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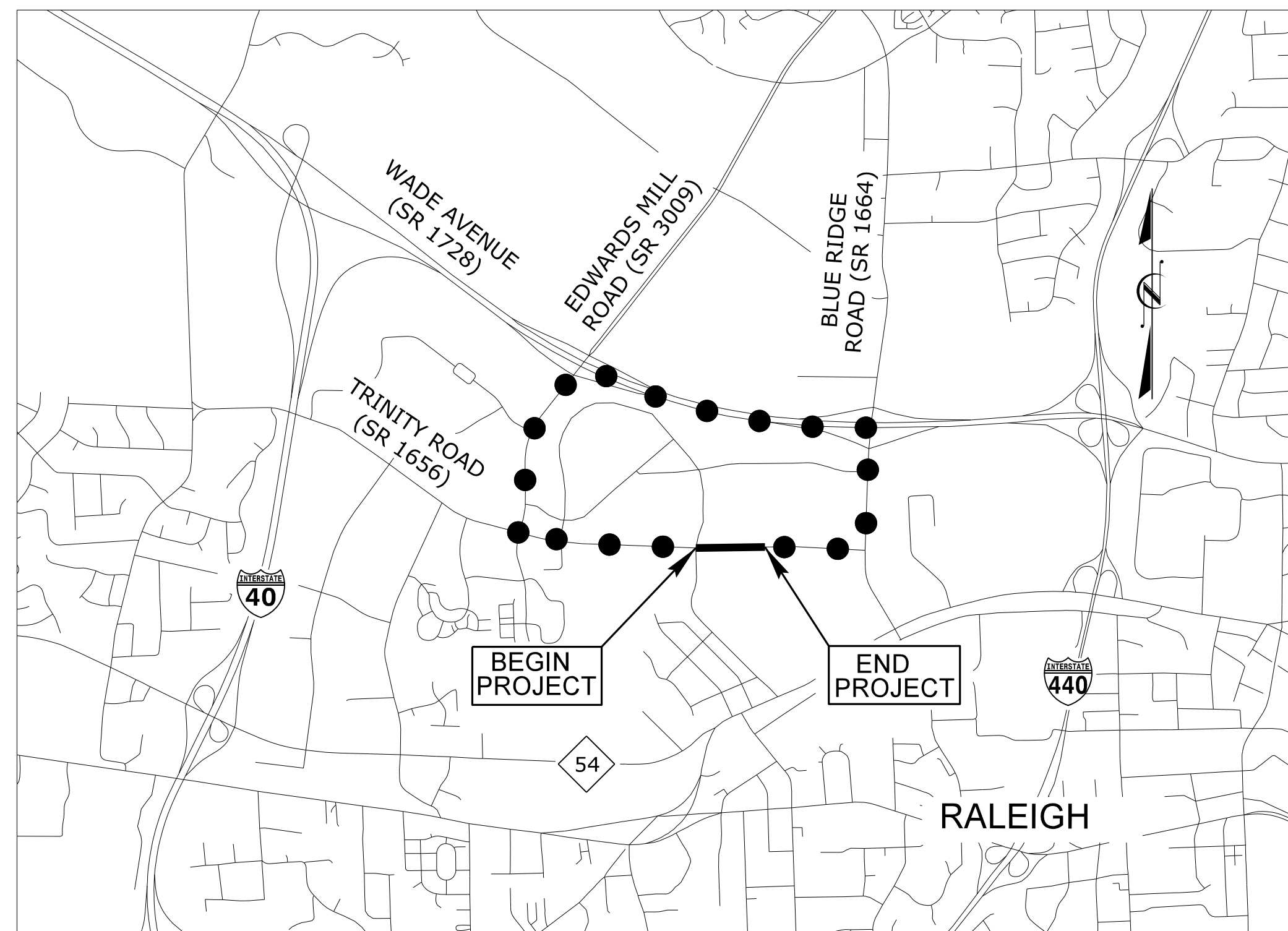
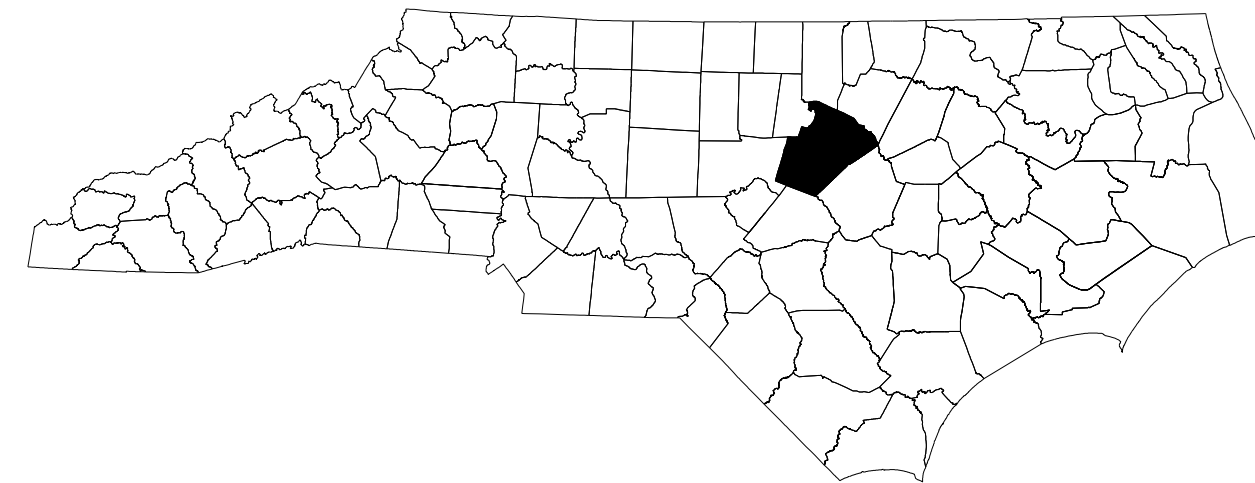
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WAKE COUNTY



VICINITY MAP

NOT TO SCALE

INDEX OF SHEETS	
<u>SHEET NO.</u>	<u>TITLE</u>
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2	SPECIAL SIGN DESIGNS
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	TRAFFIC CONTROL OVERVIEW PHASE I
TMP-5-6	TEMPORARY TRAFFIC CONTROL PHASE I DETAILS
TMP-7	TRAFFIC CONTROL OVERVIEW PHASE II
TMP-8-9	TEMPORARY TRAFFIC CONTROL PHASE II DETAILS
TMP-10	TEMPORARY TRAFFIC CONTROL DETOUR DETAILS

10/24/17 DATE SUBMITTED

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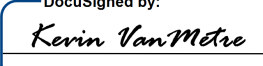
STAGING CONCEPT

MIDPOINT

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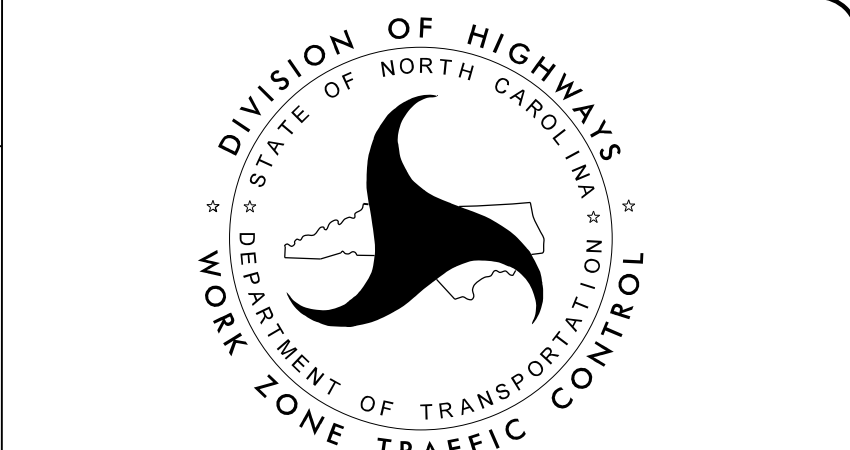



