STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE WBS PROJECT REFERENCE NO.	SHEET NO.	
37897-A	TCP-1	

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

CATAWBA COUNTY

ROADWAY STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 2006 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
1101.02	Temporary Lane Closures
1101.03	Temporary Road Closures
1101.04	Temporary Shoulder Closures
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	·
1150.01	Flaggers Devices
1180.01	Skinny - Drum
1205.01	Pavement Markings - Line Types and Offsets
1205.02	Pavement Markings - 2 Lane and Multilane Roadways
1205.04	Pavement Markings - Intersections
1205.05	Pavement Markings - Turn Lanes
1205.08	Pavement Markings - Symbols and Word Messages
1205.09	Pavement Markings - Painted Islands
1205.10	Pavement Markings - School Areas
1250.01	Pavement Marker Spacing
1253.01	Snowplowable Raised Pavement Markers
1261.01	Guardrail and Barrier Delineator Spacing
1261.02	Guardrail and Barrier Delineator Types
1262.01	Guardrail End Delineation

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TCP-12	DETOUR SIGN LAYOUT (-Y1-)
PM - 1	PAVEMENT MARKING PLAN
NCMA - 1	DETAIL DRAWING FOR ADVANCE WARNING WORK ZONE SIGNS
NCMA-2	SIGN DESIGN FOR CONTRACTORS COMPANY NAME

INTERMEDIATE PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM	QUANTITY BREAKDOWN	TOTAL QUANTITY
		PAVEMENT MARKINGS LINES		
P4	WHITE STOPBAR	PAINT (24")	11 LF	
			ТОТА	AL 11 LF
PD PE	2 FT. WHITE MINISKIP WHITE SOLD LANE LINE	PAINT (4")	67 LF 195 LF	
PI	YELLOW DOUBLE CENTER		3192 LF	
			тот	AL 3454 L
PV	YELLOW DIAGNOL	PAINT (8)	50 LF	
			TOTA	AL 50 LF
QA QB	LEFT TURN ARROW RIGHT TURN ARROW	PAINTMARKING SYMBOLS	1 EA 1 EA	
			тот	AL 2 EA

LEGEND

GENERAL

DIRECTION OF TRAFFIC FLOW

NORTH ARROW

--- PROPOSED PVMT. ----- EXIST. PVMT.

WORK AREA

REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

I TYPE I BARRICADE

Ⅲ TYPE II BARRICADE

TYPE III BARRICADE

CONE

DRUM

FLASHING ARROW PANEL (TYPE C)

TYPE 'B' WARNING LIGHT

- STATIONARY SIGN

PORTABLE SIGN

STATIONARY OR PORTABLE SIGN

WARNING FLAGS

CRASH CUSHION

CHANGEABLE MESSAGE SIGN

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

| POLIC

FLAGGER

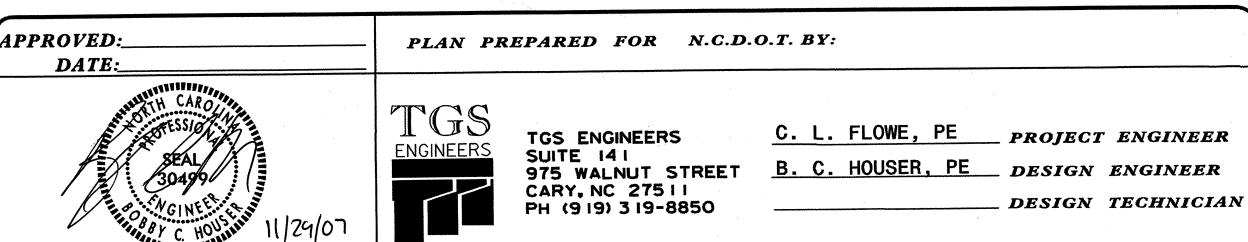
PAVEMENT MARKINGS

CRYSTAL/CRYSTAL PAVEMENT MARKER

♦ YELLOW/YELLOW PAVEMENT MARKER

CRYSTAL/RED PAVEMENT MARKER

PAVEMENT MARKING SYMBOLS



PROJECT NOTES

W.B.S. REFERENCE NO. SHEET NO. 37897-A TCP-2 MA12042R-A

GENERAL NOTES

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

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

TIME RESTRICTIONS

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

ROAD NAME

NC HWY 10

HOLIDAY

- 1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 8:00 A.M. DECEMBER 31st TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY. SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING
- 3. FOR EASTER, BETWEEN THE HOURS OF 8:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 8:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 8:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 8:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- 6. FOR LABOR DAY, BETWEEN THE HOURS OF 8:00 FRIDAY AND 8:00 P.M. TUESDAY.
- 7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 8:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 8:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

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- 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 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 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 DRÁWING 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.

G) DO NOT INSTALL MORE THAN 1000 ft OF LANE CLOSURE ON NC HWY 10 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

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

TRAFFIC PATTERN ALTERATIONS

NOTIFY THE ENGINEER TWENTY ONE (21) 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.
- STATE FORCES WILL BE RESPONSIBLE FOR PERMANENT SIGNING.
- STATE FORCES WILL BE RESPONSIBLE FOR DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A 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' IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ÈNGINÉER.

