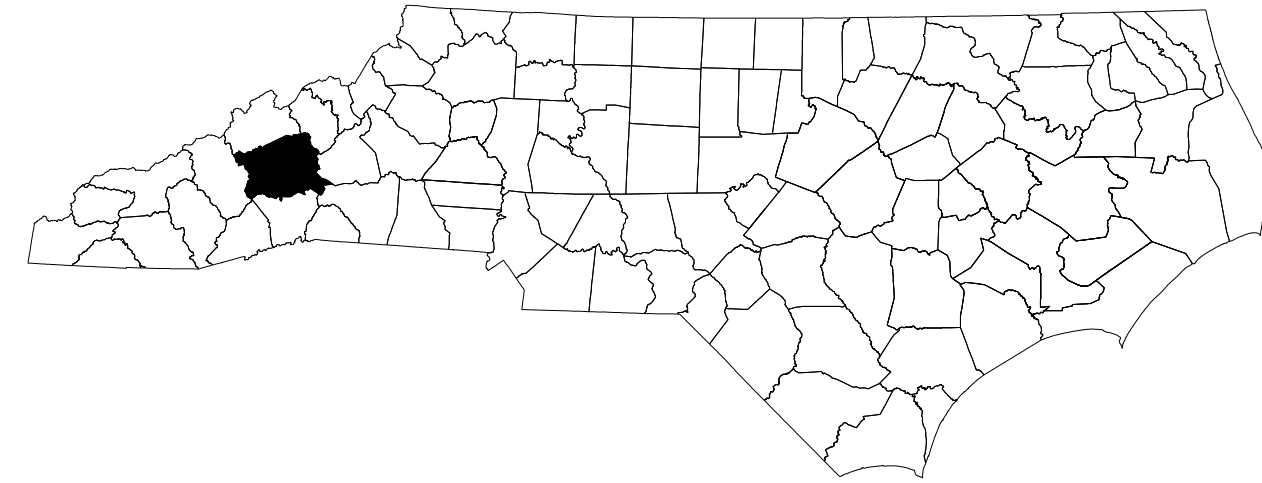


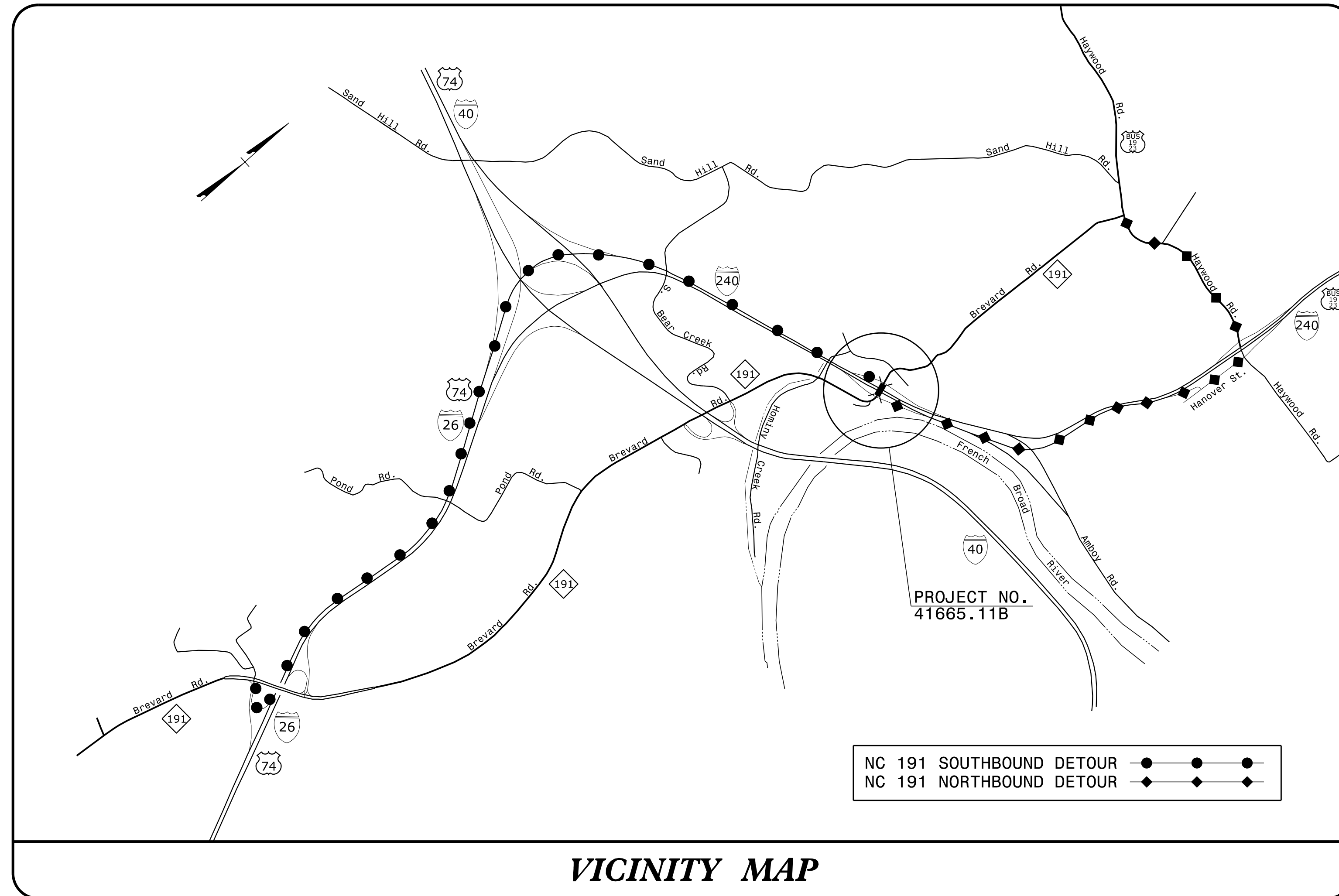
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

BUNCOMBE COUNTY



LOCATION: BRIDGE NO. 242 ON NC 191 (BREVARD RD.) OVER I-26 & I-260



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 MARKINGS
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES)
TMP-1C	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES CONTINUATION AND NARRATIVE)
TMP-2	NB NC 191 ADVANCE WARNING SIGNS / DEVICES (WEEKEND CLOSURES)
TMP-3	OFF-SITE DETOUR - NC 191 (BREVARD RD.) NORTHBOUND
TMP-4	OFF-SITE DETOUR - NC 191 (BREVARD RD.) SOUTHBOUND
TMP-5	BIKE DETOUR ROUTE (WEEKEND CLOSURES)

SHEET NO.

TMP-1

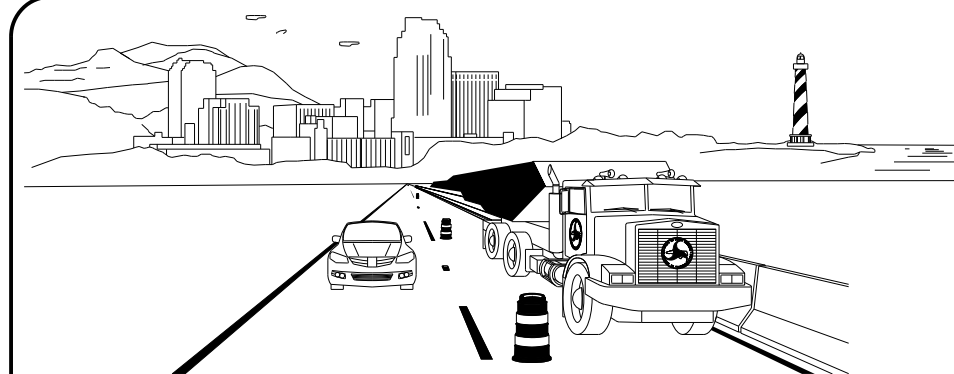
41665.11B

PROJECT:

