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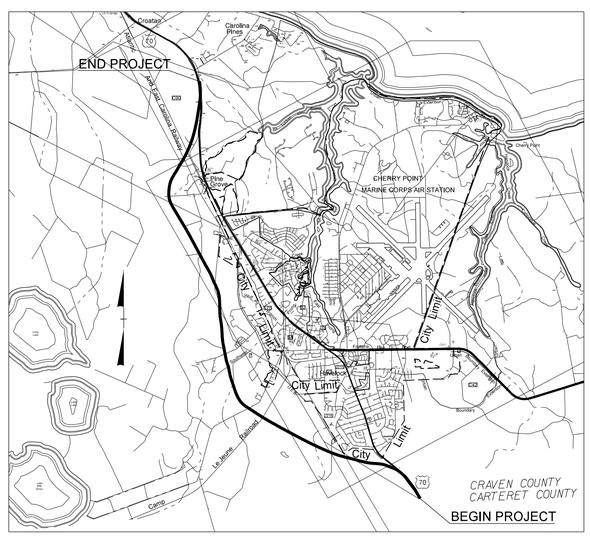
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

INDEX OF SHEETS

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

SHEET NO.
TMP-1

R-1015

TIP PROJECT:

PLAN PREPARED BY:

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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BEN SCHOENBAUER, P.E. — TRAFFIC CONTROL PROJECT DESIGN ENGINEER
JOHN WILES, P.E. — TRAFFIC CONTROL DESIGN ENGINEER

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WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

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

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

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

NORTH CAROLINA PROFESSIONAL SEAL 035496 ENGINEER BENJAMIN SCHOENBAUER

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555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
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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

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

PAINT (4")

- PA WHITE EDGELINE
- PI YELLOW DOUBLE CENTER

PAINT (6")

- P6 WHITE EDGELINE
- P7 YELLOW EDGELINE
- P11 2 FT.-6 FT./SP. WHITE MINISKIP
- PJ 10 FT. WHITE SKIP
- PK 3 FT.-9 FT./SP. WHITE MINISKIP
- PL WHITE SOLID LANE LINE

PAINT (24")

- P2 WHITE STOPBAR

SYMBOLS

- QA LEFT TURN ARROW
- QC STRAIGHT ARROW
- QE COMBO. RIGHT/STRAIGHT ARROW

APPROVED: Ben Schoenbauer

DATE: 12/4/2018

NORTH CAROLINA PROFESSIONAL SEAL 035496 ENGINEER BENJAMIN SCHOENBAUER

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

ROADWAY STANDARD DRAWINGS & LEGEND

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

PROJECT 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 CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 70 EB	Between Labor Day and Memorial Day Monday through Friday From 5:00 A.M. to 8:00 A.M. And 4:00 P.M. to 7:00 P.M. Between Memorial Day and Labor Day Monday through Thursday From 5:00 A.M. to 8:00 A.M. And 4:00 P.M. to 7:00 P.M. And Friday from 5:00 A.M. to Sunday 7:00 P.M.
US 70 WB	Between Labor Day and Memorial Day Monday through Friday From 6:00 A.M. to 8:00 A.M. And 4:00 P.M. to 7:00 P.M. Between Memorial Day and Labor Day Monday through Thursday From 6:00 A.M. to 8:00 A.M. And 4:00 P.M. to 7:00 P.M. And Friday from 6:00 A.M. to Sunday 7:00 P.M.
-Y- Lines	Monday through Friday From 6:00 A.M. to 8:00 A.M. And 4:00 P.M. to 7:00 P.M.

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

ROAD NAME

US 70
ALL -Y- LINES

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.

2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 5:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.

3. FOR EASTER, BETWEEN THE HOURS OF 5:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.

4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 5:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.

5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 5:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

   IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 5:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 5:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 5:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 5:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

9. FOR CHERRY POINT AIR SHOW , BETWEEN THE HOURS OF 5:00 A.M. THE (DAY) OF THE WEEK OF THE CHERRY POINT AIR SHOW AND 7:00 P.M.THE FOLLOWING (DAY) AFTER THE WEEK OF THE CHERRY POINT AIR SHOW.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 70	MONDAY THROUGH FRIDAY 5:00 A.M. TO 7:00 P.M. AND 5:00 A.M. THE FRIDAY BEFORE MEMORIAL DAY THRU 7:00 P.M. THE TUESDAY FOLLOWING LABOR DAY

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) 500 FT. IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

L) NOTIFY THE ENGINEER THIRTY (30) 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.

APPROVED: Ben Schoenbauer

DATE: 12/17/2018

NORTH CAROLINA PROFESSIONAL SEAL 035496 ENGINEER BENJAMIN SCHOENBAUER

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

PROJECT NOTES

REVISIONS

1 12/17/2018: REVISED GENERAL NOTES

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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.).

APPROVED: Ben Schoenbauer

DATE: 12/17/2018

NORTH CAROLINA PROFESSIONAL SEAL 035496 ENGINEER BENJAMIN SCHOENBAUER

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

PROJECT NOTES
(SHEET 2 OF 2)

REVISIONS

12/17/2018: REVISED GENERAL NOTES

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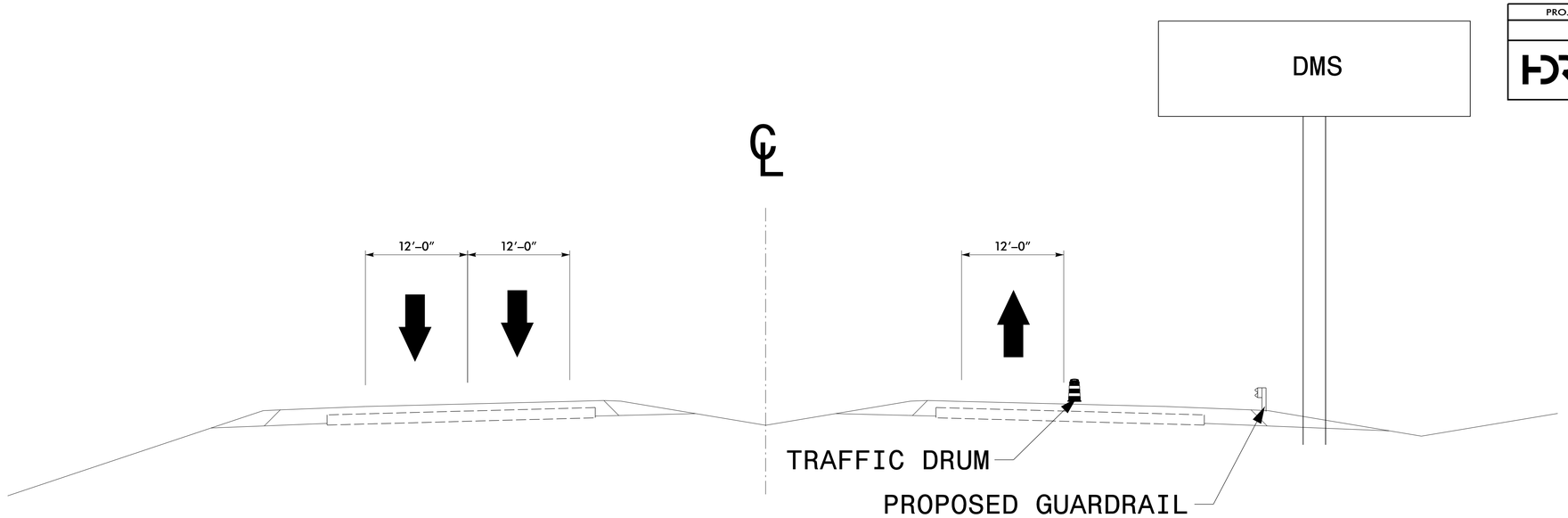
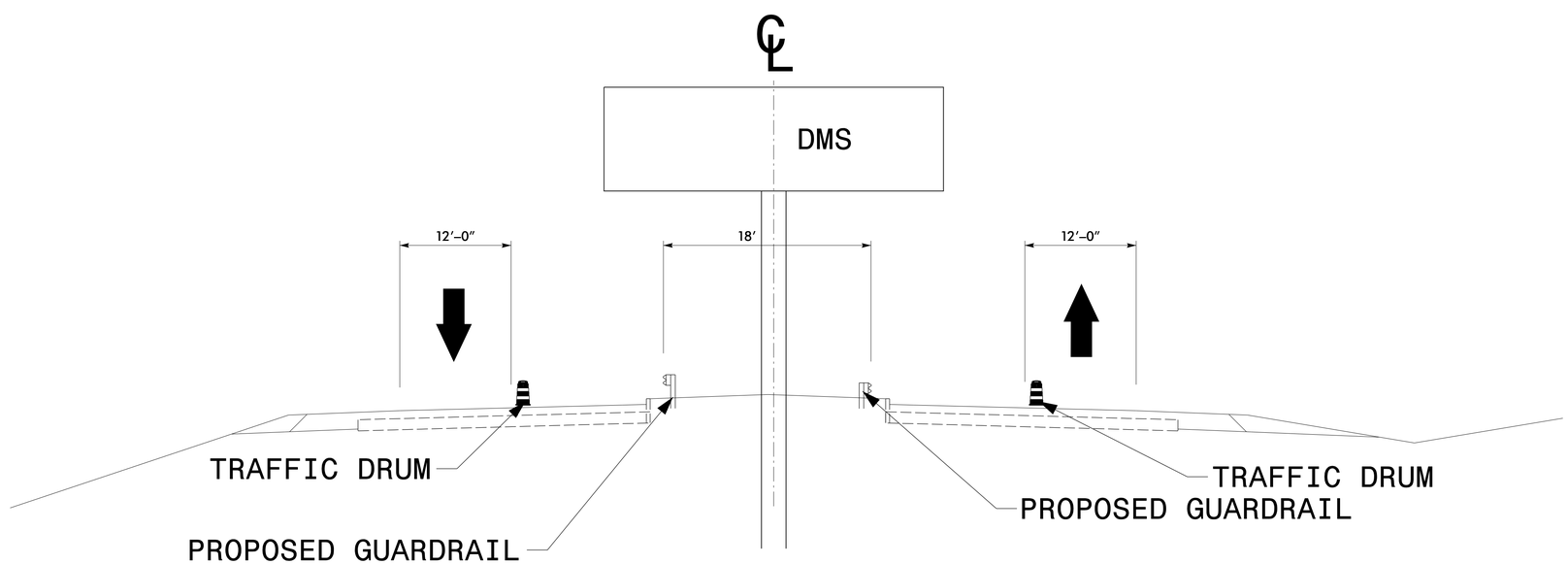


NOTE:
USE RSD 1101.02 SHEET 3 OF 14, AND 1101.04 SHEET 1 OF 1 AS NECESSARY TO CLOSE THE RIGHT LANE AND SHOULDER FOR DMS AND GUARDRAIL CONSTRUCTION (SEE GENERAL NOTES FOR LANE CLOSURE RESTRICTIONS).



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DMS INSTALLATION TYPICAL

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

Shoring Location No. 1

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION 52+18± -Y4DET-, 20 FT, LEFT, TO STATION 52+80± -Y4DET-, 20 FT, LEFT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

- UNIT WEIGHT (γ) = 120 PCF
- FRICTION ANGLE (ϕ) = 30 DEGREES
- COHESION (c) = 0 PSF
- GROUNDWATER ELEVATION = 8 FT

DO NOT USE CANTILEVER, BRACED OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION 52+18± -Y4DET-, 20 FT, LEFT, TO STATION 52+80± -Y4DET-, 20 FT, LEFT.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 52+18± -Y4DET-, 20 FT, LEFT, TO STATION 52+80± -Y4DET-, 20 FT, LEFT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

Shoring Location No. 2

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION 51+87± -Y4-, 68 FT, RIGHT, TO STATION 52+74± -Y4-, 68 FT, RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

- UNIT WEIGHT (γ) = 120 PCF
- FRICTION ANGLE (ϕ) = 30 DEGREES
- COHESION (c) = 0 PSF
- GROUNDWATER ELEVATION = 8 FT

DO NOT USE CANTILEVER, BRACED OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION 51+87± -Y4-, 68 FT, RIGHT, TO STATION 52+74± -Y4-, 68 FT, RIGHT.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 51+87± -Y4-, 68 FT, RIGHT, TO STATION 52+74± -Y4-, 68 FT, RIGHT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

REVISIONS

1 12/17/2018: ADDED NEW SHEET, TEMPORARY SHORING NOTES

APPROVED: Ben Schoenbauer

DATE: 12/17/2018

NORTH CAROLINA PROFESSIONAL SEAL 035496 ENGINEER BENJAMIN SCHOENBAUER

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

TEMPORARY SHORING NOTES

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PROJ. REFERENCE NO.	SHEET NO.
R-1015	TMP-3

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

PHASING

NOTES:
BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS ADN TRAFFIC CONTROL DEVICES. FIELD VERIFY LOCATIONS WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.

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 OR TEMPORARY WIDENING IN SUCH A MANNER THAT NO PONDING OF WATER WILL OCCUR WITHIN THE TRAVEL LANE.

WHEN USING LANE CLOSURES (RSD 1101.02), RETURN TRAFFIC TO EXISTING AND/OR CURRENT TEMPORARY TRAFFIC PATTERN UPON ACTIVITIES COMPLETION, UNLESS OTHERWISE NOTED IN THE PHASING.

COMPLETE PAVING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE UNTIL STATED TO PLACE FINAL LAYER IN THE PHASING.

AREA 1
MAINLINE -L- FROM STA. 87+00± TO STA. 529+00±, INCLUDING -LP1B-, -RP1A-, AND -LP2A-

PHASE 1

STEP 1:
AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF -L- FROM STA. 87+00± TO -L- STA. 529+00±, INCLUDING RAMPS AND LOOPS AT -Y- LINE LOCATIONS.

PHASE 2

STEP 1:
ONCE CONSTRUCTION IN AREA 2 THRU AREA 5 ARE FINISHED, COMPLETE ANY REMAINING CONSTRUCTION.

STEP 2:
PLACE THE FINAL LAYER OF SURFACE COURSE AND PAVEMENT MARKINGS.

STEP 3:
USING RSD 1101.02 SHEETS 3 AND 5 OF 14 AND LAW ENFORCEMENT, AS NECESSARY, OPEN -L- AND ALL RAMPS AND LOOPS TO TRAFFIC.

AREA 2
-L- FROM STA. 32+80± TO STA. 87+00±, -RP1AB-, AND -RP1B-

PHASE 1

STEP 1:
AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF -L-, -RP1B-, AND -RP1AB-. USING RSD 1101.02 SHEETS 3 AND 5 OF 14 AND RSD 1101.04 SHEET 1 OF 1, AS NECESSARY, CONSTRUCT TEMPORARY PAVEMENT FROM -L- STA. 25+47± TO -L- STA. 27+30±, -L- STA. 28+18± TO -L- STA. 29+73±, -L- STA. 34+65± TO -L- STA. 58+35±, -L- STA. 59+14± TO -L- STA. 77+19±, -RP1AB- STA. 24+10 TO -RP1AB- STA. 30+43±, AND -RP1AB- STA. 30+91± TO -RP1AB- STA. 33+84±. SEE SHEETS TMP-6 THRU TMP-9. INSTALL TEMPORARY SIGNAL EQUIPMENT FOR PHASE 1 STEP 3 AT MCCOTTER BLVD.

STEP 2:
USING RSD 1101.03 SHEET 6 OF 9, AS NECESSARY, INSTALL PIPE SEGMENTS 403 TO 404, 402 TO 406, 403 TO 405, 402 TO 407, AND 408 TO 409.

STEP 3:
ACTIVATE TEMPORARY SIGNAL AND USING RSD 1101.02 SHEET 3 AND 5 OF 14 AND LAW ENFORCEMENT, AS NECESSARY, PLACE TEMPORARY PAVEMENT MARKINGS AND SHIFT SOUTHBOUND US 70 TRAFFIC ONTO TEMPORARY PAVEMENT (SEE SHEETS TMP-6 THRU TMP-9). CONTINUE CONSTRUCTION OF -L-, -RP1B-, AND -RP1AB-. INSTALL TEMPORARY SIGNAL EQUIPMENT AT MCCOTTER BLVD FOR PHASE 2.

PHASE 2

STEP 1:
ACTIVATE TEMPORARY SIGNAL AT MCCOTTER BLVD AND USING RSD 1101.02 SHEET 3 AND 5 OF 14 AND LAW ENFORCEMENT, AS NECESSARY, PLACE TEMPORARY PAVEMENT MARKINGS AND SHIFT SOUTHBOUND US 70 TRAFFIC ONTO -RP1AB- AND -RP1B-. WITH SOUTHBOUND US 70 TRAFFIC SHIFTED ONTO NEW ALIGNMENT SHIFT NORTHBOUND US 70 TRAFFIC ONTO EXISTING US 70 SOUTHBOUND USING RSD 1101.02 SHEET 3 OF 15 AND LAW ENFORCEMENT, AS NECESSARY, (SEE SHEETS TMP-10 THRU TMP-13).

STEP 2:
WITH NB US 70 TRAFFIC SHIFTED CONSTRUCT -L-, -RP1CD-, AND MEDIAN BETWEEN -RP1AB- AND -RP1CD-(SEE SHEETS TMP-10 THRU TMP-13).

PHASE 3

STEP 1:
USING RSD 1101.02 SHEET 3 AND 5 OF 14 SHIFT NB US 70 TRAFFIC ONTO -L-, -RP1CD-, -RP1AB-, ACTIVATE PROPOSED SIGNAL, AND COMPLETE ANY REMAINING CONSTRUCTION (SEE SHEETS TMP-14 THRU TMP-17).

STEP 2:
USING RSD 1101.02 SHEETS 3 AND 5 OF 14, AS NECESSARY, PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS.

AREA 3
-Y3-, -Y3DET-, AND ALL RAMPS

PHASE 1

STEP 1:
AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF -Y3DET (SEE SHEETS TMP-10 THRU TMP-11).

STEP 2:
USING RSD 1101.02 SHEET 1 OF 14 CONSTRUCT THE TIE-INS TO -Y3DET-.

PHASE 2

STEP 1:
USING RSD 1101.02 SHEET 1 OF 14 AWAY FROM TRAFFIC CONSTRUCT -Y3- PROPOSED STRUCTURE INTERSECTIONS (SEE SHEETS TMP-20 THRU TMP-21)

PHASE 3

STEP 1:
USING RSD 1101.02 SHEET 1 OF 14, AS NECESSARY, SHIFT TRAFFIC ONTO -Y3- (SEE SHEETS TMP-22 THRU TMP-23). AWAY FROM TRAFFIC REMOVE -Y3DET- AND COMPLETE ALL REMAINING CONSTRUCTION.

STEP 2:
USING RSD 1102.02 SHEET 1 OF 14, CONSTRUCT THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS

APPROVED: Ben Schoenbauer

DATE: 12/4/2018

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 035496 ENGINEER BENJAMIN SCHOENBAUER

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

TEMPORARY TRAFFIC CONTROL PHASING

REVISIONS

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PROJ. REFERENCE NO.	SHEET NO.
R-1015	TMP-3A

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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).

STEP 2:
USING 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.

APPROVED: Ben Schoenbauer

DATE: 12/4/2018

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 035496 ENGINEER BENJAMIN SCHOENBAUER

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TEMPORARY TRAFFIC CONTROL PHASING

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PROJ. REFERENCE NO.	SHEET NO.
R-1015	TMP-4

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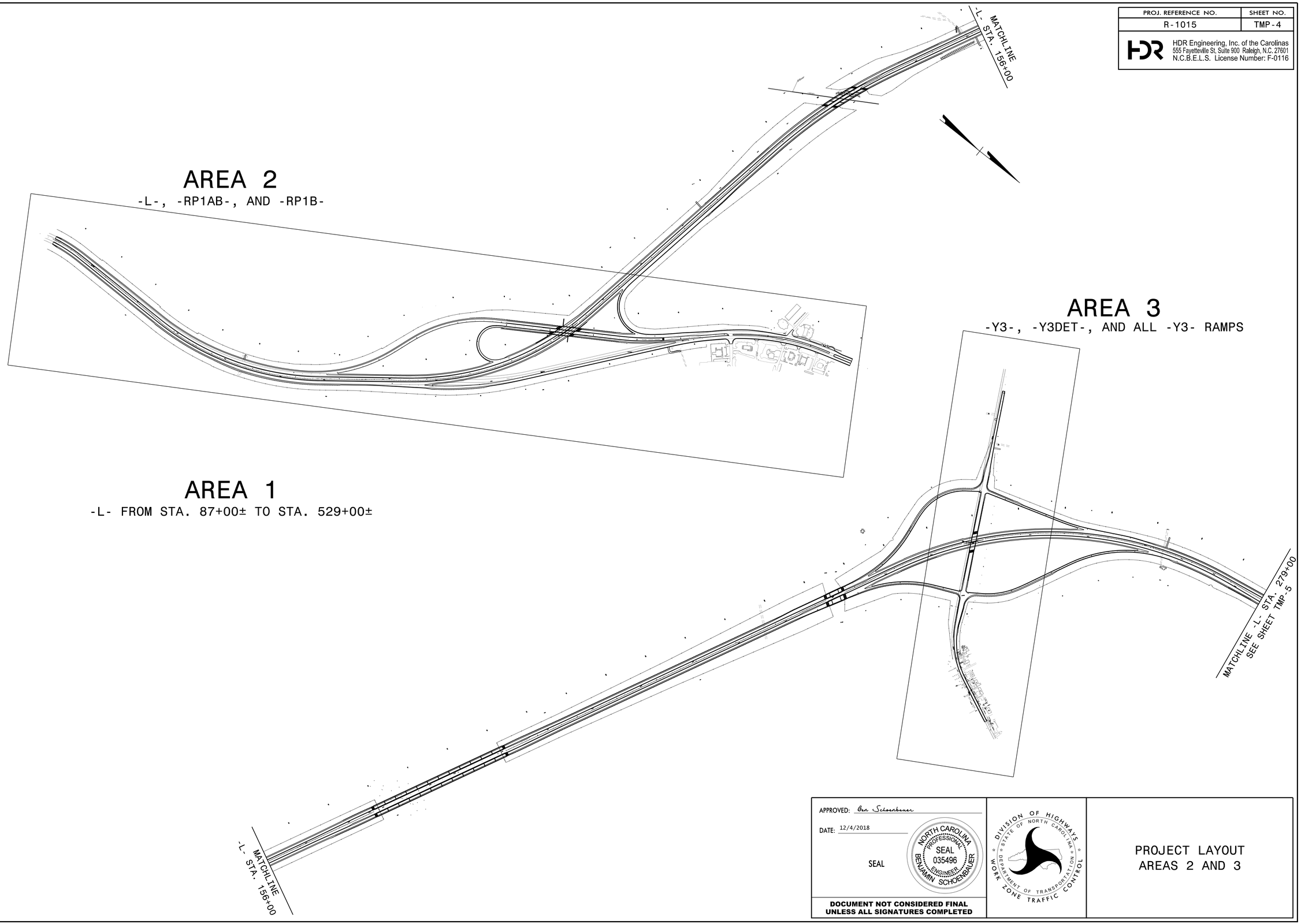

APPROVED: Ben Schoenbauer

DATE: 12/4/2018

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PROJECT LAYOUT
AREAS 2 AND 3

