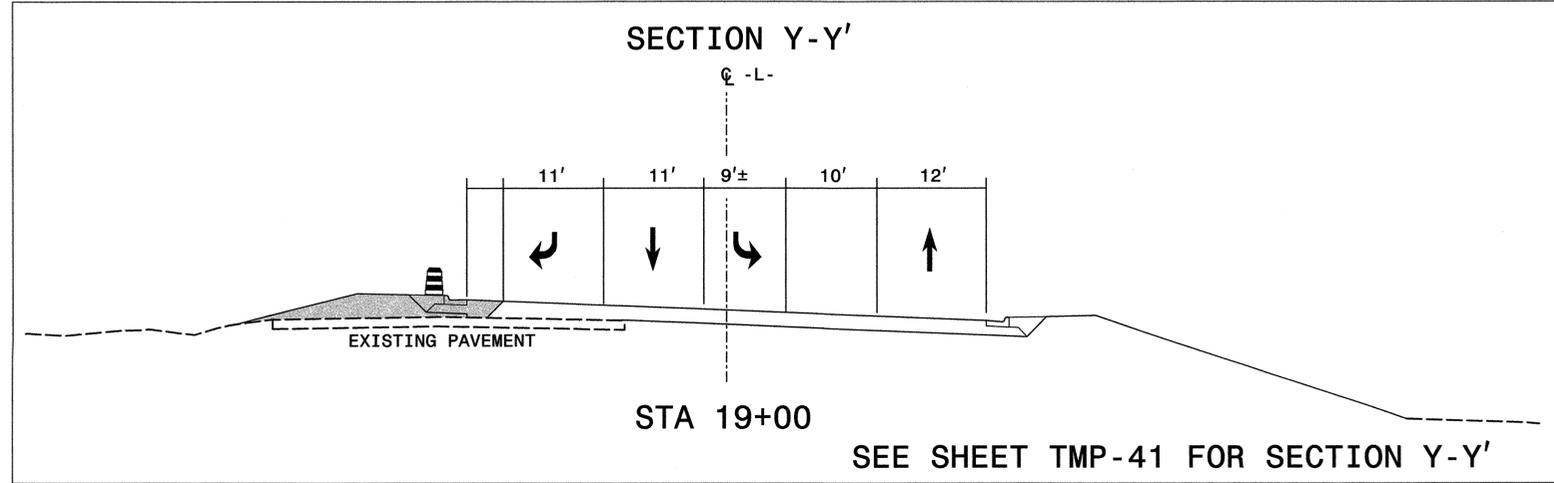
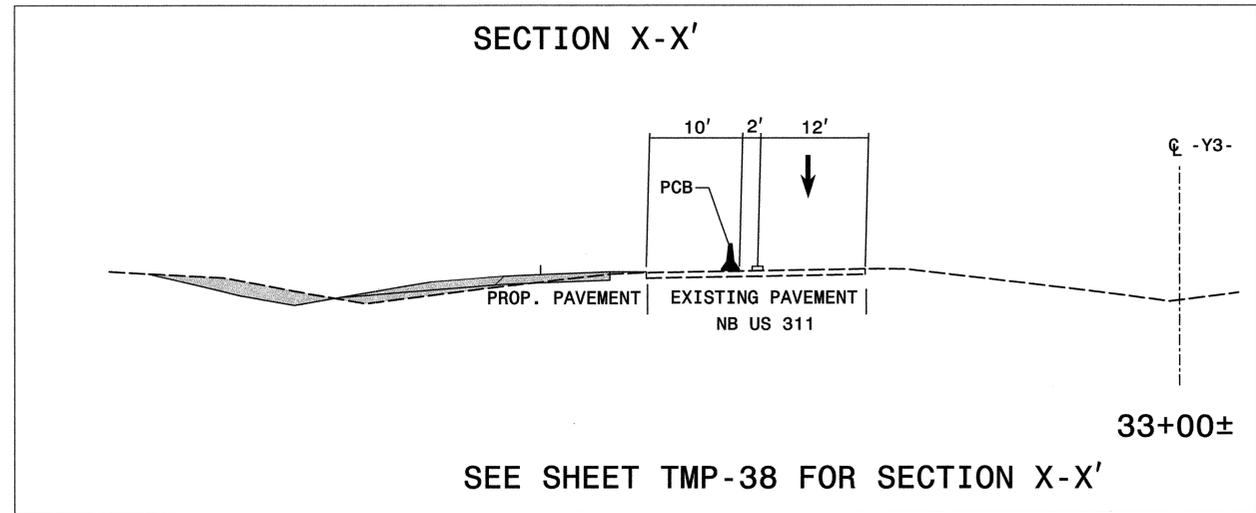
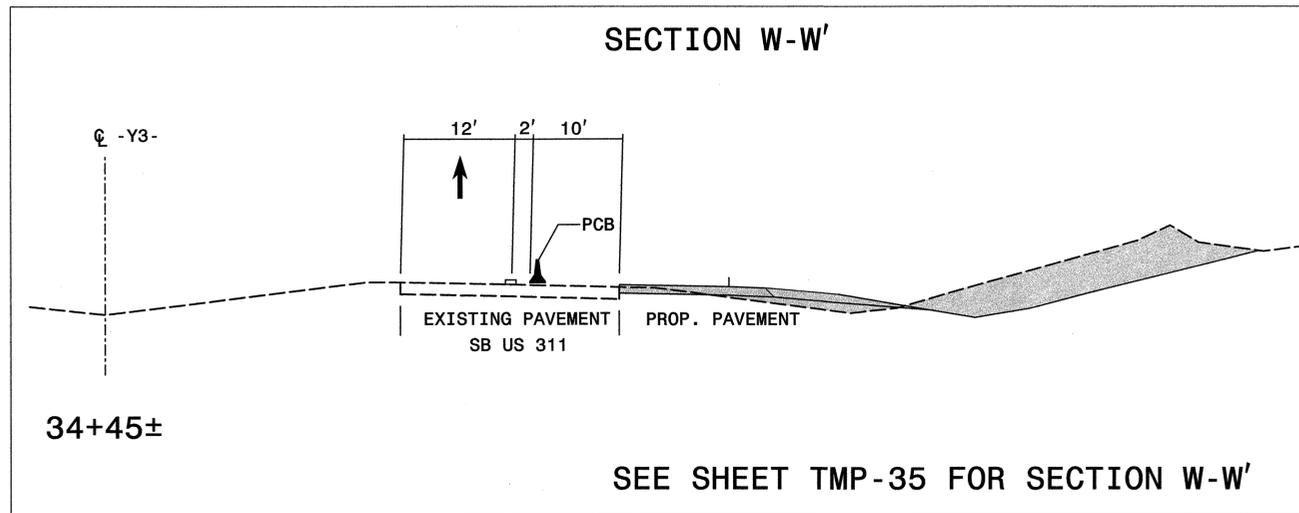
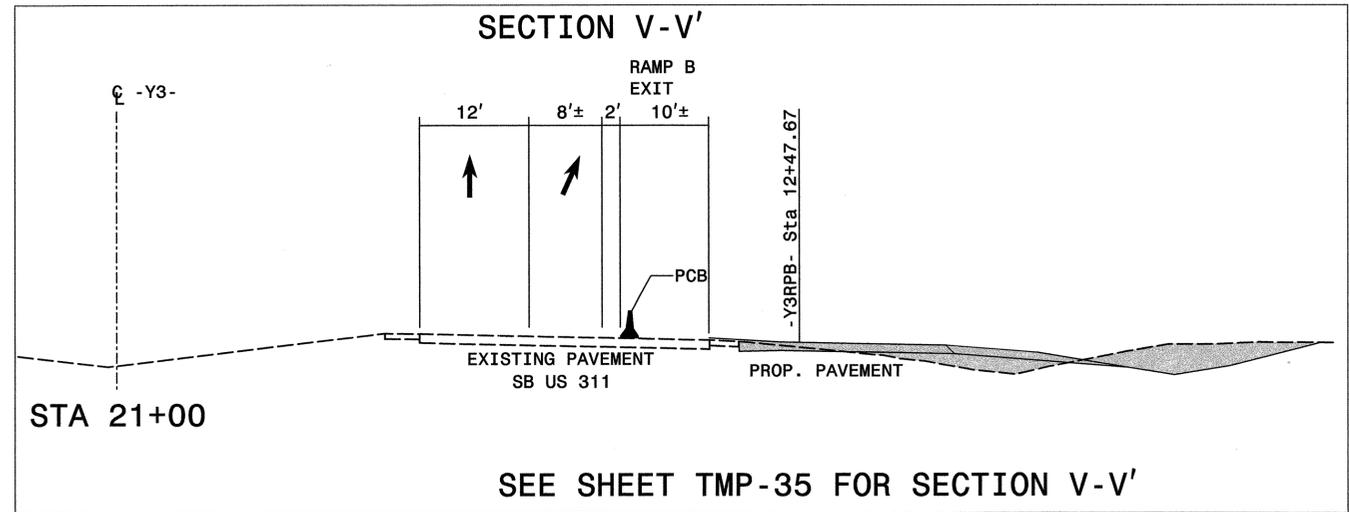
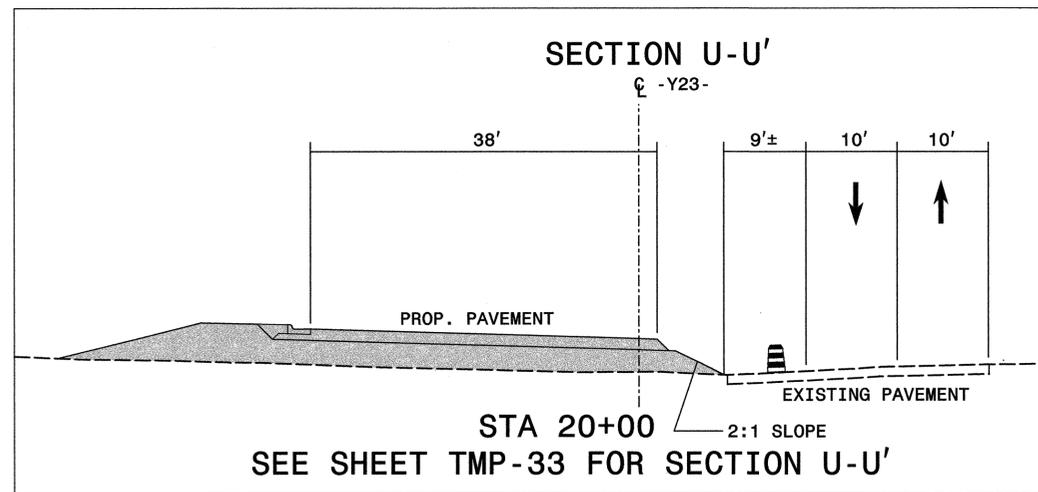
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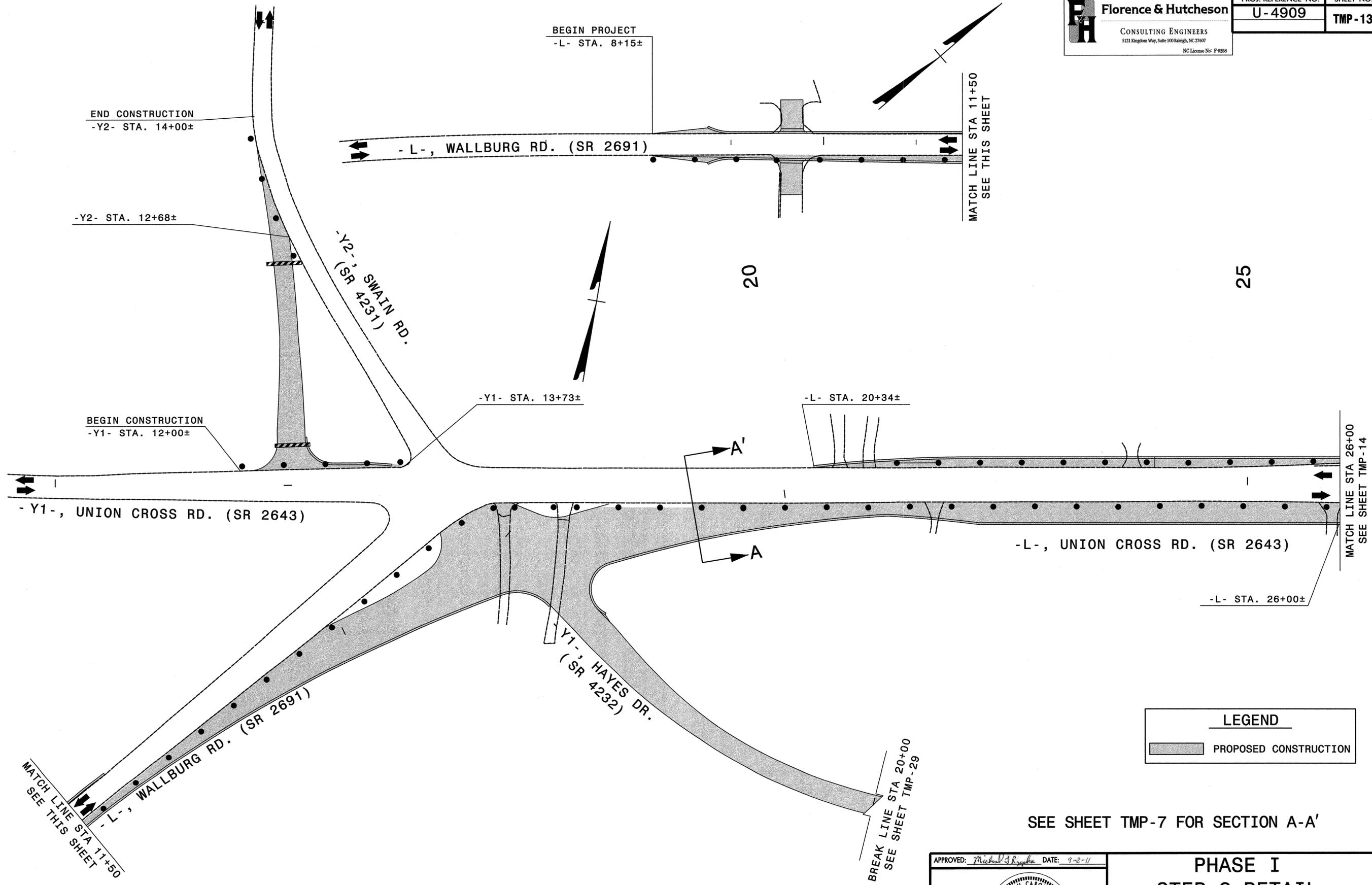
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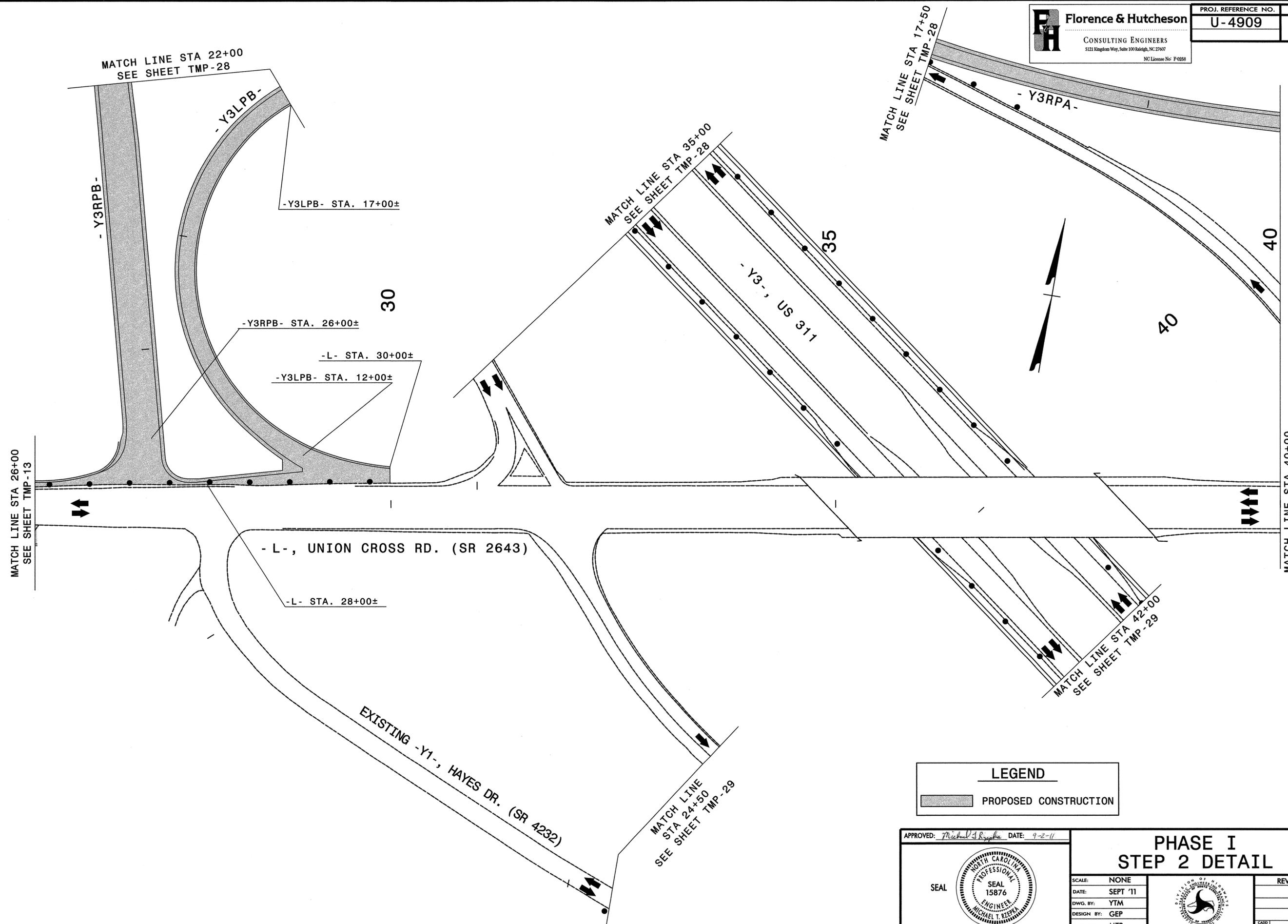
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PROFESSIONAL ENGINEER
 SEAL 15876
 MICHAEL T. RZEPKA

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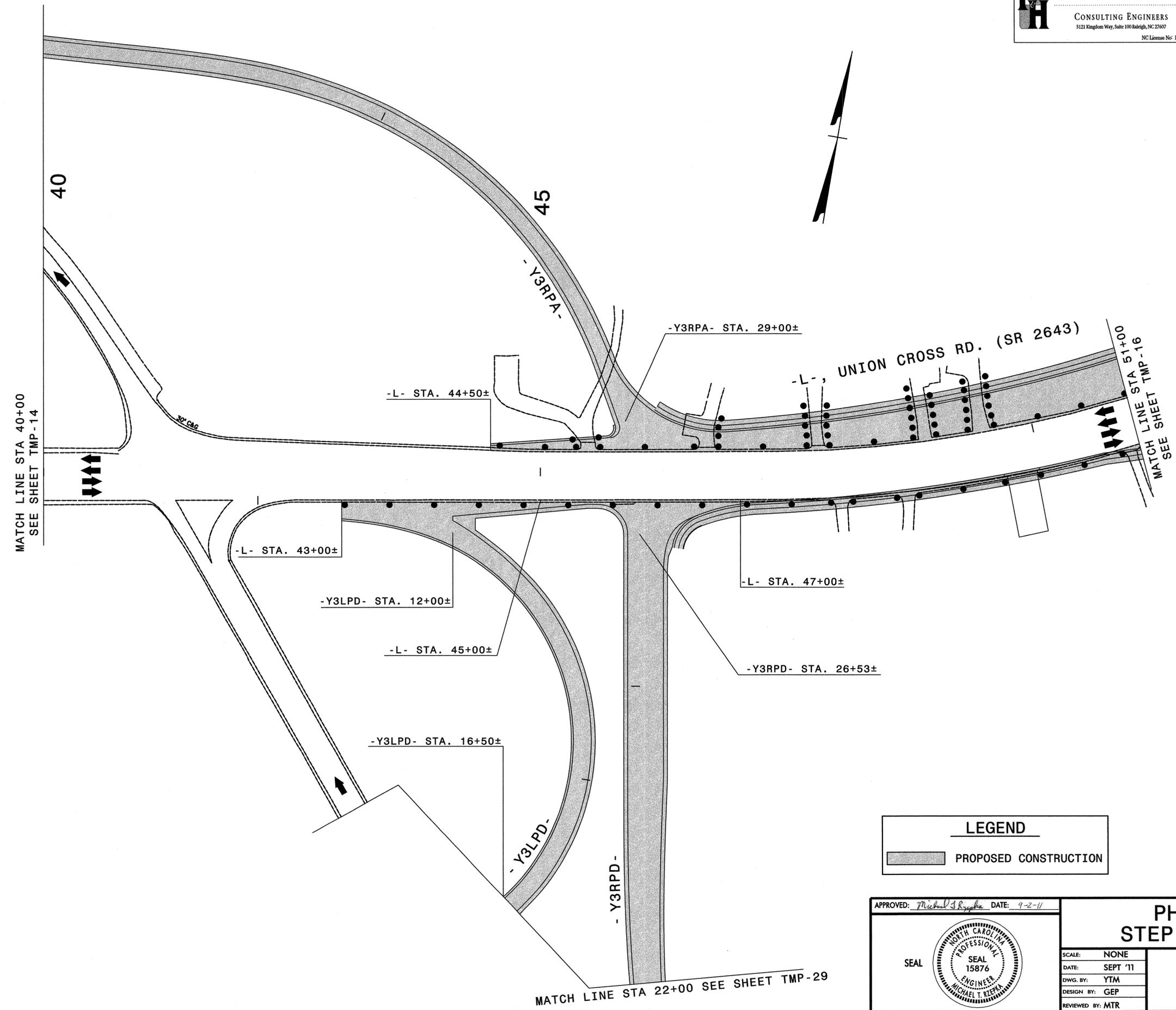
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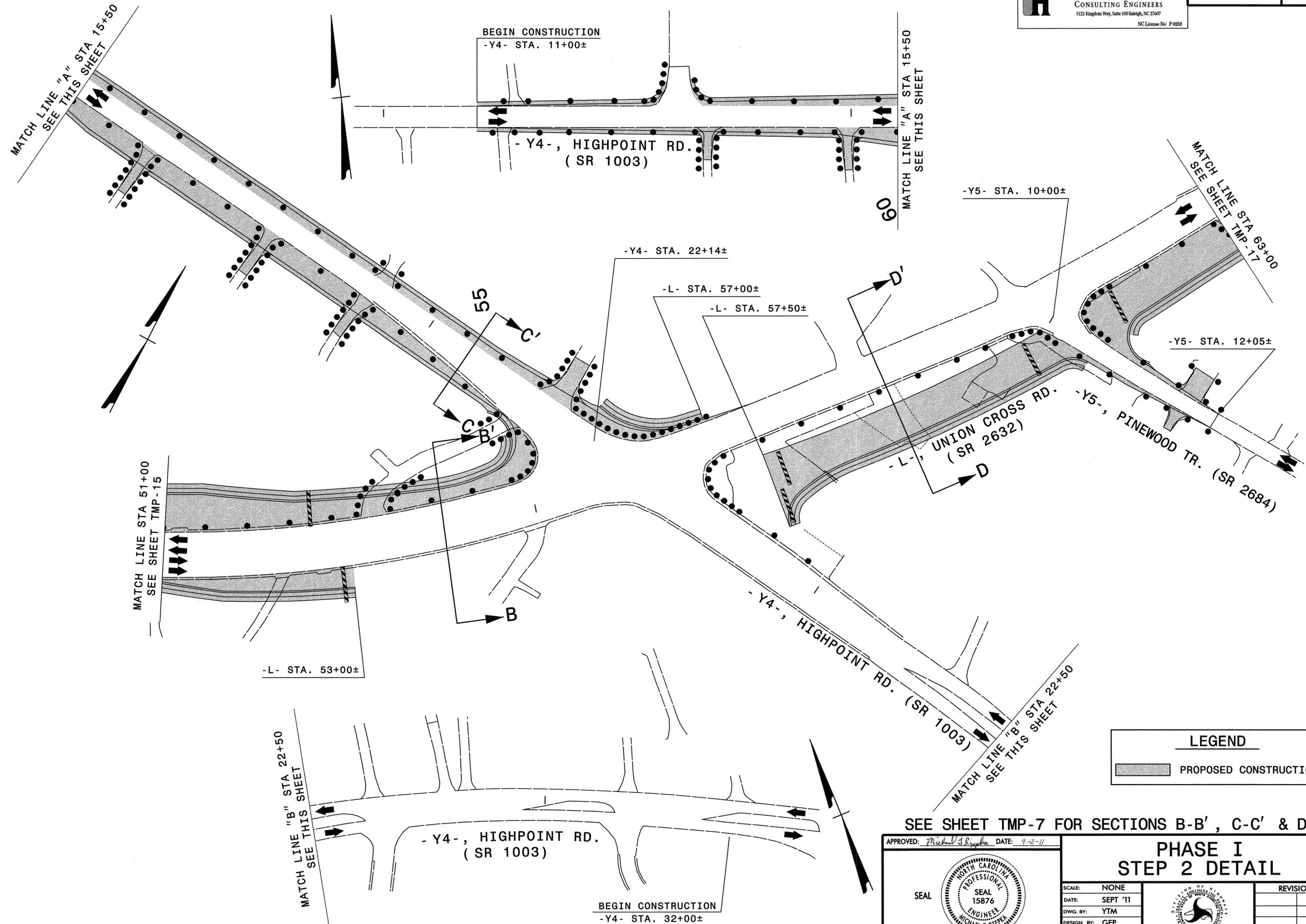
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STEP 2 DETAIL**

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SEE SHEET TMP-7 FOR SECTIONS B-B', C-C' & D-D'

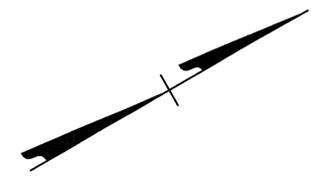
APPROVED: *Michael T. Rzepka* DATE: 9-2-11

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**PHASE I
STEP 2 DETAIL**

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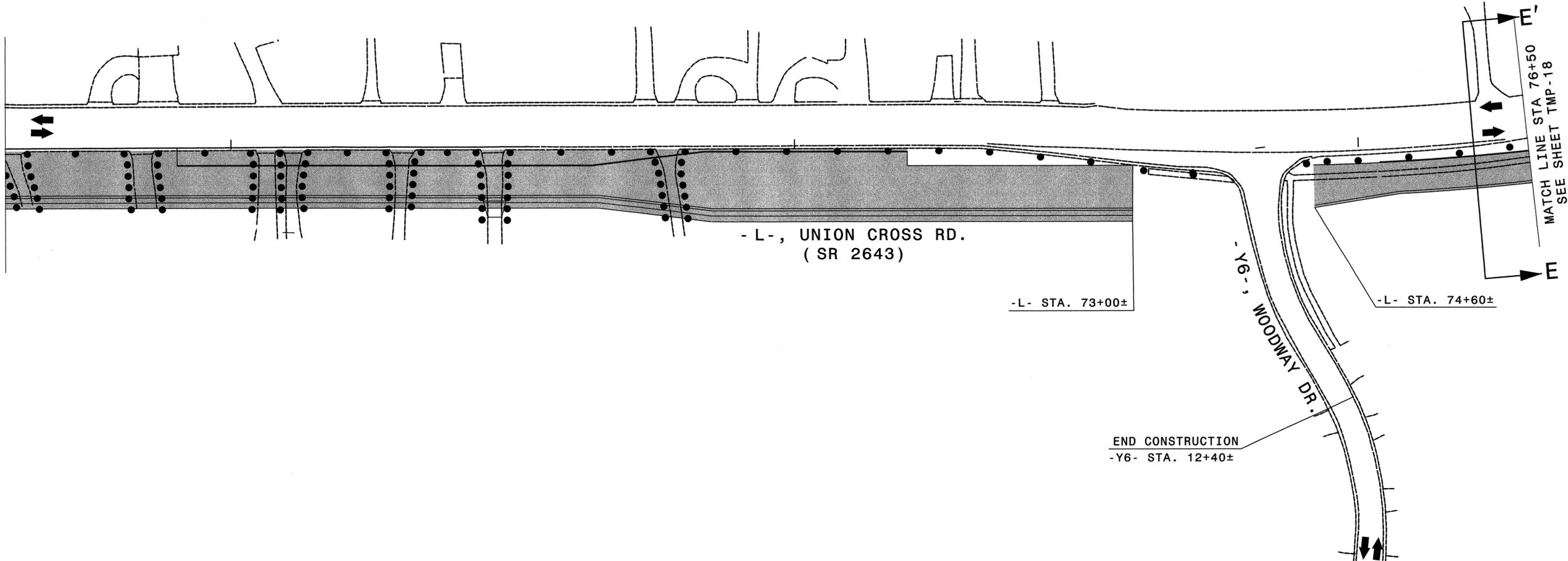


65

70

75

MATCH LINE STA 63+00
SEE SHEET TMP-16



SEE SHEET TMP-8 FOR SECTION E-E'

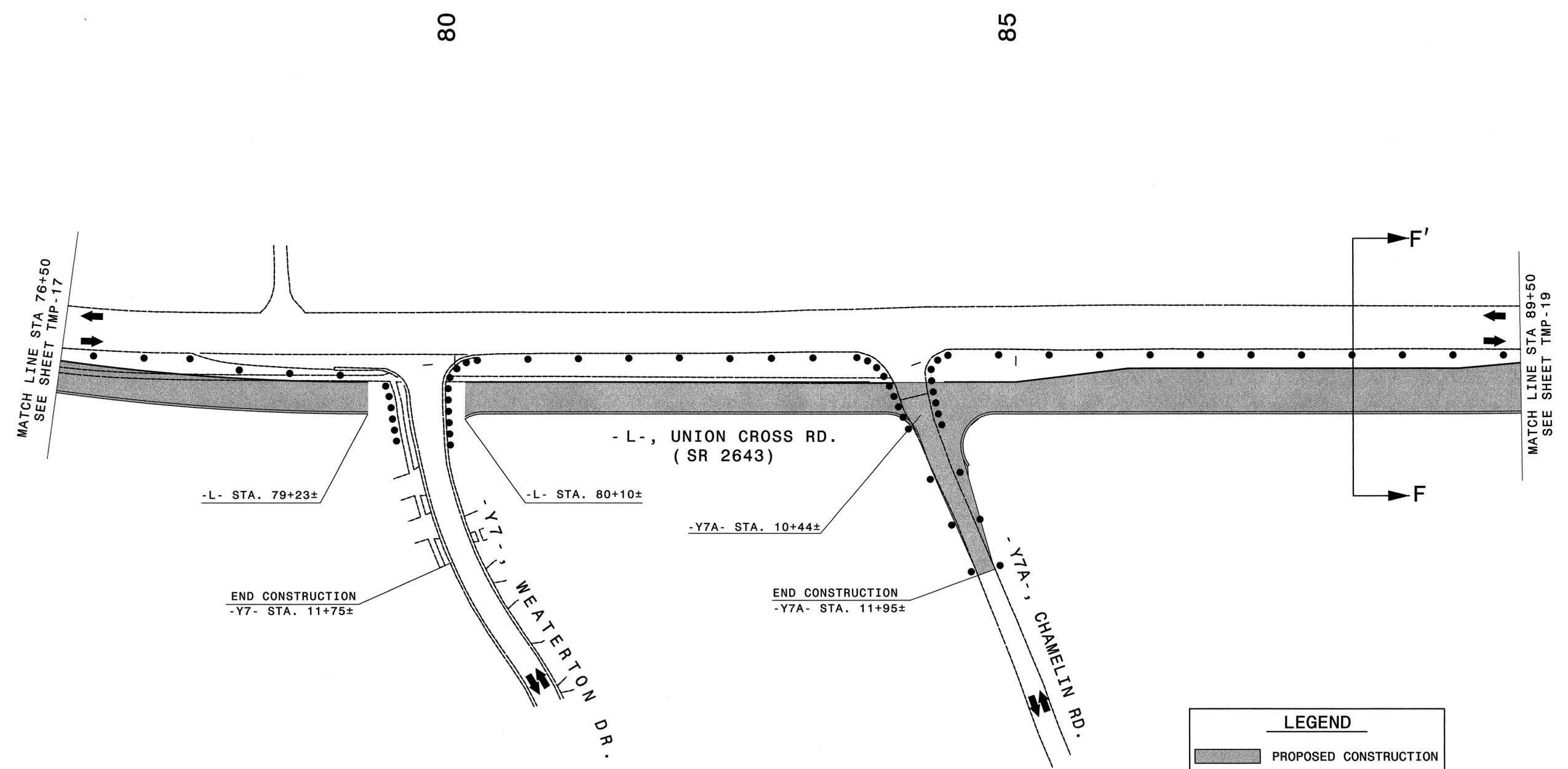
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APPROVED: *Michael T. Rieppel* DATE: 9-2-11

SEAL

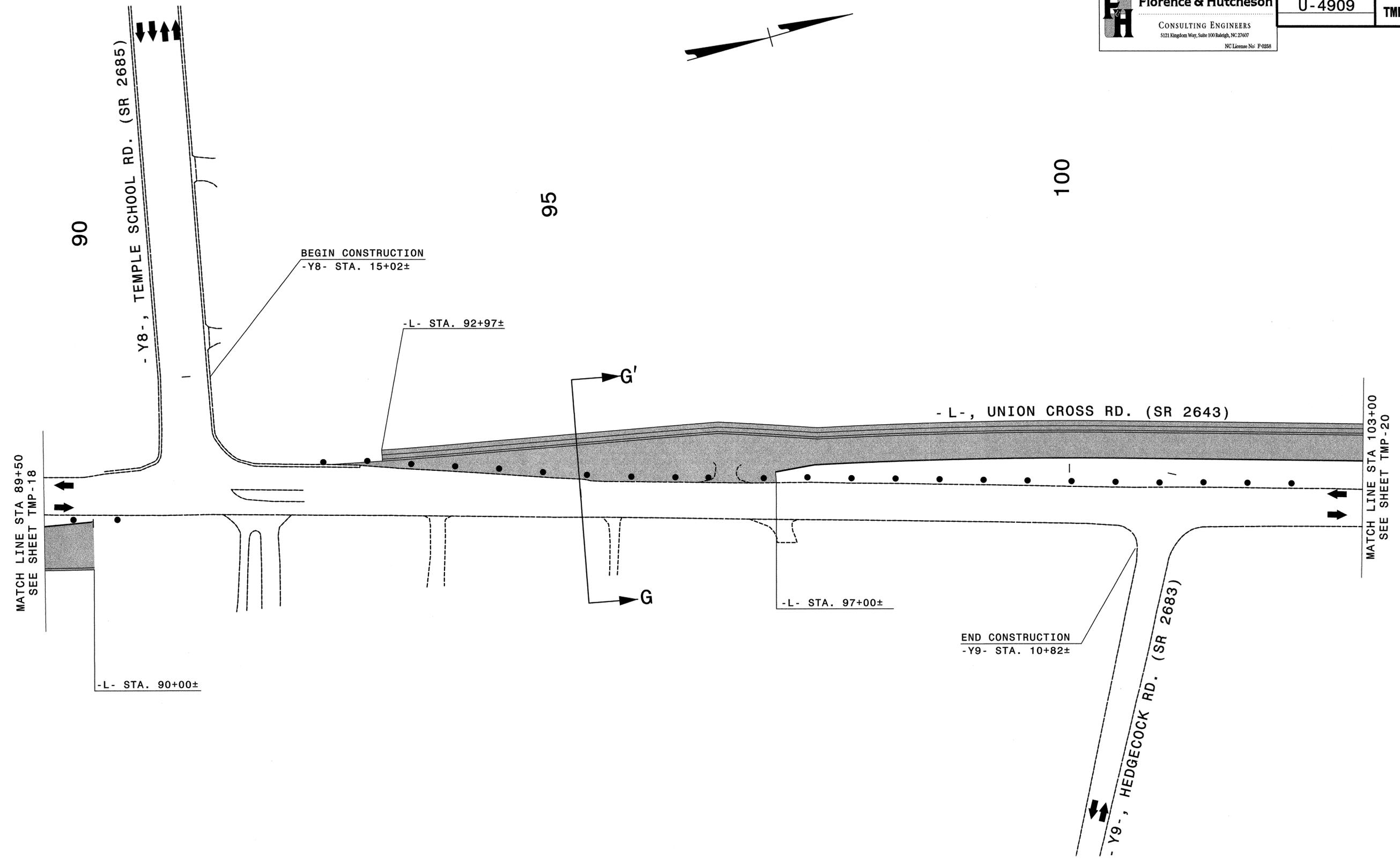
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STEP 2 DETAIL**

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REVIEWED BY: MTR		CADD FILE



SEE SHEET TMP-8 FOR SECTION F-F'

APPROVED: <i>Michael T. Kierka</i> DATE: 9-2-11	PHASE I STEP 2 DETAIL							
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	DATE: SEPT '11							
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SEE SHEET TMP-8 FOR SECTION G-G'

LEGEND

PROPOSED CONSTRUCTION

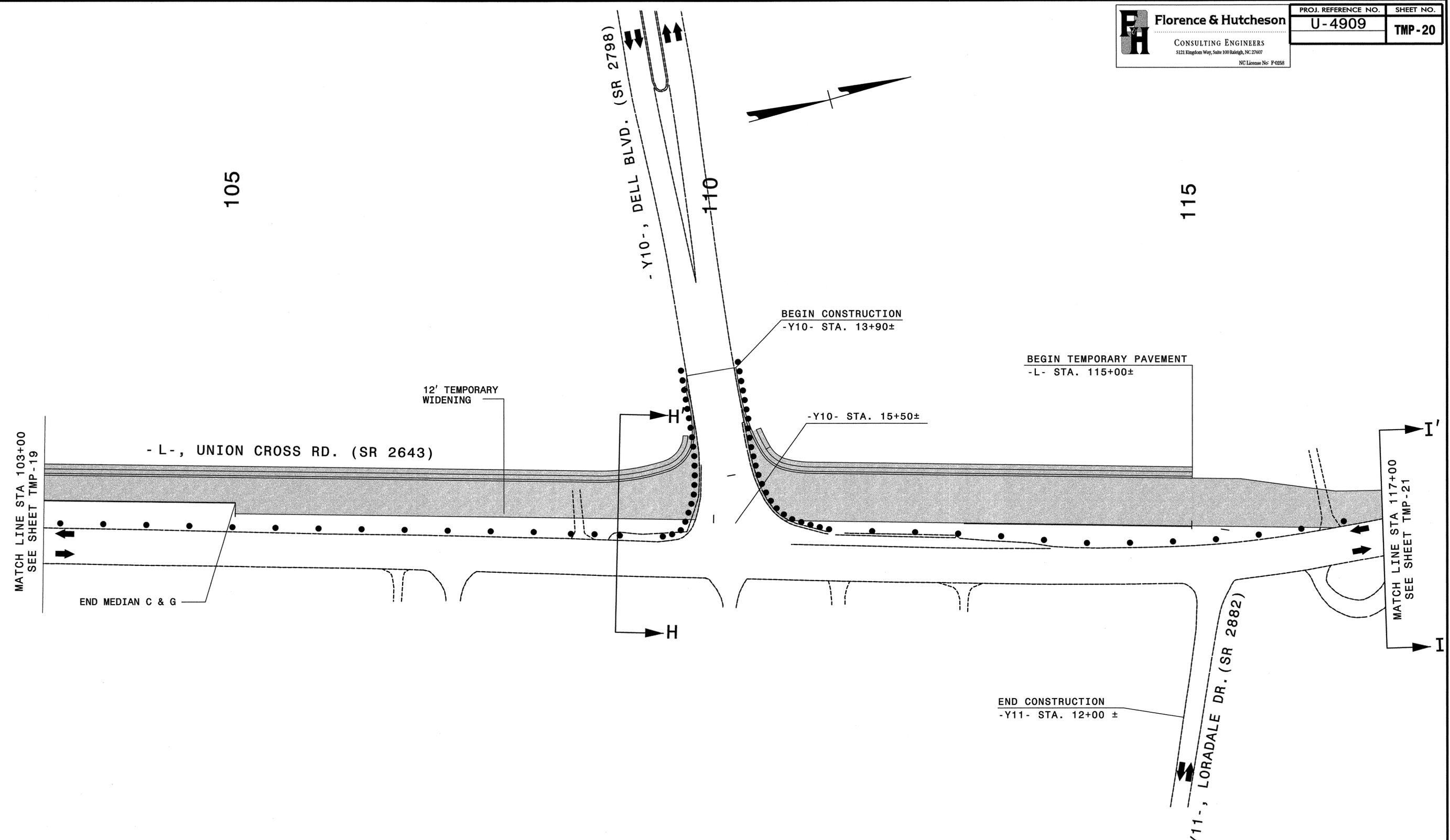
APPROVED: *Michael T. Ziemke* DATE: 9-2-11

SEAL

**PHASE I
STEP 2 DETAIL**

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DATE: SEPT '11		
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MATCH LINE STA 103+00
SEE SHEET TMP-19

MATCH LINE STA 117+00
SEE SHEET TMP-21

SEE SHEET TMP-8 FOR SECTIONS H-H'
SEE SHEET TMP-9 FOR SECTIONS I-I'

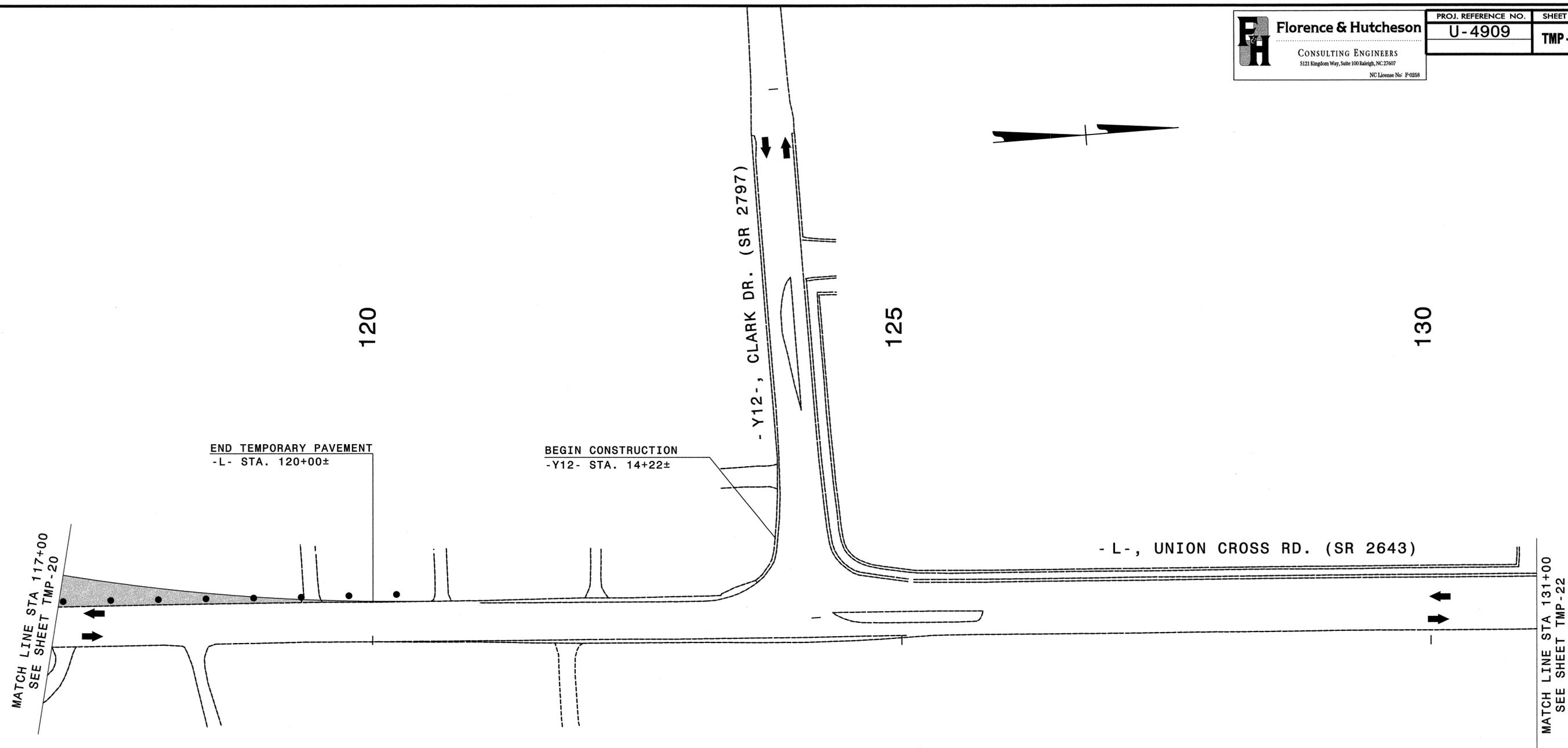
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APPROVED: *Michael T. Zyzanski* DATE: 9-2-11

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LEGEND

PROPOSED CONSTRUCTION

APPROVED: *Michael T. Rzepka* DATE: 9-2-11

SEAL

**PHASE I
STEP 2 DETAIL**

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REVIEWED BY: MTR		

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150



BEGIN CONSTRUCTION
 -Y14- STA. 11+72±

BEGIN CONSTRUCTION
 -Y13- STA. 12+00±

MATCH LINE STA 17+00
 SEE THIS SHEET

MATCH LINE STA 145+00
 SEE THIS SHEET

- L-, UNION CROSS RD.
 (SR 2643)

MATCH LINE STA 151+00
 SEE SHEET TMP-23

-Y13-, GLENN HIGH RD. (SR 2679)

135

-Y13-, GLENN HIGH RD. (SR 2679)

-Y14-,
 GLENNVIEW DR.
 (SR 2837)

MATCH LINE STA 17+00
 SEE THIS SHEET

-Y13- STA. 23+04±

BEGIN TEMP. WIDENING
 -L- STA. 135+00±

-L- STA. 136+65±

- L-, UNION CROSS RD. (SR 2643)

MATCH LINE STA 131+00
 SEE SHEET TMP-21

-L- STA. 140+61±

MATCH LINE STA 145+00
 SEE THIS SHEET

SEE SHEET TMP-9 FOR SECTIONS J-J' & K-K'

LEGEND

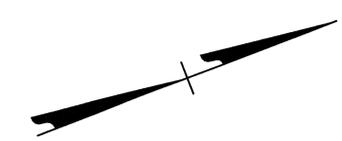
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APPROVED: *Michael T. Reppke* DATE: 9-2-11