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750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

JOSEPH HUMMER, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
SAMUEL COLEMAN, P.E. STATE PROJECT DESIGN ENGINEER, CENTRAL REGION
DON RICHARDSON STATE DESIGN ENGINEER, CENTRAL REGION
KEVIN VAN METRE, P.E. TRAFFIC CONTROL PROJECT ENGINEER
DAN SCHEEL, EI TRAFFIC CONTROL PROJECT DESIGN ENGINEER



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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
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	POSITIVE PROTECTION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS

LEGEND

GENERAL

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

- WORK AREA
- REMOVAL

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TEMPORARY PAVEMENT MARKINGS

- PA 4" WHITE EDGELINE
- PI 4" DOUBLE YELLOW CENTERLINE

TRAFFIC CONTROL DEVICES

- PORTABLE CONCRETE BARRIER (PCB)
- 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

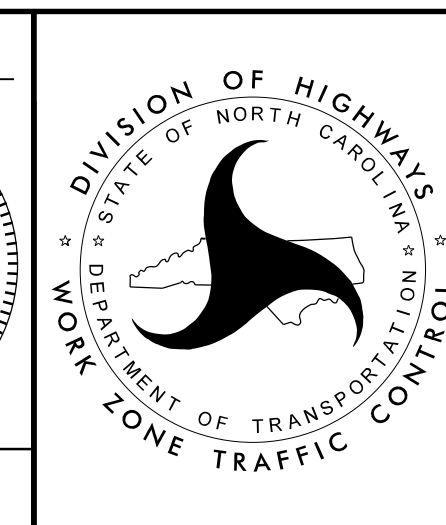
- PAVEMENT MARKING SYMBOLS

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ROADWAY STANDARD DRAWINGS & LEGEND

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GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRABLE 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.

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

ROAD NAME	DAY AND TIME RESTRICTIONS
YOUTH CENTER DRIVE	MONDAY-FRIDAY 6:00AM TO 9:00 AM MONDAY-FRIDAY 4:00PM TO 7:00 PM

B) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
YOUTH CENTER DRIVE	MONDAY-FRIDAY 6AM-9AM, 4PM-7PM	15 MINUTES FOR DRAINAGE INSTALLATION

C) 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.

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

LANE AND SHOULDER CLOSURE REQUIREMENTS

D) 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.

E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

TRAFFIC PATTERN ALTERATIONS

G) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

H) 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.

I) 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.

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

K) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 50 IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

L) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

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

TRAFFIC CONTROL DEVICES

M) 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.

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

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

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
YOUTH CENTER DRIVE	PAINT	RAISED
TRINITY ROAD	PAINT	RAISED

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

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

S) 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.

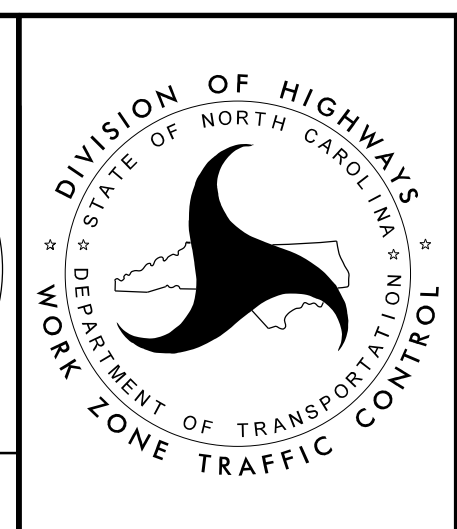
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TRANSPORTATION OPERATIONS PLAN

SIGN NUMBER: SP-1 TYPE: D QUANTITY: 1 SIGN WIDTH: 2'-0" HEIGHT: 1'-6" TOTAL AREA: 3.0 Sq.Ft. BORDER TYPE: RECESSED RECESS: 0.38" WIDTH: 0.5" RADII: 1.5" NO. Z BARS: LENGTH:	BACKG COLOR: Orange COPY COLOR: Black SYMBOL	DESIGN BY: GDS PROJECT ID: W-5522	CHECKED BY: NJD LOCATION:	Feb 23, 2017 DIV:
USE NOTES: 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting. 2. Background shall be Grade C reflective sheeting.				
LETTER POSITIONS				

		Letter spacings are to start of next letter												Series/Size			
														Text Length			
T	R	I	N	I	T	Y											D 2000
3	2.9	3.2	1.3	3.4	1.1	2.7	3.4	3									18
R	O	A	D														D 2000
6	2.8	2.9	3.5	2.7	6												12

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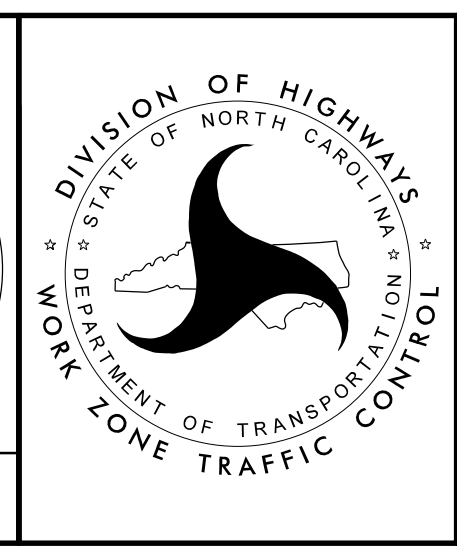
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DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

SPECIAL SIGN DESIGNS

PHASING

NOTE: "RSD" REFERS TO ROADWAY STANDARD DRAWINGS.

PHASE I

- STEP 1- USING RSD 1101.01 (SHEET 3 OF 3), INSTALL ADVANCE WARNING SIGNS ON TRINITY ROAD AND YOUTH CENTER DRIVE.
- STEP 2- USING RSD 1101.02 (SHEET 1 OF 14) INSTALL PORTABLE CONCRETE BARRIER (PCB) ALONG THE WESTERN SIDE OF YOUTH CENTER DRIVE. INSTALL TEMPORARY PAVEMENT MARKINGS AS SHOWN ON SHEET TMP-5 AND TMP-6. REMOVE ANY CONFLICTING MARKINGS.
- STEP 3- INSTALL DRAINAGE ALONG THE WESTERN SIDE OF -Y2-.
- STEP 4- USING RSD 1101.02 (SHEET 1 OF 14) INSTALL DRAINAGE ACROSS YOUTH CENTER DRIVE. STEEL PLATE ANY WORK NOT COMPLETED IN A SINGLE DAY.

PHASE II

- STEP 1- USING RSD 1101.02 (SHEET 1 OF 14) RESET PCB ALONG EASTERN SIDE OF YOUTH CENTER DRIVE. REMOVE ANY CONFLICTING MARKINGS. INSTALL TEMPORARY PAVEMENT MARKINGS AS SHOWN ON SHEET TMP-8 AND TMP-9.

INTERMEDIATE CONTRACT TIME

CONTRACTOR SHALL COMPLETE THE CONSTRUCTION DESCRIBED IN PHASE II, STEPS 2 THRU 4, BETWEEN 7:00 PM ON MARCH 1, 2018 AND 6:00 AM ON AUGUST 1, 2018. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES IN THE CONTRACT DOCUMENTS.)

