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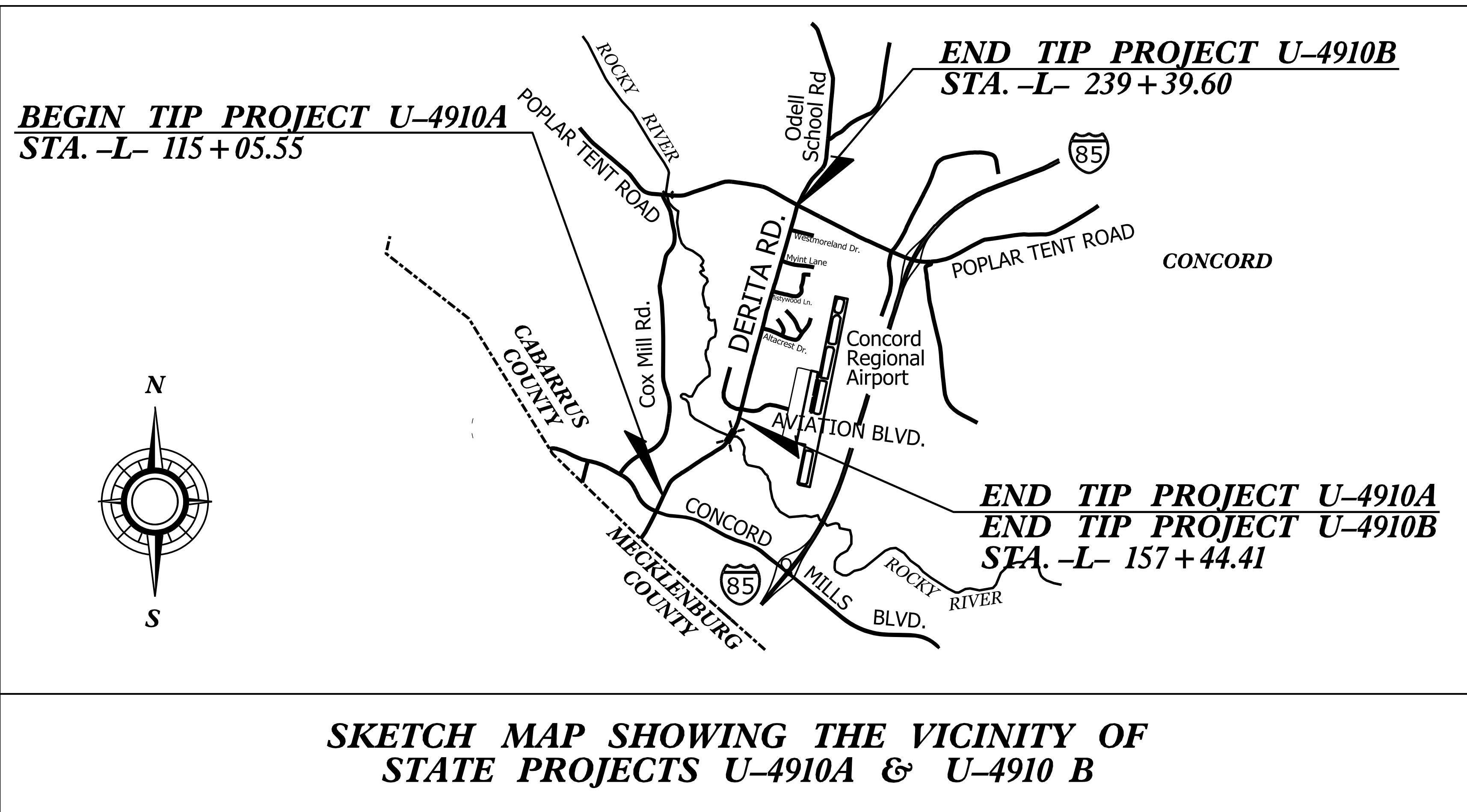
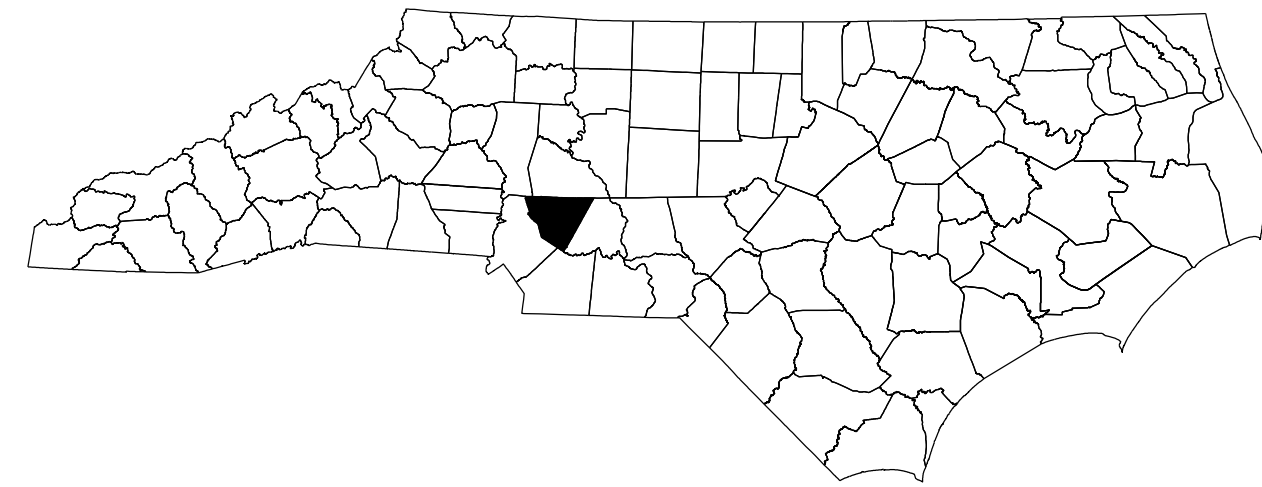
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

CABARRUS COUNTY



**SKETCH MAP SHOWING THE VICINITY OF
STATE PROJECTS U-4910A & U-4910 B**

INDEX OF SHEETS

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9/22/16 DATE SUBMITTED

SUBMITTAL:

- STAGING CONCEPT
- MIDPOINT
- PRE-FINAL
- FINAL

APPROVED: Jeff Koontz
DATE: 9/27/2016

SEAL



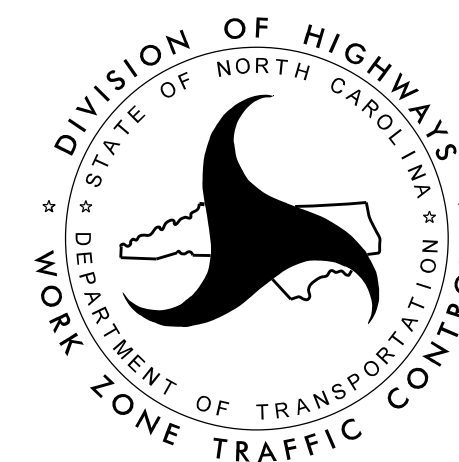
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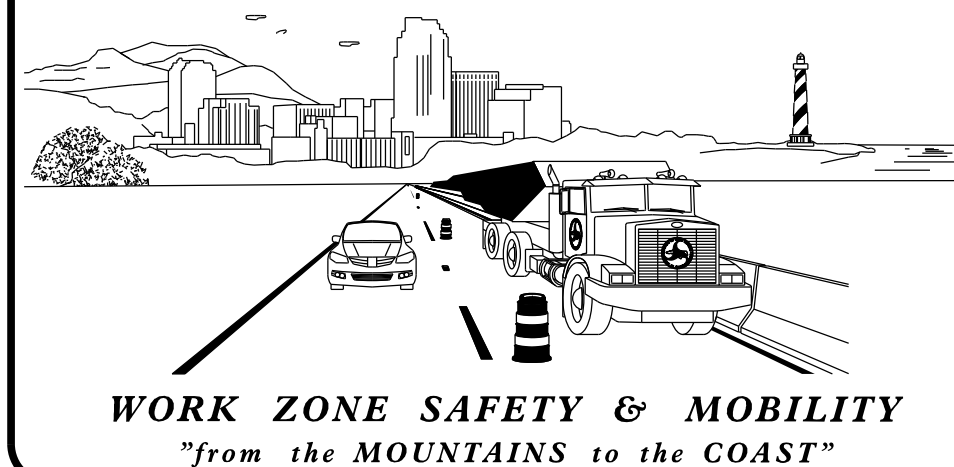
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TIP PROJECT: U-4910A & U-4910B

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

LEGEND

GENERAL

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

WORK AREA

REMOVAL

TEMPORARY PAVEMENT

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TEMPORARY PAVEMENT MARKING

PAINT (4")

- PH YELLOW SINGLE CENTER (2X)
- PI YELLOW DOUBLE CENTER (2X)
- PA WHITE EDGE LINE (2X)
- PC WHITE SKIP (10')(2X)
- PD WHITE MINI SKIP (2X)
- PE WHITE SOLID LANE LINE (2X)

PAINT (8")

- PP YELLOW DIAGONALS (2X)
- PQ WHITE CROSSWALK LINE (2X)
- PO WHITE DIAGONALS (2X)

PAINT (24")

- P2 WHITE STOP BAR (2X)

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

PAVEMENT MARKING SYMBOLS (PAINT)

- QA LEFT TURN ARROW (2X)
- QB RIGHT TURN ARROW (2X)
- QC STRAIGHT ARROW (2X)
- QE STRAIGHT/RIGHT TURN ARROW (2X)
- QI ALPHANUMERIC CHARACTER (2X)
- QP MERGE ARROW (2X)
- QT U TURN ARROW (2X)

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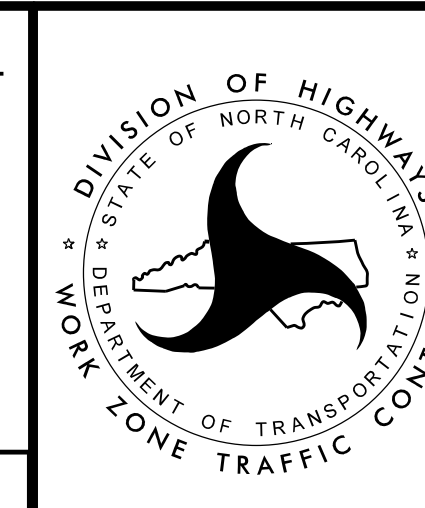
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DATE: _____

SEAL



STANDARD DRAWINGS
AND LEGEND

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GENERAL NOTES

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

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

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTION
DERITA RD. POPLAR TENT RD. CONCORD MILLS BLVD. THUNDER ROAD NW AVIATION BLVD.	MONDAY THROUGH FRIDAY, 7:00 AM-9:00 AM & 4:00 PM-6:00 PM

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

ROAD NAME
DERITA RD. POPLAR TENT RD. AVIATION BLVD.

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 P.M. TUESDAY TO 6:00 A.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

B) DO NOT CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS: INGRESS AND EGRESS FROM RAMPS SHALL NOT BE ALLOWED:

ROAD NAME	DAY AND TIME RESTRICTION
DERITA RD. POPLAR TENT RD. CONCORD MILLS BLVD. THUNDER ROAD NW	MONDAY THROUGH FRIDAY, 7:00 AM-9:00 AM & 4:00 PM-6:00 PM

C) 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

- D) 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.
- E) 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.
- F) 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.
- G) 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.

- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY OR RAMP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- I) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING AS NECESSARY AND/OR AS DIRECTED BY THE ENGINEER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- J) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- K) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 350 FT IN ADVANCE AND A MINIMUM OF ONCE EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- M) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- N) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- O) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 350 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- P) 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 RADIUS, 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.
- Q) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- R) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED

- T) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- U) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- V) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- W) TRACE THE PROPOSED MONOLITHIC ISLANDS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION.

ROAD CLOSURE

- X) 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.
- Y) 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.

TRAFFIC BARRIER

- Z) 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.

- AA) 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.
- BB) 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

MISCELLANEOUS

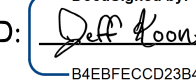
- CC) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- DD) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.
- EE) 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.).
- FF) 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) 700 AND 350 RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

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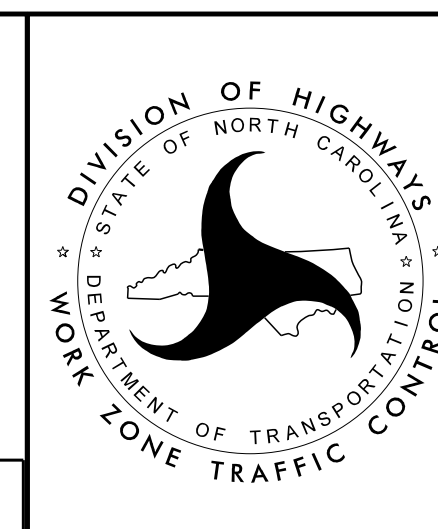
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PROJECT DESIGN ENGINEER

APPROVED:  DocuSigned by: Jeff A. Koontz

DATE: 12/16/2016

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GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
U-4910A	TMP-2

PROJECT PHASING

MAINTAIN THE INGRESS AND EGRESS TO ALL DRIVEWAYS ALONG DERITA ROAD AND ALL SIDE ROADS AT ALL TIMES. MAINTAIN CLOSE COORDINATION WITH ANY/ALL UTILITY CONTRACTORS ON SITE IF PRESENT. DO NOT OVERLAP OR PLACE CONFLICTING TRAFFIC CONTROL DEVICES IF ANY UTILITY CONSTRUCTION IS ONGOING. COORDINATION SHALL BE CONTINUOUS THROUGHOUT THE ENTIRE PROJECT CONTRACT.

MAINTAIN ALL EXISTING SIGNAL OPERATIONS THROUGHOUT THE PROJECT.

PHASE I

STEP 1: PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, INSTALL WORK ZONE ADVANCED WARNING SIGNS AS SHOWN IN RSD 1101.01. THIS INCLUDES MAIN LINE AND ALL SIDE ROADS.

STEP 2: USING ROADWAY STANDARD DRAWING 1101.02 SHEETS 1 & 2 OF 15 AS NEEDED, PLACE DRUMS AND BARRICADES ALONG DERITA ROAD WHILE MAINTAINING TRAFFIC ON EXISTING DERITA ROAD AND CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL PAVEMENT LAYER: (SEE TMP-3 THRU TMP-16)

PROPOSED LEFT SIDE OF DERITA ROAD, INCLUDING STAGE I OF BRIDGE OVER ROCKY RIVER
FROM -L- STA. 138+02 TO -Y5A- STA. 12+45 LEFT

PROPOSED RIGHT SIDE OF DERITA ROAD
FROM -L- STA. 156+19 TO -L- STA. 177+00

PROPOSED LEFT SIDE OF DERITA ROAD
FROM -L- STA. 186+00 TO -L- STA. 239+42

STEP 3: EXTEND THE DOWNSTREAM SECTIONS OF THE 3@73" X 55" CSPA AT STA. 124+11. USING ROADWAY STANDARD DRAWING 1101.02 SHEETS 1 & 2 OF 15, CONSTRUCT THE FOLLOWING TEMPORARY PAVEMENT WIDENING TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT. (SEE TMP-3, TMP-4, TMP-6 THRU TMP-8; TMP-10, TMP-12 & TMP-13)

-L- STA. 113+51 TO -L- STA. 117+34, MEDIAN
-DET3- STA. 14+18 TO -DET3- STA. 35+36
-L- STA. 152+00 TO -L- STA. 157+44, MEDIAN
-L- STA. 155+00 TO -L- STA. 156+19, RIGHT SIDE
-L- STA. 159+16 TO -L- STA. 162+15, MEDIAN
-L- STA. 177+00 TO -L- STA. 181+31, RIGHT SIDE
-L- STA. 181+58 TO -L- STA. 186+00, LEFT SIDE

STEP 4: USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 & 2 OF 15, CONSTRUCT THE FOLLOWING -Y- LINES UP TO BUT NOT INCLUDING THE FINAL PAVEMENT LAYER. THIS WORK IS TO BE DONE UNDER TRAFFIC WHILE MAINTAINING TRAFFIC ON THE SIDE ROAD: (SEE TMP-4, TMP-10, & TMP-11)

WESTWINDS BLVD. -Y5A- STA. 10+49 TO STA. 12+45
AVIATION BLVD -Y5- STA. 11+00 TO STA. 14+84
CHILDRENS ACADEMY -DR2- STA. 9+95 TO STA. 11+38

STEP 5: USING RDWY STD. 1101.02 SHEET 1 OF 15, CONSTRUCT THE FOLLOWING PAVEMENT WEDGING UP TO BUT NOT INCLUDING THE FINAL PAVEMENT LAYER. SEE TMP-4, TMP-5, TMP-10 & TMP-15:

-L- STA. 151+68 TO -L- STA. 159+16, LEFT SIDE
-L- STA. 220+11 TO -L- STA. 220+32, LEFT SIDE

STEP 6: WORKING AWAY FROM TRAFFIC OR USING ROADWAY STANDARD DRAWINGS 1101.02, SHEETS 1 & 2 OF 15 FOR TEMPORARY LANE CLOSURES, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMP. RAISED) USING ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, 1205.09, 1205.12, 1250.01 AND 1251.01 FOR TWO-LANE, TWO WAY TRAFFIC ACCORDING TO THE FOLLOWING: (SEE TMP-20 THRU TMP-30)

-DET3- STA. 14+08+/- TO -DET3- STA. 29+79
-DET3- STA. 31+08 TO -DET3- STA. 35+36
-L- STA. 138+02+/- TO -L- STA. 157+44+/-
-L- STA. 161+00+/- TO -DET2- STA. 19+15+/-
-DET2- STA. 21+90+/- TO -L- STA. 225+37+/-

AND USING ROADWAY STANDARD DRAWING 1101.03, SHEET 8 OF 9 AND FLAGGERS OR 1101.02 SHEETS 1 OR 2 OF 15, INSTALL AND COVER THE TEMPORARY SIGNALS AT -Y3- THUNDER ROAD, AND -Y5- AVIATION BLVD.

PHASE II

STEP 1: USING ROADWAY STANDARD DRAWINGS 1101.02, SHEETS 1 & 2 OF 15 FOR TEMPORARY LANE CLOSURES AND 1101.03, SHEET 8 OF 9 FOR TEMPORARY ROAD CLOSURE, PLACE REMAINING TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMP. RAISED) USING ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, 1205.09, 1205.12, 1250.01 AND 1251.01 FOR TWO-LANE, TWO WAY TRAFFIC ACCORDING TO THE FOLLOWING: (SEE TMP-20 THRU TMP-30)

-L- STA. 111+11 TO -DET3- STA. 14+08+/-
-DET3- STA. 29+79 TO -DET3- STA. 35+36+/-
-L- STA. 157+44+/- TO -L- STA. 161+00+/-
-Y5- STA. 11+00 TO -Y5A- STA. 14+49
-Y5A- STA. 10+23 TO -Y5A- STA. 12+45
-DET2- STA. 19+15+/- TO -DET2- STA. 21+90+/-
-L- STA. 225+37+/- TO -L- STA. 228+40+/-

UNCOVER SIGNALS AND SHIFT TRAFFIC ON DERITA ROAD INTO THE TEMPORARY TRAFFIC PATTERN.

USING ROADWAY STANDARD DRAWING 1101.02 SHEETS 1 & 2 OF 15 AS NEEDED, PLACE THE REMAINING TRAFFIC CONTROL DEVICES ALONG THE PROJECT AS SHOWN ON SHEETS TMP-20 THRU TMP-30.

STEP 2: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 15 PLACE PORTABLE CONCRETE BARRIER ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-20 THRU TMP-24)

-DET3- STA. 14+96 LT TO -L- STA. 133+35+/- LT
-DET3- STA. 37+11 LT TO -DET3- STA. 49+86 LT

PLACE BARRICADE ON EDENBURY DRIVE AT BARROWCLIFFE DRIVE TO CLOSE EDENBERRY DRIVE TO THRU TRAFFIC. PLACE BARRICADE ON JETSTREAM BLVD AT THE ROUSH RACING DRIVEWAY TO CLOSE JETSTREAM BLVD TO THRU TRAFFIC.

STEP 3: CONSTRUCT THE UPSTREAM SECTIONS OF THE 3 @ 8' X 10' RCBC AT STA. 124+11 (SEE STAGE 1 OF THE CULVERT CONSTRUCTION SEQUENCE ON TMP-02B). USING ROADWAY STANDARD DRAWING 1101.02, SHEETS 1 & 2 OF 15, CONSTRUCT PROPOSED -L- DERITA ROAD, UP TO BUT NOT INCLUDING THE FINAL PAVEMENT LAYER AND STAGE 2 OF THE BRIDGE OVER THE ROCKY RIVER ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-17 THRU TMP-30)

-L- STA. 117+15 TO -L- STA. 138+02, LEFT SIDE
-L- STA. 140+60 TO -L- STA. 155+76, RIGTH SIDE
-L- STA. 158+93 TO -L- STA. 184+50, LEFT SIDE
-L- STA. 183+90 TO -L- STA. 228+40, RIGHT SIDE
-L- STA. 228+79 TO -L- STA. 231+04, RIGHT SIDE

CONSTRUCT THE FOLLOWING -Y- LINE SIDE ROADS WITH ROAD CLOSURES ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-17, TMP-21 AND TMP-23)

EDENBURY DRIVE -Y2- STA. 10+49 TO -Y2- STA. 12+90
JETSTREAM BLVD -Y4- STA. 10+00 TO -Y4- STA. 12+95

USE ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 15 FOR ALTERNATING LANE CLOSURES TO CONSTRUCT THE FOLLOWING -Y- LINE SIDE ROADS UNDER TRAFFIC ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-18 THRU TMP-19 AND TMP-27 THRU TMP-30)

ALTACREST DR. -Y7- STA. 10+75 TO -Y7- STA. 11+90
MISTYWOOD LN. -Y8- STA. 7+75 TO -Y8- STA. 11+97
MYINT LN. -Y9- STA. 10+88 TO -Y9- STA. 12+48
WESTMORELAND DR. -Y10- STA. 11+05 TO -Y10- STA. 12+48

STEP 4: USING ROADWAY STANDARD DRAWING 1101.02 SHEET 2 OF 15, CONSTRUCT THE FOLLOWING PAVEMENT WEDGING UP TO BUT NOT INCLUDING THE FINAL PAVEMENT LAYER ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-19, TMP-29, & TMP-30:

-STA. 221+15 TO STA. 239+39+/- LEFT AND RIGHT SIDES

STEP 5: WORKING AWAY FROM TRAFFIC OR USING ROADWAY STANDARD DRAWINGS 1101.02, SHEETS 1 & 2 OF 15 FOR TEMPORARY LANE CLOSURES, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMP. RAISED) USING ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, 1205.09, 1205.12, 1250.01 AND 1251.01 FOR TWO-LANE, TWO WAY TRAFFIC ACCORDING TO THE FOLLOWING: (SEE TMP-20 THRU TMP-30)

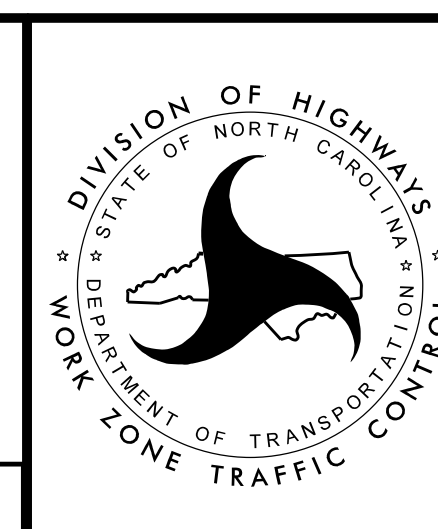
-DET3- STA. 12+29+/- TO -L- STA. 133+34, LT
-L- STA. 134+54+/- TO -L- STA. 137+54+/- LT
-L- STA. 159+38+/- TO -L- STA. 181+12+/- LT

AND USING ROADWAY STANDARD DRAWING 1101.03, SHEET 8 OF 9 AND FLAGGERS, INSTALL AND COVER THE TEMPORARY SIGNALS AT -Y3- THUNDER ROAD AND -Y5- AVIATION BLVD.

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APPROVED: *Jeff Koontz*
DATE: 9/27/2016
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PROJECT PHASING

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PROJ. REFERENCE NO.	SHEET NO.
U-4910A	TMP-2A

PROJECT PHASING

PHASE III

STEP 1: USING ROADWAY STANDARD DRAWINGS 1101.02, SHEETS 1 & 2 OF 15 FOR TEMPORARY LANE CLOSURES AND 1101.03, SHEET 8 OF 9 FOR TEMPORARY ROAD CLOSURE, PLACE REMAINING TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMP. RAISED) USING ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, 1205.09, 1205.12, 1250.01 AND 1251.01 FOR TWO-LANE, TWO WAY TRAFFIC ACCORDING TO THE FOLLOWING: (SEE TMP-34 THRU TMP-39)

- L- STA. 107+20 TO -DET3- STA. 12+29+/-
- Y3- STA. 12+34 TO -Y3- STA. 14+32+/-
- L- STA. 137+54 TO -L- STA. 140+60
- L- STA. 152+00+/- LT TO -L- STA. 159+38
- Y5A- STA. 10+23 TO -Y5A- STA. 10+57
- Y5- STA. 14+49 TO -Y5- STA. 15+03
- L- STA. 182+41+/- LT TO -L- STA. 188+43 LT

UNCOVER SIGNALS AND SHIFT TRAFFIC ON DERITA ROAD TO THE TEMPORARY TRAFFIC PATTERN.

STEP 2: USING ROADWAY STANDARD DRAWING 1101.02 SHEETS 1 & 2 OF 15 AS NEEDED, PLACE THE REMAINING TRAFFIC CONTROL DEVICES ALONG THE PROJECT AND RESET THE PORTABLE CONCRETE BARRIER ACCORDING TO THE FOLLOWING STATION: (SEE TMP-20 THRU TMP-30)

- L- STA. 117+00 TO -L- STA. 133+72, RT

STEP 3: USING ROADWAY STANDARD DRAWING 1205.01, 1205.02 AND 1205.04, PLACE TEMPORARY PAVEMENT MARKING (PAINT) FOR TWO-LANE, TWO-WAY TRAFFIC ON EDENBURY DRIVE ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-35)

- Y2- STA. 10+50+/- TO -Y2- STA. 12+90

REMOVE BARRICADES ON -Y2- EDENBURY DRIVE AT BARROWCLIFFE DRIVE AND OPEN EDENBURY DRIVE FULLY TO TRAFFIC.

STEP 4: CONSTRUCT THE DOWNSTREAM SECTIONS OF THE 3 @ 8'X10' RCBC AT STA. 124+11 (SEE STAGES 2 AND 3 OF THE CULVERT CONSTRUCTION SEQUENCE ON TMP-02B).

STEP 5: MAINTAIN TRAFFIC ON TEMPORARY TRAFFIC PATTERN AND WORKING AWAY FROM TRAFFIC OR USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 15, CONSTRUCT -L- DERITA ROAD UP TO BUT NOT INCLUDING THE FINAL PAVEMENT LAYER ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-34 THRU TMP-39)

- L- STA. 115+06 TO STA. 140+60, RIGHT SIDE
- L- STA. 159+38 TO STA. 161+40, MEDIAN
- L- STA. 177+00 TO STA. 181+52, RIGHT SIDE
- L- STA. 182+05 TO STA. 183+90, RIGHT SIDE

STEP 6: USING ROADWAY STANDARD DRAWING 1101.02 SHEETS 1 & 2 OF 15 FOR ALTERNATING LANE CLOSURES, CONSTRUCT THE FOLLOWING PAVEMENT WEDGING UP TO BUT NOT INCLUDING THE FINAL PAVEMENT LAYER ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-32, TMP-36 & TMP-39)

- L- STA. 177+97 TO STA. 183+90, RIGHT SIDE

AND CONSTRUCT PAVEMENT WEDGING OF THE -Y- LINE SIDE ROADS UP TO BUT NOT INCLUDING THE FINAL PAVEMENT LAYER. THIS WORK IS TO BE DONE UNDER TRAFFIC WHILE MAINTAINING TRAFFIC FLOW ON THE SIDE ROAD. (SEE TMP-31, TMP-32, TMP-36 & TMP-39):

- THUNDER DRIVE -Y3- STA. 12+34 TO -Y3- STA. 14+32+/-
- NORTHWINDS BLVD -Y6- STA. 10+95 TO -Y6- STA. 12+51+/-

STEP 7: WORKING AWAY FROM TRAFFIC OR USING ROADWAY STANDARD DRAWINGS 1101.02, SHEETS 1 & 2 OF 15 FOR TEMPORARY LANE CLOSURES, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) USING ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, 1205.09, 1205.12, 1250.01 AND 1251.01 IN THE FINAL PATTERN (SEE PAVEMENT MARKING PLANS) ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-43 THRU TMP-52)

- L- STA. 113+51+/- TO -L- STA. 133+39+/- NBL
- L- STA. 134+45+/- TO -L- STA. 158+09+/- NBL
- L- STA. 159+39+/- TO -L- STA. 181+12+/- NBL
- L- STA. 182+41+/- TO -L- STA. 231+04+/- NBL

AND USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 15 FOR TEMPORARY LANE CLOSURES, REMOVE THE PORTABLE CONCRETE BARRIER PLACED IN PHASE III, STEP 2.

STEP 8: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 & 3 AS NECESSARY FOR TEMPORARY LANE CLOSURES, INSTALL AND COVER TRAFFIC SIGNALS IN FINAL LOCATION.

STEP 3: USING ROADWAY STANDARD DRAWING 1101.02 SHEETS 1, 2, AND 3 OF 15, PLACE THE FINAL LAYER OF SURFACE COURSE, INCLUDING MAINLINE DERITA ROAD AND ALL SIDE ROADS. USING ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, 1205.09, 1205.12, 1250.01 AND 1251.01, PLACE FINAL PAVEMENT MARKINGS (THERMOPLASTIC) AND MARKERS (SNOWPLOWABLE) AND PERMANENT TRAFFIC SIGNAGE AS SHOWN IN THE PAVEMENT MARKING AND SIGNING PLANS, ACCORDING TO THE FOLLOWING STATION:

- L- STA. 109+50 TO -L- STA. 238+78 NBL & SBL
- Y2- STA. 10+50 TO -Y2- STA. 12+50
- Y3- STA. 12+34 TO -Y3- STA. 13+62+/-
- Y4- STA. 10+00 TO -Y4- STA. 12+95
- Y5A- STA. 10+49 TO -Y5A- STA. 12+45
- Y5- STA. 11+00 TO STA. 14+84
- Y6- STA. 10+95 TO -Y6- STA. 12+51
- Y7- STA. 10+75 TO -Y7- STA. 11+90
- Y8- STA. 7+75 TO -Y8- STA. 11+97
- Y9- STA. 10+88 TO -Y9- STA. 12+48
- Y10- STA. 11+05 TO -Y10- STA. 12+48

STEP 4: REMOVE ALL TRAFFIC CONTROL DEVICES AND WORK ZONE ADVANCED SIGNS AND OPEN THE PROJECT IN FINAL TRAFFIC PATTERN.

PHASE IV

STEP 1: UNCOVER SIGNALS AND USING FLAGGERS, SHIFT NORTHBOUND DERITA ROAD TRAFFIC TO THE OUTSIDE NORTHBOUND LANE AND PLACE THE REMAINING TRAFFIC CONTROL DEVICES (DRUMS) ALONG THE PROJECT AS SHOWN ON SHEETS TMP-40, TMP-43 & TMP-52.

USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 & 2 OF 15 FOR ALTERNATING LANE CLOSURE OR 1101.03 SHEET 8 OF 9 FOR TEMPORARY ROAD CLOSURE, PLACE TEMPORARY PAVEMENT MARKING (PAINT) IN THE FINAL PATTERN (SEE PAVEMENT MARKING PLANS) ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-43 THRU TMP-52)

- L- STA. 109+50+/- TO -L- STA. 113+51+/- NBL

MAINTAIN SOUTHBOUND TRAFFIC IN PHASE III PATTERN

STEP 2: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3 OF 15 AND WHILE MAINTAINING TRAFFIC IN TEMPORARY TRAFFIC PATTERN, CONSTRUCT ALL THE PROPOSED ISLANDS ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-43 THRU TMP-52)

- L- STA. 113+51 TO -L- STA. 115+06 MEDIAN
- L- STA. 115+06 TO -L- STA. 117+15 SBL MEDIAN
- L- STA. 129+79 TO -L- STA. 133+39 MEDIAN
- L- STA. 136+66 TO -L- STA. 144+31 MEDIAN
- L- STA. 152+00 TO -L- STA. 158+07 MEDIAN
- L- STA. 166+10 TO -L- STA. 166+75 MEDIAN
- Y6- STA. 11+31 TO -Y6- STA. 12+41 MEDIAN
- L- STA. 190+60 TO -L- STA. 191+81 MEDIAN
- L- STA. 204+46 TO -L- STA. 206+69 MEDIAN
- L- STA. 217+28 TO -L- STA. 227+89 MEDIAN
- L- STA. 229+26 TO -L- STA. 230+33 MEDIAN
- L- STA. 234+00 TO -L- STA. 238+78 MEDIAN

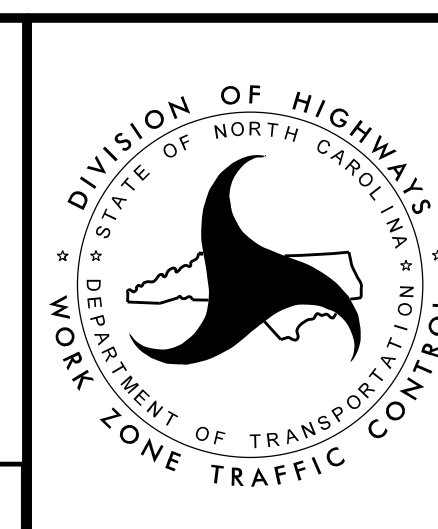
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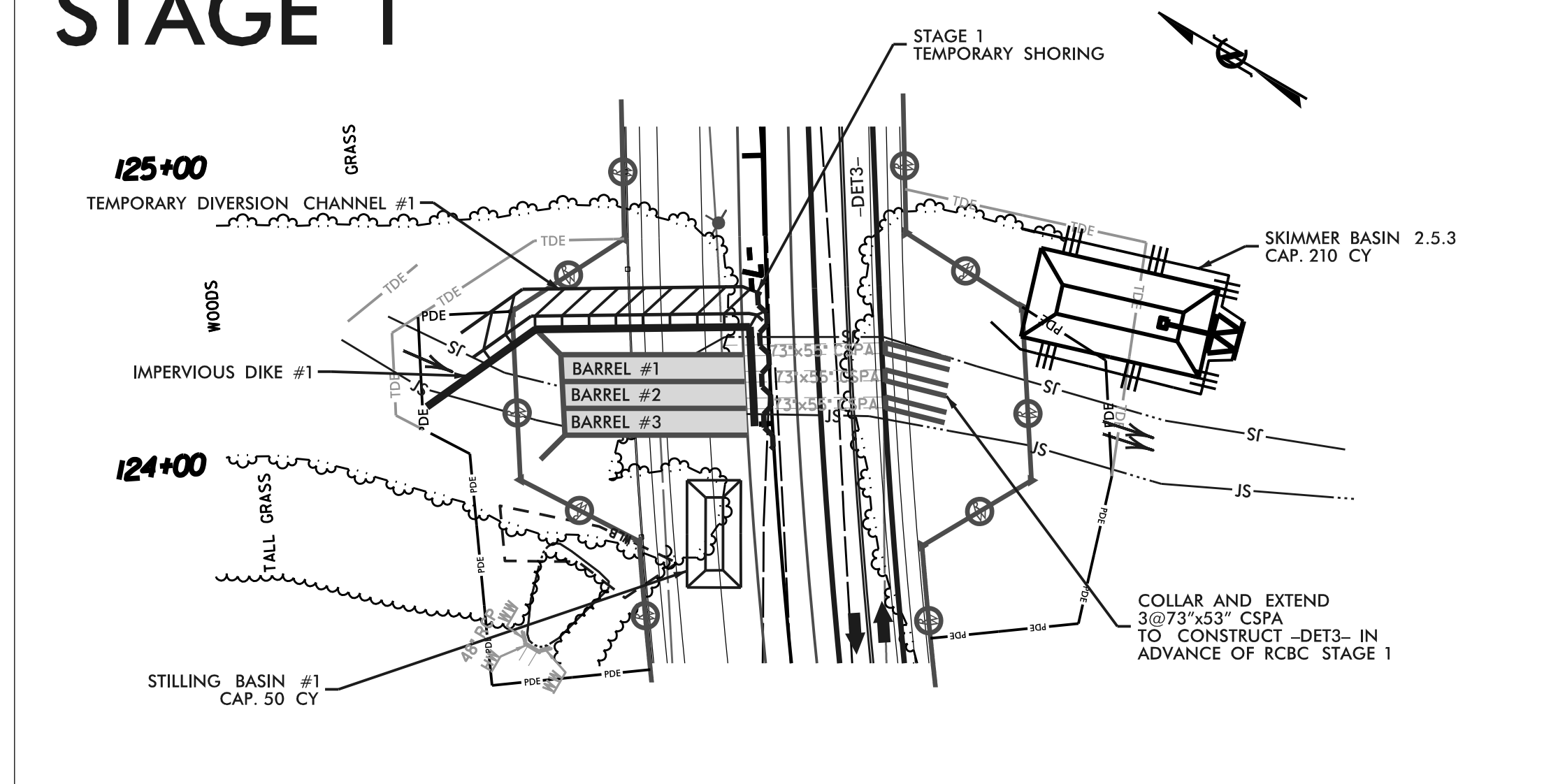
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PROJECT PHASING

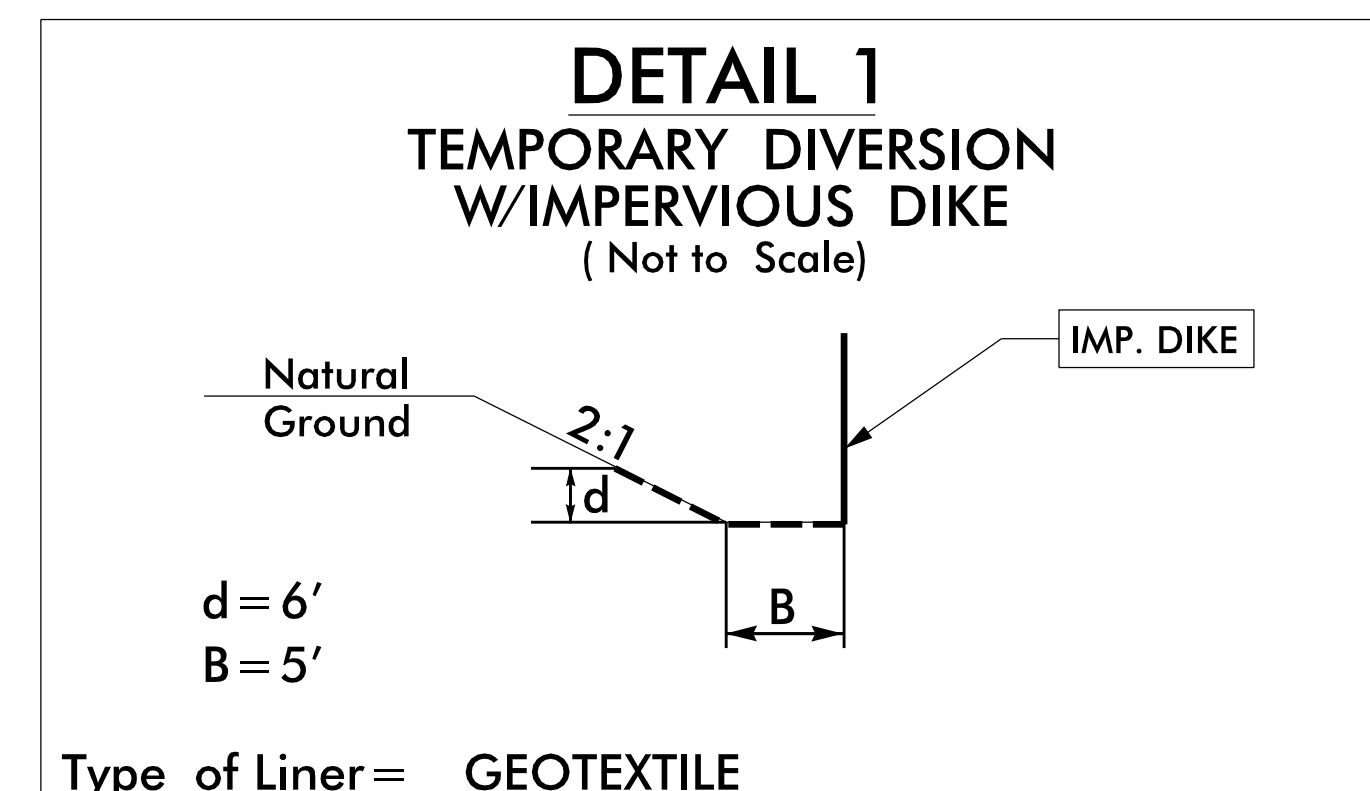
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STAGE 1

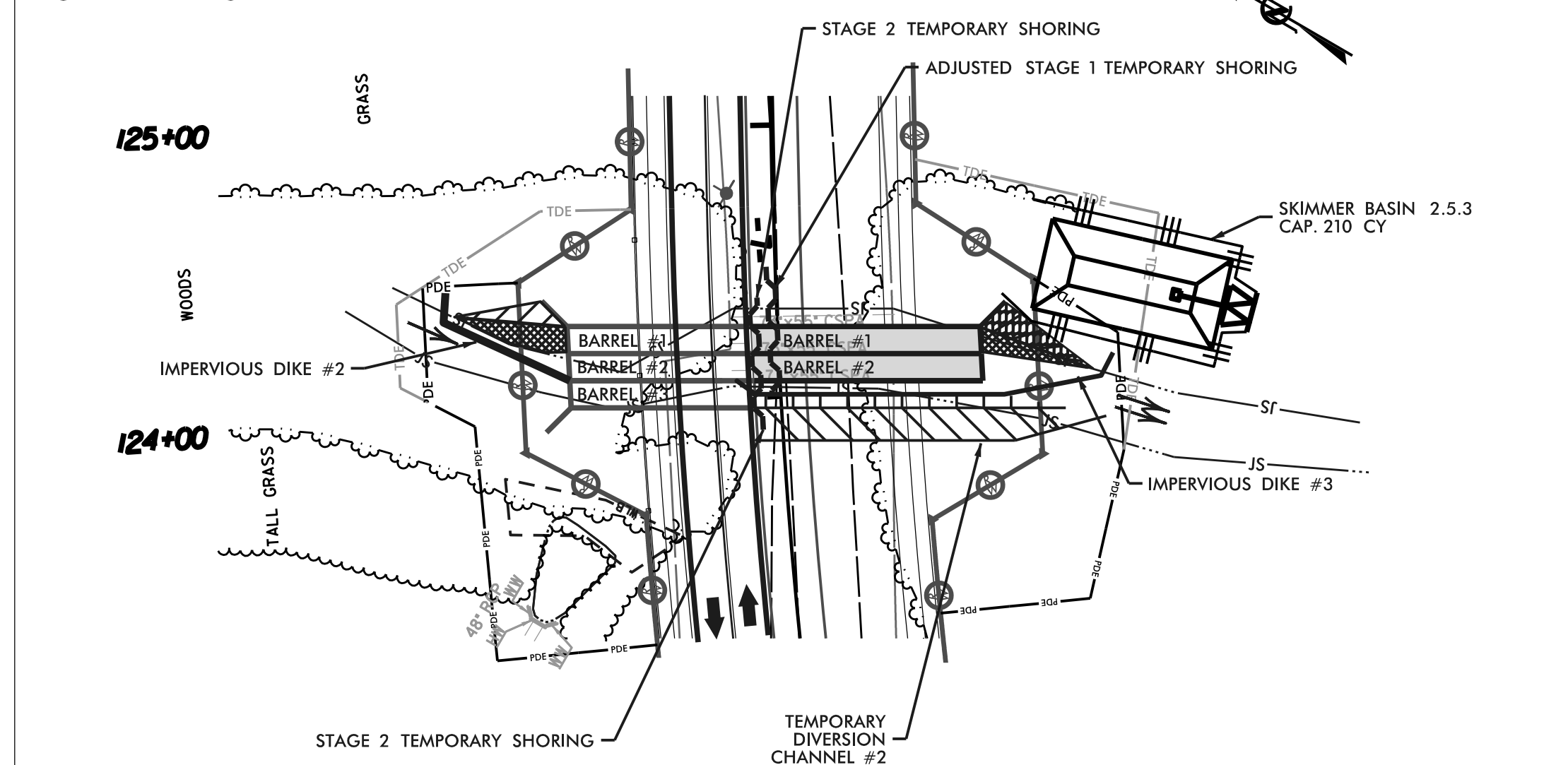


STAGE 1

1. EXTEND CSPAs, CONSTRUCT TEMP. ROADWAY (-DET3-) AND SHIFT TRAFFIC.
2. CONSTRUCT STILLING BASIN #1 (MIN. CAPACITY=50 CY)
3. CONSTRUCT TEMPORARY SHORING (TO RETAIN EXISTING FILL SLOPE) AND REMOVE APPROX. 15 FEET OF EXISTING CULVERTS #1, #2 AND #3. FLOW THRU 2 OF 3 EXISTING CULVERTS SHOULD BE MAINTAINED AT ALL TIMES.
4. CONSTRUCT IMPERVIOUS DIKE #1 AND TEMPORARY DIVERSION CHANNEL #1 (SEE DETAIL 1).
5. DEWATER CONSTRUCTION AREA.
6. CONSTRUCT 70 FEET OF BARREL #1, #2 AND #3.
7. CONSTRUCT SKIMMER BASIN 2.5.3 TO BE USED AS STILLING BASIN. (MIN. CAPACITY=30 CY)
8. REMOVE IMPERVIOUS DIKE #1 AND TEMPORARY DIVERSION CHANNEL.
9. REMOVE STILLING BASIN #1



STAGE 2



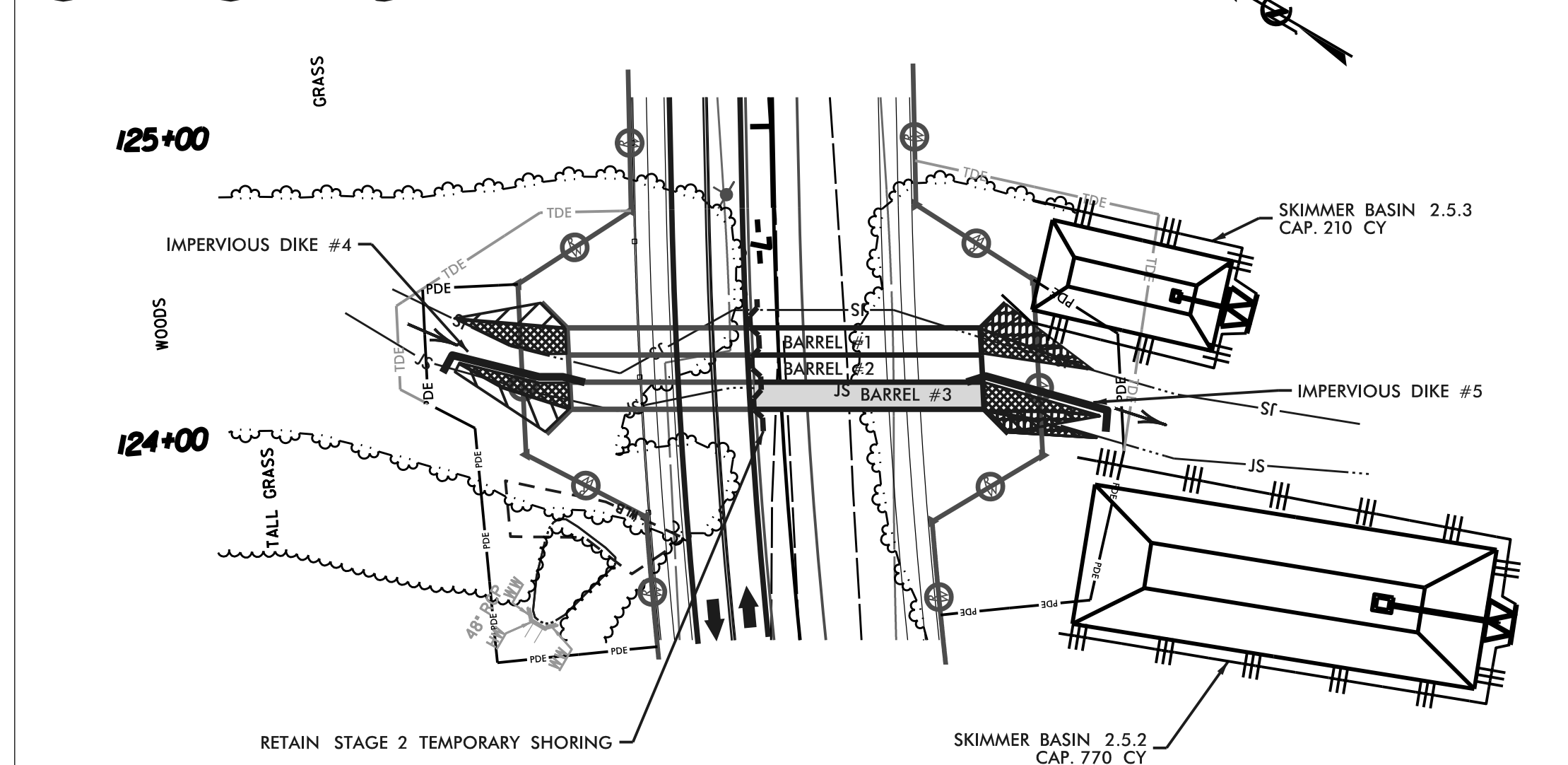
STAGE 2

1. INSTALL STAGE 2 TEMPORARY SHORING AND CONSTRUCT ROADWAY OVER STAGE 1 BARRELS #1, #2 AND #3.
2. REMOVE A PORTION OF STAGE 1 TEMPORARY SHORING AS NECESSARY TO CONSTRUCT TEMPORARY DIVERSION CHANNEL #2.
3. CONSTRUCT IMPERVIOUS DIKE #2 AND DIVERT FLOW THRU BARREL #3 TO TEMPORARY DIVERSION CHANNEL #2.
4. CONSTRUCT IMPERVIOUS DIKE #3.
5. DEWATER CONSTRUCTION AREA.
6. REMOVE REMAINDER OF EXISTING CULVERTS #1, #2 & #3 AND REMAINDER OF STAGE 1 TEMPORARY SHORING.
7. CONSTRUCT REMAINDER OF BARREL #1 AND #2 w/ WING WALL, FLOODPLAIN BENCH, SILLS, INLET AND OUTLET CHANNELS, AND OUTLET STREAM BANK STABILIZATION, AS SHOWN.
8. REMOVE IMPERVIOUS DIKE #3.
9. REMOVE IMPERVIOUS DIKE #2.