SEAL

**PHASE I
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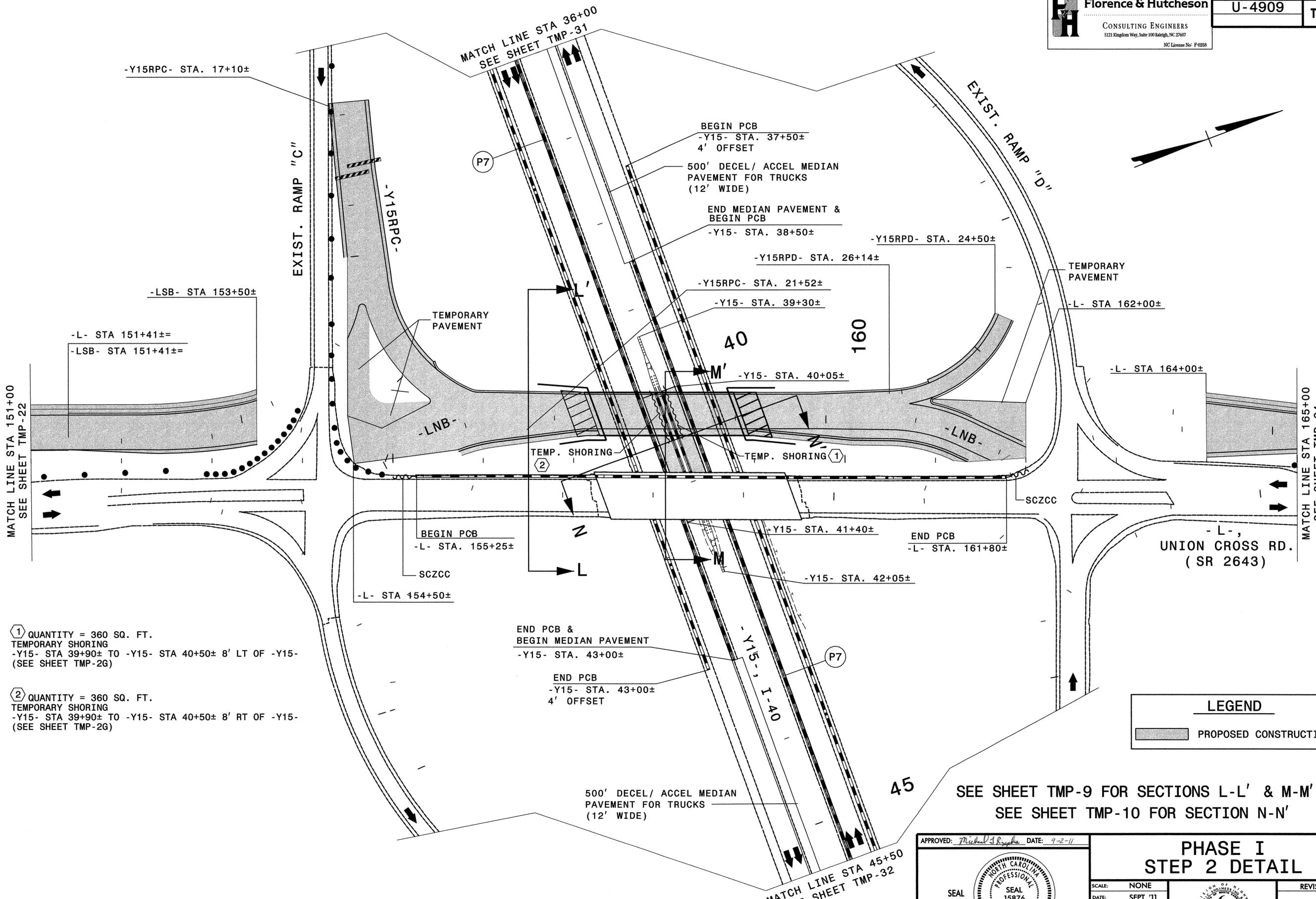


MATCH LINE STA 151+00
SEE SHEET TMP-22

MATCH LINE STA 165+00
SEE SHEET TMP-24

- ① QUANTITY = 360 SQ. FT.
TEMPORARY SHORING
-Y15- STA 39+90± TO -Y15- STA 40+50± 8' LT OF -Y15-
(SEE SHEET TMP-2G)
- ② QUANTITY = 360 SQ. FT.
TEMPORARY SHORING
-Y15- STA 39+90± TO -Y15- STA 40+50± 8' RT OF -Y15-
(SEE SHEET TMP-2G)

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LEGEND

PROPOSED CONSTRUCTION

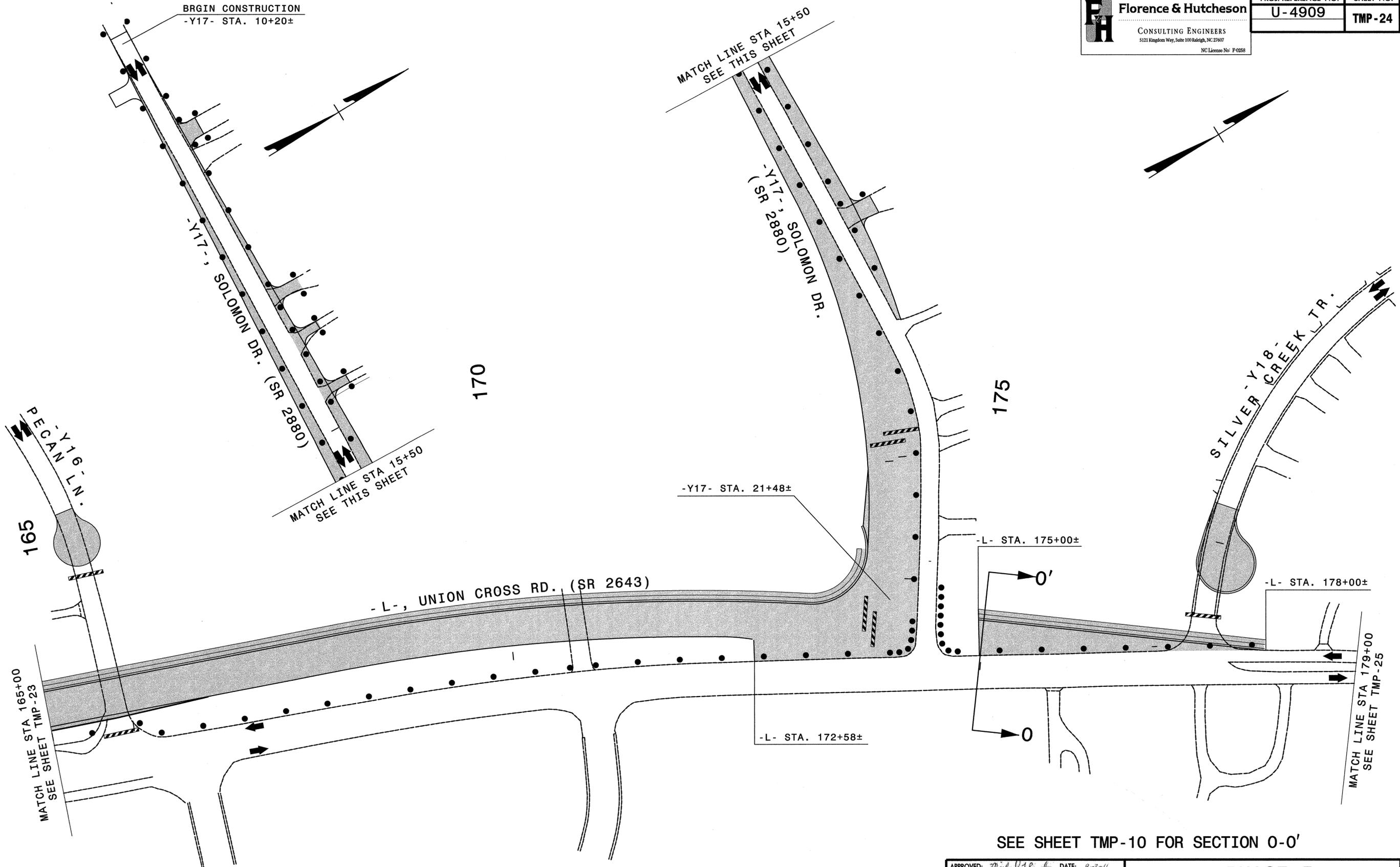
SEE SHEET TMP-9 FOR SECTIONS L-L' & M-M'
SEE SHEET TMP-10 FOR SECTION N-N'

APPROVED: *Michael T. Rzepka* DATE: 9-2-11

SEAL 

**PHASE I
STEP 2 DETAIL**

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SEE SHEET TMP-10 FOR SECTION 0-0'

LEGEND

 PROPOSED CONSTRUCTION

APPROVED: *Michael T. Kzema* DATE: 9-2-11

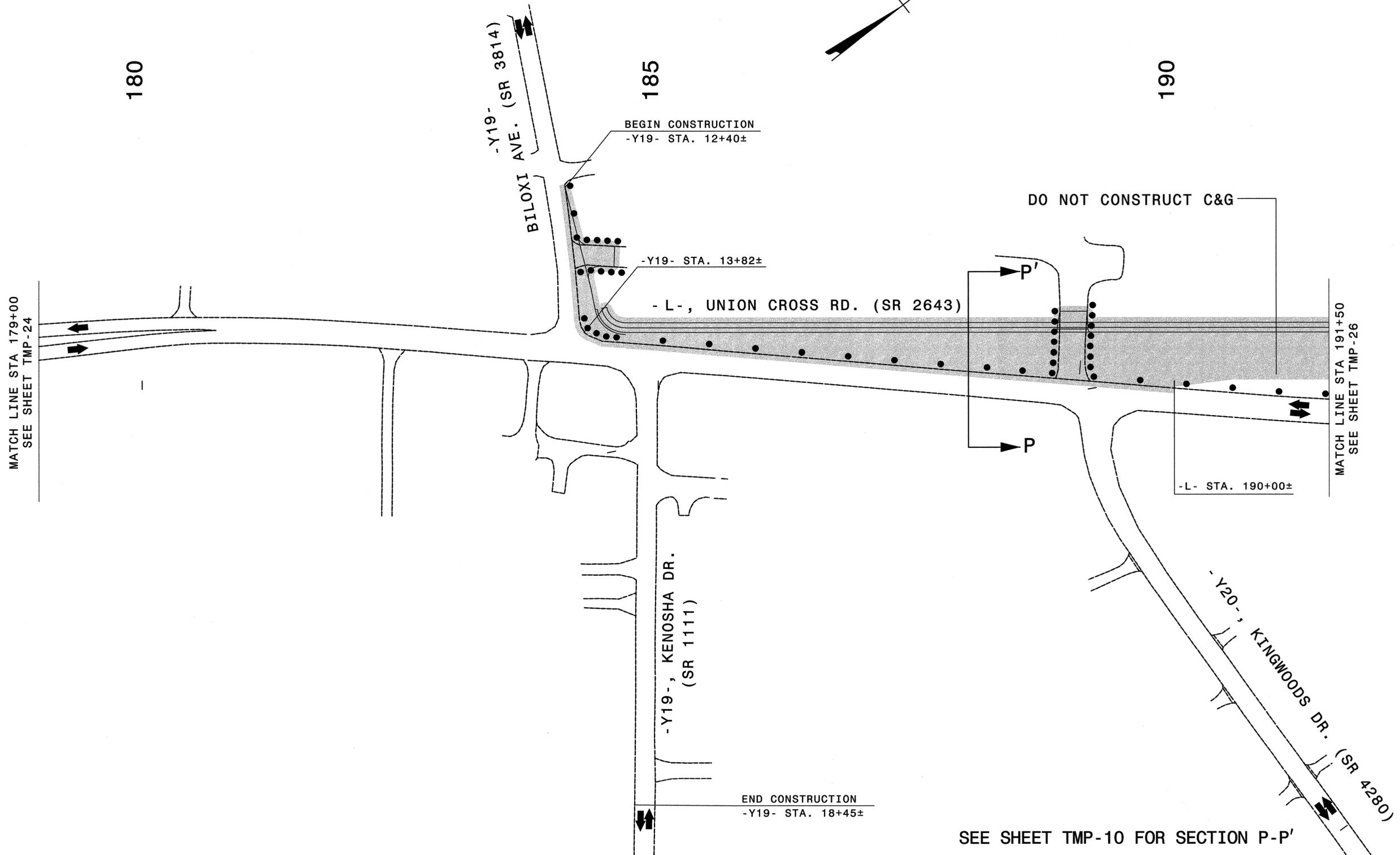
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**PHASE I
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DO NOT CONSTRUCT C&G

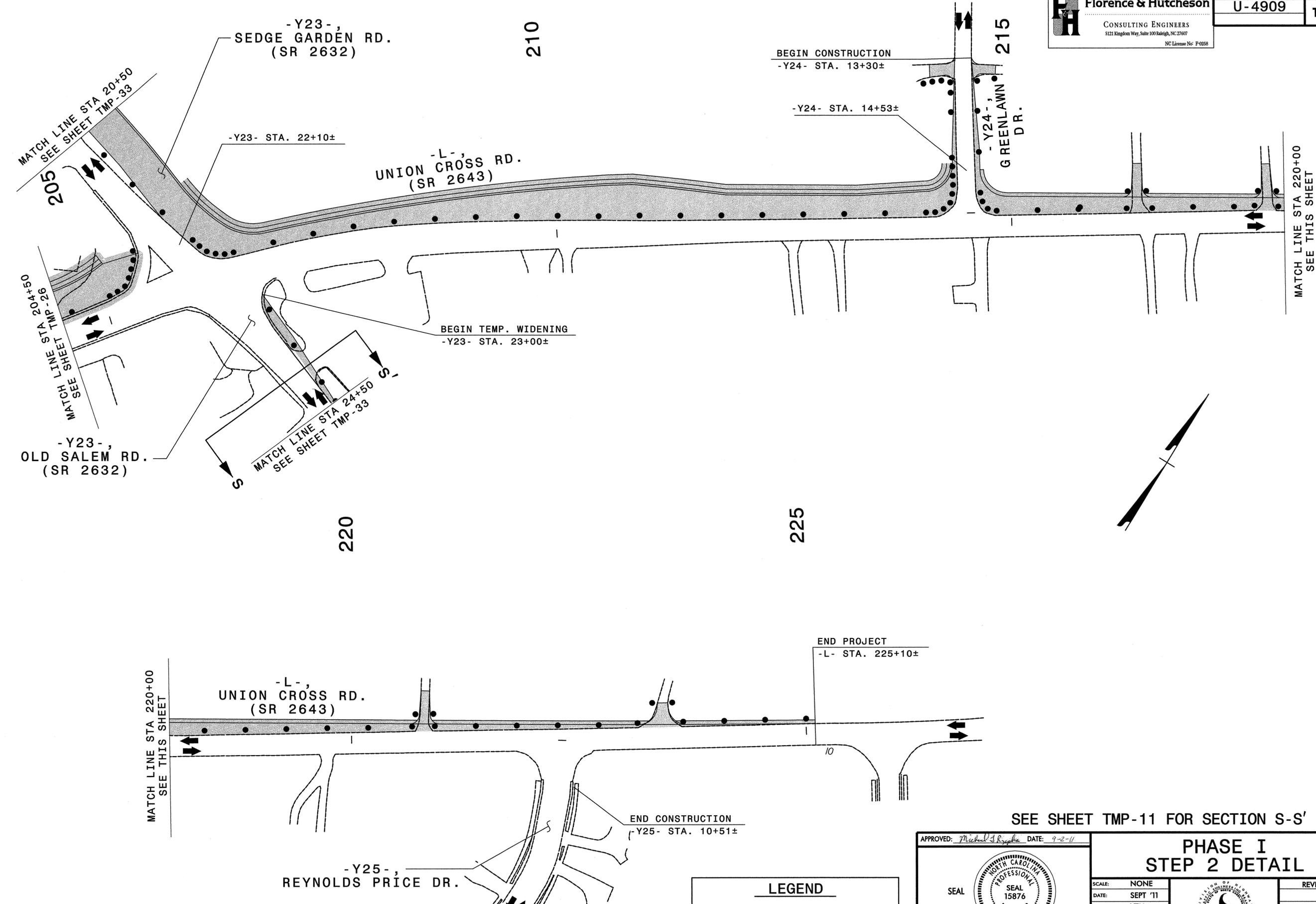
SEE SHEET TMP-10 FOR SECTION P-P'

LEGEND	
	PROPOSED CONSTRUCTION

APPROVED: *Michael T. Rzepka* DATE: 9-2-11

SEAL

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APPROVED: *Michael T. Rzeznica* DATE: 9-2-11

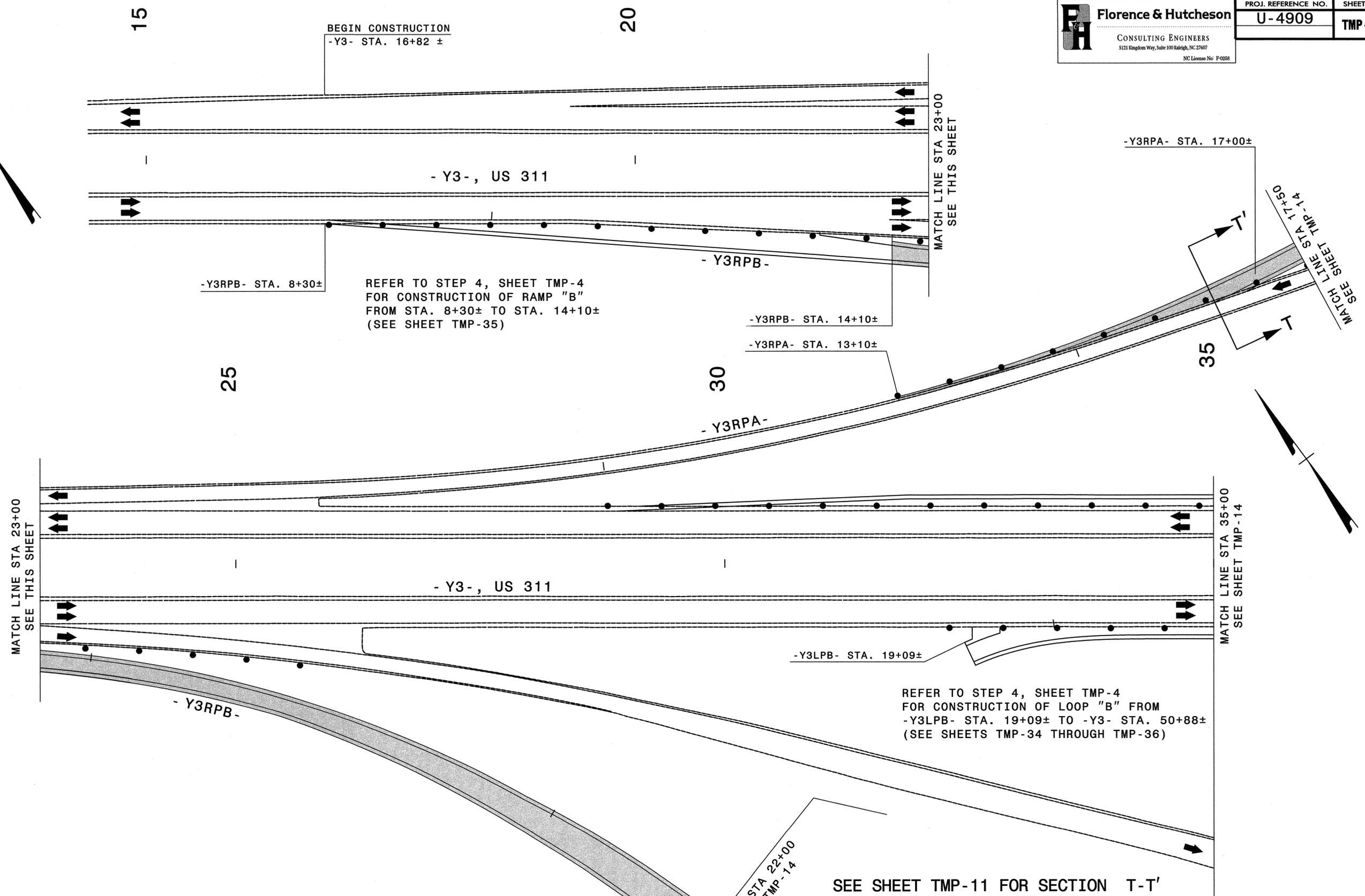
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SEE SHEET TMP-11 FOR SECTION S-S'

**PHASE I
STEP 2 DETAIL**

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MATCH LINE STA 23+00
SEE THIS SHEET

MATCH LINE STA 23+00
SEE THIS SHEET

MATCH LINE STA 35+00
SEE SHEET TMP-14

MATCH LINE STA 17+50
SEE SHEET TMP-14

MATCH LINE STA 22+00
SEE SHEET TMP-14

SEE SHEET TMP-11 FOR SECTION T-T'

LEGEND

PROPOSED CONSTRUCTION

APPROVED: *Michael T. Rzewa* DATE: 9-2-11

SEAL

**PHASE I
STEP 2 DETAIL**

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MATCH LINE STA 22+00
 SEE SHEET TMP-15

45

50

- Y3RPD -

REFER TO STEP 5, SHEET TMP-4
 FOR CONSTRUCTION OF LOOP "D" FROM
 -Y3- STA. 28+90± TO -Y3LPD- STA. 19+09±
 (SEE SHEETS TMP-37 THROUGH TMP-39)

-Y3LPD- STA. 19+09±

MATCH LINE STA 42+00
 SEE SHEET TMP-14

- Y3 - , US 311

MATCH LINE STA 54+00
 SEE SHEET TMP-30

REFER TO STEP 4, SHEET TMP-4
 FOR CONSTRUCTION OF LOOP "B" FROM
 -Y3LPB- STA. 19+09± TO -Y3- STA. 50+88±
 (SEE SHEETS TMP-34 THROUGH TMP-36)

- Y3RPC -

-Y3- STA. 50+88±

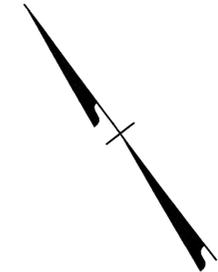
-Y1- , HAYES DR. (SR 4232)

-Y1- STA. 33+74±

-Y1- STA. 37+05±

LEGEND

 PROPOSED CONSTRUCTION



MATCH LINE
 STA 24+50
 SEE SHEET TMP-14

BREAK LINE
 STA 32+00±
 SEE SHEET TMP-13

APPROVED: *Michael T. Kieva* DATE: 9-2-11



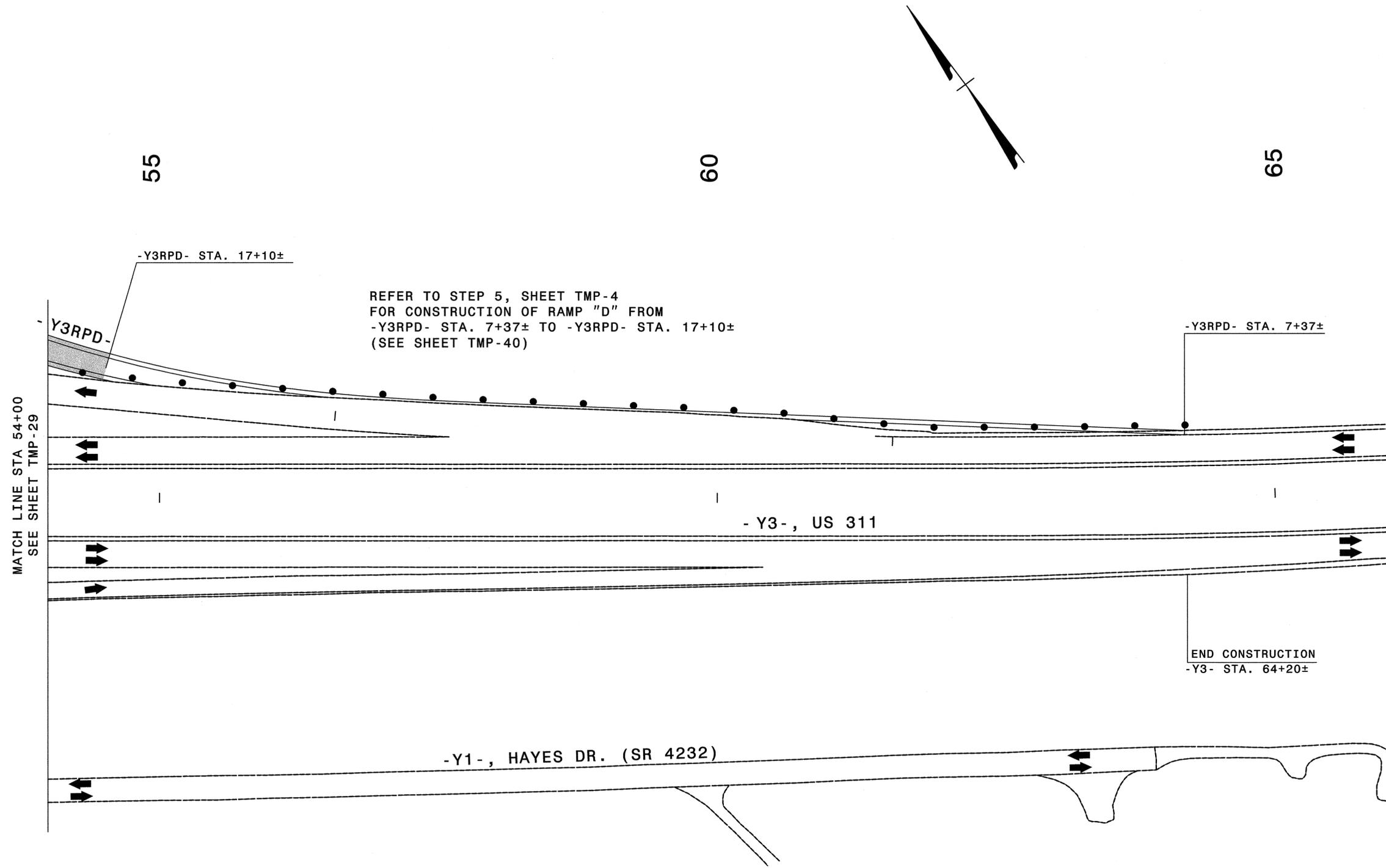
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REVISIONS

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MATCH LINE STA 54+00
 SEE SHEET TMP-29

REFER TO STEP 5, SHEET TMP-4
 FOR CONSTRUCTION OF RAMP "D" FROM
 -Y3RPD- STA. 7+37± TO -Y3RPD- STA. 17+10±
 (SEE SHEET TMP-40)

- Y3 -, US 311

-Y1 -, HAYES DR. (SR 4232)

END CONSTRUCTION
 -Y3- STA. 64+20±

LEGEND

PROPOSED CONSTRUCTION

APPROVED: *Michael T. Rzepka* DATE: 9-2-11

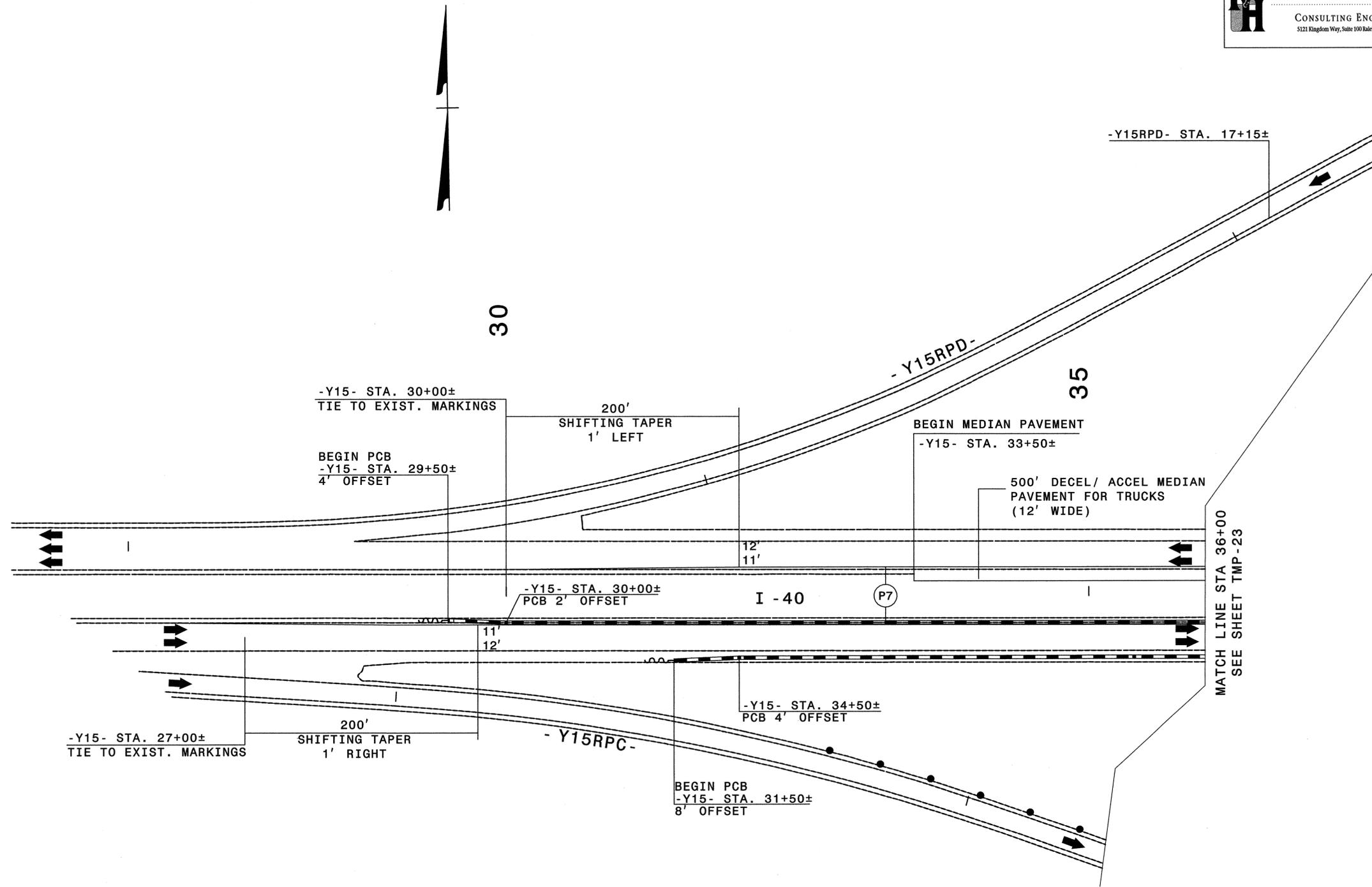
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**PHASE I
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-Y15- STA. 27+00±
TIE TO EXIST. MARKINGS

200'
SHIFTING TAPER
1' RIGHT

BEGIN PCB
-Y15- STA. 29+50±
4' OFFSET

-Y15- STA. 30+00±
PCB 2' OFFSET

200'
SHIFTING TAPER
1' LEFT

BEGIN PCB
-Y15- STA. 31+50±
8' OFFSET

-Y15- STA. 34+50±
PCB 4' OFFSET

BEGIN MEDIAN PAVEMENT
-Y15- STA. 33+50±

500' DECEL/ ACCEL MEDIAN
PAVEMENT FOR TRUCKS
(12' WIDE)

-Y15RPD- STA. 17+15±

MATCH LINE STA 36+00
SEE SHEET TMP-23

LEGEND

■ PROPOSED CONSTRUCTION

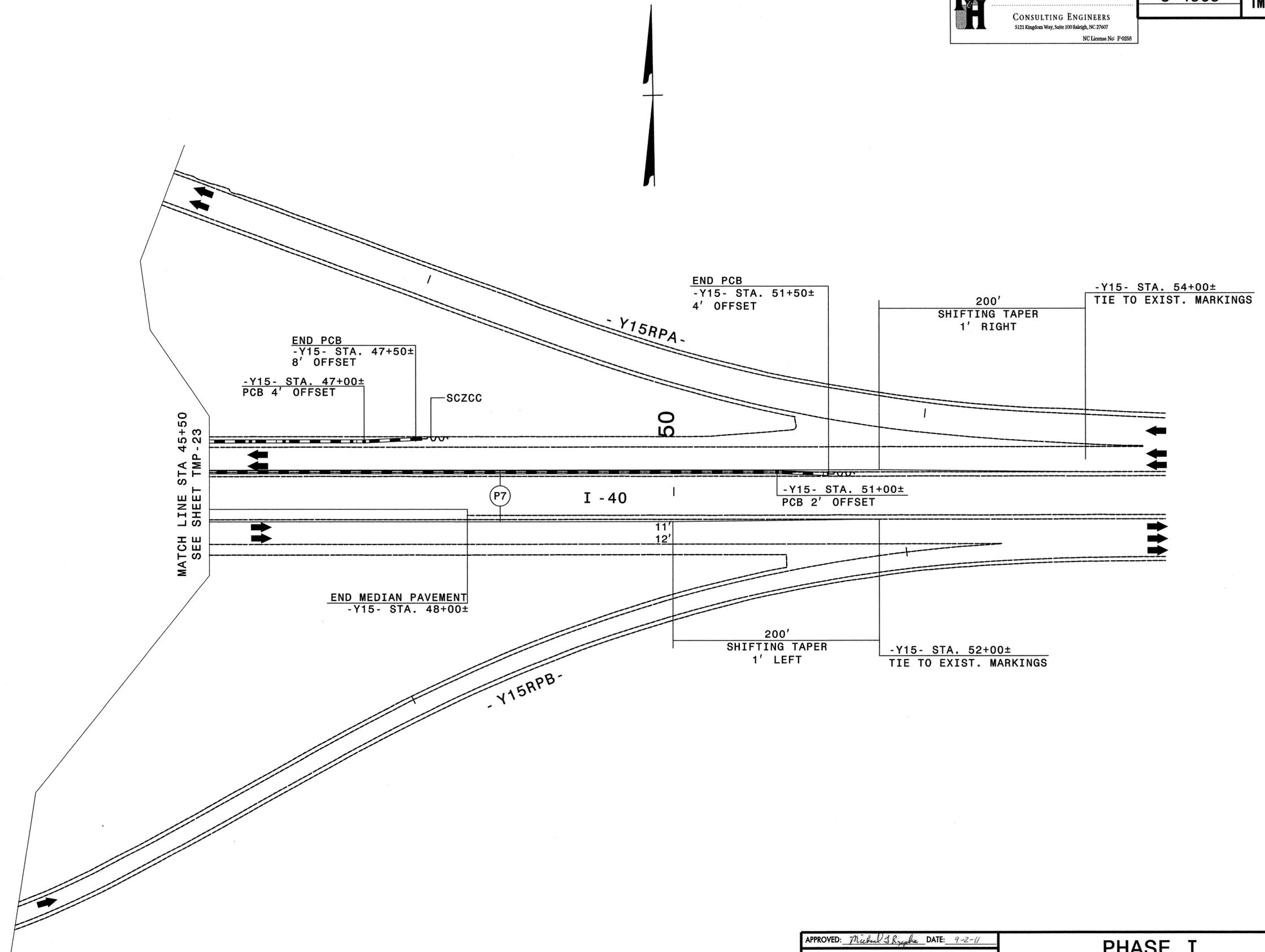
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**PHASE I
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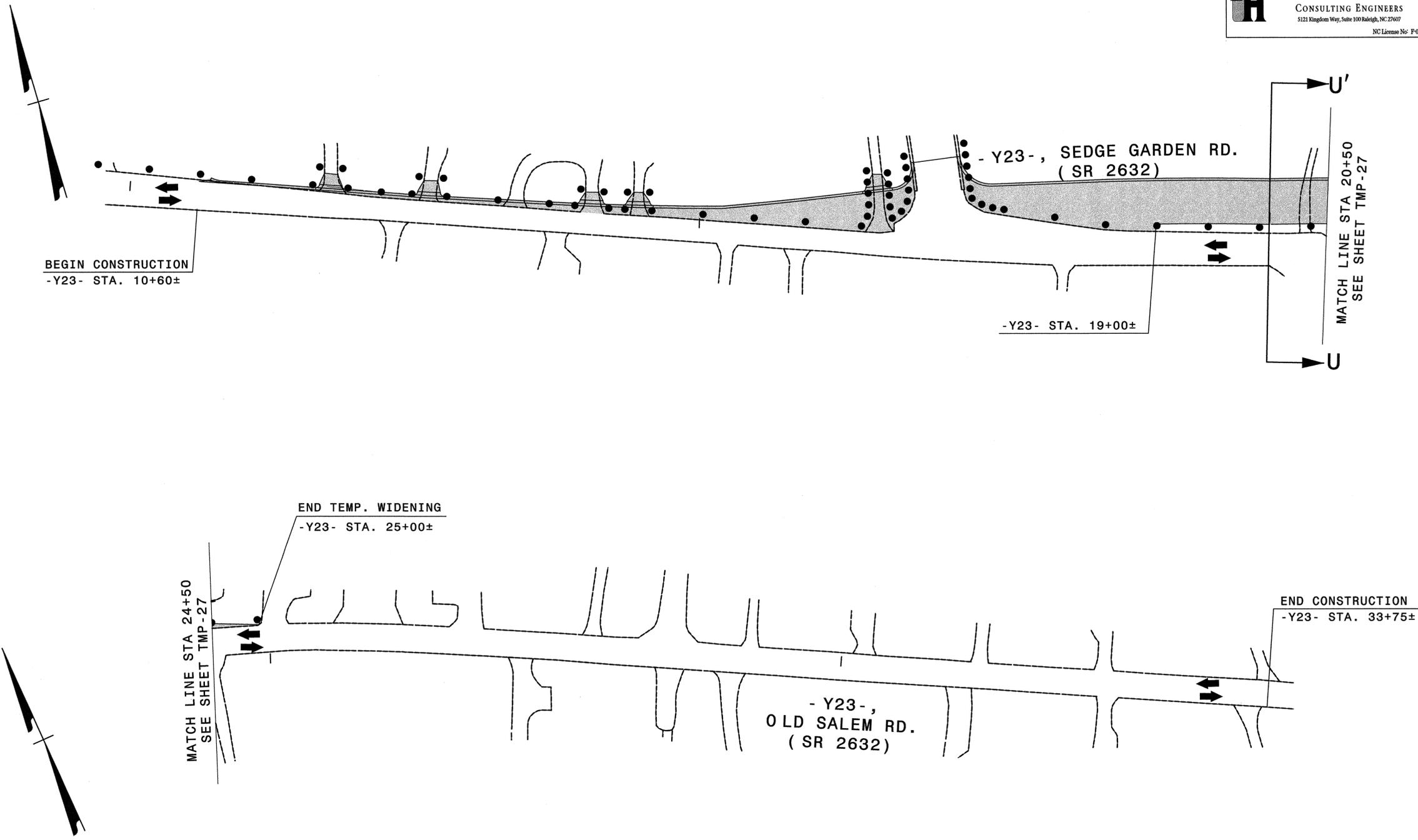
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APPROVED: *Michael T. Rzewny* DATE: 9-2-11


**PHASE I
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SEE SHEET TMP-12 FOR SECTION U-U'

LEGEND

PROPOSED CONSTRUCTION

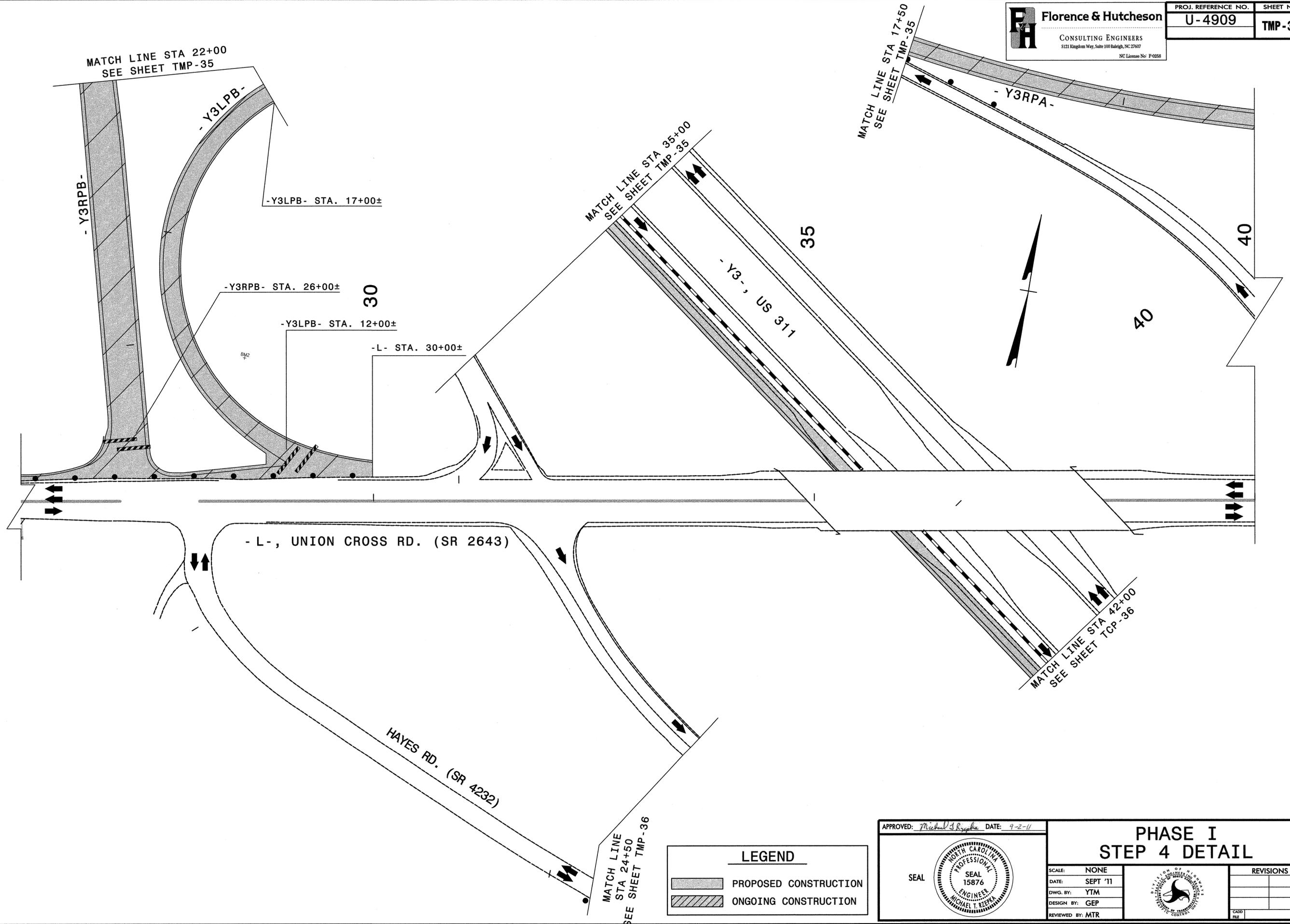
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**PHASE I
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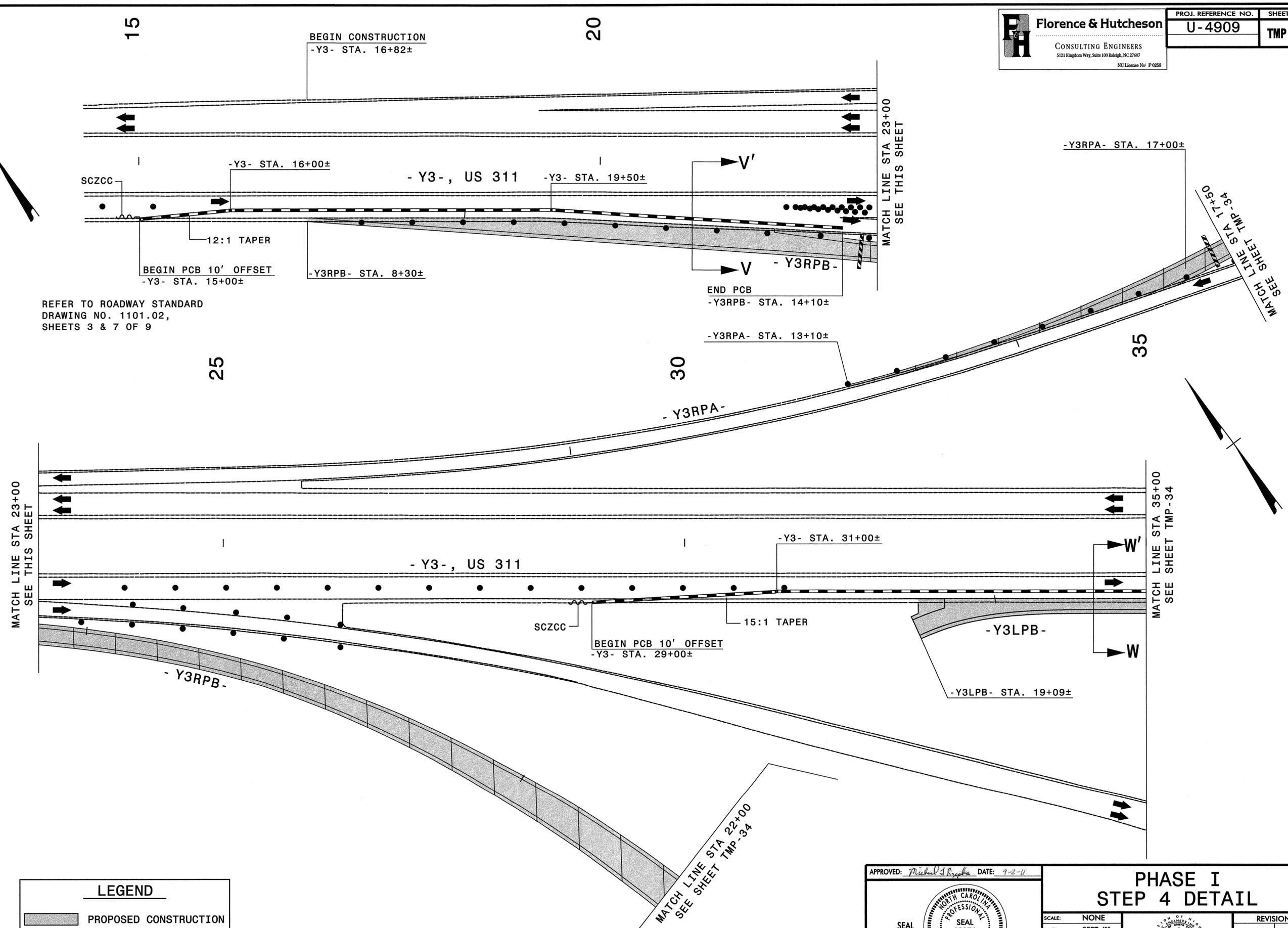
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**PHASE I
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REFER TO ROADWAY STANDARD
 DRAWING NO. 1101.02,
 SHEETS 3 & 7 OF 9

LEGEND	
	PROPOSED CONSTRUCTION
	ONGOING CONSTRUCTION

SEE SHEET TMP-12 FOR SECTIONS V-V' & W-W'

