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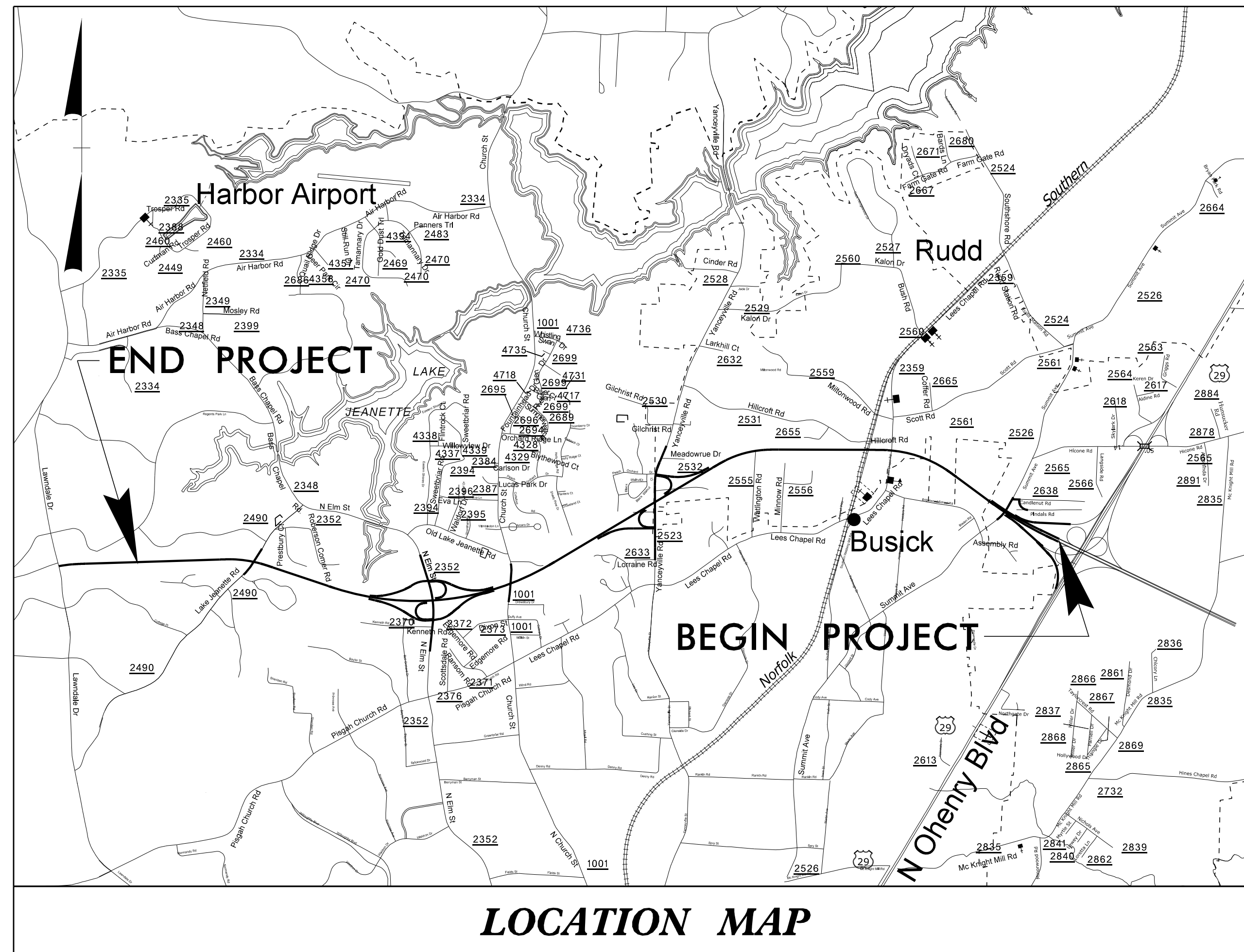
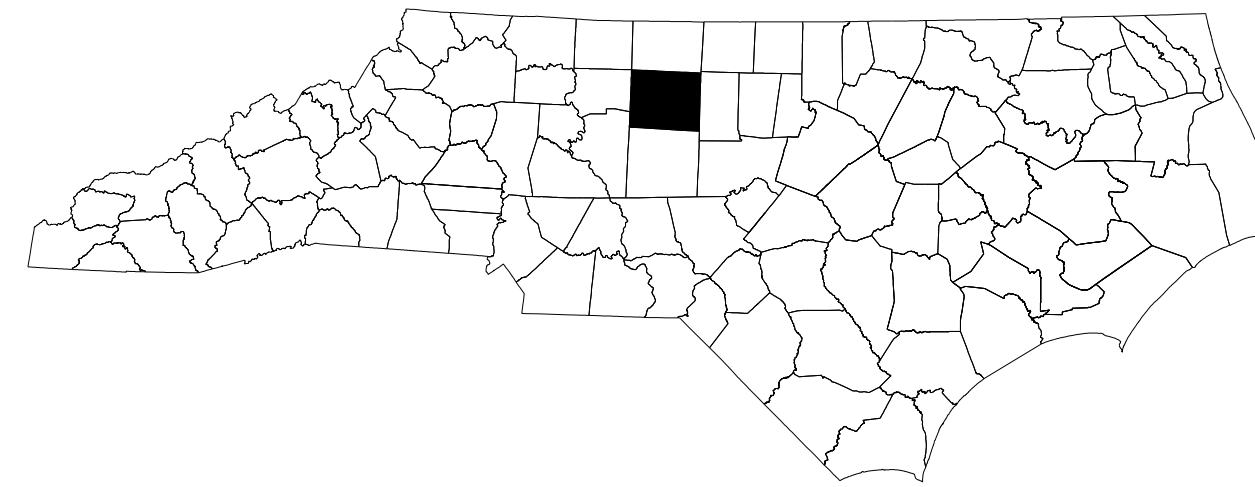
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

GUILFORD COUNTY



LOCATION MAP

LOCATION: GREENSBORO LOOP FROM US 29 NORTH OF GREENSBORO TO EAST OF LAWNDALE DRIVE

TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNALS, CULVERTS AND STRUCTURES

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 THRU TMP-1G	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES AND LOCAL NOTES)
TMP-2	PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
TMP-2A	TEMPORARY SHORING NOTES
TMP-2B	SPECIAL SIGN DESIGN(S)
TMP-2C & TMP-2D	OFF-SITE DETOURS
TMP-3 & TMP-3A	PROJECT OVERVIEW AND AREA DESCRIPTIONS
TMP-A1-1	AREA 1 PHASING
TMP-A1-2 THRU TMP-A1-4	AREA 1 DETAILS
TMP-A2-1	AREA 2 PHASING
TMP-A2-2 THRU TMP-A2-4	AREA 2 DETAILS
TMP-A3-1	AREA 3 PHASING
TMP-A3-2	AREA 3 DETAILS
TMP-A4-1 & TMP-A4-1A	AREA 4 PHASING
TMP-A4-2 THRU TMP-A4-6	AREA 4 DETAILS
TMP-A5-1	AREA 5 PHASING
TMP-A5-2 THRU TMP-A5-4	AREA 5 DETAILS
TMP-A6-1 & TMP-A6-1A	AREA 6 PHASING
TMP-A6-2 THRU TMP-A6-10	AREA 6 DETAILS
TMP-A7-1	AREA 7 PHASING
TMP-A7-2 THRU TMP-A7-4	AREA 7 DETAILS

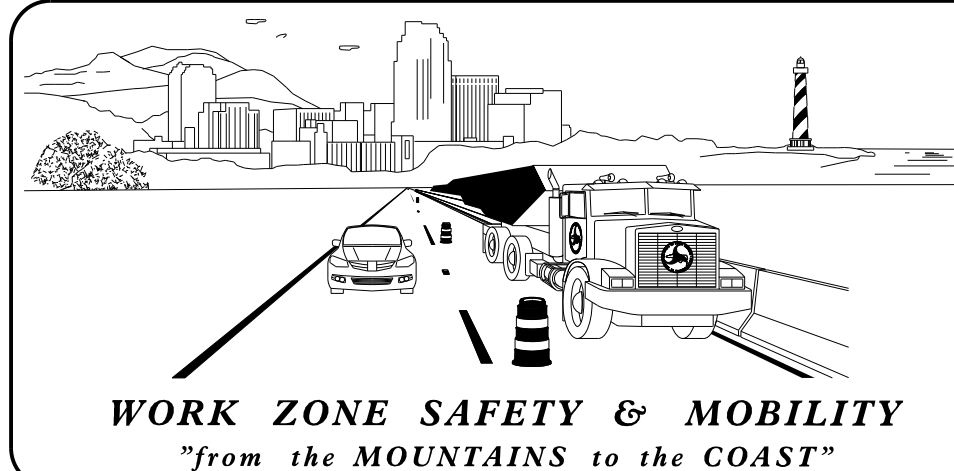
SHEET NO.

TMP-1

U-2525C

TIP PROJECT:

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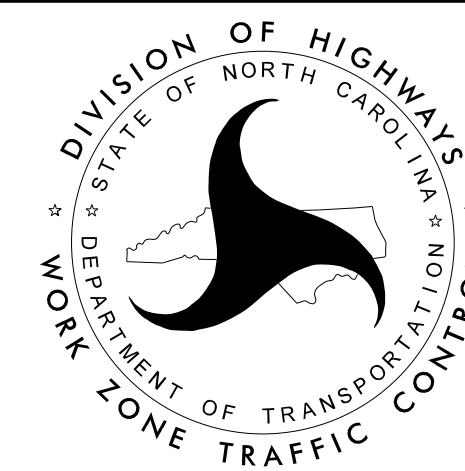
N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

JOSEPH E. HUMMER, P.E. STATE TRAFFIC MANAGEMENT ENGINEER

TBD TRAFFIC CONTROL PROJECT ENGINEER

SAMUEL COLEMAN, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER

DONALD E. RICHARDSON TRAFFIC CONTROL DESIGN ENGINEER



PLAN PREPARED FOR NCDOT BY:

BOB A. MAY, P.E. PROJECT ENGINEER

JESSE W. GILSTRAP TRAFFIC CONTROL ENGINEER

SCOTT L. KENNEDY TRAFFIC CONTROL ENGINEER

APPROVED: *Bob A. May*
DATE: 12/5/2017

SEAL

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ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 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
1101.06	WARNING SIGNS FOR BLASTING ZONES
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 MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
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
- ON GOING CONSTRUCTION
- PAVEMENT WEDGING

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TEMPORARY PAVEMENT MARKING

- COLD APPLIED PLASTIC 4" (TYPE 4) - REM. TAPE
- CA WHITE EDGELINE
- CF 10' YELLOW SKIP
- CH YELLOW SINGLE CENTER
- CI YELLOW DOUBLE CENTER
- PAINT (4")
- PA WHITE EDGELINE
- PB YELLOW EDGELINE
- PC 10' WHITE SKIP
- PD 3FT.-9FT./SP WHITE MINI-SKIP
- PE WHITE SOLID LANE LINE
- PF 10' YELLOW SKIP
- PH YELLOW SINGLE CENTER
- PI YELLOW DOUBLE CENTER
- P8 2FT.-6FT./SP WHITE MINI-SKIP
- P9 2FT.-6FT./SP YELLOW MINI-SKIP
- PAINT (8")
- PN WHITE GORE LINE
- PO WHITE DIAGONAL
- PP YELLOW DIAGONAL
- PQ WHITE CROSSWALK LINE

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

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<p>1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107</p>	<p>APPROVED <i>Edith A. May</i> DATE: 12/5/2017</p>			<p>ROADWAY STANDARD DRAWINGS & LEGEND</p>
	<p>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</p>			

MANAGEMENT STRATEGIES

CONSTRUCTION

CONSTRUCT PROPOSED GREENSBORO LOOP (-L-) ON NEW LOCATION WITH THE CONSTRUCTION OF TWO NEW INTERCHANGES AND UPGRADE/IMPROVE FIVE (5) -Y- LINES.

TMP DESIGN PARAMETERS

THIS PROJECT CONTAINS DAILY LANE CLOSURE RESTRICTIONS, RESTRICTIONS FOR HOLIDAYS & SPECIAL EVENTS AND HAULING RESTRICTITONS (SEE SHEETS TMP-1B AND TMP-1C).

THIS PROJECT IS DIVIDED INTO SEVEN AREAS (SEE SHEETS TMP-3 AND TMP-3A). THE CONTRACTOR MAY WORK AREAS SIMULTANEOUSLY AND/OR INDEPENDENTLY.

AREA 1: GREENSBORO LOOP (-L-)

MAJORITY OF -L- WILL BE CONSTRUCTED AWAY FROM TRAFFIC.

AREA 2: SUMMIT AVE. (-Y16-) BRIDGE

CONSTRUCTED UTILIZING ON-SITE DETOUR. PINDALS RD. (-Y17-) AND CANDLENUT RD. (-Y18-) SHALL BE CONSTRUCTED UTILIZING LANE CLOSURES.

AREA 3: LEES CHAPEL RD. (-Y1-) BRIDGE & NORFOLK SOUTHERN RXR BRIDGE

NIGHT TIME OFF-SITE DETOUR WILL BE UTILIZE TO PLACE GIRDERS OVER LEES CHAPEL RD. (-Y1-). NORFOLK SOUTHERN RAILROAD PROCEDURES WILL BE ADHERED TO FOR BRIDGE CONSTRUCTION OVER RAILROAD.

AREA 4: YANCEYVILLE RD. (-Y4-) INTERCHANGE

CONSTRUCTED UTILIZING ON-SITE DETOUR.

AREA 5: N. CHURCH ST. (-Y5-) BRIDGE

CONSTRUCTED UTILIZING ON-SITE DETOUR.

AREA 6: N. ELM ST. (-Y6-) INTERCHANGE

REDUCE TO A TEMPORARY FOUR-LANE, TWO-WAY TRAFFIC PATTERN AND UTILIZING WATER FILLED BARRIER BETWEEN WORK AREA & TRAFFIC. NIGHT TIME OFF-SITE DETOUR WILL BE UTILIZE TO PLACE GIRDERS OVER N. ELM ST (-Y6-). REMAINDER OF N. ELM ST. (-Y6-) CONSTRUCTION (WIDENING/WEDGING, MEDIAN & RESURFACING) WILL UTILIZE LANE CLOSURES.

AREA 7: LAKE JEANETTE RD. (-Y7-) BRIDGE

CONSTRUCTED UTILIZING ON-SITE DETOUR.

GENERAL NOTES / LOCAL NOTES

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

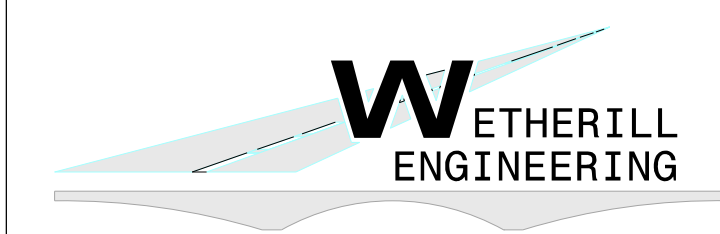
THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

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

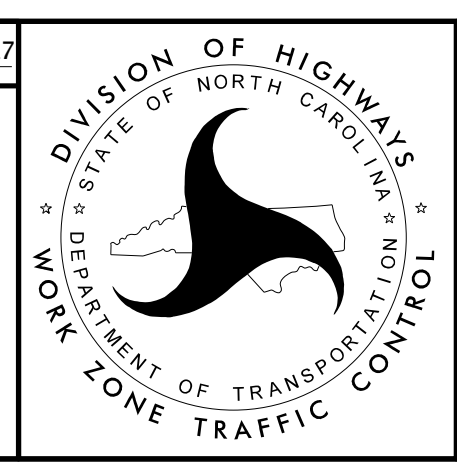
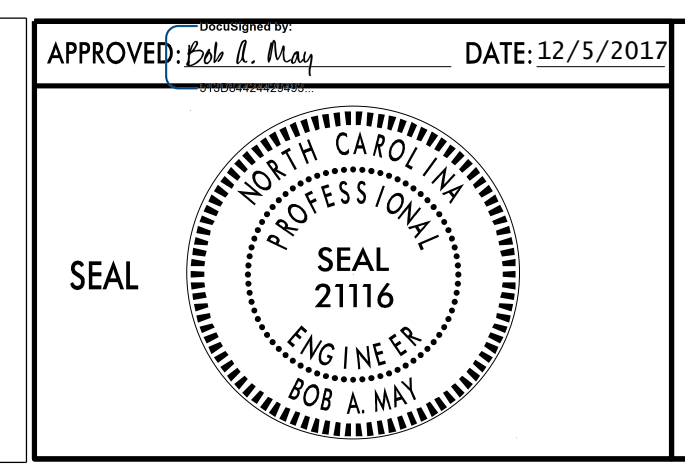
<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
1. US 29	MONDAY THROUGH FRIDAY 6:00 AM TO 8:00 PM SATURDAY AND SUNDAY 9:00 AM TO 8:00 PM
2. US 29 (2 LANES)	MONDAY THROUGH SUNDAY 6:00 AM TO 12:00 MIDNIGHT
3. LEES CHAPEL RD (-Y1-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
4. YANCEYVILLE RD. (-Y4-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
5. N. CHURCH ST. (-Y5-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
6. N. ELM ST. (-Y6-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
7. LAKE JEANETTE RD. (-Y7-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
8. SUMMIT AVE. (-Y16-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
9. LAWDALE DR.	MONDAY THROUGH SUNDAY 7:00 AM TO 7:00 PM
10. I-840/I-73, I-840, I-73 & I-73/US 421	MONDAY THROUGH FRIDAY 6:00 AM TO 8:00 PM SATURDAY AND SUNDAY 9:00 AM TO 8:00 PM
11. I-840/I-73, I-840 & I-73 (2 LANES)	MONDAY THROUGH SUNDAY 6:00 AM TO 12:00 MIDNIGHT
12. I-73 (3 LANES)	MONDAY THROUGH SUNDAY 5:00 AM TO 12:00 MIDNIGHT

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION



MANAGEMENT STRATEGIES AND GENERAL NOTES/ LOCAL NOTES

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GENERAL NOTES / LOCAL NOTES (CONT)

- | | | |
|-----|--|--|
| 13. | I-840/I-785 | MONDAY THROUGH FRIDAY
6:00 AM TO 8:00 PM
SATURDAY AND SUNDAY
9:00 AM TO 8:00 PM |
| 14. | I-840/I-785 (2 LANES) | MONDAY THROUGH SUNDAY
6:00 AM TO 12:00 MIDNIGHT |
| 15. | BATTLEGROUND RD.
(US 220) | MONDAY THROUGH SUNDAY
7:00 AM TO 7:00 PM |
| 16. | JOSEPH M. BRYAN BLVD. | MONDAY THROUGH SUNDAY
6:00 AM TO 8:00 PM |
| 17. | W. FRIENDLY AVE. | MONDAY THROUGH FRIDAY
6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM |
| 18. | I-40/I-85,
I-40 & I-85 | MONDAY THROUGH FRIDAY
6:00 AM TO 8:00 PM
SATURDAY AND SUNDAY
9:00 AM TO 8:00 PM |
| 19. | I-40/I-85,
I-40 & I-85 (2 LANES) | MONDAY THROUGH SUNDAY
6:00 AM TO 12:00 MIDNIGHT |
| 20. | I-40/I-85 BUS,
I-85 BUS &
I-85 BUS/US 29/US 70 | MONDAY THROUGH FRIDAY
6:00 AM TO 8:00 PM
SATURDAY AND SUNDAY
9:00 AM TO 8:00 PM |
| 21. | I-40/I-85 BUS &
I-85 BUS (2 LANES) | MONDAY THROUGH SUNDAY
6:00 AM TO 12:00 MIDNIGHT |
| 22. | I-40/US 220,
US 220 &
US 220/US 29/US 70 | MONDAY THROUGH FRIDAY
6:00 AM TO 8:00 PM
SATURDAY AND SUNDAY
9:00 AM TO 8:00 PM |
| 23. | FREEMAN MILL RD. &
RANDLEMAN RD. | MONDAY THROUGH FRIDAY
6:00 AM TO 8:00 PM
SATURDAY AND SUNDAY
9:00 AM TO 8:00 PM |
| 24. | US 70 | MONDAY THROUGH FRIDAY
6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM |
| 25. | HUFFINE MILL RD. | MONDAY THROUGH FRIDAY
6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM |

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

ROAD NAME

1. US 29
2. I-840/I-73, I-840, I-73 & I-73/US 421
3. I-840/I-785
4. BATTLEGROUND RD. (US 220)
5. JOSEPH M. BRYAN BLVD.
6. I-40/I-85, I-40 & I-85
7. I-40/I-85 BUS, I-85 BUS & I-85 BUS/US 29/US 70

8. I-40/US 220, US 220 & US 220/US 29/US 70

9. FREEMAN MILL RD. & RANDLEMAN RD.

HOLIDAY

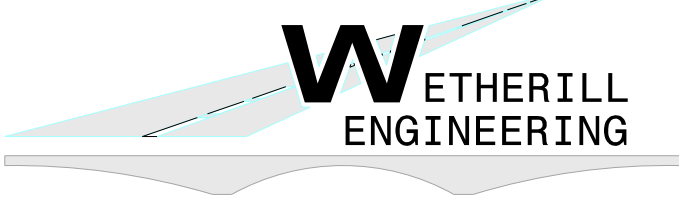
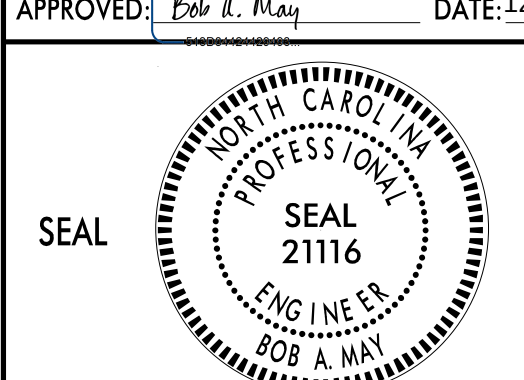

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATE UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 AM DECEMBER 31st TO 8:00 PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 PM THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 AM THURSDAY AND 8:00 PM MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY TO 8:00 PM TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 AM THE DAY BEFORE INDEPENDENCE DAY AND 8:00 PM THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 6:00 AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 PM THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY AND 8:00 PM TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 AM TUESDAY TO 8:00 PM MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. FOR WYNDHAM GOLF TOURNAMENT (TYPICAL HELD IN AUGUST), BETWEEN THE HOURS OF 6:00 AM THE FRIDAY BEFORE THE WEEK OF THE TOURNAMENT AND 8:00 PM THE FOLLOWING MONDAY AFTER THE WEEK OF THE TOURNAMENT.
10. FOR THE MARTINSVILLE NASCAR CUP RACE (TYPICAL HELD IN LATE MARCH & LATE OCTOBER), BETWEEN THE HOURS OF 6:00 AM THE FRIDAY BEFORE THE RACE AND 8:00 PM THE FOLLOWING MONDAY AFTER THE RACE.

C) DO NOT CLOSE ROADS AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
1. LEES CHAPEL RD. (-Y1-)	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT
2. N. ELM ST. (-Y6-)	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT

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 <p>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</p>	1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	APPROVED: <u>Bob A. May</u> DATE: <u>12/5/2017</u>			<h3>GENERAL NOTES/ LOCAL NOTES</h3>
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GENERAL NOTES / LOCAL NOTES (CONT)

D) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
1. NB US 29	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR OVERHEAD SIGNS INSTALLATION
2. SB US 29	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR OVERHEAD SIGNS INSTALLATION
3. LEES CHAPEL RD. (-Y1-)	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR GIRDER INSTALLATION
4. N. ELM ST. (-Y6-)	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR GIRDER INSTALLATION
5. LAWDALE DR.	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR OVERHEAD SIGNS INSTALLATION
6. I-840/I-73, I-73, I-840 & I-73/US 421	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR OVERHEAD SIGNS INSTALLATION
7. I-840/I-785	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR OVERHEAD SIGNS INSTALLATION
8. BATTLEGROUND RD. (US 220)	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR OVERHEAD SIGNS INSTALLATION
9. JOSEPH M. BRYAN BLVD.	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR OVERHEAD SIGNS INSTALLATION
10. W. FRIENDLY AVE	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR OVERHEAD SIGNS INSTALLATION
11. I-40/I-85, I-40 & I-85	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR OVERHEAD SIGNS INSTALLATION
12. I-40/I-85 BUS, I-85 BUS & I-85 BUS/US 29/US 70	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR OVERHEAD SIGNS INSTALLATION
13. I-40/US 220, US 220 & US 220/US 29/US 70	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR OVERHEAD SIGNS INSTALLATION
14. FREEMAN MILL RD. & RANDLEMAN RD.	MONDAY THROUGH SUNDAY, 5:00 AM TO 12:00 MIDNIGHT	30 MINUTES FOR OVERHEAD SIGNS INSTALLATION

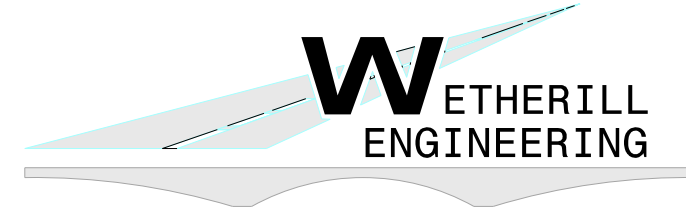

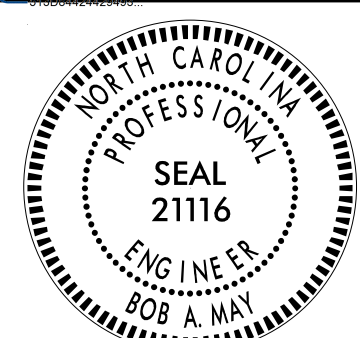
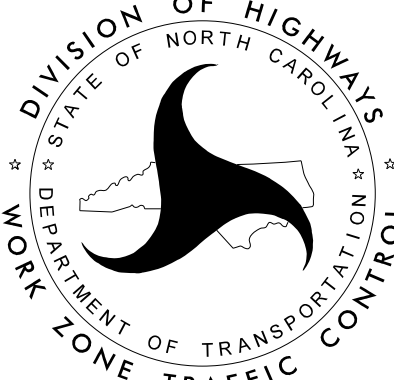
E) DO NOT CONDUCT SINGLE VEHICLE HAULING AS FOLLOWS; INGRESS AND EGRESS FROM RAMPS WILL BE ALLOWED:

ROAD NAME	DAY AND TIME RESTRICTIONS
1. US 29 (-Y13-)	MONDAY THROUGH FRIDAY 6:00 AM TO 8:00 PM SATURDAY AND SUNDAY 9:00 AM TO 8:00 PM
2. LEES CHAPEL RD (-Y1-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
3. YANCEYVILLE RD. (-Y4-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
4. N. CHURCH ST. (-Y5-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
5. N. ELM ST. (-Y6-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
6. LAKE JEANETTE RD. (-Y7-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
7. SUMMIT AVE. (-Y16-) (-Y7-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
8. LAWDALE DR.	MONDAY THROUGH SUNDAY 6:00 AM TO 8:00 AM & 5:00 PM TO 8:00 PM

F) DO NOT CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS; INGRESS AND EGRESS FROM RAMPS WILL BE ALLOWED:

ROAD NAME	DAY AND TIME RESTRICTIONS
1. US 29 (-Y13-)	MONDAY THROUGH FRIDAY 6:00 AM TO 8:00 PM SATURDAY AND SUNDAY 9:00 AM TO 8:00 PM
2. LEES CHAPEL RD (-Y1-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
3. YANCEYVILLE RD. (-Y4-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
4. N. CHURCH ST. (-Y5-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
5. N. ELM ST. (-Y6-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
6. LAKE JEANETTE RD. (-Y7-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
7. SUMMIT AVE. (-Y16-) (-Y7-)	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM & 4:00 PM TO 7:00 PM
8. LAWDALE DR.	MONDAY THROUGH SUNDAY 5:00 AM TO 9:00 PM

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 WETHERILL ENGINEERING TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION	1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	APPROVED  DATE: 12/5/2017 SEAL 		<h3>GENERAL NOTES/ LOCAL NOTES</h3>
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GENERAL NOTES / LOCAL NOTES (CONT)

- G) 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

- H) 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.
- I) 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.
- J) 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.

- K) 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.
- L) 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.
- M) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- N) 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 A 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.

- O) 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) 200 FT. IN ADVANCE AND A MINIMUM OF ONCE EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- Q) 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.
- R) 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.

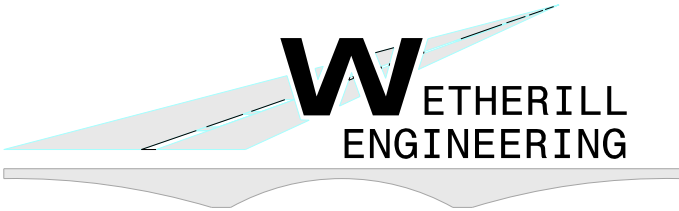
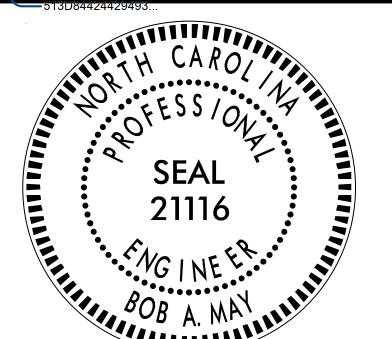

- S) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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

- U) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FT. IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

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 <p>WETHERILL ENGINEERING</p> <p>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</p>	<p>1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107</p>	<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p> <p>APPROVED: <u>Bob A. May</u> DATE: 12/5/2017</p>			<h2 style="margin: 0;">GENERAL NOTES/ LOCAL NOTES</h2>
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GENERAL NOTES / LOCAL NOTES (CONT)

TRAFFIC BARRIER

- V) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRAFFIC CONTROL 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 TRAFFIC CONTROL 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 TRAFFIC CONTROL 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.

- W) 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 IMPACT 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:

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

- X) 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.
- Y) PLACE TYPE III BARRICADES WITH "ROAD CLOSED" SIGN R11-2 ATTACHED OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- Z) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 200 FT. CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
1. ALL ROADS	PAINT	TEMPORARY RAISED
2. PROPOSED/EXISTING BRIDGES AND EXISTING CONCRETE PAVEMENT	COLD APPLIED PLASTIC TYPE IV (REMOVABLE TAPE)	TEMPORARY RAISED

- BB) 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.

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

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

- EE) TRACE THE (EXISTING AND/OR PROPOSED) MONOLITHIC ISLAND LOCATIONS WITH THE PROPER COLOR PAVEMENT MARKING PRIOR TO (REMOVAL AND/OR INSTALLATION). PLACE DRUMS TO DELINEATE ANY (EXISTING AND/OR PROPOSED) MONOLITHIC ISLANDS (AFTER REMOVAL AND/OR BEFORE INSTALLATION).

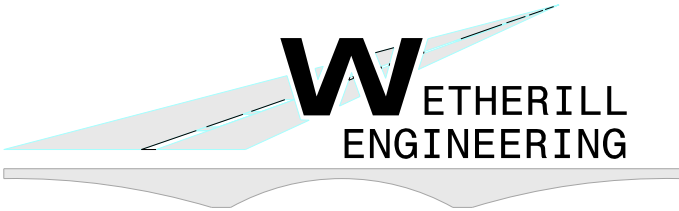
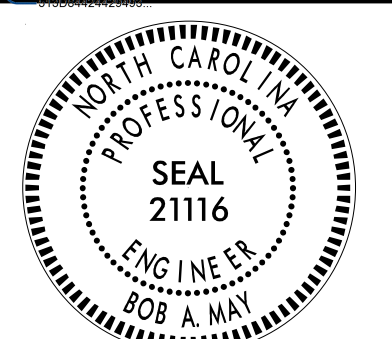

MISCELLANEOUS

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

- GG) 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.

- HH) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIME 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.).

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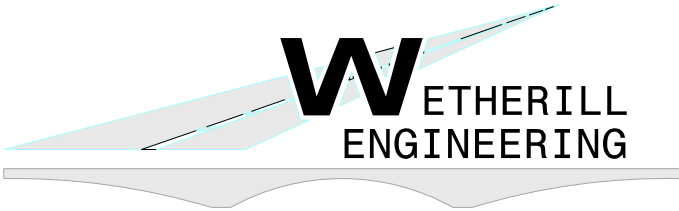
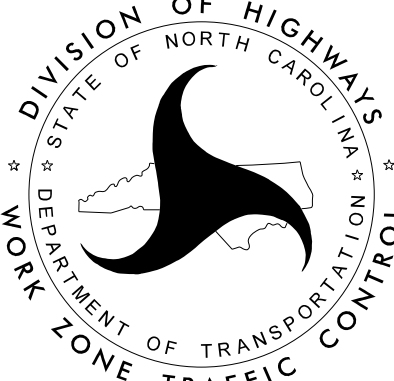
 <p>WETHERILL ENGINEERING</p> <p>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</p>	<p>1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107</p>	<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p> <p>APPROVED: <i>Bob A. May</i> DATE: 12/5/2017</p>			<h2 style="margin: 0;">GENERAL NOTES/ LOCAL NOTES</h2>
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PROJ. REFERENCE NO.	SHEET NO.
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GENERAL NOTES / LOCAL NOTES (CONT)

- II) WHEN CONSTRUCTING DRAINAGE STRUCTURES ADJACENT TO TRAFFIC, INSTALL TEMPORARY STEEL PLATES, AS DIRECTED BY THE ENGINEER. MAY WORK EACH LOCATION INDEPENDENTLY OR CONCURRENTLY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. WORK IN A CONTINUOUS MANNER TO PERFORM THE WORK IN THE FOLLOWING SEQUENCE, IN STEPS '1' THRU '5'.
- 1: CLOSE THE APPROPRIATE TRAVEL LANE TO TRAFFIC USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEETS 1, 2, 3, 7, 8, 9 & 10 OF 15.
 - 2: CONSTRUCT PROPOSED STRUCTURE OR INSTALL PRE-CAST DRAINAGE STRUCTURE AS SHOWN IN THE CONSTRUCTION PLANS AND COVER WITH STEEL PLATES TO PROTECT STRUCTURE DURING CURING.
 - 3: OPEN TRAVEL LANE TO EXISTING TRAFFIC PATTERN BY THE END OF EACH WORK PERIOD.
 - 4: WHEN PROPERLY CURED, CLOSE THE APPROPRIATE TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1, 2, 3, 7, 8, 9 & 10 OF 15. BACKFILL & PAVE, IF REQUIRED, UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT (SEE CONSTRUCTION PLANS).
 - 5: OPEN TRAVEL LANE TO EXISTING TRAFFIC PATTERN BY THE END OF THE WORK PERIOD.
- JJ) CONSTRUCT ALL PAVEMENT (TEMPORARY AND/OR PROPOSED) TO MAINTAIN DRAINAGE AND NOT POND WATER IN THE TRAFFIC LANES.
- KK) TEMPORARY PAVEMENT MAY BE UTILIZED IN THE CONSTRUCTION OF THE PROPOSED AS DIRECTED BY THE ENGINEER.
- LL) PLACE TRAFFIC BACK INTO EXISTING PATTERN AT THE END OF EACH WORK PERIOD.
- MM) PLACE TYPE III BARRICADES & DRUMS AT ALL -Y- LINES AND DRUMS AT ALL DRIVEWAYS TO KEEP PROPOSED/TEMPORARY WIDENING CLOSED TO TRAFFIC.
- NN) TEMPORARY SHORING MAY BE ADJUSTED SO AS NOT TO CONFLICT WITH EXISTING UTILITIES AS DIRECTED BY THE ENGINEER.
- OO) INSTALL TWO (2) CHANGEABLE MESSAGE SIGNS (CMS) ON N. ELM ST. (-Y6-) AS DIRECTED BY THE ENGINEER. THESE CHANGEABLE MESSAGES SIGNS ARE TO BE UTILIZED TO INFORM & ALERT THE TRAVELING PUBLIC TO TRAFFIC CONDITIONS AND MAY BE UTILIZED FOR TRAFFIC CONTROL OPERATIONS DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- PP) PROTECT PEDESTRIANS FROM FALLING DEBRIS ON PROPOSED SIDEWALKS BENEATH THE PROPOSED GREENSBORO LOOP (-L-) BRIDGES OVER N. ELM ST. (-Y6-) DURING CONSTRUCTION (SEE SPECIAL PROVISIONS).

