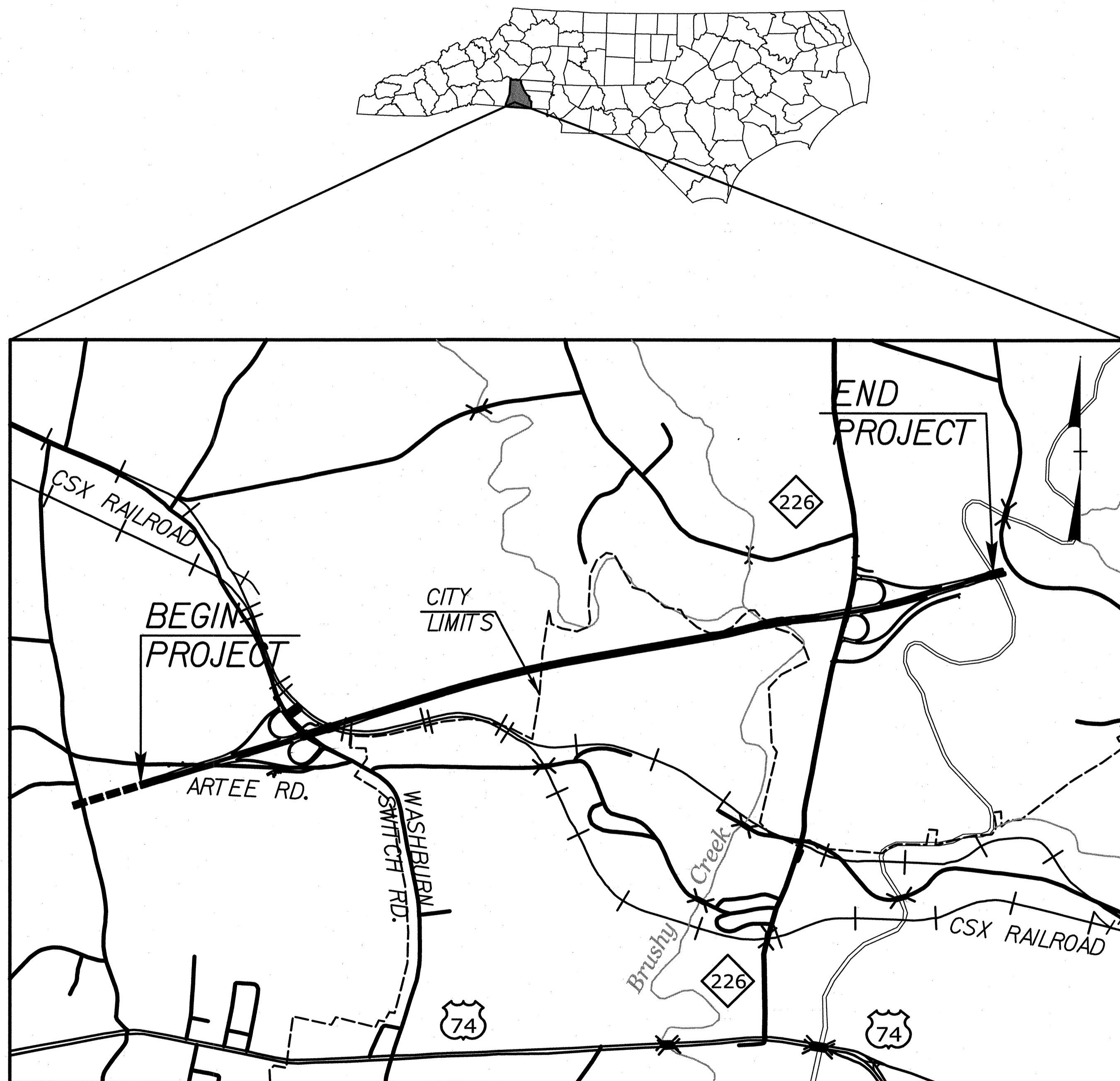


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

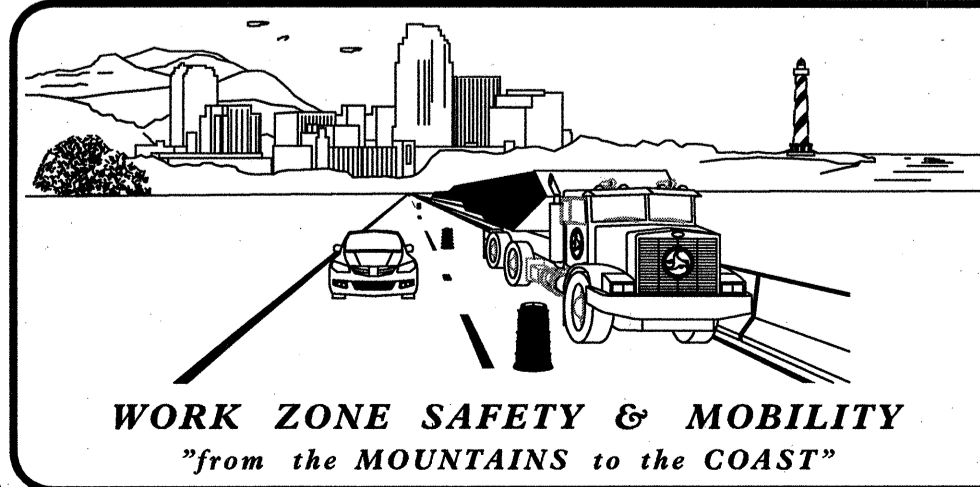
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SHEET NO.	TITLE
TMP-1	TITLE SHEET AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND TEMPORARY PAVEMENT MARKING
TMP-2	GENERAL NOTES AND LOCAL NOTES
TMP-02A	SPECIAL SIGN DESIGN
TMP-3 & TMP-3A	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	TEMPORARY TRAFFIC CONTROL OVERVIEW I
TMP-5 THRU 8	TEMPORARY TRAFFIC CONTROL AREA 1 PHASE I DETAILS
TMP-9 THRU 11	TEMPORARY TRAFFIC CONTROL AREA 2 PHASE I DETAILS
TMP-12	TEMPORARY TRAFFIC CONTROL OVERVIEW II
TMP-13 THRU 15	TEMPORARY TRAFFIC CONTROL AREA I PHASE II DETAILS
TMP-16 THRU 18	TEMPORARY TRAFFIC CONTROL AREA 2 PHASE II DETAILS
TMP-19	TEMPORARY TRAFFIC CONTROL OVERVIEW III
TMP-20 THRU 22	TEMPORARY TRAFFIC CONTROL AREA 2 PHASE III DETAILS

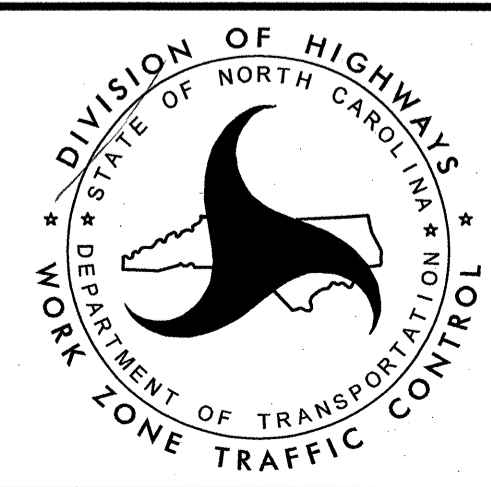
HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

R. B. EARLY, PE _____ TRAFFIC CONTROL PROJECT ENGINEER
R. B. EARLY, PE _____ TRAFFIC CONTROL PROJECT DESIGN ENGINEER
J. A. PHILLIPS _____ TRAFFIC CONTROL DESIGN ENGINEER



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
LAWRENCE GETTIER, P.E. _____ TRAFFIC CONTROL PROJECT ENGINEER
JAY W. WOOLARD, P.E. _____ TRAFFIC CONTROL PROJECT DESIGN ENGINEER
_____ TRAFFIC CONTROL DESIGN ENGINEER



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SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 023521
JAYONDA B. EARLY

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SHEET NO.
TMP-1

R-2707B

TIP PROJECT:

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 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
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
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.
- WORK AREA (AWAY FROM TRAFFIC)
- REMOVAL
- WORK AREA (USING LANE CLOSURES)
- ONGOING CONSTRUCTION
- TEMPORARY PAVEMENT

TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION	PAY ITEM
	PAVEMENT MARKING LINES	
PA	WHITE EDGELINE	PAINT (4")
PI	YELLOW DOUBLE CENTER LINE	
P2	WHITE STOP BAR	PAINT (24")

NOTE: FOR EACH PAINT PAVEMENT MARKING ITEM, REFER TO GENERAL NOTE (W) FOR NUMBER OF APPLICATIONS.

PAVEMENT MARKERS

MH	YELLOW & YELLOW	TEMPORARY RAISED
----	-----------------	------------------

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

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TRANSPORTATION
MANAGEMENT PLAN

ROADWAY STANDARD
DRAWINGS & LEGEND

PROJECT NOTES

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
C-1554

PROJ. REFERENCE NO. R-2707B	SHEET NO. TMP-2
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GENERAL NOTES

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

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

TIME RESTRICTIONS

A) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
SR 1313 (-Y7- / WASHBURN SWITCH RD) & NC 226 (-Y1- / POLKVILLE RD)	MONDAY-SUNDAY: 6:00AM-8:00PM	30 MINUTES FOR PLACING GIRDERS OVER -Y7-; 15 MINUTES FOR TRAFFIC SHIFTS

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

LANE CLOSURE REQUIREMENTS

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

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

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

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

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

H) DO NOT INSTALL MORE THAN 1/2 MILE OF LANE CLOSURE ON ANY ROAD, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

I) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ANY ROAD.

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

PAVEMENT EDGE DROP OFF REQUIREMENTS

K) 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.

L) 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

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

SIGNING

N) 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.

O) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.
AND
PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

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

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

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

R) 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 CONTROL DEVICES

S) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADIUS, AND 3 FT OFF THE EDGE OF AN OPENED 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.

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

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

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
1. -Y7- (SR 1313- / WASHBURN SWITCH RD), -Y1- (NC 226), & -Y1DET-	PAINT	TEMPORARY RAISED
2. -Y2- AND -Y17-	PAINT	NONE

W) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

X) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

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

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

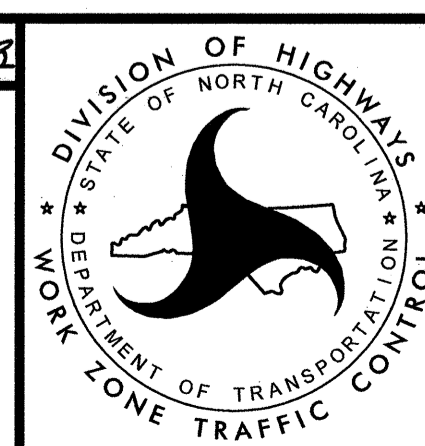
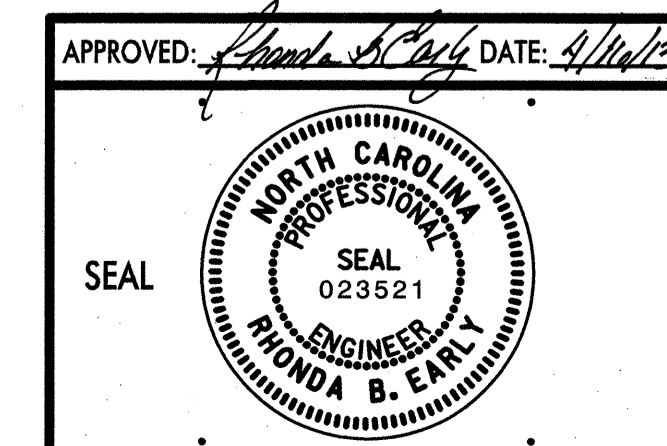
AA) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) (350 FT) AND (700 FT) RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

LOCAL NOTES

1. WHEN PERSONNEL AND/OR EQUIPMENT WILL BE WORKING WITHIN RAILROAD RIGHT-OF-WAY, COORDINATE WITH CSX RAILROAD.
2. FEATHER WEDGING BACK TO EXISTING PAVEMENT FOR A SMOOTH TIE. INCIDENTAL MILLING MAY BE REQUIRED.
3. COORDINATE CONSTRUCTION ACTIVITIES AND ACCESS WITH CHURCH.

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TRANSPORTATION
MANAGEMENT PLAN

PROJECT NOTES

SIGN NUMBER: SP-1 TYPE: D QUANTITY: 6 SIGN WIDTH: 4'-6" HEIGHT: 1'-0" TOTAL AREA: 4.5 Sq.Ft. BORDER TYPE: RECESSED RECESS: 0.375" WIDTH: 0.375" RADII: 1.5" NO. Z BARS: LENGTH:	BACKG COLOR: Orange COPY COLOR: Black <table border="1"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> MAT'L: 0.125" (3.2 mm) ALUMINUM	SYMBOL	X	Y	WID	HT																																																			DESIGN BY: TRT PROJECT ID: R-2707B CHECKED BY: CAJ DIV: 12 DATE: September 2011
SYMBOL	X	Y	WID	HT																																																					

BORDER
 R=1.5"
 TH=0.375"
 IN=0.375"

Spacing Factor is 1 unless specified otherwise

Letter positions													Series/Size
Letter spacings are to start of next letter													Text Length
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PHASING

NOTES:
 REPLACE MARKINGS AND RETURN TRAFFIC TO THE CURRENT TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

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

COMPLETE WEDGING AND WIDENING SIMULTANEOUSLY SO THAT CURRENT TRAFFIC PATTERNS, DROP-OFF REQUIREMENTS AND POSITIVE DRAINAGE ARE MAINTAINED. WHEN CONSTRUCTING WIDENING REQUIRING AGGREGATE BASE COURSE (ABC), WHERE THE TOP ELEVATION OF THE ABC IS ABOVE THE EXISTING PAVEMENT ELEVATION, WEDGING WILL HAVE TO BE STARTED PRIOR TO COMPLETING THE ABC.

PER THE ROADWAY PLAN -L- AND ALL RAMPS / LOOPS WILL BE GRADING ONLY. IN CONSTRUCTING PAVED ROADS, PAVE PROPOSED CONSTRUCTION UP TO BUT NOT INCLUDING FINAL LAYER UNTIL STATED TO INSTALL THE FINAL LAYER IN THE PHASING.

THE TERM "RSD" DENOTES ROADWAY STANDARD DRAWINGS.

AREA 1

PHASE I (SEE SHEETS TMP-4 THRU TMP-8)

STEP 1:
 INSTALL ADVANCED WORK ZONE WARNING SIGNS ON -Y2- (ARTEE ROAD) AND -Y7- (WASHBURN SWITCH ROAD) AS SHOWN ON RSD 1101.01 (SHEET 3 OF 3).

STEP 2:
 AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF THE FOLLOWING:
 * -L- STA 215+00+/- TO -L- STA 221+00+/- (EB & WB)
 * -L- STA 229+54+/- TO -L- STA 246+96+/- (WB)
 * -L- STA 232+00+/- TO -L- STA 246+96+/- (EB)
 * END BENT CONSTRUCTION AT SOUTH END OF BRIDGES OVER -Y7- (EB & WB)
 * -L- STA 251+00+/- TO -L- STA 345+00+/- (EB) (INCL. ENTIRE BRIDGE OVER CSX RAILROAD AND ENTIRE BRIDGE OVER BRUSHY CREEK.) (SEE LOCAL NOTE 1)
 * -L- STA 253+40+/- TO -L- STA 345+00+/- (WB) (INCL. END BENT AT NORTH END OF BRIDGE OVER CSX RAILROAD AND ENTIRE BRIDGE OVER BRUSHY CREEK.) (SEE LOCAL NOTE 1)
 * -RPC- STA 12+00+/- TO STA 19+00+/-
 * -RPC- STA 27+50+/- TO -Y7-
 * -RPB- (ALL)
 * -LPB- (ALL)
 * -LPC- (ALL)

WITHOUT DISTURBING TRAFFIC ON ARTEE RD, BEGIN DBL 10x10 RCBC AT -L- STA 222+00+/-.

USING RSD 1101.02 (SHEET 1 OF 15) AS NECESSARY, CONSTRUCT THE FOLLOWING:
 * -Y2- FROM STA 8+60+/- TO STA 16+00+/-
 * -DRIVE1- INCLUDING TEMPORARY TIE TO -Y7- (SEE LOCAL NOTES 1 & 3)
 * -Y7- (RT SIDE) FROM STA 19+00+/- TO STA 28+00+/-

USING RSD 1101.02 (SHEET 1 OF 15) AS NECESSARY, CONSTRUCT WEDGING AND WIDENING IN THE FOLLOWING LOCATIONS:
 * -Y7- (LT & RT) FROM STA 14+50+/- TO STA 19+00+/- (SEE LOCAL NOTE 2)
 * -Y7- (LT & RT) FROM STA 28+00+/- TO STA 35+00+/- (SEE LOCAL NOTE 2)

INSTALL AND COVER DETOUR SIGNS AS SHOWN ON TMP-8.

COMPLETE THE WORK IN PHASE I, STEPS 3 AND 4 IN SEVEN (7) CONSECUTIVE DAYS. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 3:
 UNCOVER DETOUR SIGNS AND USE RSD 1101.03 (SHEETS 1 & 2 OF 9) TO CLOSE ARTEE ROAD TO TRAFFIC EAST OF METROLINA DR TO WEST OF -Y7- (WASHBURN SWITCH RD). CONSTRUCT TIE-IN OF -Y2- FROM STA 16+00+/- TO STA 20+06+/-.

STEP 4:
 PLACE TEMPORARY MARKINGS ON -Y2-. RELOCATE TYPE III BARRICADES CLOSING ARTEE RD AS SHOWN ON SHEETS TMP-13 & TMP-15 AT -DRIVE3-, METROLINA DR. AND -Y7- AND OPEN ARTEE RD TO FINAL PATTERN.

STEP 5:
 AWAY FROM TRAFFIC COMPLETE PROPOSED CULVERT, AND BEGIN CONSTRUCTION OF -L- FROM STA 221+00+/- TO STA 223+00+/- (PROVIDE TEMPORARY ACCESS TO PROPERTY SERVICED BY -DRIVE3- AT ALL TIMES.)

STEP 6:
 COMPLETE CONSTRUCTION OF END BENT CONSTRUCTION AT SOUTH END OF BRIDGES OVER -Y7- (EB & WB) BEGUN IN PHASE I, STEP 2.

STEP 7:
 PLACE TEMPORARY MARKING & MARKERS ON RIGHT SIDE OF -Y7- IN A TWO-LANE/TWO-WAY PATTERN AND SHIFT -Y7- TO THE NEW ALIGNMENT. (SEE SHEETS TMP-14 & TMP-15.)

AREA 1 (CONTINUED)

PHASE II (SEE SHEETS TMP-12 THRU TMP-15)

STEP 1:
 AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF THE FOLLOWING:
 * -L- STA 221+00+/- TO -L- STA 232+00+/- (EB)
 * -L- STA 221+00+/- TO -L- STA 229+54+/- (WB)
 * -L- STA 246+96+/- TO -L- STA 251+00+/- (EB) (INCLUDING REMAINDER OF BRIDGE OVER -Y7-) (SEE GENERAL NOTE C FOR RESTRICTIONS ON STOPPING TRAFFIC ON -Y7- FOR PLACING GIRDERS)
 * -L- STA 246+96 +/- TO -L- STA 253+40 +/- (WB) (INCLUDING REMAINDER OF BRIDGES OVER -Y7- AND CSX RAILROAD) (SEE GENERAL NOTE C FOR RESTRICTIONS ON STOPPING TRAFFIC ON -Y7- FOR PLACING GIRDERS) (SEE LOCAL NOTE 1)
 * -RPC- STA 19+00+/- TO -RPC- STA 27+50+/-

USING RSD 1101.02 (SHEET 1 OF 15) AS NECESSARY, CONSTRUCT -DRIVE3-.

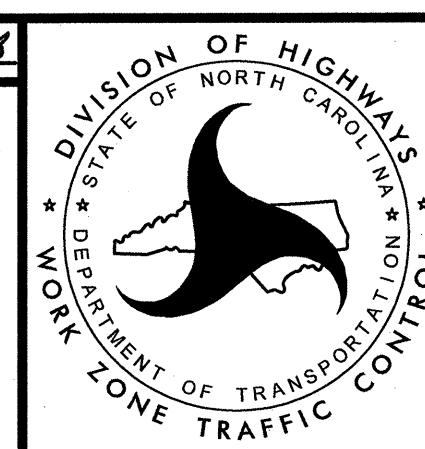
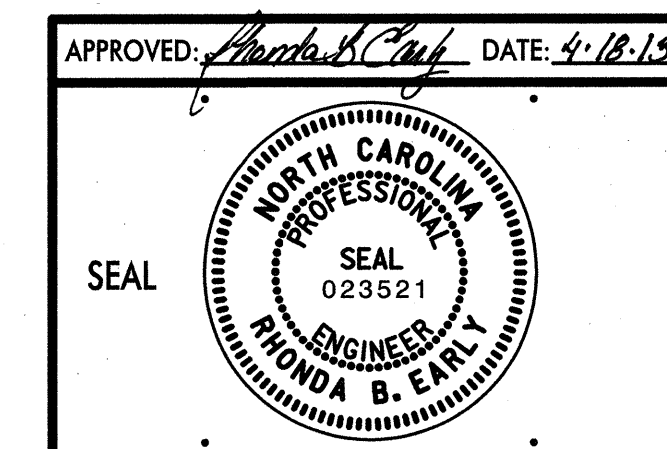
USING RSD 1101.02 (SHEET 1 OF 15) AS NECESSARY, BEGIN CONSTRUCTION OF REMAINDER OF -Y7- FROM STA 19+00+/- TO STA 28+50+/-, CONSTRUCT FINAL TIE-IN FOR -DRIVE1- AND REMOVE ABANDONED PAVEMENT. (SEE LOCAL NOTE 3)

STEP 2:
 USING RSD 1101.02 (SHEET 1 OF 15) AS NECESSARY, COMPLETE CONSTRUCTION OF -Y7-. PLACE TEMPORARY MARKINGS AND MARKERS IN THE FINAL PATTERN ON -Y7- AND OPEN ALL LANES TO TRAFFIC. (SEE FINAL PAVEMENT MARKING PLANS.)

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TRANSPORTATION
 MANAGEMENT PLAN

PHASING

PHASING

AREA 2

PHASE I (SEE SHEETS TMP-4 AND TMP-9 THRU TMP-11)

STEP 1:
 INSTALL ADVANCED WORK ZONE WARNING SIGNS ON -Y1- (NC 226) & CHATFIELD RD AS SHOWN ON RSD 1101.01 (SHEET 3 OF 3).

STEP 2:
 AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF THE FOLLOWING:

- * -L- STA 345+00+/- TO -L- STA 353+23+/- (EB & WB)
- * -L- STA 357+29+/- TO -L- STA 334+00+/- (EB)
- * -L- STA 358+17+/- TO -L- STA 384+00+/- (WB)
- * -RPA1- STA 0+00 TO STA 19+68+/-
- * -RPD1- STA 0+00 TO STA 22+69+/-
- * -LPA1- STA 0+00 TO STA 9+89+/-
- * -LPD1- STA 2+27+/- TO STA 10+57+/-

USING RSD 1101.02 (SHEET 1 OF 15) AS NECESSARY, CONSTRUCT THE FOLLOWING:

- * -Y17- FROM -Y1- TO STA 38+46+/-
- * -DRIVE2-
- * -Y1DET- FROM STA 12+00+/- TO STA 29+70+/-

STEP 3:
 USING RSD 1101.02 (SHEET 1 OF 15), CONSTRUCT THE FOLLOWING:

- * -Y1DET- FROM -Y1DET- STA 10+00+/- TO STA 12+00+/- (WEDGE EXISTING TO THE WIDTH OF PROPOSED -Y1- AND ELEVATION OF PROPOSED -Y1DET- GRADE)
- * TEMPORARY TRANSITION GRADE (APPROX. 0.77%) FROM -Y1DET- TO EXISTING FROM -Y1- STA 20+00+/- TO STA 24+00+/-

STEP 4:
 USING RSD 1101.02 (SHEET 1 OF 15) AS NEEDED, PLACE TEMPORARY PAVEMENT MARKING ON -Y1DET- AS SHOWN ON SHEETS TMP-16 THRU TMP-18 AND USING RSD 1101.03 (SHEET 3 OF 9) SHIFT TRAFFIC TO DETOUR.