TRAFFIC CONTROL DEVICES

- SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- R) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS, CONES OR SKINNY DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

-DR1- & -DR2-

INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

MARKER ROAD NAME MARKING NC HWY10 THERMOPLASTIC SNOWPLOWABLE RAISED SR 2031 THERMOPLASTIC SNOWPLOWABLE RAISED SR 2032 THERMOPLASTIC SNOWPLOWABLE RAISED **CONLEY ST THERMOPLASTIC** SNOWPLOWABLE RAISED

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

THERMOPLASTIC

ROAD NAME MARKING **MARKER** NC HWY10 **PAINT** SR2031 PAINT SR2032 **PAINT CONLEY ST PAINT**

- 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.

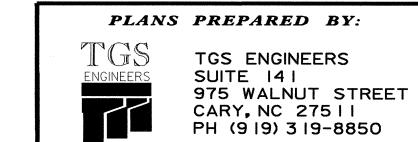
MISCELLANEOUS

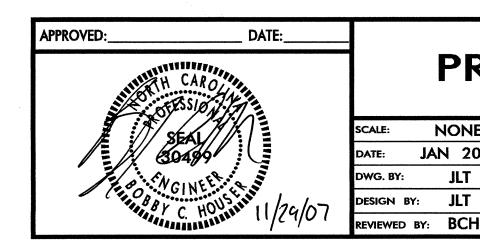
Y) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 350' AND 350' RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

LOCAL NOTES

THE FOLLOWING LOCAL NOTES APPLY ONLY AT THE TIMES THEY ARE REFERENCED IN THE PLAN.

- 1) MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES USING INCIDENTAL STONE.
- 2) 37897 PART B MUST BE COMPLETED BEFORE WORK ON 37897 PART A CAN BEGIN.





