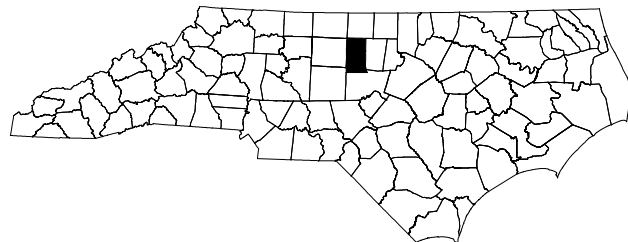


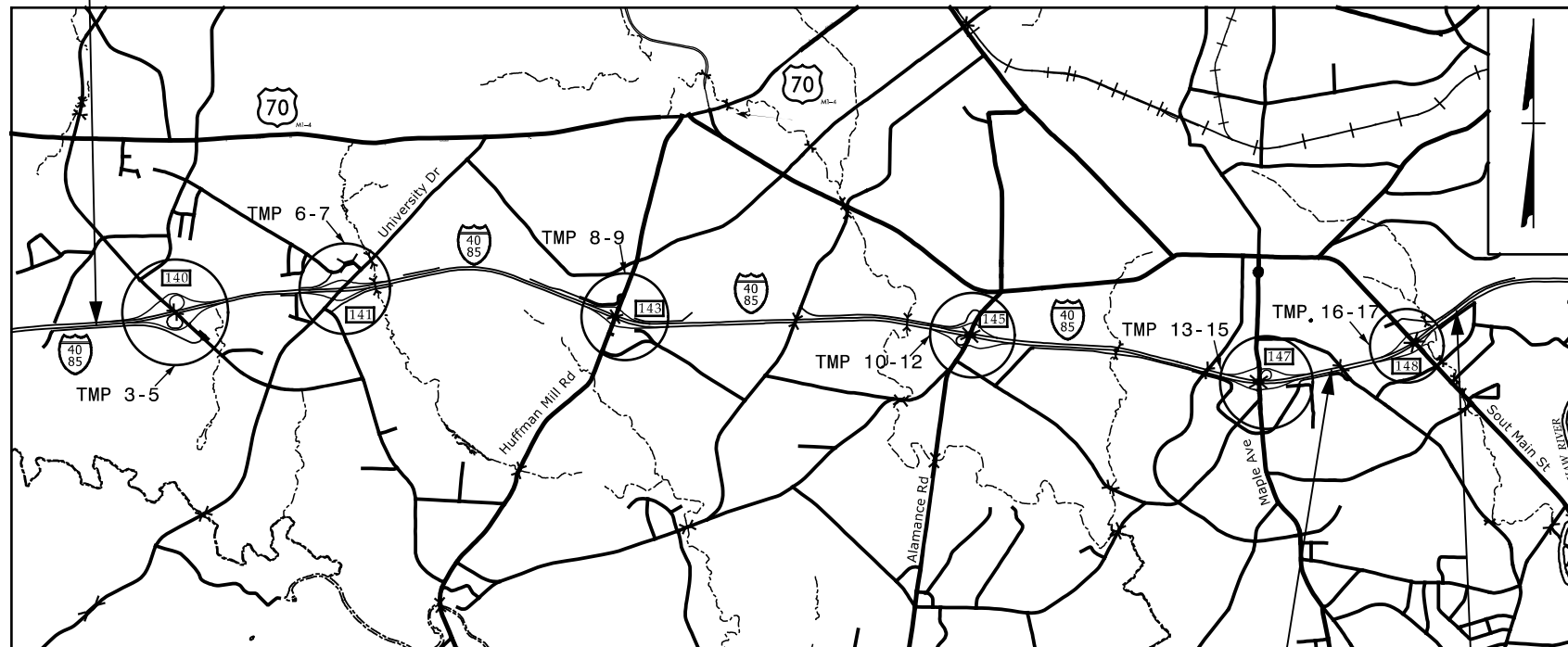
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**ALAMANCE COUNTY**



BEGIN  
I-5309



END I-5309  
BEGIN I-5836  
END I-5836

**LOCATION: I-40/I-85 FROM 0.5 MILES WEST OF UNIVERSITY DRIVE  
TO 0.2 MILES EAST OF NC 54 IN GRAHAM**

**TYPE OF WORK: PAVEMENT REHABILITATION**

**INDEX OF SHEETS**

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES)
TMP-1C	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND PHASING)
TMP-2	SIGN LEGEND
TMP-3-5	EXIT 140 UNIVERSITY DRIVE DETOUR
TMP-6-7	EXIT 141 HUFFMAN MILL ROAD DETOUR
TMP-8-9	EXIT 143 ALAMANCE ROAD DETOUR
TMP-10-12	EXIT 145 MAPLE AVENUE DETOUR
TMP-13-15	EXIT 147 SOUTH MAIN STREET DETOUR
TMP-16-17	EXIT 148 NC 54 DETOUR
TMP-18	LANE CLOSURE TYPICAL
TMP-19	RAMP CLOSURE TYPICAL

SHEET NO.  
TMP-1

**I-5309/I-5836**

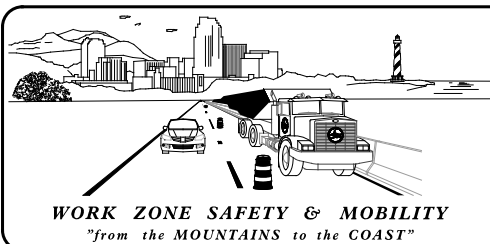
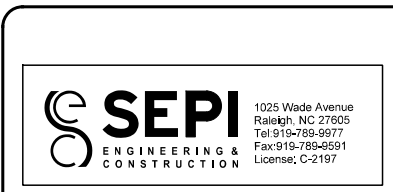
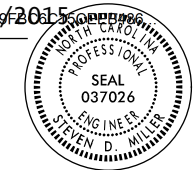
**TIP PROJECT:**

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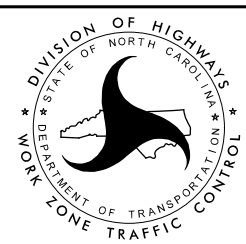
APPROVED: Steve Miller  
DATE: 12/7/2015

SEAL



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

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER  
D. W. BISSETTE, P.E. TRAFFIC CONTROL PROJECT ENGINEER  
M. STEELMAN TRAFFIC CONTROL PROJECT DESIGN ENGINEER  
TRAFFIC CONTROL DESIGN ENGINEER



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# ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES - TYPE III
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS

# LEGEND

## GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)

- WORK AREA
- REMOVAL
- USER DEFINED (IF NEEDED)
- USER DEFINED (IF NEEDED)

## SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

## PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

## TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

## TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

## PAVEMENT MARKERS

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

## PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

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**SEPI**  
ENGINEERING & CONSTRUCTION  
1025 Wade Avenue  
Raleigh, NC 27605  
Tel: 919-789-9977  
Fax: 919-789-9591  
License: C-2197

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APPROVED: *Steve Miller*  
DATE: 12/7/2015 12:00:00 PM  
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ROADWAY STANDARD DRAWINGS & LEGEND

## 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 ONE TRAVEL LANE IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-----------	---------------------------

(FOR ALL ASPHALT REHABILITATION OPERATIONS)  
I-40/I-85 AND MULTI-LANE RAMPS AND LOOPS MONDAY TO SUNDAY FROM 6:00 AM TO 8:00 PM

(FOR ALL CONCRETE BRIDGE REHABILITATION OPERATIONS)  
I-40/I-85 MONDAY THRU FRIDAY FROM 6:00 A.M. TO 8:00 P.M. SATURDAY AND SUNDAY FROM 10:00 A.M. TO 8:00 P.M.

- B) DO NOT CLOSE OR NARROW TWO TRAVEL LANES IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-----------	---------------------------

(FOR ALL ASPHALT REHABILITATION OPERATIONS)  
I-40/I-85 MONDAY TO SUNDAY 6:00 AM TO 10:00 PM

(FOR ALL CONCRETE BRIDGE REHABILITATION OPERATIONS)  
I-40/I-85 MONDAY THRU FRIDAY FROM 6:00 A.M. TO 10:00 P.M. SATURDAY AND SUNDAY FROM 10:00 A.M. TO 10:00 P.M.

- C) DO NOT CLOSE OR NARROW THREE TRAVEL LANES IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-----------	---------------------------

(FOR ALL ASPHALT REHABILITATION OPERATIONS)  
I-40/I-85 MONDAY TO SUNDAY FROM 6:00 A.M. TO 12:00 A.M. (MIDNIGHT)

(FOR ALL CONCRETE BRIDGE REHABILITATION OPERATIONS)  
I-40/I-85 MONDAY THRU FRIDAY FROM 6:00 A.M. TO 12:00 A.M. (MIDNIGHT) SATURDAY AND SUNDAY FROM 10:00 A.M. TO 12:00 A.M. (MIDNIGHT)

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

ROAD NAME	HOLIDAY
I-40/I-85	

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.

5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 8:00 P.M. TUESDAY.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

- E) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-40/I-85 RAMPS AND LOOPS	MONDAY TO SUNDAY 6:00 AM TO 12:00 MIDNIGHT

### LANE AND SHOULDER CLOSURE REQUIREMENTS

- F) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

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

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

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

- J) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

### PAVEMENT EDGE DROP OFF REQUIREMENTS

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

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

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

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

- L) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 1000 FEET IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

- N) INSTALL ADVANCE WORK ZONE WARNING SIGNS NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

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

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

- P) 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.

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

### TRAFFIC CONTROL DEVICES

- R) 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.

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

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

### PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

- V) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

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

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

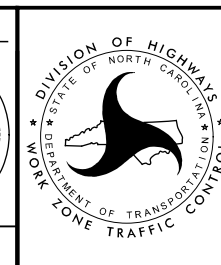
### MISCELLANEOUS

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

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APPROVED: *Steve Miller*  
DATE: 3/3/2016  
SEAL



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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 ONE TRAVEL LANE IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
	MONDAY TO SUNDAY
I-40/I-85	6:00 AM TO 8:00 PM

BRIDGE WORK	10:00 AM SUNDAY TO 8:00 PM FRIDAY 10:00 AM SATURDAY TO 8:00 PM SATURDAY
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B) DO NOT CLOSE OR NARROW TWO TRAVEL LANES IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
	MONDAY TO SUNDAY
I-40/I-85	6:00 AM TO 10:00 PM

BRIDGE WORK	10:00 AM SUNDAY TO 10:00 PM FRIDAY 10:00 AM SATURDAY TO 10:00 PM SATURDAY
-------------	--

C) DO NOT CLOSE OR NARROW THREE TRAVEL LANES IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
	MONDAY TO SUNDAY
I-40/I-85	6:00 AM TO 12:00 AM (MIDNIGHT)

BRIDGE WORK	10:00 AM SUNDAY TO 12:00 AM (MIDNIGHT) FRIDAY 10:00 AM SATURDAY TO 12:00 AM (MIDNIGHT) SATURDAY
-------------	--

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

ROAD NAME	
I-40/I-85	

HOLIDAY

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

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

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7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

E) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
	MONDAY TO SUNDAY
I-40/I-85 RAMPS AND LOOPS	6:00 AM TO 12:00 MIDNIGHT

### LANE AND SHOULDER CLOSURE REQUIREMENTS

F) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

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

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

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

J) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

### PAVEMENT EDGE DROP OFF REQUIREMENTS

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

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

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

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

L) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 1000 FEET IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

N) INSTALL ADVANCE WORK ZONE WARNING SIGNS NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

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

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

P) 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.

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

### TRAFFIC CONTROL DEVICES

R) 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.

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

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

### PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

V) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

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

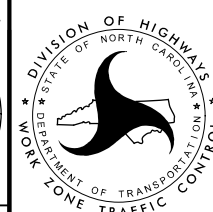
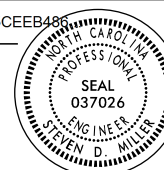
X) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

### MISCELLANEOUS

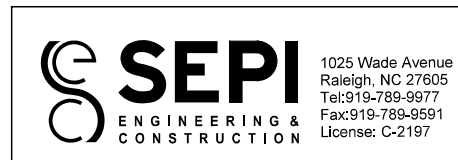
Y) LAW ENFORCEMENT SHALL BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

DocuSigned by:

APPROVED: *Steve Miller*  
DATE: 12/7/2015  
SEAL



## TRANSPORTATION OPERATIONS PLAN



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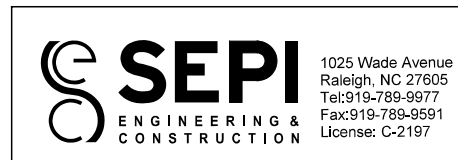
### ***MANAGEMENT STRATEGIES***

- MAINTAIN I-40/85 TRAFFIC THROUGH LANE CLOSURES
- SINGLE LANE RAMPS AND LOOPS MAY BE CLOSED AND TRAFFIC DETOURED OFF SITE
- PROVIDE THIRTY (30) CALENDAR DAYS NOTICE TO THE ENGINEER, ALAMANCE COUNTY EMERGENCY SERVICES, AND ALAMANCE COUNTY SCHOOL OFFICIALS PRIOR TO ROAD CLOSURE

### ***PHASING***

- STEP 1: USING RSD 1101.01 SHEET 1 OF 3, PLACE ADVANCE WARNING SIGNS ALONG I-40/85 AND RAMPS WHERE NECESSARY.
- STEP 2: NOTE: THE CONTRACTOR MUST COMPLETE THE BRIDGE REHABILITATION IN EACH DIRECTION BEFORE PROCEEDING WITH THE PAVEMENT REHABILITATION IN THAT DIRECTION. USING RSD 1101.02 SHEETS 4, 8, 9, AND 10 OF 15, COMPLETE PAVEMENT REHABILITATION OPERATIONS FOR THE ESTABLISHED WORK AREA, PLACING TEMPORARY PAVEMENT MARKINGS ON INTERIM LAYERS OF PAVEMENT AS NECESSARY. PLACE FINAL PAVEMENT MARKINGS ON THE FINAL SURFACE LAYER. INTERCHANGE RAMPS AND LOOPS MAY BE CLOSED USING RSD 1101.03 SHEETS 1 AND 2 OF 9. SEE TMP-2 THROUGH TMP-19 FOR ADDITIONAL CLOSURE SIGNS AND THE OFF SITE DETOUR FOR EACH RAMP. USE RSD 1101.02 SHEET 4 OF 15 TO CLOSE AUXILLARY LANES WHEN THE DOWNSTREAM RAMP IS CLOSED. RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL NOT CLOSE ANY RAMP OR LANE OF A RAMP THAT IS INCLUDED AS PART OF AN ACTIVE DETOUR.
- STEP 3: REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES.

