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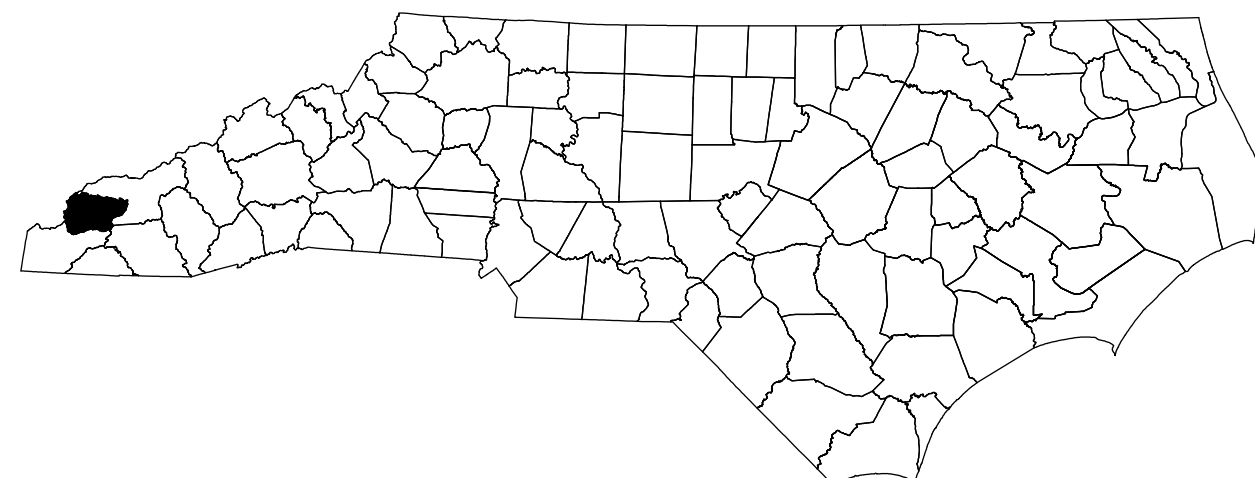
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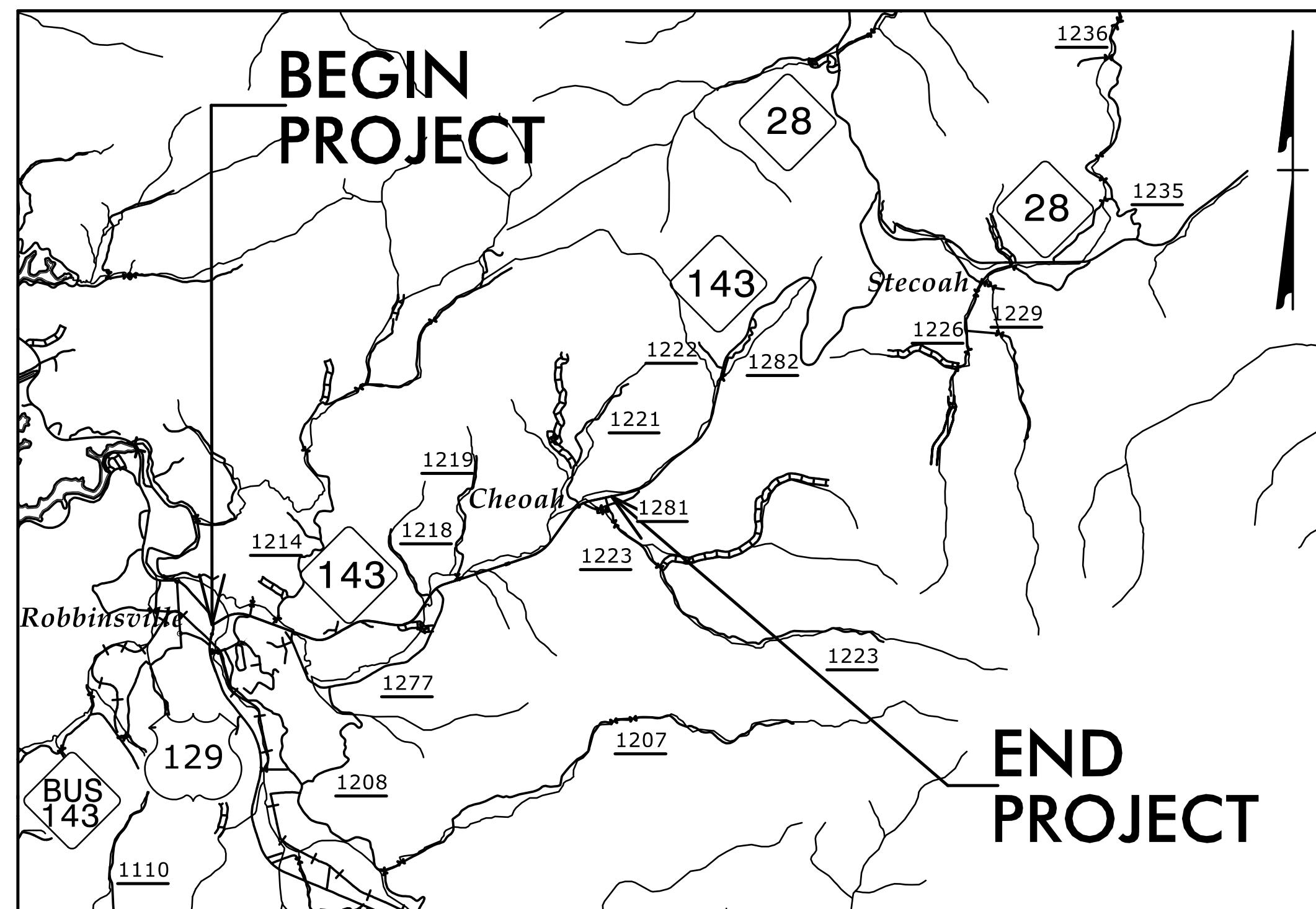
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**GRAHAM COUNTY**  
DIVISION 14



**US 129 FROM SOUTH OF SR 1275 (FIVE POINTS RD) TO NC 143**  
**NC 143 FROM US 129 TO SR 1223 (BEECH CREEK RD)**

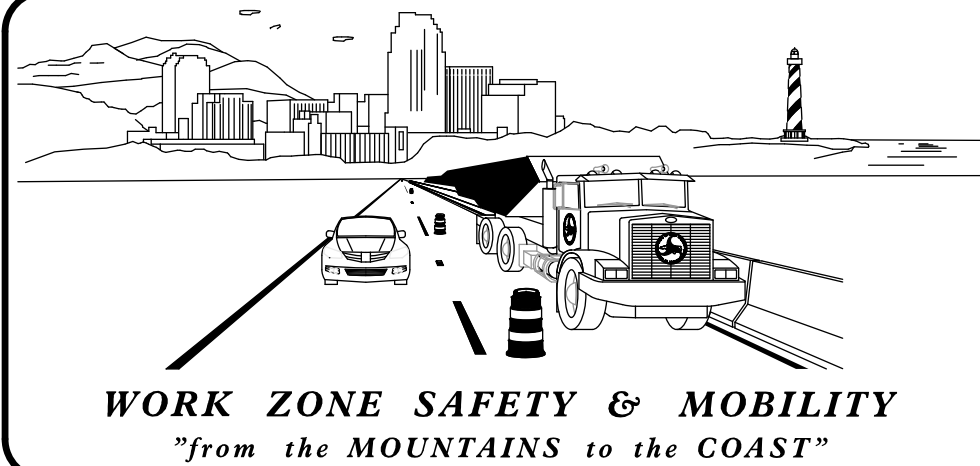


**VICINITY MAP**

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<u>SHEET NO.</u>	<u>TITLE</u>
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TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES)
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SHEET NO.  
TMP-1


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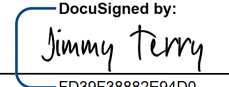
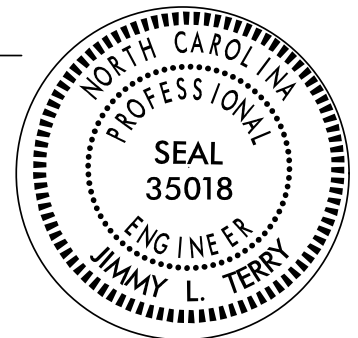


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 SEAL  


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**TIP PROJECT: A-0009CA**



# ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
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
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

# 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
- WEDGING

## SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY
- PORTABLE

## PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

## TRAFFIC CONTROL DEVICES

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

## TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

## PAVEMENT MARKERS

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

## PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

## TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION
PAVEMENT MARKINGS	
PAINT (4")	
P1	(4") WHITE EDGELINE
P2	(4") WHITE SOLID LANE LINE
P4	(4") 3 FT. - 9 FT./SP WHITE MINISKIP
P11	(4") YELLOW SINGLE CENTER
P12	(4") 10 FT. YELLOW SKIP
P13	(4") YELLOW DOUBLE CENTER
PAINT (8")	
P40	(8") WHITE GORELINE
P46	(8") WHITE CROSSWALK LINE

SYMBOL	DESCRIPTION
PAVEMENT MARKINGS	
PAINT (24")	
P61	(24") WHITE STOPBAR
PAINT MARKING SYMBOLS	
P70	LEFT TURN ARROW
P72	STRAIGHT ARROW

5/26/2022 10:00:00 AM User: jsmelvin

APPROVED:			<p>ROADWAY STANDARD DRAWINGS &amp; LEGEND</p>
DATE: 5/31/2022			
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# GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-1B

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

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

### TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
	NOTE: WHILE SCHOOL IS IN SESSION ADD THE FOLLOWING RESTRICTIONS:
NC 143 (-L-) US 129 TO SR 1213 } US 129 (-Y1-)	MON THRU FRI 7:00 AM TO 9:00 AM MON THRU FRI 2:00 PM TO 4:00 PM

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

ROAD NAME
NC 143 (-L-) US 129 (-Y1-) ANY OTHER 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 2:00 P.M. DECEMBER 31st TO 9:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 A.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 2:00 P.M. THURSDAY AND 9:00 A.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 2:00 P.M. FRIDAY TO 9:00 A.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 2:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE DAY AFTER INDEPENDENCE DAY.  
  
IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 2:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 2:00 P.M. FRIDAY AND 9:00 A.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 2:00 P.M. TUESDAY TO 9:00 A.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 2:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

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

### PAVEMENT EDGE DROP OFF REQUIREMENTS

- I) 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.
- J) 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) 250 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

- L) 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.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- N) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 250 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

### TRAFFIC BARRIER

- O) 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.

- P) 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

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

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

ROAD NAME	MARKING	MARKER
NC 143	PAINT	TEMPORARY RAISED
US 129	PAINT	TEMPORARY RAISED
ANY OTHER ROAD	PAINT	NONE

- U) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE.

- V) 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.

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

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

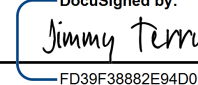
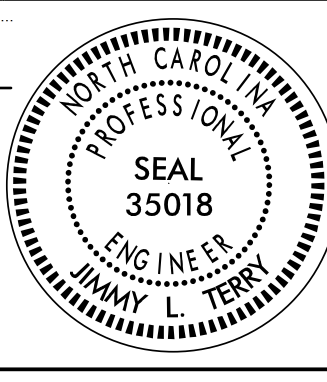
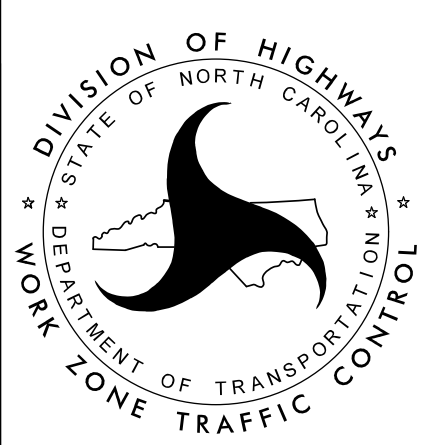
### MISCELLANEOUS

- Y) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- Z) 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.
- AA) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

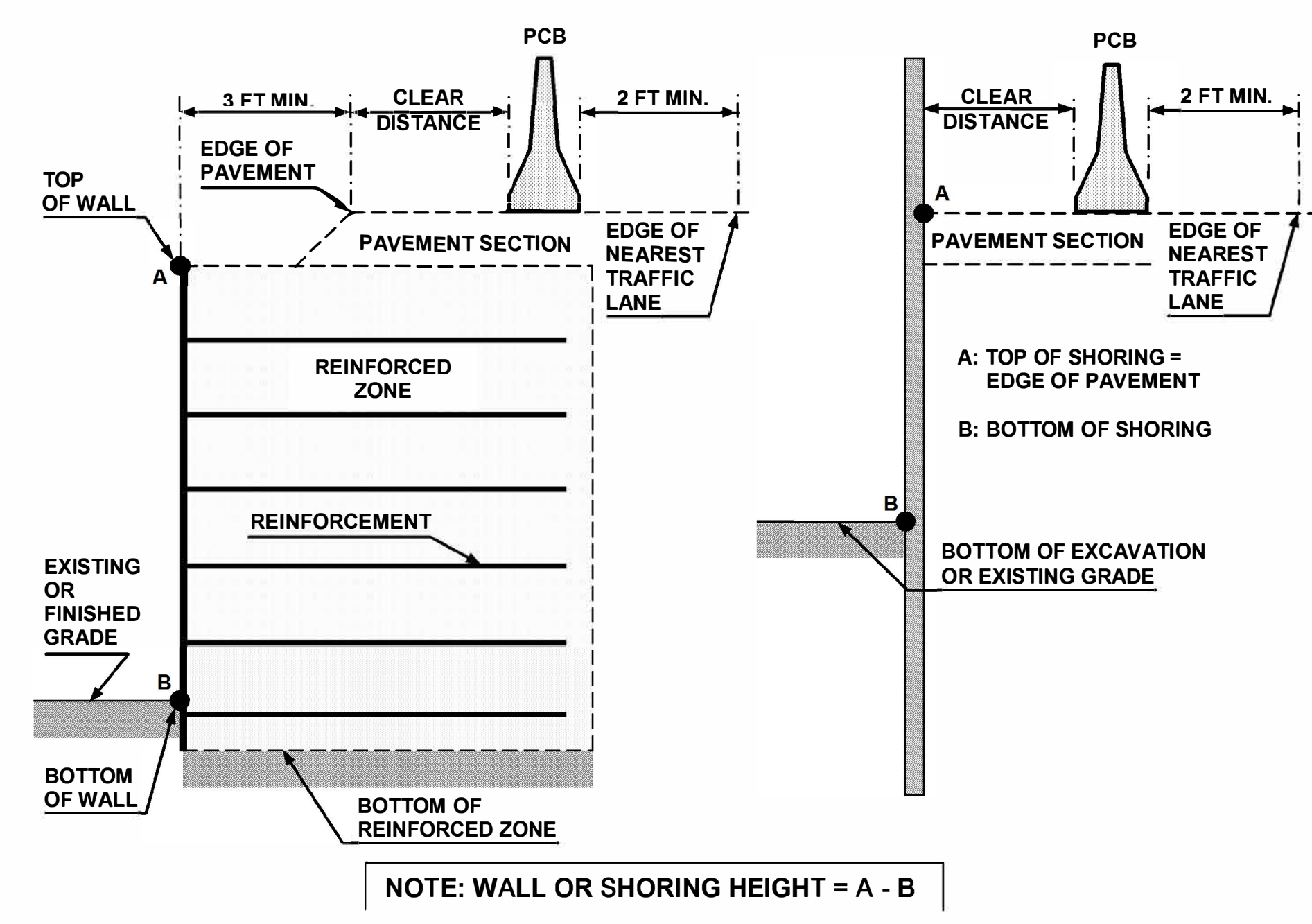
## MANAGEMENT STRATEGIES

THE PROPOSED NC 143 (-L-), US 129 (-Y1-), AND ALL OTHER ROADS IN THIS PROJECT WILL BE CONSTRUCTED USING A COMBINATION OF SHIFTING TRAFFIC, ON-SITE DETOURS, TEMPORARY LANE CLOSURES AND FLAGGERS.

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APPROVED:  DATE: 5/31/2022 		<b>TRANSPORTATION OPERATIONS PLAN</b>
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**FIGURE A**

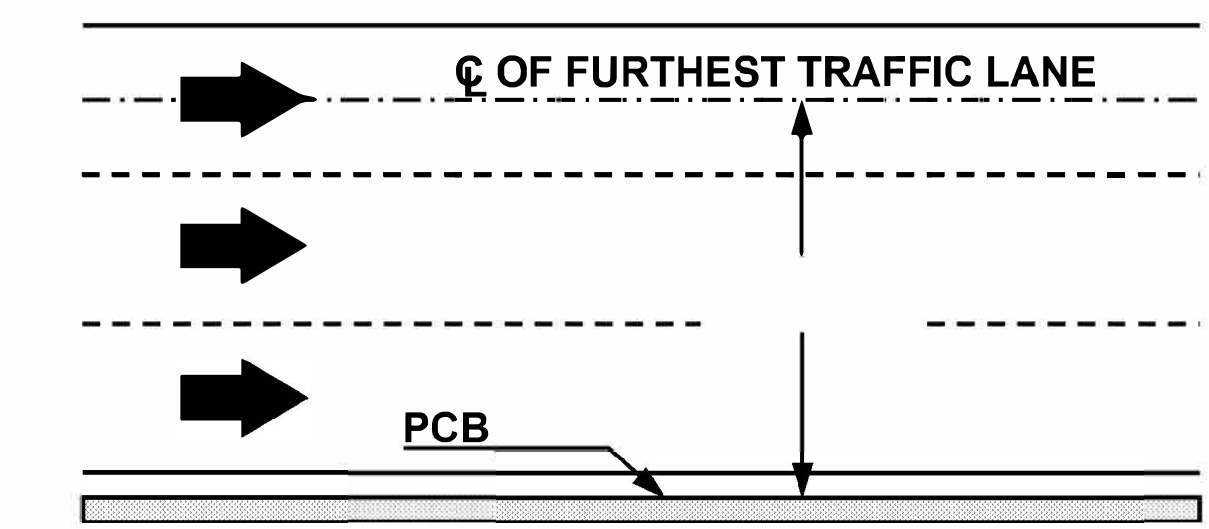
**NOTES**

- 1- REFER TO THE TRAFFIC CONTROL PLANS FOR TEMPORARY SHORING LOCATIONS AND NOTES.
- 2- REFER TO THE "TEMPORARY SHORING" PROJECT SPECIAL PROVISION FOR INFORMATION ABOUT TEMPORARY SHORING AND PORTABLE CONCRETE BARRIER (PCB).
- 3- PCB IS REQUIRED IF TEMPORARY SHORING IS LOCATED WITHIN THE CLEAR ZONE IN ACCORDANCE WITH THE AASHTO ROADSIDE DESIGN GUIDE. DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE. (CONTACT NCDOT PAVEMENT MANAGEMENT UNIT FOR APPLICABLE PAVEMENT DESIGN).
- 4- BASED ON THE CLEAR DISTANCE, OFFSET, DESIGN SPEED AND PAVEMENT TYPE, CHOOSE AN UNANCHORED OR ANCHORED PCB FROM THE TABLE SHOWN IN FIGURE B. CLEAR DISTANCE IS DEFINED AS SHOWN IN FIGURE A AND OFFSET IS DEFINED AS SHOWN IN FIGURE B.
- 5- AT THE CONTRACTOR'S OPTION OR IF THE MINIMUM REQUIRED CLEAR DISTANCE IS NOT AVAILABLE, SET PCB NEXT TO AND UP AGAINST THE TRAFFIC SIDE OF THE TEMPORARY SHORING EXCEPT FOR BARRIER ABOVE TEMPORARY WALLS. PCB WITH THE MINIMUM REQUIRED CLEAR DISTANCE IS REQUIRED ABOVE TEMPORARY WALLS.
- 6- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.
- 7- PCB REQUIREMENTS FOR TEMPORARY WALLS APPLY TO TEMPORARY MECHANICALLY STABILIZED EARTH (MSE) WALLS AND TEMPORARY SOIL NAIL WALLS.
- 8- SET PCB WITH A MINIMUM HORIZONTAL DISTANCE OF 2 FT BETWEEN THE FRONT FACE OF THE BARRIER AND THE EDGE OF THE NEAREST TRAFFIC LANE AS SHOWN IN FIGURE A UNLESS OTHERWISE SHOWN IN THE PLANS AND OR AS APPROVED BY THE ENGINEER.
- 9- FOR PCB ABOVE AND BEHIND TEMPORARY WALLS, PROVIDE A MINIMUM DISTANCE OF 3 FT BETWEEN THE EDGE OF PAVEMENT AND THE WALL FACE AS SHOWN IN FIGURE A. IF THESE MINIMUM REQUIRED DISTANCES ARE NOT AVAILABLE, CONTACT THE ENGINEER.
- 10- TABLE SHOWN IN FIGURE B IS BASED ON NCDOT RESEARCH PROJECT NO. 2005-010 WITH VEHICLE TYPE USED FOR NCHRP 350 CRASH TESTS. BARRIER DEFLECTIONS AND RESULTING MINIMUM REQUIRED CLEAR DISTANCES MIGHT VARY SIGNIFICANTLY FOR LARGER HEAVIER VEHICLES, RUNS OF BARRIER LESS THAN 200 FT IN LENGTH AND WET OR DRY PAVEMENT.

**MINIMUM REQUIRED CLEAR DISTANCE, inches**

Barrier Type	Pavement Type	Offset * ft	Design Speed, mph					
			<30	31-40	41-50	51-60	61-70	71-80
Unanchored PCB	Asphalt	<8	24	26	29	32	36	40
		8-14	26	28	31	35	38	42
		14-20	27	29	34	36	39	43
		20-26	28	31	35	38	40	44
		26-32	29	32	36	39	42	45
		32-38	30	34	38	41	43	46
		38-44	31	34	41	43	45	48
		44-50	31	35	41	43	46	49
		50-56	32	36	42	44	47	50
	>56	32	36	42	45	47	51	
	Concrete	<8	17	18	21	22	25	26
		8-14	19	20	23	25	26	29
		14-20	22	22	24	26	28	31
		20-26	23	24	26	27	30	34
		26-32	24	25	27	28	32	35
		32-38	24	26	27	30	33	36
		38-44	25	26	28	30	34	37
		44-50	26	26	28	32	35	37
50-56		26	26	28	32	35	38	
>56	26	27	29	32	36	38		
Anchored PCB	Asphalt	All Offsets	24 for All Design Speeds					
Anchored PCB	Concrete (including bridge approach slabs)	All Offsets	12 for All Design Speeds					

\* See Figure Below



**FIGURE B**

APPROVED: <u>Jimmy Terry</u> DATE: 5/31/2022 SEAL 		PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
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# TEMPORARY SHORING DATA

PROJ. REFERENCE NO. A - 0009CA	SHEET NO. TMP - 2A
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Shoring Location DET S5:

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

TEMPORARY SHORING IS REQUIRED FOR THE STRUCTURE CONSTRUCTION FROM -DET S5- STATION 17+63 +/-, 21' RT TO -DET S5- STATION 18+20, 21' RT.

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 -DET S5- STATION 17+63 +/-, 21' RT TO -DET S5- STATION 18+20, 21' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

- UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF
- FRICTION ANGLE ( $\phi$ ) = 30 DEGREES
- COHESION (c) = 0 LB/SF
- GROUNDWATER ELEVATION = 2073 FT

DRIVEN PILING FOR TEMPORARY SHORING FROM -DET S5- STATION 17+63 +/-, 21' RT TO -DET S5- STATION 18+20, 21' RT MAY NOT PENETRATE BELOW ELEVATION 2072 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

IF GROUNDWATER OR THE FLOOD ELEVATION IS ABOVE THE REINFORCED ZONE, DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM -DET S5- STATION 17+63 +/-, 21' RT TO -DET S5- STATION 18+20, 21' RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM -DET S5- STATION 17+63 +/-, 21' RT TO -DET S5- STATION 18+20, 21' RT. SEE STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

Shoring Location DET S8:

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

TEMPORARY SHORING IS REQUIRED FOR THE STRUCTURE CONSTRUCTION FROM -DET S8- STATION 16+03 +/-, 21' LT TO -DET S8- STATION 17+10, 21' LT.

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 -DET S8- STATION 16+03 +/-, 21' LT TO -DET S8- STATION 17+10, 21' LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:


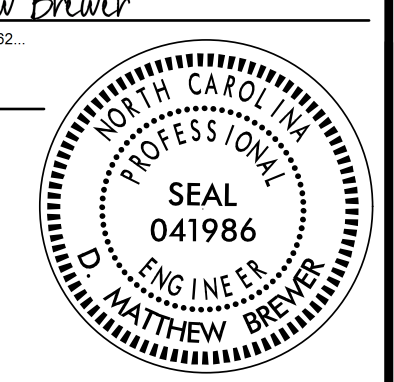

- UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF
- FRICTION ANGLE ( $\phi$ ) = 30 DEGREES
- COHESION (c) = 0 LB/SF
- GROUNDWATER ELEVATION = 2190.5 FT

DRIVEN PILING FOR TEMPORARY SHORING FROM -DET S8- STATION 16+03 +/-, 21' LT TO -DET S8- STATION 17+10, 21' LT MAY NOT PENETRATE BELOW ELEVATION 2181 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

IF GROUNDWATER OR THE FLOOD ELEVATION IS ABOVE THE REINFORCED ZONE, DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM -DET S8- STATION 16+03 +/-, 21' LT TO -DET S8- STATION 17+10, 21' LT.

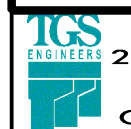
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM -DET S8- STATION 16+03 +/-, 21' LT TO -DET S8- STATION 17+10, 21' LT. SEE STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

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APPROVED:  <small>388129C0A6C1482...</small> DATE: 5/31/2022			<h2 style="margin: 0;">TEMPORARY SHORING DATA</h2>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			



# PHASING

PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-3A
 TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

CONSTRUCTION OF PROJECT A-0009CA WILL OCCUR IN 2 SEPARATE AREAS. THE CONTRACTOR MAY WORK CONCURRENTLY IN BOTH.

AREA A: US 129 FROM SOUTH OF SR 1275 (FIVE POINTS RD) TO NC 143  
AREA B: NC 143 FROM US 129 TO SR 1223 (BEECH CREEK RD)

### NOTES:

- UNLESS OTHERWISE NOTED PROVIDE ACCESS TO ALL DRIVES AND SIDE STREETS AT ALL TIMES.
- UNLESS OTHERWISE NOTED MAINTAIN THE EXISTING TRAFFIC PATTERN OF US 129, NC 143 AND ALL APPLICABLE STREETS IN THE PROJECT AREA AT ALL TIMES WHILE FLAGGERS ARE NOT AT WORK.
- COVER ALL TEMPORARY AND FINAL SIGNALS PRIOR TO ACTIVATION. UNCOVER AND ACTIVATE AS DIRECTED BY THE ENGINEER.
- INSTALL ADVANCED WORK ZONE WARNING SIGNS ON ALL ALIGNMENT IN ACCORDANCE WITH NCDOT RSD 1101.01, SHEET 3 OF 3.
- UNLESS OTHERWISE NOTED USE NCDOT RSD 1101.02, SHEET 1 OF 14 FOR TEMPORARY LANE CLOSURES.
- WHEN WEDGING OVER EXISTING PAVEMENT, WEDGE TO PROPOSED ELEVATION LESS THE FINAL LAYER OF SURFACE COURSE, OR WEDGE AS NEEDED TO MAINTAIN TRAFFIC AS DIRECTED BY THE ENGINEER.

## US 129 CONSTRUCTION

### PHASE I

#### STEP 1 (TMP-4)

PRIOR TO BEGINNING ANY CONSTRUCTION IN EITHER INTERSECTION REVISE THE EXISTING SIGNALS AT US 129 AND SR 1106(MAIN ST) AND AT US 129 AND NC 143. SEE SIGNAL PLANS FOR LAYOUT.