PROJECT NOTES

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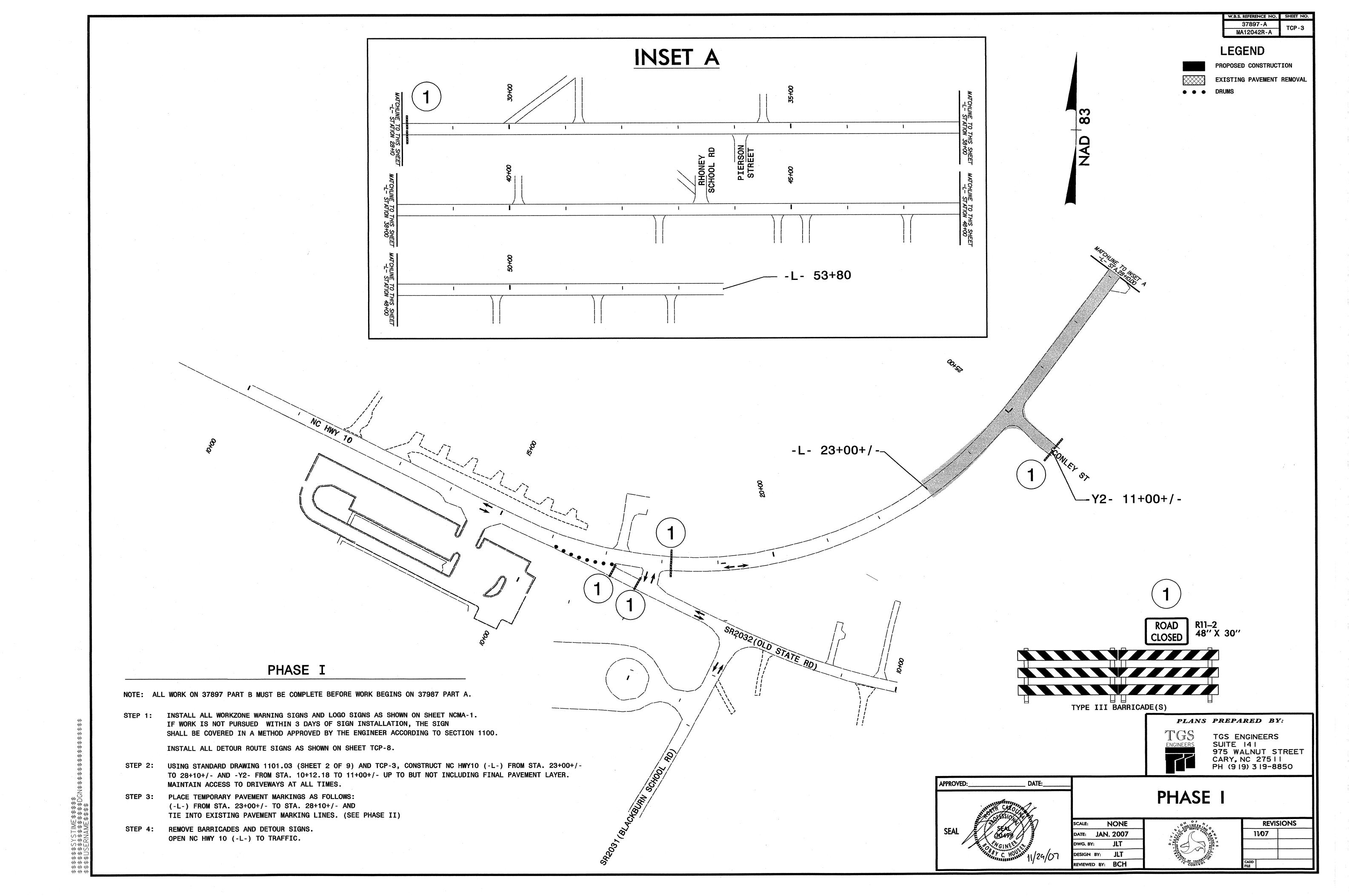
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