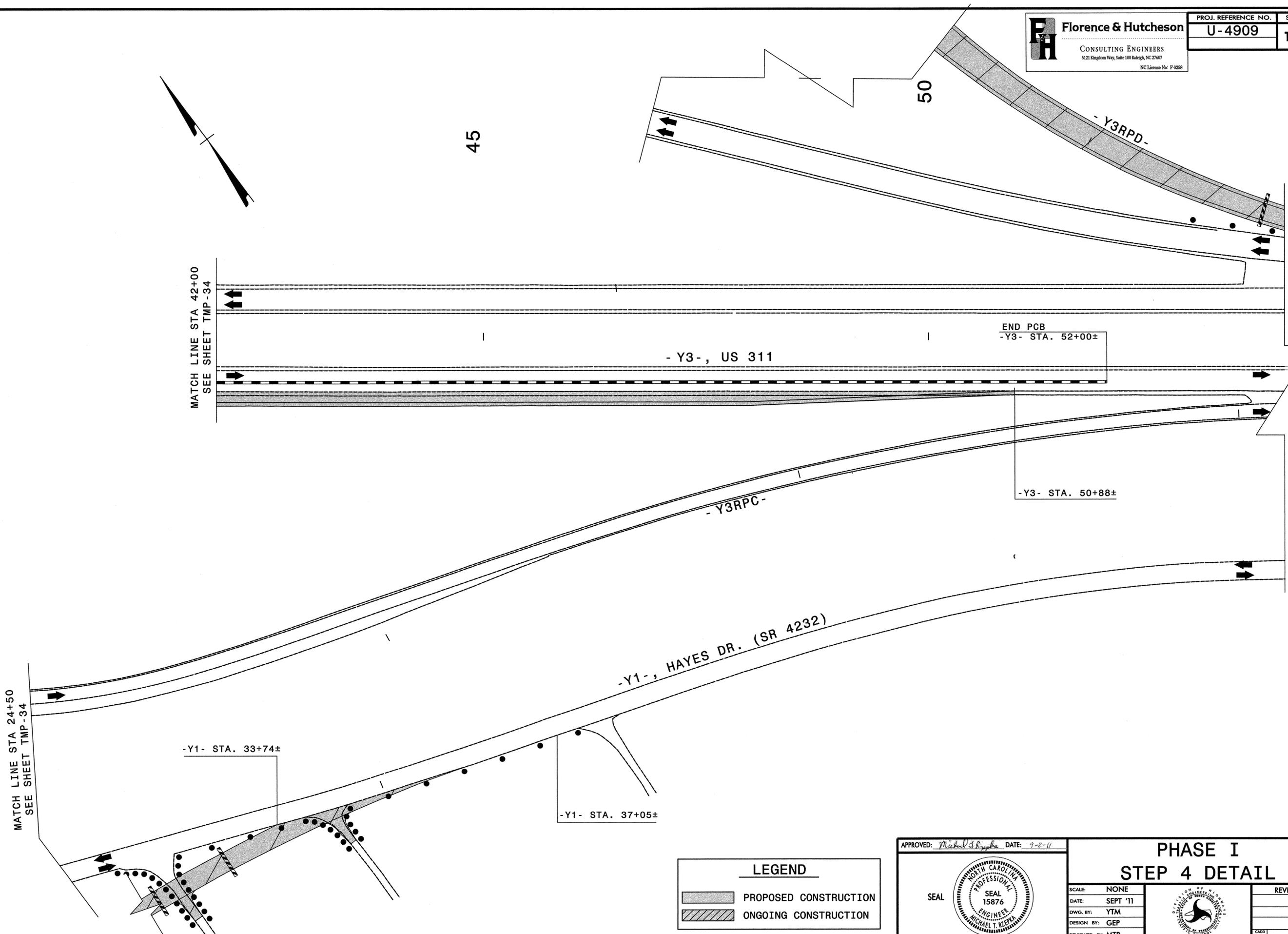
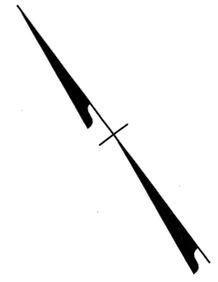
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**PHASE I
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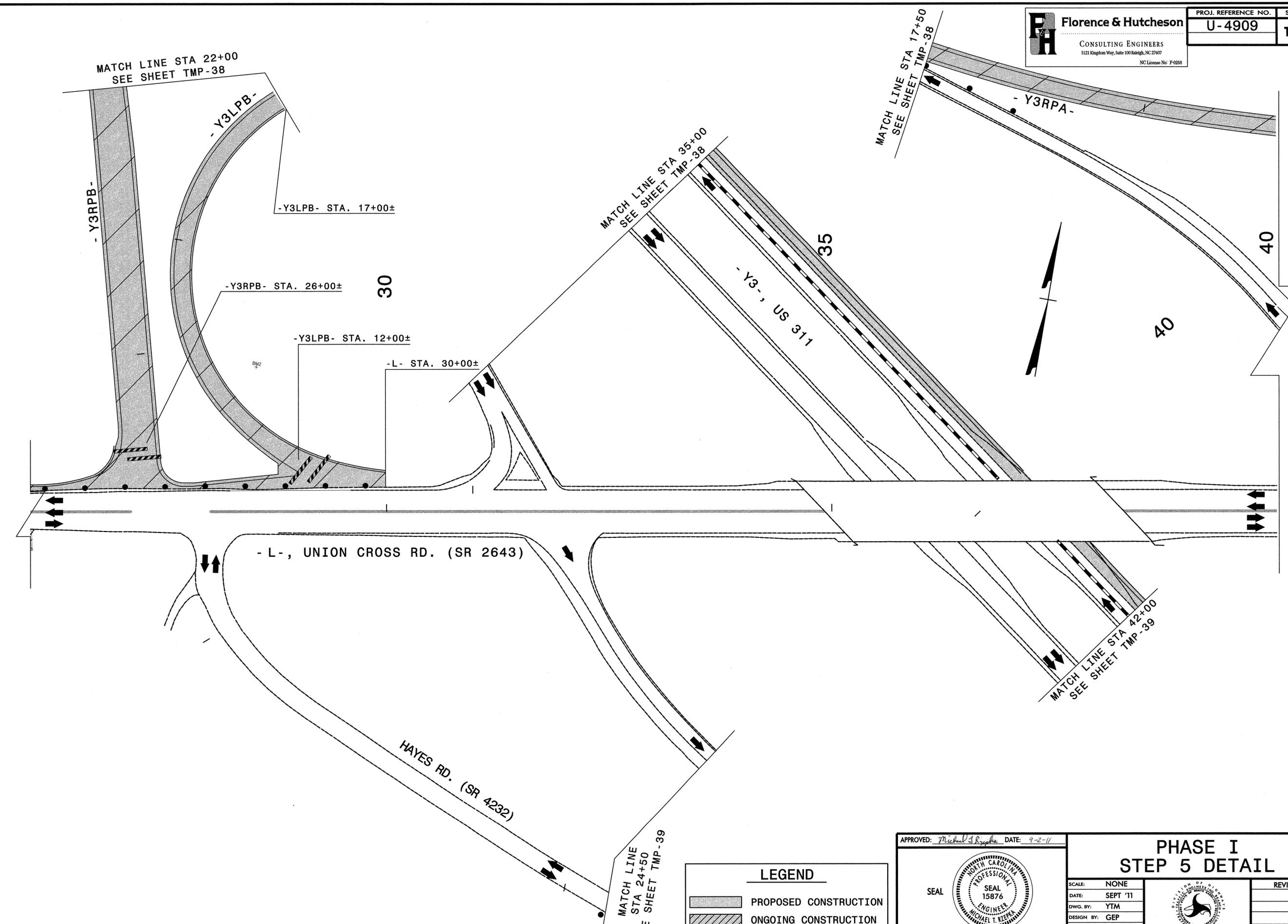
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APPROVED: *Michael T. Rzepka* DATE: 9-2-11

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**PHASE I
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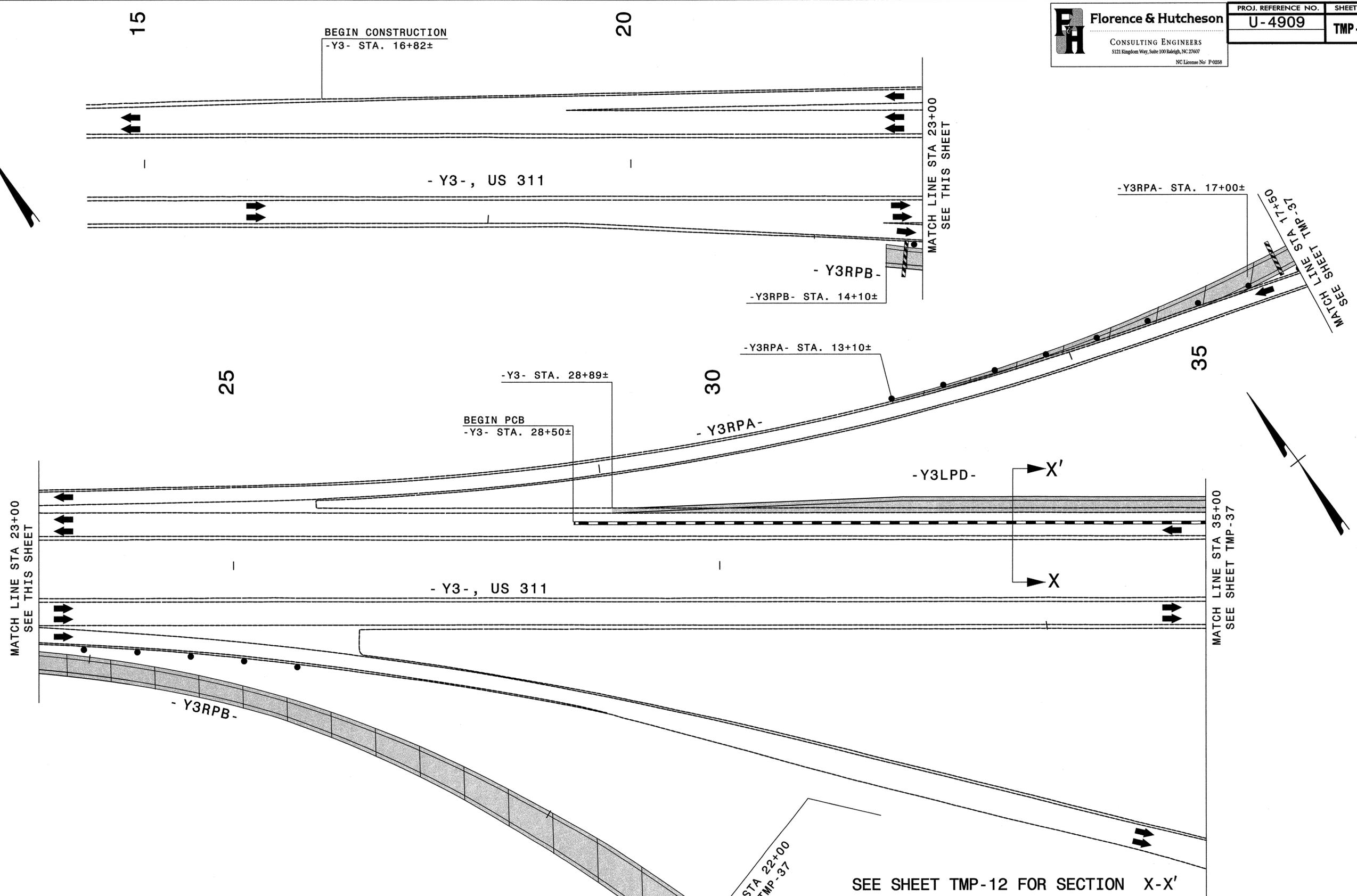
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APPROVED: *Michael T. Rzepka* DATE: 9-2-11

SEAL

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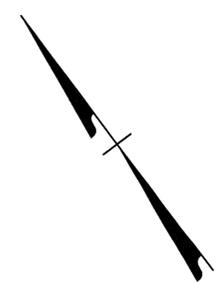
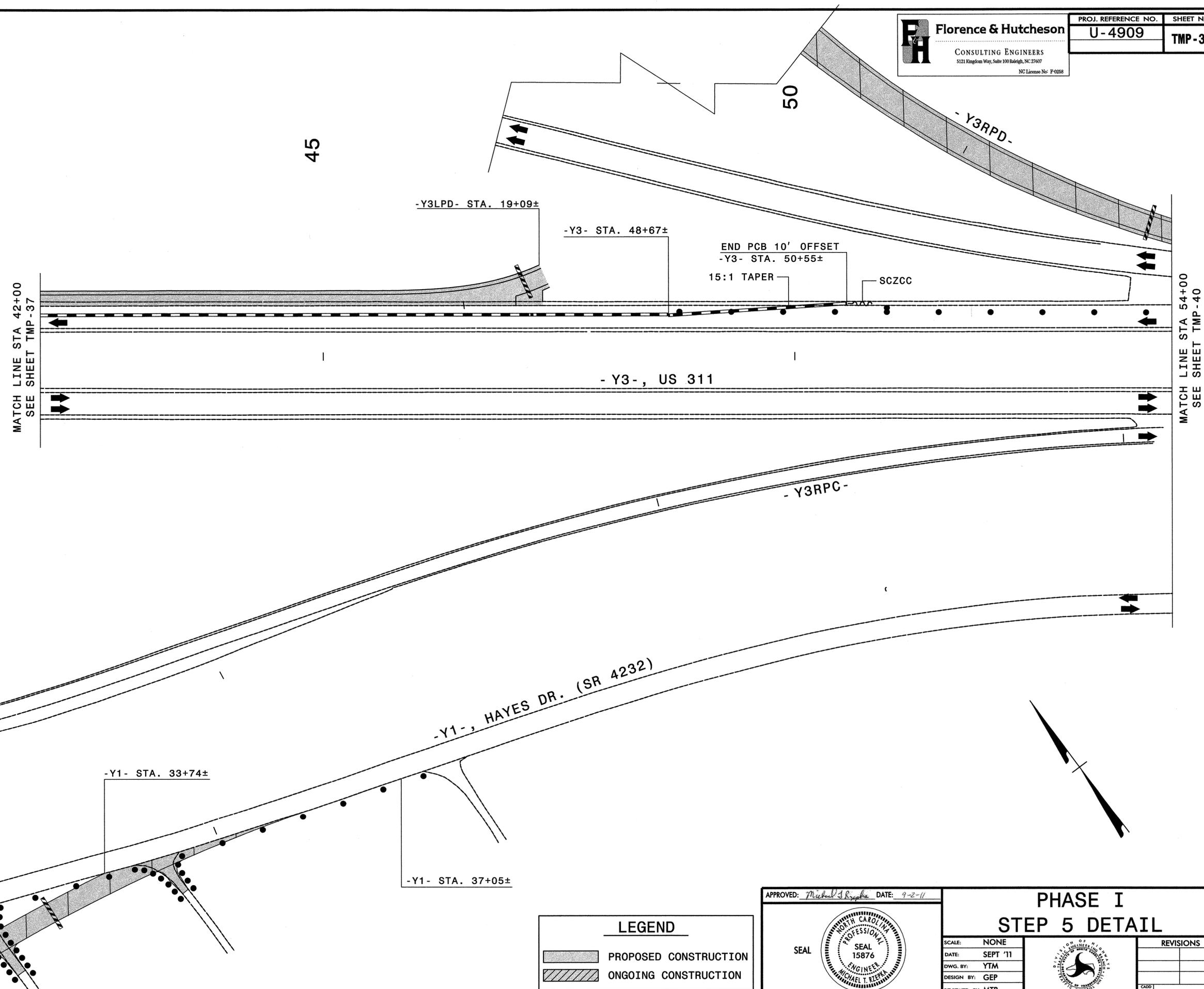
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**PHASE I
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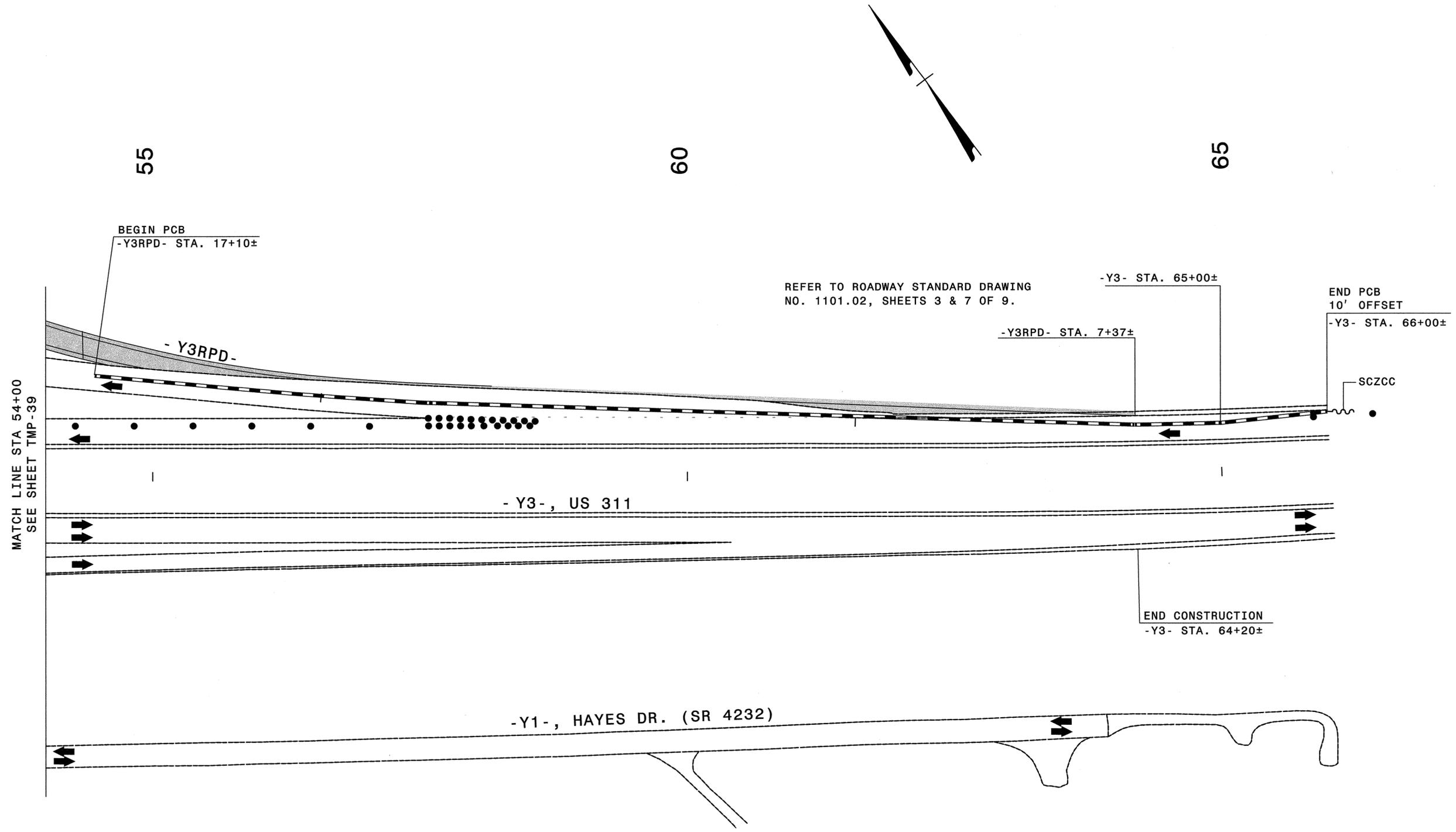
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**PHASE I
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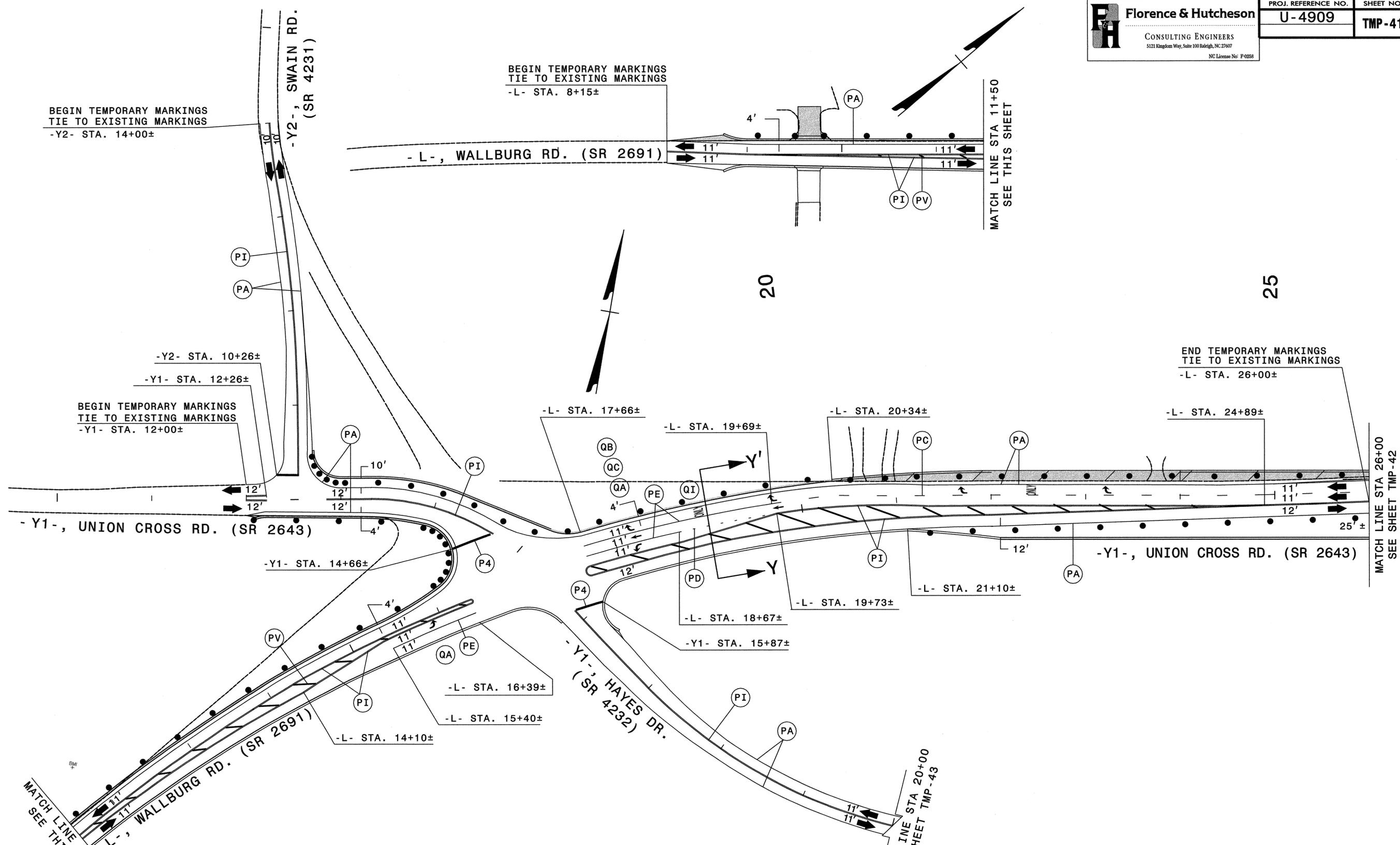
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APPROVED: *Michael T. Riepa* DATE: 9-2-11

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**PHASE I
STEP 5 DETAIL**

SCALE: NONE		REVISIONS
DATE: SEPT '11		
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BEGIN TEMPORARY MARKINGS
TIE TO EXISTING MARKINGS
-Y2- STA. 14+00±

BEGIN TEMPORARY MARKINGS
TIE TO EXISTING MARKINGS
-L- STA. 8+15±

MATCH LINE STA 11+50
SEE THIS SHEET

BEGIN TEMPORARY MARKINGS
TIE TO EXISTING MARKINGS
-Y1- STA. 12+00±

END TEMPORARY MARKINGS
TIE TO EXISTING MARKINGS
-L- STA. 26+00±

MATCH LINE STA 26+00
SEE SHEET TMP-42

MATCH LINE STA 11+50
SEE THIS SHEET

BREAK LINE STA 20+00
SEE SHEET TMP-43

SEE SHEET TMP-12 FOR SECTION Y-Y'

LEGEND	
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	ONGOING CONSTRUCTION

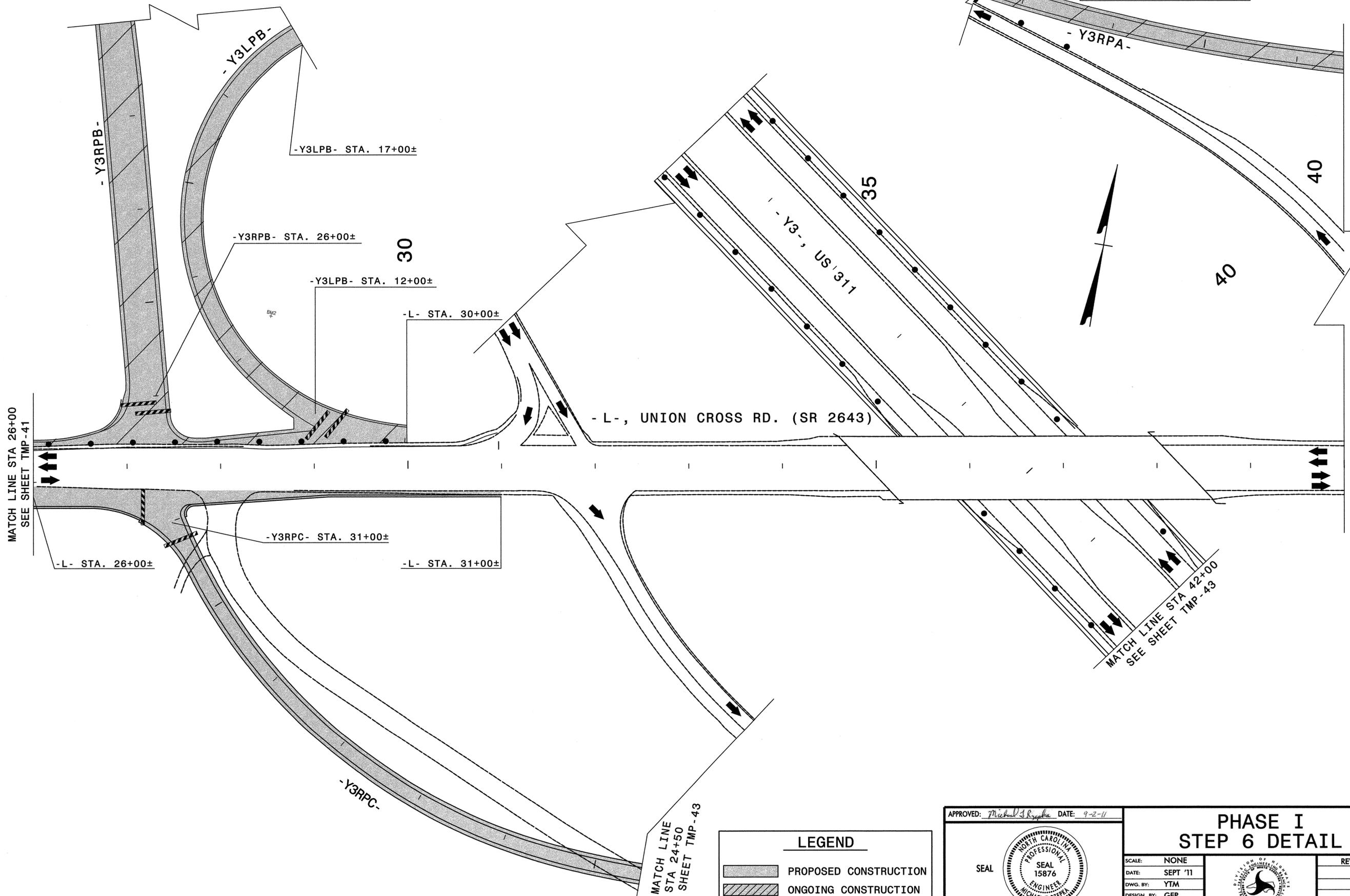
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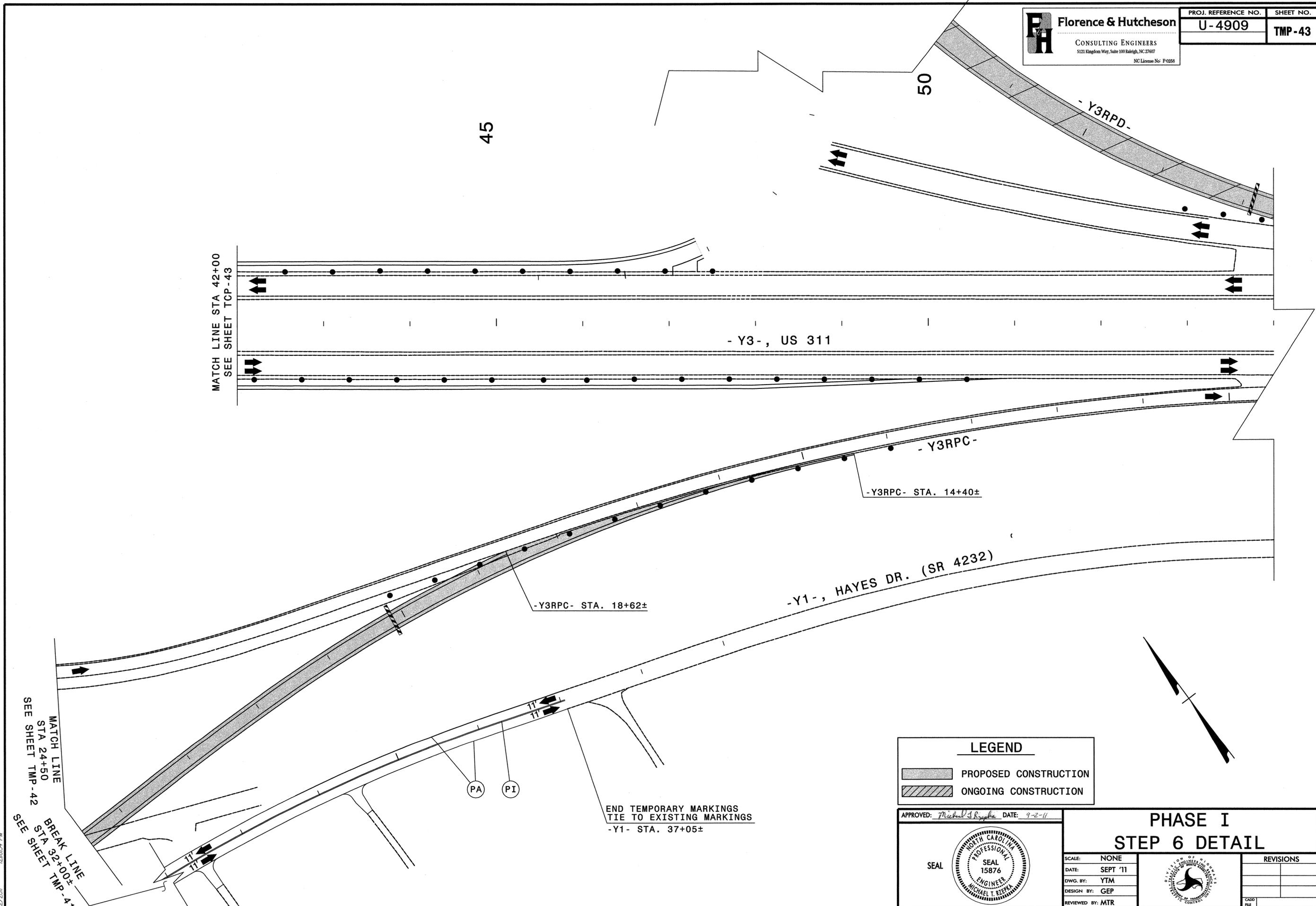
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LEGEND

PROPOSED CONSTRUCTION

ONGOING CONSTRUCTION

APPROVED: *Michael T. Rzeznika* DATE: 9-2-11

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**PHASE I
STEP 6 DETAIL**

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MATCH LINE
STA 24+50
SEE SHEET TMP-42

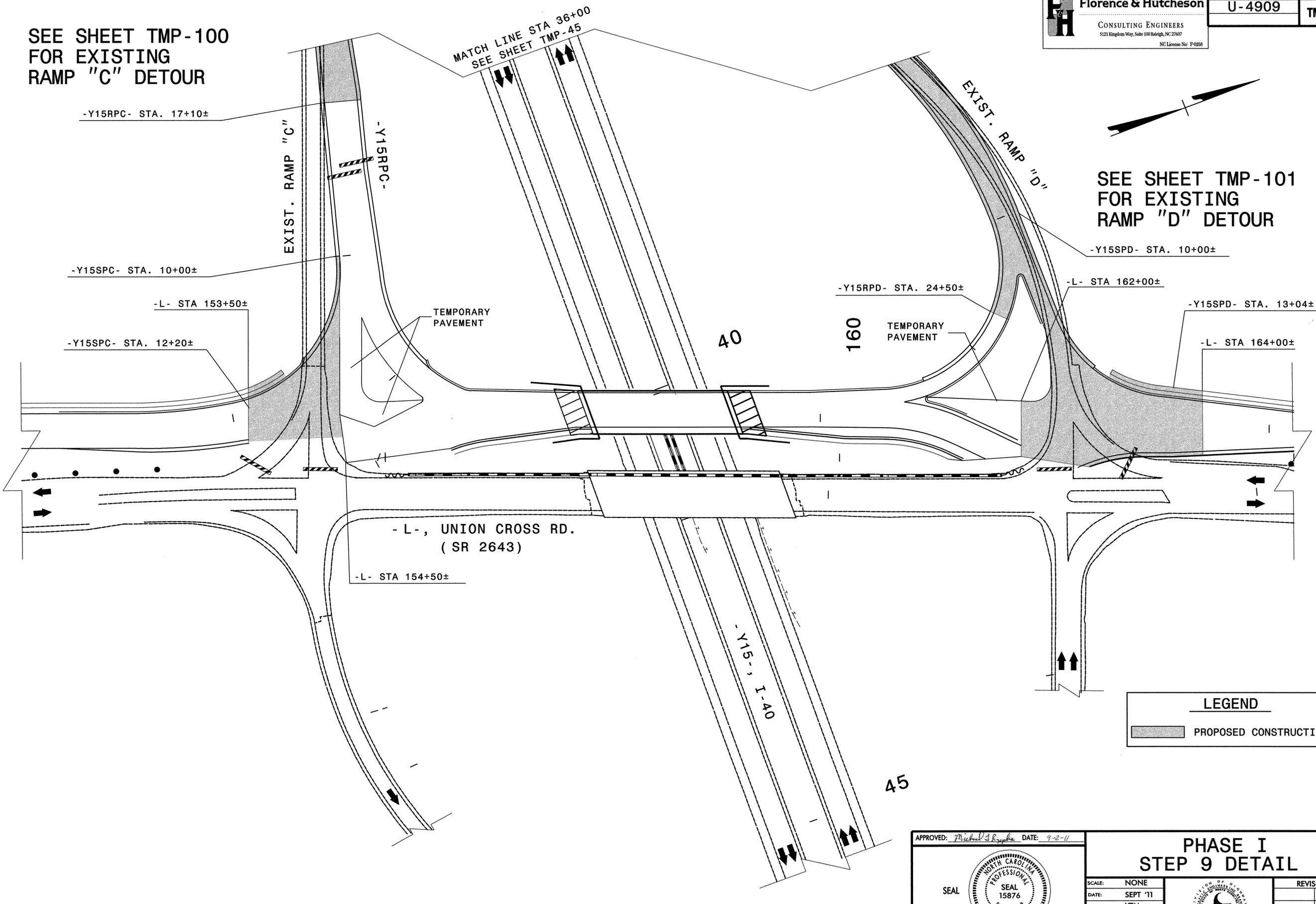
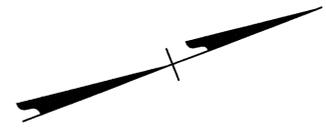
BREAK LINE
STA 32+00±
SEE SHEET TMP-41

MATCH LINE STA 42+00
SEE SHEET TCP-43

END TEMPORARY MARKINGS
TIE TO EXISTING MARKINGS
-Y1- STA. 37+05±

SEE SHEET TMP-100
FOR EXISTING
RAMP "C" DETOUR

SEE SHEET TMP-101
FOR EXISTING
RAMP "D" DETOUR

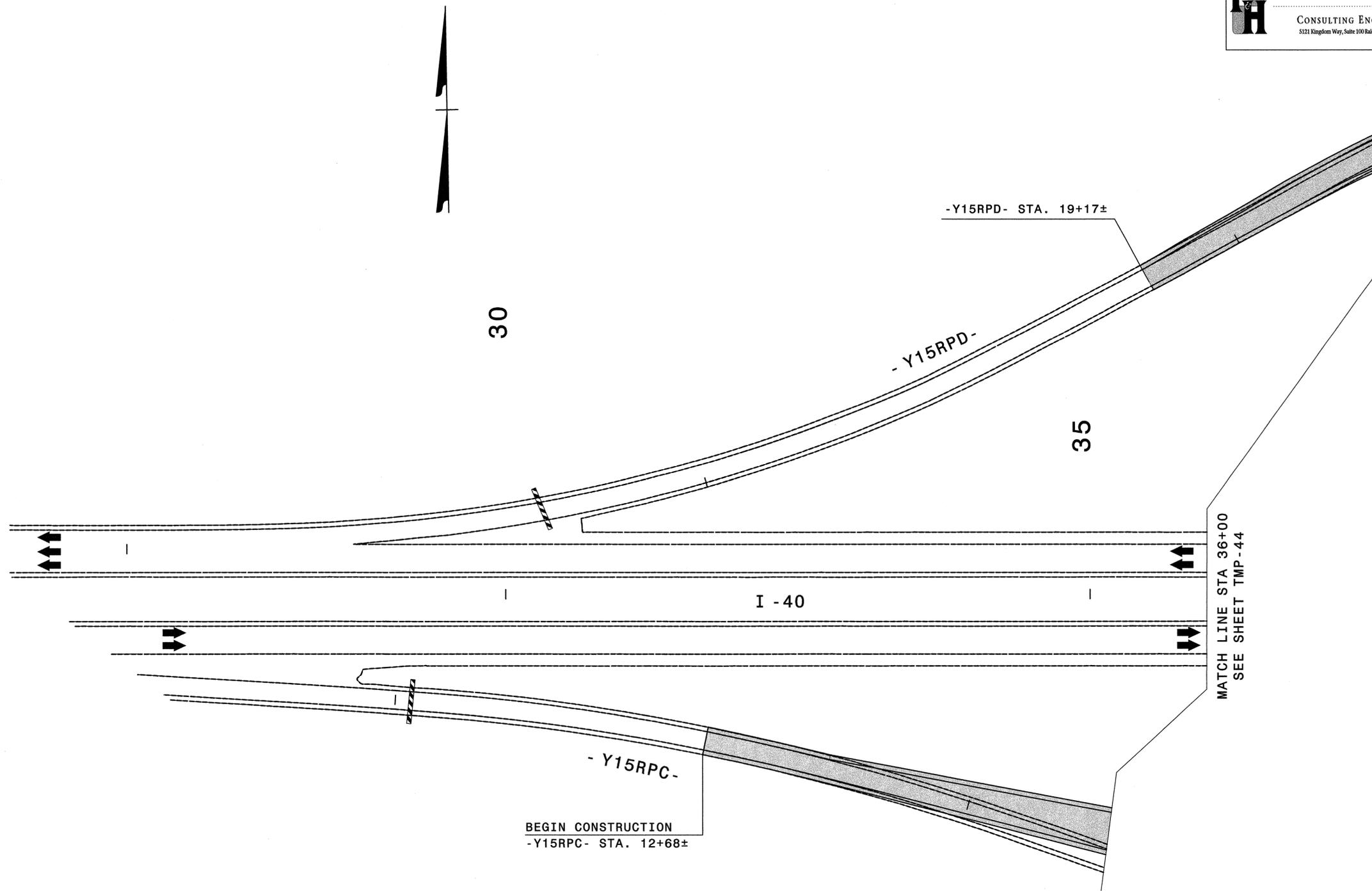


LEGEND

 PROPOSED CONSTRUCTION

APPROVED: <i>Michael J. Rzesutka</i> DATE: 9-2-11	PHASE I STEP 9 DETAIL	
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	DATE: SEPT '11	
	DWG. BY: YTM	
	DESIGN BY: GEP	
REVIEWED BY: MTR	REVISIONS	

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BEGIN CONSTRUCTION
 -Y15RPC- STA. 12+68±

MATCH LINE STA 36+00
 SEE SHEET TMP-44

LEGEND	
	PROPOSED CONSTRUCTION

APPROVED: *Michael T. Rzewny* DATE: 9-2-11

SEAL

PHASE I STEP 9 DETAIL	
SCALE: NONE	
DATE: SEPT '11	
DWG. BY: YTM	
DESIGN BY: GEP	
REVIEWED BY: MTR	REVISIONS

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PHASING

FH Florence & Hutcheson
CONSULTING ENGINEERS
5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No. F-0285

PROJ. REFERENCE NO.	SHEET NO.
U-4909	TMP-46

PHASE II

STEP 1

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 6 & 7 OF 9, PAVE/WEDGE PROPOSED -Y3RPA-, -Y3RPB-, -Y3RPC- & -Y3RPD- TIE-INS WITH EXISTING US 311 RAMPS. SWITCH TRAFFIC ONTO PROPOSED RAMPS, PLACE PAVEMENT MARKING LINES & SYMBOLS, AND CLOSE EXIST. RAMPS AT US 311. MAINTAIN LEFT TURNS FROM -L- ONTO PROPOSED RAMPS -Y3RPA- & -Y3RPC. USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1 AND 2 OF 9, INSTALL TEMPORARY PAVEMENT MARKING LINES, MARKERS AND MODIFY EXISTING MARKINGS TO SHIFT UNION CROSS RD. TRAFFIC INTO THE TEMPORARY ALIGNMENT FROM SB -L- STA. 44+50± TO -L- STA. 58+48±, INCLUDING -Y4-, HIGH POINT RD. (SR 1003) (LEFT SIDE OF -L-). ACTIVATE TEMPORARY TRAFFIC SIGNALS AT THE -L- & -Y4- INTERSECTION AND OPEN ALL LANES UP TO TRAFFIC. (SEE SHEETS TMP-54, TMP-55, TMP-56, TMP-57, TMP-67, TMP-68 AND TMP-69)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1 AND 2 OF 9, IN ONE CONTINUOUS OPERATION INSTALL TEMPORARY PAVEMENT MARKING LINES, MARKERS AND MODIFY EXISTING MARKINGS TO SHIFT UNION CROSS RD. TRAFFIC INTO THE TEMPORARY ALIGNMENT FROM (SECTIONS ARE INDEPENDENT OF EACH OTHER):

SB -L- STA. 92+03± TO STA. 120+52± - ACTIVATE TEMPORARY TRAFFIC SIGNAL AT THE -Y10-, DELL BLVD. (SR 2798) INTERSECTION. (SEE SHEETS TMP-58 THRU TMP-60)

SB -L- STA. 183+71± TO STA. 225+10± (INCLUDING -Y23- FROM STA. 10+60± TO STA. 25+00±) ACTIVATE TEMPORARY TRAFFIC SIGNAL AT THE -Y23-, OLD SALEM/SEDGE GARDEN RD. (SR 2632) INTERSECTION. SEE SHEETS TMP-64 THRU TMP-66 AND TMP-71)

STEP 2

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1 AND 2 OF 9, BEGIN CONSTRUCTION OF PROPOSED -L- UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS:

NB -L- STA. 195+00± TO STA. 205+00± (SEE SHEETS TMP-65 AND TMP-66)
NB -L- STA. 207+00± TO STA. 225+10± (SEE SHEET TMP-66)

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS:

LOOP B -Y3LPB- STA. 17+00± TO -Y3LPB- STA. 19+09± (SEE SHEET TMP-67)
LOOP D -Y3LPD- STA. 16+50± TO -Y3LPD- STA. 19+09± (SEE SHEET TMP-68)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1, 2, 3, OR 4 OF 9, CONSTRUCT UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE INCLUDING DRAINAGE AT THE FOLLOWING LOCATIONS:

NB -L- STA. 95+00± TO -LNB- STA. 154+00± (SEE SHEETS TMP-58 THRU TMP-62)
-L- SB- FROM -L- STA. 154+64± TO BEGINNING OF BRIDGE (SEE SHEETS TMP-62)
-L- SB- FROM END OF BRIDGE TO -L- STA. 162+00± (SEE SHEET TMP-62)
NB -L- 162+73± TO STA. 195+00± - DO NOT CONSTRUCT MEDIAN C&G FROM -L- STA. 188+00± TO -L- STA. 195+00±. CONSTRUCT TEMPORARY PAVEMENT IN PROPOSED MEDIAN FROM -L- STA. 188+00± TO -L- STA. 195+00±. (SEE SHEETS TMP-62 THRU TMP-65)
NB -L- STA. 205+00± TO STA. 206+20± (SEE SHEET TMP-66)
-Y15RPA- STA. 19+00± TO -Y15RPA- 21+44± (SEE SHEETS TMP-62)
-Y15RPB- STA. 21+41± TO -Y15RPB- STA. 23+93± (SEE SHEETS TMP-62)
-Y15SPA- STA. 11+62± TO -Y15SPA- STA. 12+73± (SEE SHEET TMP-62)
-Y15SPB- STA. 12+00± TO -Y15SPB- STA. 13+04± (SEE SHEET TMP-62)
-Y23- STA. 19+00± TO PROPOSED -L- (RIGHT SIDE) (SEE SHEETS TMP-66 & TMP-71)
-Y23- STA. FROM PROPOSED -L- TO STA. 26+50± (RIGHT SIDE) (SEE SHEETS TMP-66 & TMP-71)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1, 2, 3 OR 4 OF 9, BEGIN WEDGE AND WIDEN PROPOSED UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS:

-L- STA. 30+00± TO END OF EXIST. BRIDGE (LT) (SEE SHEET TMP-55)
-L- END OF EXIST. BRIDGE TO STA. 44+50± (LT) (SEE SHEETS TMP-55 & TMP-56)
-L- STA. 31+00± TO END OF EXIST. BRIDGE (RT) (SEE SHEET TMP-55)
-L- END OF EXIST. BRIDGE TO STA. 43+00± (RT) (SEE SHEETS TMP-55 & TMP-56)
-L- STA. 53+00± TO STA. 57+50± RT (SEE SHEET TMP-57)
-L- STA. 90+00± TO STA. 95+00± RT (SEE SHEET TMP-58)
-Y23- STA. 10+60± TO STA. 19+00± RT (SEE SHEET TMP-71)
-Y23- STA. 26+50± TO STA. 33+75± RT (SEE SHEET TMP-71)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, BEGIN WEDGE AND WIDEN UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE INCLUDING PROPOSED DRAINAGE THE FOLLOWING EXISTING -Y- LINES:

-Y4-, HIGH POINT RD. (SR 1003) FROM STA. 23+20± TO STA. 32+00± (SEE SHEET TMP-57)
-Y9-, HEDGE COCK RD. (SR 2683) FROM STA. 10+00± TO STA. 10+82± (SEE SHEET TMP-58)
-Y11-, LORADALE DR. (SR 2882) FROM STA. 10+00 TO STA. 12+00± (SEE SHEET TMP-59)
-Y14-, GLENNVIEW DR. (SR 2837) FROM STA. 12+50± TO STA. 14+50± (SEE SHEET TMP-61)
-Y19-, KENOSHA DR. (SR 1111) FROM STA. 14+11± TO STA. 18+45± (SEE SHEET TMP-64)
-Y20-, KINGWOODS DR. (SR 4280) FROM STA. 9+94± TO STA. 12+20± (SEE SHEET TMP-64)
-Y22-, SOMERSET CROSSING LN. (SR 4334) FROM STA. 9+85± TO STA. 11+85± (SEE SHEET TMP-65)
-Y25-, REYNOLDS PRICE DR. FROM STA. 10+00± TO STA. 10+51± (SEE SHEET TMP-66)

COMPLETE THE FOLLOWING BEGUN IN PHASE I, STEP 2:

-Y3LPB- FROM -Y3LPB- STA. 12+00± TO STA. 17+00±
-Y3LPD- FROM -Y3LPD- STA. 12+00± TO STA. 16+50±
-L- STA. 43+00± TO STA. 45+00± RT
-L- STA. 47+00± TO STA. 53+00± RT
NB -L- STA. 57+50± TO STA. 90+00±