- STEP 2- INSTALL DETOUR SIGNING AS SHOWN ON SHEET TMP-10. USING RSD 1101.03 (SHEET 1 OF 9) PLACE BARRICADES AND CLOSE TRINITY ROAD.
- STEP 3- INSTALL PEDESTRIAN TUNNEL AND PAVE UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE OF -L-. USING RSD 1101.02 (SHEET 1 OF 14) REMOVE PCB ALONG -Y2- WHEN DRAINAGE INSTALLATION IS COMPLETE. REMOVE ANY CONFLICTING MARKING FROM 11+28 TO 16+70.
- STEP 4- UPON COMPLETION OF TRINITY TUNNEL AND PAVING OPERATIONS, OPEN TRINITY RD. TO VEHICULAR TRAFFIC.

PHASE III

- STEP 1- USING RSD 1101.02 (SHEET 1 OF 14) MILL EXISTING SURFACE COURSE FROM -L- 10+00 TO 13+70 AND FROM -L- 16+15 TO 16+92 AS SHOWN IN ROADWAY PLANS.
- STEP 2- USING RSD 1101.02 (SHEET 1 OF 14) INSTALL FINAL SURFACE COURSE AND FINAL PAVEMENT MARKINGS FROM -L- 10+00 TO 13+70 AND FROM -L- 16+15 TO 16+92. SEE PAVEMENT MARKING PLANS.
- STEP 3- REMOVE ANY REMAINING TEMPORARY TRAFFIC CONTROL ITEMS.

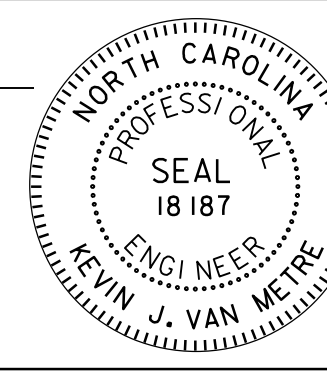
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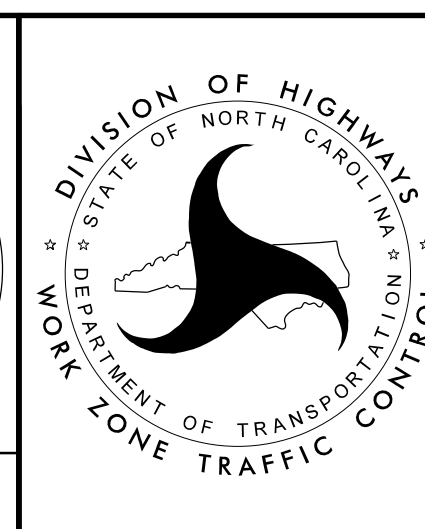
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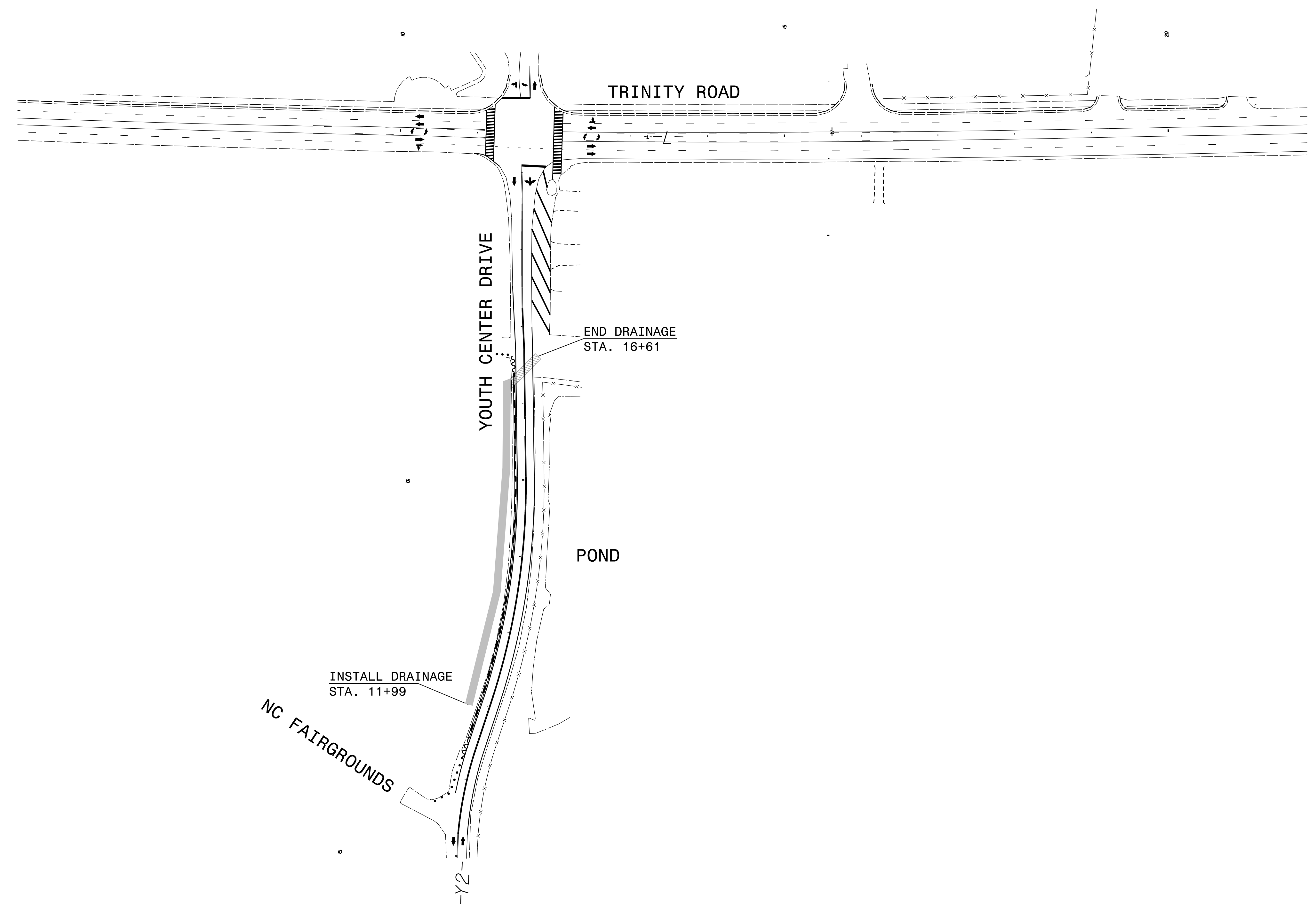


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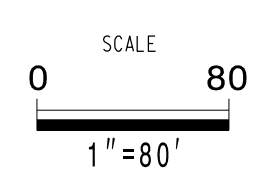
PHASING

