

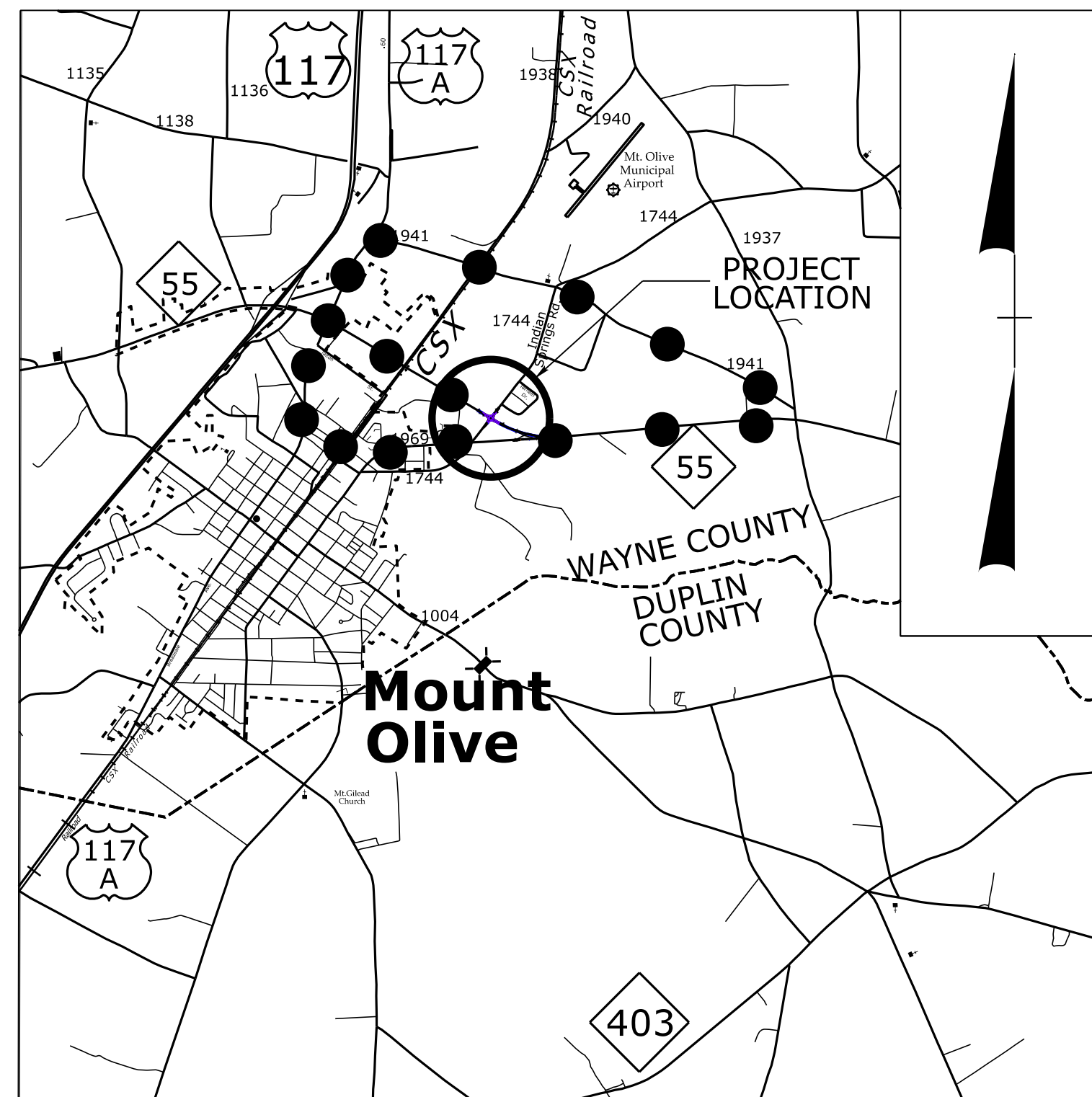
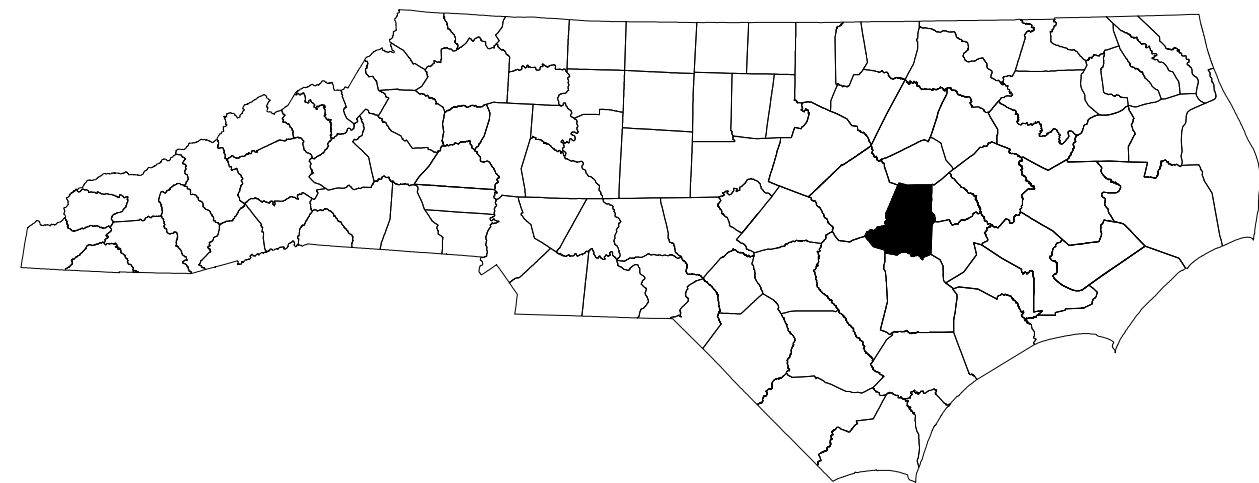
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WAYNE COUNTY

