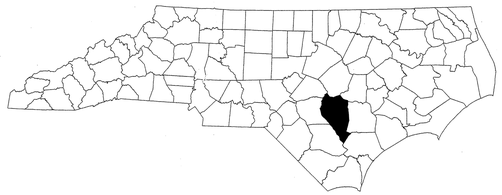
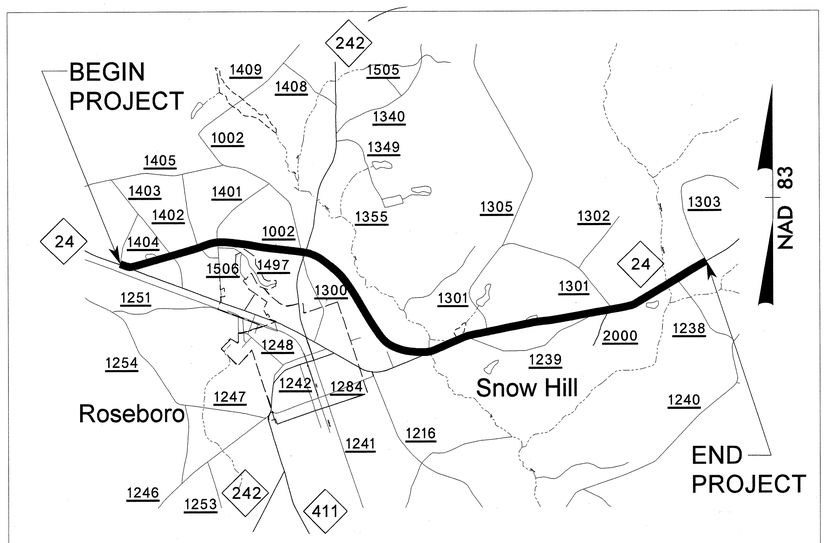
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

SAMPSON COUNTY





VICINITY MAP

INDEX OF SHEETS

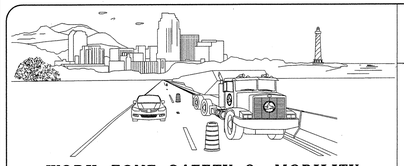
SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-2A THRU 2B	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES AND LOCAL NOTES)
TMP-3A THRU 3C	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 THRU 20	TEMPORARY TRAFFIC CONTROL PHASE I DETAILS
TMP-21 THRU 36	TEMPORARY TRAFFIC CONTROL PHASE II DETAILS
TMP-37 THRU 50	TEMPORARY TRAFFIC CONTROL PHASE III DETAILS
TMP-51 THRU 56	OFF SITE DETOUR ROUTES
TMP-57 THRU 58	SPECIAL SIGN DESIGNS

Part 2 of 2

SHEET NO.
TMP-1

R-2303C

TIP PROJECT:



WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1580 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1580
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DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PLAN PREPARED FOR N.C.D.O.T. BY:

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
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APPROVED: Lisa M. Moon
DATE: 4-24-2013

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-1A

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 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
1101.11	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 & OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE & MULTI-LANE ROADWAYS
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
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.
- WORK AREA
- REMOVAL
- WEDGING/OVERLAY OF EXIST
- ONGOING CONSTRUCTION
- TEMPORARY PAVEMENT

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM ◉ SKINNY DRUM ◎ TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD (TYPE C)
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- PORTABLE CHANGEABLE MESSAGE SIGN
- PORTABLE CONCRETE BARRIER (P.C.B.)
- WATER FILLED BARRIER (W.F.B.)
- ORANGE CONSTRUCTION FENCING

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

EXISTING PROPOSED TEMP TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

PA	WHITE EDGE LINE	PAINT (4")	LF
PB	YELLOW EDGE LINE	PAINT (4")	LF
PC	10 FT. WHITE SKIP	PAINT (4")	LF
PD	2 FT. WHITE MINISKIP	PAINT (4")	LF
PE	WHITE LANE LINE	PAINT (4")	LF
PF	YELLOW CENTER LINE	PAINT (4")	LF
PG	2 FT. YELLOW MINISKIP	PAINT (4")	LF
PH	10 FT. YELLOW SKIP	PAINT (4")	LF
PI	YELLOW DOUBLE CENTER LINE	PAINT (4")	LF
PS	WHITE DIAGONAL	PAINT (12")	LF
PV	YELLOW DIAGONAL	PAINT (8")	LF
PX	WHITE CROSSWALK LINE	PAINT (8")	LF
P1	WHITE GORELINE	PAINT (8")	LF
P4	WHITE STOP BAR	PAINT (24")	LF
QA	LEFT TURN ARROW MARKING SYMBOLS	PAINT	EA
QB	RIGHT TURN ARROW MARKING SYMBOLS	PAINT	EA
QC	STRAIGHT ARROW MARKING SYMBOLS	PAINT	EA
QD	COMBO. STRT / LT ARROW MARKING SYMBOLS	PAINT	EA
QE	COMBO. STRT / RT ARROW MARKING SYMBOLS	PAINT	EA
QF	COMBO. LT / RT ARROW MARKING SYMBOLS	PAINT	EA
QG	LEFT/RIGHT/STRAIGHT/ MARKING SYMBOLS	PAINT	EA
QI	ALPHANUMERIC CHARACTERS	PAINT CHARACTER	EA
MH	YELLOW & YELLOW, TEMPORARY RAISED PAVEMENT MARKER		EA
MI	CRYSTAL & RED, TEMPORARY RAISED PAVEMENT MARKER		EA
RA	WHITE EDGE LINE	REMOVABLE TAPE (4")	LF
RB	YELLOW EDGE LINE	REMOVABLE TAPE (4")	LF
RD	2 FT. WHITE MINISKIP	REMOVABLE TAPE (4")	LF
RE	WHITE LANE LINE	REMOVABLE TAPE (4")	LF
RF	YELLOW CENTER LINE	REMOVABLE TAPE (4")	LF
RI	YELLOW DOUBLE CENTER LINE	REMOVABLE TAPE (4")	LF

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

APPROVED: Lisa M. Moon DATE: 4-24-13

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

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 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 24	MONDAY THROUGH FRIDAY 7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 6:00 P.M.

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

ROAD NAME	HOLIDAY
NC 24	1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
	2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY,SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
	3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
	4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
	5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 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 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
	6. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
	7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY AND 6:00 P.M. MONDAY.
	8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

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.

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 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.

F) 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.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRANSPORTATION MANAGEMENT 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.

H) 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.

I) DO NOT INSTALL MORE THAN ONE MILE OF LANE CLOSURE ON NC 24 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

J) DO NOT INSTALL MORE THAN TWO SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON NC 24.

K) PROVIDE A MINIMUM OF 500' BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.

PAVEMENT EDGE DROP OFF REQUIREMENTS

L) 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.

M) 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

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

SIGNING

O) 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.

P) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRANSPORTATION MANAGEMENT PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRANSPORTATION MANAGEMENT PLANS.

Q) 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.

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

S) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

APPROVED Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

TRANSPORTATION OPERATIONS PLAN

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GENERAL NOTES CONTINUED

TRAFFIC CONTROL DEVICES

T) 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.

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

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

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED
BRIDGES	COLD APPLIED PLASTIC	NONE

INSTALL TEMPORARY RAISED MARKERS FOR INTERMEDIATE TRAFFIC PATTERNS IN ACCORDANCE WITH RSD 1250.01 AND 1251.01 UNLESS DETAILED OTHERWISE IN THE TMP.

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.

AA) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS/SKINNY DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION

MISCELLANEOUS

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

LOCAL NOTES

LN-1 RELAP EXISTING GUARDRAIL OR INSTALL TEMPORARY GUARDRAIL FOR CHANGE IN DIRECTION OF TRAFFIC ADJACENT TO GUARDRAIL. TEMPORARY APPROACH ANCHOR UNITS MAY BE NECESSARY. TEMPORARY GUARDRAIL AND TEMPORARY ANCHOR UNITS ARE ROADWAY DETAILS AND PAY ITEMS.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
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APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

TRANSPORTATION OPERATIONS PLAN

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PHASING

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-3A

PHASE I

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING DRIVEWAYS AS DIRECTED BY THE ENGINEER.

STEP 1 - INSTALL WORK ZONE ADVANCE WARNING SIGNS. SEE RSD 1101.01.

STEP 2 - AWAY FROM TRAFFIC, CONSTRUCT THE PROPOSED EASTBOUND BRIDGES ON -L- AS SHOWN ON TMP-12 AND TMP-18.

COMPLETE CONSTRUCTION OF THE EASTBOUND LANES OF -L- AND DETOURS 2, 3, 4 AND 5 AS SHOWN ON TMP-11 THROUGH TMP-13 AND TMP-17 THROUGH TMP-19.

COMPLETE CONSTRUCTION OF WIDENING/RESURFACING OF SR 1233. CONSTRUCTION MUST BE COMPLETED BEFORE PHASE II STEP I (INTERMEDIATE CONTRACT TIME) CAN BEGIN.

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF -L-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, AS SHOWN ON SHEETS TMP-4 THROUGH TMP-11 AND TMP-15 THRU TMP-17. MAINTAIN ACCESS TO SR 1354 AND E ROSEBORO STREET AT ALL TIMES.

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE WESTBOUND LANES OF -L-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, AS SHOWN ON SHEETS TMP-13 THROUGH TMP-15.

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF -Y26-, -Y33-, -Y33A-, -Y34-, AND -Y37- AS SHOWN ON TMP-6, TMP-11, TMP-13 AND TMP-16, RESPECTIVELY, INCLUDING ANY TEMPORARY TIES. -Y33- TO BE BUILT AT TEMPORARY GRADE.

USING RSD 1101.03 CLOSE -Y32- (E. NORTH STREET) PERMANENTLY (SEE TMP-9). USING RSD 1101.03, CLOSE -Y32-(DUNN RD). DETOUR TRAFFIC ALONG ROUTE SHOWN ON TMP-53. CONSTRUCT -Y32-, -Y32A-, AND -Y32B- AS SHOWN ON TMP-9 AND TMP-20. REOPEN -Y32- AND -Y32A- TO TRAFFIC IN 2L, 2W PATTERN.

CONSTRUCT -Y31A- AS SHOWN ON TMP-9. OPEN -Y31A- TO TRAFFIC IN 2L, 2W PATTERN.

CONSTRUCT OF 48″ CROSS PIPES AT STA. 1016+50. UTILIZE TYPICAL DETAIL SHOWN ON TMP-14 FOR CONSTRUCTION UNDER TRAFFIC.

STEP 3 - INSTALL AND COVER SIGNING FOR UPCOMING TRAFFIC SHIFTS.

STEPS 4 AND 5 MAY BE DONE IN EITHER ORDER AT THE DISCRETION OF THE CONTRACTOR

STEP 4 - COMPLETE CONSTRUCTION OF -Y34- AT TEMPORARY GRADE AND SHIFT TRAFFIC TO NEW ALIGNMENT OF -Y34- AND -L- FROM STA 927+00 +/- TO STA 972+00+/- IN THE FOLLOWING MANNER:

A - USING RSD 1101.03, CLOSE -Y34- (UNDERWOOD ROAD). DETOUR TRAFFIC ALONG ROUTE SHOWN ON TMP-54. COMPLETE CONSTRUCTION OF -Y34- AT TEMPORARY GRADE AS SHOWN ON TMP-13.

CONSTRUCT DETOUR 3 FROM STA 965+68 TO STA 971+80 AS SHOWN ON TMP-13.

B - WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, SHIFT THE NC 24 TRAFFIC IN THE FOLLOWING SEQUENCE:

i. USING RSD 1101.02 AND FLAGGERS, PLACE TRAFFIC IN 1L, 2W PATTERN IN EXISTING WB LANE.

ii. WITH TRAFFIC IN EXISTING WB LANE, TIE IN THE PROPOSED EB LANE OF THE NEW PATTERN AND INSTALL A DOUBLE YELLOW CENTERLINE AS SHOWN ON TMP-26 AND TMP-28.

iii. USING LAW ENFORCEMENT, FLAGGERS AND PILOT VEHICLE DIRECT TRAFFIC TO NEWLY CONSTRUCTED -L- IN A 1L, 2W PATTERN IN THE EB LANE OF NEW EB -L-.

iv. WITH ALL TRAFFIC IN EB LANE, COMPLETE ALL REMAINING TIE-IN WORK RELATED TO THE TRAFFIC SHIFT. PLACE REMAINING MARKINGS AND MARKERS AS SHOWN ON TMP-26 THROUGH TMP-28.

STEP 4B CONTINUED

v. ENSURE ALL TRAFFIC CONTROL DEVICES AND SIGNING ON NC 24 ARE CORRECT AND OPEN LANES TO 2L, 2W TRAFFIC PATTERN AS SHOWN ON TMP-26 THROUGH TMP-28.

C - REOPEN -Y34- IN TRAFFIC PATTERN AS SHOWN ON TMP-28.

STEP 5 - COMPLETE CONSTRUCTION OF -Y38- AND SHIFT TRAFFIC TO NEW ALIGNMENT ON -L- FROM STA 1063+00 +/- TO STA 1106+20+/- IN THE FOLLOWING MANNER:

A - USING RSD 1101.03, CLOSE -Y38- (MCLEMORE ROAD). DETOUR TRAFFIC ALONG ROUTE SHOWN ON TMP-55. CONSTRUCT -Y38- AS SHOWN ON TMP-18.

B - WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, SHIFT THE NC 24 TRAFFIC IN THE FOLLOWING SEQUENCE:

i. INSTALL AND COVER SIGNING FOR UPCOMING TRAFFIC SHIFTS.

ii. USING RSD 1101.02 AND FLAGGERS, PLACE TRAFFIC IN 1L, 2W PATTERN IN EXISTING WB LANE.

iii. WITH TRAFFIC IN EXISTING WB LANE, TIE IN THE PROPOSED EB LANE OF THE NEW PATTERN AND INSTALL A DOUBLE YELLOW CENTERLINE AS SHOWN ON TMP-29 AND TMP-31.

iv. USING LAW ENFORCEMENT, FLAGGERS AND PILOT VEHICLE DIRECT TRAFFIC TO NEWLY CONSTRUCTED -L- IN A 1L, 2W PATTERN IN THE EB LANE OF NEW EB -L-.

v. WITH ALL TRAFFIC IN EB LANE, COMPLETE ALL REMAINING TIE-IN WORK RELATED TO THE TRAFFIC SHIFT. PLACE REMAINING MARKINGS AND MARKERS AS SHOWN ON TMP-29 THROUGH TMP-31.

vi. ENSURE ALL TRAFFIC CONTROL DEVICES AND SIGNING ON NC 24 ARE CORRECT AND OPEN LANES TO 2L, 2W TRAFFIC PATTERN AS SHOWN ON TMP-29 THROUGH TMP-31.

C - REOPEN -Y38- IN TRAFFIC PATTERN AS SHOWN ON TMP-30.

PHASE II

(CONTINUE ALL WORK BEGUN IN PHASE I)

THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED IN PHASE II STEP I WITHIN A 45 DAY PERIOD BETWEEN JUNE 15 AND THE FOLLOWING AUGUST 15 WHILE SCHOOL IS NOT IN SESSION. [SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES] THE CONTRACTOR MAY PERFORM THE WORK FOR PHASE II, STEP 1 CONCURRENTLY WITH ANY OTHER WORK BETWEEN PHASE II, STEP 2 AND PHASE II, STEP 4.

STEP 1 - USING RSD 1101.03, CLOSE -Y31- (NC 242, SALEMBURG HWY). DETOUR TRAFFIC ALONG ROUTE SHOWN ON TMP-53. CONSTRUCT -Y31- AS SHOWN ON TMP-21 AND TMP-22. CONTRACTOR IS TO CONSTRUCT -Y31- TO A PROFILE GRADE ELEVATION ACCEPTABLE TO THE ENGINEER SO THAT A SMOOTH RIDING SURFACE IS PROVIDED FOR VEHICLES TRAVELING IN A TWO LANE TWO WAY PATTERN (FINAL PROFILE ELEVATION TO BE BUILT UNDER FLAGGING OPERATION IN LATER STEP). REOPEN -Y31- IN TWO LANE, TWO WAY PATTERN AS SHOWN ON TMP-21.

APPROVED: Lisa M Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASING

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

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PHASING

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-3B

PHASE II CONTINUED

STEP 2 - AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE PROPOSED WESTBOUND BRIDGES ON -L- AS SHOWN ON TMP-27 AND TMP-30.

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE WESTBOUND LANES OF -L- AND DETOUR 1, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-23 THROUGH TMP-31.

USING RSD 1101.02, USE FLAGGERS TO COMPLETE TEMPORARY TIE TO EXISTING NC 24 AT -Y33- (SEE TMP-24). COMPLETE CONSTRUCTION OF -Y33- (AT TEMPORARY GRADE) AND -Y33A-. OPEN -Y33- AND -Y33A- TO TRAFFIC AND CLOSE SR 1354 AND E ROSEBORO STREET PERMANENTLY. ONCE SR 1354 AND E ROSEBORO STREET ARE CLOSED TO TRAFFIC, CONSTRUCT -L- FROM STA 903+75+/- TO STA 904+05+/- AND STA 921+25+/- TO 921+75+/- (SEE TMP-25 AND TMP-26).

STEP 3 - AWAY FROM TRAFFIC, COMPLETE CONSTRUCTION OF THE PROPOSED WESTBOUND BRIDGE ON -L- AS SHOWN ON TMP-27 AND TMP-30.

AWAY FROM TRAFFIC, COMPLETE CONSTRUCT OF THE WESTBOUND LANES OF -L- AND DETOUR 1, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-23 THROUGH TMP-31.

USING RSD 1101.02, USE FLAGGERS TO COMPLETE CONSTRUCTION OF DETOUR 1 AS SHOWN ON TMP-23.

AWAY FROM TRAFFIC, COMPLETE CONSTRUCTION OF -L- THAT WAS BEGUN IN PHASE I OR PHASE II, STEP 2, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON SHEET TMP-23 THROUGH TMP-31.

CONSTRUCT TEMPORARY TIE TO INTERIM PATTERN ON NC 24 AT -Y34- (SEE TMP-28).

STEP 4 - INSTALL AND COVER SIGNING FOR UPCOMING TRAFFIC SHIFTS.

STEP 5 - USING RSD 1101.03, CLOSE -Y25- (DOWDY ROAD), -Y28- (OLD BRICK MILL RD), -Y29- (FAIRCLOTH ROAD), AND -Y30- (LUCAS ROAD). DETOUR TRAFFIC ALONG ROUTES SHOWN ON TMP-52. CONSTRUCT -Y25- (DOWDY ROAD), -Y28- (OLD BRICK MILL RD), -Y29- (FAIRCLOTH ROAD), AND -Y30- (LUCAS ROAD) AS SHOWN ON TMP-32, TMP-33, AND TMP-34.

DO NOT OPEN -Y25-, -Y28-, -Y29-, AND -Y30- PRIOR TO FINISHING THE TRAFFIC SHIFT IN STEP 6.

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED IN PHASE II STEP 6 WITHIN A 45 DAY PERIOD. [SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES]

STEP 6 - COMPLETE -Y- LINE CONSTRUCTION AND SHIFT TRAFFIC TO NEWLY CONSTRUCTED -L- IN THE FOLLOWING MANNER:

A - USING RSD 1101.03, CLOSE -Y37- (MARION-AMOS RD). DETOUR TRAFFIC ALONG ROUTE SHOWN ON TMP-54. CONSTRUCT -Y37- AS SHOWN ON TMP-35. REOPEN -Y37- IN TWO LANE, TWO WAY PATTERN AS SHOWN ON TMP-35.

B - USING RSD 1101.03, CLOSE -Y35- (MARION-AMOS ROAD). DETOUR TRAFFIC ALONG ROUTES SHOWN ON TMP-54. CONSTRUCT -Y35- (MARION-AMOS ROAD), AS SHOWN ON TMP-36.

C - USING RSD 1101.02, USE FLAGGERS TO WEDGE AND COMPLETE CONSTRUCTION OF THE LANDFILL DRIVEWAY AS SHOWN IN INSET ON TMP-29.

INSTALL AND COVER SIGNING FOR UPCOMING TRAFFIC SHIFTS.

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED IN PHASE II STEP 6D WITHIN A SINGLE WORK PERIOD.

D - WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, SHIFT THE NC 24 TRAFFIC IN THE FOLLOWING SEQUENCE:

i. USING RSD 1101.02 AND FLAGGERS, PLACE TRAFFIC IN 1L, 2W PATTERN IN EXISTING EB LANE.

ii. WITH TRAFFIC IN EXISTING EB LANE, TIE IN THE PROPOSED WB LANE OF THE NEW PATTERN AND INSTALL A DOUBLE YELLOW CENTERLINE AS SHOWN ON TMP-38 AND TMP-50.

iii. PLACE FLAGGERS AT THE PROPOSED NC 24 INTERSECTION WITH -Y31- (NC 242 SALEMBURG HIGHWAY), LANDFILL DRIVEWAY AND -Y37- (MARION-AMOS ROAD).

iv. USING LAW ENFORCEMENT, FLAGGERS AND PILOT VEHICLE DIRECT TRAFFIC TO NEWLY CONSTRUCTED -L- IN A 1L, 2W PATTERN IN THE WB LANE OF NEW WB -L-.

v. WITH ALL TRAFFIC IN WB LANE, COMPLETE ALL REMAINING TIE-IN WORK RELATED TO THE TRAFFIC SHIFT. PLACE REMAINING MARKINGS AND MARKERS AS SHOWN ON TMP-38 THROUGH TMP-50.

vi. ENSURE ALL TRAFFIC CONTROL DEVICES AND SIGNING ON NC 24 ARE CORRECT AND OPEN LANES TO 2L, 2W TRAFFIC PATTERN AS SHOWN ON TMP-38 THROUGH TMP-50.

E- USING FLAGGERS, REOPEN -Y25- (DOWDY ROAD), -Y28- (OLD BRICK MILL RD), -Y29- (FAIRCLOTH ROAD), -Y30- (LUCAS ROAD), AND -Y35- (MARION-AMOS ROAD) IN TRAFFIC PATTERN AS SHOWN ON TMP-39, TMP-41, TMP-42 AND TMP-45.

PHASE III

STEP 1 - UNDER LANE CLOSURES, COMPLETE -Y31- (NC 242, SALEMBURG HWY) CONSTRUCTION TO FINAL PROFILE UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE (SEE TMP-37).

STEP 2 - AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF EB -L-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON SHEET TMP-38, TMP-39, TMP-43 THROUGH TMP-46 AND TMP-48.

CONSTRUCT -Y26- AND -Y33- AS SHOWN ON TMP-40 AND TMP-43. CONSTRUCT -Y33- FROM STA. 13+00 +/- TO STA. 15+50 +/- DURING CLOSURE OF -Y33-. USING FLAGGERS, WEDGE -Y33- TO FINAL GRADE AND CONSTRUCT -Y33- SIDE STREETS AS SHOWN ON TMP-43. MAINTAIN ACCES TO ADJACENT BUSINESSES.

USING RSD 1101.02, USE FLAGGERS TO WEDGE -Y34- (UNDERWOOD ROAD) UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE (SEE TMP-44).

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF AS MANY ISLANDS AS POSSIBLE.

USING RSD 1101.02, SHEET 1, CONSTRUCT CONCRETE ISLANDS AT ALL U-TURN LOCATIONS ALONG NC 24. INSTALL CONES ALONG EDGE OF ISLAND ADJACENT TO TRAFFIC AS SHOWN TMP-38 AND TMP-43 (TYPICALS) WHILE CONCRETE CURES. U-TURN LOCATIONS NOT DETAILED IN PLANS INCLUDE:

-L- STA. 759+04.07 +/-	-L- STA. 761+20.22 +/-	-L- STA. 804+42.31 +/-
-L- STA. 836+76.96 +/-	-L- STA. 852+76.97 +/-	-L- STA. 915+73.02 +/-
-L- STA. 952+45.00 +/-	-L- STA. 985+44.76 +/-	-L- STA. 1024+15.00 +/-
-L- STA. 1054+24.39 +/-	-L- STA. 1059+31.00 +/-	

STEP 3 - USING RSD 1101.03, CLOSE -Y36- (UNDERWOOD ROAD). DETOUR TRAFFIC ALONG ROUTE SHOWN ON TMP-55. CONSTRUCT -Y36- AS SHOWN ON TMP-46. CONSTRUCT TEMPORARY TIE TO INTERIM PATTERN ON NC 24 AND REOPEN -Y36- TO TRAFFIC IN 2L, 2W PATTERN AS SHOWN ON TMP-46.

INSTALL TEMPORARY MARKINGS IN FINAL PATTERN ON OUTSIDE LANES OF EB -L- AND DRUM OFF INSIDE LANE FOR THE TRAFFIC SHIFT INTO OUTSIDE EB LANE IN NEXT STEP.

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASING

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PHASING

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-3C

PHASE III CONTINUED

STEP 4 - INSTALL FINAL SIGNS AS DIRECTED BY THE ENGINEER AND APPROPRIATE FOR FIELD CONDITIONS (SEE SIGNING PLANS).

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED IN PHASE III STEP 5 WITHIN A SINGLE WORK PERIOD.

STEP 5 - WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, SHIFT THE NC 24 TRAFFIC IN THE FOLLOWING SEQUENCE:

A - PLACE FLAGGERS AT THE EXISTING/PROPOSED NC 24 INTERSECTIONS WITH THE FOLLOWING: -Y25- (DOWDY ROAD), -Y26-, -Y28- (OLD BRICK MILL ROAD), -Y29- (FAIRCLOTH ROAD) -Y30- (LUCAS ROAD), -Y31- (NC 242), -Y33A-, -Y34- (UNDERWOOD ROAD), -Y35- (MARION-AMOS ROAD), -Y36- (UNDERWOOD ROAD), -Y37- (MARION-AMOS ROAD), AND -Y38- (MCLEMORE ROAD).

B - USING LAW ENFORCEMENT, FLAGGERS AND PILOT VEHICLE DIRECT EB TRAFFIC TO OUTSIDE EB LANE OF -L- AND COMPLETE INSTALLATION OF DRUMS TO DRUM OFF THE INSIDE EB LANE.

C - WITH ALL TRAFFIC IN OUTSIDE EB AND WB LANES, COMPLETE ALL REMAINING TIE-IN WORK RELATED TO THE TRAFFIC SHIFT. PLACE REMAINING MARKINGS AND MARKERS TO COMPLETE TRAFFIC SHIFT INCLUDING INSTALLING TEMPORARY MARKING IN FINAL PATTERN AT ALL -Y- LINES ON SOUTH SIDE OF NC 24 (-L-) (SEE TYPICAL THIS SHEET). DRUM OFF INSIDE LANE OF WB -L-.

D - USE DRUMS TO CHANNELIZE ACCESS TO U-TURNS AND OPEN TO TRAFFIC.

E - CLOSE MEDIANS AT -Y- LINES AND INSTALL SIGNING AS SHOWN FOR RIGHT ONLY MOVEMENTS FROM -Y- LINES (AS SHOWN ON TYPICAL THIS SHEET). DO NOT CLOSE MEDIAN AND CONSTRUCT LEFTOVER CHANNELIZATION AT -Y- LINE INTERSECTIONS UNTIL ADJACENT U-TURN MEDIAN OPENINGS BOTH EAST AND WEST HAVE BEEN OPENED TO TRAFFIC.

F - ENSURE ALL TRAFFIC CONTROL DEVICES AND SIGNING ON NC 24 ARE CORRECT AND OPEN LANES.

STEP 6 - COMPLETE ALL REMAINING CONSTRUCTION, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, INCLUDING ALL MEDIAN ISLANDS IN THE FOLLOWING SEQUENCE:

A - AWAY FROM TRAFFIC, COMPLETE CONSTRUCTION OF ALL MEDIAN WORK, INCLUDING LEFTOVER CHANNELIZATION AT -Y- LINE INTERSECTIONS.

B - USING RSD 1101.02, SHEET 1, COMPLETE RIGHT TURN ISLANDS AT ALL -Y- LINES. INSTALL CONES AROUND ISLAND AS SHOWN ON DETAIL A (THIS SHEET) WHILE CONCRETE CURES. INSTALL TEMPORARY MARKINGS (PAINT) IN FINAL PATTERN AT ALL -Y- LINES ON NORTH SIDE OF NC 24 -L- (SEE TYPICAL THIS SHEET).

STEP 7 - RE-LAP EXISTING GUARDRAIL FOR CHANGE IN DIRECTION OF TRAFFIC ADJACENT TO GUARDRAIL.

STEP 8 - PLACE FINAL LAYER OF SURFACE COURSE ON INSIDE LANES. INSTALL TEMPORARY MARKING IN FINAL PATTERN ON INSIDE LANES.

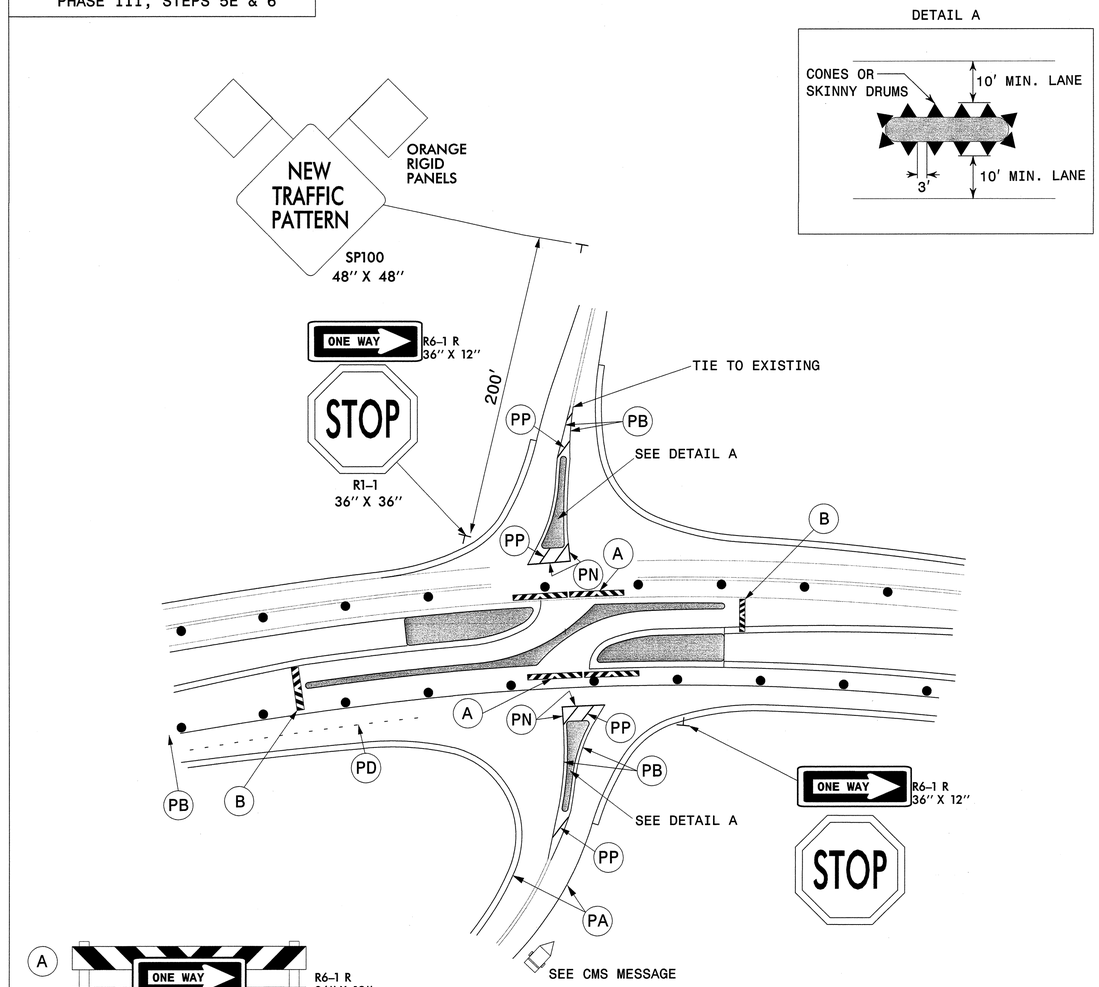
STEP 9 - USING LAW ENFORCEMENT, FLAGGERS AND PILOT VEHICLE DIRECT EB AND WB TRAFFIC TO INSIDE LANES.

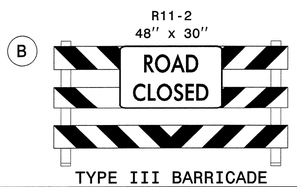
STEP 10 - PLACE FINAL LAYER OF SURFACE COURSE ON OUTSIDE LANES. INSTALL TEMPORARY MARKINGS IN FINAL PATTERN ON OUTSIDE LANES.

STEP 11 - USING RSD 1101.02, USE FLAGGERS TO PLACE FINAL PAVEMENT MARKINGS AND MARKERS.

STEP 12 - OPEN ALL LANES TO THE PROPOSED PATTERN.