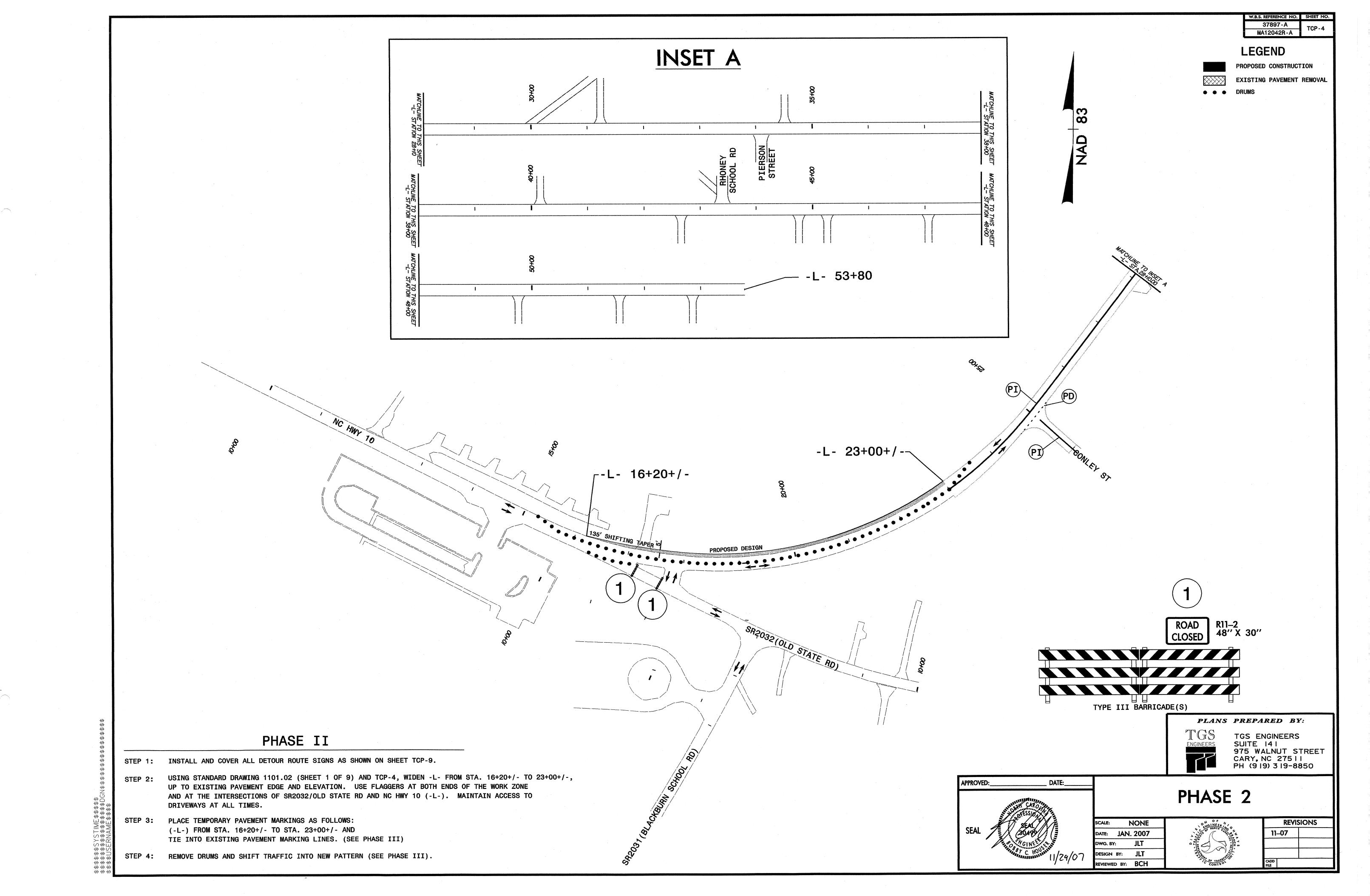
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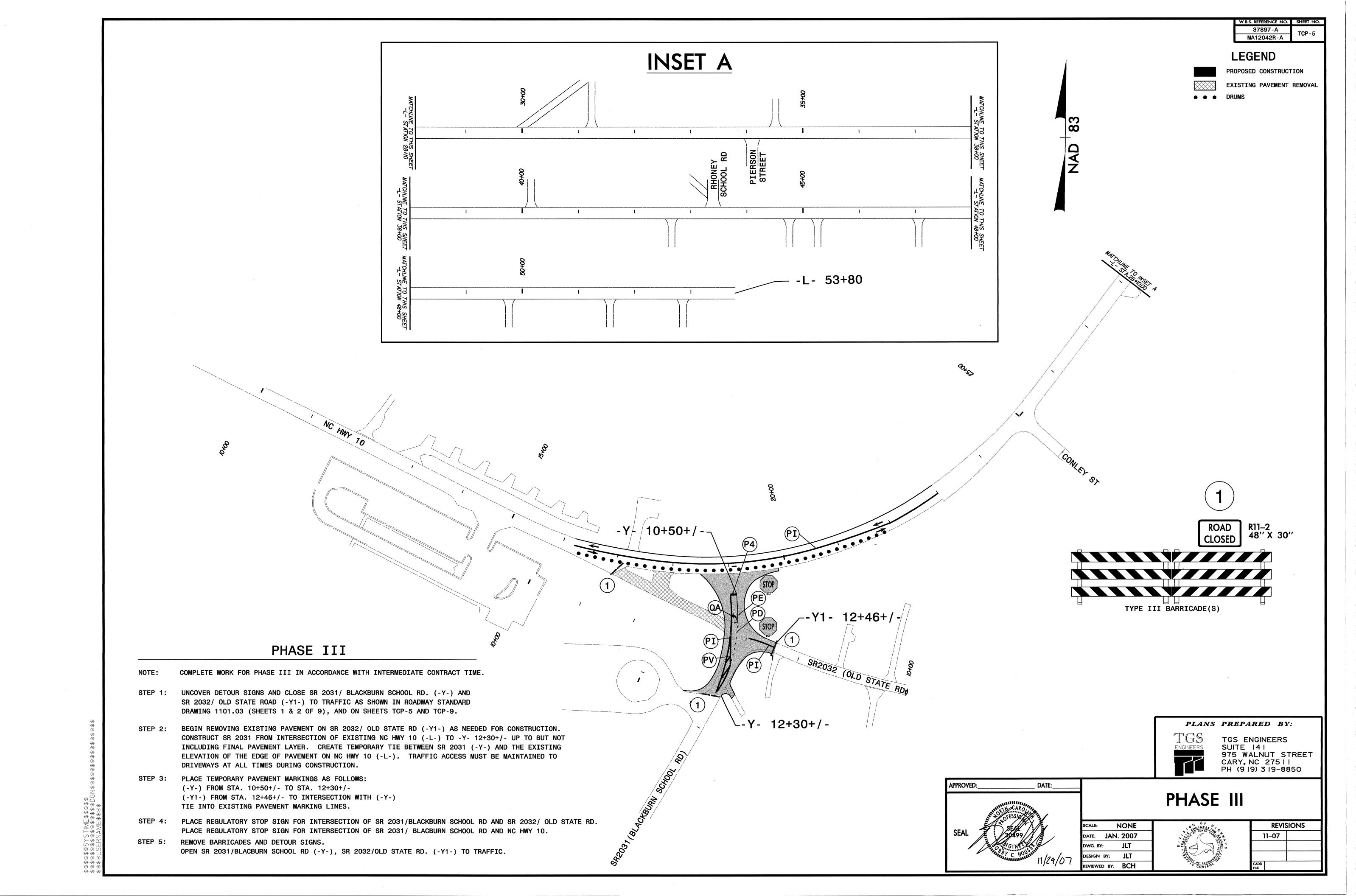