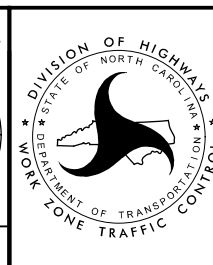
3/3/2016 3:17:00 PM G:\T\aff\to\TRIS\022\00 I-5309 & I-5836 TMP\TMP\I-5309\_5836 TMP-1C.dgn



DocuSigned by:  
*Steve Miller*  
APPROVED: *Steve Miller*  
DATE: 3/3/2016

SEAL

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**TRANSPORTATION OPERATIONS PLAN**

### ***MANAGEMENT STRATEGIES***

- MAINTAIN I-40/85 TRAFFIC THROUGH LANE CLOSURES
- SINGLE LANE RAMPS AND LOOPS MAY BE CLOSED AND TRAFFIC DETOURED OFF SITE
- PROVIDE THIRTY (30) CALENDAR DAYS NOTICE TO THE ENGINEER, ALAMANCE COUNTY EMERGENCY SERVICES, AND ALAMANCE COUNTY SCHOOL OFFICIALS PRIOR TO ROAD CLOSURE

### ***PHASING***

- STEP 1: USING RSD 1101.01 SHEET 1 OF 3, PLACE ADVANCE WARNING SIGNS ALONG I-40/85 AND RAMPS WHERE NECESSARY.
- STEP 2: USING RSD 1101.02 SHEETS 4, 8, 9, AND 10 OF 15, COMPLETE PAVEMENT REHABILITATION OPERATIONS FOR THE ESTABLISHED WORK AREA, PLACING TEMPORARY PAVEMENT MARKINGS ON INTERIM LAYERS OF PAVEMENT AS NECESSARY. PLACE FINAL PAVEMENT MARKINGS ON THE FINAL SURFACE LAYER. INTERCHANGE RAMPS AND LOOPS MAY BE CLOSED USING RSD 1101.03 SHEETS 1 AND 2 OF 9. SEE TMP-2 THROUGH TMP-19 FOR ADDITIONAL CLOSURE SIGNS AND THE OFF SITE DETOUR FOR EACH RAMP. USE RSD 1101.02 SHEET 4 OF 15 TO CLOSE AUXILLARY LANES WHEN THE DOWNSTREAM RAMP IS CLOSED. RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL NOT CLOSE ANY RAMP OR LANE OF A RAMP THAT IS INCLUDED AS PART OF AN ACTIVE DETOUR.
- STEP 3: REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES.

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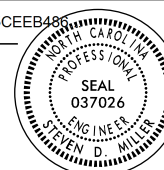


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License: C-2197

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*Steve Miller*

APPROVED: *Steve Miller*  
DATE: 12/7/2015 12:07:00 PM

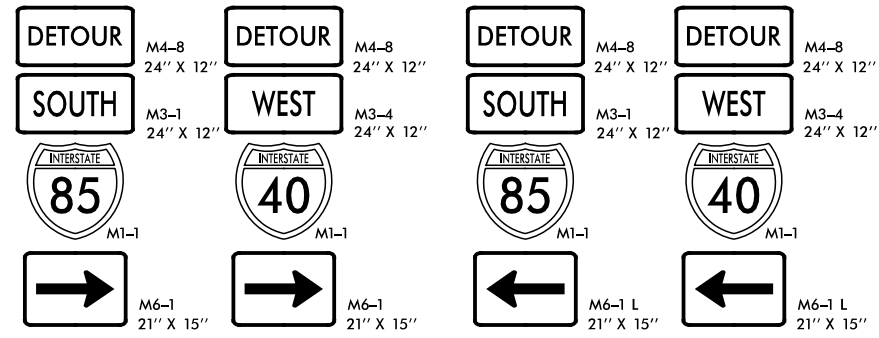
SEAL



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**TRANSPORTATION OPERATIONS PLAN**

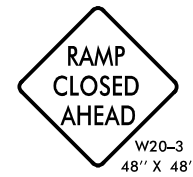


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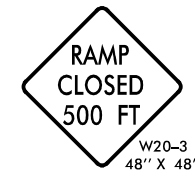
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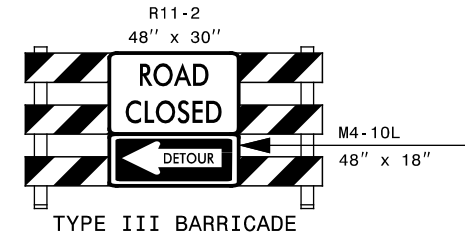
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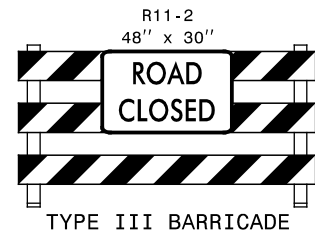
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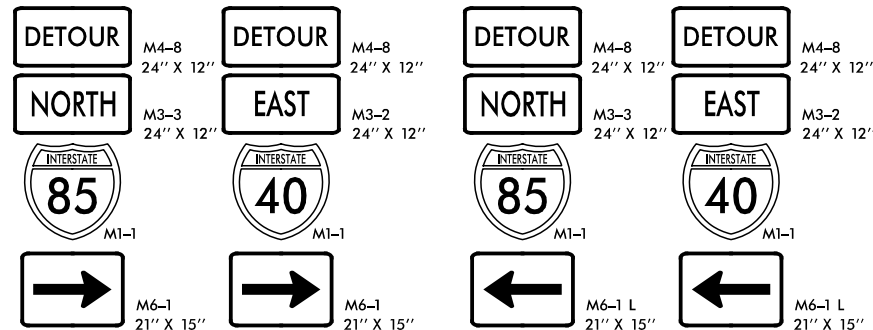
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I



J



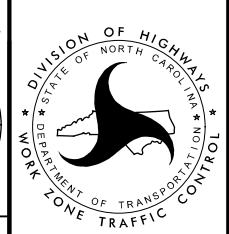
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12/1/2015 10:11:00 AM G:\Tr\aff\I-5309 & I-5836 TMP\TMP-I-5309\_5836 TMP-2.dgn

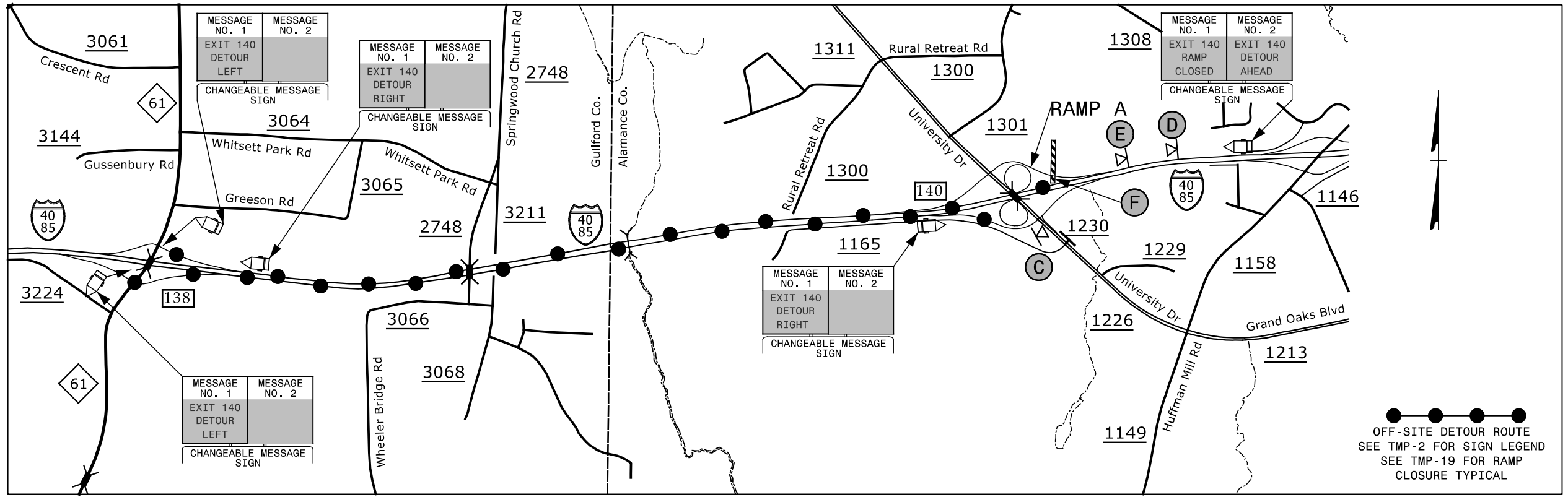
**SEPI**  
ENGINEERING & CONSTRUCTION  
1025 Wade Avenue  
Raleigh, NC 27605  
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Fax: 919-789-9591  
License: C-2197

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*Steve Miller*  
APPROVED: *Steve Miller*  
DATE: 12/7/2015  
SEAL  
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UNLESS ALL SIGNATURES COMPLETED

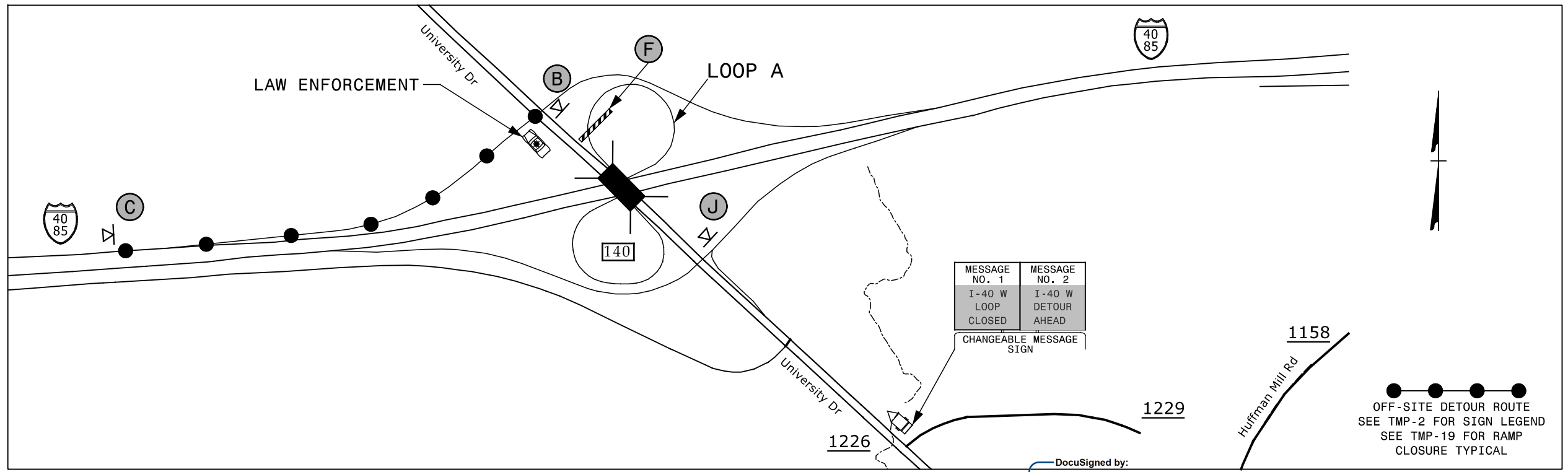


**SIGN LEGEND**

### EXIT 140 RAMP A - I-40/I-85



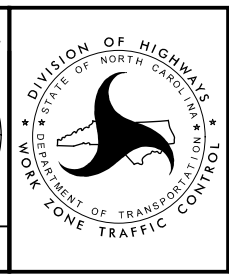
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12/7/2015 12:07:00 PM G:\Tr\aff\I-5309 & I-5836 TMP\TMP-I-5309\_5836 TMP-3.dgn

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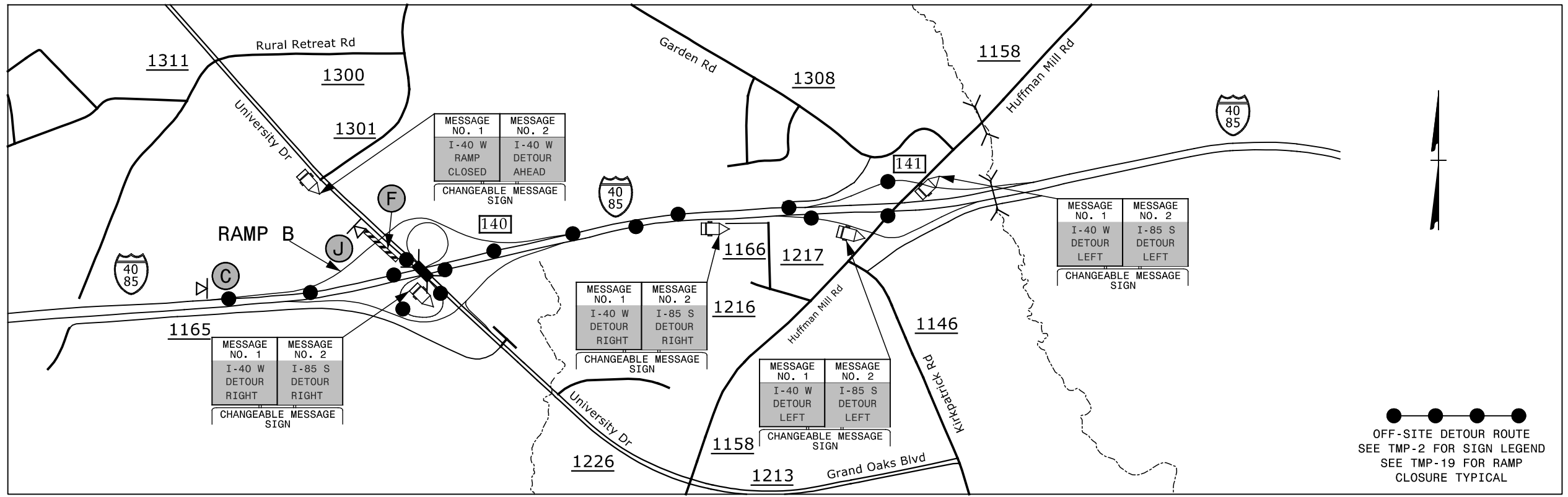
APPROVED: *Steve Miller*  
 DATE: 12/7/2015  
 SEAL  
 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



