

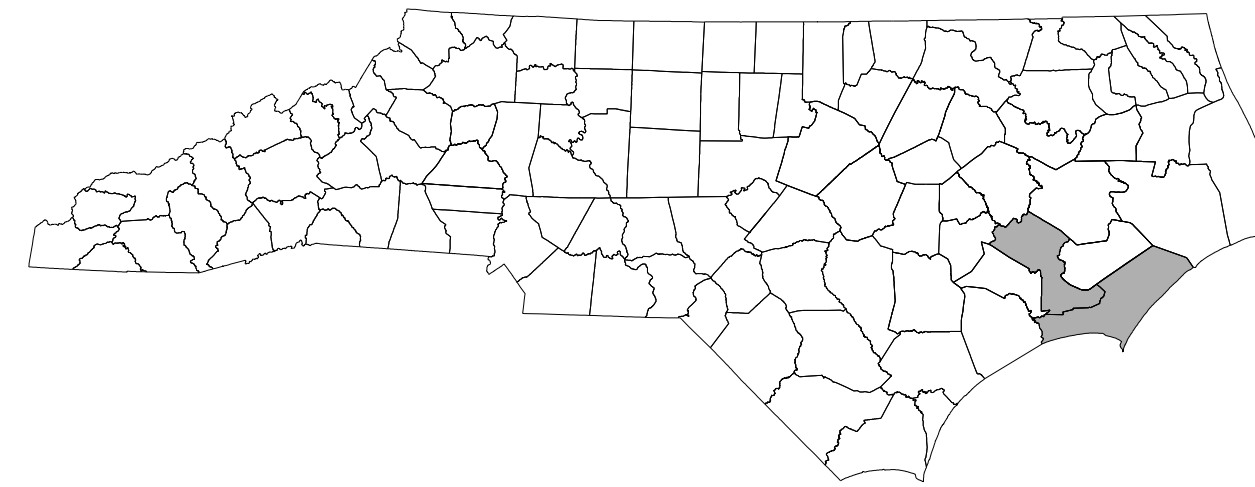
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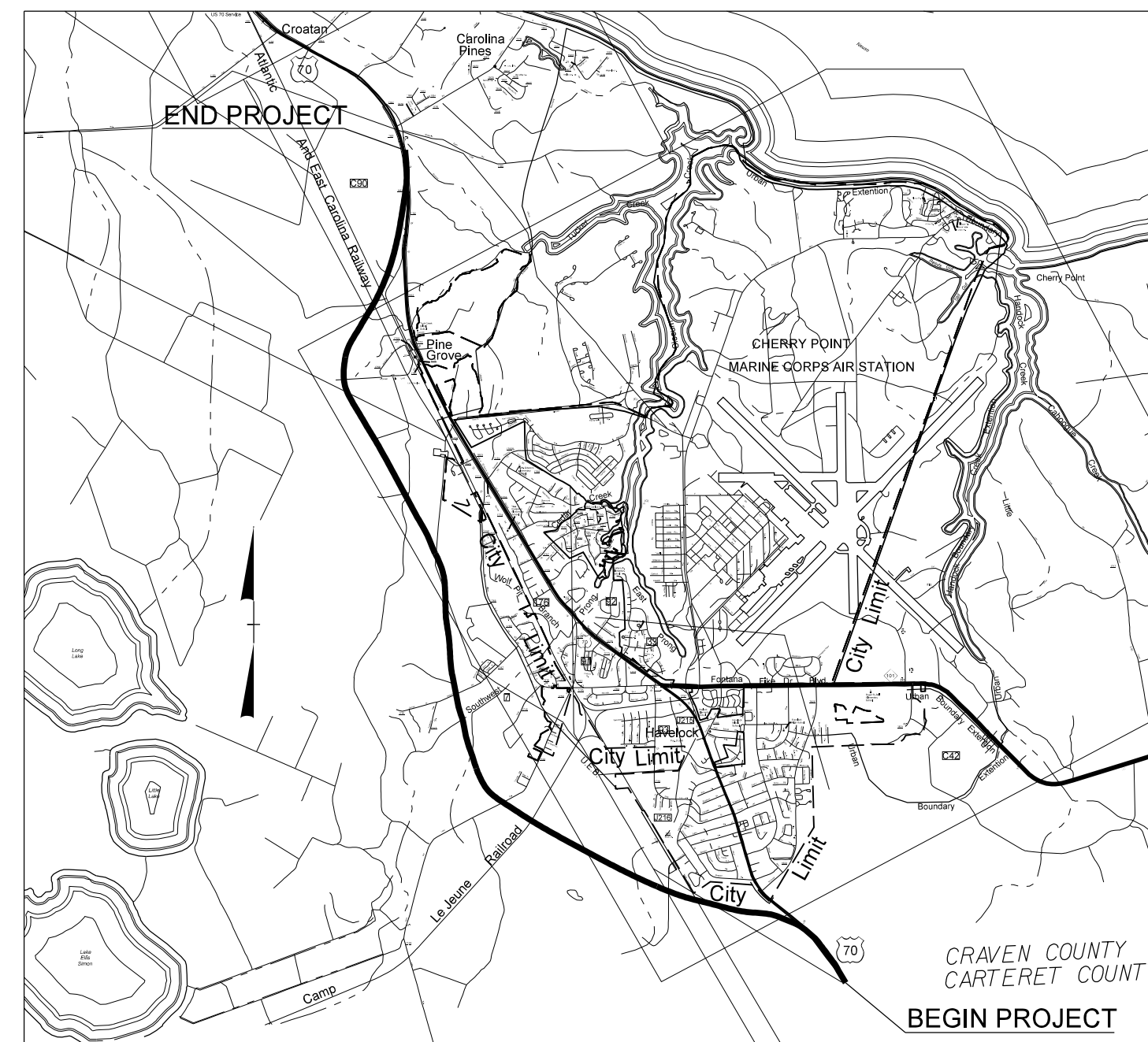
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN
CRAVEN AND CARTERET COUNTIES



LOCATION: US 70 (HAVELOCK BYPASS) FROM SOUTH OF CARTERET/CRAVEN COUNTY LINE TO SOUTH OF SR 1176 (CAROLINA PINES BLVD.)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, WIDENING, CULVERTS AND STRUCTURES



VICINITY MAP

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-2-2A	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2B	DMS INSTALLATION TYPICAL
TMP-2C	SHORING NOTES
TMP-3-3A	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4-5	PROJECT LAYOUT
TMP-6-17	AREA 2
TMP-18-23	AREA 3
TMP-24-26	AREA 4
TMP-27-42	AREA 5

PLAN PREPARED BY:

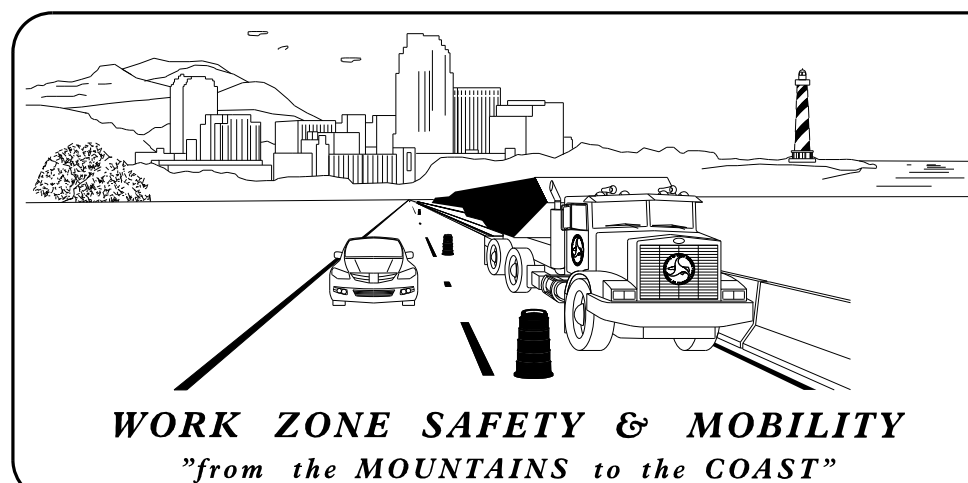
HR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

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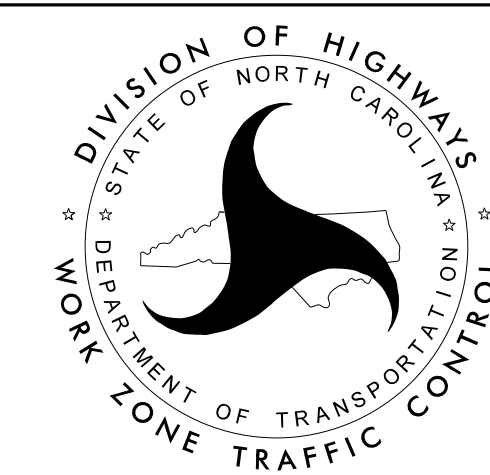
APPROVED: *Ben Schoenbauer*
DATE: 12/17/2018

SEAL



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)
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TRAFFIC CONTROL DESIGN ENGINEER



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ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	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	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	POSITIVE PROTECTION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

LEGEND

GENERAL

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

- WORK AREA
- CONTINUING CONSTRUCTION
- REMOVAL
- WEDGING
- TEMPORARY PAVEMENT

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TEMPORARY PAVEMENT MARKING

- | | |
|--------------------------------------|--------------------------------|
| PAINT (4") | PAINT (24") |
| PA WHITE EDGELINE | P2 WHITE STOPBAR |
| PI YELLOW DOUBLE CENTER | |
| PAINT (6") | SYMBOLS |
| P6 WHITE EDGELINE | QA LEFT TURN ARROW |
| P7 YELLOW EDGELINE | QC STRAIGHT ARROW |
| P11 2 FT. -6 FT. /SP. WHITE MINISKIP | QE COMBO. RIGHT/STRAIGHT ARROW |
| PJ 10 FT. WHITE SKIP | |
| PK 3 FT. -9 FT. /SP. WHITE MINISKIP | |
| PL WHITE SOLID LANE LINE | |

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

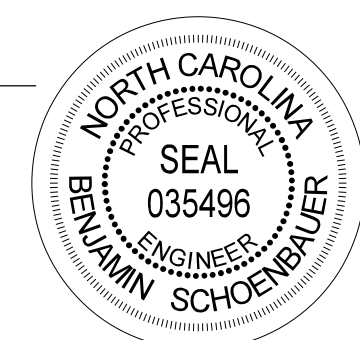

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

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APPROVED: <i>Ben Schenbauer</i> DATE: 12/4/2018 		ROADWAY STANDARD DRAWINGS & LEGEND
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PROJECT NOTES

- 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) 500 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.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
US 70	PAINT	TEMPORARY RAISED
-Y- LINES	PAINT	TEMPORARY RAISED

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

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

MISCELLANEOUS

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

- Z) 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) 500 FT AND 500 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

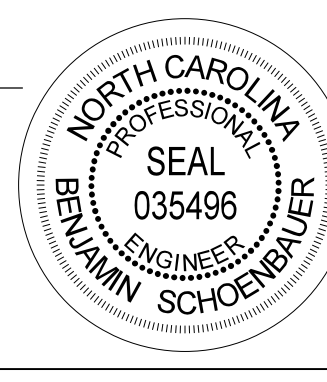
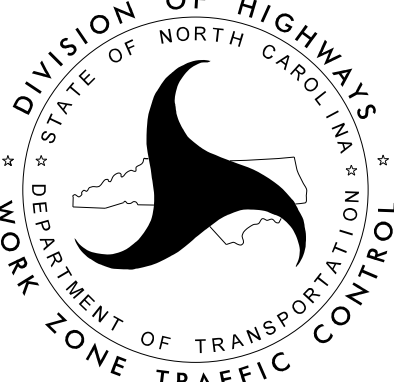
- AA) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).


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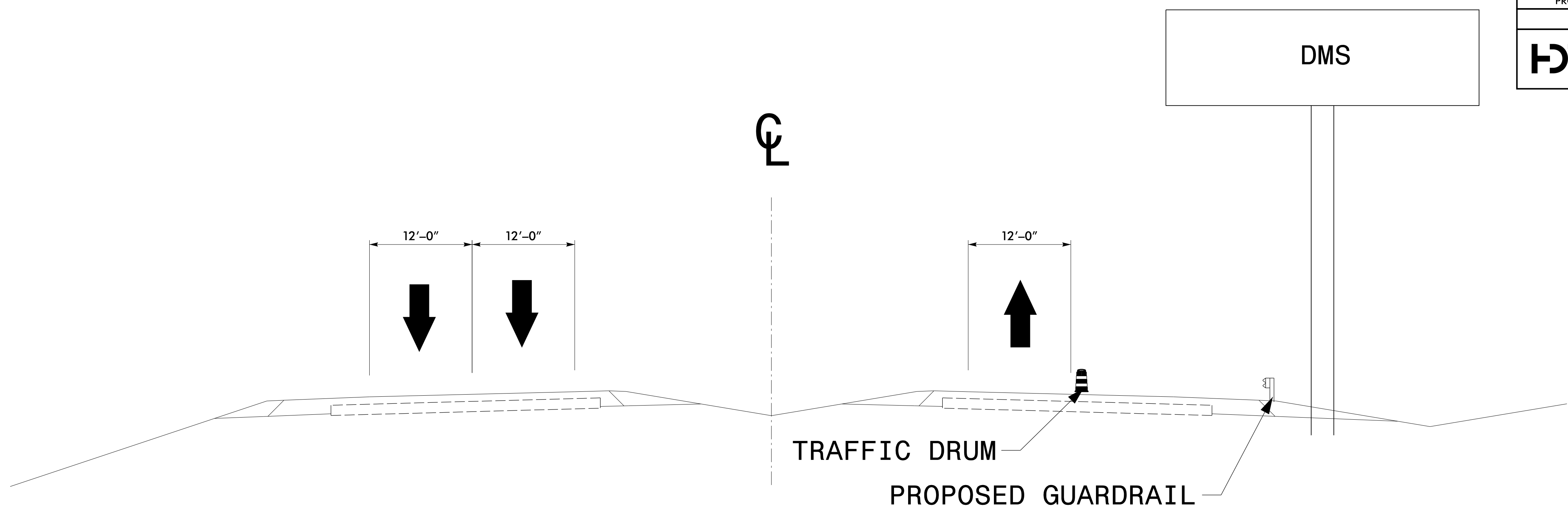
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REVISIONS

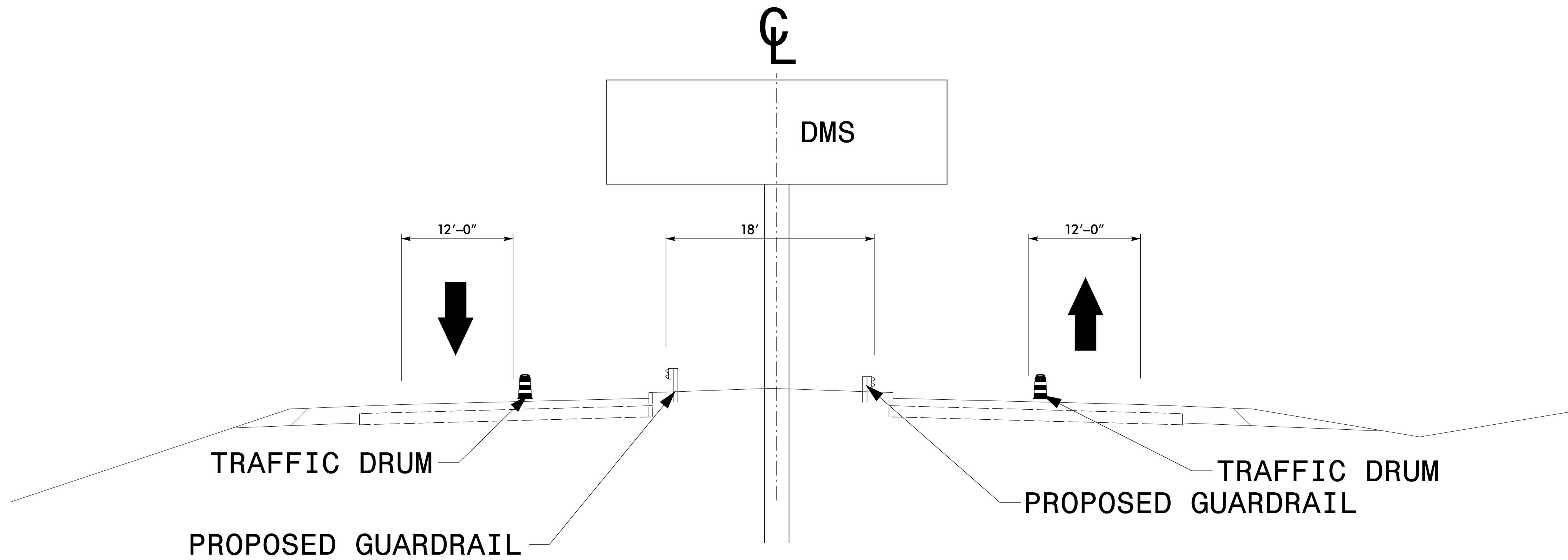
12/17/2018: REVISED GENERAL NOTES

APPROVED: <i>Ben Schoenberger</i> DATE: 12/17/2018			<h2>PROJECT NOTES (SHEET 2 OF 2)</h2>
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PROJ. REFERENCE NO. R-1015	SHEET NO. TMP-2A
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-01116	



NOTE:
 USE RSD 1101.02 SHEET 3 OF 14, AND 1101.04 SHEET 1 OF 1 AS NECESSARY TO
 CLOSE THE RIGHT LANE AND SHOULDER FOR DMS AND GUARDRAIL CONSTRUCTION
 (SEE GENERAL NOTES FOR LANE CLOSURE RESTRICTIONS).

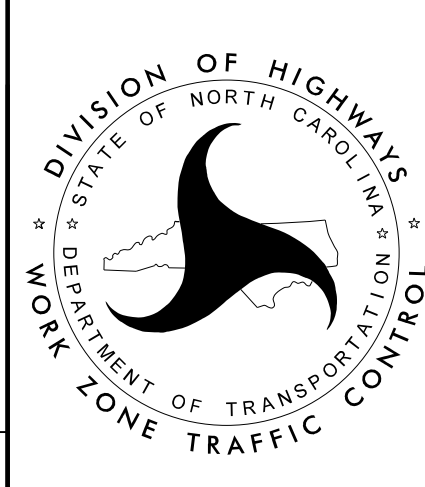
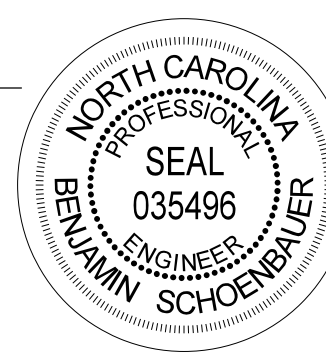


NOTE:
 USE RSD 1101.02 SHEET 3 OF 14, AND 1101.04 SHEET 1 OF 1 AS NECESSARY TO
 CLOSE THE RIGHT LANE AND SHOULDER FOR DMS AND GUARDRAIL CONSTRUCTION
 (SEE GENERAL NOTES FOR LANE CLOSURE RESTRICTIONS).

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REVISIONS

APPROVED: *Ben Schoenbauer*
 DATE: 12/4/2018



**DMS
 INSTALLATION
 TYPICAL**

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R - 1015	TMP - 3A

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555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

PHASING CONTINUED

AREA 4

-Y4-, -Y4DET-, AND -Y4DR-

PHASE 1

STEP 1:
AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF -Y4DET-, -Y4DR-, AND TEMPORARY SHORING (SEE SHEET TMP-24). USING RSD 1101.02 SHEET 1 OF 14 CONSTRUCT THE PROPOSED RIGHT SHOULDER FROM -Y4- STA. 33+34 TO 37+00 (TEMPORARY PAVEMENT REQUIRED) AND TEMPORARY SIGNAL.

STEP 2A:
UPON COMPLETION OF SHOULDER AND TEMPORARY SIGNAL, PLACE TEMPORARY PAVEMENT MARKINGS, REMOVE ANY CONFLICTING PAVEMENT MARKINGS, SHIFT TRAFFIC TO STEP 2 PATTERN, AND ACTIVATE TEMPORARY SIGNAL, THEN PLACE PCB, ANCHORED PCB (SEE SHEET TMP-24A, SIGNALIZATION PLANS, AND RSD 1101.02 SHEET 14 OF 14).

STEP 2B:
USING RSD 1101.02 SHEET 1 OF 14, AS NECESSARY, INSTALL TEMPORARY SHORING #3, THEN PARTIALLY REMOVE EXISTING PIPE, PARTIALLY CONSTRUCT PROPOSED PIPE, AND INSTALL TEMPORARY SHORING #4 AND CONSTRUCT PROPOSED PAVEMENT UP TO, BUT NOT INCLUDING, FINAL SURFACE LAYER (SEE SHEET TMP-24A).

STEP 3A:
USING RSD 1101.02 SHEET 1 OF 14, AS NECESSARY, RELOCATE PCB, SHIFT TRAFFIC TO STEP 3 PATTERN, PLACE TEMPORARY PAVEMENT MARKINGS AND REMOVE ANY CONFLICTING PAVEMENT MARKINGS.

STEP 3B:
USING RSD 1101.02 SHEET 1 OF 14, AS NECESSARY, COMPLETE REMOVAL OF EXISTING PIPE, CONSTRUCTION OF PROPOSED PIPE, AND CONSTRUCT PROPOSED PAVEMENT UP TO, BUT NOT INCLUDING, FINAL SURFACE LAYER (SEE SHEET TMP-24B).

STEP 4:
UPON COMPLETION OF -Y4- DETOUR AND -Y4DR-, USE RSD 1101.02 SHEET 1 OF 14, AS NECESSARY, CONSTRUCT THE TIE-INS TO -Y4DET-.

PHASE 2

STEP 1:
USING RSD 1101.02 SHEET 1 OF 14, AS NECESSARY, SHIFT TRAFFIC FROM EXISTING TO -Y4DET-.

STEP 2:
CONSTRUCT -Y4-, PROPOSED STRUCTURE AND TEMPORARY SHORING (SEE SHEET TMP-25).

PHASE 3

STEP 1:
USING RSD 1101.02 SHEET 1 OF 14 SHIFT TRAFFIC FROM -Y4DET- ONTO -Y4- (SEE SHEET TMP-26). AWAY FROM TRAFFIC REMOVE -Y4DET- AND COMPLETE ALL REMAINING CONSTRUCTION.

STEP 2:
USING RSD 1101.02 SHEET 1 OF 14, CONSTRUCT THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS.

AREA 5

-L- FROM STA. 529+00± TO STA. 579+18±, -RP2AC-, -RP2A-, -RP2CD-, -SR1162-, -SRVRD-, AND -SERVEXT-

PHASE 1

STEP 1:
AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF -L-, -RP2AC-, -RP2A-, AND -SERVEXT-. USING RSD 1101.02 SHEETS 3 AND 5 OF 15 AND RSD 1101.04 SHEET 1 OF 1, AS NECESSARY, PLACE TEMPORARY PAVEMENT FROM -RP2CD- STA. 6+79± TO -RP2CD- STA. 12+25±, -RP2CD- STA. 12+92± TO -RP2CD- STA. 20+34±, -RP2AC- STA. 45+00± TO -RP2AC- STA. 57+73±, -L- STA. 546+50± TO -L- STA. 554+53±, -L- STA. 558+43± TO -L- STA. 559+46±, -L- STA. 559+97± TO -L- STA. 561+00±, -L- STA. 581+24± TO -L- STA. 582+29±, AND -L- 582+69± TO -L- STA. 583+33± (SEE SHEETS TMP-27 THRU TMP-30).

STEP 2:
USING RSD 1101.03 SHEET 6 OF 9, AS NECESSARY, INSTALL ALL PIPE CROSSINGS WITHIN CROSS-OVER AREA.

STEP 3:
USING RSD 1101.03 SHEETS 1 AND 2 OF 9 CLOSE AND DETOUR -SR1162-. CONSTRUCT -SR1162- AND STRUCTURE, AND -SRVRD-. USING RSD 1101.02 SHEETS 3 AND 5 OF 15 AND LAW ENFORCEMENT, AS NECESSARY, SHIFT SOUTHBOUND US 70 TRAFFIC ONTO TEMPORARY PAVEMENT (SEE SHEET TMP-27). CONTINUE CONSTRUCTION OF -L-, -RP2AC-, AND -RP2A-.

PHASE 2

STEP 1:
REOPEN -SR1162-. USING RSD 1101.02 SHEETS 3 AND 5 OF 14 AND LAW ENFORCEMENT, AS NECESSARY, PLACE TEMPORARY PAVEMENT MARKINGS AND SHIFT SOUTHBOUND US 70 TRAFFIC ONTO -RP2A- AND -RP2AC-.

STEP 2:
WITH SOUTHBOUND US 70 TRAFFIC SHIFTED ONTO NEW ALIGNMENT SHIFT NORTHBOUND US 70 TRAFFIC ONTO EXISTING US 70 SOUTHBOUND USING RSD 1101.02 SHEETS 3 AND 5 OF 14 (SEE SHEETS TMP-31 THRU TMP-34). WITH NB US 70 TRAFFIC SHIFTED BEGIN CONSTRUCTION OF -L- AND -RP2CD- (SEE SHEETS TMP-32 THRU TMP-33).

PHASE 3

STEP 1:
USING LANE CLOSURES AND LAW ENFORCEMENT, AS NECESSARY, SHIFT NORTHBOUND US 70 TRAFFIC ONTO THE PARTIALLY CONSTRUCTED -RP2CD-/-L-.

STEP 2:
USING RSD 1101.02 SHEETS 3 AND 5 OF 14 AND RSD 1101.04 SHEET 1 OF 1, AS NECESSARY BEGIN CONSTRUCTION OF REMAINING -RP2CD- AND -L- AND REMOVE TEMPORARY PAVEMENT (SEE SHEETS TMP-35-38).

PHASE 4

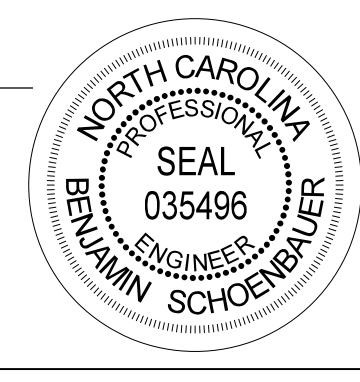

STEP 1:
USING RSD 1101.02 SHEETS 3 AND 5 OF 14 AND LAW ENFORCEMENT, AS NECESSARY, SHIFT NB TRAFFIC TO -RP2CD AND -L- (SEE SHEETS TMP-39-42).

STEP 2:
USING RSD 1102.02 SHEETS 3 AND 5 OF 14, AS NECESSARY, COMPLETE ALL REMAINING CONSTRUCTION, PLACE THE FINAL LAYER OF SURFACE COURSE, AND FINAL PAVEMENT MARKINGS.

REVISIONS

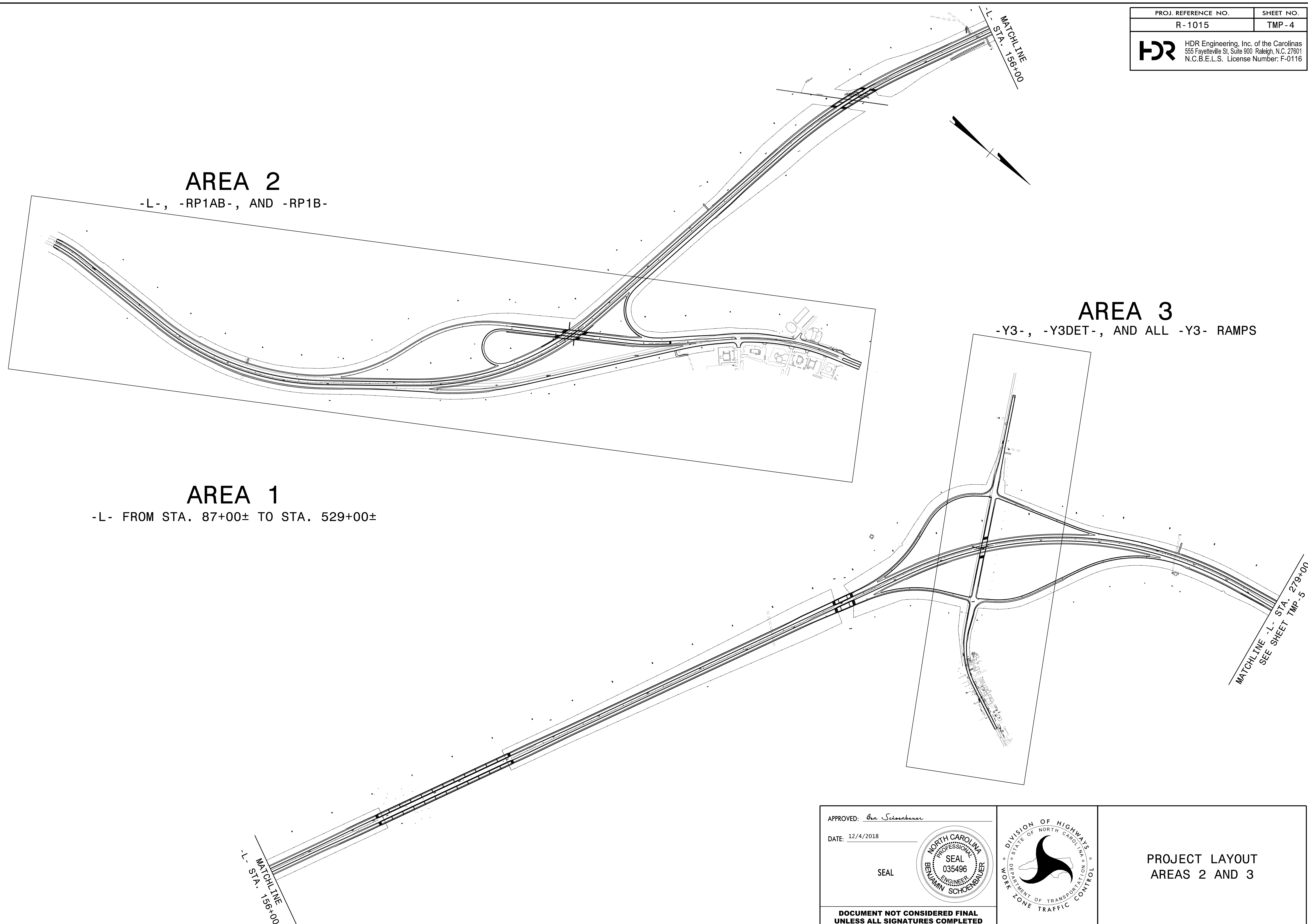
05/09/2019: REVISED AREA 4 PHASING FOR CONSTRUCTION OF 72 INCH PIPE
05/21/2019: REVISED AREA 4 PHASE 1, STEP 2A AND 2B

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APPROVED: <i>Ben Schoenberger</i> DATE: 5/21/2019 SEAL			TEMPORARY TRAFFIC CONTROL PHASING
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PROJ. REFERENCE NO.	SHEET NO.
R-1015	TMP-4

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N.C.B.E.L.S. License Number: F-0116

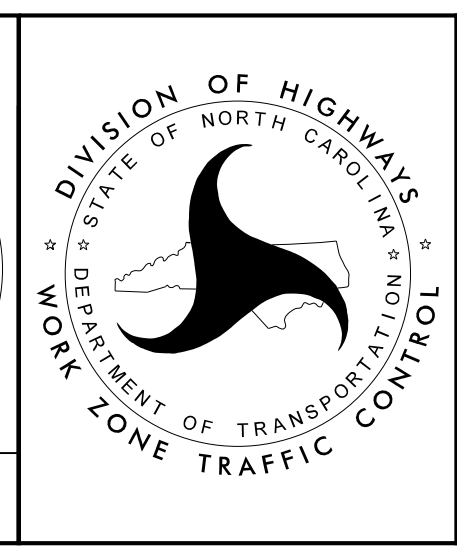


REVISIONS


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APPROVED: *Ben Schoenberger*
DATE: 12/4/2018
SEAL

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



PROJECT LAYOUT
AREAS 2 AND 3

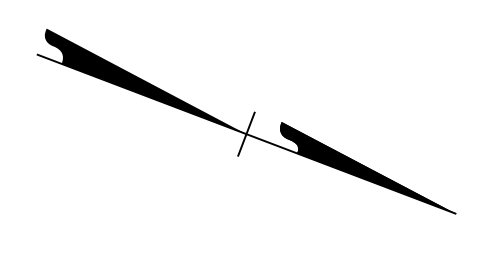
PROJ. REFERENCE NO.	SHEET NO.
R-1015	TMP-5
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

MATCHLINE -L- STA. 279+00
SEE SHEET TMP-4

AREA 4

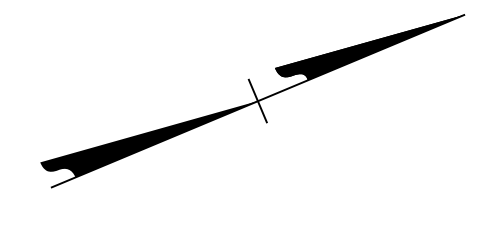
-Y4-, -Y4DET-, AND -Y4DR-

MATCHLINE -L- STA. 419+00



AREA 5

-L-, -RP2AC-, -RP2CD-,
-SR116-, -SRVRD-, -SERVEXT-

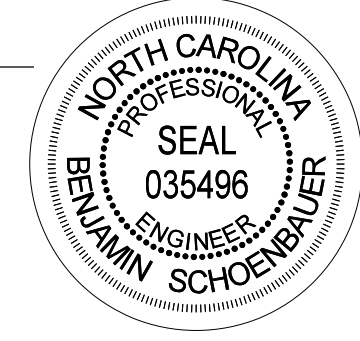


MATCHLINE -L- STA. 419+00

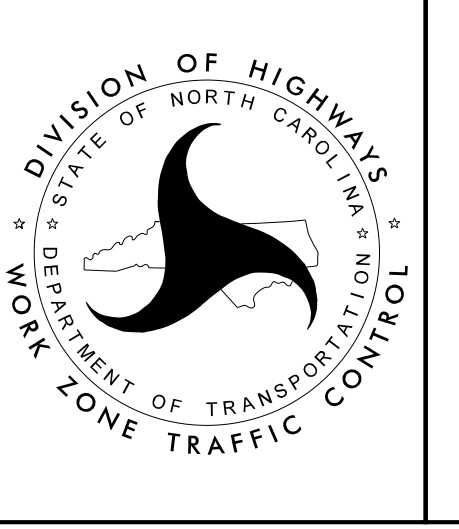
APPROVED: *Ben Schoenberger*

DATE: 12/4/2018

SEAL




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UNLESS ALL SIGNATURES COMPLETED**