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 <p style="font-size: x-small;">TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</p>	<p style="font-size: x-small;">1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107</p>	<p style="font-size: x-small;">APPROVED <u>Bob A. May</u> DATE: 12/5/2017</p> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 60px; margin: auto;"> <p style="font-size: x-small; text-align: center;">SEAL</p> <p style="font-size: x-small; text-align: center;">NORTH CAROLINA PROFESSIONAL ENGINEER 21116 BOB A. MAY</p> </div>		<p style="font-size: x-small;">GENERAL NOTES/ LOCAL NOTES</p>

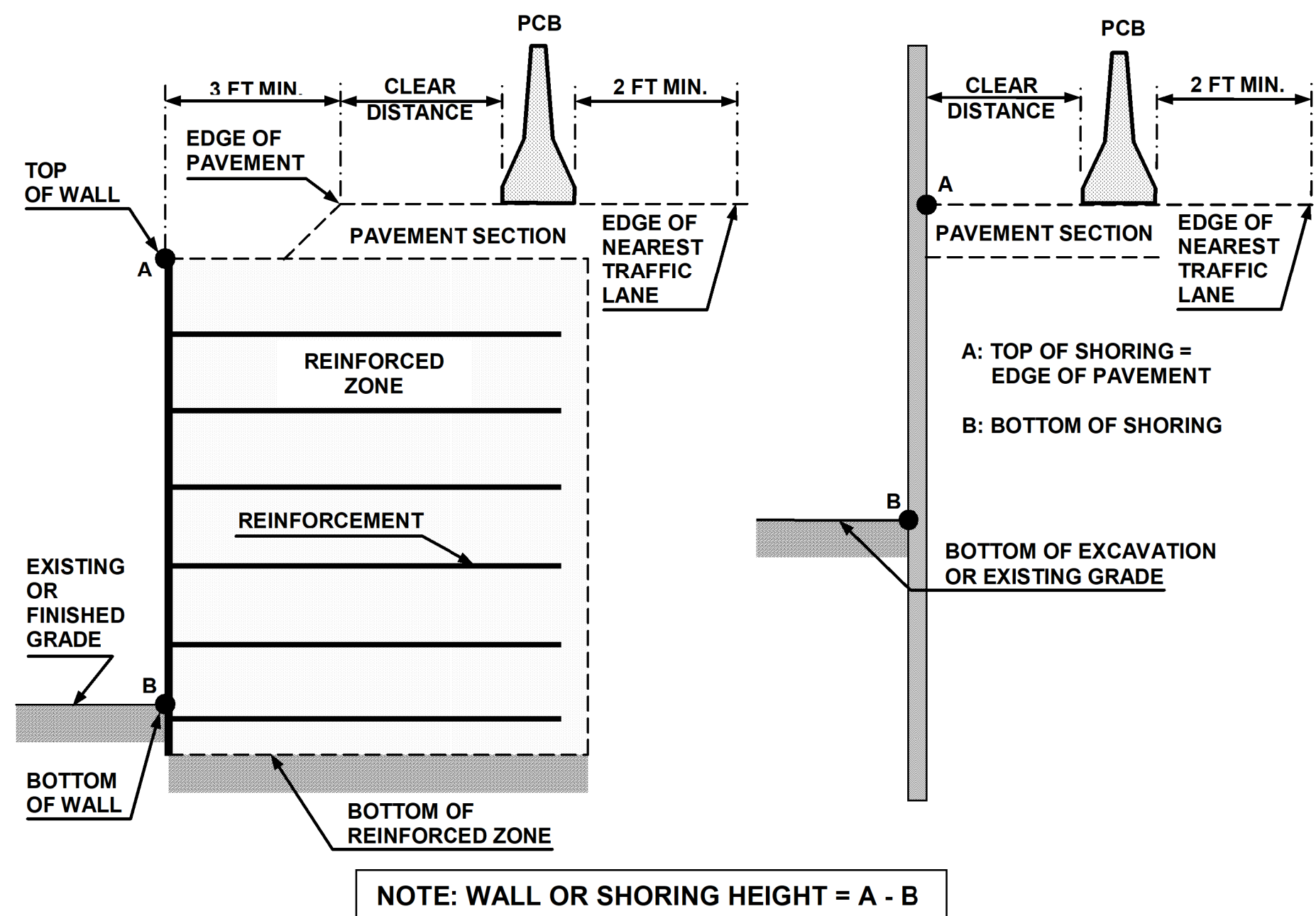


FIGURE A

NOTES

- REFER TO THE TRAFFIC CONTROL PLANS FOR TEMPORARY SHORING LOCATIONS AND NOTES.
- REFER TO THE "TEMPORARY SHORING" PROJECT SPECIAL PROVISION FOR INFORMATION ABOUT TEMPORARY SHORING AND PORTABLE CONCRETE BARRIER (PCB).
- 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).
- 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.
- 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.
- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.
- PCB REQUIREMENTS FOR TEMPORARY WALLS APPLY TO TEMPORARY MECHANICALLY STABILIZED EARTH (MSE) WALLS AND TEMPORARY SOIL NAIL WALLS.
- 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.
- 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.
- 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

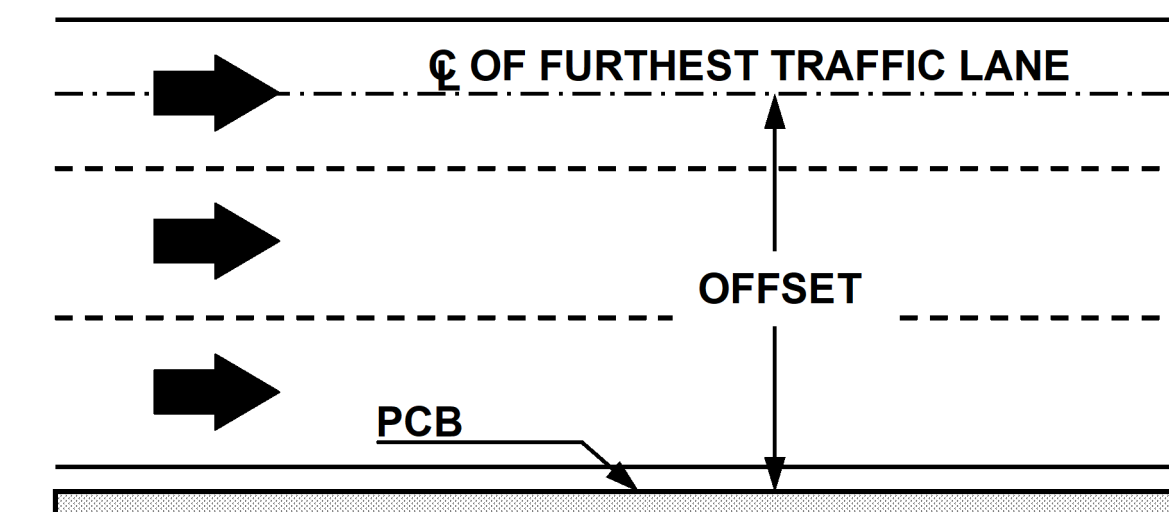


FIGURE B

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APPROVED: *Bob A. May* DATE: 12/5/2017

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 21116 BOB A. MAY

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

PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS

THE NCDOT GEOTECHNICAL UNIT RECOMMENDS THE FOLLOWING NOTES FOR THE PROPOSED SHORING LOCATIONS:

SHORING LOCATION NO. 1

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

DESIGN TEMPORARY SHORING FROM STATION 14+65 +/- -Y4DET-, 21 FT. RIGHT, TO STATION 17+85 +/- -Y4DET-, 21 FT. RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma' = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF
 GROUNDWATER ELEVATION = 833.50 +/- FT.

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

LIMIT SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 14+65 +/- -Y4DET-, 21 FT. RIGHT, TO STATION 17+85 +/- -Y4DET-, 21 FT. RIGHT. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

SHORING LOCATION NO. 2

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

DESIGN TEMPORARY SHORING FROM STATION 13+00 +/- -Y5DET-, 22 FT. RIGHT, TO STATION 16+30 +/- -Y5DET-, 22 FT. RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma' = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF
 GROUNDWATER ELEVATION = N/A

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

LIMIT SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 13+00 +/- -Y5DET-, 22 FT. RIGHT, TO STATION 16+30 +/- -Y5DET-, 22 FT. RIGHT. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

SHORING LOCATION NO. 3

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

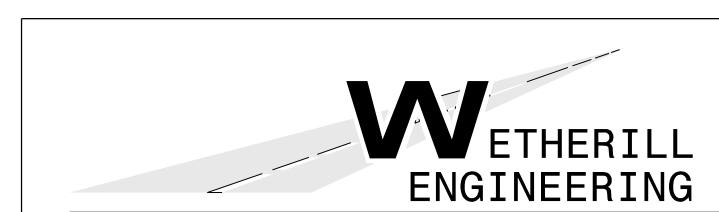
DESIGN TEMPORARY SHORING FROM STATION 14+00 +/- -Y7DET-, 21 FT. RIGHT, TO STATION 15+40 +/- -Y7DET-, 21 FT. RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma' = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF
 GROUNDWATER ELEVATION = N/A

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

LIMIT SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 14+00 +/- -Y7DET-, 21 FT. RIGHT, TO STATION 15+40 +/- -Y7DET-, 21 FT. RIGHT. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE NCDOT GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO NCDOT/WZTC ON JUNE 22, 2017 AND SEALED BY A PROFESSIONAL ENGINEER, DAVID L. TEAGUE, P.E., LICENSE NO. 027869.

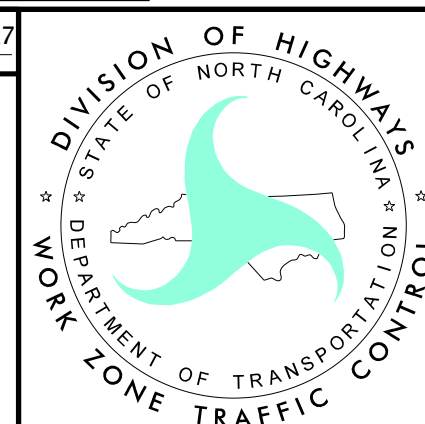
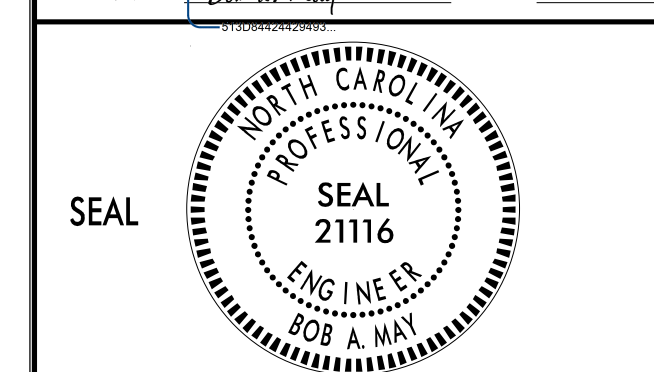


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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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

APPROVED: Bob A. May DATE: 12/5/2017



**TEMPORARY
 SHORING
 NOTES**

SIGN NUMBER: name	BACKG COLOR: Fluorescent Orange	DESIGN BY: CLM	CHECKED BY: JWG	DATE: Dec 29, 2015
TYPE: STATIONARY	COPY COLOR: Black	PROJECT ID: U-2525C	DIV: 7	
QUANTITY: SEE PLANS				
SIGN WIDTH: 3'-6"				
HEIGHT: 1'-6"				
TOTAL AREA: 5.3 Sq.Ft.				
BORDER TYPE: INSET				
RECESS: 0.38"				
WIDTH: 0.44"				
RADII: 1.5"				
NO. Z BARS:	MAT'L: 0.080" (2.0 mm) ALUMINUM			
LENGTH:				
USE NOTES: 1,2				
1. Legend and border shall be direct applied black non-reflective sheeting.				
2. Background shall be NC GRADE B fluorescent orange retroreflective sheeting.				

BORDER
R=1.5"
TH=0.44"
IN=0.38"

Spacing Factor is 1 unless specified otherwise

Letter spacings are to start of next letter											Series/Size Text Length		
L	e	e	s	C	h	a	p	e	l			D 2000 35.1	
3.5	3.5	3.5	3.3	2.3	2.5	4.4	3.7	3.8	3.6	3.7	0.8	3.4	
R	o	a	d										D 2000 14.2
13.9	3.9	3.6	3.6	3	13.9								

FILENAME: Guidesign6 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: SP-2	BACKG COLOR: Fluorescent Orange	DESIGN BY: CLM	CHECKED BY: JWG	DATE: Dec 29, 2015
TYPE: STATIONARY	COPY COLOR: Black	PROJECT ID: U-2525C	DIV: 7	
QUANTITY: SEE PLANS				
SIGN WIDTH: 2'-6"				
HEIGHT: 1'-0"				
TOTAL AREA: 2.5 Sq.Ft.				
BORDER TYPE: INSET				
RECESS: 0.38"				
WIDTH: 0.38"				
RADII: 1.88"				
NO. Z BARS:	MAT'L: 0.080" (2.0 mm) ALUMINUM			
LENGTH:				
USE NOTES: 1,2				
1. Legend and border shall be direct applied black non-reflective sheeting.				
2. Background shall be NC GRADE B fluorescent orange retroreflective sheeting.				

BORDER
R=1.88"
TH=0.38"
IN=0.38"

Spacing Factor is 1 unless specified otherwise

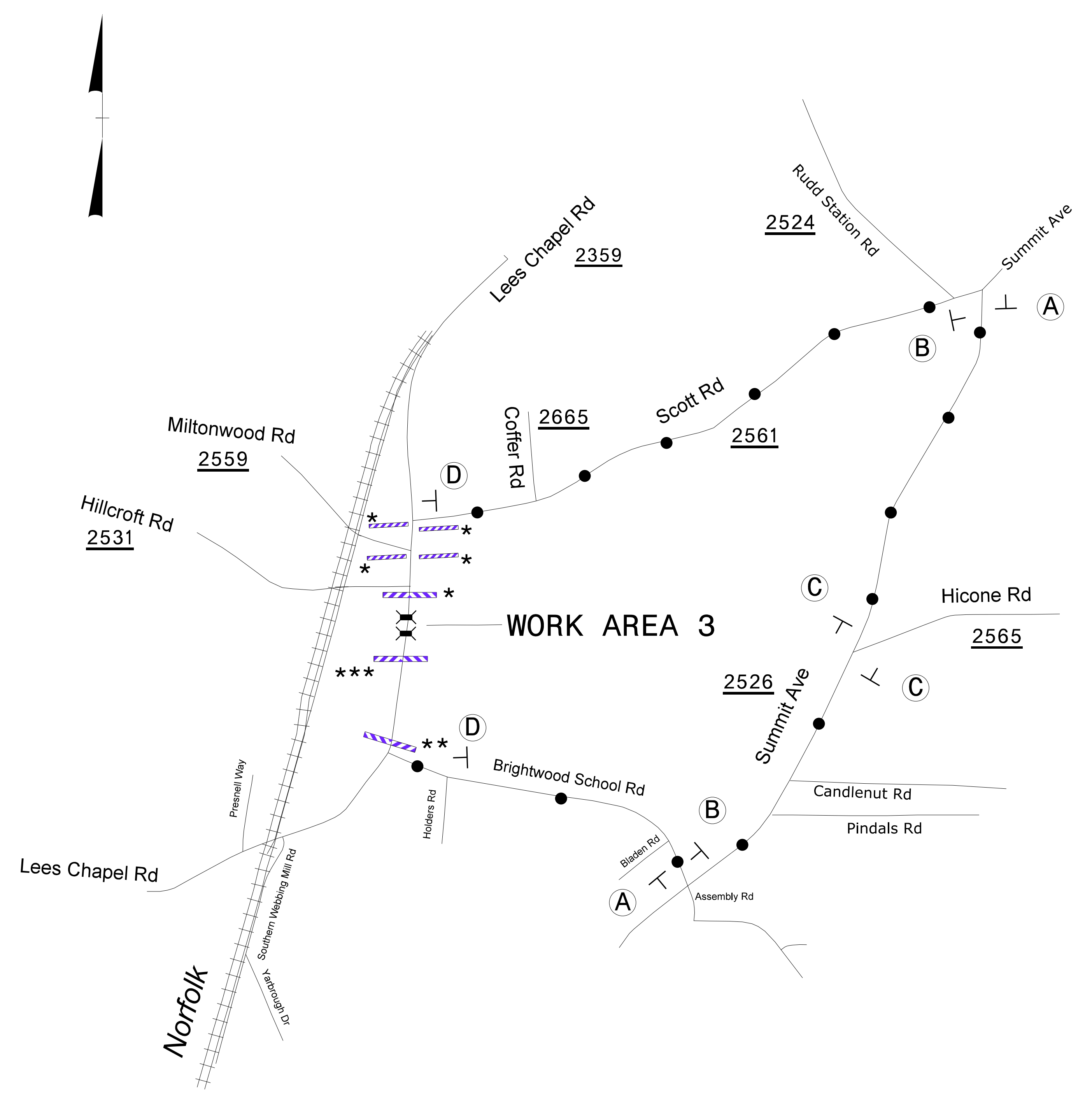
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N	E	l	m	S	t						D 2000 24.7
2.7	3.4	2.5	3.8	1.8	4.9	2.5	3.7	2	2.7		

FILENAME: Guidesign6 NORTH CAROLINA D.O.T. SIGN DETAIL

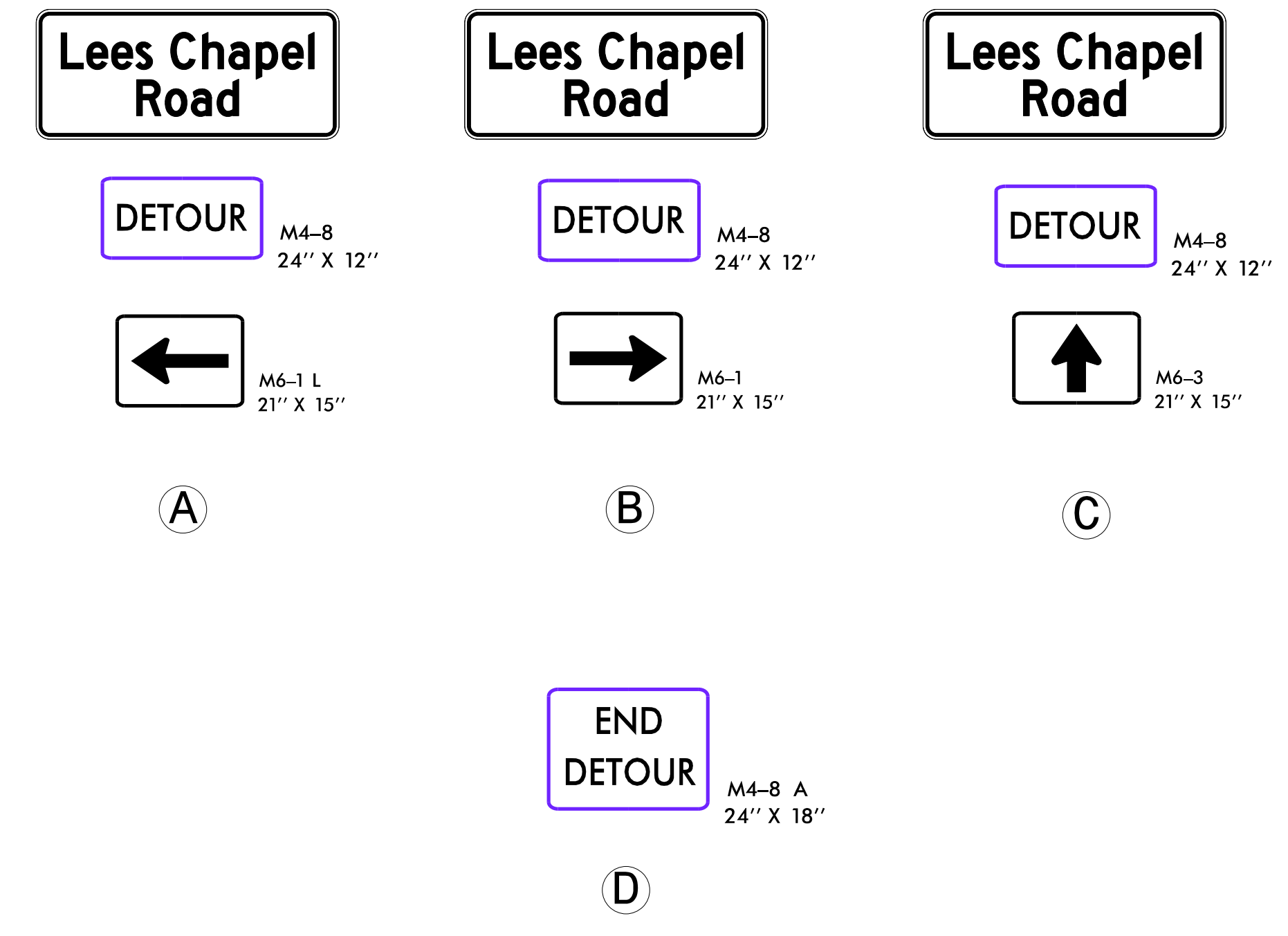
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED				SPECIAL SIGN DESIGN(S)
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OFF-SITE DETOUR WHEN LEE'S CHAPEL RD.
IS CLOSED FOR PLACING BRIDGE GIRDERS.



DETOUR SIGNING



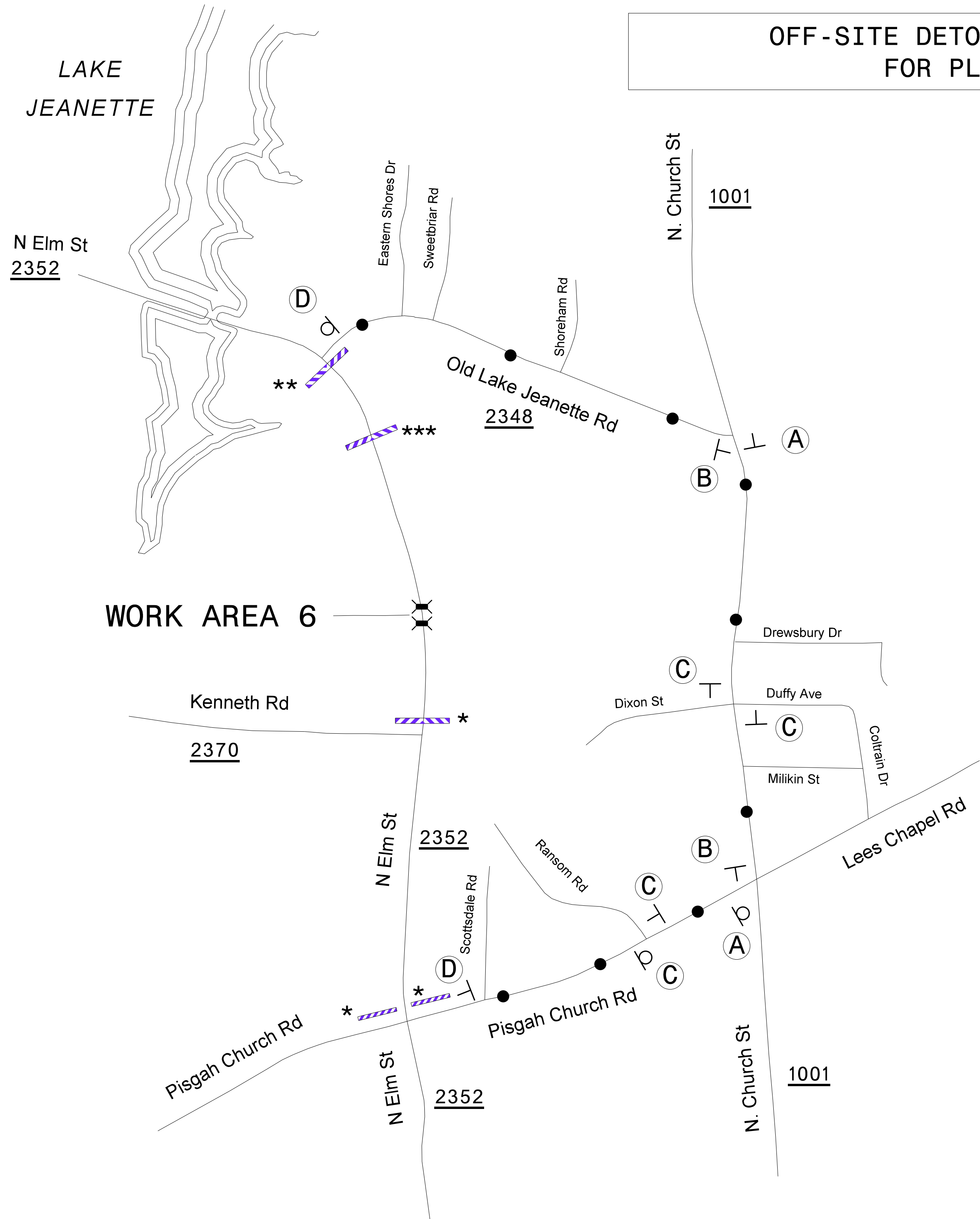
- NOTES: SEE TMP-2B FOR "LEES CHAPEL RD" SPECIAL SIGN DESIGN.
ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
- * SEE RSD 1101.03, SHEET 1 OF 9, FOR TYPE III BARRICADE LOCATION WITH ATTACHED SIGNING & ADDITIONAL SIGNING FOR ROAD CLOSURE.
 - ** SEE RSD 1101.03, SHEET 2 OF 9, FOR TYPE III BARRICADE LOCATION WITH ATTACHED SIGNING & ADDITIONAL SIGNING FOR ROAD CLOSURE.
 - *** INSTALL TYPE III BARRICADE, AS DIRECTED BY THE ENGINEER, TO MAINTAIN ACCESS TO DRIVEWAYS AND FIRE STATION.

DETOUR ROUTE ● ● ●

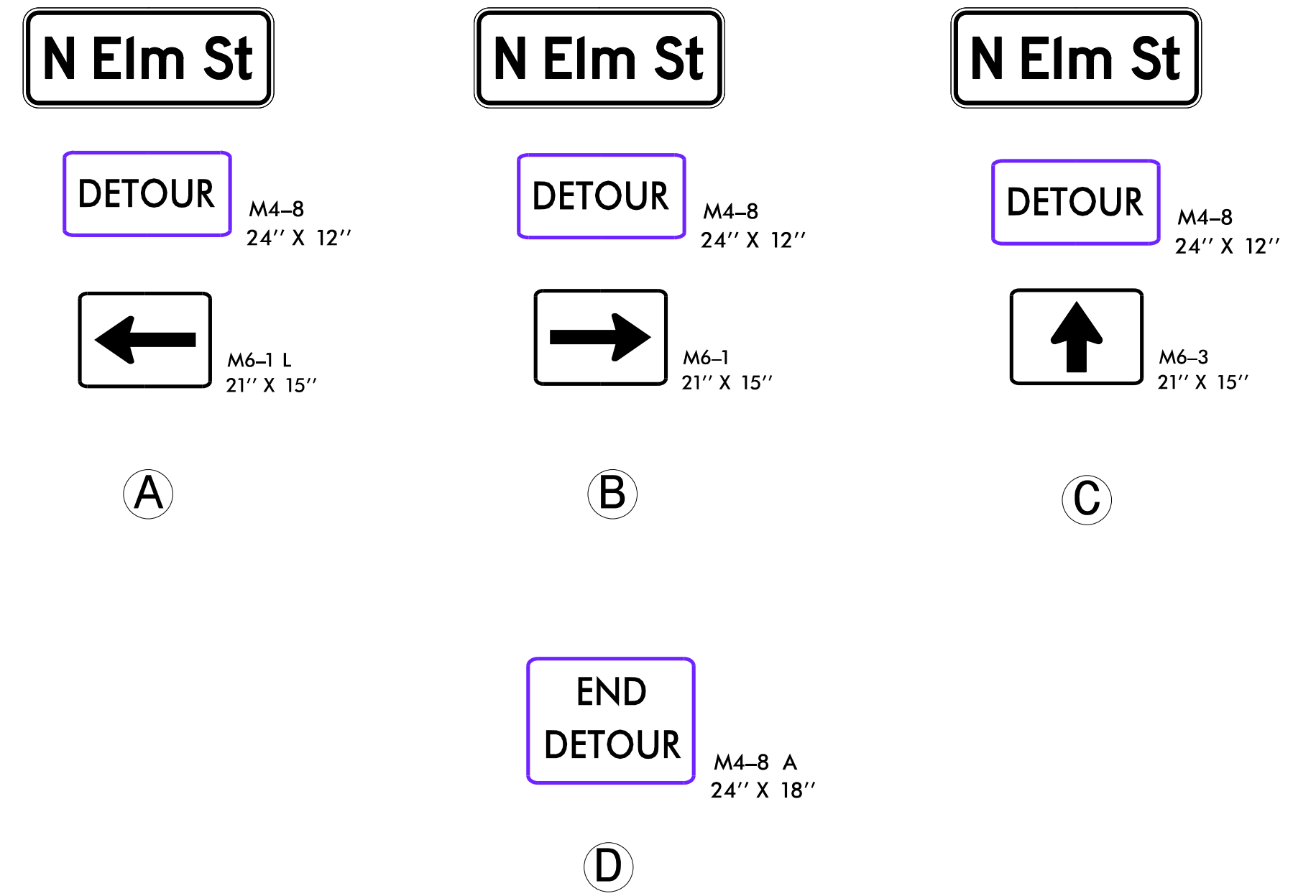
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<p>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</p>	<p>1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107</p>	<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p> <p>APPROVED: <i>Bob A. May</i> DATE: 12/5/2017</p> <p>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER 21116 BOB A. MAY</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>DETOUR LEES CHAPEL RD. (-Y1-)</p>
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**OFF-SITE DETOUR WHEN N. ELM ST. IS CLOSED
FOR PLACING BRIDGE GIRDERS.**



DETOUR SIGNING



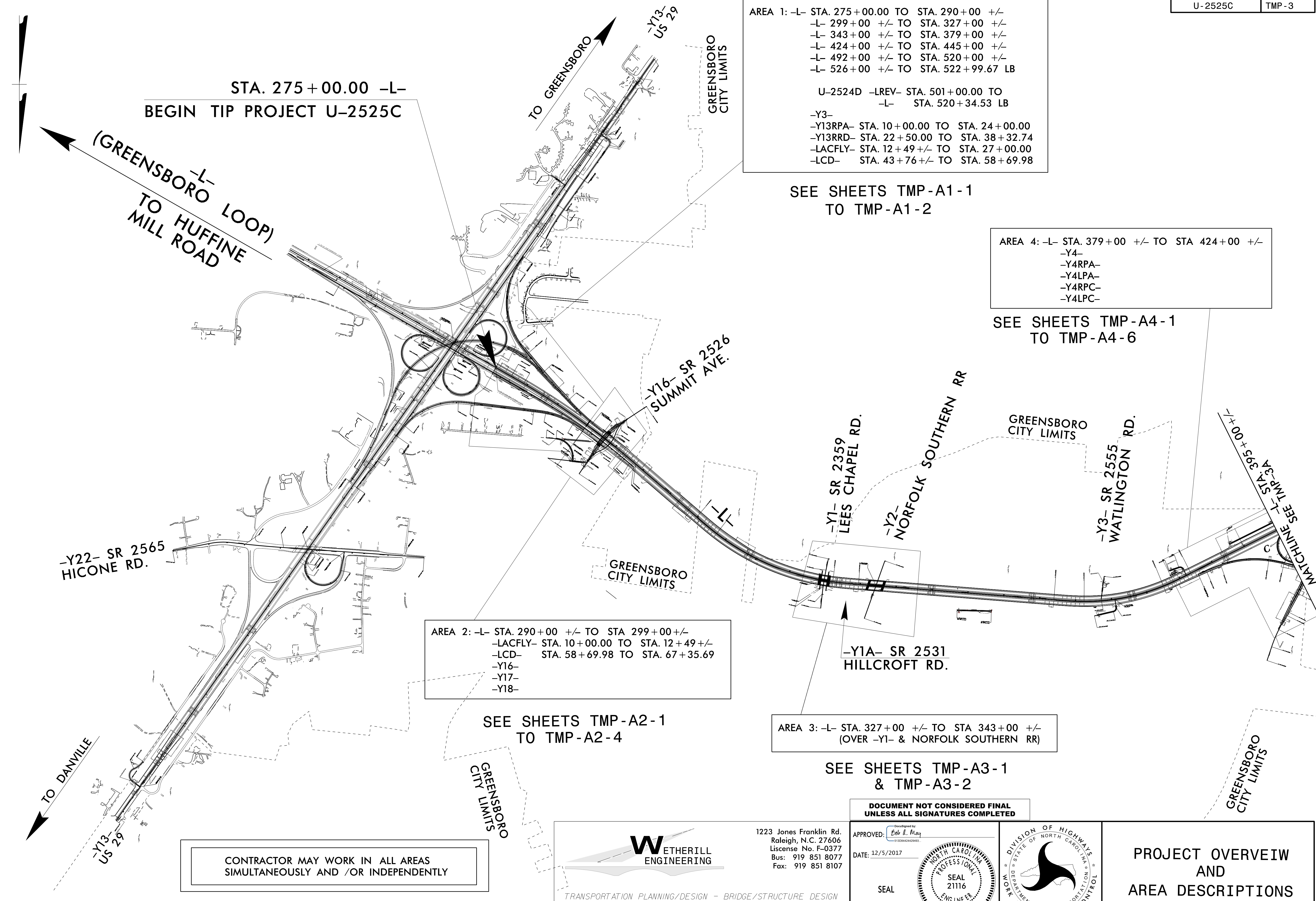
- NOTES: SEE TMP-2B FOR "N. ELM ST" SPECIAL SIGN DESIGN.
 ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
- * SEE RSD 1101.03, SHEET 1 OF 9, FOR TYPE III BARRICADE LOCATION WITH ATTACHED SIGNING & ADDITIONAL SIGNING FOR ROAD CLOSURE.
 - ** SEE RSD 1101.03, SHEET 2 OF 9, FOR TYPE III BARRICADE LOCATION WITH ATTACHED SIGNING & ADDITIONAL SIGNING FOR ROAD CLOSURE.
 - *** INSTALL TYPE III BARRICADE, AS DIRECTED BY THE ENGINEER, TO MAINTAIN ACCESS TO DRIVEWAYS.

DETOUR ROUTE ● ● ●

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PROJ. REFERENCE NO.	SHEET NO.
U-2525C	TMP-3



AREA 1: -L- STA. 275+00.00 TO STA. 290+00 +/-
 -L- 299+00 +/- TO STA. 327+00 +/-
 -L- 343+00 +/- TO STA. 379+00 +/-
 -L- 424+00 +/- TO STA. 445+00 +/-
 -L- 492+00 +/- TO STA. 520+00 +/-
 -L- 526+00 +/- TO STA. 522+99.67 LB

U-2524D -LREV- STA. 501+00.00 TO
 -L- STA. 520+34.53 LB

-Y3-
 -Y13RPA- STA. 10+00.00 TO STA. 24+00.00
 -Y13RRD- STA. 22+50.00 TO STA. 38+32.74
 -LACFLY- STA. 12+49 +/- TO STA. 27+00.00
 -LCD- STA. 43+76 +/- TO STA. 58+69.98

SEE SHEETS TMP-A1-1
 TO TMP-A1-2

AREA 4: -L- STA. 379+00 +/- TO STA 424+00 +/-
 -Y4-
 -Y4RPA-
 -Y4LPA-
 -Y4RPC-
 -Y4LPC-

SEE SHEETS TMP-A4-1
 TO TMP-A4-6

AREA 2: -L- STA. 290+00 +/- TO STA 299+00 +/-
 -LACFLY- STA. 10+00.00 TO STA. 12+49 +/-
 -LCD- STA. 58+69.98 TO STA. 67+35.69
 -Y16-
 -Y17-
 -Y18-

SEE SHEETS TMP-A2-1
 TO TMP-A2-4

AREA 3: -L- STA. 327+00 +/- TO STA 343+00 +/-
 (OVER -Y1- & NORFOLK SOUTHERN RR)

SEE SHEETS TMP-A3-1
 & TMP-A3-2

CONTRACTOR MAY WORK IN ALL AREAS
 SIMULTANEOUSLY AND /OR INDEPENDENTLY

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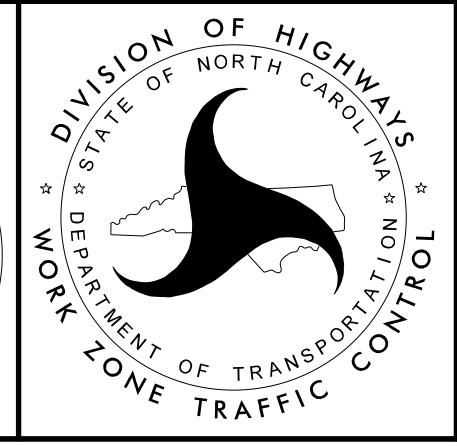
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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APPROVED: *Bob A. May*
 DATE: 12/5/2017

SEAL

NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 21116
 BOB A. MAY



PROJECT OVERVIEW
 AND
 AREA DESCRIPTIONS

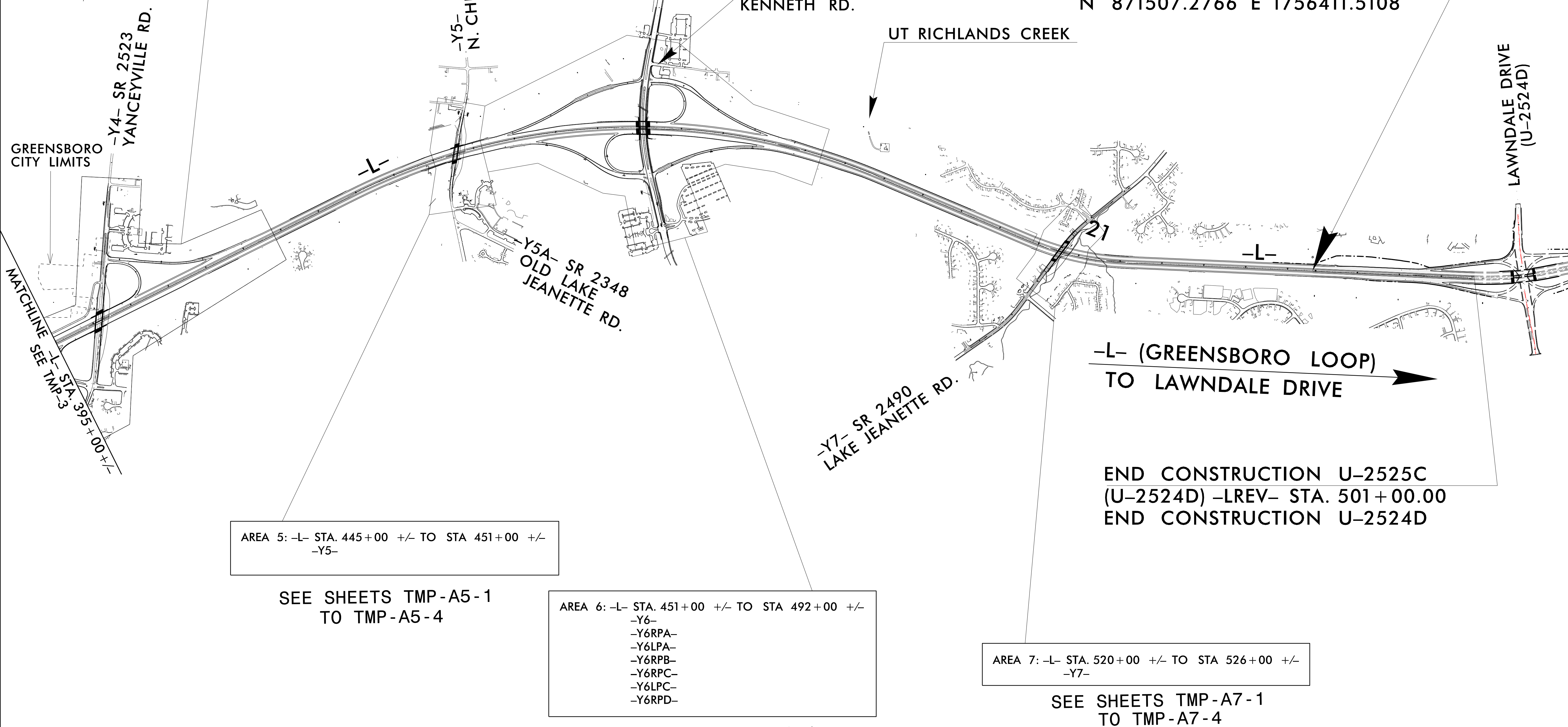
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 User:skennedy

PROJ. REFERENCE NO.	SHEET NO.
U-2525C	TMP-3A

AREA 4: -L- STA. 379+00 +/- TO STA 424+00 +/-
 -Y4-
 -Y4RPA-
 -Y4LPA-
 -Y4RPC-
 -Y4LPC-

SEE SHEETS TMP-A4-1
 TO TMP-A4-6

END TIP PROJECT
 U-2525C -L- STA. 552+99.67 LB
 N 871505.0126 E 1756411.6682
 END TIP PROJECT
 U-2524D -L- STA. 520+34.53 LB
 N 871507.2766 E 1756411.5108



AREA 5: -L- STA. 445+00 +/- TO STA 451+00 +/-
 -Y5-

SEE SHEETS TMP-A5-1
 TO TMP-A5-4

AREA 6: -L- STA. 451+00 +/- TO STA 492+00 +/-
 -Y6-
 -Y6RPA-
 -Y6LPA-
 -Y6RPB-
 -Y6RPC-
 -Y6LPC-
 -Y6RPD-

SEE SHEETS TMP-A6-1
 TO TMP-A6-10

AREA 7: -L- STA. 520+00 +/- TO STA 526+00 +/-
 -Y7-

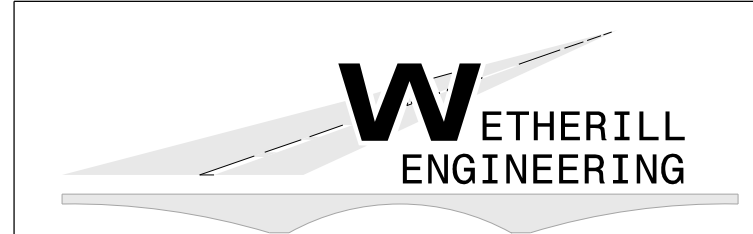
SEE SHEETS TMP-A7-1
 TO TMP-A7-4

CONTRACTOR MAY WORK IN ALL AREAS
 SIMULTANEOUSLY AND/OR INDEPENDENTLY

-L- (GREENSBORO LOOP)
 TO LAWDALE DRIVE

END CONSTRUCTION U-2525C
 (U-2524D) -LREV- STA. 501+00.00
 END CONSTRUCTION U-2524D

12/5/2017
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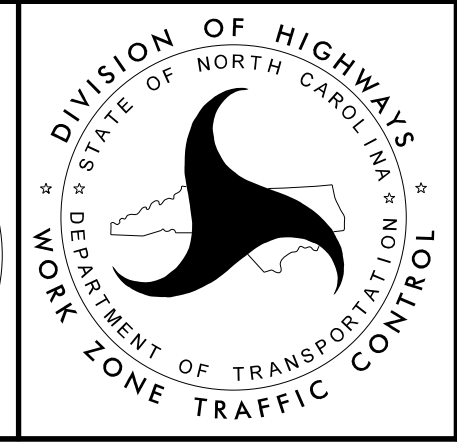


TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
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APPROVED: *Bob A. May*
 DATE: 12/5/2017
 SEAL



PROJECT OVERVIEW
 AND
 AREA DESCRIPTIONS

AREA 1 PHASING

THIS PROJECT IS DIVIDED INTO SEVEN AREAS (SEE SHEETS TMP-3 & TMP-3A).
THE CONTRACTOR MAY WORK IN ALL AREAS SIMULTANEOUSLY AND/OR INDEPENDENTLY.