PROJ. REFERENCE NO.	SHEET NO.
W-5522	TMP-4

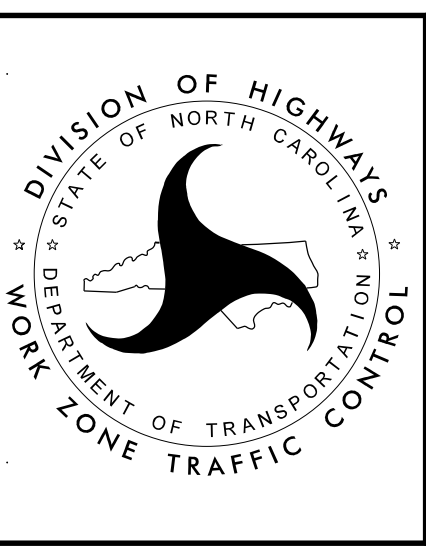


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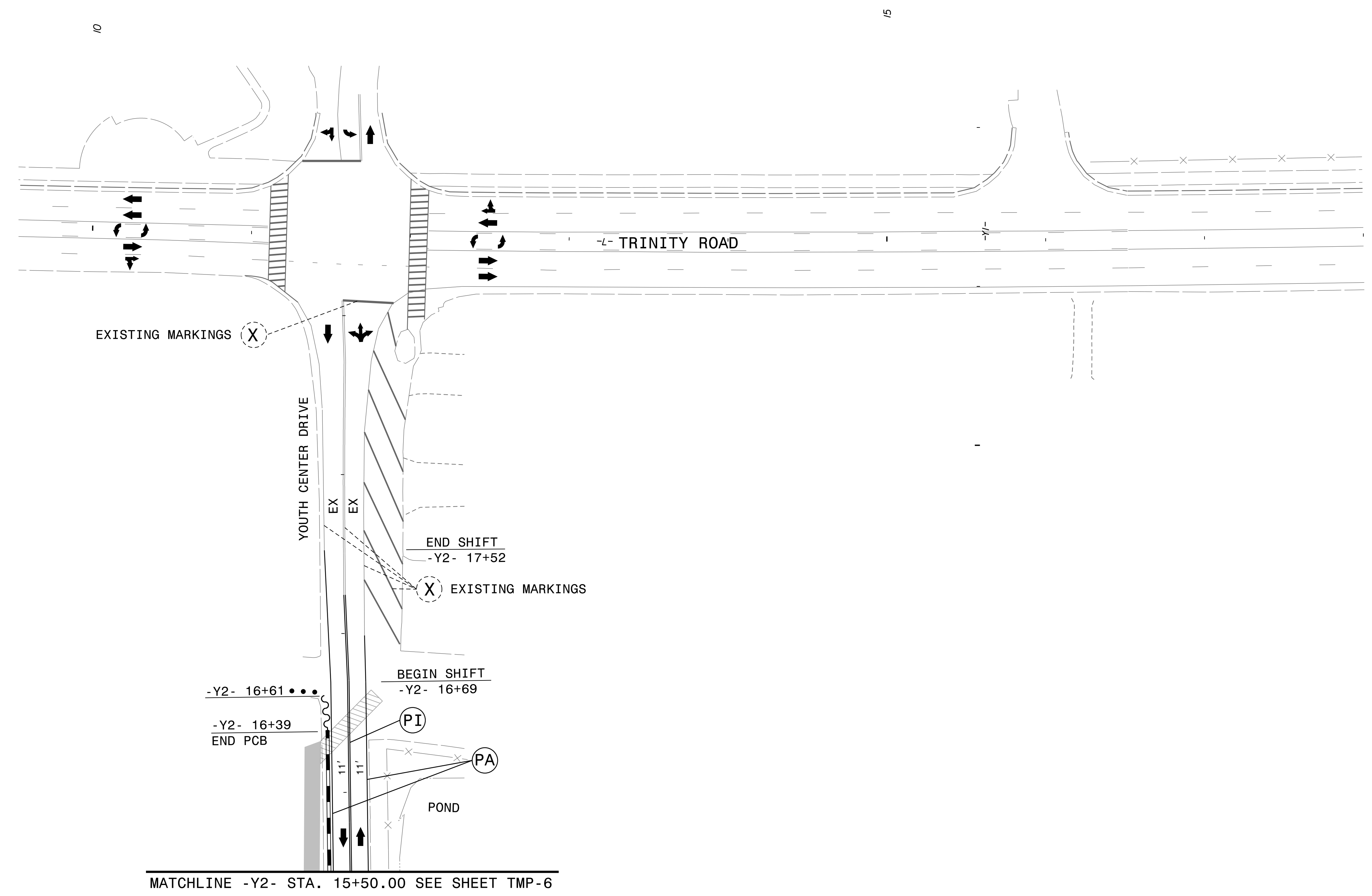
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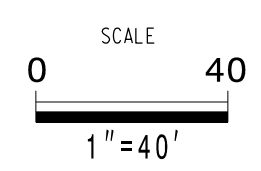
**PHASE I
 OVERVIEW**

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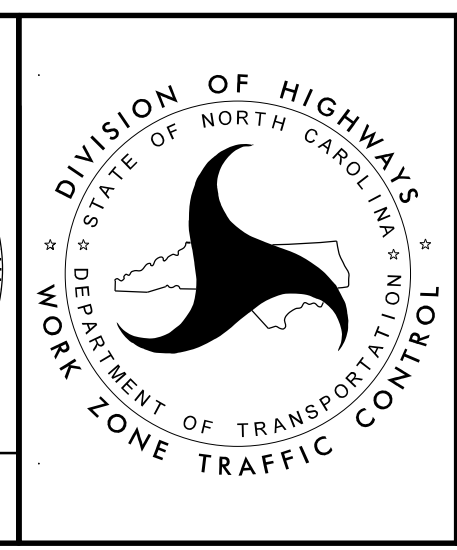