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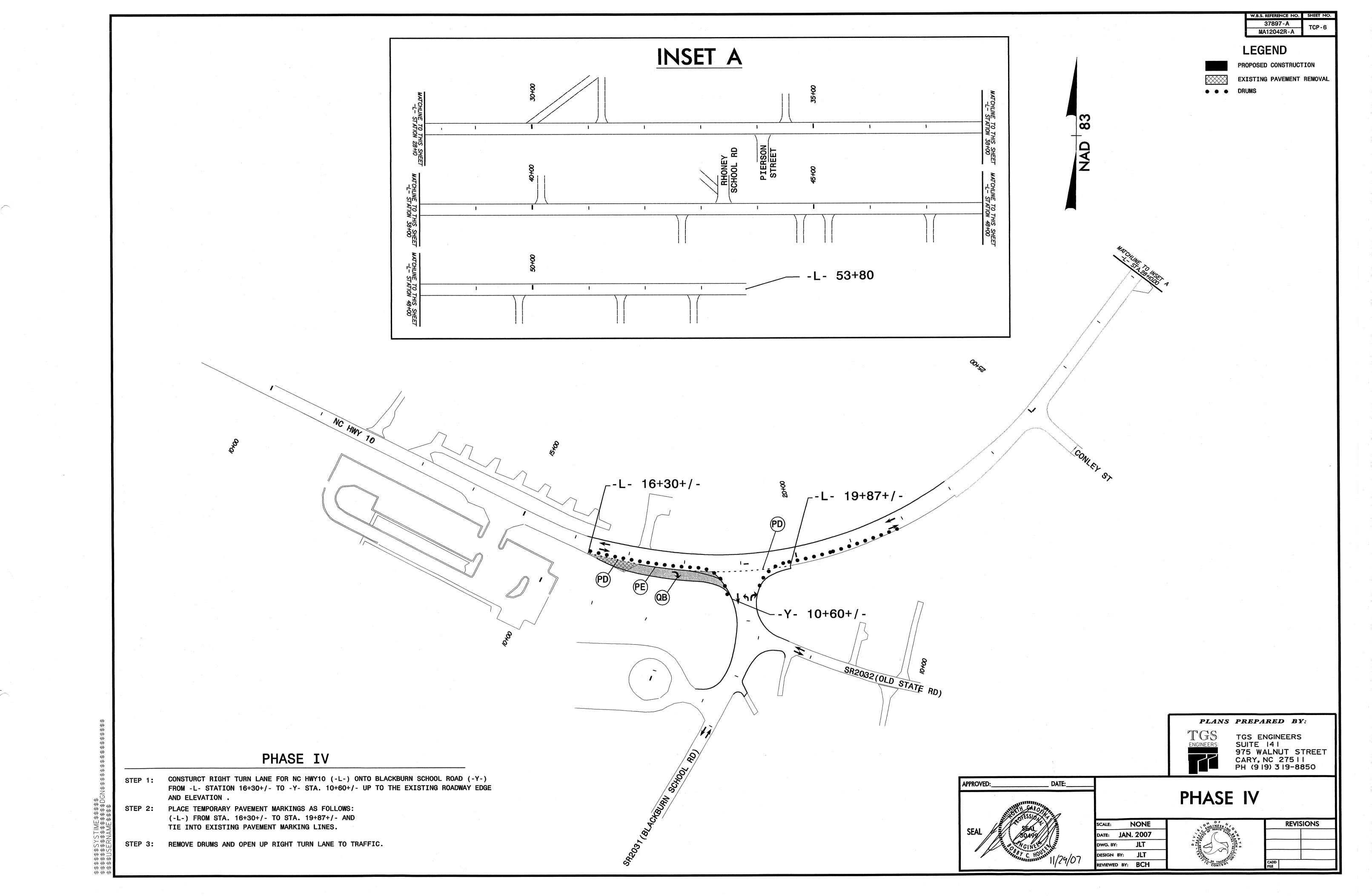
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