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

APPROVED *Don A. Parker*
DATE: 3/26/2019

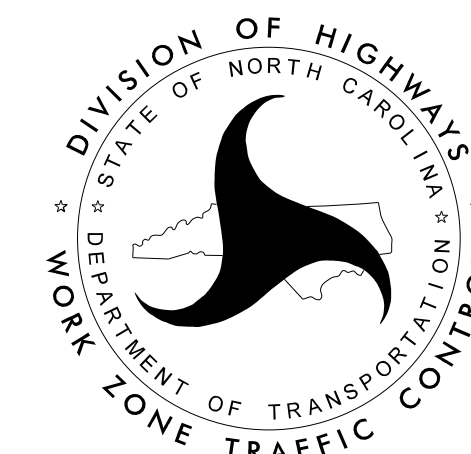
SEAL



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

PLANS PREPARED BY:
D. A. PARKER, P.E.
TRAFFIC CONTROL PROJECT ENGINEER
R. M. GARRETT
TRAFFIC CONTROL PROJECT
DESIGN ENGINEER
S. B. COATS
TRAFFIC CONTROL DESIGN ENGINEER

NCDOT CONTACTS:
D. A. PARKER, P.E.
PROJECT ENGINEER
R. M. GARRETT
PROJECT DESIGN ENGINEER



ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP

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

TEMPORARY PAVEMENT MARKING

- COLD APPLIED PLASTIC (4") TYPE IV - REMOVABLE TAPE
- COLD APPLIED PLASTIC (24") TYPE IV - REMOVABLE TAPE

3/26/2019 S:\TMU\WZTC\DesignGroup3\Projects\41665\IB\Traffic Control\TCP\41665\IB_TC_TMP01A.dgn User:mgarratt

APPROVED: DATE: 3/26/2019 		ROADWAY STANDARD DRAWINGS & LEGEND
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

MANAGEMENT STRATEGIES

- FULL ROAD CLOSURE FOR 2 WEEKENDS
- NIGHTLY LANE CLOSURE FLAGGING OPERATION

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 - REQUIRES INTERMEDIATE CONTRACT TIME PROJECT SPECIAL PROVISIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS	
NC 191	MONDAY - FRIDAY	6:00 AM TO 9:00 PM
I-240	ALL DAYS	5:00 AM TO 9:00 PM

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

ROAD NAME
NC 191
I-240

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 5:00 A.M. DECEMBER 31st TO 9:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 5:00 A.M. THURSDAY AND 9:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 5:00 A.M. FRIDAY TO 9:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 5:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 5:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 5:00 A.M. FRIDAY AND 9:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 5:00 A.M. TUESDAY TO 9:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 5:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 191	6:00 AM MONDAY - 9:00 PM FRIDAY
I-240	ALL DAYS 5:00 AM - 9:00 PM

NOTE: A MAXIMUM OF 2 WEEKEND CLOSURES WILL BE PERMITTED FOR NC 191 ONLY.

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.
- 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 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.
- 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 LANE CLOSURE IN ANY ONE DIRECTION ON NC 191 AND I-240.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

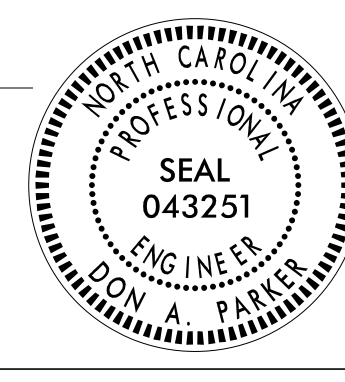
- K) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

TRAFFIC CONTROL DEVICES

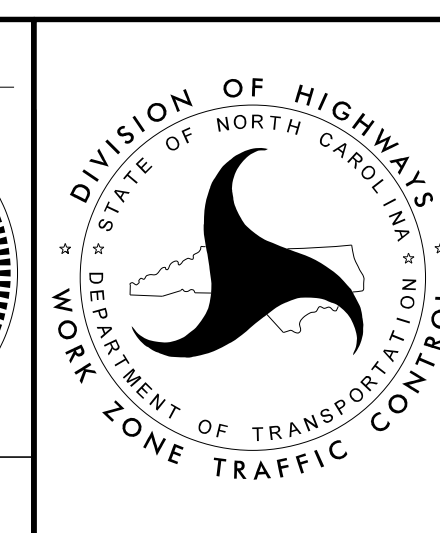
- L) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- M) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- N) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

DocuSigned by:
Don A. Parker
 40D48286201841D

APPROVED: _____
 DATE: 4/10/2019



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



TRANSPORTATION OPERATIONS PLAN

MANAGEMENT STRATEGIES & GENERAL NOTES

GENERAL NOTES (CONT'D)

L) 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.

M) 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.

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

TRAFFIC CONTROL DEVICES

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

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
NC 191	COLD APPLIED PLASTIC - TYPE IV REMOVABLE TAPE	NONE

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

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

S) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC AT THE NC 191 BRIDGE SIGNALIZED RAMPS DURING NIGHTLY LANE CLOSURES AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL NARRATIVE

1. BEFORE WORKING ON THE PROJECT, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONSTRUCTION SEQUENCE FOR TRAFFIC CONTROL TO THE ENGINEER AT THE FIRST PRE- CONSTRUCTION MEETING AND THE SEQUENCE MUST BE APPROVED BEFORE COMMENCING WORK.

THE ENGINEER WILL COORDINATE WITH THE BUNCOMBE COUNTY EMS (828) 250-6630, FIRE DEPARTMENT (828) 250-6620, AND THE (ART) ASHEVILLE REDEFINES TRANSIT AUTHORITY 30 DAYS PRIOR TO DISRUPTION OF THEIR SERVICES FOR ADDITIONAL TRAFFIC CONTROL GUIDANCE, AS NECESSARY.

THE CONTRACTOR IS TO COORDINATE WITH THE I-5504 (C203754) CONTRACTOR AS DIRECTED BY THE ENGINEER TO ENSURE NO OPERATIONS AT I-26, EXIT 33 WOULD PREVENT THIS LOCATION FROM BEING USED FOR THE BRIDGE 242 (NC 191) DETOUR. (SEE PROJECT SPECIAL PROVISIONS).

2. CLOSE AND DETOUR NC 191 TO TRAFFIC FOR A MAXIMUM OF 2 WEEKENDS FOR BRIDGE REHABILITATION WORK PER THE TRANSPORTATION MANAGEMENT PLANS (TMP). BIKE DETOUR ROUTE TO BE ESTABLISHED PER THE (TMP) PRIOR TO INITIAL WEEKEND CLOSURE.

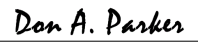
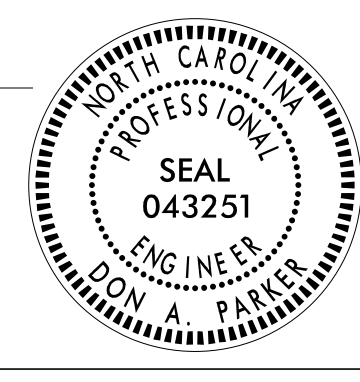

3. FOR OPERATIONS ON NC 191 PERFORMED OUTSIDE THE ALLOWABLE WEEKEND CLOSURES, USE A FLAGGING OPERATION IN ACCORDANCE WITH RSD 1101.02, SHEET 1. PLACE SIGNALS IN FLASH MODE AND USE LAW ENFORCEMENT TO DIRECT TRAFFIC UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

