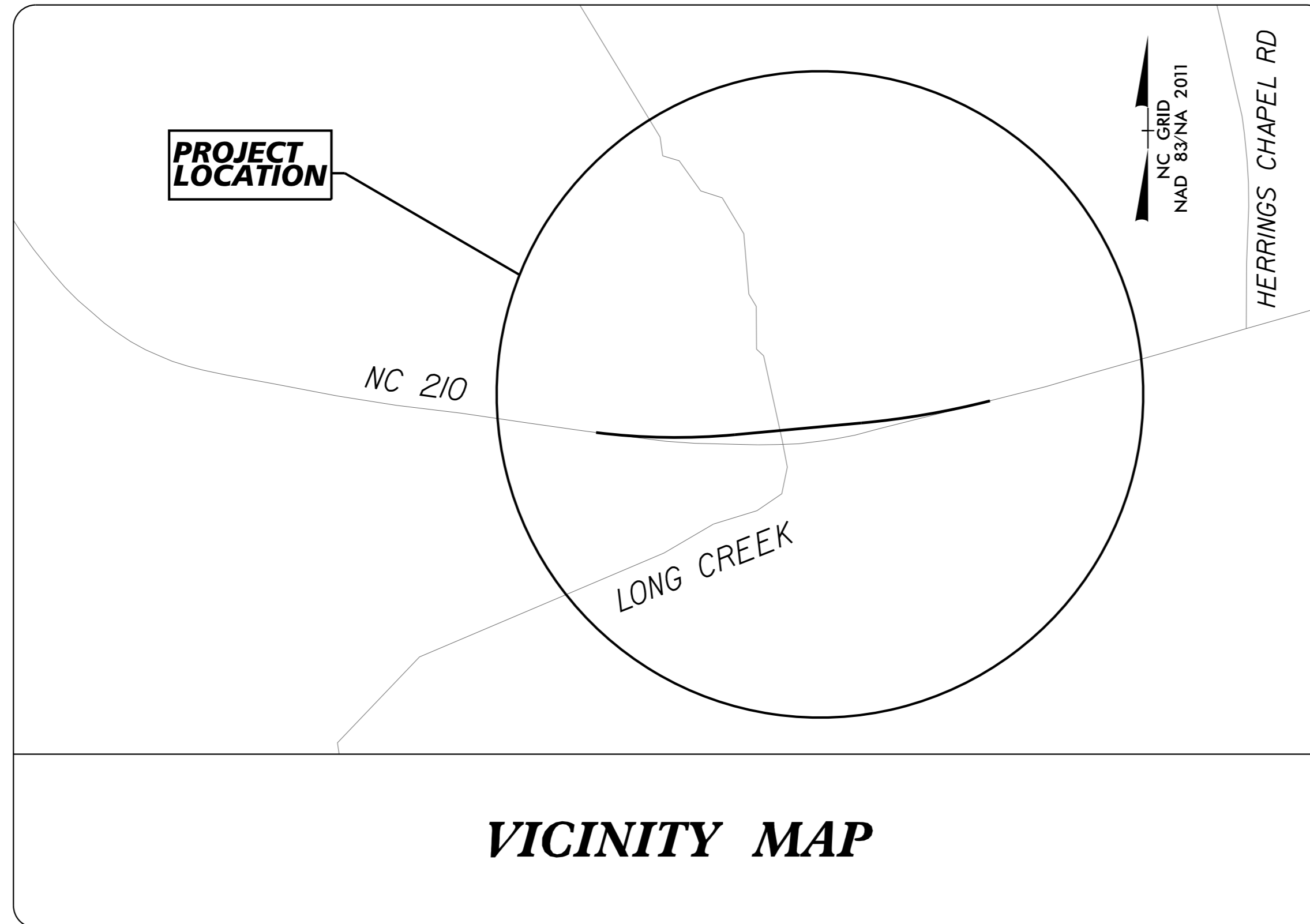


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

PENDER COUNTY



VICINITY MAP

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>TITLE</u>
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, TEMPORARY PAVEMENT MARKINGS
TMP-2	GENERAL NOTES
TMP-3	PHASING NOTES
TMP-3A	TEMPORARY SHORING NOTES
TMP-4	PHASE IA DETAILS
TMP-5 TO TMP-6	PHASE I DETAILS
TMP-7 TO TMP-8	PHASE II DETAILS

06/14/23 DATE SUBMITTED

SUBMITTAL:

STAGING CONCEPT

MIDPOINT

PRE-FINAL

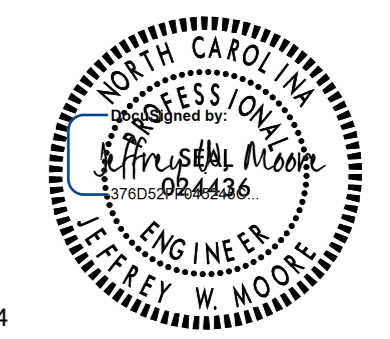
FINAL

Kimley»Horn

JEFFREY W. MOORE, P.E. *TRAFFIC CONTROL PROJECT ENGINEER*
TYLER SPRING, P.E. *TRAFFIC CONTROL PROJECT DESIGN ENGINEER*

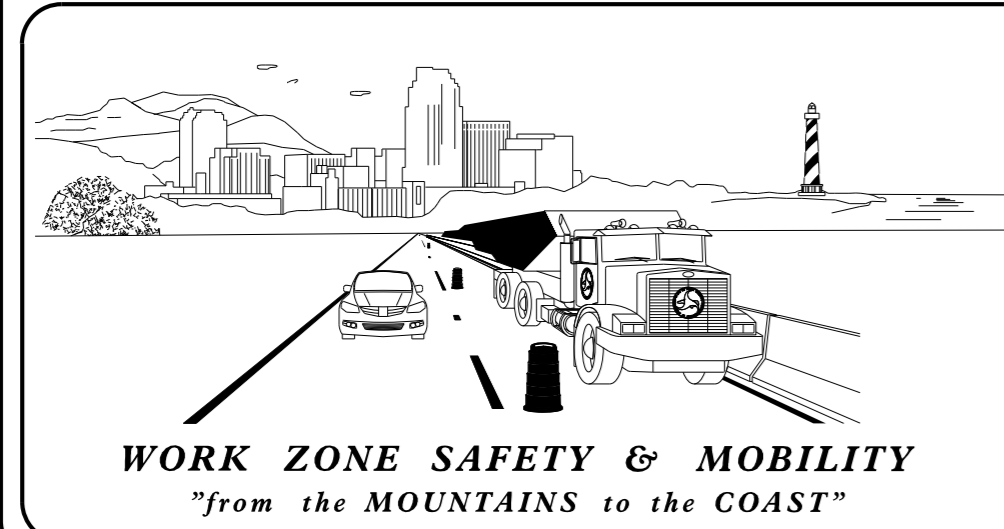
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N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

ANTHONY W. LAW *DIVISION CONSTRUCTION ENGINEER*
DANIEL R CUMBO, P.E. *ASSISTANT DIVISION CONSTRUCTION ENGINEER*



TIP PROJECT: B-5156

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 2024 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
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - (TEMPORARY & PERMANENT)
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS
1264.02	PLACEMENT OF OBJECT MARKERS

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- _____ PROPOSED PVMT.