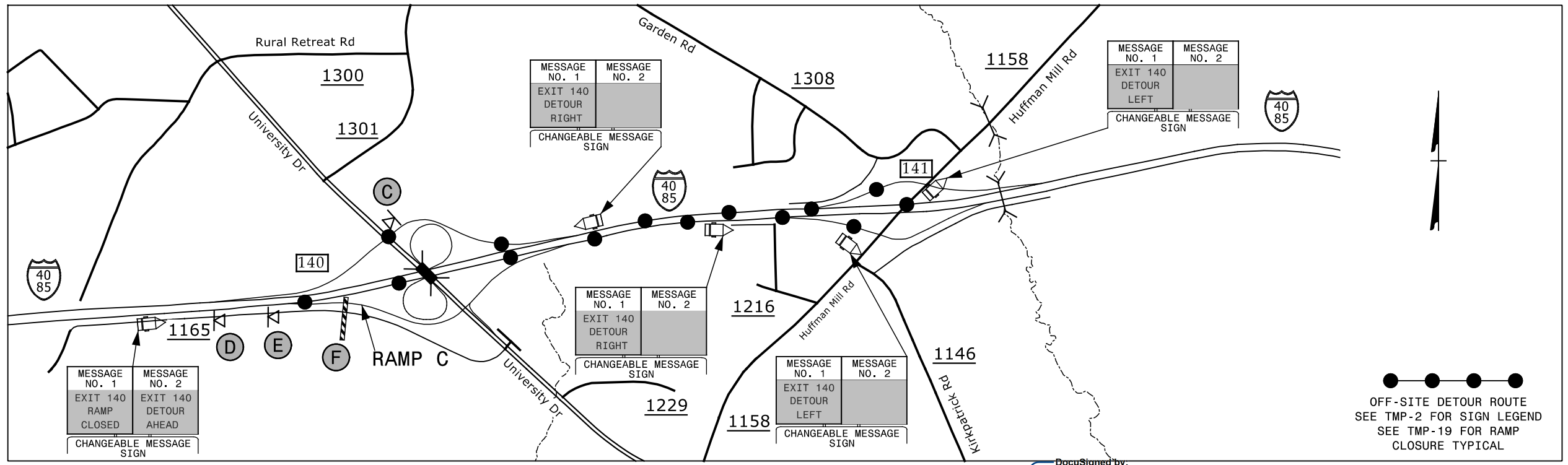
**EXIT 140 UNIVERSITY DRIVE DETOUR**



### EXIT 140 RAMP B - I-40/I-85



### EXIT 140 RAMP C - I-40/I-85



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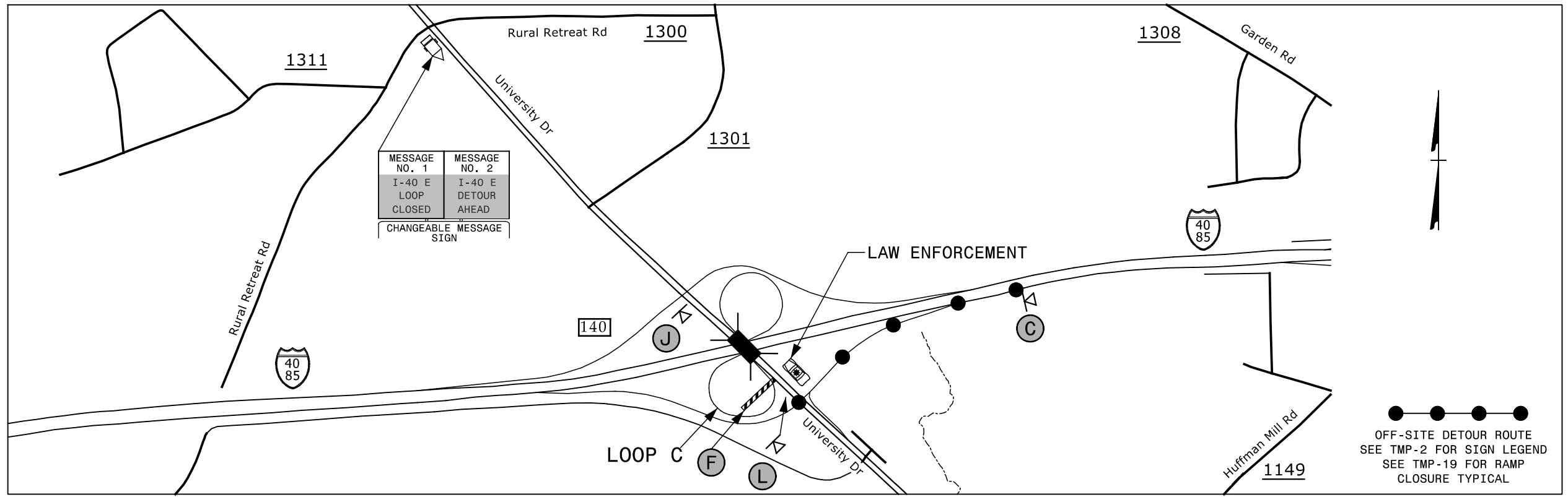
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Raleigh, NC 27605  
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DATE: 12/7/2015  
SEAL  
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UNLESS ALL SIGNATURES COMPLETED

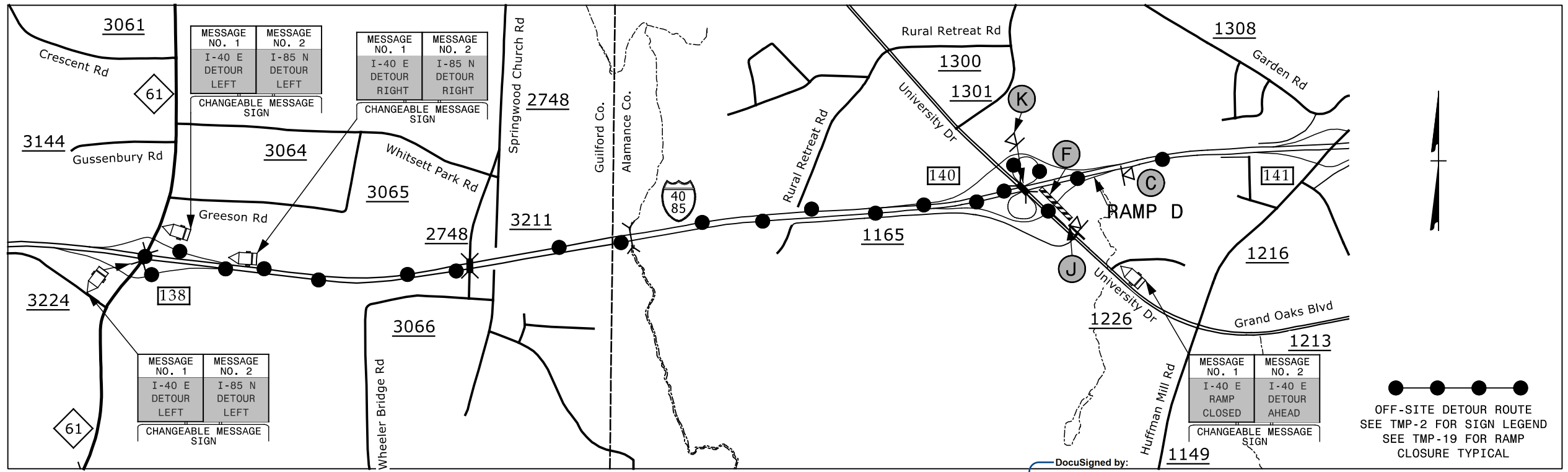


EXIT 140  
UNIVERSITY DRIVE  
DETOUR

### EXIT 140 LOOP C - I-40/I-85



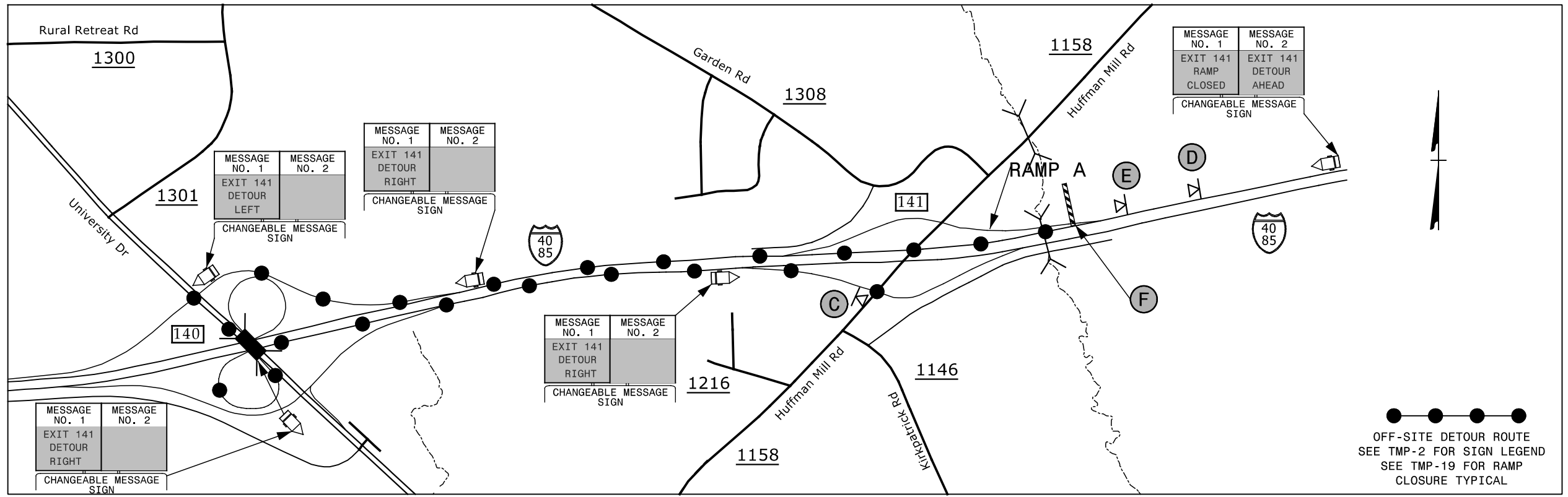
### EXIT 140 RAMP D - I-40/I-85



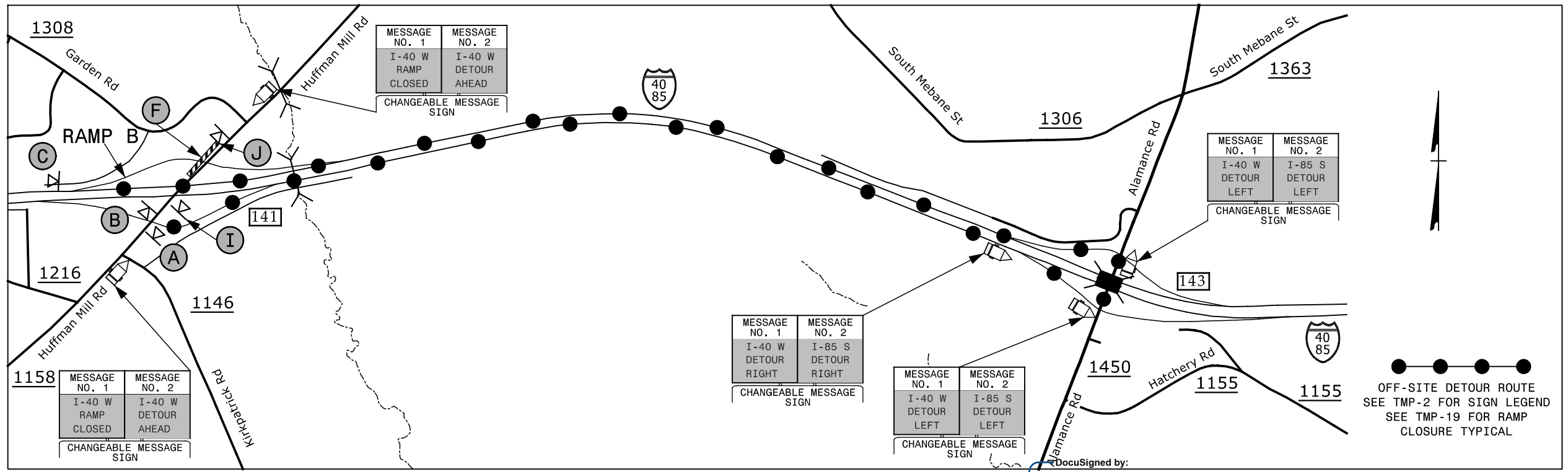
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<p>1025 Wade Avenue Raleigh, NC 27605 Tel: 919-789-9977 Fax: 919-789-9591 License: C-2197</p>	<p>APPROVED: <i>Steve Miller</i></p> <p>DATE: 12/7/2015</p>			<h2>EXIT 140 UNIVERSITY DRIVE DETOUR</h2>
	<p>SEAL</p> <p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>			