TYPICAL
PHASE III, STEPS 5E & 6





MESSAGES FOR CMS ON -Y- LINES TO BE PLACED 500' +/- PRIOR TO NEW STOP LOCATION

NEW TRAFFIC PATTERN	BEGIN MM/DD

1 WEEK PRIOR TO SHIFT

NEW STOP LOCATION 500 FT	NEW TRAFFIC PATTERN

CMS TO BE PLACED 500' +/- IN ADVANCE OF THE NEW STOP SIGN LOCATION FOR 1 WEEK AFTER RE-OPENING OR PER ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASING

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

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PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-4

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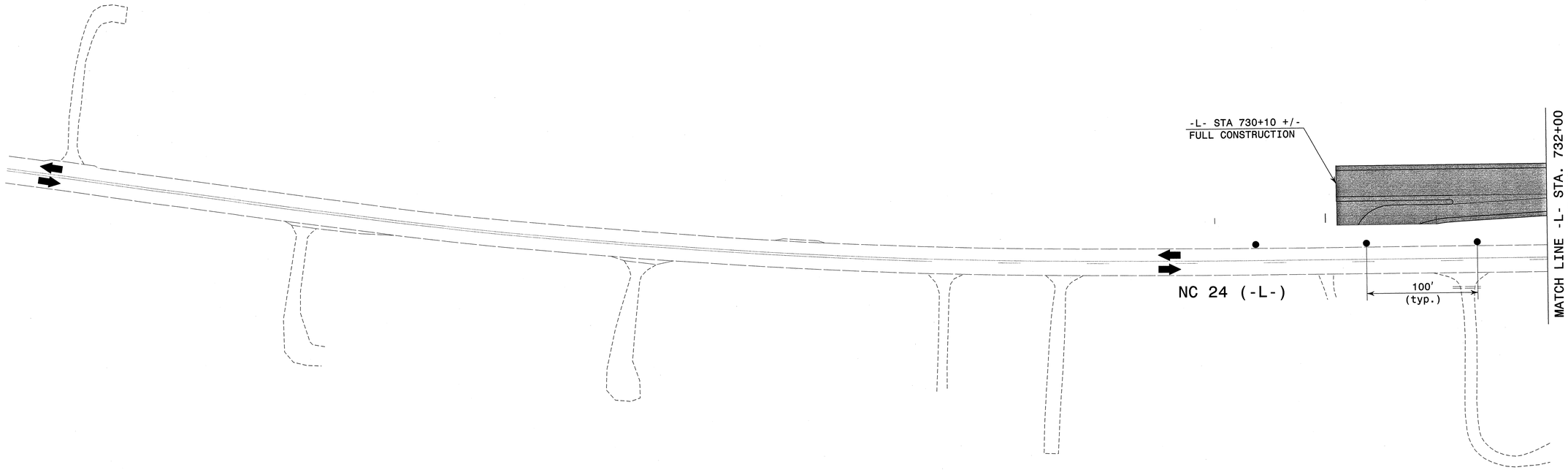

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE I DETAIL
NC 24 –L–

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

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R-2303C	TMP-5

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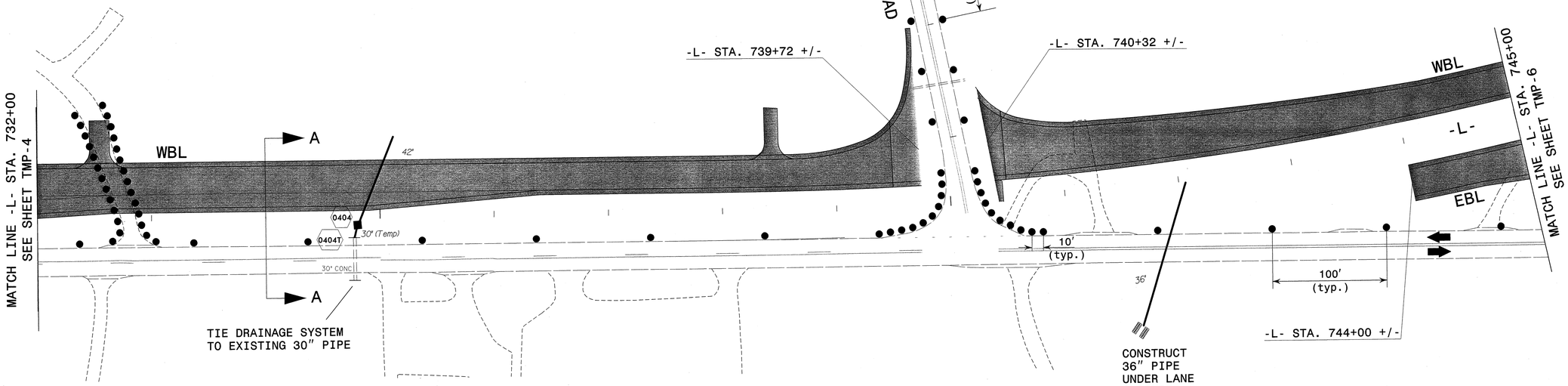

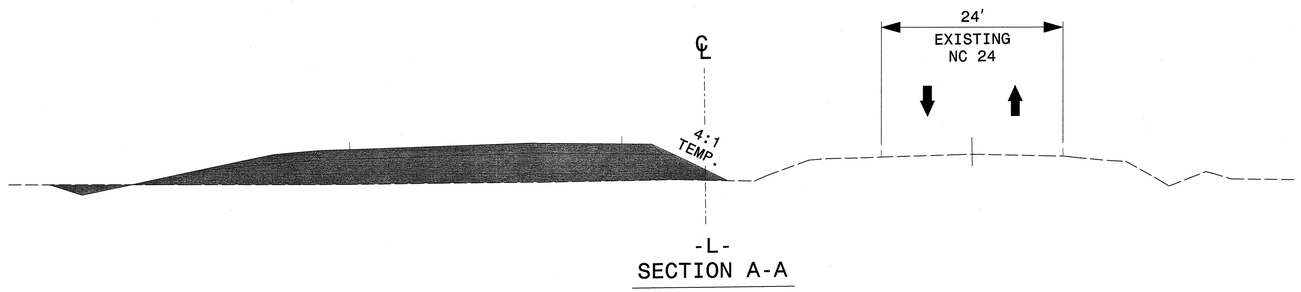

SECTION A-A

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE I DETAIL
NC 24 –L– &
DOWDY RD –Y25–

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

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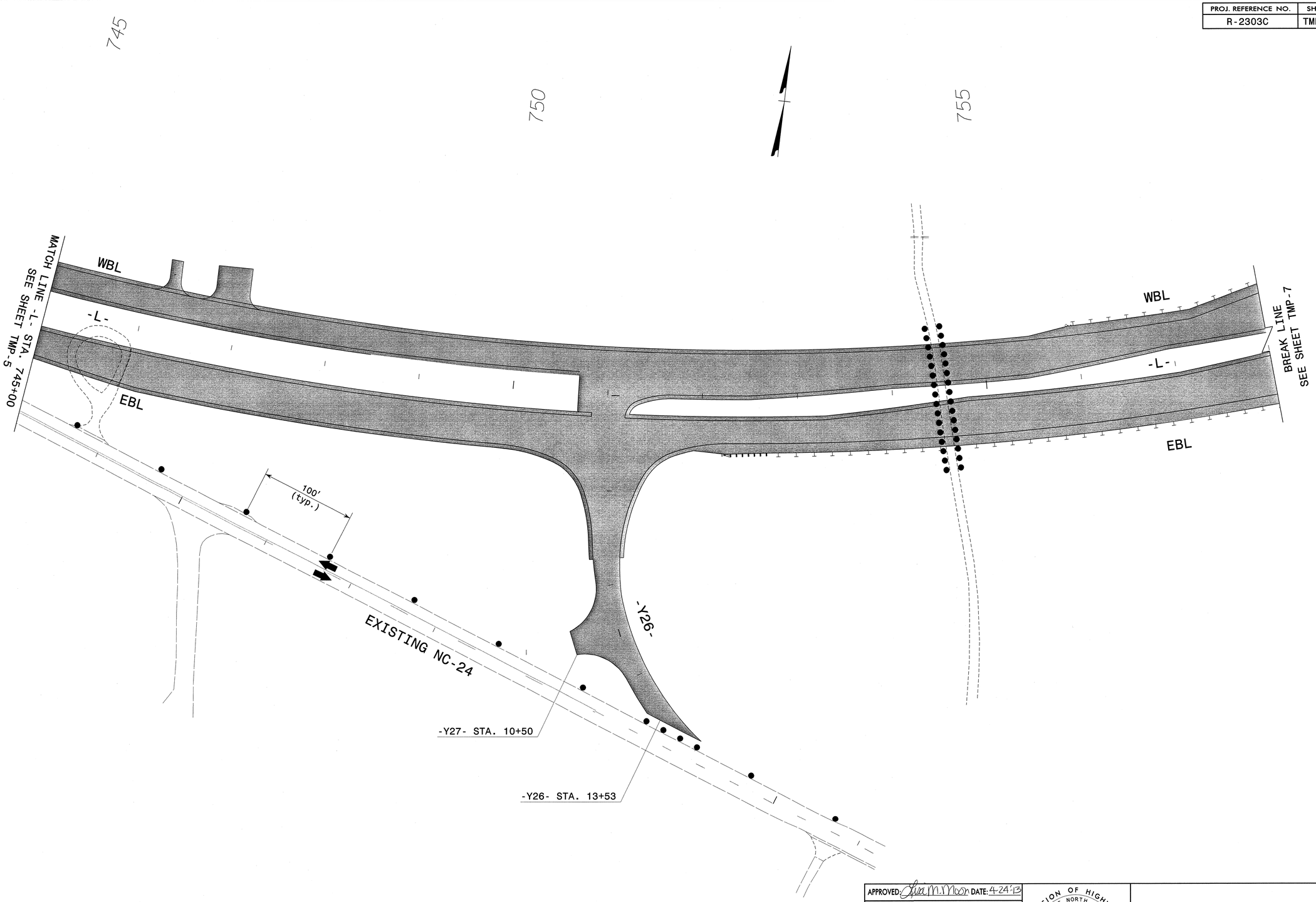
R-2303C	TMP-6



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APPROVED: Lisa M. Moon DATE: 4-24-13

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WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL
EXISTING NC 24,
-L- & -Y26-

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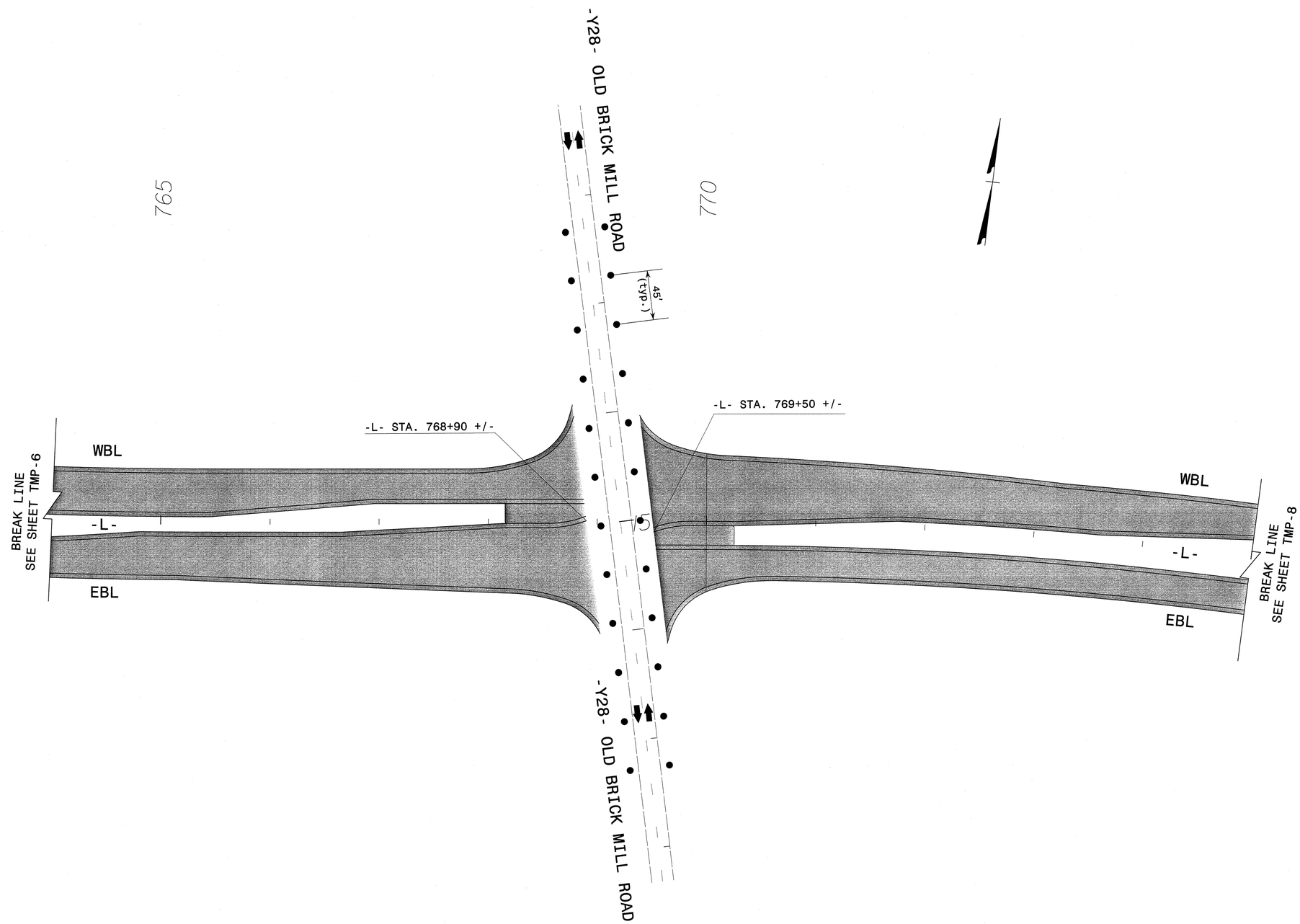
R-2303C	TMP-7



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PHASE I DETAIL
–L– &
OLD BRICK MILL RD –Y28–

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

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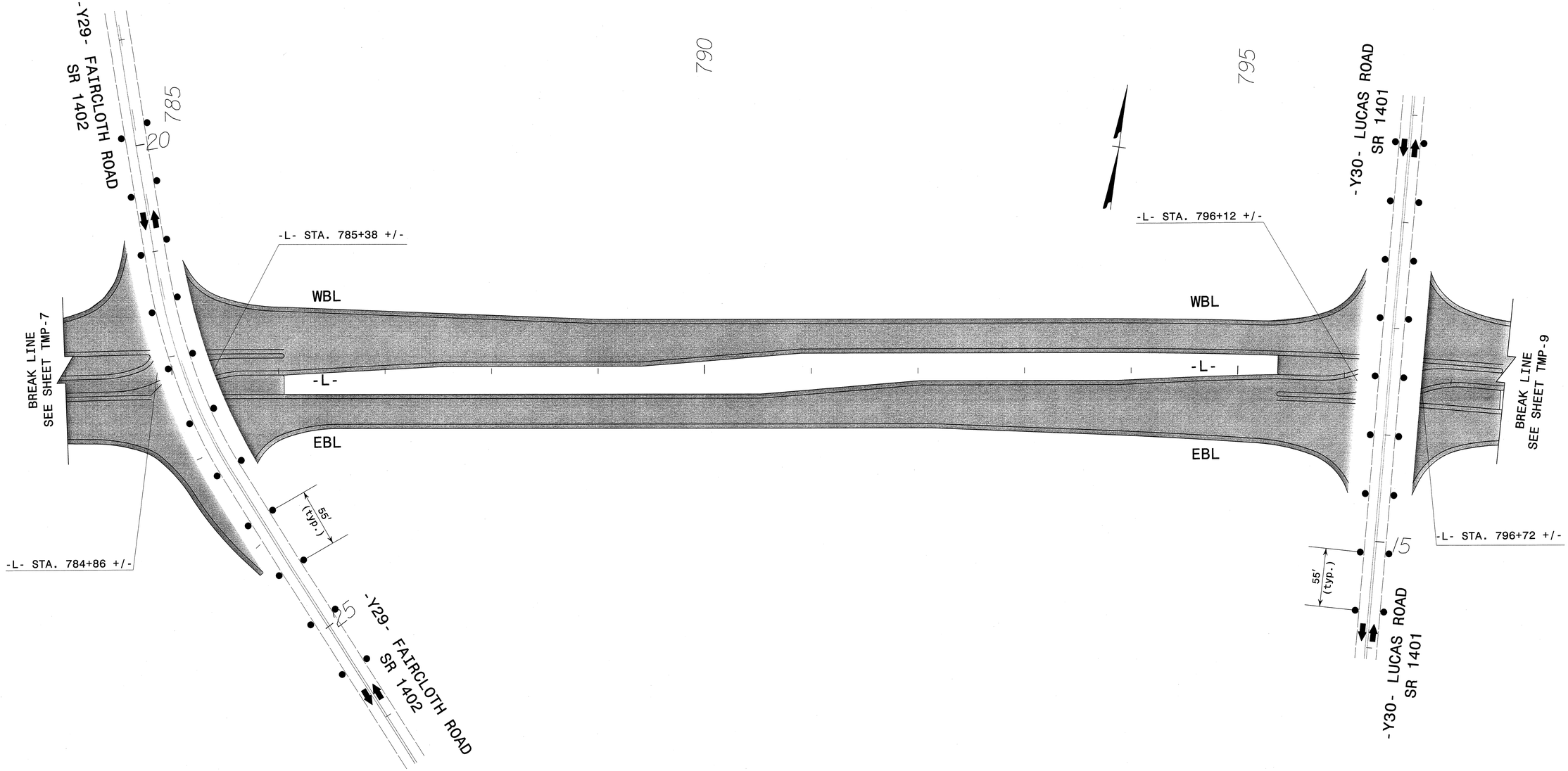
R-2303C	TMP-8



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APPROVED: Lisa M. Moon DATE: 4-24-13

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DIVISION OF HIGHWAYS
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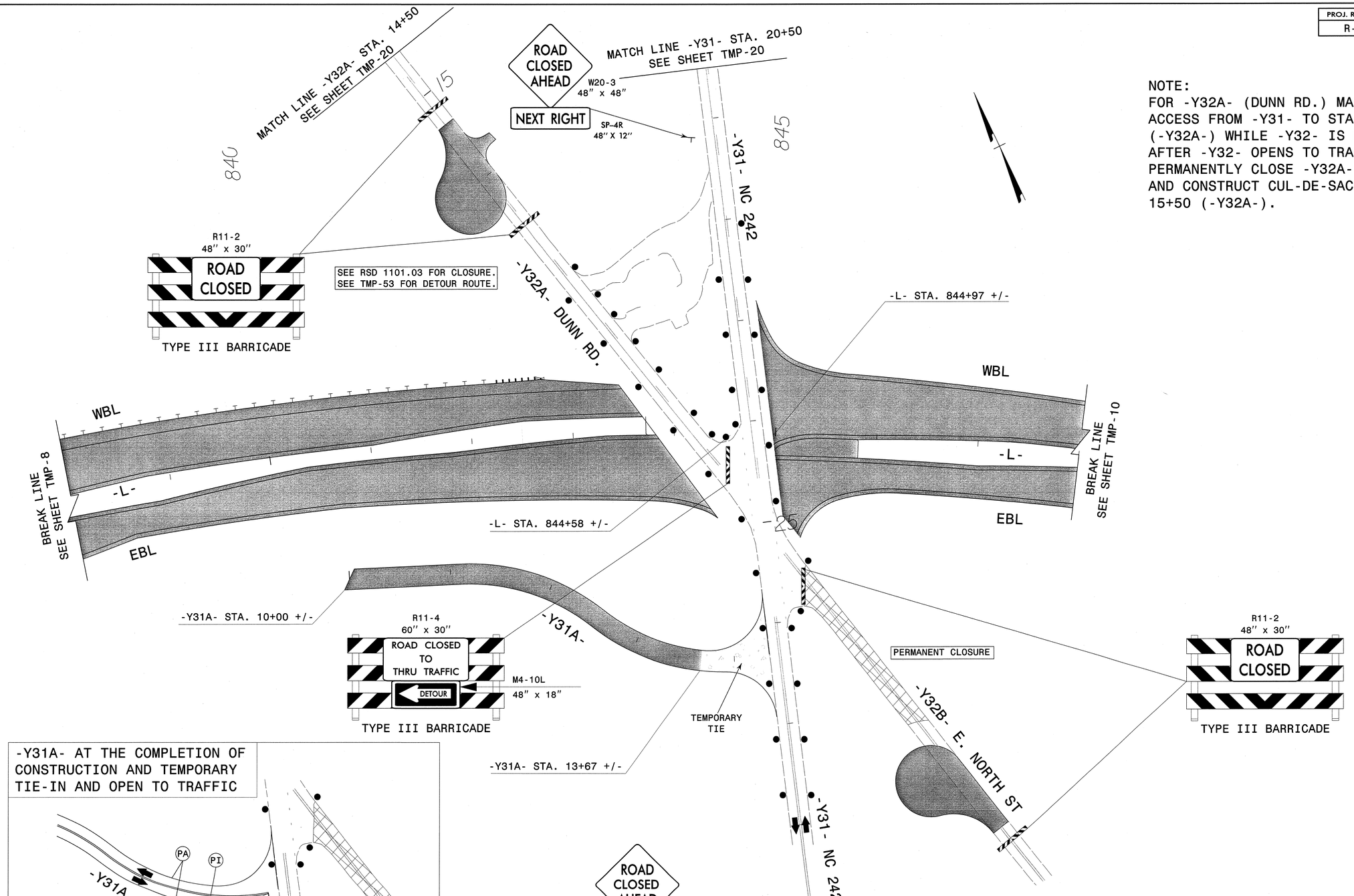
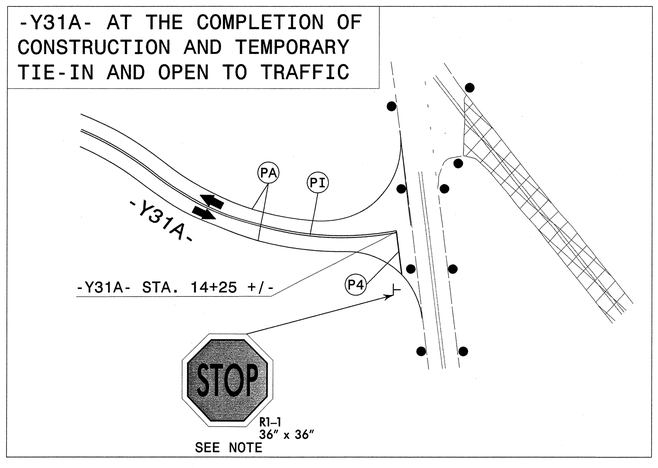
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL
–L–, FAIRCLOTH RD –Y29–
& LUCAS RD –Y30–

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-9

NOTE:
FOR -Y32A- (DUNN RD.) MAINTAIN ACCESS FROM -Y31- TO STA. 12+50 (-Y32A-) WHILE -Y32- IS BEING BUILT. AFTER -Y32- OPENS TO TRAFFIC, PERMANENTLY CLOSE -Y32A- AT -Y31- AND CONSTRUCT CUL-DE-SAC AT STA. 15+50 (-Y32A-).





CLOSED PERMANENTLY, USE RSD 1101.03, SHEET 1 OF 9 FOR APPROACH SIGNAGE.

NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

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1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

PHASE I DETAIL
–L–, NC 242 –Y31–, –Y31A–, DUNN RD –Y32A– & E. NORTH ST –Y32B–

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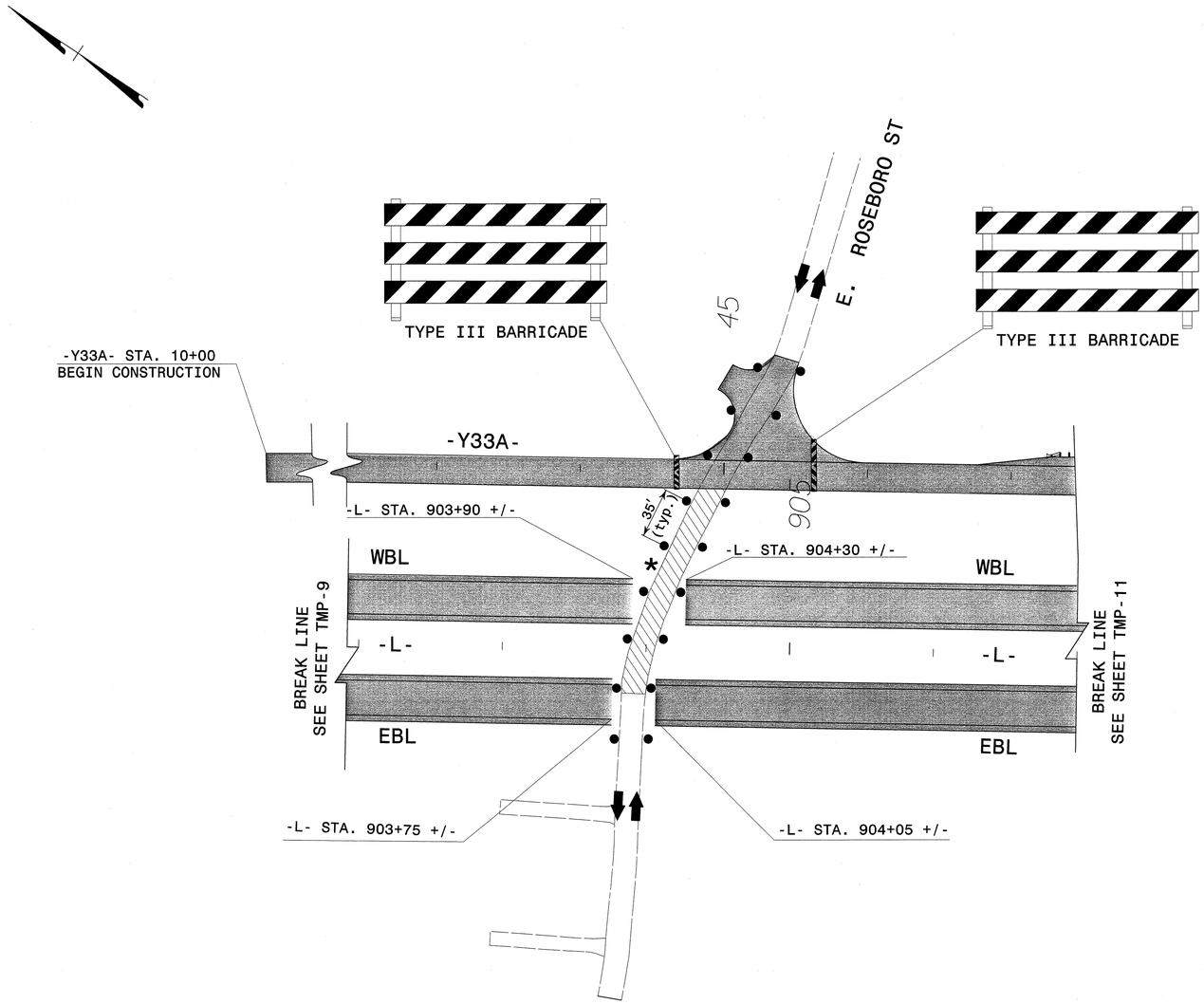
R-2303C	TMP-10



* ▨ WEDGING (TAPER DOWN TO MEET EXISTING AT A RATE OF 100:1)

APPROVED: Lisa M. Moon DATE: 4-24-13

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

PHASE I DETAIL
–L–, –Y33A– & E. ROSEBORO ST –Y33B–

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
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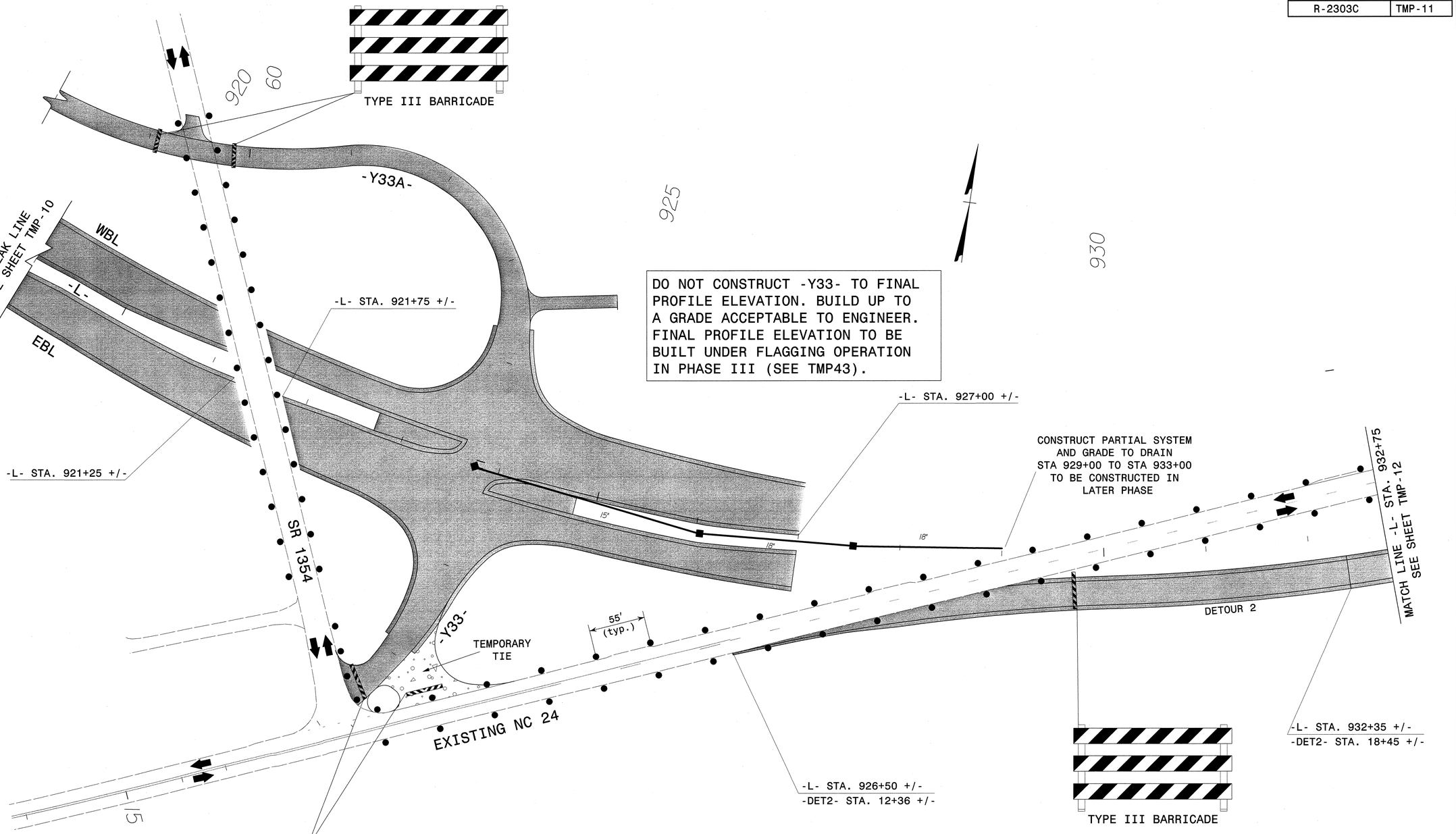

SEE ROADWAY PLANS FOR DETOUR.

SEE ROADWAY PLANS FOR TEMPORARY TIE.