NOTE: BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL:

- INSTALL ADVANCE WORK ZONE WARNING SIGNS ALONG GREENSBORO LOOP (-L-) US 29 (-Y13-) AND ALL -Y- LINES (SEE ROADWAY STANDARD DRAWING NO. 1101.01, SHEETS 1 & 2 OF 3).

PHASE I

STEP 1: - AWAY FROM TRAFFIC, AS MUCH AS POSSIBLE, CONSTRUCT THE FOLLOWING (SEE ROADWAY PLANS AND SHEETS TMP-3 & TMP-3A):

-- PROPOSED GREENSBORO LOOP (-L-) AS FOLLOWS

STA. 275+00 +/- -L- TO STA. 290+00 +/- -L-
 STA. 299+00 +/- -L- TO STA. 327+00 +/- -L-
 STA. 343+00 +/- -L- TO STA. 379+00 +/- -L-

NOTE: USING TYPE III BARRICADES CLOSE WATLINGTON RD. (-Y3-) AND CONSTRUCT PROPOSED TURN-AROUND & DRIVEWAY.

STA. 424+00 +/- -L- TO STA. 445+00 +/- -L-
 STA. 492+00 +/- -L- TO STA. 520+00 +/- -L-
 STA. 526+00 +/- -L- TO STA. 522+99.67 -L- LB

U-2524D:
 STA. 501+00.00 -LREV- TO STA. 520+34.53 -L- LB

-- PROPOSED GREENSBORO LOOP (-LCD-), PROPOSED FLYOVER (-LACFLY-) AND BOTH RAMPS (-Y13RPA- & -13RPD-) UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, AS FOLLOWS:

STA. 43+76 +/- -LCD- TO STA. 58+69.98 -LCD-
 STA. 12+49 +/- -LACFLY- TO STA. 27+00.00 -LACFLY-
 STA. 10+00.00 -Y13RPA- TO STA. 24+00.00 -Y13RPA-
 STA. 22+50.00 -Y13RPD- TO STA. 38+32.74 -Y13RPD-

- USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 3, 4, 5, 6, 8, 9 & 10 OF 14; ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 9 OF 9; ROADWAY STANDARD DRAWING NO. 1101.04, SHEET 1 OF 1 AND DETAILS ON SHEETS TMP-A1-3 & TMP-A1-4:

NOTE: SEE GENERAL NOTES A) FOR LANE(S) CLOSURE RESTRICTIONS, B) FOR HOLIDAY RESTRICTIONS AND D) FOR STOPPING TRAFFIC RESTRICTIONS & DURATIONS.

-- MODIFY/REVISE SIGNALS AND PROPOSED SIGNAGE, AS REQUIRED, ON LAWNSDALE DR. (SEE SIGNAL PLANS, SIGNING PLANS AND FINAL PAVEMENT MARKING PLANS).

-- MODIFY/REVISE PROPOSED SIGNAGE, AS REQUIRED, ON THE FOLLOWING (SEE SIGNING PLANS):

US 29 (-Y13-),
 I-840/I-73,
 I-73,
 I-840/I-785,
 BATTLEGROUND RD. (US 220),
 JOSEPH M. BRYAN BLVD.,
 W. FRIENDLY AVE.,
 I-40/I-85,
 I-40/I-85 BUS,
 I-85,
 US 70,
 HUFFINE MILL RD.
 AND ANY OTHER ROADWAYS AS INDICATED ON THE SIGNING PLANS.

- COMPLETE CONSTRUCTION IN AREAS 2, 3, 4, 5, 6 AND 7.

PHASE II

STEP 1: - USING ROADWAY STANDARD DRAWING NOS. 1101.02, SHEETS 1, 2, 3, 5, 6, 7, 8, 9 & 10 OF 14:

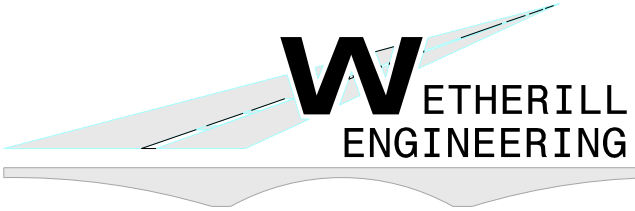
-- REMOVE AND REPLACE EXISTING PAVEMENT MARKINGS/MARKERS ON LAWNSDALE DR. FOR FINAL TRAFFIC PATTERN (SEE FINAL PAVEMENT MARKING PLANS).

NOTE: DRUM OFF PROPOSED RIGHT AND LEFT TURN LANES TO PROPOSED RAMPS TO U-2525C UNTIL PROJECT IS OPEN TO TRAFFIC, AS DIRECTED BY THE ENGINEER.

-- PAVE THE FINAL LAYER OF SURFACE COURSE, PLACE THE FINAL PAVEMENT MARKINGS AND INSTALL THE FINAL PAVEMENT MARKERS ON THE ENTIRE PROJECT (SEE ROADWAY PLANS AND FINAL PAVEMENT MARKING PLANS).

STEP 2: - ACTIVATE PROPOSED/REVISED SIGNALS ON LAWNSDALE DR. AND IN AREAS 4 & 6, AND OPEN ENTIRE PROJECT TO FINAL TRAFFIC PATTERN. REMOVE ALL TRAFFIC CONTROL DEVICES FROM THE PROJECT.

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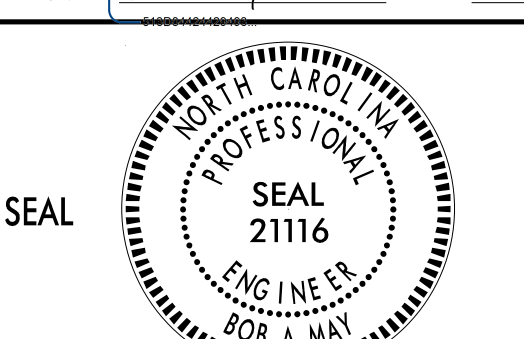
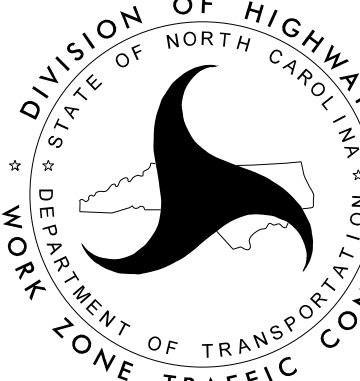


TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
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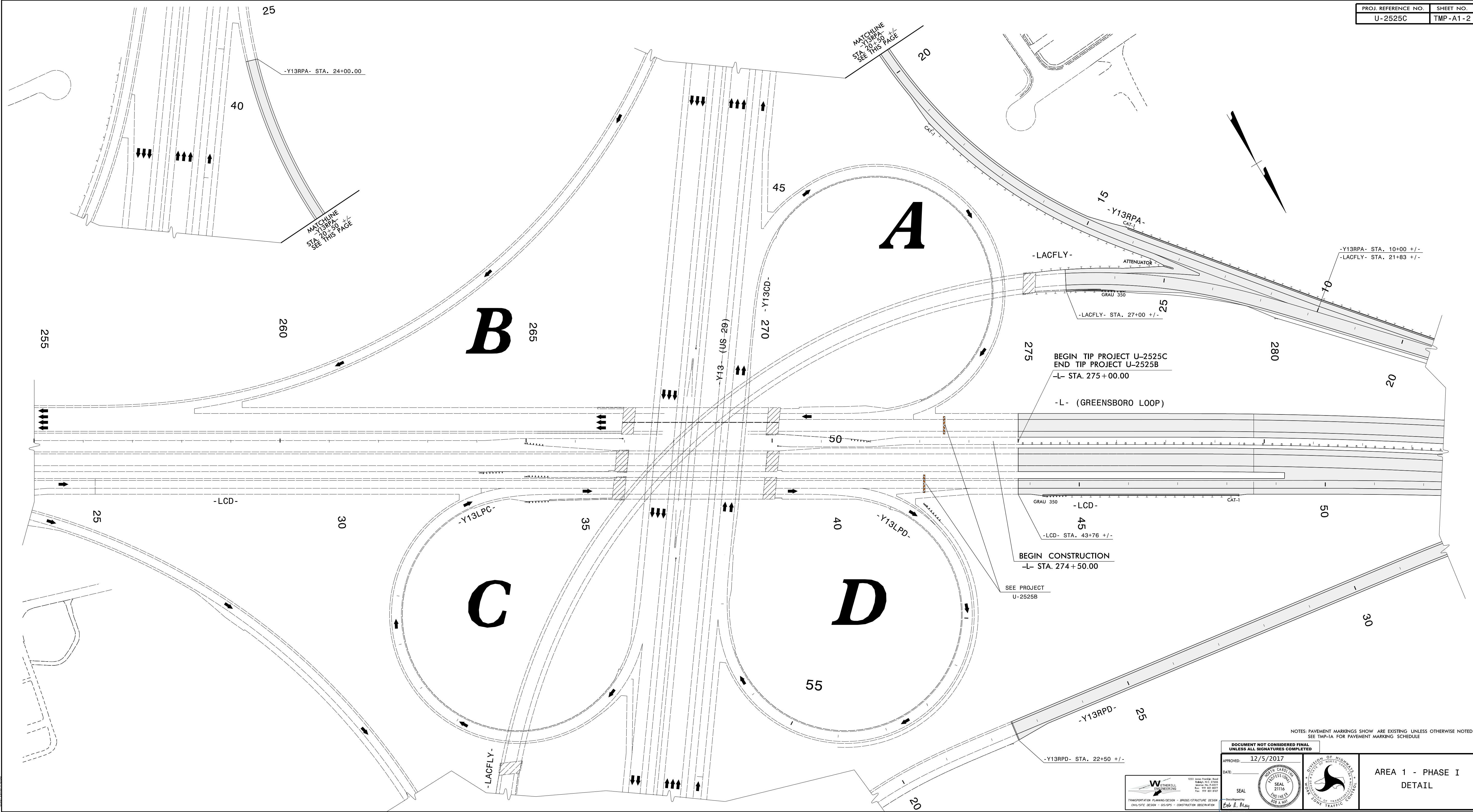
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APPROVED: Bob A. May DATE: 12/5/2017

**AREA 1
PHASING**

PROJ. REFERENCE NO.	SHEET NO.
U-2525C	TMP-A1-2



NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: 12/5/2017

DATE: 12/5/2017

SEAL: [Professional Engineer Seal]

SEAL: [Professional Engineer Seal]

SEAL: [Professional Engineer Seal]

SEAL: [Professional Engineer Seal]

AREA 1 - PHASE I
DETAIL

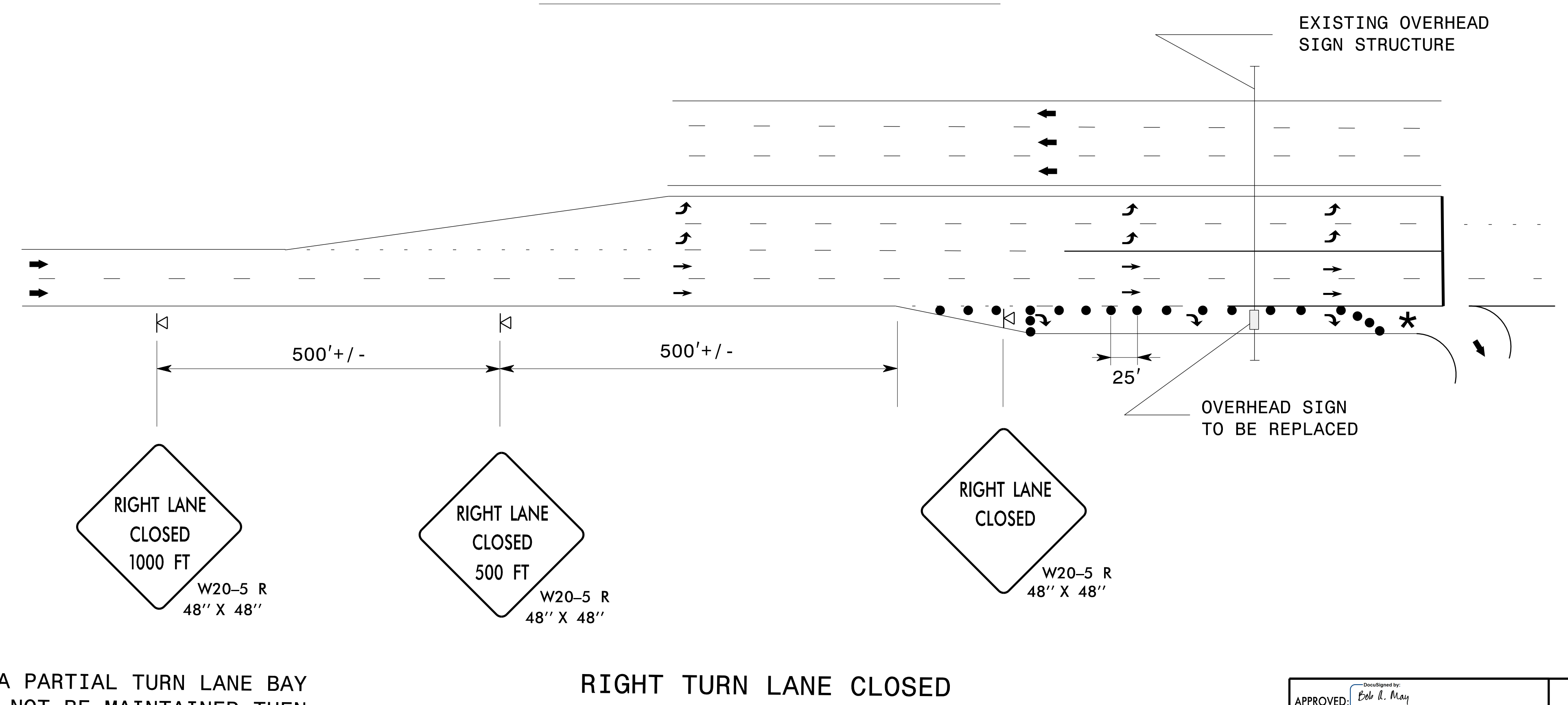
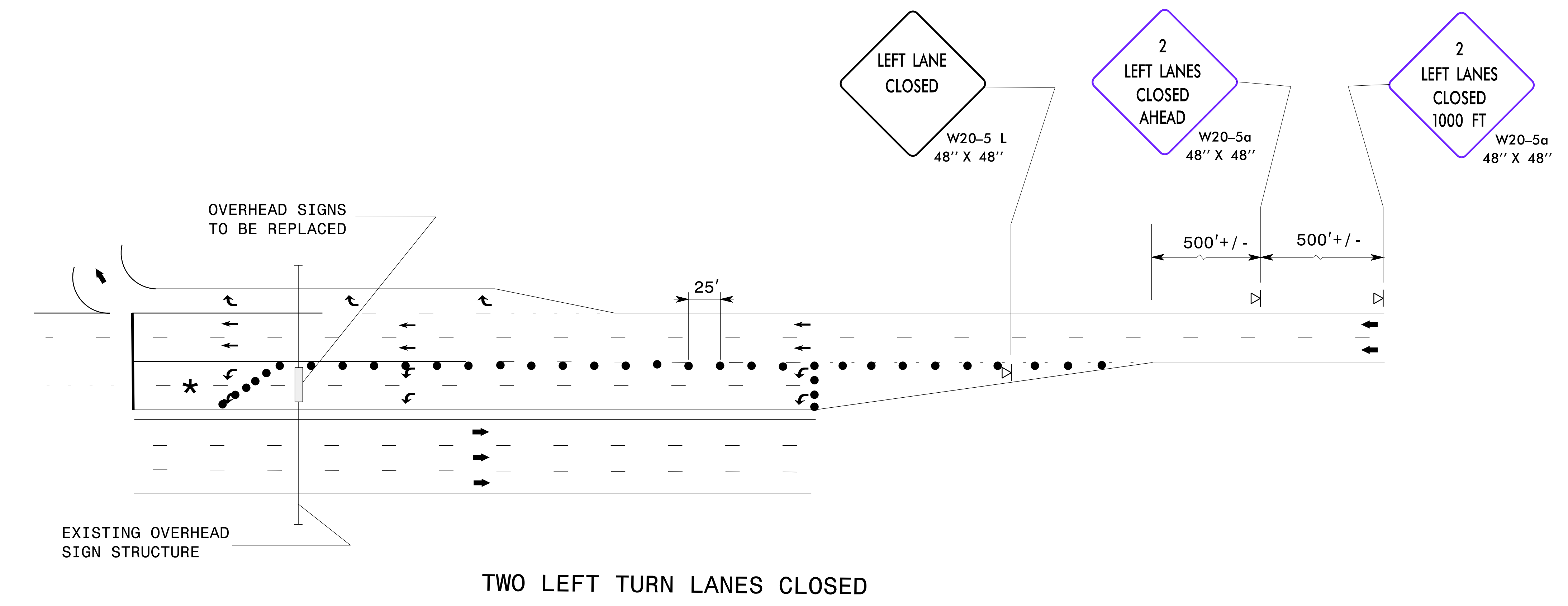
W
WHEELER
ENGINEERING

1333 John Franklin Blvd
Durham, NC 27617
TEL: 919.487.8000
WWW.WHEELERENGINEERING.COM

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
ENVIRONMENTAL DESIGN - DESIGN - CONSTRUCTION OBSERVATION

Developed by: *Paul H. Riley*

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* IF A PARTIAL TURN LANE BAY CAN NOT BE MAINTAINED THEN CLOSE THE ENTIRE TURN BAY.

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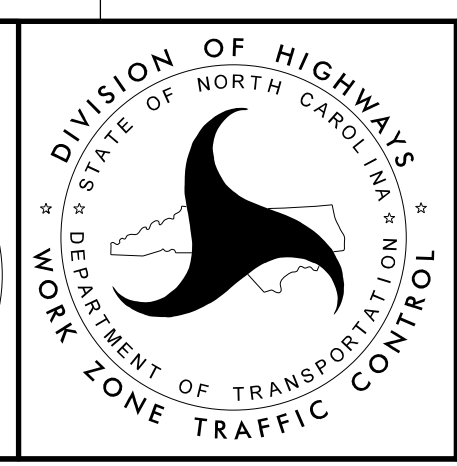
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
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APPROVED: *Bob A. May*
 DATE: 12/5/2017

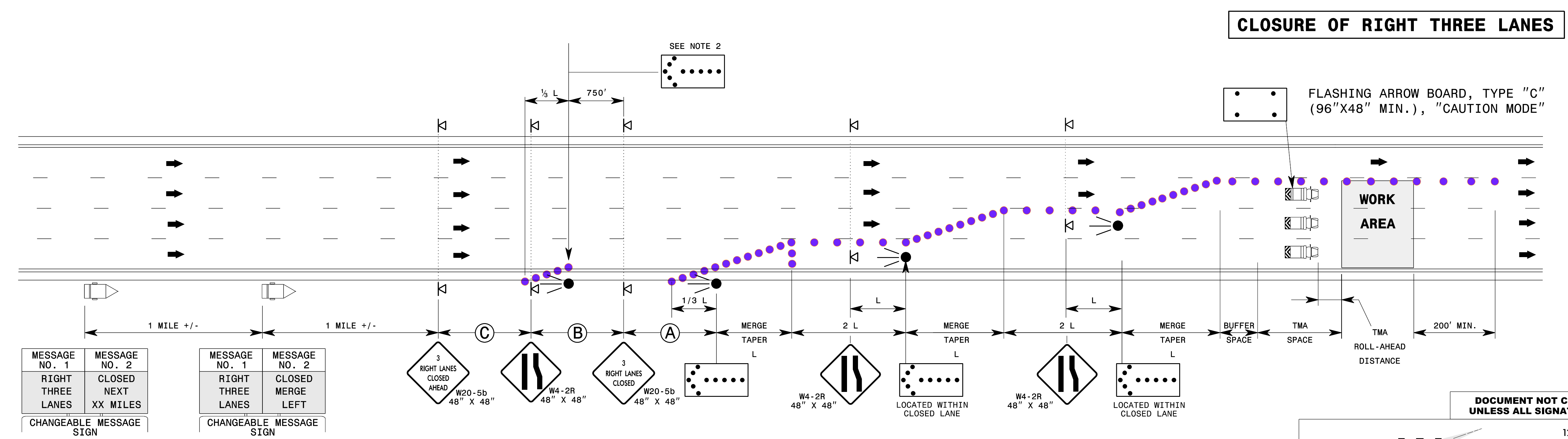
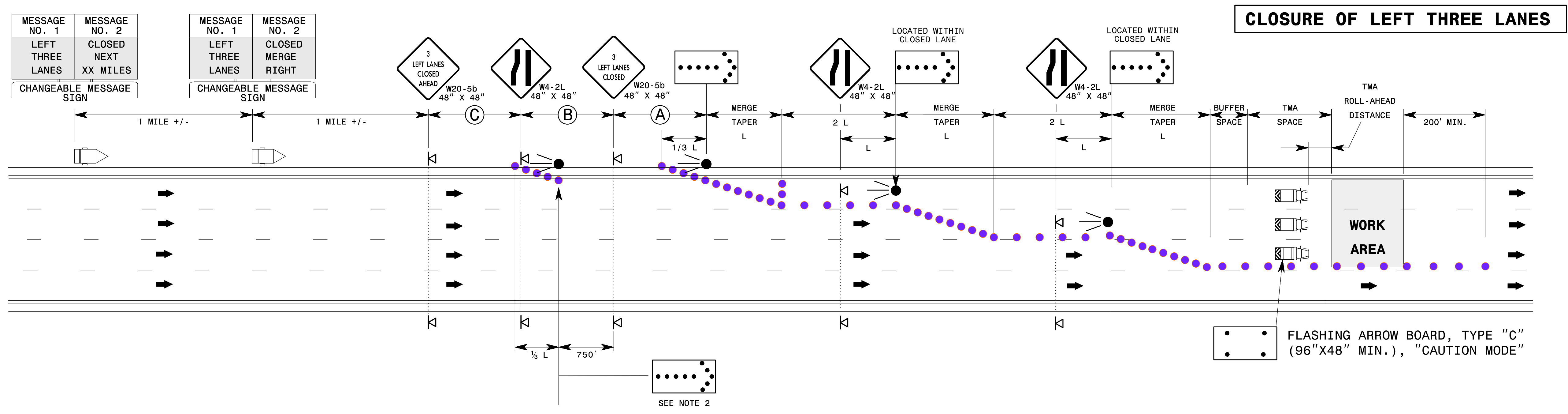
SEAL

PROFESSIONAL ENGINEER
 SEAL 21116
 BOB A. MAY



**AREA 1 - PHASE I
DETAIL**

12/5/2017
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 User:rskennedy



- NOTES: 1- REFER TO NOTES ON STD. 1101.02 SHEET 3.
 2- THE FIRST FLASHING ARROW BOARDS ARE NOT REQUIRED ON FACILITIES ≤ 55 MPH.

12/5/2017
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*TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION*

APPROVED: <i>Bob A. May</i> DATE: 12/5/2017 SEAL			<h2 style="margin: 0;">AREA 1 - PHASE I DETAIL</h2>
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AREA 2 PHASING

NOTE: BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL:

- INSTALL ADVANCE WORK ZONE WARNING SIGNS ALONG SUMMIT AVE. (-Y16-), PINDALS RD. (-Y17-), CANDLENU T RD. (-Y18-) AND ALL -Y- LINES (SEE ROADWAY STANDARD DRAWING NO. 1101.01, SHEET 3 OF 3).

PHASE I

- STEP 1: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED, CONSTRUCT THE FOLLOWING (SEE ROADWAY PLANS AND SHEET TMP-A2-2):
- PROPOSED -Y16DET- FROM STA. 11+30 +/- -Y16DET- TO STA. 16+70 +/- -Y16DET- (INCLUDING TEMPORARY PAVEMENT & PORTABLE CONCRETE BARRIER), UP TO & INCLUDING THE FINAL LAYER OF SURFACE COURSE, AND UP TO THE EDGE & ELEVATION OF THE EXISTING FROM STA. 10+00 +/- -Y16DET- TO STA. 11+30 +/- -Y16DET- AND STA. 16+70 +/- -Y16DET- TO STA. 18+02 +/- -Y16DET-. PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS, AS MUCH AS POSSIBLE AWAY FROM TRAFFIC (SEE SHEET TMP-A2-3).
 - PROPOSED PINDALS RD. (-Y17-) FROM STA. 12+40 +/- -Y17- TO STA. 15+64 +/- -Y17-, UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND UP TO THE EDGE & ELEVATION OF THE EXISTING FROM STA. 11+39 +/- -Y17- TO STA. 12+40 +/- -Y17-. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT)/MARKERS, AS MUCH AS POSSIBLE AWAY FROM TRAFFIC, FOR THE FINAL TRAFFIC PATTERN (SEE FINAL PAVEMENT MARKING PLAN AND SHEET TMP-A2-3).
 - PROPOSED CANDLENU T RD (-Y18-) FROM STA. 13+00 +/- -Y18- TO STA. 15+25 +/- -Y18-, UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT)/MARKERS FOR THE FINAL TRAFFIC PATTERN AND OPEN TO TRAFFIC (SEE FINAL PAVEMENT MARKING PLAN AND SHEET TMP-A2-3).

SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN AREA 2, PHASE I, STEP 2 WITHIN ONE WORK PERIOD.

- STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14:
- A. UTILIZING WEDGING AND PAVING OPERATIONS CONSTRUCT THE PROPOSED TIE-IN OF PINDALS RD (-Y17-) FROM STA. 11+39 +/- -Y17- TO STA. 12+40 +/- -Y17-, UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, PLACE REMAINDER OF TEMPORARY PAVEMENT MARKINGS (PAINT)/MARKERS FOR THE FINAL TRAFFIC PATTERN, OPEN TO TRAFFIC AND CLOSED REMAINDER OF PINDALS RD. (-Y17-) (SEE ROADWAY PLANS, FINAL PAVEMENT MARKING PLAN AND SHEET TMP-A2-3).
 - B. PLACE REMAINDER OF TEMPORARY PAVEMENT MARKINGS (PAINT)/MARKERS FOR -Y16DET- AND USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 3 OF 9, CLOSE EXISTING SUMMIT AVE. (-Y16-) AND OPEN -Y16DET- TO TRAFFIC (SEE SHEET TMP-A2-3).

PHASE II

- STEP 1: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED (SEE ROADWAY PLANS AND SHEET TMP-A2-3):
- CONSTRUCT PROPOSED SUMMIT AVE. (-Y16-) FROM STA. 14+80 +/- -Y16- TO STA. 19+90 +/- -Y16- (INCLUDING PROPOSED BRIDGE), UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, AND UP TO THE EDGE & ELEVATION OF -Y16DET- FROM STA. 14+19 +/- -Y16- TO STA. 14+80 +/- -Y16- AND STA. 19+90 +/- -Y16- TO STA. 21+25 +/- -Y16-.
 - BEGIN CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-), -LACFLY- AND -LCD-:
 - STA. 290+00 +/- -L- TO STA. 293+34 +/- -L-.
 - STA. 10+00.00 -LACFLY- TO STA. 12+49 +/- -LACFLY-
 - STA. 58+69.98 -LCD- TO STA. 62+04 +/- -LCD-

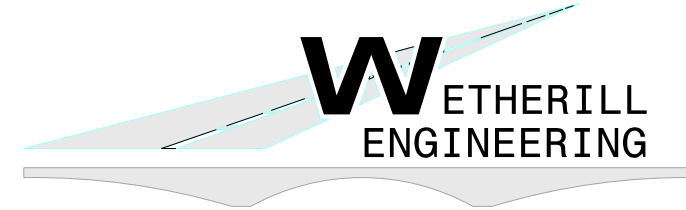
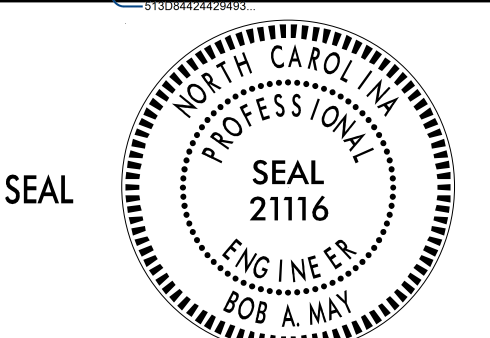

SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN AREA 2, PHASE II, STEP 2 WITHIN ONE WORK PERIOD.

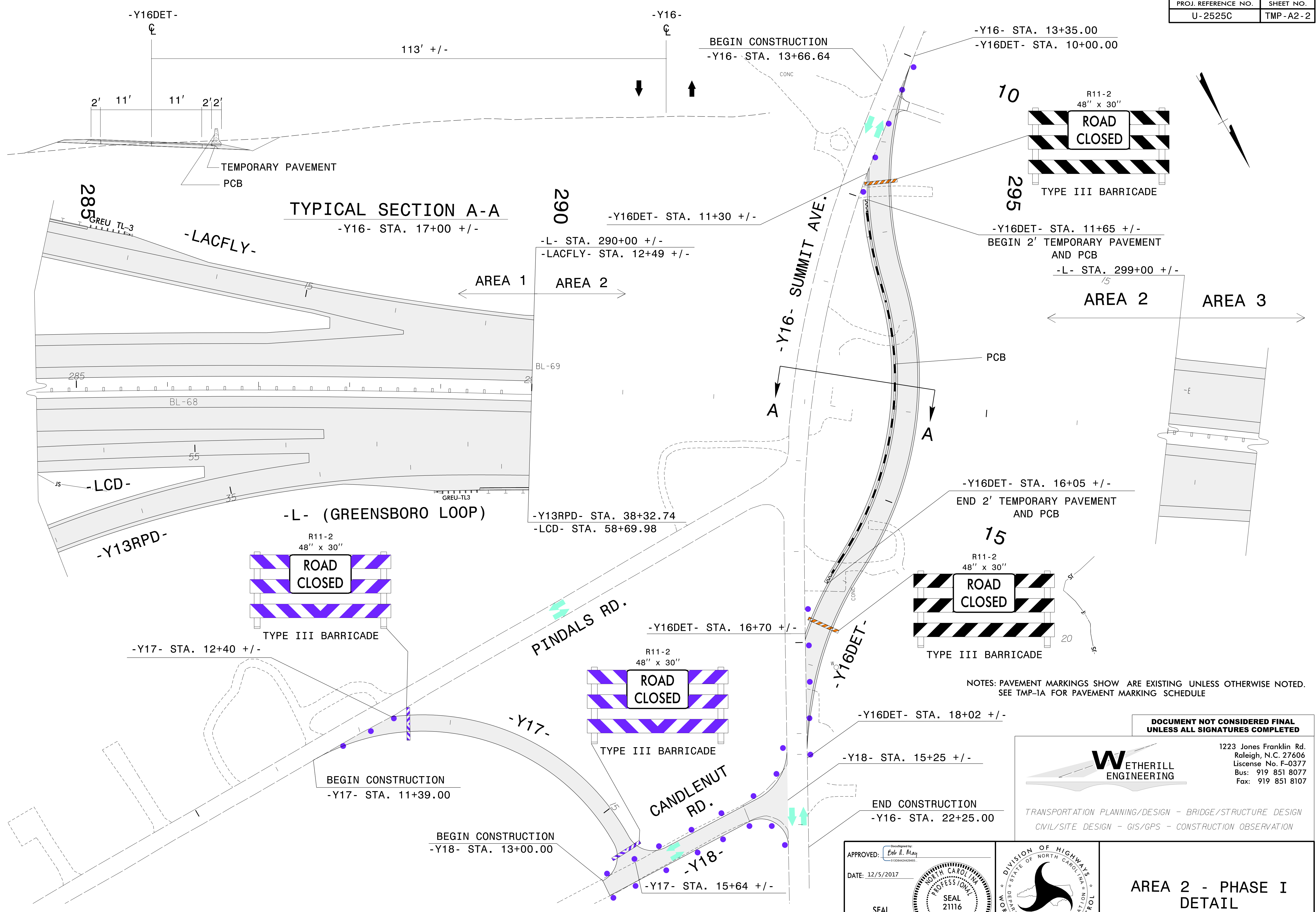
- STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED:
- A. UTILIZING WEDGING AND PAVING OPERATIONS CONSTRUCT THE PROPOSED TIE-IN OF SUMMIT AVE. (-Y16-) FROM STA. 14+19 +/- -Y16- TO STA. 14+80 +/- -Y16- AND FROM STA. 19+90 +/- -Y16- TO STA. 21+25 +/- -Y16- UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE ROADWAY PLANS).
 - B. PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS FOR THE FINAL TRAFFIC PATTERN, OPEN TO TRAFFIC AND CLOSE -Y16DET- TO TRAFFIC. (SEE FINAL PAVEMENT MARKING PLAN AND SHEET TMP-A2-4).