- WORK AREA
- REMOVAL
- VARIABLE DEPTH MILLING AND WEDGING

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- TEMPORARY SHORING
- FLASHING ARROW PANEL (TYPE C)
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- _____ EXISTING LINES
- _____ TEMPORARY LINES

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

- PAVEMENT MARKING LINES
- P1 - WHITE EDGELINE (4", PAINT)
- P13 - YELLOW DOUBLE CENTER (4", PAINT)

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APPROVED: _____ DATE: _____		ROADWAY STANDARD DRAWINGS & LEGEND

MANAGEMENT STRATEGIES

PROPOSED IMPROVEMENTS ALONG NC 210 AND ALL DRIVEWAYS WILL BE CONSTRUCTED WHILE MAINTAINING TRAFFIC AND USING TEMPORARY TRAFFIC PATTERNS WITH TEMPORARY LANE CLOSURES. LOCAL ACCESS TO RESIDENTS AND BUSINESSES WILL BE MAINTAINED AT ALL POSSIBLE TIMES DURING CONSTRUCTION.

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:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
-L- NC 210	6:00 AM TO 9:00 AM (MONDAY THRU FRIDAY) 3:00 PM TO 6:00 PM (MONDAY THRU FRIDAY)

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

<u>ROAD NAME</u>	<u>HOLIDAY</u>
-L- NC 210	<ol style="list-style-type: none"> FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER. FOR NEW YEARS DAY, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST AND 6:00 P.M. JANUARY 2ND. IF NEW YEARS DAY, IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY, THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 P.M. MONDAY. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 6:00 P.M. MONDAY. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS DAY.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- G) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- H) 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.
- I) 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' IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

- J) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- K) 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.
- L) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- M) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500' IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- N) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (55 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) AND 1135 (CONES) FOR ADDITIONAL REQUIREMENTS.
- O) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- P) 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

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

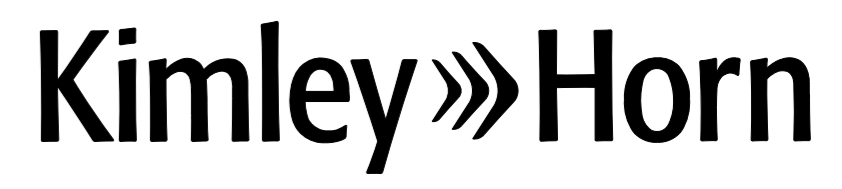
<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
NC 210	PAINT	NONE

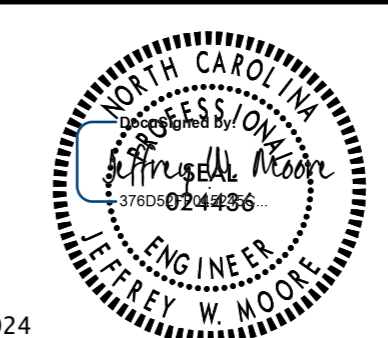
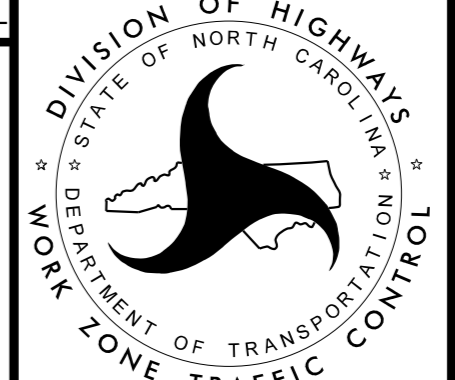
- R) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- T) REMOVE/REPLACE ANY CONFLICTING/DAMAGED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

MISCELLANEOUS

- U) 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' and 1000' RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

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3/8/2024				

PROJ. REFERENCE NO.	SHEET NO.
B-5156	TMP-3

PHASING

PHASE 1A

WHILE MAINTAINING TRAFFIC USING RSD 1101.04 FOR SHOULDER CLOSURES AND RSD 1101.02 FOR LANE CLOSURES AS NECESSARY, PERFORM THE FOLLOWING AS SHOWN ON SHEET TMP-4;

STEP 1: INSTALL ADVANCE WARNING SIGNS IN ACCORDANCE WITH RSD 1101.01 AND INSTALL TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLAN SHEETS.

STEP 2: INSTALL TEMPORARY GUARDRAIL, TEMPORARY GUARDRAIL ANCHOR UNIT, AND TEMPORARY GUARDRAIL END UNIT ALONG THE EXISTING WESTBOUND LANES OF NC 210 BEGINNING AT -L- STA. 19+27 AND TYING TO THE EXISTING BRIDGE.

STEP 3: BEHIND TEMPORARY GUARDRAIL BEGIN GRADING AND INSTALL TEMPORARY SHORING.

STEP 4: ONCE TEMPORARY SHORING IS INSTALLED, PERFORM UNDERCUT EXCAVATION AS SHOWN ON SHEET TMP-4 AND IN THE ROADWAY CROSS SECTIONS.

STEP 5: UPON COMPLETION OF THE UNDERCUT EXCAVATION, PERFORM GRADING AS REQUIRED TO RESTORE THE EXISTING ROADWAY EMBANKMENT.

STEP 6: AFTER THE EXISTING ROADWAY EMBANKMENT HAS BEEN RESTORED, REMOVE TEMPORARY SHORING, REMOVE TEMPORARY GUARDRAIL AND CONTINUE GRADING FOR THE NEW LOCATION ROADWAY.

PHASE 1

WHILE MAINTAINING TRAFFIC USING RSD 1101.04 FOR SHOULDER CLOSURES AND RSD 1101.02 FOR LANE CLOSURES AS NECESSARY, PERFORM THE FOLLOWING AS SHOWN ON SHEETS TMP-5 AND TMP-6;

STEP 1: CONTINUE CONSTRUCTION OF THE NEW LOCATION ROADWAY INCLUDING GRADING, GUARDRAIL, DRAINAGE, BRIDGE CONSTRUCTION, AND PAVING UP TO BUT NOT INCLUDING THE FINAL ASPHALT SURFACE COURSE.

NOTE: PROVIDE WEDGING AS REQUIRED TO ENSURE SMOOTH TRANSITIONS AND MAINTAIN POSITIVE DRAINAGE

PHASE 2

WHILE MAINTAINING TRAFFIC USING RSD 1101.04 FOR SHOULDER CLOSURES AND RSD 1101.02 FOR LANE CLOSURES AS NECESSARY, PERFORM THE FOLLOWING AS SHOWN ON SHEETS TMP-7 AND TMP-8:

STEP 1: INSTALL TEMPORARY PAINT VERSION OF FINAL ROADWAY MARKINGS. REMOVE CONFLICTING MARKINGS AND SHIFT TRAFFIC INTO A ONE-LANE PATTERN IN THE NEWLY CONSTRUCTED WESTBOUND LANE USING FLAGGERS AND RSD 1101.02 SHEET 1 OF 14.