REVISIONS

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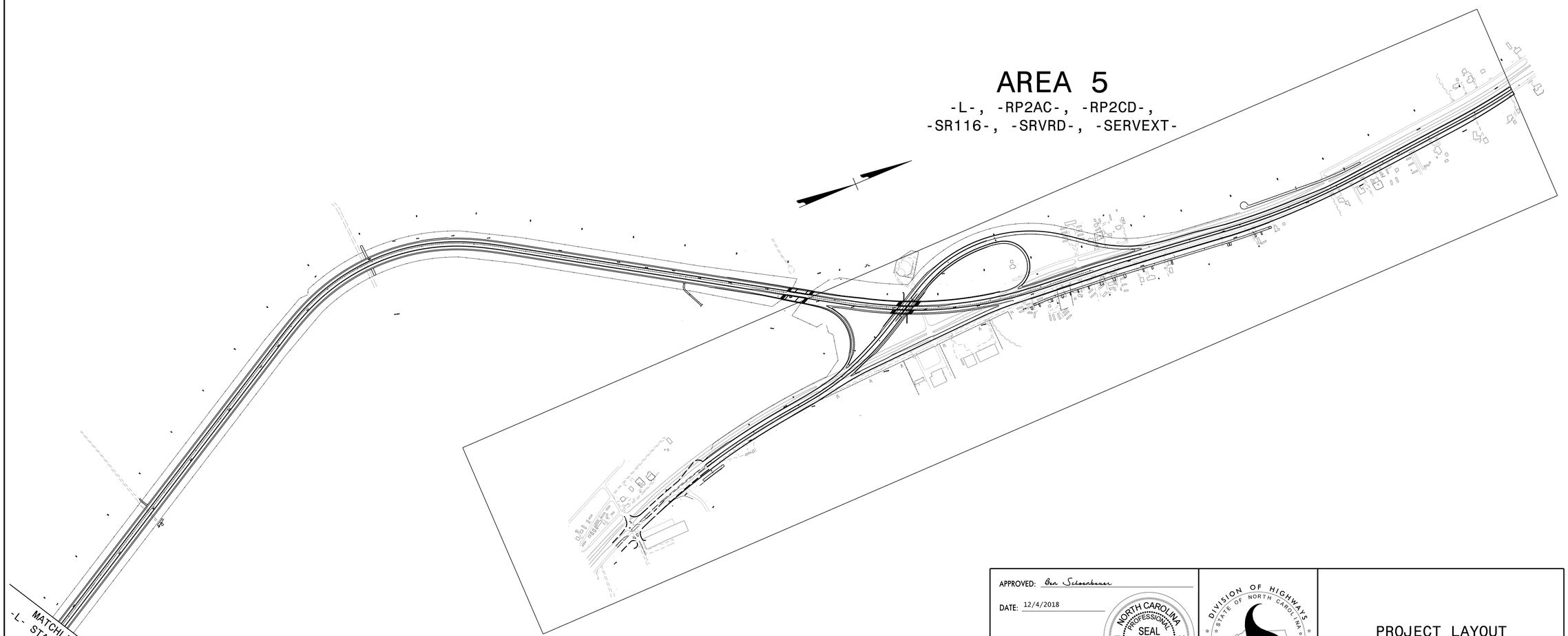
AREA 4

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

AREA 5

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



REVISIONS

APPROVED: Ben Schoenbauer

DATE: 12/4/2018

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PROJECT LAYOUT
AREAS 4 AND 5

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R-1015	TMP-6

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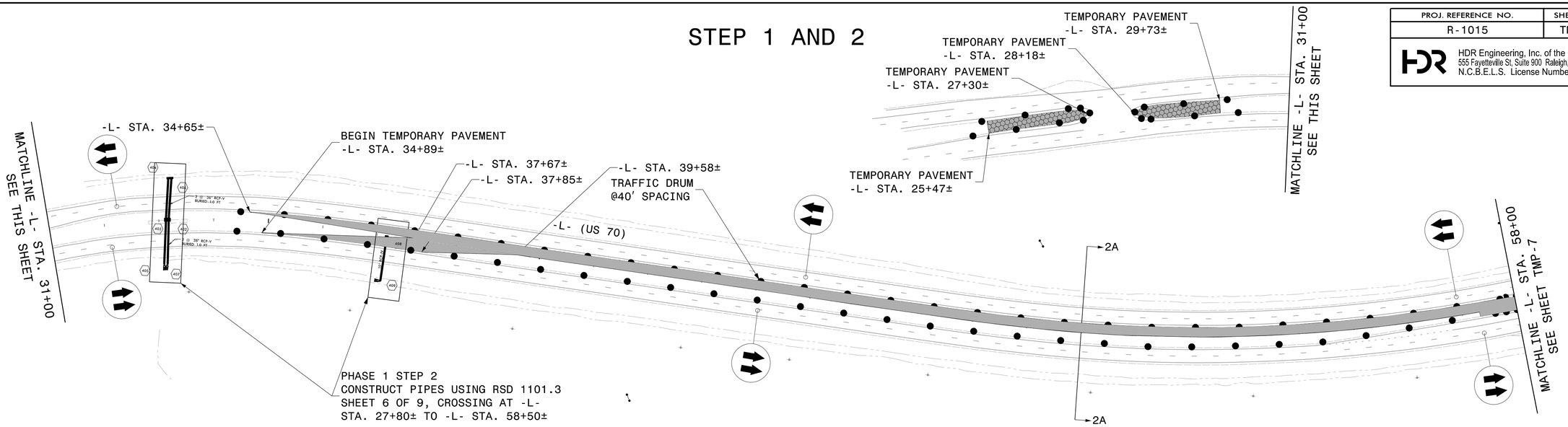
STEP 1 AND 2



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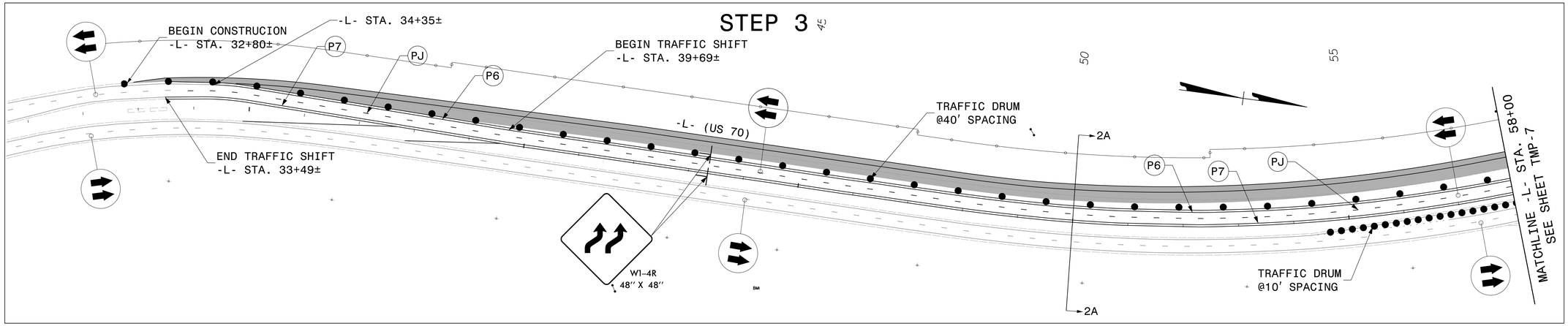
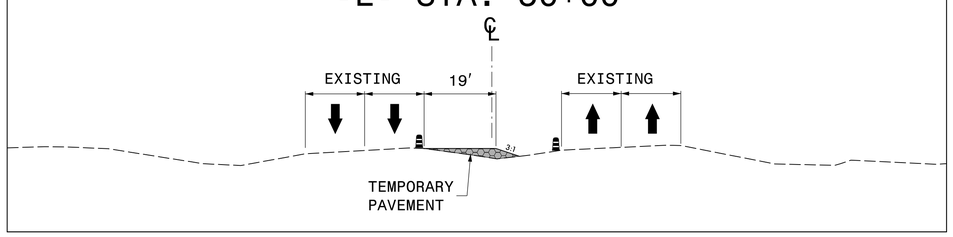


2A-2A STEP 1 AND 2
-L- STA. 50+00



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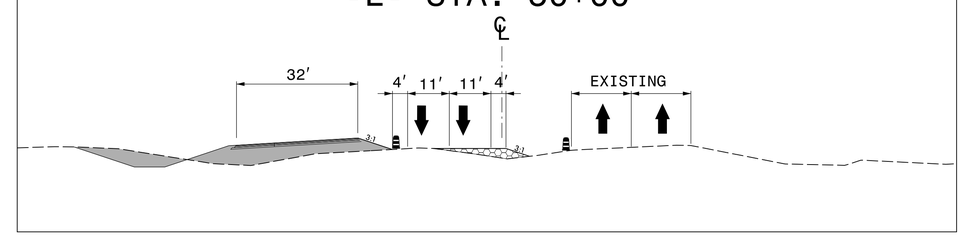

APPROVED: Ben Schoenbauer

DATE: 12/4/2018

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NORTH CAROLINA PROFESSIONAL SEAL 035496 ENGINEER BENJAMIN SCHOENBAUER

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AREA 2
PHASE 1

REVISIONS

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R-1015	TMP-7

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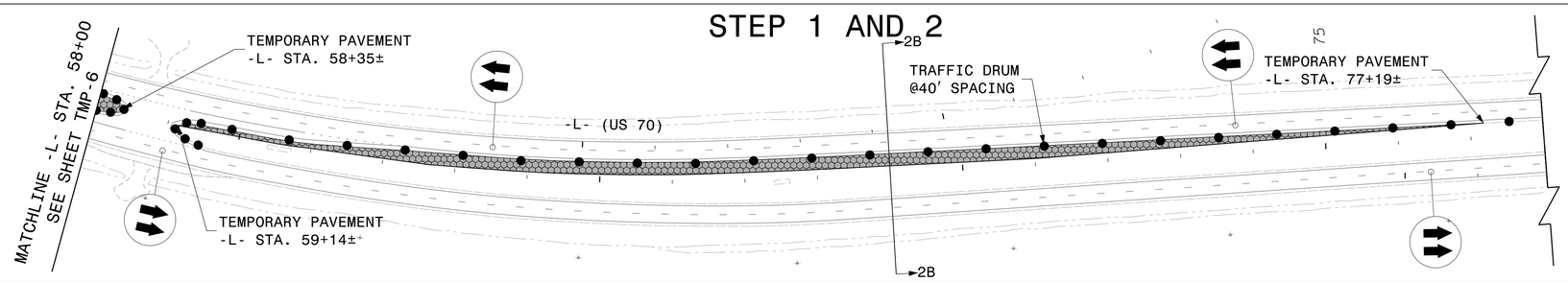
STEP 1 AND 2



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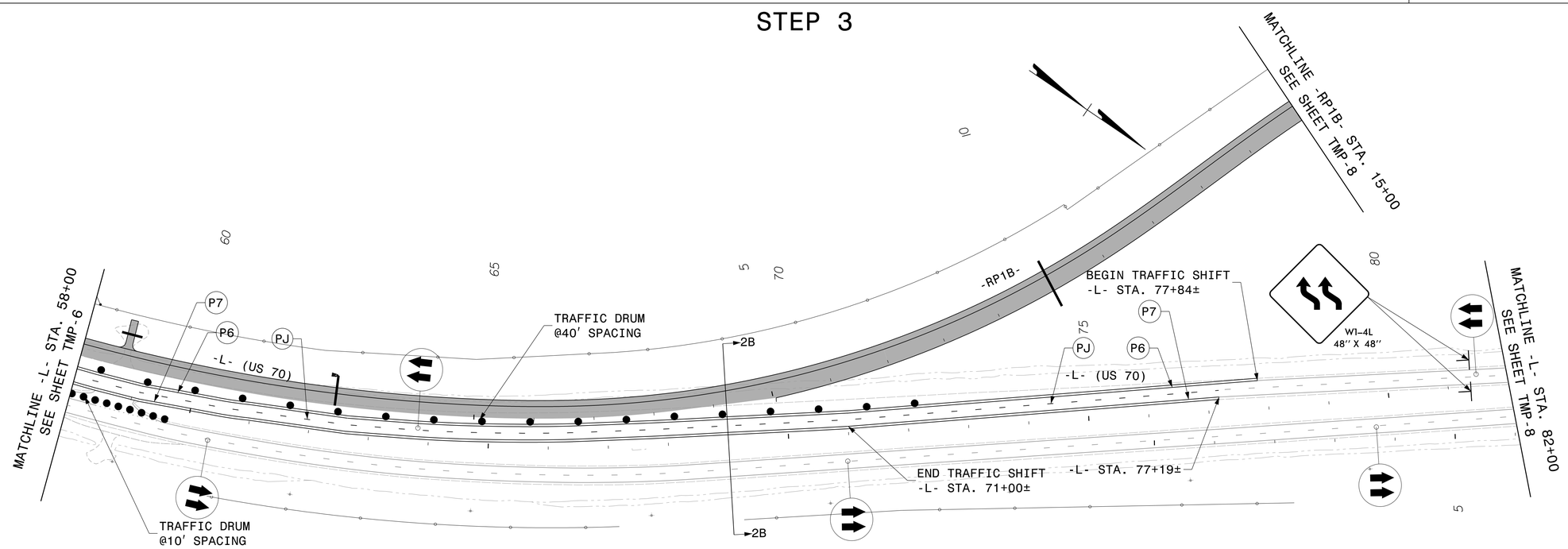
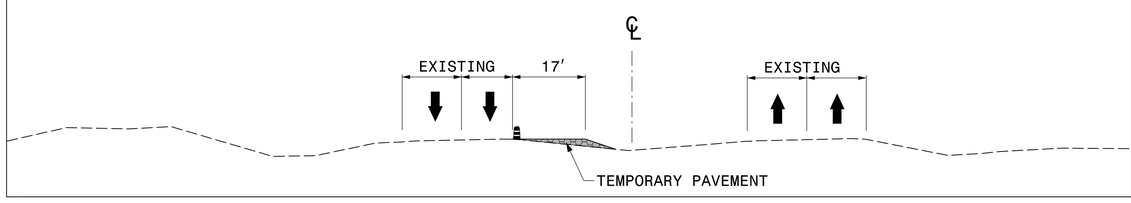


2B-2B STEP 1 AND 2
-L- STA. 69+00



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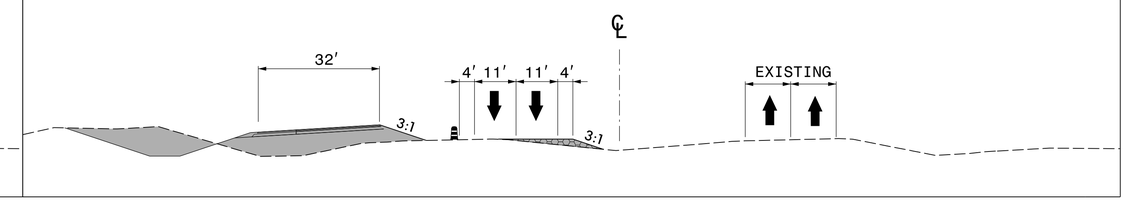
-L- STA. 69+00



APPROVED: Ben Schoenbauer

DATE: 12/4/2018

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 035496 ENGINEER BENJAMIN SCHOENBAUER

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AREA 2
PHASE 1

REVISIONS

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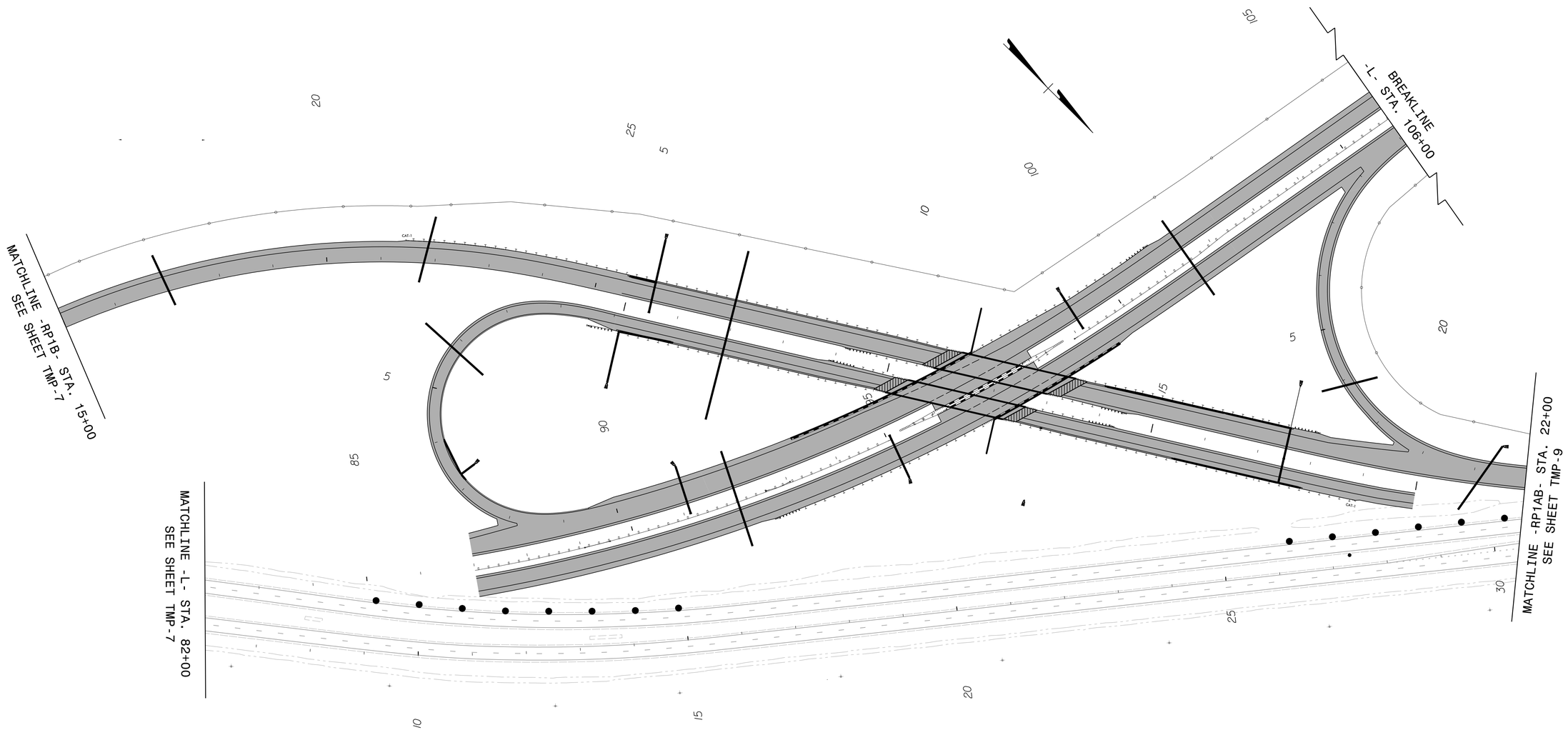

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NORTH CAROLINA PROFESSIONAL SEAL 035496 ENGINEER BENJAMIN SCHOENBAUER

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

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AREA 2
PHASE 1

REVISIONS

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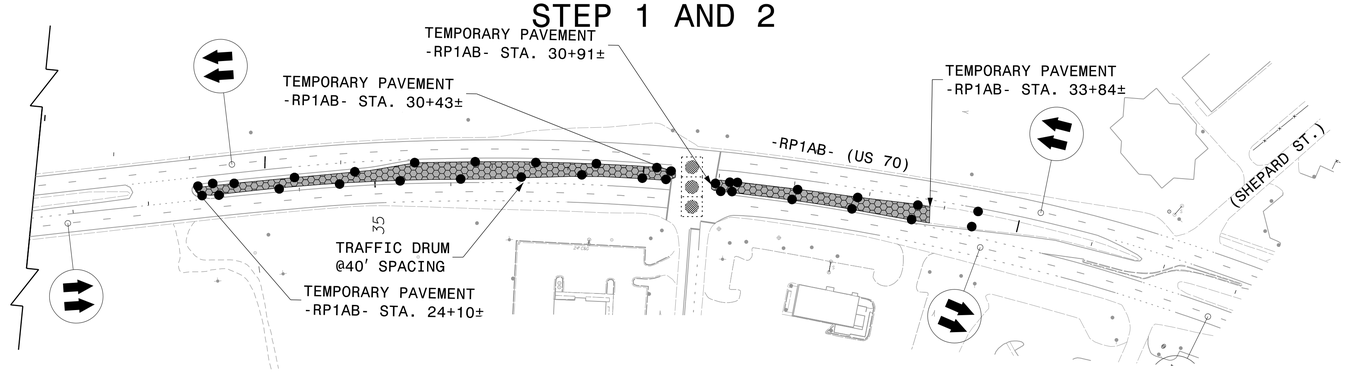
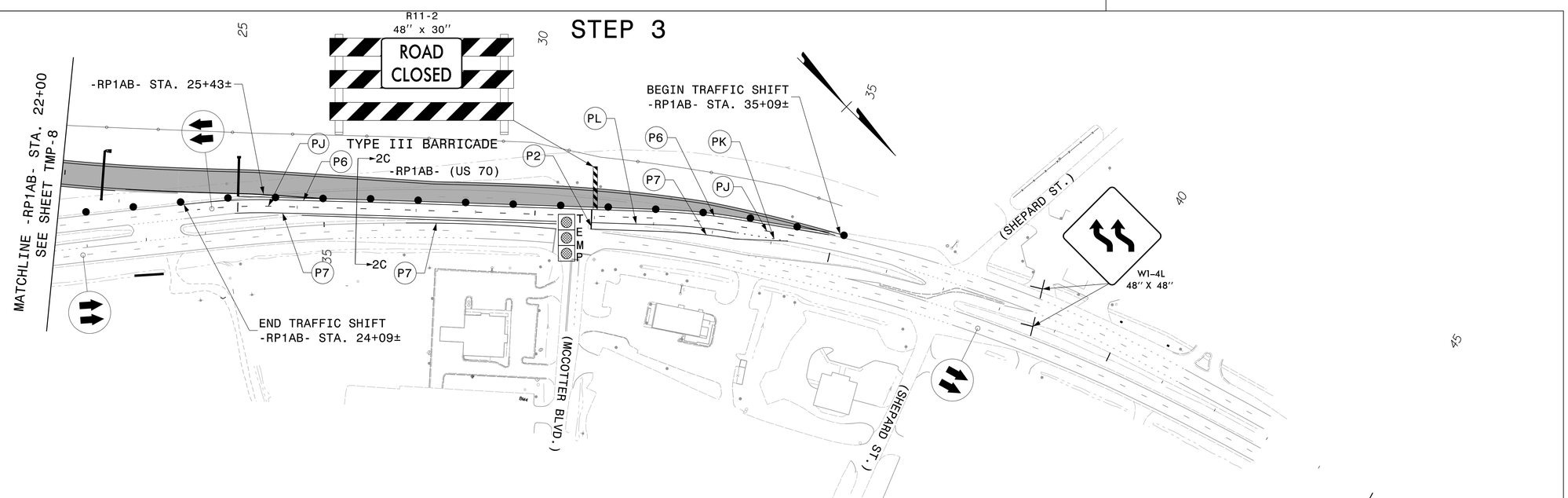
PROJ. REFERENCE NO.	SHEET NO.
R-1015	TMP-9

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



STEP 3



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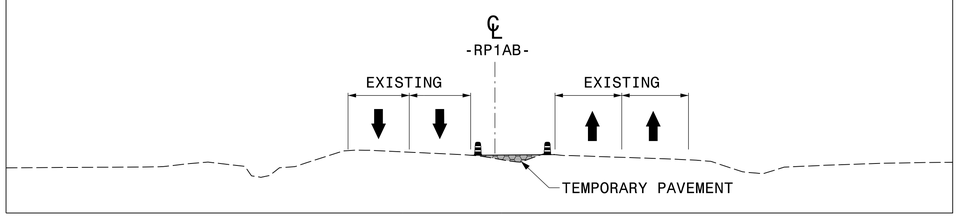

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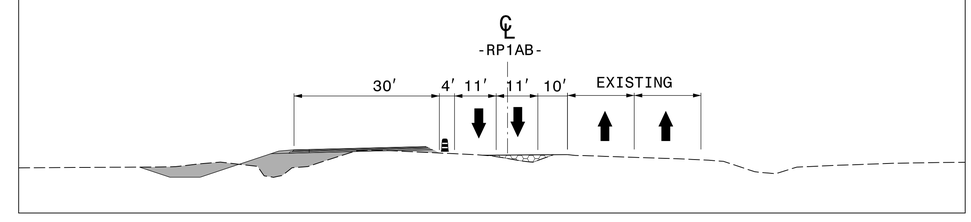

APPROVED: Ben Schoenbauer

DATE: 12/4/2018

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

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AREA 2
PHASE 1

REVISIONS

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PROJ. REFERENCE NO.	SHEET NO.
R-1015	TMP-10