### EXIT 141 RAMP A - I-40/I-85



### EXIT 141 RAMP B - I-40/I-85



12/17/2015 12:00:00 PM G:\Tr\aff\I-5309 & I-5836 TMP\TMP-I-5309\_5836 TMP-6.dgn

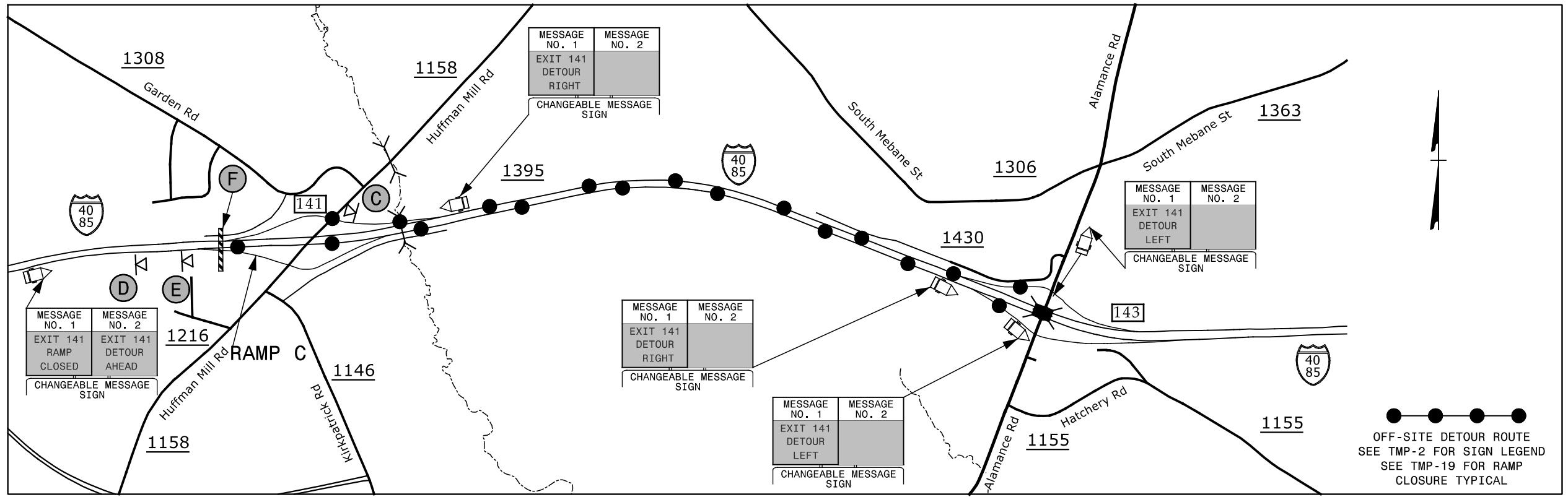
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DATE: 12/7/2015  
SEAL  
DOCUMENT NOT CONSIDERED FINAL  
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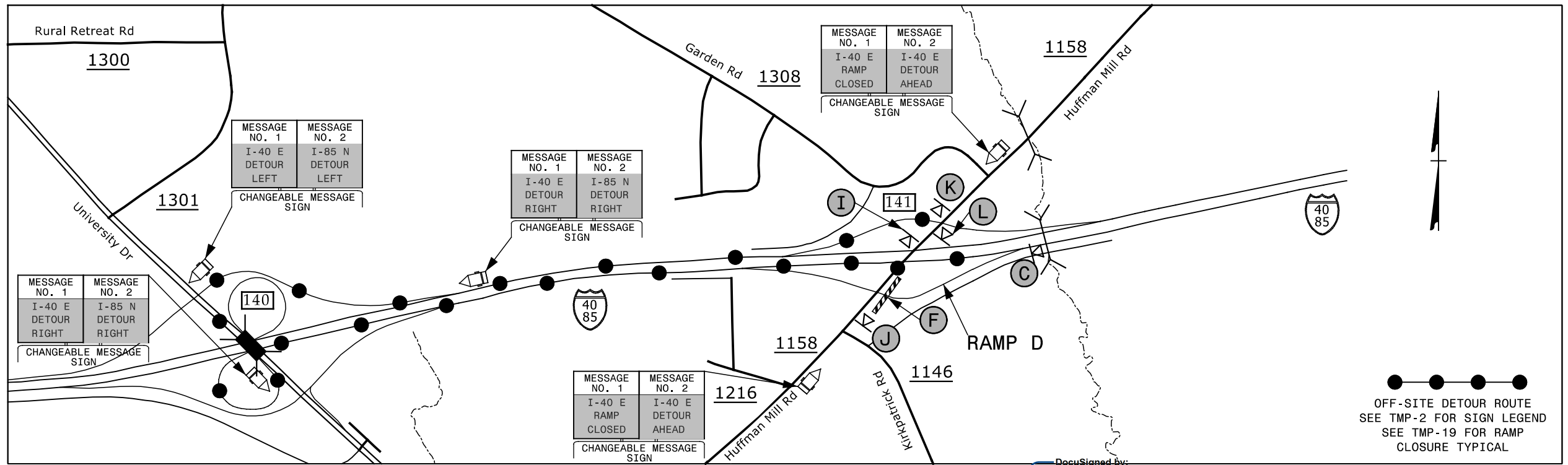
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL  
SEAL  
037026  
STEVEN D. MILLER  
ENGINEER

**EXIT 141  
HUFFMAN MILL ROAD  
DETOUR**

### EXIT 141 RAMP C - I-40/I-85



### EXIT 141 RAMP D - I-40/I-85



12/1/2015 10:00 AM G:\Traffic\I-5309 & I-5836 TMP\TMP-I-5309\_5836 TMP-7.dgn

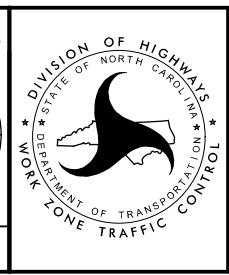
**SEPI**  
ENGINEERING & CONSTRUCTION

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DATE: 12/7/2015

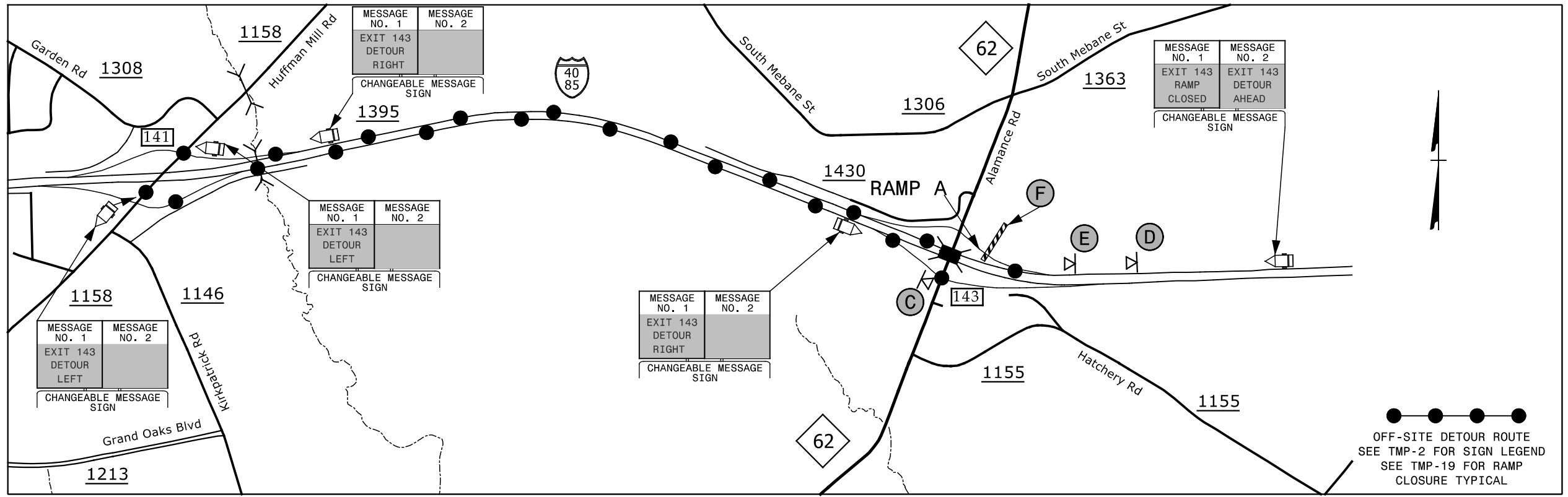
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UNLESS ALL SIGNATURES COMPLETED

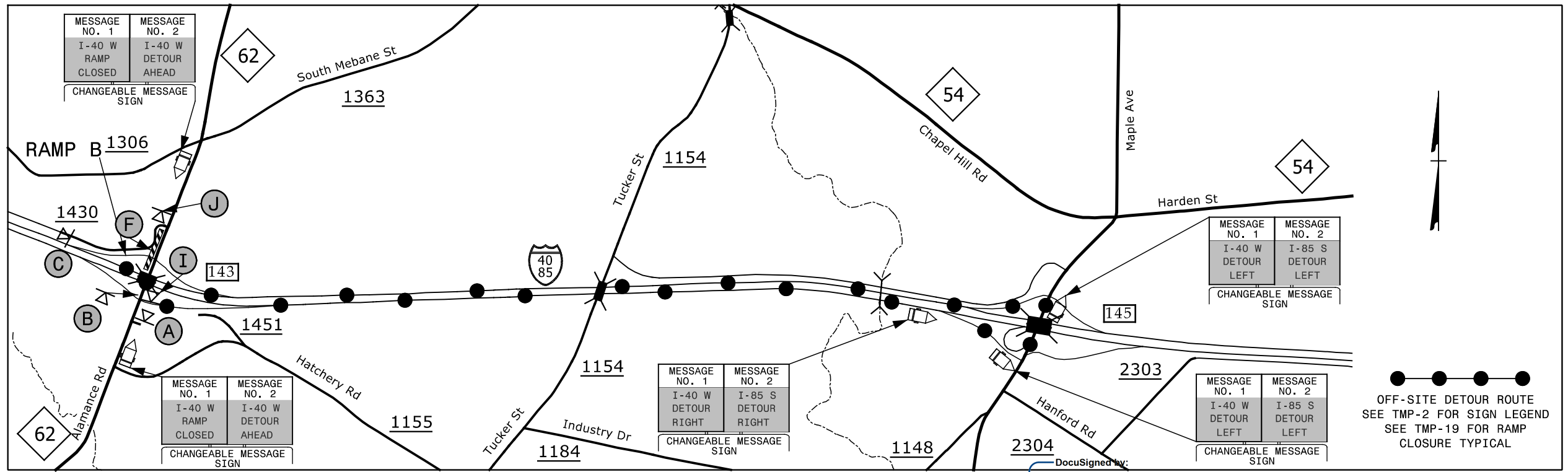


EXIT 141  
HUFFMAN MILL ROAD  
DETOUR

### EXIT 143 RAMP A - I-40/I-85



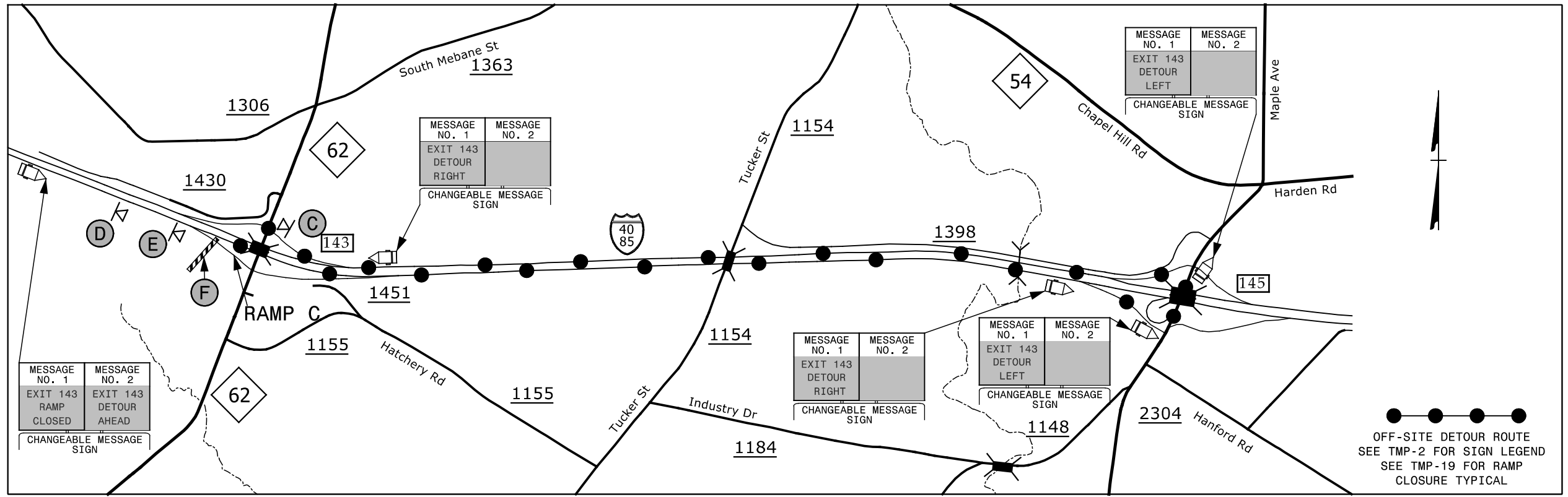
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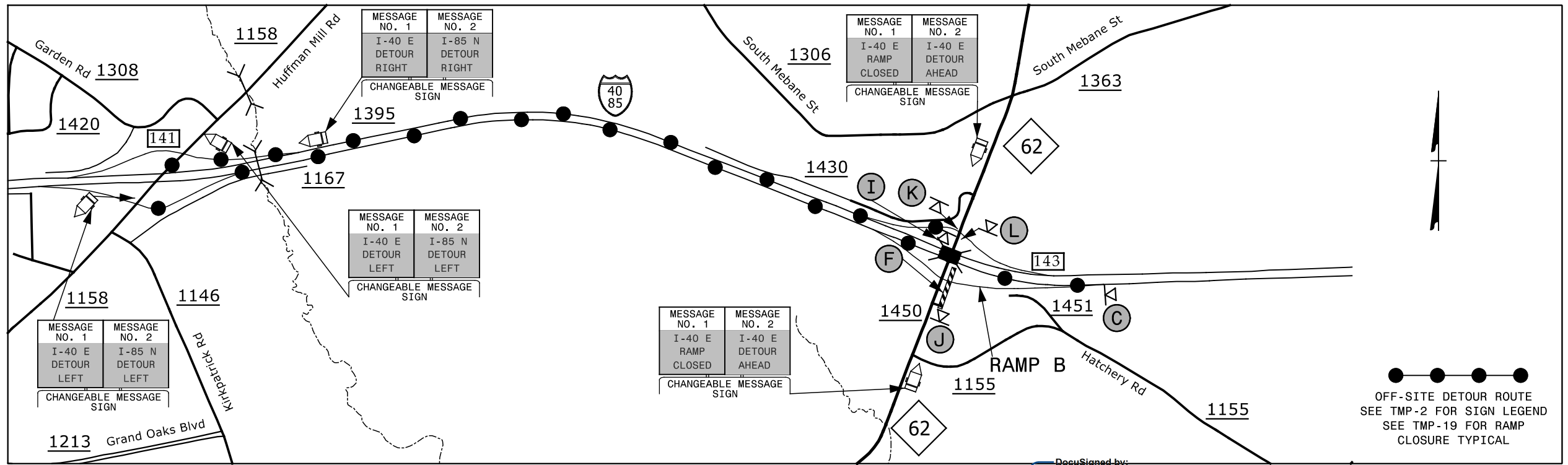
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<p><b>SEPI</b> ENGINEERING &amp; CONSTRUCTION</p> <p>1025 Wade Avenue Raleigh, NC 27605 Tel: 919-789-9977 Fax: 919-789-9591 License: C-2197</p>	<p>APPROVED: <i>Steve Miller</i></p> <p>DATE: 12/7/2015</p> <p>SEAL</p>			<p><b>EXIT 143 ALAMANCE ROAD DETOUR</b></p>
	<p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>			