PHASE III

- STEP 1. - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED (SEE ROADWAY PLANS AND SHEET TMP-A2-4):
- REMOVE -Y16DET- AND CONSTRUCT REMAINDER OF PROPOSED SUMMIT AVE. (-Y16-).
 - CONSTRUCT PROPOSED GREENSBORO LOOP (-L-) AND -LCD-:
 - STA. 293+34 +/- -L- TO STA. 299+00 +/- -L-
 - STA. 62+04 +/- -LCD- TO STA. 67+35.69 -LCD-
 - COMPLETE CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-), -LACFLY- AND -LCD-, BEGUN IN AREA 2, PHASE II, STEP 1:
 - STA. 290+00 +/- -L- TO STA. 293+34 +/- -L-.
 - STA. 10+00.00 -LACFLY- TO STA. 12+49 +/- -LACFLY-
 - STA. 58+69.98 -LCD- TO STA. 62+04 +/- -LCD-

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 <p>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</p>	1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	APPROVED: <u>Bob A. May</u> DATE: 12/5/2017 	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	 <p>AREA 2 PHASING</p>
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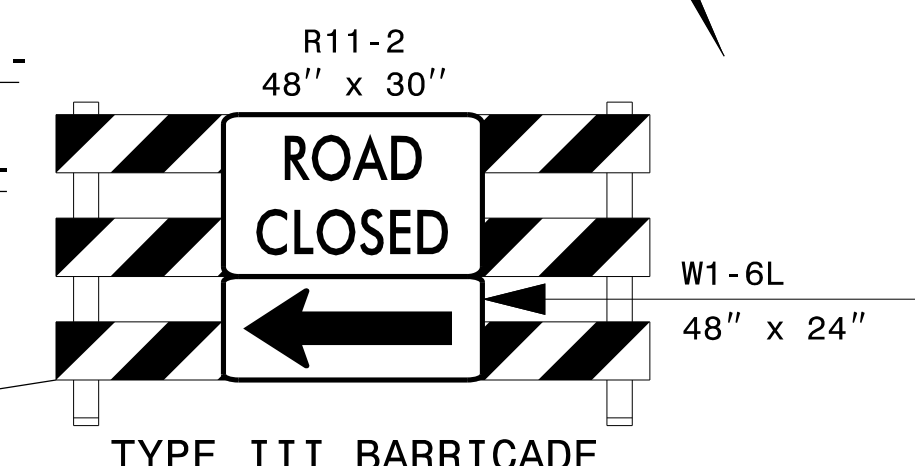
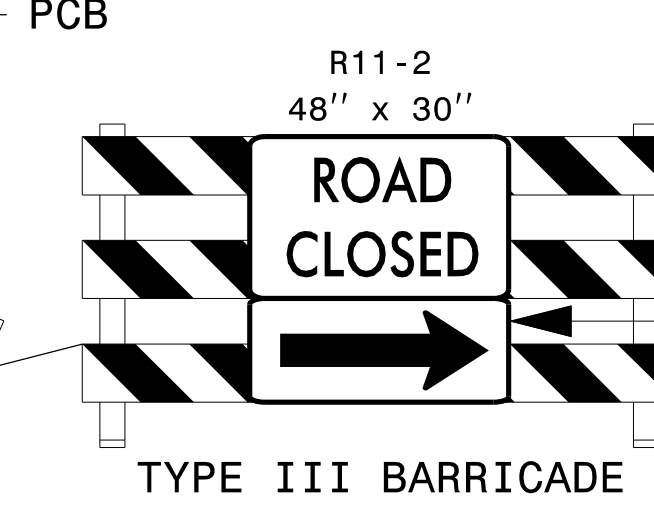
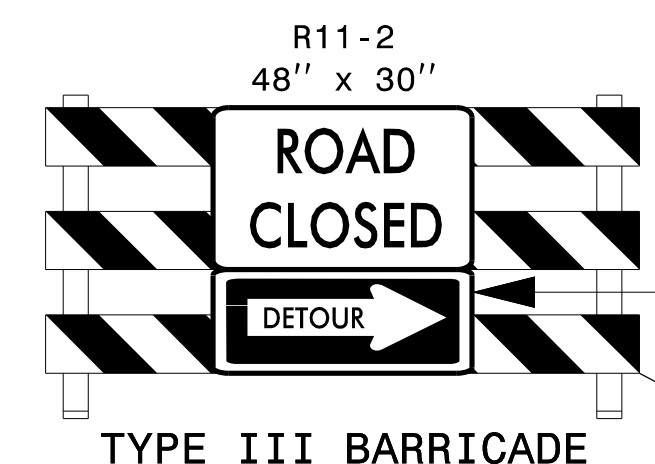
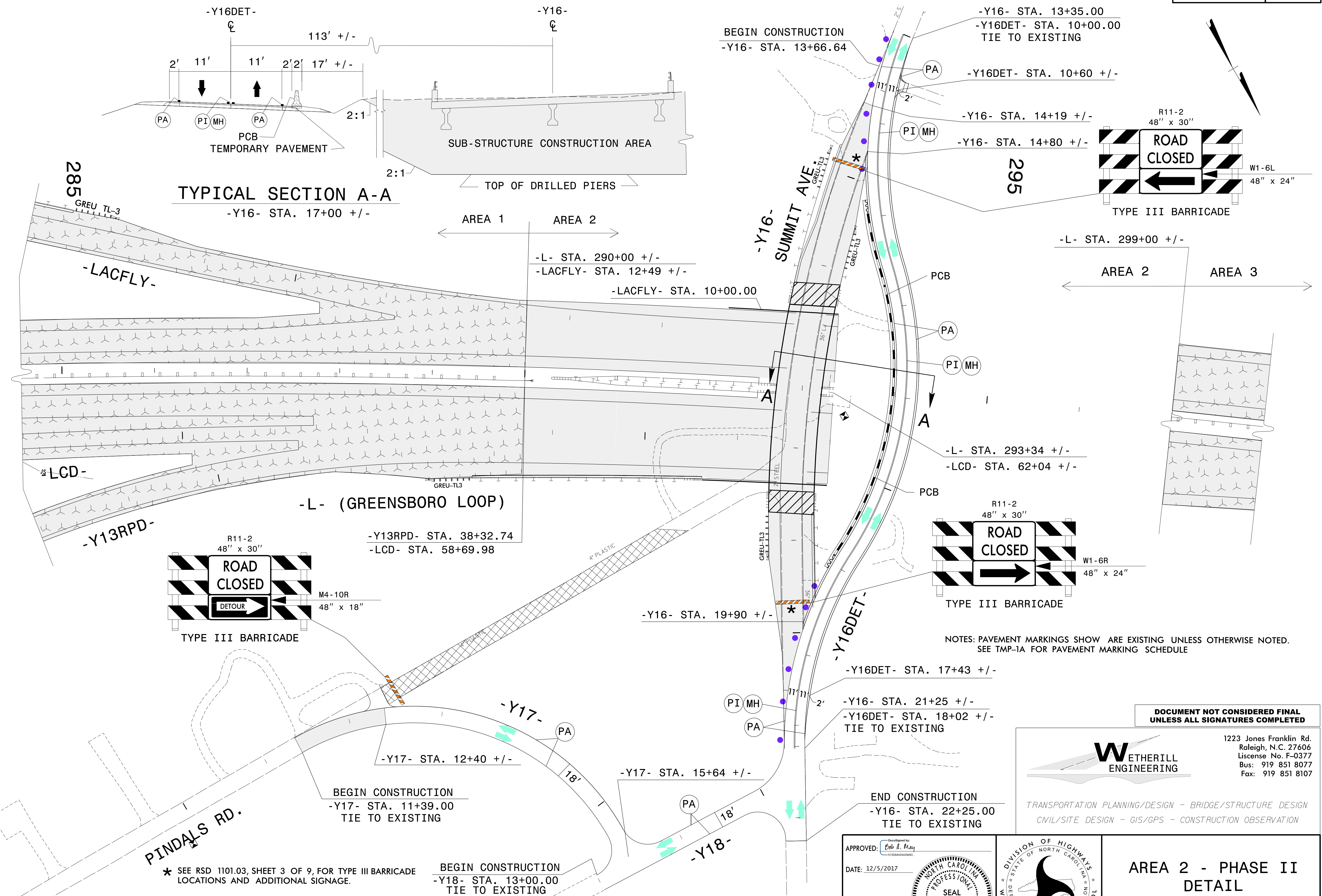
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**AREA 2 - PHASE I
DETAIL**



NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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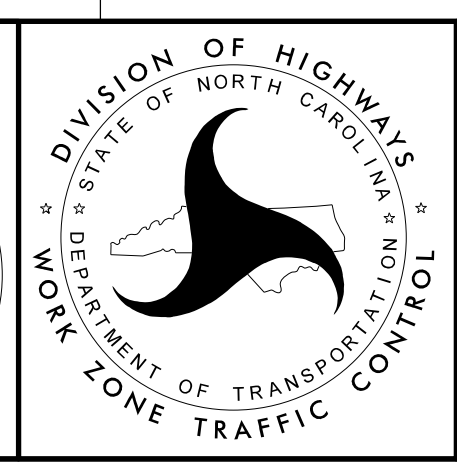
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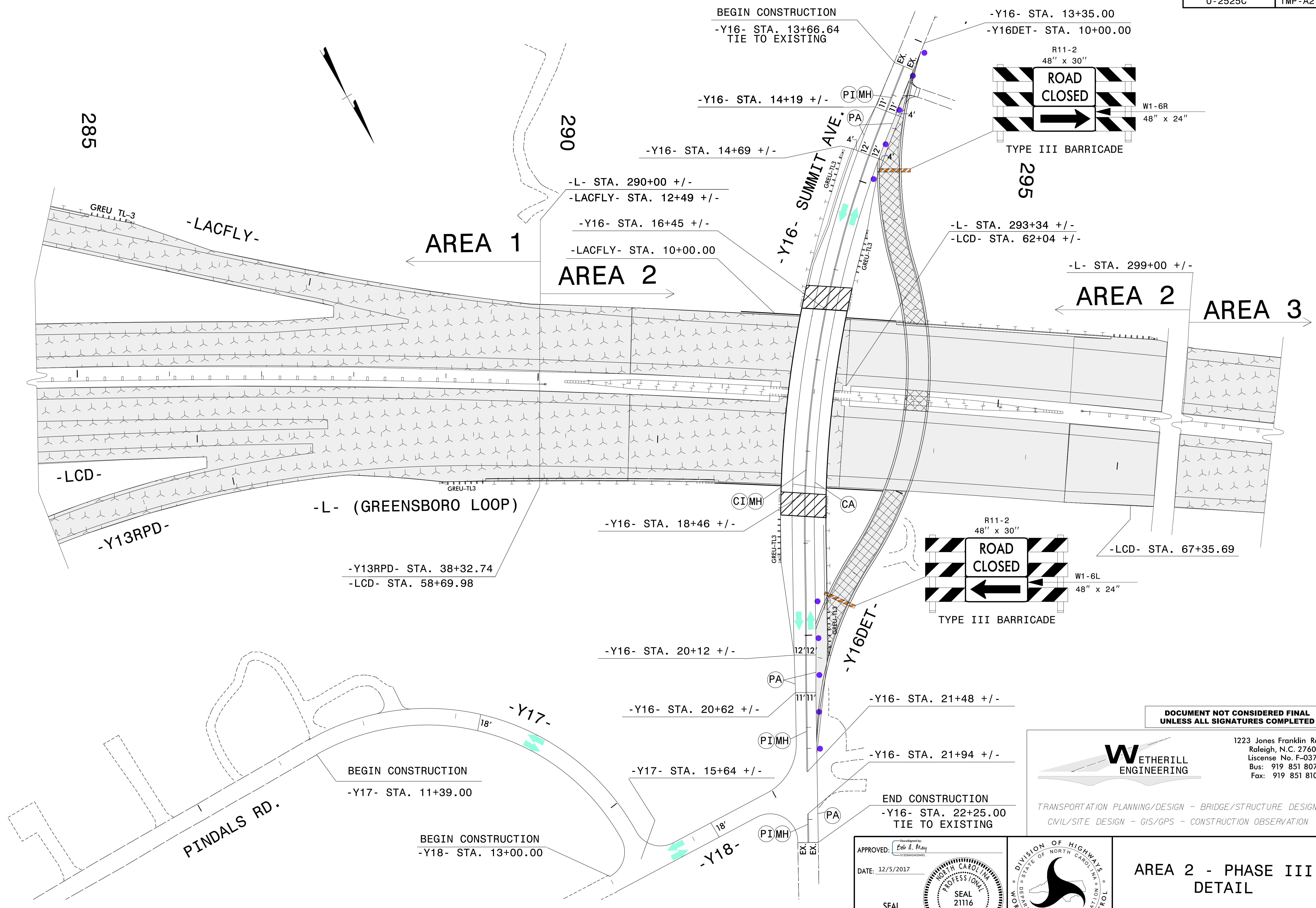
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**AREA 2 - PHASE II
DETAIL**

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* SEE RSD 1101.03, SHEET 3 OF 9, FOR TYPE III BARRICADE LOCATIONS AND ADDITIONAL SIGNAGE.



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APPROVED: *Bob A. May*

DATE: 12/5/2017

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ENGINEER



AREA 2 - PHASE III DETAIL

AREA 3 PHASING

NOTE: BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL:

- INSTALL ADVANCE WORK ZONE WARNING SIGNS ALONG LEES CHAPEL RD. (-Y1-) AND ALL -Y- LINES (SEE ROADWAY STANDARD DRAWING NO. 1101.01, SHEET 3 OF 3).

PHASE I

STEP 1: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED, CONSTRUCT TEMPORARY PAVEMENT ALONG BOTH SIDES OF LEES CHAPEL RD. (-Y1-), UP TO THE EDGE AND ELEVATION OF THE EXISTING AS FOLLOWS (SEE ROADWAY PLANS AND SHEET TMP-A3-2):

STA. 11+00 +/- -Y1- TO STA. 14+80 +/- -Y1- (RIGHT SIDE)
STA. 11+50 +/- -Y1- TO STA. 15+30 +/- -Y1- (LEFT SIDE)

STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, INSTALL WATER FILLED BARRIER ON THE NEWLY COMPLETED TEMPORARY WIDENING AS FOLLOWS (SEE SHEET TMP-A3-2):

STA. 11+00 +/- -Y1- TO STA. 14+80 +/- -Y1- (RIGHT SIDE)
STA. 11+50 +/- -Y1- TO STA. 15+30 +/- -Y1- (LEFT SIDE)

STEP 3. - CONSTRUCT PROPOSED GREENSBORO LOOP (-L-) FROM STA. 327+00 +/- -L- TO STA. 343+00 +/- -L-, INCLUDING BOTH BRIDGES OVER LEES CHAPEL RD. (-Y1-) AND NORFOLK SOUTHERN RR (-Y2-) (SEE ROADWAY PLANS, STRUCTURE PLANS AND SHEET TMP-A3-2).

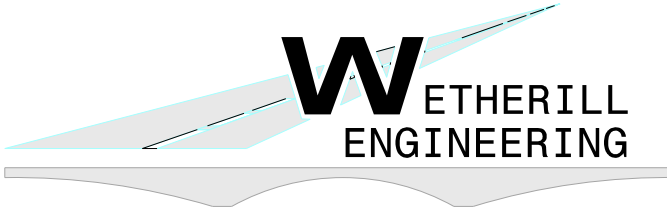
NOTE: NORFOLK SOUTHERN RAILROAD PROCEDURES WILL BE ADHERED TO FOR BRIDGE CONSTRUCTION OVER RAILROAD.

NOTE: FOR GIRDER INSTALLATION UTILIZE ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 & 2 OF 9 & OFF-SITE DETOUR ON SHEET TMP-2C TO CLOSE EXISTING LEES CHAPEL RD. (-Y1-) AND GENERAL NOTE "C" ON TMP-1C FOR TIME RESTRICTIONS.

NOTE: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, REMOVE WATER FILLED BARRIER ALONG LEES CHAPEL RD. (-Y1-) WHEN NO LONGER REQUIRED.

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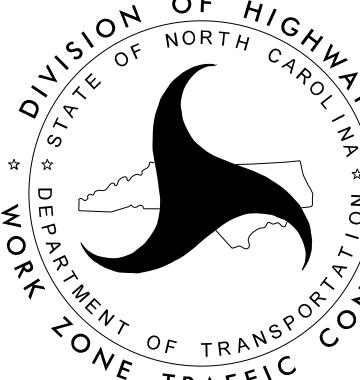
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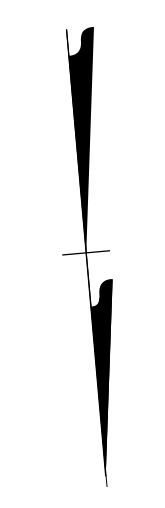
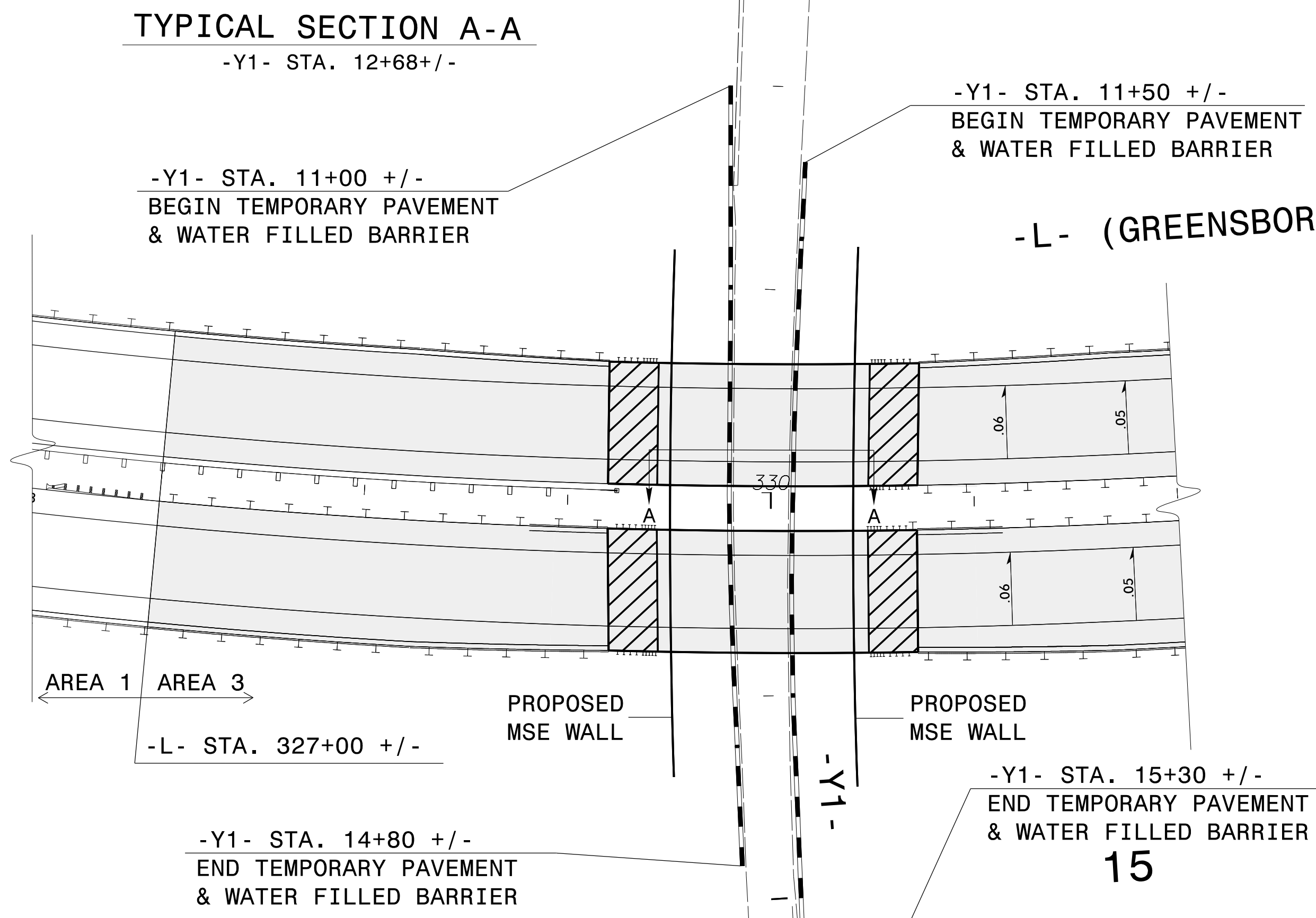
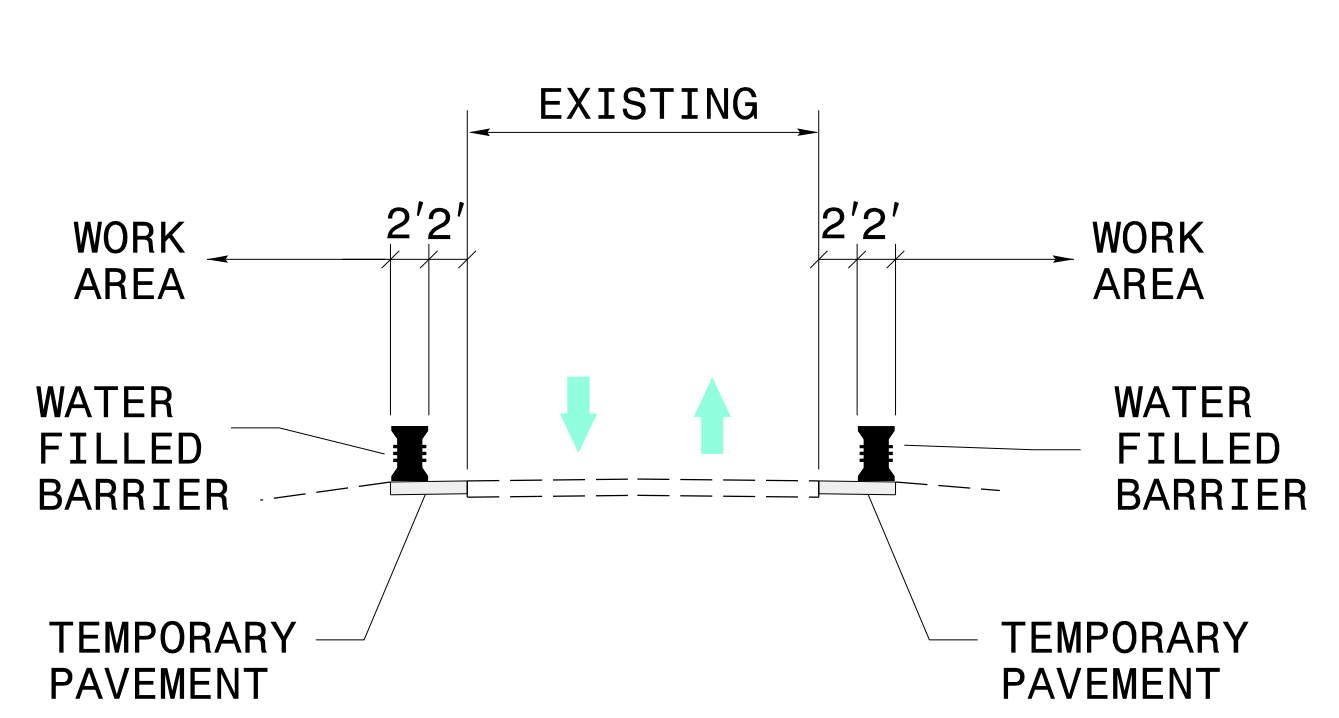
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ENGINEER
21116
BOB A. MAY



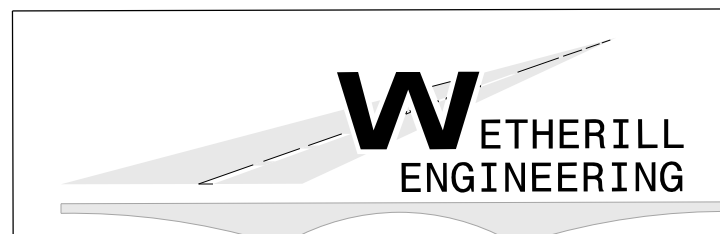
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

AREA 3 PHASING



NORFOLK SOUTHERN RR

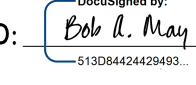
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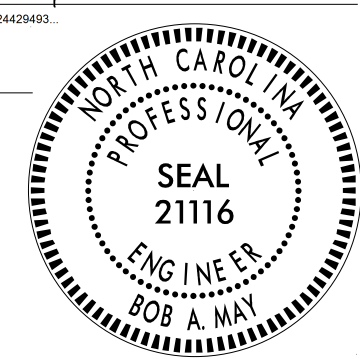
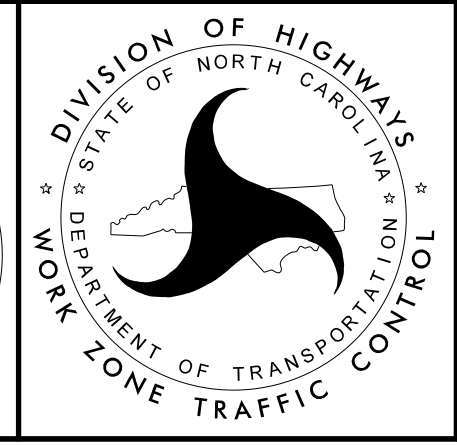
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**AREA 3 - PHASE I
DETAIL**

AREA 4 PHASING

NOTE: BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL:

- INSTALL ADVANCE WORK ZONE WARNING SIGNS ALONG YANCEYVILLE RD. (-Y4-), LORRAINE RD. (SR 2633), PEACH ORCHARD DR., MEADOWRUE DR. (SR 2532) AND ALL -Y- LINES (SEE ROADWAY STANDARD DRAWING NO. 1101.01, SHEET 3 OF 3).

PHASE I

- STEP 1: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED, CONSTRUCT THE FOLLOWING (SEE ROADWAY PLANS):
- PROPOSED -Y4DET- FROM STA. 12+04 +/- -Y4DET- TO STA. 21+55 +/- -Y4DET- (INCLUDING TEMPORARY PAVEMENT, TEMPORARY SHORING & PORTABLE CONCRETE BARRIER), UP TO & INCLUDING THE FINAL LAYER OF SURFACE COURSE, AND UP TO THE EDGE & ELEVATION OF THE EXISTING FROM STA. 10+55 +/- -Y4DET- TO STA. 12+04 +/- -Y4DET- AND FROM STA. 21+55 +/- -Y4DET- TO STA. 22+90 +/- -Y4DET-. PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS, AS MUCH AS POSSIBLE AWAY FROM TRAFFIC (SEE SHEETS TMP-A4-2 & TMP-A4-5).
 - BEGIN CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-) AND THE INTERCHANGE AT YANCEYVILLE RD. (-Y4-), UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, AS FOLLOWS (SEE ROADWAY PLANS AND SHEET TMP-A4-2):
 - STA. 379+00 +/- -L- TO STA. 398+50 +/- -L-
 - STA. 403+50 +/- -L- TO STA. 424+00 +/- -L-
 - STA. 10+00 +/- -Y4RPA- TO STA. 26+60 +/- -Y4RPA-
 - STA. 10+00 +/- -Y4LPA- TO STA. 18+96 +/- -Y4LPA-
 - STA. 10+00 +/- -Y4RPC- TO STA. 25+44 +/- -Y4RPC-
 - STA. 10+00 +/- -Y4LPC- TO STA. 18+95 +/- -Y4LPC-
 - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED, BEGIN CONSTRUCTION OF THE PROPOSED WIDENING OF YANCEYVILLE RD. (-Y4-) (NOT INCLUDING THE PROPOSED CONCRETE MONOLITHIC ISLANDS), UP TO THE EDGE AND ELEVATION OF THE EXISTING AS FOLLOWS (SEE ROADWAY PLANS AND SHEETS TMP-A4-2 TO TMP-A4-4):
 - STA. 12+50 +/- -Y4- TO STA 22+60 +/- -Y4-
 - STA. 35+68 +/- -Y4- TO STA 45+50 +/- -Y4- (INCLUDING -DR1-)
 - BEGIN CONSTRUCTION/INSTALLATION OF PROPOSED SIGNALS AT THE INTERSECTIONS OF PROPOSED YANCEYVILLE RD. (-Y4-) AND PROPOSED RAMPS & LOOPS (-Y4RPA-, -Y4LPA-, -Y4RPC- & -Y4LPC-) (SEE ROADWAY PLANS, SIGNAL PLANS AND SHEET TMP-A4-2).

SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN AREA 4, PHASE I, STEP 2 WITHIN ONE WORK PERIOD.

- STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14:
- PLACE REMAINDER OF TEMPORARY PAVEMENT MARKINGS (PAINT)/MARKERS FOR -Y4DET- AND USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 3 OF 9, CLOSE EXISTING YANCEYVILLE RD. (-Y4-) AND OPEN -Y4DET- TO TRAFFIC (SEE SHEET TMP-A4-5).

PHASE II

- STEP 1: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED (SEE ROADWAY PLANS AND SHEET TMP-A4-5):
- CONSTRUCT PROPOSED YANCEYVILLE RD. (-Y4-) FROM STA. 25+00 +/- -Y4- TO STA. 32+90 +/- -Y4- (INCLUDING PROPOSED BRIDGE), UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
 - CONSTRUCT PROPOSED WIDENING RIGHT SIDE OF YANCEYVILLE RD. (-Y4-) FROM STA. 22+60 +/- -Y4- TO STA. 25+00 +/- -Y4- AND FROM STA. 32+90 +/- -Y4- TO STA. 35+68 +/- -Y4-, UP TO THE EDGE & ELEVATION OF EXISTING.
 - BEGIN CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-) FROM STA. 398+50 +/- -L- TO STA. 401+18 +/- -L- (SEE ROADWAY PLANS AND SHEET TMP-A4-5).

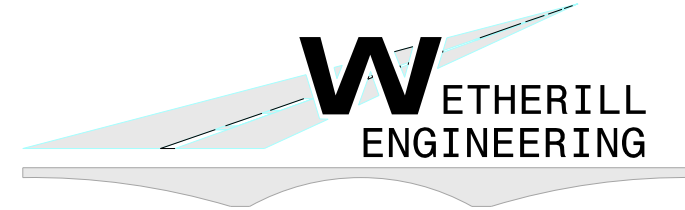
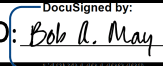
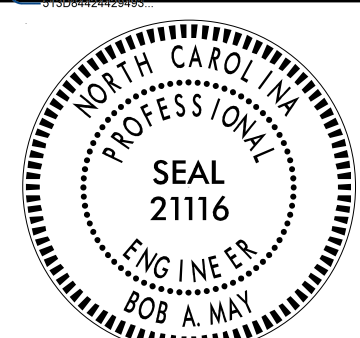

SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN AREA 4, PHASE II, STEP 2 WITHIN ONE WORK PERIOD.

- STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED (SEE ROADWAY PLANS):
- A. UTILIZING WEDGING AND PAVING OPERATIONS CONSTRUCT THE PROPOSED TIE-IN OF YANCEYVILLE RD. (-Y4-) FROM STA. 23+15 +/- -Y4- TO STA. 25+00 +/- -Y4- AND FROM STA. 32+90 +/- -Y4- TO STA. 35+35 +/- -Y6- UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
 - B. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT)/MARKERS FOR THE EXISTING TWO-LANE, TWO-WAY TRAFFIC PATTERN, OPEN TO TRAFFIC AND CLOSE -Y4DET- TO TRAFFIC. (SEE SHEET TMP-A4-6).

PHASE III

- STEP 1. - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED (SEE ROADWAY PLANS AND SHEET TMP-A4-6):
- REMOVE -Y4DET- AND CONSTRUCT REMAINDER OF PROPOSED LEFT SIDE OF YANCEYVILLE RD. (-Y4-) UP TO THE EDGE AND ELEVATION OF THE EXISTING AS FOLLOWS:
 - STA. 22+60 +/- -Y4- TO STA. 25+00 +/- -Y4-
 - STA. 32+90 +/- -Y4- TO STA. 36+50 +/- -Y4-
 - COMPLETE CONSTRUCTION OF PROPOSED WIDENING OF YANCEYVILLE RD. (-Y4-) BEGUN IN AREA 4, PHASE I, STEP 1:
 - STA. 12+50 +/- -Y4- TO STA 22+60 +/- -Y4-
 - STA. 35+68 +/- -Y4- TO STA 45+50 +/- -Y4- (INCLUDING -DR1-)
 - COMPLETE CONSTRUCTION/INSTALLATION OF PROPOSED SIGNALS AT THE INTERSECTIONS OF PROPOSED YANCEYVILLE RD. (-Y4-) AND PROPOSED RAMPS & LOOPS (-Y4RPA-, -Y4LPA-, -Y4RPC- & -Y4LPC-) BEGUN IN AREA 4, PHASE I, STEP 1, BUT DO NOT ACTIVATE.
 - BEGIN CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-) FROM STA. 401+18 +/- -L- TO STA. 403+50 +/- -L-.

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 <p>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</p>	1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	APPROVED:  DATE: 12/5/2017	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			<h2 style="margin: 0;">AREA 4 PHASING</h2>
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AREA 4 PHASING CONT.

STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1 & 2 OF 14, AS REQUIRED (SEE ROADWAY PLANS):

- A. UTILIZING WEDGING AND PAVING OPERATIONS CONSTRUCT PROPOSED YANCEYVILLE RD. (-Y4-) FROM STA. 12+50 +/- -Y4- TO STA. 45+50 +/- -Y4- UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- B. PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS FOR THE FINAL TRAFFIC PATTERN AND OPEN TO TRAFFIC (SEE FINAL PAVEMENT MARKING PLAN).

NOTE: DRUM OFF PROPOSED RIGHT AND LEFT TURN LANES TO PROPOSED LOOPS (-Y4LPA- & -Y4LPC-), AS DIRECTED BY THE ENGINEER.

- C. CONSTRUCT PROPOSED CONCRETE MONOLITHIC ISLANDS ON YANCEYVILLE RD. (-Y4-).

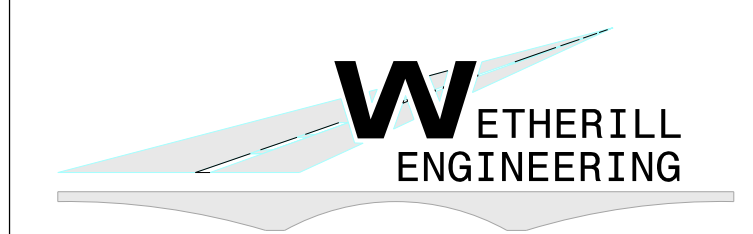
- COMPLETE CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-) AND THE INTERCHANGE AT YANCEYVILLE RD. (-Y4-), BEGUN IN AREA 4, PHASE I, STEP 1; AREA 4, PHASE II, STEP 1; AND AREA 4, PHASE III, STEP 1:

STA. 379+00 +/- -L- TO STA. 424+00 +/- -L-
 STA. 10+00 +/- -Y4RPA- TO STA. 26+60 +/- -Y4RPA-
 STA. 10+00 +/- -Y4LPA- TO STA. 18+96 +/- -Y4LPA-
 STA. 10+00 +/- -Y4RPC- TO STA. 25+44 +/- -Y4RPC-
 STA. 10+00 +/- -Y4LPC- TO STA. 18+95 +/- -Y4LPC-

NOTE: INSTALL TYPE III BARRICADES TO KEEP PROPOSED RAMPS & LOOPS CLOSED, AS DIRECTED BY THE ENGINEER.