#### STEP 2 (TMP-4 & TMP-5)

USING TEMPORARY LANE CLOSURES IN ACCORDANCE WITH NCDOT RSD 1101.02, SHEETS 1 AND 2 OF 14 AND FLAGGERS WEDGE AND WIDEN THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:

US 129 FROM -Y1- STA 13+70± TO STA 37+20±  
NC 143 FROM -L- STA 10+20± TO STA 10+84±

SR 1275 FROM -Y1A- STA 10+19± STA TO 10+63±  
SR 1106 FROM -Y1B- STA 13+14± TO STA 13+99±  
FORD ST FROM -Y1C- STA 11+71± TO STA 12+19±

USING TEMPORARY LANE CLOSURES AND FLAGGERS PLACE TEMPORARY PAVEMENT MARKINGS IN THE CURRENT TRAFFIC PATTERN AS FOLLOWS:

FROM -Y1- STA 13+70± TO 37+20±  
FROM -Y1A- STA 10+19± TO 10+63±  
FROM -Y1B- STA 13+14± TO 13+99±  
REPLACE NC 143 MARKINGS AS NEEDED  
SEE TMP- 5 FOR LAYOUT

CONSTRUCT THE SIDEWALK ALONG US 129 AS FOLLOWS:  
US 129 FROM -Y1B- STA 13+06± TO -Y1- STA 36+70± LT  
US 129 FROM -Y1- STA 27+26± TO 36+75± RT  
THE CONTRACTOR SHALL NOT CLOSE BOTH SIDEWALKS AT THE SAME TIME. TO PROVIDE CONTINUOUS PEDESTRIAN ACCESS THE CONTRACTOR MAY CONSTRUCT THE NEW EB SIDEWALK FIRST WHILE THE WB SIDEWALK IS STILL OPEN. COORDINATE WITH TEMPORARY SIGNAL INSTALLATION TO PROVIDE A SAFE CROSSING AT SIGNALIZED INTERSECTION LOCATIONS.

PLACE CURB AND GUTTER AS SHOWN ON PLANS.

REMOVE EXISTING PAVEMENT AS SHOWN ON PLANS.

CONSTRUCT RETAINING WALL #1 FROM -Y1- STA 32+55± TO 34+16± RT

INSTALL FINAL SIGNALS AND COVER AT US 129 AND SR 1106 AND AT US 129 AND NC 143. SEE SIGNAL PLANS

## NC 143 CONSTRUCTION

### PHASE I

#### STEP 1

DET-S5 (TMP-6)  
A.  
WITHOUT DISTURBING EXISTING NC 143 TRAFFIC CONSTRUCT DET\_S5 FROM -DET S5- STA 11+00± TO STA 22+59±. PLACE TEMPORARY SHORING, TEMPORARY DRAINAGE STRUCTURES AND TEMPORARY PAVEMENT MARKINGS AS SHOWN ON PLANS.

B.  
JUST PRIOR OF SHIFTING TRAFFIC TO DETOUR CONSTRUCT TIE-INS WITH TEMPORARY LANE CLOSURES ON NC 143 AND PLACE TIE-IN PAVEMENT MARKINGS. PLACE DRUMS AND BARRICADES AND CLOSE A SECTION OF NC 143 TO TRAFFIC AND OPEN DETOUR TO TRAFFIC.

#### DET-DR1A (TMP-7)

A.  
WITHOUT DISTURBING EXISTING NC 143 TRAFFIC CONSTRUCT DET-DR1A FROM -DET-DR1A- STA. 10+30± TO STA 14+00±, PLACE TEMPORARY AND PERMANENT DRAINAGE STRUCTURES AS SHOWN ON PLANS.

B.  
PLACE BARRICADES AND CLOSE SWEETEN CREEK AS SHOWN ON PLANS AND OPEN DETOUR TO TRAFFIC

#### DET S8 (TMP-8)

A.  
PRIOR TO GRADING FOR DET S8 THE CONTRACTOR SHALL CONSTRUCT RETAINING WALL #6 FROM -L- STA 186+75± TO STA 192+05±. IF ROCK BLASTING IS NEEDED USE NCDOT RSD 1101.06.  
WITHOUT DISTURBING EXISTING NC 143 TRAFFIC CONSTRUCT DET S8 FROM DET S8 STA 12+16± TO STA 19+73±, PLACE TEMPORARY SHORING, TEMPORARY DRAINAGE STRUCTURES AND PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON PLANS.

B.  
JUST PRIOR OF SHIFTING TRAFFIC TO DETOUR CONSTRUCT TIE-INS WITH TEMPORARY LANE CLOSURES ON NC 143 AND PLACE PAVEMENT MARKINGS. PLACE DRUMS AND BARRICADES AND CLOSE A SECTION OF NC 143 TO TRAFFIC AND OPEN DETOUR TO TRAFFIC.

NOTE: THE CONTRACTOR MAY ELECT TO BEGIN CONSTRUCTION OF WORK DESCRIBED IN STEP 2 BEFORE COMPLETION OF WORK DESCRIBED IN STEP 1.

#### STEP 2 (TMP-9 TO TMP-16)

PRIOR TO ANY CONSTRUCTION AT THE INTERSECTION OF NC 143 AND SR 1275 REVISE THE SIGNAL. SEE SIGNAL PLANS FOR LAYOUT.

WHILE MAINTAINING THE EXISTING NC 143 TRAFFIC PATTERN AND USING TEMPORARY LANE CLOSURES IN ACCORDANCE WITH NCDOT RSD 1101.02, SHEETS 1 AND 2 OF 14, AND FLAGGERS AS NEEDED CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:(TMP-9 TO TMP-16)  
WIDEN NC 143 FROM -L- STA 10+84± TO STA 65+50±, LT & RT  
WIDEN NC 143 FROM -L- STA 65+50± TO STA 100+84± RT  
WIDEN NC 143 FROM -L- STA 65+50± TO STA 73+25± LT  
WIDEN NC 143 FROM -L- STA 80+50± TO STA 100+50± LT  
WIDEN NC 143 FROM -L- STA 113+52± TO STA 167+00± LT  
WIDEN NC 143 FROM -L- STA 118+19± TO STA 180+58± RT  
WIDEN NC 143 FROM -L- STA 168+50± TO STA 188+00± LT  
WIDEN NC 143 FROM -L- STA 201+25± TO STA 208+00± LT  
WIDEN NC 143 FROM -L- STA 202+81± TO STA 208+00± RT

CONSTRUCT SIDEWALK ALONG NC 143 AS FOLLOWS:(TMP-9)  
NC 143 FROM -L- STA 10+84± TO STA 26+18±,RT  
NC 143 FROM -L- STA 10+84+/- TO STA 26+49±, LT.  
THE CONTRACTOR SHALL KEEP EITHER THE WESTBOUND OR EASTBOUND SIDEWALK OPEN WHILE CONSTRUCTING THE OTHER.

TO PLACE PROPOSED 30" CSP UNDER SR 1312 TATHAM ROAD DO AS FOLLOWS:(TMP-11)  
STEP 2A : PLACE 35'± OF 30" CSP AND CONSTRUCT 20' WIDE GRAVEL PATH AS SHOWN ON PLANS.  
STEP 2B: WORKING IN A CONTINUOUS MANNER CLOSE PART OF SR 1213, SHIFT TRAFFIC ONTO GRAVEL PATH, PLACE REMAINING SECTION OF 30" CSP, SHIFT TRAFFIC BACK TO SR 1213, AND REMOVE GRAVEL PATH.

CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:  
-DR1A- FROM -DR1A- STA 10+05± TO STA 11+07± (TMP-15)  
-DR1- FROM -DR1- STA 10+19± TO STA 11+71± (TMP-15)  
-DR2- FROM -DR2- STA 10+27± TO STA 11+60± (TMP-9)

CONSTRUCT RETAINING WALL #2 FROM -L- STA 11+79± TO STA 12+50± LT (TMP-9)  
CONSTRUCT RETAINING WALL #4 FROM -L- STA 168+50± TO STA 171+75± LT (TMP-15)  
CONSTRUCT RETAINING WALL #5 FROM -L- STA 175+35± TO STA 176+65± RT (TMP-15)

PLACE TEMPORARY CONCRETE BARRIER ALONG NC 143 AND SR 1277 AS SHOWN ON PLANS. BEGIN CONSTRUCTION OF CULVERT EXTENSION AT -L- STA 46+41±.(TMP-10)  
SEE STRUCTURE PLANS.

WITH TRAFFIC ON DET\_S5 CONSTRUCT PROPOSED 7'X8' RCBC AT -L- STA 108+27 WIDEN AND WEDGE NC 143 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -L- STA 104+67± TO STA 110+67± AS SHOWN ON PLANS. (TMP-13)  
SEE STRUCTURE PLANS.

PLACE TEMPORARY CONCRETE BARRIER ALONG NC 143 AND SR 1218 AS SHOWN ON PLANS. BEGIN CONSTRUCTION OF CULVERT EXTENSION AT -L- STA 113+69±. (TMP-13)  
SEE STRUCTURE PLANS.

WITH TRAFFIC ON DET-DR1A- CONSTRUCT PROPOSED 16'X9' RCBC AT -DR1A- STA 10+59±. (SEE TMP-15), SEE STRUCTURE PLANS

WITH TRAFFIC ON DET\_S8 CONSTRUCT PROPOSED 2@12'X8' RCBC AT -L- STA 195+16±. WIDEN AND WEDGE UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE NC 143 FROM -L- STA 192+35± TO STA 198+32± AS SHOWN ON PLANS. (TMP-16)  
SEE STRUCTURE PLANS

#### STEP 3

#### TMP-17

A.  
WORKING IN A CONTINUOUS OPERATION USING NCDOT RDS 1101.02 SHEET 1 OF 14 PROVIDE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING PAVEMENT BY WEDGING AS NEEDED FROM -L STA 69+35± TO STA 87+25±, APPLY TEMPORARY PAVEMENT MARKINGS, AND SHIFT TRAFFIC AS SHOWN ON PLANS.

B.  
WIDEN NC 143 FROM -L- STA 73+25± TO STA 80+50± LT

#### TMP-18

A.  
AFTER COMPLETION OF THE CULVERT CONSTRUCTION AT -L- STA 108+27± WORKING IN A CONTINUOUS OPERATION AND USING TEMPORARY LANE CLOSURES AND FLAGGERS CONSTRUCT THE TIE-INS BETWEEN THE NEWLY CONSTRUCTED NC 143 AND THE EXISTING ALIGNMENT AS SHOWN ON PLANS.  
PLACE TEMPORARY PAVEMENT MARKINGS AND SHIFT TRAFFIC AS SHOWN ON PLANS.

B.  
WIDEN NC 143 FROM -L- STA 100+50± TO STA 105+60± LT  
WIDEN NC 143 FROM -L- STA 100+84± TO STA 104+01± RT  
WIDEN NC 143 FROM -L- STA 109+82± TO STA 113+55± LT  
REMOVE DETOUR DET\_S5 AND RESTORE LANDSCAPE

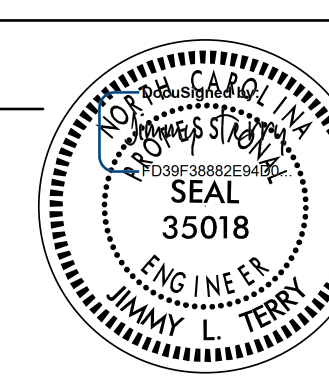
#### TMP-19

A.  
AFTER COMPLETION OF THE CULVERT AT -DR1A- STA 10+59± SHIFT TRAFFIC ONTO -DR1A- REMOVE TEMPORARY DRAINAGE AND DETOUR -DET-DR1A-

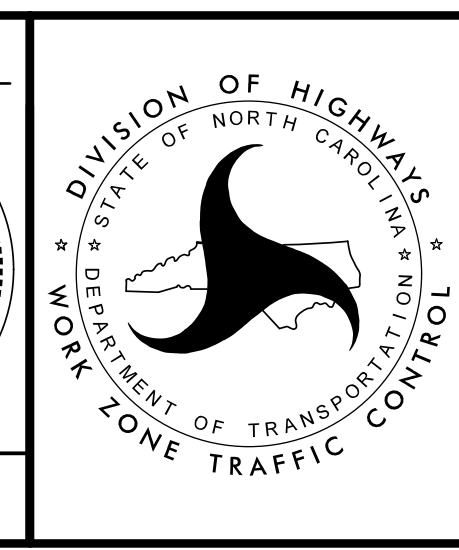
B.  
WIDEN NC 143 FROM -L- STA 167+00± TO STA 168+50± LT  
CONSTRUCT RETAINING WALL #3 FROM -L- STA 167+75± TO STA 168+50± LT

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DATE: 6/24/2022

SEAL



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

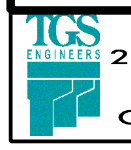


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# PHASING - cont.

PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-3B
 TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

**TMP-20**  
 A.  
 AFTER COMPLETION OF THE CULVERT CONSTRUCTION AT -L- STA 195+16± WORKING IN A CONTINUOUS OPERATION AND USING TEMPORARY CLOSURES AND FLAGGERS CONSTRUCT THE TIE-INS BETWEEN THE NEWLY CONSTRUCTED NC 143 AND THE EXISTING ALIGNMENT AS SHOWN ON PLANS.  
 PLACE TEMPORARY PAVEMENT MARKINGS AND SHIFT TRAFFIC AS SHOWN ON PLANS.

B.  
 WIDEN NC 143 FROM -L- STA 180+58± TO STA 194+00± RT  
 WIDEN NC 143 FROM -L- STA 197+00± TO STA 202+14± RT  
 WIDEN NC 143 FROM -L- STA 199+00± TO STA 201+25± LT  
 REMOVE DETOUR DET\_S8 AND RESTORE LANDSCAPE

## NC 143 CONSTRUCTION

### PHASE II

(TMP-21 TO TMP-24)

USING TEMPORARY LANE CLOSURES AND FLAGGERS WEDGE EXISTING NC 143 PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:  
 -L- STA 10+20± TO 104+67±  
 -L- STA 110+67 TO 192+35±  
 -L- STA 198+32± TO 208+00±  
 WHEN FLAGGERS ARE NOT AT WORK RETURN NC 143 TO EXISTING 3-LANE TRAFFIC PATTERN FROM US 129 TO SR 1293 (ROBBINSVILLE HS ENTRANCE) AND TO EXISTING 2-LANE 2-WAY PATTERN (11' MIN LANE WIDTH) FROM SR 1293 TO END OF CONSTRUCTION.

PLACE TEMPORARY PAVEMENT MARKINGS IN A 3-LANE PATTERN FROM US 129 TO SR 1293 (ROBBINSVILLE HS ENTRANCE) AND IN A 2-LANE 2-WAY PATTERN FROM SR 1293 TO END OF CONSTRUCTION AS SHOWN ON PLANS.  
 REPLACE EXISTING TURNING LANE MARKINGS AS DIRECTED BY THE ENGINEER.

CONSTRUCT REMAINING PAVED SHOULDERS FROM -L- STA 111+14± TO 118+19± RT (TMP-22 & TMP-23) AND FROM -L- STA 188+00± TO 191+50± LT (TMP-24)

WEDGE AND WIDEN SIDE STREETS UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON PLANS:  
 SR 1275 FIVE POINTS RD FROM -Y5- STA 12+45± TO 13+11± (TMP-21)  
 SR 1214 (MOUNTAIN CREEK RD) (TMP-21)  
 SR 1277 (OLD SWEETWATER RD) (TMP-21)  
 SR 1278 (MILT WILLIAMS RD) (TMP-21)  
 SR 1279 (GEORGE MILLSAPS RD) (TMP-22)  
 SR 1212 (T.J. WILSON) (TMP-22)  
 SR 1218 (SLAYBACON RD) (TMP-22)  
 SR 1277 (OLD SWEETWATER RD) (TMP-23)  
 SR 1219 (ENGLAND BRANCH RD) (TMP-23)  
 QUEEN HOLLAND (TMP-23)  
 SR 1223 (BEECH CREEK RD) (TMP-24)

## US 129 & NC 143 CONSTRUCTION

### PHASE III

STEP 1 (TMP-25 TO TMP-29)

USING TEMPORARY LANE CLOSURES AND FLAGGERS IN ACCORDANCE WITH NCDOT RSD 1101.02 SHEETS 1 AND 2 OF 14 PLACE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:  
 NC 143 FROM -L- STA 10+20± TO 208+00± (TMP-25 TO TMP-29)  
 US 129 FROM -Y1- STA 13+70± TO 37+20± (TMP-25)

USING TEMPORARY LANE CLOSURES AND FLAGGERS PLACE FINAL LAYER OF SURFACE COURSE ON SIDE STREETS. MILL EXISTING PAVEMENT IF NEEDED  
 SR 1275 FROM -Y1A- STA 10+19± STA TO 10+63± (TMP-25)  
 SR 1106 FROM -Y1B- STA 13+14± TO STA 13+99± (TMP-25)  
 FORD ST FROM -Y1C- STA 11+71± TO STA 12+19± (TMP-25)  
 SR 1293 (ROBBINSVILLE HS ENTRANCE) FROM -Y5- STA 11+91± TO 12+08± (TMP-26)  
 SR 1275 (FIVE POINTS RD) FROM -Y5- STA 12+45± TO 13+11± (TMP-26)  
 DR2 FROM -DR2- STA 10+27± TO 11+60± (TMP-26)  
 SR 1214 (MOUNTAIN CREEK RD) (TMP-26)  
 SR 1277 (OLD SWEETWATER RD) (TMP-26)  
 SR 1278 (MILT WILLIAMS RD) (TMP-26)  
 SR 1213 (TATHAM RD) FROM -Y6- STA 11+05± TO 12+86± (TMP-27)  
 SR 1279 (GEORGE MILLSAPS RD) (TMP-27)  
 SR 1212 (T.J. WILSON) (TMP-27)  
 SR 1218 (SLAYBACON RD) (TMP-27)  
 SR 1277 (OLD SWEETWATER RD) (TMP-28)  
 SR 1219 (ENGLAND BRANCH RD) (TMP-28)  
 QUEEN HOLLAND (TMP-28)  
 SWEETEN CREEK RD FROM -DR1A- STA 10+05± TO 11+07± (TMP-29)  
 DR1 FROM -DR1- STA 10+19± TO 11+71± (TMP-29)  
 SR 1221 (PIN HOOK RD) (TMP-29)  
 SR 1223 (BEECH CREEK RD) (TMP-29)

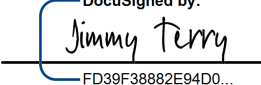
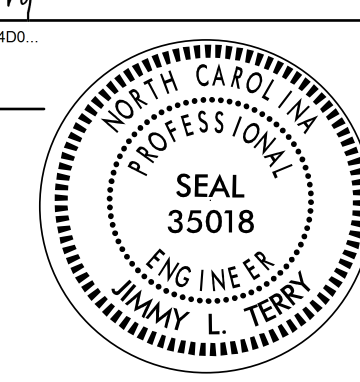

STEP 2

USING TEMPORARY LANE CLOSURES AND FLAGGERS IN ACCORDANCE WITH NCDOT RSD 1101.02 SHEETS 1 AND 2 OF 14 PLACE FINAL PAVEMENT MARKINGS AS SHOWN IN PAVEMENT MARKING PLANS.


ACTIVATE ALL FINAL SIGNALS.

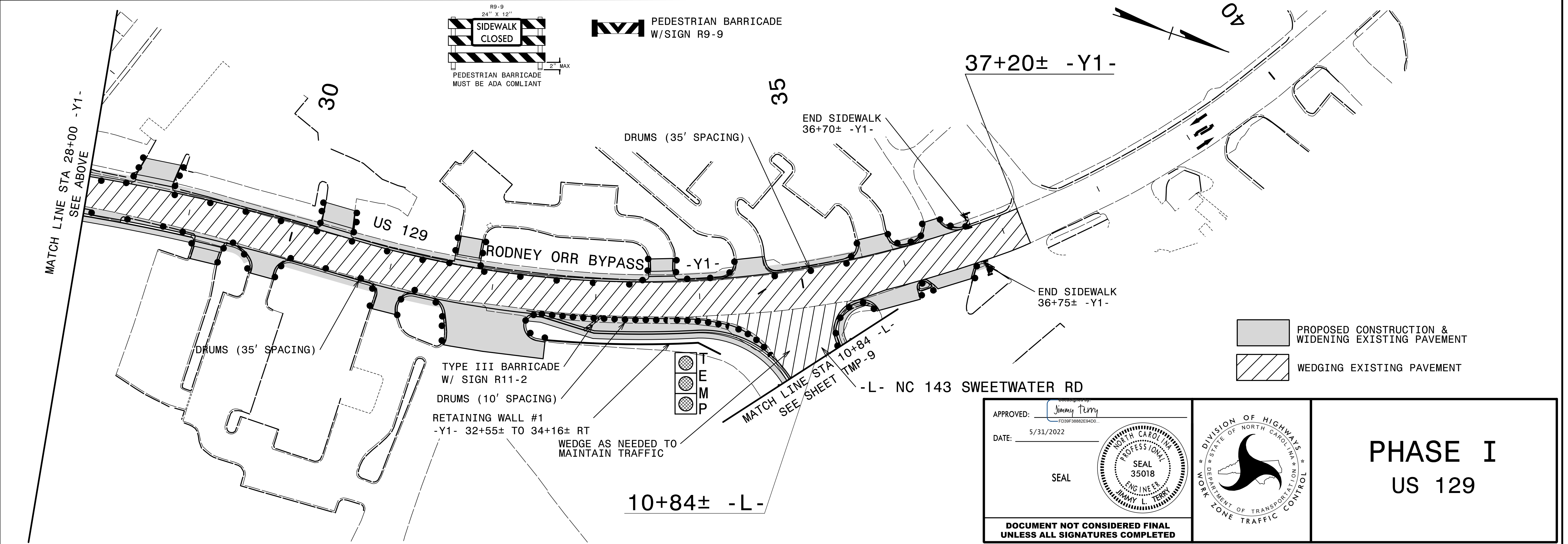
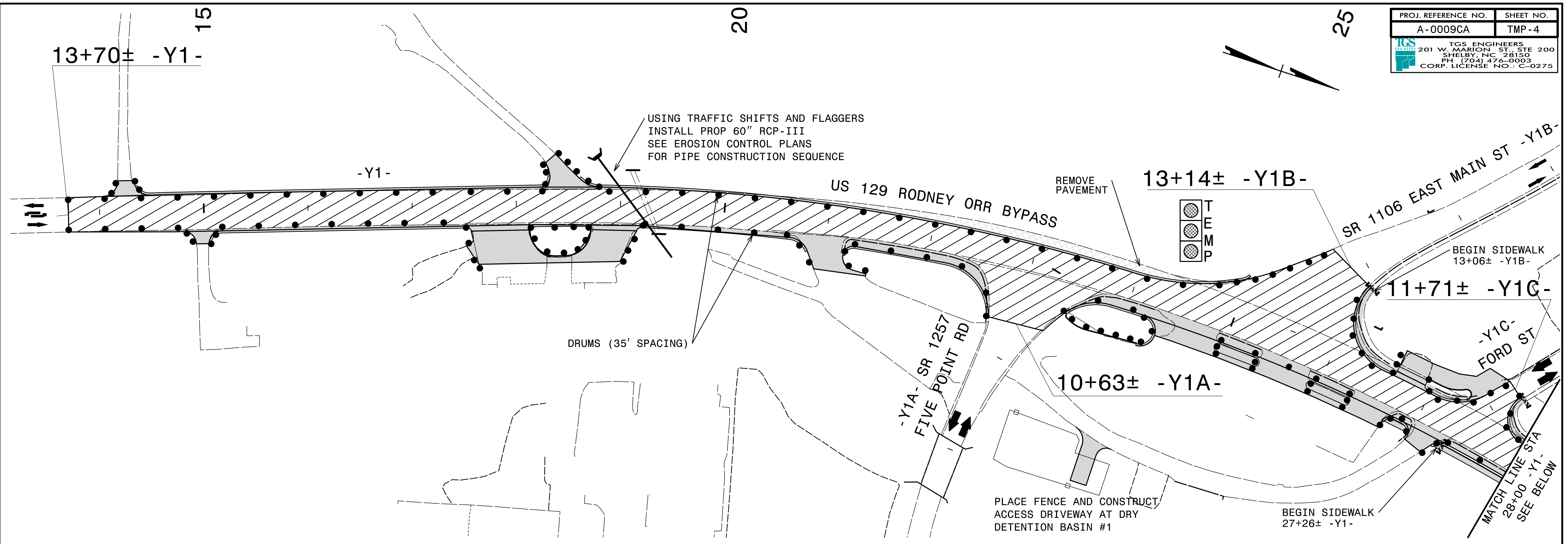
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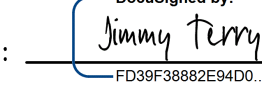
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-4
 <b>TGS ENGINEERS</b> 201 W. MARION ST., STE 200 SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275	

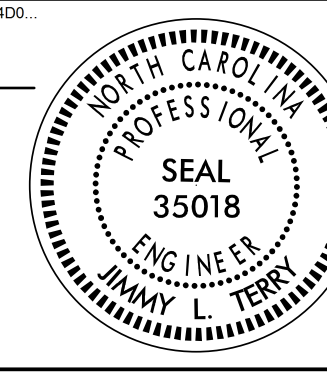


5/10/2022  
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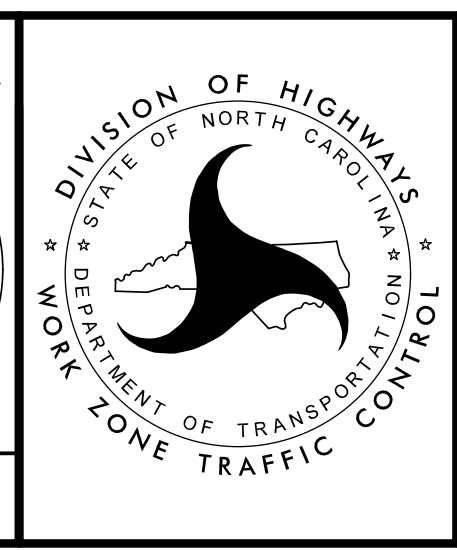
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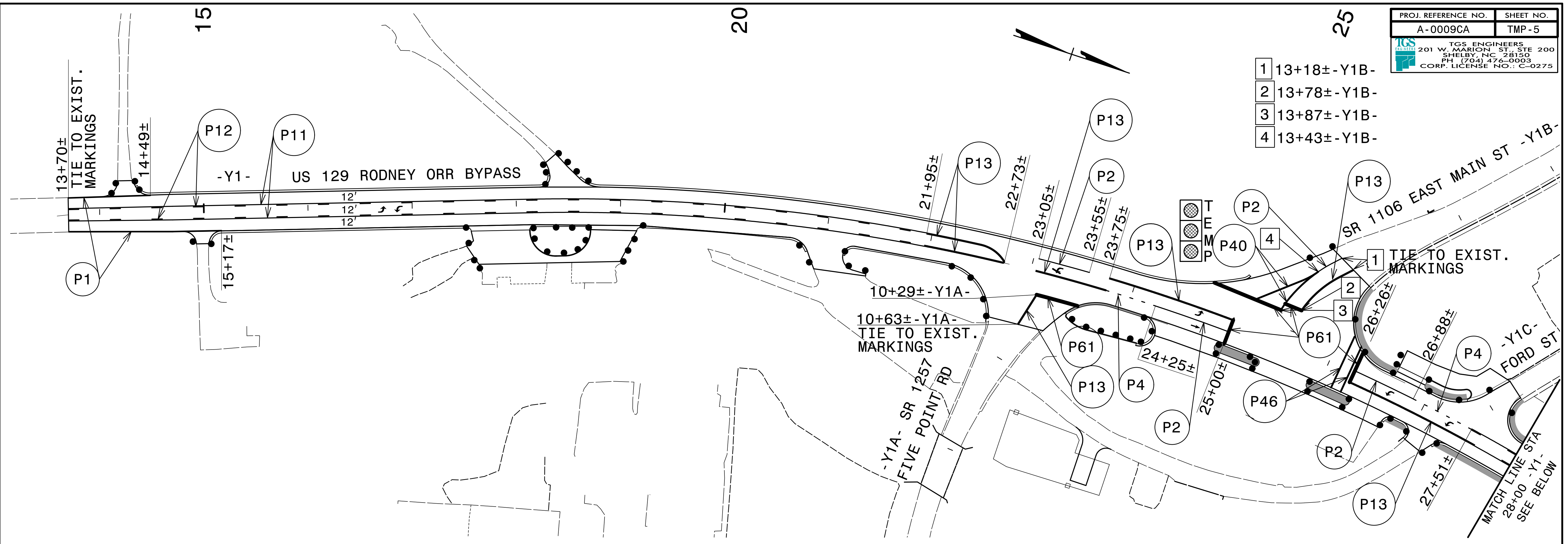


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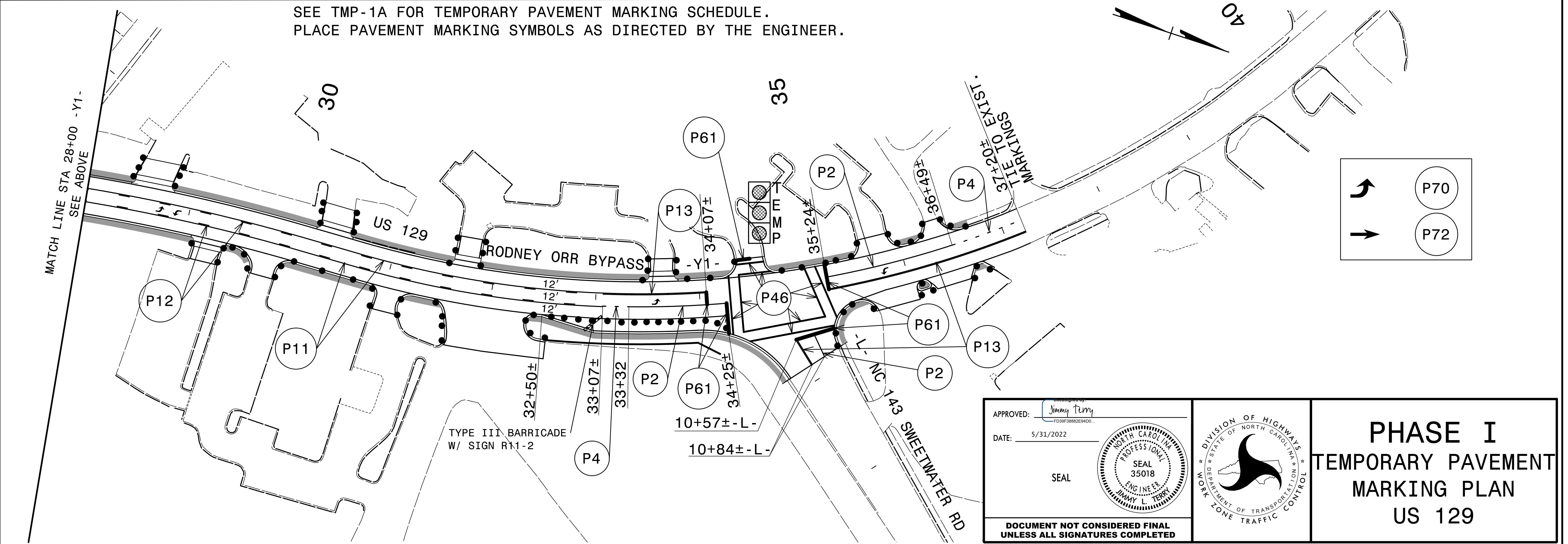


**PHASE I**  
**US 129**





SEE TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE.  
PLACE PAVEMENT MARKING SYMBOLS AS DIRECTED BY THE ENGINEER.

