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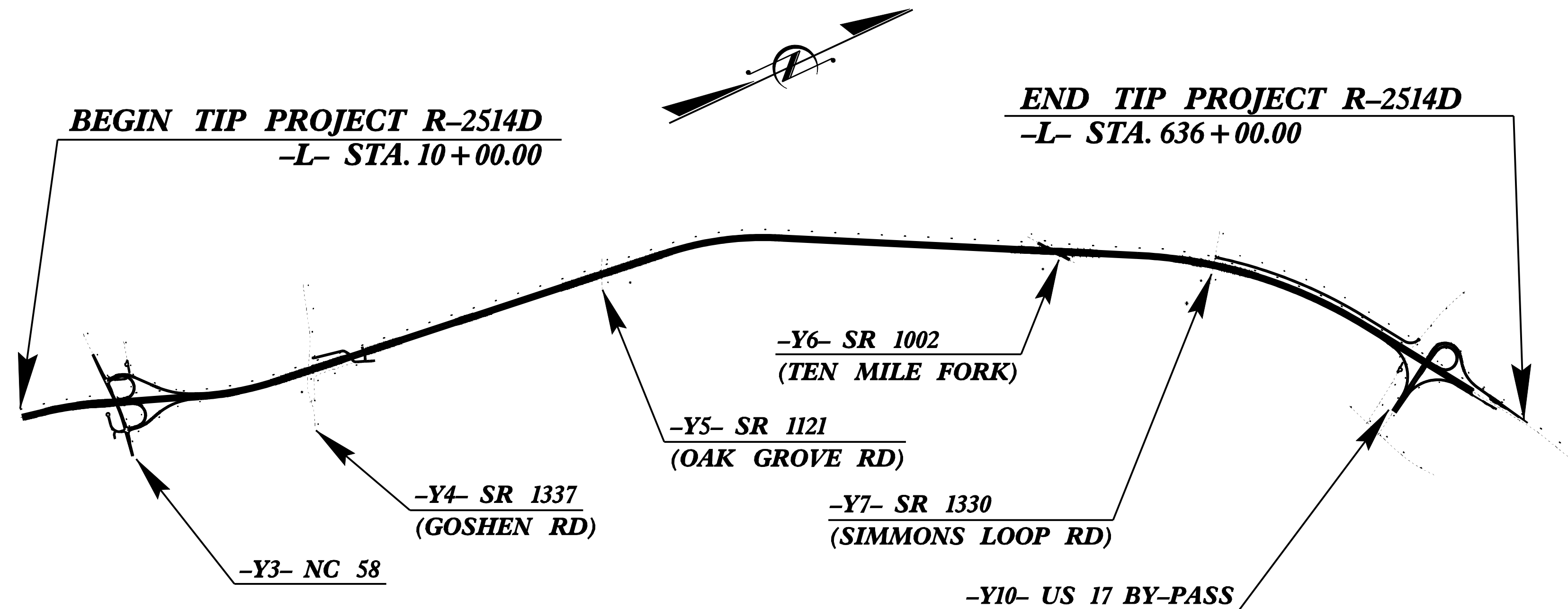
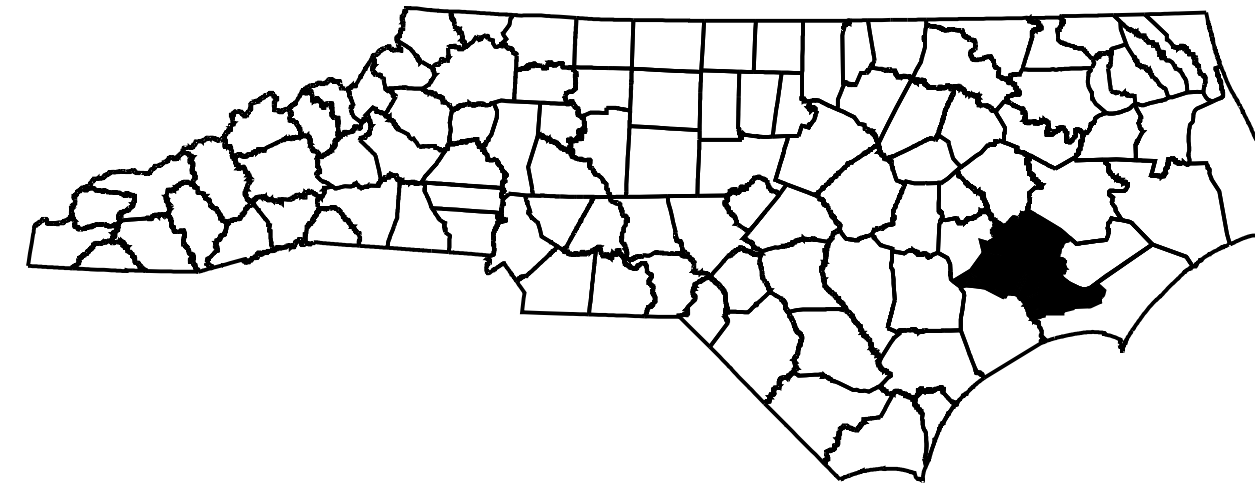
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

JONES - CRAVEN COUNTY



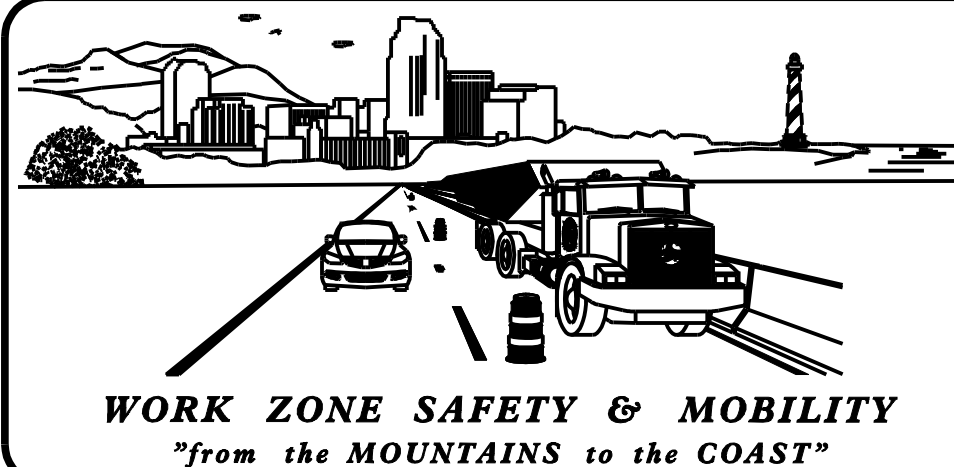
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SHEET NO.
TMP-1

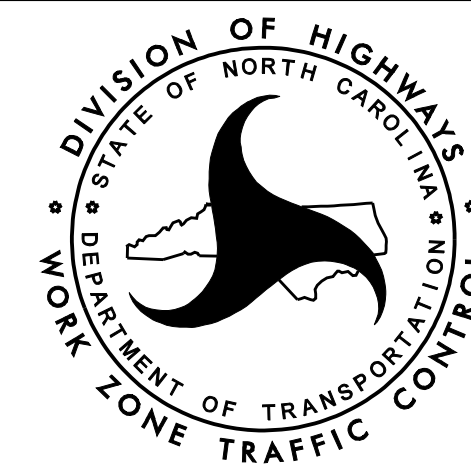
R-2514D

TIP PROJECT:



N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
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DON PARKER TRAFFIC CONTROL PROJECT DESIGN ENGINEER
TRAFFIC CONTROL DESIGN ENGINEER



Prepared in the Office of:
PROGRESSIVE DESIGN GROUP, INC.
ENGINEERS • CONSULTANTS

APPROVED: Tim Arrey
DATE: 3/27/2013

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 JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
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 BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

LEGEND

GENERAL

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

- WORK AREA
- REMOVAL
- TEMPORARY PAVEMENT
- ON-GOING CONSTRUCTION

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

PAVEMENT MARKINGS PAINT (4")

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

PAINT (8")

- PV YELLOW DIAGONAL

PAINT (24")

- P2 WHITE STOPBAR

PAINT SYMBOLS

- QP MERGE ARROW

COLD APPLIED PLASTIC (4")

- CA WHITE EDGELINE
- CD 3 FT. - 9 FT./SP WHITE MINISKIP

COLD APPLIED PLASTIC SYMBOLS

- DP MERGE ARROW

PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: DATE: 3/27/2015 		ROADWAY STANDARD DRAWINGS & LEGEND
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MANAGEMENT STRATEGIES

THE MAJORITY OF THIS PROJECT CAN BE CONSTRUCTED WITHOUT INTERFERING WITH EXISTING TRAFFIC PATTERNS. COORDINATION WITH THE CONTRACTOR OF THE ADJACENT R-2519B/C PROJECT WILL BE REQUIRED FOR A PHASE II TRAFFIC SHIFT AT THE NC 58 INTERCHANGE. AN OFF SITE DETOUR WILL BE UTILIZED TO COMPLETE CONSTRUCTION ON THE -Y10- INTERCHANGE JUST PRIOR TO OPENING UP THE ENTIRE PROJECT TO THE FINAL TRAFFIC PATTERN.

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR 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
US 17	MONDAY THRU FRIDAY 6:00 AM TO 9:00 AM AND 4:00 PM TO 6:00 PM

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

ROAD NAME
US 17, NC 58

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 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
"ALL"	MONDAY THRU SUNDAY 6:00 A.M. TO 9:00 P.M.	30 MINUTES FOR HANGING GIRDERS AND COVERING/UNCOVERING OVERHEAD SIGNS

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

LANE AND SHOULDER CLOSURE REQUIREMENTS

E) REMOVE LANE CLOSURE 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.

- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC 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.
- I) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- J) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:
- BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
- BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
- BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- K) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 350 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- M) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- N) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.
- PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- O) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.
- COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 350 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

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

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

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

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

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

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

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

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

TRAFFIC CONTROL DEVICES

- T) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- U) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- V) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

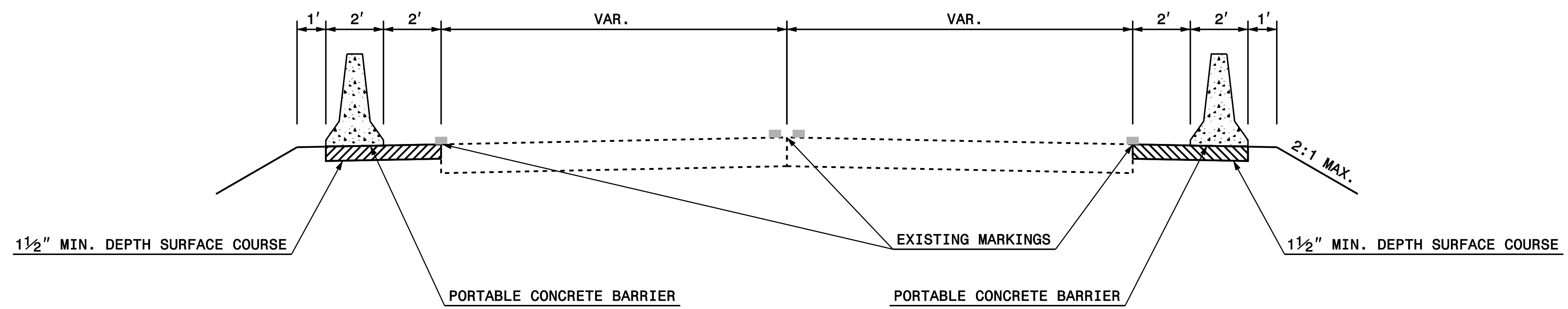
W) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT/COLD APPLIED PLASTIC	TEMPORARY RAISED
STRUCTURES	COLD APPLIED PLASTIC	TEMPORARY RAISED

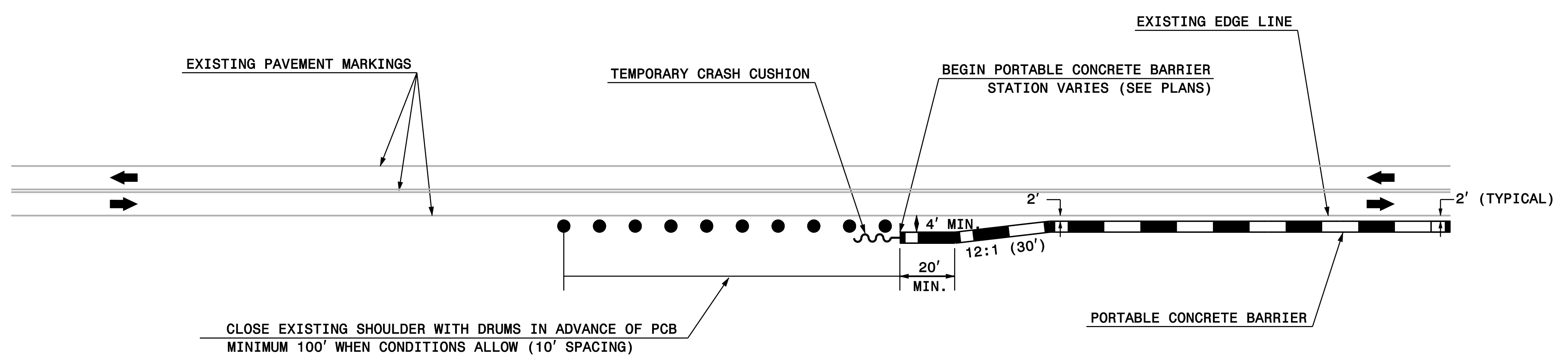
- X) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- Y) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- Z) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: <u>Tim Apley</u> DATE: <u>3/27/2015</u>	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	TRANSPORTATION OPERATIONS PLAN GENERAL NOTES
	SEAL 		

