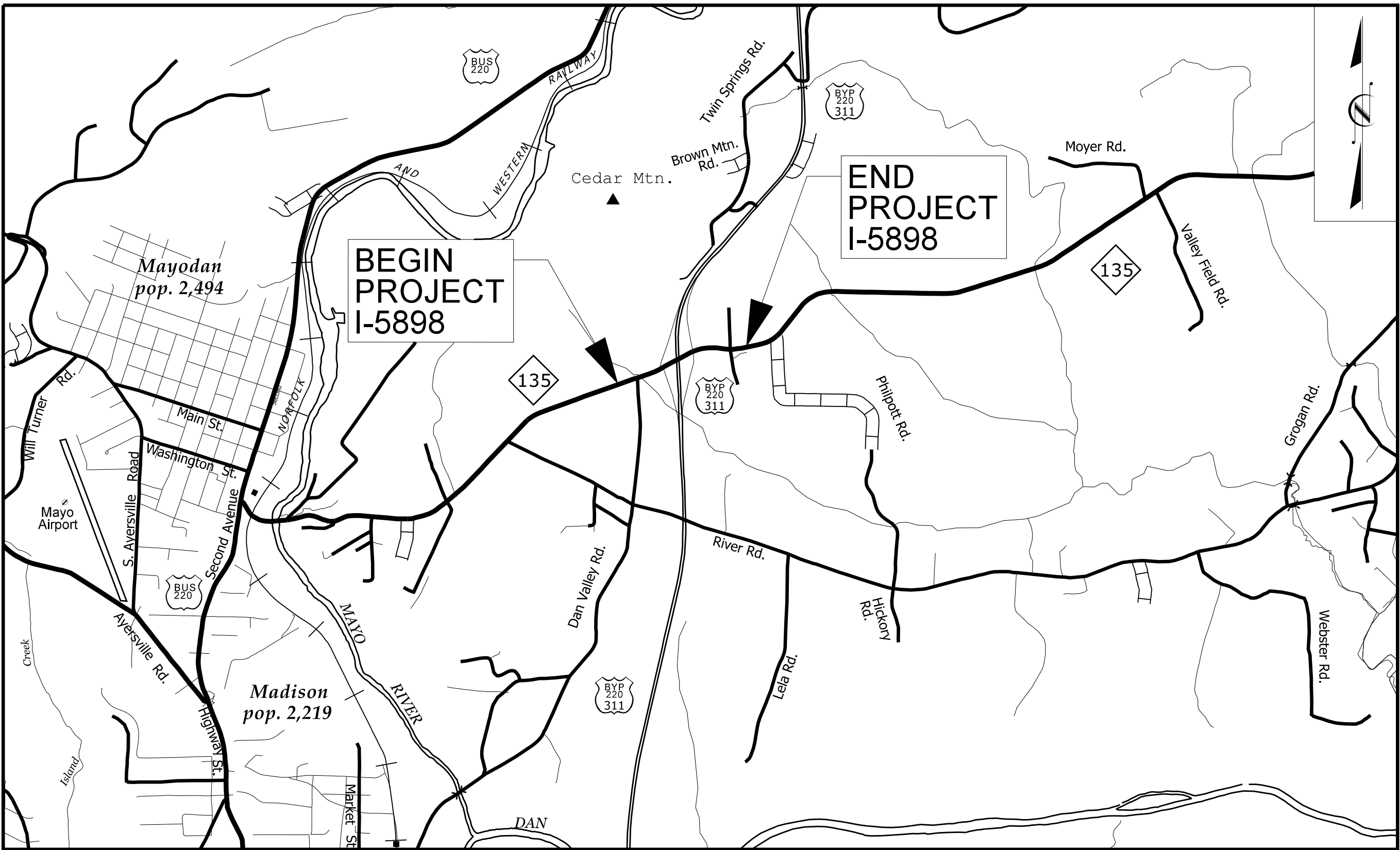
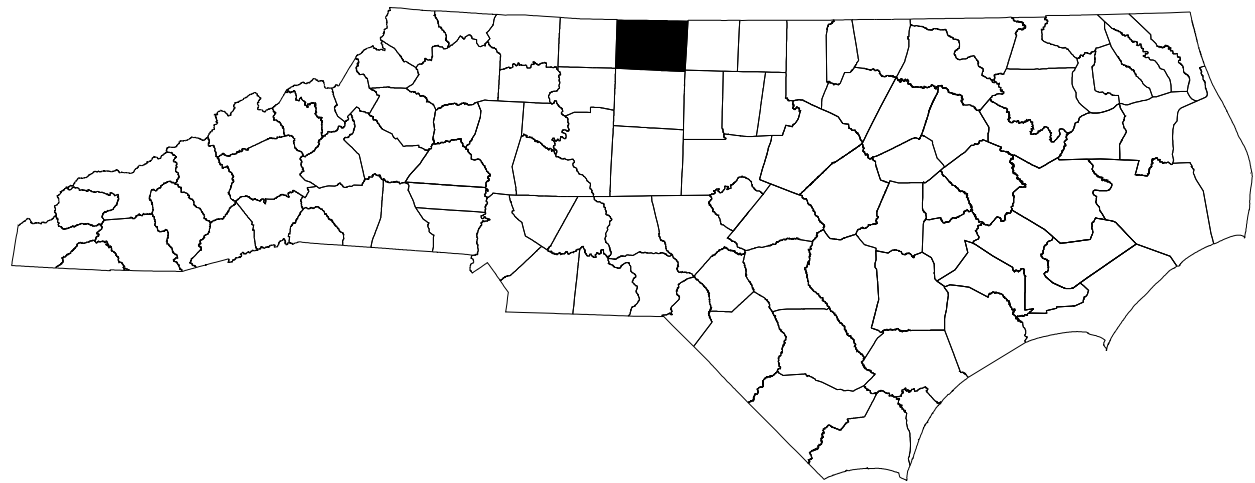


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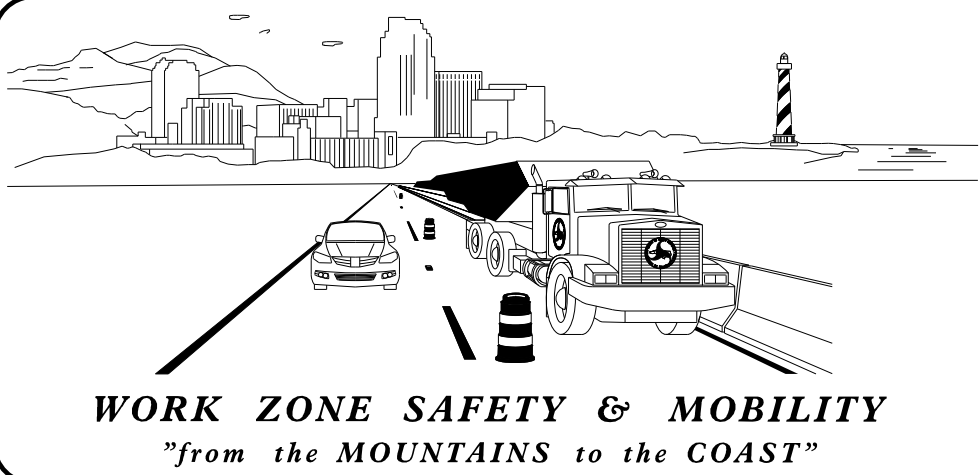
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

ROCKINGHAM COUNTY



LOCATION: FUTURE I-73 /US 220 AT US 311 /NC 135 INTERCHANGE



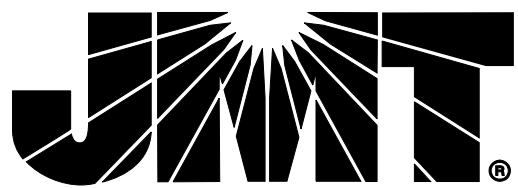
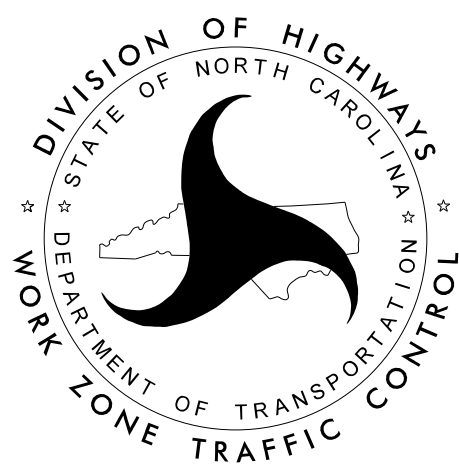
PLANS PREPARED BY:

CHARLES YOUNG, PE
PROJECT ENGINEER

COLTON M. RIDDLE, PE
PROJECT DESIGN ENGINEER

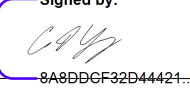
NCDOT CONTACT:

BRANDON GREEN, PE
PROJECT ENGINEER



Prepared In the Office of:
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Raleigh, NC, 27609
License No: C-3097

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INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B-1C	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-1D	TEMPORARY SHORING NOTES
TMP-2	SPECIAL SIGN DESIGN
TMP-2A	PHASE 2 DETOUR ROUTE
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TMP-2B.1-TMP-2B.2	PHASE 4 NIGHTLY CLOSURE DETOUR ROUTE
TMP-3	PHASING NOTES
TMP-4 TO TMP-5	PHASE I DETAIL SHEETS
TMP-6 TO TMP-9	PHASE II DETAIL SHEETS
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SHEET NO.

TMP-1

TIP PROJECT: I-5898

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATE 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
1101.03	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	FLAGGERS
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
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
1205.09	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
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)

WORK AREAS

- CURRENT PHASE WORK AREA
- ONGOING CONSTRUCTION
- TEMPORARY PAVEMENT
- PAVEMENT REMOVAL

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

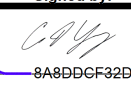
PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

MATERIAL	SYMBOL	DESCRIPTION	MATERIAL	SYMBOL	DESCRIPTION
PAINT (4")			PAINT (8")		
	P1	WHITE EDGELINE (4")		P40	WHITE GORELINE (8")
	P2	WHITE SOLID LANE LINE (4")		P41	WHITE DIAGONAL 8"
	P4	3 FT. - 9 FT./SP WHITE MINISKIP (4")		P42	YELLOW DIAGONAL (8")
	P10	YELLOW EDGELINE (4")		P43	WHITE SOLID LANE LINE (8")
	P11	YELLOW SINGLE CENTER (4")		P44	3 FT. - 9 FT./SP WHITE MINISKIP (8")
	P13	YELLOW DOUBLE CENTER LINE (4")	PAINT (24")		
PAINT (6")				P61	WHITE STOPBAR (24")
	P20	WHITE EDGELINE (6")			
	P21	WHITE SOLID LANE LINE (6")			
	P22	10 FT. WHITE SKIP (6")			
	P30	YELLOW EDGELINE (6")			
PAINT PAVEMENT MARKING SYMBOLS					
P70		LEFT TURN ARROW			
P71		RIGHT TURN ARROW			
P72		STRAIGHT ARROW			
P73		COMBO. LEFT/STRAIGHT ARROW			
P74		COMBO. RIGHT/STRAIGHT ARROW			
P100		ALPHANUMERIC CHARACTER			

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046062
ENGINEER
CHARLES J. YOUNG

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

ROADWAY STANDARD
DRAWINGS & LEGEND



Johnson, Mirmiran, & Thompson Inc.
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Raleigh, NC, 27606
License No: C-3097

MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

TRAFFIC MANAGEMENT STRATEGIES:

- FULL ROADWAY CLOSURES
- ROLLING ROADBLOCK
- LANE SHIFTS OR CLOSURES
- SHOULDER CLOSURES
- ONE-LANE, TWO WAY OPERATION (FLAGGING)
- RAMP CLOSURES / RELOCATION
- NIGHT WORK
- WEEKEND WORK
- WORK HOUR RESTRICTIONS FOR PEAK TRAVEL
- OFF-SITE DETOURS / USE OF ALTERNATIVE ROUTES

WORK ZONE SAFETY & MOBILITY STRATEGIES:

- TEMPORARY TRAFFIC SIGNALS

CORRIDOR / NETWORK MANAGEMENT STRATEGIES:

- SIGNAL TIMING / COORDINATION IMPROVEMENTS
- TRUCK / HEAVY VEHICLE RESTRICTIONS

TRAFFIC / INCIDENT MANAGEMENT & SPEED ENFORCEMENT STRATEGIES:

- COORDINATION WITH STATE TRAFFIC OPERATIONS CENTER (STOC)
- COORDINATION WITH MEDIA
- LOCAL DETOUR ROUTES
- COOPERATIVE LAW ENFORCEMENT (HAWKS)

CONTRACTING & INNOVATIVE CONSTRUCTION STRATEGIES:

- INTERMEDIATE CONTRACT TIMES / LIQUIDATED DAMAGES
- INNOVATIVE CONSTRUCTION TECHNIQUES (PRECAST MEMBERS, RAPID CURE MATERIALS)

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 UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
US 220/US 311 & ANY RAMP	MONDAY THRU SUNDAY 5:00 A.M. TO 9:00 P.M.
NC 135	MONDAY THRU FRIDAY 6:00 A.M. TO 9:00 A.M. & 4:00 P.M. TO 7:00 P.M.

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

ROAD NAME
ANY ROAD

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 9:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 9:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 9:00 P.M. TUESDAY.

- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 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 9:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 9:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 9:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
RAMP B (-RP B-) & RAMP C (-RP C-)	MONDAY THRU SUNDAY 5:00 A.M. TO 12:00 A.M.

D) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
US 220/US 311	MONDAY THRU SUNDAY 5:00 A.M. TO 12:00 A.M.	20 MIN., TIE-INS, MARKING PLACEMENT, TRAFFIC SHIFTS; 30 MIN., OVERHEAD WORK (NC 135)
NC 135	MONDAY THRU FRIDAY 6:00 A.M. TO 9:00 A.M. & 4:00 P.M. TO 7:00 P.M.	20 MIN., TIE-INS, MARKING PLACEMENT, TRAFFIC SHIFTS

- 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

- 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.

- 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.

- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 5 FT OF AN OPEN TRAVEL LANE ON AN UNDIVDED FACILITY, 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 WITHIN 10 FT OF AN OPEN TRAVEL LANE ON A DIVIDED FACILITY, 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 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.

- 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.

- DO NOT INSTALL MORE THAN ONE SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON ANY ROAD.

- DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON ANY ROAD.

- USE SEQUENTIAL FLASHING WARNING LIGHTS ON DRUMS USED FOR THE MERGING TAPERS OF NIGHTTIME LANE CLOSURES IN ACCORDANCE WITH SECTION 1140 IN THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.

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

PAVEMENT EDGE DROP OFF REQUIREMENTS

- 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.

- DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT. IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- 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.

- 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.

- 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.

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

- 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 BARRIER

- 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. USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS 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.

PROJ. REFERENCE NO.

SHEET NO.

I-5898

TMP-1B



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ENGINEER
CHARLES J. YOUNG

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TRANSPORTATION
OPERATIONS
PLAN

GENERAL NOTES
CONT.

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.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

TRAFFIC CONTROL DEVICES

BB) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

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

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

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
US 220/311 (-L-)	PAINT (6")	TEMPORARY RAISED
ALL OTHER ROADS	PAINT (4")	NONE

HH) 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.

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

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

KK) TRACE THE EXISTING AND PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVAL AND INSTALLATION. PLACE DRUMS TO DELINEATE ANY EXISTING AND PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION.

MISCELLANEOUS

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

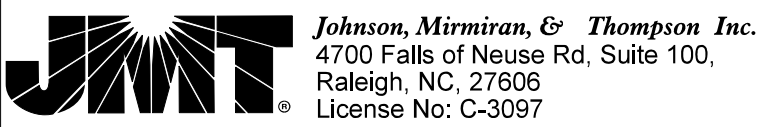
MM) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

NN) 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.).

OO) NOTIFY THE NCDOT STATEWIDE TRANSPORTATION OPERATIONS CENTER (STOC) AT 877-627-7862 APPROXIMATELY 30 MINUTES PRIOR TO INSTALLING AND WITHIN 15 MINUTES AFTER REMOVING LANE CLOSURES ON INTERSTATES, FREEWAYS, CONTROLLED ACCESS FACILITIES, AND US ROUTES.

LOCAL NOTES

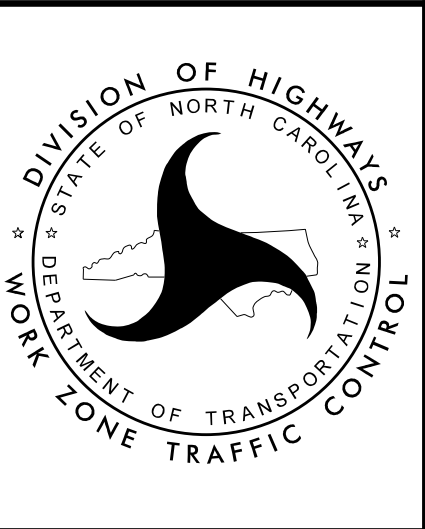
1) EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED AT ALL TIMES.



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TRANSPORTATION
OPERATIONS
PLAN

PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-1D

TEMPORARY SHORING LOCATION NO. 01

SEE SHEET TMP-5

ESTIMATED QUANTITY = 1035 SQ. FT.

-Y- STA. 117+25±, 40.0' RT, TO -Y- STA. 118+67±, 44.5' RT.
LENGTH = 142' AVERAGE HEIGHT = 7.3' MAXIMUM HEIGHT = 19'

- FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
- DESIGN TEMPORARY SHORING FROM STATION 117+25±-Y-, 40.0 FT. RT. TO STATION 118+67±-Y-, 44.5 FT. RT. FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
UNIT WEIGHT (γ) = 120 PCF
FRICTION ANGLE (ϕ) = 30 DEGREES
COHESION (c) = 0 PSF
GROUNDWATER ELEVATION = 667± FT
- BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
- LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION 117+25±-Y-, 40.0 FT. RT. TO STATION 118+67±-Y-, 44.5 FT. RT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.
- AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 117+25±-Y-, 40.0 FT. RT. TO STATION 118+67±-Y-, 44.5 FT. RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

TEMPORARY SHORING LOCATION NO. 02

SEE SHEET TMP-5

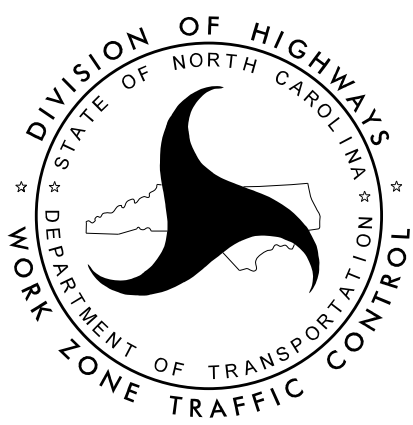
ESTIMATED QUANTITY = 880 SQ. FT.

-Y- STA. 120+33±, 40.0' RT, TO -Y- STA. 121+60±, 32.0' RT.
LENGTH = 125' AVERAGE HEIGHT = 7.5' MAXIMUM HEIGHT = 12.5'

- FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
- DESIGN TEMPORARY SHORING FROM STATION 120+33±-Y-, 40.0 FT. RT. TO STATION 121+60±-Y-, 32.0 FT. RT. FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
UNIT WEIGHT (γ) = 120 PCF
FRICTION ANGLE (ϕ) = 30 DEGREES
COHESION (c) = 0 PSF
GROUNDWATER ELEVATION = 670± FT
- BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
- LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION 120+33±-Y-, 40.0 FT. RT. TO STATION 121+60±-Y-, 32.0 FT. RT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.
- AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 120+33±-Y-, 40.0 FT. RT. TO STATION 121+60±-Y-, 32.0 FT. RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING ENGINEER. THE DOCUMENT WAS SUBMITTED TO JMT ON (SEPTEMBER 10, 2025) AND SEALED BY A PROFESSIONAL ENGINEER, (DAVID L. TEAGUE), LICENSE # 27869.

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TEMPORARY SHORING NOTES

SIGN NUMBER: SP-1

TYPE: STATIONARY

QUANTITY: SEE PLANS

SIGN WIDTH: 3'-0"

HEIGHT: 2'-0"

TOTAL AREA: 6.0 Sq.Ft.

BORDER TYPE: INSET

RECESS: 0.47"

WIDTH: 0.63"

RADII: 1.5"

NO. Z BARS:

LENGTH:

BACKG COLOR: Fluorescent Orange

COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: DAF

PROJECT ID: I-5898

CHECKED BY: CJY

Sep 16, 2024

DIV: 7



BORDER

R=1.5"

TH=0.63"

IN=0.47"

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner																								Series/Size Text Length
	M	A	Y	O	D	A	N																	D 2000
	5.5	9.2	12.9	16.8	20.5	23.8	27.8																	25
	E	D	E	N																				D 2000
	11.7	14.8	18.4	21.6																				12.6

NORTH CAROLINA D.O.T. SIGN DETAIL

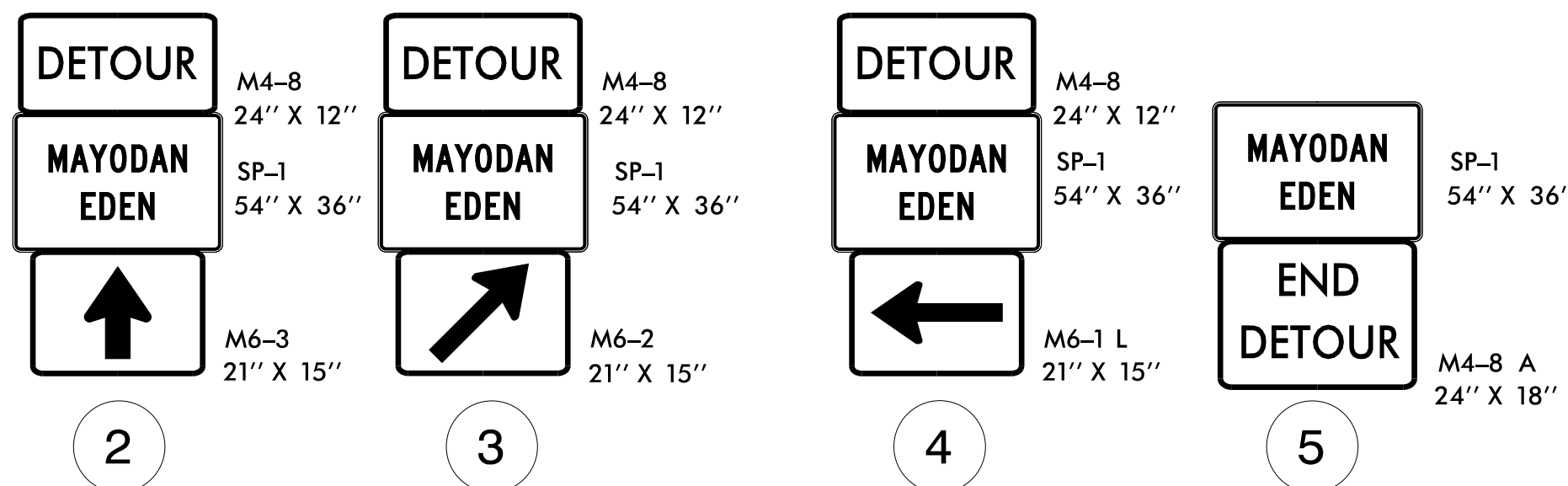
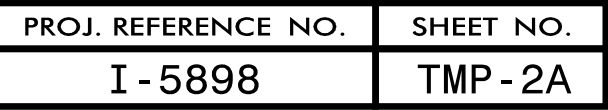
APPROVED:

DATE: 10/20/2025

SEAL

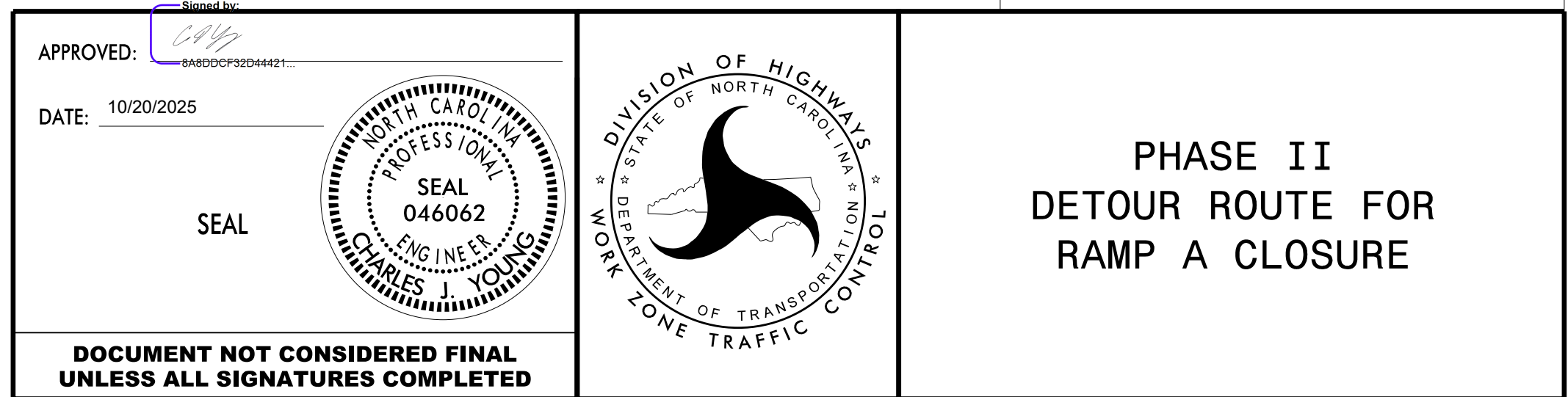
SPECIAL SIGN DESIGN

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



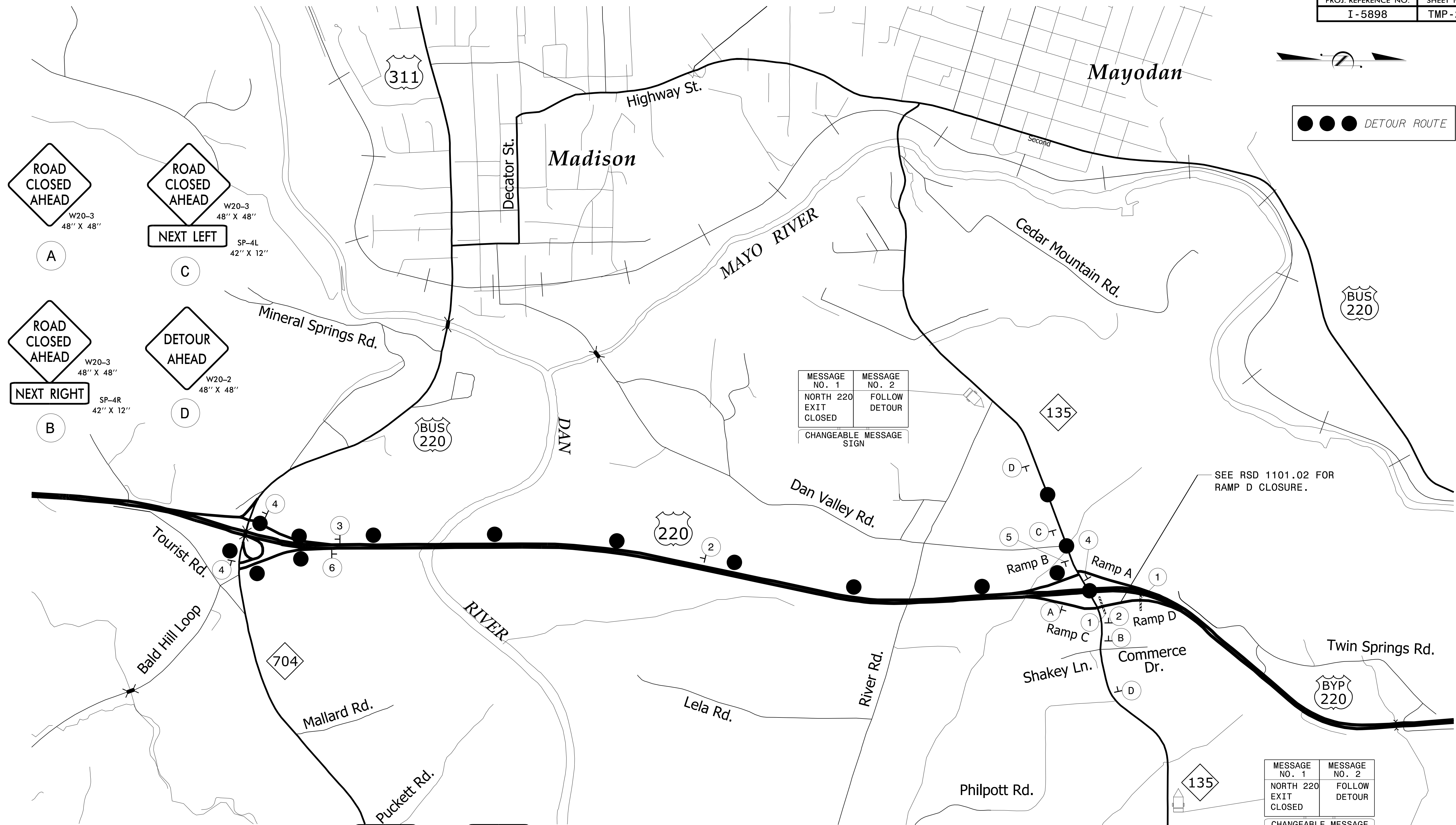
CHANGEABLE MESSAGE
SIGN

NOTE:
PLACE THESE CHANGEABLE MESSAGE SIGNS AT
HALF-MILE INTERVALS STARTING FROM THE
RAMP A CLOSURE.