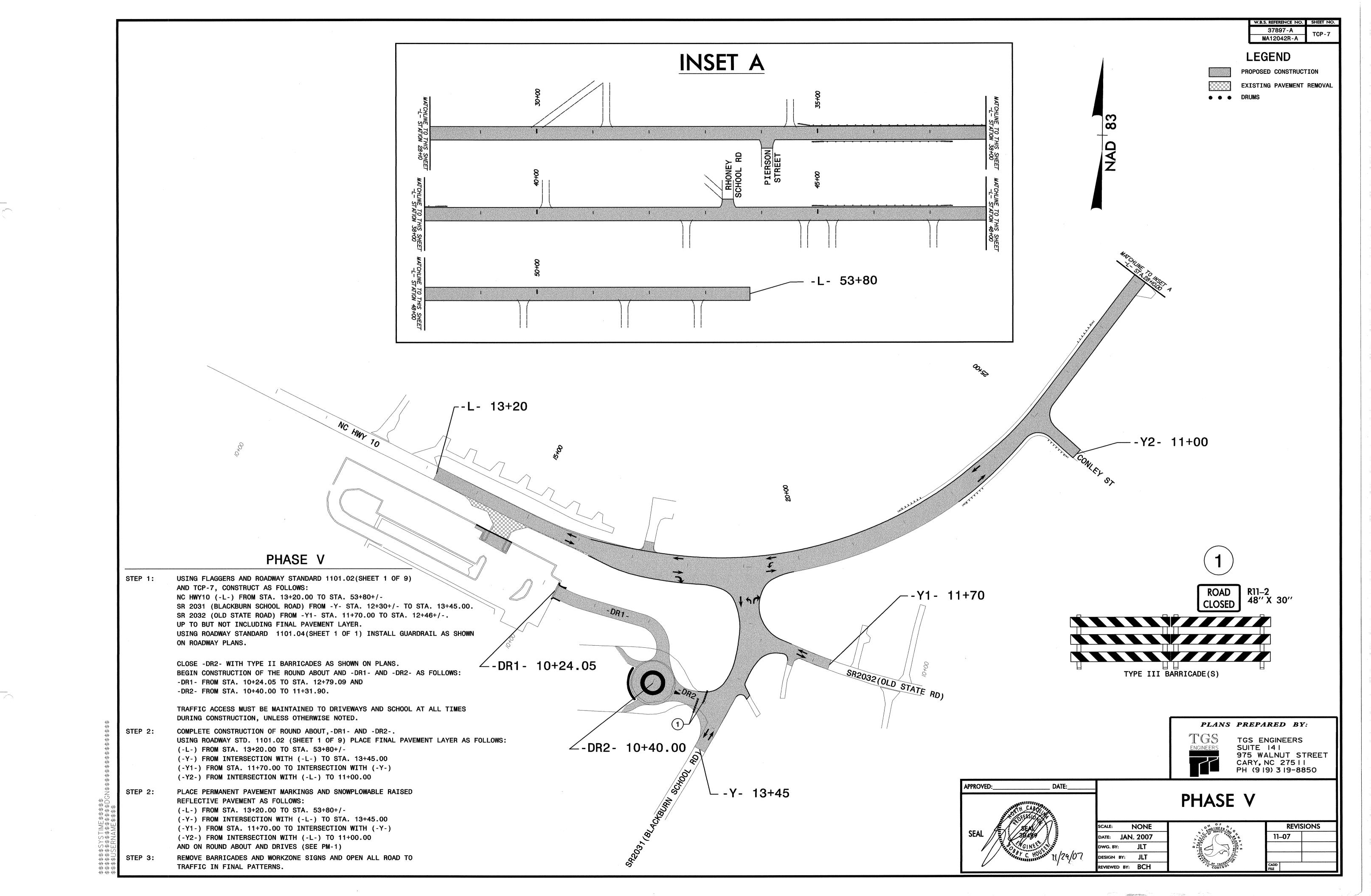
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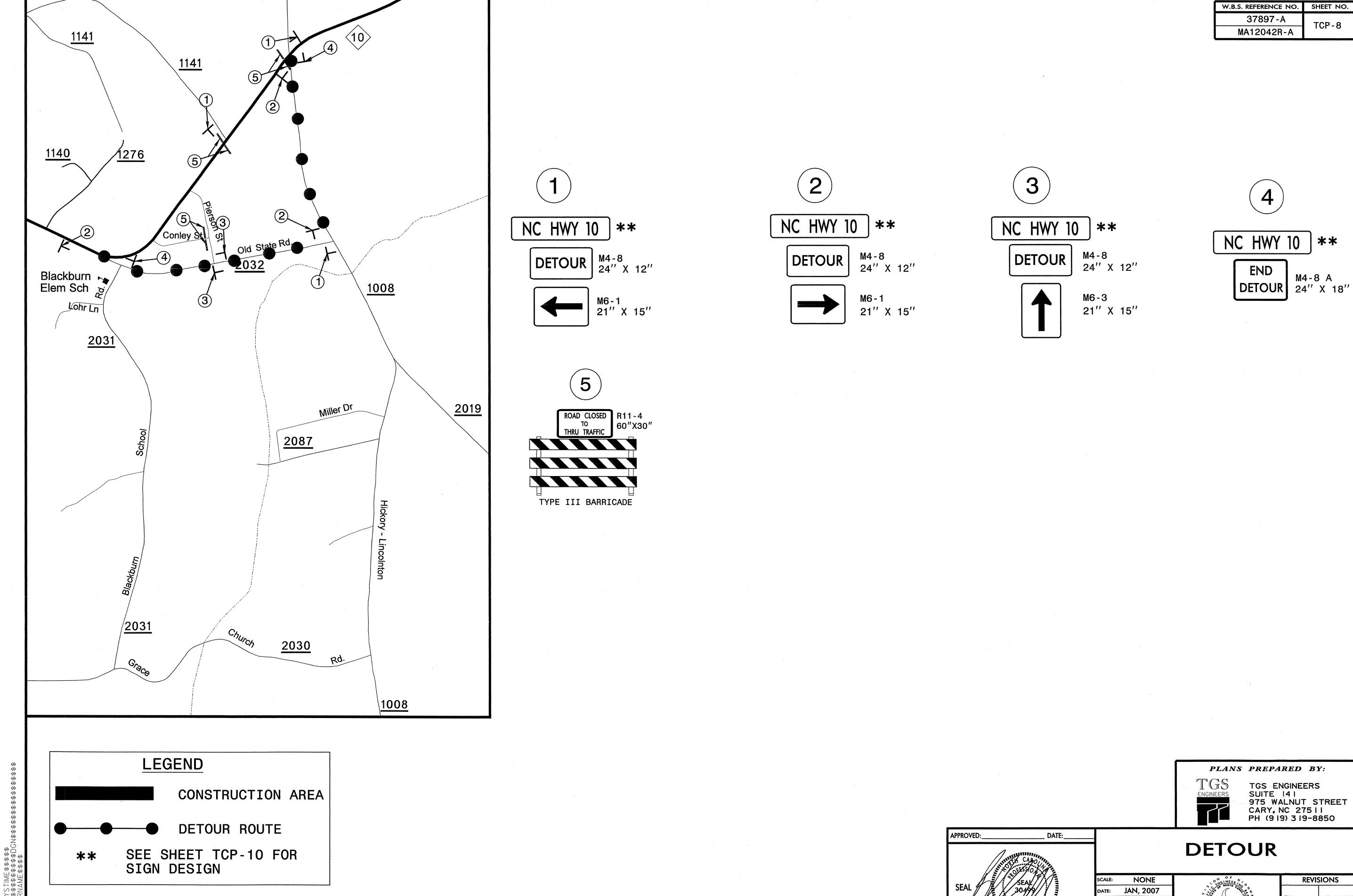