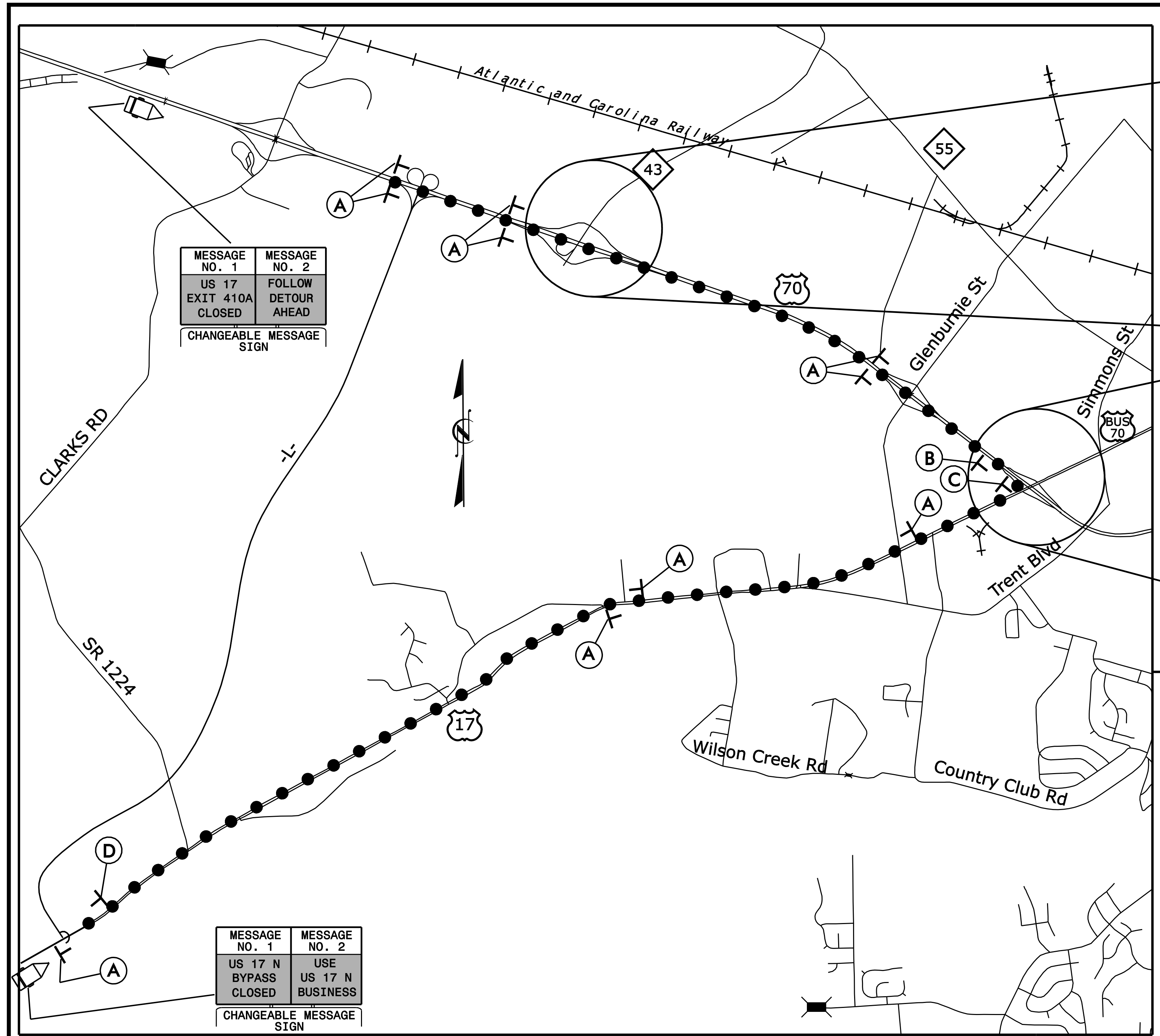
TYPICAL #1: PORTABLE CONCRETE BARRIER SECTION



TYPICAL #2: LEADING EDGE LAYOUT FOR PORTABLE CONCRETE BARRIER

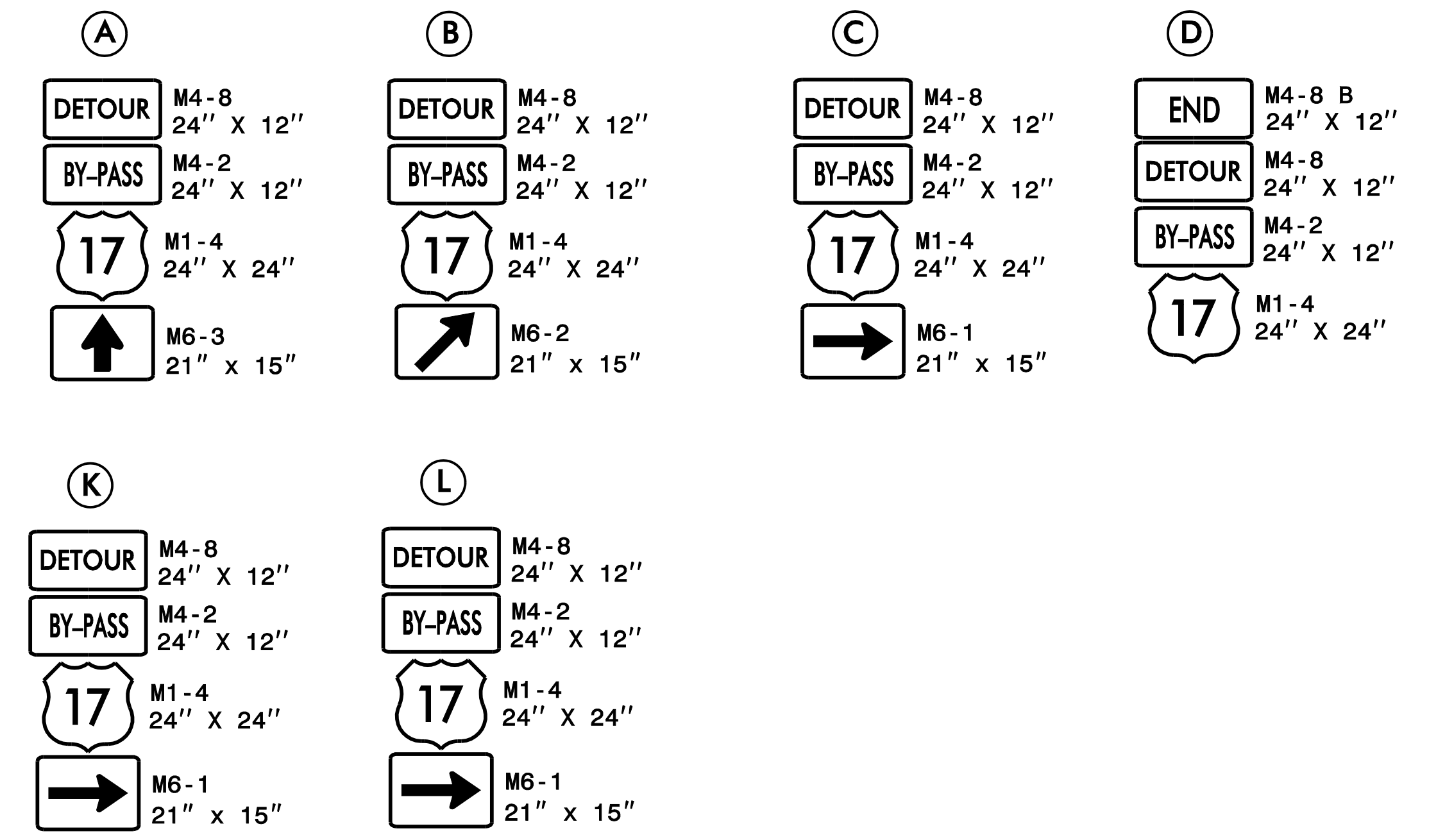
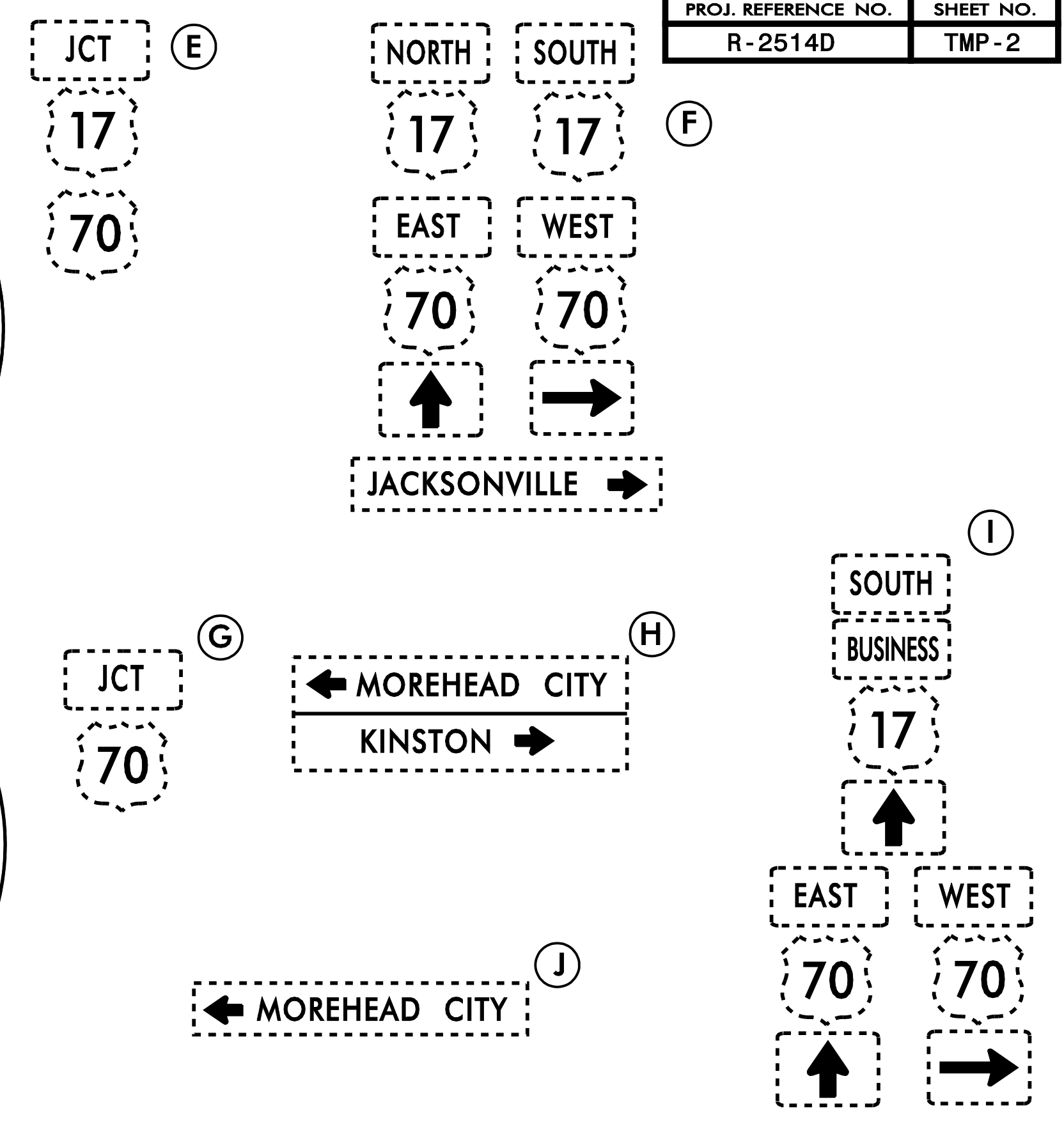


<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Jim Apley</i> DATE: 3/27/2015</p> <p>SEAL</p>		<p align="center">ROADWAY STANDARD DRAWINGS & LEGEND PCB TYPICALS</p>
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MESSAGE NO. 1	MESSAGE NO. 2
US 17 EXIT 410A CLOSED	FOLLOW DETOUR AHEAD
CHANGEABLE MESSAGE SIGN	

