

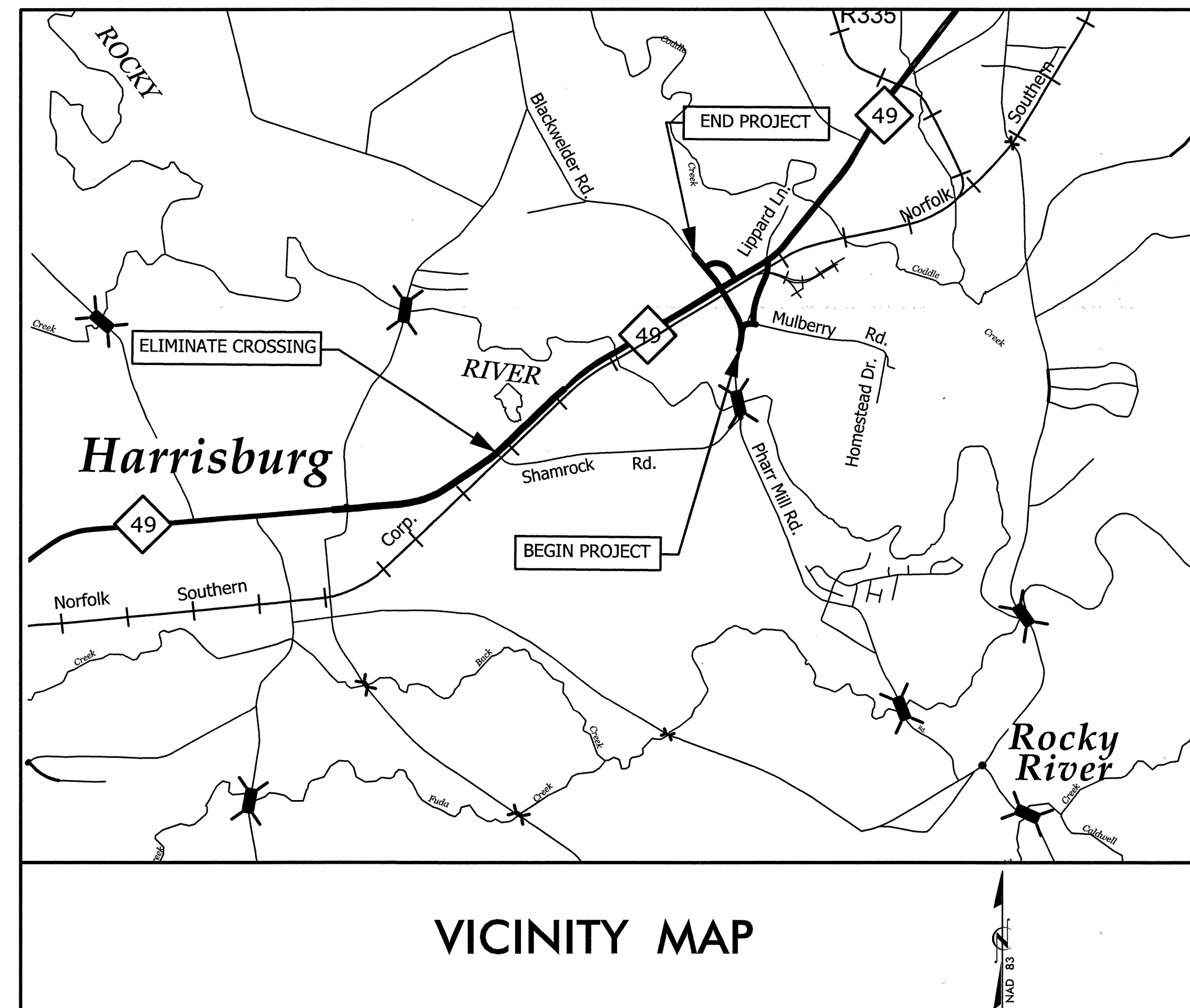
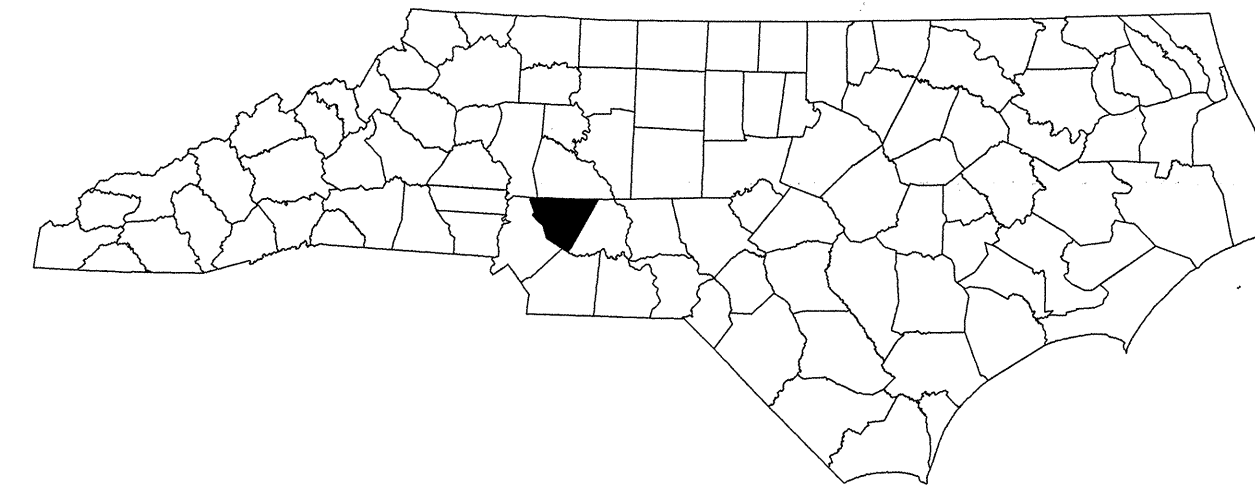
DCN:
0053DELP10a2

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS



TRANSPORTATION MANAGEMENT PLAN

CABARRUS COUNTY



**LOCATION: PHARR MILL ROAD /BLACKWELDER ROAD
GRADE SEPARATION OVER NCRR /NS**
**TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNALS,
AND STRUCTURES**

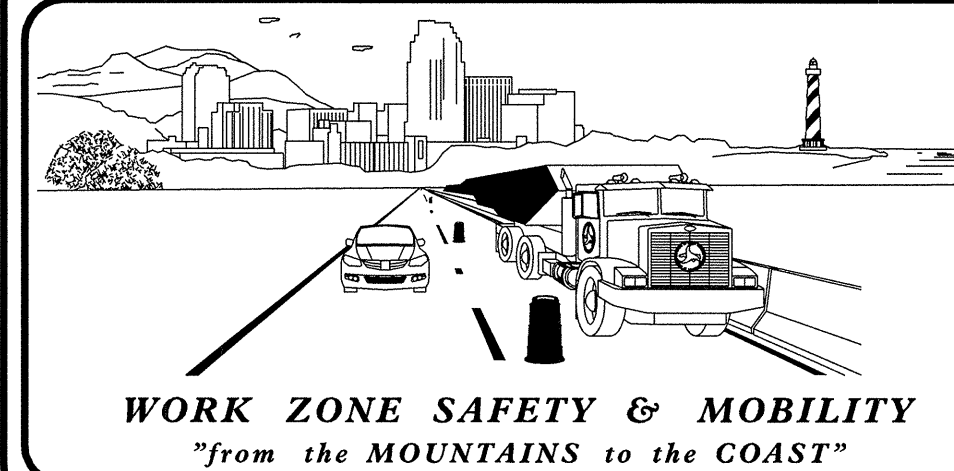
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES)
TMP-2	PHASING
TMP-3	PHASE I OVERVIEW
TMP-4-6	PHASE I DETAILS
TMP-7	PHASE II OVERVIEW
TMP-8-10	PHASE II DETAILS
TMP-11-12	PHASE III DETAILS

SHEET NO.
TMP-1

P-5208B

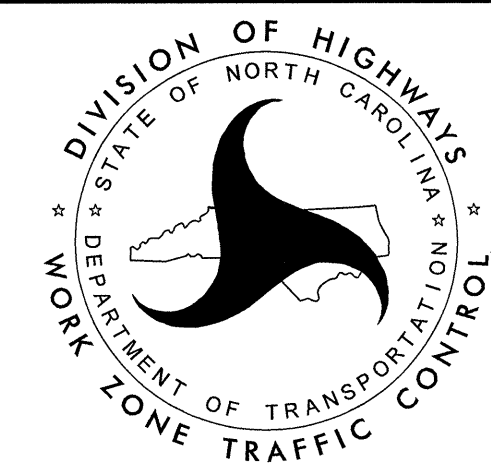
TIP PROJECT:

\$\$\$\$\$ SYSTEM TIME\$\$\$\$\$
\$\$\$\$\$ USER NAME\$\$\$\$\$



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

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TRAFFIC CONTROL DESIGN ENGINEER



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APPROVED: *St. Miller*
DATE: 1-30-15

SEAL

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 2012 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 - TYPE III
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION - REFLECTIVE END TREATMENT
1170.01	POSITIVE PROTECTION
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
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