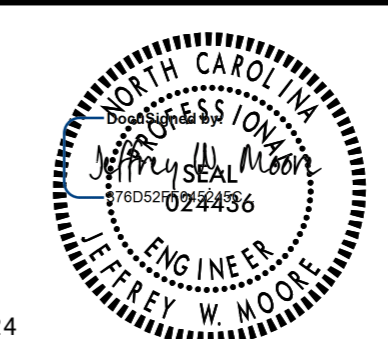
MAINTAIN TRAFFIC IN THE ONE-LANE PATTERN AND INSTALL REMAINING GUARDRAIL AND GUARDRAIL END UNITS ADJACENT TO THE NEWLY CONSTRUCTED EASTBOUND LANES. USING DRUMS AND TYPE III BARRICADES AS REQUIRED, CLOSE ACCESS TO OLD ROADWAY. AFTER THE REMAINING GUARDRAIL AND GUARDRAIL END UNITS HAVE BEEN INSTALLED OPEN THE NEWLY CONSTRUCTED ROADWAY TO THE PROPOSED 2-LANE, 2-WAY PATTERN.

STEP 2: USING RSD 1101.02 FOR TEMPORARY LANE CLOSURES AS NEEDED, REMOVE EXISTING ROADWAY AND COMPLETE ALL ASSOCIATED DRAINAGE AND GRADING.

STEP 3: PLACE FINAL SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND PERMANENT SIGNAGE ALONG NEW ROADWAY (REFER TO PAVEMENT MARKING AND SIGNAGE PLANS). REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN ALL LANES TO TRAFFIC.

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APPROVED:	DATE:		<p>PHASING NOTES</p>