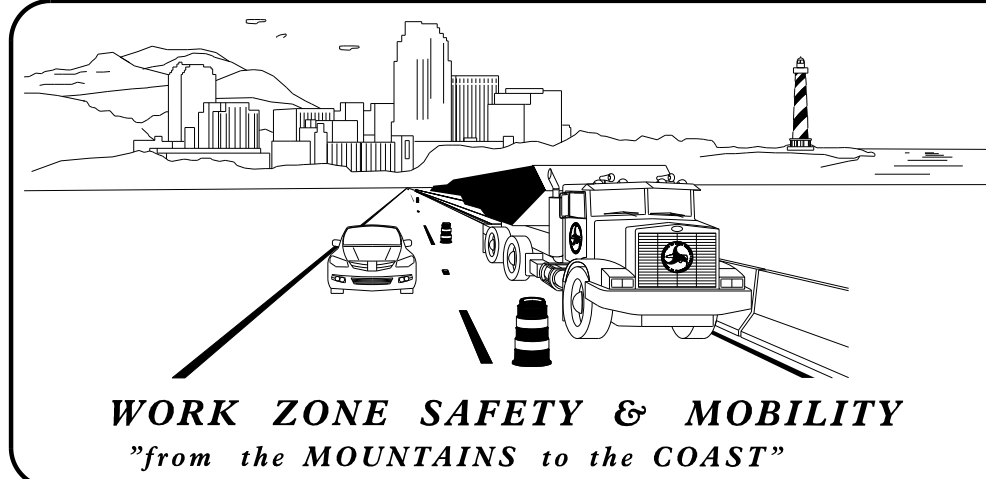
LOCATION: *NC 55 AND SR 1744 (OLD SEVEN SPRINGS ROAD
/INDIAN SPRINGS ROAD) INTERSECTION IN MOUNT OLIVE
CONSTRUCT ROUNDABOUT.*

TYPE OF WORK: *GRADING, DRAINAGE, PAVING*



VICINITY MAP (NTS)

—●—●—●— DETOUR ROUTE



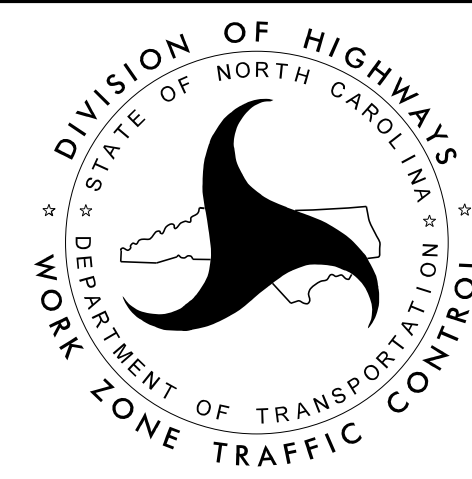
PLANS PREPARED BY:

JAMES B. VOSO, P.E.
PROJECT MANAGER

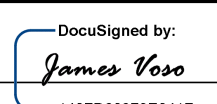
AARON C. CARVER, P.E.
PROJECT DESIGN ENGINEER

NCDOT CONTACTS:

JAKE GREEN, P.E., PLS
PROJECT MANAGER

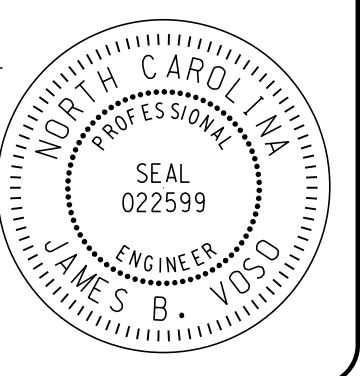


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APPROVED: 

DATE: 7/6/2026

SEAL



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: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2	PHASE I OFF SITE DETOUR ROUTE
TMP-2A	PHASE II OFF SITE DETOUR ROUTE
TMP-2B	PHASE III OFF SITE DETOUR ROUTE
TMP-2C	INDIAN SPRINGS ROAD SIGN DESIGN
TMP-3	PHASING NOTES
TMP-4	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-5	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-6	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL
TMP-7	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL
TMP-8	TEMPORARY TRAFFIC CONTROL PHASE III DETAIL
TMP-9	TEMPORARY TRAFFIC CONTROL PHASE III DETAIL
TMP-10	TEMPORARY TRAFFIC CONTROL PHASE IV DETAIL
TMP-11	TEMPORARY TRAFFIC CONTROL PHASE IV DETAIL

SHEET NO.
TMP-1

HN-0033

TIP PROJECT:

ROADWAY STANDARD DRAWINGS

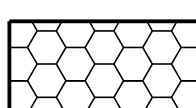
THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

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
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	POSITIVE PROTECTION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPs
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1205.15	PAVEMENT MARKINGS - REDUCED CONFLICT INTERSECTIONS
1205.16	BICYCLE FACILITIES
1205.17	PAVEMENT MARKINGS - SIDE-BY-SIDE/ADJACENT ON/OFF RAMPs
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
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION
1266.01	RAISED PAVEMENT MARKERS - TUBULAR MARKERS
1267.01	FLEXIBLE DELINEATORS - INSTALLATION
1267.02	FLEXIBLE DELINEATORS - SPACING TABLES
1267.03	FLEXIBLE DELINEATORS - INTERCHANGE PLACEMENT

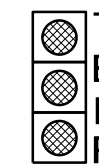
LEGEND

GENERAL

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

-  WORK AREA
-  TEMPORARY PAVEMENT
-  PAVEMENT REMOVAL
-  WEDGING

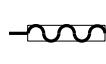
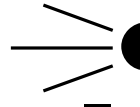
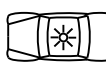
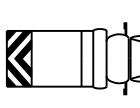
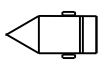
SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY

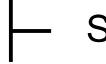
PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES

TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM  SKINNY DRUM  TUBULAR MARKER
-  TEMPORARY CRASH CUSHION
-  TEMPORARY CRASH CUSHION (NON-GATING)
-  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

SYMBOL	DESCRIPTION
PAINT	
P20	WHITE EDGE LINE (6")
P23	3FT - 9FT/SP WHITE MINISKIP (6")
P30	YELLOW EDGE LINE (6")
P33	YELLOW DOUBLE CENTER (6")
P40	WHITE GORELINE (8")
P61	WHITE STOP BAR (24")
P70	LEFT TURN ARROW
P73	COMBO. LEFT/STRAIGHT ARROW

GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
HN-0033	TMP-1B

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 UNDESIRE 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
E NC-55 HWY	MONDAY THROUGH FRIDAY 7:00 AM to 9:00 AM & 4:00 PM to 6:00 PM

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

ROAD NAME
E NC-55 HWY

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 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.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 P.M. THURSDAY AND 7:00 A.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- 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.
- FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
- 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 WITHIN 5 FT OF AN OPEN TRAVEL LANE ON AN UNDIVIDED FACILITY, 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 WITHIN 10 FT OF AN OPEN TRAVEL LANE ON A DIVIDED FACILITY, 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 1 SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON E NC-55 HWY.