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- REMOVAL
- WEDGING
- USER DEFINED (IF NEEDED)

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

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION
	TEMPORARY PAVEMENT MARKINGS
	PAINT(24")
P2	WHITE STOPBAR
	COLD APPLIED PLASTIC (4") TYPE 4 - REMOVABLE TAPE
CA	WHITE EDGELINE
CI	YELLOW DOUBLE CENTER
	PAINT(4")
P8	2 FT. - 6 FT./SP WHITE MINISKIP
P9	2 FT. - 6 FT./SP YELLOW MINISKIP
PA	WHITE EDGELINE
PB	YELLOW EDGELINE
PC	10 FT. WHITE SKIP
PD	3 FT. - 9 FT./SP WHITE MINISKIP
PE	WHITE SOLID LANE LINE
PI	YELLOW DOUBLE CENTER
	PAINT(8")
PN	WHITE GORELINE
PO	WHITE DIAGONAL
	PAINTMARKING SYMBOLS
QA	LEFT TURN ARROW
QB	RIGHT TURN ARROW
QC	STRAIGHT ARROW
QT	U-TURN ARROW
	MARKERS
	TEMPORARY RAISED PAVEMENT MARKERS
MH	YELLOW & YELLOW
MI	CRYSTAL & RED

\$\$\$\$\$ SYSTEMS \$\$\$
 \$\$\$ DCN: 0053DELP10a2 \$\$\$
 \$\$\$ USER NAME \$\$\$

APPROVED:	DATE: 1-30-73		ROADWAY STANDARD DRAWINGS & LEGEND

DCN: 0053DELP10a2

MANAGEMENT STRATEGIES

-ACCESS TO DRIVEWAYS WILL BE MAINTAINED THROUGHOUT THE PROJECT

-THE CONNECTOR ROAD, -Y3-, WILL BE CONSTRUCTED AND OPENED BEFORE THE EXISTING NC 49/BLACKWELDER ROAD INTERSECTION IS CLOSED IN ORDER TO MAINTAIN ACCESS TO BLACKWELDER ROAD.

-PHARR MILL ROAD TRAFFIC WILL BE MAINTAINED DURING CONSTRUCTION THROUGH THE USE OF WEDGING AND LANE CLOSURES.

-EXISTING RAILROAD CROSSINGS WILL NOT BE ELIMINATED UNTIL THE ALTERNATE ROUTE IS COMPLETED.

GENERAL NOTES

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

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

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 49	MONDAY THROUGH FRIDAY 7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 7:00 P.M.

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

ROAD NAME
NC 49

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS DAY.
- FOR ANY NASCAR EVENT AT THE LOWES MOTOR SPEEDWAY BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE THE WEEKEND OF THE EVENT AND 7:00 P.M. THE FOLLOWING MONDAY AFTER THE EVENT.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
NC 49	MONDAY - FRIDAY 7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 7:00 P.M.	GIRDER HANGING 30 MINUTES

D) DO NOT CONDUCT SINGLE OR MULTI-VEHICLE HAULING AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 49	MONDAY THROUGH FRIDAY 7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 7:00 P.M.

E) 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

F) 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.

G) 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.

H) 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.

I) 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.

J) 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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

K) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

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

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

N) 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.

O) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

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

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

R) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 100 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

S) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

T) 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 SHOWN IN THE PLANS.

TRAFFIC CONTROL DEVICES

U) 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.

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

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS (ASPHALT)	PAINT	TEMPORARY RAISED
BRIDGE DECK	COLD APPLIED PLASTIC TYPE IV (TAPE)	

X) 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.

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

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

MISCELLANEOUS

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

PROJ. REFERENCE NO. P-5208B	SHEET NO. TMP-1B
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SYSTEM TIME: 11/13/13 10:00:00 AM

APPROVED: *[Signature]* DATE: 1-30-13

SEAL

TRANSPORTATION OPERATIONS PLAN

DCN:
0053DELP10a2

PHASING

PROJ. REFERENCE NO.	SHEET NO.
P-5208B	TMP-2

MAINTAIN DRIVEWAY ACCESS THROUGHOUT THE ENTIRE PROJECT.
AT THE END OF EACH WORK DAY, REPLACE ANY EXISTING PAVEMENT MARKING
OBLITERATED DURING CONSTRUCTION OPERATION WITH TEMPORARY MARKING
(PAINT) AND OPEN ALL LANES TO TRAFFIC.

PHASE I

STEP 1: USING ROADWAY STANDARD DRAWING (RSD) 1101.01, INSTALL ADVANCE WARNING SIGNS ON NC 49 (UNIVERSITY BOULEVARD), BLACKWELDER ROAD (SR 1307), PHARR MILL ROAD (SR 1158), AND MULBERRY ROAD (SR 1159).

STEP 2: USING RSD 1101.02 SHEETS 1 AND 3 OF 15, BEGIN CONSTRUCTION AWAY FROM TRAFFIC AS SHOWN ON TMP-3 THROUGH TMP-6 UP TO BUT NOT INCLUDING THE FINAL SURFACE LAYER AS FOLLOWS:

- L- STA 11+30± TO 24+56±
 - L- STA 31+00± TO 39+00±
 - Y1- STA 10+00± TO 11+00±
 - Y2- STA 10+00± TO 18+23±
 - Y3- STA 10+00± TO 19+00±
 - Y4- STA 10+00± TO 18+50± RIGHT
 - Y4- STA 10+00± TO 25+00± LEFT
 - Y5- STA 11+13± TO 15+59±
 - Y6- STA 8+38± TO 29+50±
- BEGIN SIGNAL INSTALLATION.

STEP 3: A) USING RSD 1101.02 SHEETS 1 AND 3 OF 15, COMPLETE CONSTRUCTION AS SHOWN ON TMP-4 AND TMP-6 UP TO BUT NOT INCLUDING THE FINAL SURFACE LAYER AS FOLLOWS:

- L- STA 31+00± TO 39+00± USING WEDGING AS NECESSARY
 - Y3- STA 10+00± TO 19+00±
 - Y4- STA 10+00± TO 18+50± RIGHT, 25+00± LEFT EXCEPT FOR THE EXISTING ACCESS TO BLACKWELDER ROAD NEAR -Y4- STA 13+00.
- COMPLETE SIGNAL INSTALLATION.

B) PLACE TEMPORARY PAVEMENT MARKINGS SHOWN ON TMP-8 AND TMP-10 AS FOLLOWS:

- L- STA 31+84± TO STA 39+00±
- Y3- STA 10+33± TO 18+38±
- Y4- STA 10+00± TO 25+94±

REMOVE CONFLICTING MARKINGS. PLACE TEMPORARY MARKERS IN ACCORDANCE WITH RSD 1250.01.

C) PLACE DEVICES AS SHOWN ON TMP-8, OPEN -Y3- TO TRAFFIC, AND CLOSE THE EXISTING BLACKWELDER ROAD/NC 49 INTERSECTION.

PHASE II

STEP 1: USING RSD 1101.02 SHEET 3 OF 15, COMPLETE -Y4- CONSTRUCTION AT BLACKWELDER ROAD AND BEGIN CONSTRUCTION AS SHOWN ON TMP-8 FROM -L- STA 24+56± TO 31+00± UP TO BUT NOT INCLUDING THE FINAL SURFACE LAYER.

CLOSE LANES ON -Y4- USING PORTABLE CONCRETE BARRIER AS SHOWN IN THE INSET OF TMP-8 TO FACILITATE CONSTRUCTION OF THE CENTER BENT NEAR STATION -L- 25+40±.
FOR ERECTION OF BRIDGE GIRDERS OVER NC 49, USE RSD 1101.03 SHEET 9 OF 9.

STEP 2: A) USING RSD 1101.02 SHEET 1 OF 15 AND WEDGING AS NECESSARY TO CONSTRUCT TIE-INS, COMPLETE CONSTRUCTION AS SHOWN ON TMP-9 UP TO BUT NOT INCLUDING THE FINAL SURFACE LAYER AS FOLLOWS:

- L- STA 10+00± TO 31+00±
- Y1- STA 14+25± TO 15+80±
- Y2- STA 10+00± TO 18+23±

B) PLACE TEMPORARY PAVEMENT MARKINGS SHOWN ON TMP-11 AND TMP-12 AS FOLLOWS:

- L- STA 10+00± TO STA 31+15±
- Y1- STA 14+73± TO 15+80±
- Y2- STA 10+23± TO 18+23±

REMOVE CONFLICTING MARKINGS. PLACE TEMPORARY MARKERS IN ACCORDANCE WITH RSD 1250.01.

C) ACTIVATE THE NC 49/-Y3- INTERSECTION SIGNAL AND DEACTIVATE THE NC 49/PHARR MILL ROAD INTERSECTION SIGNAL. PLACE DEVICES AS SHOWN ON TMP-12, OPENING -L- AND -Y2- TO TRAFFIC, AND CLOSING PHARR MILL ROAD FROM -L- 14+00± TO -Y2- 16+50± AND MULBERRY ROAD USING RSD 1101.03.

PHASE III

STEP 1: USING RSD 1101.02 SHEETS 1 AND 3 OF 15, COMPLETE CONSTRUCTION OF -Y1-, -Y4-, -Y5-, AND -Y6- INCLUDING THE FINAL SURFACE LAYER.