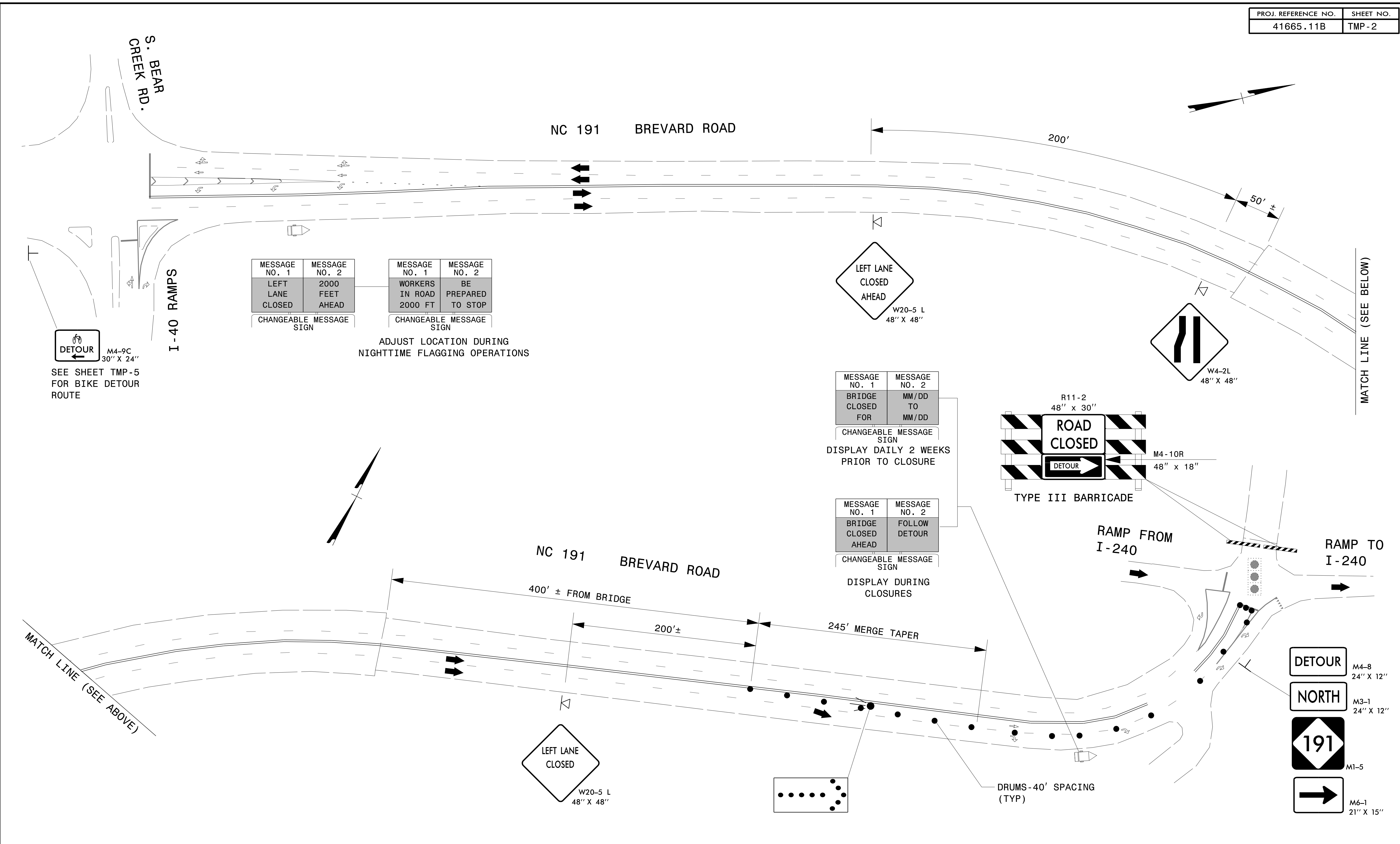
FOR OPERATIONS IMPACTING TRAFFIC ON I-240, INSTALL A LANE CLOSURE IN ACCORDANCE WITH RSD 1101.02, SHEET 4.

FOR OPERATIONS IMPACTING TRAFFIC ON I-240 WHICH CAN NOT BE ACCOMPLISHED WITH A SINGLE LANE CLOSURE AS DETERMINED AT THE SOLE DISCRETION OF THE ENGINEER, CLOSE A SINGLE DIRECTION OF I-240 UTILIZING OFF-RAMP TO ON-RAMP DETOUR IN ACCORDANCE WITH RSD 1101.03, SHEET 7. AT THE RAMP TERMINALS, PLACE SIGNALS IN FLASH MODE AND USE LAW ENFORCEMENT TO DIRECT TRAFFIC.

4. SEE FINAL PAVEMENT MARKING PLANS FOR MATERIAL TYPES AND LOCATIONS.

4/10/2019 S:\T\U\W\ZTC\DesignGroup3\Projects\41665.11B\Traffic Control\TCP\41665.11B_TC_TMP01C.dgn User:rmgarrrett

APPROVED:  DATE: 4/10/2019			TRANSPORTATION OPERATIONS PLAN GENERAL NOTES (CONT'D) & TRAFFIC CONTROL NARRATIVE
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



DETOUR

M4-9C
30" X 24"

SEE SHEET TMP-5 FOR BIKE DETOUR ROUTE

MATCH LINE (SEE ABOVE)

MATCH LINE (SEE BELOW)

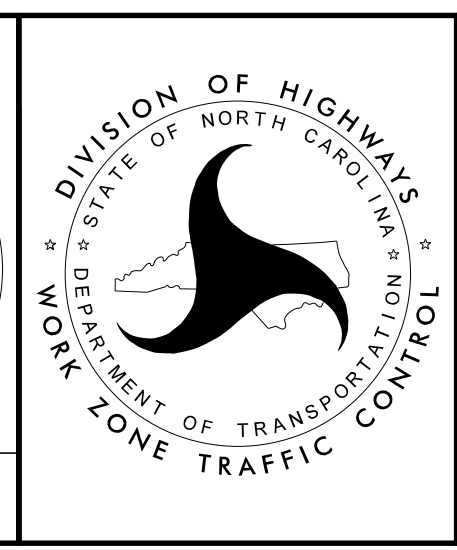
3/26/2019 S:\TMU\WZTC\DesignGroup3\Projects\41665.11B\Traffic Control\TCP\41665.11B_TC_TMP02.dgn User:rmgarratt

APPROVED: *Don A. Parker*
DATE: 3/26/2019

DocuSigned by:
Don A. Parker
40044286261841D.