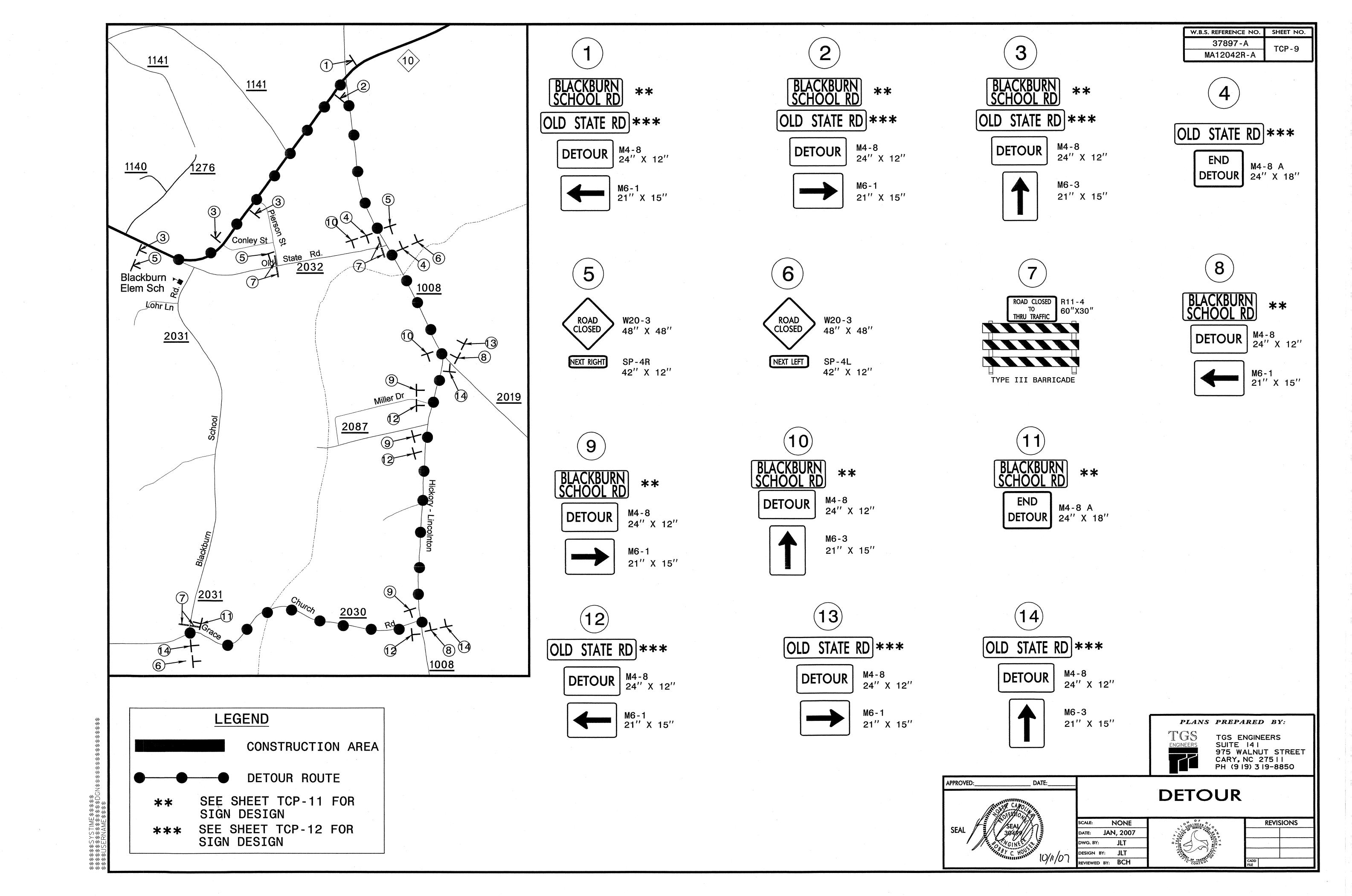






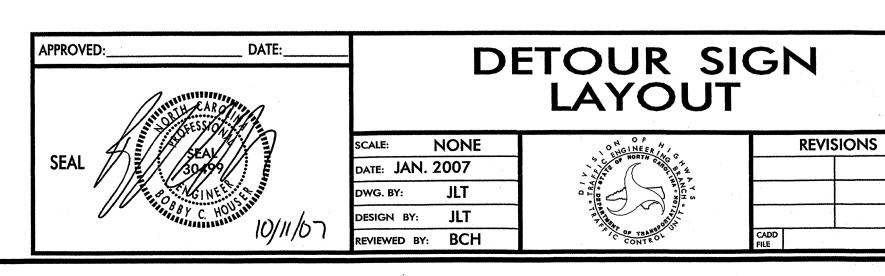






W.B.S. REFERENCE NO. SHEET NO. 37897-A TCP-10

VERTICAL STD #: SIGN NUMR: DET-1 TSv3.31 DESIGN BY: JLT CK BY: CLF SPACING **ORANGE** PROJECT ID: WBS 37897 DIV:12 DATE: 01/31/07 TYPE: **BACKG** 6.50 SPACE SIGN WIDTH: 42 INCHES MAJ. COPY SERIES: C 5.00 LINE 1 HEIGHT: 18 INCHES 11.5 ROUTE MARKERS: TOTALAREA: (S.F.) 5.25 6.50 SPACE BORDR TYPE: RECESSED 0.00 RECESS 0.38 INCHES WIDTH: 0.63 INCHES ARROW TYPES: 0.00 RADII: 1.50 INCHES 0.00 NO. Z BARS: #N/A VHB: MAT'L:0.080 " ALUMINUM LENGTH: #N/A INCHES 0.00 USE NO 1,4 0.00 1.Legend and border shall be direct applied non-reflective sheeting.
2.Legend and border shall be direct applied 0.00 non-reflective sheeting. 3. Shields shall be encapsulated lens reflective 0.00 sheeting on .032" aluminum and demountable. 0.00 4.Background shall be encapsulated lens refl. shtg. 5.Background shall be enclosed lens refl. sheeting. 0.00 6.Center arrow(s) vertically on sign. MOUNTED ON 2 U POST TOTAL: 18 0.00 SIZE/SERIES RT MARGIN SIGN COPY LT MARGIN CHAR: 5.00 INCH 5.79 3.79 2.74 4.10 3.58 4.03 3.13 4.10 2.07 2.89 0.00 0.00 0.00 0.00 0.00 TYPE:C 5.8 9.6 12.3 16.4 20.0 24.0 27.2 31.3 33.3 36.2 0.00 0.00 #/LC: 5.00 INCH 0.00 0.00 [X] SPCE: 1.00 FACTOR LINE 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 0.0 0.0



W.B.S. REFERENCE NO. SHEET NO.