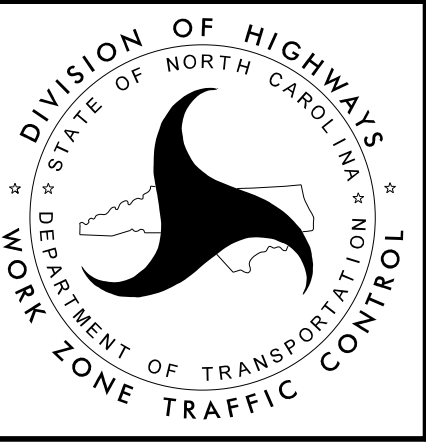
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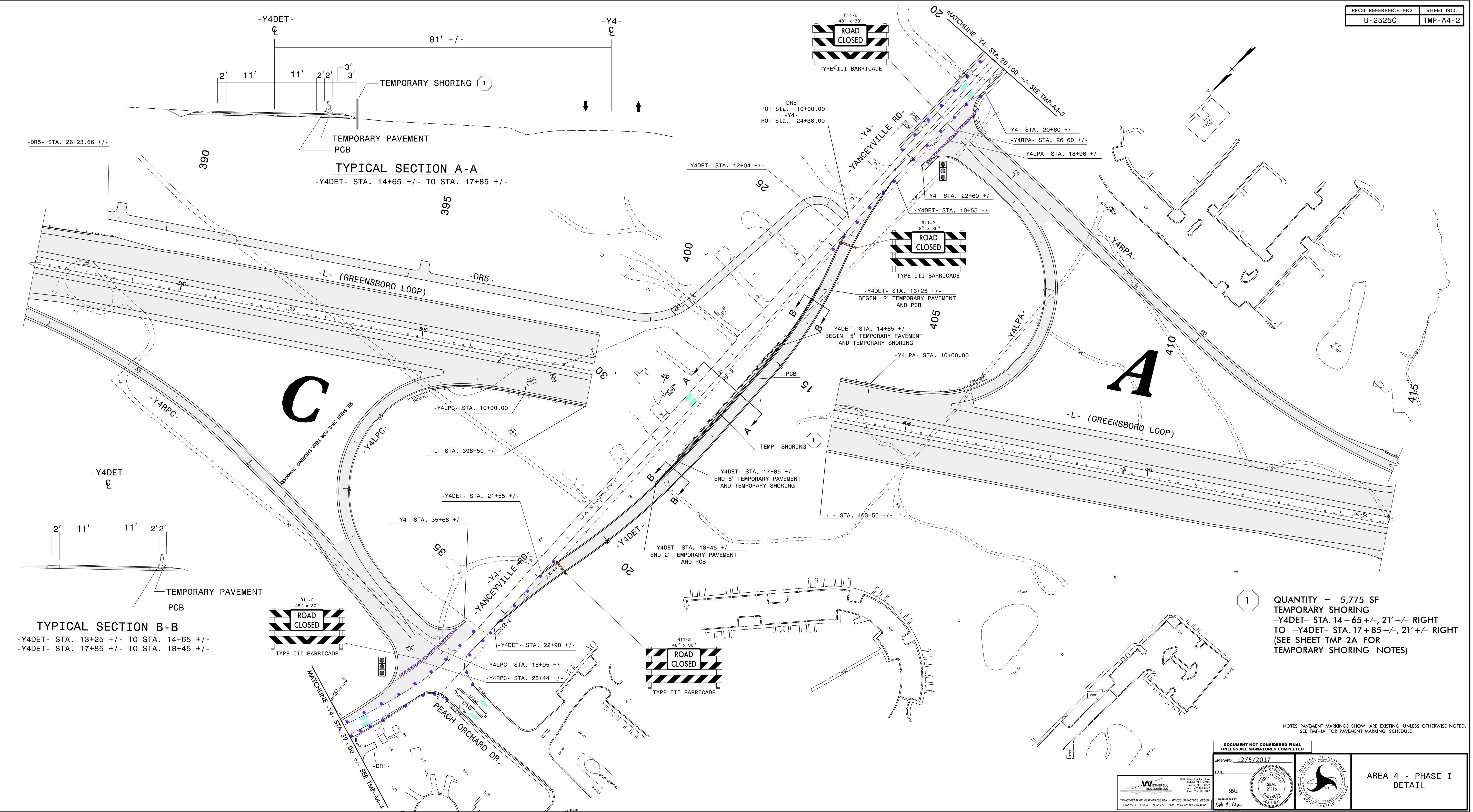
APPROVED: Bob A. May DATE: 12/5/2017



**AREA 4
PHASING**

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJ. REFERENCE NO.	SHEET NO.
U-2525C	TMP-A4-2



1 QUANTITY = 5,775 SF
 TEMPORARY SHORING
 -Y4DET- STA. 14+65 +/-, 21' +/- RIGHT
 TO -Y4DET- STA. 17+85 +/-, 21' +/- RIGHT
 (SEE SHEET TMP-2A FOR
 TEMPORARY SHORING NOTES)

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
 SEE TMP-JA FOR PAVEMENT MARKING SCHEDULE

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AREA 4 - PHASE I
 DETAIL

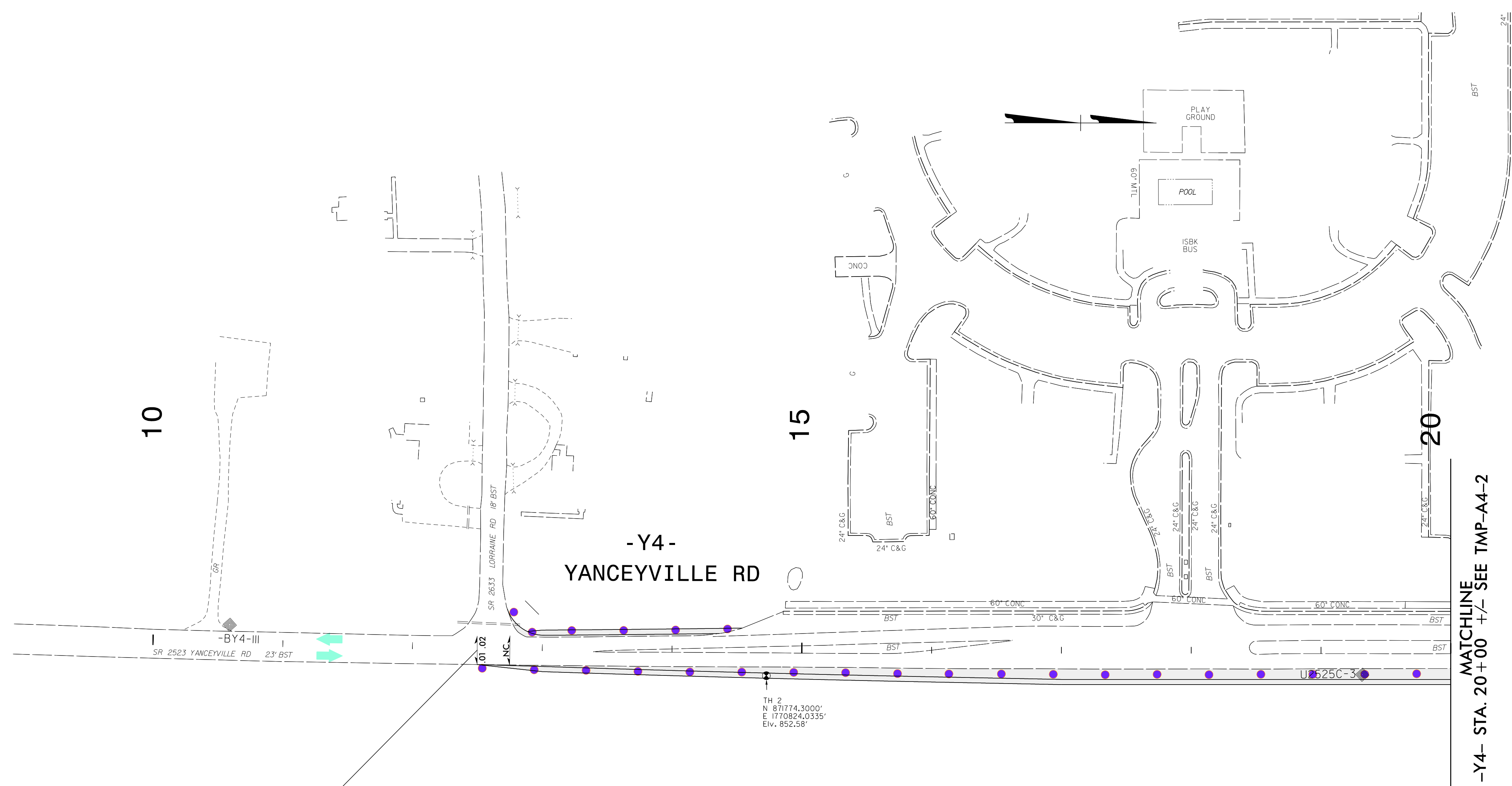
W
 WITHELL
 ENGINEERS

1333 Stone Mountain Road
 Raleigh, NC 27601
 Tel: 919 871 8111
 Fax: 919 871 8112

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURAL DESIGN
 CIVIL/SITE DESIGN - EROSION - CONSTRUCTION OBSERVATION

Designed by: *Edw. B. Blay*

PROJ. REFERENCE NO.	SHEET NO.
U-2525C	TMP-A4-3



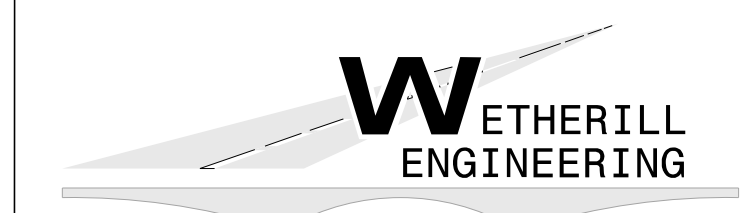
BEGIN CONSTRUCTION
-Y4- STA. 12+50 +/-

MATCHLINE
-Y4- STA. 20+00 +/- SEE TMP-A4-2

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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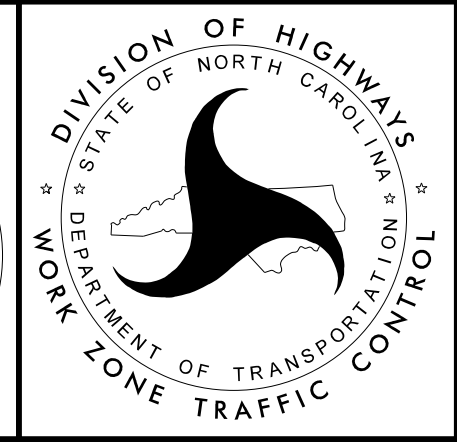


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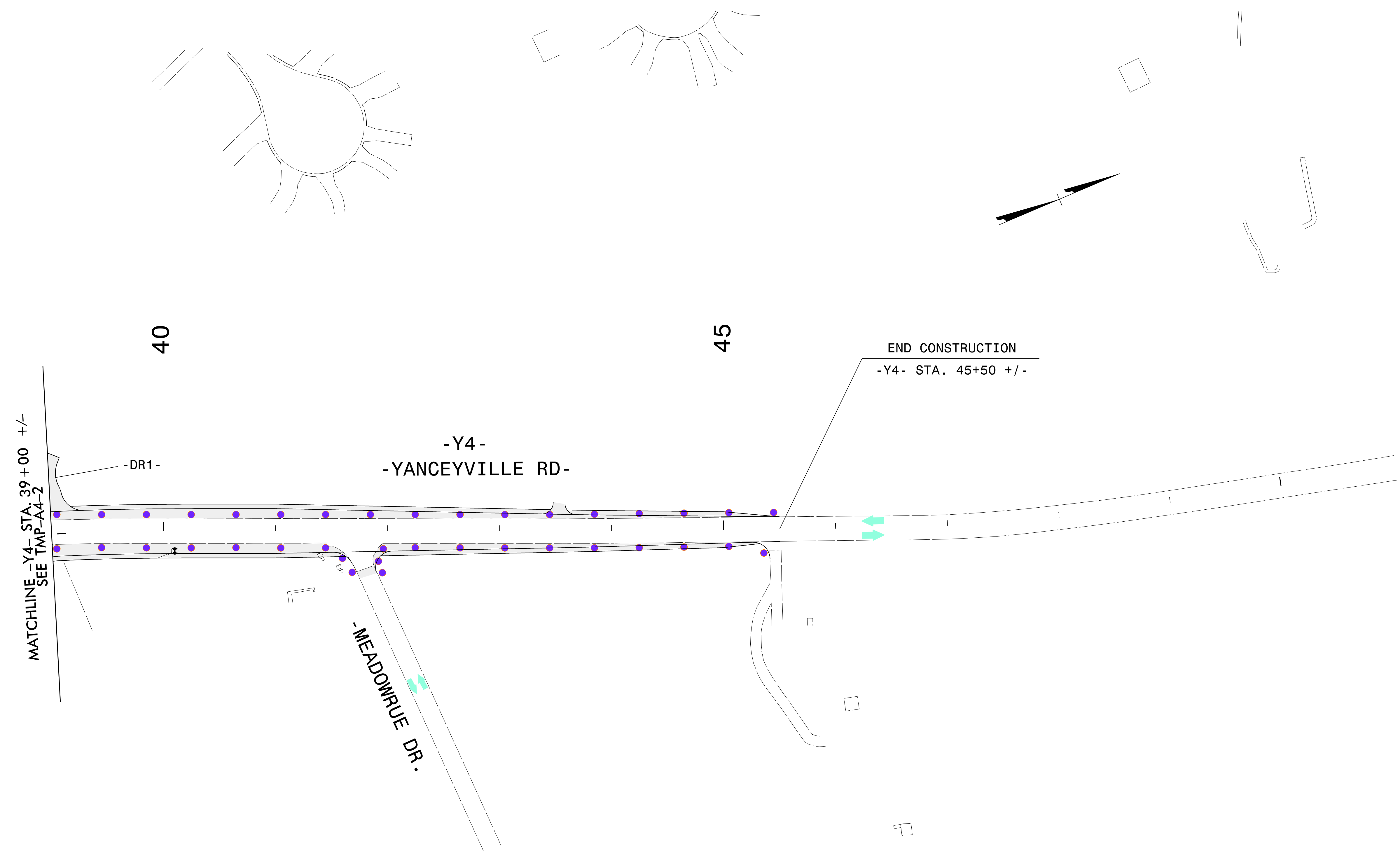
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

APPROVED: *Bob A. May*
DATE: 12/5/2017

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**AREA 4 - PHASE I
DETAIL**



NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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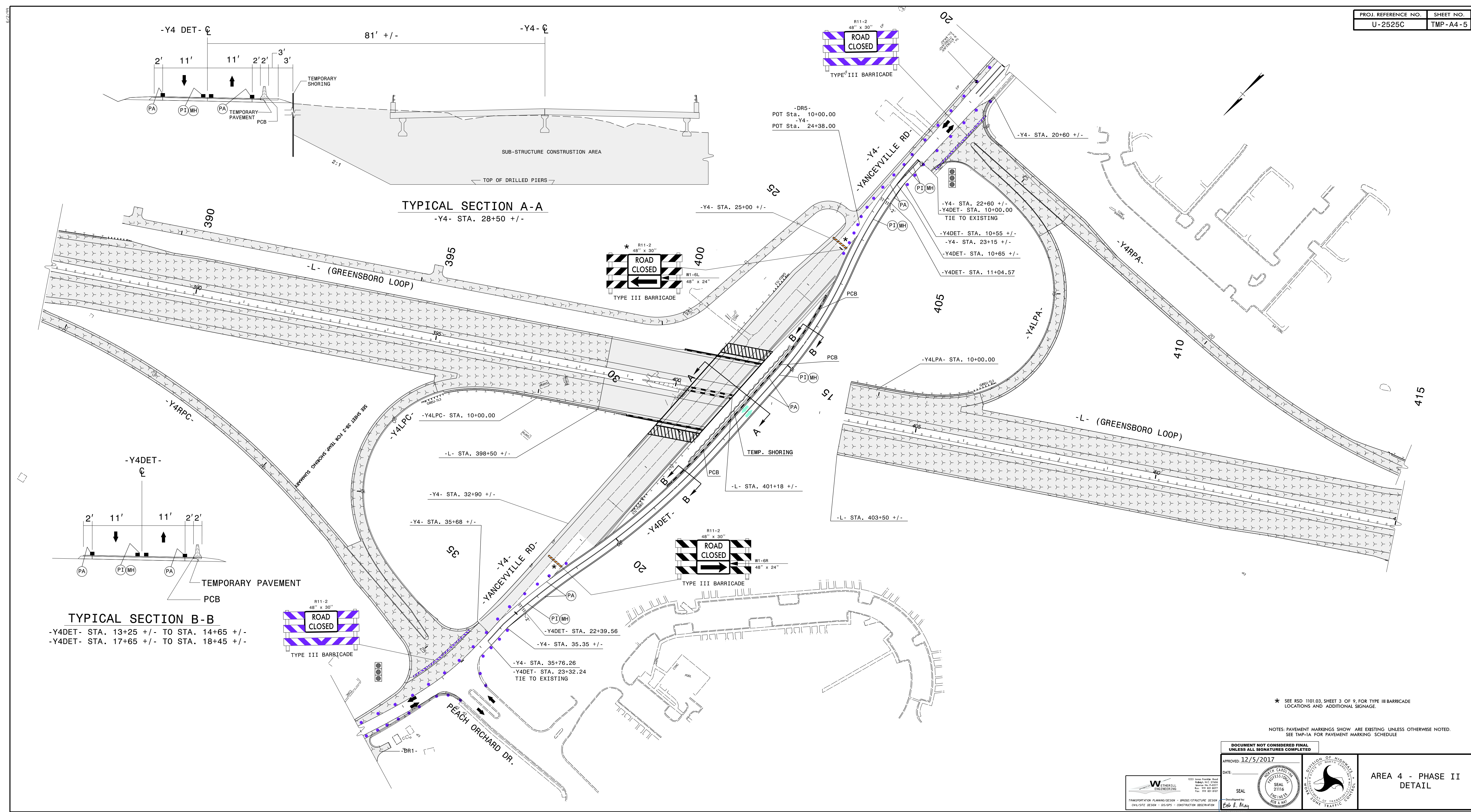
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

APPROVED: *Bob A. May*
DATE: 12/5/2017

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**AREA 4 - PHASE I
DETAIL**

PROJ. REFERENCE NO.	SHEET NO.
U-2525C	TMP-A4-5



* SEE RSD 1101.03, SHEET 3 OF 9, FOR TYPE III BARRICADE LOCATIONS AND ADDITIONAL SIGNAGE.

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE.

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DATE: 12/5/2017

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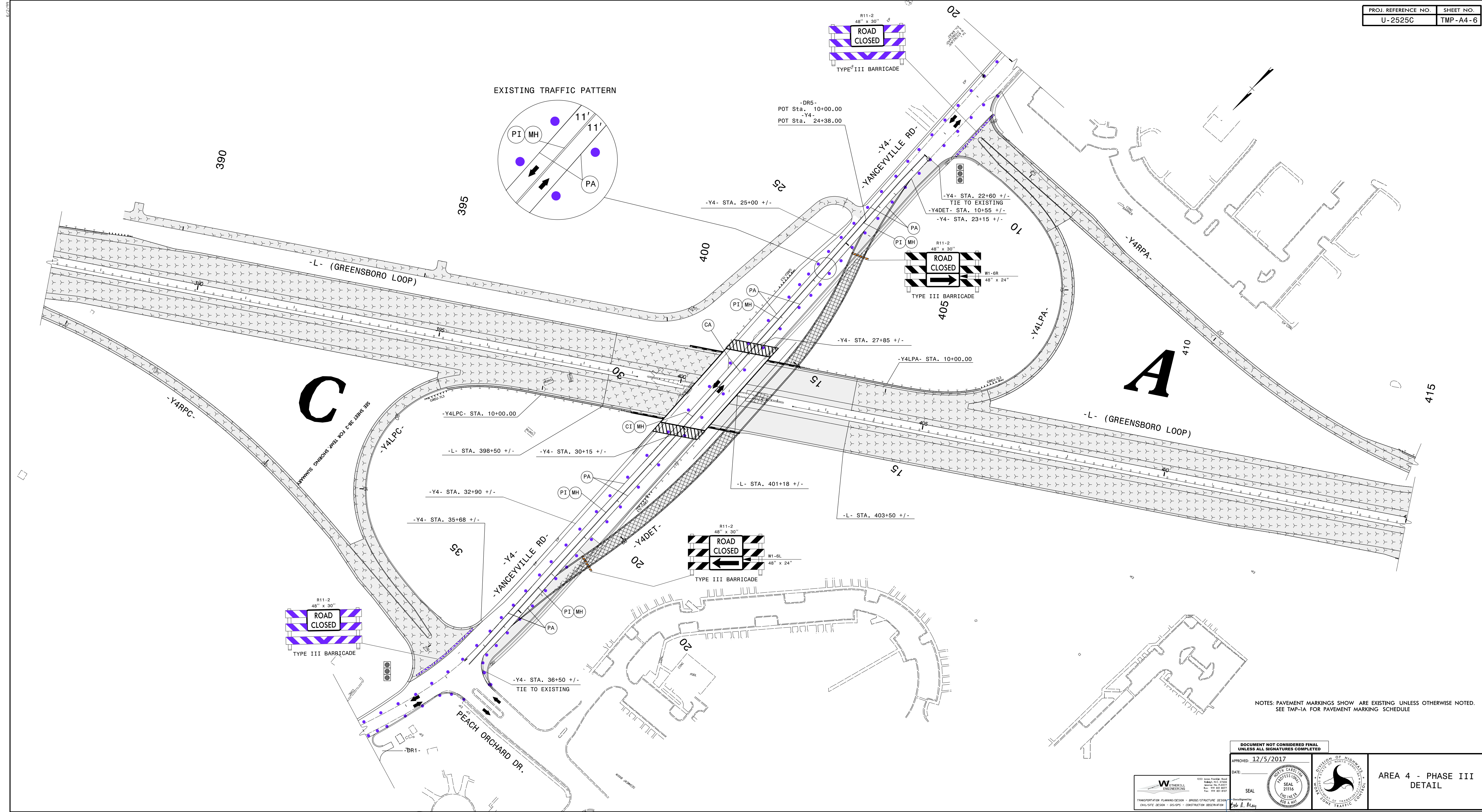
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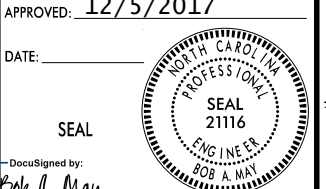
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AREA 4 - PHASE II DETAIL

PROJ. REFERENCE NO. U-2525C	SHEET NO. TMP-A4-6
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 SEAL: 21116
 IN THE STATE OF NORTH CAROLINA
 PROFESSIONAL ENGINEER
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - DESIGNER - CONSTRUCTION OBSERVATOR
**AREA 4 - PHASE III
DETAIL**

AREA 5 PHASING

NOTE: BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL:

- INSTALL ADVANCE WORK ZONE WARNING SIGNS ALONG N. CHURCH ST. (-Y5-), OLD LAKE JEANETTE RD. (-Y5A-), DREWSBURY DR. AND ALL -Y- LINES (SEE ROADWAY STANDARD DRAWING NO. 1101.01, SHEET 3 OF 3).

PHASE I

- STEP 1: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED:
- CONSTRUCT PROPOSED -Y5DET- FROM STA. 11+29 +/- -Y5DET- TO STA. 17+80 +/- -Y5DET- (INCLUDING TEMPORARY PAVEMENT, TEMPORARY SHORING & PORTABLE CONCRETE BARRIER), UP TO & INCLUDING THE FINAL LAYER OF SURFACE COURSE, AND UP TO THE EDGE & ELEVATION OF THE EXISTING FROM STA. 10+00 +/- -Y5DET- TO STA. 11+29 +/- -Y5DET- AND STA. 17+80 +/- -Y5DET- TO STA. 19+42.87 -Y5DET-. PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS, AS MUCH AS POSSIBLE AWAY FROM TRAFFIC, (SEE ROADWAY PLANS AND SHEETS TMP-A5-2 & TMP-A5-3).
- NOTE: MAINTAIN ACCESS TO DRIVEWAY LEFT OF STA. 24+75 +/- -Y5-.
- BEGIN CONSTRUCTION OF PROPOSED N. CHURCH ST. (-Y5-) WIDENING UP TO THE EDGE AND ELEVATION OF THE EXISTING, AS FOLLOWS (SEE ROADWAY PLANS AND SHEET TMP-A5-2):
- STA. 17+00 +/- -Y5- TO STA. 17+80 +/- -Y5- (LEFT SIDE)
 STA. 26+25 +/- -Y5- TO STA. 28+00 +/- -Y5- (LEFT SIDE)
 STA. 26+39 +/- -Y5- TO STA. 28+00 +/- -Y5- (RIGHT SIDE)

SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN AREA 5, PHASE I, STEP 2 WITHIN ONE WORK PERIOD.

- STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14:
- PLACE REMAINDER OF TEMPORARY PAVEMENT MARKINGS (PAINT)/MARKERS FOR -Y5DET- AND USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 3 OF 9, CLOSE EXISTING N. CHURCH ST. (-Y5-) AND OPEN -Y5DET- TO TRAFFIC (SEE SHEET TMP-A5-3).
- NOTE: MAINTAIN ACCESS TO DRIVEWAY LEFT OF STA. 17+20 +/- -Y5DET-.

PHASE II

- STEP 1: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED (SEE ROADWAY PLANS AND SHEET TMP-A5-3):
- CONSTRUCT PROPOSED N. CHURCH ST. (-Y5-) FROM STA. 18+90 +/- -Y5- TO STA. 25+00 +/- -Y5- (INCLUDING PROPOSED BRIDGE), UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, AND UP TO THE EDGE & ELEVATION OF -Y5DET- FROM STA. 17+00 +/- -Y5- TO STA. 18+90 +/- -Y5- AND STA. 25+00 +/- -Y5- TO STA. 26+39 +/- -Y5-.
 - COMPLETE CONSTRUCTION OF PROPOSED N. CHURCH ST. (-Y5-) WIDENING BEGUN IN AREA 5, PHASE I, STEP 1, AS FOLLOWS:
- STA. 17+00 +/- -Y5- TO STA. 17+80 +/- -Y5- (LEFT SIDE)
 STA. 26+25 +/- -Y5- TO STA. 28+00 +/- -Y5- (LEFT SIDE)
 STA. 26+39 +/- -Y5- TO STA. 28+00 +/- -Y5- (RIGHT SIDE)
- BEGIN CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-) FROM STA. 445+00 +/- -L- TO STA. 448+05 +/- -L-.

SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN AREA 5, PHASE II, STEP 2 WITHIN ONE WORK PERIOD.

- STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED:

- A. UTILIZING WEDGING AND PAVING OPERATIONS CONSTRUCT THE PROPOSED TIE-IN OF N. CHURCH ST. (-Y5-) FROM STA. 17+00 +/- -Y5- TO STA. 18+90 +/- -Y5- AND FROM STA. 25+00 +/- -Y5- TO STA. 28+00 +/- -Y5- UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE ROADWAY PLANS).
- B. PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS FOR THE FINAL TRAFFIC PATTERN, OPEN TO TRAFFIC AND CLOSE -Y5DET- TO TRAFFIC. (SEE FINAL PAVEMENT MARKING PLAN AND SHEET TMP-A5-4).

NOTE: MAINTAIN ACCESS TO DRIVEWAY LEFT OF STA. 24+75 +/- -Y5-.

PHASE III

- STEP 1. - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED (SEE ROADWAY PLANS AND SHEET TMP-A5-4):

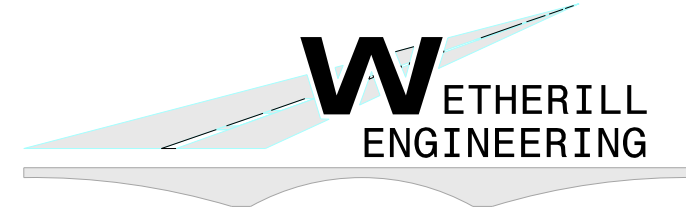
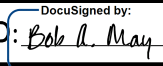
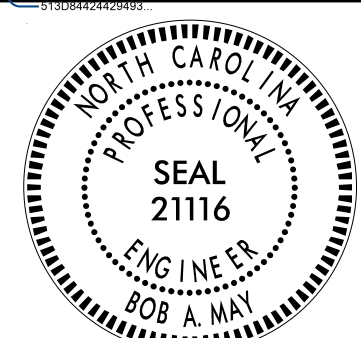
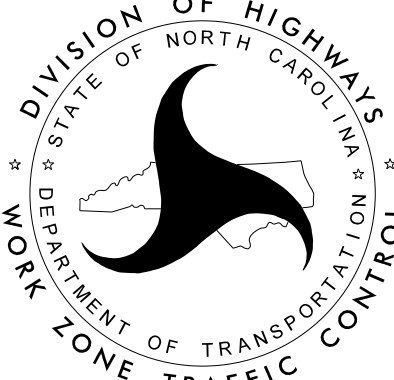
- REMOVE -Y5DET- AND CONSTRUCT REMAINDER OF PROPOSED N. CHURCH ST. (-Y5-).

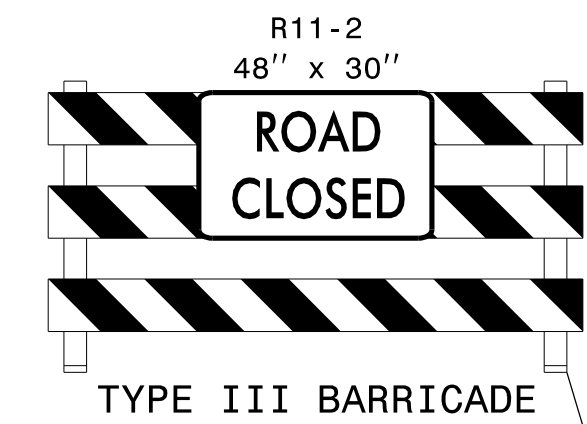
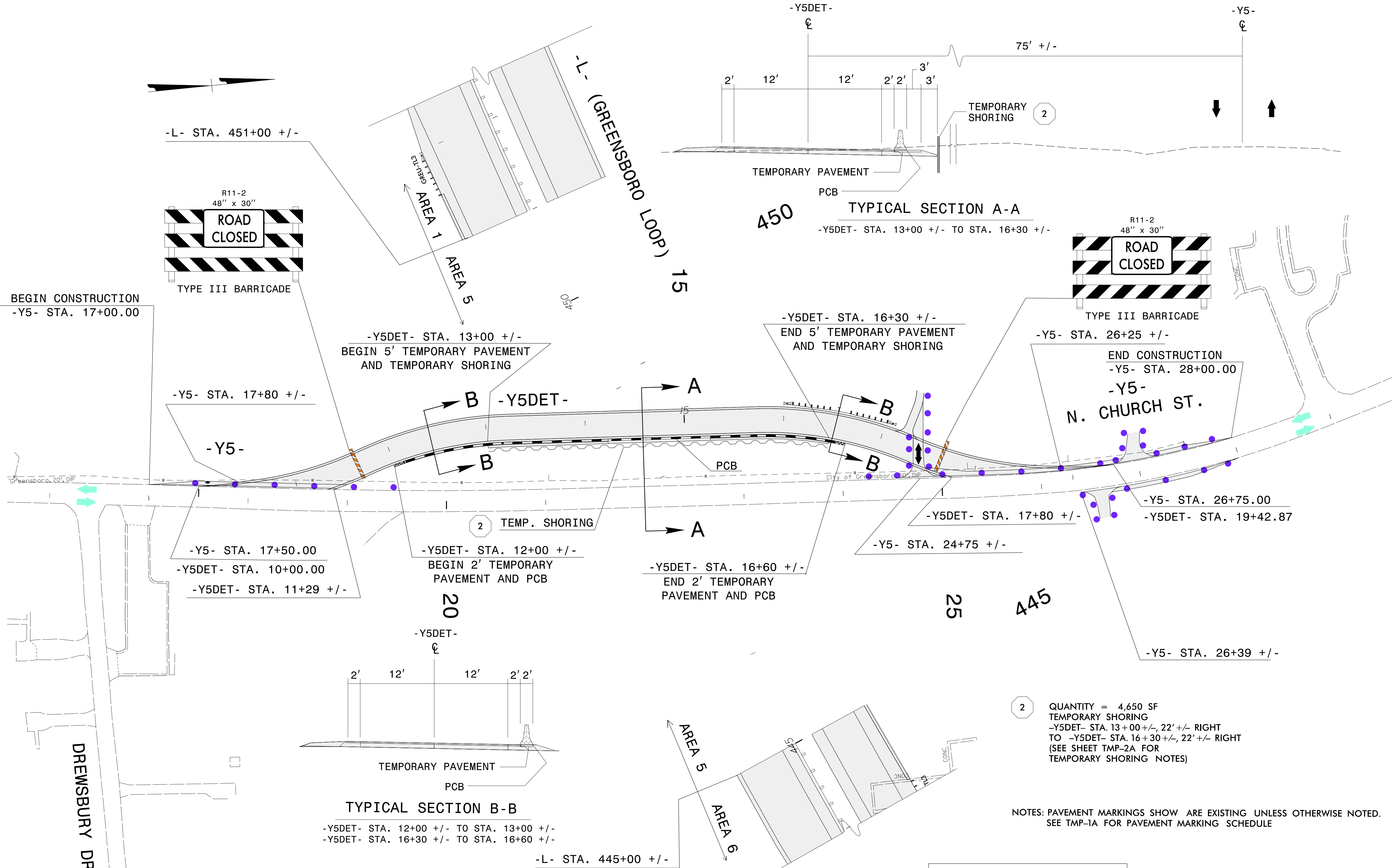
NOTE: MAINTAIN ACCESS TO DRIVEWAY LEFT OF STA. 24+75 +/- -Y5-.

- CONSTRUCT PROPOSED GREENSBORO LOOP (-L-) FROM STA. 448+05 +/- -L- TO STA. 451+00 +/- -L- AND COMPLETE CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-) FROM STA. 445+00 +/- -L- TO STA. 448+05 +/- -L-, BEGUN IN AREA 5, PHASE II, STEP 1.

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TYPICAL SECTION A-A
-Y5DET- STA. 13+00 +/- TO STA. 16+30 +/-

TYPICAL SECTION B-B
-Y5DET- STA. 12+00 +/- TO STA. 13+00 +/-
-Y5DET- STA. 16+30 +/- TO STA. 16+60 +/-

2 QUANTITY = 4,650 SF
TEMPORARY SHORING
-Y5DET- STA. 13+00 +/-, 22' +/- RIGHT
TO -Y5DET- STA. 16+30 +/-, 22' +/- RIGHT
(SEE SHEET TMP-2A FOR
TEMPORARY SHORING NOTES)

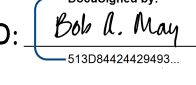
NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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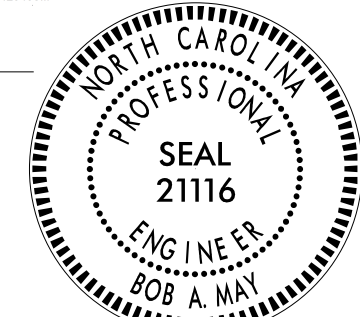
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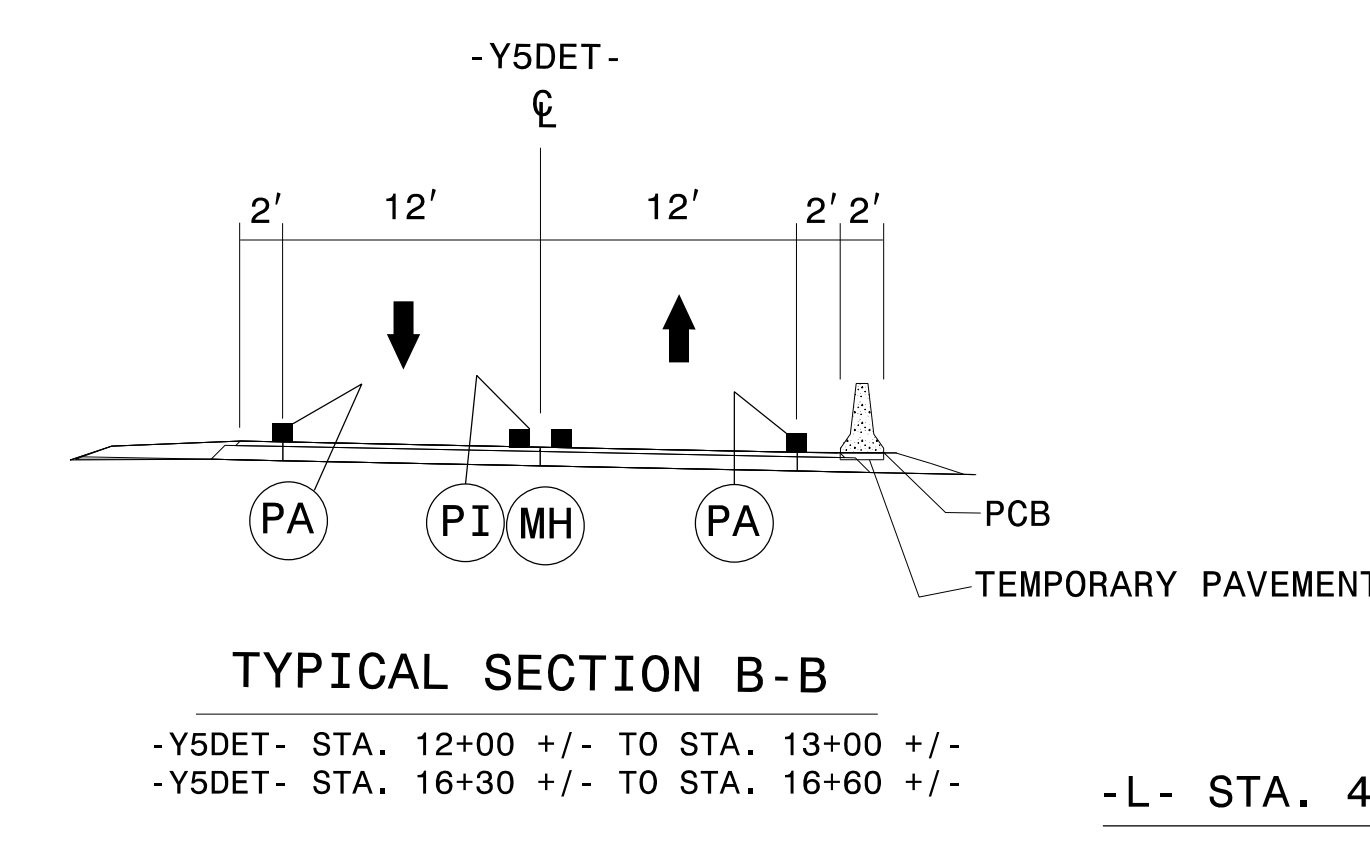
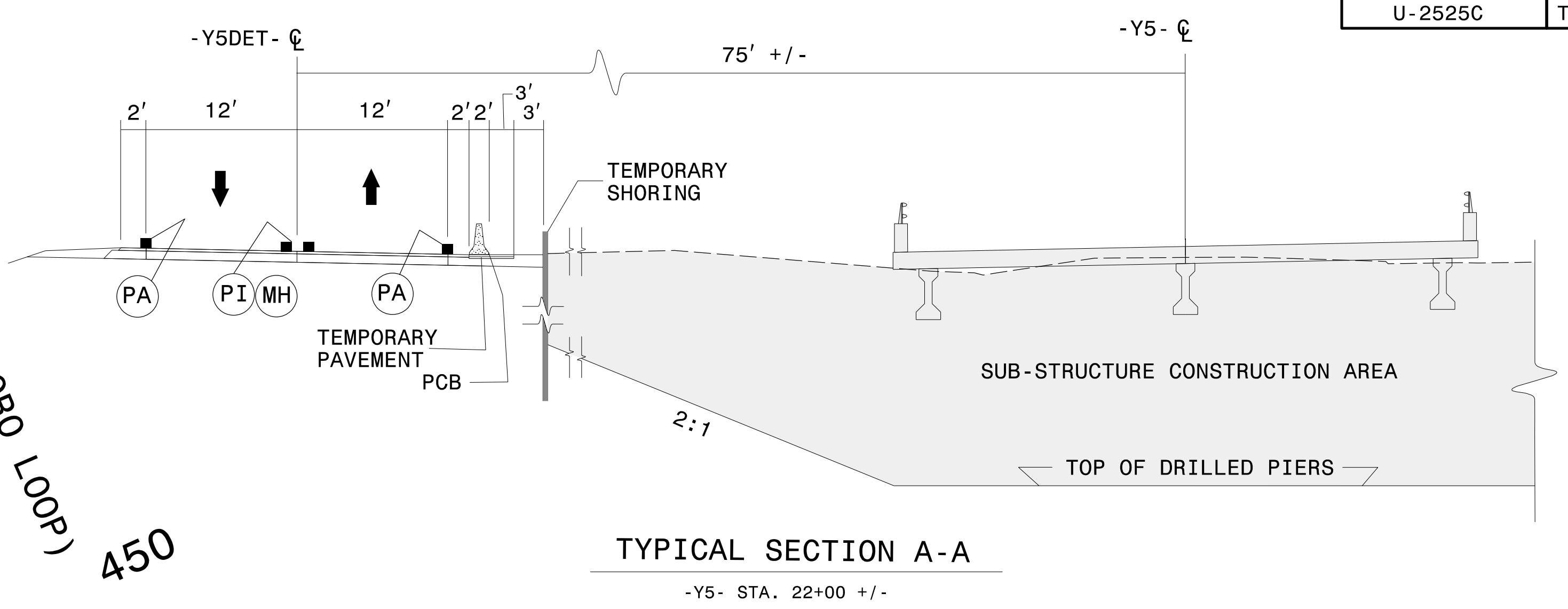
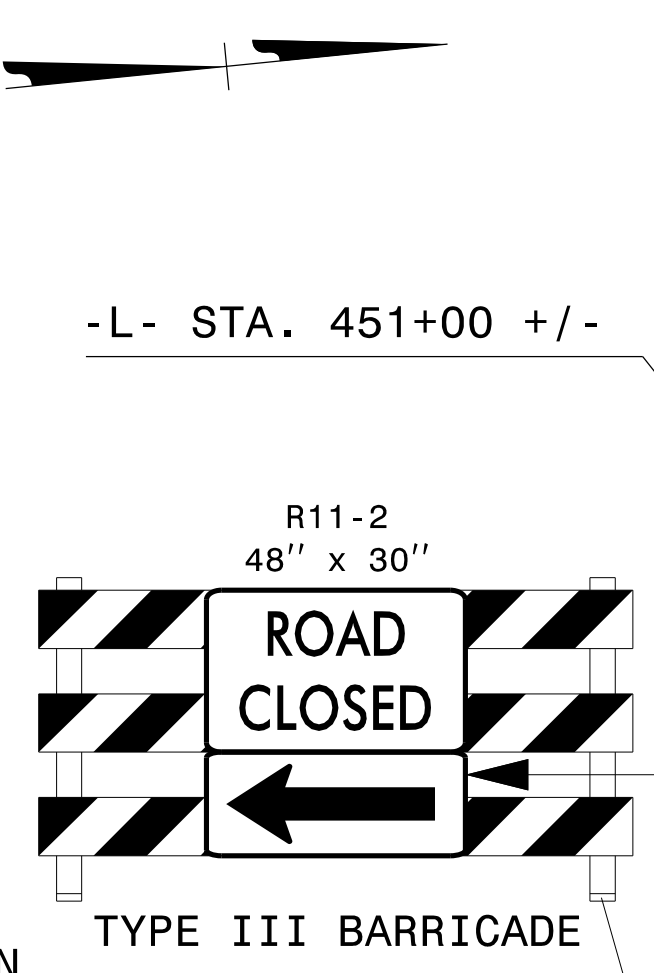
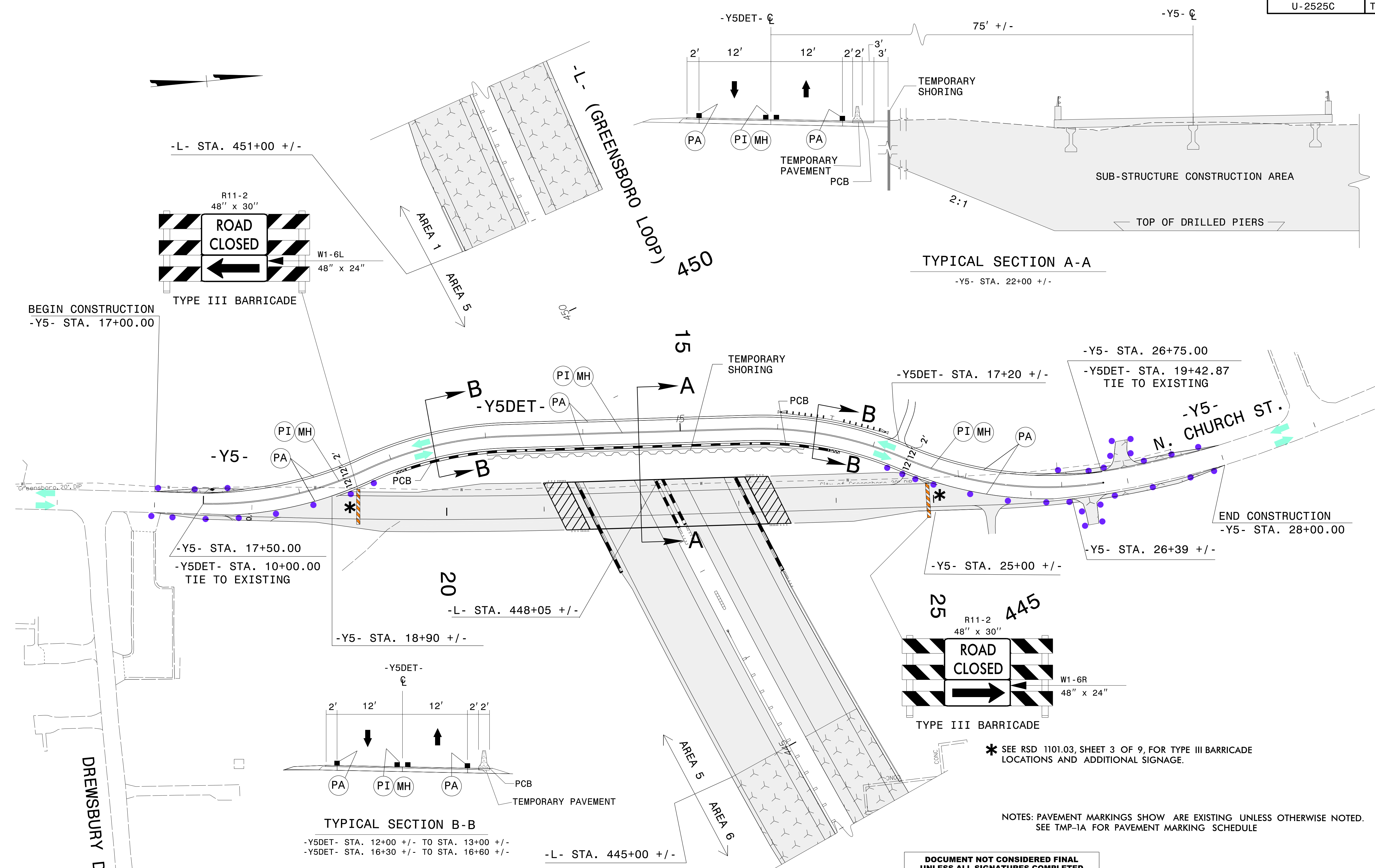
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**AREA 5 - PHASE I
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* SEE RSD 1101.03, SHEET 3 OF 9, FOR TYPE III BARRICADE LOCATIONS AND ADDITIONAL SIGNAGE.