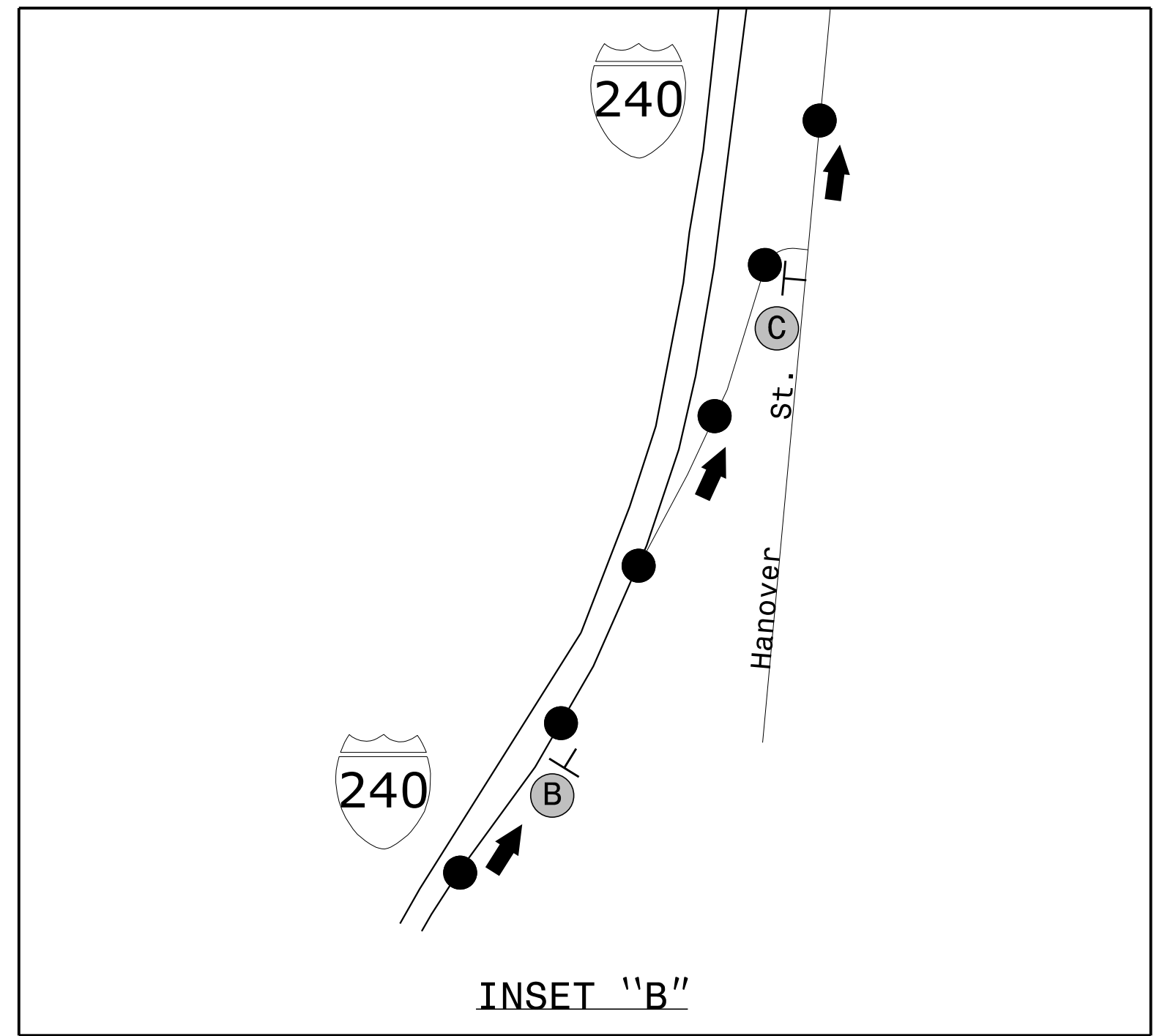
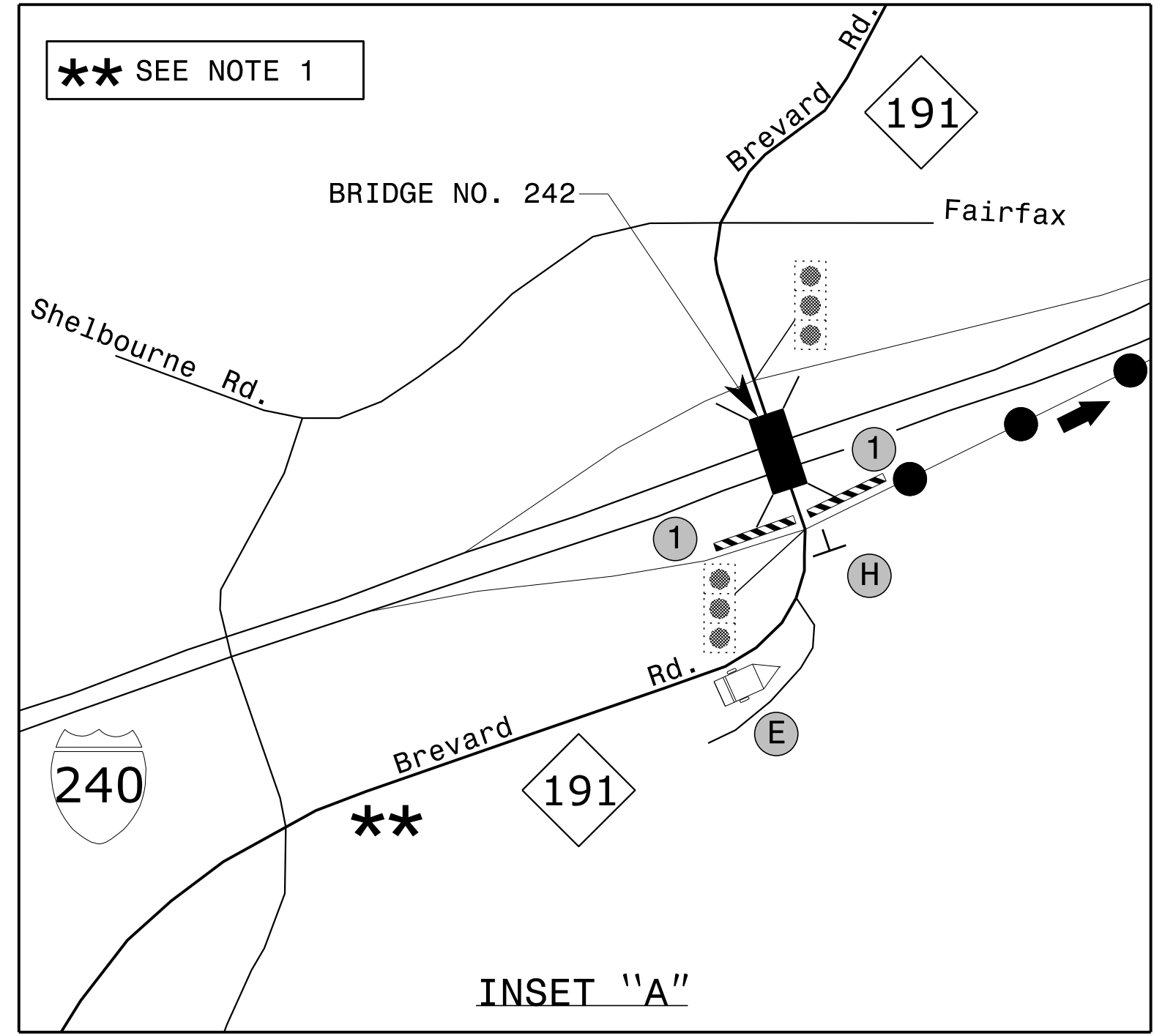
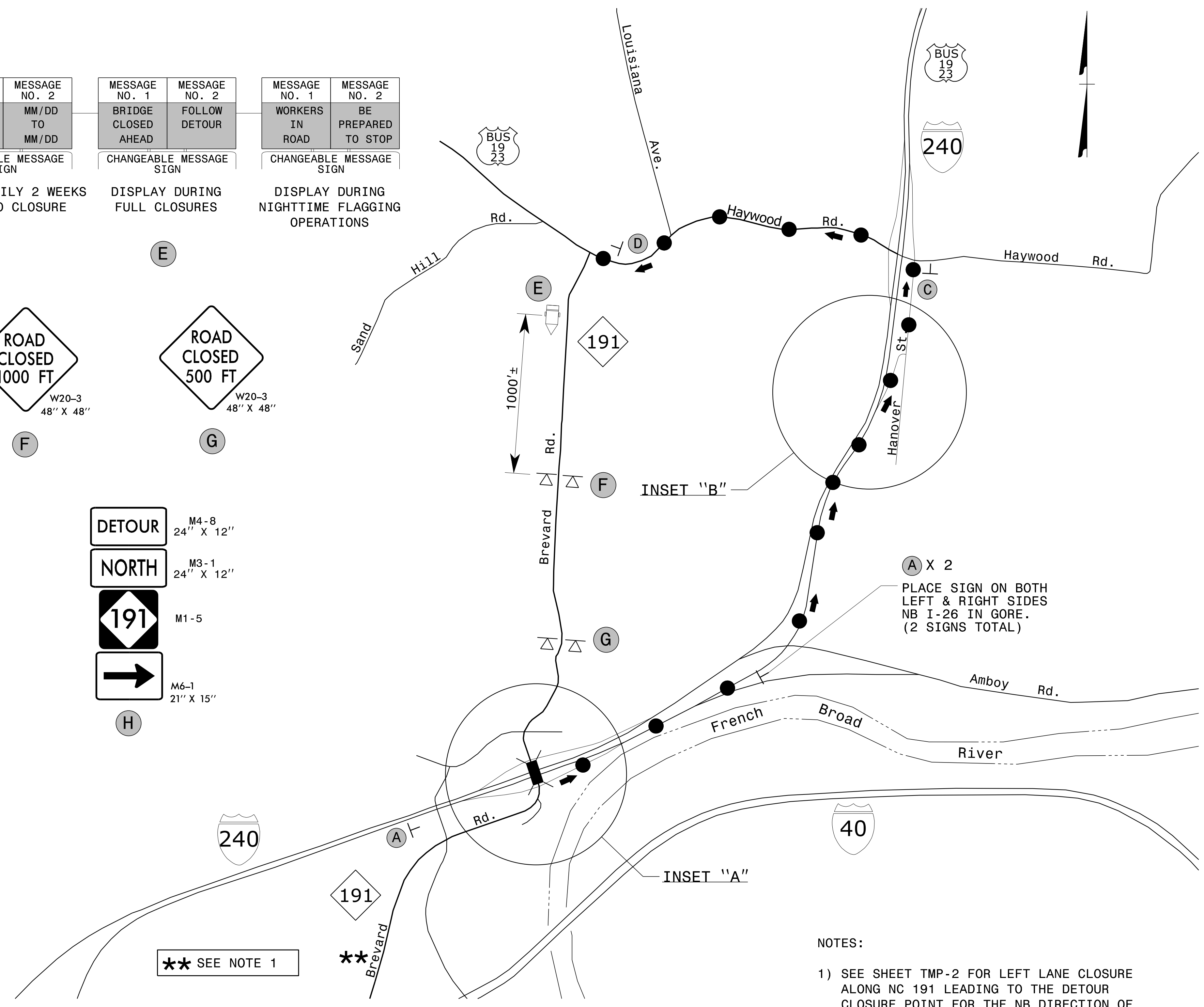
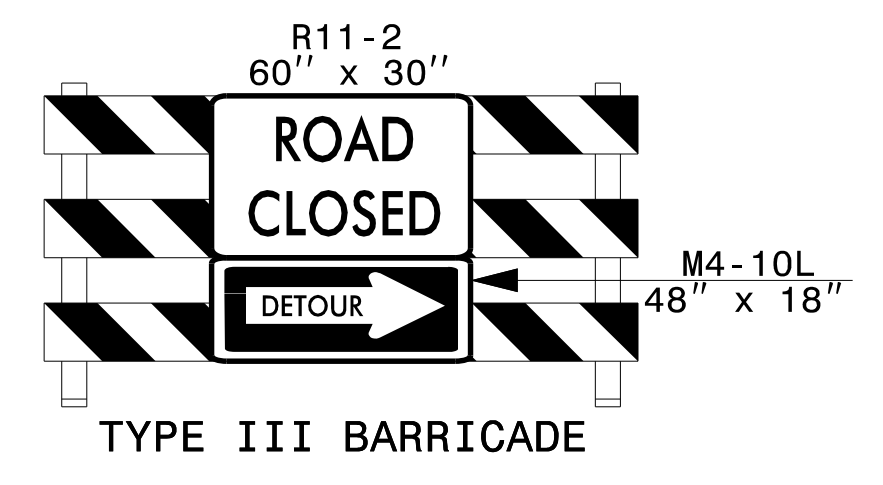
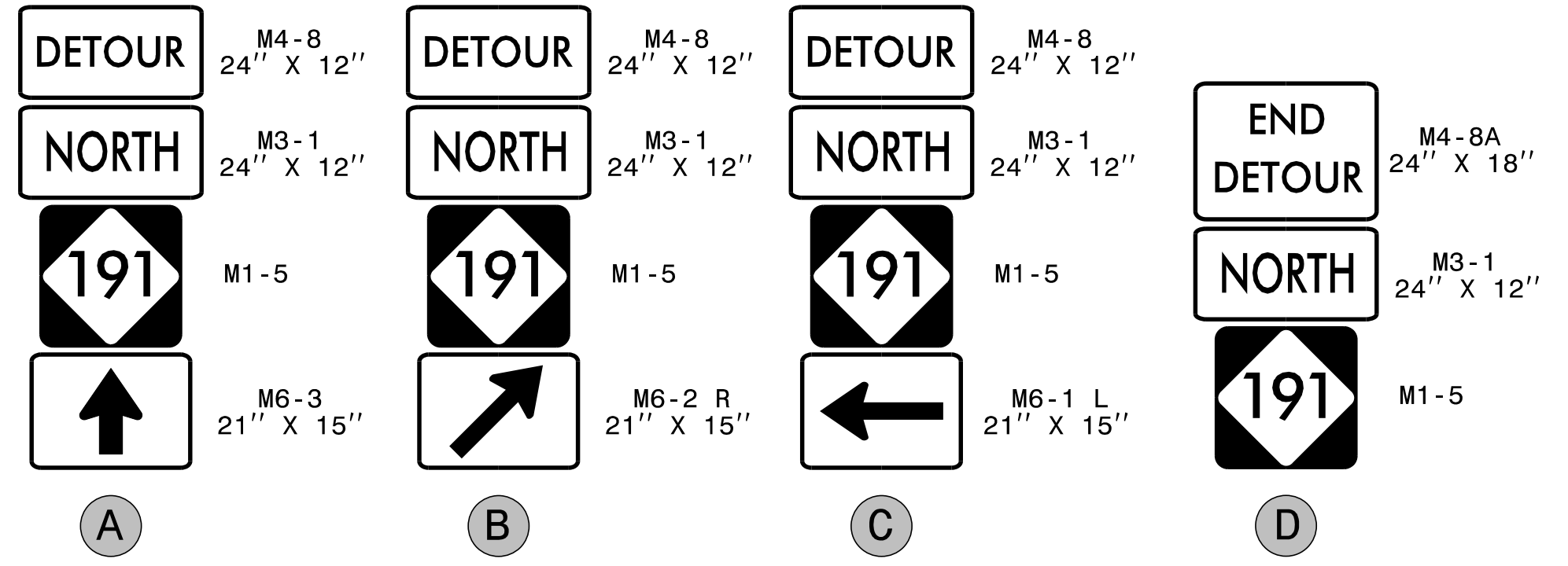