PLACE TEMPORARY PAVEMENT MARKING ON -Y17- AND OPEN TO TRAFFIC.

PHASE II (SEE SHEETS TMP-12 AND TMP-16 THRU TMP-18)

STEP 1:
 AWAY FROM TRAFFIC, CONSTRUCT -Y1- FROM STA 23+00+/- TO STA 33+50+/- INCLUDING BRIDGE OVER -L-. (SEE SHEET TMP-17.)

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF -L- FROM STA 353+23+/- TO STA 355+70+/- (EB) AND -L- FROM STA 353+23+/- TO STA 356+00+/- (WB).

STEP 2:
 USING RSD 1101.02 (SHEET 1 OF 15), CONSTRUCT THE FOLLOWING:

- * -Y1- FROM STA 11+90+/- TO STA 17+71+/-
- * -Y1- (RT SIDE) FROM STA 17+70+/- TO STA 23+00+/-
- * -Y1- FROM STA 32+50+/- TO STA 42+40+/- INCLUDING TIE TO -Y17-

STEP 3:
 PLACE TEMPORARY PAVEMENT MARKING ON -Y1- AS SHOWN IN PHASE III (SEE SHEETS TMP-20 THRU TMP-22) AND SHIFT TRAFFIC TO -Y1-.

AREA 1 & AREA 2 (COMBINED)

PHASE III (SEE SHEETS TMP-19 THRU TMP-22)

STEP 1:
 AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE FOLLOWING:

- * -L- FROM STA 355+70+/- TO STA 357+29+/- (EB)
- * -L- FROM STA 356+00+/- TO STA 358+17+/- (WB)
- * -LPD1- FROM STA 0+00+/- TO 2+27+/-

USING RSD 1101.02 (SHEET 1 OF 15) AS NEEDED, BEGIN CONSTRUCTION OF THE FOLLOWING:

- * -RPA1- FROM STA 19+68+/- TO -Y1-
- * -RPD1- FROM STA 22+69+/- TO -Y1-
- * -LPA1- FROM STA 9+89+/- TO -Y1-
- * -LPD1- FROM STA 10+57+/- TO -Y1-
- * REMOVE -Y1DET-

STEP 2:
 AWAY FROM TRAFFIC, COMPLETE ALL WORK ON -L- INCLUDING BRIDGES OVER -Y7-, CSX RAILROAD, AND BRUSHY CREEK. (SEE LOCAL NOTE 1 FOR WORK AROUND CSX RAILROAD AND GENERAL NOTE C FOR STOPPING TRAFFIC ON -Y7-.)

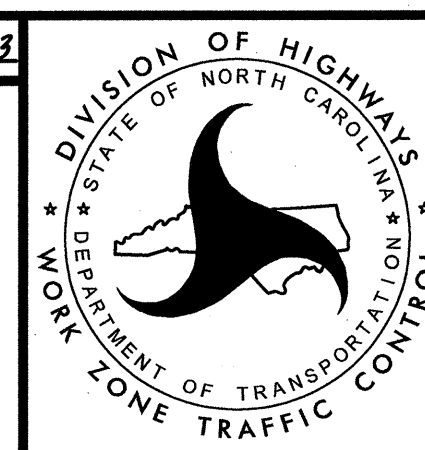
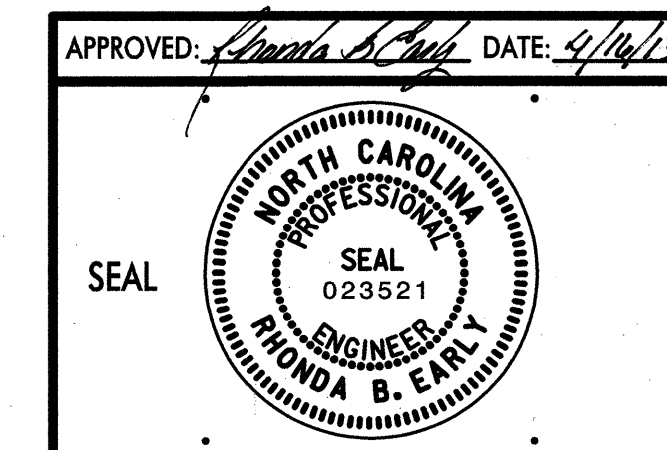
USING RSD 1101.02 (SHEET 1 OF 15) AS NEEDED, COMPLETE PROPOSED CONSTRUCTION / GRADING INCLUDING MONOLITHIC ISLANDS (ON PAVED ROADS). PLACE FINAL LAYER OF SURFACE COURSE, MARKINGS AND MARKERS IN THE FINAL PATTERN AND OPEN ALL LANES TO TRAFFIC. (SEE FINAL PAVEMENT MARKING PLANS.)

STEP 3:
 REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES EXCEPT TYPE III BARRICADES DESIGNATED TO REMAIN ON PROJECT (BLOCKING ACCESS TO GRADED / UNPAVED AREAS).

REVISIONS

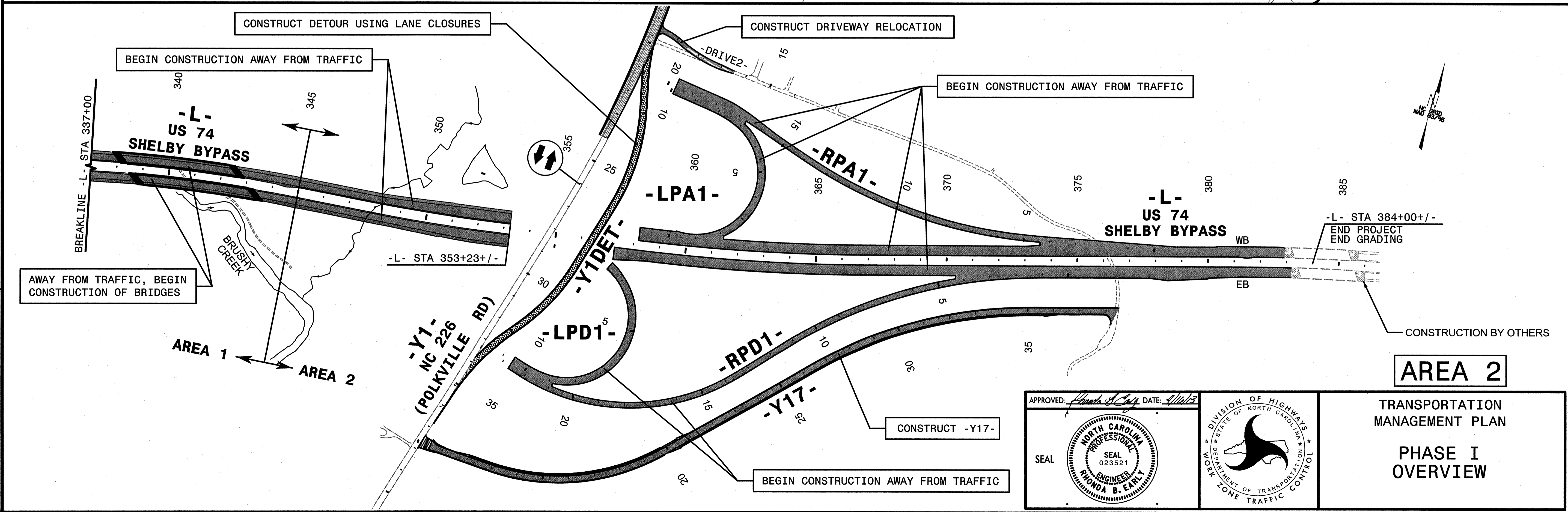
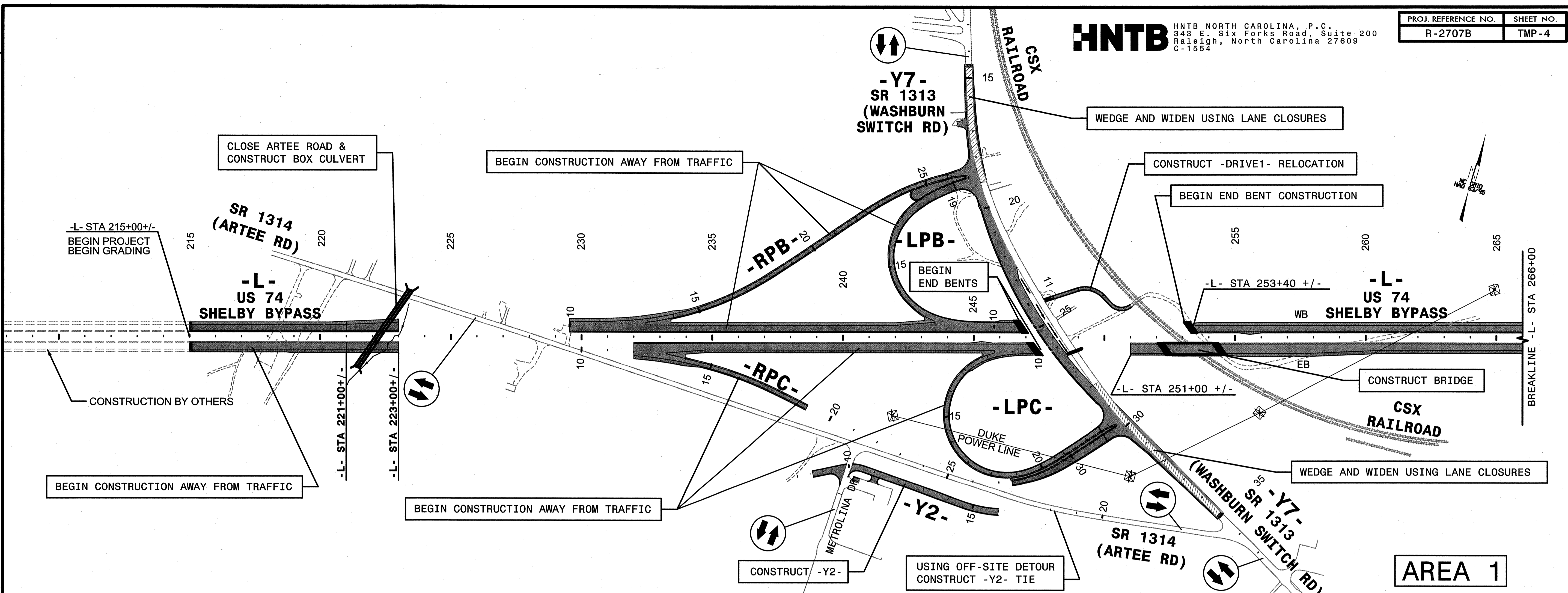
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TRANSPORTATION
 MANAGEMENT PLAN

PHASING



REVISIONS

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NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 023521
 RYONDA B. EARLY



TRANSPORTATION MANAGEMENT PLAN

PHASE I OVERVIEW

HNTB

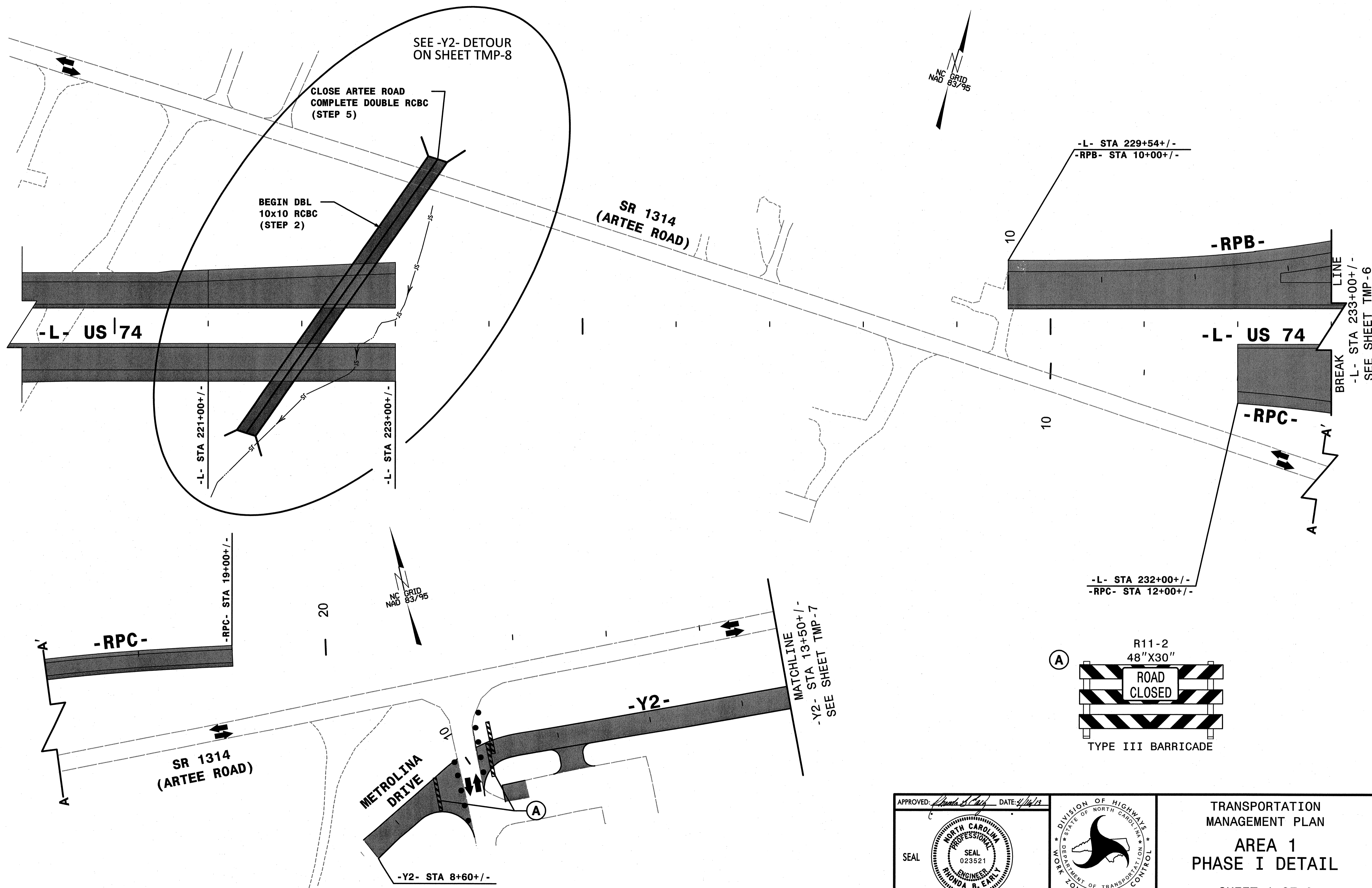
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343 E. Six Forks Road, Suite 200
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PROJ. REFERENCE NO.	SHEET NO.
R-2707B	TMP-5

220

225

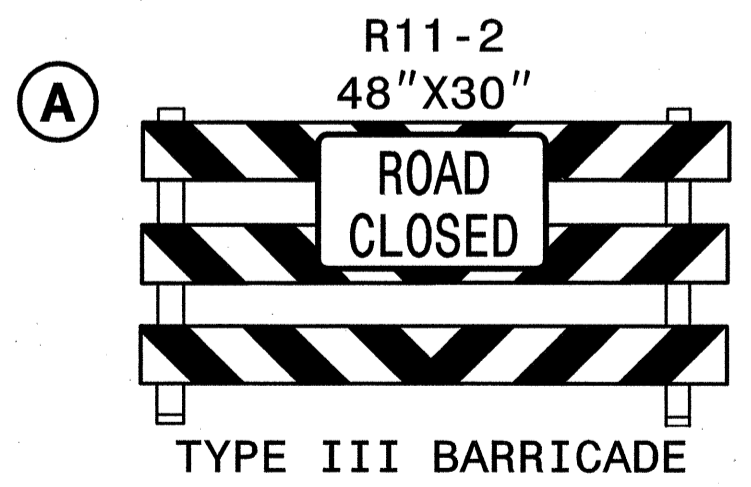
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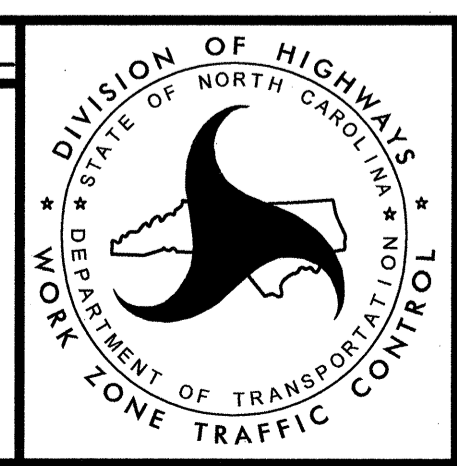
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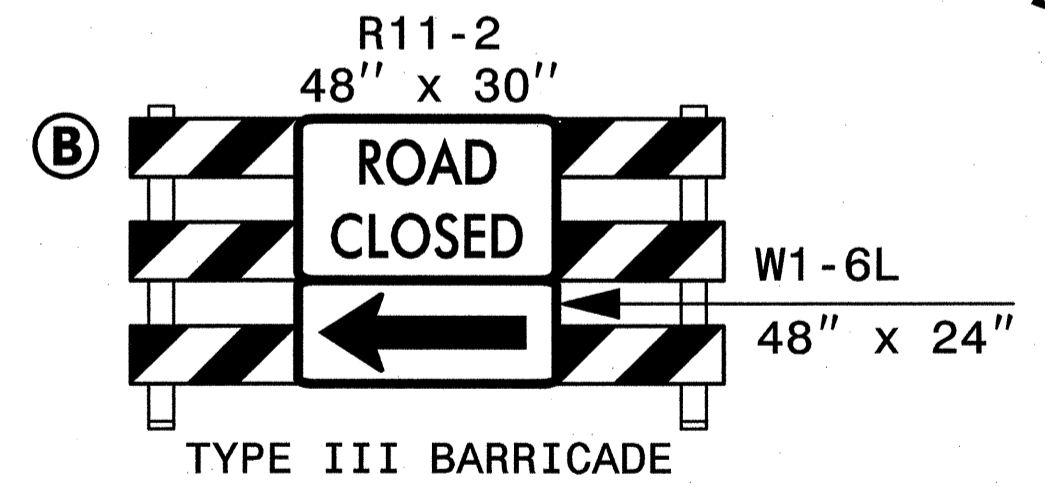
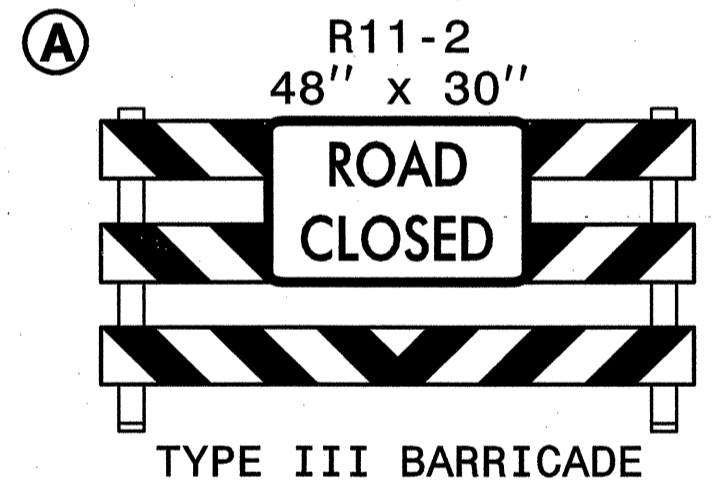
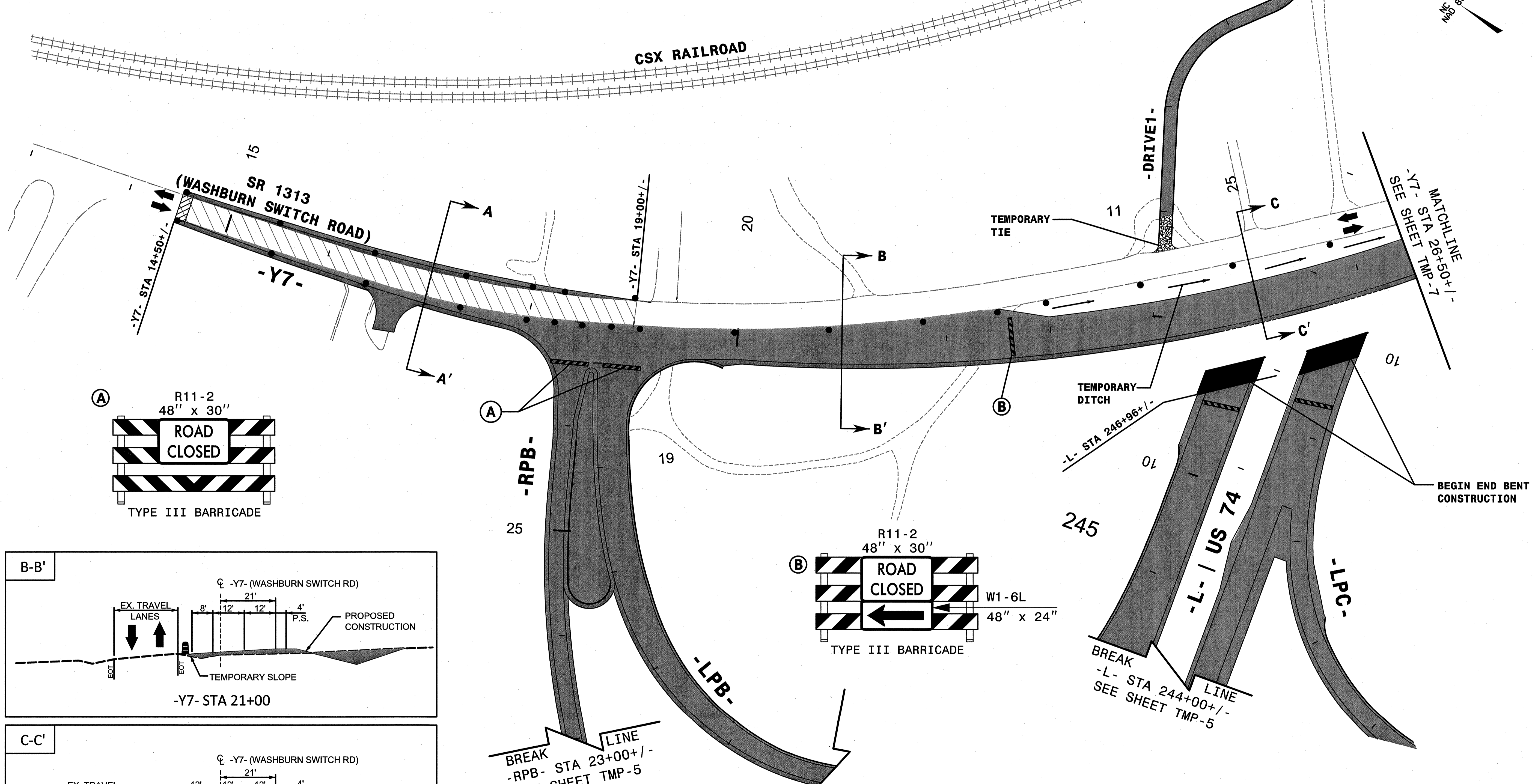
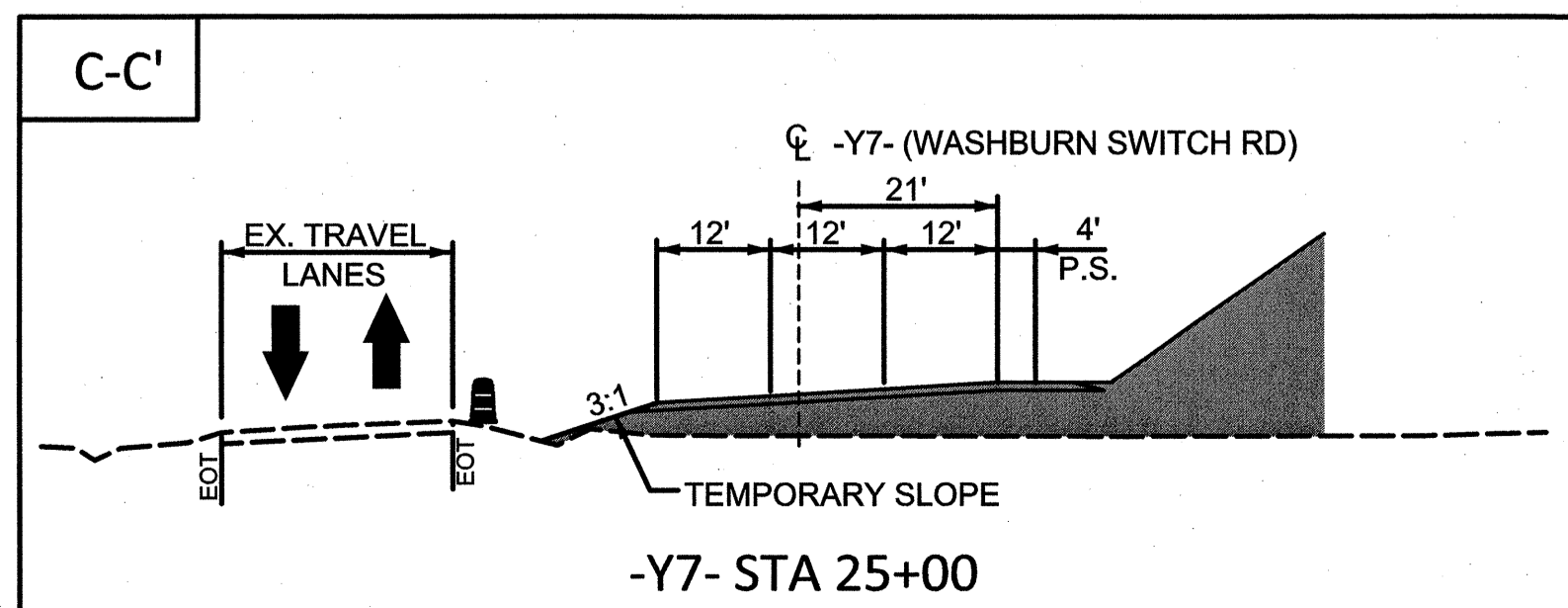
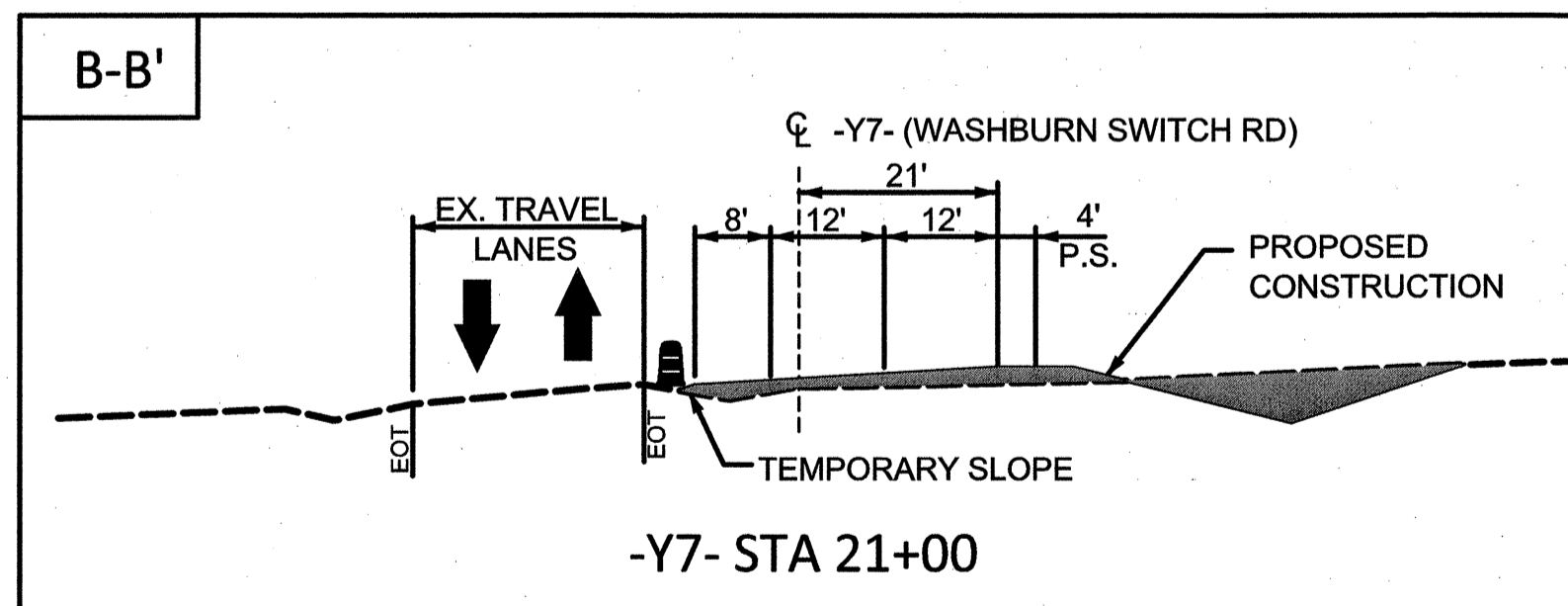
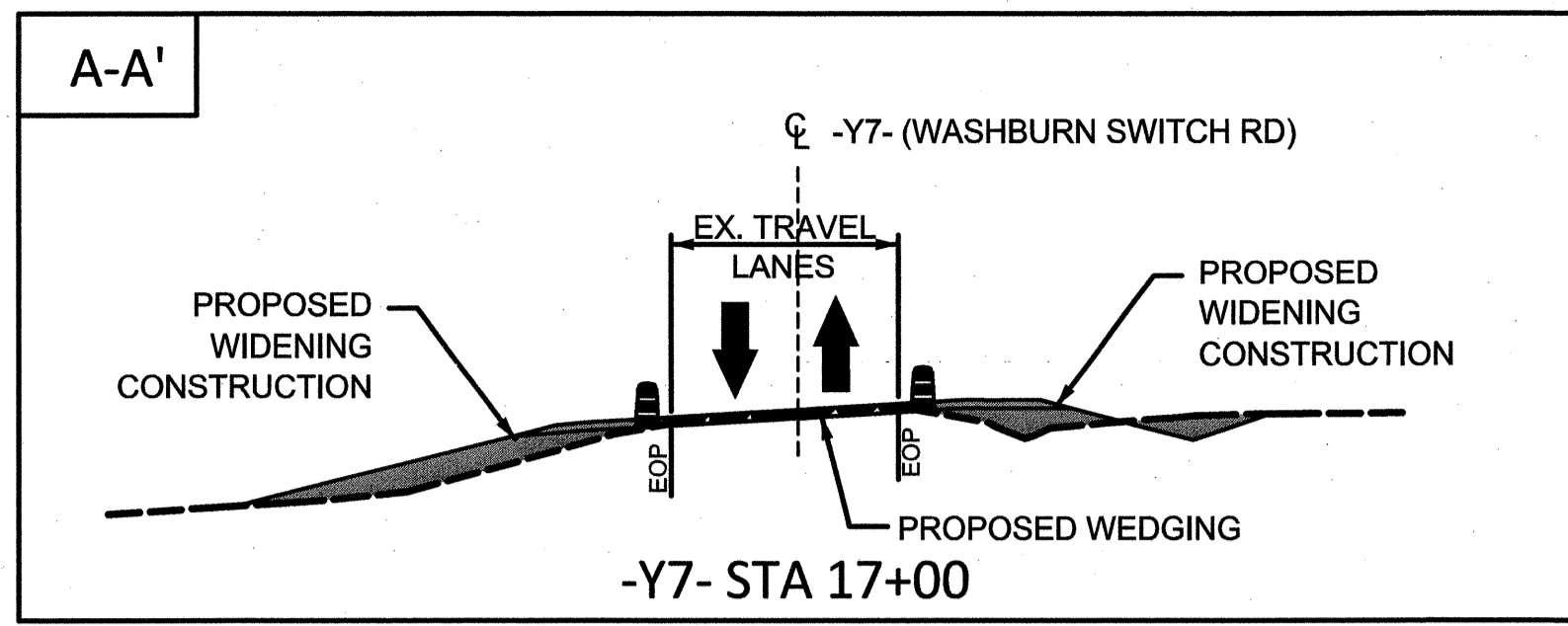
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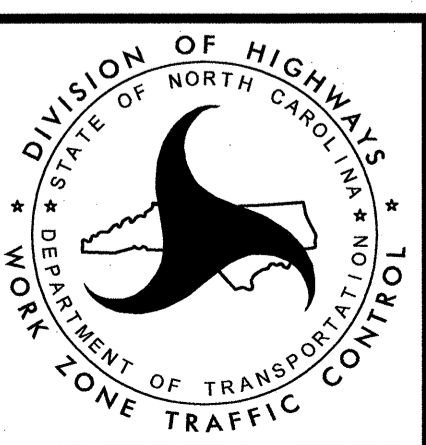
TRANSPORTATION
MANAGEMENT PLAN