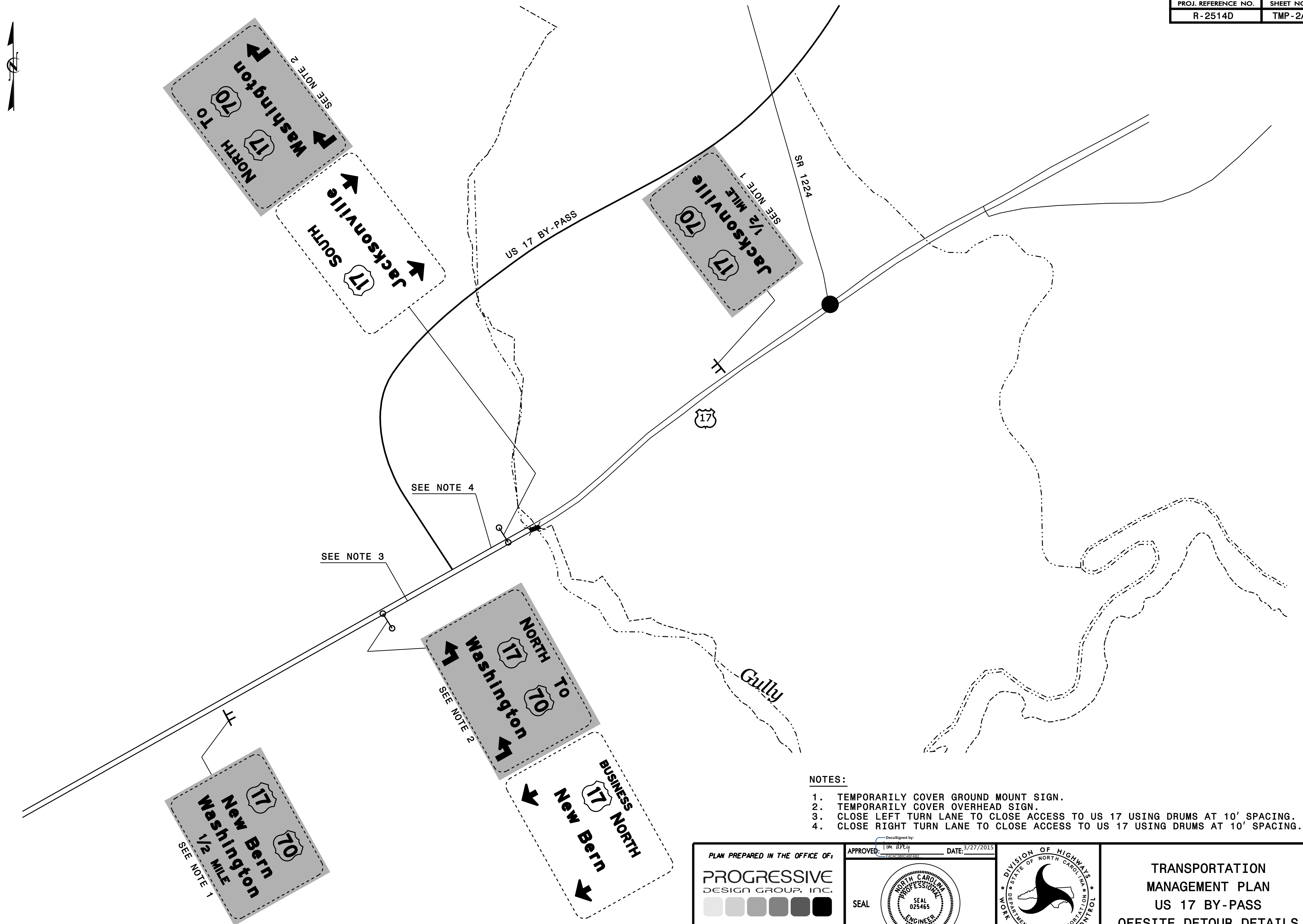
MESSAGE NO. 1	MESSAGE NO. 2
US 17 N BYPASS CLOSED	USE US 17 N BUSINESS
CHANGEABLE MESSAGE SIGN	



DETOUR ROUTE

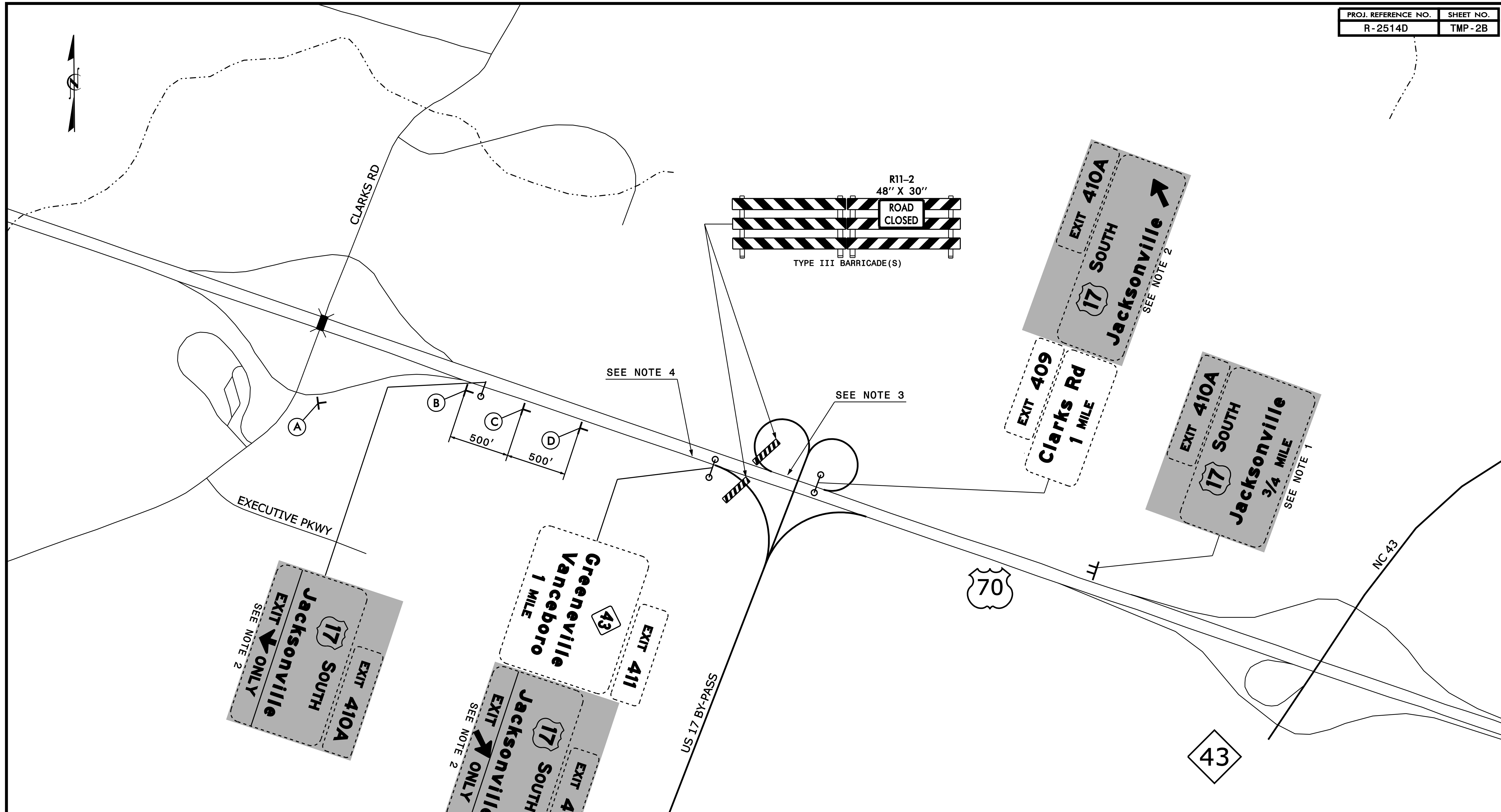
ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
FINAL PLACEMENT AS DIRECTED BY ENGINEER.

<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tim Are</i> DATE: 3/27/2015</p>			<p>TRANSPORTATION MANAGEMENT PLAN US 17 BY-PASS OFFSITE DETOUR ROUTE</p>
	SEAL			



- NOTES:**
1. TEMPORARILY COVER GROUND MOUNT SIGN.
 2. TEMPORARILY COVER OVERHEAD SIGN.
 3. CLOSE LEFT TURN LANE TO CLOSE ACCESS TO US 17 USING DRUMS AT 10' SPACING.
 4. CLOSE RIGHT TURN LANE TO CLOSE ACCESS TO US 17 USING DRUMS AT 10' SPACING.

<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tim Rely</i> DATE: 3/27/2015</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN US 17 BY-PASS OFFSITE DETOUR DETAILS</p>
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- NOTES:**
1. TEMPORARILY COVER GROUND MOUNT SIGN. (SEE SPECIAL PROVISION)
 2. TEMPORARILY COVER OVERHEAD SIGN. (SEE SPECIAL PROVISION)
 3. COMPLETELY CLOSE THE DECELERATION LANE FOR THE US 70 OFF LOOP USING DRUMS SPACED AT 10' ON CENTER.
 4. IN ADDITION TO ADVANCE WARNING SIGNS B, C, AND D, PLACE A 400' DRUM TAPER TO MERGE CLARKS RD ON RAMP INTO THE US 70 OUTSIDE THRU LANE.

SIGN ASSEMBLY A	SIGN ASSEMBLY B	SIGN ASSEMBLY C	SIGN ASSEMBLY D
W 48" X 48"	W20-5 R 48" X 48"	W4-2R 48" X 48"	W20-5 R 48" X 48"

PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: DATE: 3/27/2015 SEAL:		TRANSPORTATION MANAGEMENT PLAN US 17 BY-PASS OFFSITE DETOUR DETAILS
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PHASE I

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.01.

NOTE: PHASE I, STEP 2 MAY PROCEED CONCURRENTLY WITH PHASE I, STEP 3 AND PHASE I, STEP 4.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE I, STEP 2 IN ACCORDANCE WITH INTERMEDIATE CONTRACT TIME.

STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL PORTABLE CONCRETE BARRIER ON -Y3- IN THE LOCATIONS SHOWN ON SHEETS TMP-4 AND TMP-5 AND CONSTRUCT THE PROPOSED -L- BRIDGES OVER -Y3- AS SHOWN ON SHEETS TMP-5.

PERMANENTLY CLOSE -Y3A- AT THE -Y3- INTERSECTION AND CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE: (USE ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15 AS DEEMED NECESSARY BY THE CONDITIONS DESCRIBED

- -L- (NB): FROM STA. 300+00+/- TO STA. 326+00+/- AS SHOWN ON SHEET TMP-5 AND THE ROADWAY DESIGN PLANS.
- -L- (SB): FROM STA. 300+00+/- TO STA. 324+00+/- AS SHOWN ON SHEET TMP-5 AND THE ROADWAY DESIGN PLANS.
- -Y3-: FROM STA. 19+40+/- TO STA. 24+00+/- AND FROM STA. 30+75+/- TO STA. 35+20+/- AS SHOWN ON SHEETS TMP-4 AND TMP-5.
- -Y3RPA-: FROM STA. 26+35+/- TO THE -Y3- INTERSECTION AS SHOWN ON SHEET TMP-4.
- -Y3LPA-: ENTIRE LOOP AS SHOWN ON SHEETS TMP-4 AND TMP-5.
- -Y3RPD-: FROM STA. 24+00+/- TO THE -Y3- INTERSECTION AS SHOWN ON SHEET TMP-5.
- -Y3LPD-: ENTIRE LOOP AS SHOWN ON SHEET TMP-5.
- -Y3B-: IN THE LOCATIONS SHOWN ON SHEET TMP-5.
- -DRB2-: IN THE LOCATIONS SHOWN ON SHEET TMP-5.

NOTE: COORDINATE WITH THE CONTRACTOR OF THE R-2514B/C PROJECT TO ALLOW THE OPENING OF THE NC 58 INTERCHANGE IN A TEMPORARY CONFIGURATION AT THE COMPLETION OF PHASE I, STEP 2.

NOTE: PHASE I, STEP 3 AND PHASE I, STEP 4 MAY BE PERFORMED CONCURRENTLY.

STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL PORTABLE CONCRETE BARRIER ON -Y4-, -Y5-, -Y6- AND -Y7- IN THE LOCATIONS SHOWN ON SHEETS TMP-6 THRU TMP-8 AND BEGIN CONSTRUCTION ON ALL OF THE PROPOSED BRIDGES WITHIN THE PROJECT LIMITS.

BEGIN CONSTRUCTION ON THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE: (USE ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15 AS DEEMED NECESSARY BY THE CONDITIONS DESCRIBED IN GENERAL NOTES F AND G ON SHEET TMP-1B)

- -L- (NB): FROM STA. 326+00+/- TO STA. 606+85+/- AND FROM STA. 607+70+/- TO STA. 616+25+/- -L- AS SHOWN ON SHEETS TMP-5 THRU TMP-9 AND THE ROADWAY DESIGN PLANS. KEEP ACCESS OPEN TO THE EXISTING DRIVEWAY TO THE RIGHT OF STA. 27+00+/- -Y4- UNTIL PROPOSED -DRV3- IS CONSTRUCTED AND OPEN TO TRAFFIC AS SHOWN ON SHEET TMP-6.
- -L- (SB): FROM STA. 324+00+/- TO STA. 606+85+/- AND FROM STA. 607+70+/- TO STA. 618+25+/- -L- AS SHOWN ON SHEETS TMP-5 THRU TMP-9 AND THE ROADWAY DESIGN PLANS. KEEP ACCESS OPEN TO THE EXISTING DRIVEWAY TO THE RIGHT OF STA. 27+00+/- -Y4- UNTIL PROPOSED -DRV3- IS CONSTRUCTED AND OPEN TO TRAFFIC AS SHOWN ON SHEET TMP-6.
- -Y8A-: FROM THE -Y7- INTERSECTION TO STA. 58+35+/- AS SHOWN ON SHEET TMP-9.

STEP 4: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, COMPLETE THE FOLLOWING:
- INSTALL PAVEMENT MARKINGS AND SIGNS FOR THE NORTHBOUND -Y10- 'RIGHT LANE MERGE' TRAFFIC PATTERN SHOWN ON SHEETS TMP-9, TMP-10, AND TMP-11. INSTALL PORTABLE CONCRETE BARRIER AND A TEMPORARY CRASH CUSHION ON -Y10RPD- IN THE LOCATIONS SHOWN ON SHEETS TMP-9 AND TMP-10.