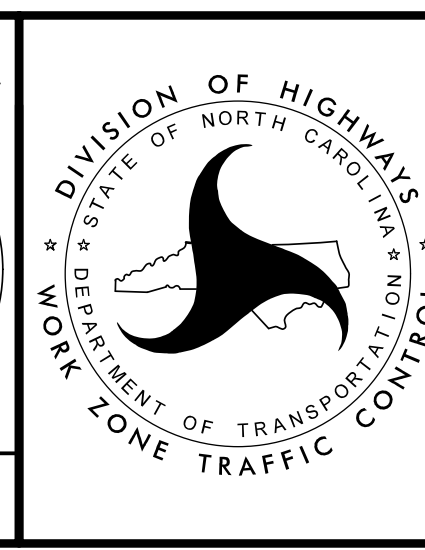


5/26/2022  
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 User:smelvin

APPROVED: Jimmy Terry  
FDSP#3882E9400

DATE: 5/31/2022

SEAL



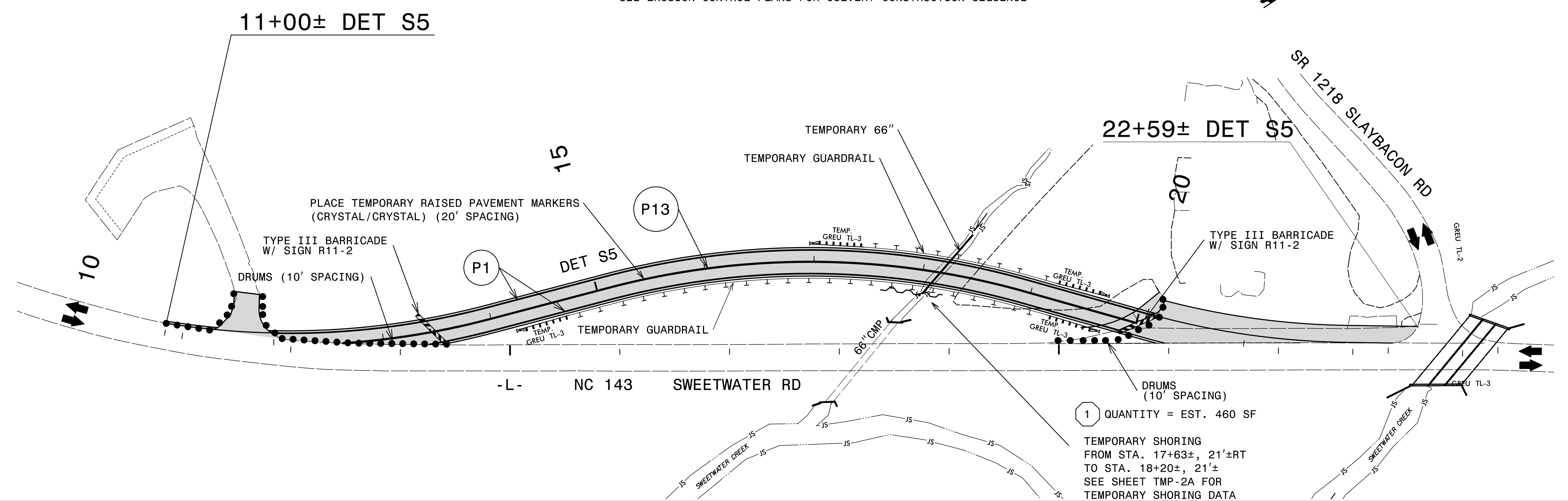
**PHASE I**  
**TEMPORARY PAVEMENT**  
**MARKING PLAN**  
**US 129**

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

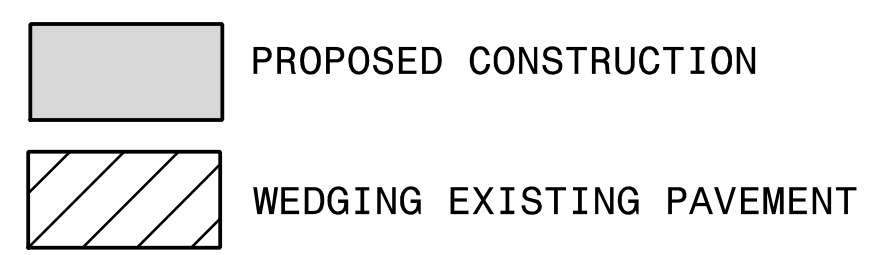
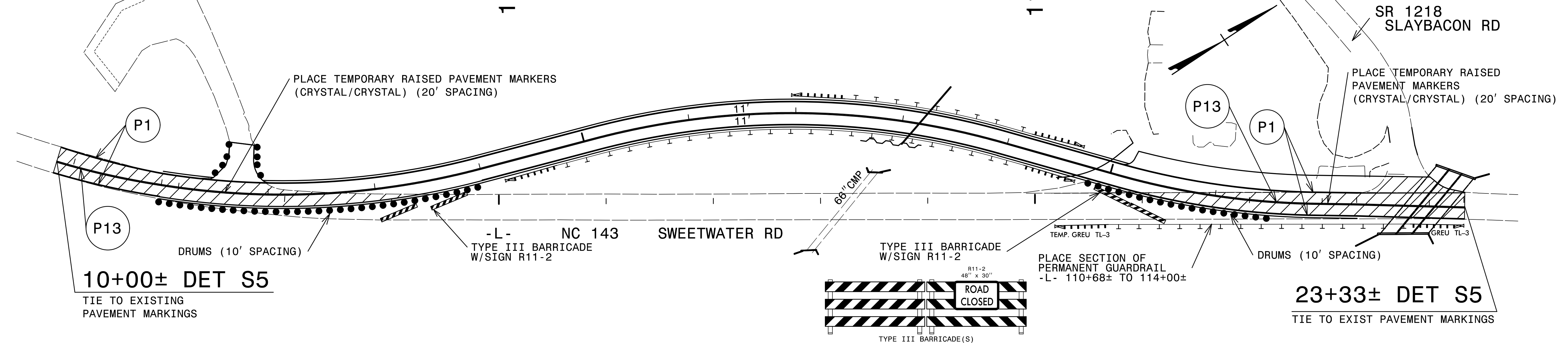


### PHASE 1, STEP 1.A

SEE TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE.  
SEE ROADWAY DETAIL SHT 2B-1 FOR DETOUR LAYOUT AND GRADE.  
SEE EROSION CONTROL PLANS FOR CULVERT CONSTRUCTION SEQUENCE



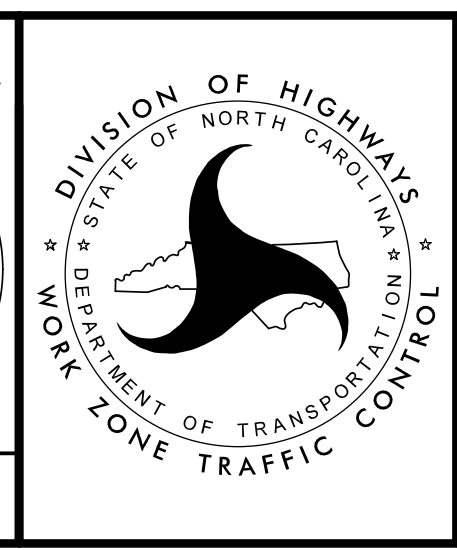
### PHASE 1, STEP 1.B



APPROVED: *Jimmy Terry*  
DATE: 5/31/2022

SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PHASE I  
NC 143

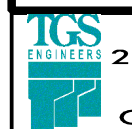
ON-SITE DETOUR DET S5

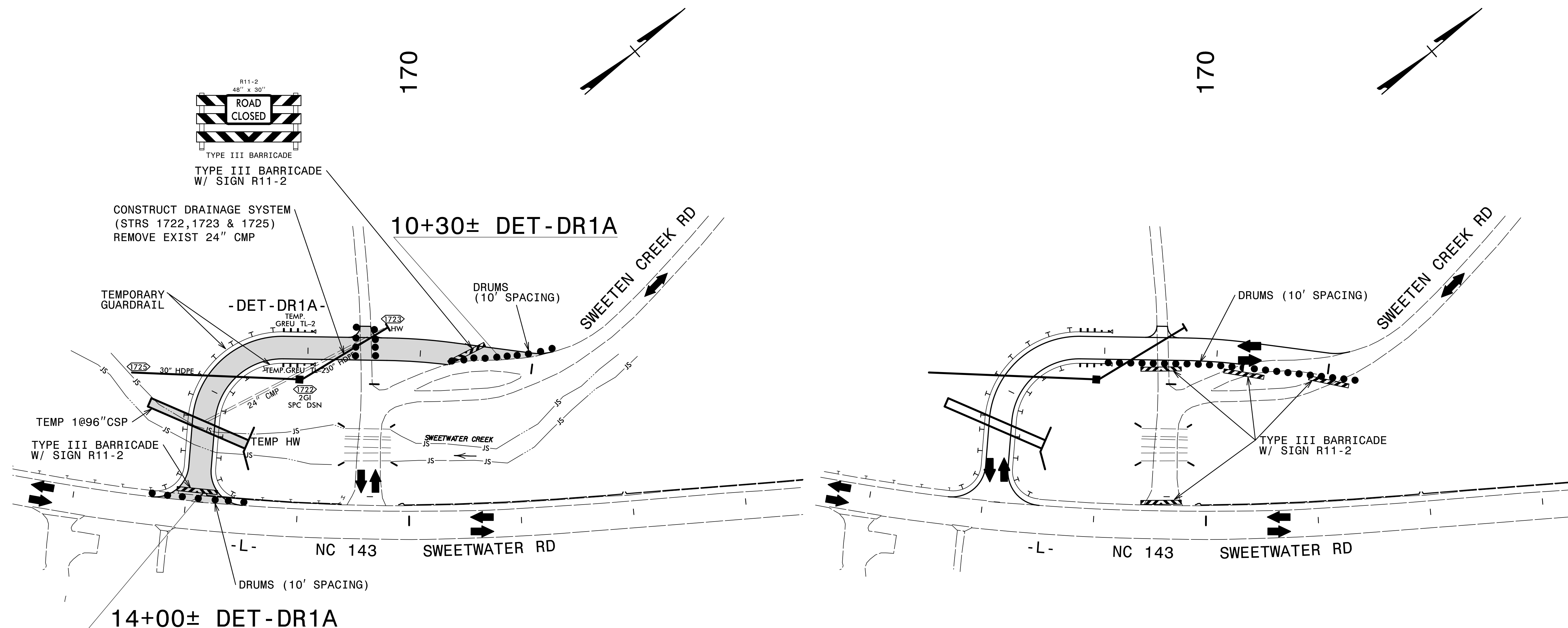
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 User:smelvin


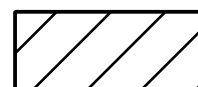
# PHASE 1, STEP 1.A

SEE ROADWAY DETAIL SHT 2B-2 FOR DETOUR LAYOUT.  
SEE EROSION CONTROL PLANS FOR CULVERT CONSTRUCTION SEQUENCE

# PHASE 1, STEP 1.B

PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-7
 TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

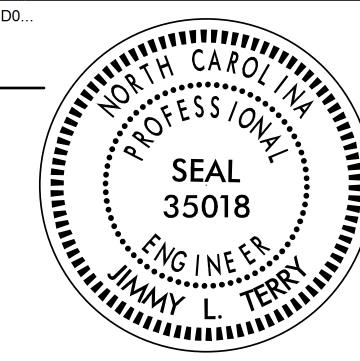


 PROPOSED CONSTRUCTION  
 WEDGING EXISTING PAVEMENT

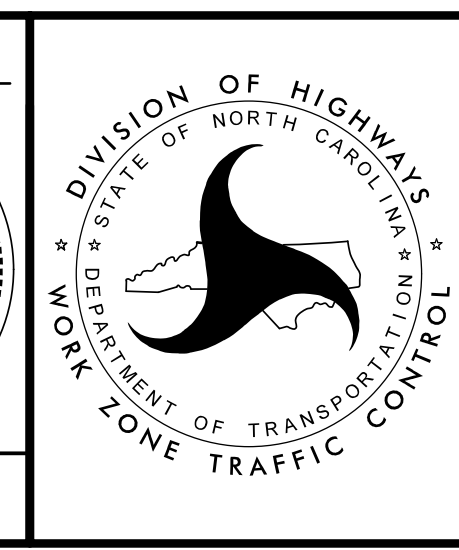
APPROVED: *Jimmy Terry*

DATE: 5/31/2022

SEAL



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



**PHASE I**  
NC 143

ON-SITE DETOUR DET-DR1A

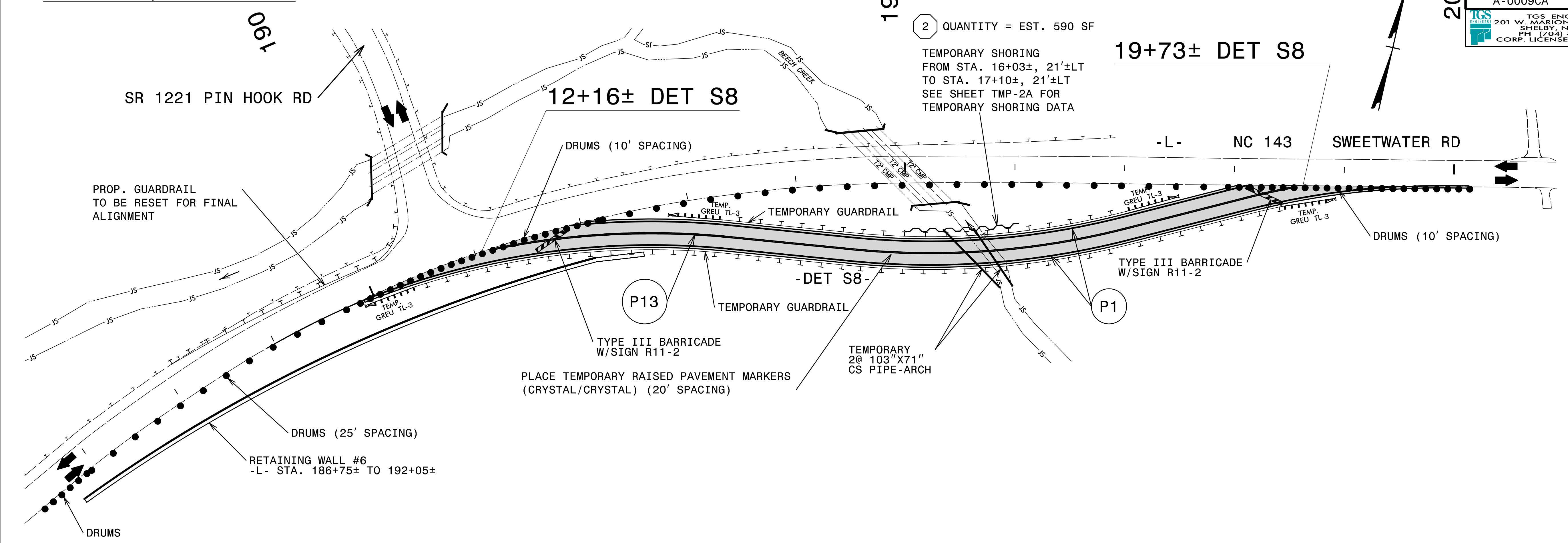
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 User: jsmelvin



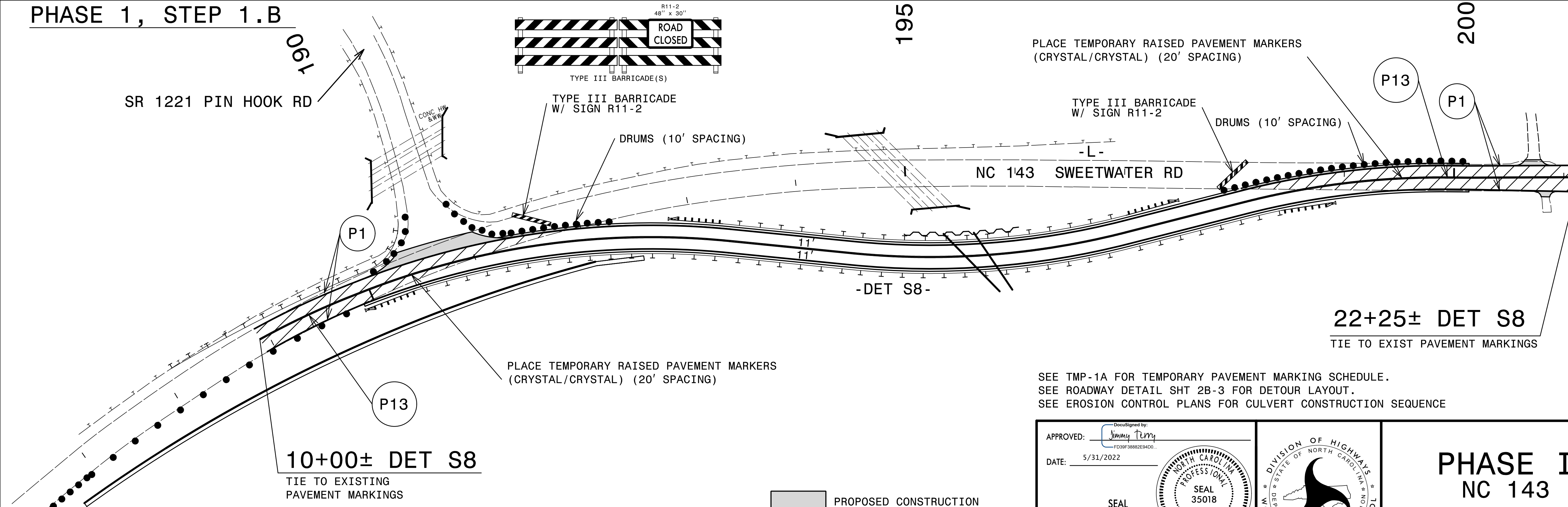
# PHASE 1, STEP 1.A

PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-8

TGS ENGINEERS  
 201 W. MARION ST., STE 200  
 SHELBY, NC 28150  
 PH (704) 476-0003  
 CORP. LICENSE NO.: C-0275



# PHASE 1, STEP 1.B



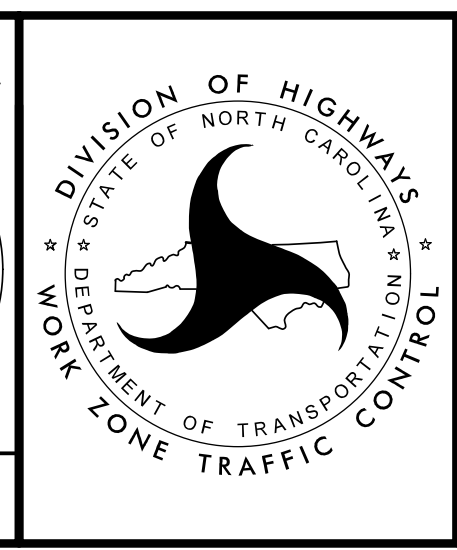
SEE TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE.  
 SEE ROADWAY DETAIL SHT 2B-3 FOR DETOUR LAYOUT.  
 SEE EROSION CONTROL PLANS FOR CULVERT CONSTRUCTION SEQUENCE

- PROPOSED CONSTRUCTION
- WEDGING EXISTING PAVEMENT

APPROVED:   
 DATE: 5/31/2022

SEAL

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




**PHASE I**  
**NC 143**

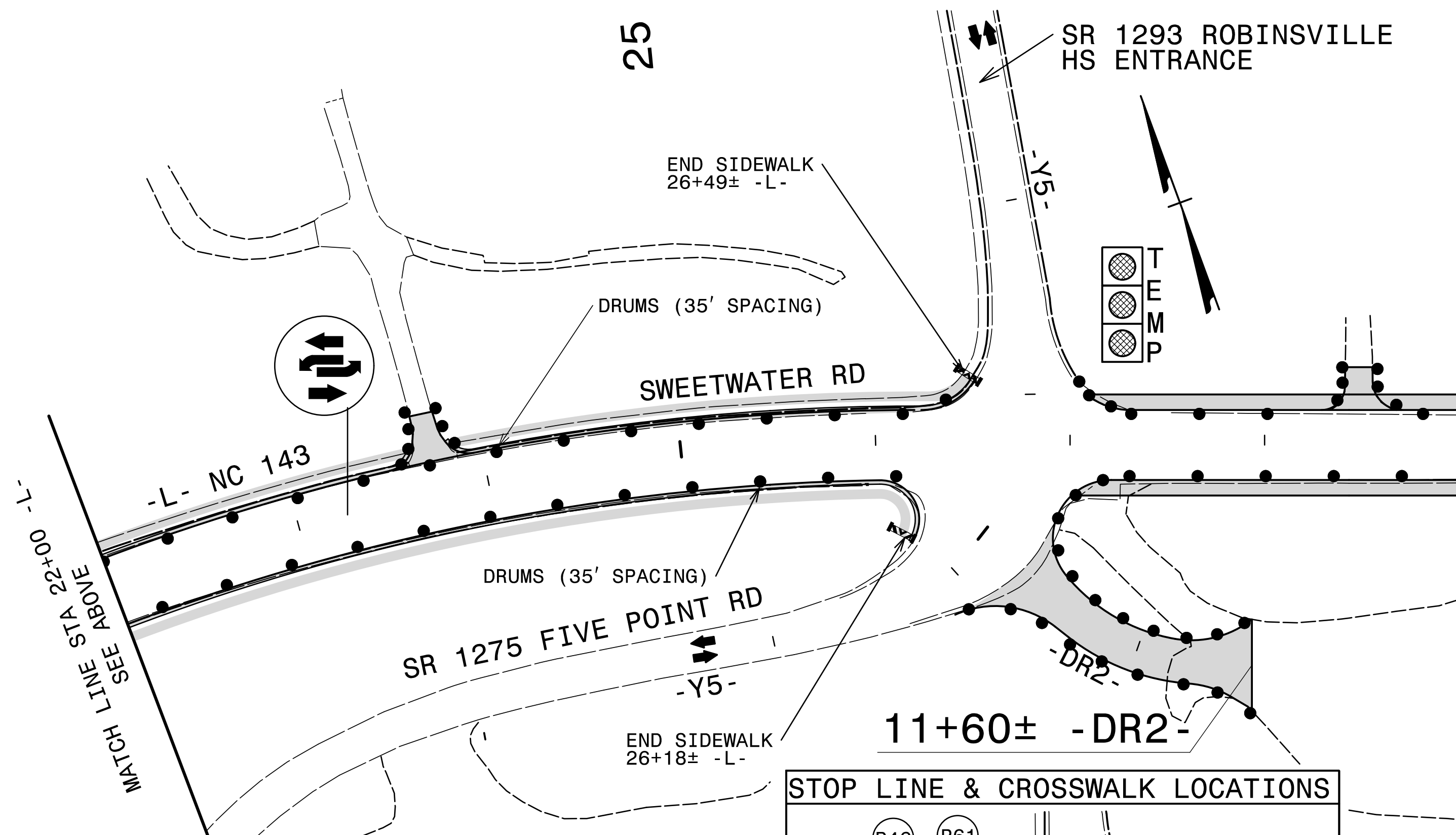
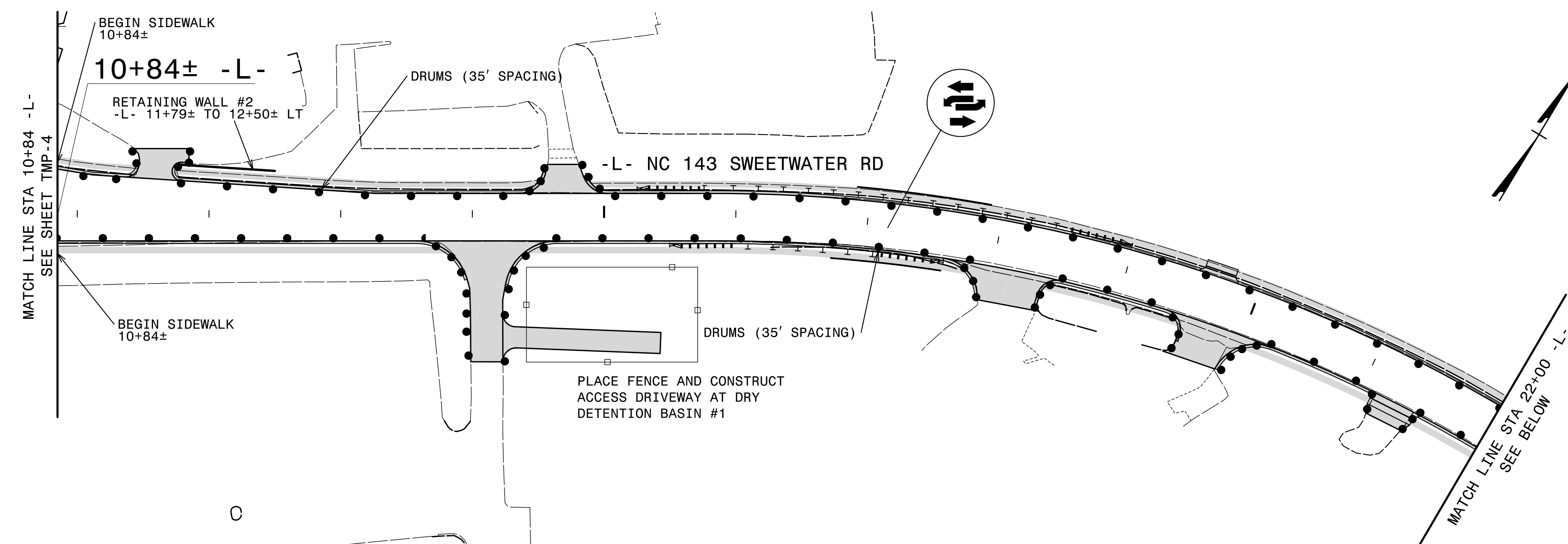
ON-SITE DETOUR DET S8