	3/8/2024		

PROJ. REFERENCE NO.	SHEET NO.
B-5156	TMP-3A

TEMPORARY SHORING NOTES

TEMPORARY SHORING #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 -L- 21+25 +/-, 20.0 FT +/- RIGHT, TO STATION -L- 22+05 +/-, 20.0 FT +/- RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

**UNIT WEIGHT = 120 LB/CF
EXCEPT FOR -8 FT = EL.<1 FT, USE 100 LB/CF**

**FRICTION ANGLE = 30 DEGREES
EXCEPT FOR -8 FT= EL.<1 FT, USE 27 DEGREES**

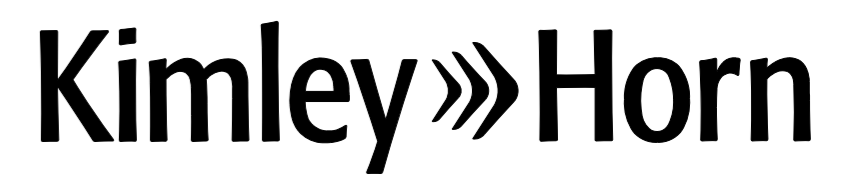
COHESION (c) = 0 LB/SF



GROUNDWATER ELEVATION = 1 FT +/-

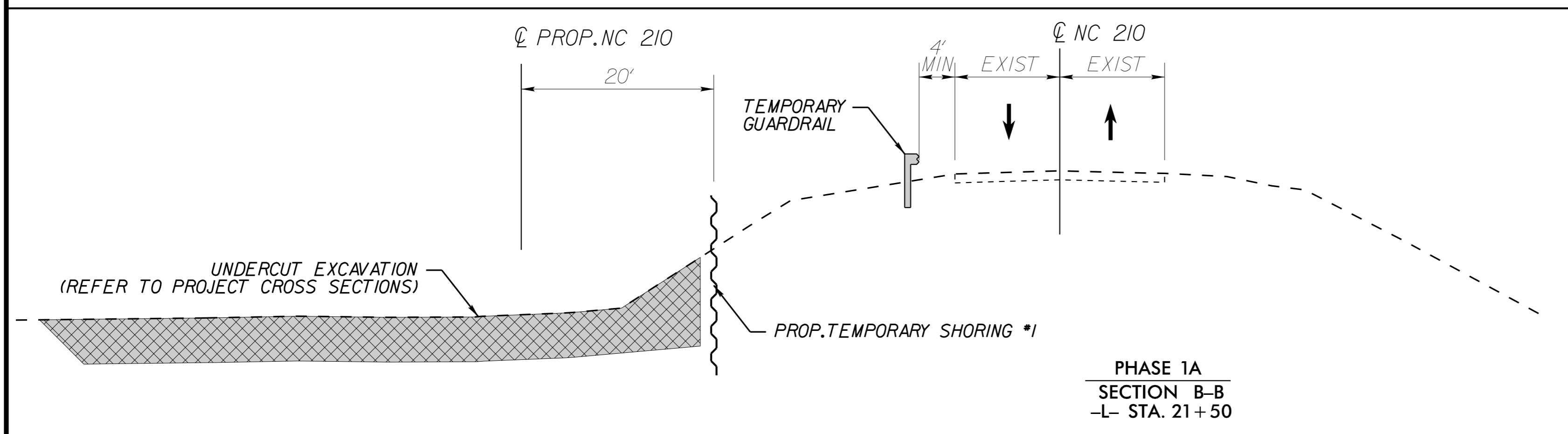
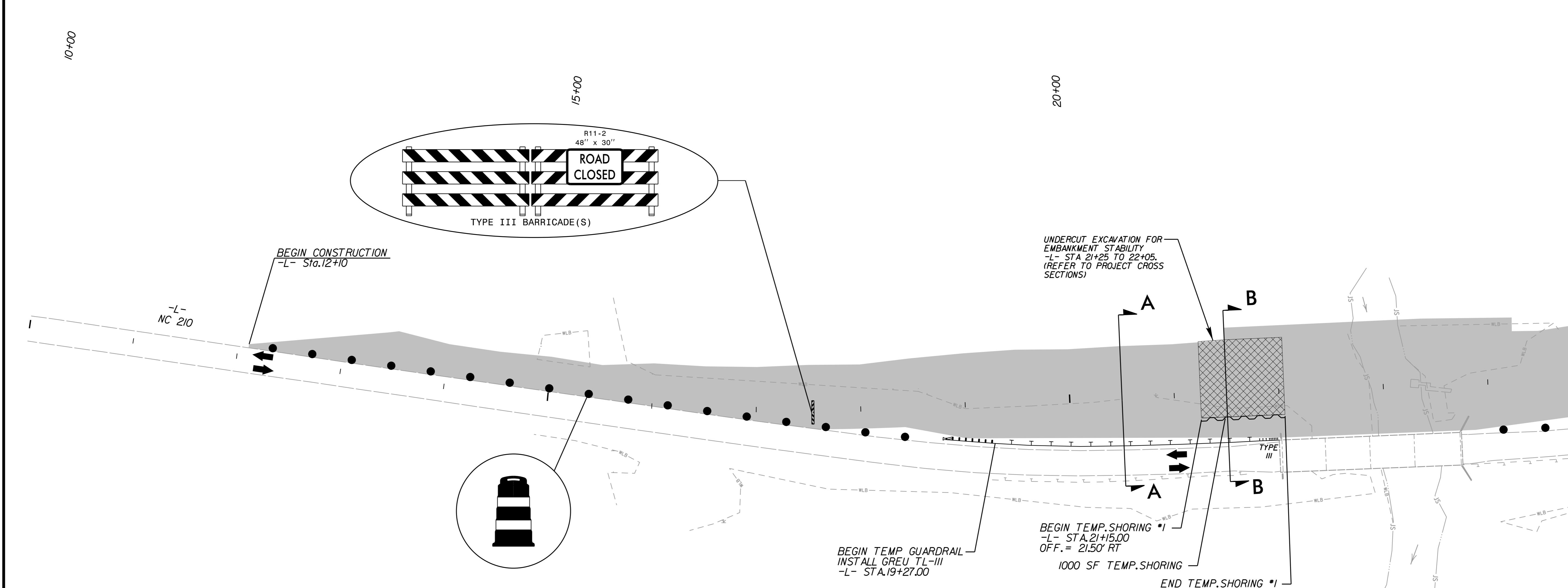
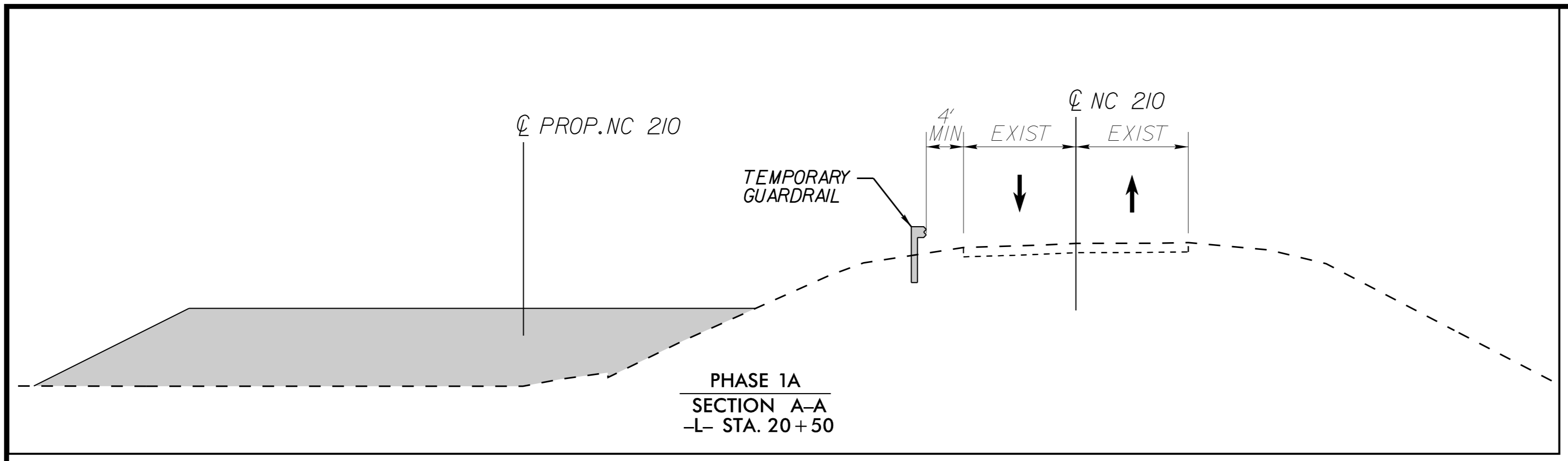
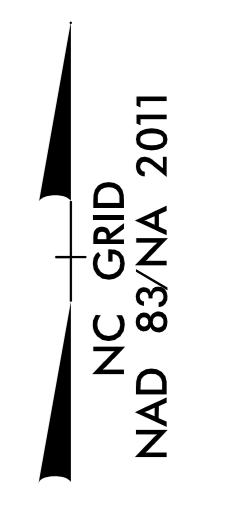
DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 21+25 +/-, 20.0 FT +/- RIGHT, TO STATION -L- 22+05 +/-, 20.0 FT +/- RIGHT.