### EXIT 143 RAMP C - I-40/I-85



### EXIT 143 RAMP D - I-40/I-85



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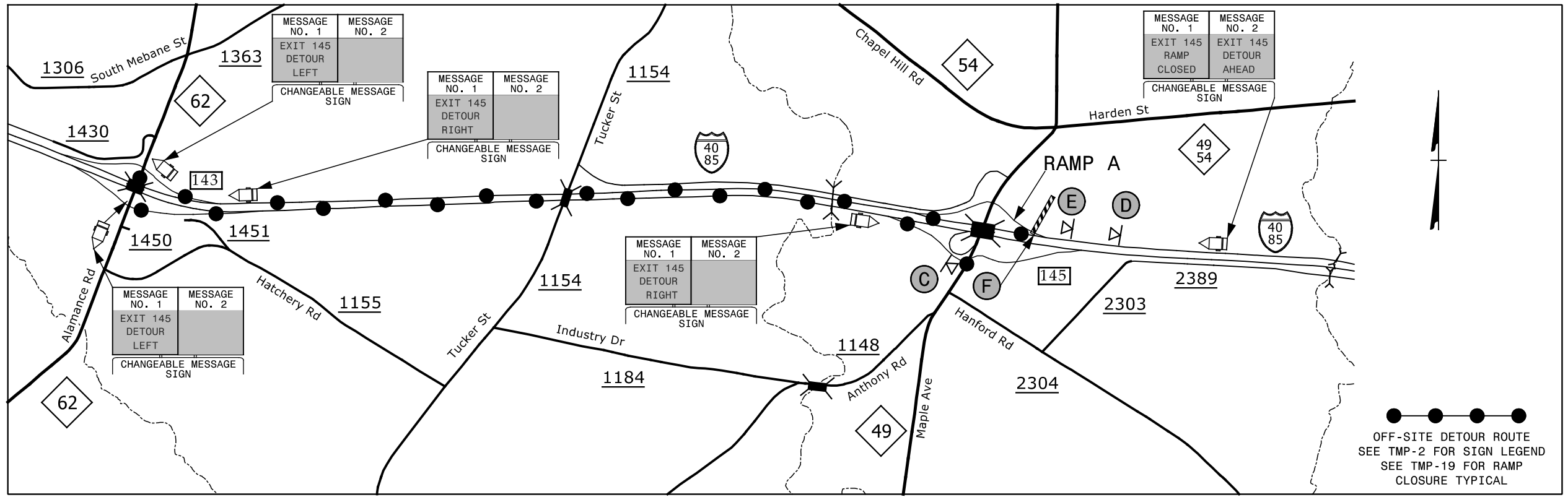
**SEPI** ENGINEERING & CONSTRUCTION  
 1025 Wade Avenue  
 Raleigh, NC 27605  
 Tel: 919-789-9977  
 Fax: 919-789-9591  
 License: C-2197

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**Steve Miller**  
 APPROVED: *Steve Miller*  
 DATE: 12/7/2015  
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 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

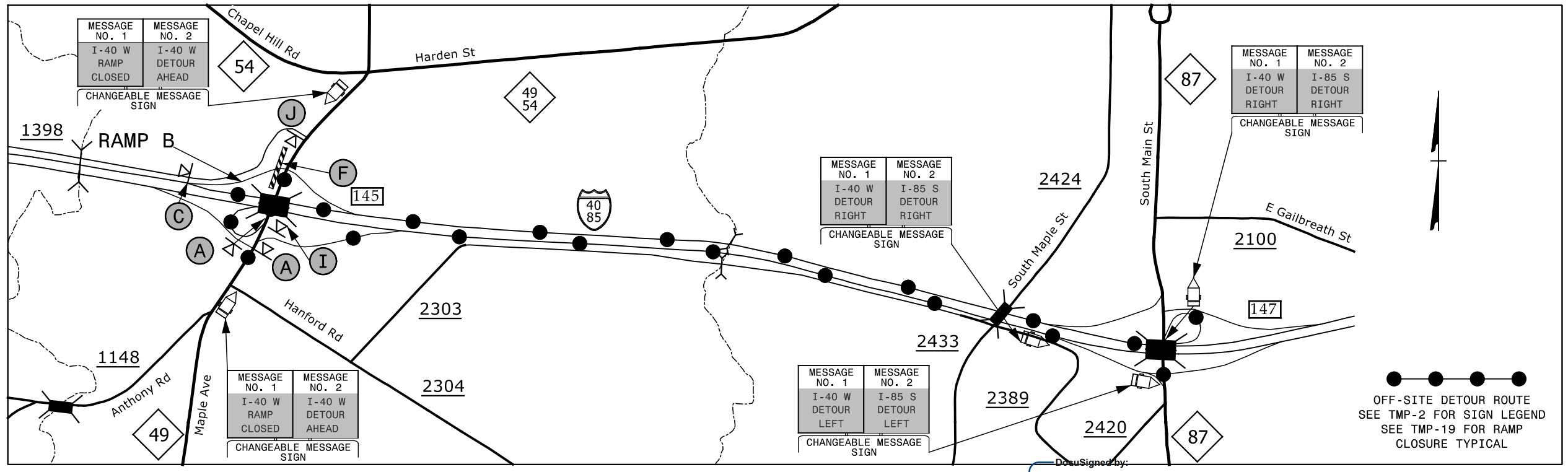


**EXIT 143 ALAMANCE ROAD DETOUR**

### EXIT 145 RAMP A - I-40/I-85



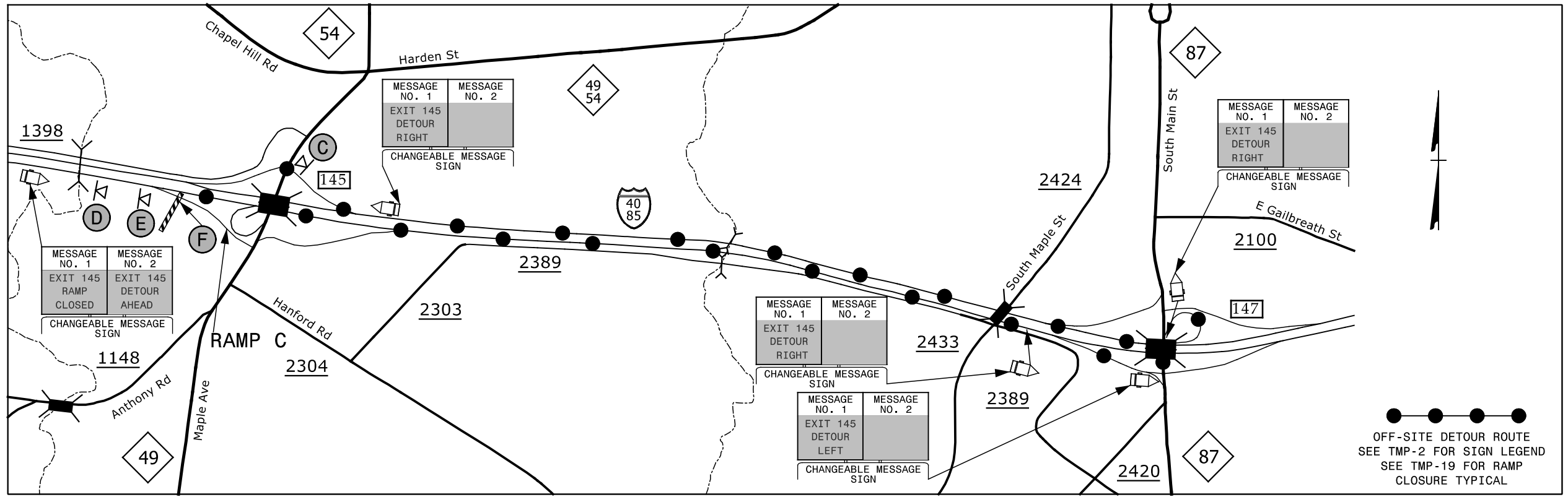
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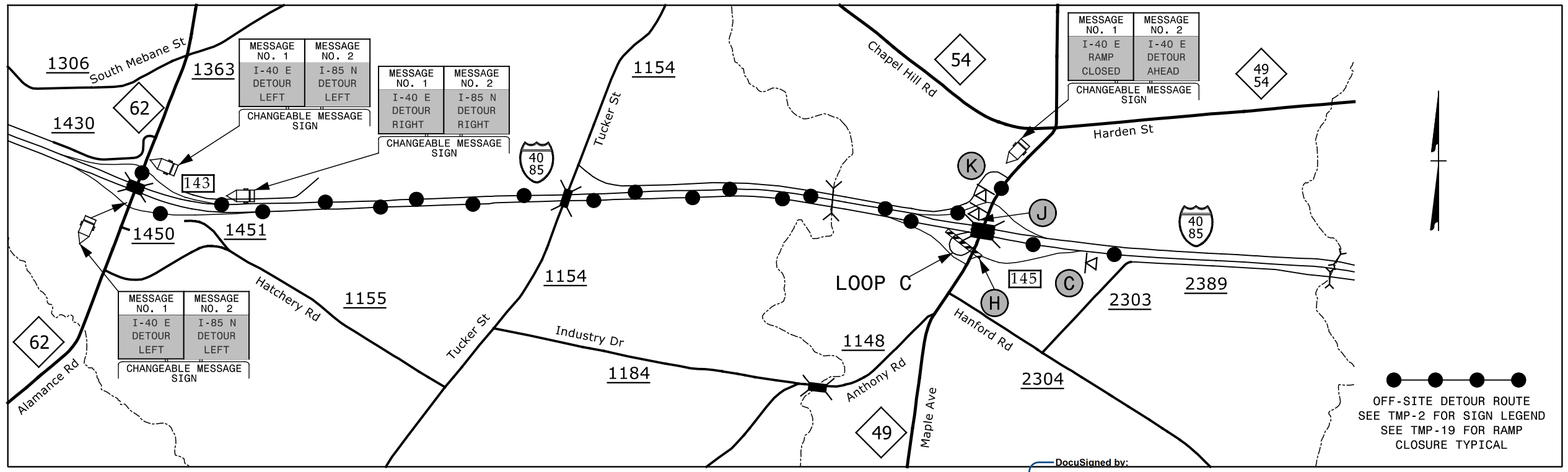
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<p><b>SEPI</b> ENGINEERING &amp; CONSTRUCTION 1025 Wade Avenue Raleigh, NC 27605 Tel: 919-789-9977 Fax: 919-789-9591 License: C-2197</p>	<p>APPROVED: <i>Steve Miller</i></p> <p>DATE: 12/7/2015</p> <p>SEAL</p>			<p><b>EXIT 145 MAPLE AVENUE DETOUR</b></p>
	<p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>			

### EXIT 145 RAMP C - I-40/I-85

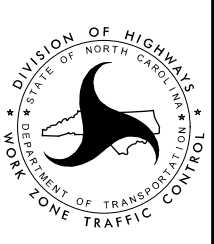


### EXIT 145 LOOP C - I-40/I-85



12/1/2015 10:00:00 AM G:\Tr\off\I-5309 & I-5836 TMP\TMP-11-5309\_5836 TMP-11.dgn

DocuSigned by:  
**Steve Miller**  
 APPROVED: *Steve Miller*  
 DATE: 12/7/2015 10:00:00 AM  
 SEAL



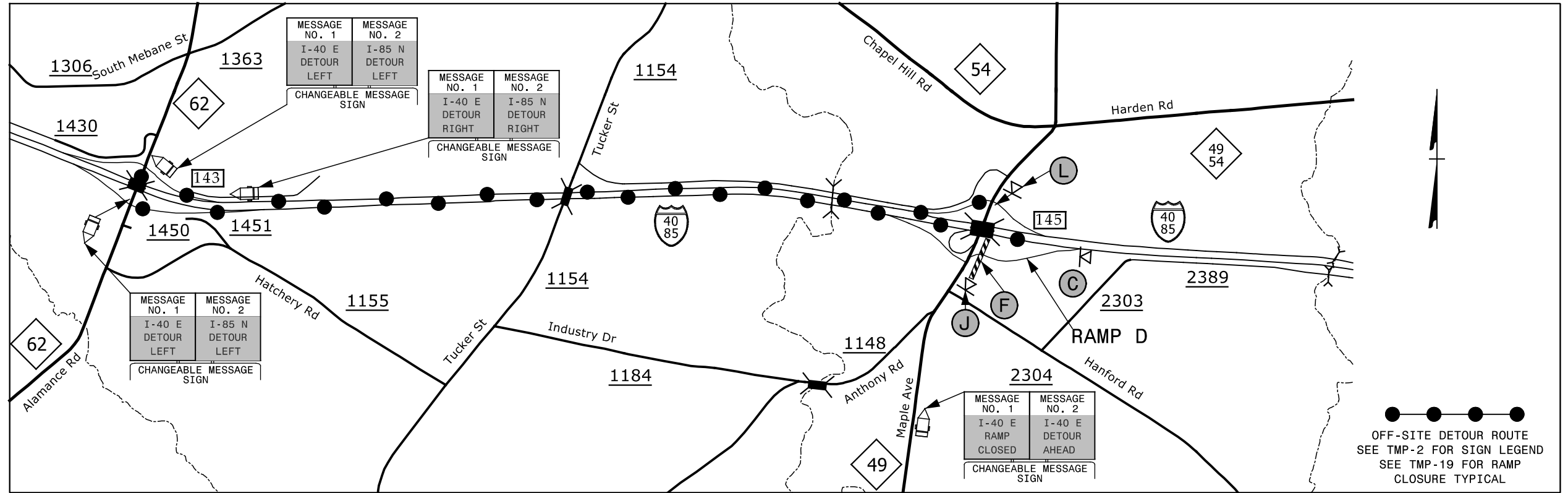
**SEPI**  
 ENGINEERING & CONSTRUCTION  
 1025 Wade Avenue  
 Raleigh, NC 27605  
 Tel: 919-789-9977  
 Fax: 919-789-9591  
 License: C-2197

**EXIT 145  
 MAPLE AVENUE  
 DETOUR**



# EXIT 145 RAMP D - I-40/I-85

PROJ. REFERENCE NO.	SHEET NO.
I-5309/I-5836	TMP-12



12/1/2015 12:00:00 PM G:\Tr\aff\I-5309 & I-5836 TMP\TMP-I-5309\_5836 TMP-12.dgn

**SEPI**  
ENGINEERING & CONSTRUCTION

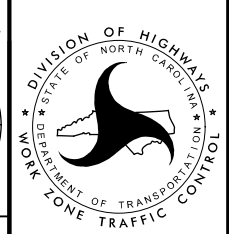
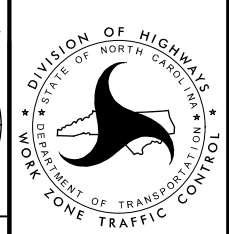
1025 Wade Avenue  
Raleigh, NC 27605  
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Fax: 919-789-9591  
License: C-2197