5/27/2022  
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 User: smelvin

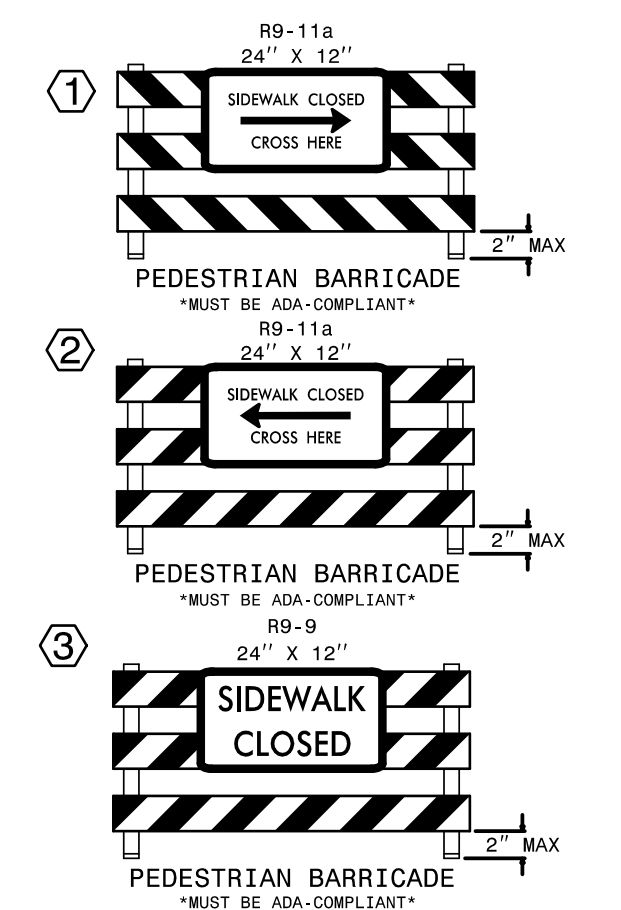
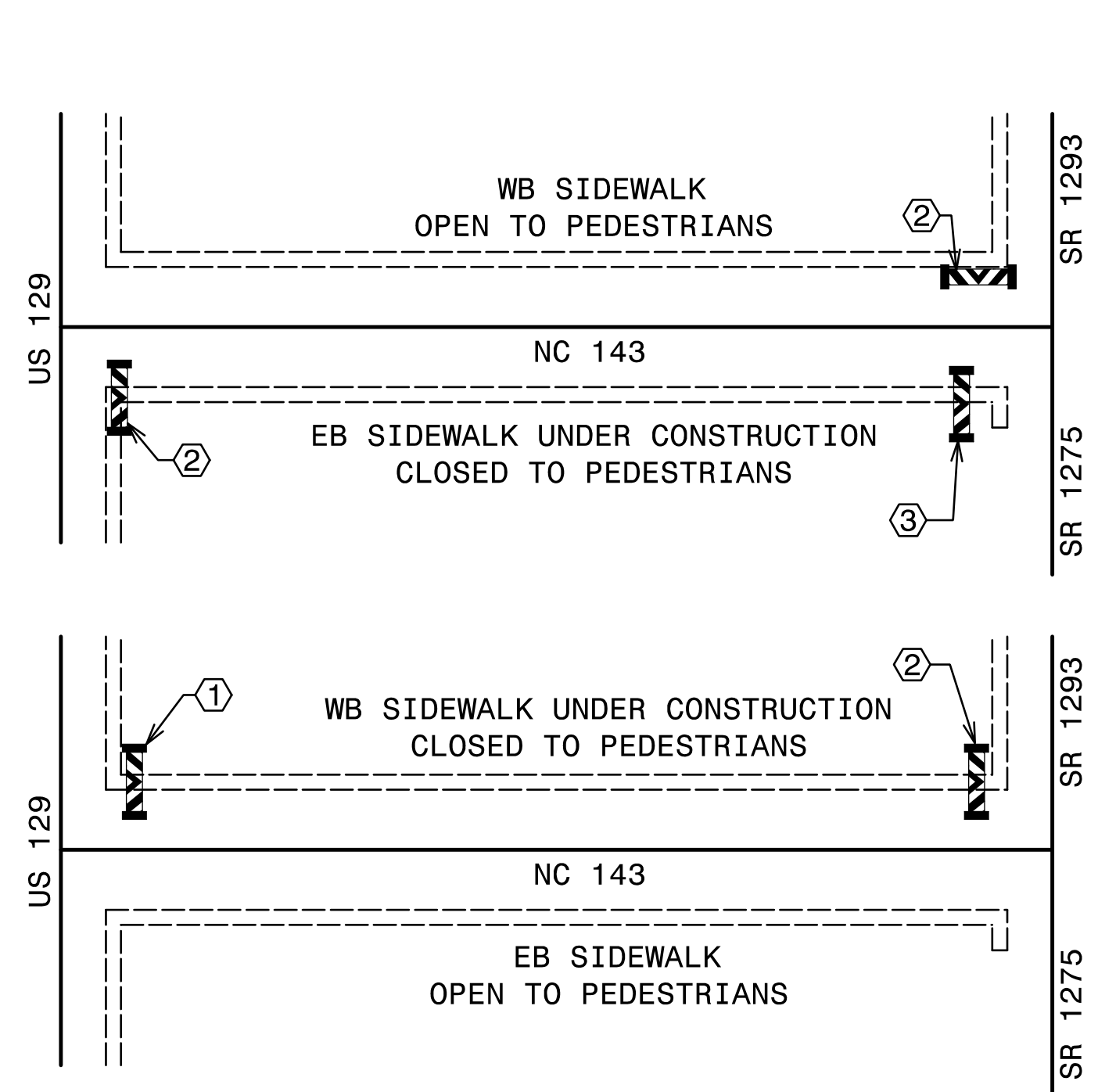


# PHASE 1, STEP 2

PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-9
 TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

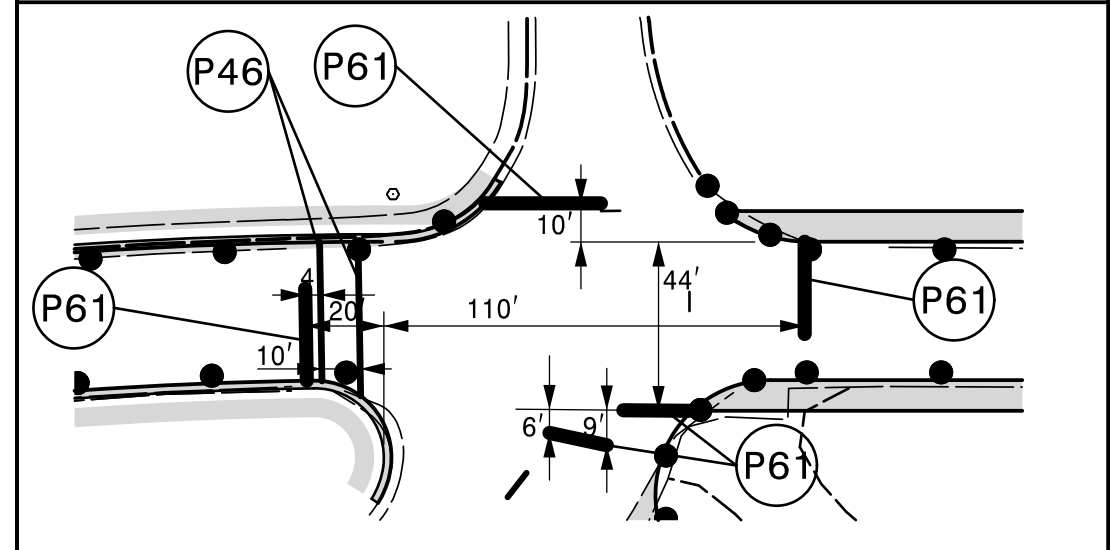


## BARRICADE AND SIGNAGE DURING SIDEWALK CONSTRUCTION





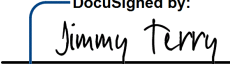
THE CONTRACTOR MAY PLACE ADDITIONAL PEDESTRIAN BARRICADES AS DIRECTED BY THE ENGINEER.

## STOP LINE & CROSSWALK LOCATIONS

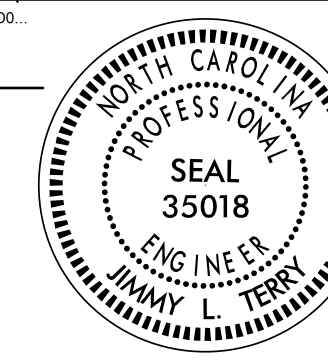
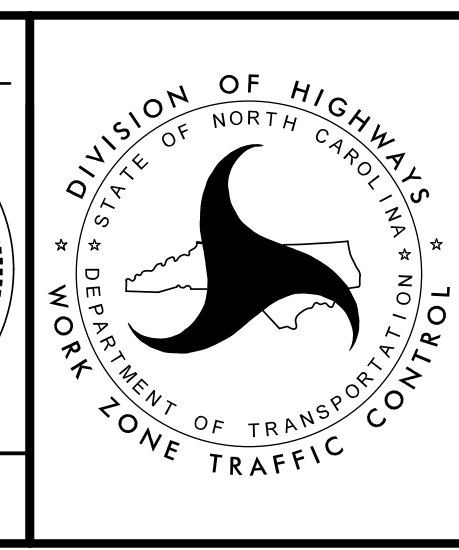


SEE SIGNAL PLANS TO VERIFY STOPBAR LOCATIONS AT TEMPORARY SIGNAL.

-  PEDESTRIAN BARRICADE W/SIGN R9-9
-  PROPOSED CONSTRUCTION & WIDENING EXISTING PAVEMENT
- SEE TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

APPROVED:   
 DATE: 5/31/2022

SEAL

# PHASE I DETAIL NC 143

5/16/2022  
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 User: jsmelvin

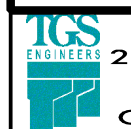


PHASE 1, STEP 2

30

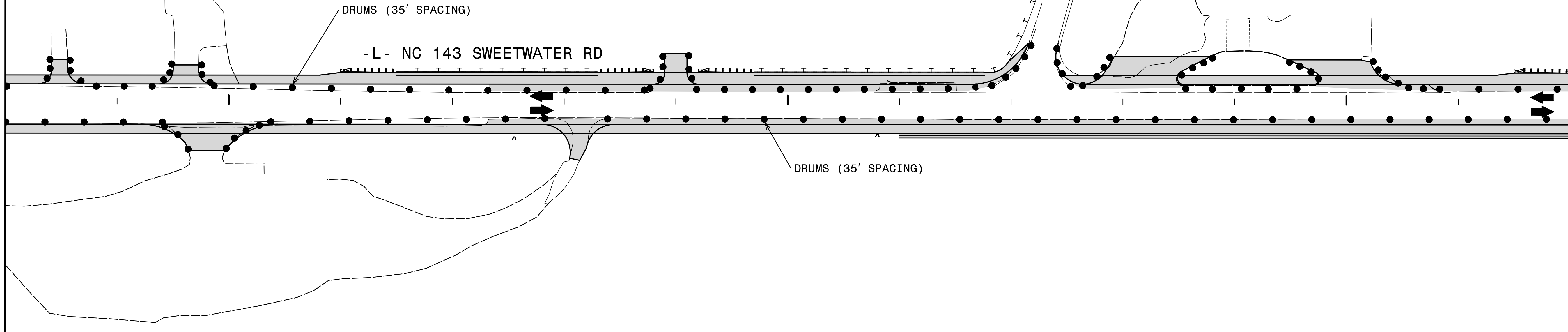
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PROJ. REFERENCE NO. A-0009CA	SHEET NO. TMP-10
 TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

SR 1214  
MOUNTAIN CREEK RD

MATCH LINE STA 29+00 -L-  
SEE SHEET TMP-9



MATCH LINE STA 42+00 -L-  
SEE BELOW

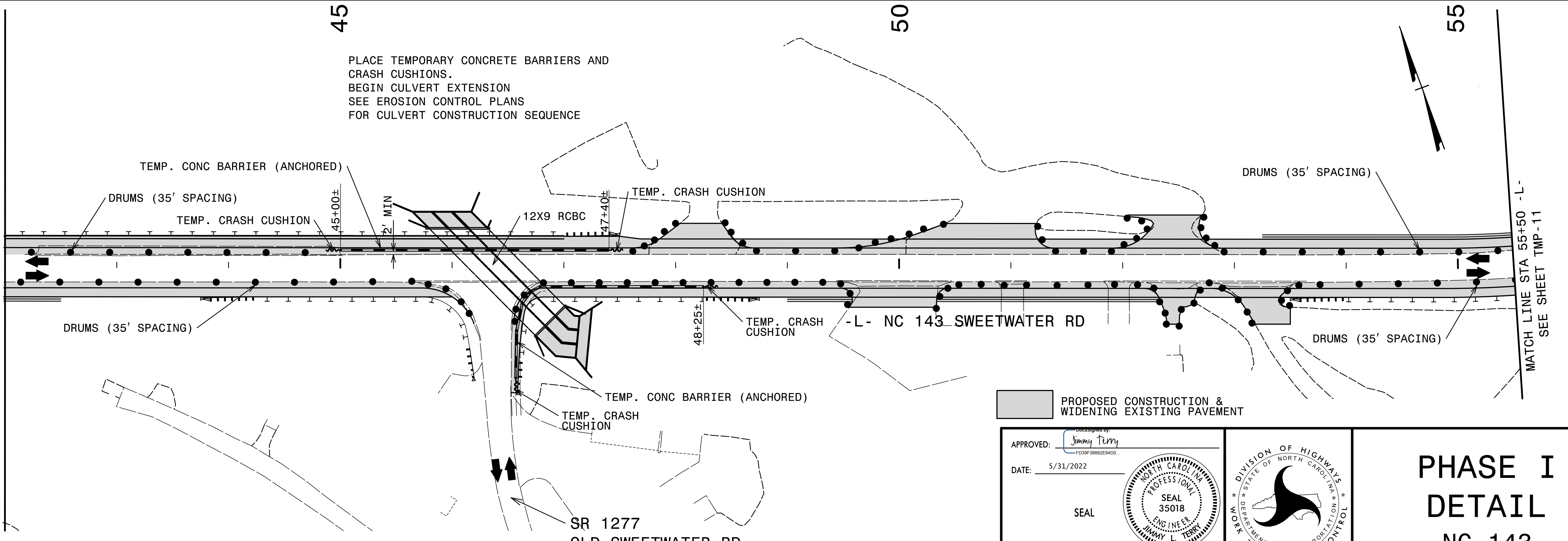
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PLACE TEMPORARY CONCRETE BARRIERS AND  
 CRASH CUSHIONS.  
 BEGIN CULVERT EXTENSION  
 SEE EROSION CONTROL PLANS  
 FOR CULVERT CONSTRUCTION SEQUENCE

MATCH LINE STA 42+00 -L-  
SEE ABOVE

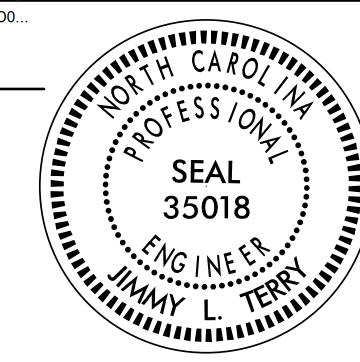
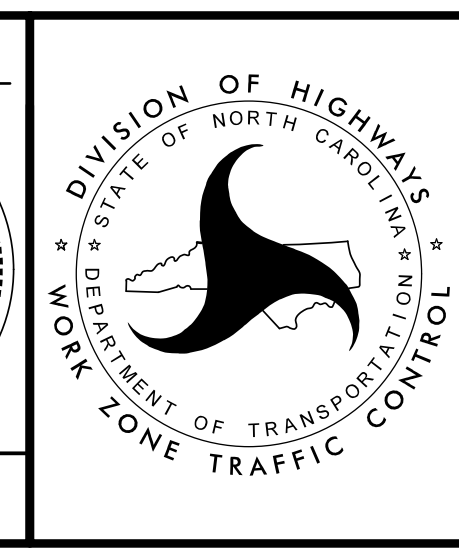


MATCH LINE STA 55+00 -L-  
SEE SHEET TMP-11

 PROPOSED CONSTRUCTION &  
 WIDENING EXISTING PAVEMENT

APPROVED: *Jimmy Terry*  
 DATE: 5/31/2022

SEAL

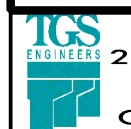
**PHASE I  
 DETAIL  
 NC 143**

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

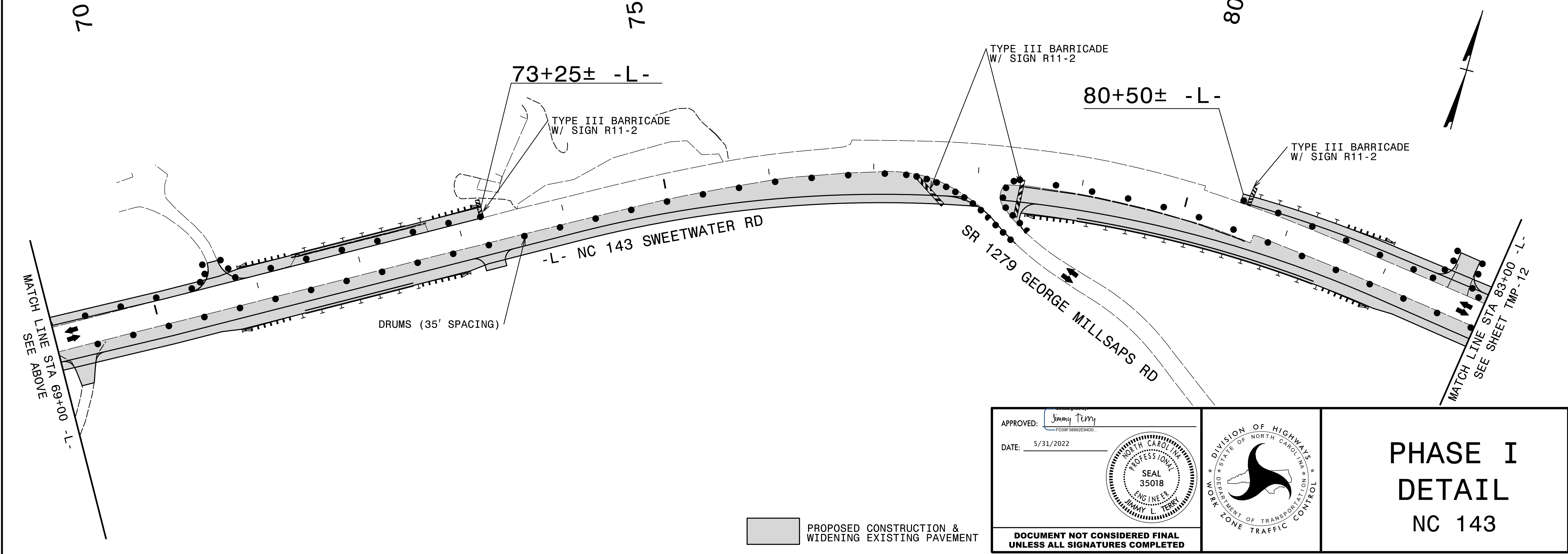
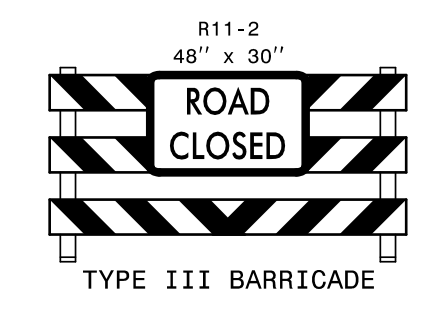
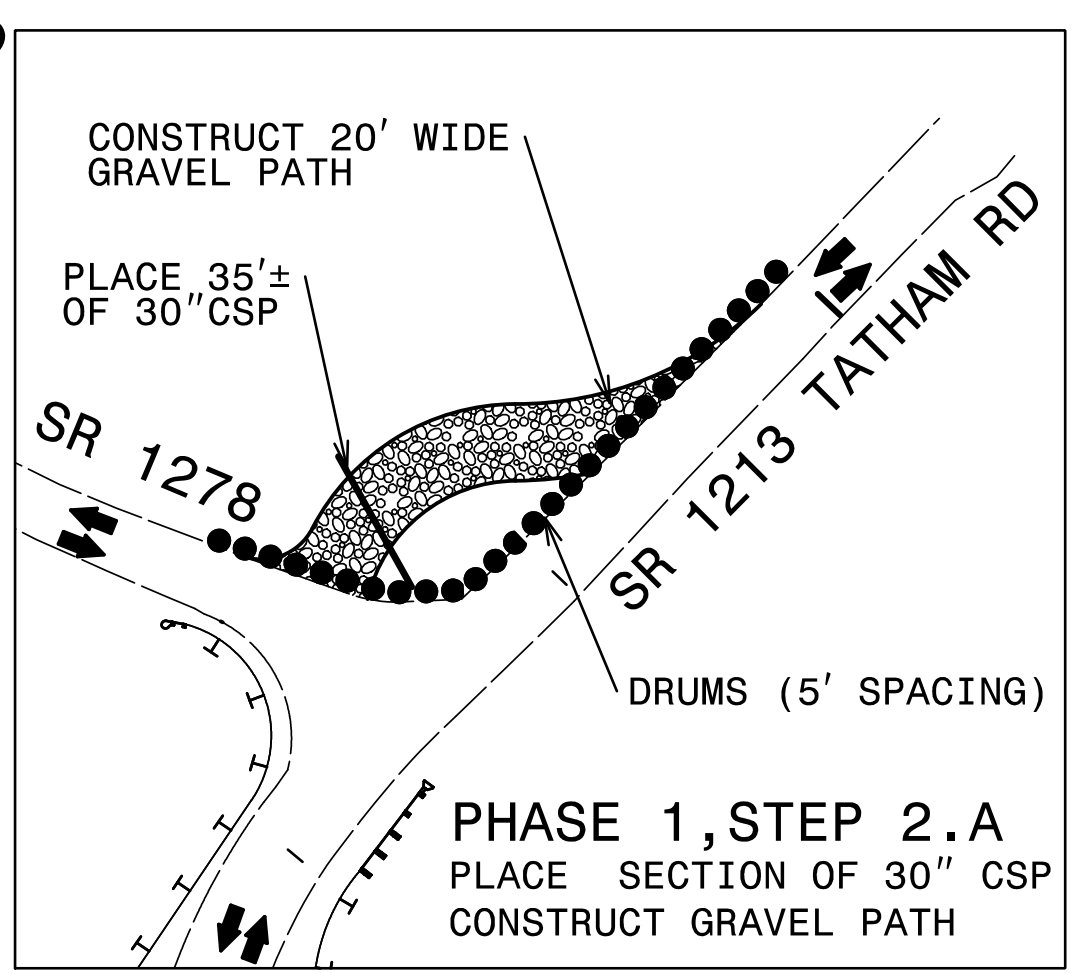
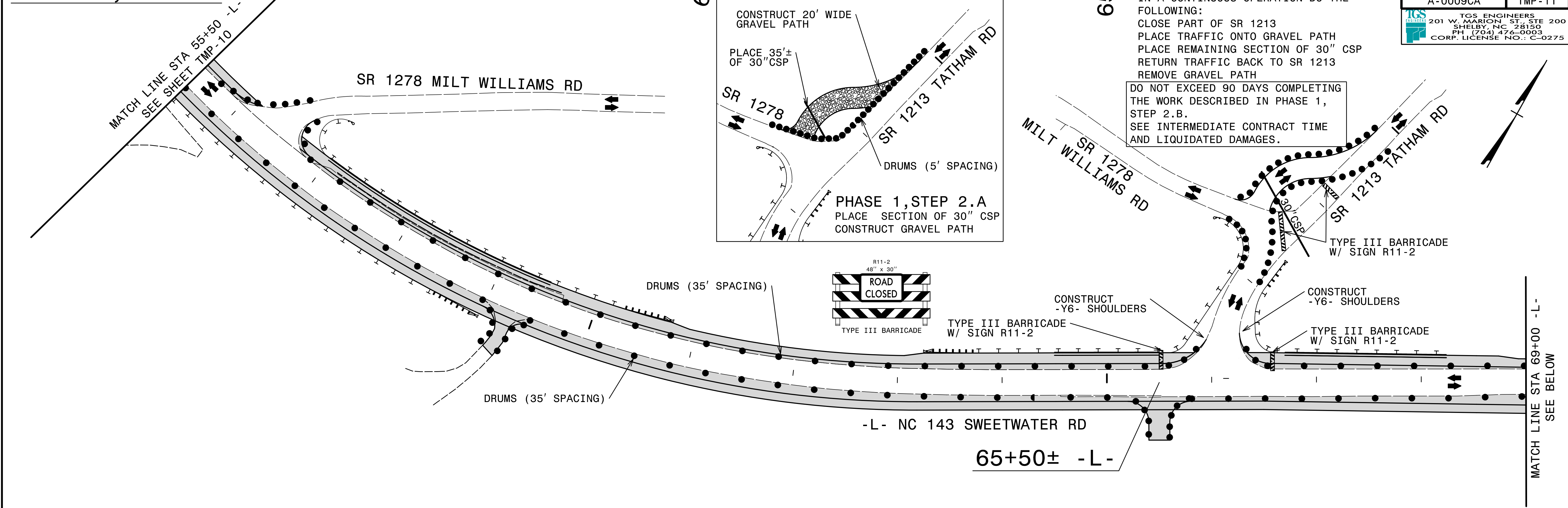
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 User: jsmelvin



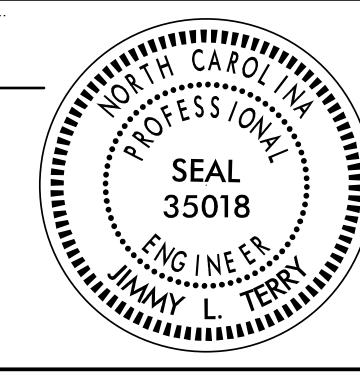
# PHASE 1, STEP 2

PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-11
 TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 478-0003 CORP. LICENSE NO.: C-0275	

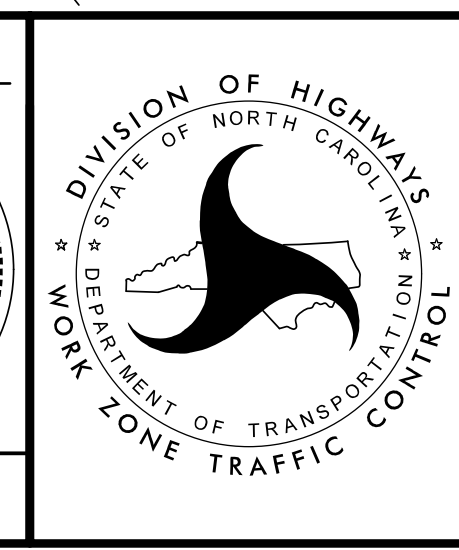
**PHASE 1, STEP 2.B**  
 IN A CONTINUOUS OPERATION DO THE FOLLOWING:  
 CLOSE PART OF SR 1213  
 PLACE TRAFFIC ONTO GRAVEL PATH  
 PLACE REMAINING SECTION OF 30" CSP  
 RETURN TRAFFIC BACK TO SR 1213  
 REMOVE GRAVEL PATH  
 DO NOT EXCEED 90 DAYS COMPLETING THE WORK DESCRIBED IN PHASE 1, STEP 2.B.  
 SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.