**AREA 1
PHASE I DETAIL**

SHEET 1 OF 3

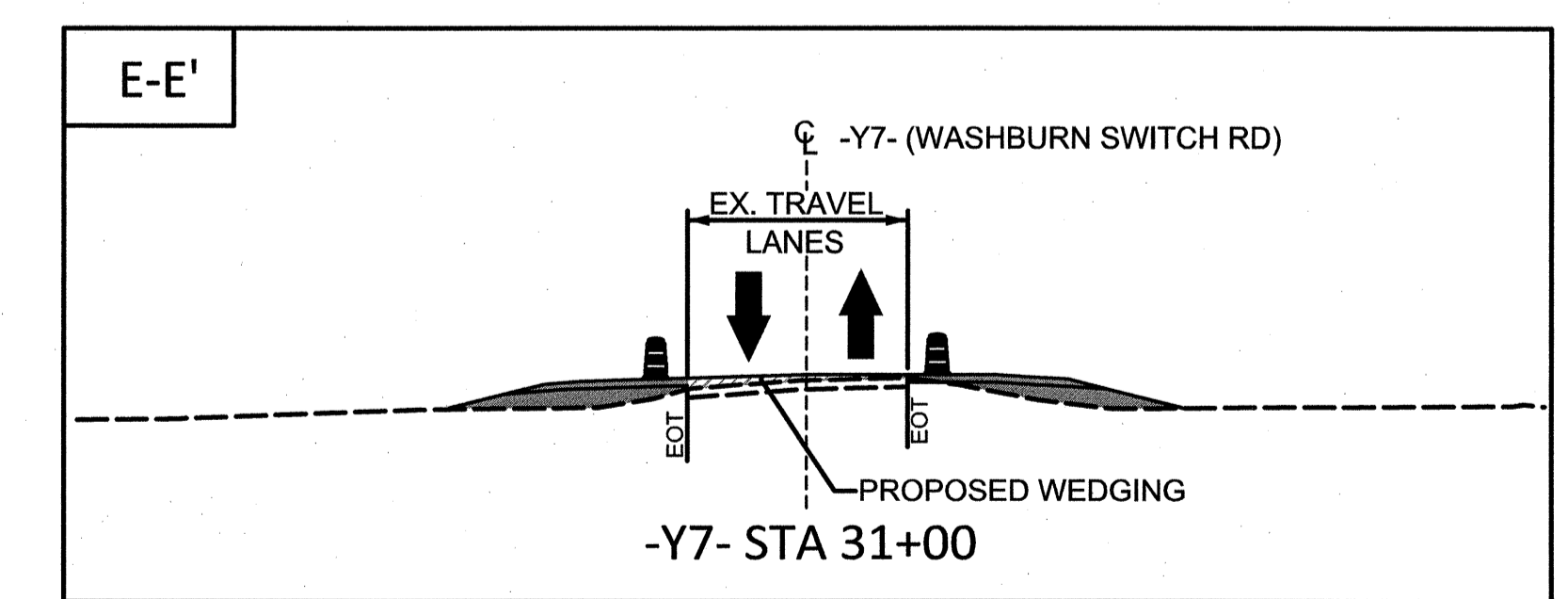
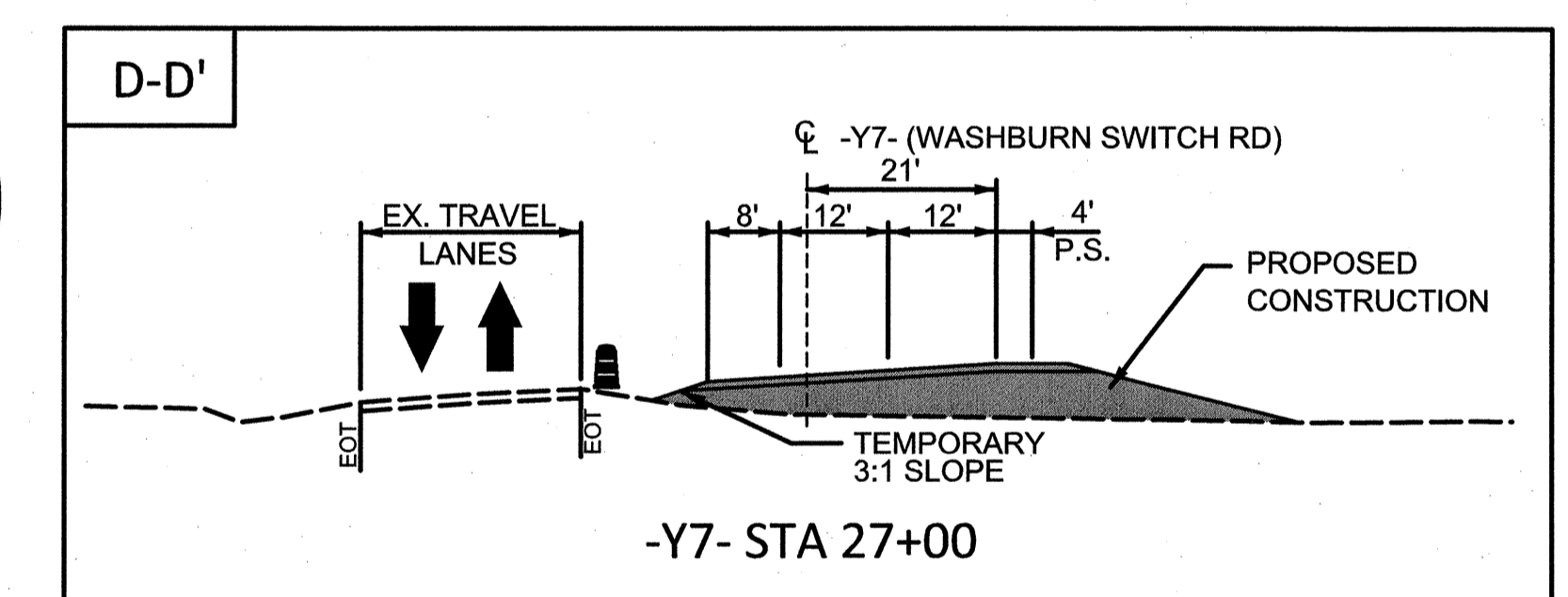
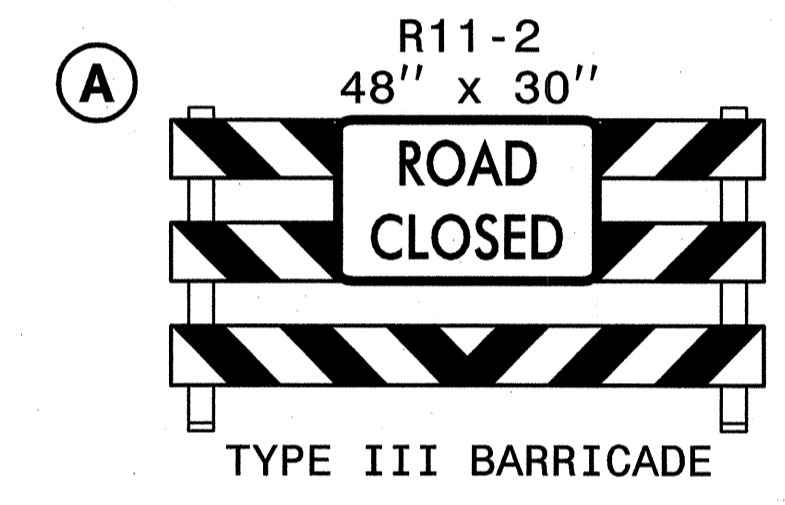
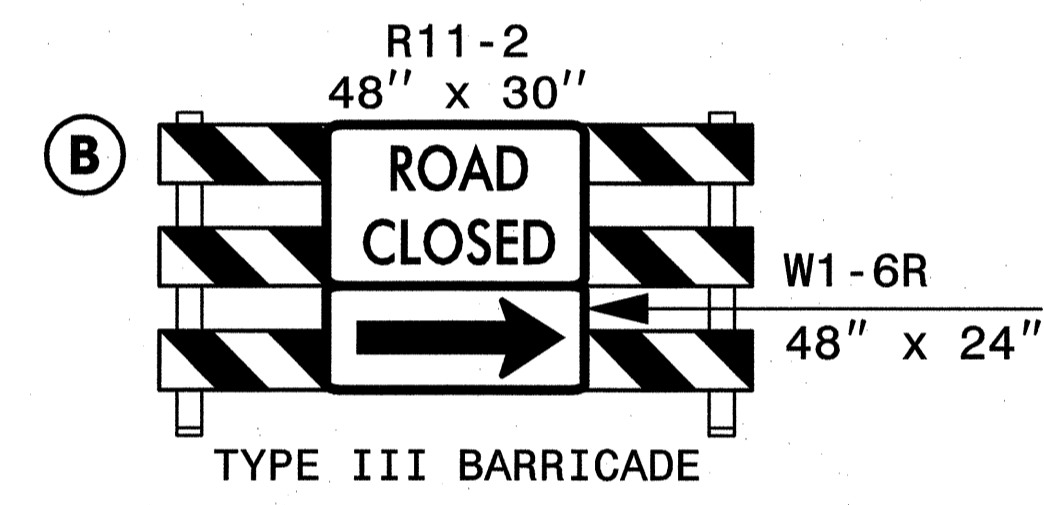
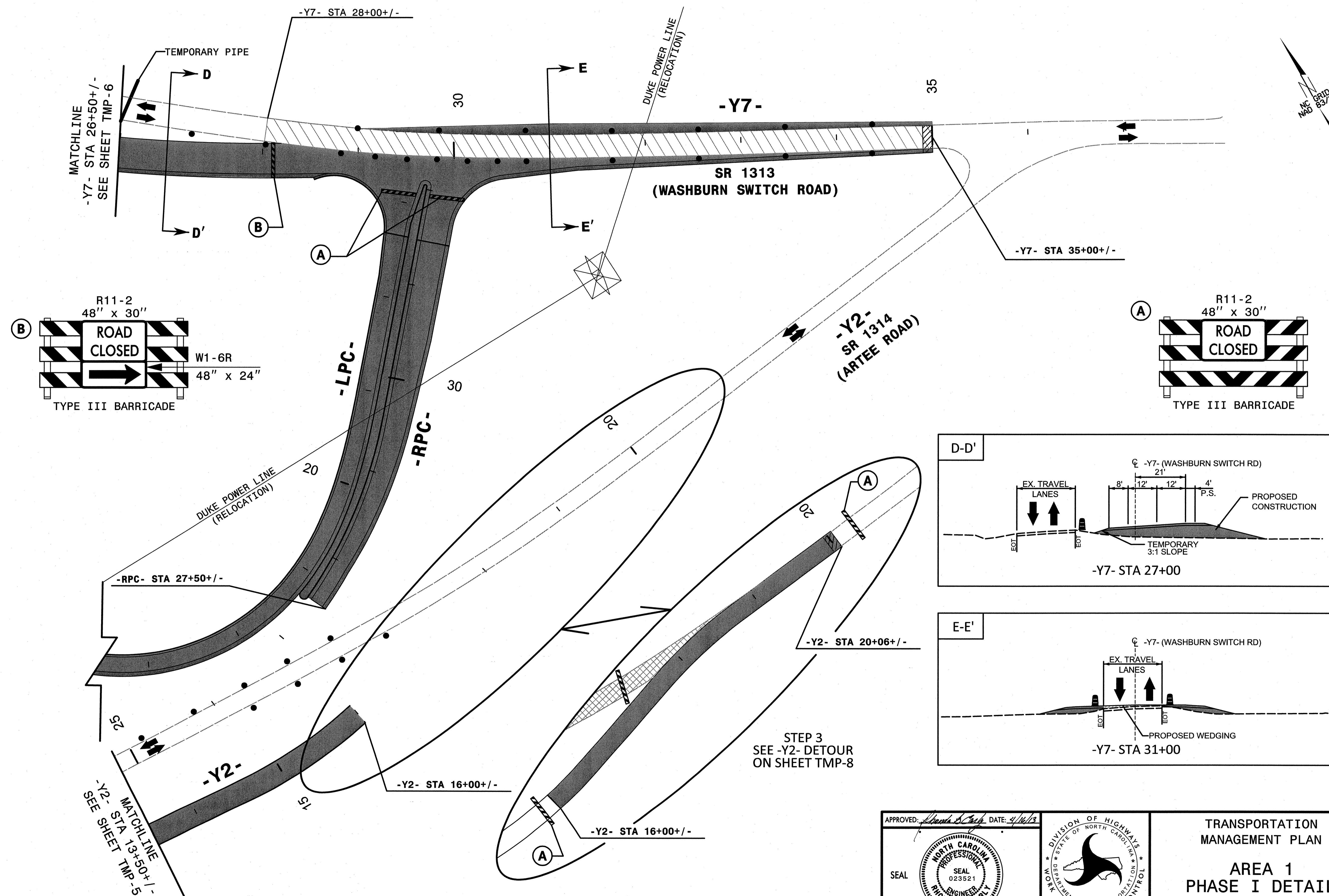


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 SEAL 023521
 RYONDA B. EARLY



TRANSPORTATION MANAGEMENT PLAN
 AREA 1
 PHASE I DETAIL
 SHEET 2 OF 3

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STEP 3
 SEE -Y2- DETOUR
 ON SHEET TMP-8