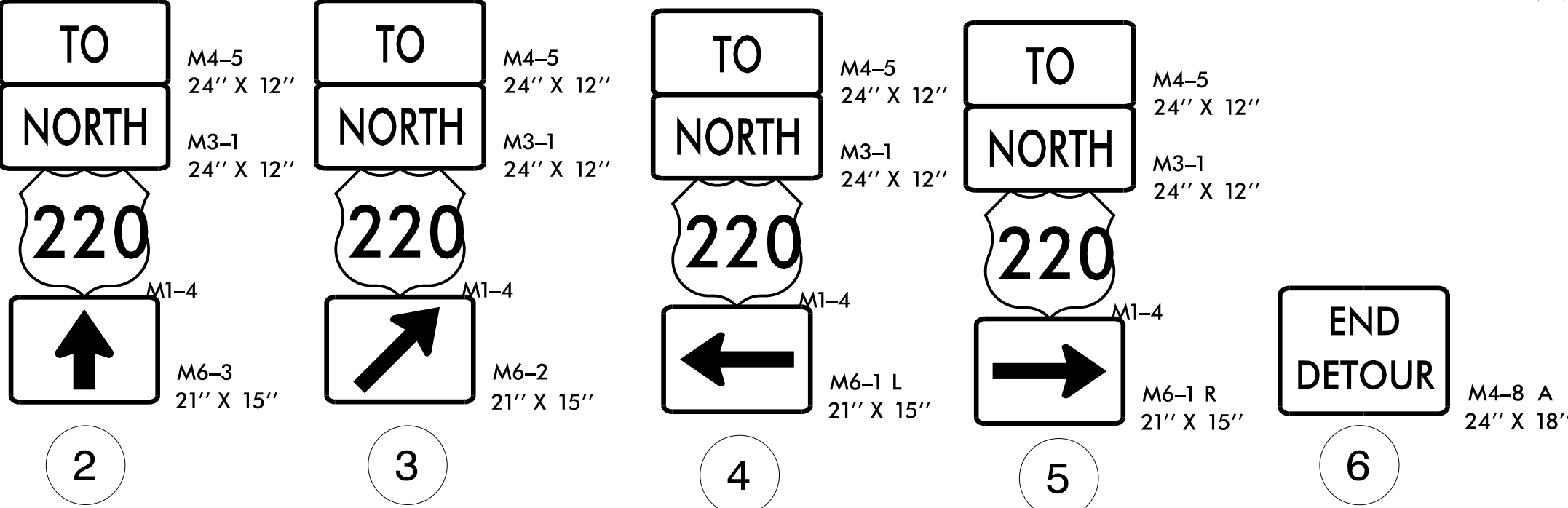
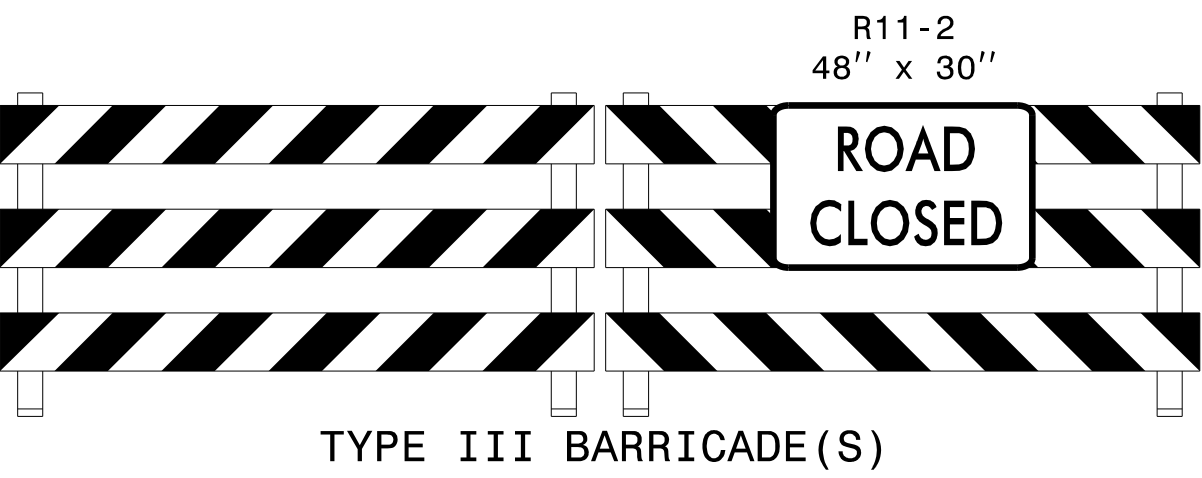


● ● ● DETOUR ROUTE



MESSAGE NO. 1	MESSAGE NO. 2
NORTH 220	FOLLOW
EXIT	DETOUR
CLOSED	
CHANGEABLE MESSAGE SIGN	

MESSAGE NO. 1	MESSAGE NO. 2
NORTH 220	FOLLOW
EXIT	DETOUR
CLOSED	
CHANGEABLE MESSAGE SIGN	



NOTE:
PLACE CHANGEABLE MESSAGE SIGNS AT A
HALF-MILE FROM THE
RAMP D CLOSURE.

APPROVED: _____
DATE: 10/20/2025

SEAL

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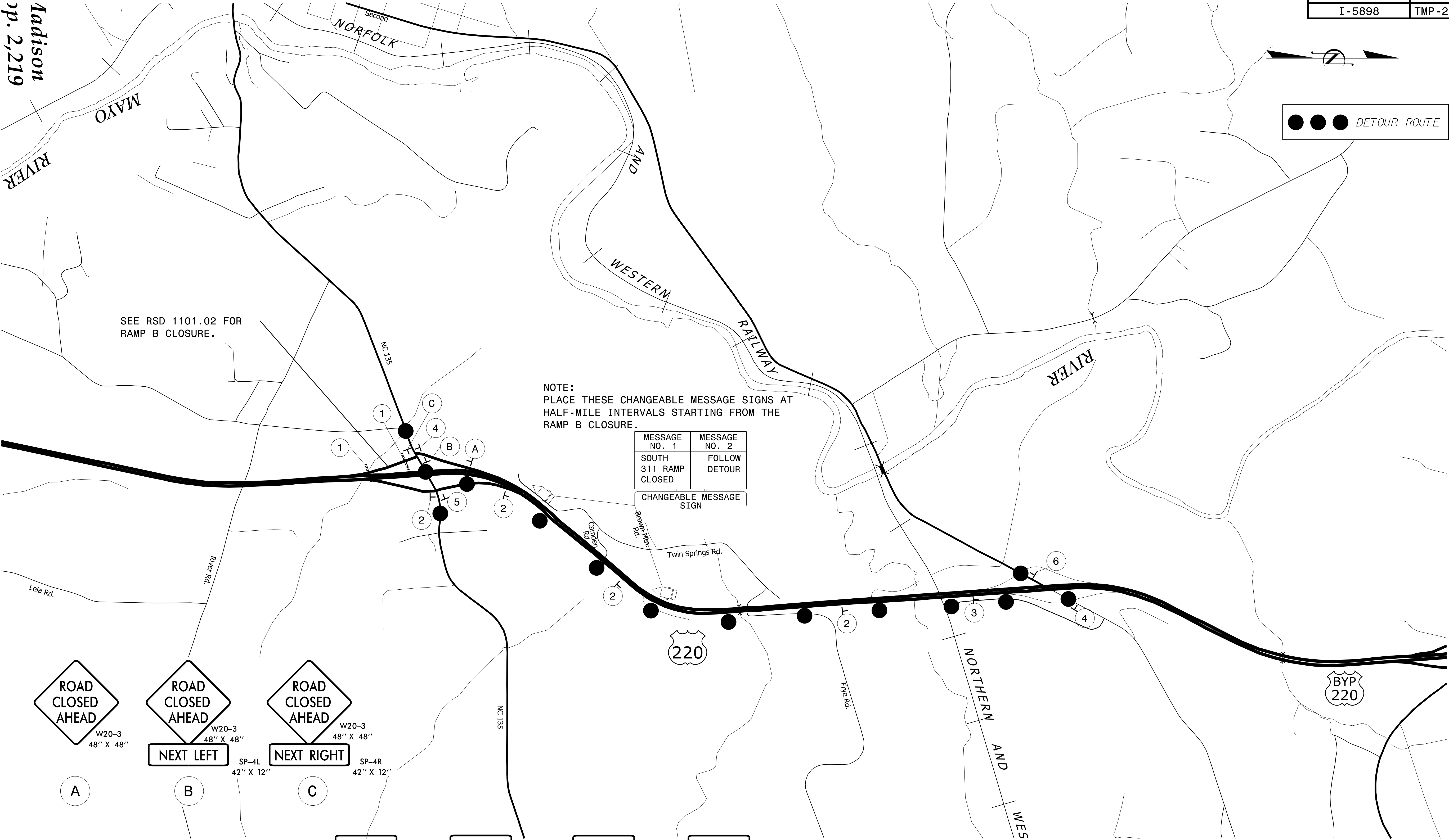


PHASE III
DETOUR ROUTE FOR
RAMP D CLOSURE



● ● ● DETOUR ROUTE

Madison
p. 2,219



SEE RSD 1101.02 FOR
RAMP B CLOSURE.

NOTE:
PLACE THESE CHANGEABLE MESSAGE SIGNS AT
HALF-MILE INTERVALS STARTING FROM THE
RAMP B CLOSURE.

MESSAGE NO. 1	MESSAGE NO. 2
SOUTH 311 RAMP CLOSED	FOLLOW DETOUR

CHANGEABLE MESSAGE
SIGN



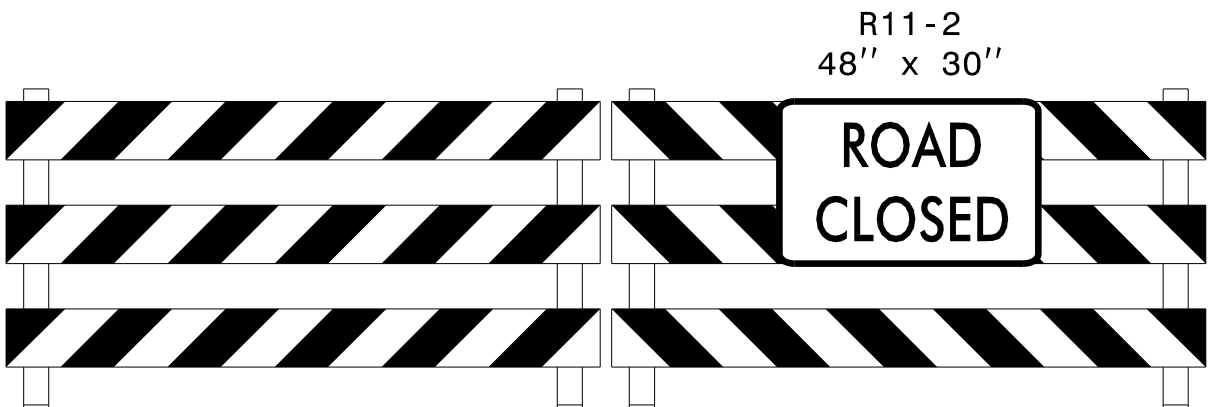
A



B



C



TYPE III BARRICADE(S)

1



2



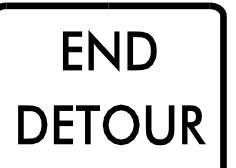
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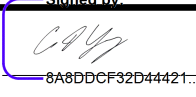
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5

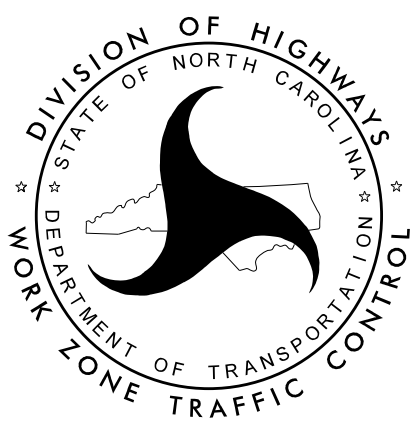


6

APPROVED: 
DATE: 10/20/2025

SEAL

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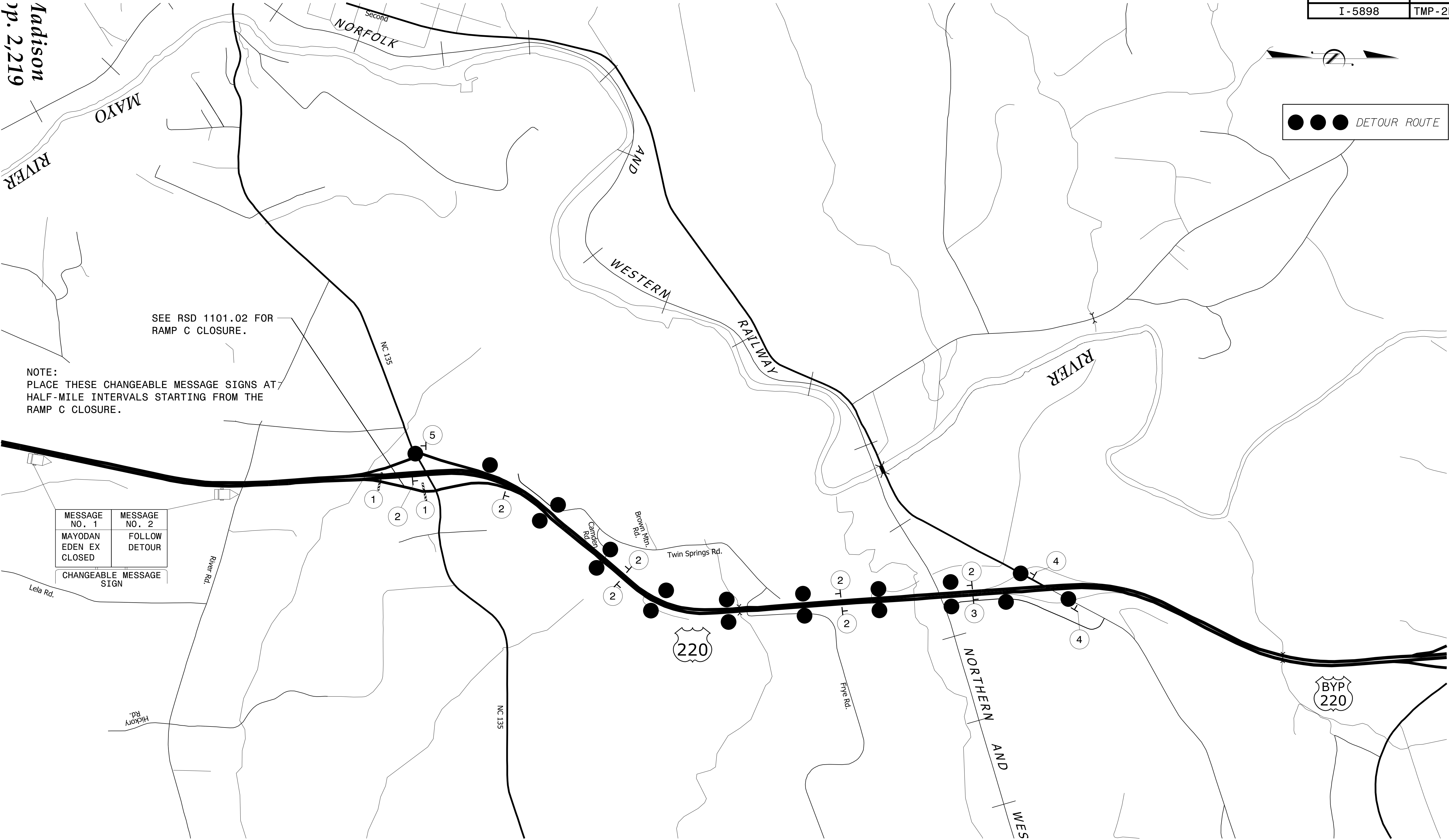


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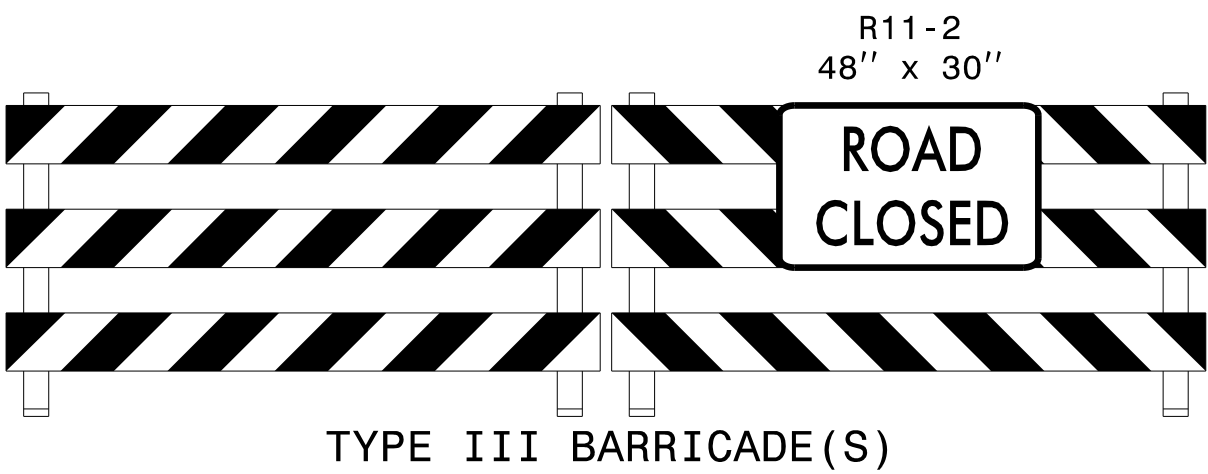
PHASE IV
DETOUR ROUTE FOR
RAMP B
NIGHT TIME
CLOSURE



● ● ● DETOUR ROUTE



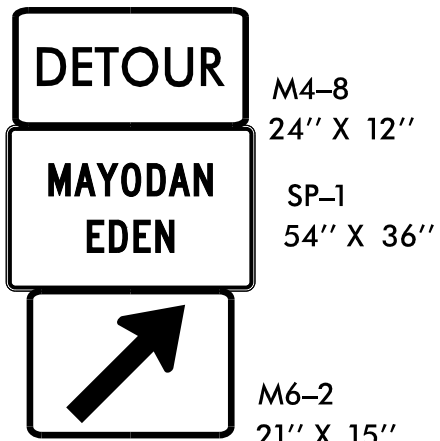
MESSAGE NO. 1	MESSAGE NO. 2
MAYODAN EDEN EX CLOSED	FOLLOW DETOUR
CHANGEABLE MESSAGE SIGN	



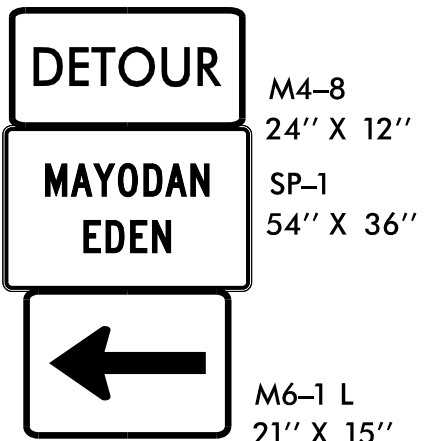
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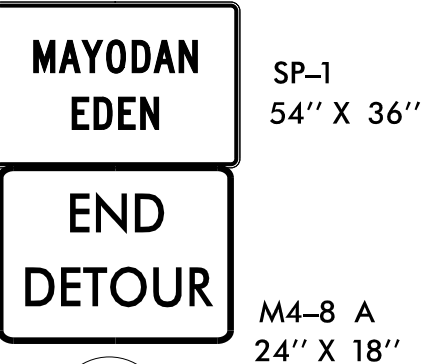
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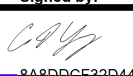
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4

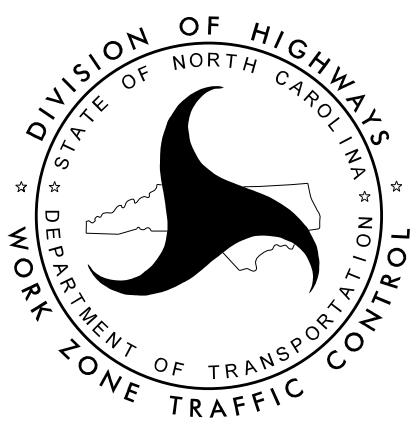


5

APPROVED: 
DATE: 10/20/2025

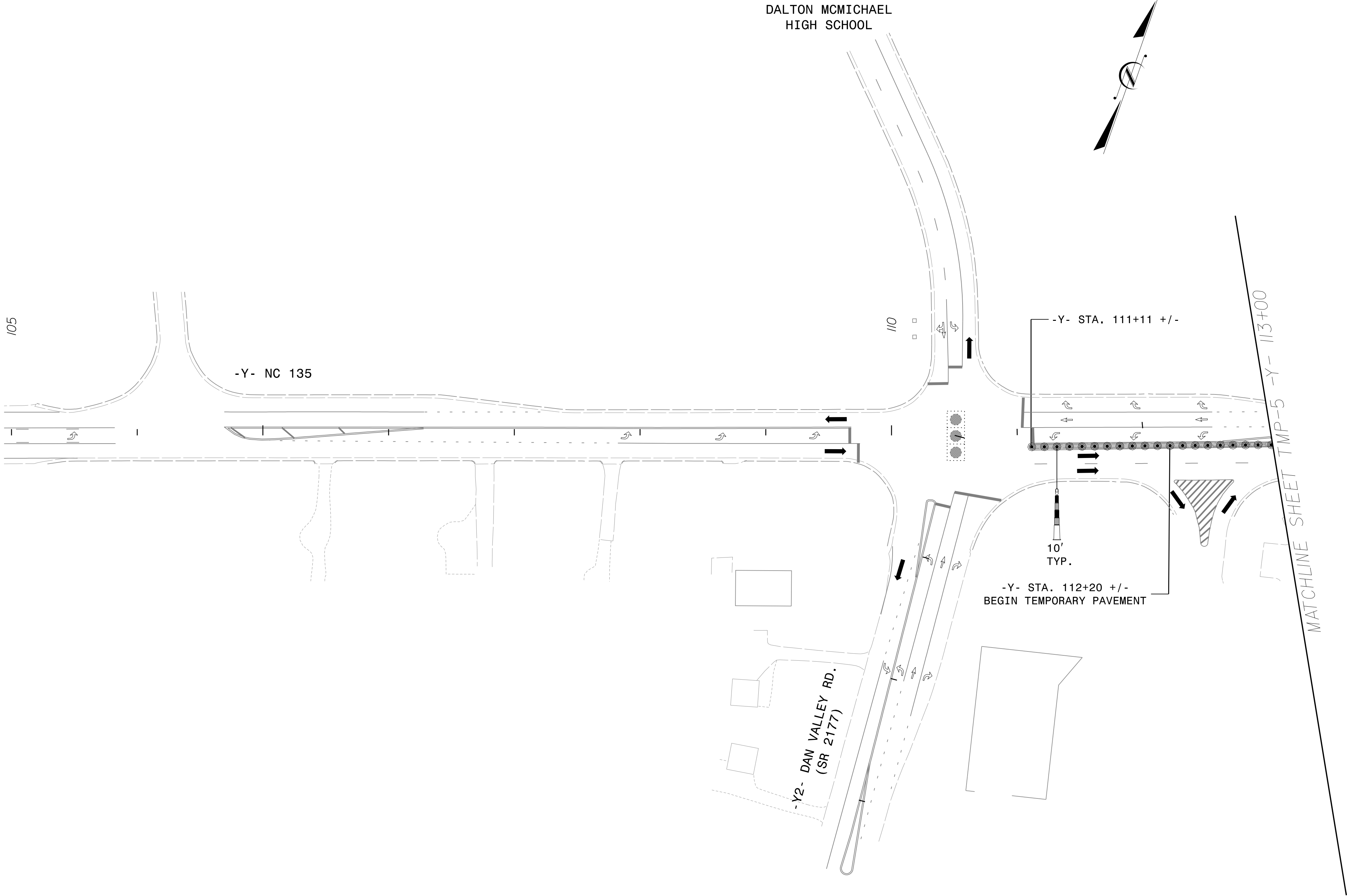
SEAL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