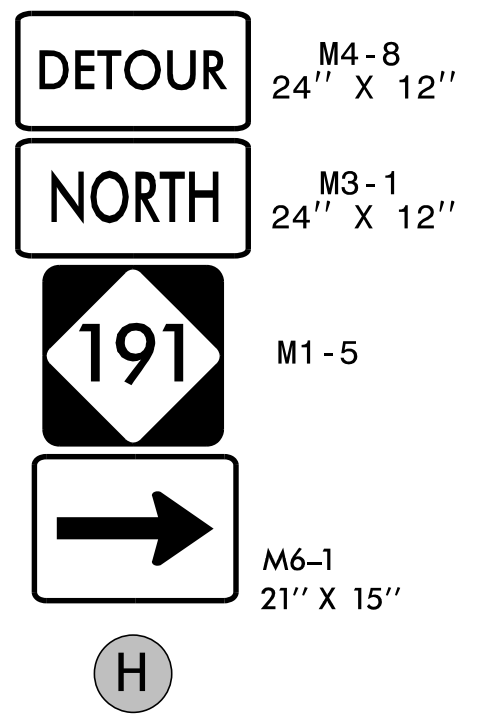
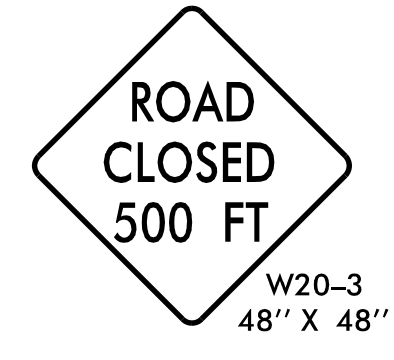
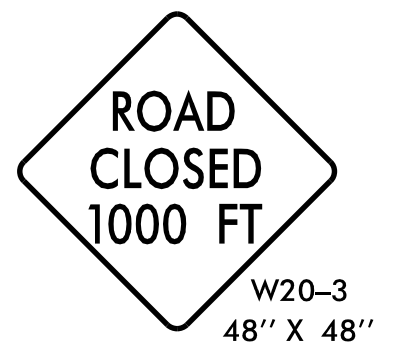
SEAL
043251
ENGINEER
DON A. PARKER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