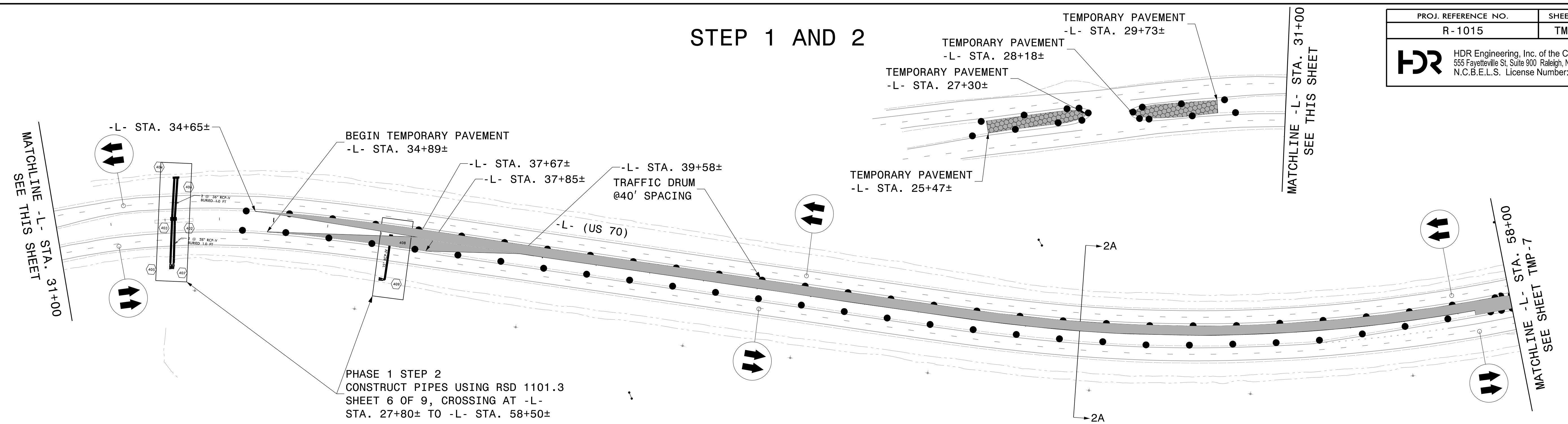
**PROJECT LAYOUT
AREAS 4 AND 5**

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 USER: JWILES DATE: 12/4/2018 TIME: 11:42:29 AM
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REVISIONS

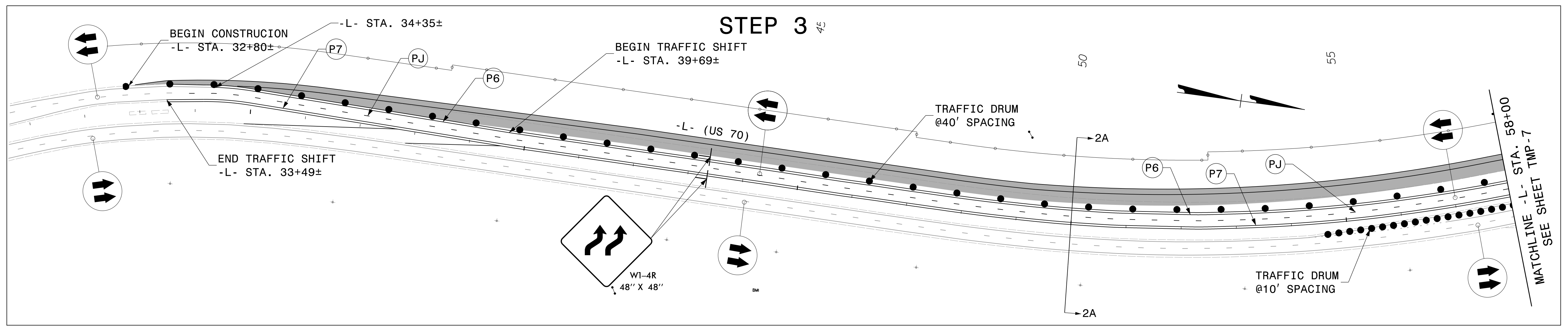
PROJ. REFERENCE NO. R-1015	SHEET NO. TMP-6
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

STEP 1 AND 2



PHASE 1 STEP 2
 CONSTRUCT PIPES USING RSD 1101.3
 SHEET 6 OF 9, CROSSING AT -L-
 STA. 27+80± TO -L- STA. 58+50±

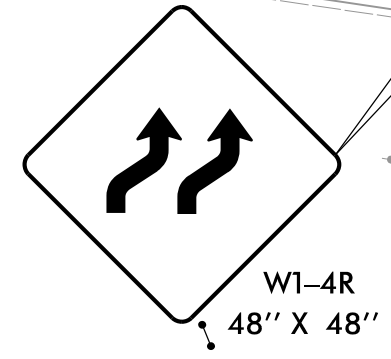
STEP 3



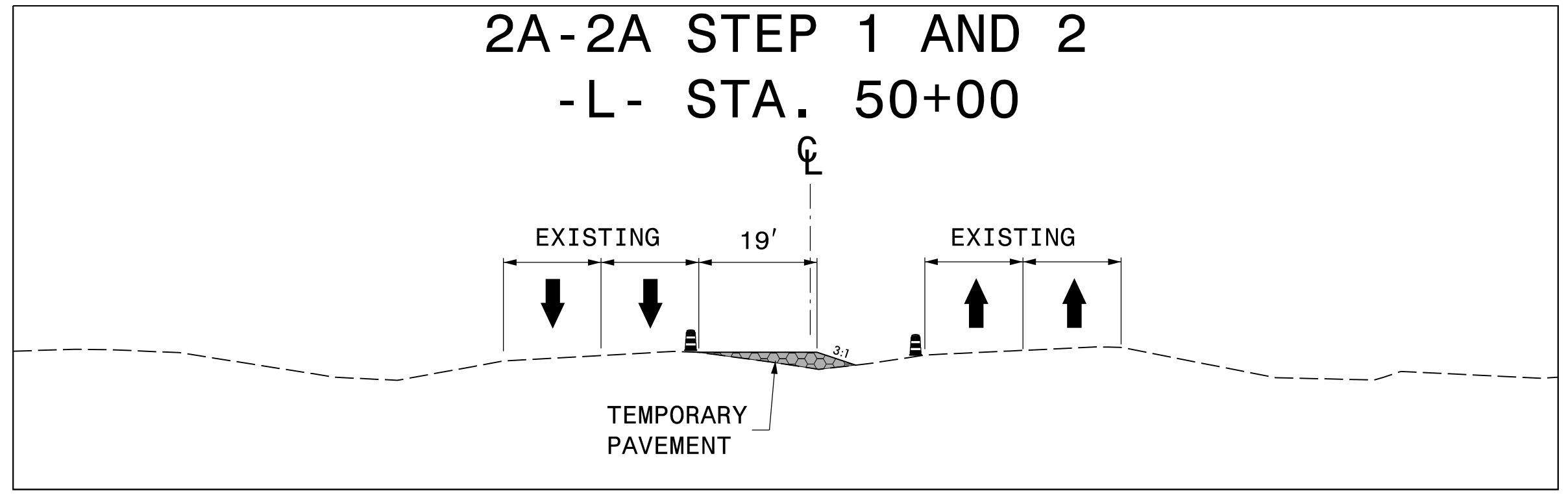
BEGIN CONSTRUCTION
 -L- STA. 32+80±

BEGIN TRAFFIC SHIFT
 -L- STA. 39+69±

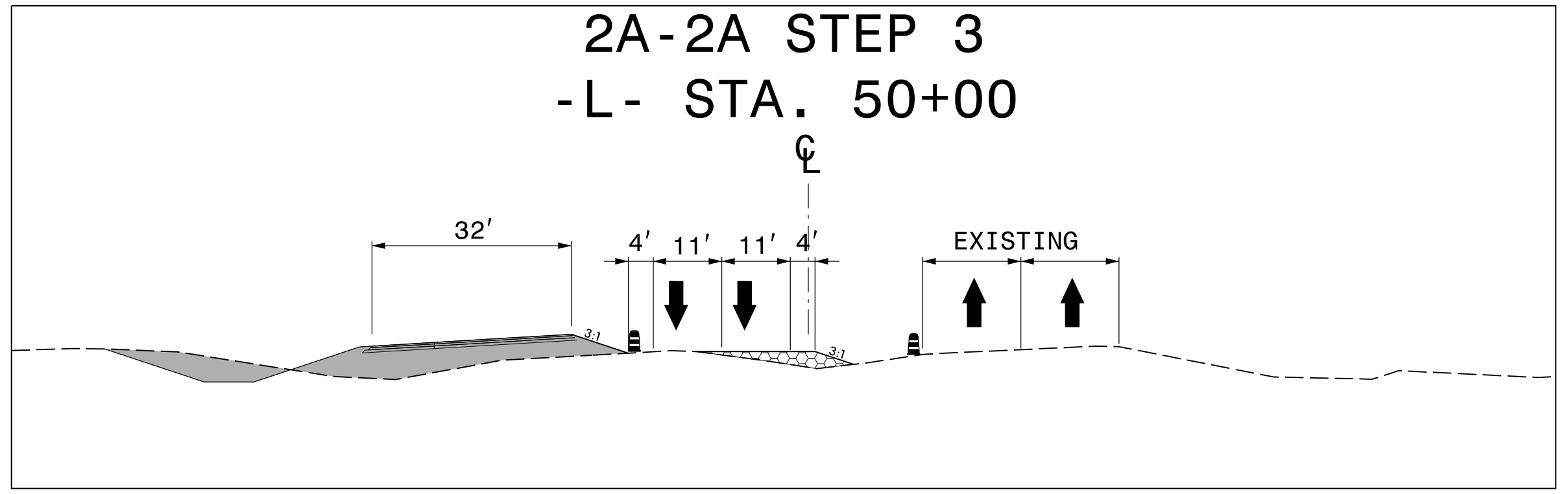
END TRAFFIC SHIFT
 -L- STA. 33+49±

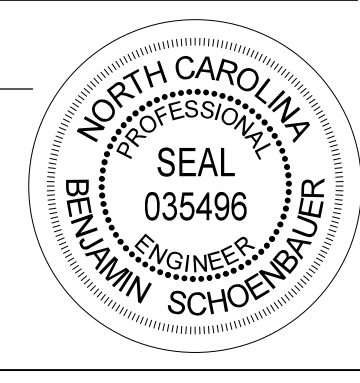


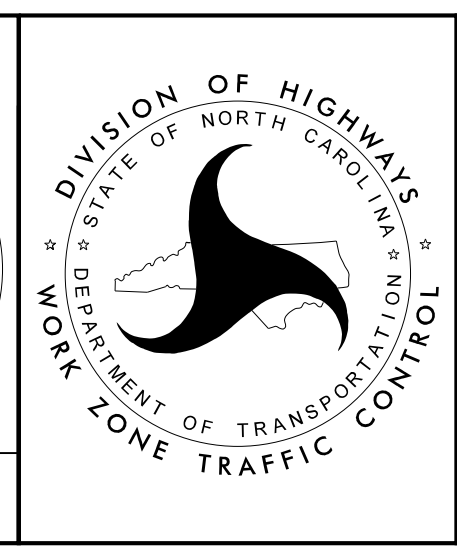
2A-2A STEP 1 AND 2 -L- STA. 50+00



2A-2A STEP 3 -L- STA. 50+00




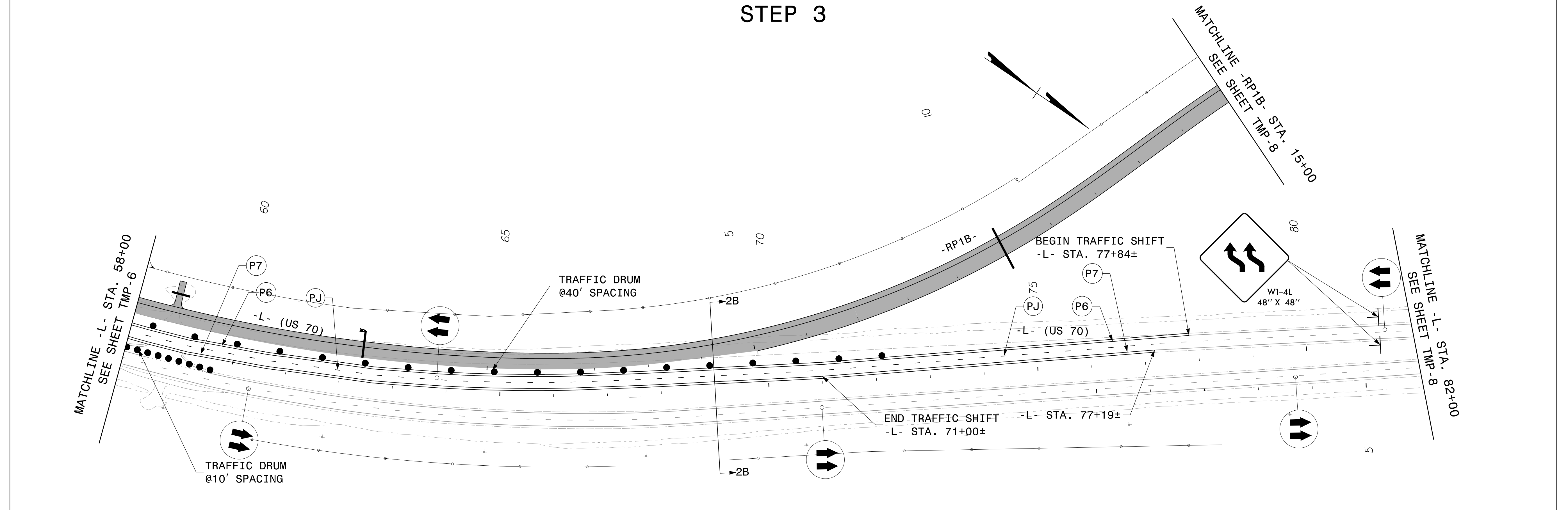
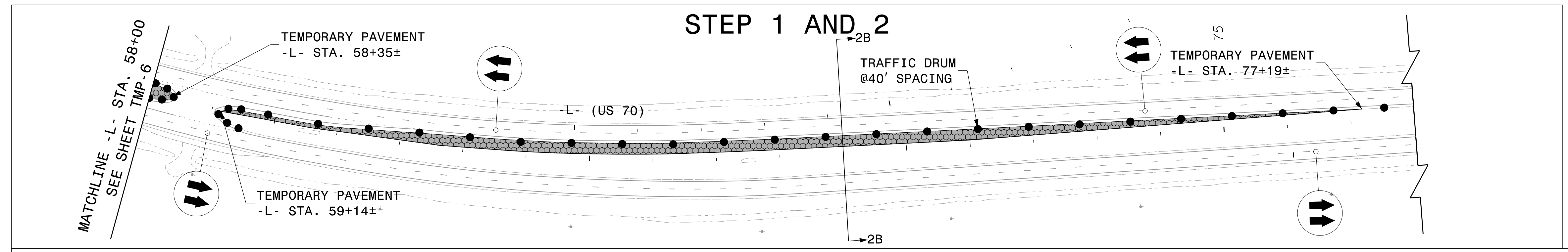
APPROVED: *Ben Schoenberger*
 DATE: 12/4/2018
 SEAL

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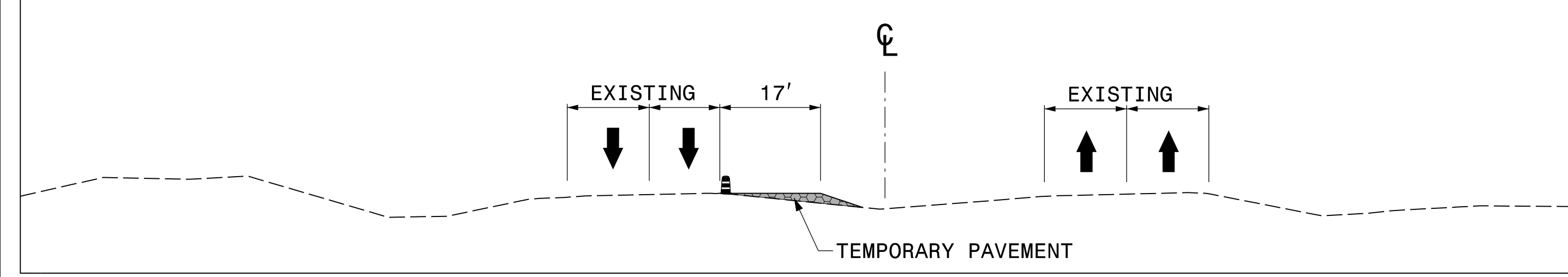
AREA 2
 PHASE 1

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt
 USER: JWILES
 FILE: dw:\pwhdr\users01\jwiles\us_east_01\documents\3322\10001376\10051230\60_CAD\BIM\6.2_Work_In_Progress\TrafficControl\TCR\1015_TC_TMP-06.dgn
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 REVISIONS

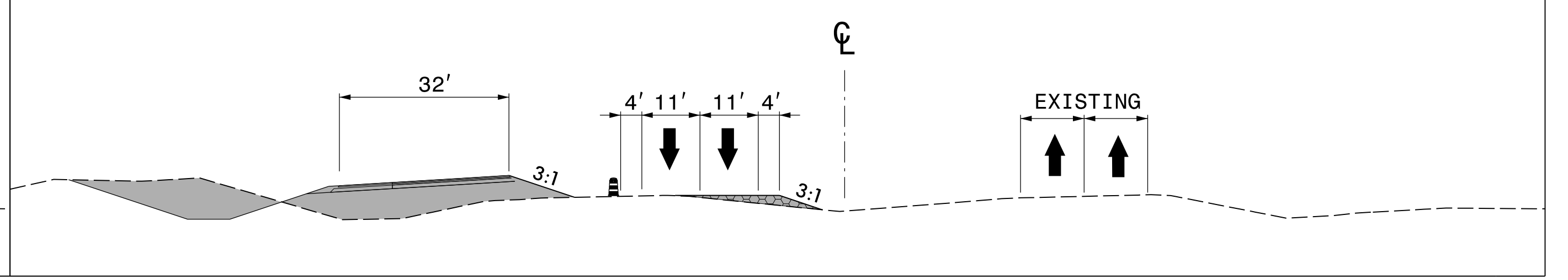
PROJ. REFERENCE NO. R-1015	SHEET NO. TMP-7
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



2B-2B STEP 1 AND 2
-L- STA. 69+00



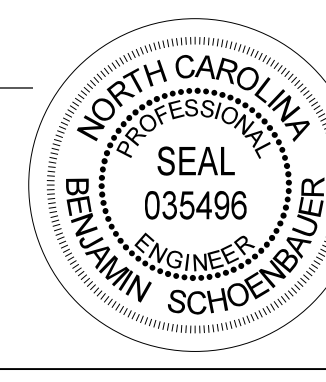
2B-2B STEP 3
-L- STA. 69+00



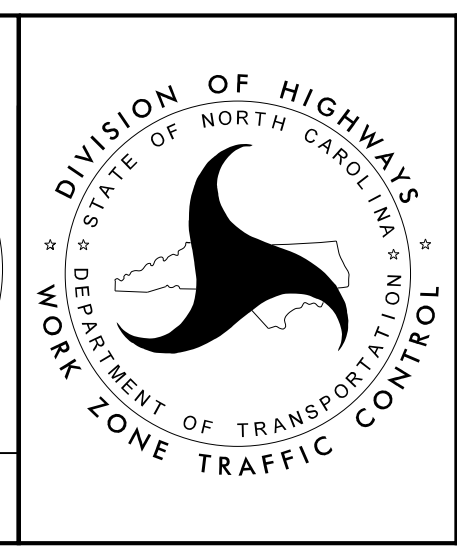
APPROVED: *Ben Schoenberger*

DATE: 12/4/2018

SEAL



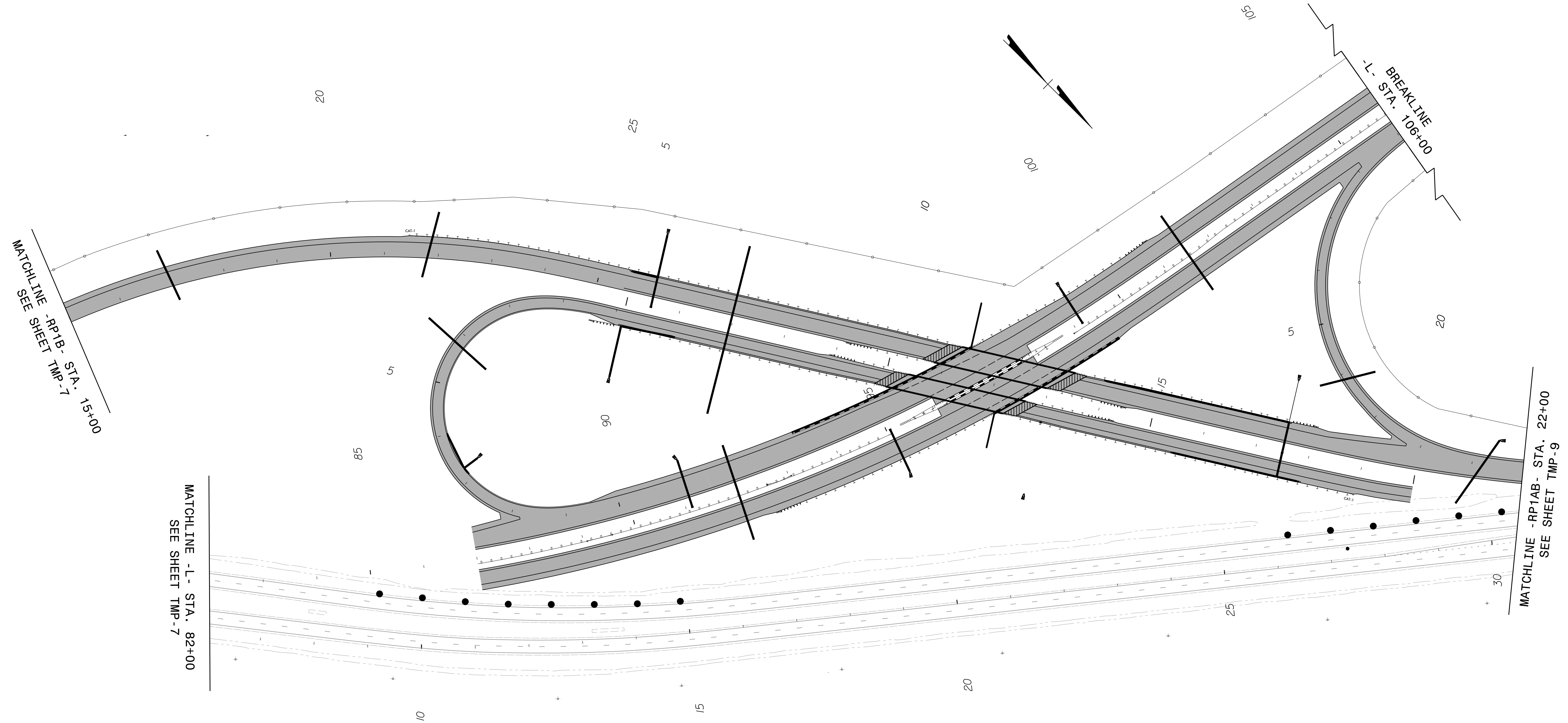
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



**AREA 2
PHASE 1**

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 USER: JWILES
 DATE: 12/4/2018
 TIME: 11:42:49 AM
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REVISIONS




REVISIONS

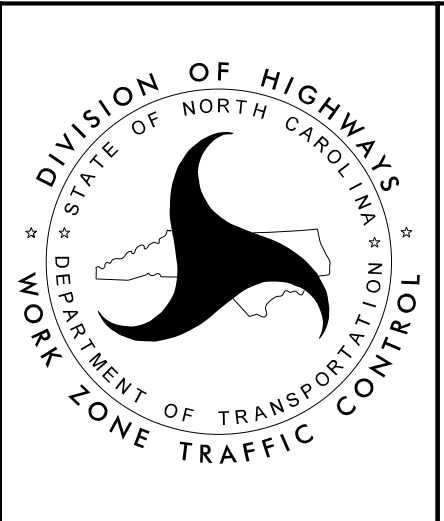
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 USER: JWILLES
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APPROVED: *Ben Schoenbuer*
 DATE: 12/4/2018

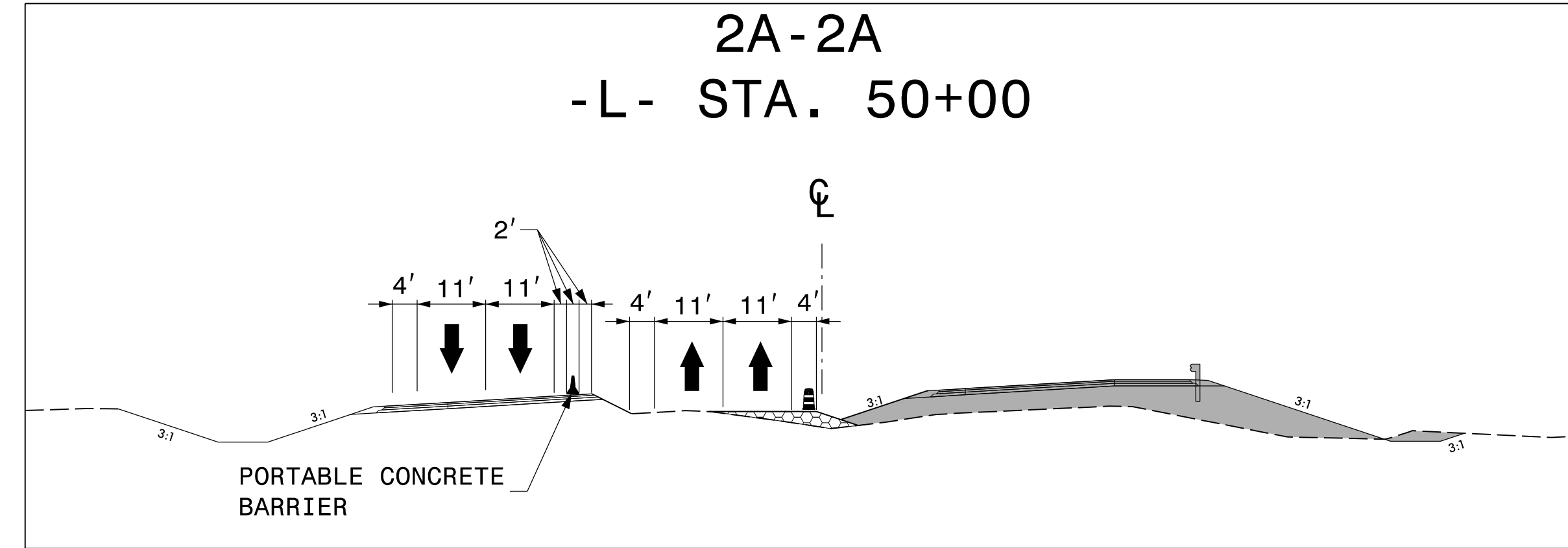
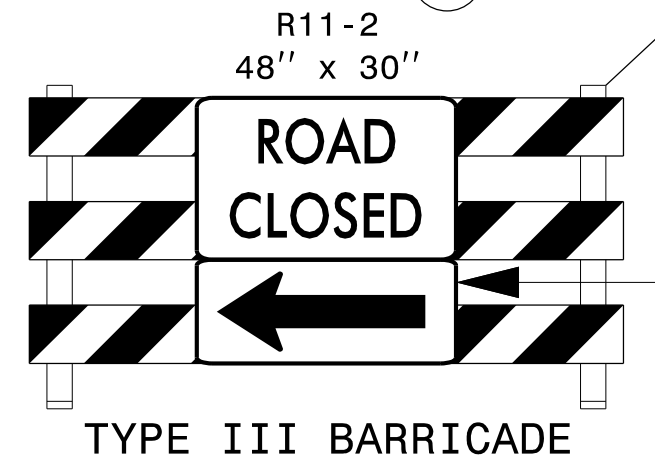
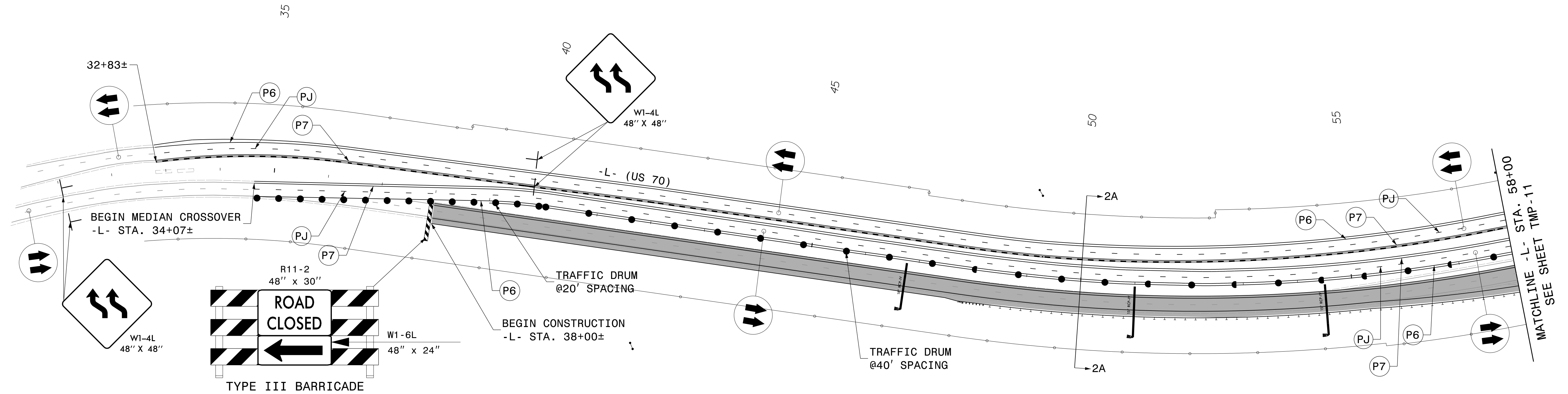
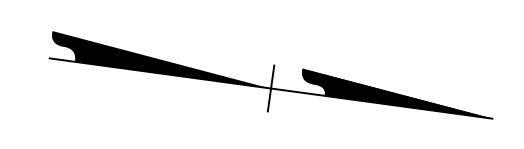
SEAL



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AREA 2
PHASE 1



REVISIONS


PLOT DRIVER: NCDOT_pdf_color_eng_100.plt
 USER: JWILES
 DATE: 12/4/2018
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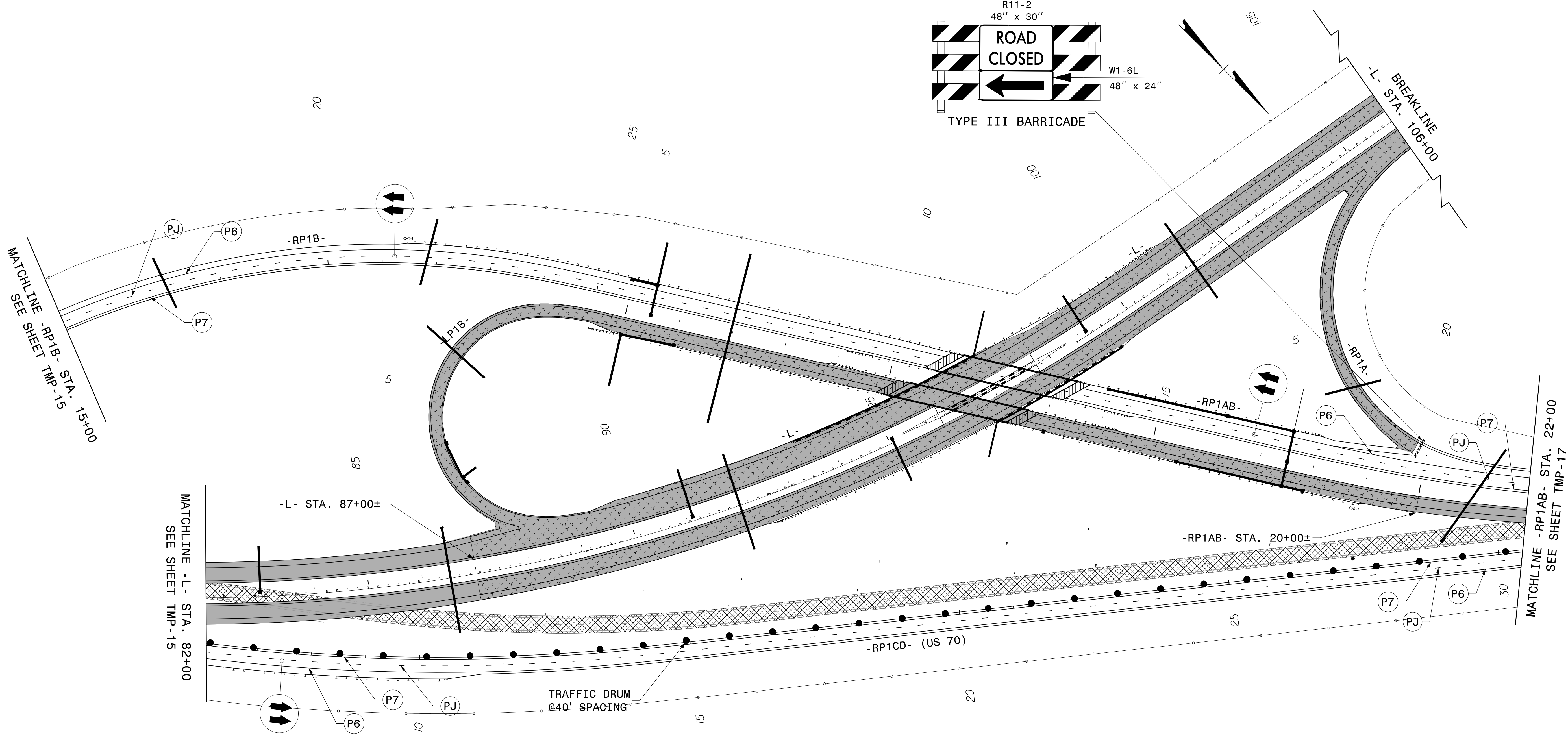
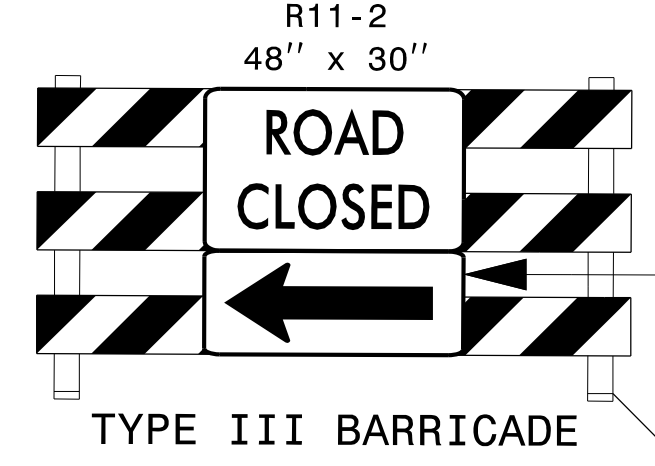
APPROVED: *Ben Schoenberger*
 DATE: 12/4/2018
 SEAL