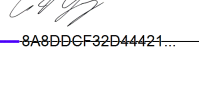


PHASE IV
DETOUR ROUTE FOR
RAMP C
NIGHT TIME
CLOSURE

PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-4

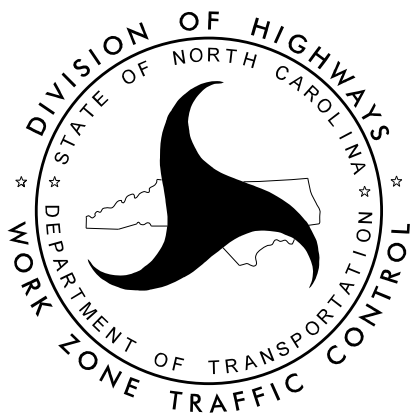
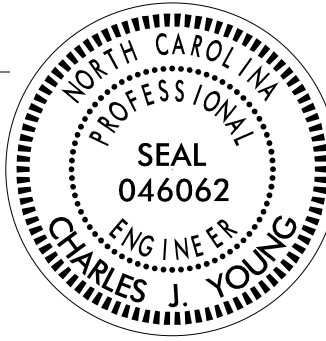


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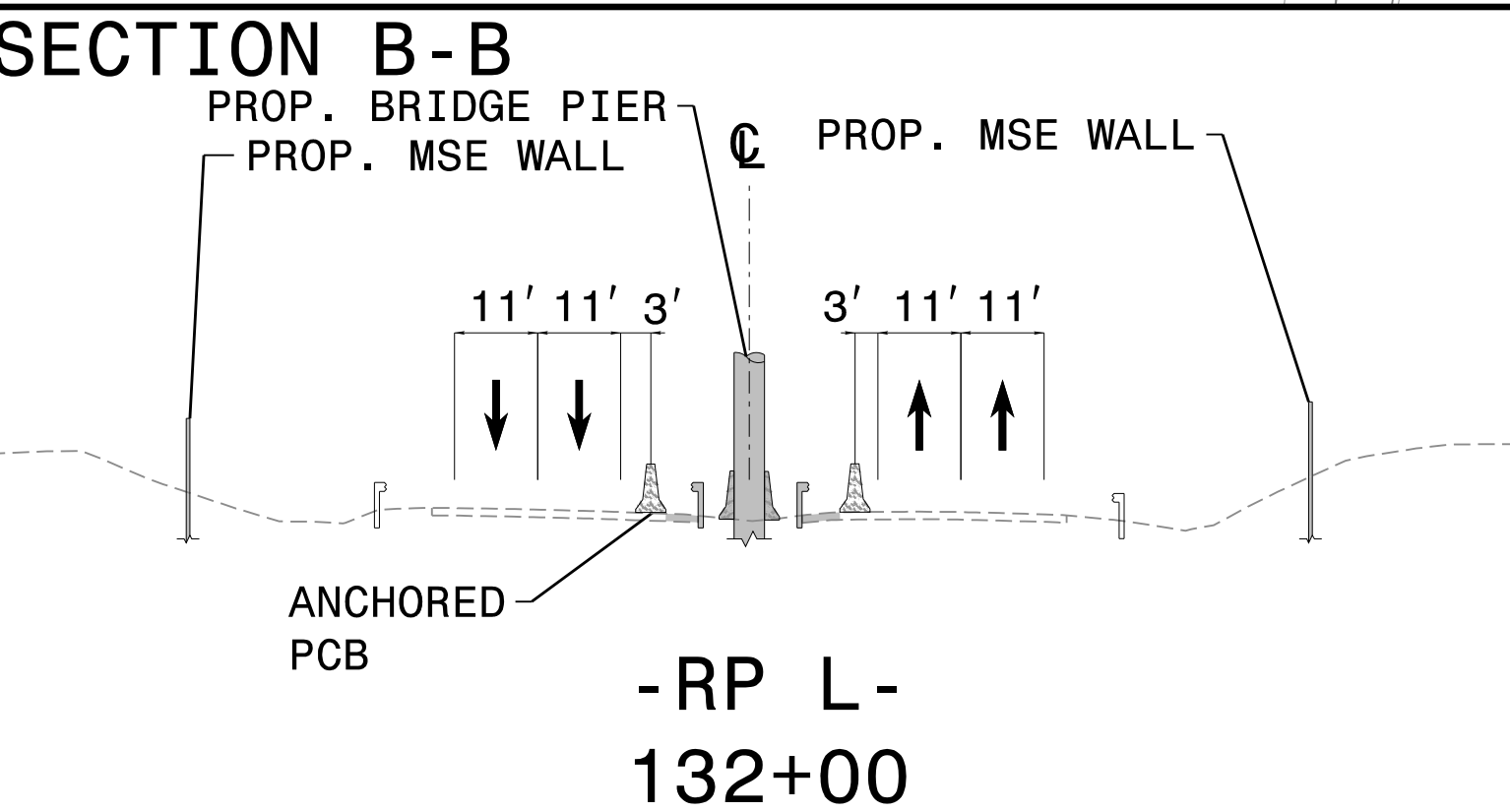
SEAL

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PHASE I
DETAIL

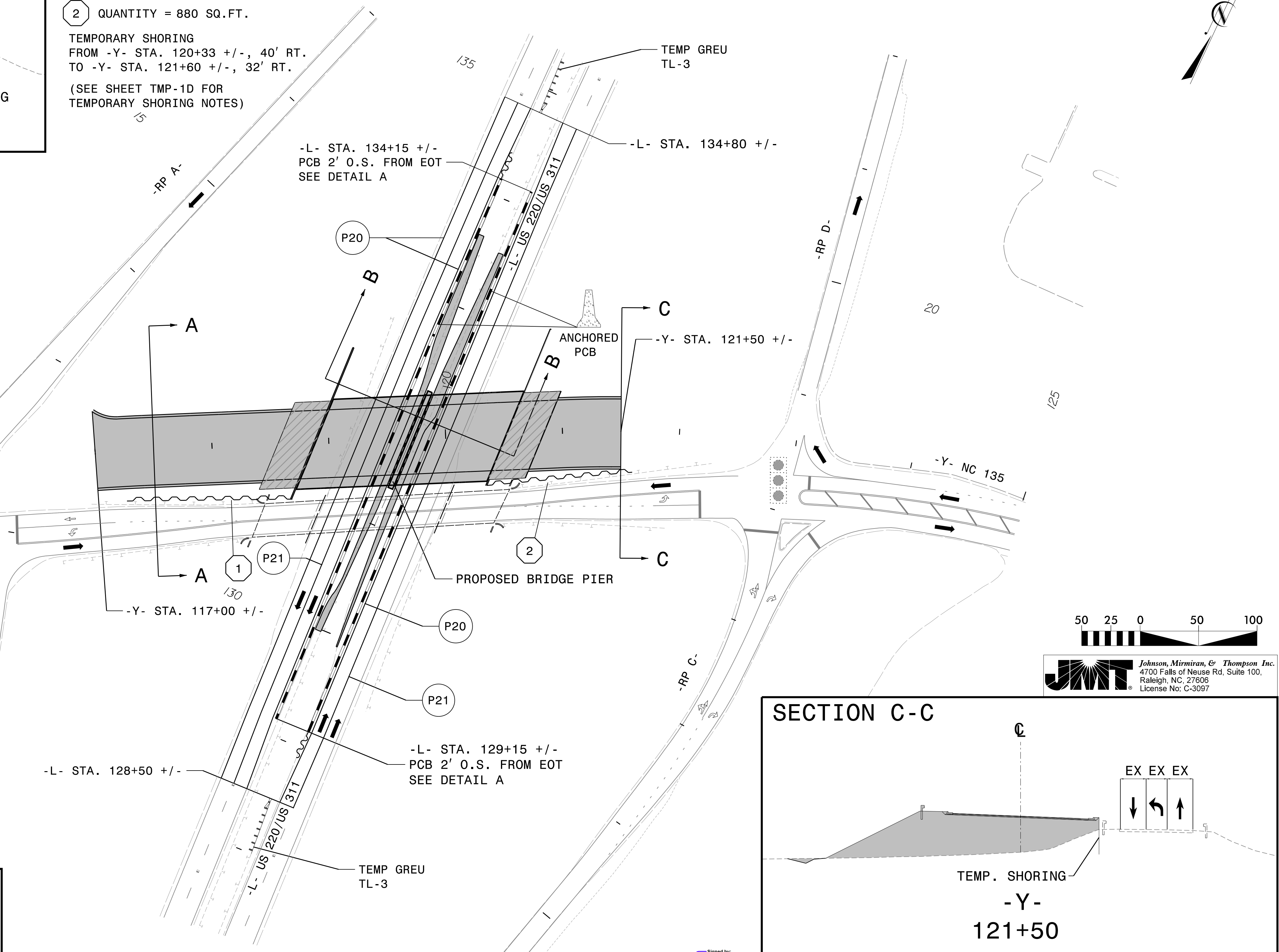
SECTION B-B



TEMPORARY SHORING
FROM -Y- STA. 117+25 +/-, 40' RT.
TO -Y- STA. 118+67 +/-, 44.5' RT.

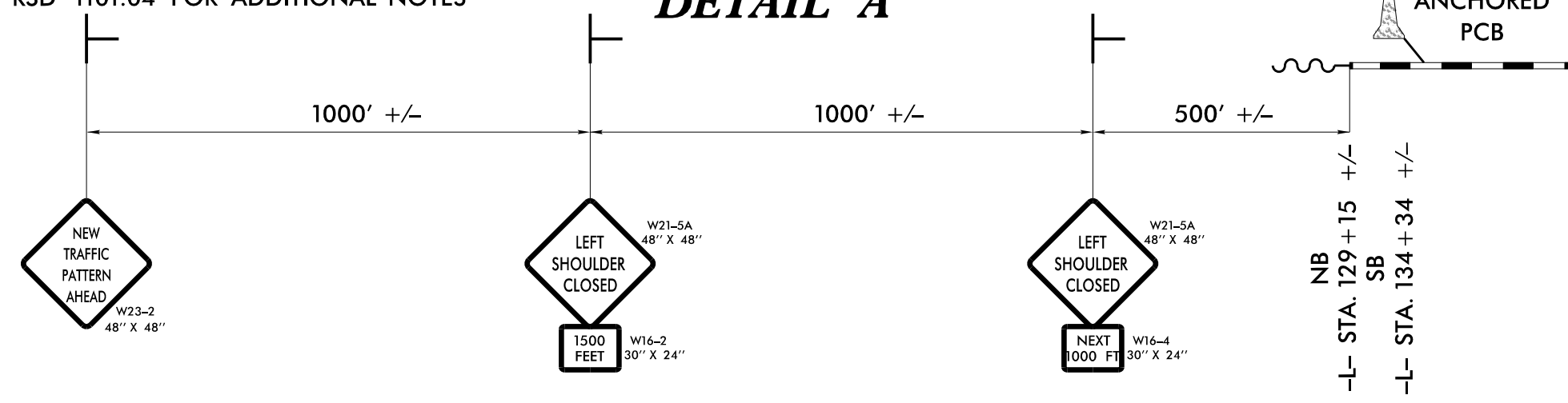
TEMPORARY SHORING
FROM -Y- STA. 120+33 +/-, 40' RT.
TO -Y- STA. 121+60 +/-, 32' RT.

(SEE SHEET TMP-1D FOR
TEMPORARY SHORING NOTES)



SEE RSD 1101.04 FOR ADDITIONAL NOTES

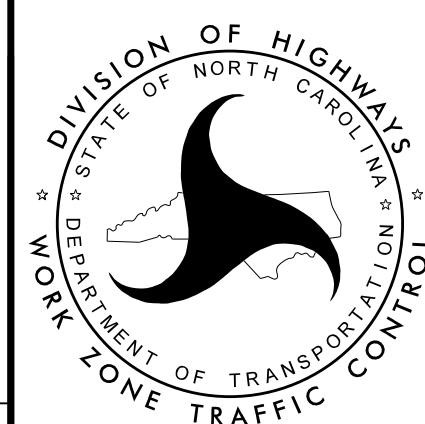
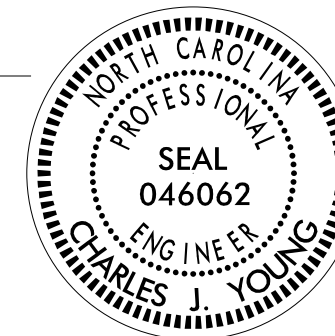
DETAIL A



APPROVED: 848DDCE32D66421

DATE: 10/20/2025

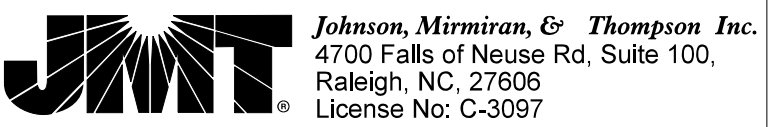
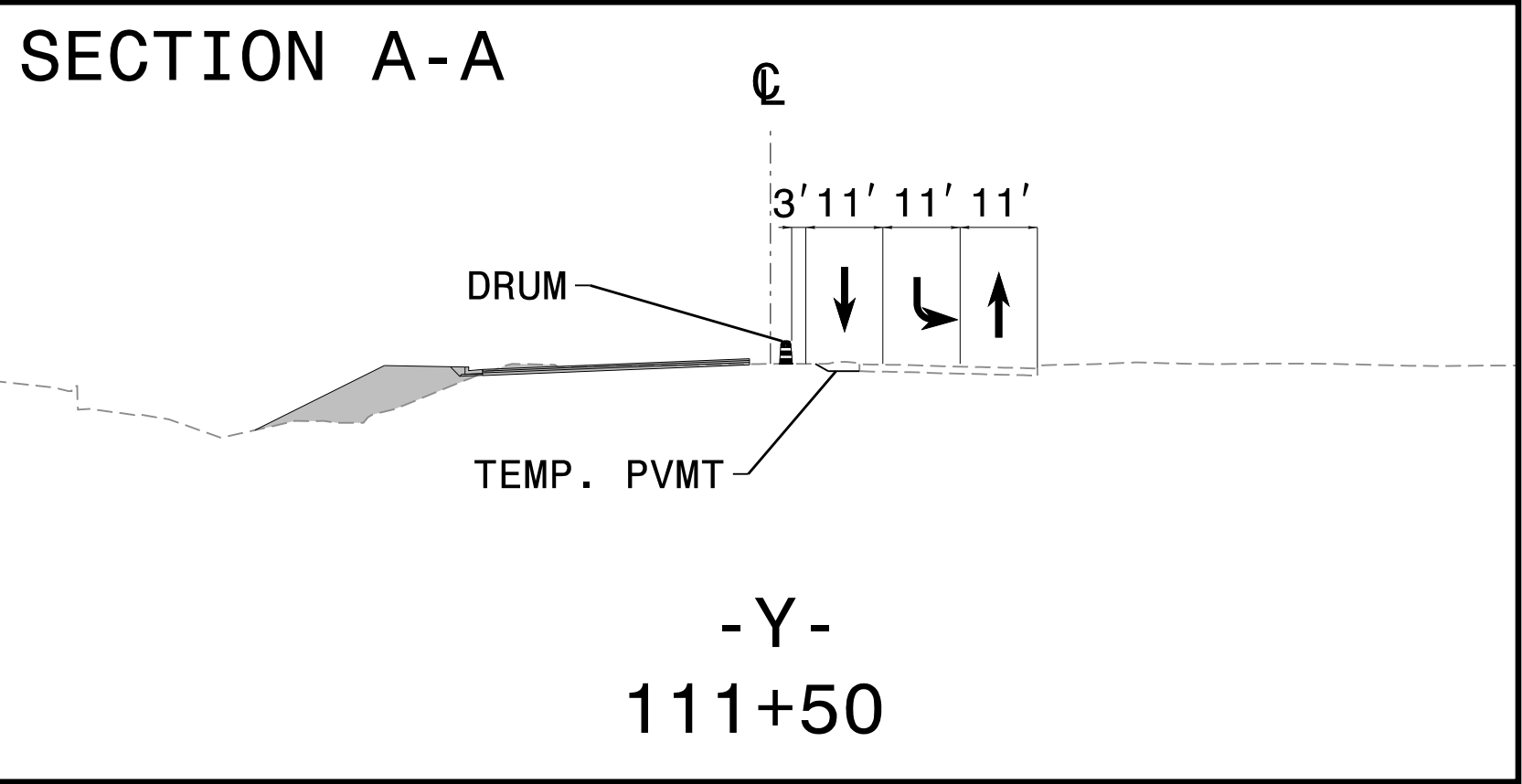
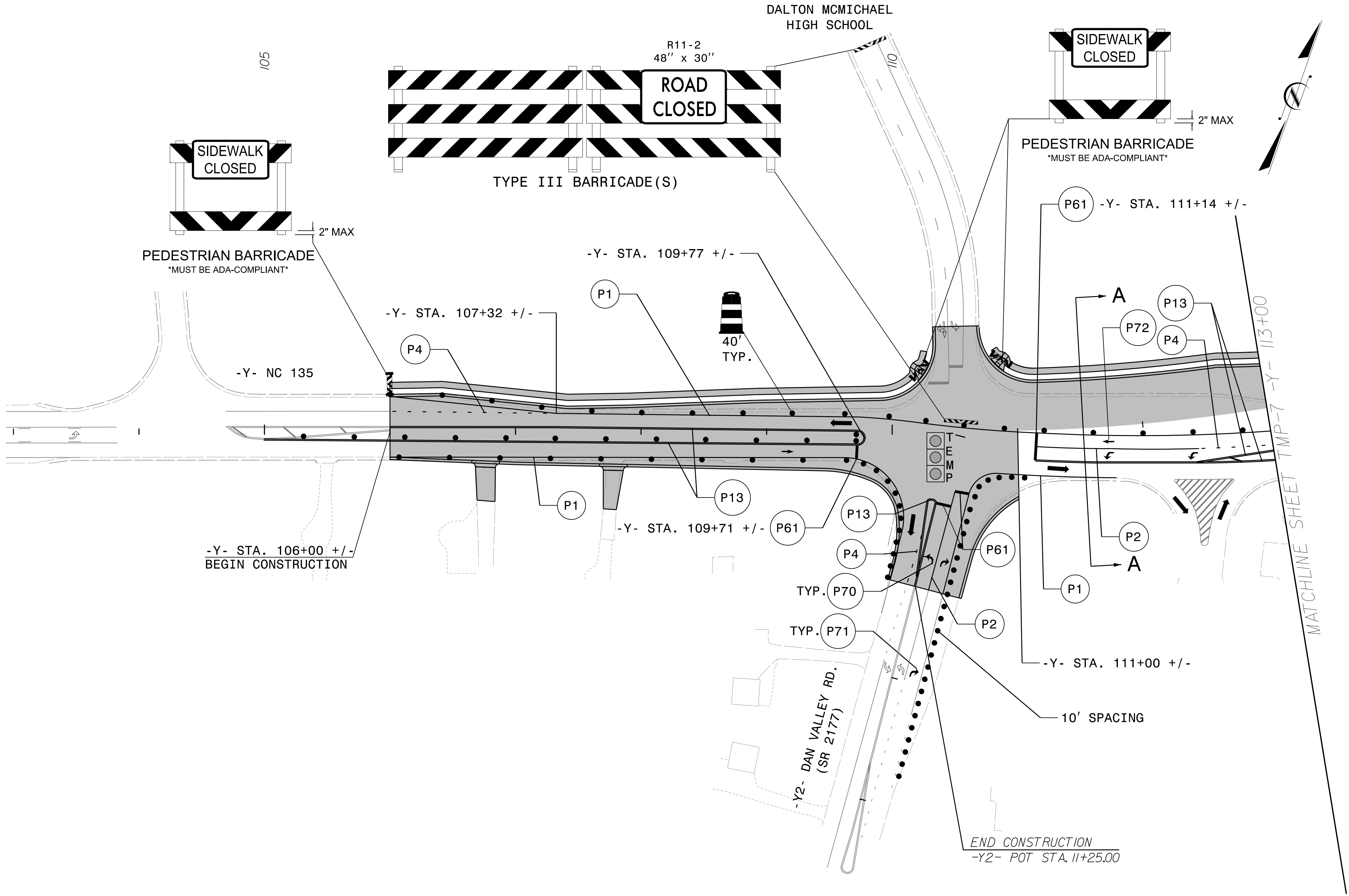
SEAL