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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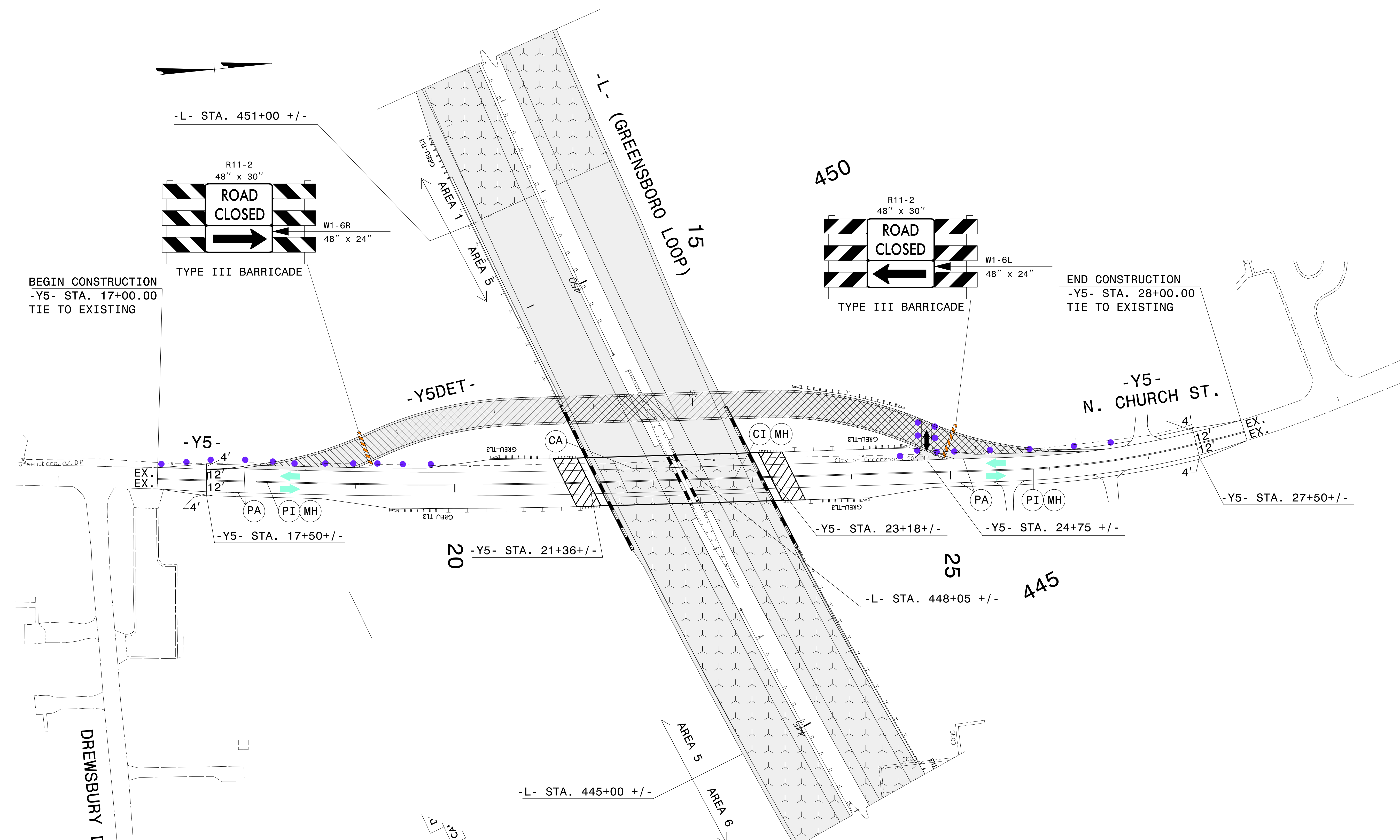
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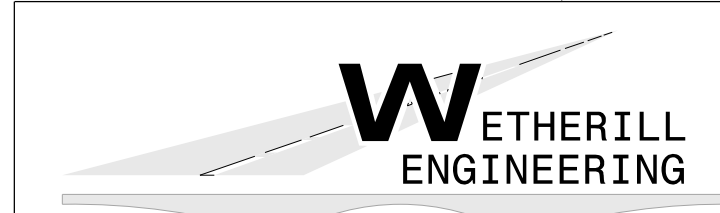
PROFESSIONAL SEAL
 NORTH CAROLINA
 ENGINEER
 BOB A. MAY
 21116

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

AREA 5 - PHASE II DETAIL



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DATE: 12/5/2017

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AREA 5 - PHASE III
DETAIL

AREA 6 PHASING

NOTE: BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL:

- INSTALL ADVANCE WORK ZONE WARNING SIGNS ALONG N. ELM ST. (-Y6-) AND KENNETH RD. (-Y6A-) (SEE ROADWAY STANDARD DRAWING NO. 1101.01, SHEET 3 OF 3).
- INSTALL TWO (2) CHANGEABLE MESSAGE SIGNS (CMS) ON N. ELM ST. (-Y6-) AS DIRECTED BY THE ENGINEER. THESE CHANGEABLE MESSAGE SIGNS ARE TO BE UTILIZED TO INFORM & ALERT THE TRAVELING PUBLIC TO TRAFFIC CONDITIONS AND MAY BE UTILIZED FOR TRAFFIC CONTROL OPERATIONS DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

PHASE I

STEP 1: - AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-) AND THE INTERCHANGE AT N. ELM ST. (-Y6-), UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, AS FOLLOWS (SEE ROADWAY PLANS AND SHEET TMP-A6-2):

STA. 451+00 +/- -L-	TO STA. 469+90 +/- -L-
STA. 471+75 +/- -L-	TO STA. 492+00 +/- -L-
STA. 10+00 +/- -Y6RPA-	TO STA. 29+08 +/- -Y6RPA-
STA. 10+00 +/- -Y6LPA-	TO STA. 20+24 +/- -Y6LPA-
STA. 10+00 +/- -Y6RPB-	TO STA. 31+90 +/- -Y6RPB-
STA. 10+00 +/- -Y6RPC-	TO STA. 27+77 +/- -Y6RPC-
STA. 10+00 +/- -Y6LPC-	TO STA. 20+85 +/- -Y6LPC-
STA. 10+00 +/- -Y6RPD-	TO STA. 27+42 +/- -Y6RPD-

STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 2, 3, 7 & 8 OF 14:

- A. REVISE EXISTING SIGNAL AT THE INTERSECTION OF N. ELM ST. (-Y6-) & UNITED HEALTHCARE/LAKE JEANNETTE OFFICE PARK DRIVEWAYS AND PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS FOR A TEMPORARY FOUR-LANE, TWO-WAY TRAFFIC PATTERN ON LEFT SIDE OF N. ELM ST. (-Y6-) FROM STA. 16+50 +/- -Y6- TO STA. 36+09 +/- -Y6- AND SHIFT TRAFFIC (SEE SIGNAL PLANS AND SHEETS TMP-A6-2 TO TMP-A6-4).**

PLACE TEMPORARY PAVEMENT MARKINGS & WATER FILLED BARRIER TO CLOSE THE RIGHT TURN LANE TO UNITED HEALTHCARE DRIVEWAY AS SHOWN ON SHEET TMP-A6-4.

- B. INSTALL WATER FILLED BARRIER ALONG THE RIGHT SIDE OF THE TEMPORARY TRAFFIC PATTERN ON N. ELM ST. (-Y6-) FROM STA. 18+00 +/- -Y6- TO STA. 33+00 +/- -Y6- . (SEE SHEETS TMP-A6-2 & TMP-A6-4).**

STEP 3: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 2, 3, 7 & 8 OF 14, AS REQUIRED:

- CONSTRUCT THE FOLLOWING (SEE ROADWAY PLANS, STRUCTURE PLANS AND SHEETS TMP-A6-2 TO TMP-A6-4):

- TEMPORARY CURB RAMP LEFT OF STA. 38+10 +/- -Y6- AND OPEN TO PEDESTRIAN TRAFFIC. CLOSE EXISTING SIDEWALK AND CONSTRUCT PROPOSED SIDEWALK (SEE CONSTRUCTION PLANS AND SHEET TMP-A6-4).

NOTE: ONCE PROPOSED SIDEWALK IS COMPLETED, OPEN TO PEDESTRIAN TRAFFIC, REPLACE WATER FILLED BARRIER WITH DRUMS AND CONSTRUCT PROPOSED CURB & GUTTER.

- PROPOSED END BENT & PROPOSED MSE WALL RIGHT SIDE OF N. ELM ST. (-Y6-) FOR PROPOSED BRIDGES OF GREENSBORO LOOP (-L-) OVER N. ELM ST. (-Y6-).

- PROPOSED RIGHT SIDE WIDENING OF N. ELM ST. (-Y6-), UP TO THE EDGE & ELEVATION OF THE EXISTING (INCLUDING PROPOSED DRAINAGE, PROPOSED CURB & GUTTER, PROPOSED SIDEWALKS AND PROPOSED PIPE/ CULVERT EXTENSIONS) FROM STA. 10+00 +/- -Y6- TO STA. 38+00 +/- -Y6-.

NOTE: CONSTRUCT TEMPORARY CURB RAMPS RIGHT & LEFT OF STA. 10+00 +/- -Y6-.

- BEGIN CONSTRUCTION/INSTALLATION OF PROPOSED SIGNALS AT THE INTERSECTIONS OF PROPOSED N. ELM ST. (-Y6-) & PROPOSED RAMPS & LOOPS (-Y6RPA-, -Y6LPA-, -Y6RPB-, -Y6RPC-, -Y6LPC- & -Y6RPD-) AND REVISE EXISTING SIGNAL AT THE INTERSECTION OF N. ELM ST. (-Y6-) & UNITED HEALTHCARE/JEANNETTE OFFICE PARK DRIVEWAYS FOR AREA 6, PHASE II (SEE SIGNAL PLANS AND SHEETS TMP-A6-2 & TMP-A6-7).

PHASE II

STEP 1: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1, 2, 3, 7 & 8 OF 14, AS REQUIRED:

- A. COMPLETE REVISED SIGNAL AT THE INTERSECTION OF N. ELM ST. (-Y6-) & UNITED HEALTHCARE/JEANNETTE OFFICE PARK DRIVEWAYS BEGUN IN AREA 6, PHASE I, STEP 3.**

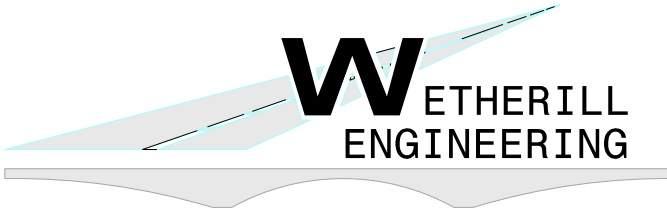
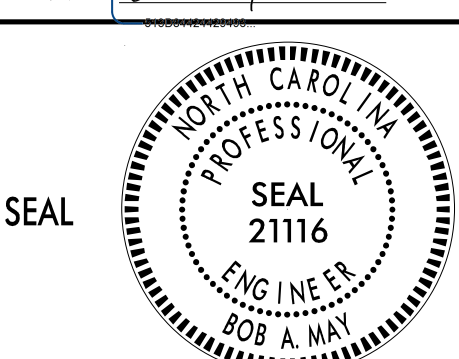
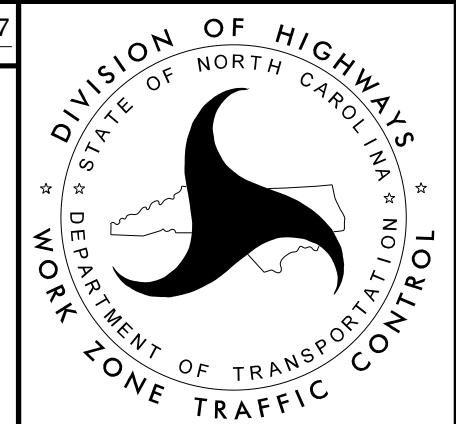
- B. REMOVE WATER FILLED BARRIER AND PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS FOR A TEMPORARY FOUR-LANE, TWO-WAY, TRAFFIC PATTERN ON NEWLY COMPLETED RIGHT SIDE OF PROPOSED N. ELM ST. (-Y6-) FROM STA. 10+00 +/- -Y6- TO STA. 37+25 +/- -Y6- AND SHIFT TRAFFIC (SEE SHEETS TMP-A6-5 TO TMP-A6-7).**

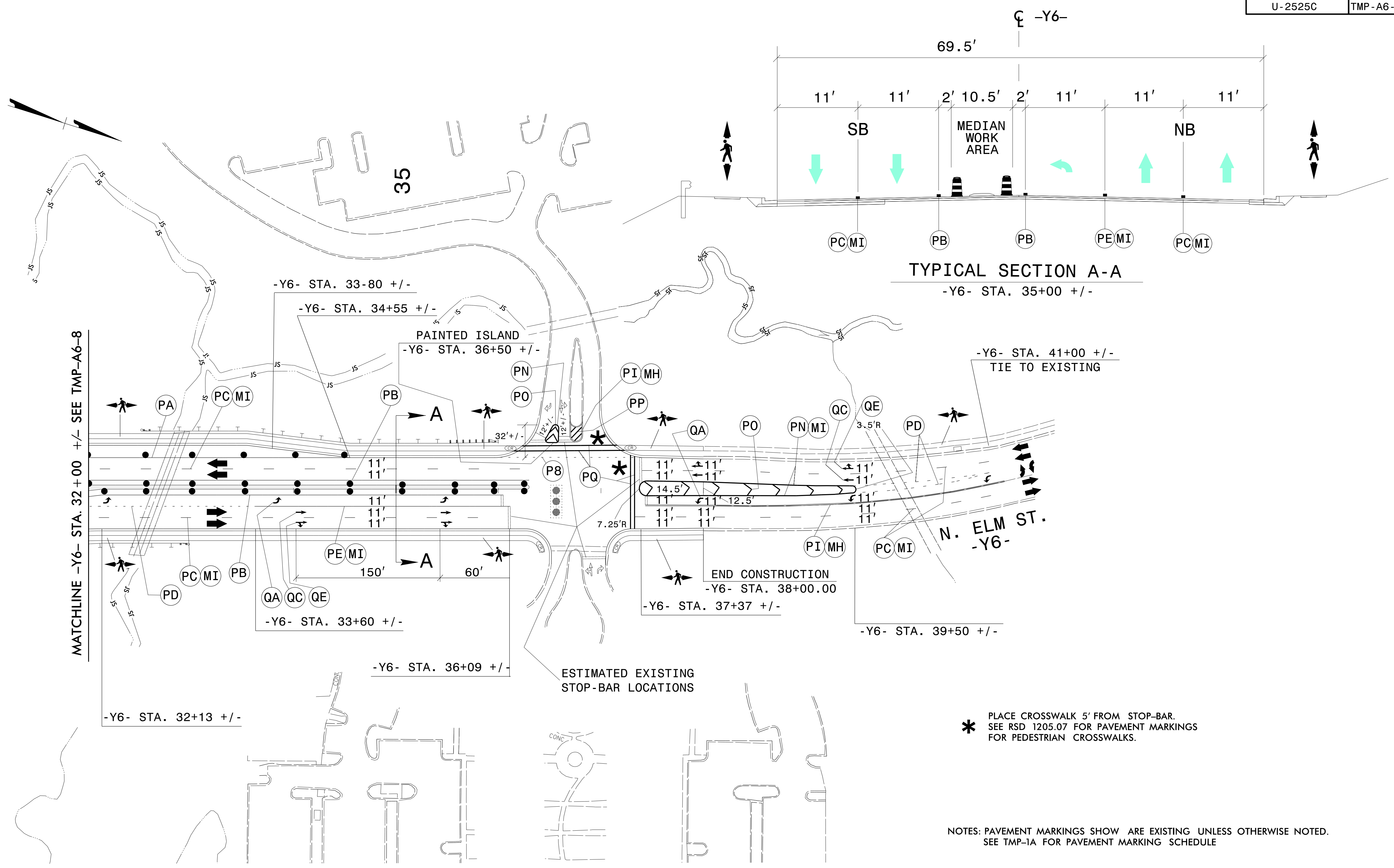
NOTE: CLOSE EXISTING SIDEWALK ON LEFT SIDE OF N. ELM ST. (-Y6-) AND DIRECT PEDESTRIANS TO UTILIZE PROPOSED SIDEWALKS ON RIGHT SIDE OF N. ELM ST. (-Y6-)(SEE SHEETS TMP-A6-5 TO TMP-A6-7).

- C. INSTALL WATER FILLED BARRIER ALONG THE LEFT SIDE OF THE TEMPORARY TRAFFIC PATTERN OF N. ELM ST. (-Y6-) FROM STA. 18+00 +/- -Y6- TO STA. 32+50 +/- -Y6- (SEE SHEETS TMP-A6-5 & TMP-A6-7).**

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 <p>WETHERILL ENGINEERING</p> <p style="font-size: small;">TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</p>	1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	APPROVED: <u>Bob A. May</u> DATE: 12/5/2017			AREA 6 PHASING
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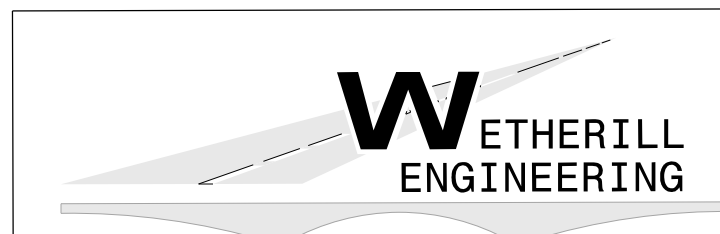
TYPICAL SECTION A-A
-Y6- STA. 35+00 +/-

MATCHLINE -Y6- STA. 32+00 +/- SEE TMP-A6-8

* PLACE CROSSWALK 5' FROM STOP-BAR.
SEE RSD 1205.07 FOR PAVEMENT MARKINGS
FOR PEDESTRIAN CROSSWALKS.

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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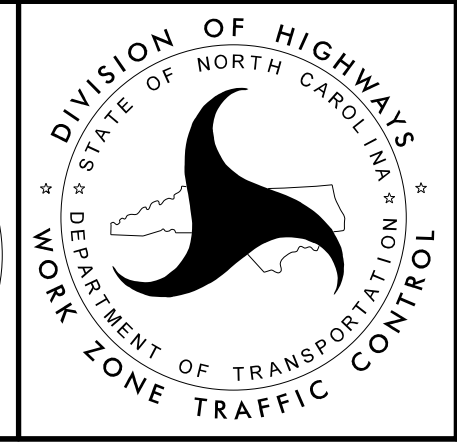
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

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APPROVED: *Bob A. May*
DATE: 12/5/2017

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**AREA 6 - PHASE III
DETAIL**

AREA 6 PHASING CONT.

STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1, 2, 3, 7 & 8 OF 14, AS REQUIRED (SEE ROADWAY PLANS, STRUCTURE PLANS AND SHEETS TMP-A6-5 TO TMP-A6-7):

-- CONSTRUCT PROPOSED END BENT AND PROPOSED MSE WALL LEFT SIDE OF N. ELM ST. (-Y6-) FOR PROPOSED BRIDGES ON GREENSBORO LOOP (-L-) OVER N. ELM ST. (-Y6-).

-- CONSTRUCT PROPOSED LEFT SIDE WIDENING OF N. ELM ST. (-Y6-), UP TO THE EDGE & ELEVATION OF THE EXISTING (INCLUDING PROPOSED DRAINAGE, PROPOSED CURB & GUTTER, PROPOSED SIDEWALKS AND PROPOSED PIPE/CULVERT EXTENSIONS) FROM STA. 10+00 +/- -Y6- TO STA. 38+00 +/- -Y6-.

NOTE: PROPOSED GIRDERS MAY BE INSTALLED AT THIS TIME UTILIZING ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 & 2 OF 9 & OFF-SITE DETOUR ON SHEET TMP-2D TO CLOSE EXISTING N. ELM ST. (-Y6-) AND GENERAL NOTE "C" ON TMP-1C FOR TIME RESTRICTIONS.

NOTE: ONCE PROPOSED GIRDERS ARE INSTALLED, BEGIN CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-) BRIDGES OVER N. ELM ST. (-Y6-) (SEE ROADWAY PLANS AND STRUCTURE PLANS).

NOTE: PROTECTIVE CANOPIES ARE REQUIRED OVER SIDEWALKS FOR PEDESTRIANS (SEE SPECIAL PROVISIONS).

-- REVISE EXISTING SIGNAL AT THE INTERSECTION OF N. ELM ST. (-Y6-) & UNITED HEALTHCARE/JEANETTE OFFICE PARK DRIVEWAYS FOR AREA 6, PHASE II, STEP 3 (SEE SIGNAL PLANS AND SHEET TMP-A6-10).

- BEGIN CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-) FROM STA. 470+90 +/- -L- TO STA. 471+75 +/- -L-, UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE ROADWAY PLANS AND SHEET TMP-A6-5).

STEP 3: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 2, 3, 7 & 8 OF 14, AS REQUIRED:

A. REMOVE WATER FILLED BARRIER AND UTILIZING WEDGING & PAVING OPERATIONS CONSTRUCT PROPOSED N. ELM ST. (-Y6-), UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM STA. 10+00 +/- -Y6- TO STA. 38+00 +/- -Y6- UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE ROADWAY PLANS).

B. PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS FOR A TEMPORARY FOUR-LANE (11' LANES), DIVIDED TRAFFIC PATTERN ON N. ELM ST. (-Y6-) AND SHIFT TRAFFIC (SEE SHEETS TMP-A6-8 TO TMP-A6-10).

NOTE: OPEN PROPOSED SIDEWALKS ON BOTH SIDES OF N. ELM ST. (-Y6-) TO PEDESTRIANS (SEE SHEETS TMP-A6-8 TO TMP-A6-10).

NOTE: DRUM OFF PROPOSED RIGHT TURN LANES TO PROPOSED RAMPS/LOOPS (-Y6LPA-, -Y6RPB-, -Y6LPC- & -Y6RPD-), AS DIRECTED BY THE ENGINEER.

PHASE III

STEP 1: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1, 2, 3, 7 & 8 OF 14, AS REQUIRED:

A. REVISE EXISTING SIGNAL AT THE INTERSECTION OF N. ELM ST. (-Y6-) & UNITED HEALTHCARE/JEANETTE OFFICE PARK DRIVEWAYS FOR FINAL TRAFFIC PATTERN. CONSTRUCT PROPOSED MEDIAN & PROPOSED CONCRETE MONOLITHIC ISLANDS AND PROPOSED DRAINAGE ON N. ELM ST. (-Y6-) (SEE ROADWAY PLANS, SIGNAL PLANS, FINAL PAVEMENT MARKING PLANS AND SHEETS TMP-A6-8 TO TMP-A6-10).

B. PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS FOR THE FINAL TRAFFIC PATTERN AND OPEN TO TRAFFIC (SEE FINAL PAVEMENT MARKING PLANS).

NOTE: DRUM OFF PROPOSED RIGHT TURN LANES TO PROPOSED RAMPS/LOOPS (-Y6LPA-, -Y6RPB-, -Y6LPC- & -Y6RPD-), AS DIRECTED BY THE ENGINEER.

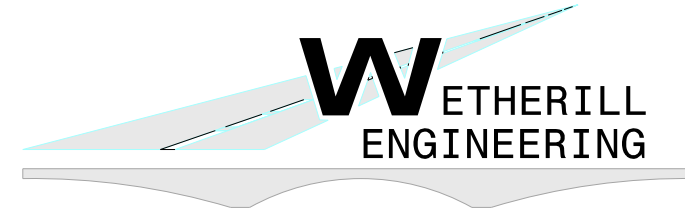
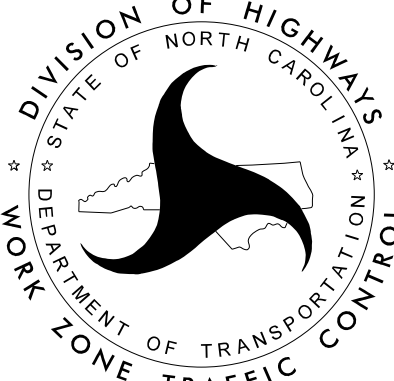
- COMPLETE CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-) AND THE INTERCHANGE AT N. ELM ST. (-Y6-), BEGUN IN AREA 6, PHASE I, STEP 1 & AREA 6, PHASE II, STEP 2 AND PROPOSED BRIDGES OVER N. ELM ST. (-Y6-) BEGUN IN AREA 6, PHASE II, STEP 2:

STA. 451+00 +/- -L-	TO STA. 469+90 +/- -L-
STA. 470+90 +/- -L-	TO STA. 492+00 +/- -L-
STA. 10+00 +/- -Y6RPA-	TO STA. 29+08 +/- -Y6RPA-
STA. 10+00 +/- -Y6LPA-	TO STA. 20+24 +/- -Y6LPA-
STA. 10+00 +/- -Y6RPB-	TO STA. 31+90 +/- -Y6RPB-
STA. 10+00 +/- -Y6RPC-	TO STA. 27+77 +/- -Y6RPC-
STA. 10+00 +/- -Y6LPC-	TO STA. 20+85 +/- -Y6LPC-
STA. 10+00 +/- -Y6RPD-	TO STA. 27+42 +/- -Y6RPD-

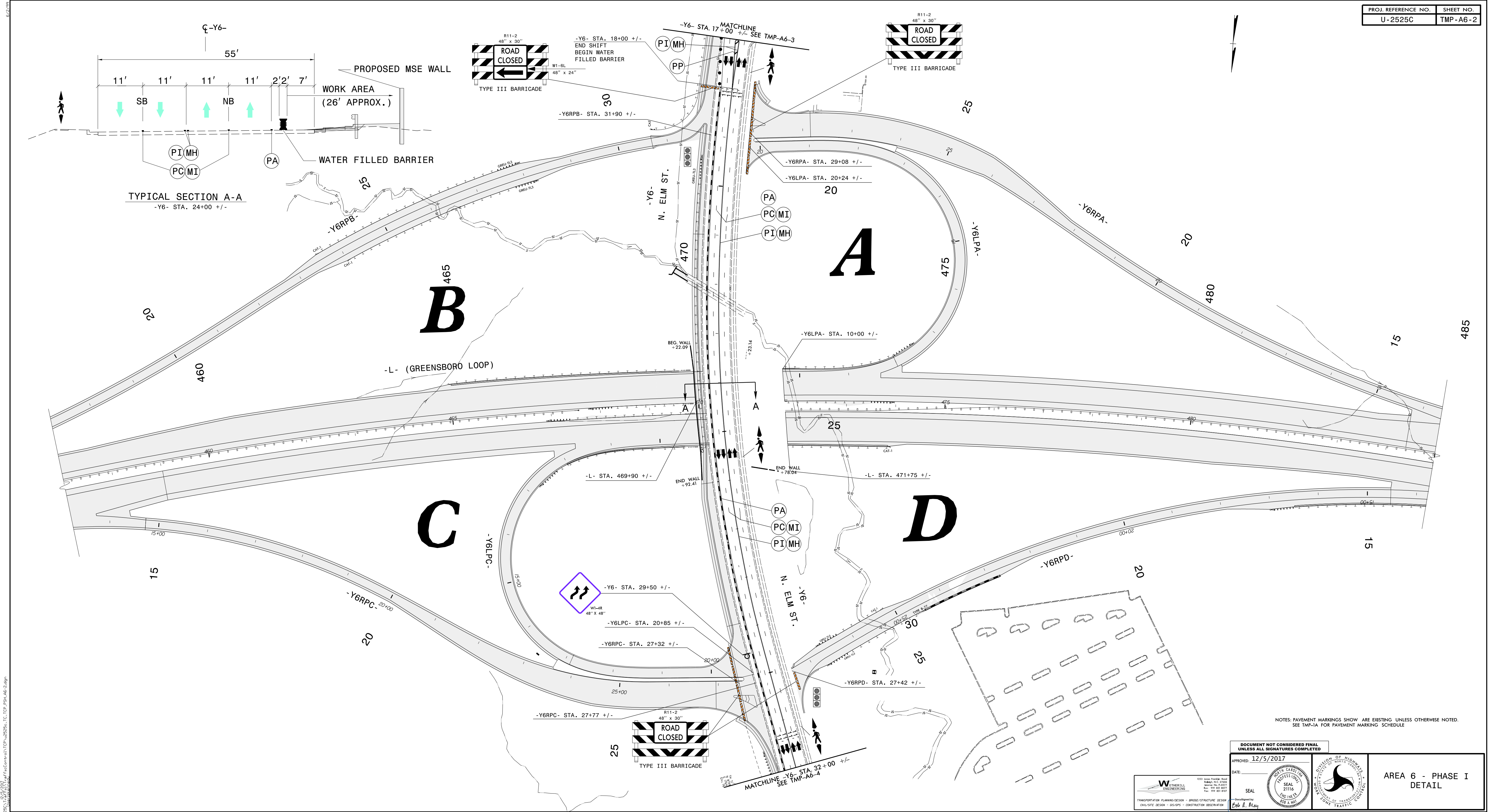
NOTE: INSTALL TYPE III BARRICADES TO KEEP PROPOSED RAMPS & LOOPS CLOSED, AS DIRECTED BY THE ENGINEER.

- COMPLETE CONSTRUCTION/INSTALLATION OF PROPOSED SIGNALS AT THE INTERSECTIONS OF PROPOSED N. ELM ST. (-Y6-) AND PROPOSED RAMPS & LOOPS (-Y6RPA-, -Y6LPA-, -Y6RPB-, -Y6RPC-, -Y6LPC- & -Y6RPD-) BEGUN IN AREA 6, PHASE I, STEP 3, BUT DO NOT ACTIVATE.

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AREA 6 PHASING			

PROJ. REFERENCE NO.	SHEET NO.
U-2525C	TMP-A6-2



TYPICAL SECTION A-A
 -Y6- STA. 24+00 +/-

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE.