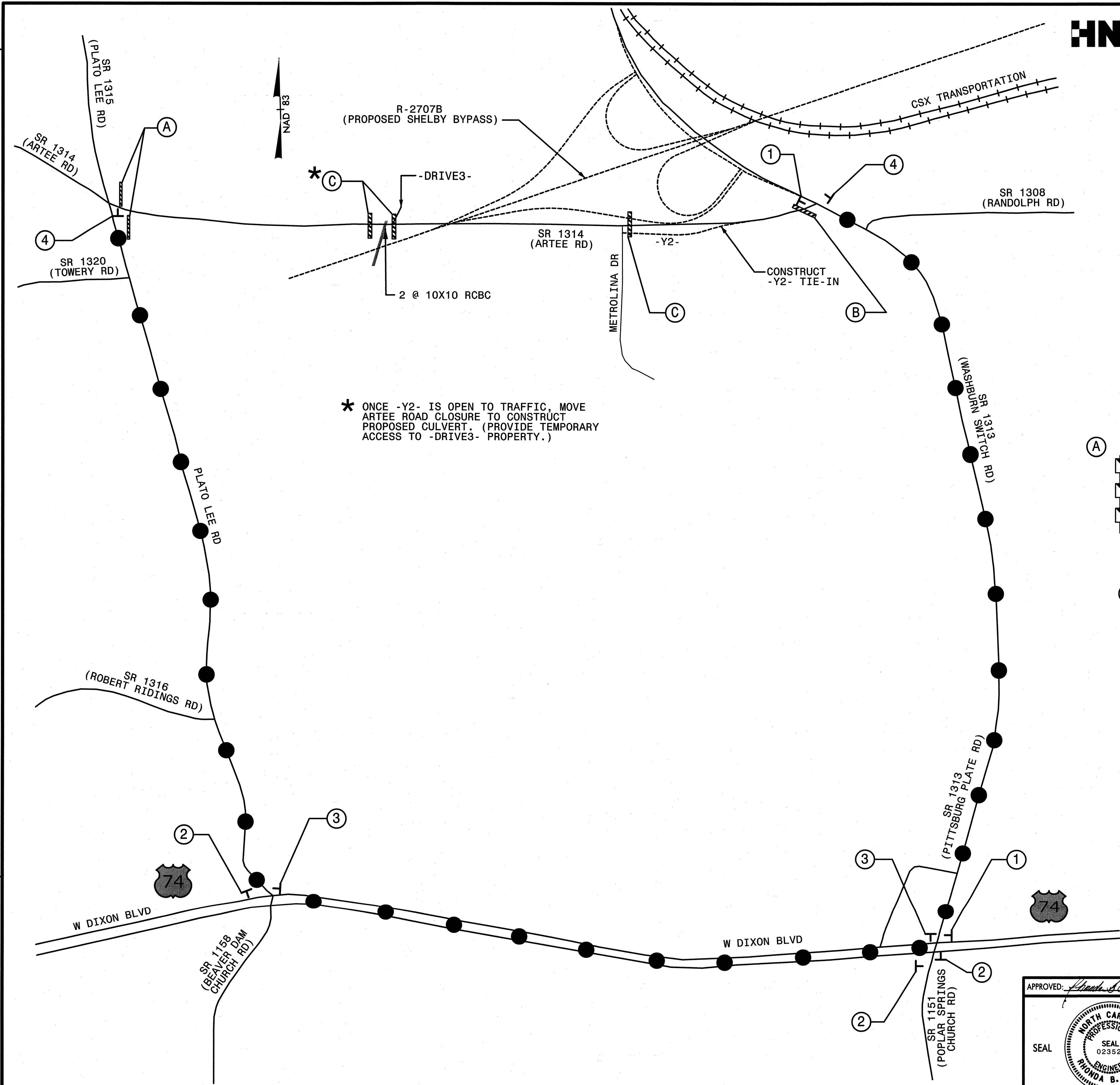
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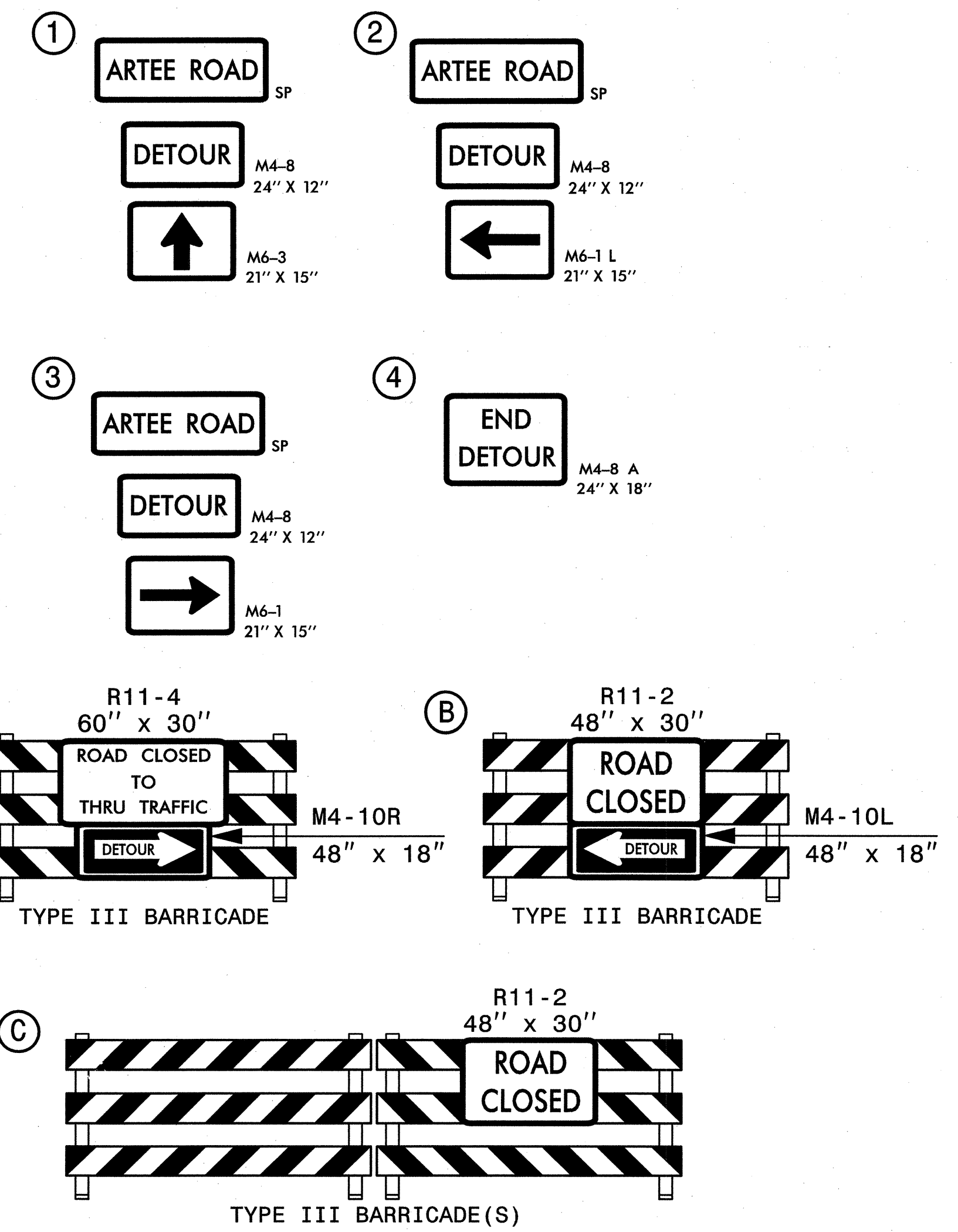
TRANSPORTATION
 MANAGEMENT PLAN

AREA 1
 PHASE I DETAIL

SHEET 3 OF 3



* ONCE -Y2- IS OPEN TO TRAFFIC, MOVE ARTEE ROAD CLOSURE TO CONSTRUCT PROPOSED CULVERT. (PROVIDE TEMPORARY ACCESS TO -DRIVE3- PROPERTY.)

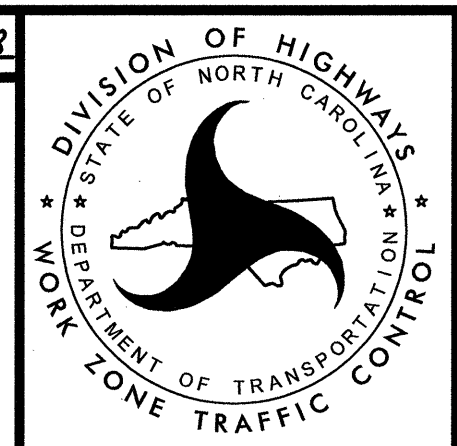


SUPPLEMENT WITH ADDITIONAL SIGNS REQUIRED IN RSD 1101.03 (SHEET 1 OF 9)

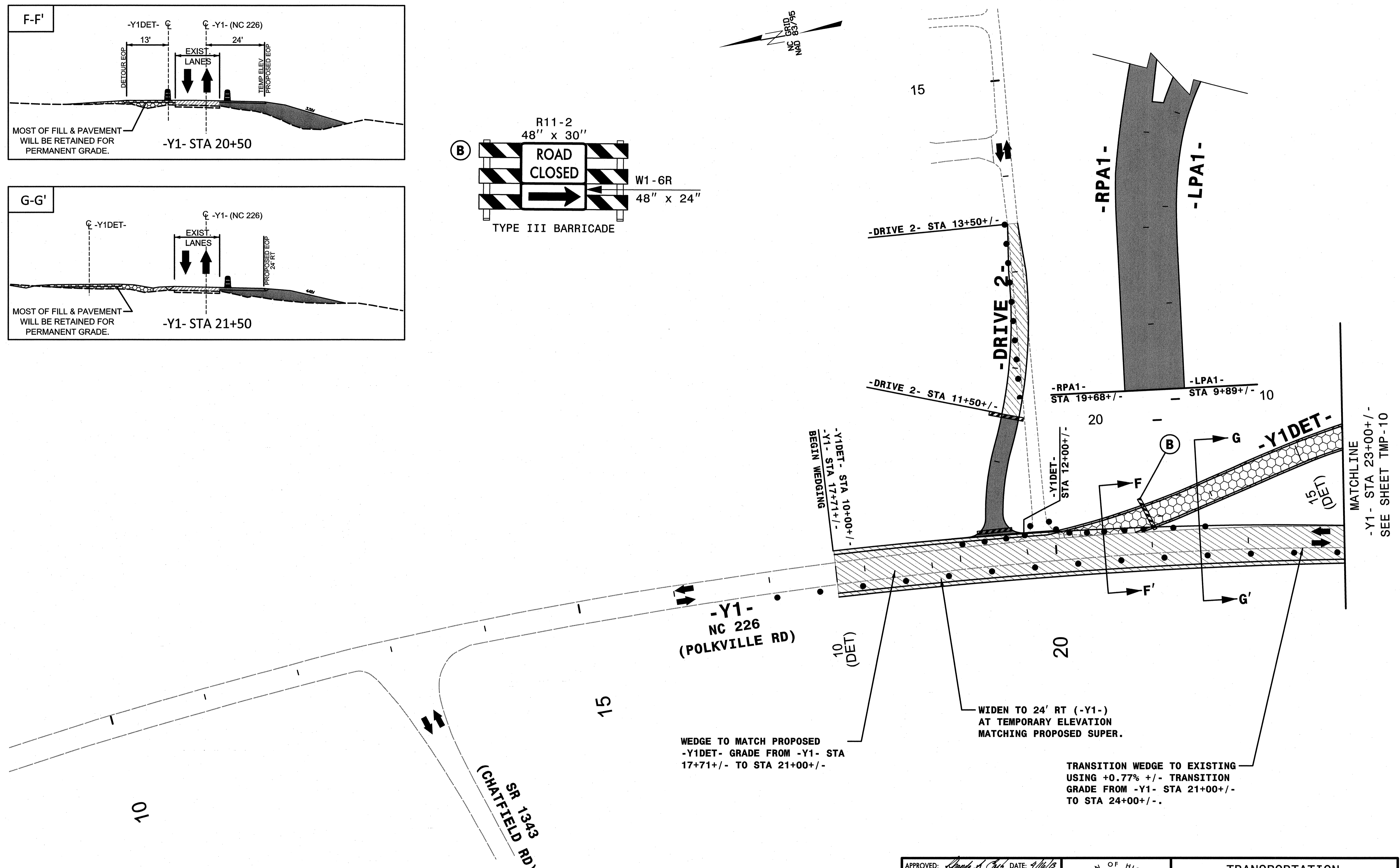
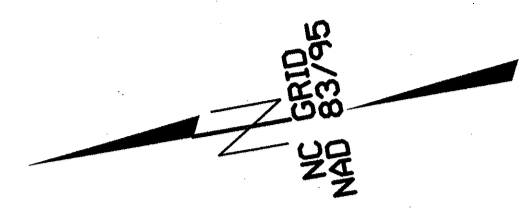
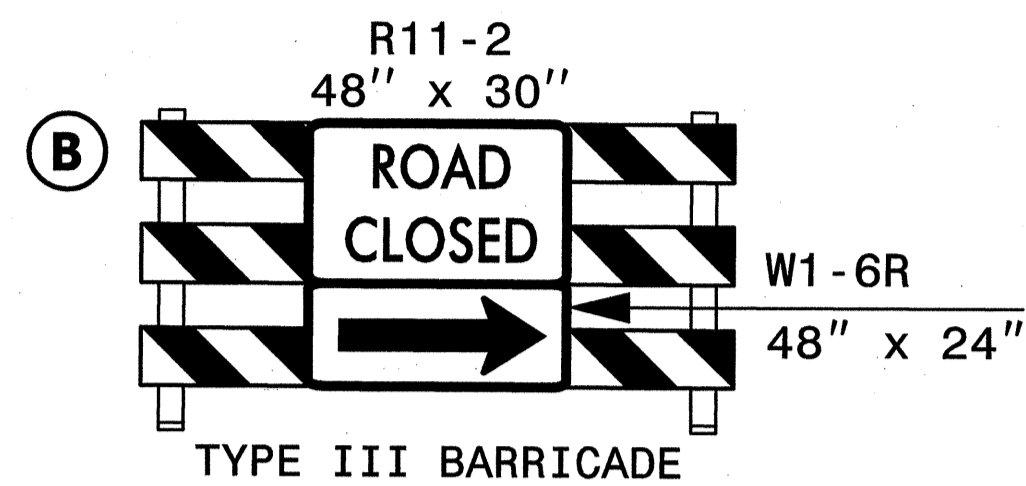
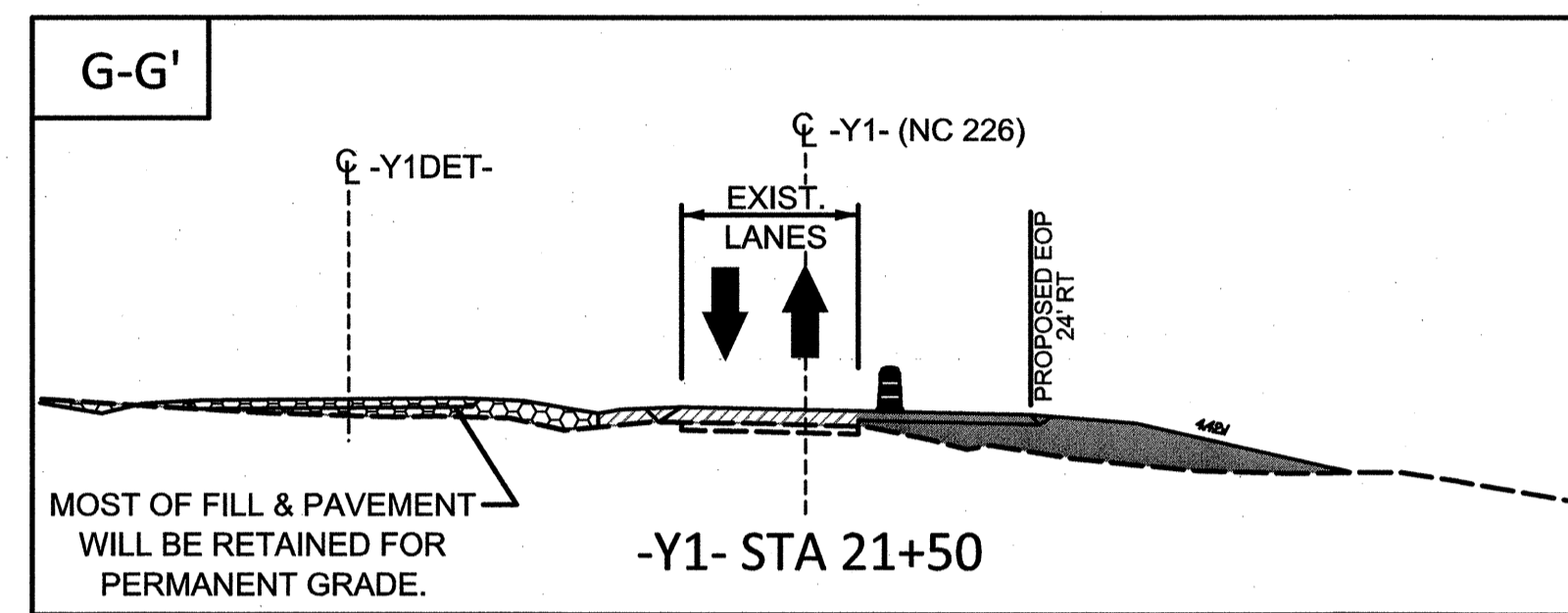
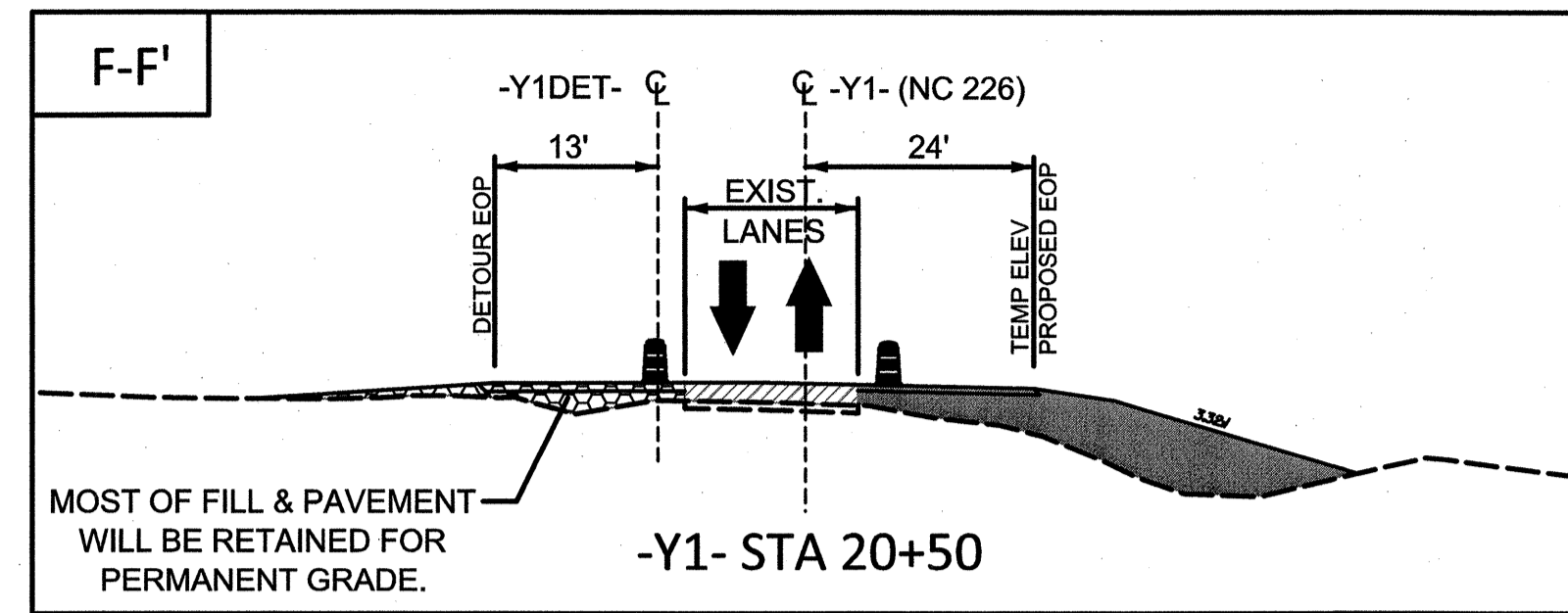
LEGEND
 ● = OFF-SITE DETOUR ROUTE FOR -Y2- TIE-IN CONSTRUCTION
 DETOUR LENGTH IS 3.2 MILES

REVISIONS
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APPROVED: *[Signature]* DATE: 4/16/13
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TRANSPORTATION MANAGEMENT PLAN
 AREA 1 PHASE I
 DETAIL
 -Y2- DETOUR



WEDGE TO MATCH PROPOSED -Y1DET- GRADE FROM -Y1- STA 17+71+/- TO STA 21+00+/-

WIDEN TO 24' RT (-Y1-) AT TEMPORARY ELEVATION MATCHING PROPOSED SUPER.

TRANSITION WEDGE TO EXISTING USING +0.77% +/- TRANSITION GRADE FROM -Y1- STA 21+00+/- TO STA 24+00+/-.