AREA 2
 PHASE 2

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PROJ. REFERENCE NO.	SHEET NO.
R - 1015	TMP - 16
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

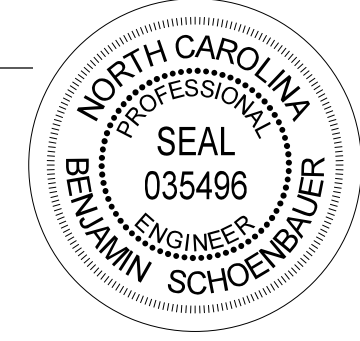


REVISIONS

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APPROVED: *Ben Schoenberger*
 DATE: 12/4/2018

SEAL




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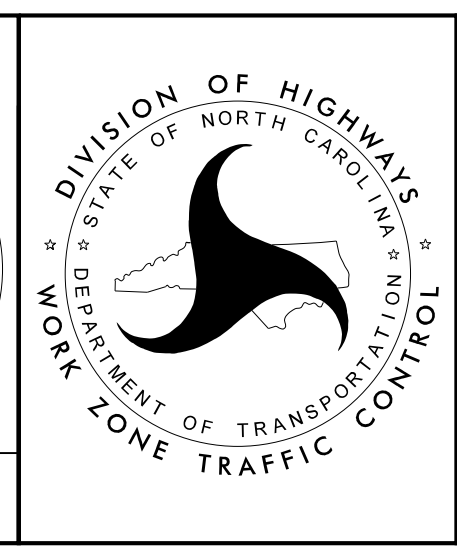
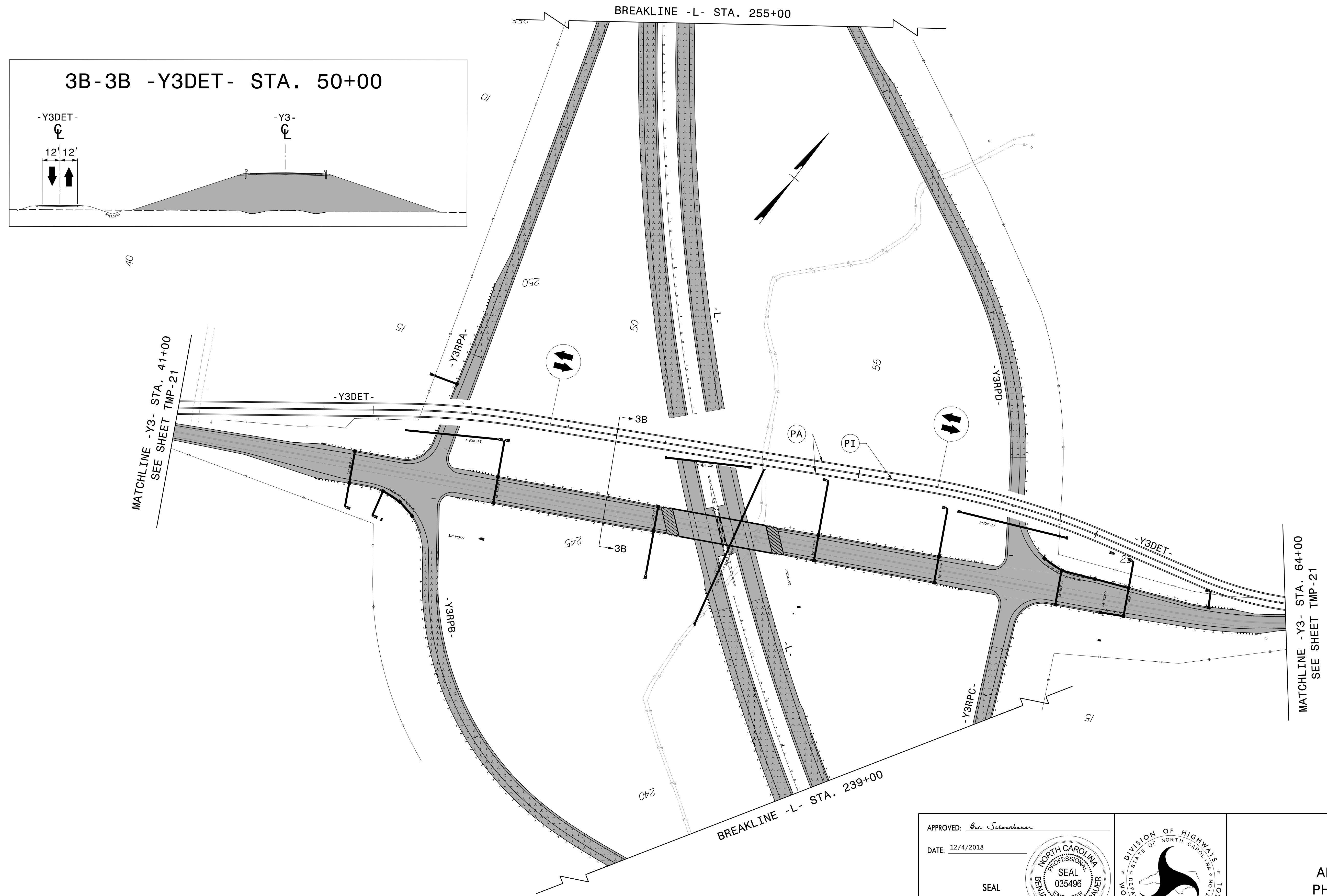
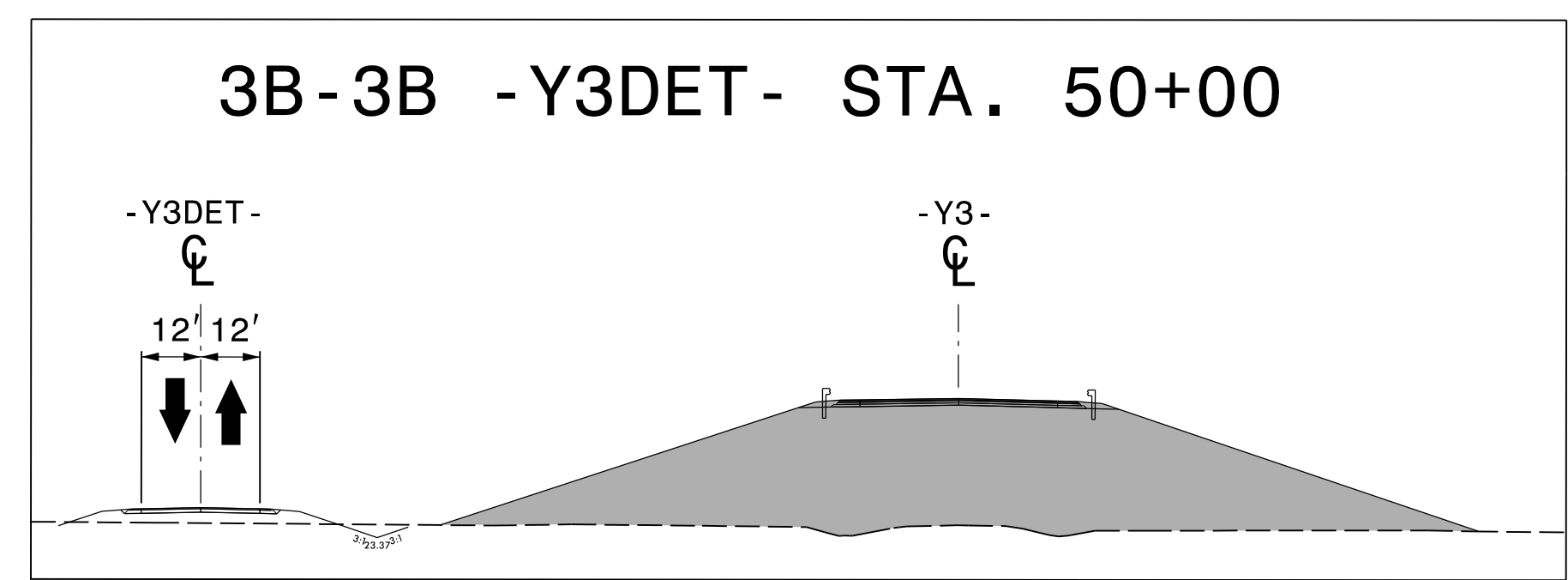


AREA 2
 PHASE 3

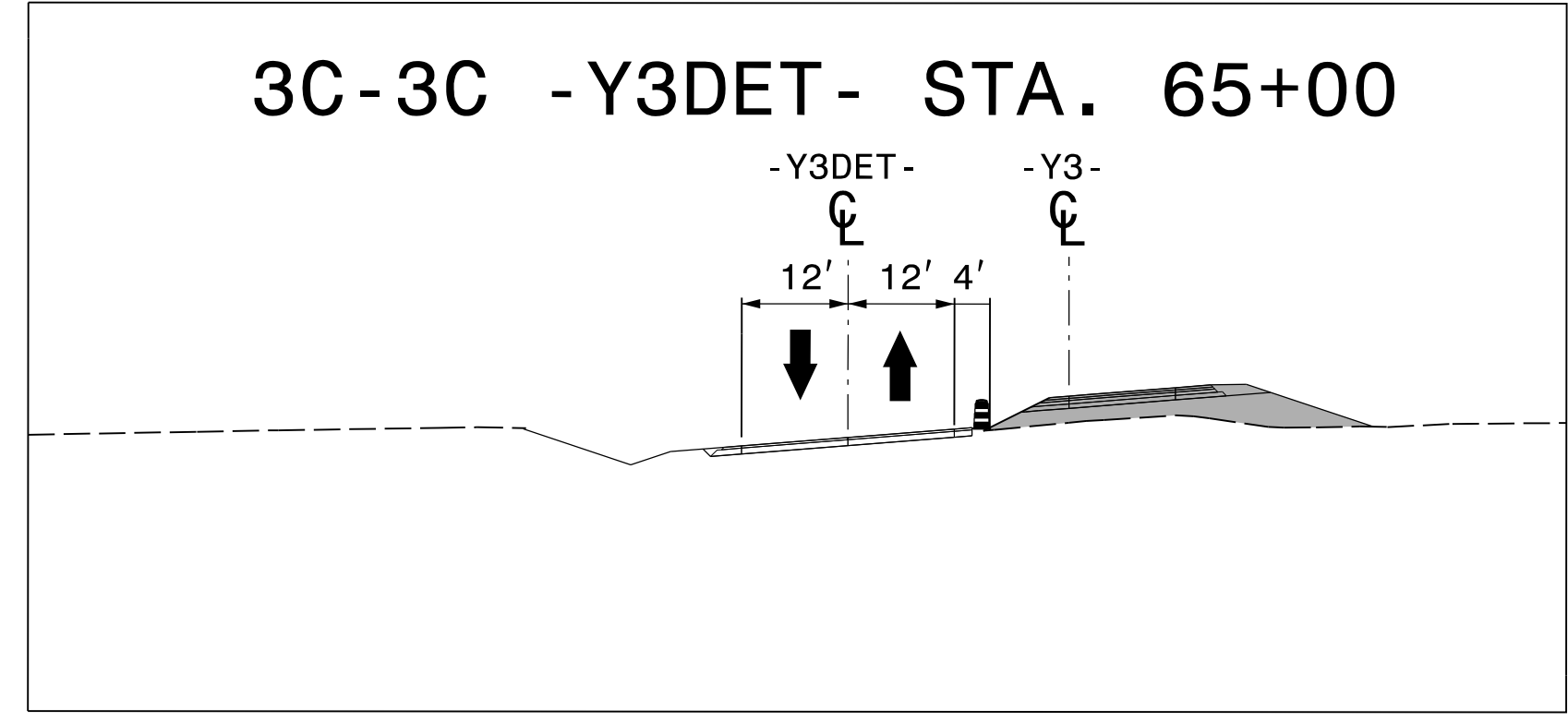
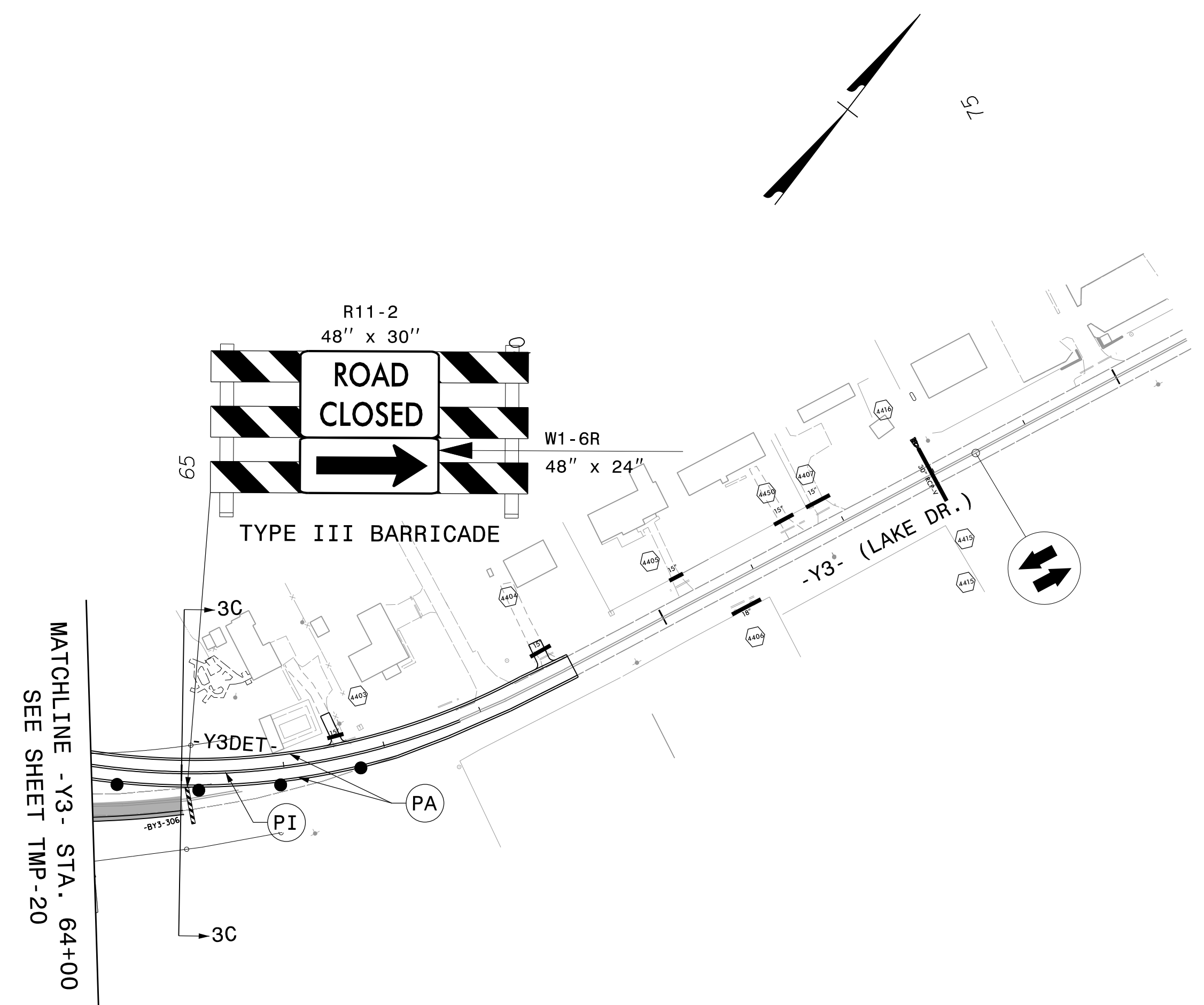
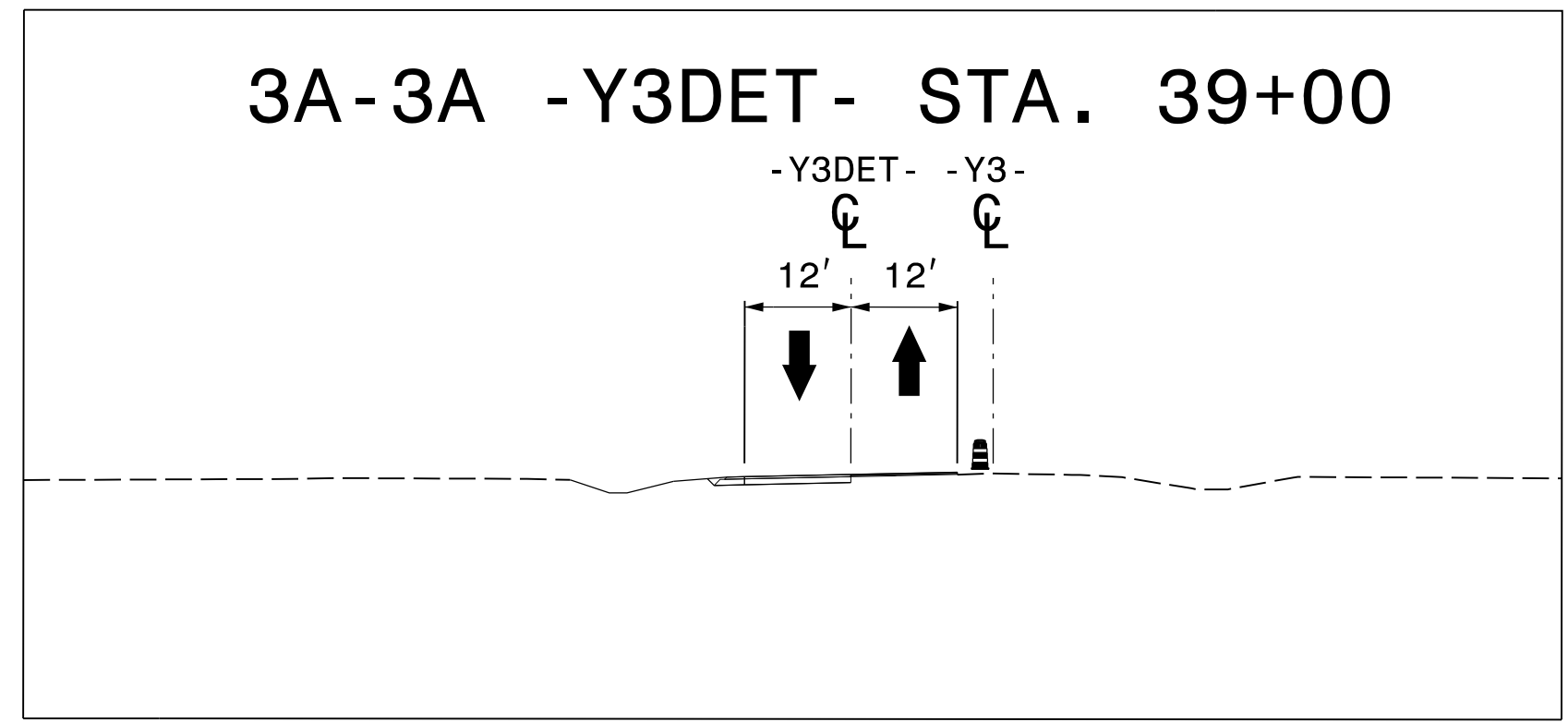
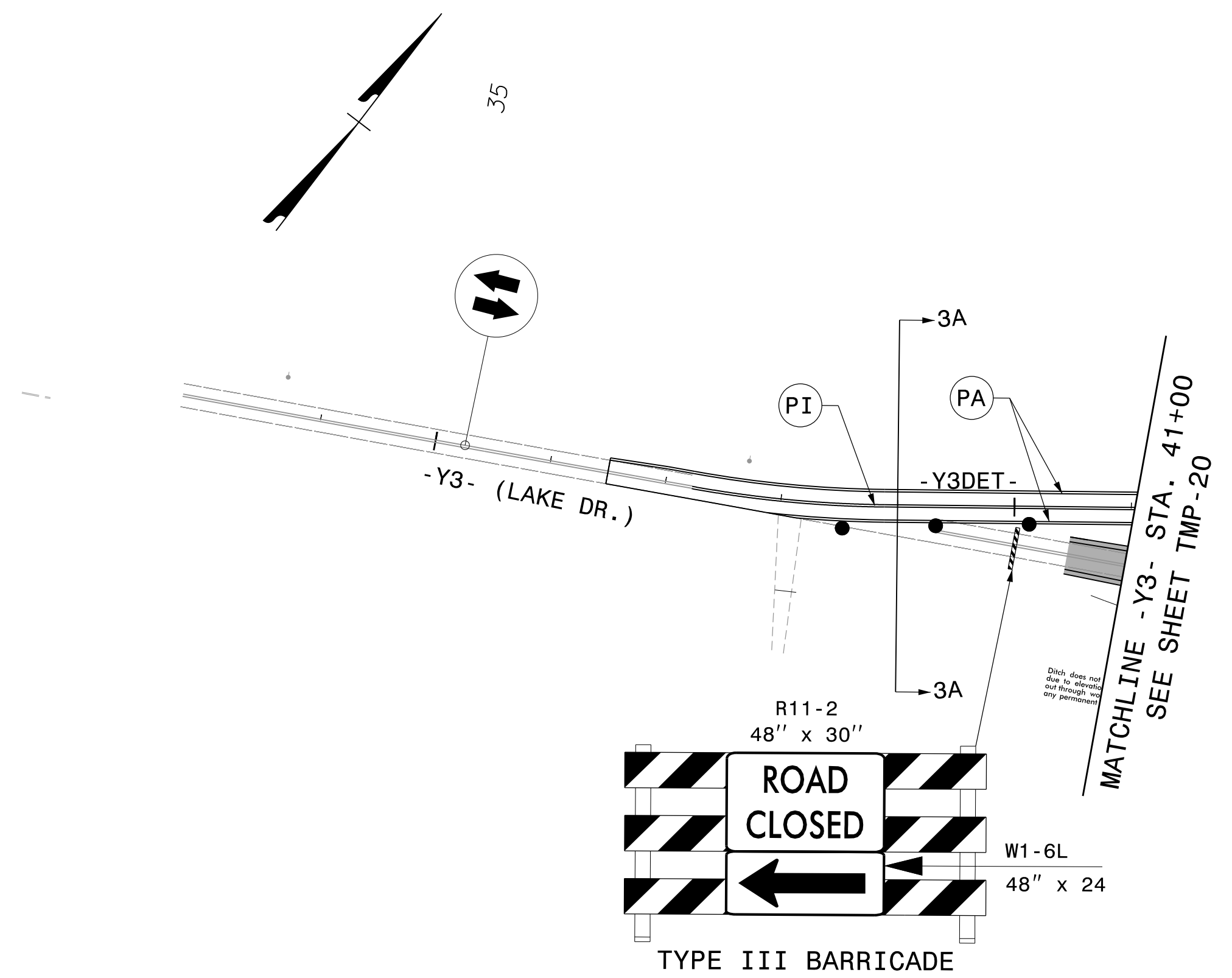
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 DATE: 12/4/2018
 TIME: 11:44:20 AM
 FILE: p:\work\ndr\useas01\HDR_US_East_01\Documents\3322\10001376\10051230\60_CAD_BIM\6.2_Work_In_Progress\TrafficControl\TCR\1015_TC_TMP-20.dgn

REVISIONS

PROJ. REFERENCE NO.	SHEET NO.
R-1015	TMP-20
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

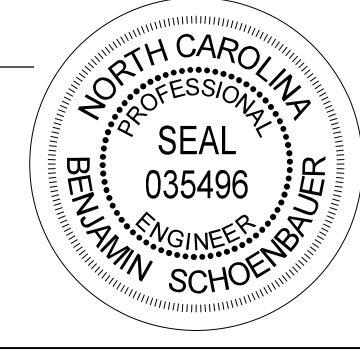


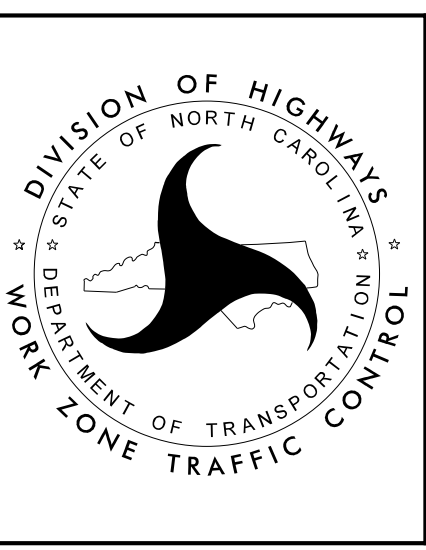
AREA 3
 PHASE 2



REVISIONS


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 DATE: 12/4/2018

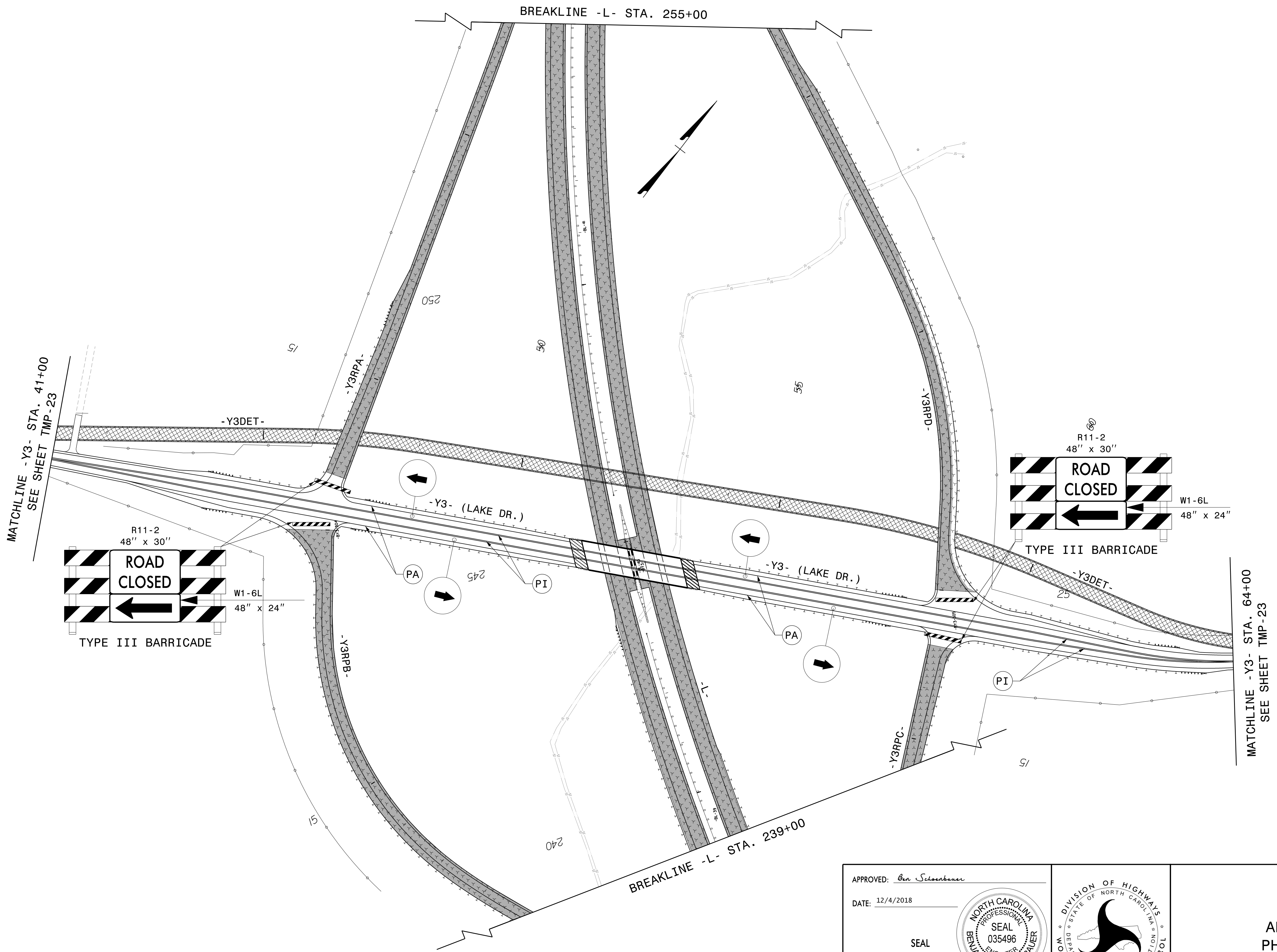
APPROVED: *Ben Schoenberger*
 DATE: 12/4/2018
 SEAL




AREA 3
 PHASE 2

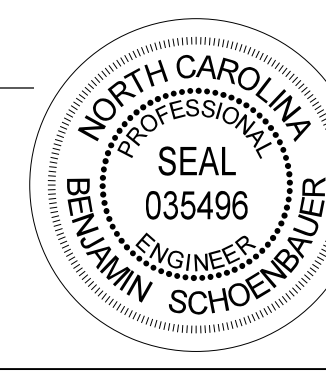
DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

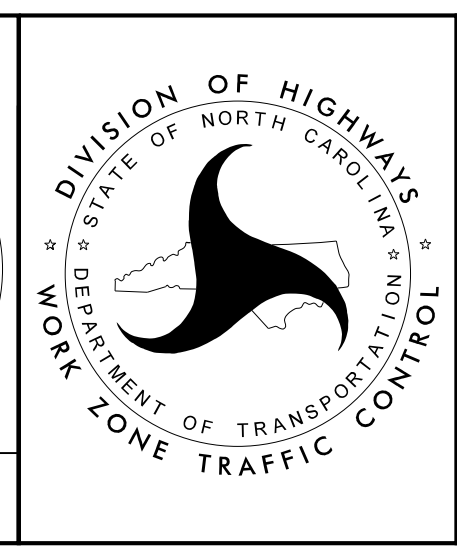
PROJ. REFERENCE NO.	SHEET NO.
R - 1015	TMP - 22
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt
 USER: JWILES
 FILE: dw:\pwhdr\users\jwiles\us_east_01\Documents\3322\10001376\10051230\60_CAD\BIM\6.2_Work_In_Progress\TrafficControl\TCR1015_TC_TMP-22.dgn