BEGIN CONSTRUCTION ON THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:

- -Y10- (EB): FROM STA. 21+70+/- TO STA. 30+00+/- AS SHOWN ON SHEETS TMP-9 AND TMP-12.
- -Y10- (WB): FROM STA. 23+40+/- TO STA. 30+00+/- AS SHOWN ON SHEET TMP-12.
- -Y10RPA-: FROM STA. 15+70+/- -Y10RPA- TO STA. 30+00+/- -Y10- AS SHOWN ON SHEETS TMP-9 AND TMP-10.
- -Y10LPA-: FROM -L- INTERSECTION TO STA. 30+00+/- -Y10- AS SHOWN ON SHEET TMP-9.
- -Y10RPC-: FROM -L- INTERSECTION TO STA. 15+70+/- -Y10RPC- AND FROM STA. 16+60+/- -Y10RPC- TO STA. 23+15+/- -Y10RPC- AS SHOWN ON SHEETS TMP-9 AND TMP-12.
- -Y10RPD-: FROM STA. 18+00+/- -Y10RPD- TO STA. 629+75+/- -L- AS SHOWN ON SHEETS TMP-9 AND TMP-10 INCLUDING THE PROPOSED NORTHBOUND -L- BRIDGE WIDENING AT STA. 625+00+/- -L- AS SHOWN ON SHEET TMP-10.

PHASE II

STEP 1: REMOVE CONSTRUCTION EQUIPMENT AND CLEAN PAVEMENT SURFACES ON ALL ROADWAYS REQUIRED TO IMPLEMENT THE TRAFFIC PATTERN SHOWN ON SHEETS TMP-12 THRU TMP-14. COORDINATE THE TRAFFIC SHIFT SHOWN ON SHEETS TMP-12 THRU TMP-14 WITH THE CONTRACTOR OF THE R-2514B/C PROJECT.

COMPLETE CONSTRUCTION ON -Y8A- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM THE -Y7- INTERSECTION TO STA. 58+35+/- AS SHOWN ON SHEET TMP-9.

CONTINUE CONSTRUCTION ON ALL REMAINING ROADWAYS AND BRIDGES, AS BEGUN IN PHASE I, STEPS 3 AND 4, TO A LEVEL THAT WILL NOT HAVE ANY IMPACT ON THE TIME ALLOWED TO COMPLETE THE PHASE III INTERMEDIATE CONTRACT TIME INCLUDING THE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS FOR THE PHASE III, STEP 4 AND STEP 5 TRAFFIC PATTERN.

PHASE III

STEP 1: AWAY FROM TRAFFIC INSTALL TEMPORARY PAINT PAVEMENT MARKINGS ON -Y8A- AS SHOWN ON SHEET TMP-15. USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, TIE IN PROPOSED -Y8A- TO EXISTING -Y8- AND SIMULTANEOUSLY CLOSE -Y8- AT STA. 31+00+/- -Y8-. CONSTRUCT THE PROPOSED CUL-DE-SAC ON -Y8- AT THE LOCATION SHOWN ON SHEET TMP-15. REMOVE EXISTING -Y8- IN THE LOCATIONS SHOWN ON SHEET TMP-15 AND BEGIN CONSTRUCTION ON -L- FROM STA. 606+85+/- TO STA. 607+70+/- AND ON -Y10RPC- FROM STA. 15+70+/- TO STA. 16+60+/- AS SHOWN ON SHEET TMP-15.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE III, STEP 2 THRU STEP 5 IN 90 CONSECUTIVE CALENDAR DAYS. (SEE SPECIAL PROVISIONS)

STEP 2: INSTALL THE OFF SITE DETOUR SIGNING FOR THE CLOSURE OF -Y10- AS SHOWN ON SHEETS TMP-2 THRU TMP-2B. TEMPORARILY COVER THE EXISTING OVERHEAD AND GROUND MOUNTED GUIDE SIGNS SHOWN ON SHEETS TMP-2A AND TMP-2B AND CLOSE ACCESS TO -Y10- FROM THE EXISTING -Y9- INTERSECTION AND ALSO CLOSE ACCESS TO -L- AT THE US 70 INTERCHANGE AS SHOWN ON SHEETS TMP-2 THRU TMP-2B AND TMP-15 AND TMP-16.

STEP 3: REMOVE EXISTING -Y10- IN THE LOCATIONS SHOWN ON SHEET TMP-15 AND CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON SHEET TMP-15:

- -L- (NB): FROM 616+25+/- -L- TO STA. 623+40+/- -L-.
- -L- (SB): FROM 618+25+/- -L- TO STA. 623+40+/- -L-.
- -Y10- (EB): FROM STA. 15+80+/- -Y10- TO STA. 21+70+/- -Y10-.
- -Y10- (WB): FROM STA. 15+80+/- TO STA. 23+40+/-.
- -Y10RPA-: FROM 15+70+/- -Y10RPA- TO STA. 637+00+/- -L-.
- -Y10RPC-: FROM -Y10- INTERSECTION TO STA. 23+15+/- -Y10RPC-.
- -Y10RPD-: FROM -Y10- INTERSECTION TO STA. 623+40+/- -L- AS SHOWN ON SHEET TMP-15.


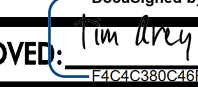
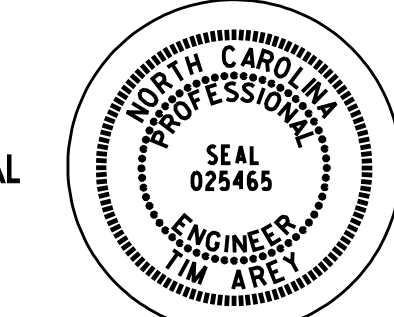
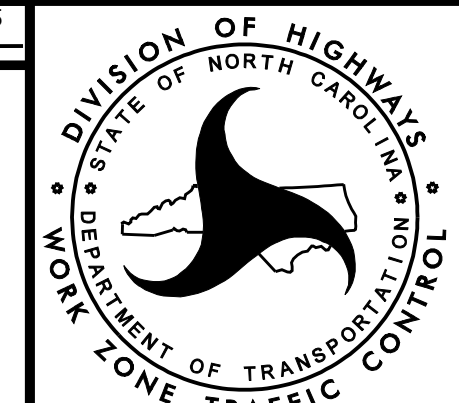
COMPLETE CONSTRUCTION ON ALL REMAINING ROADWAYS UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

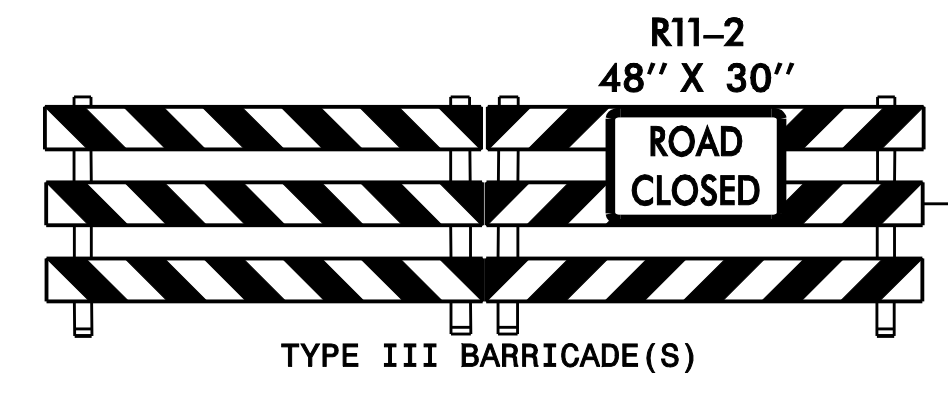
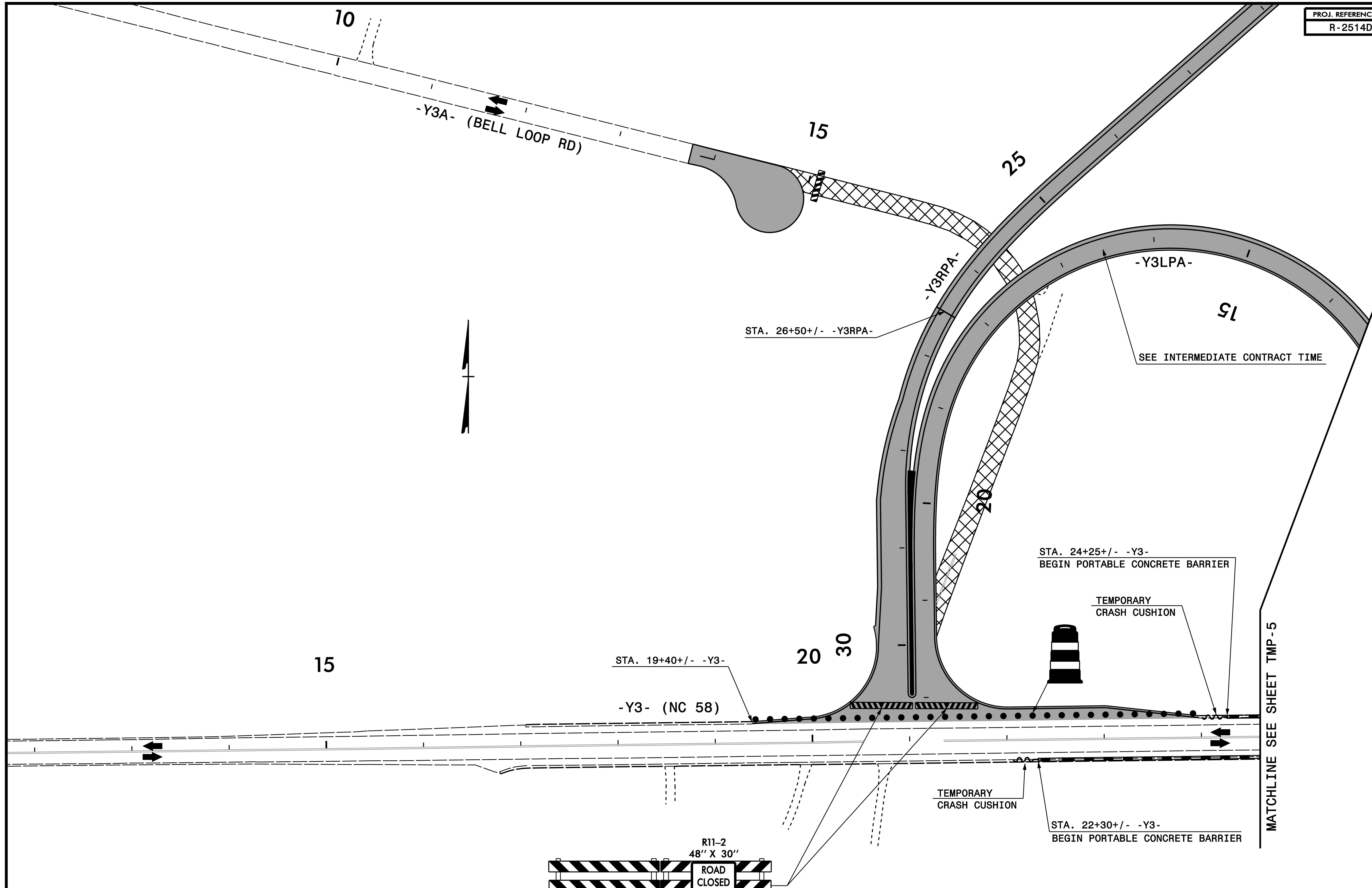
STEP 4: AWAY FROM TRAFFIC INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS IN THE FINAL PATTERN ON ALL ROADWAYS WITHIN THE PROJECT LIMITS.

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL ANY REMAINING TEMPORARY PAVEMENT MARKINGS ON -Y3- REQUIRED TO OPEN -Y3RPA- AND -Y3RPD- TO TRAFFIC.

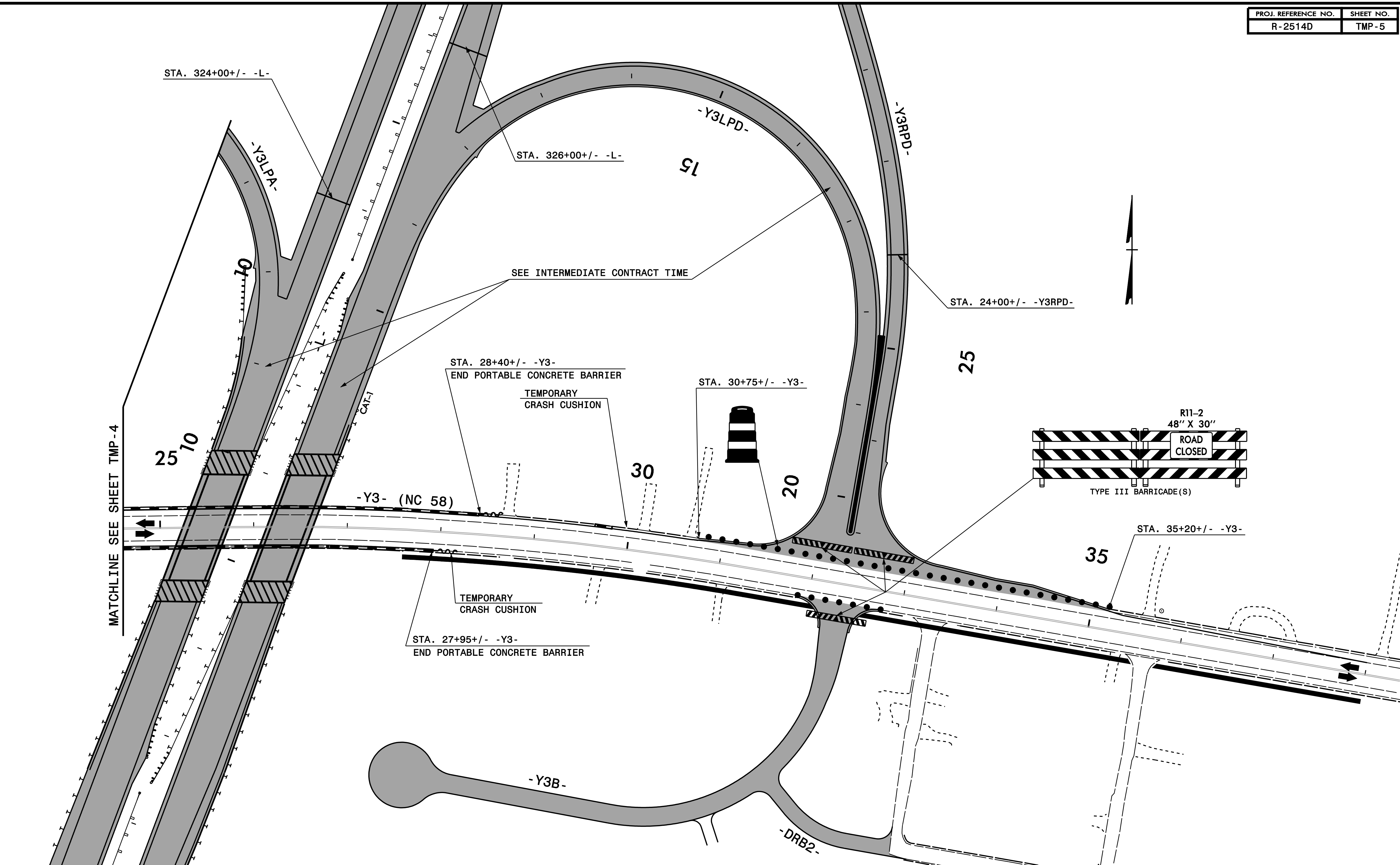
STEP 5: OPEN UP THE PROJECT TO THE FINAL TRAFFIC PATTERN.