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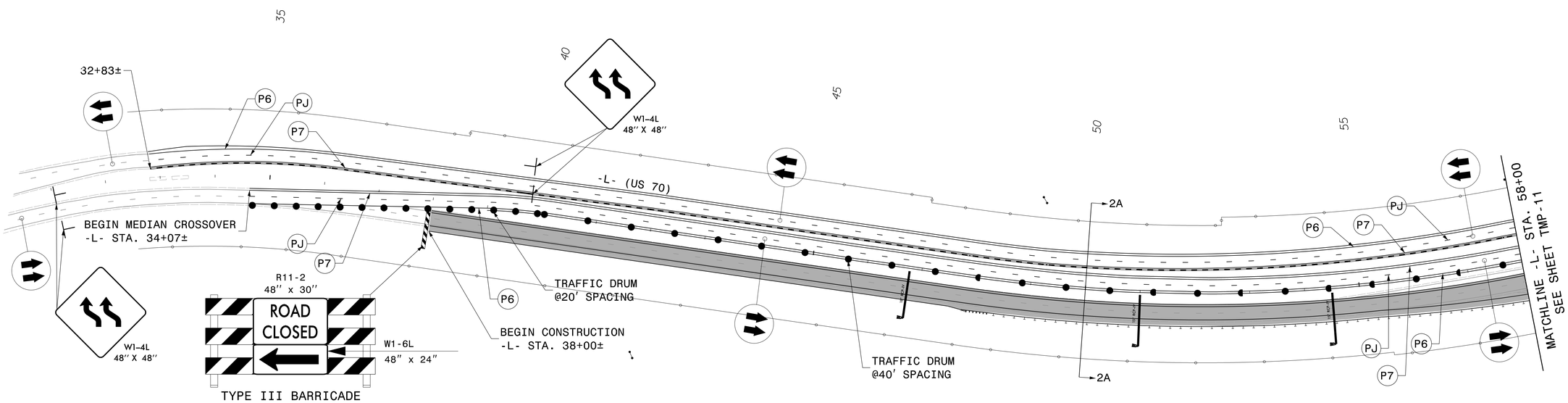

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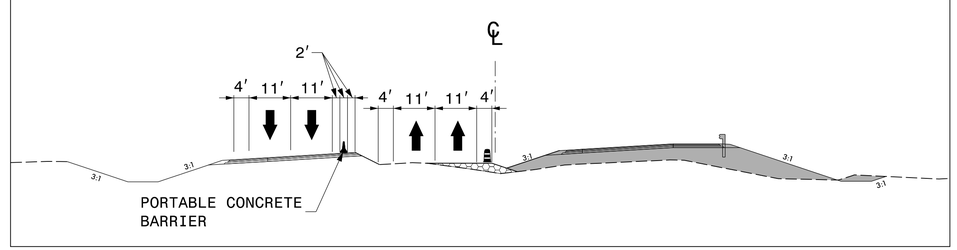

APPROVED: Ben Schoenbauer

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AREA 2
PHASE 2

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt PENTABLE: NCDOT_tcp.tbl
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PROJ. REFERENCE NO.	SHEET NO.
R-1015	TMP-11

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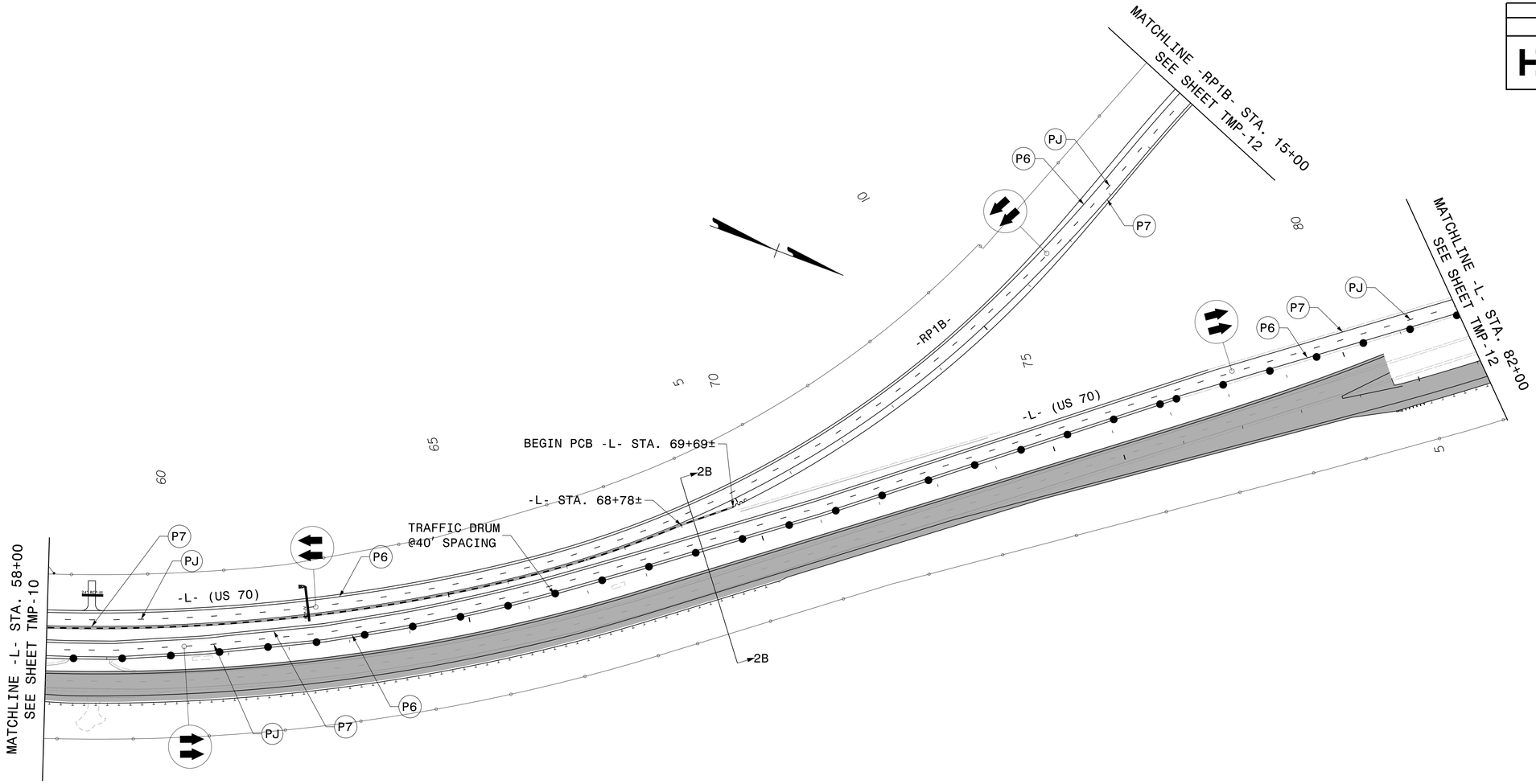

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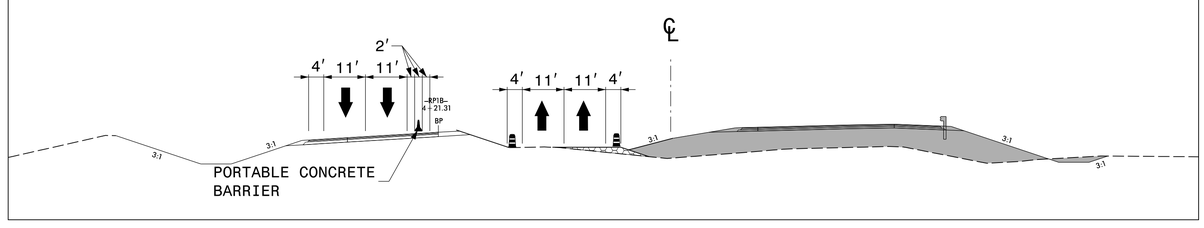
-L- STA. 69+00



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AREA 2
PHASE 2

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng.100.plt PENTABLE: NCDOT_tcp.tbl
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R-1015	TMP-12

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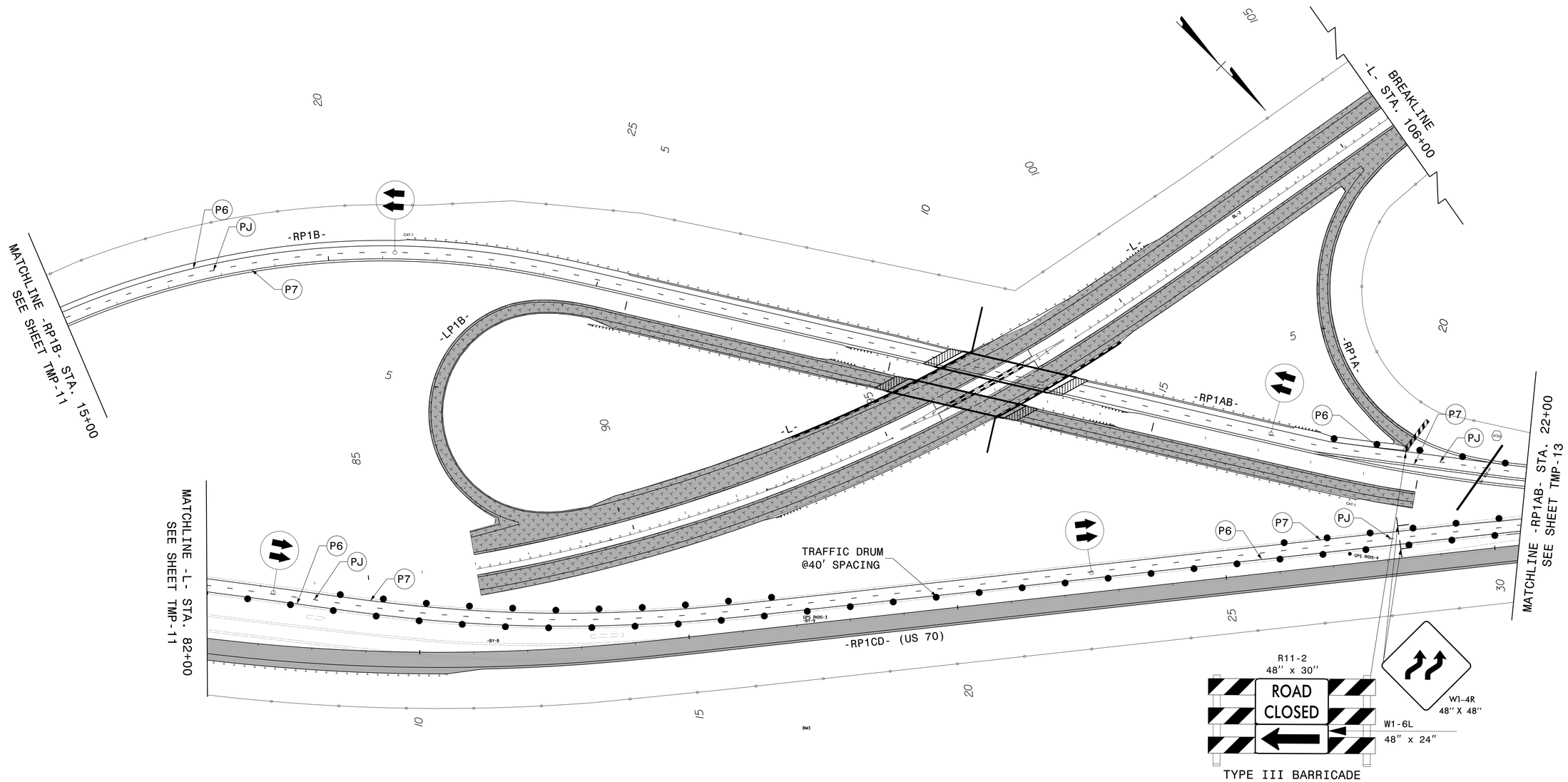

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AREA 2
PHASE 2

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt PENTABLE: NCDOT_tcp.tbl
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R-1015	TMP-13

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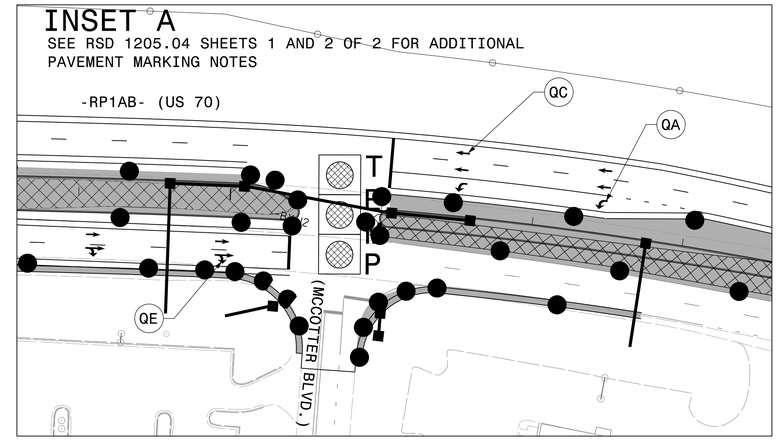

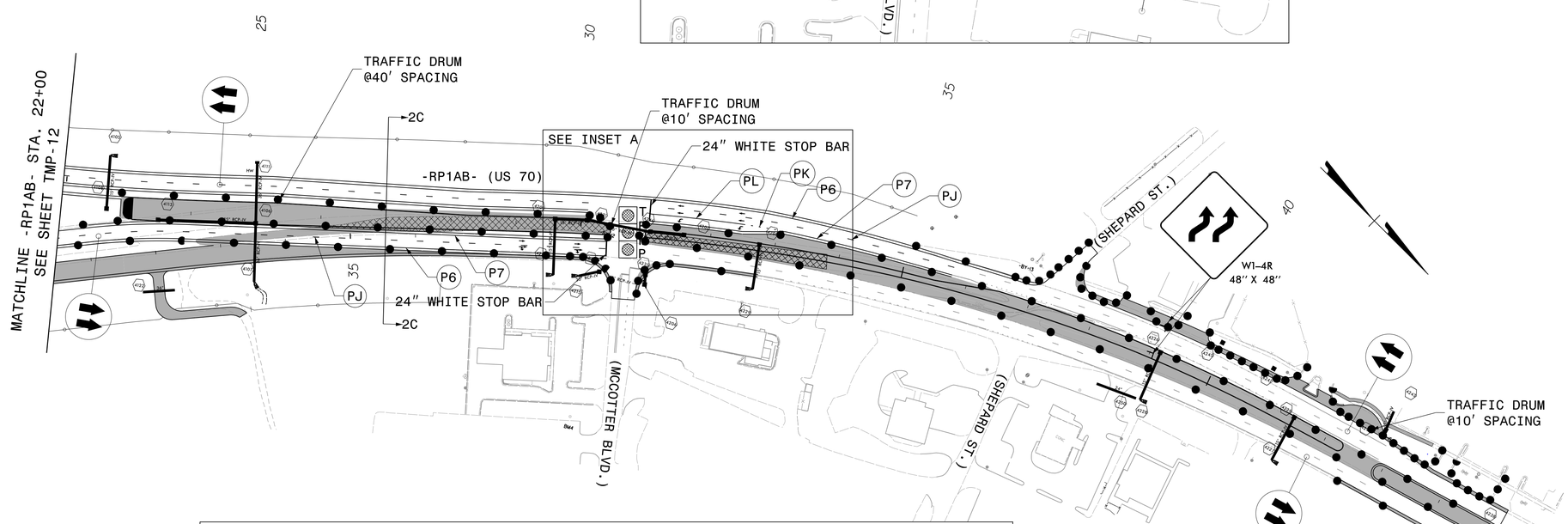

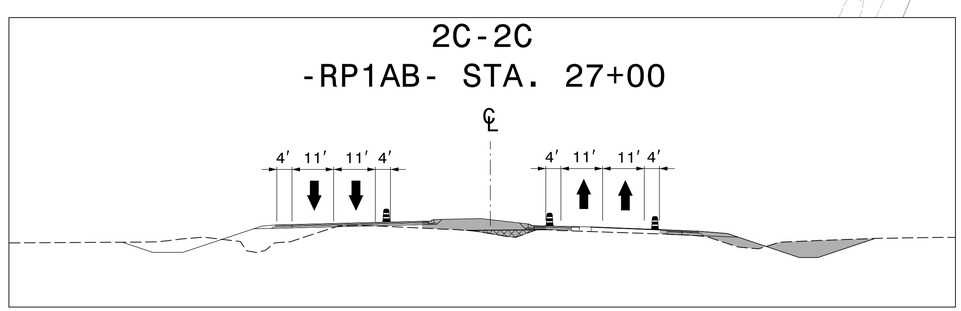

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AREA 2
PHASE 2

REVISIONS

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R-1015	TMP-14

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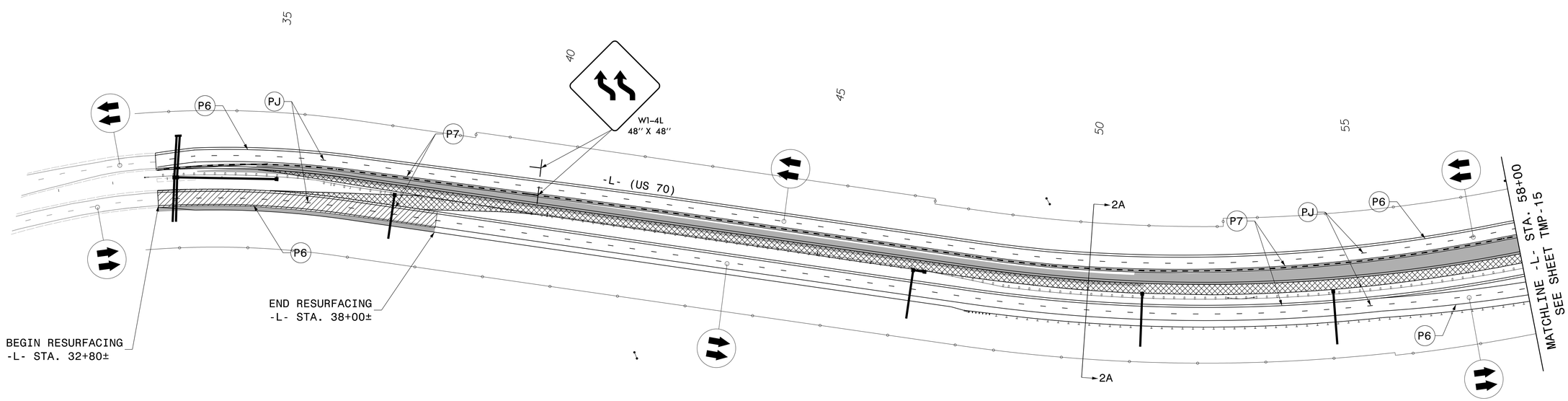

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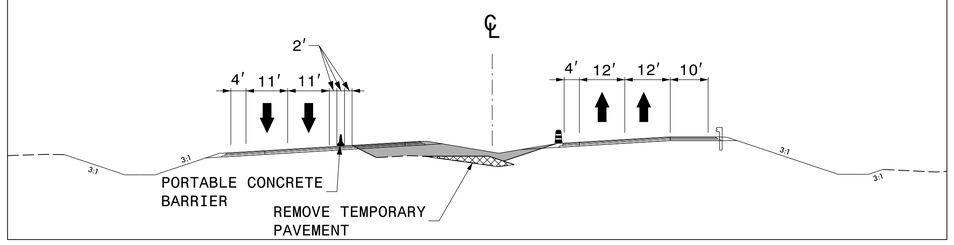

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AREA 2
PHASE 3

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng.100.plt PENTABLE: NCDOT_tcp.tbl
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R-1015	TMP-15

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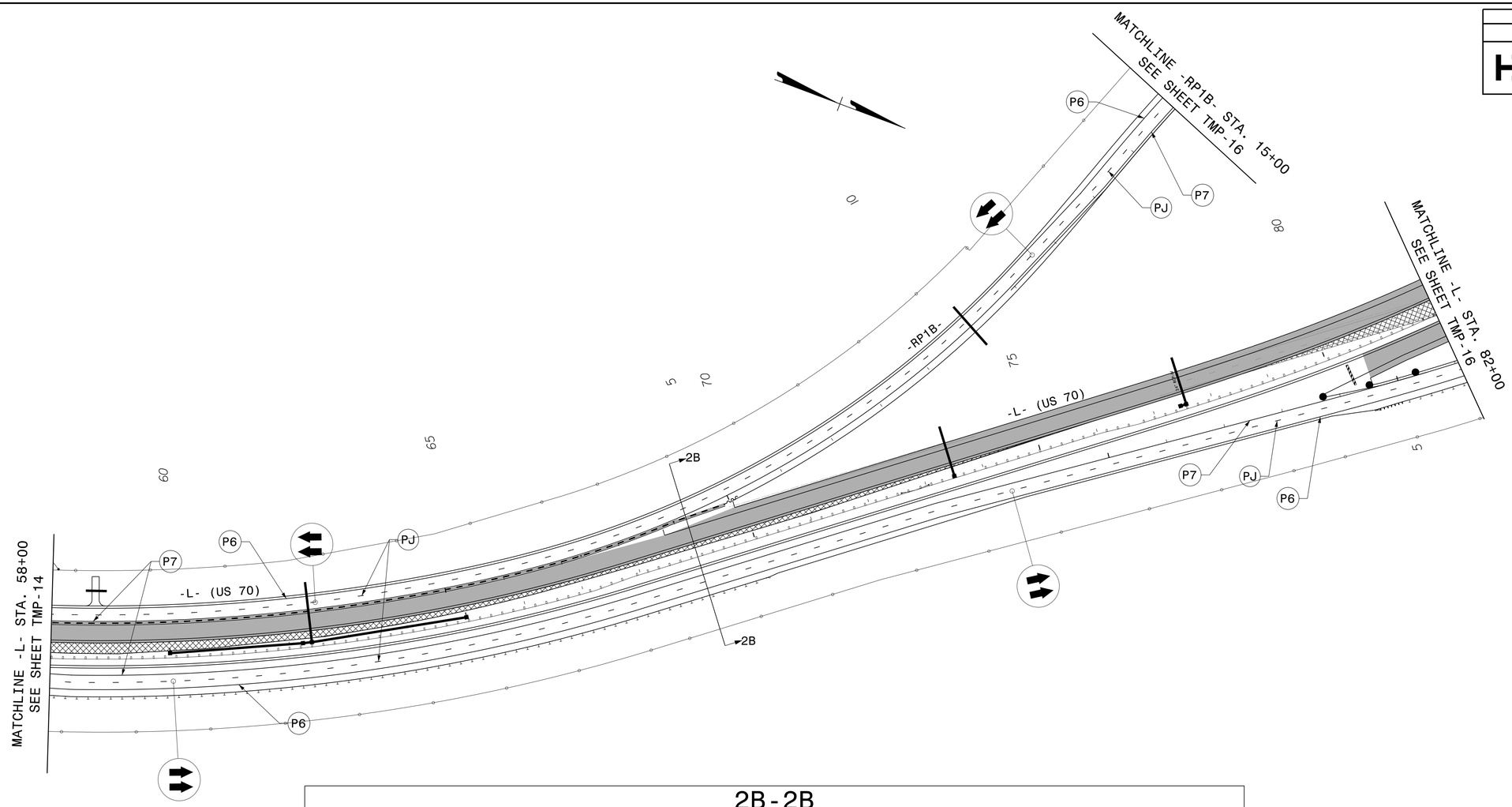

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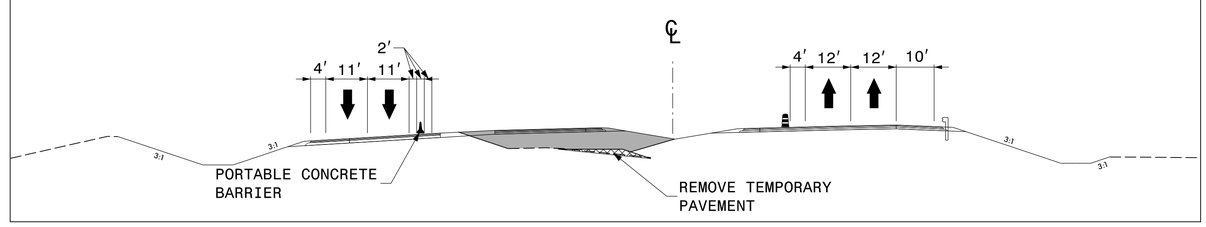
-L- STA. 69+00