APPROVED: *Michael T. Rzepka* DATE: 9-2-11

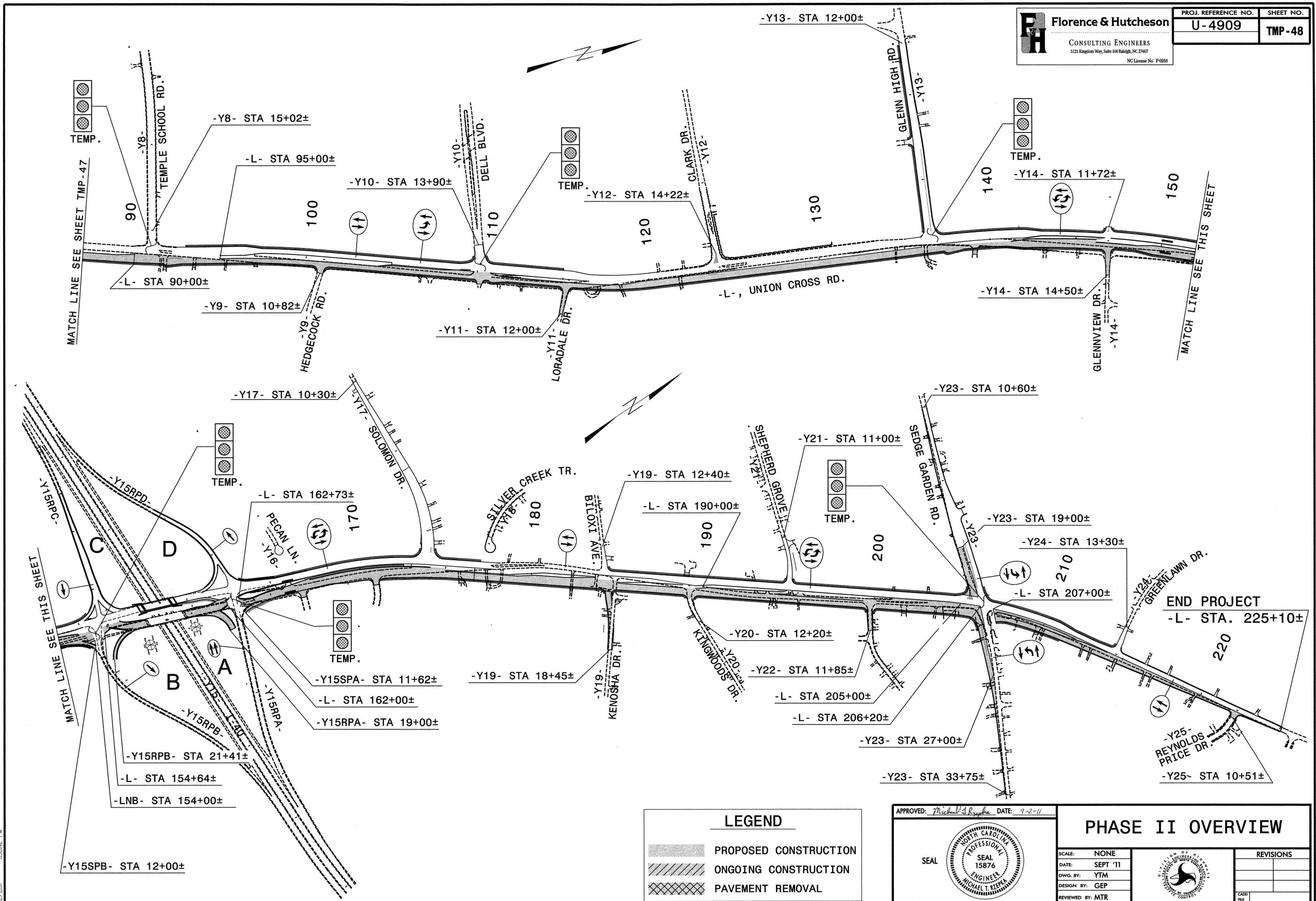


PHASE II PHASING

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DWG. BY: YTM
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REVIEWED BY: MTR



REVISIONS	



LEGEND

- PROPOSED CONSTRUCTION
- ONGOING CONSTRUCTION
- PAVEMENT REMOVAL

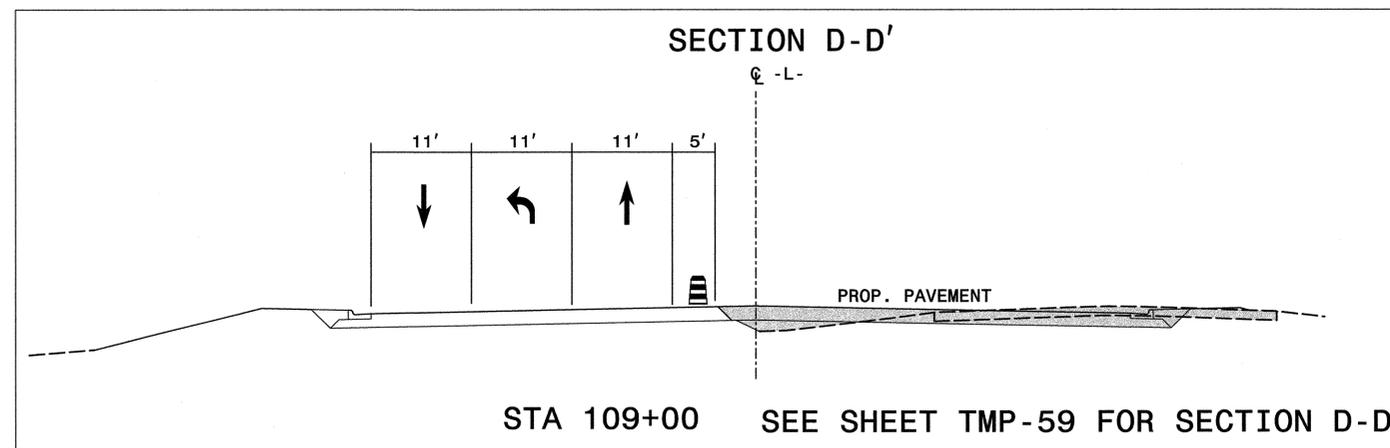
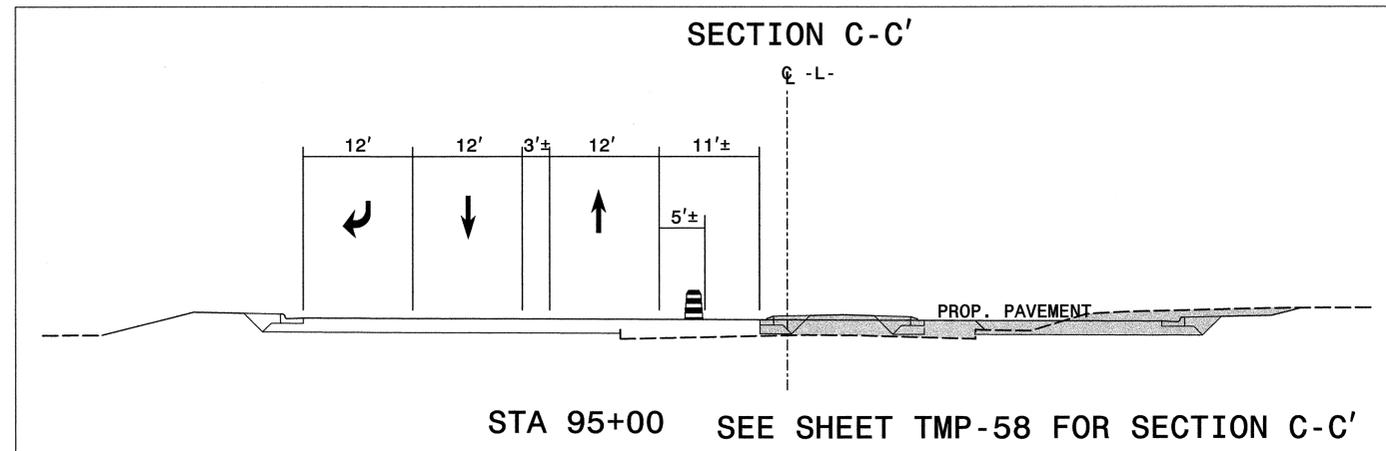
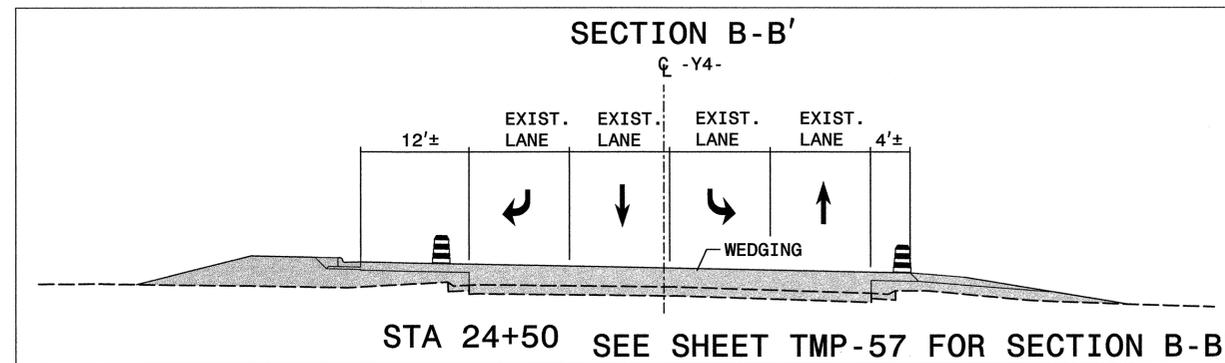
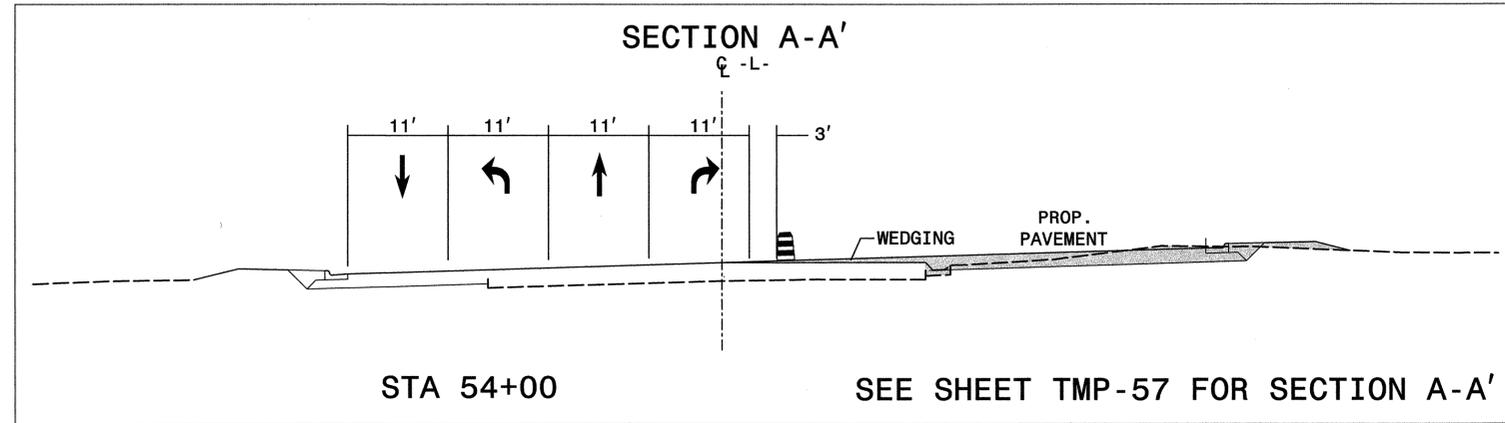
APPROVED: *Michael T. Kiewa* DATE: 9-2-11

SEAL

PHASE II OVERVIEW

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APPROVED: *Michael S. Ryznar* DATE: 9-2-11



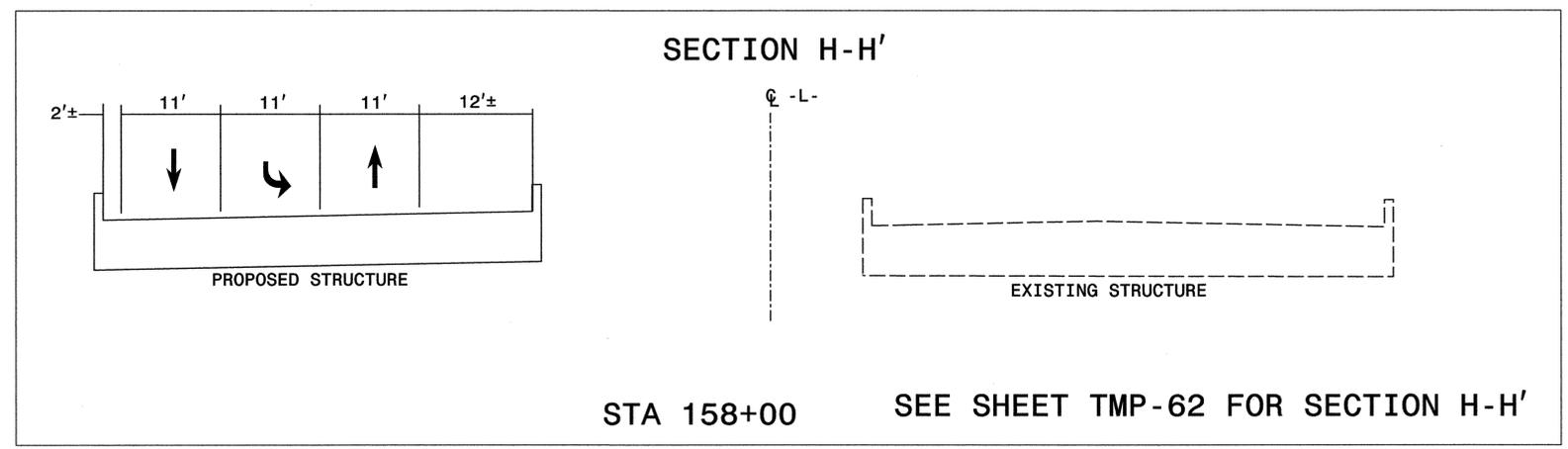
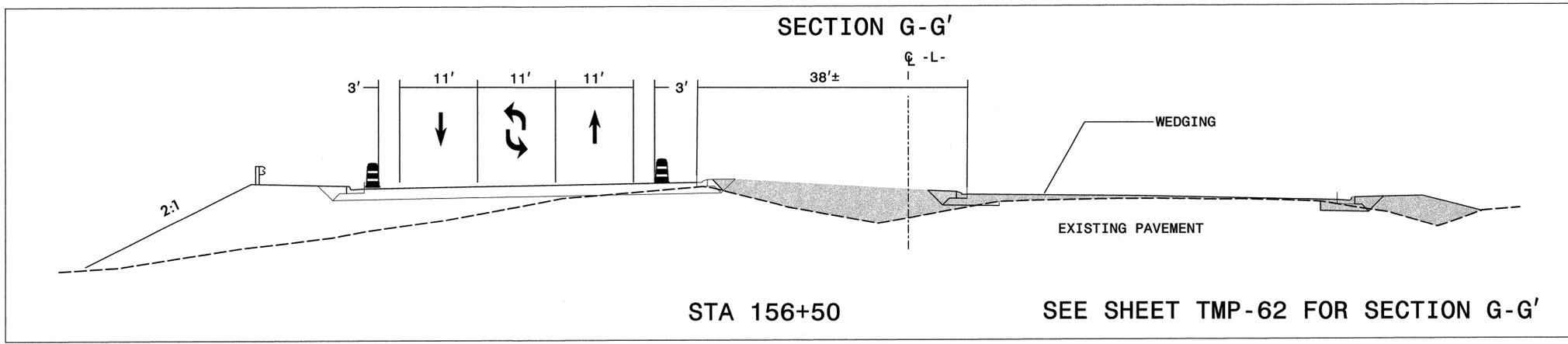
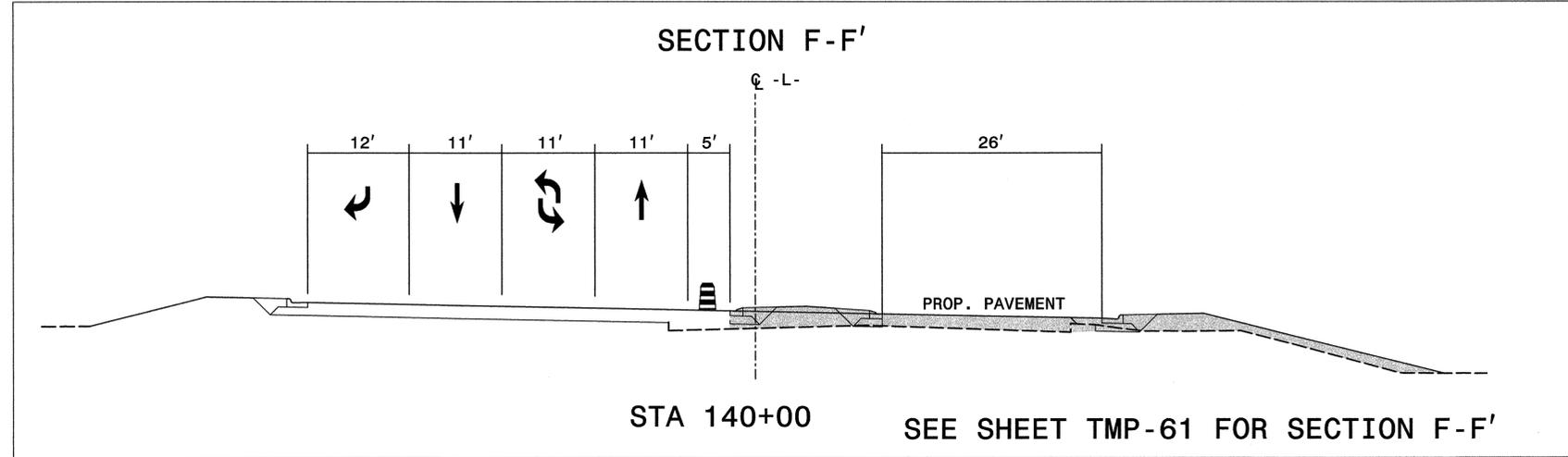
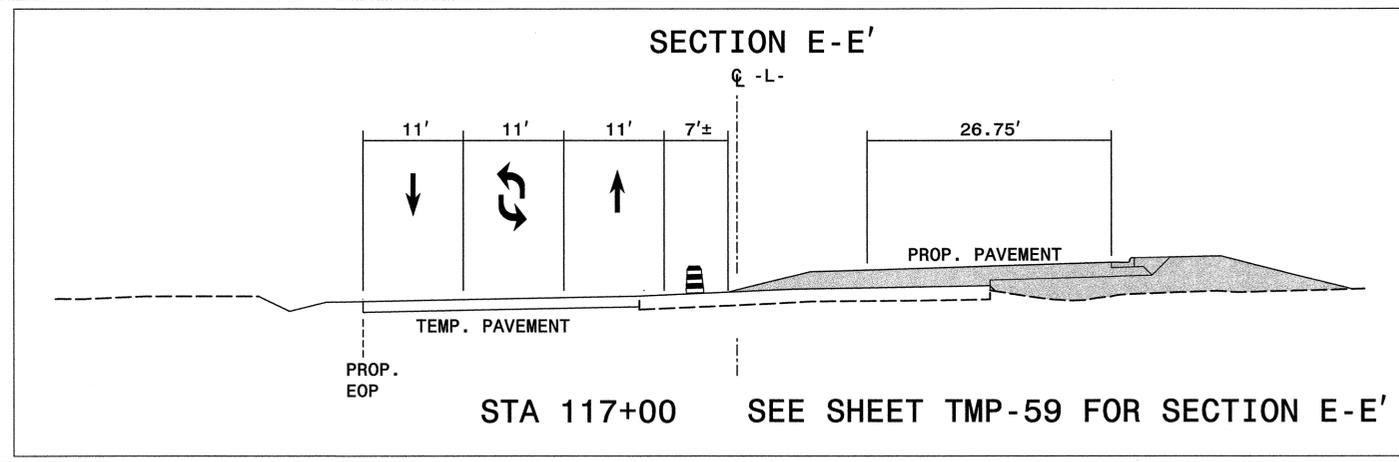
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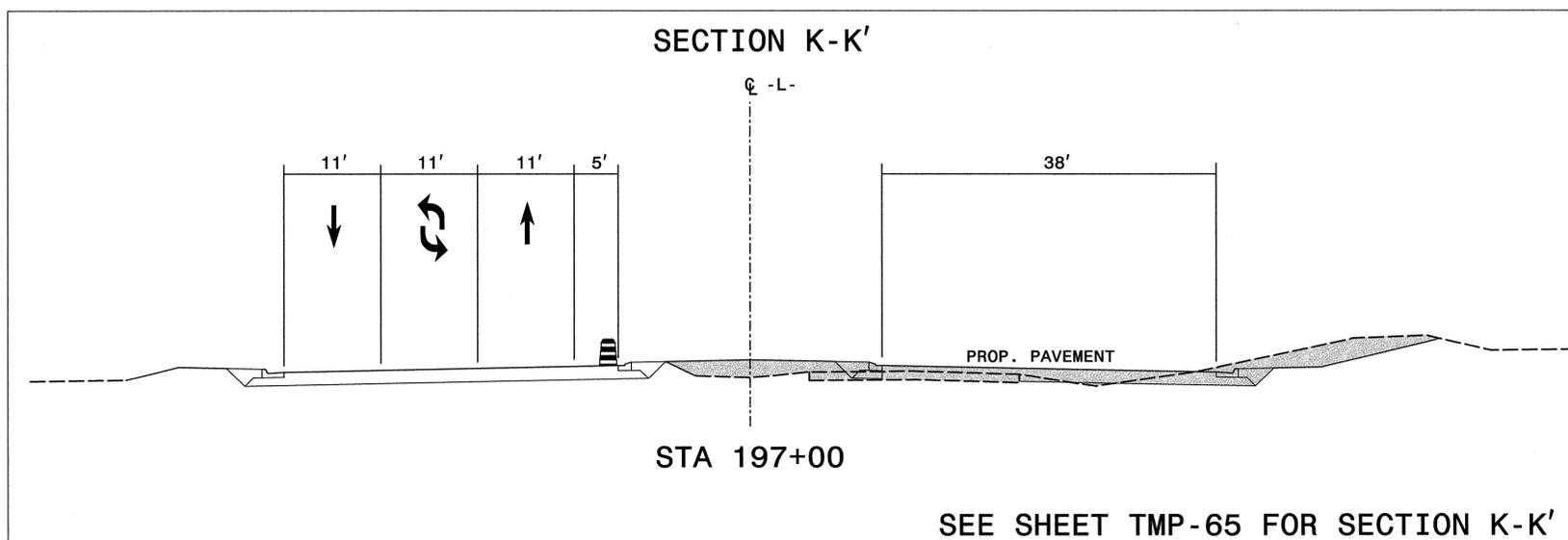
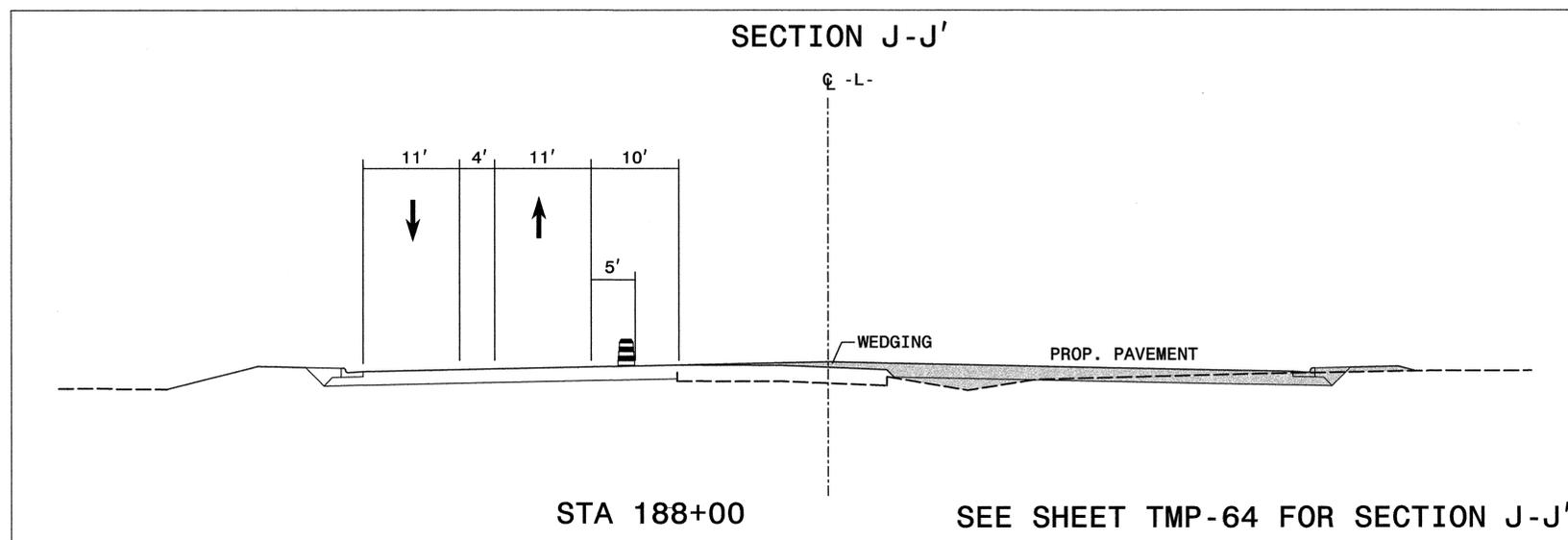
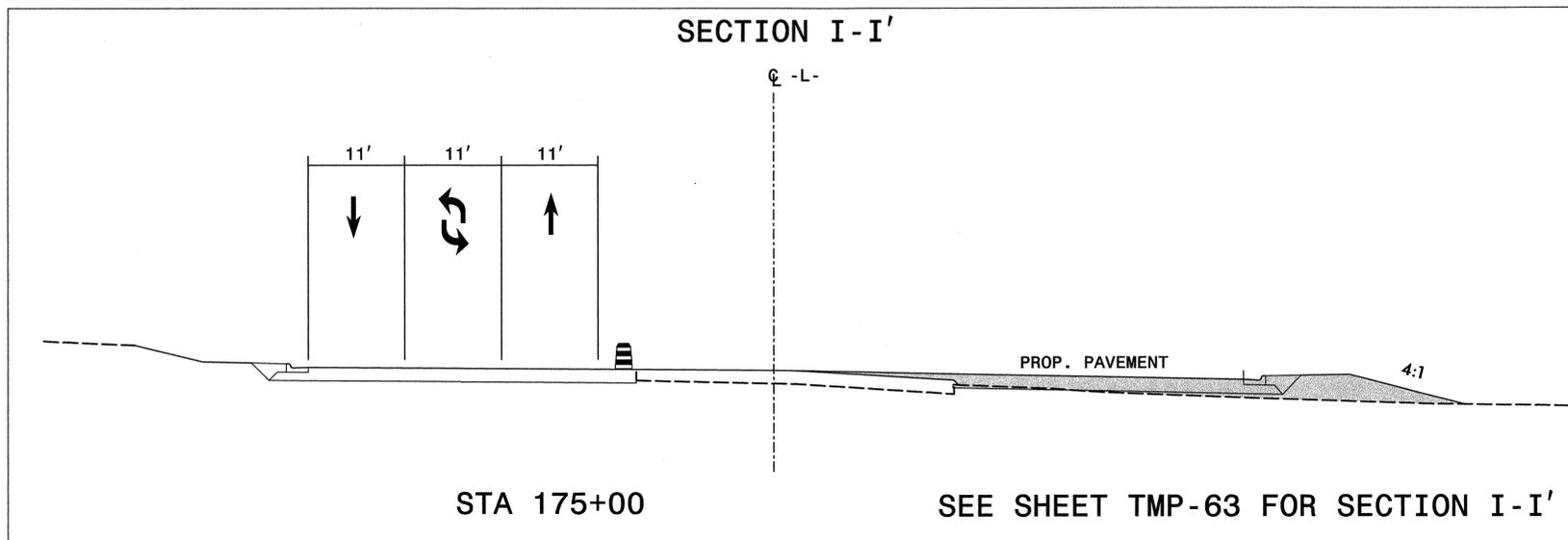


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APPROVED: *Michael T. Rzewny* DATE: 9-2-11

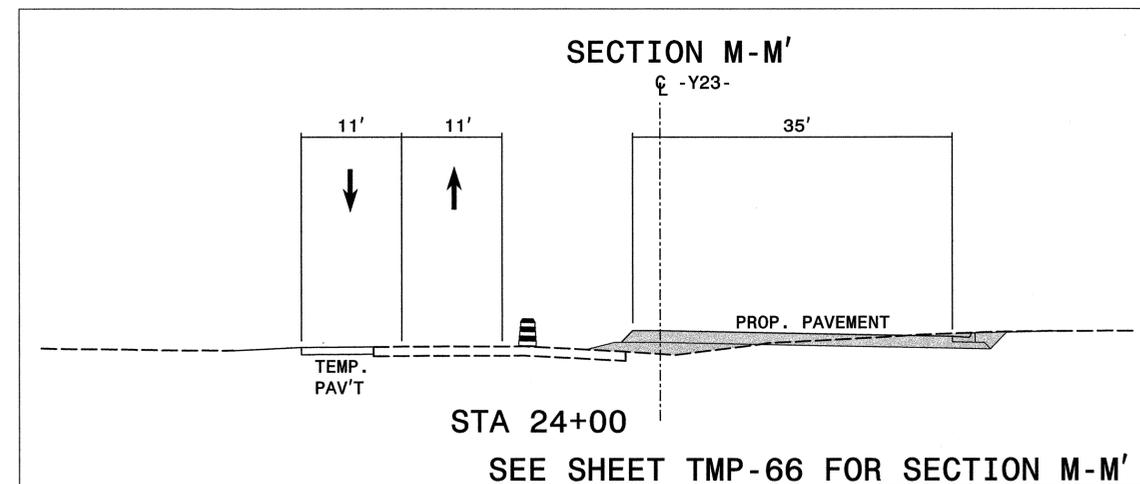
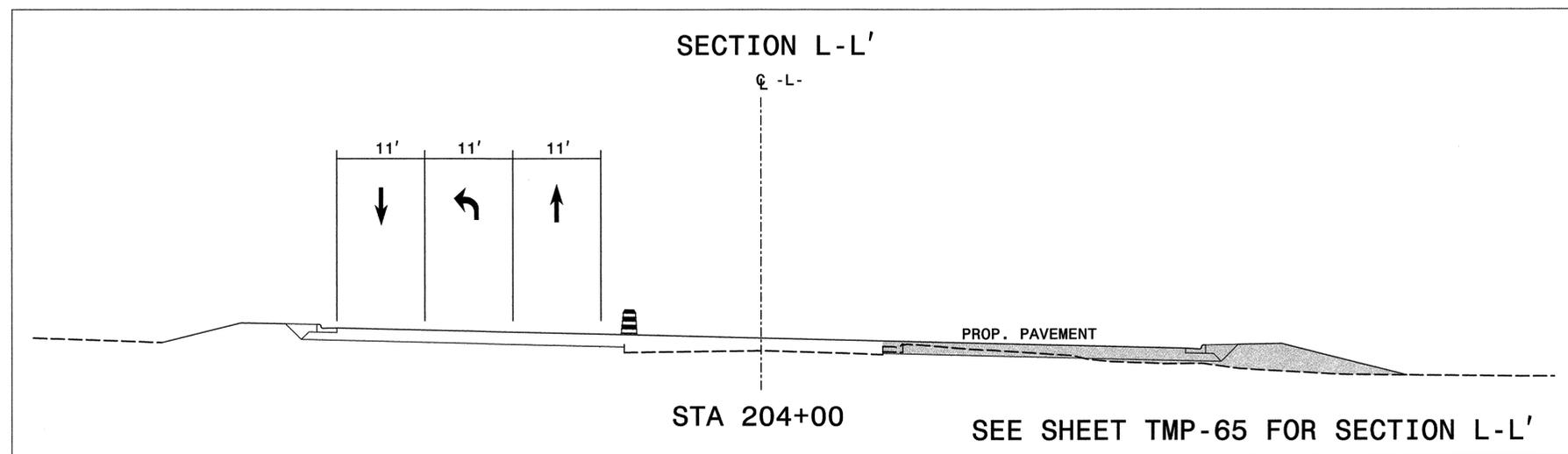


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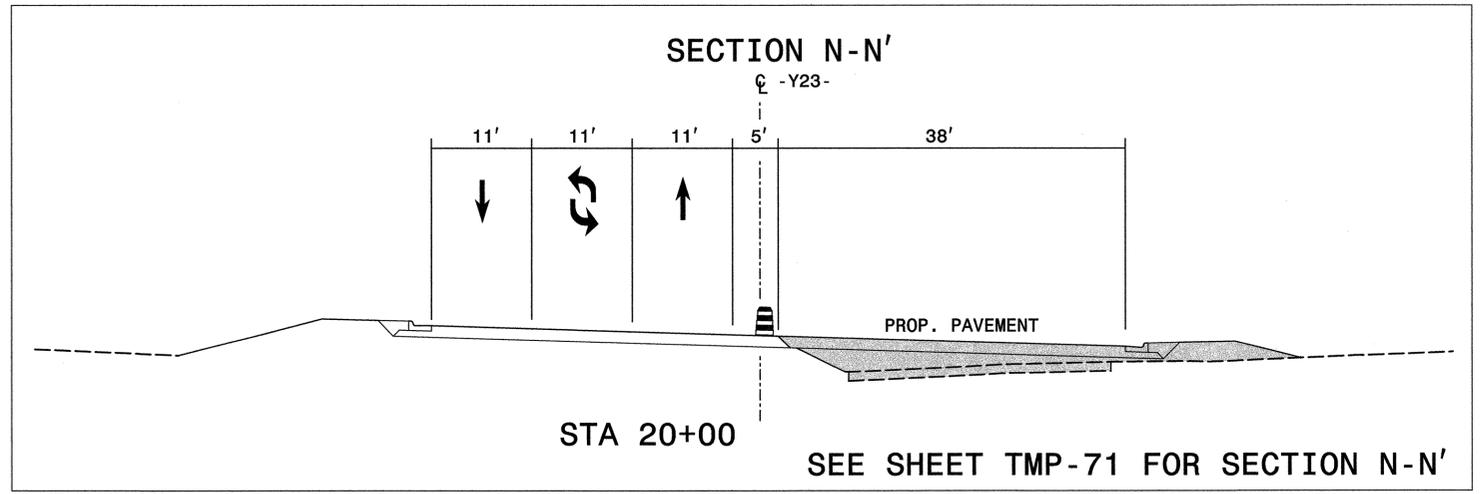


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		REVIEWED BY: MTR		

BEGIN PROJECT
 -L- STA. 8+15±

MATCH LINE STA 11+50
 SEE THIS SHEET

- L -, WALLBURG RD. (SR 2691)

-Y2-, SWAIN RD.
 (SR 4231)

20

25

EXISTING MARKINGS

-L-, UNION CROSS RD. (SR 2643)

-Y1-, UNION CROSS RD. (SR 2643)

-L- STA. 21+10±

-L- STA. 22+08±
 TIE TO EXISTING

-L- STA. 25+00±
 TIE TO EXISTING

-L- STA. 25+33±

MATCH LINE STA 26+00
 SEE SHEET TMP-55

-Y1-, HAYES DR.
 (SR 4232)

-L-, WALLBURG RD. (SR 2691)

BREAK LINE STA 20+00
 SEE SHEET TMP-68

MATCH LINE STA 11+50
 SEE THIS SHEET

APPROVED: *Michael T. Rzewny* DATE: 9-2-11



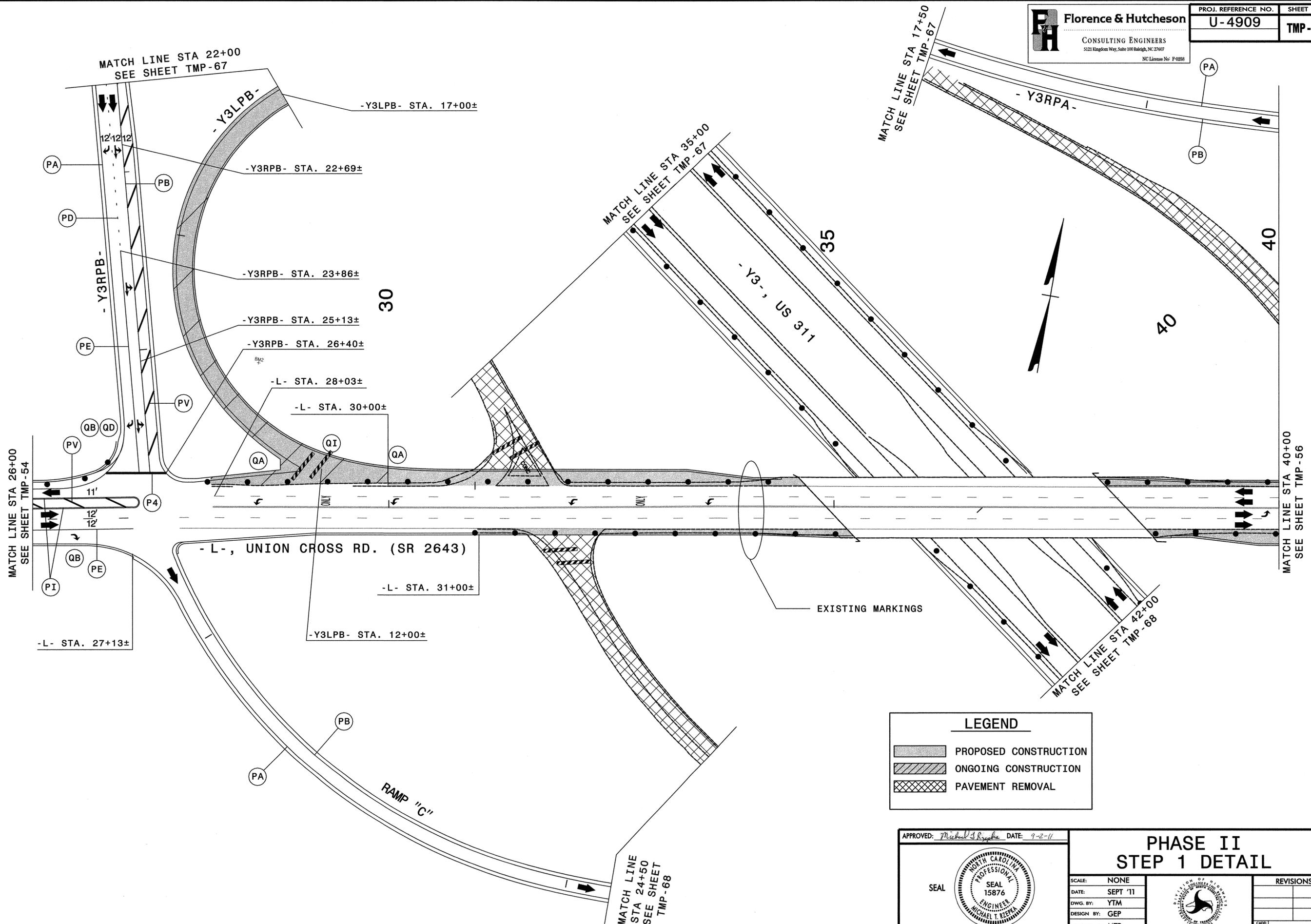
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LEGEND

- PROPOSED CONSTRUCTION
- ONGOING CONSTRUCTION
- PAVEMENT REMOVAL

APPROVED: *Michael T. Rzepka* DATE: 9-2-11



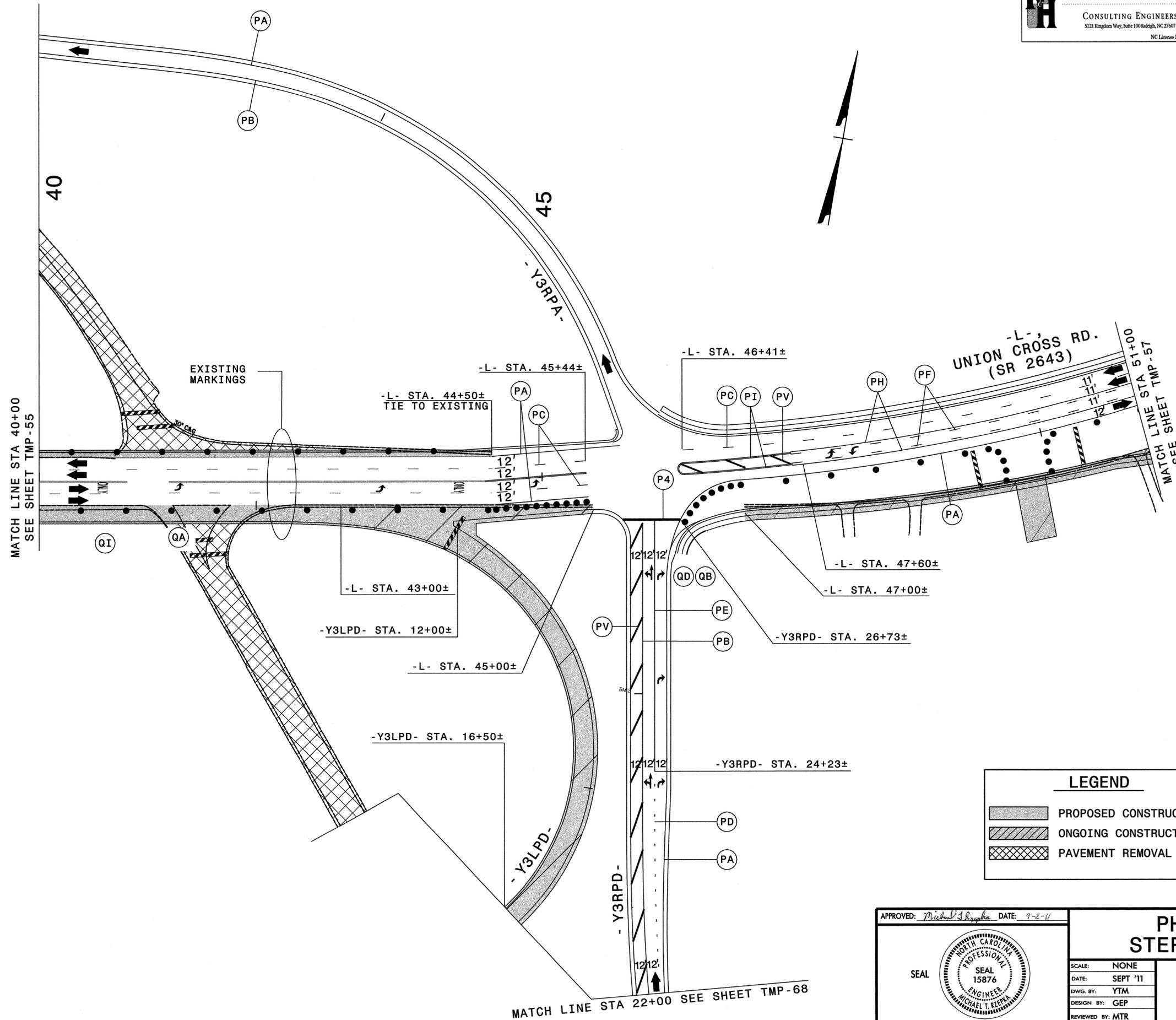
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 STEP 1 DETAIL**

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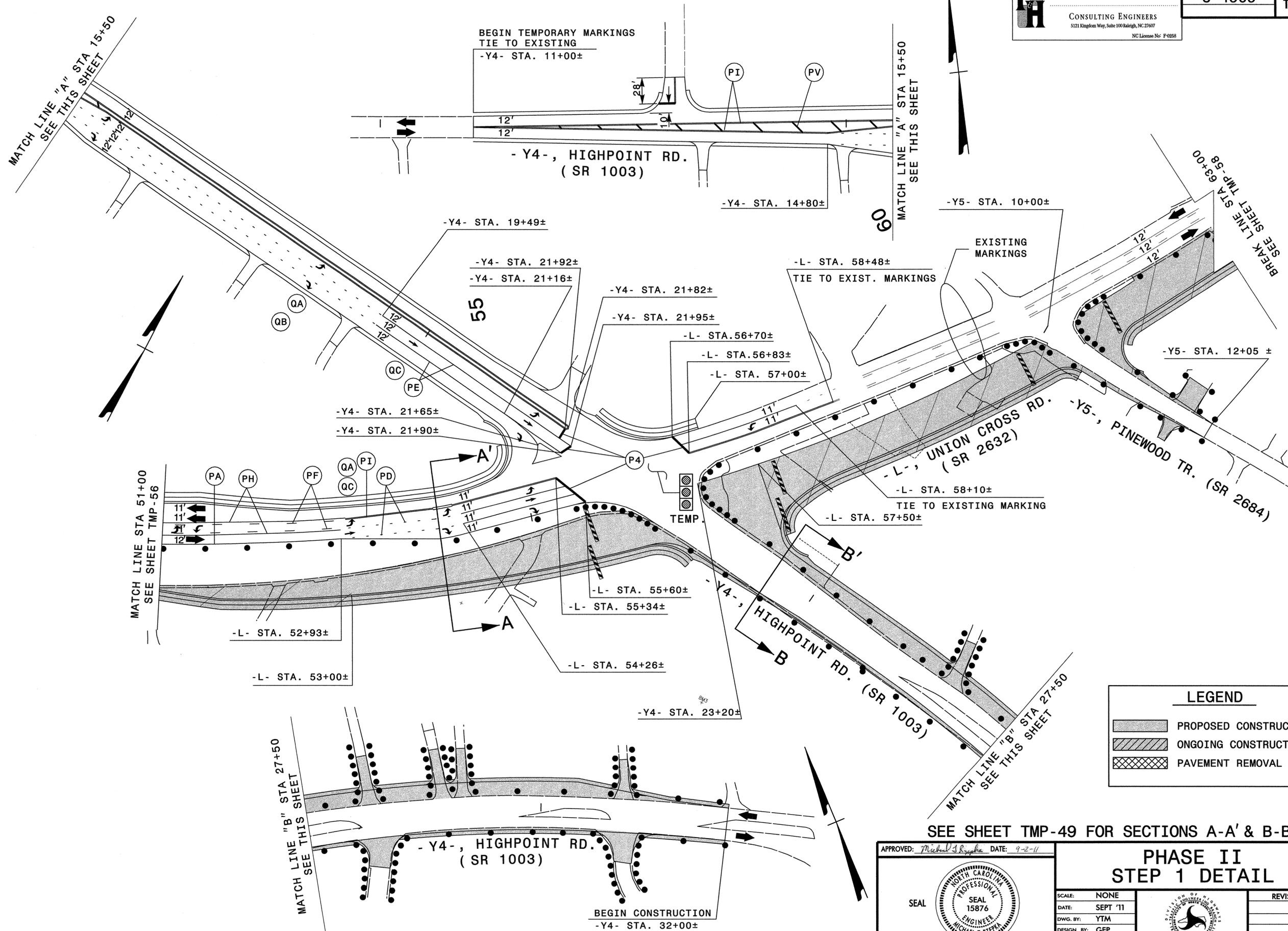
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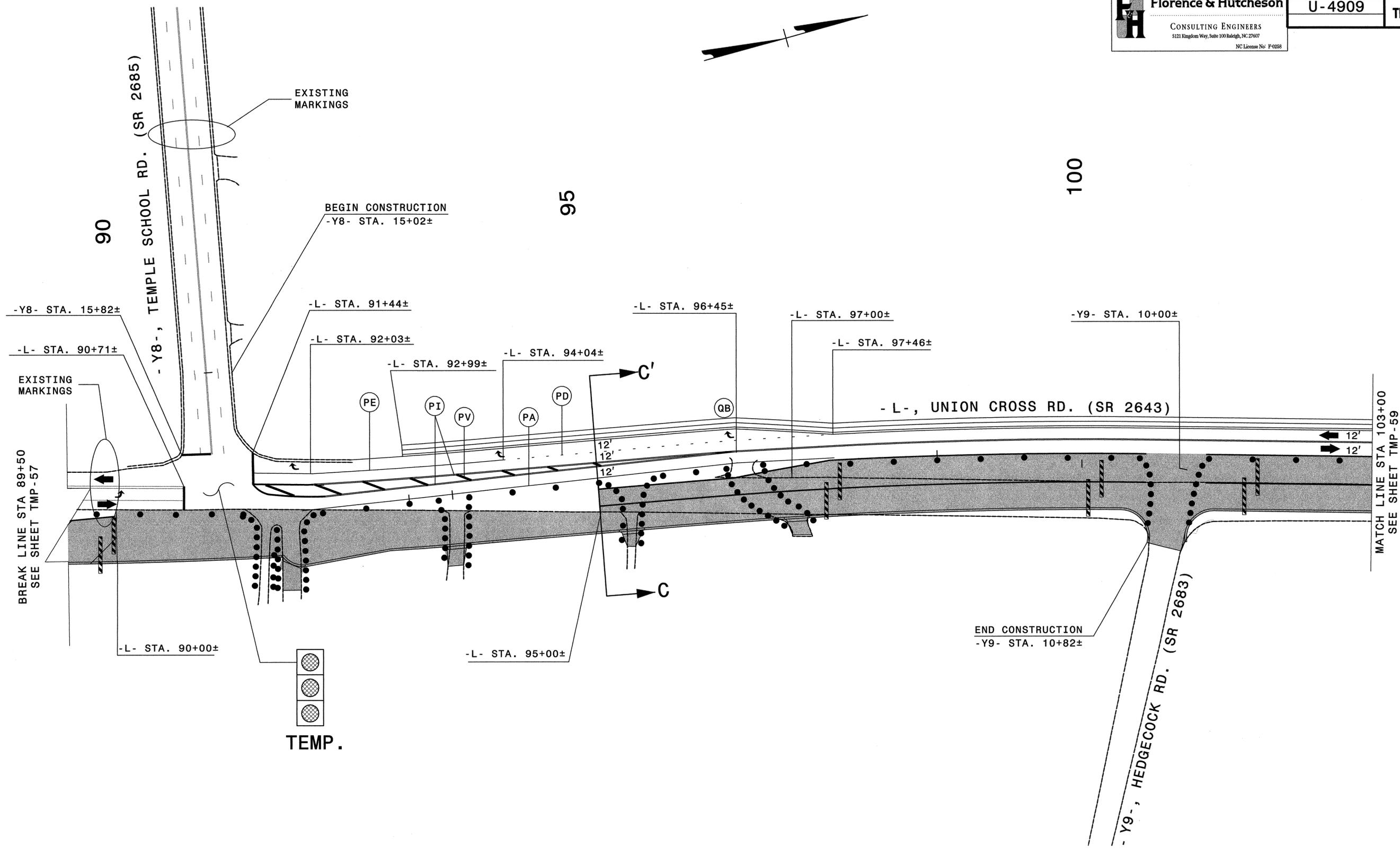
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SEE SHEET TMP-49 FOR SECTION C-C'