PAVEMENT EDGE DROP OFF REQUIREMENTS

J) 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.

K) 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

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

SIGNING

M) 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.

N) 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.

O) 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.

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

Q) 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.

TRAFFIC BARRIER

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

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

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

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

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

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

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

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

T) USE NON-GATING CRASH CUSHIONS AS REQUIRED IN THE TMP.

TRAFFIC CONTROL DEVICES

U) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

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

W) 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

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

ROAD NAME	MARKING	MARKER
E NC-55 HWY	PAINT	NONE
INDIAN SPRINGS RD	PAINT	NONE

Y) 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.

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

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

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

MISCELLANEOUS

CC) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 500 FT AND 500 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

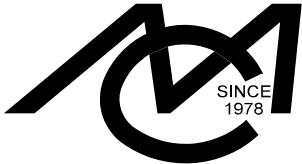
DD) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

LOCAL NOTES

CONTRACTOR TO MAINTAIN DRIVEWAY ACCESS AT ALL TIMES. COORDINATE WITH WAYNE COUNTY SCHOOLS, MOUNT OLIVE FIRE DEPARTMENT, WAYNE COUNTY SHERIFF'S OFFICE, DUDLEY FIRE DEPARTMENT, AND MOUNT OLIVE EMS. COORDINATE WITH LOCAL FARM OPERATIONS.

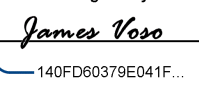
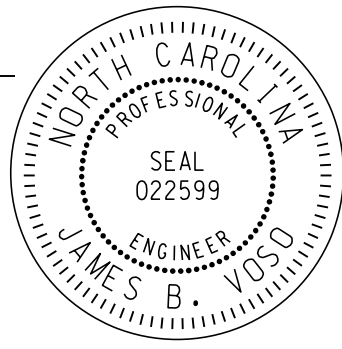
MANAGEMENT STRATEGIES

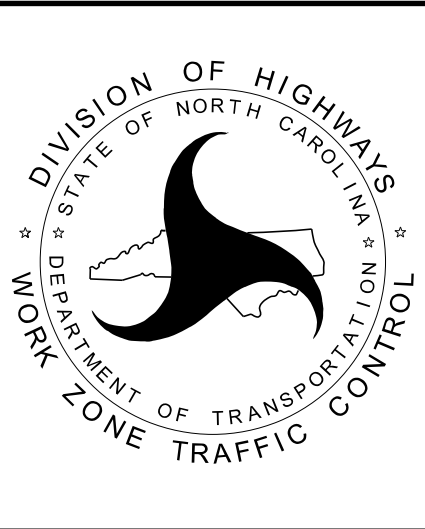
THE PROPOSED NC 55 AND SR 1744 INTERSECTION AND ROUNDABOUT WILL BE CONSTRUCTED USING A COMBINATION OF ROAD CLOSURES, TEMPORARY LANE AND SHOULDER CLOSURES,TRAFFIC SHIFTS AND FLAGGERS AS NEEDED.



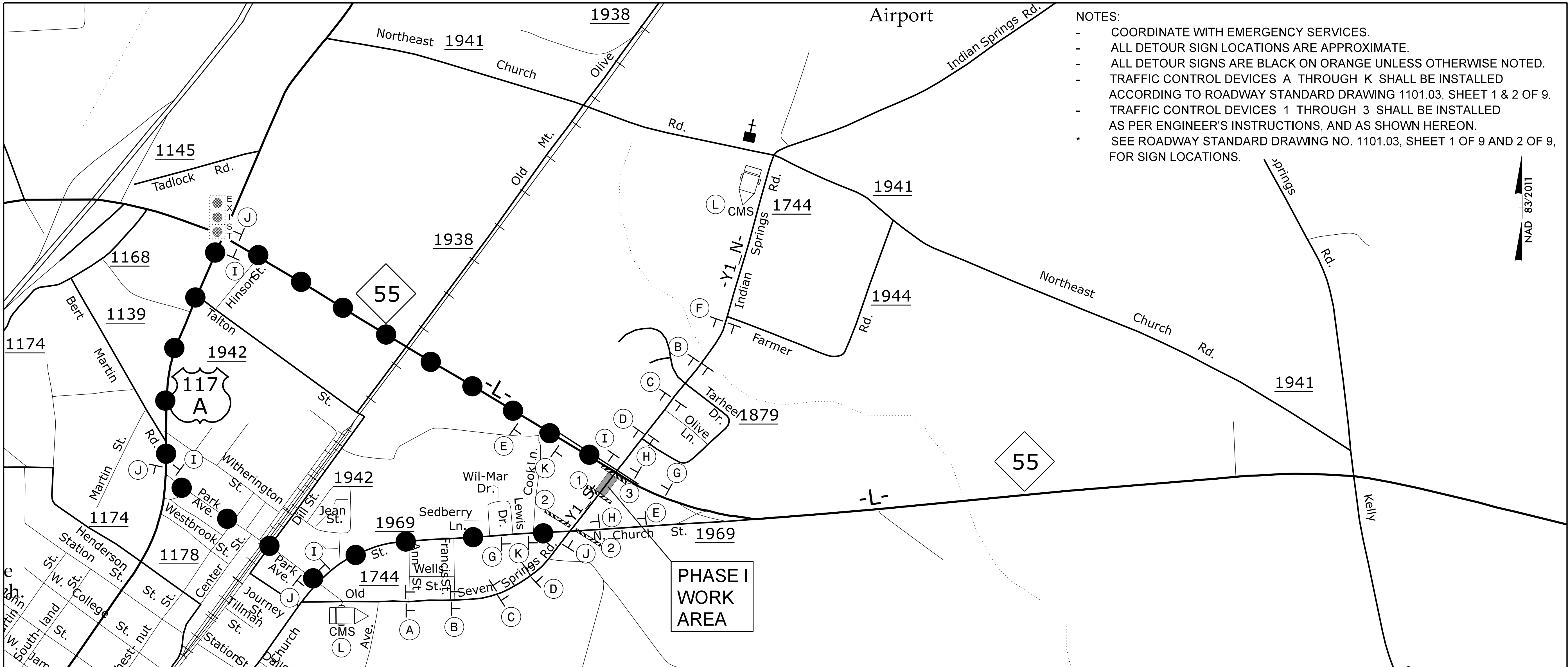
Mattern & Craig

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TRANSPORTATION
OPERATIONS
PLAN



- NOTES:
- COORDINATE WITH EMERGENCY SERVICES.
 - ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
 - ALL DETOUR SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
 - TRAFFIC CONTROL DEVICES A THROUGH K SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING 1101.03, SHEET 1 & 2 OF 9.
 - TRAFFIC CONTROL DEVICES 1 THROUGH 3 SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTIONS, AND AS SHOWN HEREON.
 - * SEE ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9 AND 2 OF 9, FOR SIGN LOCATIONS.