PHASE I
DETAIL

PROJ. REFERENCE NO.	SHEET NO.
I - 5898	TMP - 5

PROJ. REFERENCE NO.	SHEET NO.
I - 5898	TMP - 6



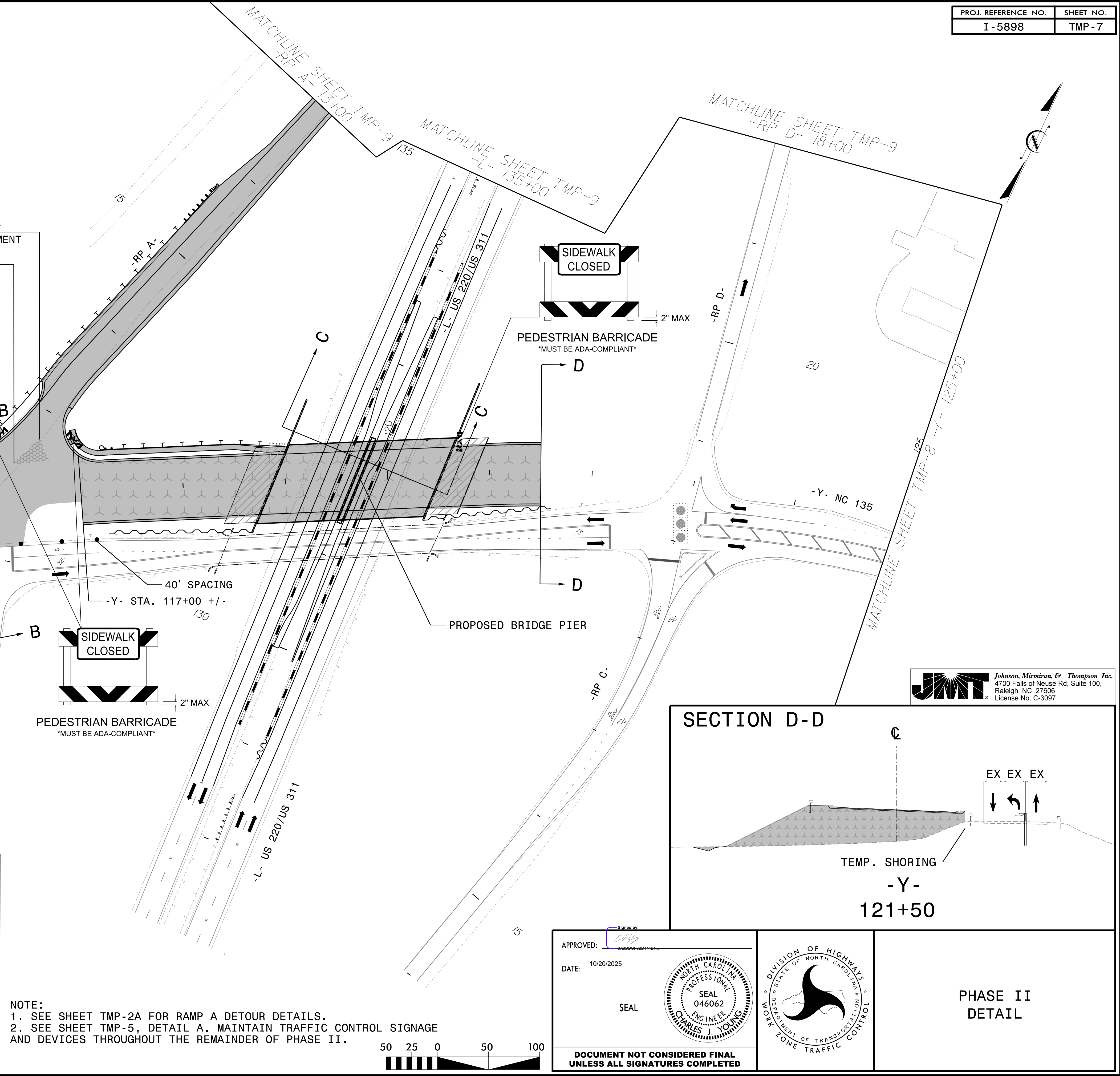
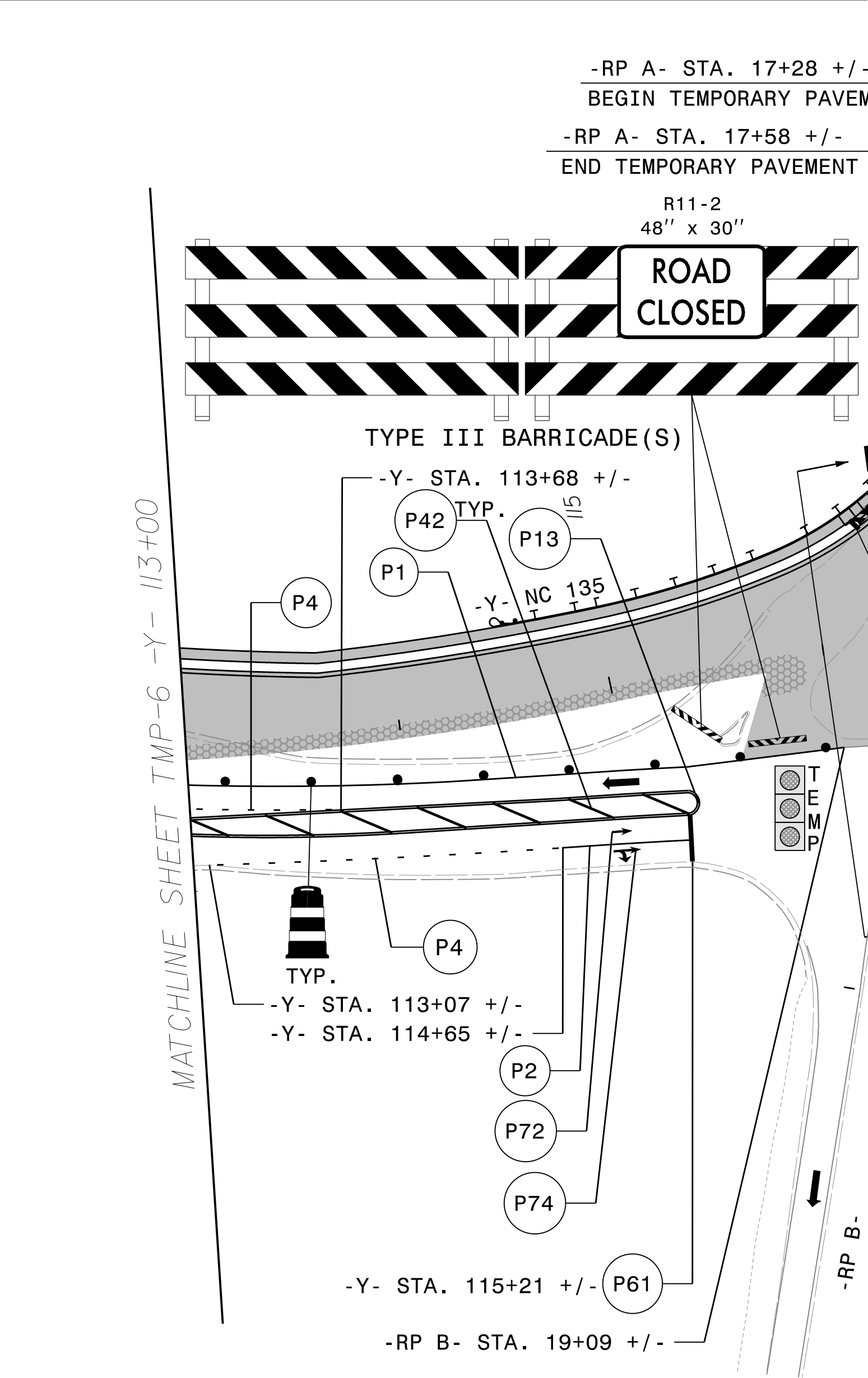
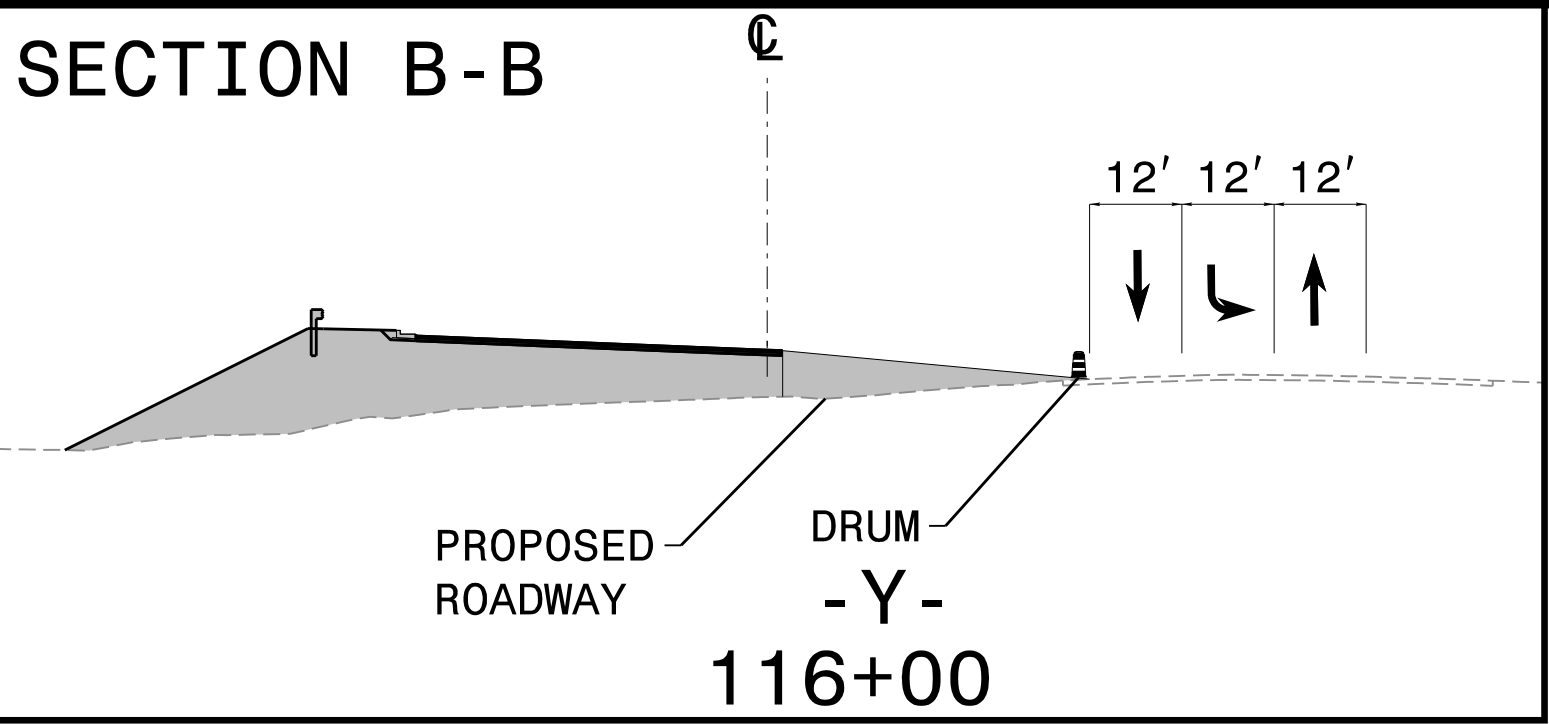
APPROVED: 
DATE: 10/20/2025

SEAL

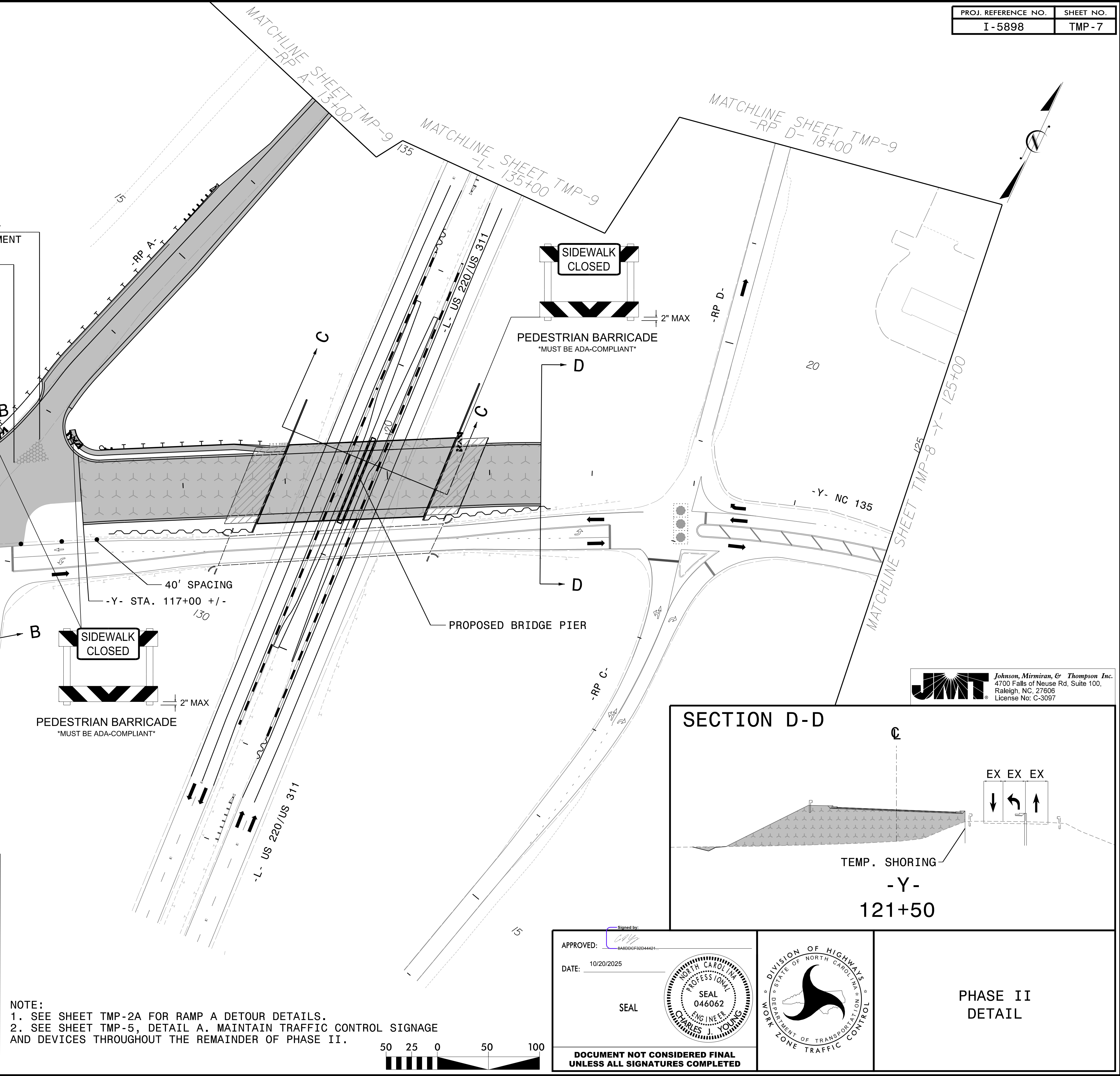
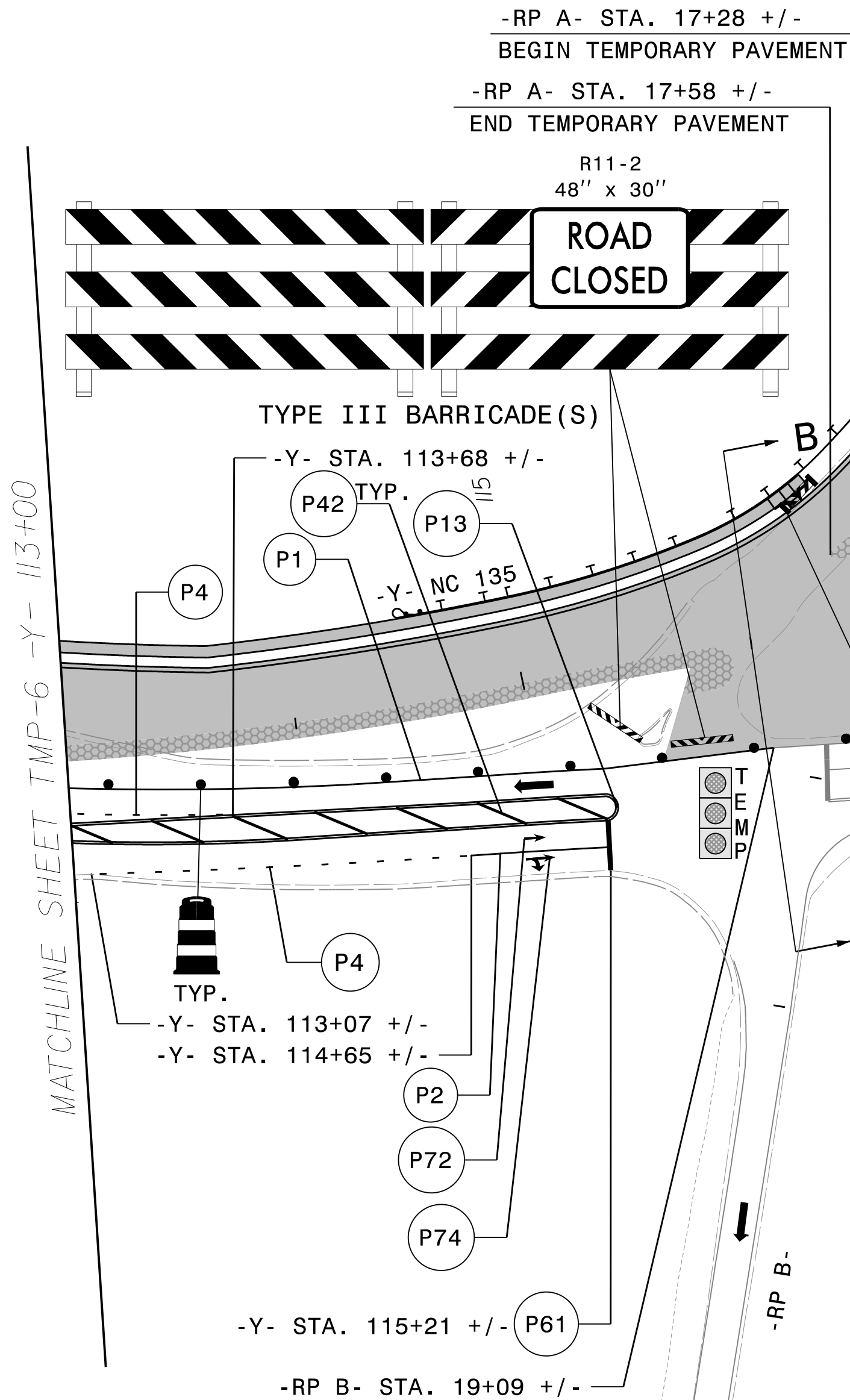
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PHASE II
DETAIL



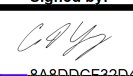
PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-7



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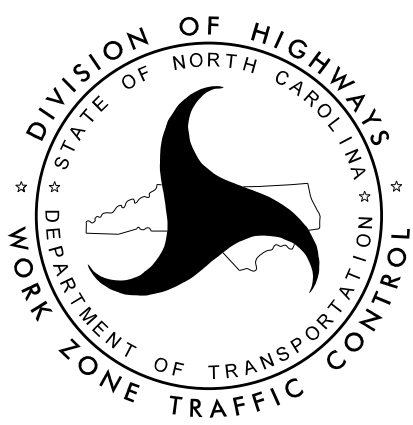
NOTE:
1. SEE SHEET TMP-2A FOR RAMP A DETOUR DETAILS.
2. SEE SHEET TMP-5, DETAIL A. MAINTAIN TRAFFIC CONTROL SIGNAGE AND DEVICES THROUGHOUT THE REMAINDER OF PHASE II.



APPROVED: 
DATE: 10/20/2025

SEAL

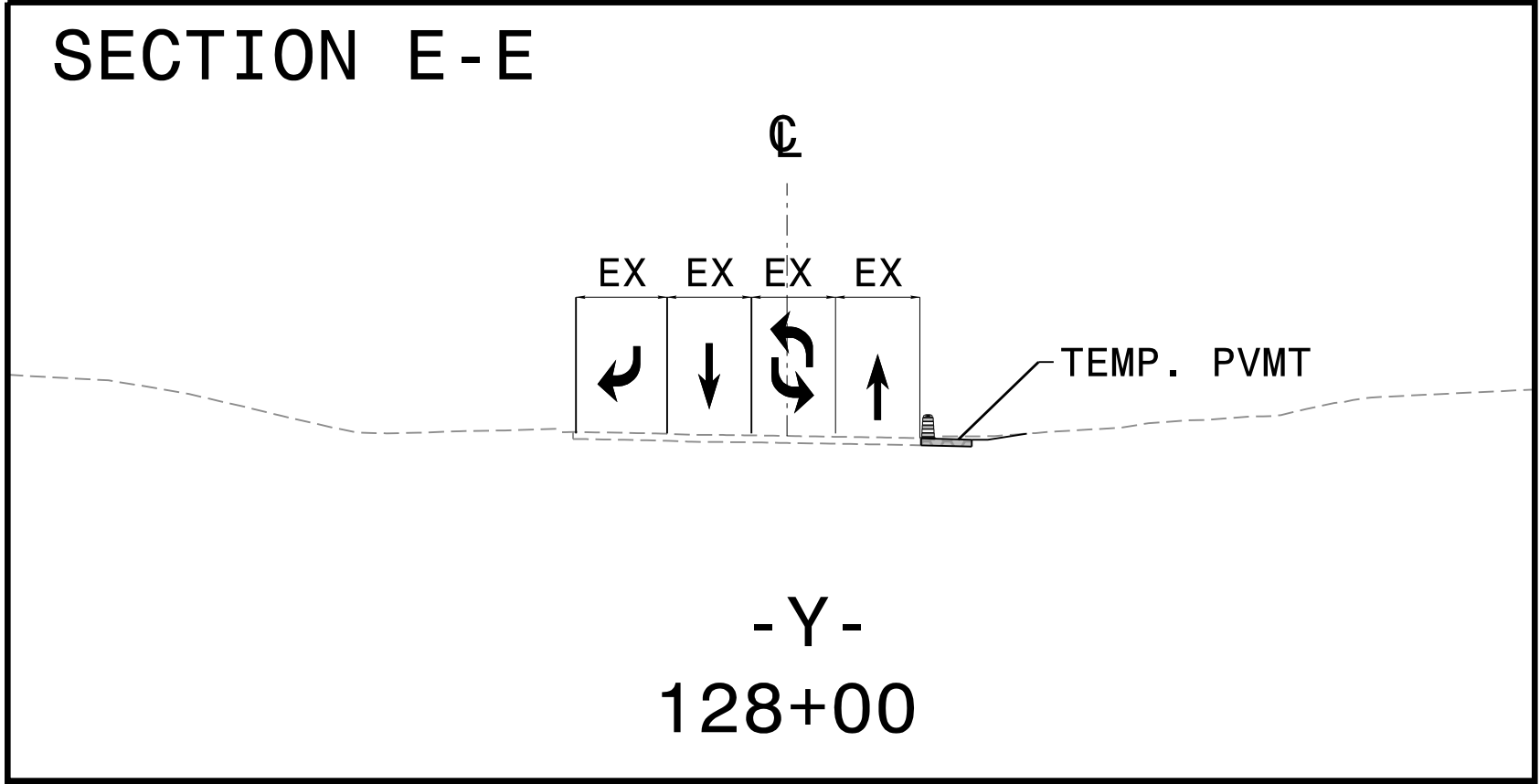
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



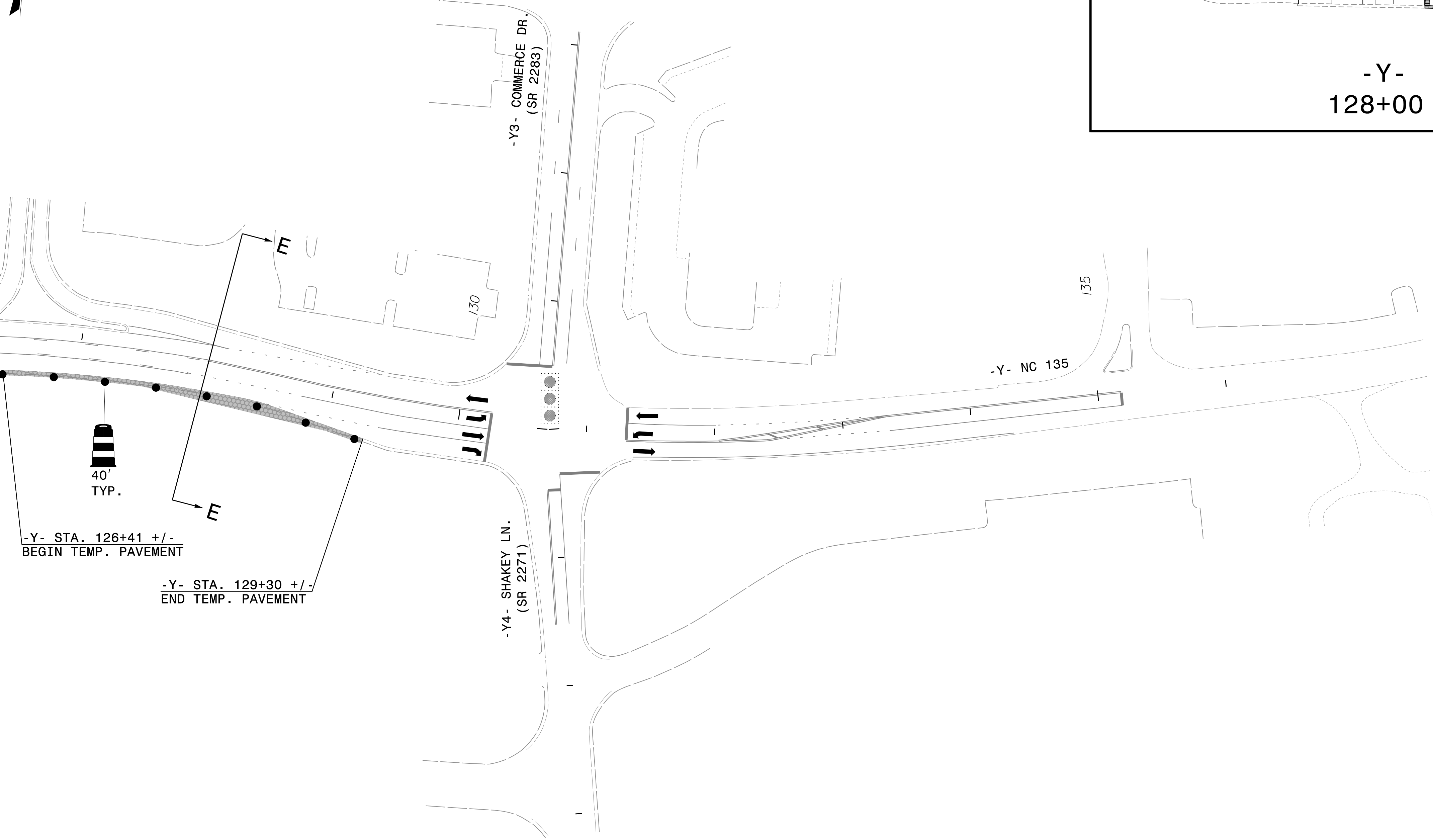
PHASE II
DETAIL

10/08/25 13:05:40
C:\Users\jmt\OneDrive\Documents\I-5898\I-5898-TMP-07.dgn
User:jmt

PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-8



MATCHLINE SHEET TMP-7 -Y- 125+00



-Y- STA. 126+41 +/-
BEGIN TEMP. PAVEMENT

-Y- STA. 129+30 +/-
END TEMP. PAVEMENT

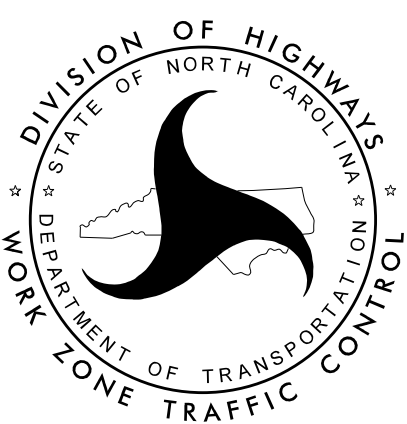


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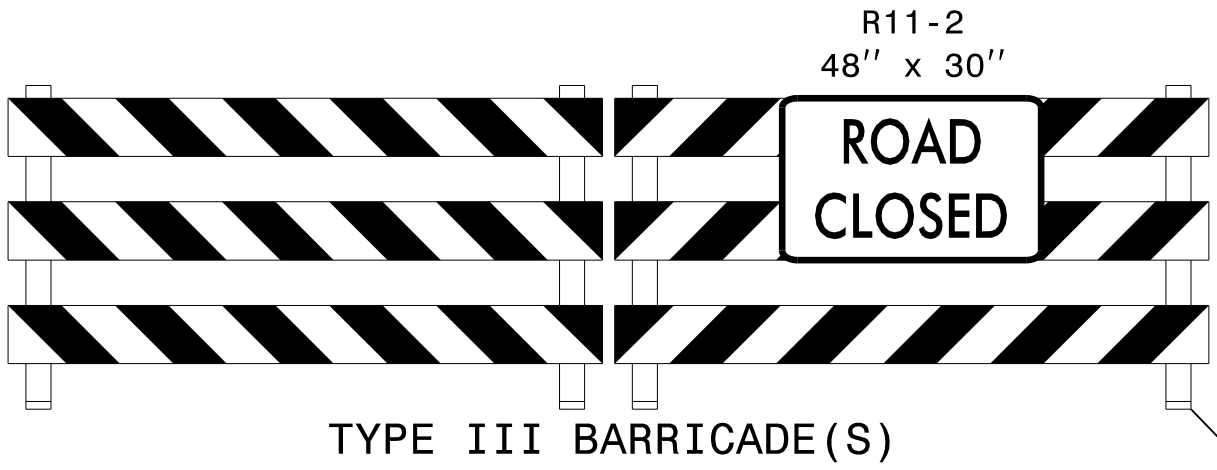


PHASE II
DETAIL

PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-9

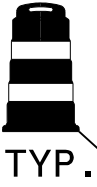
NOTE:

1. SEE RSD 1101.02, SHEET 12 OF 19 FOR THE CLOSURE OF RAMP -RP A-.
2. SEE SHEET TMP-2A FOR RAMP A DETOUR DETAILS.



-RP A- STA. 10+00 +/-
BEGIN CONSTRUCTION

40' SPACING



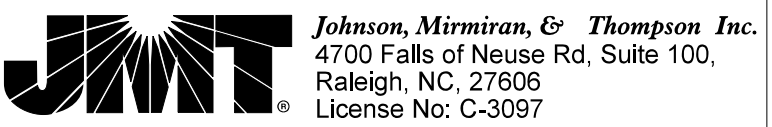
TYP.