STEP 6: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1 AND 3 OF 15, PLACE THE FINAL LAYER OF SURFACE COURSE, INSTALL THE FINAL PAVEMENT MARKINGS AND MARKERS AS SHOWN IN THE FINAL PAVEMENT MARKING PLANS AND REMOVE ALL TRAFFIC CONTROL DEVICES.

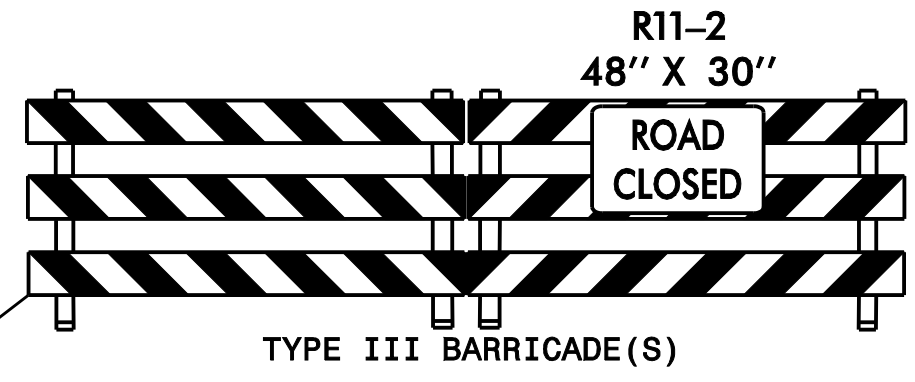
PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC.  ENGINEERS • CONSULTANTS	APPROVED:  DATE: 4/6/2015 SEAL 		TRANSPORTATION MANAGEMENT PLAN WRITTEN PHASING
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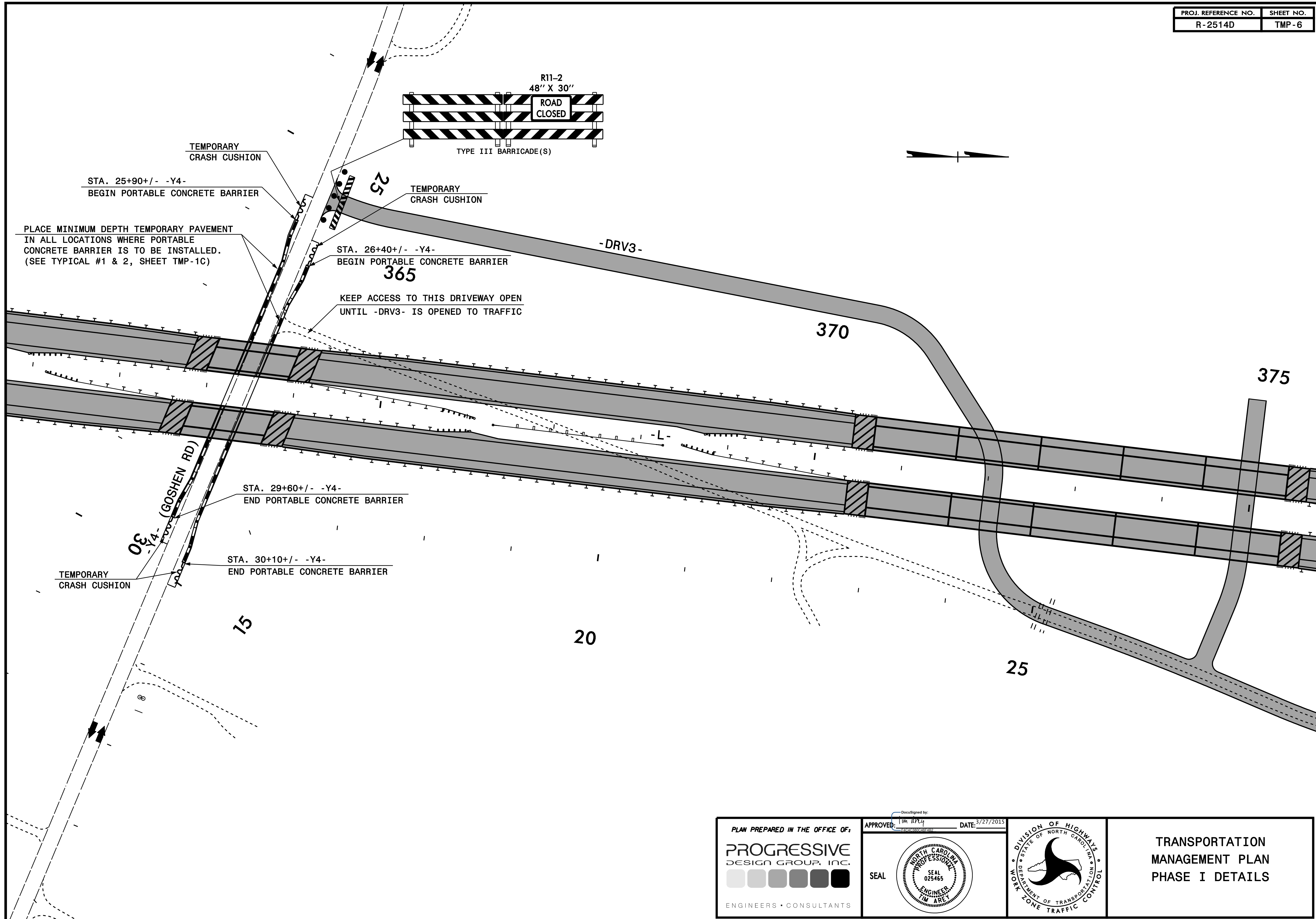
<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tim ARE</i> DATE: 3/27/2015</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS</p>
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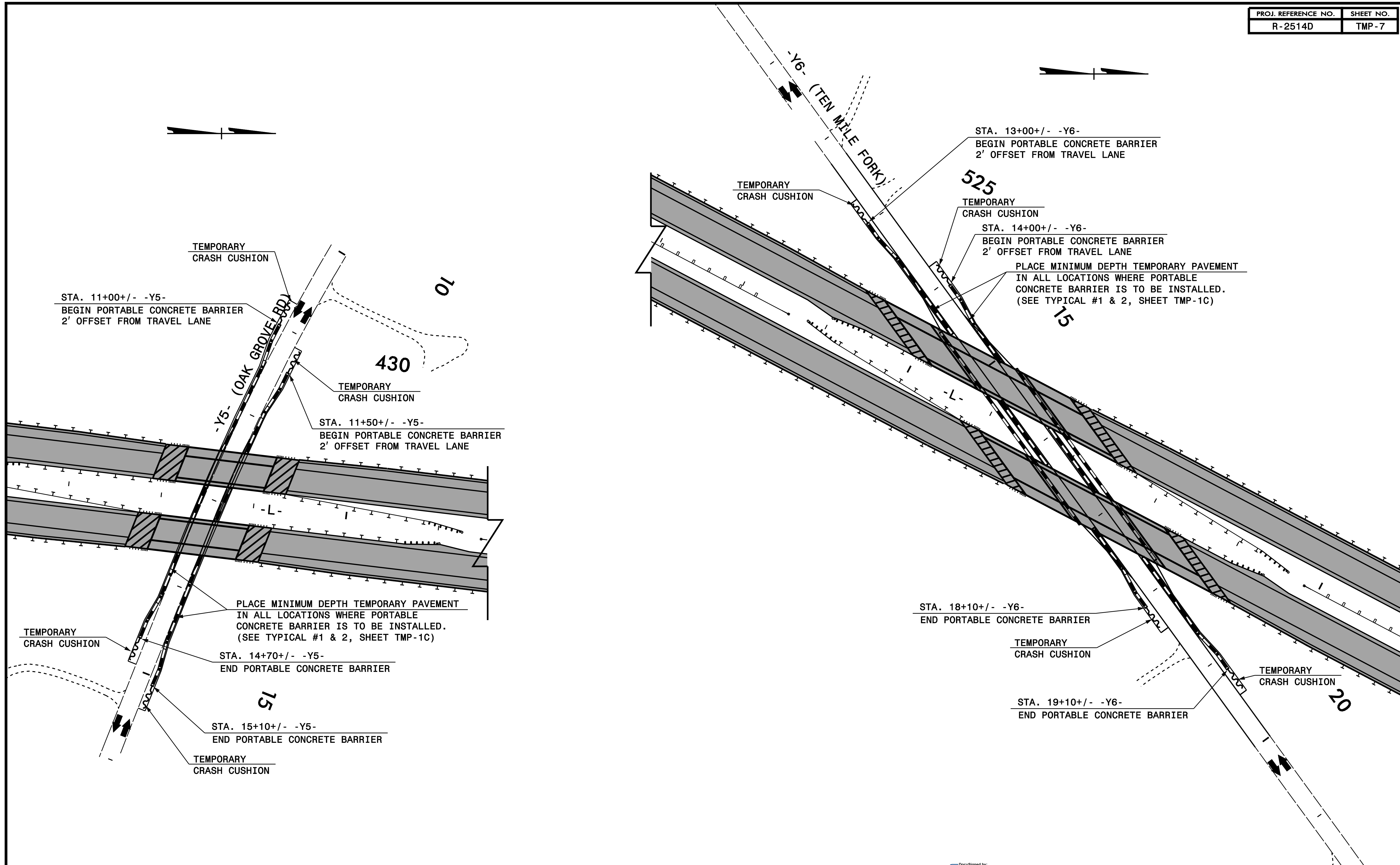
MATCHLINE SEE SHEET TMP-4