(A) (2 EA)

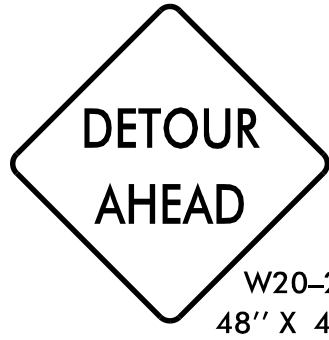


W20-3
48" X 48"

0.2
MILES

W16-3P
24" X 24"

(B) (4 EA)



W20-2
48" X 48"

(C) (4 EA)



W20-3
48" X 48"

(D) (4 EA)



W20-3
48" X 48"

(E) (2 EA)



W20-3
48" X 48"

(F) (2 EA)



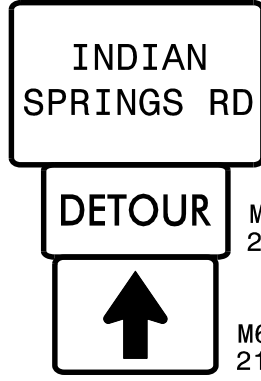
W20-3
48" X 48"

(G) (2 EA)



W20-3
48" X 48"

(H) (2 EA)

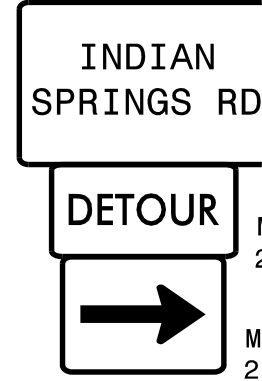


SP-1
60" X 30"

M4-8
24" X 12"

M6-3
21" X 15"

(I) (3 EA)

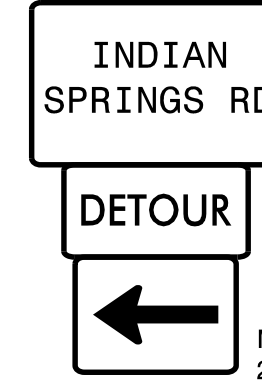


SP-1
60" X 30"

M4-8
24" X 12"

M6-1
21" X 15"

(J) (3 EA)

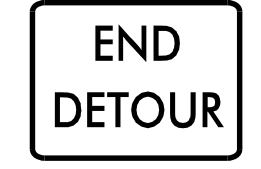


SP-1
60" X 30"

M4-8
24" X 12"

M6-1
21" X 15"

(K) (2 EA)



M4-8A
24" X 18"

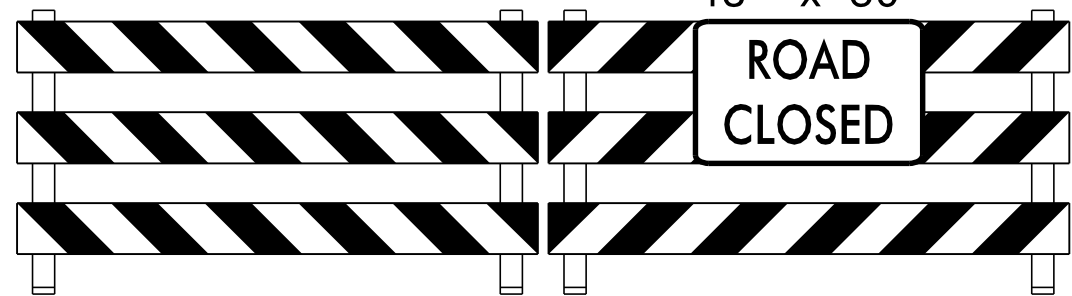
MESSAGE PRIOR TO CLOSURE:

MESSAGE NO. 1	MESSAGE NO. 2
INDIAN SPRINGS RD WILL BE CLOSED	STARTING (DAY) (TIME)
CHANGEABLE MESSAGE SIGN	CHANGEABLE MESSAGE SIGN

MESSAGE DURING CLOSURE:

MESSAGE NO. 1	MESSAGE NO. 2
INDIAN SPRINGS RD CLOSED XX MI	FOLLOW POSTED DETOUR
CHANGEABLE MESSAGE SIGN	CHANGEABLE MESSAGE SIGN

(1) (1 EA)

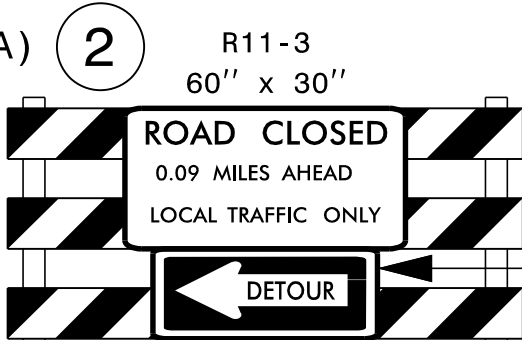


R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE(S)

(2) (2 EA)



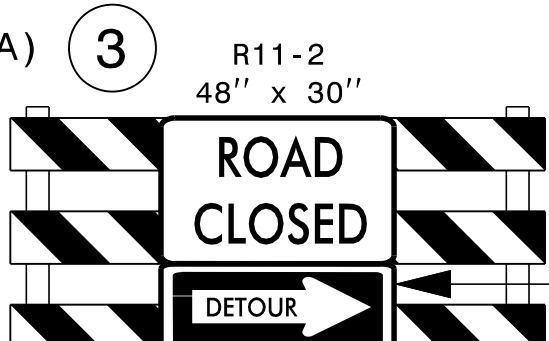
R11-3
60" X 30"

ROAD CLOSED
0.09 MILES AHEAD
LOCAL TRAFFIC ONLY

DETOUR

TYPE III BARRICADE

(3) (4 EA)

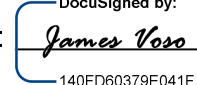


R11-2
48" X 30"

ROAD CLOSED

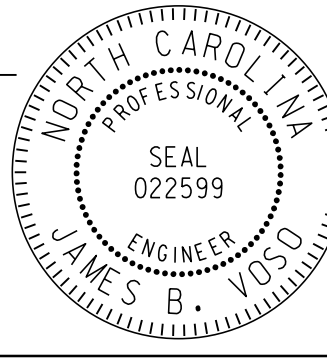
DETOUR

TYPE III BARRICADE

APPROVED: 