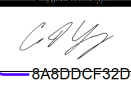
-L- US 220/US 311

-RP D-

MATCHLINE SHEET TMP-7
-RP A- 13+00

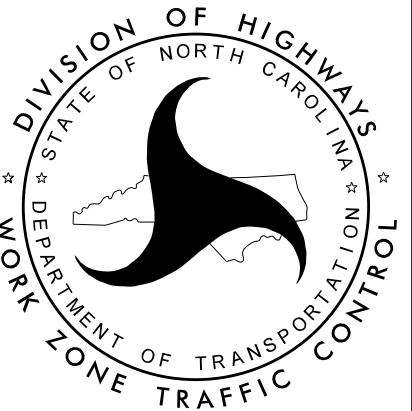
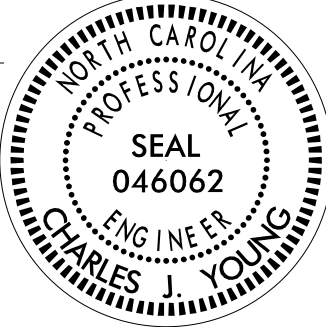
MATCHLINE SHEET TMP-7
-RP D- 18+00
-L- 135+00



APPROVED: 
DATE: 10/20/2025

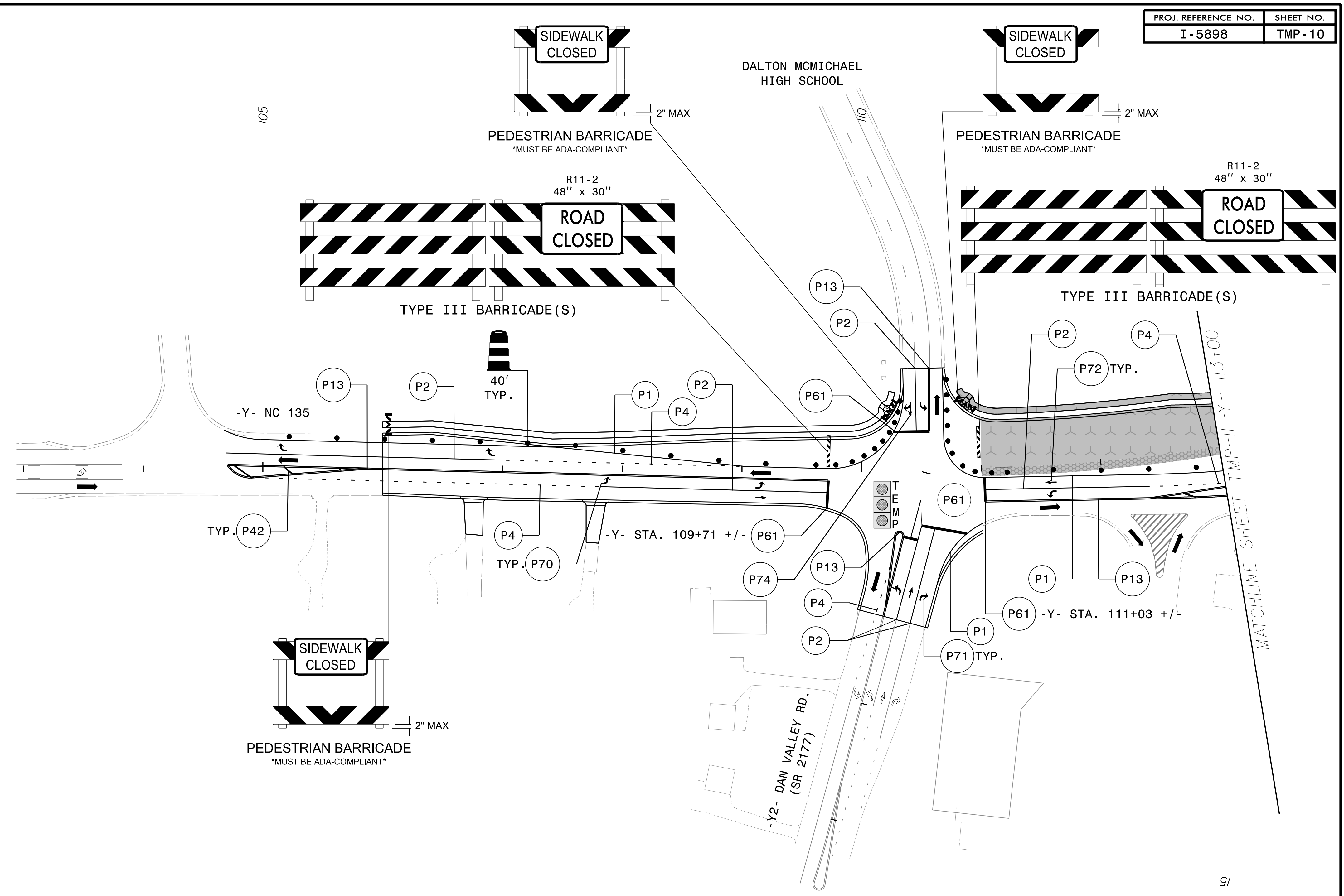
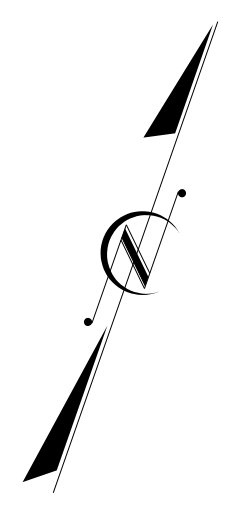
SEAL

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PHASE II
DETAIL

9/9/2025 8:46:46 AM
C:\TMP-10.dgn
User:cmriddle



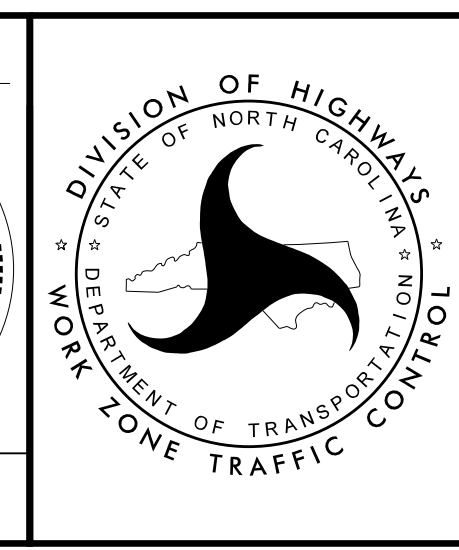
PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-10



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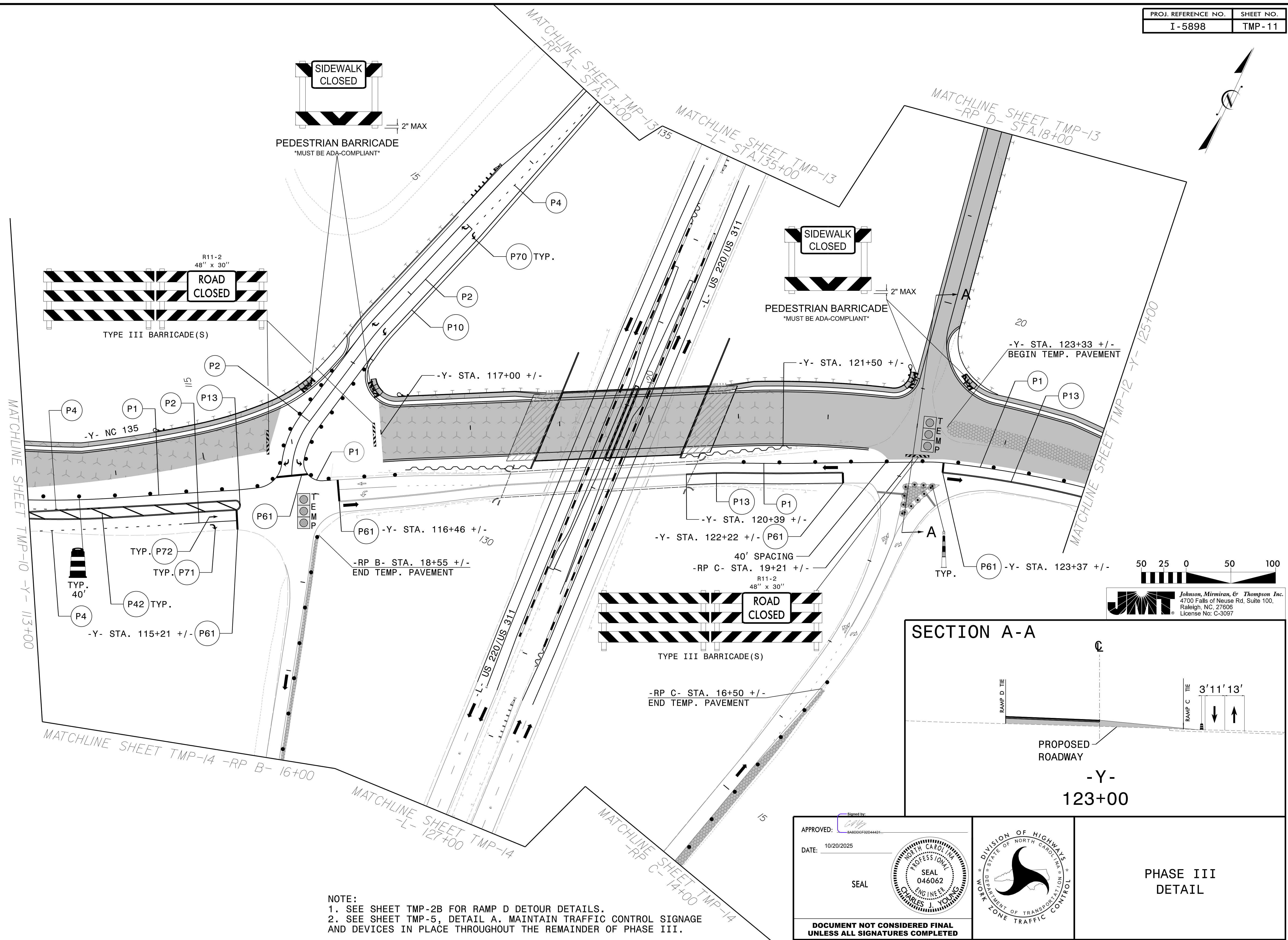
Signed by: *[Signature]*
APPROVED: _____
DATE: 10/20/2025
SEAL

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**PHASE III
DETAIL**

WORK ZONE TRAFFIC CONTROL



NOTE:
1. SEE SHEET TMP-2B FOR RAMP D DETOUR DETAILS.
2. SEE SHEET TMP-5, DETAIL A. MAINTAIN TRAFFIC CONTROL SIGNAGE
AND DEVICES IN PLACE THROUGHOUT THE REMAINDER OF PHASE III.

SECTION A-A

PROPOSED
ROADWAY

- Y -

123+00

PHASE III
DETAIL

APPROVED:  8A8DD6F32D44421

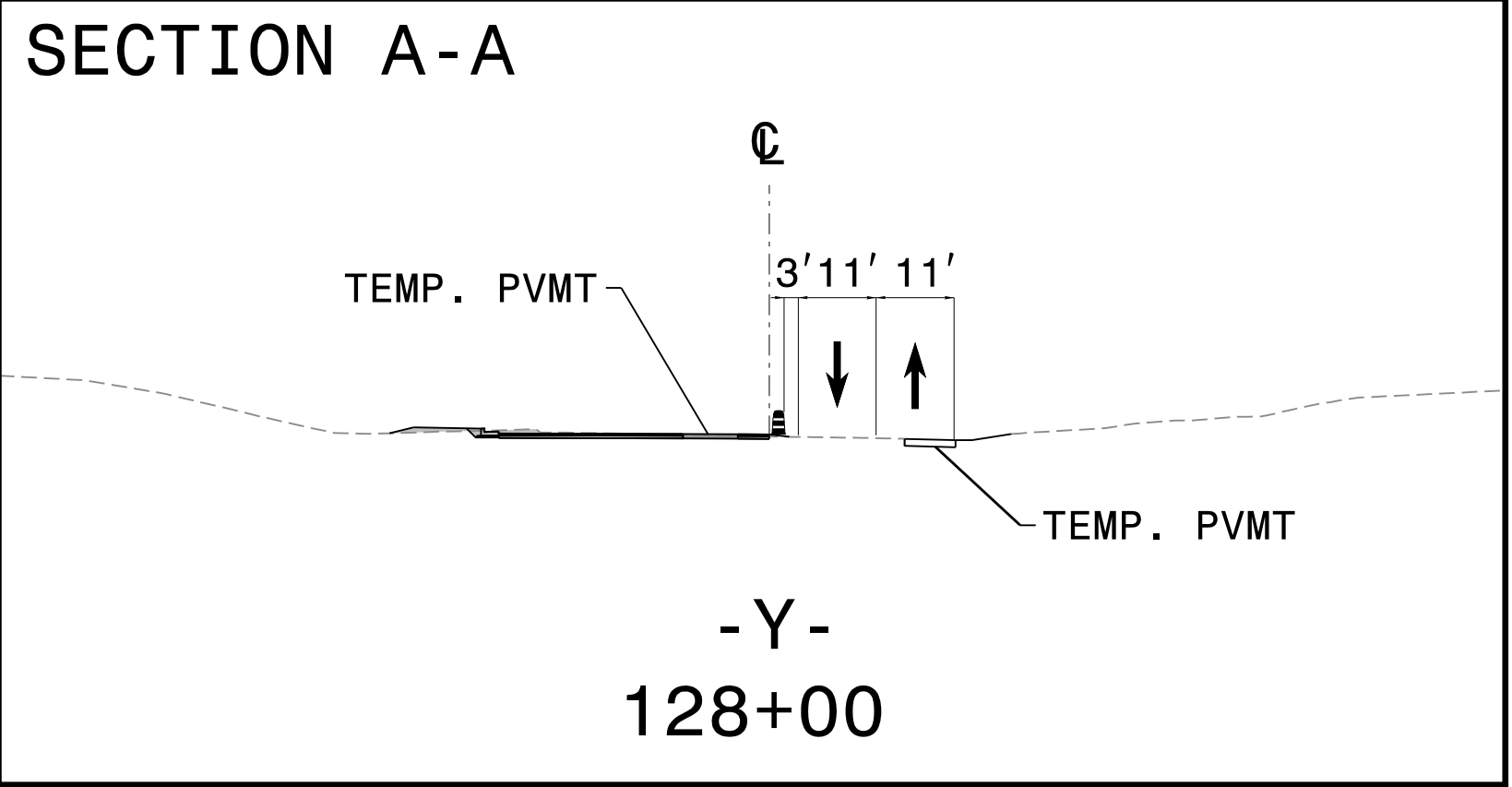
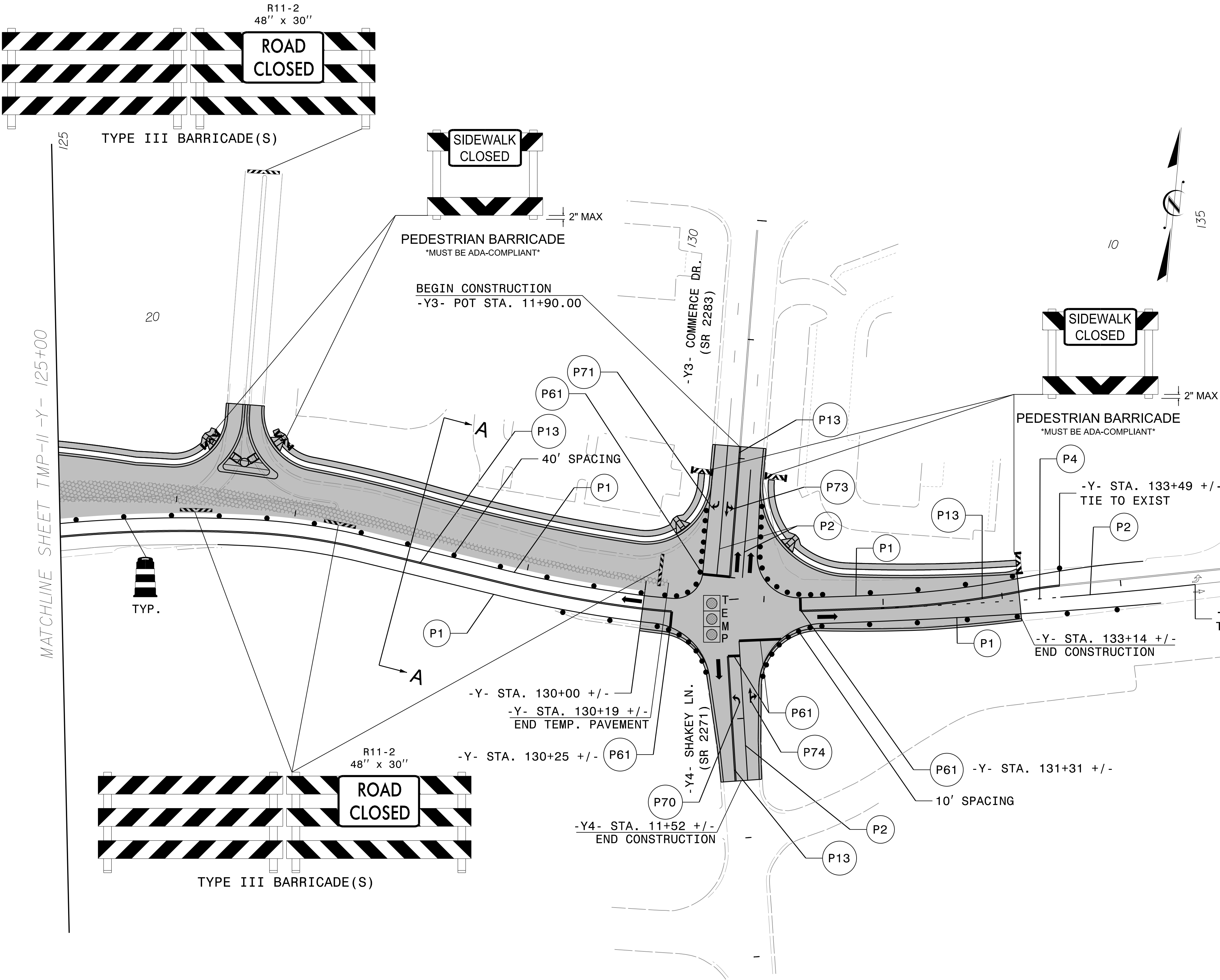
DATE: 10/20/2025

SEAL

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

10/08/25 13:06:05
....\TCP\5898_TC_TMP-II.dgn
User:dfredde

PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-12



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APPROVED: 
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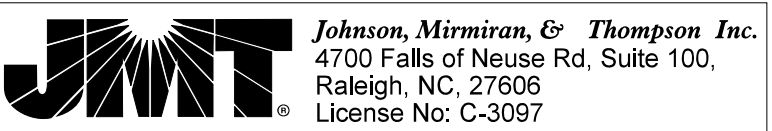
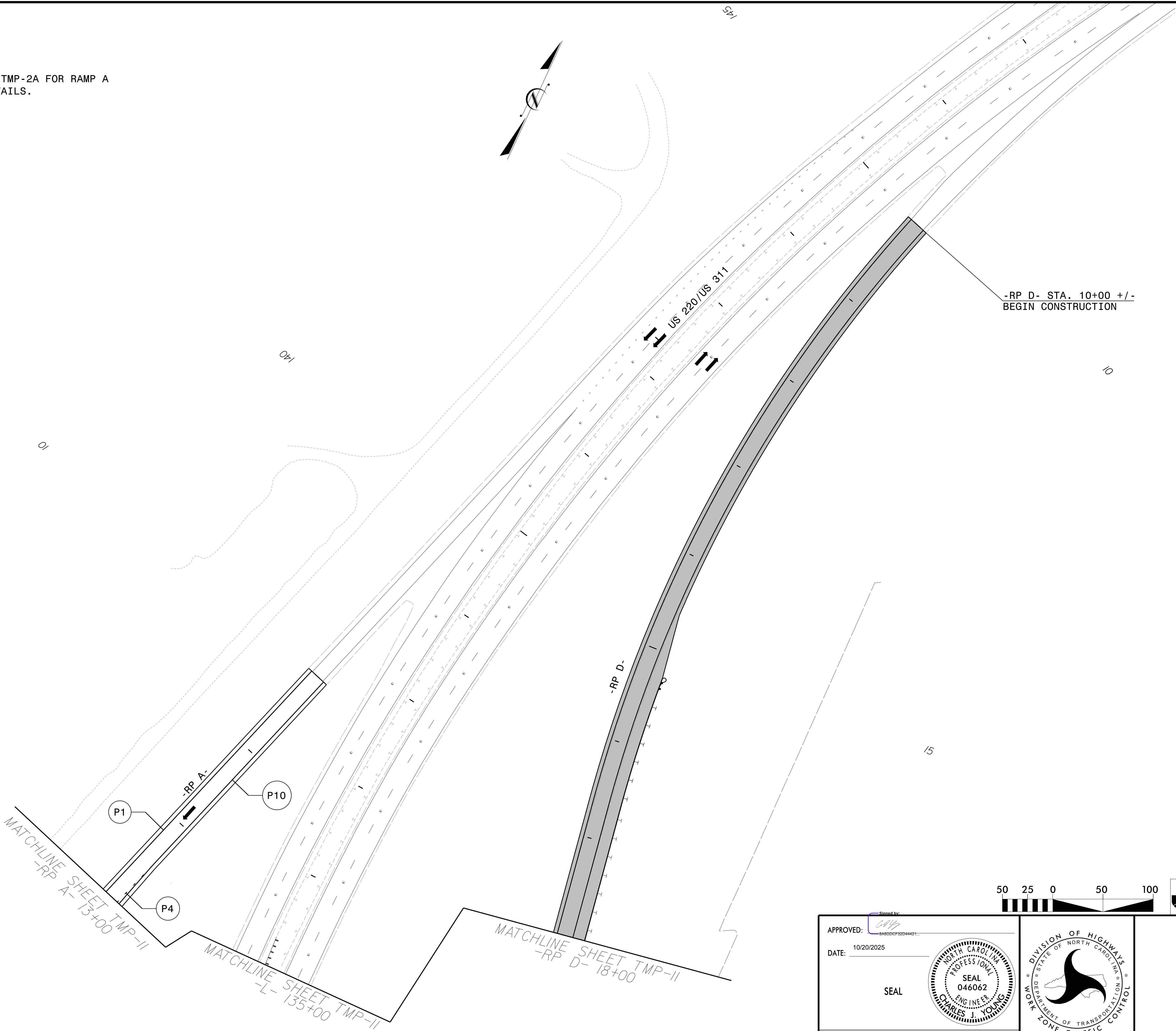


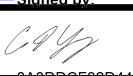
PHASE III
DETAIL

PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-13

NOTE:

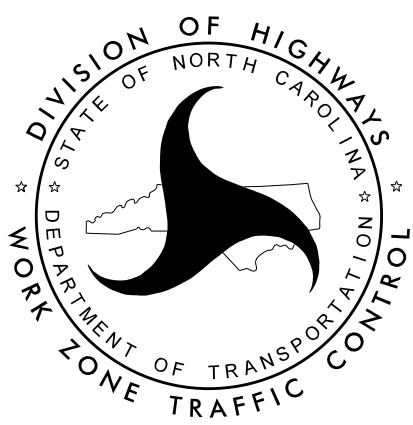
1. SEE SHEET TMP-2A FOR RAMP A
DETOUR DETAILS.