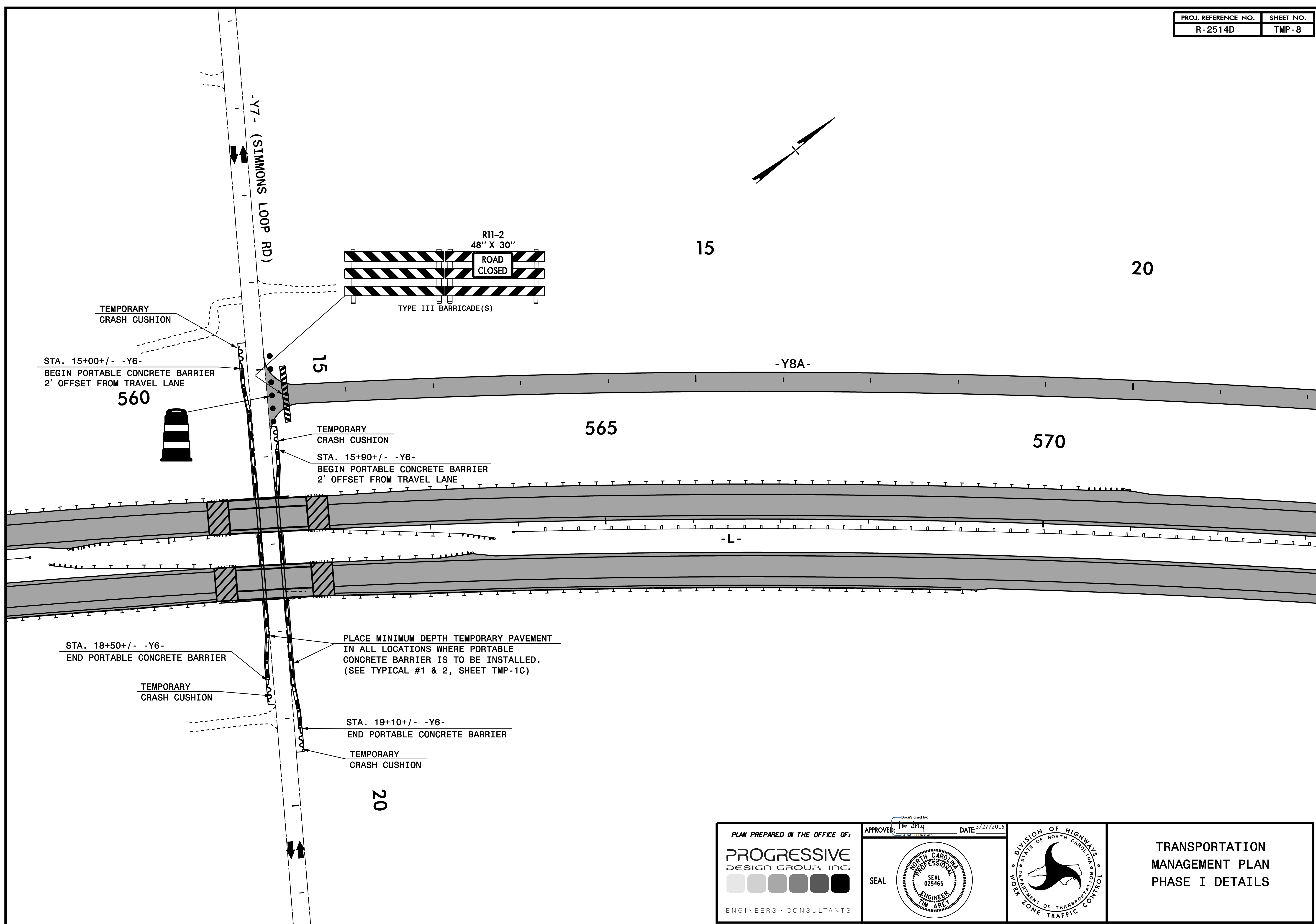
<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tim Apley</i> DATE: 3/27/2015</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS</p>
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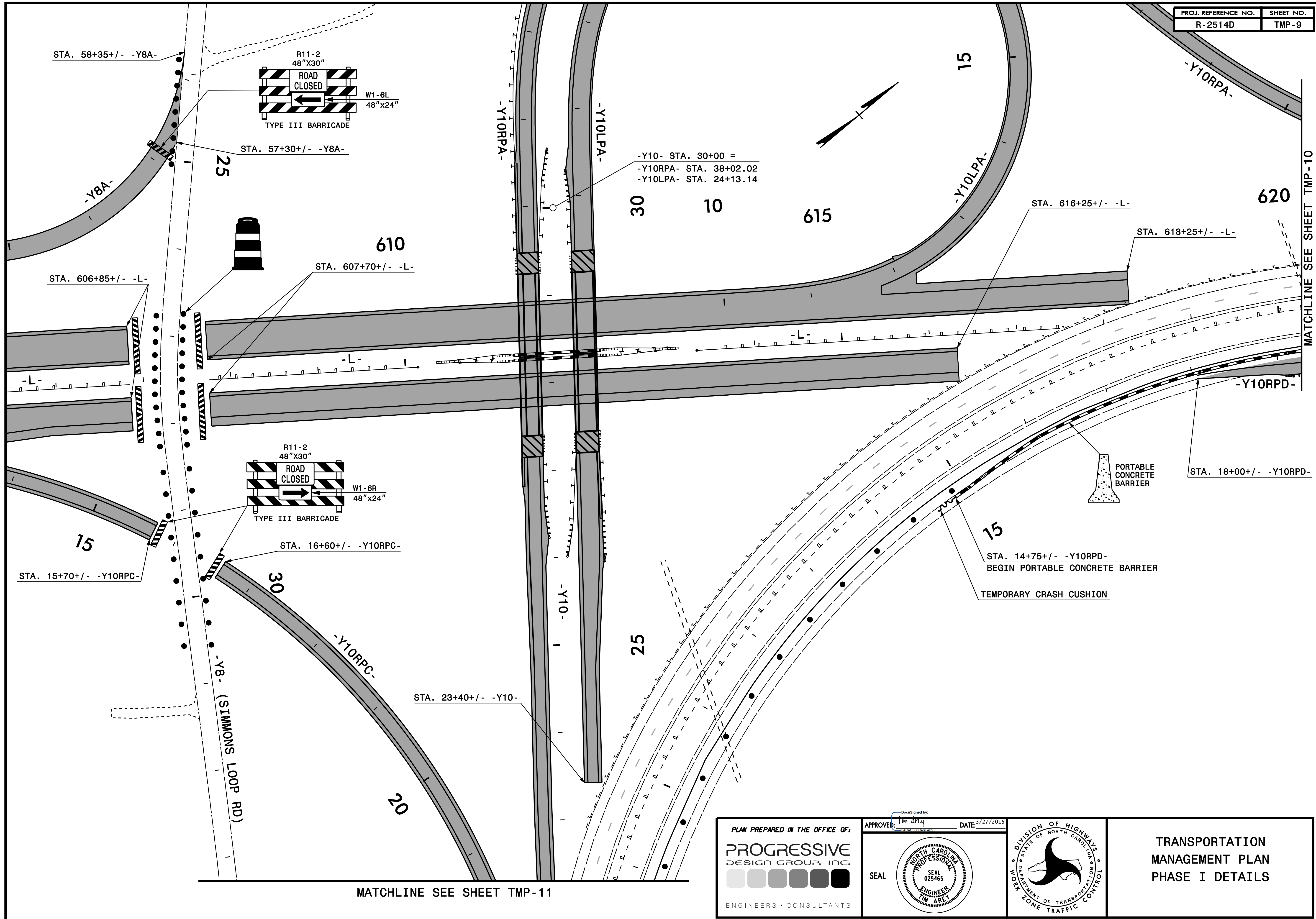
<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tim Apley</i> DATE: 3/27/2015</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS</p>
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<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tim Are</i> DATE: 3/27/2015</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS</p>
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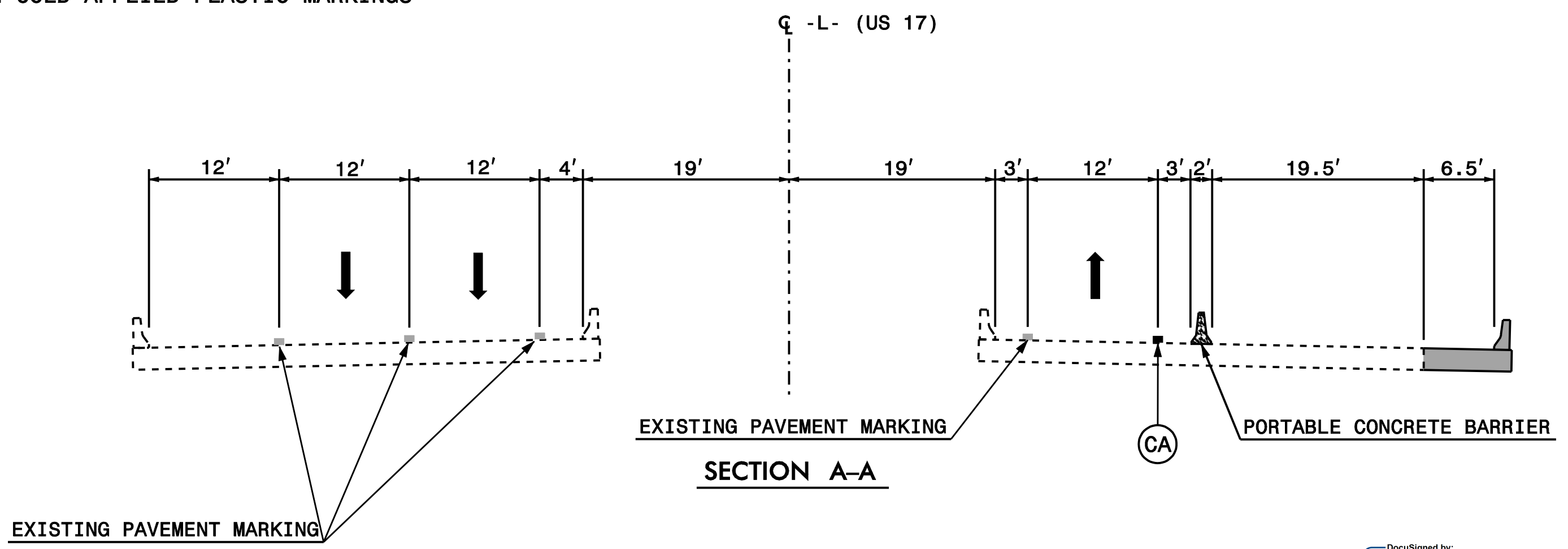
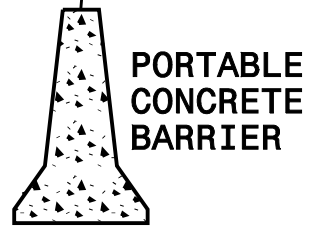
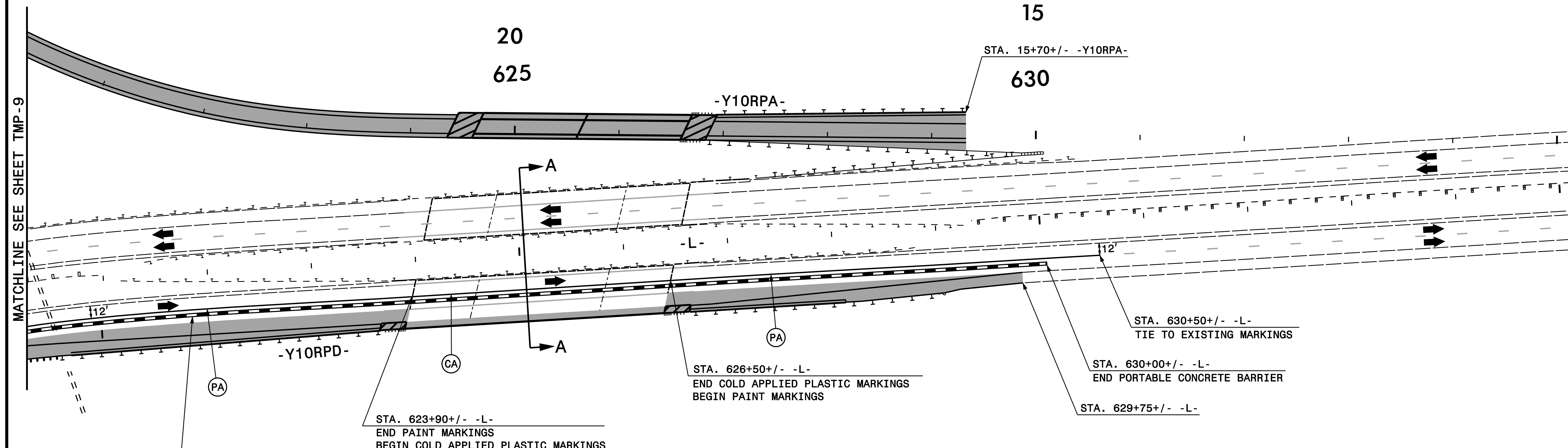
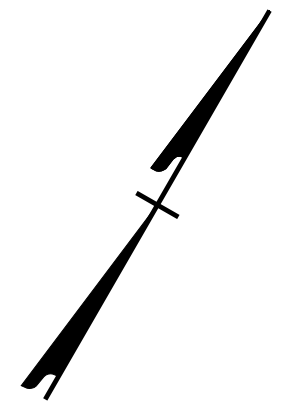
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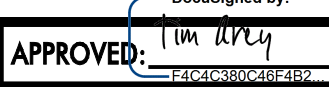