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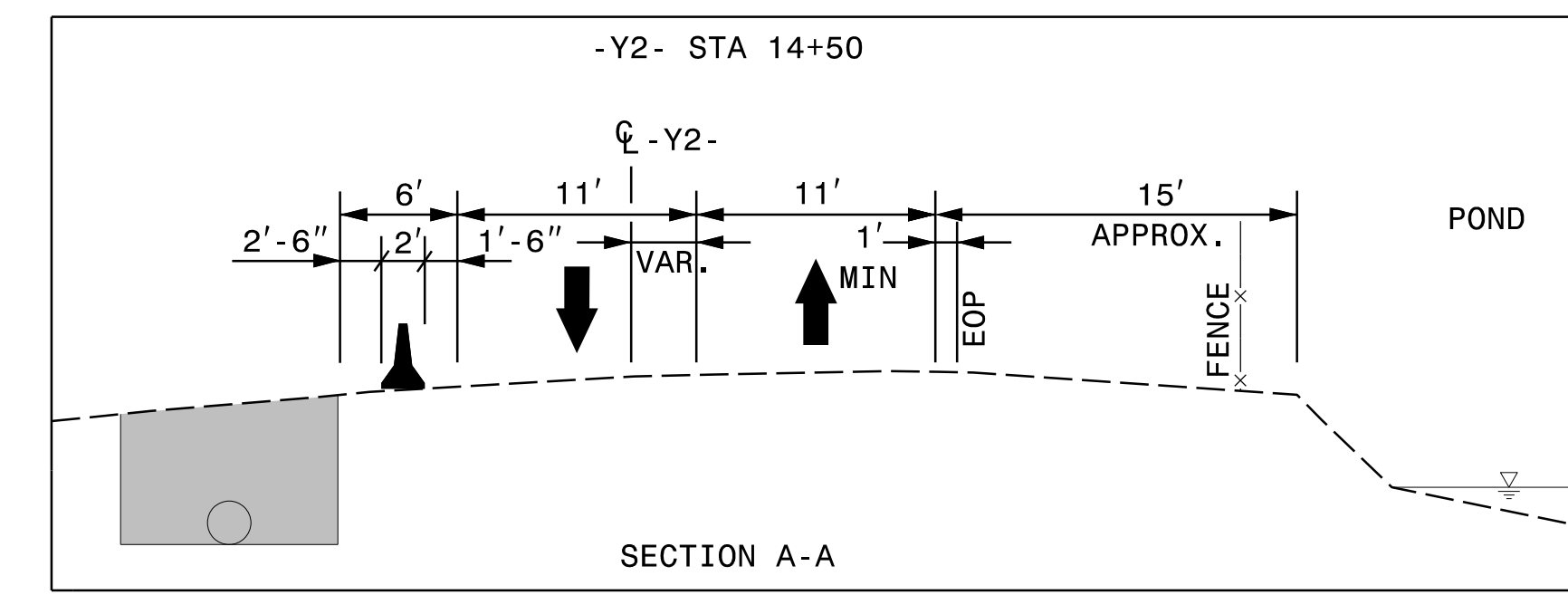
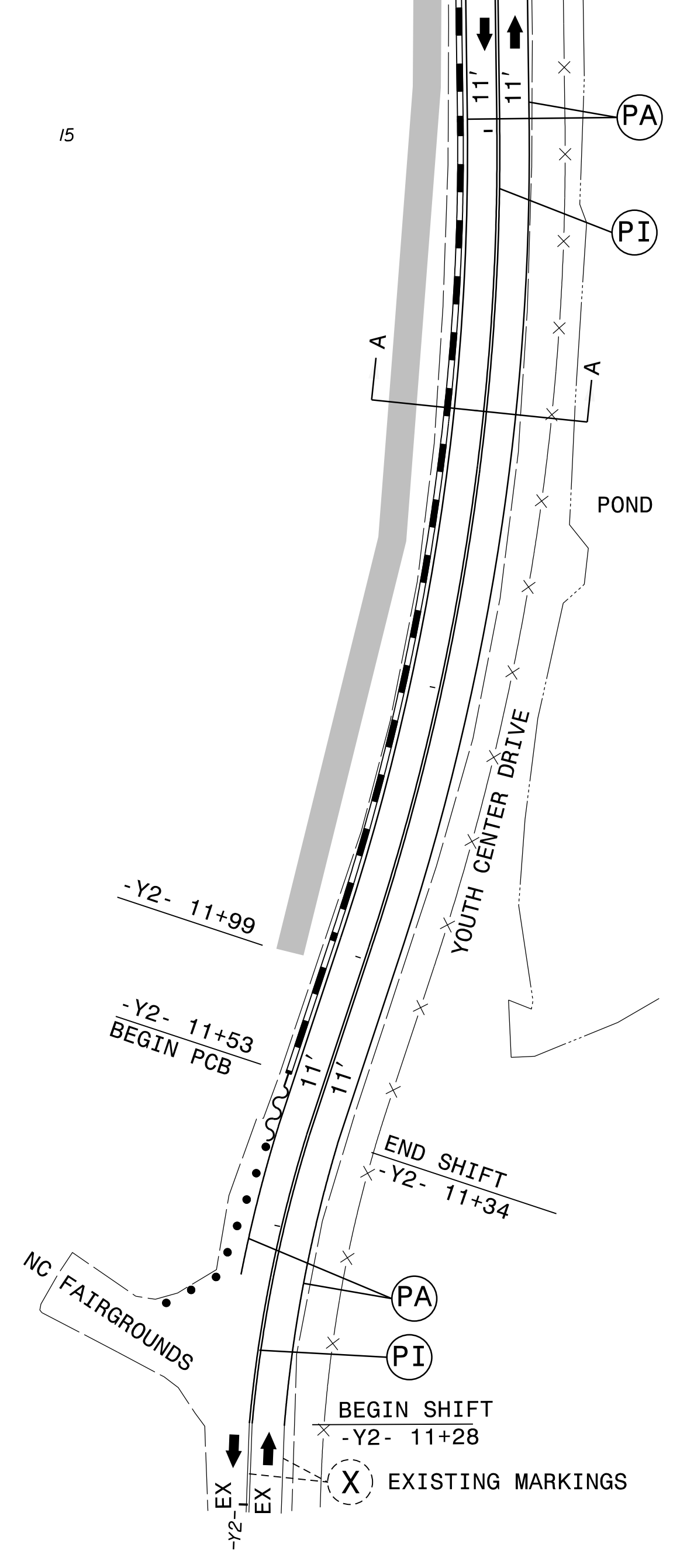


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PHASE I
 DETAIL 1

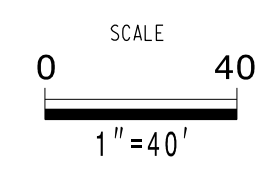


MATCHLINE -Y2- STA. 15+50.00 SEE SHEET TMP-5

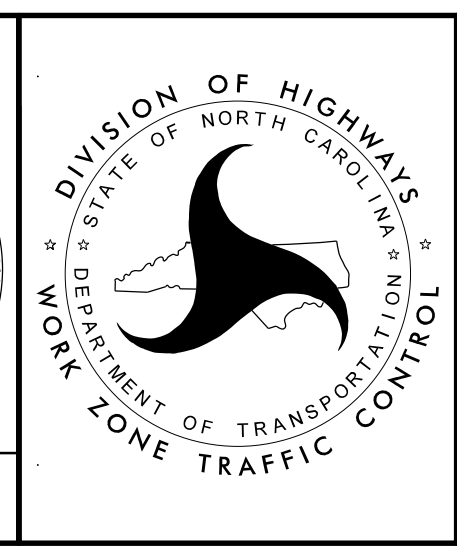


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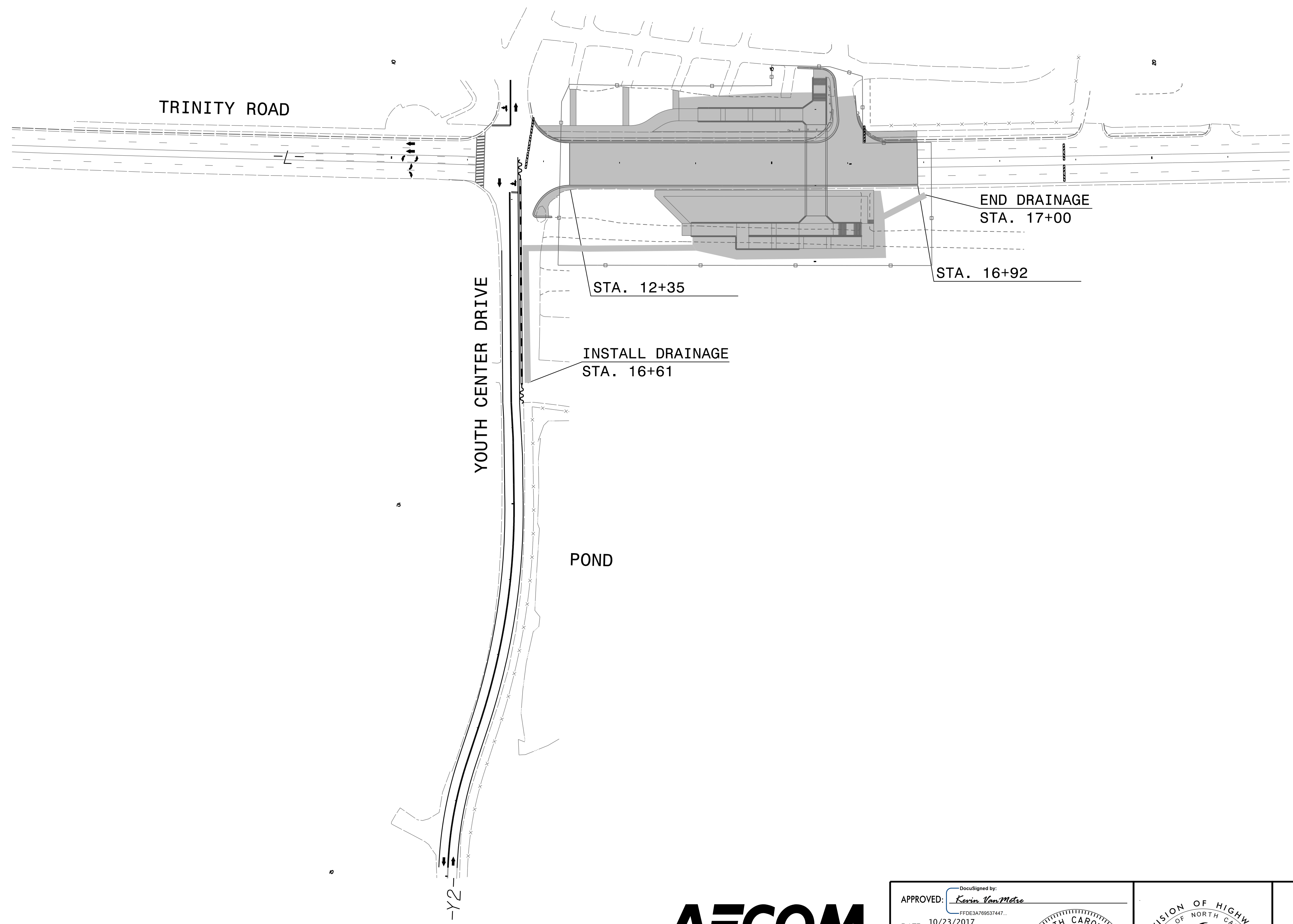
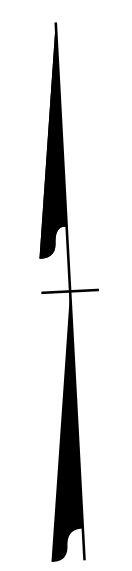
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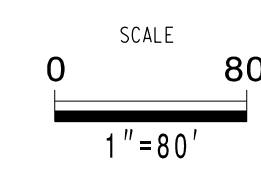
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 PHASE I
 DETAIL 2