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AREA 2
PHASE 3

REVISIONS

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R-1015	TMP-16

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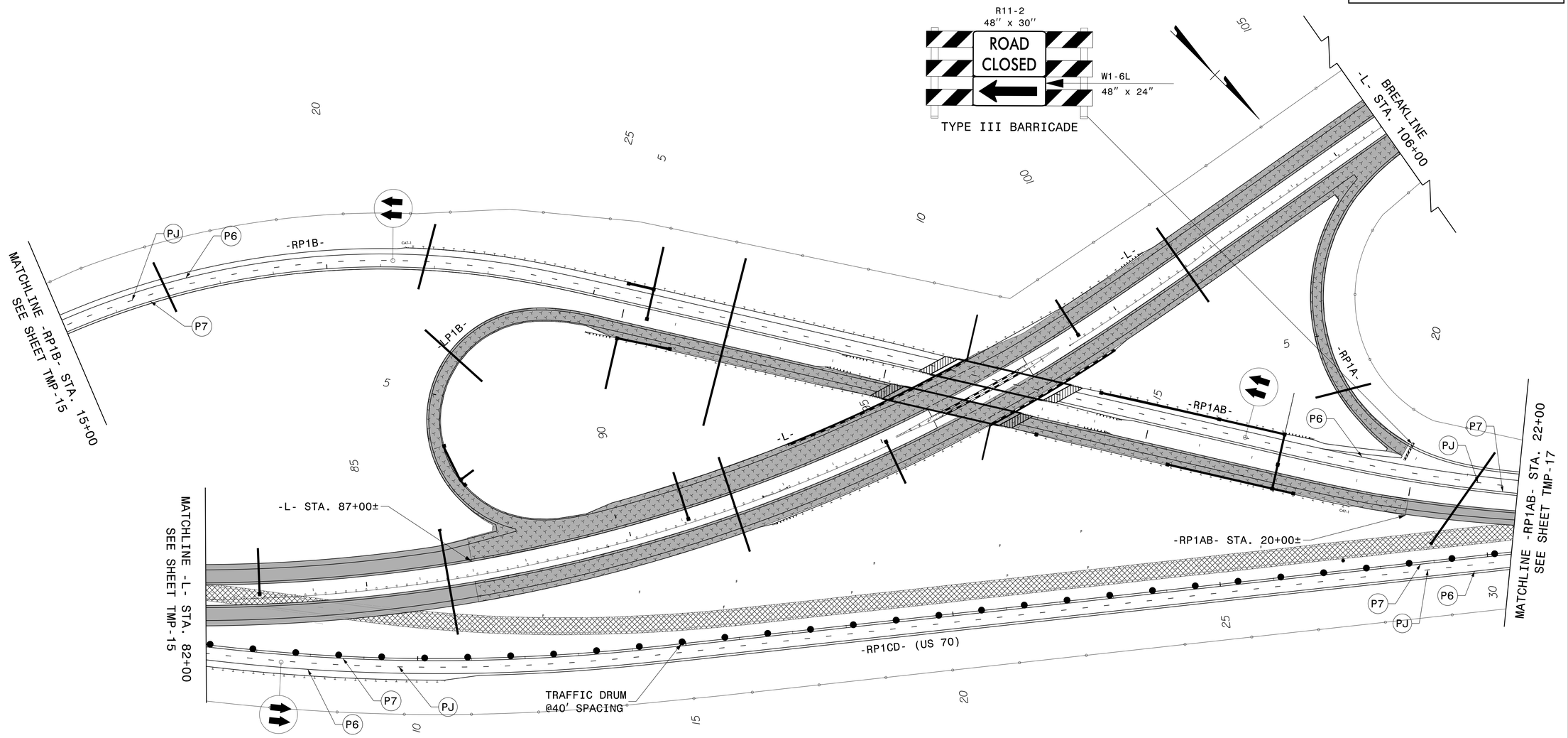
N.C.B.E.L.S. License Number: F-0116



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

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AREA 2
PHASE 3

REVISIONS

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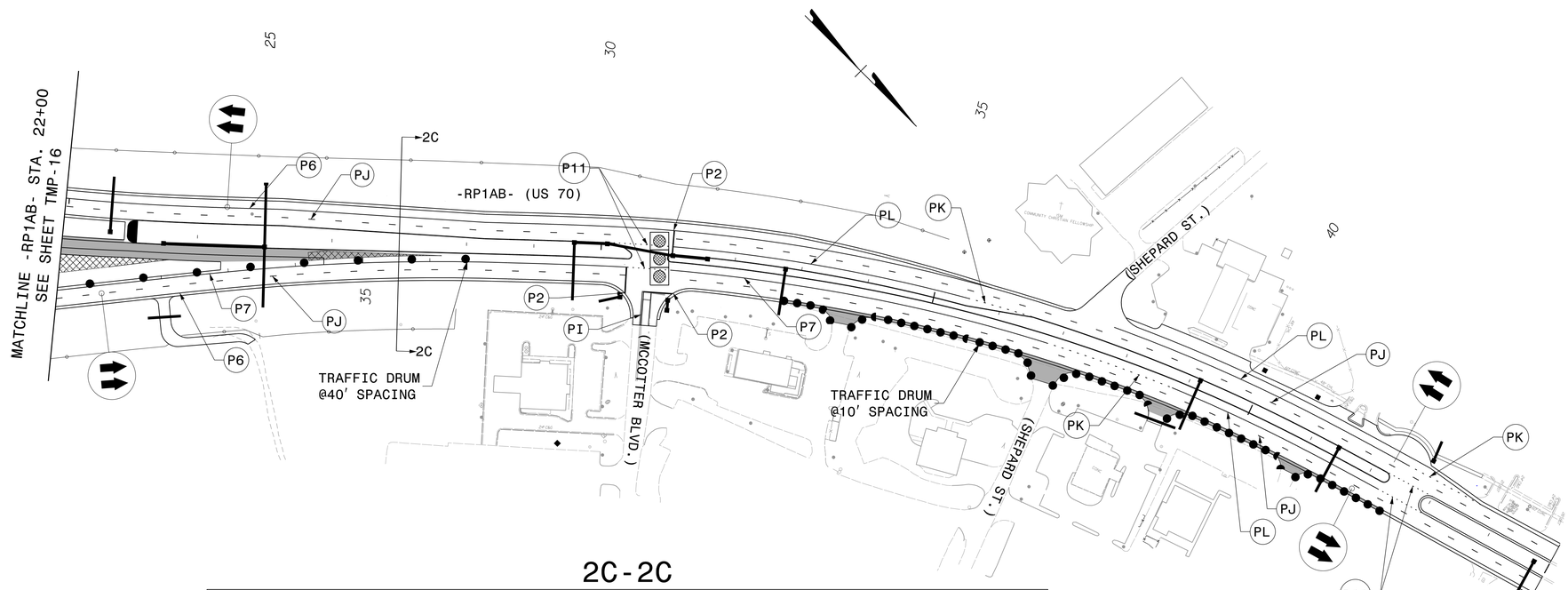

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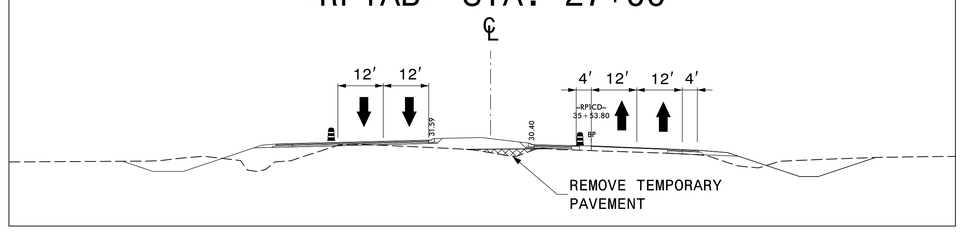

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AREA 2
PHASE 3

REVISIONS

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PROJ. REFERENCE NO.	SHEET NO.
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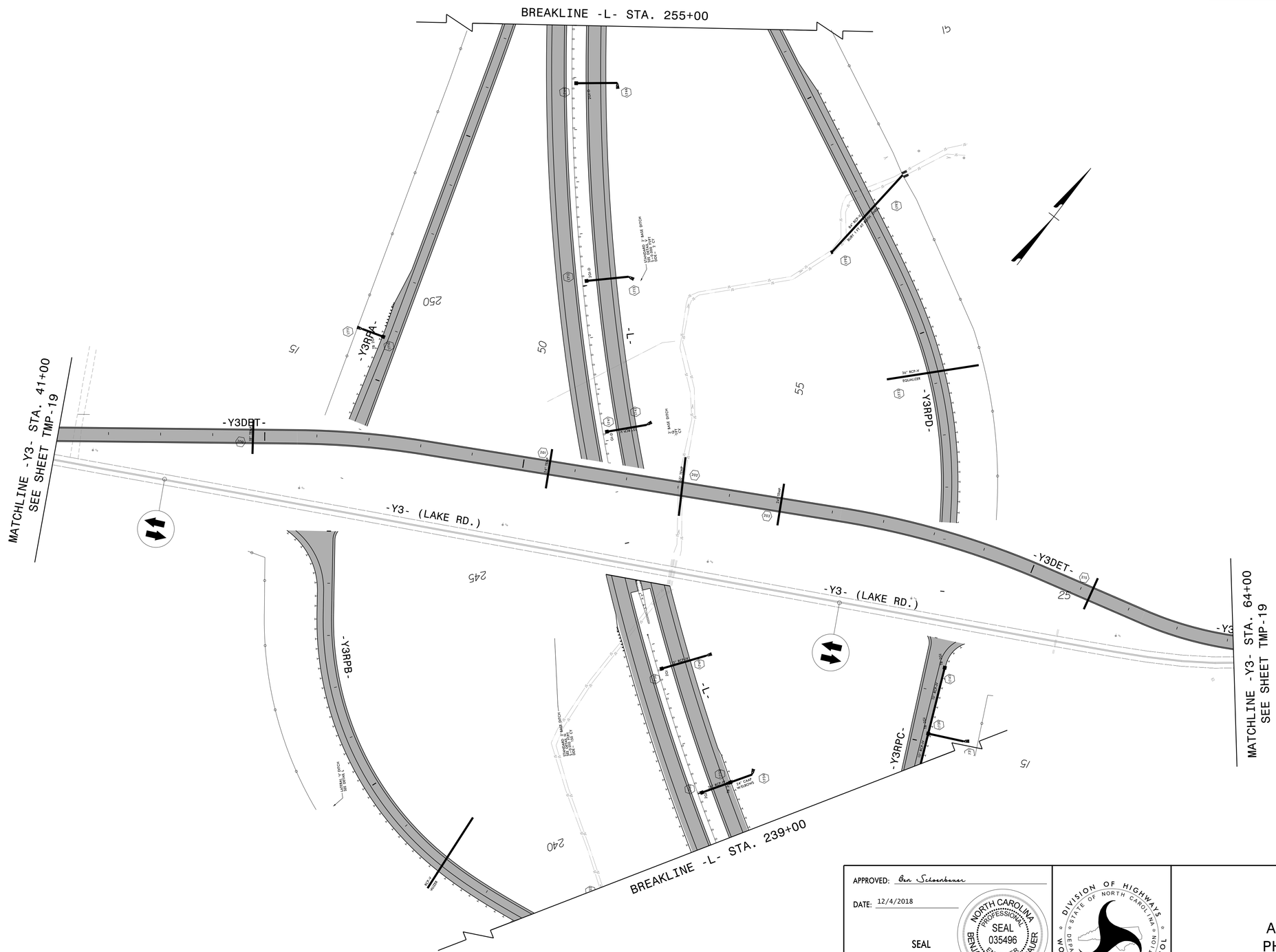
N.C.B.E.L.S. License Number: F-0116



REVISIONS

APPROVED: Ben Schoenbauer

DATE: 12/4/2018

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AREA 3
PHASE 1

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt PENTABLE: NCDOT_tcp.tbl
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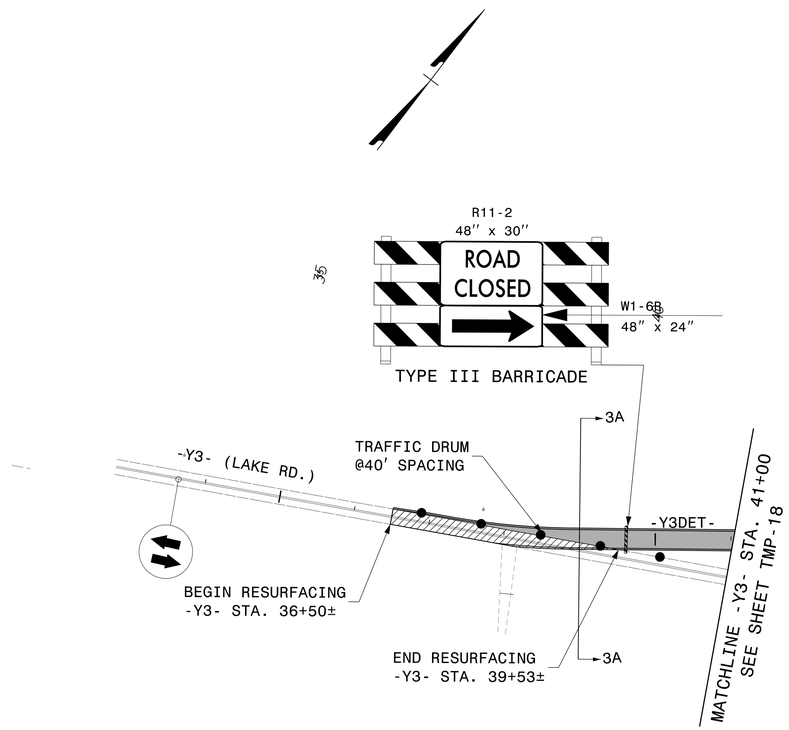
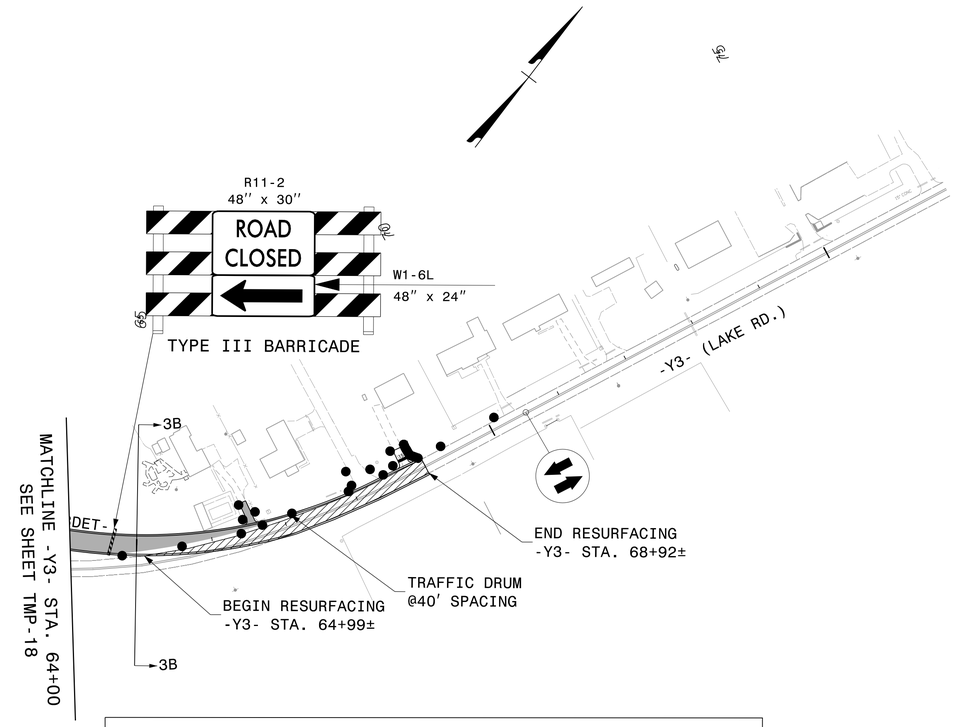
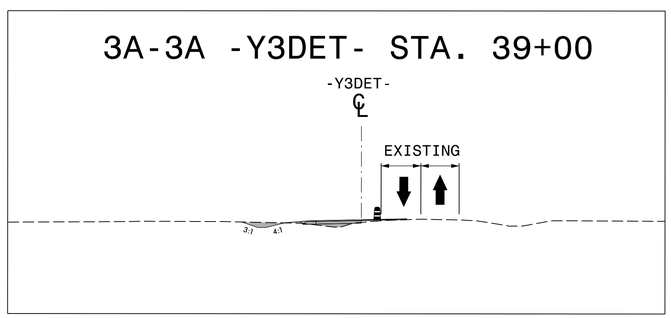
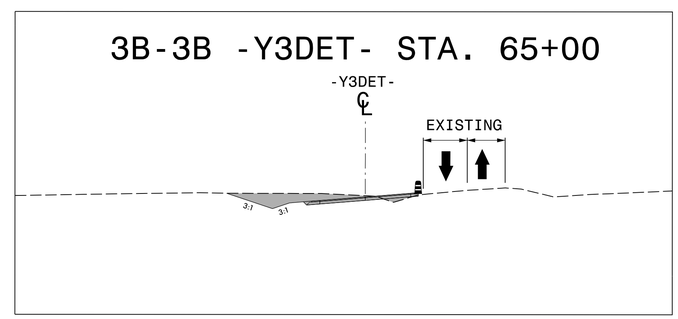
N.C.B.E.L.S. License Number: F-0116









APPROVED: Ben Schoenbauer

DATE: 12/4/2018

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

AREA 3
PHASE 1

REVISIONS

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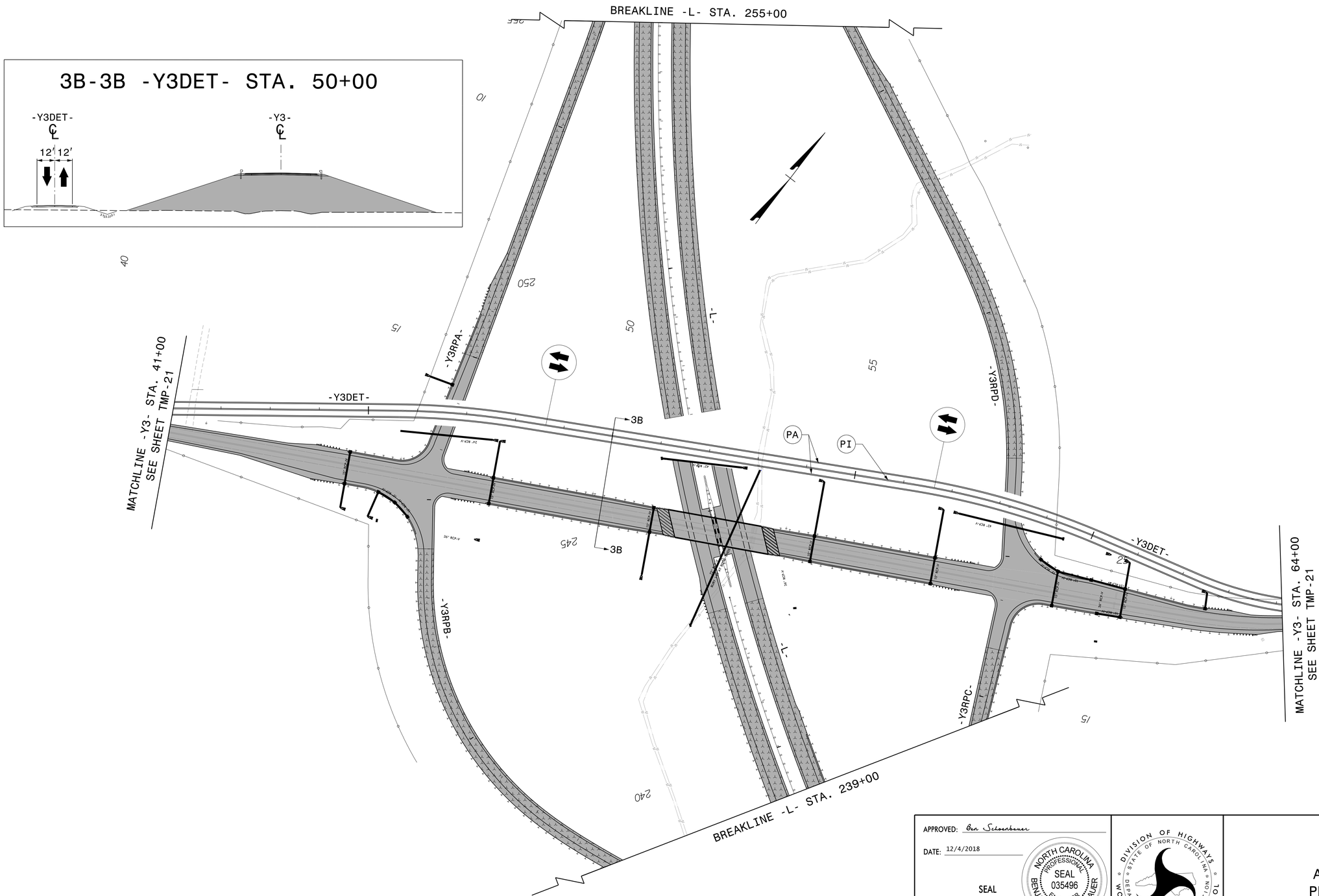
N.C.B.E.L.S. License Number: F-0116



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APPROVED: Ben Schoenbauer

DATE: 12/4/2018

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AREA 3
PHASE 2

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R-1015	TMP-21

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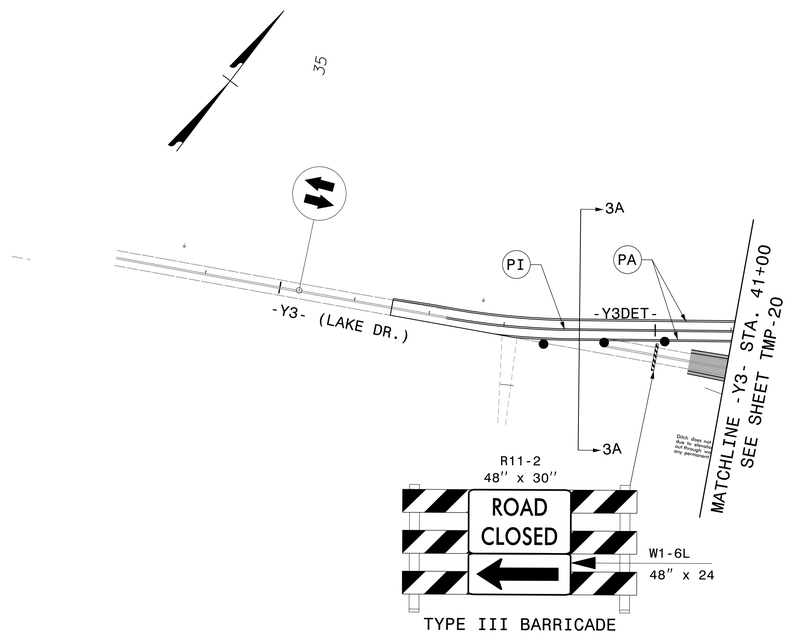