DATE: 7/6/2026

SEAL





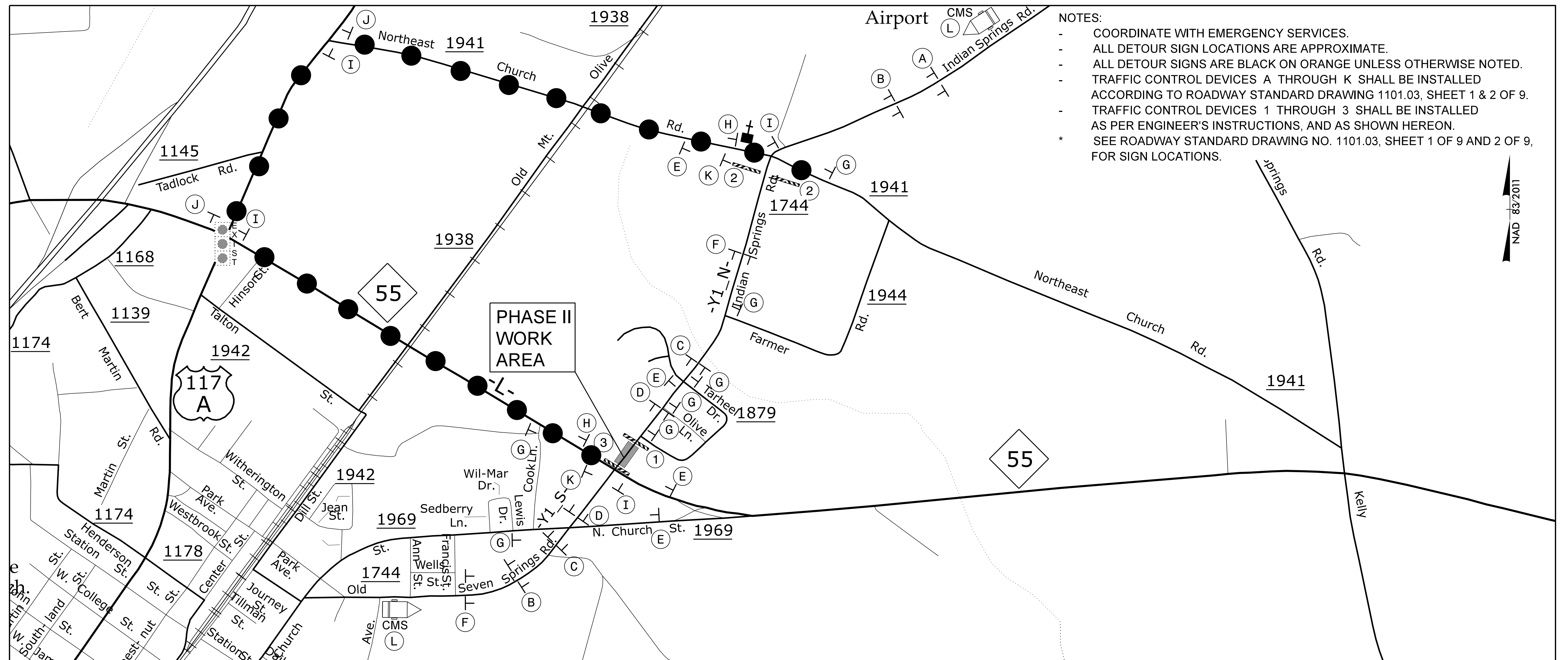
-Y1_S- SR 1744
(INDIAN SPRINGS RD)
OFF-SITE DETOUR
AND ROAD CLOSURE
PHASE I



Mattern & Craig
ENGINEERS-SURVEYORS

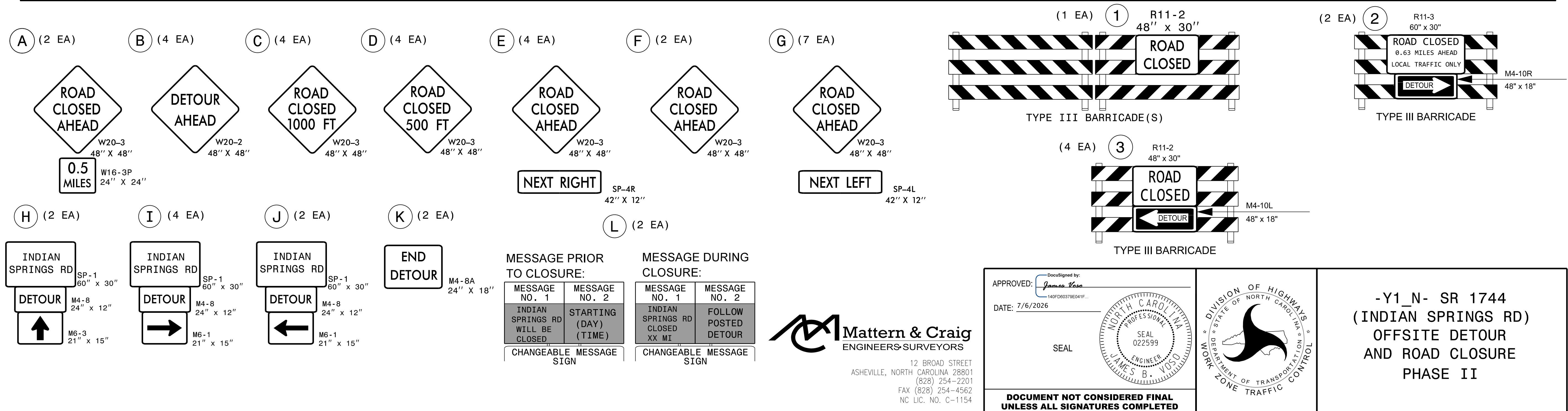
12 BROAD STREET
ASHEVILLE, NORTH CAROLINA 28801
(828) 254-2201
FAX (828) 254-4562
NC LIC. NO. C-1154

9:37:29 AM
I:\4596 - HN-0033 Roundabout\03 Design\TrafficControl\CP\HN-0033_DETOUT_TMP_2.dgn
bgross



NOTES:

- COORDINATE WITH EMERGENCY SERVICES.
- ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
- ALL DETOUR SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
- TRAFFIC CONTROL DEVICES A THROUGH K SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING 1101.03, SHEET 1 & 2 OF 9.
- TRAFFIC CONTROL DEVICES 1 THROUGH 3 SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTIONS, AND AS SHOWN HEREON.
- * SEE ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9 AND 2 OF 9, FOR SIGN LOCATIONS.