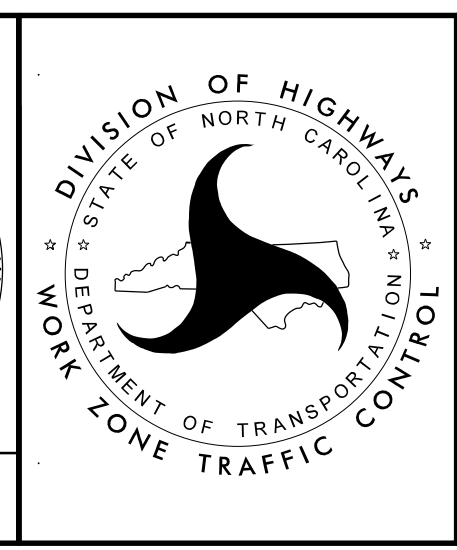


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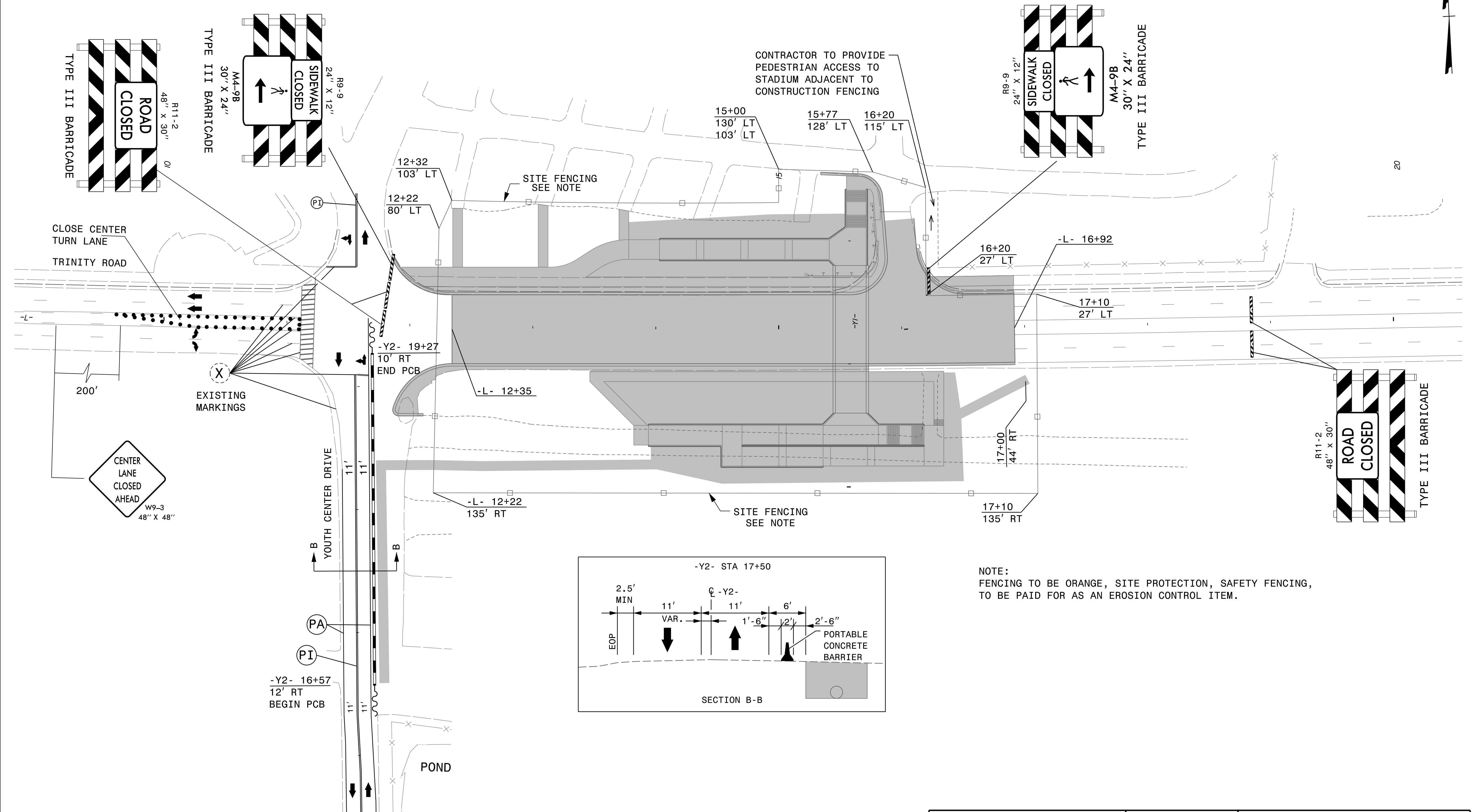


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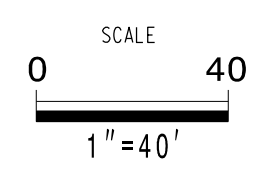


PHASE II
 OVERVIEW



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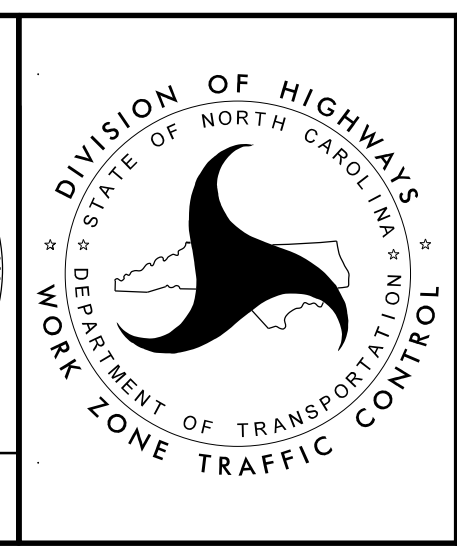


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 18187
 KEVIN J. VAN METER
 ENGINEER