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THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT.
THE DOCUMENT WAS SUBMITTED TO THE WZTC SECTION ON 8/21/2019 AND SEALED BY A PROFESSIONAL ENGINEER, JINYOUNG PARK - LICENSE # 032171.



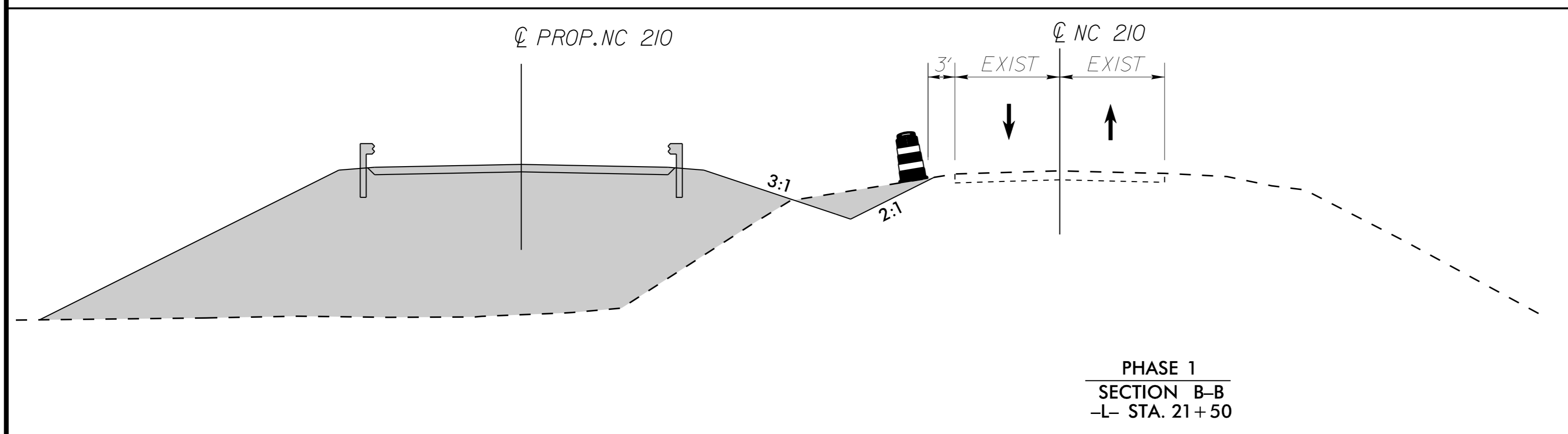
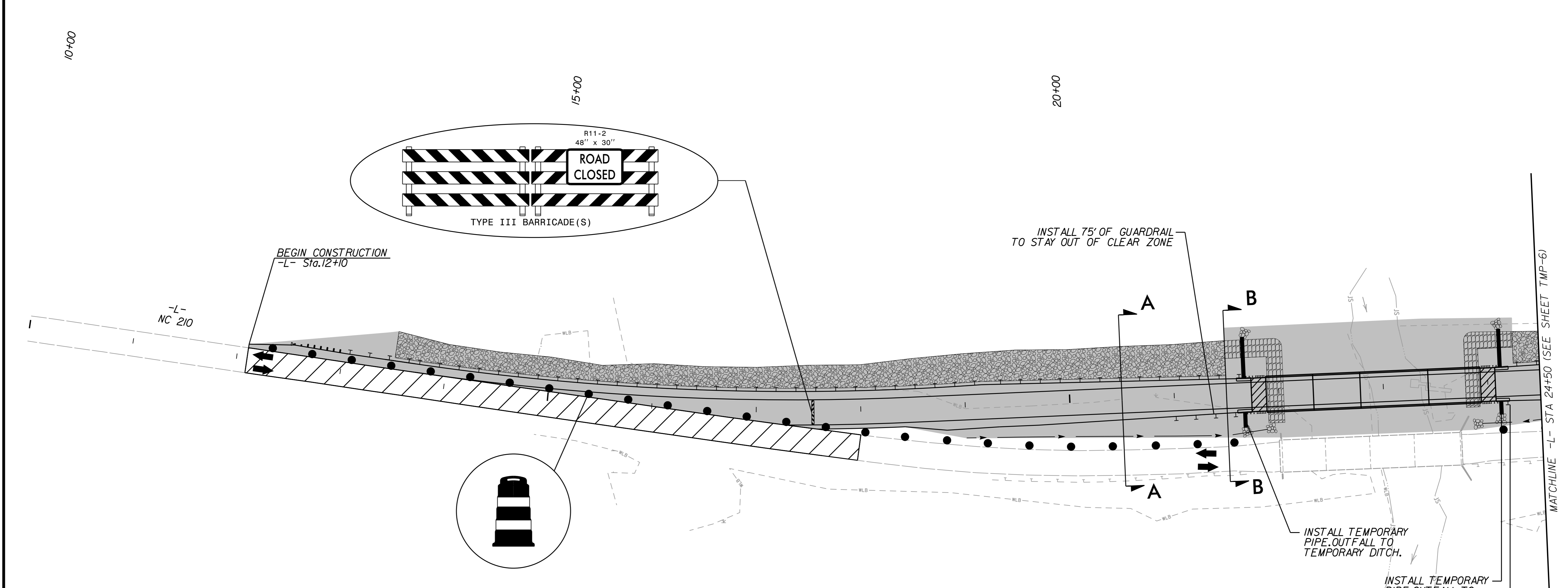
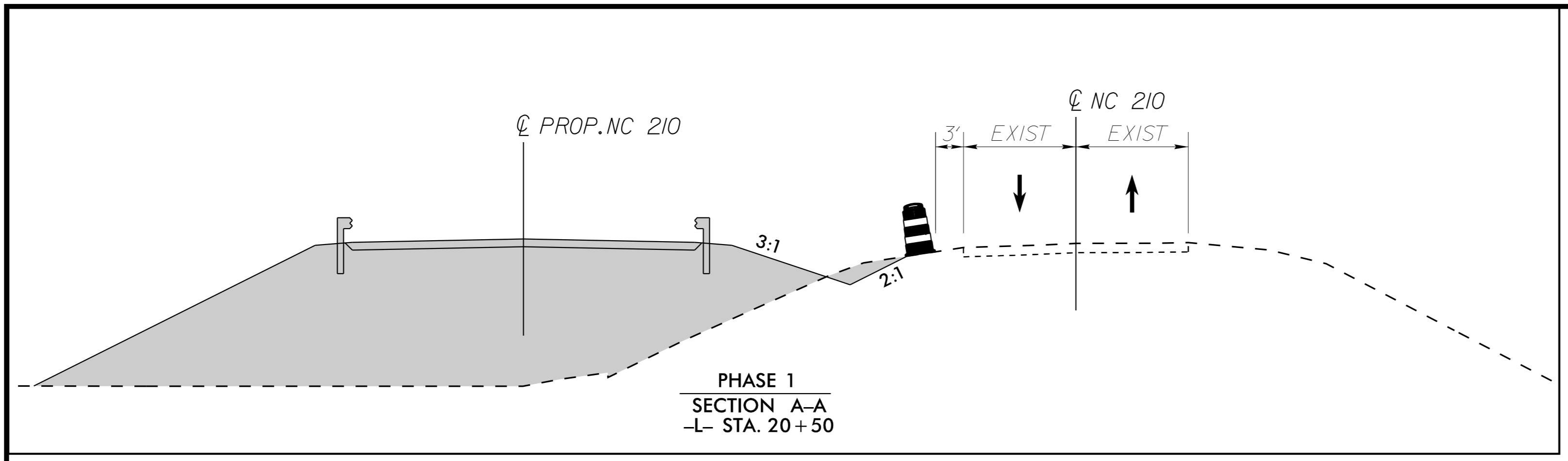
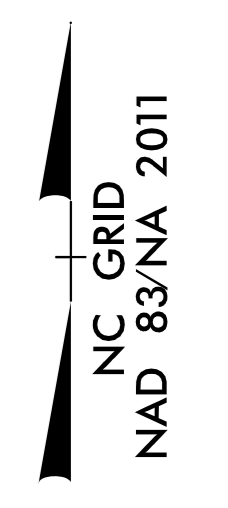
APPROVED: _____ DATE: _____	 <small>3/8/2024</small>	 <small>DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</small>	<h3>TEMPORARY SHORING NOTES</h3>