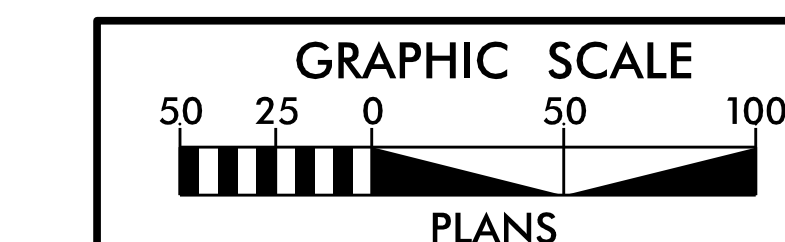
STAGE 3

1. CONSTRUCT SKIMMER BASIN 2.5.2 TO BE USED AS STILLING BASIN (MIN. CAPACITY=30 CY)
2. CONSTRUCT IMPERVIOUS DIKE #4 AND #5, DIVERTING FLOW TO BARRELS #1 & #2.
3. DEWATER CONSTRUCTION AREA.
4. CONSTRUCT REMAINDER OF BARREL #3 w/WING WALLS, FLOODPLAIN BENCH, SILLS, INLET AND OUTLET CHANNELS, AND OUTLET STREAM BANK STABILIZATION, AS SHOWN.
5. REMOVE STAGE 2 TEMPORARY SHORING.
6. REMOVE IMPERVIOUS DIKE #5.
7. REMOVE IMPERVIOUS DIKE #4.
8. SKIMMER BASINS 2.5.2 AND 2.5.3 WILL BE RETAINED FOR THE LIFE OF THE EROSION CONTROL PROJECT AND NOT REMOVED AS PART OF CULVERT PHASING.
9. COMPLETE ROADWAY.

STAGE 3



U-4910
CABARRUS COUNTY
CONSTRUCTION SEQUENCE
FOR 3@10'x8' RCBC
STA. 124+11 -L-
UT TO ROCKY RIVER



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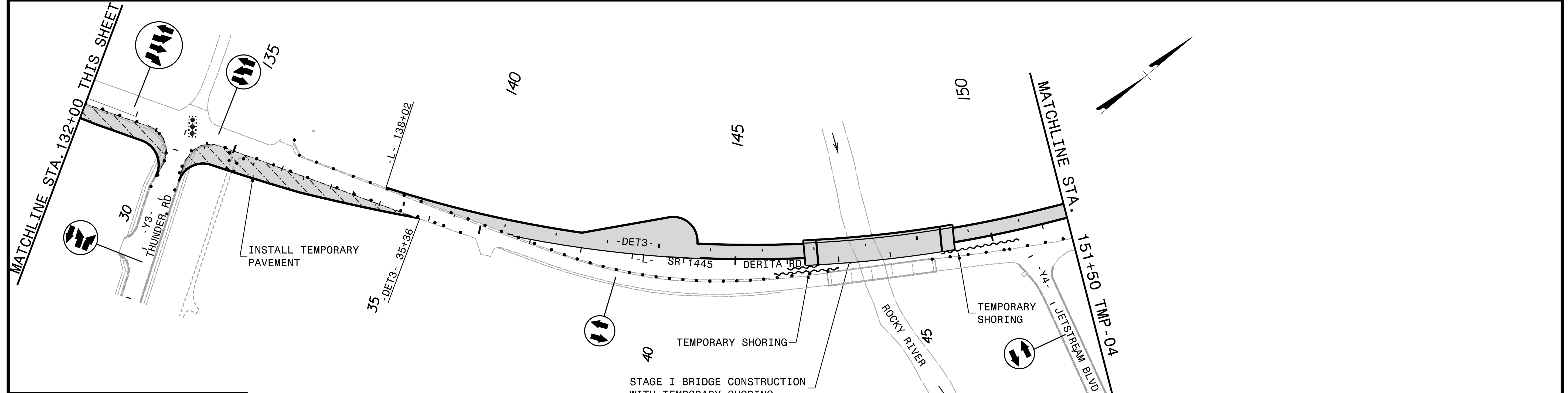
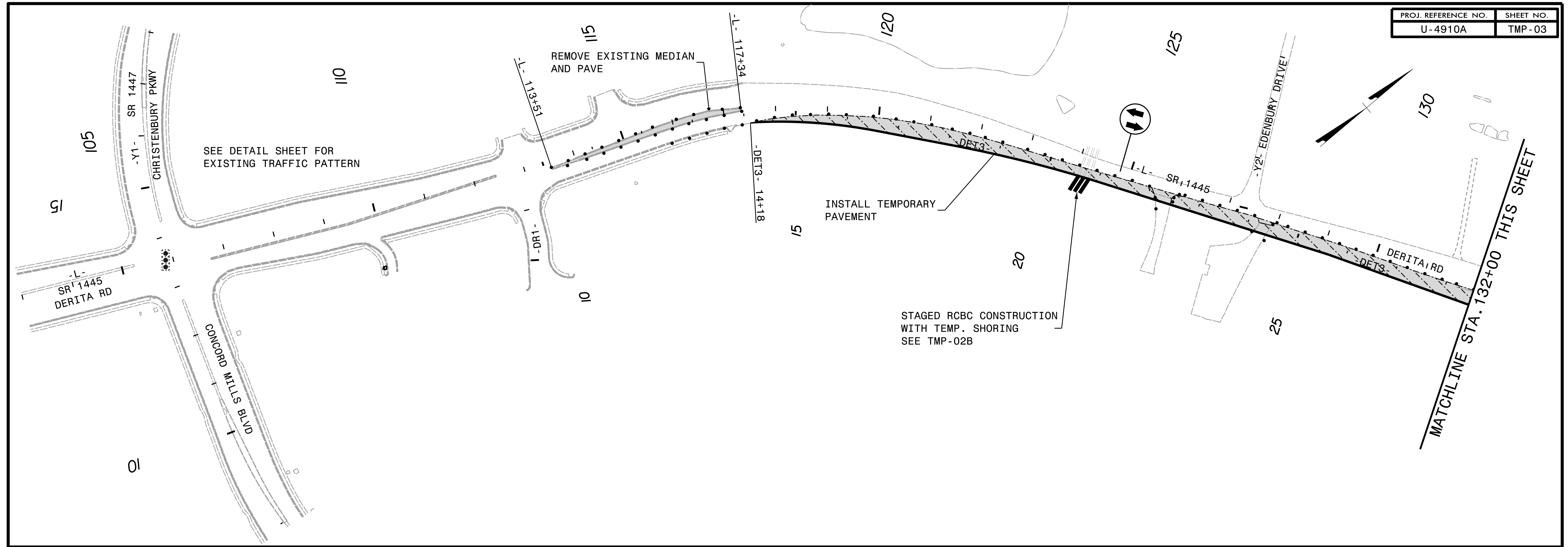
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701 Corporate Center Drive
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

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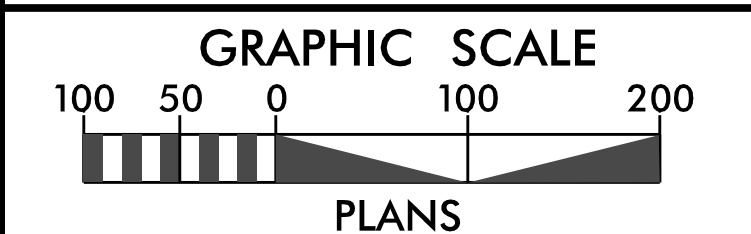
**CULVERT
CONSTRUCTION
SEQUENCE**

PROJ. REFERENCE NO.	SHEET NO.
U-4910A	TMP-03



LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS
- EXISTING
- PROPOSED
- TEMPORARY



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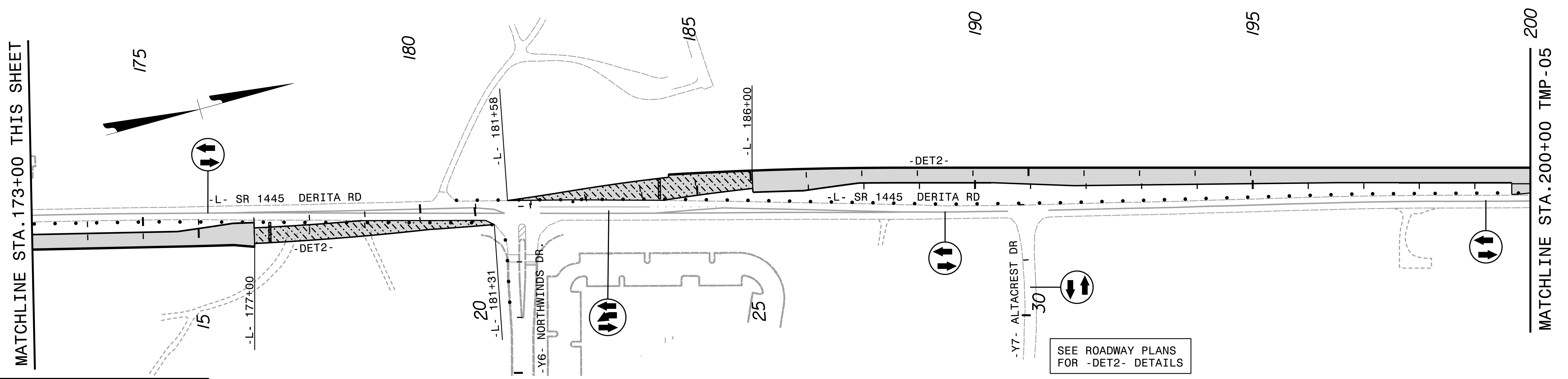
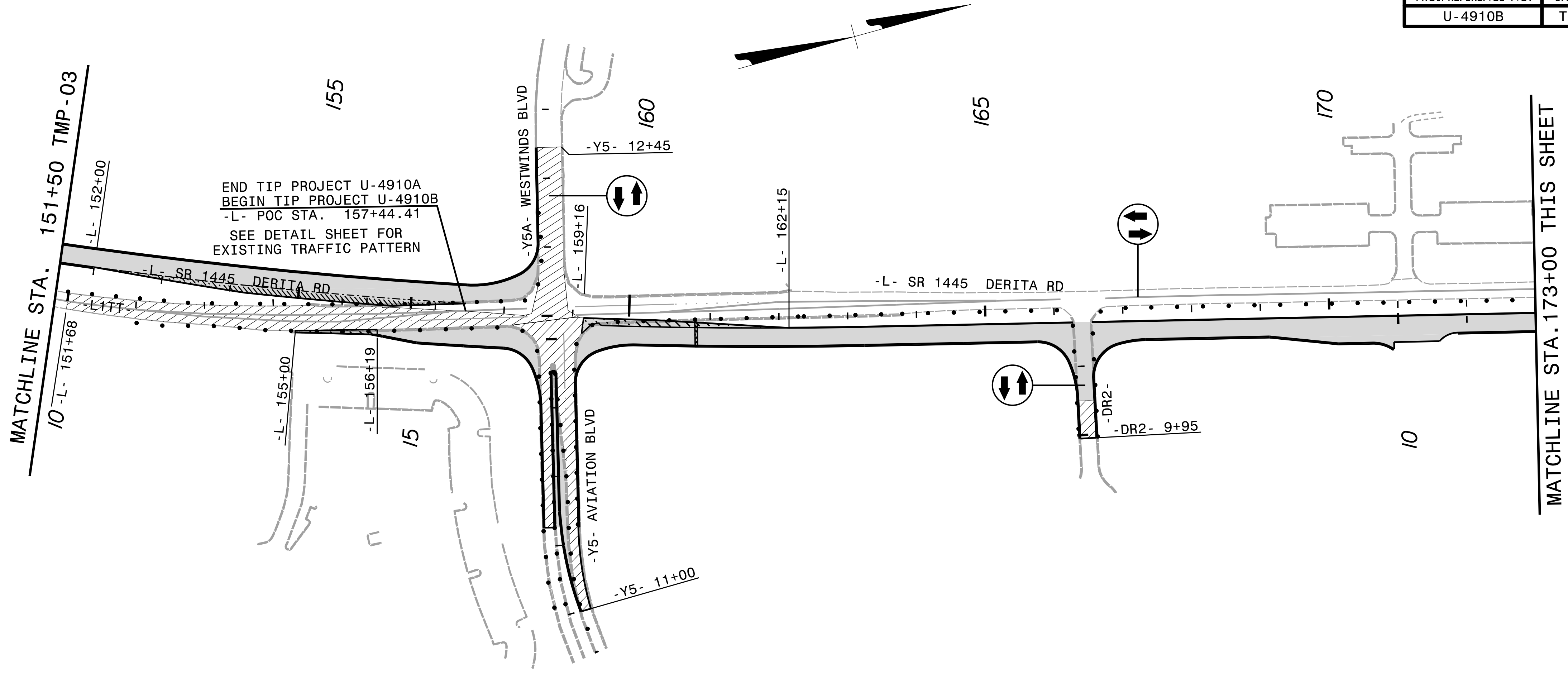
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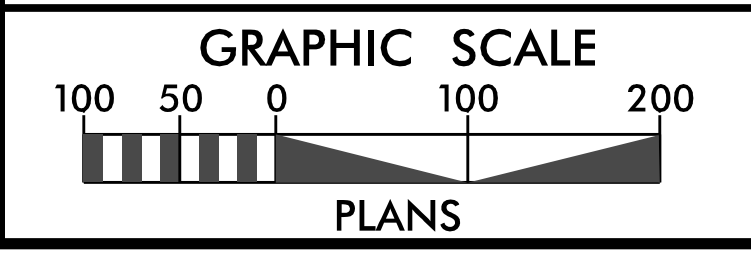
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OVERVIEW 1**

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LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS
- EXISTING
- PROPOSED
- TEMPORARY



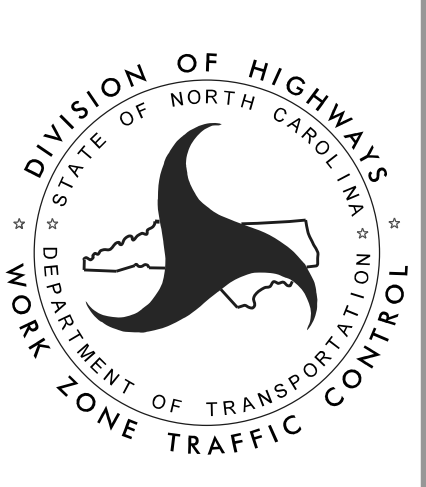
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 DATE: 9/27/2016

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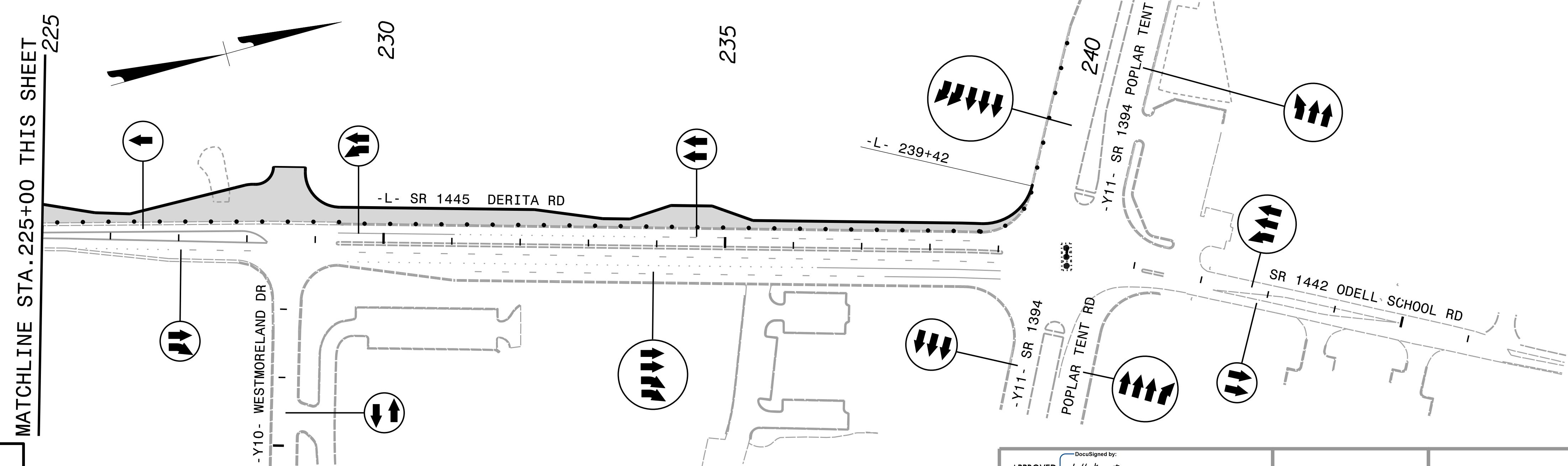
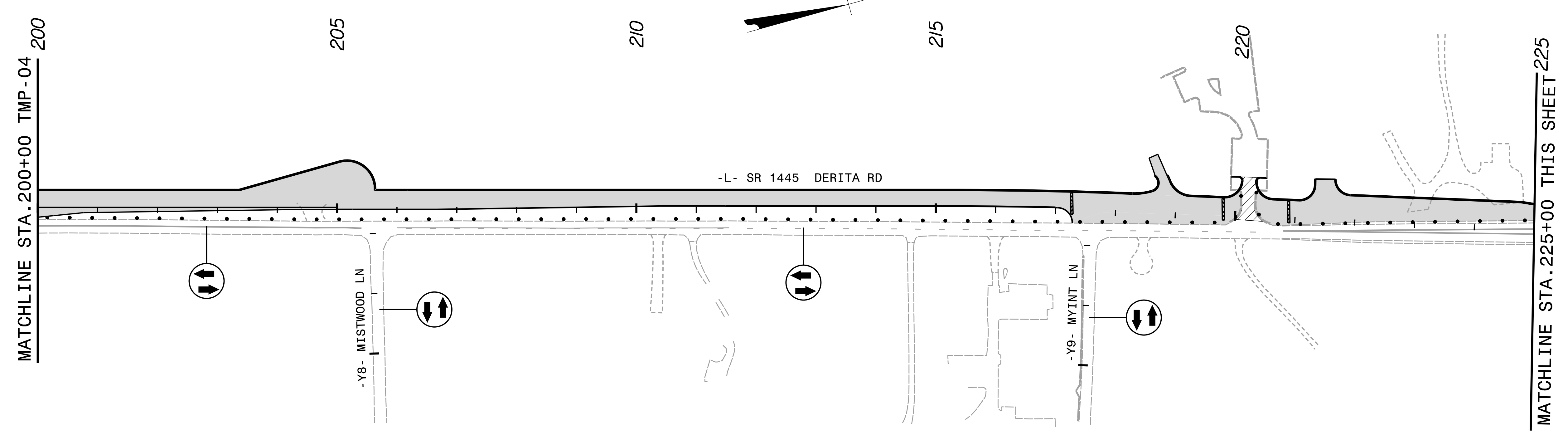
SEE ROADWAY PLANS FOR -DET2- DETAILS

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PHASE I OVERVIEW 2

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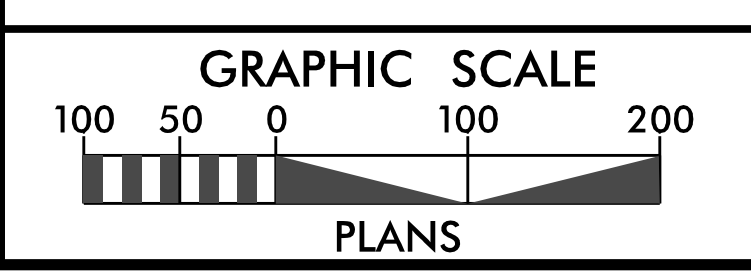


LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION

SIGNALS

-
-
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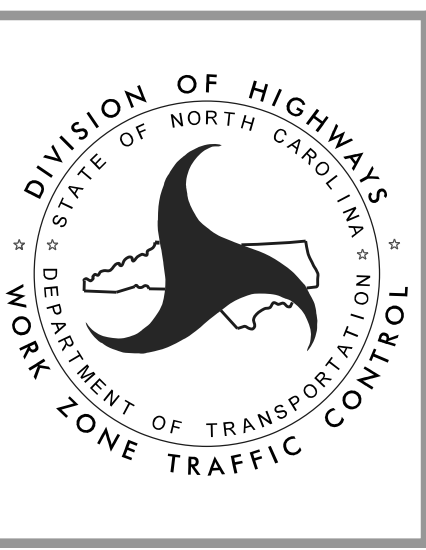
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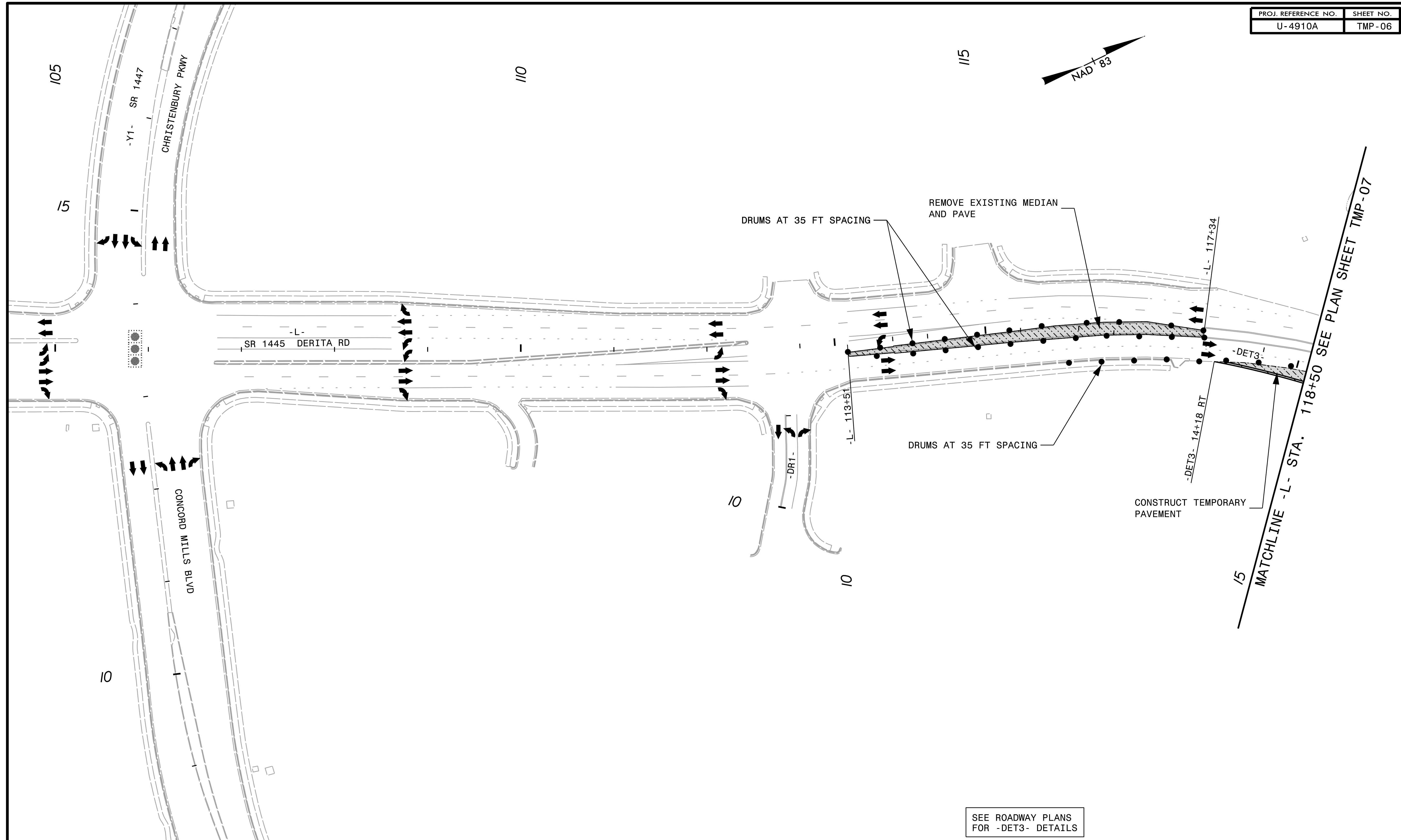
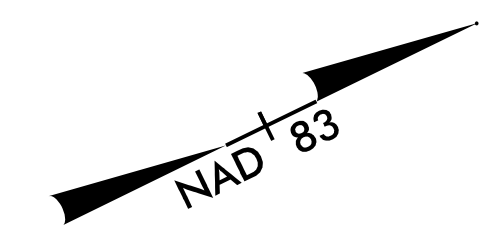
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 JEFFREY A. KOENIG

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**PHASE I
 OVERVIEW 3**

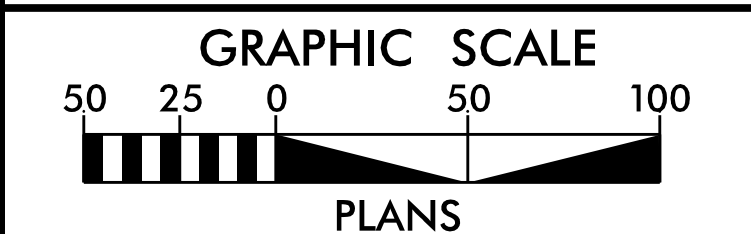
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 BALMUDA



3:42:43 PM
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 baclawm

LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



SEE ROADWAY PLANS
FOR -DET3- DETAILS

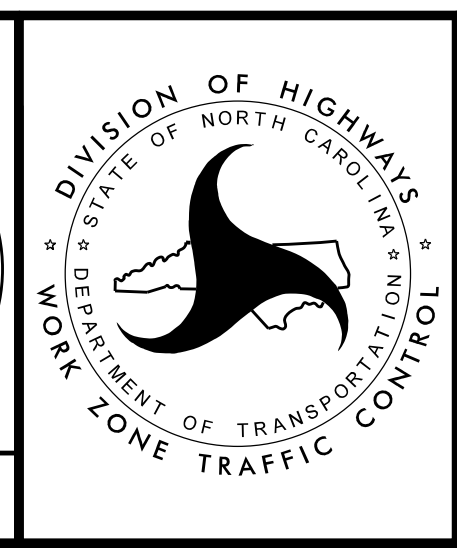
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 Suite 475 Raleigh, NC 27607
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DATE: 9/27/2016

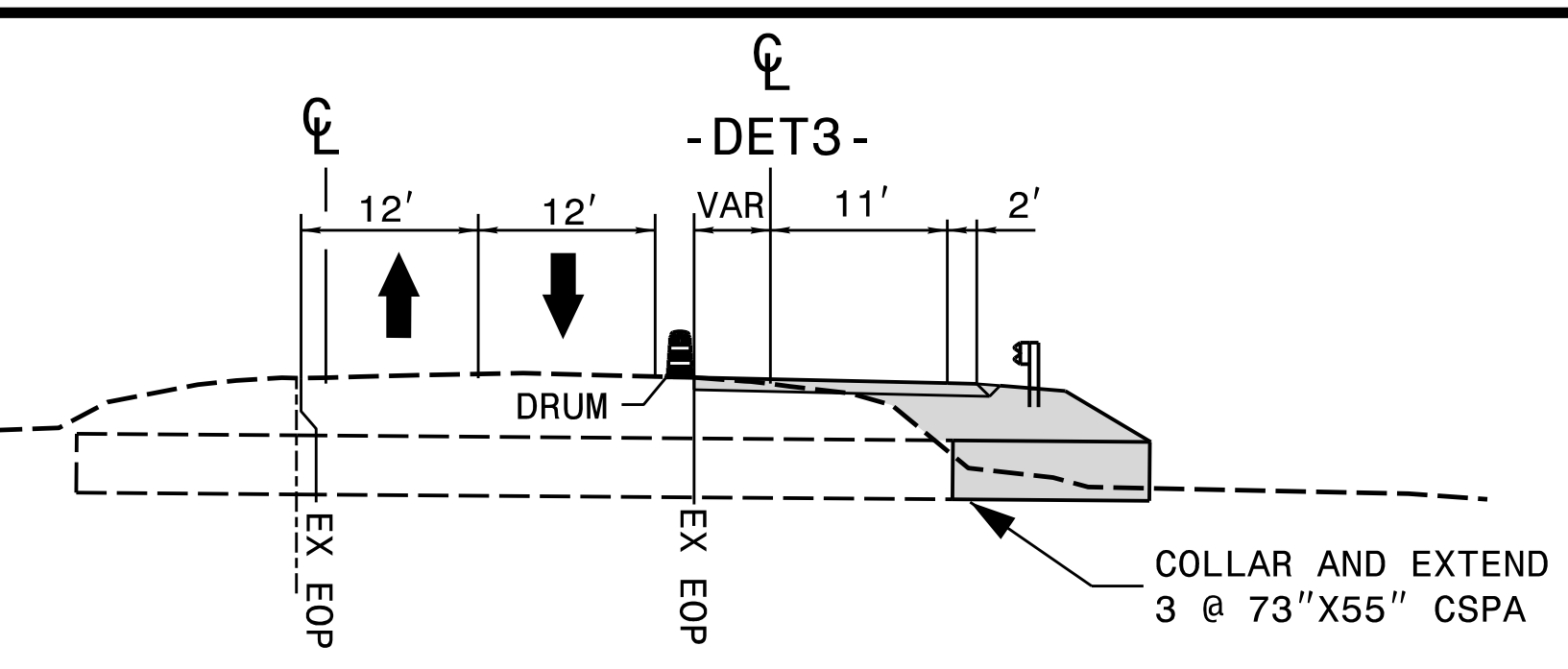
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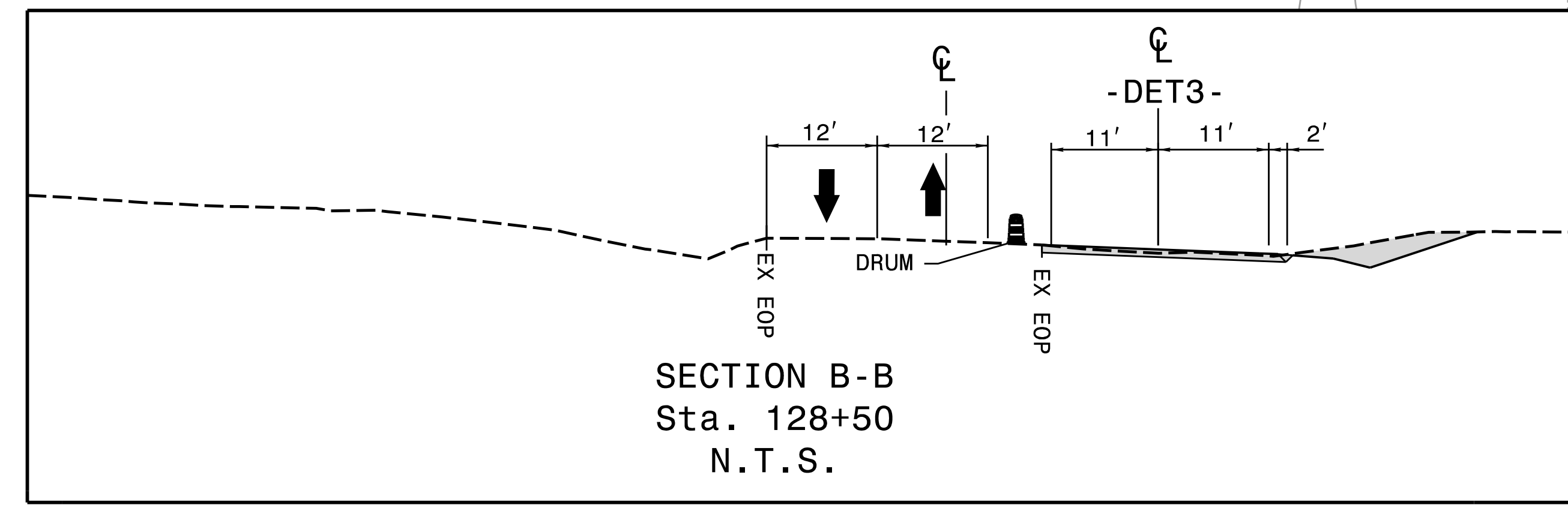
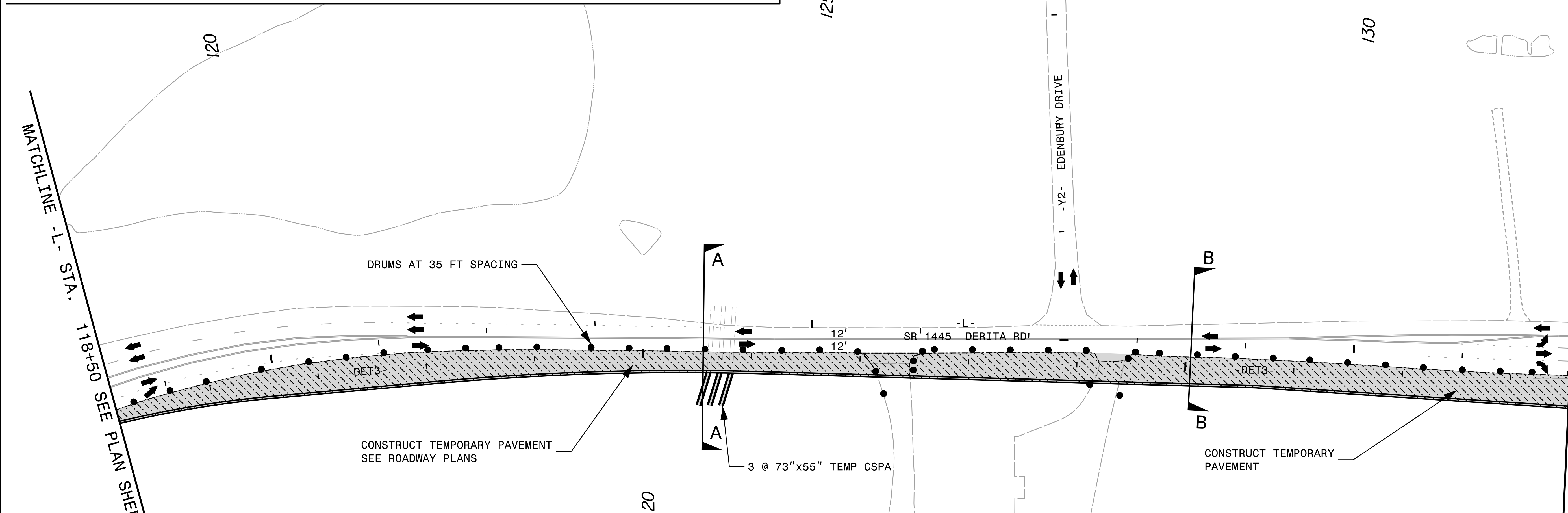


PHASE I - DETAIL 1

MATCHLINE -L- STA. 118+50 SEE PLAN SHEET TMP-07



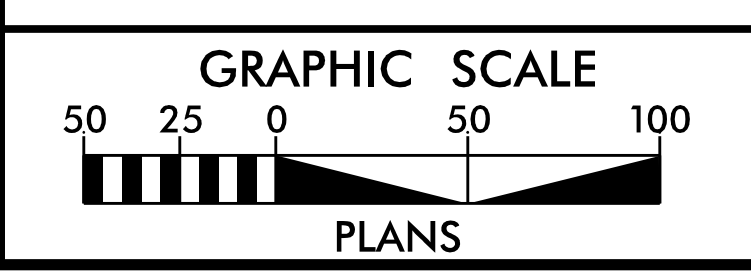
SECTION A-A
Sta. 124+00
N.T.S.
SEE TMP-02B FOR
CULVERT SEQUENCE DETAIL



SECTION B-B
Sta. 128+50
N.T.S.

LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS
- EXISTING
- PROPOSED
- TEMPORARY



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 SEAL 18122
 FREDERICK A. KOONZ

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

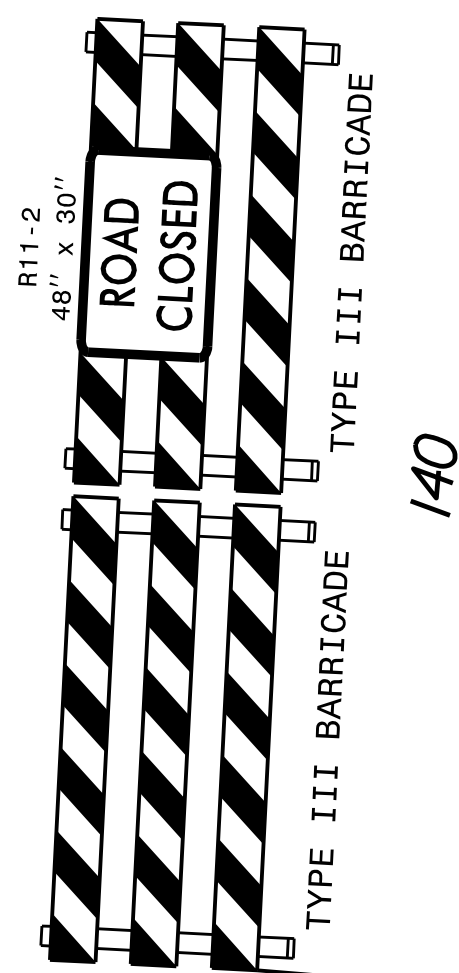
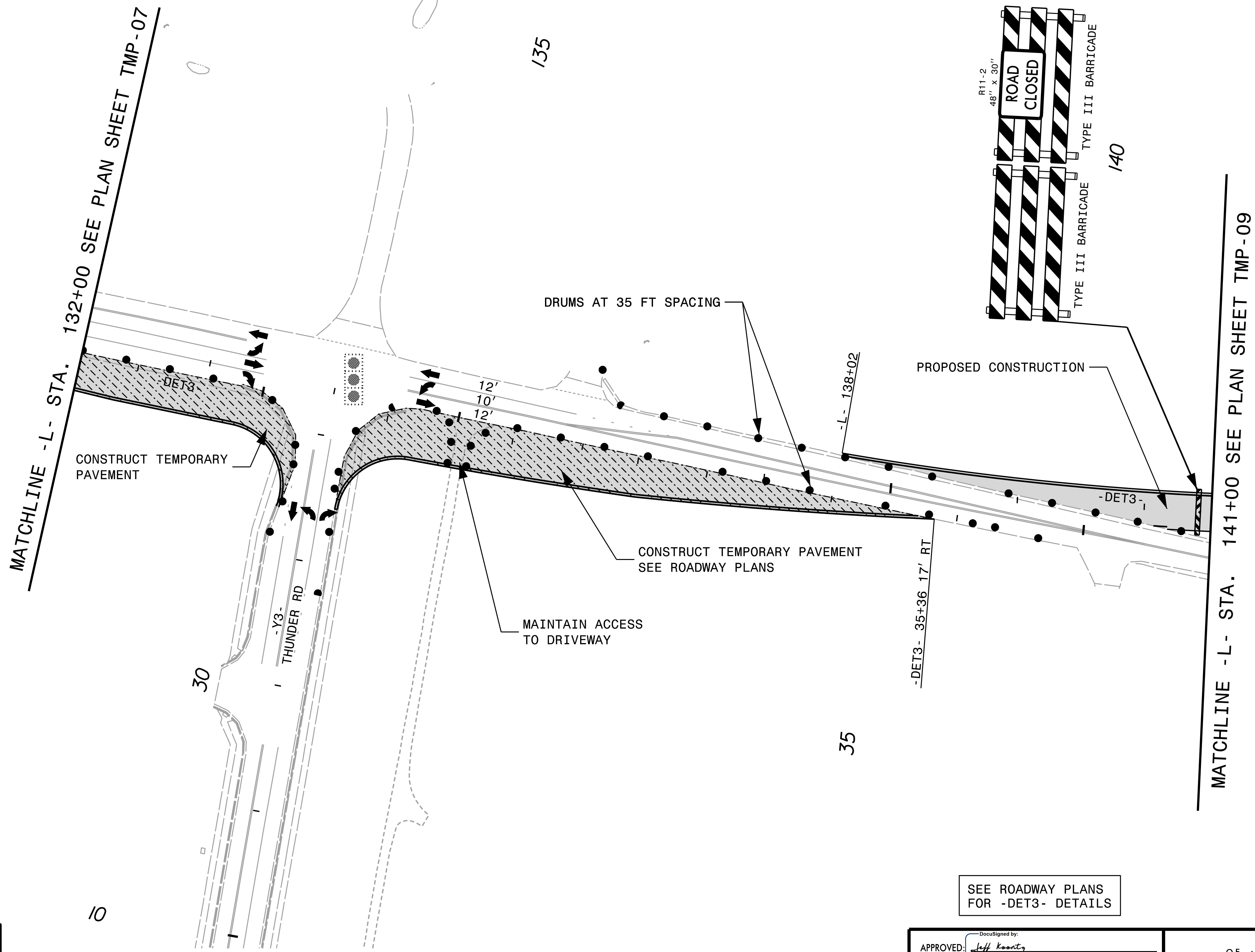
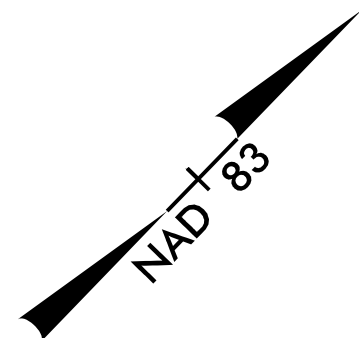
PHASE I - DETAIL 2

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3:06:18 PM
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 baicwlrn

MATCHLINE - L- STA. 118+50 SEE PLAN SHEET TMP-06

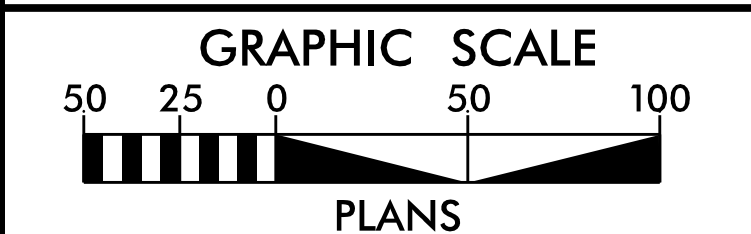
MATCHLINE - L- STA. 132+00 SEE PLAN SHEET TMP-08



3:38:53 PM
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 baicwlm

LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING PROPOSED TEMPORARY



SEE ROADWAY PLANS FOR -DET3- DETAILS

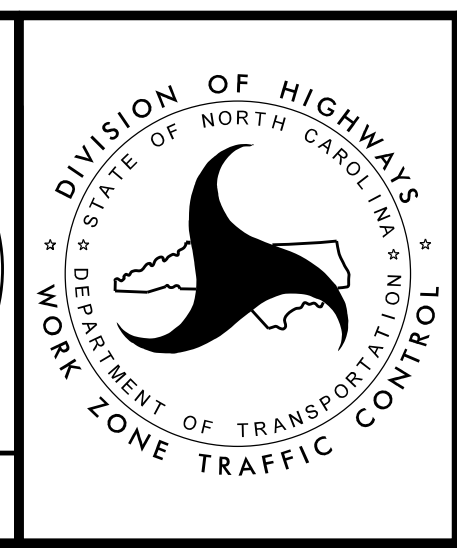
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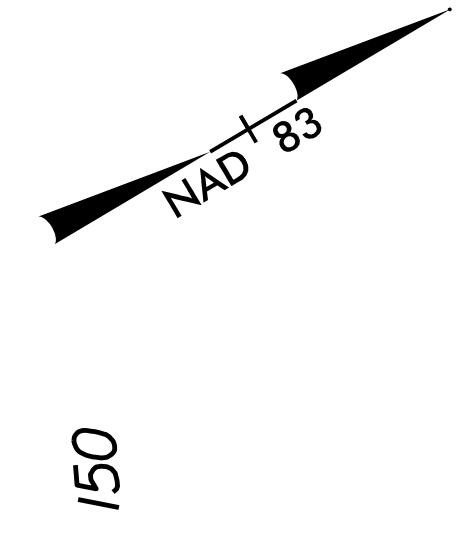
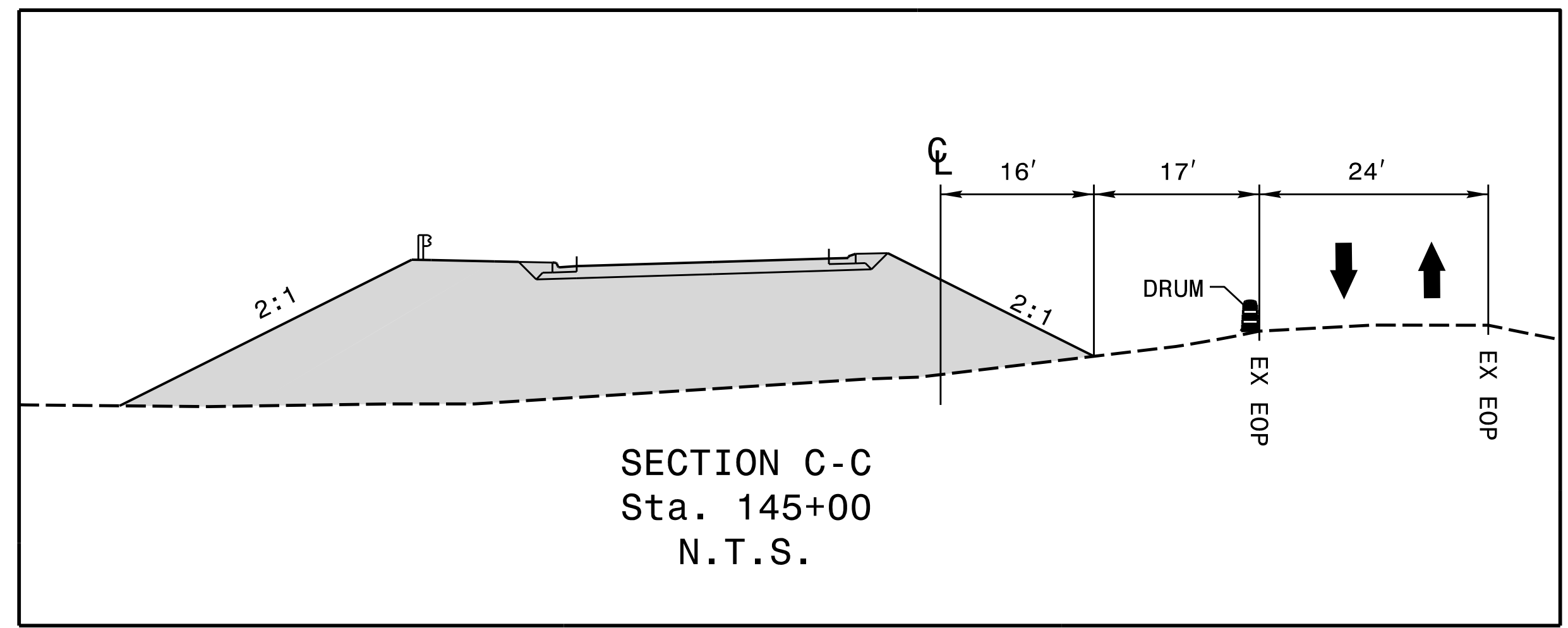
DATE: 9/27/2016

SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

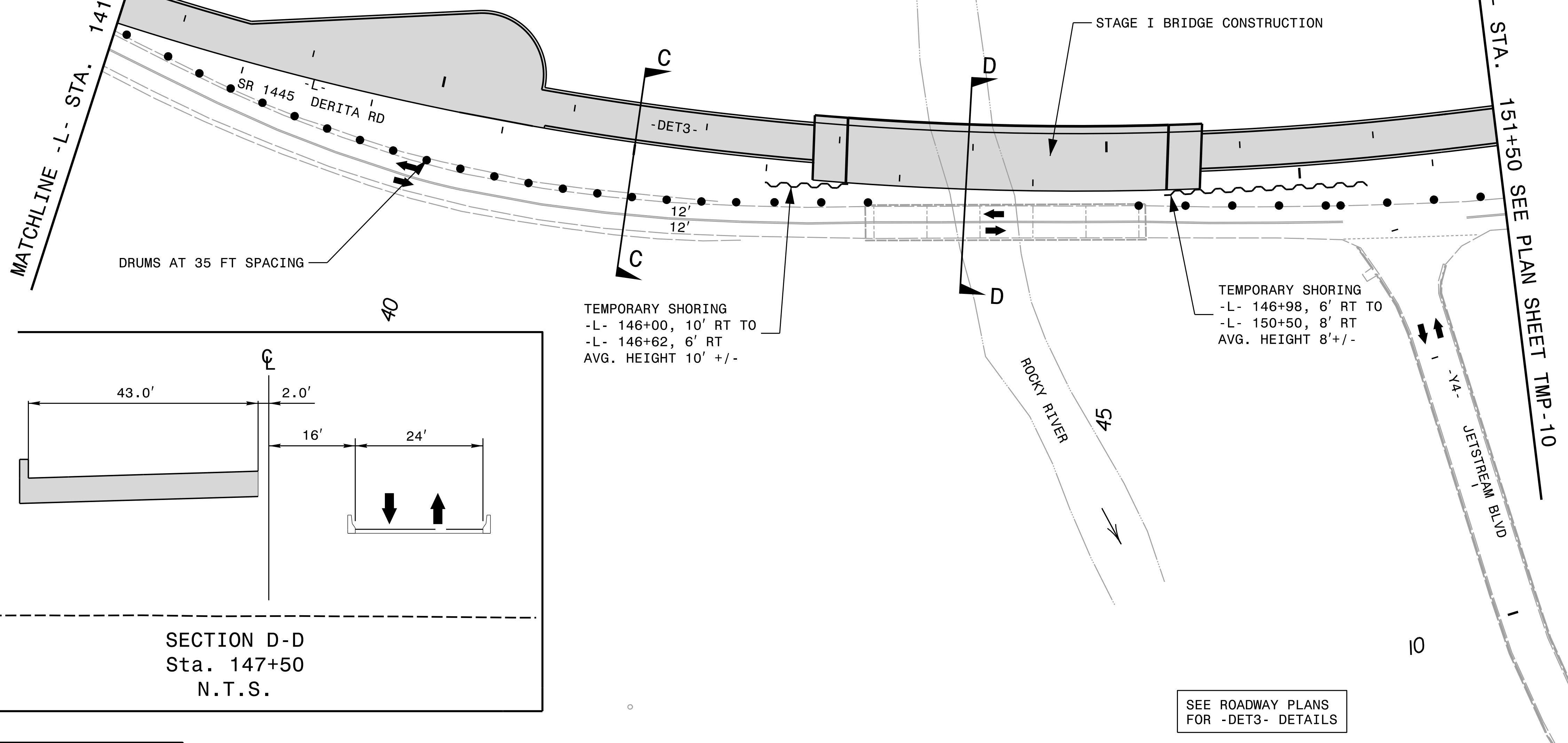
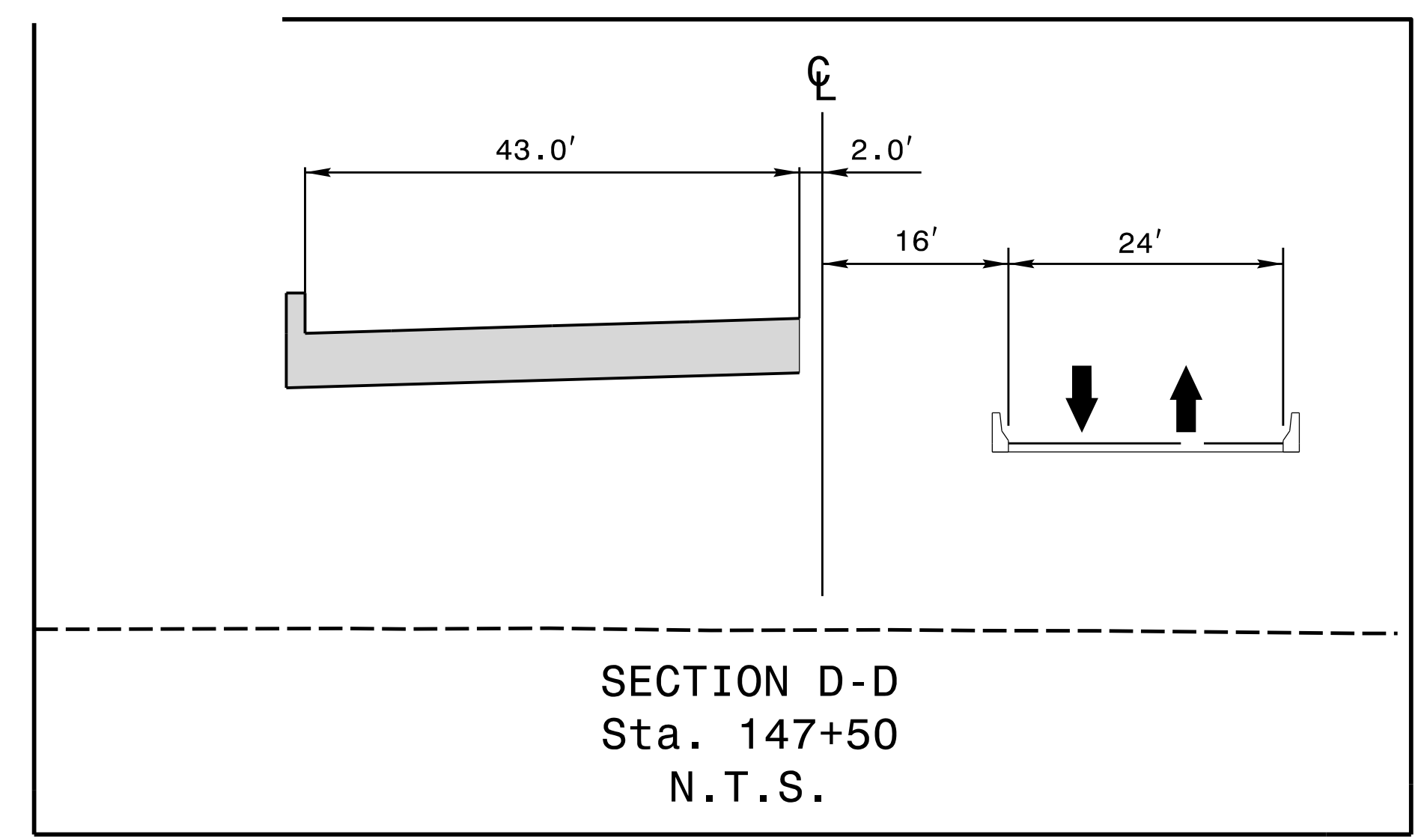


PHASE I - DETAIL 3



MATCHLINE -L- STA. 141+00 SEE PLAN SHEET TMP-08

MATCHLINE -L- STA. 151+50 SEE PLAN SHEET TMP-10



TEMPORARY SHORING
-L- 146+00, 10' RT TO
-L- 146+62, 6' RT
AVG. HEIGHT 10' +/-

TEMPORARY SHORING
-L- 146+98, 6' RT TO
-L- 150+50, 8' RT
AVG. HEIGHT 8'+/-

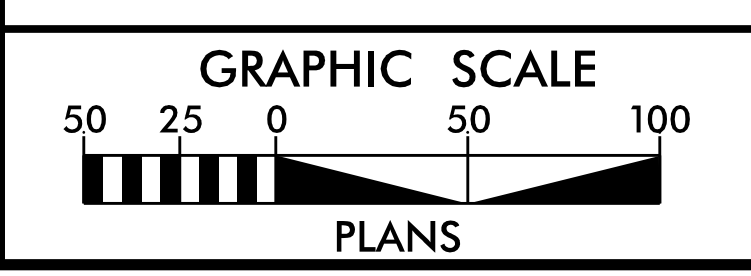
SEE ROADWAY PLANS
FOR -DET3- DETAILS

3:40:00 PM P:\Projects\2\14910_DeritaRd\TrafficControl\TCP\Segment_2\Phase_1\U4910_1c2_pnl_det4.dgn baicwlm

LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS

EXISTING PROPOSED TEMPORARY



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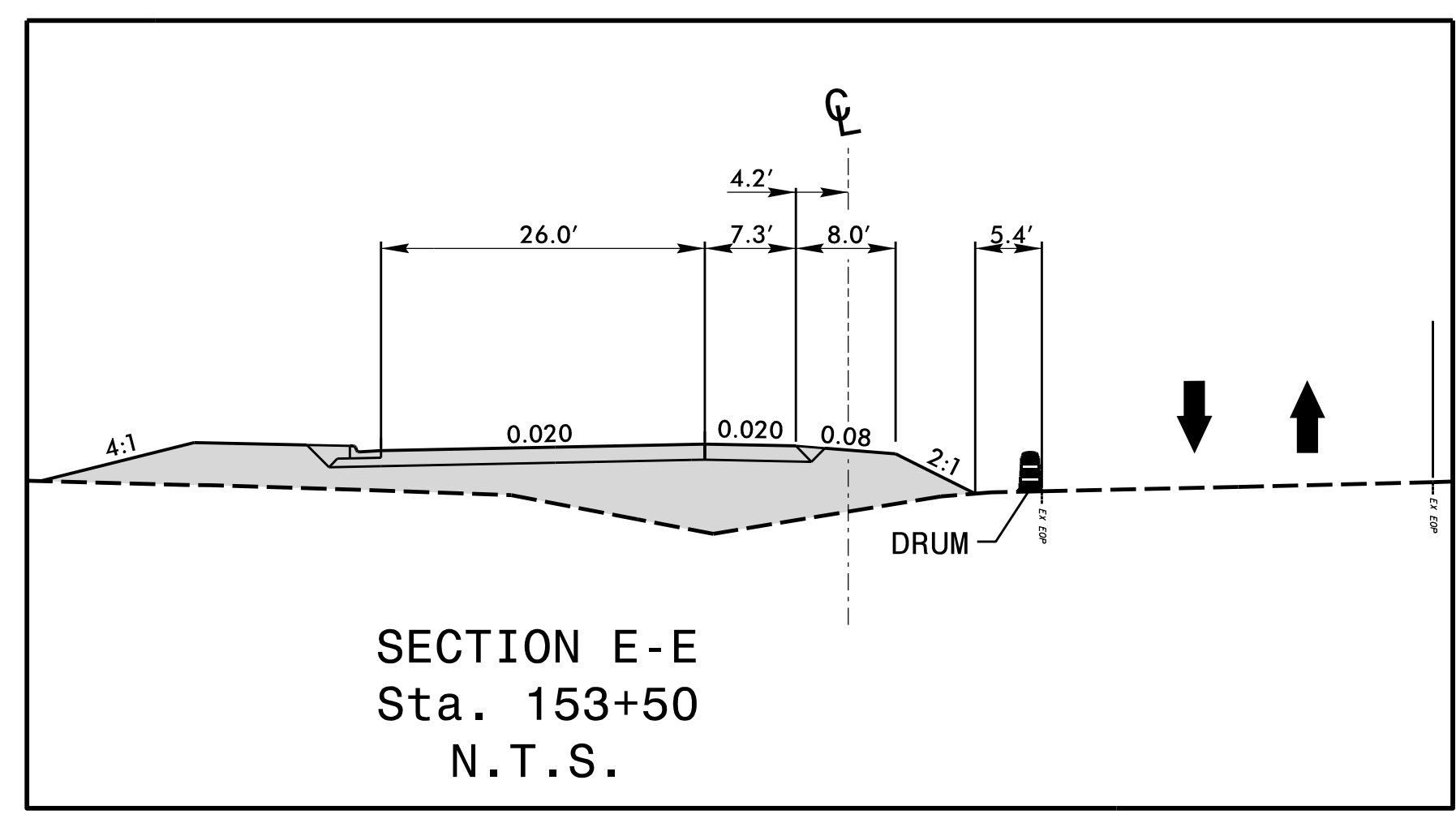
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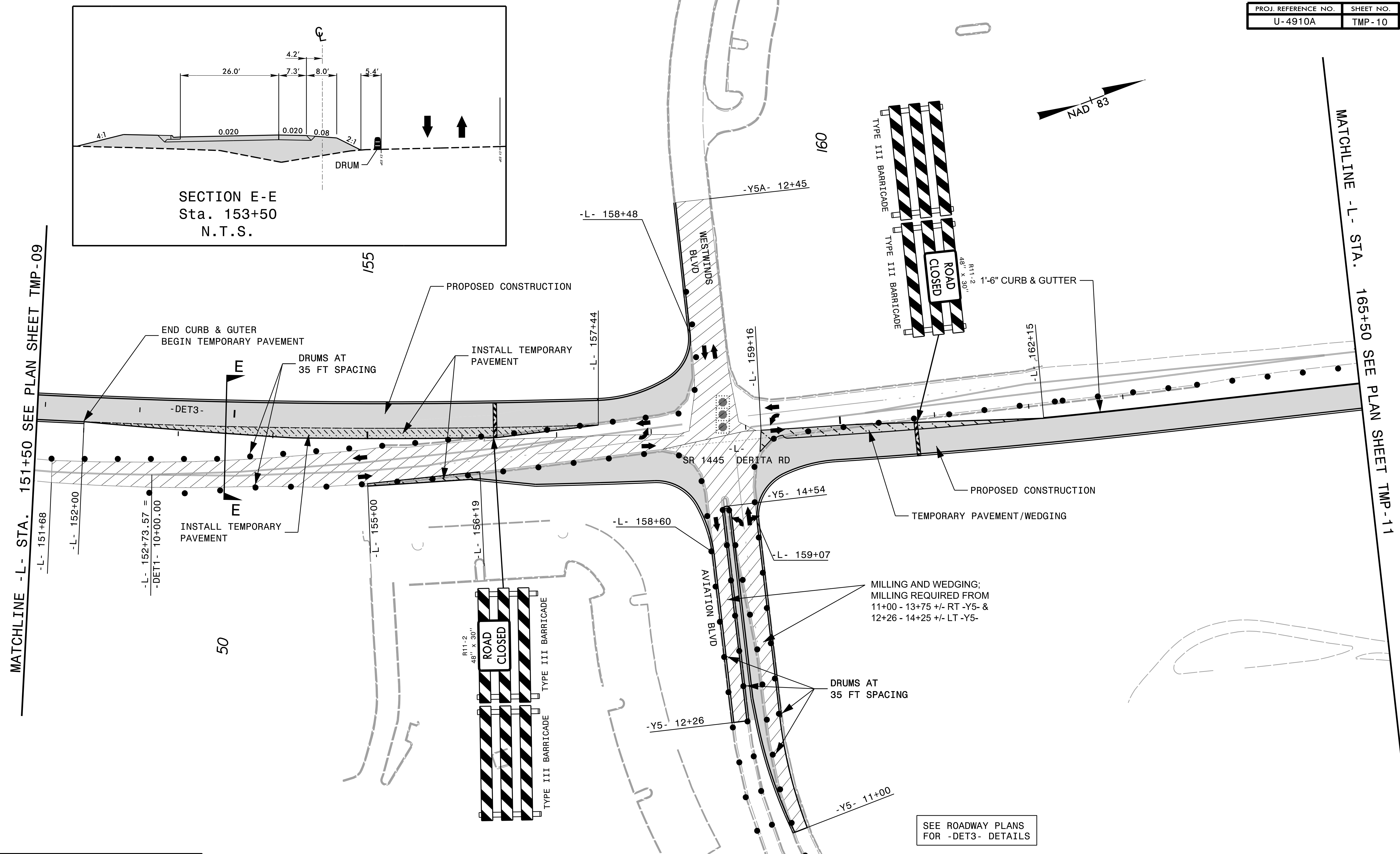
PHASE I - DETAIL 4

DEPARTMENT OF TRANSPORTATION & WORK ZONE TRAFFIC CONTROL



MATCHLINE -L- STA. 151+50 SEE PLAN SHEET TMP-09

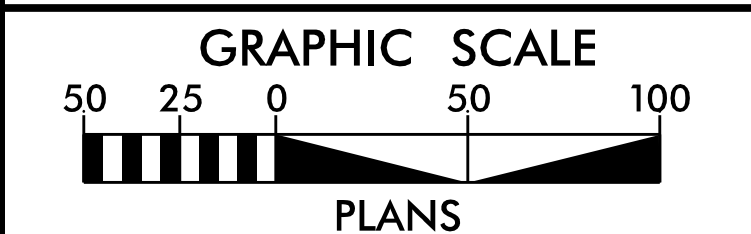
MATCHLINE -L- STA. 165+50 SEE PLAN SHEET TMP-11



LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS

EXISTING PROPOSED TEMPORARY



SEE ROADWAY PLANS FOR -DET3- DETAILS

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SEAL

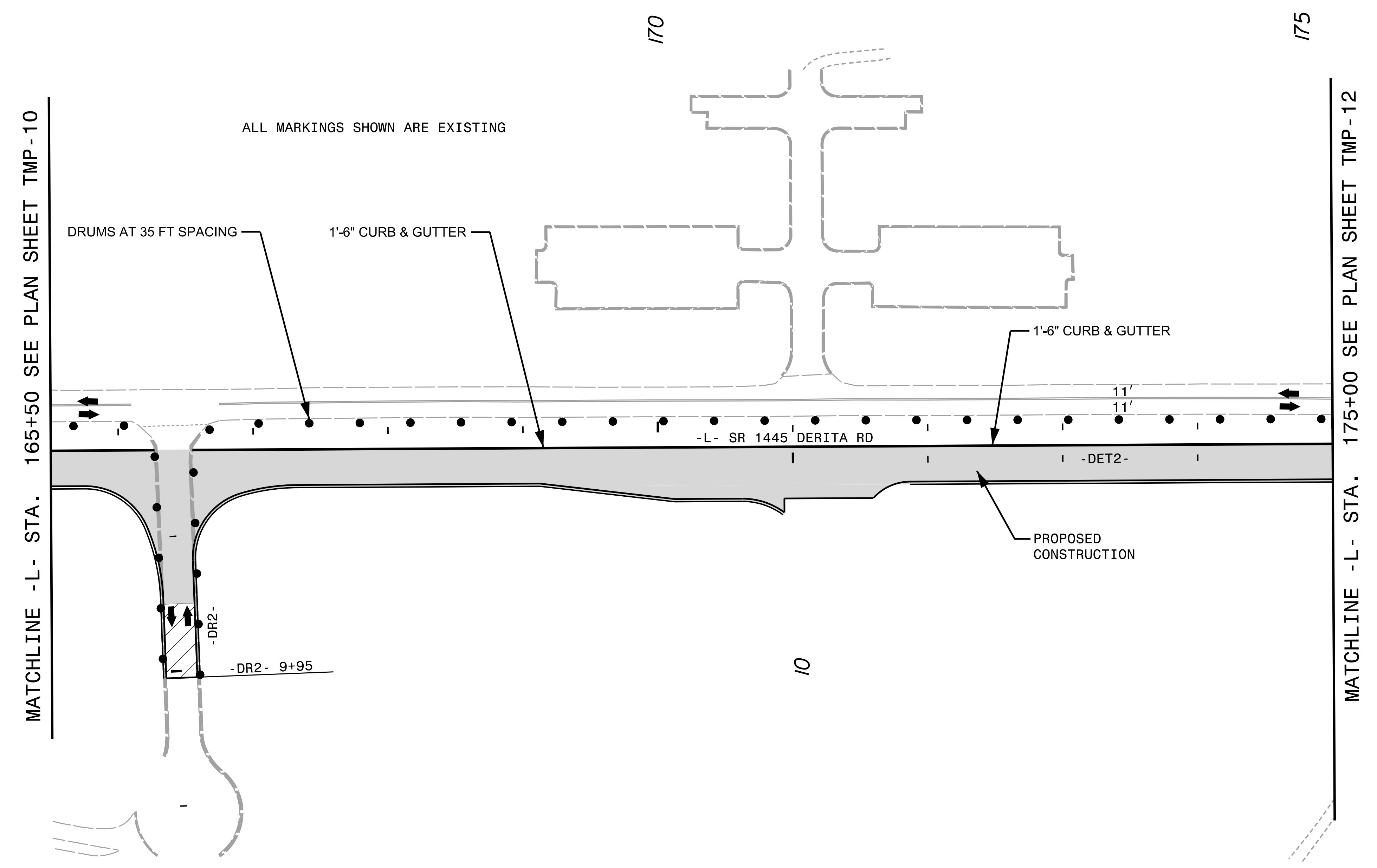
NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 18122
 FREDREY A. KOONZ

SEAL

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

PHASE I - DETAIL 5

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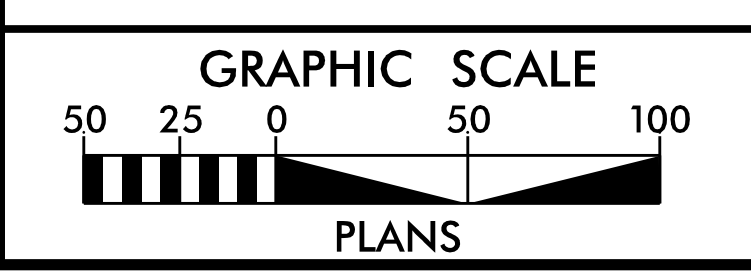
MATCHLINE - L - STA. 165+50 SEE PLAN SHEET TMP-10

MATCHLINE - L - STA. 175+00 SEE PLAN SHEET TMP-12

LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS

EXISTING PROPOSED TEMPORARY

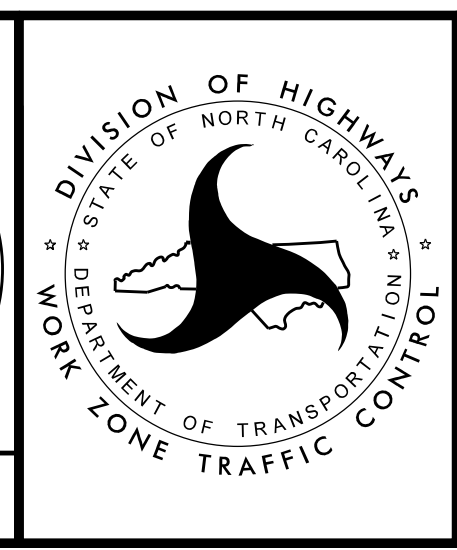


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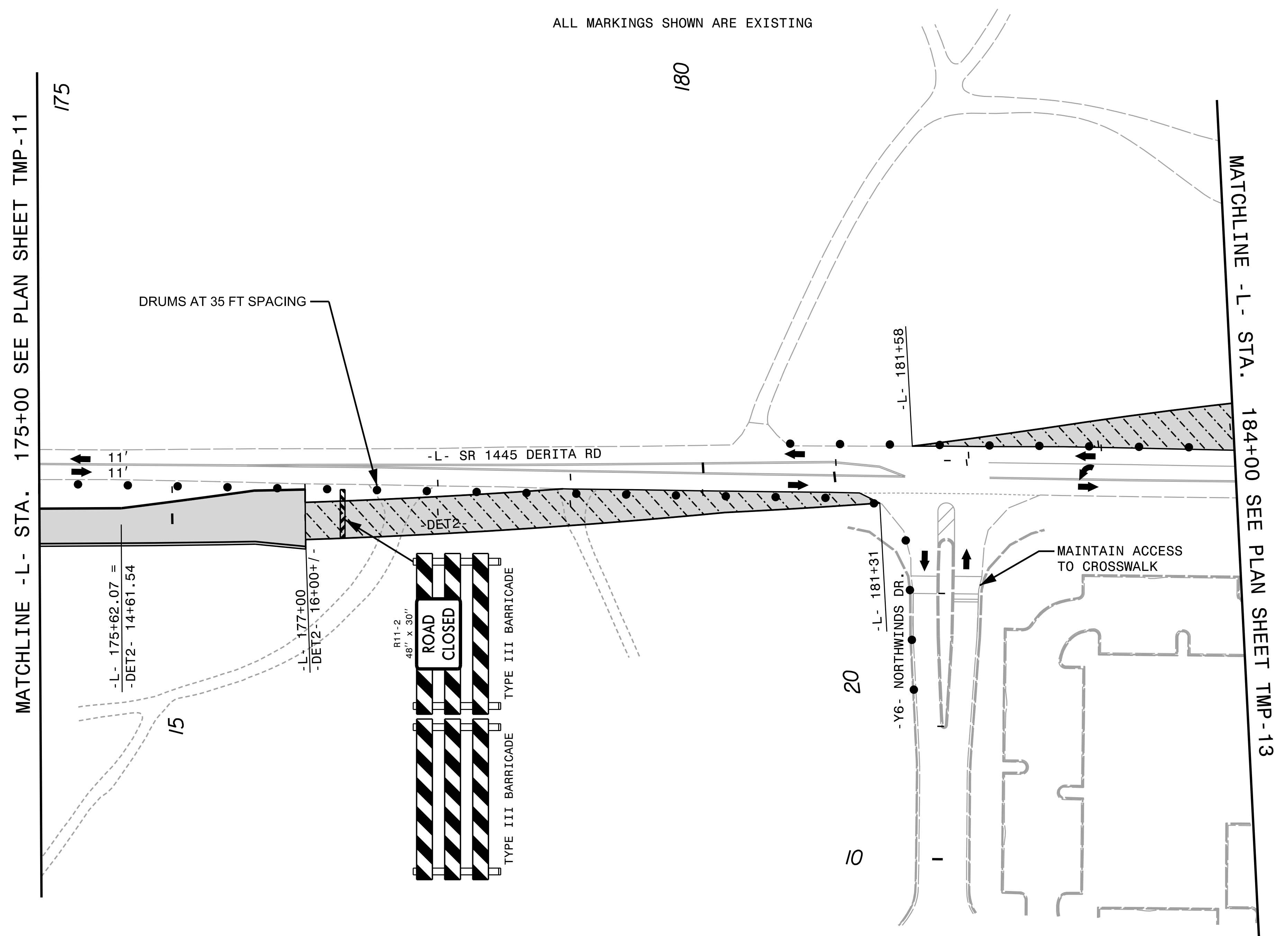


PHASE I - DETAIL 6

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ALL MARKINGS SHOWN ARE EXISTING

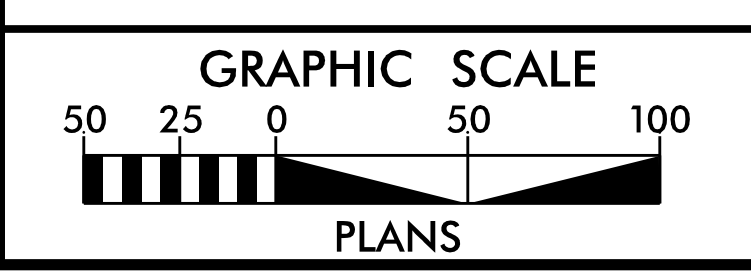


SEE ROADWAY PLANS FOR -DET2- DETAILS

3:55:06 PM P:\Projects\2\14910_DeritaRd\TrafficControl\TCP\Segment_1\Phase1\U4910_tcl.pht-def03.dgn baicwlm

LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



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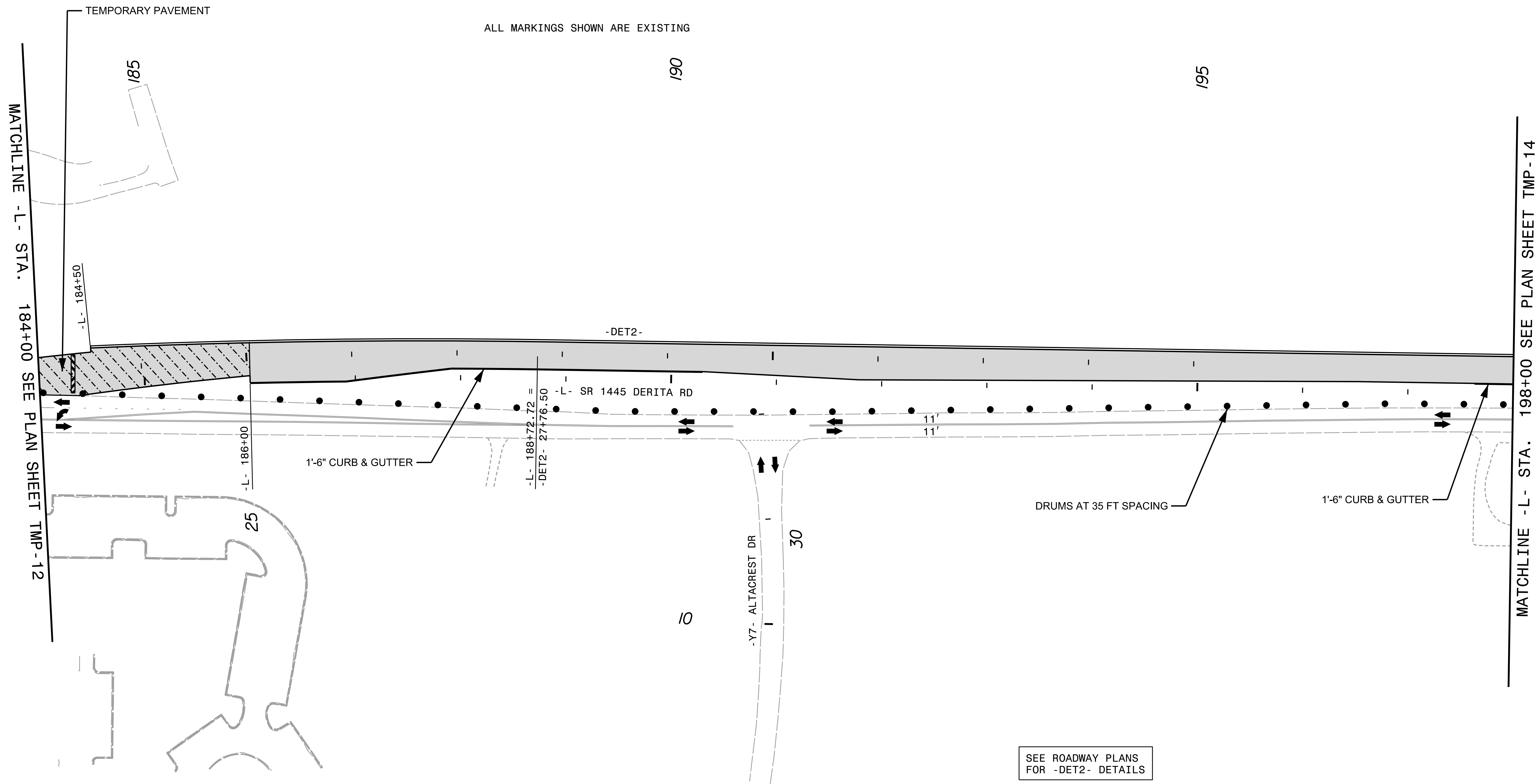
DATE: 9/27/2016

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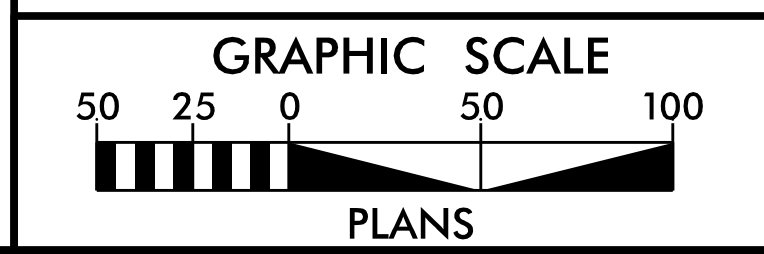


PHASE I - DETAIL 7



LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



SEE ROADWAY PLANS FOR -DET2- DETAILS

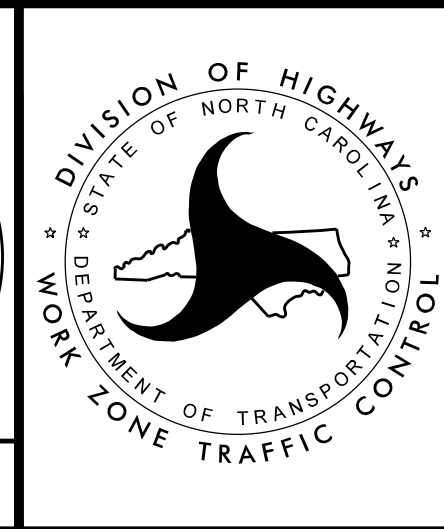
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PHASE I - DETAIL 8

3:56:15 PM
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 baicwlm



ALL MARKINGS SHOWN ARE EXISTING

200

205

210

MATCHLINE -L- STA. 198+00 SEE PLAN SHEET TMP-13

MATCHLINE STA. 212+00 SEE PLAN SHEET TMP-15

-L- SR1445 DERITA RD

-Y8- MISTYWOOD LN

1'-6" CURB & GUTTER

DRUMS AT 35 FT SPACING

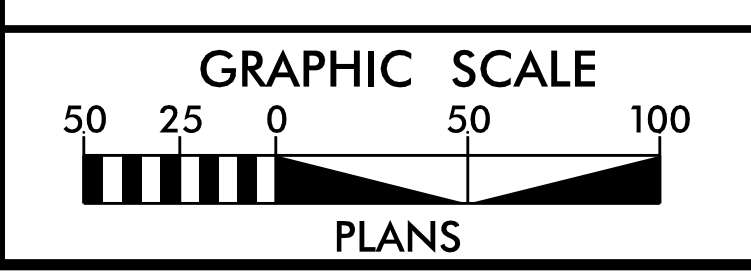
1'-6" CURB & GUTTER

10

3:57:36 PM P:\Projects\2\U4910_DeritaRd\TrafficControl\TCP\Segment_1\NPhase\U4910_tcl.phl.def05.dgn baicwlm

LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



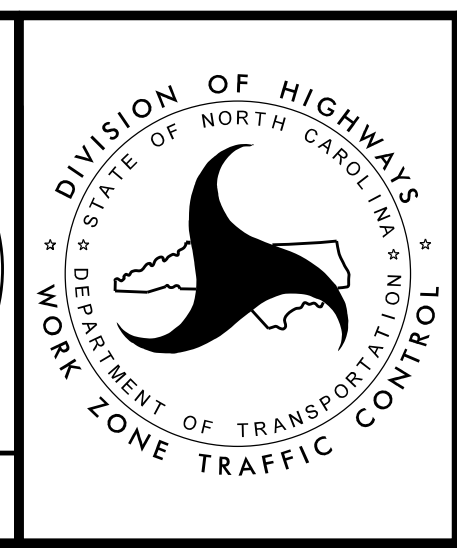
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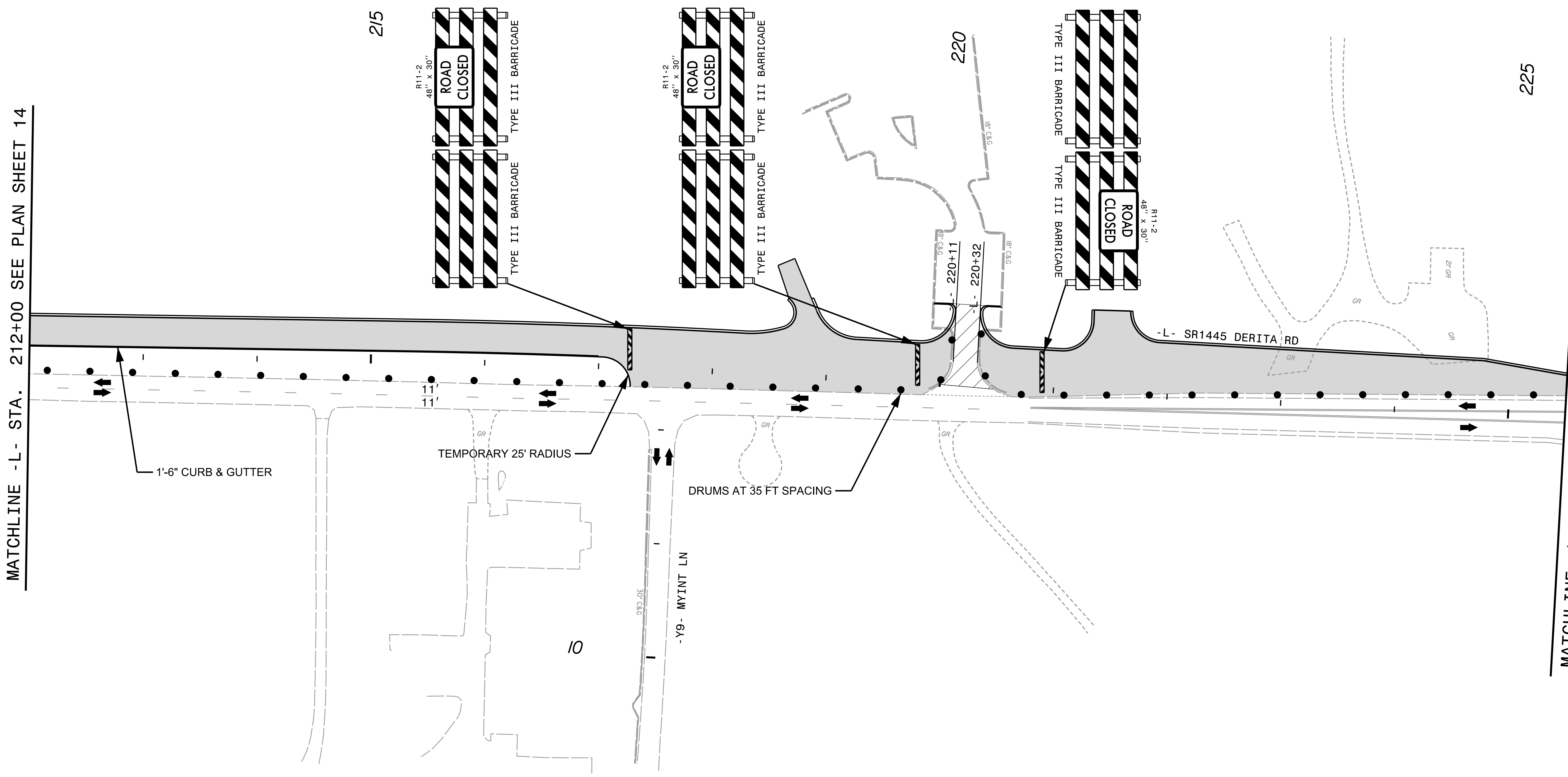
PHASE I - DETAIL 9