USING RSD 1101.03 SHEETS 1 AND 2 OF 9, CLOSE SHAMROCK ROAD AND CONSTRUCT THE CUL-DE-SAC BULB ON SHAMROCK ROAD AS SHOWN IN THE ROADWAY PLANS.

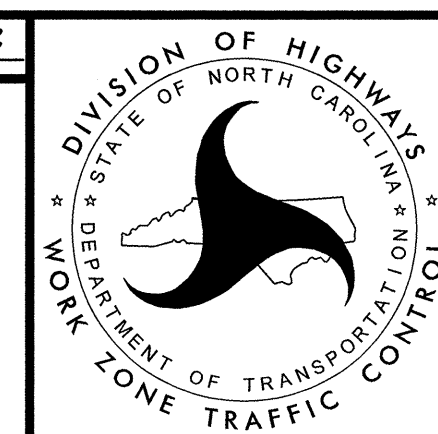
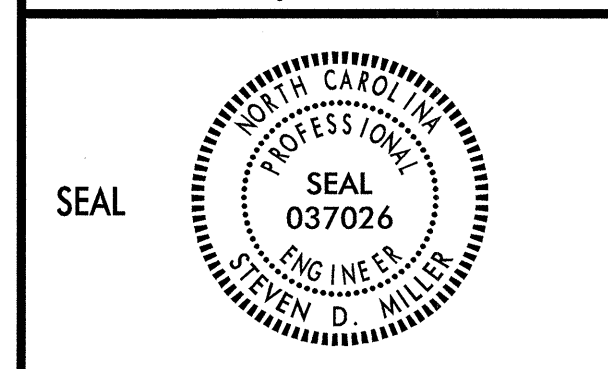
USING RSD 1101.02 SHEETS 1 AND 3 OF 15, CONSTRUCT FINAL SURFACE LAYER AND INSTALL FINAL PAVEMENT MARKINGS AS SHOWN ON THE PAVEMENT MARKING PLANS FOR ALL ROADS.

STEP 2: USING RSD 1101.03 SHEETS 1 AND 2 OF 9, REMOVE THE EXISTING RAILROAD CROSSING AT PHARR MILL ROAD AND THE EXISTING RAILROAD CROSSING AT SHAMROCK ROAD.

STEP 3: REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

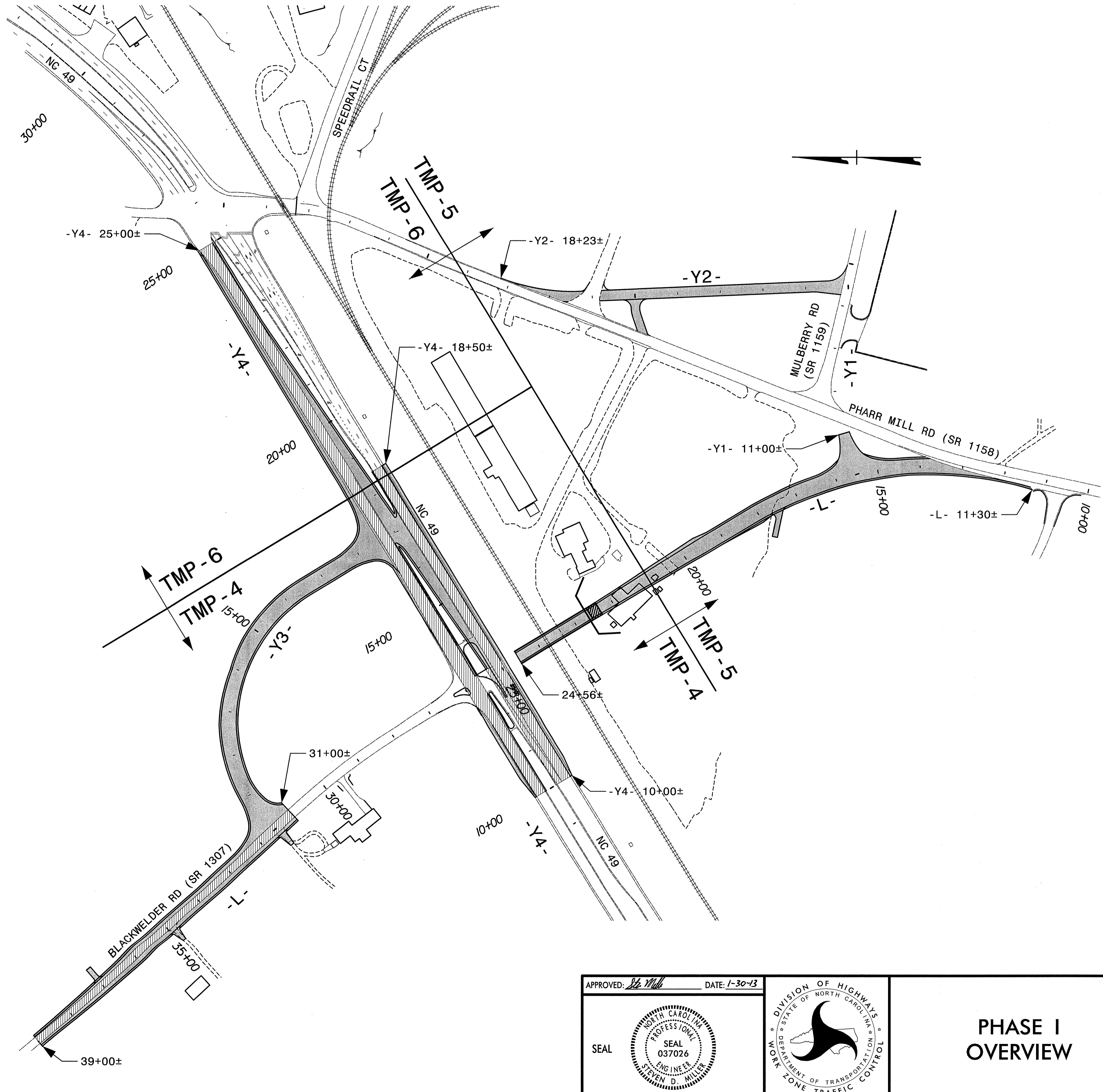
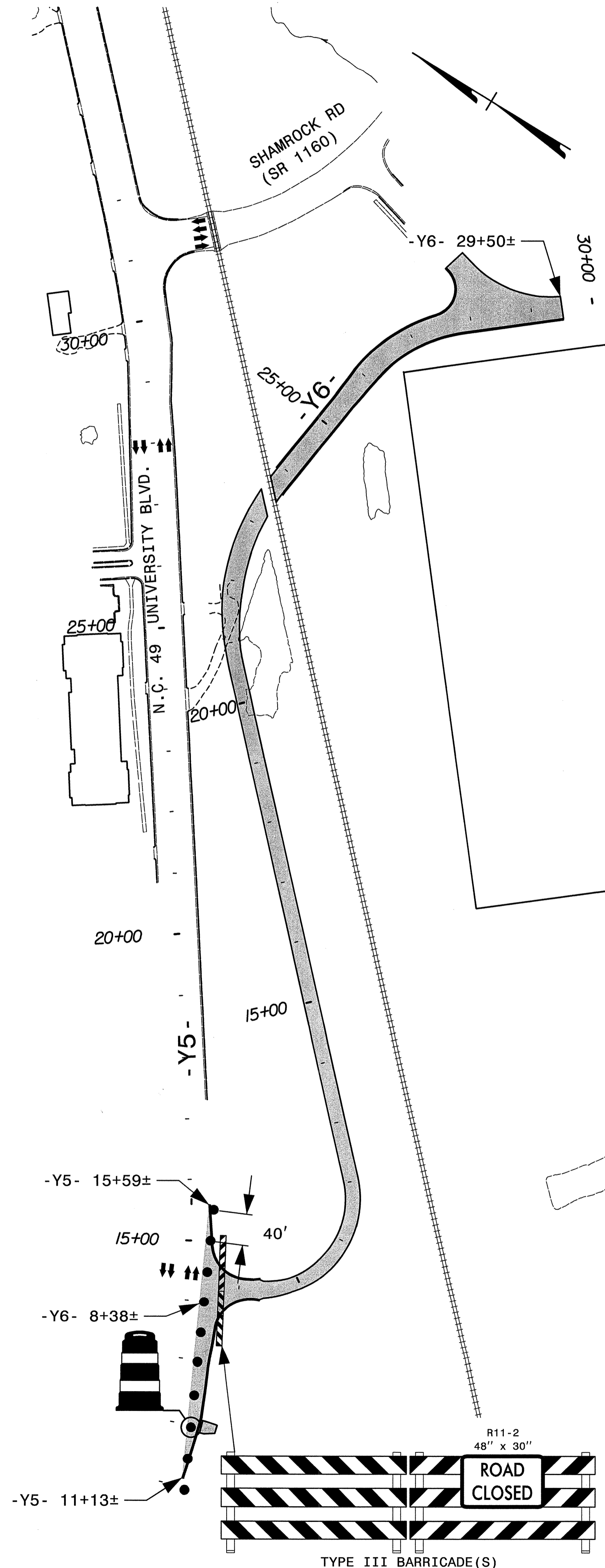
SYSTEMS