LEGEND	
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	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

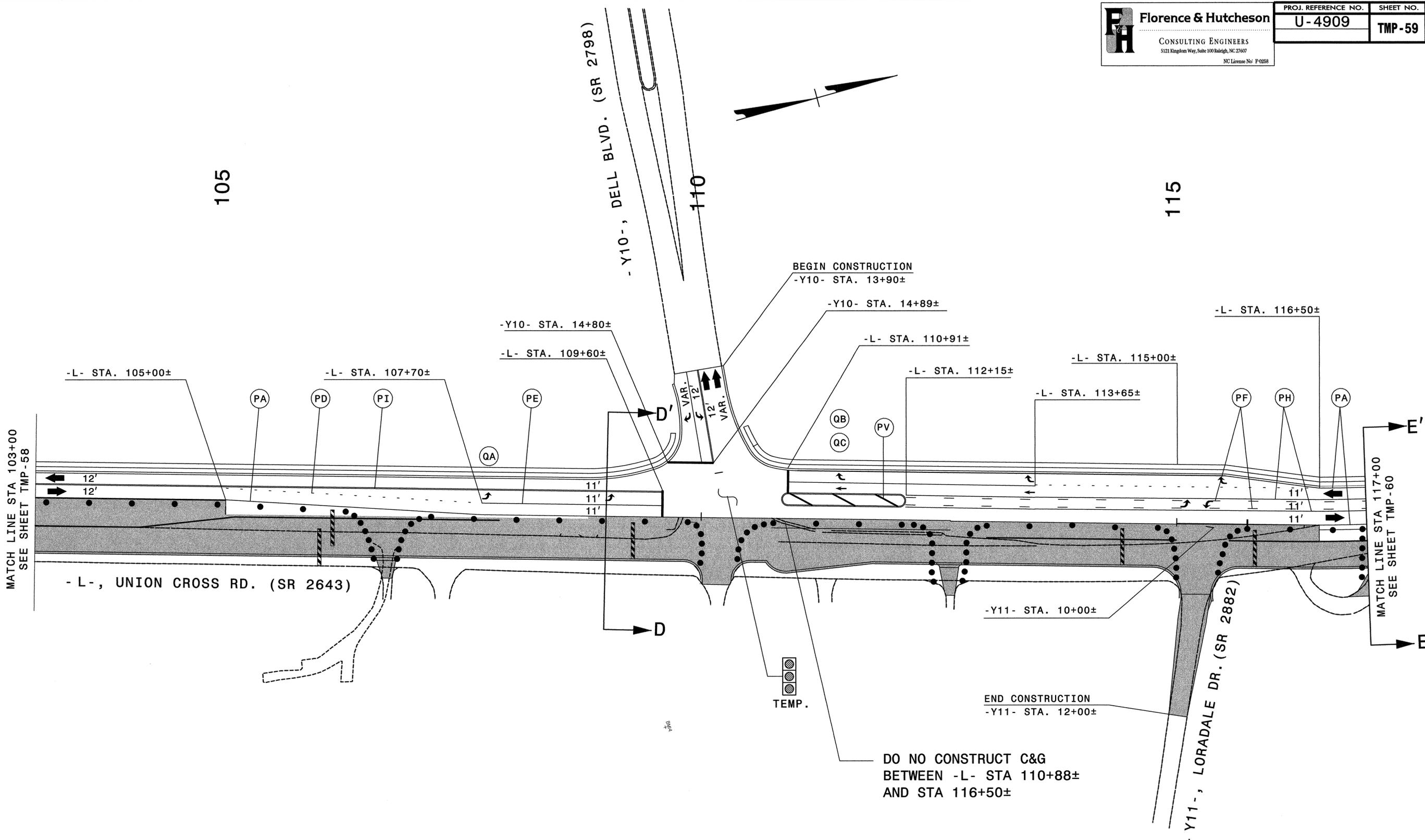
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SEAL

**PHASE II
STEP 1 DETAIL**

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MATCH LINE STA 103+00
SEE SHEET TMP-58

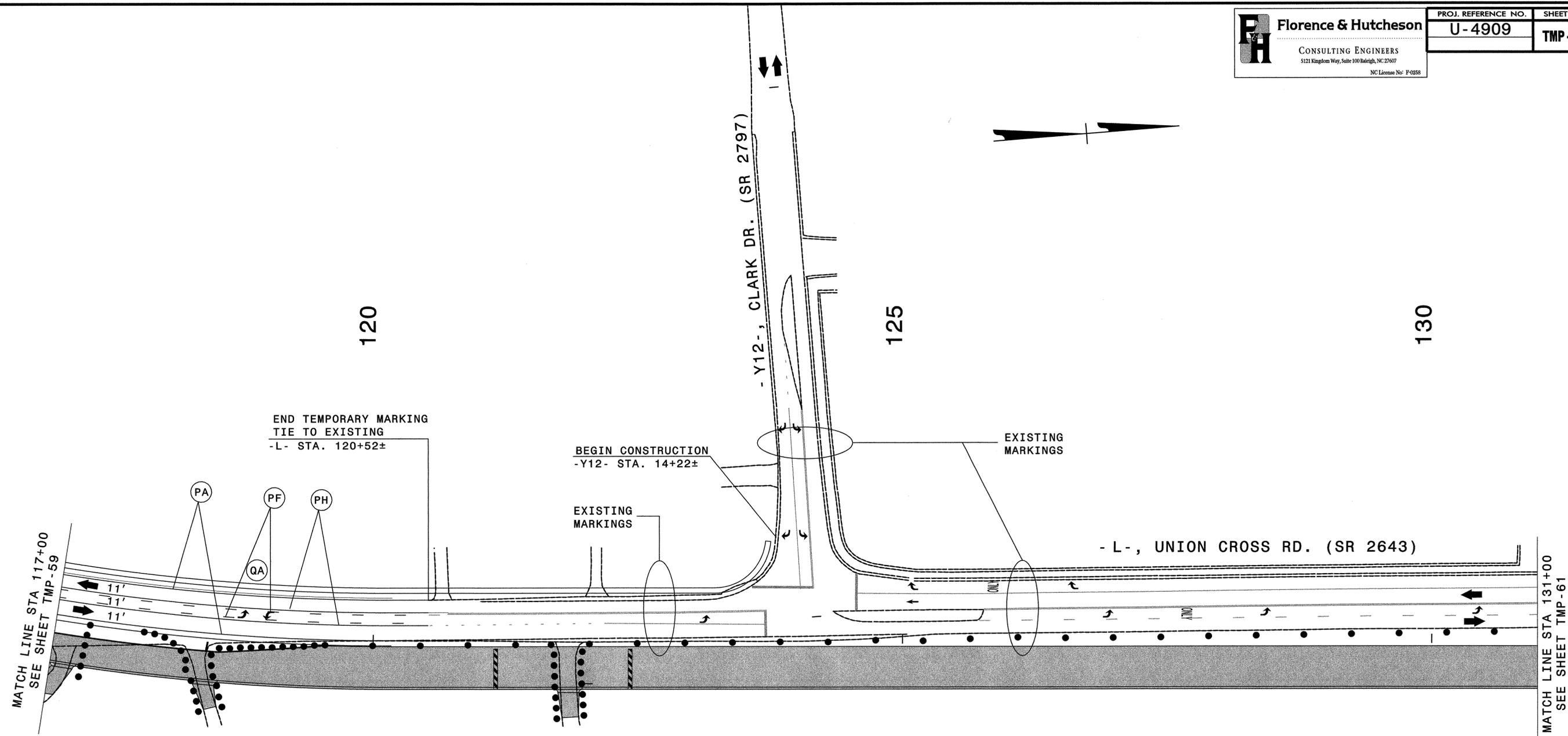
MATCH LINE STA 117+00
SEE SHEET TMP-60

LEGEND	
	PROPOSED CONSTRUCTION
	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

SEE SHEET TMP-49 FOR SECTIONS D-D'
SEE SHEET TMP-50 FOR SECTIONS E-E'

APPROVED: <i>Michael T. Rzepka</i> DATE: 9-2-11		PHASE II STEP 1 DETAIL	
SCALE: NONE		REVISIONS	
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LEGEND	
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	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

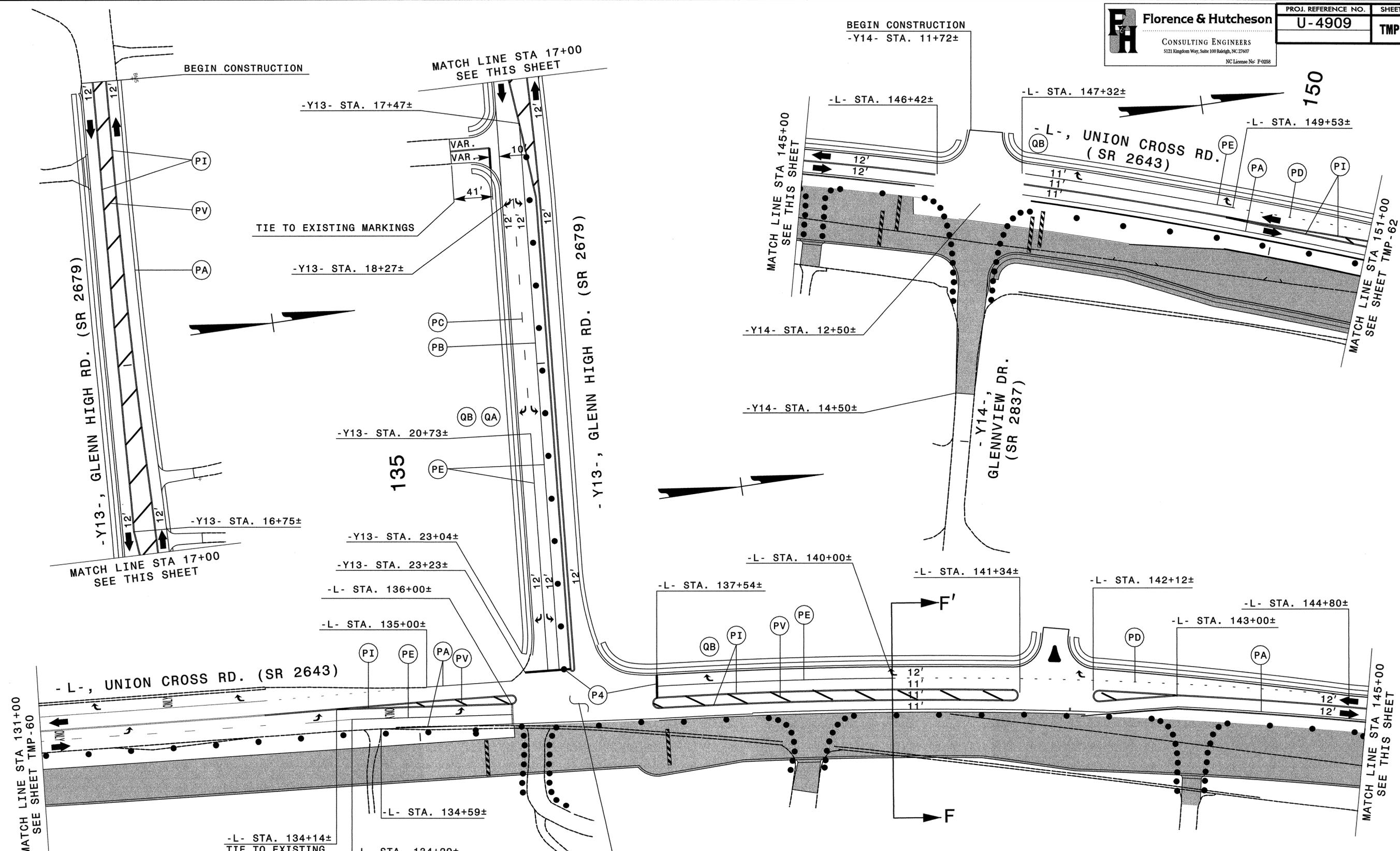
APPROVED: *Michael T. Kzepla* DATE: 9-2-11

SEAL

**PHASE II
STEP 1 DETAIL**

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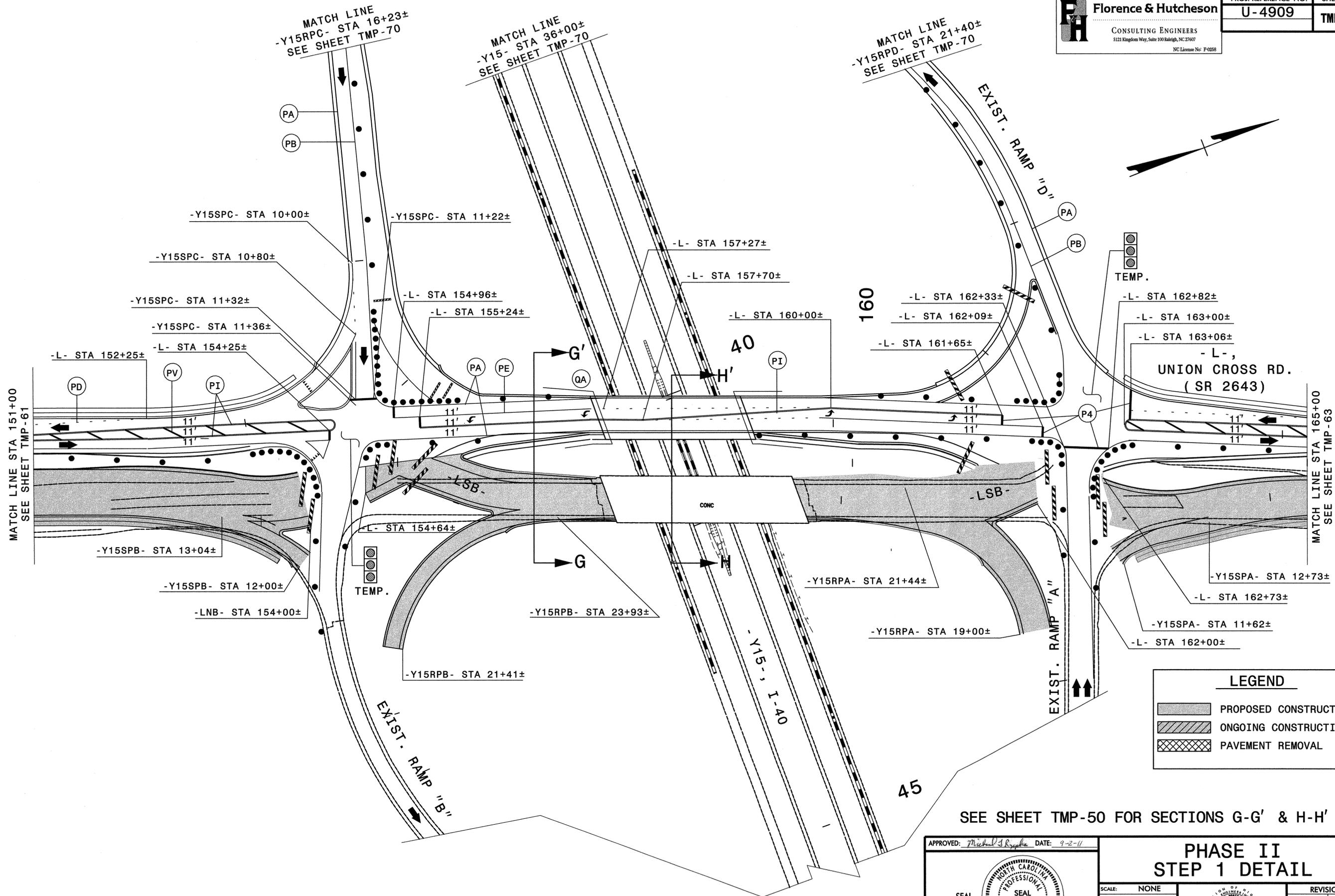


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LEGEND	
	PROPOSED CONSTRUCTION
	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

SEE SHEET TMP-50 FOR SECTION F-F'

APPROVED: <i>Michael T. Rzepka</i> DATE: 9-2-11 SEAL 	<h3>PHASE II STEP 1 DETAIL</h3>	SCALE: NONE DATE: SEPT '11 DWG. BY: YTM DESIGN BY: GEP REVIEWED BY: MTR				
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LEGEND	
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	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

SEE SHEET TMP-50 FOR SECTIONS G-G' & H-H'

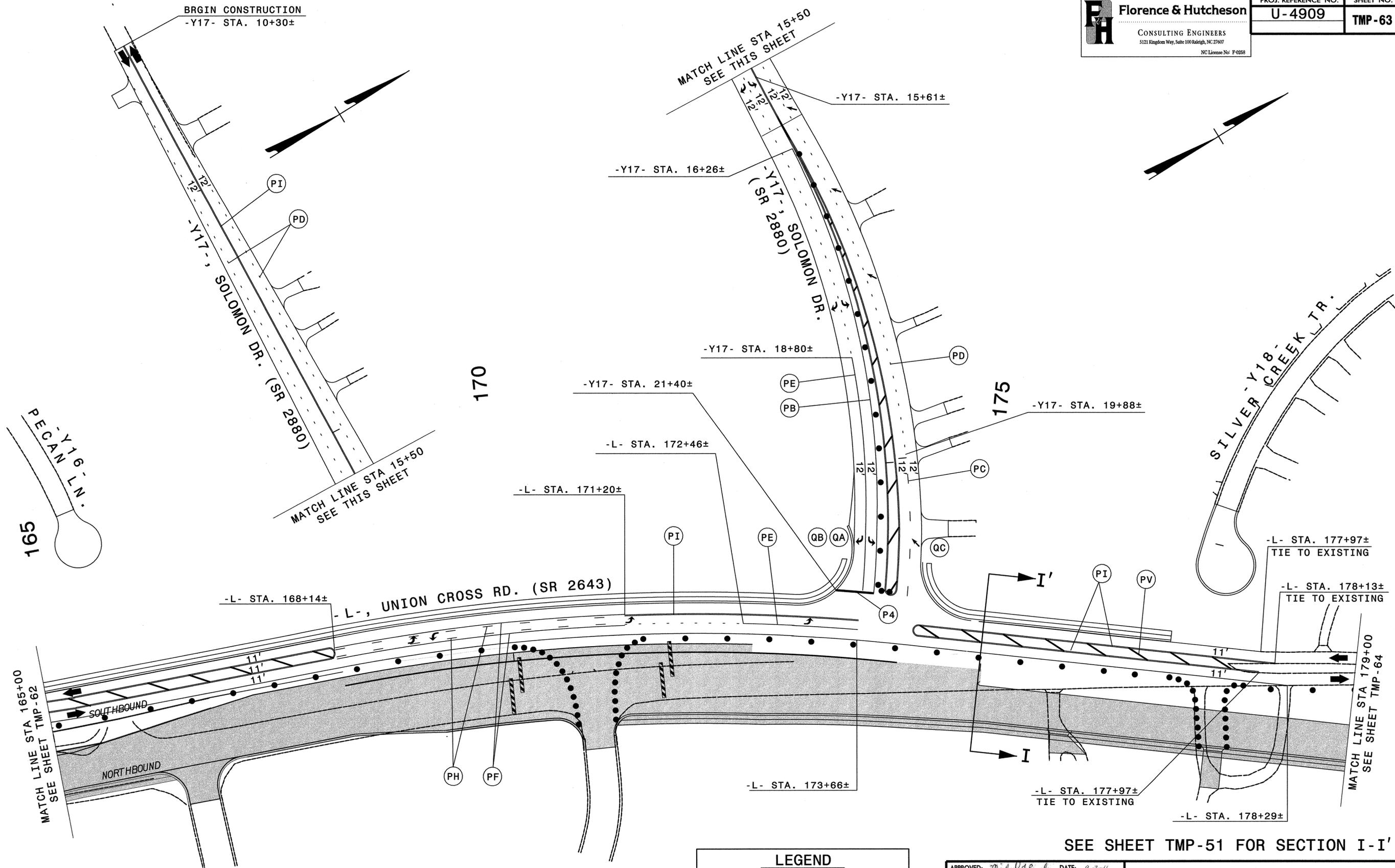
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**PHASE II
STEP 1 DETAIL**

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SEE SHEET TMP-51 FOR SECTION I-I'

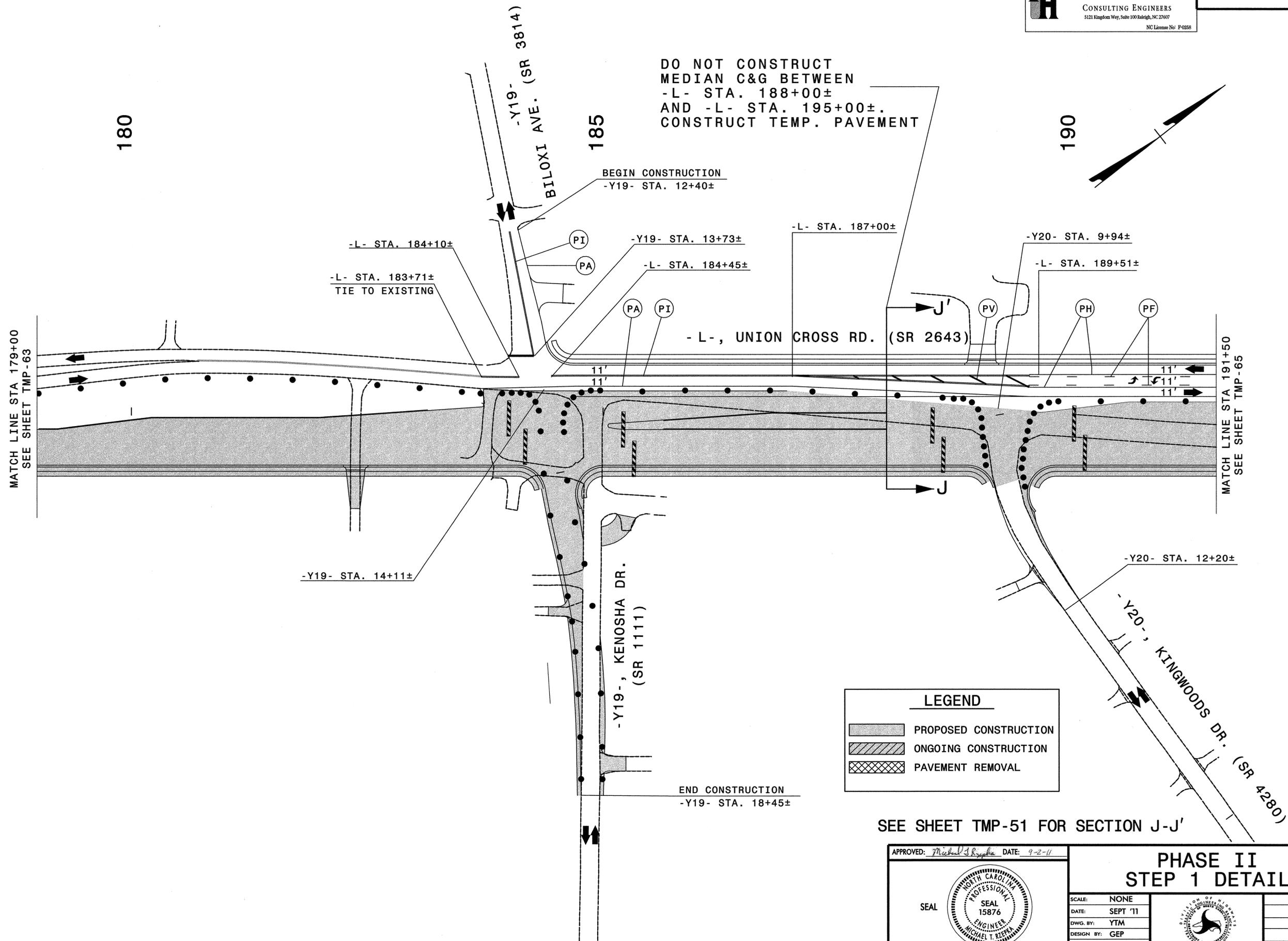
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	PAVEMENT REMOVAL

APPROVED: *Michael T. Rzewa* DATE: 9-2-11

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APPROVED: *Michael T. Rzepka* DATE: 9-2-11

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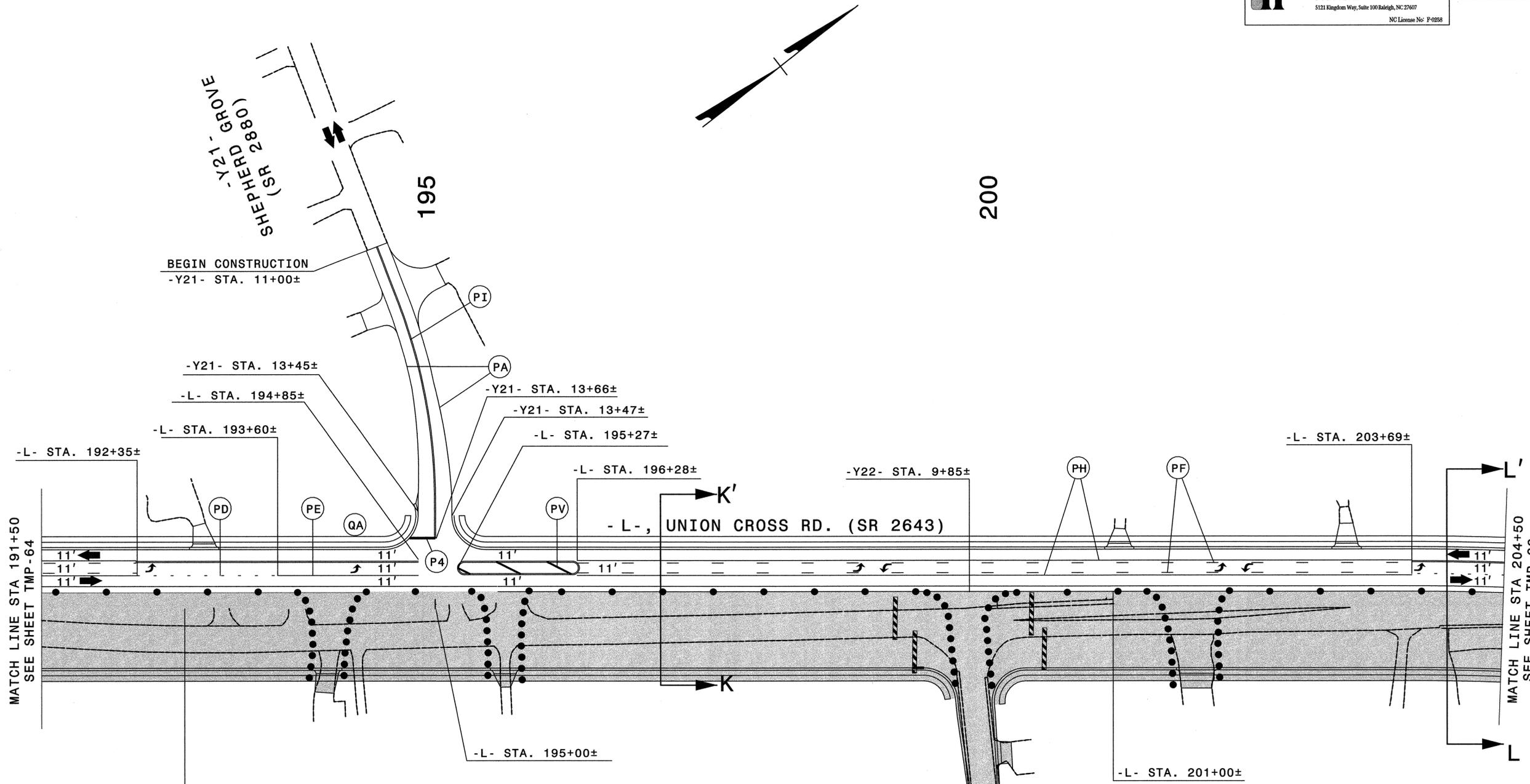
PROFESSIONAL SEAL
 15876
 ENGINEER
 MICHAEL T. RZEPKA

**PHASE II
 STEP 1 DETAIL**

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BEGIN CONSTRUCTION
 -Y21- STA. 11+00±

-Y21- STA. 13+45±

-L- STA. 194+85±

-L- STA. 193+60±

-L- STA. 192+35±

-Y21- STA. 13+66±

-Y21- STA. 13+47±

-L- STA. 195+27±

-L- STA. 196+28±

-Y22- STA. 9+85±

-L- STA. 203+69±

- L - , UNION CROSS RD. (SR 2643)

-L- STA. 195+00±

-L- STA. 201+00±

DO NOT CONSTRUCT
 MEDIAN C&G BETWEEN
 -L- STA. 188+00±
 AND -L- STA. 195+00±.
 CONSTRUCT TEMP. PAVEMENT

END CONSTRUCTION
 -Y22- STA. 11+85±

-Y22-
 SOMERSET
 CROSSING LN.
 (SR 4334)

MATCH LINE STA 191+50
 SEE SHEET TMP-64

MATCH LINE STA 204+50
 SEE SHEET TMP-66

LEGEND	
	PROPOSED CONSTRUCTION
	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

SEE SHEET TMP-51 FOR SECTIONS K-K'
 SEE SHEET TMP-52 FOR SECTIONS L-L'

APPROVED: <i>Michael T. Rzepka</i> DATE: 9-2-11	PHASE II STEP 1 DETAIL	
SCALE: NONE		REVISIONS
DATE: SEPT '11		
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MATCH LINE STA 22+00
 SEE SHEET TMP-56

MATCH LINE STA 42+00
 SEE SHEET TMP-55

MATCH LINE STA 54+00
 SEE SHEET TMP-69

-Y3-, US 311

-Y1-, HAYES DR. (SR 4232)

-Y3LPD- STA. 19+09±

-Y3LPD- STA. 16+50±

-Y3RPD- STA. 21+00±

-Y3RPD- STA. 19+50±

-Y3- STA. 50+88±

-Y3RPC- STA. 10+00±

-Y1- STA. 37+05±

LEGEND

-  PROPOSED CONSTRUCTION
-  ONGOING CONSTRUCTION
-  PAVEMENT REMOVAL

APPROVED: *Michael T. Rzepka* DATE: 9-2-11

SEAL

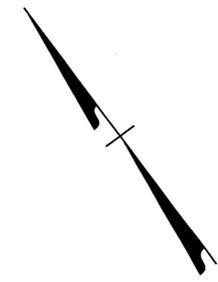


**PHASE II
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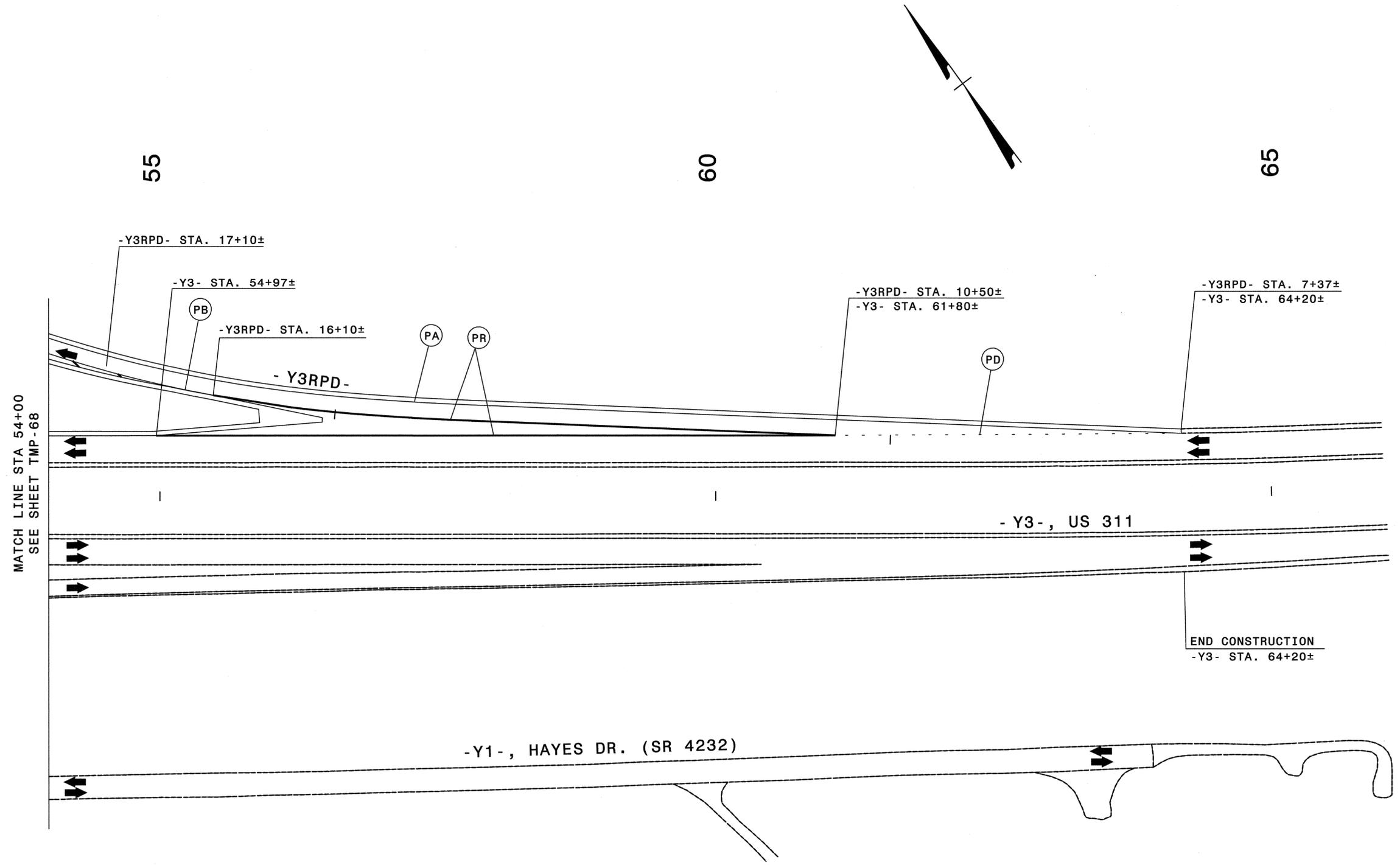
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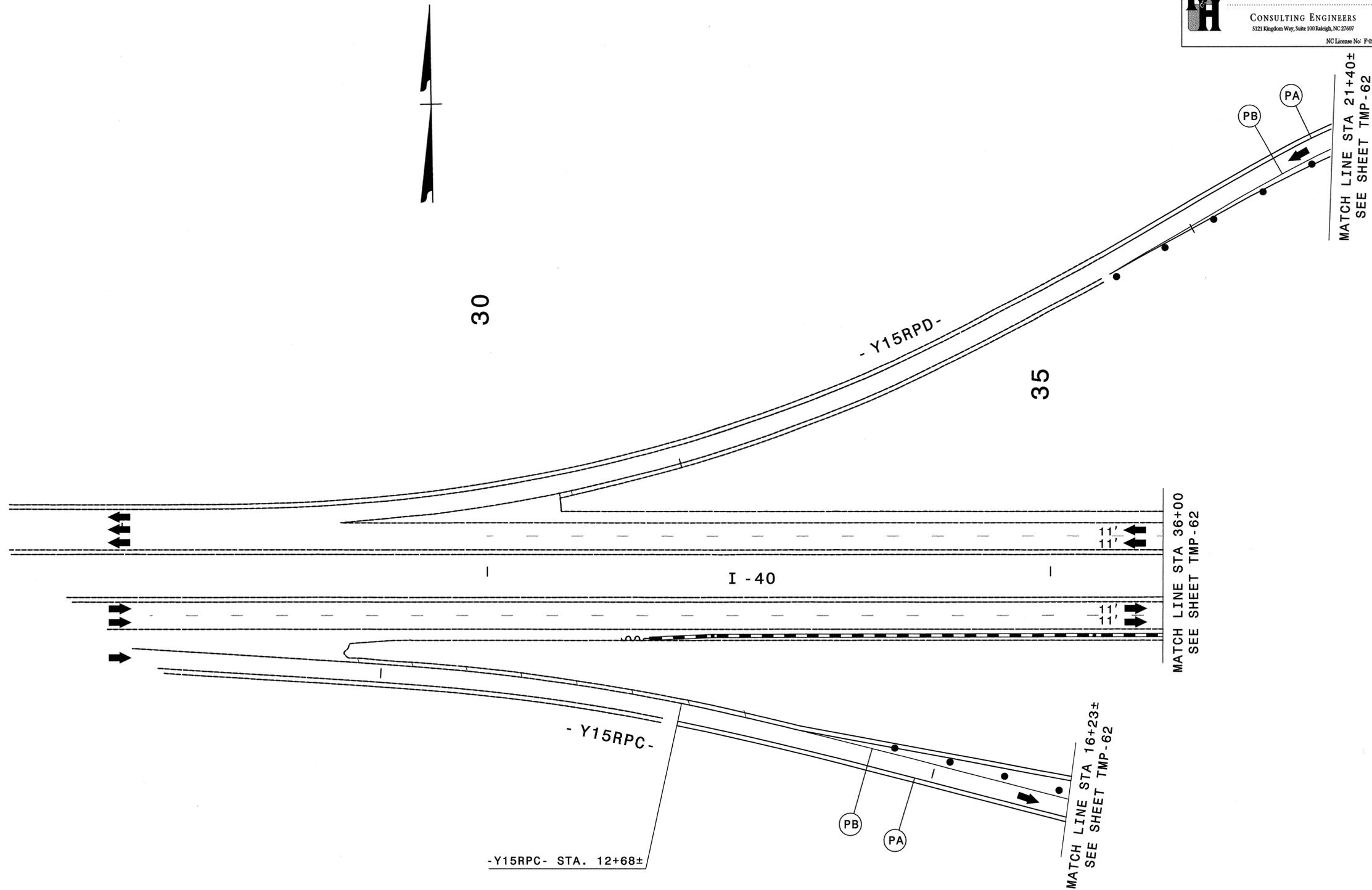
MATCH LINE
 STA 24+50
 SEE SHEET TMP-55

BREAK LINE
 STA 32+00±
 SEE SHEET TMP-54



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APPROVED: <i>Michael J. Rzepka</i> DATE: 9-2-11		PHASE II STEP 1 DETAIL	
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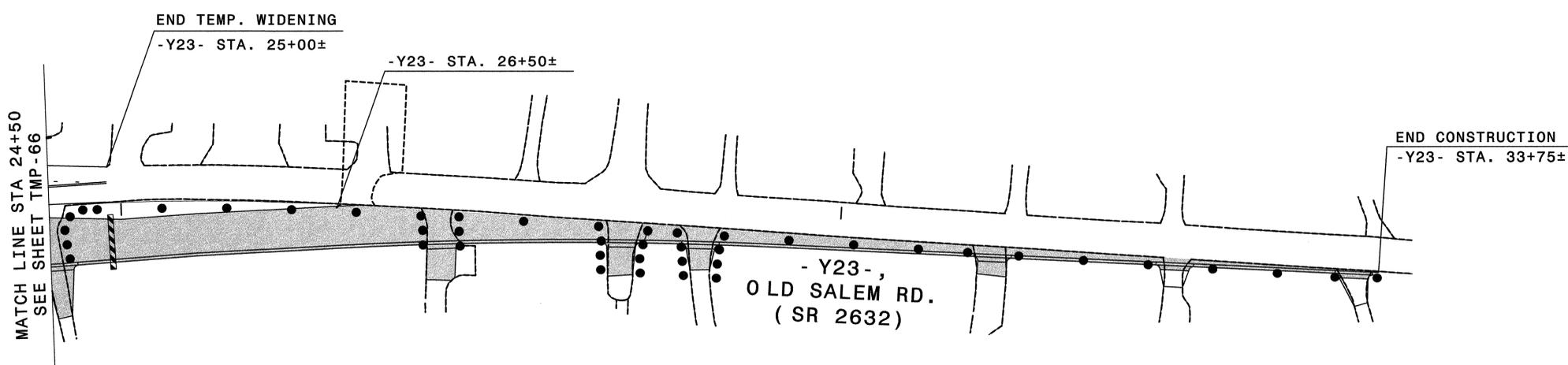
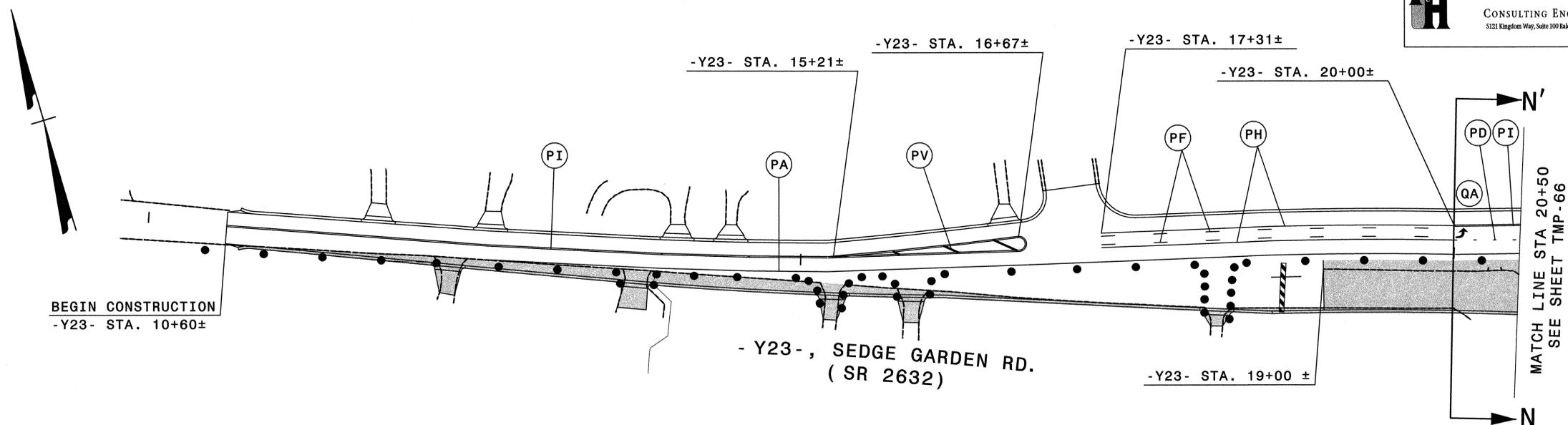
LEGEND	
	PROPOSED CONSTRUCTION
	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

APPROVED: *Michael T. Rzepka* DATE: 9-2-11

SEAL

**PHASE II
STEP 1 DETAIL**

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DATE: SEPT '11		
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REVIEWED BY: MTR		



SEE SHEET TMP-53 FOR SECTION N-N'

LEGEND	
	PROPOSED CONSTRUCTION
	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

APPROVED: *Michael T. Rzepka* DATE: 9-2-11

SEAL

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PHASING

PHASE III

STEP 1

COMPLETE CONSTRUCTION OF -L- (UNION CROSS RD.) AND ALL -Y- LINES STARTED IN PHASES I & II, EXCEPT FOR SECTION OF -L- ON RIGHT SIDE FROM -L- STA. 195+00± TO -L- STA. 225+10±. (SEE SHEETS TMP-91 AND TMP-92) INSTALL TEMPORARY TRAFFIC SIGNALS AT THE FOLLOWING INTERSECTIONS:

- L- AND -Y4-, HIGH POINT RD. (SR 1003) (SEE SIGNAL PLANS AND TMP-81)
- L- AND -Y8-, TEMPLE SCHOOL RD. (SR 2685) (SEE SIGNAL PLANS AND TMP-84)
- L- AND -Y10-, DELL BLVD. (SR 2798) (SEE SIGNAL PLANS AND TMP-85)
- L- AND -Y13-, GLENN HIGH RD. (SR 2679) (SEE SIGNAL PLANS AND TMP-87)
- L- AND -Y23-, SEDGE GARDEN RD. (SR 2632) (SEE SIGNAL PLANS AND TMP-92)

AWAY FROM TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKING LINES AND MARKERS ON THE COMPLETED LANES (INCLUDING -Y- LINES) WHICH CAN BE PLACED WITHOUT INTERFERING WITH EXISTING MARKINGS FROM -L- STA. 8+15± TO -L- STA. 193+98±. (SEE SHEETS TMP-78 THRU TMP-92)

COMPLETE THE WORK REQUIRED OF PHASE III, STEP 2 FROM 8:00 PM FRIDAY TO 6:00 AM MONDAY. (SEE SPECIAL PROVISIONS AND LIQUIDATED DAMAGES)

STEP 2

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1, 2, 3 & 4 OF 9, AND/OR LAW ENFORCEMENT IN ONE CONTINUOUS OPERATION, INSTALL REMAINING TEMPORARY PAVEMENT MARKING LINES, SYMBOLS, AND MARKERS, MODIFY EXISTING MARKINGS AND SHIFT UNION CROSS RD. TRAFFIC INTO THE TEMPORARY ALIGNMENT FROM -L- STA. 8+15± TO -L- STA. 193+98±. (SEE SHEETS TMP-78 THRU TMP-91).