ALL MARKINGS SHOWN ARE EXISTING

MATCHLINE -L- STA. 212+00 SEE PLAN SHEET 14

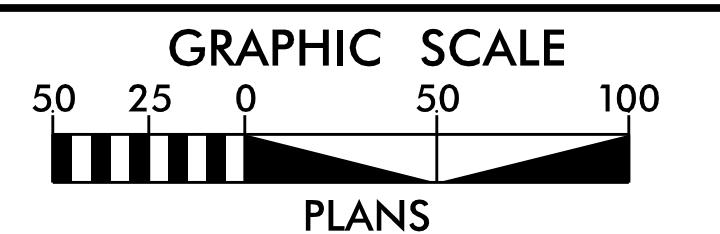
MATCHLINE -L- STA. 225+50 SEE PLAN SHEET 16



LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS

EXISTING PROPOSED TEMPORARY



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 NORTH CAROLINA
 PROFESSIONAL
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 18122
 JEFFREY A. KOONCE

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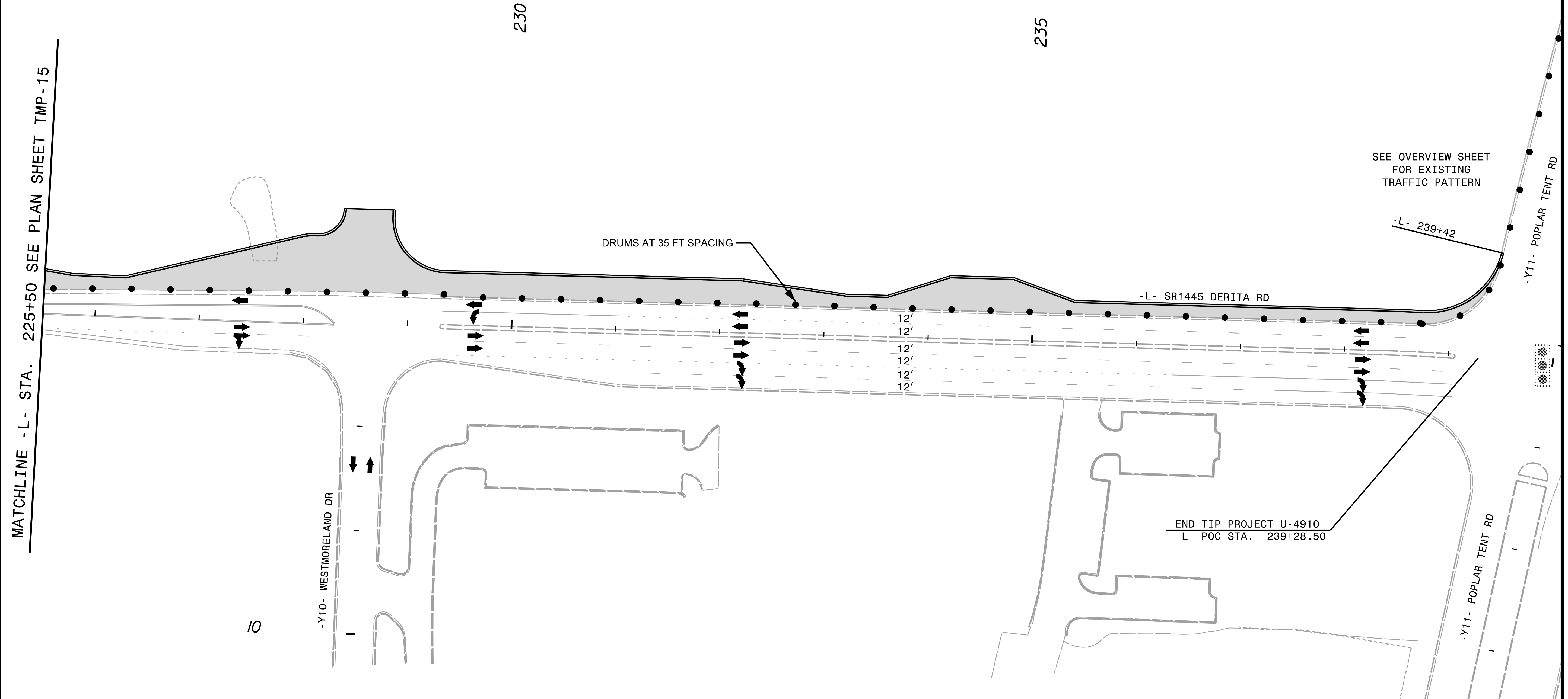
PHASE I - DETAIL 10

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ALL MARKINGS SHOWN ARE EXISTING

MATCHLINE -L- STA. 225+50 SEE PLAN SHEET TMP-15



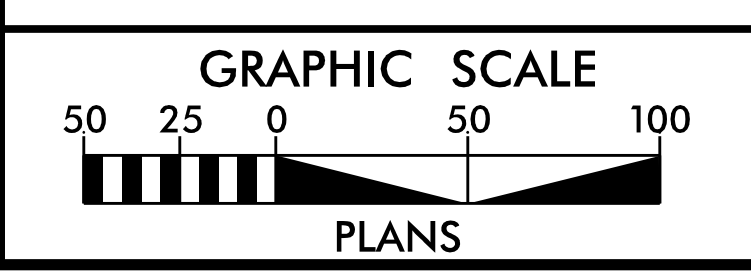
SEE OVERVIEW SHEET FOR EXISTING TRAFFIC PATTERN

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LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS

EXISTING PROPOSED TEMPORARY

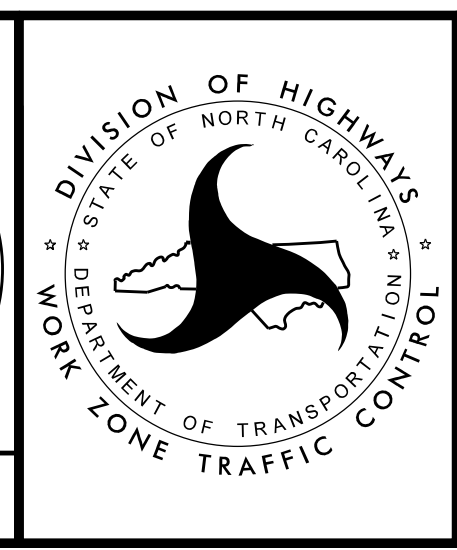


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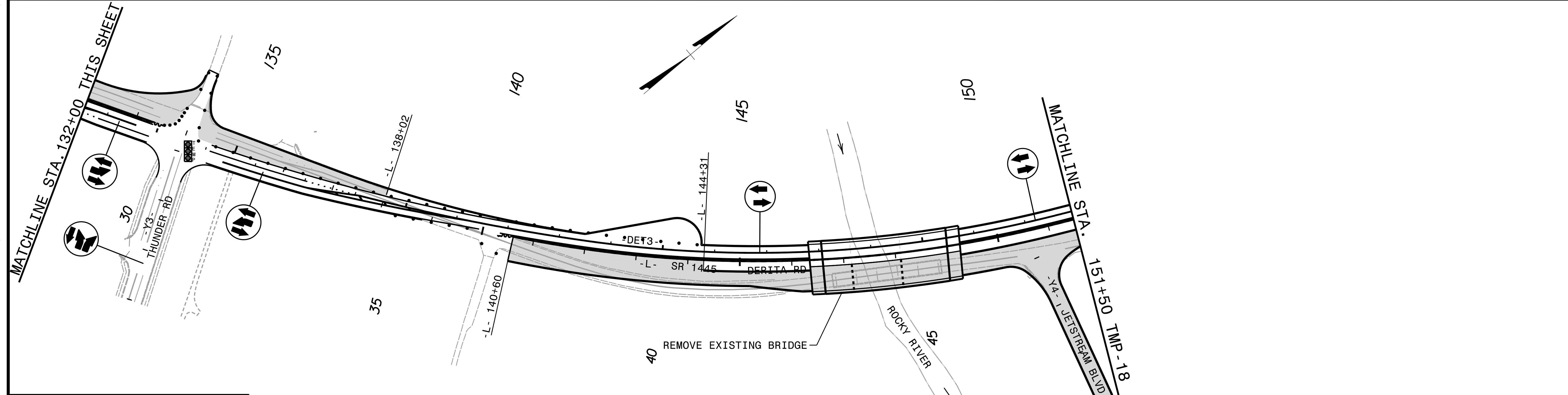
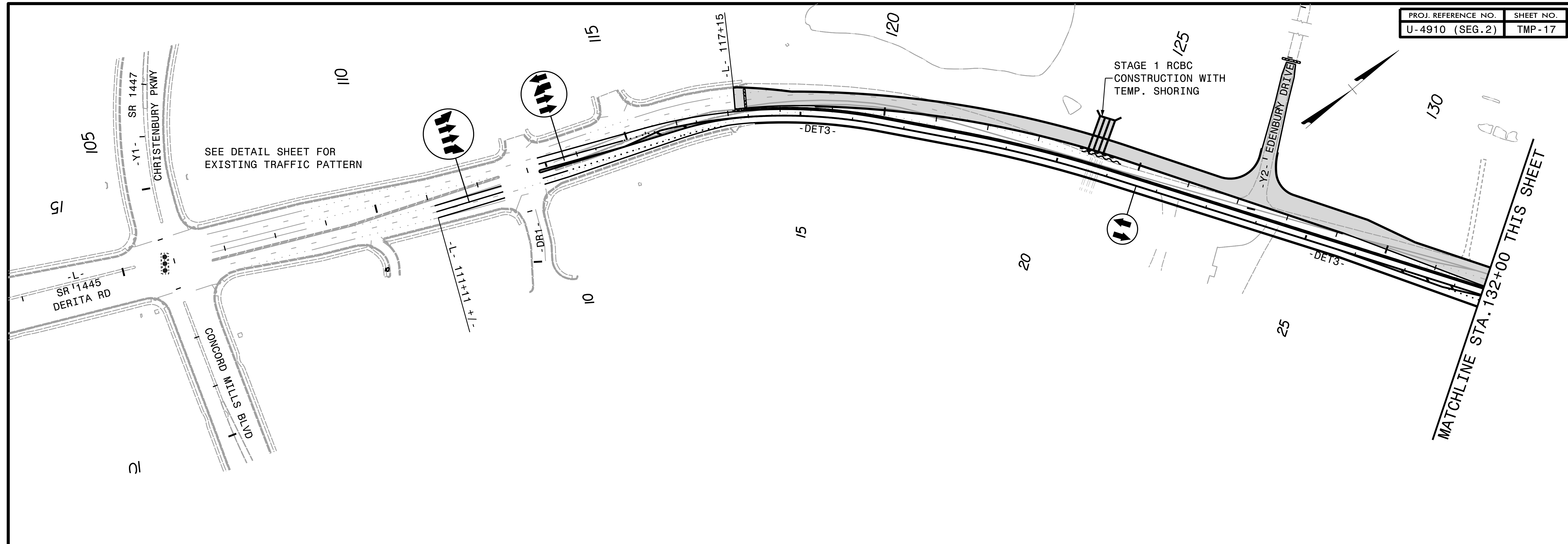
DATE: 9/27/2016

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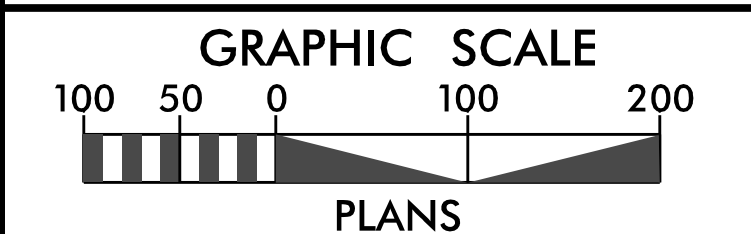
PHASE I - DETAIL 11

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LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY

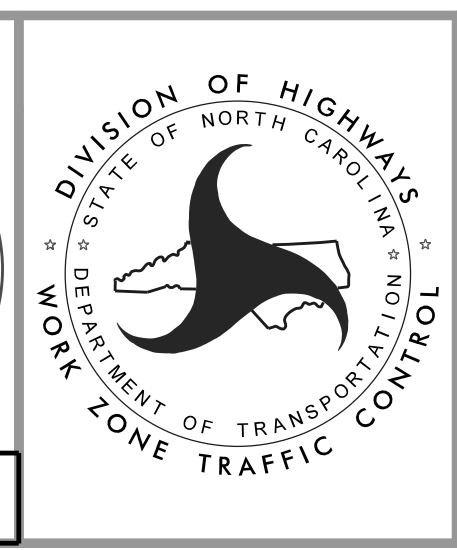


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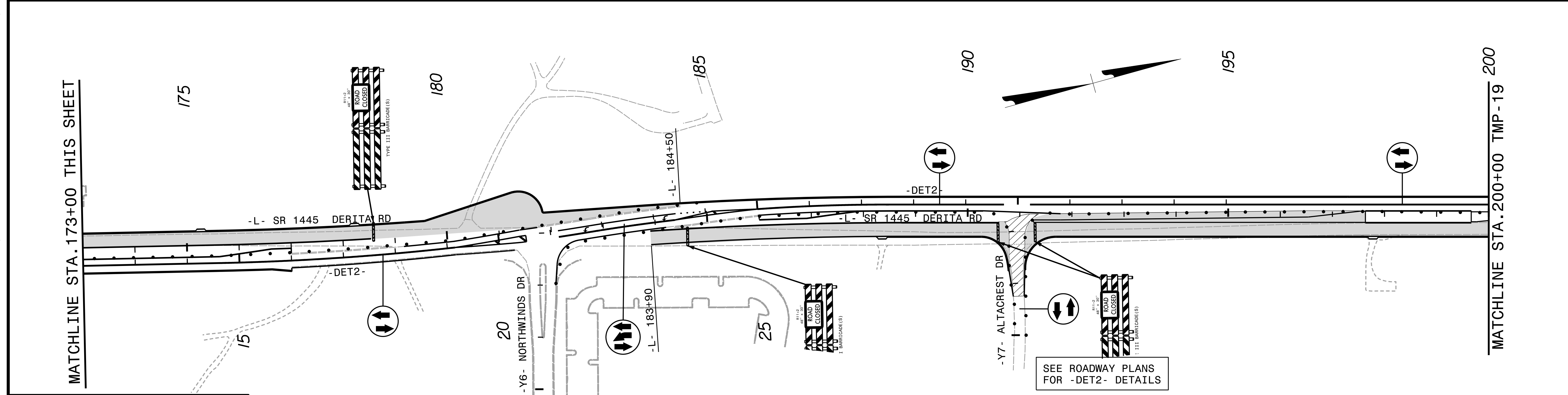
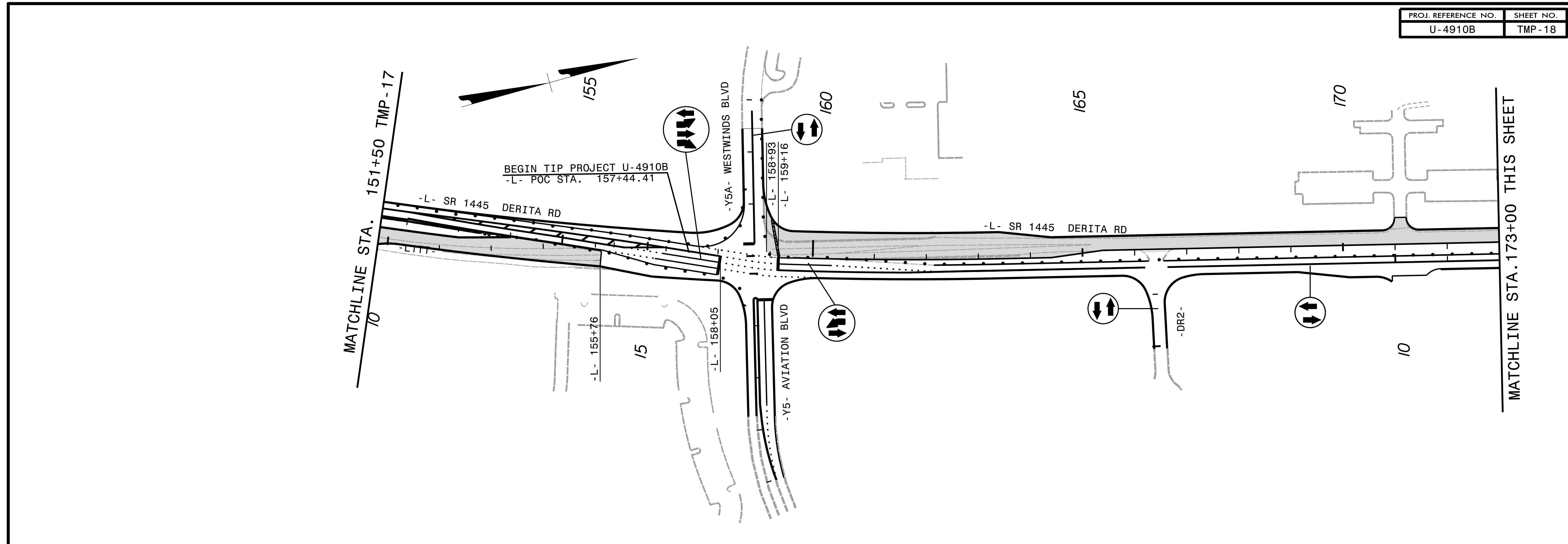
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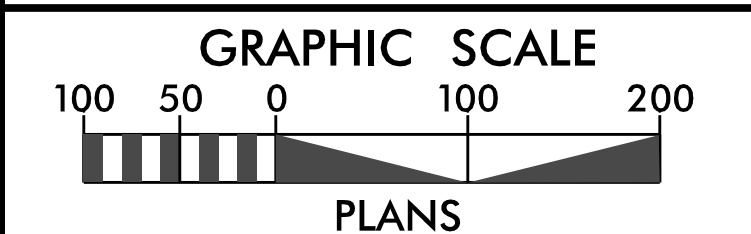
PHASE II OVERVIEW 1

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 bolgwin



LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



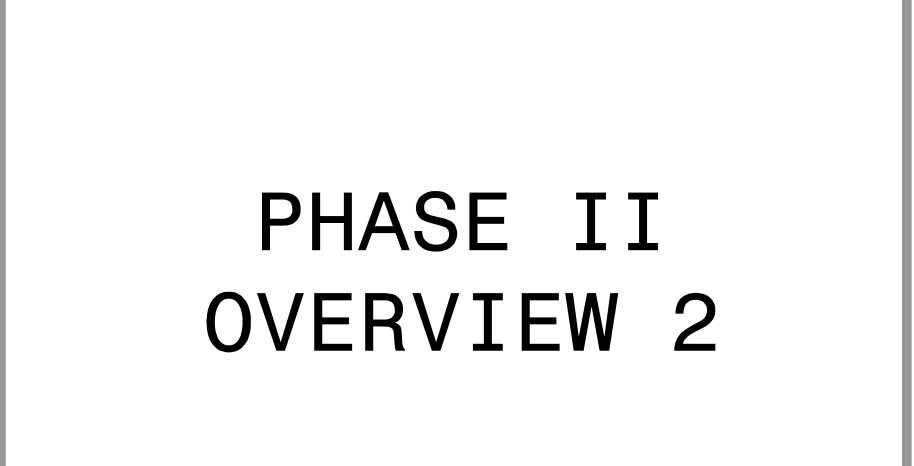
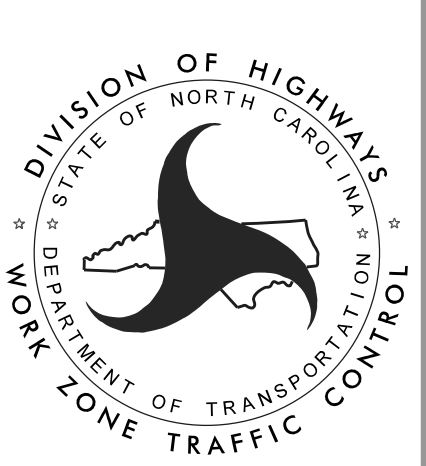
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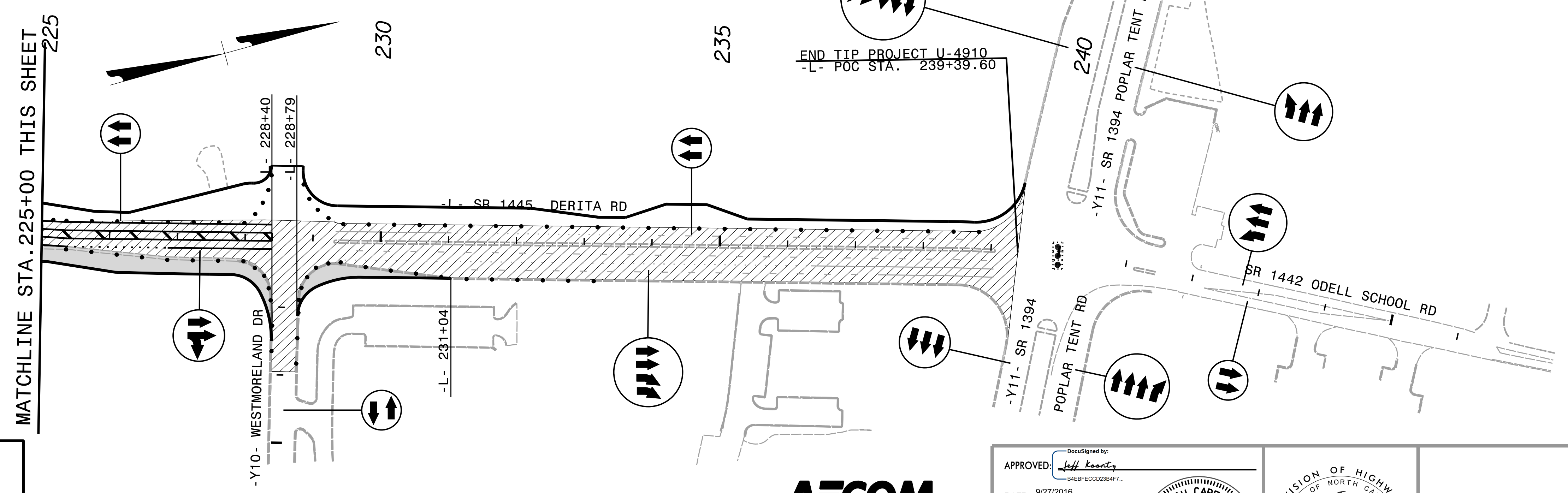
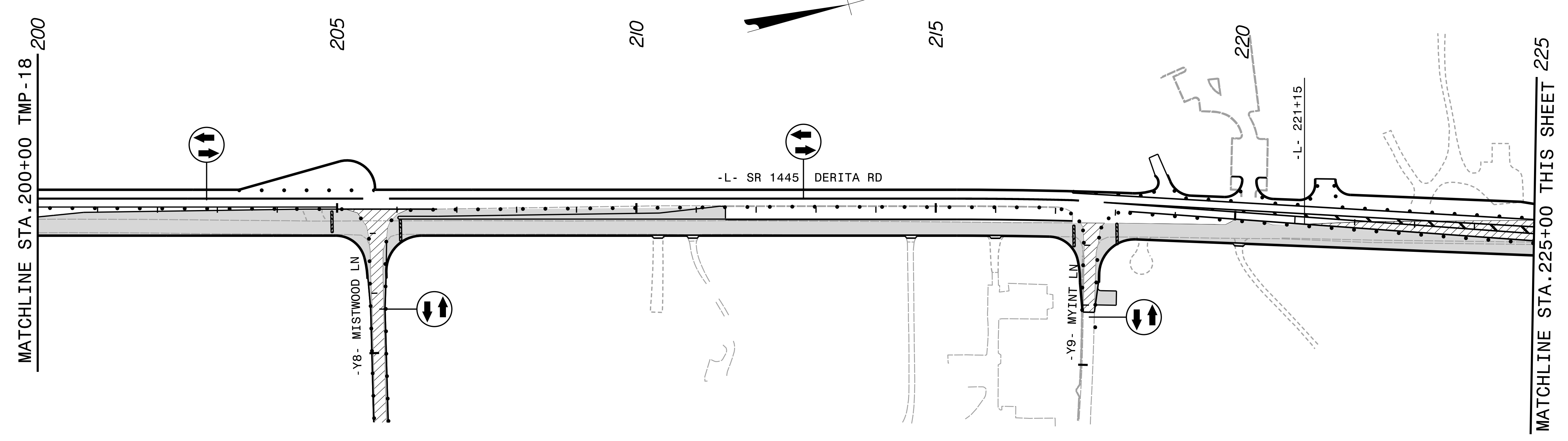
SEAL

SEE ROADWAY PLANS FOR -DET2- DETAILS

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9/27/2016 4:05:55 PM
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 bolgmd

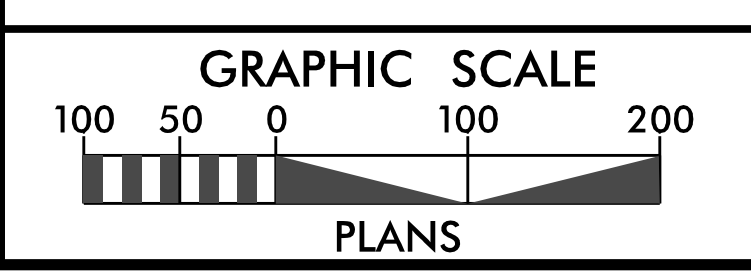


LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

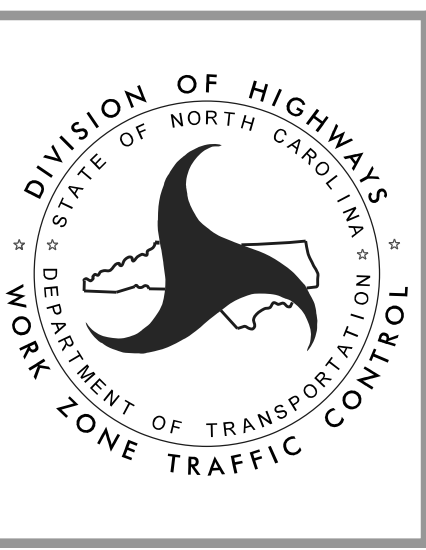


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 DATE: 9/27/2016

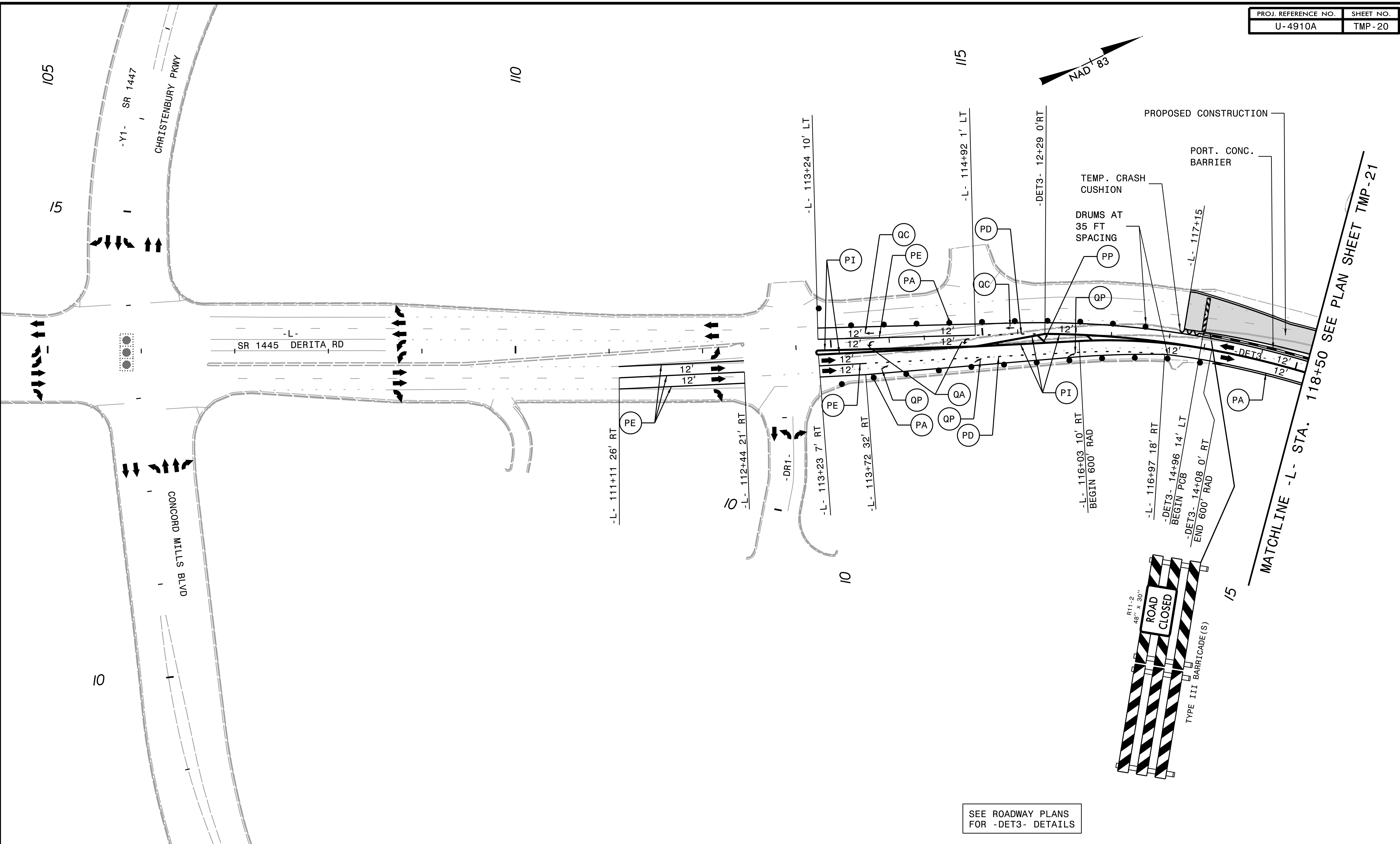
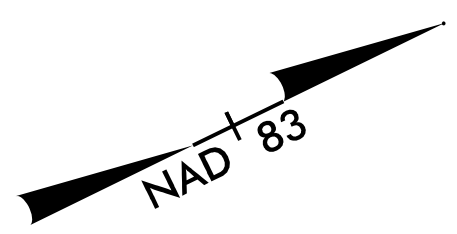
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**PHASE II
 OVERVIEW 3**

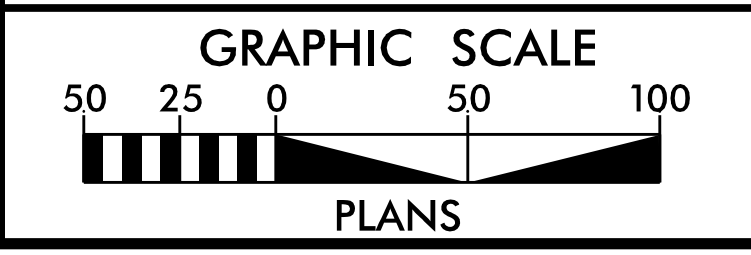
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SEE ROADWAY PLANS FOR -DET3- DETAILS

LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS
- EXISTING
- PROPOSED
- TEMPORARY



4:08:17 PM
 P:\Projects\2\U4910_DeritaRd\TrafficControl\TCP\Segment_2\U4910_t02_ph2.dgn
 baicwin

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APPROVED: *Jeff Koenig*
94EFEC02384F7

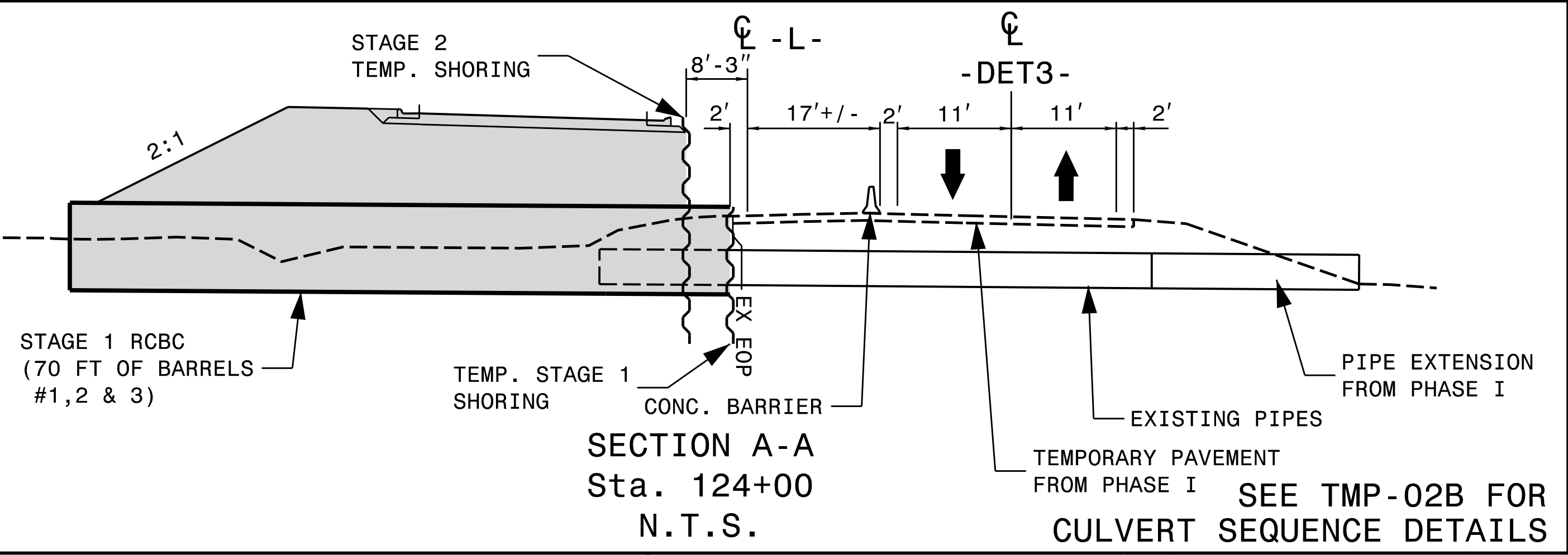
DATE: 9/27/2016

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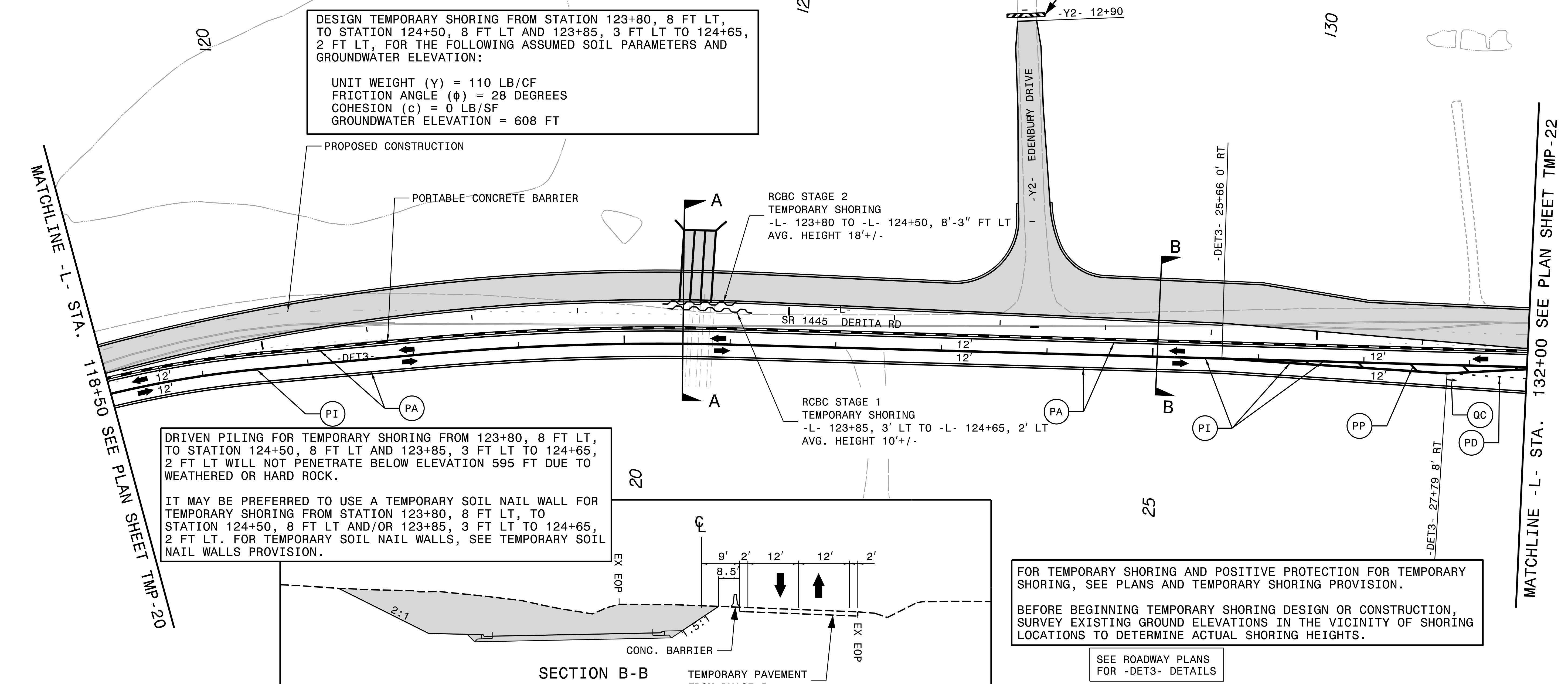


PHASE II - DETAIL 1



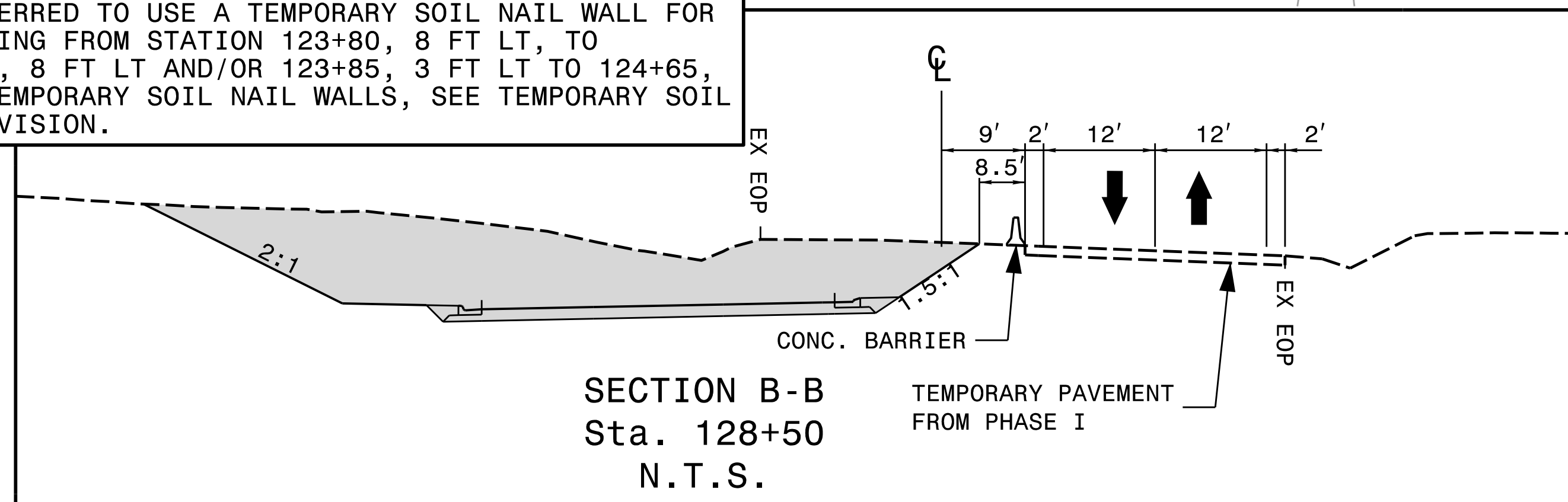
DESIGN TEMPORARY SHORING FROM STATION 123+80, 8 FT LT, TO STATION 124+50, 8 FT LT AND 123+85, 3 FT LT TO 124+65, 2 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 110 LB/CF
 FRICTION ANGLE (ϕ) = 28 DEGREES
 COHESION (c) = 0 LB/SF
 GROUNDWATER ELEVATION = 608 FT



DRIVEN PILING FOR TEMPORARY SHORING FROM 123+80, 8 FT LT, TO STATION 124+50, 8 FT LT AND 123+85, 3 FT LT TO 124+65, 2 FT LT WILL NOT PENETRATE BELOW ELEVATION 595 FT DUE TO WEATHERED OR HARD ROCK.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION 123+80, 8 FT LT, TO STATION 124+50, 8 FT LT AND/OR 123+85, 3 FT LT TO 124+65, 2 FT LT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.