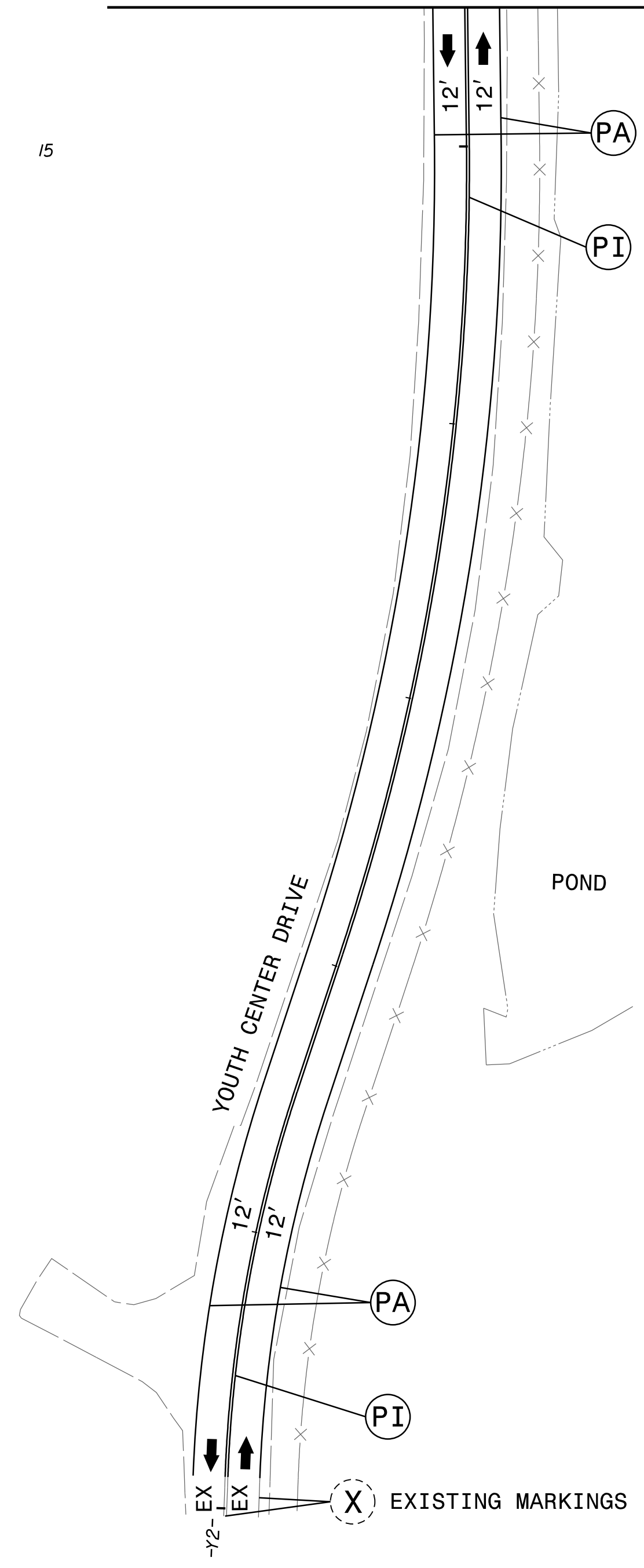
DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



PHASE II
DETAIL 1

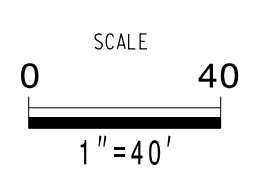


MATCHLINE -Y2- STA. 15+50.00 SEE SHEET TMP-8



10/23/2017
R:\Traffic\TrafficControl\TCP\W5522-TC-TMP_psh_9.dgn
vanmetrek

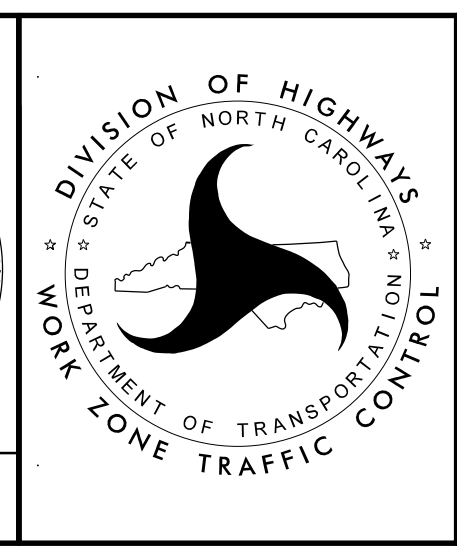
AECOM
 NC Firm License No.: F-0342
 701 Corporate Center Drive
 Suite 475 Raleigh, NC 27607
 Phone: 919-854-6200