APPROVED: *Ben Schoenbauer*
 DATE: 12/4/2018
 SEAL


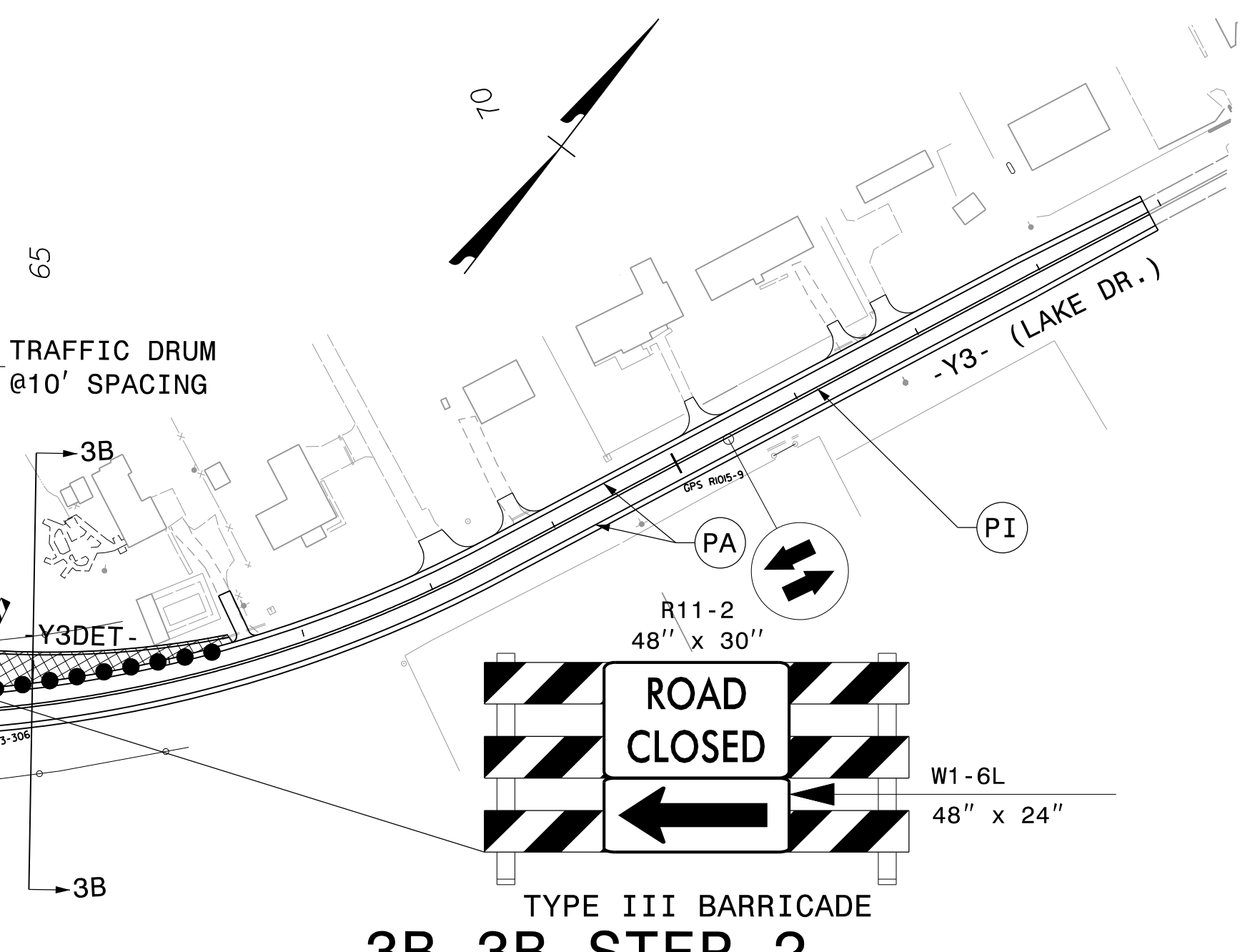
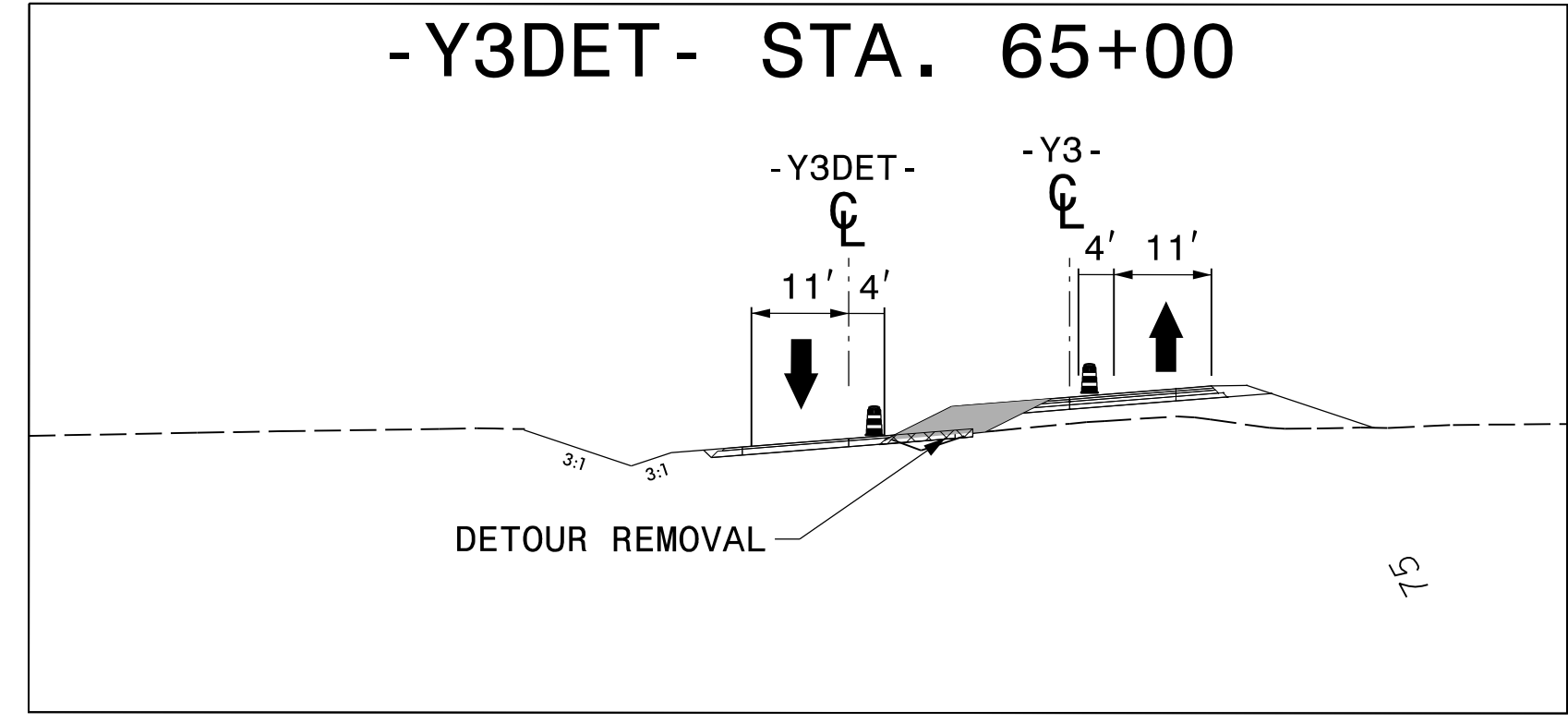


AREA 3
 PHASE 3

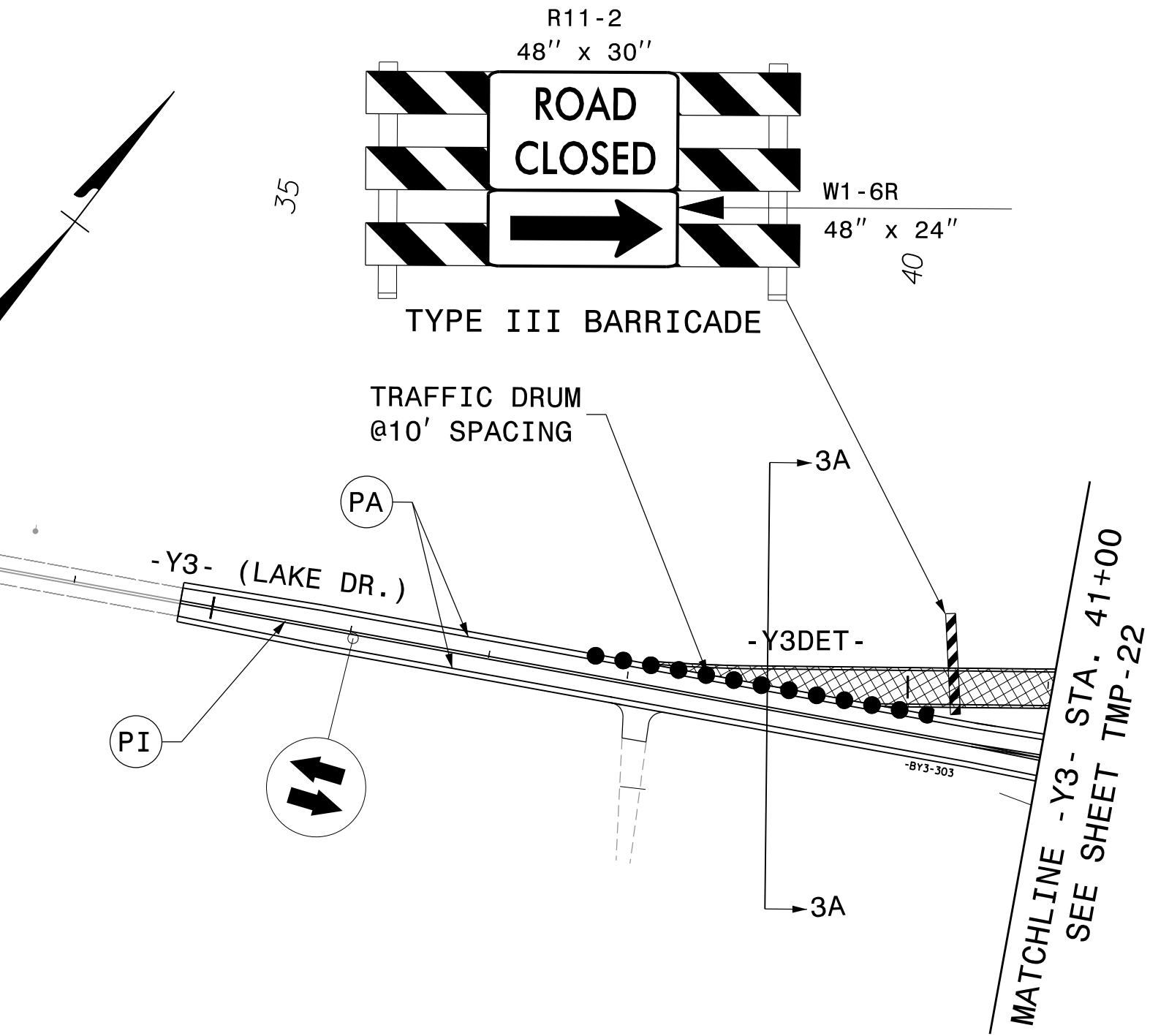
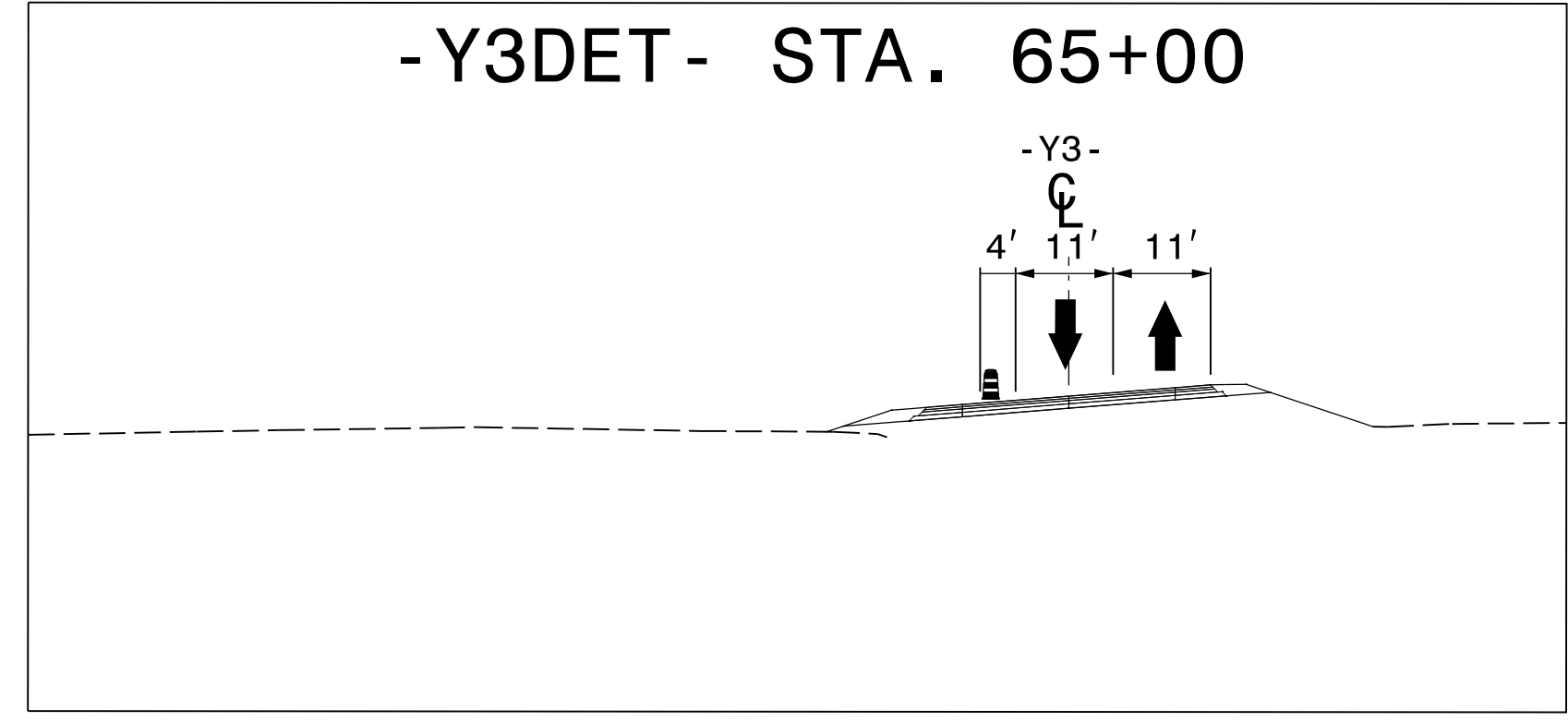
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HDR Engineering, Inc. of the Carolinas
555 Fayetteville St., Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

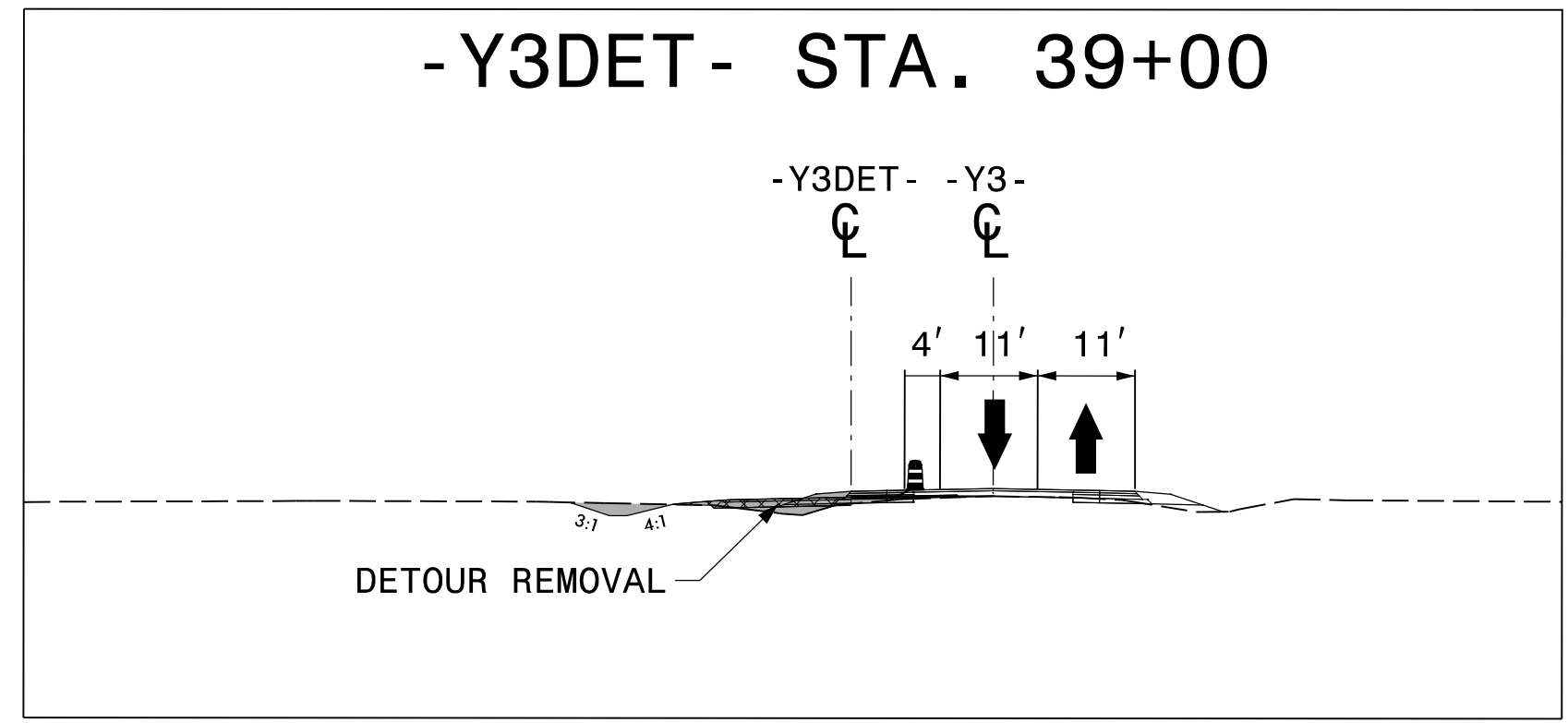
3B-3B STEP 1
-Y3DET- STA. 65+00



3B-3B STEP 2
-Y3DET- STA. 65+00



3A-3A STEP 2
-Y3DET- STA. 39+00



REVISIONS

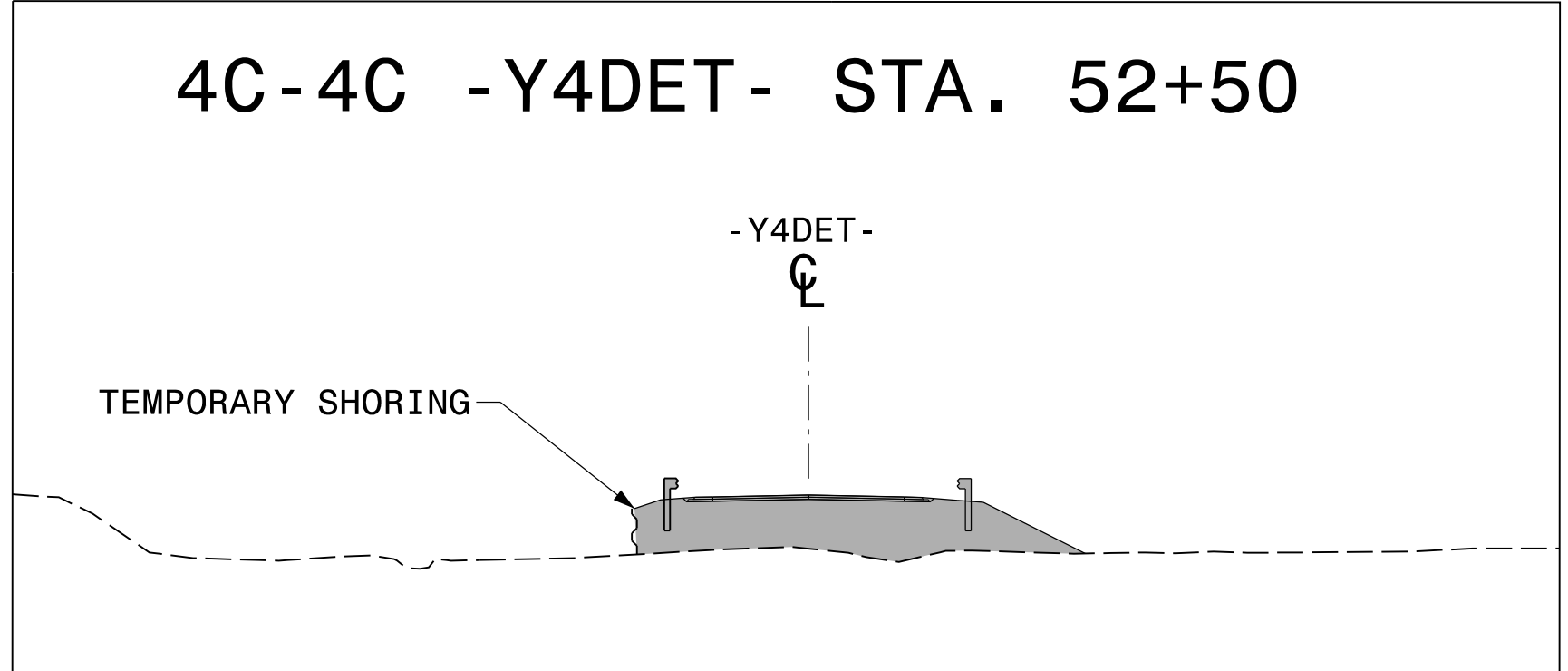
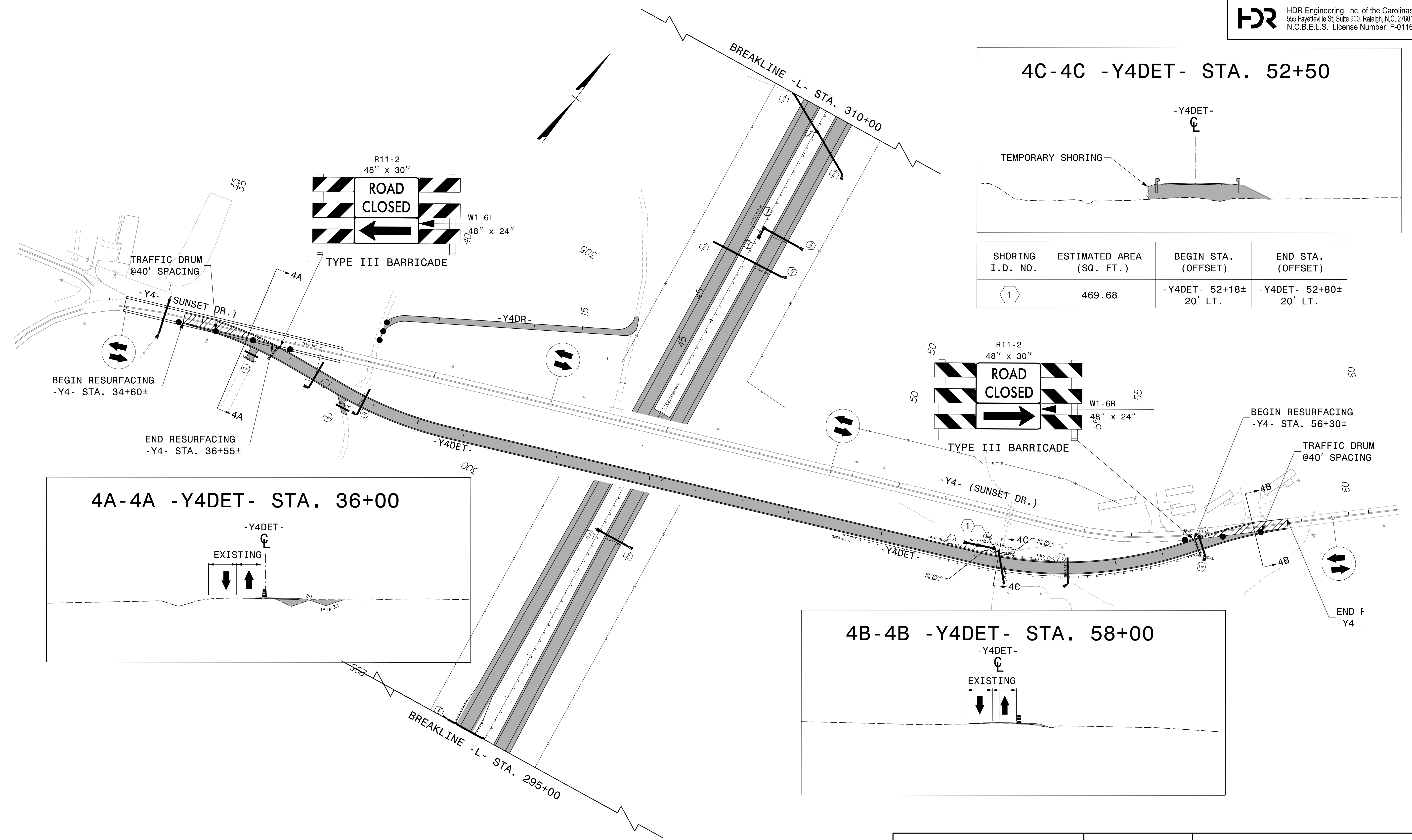
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TIME: 11:44:35 AM
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APPROVED: *Ben Schoenbuer*
DATE: 12/4/2018
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 035496
BENJAMIN SCHOENBUER

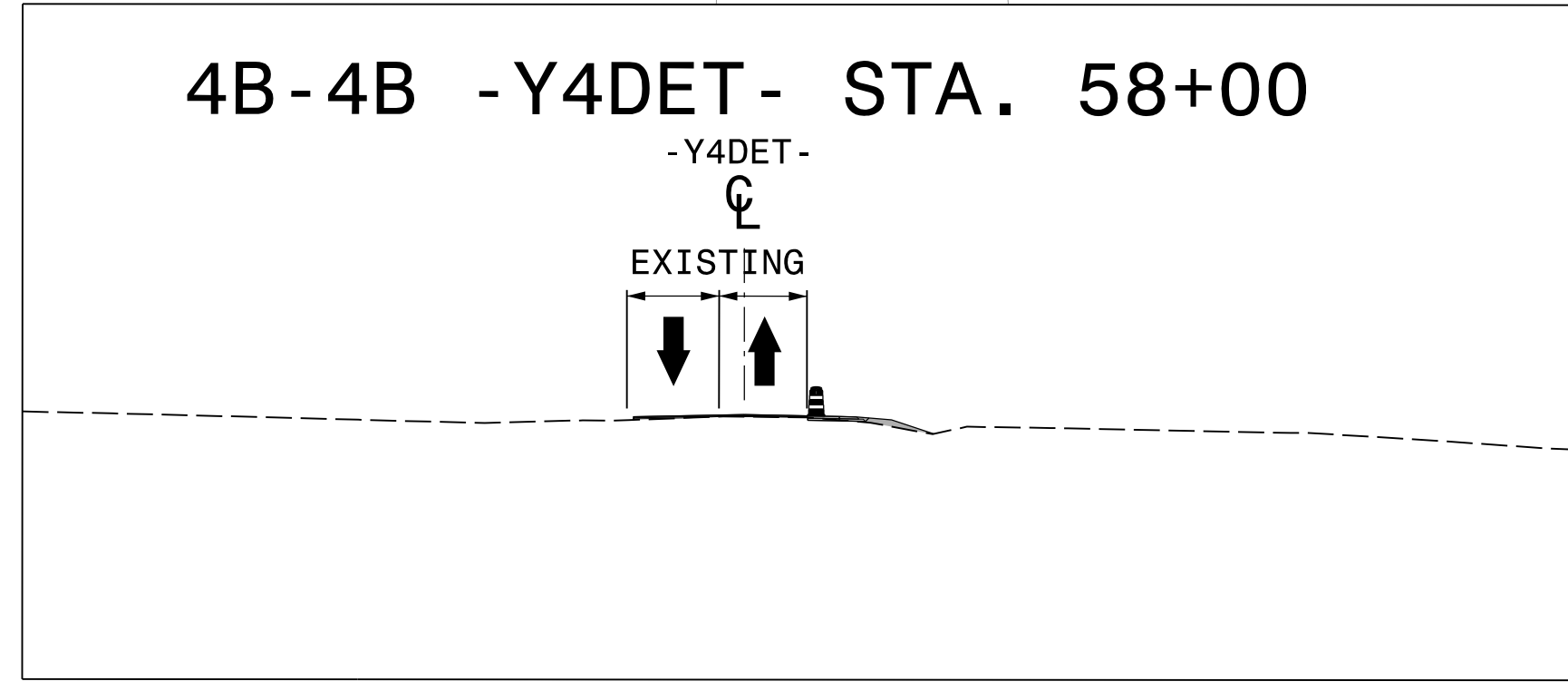
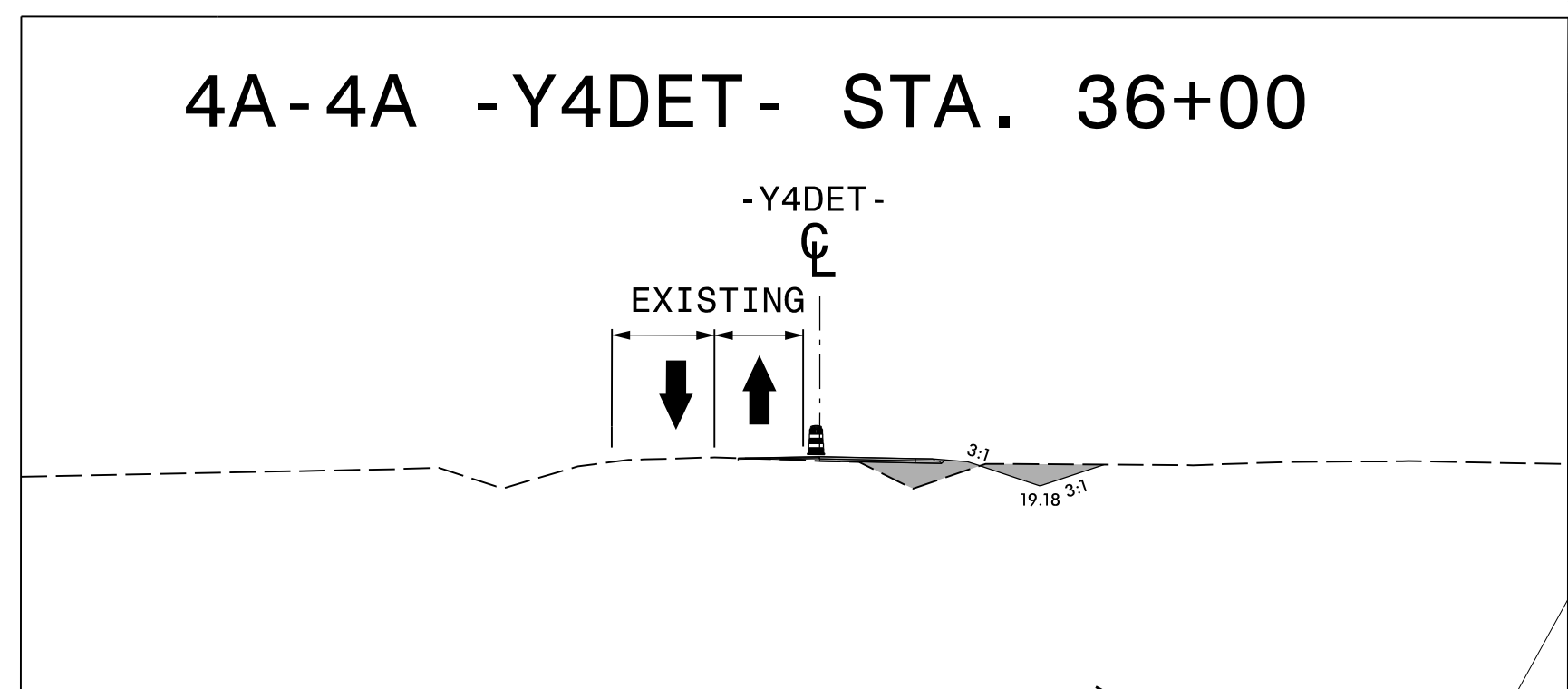
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

AREA 3
PHASE 3

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SHORING I.D. NO.	ESTIMATED AREA (SQ. FT.)	BEGIN STA. (OFFSET)	END STA. (OFFSET)
1	469.68	-Y4DET- 52+18± 20' LT.	-Y4DET- 52+80± 20' LT.