APPROVED: Lisa M. Moon DATE: 4-24-13

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

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

PHASE I DETAIL
–L–, EXISTING NC 24, DETOUR 2, SR 1354, –Y33– & –Y33A–

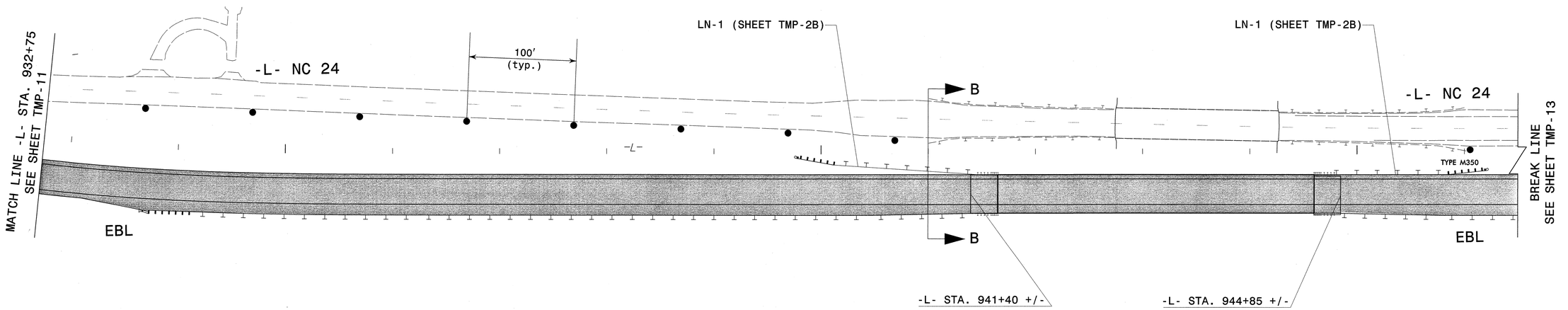
24-APR-2013 17:51
D:\Transportation\Traffic\Curr\0003201O_R2303C TCP\TMP Plans\r2303c_TC_TMP_ll.dgn
13833 AT_RAL2UAI480FHW

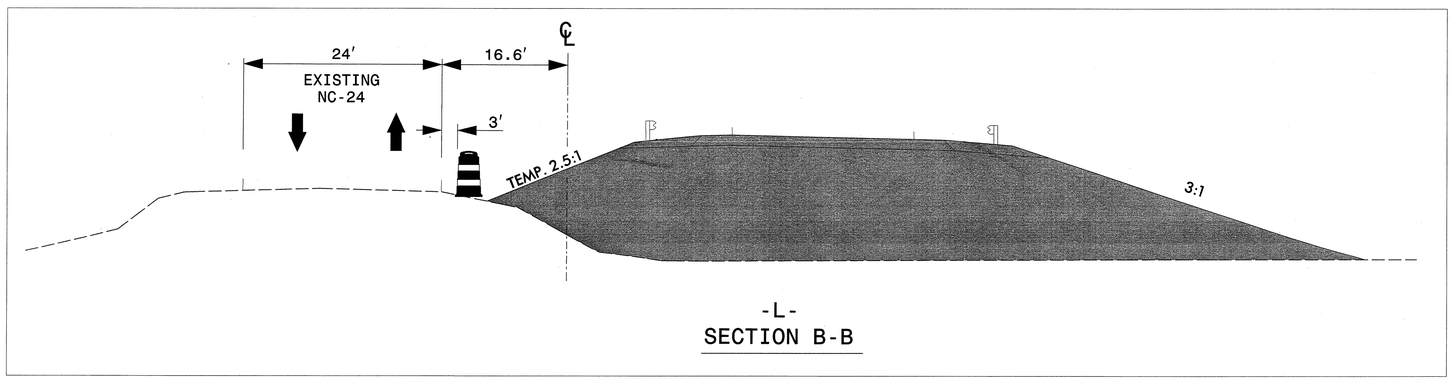
PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-12

935

940

945





-L-
SECTION B-B

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE I DETAIL
-L- NC 24 &
BRIDGE

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 17:51
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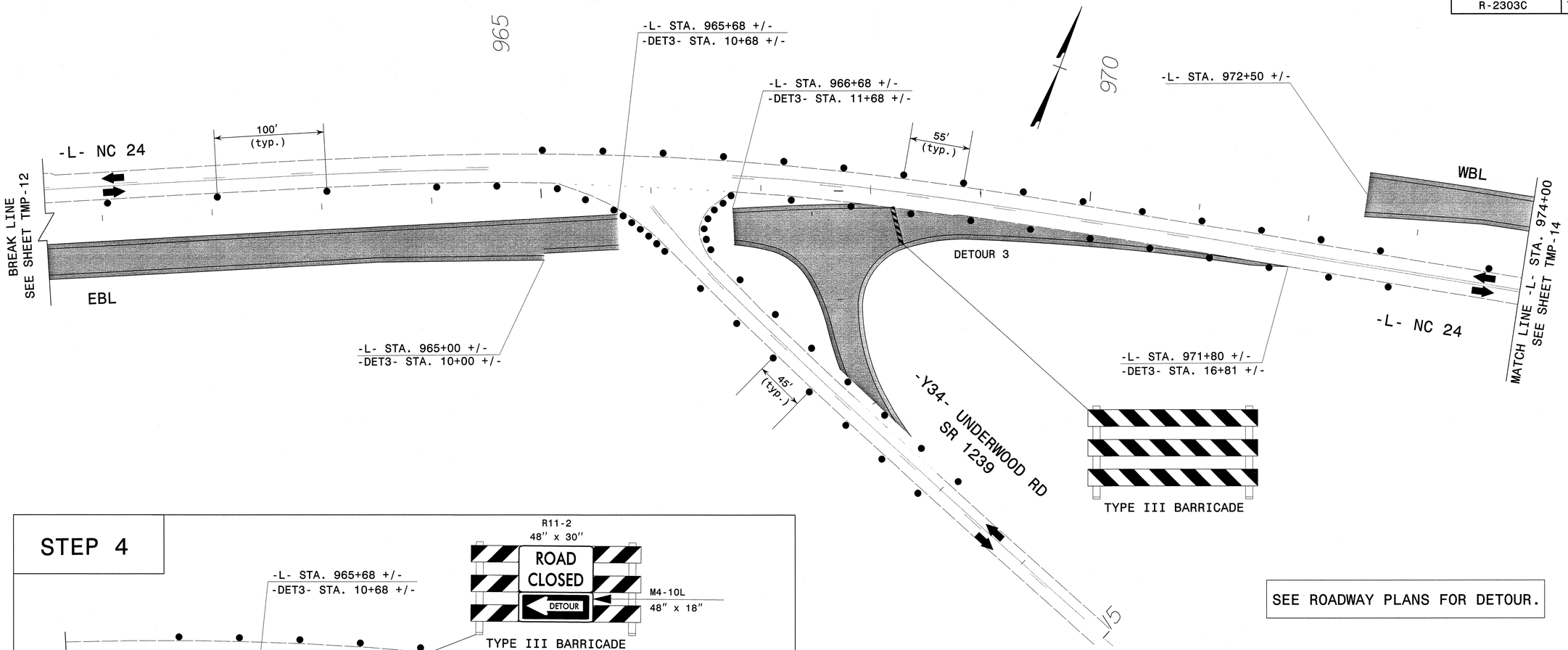
13833 A1 RALEIGH480FHW

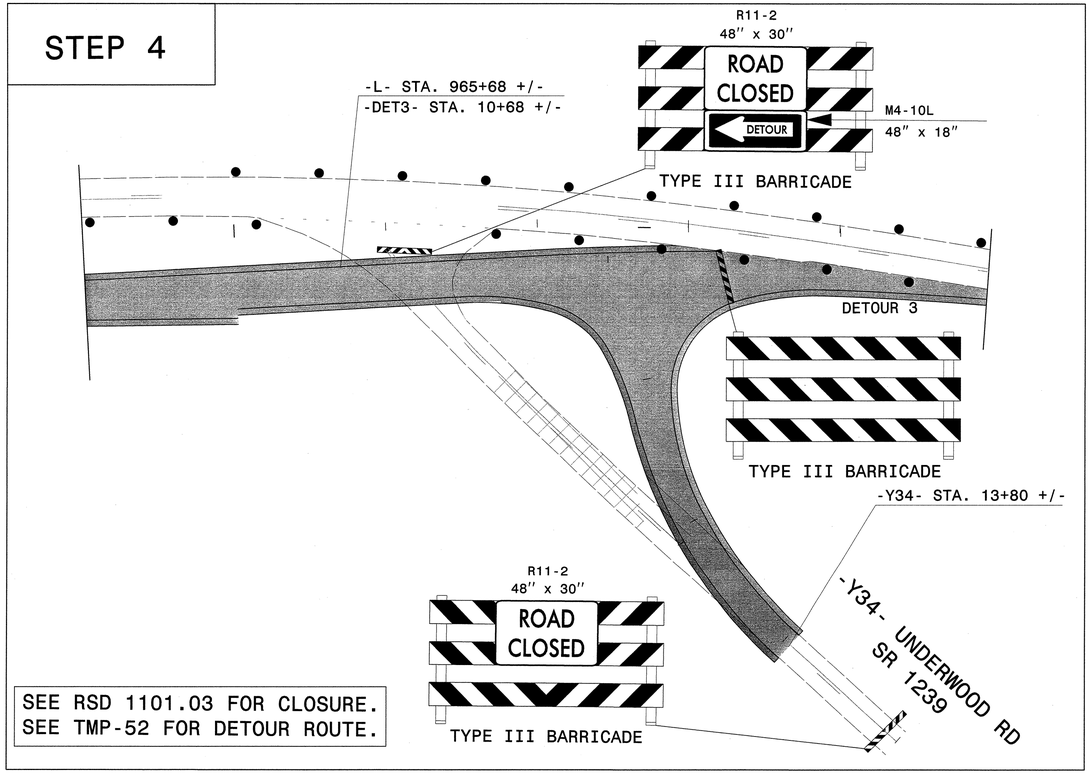
PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP- 13



SEE ROADWAY PLANS FOR DETOUR.

NOTE: CONSTRUCT -Y34- AT TEMPORARY GRADE. SEE ROADWAY PLANS.

STEP 4



SEE RSD 1101.03 FOR CLOSURE.
SEE TMP-52 FOR DETOUR ROUTE.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: Lisa M. Noon DATE: 4-24-13

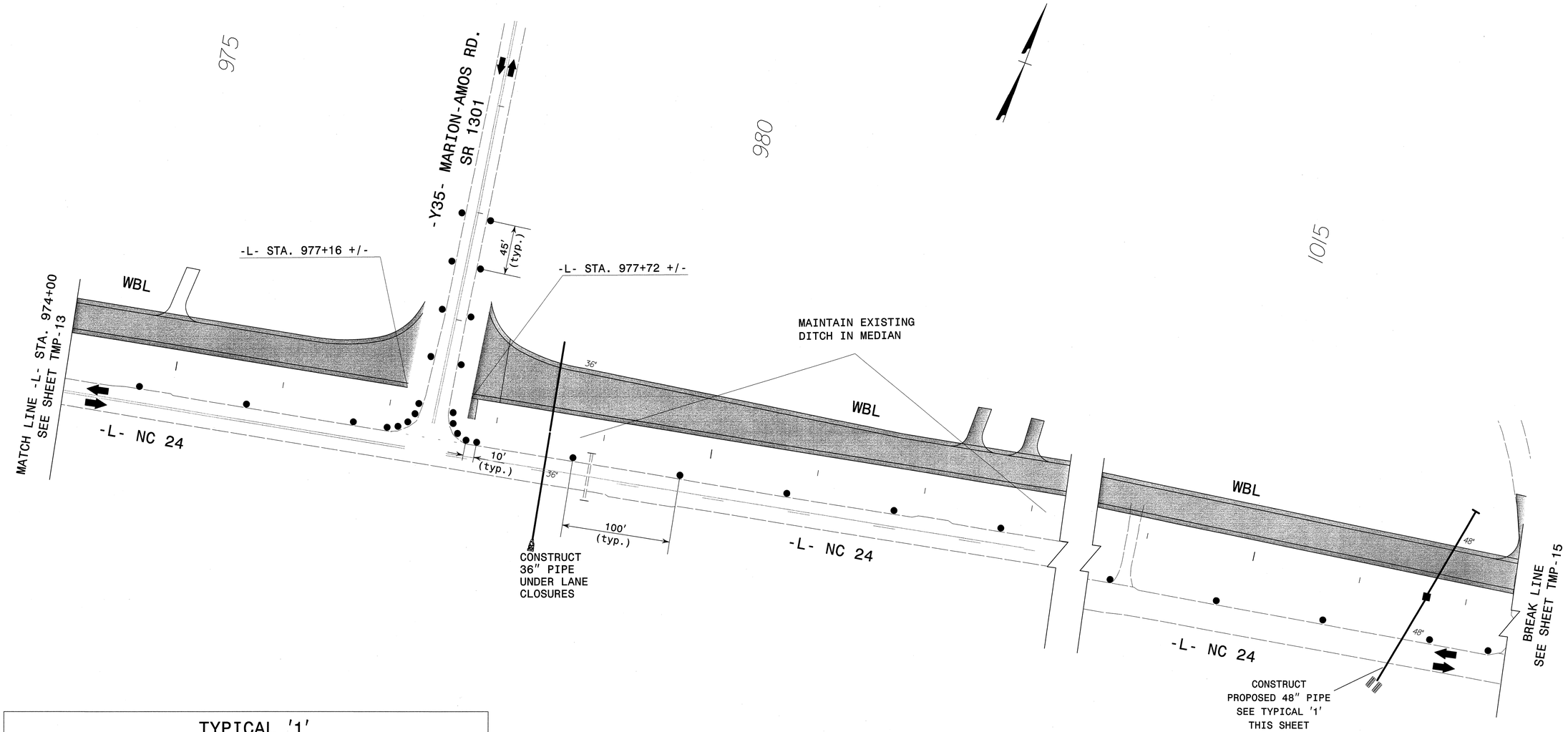
NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. NOON

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

PHASE I DETAIL
–L– NC 24, DETOUR 3, UNDERWOOD RD –Y34– (OPEN), & UNDERWOOD RD –Y34– (CLOSED)

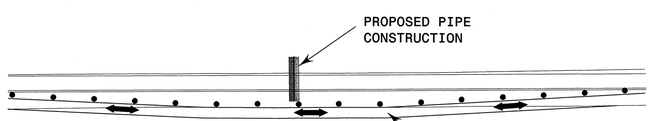
24-APR-2013 17:52
Q:\Transportation\Traffic\Curr\U0003200_R2303C TCP\TMP Plans\r2303c_TC_TMP_13.dgn
3833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-14



TYPICAL '1'

ON-SITE DETOUR
TO BE USED DURING
PIPE PLACEMENT



USE RSD 1101.02, SHEETS 1 OF 13
AND 2 OF 13, TO PUT TRAFFIC IN
A ONE-LANE PATTERN DURING
FLAGGING OPERATIONS. RETURN THE
TRAFFIC TO EXISTING PATTERN AT THE
END OF THE WORK PERIOD. REMOVE ALL
LOOSE GRAVEL FROM THE TRAVEL WAY.

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE I DETAIL
-L- NC 24 &
MARION-AMOS RD -Y35-

24-APR-2013 17:52
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13833 AT RALZUAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-15

1030

1035

WBL

BREAK LINE
SEE SHEET TMP-14

-L-

CAT-1

WBL

-L-

BREAK LINE
SEE SHEET TMP-16

CAT-1

EBL

100'
(typ.)

-L- STA. 1031+80 +/-

EXISTING NC 24

-L- STA. 1033+50 +/-

-Y36- UNDERWOOD RD
SR 1239

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE I DETAIL
–L–, EXISTING NC 24 & UNDERWOOD RD –Y36–

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 17:52
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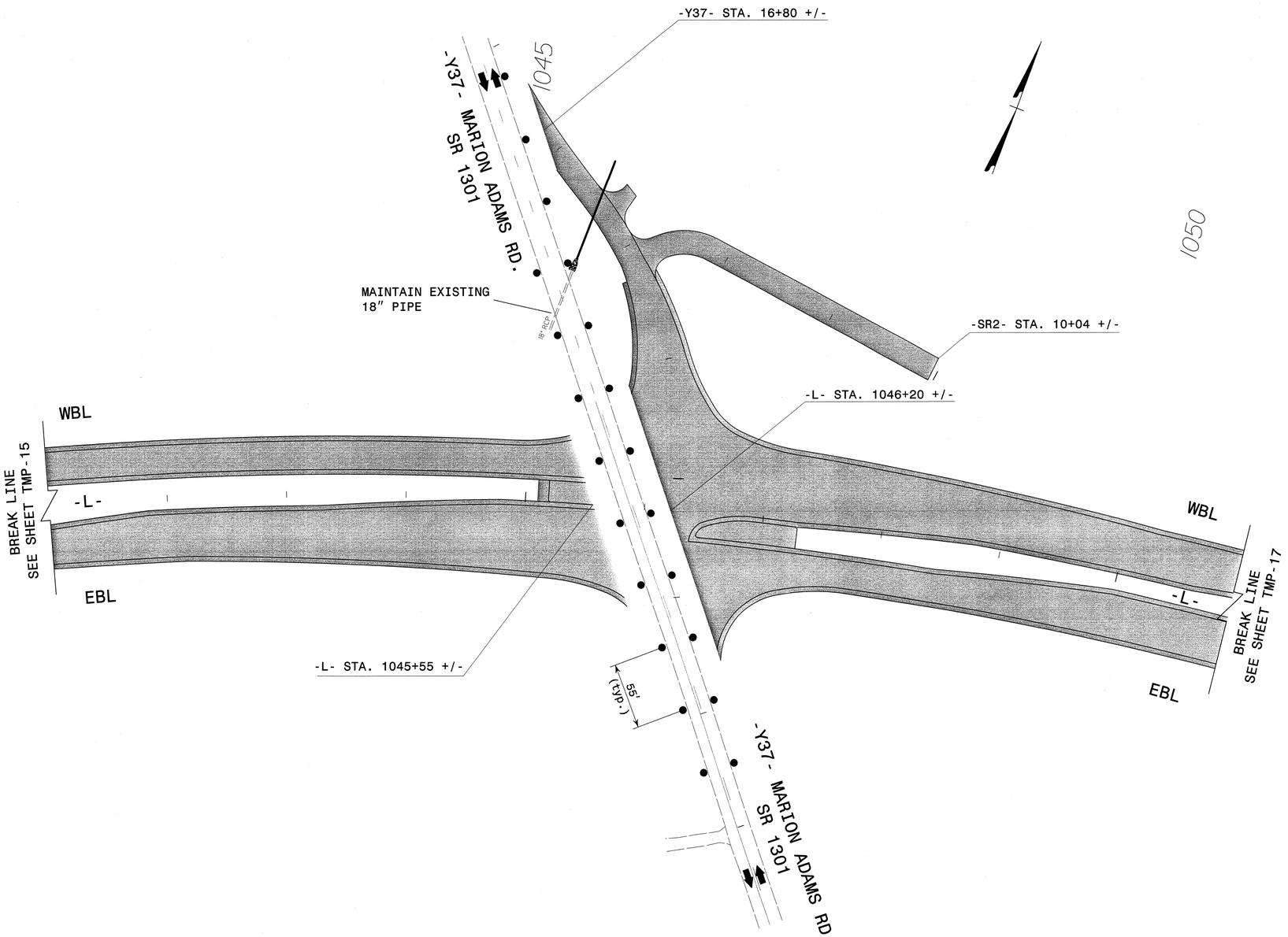
13833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-16



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE I DETAIL
–L– &
MARION ADAMS RD –Y37–

24-APR-2013 17:52
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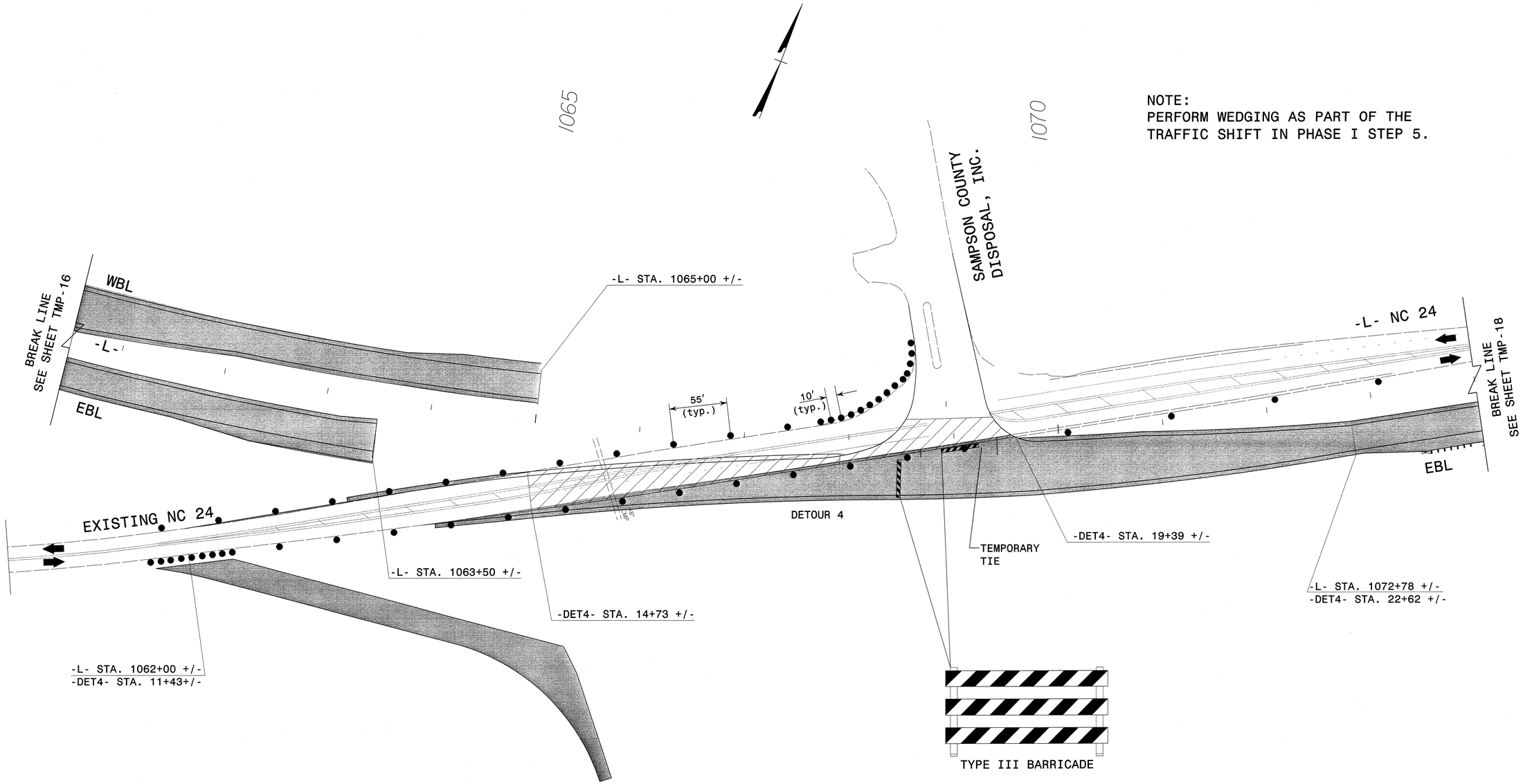
3833 AT RAL2UA480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-17



NOTE:
PERFORM WEDGING AS PART OF THE TRAFFIC SHIFT IN PHASE I STEP 5.

SEE ROADWAY PLANS FOR DETOUR.

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE I DETAIL –L–, EXISTING NC 24 & DETOUR 4

24-APR-2013 17:52
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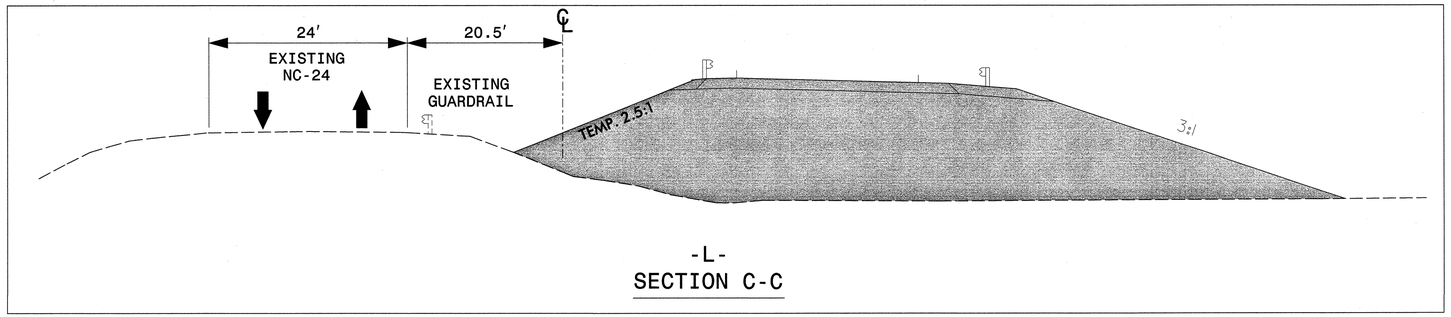
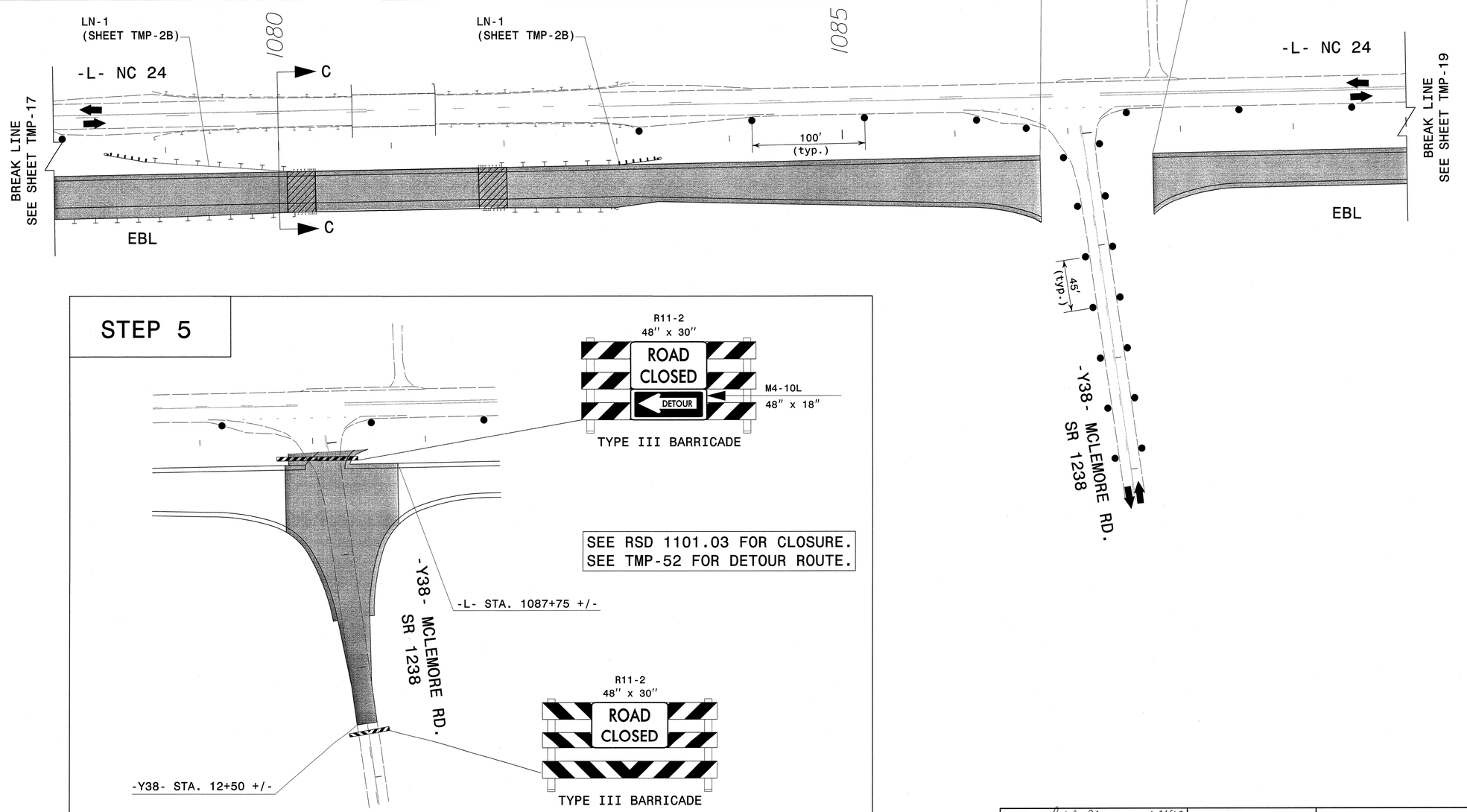
13633 AT RAL2UA480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-18



-L-
SECTION C-C



STEP 5

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: Lisa M. Moon DATE: 4/24/13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE I DETAIL
-L- NC 24, BRIDGE,
MCLEMORE RD -Y38- (OPEN), &
MCLEMORE RD -Y38- (CLOSED)

24-APR-2013 17:52
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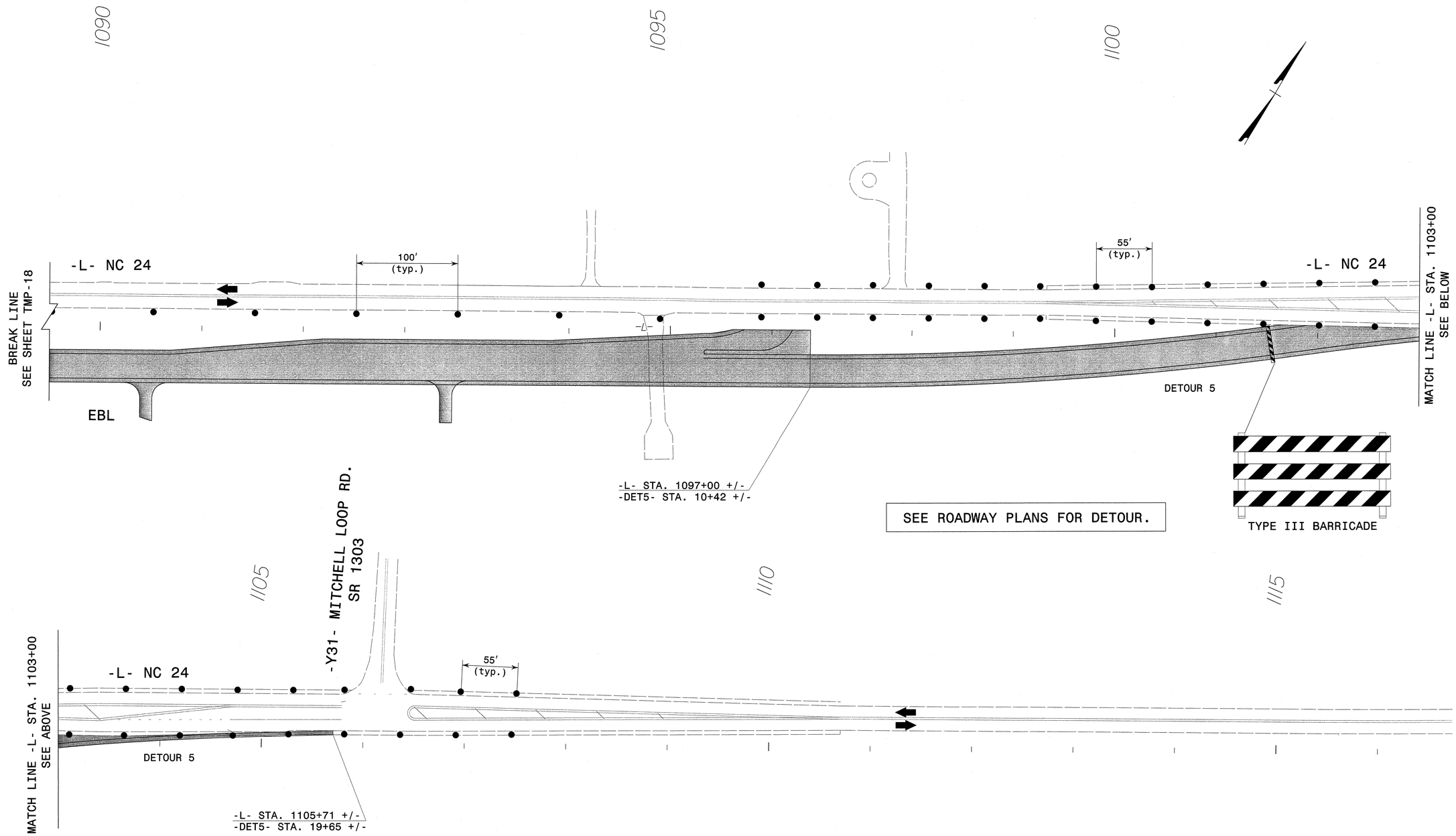
13833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-19



APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE I DETAIL
-L- NC 24 & DETOUR 5

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 17:52
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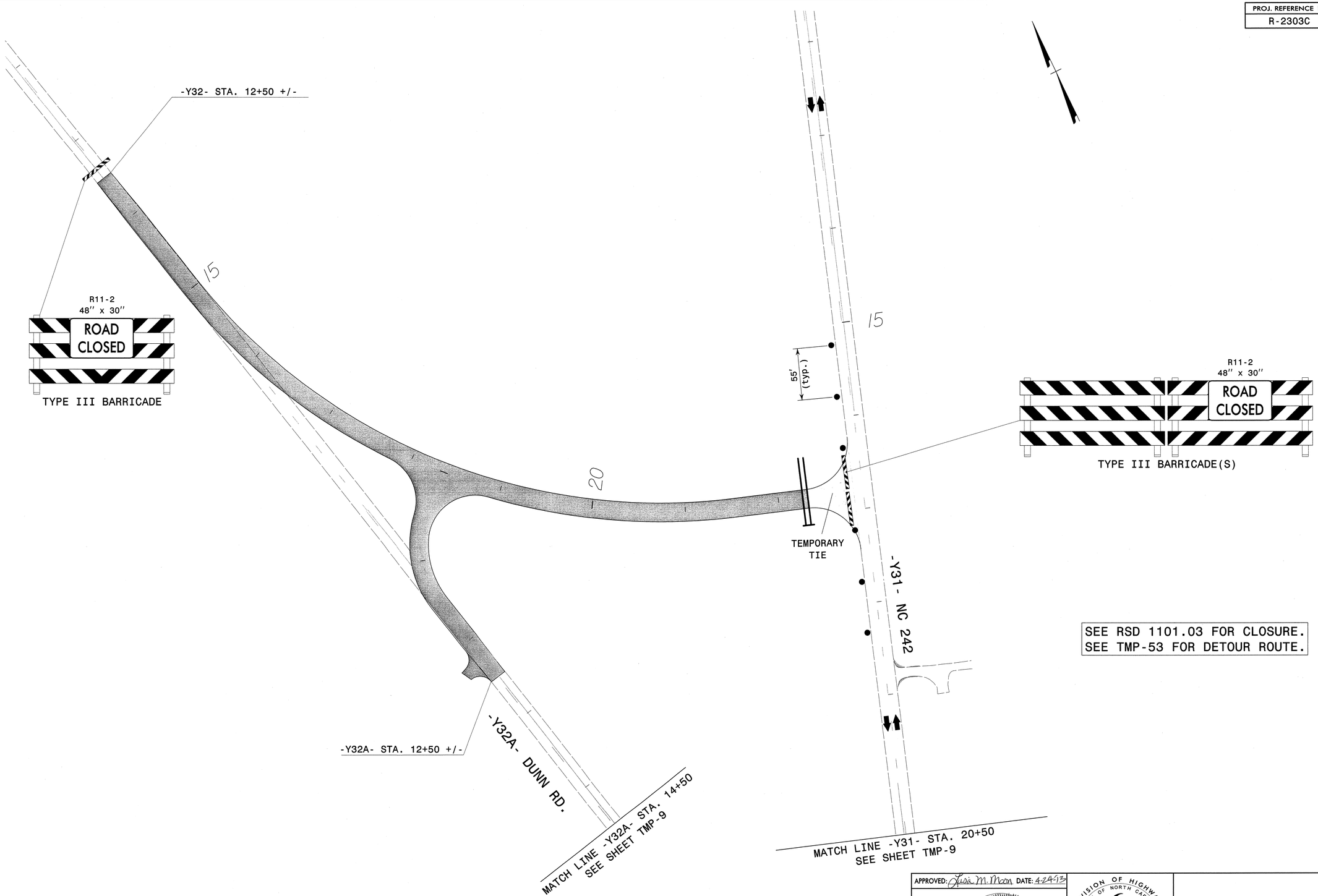
13833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-20



APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE I DETAIL
NC 242 –Y31–, –Y32– & DUNN RD –Y32A–

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 17:52
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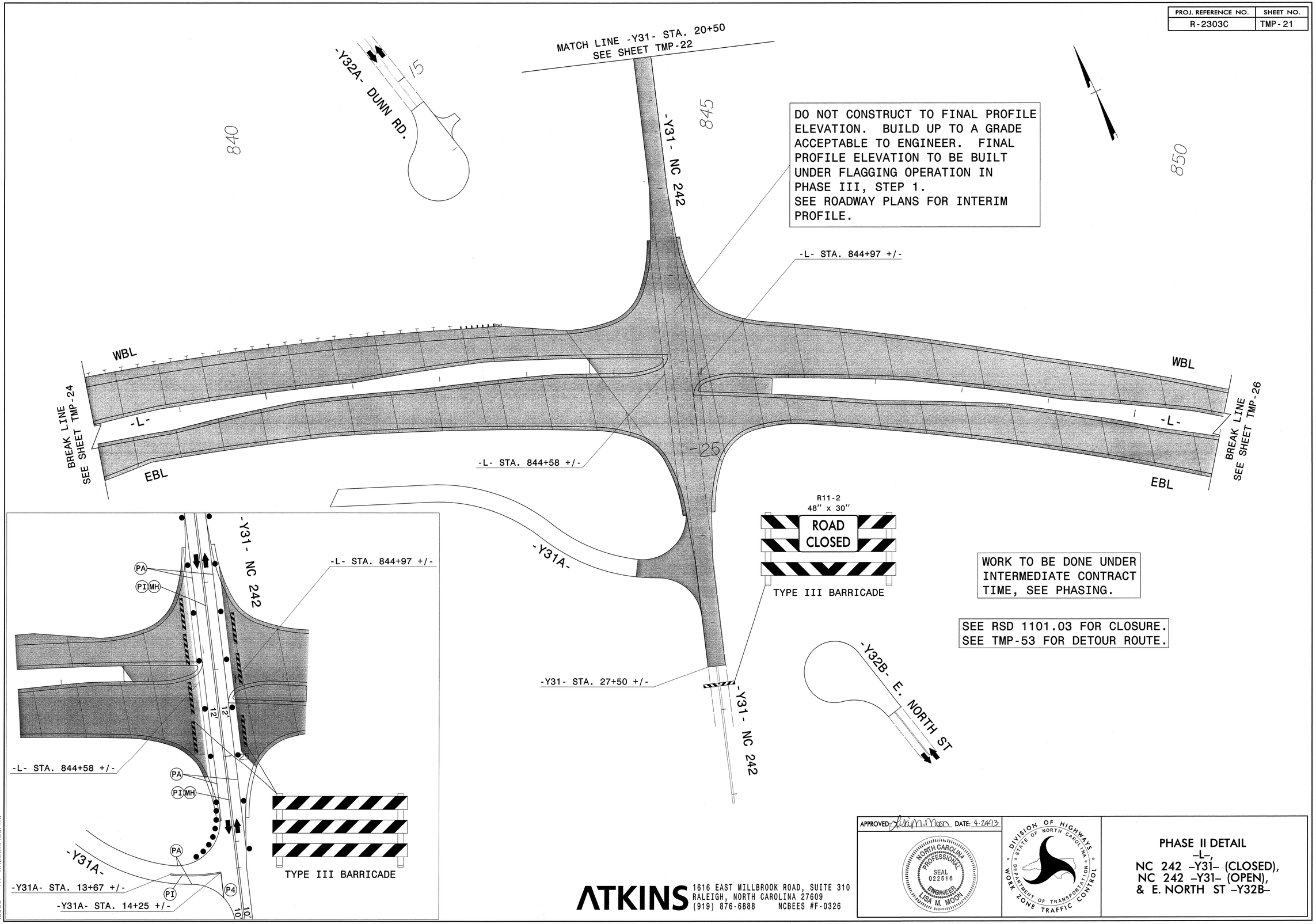
13833 AT RAL2LJAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-21



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE II DETAIL
-L-,
NC 242 -Y31- (CLOSED),
NC 242 -Y31- (OPEN),
& E. NORTH ST -Y32B-

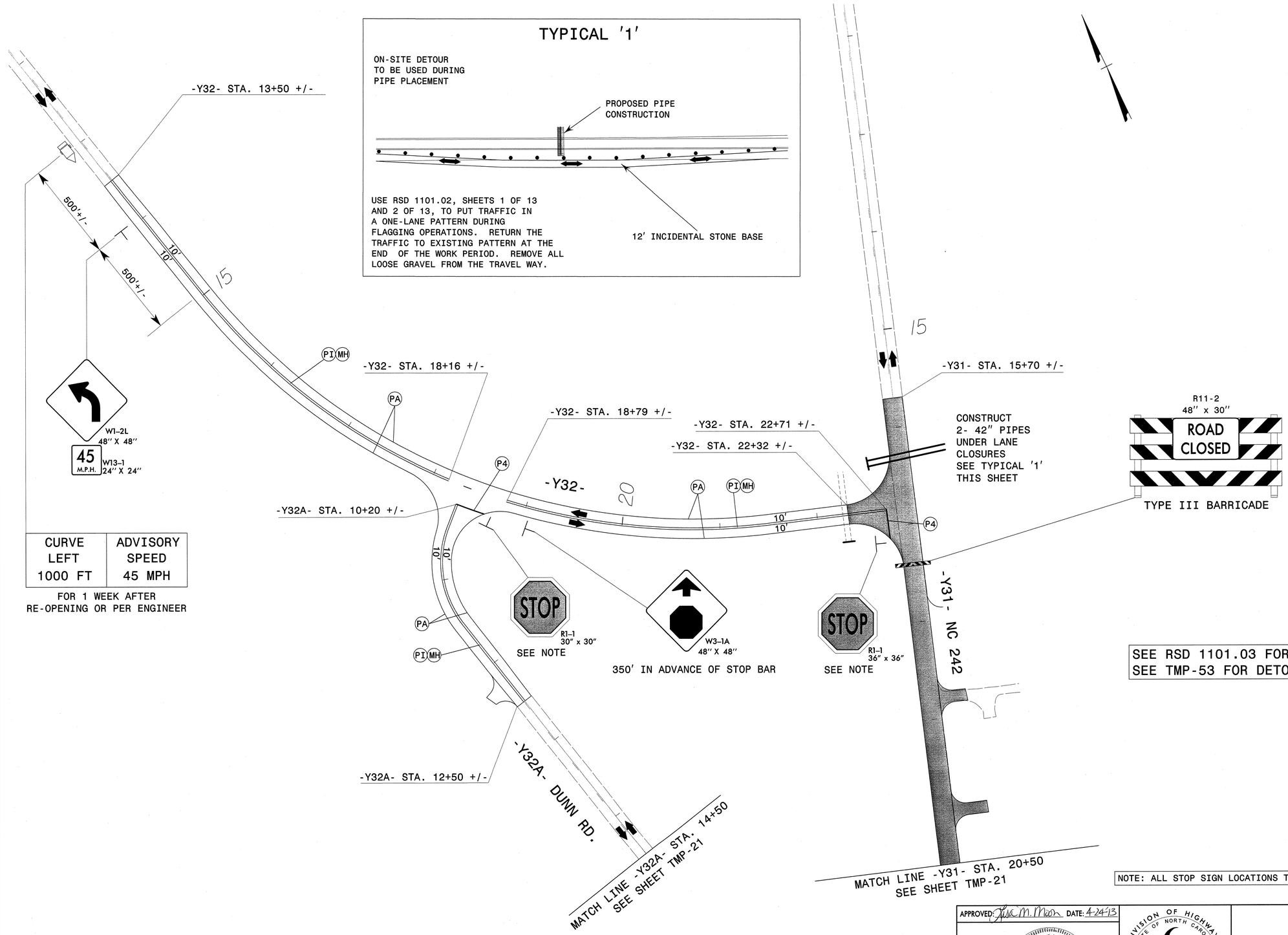
24-APR-2013 17:52
O:\Transportation\Traffic\Curr\I00032010_R2303C TCP\TMP Plans\r2303c_TC_TMP_21.dgn
13833 AT RAL2UA1480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-22

TYPICAL '1'

ON-SITE DETOUR
TO BE USED DURING
PIPE PLACEMENT

USE RSD 1101.02, SHEETS 1 OF 13 AND 2 OF 13, TO PUT TRAFFIC IN A ONE-LANE PATTERN DURING FLAGGING OPERATIONS. RETURN THE TRAFFIC TO EXISTING PATTERN AT THE END OF THE WORK PERIOD. REMOVE ALL LOOSE GRAVEL FROM THE TRAVEL WAY.



CURVE LEFT	ADVISORY SPEED
1000 FT	45 MPH

FOR 1 WEEK AFTER
RE-OPENING OR PER ENGINEER

SEE RSD 1101.03 FOR CLOSURE.
SEE TMP-53 FOR DETOUR ROUTE.

NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE II DETAIL
NC 242 –Y31–, –Y32– & DUNN RD –Y32A–

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

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13833 AT RAL2UAI48OFHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-23

730

TYPE III BARRICADE

DET 1 STA 13+60 +/-

55' (typ.)

DETOUR 1

-L- STA 730+10 +/-
DET 1 STA 24+95 +/-

WBL

BREAK LINE
SEE SHEET TMP-24

100' (typ.)

-L- NC 24

SEE ROADWAY PLANS FOR DETOUR.

ONGOING CONSTRUCTION

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE II DETAIL
-L- NC 24 &
DETOUR 1

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
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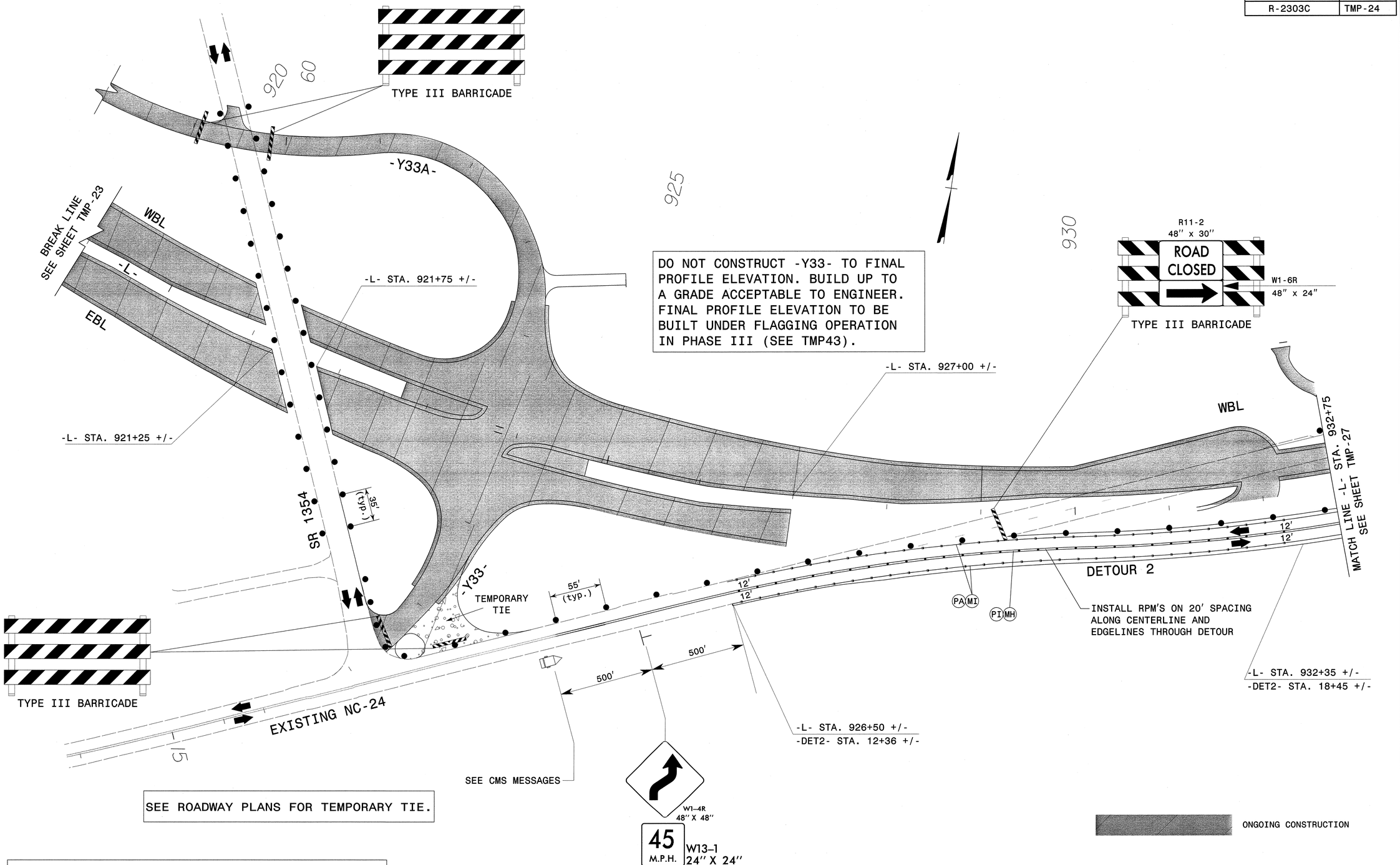
3833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-24



SEE ROADWAY PLANS FOR TEMPORARY TIE.

2 WEEKS PRIOR TO TRAFFIC SHIFT		FOLLOWING THE TRAFFIC SHIFT BEGINNING MORNING OF SHIFT	
NEW TRAFFIC PATTERN	BEGIN MM/DD	TRAFFIC SHIFT 1000 FT	ADVISORY SPEED 45 MPH

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

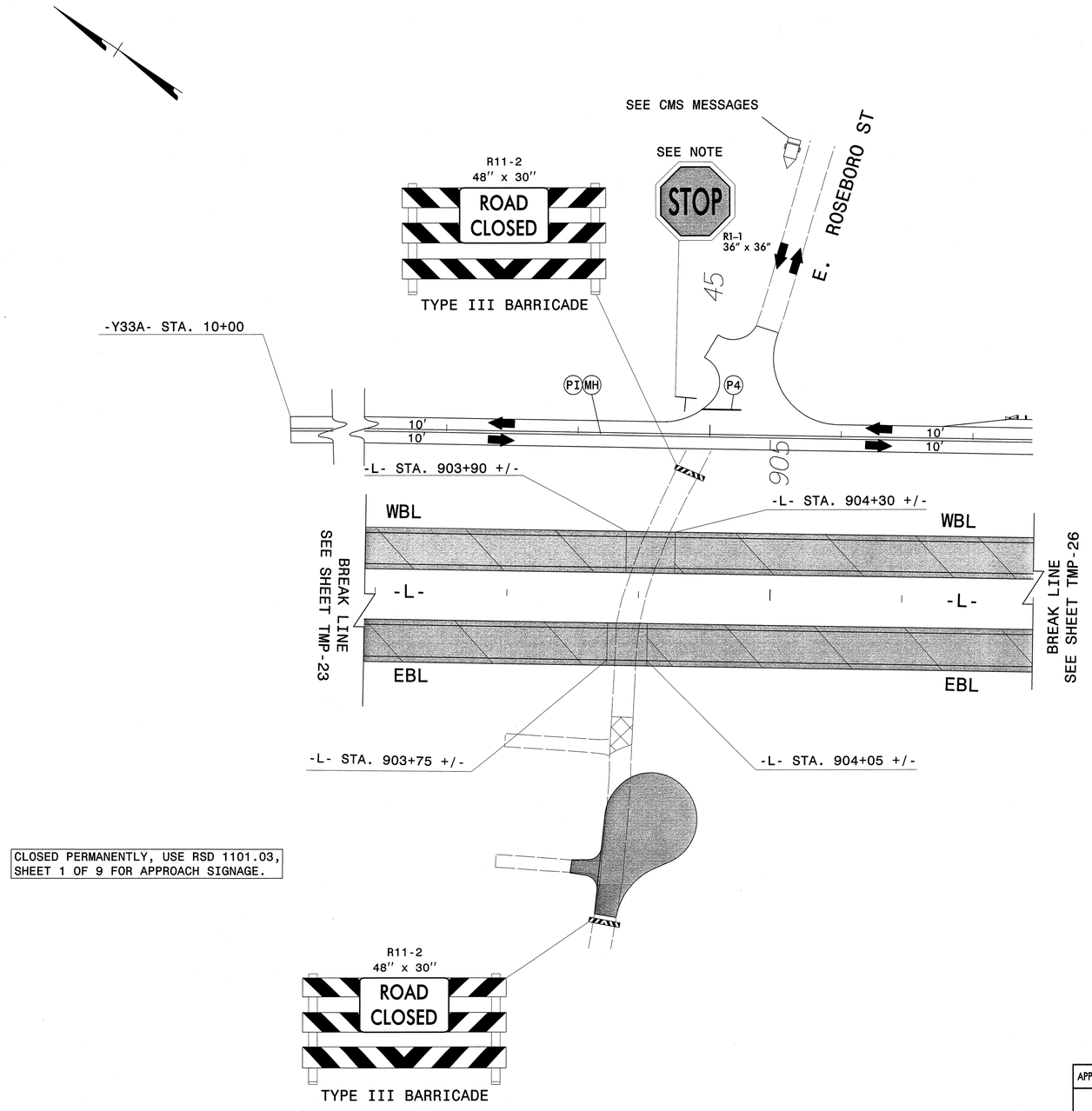
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PHASE II DETAIL
–L–, EXISTING NC 24,
DETOUR 2, SR 1354,
–Y33– &
–Y33A– (CLOSED)

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
O:\Transportation\Traffic\Curr\0003201O_R2303C_TCP\TMP Plans\r-2303c_TC_TMP_24.dgn
13833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-25



CLOSED PERMANENTLY, USE RSD 1101.03, SHEET 1 OF 9 FOR APPROACH SIGNAGE.

MESSAGES FOR CMS ON EAST ROSEBORO ST. TO BE PLACED 300' +/- PRIOR TO NEW STOP LOCATION

NEW TRAFFIC PATTERN	BEGIN MM/DD

1 WEEK PRIOR TO SHIFT

NEW STOP LOCATION 500 FT	NEW TRAFFIC PATTERN

CMS TO BE PLACED 300' +/- IN ADVANCE OF THE NEW STOP SIGN LOCATION FOR 1 WEEK AFTER RE-OPENING OR PER ENGINEER

NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE II DETAIL
-L-, -Y33A- &
E. ROSEBORO ST -Y33B-

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
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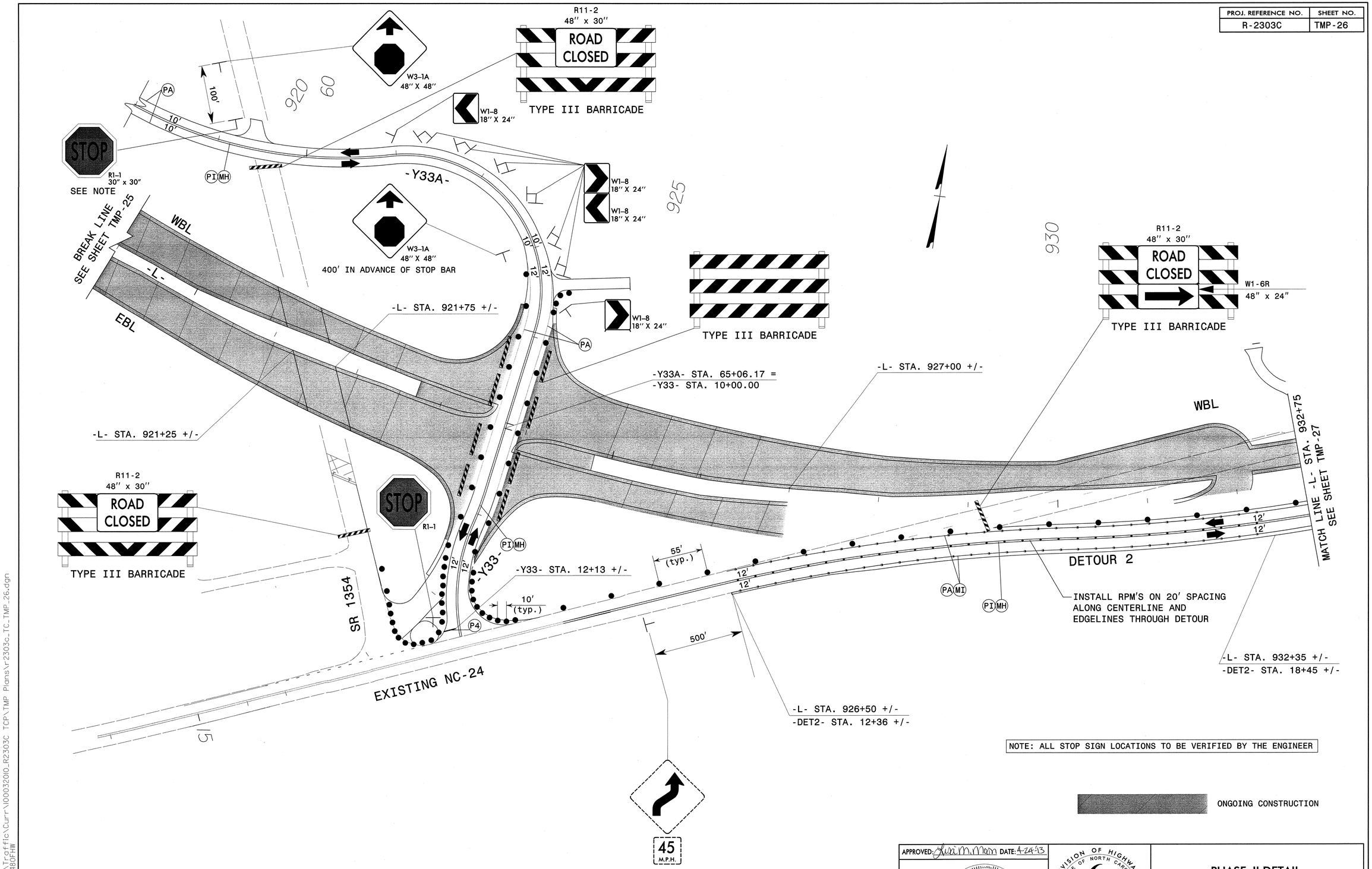
13833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-26



NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

ONGOING CONSTRUCTION

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE II DETAIL
-L-, EXISTING NC 24,
DETOUR 2, SR 1354,
-Y33- &
-Y33A- (OPEN)

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
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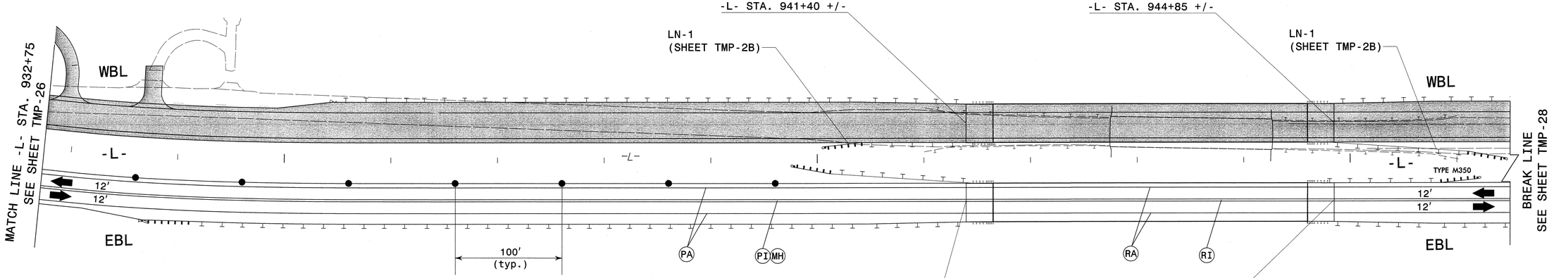
13833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-27

935

940

945



-L- STA. 941+40 +/-
END (PA)(PI)(MH)

BEGIN (RA)(RI)

-L- STA. 944+85 +/-
END (RA)(RI)

BEGIN (PA)(PI)(MH)

ONGOING CONSTRUCTION

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE II DETAIL -L- NC 24 & BRIDGE

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
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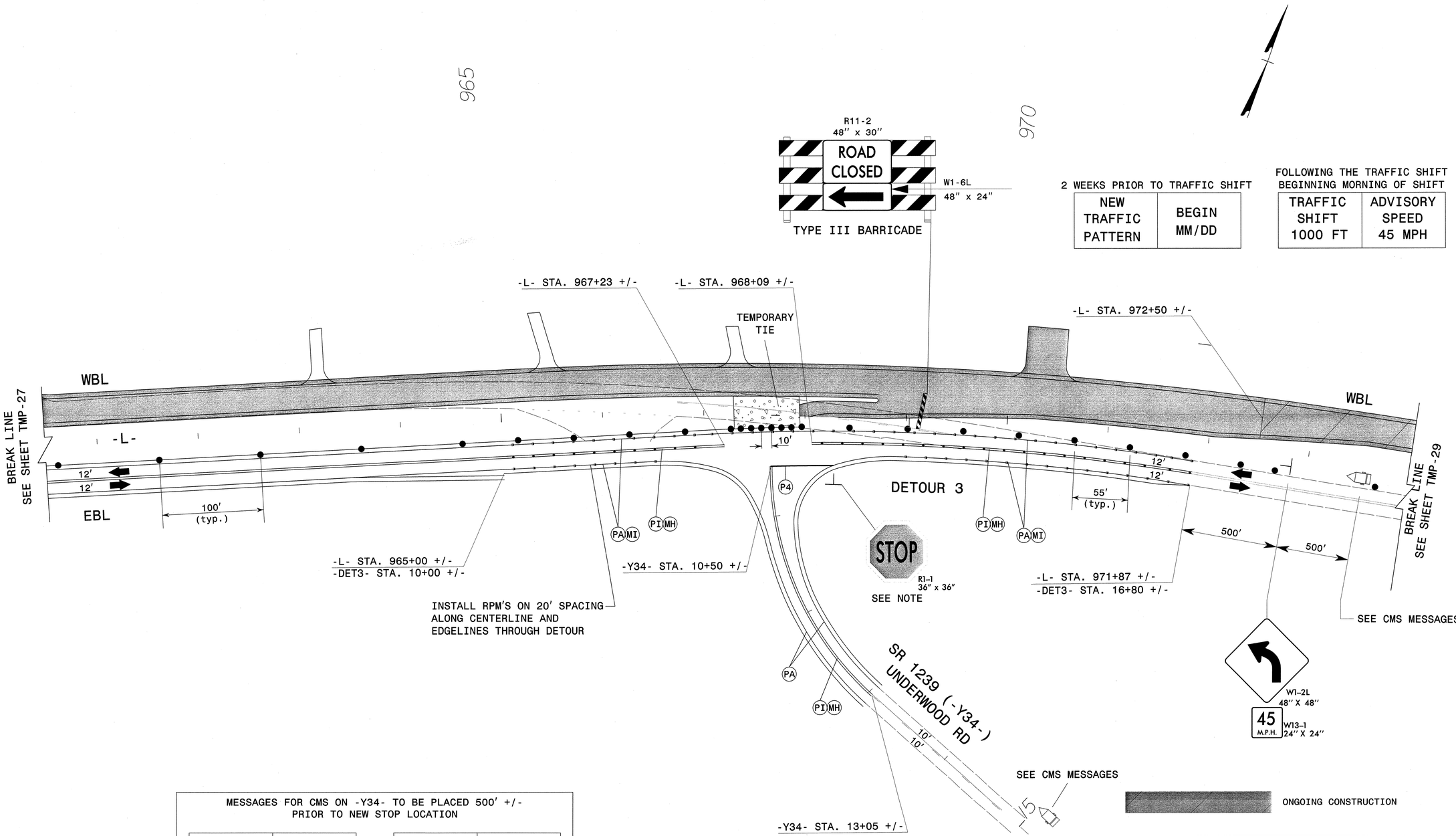
13833 AT RALZUM480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-28



2 WEEKS PRIOR TO TRAFFIC SHIFT

NEW TRAFFIC PATTERN	BEGIN MM/DD

FOLLOWING THE TRAFFIC SHIFT BEGINNING MORNING OF SHIFT

TRAFFIC SHIFT 1000 FT	ADVISORY SPEED 45 MPH

MESSAGES FOR CMS ON -Y34- TO BE PLACED 500' +/- PRIOR TO NEW STOP LOCATION

NEW TRAFFIC PATTERN	BEGIN MM/DD

1 WEEK PRIOR TO SHIFT

NEW STOP LOCATION 500 FT	NEW TRAFFIC PATTERN

CMS TO BE PLACED 500' +/- IN ADVANCE OF THE NEW STOP SIGN LOCATION FOR 1 WEEK AFTER RE-OPENING OR PER ENGINEER

NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

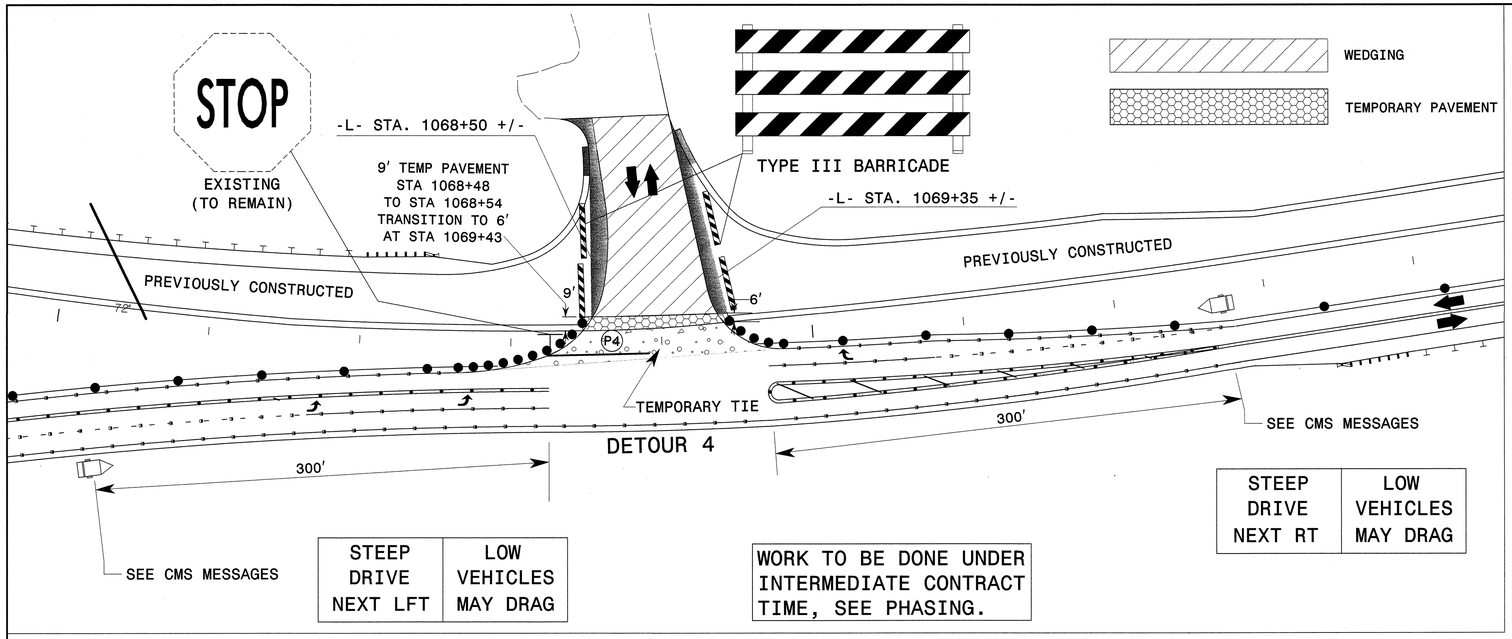
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE II DETAIL
-L- NC 24, DETOUR 3 &
UNDERWOOD RD -Y34-

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
O:\Transportation\Traffic\Curr\I00032010_R2303C TCP\TMP Plans\r2303c_TC_TMP_28.dgn
13833 AT RAL2UA1480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-29

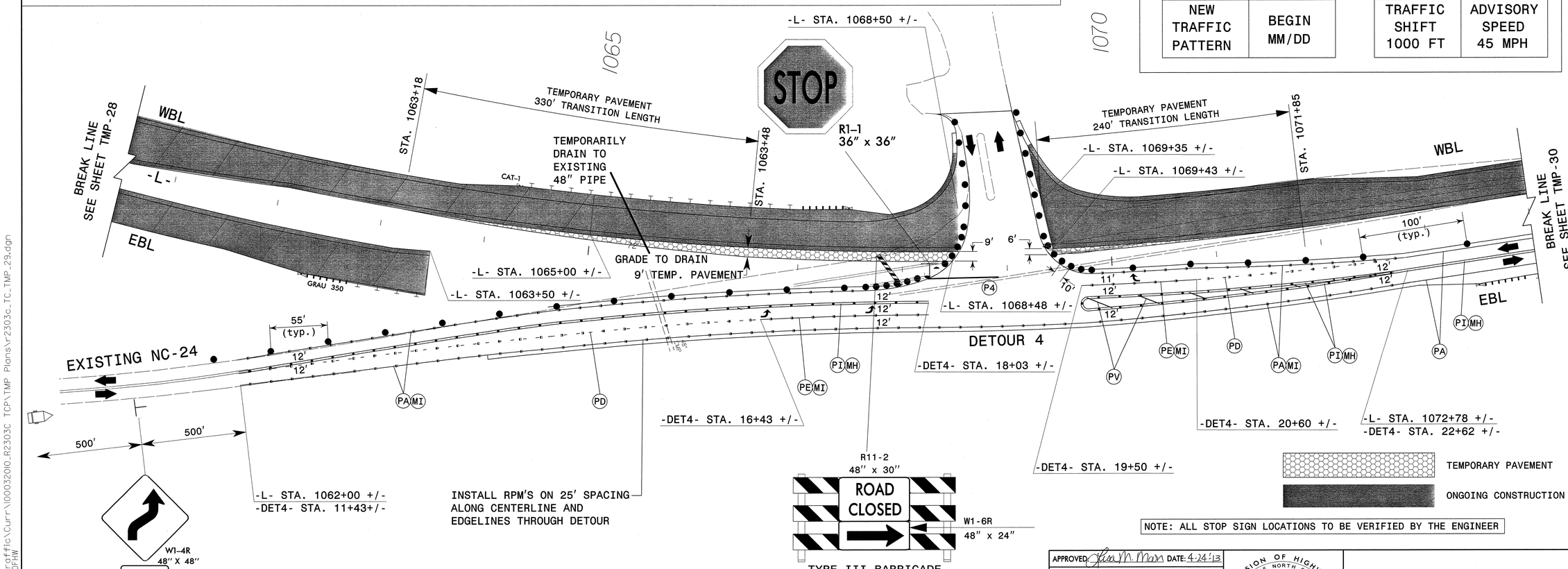


2 WEEKS PRIOR TO TRAFFIC SHIFT

NEW TRAFFIC PATTERN	BEGIN MM/DD

FOLLOWING THE TRAFFIC SHIFT BEGINNING MORNING OF SHIFT

TRAFFIC SHIFT 1000 FT	ADVISORY SPEED 45 MPH



SEE ROADWAY PLANS FOR DETOUR.

NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

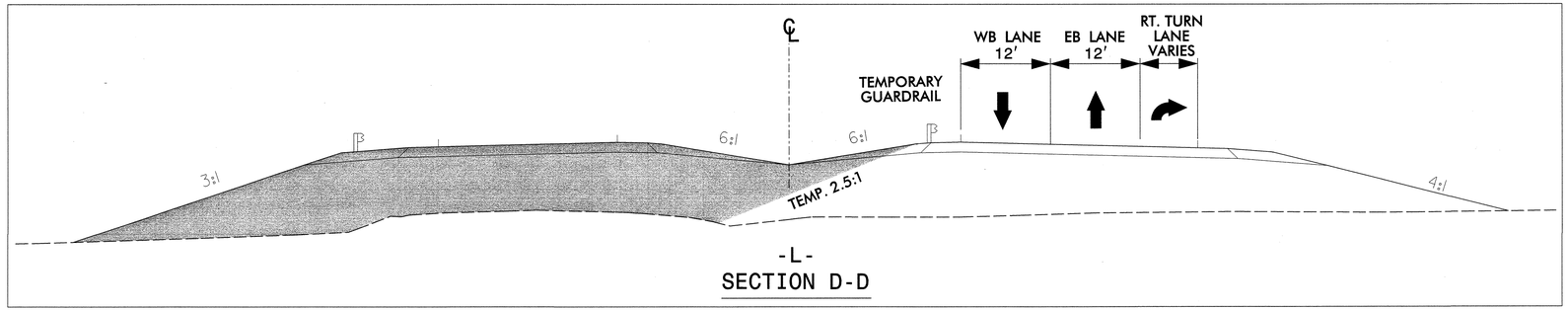
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

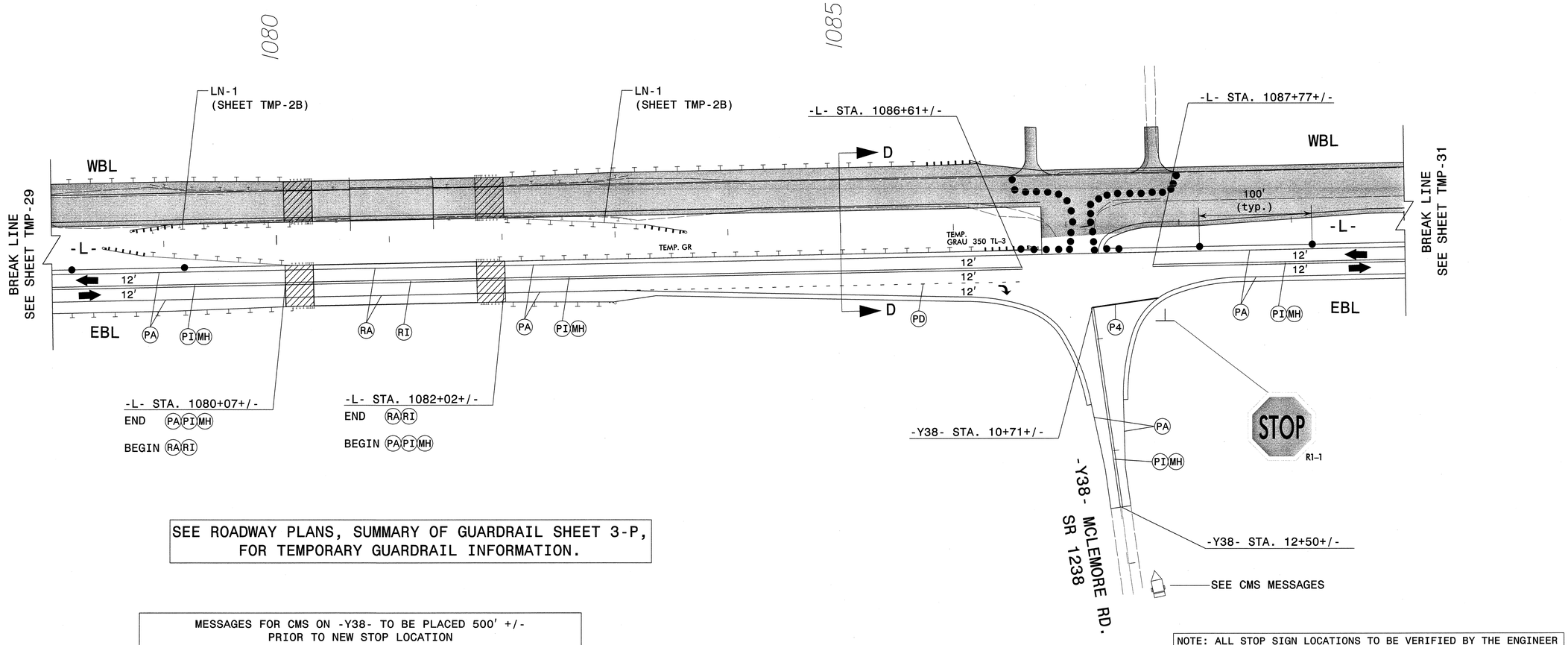
PHASE II DETAIL
-L-, EXISTING NC 24
& DETOUR 4

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

10-JUN-2013 15:20
O:\Transportation\Traffic\Curr\0003201O_R2303C TCP\TMP Plans\r2303c_TC_TMP_29.dgn
13833 AT RAL2UA1480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-30





SEE ROADWAY PLANS, SUMMARY OF GUARDRAIL SHEET 3-P, FOR TEMPORARY GUARDRAIL INFORMATION.

NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

MESSAGES FOR CMS ON -Y38- TO BE PLACED 500' +/- PRIOR TO NEW STOP LOCATION

NEW TRAFFIC PATTERN	BEGIN MM/DD

1 WEEK PRIOR TO SHIFT

NEW STOP LOCATION 500 FT	NEW TRAFFIC PATTERN

CMS TO BE PLACED 500' +/- IN ADVANCE OF THE NEW STOP SIGN LOCATION FOR 1 WEEK AFTER RE-OPENING OR PER ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

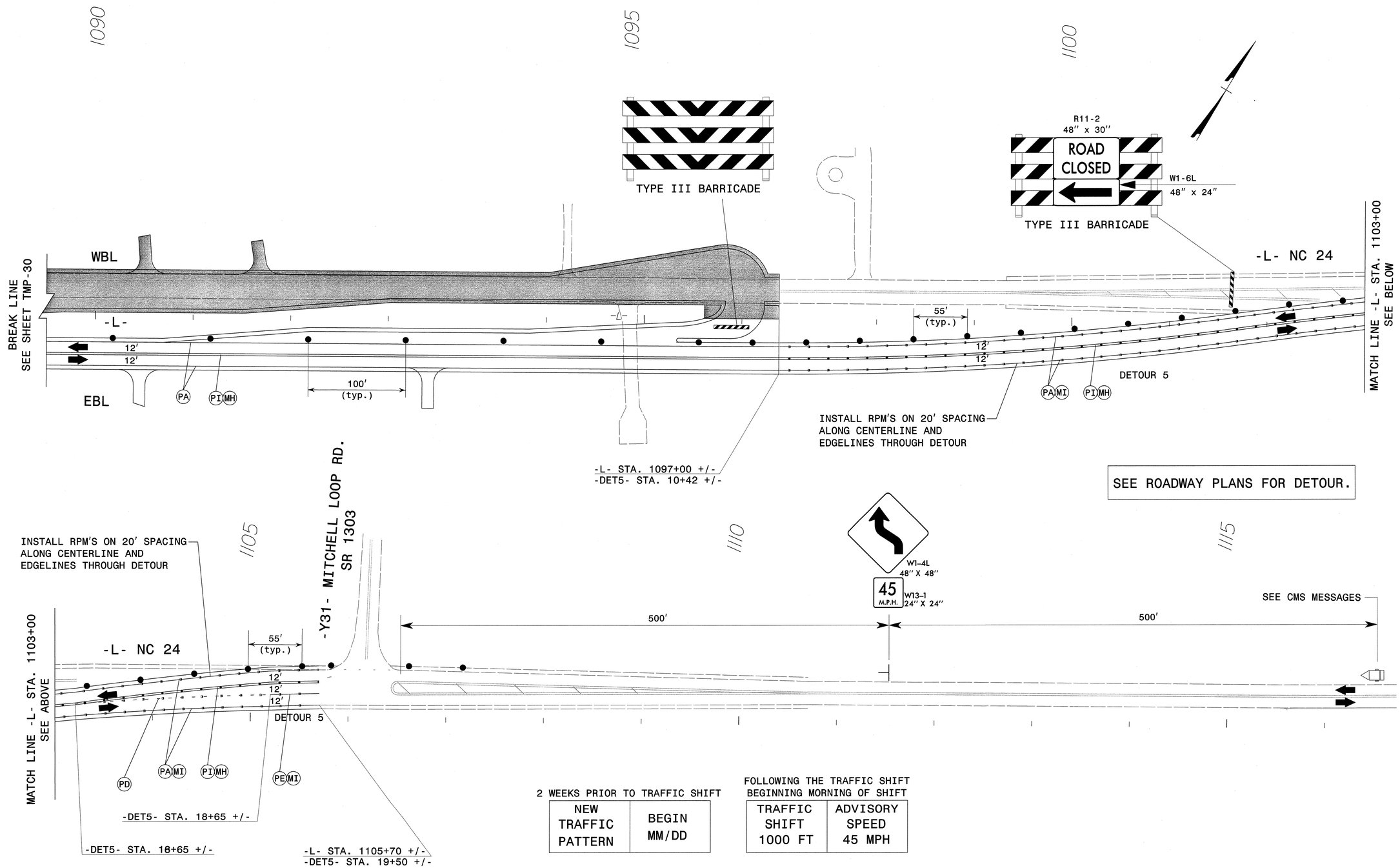
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE II DETAIL
-L- NC 24, BRIDGE & MCLEMORE RD -Y38-

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
O:\Transportation\Traffic\Curr\10003201O_R2303C TCP\TMP Plans\r2303c_TC_TMP_30.dgn
13833 AT RAL2UA1480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-31



2 WEEKS PRIOR TO TRAFFIC SHIFT

NEW TRAFFIC PATTERN	BEGIN MM/DD

FOLLOWING THE TRAFFIC SHIFT BEGINNING MORNING OF SHIFT

TRAFFIC SHIFT 1000 FT	ADVISORY SPEED 45 MPH

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

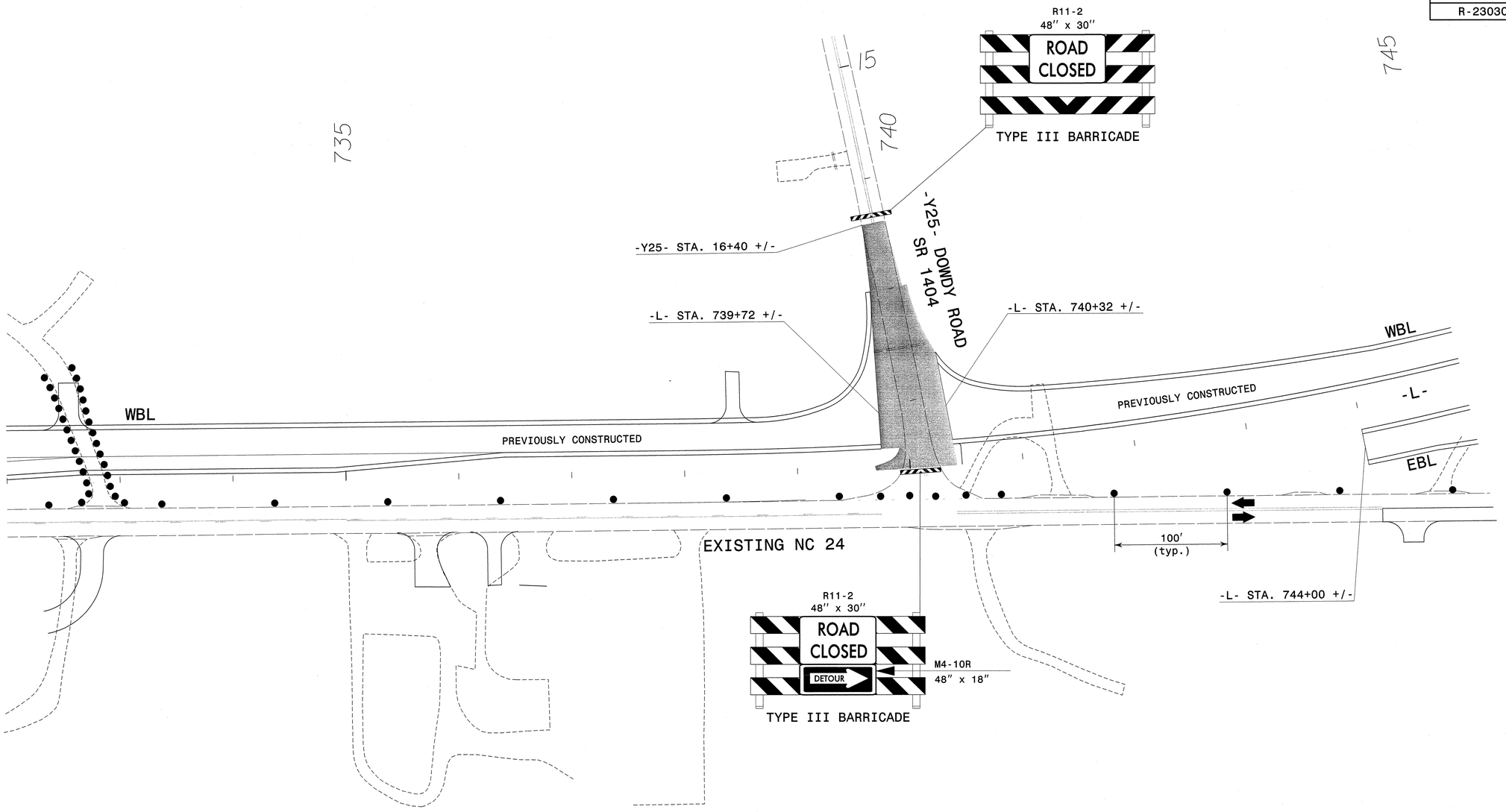
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE II DETAIL
-L- NC 24 & DETOUR 5

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
O:\Transportation\Traffic\Curr\10003201O_R2303C TCP\TMP Plans\r2303c_TC_TMP_31.dgn
13833 AT RAL2UA1480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-32



SEE RSD 1101.03 FOR CLOSURE.
SEE TMP-54 FOR DETOUR ROUTE.

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

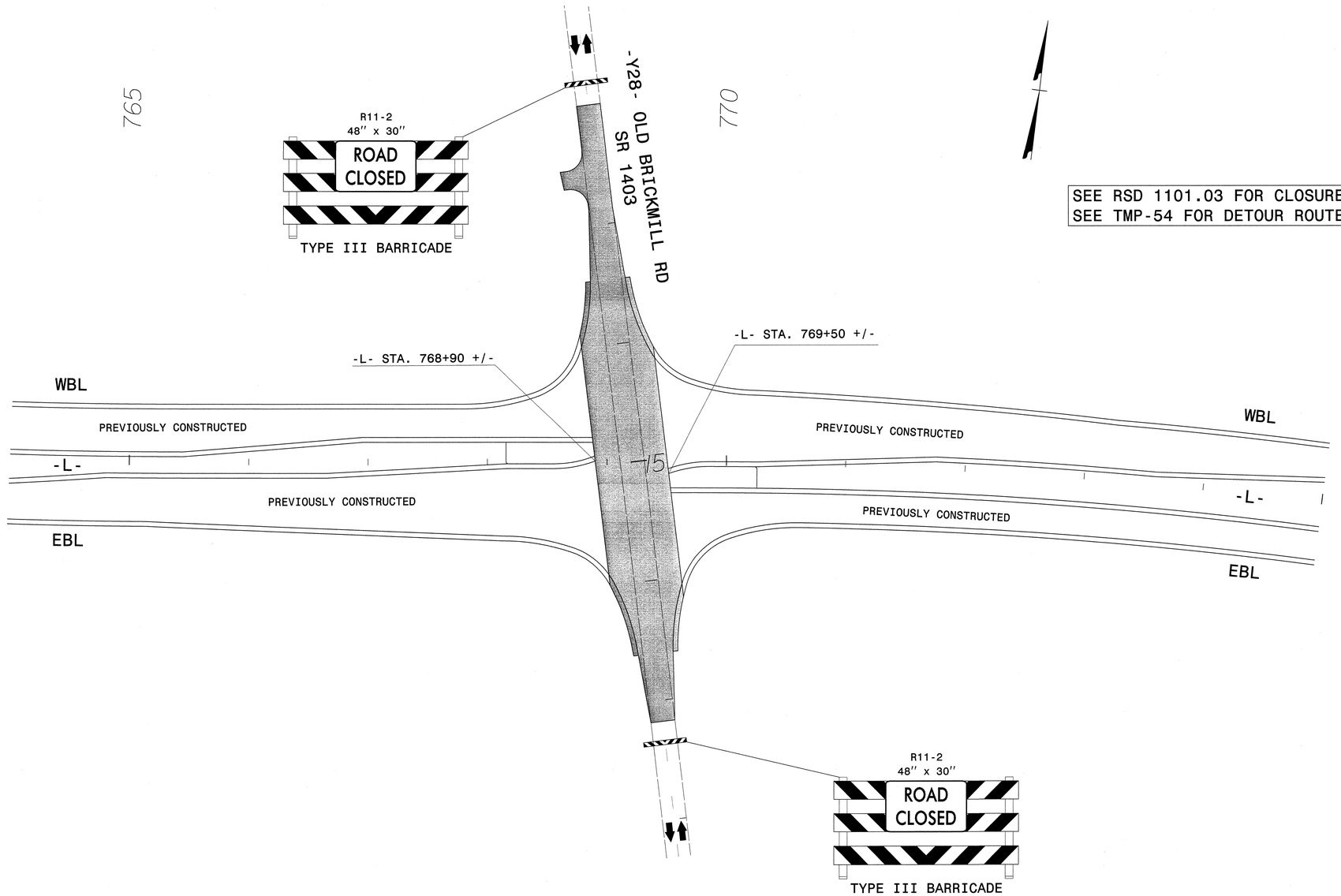
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE II DETAIL
-L- NC 24 &
DOWDY RD -Y25-

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
O:\Transportation\Traffic\Curr\100032010_R2303C TCP\TMP Plans\r2303c_TC_TMP_32.dgn
13833 AT RAL2UA1480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP- 33



SEE RSD 1101.03 FOR CLOSURE.
SEE TMP-54 FOR DETOUR ROUTE.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE II DETAIL
–L– &
OLD BRICK MILL RD –Y28–

24-APR-2013 18:00
D:\Transportation\Traffic\Curr\0003200_R2303C TCP\TMP Plans\r2303c_TC_TMP_33.dgn
13833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP- 34

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE

-Y29- FAIRCLOTH ROAD
SR 1402

-Y30- LUCAS ROAD
SR 1401

785

790

795

SEE RSD 1101.03 FOR CLOSURE.
SEE TMP-54 FOR DETOUR ROUTE.

-L- STA. 785+38 +/-

-L- STA. 796+12 +/-

WBL

WBL

PREVIOUSLY CONSTRUCTED

PREVIOUSLY CONSTRUCTED

-L-

-L-

PREVIOUSLY CONSTRUCTED

PREVIOUSLY CONSTRUCTED

EBL

EBL

-L- STA. 784+86 +/-

-L- STA. 796+72 +/-

-Y29- FAIRCLOTH ROAD
SR 1402

-Y30- LUCAS ROAD
SR 1401

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE

24-APR-2013 18:00
DA:\Transportation\Traffic\Curr\10003200_R2303C_TCP\TMP Plans\r2303c_TC_TMP_34.dgn
USER: AT RAL-2UA1400FHW

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

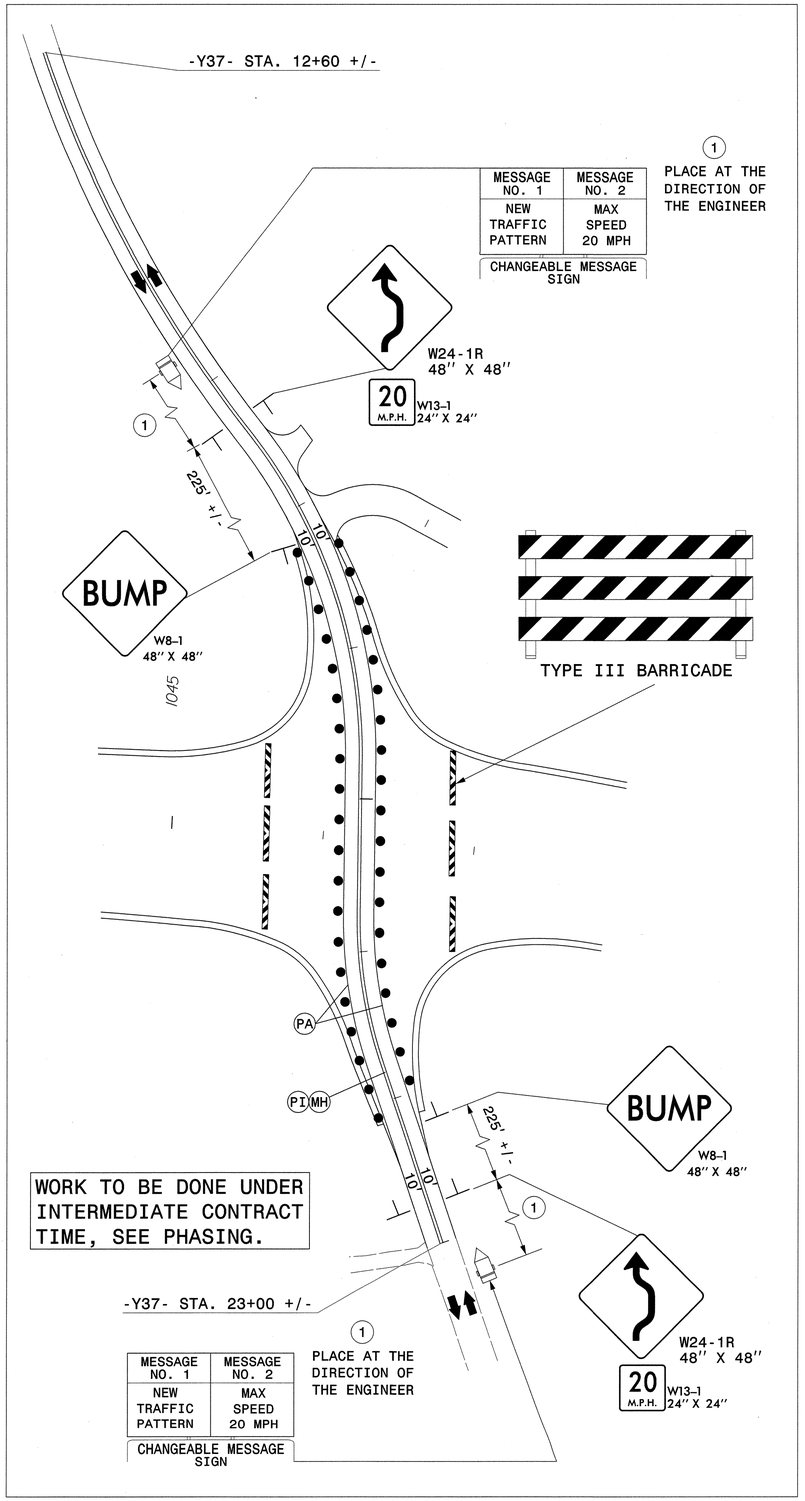
APPROVED: Lisa M. Moon DATE: 4-24-13

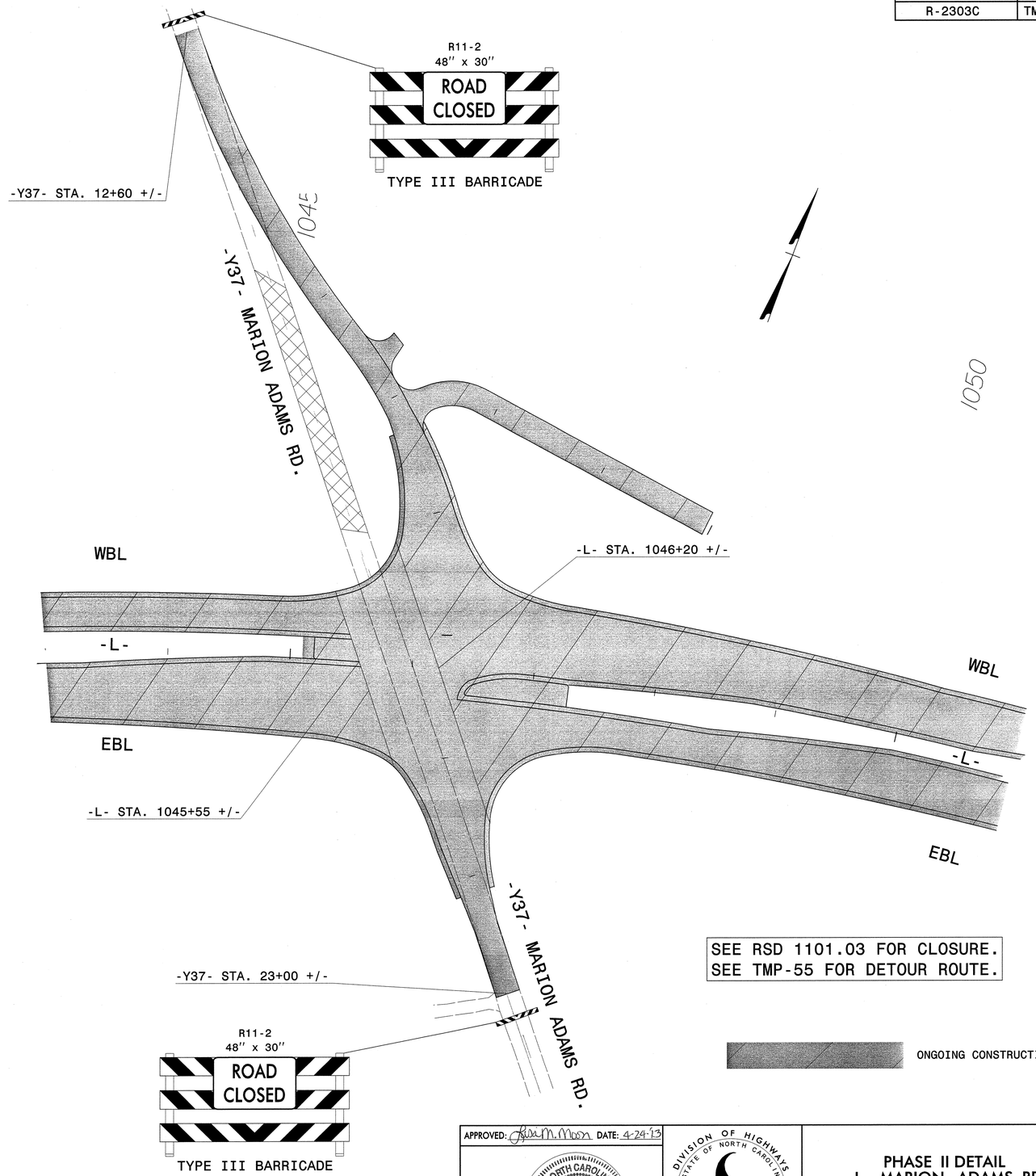
NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE II DETAIL
–L–, FAIRCLOTH RD –Y29–
& LUCAS RD –Y30–

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-35





APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

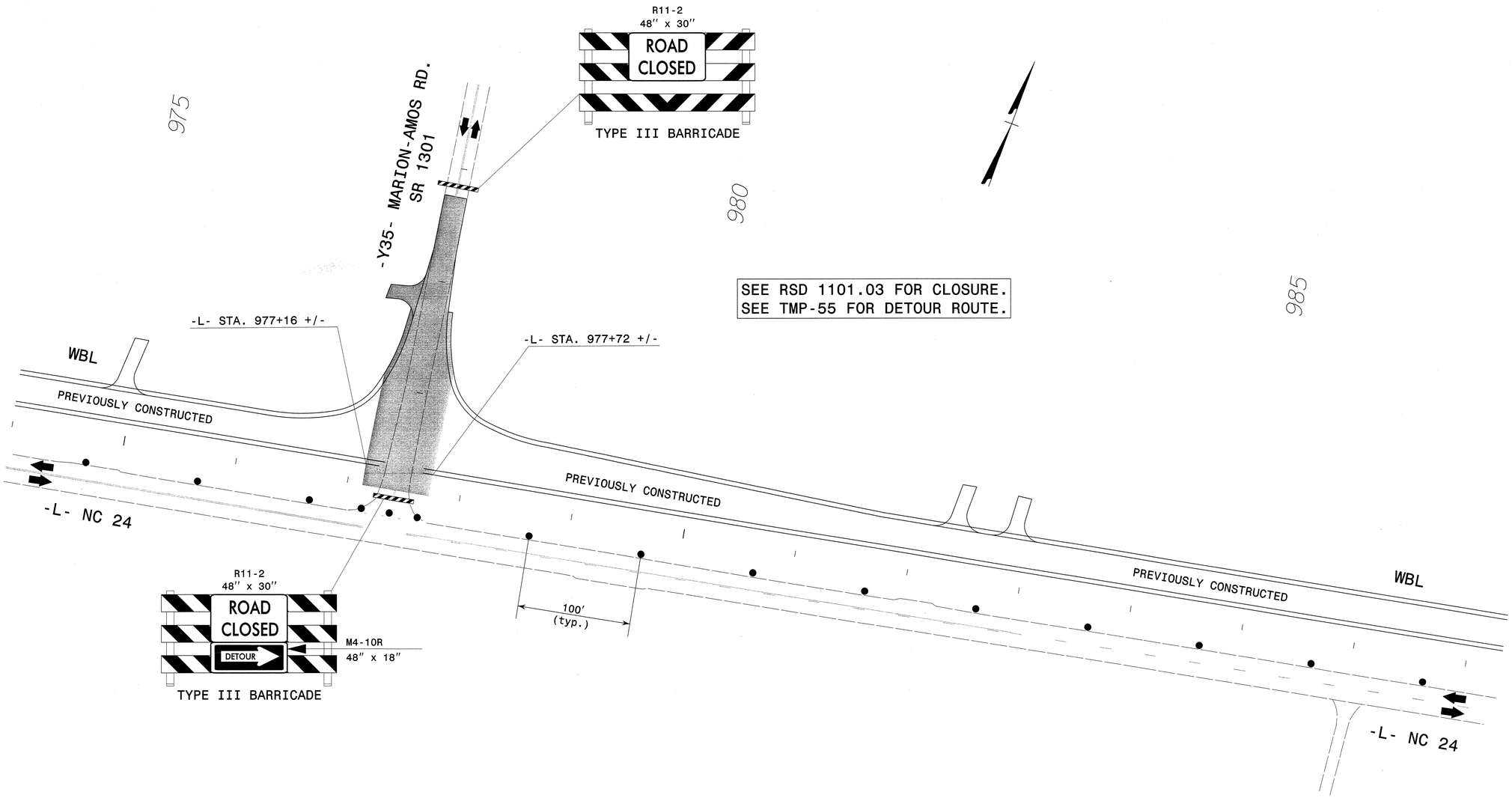
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PHASE II DETAIL
–L–, MARION ADAMS RD
–Y37– (CLOSED) &
MARION ADAMS RD
–Y37– (OPEN)

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
C:\Projects\Division\Traffic\Curr\V0003200_R2303C TCP\TMP Plans\r-2303c_TC_TMP_35.dgn
13833 AT RALEIGH480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-36



WORK TO BE DONE UNDER INTERMEDIATE CONTRACT TIME, SEE PHASING.