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REVISIONS

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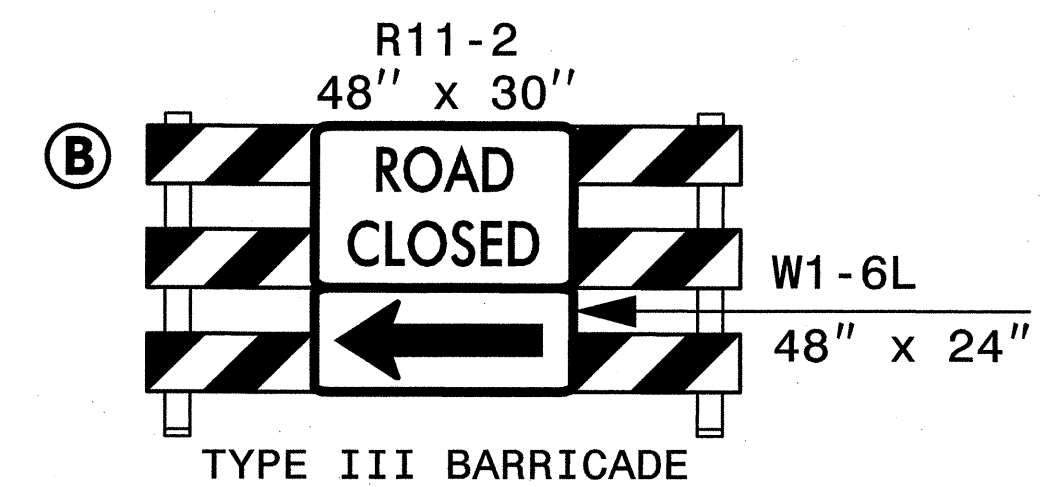
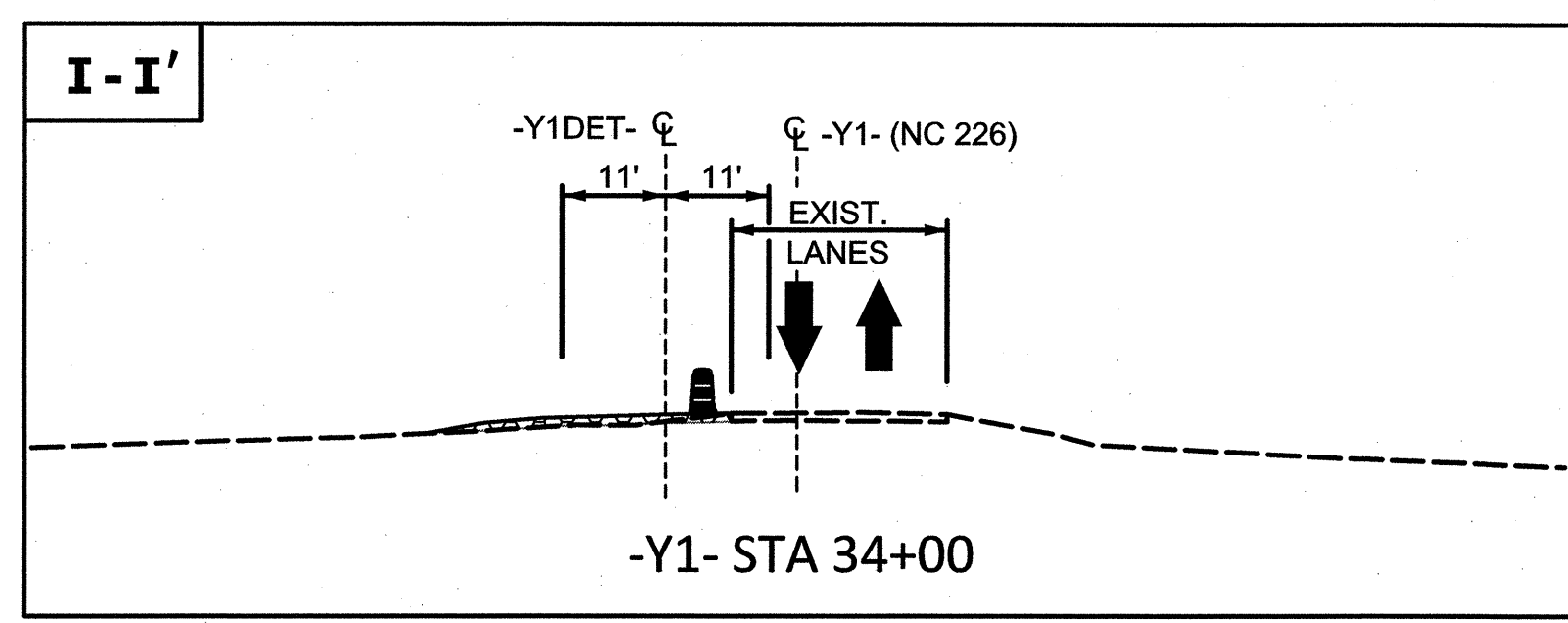
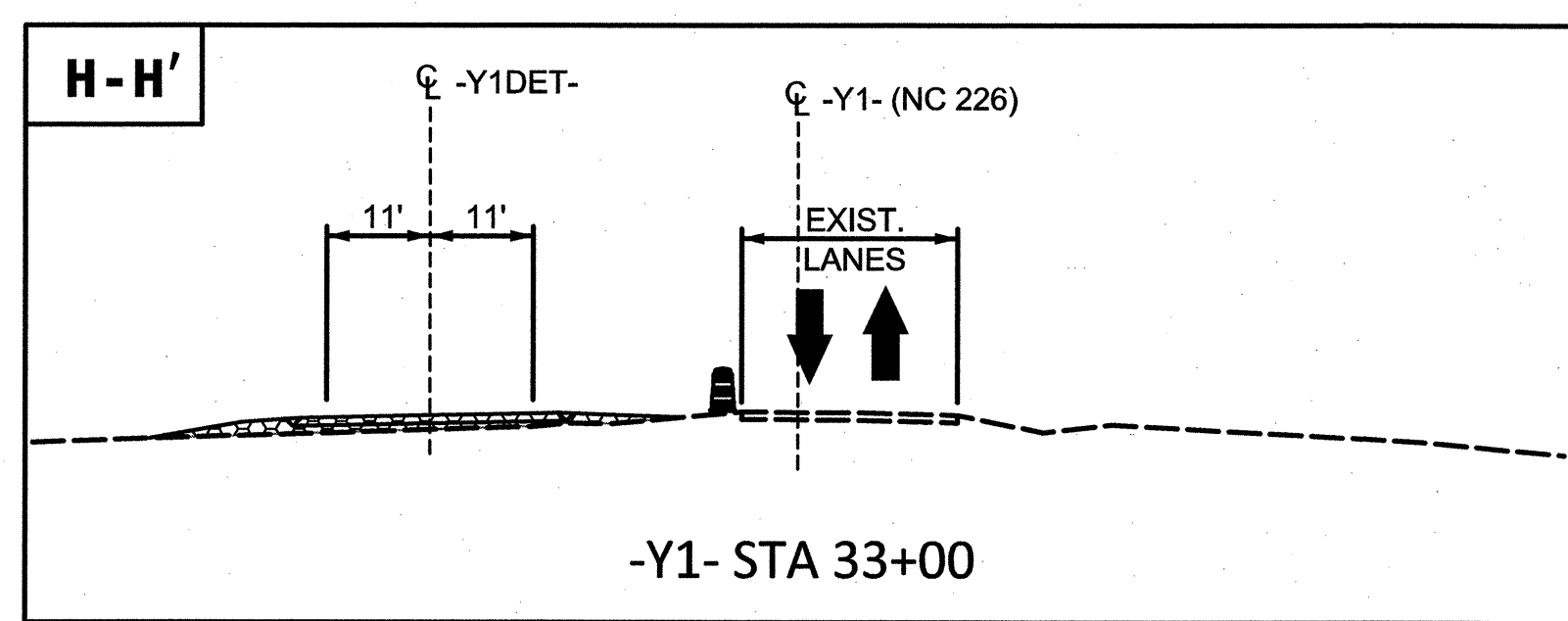
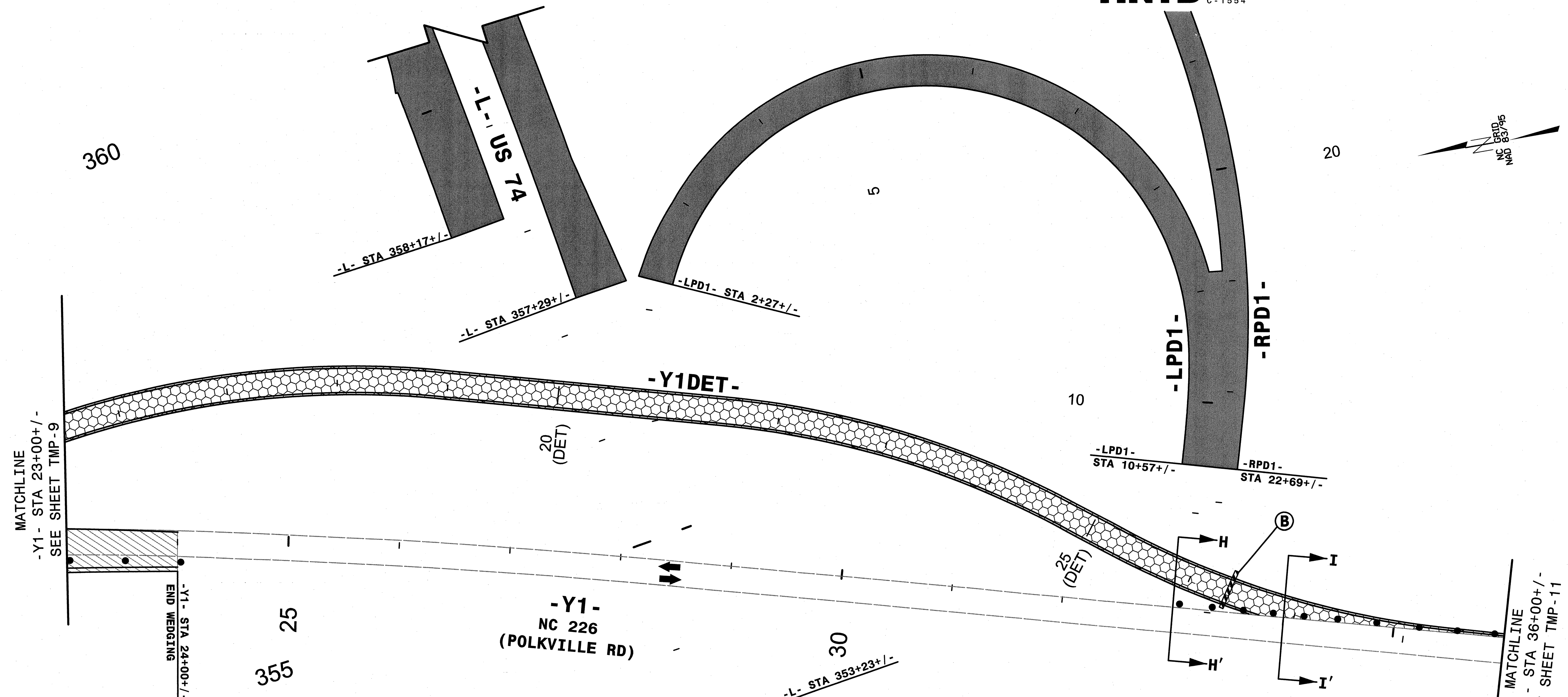
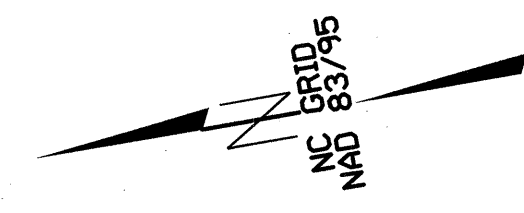
TRANSPORTATION MANAGEMENT PLAN

AREA 2

PHASE I DETAIL

SHEET 1 OF 3

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 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 C-1554



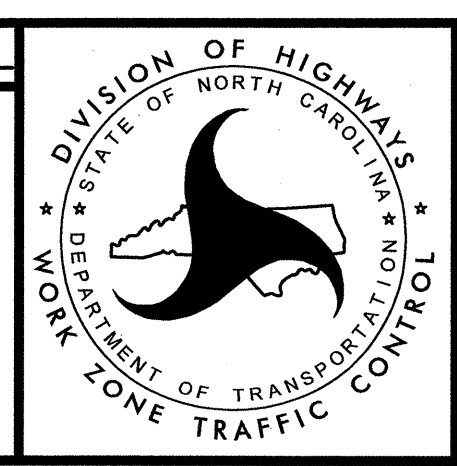
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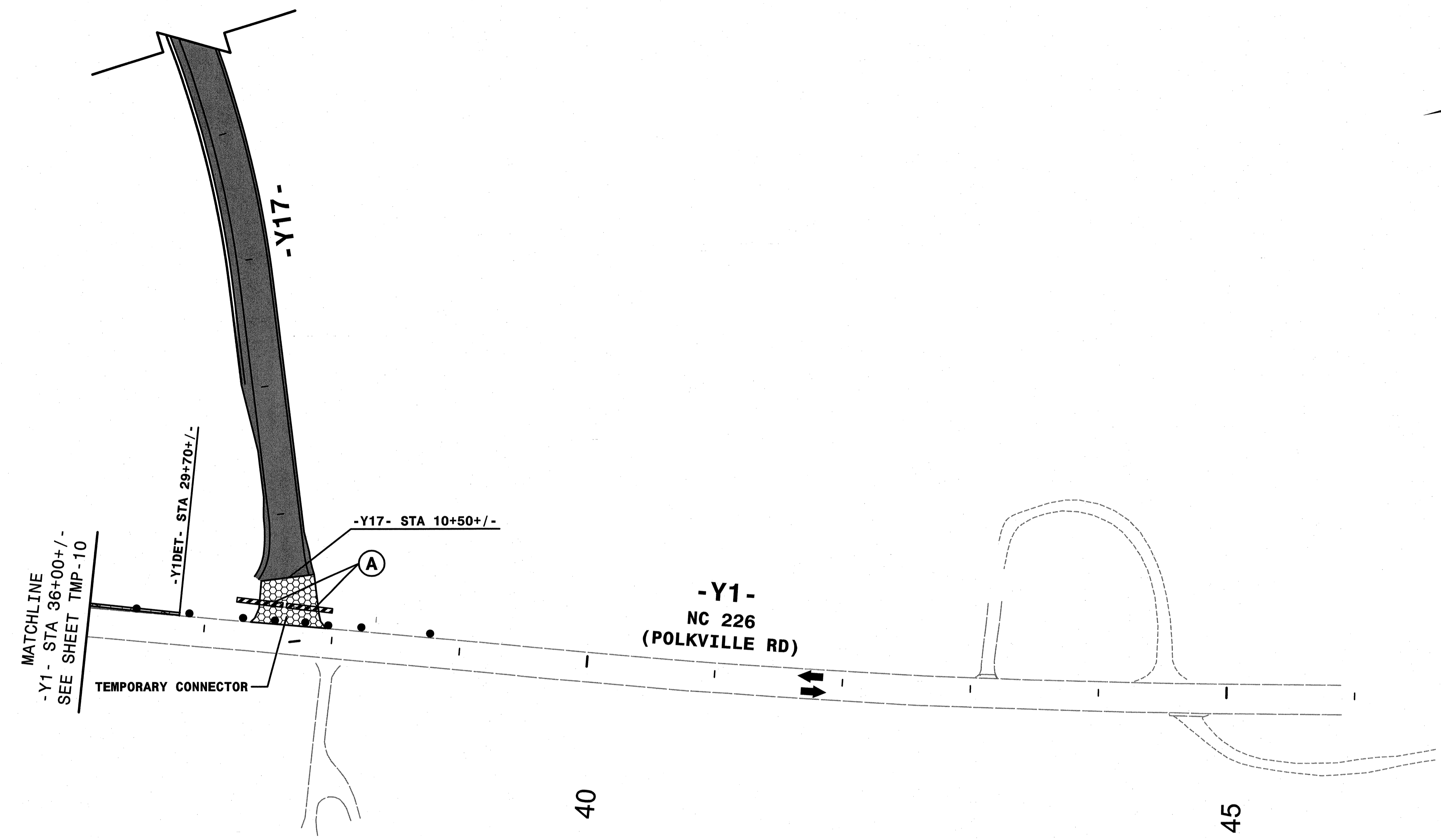
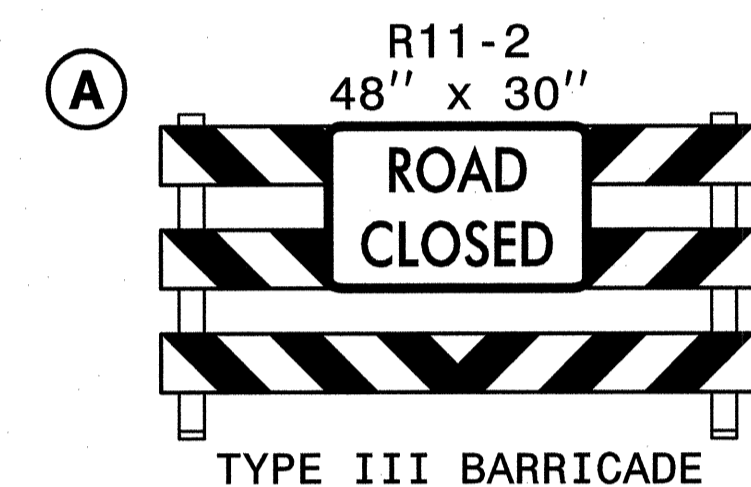
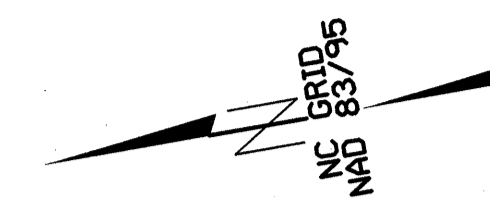
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TRANSPORTATION
 MANAGEMENT PLAN
 AREA 2
 PHASE I DETAIL
 SHEET 2 OF 3



REVISIONS

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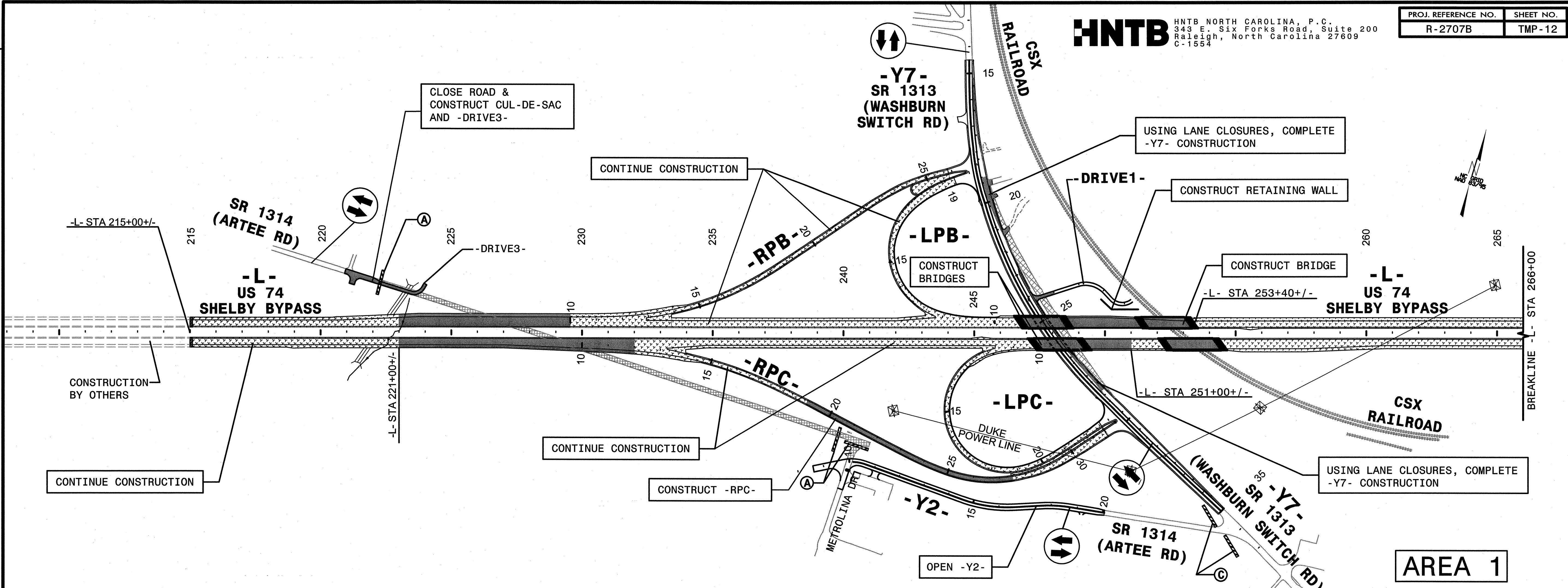
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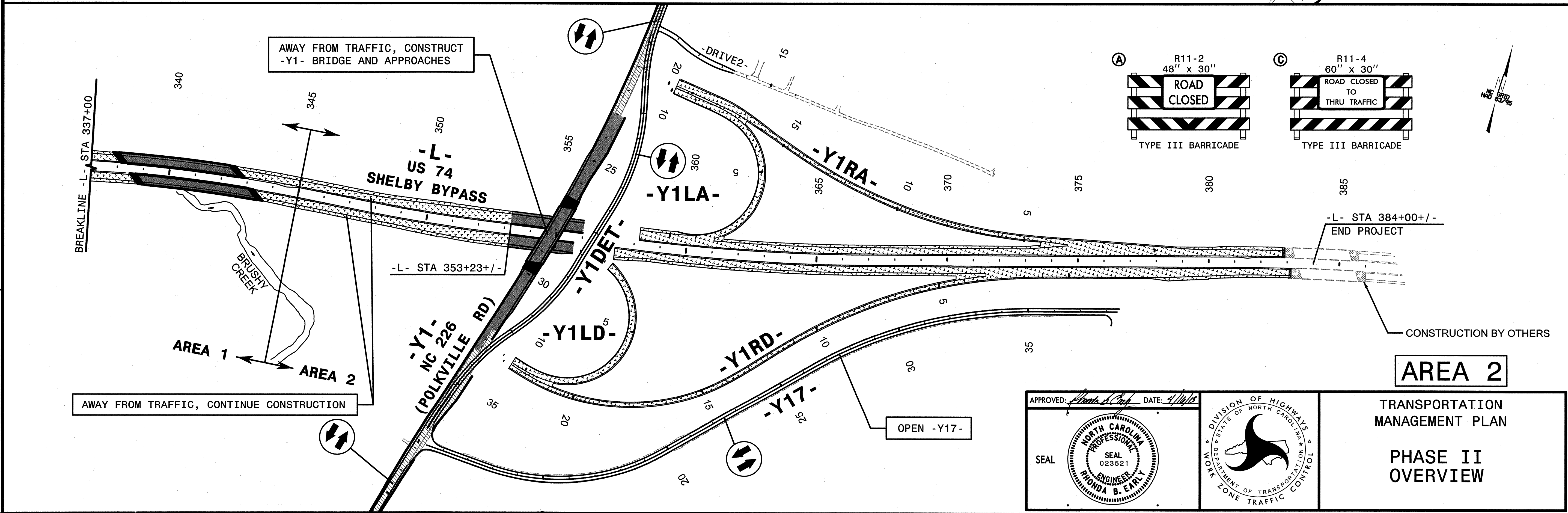
TRANSPORTATION
 MANAGEMENT PLAN

AREA 2
PHASE I DETAIL

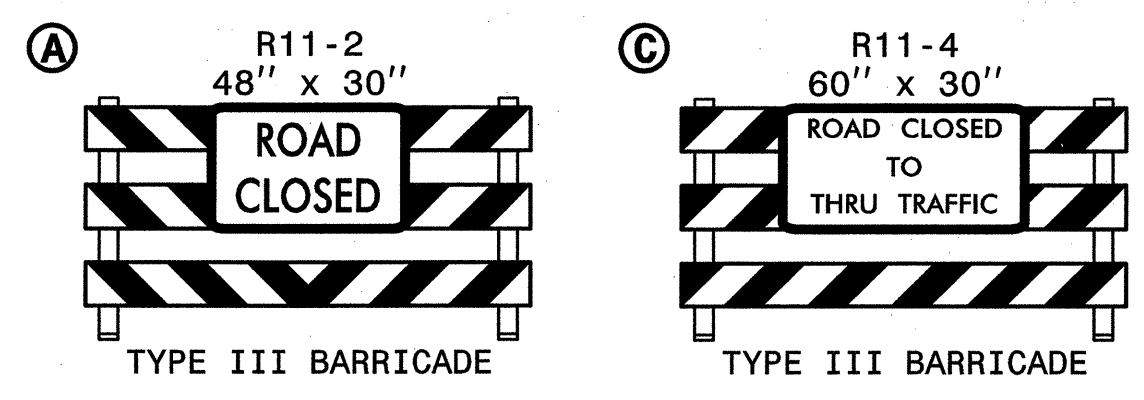
SHEET 3 OF 3



AREA 1



AREA 2



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 RICHONDA B. EARLY

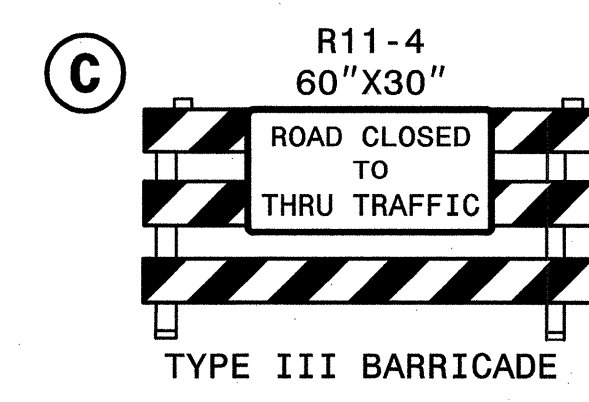
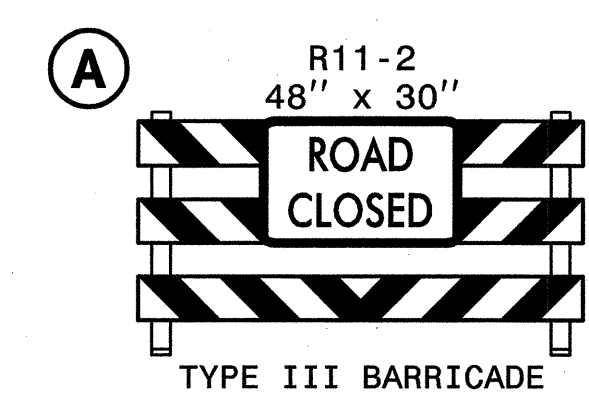
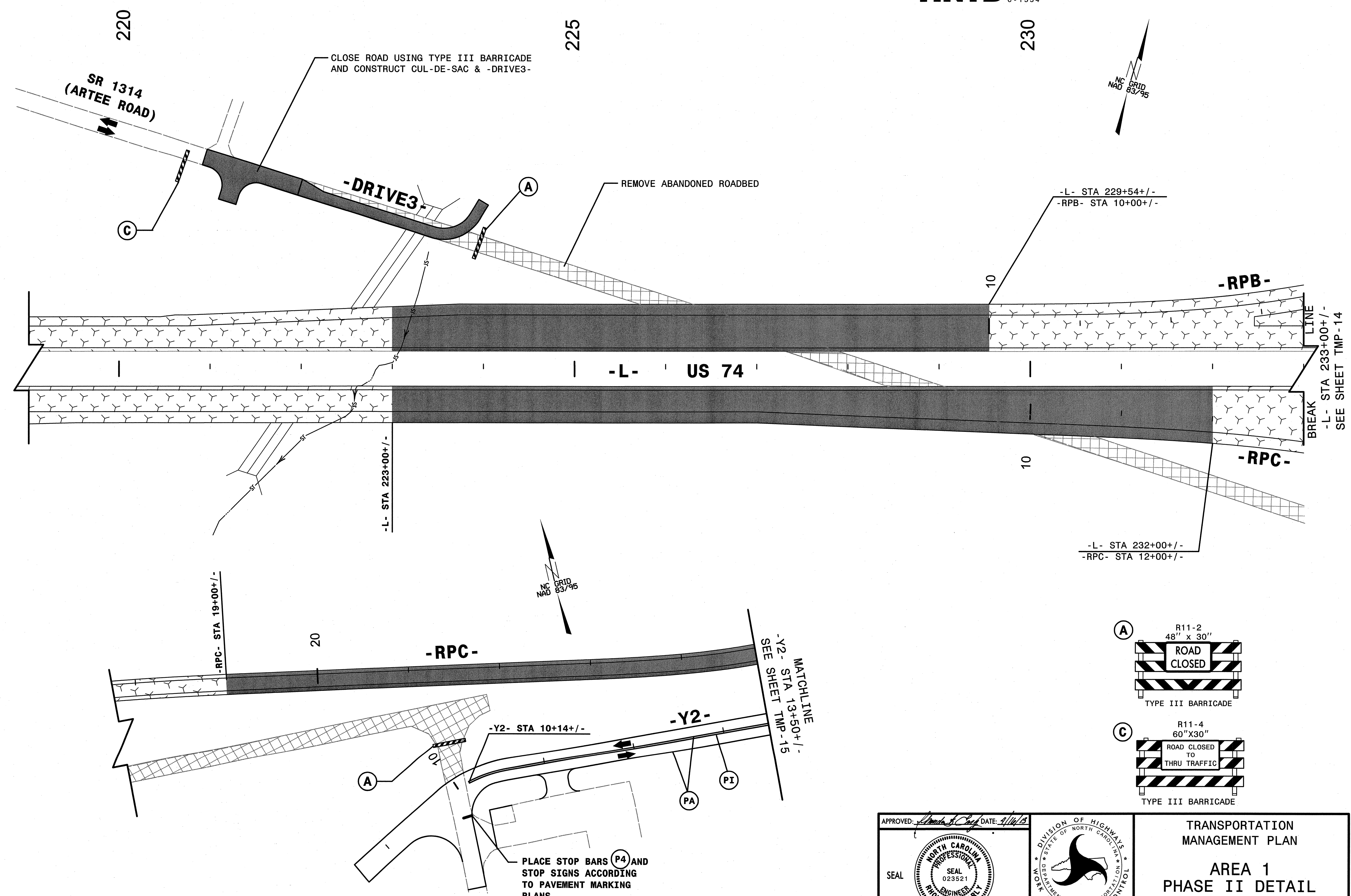