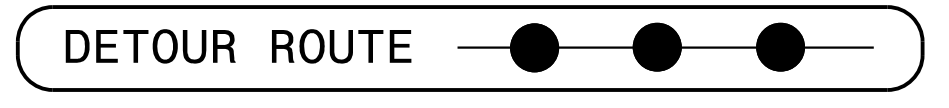


NC 191 (BREVARD RD.) NB ADVANCE WARNING SIGNS / DEVICES FOR WEEKEND CLOSURES

MESSAGE NO. 1 BRIDGE CLOSED	MESSAGE NO. 2 MM/DD TO MM/DD	MESSAGE NO. 1 BRIDGE CLOSED AHEAD	MESSAGE NO. 2 FOLLOW DETOUR	MESSAGE NO. 1 WORKERS IN ROAD	MESSAGE NO. 2 BE PREPARED TO STOP
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	
DISPLAY DAILY 2 WEEKS PRIOR TO CLOSURE		DISPLAY DURING FULL CLOSURES		DISPLAY DURING NIGHTTIME FLAGGING OPERATIONS	



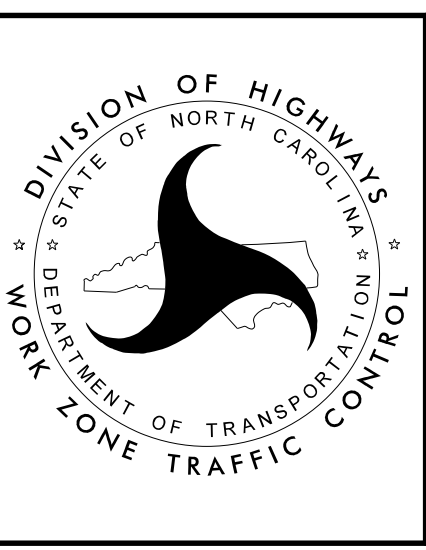
- NOTES:
- SEE SHEET TMP-2 FOR LEFT LANE CLOSURE ALONG NC 191 LEADING TO THE DETOUR CLOSURE POINT FOR THE NB DIRECTION OF TRAVEL.