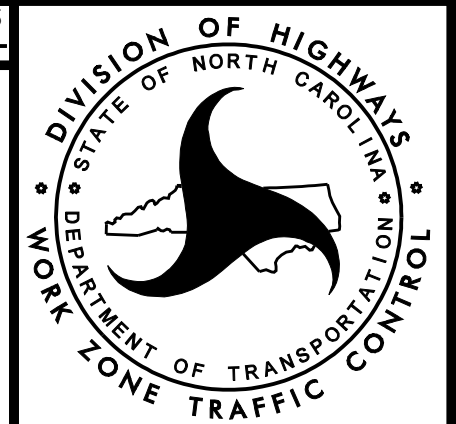


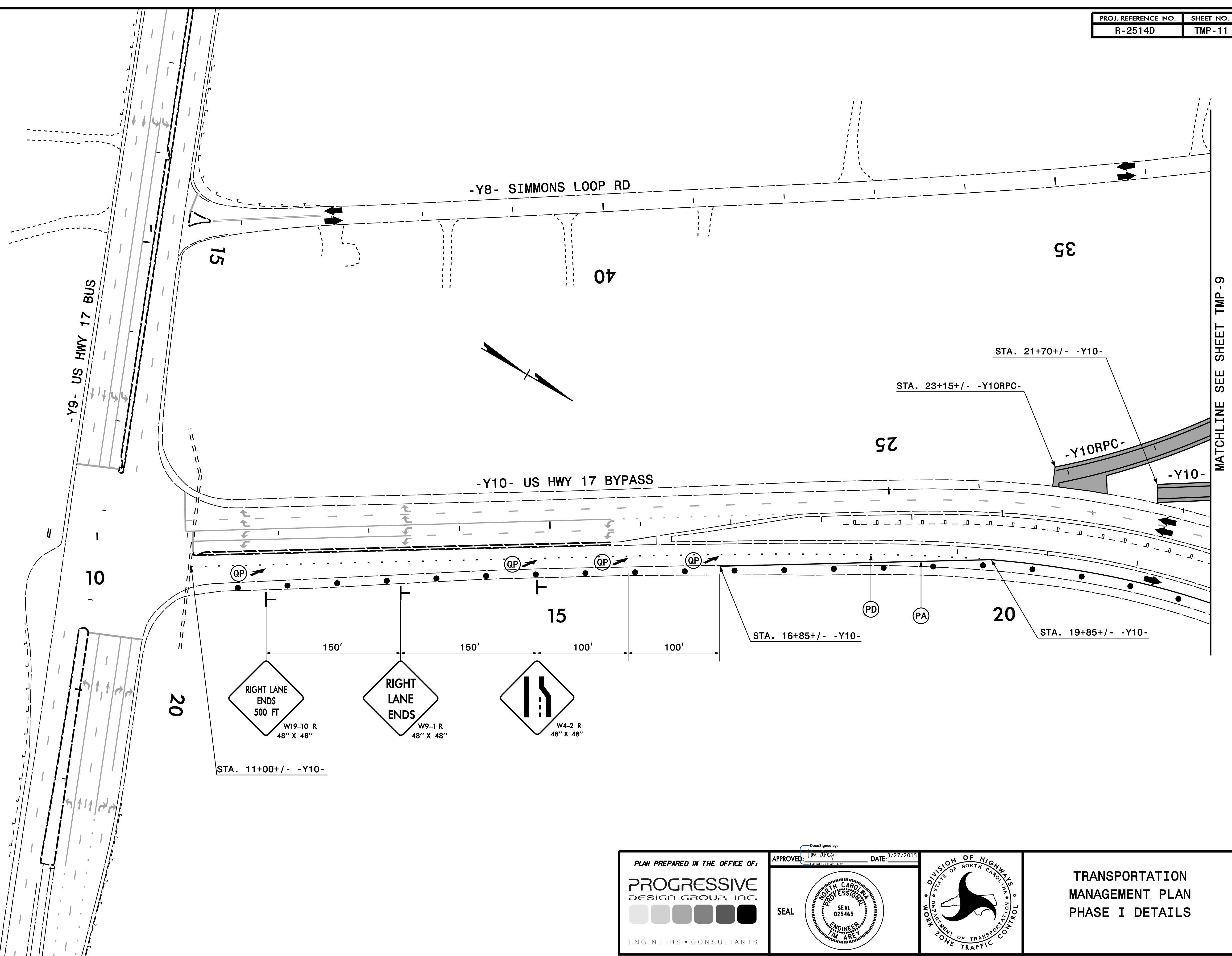
MATCHLINE SEE SHEET TMP-10

MATCHLINE SEE SHEET TMP-11

<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tim Apley</i> DATE: 3/27/2015</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS</p>
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PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC.  ENGINEERS • CONSULTANTS	APPROVED:  DATE: 3/27/2015			TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS
	SEAL			



MATCHLINE SEE SHEET TMP-9

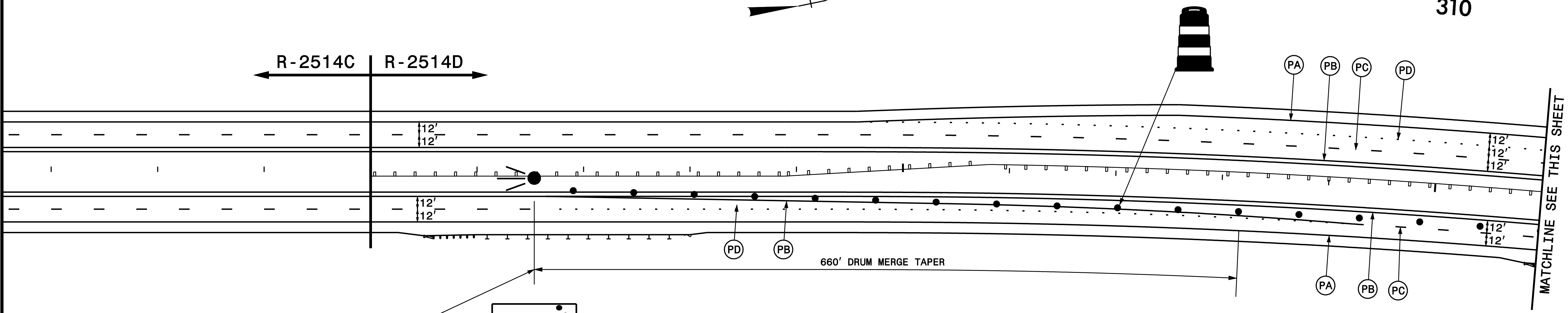
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300

305

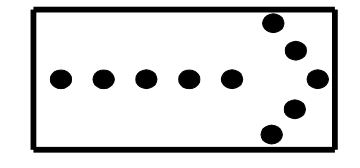
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R-2514C | R-2514D



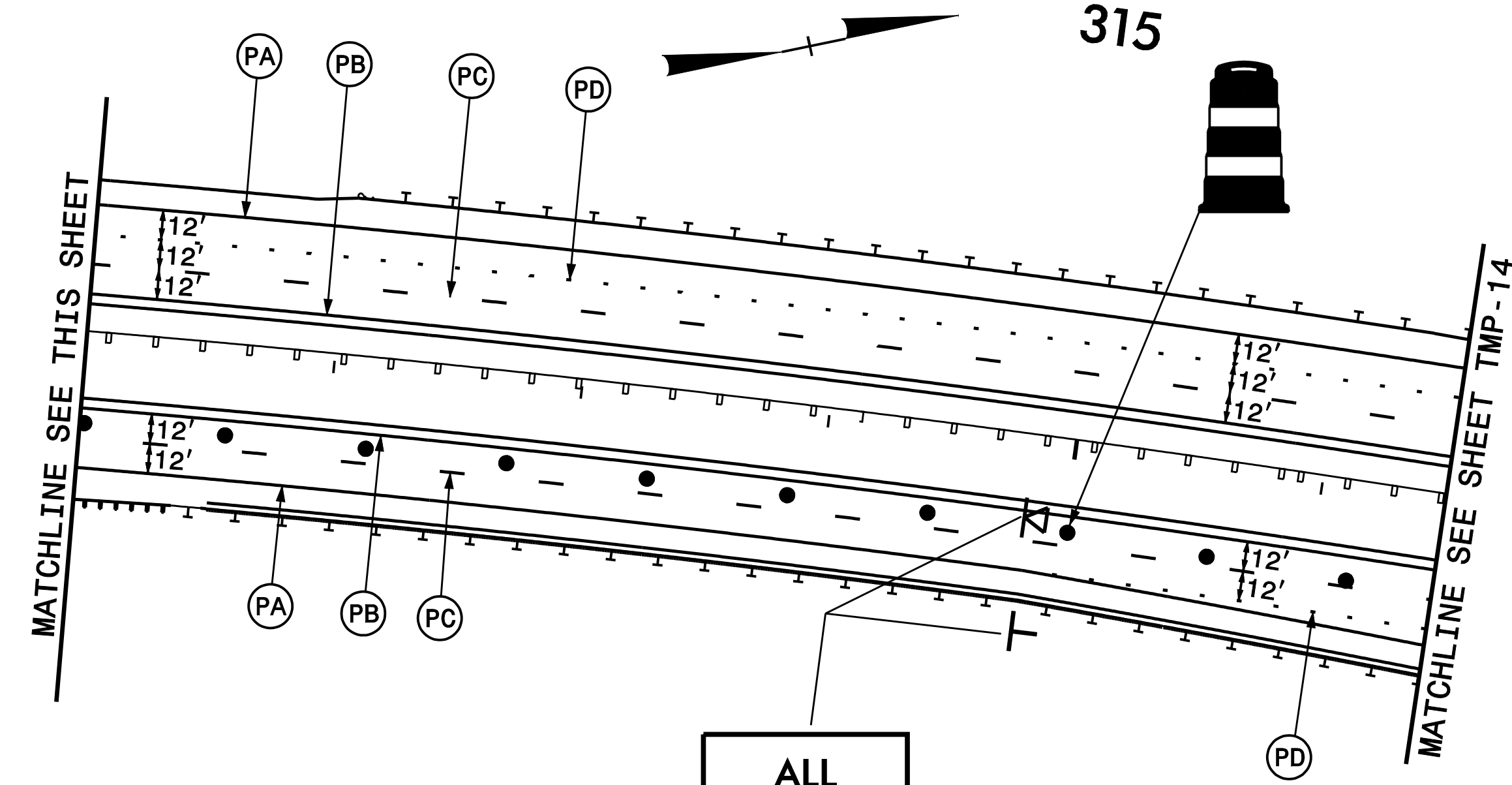
660' DRUM MERGE TAPER

SEE ROADWAY STANDARD DRAWING 1101.03, SHEET 7 OF 9 FOR ADDITIONAL DEVICES PRIOR TO THIS POINT



STA. 301+65 +/- -L-

315

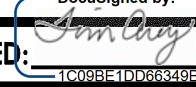
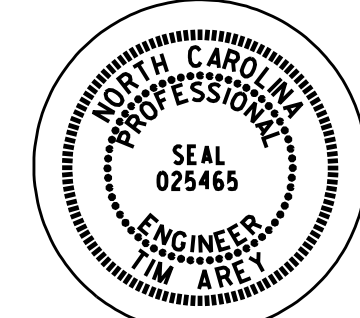
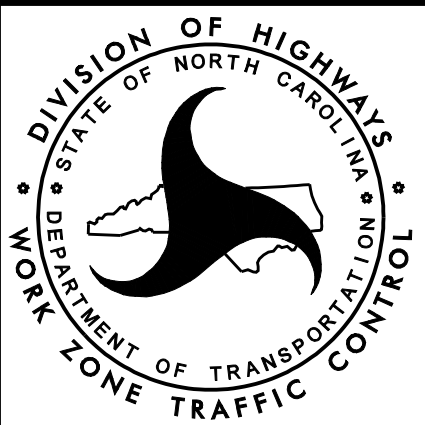


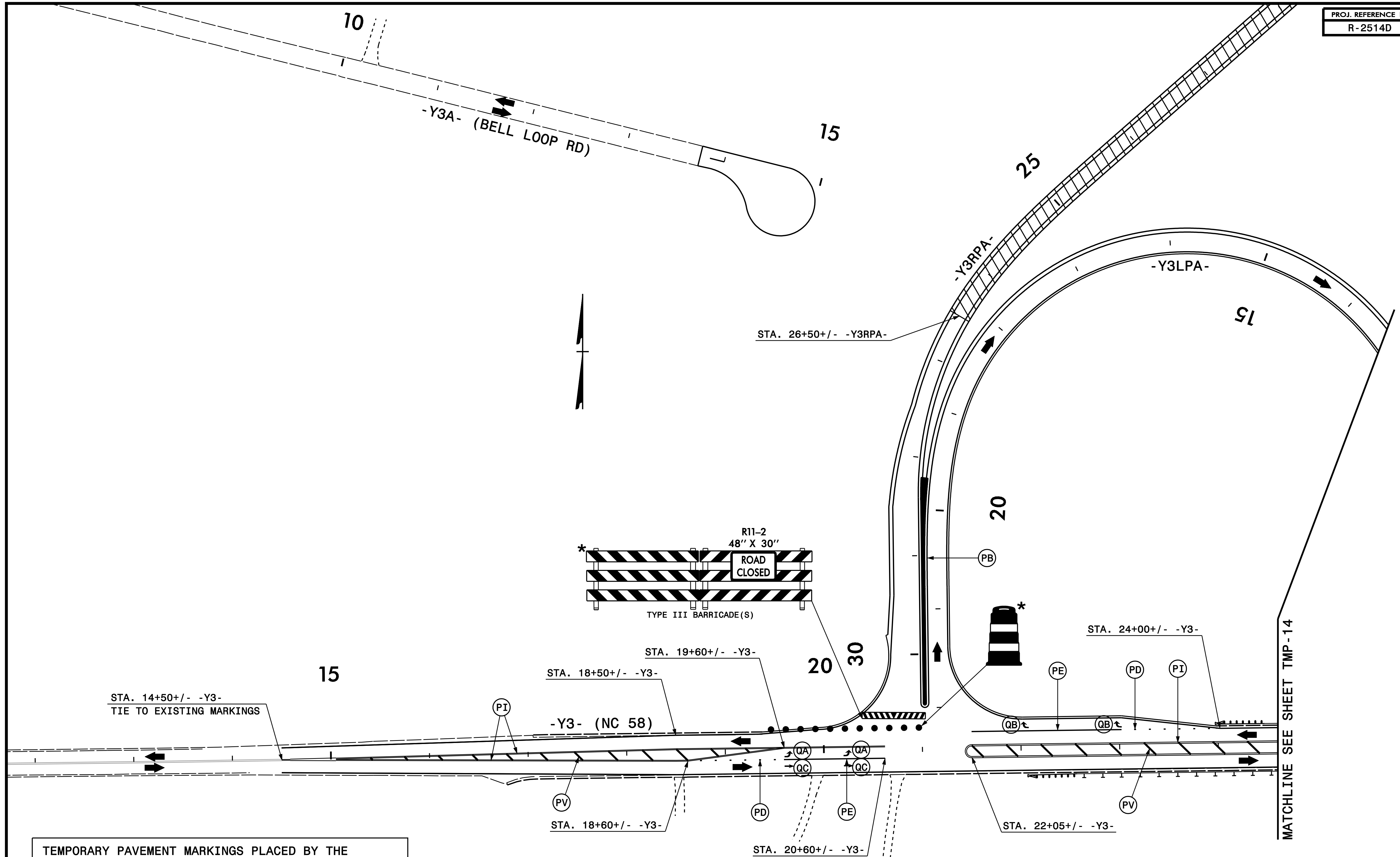
SP03355
48" X 48"

STA. 314+85 +/- -L-

TEMPORARY PAVEMENT MARKINGS PLACED BY THE RESPECTIVE CONTRACTOR. TRAFFIC CONTROL DEVICES (SIGNS, FLASHING ARROW PANELS, DRUMS, CHANGEABLE MESSAGE SIGNS) PLACED BY THE R-2514C CONTRACTOR EXCEPT AS NOTED WITH AN ASTERISK.