TRANSPORTATION MANAGEMENT PLAN

PHASE II OVERVIEW

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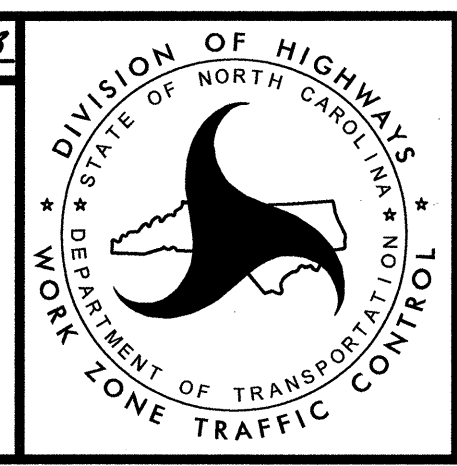
REVISIONS



PLACE STOP BARS (P4) AND STOP SIGNS ACCORDING TO PAVEMENT MARKING PLANS

APPROVED: *[Signature]* DATE: 4/16/13

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TRANSPORTATION MANAGEMENT PLAN

AREA 1
 PHASE II DETAIL

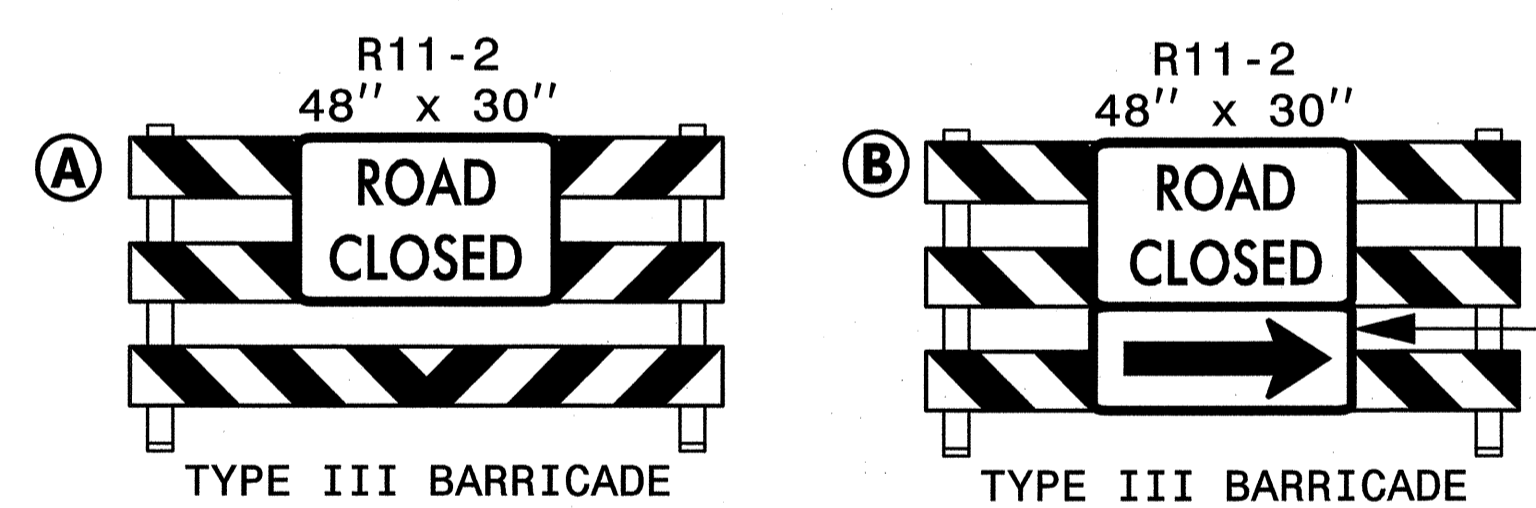
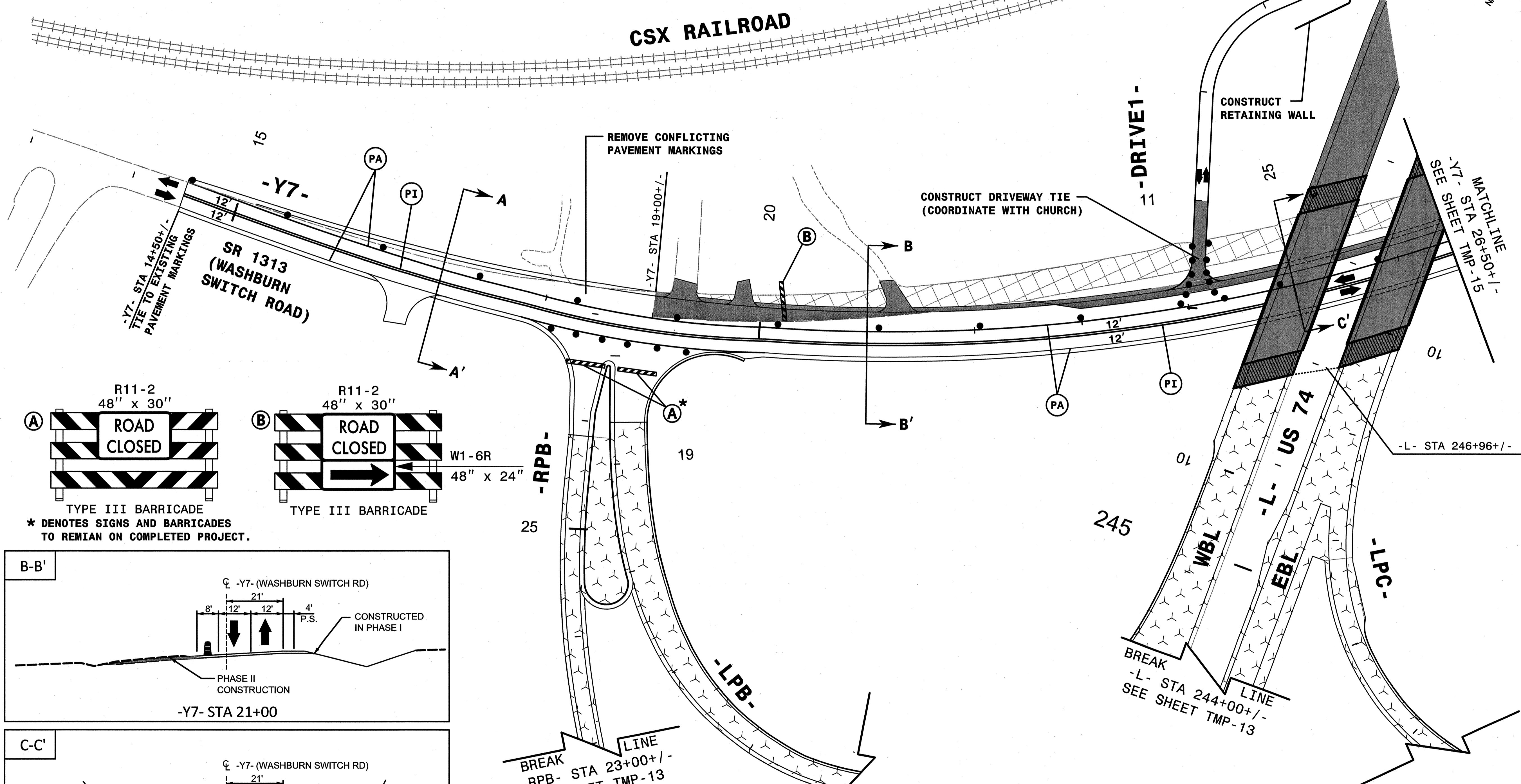
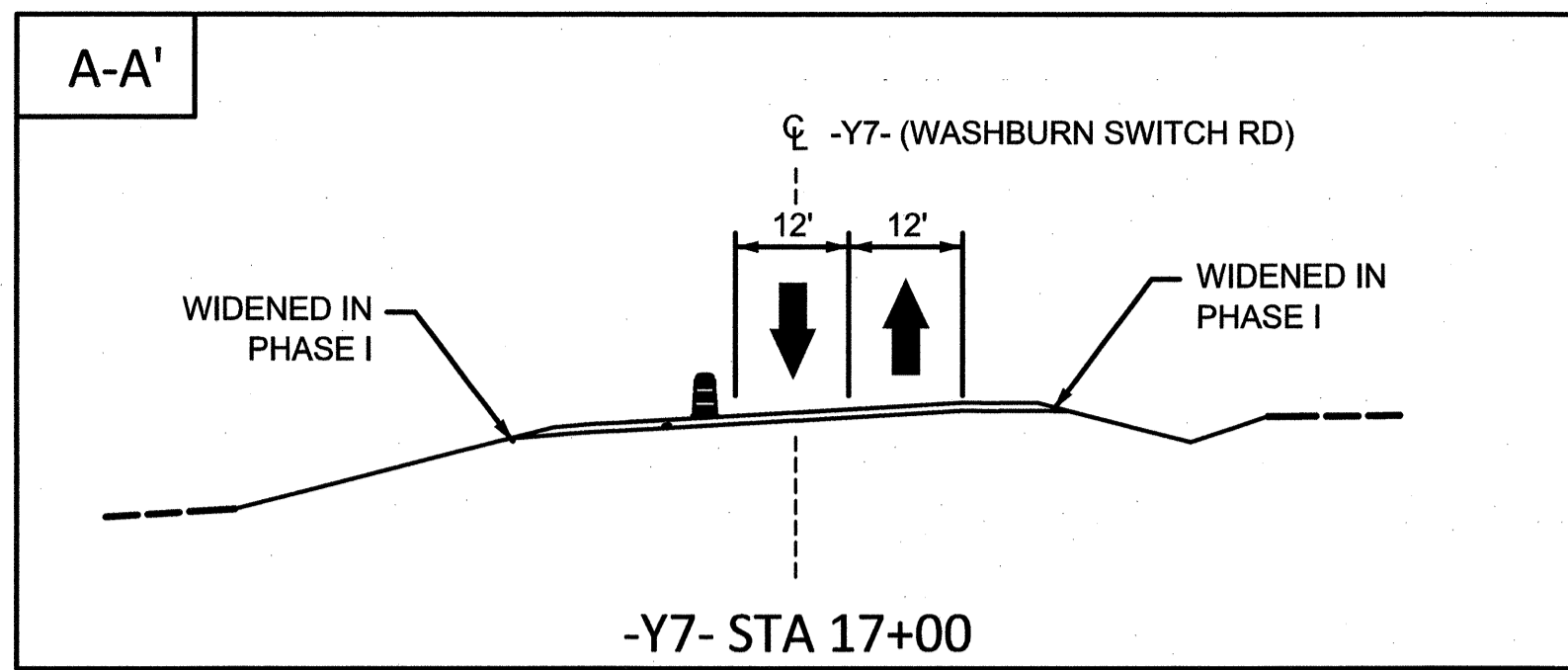
SHEET 1 OF 3

REVISIONS

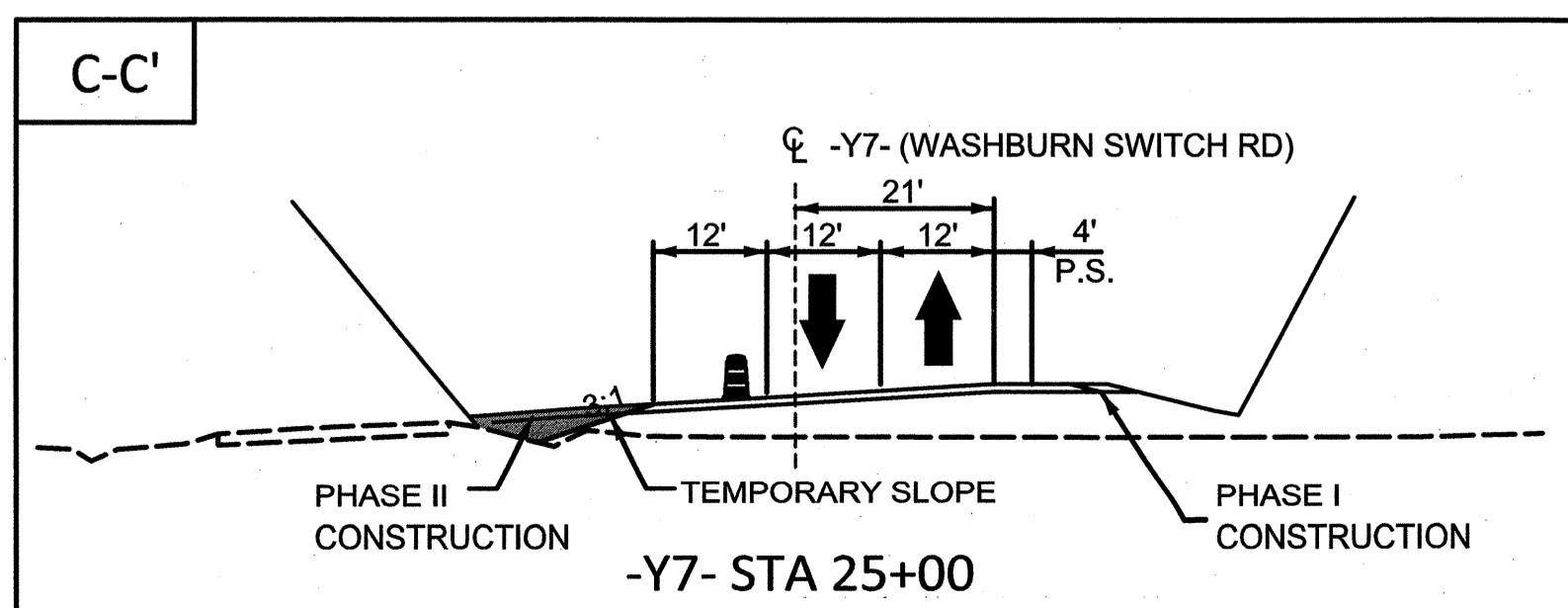
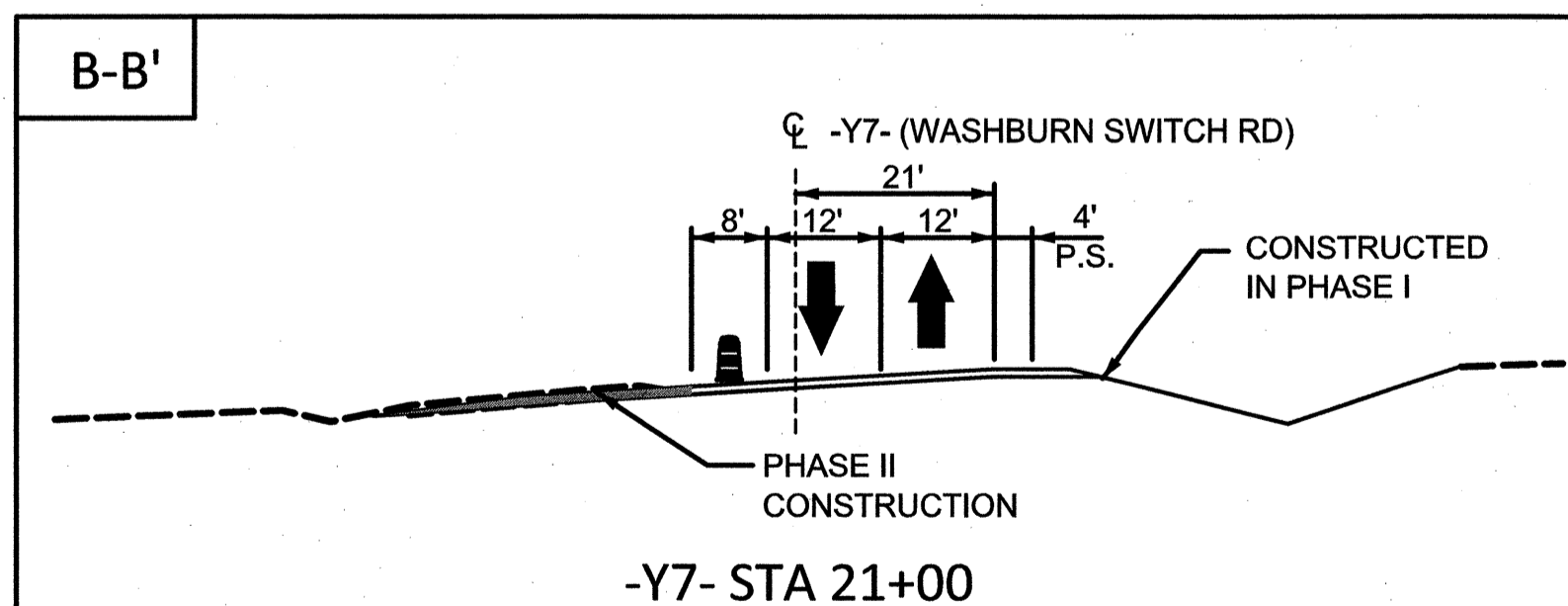
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* DENOTES SIGNS AND BARRICADES TO REMIAN ON COMPLETED PROJECT.



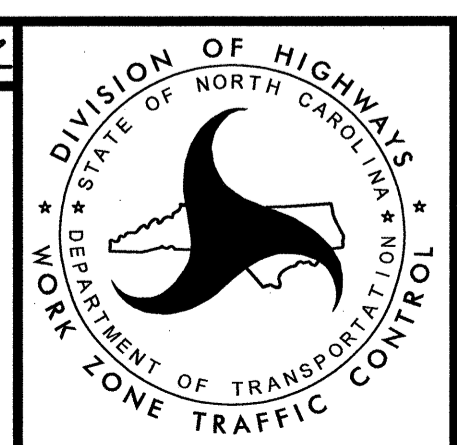
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SEAL

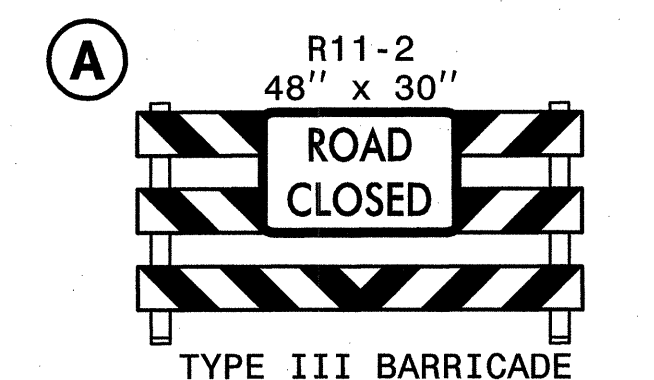
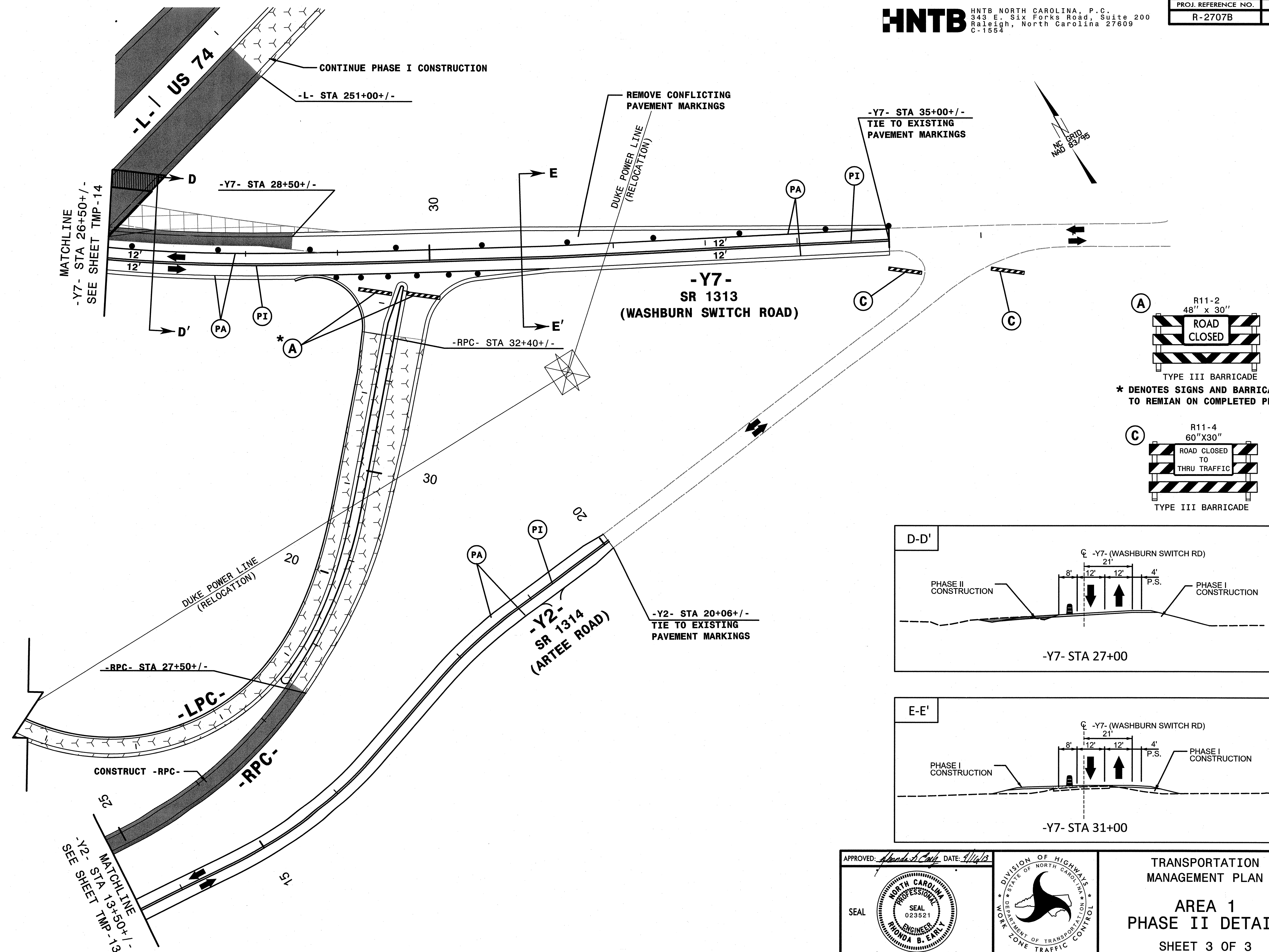
NORTH CAROLINA PROFESSIONAL ENGINEER
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 RONDA B. EARLY