REVISIONS

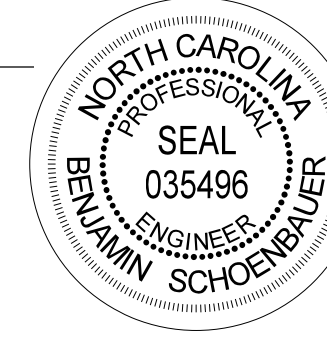
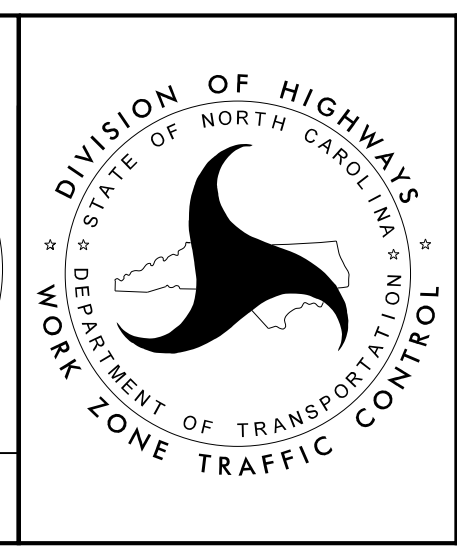
- 12/17/2018: ADDED TEMPORARY GUARDRAIL -Y4DET-, 4C-4C -Y4DET- 52+50
- 12/17/2018: PROPOSED SHOULDER ADDED AT BEGINNING OF -Y4- DUE TO ROADWAY REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt
 USER: JWILES
 DATE: 5/13/2019
 TIME: 1:17:56 PM
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APPROVED: *Ben Schoenbauer*

DATE: 5/13/2019

SEAL

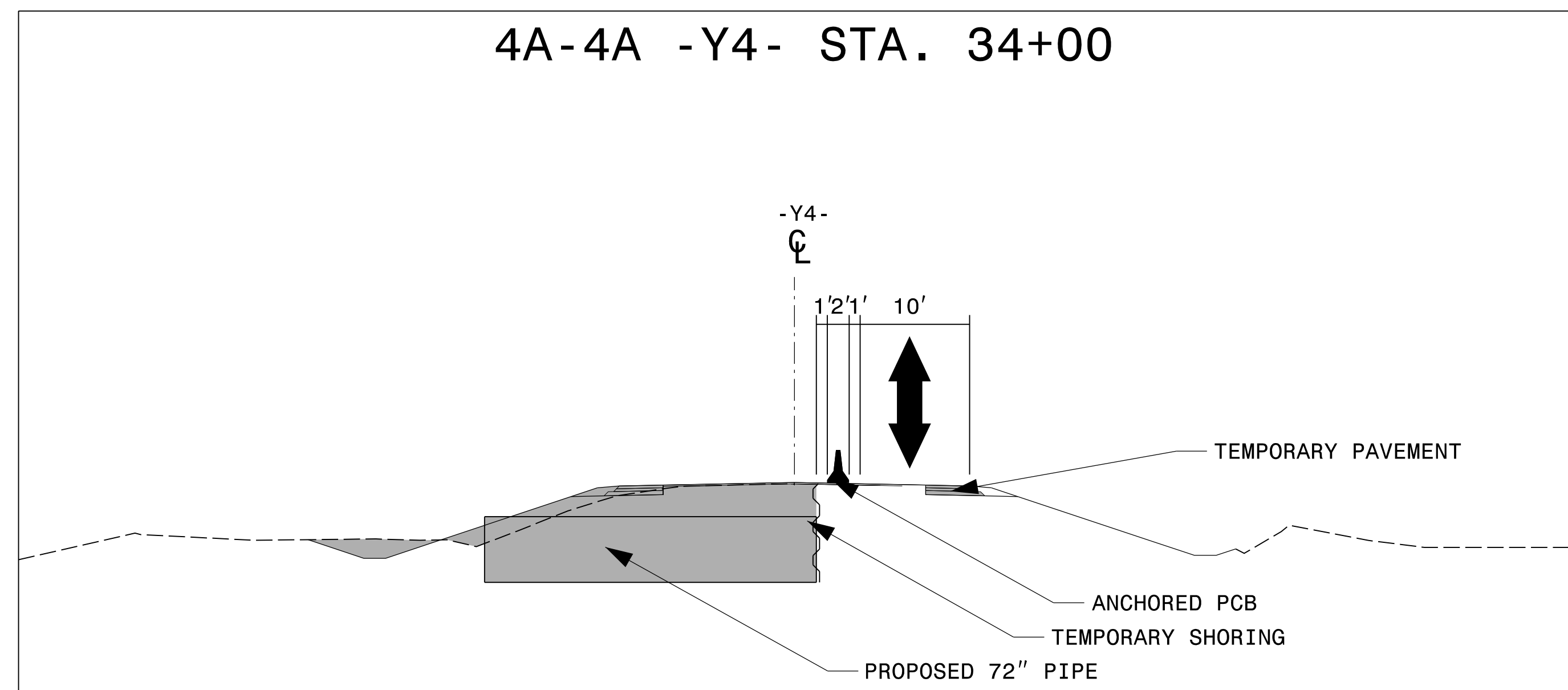
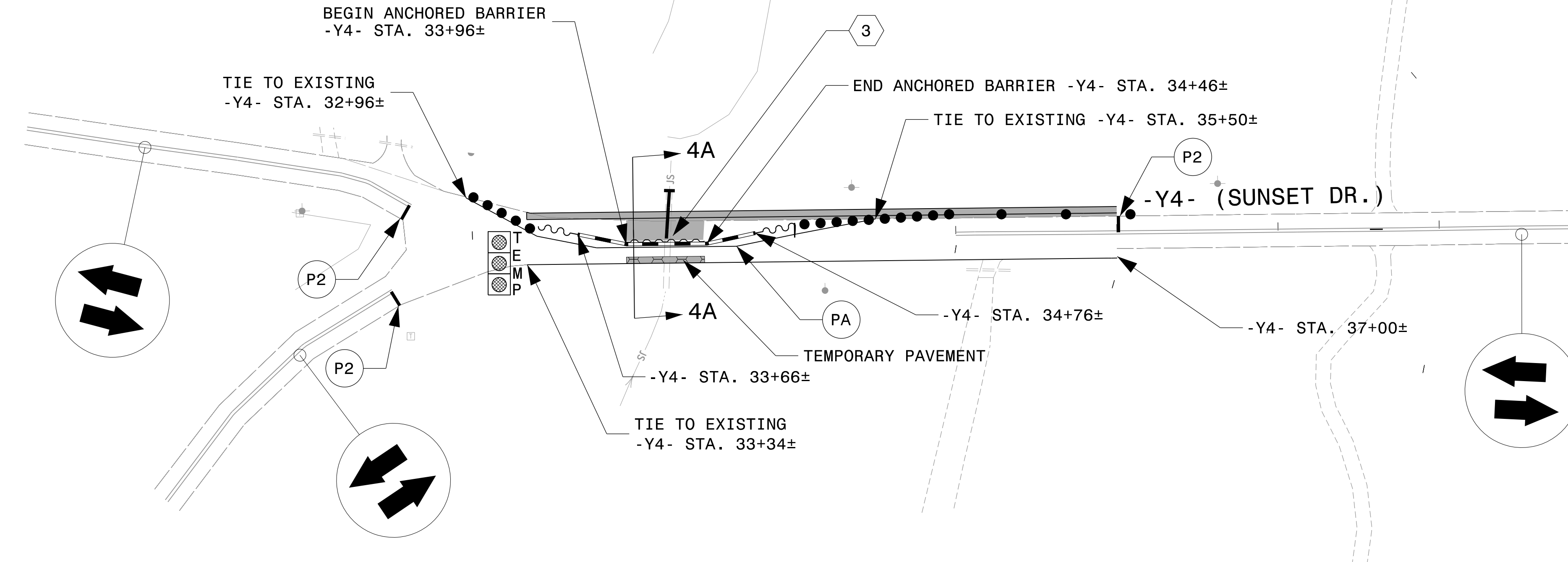



AREA 4
PHASE 1

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UNLESS ALL SIGNATURES COMPLETED**

SHORING I.D. NO.	ESTIMATED AREA (SQ. FT.)	BEGIN STA. (OFFSET)	END STA. (OFFSET)
3	270.80	-Y4- 33+96± 2.00' RT.	-Y4- 33+44± 2.15' RT.

NOTE:
SEE SIGNALIZATION PLANS FOR SIGNAL DETAILS
AND STOP BAR LOCATIONS



REVISIONS

- 05/09/2019: ADDED NEW SHEET SHOWING STAGE CONSTRUCTION OF PROPOSED 72 INCH PIPE
- 05/21/2019: REVISED LIMITS OF PIPE CONSTRUCTION

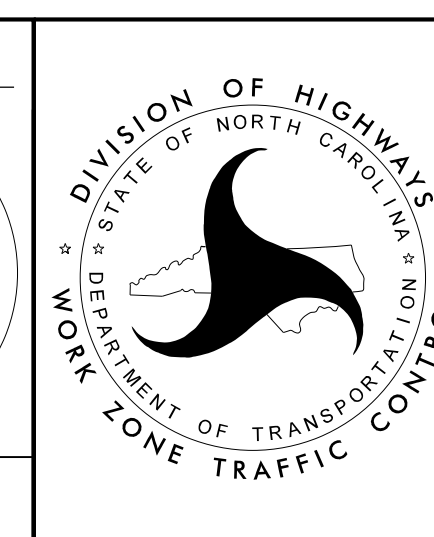
PLOT DRIVER: NCDOT_pdf_color_eng_100.plt
 USER: JWILES
 DATE: 5/21/2019
 TIME: 3:03:29 PM
 FILE: p:\pw\pwhdr\uses01\hdr\US_East_01\Documents\3322\10001376\10051230\60_CAD\BIM\6.2_Work_In_Progress\TrafficControl\TCR1015_TC_TMP-24A

APPROVED: *Ben Schoenber*

DATE: 5/21/2019

SEAL

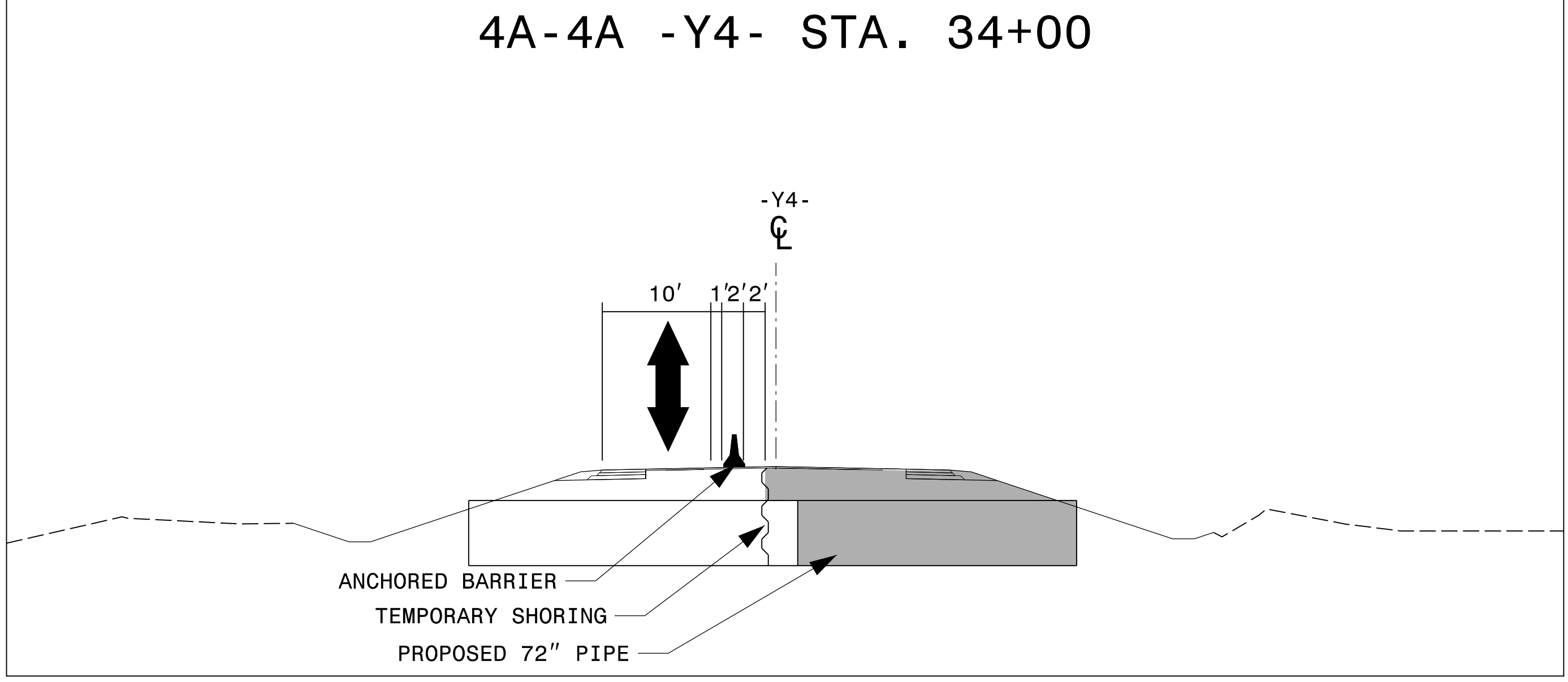
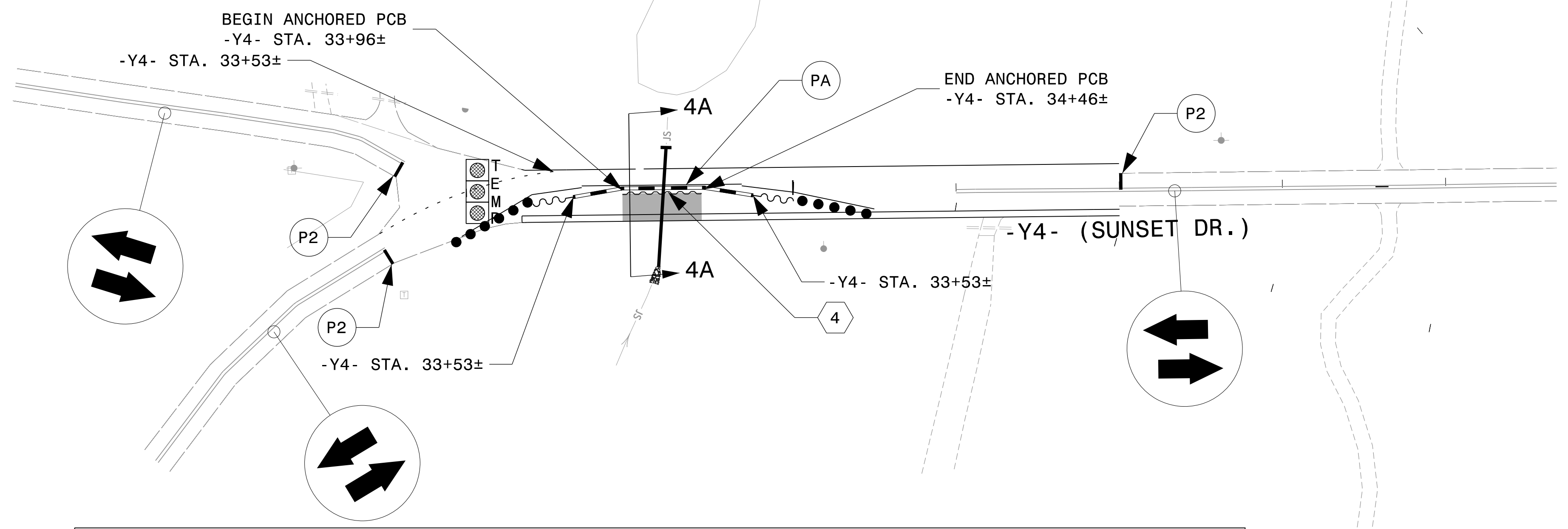
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



**AREA 4
PHASE 1
STEP 2**

SHORING I.D. NO.	ESTIMATED AREA (SQ. FT.)	BEGIN STA. (OFFSET)	END STA. (OFFSET)
4	270.80	-Y4- 33+96± 1.21' LT.	-Y4- 33+44± 1.10' LT.

NOTE:
 SEE SIGNALIZATION PLANS FOR SIGNAL DETAILS
 AND STOP BAR LOCATIONS



REVISIONS

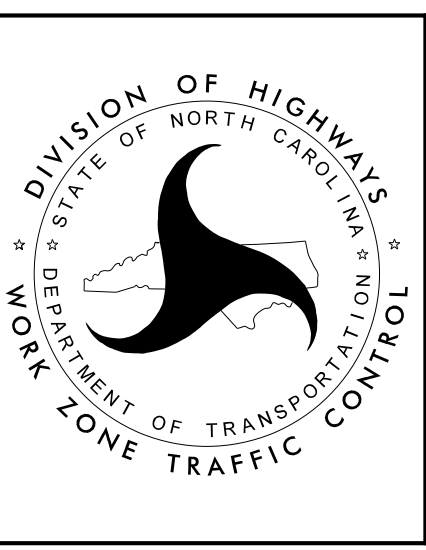
- 1 05/09/2019: ADDED NEW SHEET SHOWING STAGE CONSTRUCTION OF PROPOSED 72 INCH PIPE
- 2 05/21/2019: REVISED LIMITS OF PIPE CONSTRUCTION AND ADDED TEMPORARY SHORING NO. 4

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt PENTABLE: NCDOT_tcp.tbl
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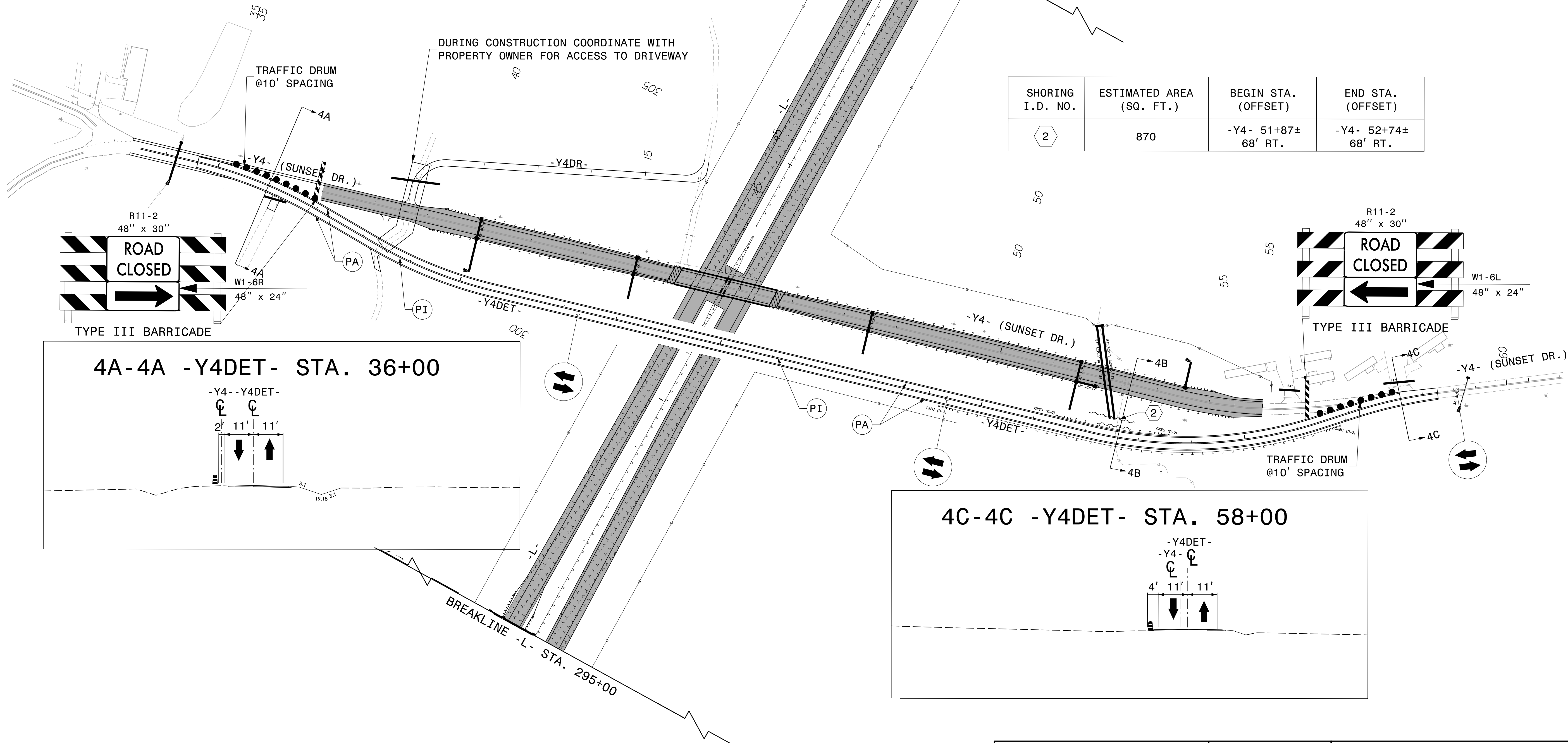
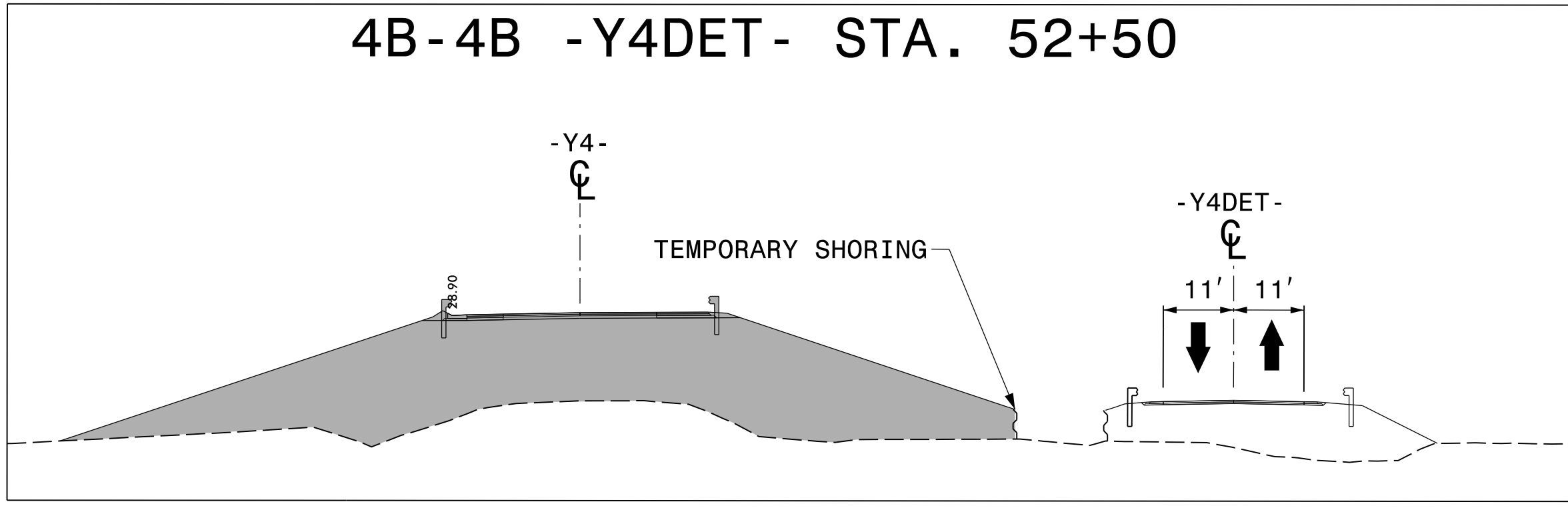
APPROVED: *Ben Schoenauer*
 DATE: 5/21/2019

SEAL

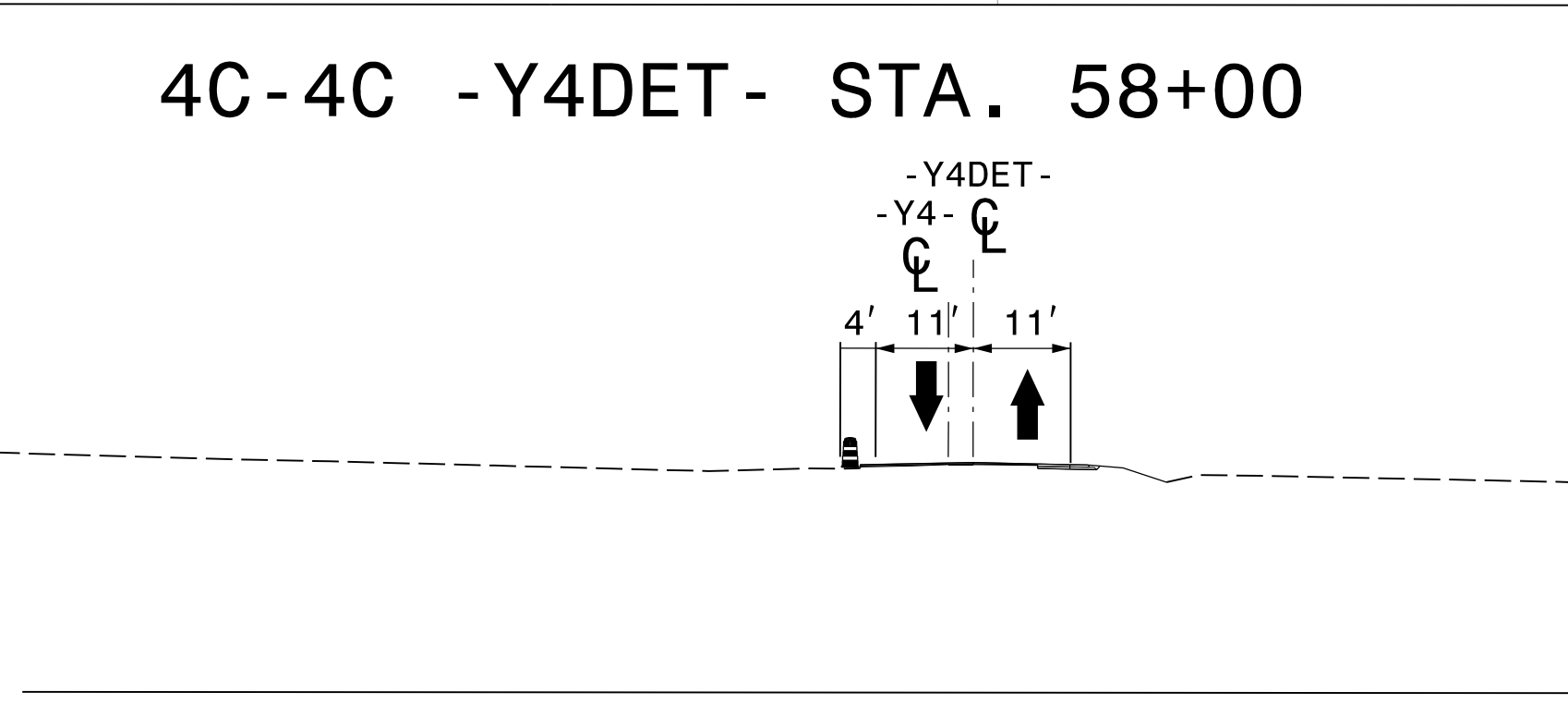
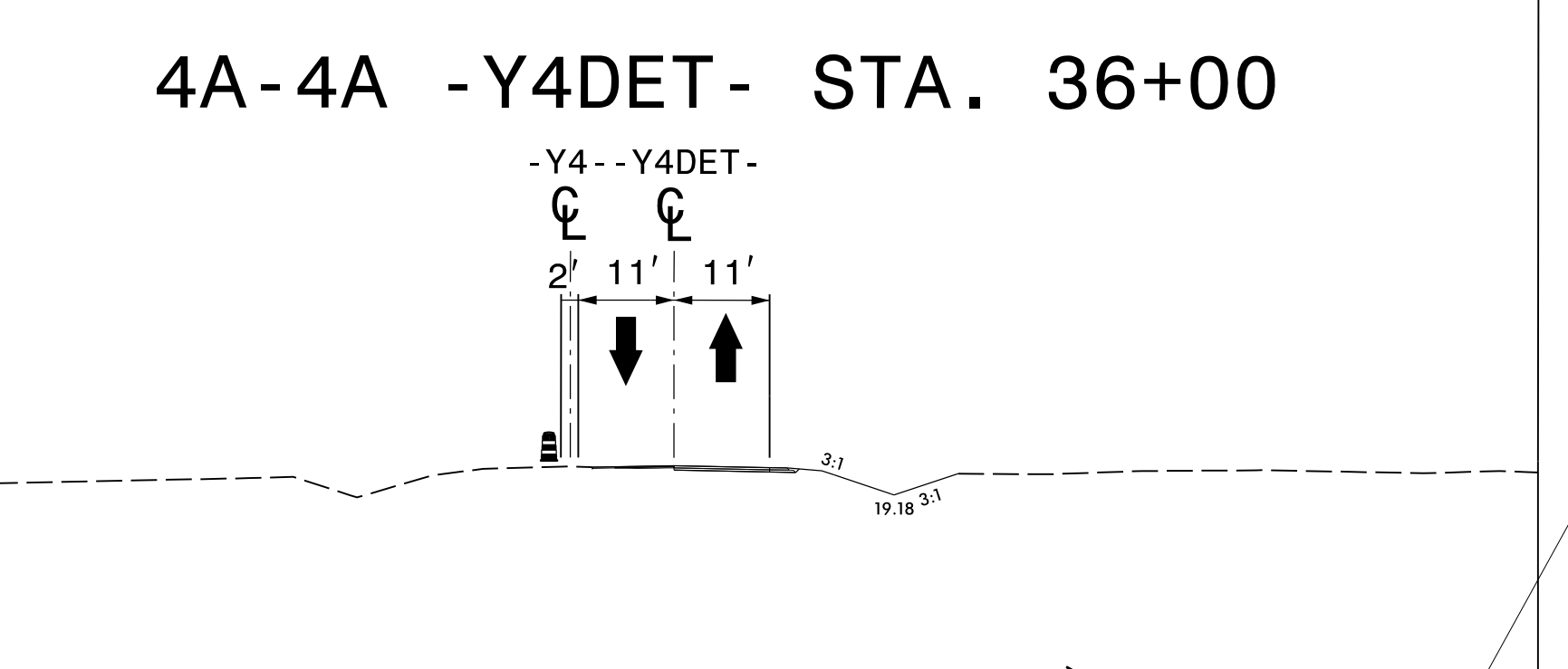
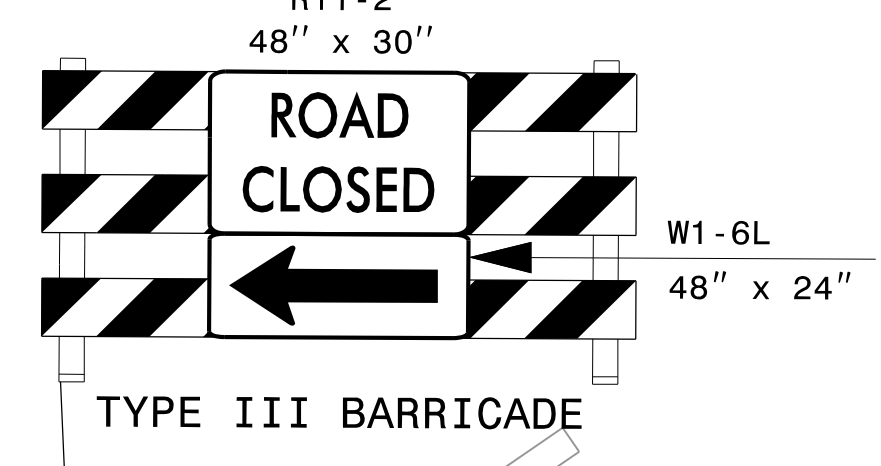
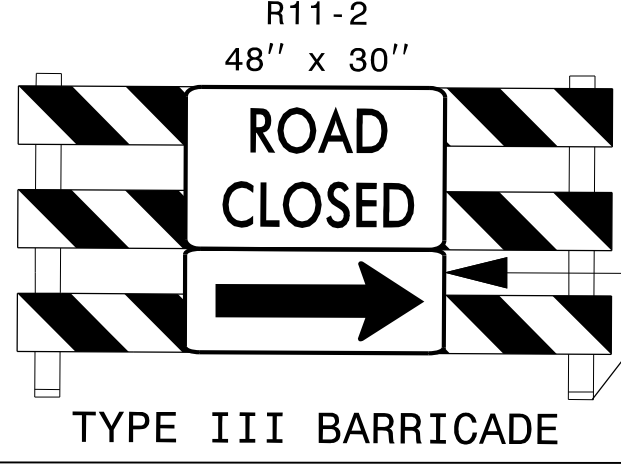
**DOCUMENT NOT CONSIDERED FINAL
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AREA 4
 PHASE 1
 STEP 3



SHORING I.D. NO.	ESTIMATED AREA (SQ. FT.)	BEGIN STA. (OFFSET)	END STA. (OFFSET)
2	870	-Y4- 51+87± 68' RT.	-Y4- 52+74± 68' RT.