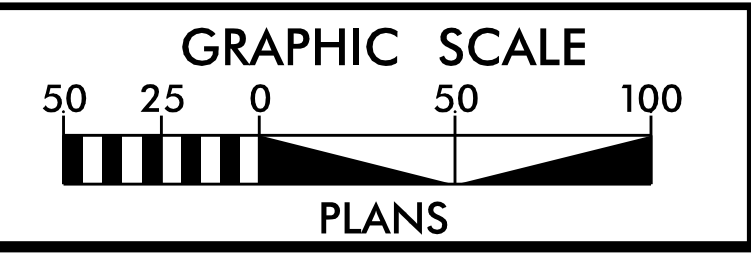
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

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

SEE ROADWAY PLANS FOR -DET3- DETAILS

LEGEND

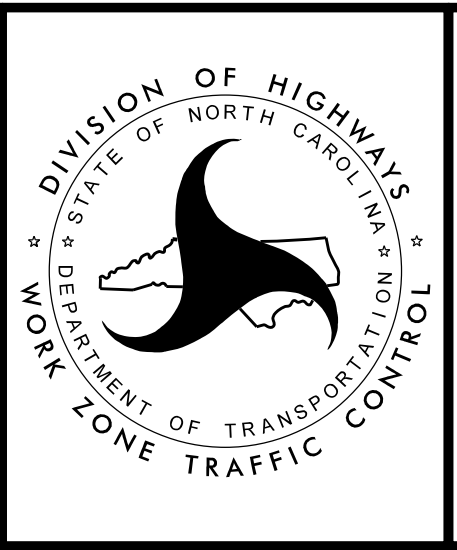
- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- EXISTING PROPOSED TEMPORARY
- SIGNALS



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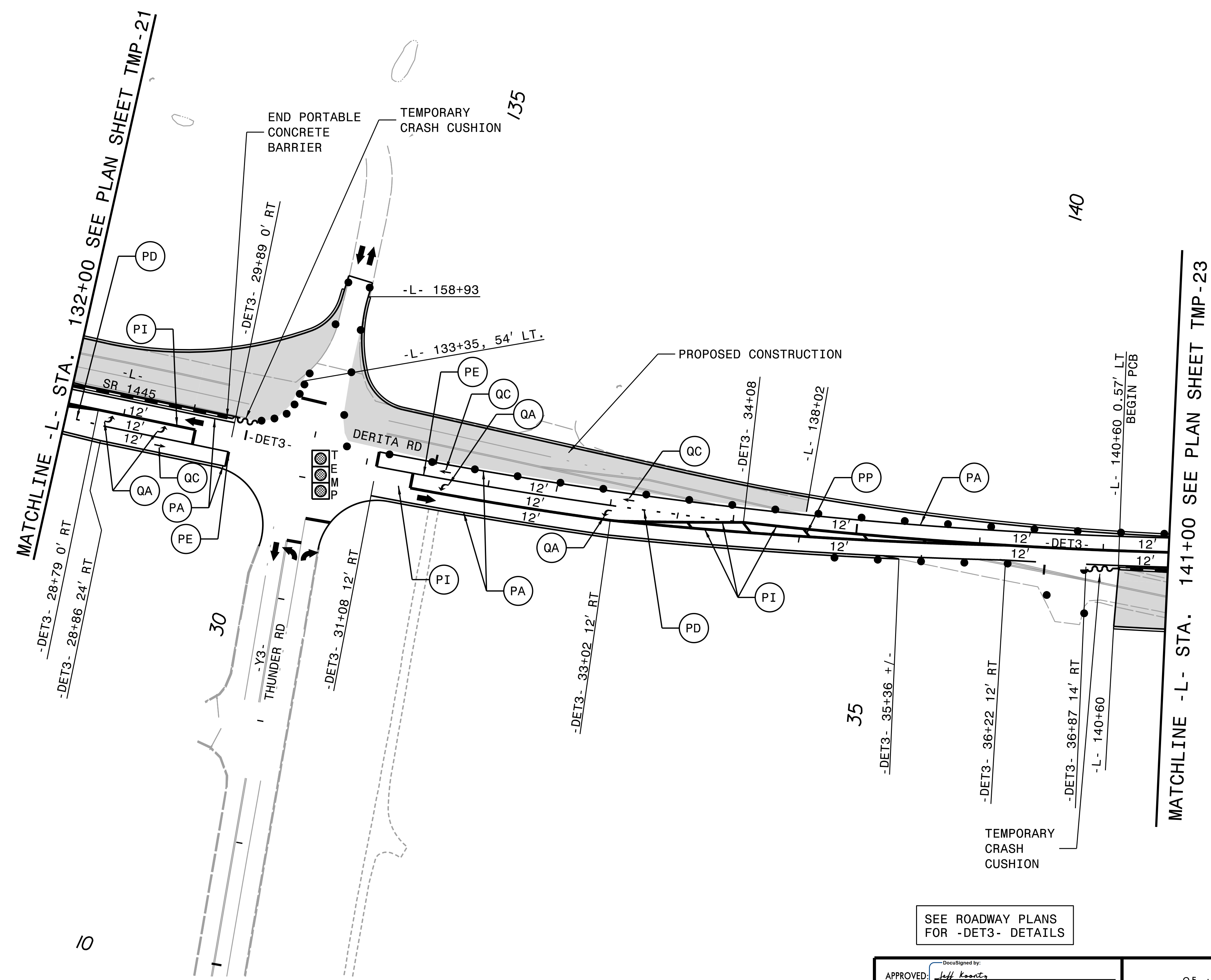
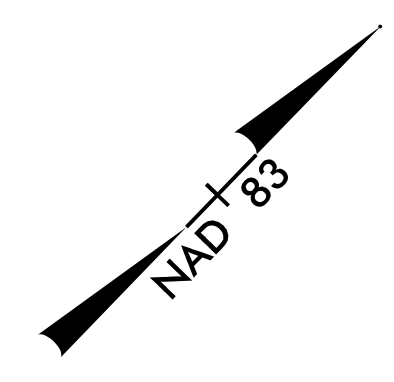
APPROVED: *Jeff Keating*
 DATE: 1/18/2017

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 18122
 JEFFREY A. KOONTZ



PHASE II - DETAIL 2

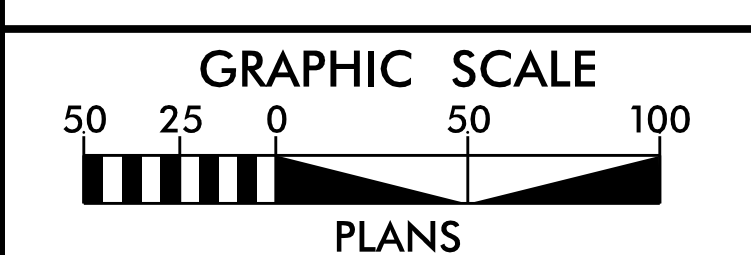
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3:50:41 PM
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 baicwlm

LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



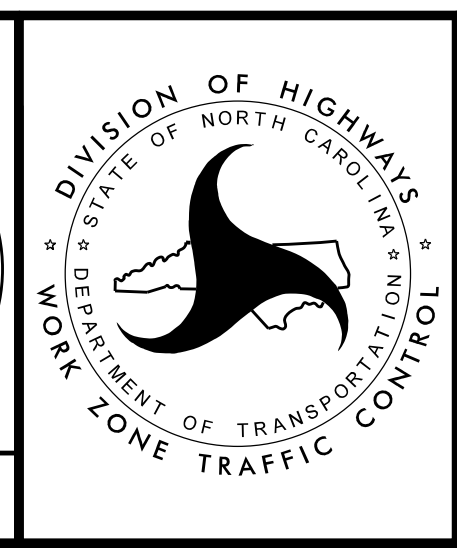
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FOR -DET3- DETAILS

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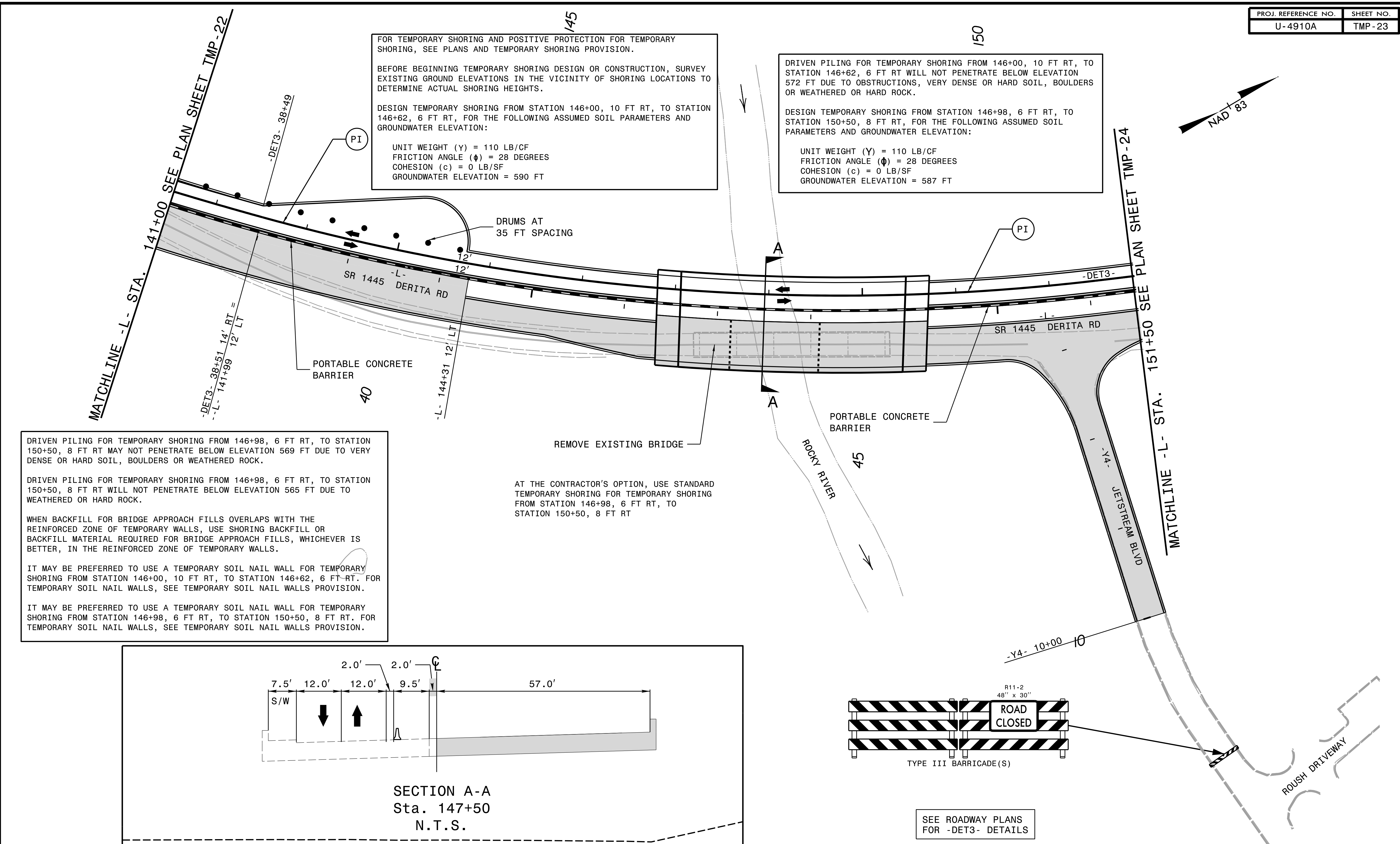
APPROVED: *Jeff Koontz*
 DATE: 9/27/2016

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PHASE II - DETAIL 3



DRIVEN PILING FOR TEMPORARY SHORING FROM 146+98, 6 FT RT, TO STATION 150+50, 8 FT RT MAY NOT PENETRATE BELOW ELEVATION 569 FT DUE TO VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED ROCK.

DRIVEN PILING FOR TEMPORARY SHORING FROM 146+98, 6 FT RT, TO STATION 150+50, 8 FT RT WILL NOT PENETRATE BELOW ELEVATION 565 FT DUE TO WEATHERED OR HARD ROCK.

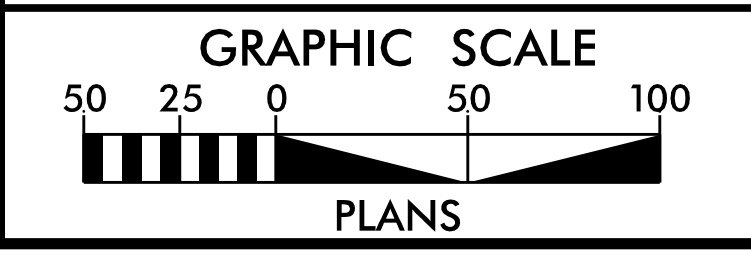
WHEN BACKFILL FOR BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION 146+00, 10 FT RT, TO STATION 146+62, 6 FT-RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION 146+98, 6 FT RT, TO STATION 150+50, 8 FT RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS
- EXISTING PROPOSED TEMPORARY



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APPROVED: [Signature]
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SEE ROADWAY PLANS FOR -DET3- DETAILS

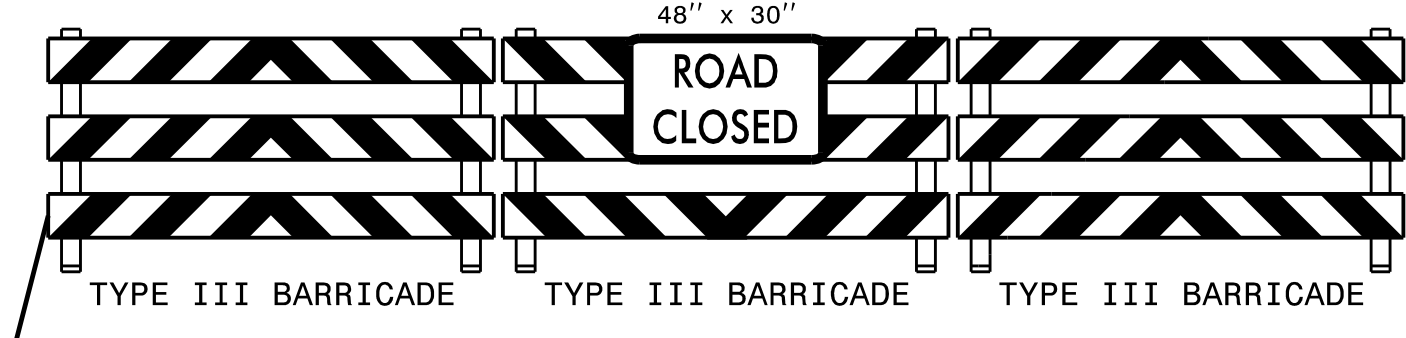
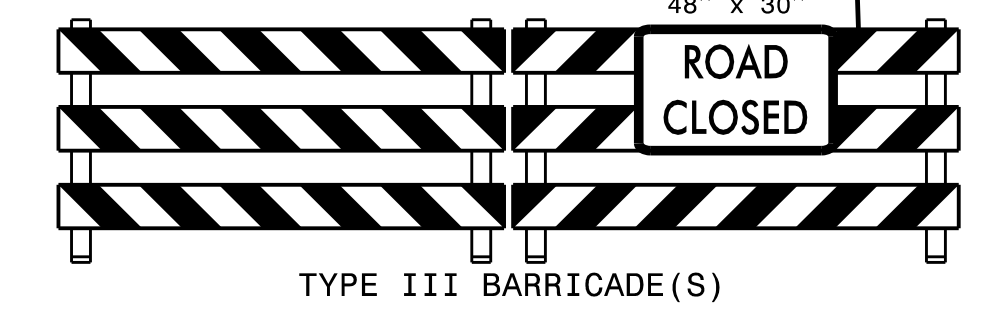
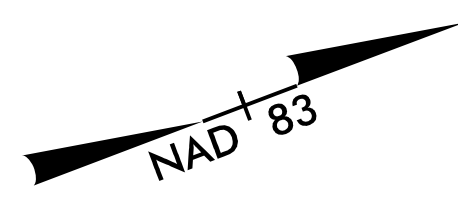
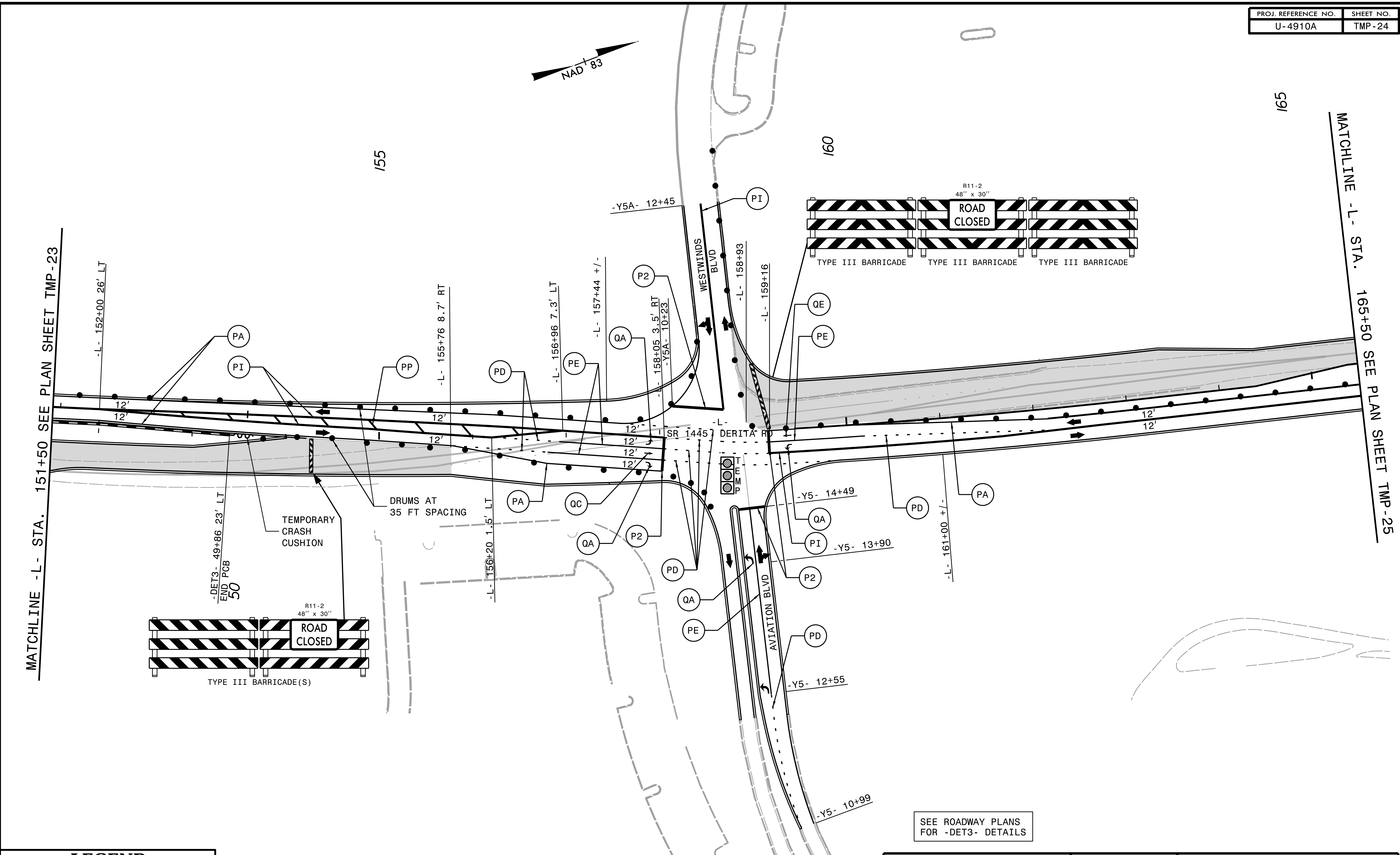


PHASE II - DETAIL 4

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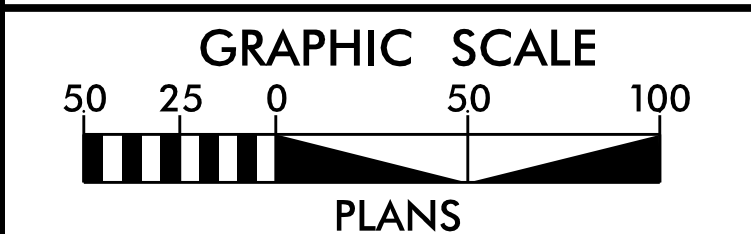
MATCHLINE -L- STA. 151+50 SEE PLAN SHEET TMP-23

MATCHLINE -L- STA. 165+50 SEE PLAN SHEET TMP-25



LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS
- EXISTING
- PROPOSED
- TEMPORARY



SEE ROADWAY PLANS FOR -DET3- DETAILS

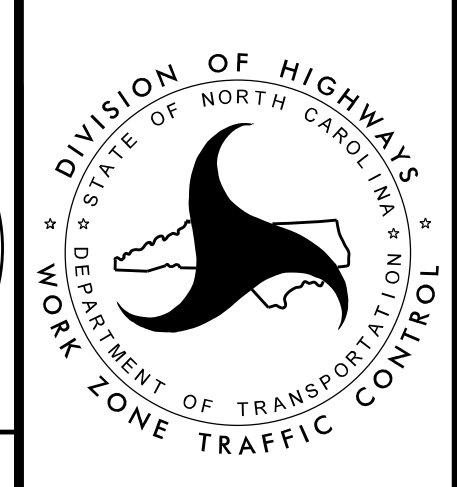
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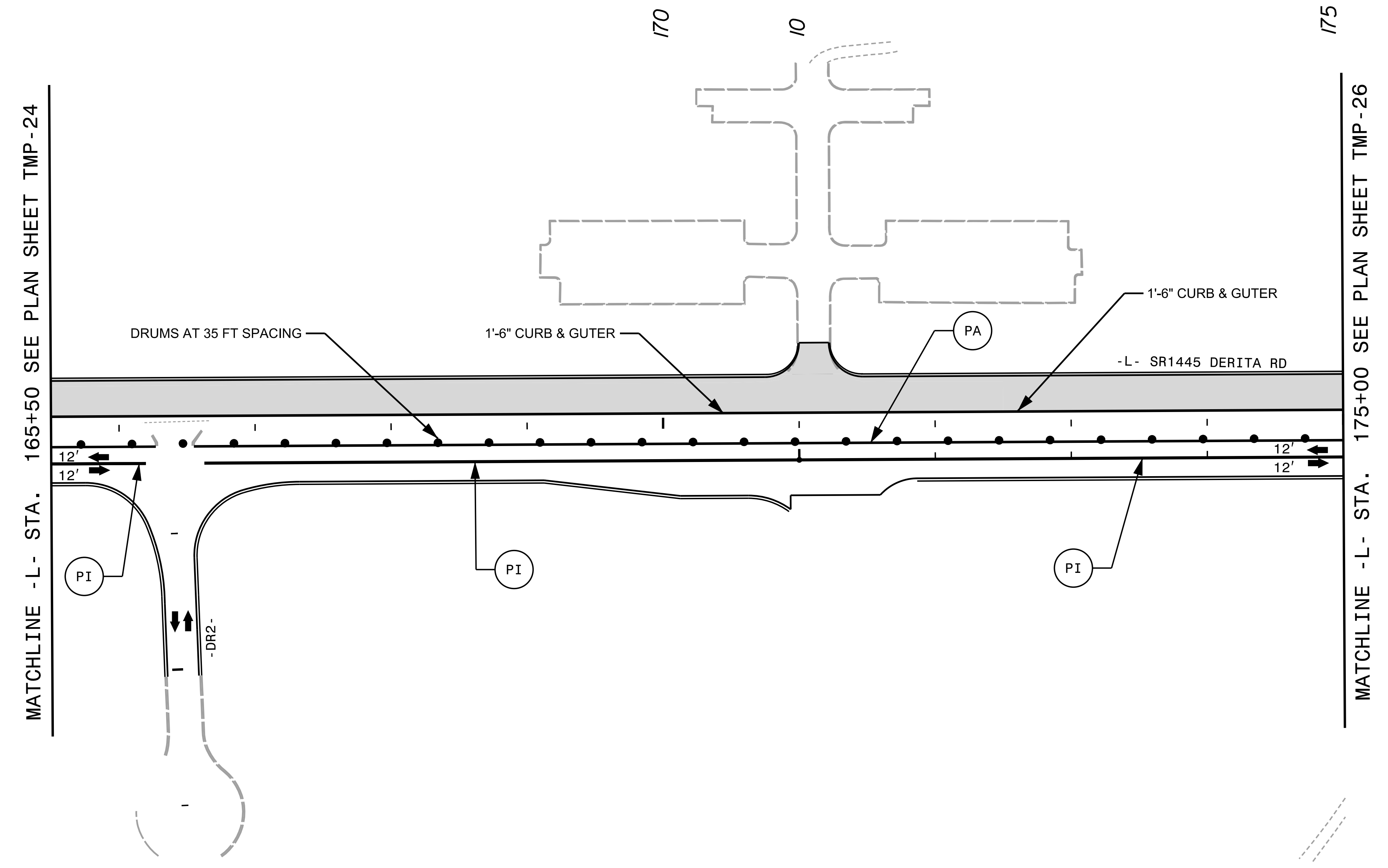
APPROVED: *Jeff Keany*
 DATE: 9/27/2016

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PHASE II - DETAIL 5

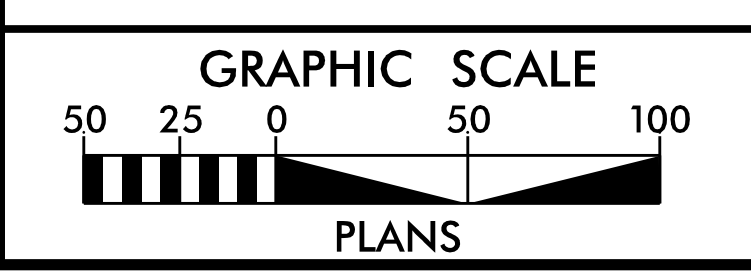


MATCHLINE - L- STA. 165+50 SEE PLAN SHEET TMP-24

MATCHLINE - L- STA. 175+00 SEE PLAN SHEET TMP-26

LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



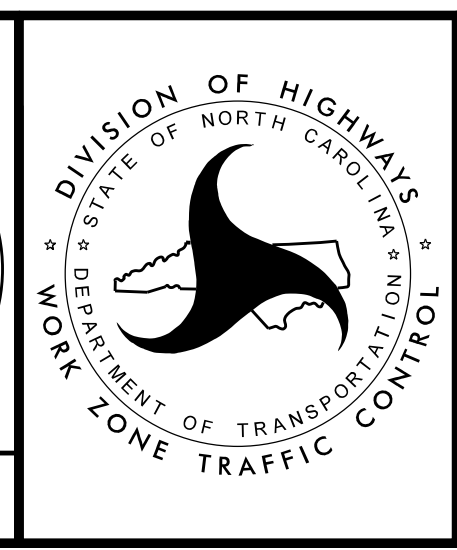
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 Suite 475 Raleigh, NC 27607
 Phone: 919-854-6200

APPROVED: *Jeff Keating*
84EFEC02384F7

DATE: 9/27/2016

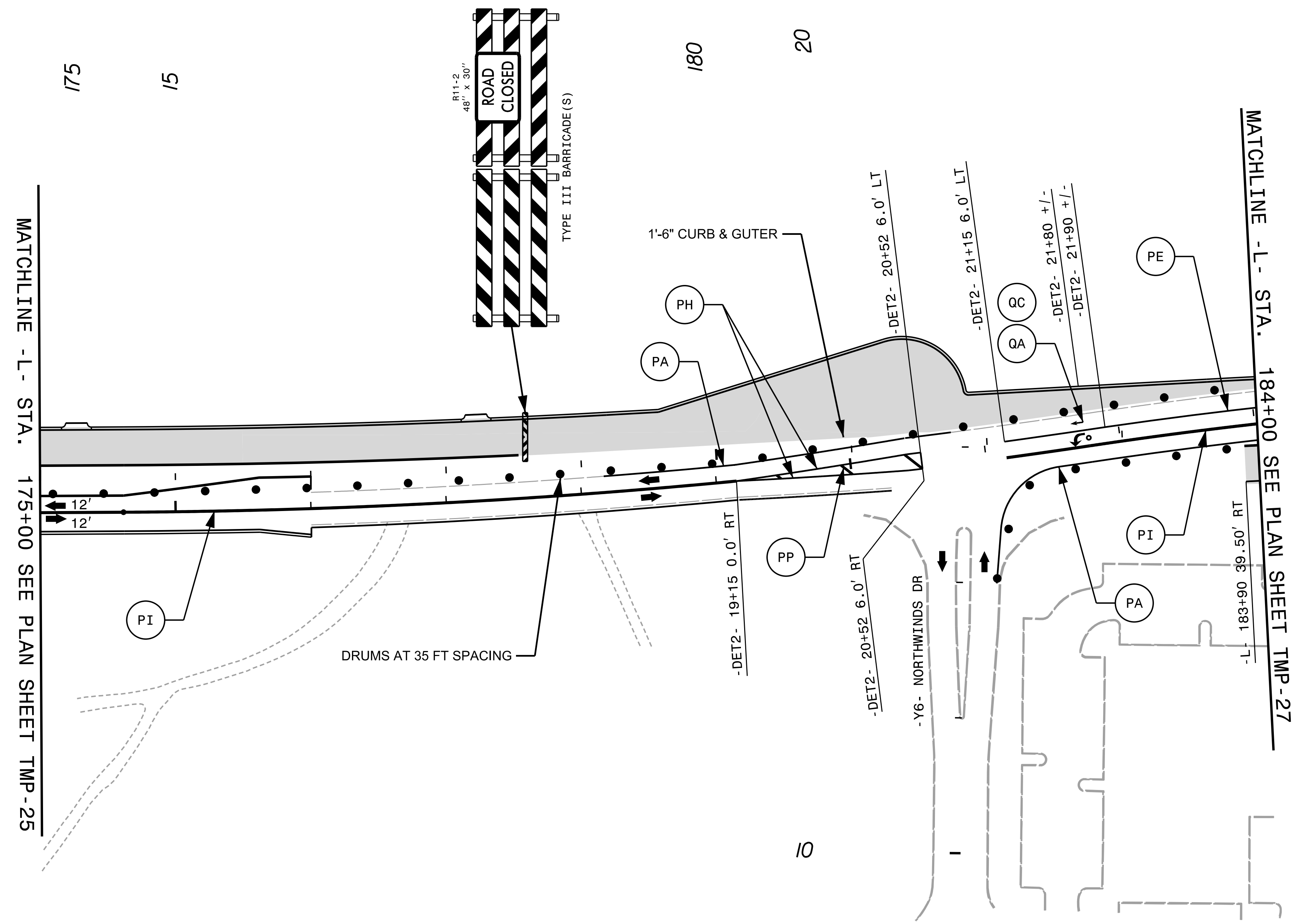
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PHASE II - DETAIL 6

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MATCHLINE - L - STA. 184+00 SEE PLAN SHEET TMP-27

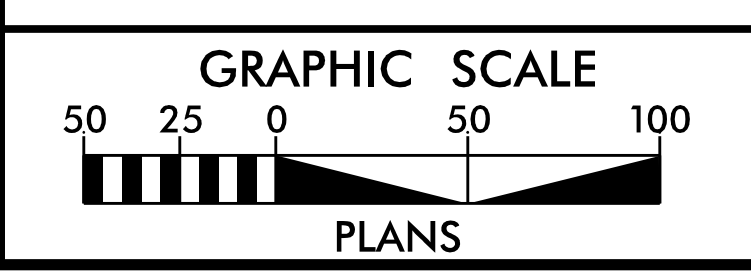
MATCHLINE - L - STA. 175+00 SEE PLAN SHEET TMP-25

SEE ROADWAY PLANS FOR -DET2- DETAILS

LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS

EXISTING PROPOSED TEMPORARY



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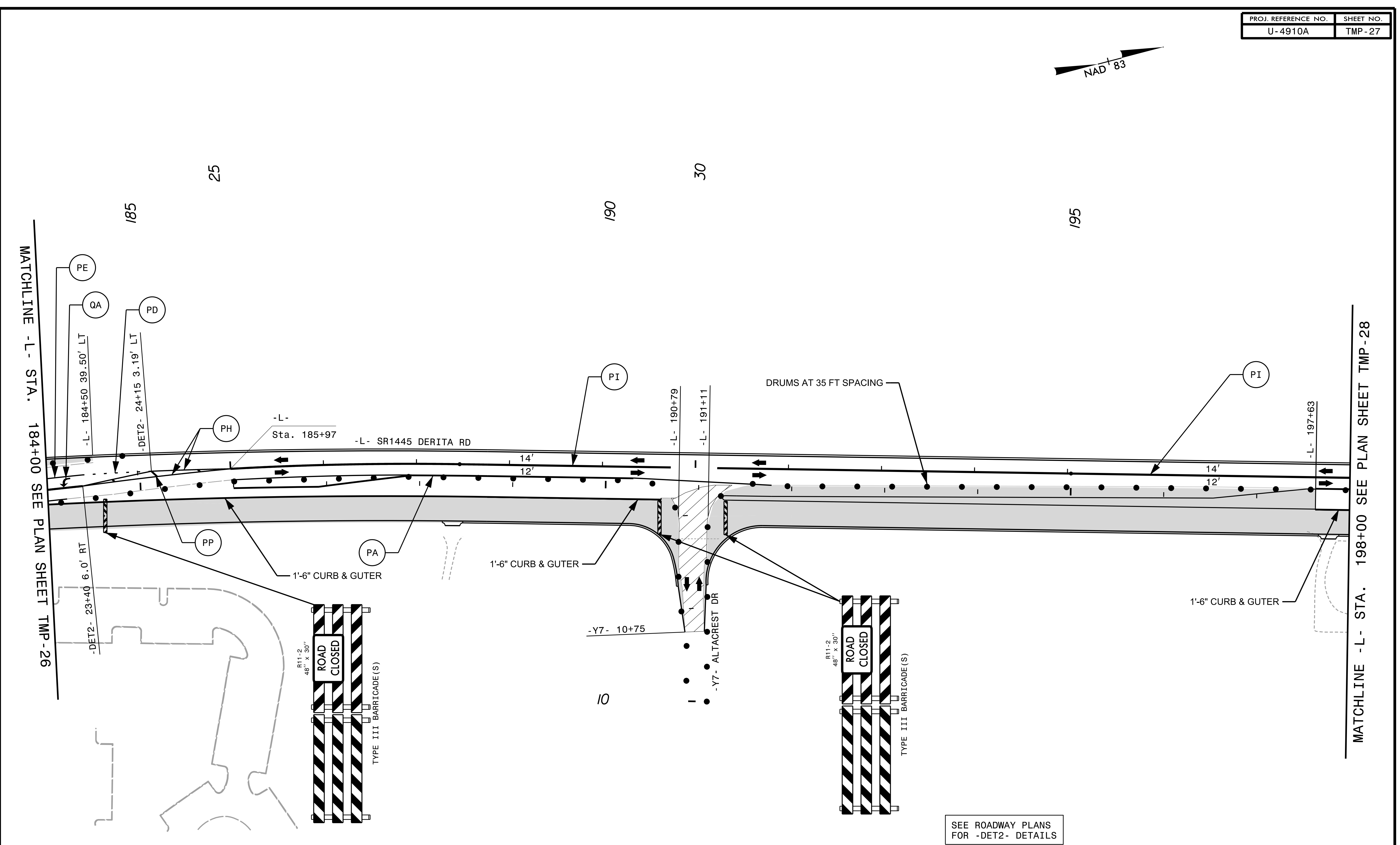
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PHASE II - DETAIL 7

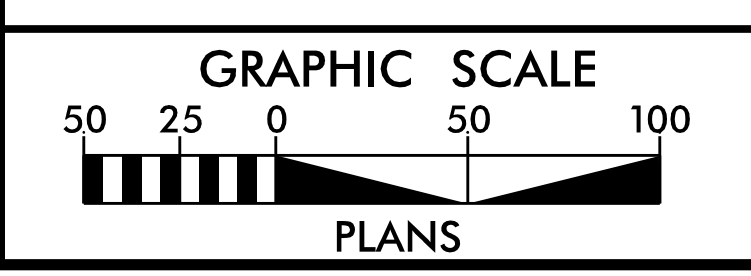
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LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS

EXISTING PROPOSED TEMPORARY



SEE ROADWAY PLANS
FOR -DET2- DETAILS

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44E8FECC02384F7

DATE: 9/27/2016

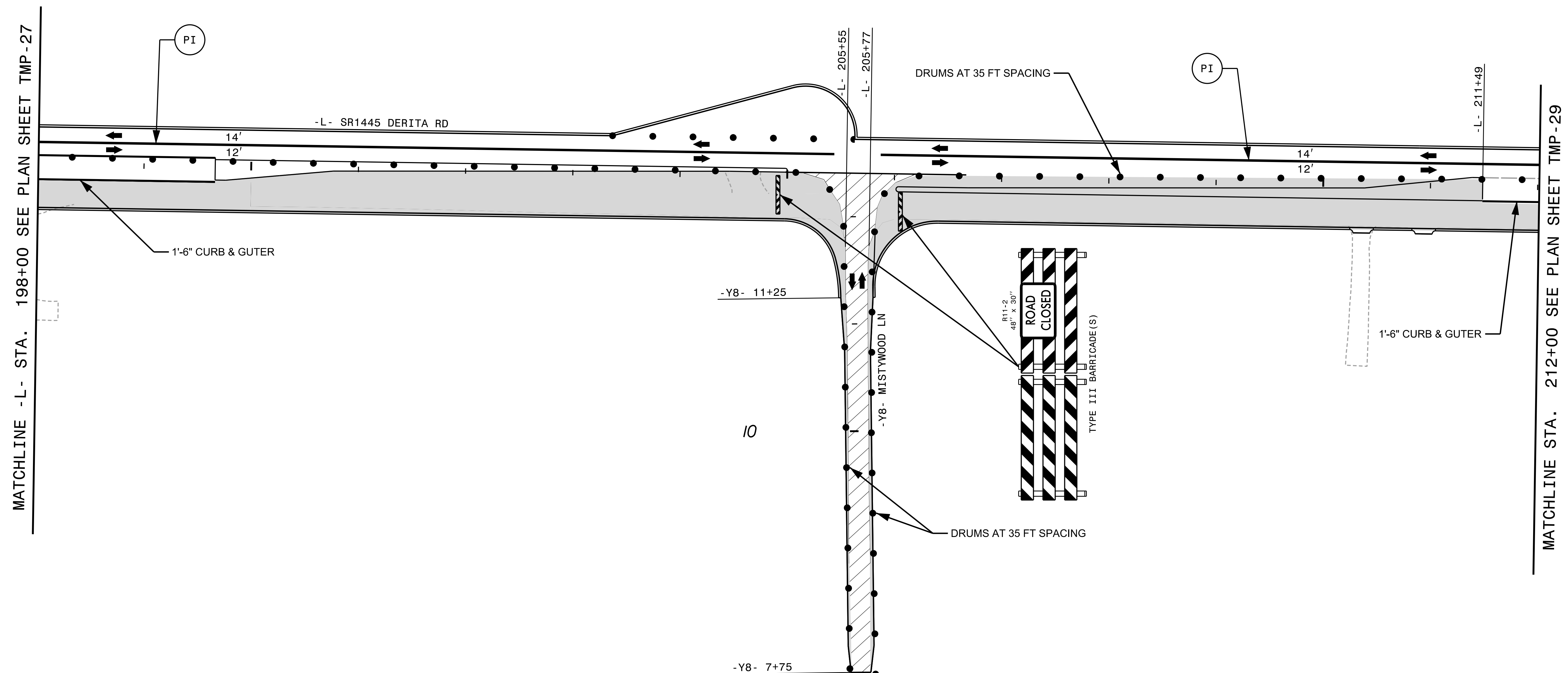
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PHASE II - DETAIL 8

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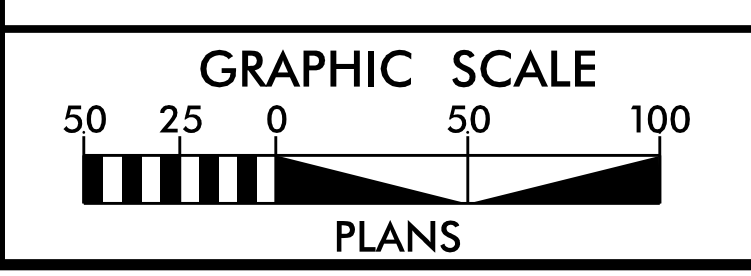


MATCHLINE -L- STA. 198+00 SEE PLAN SHEET TMP-27

MATCHLINE STA. 212+00 SEE PLAN SHEET TMP-29

LEGEND

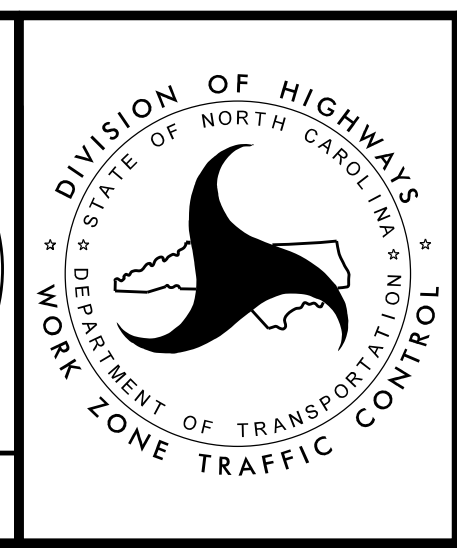
- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS
- EXISTING
- PROPOSED
- TEMPORARY



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DATE: 9/27/2016

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PHASE II - DETAIL 5

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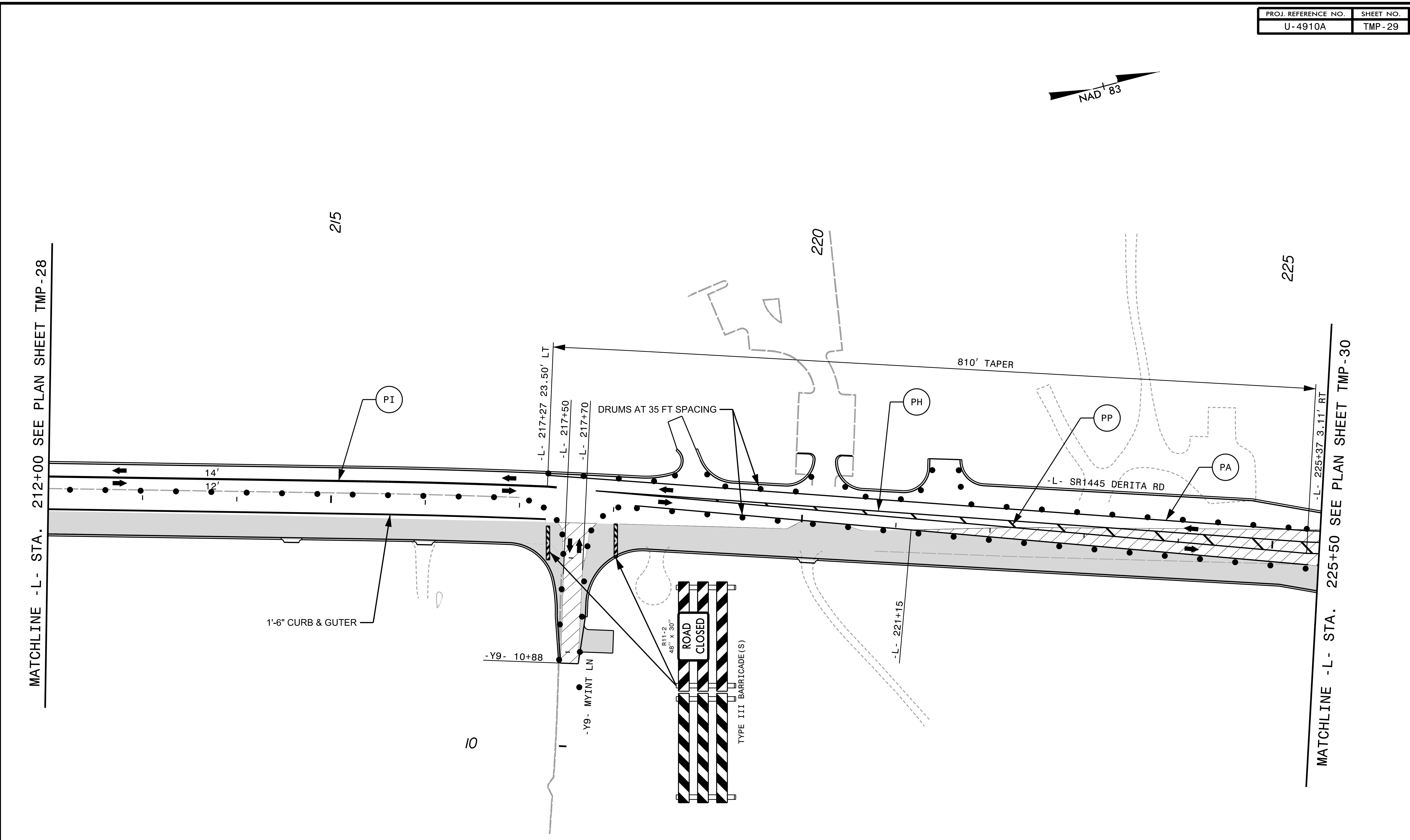
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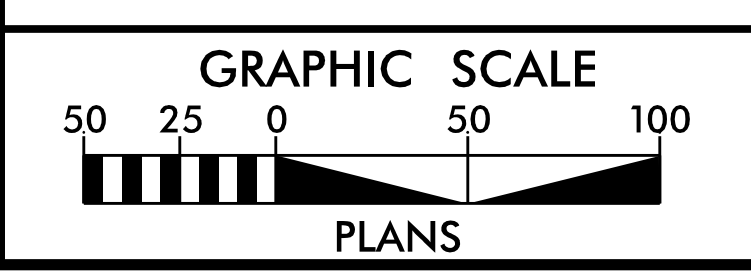
MATCHLINE - L- STA. 212+00 SEE PLAN SHEET TMP-28

MATCHLINE - L- STA. 225+50 SEE PLAN SHEET TMP-30



LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



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DATE: 9/27/2016

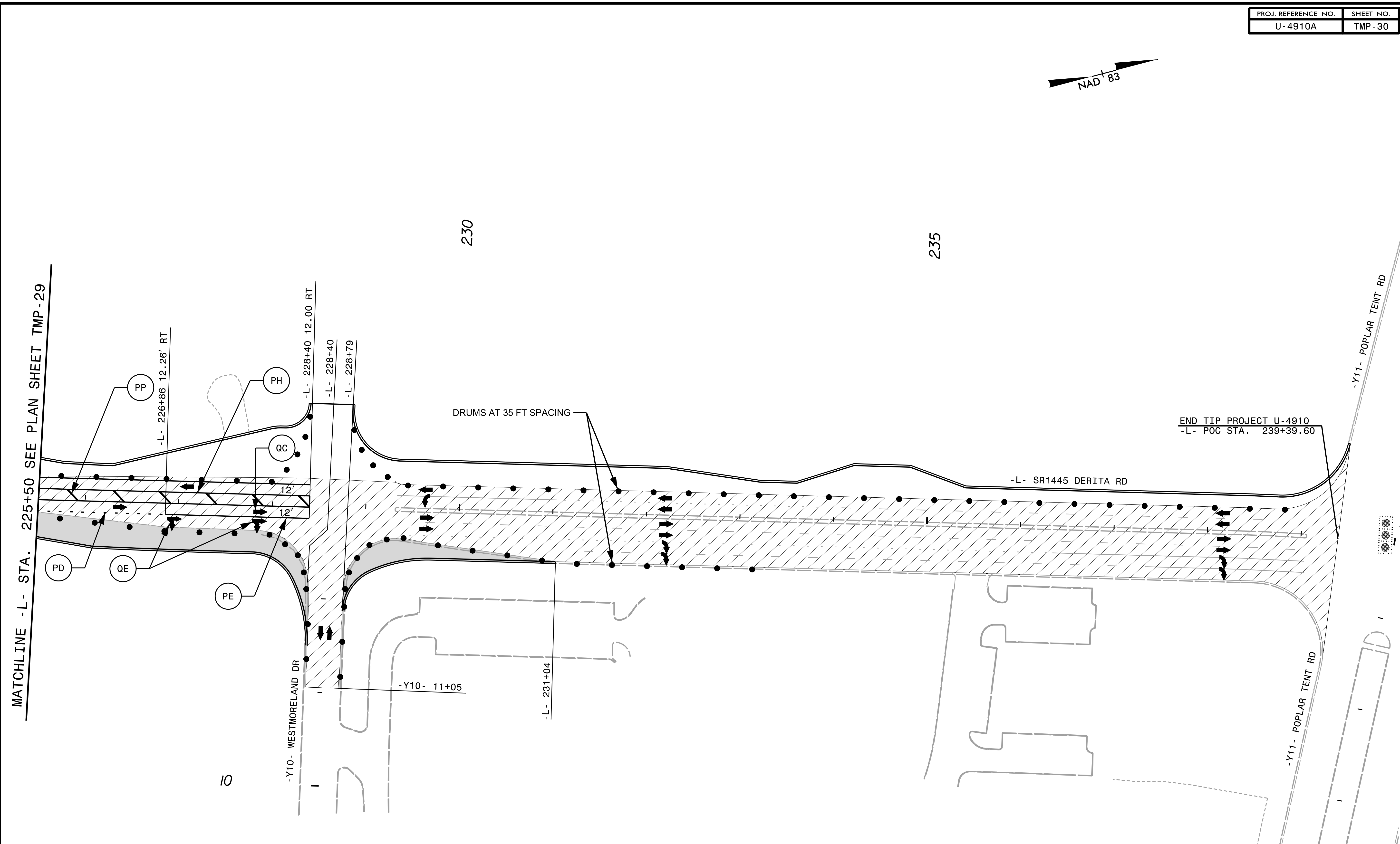
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PHASE II - DETAIL 10

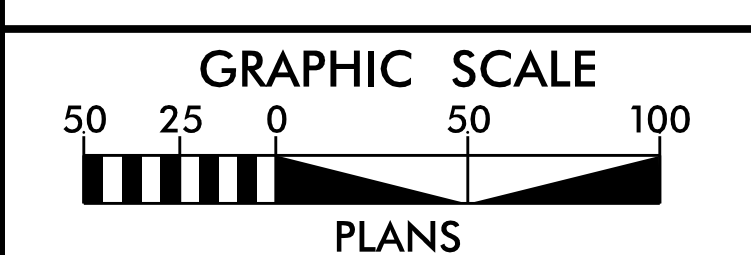
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LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY

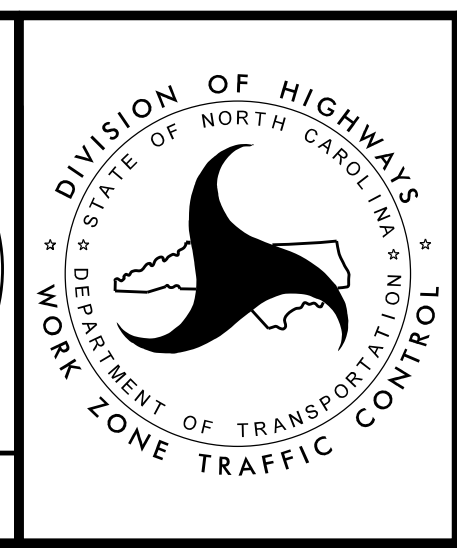


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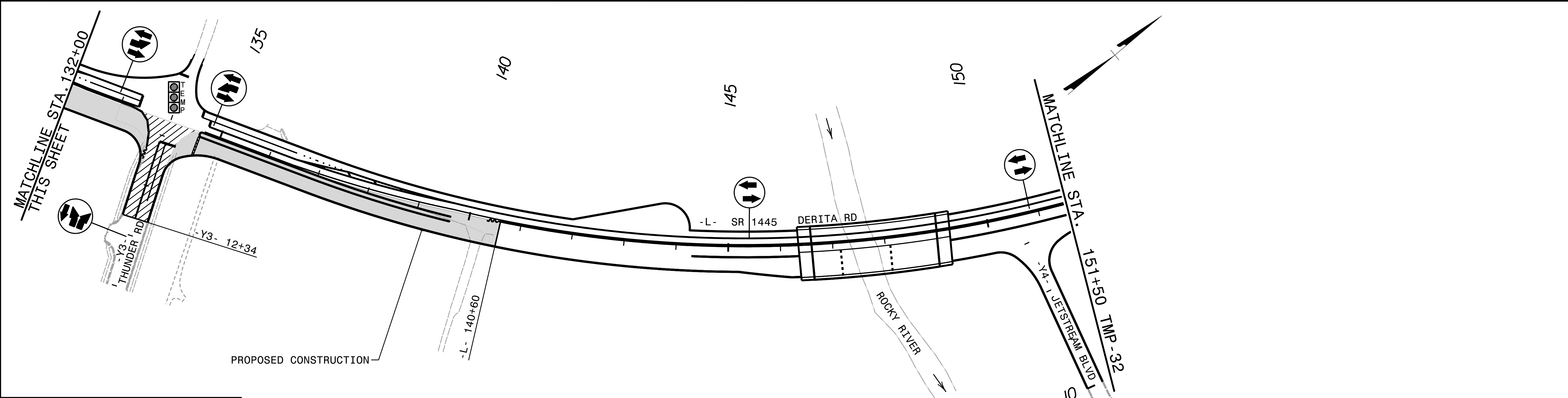
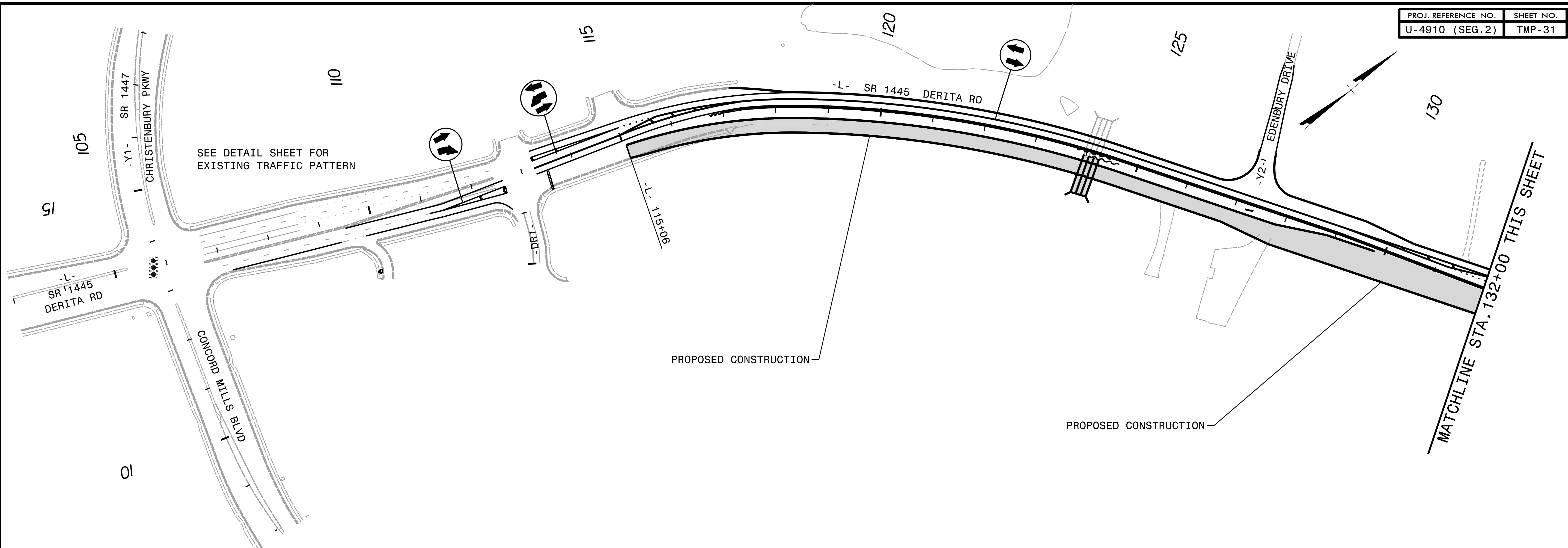
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PHASE II - DETAIL 11

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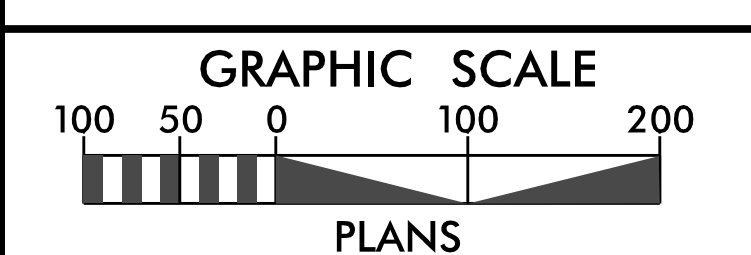


LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY



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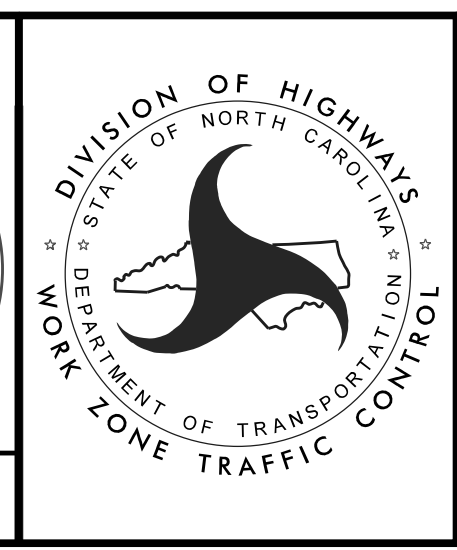
APPROVED: *Jeff Keating*
848FEC02384F7

DATE: 9/27/2016

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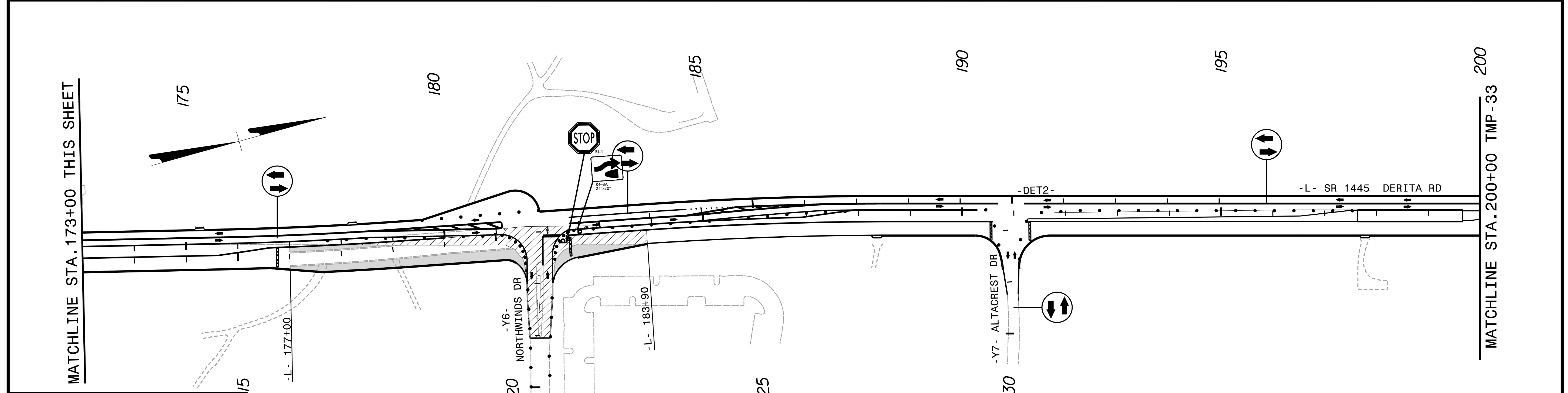
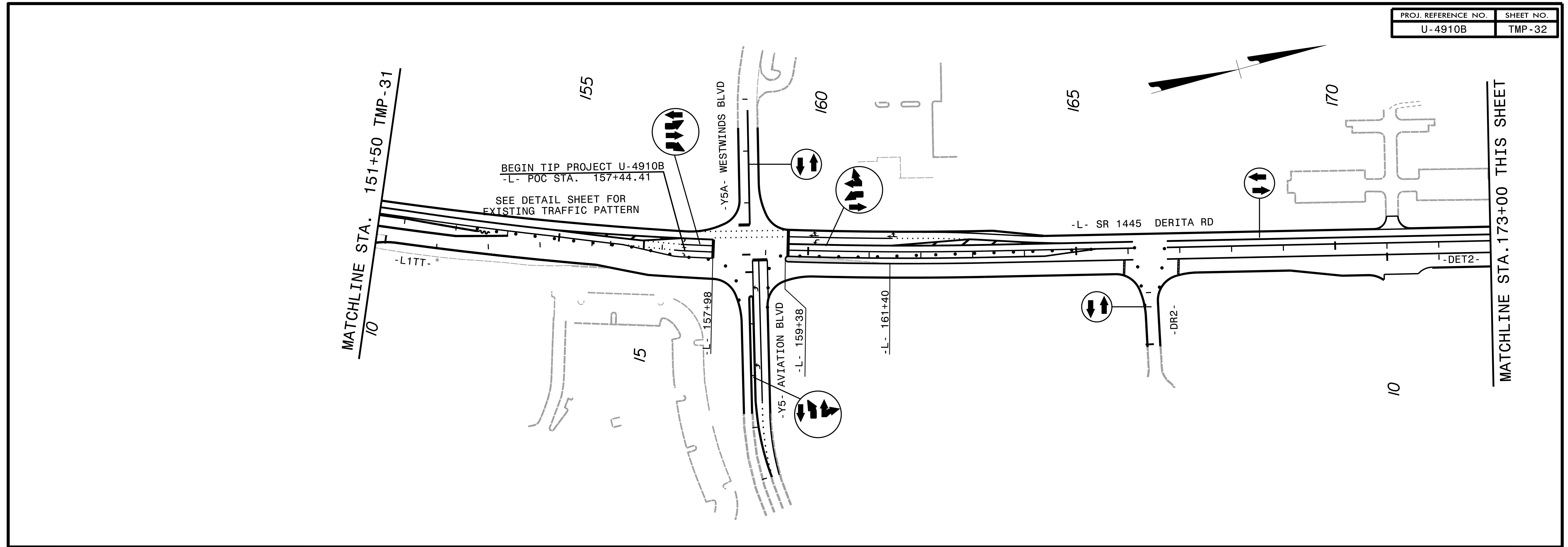
SEAL
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 18122
 ENGINEER
 JEFFREY A. KOONZ

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**PHASE III
 OVERVIEW 1**

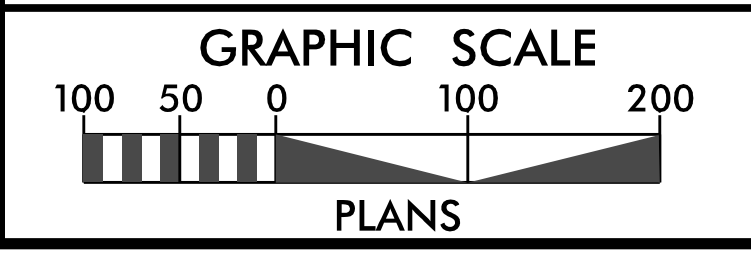
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 bolgind



LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	EXISTING
	PROPOSED
	TEMPORARY

SIGNALS



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APPROVED: *Jeff Keating*
 DATE: 9/27/2016

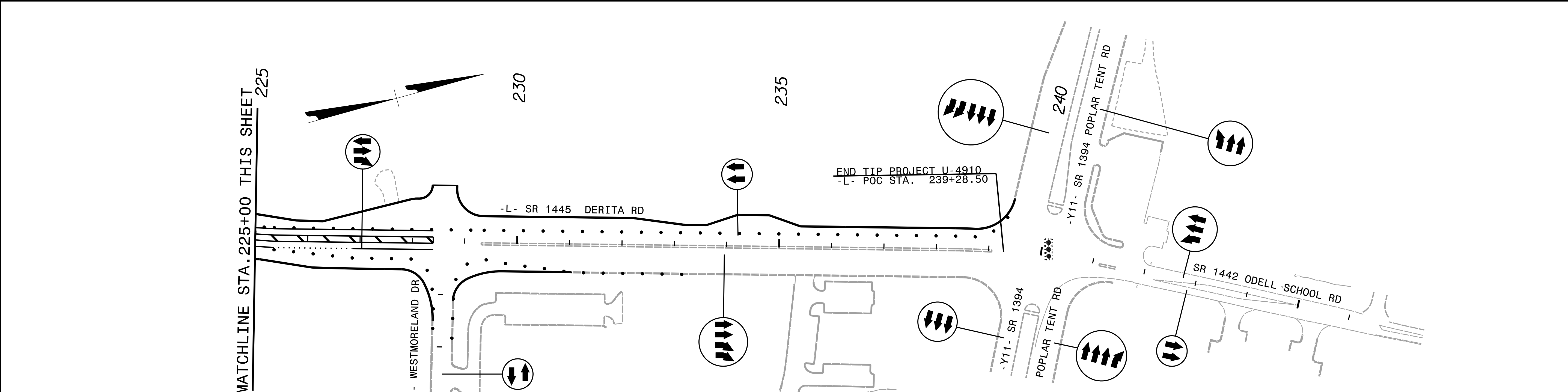
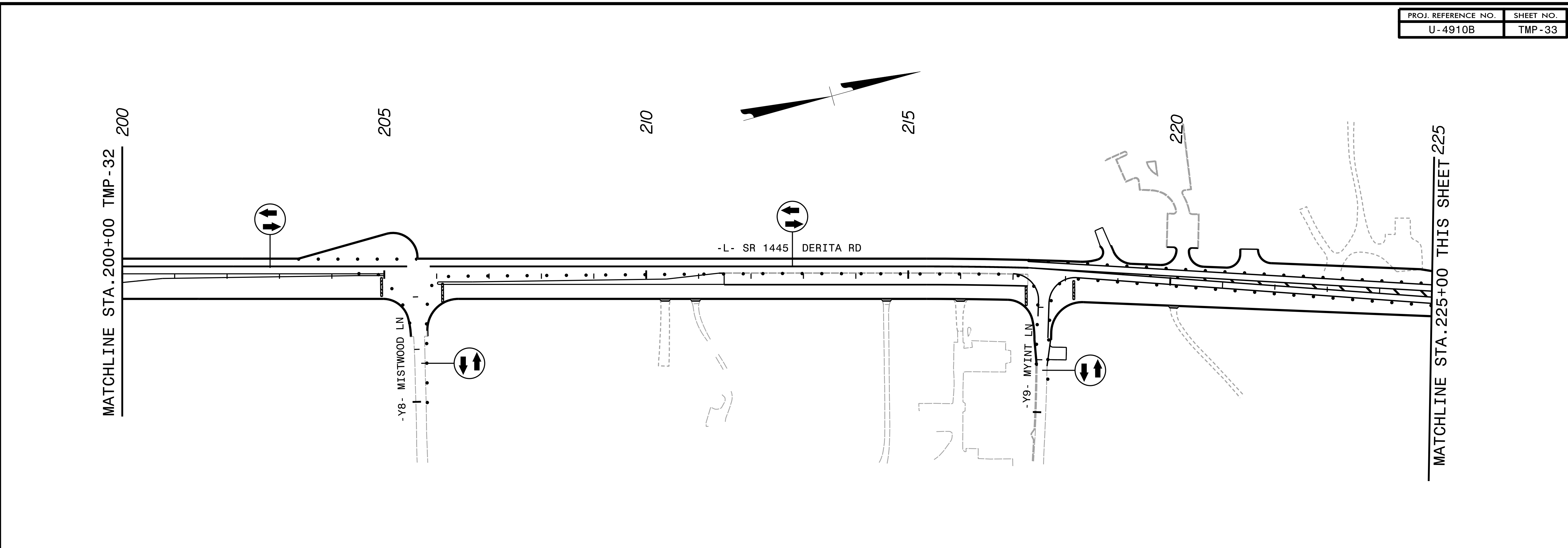
SEAL

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



**PHASE III
 OVERVIEW 2**

9/27/2016 4:37:22 PM
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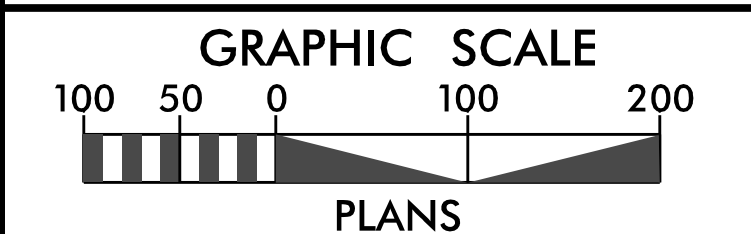


LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY



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44E8FEC02384F7

DATE: 9/27/2016

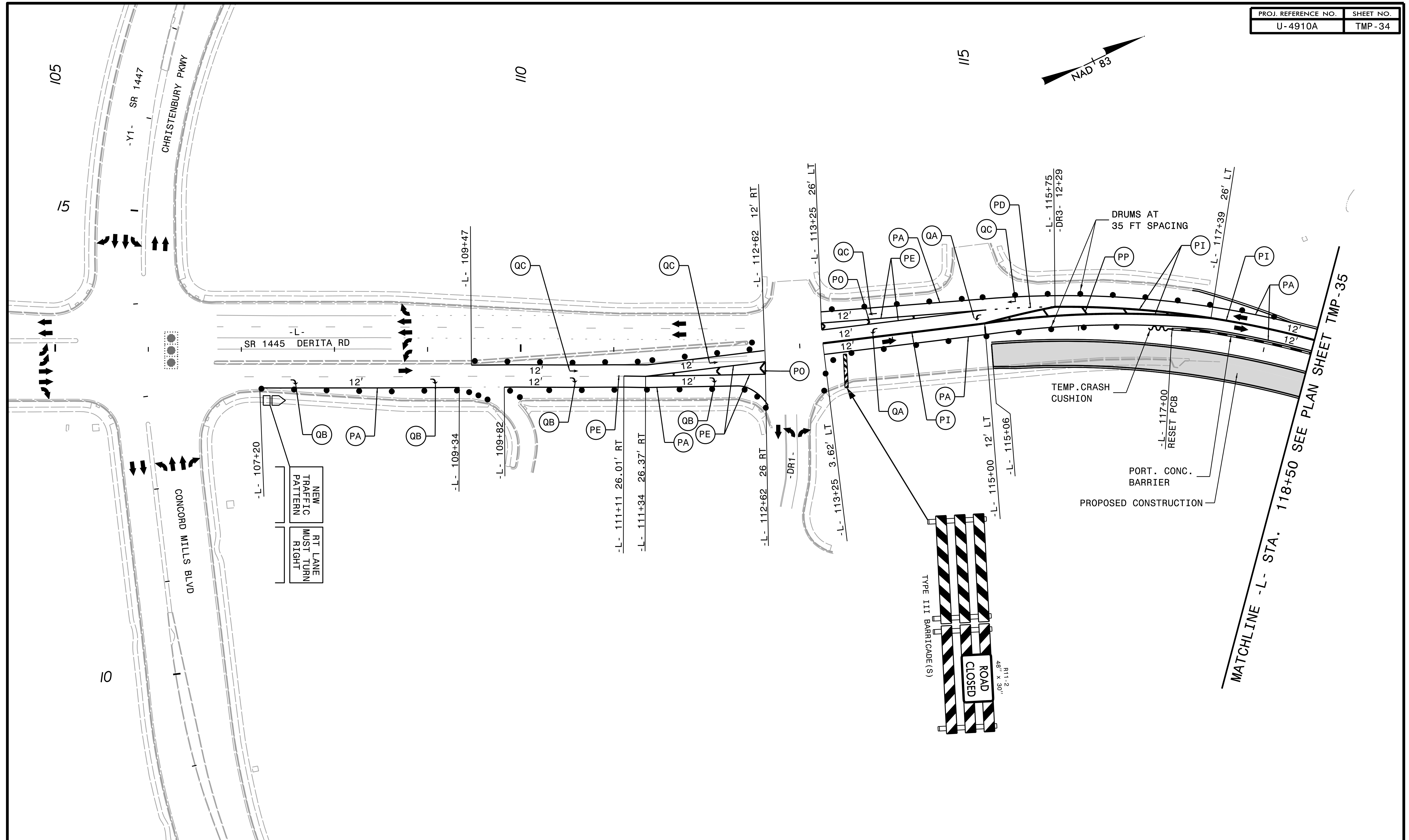
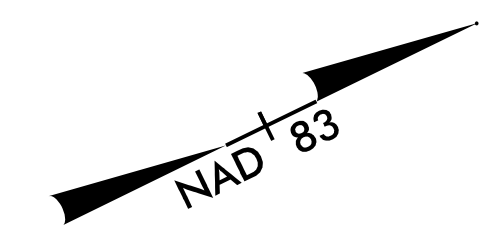
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**PHASE III
 OVERVIEW 3**

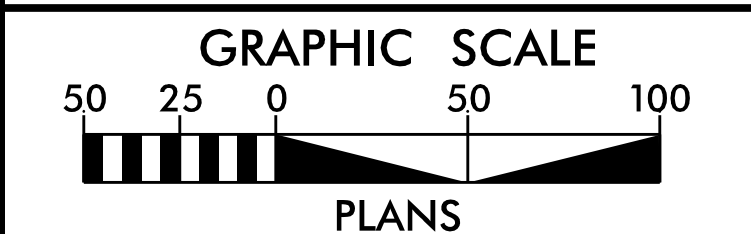
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 baicwlm

LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



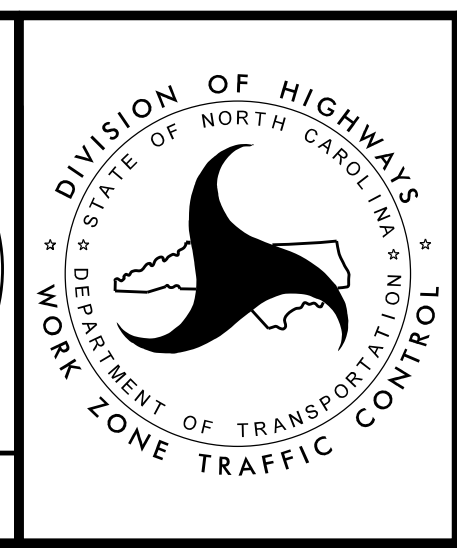
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DATE: 9/27/2016

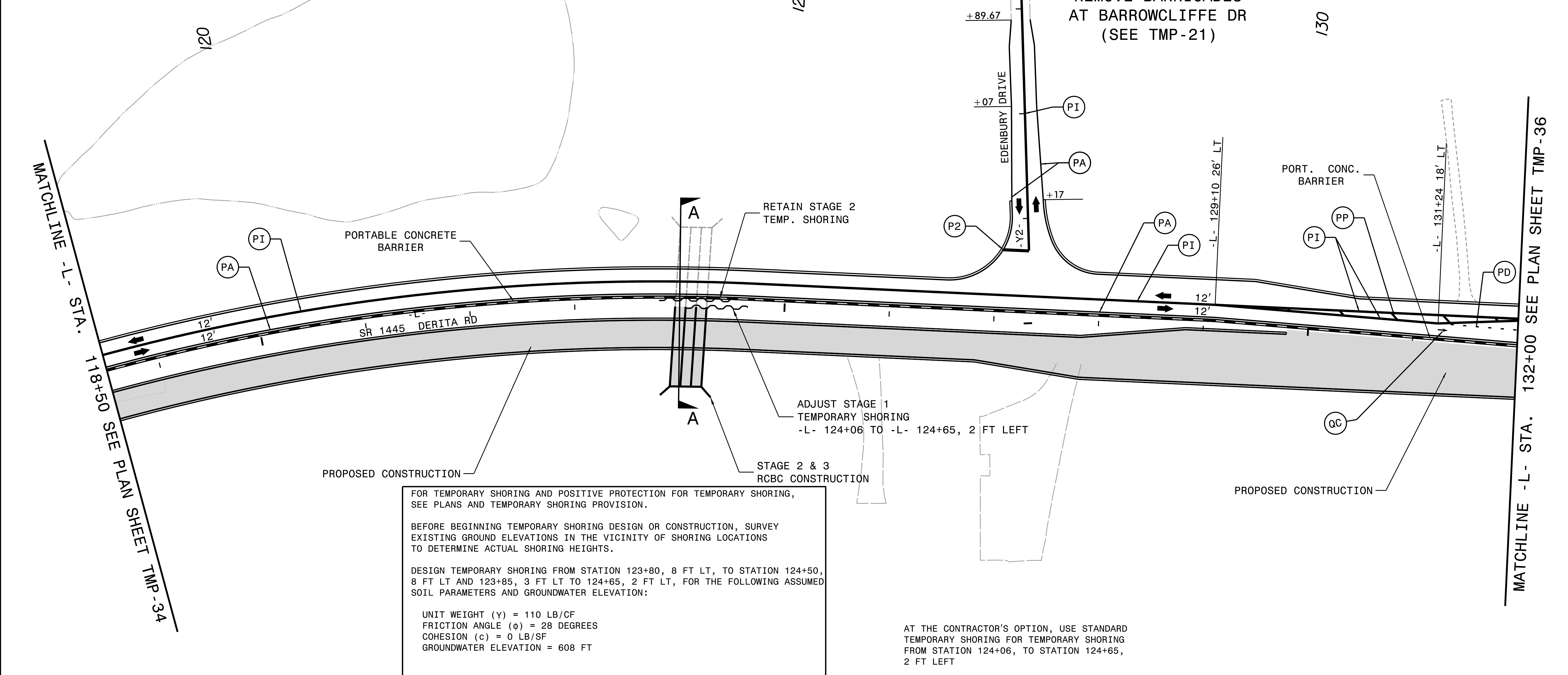
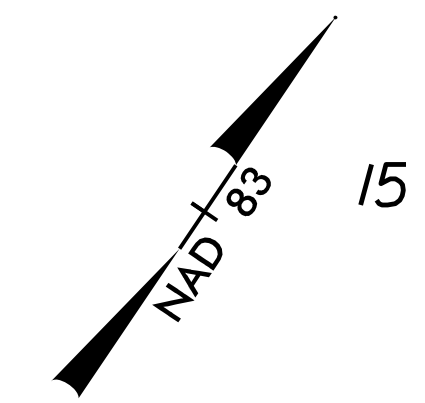
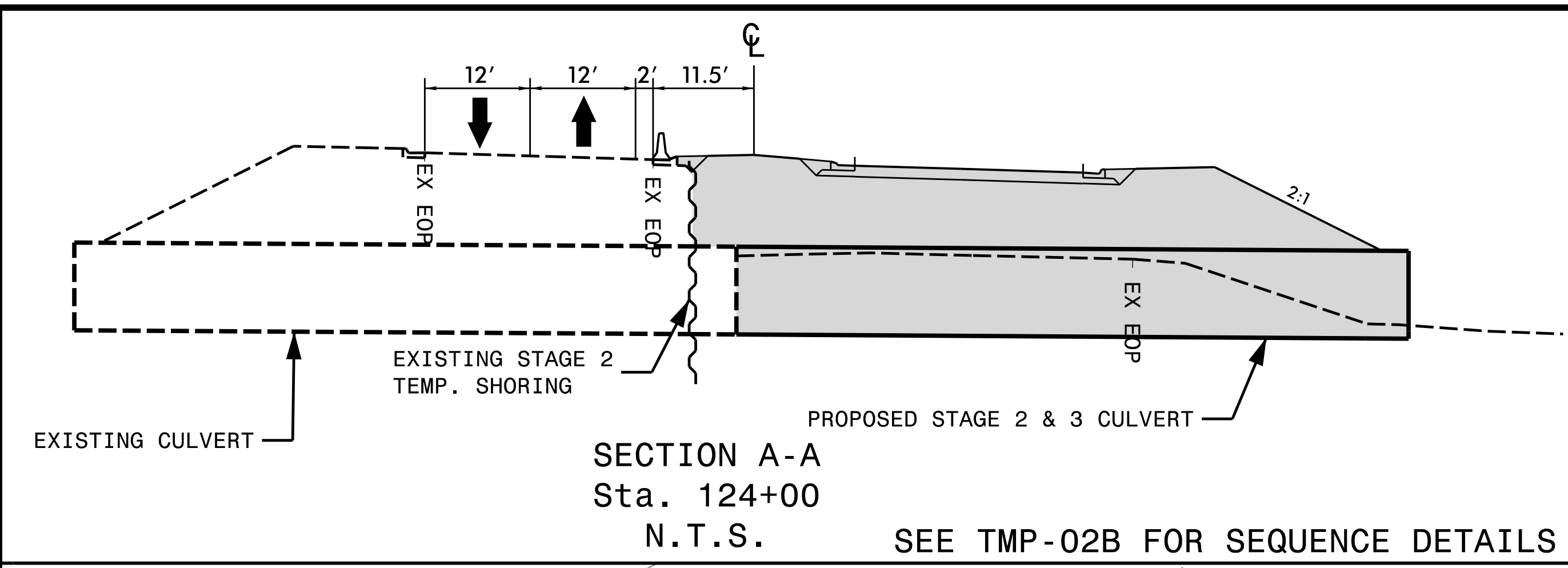
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PHASE III - DETAIL 1

DEPARTMENT OF TRANSPORTATION & WORK ZONE TRAFFIC CONTROL



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 123+80, 8 FT LT, TO STATION 124+50, 8 FT LT AND 123+85, 3 FT LT TO 124+65, 2 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 110 LB/CF
 FRICTION ANGLE (ϕ) = 28 DEGREES
 COHESION (c) = 0 LB/SF
 GROUNDWATER ELEVATION = 608 FT

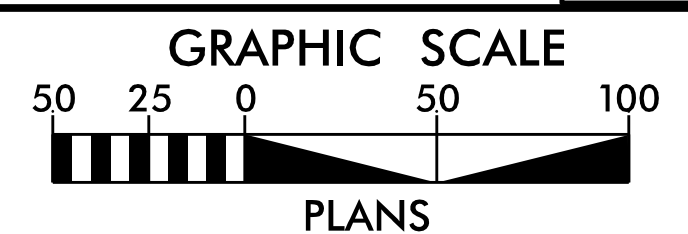
DRIVEN PILING FOR TEMPORARY SHORING FROM 123+80, 8 FT LT, TO STATION 124+50, 8 FT LT AND 123+85, 3 FT LT TO 124+65, 2 FT LT WILL NOT PENETRATE BELOW ELEVATION 595 FT DUE TO WEATHERED OR HARD ROCK.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION 123+80, 8 FT LT, TO STATION 124+50, 8 FT LT AND/OR 123+85, 3 FT LT TO 124+65, 2 FT LT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION 124+06, TO STATION 124+65, 2 FT LEFT

LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS
- EXISTING
- PROPOSED
- TEMPORARY



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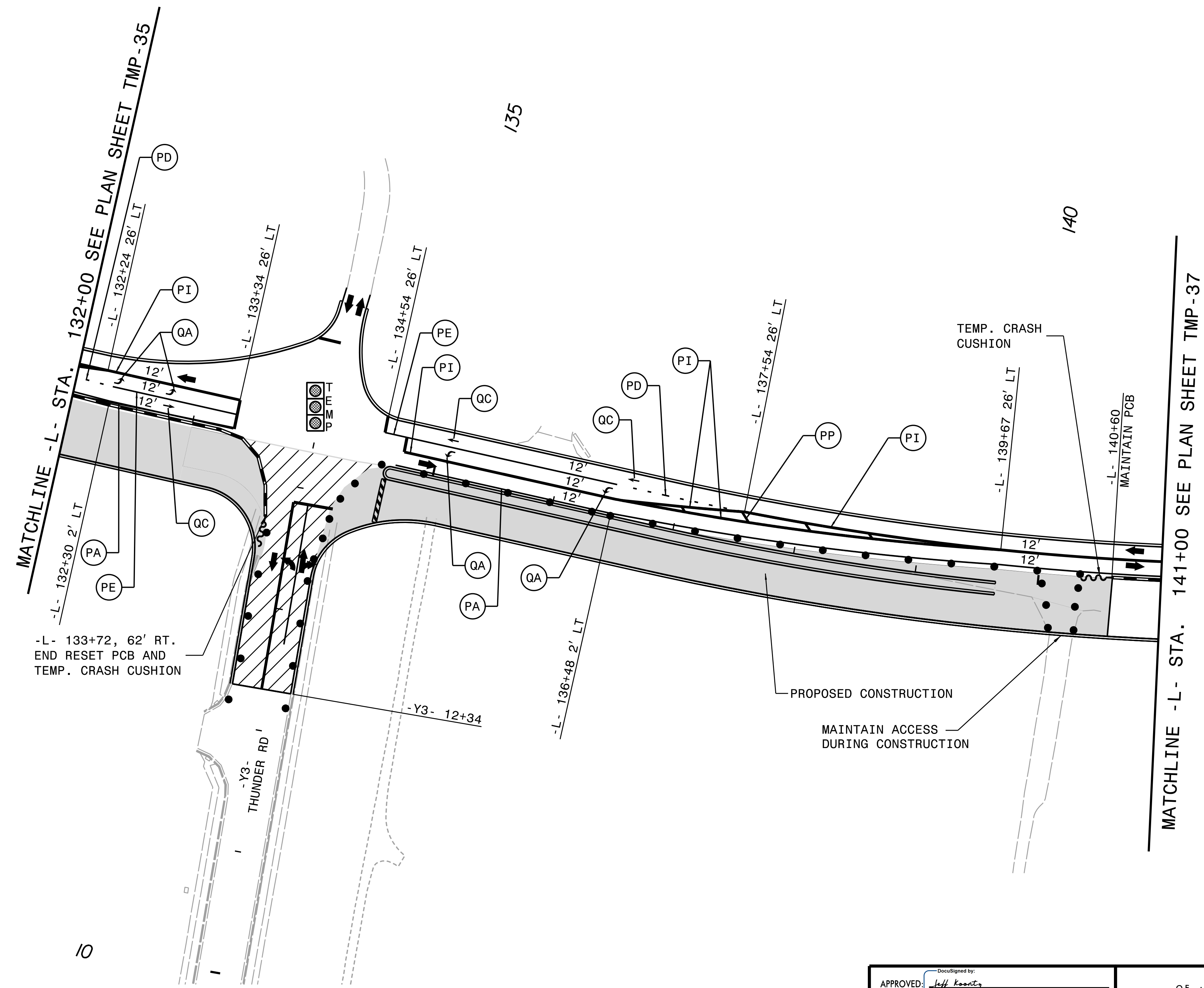
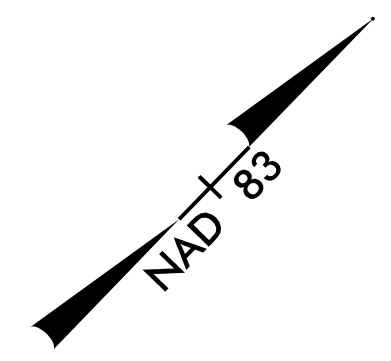
PROFESSIONAL ENGINEER
 SEAL 18122
 JEFFREY A. KOENIG

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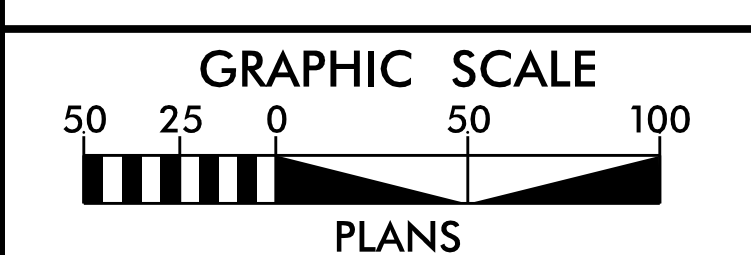
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LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



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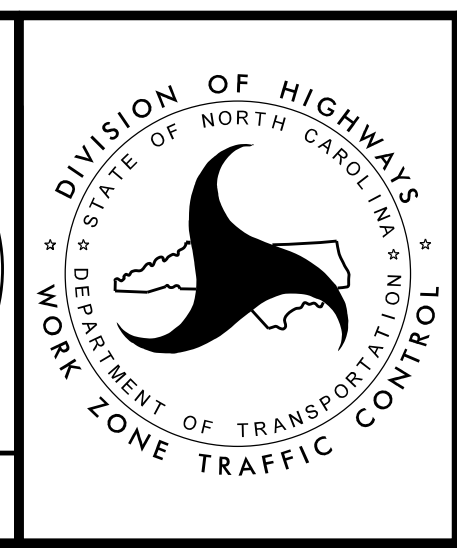
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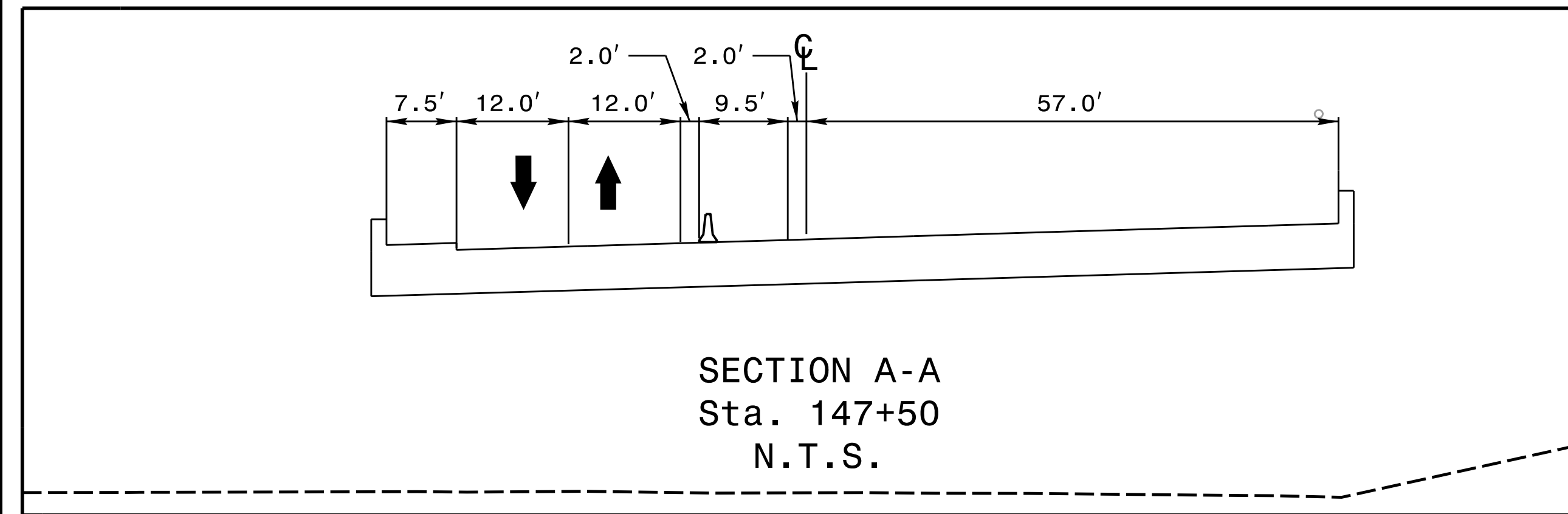
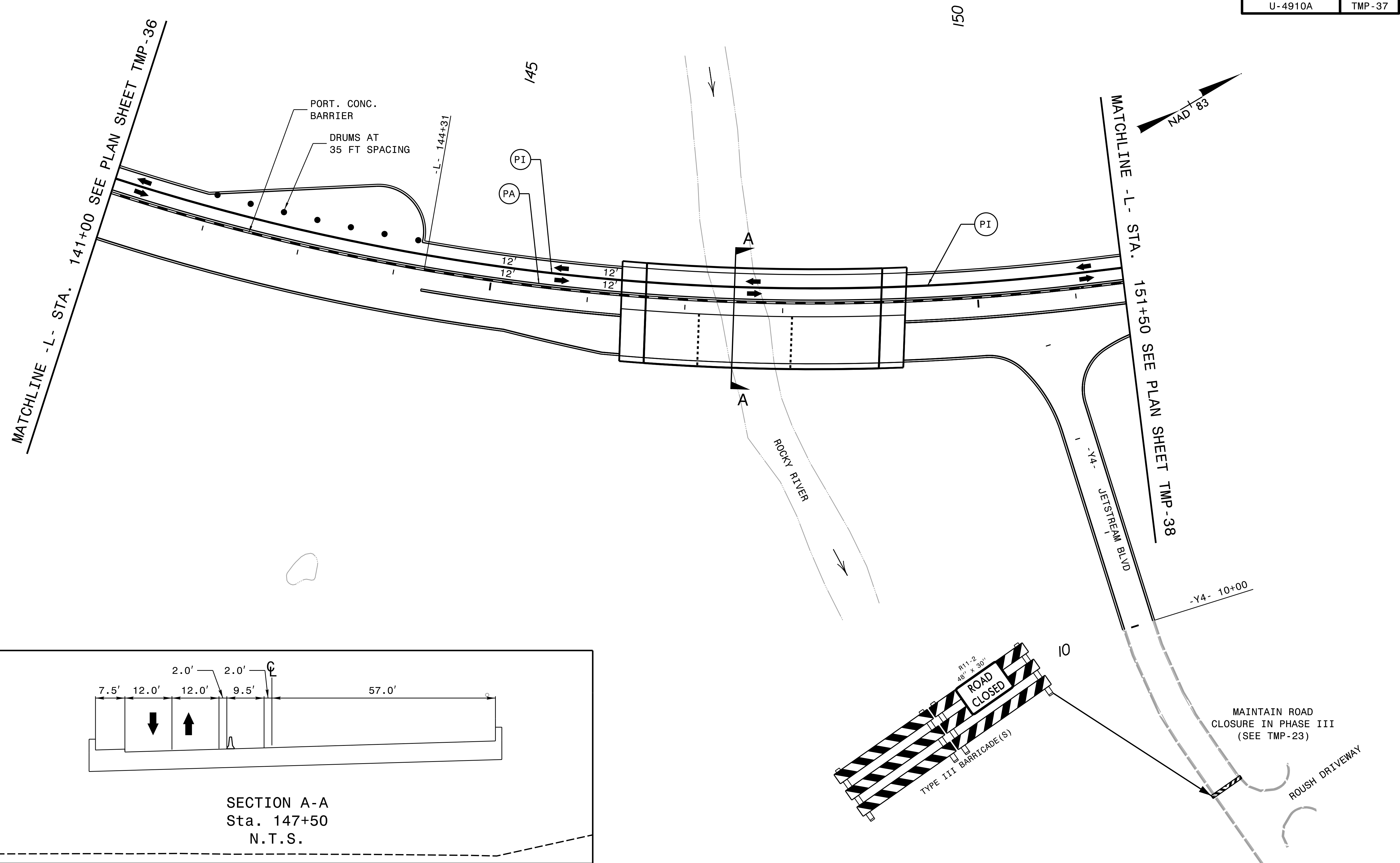
SEAL