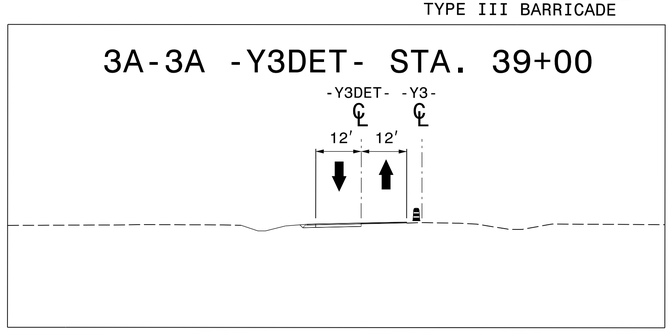

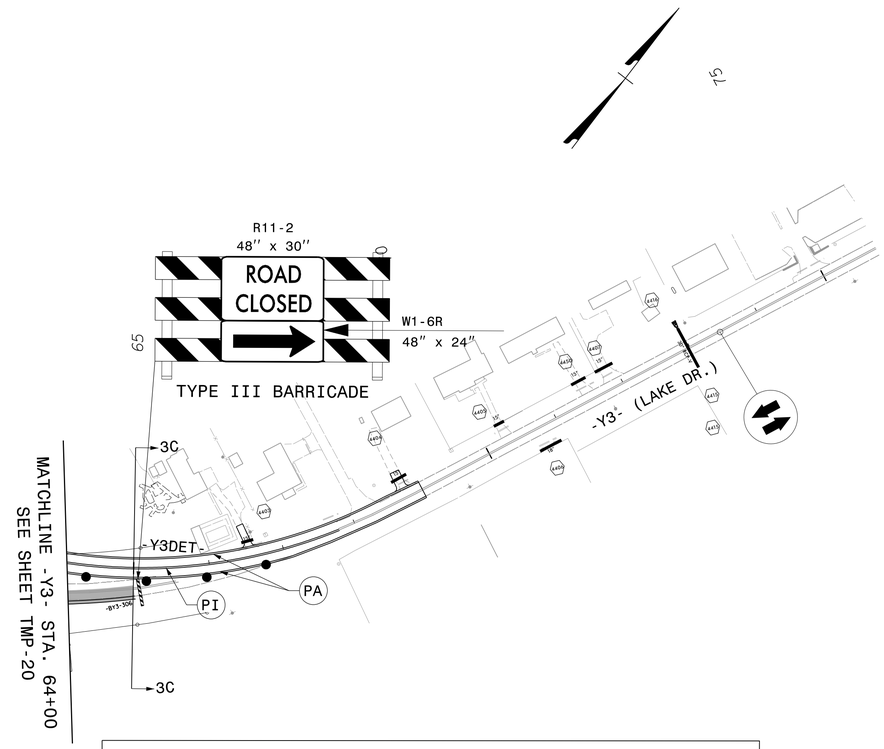

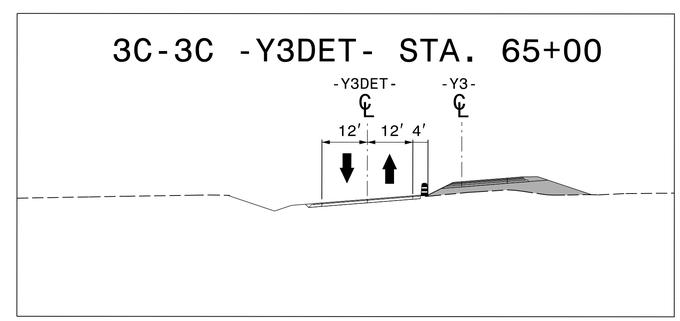

APPROVED: Ben Schoenbauer

DATE: 12/4/2018

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NORTH CAROLINA PROFESSIONAL SEAL 035496 ENGINEER BENJAMIN SCHOENBAUER

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AREA 3
PHASE 2

REVISIONS

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R-1015	TMP-22

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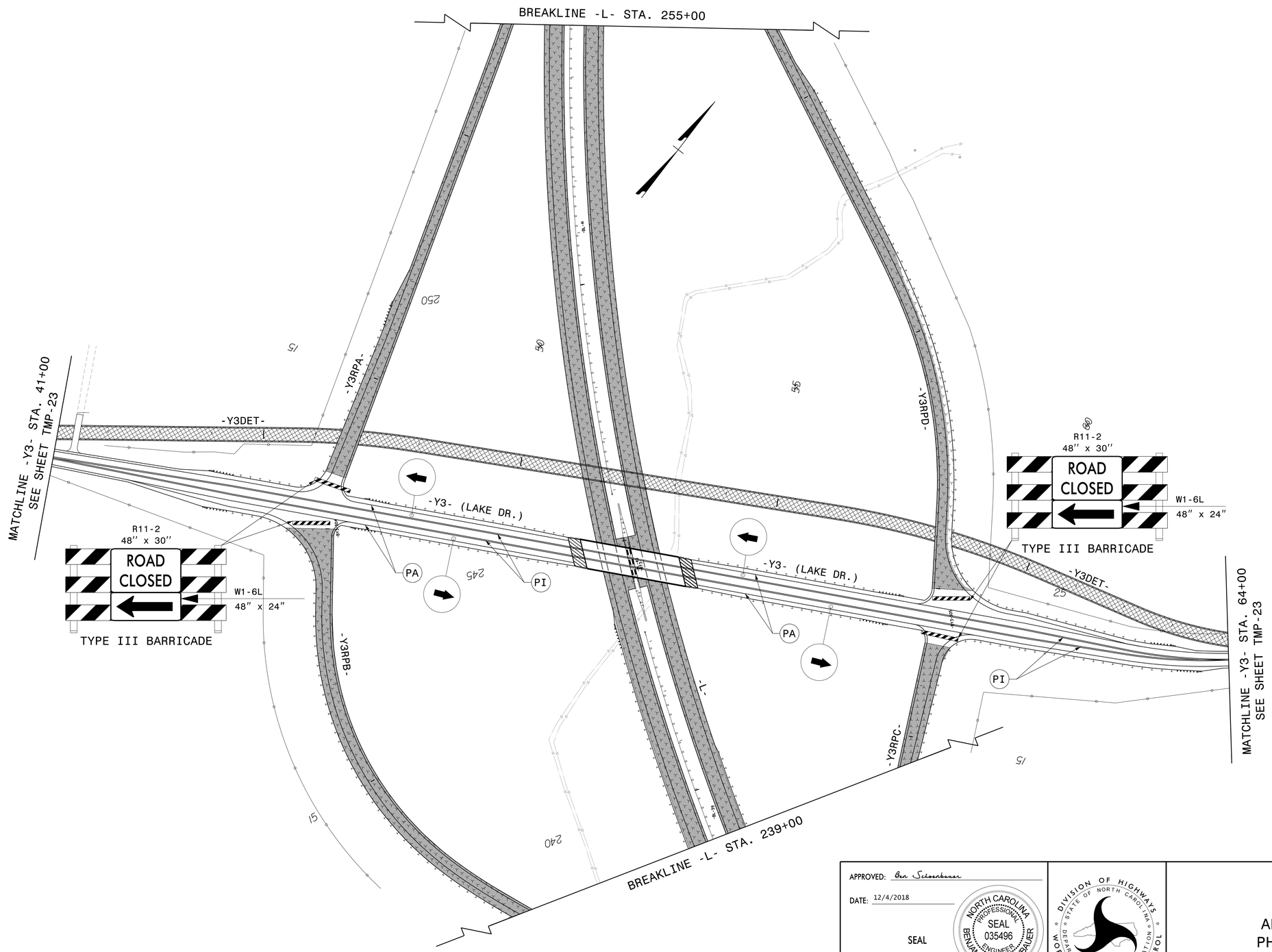

APPROVED: Ben Schoenbauer

DATE: 12/4/2018

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AREA 3
PHASE 3

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt PENTABLE: NCDOT_tcp.tbl
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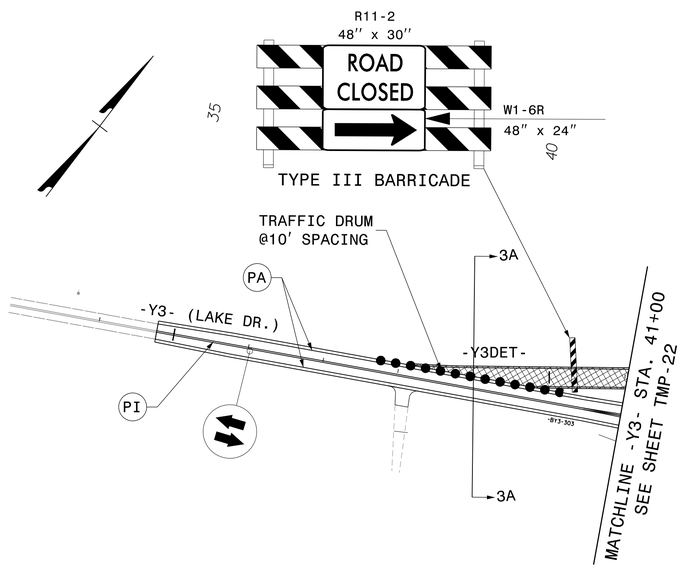
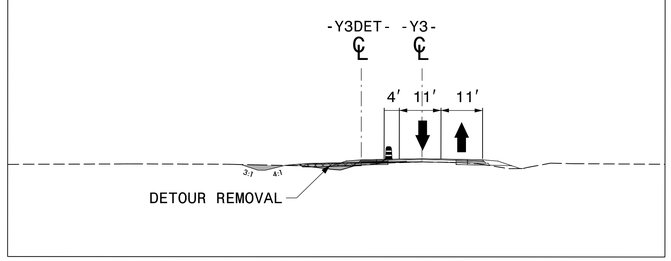


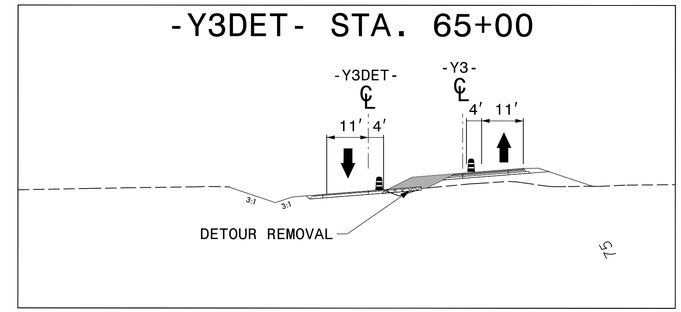
3A-3A STEP 2

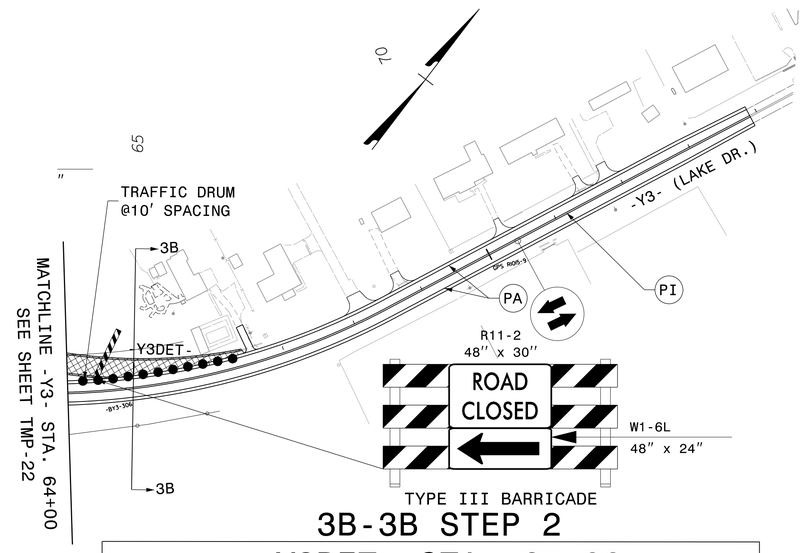
-Y3DET- STA. 39+00



3B-3B STEP 1

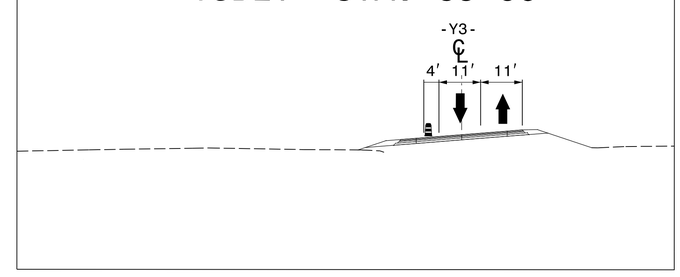
-Y3DET- STA. 65+00





3B-3B STEP 2

-Y3DET- STA. 65+00



APPROVED: Ben Schoenbauer

DATE: 12/4/2018

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AREA 3
PHASE 3

REVISIONS

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PROJ. REFERENCE NO.	SHEET NO.
R-1015	TMP-24

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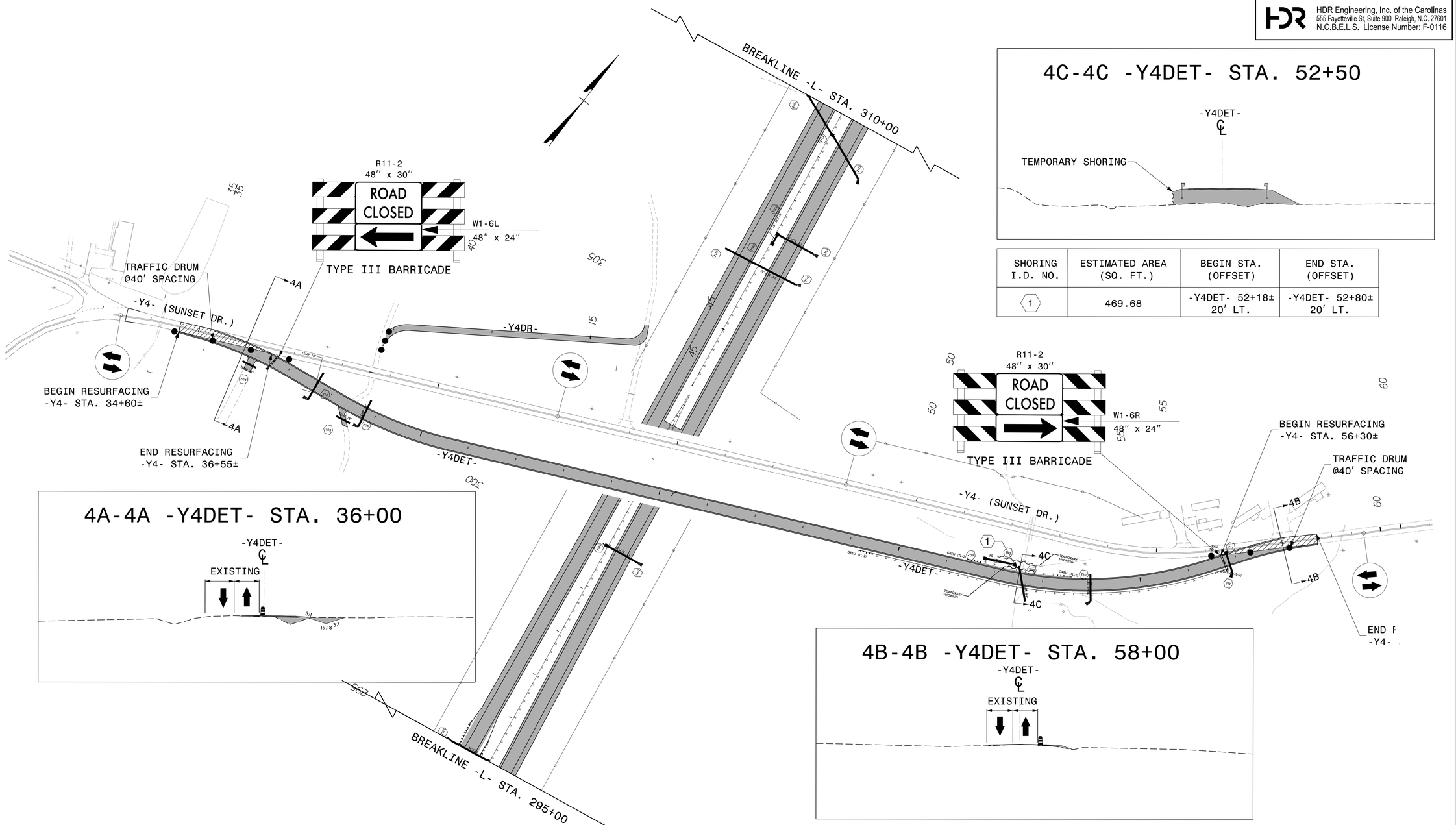

4C-4C -Y4DET- STA. 52+50

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.

4A-4A -Y4DET- STA. 36+00

4B-4B -Y4DET- STA. 58+00

APPROVED: Ben Schoenbauer

DATE: 12/17/2018

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AREA 4
PHASE 1

REVISIONS

1 12/17/2018: ADDED TEMPORARY GUARDRAIL -Y4DET-, 4C-4C -Y4DET- 52+50

PLOT DRIVER: NCDOT_pdf_color_eng.100.plt PENTABLE: NCDOT_tcp.tbl
USER: JWILES DATE: 12/17/2018 TIME: 9:21:26 AM
FILE: pw:\\pwhdruseas01:HDR_US_East_01\Documents\3322\10001376\10051230\6.0.CAD.BIM\6.2_Work_In_Progress\Traffic\TrafficControl\TCP\R1015_TC_TMP-24.dgn

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PROJ. REFERENCE NO.	SHEET NO.
R-1015	TMP-25

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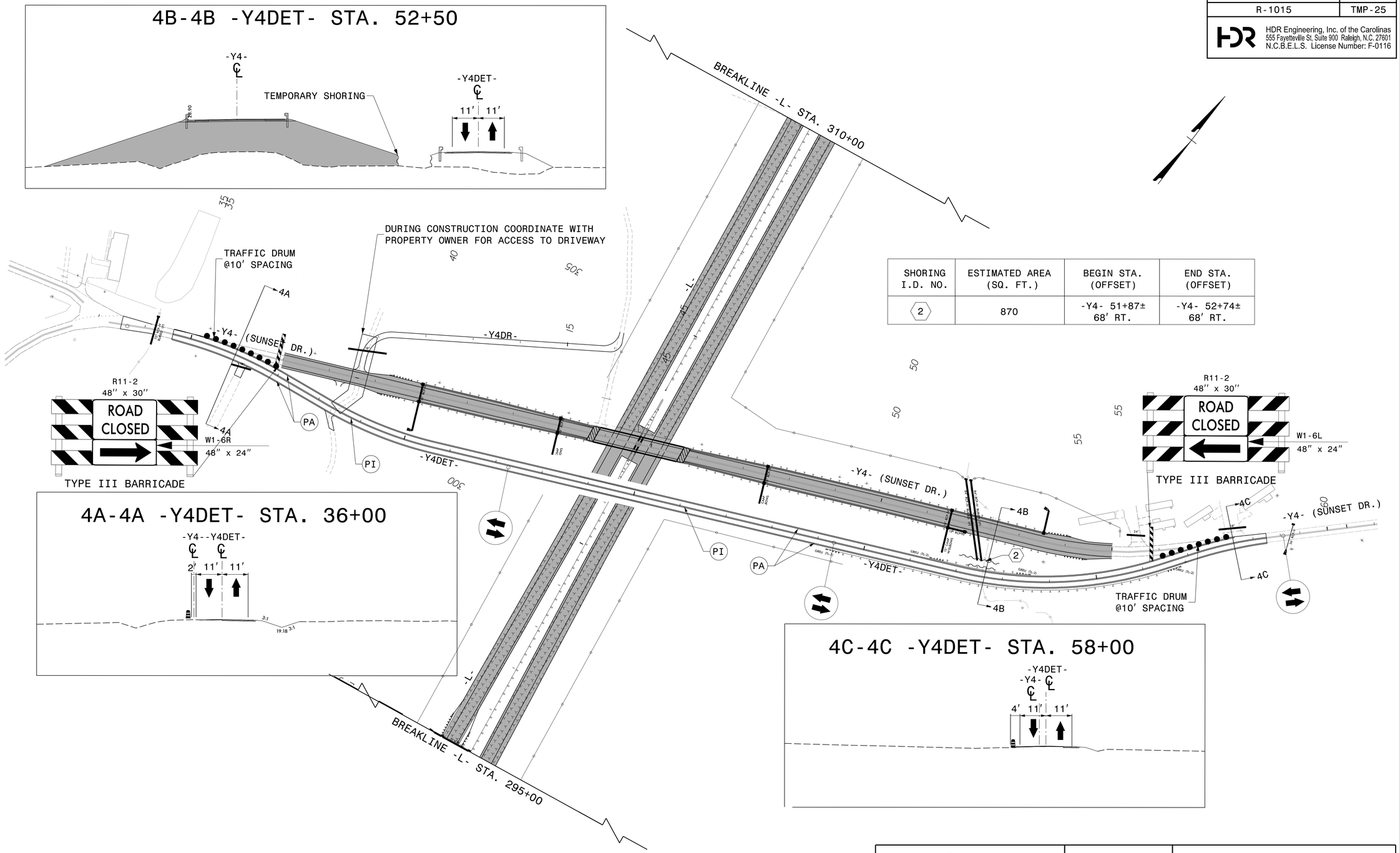

SHORING I.D. NO.	ESTIMATED AREA (SQ. FT.)	BEGIN STA. (OFFSET)	END STA. (OFFSET)
2	870	-Y4- 51+87± 68' RT.	-Y4- 52+74± 68' RT.