REMOVE LANE CLOSURES AND ACTIVATE TEMPORARY TRAFFIC SIGNALS AT THE FOLLOWING INTERSECTIONS:

- L- AND -Y4-, HIGH POINT RD. (SR 1003) (SEE SIGNAL PLANS AND TMP-81)
- L- AND -Y8-, TEMPLE SCHOOL RD. (SR 2685) (SEE SIGNAL PLANS AND TMP-84)
- L- AND -Y10-, DELL BLVD. (SR 2798) (SEE SIGNAL PLANS AND TMP-85)
- L- AND -Y13-, GLENN HIGH RD. (SR 2679) (SEE SIGNAL PLANS AND TMP-87)
- L- AND -Y23-, SEDGE GARDEN RD. (SR 2632) (SEE SIGNAL PLANS AND TMP-92)

STEP 3

USING ROADWAY DESIGN STANDARD DRAWING NO. 1101.02, SHEETS 1 & 2 OF 9, CONSTRUCT PROPOSED UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS:

- SB -L- STA. 57+00± TO STA. 90+50± (INCL. MEDIAN) (SEE SHEETS TMP-81 THRU TMP-84)
- SB -L- STA. 115+00± TO STA. 136+00± (INCL. MEDIAN) (SEE SHEETS TMP-85 THRU TMP-87)
- SB -L- STA. 178+00± TO STA. 183+75± (INCL. MEDIAN) (SEE SHEETS TMP-89 AND TMP-90)
- NB -L- STA. 206+20± TO STA. 207+00± (INCL. MEDIAN) (SEE SHEET TMP-92)
- Y23- FROM PROPOSED -L- TO STA. 27+00± (LEFT SIDE) (SEE SHEETS TMP-92 AND TMP-95)
- Y23- STA. 27+00± TO STA. 33+75± (WEDGE AND WIDEN) (SEE SHEET TMP-95)

AWAY FROM TRAFFIC, CONSTRUCT THE FOLLOWING:

CURB & GUTTER AND SIDEWALK ON LEFT SIDE OF -L-, UNION CROSS RD. (SR 2643) FROM -Y8-, TEMPLE SCHOOL RD. (SR 2685) TO -L- STA. 92+97±. (SEE SHEET TMP-84)

CURB & GUTTER AND SIDEWALK ON LEFT SIDE OF -L-, UNION CROSS RD. (SR 2643) FROM -L- STA. 177+00± TO -L- STA. 178+00±. (SEE SHEET TMP-89)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, BEGIN INSTALLATION OF PROPOSED SIGNALS AT THE FOLLOWING INTERSECTIONS (SEE SIGNAL PLANS):

- L- AND -Y1-, HAYES DR. (SR 4232)
- L- AND -Y4-, HIGH POINT RD. (SR 1003)
- L- AND -Y8-, TEMPLE SCHOOL RD. (SR 2685)
- L- AND -Y10-, DELL BLVD. (SR 2798)
- L- AND -Y13-, GLENN HIGH RD. (SR 2679)
- L- AND -Y17-, SOLOMON DR. (SR 2880)
- L- AND -Y19-, KENOSHA DR. (SR 1111)
- L- AND -Y23-, SEDGE GARDEN RD. (SR 2632)

COMPLETE CONSTRUCTION AT THE FOLLOWING LOCATIONS:

- NB -L- STA. 195+00± TO STA. 205+00± (INCL. MEDIAN)
- NB -L- STA. 207+00± TO STA. 225+10± (INCL. MEDIAN)

STEP 4a

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, OR ROADWAY STANDARD DRAWING NO. 1101.04, INSTALL AND COVER ALL ROAD CLOSURE AND DETOUR SIGNING AS SHOWN ON SHEETS TMP-98 THRU TMP-103 (EXCEPT TMP-102A). INSTALL FINAL TRAFFIC SIGNALS AT -Y15-, I-40 INTERCHANGE RAMP TERMINALS (SEE SIGNAL PLANS). COVER SIGNAL HEADS.

COMPLETE THE WORK REQUIRED OF PHASE III, STEP 4b AND STEP 4c IN 17 CALENDAR DAYS (SEE SPECIAL PROVISIONS AND LIQUIDATED DAMAGES)

STEP 4b

UNCOVER DETOUR SIGNS AS SHOWN ON SHEETS TMP-100 AND TMP-101 INSTALLED IN PHASE III, STEP 4a AND USING TYPE III BARRICADES, CLOSE RAMP "A" AND RAMP "B" AT THE I-40 INTERCHANGE. CONSTRUCT UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE IN THE FOLLOWING AREAS (SEE SHEETS TMP-96 & TMP-97):

- LNB- STA 154+00± TO STA 154+64±
- Y15SPB- STA 10+00± TO STA 12+00±
- Y15RPB- STA 14+50± TO STA 20+70±
- L- STA 162+00± TO STA 162+73± (INCL. -L_NB- WITHIN THESE LIMITS)
- Y15SPA- STA 10+00± TO STA 11+62±
- Y15RPA- STA 12+10± TO STA 19+00±

COMPLETE THE WORK REQUIRED OF PHASE III, STEP 4c IN 48 CONSECUTIVE HOURS BEGINNING IMMEDIATELY UPON COMPLETION OF STEP 4b. (SEE SPECIAL PROVISIONS AND LIQUIDATED DAMAGES)

STEP 4c

MAINTAIN RAMPS "A" AND "B" CLOSED. UNCOVER DETOUR SIGNS AS SHOWN ON SHEETS TMP-98 THRU TMP-103 INSTALLED IN PHASE III, STEP 4a, AND USING TYPE III BARRICADES CLOSE -L-, UNION CROSS RD AND RAMPS "C" AND "D" AT THE I-40 INTERCHANGE.

AWAY FROM TRAFFIC, STRIPE/DELINEATE INTERCHANGE FOR PROPOSED DDI CONFIGURATION.

BEGIN COMPLETION OF RAMP ISLANDS AT RAMP "C" AND "D" TERMINI, INCLUDING TEMPORARY PAVEMENT REMOVAL.

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1, 2 & 3 OF 9, PLACE TRAFFIC IN PROPOSED SB & NB OUTSIDE LANE OF -L-, UNION CROSS RD. (SR 2643) AT THE FOLLOWING LOCATION:

- L- STA. 46+00± TO STA. 225+10±

PLACE TRAFFIC IN FINAL PATTERN ON -Y23-. OPEN -L-, UNION CROSS RD., AND ALL RAMPS AT THE I-40 INTERCHANGE. ACTIVATE PROPOSED SIGNALS AT I-40 INTERCHANGE.

PHASE IV

STEP 1

COMPLETE ANY REMAINING RAISED MEDIAN ISLAND WORK ON PROPOSED -L-. COMPLETE INSTALLATION OF PROPOSED SIGNALS AT THE FOLLOWING INTERSECTIONS:

- L- AND -Y1-, HAYES DR. (SR 4232)
- L- AND -Y4-, HIGH POINT RD. (SR 1003)
- L- AND -Y8-, TEMPLE SCHOOL RD. (SR 2685)
- L- AND -Y10-, DELL BLVD. (SR 2798)
- L- AND -Y13-, GLENN HIGH RD. (SR 2679)
- L- AND -Y17-, SOLOMON DR. (SR 2880)
- L- AND -Y19-, KENOSHA DR. (SR 1111)
- L- AND -Y23-, SEDGE GARDEN RD. (SR 2632)

STEP 2

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1, 2, AND 3 OF 9, COMPLETE THE FOLLOWING:

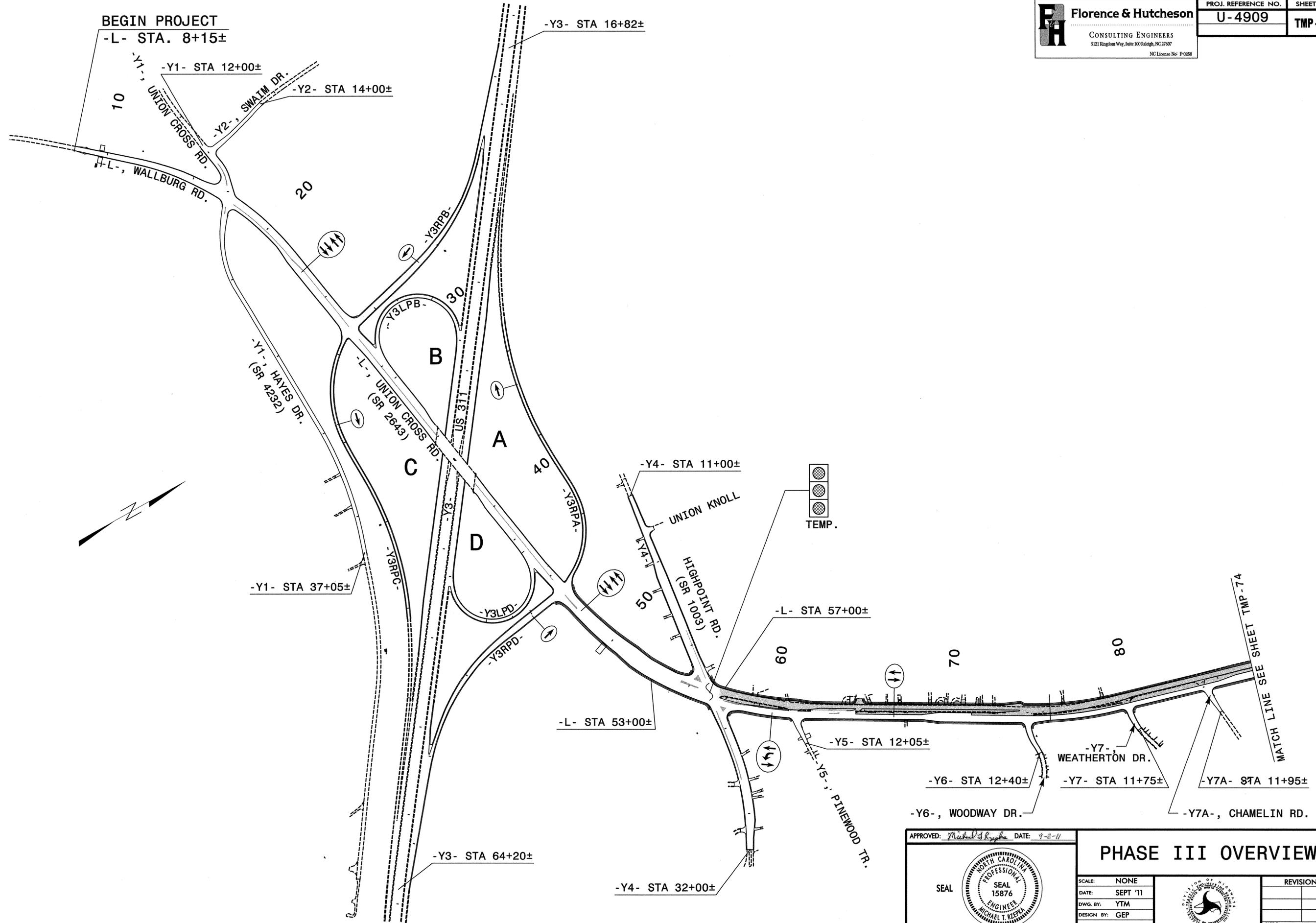
- PLACE FINAL LAYER OF SURFACE COURSE ON -L- AND ALL -Y- LINES.
- CONSTRUCT PROPOSED MONOLITHIC ISLANDS (SEE ROADWAY PLANS).
- PLACE FINAL PAVEMENT MARKINGS AND MARKERS.

STEP 3

REMOVE ALL LANE CLOSURES AND TRAFFIC CONTROL DEVICES, ACTIVATE PROPOSED TRAFFIC SIGNALS INSTALLED IN PHASE IV, STEP 1 AND OPEN ALL LANES UP TO TRAFFIC.

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APPROVED: <i>Michael J. Ruppel</i> DATE: 9-2-11		PHASES III & IV PHASING	
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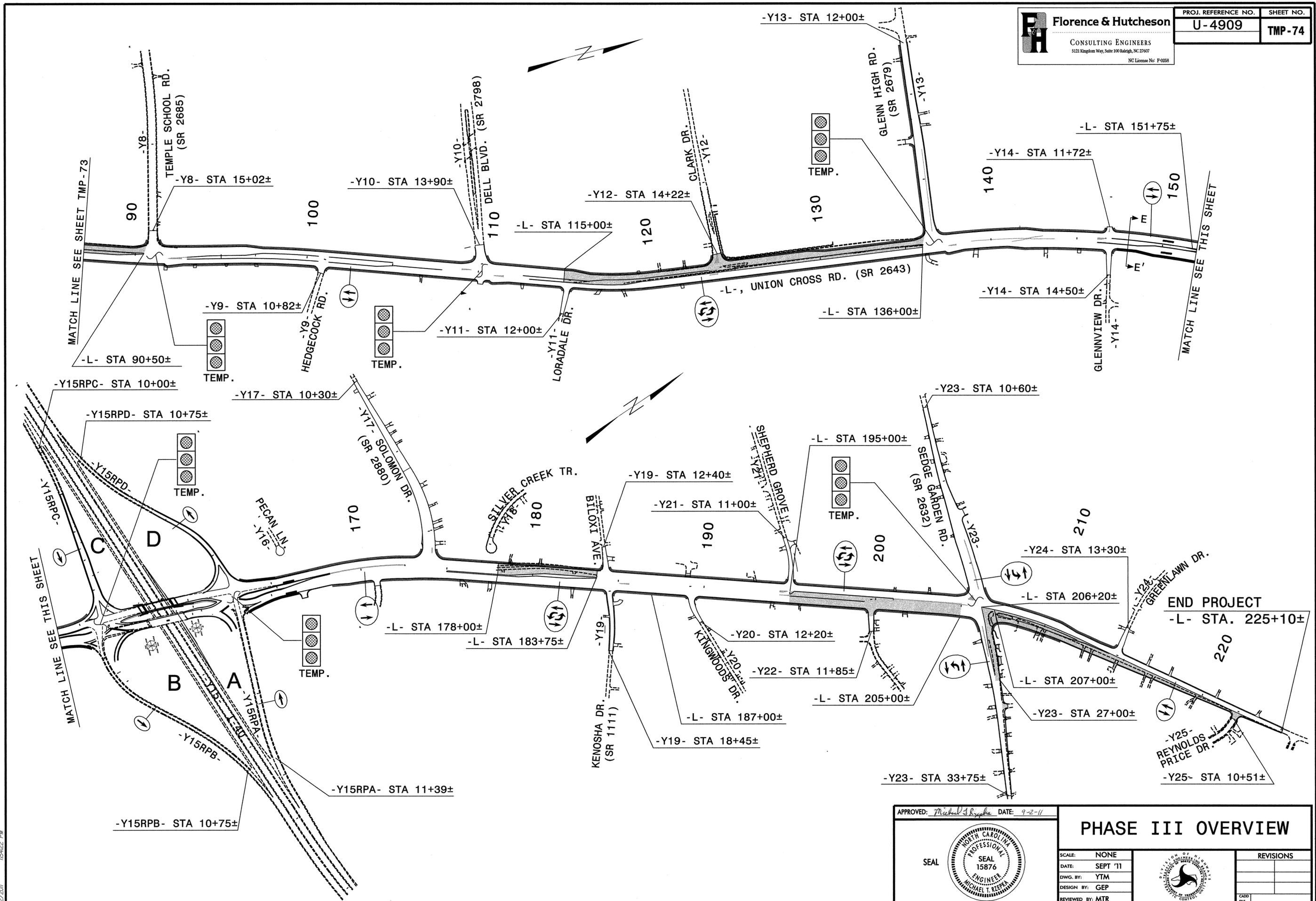
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APPROVED: *Michael T. Rzepka* DATE: 9-2-11

SEAL

PHASE III OVERVIEW

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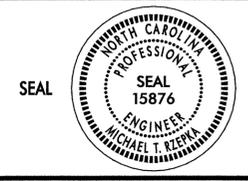


MATCH LINE SEE THIS SHEET

MATCH LINE SEE THIS SHEET

END PROJECT
 -L- STA. 225+10±

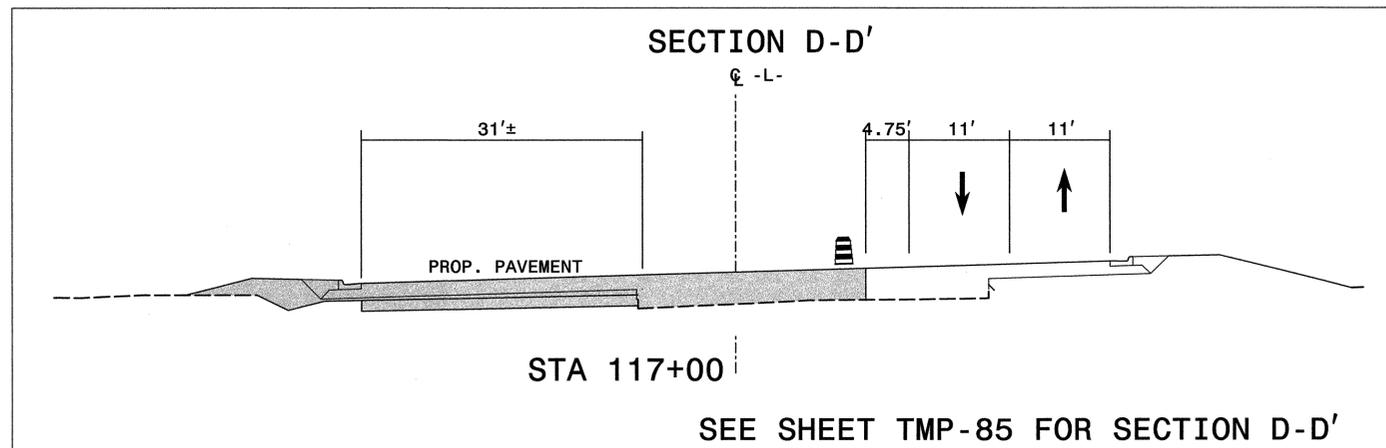
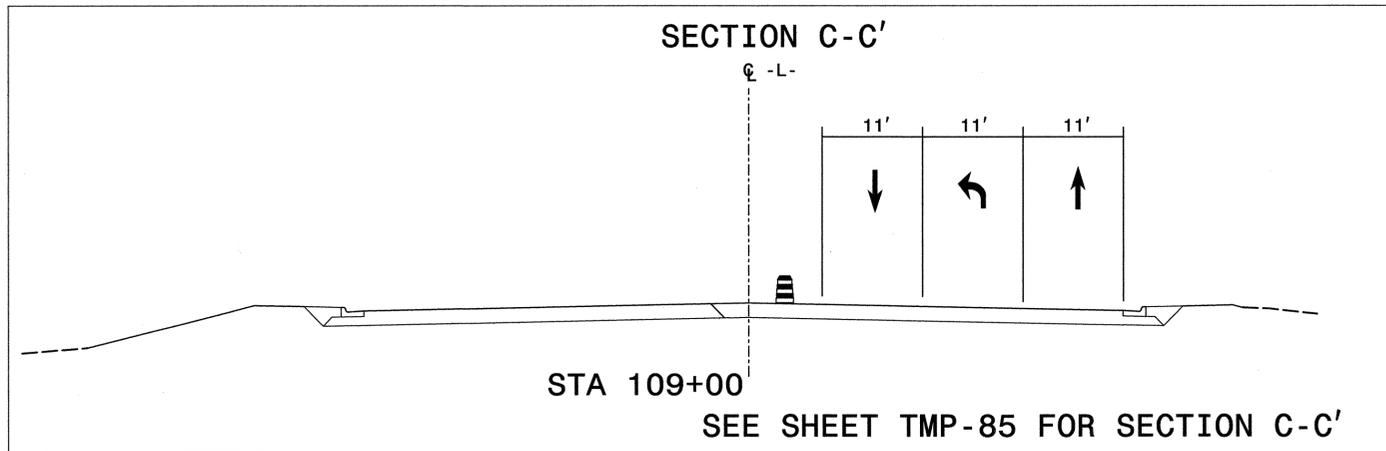
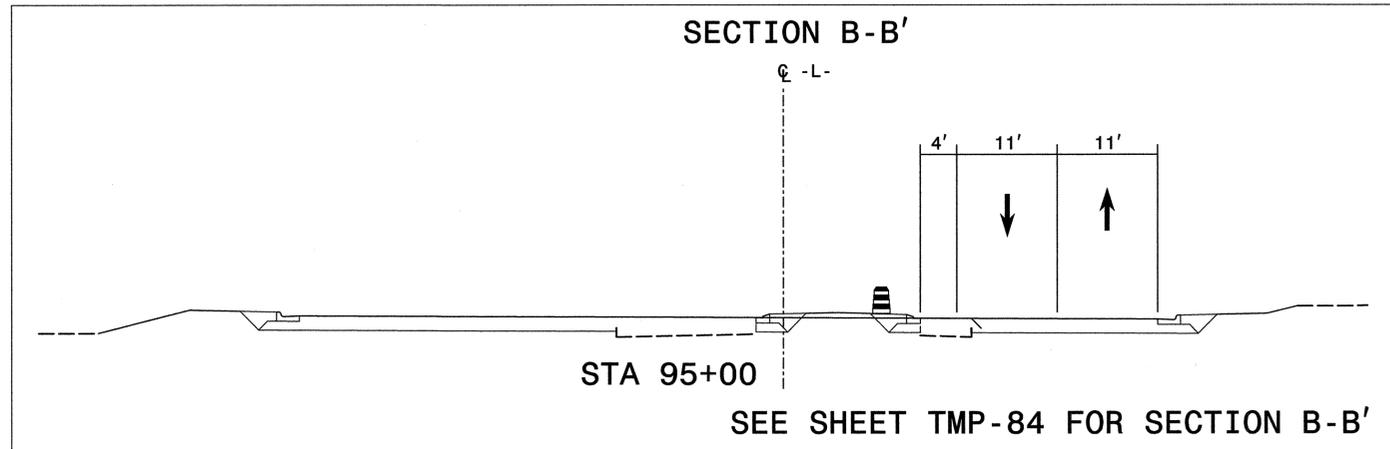
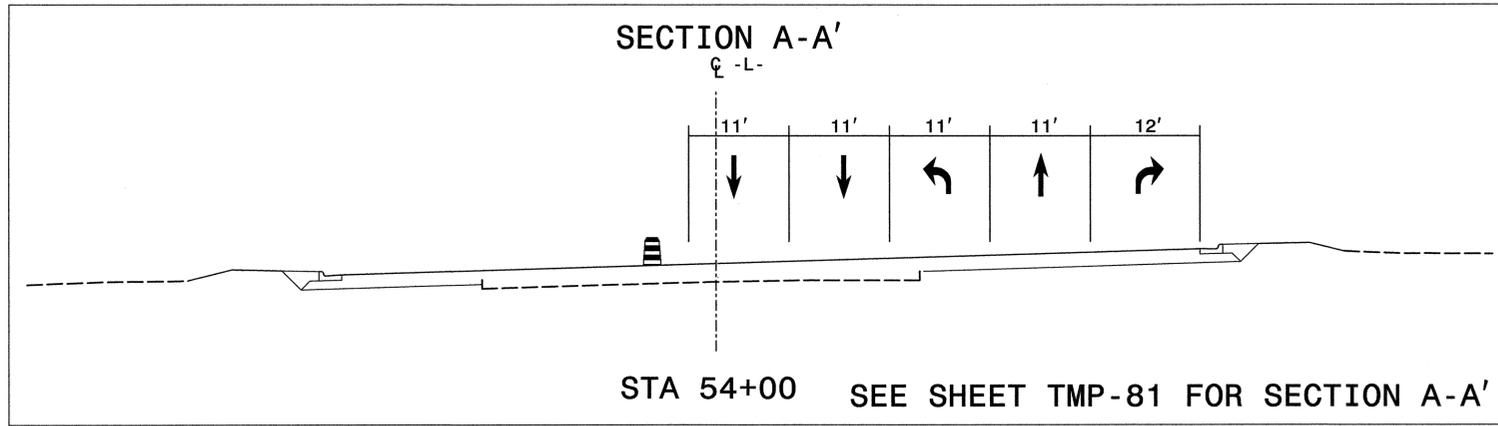
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PHASE III OVERVIEW

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APPROVED: *Michael S. Ryznar* DATE: 9-2-11



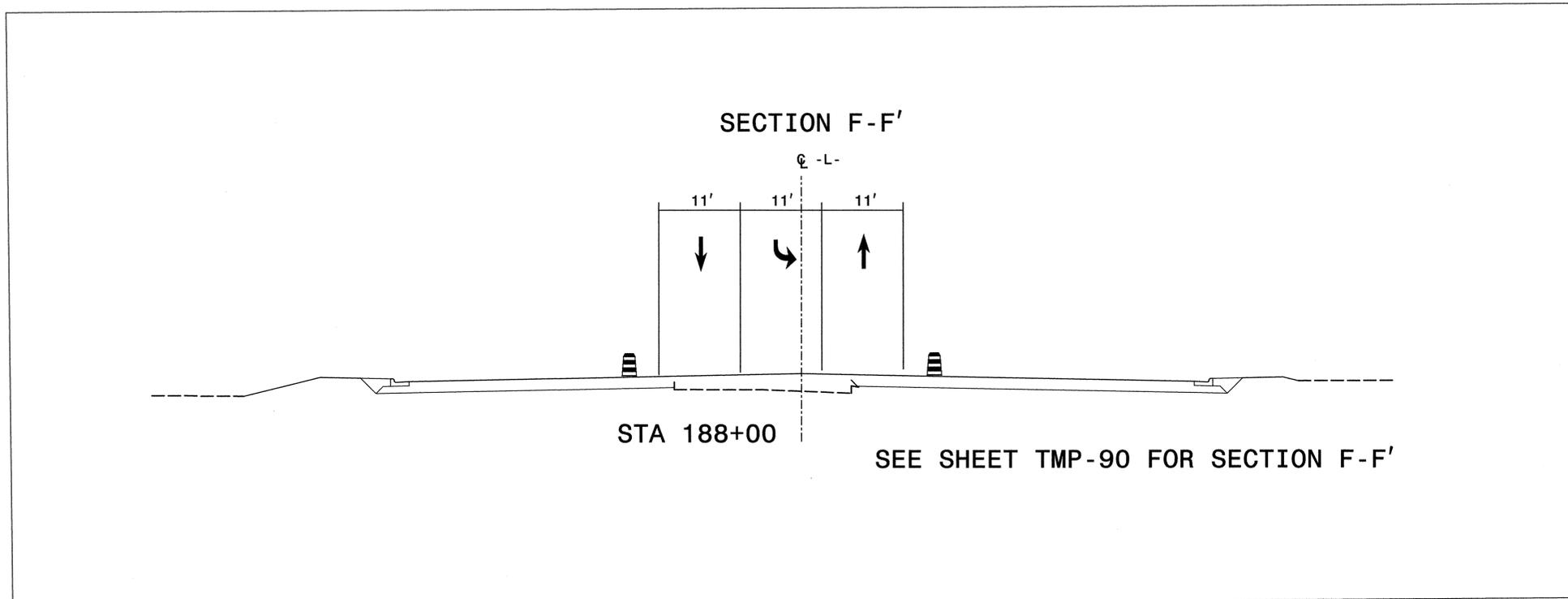
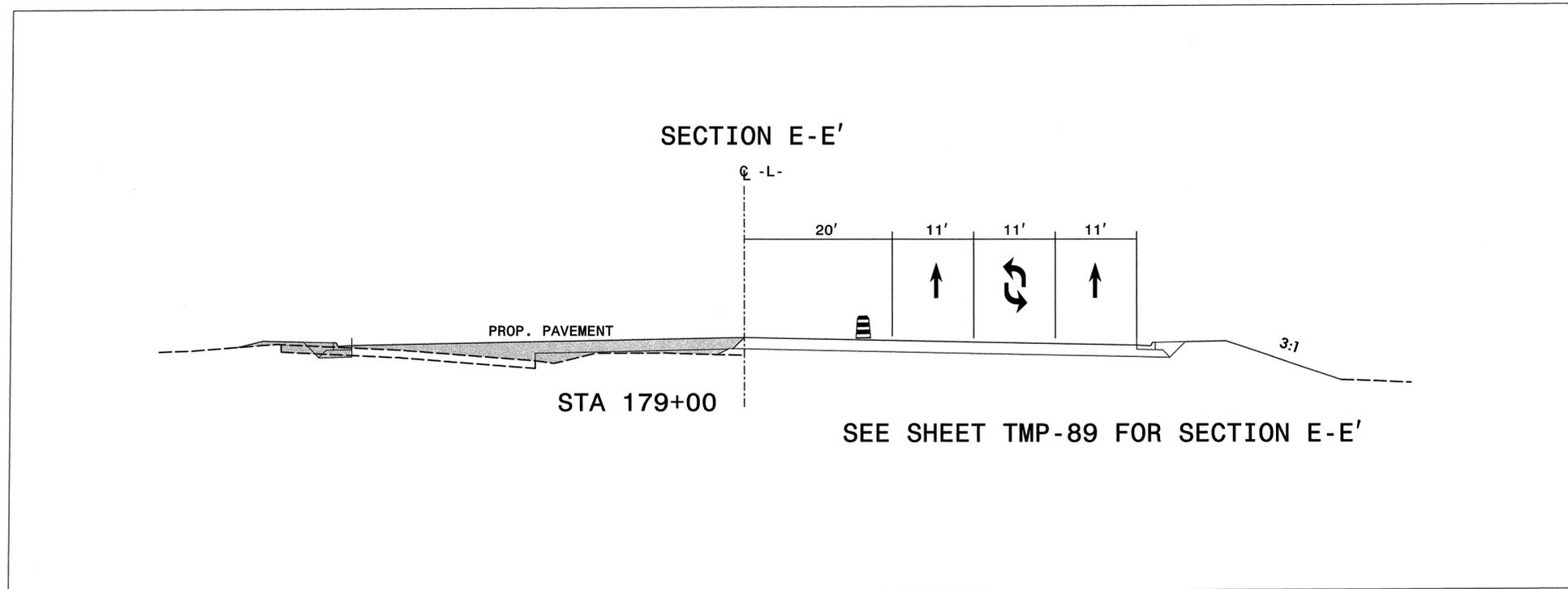
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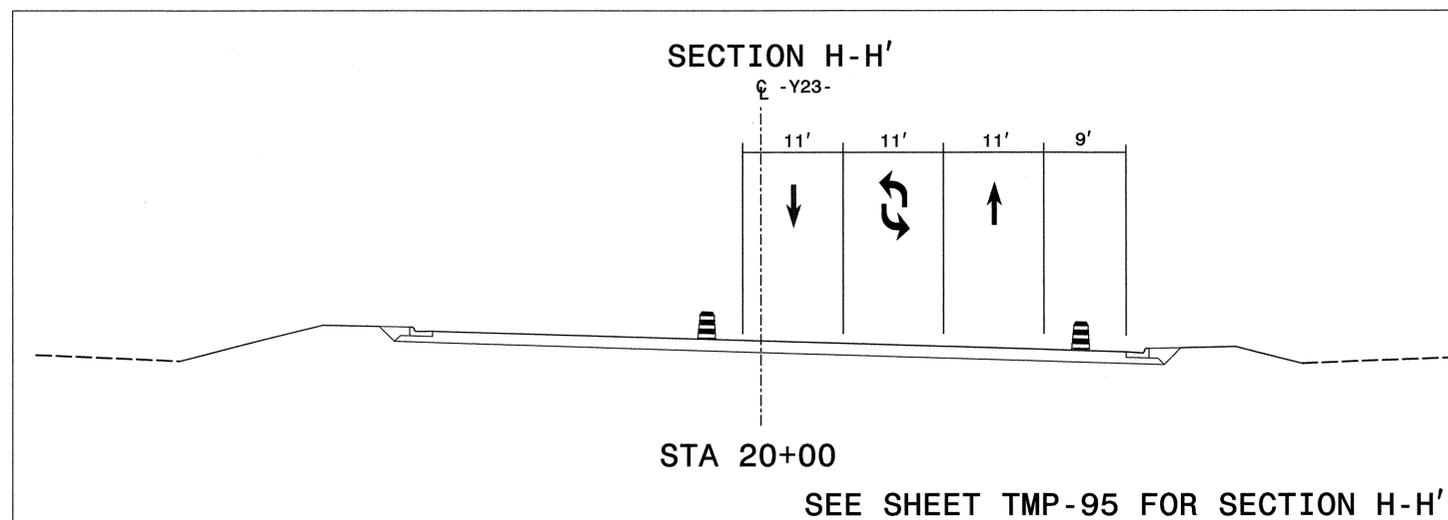
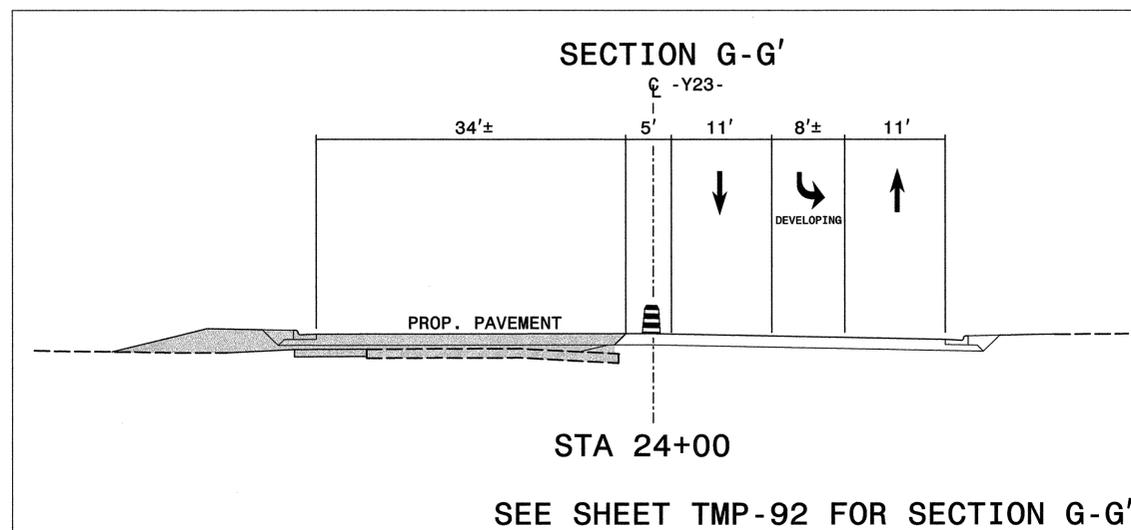
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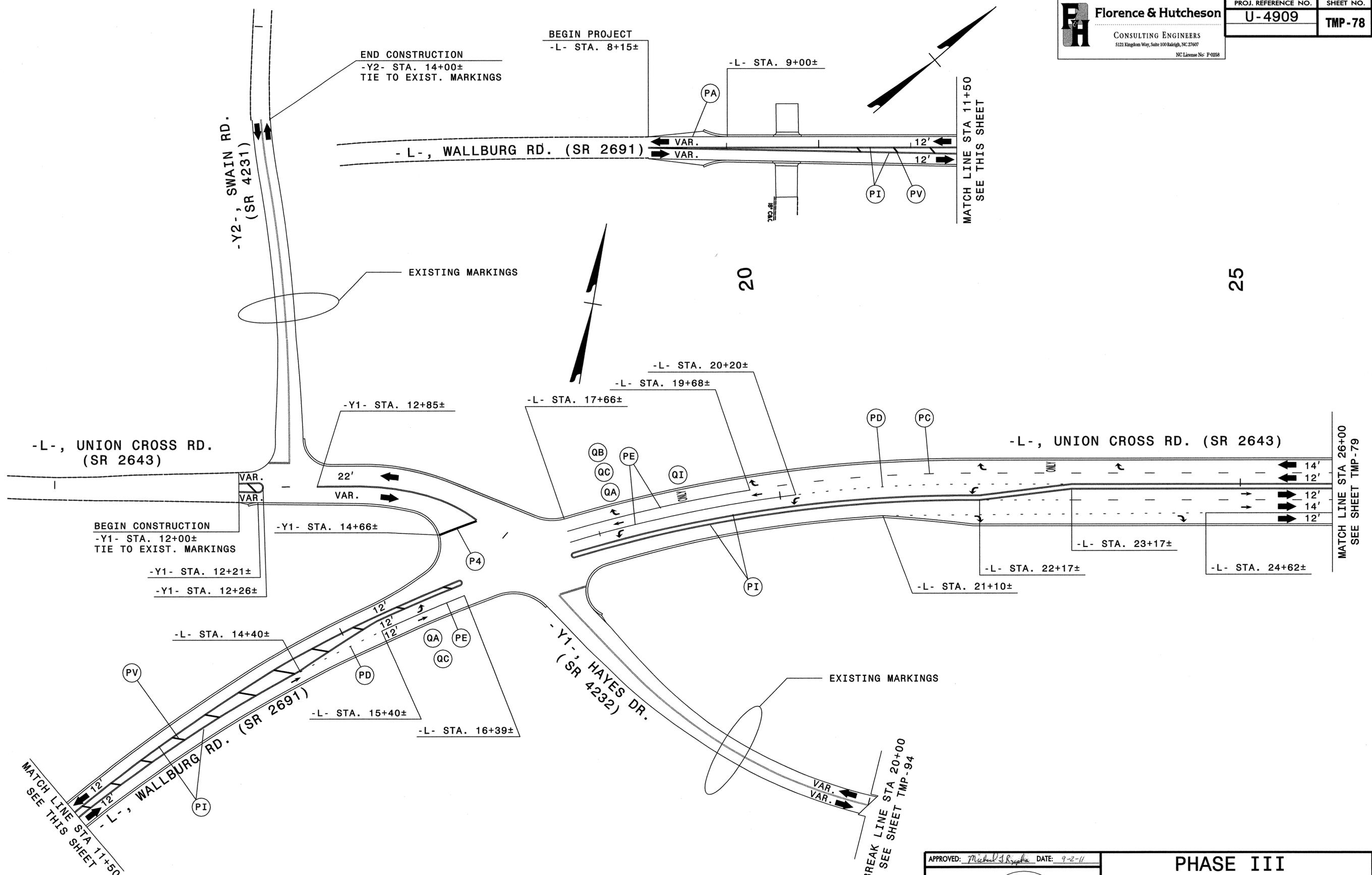


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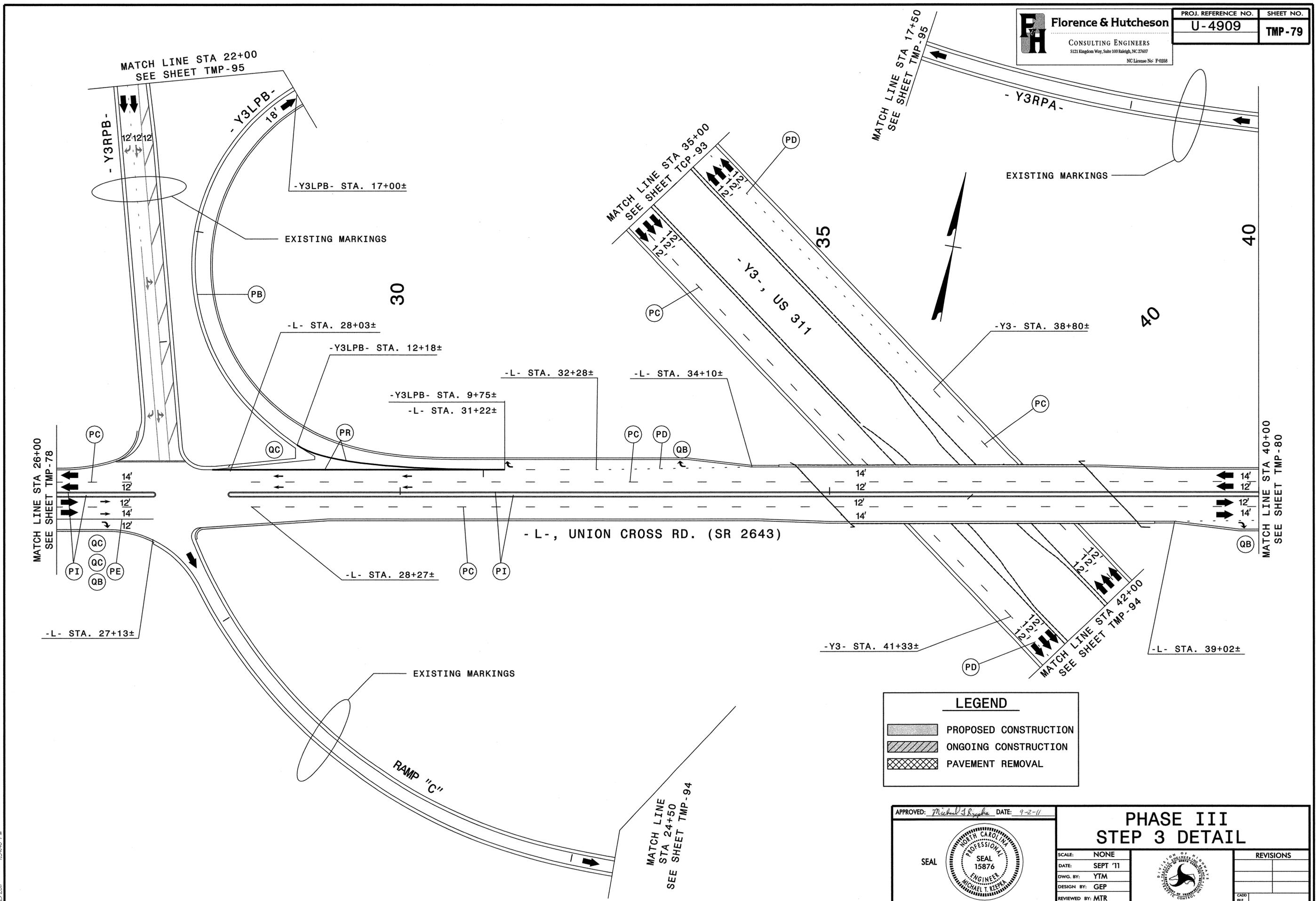
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SEAL

STATE OF NORTH CAROLINA
 PROFESSIONAL ENGINEER
 SEAL
 15876
 MICHAEL T. KZEMA

PHASE III STEP 3 DETAIL	
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LEGEND

- PROPOSED CONSTRUCTION
- ONGOING CONSTRUCTION
- PAVEMENT REMOVAL

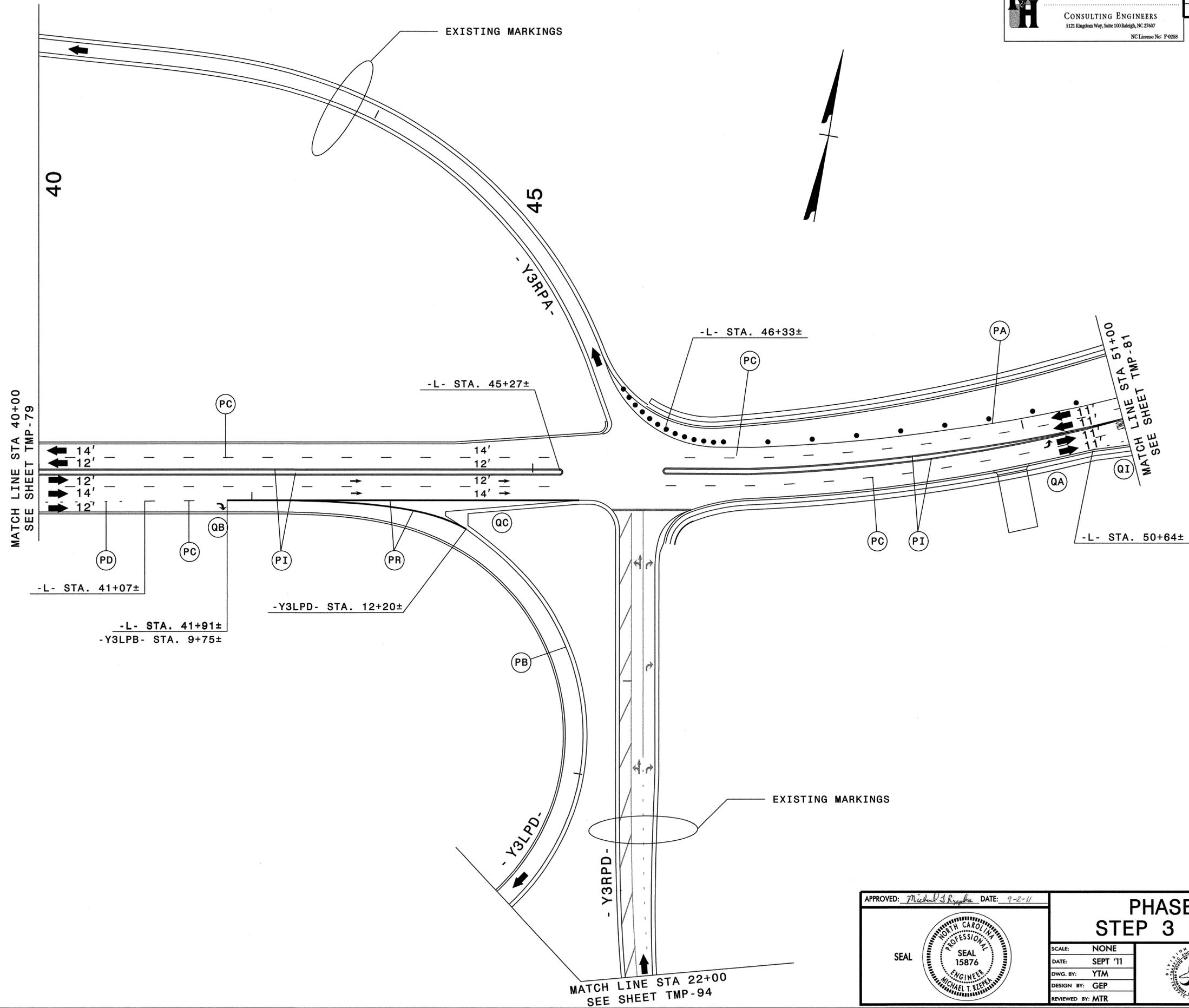
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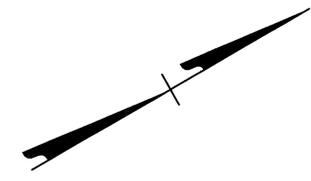
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APPROVED: *Michael T. Rzepka* DATE: 9-2-11

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**PHASE III
STEP 3 DETAIL**

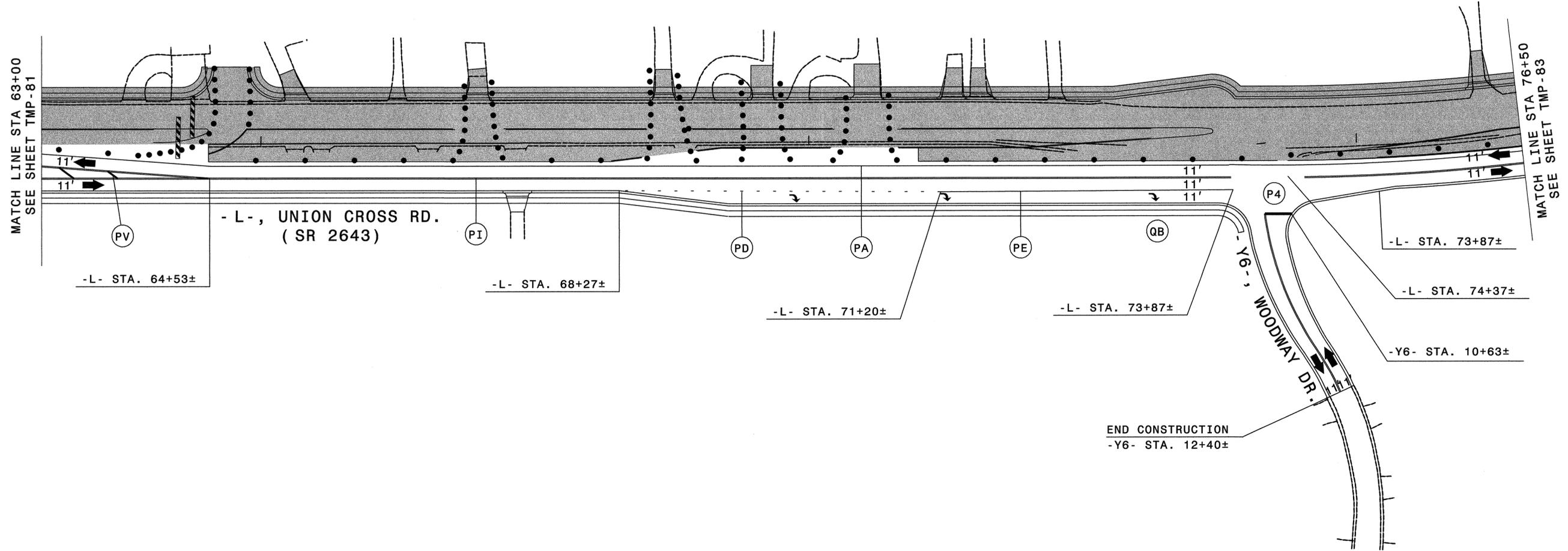
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65