APPROVED: *St. Miller* DATE: 1-30-13



PHASING

DCN: 0053DELP10a2



SYSTEM TIME\$\$\$\$
DESIGN\$\$\$\$
SERIALS\$\$\$\$

APPROVED: *[Signature]* DATE: 1-30-13

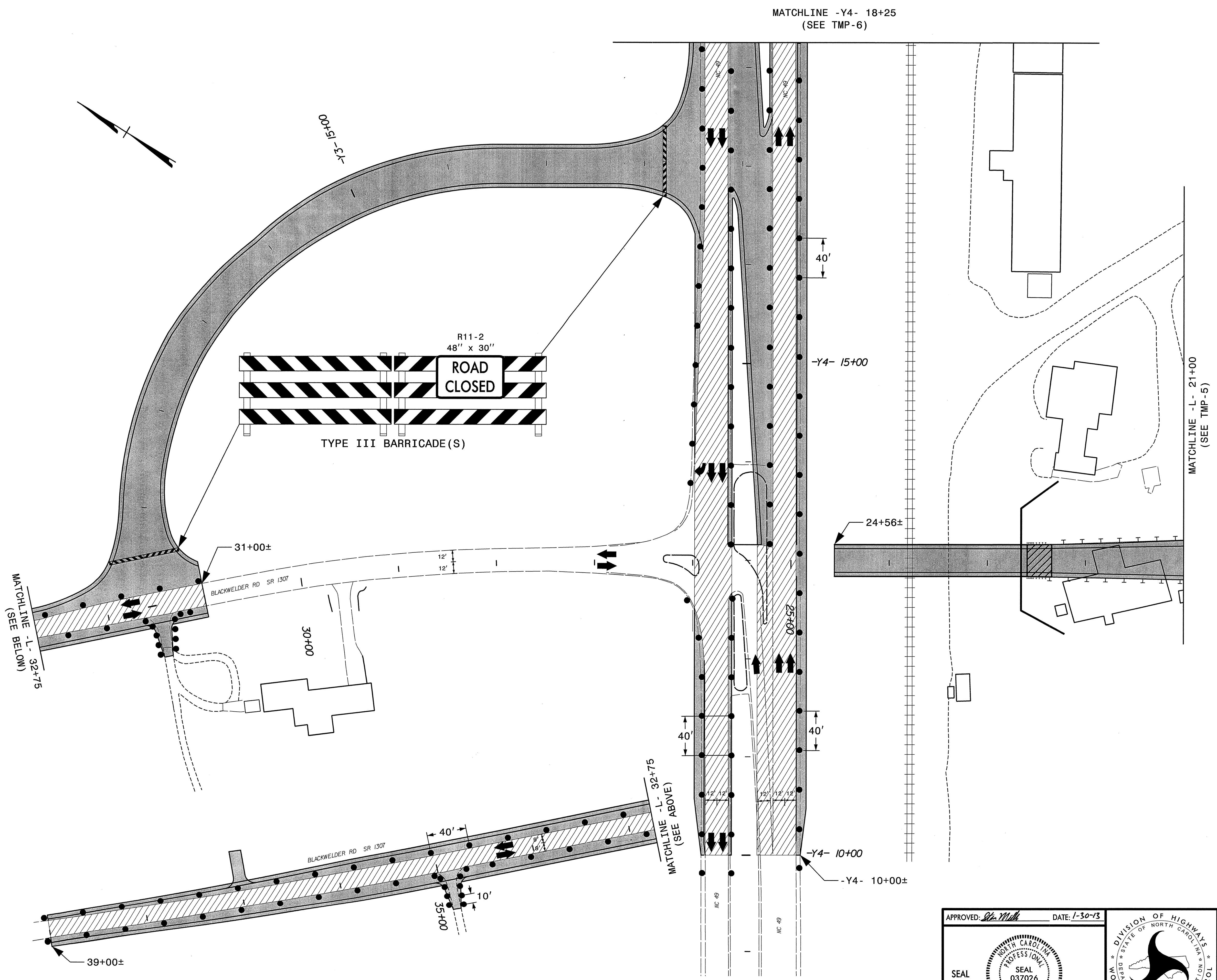
SEAL



PHASE I
OVERVIEW

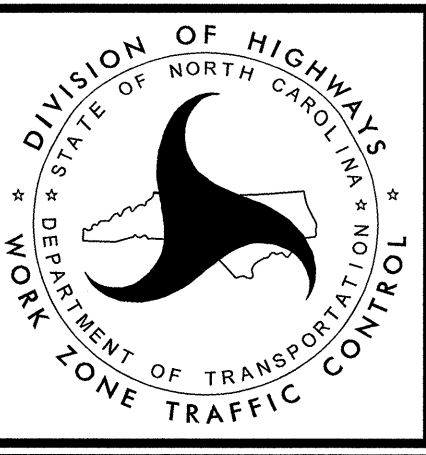
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PROJ. REFERENCE NO. P-5208B	SHEET NO. TMP-4
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APPROVED: *[Signature]* DATE: 1-30-13

SEAL

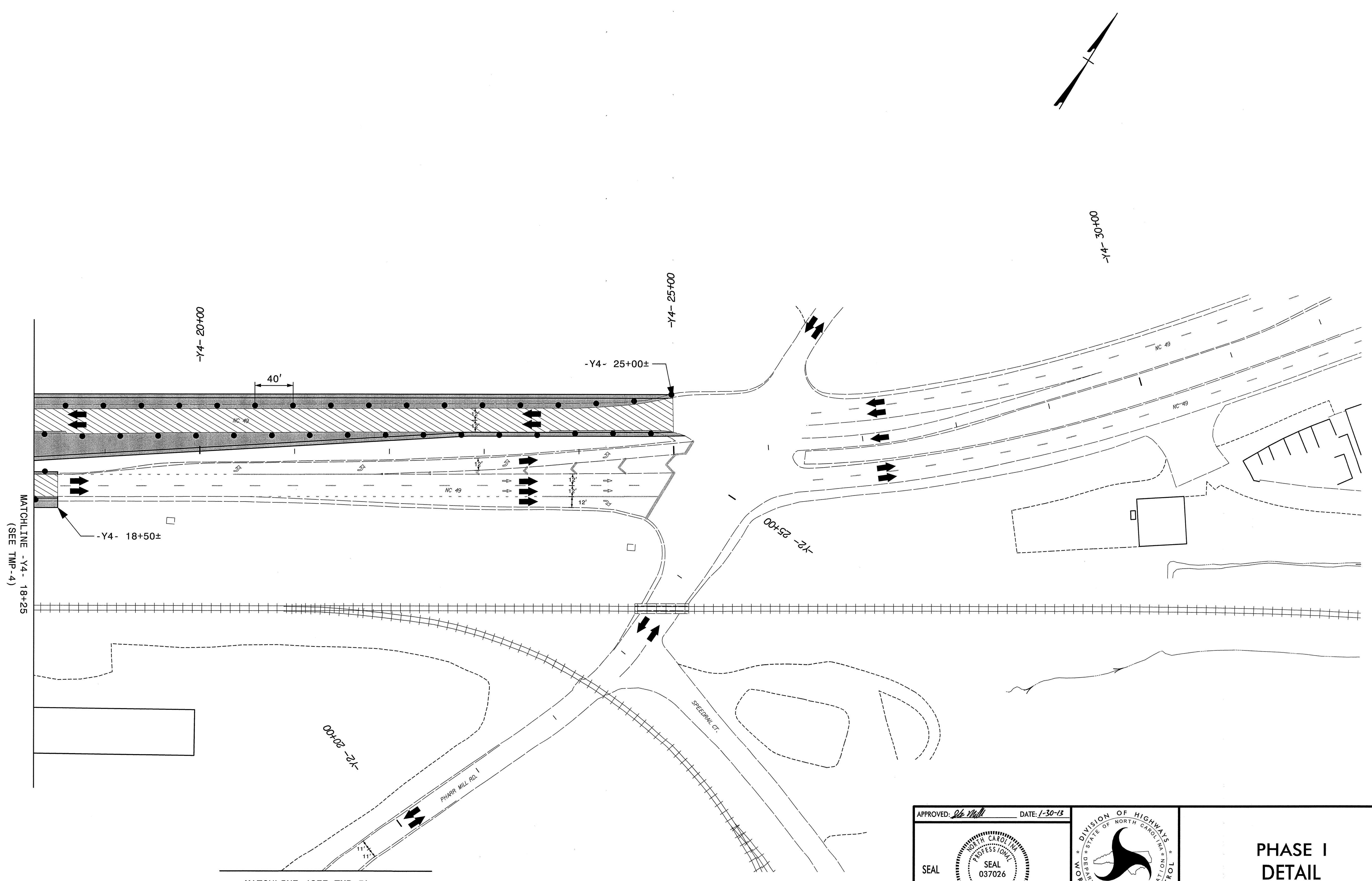


PHASE I
DETAIL

 SYSTEMS
 STATION
 2013/02/01 10:00 AM
 USERNAME

DCN:
0053DELP10a2

PROJ. REFERENCE NO.	SHEET NO.
P-5208B	TMP-6

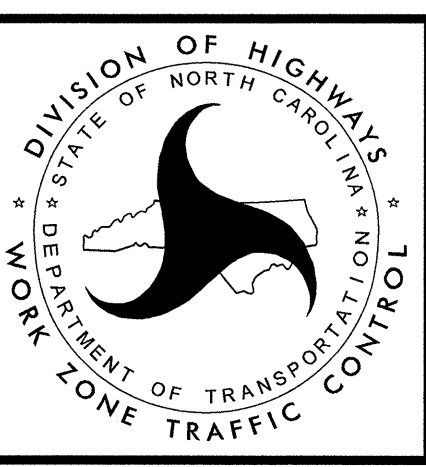


\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$DATE\$\$\$\$
\$\$\$\$DCN\$\$\$\$
\$\$\$\$USERNAME\$\$\$\$