APPROVED: *Jimmy Perry*  
 DATE: 5/31/2022




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



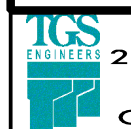
## PHASE I DETAIL NC 143

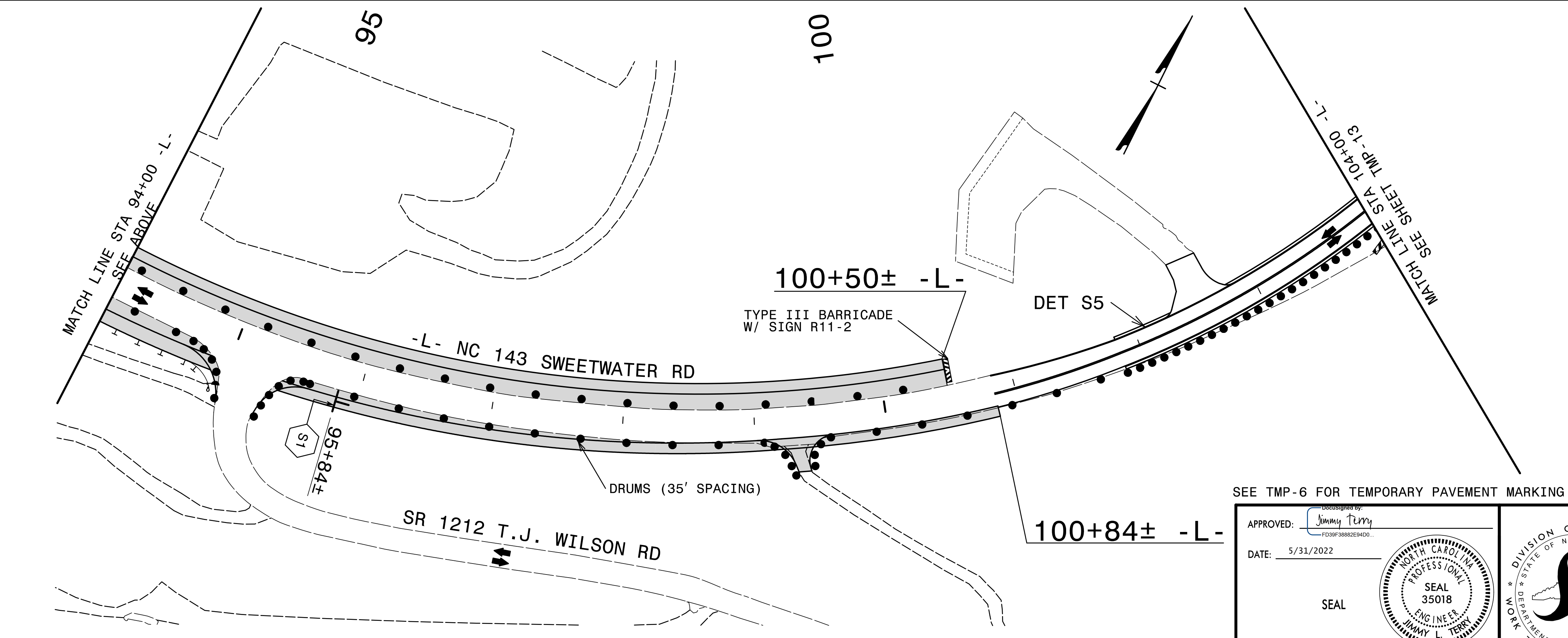
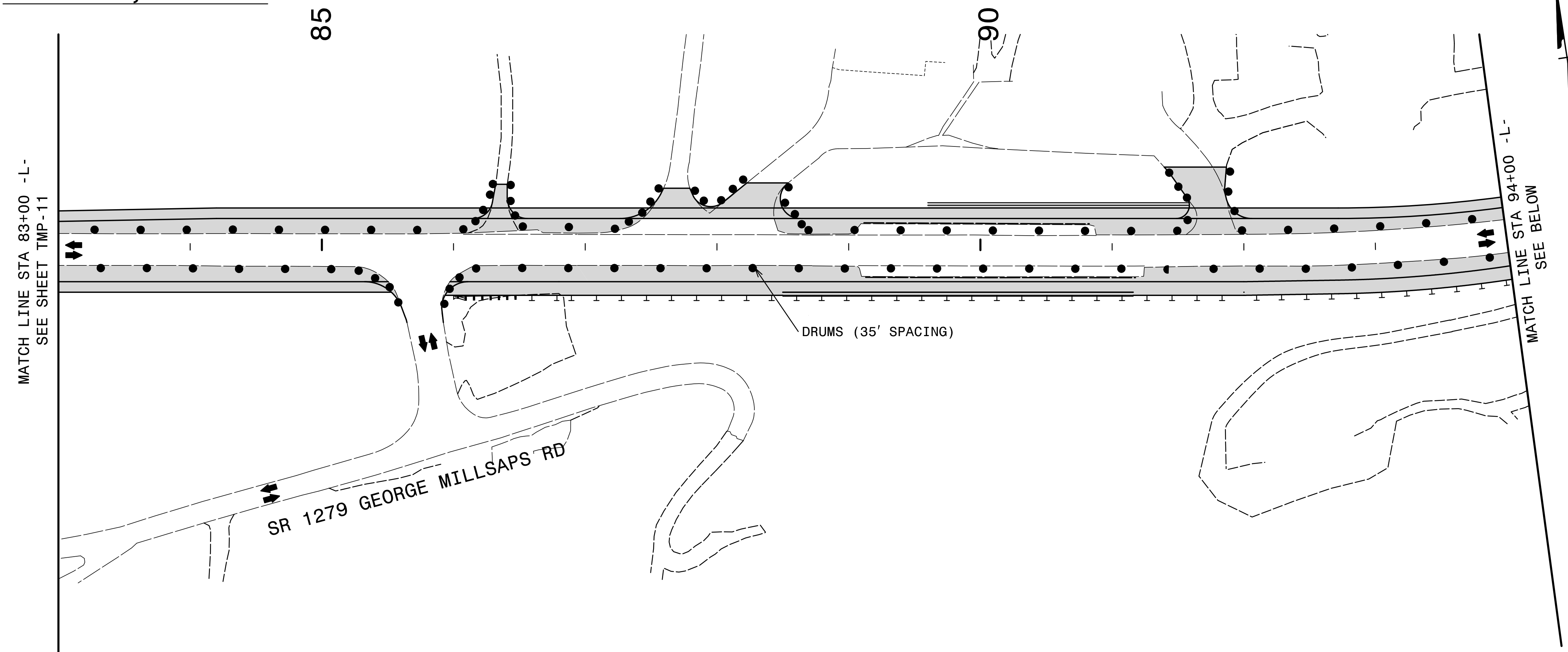
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 PROPOSED CONSTRUCTION & WIDENING EXISTING PAVEMENT



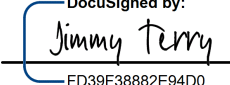
# PHASE 1, STEP 2

PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-12
 <b>TGS ENGINEERS</b> 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

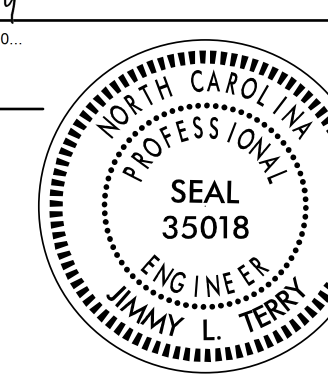


 PROPOSED CONSTRUCTION & WIDENING EXISTING PAVEMENT

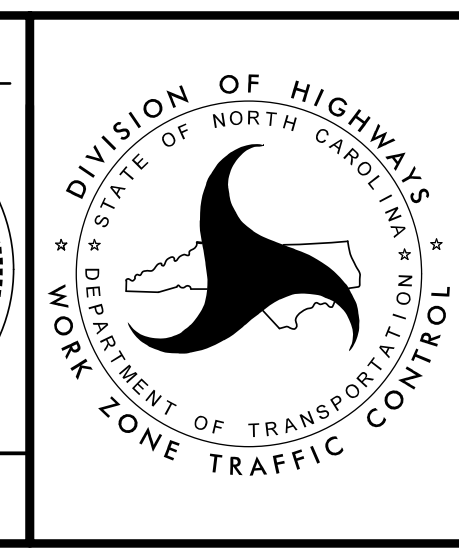
SEE TMP-6 FOR TEMPORARY PAVEMENT MARKING LAYOUT.

APPROVED:   
 DATE: 5/31/2022

SEAL



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




## PHASE I DETAIL NC 143

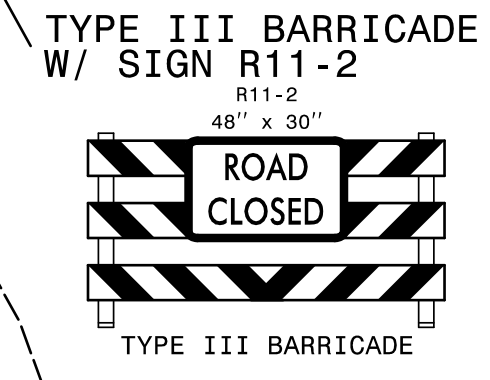
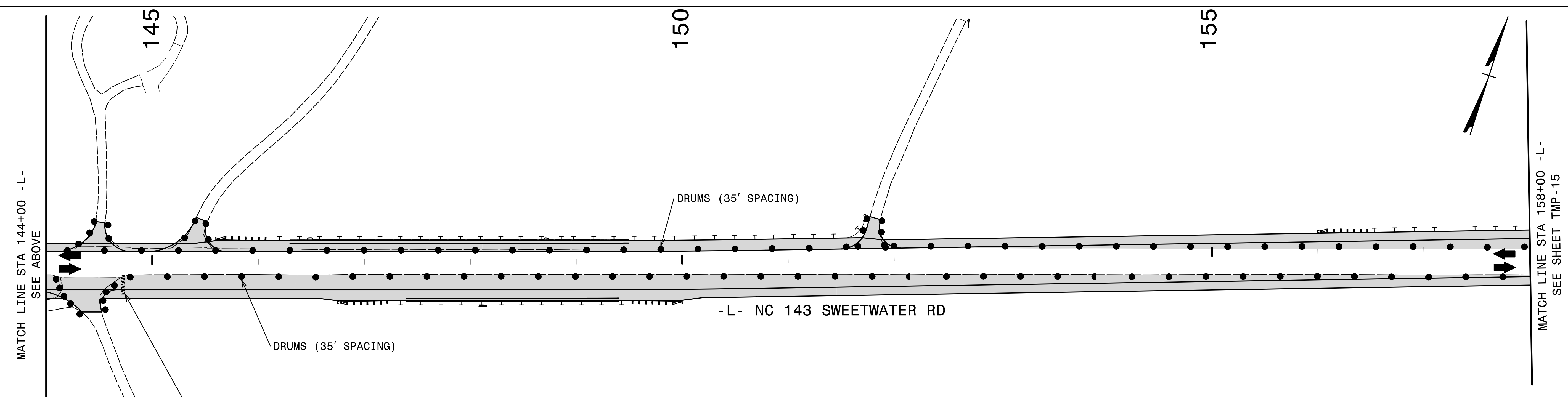
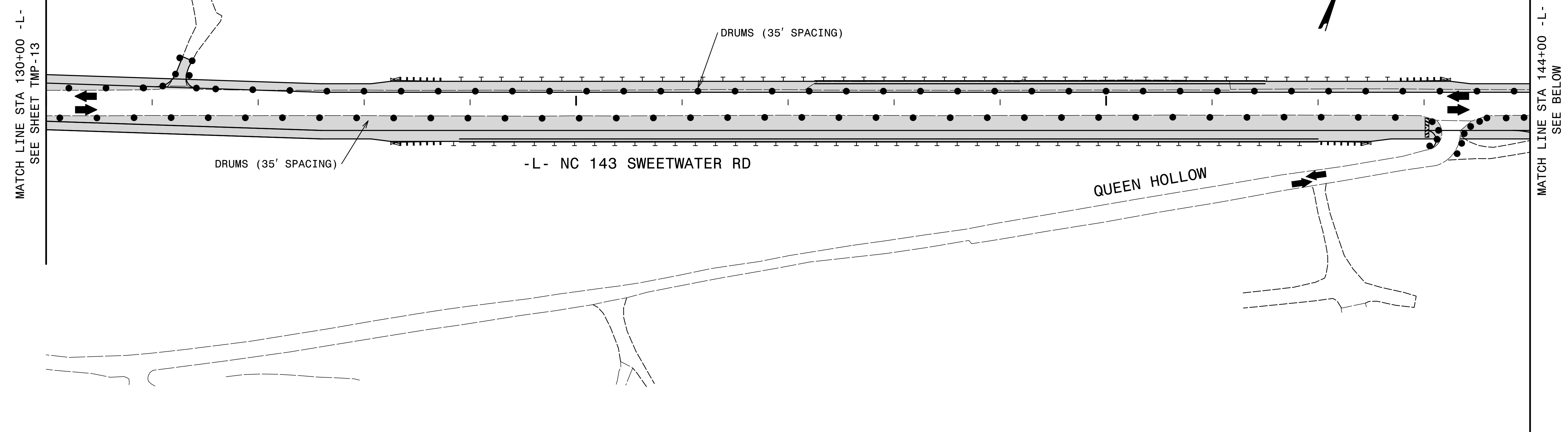
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 User: jsmelvin





# PHASE 1, STEP 2

PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-14
 <b>TGS ENGINEERS</b> 201 W. MARION ST. SUITE 200 SHELBY, NC 28150 PH (704) 474-0003 CORP. LICENSE NO.: C-0275	

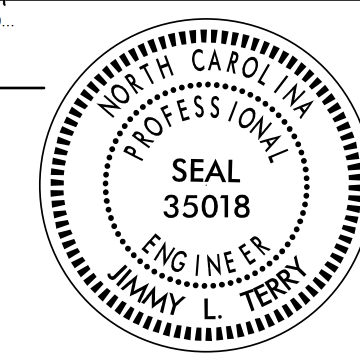
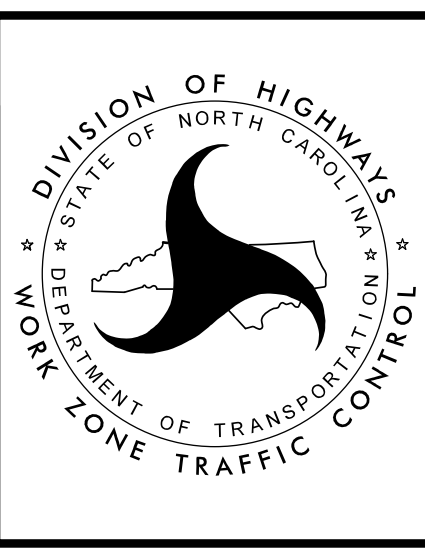


 PROPOSED CONSTRUCTION & WIDENING EXISTING PAVEMENT

APPROVED: *Jimmy Terry*  
FD39F3882E84D0

DATE: 5/31/2022

SEAL

**PHASE I  
 DETAIL  
 NC 143**

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

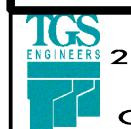
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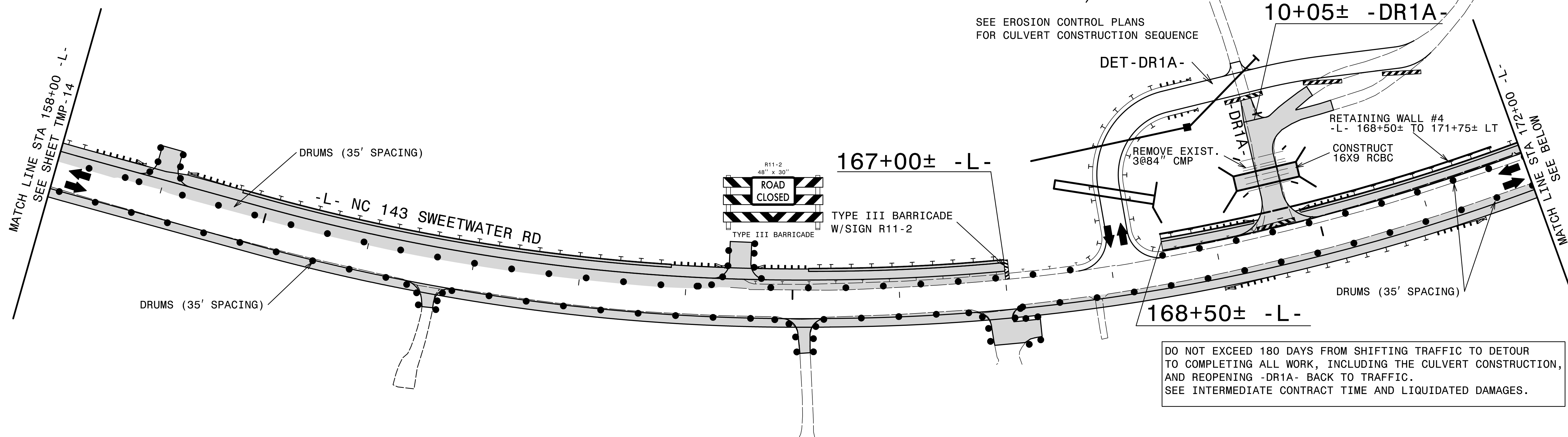
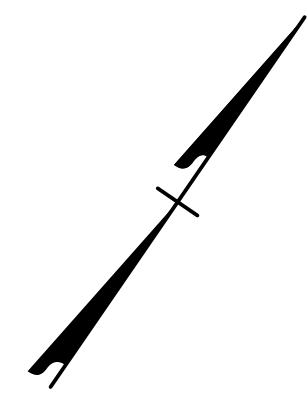
# PHASE 1, STEP 2

160

165

170

PROJ. REFERENCE NO. A-0009CA	SHEET NO. TMP-15
 <b>TGS ENGINEERS</b> 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

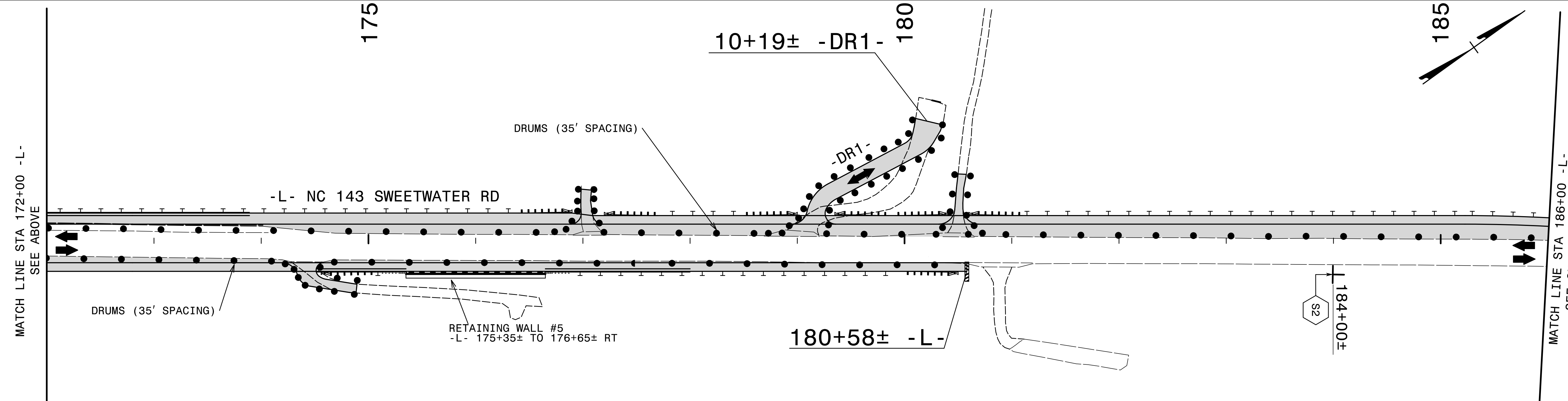


DO NOT EXCEED 180 DAYS FROM SHIFTING TRAFFIC TO DETOUR TO COMPLETING ALL WORK, INCLUDING THE CULVERT CONSTRUCTION, AND REOPENING -DR1A- BACK TO TRAFFIC. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

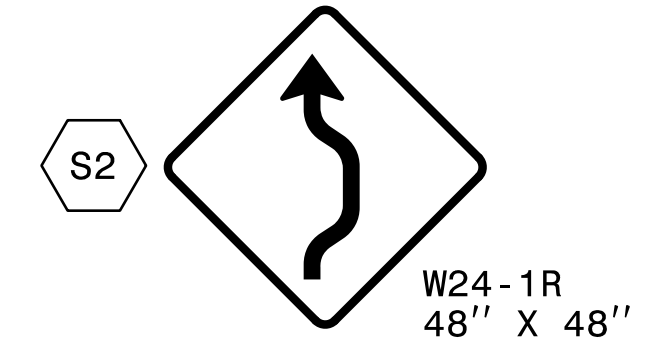
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10+19± -DR1- 180

185

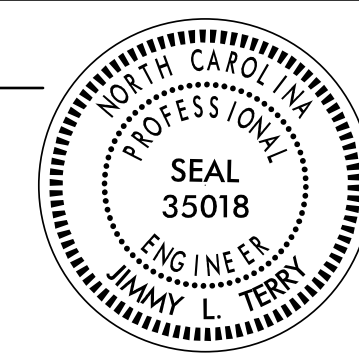


 PROPOSED CONSTRUCTION & WIDENING EXISTING PAVEMENT

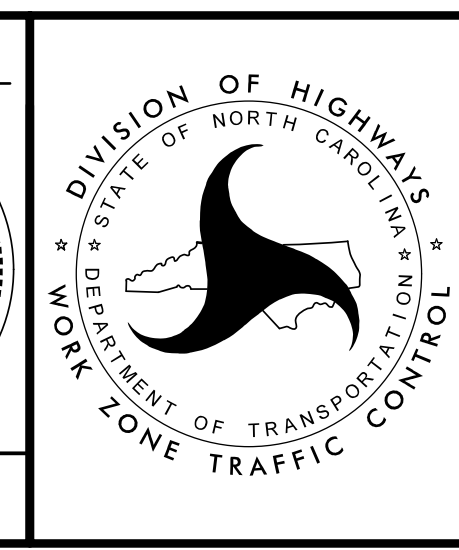


APPROVED: *Jimmy Terry*  
DATE: 5/31/2022

SEAL



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

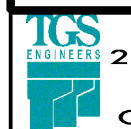


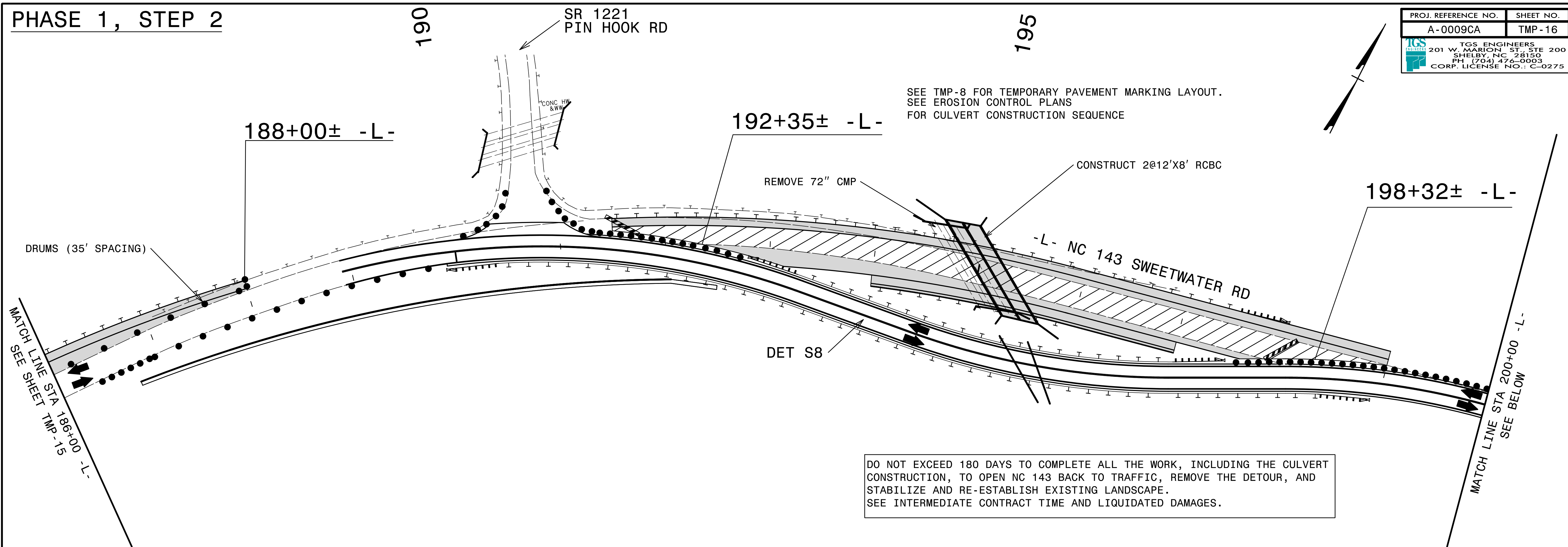
## PHASE I DETAIL NC 143

5/16/2022  
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 User: jsmelvin

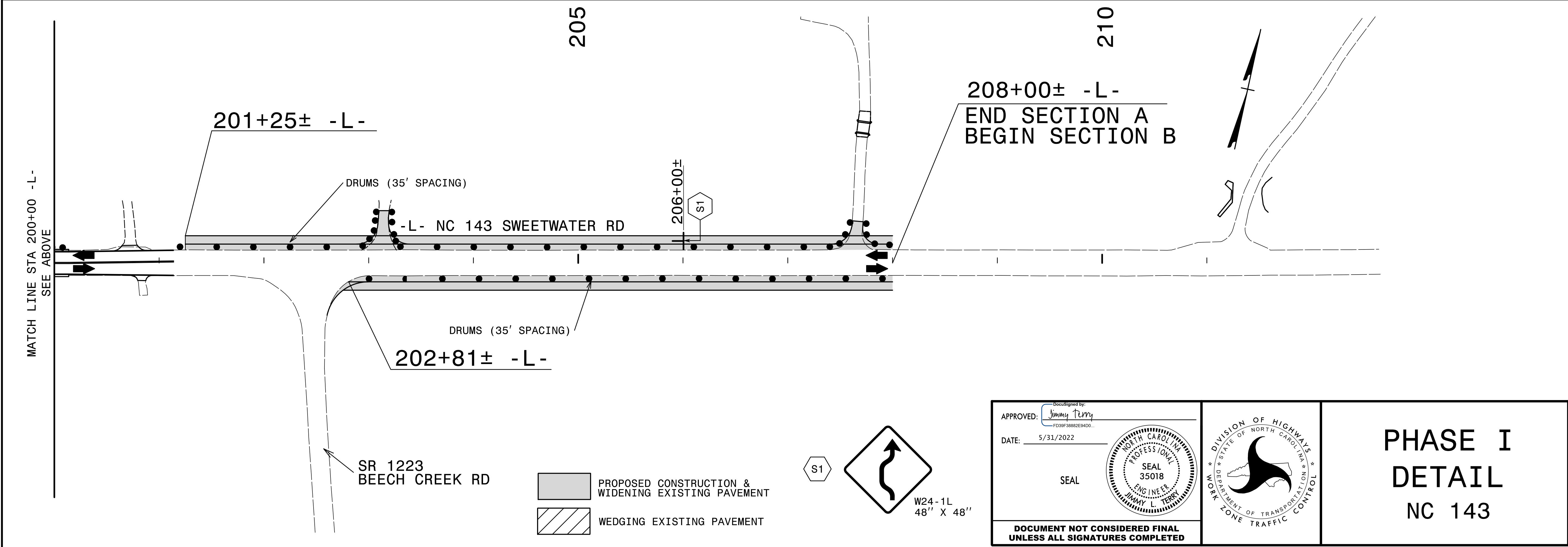


# PHASE 1, STEP 2

PROJ. REFERENCE NO. A-0009CA	SHEET NO. TMP-16
 <b>TGS ENGINEERS</b> 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	



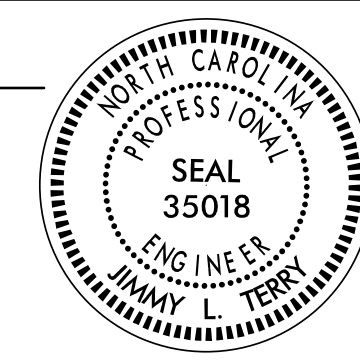
DO NOT EXCEED 180 DAYS TO COMPLETE ALL THE WORK, INCLUDING THE CULVERT CONSTRUCTION, TO OPEN NC 143 BACK TO TRAFFIC, REMOVE THE DETOUR, AND STABILIZE AND RE-ESTABLISH EXISTING LANDSCAPE. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.