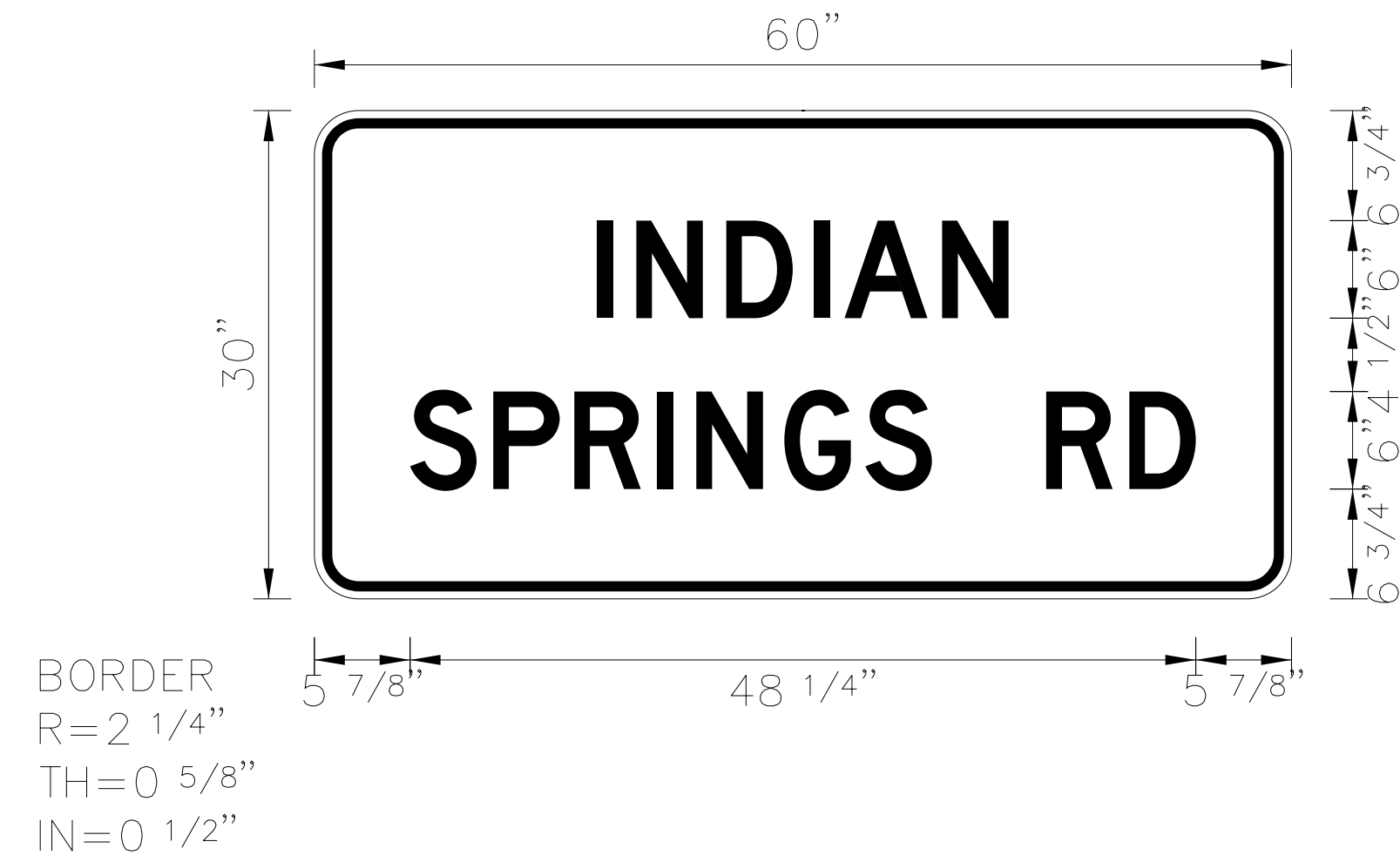


SIGN NUMBER: SP-1
TYPE: D
QUANTITY: SEE PLANS
SIGN WIDTH: 5'-0"
HEIGHT: 2'-6"
TOTAL AREA: 15.5 Sq.Ft.
BORDER TYPE: RECESSED
RECESS: 0.5"
WIDTH: 0.625"
RADII: 2.25"

DESIGN BY: KGE
PROJECT ID: HN-0033

CHECKED BY: JBV
DIV: 4

DATE: Apr 23, 2026



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

[illegible]

NORTH CAROLINA D.O.T. SIGN DETAIL

7:39:48 AM
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jbvoso

PHASING NOTES

PROJ. REFERENCE NO.	SHEET NO.
HN-0033	TMP-3

MAINTAIN ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION. COORDINATE WITH PROPERTY OWNERS AS NEEDED DURING DRIVEWAY CONSTRUCTION.

NOTE: BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL:

- PLACE ADVANCE WORK ZONE WARNING SIGNS ALONG EXISTING E NC-55 HWY (-L-) AND ALL -Y- LINES IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1101.01.
- INSTALL ONE (1) CHANGEABLE MESSAGE SIGN (CMS) PER DIRECTION ON E NC-55 HWY (-L-), -Y- LINES AND AS DIRECTED BY THE ENGINEER. THESE CHANGEABLE MESSAGE SIGNS ARE TO BE UTILIZED TO INFORM AND ALERT THE TRAVELING PUBLIC TO TRAFFIC CONDITIONS AND ARE IN ADDITION TO OTHER CHANGEABLE MESSAGE SIGNS THAT ARE REQUIRED FOR TRAFFIC CONTROL OPERATIONS DURING CONSTRUCTION.

CONTRACTOR SHALL CONSTRUCT ALL PAVEMENT (TEMPORARY AND/OR PROPOSED) TO MAINTAIN DRAINAGE AND NOT POND WATER IN THE TRAFFIC LANES.

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

CONTRACTOR SHALL NOT WORK SIMULTANEOUSLY ON BOTH SIDES OF AN OPEN TRAVEL-WAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PHASE 1

STEP 1: WITH TRAFFIC IN THE EXISTING PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 1 OF 19, INSTALL DRAINAGE IN LOCATIONS CROSSING E NC-55 HWY (-L-) AS INDICATED IN THE PLANS.