APPROVED: 
DATE: 10/20/2025

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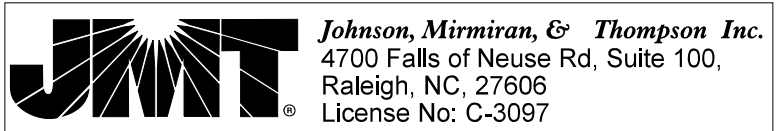
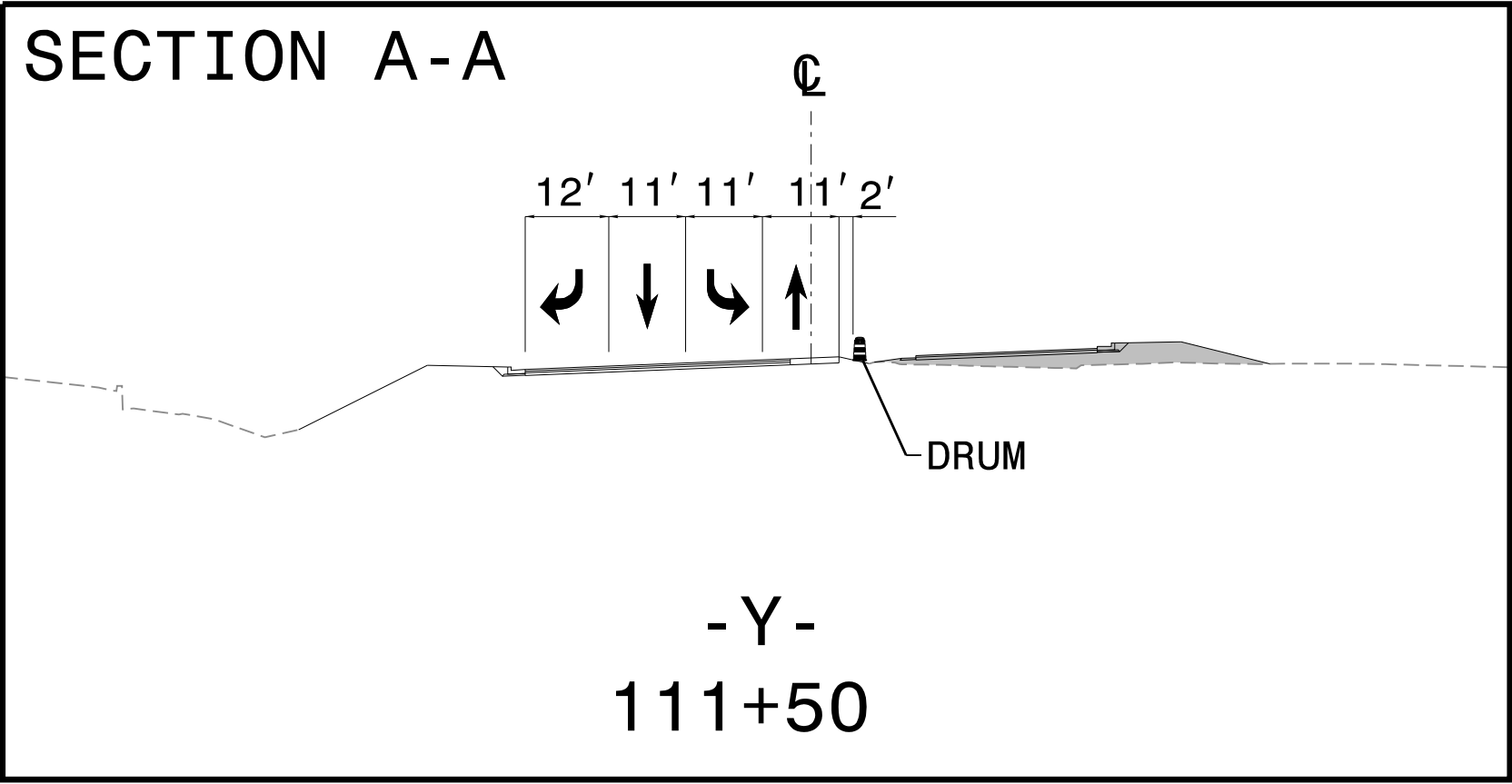
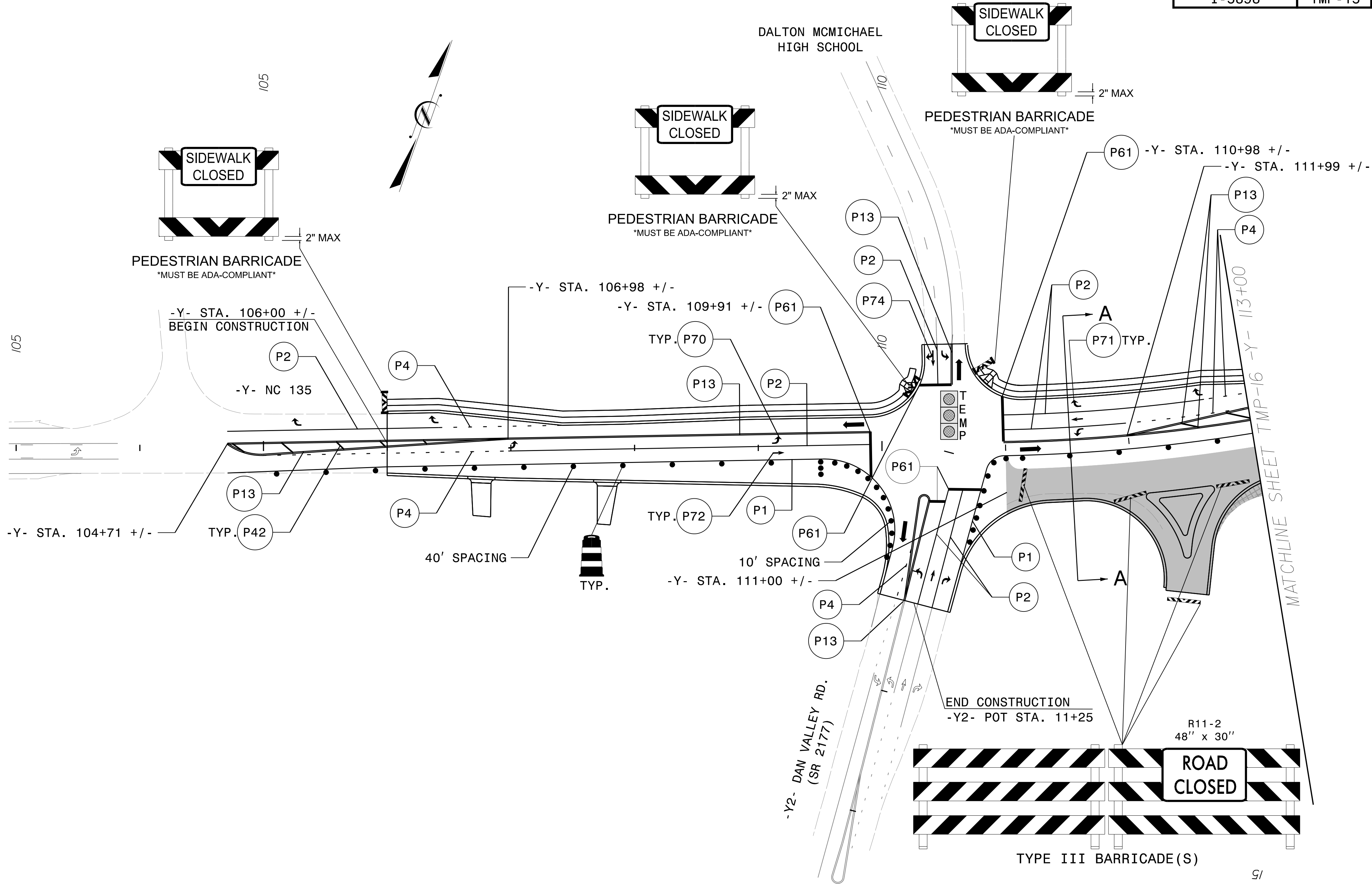
PHASE III
DETAIL

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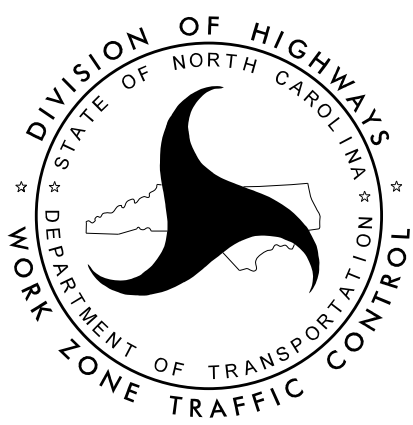


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PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-15

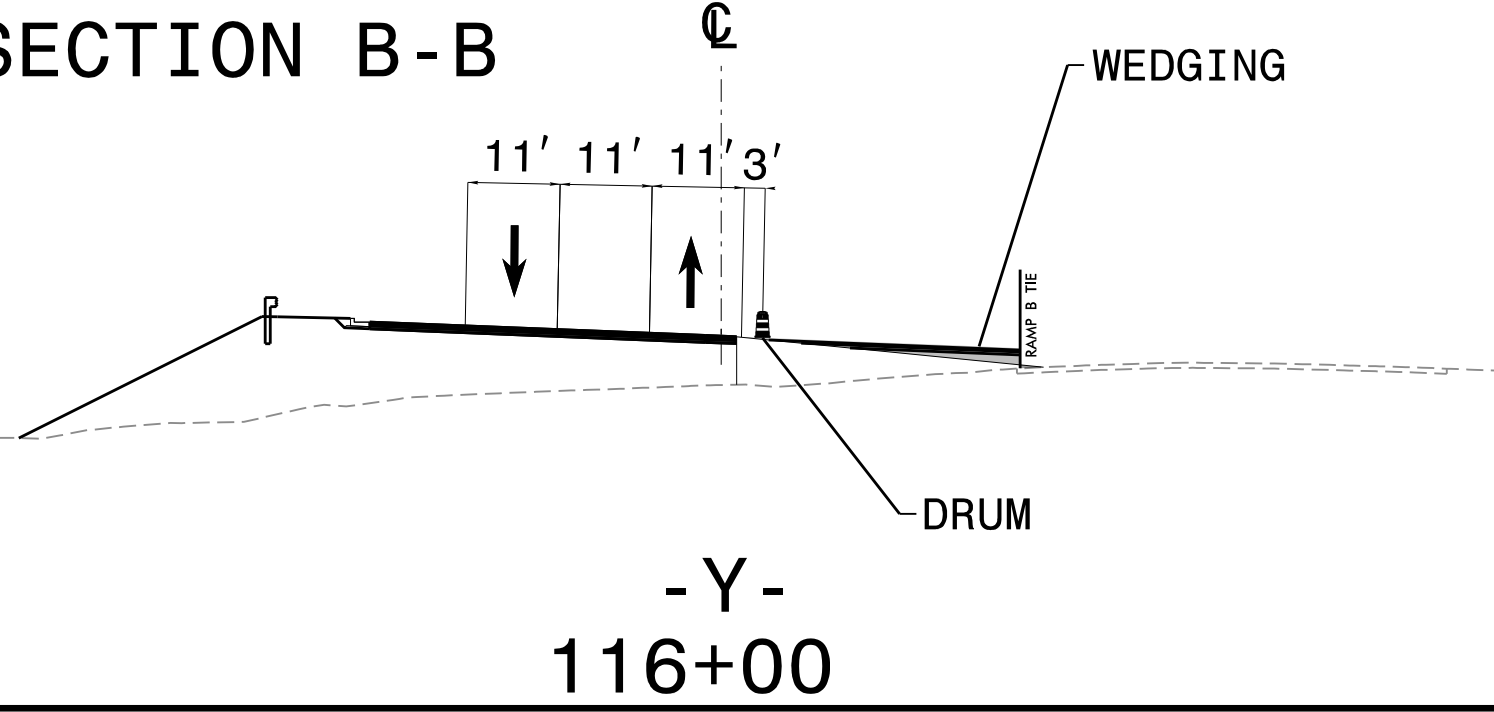


APPROVED: *[Signature]*
DATE: 10/20/2025
SEAL
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



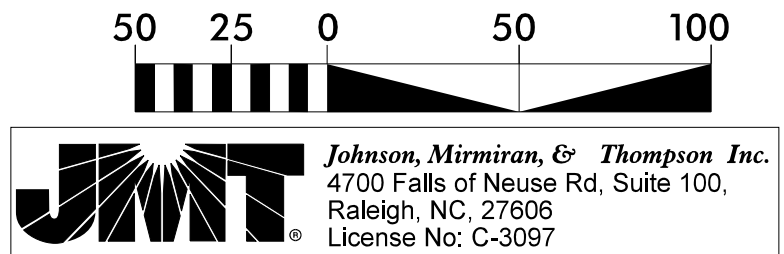
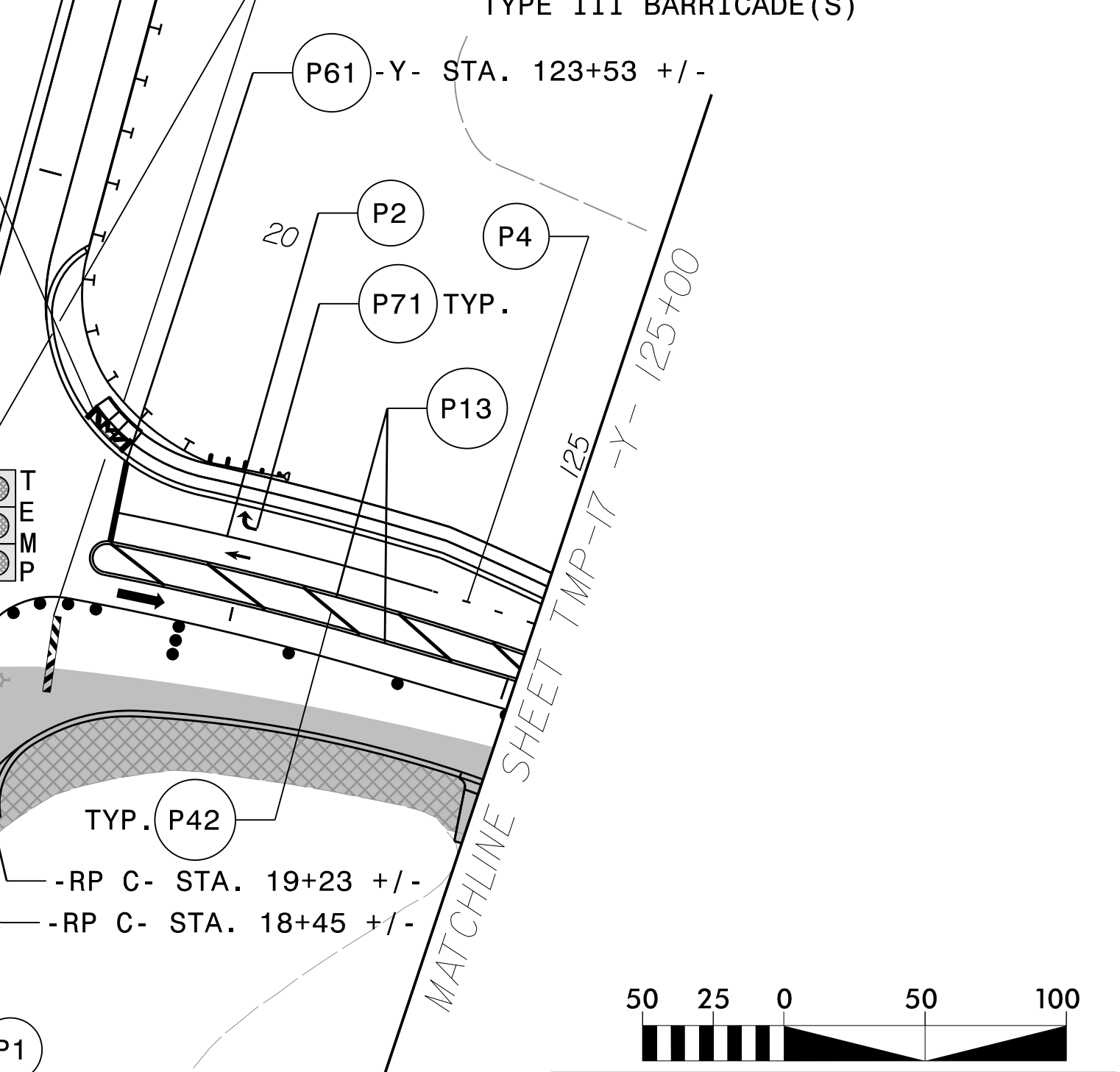
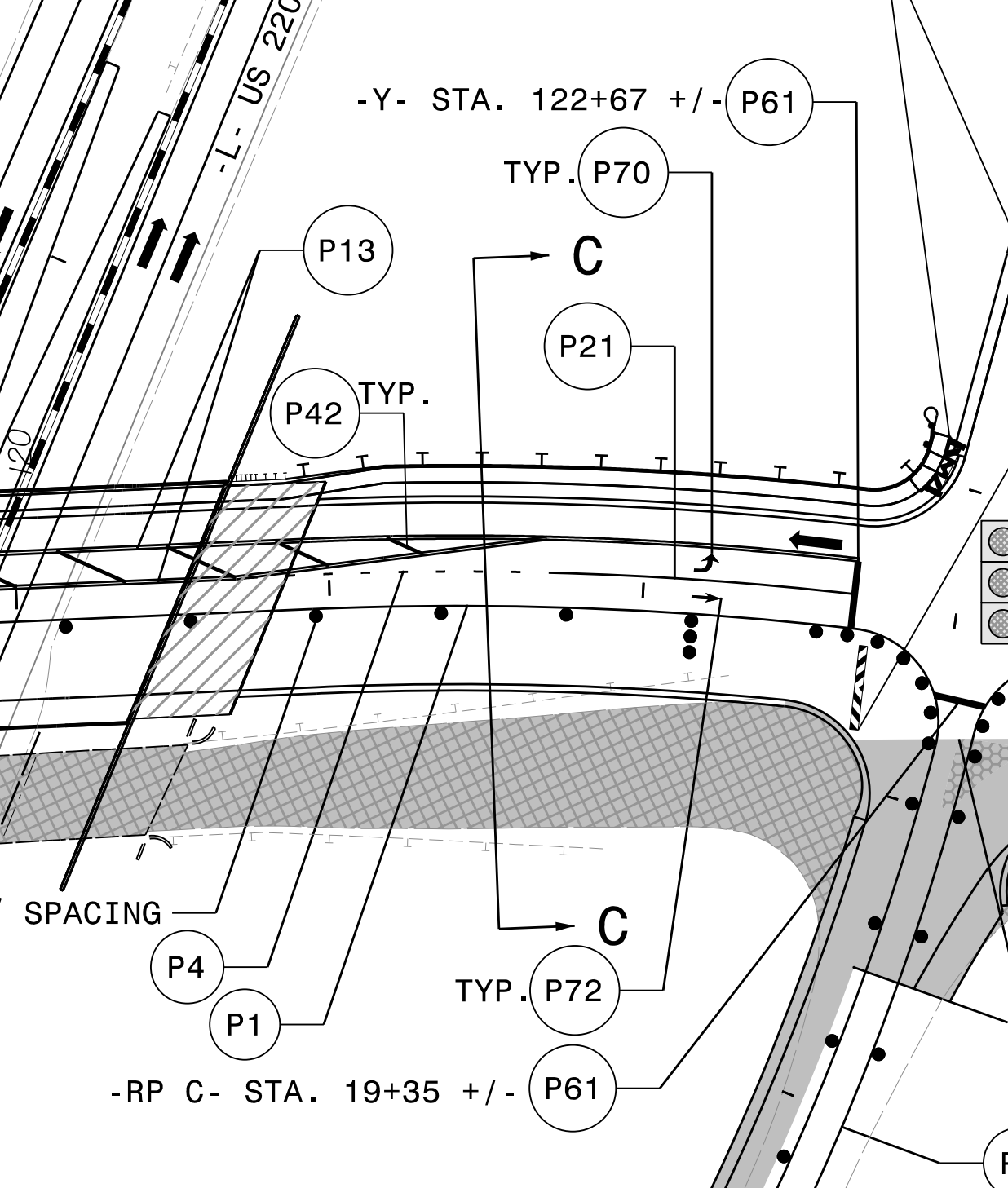
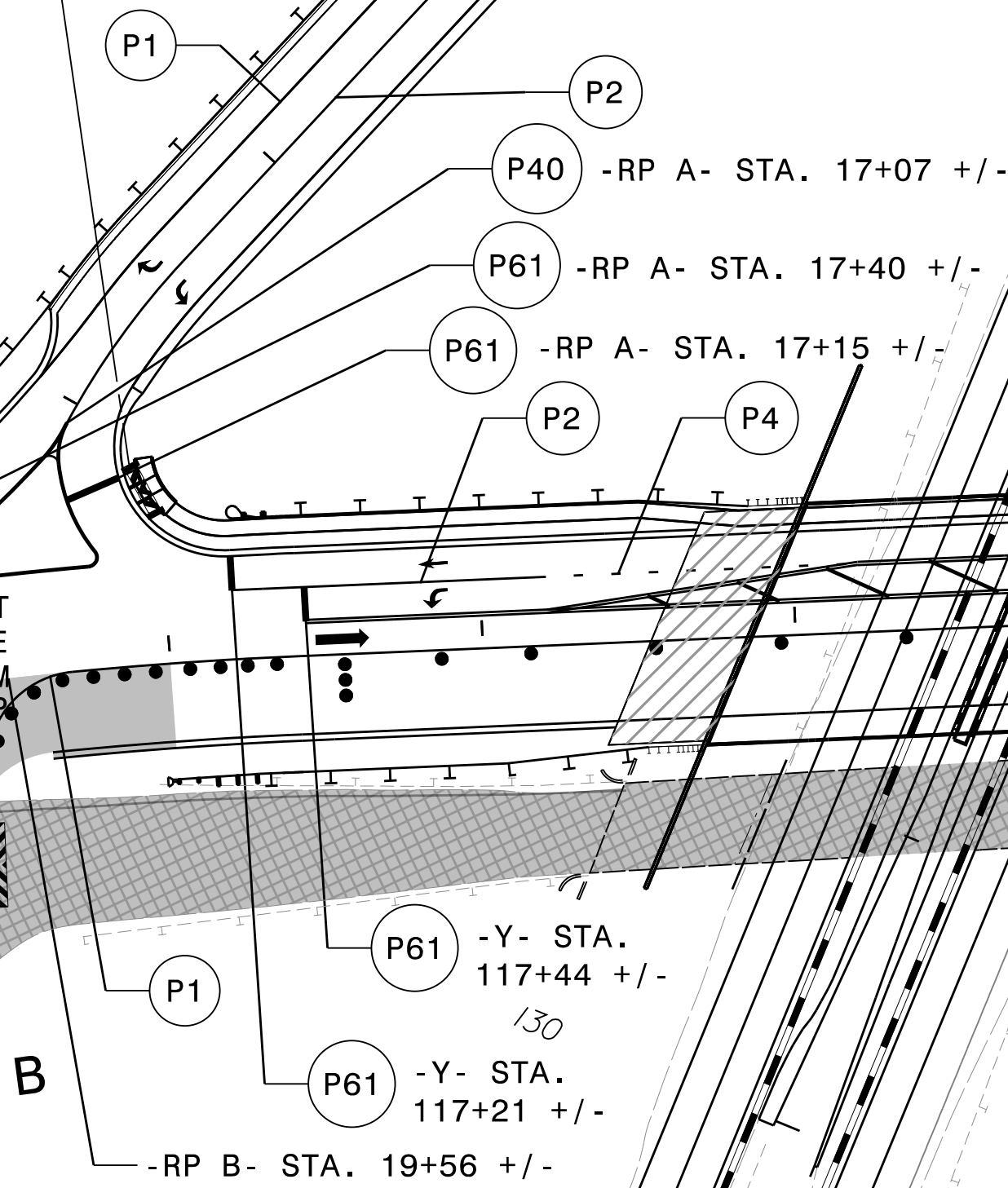
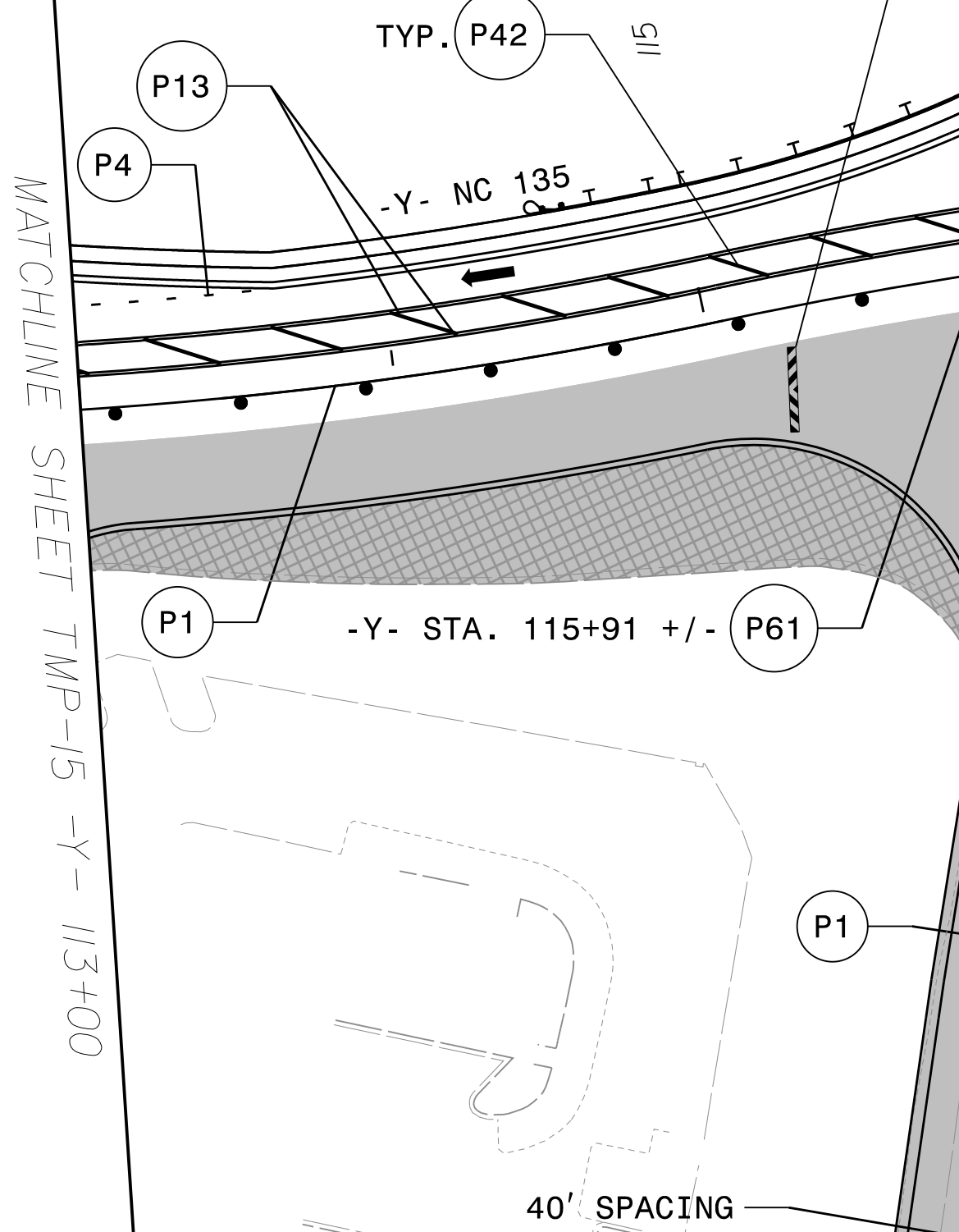
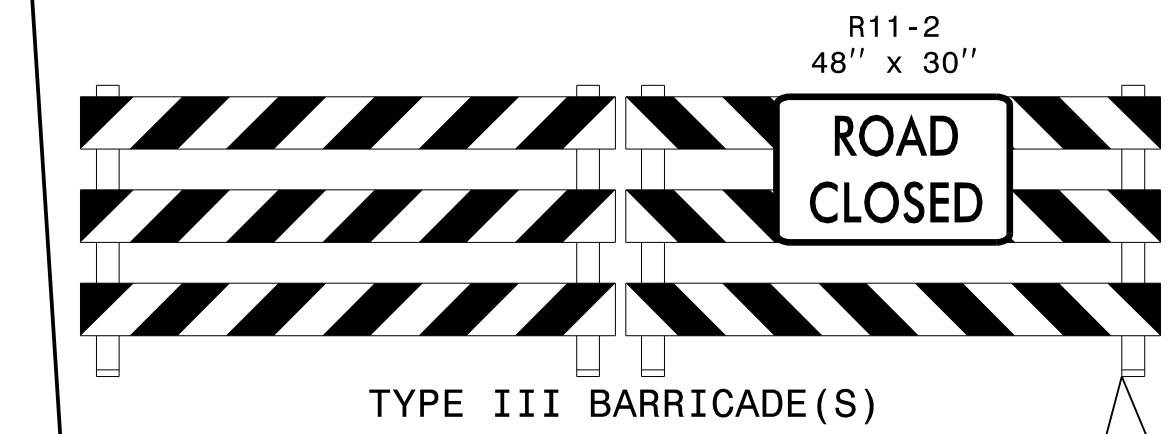
PHASE IV
DETAIL

SECTION B-B

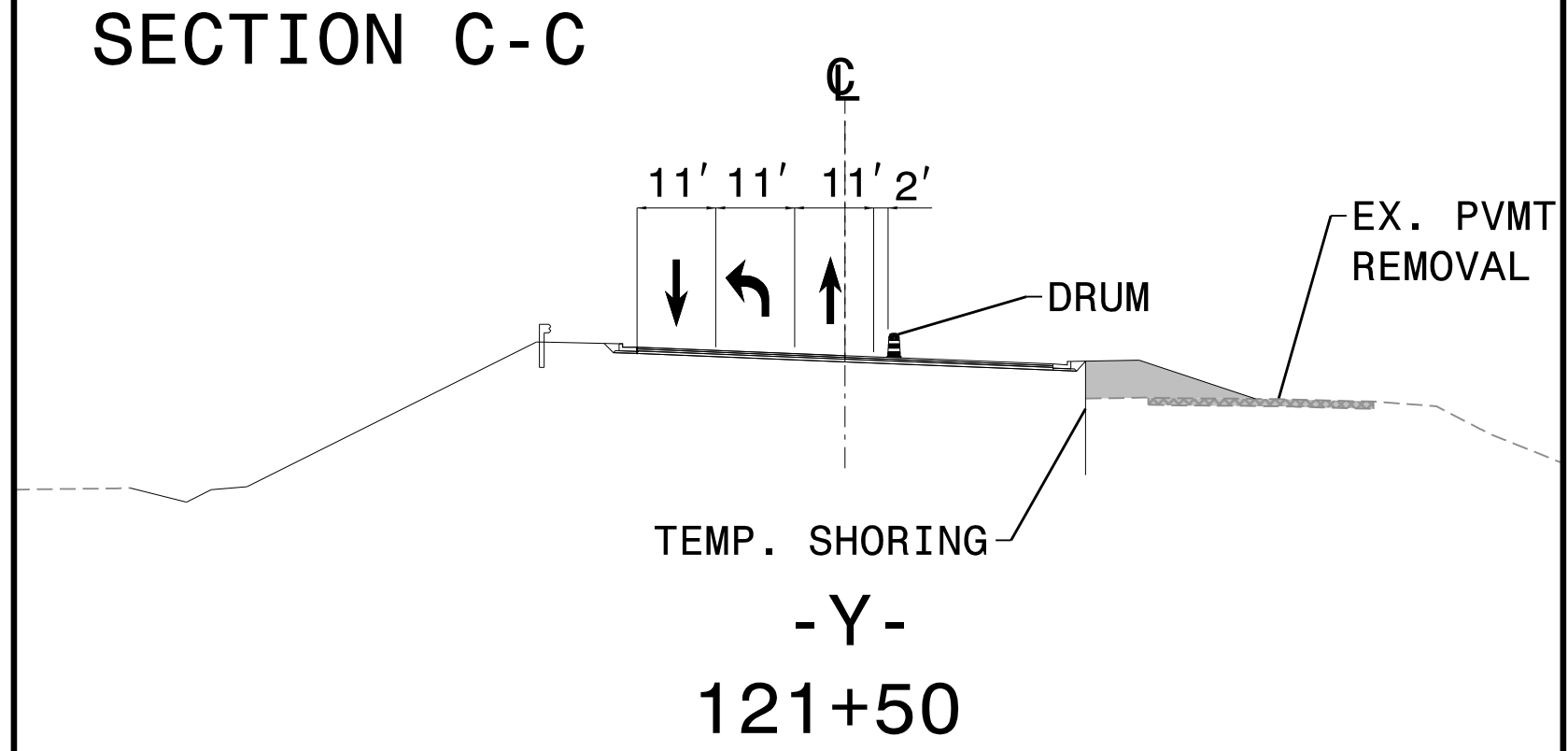


- NOTE:
1. REFER TO SHEETS TMP-2B.1 THRU TMP-2B.2 FOR NIGHT TIME RAMP CLOSURE DETAILS FOR RAMP B & C.
 2. DO NOT CLOSE RAMPS B AND C SIMULTANEOUSLY.
 3. SEE SHEET TMP-5, DETAIL A. MAINTAIN TRAFFIC CONTROL SIGNAGE AND DEVICES IN PLACE THROUGHOUT THE REMAINDER OF PHASE IV.