70

75



MATCH LINE STA 63+00
SEE SHEET TMP-81

MATCH LINE STA 76+50
SEE SHEET TMP-83

- L -, UNION CROSS RD.
(SR 2643)

END CONSTRUCTION
-Y6- STA. 12+40±

LEGEND

PROPOSED CONSTRUCTION

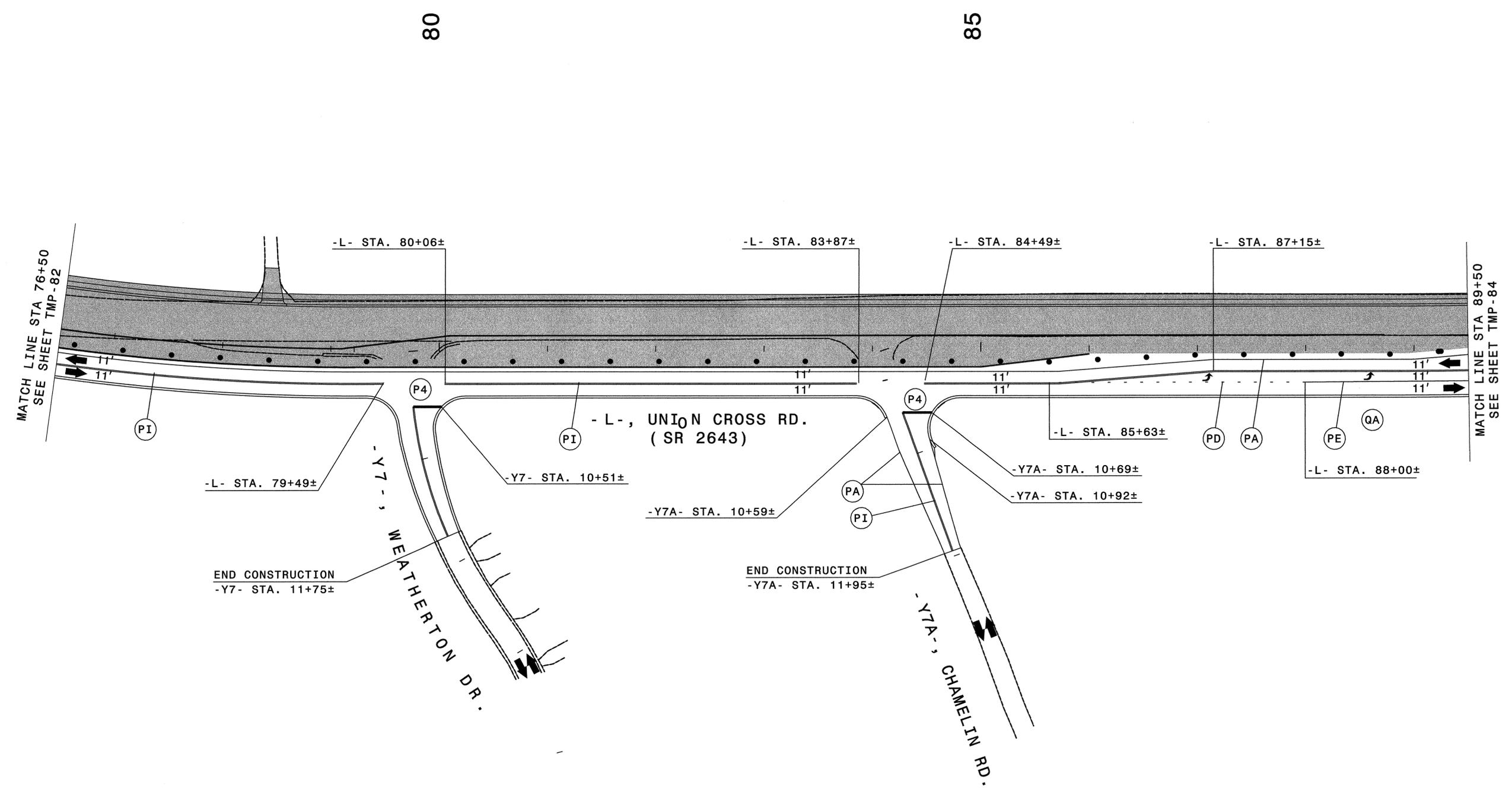
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LEGEND	
	PROPOSED CONSTRUCTION

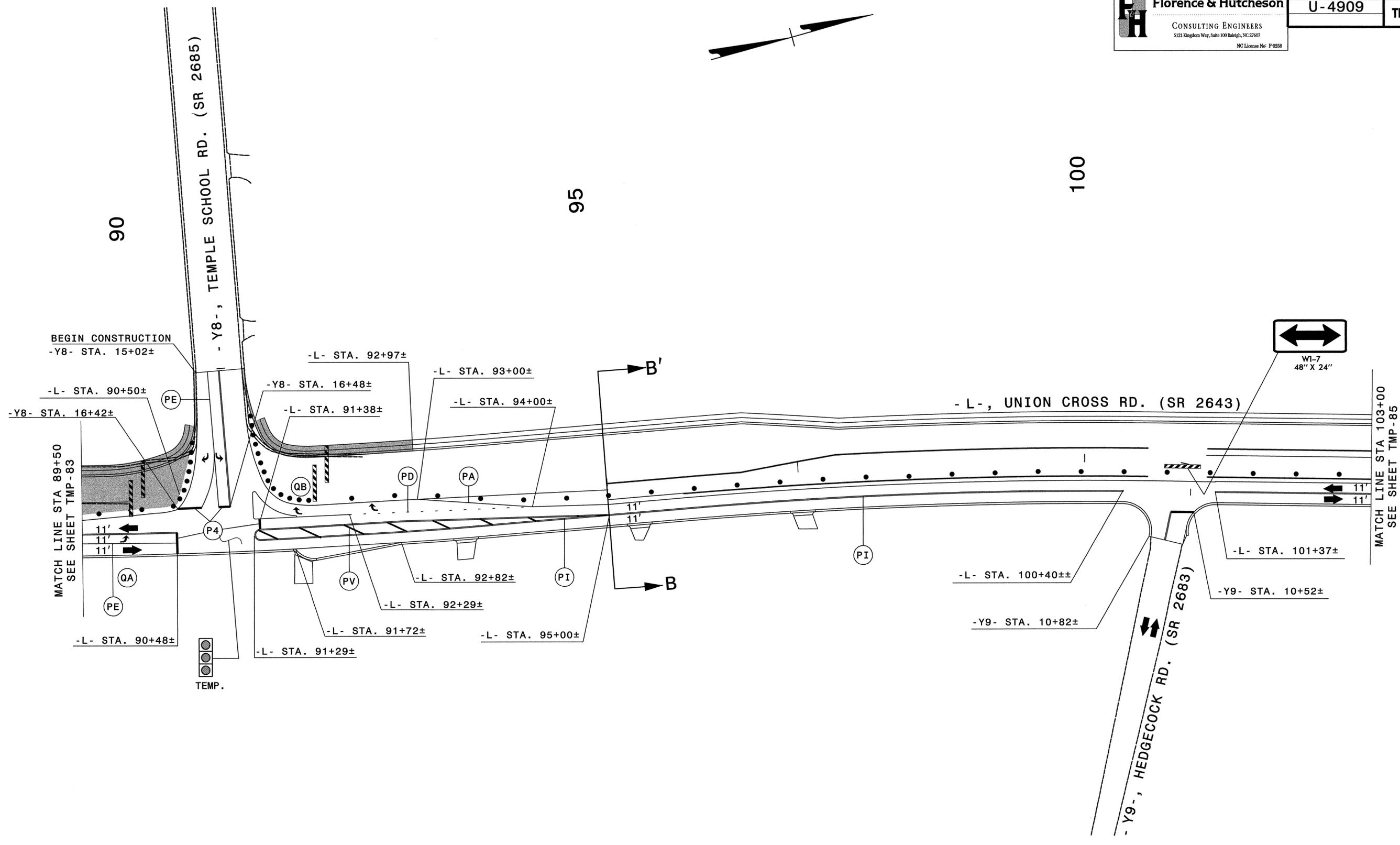
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**PHASE III
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BEGIN CONSTRUCTION
 -Y8- STA. 15+02±

-L- STA. 90+50±

-Y8- STA. 16+42±

MATCH LINE STA 89+50
 SEE SHEET TMP-83

QA

PE

-L- STA. 90+48±

TEMP.

-L- STA. 92+97±

-Y8- STA. 16+48±

-L- STA. 91+38±

-L- STA. 91+29±

-L- STA. 93+00±

-L- STA. 94+00±

-L- STA. 92+82±

-L- STA. 92+29±

-L- STA. 91+72±

-L- STA. 95+00±

B'

B

-L-, UNION CROSS RD. (SR 2643)

-L- STA. 100+40±±

-Y9- STA. 10+82±

-L- STA. 101+37±

-Y9- STA. 10+52±

W1-7
 48" X 24"

MATCH LINE STA 103+00
 SEE SHEET TMP-85

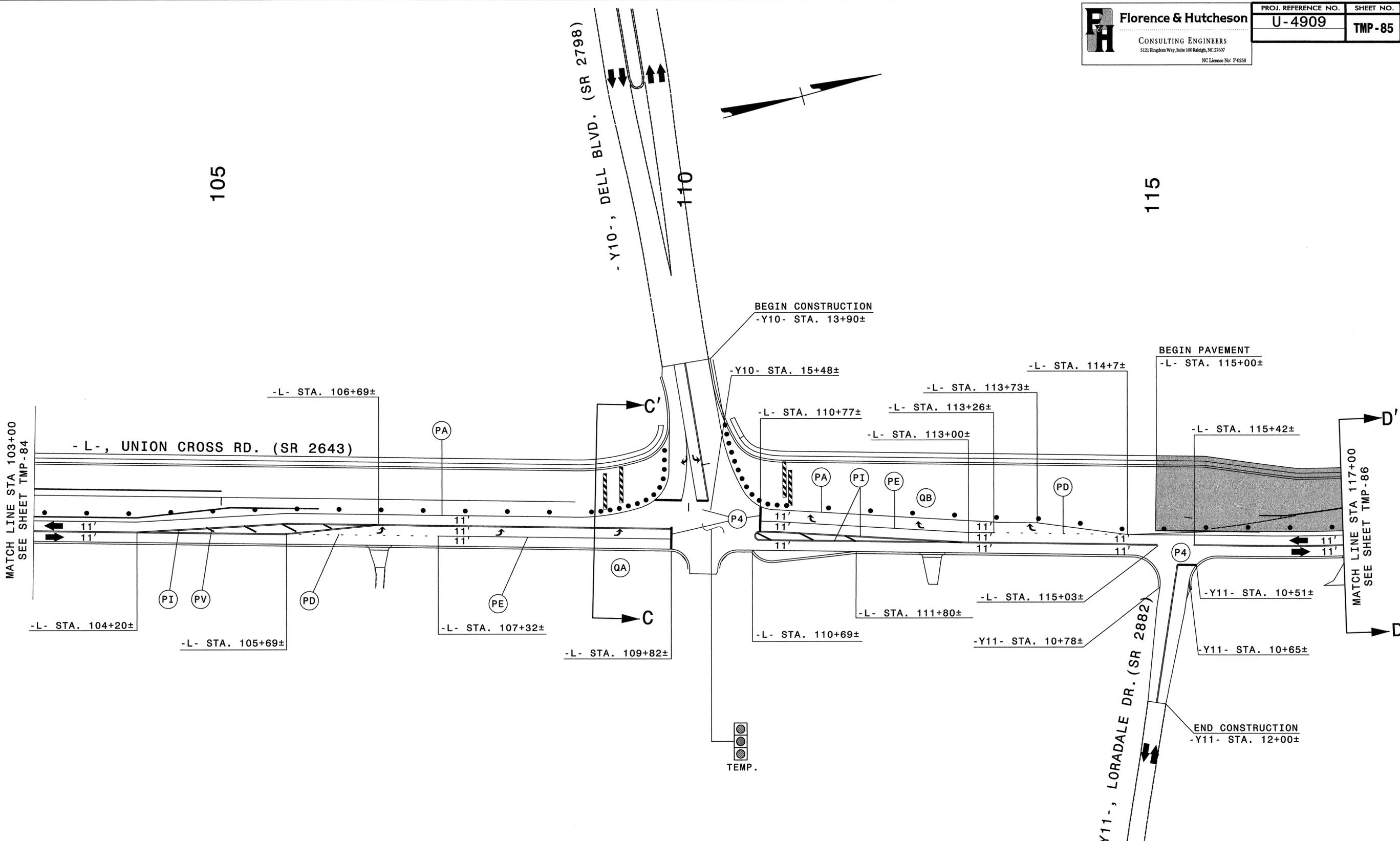
SEE SHEET TMP-75 FOR SECTION B-B'

LEGEND	
	PROPOSED CONSTRUCTION

APPROVED: *Michael T. Kerner* DATE: 9-2-11

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PHASE III STEP 3 DETAIL			REVISIONS
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MATCH LINE STA 103+00
SEE SHEET TMP-84

MATCH LINE STA 117+00
SEE SHEET TMP-86

SEE SHEET TMP-75 FOR SECTIONS C-C' & D-D'

LEGEND

PROPOSED CONSTRUCTION

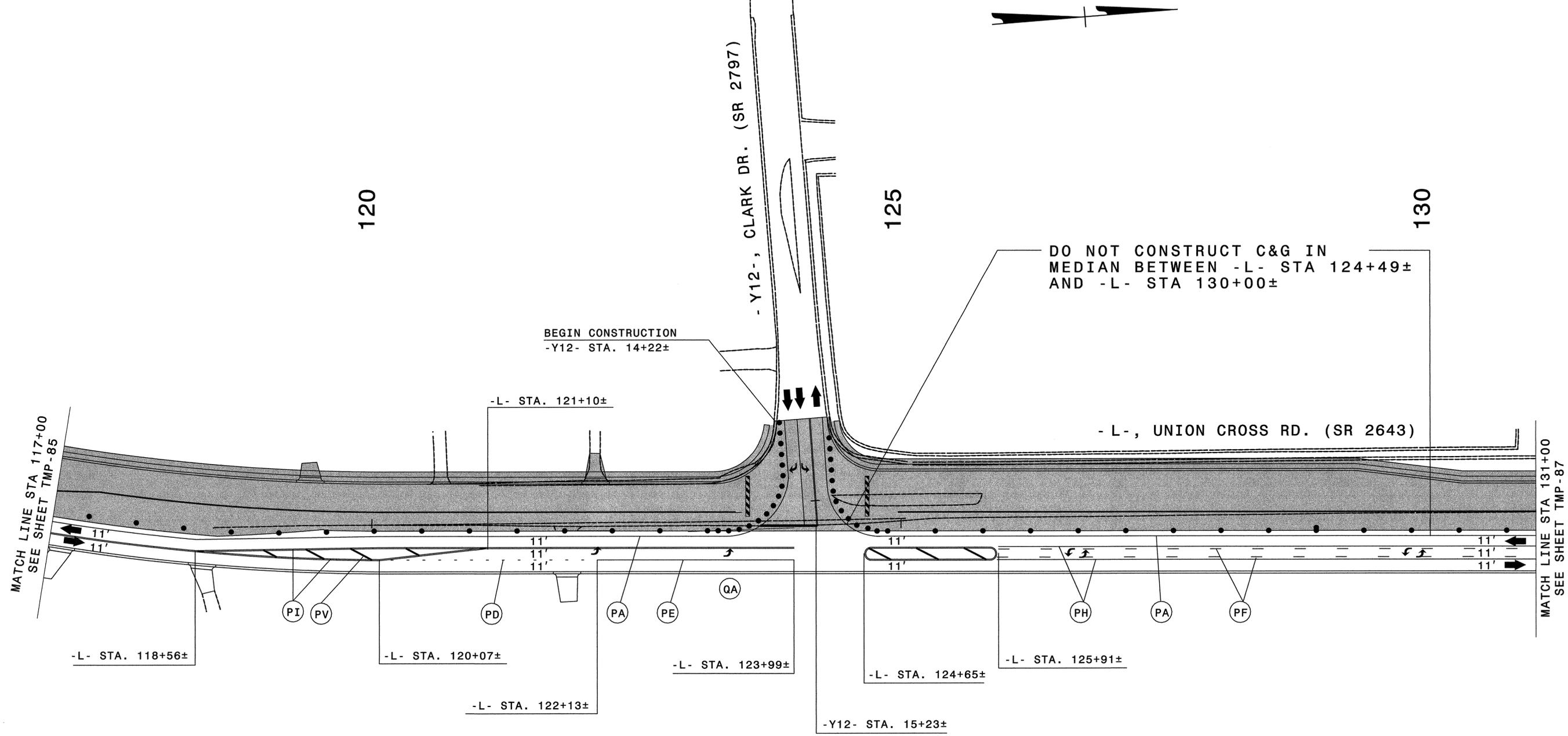
APPROVED: *Michael J. Rydman* DATE: 9-2-11

SEAL

**PHASE III
STEP 3 DETAIL**

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REVISIONS										
DATE: SEPT '11										
DWG. BY: YTM										
DESIGN BY: GEP										
REVIEWED BY: MTR	CADD FILE									

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9/28/2011 9:55:59 AM



MATCH LINE STA 117+00
SEE SHEET TMP-85

MATCH LINE STA 131+00
SEE SHEET TMP-87

LEGEND

PROPOSED CONSTRUCTION

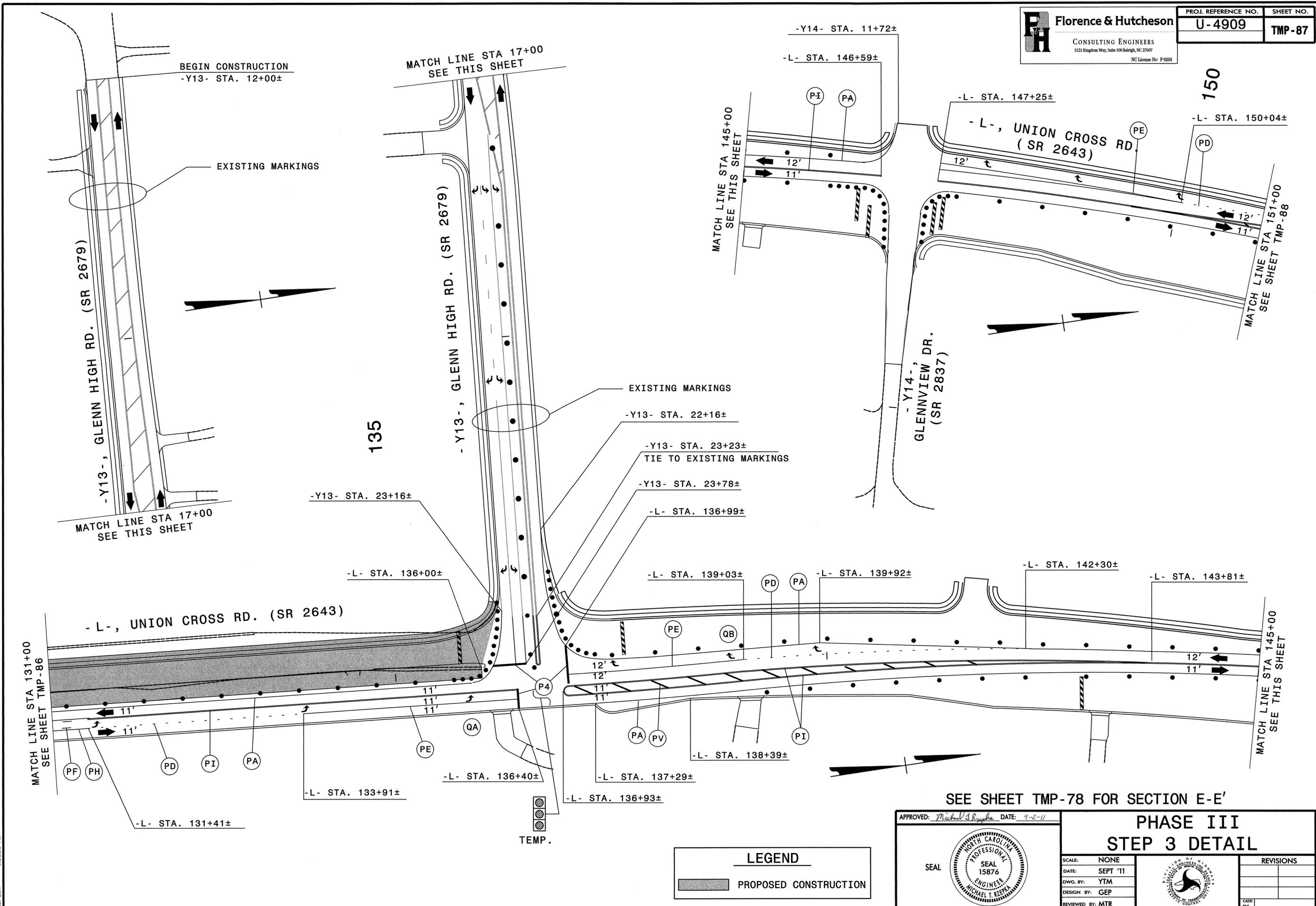
APPROVED: *Michael J. Ryznar* DATE: 9-2-11

SEAL

**PHASE III
STEP 3 DETAIL**

SCALE: NONE		REVISIONS
DATE: SEPT '11		
DWG. BY: YTM		
DESIGN BY: GEP		
REVIEWED BY: MTR		

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9/28/2011 9:56:03 AM



LEGEND

PROPOSED CONSTRUCTION

SEE SHEET TMP-78 FOR SECTION E-E'

PHASE III
STEP 3 DETAIL

APPROVED: *Michael T. Ryznar* DATE: 9-2-11

SCALE: NONE
 DATE: SEPT '11
 DWG. BY: YTM
 DESIGN BY: GEP
 REVIEWED BY: MTR

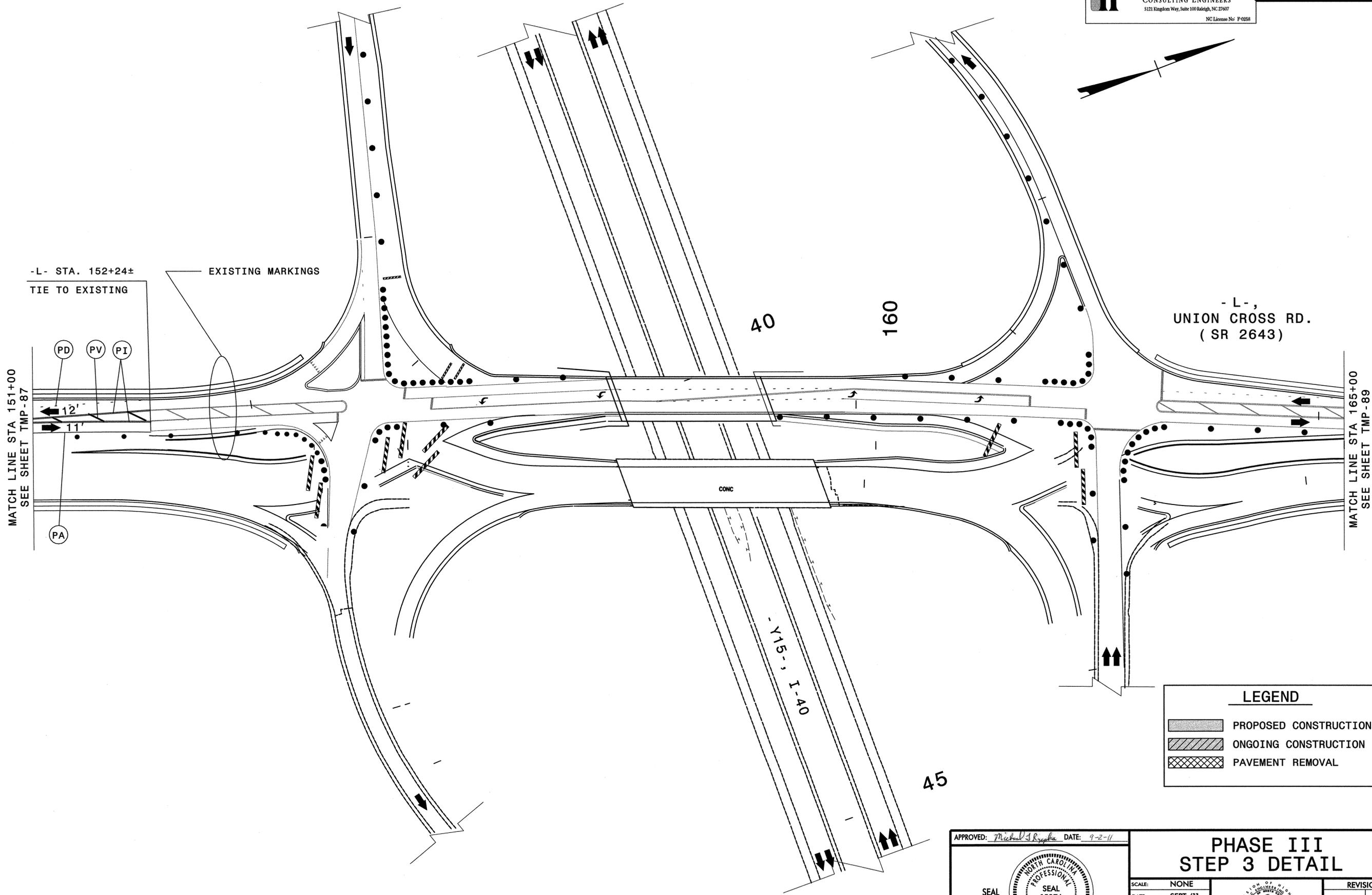
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REVISIONS

NO.	DESCRIPTION

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LEGEND	
	PROPOSED CONSTRUCTION
	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

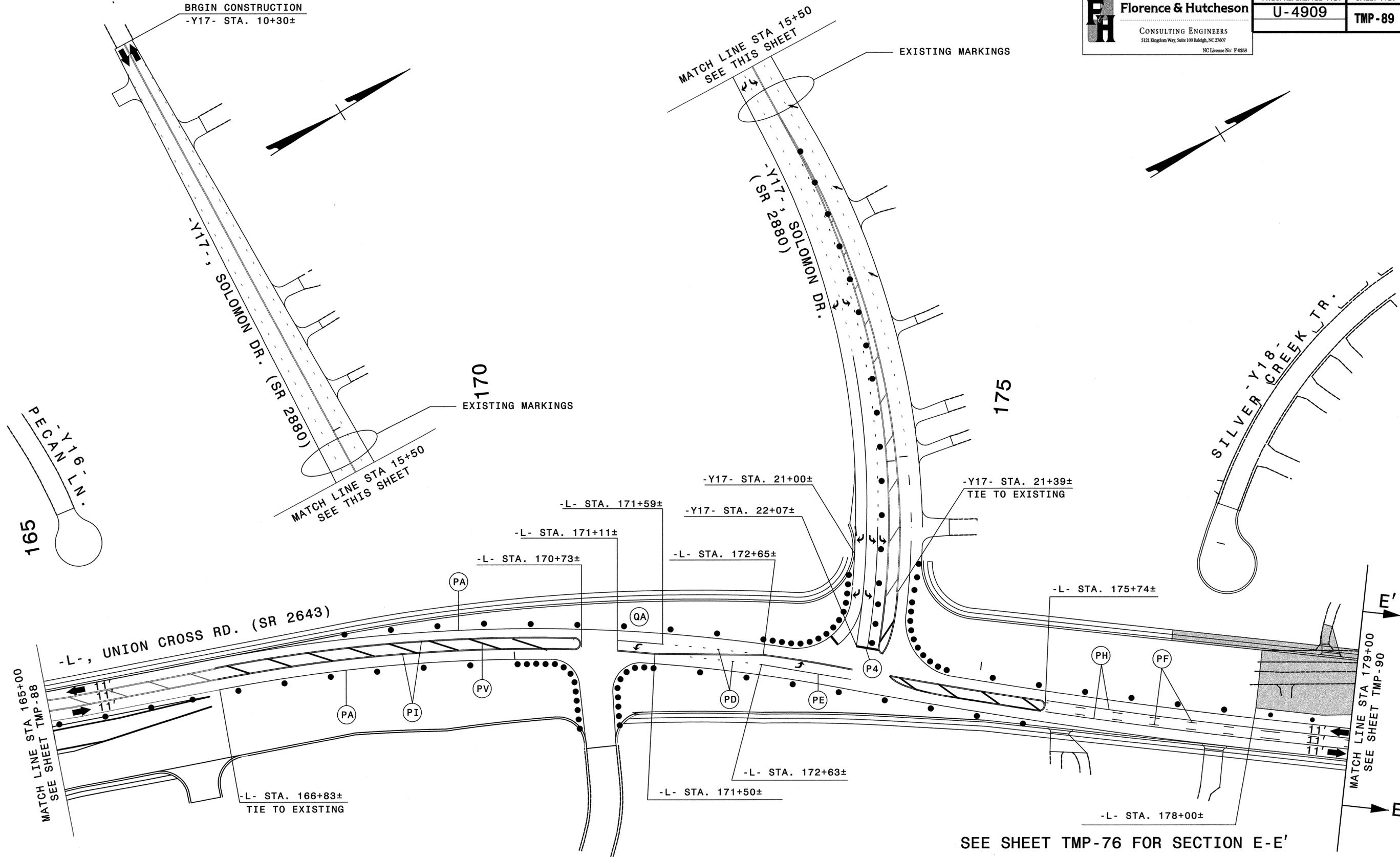
APPROVED: *Michael T. Rieker* DATE: 9-2-11

SEAL

**PHASE III
STEP 3 DETAIL**

SCALE: NONE		REVISIONS
DATE: SEPT '11		
DWG. BY: YTM		
DESIGN BY: GEP		
REVIEWED BY: MTR		

F:\002_4909\4909_uc_top_p11_sl_def.dwg
 9/2/2011 4:55:15 PM



165
 PECAN LN.

170
 EXISTING MARKINGS

175

SILVER CREEK TR.

SEE SHEET TMP-76 FOR SECTION E-E'

LEGEND

PROPOSED CONSTRUCTION

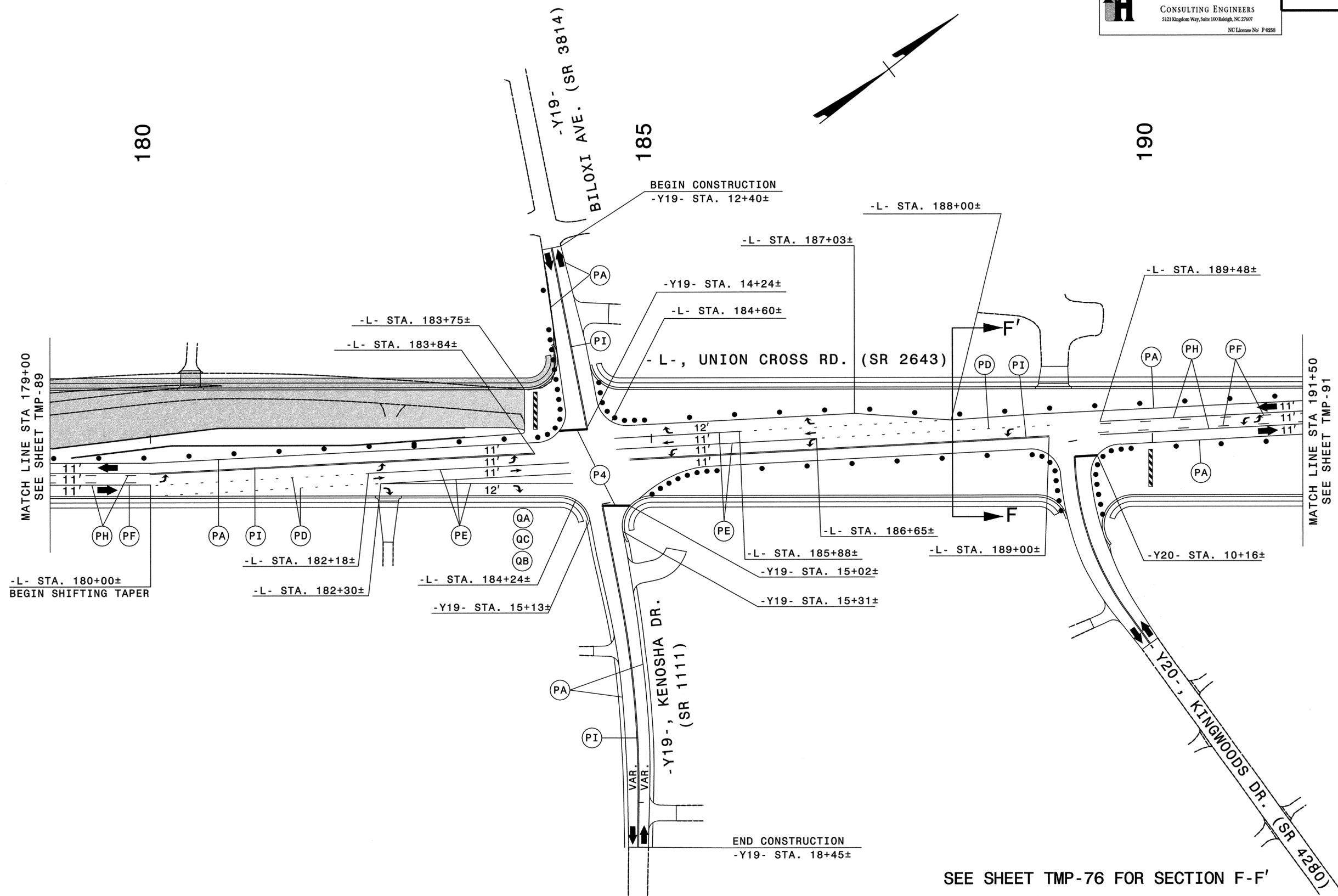
APPROVED: *Michael T. Rzeznick* DATE: 9-2-11

SEAL

**PHASE III
 STEP 3 DETAIL**

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MATCH LINE STA 179+00
 SEE SHEET TMP-89

MATCH LINE STA 191+50
 SEE SHEET TMP-91

SEE SHEET TMP-76 FOR SECTION F-F'

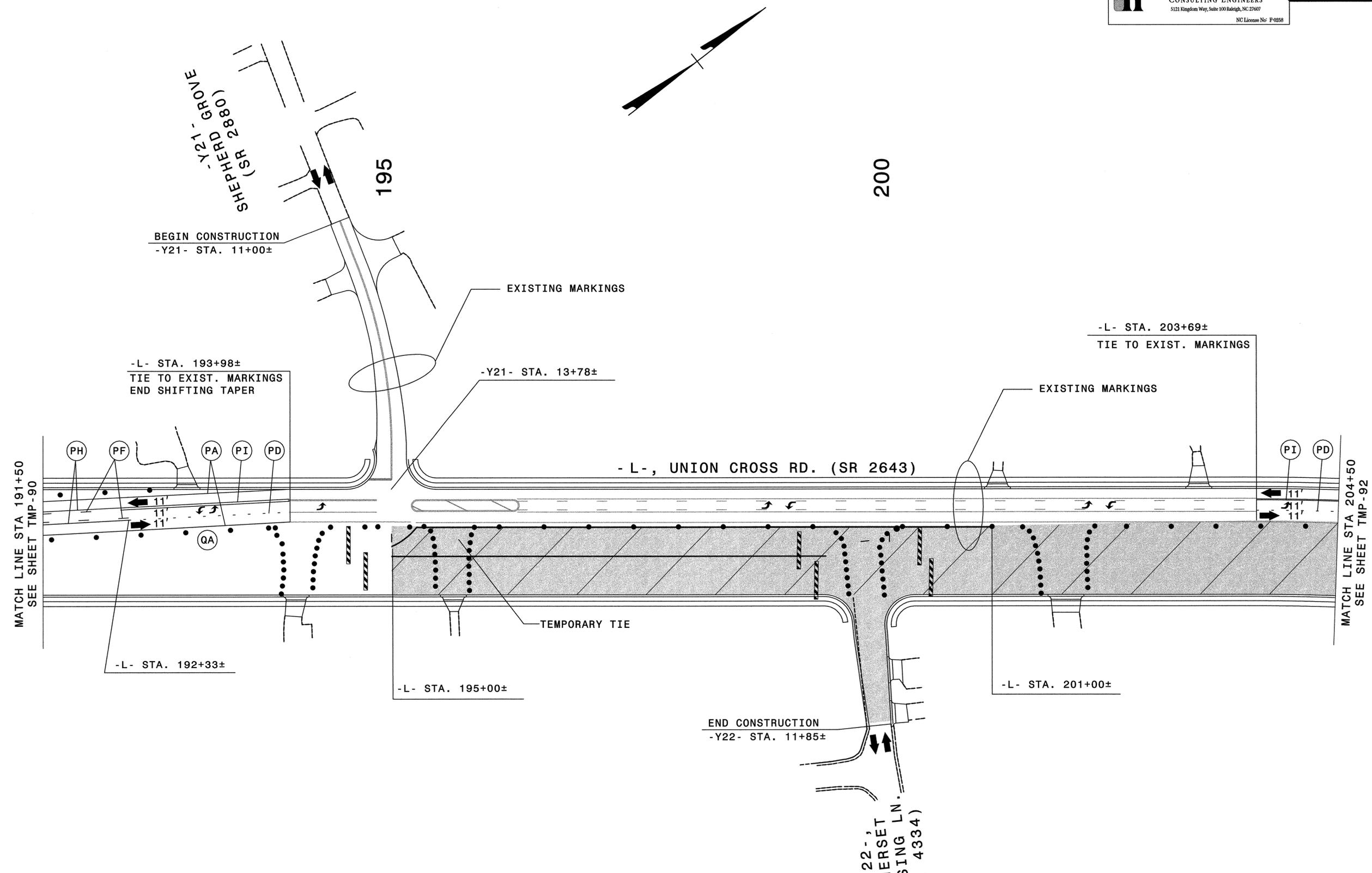
APPROVED: *Michael S. Rzepka* DATE: 9-2-11

SEAL

**PHASE III
 STEP 3 DETAIL**

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DATE: SEPT '11		
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DESIGN BY: GEP		
REVIEWED BY: MTR		

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LEGEND	
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	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

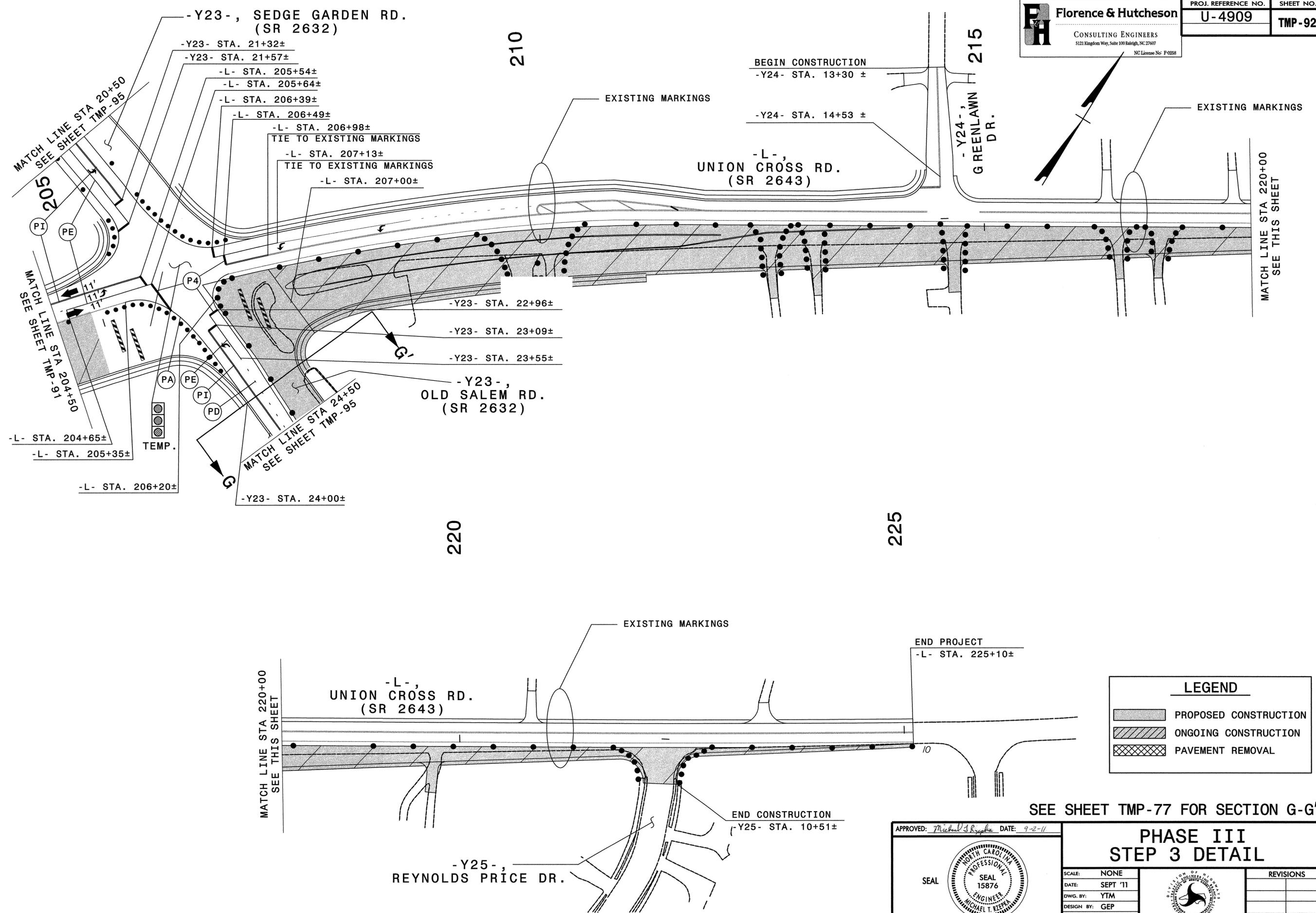
APPROVED: *Michael T. Rzepka* DATE: 9-2-11

SEAL

**PHASE III
STEP 3 DETAIL**

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DATE: SEPT '11		
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REVIEWED BY: MTR		CADD FILE

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-Y23-, SEDGE GARDEN RD.
(SR 2632)

-Y23- STA. 21+32±
 -Y23- STA. 21+57±

-L- STA. 205+54±
 -L- STA. 205+64±
 -L- STA. 206+39±
 -L- STA. 206+49±
 -L- STA. 206+98±
 TIE TO EXISTING MARKINGS
 -L- STA. 207+13±
 TIE TO EXISTING MARKINGS
 -L- STA. 207+00±

MATCH LINE STA 20+50
SEE SHEET TMP-95

MATCH LINE STA 204+50
SEE SHEET TMP-95

MATCH LINE STA 24+50
SEE SHEET TMP-95

-L- STA. 204+65±
 -L- STA. 205+35±
 TEMP.

-L- STA. 206+20±

-Y23- STA. 22+96±
 -Y23- STA. 23+09±
 -Y23- STA. 23+55±

-Y23-, OLD SALEM RD.
(SR 2632)

-Y23- STA. 24+00±

BEGIN CONSTRUCTION
 -Y24- STA. 13+30 ±

-Y24- STA. 14+53 ±

-L-, UNION CROSS RD.
(SR 2643)

-Y24-, GREENLAWN DR.

MATCH LINE STA 220+00
SEE THIS SHEET

220

225

MATCH LINE STA 220+00
SEE THIS SHEET

-L-, UNION CROSS RD.
(SR 2643)

END PROJECT
 -L- STA. 225+10±

END CONSTRUCTION
 -Y25- STA. 10+51±

-Y25-, REYNOLDS PRICE DR.