ALL PAVEMENT MARKINGS SHOWN ON THIS SHEET ARE NEW PAINT PAVEMENT MARKINGS INSTALLED IN THE FINAL PATTERN CONFIGURATION. SEE FINAL PAVEMENT MARKING PLANS FOR THESE DETAILS.

<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED:  DATE: 4/16/2015</p> <p>SEAL</p> 		<p>TRANSPORTATION MANAGEMENT PLAN PHASE II DETAILS</p>
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TEMPORARY PAVEMENT MARKINGS PLACED BY THE RESPECTIVE CONTRACTOR. TRAFFIC CONTROL DEVICES (SIGNS, FLASHING ARROW PANELS, DRUMS, CHANGEABLE MESSAGE SIGNS) PLACED BY THE R-2514C CONTRACTOR EXCEPT AS NOTED WITH AN ASTERISK.

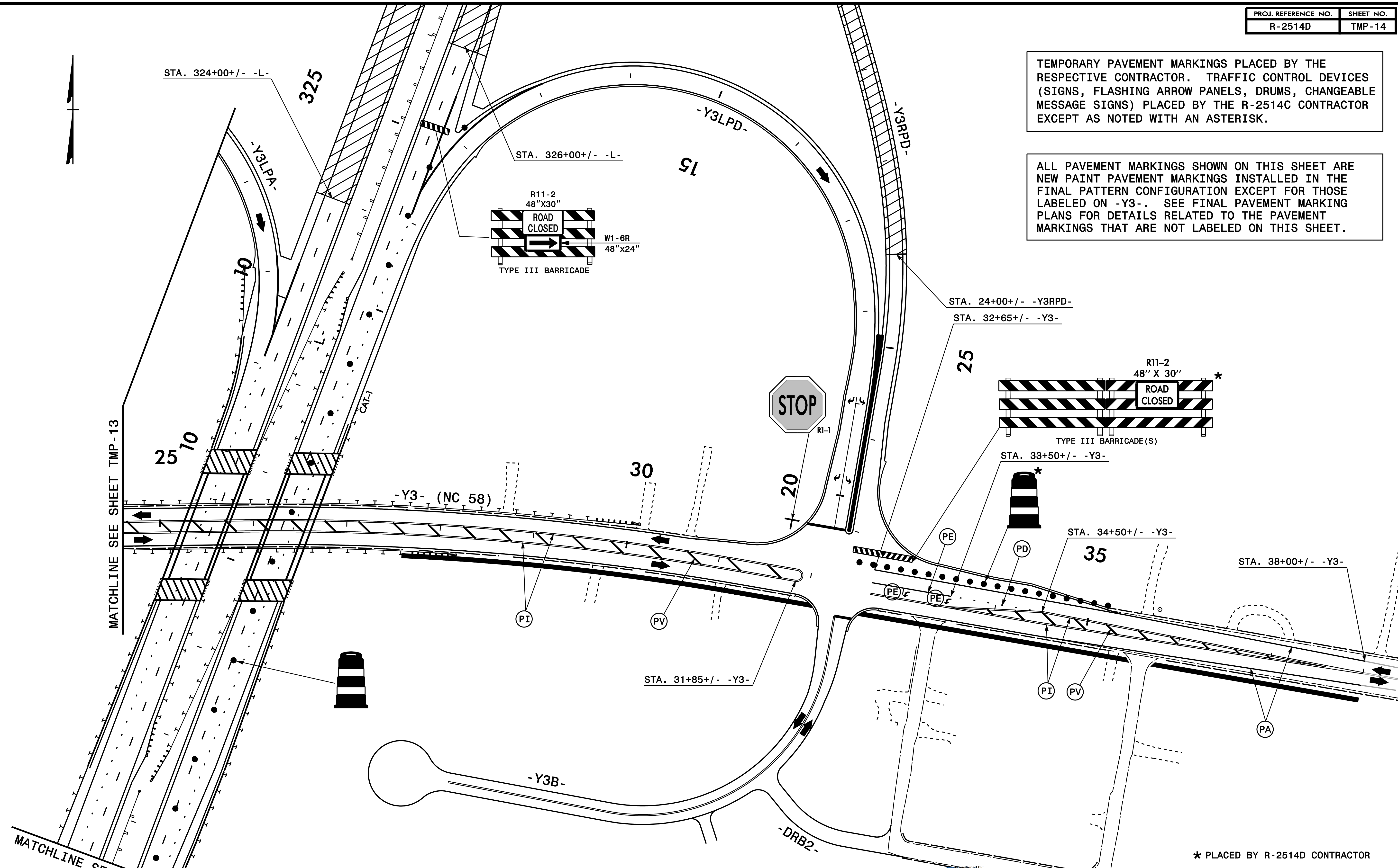
ALL PAVEMENT MARKINGS SHOWN ON THIS SHEET ARE NEW PAINT PAVEMENT MARKINGS INSTALLED IN THE FINAL PATTERN CONFIGURATION EXCEPT FOR THOSE LABELED ON -Y3-. SEE FINAL PAVEMENT MARKING PLANS FOR DETAILS RELATED TO THE PAVEMENT MARKINGS THAT ARE NOT LABELED ON THIS SHEET.

* PLACED BY R-2514D CONTRACTOR

PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: <i>Tim Apley</i> DATE: 3/27/2015	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	TRANSPORTATION MANAGEMENT PLAN PHASE II DETAILS
	SEAL:		

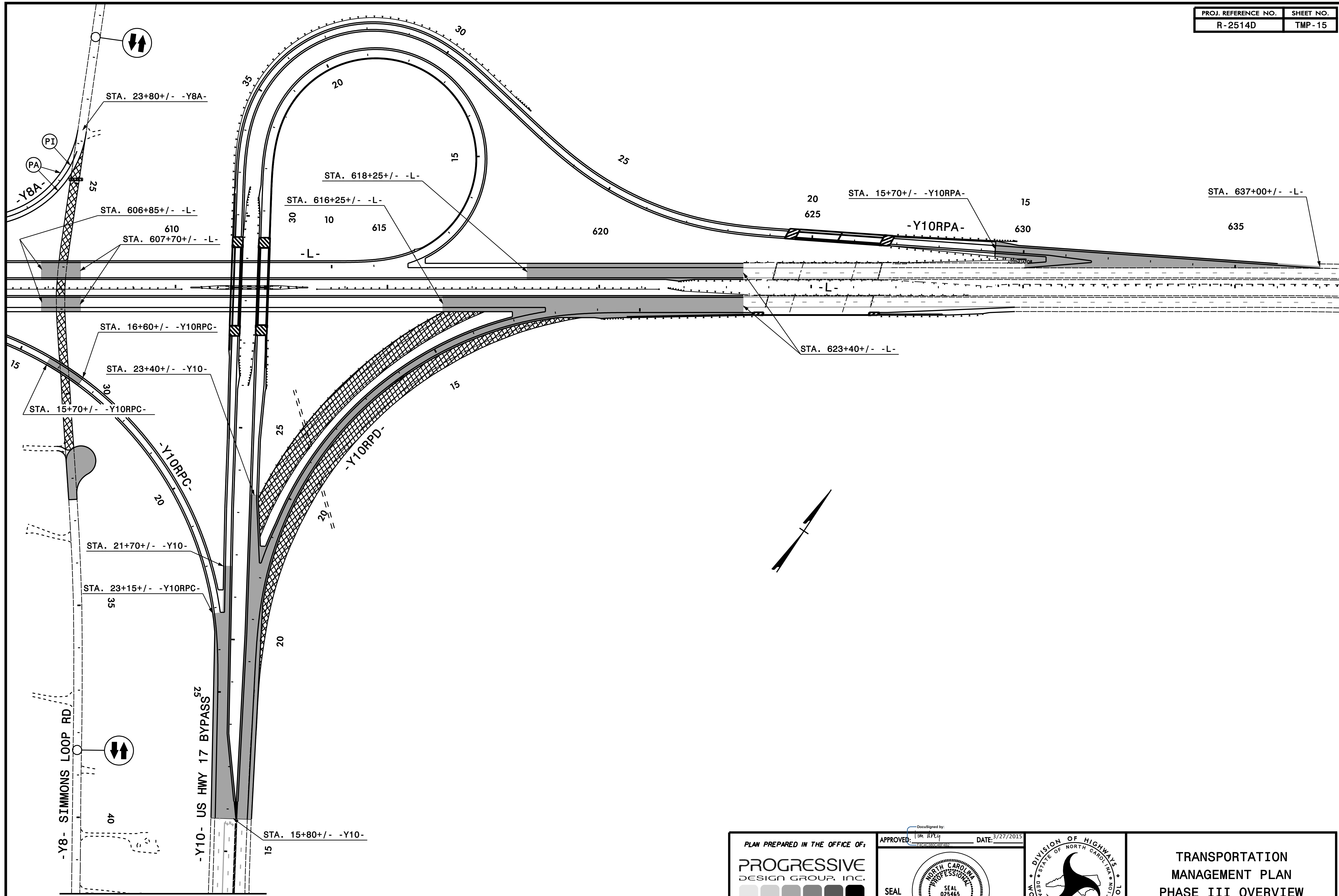
TEMPORARY PAVEMENT MARKINGS PLACED BY THE RESPECTIVE CONTRACTOR. TRAFFIC CONTROL DEVICES (SIGNS, FLASHING ARROW PANELS, DRUMS, CHANGEABLE MESSAGE SIGNS) PLACED BY THE R-2514C CONTRACTOR EXCEPT AS NOTED WITH AN ASTERISK.

ALL PAVEMENT MARKINGS SHOWN ON THIS SHEET ARE NEW PAINT PAVEMENT MARKINGS INSTALLED IN THE FINAL PATTERN CONFIGURATION EXCEPT FOR THOSE LABELED ON -Y3-. SEE FINAL PAVEMENT MARKING PLANS FOR DETAILS RELATED TO THE PAVEMENT MARKINGS THAT ARE NOT LABELED ON THIS SHEET.



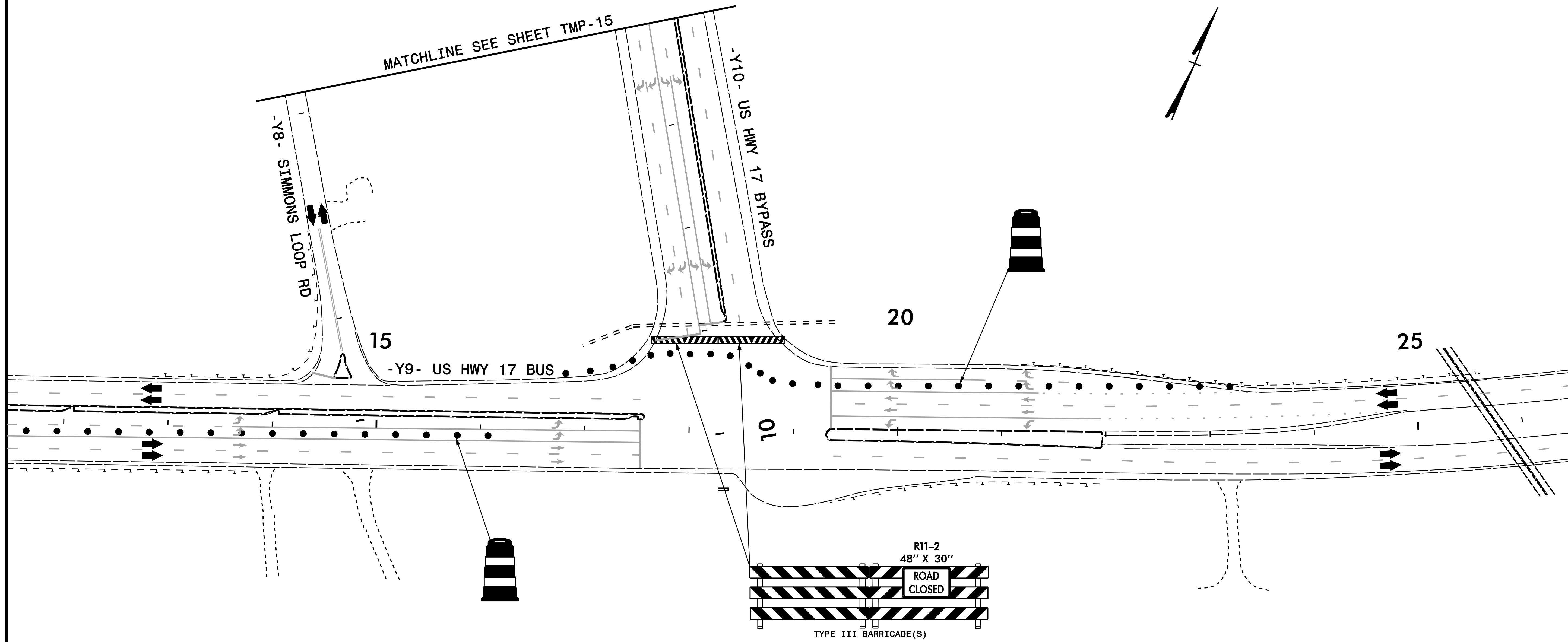
* PLACED BY R-2514D CONTRACTOR

<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tim Apley</i> DATE: 3/27/2015</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN</p> <p>PHASE II DETAILS</p>
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MATCHLINE SEE SHEET TMP-16

<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tim Are</i> DATE: 3/27/2015</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN PHASE III OVERVIEW</p>
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<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <u>Tim Apley</u> DATE: <u>3/27/2015</u></p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN PHASE III DETAIL</p>
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