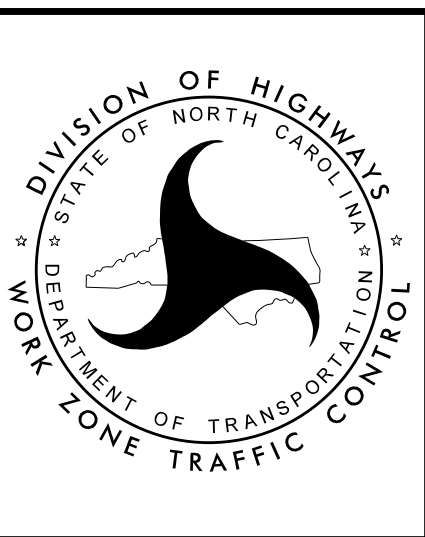
PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-16



SECTION C-C

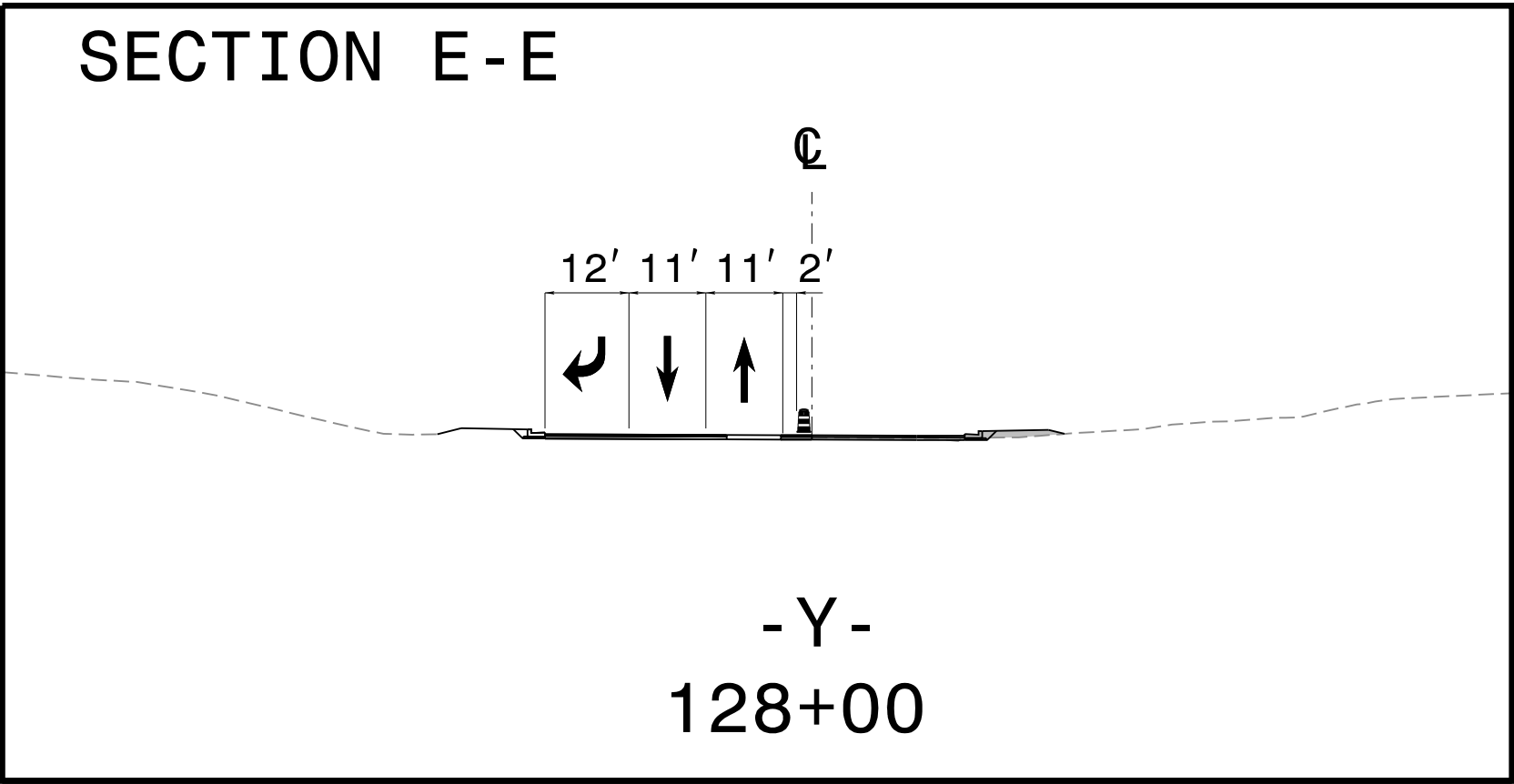


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DATE: 10/20/2025
SEAL
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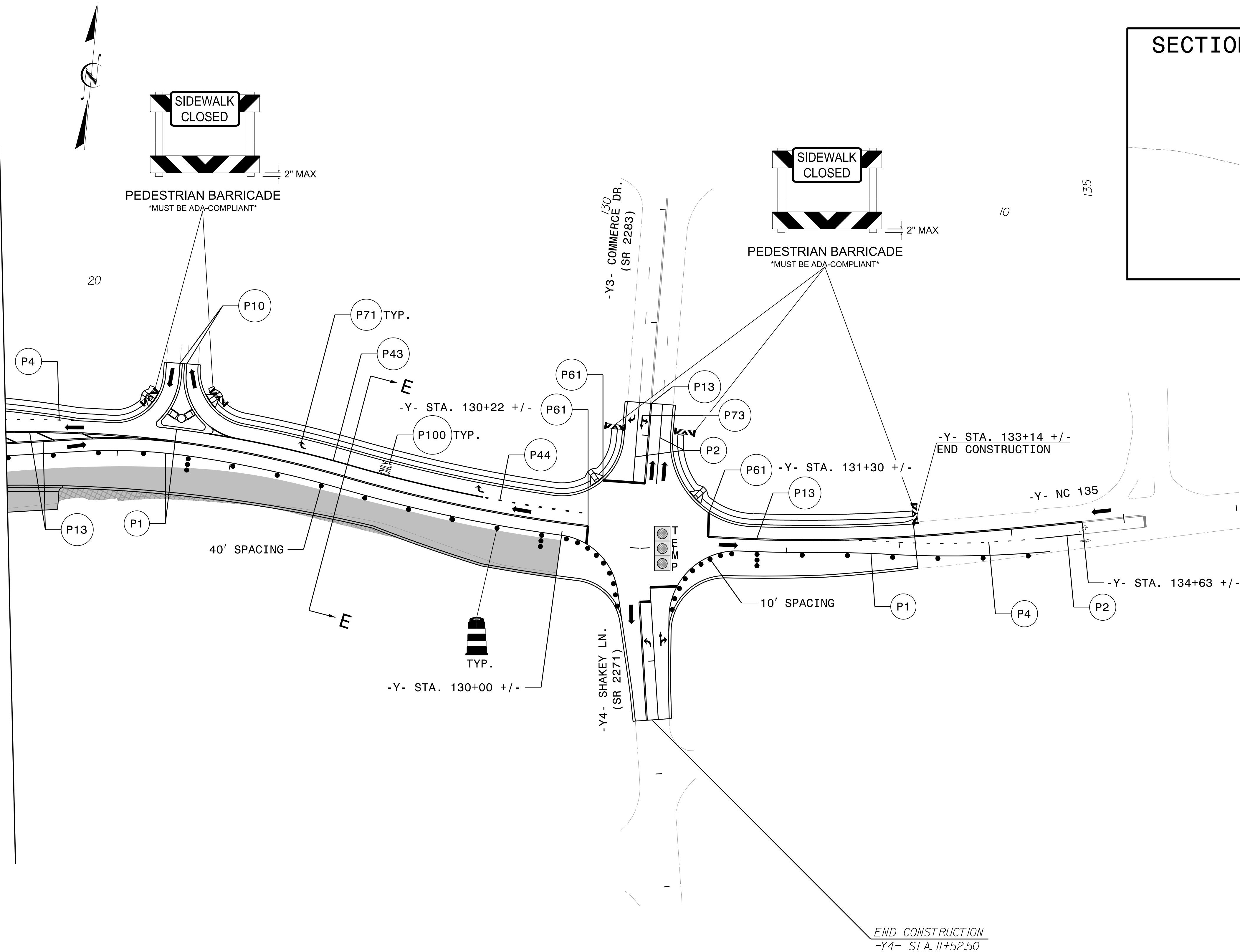


PHASE IV
DETAIL

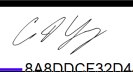
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I-5898	TMP-17



MATCHLINE SHEET TMP-16 -Y- 125+00



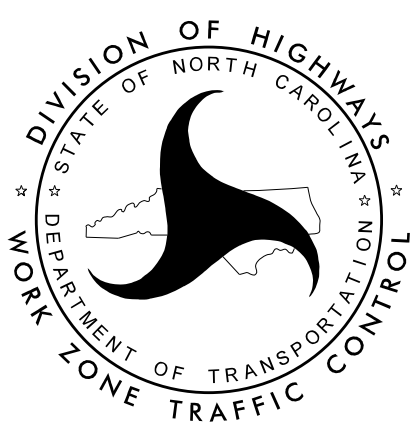
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Raleigh, NC, 27606
License No: C-3097

APPROVED: 
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DATE: 10/20/2025

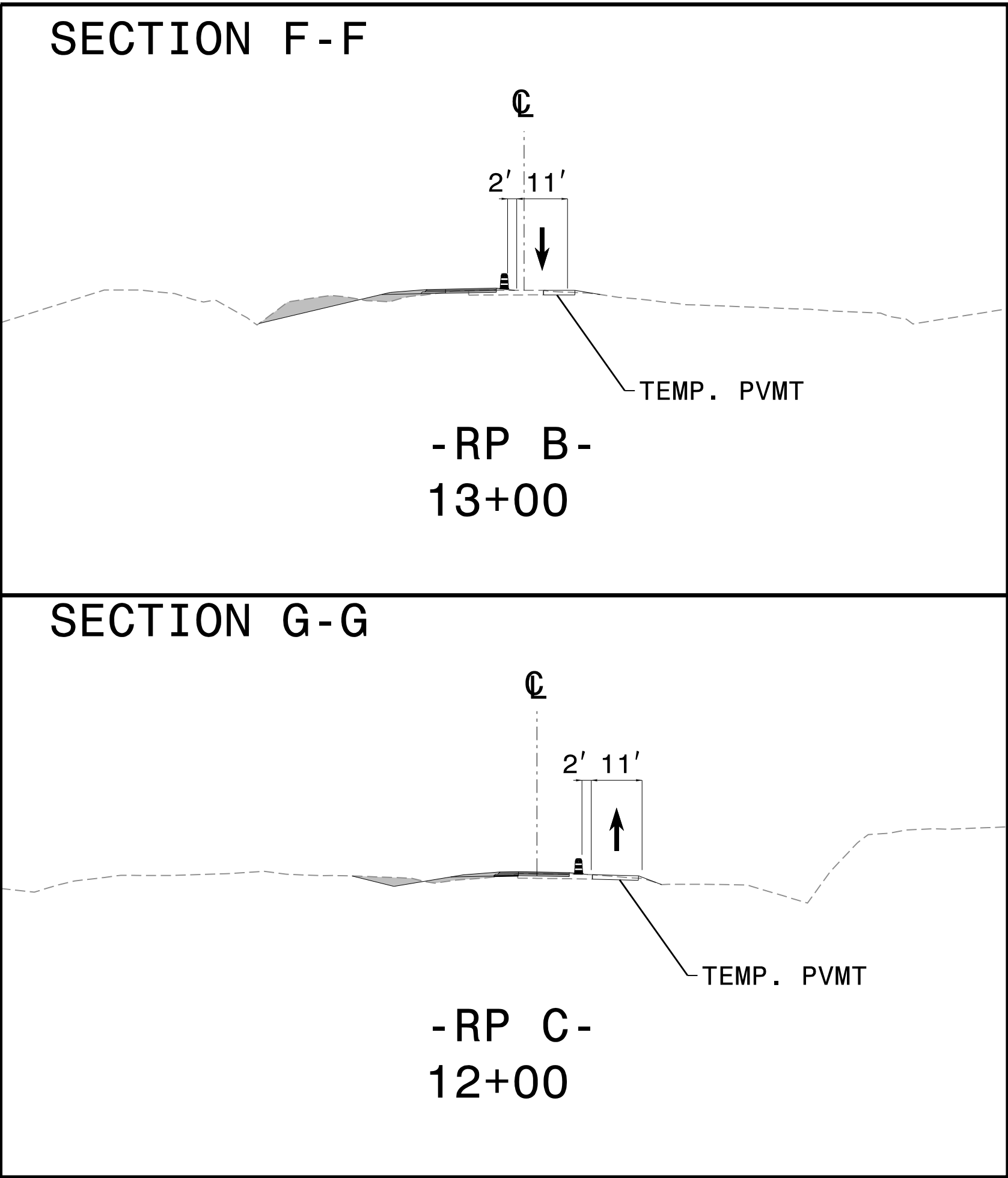
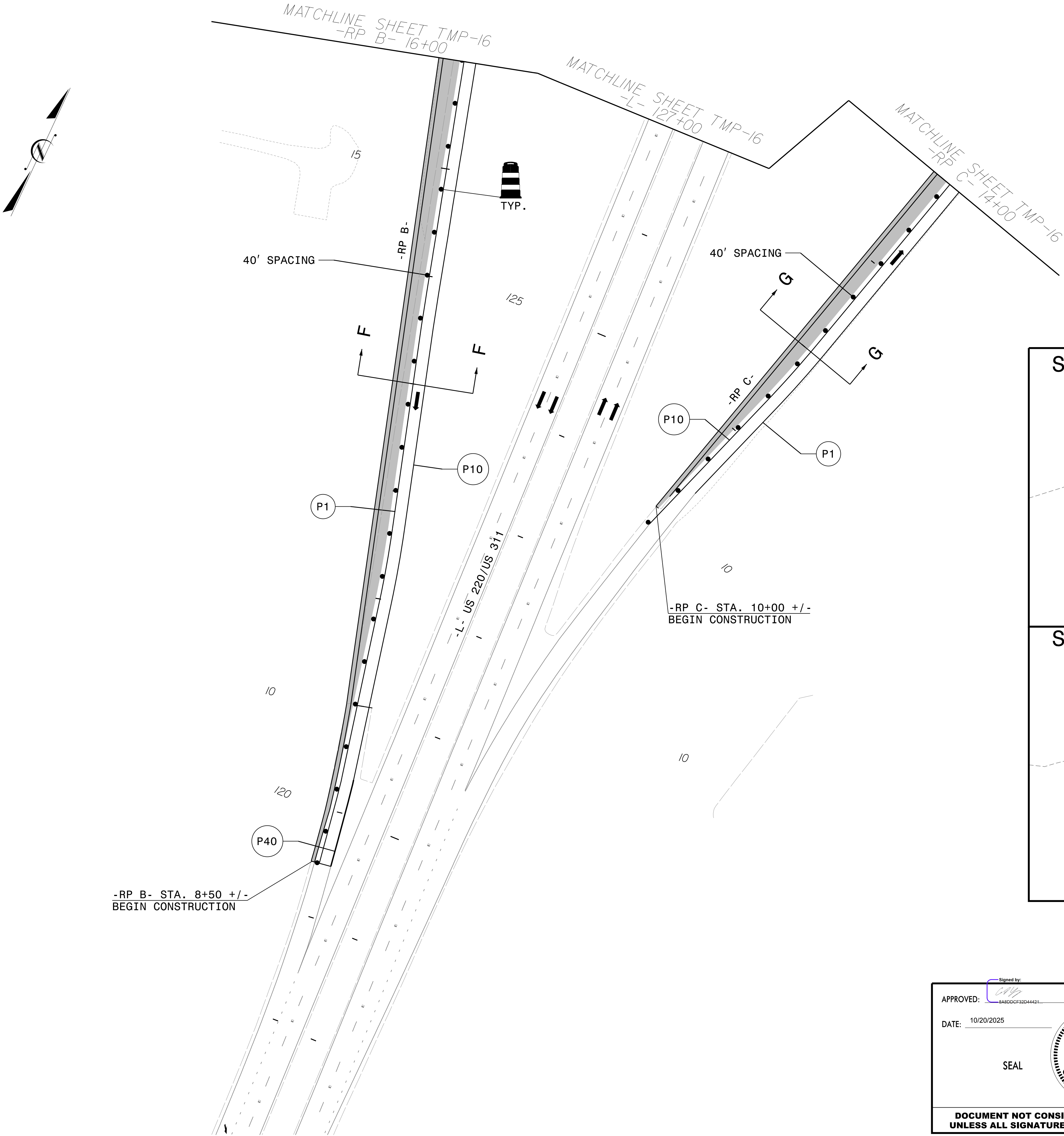
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UNLESS ALL SIGNATURES COMPLETED**

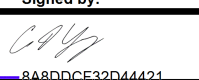


PHASE IV
DETAIL

PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-18

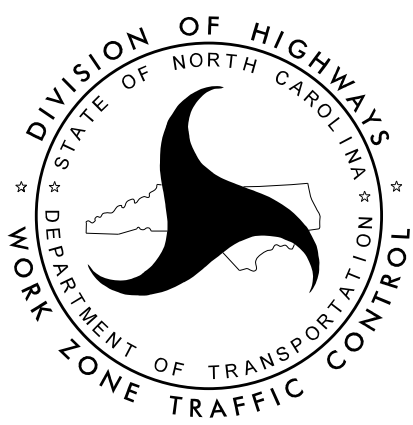


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DATE: 10/20/2025

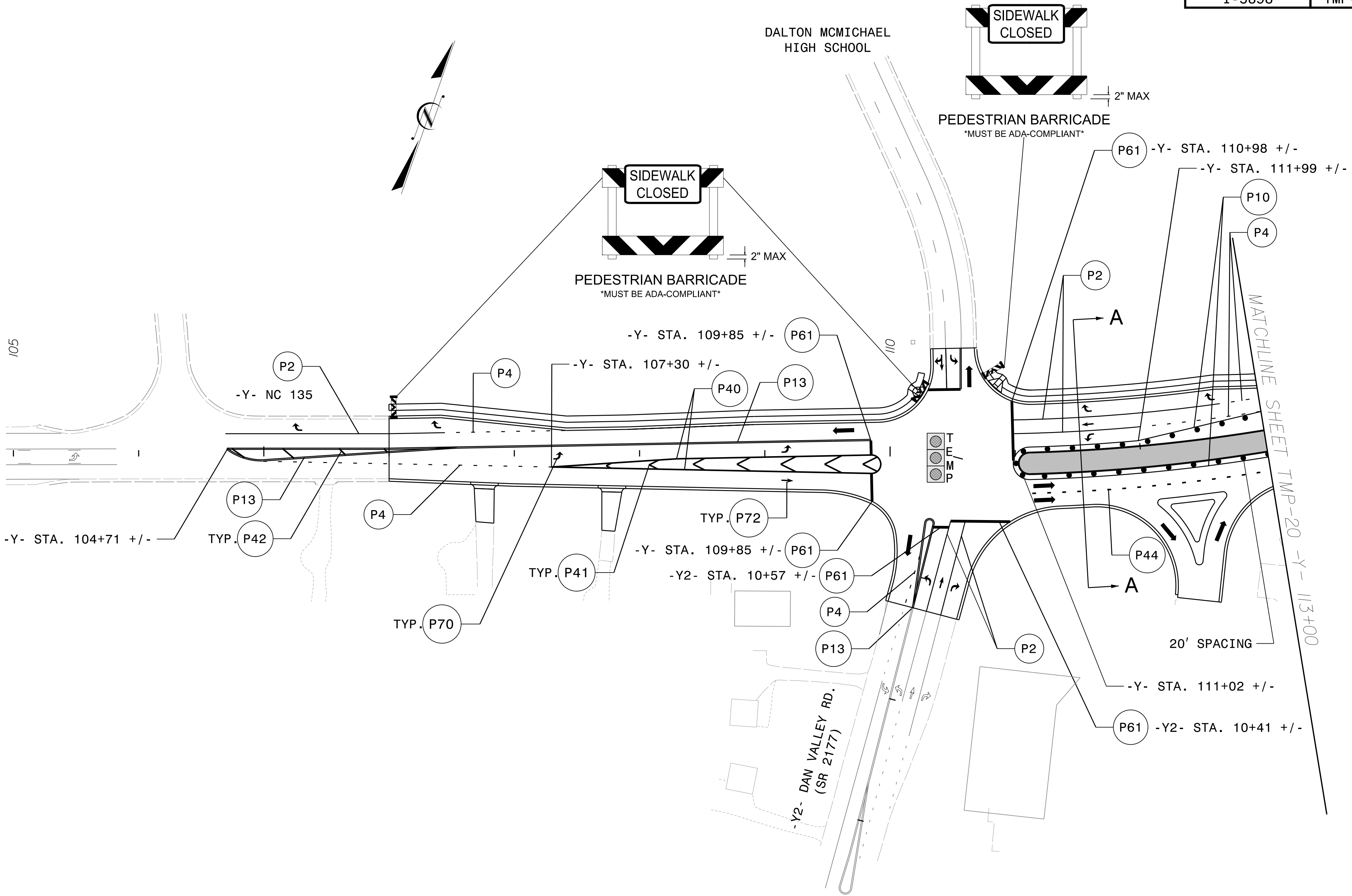
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**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

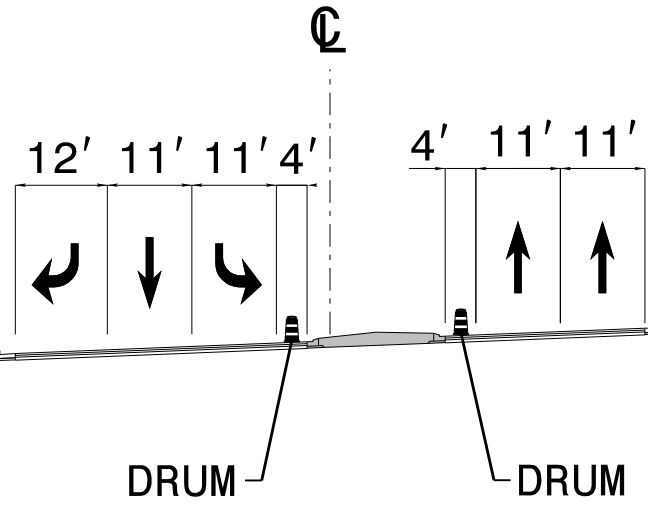


PHASE IV
DETAIL

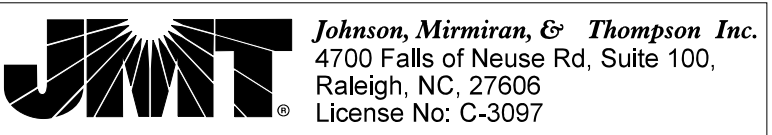
PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-19