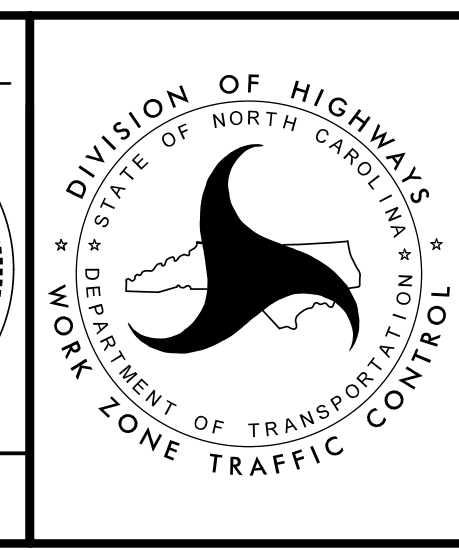
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 User: jsmelvin

APPROVED: *Jimmy Terry*  
 DATE: 5/31/2022

SEAL

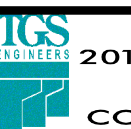


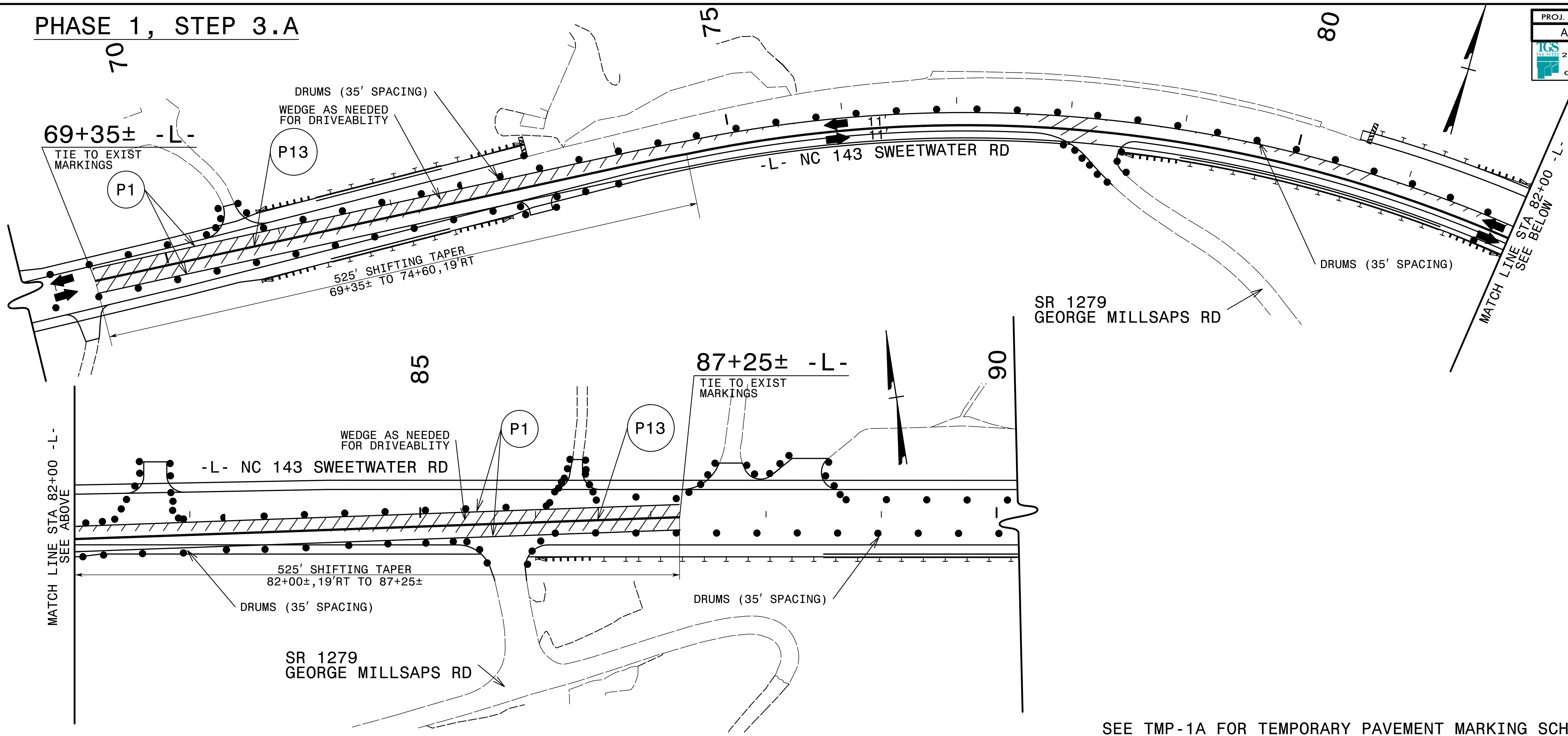
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UNLESS ALL SIGNATURES COMPLETED**



## PHASE I DETAIL NC 143

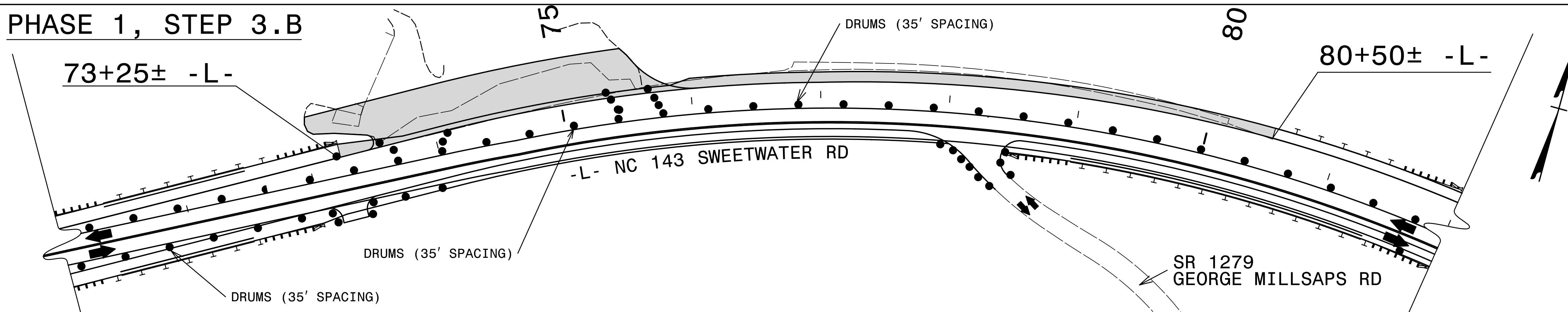
# PHASE 1, STEP 3.A



PROJ. REFERENCE NO. A-0009CA	SHEET NO. TMP-17
 <b>TGS ENGINEERS</b> 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

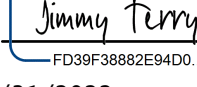


SEE TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE.

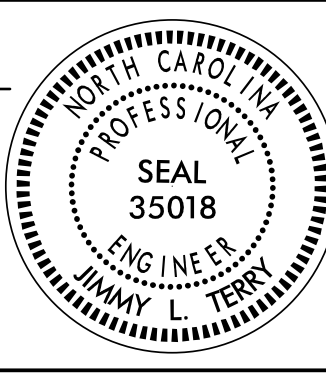
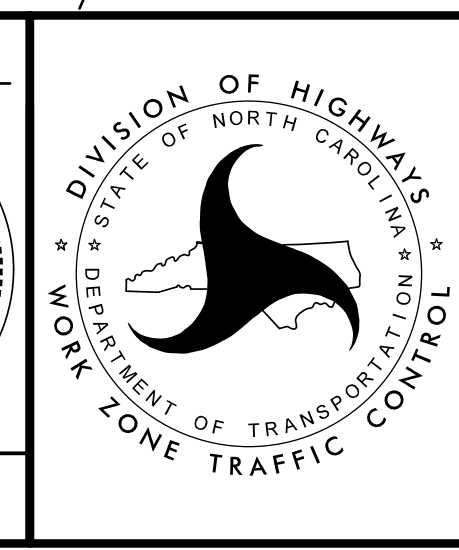
# PHASE 1, STEP 3.B



-  PROPOSED CONSTRUCTION & WIDENING EXISTING PAVEMENT
-  WEDGING EXISTING PAVEMENT

APPROVED:   
 DATE: 5/31/2022

SEAL

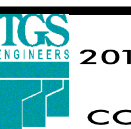
**PHASE I  
DETAIL  
NC 143**

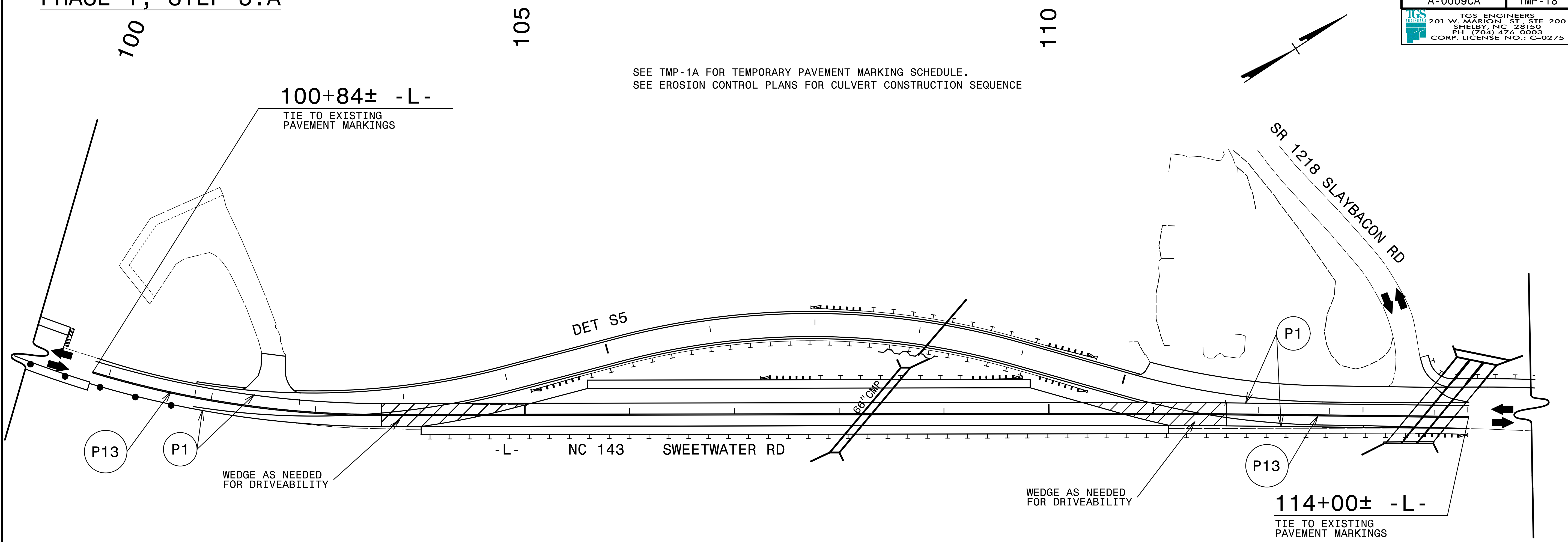
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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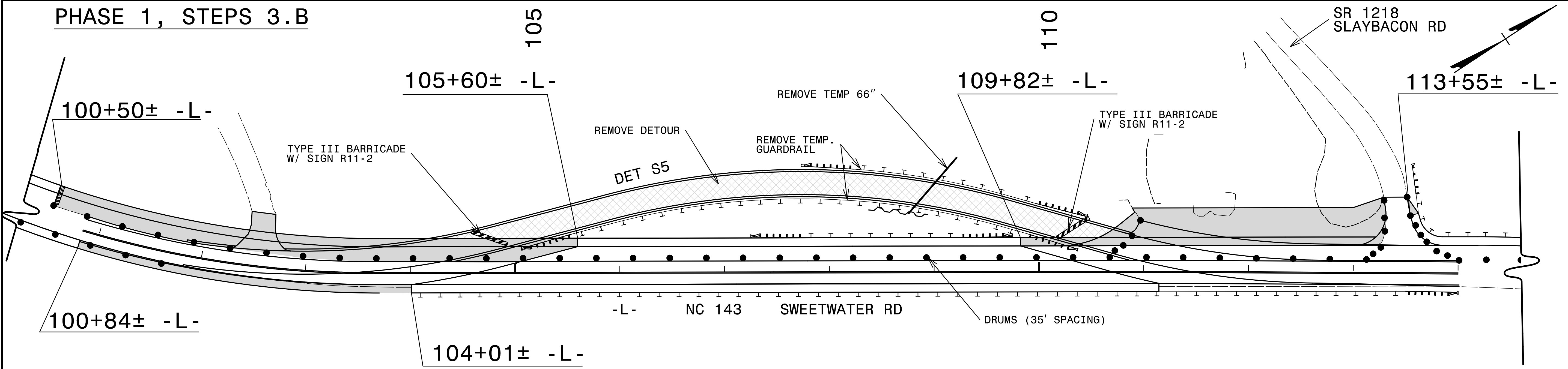



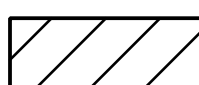

# PHASE 1, STEP 3.A

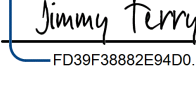
PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-18
 <b>TGS ENGINEERS</b> 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	



# PHASE 1, STEPS 3.B

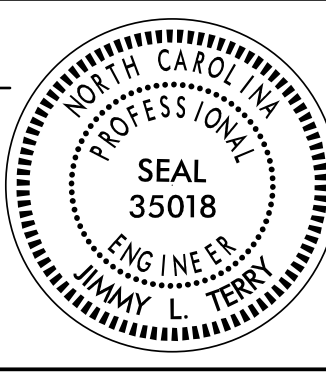


-  PROPOSED CONSTRUCTION & WIDENING EXISTING PAVEMENT
-  WEDGING EXISTING PAVEMENT
-  REMOVE EXISTING PAVEMENT

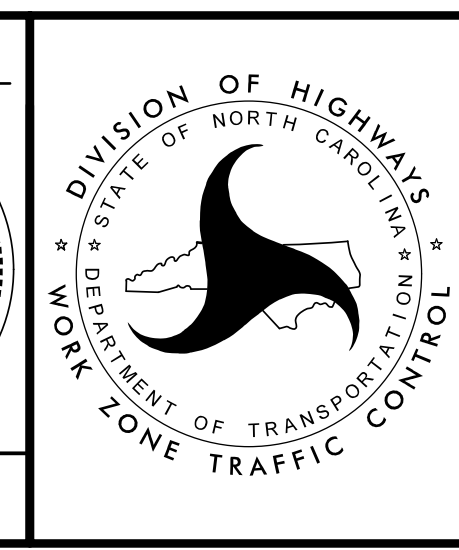
APPROVED:   
FO39F3882E94DD

DATE: 5/31/2022

SEAL



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UNLESS ALL SIGNATURES COMPLETED**

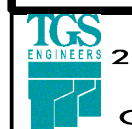


## PHASE I DETAIL NC 143

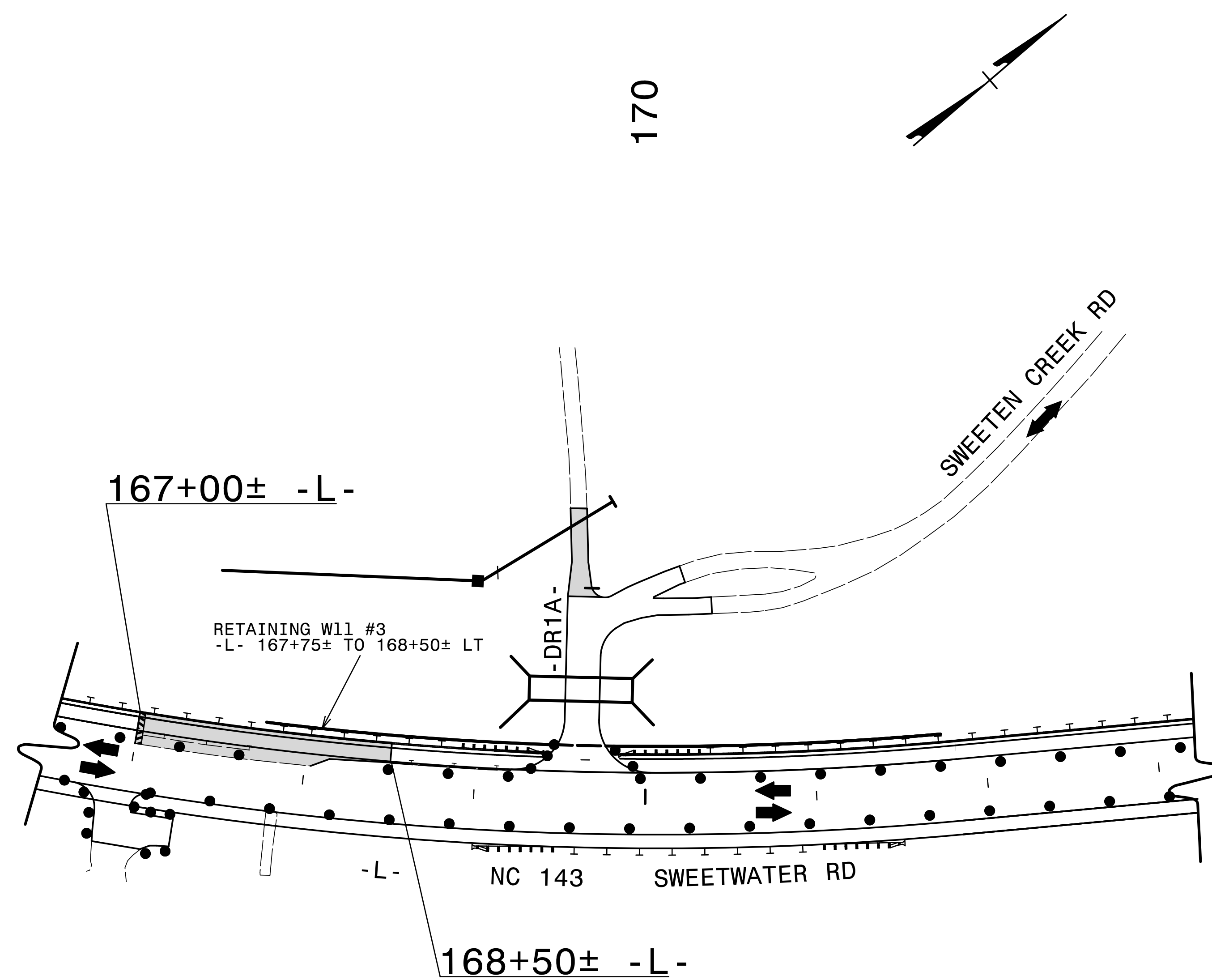
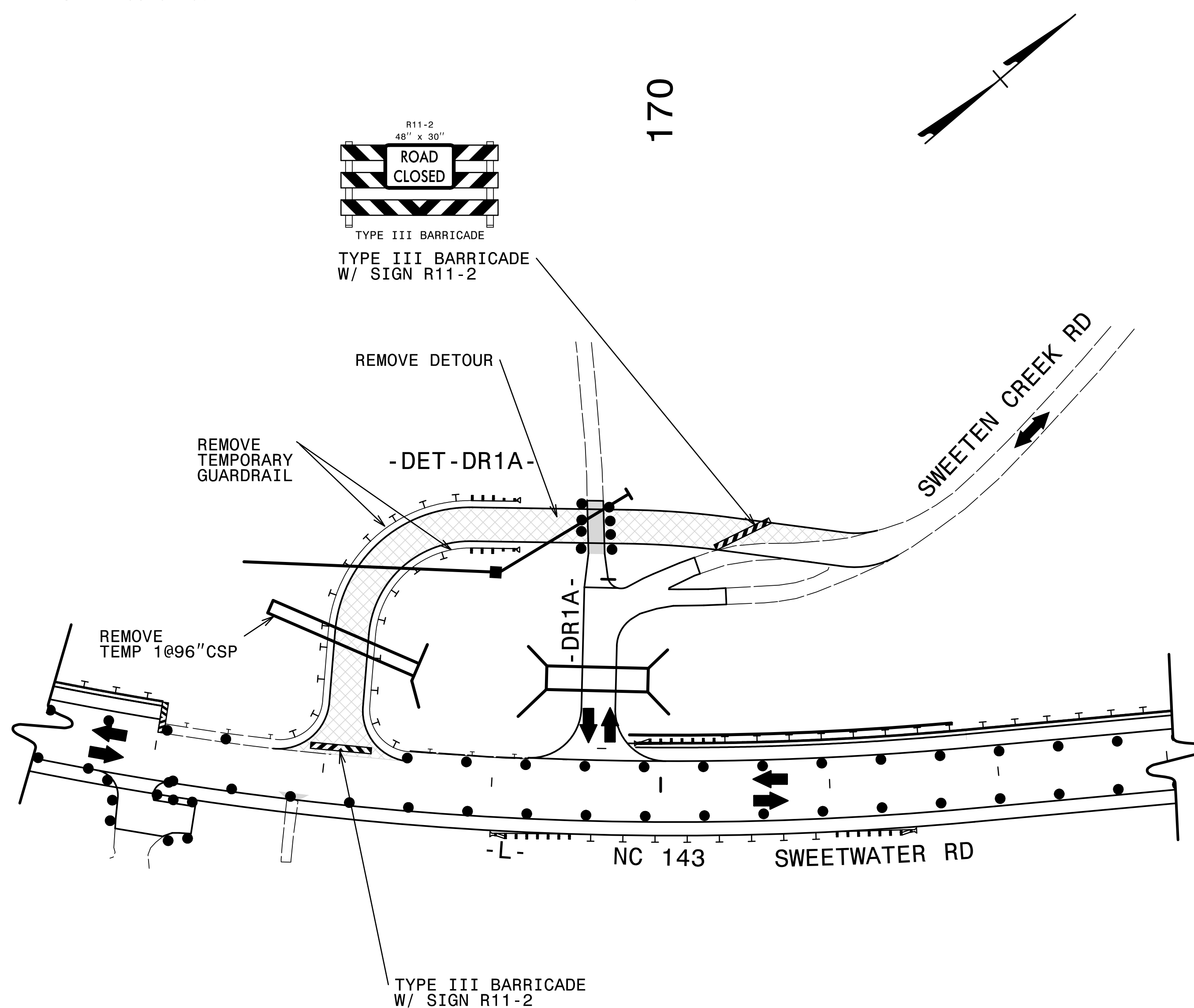
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 User: jsmelvin



# PHASE 1, STEP 3.A

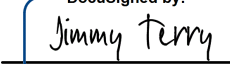
# PHASE 1, STEP 3.B

PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-19
 TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

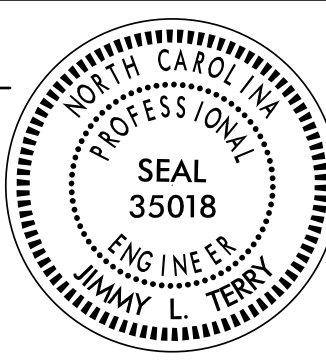
SEE EROSION CONTROL PLANS FOR CULVERT CONSTRUCTION SEQUENCE



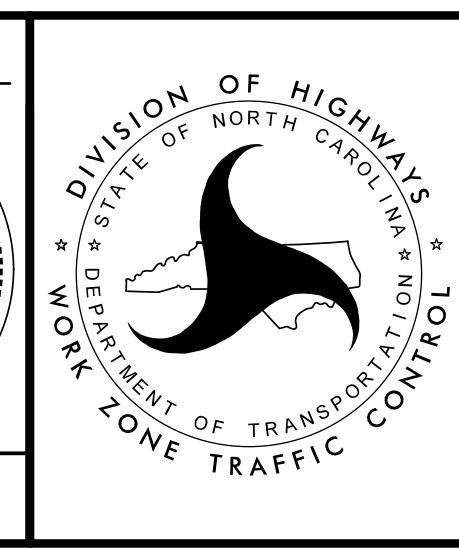
-  PROPOSED CONSTRUCTION & WIDENING EXISTING PAVEMENT
-  REMOVE EXISTING PAVEMENT