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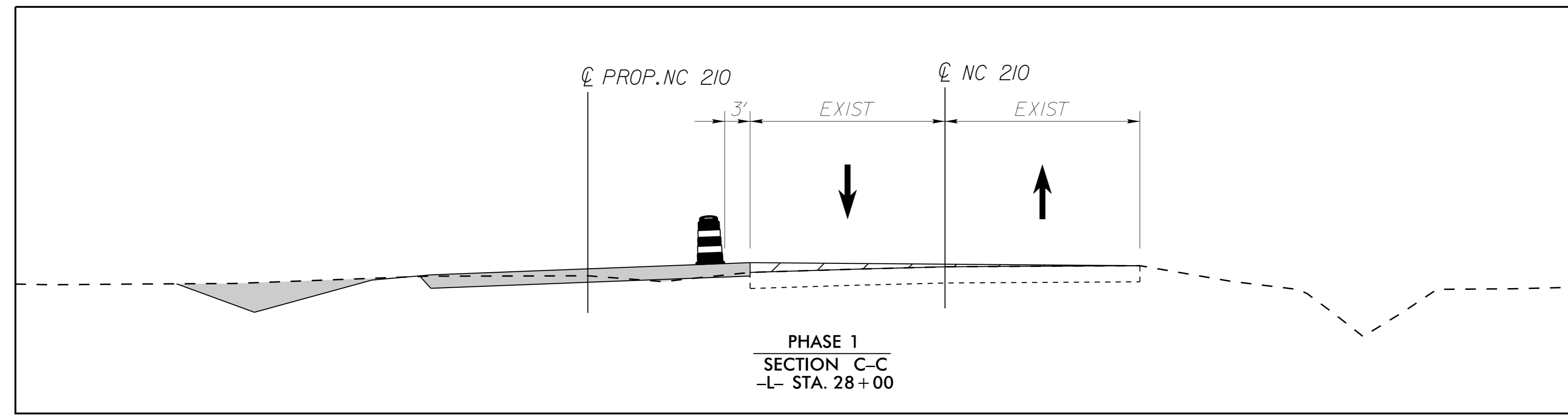
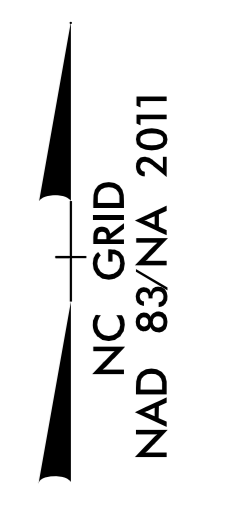
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APPROVED:	DATE:		<h2>PHASE 1A DETAILS</h2>
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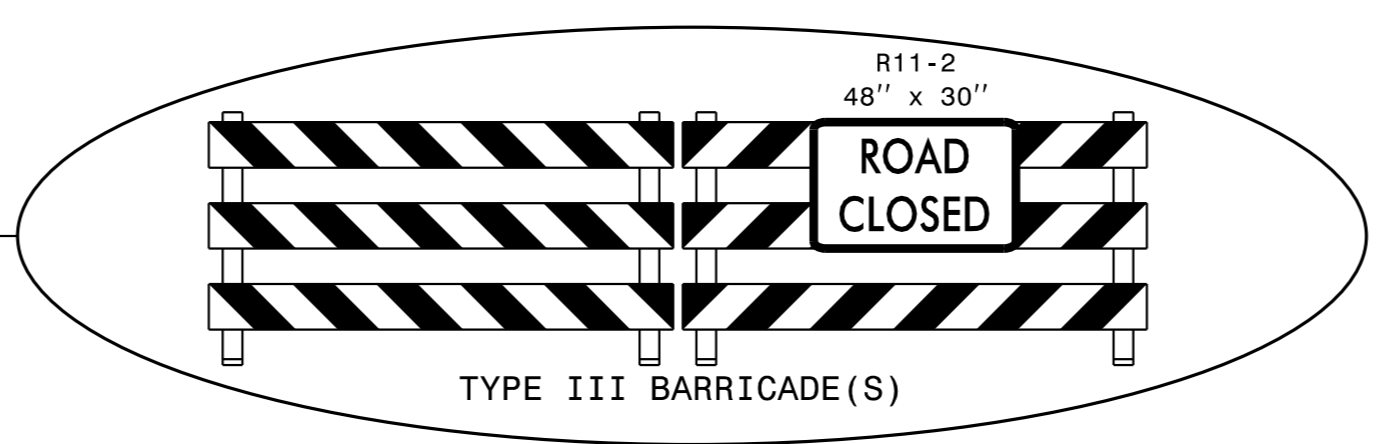
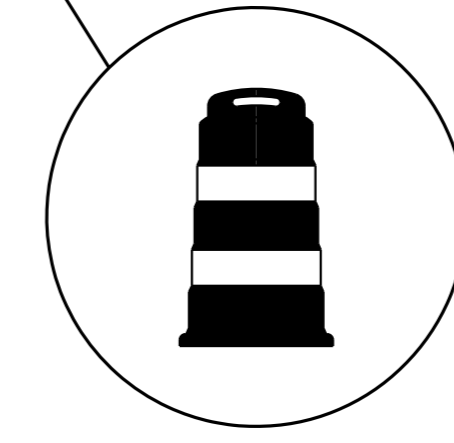
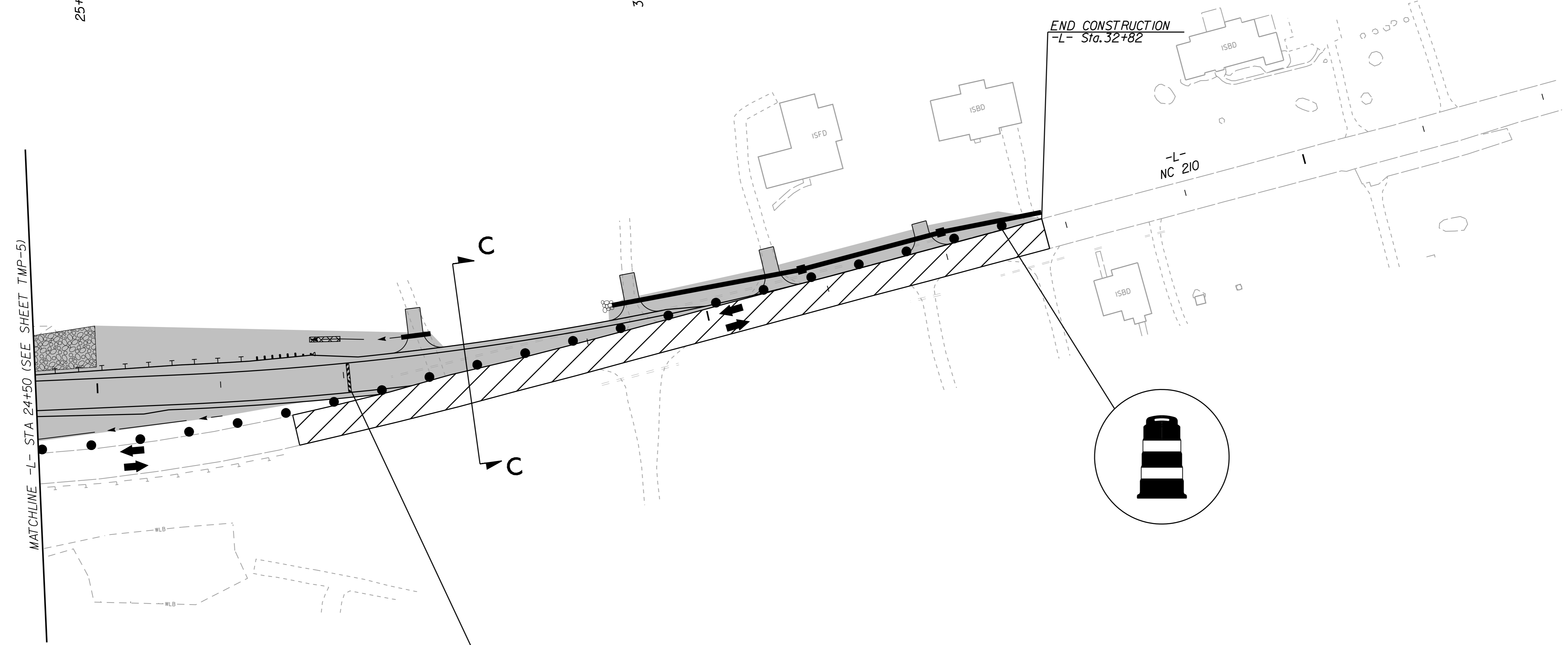
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25+00