APPROVED: *St. Miller* DATE: 1-30-13

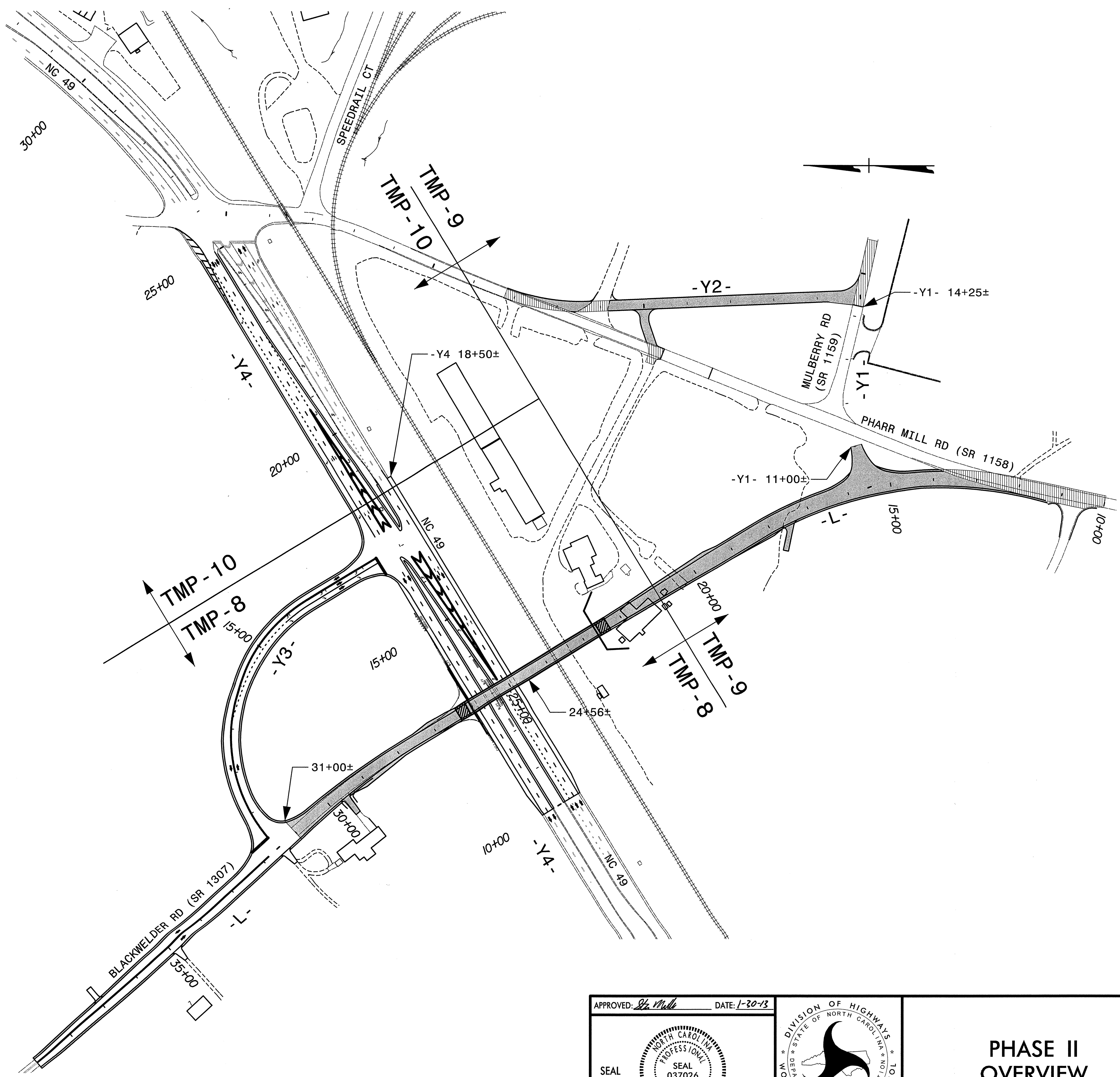
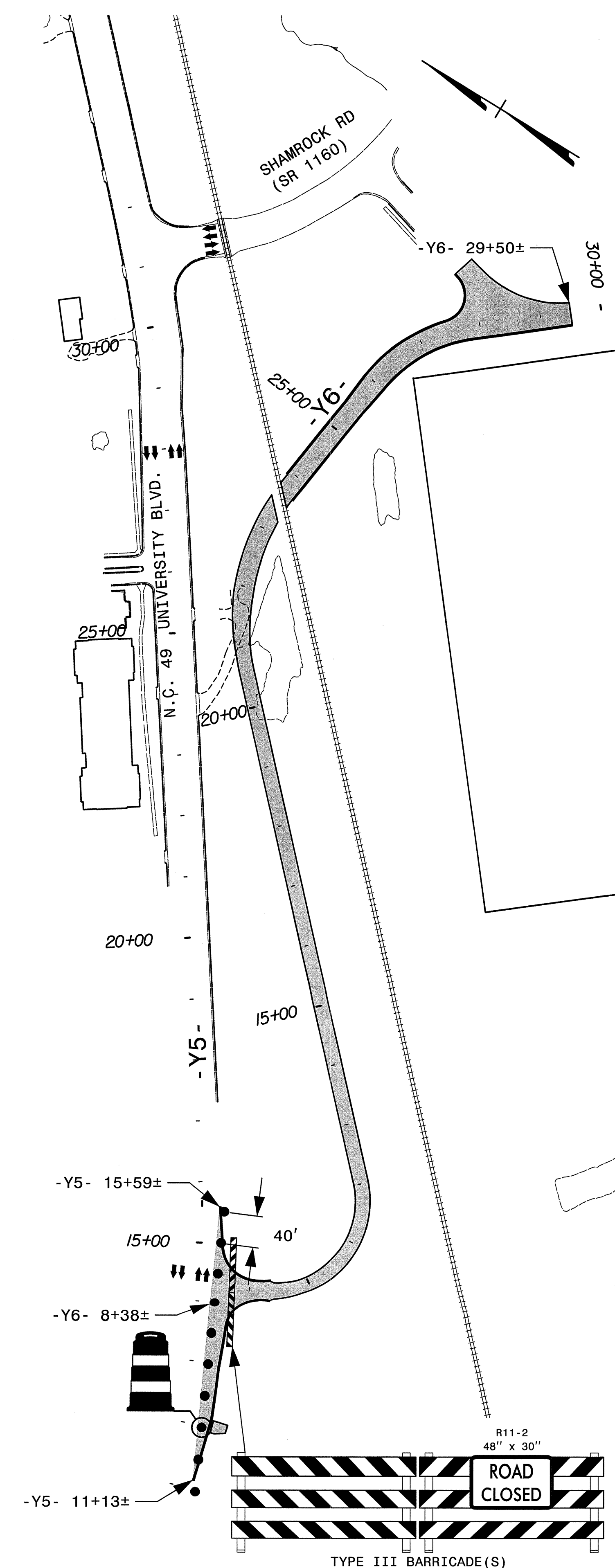
SEAL