APPROVED:   
 DATE: 5/31/2022

SEAL



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

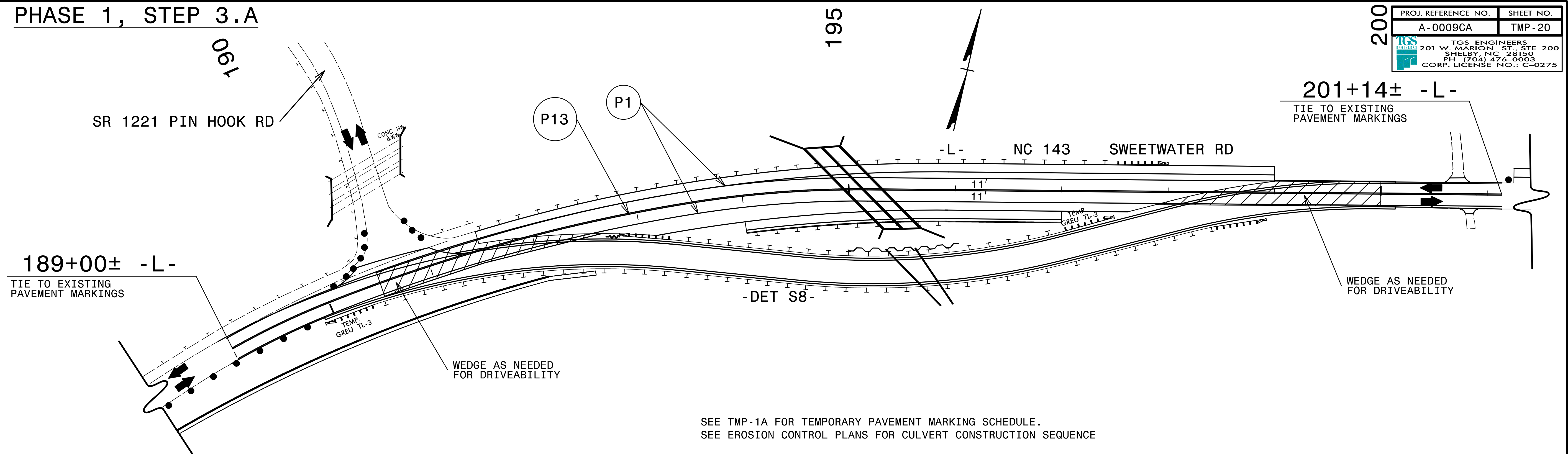


**PHASE I  
DETAIL  
NC 143**

5/16/2022  
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 User: jsmelvin

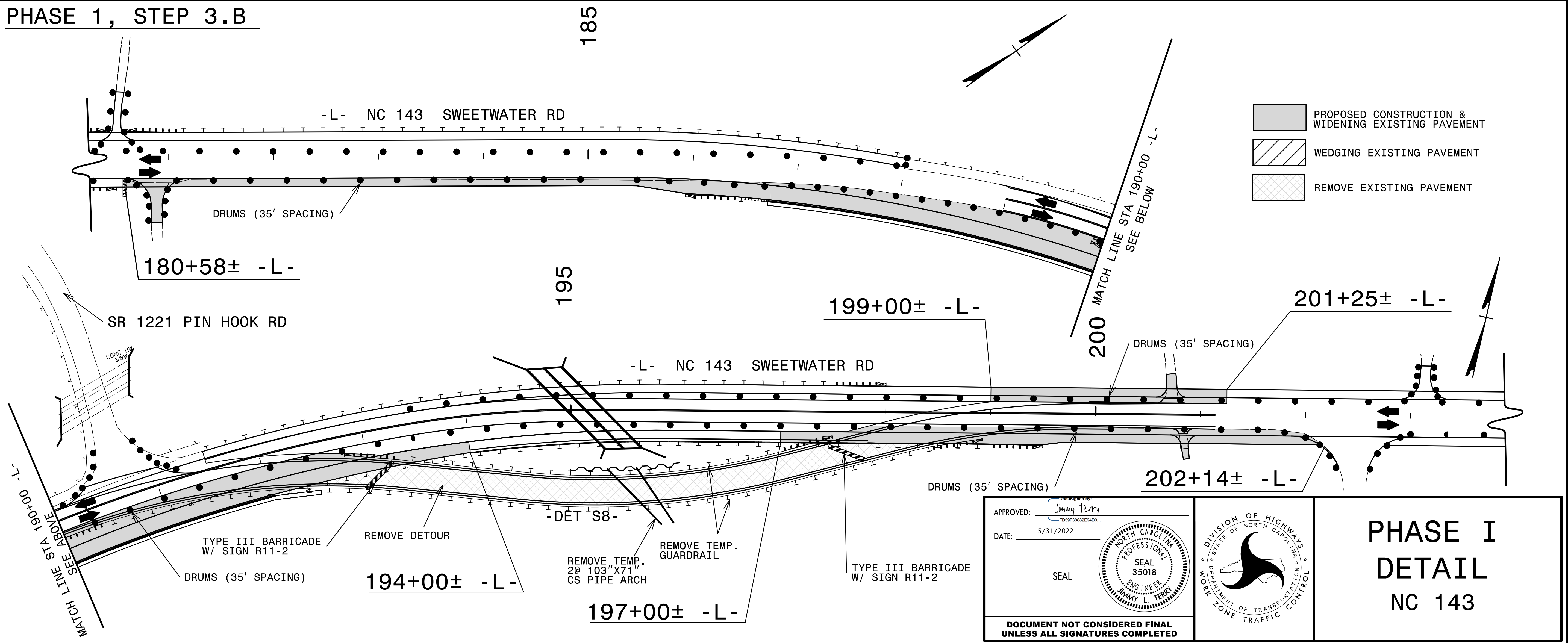


### PHASE 1, STEP 3.A



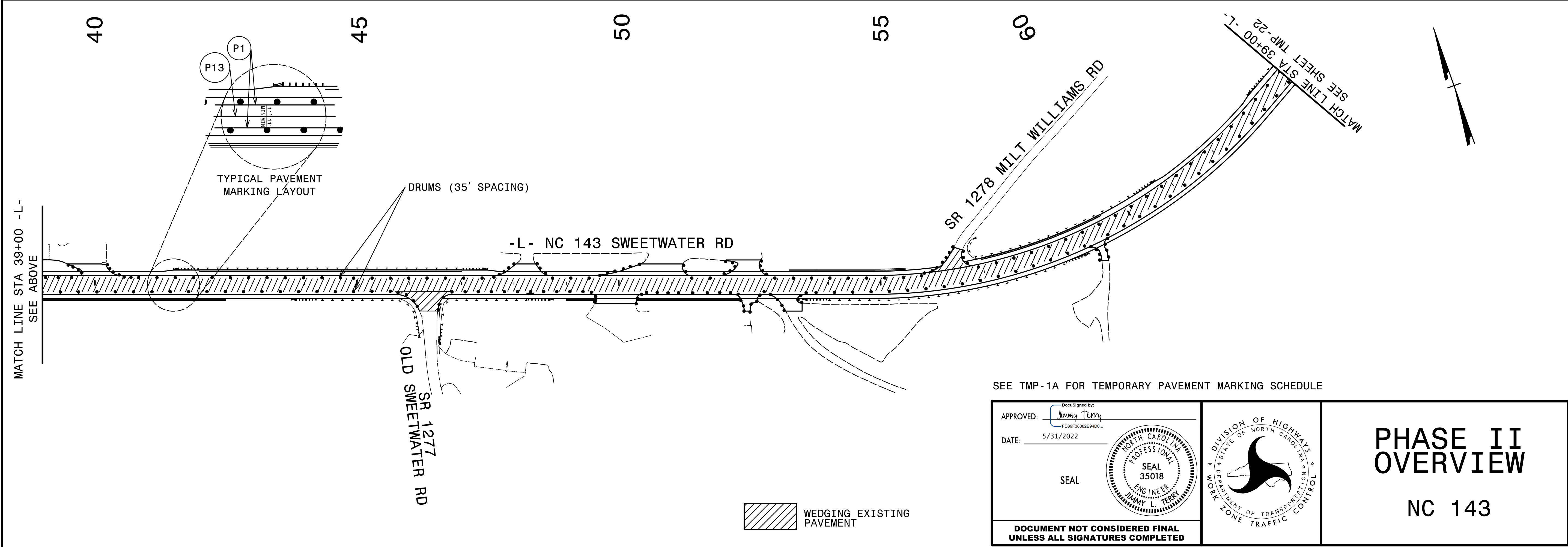
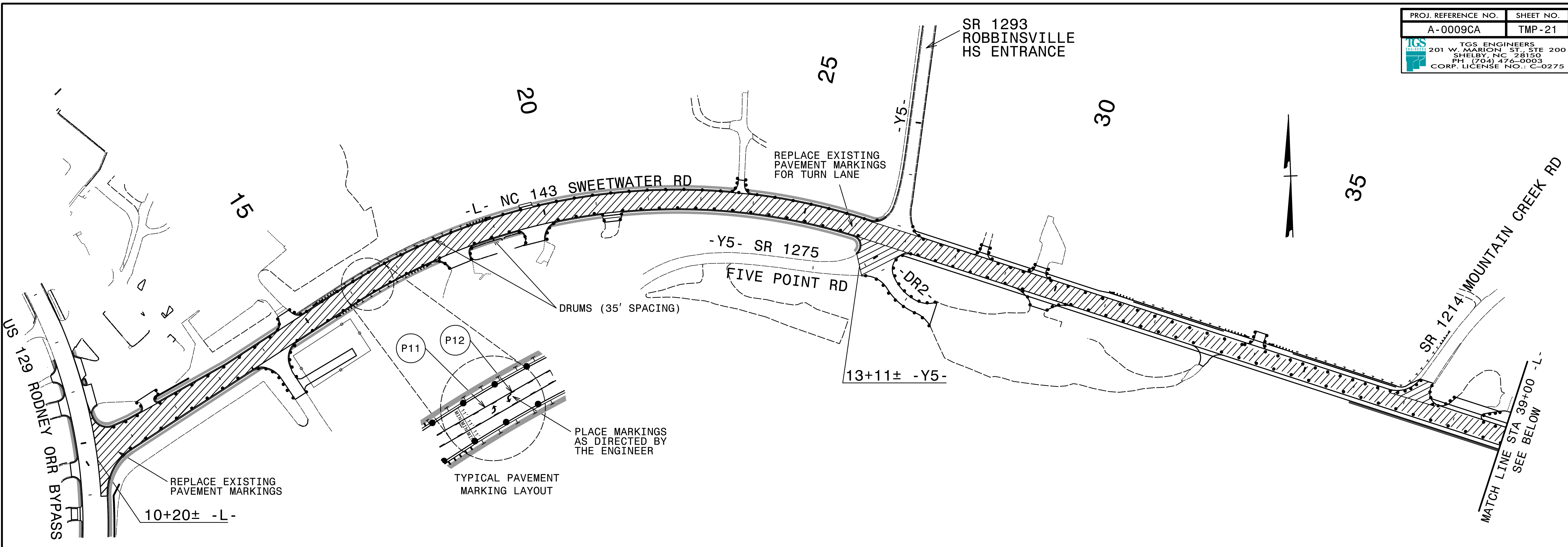
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A-0009CA	TMP-20
TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

### PHASE 1, STEP 3.B

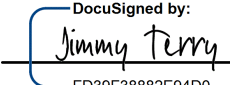


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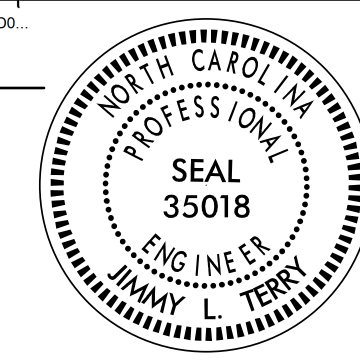


SEE TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

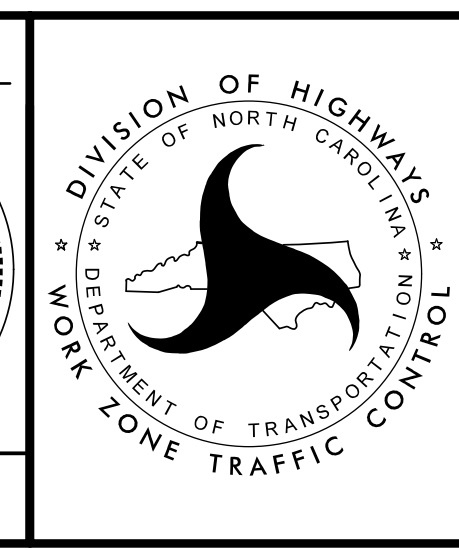
APPROVED:   
DocuSigned by:  
Jimmy Terry  
F039F3882E94D0

DATE: 5/31/2022

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UNLESS ALL SIGNATURES COMPLETED**




**PHASE II  
OVERVIEW**

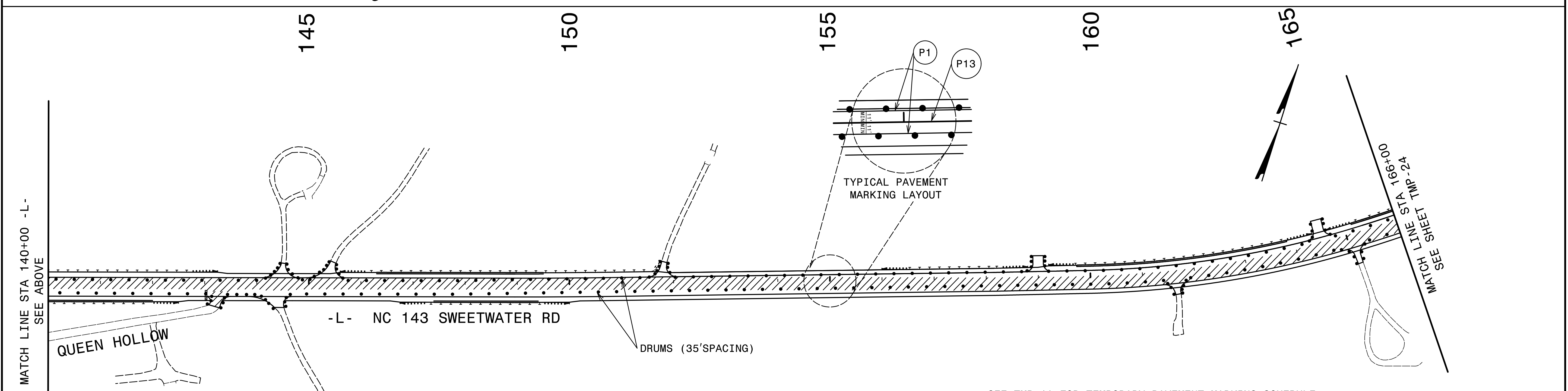
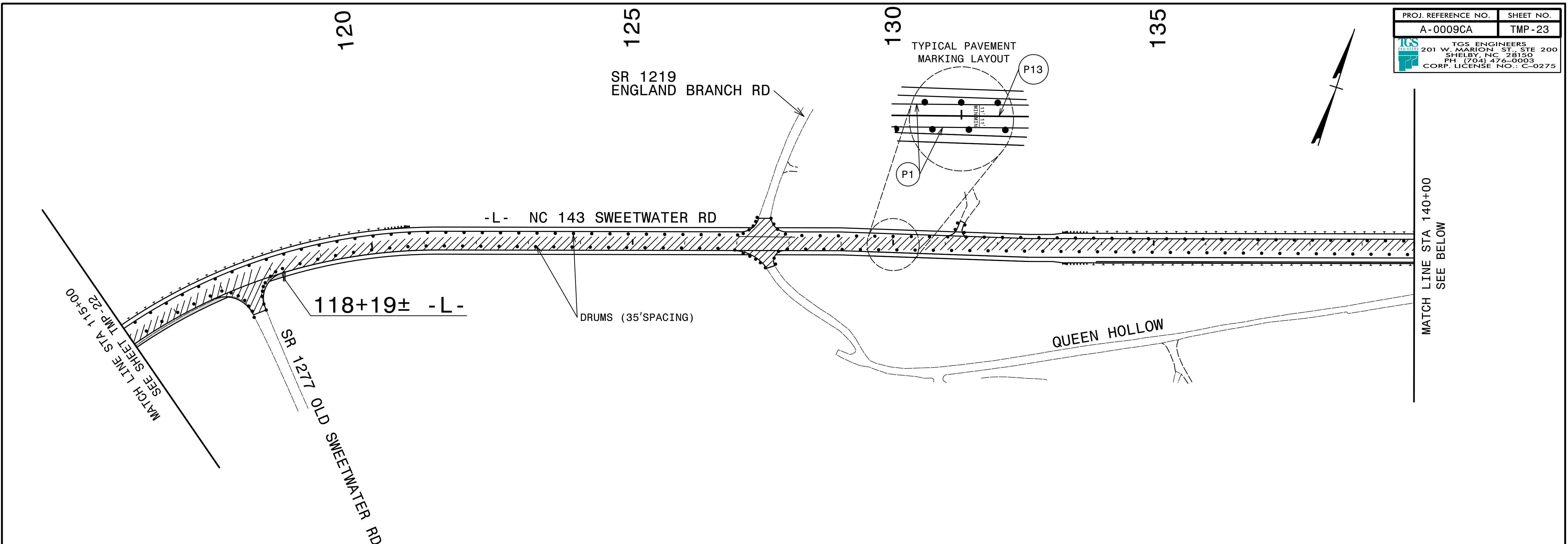
NC 143

5/16/2022  
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 User: jsmelvin





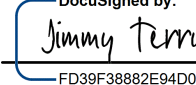
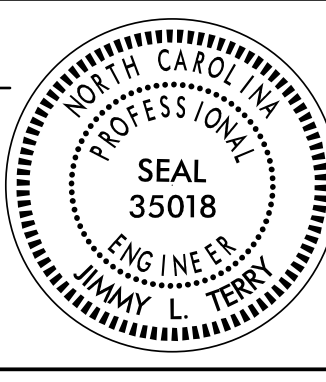
PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-23
 TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

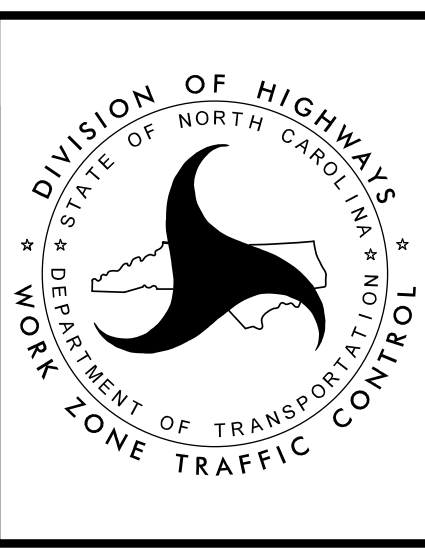


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 WEDGING EXISTING PAVEMENT

SEE TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

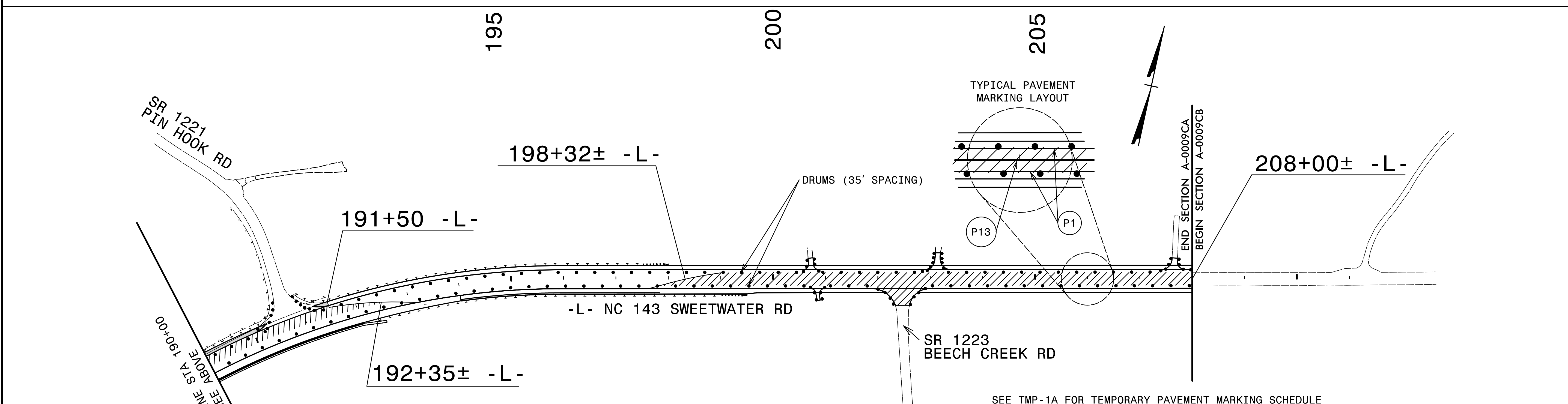
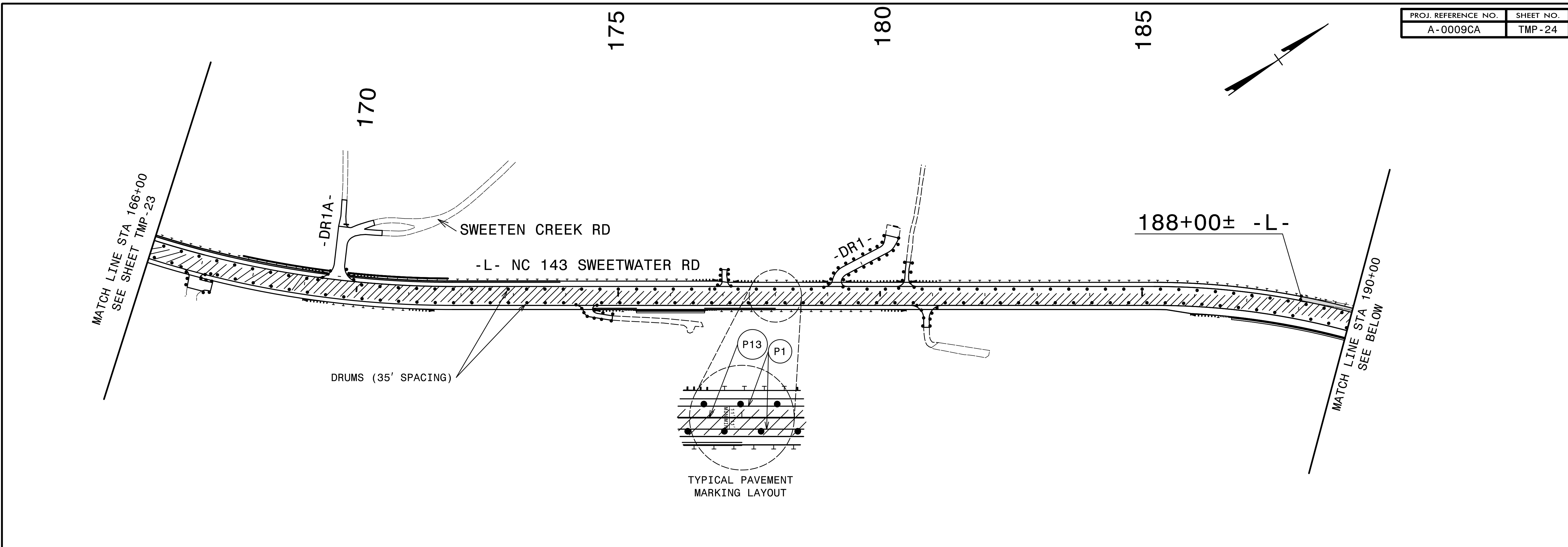
APPROVED:   
 DATE: 5/31/2022  
 SEAL  




**PHASE II OVERVIEW**  
 NC 143

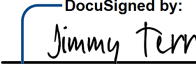
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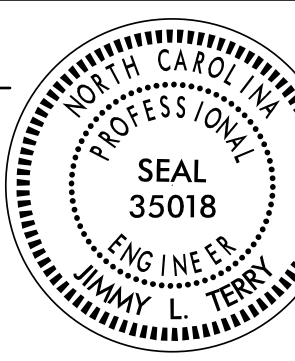


 WEDGING EXISTING PAVEMENT

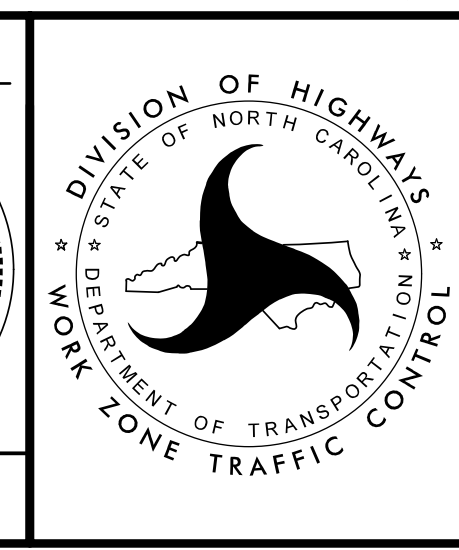
SEE TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

APPROVED:   
 DATE: 5/31/2022

SEAL




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

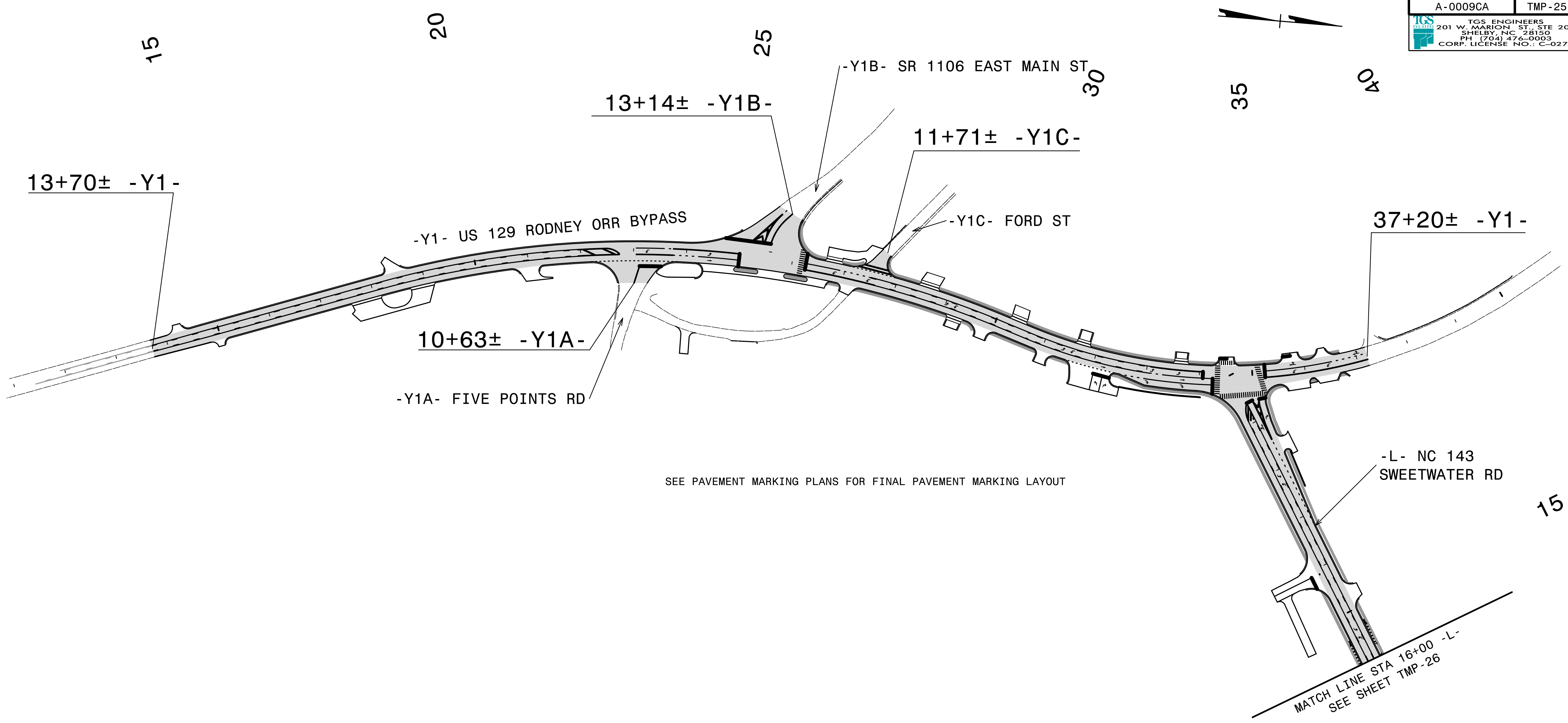
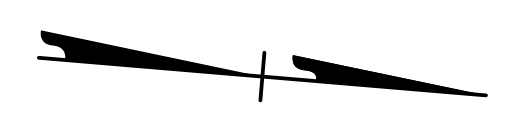


**PHASE II  
OVERVIEW**

NC 143

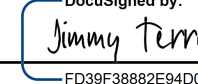
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 User: jmelvin

PROJ. REFERENCE NO.	SHEET NO.
A-0009CA	TMP-25
 <b>TGS ENGINEERS</b> 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275	



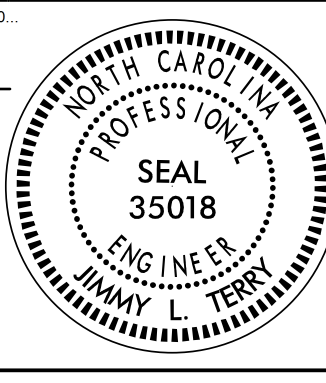
SEE PAVEMENT MARKING PLANS FOR FINAL PAVEMENT MARKING LAYOUT

 PROPOSED CONSTRUCTION  
FINAL LAYER OF SURFACE COURSE

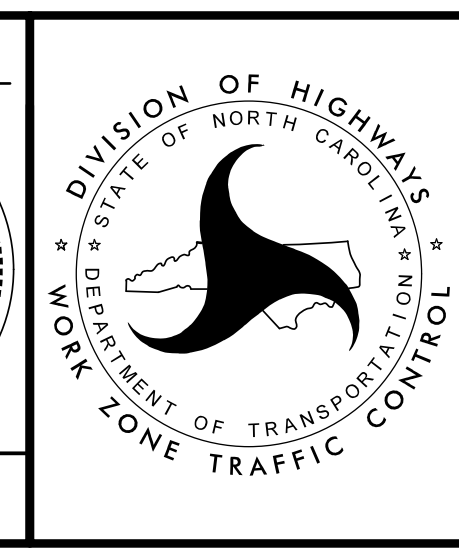
APPROVED:   
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DATE: 5/31/2022