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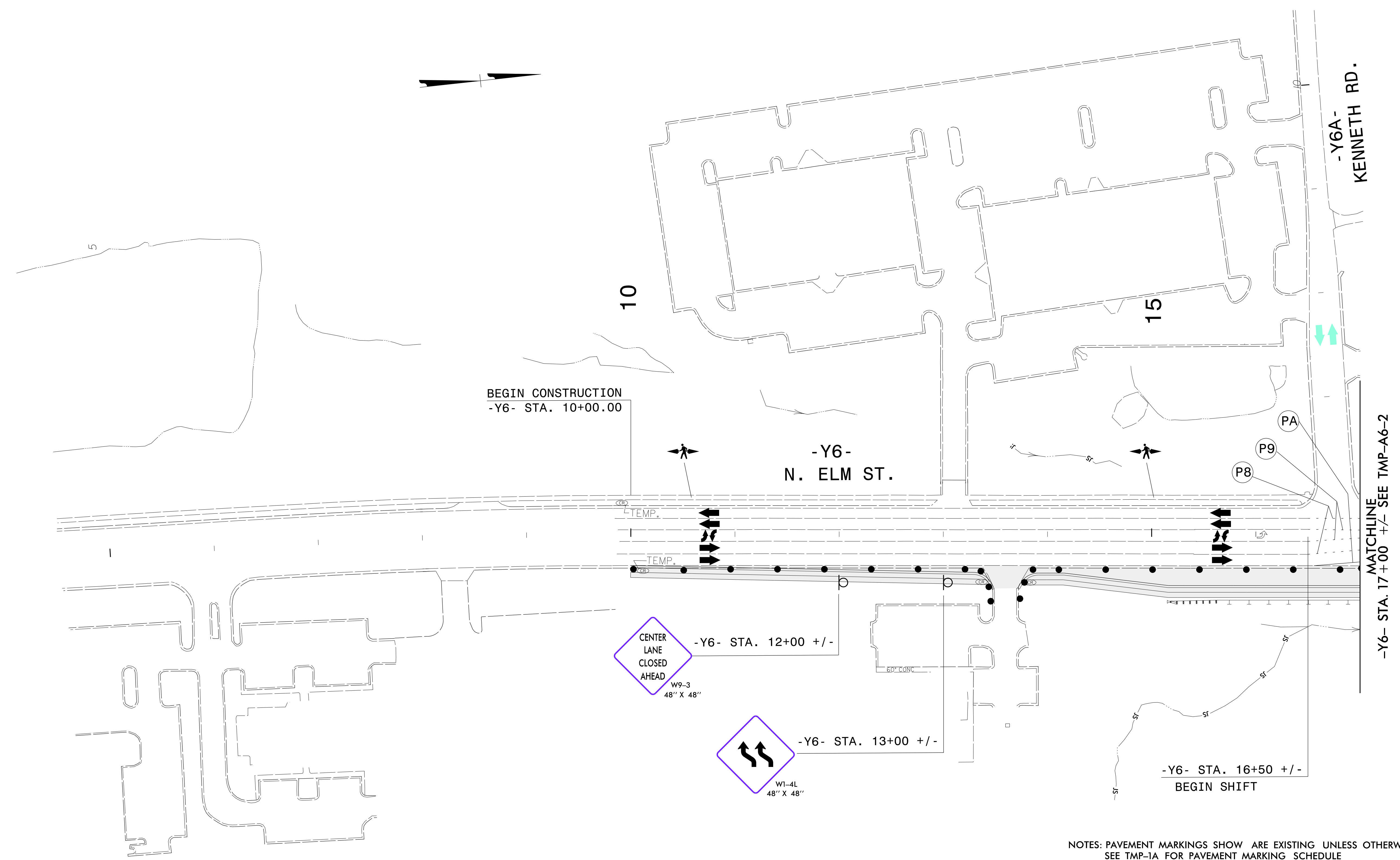
W
 WHEELER ENGINEERING
 1111 Jones Ferry Road
 Raleigh, NC 27615
 TEL: 919.833.8800
 FAX: 919.833.8801
 WWW: WHEELERENGINEERING.COM

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 2116
 INSTEAD
 PAUL H. HAY

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAY TRANSPORTATION
 ROAD & TRAFFIC ENGINEERING

AREA 6 - PHASE I
 DETAIL

PROJ. REFERENCE NO.	SHEET NO.
U-2525C	TMP-A6-3



NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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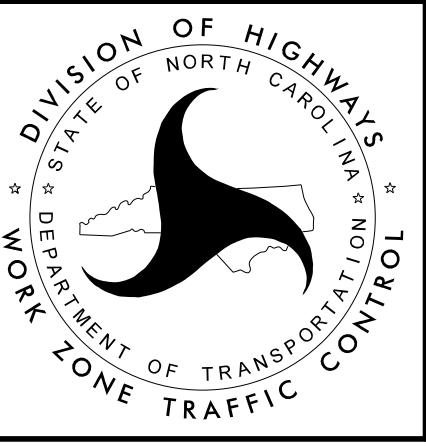
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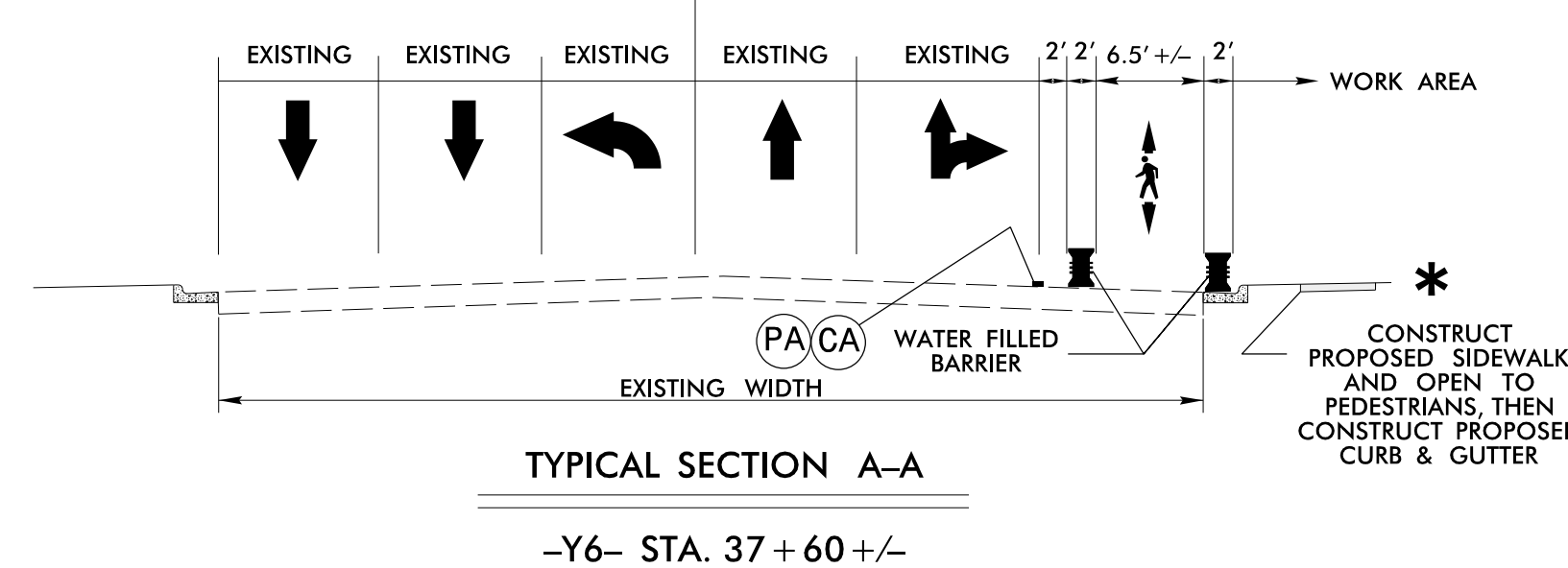
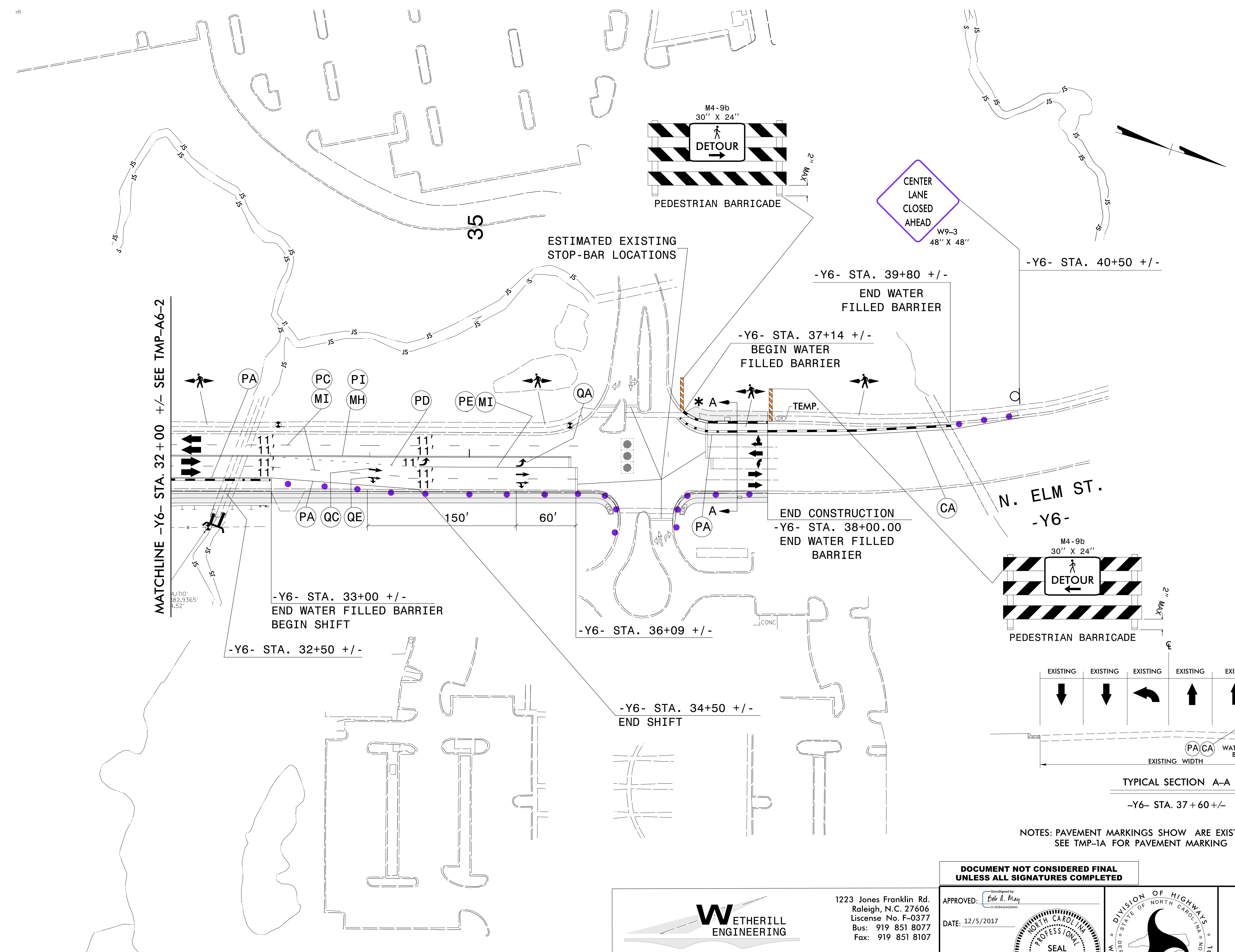
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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DATE: 12/5/2017

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**AREA 6 - PHASE I
DETAIL**



NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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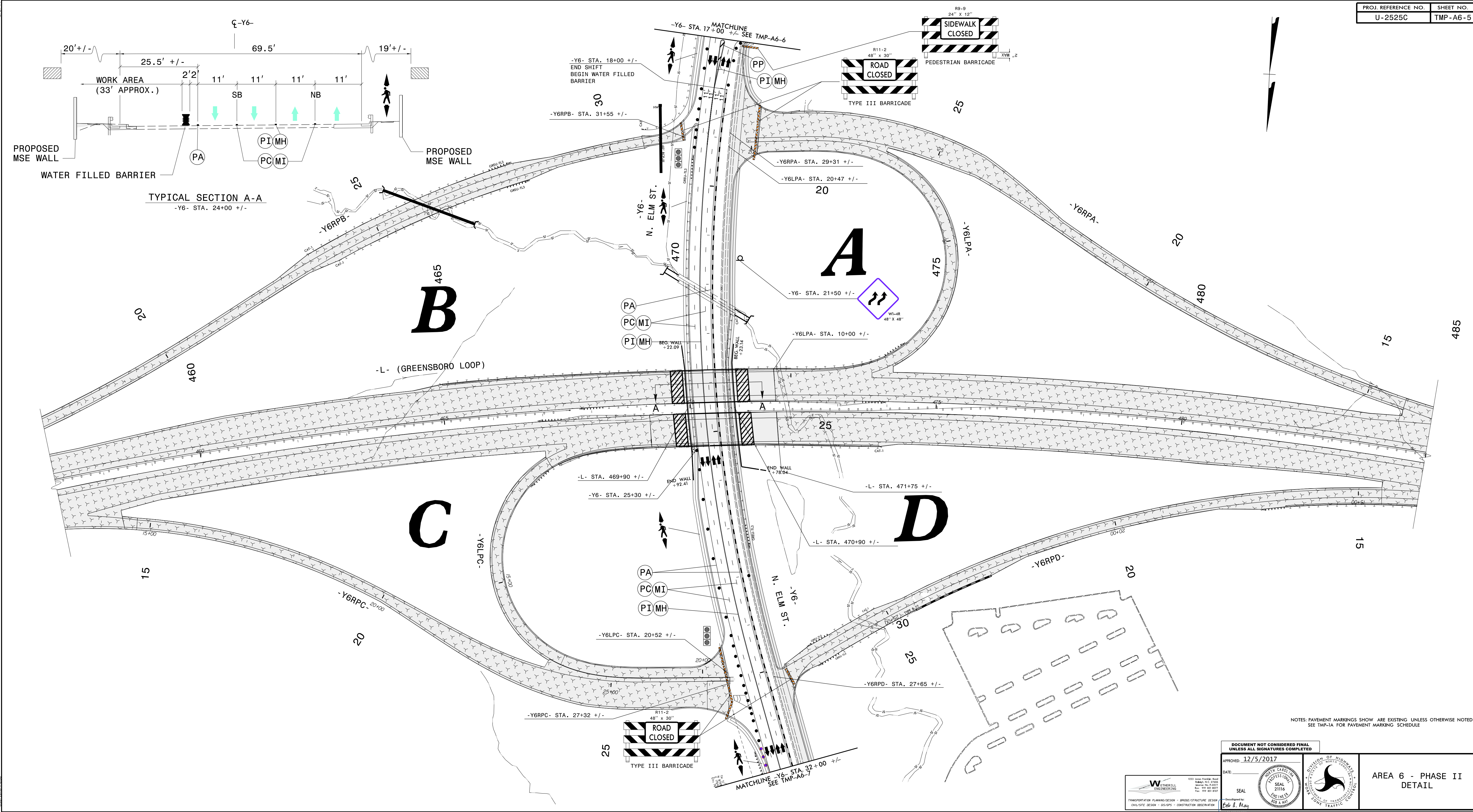
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**AREA 6 - PHASE I
DETAIL**



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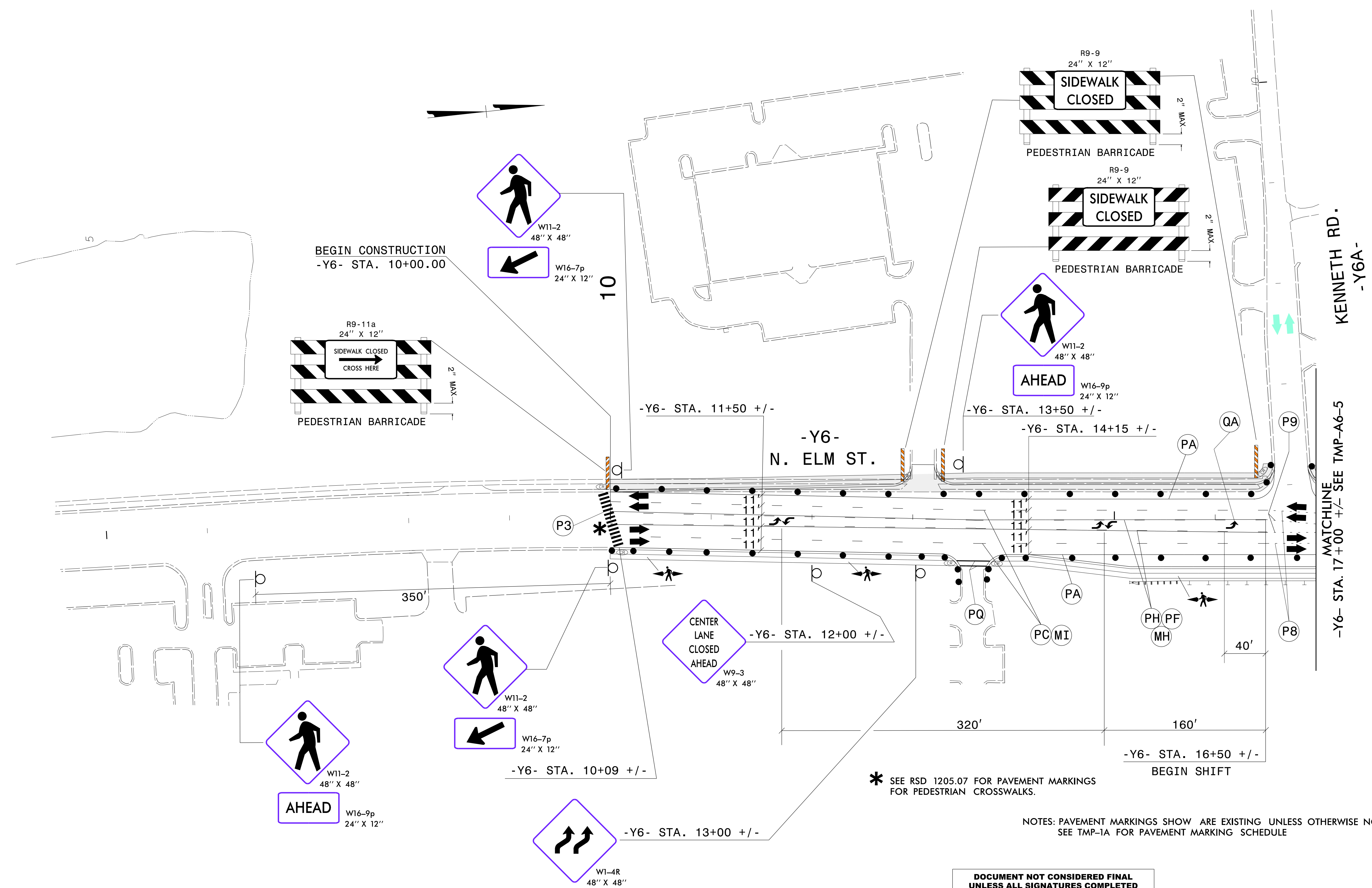
1113 Jones Road
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Tel: 919 851 8000
Fax: 919 851 8001

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ENVIRONMENTAL DESIGN - DESIGN - CONSTRUCTION OBSERVATION

Prepared by:
Paul H. Kelly

AREA 6 - PHASE II
DETAIL

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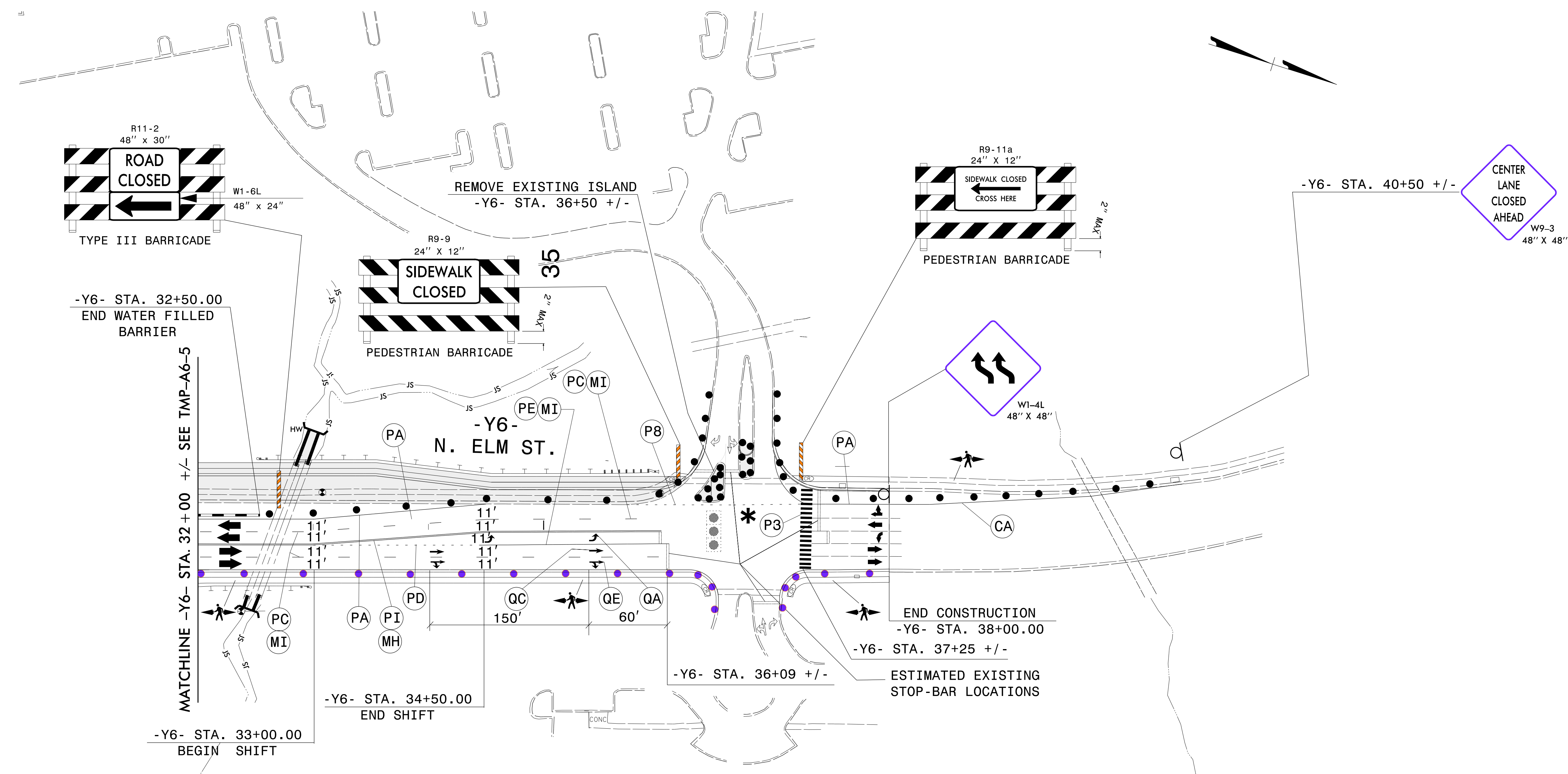
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**NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
21116
BOB A. MAY**

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

**AREA 6 - PHASE II
DETAIL**



* PLACE CROSSWALK 5' FROM STOP-BAR.
SEE RSD 1205.07 FOR PAVEMENT MARKINGS
FOR PEDESTRIAN CROSSWALKS.

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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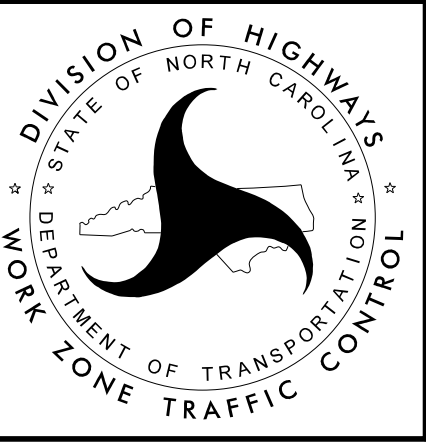
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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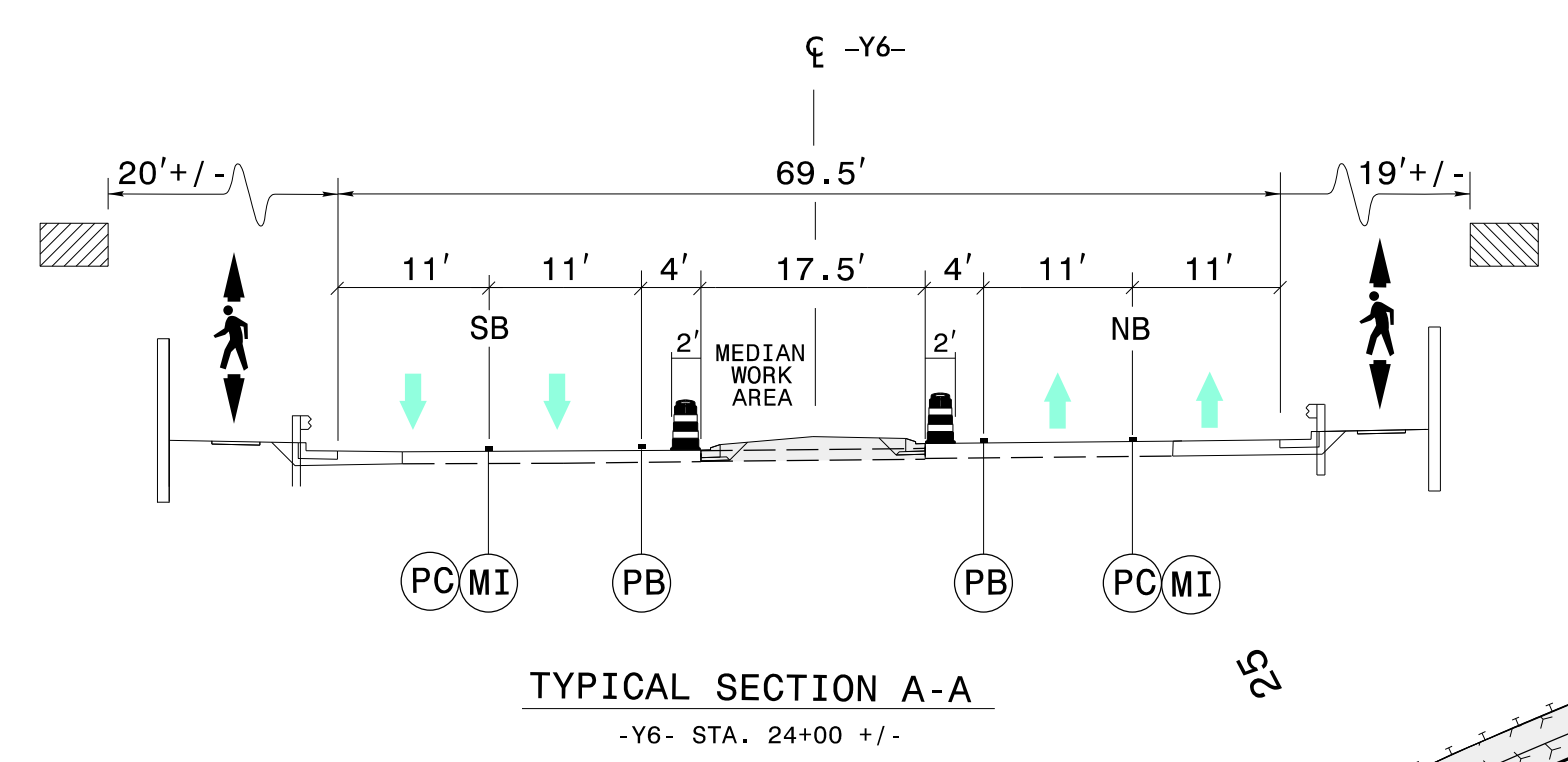
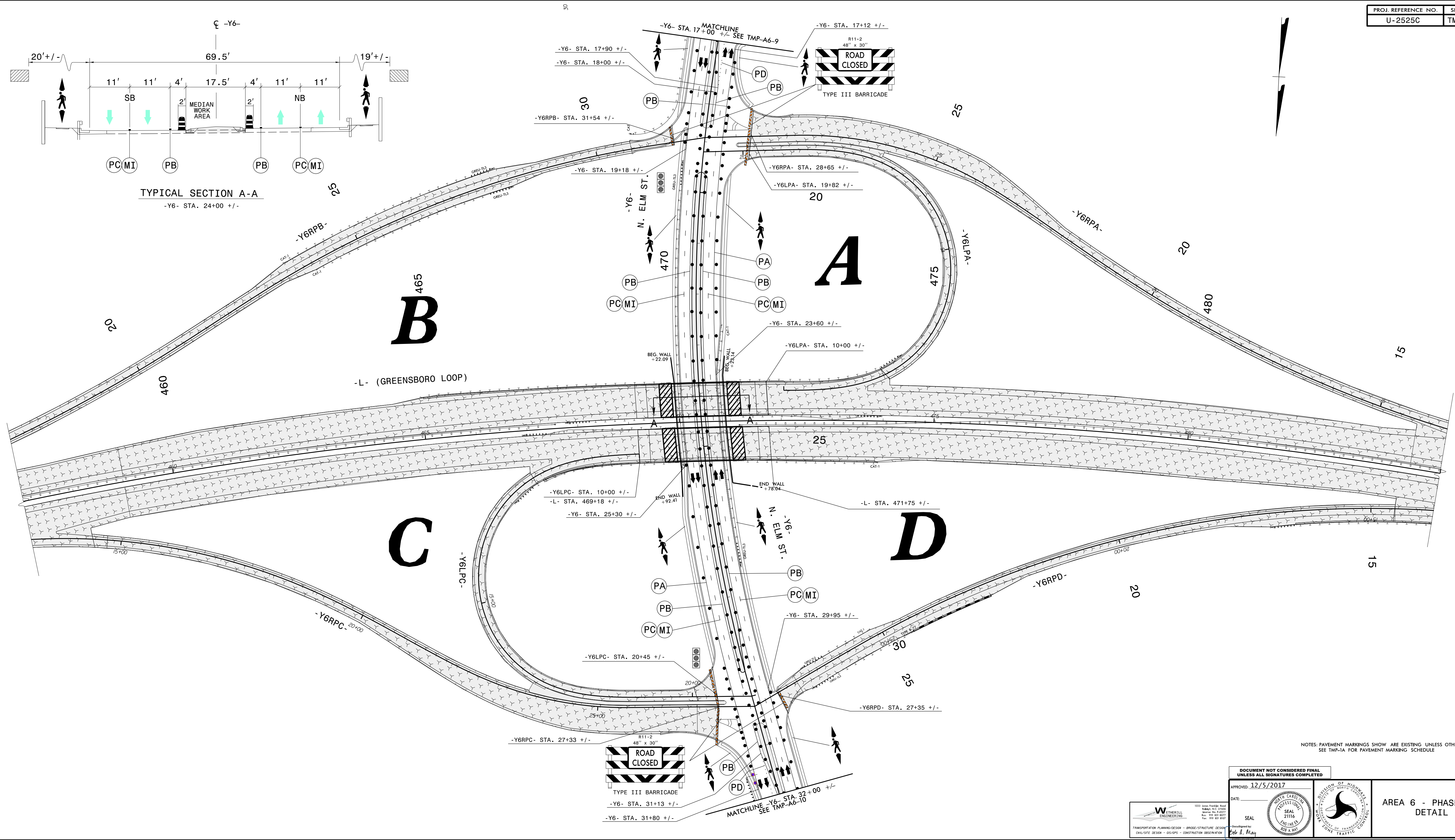
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**AREA 6 - PHASE II
DETAIL**

PROJ. REFERENCE NO.	SHEET NO.
U-2525C	TMP-A6-8



NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE.

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DATE: _____

SEAL: _____

PROFESSIONAL SEAL 21116

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

AREA 6 - PHASE III DETAIL

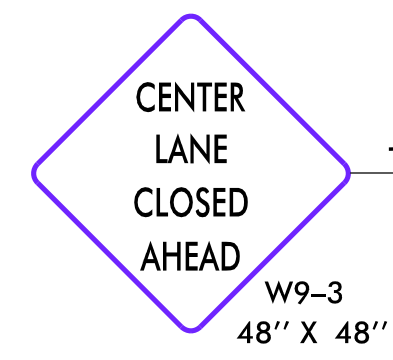
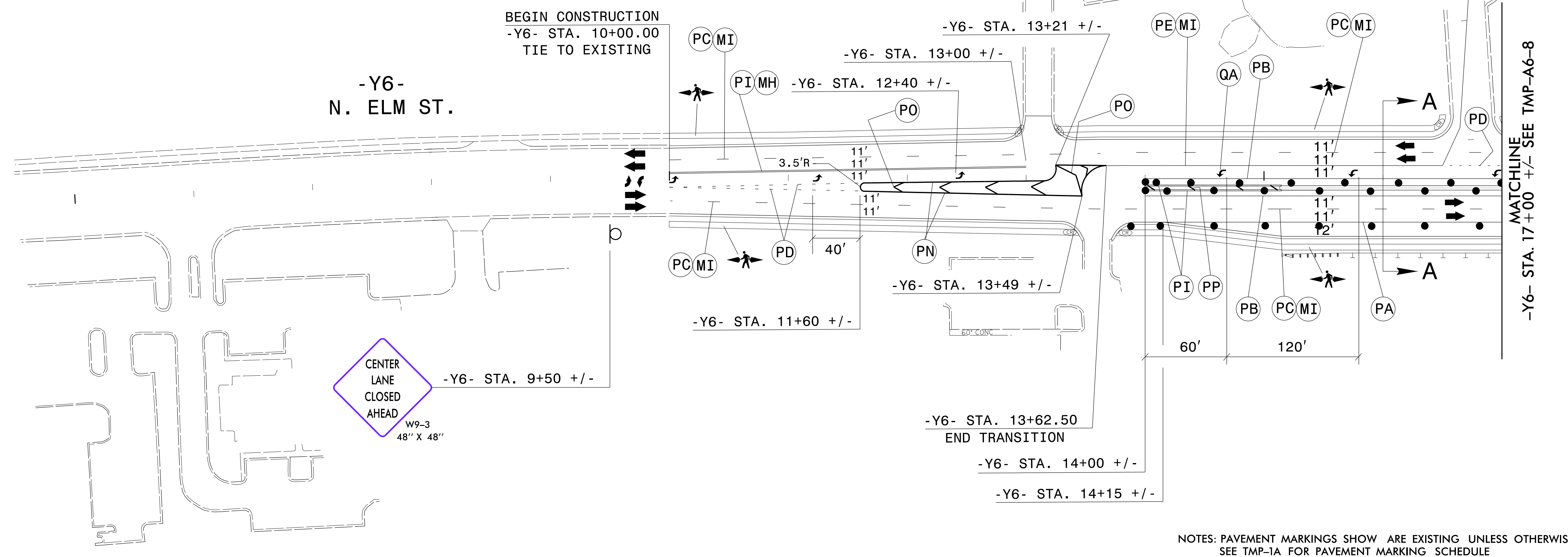
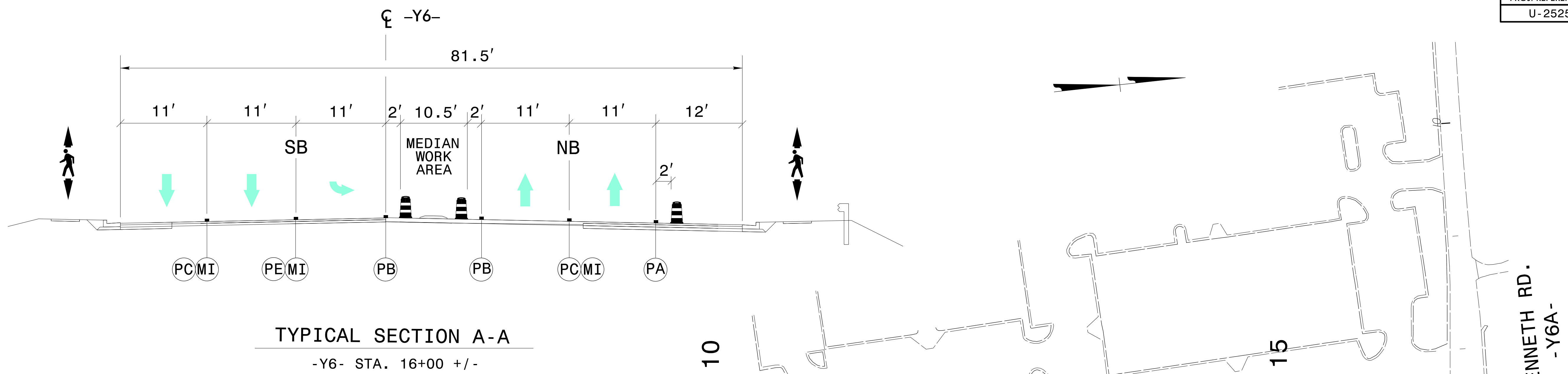
W
 WHEELER
 ENGINEERS

1113 Jones Branch Road
 Suite 400
 Falls Church, VA 22041
 Tel: 703.261.8100
 Fax: 703.261.8101

TRANSPORTATION PLANNING DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - SIGNS - CONSTRUCTION OBSERVATION

Prepared by:
 Paul A. Mag...

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NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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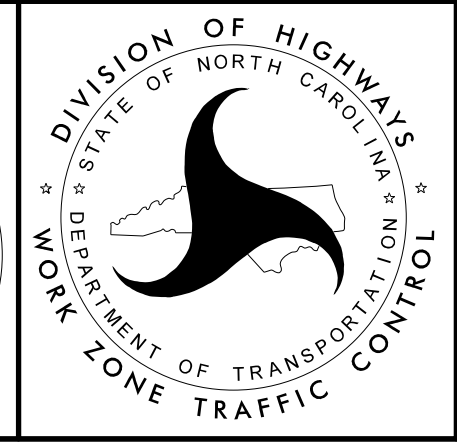
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

APPROVED: *Bob A. May*

DATE: 12/5/2017

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AREA 6 - PHASE III DETAIL

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

AREA 7 PHASING

NOTE: BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL:

- INSTALL ADVANCE WORK ZONE WARNING SIGNS ALONG LAKE JEANETTE RD. (-Y7-), MANSFIELD CIRCLE, BLUFF RUN DR. AND ALL -Y- LINES (SEE ROADWAY STANDARD DRAWING NO. 1101.01, SHEET 3 OF 3).

PHASE I

- STEP 1: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED, CONSTRUCT THE FOLLOWING:
- TEMPORARY SIDEWALK (ASPHALT) & CURB RAMP LEFT OF STA. 20+55 +/- -Y7- AND OPEN TO PEDESTRIAN TRAFFIC (SEE ROADWAY PLANS AND SHEET TMP-A7-2).
- STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED:
- A. CLOSE EXISTING SIDEWALK/GREENWAY LEFT SIDE OF LAKE JEANETTE RD. (-Y7-) AND SHIFT PEDESTRIAN TRAFFIC TO EXISTING SIDEWALK RIGHT SIDE OF LAKE JEANETTE RD. (-Y7-) (SEE SHEET TMP-A7-2).
 - B. CONSTRUCT PROPOSED -Y7DET- FROM STA. 11+48 +/- -Y7DET- TO STA. 17+89 +/- -Y7DET- (INCLUDING TEMPORARY SIDEWALK (ASPHALT), TEMPORARY SHORING & PORTABLE CONCRETE BARRIER), UP TO & INCLUDING THE FINAL LAYER OF SURFACE COURSE, AND UP TO THE EDGE & ELEVATION OF THE EXISTING FROM STA. 10+25 +/- -Y7DET- TO STA. 11+48 +/- -Y7DET- AND STA. 17+89 +/- -Y7DET- TO STA. 19+00 +/- -Y7DET-. PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS, AS MUCH AS POSSIBLE AWAY FROM TRAFFIC (SEE ROADWAY PLANS AND SHEETS TMP-A7-2 & TMP-A7-3).

SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN AREA 7, PHASE I, STEP 3 WITHIN ONE WORK PERIOD.

- STEP 3: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14:
- PLACE REMAINDER OF TEMPORARY PAVEMENT MARKINGS (PAINT)/ MARKERS FOR -Y7DET- AND USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 3 OF 9, CLOSE EXISTING LAKE JEANETTE RD. (-Y7-) AND OPEN -Y7DET- & TEMPORARY SIDEWALK (ASPHALT) TO TRAFFIC (SEE SHEET TMP-A7-3).
- NOTE: CLOSE EXISTING SIDEWALK RIGHT SIDE OF LAKE JEANETTE RD. (-Y7-) AND SHIFT PEDESTRIAN TRAFFIC TO EXISTING/ TEMPORARY SIDEWALK/GREENWAY LEFT SIDE OF LAKE JEANETTE RD. (-Y7-)/-Y7DET- AS SHOWN ON SHEET TMP-A7-3.

PHASE II

- STEP 1: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED (SEE ROADWAY PLANS AND SHEET TMP-A7-3):
- CONSTRUCT PROPOSED LAKE JEANETTE RD. (-Y7-) FROM STA. 22+50 +/- -Y7- TO STA. 28+50 +/- -Y7- (INCLUDING PROPOSED BRIDGE AND PROPOSED SIDEWALKS), UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-) FROM STA. 520+00 +/- -L- TO STA. 523+00 +/- -L-.

SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN AREA 7, PHASE II, STEP 2 WITHIN ONE WORK PERIOD.

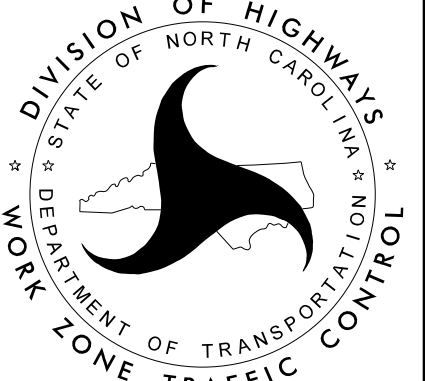
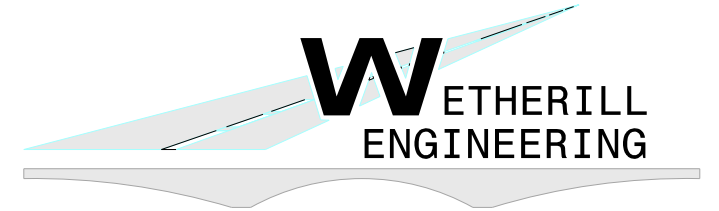

- STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED:
- PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS FOR THE FINAL TRAFFIC PATTERN, OPEN PROPOSED LAKE JEANETTE RD. (-Y7-) (INCLUDING PROPOSED SIDEWALKS RIGHT SIDE) TO TRAFFIC AND CLOSE -Y7DET- TO TRAFFIC. (SEE FINAL PAVEMENT MARKING PLAN AND SHEET TMP-A7-4).