SEAL
037026
ENGINEER
STEVEN D. MILLER
NORTH CAROLINA



PHASE I
DETAIL

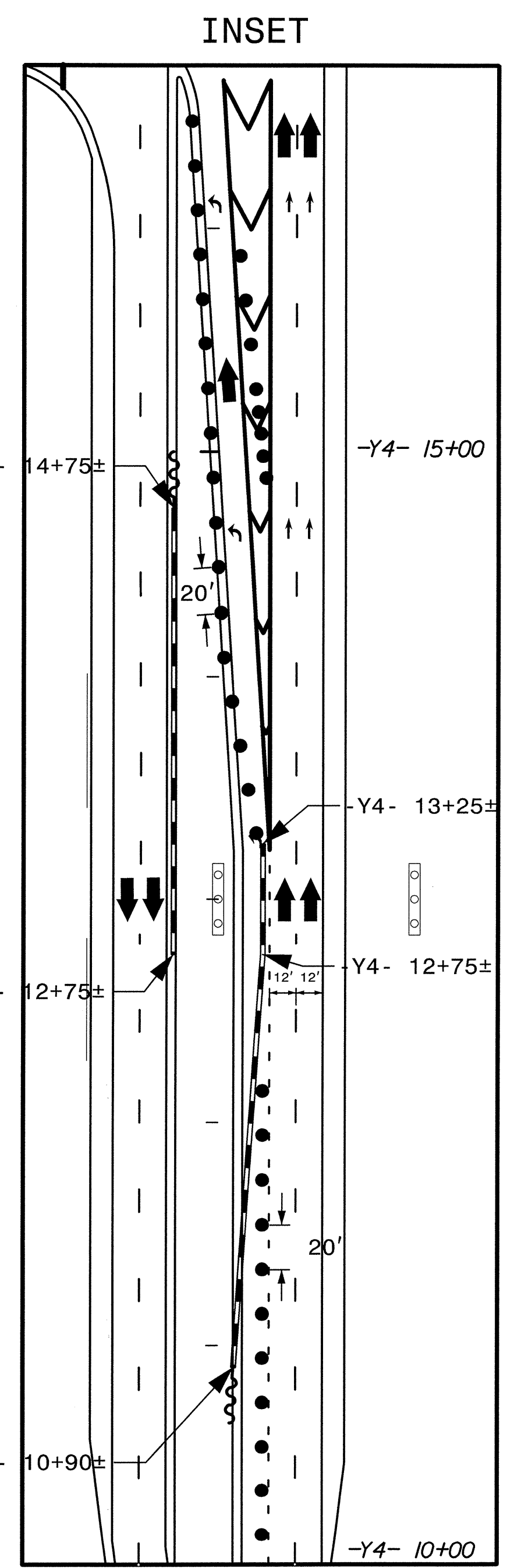
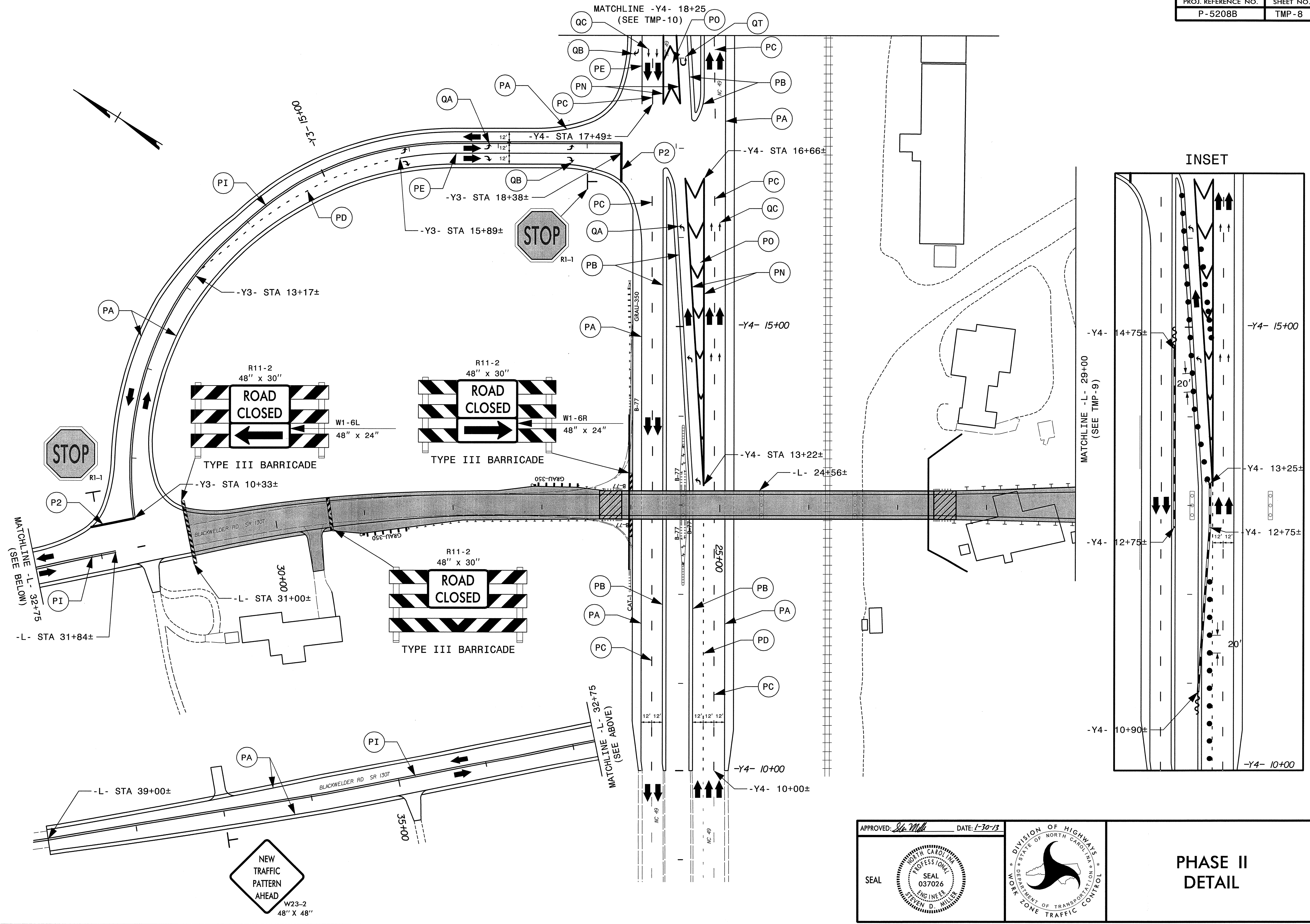
DCN: 0053DELP10a2



APPROVED: <i>[Signature]</i> DATE: 1-20-13			<h2>PHASE II OVERVIEW</h2>
SEAL			

DCN: 0053DELP10a2

PROJ. REFERENCE NO. P-5208B	SHEET NO. TMP-8
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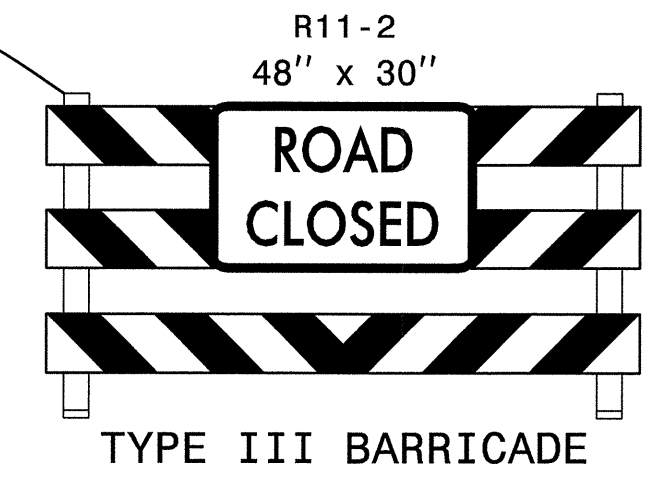
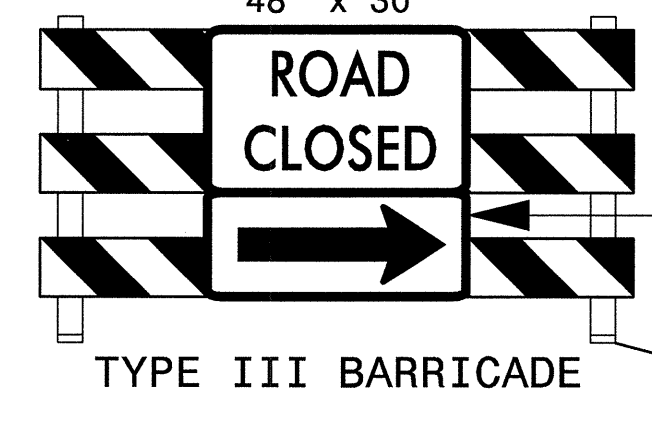
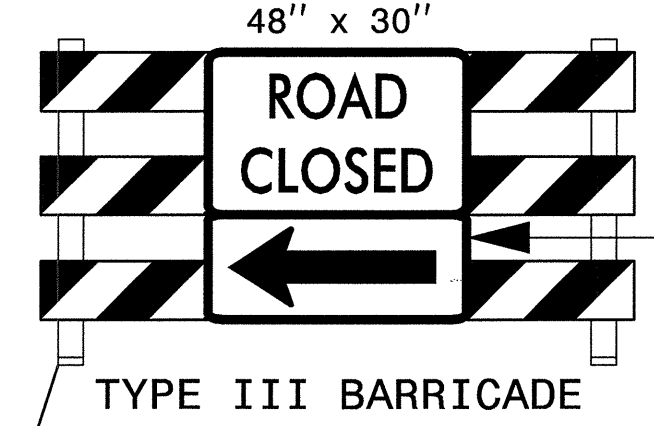
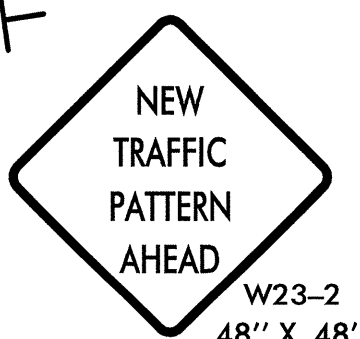
 SYSTEMS
 DESIGN