SEAL



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UNLESS ALL SIGNATURES COMPLETED**




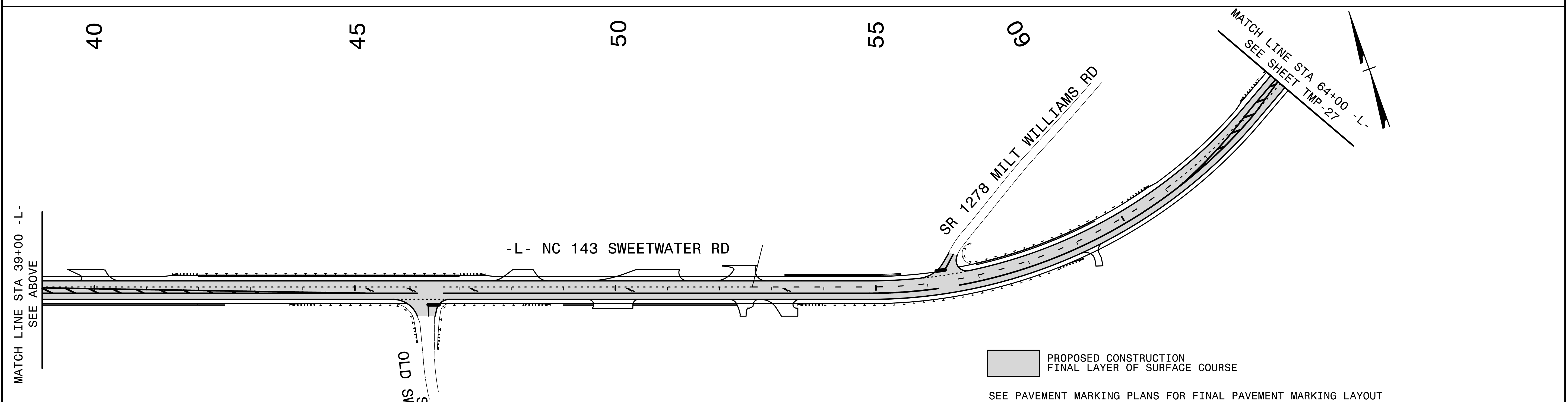
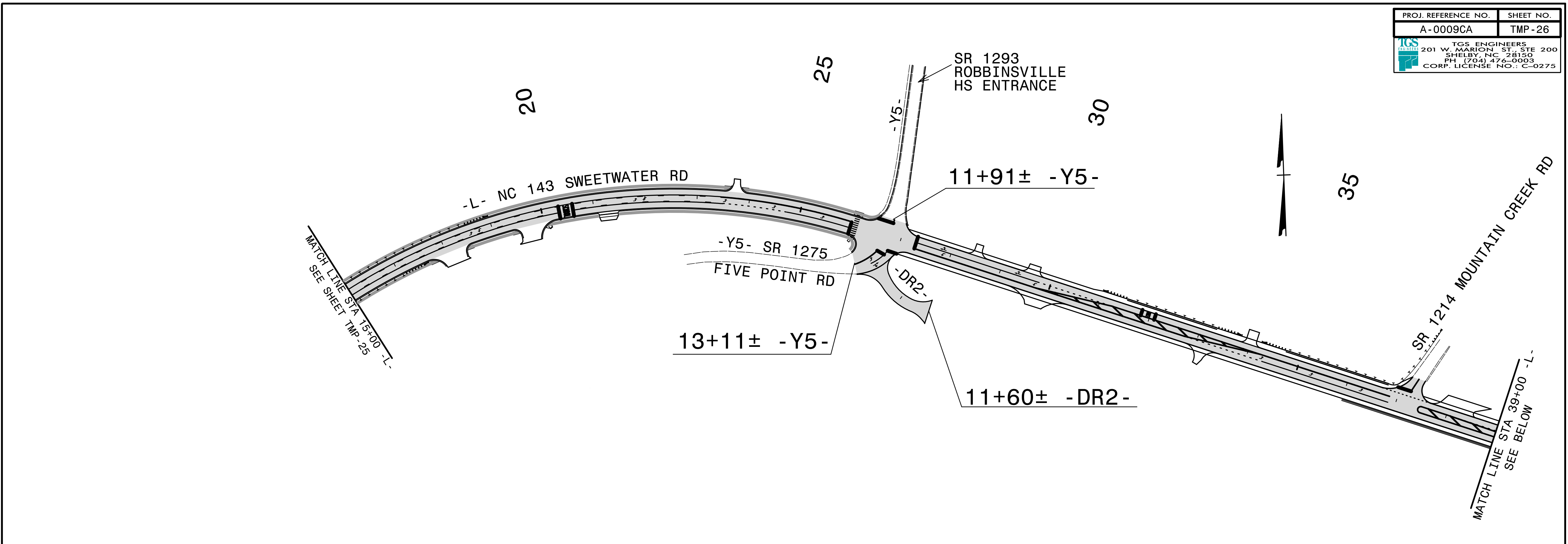
**PHASE III  
OVERVIEW**

US 129/NC 143

5/16/2022  
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 User: jsmelvin

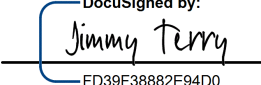


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A-0009CA	TMP-26
 <b>TGS ENGINEERS</b> 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 474-0003 CORP. LICENSE NO.: C-0275	



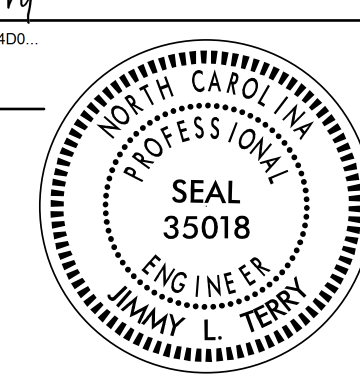
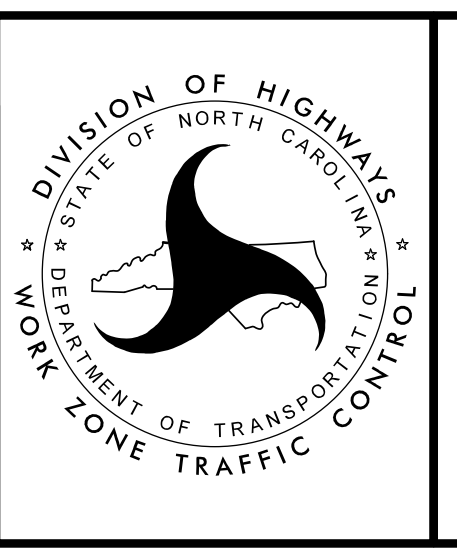

 PROPOSED CONSTRUCTION  
 FINAL LAYER OF SURFACE COURSE

SEE PAVEMENT MARKING PLANS FOR FINAL PAVEMENT MARKING LAYOUT

APPROVED:   
DESIGNED BY  
FD39F3882E94D0...

DATE: 5/31/2022


SEAL

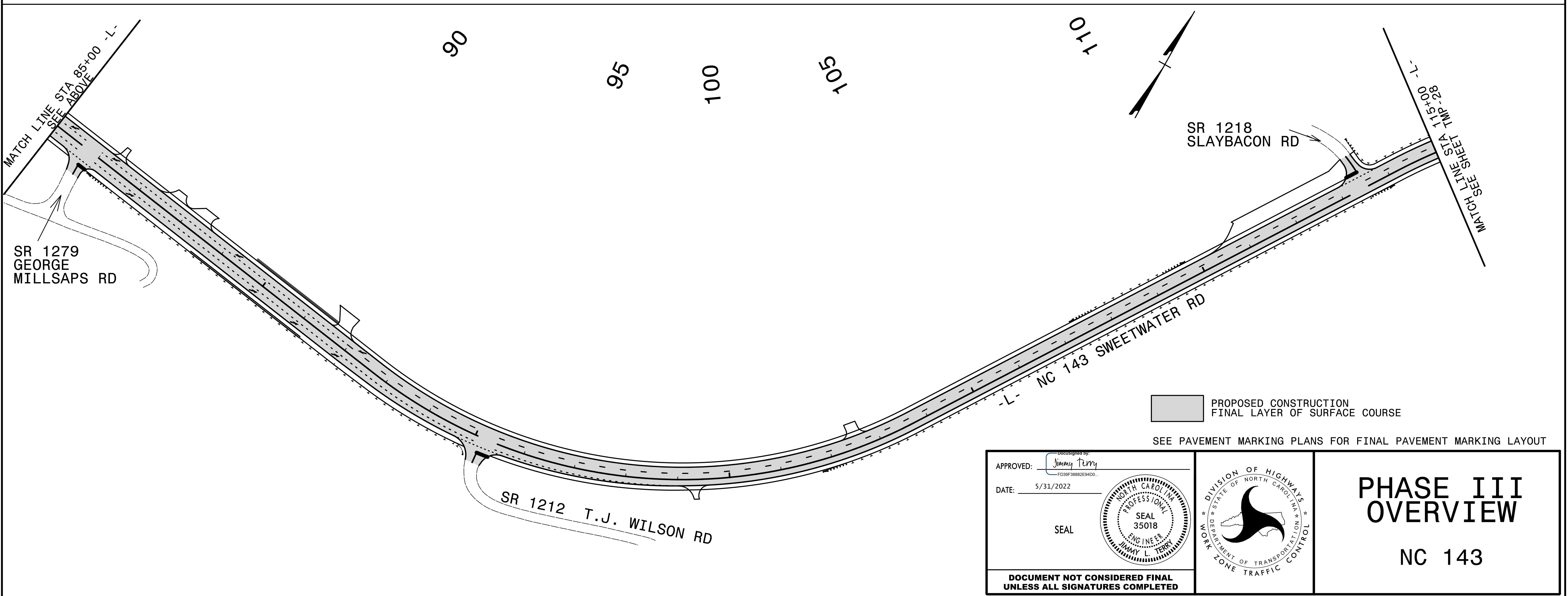
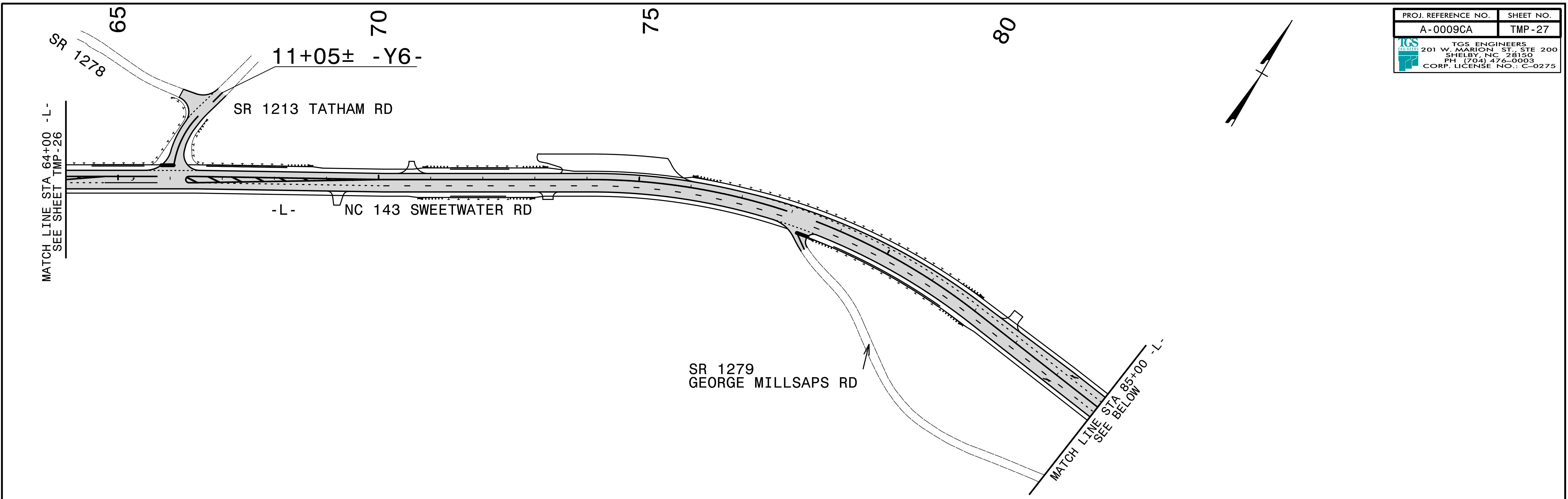




**PHASE III  
 OVERVIEW**  
  
 NC 143

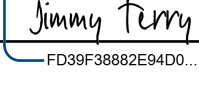
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 User: jsmelvin

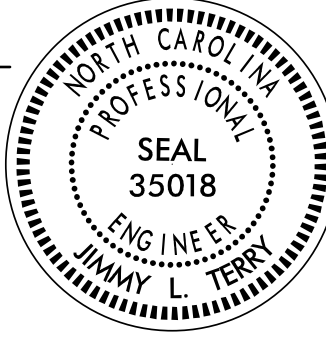
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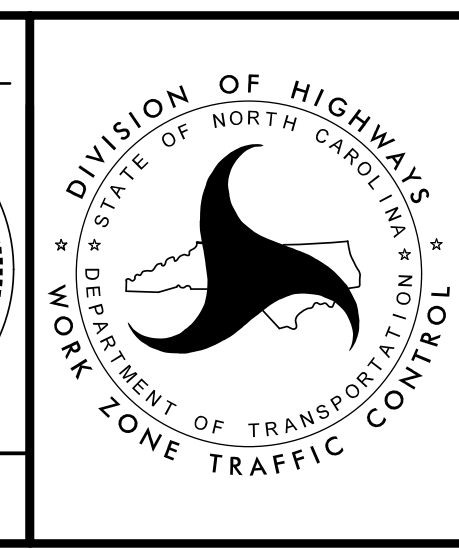
 PROPOSED CONSTRUCTION  
 FINAL LAYER OF SURFACE COURSE  
 SEE PAVEMENT MARKING PLANS FOR FINAL PAVEMENT MARKING LAYOUT

APPROVED:   
 DATE: 5/31/2022

SEAL



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




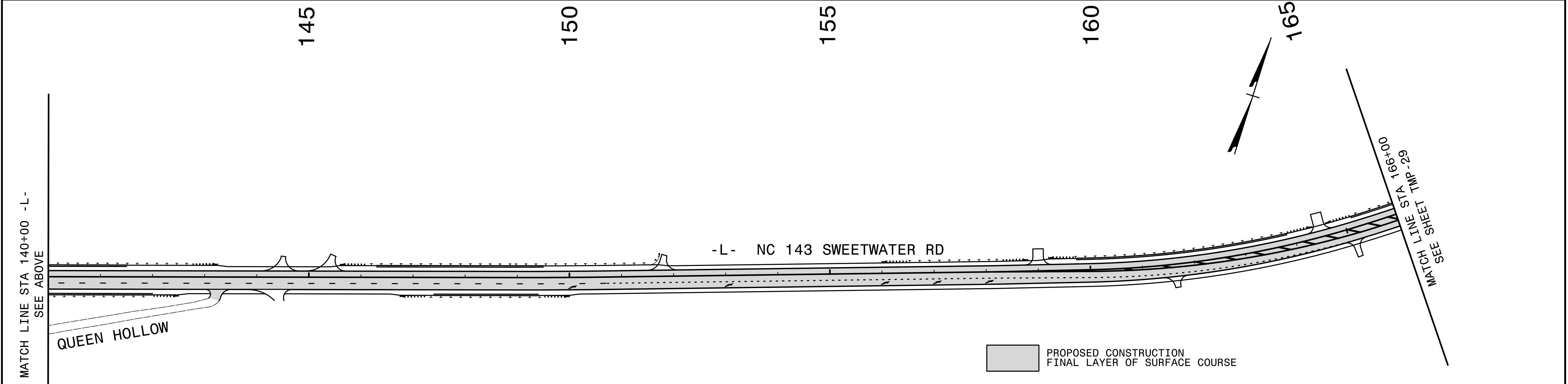
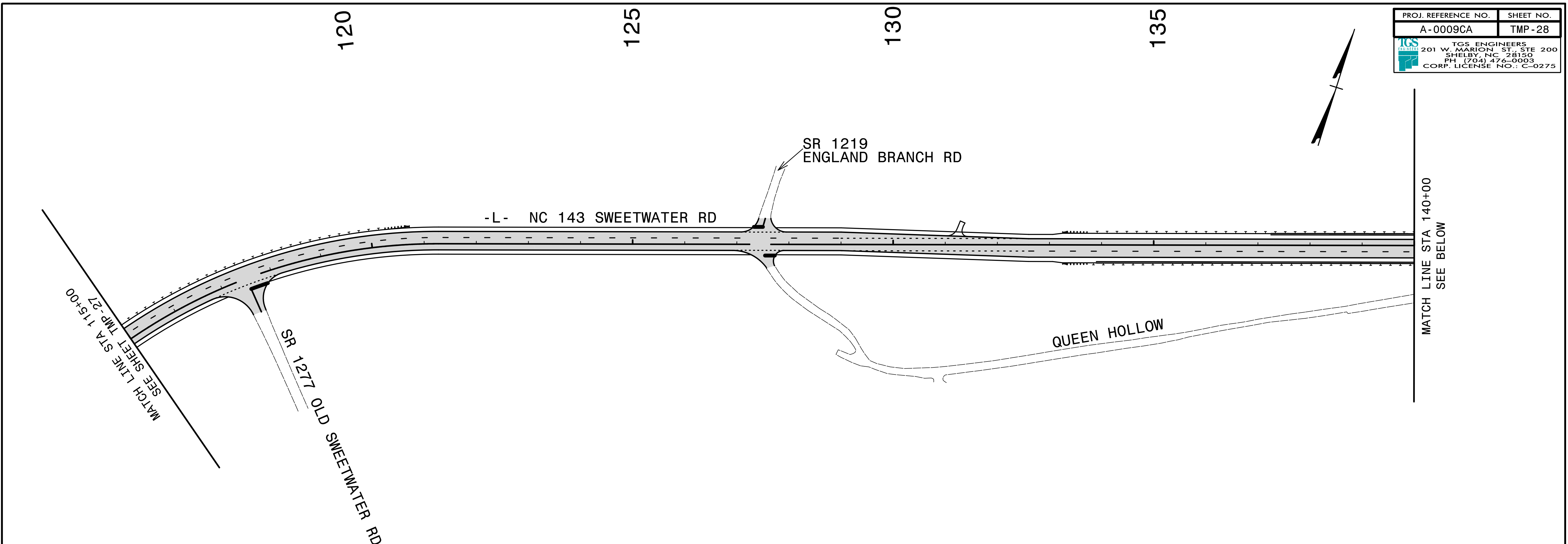
**PHASE III  
OVERVIEW**

NC 143

5/16/2022  
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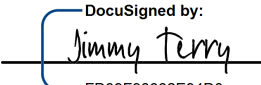


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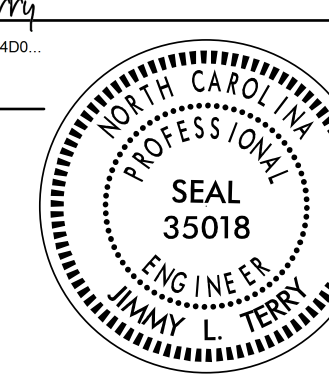
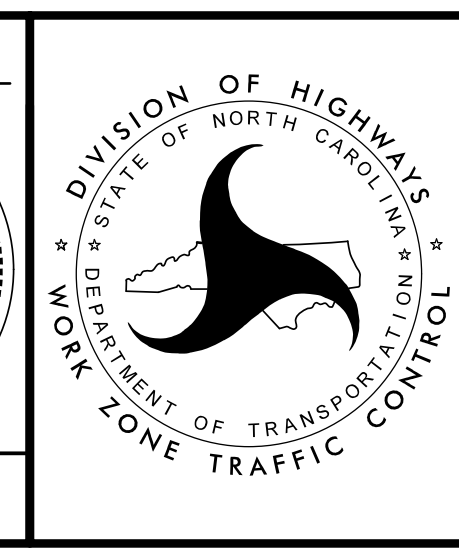
 PROPOSED CONSTRUCTION  
FINAL LAYER OF SURFACE COURSE

SEE PAVEMENT MARKING PLANS FOR FINAL PAVEMENT MARKING LAYOUT

APPROVED:   
DocuSigned by:  
Jimmy Terry  
FD9F38882E94D0...

DATE: 5/31/2022

SEAL

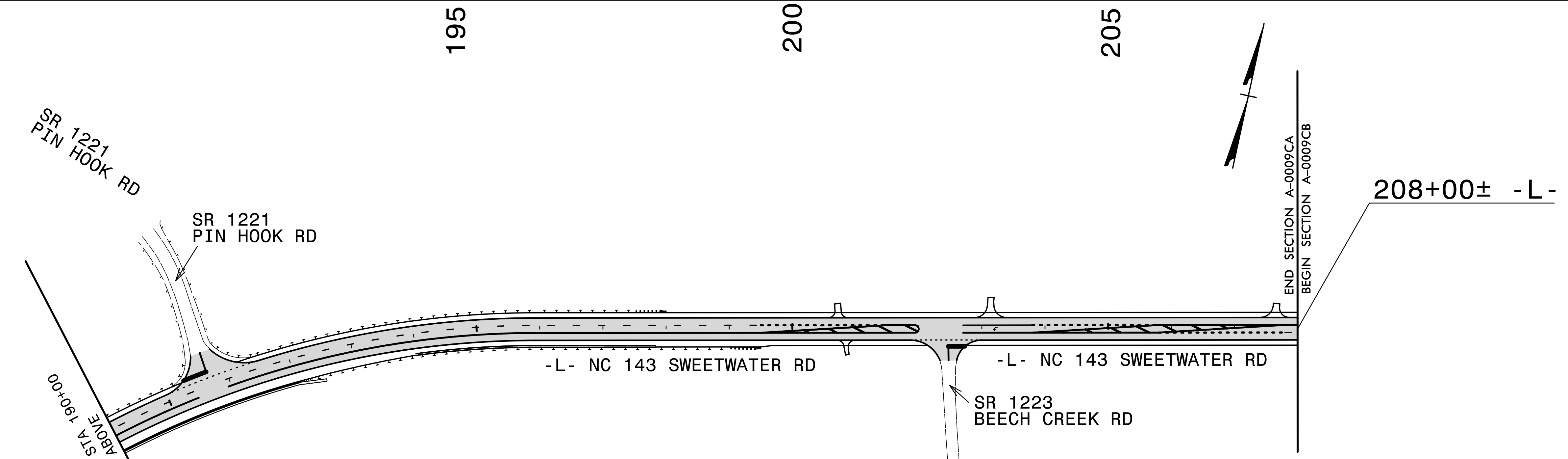
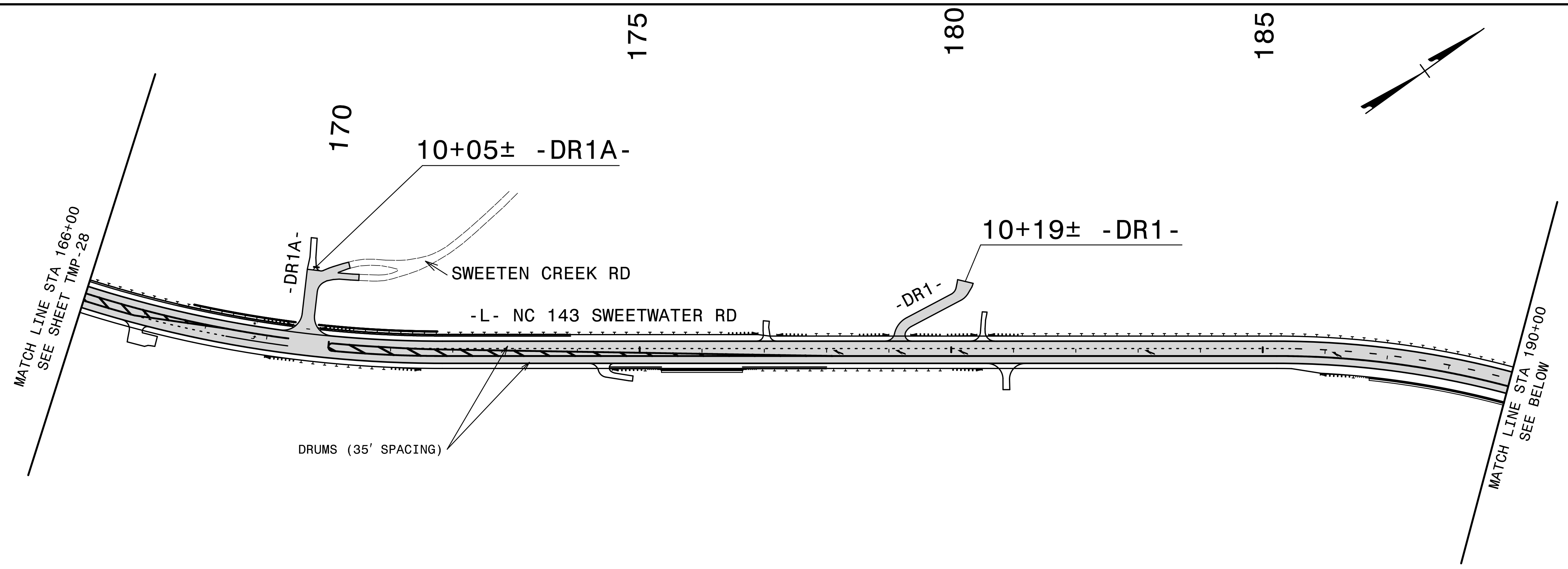
**PHASE III  
OVERVIEW**

NC 143

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UNLESS ALL SIGNATURES COMPLETED**

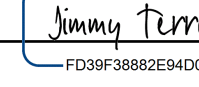
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 User: jsmelvin

PROJ. REFERENCE NO. A-0009CA	SHEET NO. TMP-29
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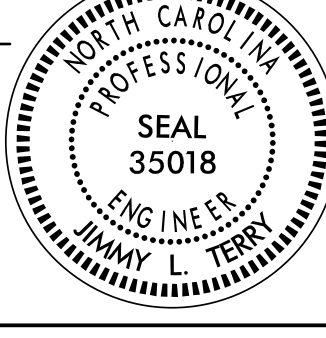


 PROPOSED CONSTRUCTION  
 FINAL LAYER OF SURFACE COURSE

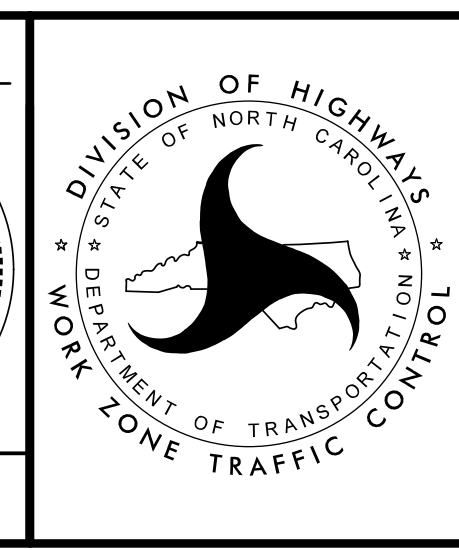
SEE PAVEMENT MARKING PLANS FOR FINAL PAVEMENT MARKING LAYOUT

APPROVED:   
 DATE: 5/31/2022

SEAL



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



**PHASE III  
OVERVIEW**

NC 143

5/16/2022  
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