30+00

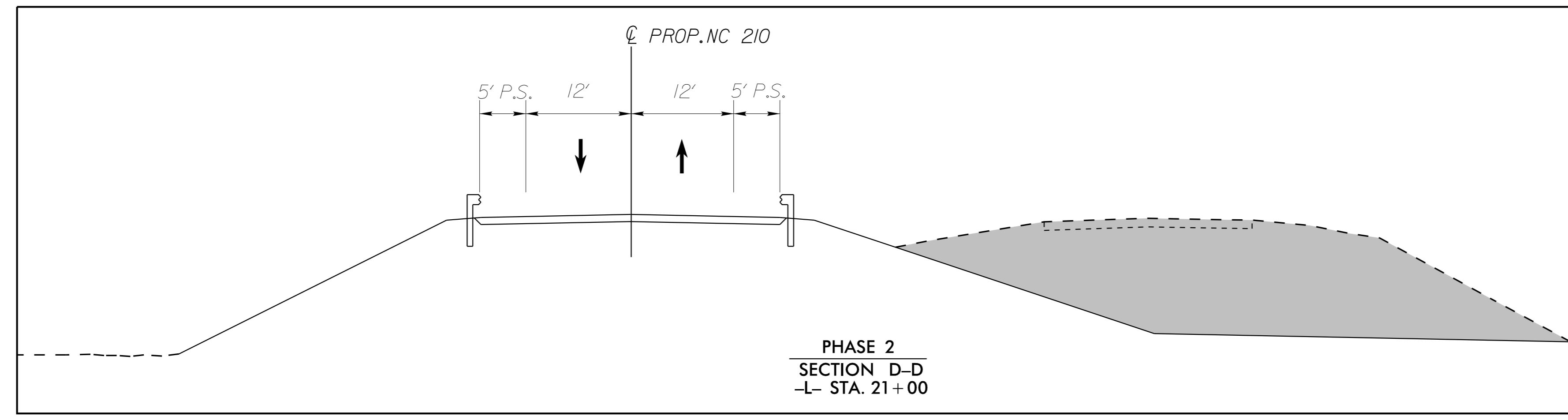
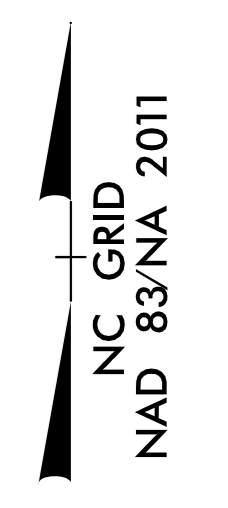
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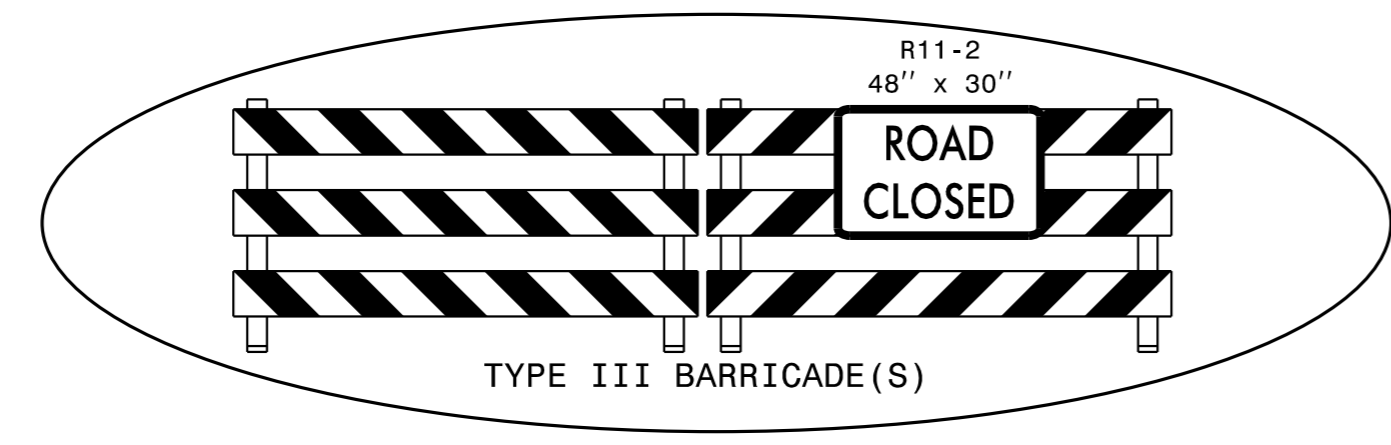
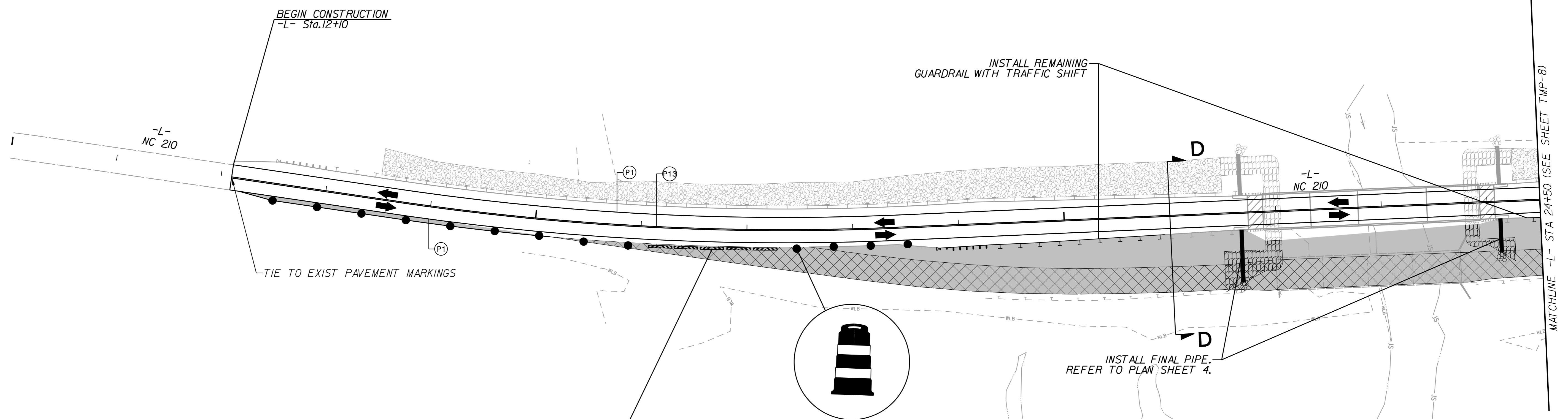
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10+00