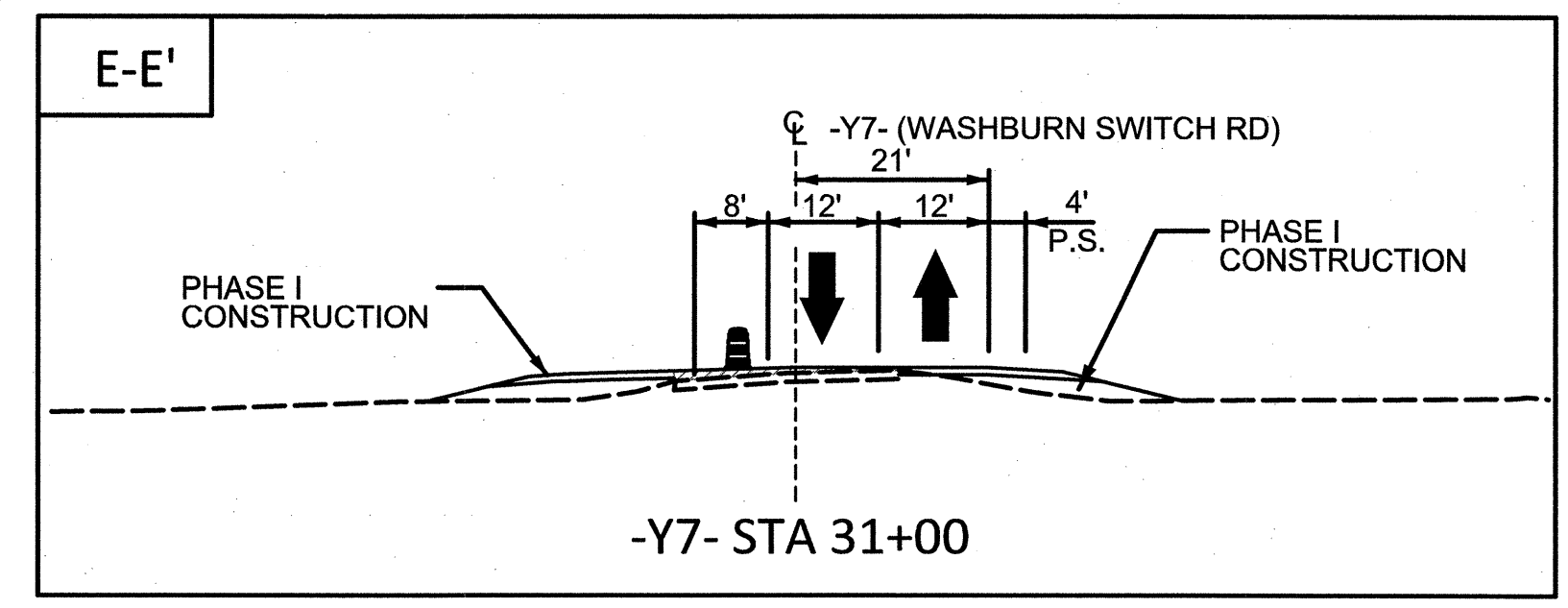
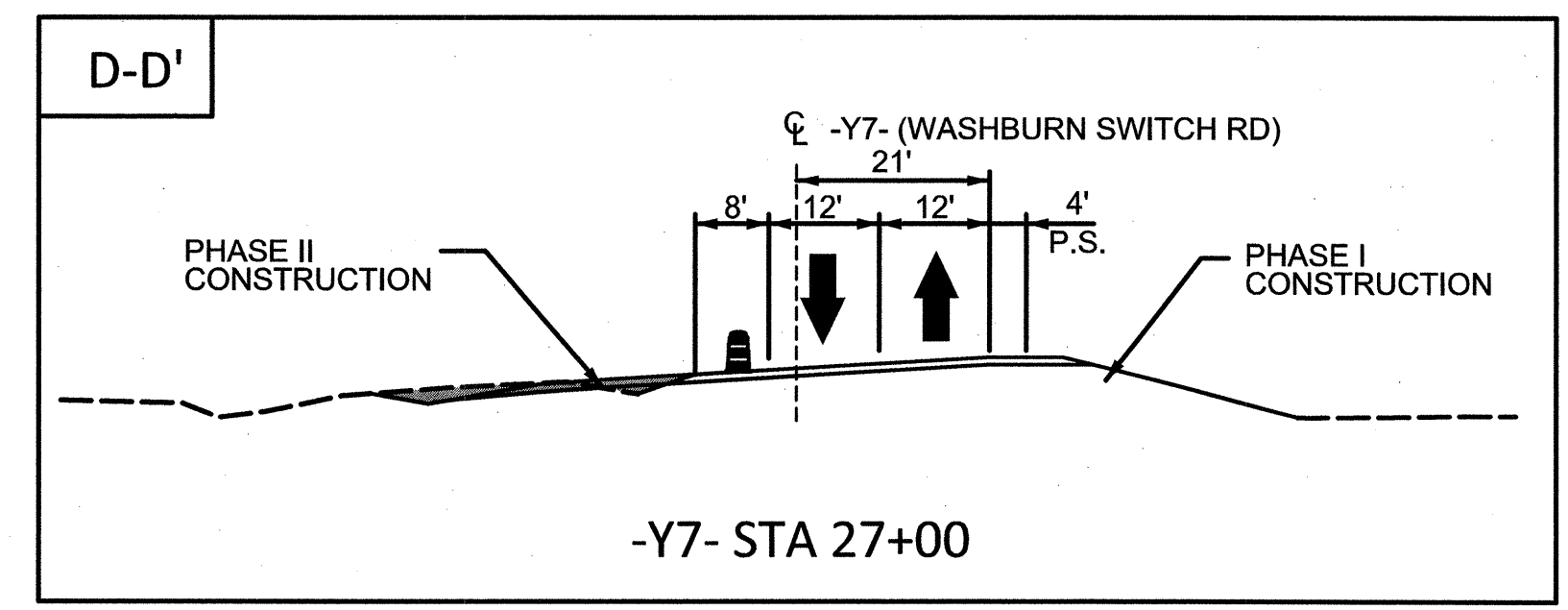
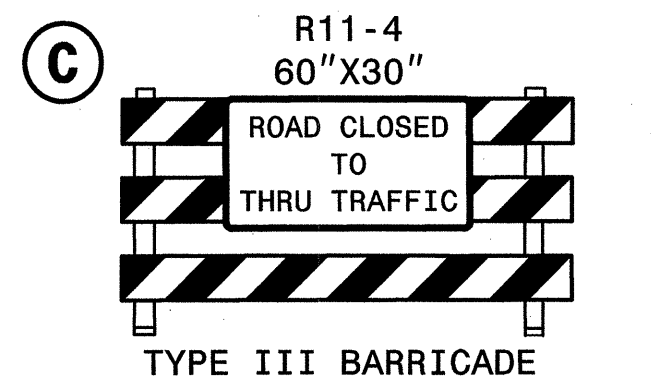
TRANSPORTATION MANAGEMENT PLAN

AREA 1
 PHASE II DETAIL

SHEET 2 OF 3

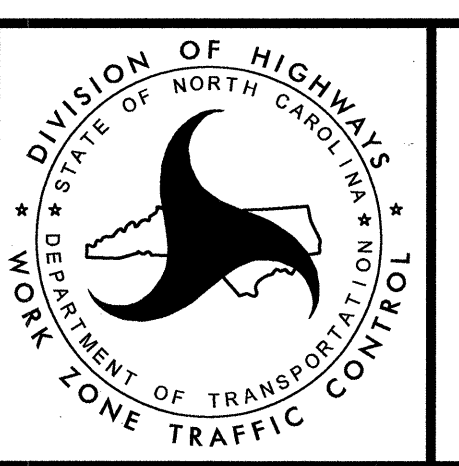


* DENOTES SIGNS AND BARRICADES TO REMAIN ON COMPLETED PROJECT.



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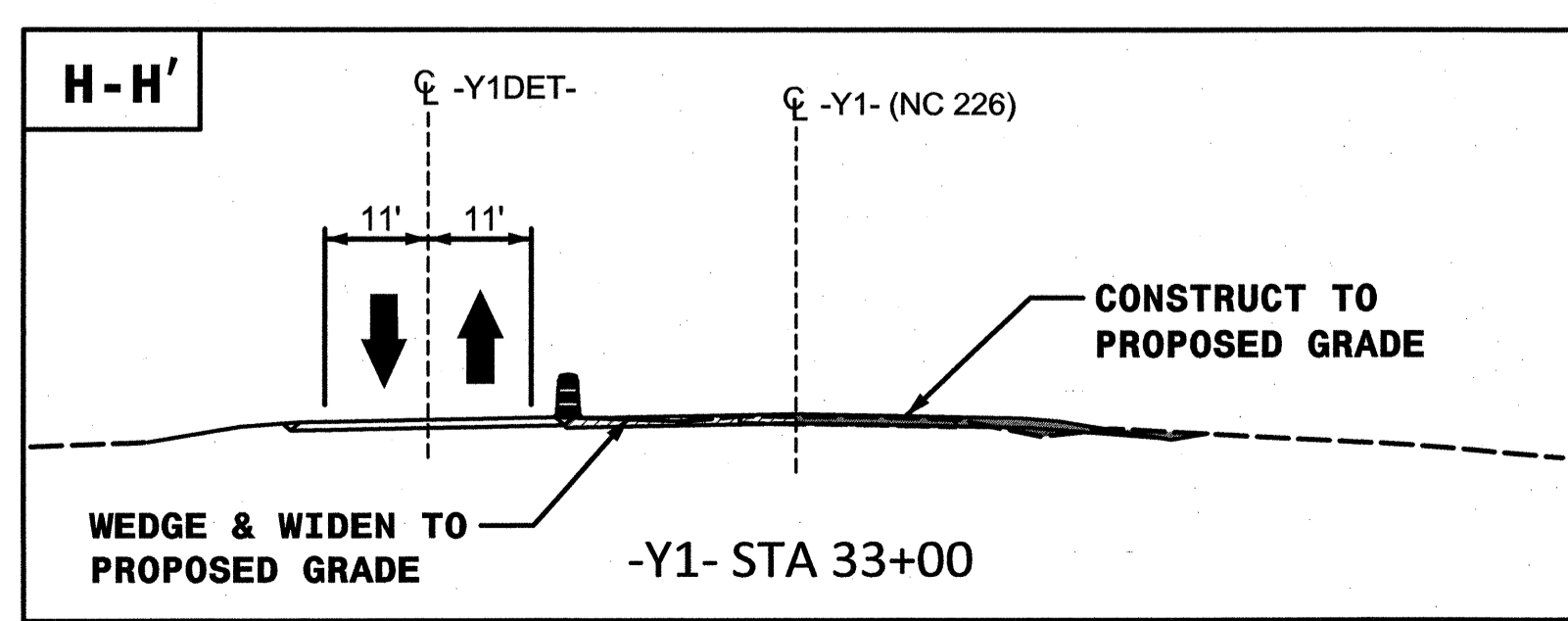
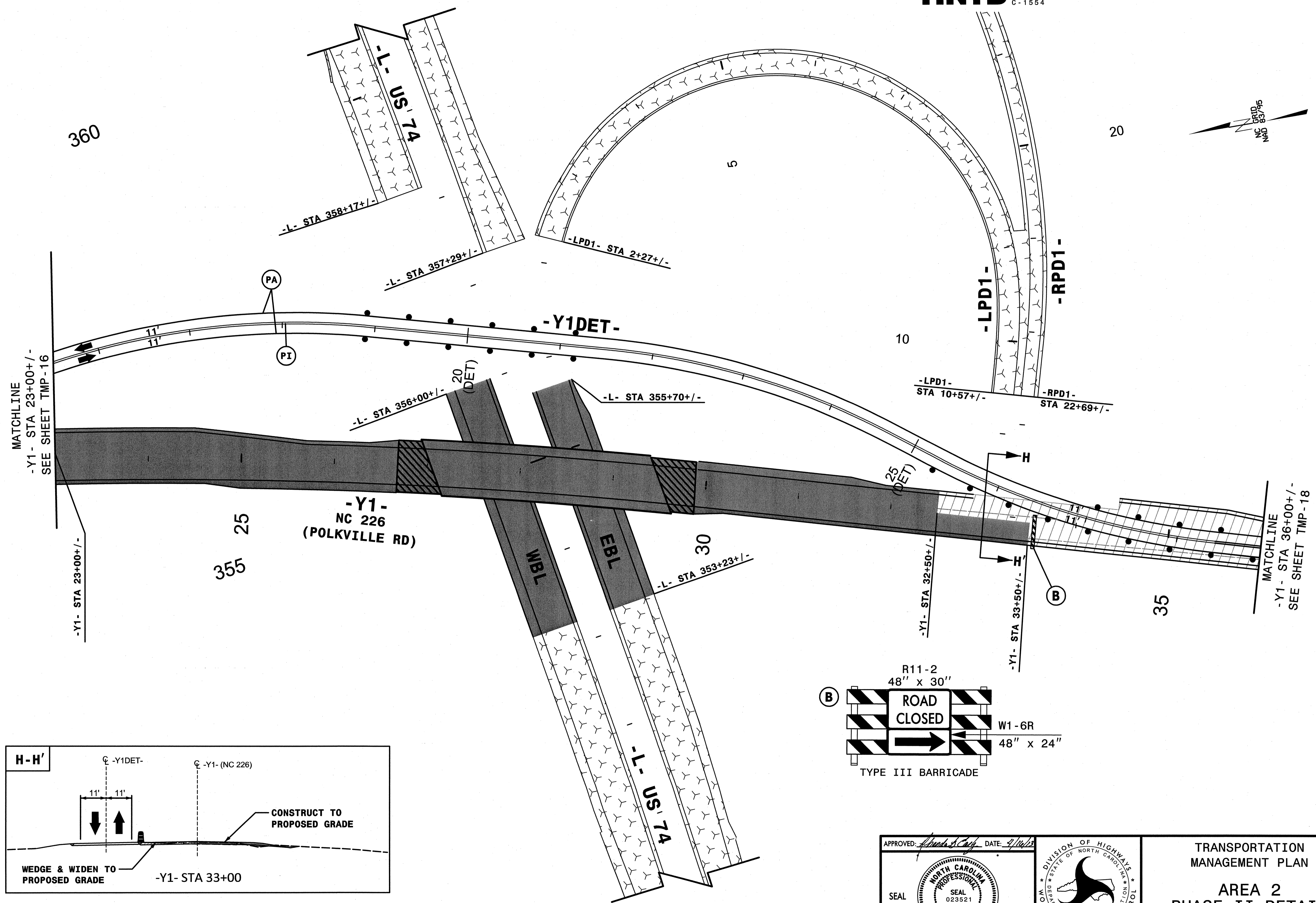
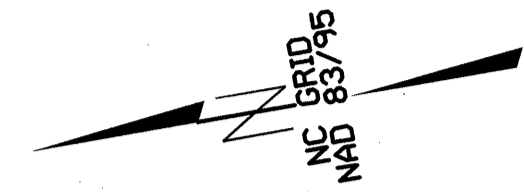
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TRANSPORTATION
 MANAGEMENT PLAN

**AREA 1
 PHASE II DETAIL**

SHEET 3 OF 3

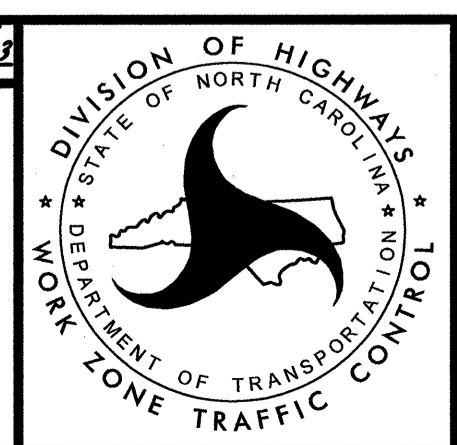


REVISIONS

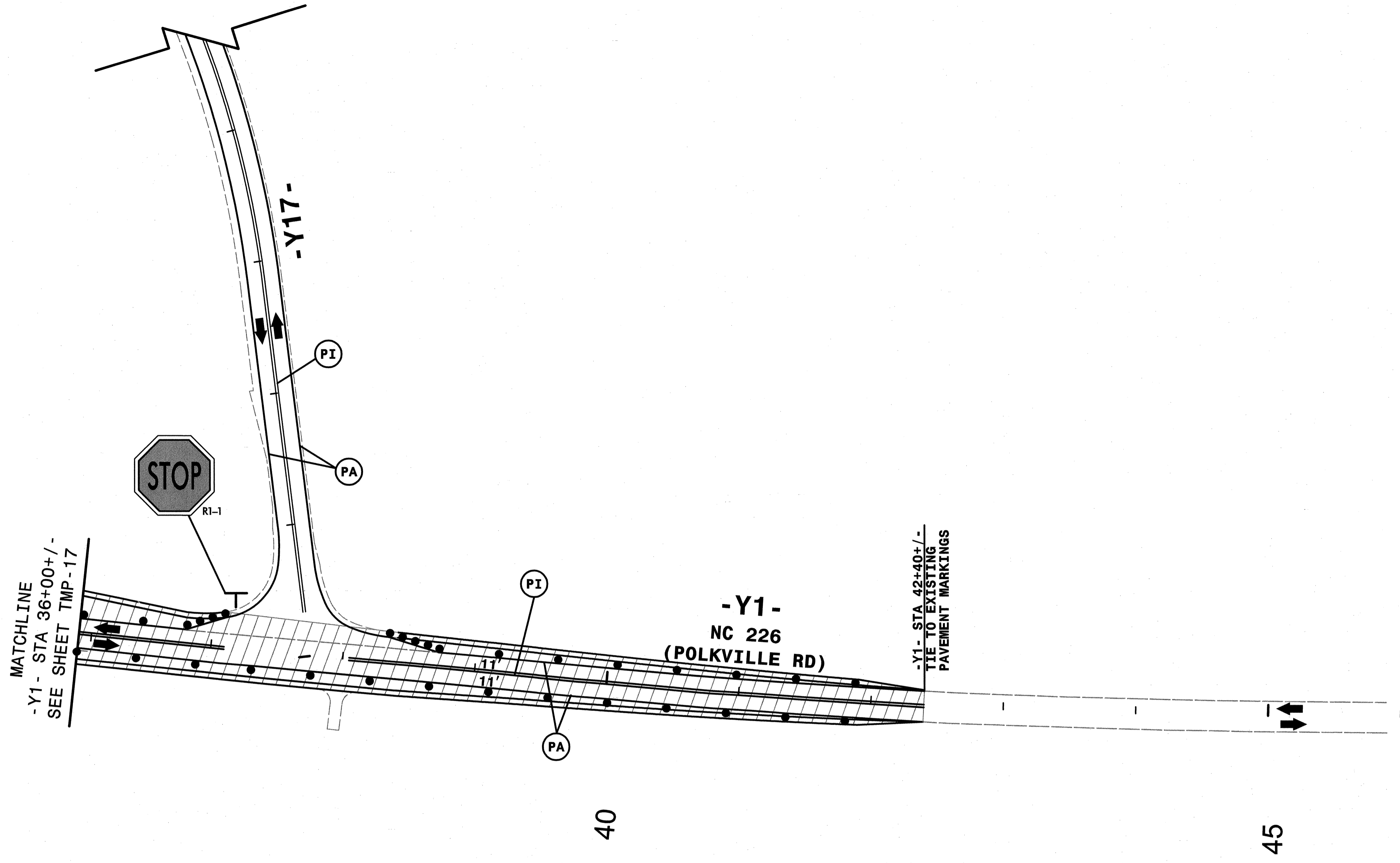
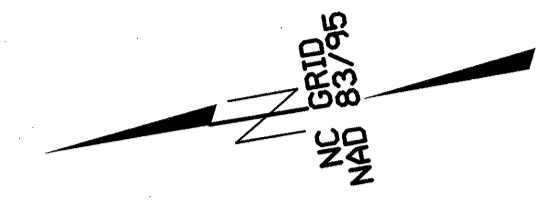
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 SEAL 023521
 PRIONA B. EARLY



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 AREA 2
 PHASE II DETAIL
 SHEET 2 OF 3



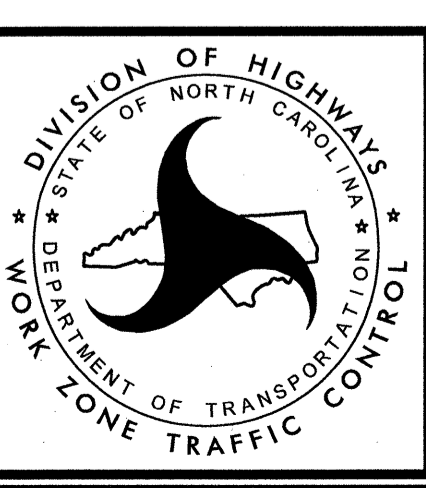
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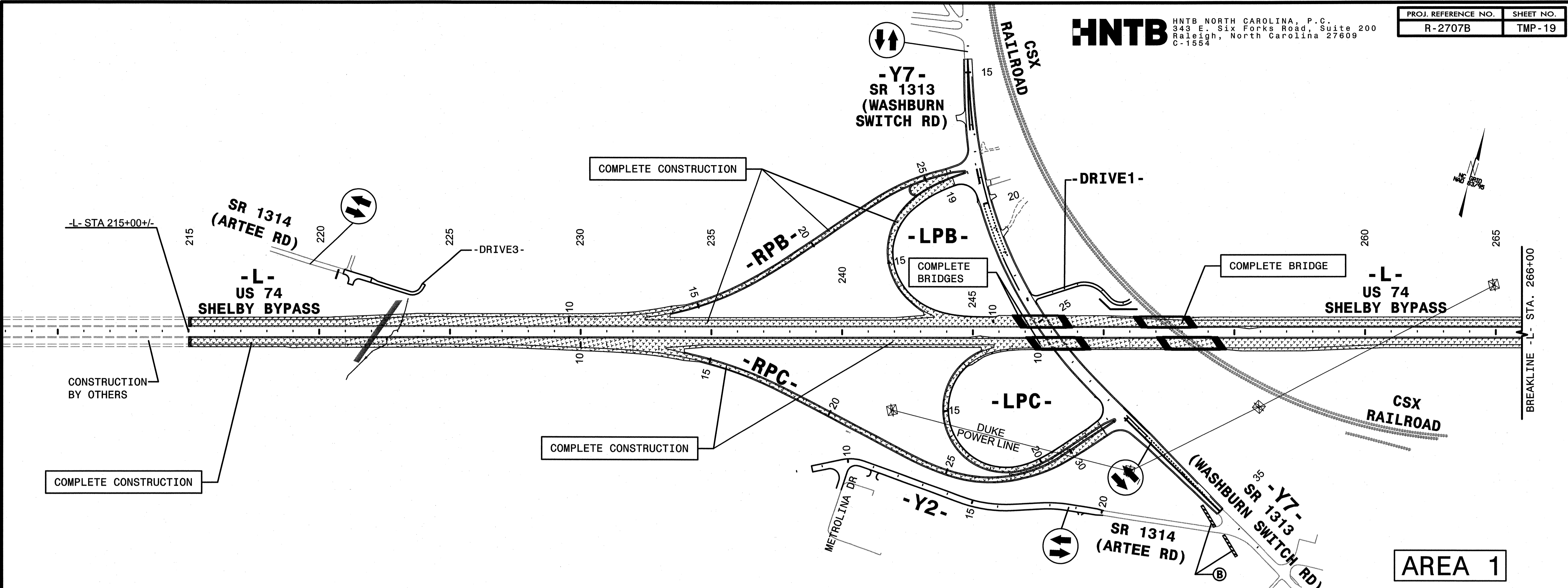
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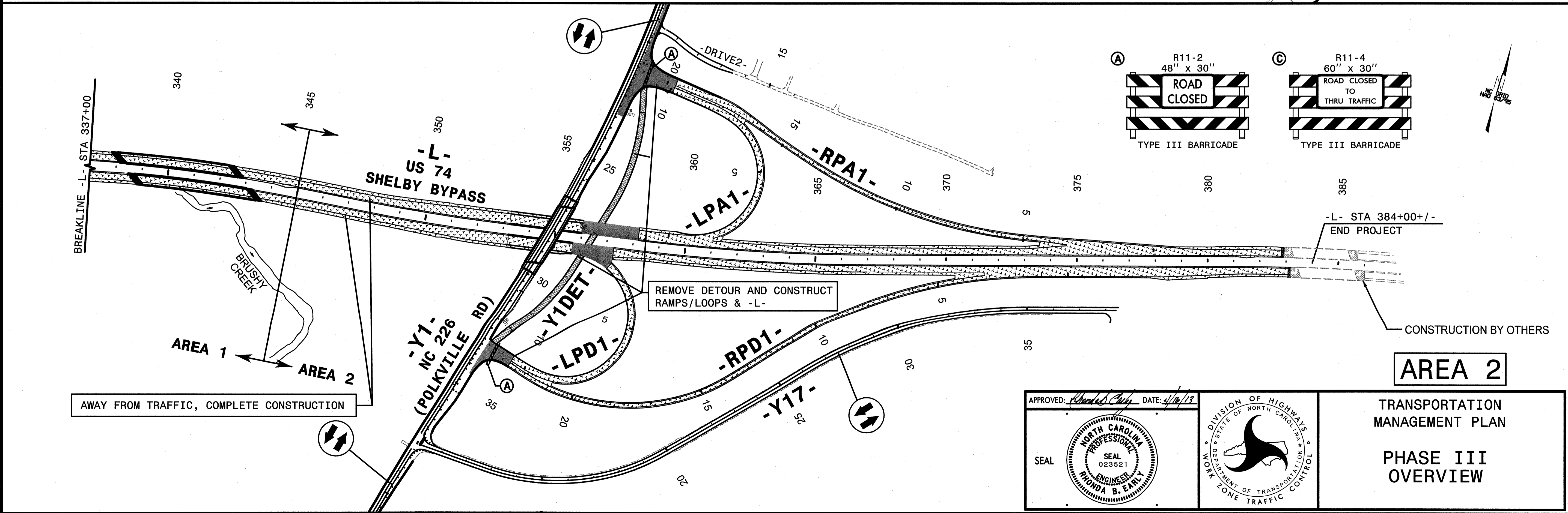
TRANSPORTATION
 MANAGEMENT PLAN