STEP 2: WITH TRAFFIC IN THE EXISTING PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 1 OF 19, INSTALL PORTABLE CONCRETE BARRIERS W/ NON-GATING CRASH CUSHIONS E NC-55 HWY (-L-) AS INDICATED IN THE PLANS IN THE FOLLOWING LOCATIONS:

STA. 23+10 +/- -L- TO STA 25+10 +/- -L- (RIGHT SIDE)
STA. 31+40 +/- -L- TO STA 33+05 +/- -L- (RIGHT SIDE)

STEP 3: WITH TRAFFIC IN THE EXISTING PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 1 OF 19, CONSTRUCT WEDGING AND WIDENING OF E NC-55 HWY (-L-) AS INDICATED IN THE PLANS, BUT NOT INCLUDING THE FINAL SURFACE COURSE AS FOLLOWS:

STA. 23+10 +/- -L- TO STA 33+10 +/- -L- (RIGHT SIDE)

STEP 4: REMOVE PORTABLE CONCRETE BARRIERS W/ NON-GATING CRASH CUSHIONS ON E NC-55 HWY (-L-) AS INDICATED IN THE PLANS.

CONTRACTOR SHALL COMPLETE THE WORK REQUIRED OF PHASE 1, STEPS 5-7 IN 30 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 5: USING ROADWAY STANDARD 1101.02, SHEET 1 OF 19, INSTALL DETOUR SIGNING AS SHOWN ON TMP-2 AND RSD 1101.03 SHEETS 1 & 2, CLOSE -Y1_S- INDIAN SPRINGS ROAD (SOUTH) TO THRU TRAFFIC.

STEP 6: WITH E NC-55 HWY -L- TRAFFIC IN THE EXISTING PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 1 OF 19, CONSTRUCT DRAINAGE, WEDGING, MILLING, AND WIDENING OF -L- RT, -Y1_S- AND -RAB- (SOUTH) AS INDICATED IN THE PLANS, BUT NOT INCLUDING THE FINAL SURFACE COURSE OR MEDIAN WORK AS FOLLOWS:

STA. 11+75 +/- -L- TO STA 20+30 +/- -L- (RIGHT SIDE)
STA. 10+00 +/- -Y1_S- TO STA 13+25 +/- -Y1_S- (SOUTH OF -L-)
STA. 10+10 +/- -RAB- TO STA 11+55 +/- -RAB- (RIGHT OF -L- EOP)

STEP 7: INSTALL TEMPORARY PAVEMENT MARKINGS AS NECESSARY AND OPEN -Y1_S- INDIAN SPRINGS ROAD (SOUTH) TO TWO-LANE, TWO-WAY TRAFFIC. REMOVE OR COVER ALL DETOURS SIGNS.

PHASE 2

STEP 1: WITH TRAFFIC IN THE EXISTING PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 1 OF 19, CONSTRUCT WEDGING AND WIDENING OF E NC-55 HWY (-L-) AS INDICATED IN THE PLANS, BUT NOT INCLUDING THE FINAL SURFACE COURSE AS FOLLOWS:

STA. 23+10 +/- -L- TO STA 34+90 +/- -L- (LEFT SIDE)

CONTRACTOR SHALL COMPLETE THE WORK REQUIRED OF PHASE 2, STEPS 2-4 IN 30 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 2: USING ROADWAY STANDARD 1101.02, SHEET 1 OF 19, INSTALL DETOUR SIGNING AS SHOWN ON TMP-2A AND RSD 1101.03 SHEETS 1 & 2, CLOSE -Y1_N- INDIAN SPRINGS ROAD (NORTH) TO THRU TRAFFIC.

STEP 3: WITH E NC-55 HWY -L- TRAFFIC IN THE EXISTING PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 1 OF 19, CONSTRUCT DRAINAGE, WEDGING, MILLING, AND WIDENING OF -L- LT, -Y1_N- (NORTH) AND -RAB- (NORTH) AS INDICATED IN THE PLANS, BUT NOT INCLUDING THE FINAL SURFACE COURSE OR MEDIAN WORK AS FOLLOWS:

STA. 11+75 +/- -L- TO STA 20+30 +/- -L- (LEFT SIDE)
STA. 13+50 +/- -Y1_N- TO STA 17+00 +/- -Y1_N- (NORTH OF -L-)
STA. 10+10 +/- -RAB- TO STA 11+55 +/- -RAB- (LEFT OF -L- EOP)

STEP 4: INSTALL TEMPORARY PAVEMENT MARKINGS AS NECESSARY AND OPEN -Y1_N- INDIAN SPRINGS ROAD (NORTH) TO TWO-LANE, TWO-WAY TRAFFIC. REMOVE OR COVER ALL DETOURS SIGNS.

PHASE 3

STEP 1: WITH E NC-55 HWY -L- AND SR 1968 CHURCH ST -Y2- TRAFFIC IN THE EXISTING PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 1 OF 19, CONSTRUCT DRAINAGE, WEDGING, MILLING, TEMPORARY PAVING AND WIDENING OF -L- E NC-55 HWY AND SR 1969 N CHURCH ST AS INDICATED IN THE PLANS, BUT NOT INCLUDING THE FINAL SURFACE COURSE OR MEDIAN WORK AS FOLLOWS:

STA. 33+00 +/- -L- TO STA 37+00 +/- -L-
STA. 25+10 +/- -Y2- TO STA 30+30 +/- -Y2- (TEMPORARY PAVEMENT LT)

CONTRACTOR SHALL COMPLETE THE WORK REQUIRED OF PHASE 3, STEPS 2-4 IN 21 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 2: USING ROADWAY STANDARD 1101.02, SHEET 1 OF 19, INSTALL DETOUR SIGNING AS SHOWN ON TMP-2B AND RSD 1101.03 SHEETS 1 & 2, CLOSE -Y1_S- & -Y1_S- INDIAN SPRINGS ROAD AND E NC-55 HWY TO THRU TRAFFIC.

STEP 3: CONSTRUCT MEDIAN WORK, CENTER ISLAND WORK, FINAL SURFACE COURSE AND FINAL PAVEMENT MARKINGS OF E NC-55 HWY, -Y1_S- & -Y1_N- INDIAN SPRINGS ROAD WHILE DETOUR SHOWN ON SHEET TMP-2B IS IN PLACE, AS FOLLOWS:

STA. 11+75 +/- -L- TO STA 24+25 +/- -L-
STA. 10+00 +/- -Y1_S- TO STA 13+25 +/- -Y1_S-
STA. 13+50 +/- -Y1_N- TO STA 17+12.62 +/- -Y1_N-
STA. 10+00 +/- -RAB- TO STA 15+36.19 +/- -RAB-

STEP 4: OPEN -Y1_S- & -Y1_N- INDIAN SPRINGS ROAD AND -L- E NC-55 HWY TO FINAL TWO-LANE, TWO-WAY TRAFFIC PATTERN WHILE SIMULTANEOUSLY CLOSING SR 1969 N CHURCH ST AND CROSSOVERS TO THRU TRAFFIC AS SHOWN ON TMP-11. REMOVE ALL DETOURS SIGNS.