 USER

APPROVED: *[Signature]* DATE: 1-30-13

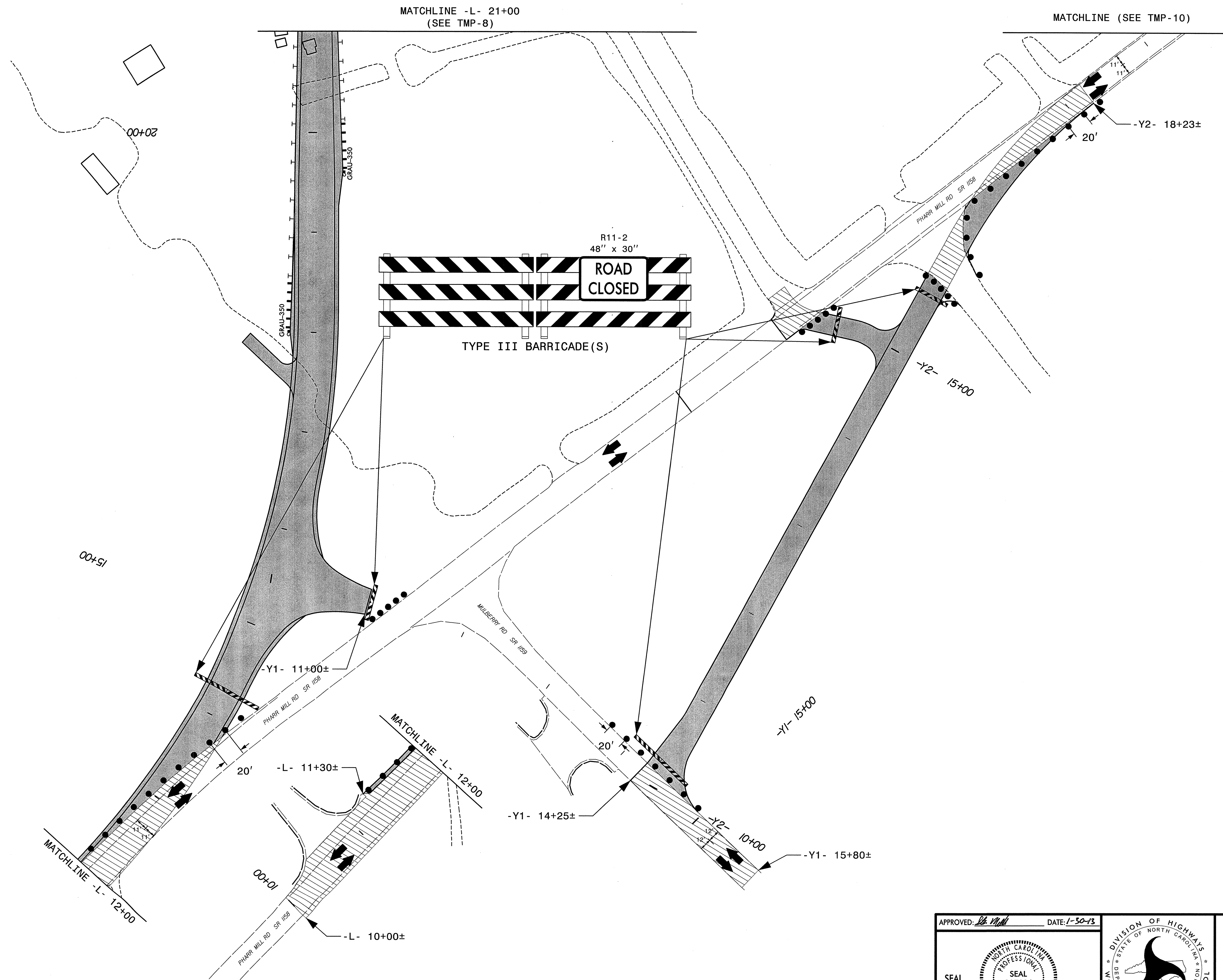
SEAL

**PHASE II
DETAIL**



DCN: 0053DELP10a2

PROJ. REFERENCE NO.	SHEET NO.
P-5208B	TMP-9



SYSTEM: \$\$\$\$\$\$
DRAWN: \$\$\$\$\$\$
USER: \$\$\$\$\$\$

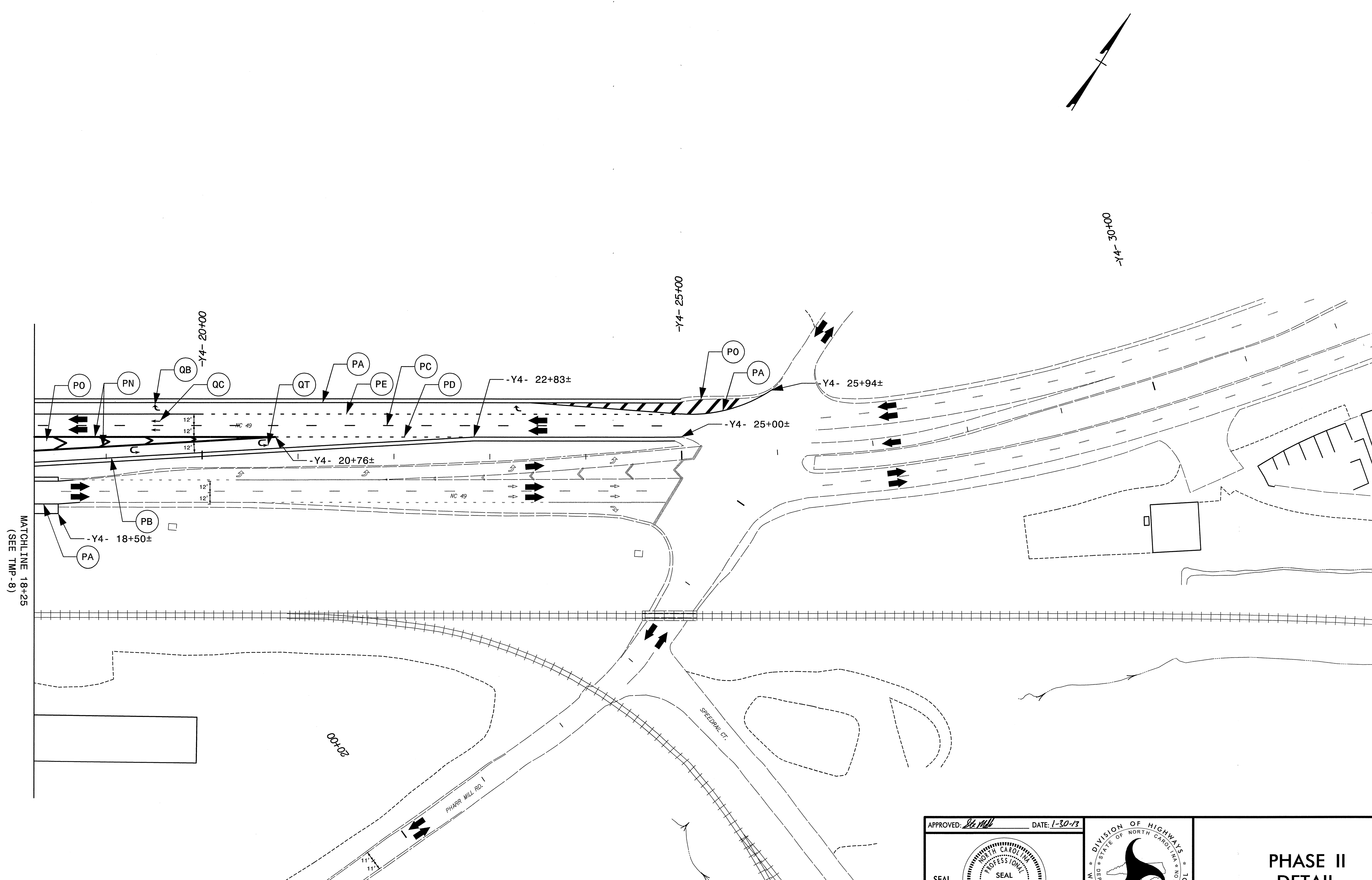
APPROVED: *[Signature]* DATE: 1-30-13

SEAL

**PHASE II
DETAIL**

DCN:
0053DELP10a2

PROJ. REFERENCE NO.	SHEET NO.
P-5208B	TMP-10



MATCHLINE 18+25
(SEE TMP-8)