APPROVED: *Don A. Parker*
 DATE: 3/26/2019

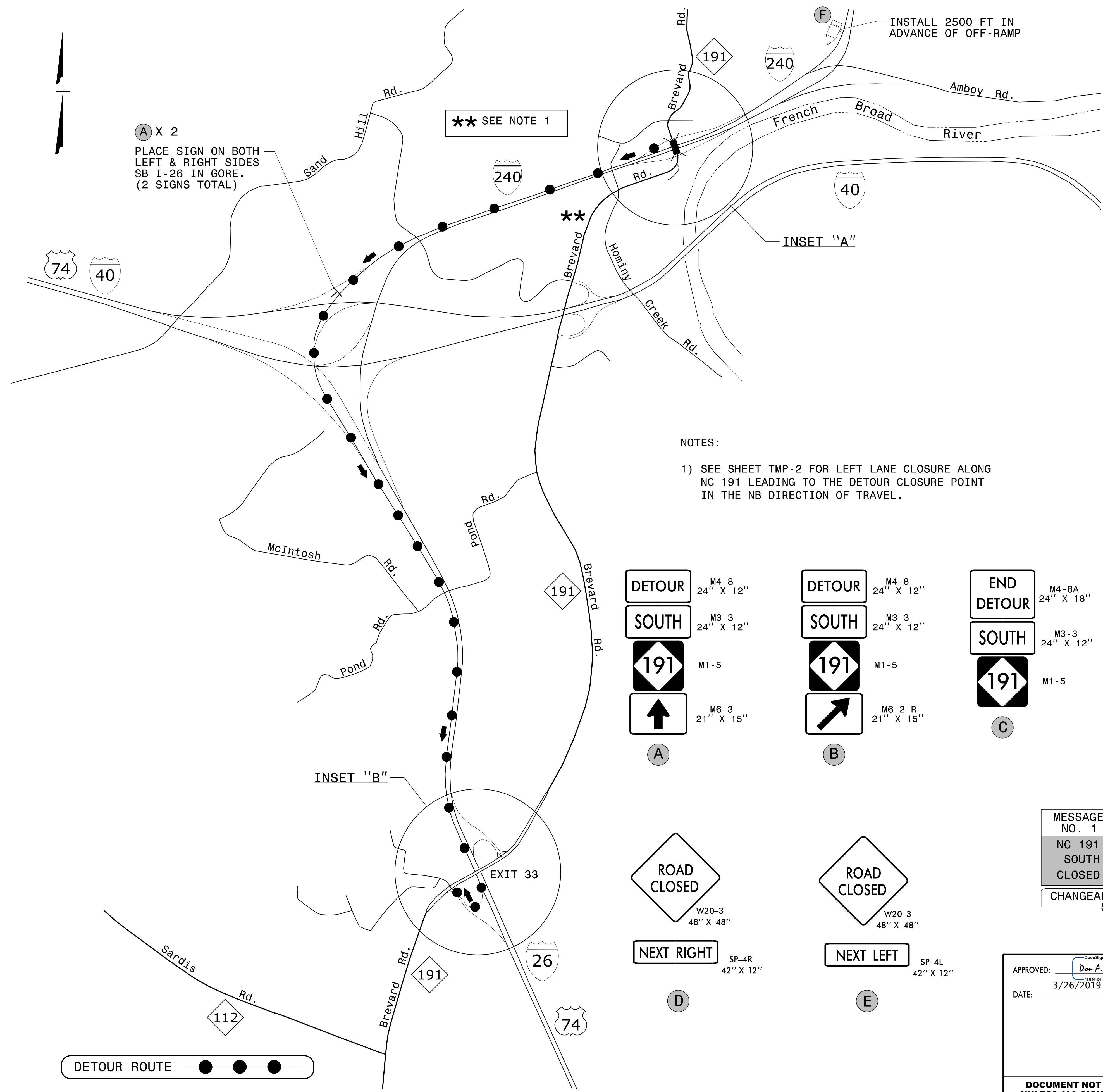
SEAL: DON A. PARKER, PROFESSIONAL ENGINEER, NO. 043251

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



OFF-SITE DETOUR
 NC 191
 (BREVARD RD.)
 NORTHBOUND

3/26/2019
 S:\TMU\WZTC\DesignGroup3\Projects\41665\IB\Traffic Control\TCP\41665\IB_TC_TMP03.dgn
 User:mgarratt



A X 2
PLACE SIGN ON BOTH LEFT & RIGHT SIDES SB I-26 IN GORE. (2 SIGNS TOTAL)

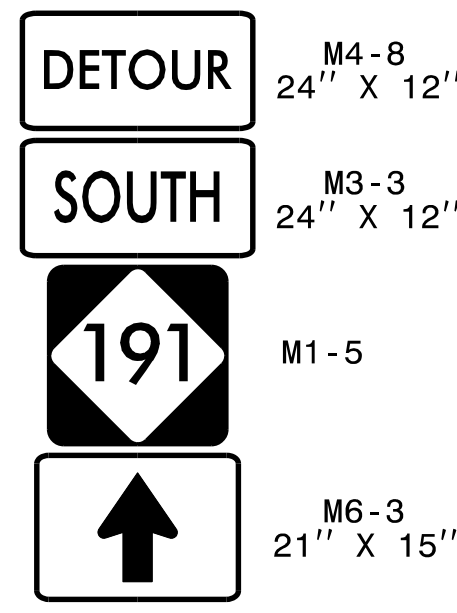
**** SEE NOTE 1**

INSTALL 2500 FT IN ADVANCE OF OFF-RAMP

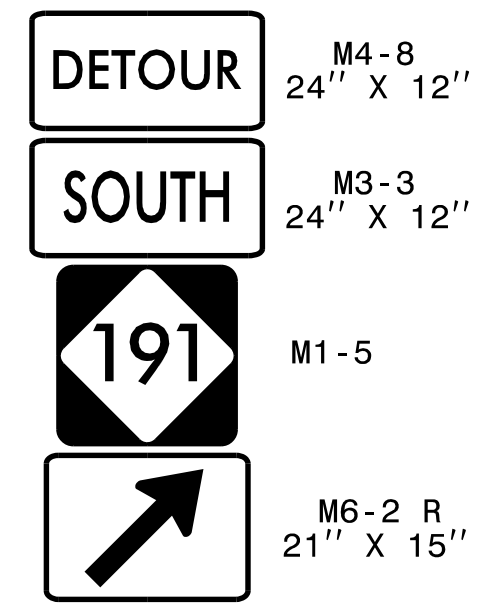
INSET "A"

NOTES:

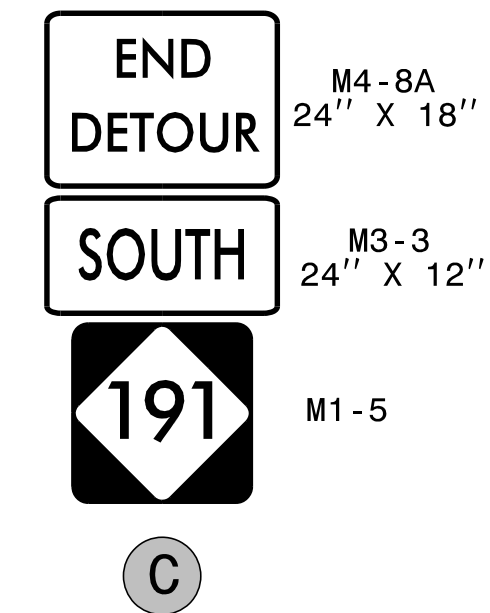
- 1) SEE SHEET TMP-2 FOR LEFT LANE CLOSURE ALONG NC 191 LEADING TO THE DETOUR CLOSURE POINT IN THE NB DIRECTION OF TRAVEL.