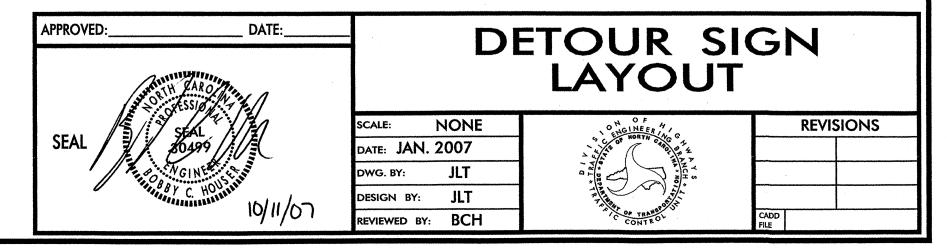
37897-A

MA12042R-A

TCP-11

SIGN NUMR: DET-3 TSv3.31 DESIGN BY: JLT CK BY: CLF STD #: **VERTICAL** SPACING TYPE: **BACKG ORANGE** PROJECT ID: WBS 37897 DIV:12 DATE: 01/23/07 5.13 SPACE 42 INCHES SIGN WIDTH: MAJ. COPY SERIES: C 5.00 LINE 1 **HEIGHT:** 24 INCHES TOTALAREA:(S.F.) 7.00 ROUTE MARKERS: 10.1 3.75 SPACE BORDR TYPE: RECESSED 5.00 LINE 2 RECESS 0.38 INCHES ARROW TYPES: WIDTH: 0.63 INCHES 18.9 5.13 SPACE RADII: 1.50 INCHES NO. Z BARS: #N/A 0.00 VHB: LENGTH: #N/A INCHES MAT'L:0.080 " ALUMINUM 0.00 USE NO 1,4 0.00 1.Legend and border shall be direct applied non-reflective sheeting. 2.Legend and border shall be direct applied 0.00 non-reflective sheeting. 0.00 3. Shields shall be encapsulated lens reflective sheeting on .032" aluminum and demountable. 0.00 4.Background shall be encapsulated lens refl. shtg. 5.Background shall be enclosed lens refl. sheeting. 6.Center arrow(s) vertically on sign. MOUNTED ON 2 U POST 0.00

				•										TOTAL:	24	0.00
SIZE/SERIES	SIZE/SERIES LT MARGIN				SIGN COPY									RT	MARGIN	
CHAR: 5.00 INCH TYPE:C #/LC: 5.00 INCH SPCE: 1.00 FACTOR LINE 1	5.10 [x]	B 3.79 5.1 0.00 0.0	L 2.78 8.9 0.00 0.0	A 3.97 11.7 0.00 0.0	C 3.58 15.6 0.00 0.0	K 3.58 19.2 0.00 0.0	B 3.79 22.8 0.00 0.0	U 3.79 26.6 0.00 0.0	R 3.79 30.4 0.00 0.0	N 2.74 34.2 0.00 0.0	0.00 36.9 0.00 0.0	0.00 0.0 0.00 0.0	0.00 0.0 0.00 0.0	0.00 0.0 0.00 0.0	0.00 0.0 0.00 0.0	5.10 0.0
CHAR: 5.00 INCH TYPE:C #/LC: 5.00 INCH SPCE: 1.00 FACTOR LINE 1	[x]	\$ 3.58 0.00 0.0	C 3.58 3.6 0.00 0.0		0 3.73 11.9 0.00 0.0	0 3.94 14.7 0.00 0.0	L 2.50 18.6 0.00 0.0	4.10 21.1 0.00 0.0	R 3.79 25.2 0.00 0.0	D 2.74 29.0 0.00 0.0	0.00 31.7 0.00 0.0	0.00 0.0 0.00 0.0	0.00 0.0 0.00 0.0	0.00 0.0 0.00 0.0	0.00 0.0 0.00 0.0	10.25 0.0



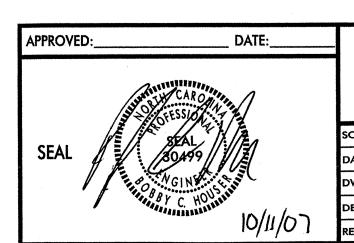
W.B.S. REFERENCE NO. SHEET NO.

37897 - A

MA12042R - A

TCP - 12

VERTICAL CK BY: CLF STD #: SIGN NUMR: DET-2 TSv3.31 DESIGN BY: JLT SPACING **ORANGE** PROJECT ID: WBS 37897 DIV:12 DATE: 01/23/07 TYPE: **BACKG** 6.50 SPACE 54 INCHES SIGN WIDTH: MAJ. COPY SERIES: C 5.00 LINE 1 **HEIGHT:** 18 INCHES 11.5 **ROUTE MARKERS:** TOTALAREA: (S.F.) 6.75 6.50 SPACE BORDR TYPE: RECESSED 0.00 RECESS 0.38 INCHES WIDTH: 0.63 INCHES ARROW TYPES: 0.00 RADII: 1.50 INCHES 0.00 NO. Z BARS: #N/A VHB: LENGTH: #N/A INCHES MAT'L:0.125 " ALUMINUM 0.00 USE NO 1,4 1.Legend and border shall be direct applied 0.00 non-reflective sheeting.
2.Legend and border shall be direct applied 0.00 non-reflective sheeting. 3. Shields shall be encapsulated lens reflective 0.00 sheeting on .032" aluminum and demountable. 0.00 4.Background shall be encapsulated lens refl. shtg. 5.Background shall be enclosed lens refl. sheeting. 2 U POST 0.00 6.Center arrow(s) vertically on sign. MOUNTED ON TOTAL: 18 0.00 RT MARGIN SIZE/SERIES SIGN COPY LT MARGIN CHAR: 5.00 INCH 6.82 3.94 3.34 2.74 4.10 3.58 2.78 3.41 3.34 2.50 4.10 3.79 2.74 TYPE:C 0.00 0.00 6.8 10.8 14.1 16.8 20.9 24.5 27.3 30.7 34.1 36.6 40.7 44.4 47.2 0.0 #/LC: 5.00 INCH SPCE: 1.00 FACTOR 0.00 0.00 LINE 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 0.0 0.0



DETOUR SIGN LAYOUT

SCALE: NONE

DATE: JAN. 2007

DWG. BY: JLT

DESIGN BY: JLT

REVIEWED BY: BCH