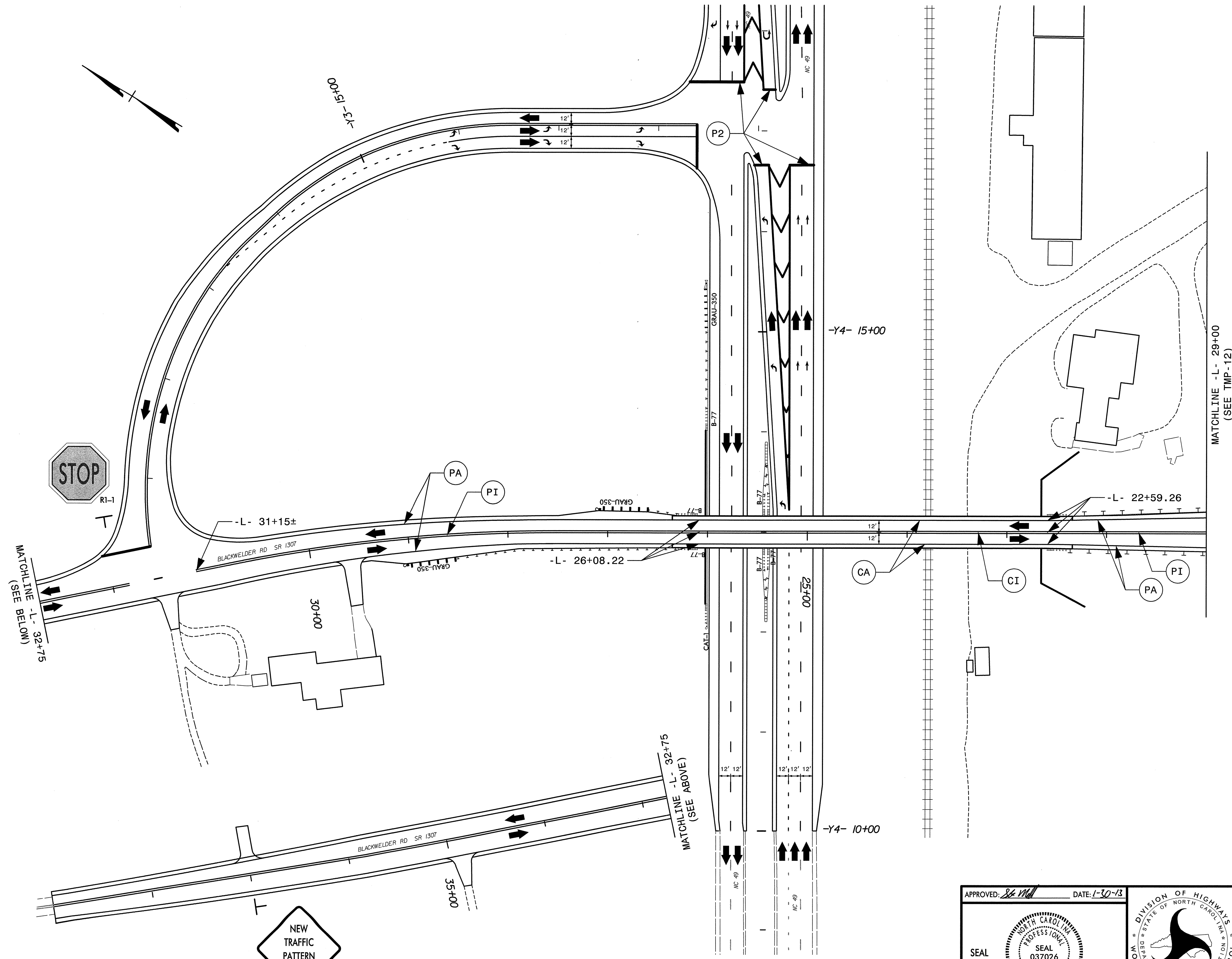
MATCHLINE (SEE TMP-9)

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$ADGN\$\$\$\$\$
\$\$\$\$\$SERNAME\$\$\$\$\$

APPROVED: <i>See Mill</i> DATE: 1-30-13			PHASE II DETAIL
SEAL			

DCN: 0053DELP10a2

PROJ. REFERENCE NO. P-5208B	SHEET NO. TMP-11
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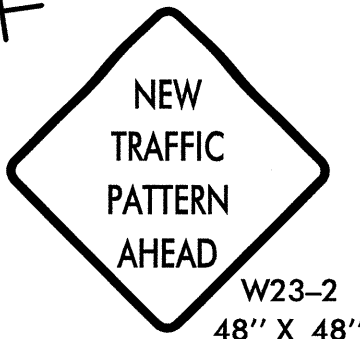


MATCHLINE - L - 32+75
(SEE BELOW)

MATCHLINE - L - 32+75
(SEE ABOVE)

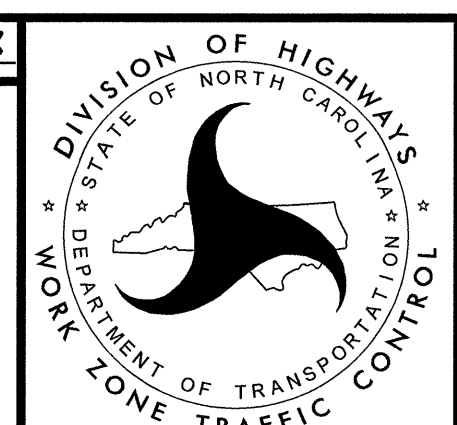
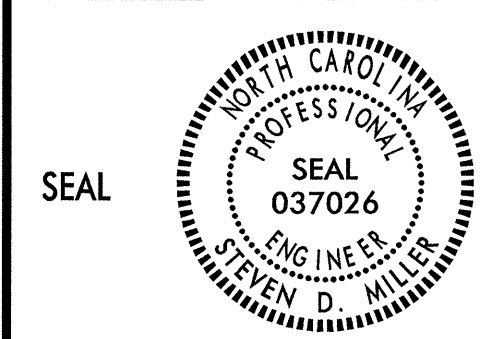
MATCHLINE - L - 29+00
(SEE TMP-12)

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DCN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$



W23-2
48" X 48"

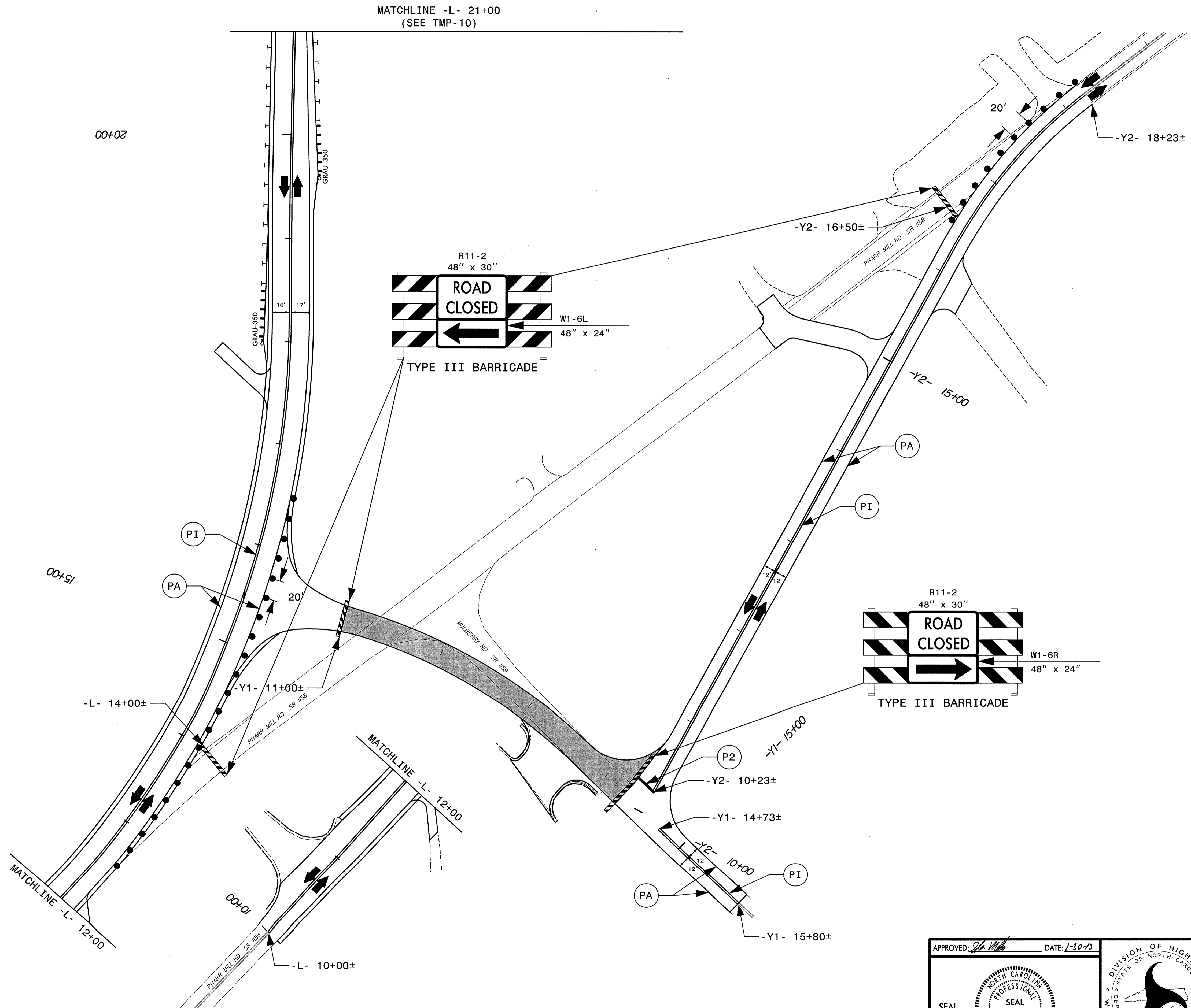
APPROVED: *[Signature]* DATE: 1-30-13



PHASE III
DETAIL

DCN: 0053DELP10a2

PROJ. REFERENCE NO. P-5208B	SHEET NO. TMP-12
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 SYSTEMS
 DESIGN
 USER NAME

APPROVED: *[Signature]* DATE: 1-30-13

SEAL

**PHASE III
DETAIL**