15+00

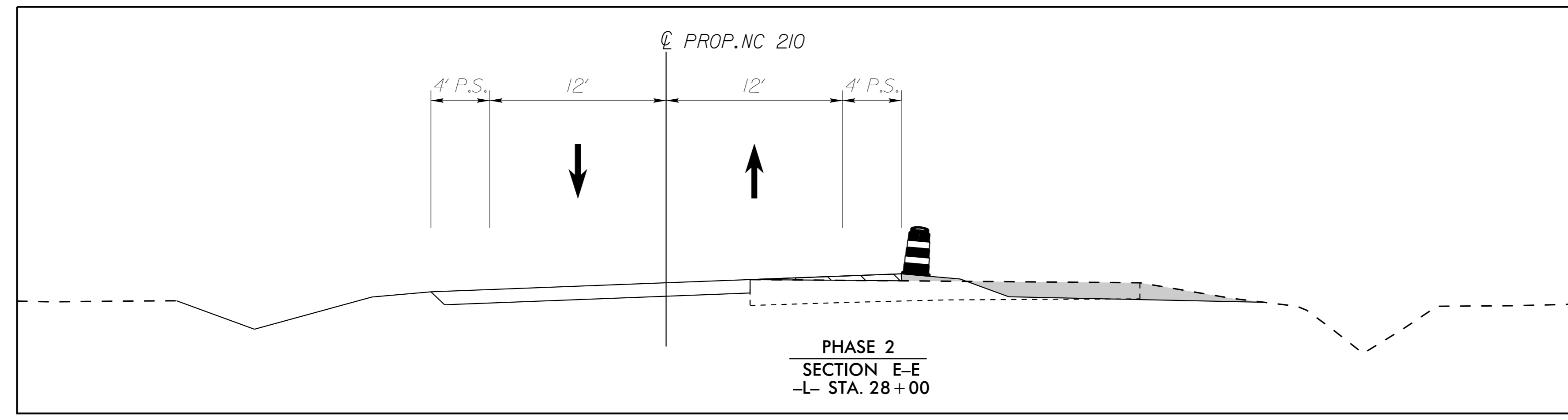
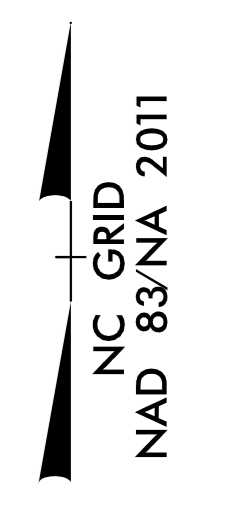
20+00



Kimley»Horn

APPROVED:	DATE:		<h2>PHASE 2 DETAILS</h2>
	3/8/2024		

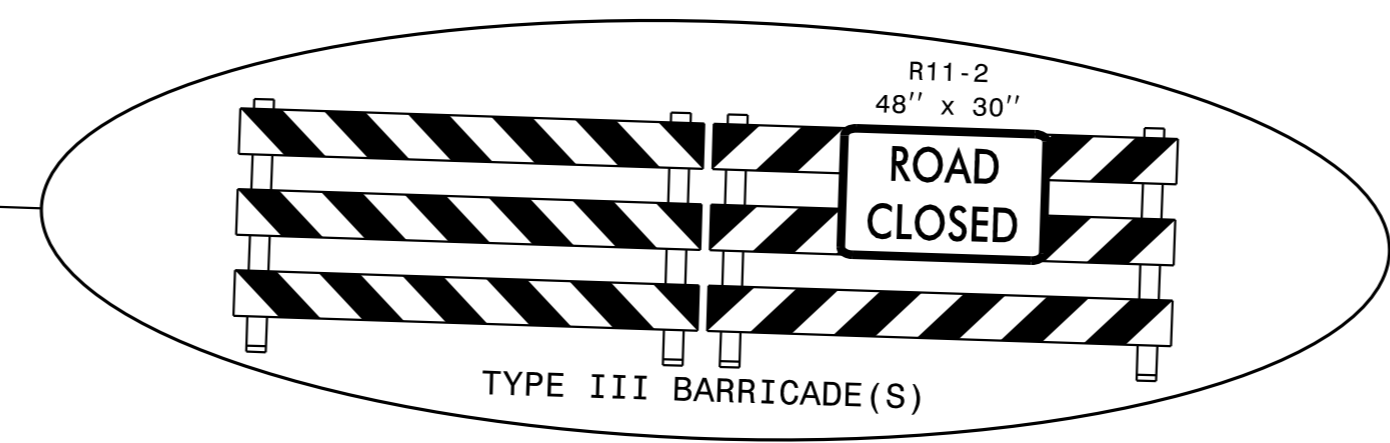
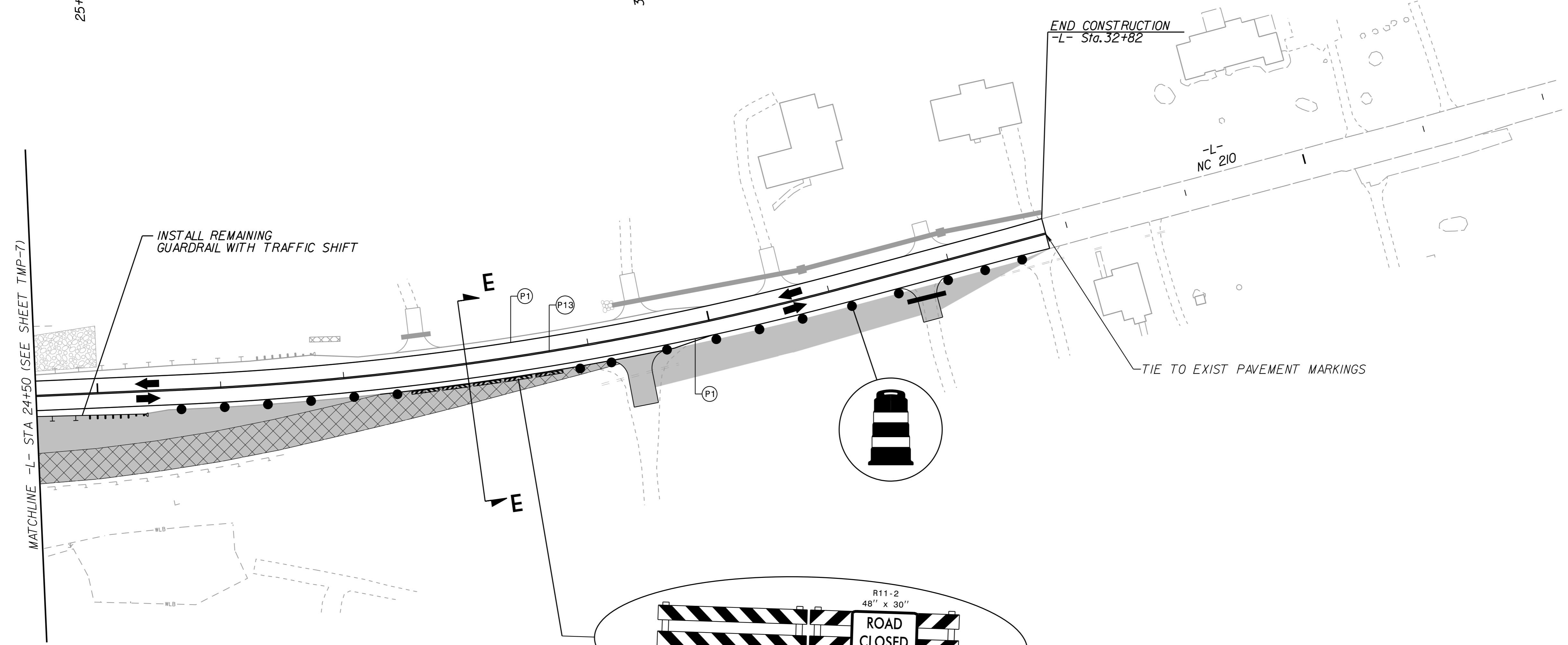
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25+00

30+00

35+00



K:\RAL_Roadway\01036482 - B-5156\TrafficControl\CP\Plan Sheets\B5156_rdy_imp_psh_8.dgn 3/7/2024

Kimley»Horn

APPROVED:	DATE:		<p>PHASE 2 DETAILS</p>
	3/8/2024		