DocuSigned by:  
*Steve Miller*

APPROVED: *Steve Miller*  
DATE: 12/7/2015 12:00:00 PM

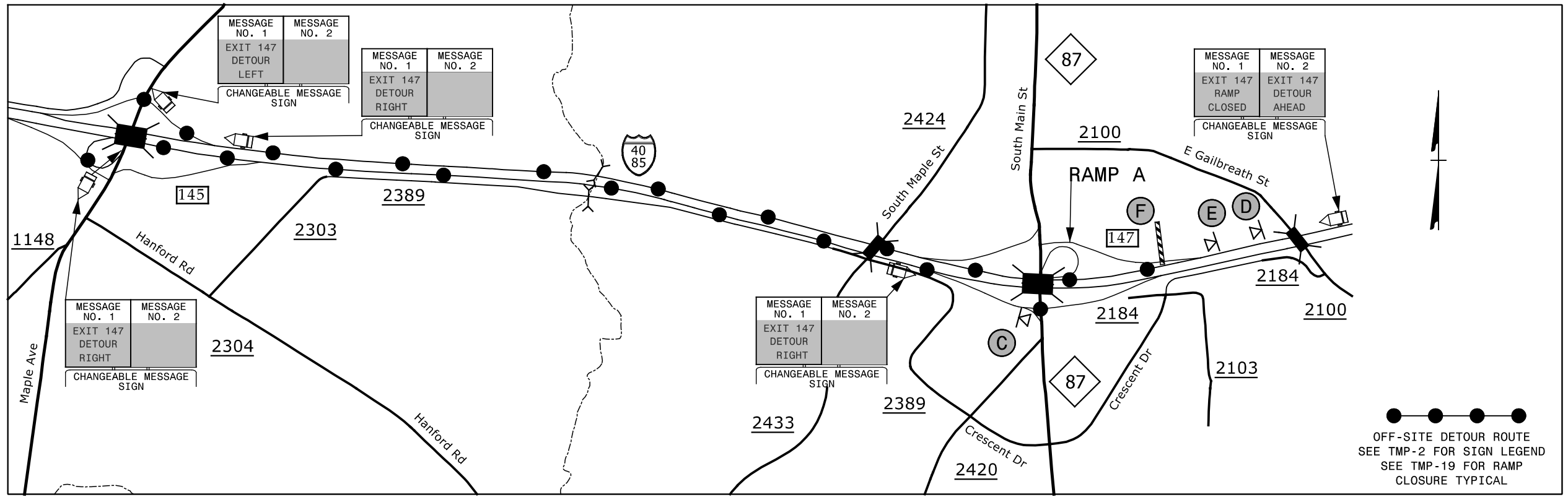
SEAL

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

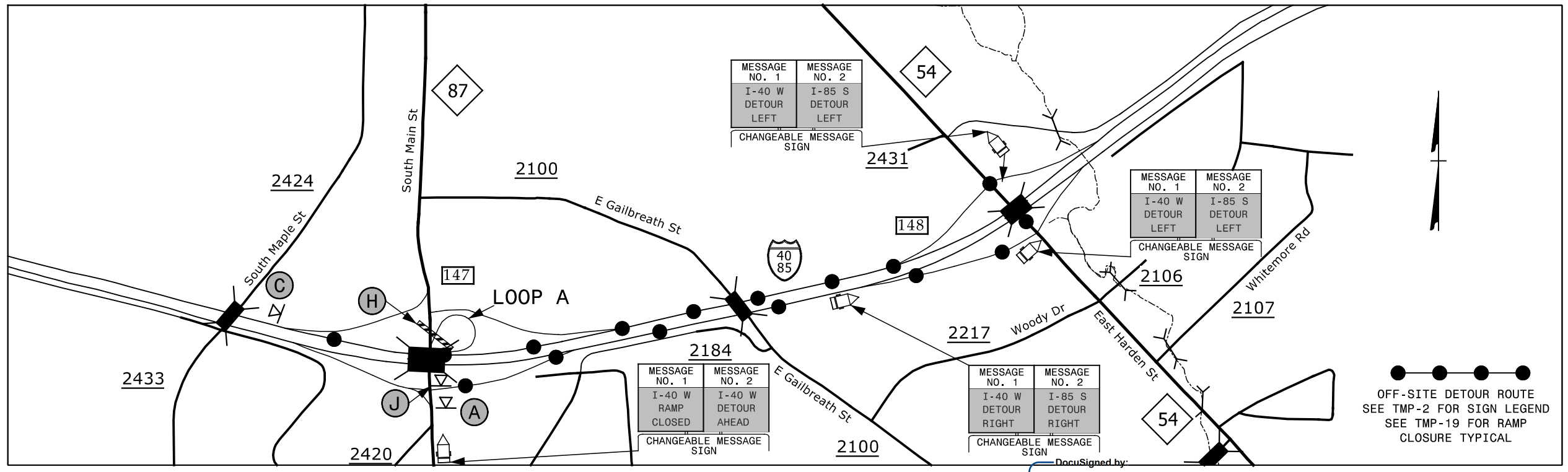


**EXIT 145  
MAPLE AVENUE  
DETOUR**

### EXIT 147 RAMP A - I-40/I-85



### EXIT 147 LOOP A - I-40/I-85



12/1/2015 12:17:20 PM G:\Tr\aff\I-5309 & I-5836 TMP\TMP-13.dgn

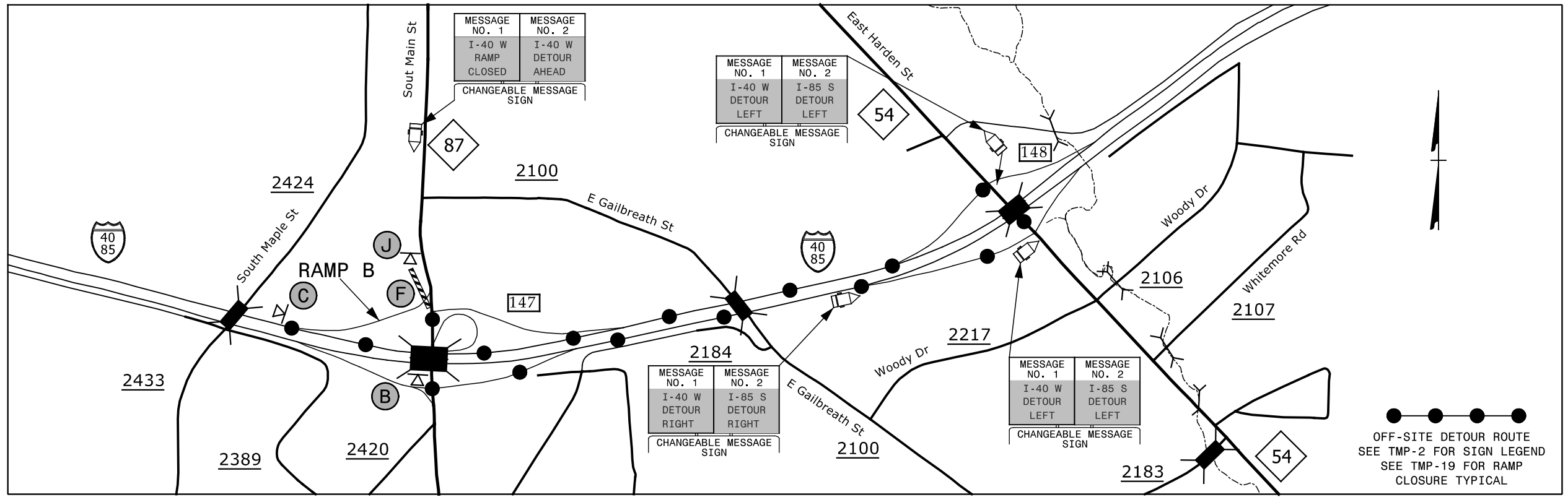
**SEPI** ENGINEERING & CONSTRUCTION  
 1025 Wade Avenue  
 Raleigh, NC 27605  
 Tel: 919-789-9977  
 Fax: 919-789-9591  
 License: C-2197

APPROVED: *Steve Miller*  
 DATE: 12/7/2015  
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 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

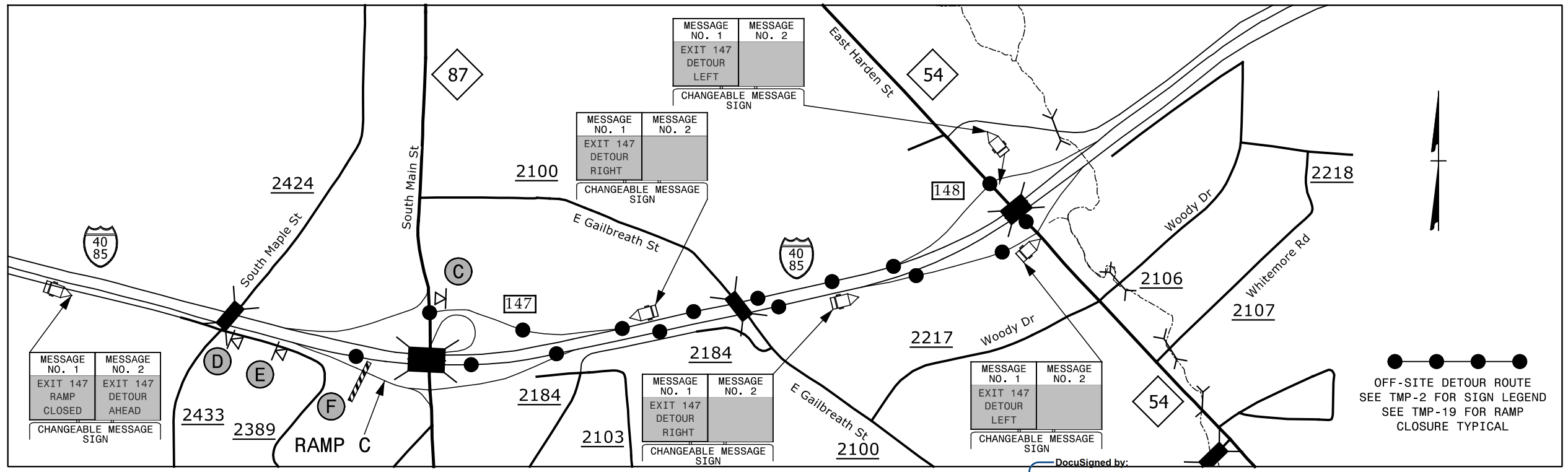
DIVISION OF HIGHWAYS  
 NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

**EXIT 147 SOUTH MAIN STREET DETOUR**

### EXIT 147 RAMP B - I-40/I-85



### EXIT 147 RAMP C - I-40/I-85



12/1/2015 12:01:15 PM G:\Tr\aff\I-5309 & I-5836 TMP\TMP-I-5309\_5836 TMP-14.dgn

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 Fax: 919-789-9591  
 License: C-2197

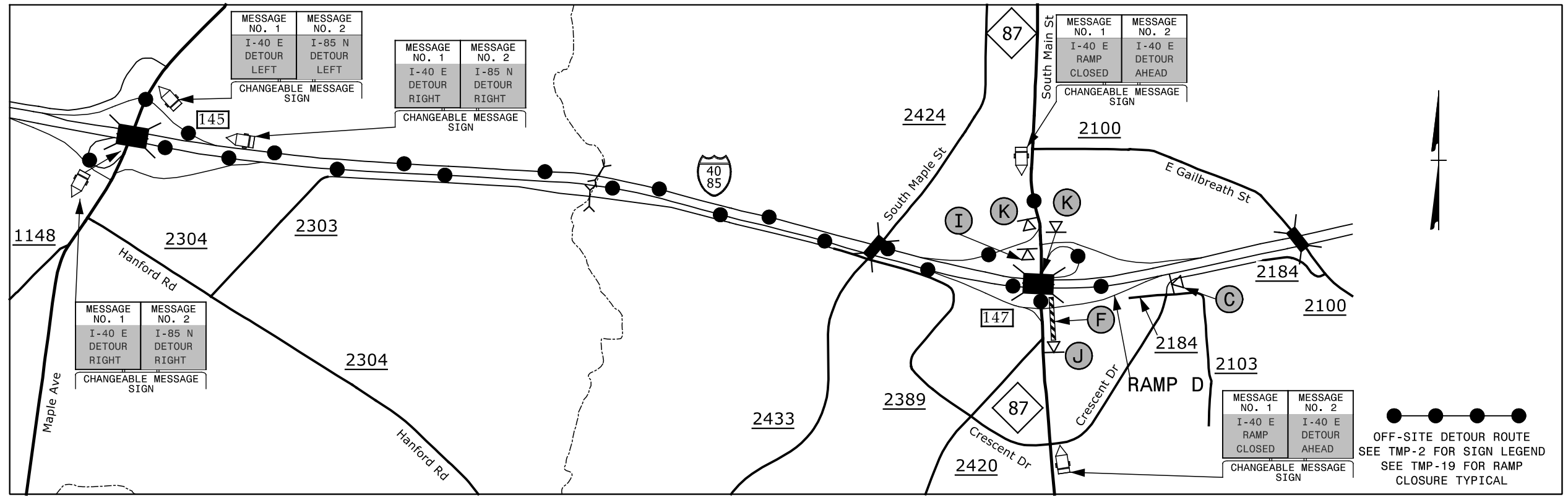
APPROVED: *Steve Miller*  
 DATE: 12/7/2015  
 SEAL  
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DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

EXIT 147  
 SOUTH MAIN STREET  
 DETOUR

# EXIT 147 RAMP D - I-40/I-85

PROJ. REFERENCE NO.	SHEET NO.
I-5309/I-5836	TMP-15



12/1/2015 12:17:01 PM G:\Tr\aff\I-5309 & I-5836 TMP\TMP-I-5309\_5836 TMP-15.dgn

**SEPI**  
ENGINEERING & CONSTRUCTION

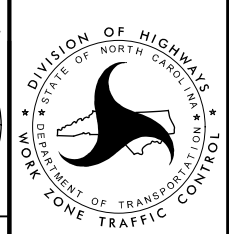
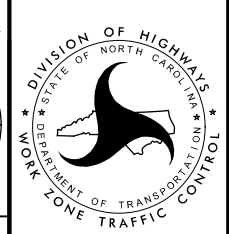
1025 Wade Avenue  
Raleigh, NC 27605  
Tel: 919-789-9977  
Fax: 919-789-9591  
License: C-2197