APPROVED: Ben Schoenbauer

DATE: 12/17/2018

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AREA 4
PHASE 2

REVISIONS

1 12/17/2018: ADDED TEMPORARY GUARDRAIL -Y4DET-, 4B-4B -Y4DET- 52+50

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt PENTABLE: NCDOT_tcp.tbl
USER: JWILES DATE: 12/17/2018 TIME: 9:21:34 AM
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PROJ. REFERENCE NO.	SHEET NO.
R-1015	TMP-26

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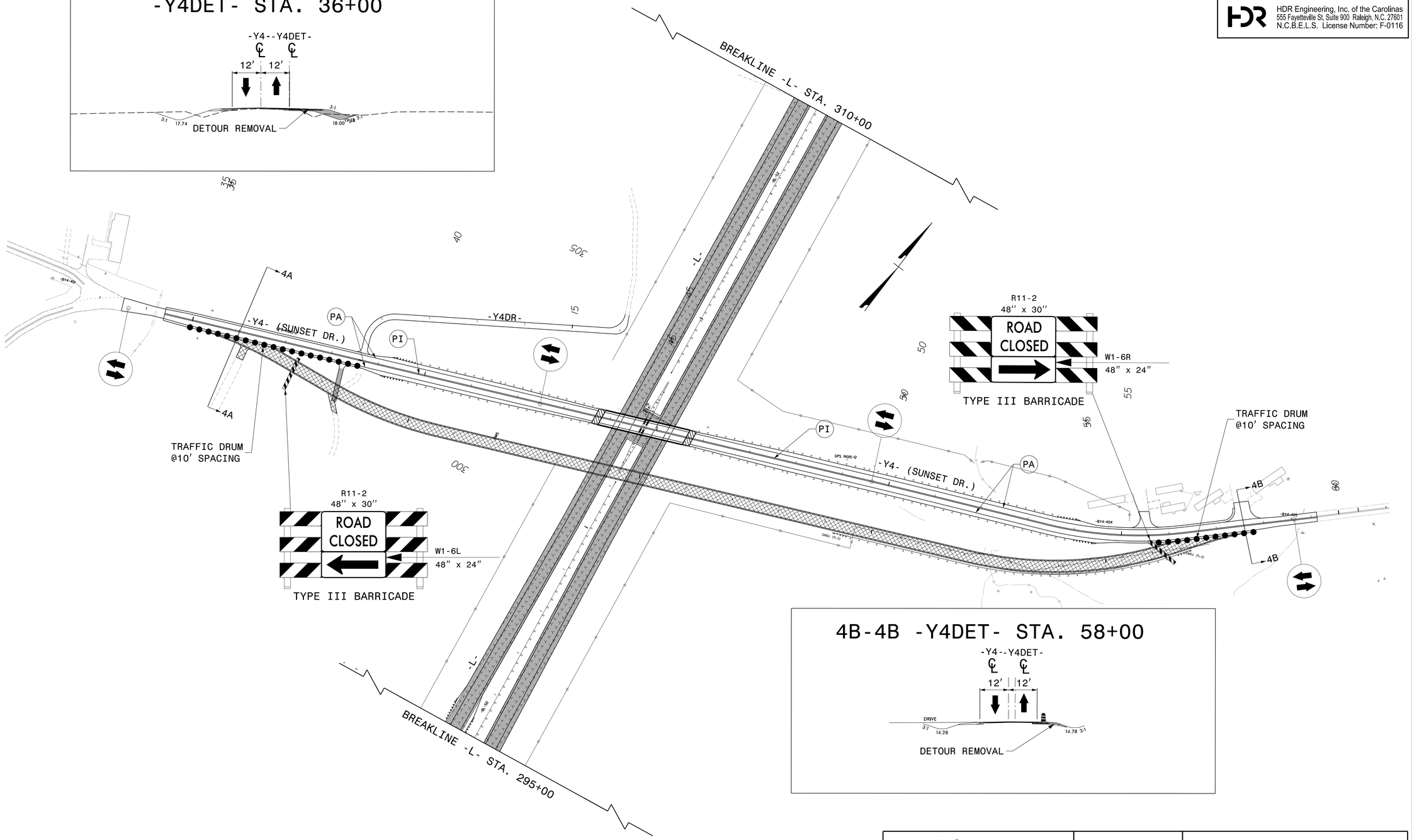
4A-4A STEP 1
-Y4DET- STA. 36+00



4B-4B -Y4DET- STA. 58+00

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DATE: 12/4/2018

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AREA 4
PHASE 3

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng.100.plt PENTABLE: NCDOT_tcp.tbl
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PROJ. REFERENCE NO.	SHEET NO.
R-1015	TMP-27

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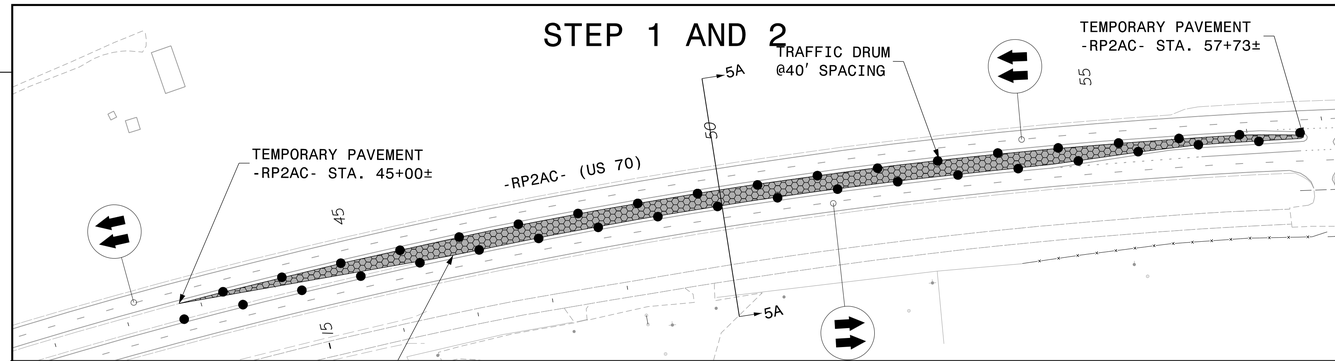
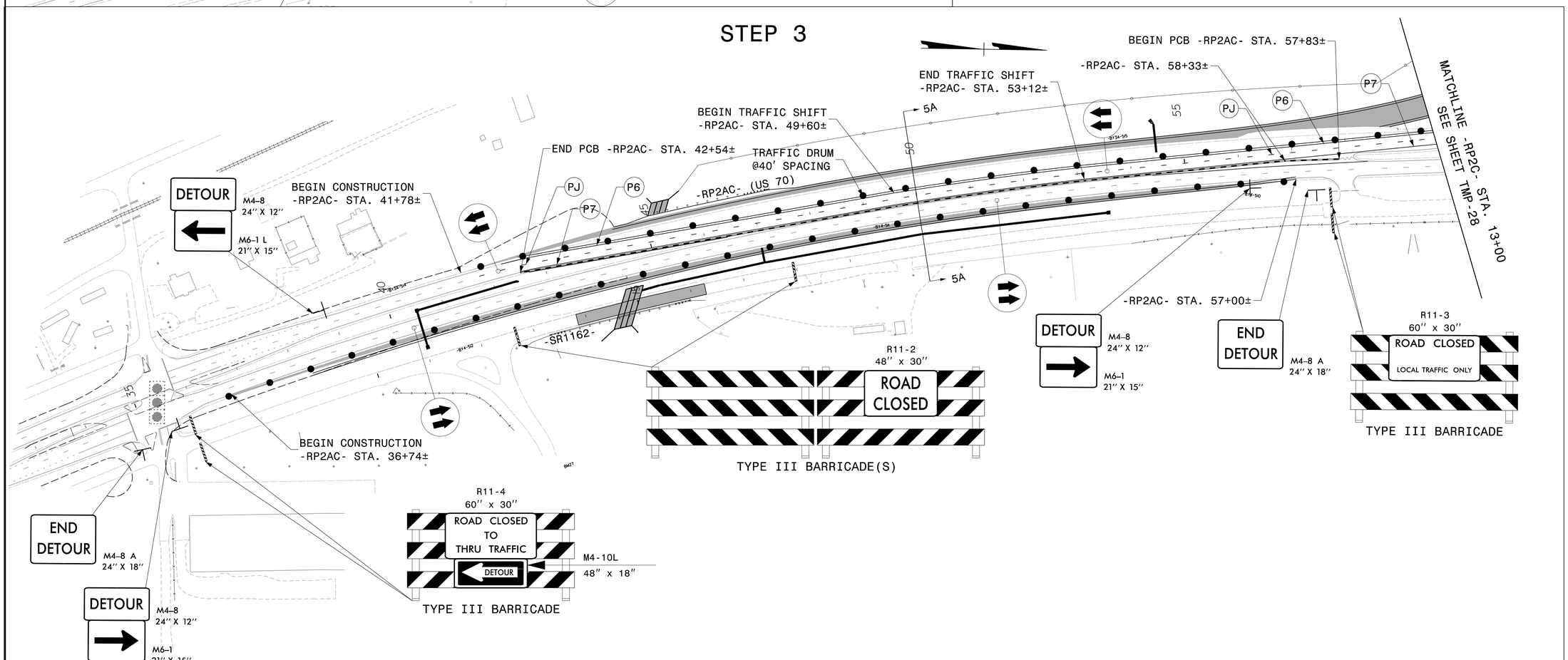
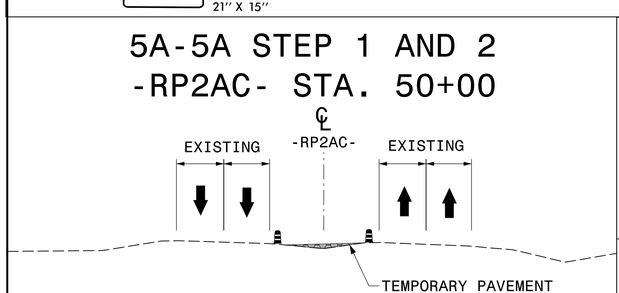
STEP 1 AND 2



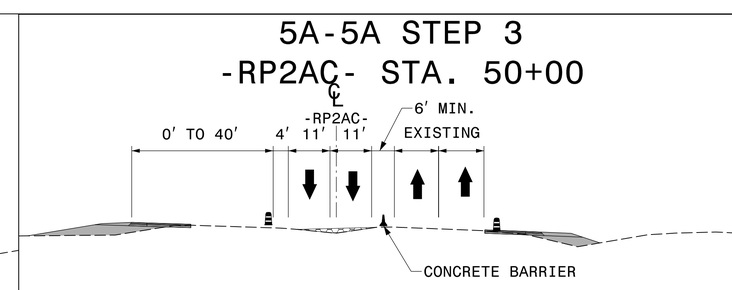
STEP 3



5A-5A STEP 1 AND 2
-RP2AC- STA. 50+00



5A-5A STEP 3
-RP2AC- STA. 50+00



APPROVED: Ben Schoenbauer

DATE: 12/4/2018

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AREA 5
PHASE 1

REVISIONS

PLOT DRIVER: NCDOT_pdf.color_eng.100.plt PENTABLE: NCDOT_tcp.tbl
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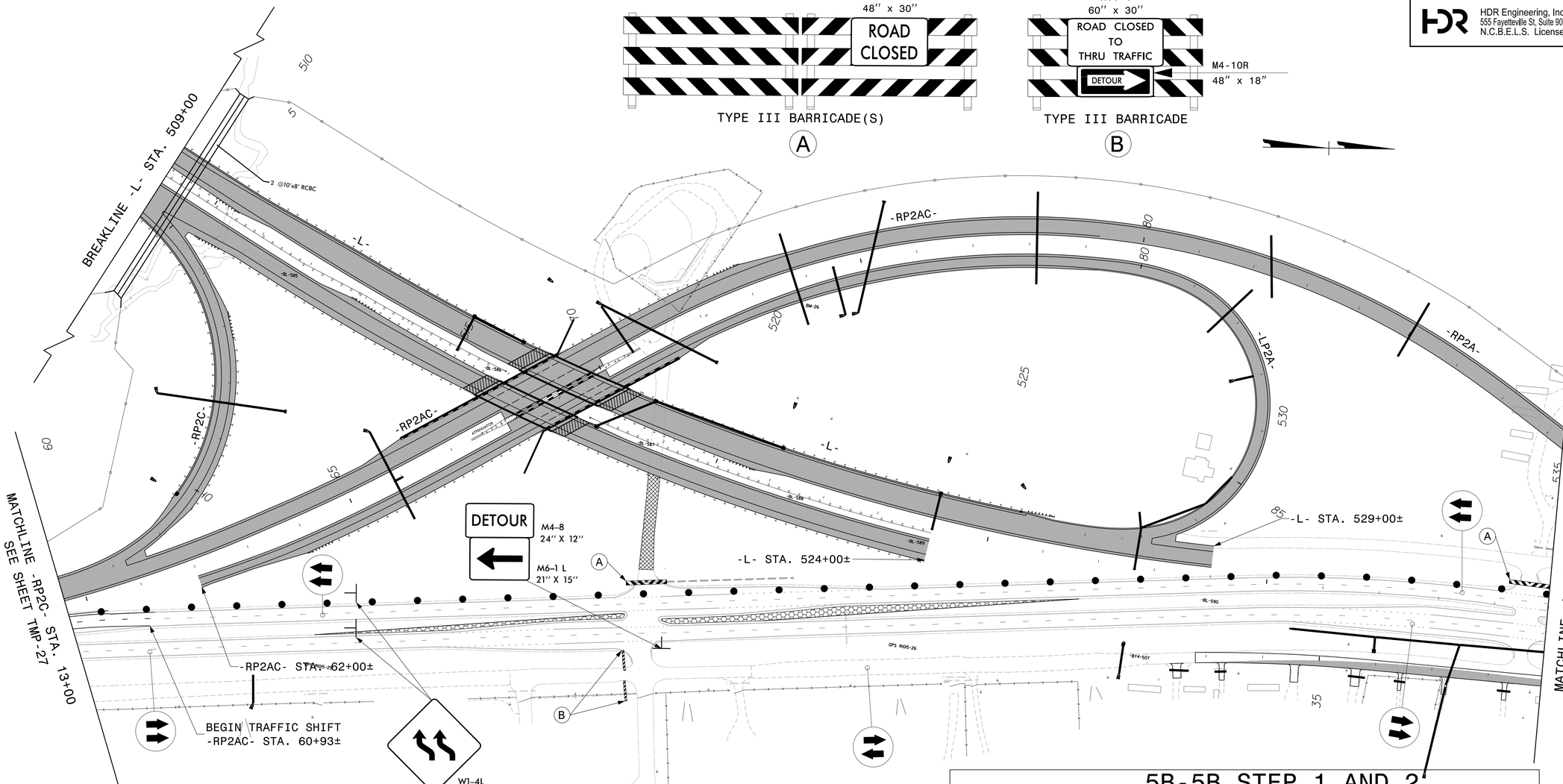
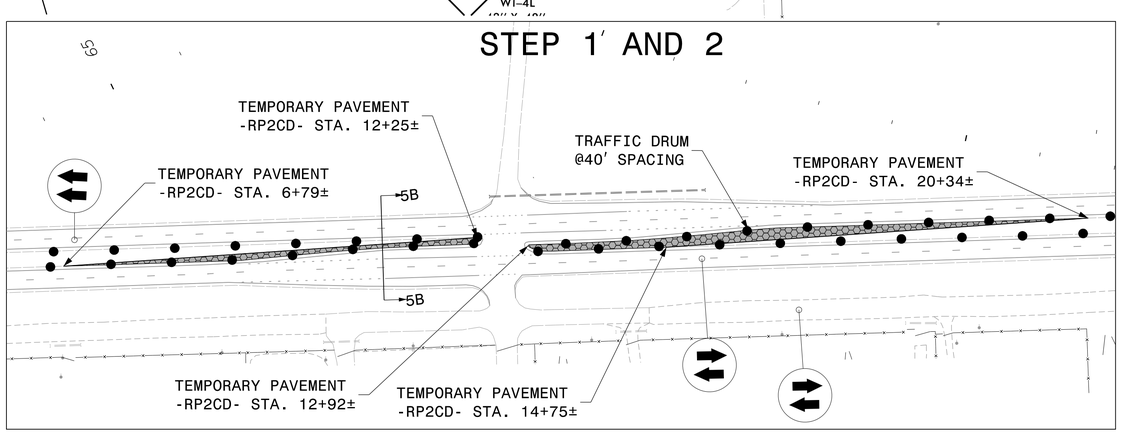
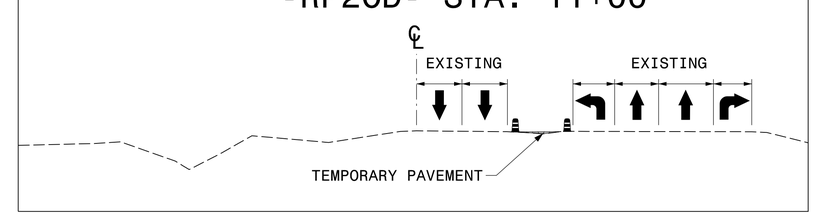


STEP 1 AND 2



5B-5B STEP 1 AND 2
-RP2CD- STA. 11+00



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DATE: 12/4/2018

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AREA 5
PHASE 1

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt PENTABLE: NCDOT_tcp.tbl
USER: JWILES DATE: 12/4/2018 TIME: 11:45:08 AM
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R-1015	TMP-29

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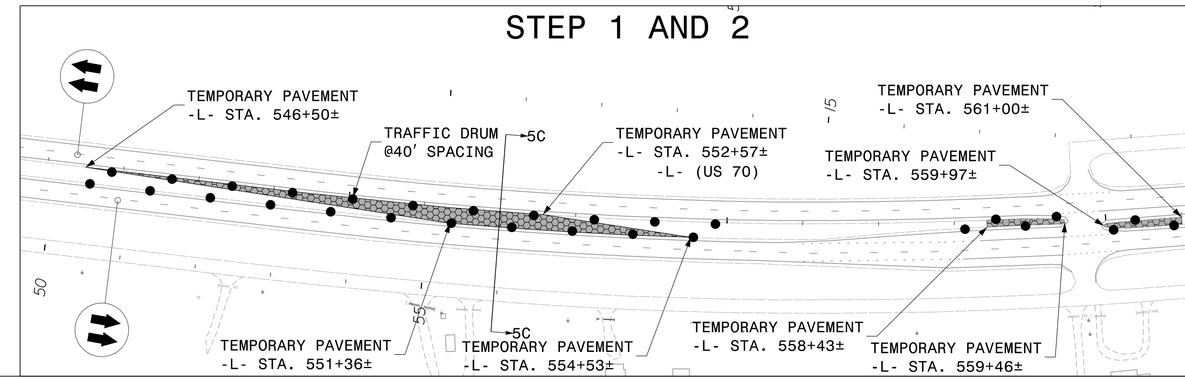
STEP 1 AND 2



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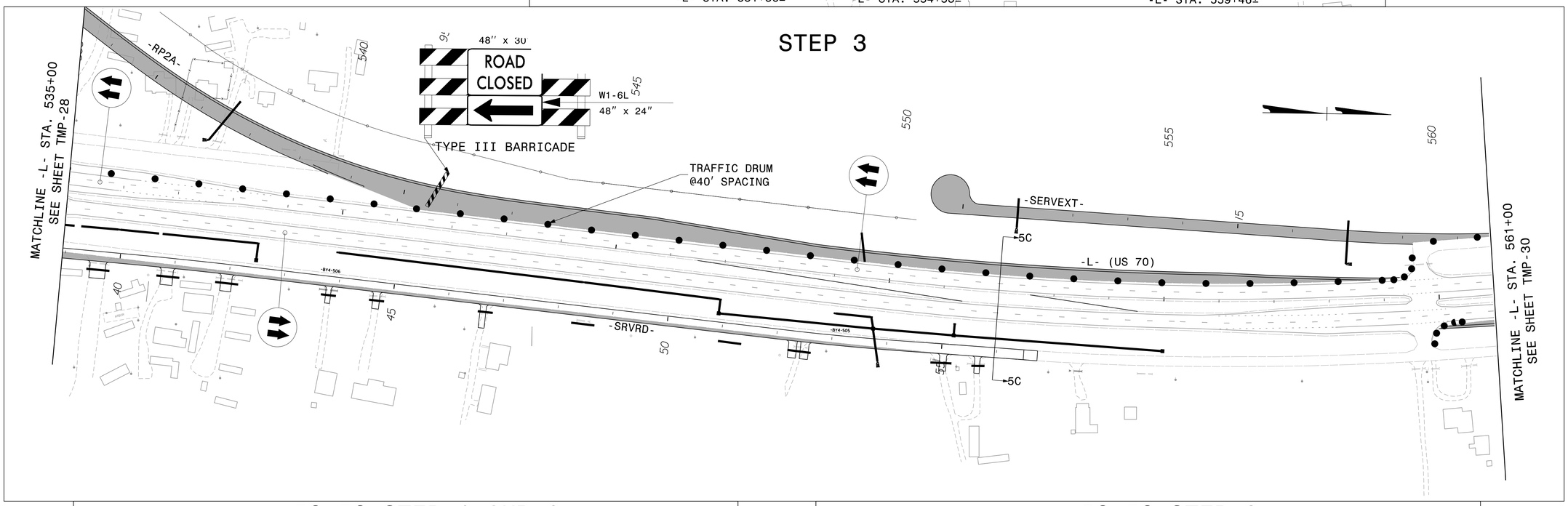
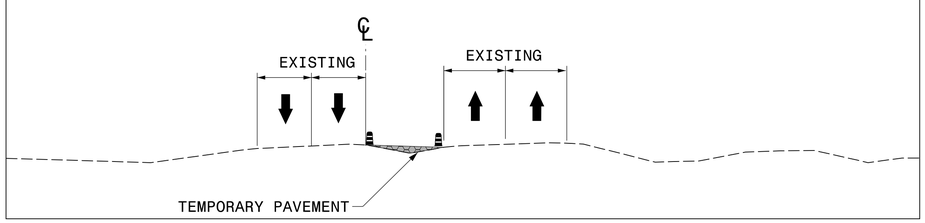
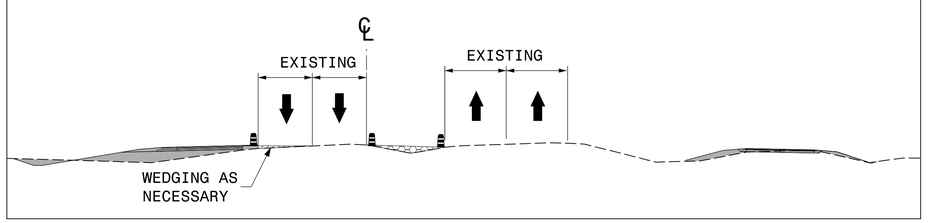


5C-5C STEP 1 AND 2
-L- STA. 552+00



5C-5C STEP 3
-L- STA. 552+00



APPROVED: Ben Schoenbauer

DATE: 12/4/2018

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AREA 5
PHASE 1

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt PENTABLE: NCDOT_tcp.tbl
USER: JWILES DATE: 12/4/2018 TIME: 11:45:14 AM
FILE: pw:\\pwhdruseas01:HDR_US_East_01\Documents\3322\10001376\10051230\6.0_CAD_BIM\6.2_Work_In_Progress\Traffic\TrafficControl\TCP\R1015_TC_TMP-29.dgn

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R-1015	TMP-30

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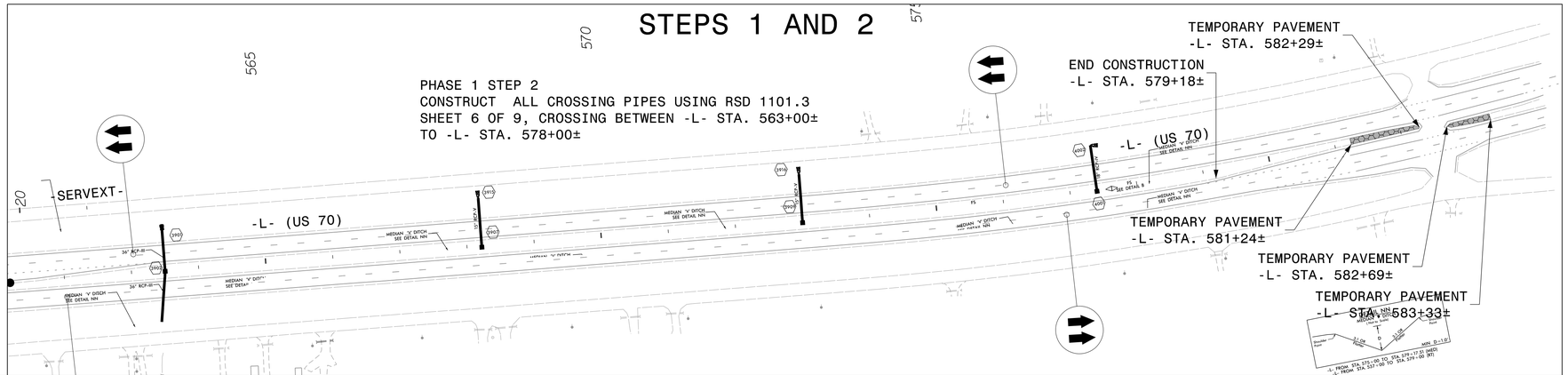
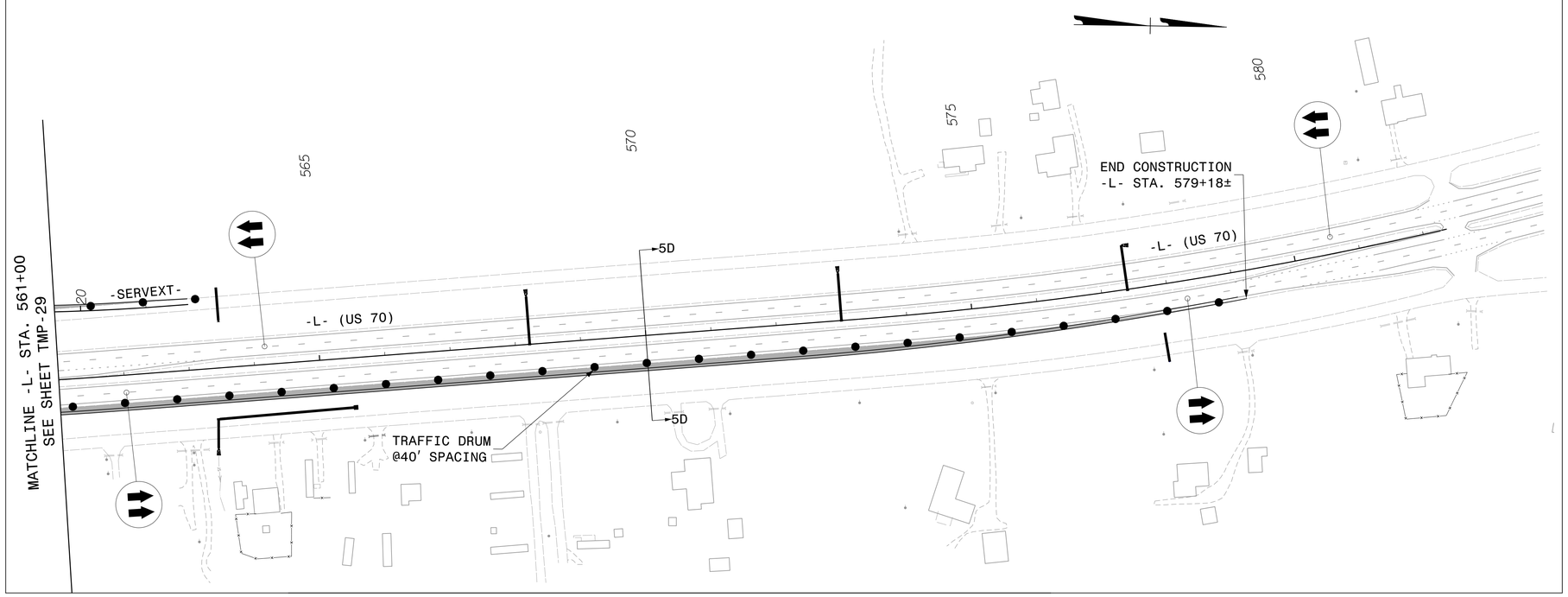
STEPS 1 AND 2