SECTION A-A



-Y-
111+50



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DATE: 10/20/2025

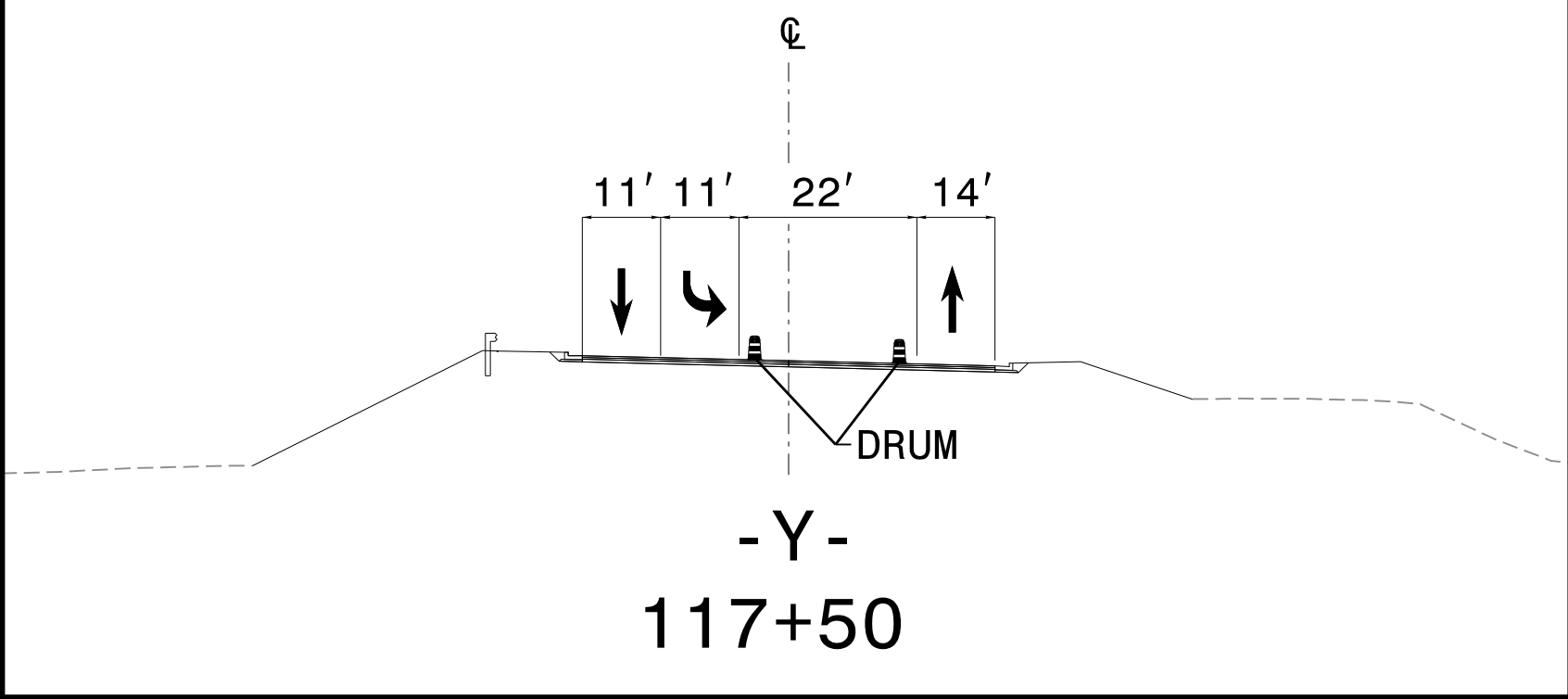
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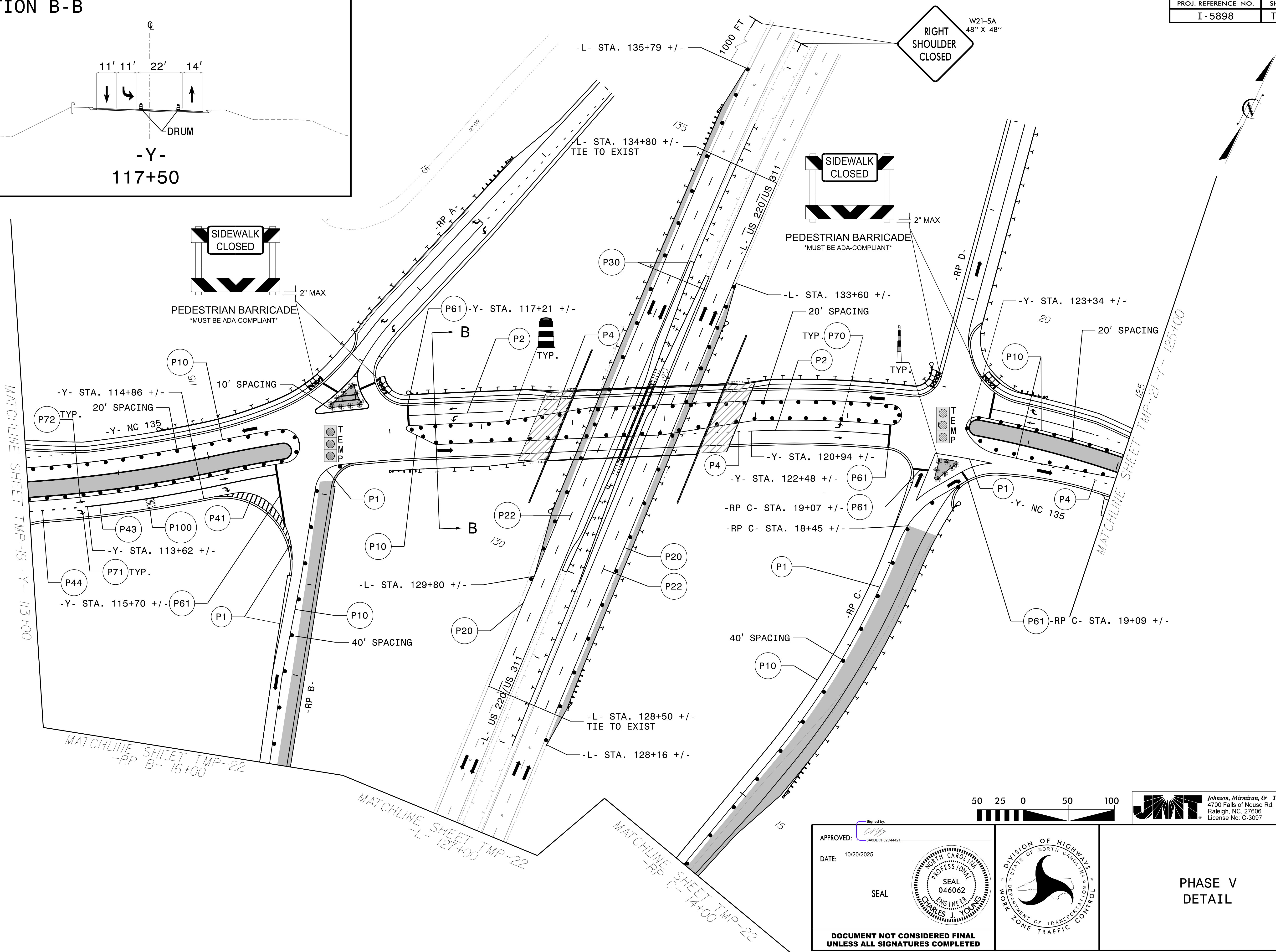


PHASE V
DETAIL

SECTION B-B



PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-20

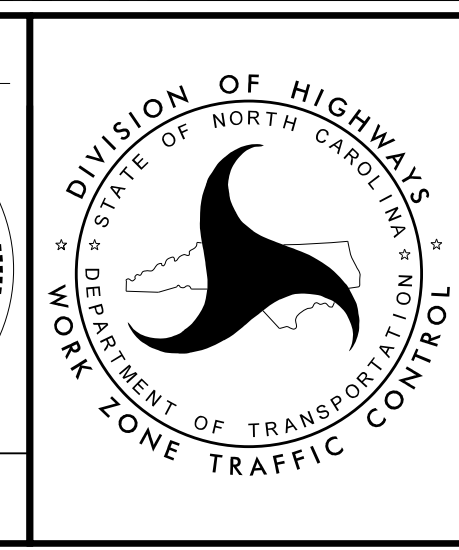


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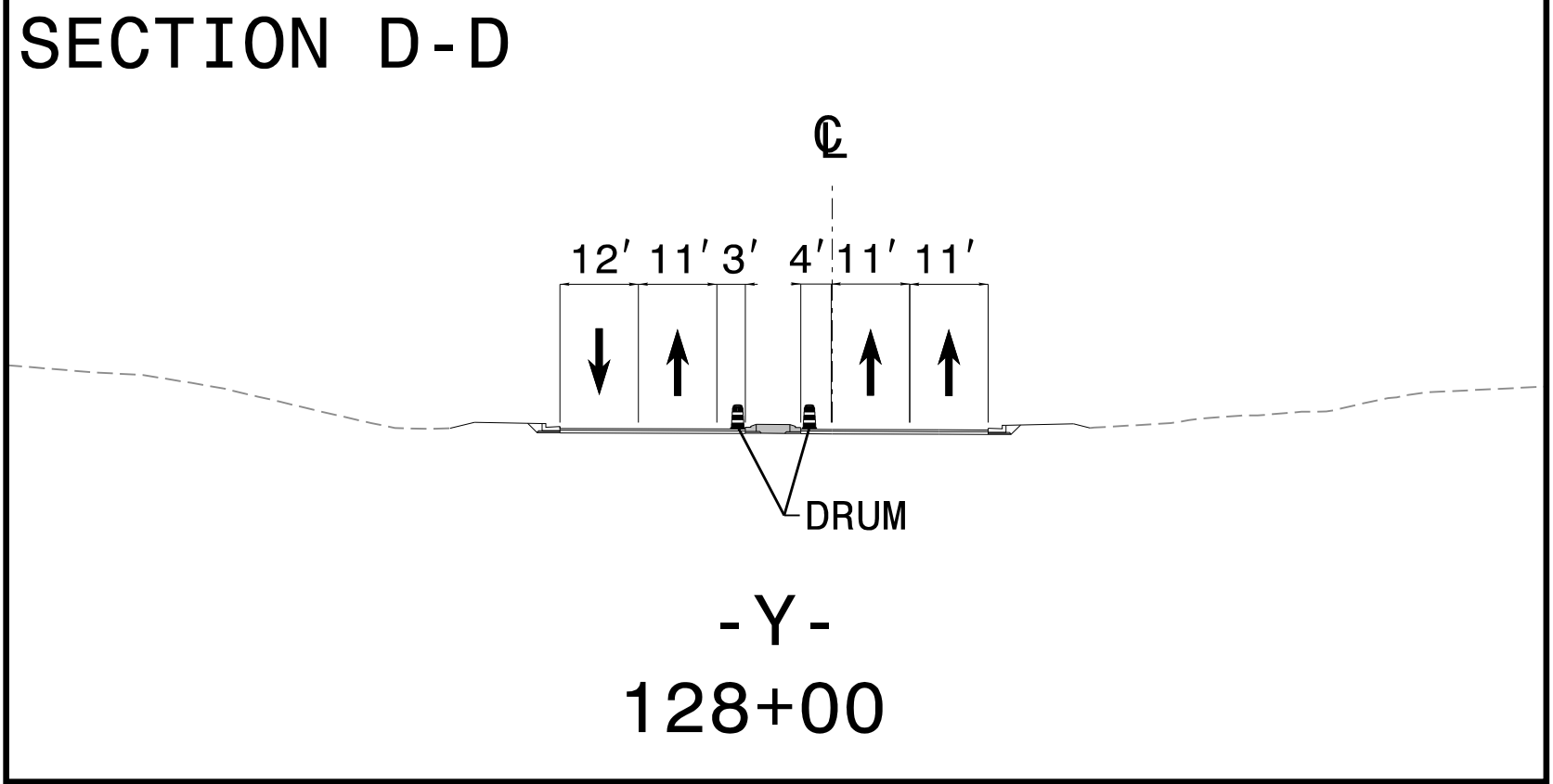
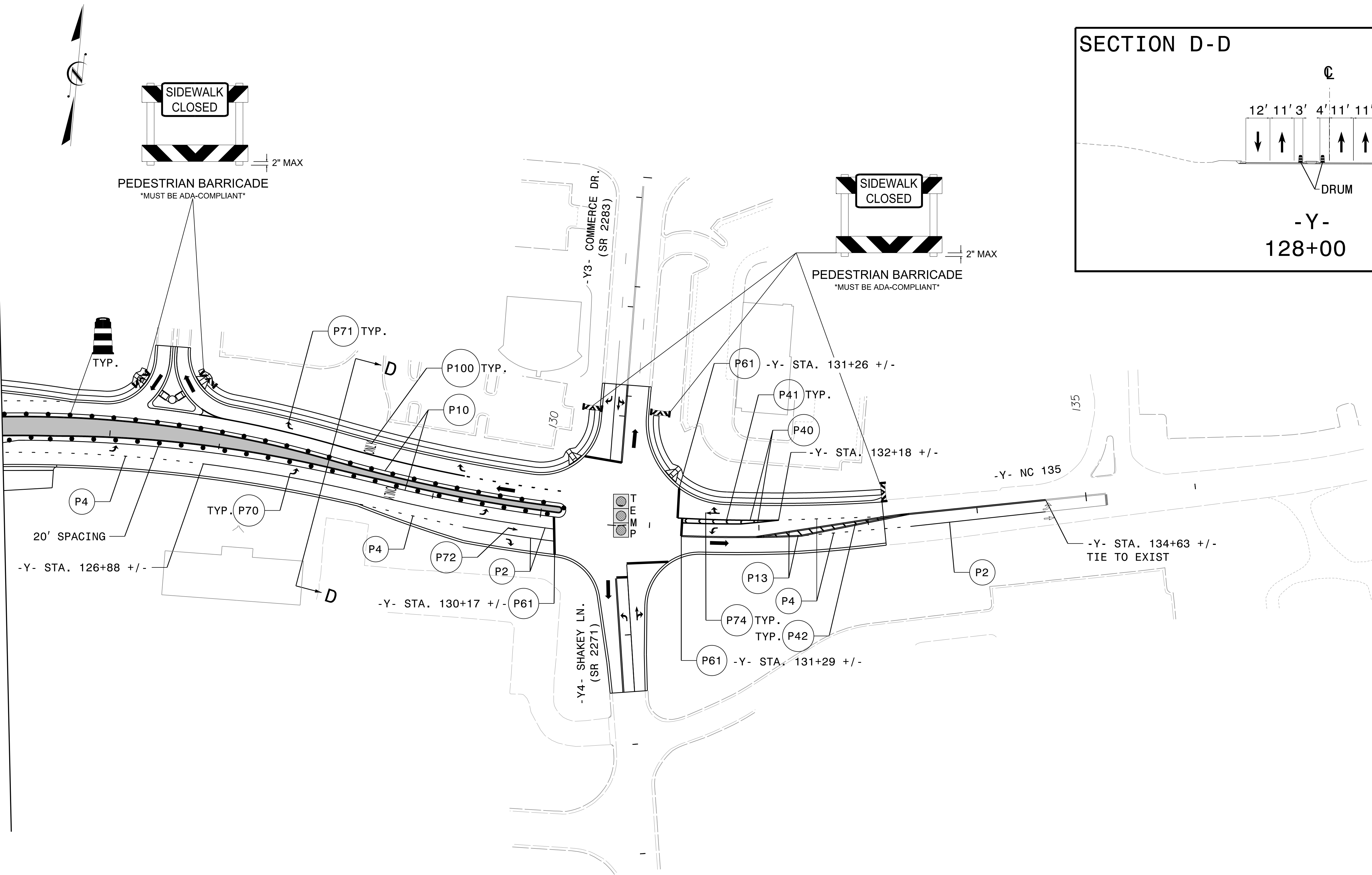


PHASE V
DETAIL

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User:jmt

PROJ. REFERENCE NO.	SHEET NO.
I-5898	TMP-21

MATCHLINE SHEET TMP-20 -Y- 125+00



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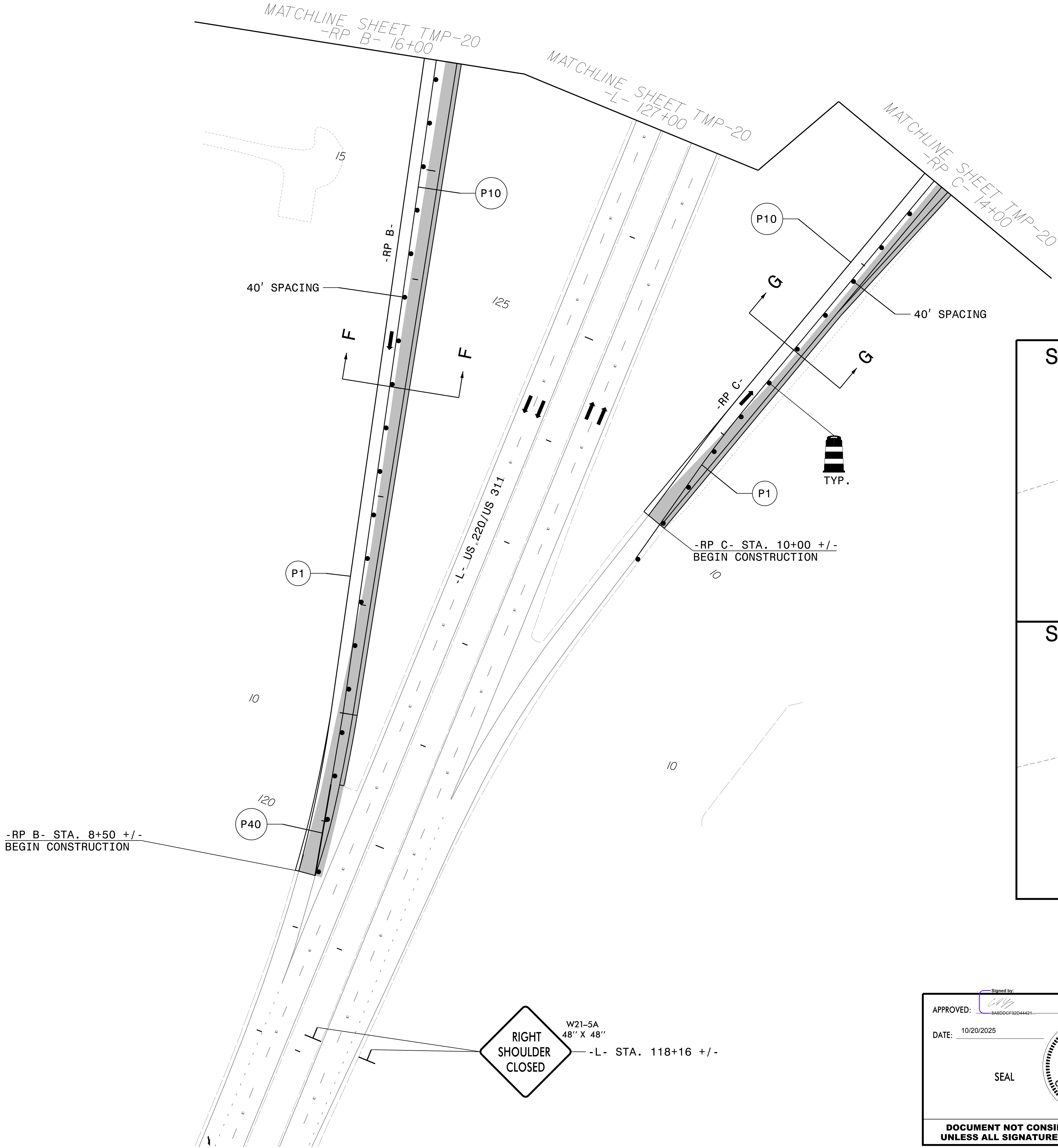
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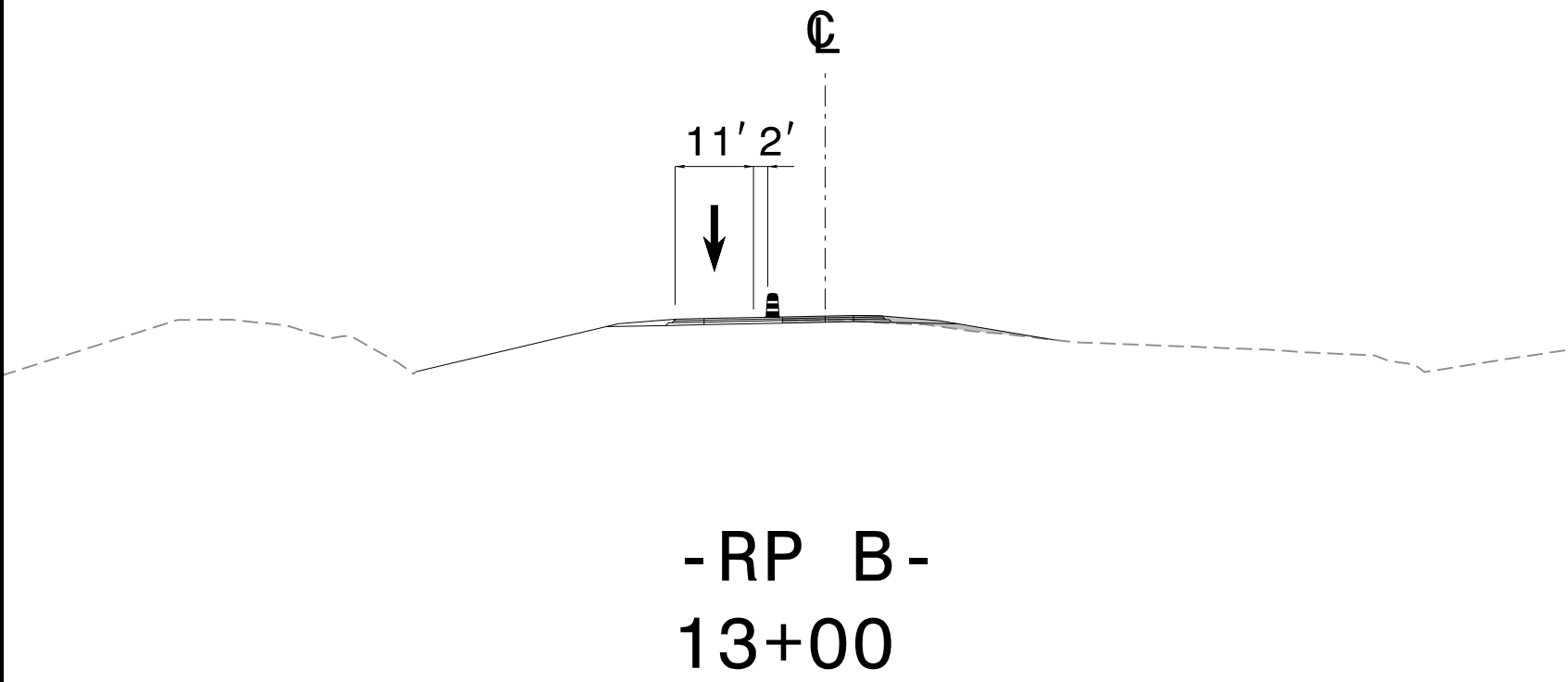


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DETAIL

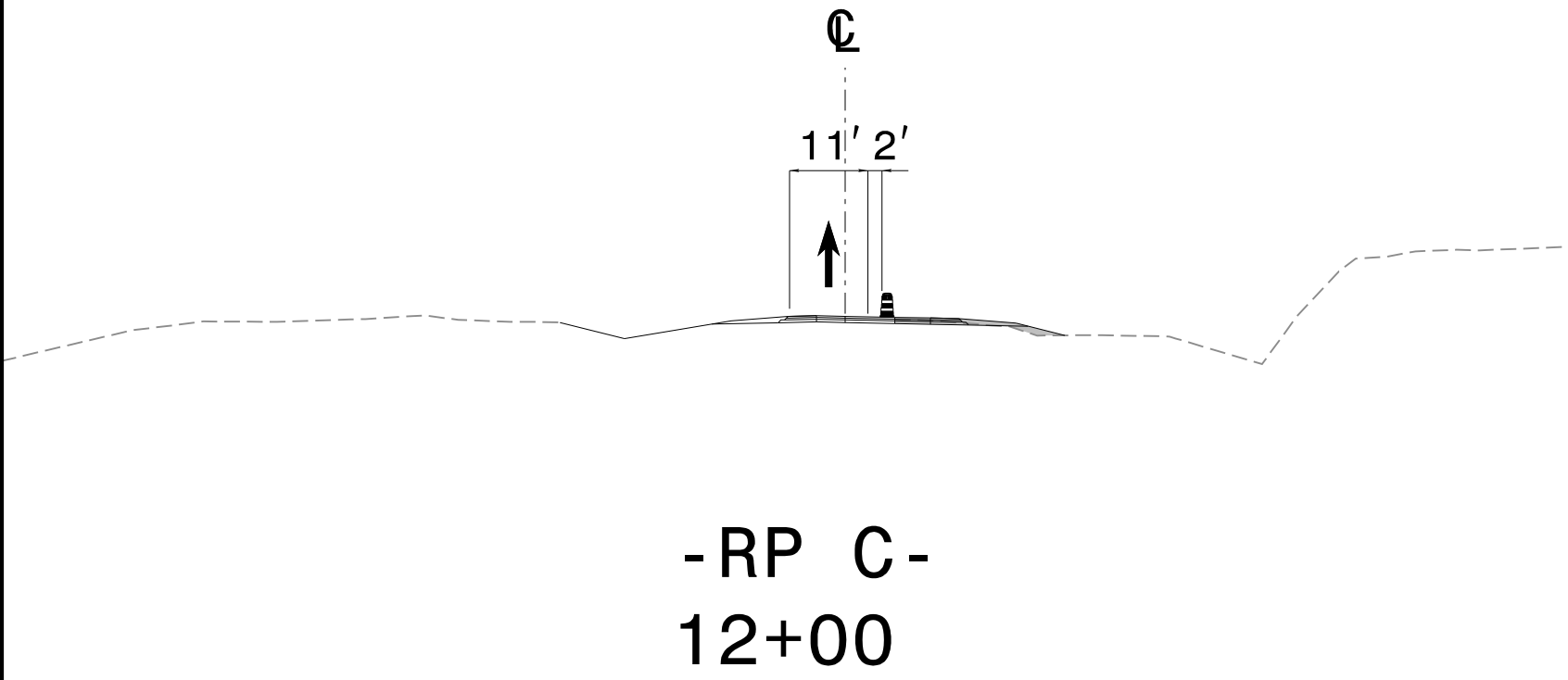
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I-5898	TMP-22



SECTION F-F



SECTION G-G



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PHASE V
DETAIL