LEGEND	
	PROPOSED CONSTRUCTION
	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

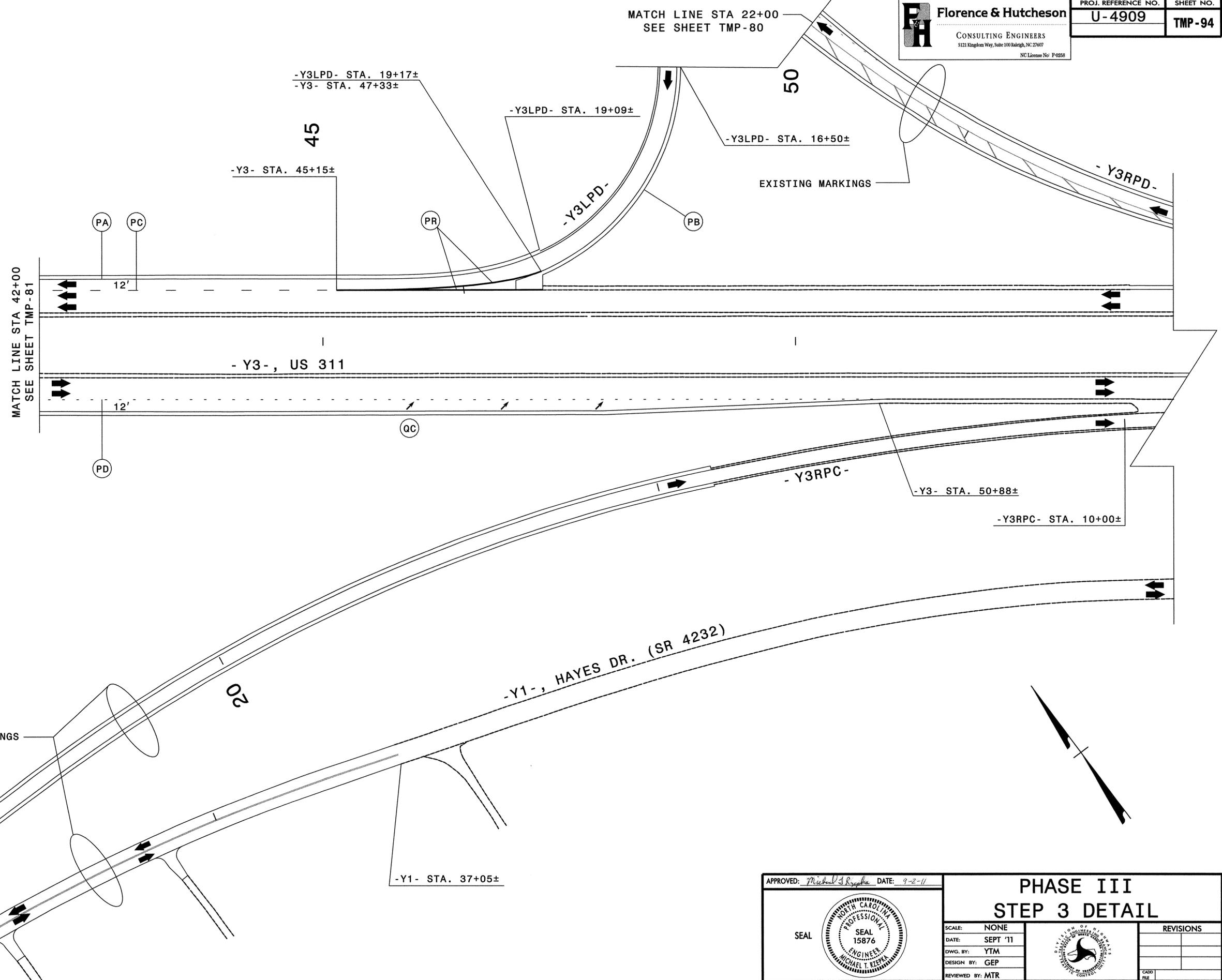
SEE SHEET TMP-77 FOR SECTION G-G'

APPROVED: *Michael T. Kzema* DATE: 9-2-11

SEAL

PHASE III STEP 3 DETAIL			REVISIONS	
SCALE:	NONE			
DATE:	SEPT '11			
DWG. BY:	YTM			
DESIGN BY:	GEP			
REVIEWED BY:	MTR			

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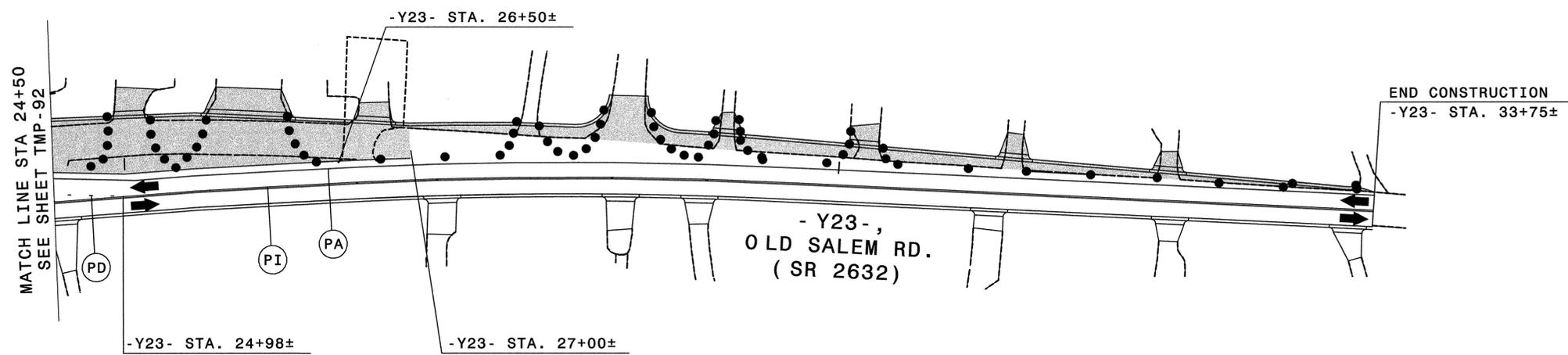
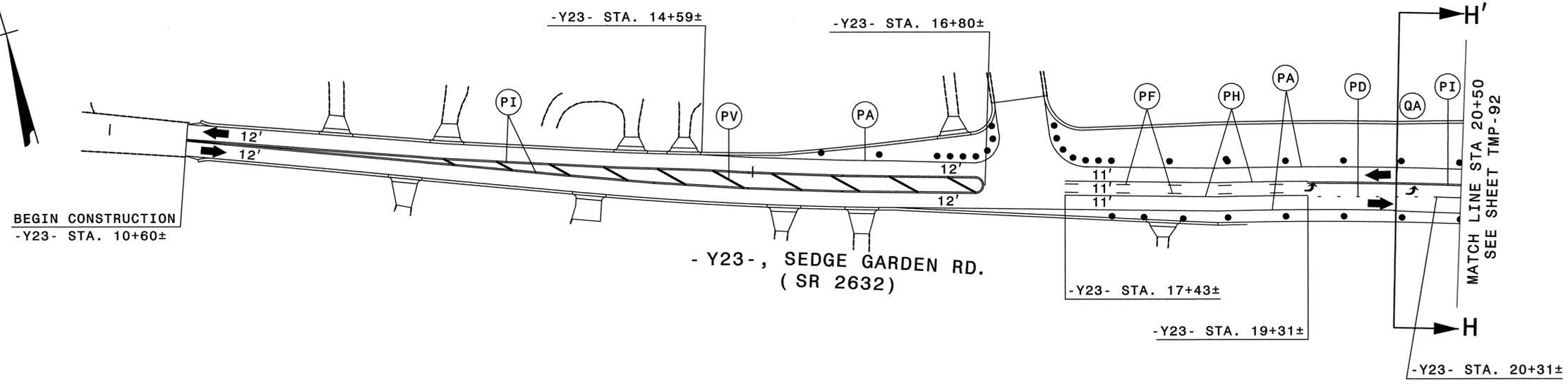
APPROVED: *Michael T. Rzepka* DATE: 9-2-11

SEAL

**PHASE III
STEP 3 DETAIL**

SCALE: NONE		REVISIONS
DATE: SEPT '11		
DWG. BY: YTM		
DESIGN BY: GEP		
REVIEWED BY: MTR		CADD FILE

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 9/2/2011 10:53:39 PM



SEE SHEET TMP-77 FOR SECTION H-H'

LEGEND	
	PROPOSED CONSTRUCTION
	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

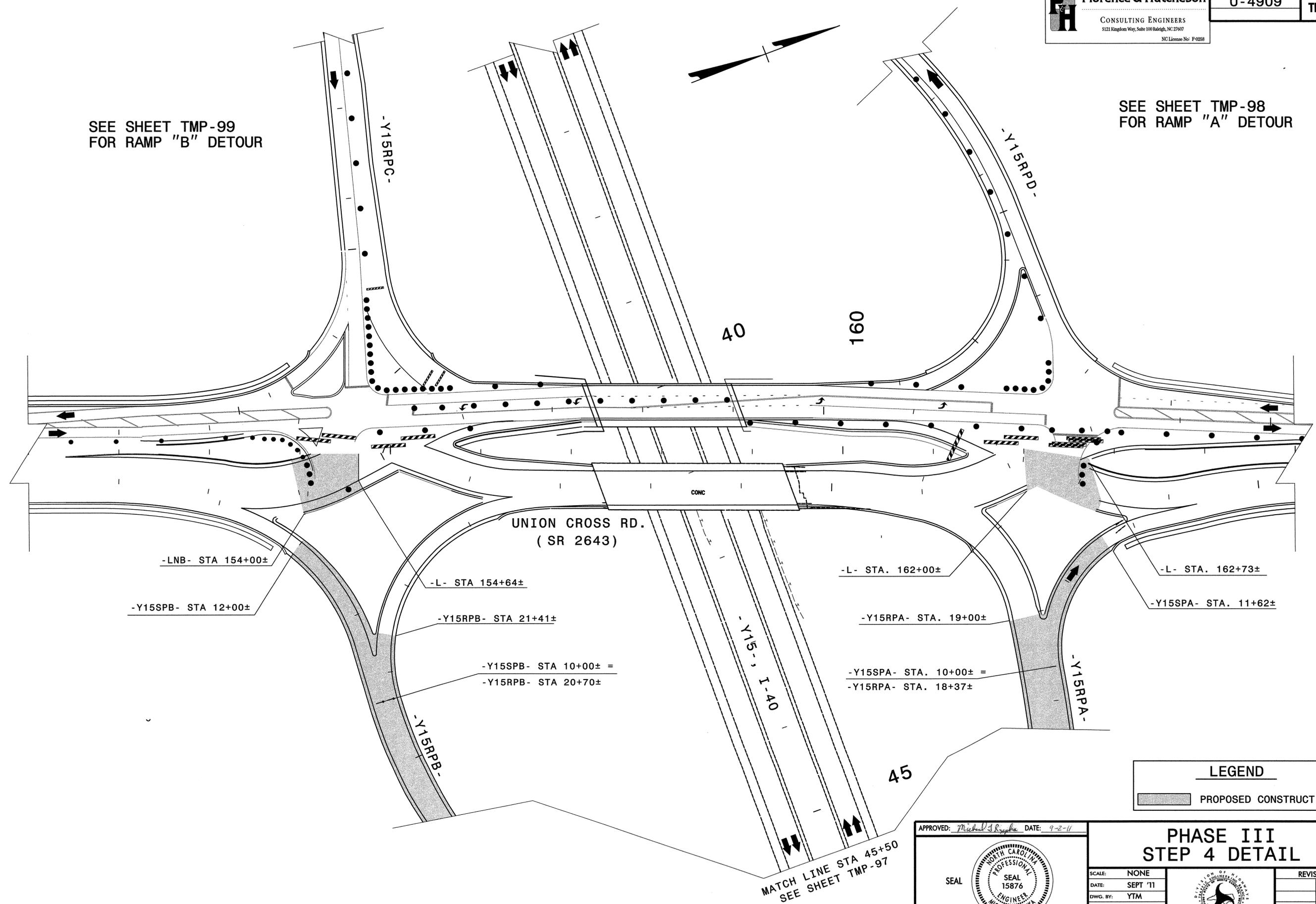
APPROVED: *Michael T. Kzema* DATE: 9-2-11

SEAL

PHASE III STEP 3 DETAIL	
SCALE: NONE	
DATE: SEPT '11	
DWG. BY: YTM	
DESIGN BY: GEP	
REVIEWED BY: MTR	REVISIONS

SEE SHEET TMP-99
 FOR RAMP "B" DETOUR

SEE SHEET TMP-98
 FOR RAMP "A" DETOUR



LEGEND

PROPOSED CONSTRUCTION

APPROVED: *Michael T. Rzepka* DATE: 9-2-11

SEAL

PROFESSIONAL ENGINEER
 SEAL
 15876
 MICHAEL T. RZEPKA

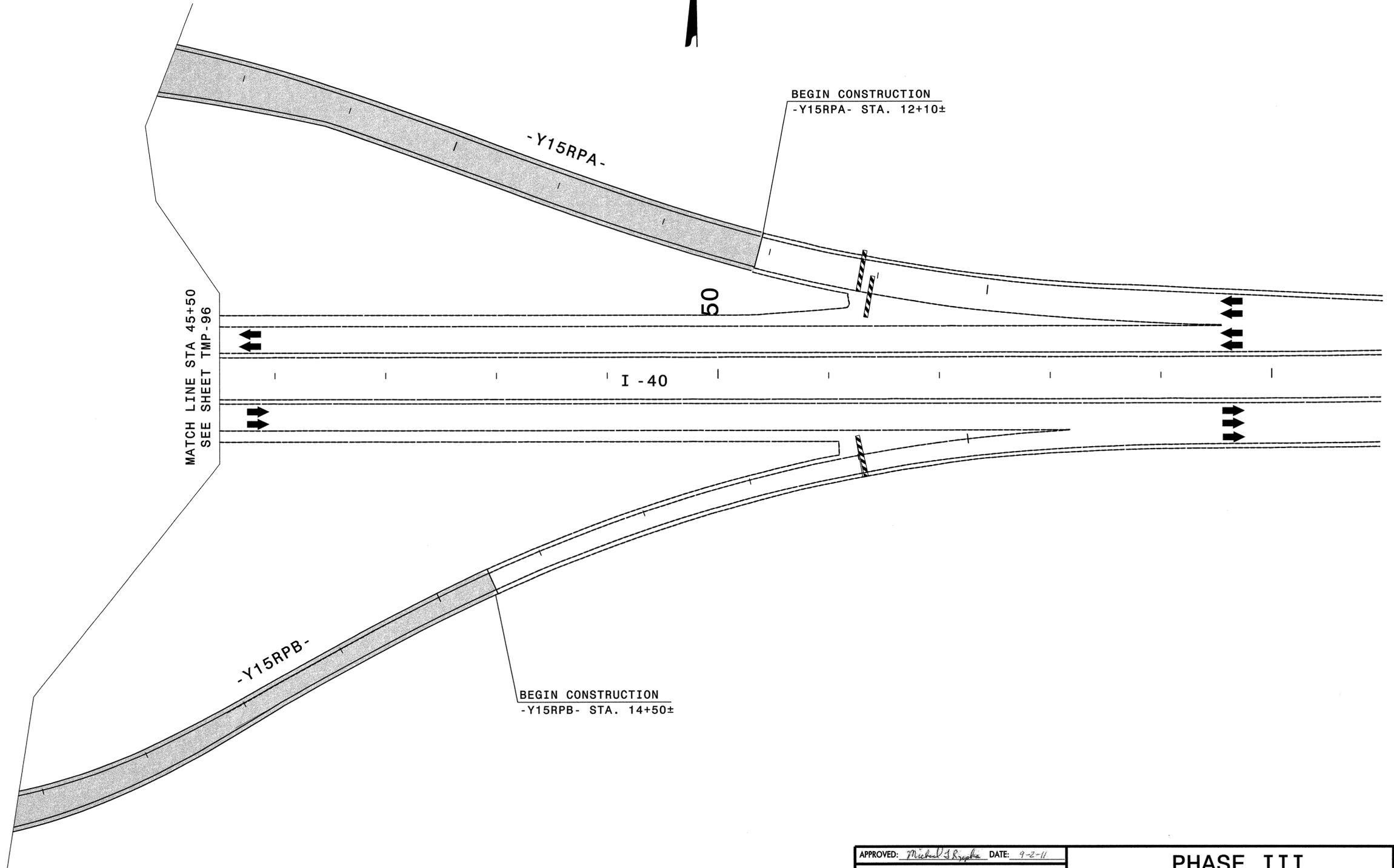
**PHASE III
 STEP 4 DETAIL**

SCALE: NONE		REVISIONS
DATE: SEPT '11		
DWG. BY: YTM		
DESIGN BY: GEP		
REVIEWED BY: MTR		

CADD FILE

MATCH LINE STA 45+50
 SEE SHEET TMP-97

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 15:55:47 PM
 9/2/2011



MATCH LINE STA 45+50
SEE SHEET TMP-96

BEGIN CONSTRUCTION
-Y15RPA- STA. 12+10±

I - 40

50

-Y15RPB-

BEGIN CONSTRUCTION
-Y15RPB- STA. 14+50±

LEGEND

 PROPOSED CONSTRUCTION

APPROVED: *Michael T. Rzepka* DATE: 9-2-11

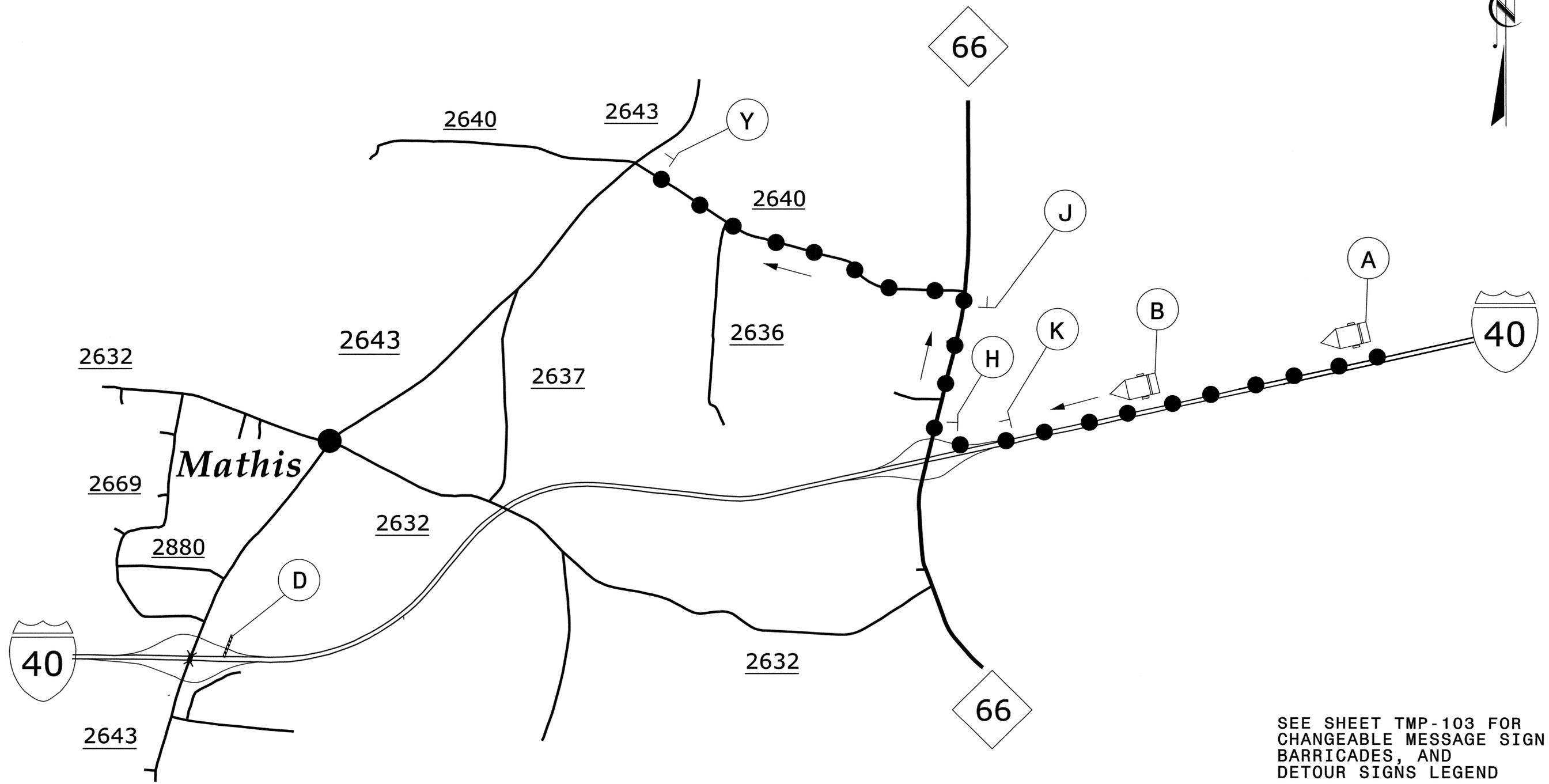
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**PHASE III
STEP 4 DETAIL**

SCALE: NONE		REVISIONS
DATE: SEPT '11		
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SEE SHEET TMP-103 FOR
 CHANGEABLE MESSAGE SIGN,
 BARRICADES, AND
 DETOUR SIGNS LEGEND

APPROVED: *Michael T. Rzepka* DATE: 9-2-11

SEAL

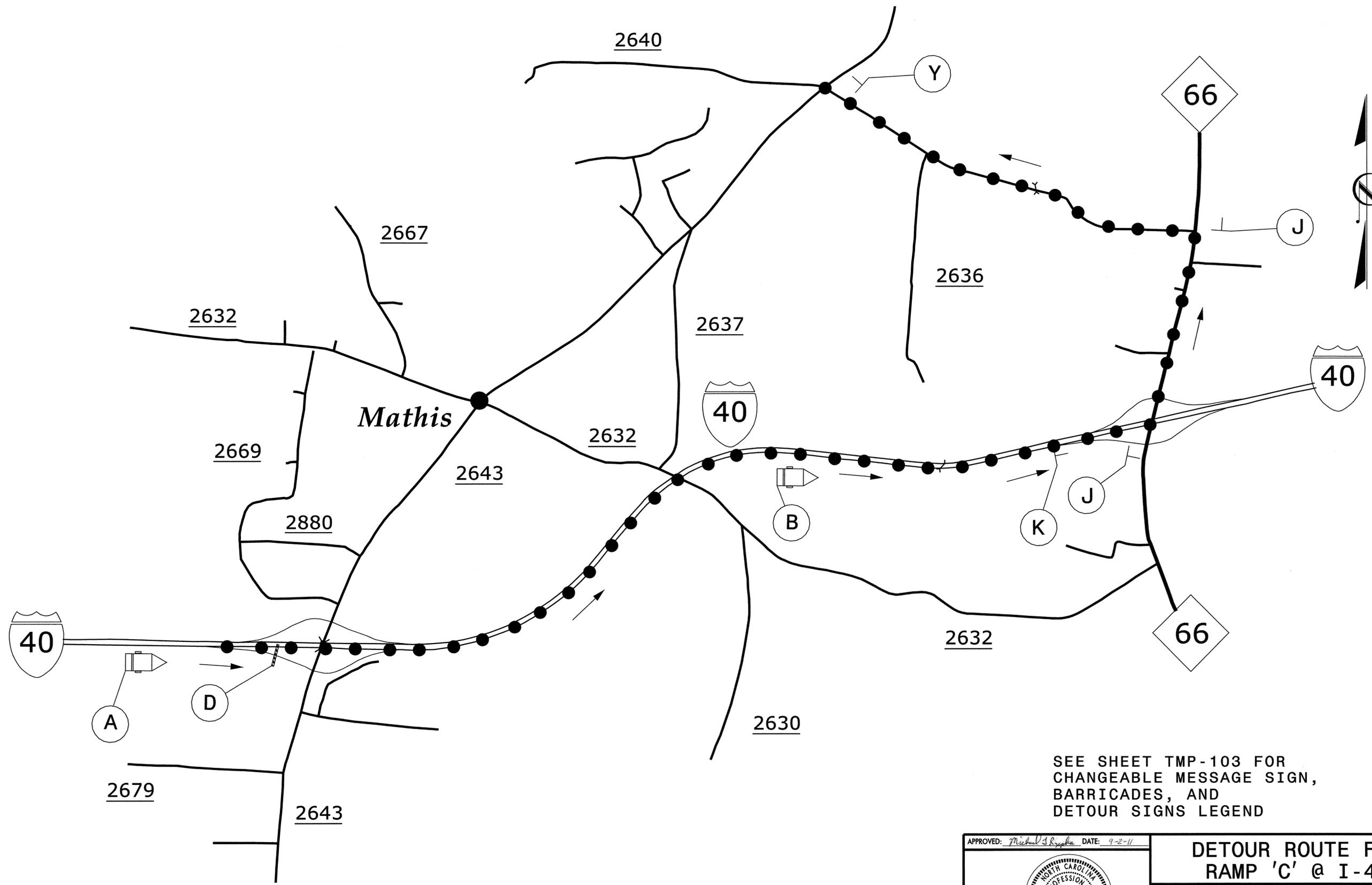
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SCALE:	NONE		
DATE:	SEPT '11		
DWG. BY:	YTM		
DESIGN BY:	GEP		
REVIEWED BY:	MTR		
		CADD	FILE

LEGEND

—●—●—●—●—●—●—

LOCAL DETOUR ROUTE

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 9/2/2011 2:08:32 PM



SEE SHEET TMP-103 FOR
 CHANGEABLE MESSAGE SIGN,
 BARRICADES, AND
 DETOUR SIGNS LEGEND

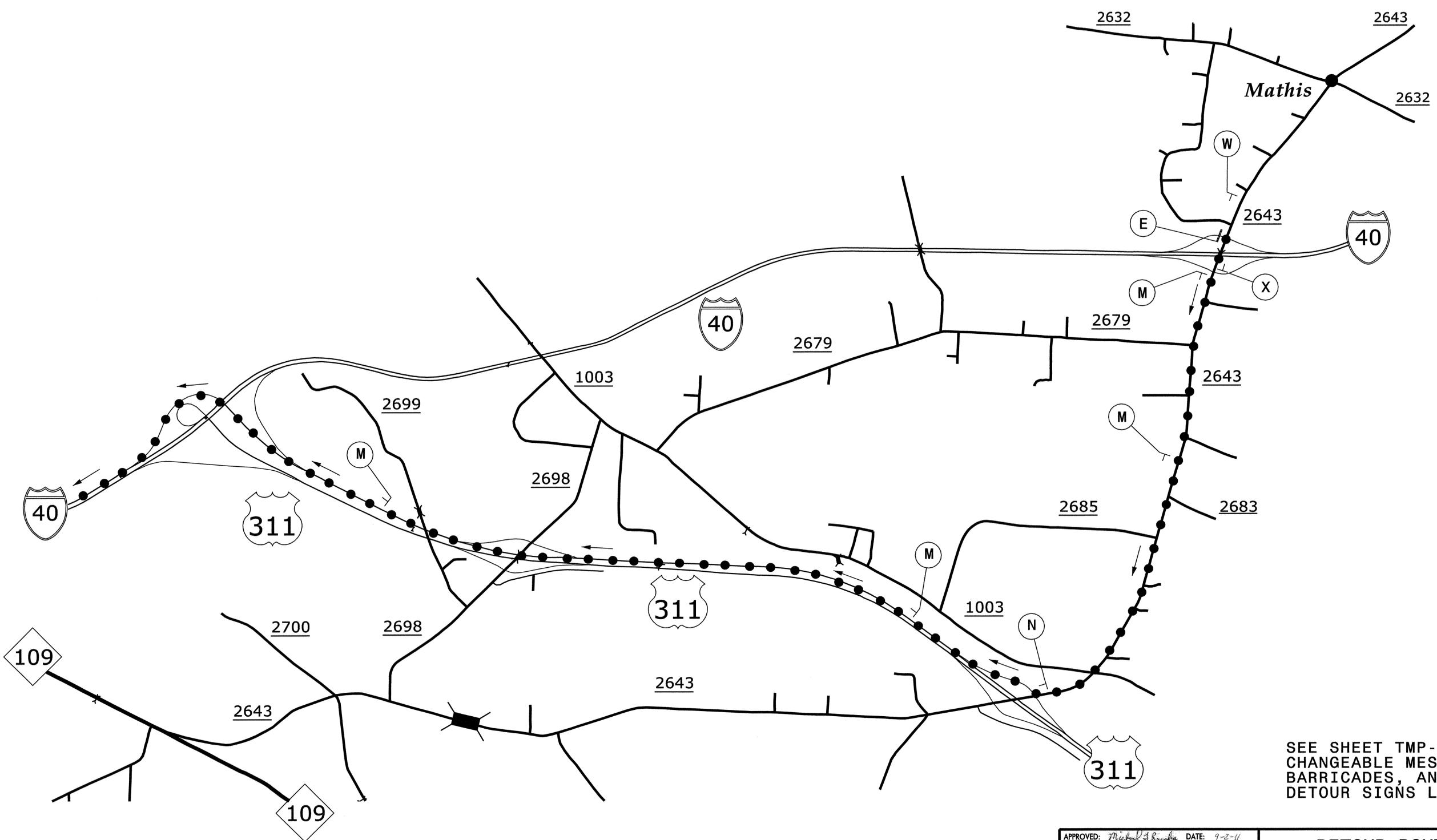


APPROVED: *Michael J. Rzepka* DATE: 9-2-11

SEAL

DETOUR ROUTE FOR RAMP 'C' @ I-40	
SCALE: NONE	
DATE: SEPT '11	
DWG. BY: YTM	
DESIGN BY: GEP	
REVIEWED BY: MTR	REVISIONS

r:\002\4909\4909_fc.dwg_rpd\gn
 9/2/2011 2:08:39 PM



SEE SHEET TMP-103 FOR
 CHANGEABLE MESSAGE SIGN,
 BARRICADES, AND
 DETOUR SIGNS LEGEND

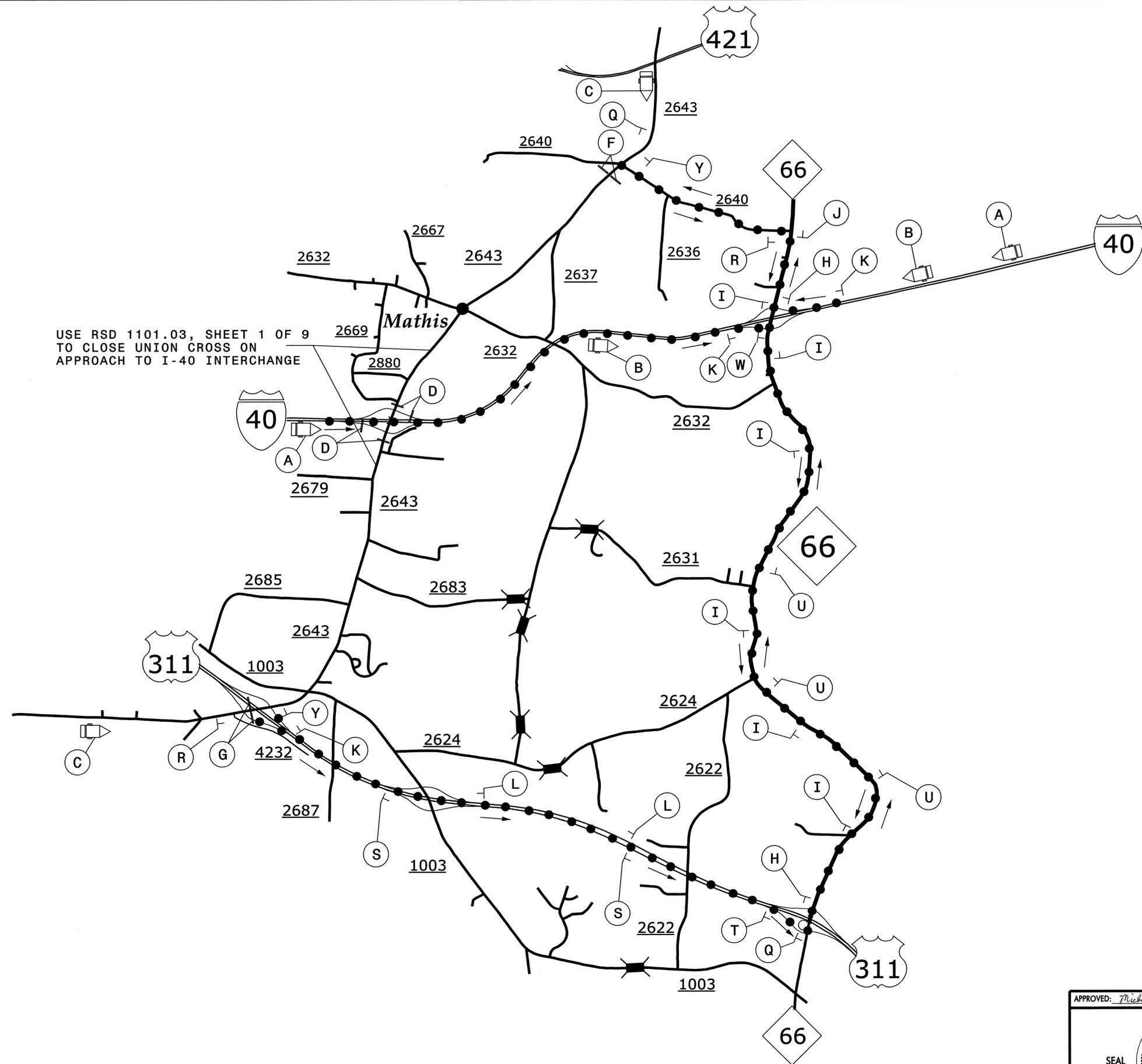
LEGEND
 ●●●●● LOCAL DETOUR ROUTE

APPROVED: *Michael T. Rzepka* DATE: 9-2-11
 SEAL

 SEAL
 15876
 ENGINEER
 MICHAEL T. RZEPKA

DETOUR ROUTE FOR RAMP 'D' @ I-40			REVISIONS	
SCALE:	NONE			
DATE:	SEPT '11			
DWG. BY:	YTM			
DESIGN BY:	GEP			
REVIEWED BY:	MTR			

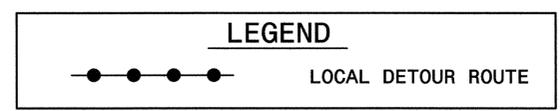
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USE RSD 1101.03, SHEET 1 OF 9
 TO CLOSE UNION CROSS ON
 APPROACH TO I-40 INTERCHANGE



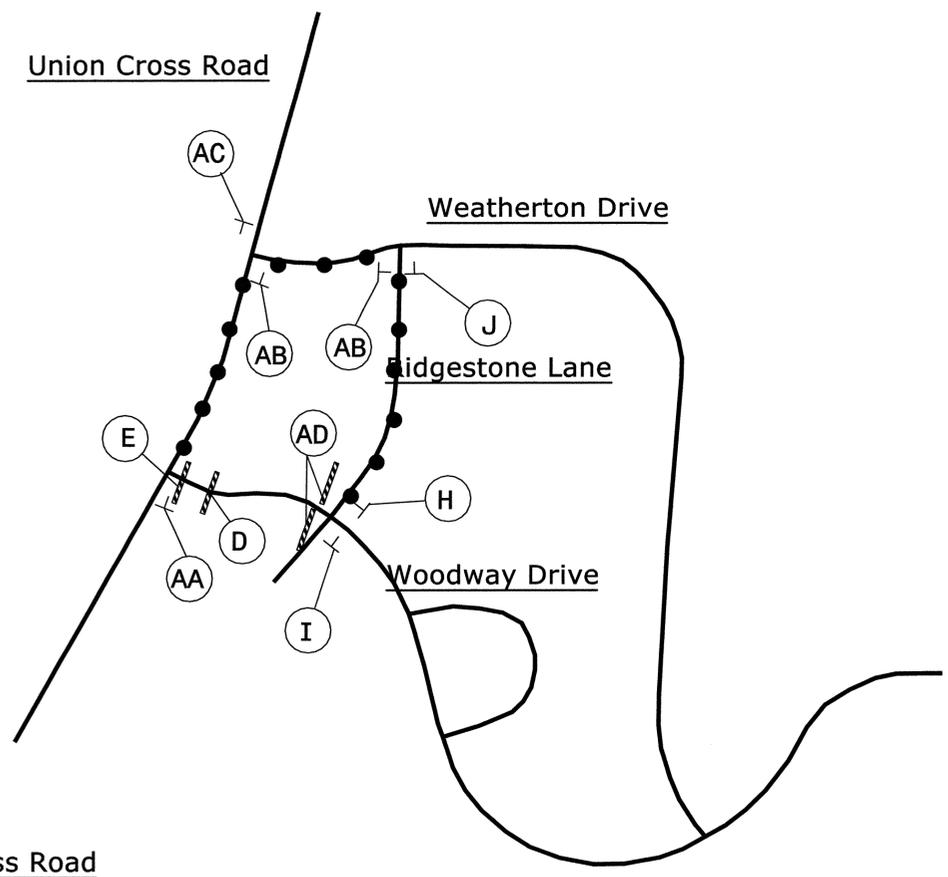
SEE SHEET TMP-103 FOR
 CHANGEABLE MESSAGE SIGN,
 BARRICADES, AND
 DETOUR SIGNS LEGEND



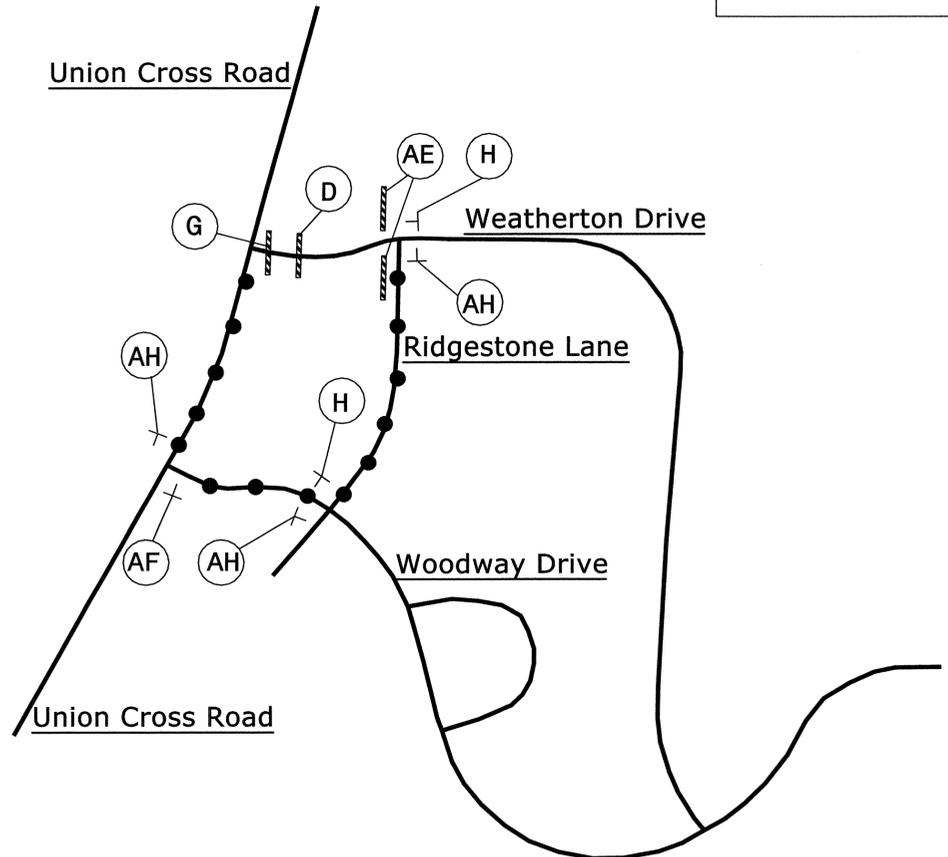
APPROVED: *Michael S. Ryznar* DATE: 9-2-11

SEAL

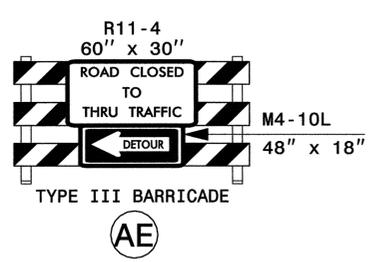
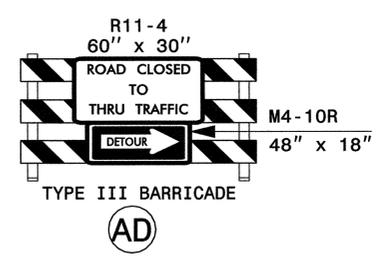
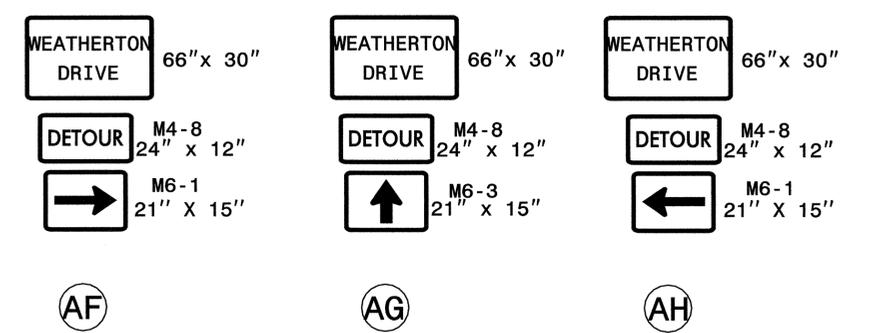
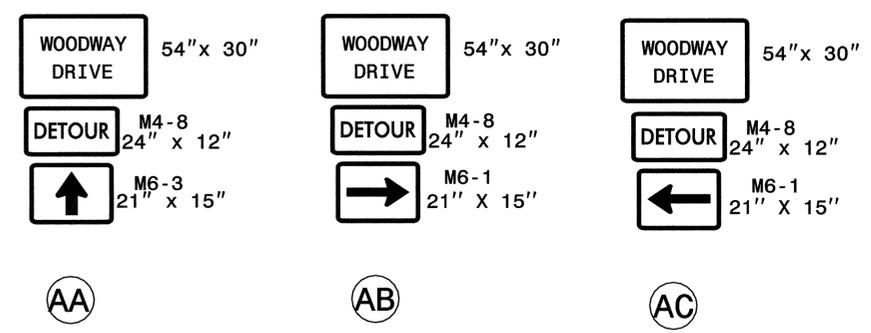
DETOUR ROUTES FOR UNION CROSS RD. (SR 2643) / I-40 INTERCHANGE CLOSURE			REVISIONS
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DESIGN BY: GEP	REVIEWED BY: MTR		



WOODWAY DRIVE DETOUR



WEATHERTON DRIVE DETOUR

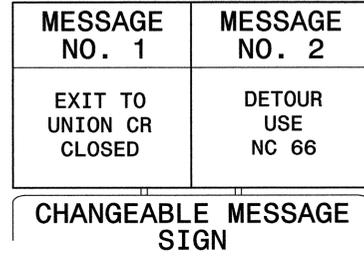


SEE SHEET TMP-103 FOR CHANGEABLE MESSAGE SIGN, BARRICADES, AND ADDITIONAL DETOUR SIGNS LEGEND

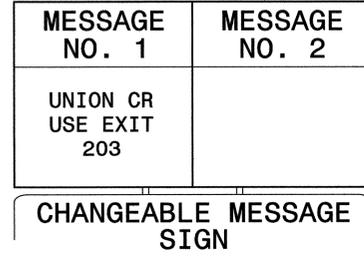
APPROVED: *Michael S. Rzepka* DATE: 9-2-11

DETOUR ROUTE FOR WOODWAY AND WEATHERTON		REVISIONS	
SCALE: NONE	DATE: SEPT '11		
DWG. BY: YTM	DESIGN BY: GEP		
REVIEWED BY: MTR			

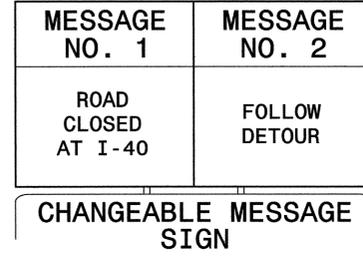
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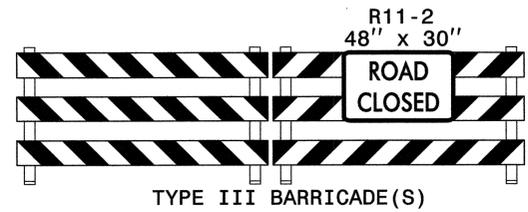
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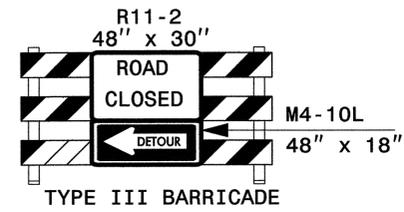
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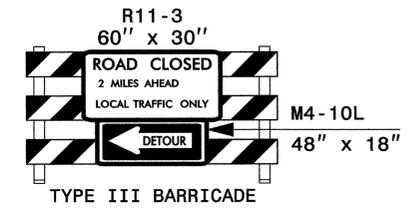
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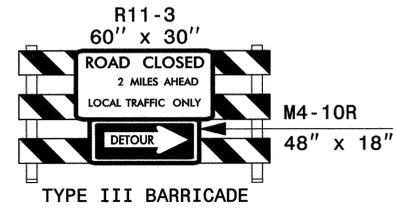
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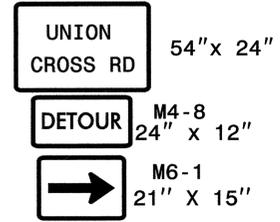
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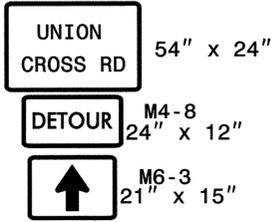
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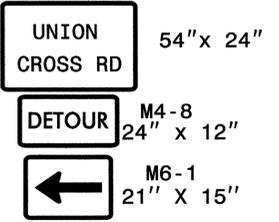
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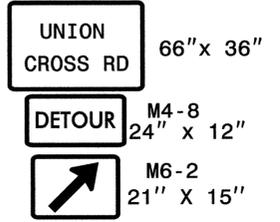
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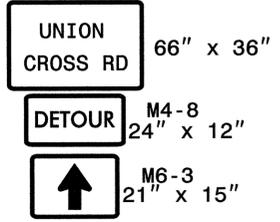
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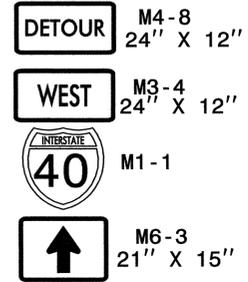
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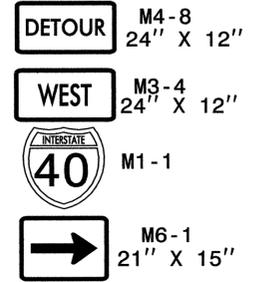
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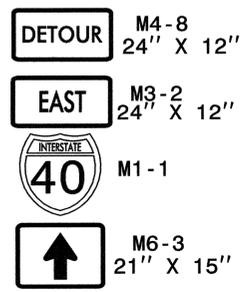
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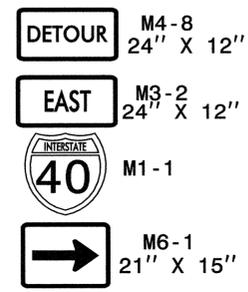
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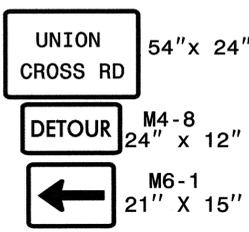
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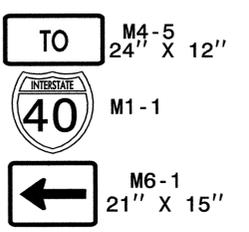
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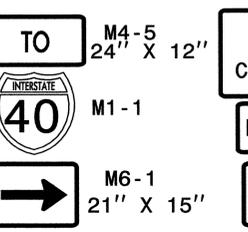
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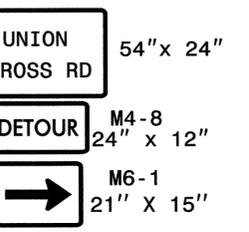
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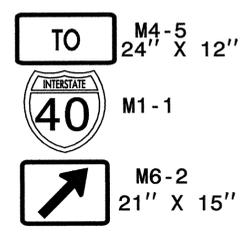
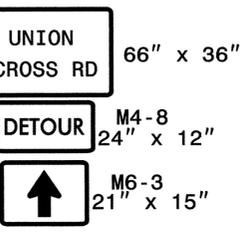
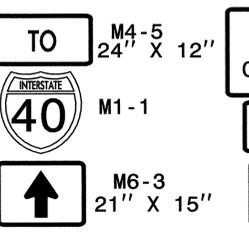
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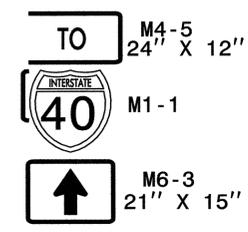
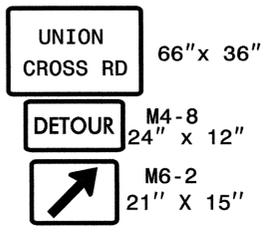
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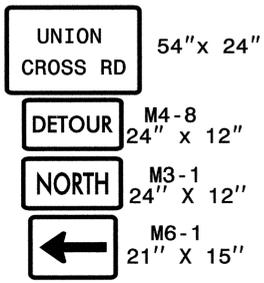
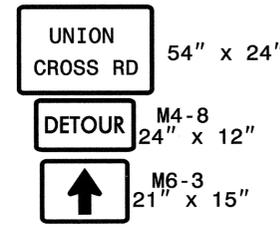
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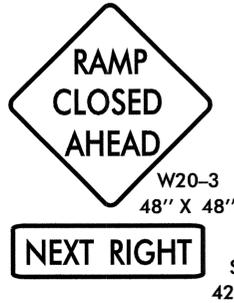
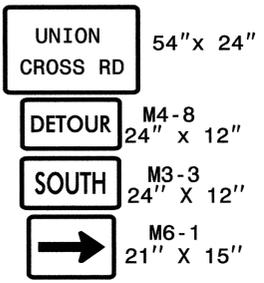
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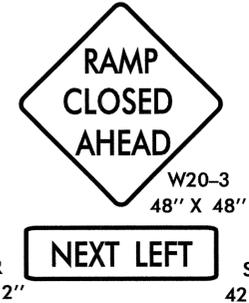
(U)



(V)



(W)



(X)



(Y)

APPROVED: *Michael J. Rzepka* DATE: 9-2-11

SEAL

CHANGEABLE MESSAGE SIGNS, BARRICADES, AND DETOUR SIGNS LEGEND

SCALE: NONE		REVISIONS
DATE: SEPT '11		
DWG. BY: YTM		
DESIGN BY: GEP		
REVIEWED BY: MTR		

CADD FILE

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 9/2/2011 2:45:51 PM