STEP 3



REVISIONS

APPROVED: Ben Schoenbauer

DATE: 12/4/2018

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NORTH CAROLINA PROFESSIONAL SEAL 035496 ENGINEER BENJAMIN SCHOENBAUER

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AREA 5
PHASE 1

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R-1015	TMP-31

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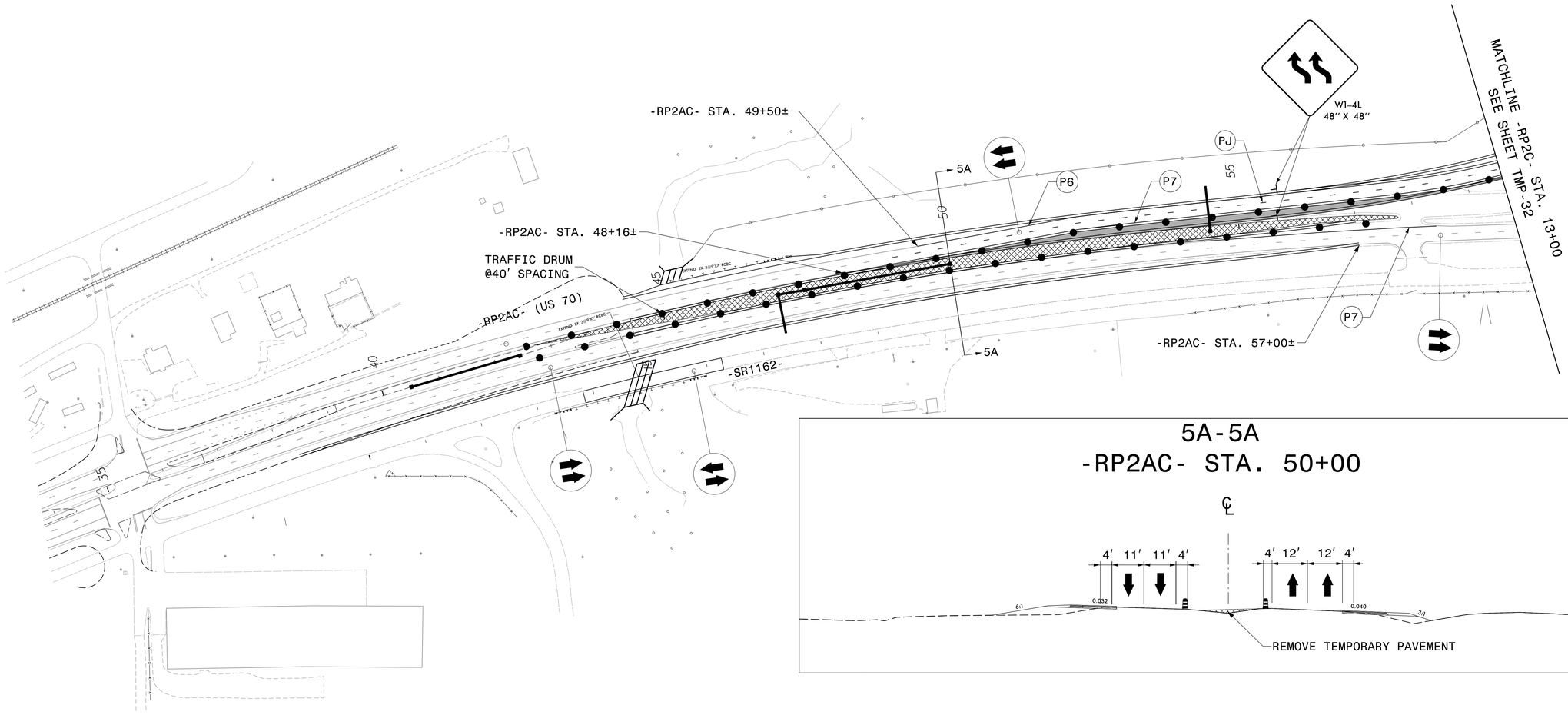

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DATE: 12/4/2018

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AREA 5
PHASE 2

REVISIONS

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R-1015	TMP-32

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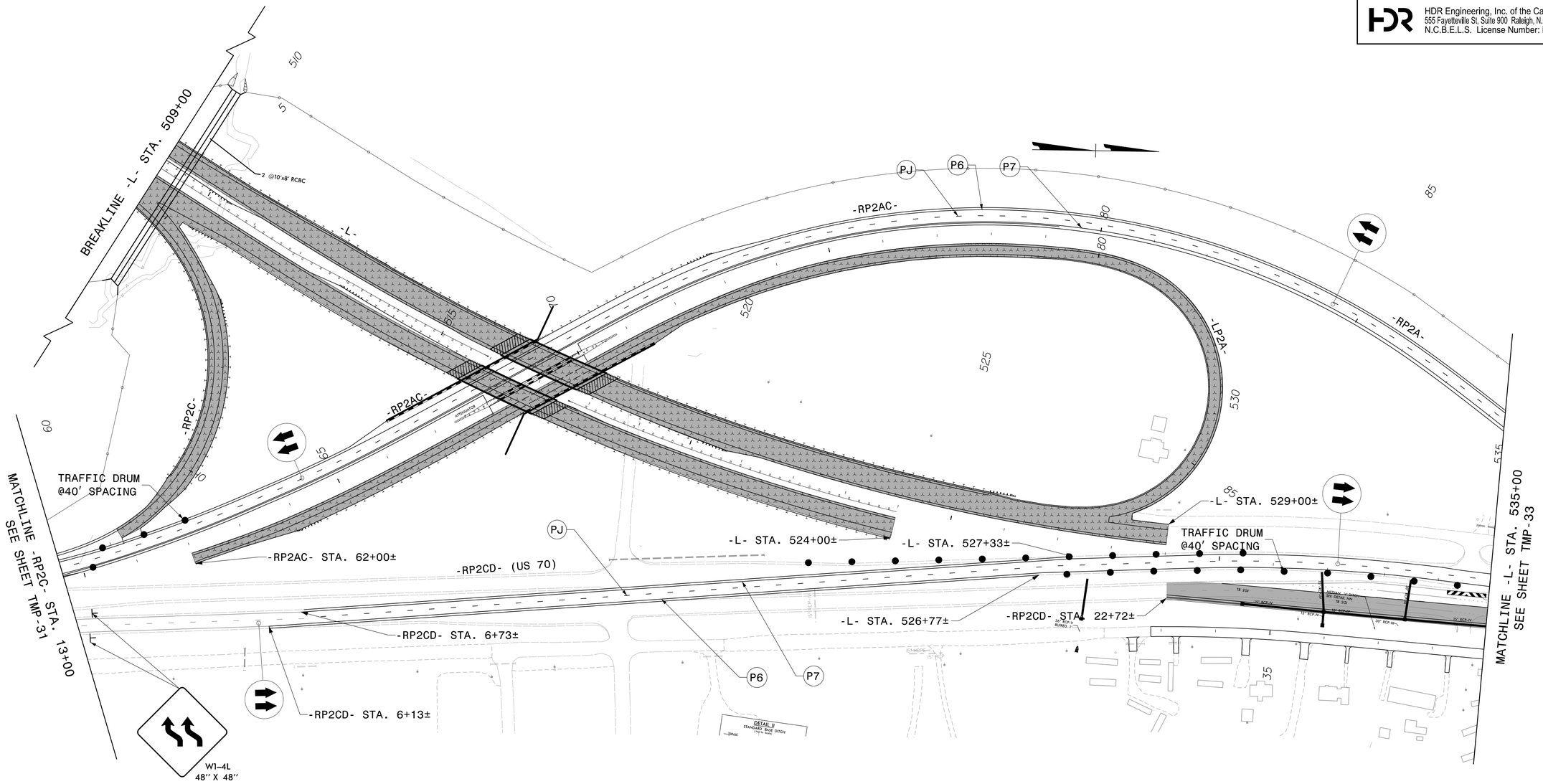

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AREA 5
PHASE 2

REVISIONS

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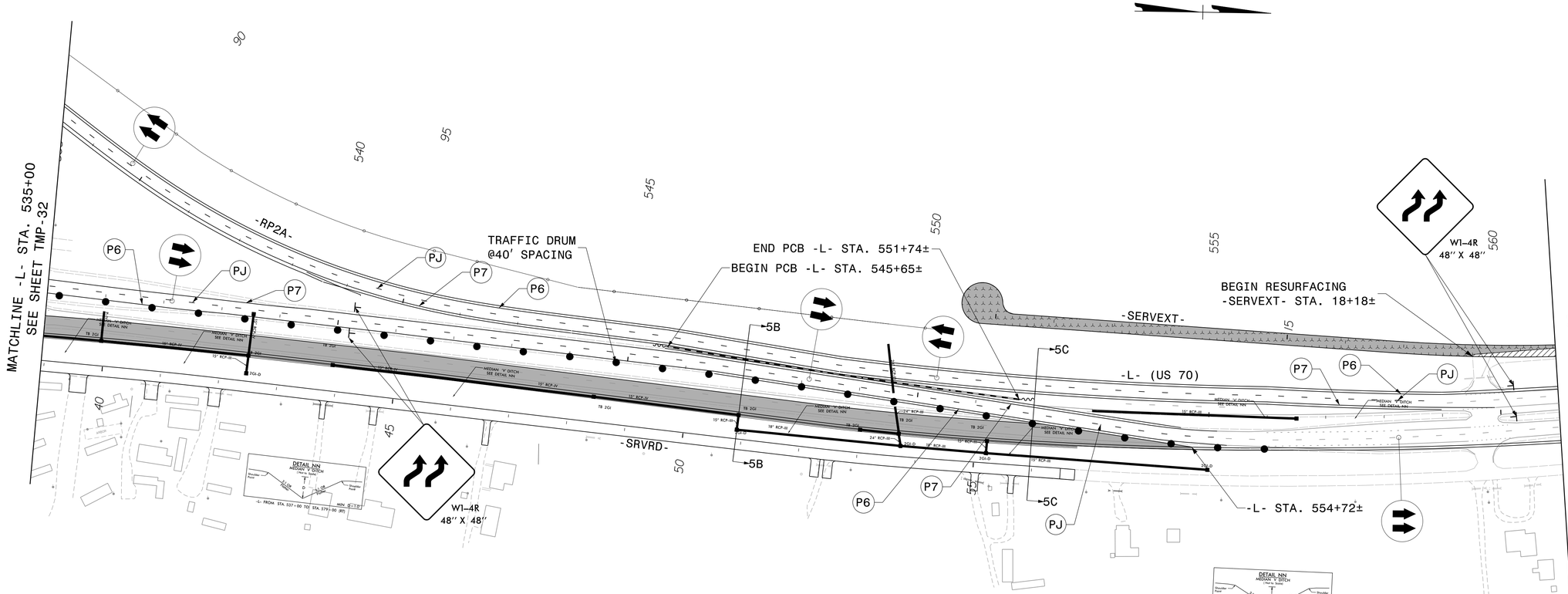

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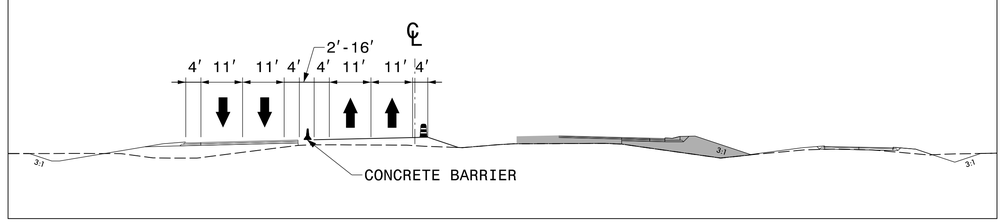

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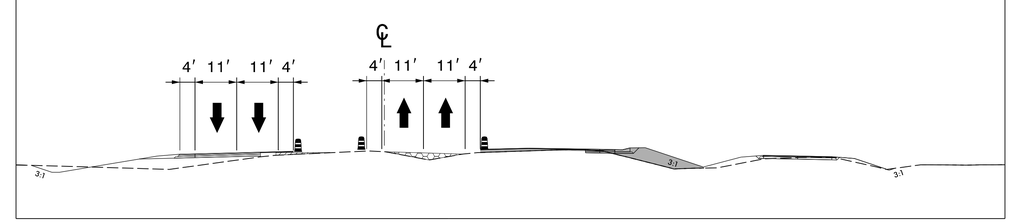

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AREA 5
PHASE 2

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng.100.plt PENTABLE: NCDOT_tcp.tbl
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R-1015	TMP-34

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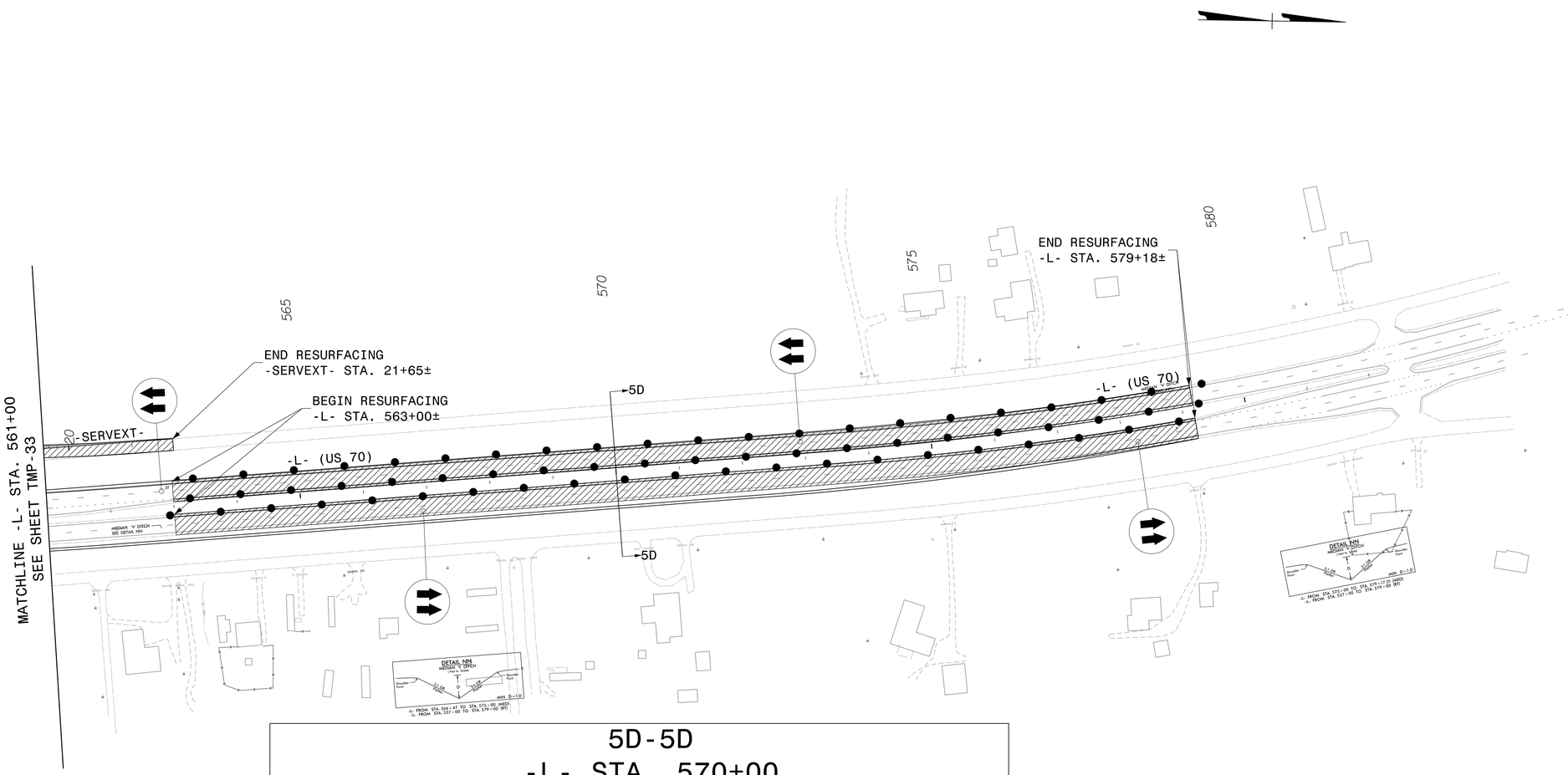

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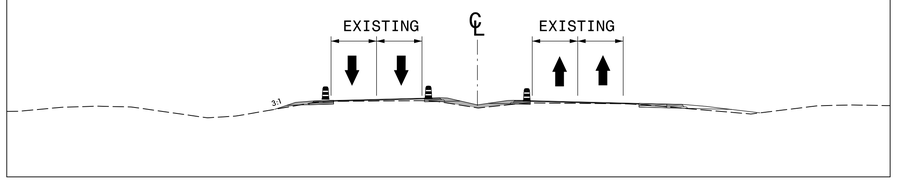

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AREA 5
PHASE 2

REVISIONS

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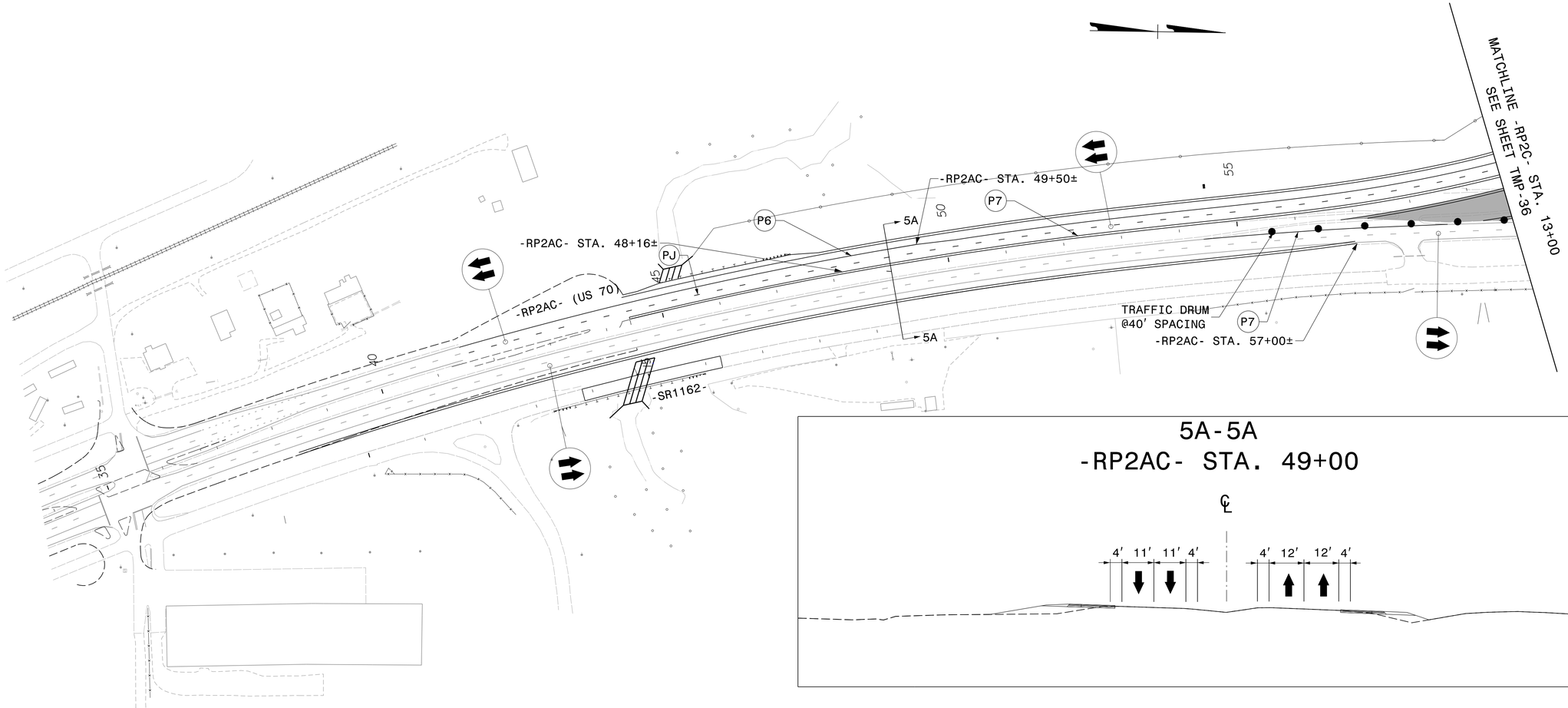

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AREA 5
PHASE 3

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt PENTABLE: NCDOT_tcp.tbl
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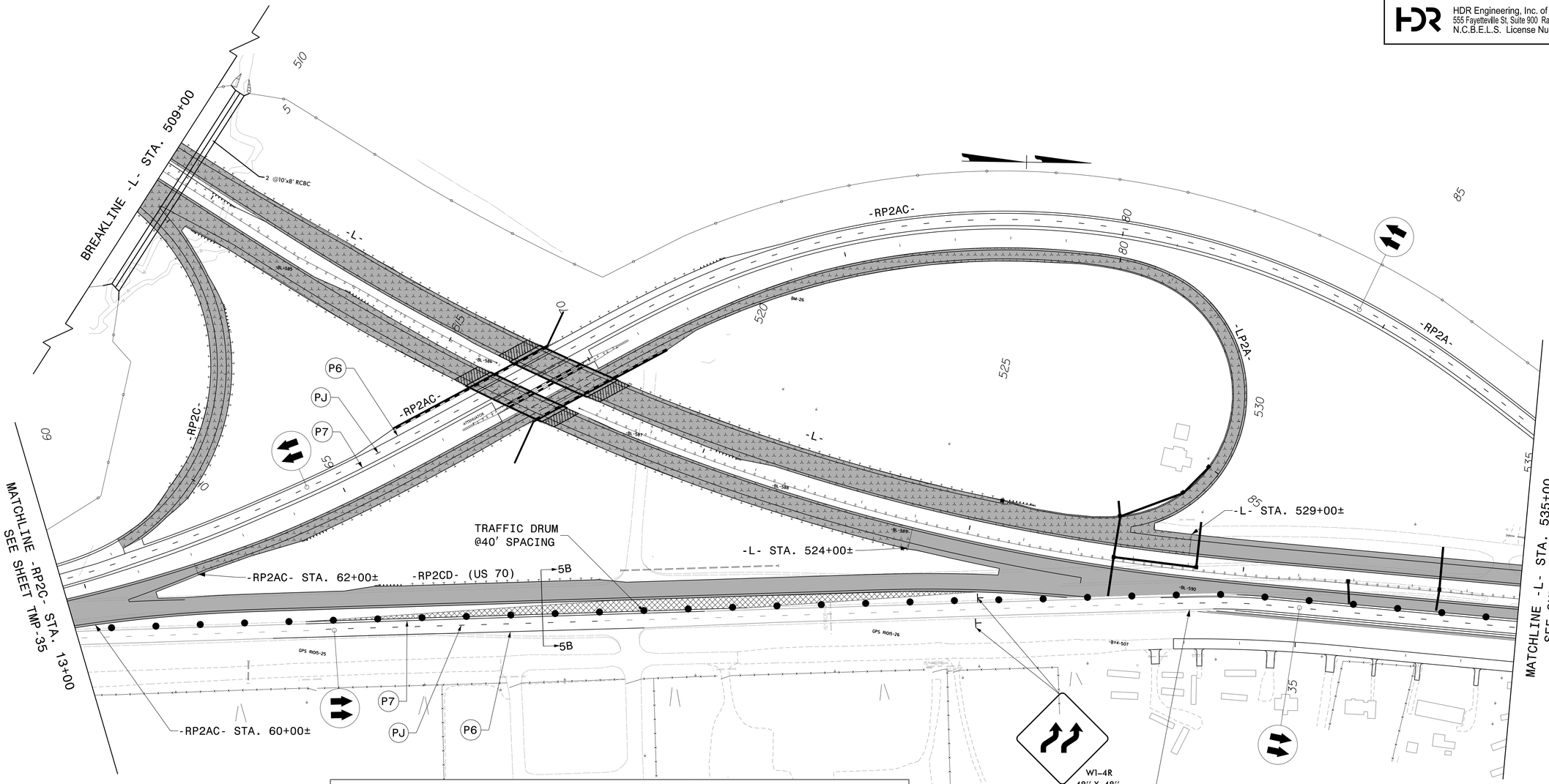