REVISIONS

12/17/2018: ADDED TEMPORARY GUARDRAIL -Y4DET-, 4B-4B -Y4DET- 52+50

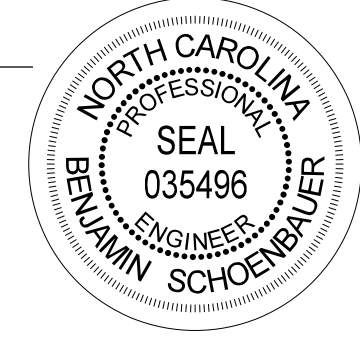
05/09/2019: REVISED TEMPORARY PAVEMENT MARKINGS AT THE BEGINNING OF -Y4- DUE TO ROADWAY REVISION

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APPROVED: *Ben Schoenberger*

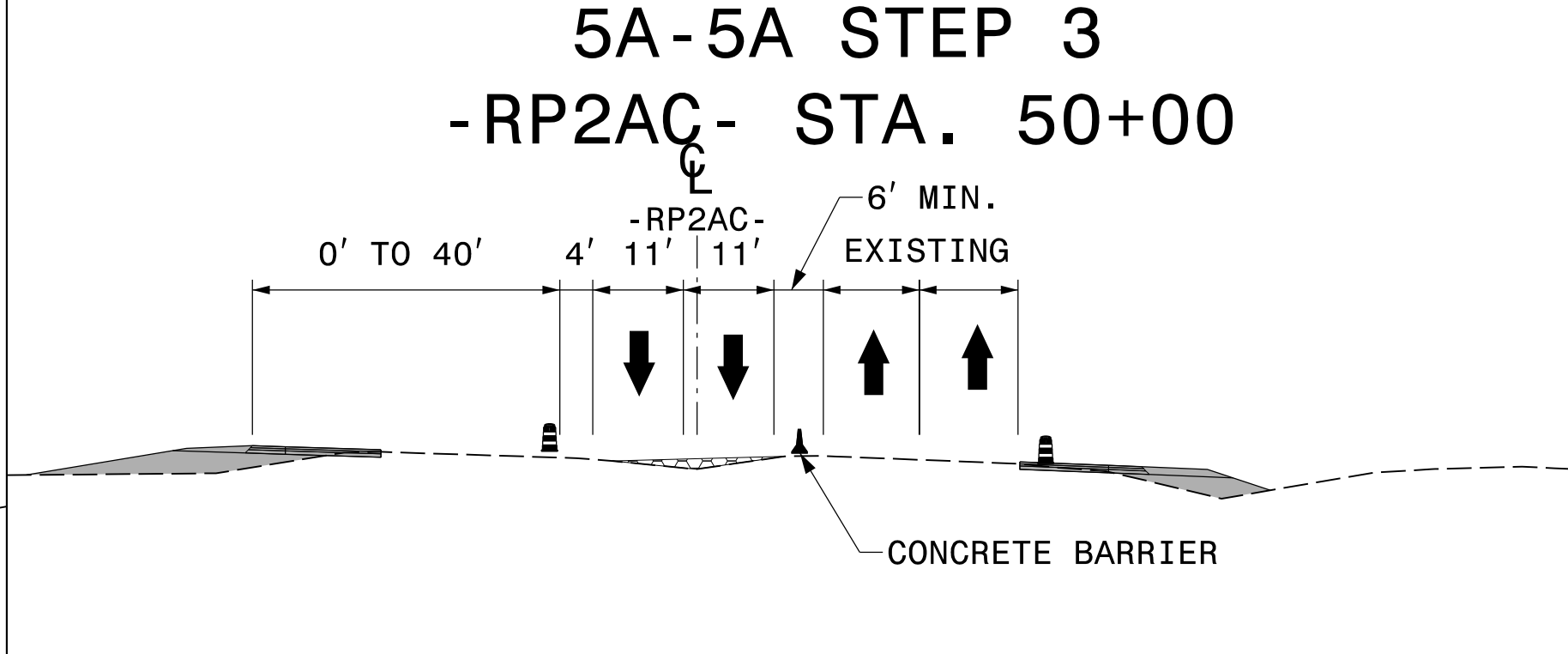
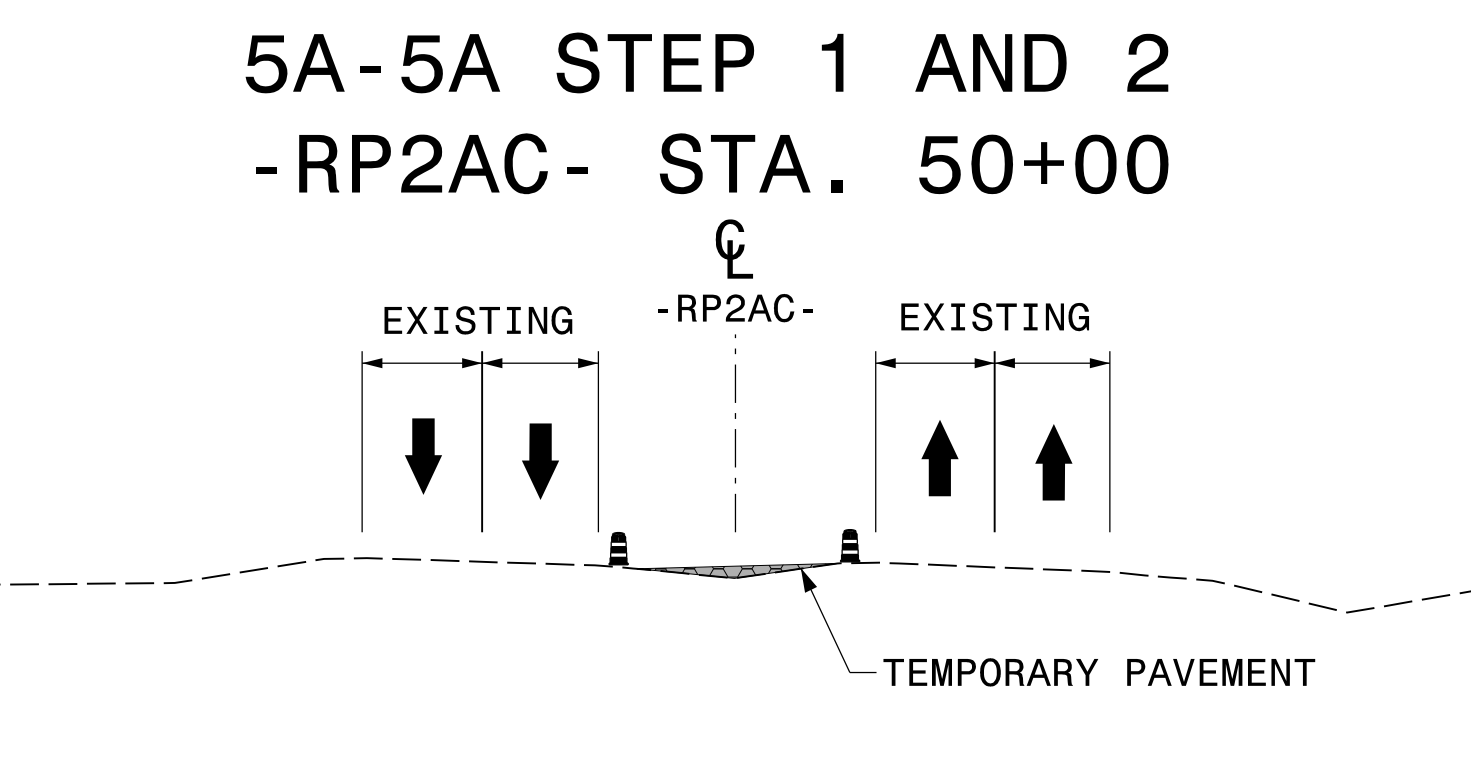
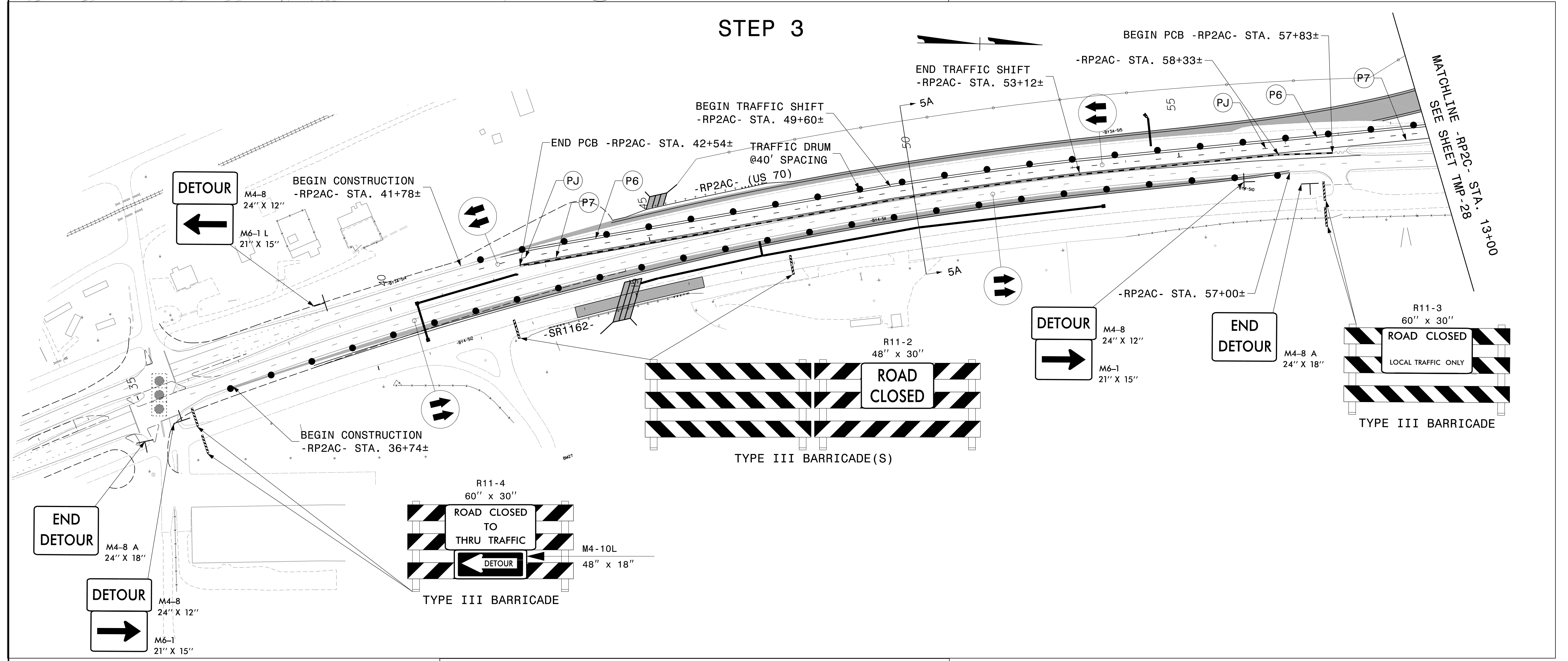
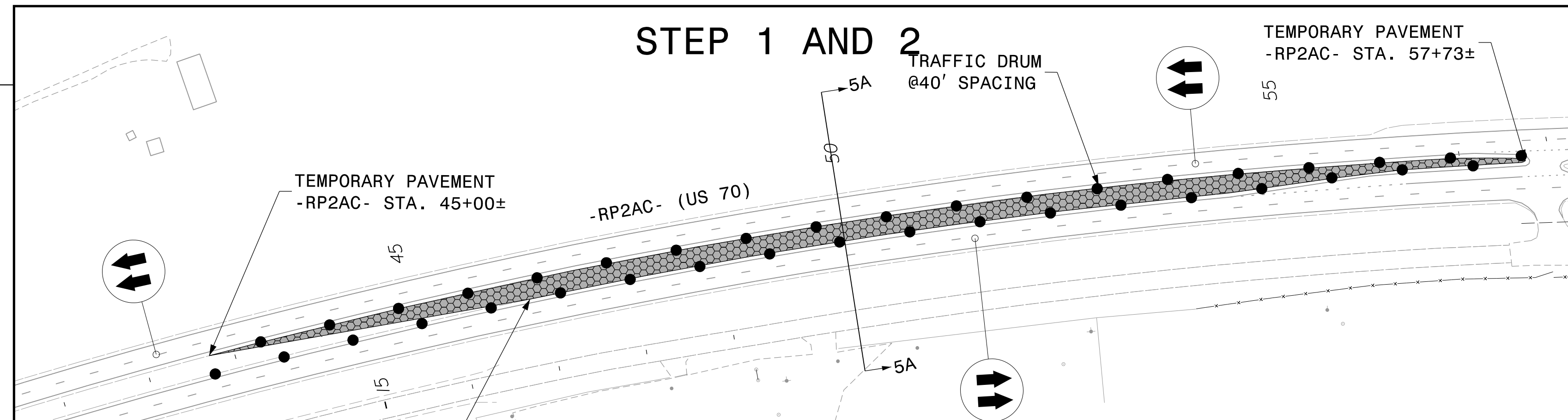
DATE: 5/13/2019

SEAL




AREA 4
PHASE 2

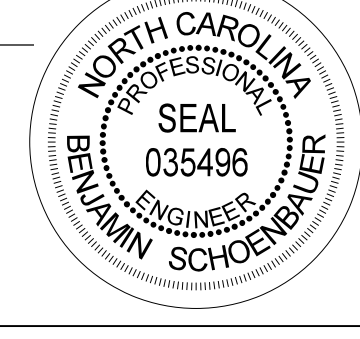
PROJ. REFERENCE NO. R - 1015	SHEET NO. TMP - 27
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St., Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



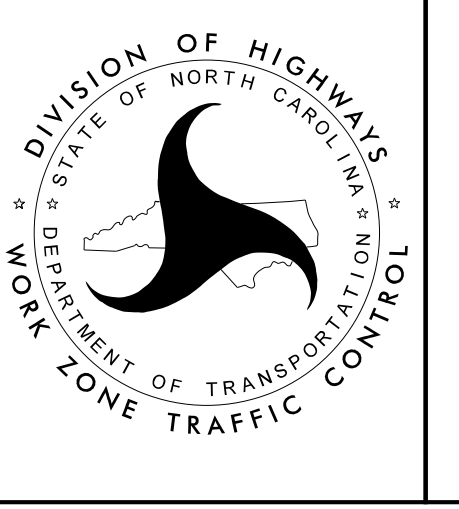
APPROVED: *Ben Schoenberger*

DATE: 12/4/2018

SEAL



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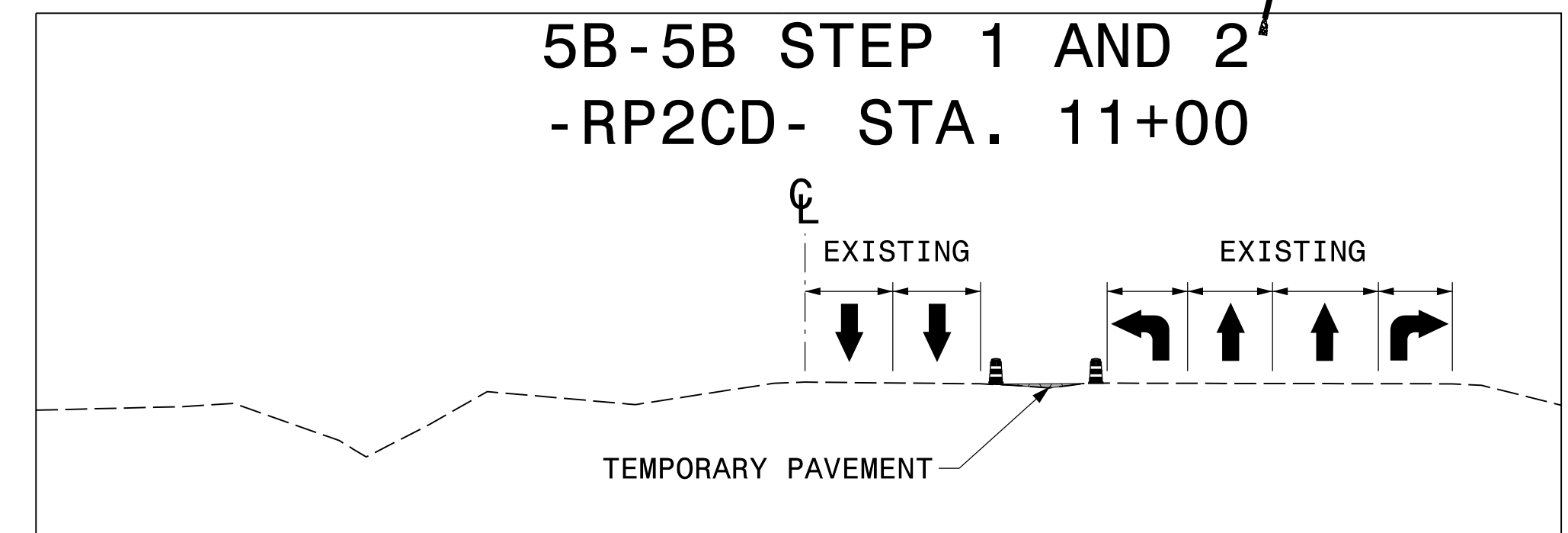
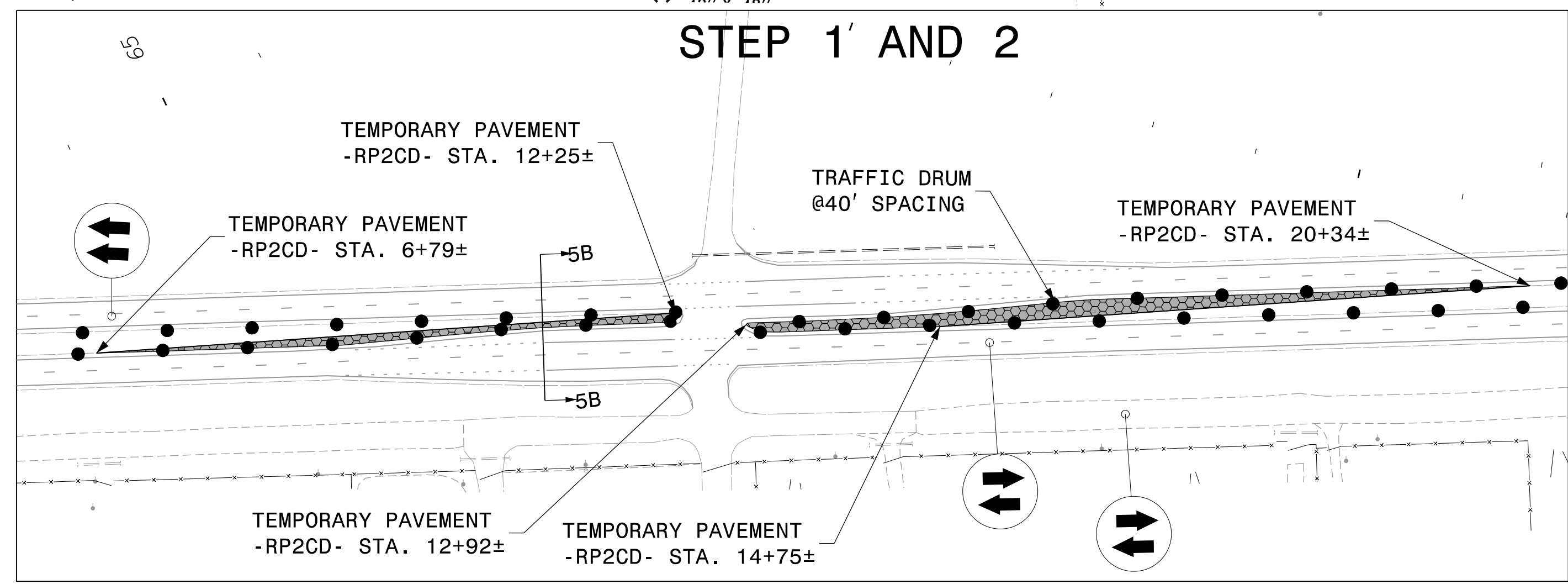
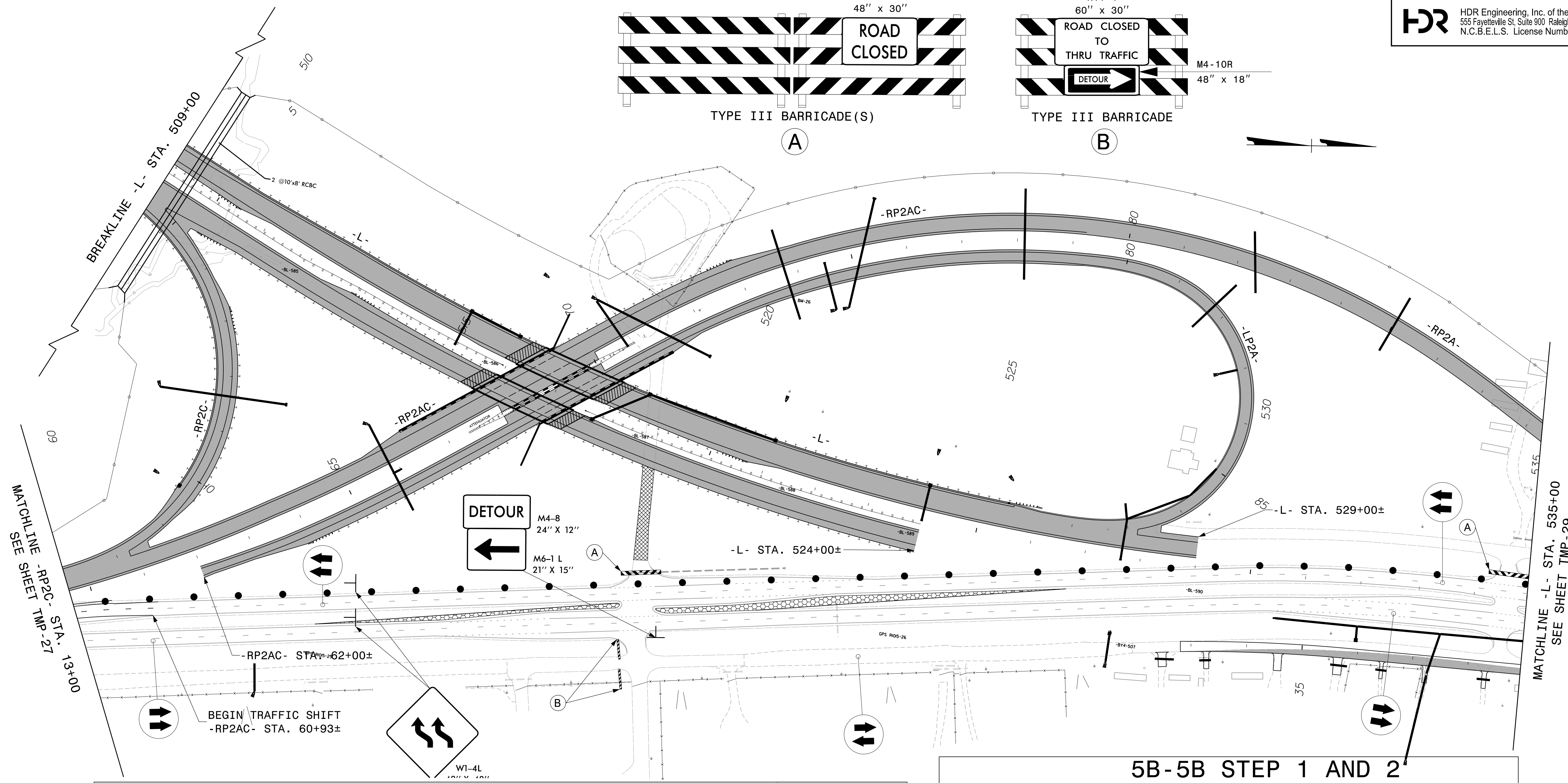
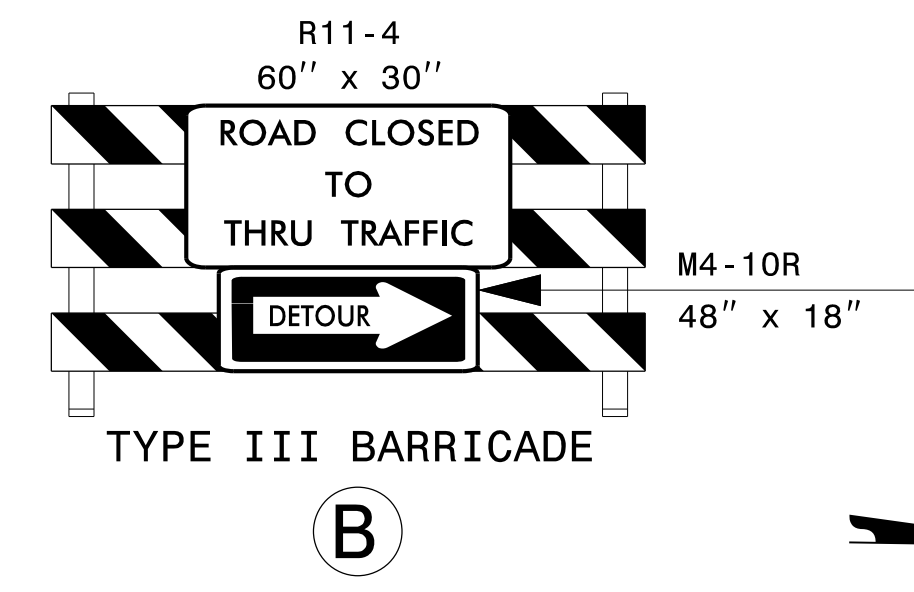
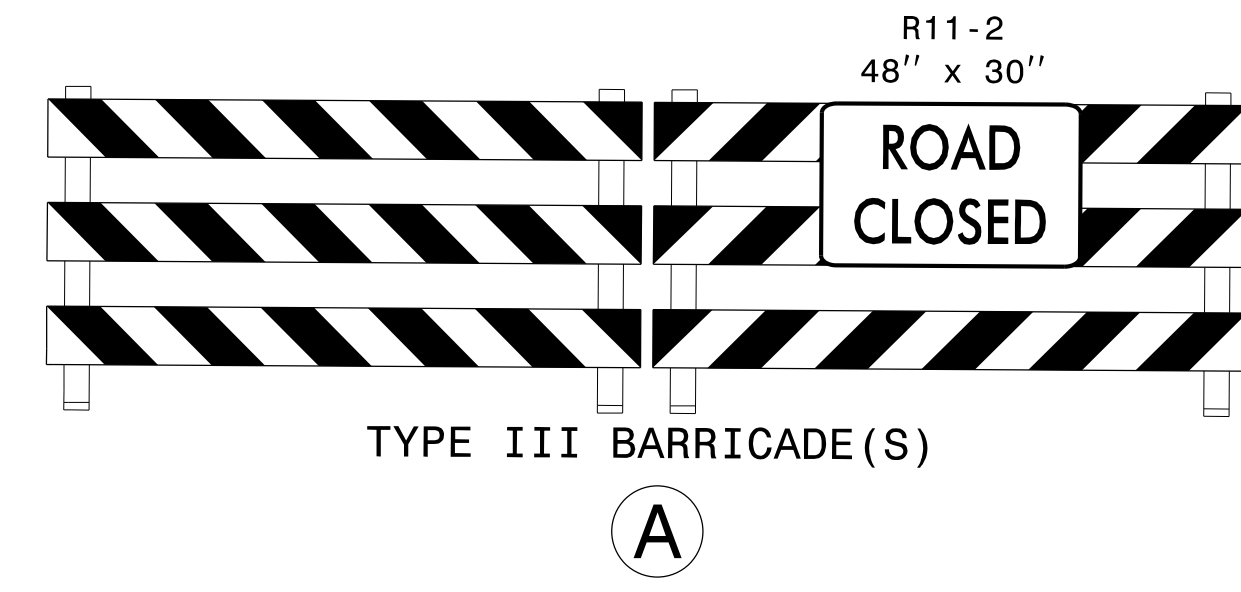


AREA 5

PHASE 1

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REVISIONS



REVISIONS

PLOT DRIVER: NCDOT_color_eng_100.plt
 USER: JWILES
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APPROVED: *Ben Schoenberger*
 DATE: 12/4/2018
 SEAL

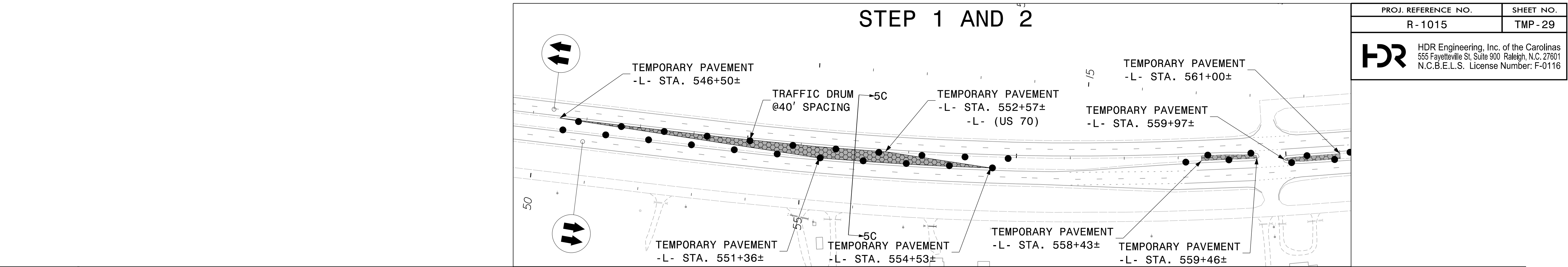



AREA 5
 PHASE 1

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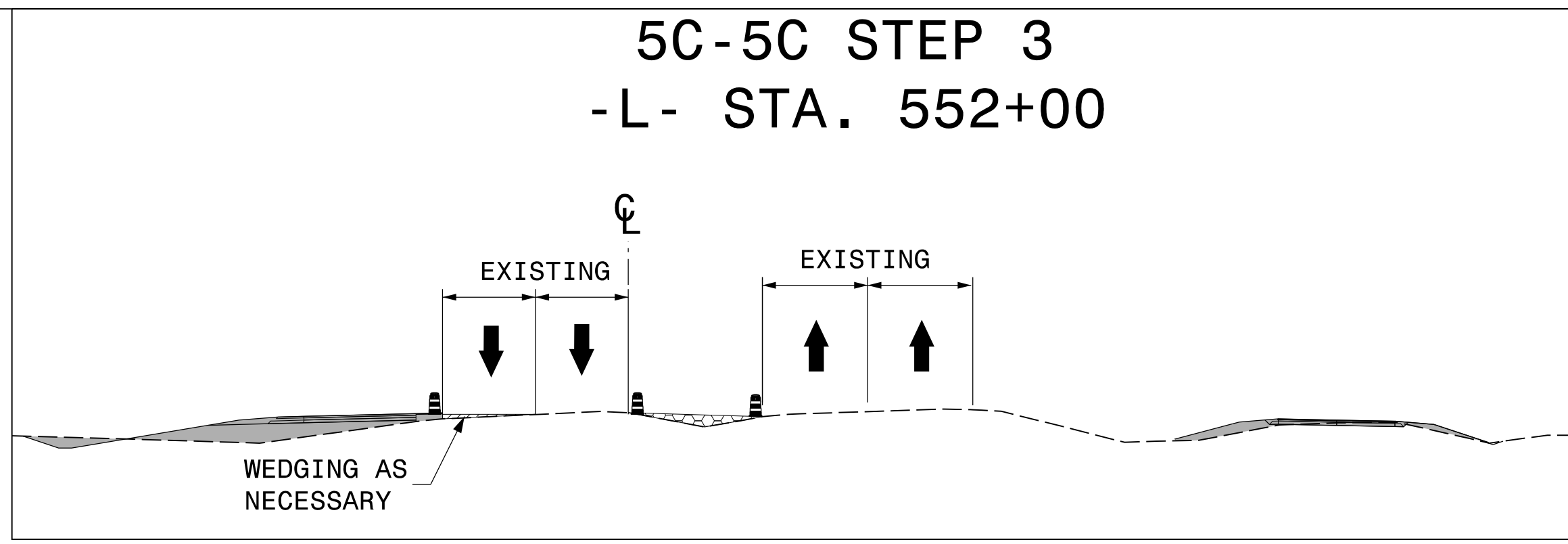
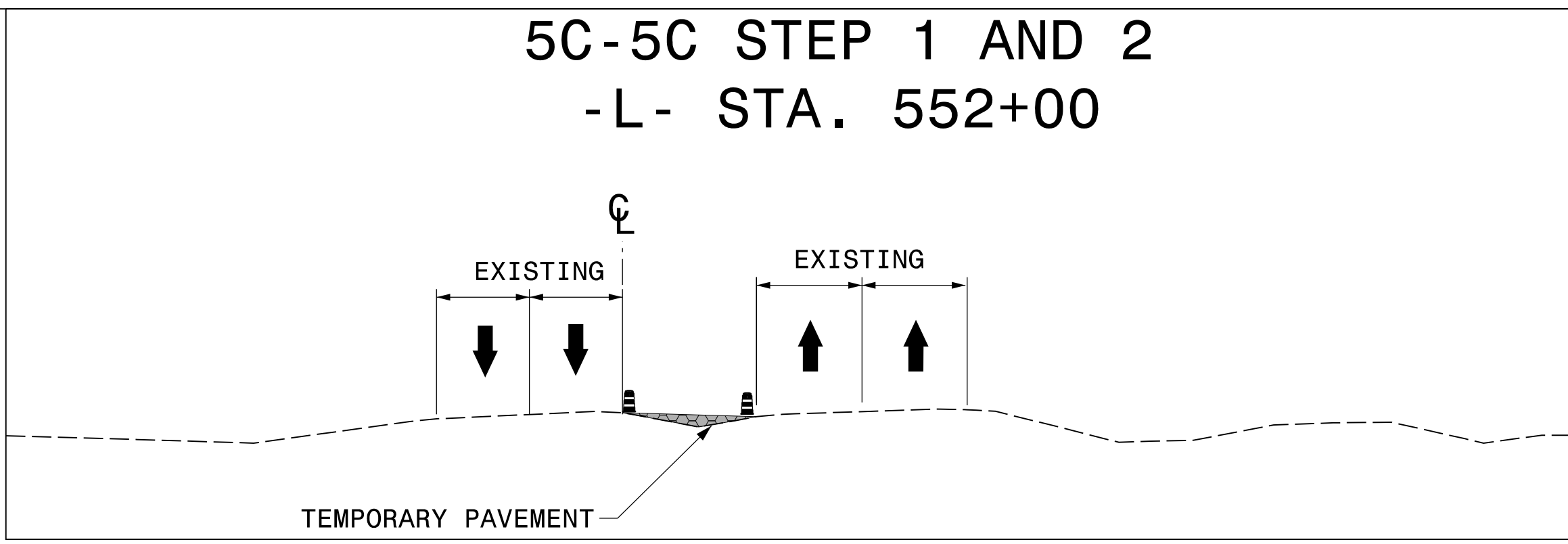
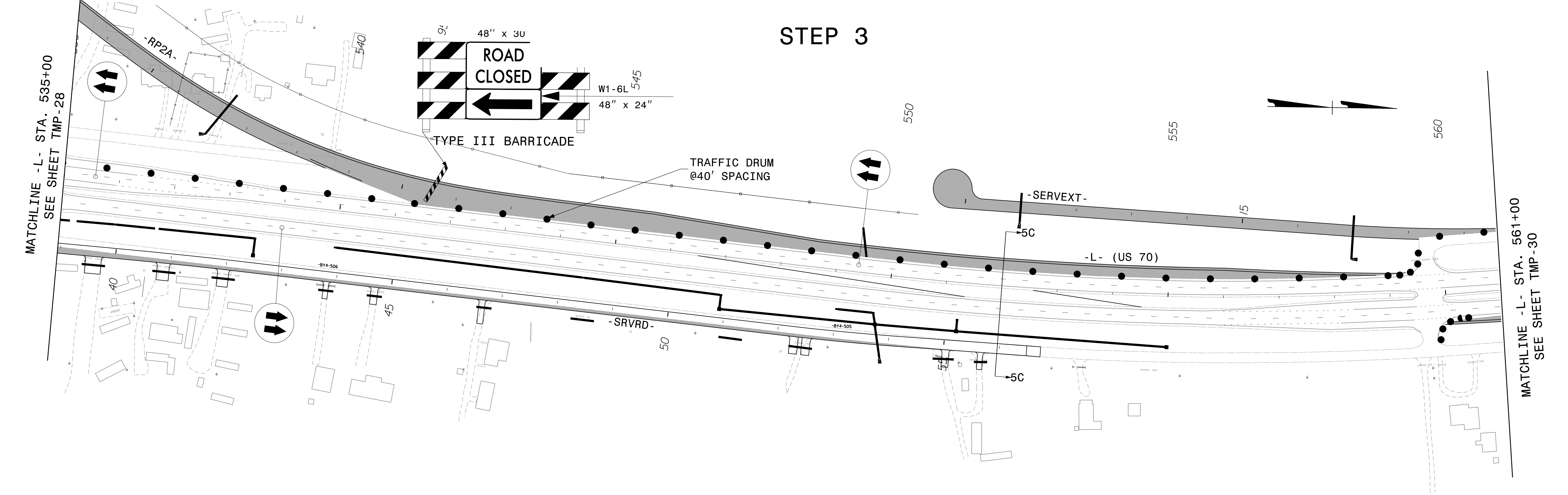
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REVISIONS