**AREA 2
 PHASE II DETAIL**

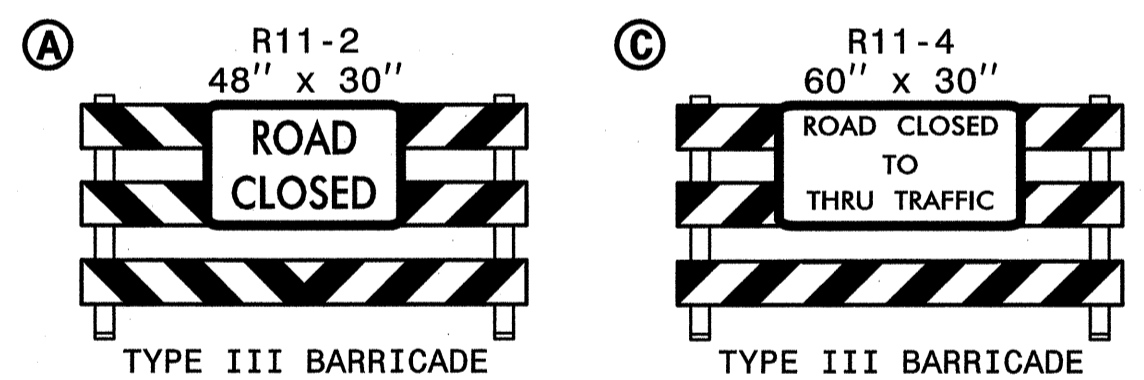
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AREA 1



AREA 2



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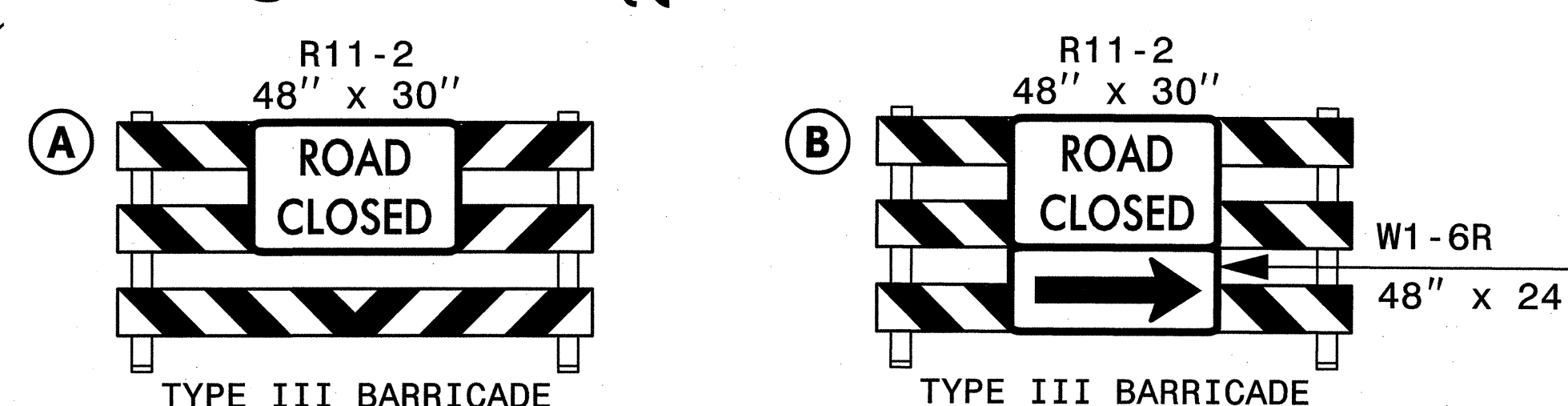
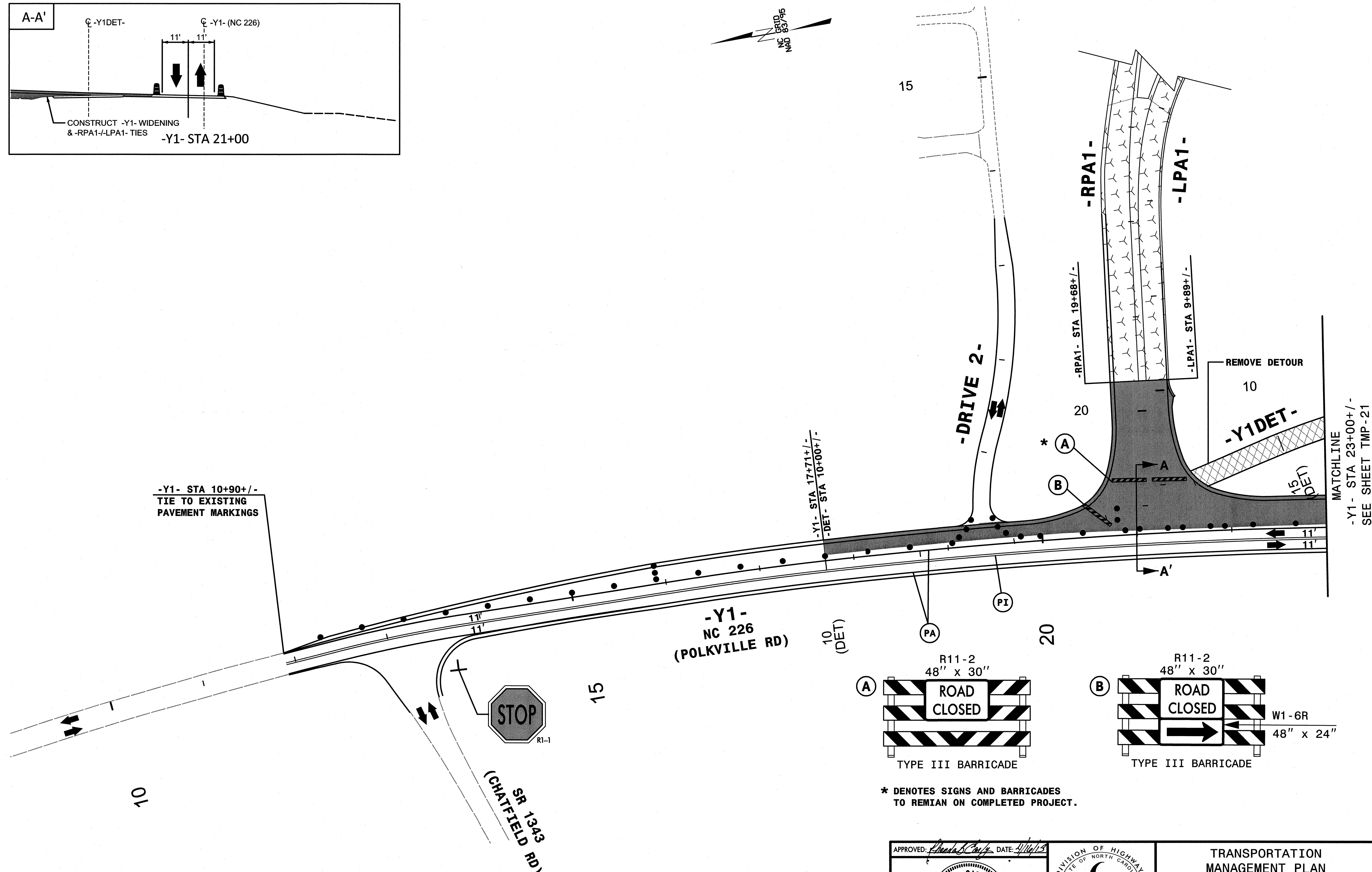
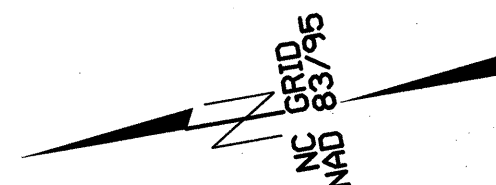
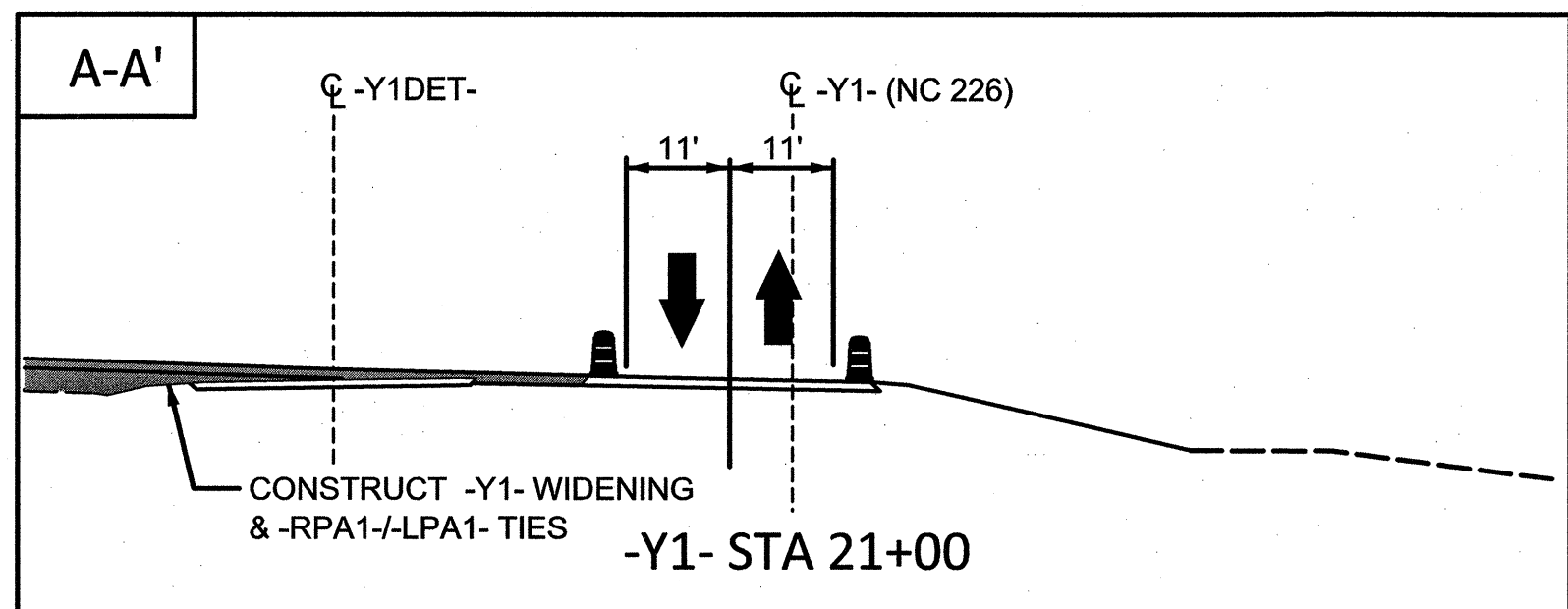
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 PHASE III OVERVIEW



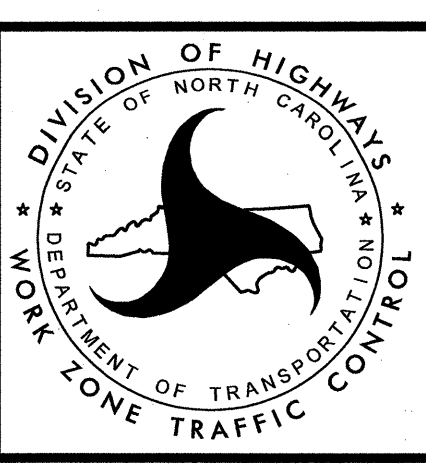
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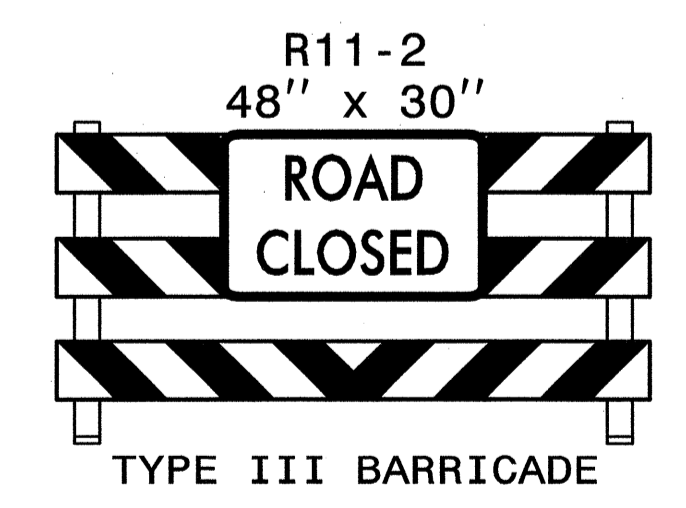
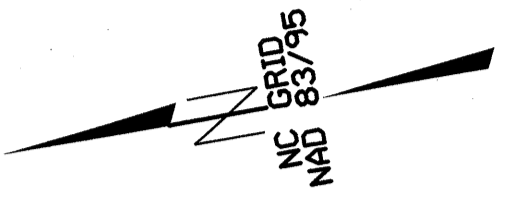
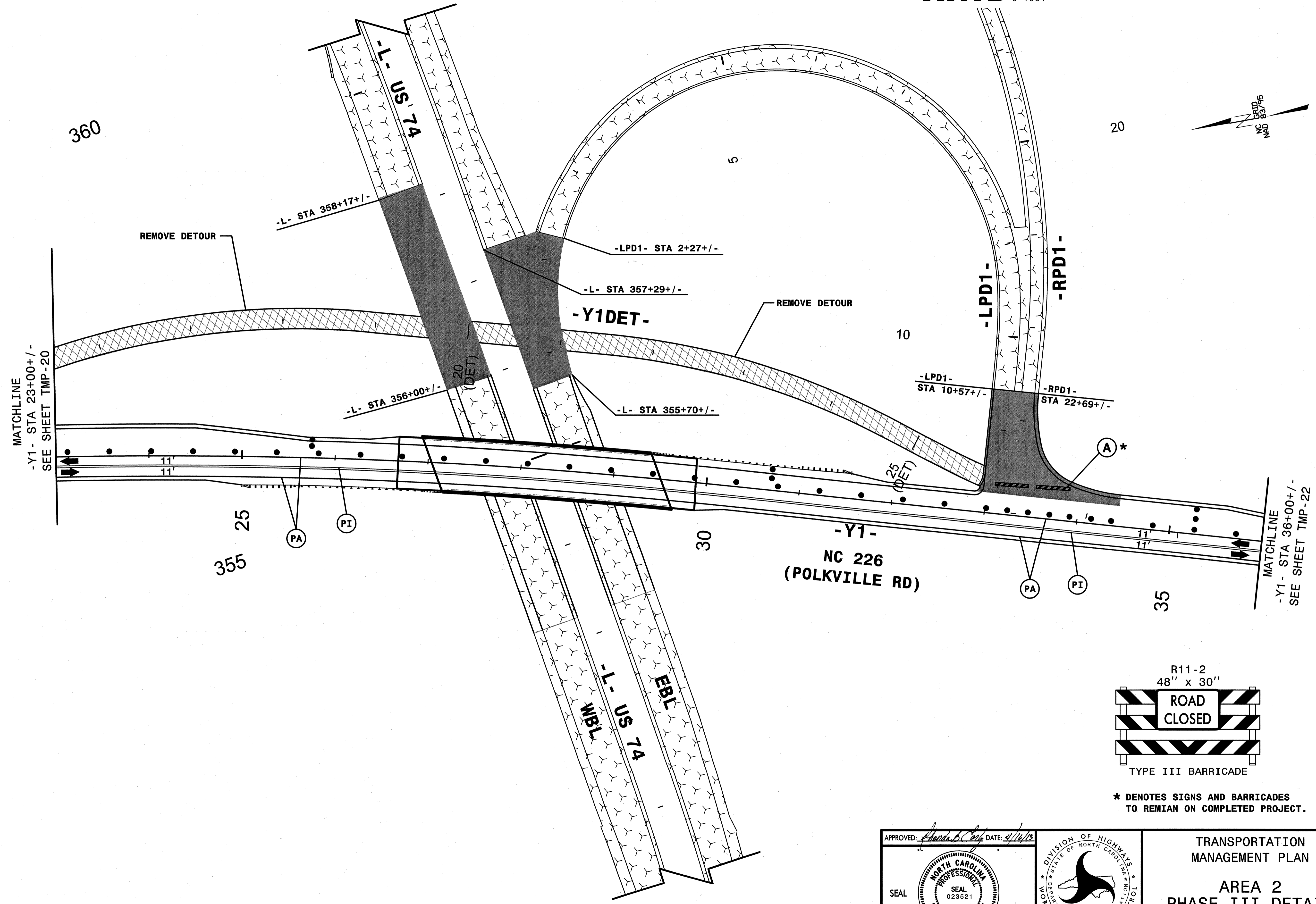
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 AREA 2
 PHASE III DETAIL
 SHEET 1 OF 3



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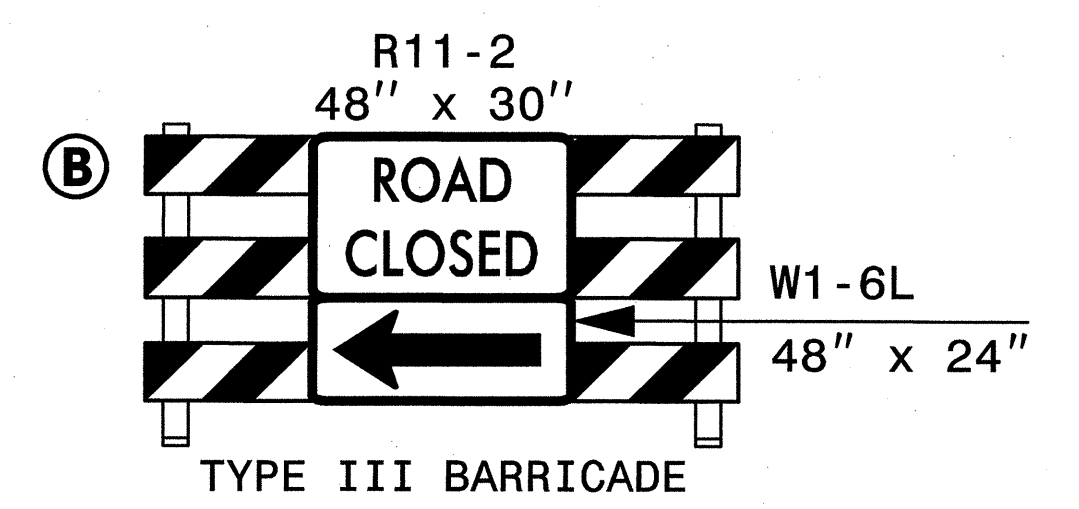
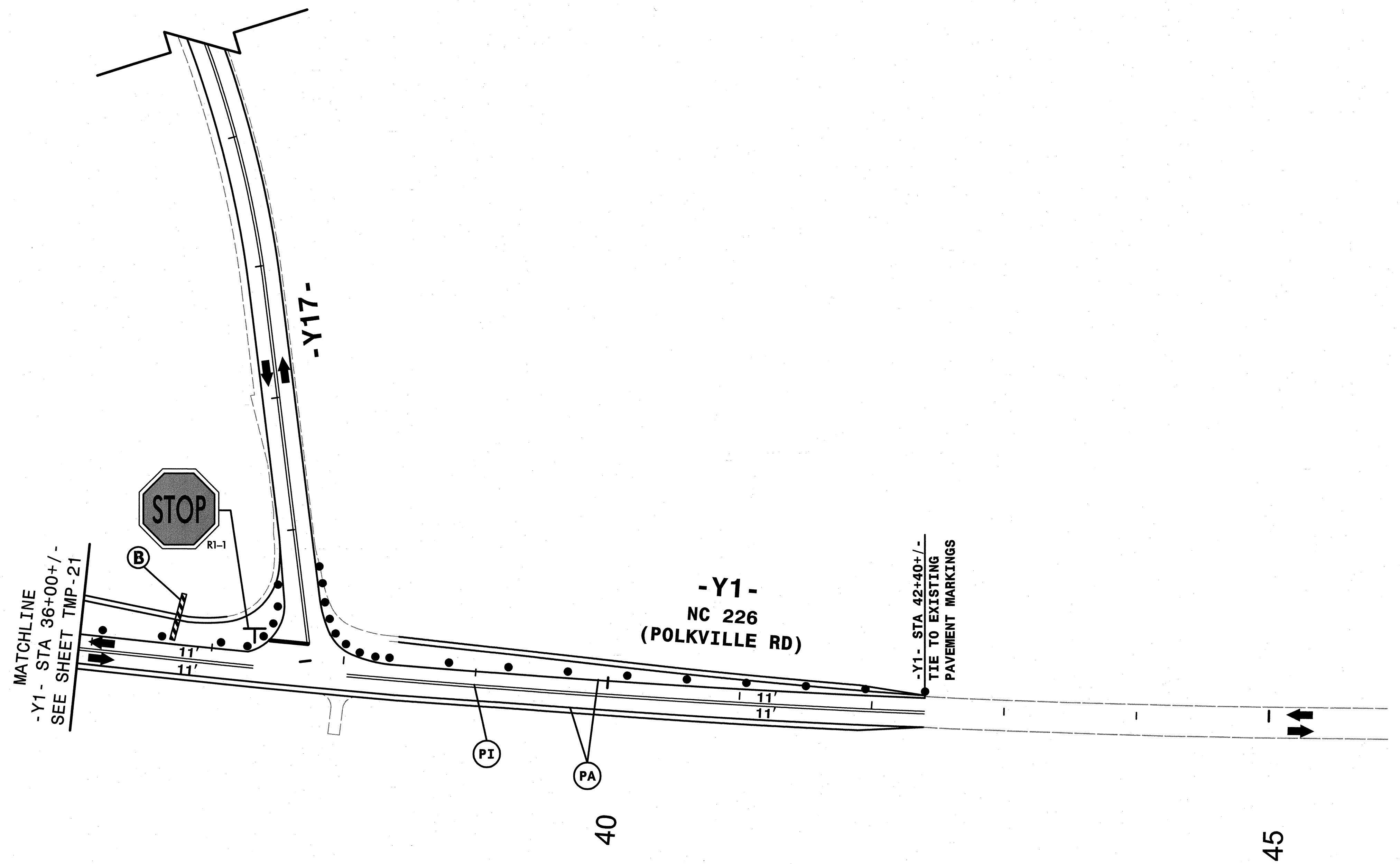
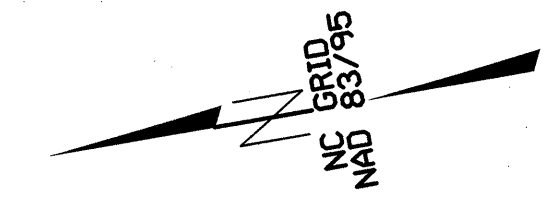
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TRANSPORTATION
MANAGEMENT PLAN

AREA 2
PHASE III DETAIL

SHEET 2 OF 3

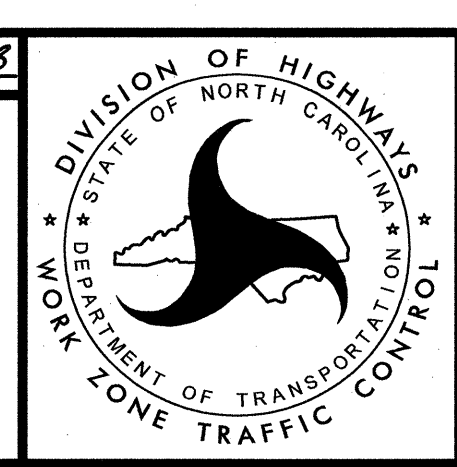


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**AREA 2
PHASE III DETAIL**

SHEET 3 OF 3