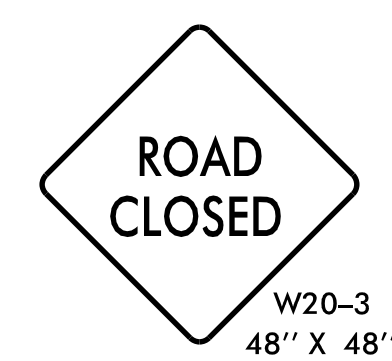
A



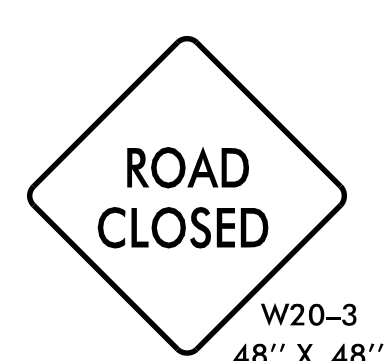
B



C



D

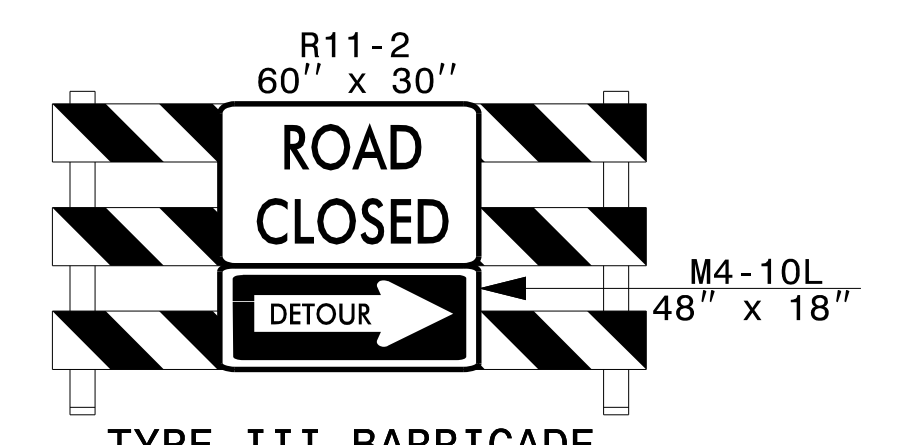


E

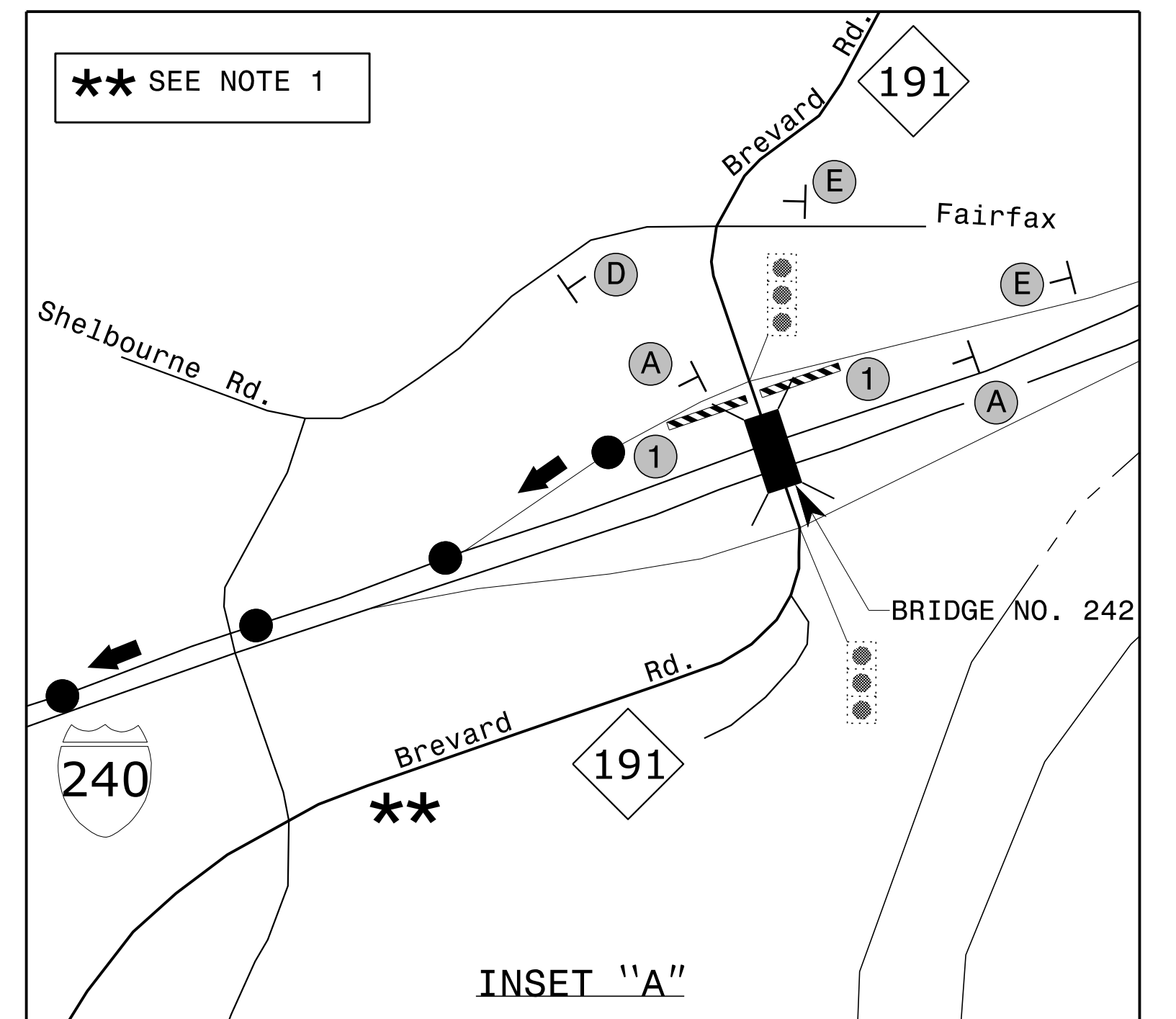
MESSAGE NO. 1	MESSAGE NO. 2
NC 191 SOUTH CLOSED	USE I-26 EXIT 33

CHANGEABLE MESSAGE SIGN

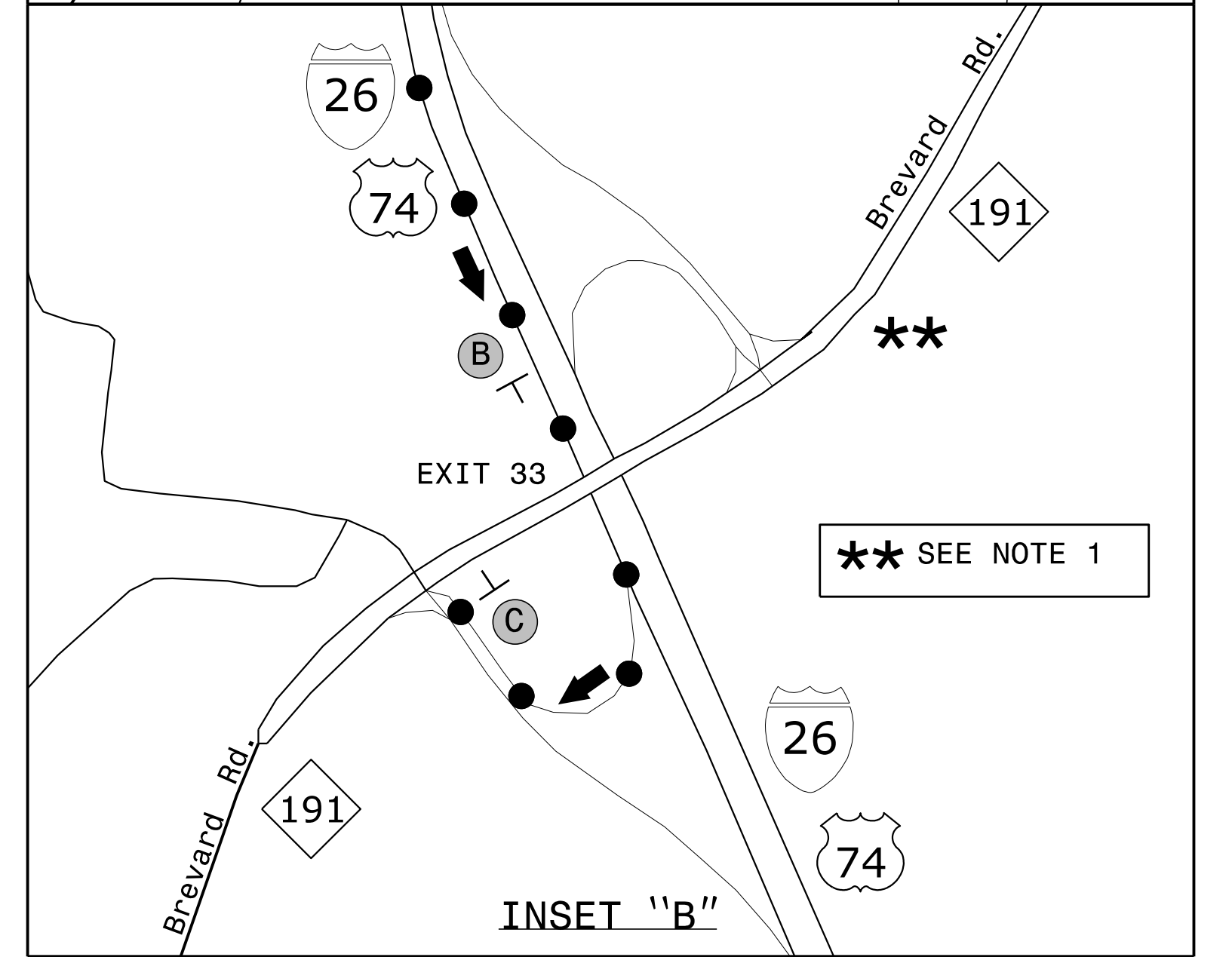
F



1



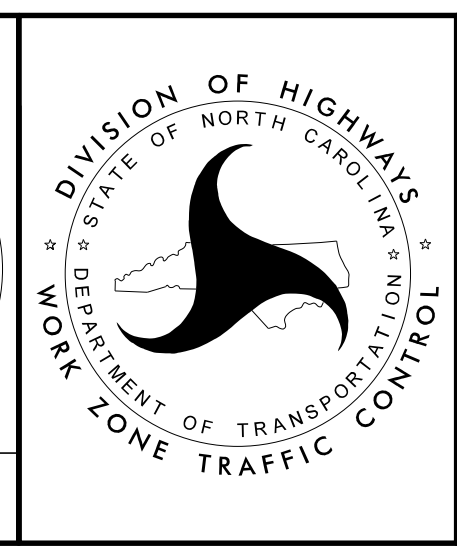
INSET "A"



INSET "B"

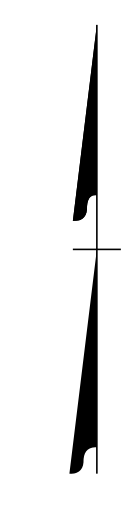
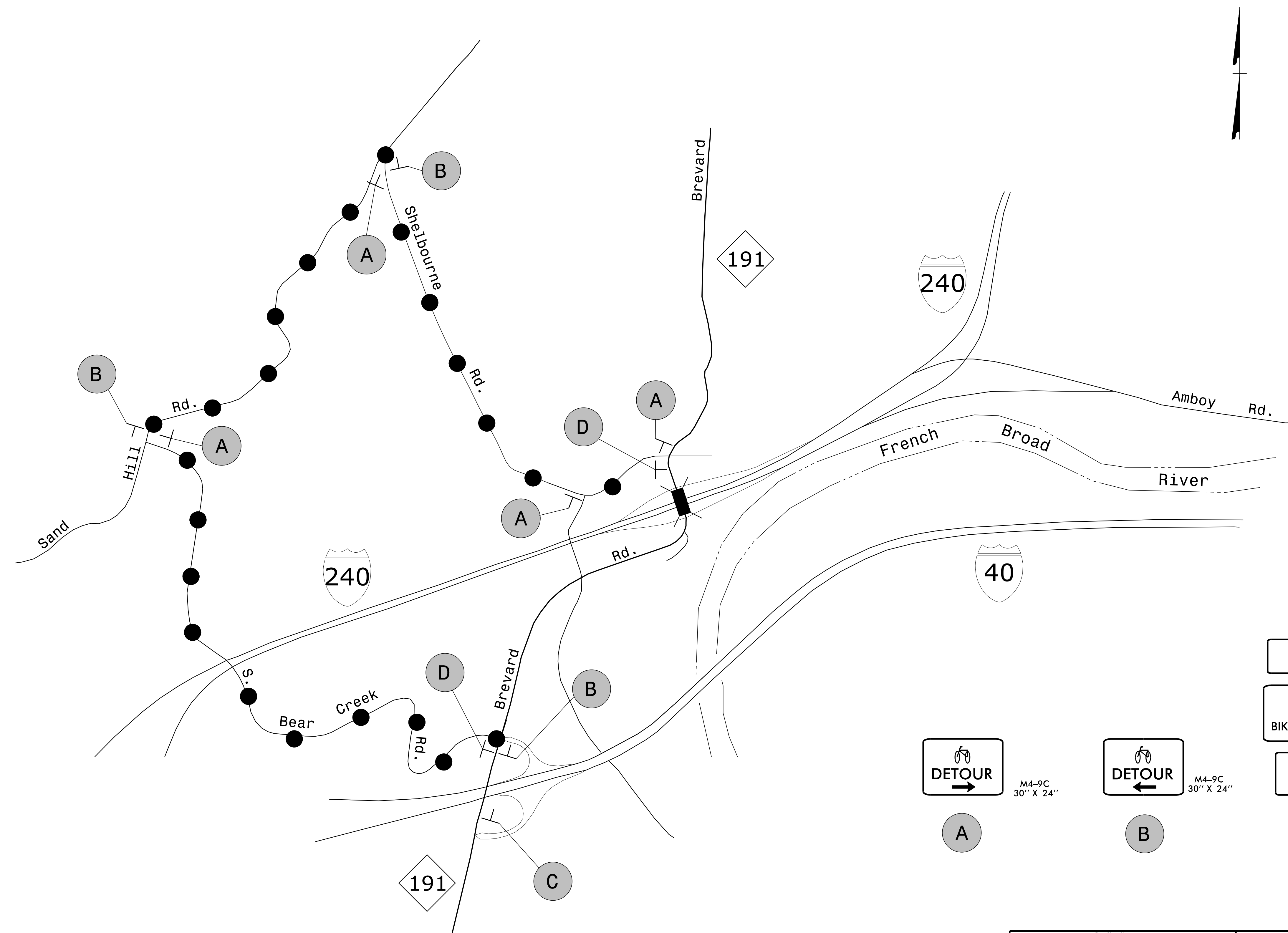
APPROVED: *Don A. Parker*
DATE: 3/26/2019

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



**OFF-SITE DETOUR
NC 191
(BREVARD RD.)
SOUTHBOUND**

3/26/2019 S:\TMU\WZTC\DesignGroup3\Projects\41665.11B\Traffic Control\TCP\41665.11B_TC_TMP04.dgn User:mgarratt



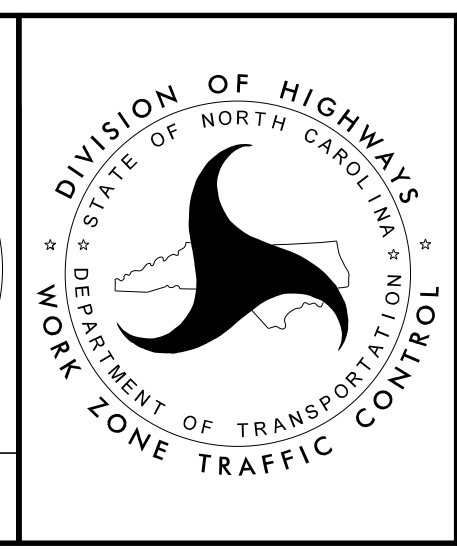
DETOUR ROUTE

M4-9C 30" X 24"	M4-9C 30" X 24"	M6-3 21" X 15"	M4-8 A 24" X 18"

3/26/2019 S:\TMU\WZTC\DesignGroup3\Projects\41665\IB\Traffic Control\TCP\41665\IB_TC_TMP05.dgn User:mgarratt

APPROVED:
 DATE: 3/26/2019

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



**BICYCLE DETOUR ROUTE
FOR NC 191
(BREVARD RD.)**

WEEKEND CLOSURES