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: Lisa M. Moon DATE: 4-24-13

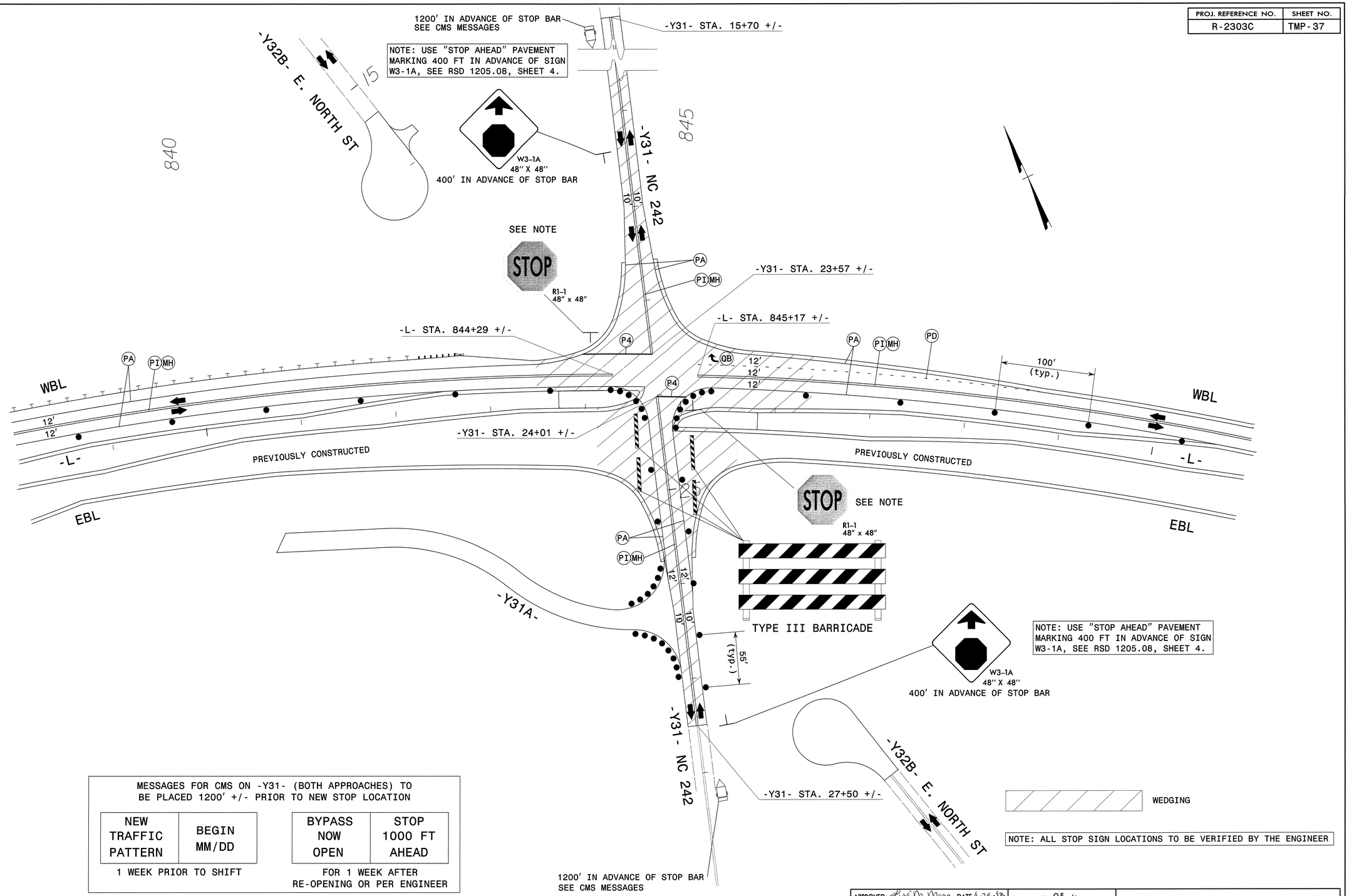
NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE II DETAIL
–L– NC 24 &
MARION–AMOS RD –Y35–

24-APR-2013 18:00
G:\Transportation\Traffic\Curr\0003200_R2303C TCP\TMP Plans\r2303c_TC_TMP_36.dgn
13633 AT RAL2UA1460FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-37



MESSAGES FOR CMS ON -Y31- (BOTH APPROACHES) TO BE PLACED 1200' +/- PRIOR TO NEW STOP LOCATION

NEW TRAFFIC PATTERN	BEGIN MM/DD

1 WEEK PRIOR TO SHIFT

BYPASS NOW OPEN	STOP 1000 FT AHEAD

FOR 1 WEEK AFTER RE-OPENING OR PER ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

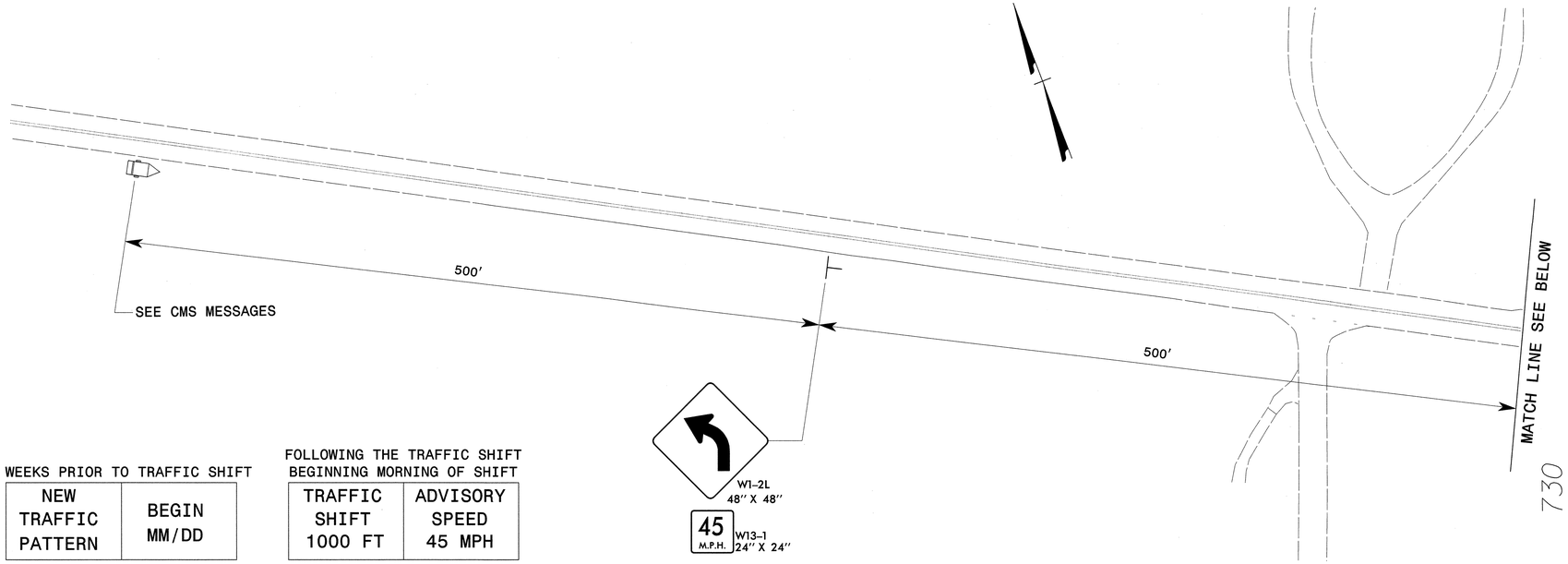
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE III DETAIL
-L-, NC 242 -Y31-,
-Y31A- & E. NORTH ST -Y32B-

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
O:\Transportation\Traffic\Curr\10003201O_R2303C TCP\TMP Plans\r2303c_TC_TMP_37.dgn
13833 AT RAL2UA1480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP- 38

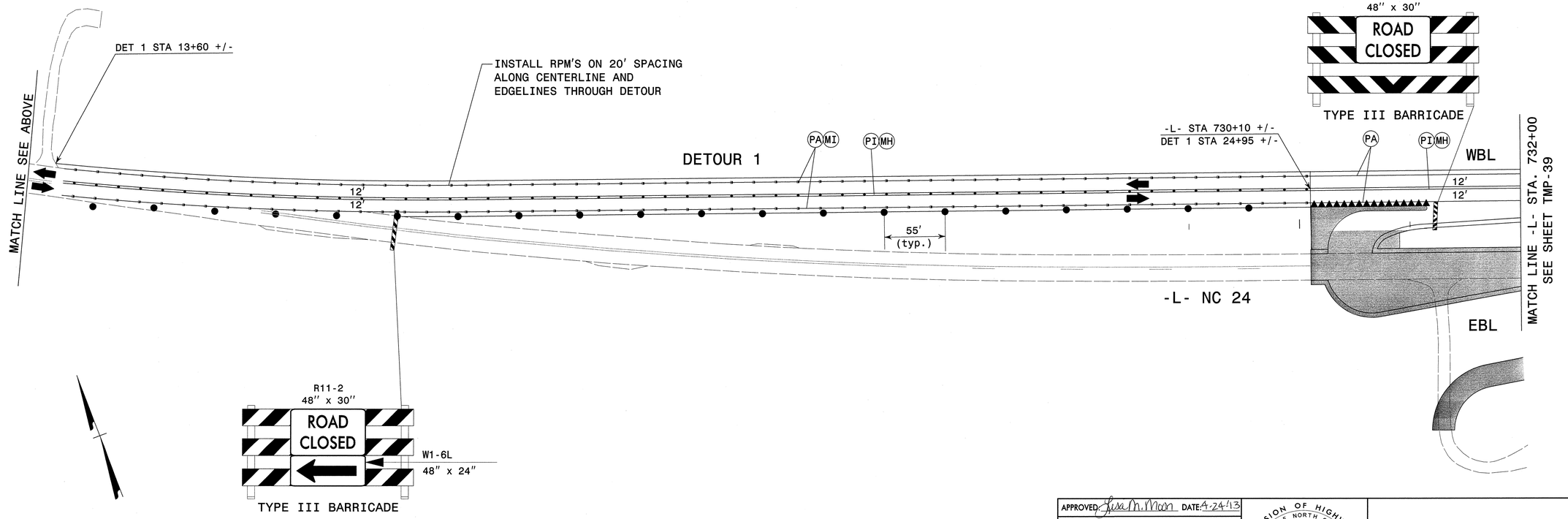


2 WEEKS PRIOR TO TRAFFIC SHIFT

NEW TRAFFIC PATTERN	BEGIN MM/DD

FOLLOWING THE TRAFFIC SHIFT BEGINNING MORNING OF SHIFT

TRAFFIC SHIFT 1000 FT	ADVISORY SPEED 45 MPH



APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

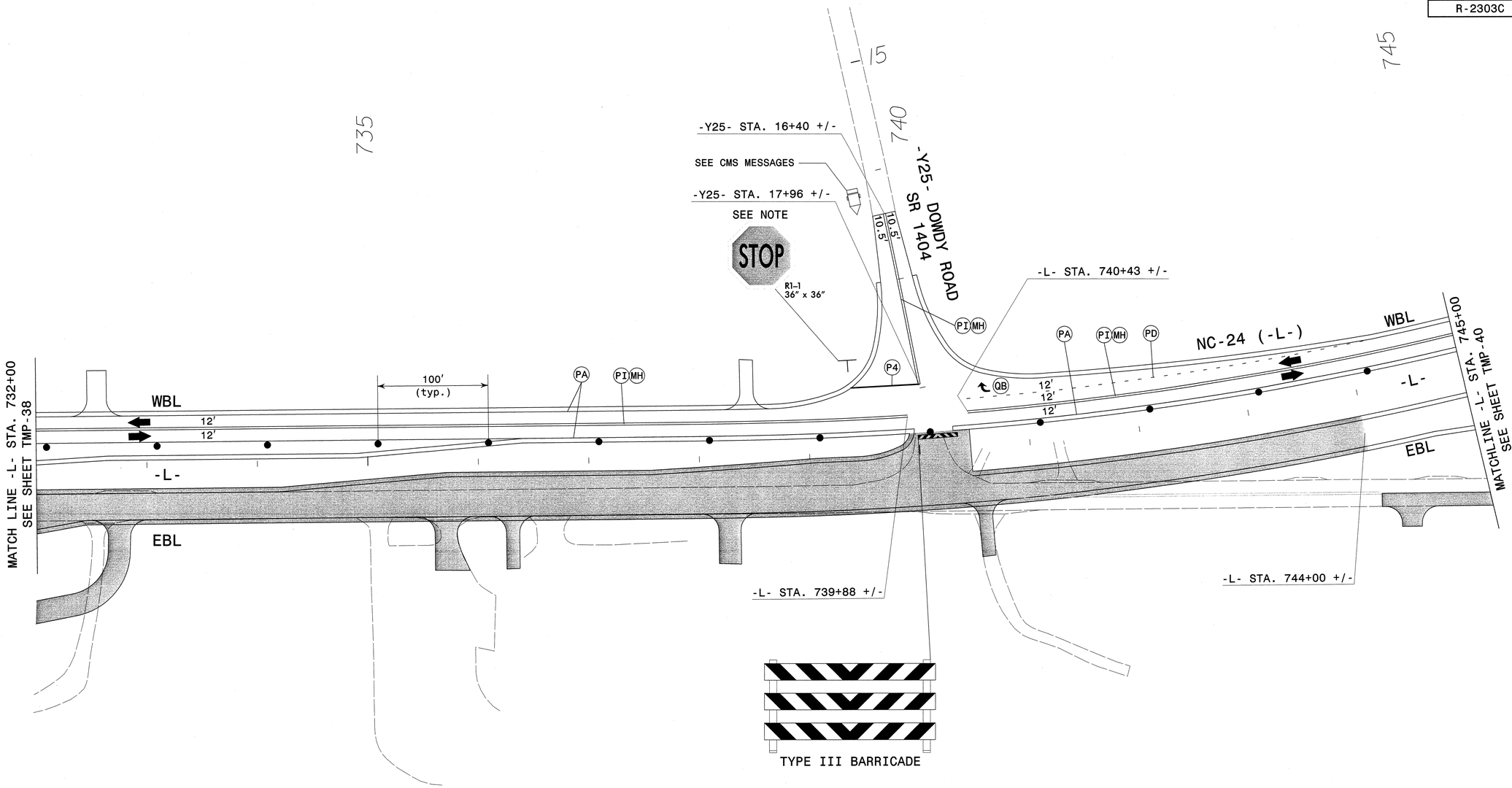
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE III DETAIL NC 24 -L- & DETOUR 1

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
O:\Transportation\Traffic\Curr\I00032010_R2303C TCP\TMP Plans\r2303c_TC_TMP_38.dgn
13833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP- 39



NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

MESSAGES FOR CMS ON -Y25- TO BE PLACED 500' +/-
PRIOR TO NEW STOP LOCATION

NEW TRAFFIC PATTERN	BEGIN MM/DD

1 WEEK PRIOR TO SHIFT

NEW STOP LOCATION 500 FT	NEW TRAFFIC PATTERN

CMS TO BE PLACED 500' +/- IN ADVANCE OF THE NEW STOP SIGN LOCATION FOR 1 WEEK AFTER RE-OPENING OR PER ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE III DETAIL
-L- NC 24 &
DOWDY RD -Y25-

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
O:\Transportation\Traffic\Curr\100032010_R2303C TCP\TMP Plans\r2303c_TC_TMP_39.dgn
13833 AT RAL2UA1480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-40

745

750

755

R11-2
48" x 30"

ROAD CLOSED

DETOUR

M4-10L
48" x 18"

TYPE III BARRICADE

MATCH LINE -L- STA. 745+00
SEE SHEET TMP-39

WBL

12'

12'

-L-

PA

PI

MH

100'
(typ.)

EBL

PREVIOUSLY CONSTRUCTED

PA

PI

MH

WBL

12'

12'

-L-

BREAK LINE
SEE SHEET TMP-41

PREVIOUSLY CONSTRUCTED

EBL

EXISTING NC-24

-Y27- STA. 10+50

-Y26-

-Y26- STA. 13+64

-Y26- STA. 16+00

R11-2
48" x 30"

ROAD CLOSED

TYPE III BARRICADE

SEE RSD 1101.03 FOR CLOSURE.
SEE TMP-56 FOR DETOUR ROUTE.

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE III DETAIL
NC 24 –L– & –Y26–

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
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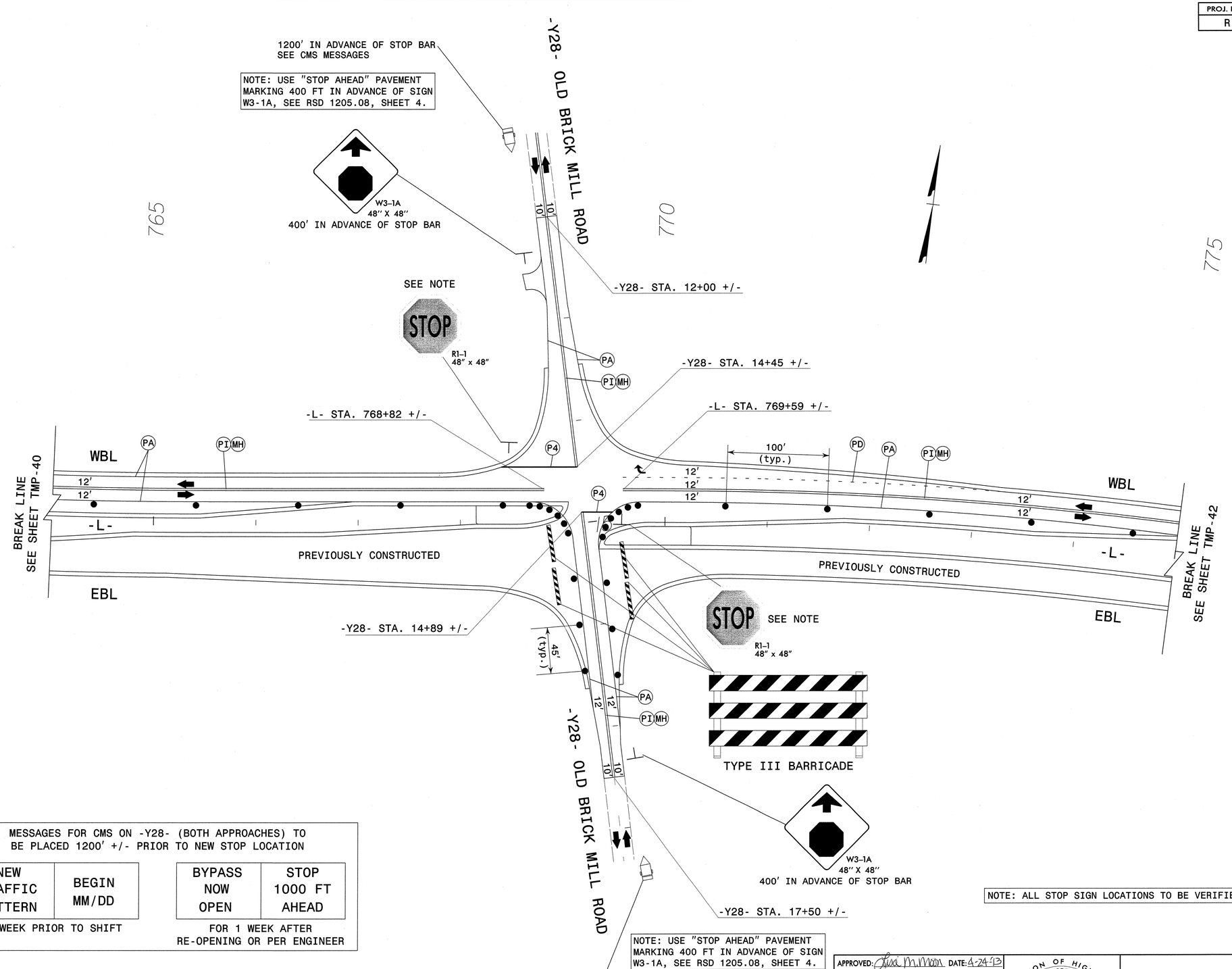
13833 AT RAL2UA1480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-41



MESSAGES FOR CMS ON -Y28- (BOTH APPROACHES) TO BE PLACED 1200' +/- PRIOR TO NEW STOP LOCATION

NEW TRAFFIC PATTERN	BEGIN MM/DD
1 WEEK PRIOR TO SHIFT	

BYPASS NOW OPEN	STOP 1000 FT AHEAD
FOR 1 WEEK AFTER RE-OPENING OR PER ENGINEER	

NOTE: USE "STOP AHEAD" PAVEMENT MARKING 400 FT IN ADVANCE OF SIGN W3-1A, SEE RSD 1205.08, SHEET 4.

NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

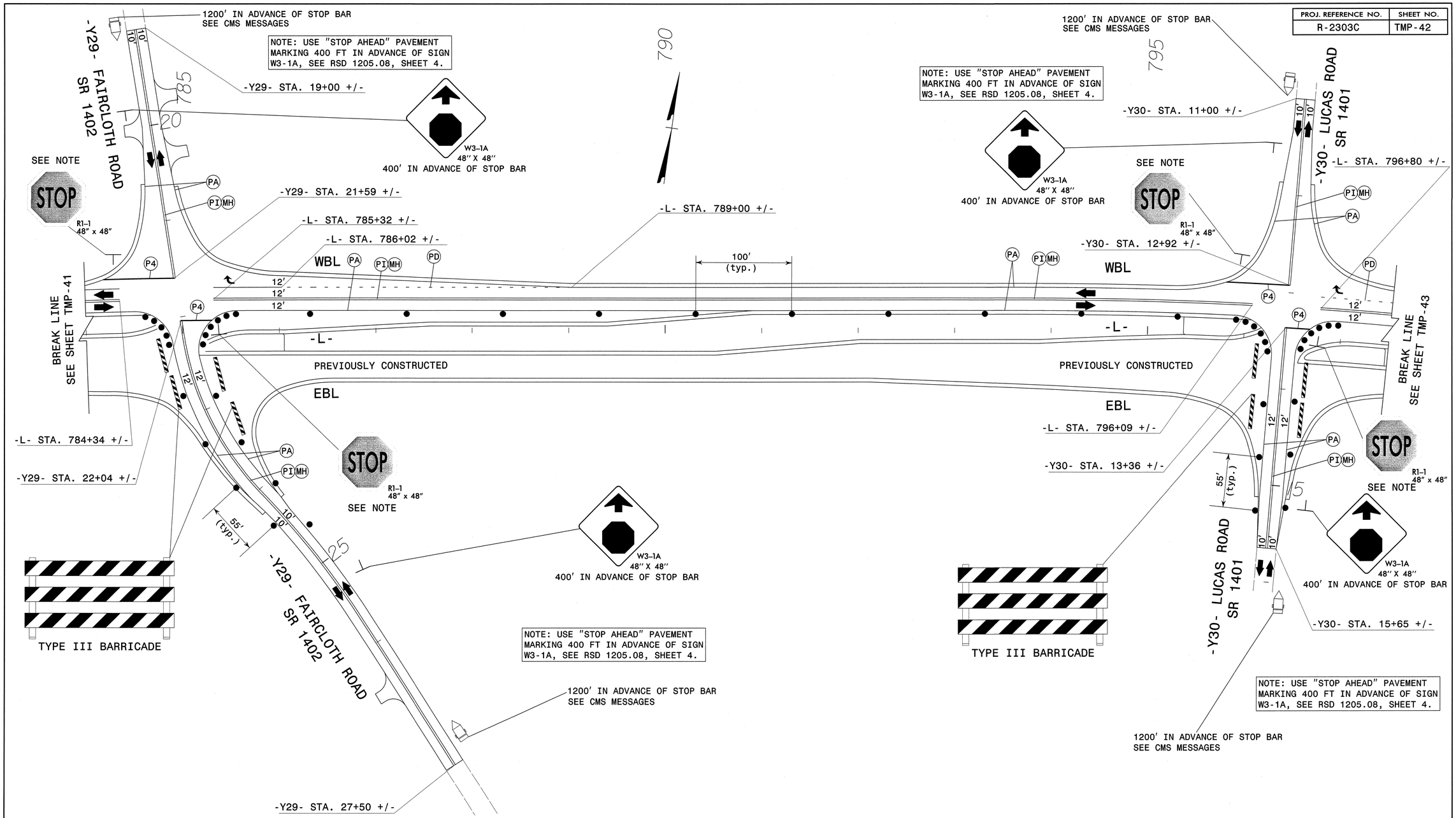
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE III DETAIL
–L– &
OLD BRICK MILL RD –Y28–

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
O:\Transportation\Traffic\Curr\0003200_R2303C TCP\TMP Plans\r2303c_TC_TMP_41.dgn
13833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-42



MESSAGES FOR CMS ON -Y29- AND -Y30- (BOTH APPROACHES) TO BE PLACED 1200' +/- PRIOR TO NEW STOP LOCATION

NEW TRAFFIC PATTERN	BEGIN MM/DD
1 WEEK PRIOR TO SHIFT	

BYPASS NOW OPEN	STOP 1000 FT AHEAD
FOR 1 WEEK AFTER RE-OPENING OR PER ENGINEER	

NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE III DETAIL
–L–, FAIRCLOTH RD –Y29– & LUCAS RD –Y30–

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
Q:\Transportation\Traffic\Curr\0003200_R2303C TCP\TMP Plans\r2303c_TC_TMP_42.dgn
3833 AT RAL2UAL480HW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-43

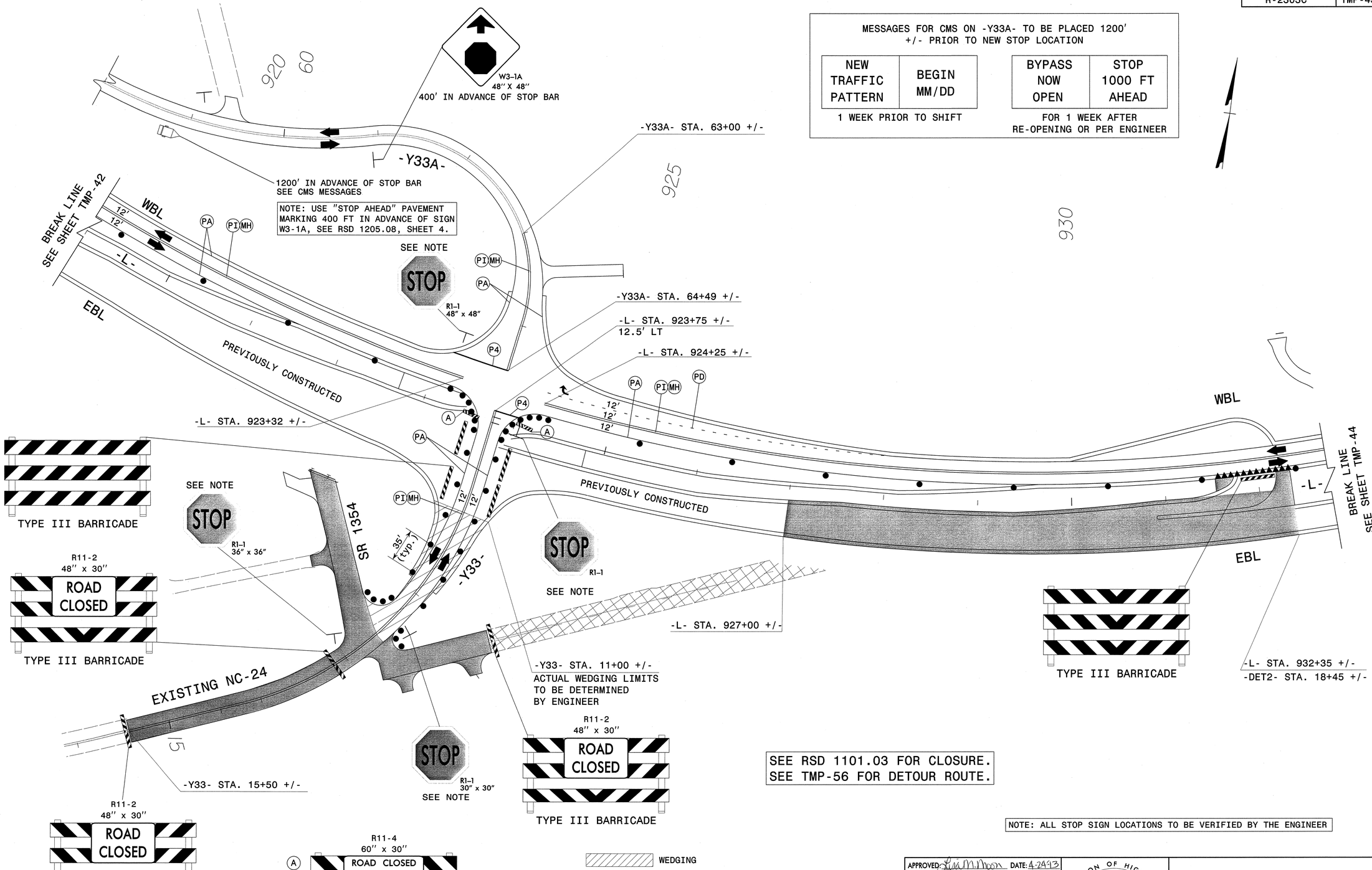
MESSAGES FOR CMS ON -Y33A- TO BE PLACED 1200' +/- PRIOR TO NEW STOP LOCATION

NEW TRAFFIC PATTERN	BEGIN MM/DD

1 WEEK PRIOR TO SHIFT

BYPASS NOW OPEN	STOP 1000 FT AHEAD

FOR 1 WEEK AFTER RE-OPENING OR PER ENGINEER



SEE RSD 1101.03 FOR CLOSURE.
SEE TMP-56 FOR DETOUR ROUTE.

NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

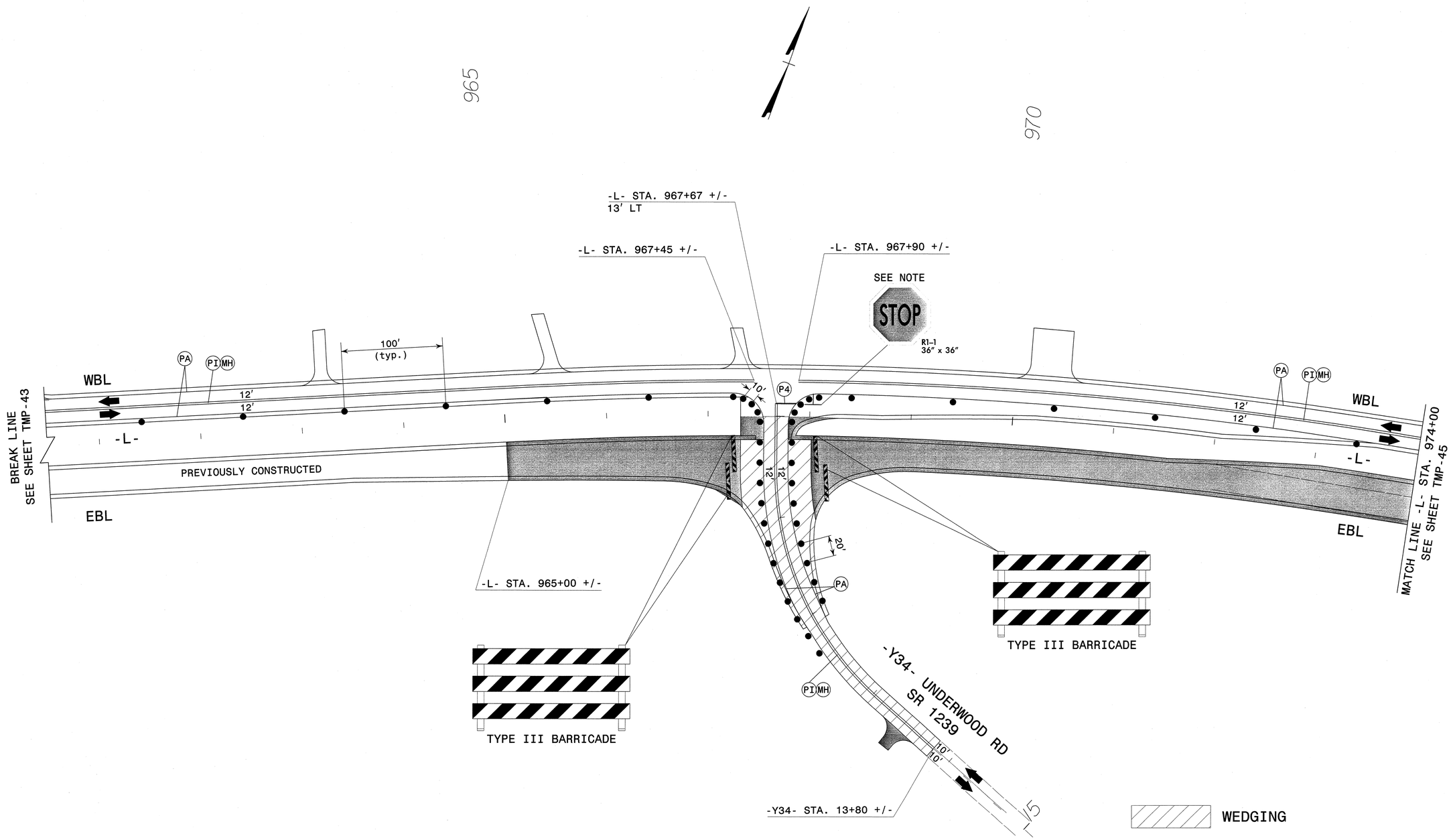
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE III DETAIL
-L-,
EXISTING NC 24 -Y33-
& -Y33A-

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
O:\Transportation\Traffic\Curr\I00032010_R2303C TCP\TMP Plans\r2303c_TC_TMP_43.dgn
13833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-44



NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE III DETAIL
-L- NC 24 &
UNDERWOOD RD -Y34-

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
O:\Transportation\Traffic\Curr\100032010_R2303C TCP\TMP Plans\r2303c_TC_TMP_44.dgn
13833 AT RAL2UA1480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-45

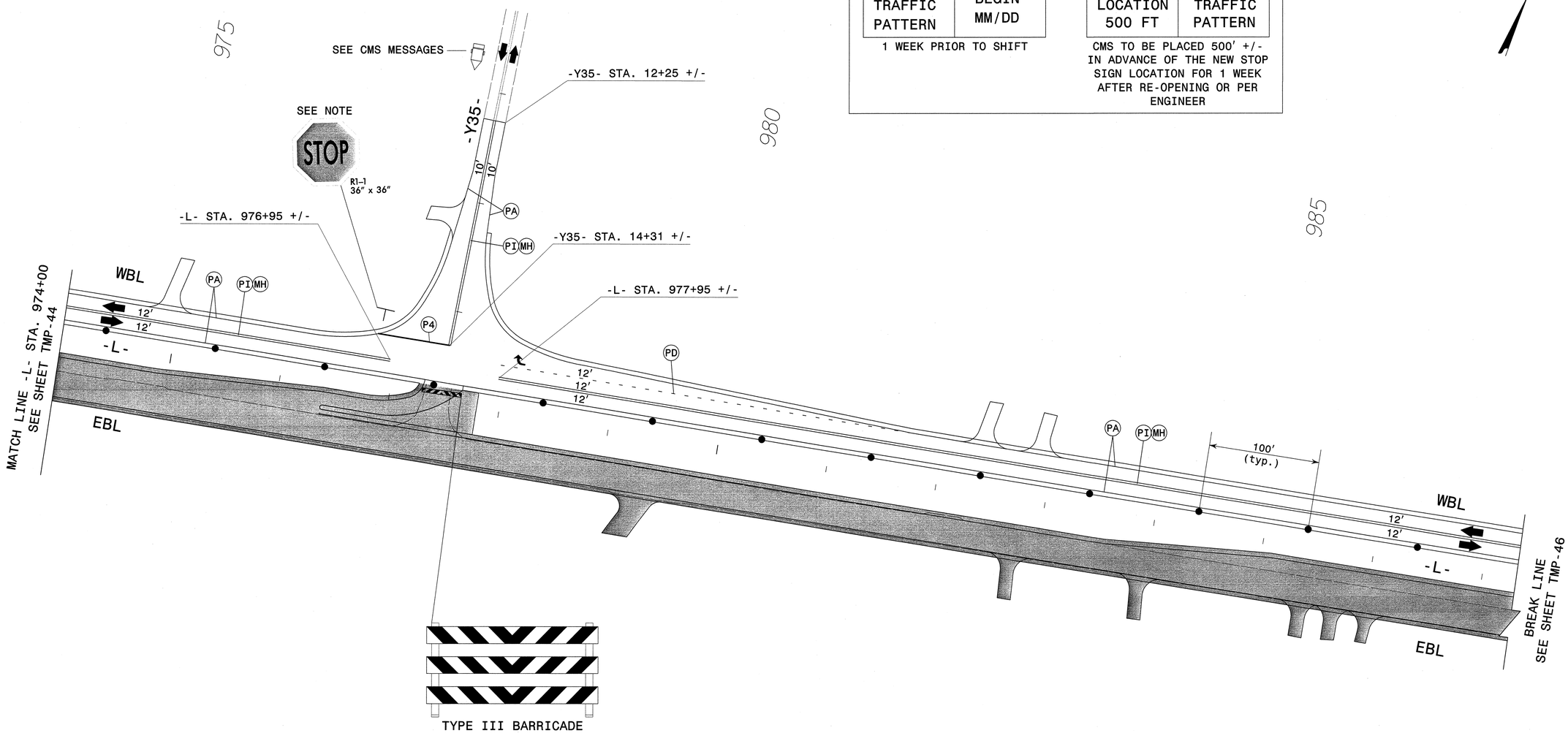
MESSAGES FOR CMS ON -Y35- TO BE PLACED 500' +/- PRIOR TO NEW STOP LOCATION

NEW TRAFFIC PATTERN	BEGIN MM/DD

1 WEEK PRIOR TO SHIFT

NEW STOP LOCATION 500 FT	NEW TRAFFIC PATTERN

CMS TO BE PLACED 500' +/- IN ADVANCE OF THE NEW STOP SIGN LOCATION FOR 1 WEEK AFTER RE-OPENING OR PER ENGINEER



TYPE III BARRICADE

NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

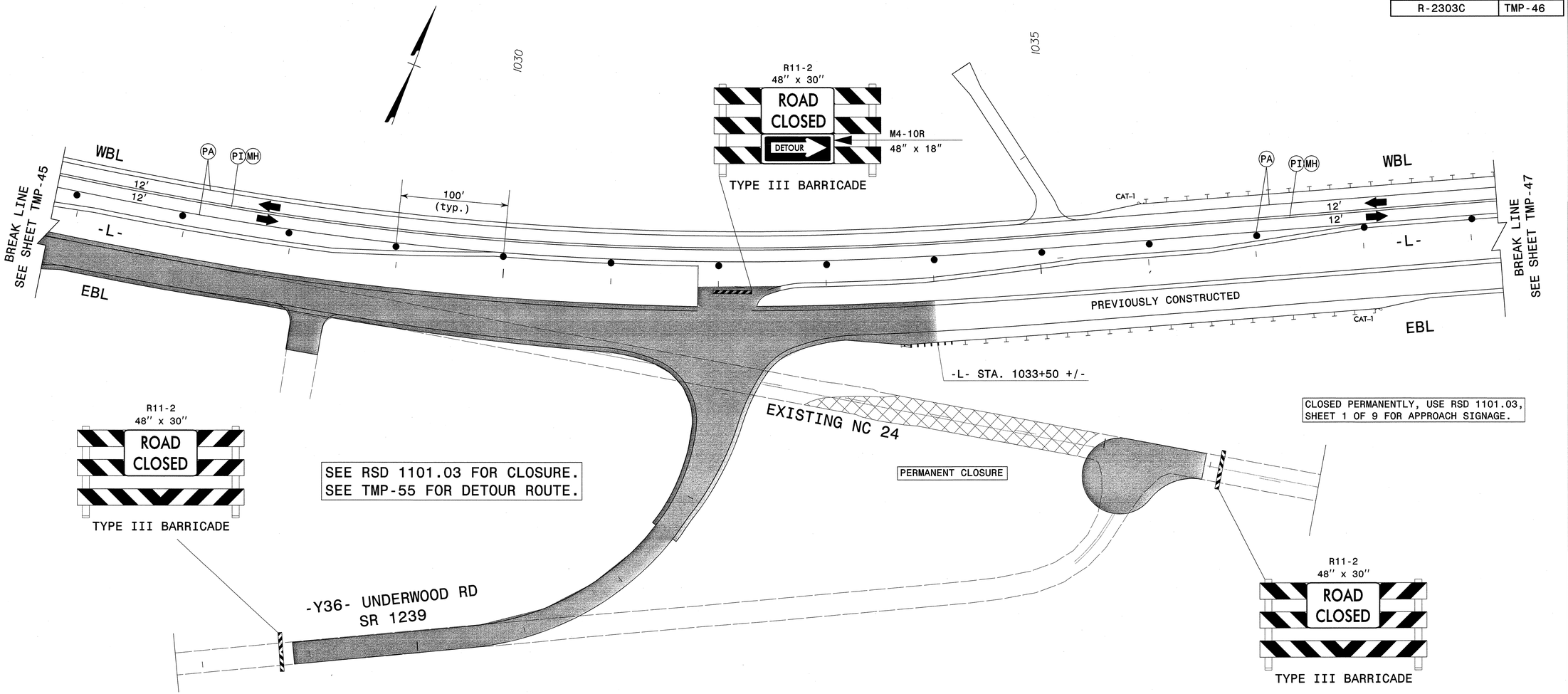
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

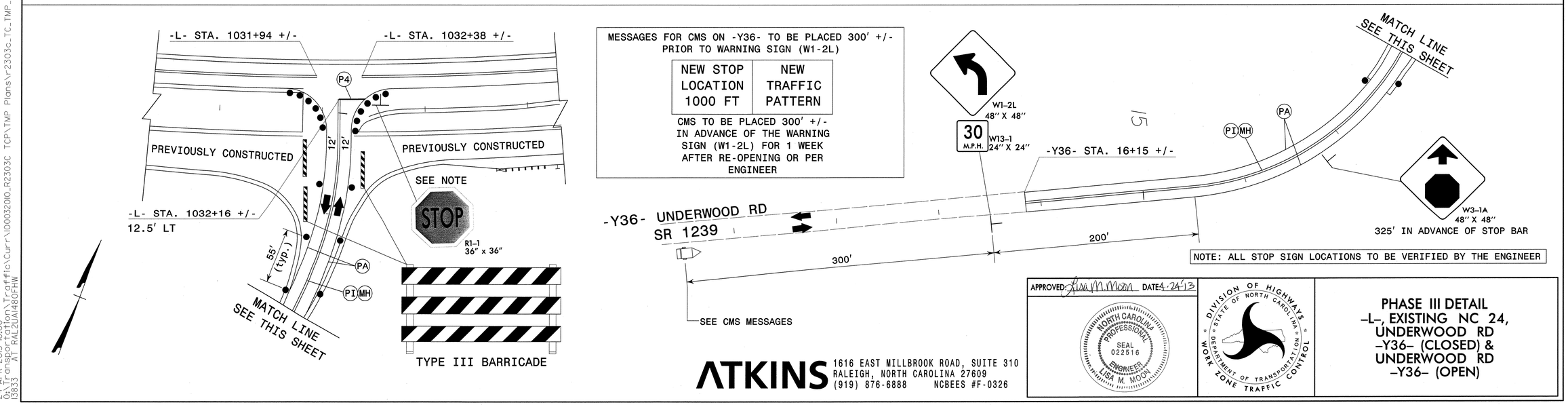
PHASE III DETAIL
-L- NC 24 & -Y35-

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
D:\Transportation\Traffic\Curr\0003200_R2303C TCP\TMP Plans\r2303c_TC_TMP_45.dgn
13833 AT RAL2UAL480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-46





NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

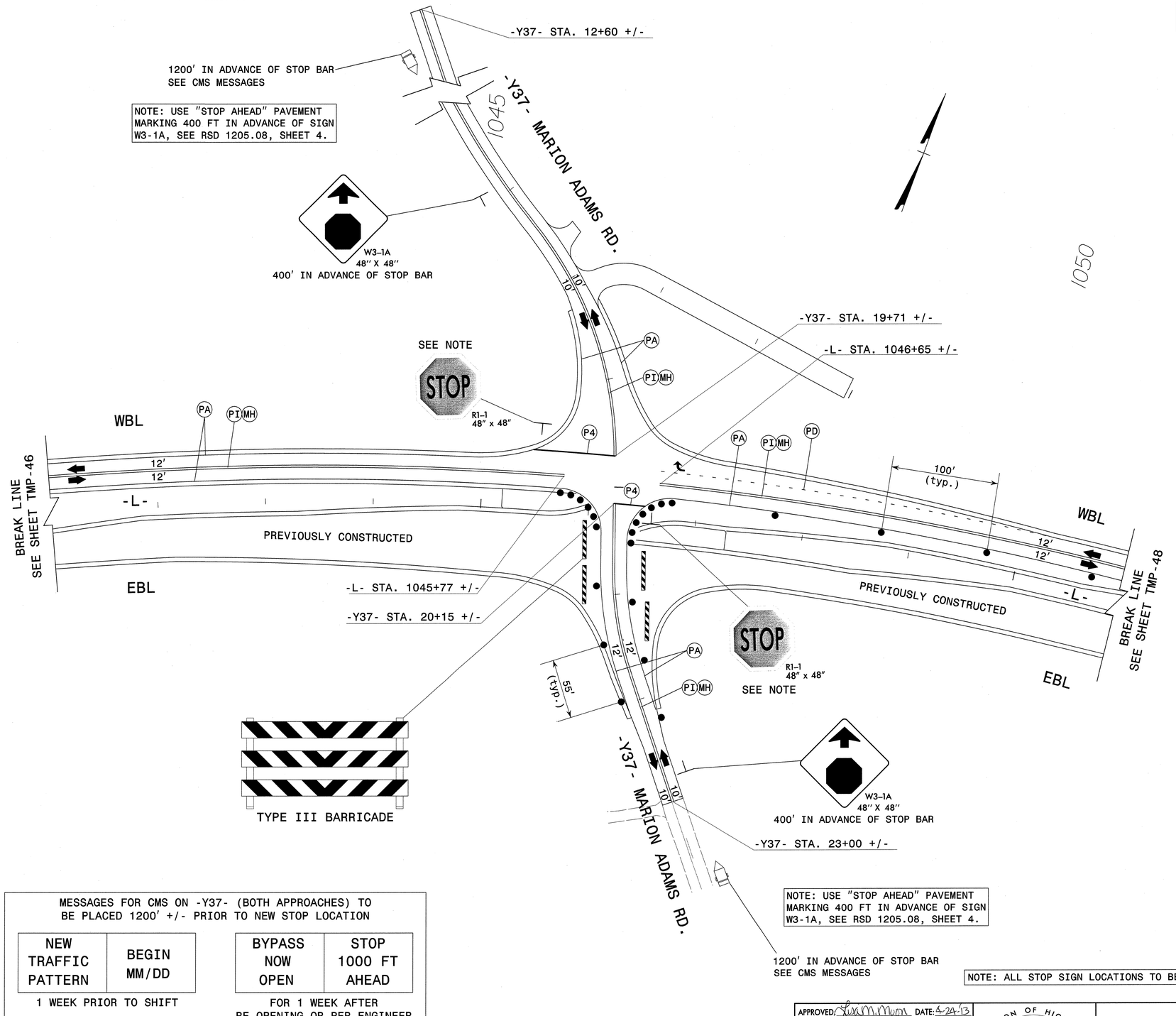
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE III DETAIL
-L-, EXISTING NC 24, UNDERWOOD RD -Y36- (CLOSED) & UNDERWOOD RD -Y36- (OPEN)

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
O:\Transportation\Traffic\Curr\100032010_R2303C TCP\TMP Plans\r2303c_TC_TMP_46.dgn
13833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-47



MESSAGES FOR CMS ON -Y37- (BOTH APPROACHES) TO BE PLACED 1200' +/- PRIOR TO NEW STOP LOCATION

NEW TRAFFIC PATTERN	BEGIN MM/DD
1 WEEK PRIOR TO SHIFT	

BYPASS NOW OPEN	STOP 1000 FT AHEAD
FOR 1 WEEK AFTER RE-OPENING OR PER ENGINEER	

NOTE: USE "STOP AHEAD" PAVEMENT MARKING 400 FT IN ADVANCE OF SIGN W3-1A, SEE RSD 1205.08, SHEET 4.

1200' IN ADVANCE OF STOP BAR
SEE CMS MESSAGES

NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

APPROVED Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

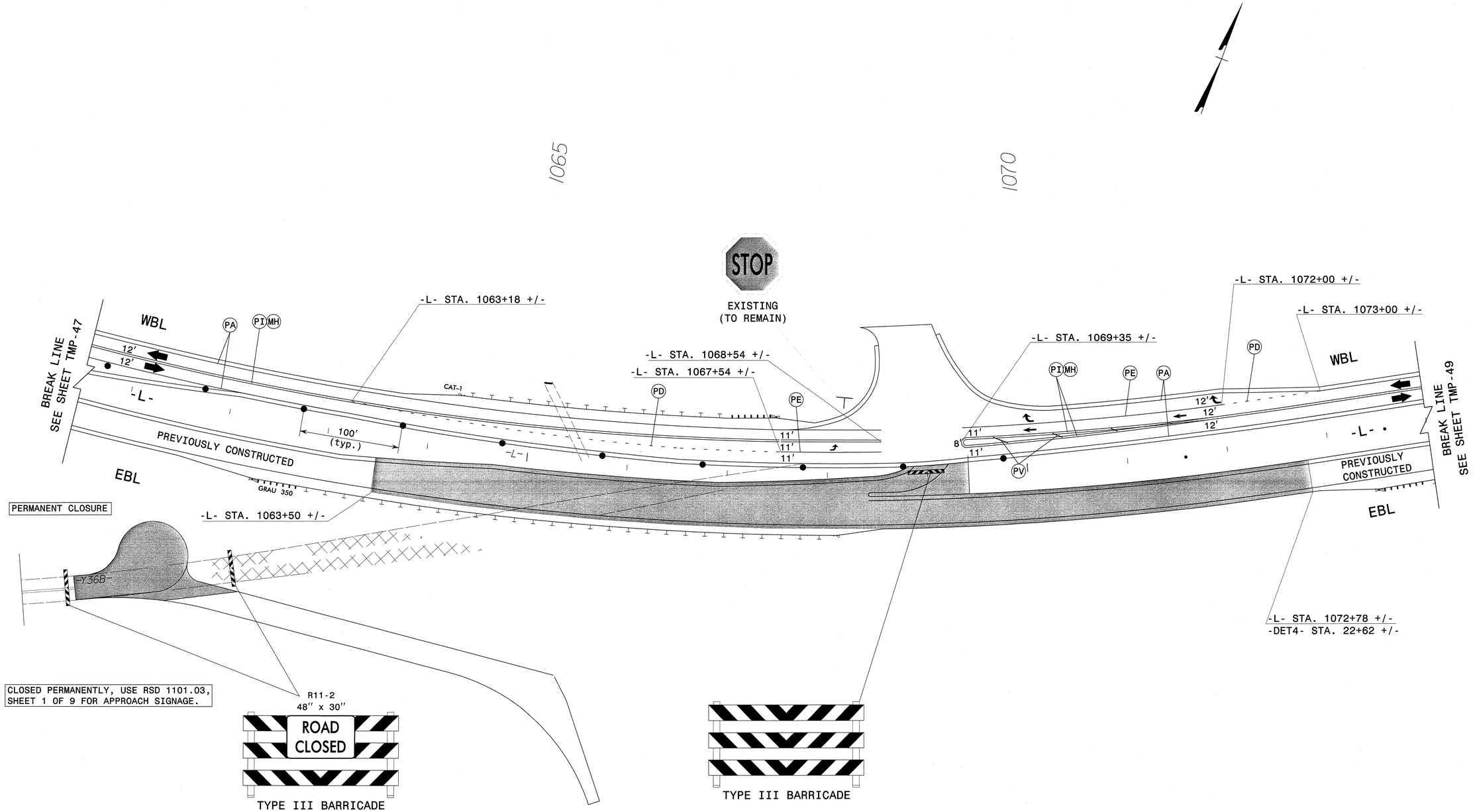
DIVISION OF HIGHWAYS * STATE OF NORTH CAROLINA * DEPARTMENT OF TRANSPORTATION * WORK ZONE TRAFFIC CONTROL

PHASE III DETAIL
–L– &
MARION ADAMS RD –Y37–

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
O:\Transportation\Traffic\Curr\0003200_R2303C TCP\TMP Plans\r2303c_TC_TMP_47.dgn
13833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-48



NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE III DETAIL
-L- & -Y36B-

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
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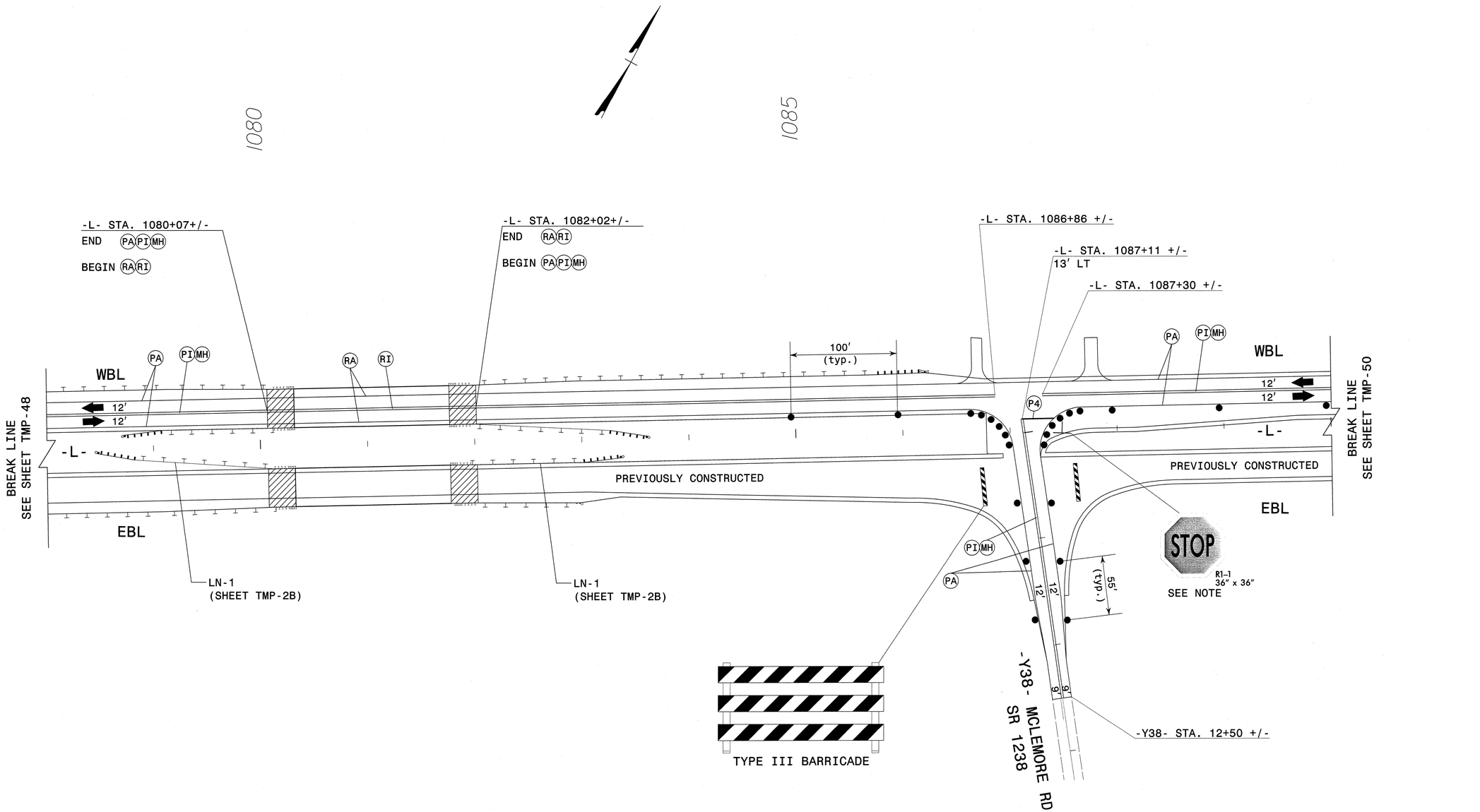
13833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-49



NOTE: ALL STOP SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: Lisa M. Moon DATE: 4-24-13

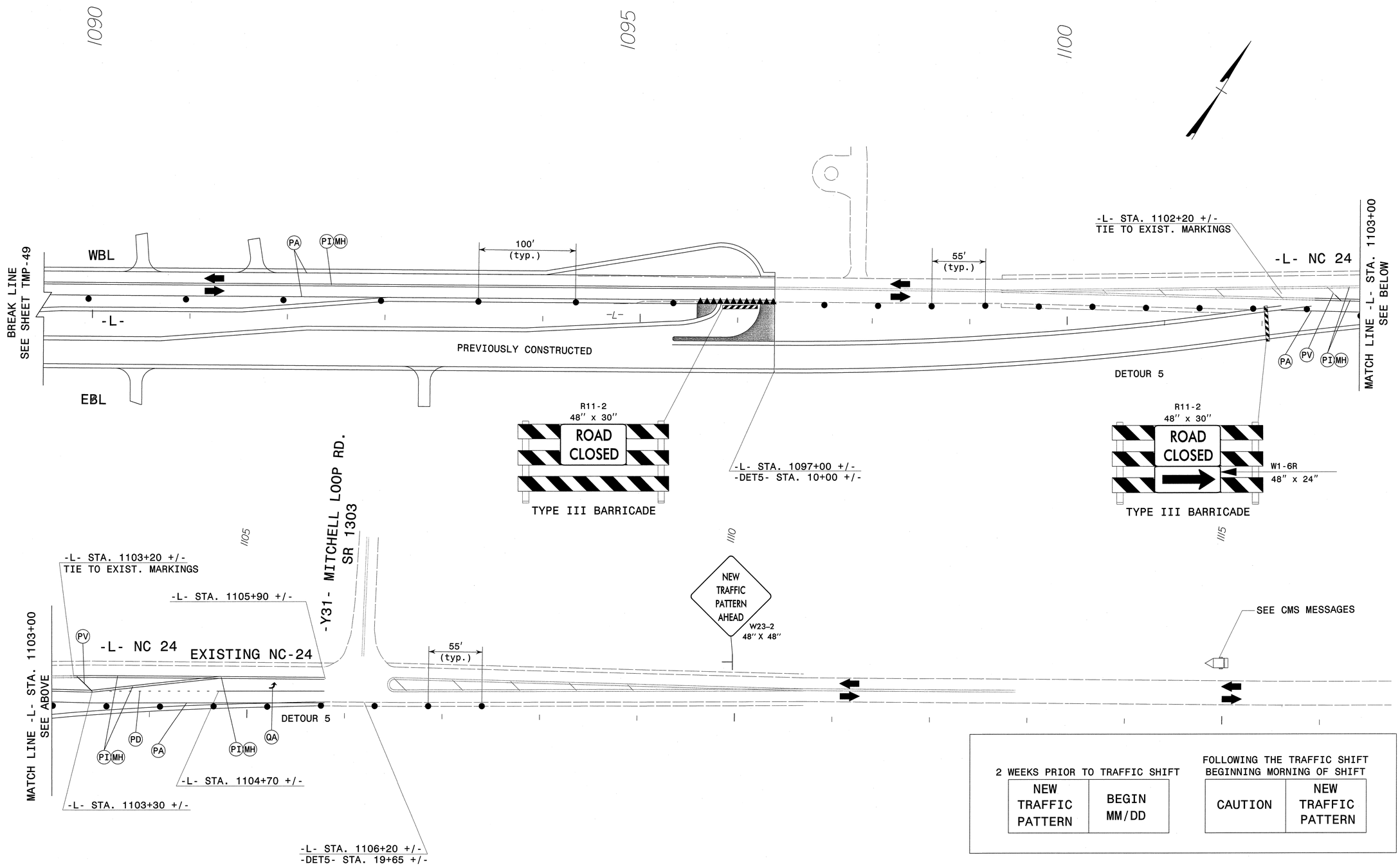
NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

PHASE III DETAIL
–L– NC 24, BRIDGE & MCLEMORE RD –Y38–

24-APR-2013 18:00
D:\Transportation\Traffic\Curr\I0003201_R2303C TCP\TMP Plans\r2303c_TC_TMP_49.dgn
I3833 AT RAL2UAI480FHW

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-50



2 WEEKS PRIOR TO TRAFFIC SHIFT		FOLLOWING THE TRAFFIC SHIFT BEGINNING MORNING OF SHIFT	
NEW TRAFFIC PATTERN	BEGIN MM/DD	CAUTION	NEW TRAFFIC PATTERN

APPROVED: Lisa M Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

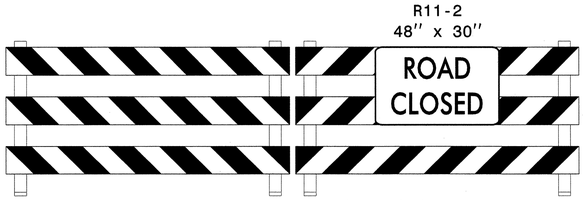
PHASE III DETAIL
–L– NC 24 & DETOUR 5

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 18:00
01\Transportation\Traffic\Curr\I0003201O_R2303C TCP\TMP Plans\r2303c_TC_TMP_50.dgn
I3833 AT RAL2UAI480FHW

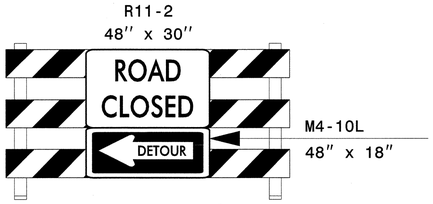
PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-51

A



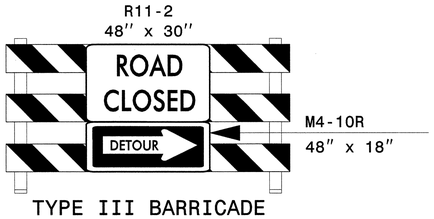
TYPE III BARRICADE(S)

B



TYPE III BARRICADE

C



TYPE III BARRICADE

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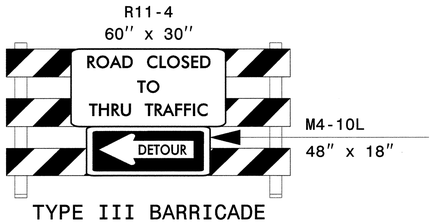
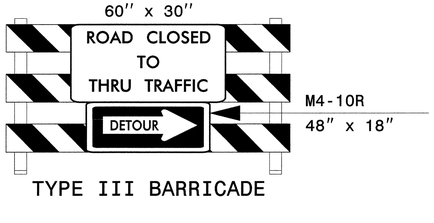


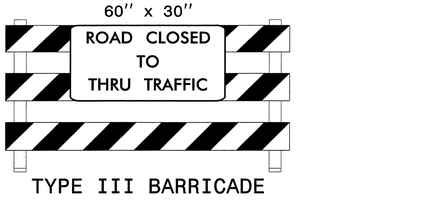
TYPE III BARRICADE

E



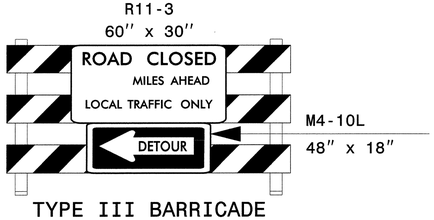
TYPE III BARRICADE

F



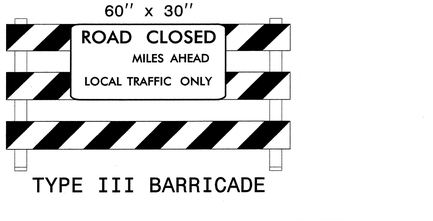
TYPE III BARRICADE

G



TYPE III BARRICADE

H



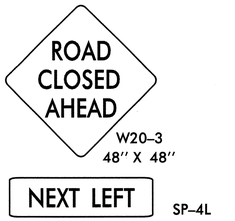
TYPE III BARRICADE

I

J

K

L



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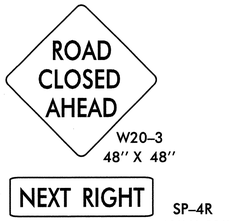
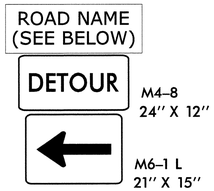


N

O

P

Q



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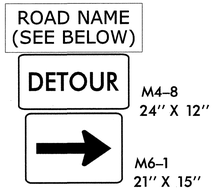