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*Steve Miller*

APPROVED: *Steve Miller*  
DATE: 12/7/2015

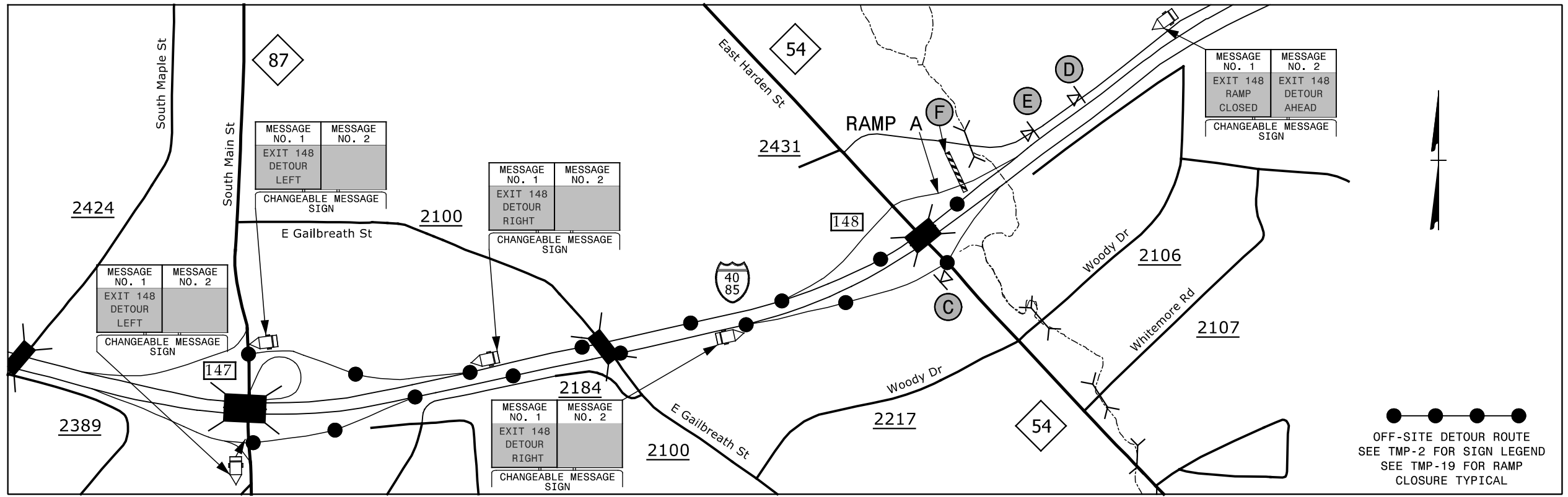
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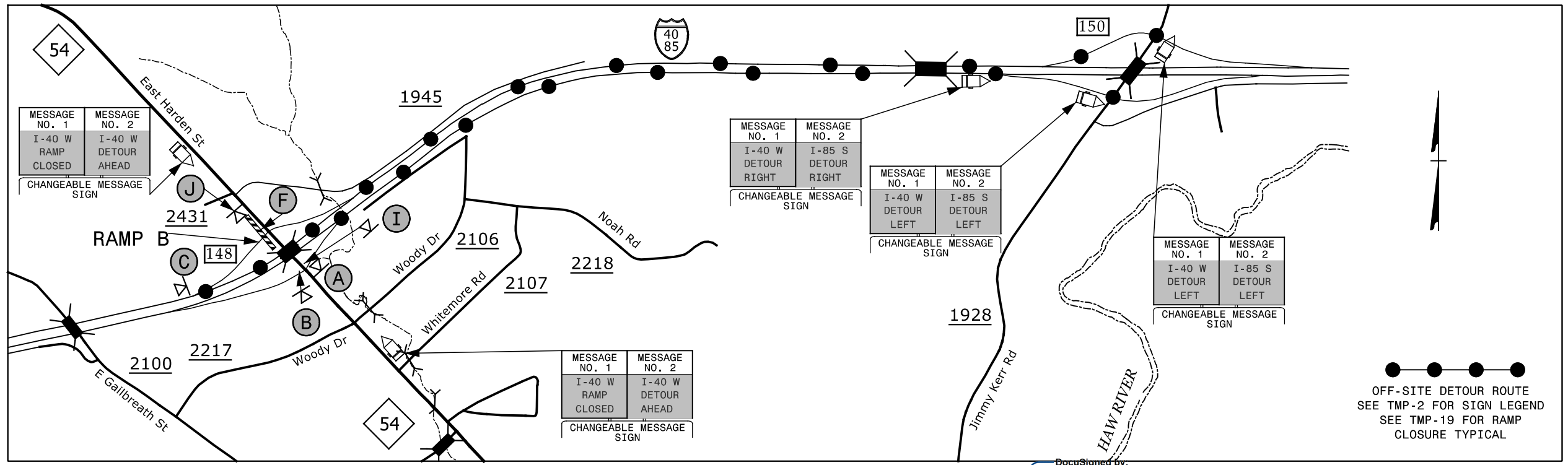


**EXIT 147  
SOUTH MAIN STREET  
DETOUR**

### EXIT 148 RAMP A - I-40/I-85



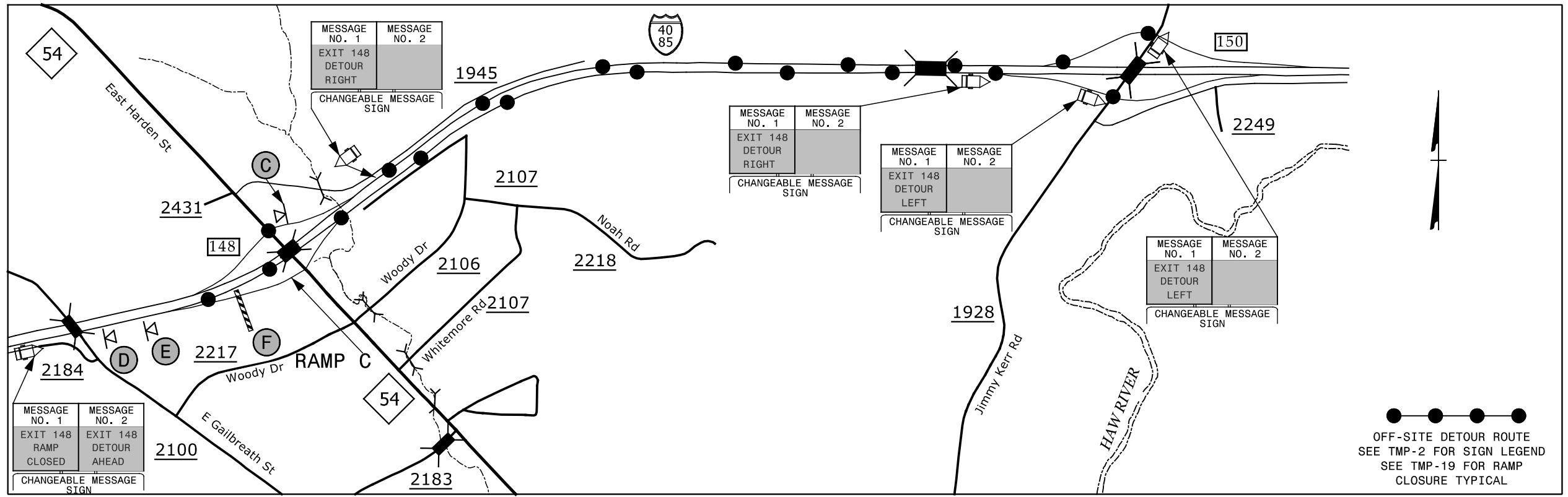
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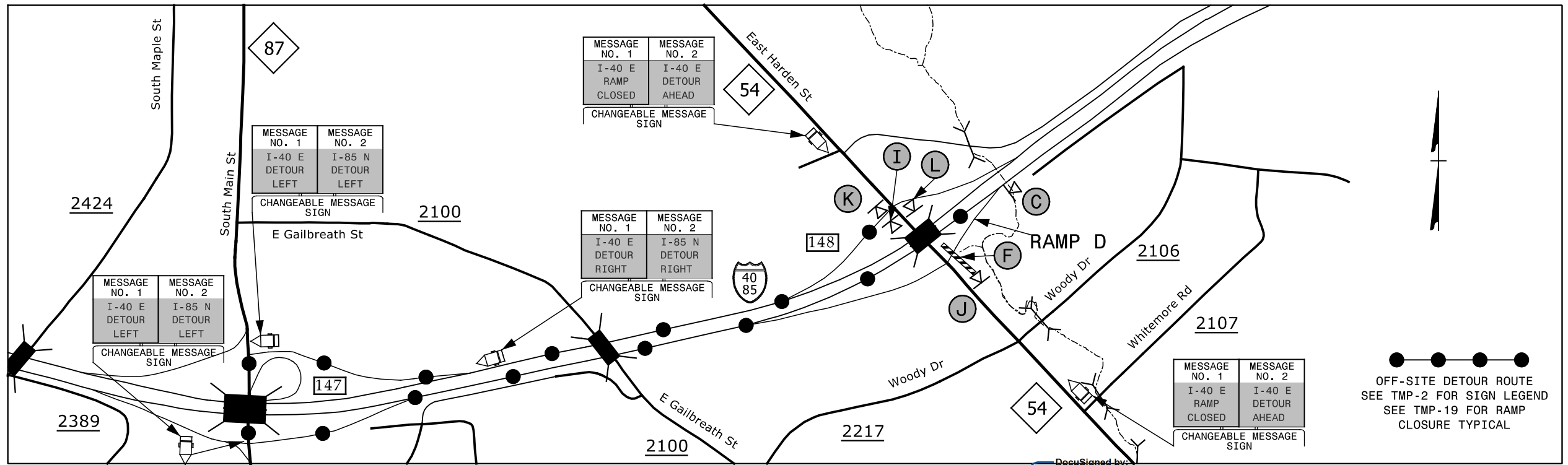
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<p>1025 Wade Avenue Raleigh, NC 27605 Tel: 919-789-9977 Fax: 919-789-9591 License: C-2197</p>	APPROVED: <i>Steve Miller</i> DATE: 12/7/2015			EXIT 148 NC 54 DETOUR
	SEAL			

### EXIT 148 RAMP C - I-40/I-85



### EXIT 148 RAMP D - I-40/I-85



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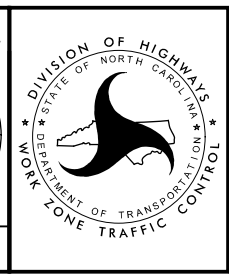
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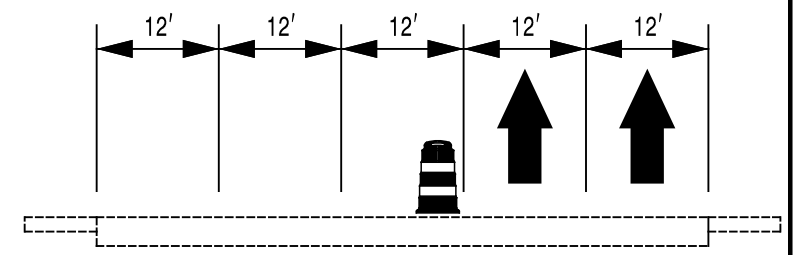
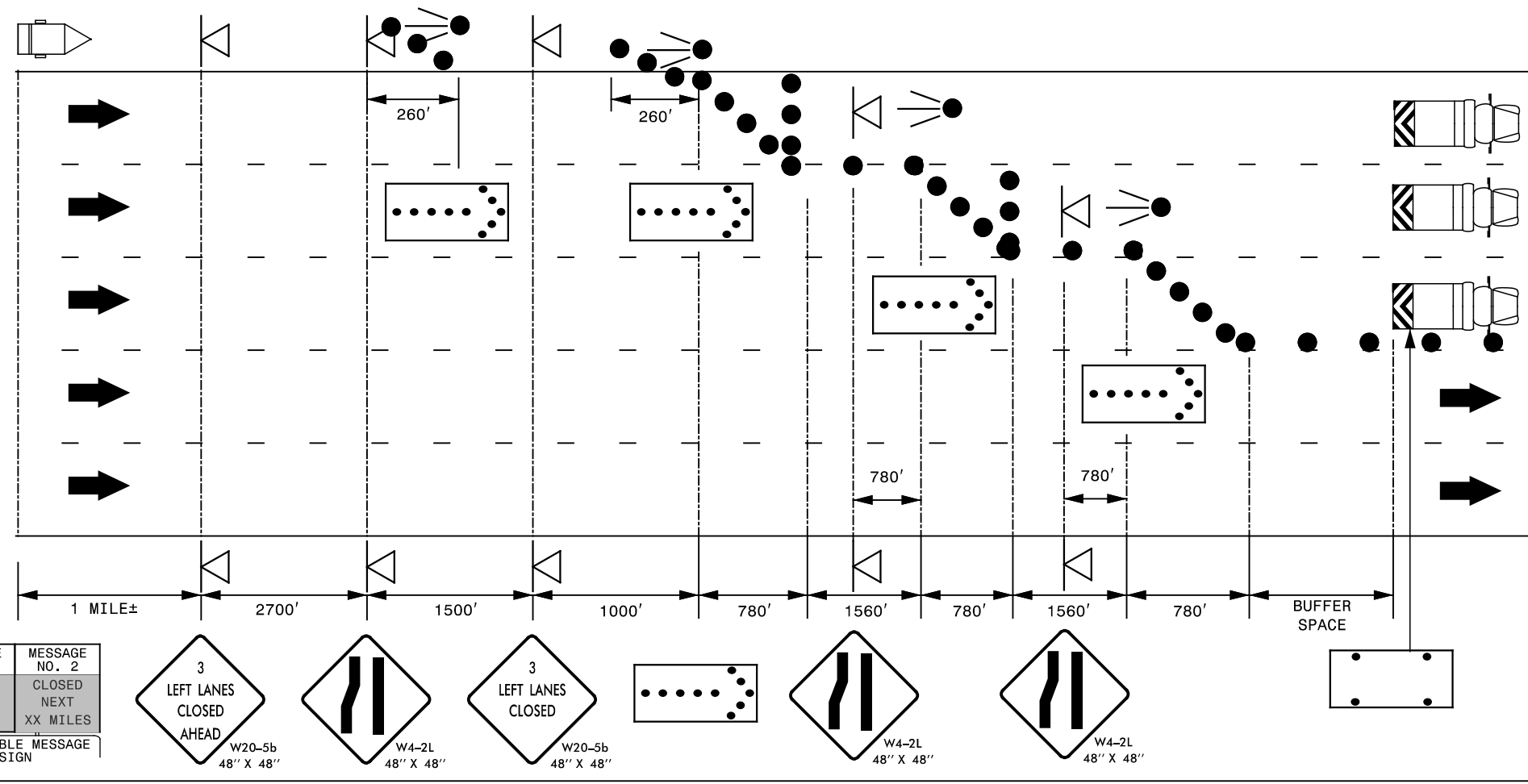
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DATE: 12/7/2015