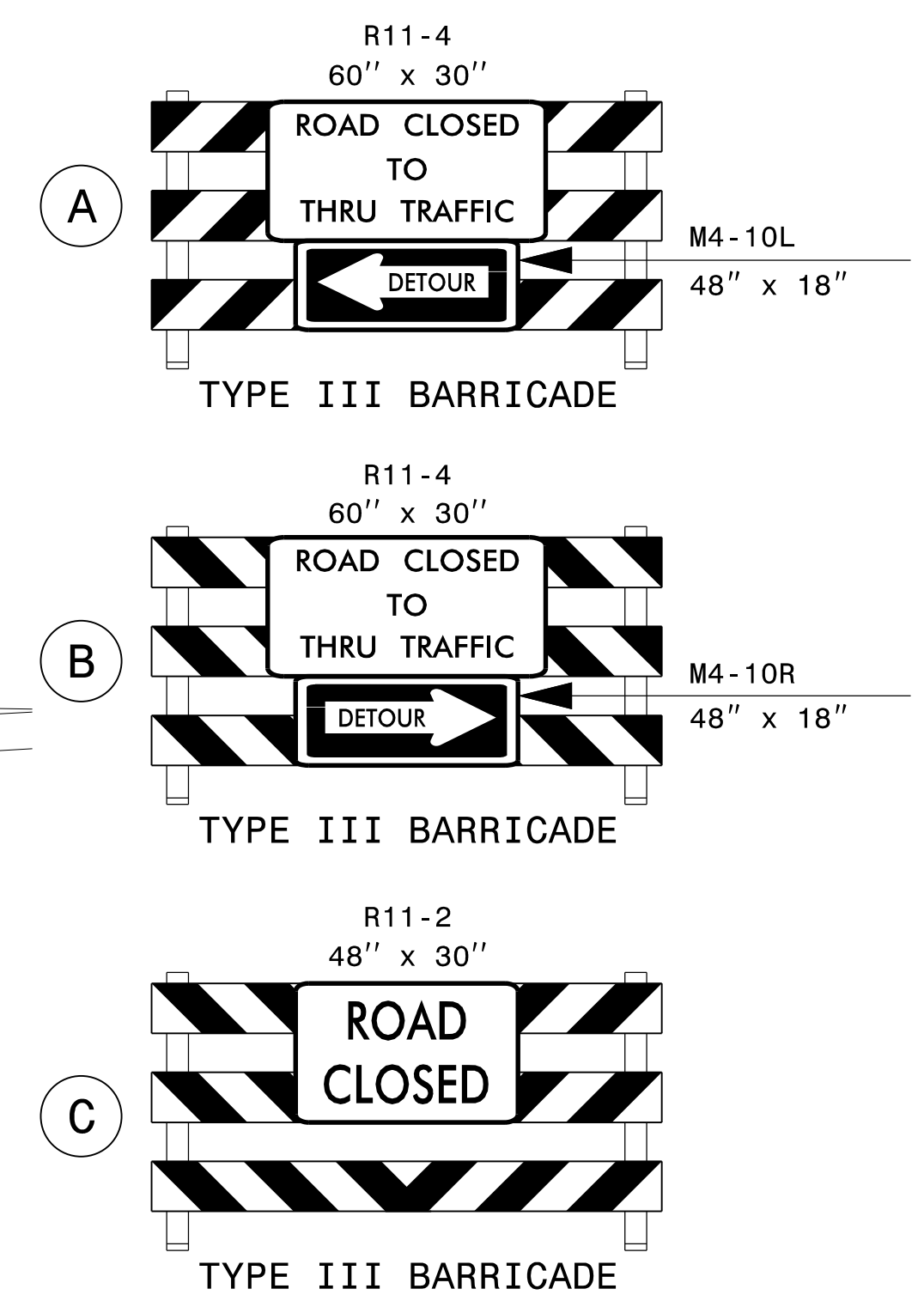
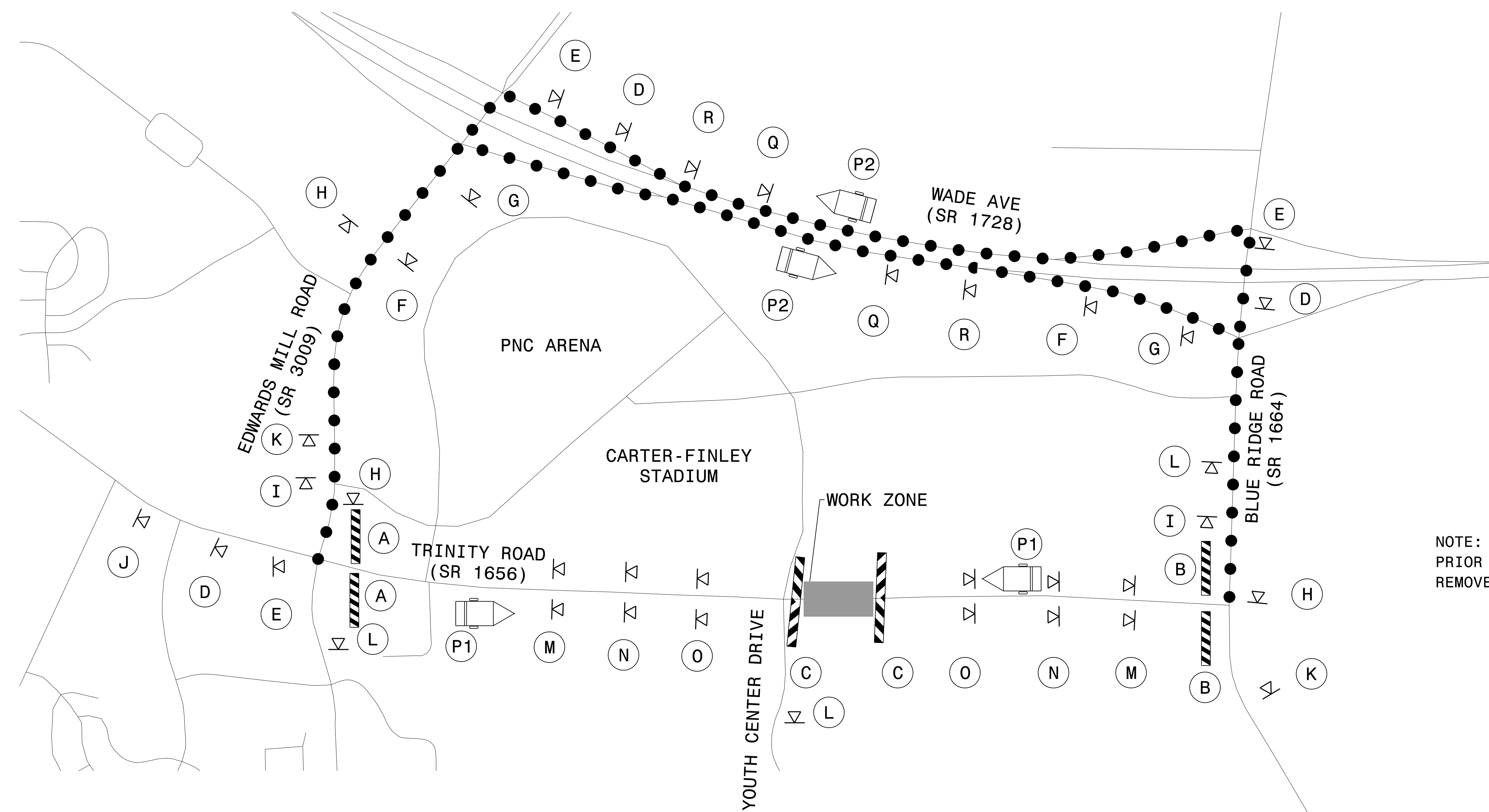
APPROVED: *Kevin Van Metre*
 DATE: 10/23/2017

SEAL

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PHASE II
DETAIL 2



NOTE: (P1) CMS SHALL BE IN PLACE 2 WEEKS PRIOR TO TRINITY ROAD CLOSURE AND CAN BE REMOVED ONCE CLOSURE HAS OCCURED.

MESSAGE NO. 1	MESSAGE NO. 2
TRINITY ROAD	BEGINING
CLOSED	MARCH 1

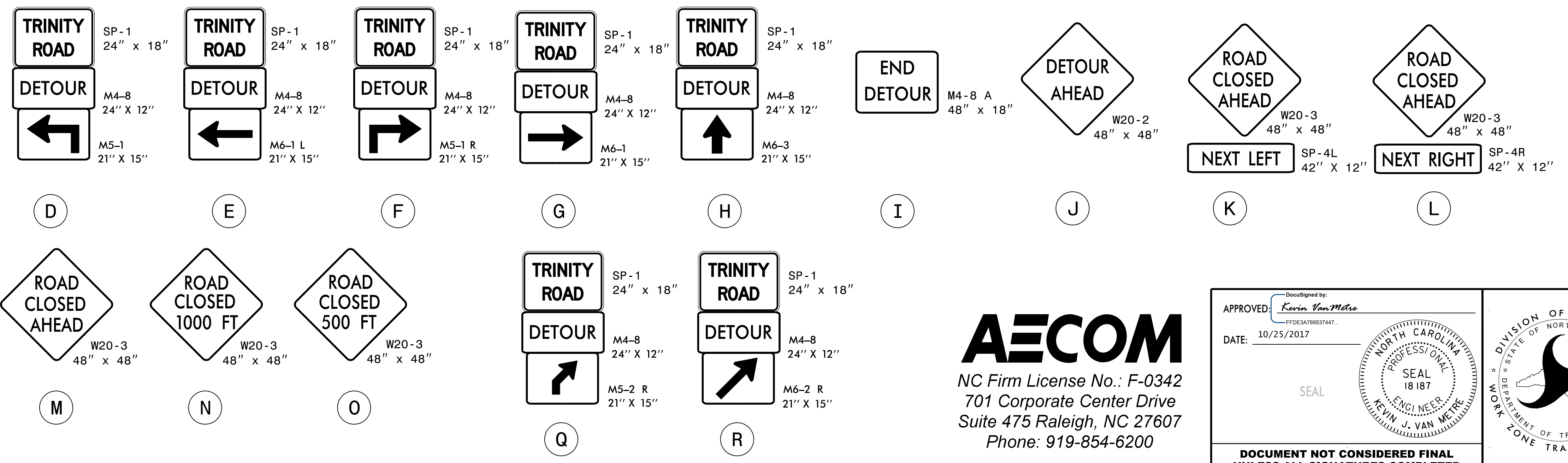
CHANGEABLE MESSAGE SIGN

(P1)

MESSAGE NO. 1	MESSAGE NO. 2
TRINITY ROAD	FOLLOW
CLOSED	POSTED
	DETOUR

CHANGEABLE MESSAGE SIGN

(P2)



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 Phone: 919-854-6200

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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 KEVIN J. VAN METER

DETOUR DETAILS

10/25/2017 R:\Traffic\TrafficControl\CP\W5522-TC-TMP-psn-10.dgn scheield