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R - 1015	TMP - 29

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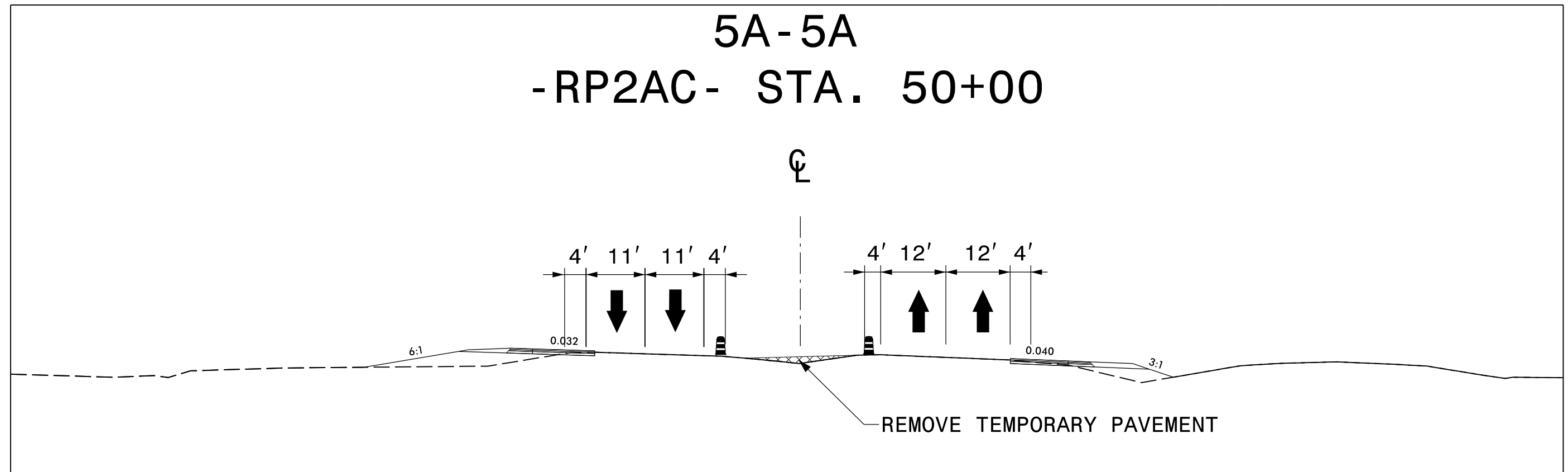
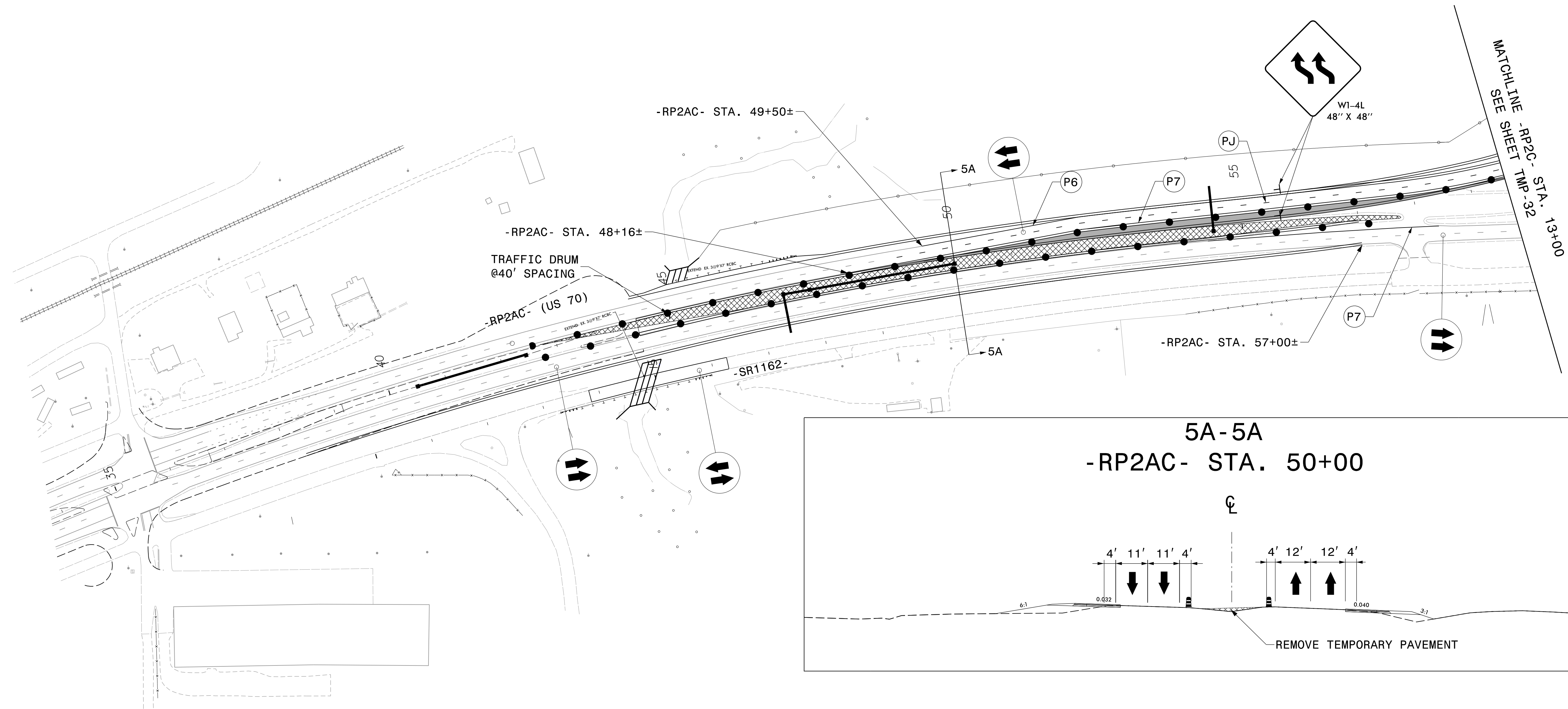



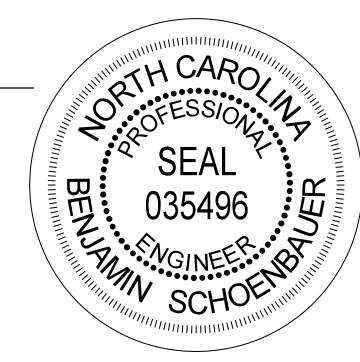

**AREA 5
 PHASE 1**

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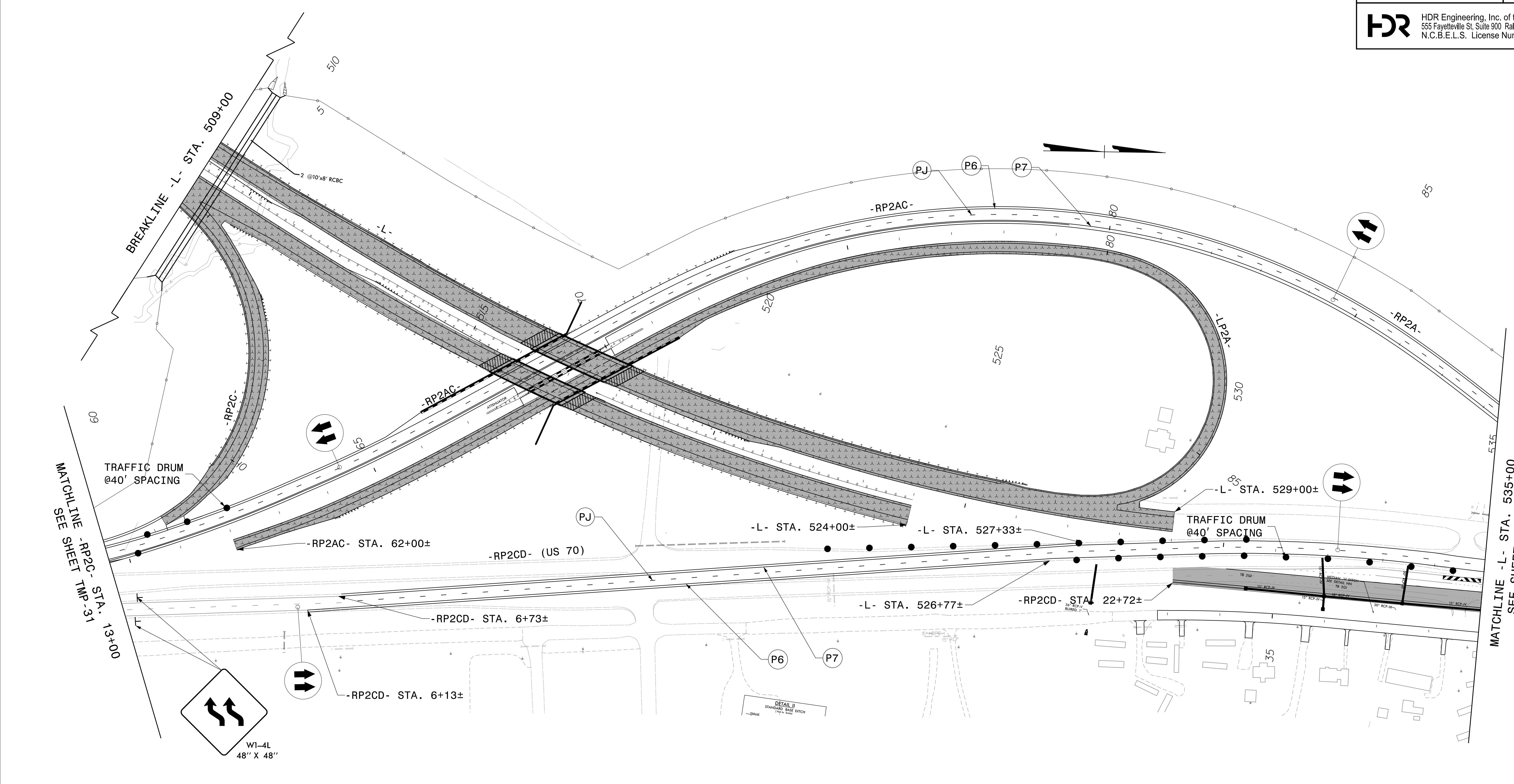
REVISIONS

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APPROVED:  DATE: 12/4/2018 SEAL 		AREA 5 PHASE 2
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REVISIONS

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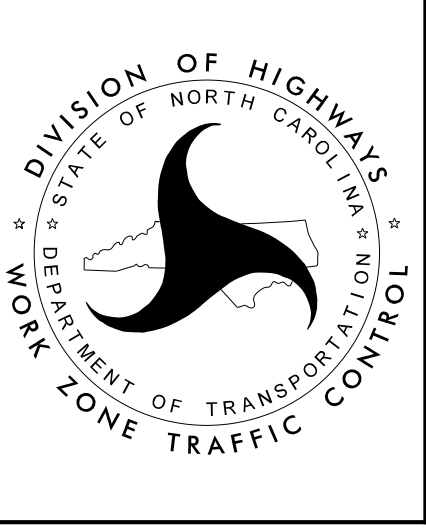
APPROVED: *Ben Schoenbuer*

DATE: 12/4/2018

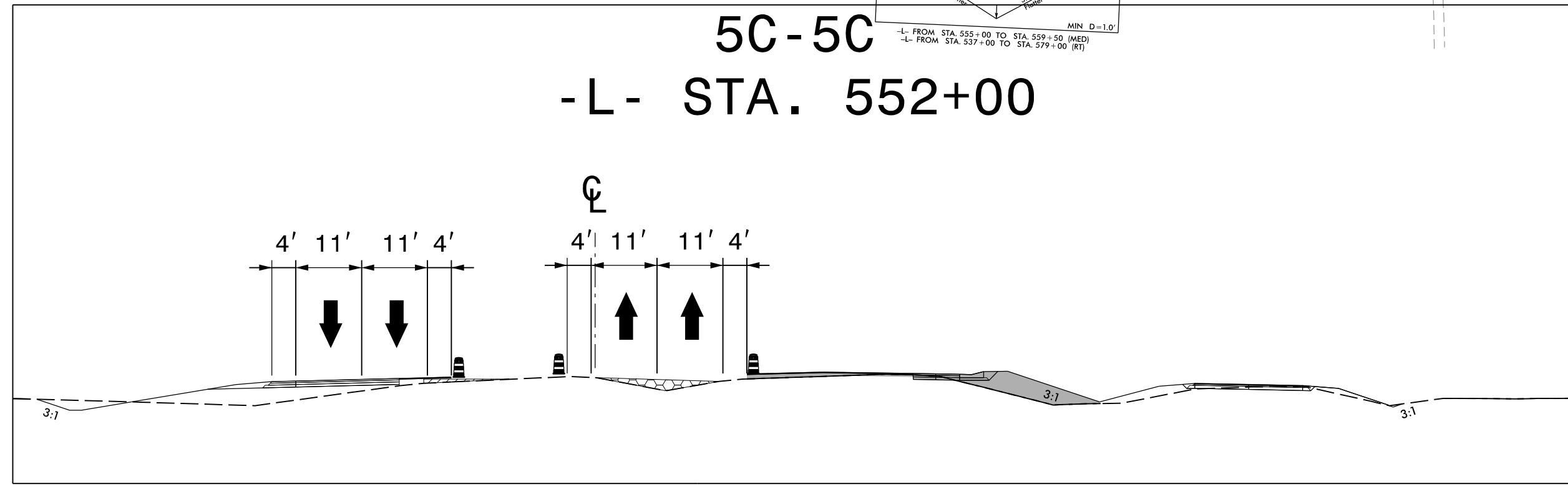
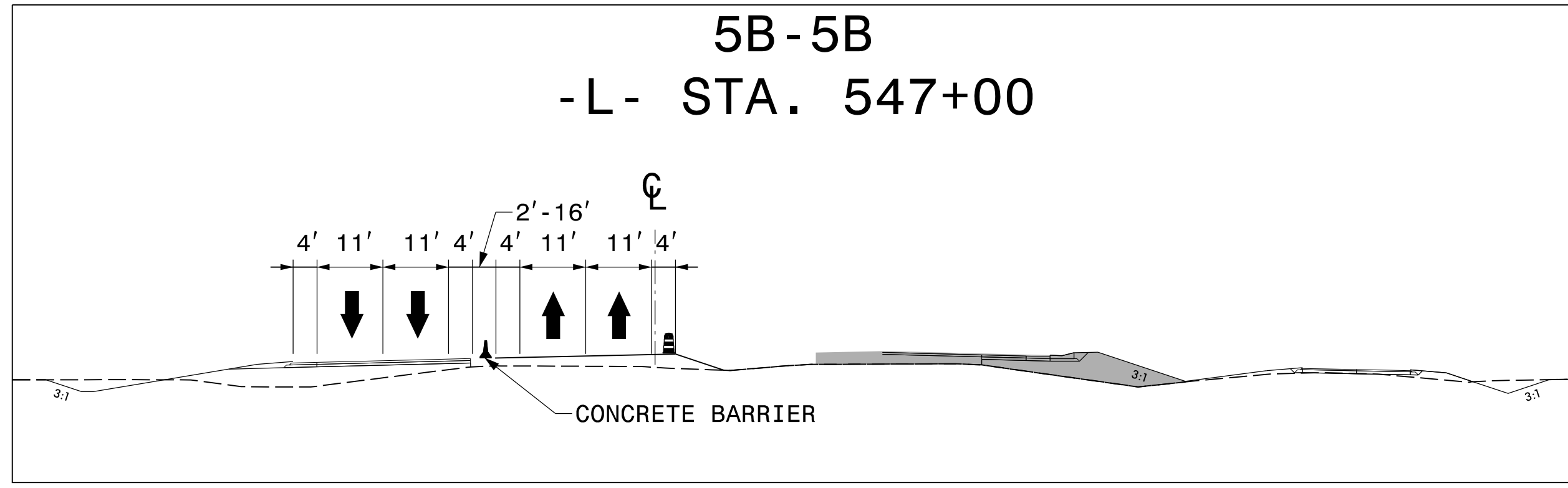
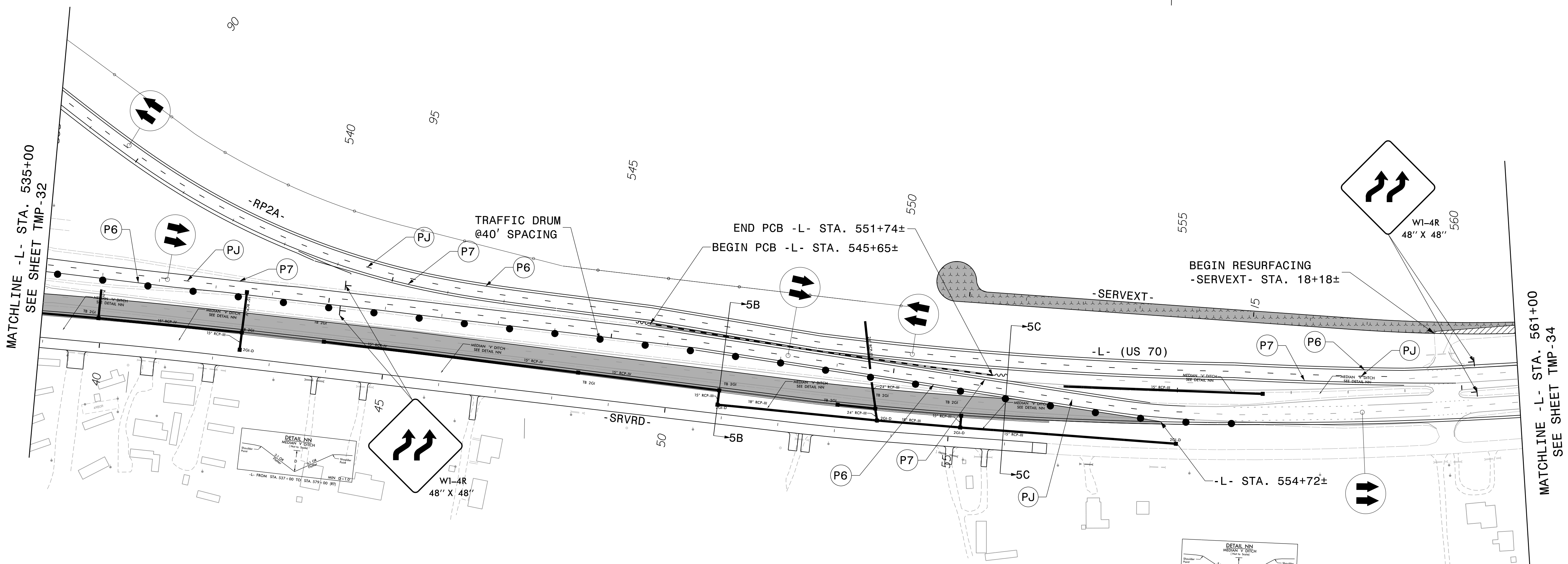
SEAL



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**AREA 5
PHASE 2**

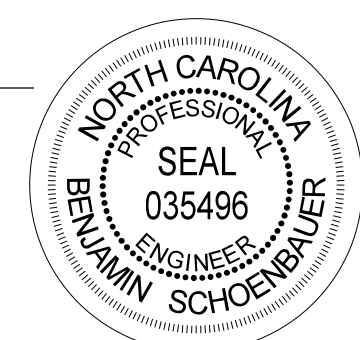


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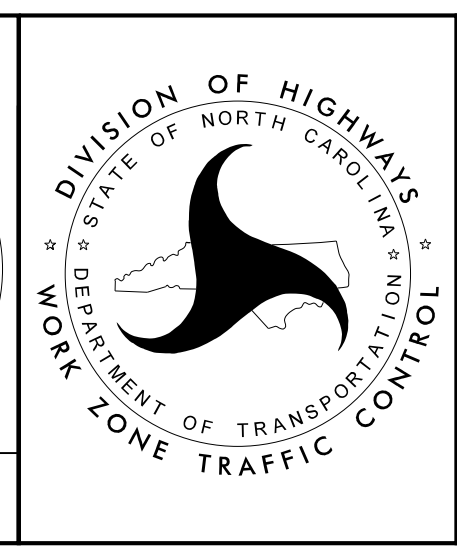
REVISIONS

APPROVED: *Ben Schoenberger*
 DATE: 12/4/2018

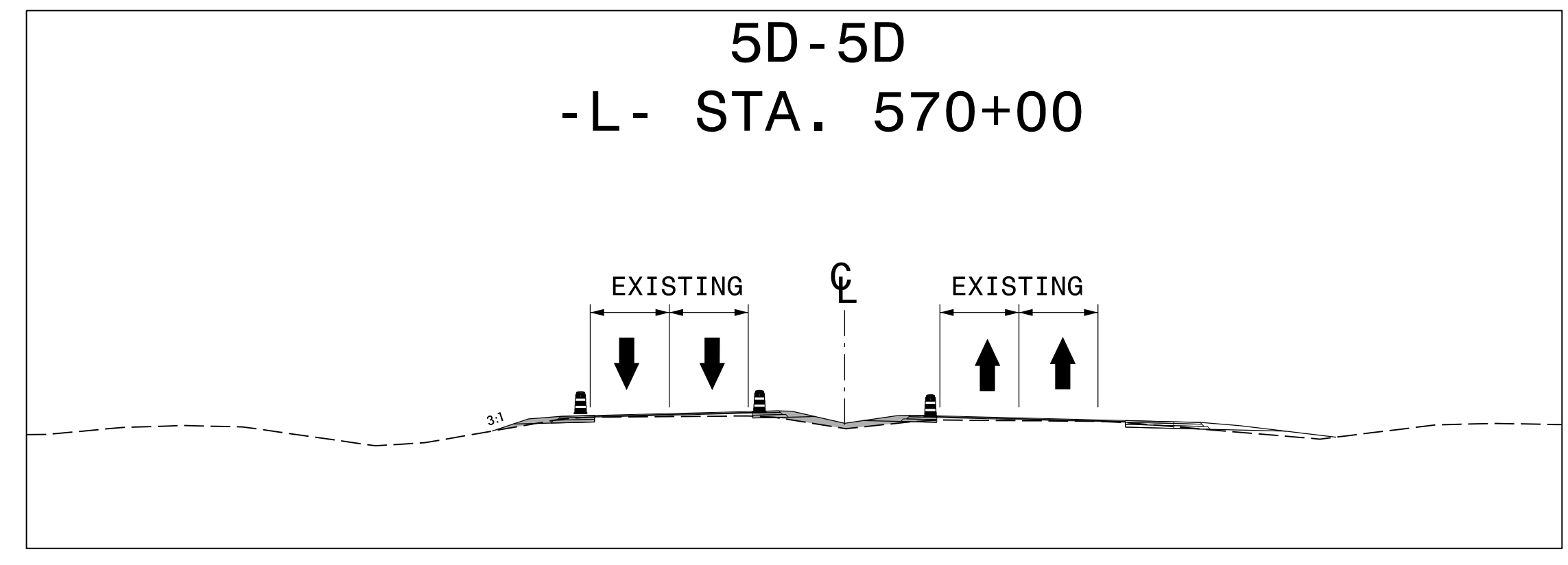
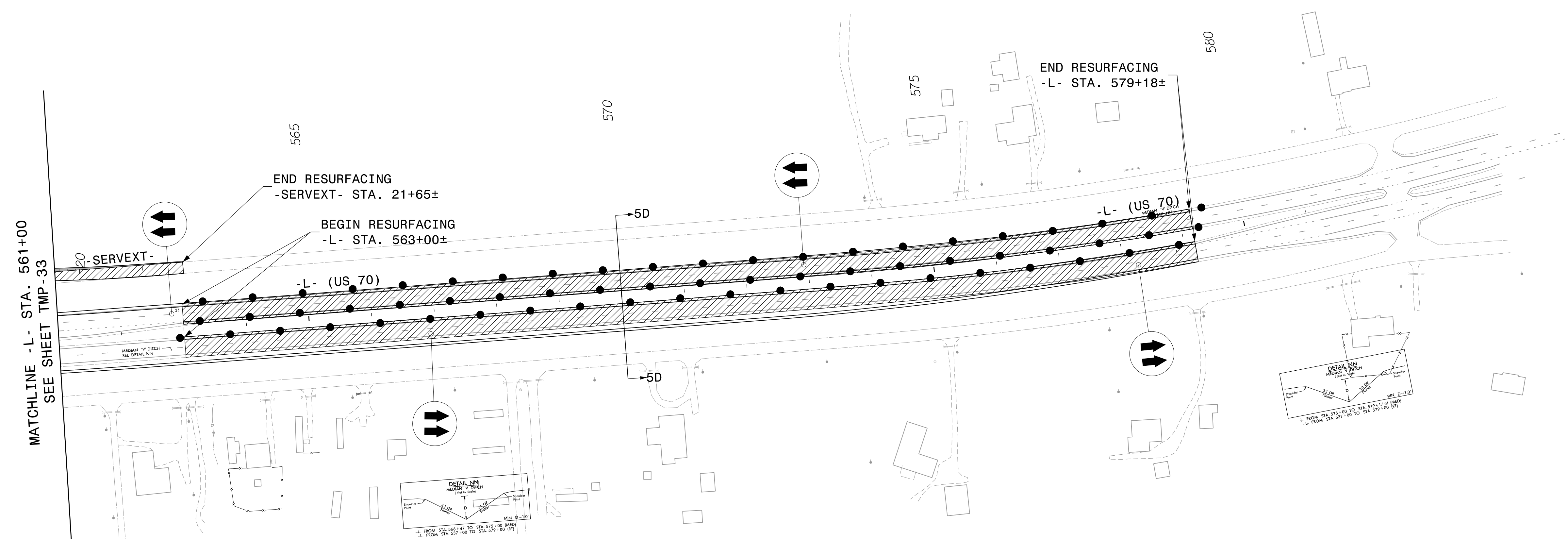
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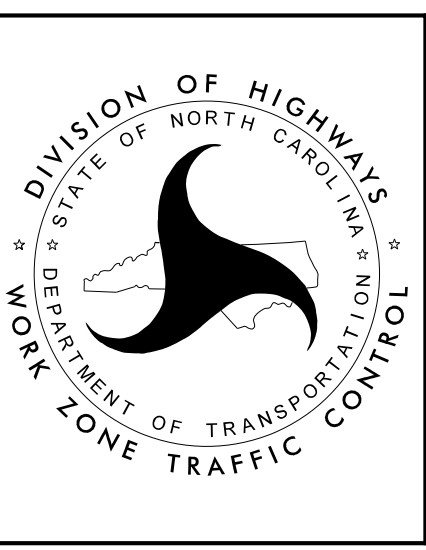


AREA 5
PHASE 2



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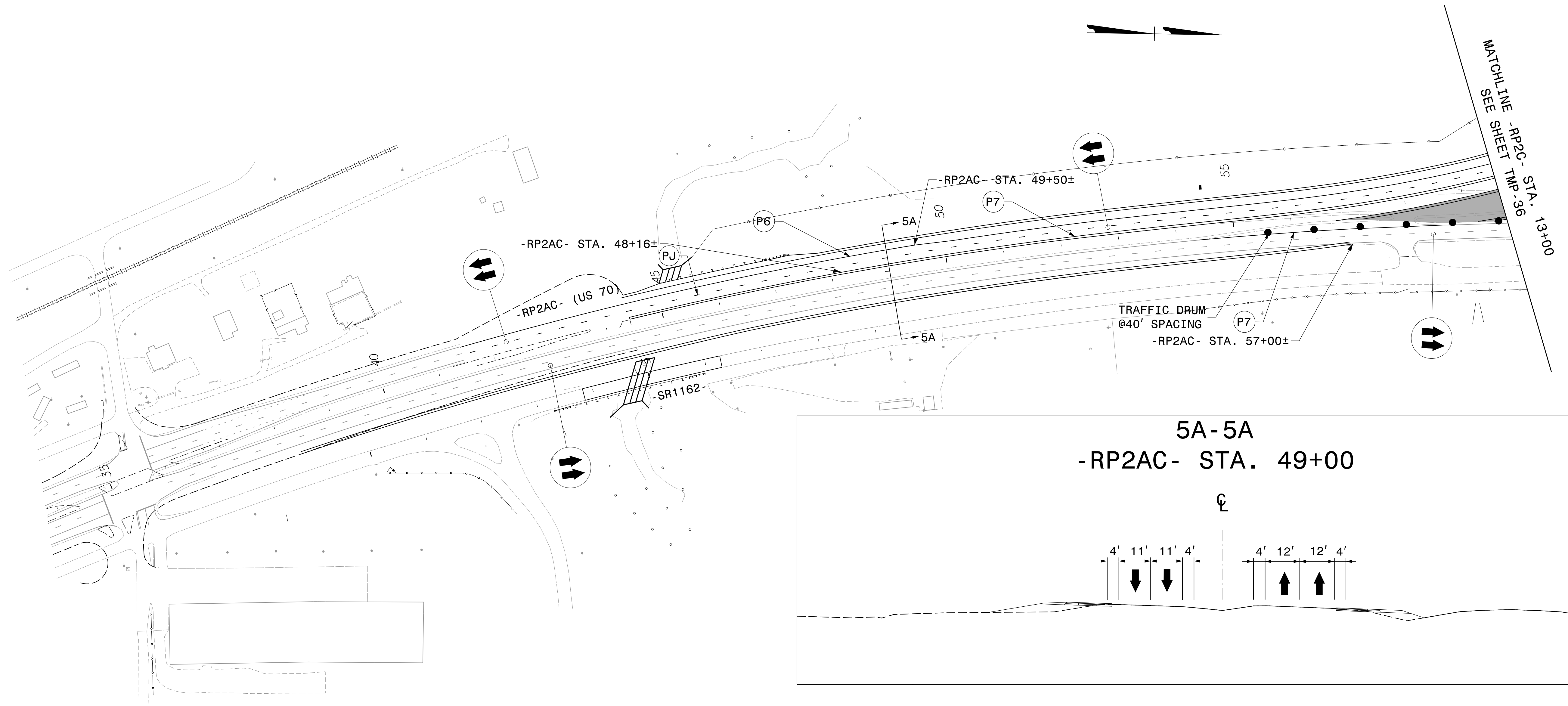
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AREA 5
 PHASE 2

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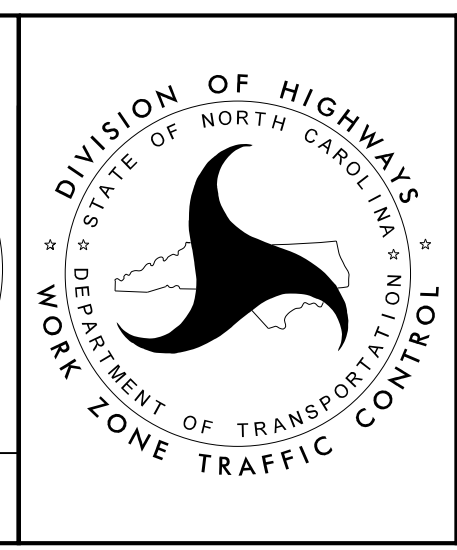
REVISIONS



REVISIONS

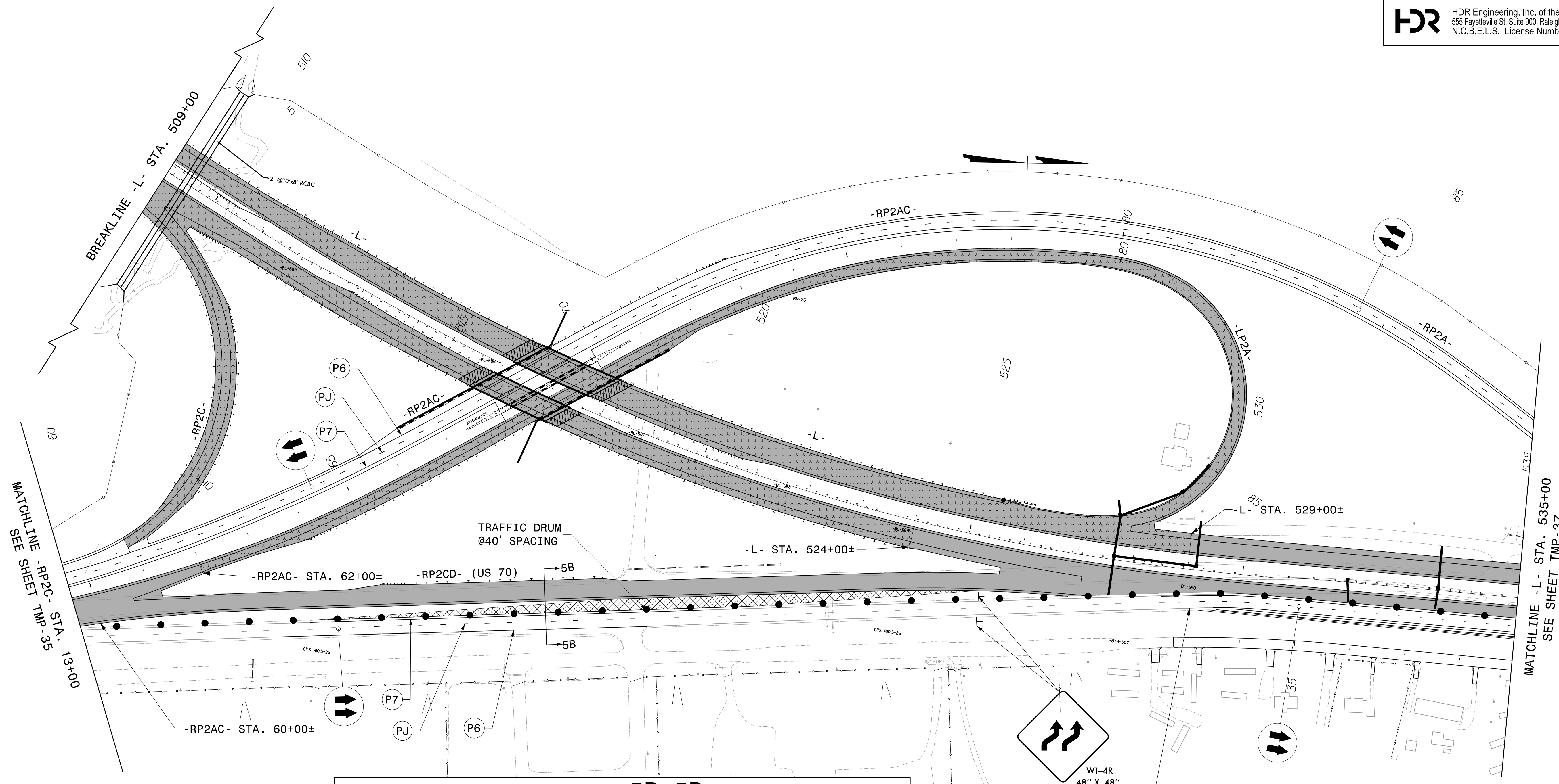
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APPROVED: *Ben Schoenberger*
 DATE: 12/4/2018
 SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 BENJAMIN SCHOENBERGER
 035496