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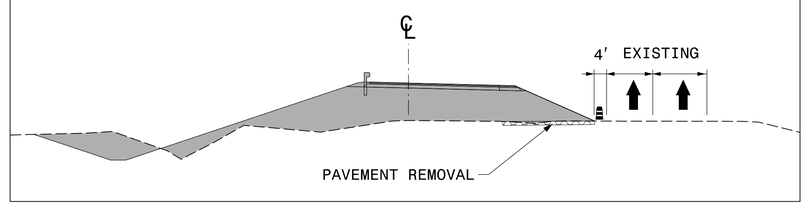

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AREA 5
PHASE 3

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt PENTABLE: NCDOT_tcp.tbl
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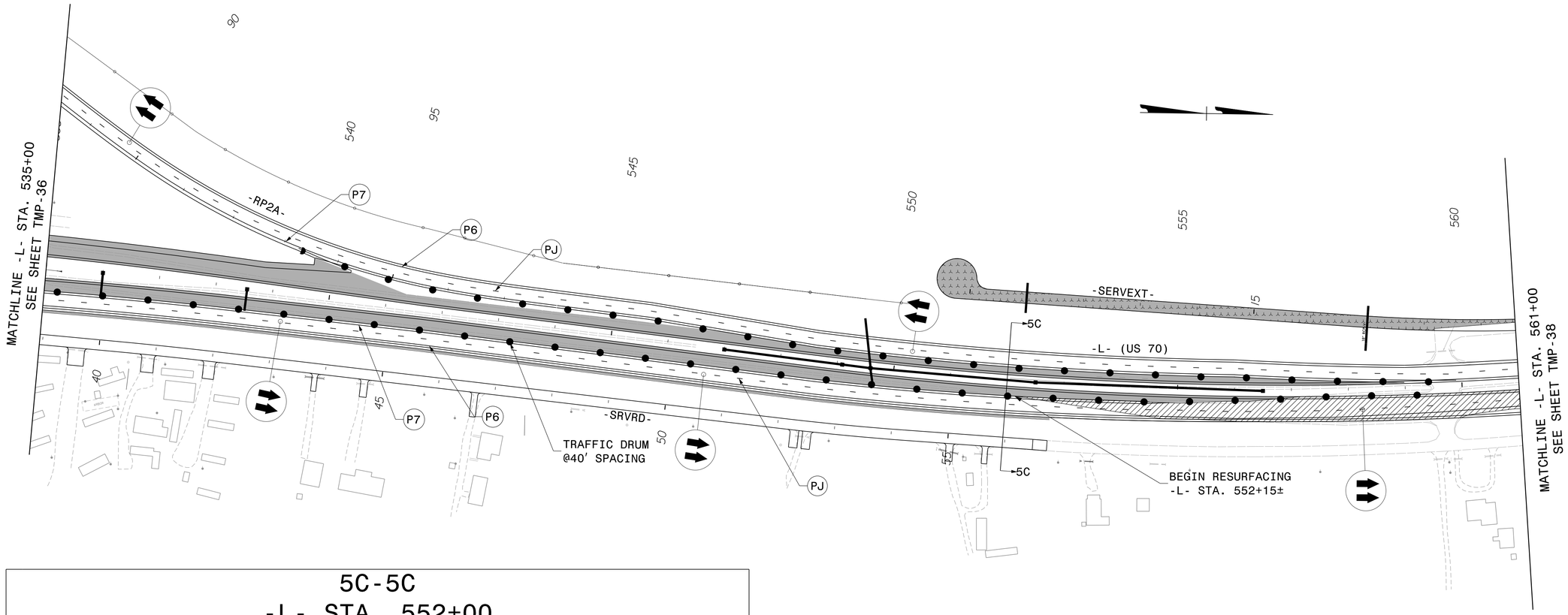

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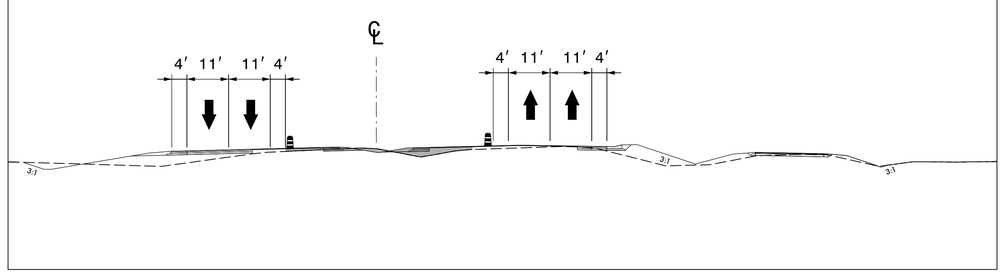

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AREA 5
PHASE 3

REVISIONS

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R-1015	TMP-38

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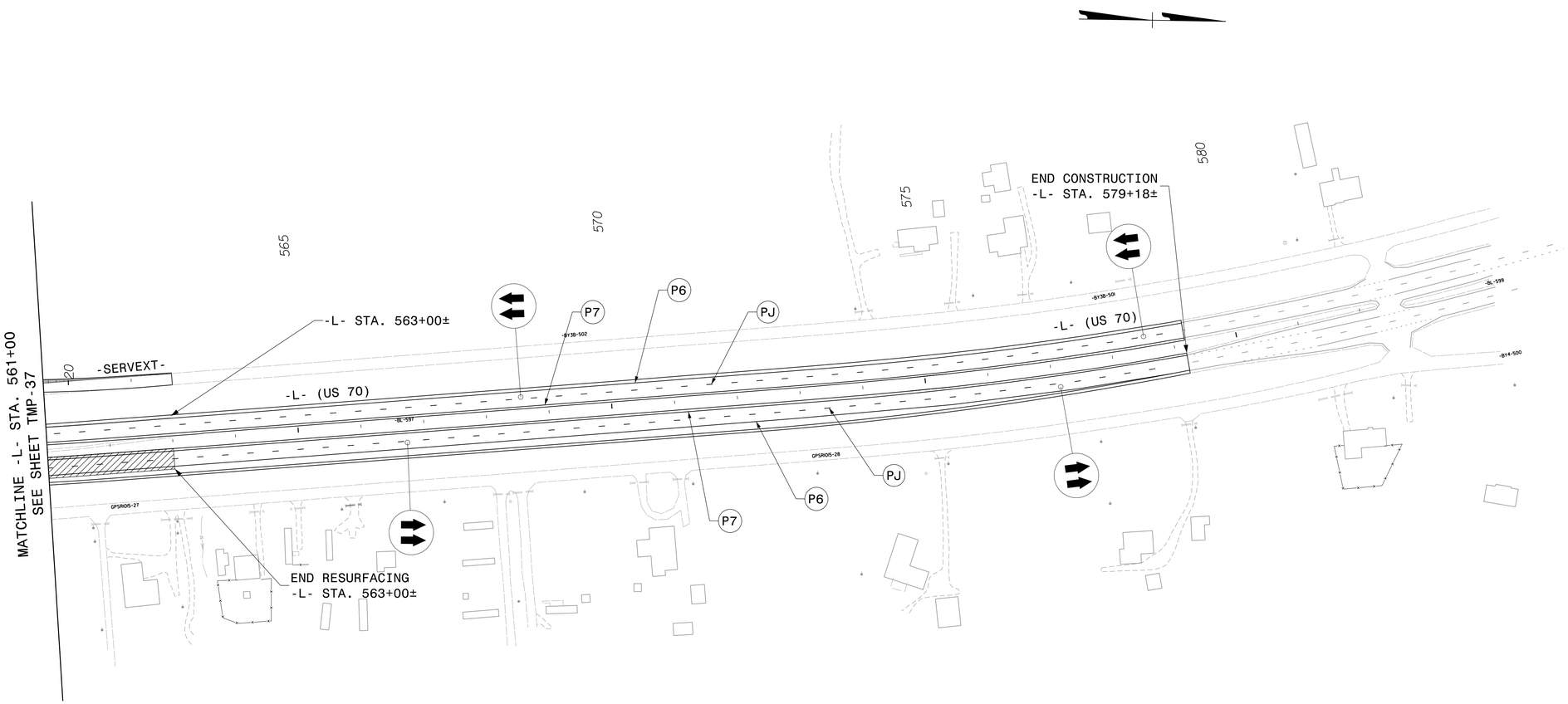

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AREA 5
PHASE 3

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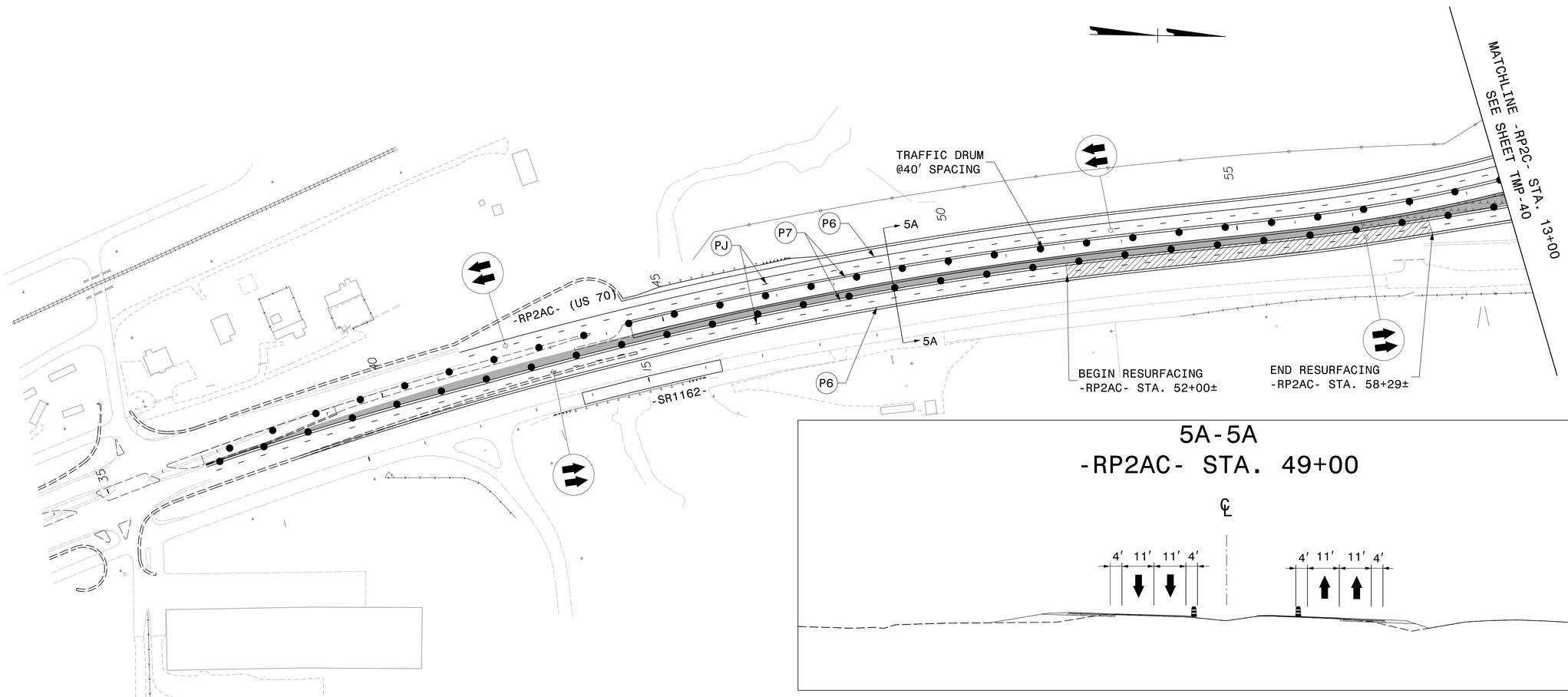

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AREA 5
PHASE 4

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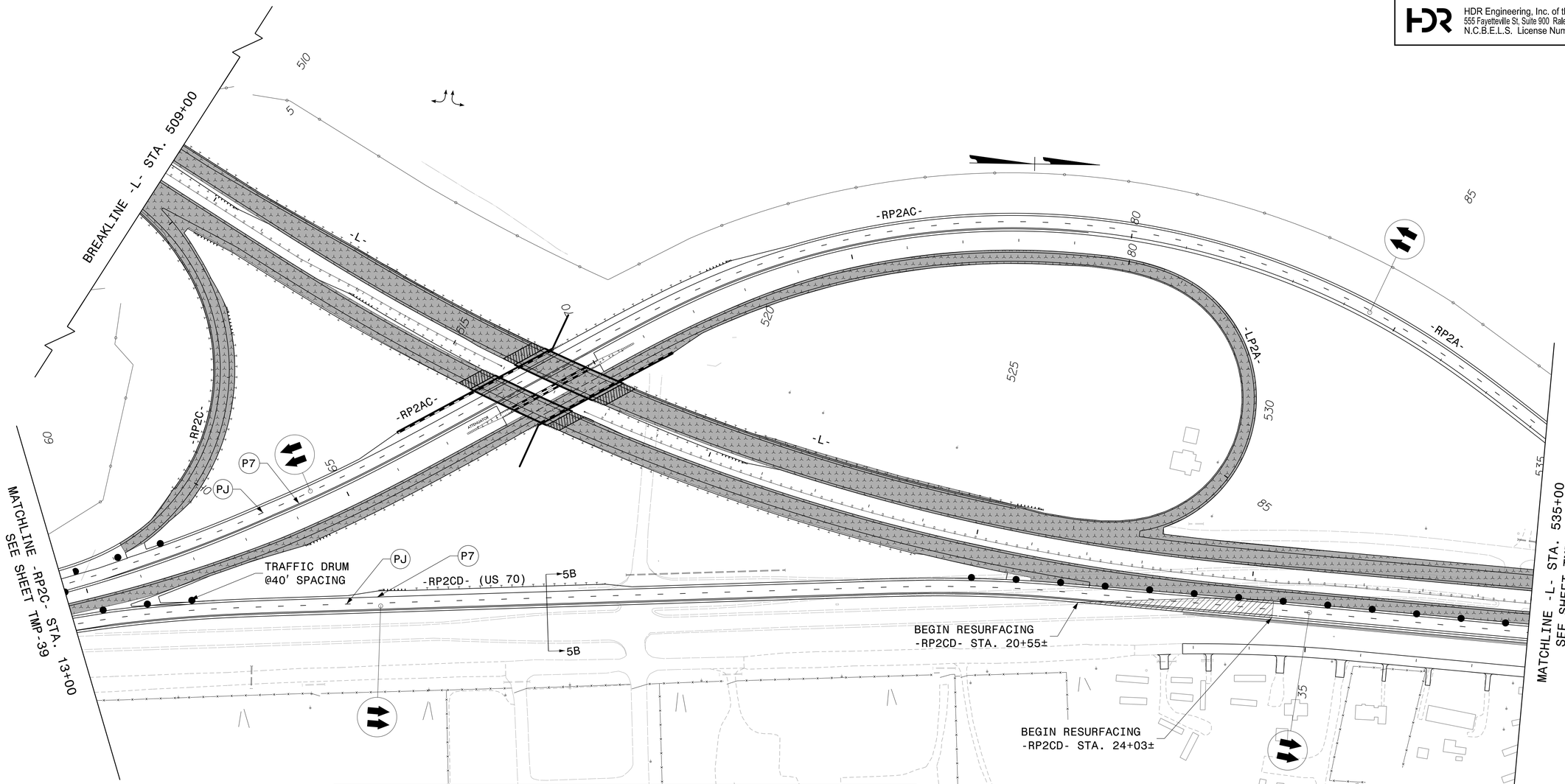

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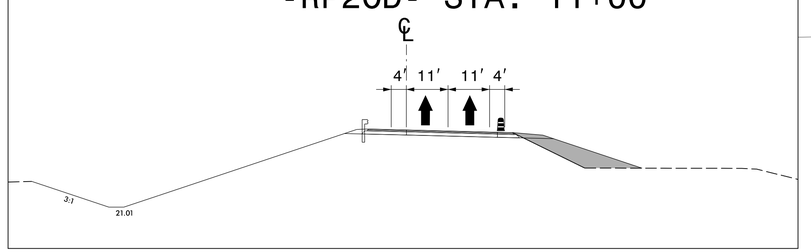

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AREA 5
PHASE 4

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt PENTABLE: NCDOT_tcp.tbl
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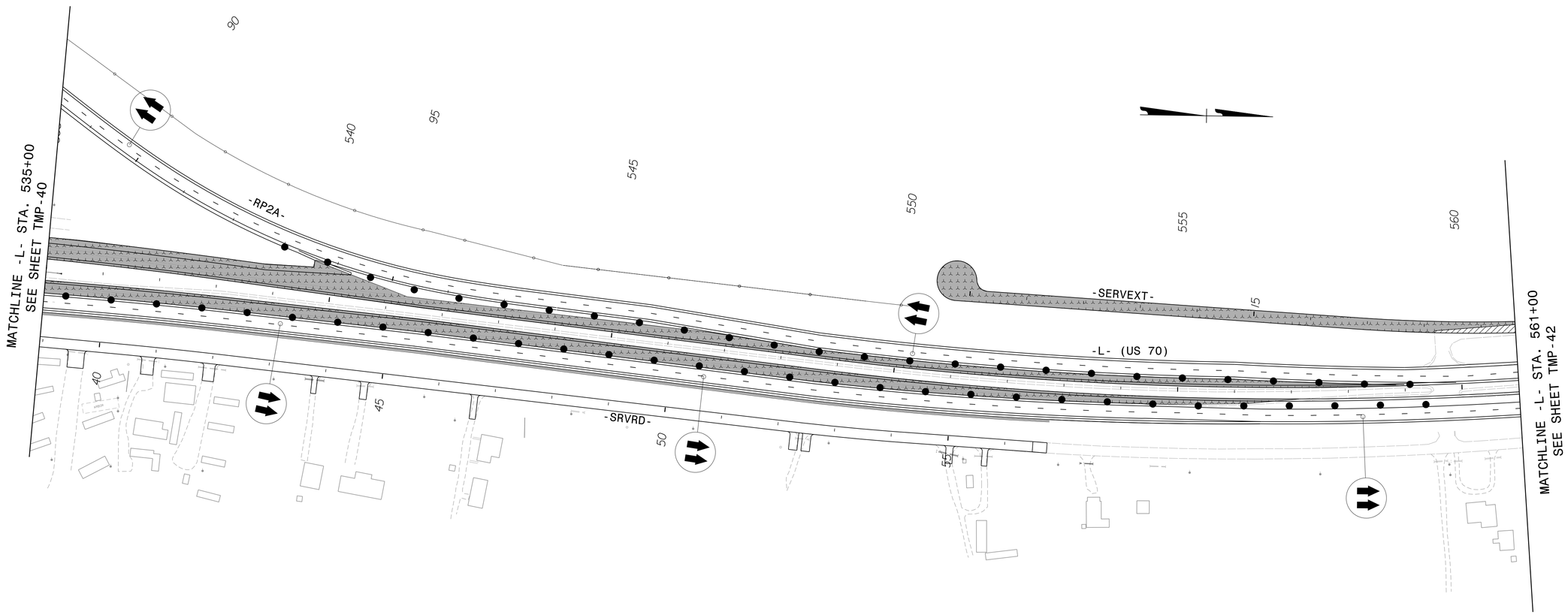

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DATE: 12/4/2018

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AREA 5
PHASE 4

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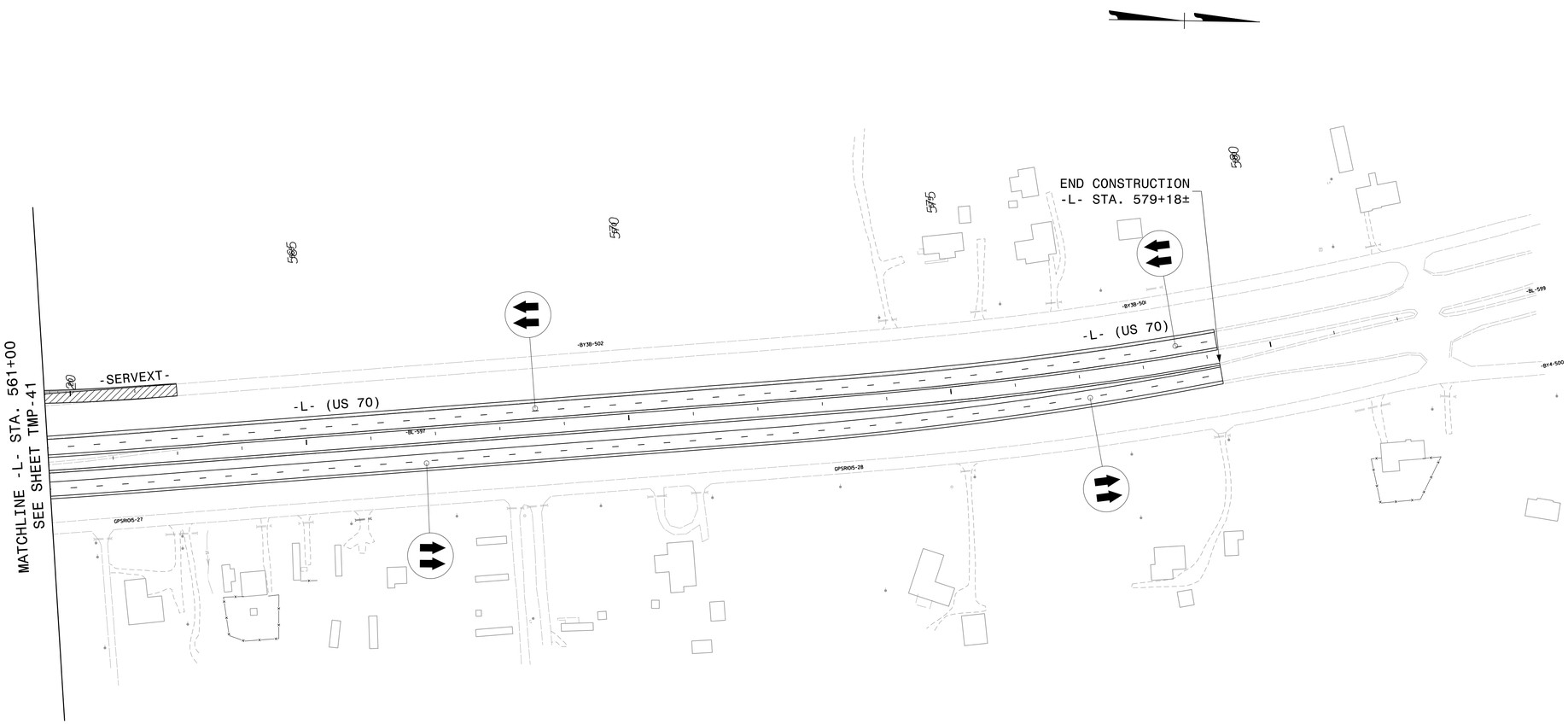

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APPROVED: Ben Schoenbauer

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AREA 5
PHASE 4

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