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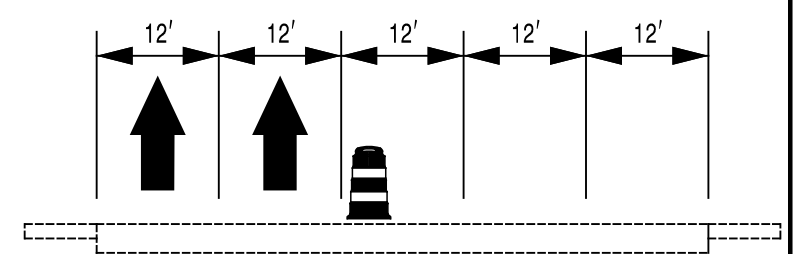
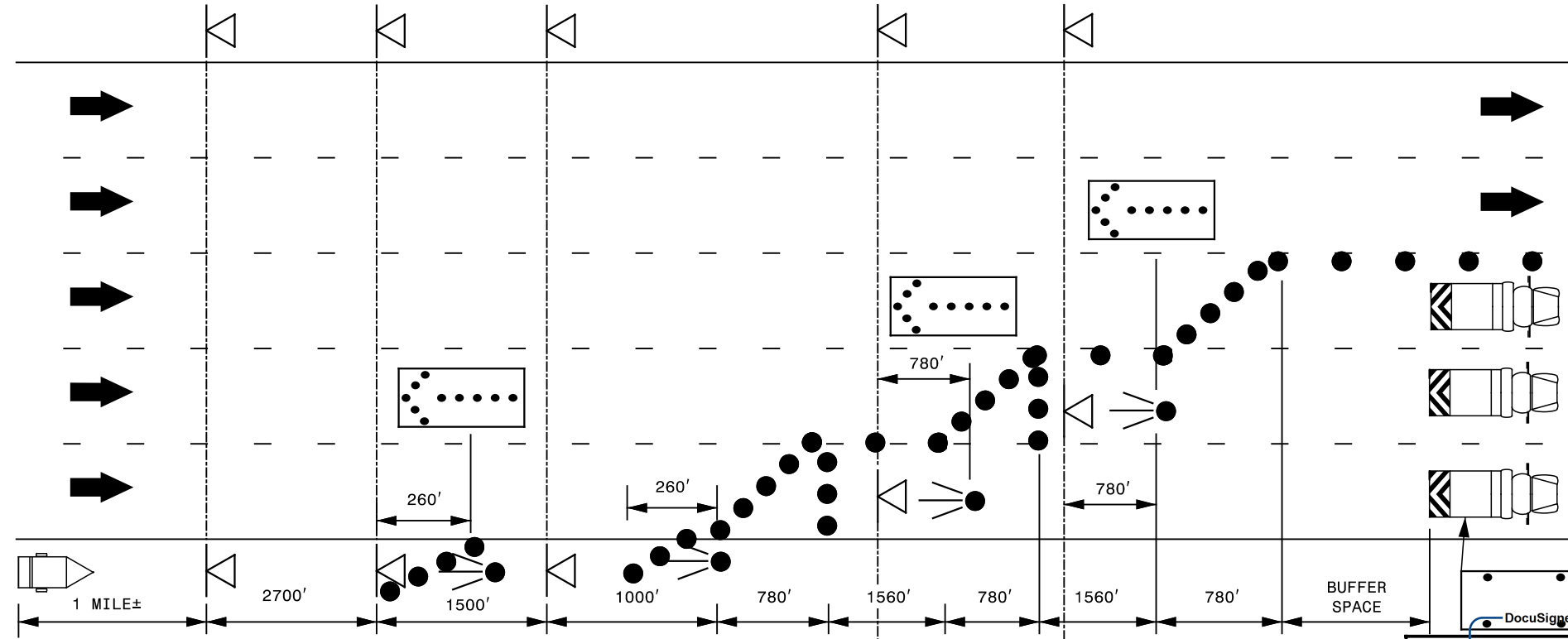
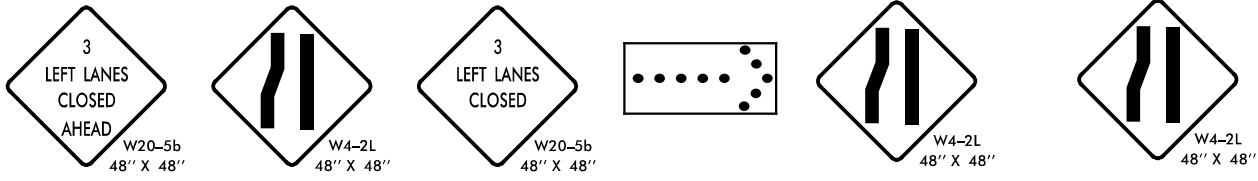
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UNLESS ALL SIGNATURES COMPLETED



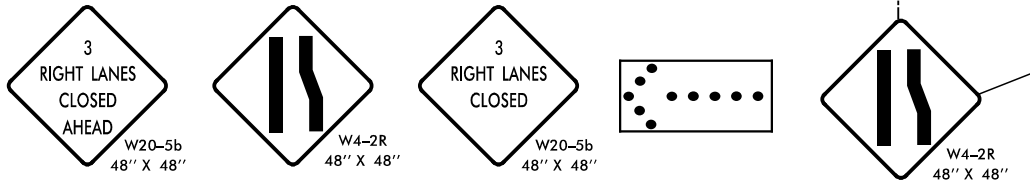
**EXIT 148  
NC 54  
DETOUR**



MESSAGE NO. 1 LEFT THREE LANES	MESSAGE NO. 2 CLOSED NEXT XX MILES
CHANGEABLE MESSAGE SIGN	



MESSAGE NO. 1 RIGHT THREE LANES	MESSAGE NO. 2 CLOSED NEXT XX MILES
CHANGEABLE MESSAGE SIGN	



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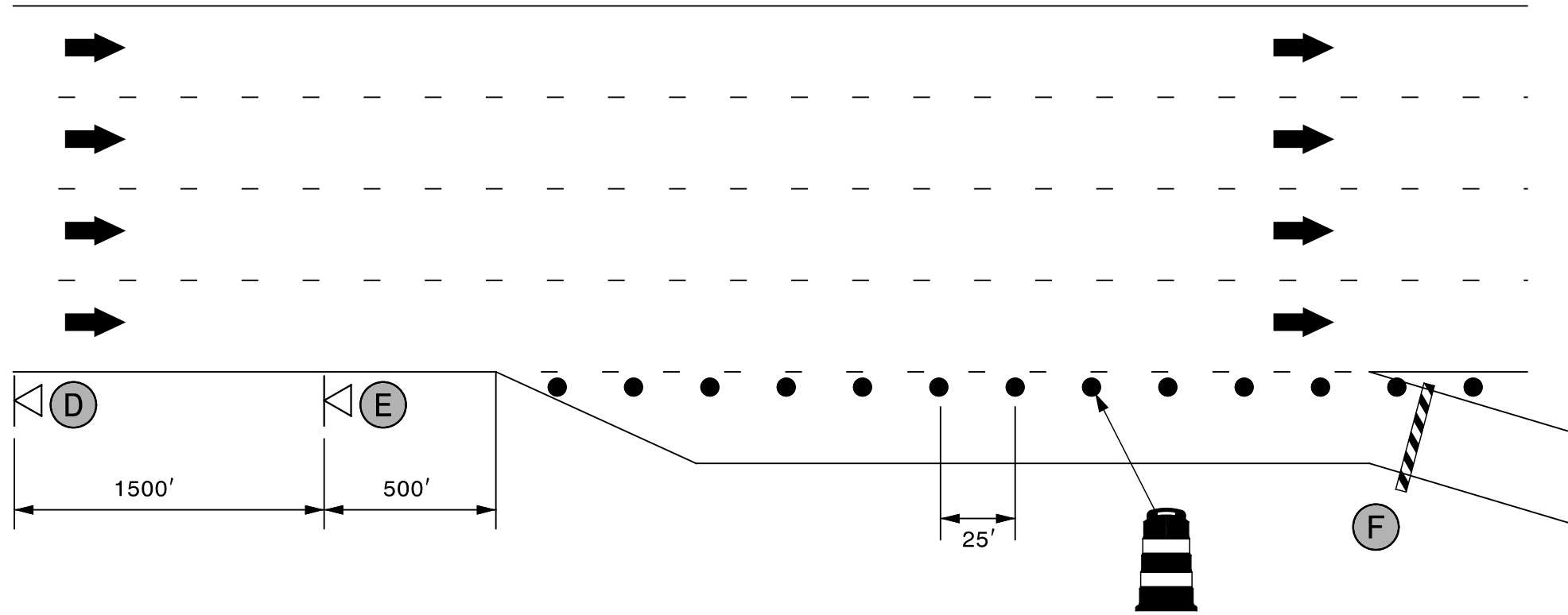
APPROVED: *Steve Miller*  
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DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

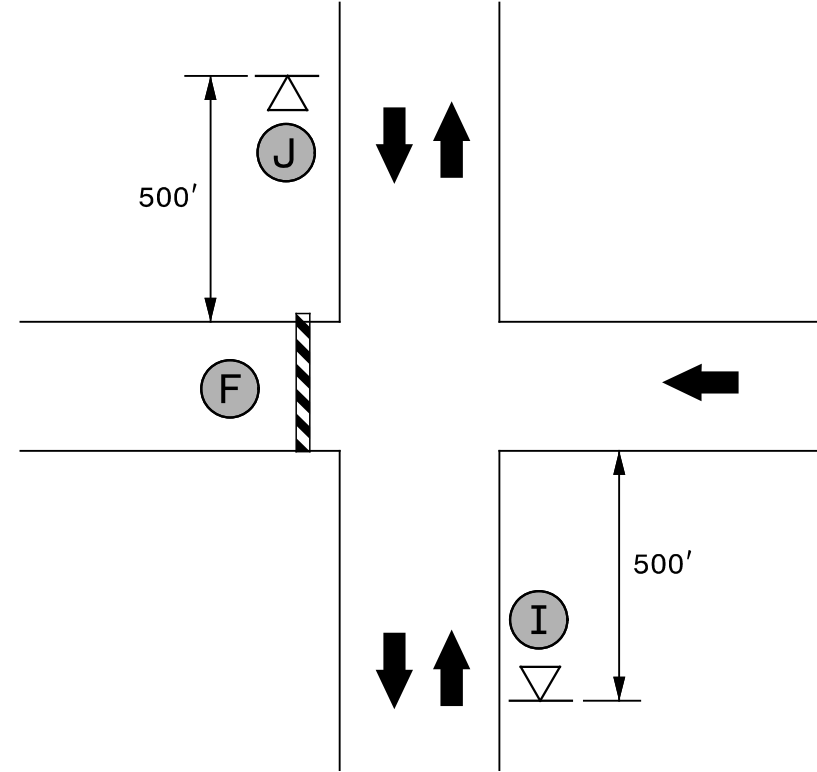
LANE CLOSURE TYPICAL

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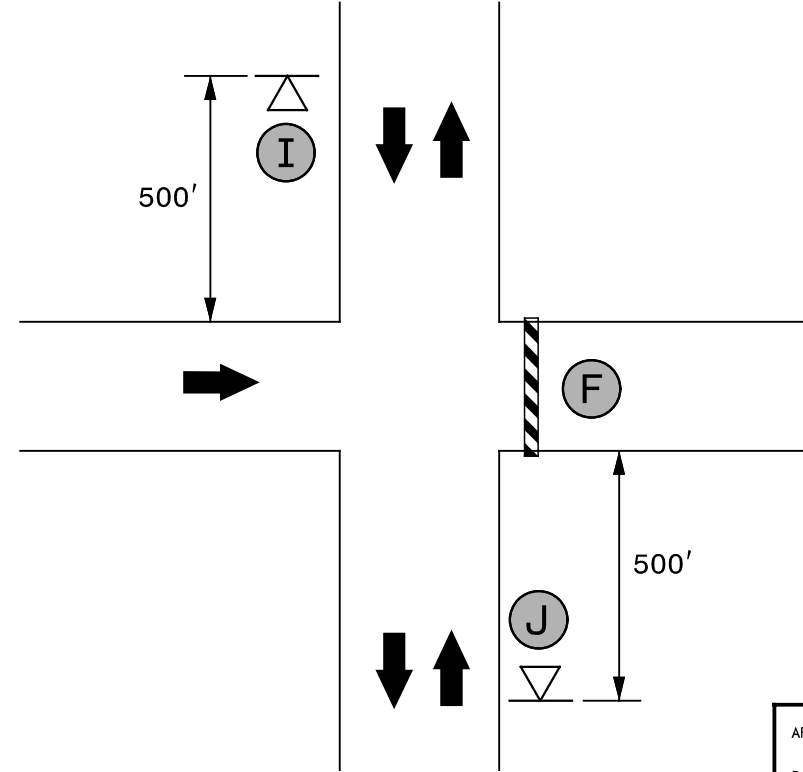
# RAMP A, RAMP C CLOSURE



# RAMP B, LOOP C CLOSURE



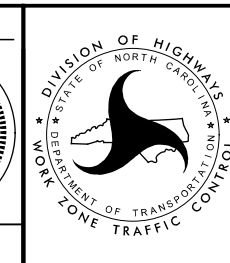
# RAMP D CLOSURE



NOTE: SEE TMP-2 FOR SIGN LEGEND

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 DATE: 12/7/2015  
 SEAL  
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RAMP  
 CLOSURE  
 TYPICAL

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12/7/2015 12:00:00 PM G:\Tr\aff\I-5309 & I-5836 TMP\TMP-I-5309-5836 TMP-19.dgn