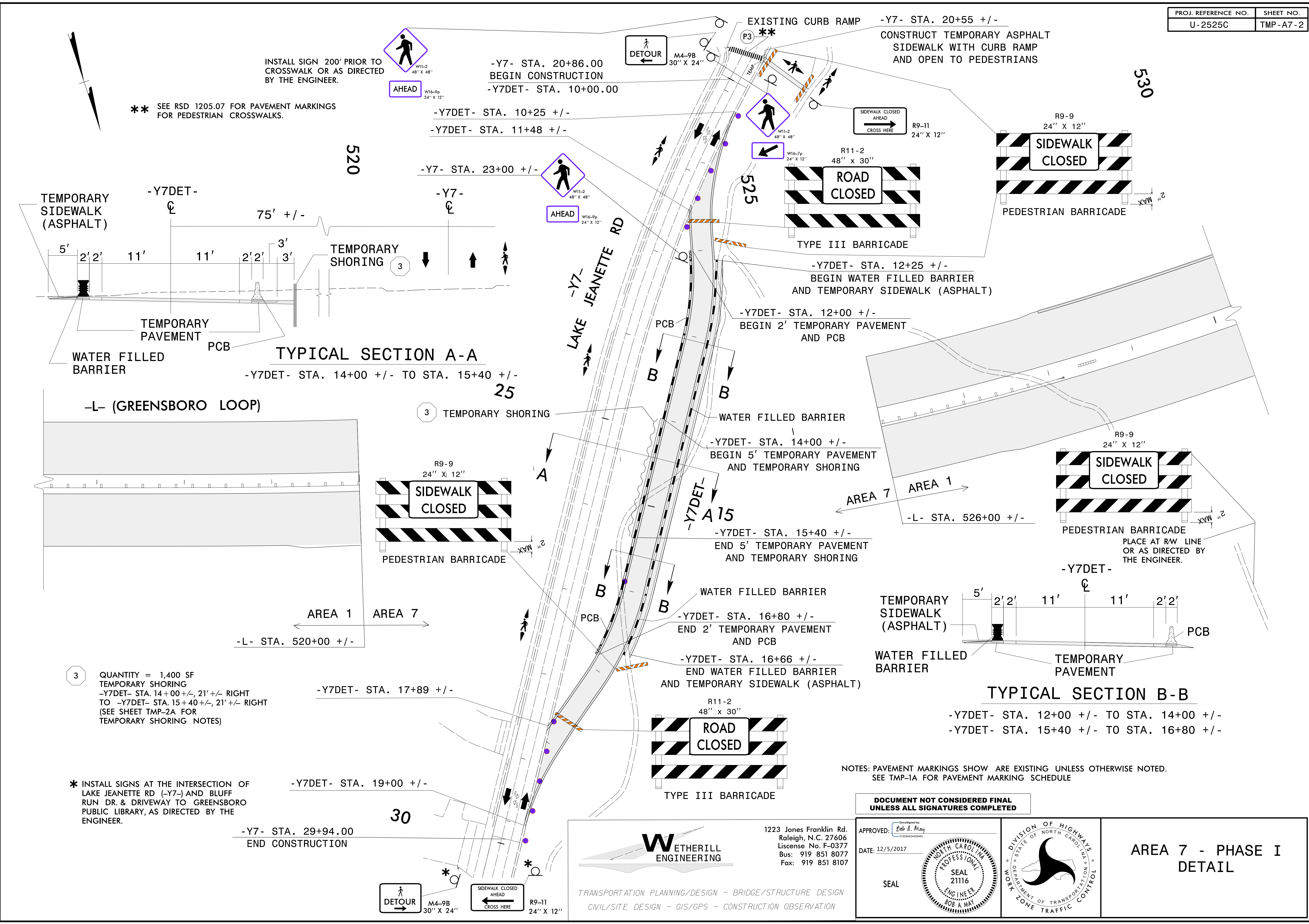
NOTE: CLOSE EXISTING/TEMPORARY SIDEWALK/GREENWAY LEFT SIDE OF LAKE JEANETTE RD. (-Y7-)/-Y7DET- AND SHIFT PEDESTRIAN TRAFFIC TO EXISTING/PROPOSED SIDEWALK RIGHT SIDE OF LAKE JEANETTE RD. (-Y7-) AS SHOWN ON SHEET TMP-A7-4.

PHASE III

- STEP 1. - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, AS REQUIRED (SEE ROADWAY PLANS AND SHEET TMP-A7-4):
- REMOVE -Y7DET- AND CONSTRUCT REMAINDER OF PROPOSED CURB & GUTTER AND SIDEWALKS LEFT SIDE OF LAKE JEANETTE RD. (-Y7-). OPEN PROPOSED SIDEWALK LEFT SIDE TO PEDESTRIAN TRAFFIC.
- CONSTRUCT PROPOSED GREENSBORO LOOP (-L-) FROM STA. 523+00 +/- -L- TO STA. 526+00 +/- -L- AND COMPLETE CONSTRUCTION OF PROPOSED GREENSBORO LOOP (-L-) FROM STA. 520+00 +/- -L- TO STA. 523+00 +/- -L-, BEGUN IN AREA 7, PHASE II, STEP 1.

12/5/2017
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		APPROVED: <i>Bob A. May</i> DATE: 12/5/2017		<h2 style="margin: 0;">AREA 7 PHASING</h2>
 <p style="font-size: x-small; margin: 0;">TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</p>	1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107			



** SEE RSD 1205.07 FOR PAVEMENT MARKINGS FOR PEDESTRIAN CROSSWALKS.

INSTALL SIGN 200' PRIOR TO CROSSWALK OR AS DIRECTED BY THE ENGINEER.

TEMPORARY SIDEWALK (ASPHALT)
75' +/-

TYPICAL SECTION A-A

-Y7DET- STA. 14+00 +/- TO STA. 15+40 +/-

-L- (GREENSBORO LOOP)

TYPICAL SECTION B-B

-Y7DET- STA. 12+00 +/- TO STA. 14+00 +/-
-Y7DET- STA. 15+40 +/- TO STA. 16+80 +/-

3 QUANTITY = 1,400 SF
TEMPORARY SHORING
-Y7DET- STA. 14+00 +/-, 21' +/- RIGHT
TO -Y7DET- STA. 15+40 +/-, 21' +/- RIGHT
(SEE SHEET TMP-2A FOR
TEMPORARY SHORING NOTES)

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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APPROVED: *Bob A. May*

DATE: 12/5/2017

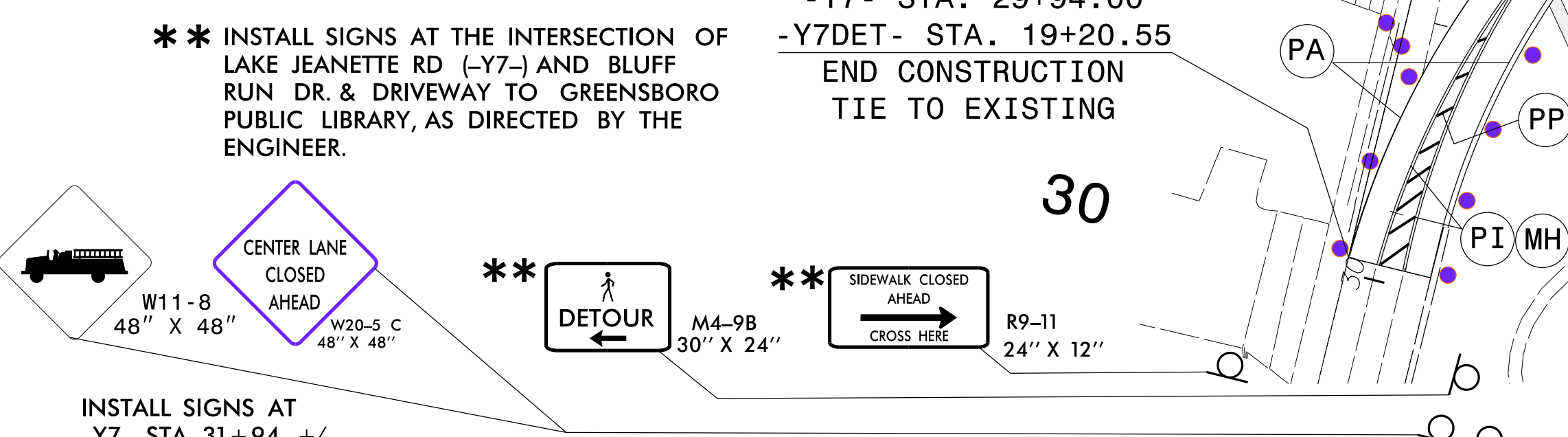
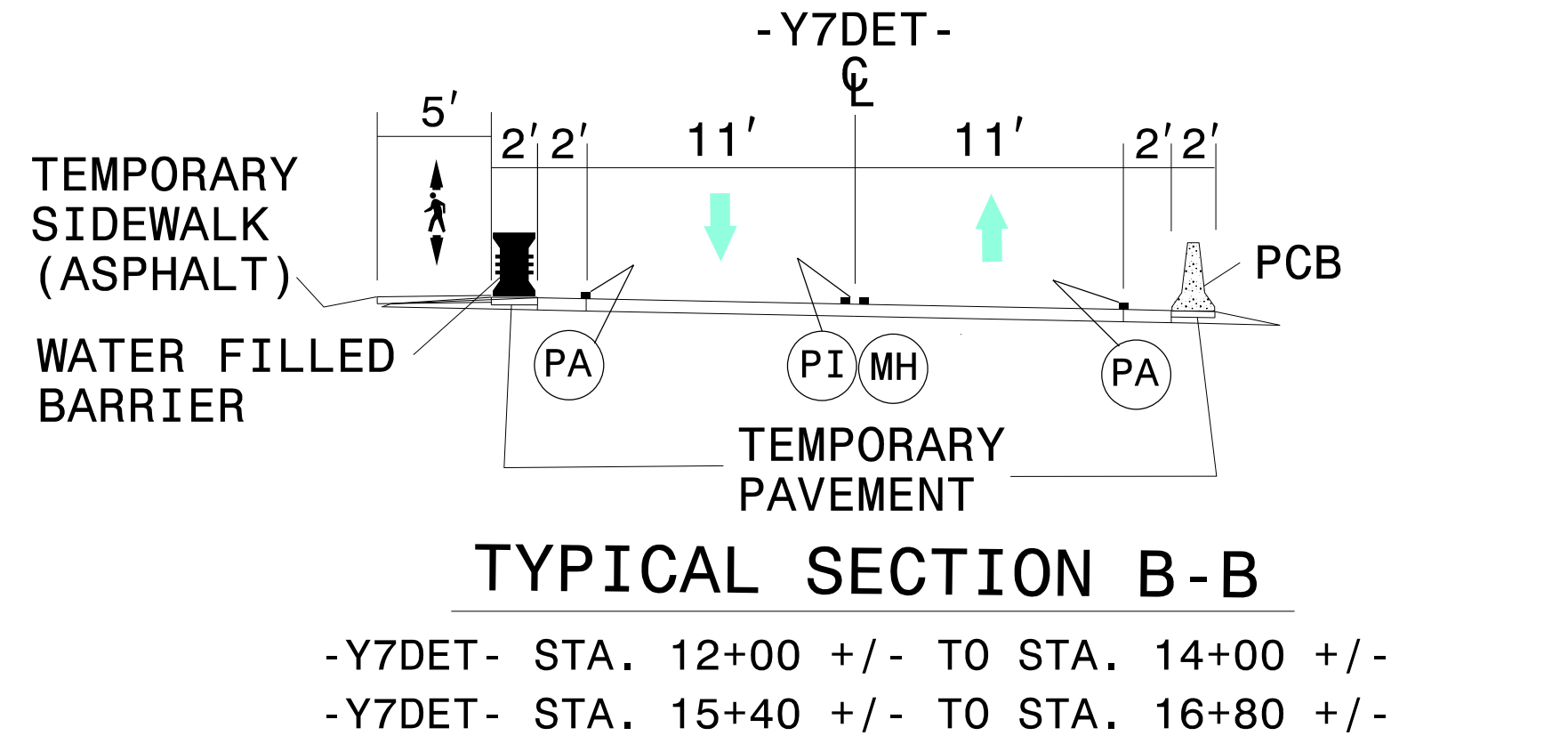
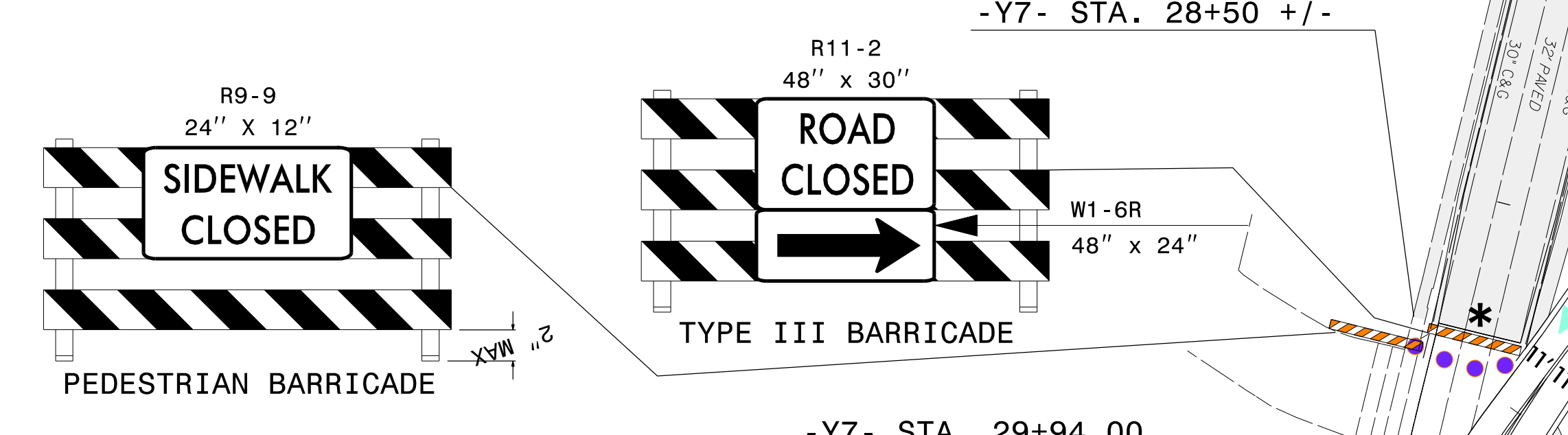
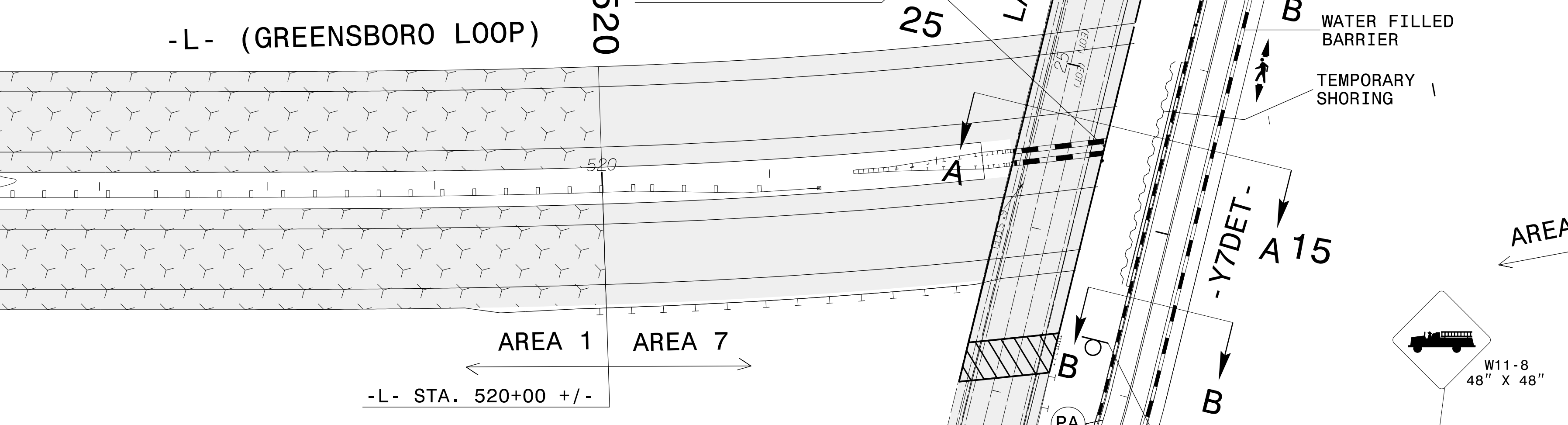
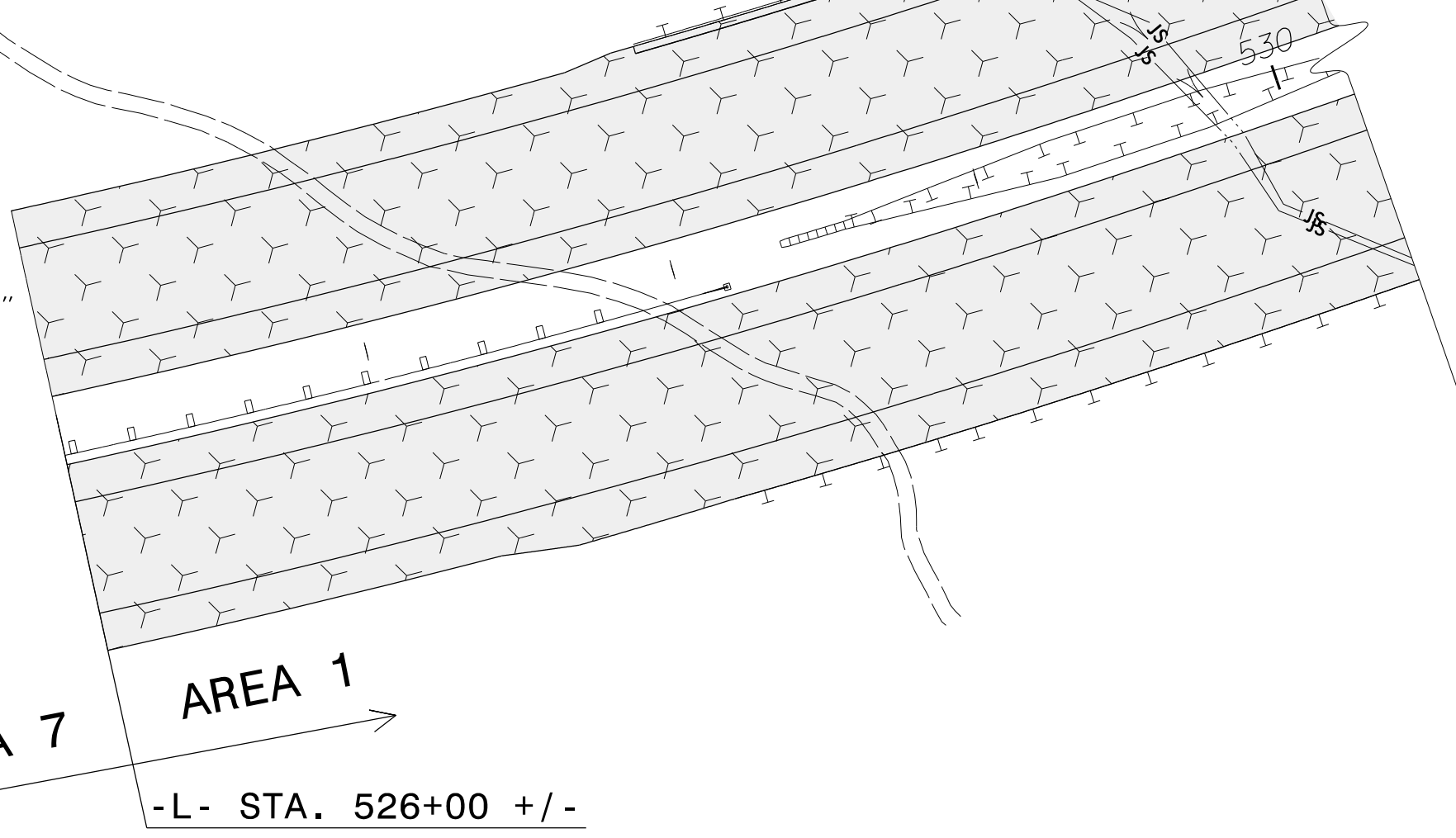
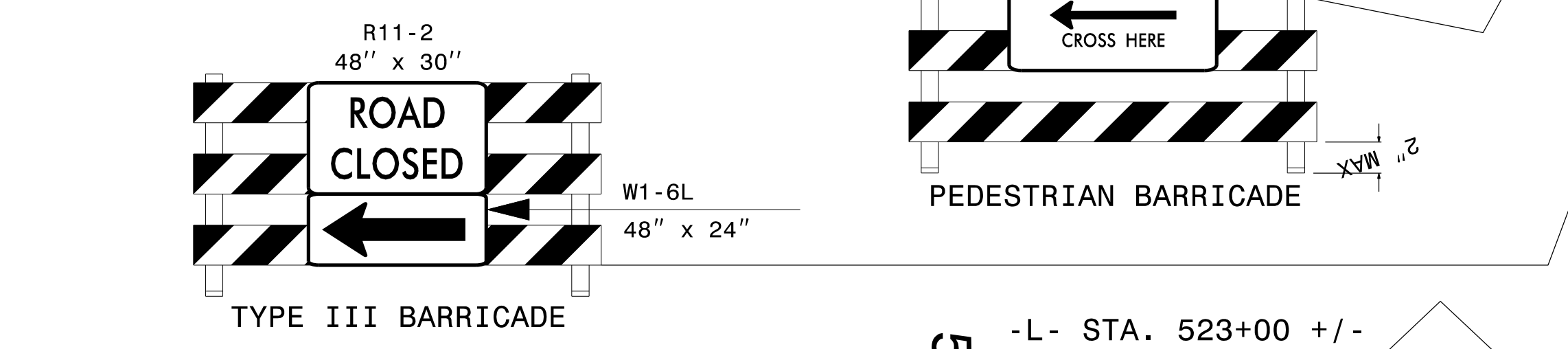
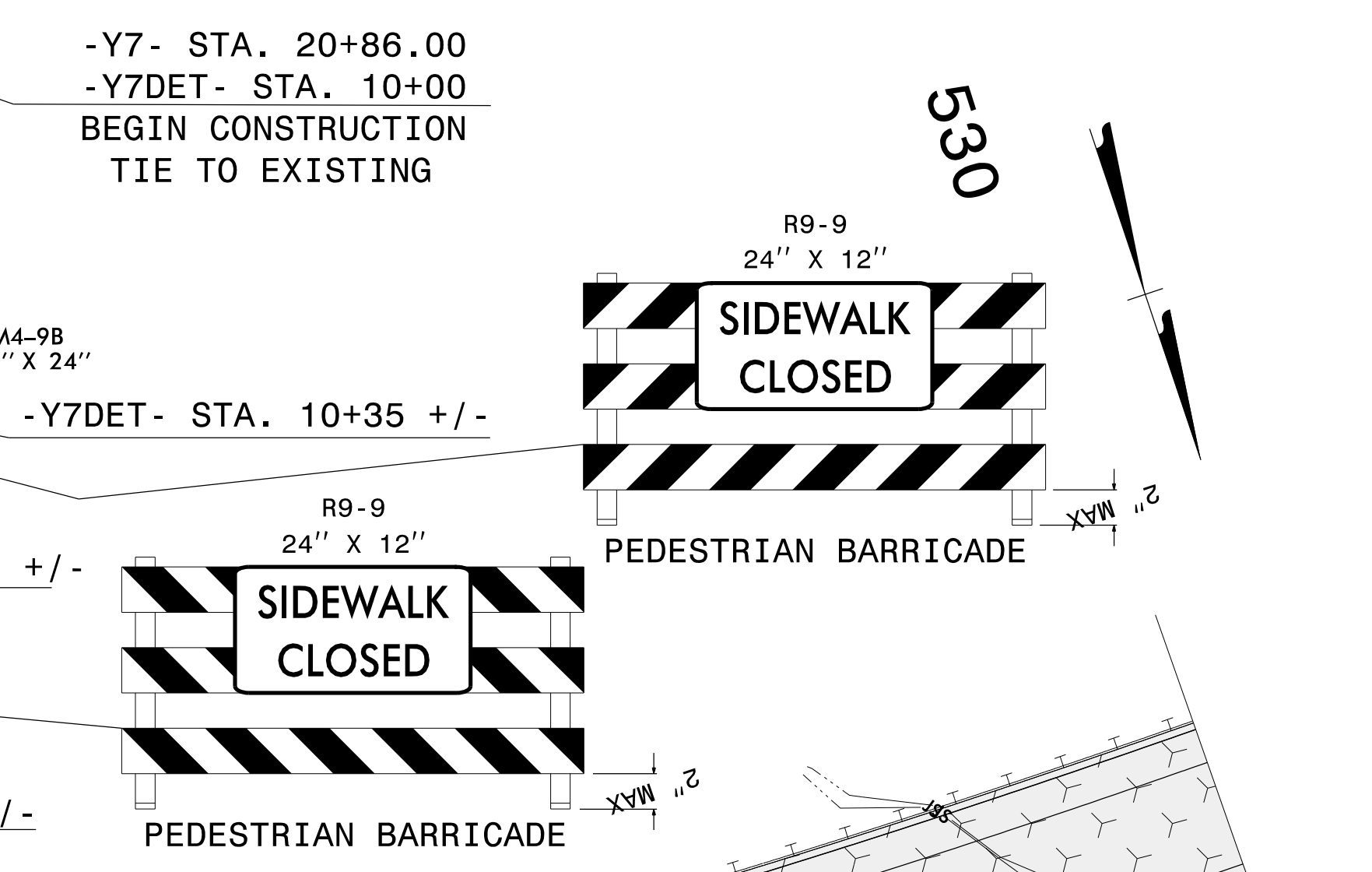
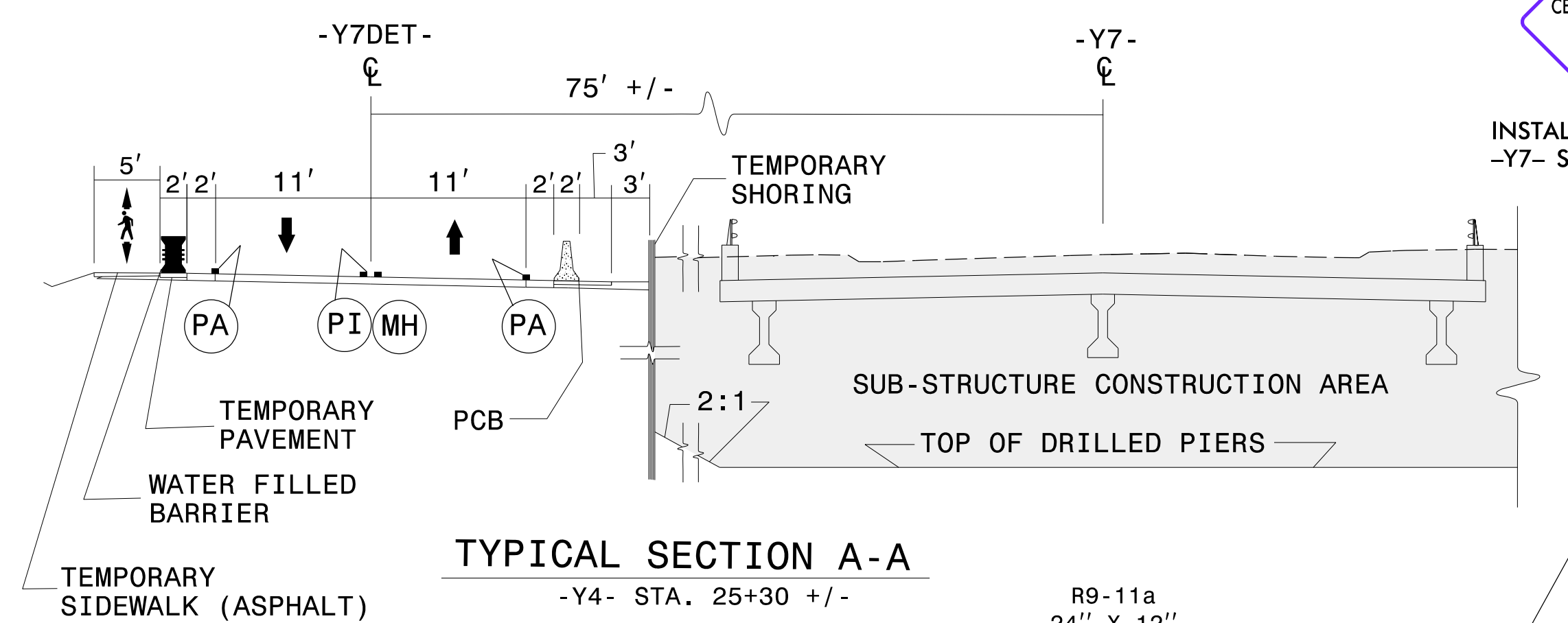
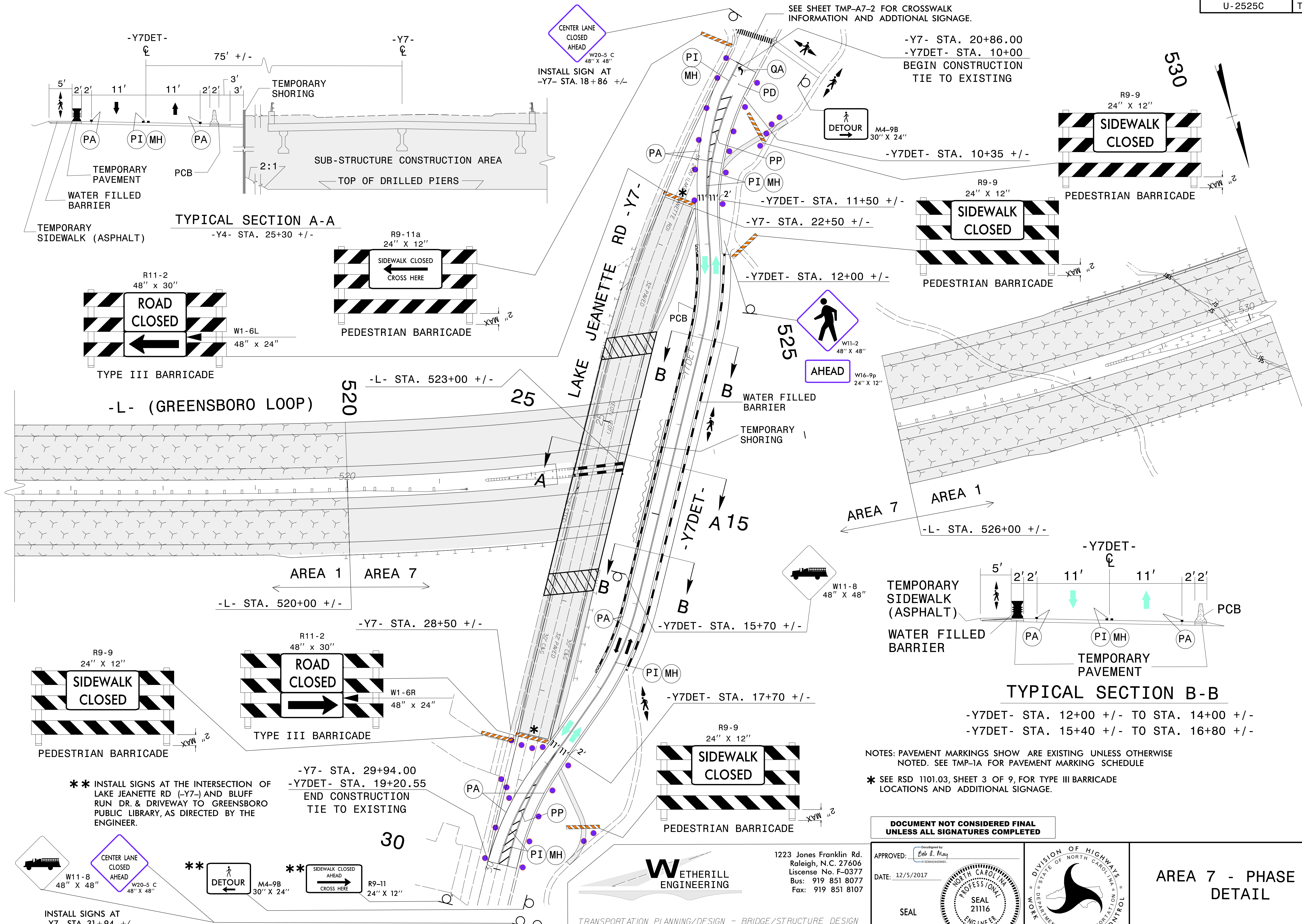
SEAL

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

SEAL
21116
BOB A. MAY

**AREA 7 - PHASE I
DETAIL**

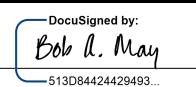

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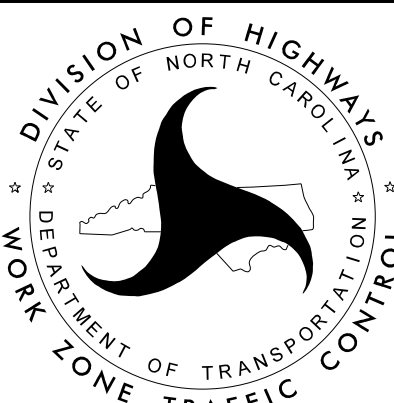


NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

* SEE RSD 1101.03, SHEET 3 OF 9, FOR TYPE III BARRICADE LOCATIONS AND ADDITIONAL SIGNAGE.

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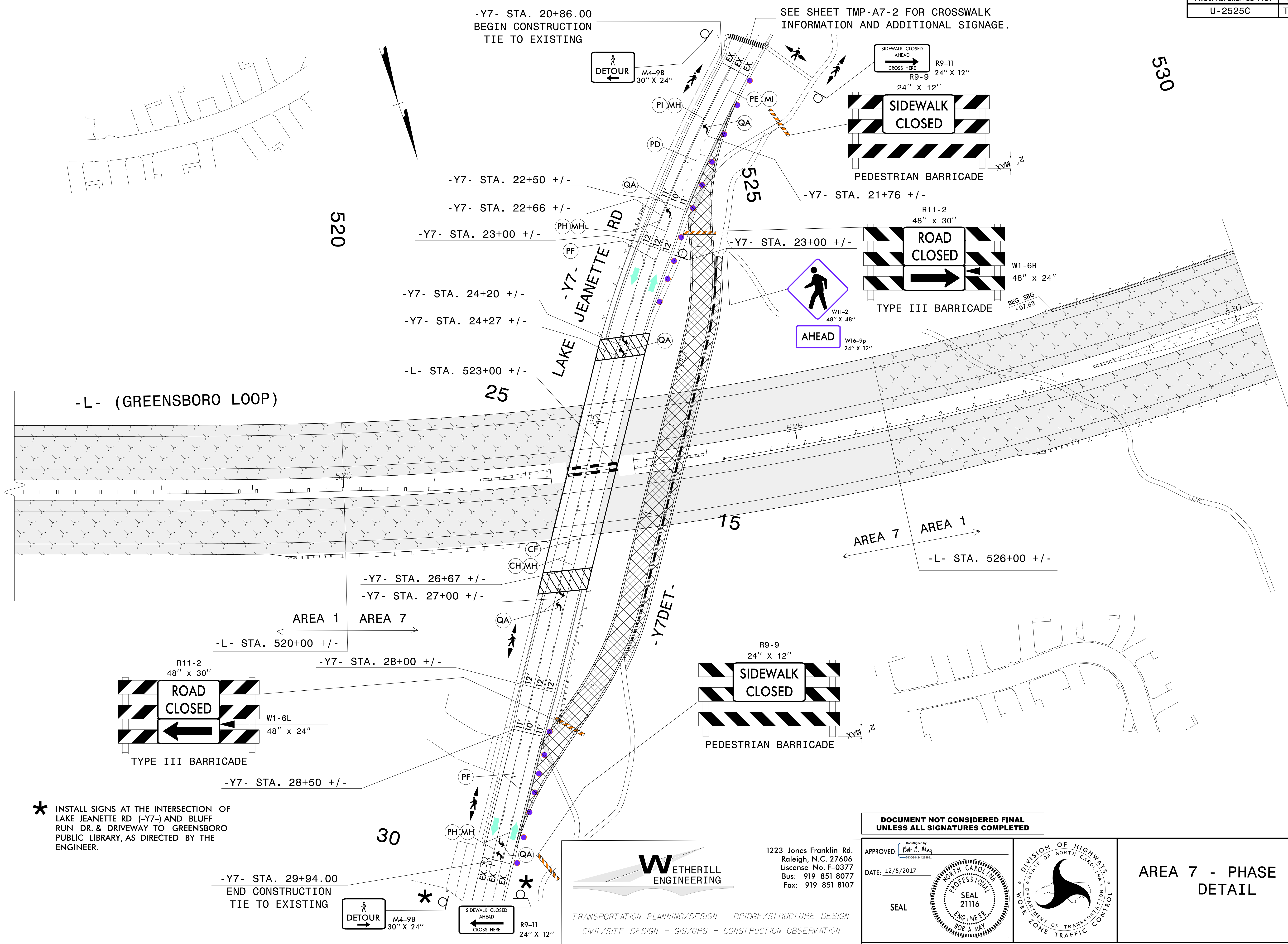


**AREA 7 - PHASE II
DETAIL**

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* INSTALL SIGNS AT THE INTERSECTION OF LAKE JEANETTE RD (-Y7-) AND BLUFF RUN DR. & DRIVEWAY TO GREENSBORO PUBLIC LIBRARY, AS DIRECTED BY THE ENGINEER.

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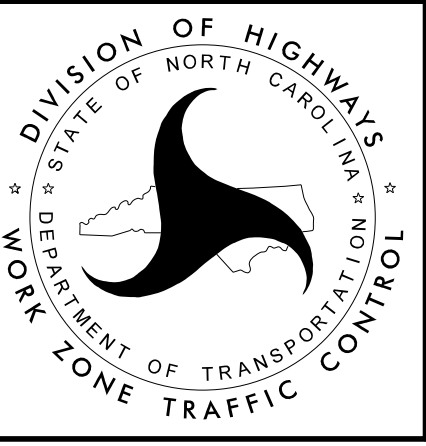
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DATE: 12/5/2017

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**AREA 7 - PHASE III
DETAIL**

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