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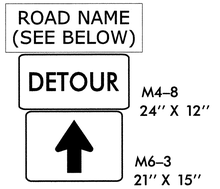

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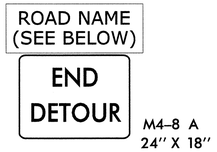
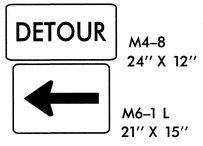


U

V



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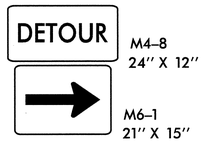
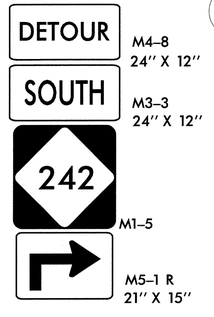


X



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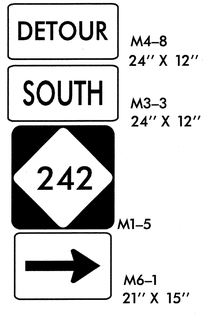

SPECIAL SIGNS FOR USE WITH ALL DETOUR TRAILBLAZING SIGN ASSEMBLIES (SEE TMP-57 THRU TMP-58 FOR SPECIAL DESIGNS)

DETAIL 1 -	UNDERWOOD RD
DETAIL 2 -	MCCLEMORE RD
DETAIL 3 -	DUNN RD
DETAIL 5 -	ROAD NAMES NOT USED
DETAIL 6 -	MARION-AMOS RD
DETAIL 7 -	MARION-AMOS RD
DETAIL 8 -	UNDERWOOD RD
DETAIL 9 -	OLD NC 24

FOR DETAIL 4 - USE M1-5 FOR NC 242

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

OFF SITE DETOUR ROUTE SIGNS AND DEVICES

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 14:42
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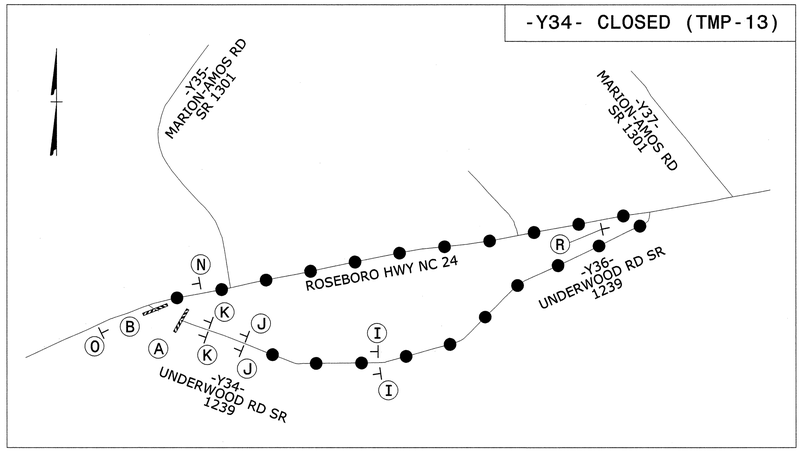
25651 ATKINSGLOBAL\480FFR

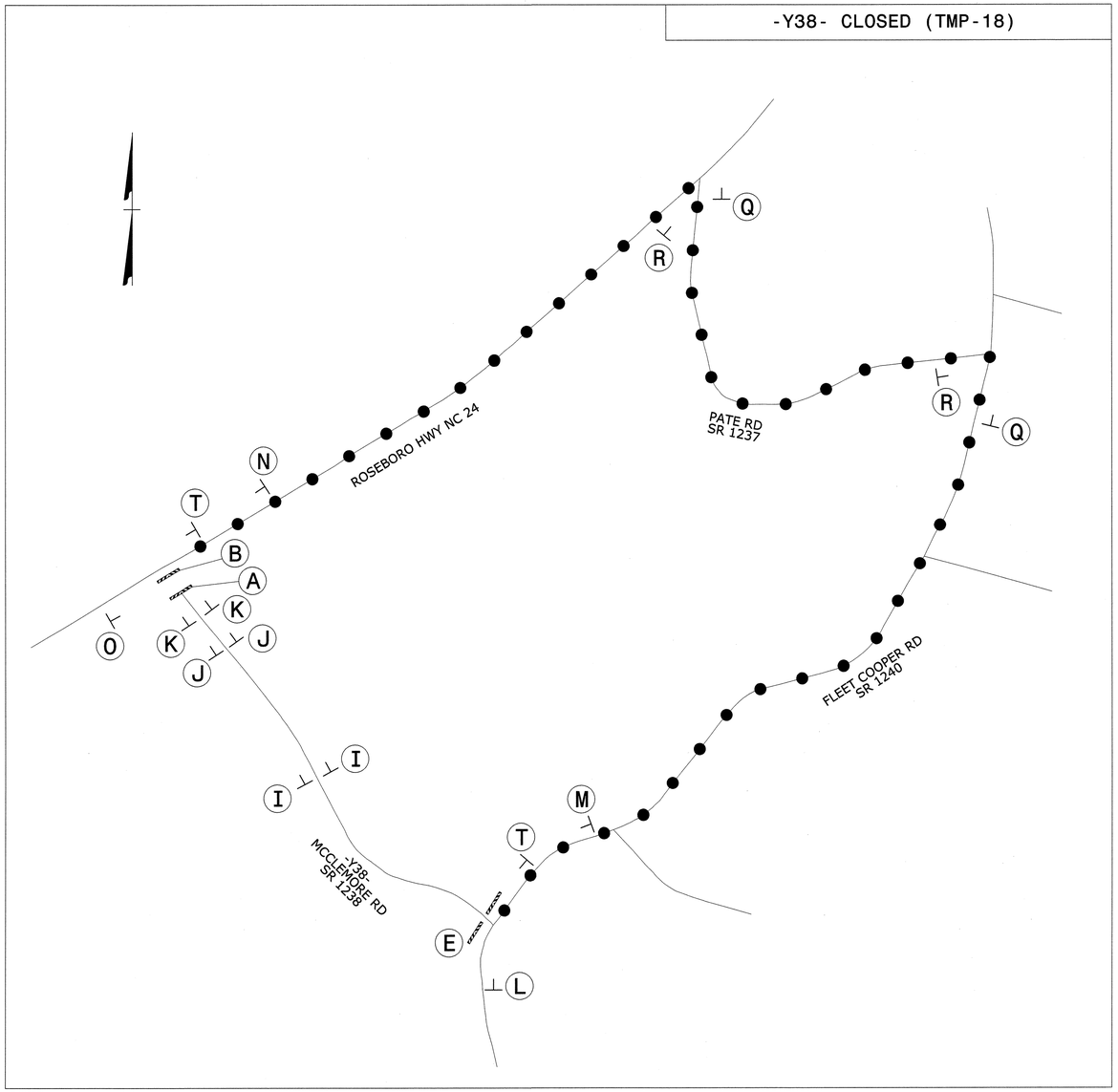
PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-52

DETAIL 1



DETOUR ROUTE

DETAIL 2



DETOUR ROUTE

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

OFF SITE DETOUR ROUTES

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 14:58
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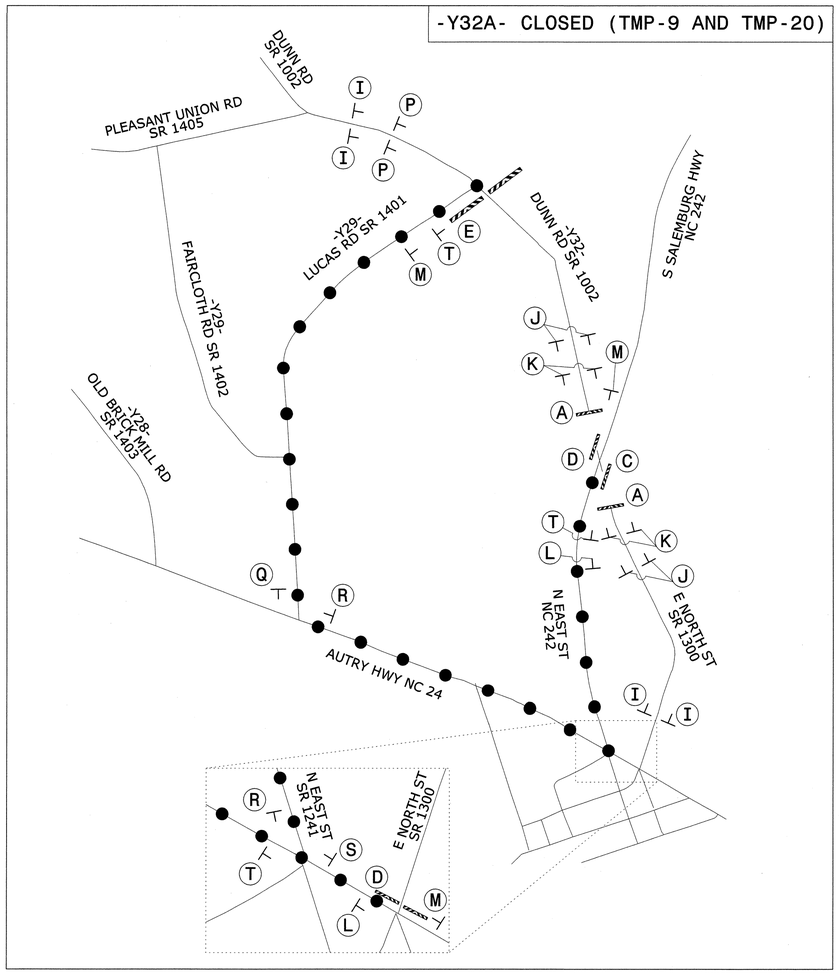
25651 AT RAL2UA1480FFR

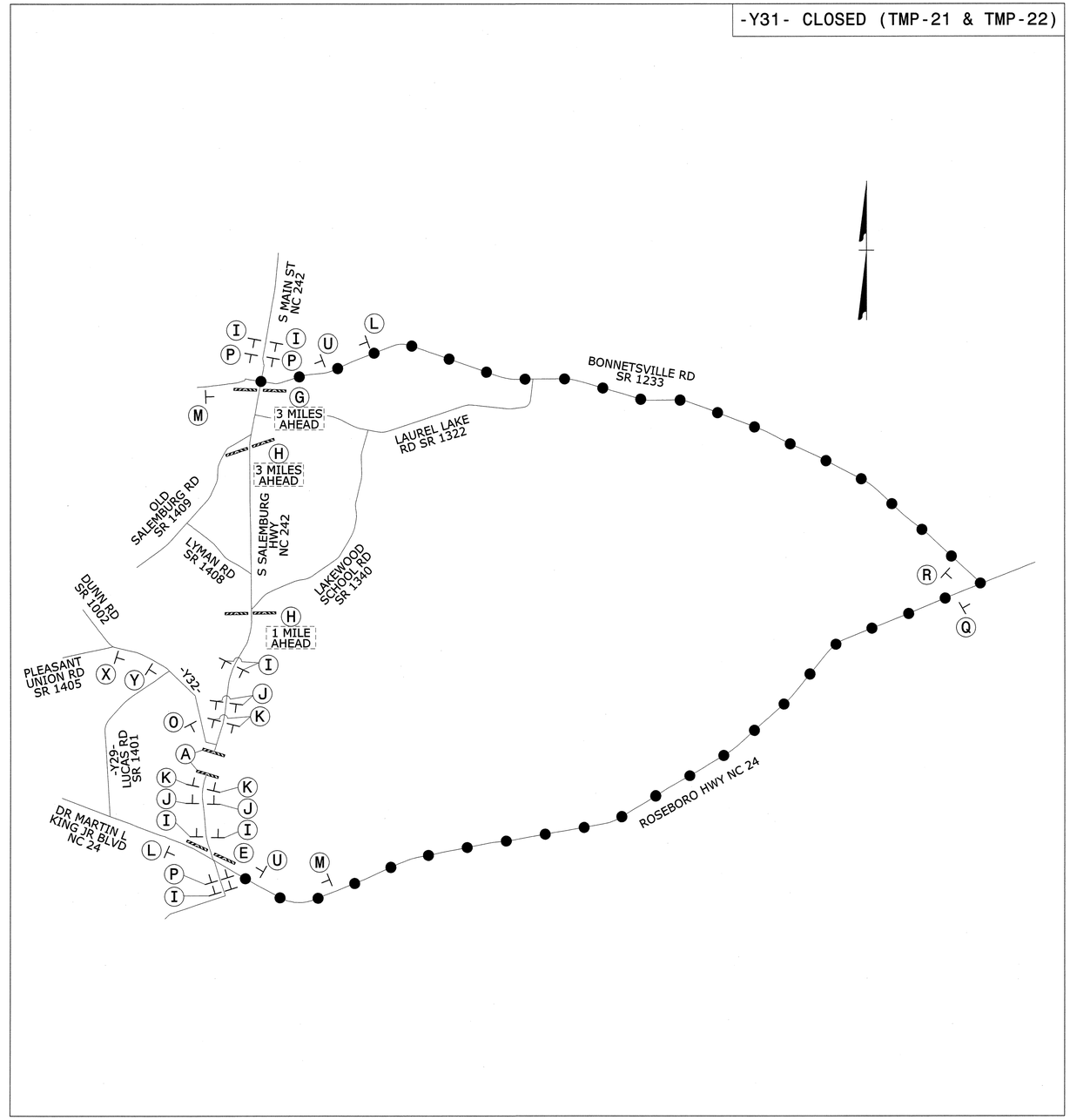
PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-53

DETAIL 3



DETOUR ROUTE

DETAIL 4



DETOUR ROUTE

APPROVED: Lisa M Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

OFF SITE DETOUR ROUTES

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

24-APR-2013 14:58
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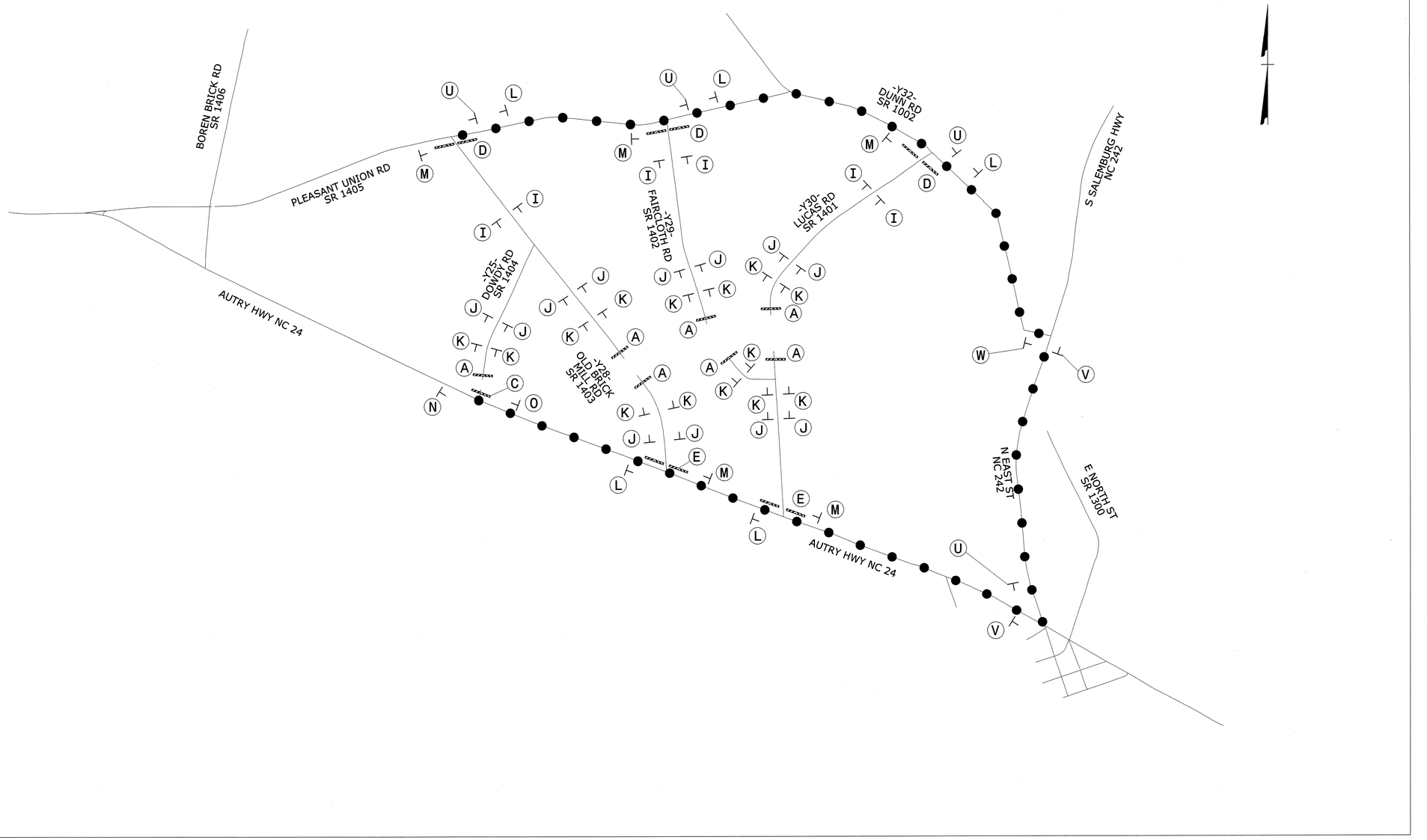
2565I AT RAL2UAI480FFR

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-54

DETAIL 5

-Y25-, -Y28-, -Y29-, AND -Y30- CLOSED (TMP-32, TMP-33 AND TMP-34)



DETOUR ROUTE

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

OFF SITE DETOUR ROUTES

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

25-APR-2013 15:01
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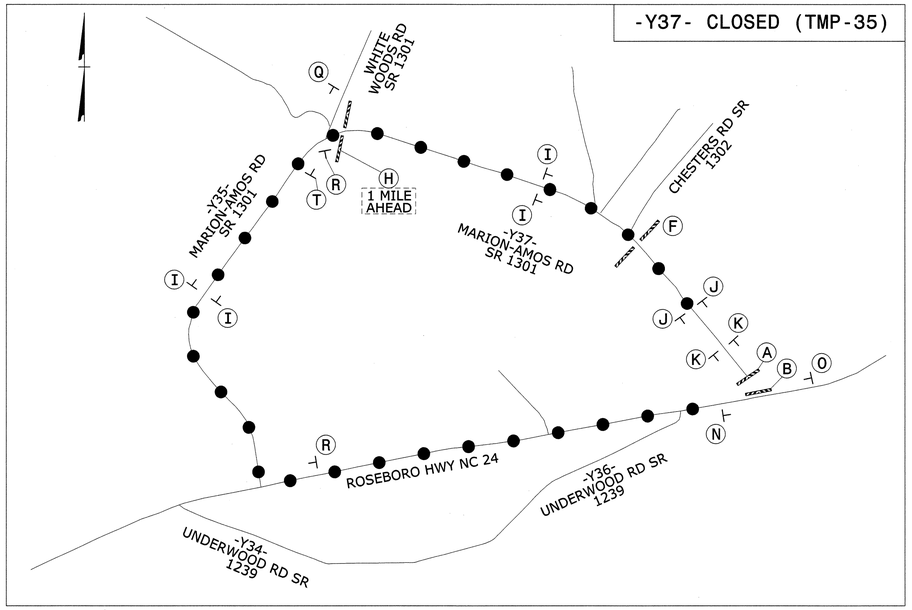
256|1 AT RAL2UA480FFR

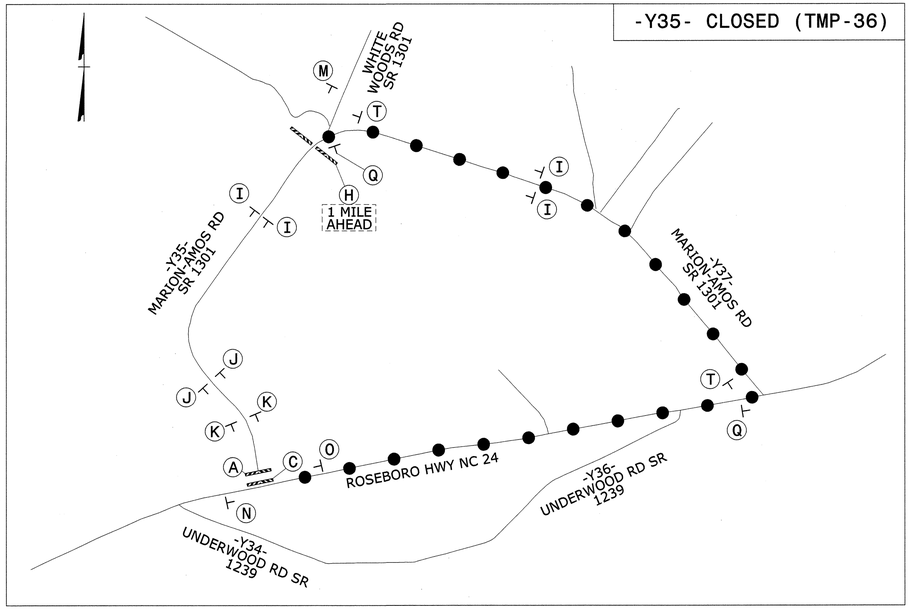
PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-55

DETAIL 6



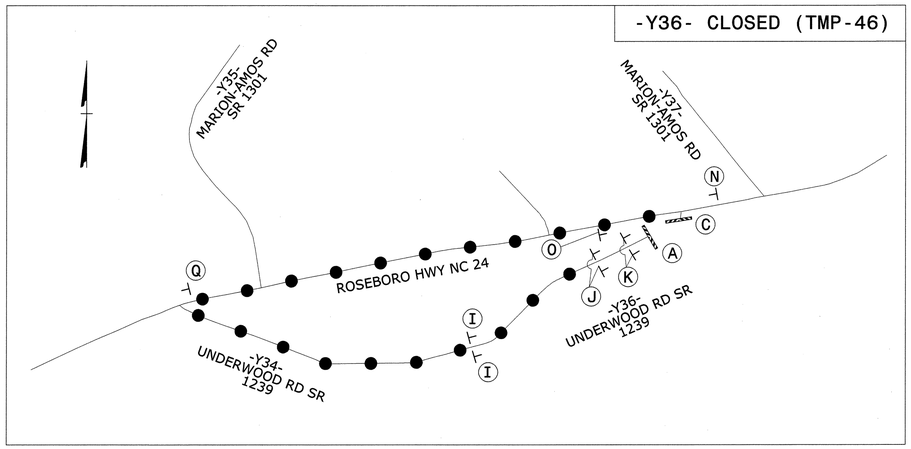
DETOUR ROUTE

DETAIL 7



DETOUR ROUTE

DETAIL 8



DETOUR ROUTE

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

OFF SITE DETOUR ROUTES

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

24-APR-2013 14:58
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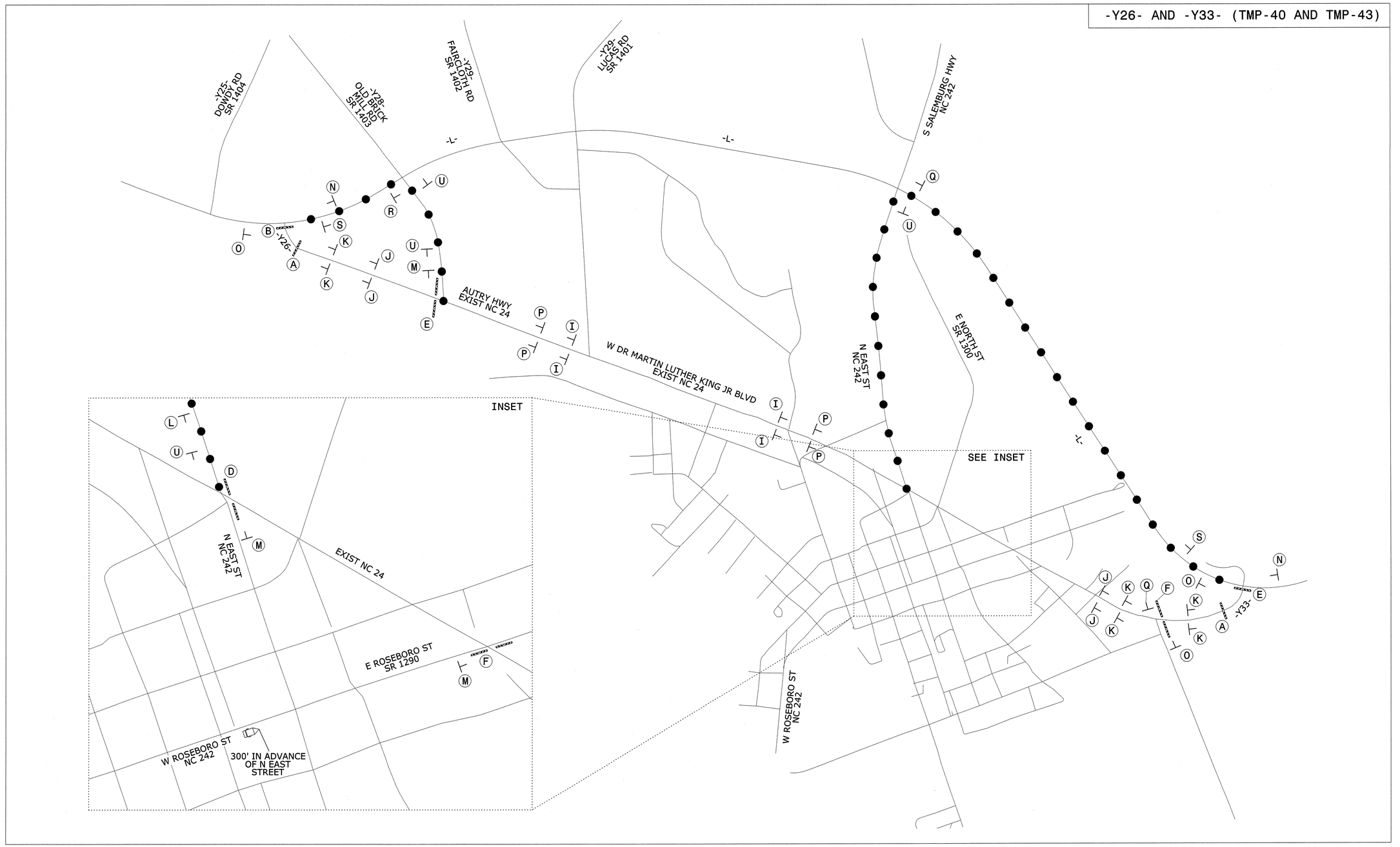
25651 AT RAL2UA1480FFR

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-56

DETAIL 9

-Y26- AND -Y33- (TMP-40 AND TMP-43)



DETOUR ROUTE

MESSAGES FOR CMS ON NC 242 TO BE PLACED 300' +/- PRIOR TO EAST STREET

NC 24 BYPASS	OPENS XX/XX

1 WEEK PRIOR TO SHIFT

NC 24 BYPASS NOW OPEN	LEFT TO NC 24

FOR 1 WEEK AFTER RE-OPENING OR PER ENGINEER

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

OFF SITE DETOUR ROUTES

24-APR-2013 14:58
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25651 AT RAL2UA480FFR

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-57

SIGN NUMBER: SP 05
TYPE: STATIONARY
QUANTITY: SEE PLANS
SIGN WIDTH: 4'-0"
HEIGHT: 1'-6"
TOTAL AREA: 6.0 Sq.Ft.
BORDER TYPE: INSET
RECESS: 0.47"
WIDTH: 0.63"
RADII: 1.5"
NO. Z BARS:
LENGTH:

BACKG COLOR: Fluorescent Orange
COPY COLOR: Black

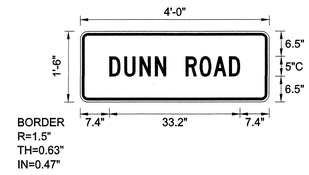
SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be NC GRADE B fluoresent orange retroreflective sheeting.

DESIGN BY: MB TOTH
PROJECT ID: R-2303C
CHECKED BY:
DIV: 03
DATE: Feb 04, 2013



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

													Series/Size Text Length
		D	U	N	N		R	O	A	D			C 2000
	7.4	3.8	3.9	3.9	2.8	5	3.5	3.6	3.9	2.8	7.4		33.2

FILENAME: detour sign designs

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: SP 06
TYPE: STATIONARY
QUANTITY: SEE PLANS
SIGN WIDTH: 4'-0"
HEIGHT: 2'-0"
TOTAL AREA: 8.0 Sq.Ft.
BORDER TYPE: INSET
RECESS: 0.47"
WIDTH: 0.63"
RADII: 1.5"
NO. Z BARS:
LENGTH:

BACKG COLOR: Fluorescent Orange
COPY COLOR: Black

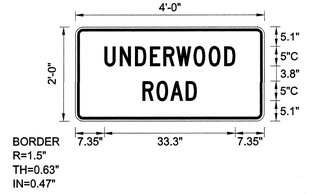
SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be NC GRADE B fluoresent orange retroreflective sheeting.

DESIGN BY: MB TOTH
PROJECT ID: R-2303C
CHECKED BY:
DIV: 03
DATE: Feb 04, 2013



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

													Series/Size Text Length
		U	N	D	E	R	W	O	O	D			C 2000
	7.4	3.9	3.9	3.8	3.4	3.3	4.4	3.9	3.9	2.8	7.4		33.3
		R	O	A	D								C 2000
	17.1	3.6	3.6	3.9	2.8	17.1							13.8

FILENAME: detour sign designs

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: SP 07
TYPE: STATIONARY
QUANTITY: SEE PLANS
SIGN WIDTH: 4'-0"
HEIGHT: 2'-0"
TOTAL AREA: 8.0 Sq.Ft.
BORDER TYPE: INSET
RECESS: 0.47"
WIDTH: 0.63"
RADII: 1.5"
NO. Z BARS:
LENGTH:

BACKG COLOR: Fluorescent Orange
COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be NC GRADE B fluoresent orange retroreflective sheeting.

DESIGN BY: MB TOTH
PROJECT ID: R-2303C
CHECKED BY:
DIV: 03
DATE: Feb 04, 2013

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

													Series/Size Text Length
		M	A	R	I	O	N	-	A	M	O	S	C 2000
	5.3	4	3.9	3.6	1.7	4	3.5	2	3.9	4.3	3.7	2.8	37.5
		R	O	A	D								C 2000
	17.1	3.6	3.6	3.9	2.8	17.1							13.8

FILENAME: detour sign designs

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: SP 08
TYPE: STATIONARY
QUANTITY: SEE PLANS
SIGN WIDTH: 4'-0"
HEIGHT: 2'-0"
TOTAL AREA: 8.0 Sq.Ft.
BORDER TYPE: INSET
RECESS: 0.47"
WIDTH: 0.63"
RADII: 1.5"
NO. Z BARS:
LENGTH:

BACKG COLOR: Fluorescent Orange
COPY COLOR: Black

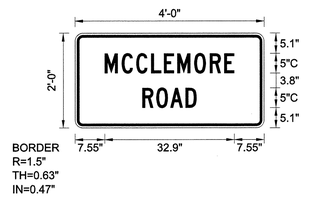
SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be NC GRADE B fluoresent orange retroreflective sheeting.

DESIGN BY: MB TOTH
PROJECT ID: R-2303C
CHECKED BY:
DIV: 03
DATE: Feb 04, 2013



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

													Series/Size Text Length
		M	C	C	L	E	M	O	R	E			C 2000
	7.6	4.3	3.7	3.8	3.3	3.4	4.3	3.9	3.7	2.6	7.6		32.9
		R	O	A	D								C 2000
	17.1	3.6	3.6	3.9	2.8	17.1							13.8

FILENAME: detour sign designs

NORTH CAROLINA D.O.T. SIGN DETAIL

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: Lisa M Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

SPECIAL SIGN DESIGNS (sheet 2 of 3)

24-APR-2013 15:02
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256\| AT RAL2UA1480FFR

PROJ. REFERENCE NO.	SHEET NO.
R-2303C	TMP-58

SIGN NUMBER: SP O9
TYPE: STATIONARY
QUANTITY: SEE PLANS

SIGN WIDTH: 4'-0"
HEIGHT: 1'-6"
TOTAL AREA: 6.0 Sq.Ft.

BORDER TYPE: INSET
RECESS: 0.47"
WIDTH: 0.63"
RADII: 1.5"

NO. Z BARS:
LENGTH:

BACKG COLOR: Fluorescent Orange
COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM

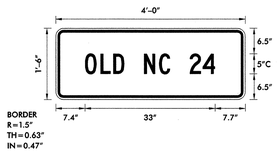
USE NOTES: 1,2

1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be NC GRADE B fluoresent orange retroreflective sheeting.

DESIGN BY: MB TOTH
PROJECT ID: R-2303C

CHECKED BY:
DIV: 03

DATE: Feb 05, 2013



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

	O	L	D		N	C		2	4																			Series/Size Text Length
	7.4	11.4	14.6	17.4	22.4	26.2	29	34	37.3																			C 2000
																												33

FILENAME: detour sign designs

NORTH CAROLINA D.O.T. SIGN DETAIL

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: Lisa M. Moon DATE: 4-24-13

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

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

SPECIAL SIGN DESIGNS
(sheet 3 of 3)

24-APR-2013 15:02
01\Transportation\Traffic\Curr\I0003201O_R2303C TCP\Ref\detour sign designs.dgn
25651 AT RAL2UA480FFR