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 NORTH CAROLINA
 PROFESSIONAL ENGINEER
 18122
 JEFFREY A. KOONZ

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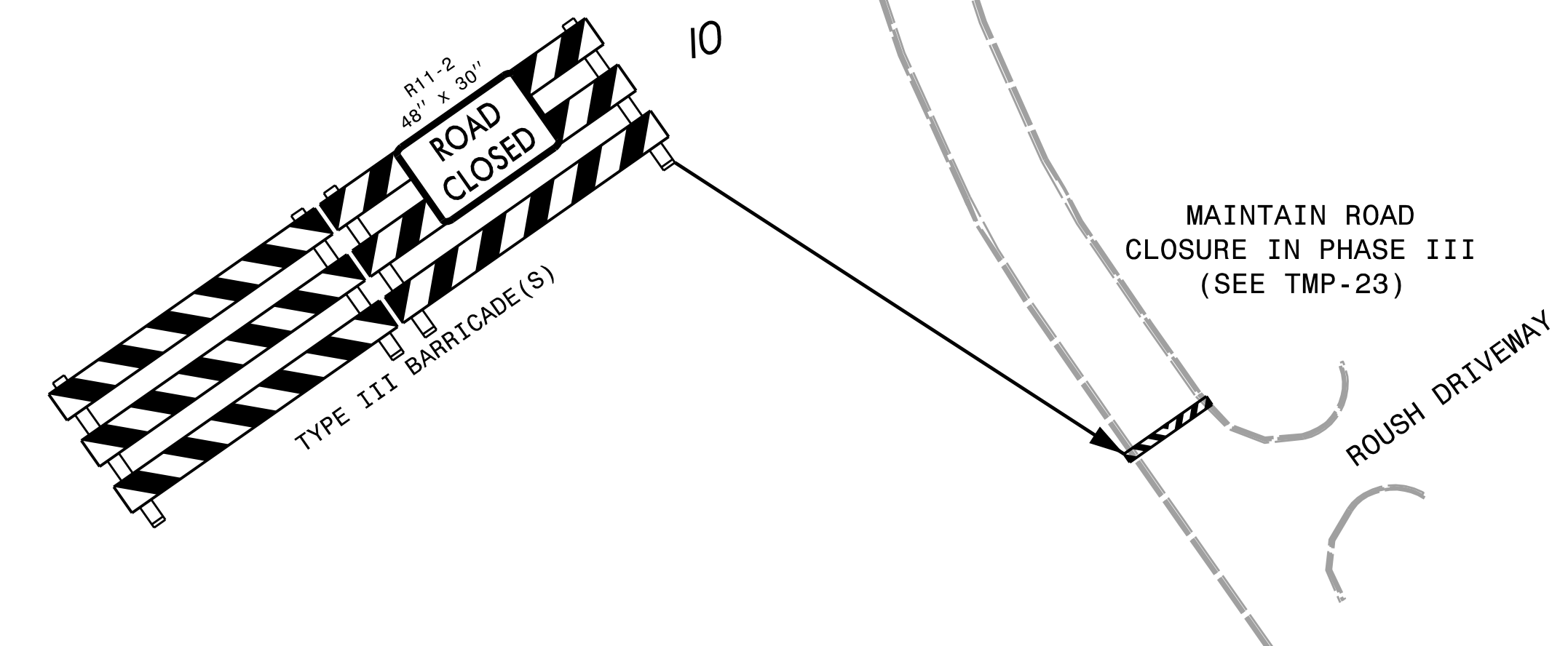
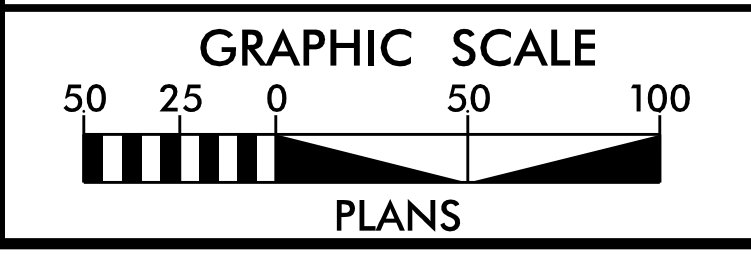


PHASE III - DETAIL 3



LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



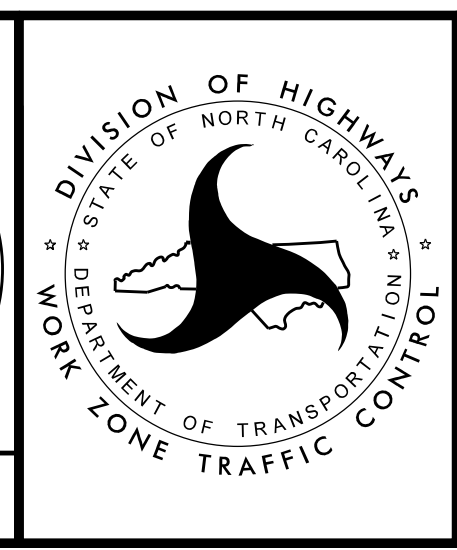
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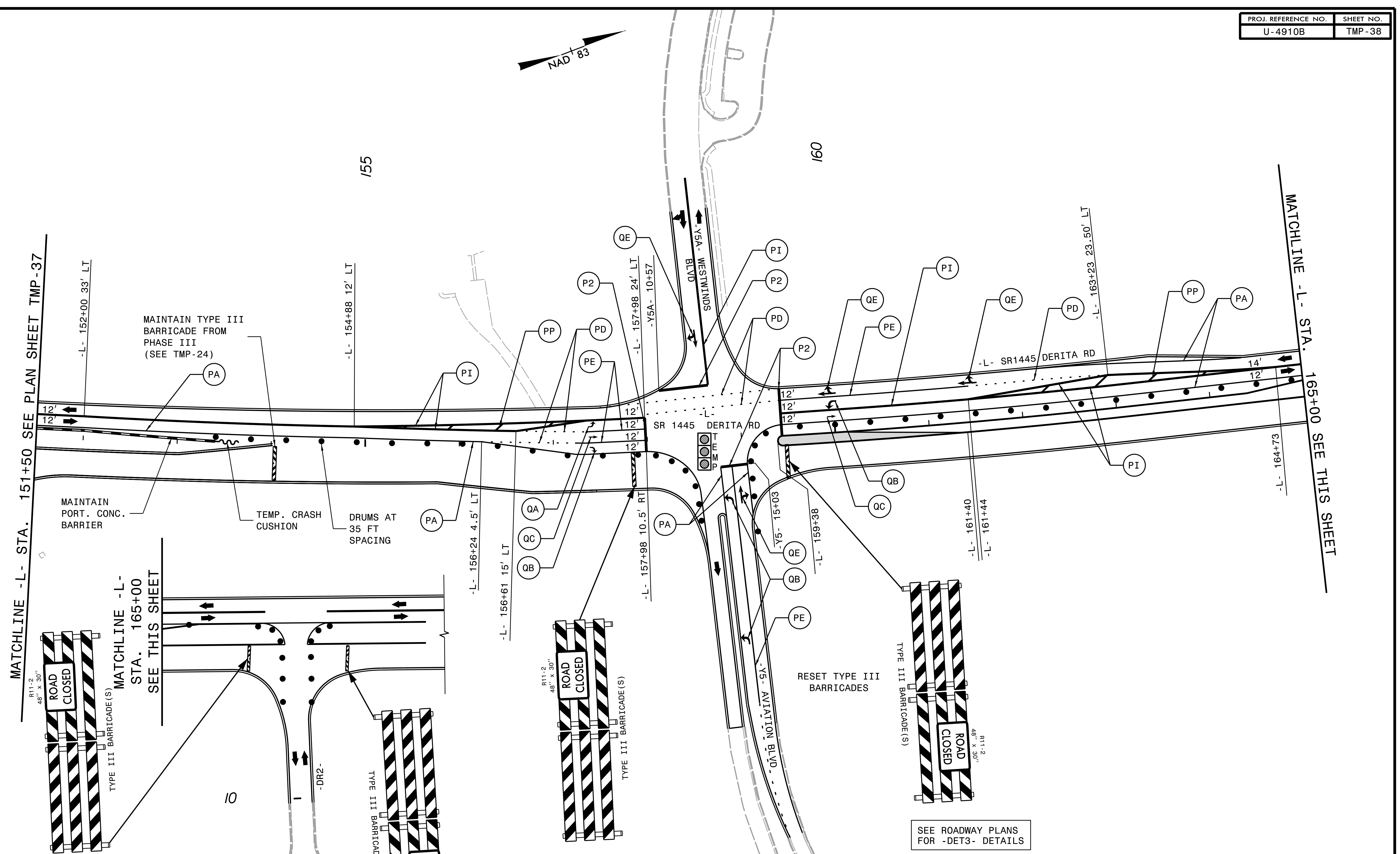
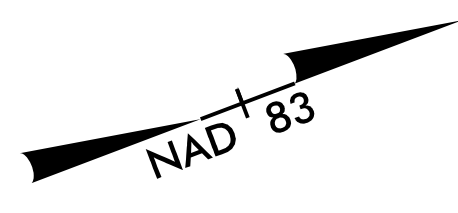
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 DATE: 9/27/2016

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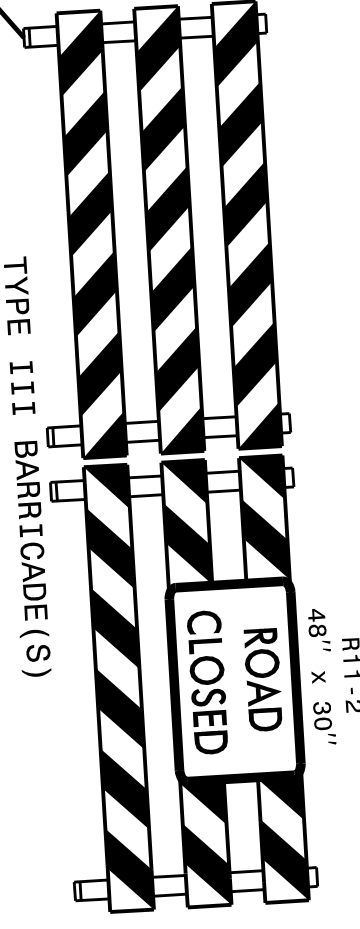
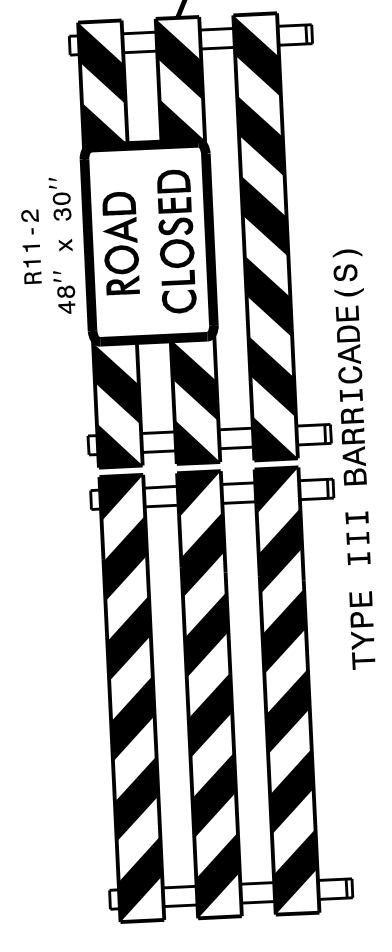
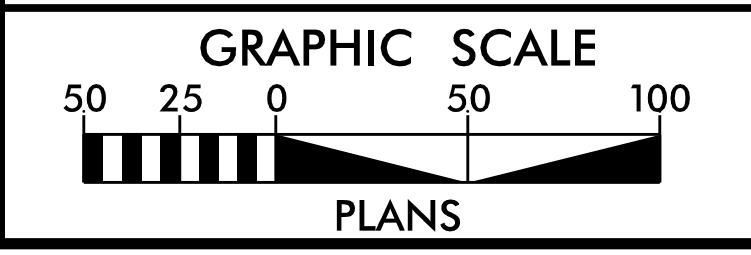


PHASE III - DETAIL 4



LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



SEE ROADWAY PLANS FOR -DET3- DETAILS

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 DATE: 9/27/2016

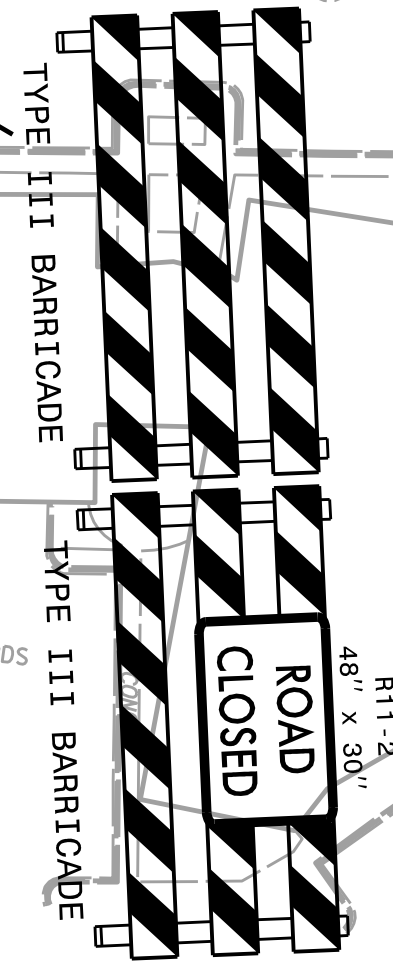
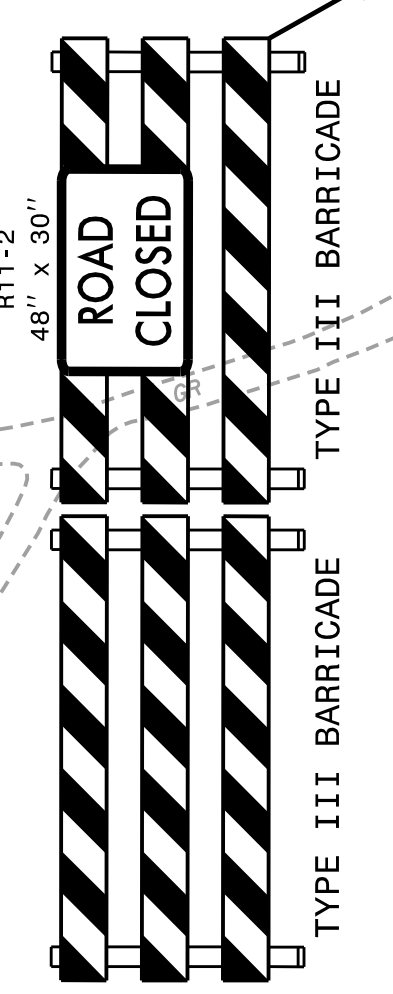
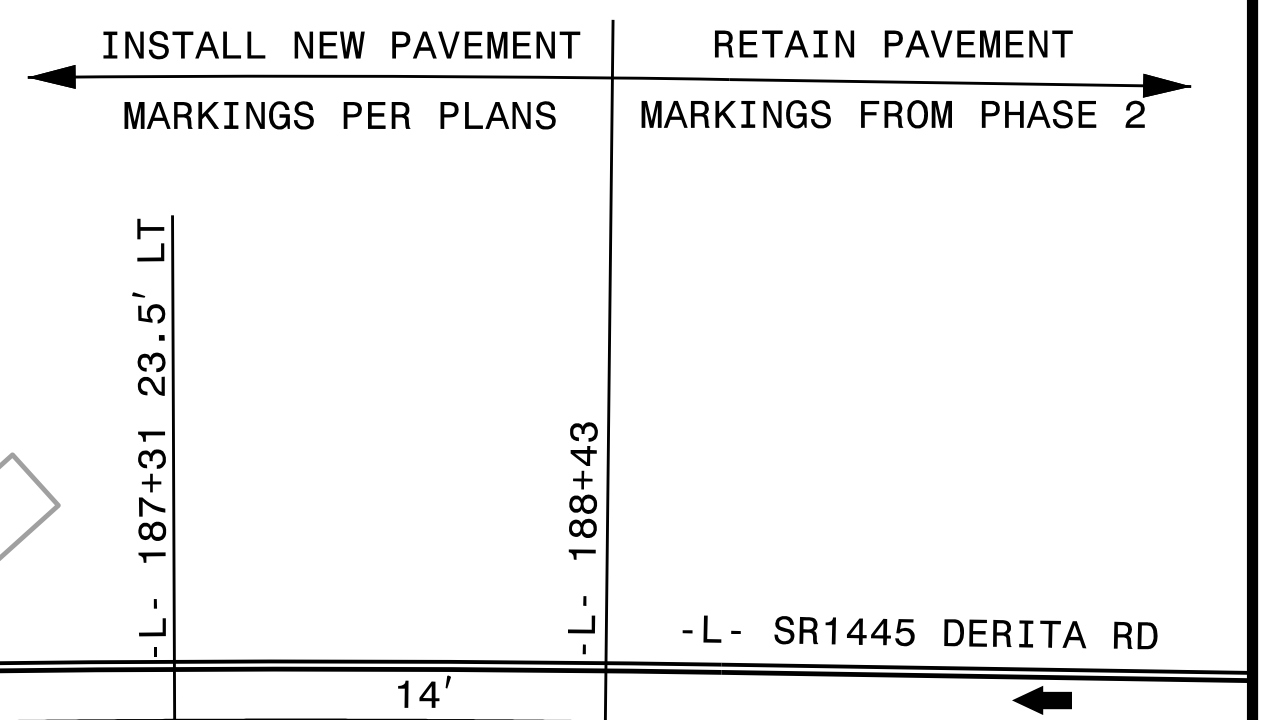
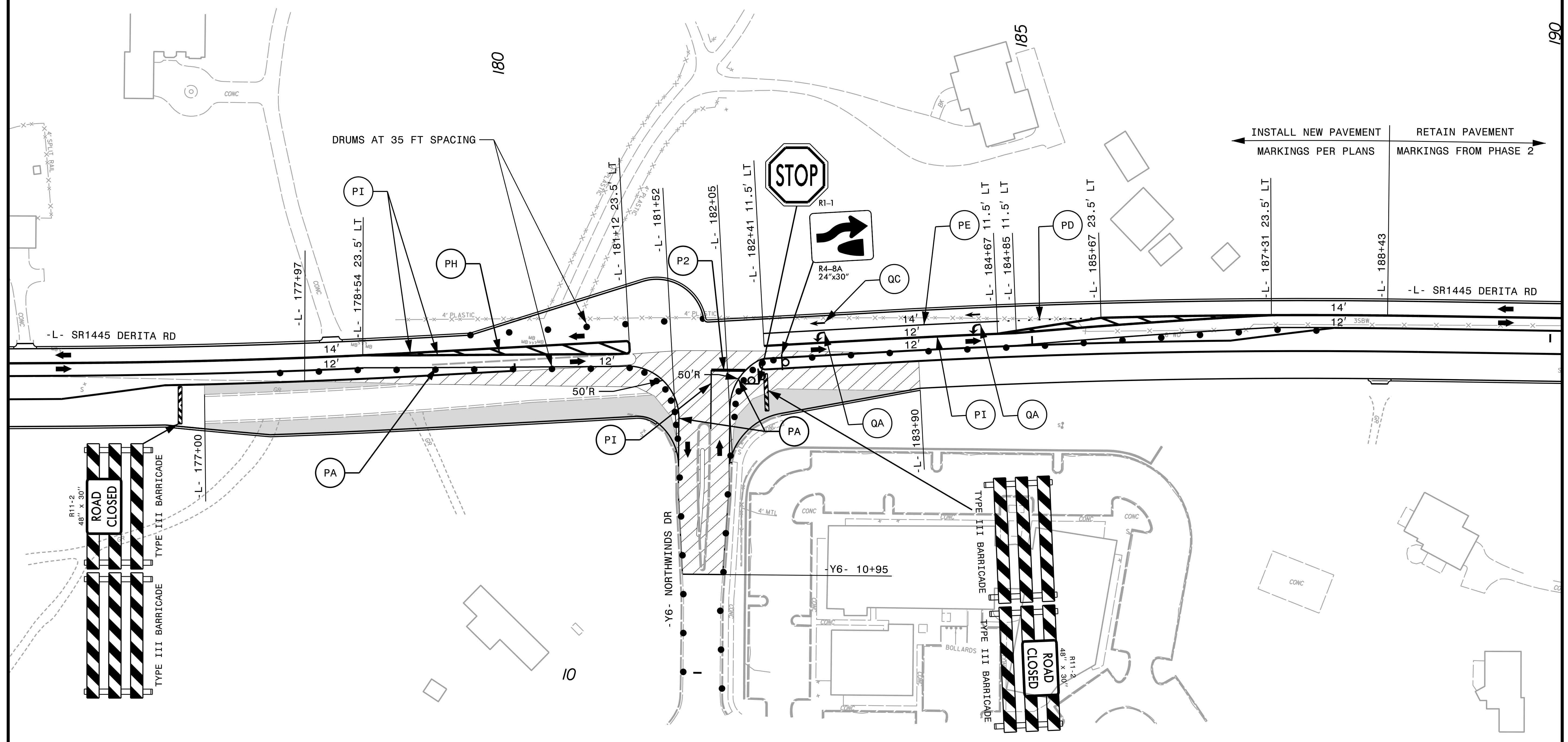
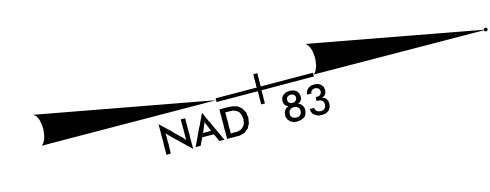
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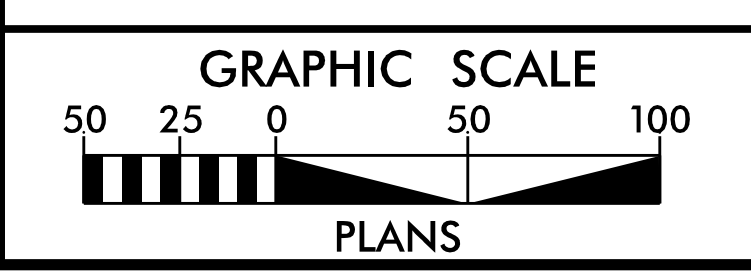
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LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS
- EXISTING PROPOSED TEMPORARY



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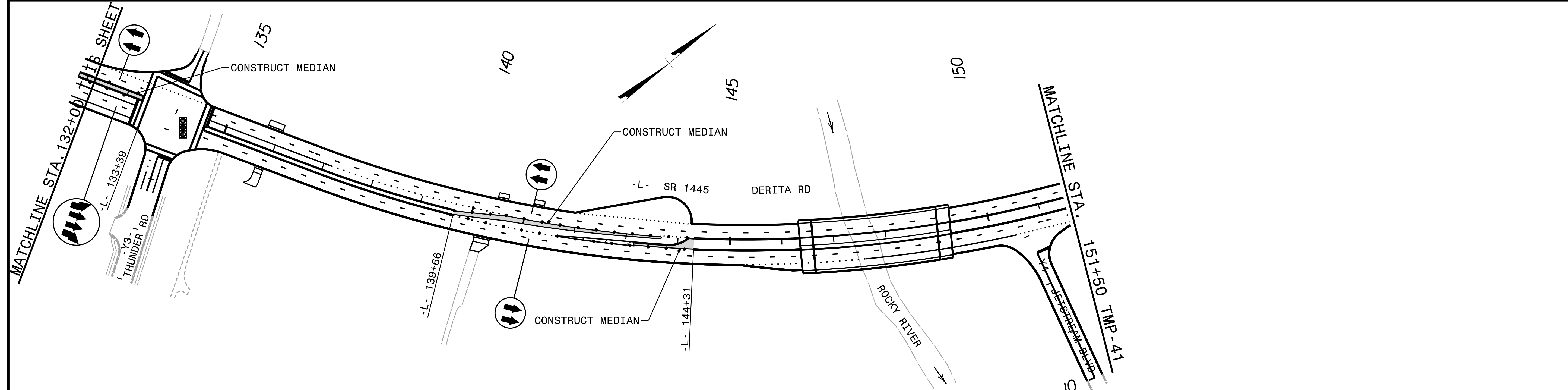
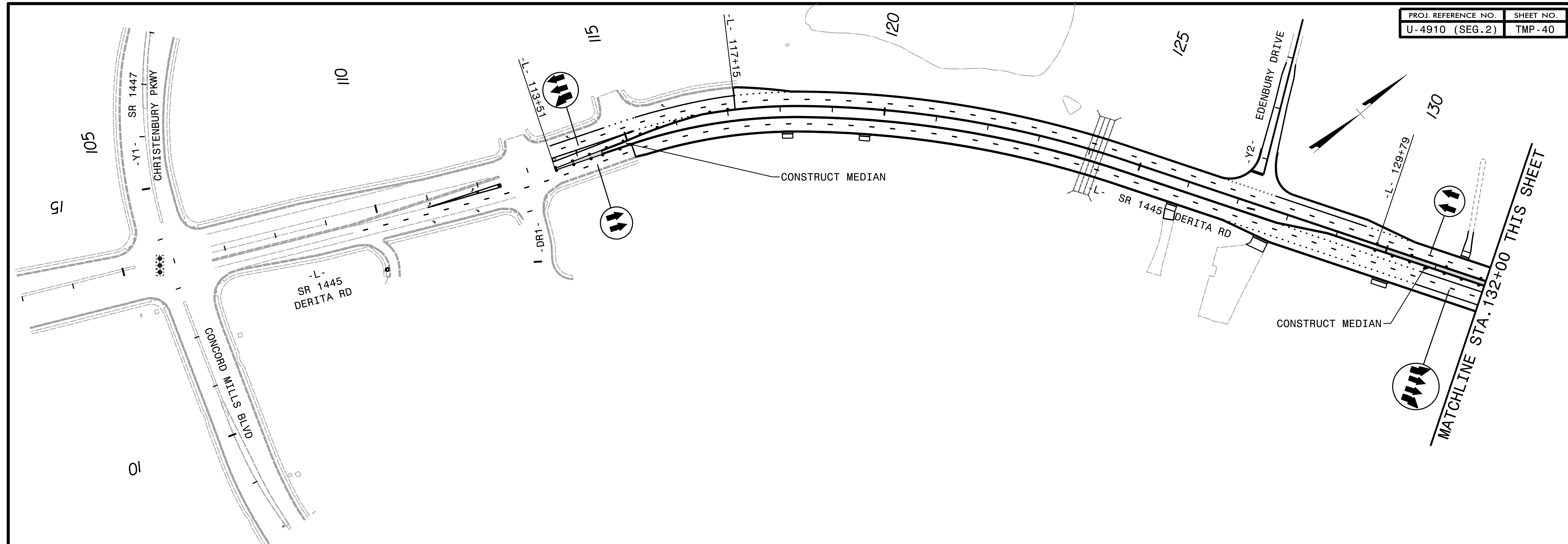
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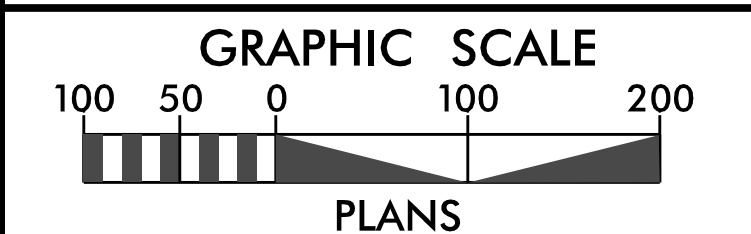


LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY



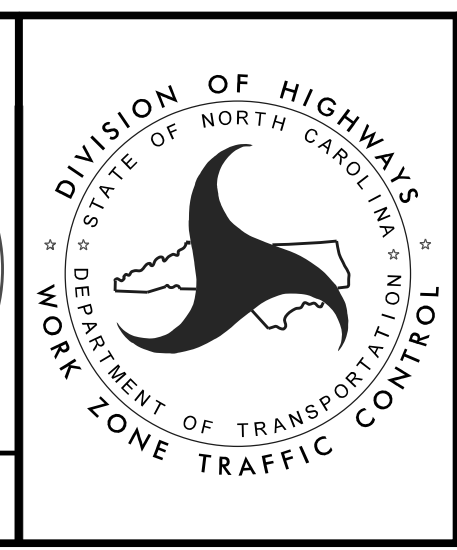
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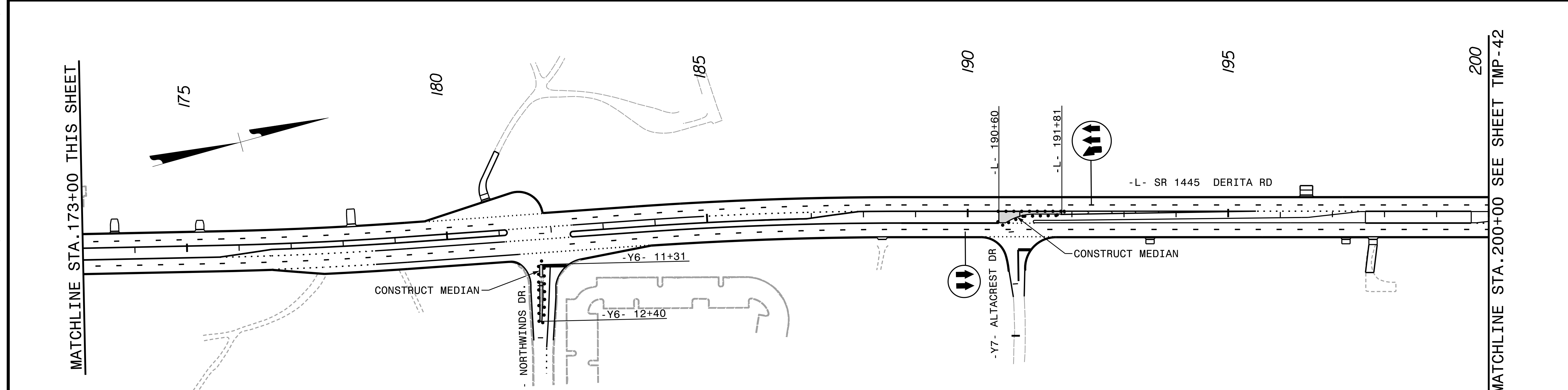
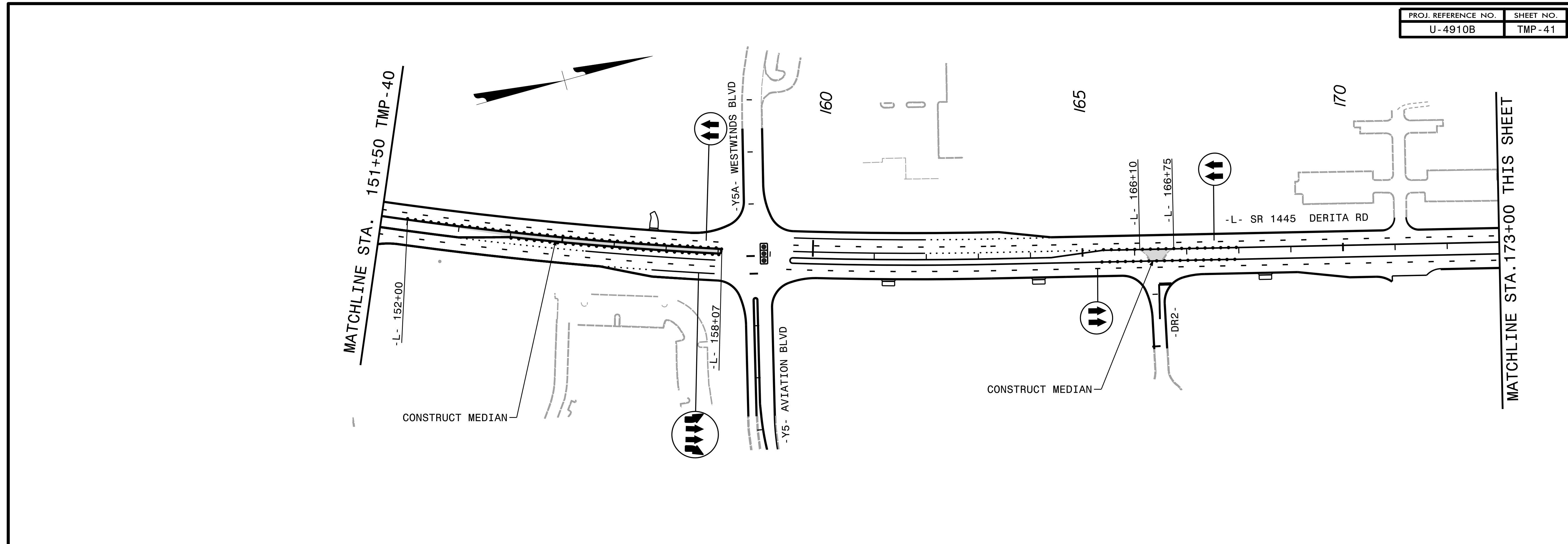
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 NORTH CAROLINA
 PROFESSIONAL ENGINEER
 18122
 JEFFREY A. KOONTZ

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**PHASE IV
 OVERVIEW 1**

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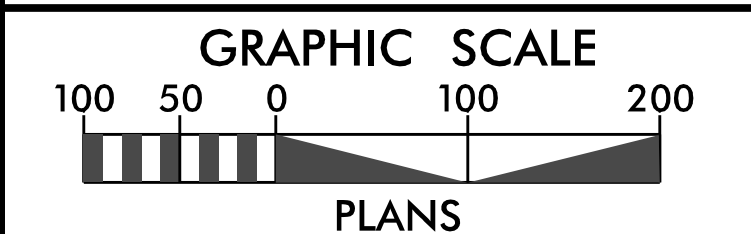


LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION

SIGNALS

- EXISTING
- PROPOSED
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848FEC002384F7

DATE: 9/27/2016

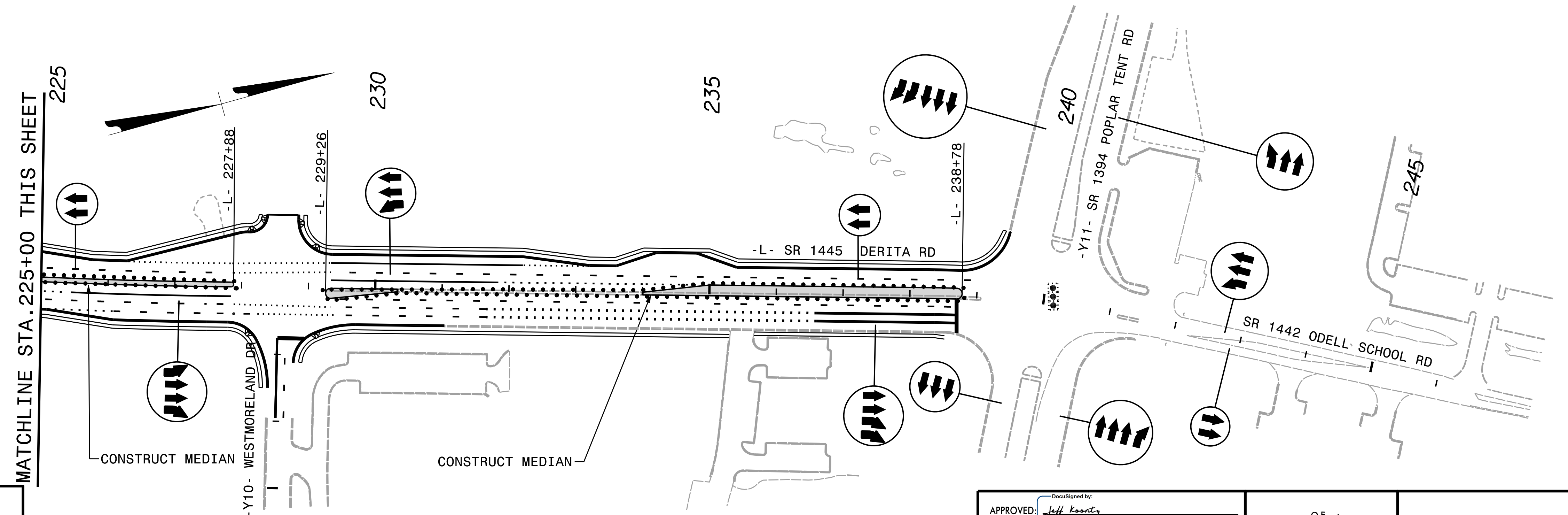
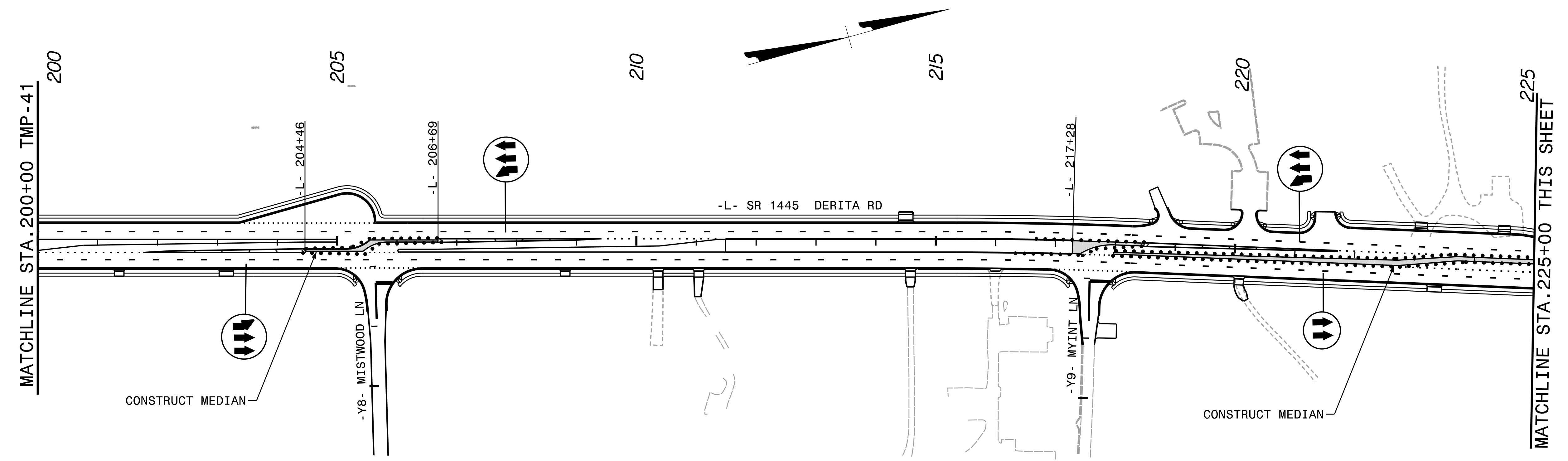
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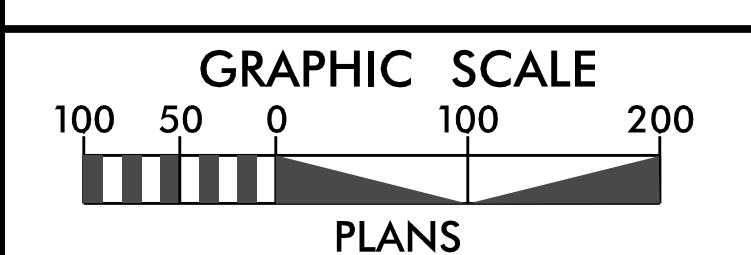
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LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



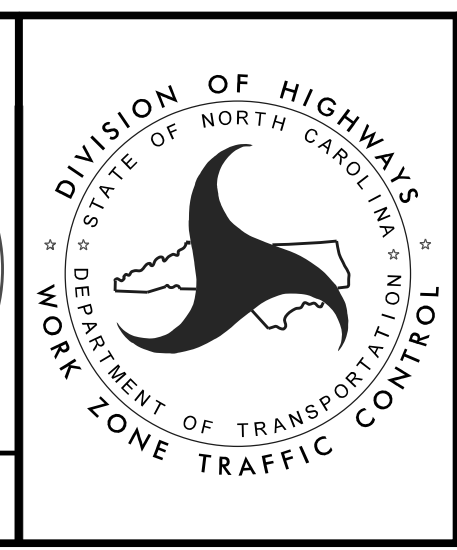
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DATE: 9/27/2016

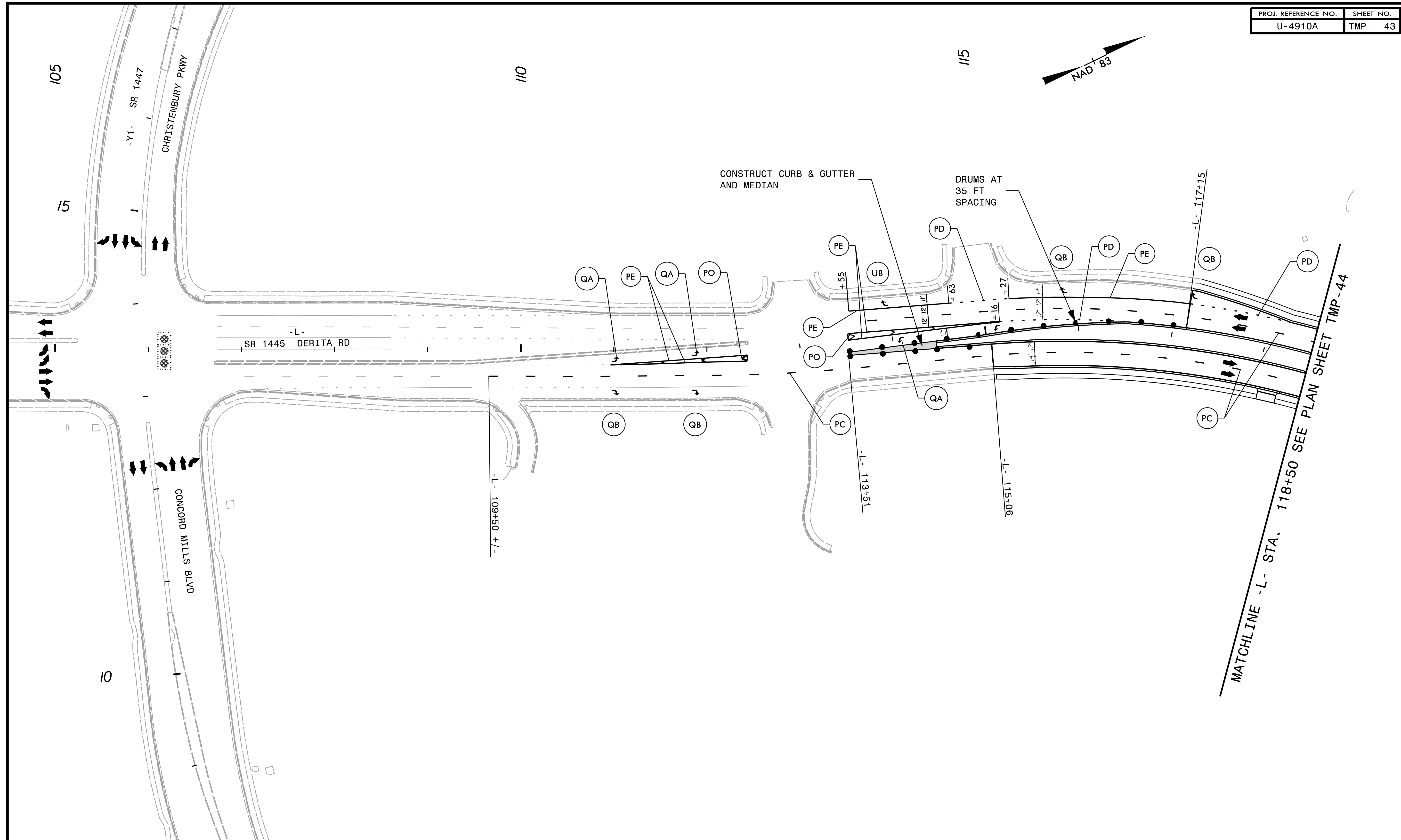
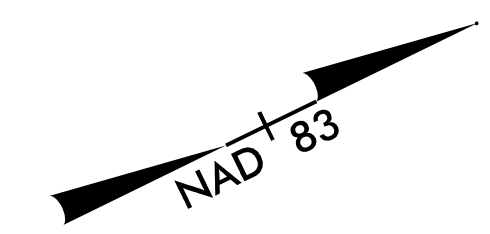
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**PHASE IV
 OVERVIEW 3**

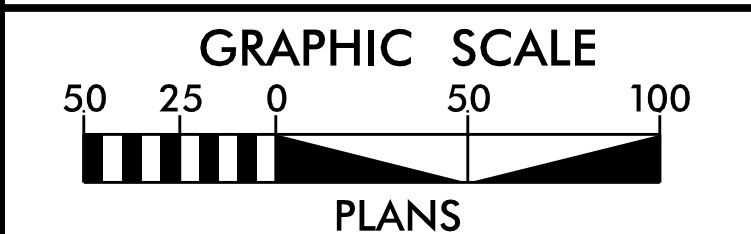
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LEGEND

	EXISTING ROADWAY
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	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