AREA 5
 PHASE 3

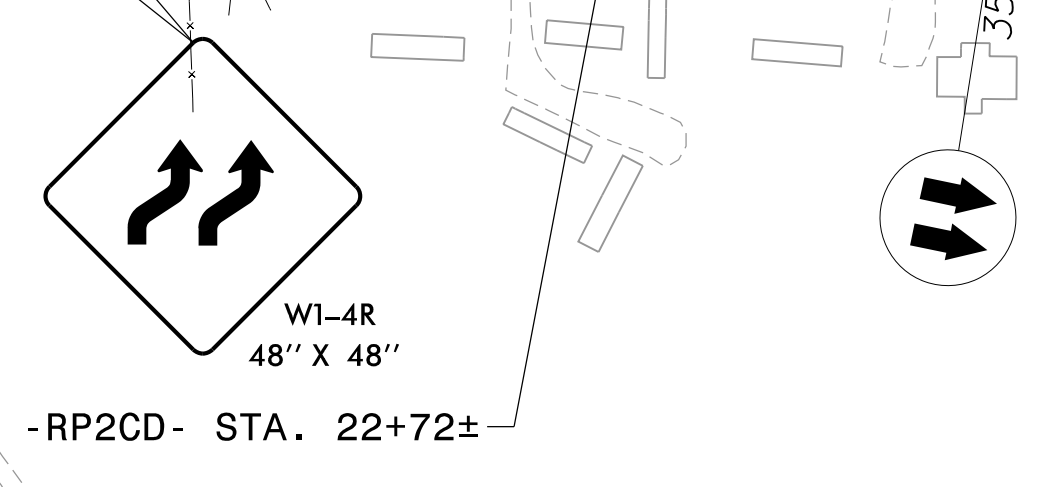
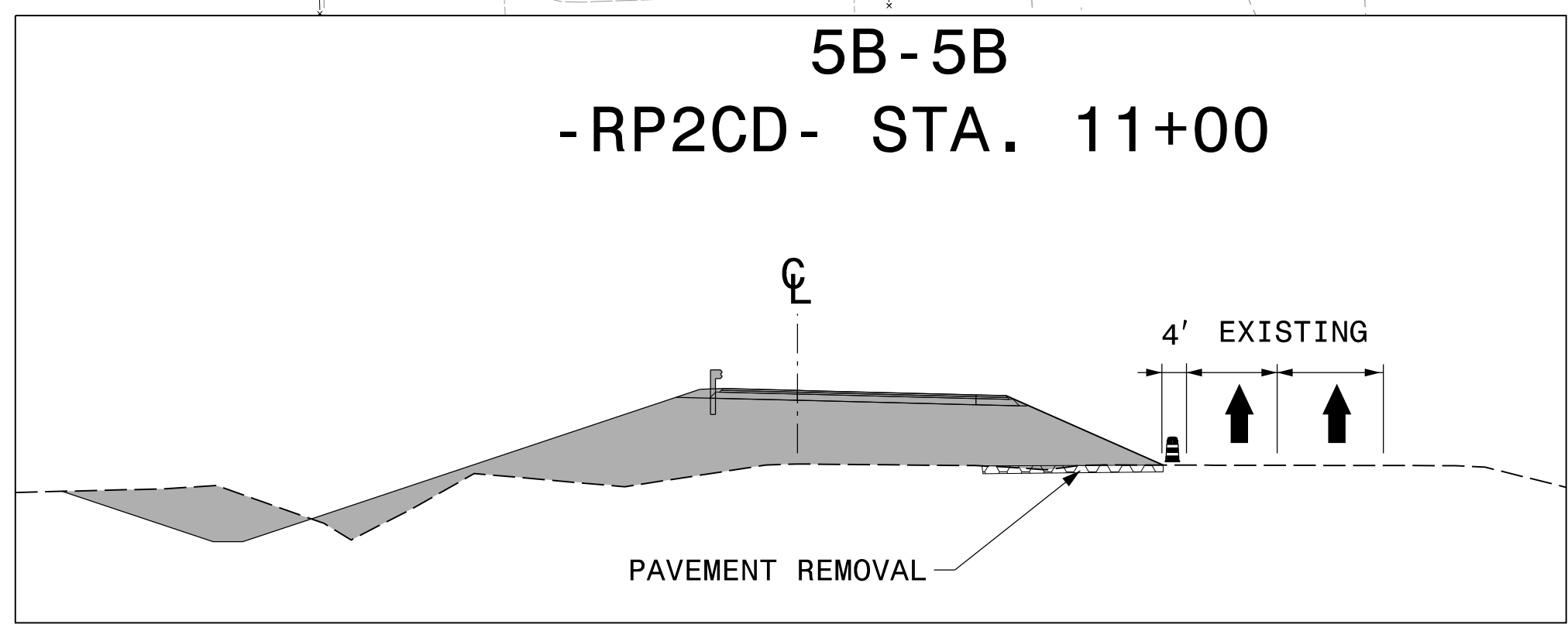
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MATCHLINE -R- STA. 13+00
SEE SHEET TMP-35

MATCHLINE -L- STA. 535+00
SEE SHEET TMP-37

REVISIONS



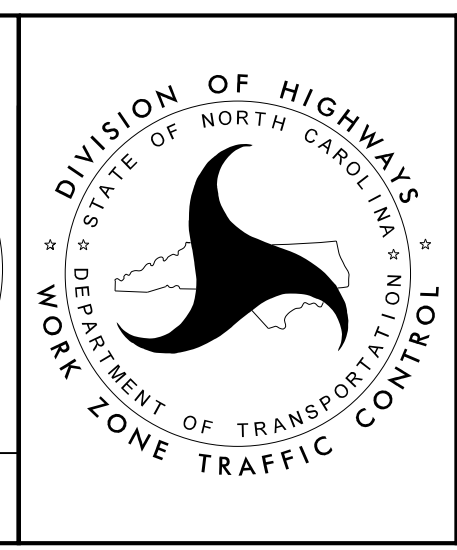
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APPROVED: *Ben Schoenbuer*

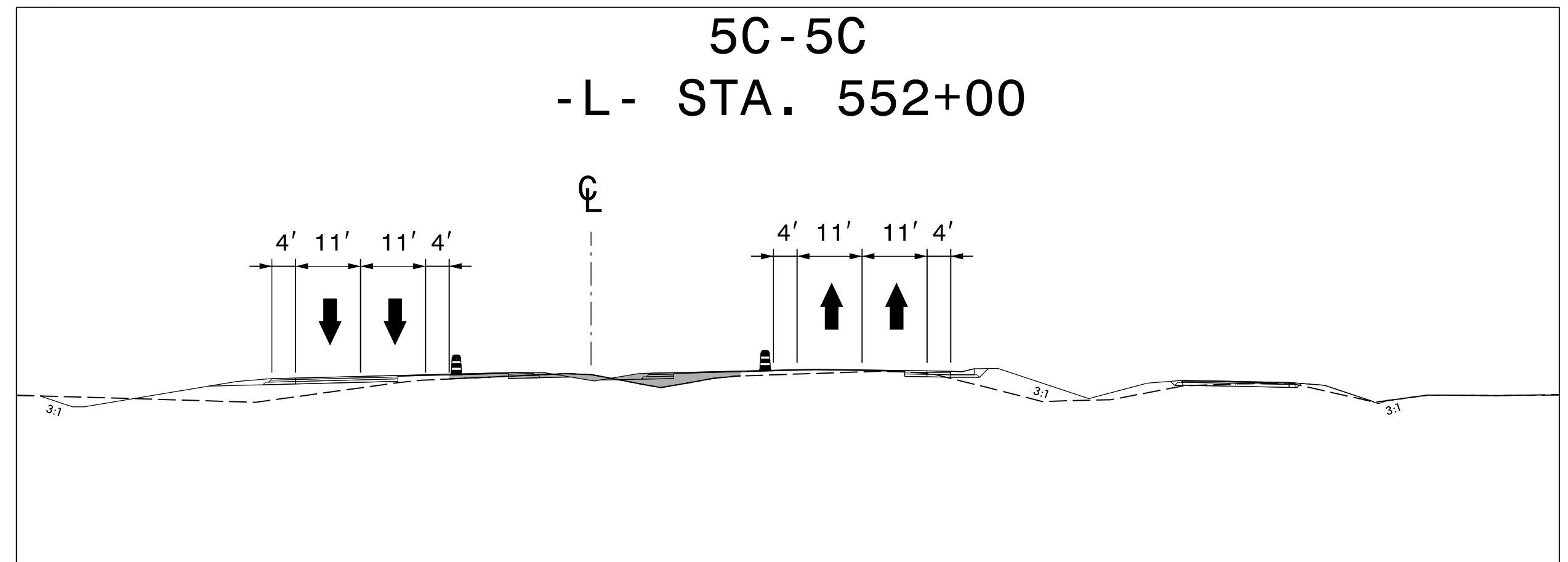
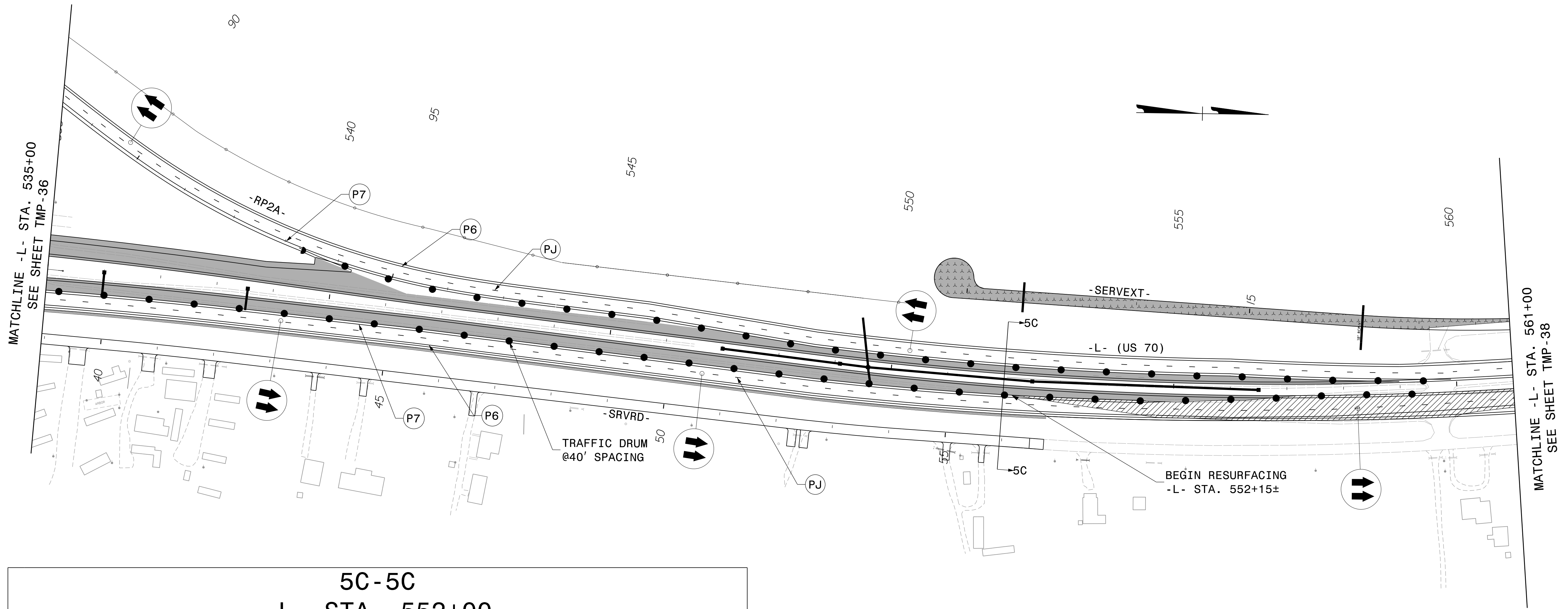
DATE: 12/4/2018

SEAL

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AREA 5
PHASE 3




REVISIONS

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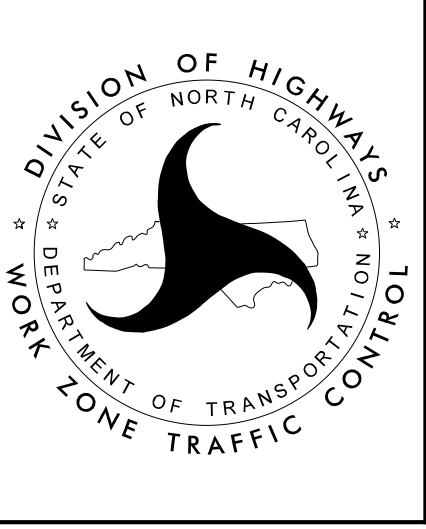
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DATE: 12/4/2018

SEAL



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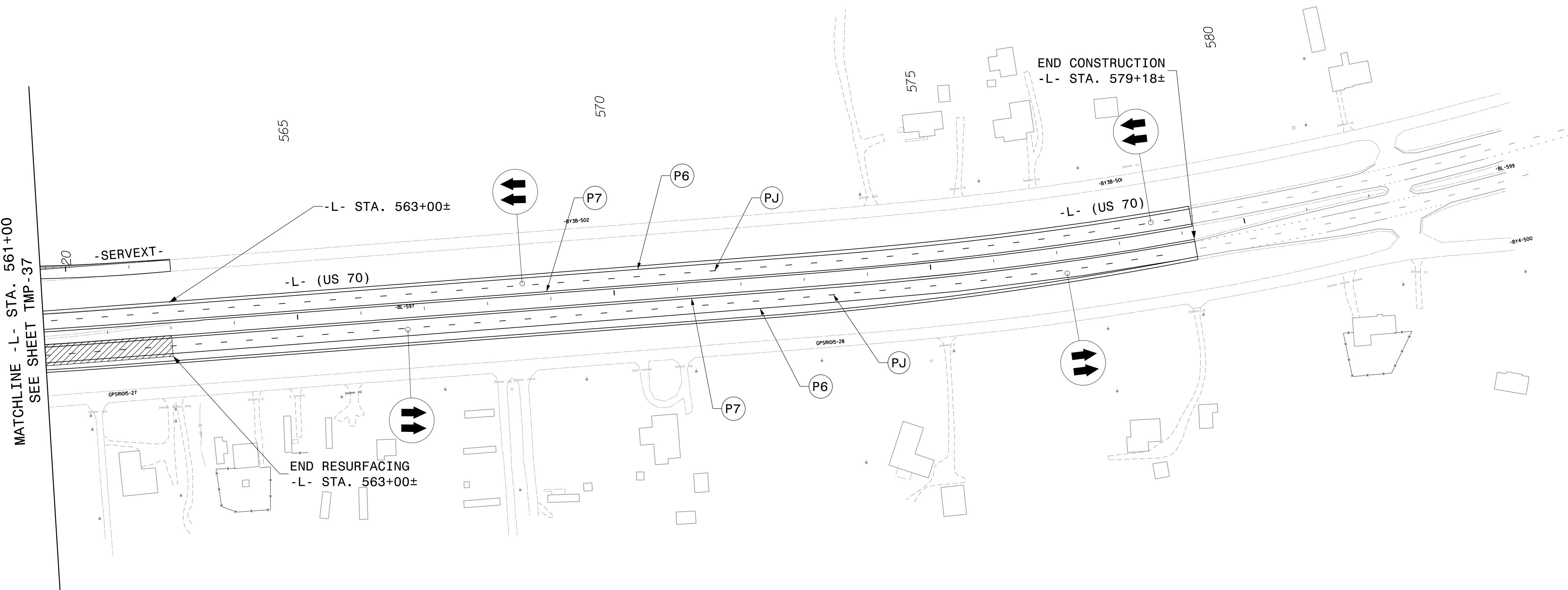


AREA 5
 PHASE 3

REVISIONS

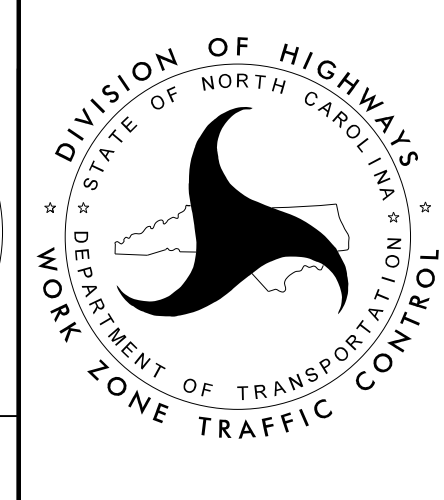
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MATCHLINE -L- STA. 561+00
SEE SHEET TMP-37



APPROVED: *Ben Schoenbuer*
DATE: 12/4/2018
SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
035496
ENGINEER
BENJAMIN SCHOENBUER

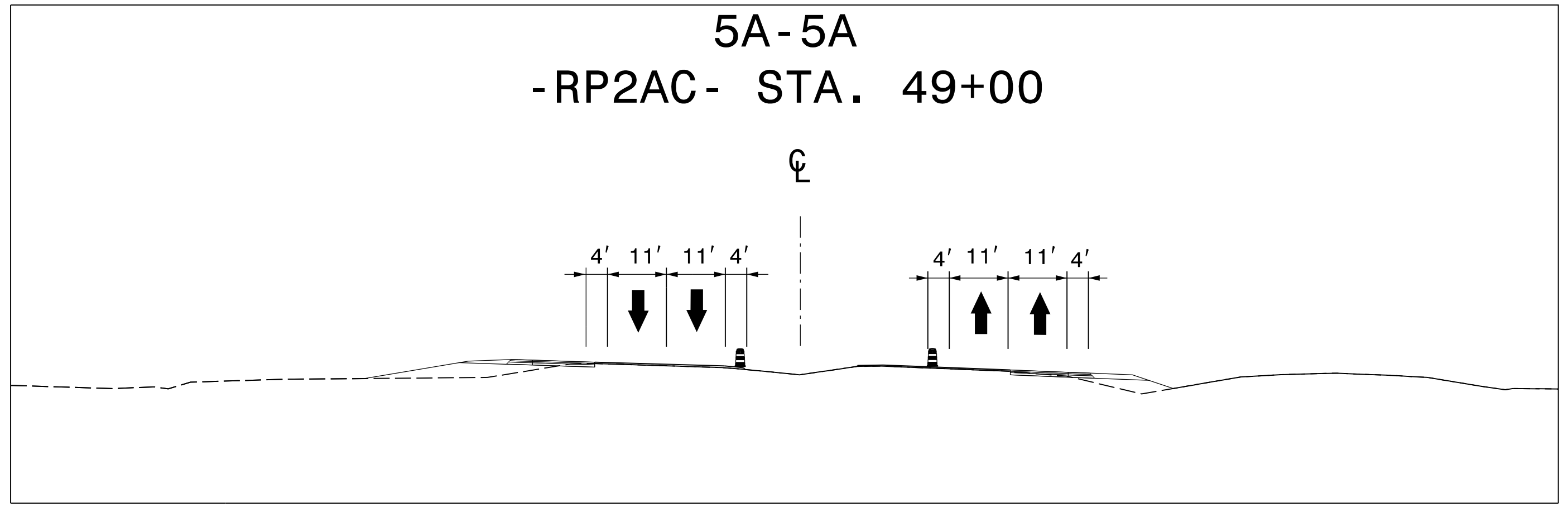
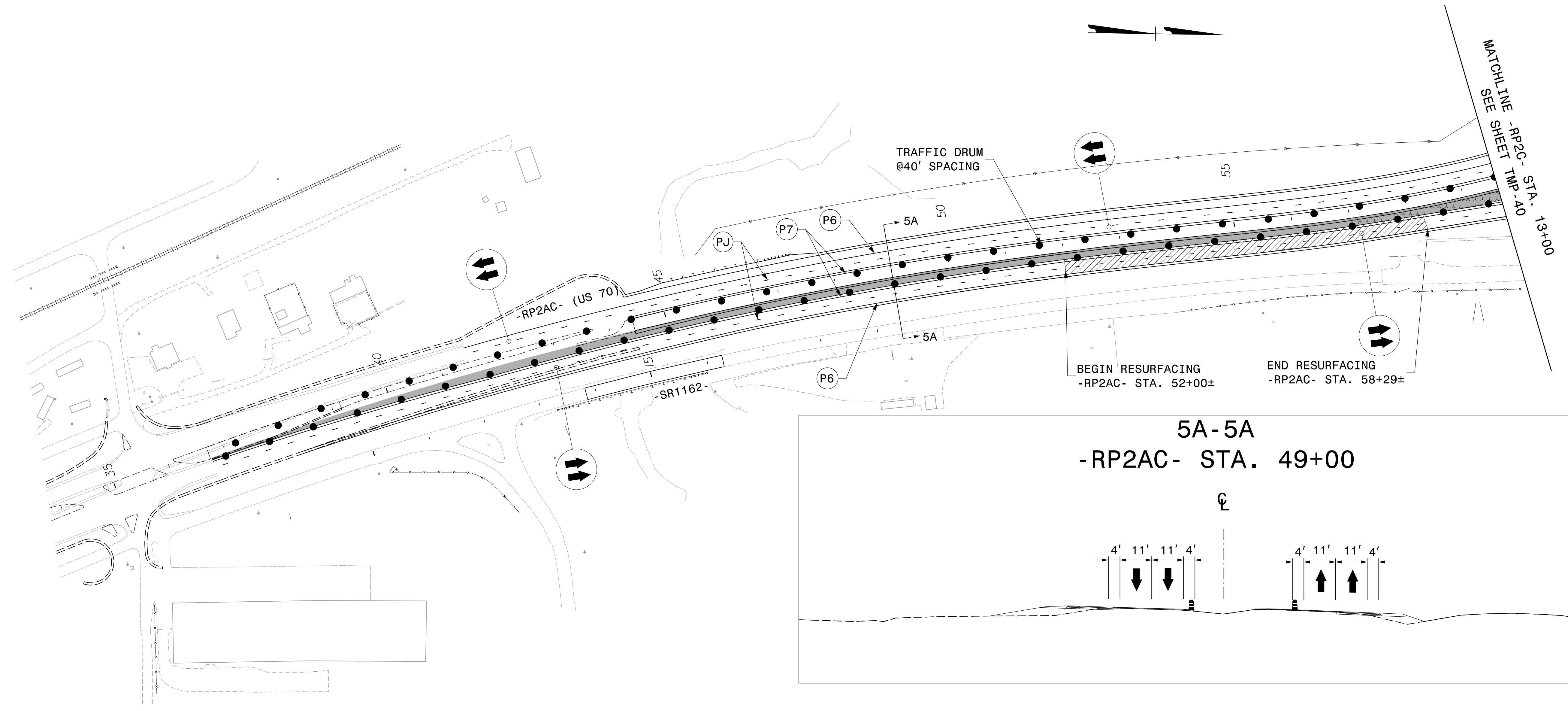
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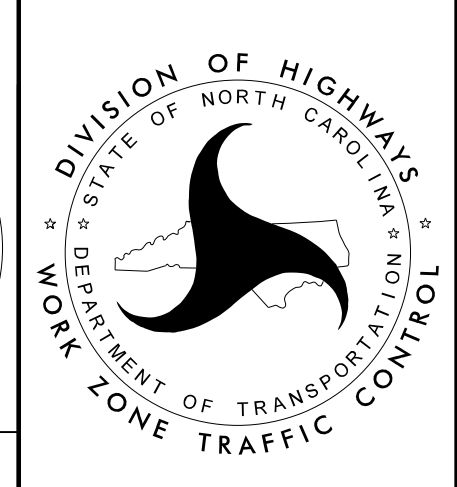
AREA 5
PHASE 3

REVISIONS

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APPROVED: *Ben Schoenbuer*
 DATE: 12/4/2018
 SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
 BENJAMIN SCHOENBUER
 035496

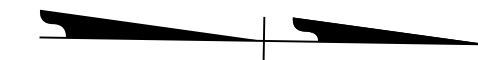
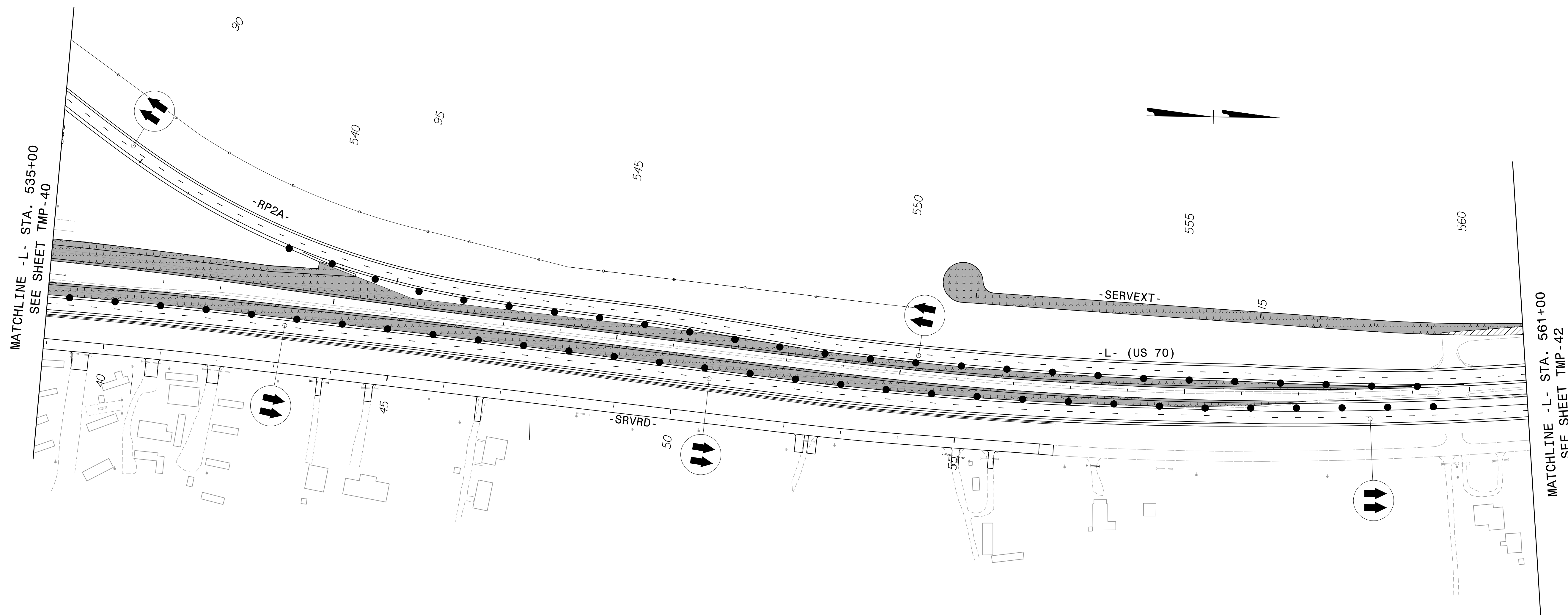


AREA 5
PHASE 4

**DOCUMENT NOT CONSIDERED FINAL
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REVISIONS

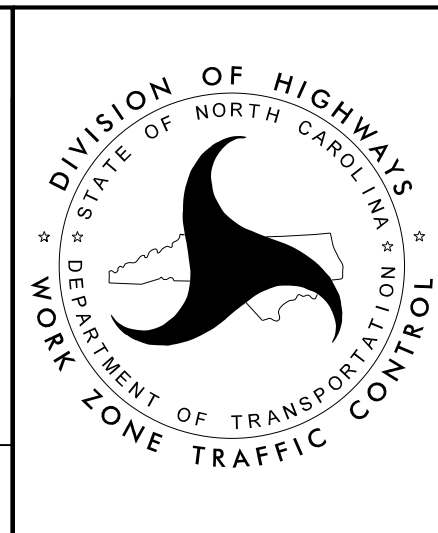


APPROVED: *Ben Schoenberger*
 DATE: 12/4/2018

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ENGINEER
 BENJAMIN SCHOENBERGER
 035496

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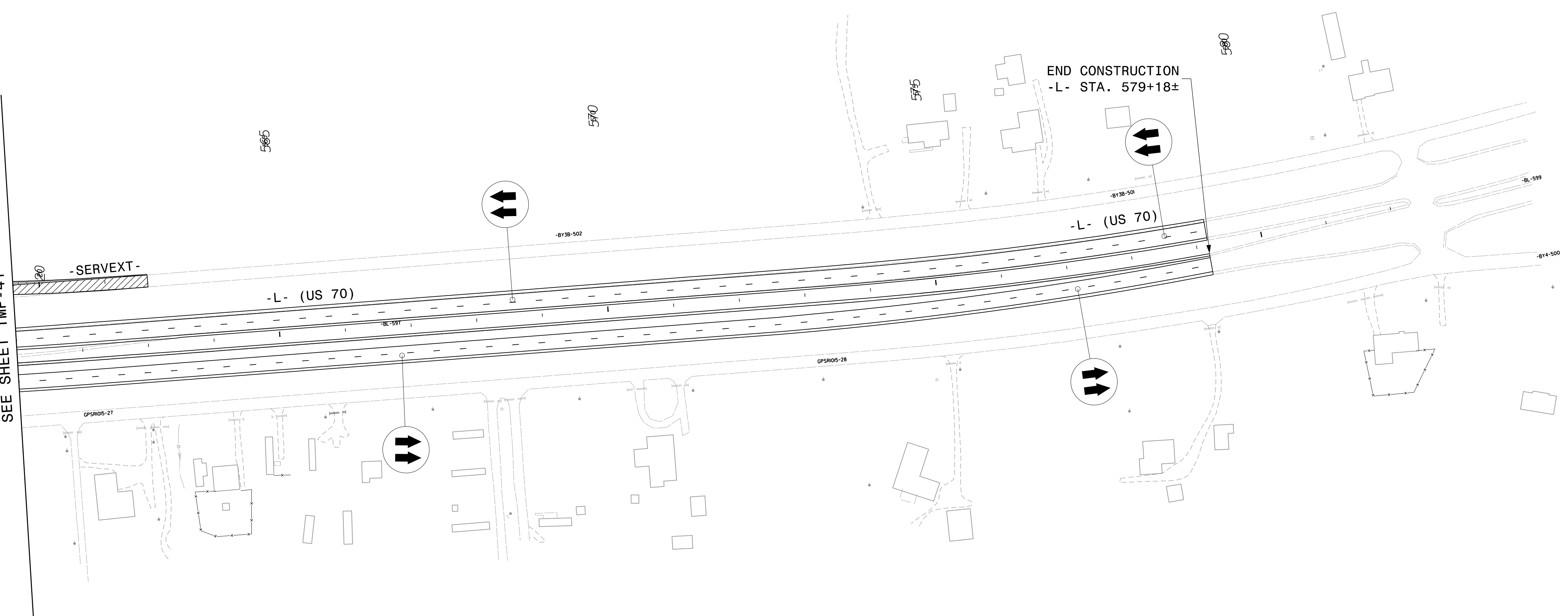


AREA 5
PHASE 4

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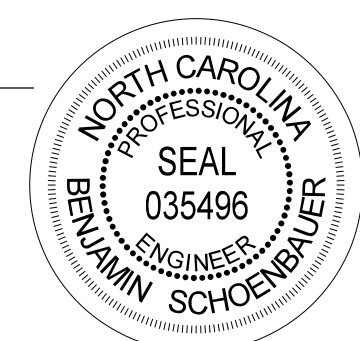
REVISIONS

MATCHLINE -L- STA. 561+00
SEE SHEET TMP-41

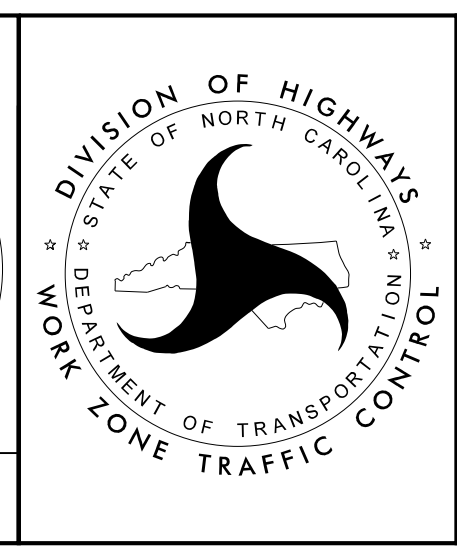


APPROVED: *Ben Schoenberger*
DATE: 12/4/2018

SEAL



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



AREA 5
PHASE 4