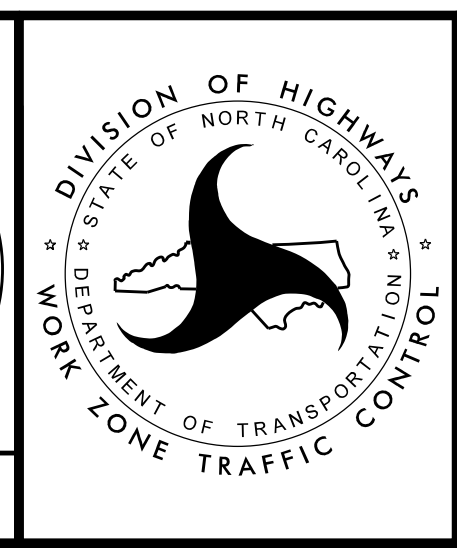
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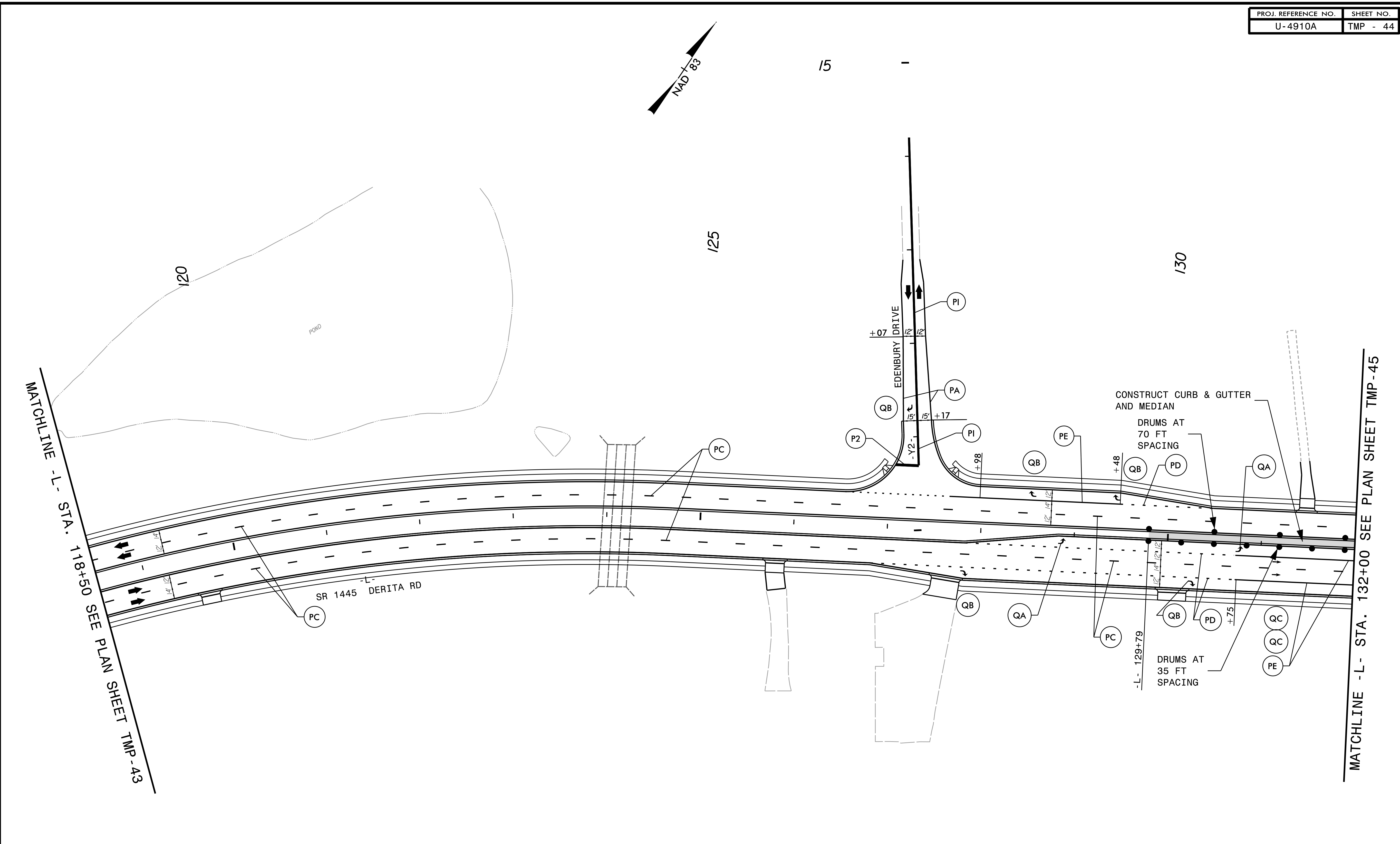
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PHASE IV – DETAIL 1

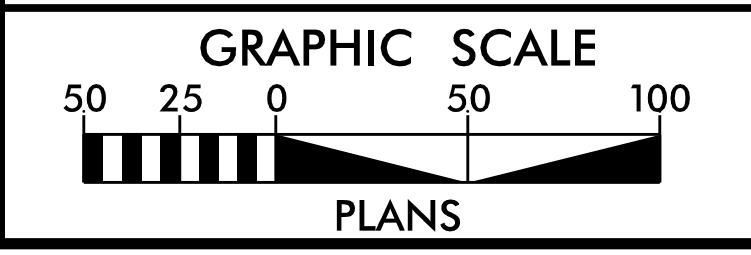
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LEGEND

	EXISTING ROADWAY
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	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
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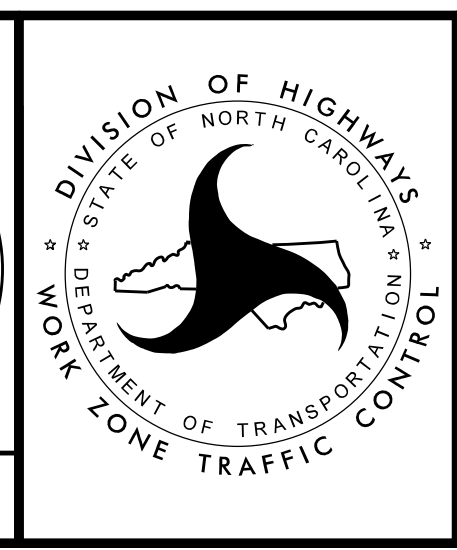


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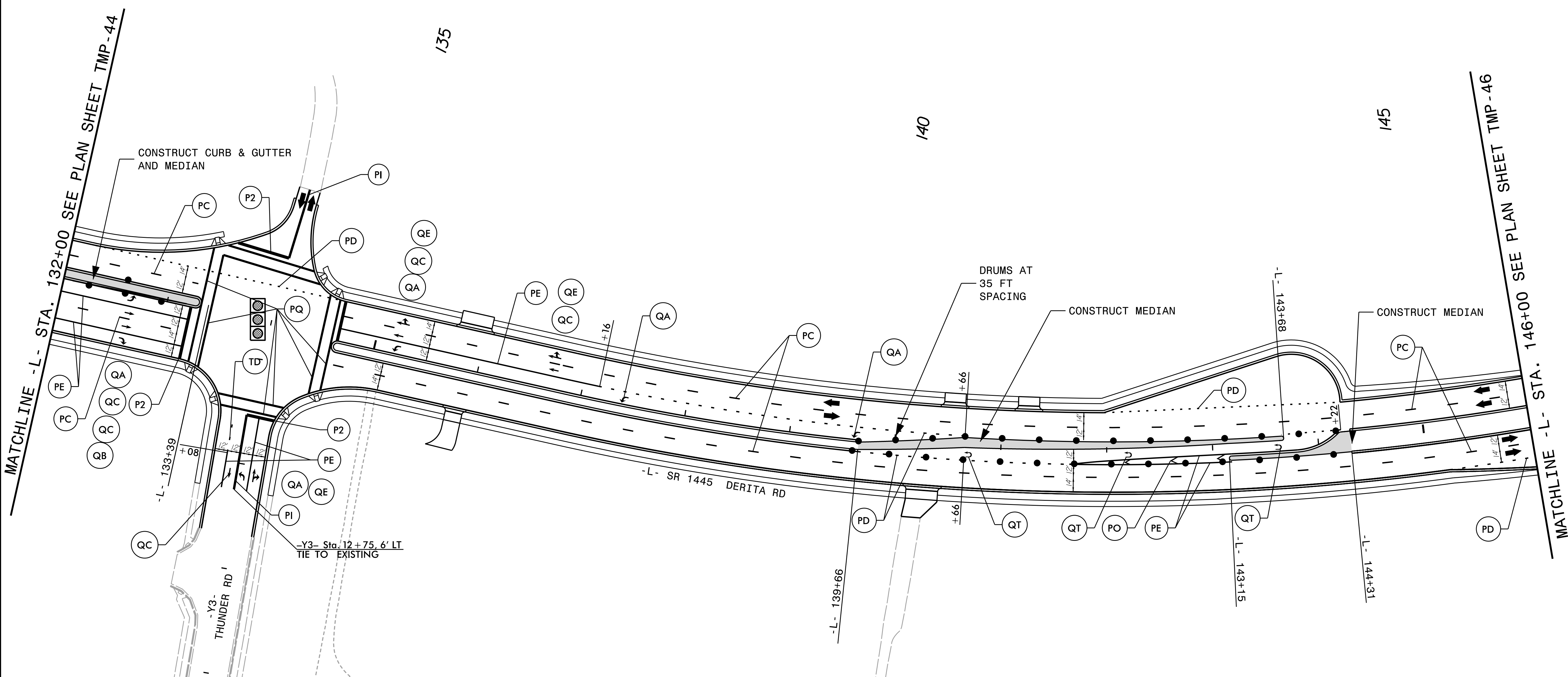
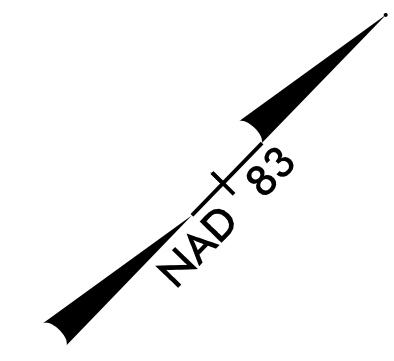
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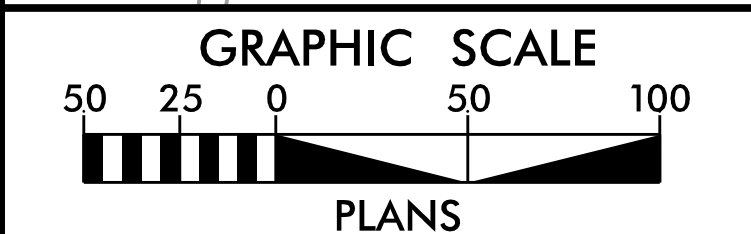
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LEGEND

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	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
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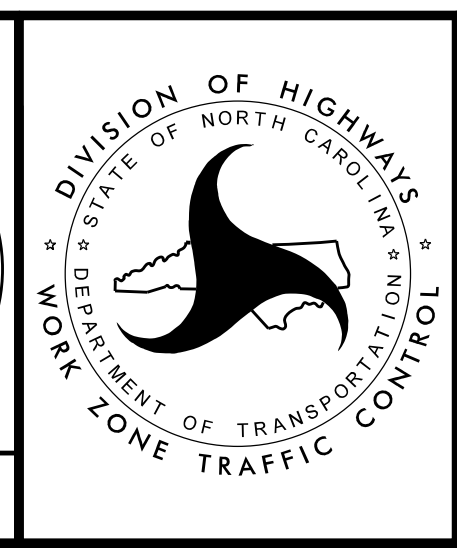


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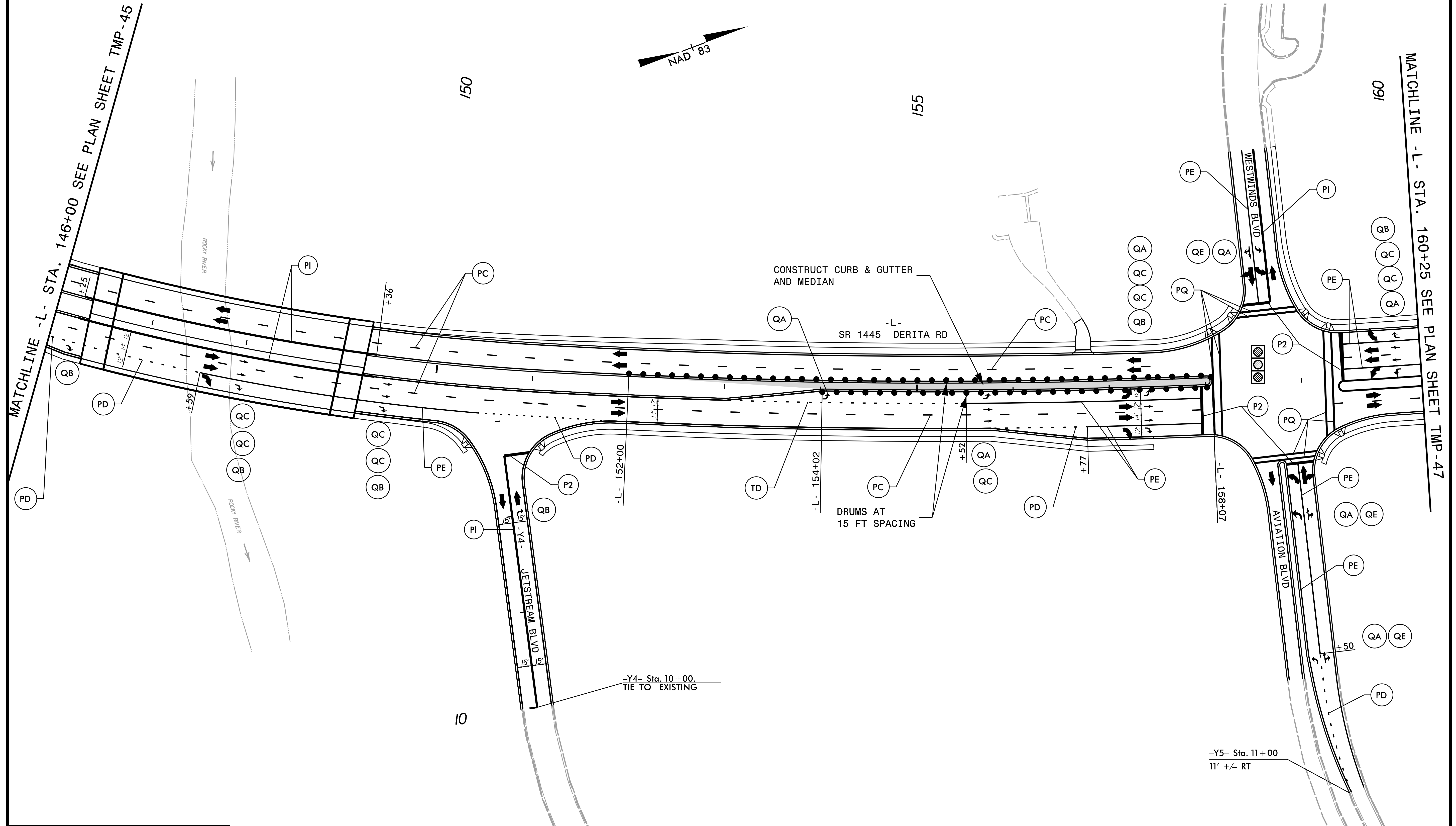
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PHASE IV - DETAIL 3

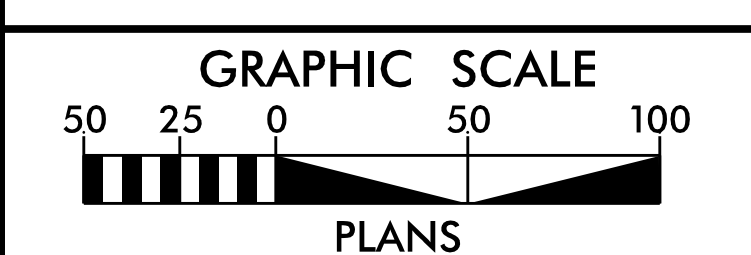
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LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING PROPOSED TEMPORARY



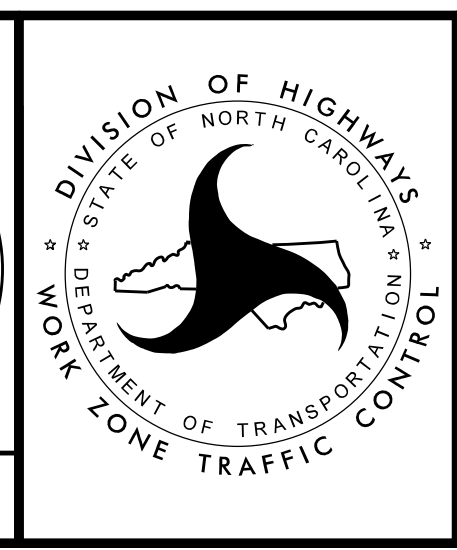
AECOM
 NC Firm License No.: F-0342
 701 Corporate Center Drive
 Suite 475 Raleigh, NC 27607
 Phone: 919-854-6200

APPROVED: *Jeff Koenig*
DocuSigned by:
Jeff Koenig
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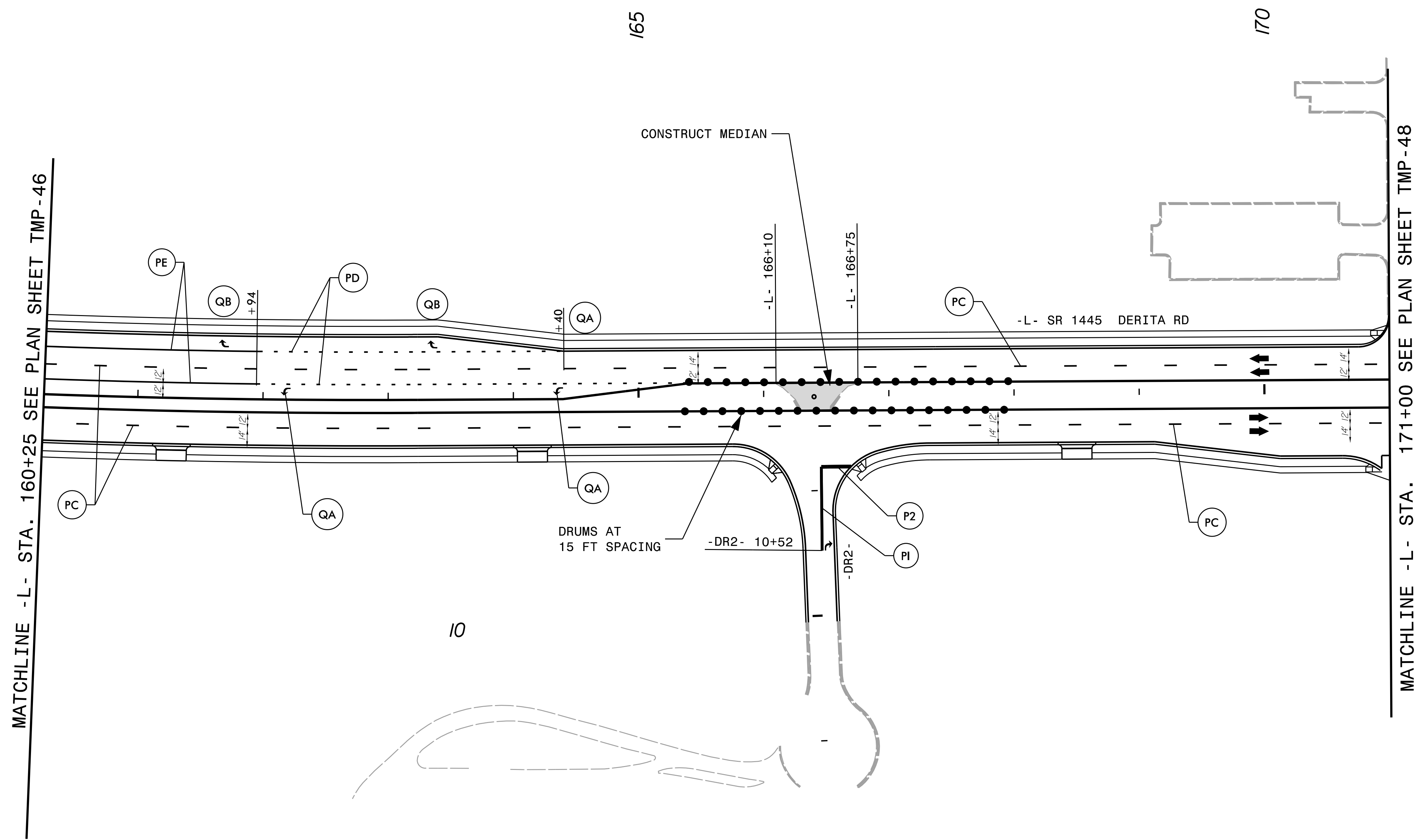
DATE: 9/27/2016

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PHASE IV - DETAIL 4



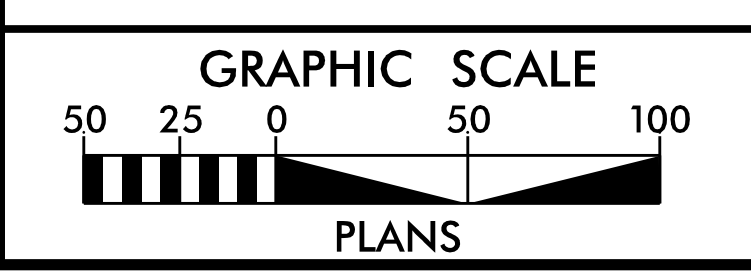
MATCHLINE -L- STA. 160+25 SEE PLAN SHEET TMP-46

MATCHLINE -L- STA. 171+00 SEE PLAN SHEET TMP-48

LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS

EXISTING PROPOSED TEMPORARY

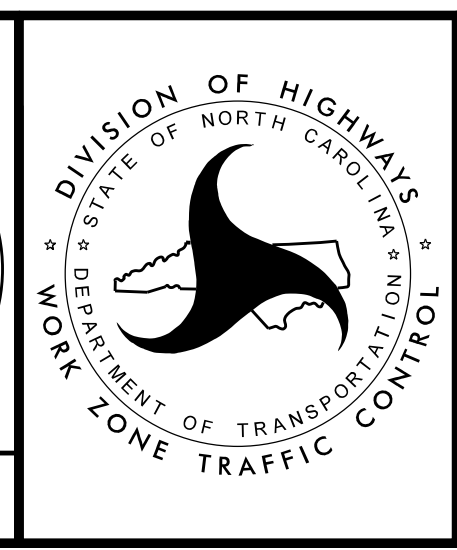


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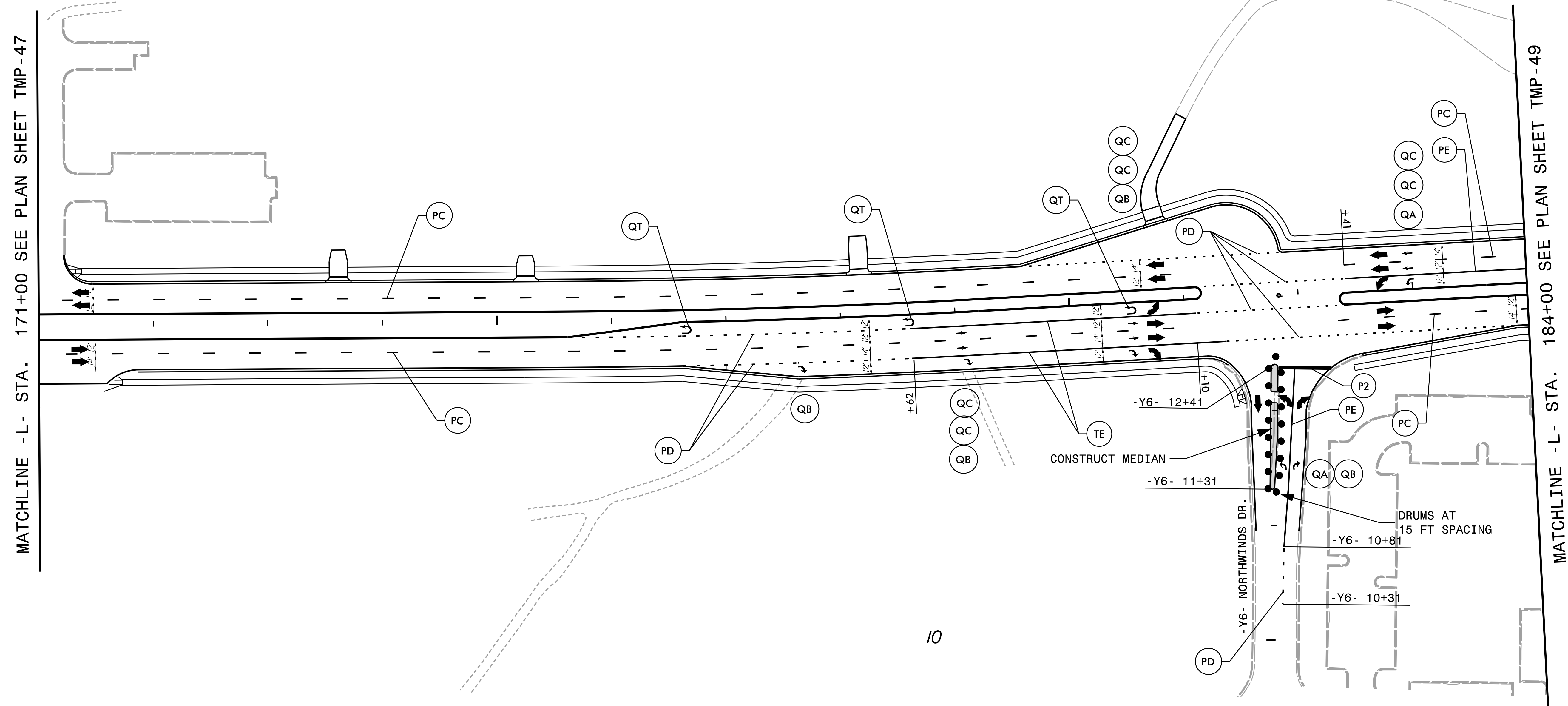
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PHASE IV - DETAIL 5

4:57:08 PM
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 baicwlm



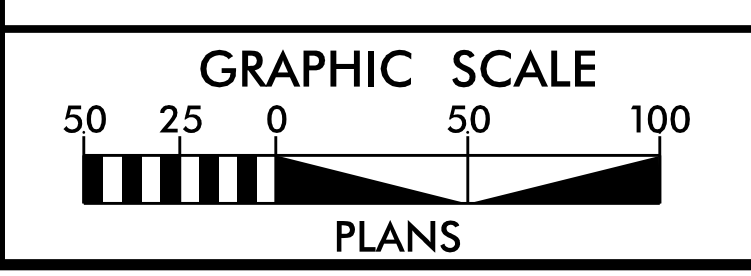
MATCHLINE -L- STA. 171+00 SEE PLAN SHEET TMP-47

MATCHLINE -L- STA. 184+00 SEE PLAN SHEET TMP-49

LEGEND

- EXISTING ROADWAY
- WEDGING
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT
- COMPLETED CONSTRUCTION
- SIGNALS

EXISTING PROPOSED TEMPORARY



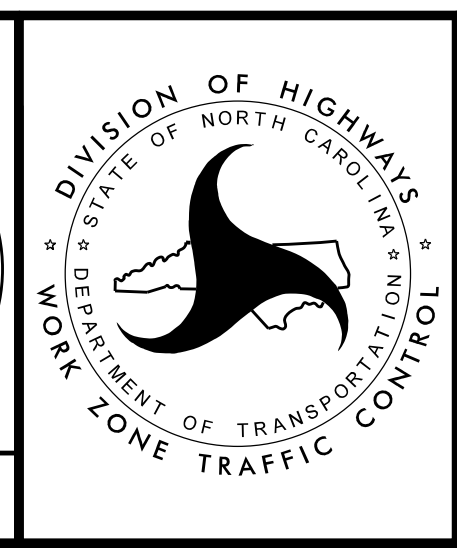
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 Suite 475 Raleigh, NC 27607
 Phone: 919-854-6200

APPROVED: *Jeff Keating*
84E8FECC02384F7

DATE: 9/27/2016

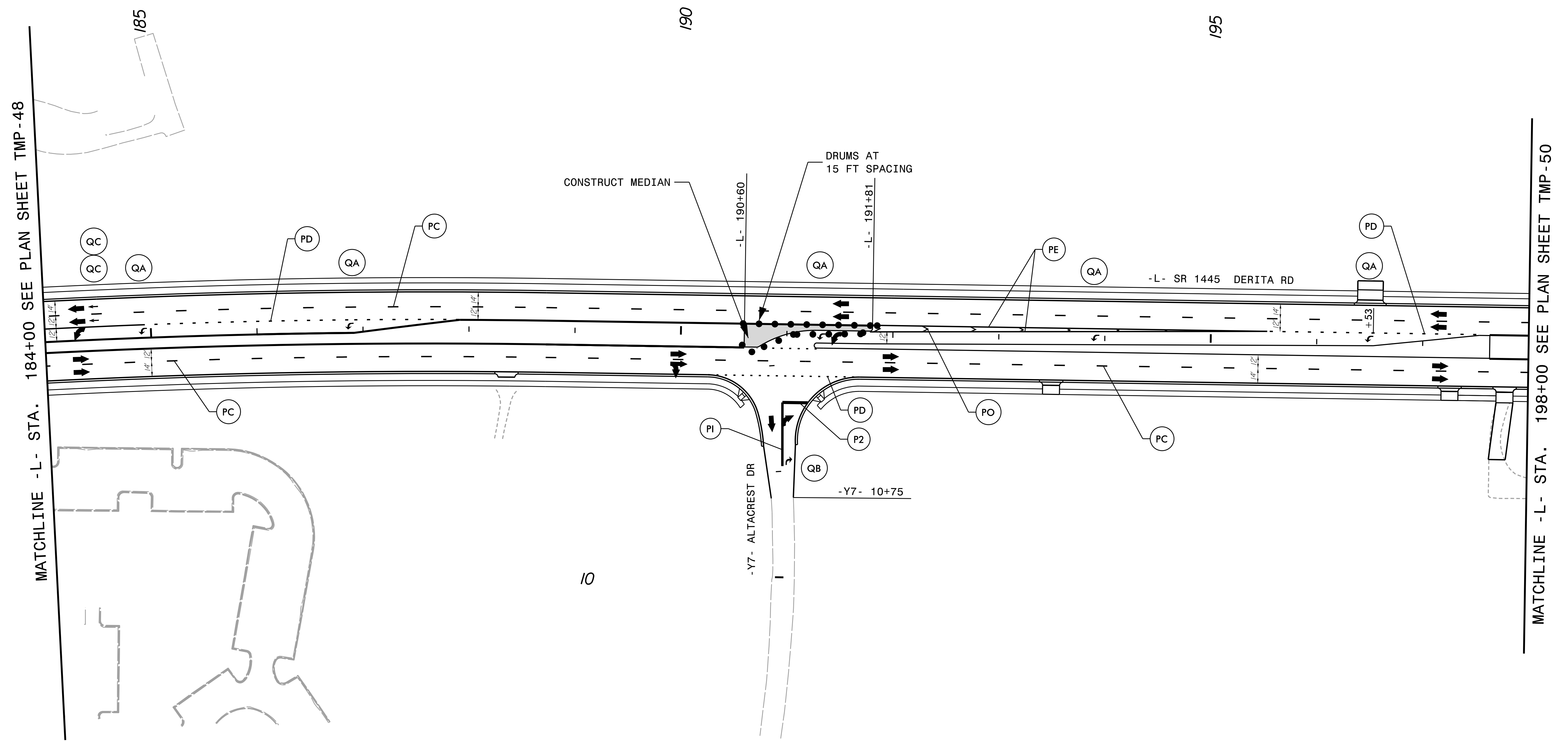
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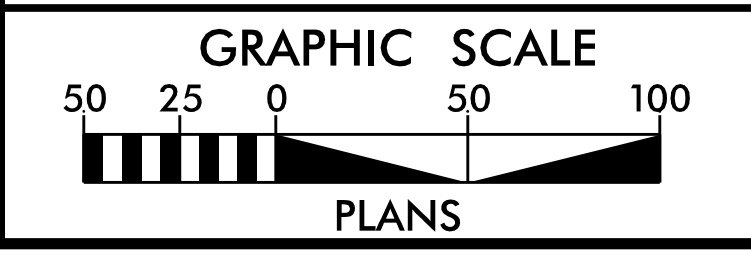
PHASE IV - DETAIL 6

4:57:56 PM
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 baicwlm



LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	EXISTING SIGNALS
	PROPOSED SIGNALS
	TEMPORARY SIGNALS



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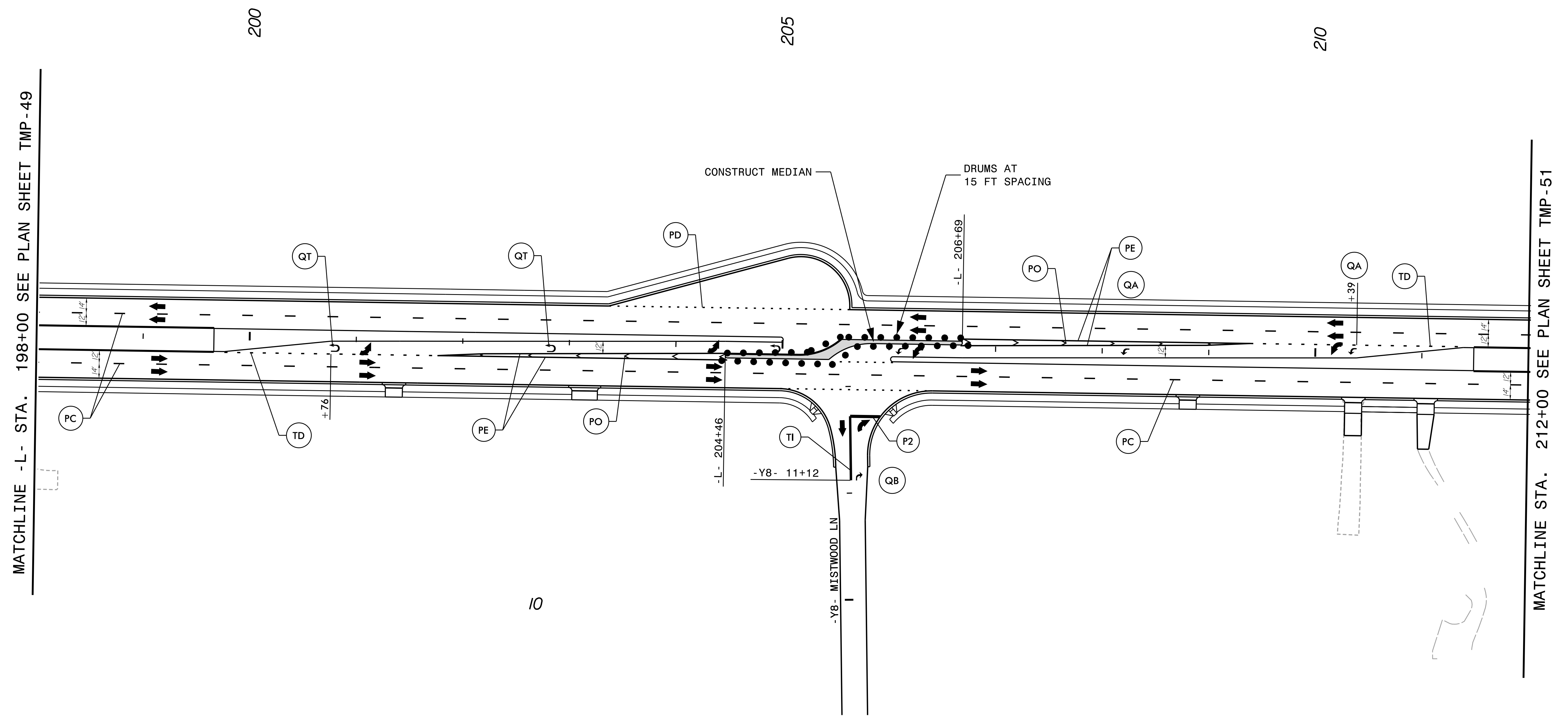
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PHASE IV - DETAIL 7

4:58:43 PM
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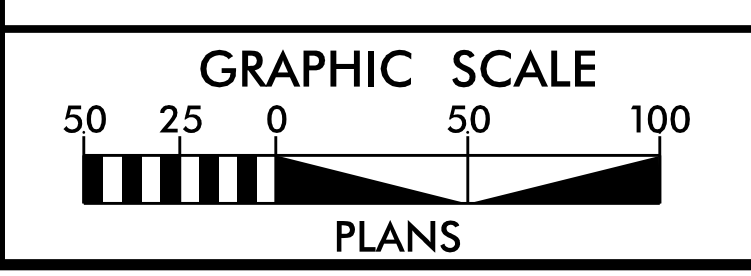


MATCHLINE - L- STA. 198+00 SEE PLAN SHEET TMP-49

MATCHLINE STA. 212+00 SEE PLAN SHEET TMP-51

LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



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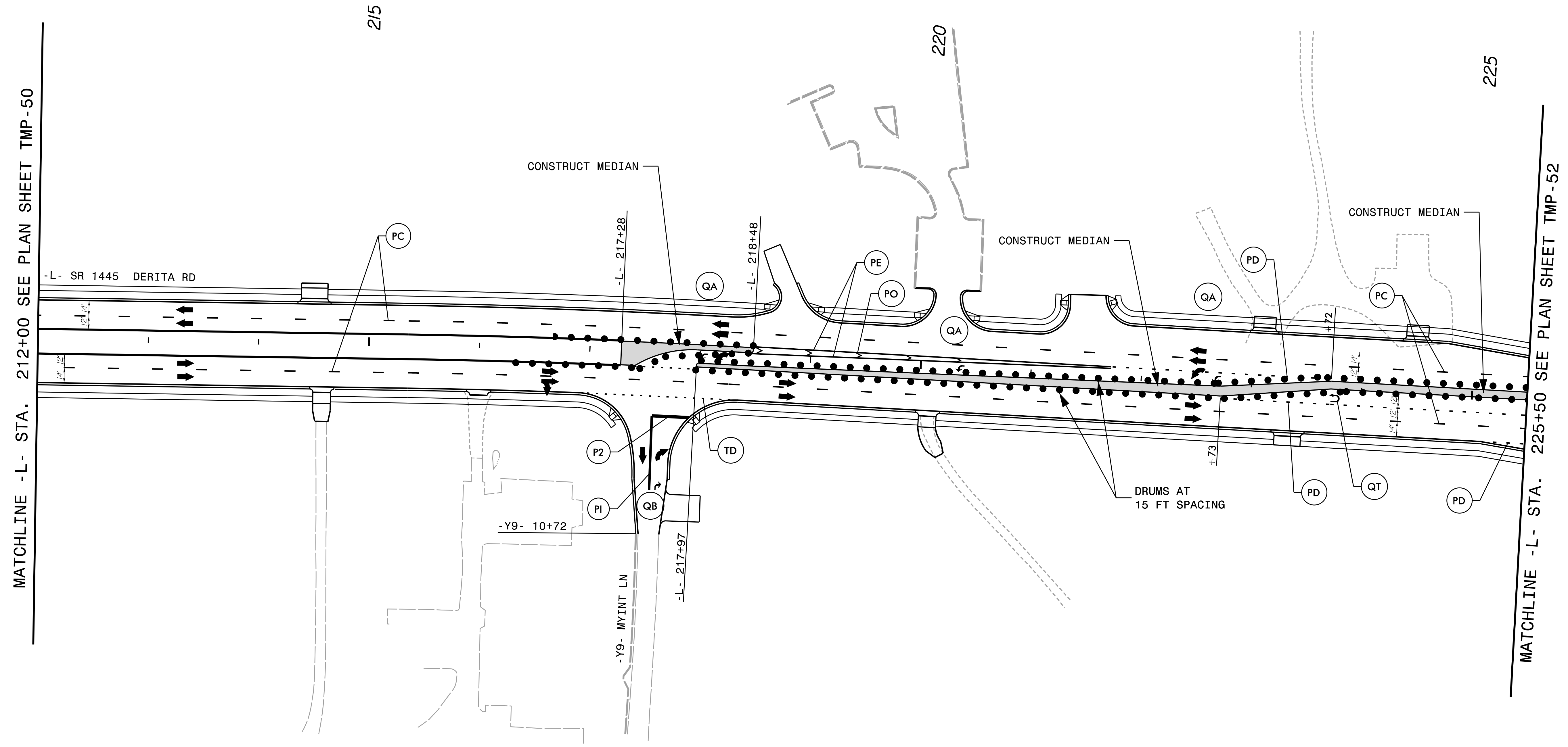
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PHASE IV - DETAIL 8

5:05:06 PM
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 baicwlm

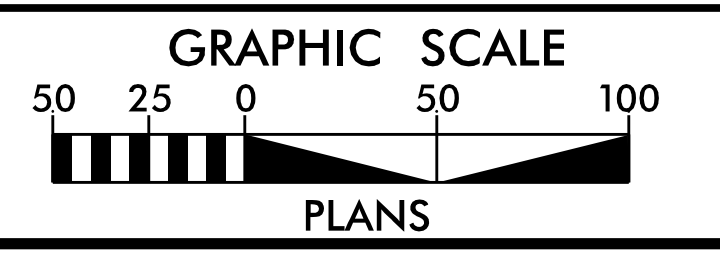


MATCHLINE - L- STA. 212+00 SEE PLAN SHEET TMP-50

MATCHLINE - L- STA. 225+50 SEE PLAN SHEET TMP-52

LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



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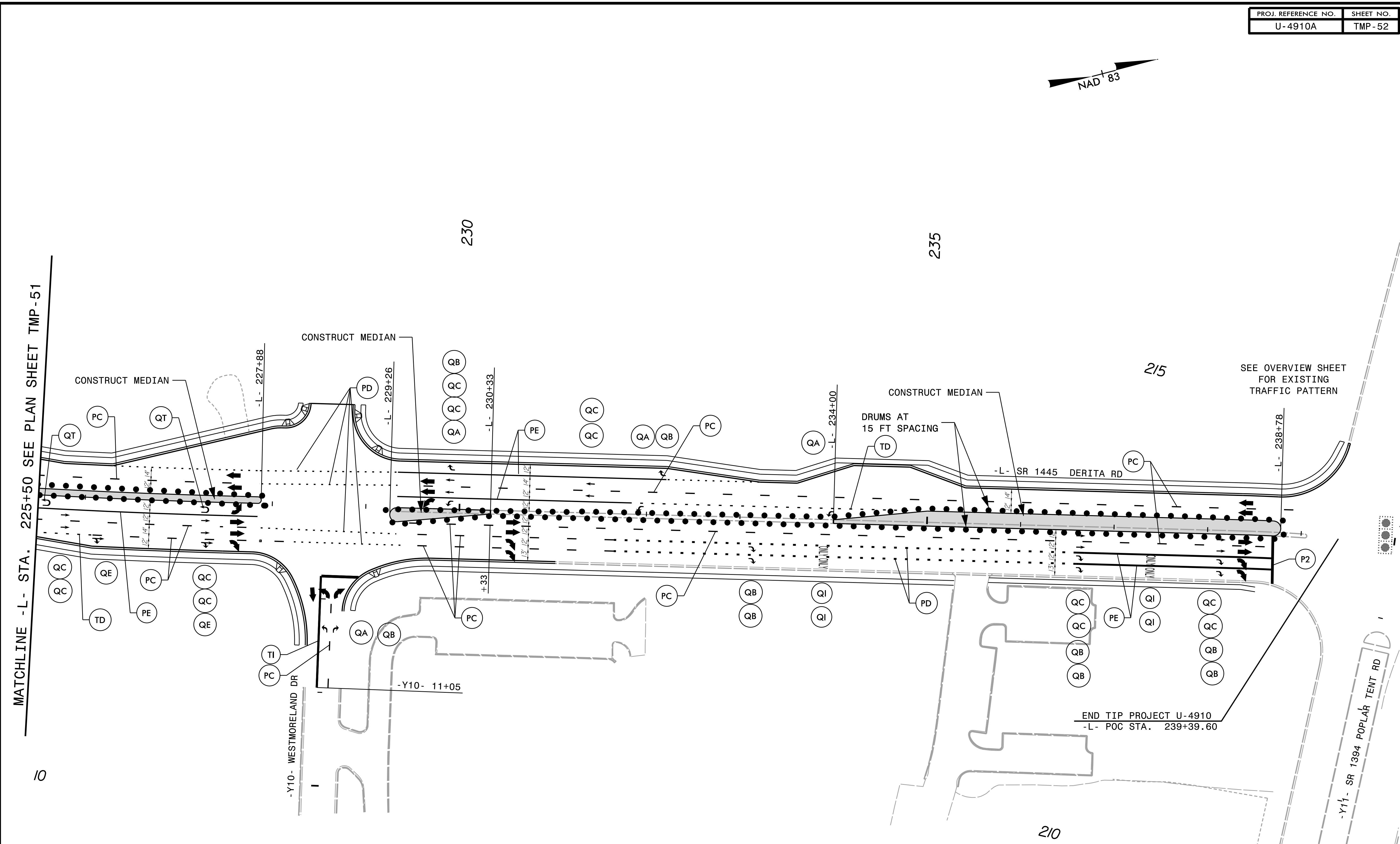
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PHASE IV - DETAIL 9

5:04:14 PM
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 baicwlm



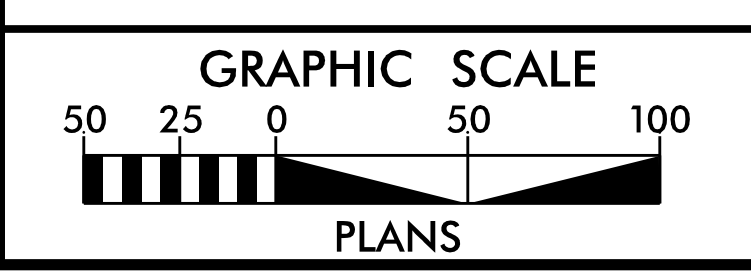
MATCHLINE -L- STA. 225+50 SEE PLAN SHEET TMP-51

SEE OVERVIEW SHEET FOR EXISTING TRAFFIC PATTERN

END TIP PROJECT U-4910
-L- POC STA. 239+39.60

LEGEND

	EXISTING ROADWAY
	WEDGING
	UNDER CONSTRUCTION
	TEMPORARY PAVEMENT
	COMPLETED CONSTRUCTION
	SIGNALS
	EXISTING
	PROPOSED
	TEMPORARY



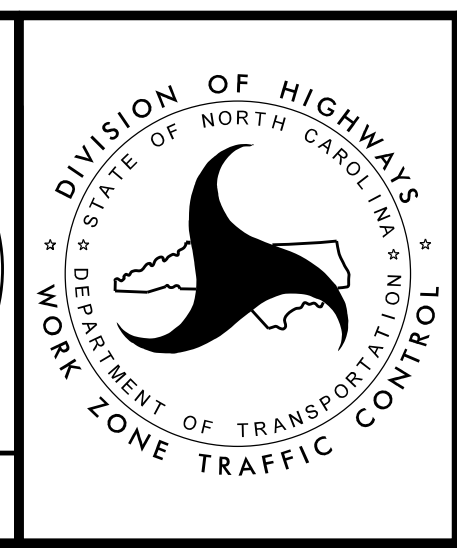
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DATE: 9/27/2016

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PHASE IV - DETAIL 10

5:02:26 PM P:\Projects\2\U4910_DeritaRd\TrafficControl\TCP\Segment_1\Phase4\U4910_tcl_ph4_det06.dgn baicwlm