PHASE 4

STEP 1: WITH E NC-55 HWY -L- TRAFFIC IN THE FINAL PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 1 OF 19, PERFORM PAVEMENT REMOVAL AS SHOWN ON SHEET TMP-11 AND AS FOLLOWS:

E NC-55 HWY / SR 1968 CHURCH ST CROSSOVERS (2)
STA. 27+30 +/- -Y2- TO STA 35+00 +/- -Y2-

STEP 2: WITH E NC-55 HWY -L- TRAFFIC IN THE FINAL PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 1 OF 19, CONSTRUCT DRAINAGE, WEDGING, MILLING, WIDENING AND PAVEMENT MARKINGS OF -Y2-, -DRWY1- AND DRIVEWAY TIES AS INDICATED IN THE PLANS, INCLUDING THE FINAL SURFACE COURSE AS FOLLOWS:

STA. 24+00 +/- -Y2- TO STA 27+30 +/- -Y2- (CUL-DE-SAC)
STA. 10+00 +/- -DRWY1- TO STA 10+95 +/- -DRWY1-
OTHER MINOR DRIVEWAY TIES

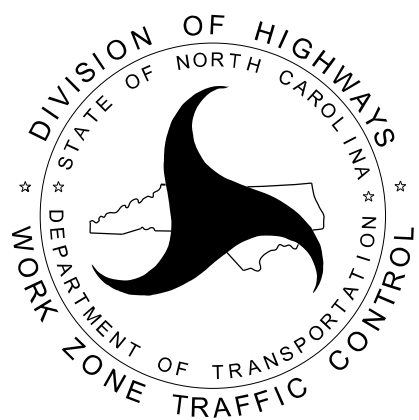
STEP 3: REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.



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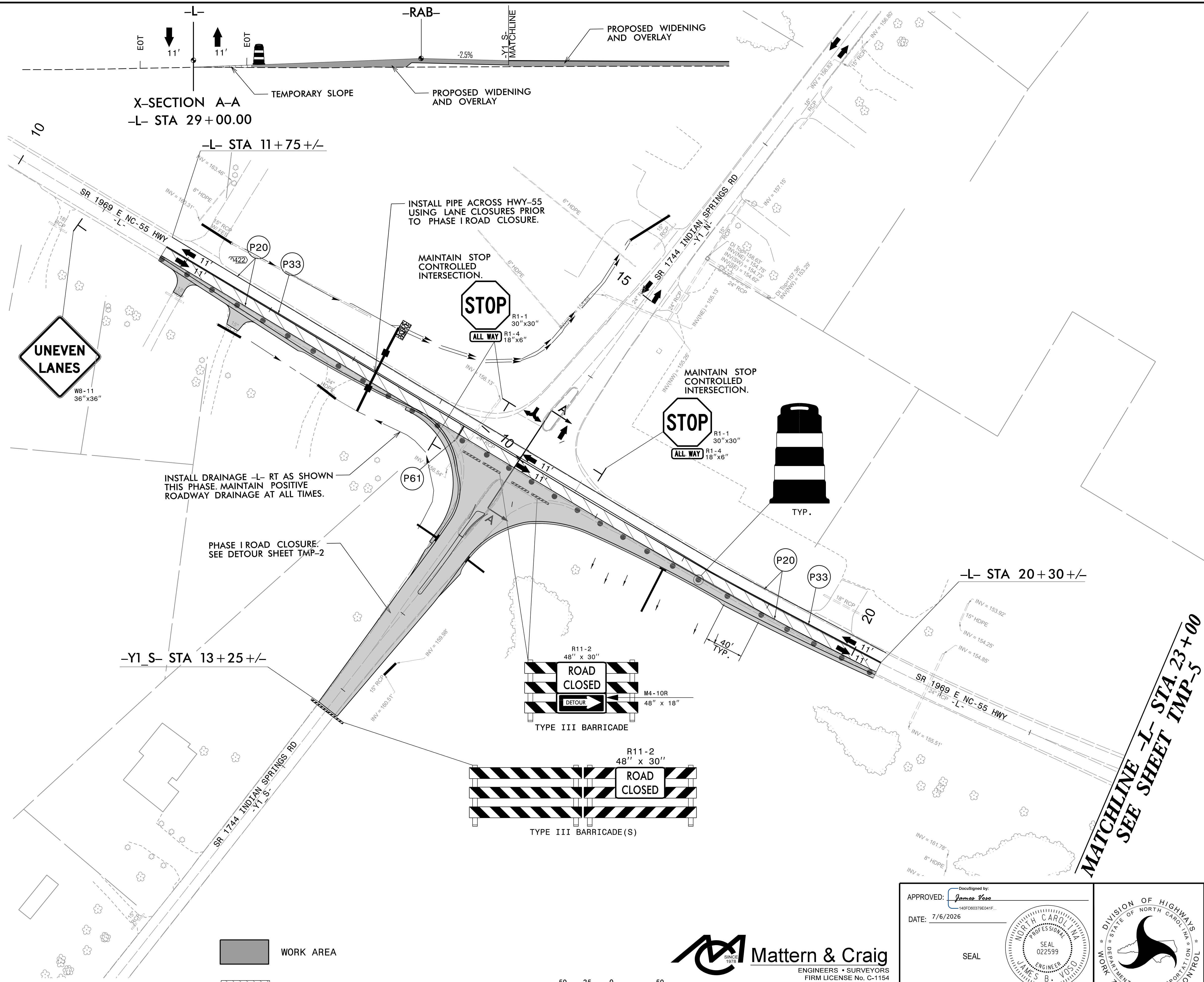
ENGINEERS • SURVEYORS
FIRM LICENSE No. C-1154
12 BROAD STREET
ASHEVILLE, NORTH CAROLINA 28801
(828) 254-2201
FAX (828) 254-4562

APPROVED: DocuSigned by: James Voss 140FD80378E041F...	
DATE: 7/17/2026	
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



PHASING NOTES

NAD 83/2011



12:09:08 PM
6/4/2026 - HN-0033 Roundabout V03 Design Traffic Control\TCP\HN-0033_TC_PHASE1_TMP4.dgn
bgrass

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FAX (828) 254-4562

APPROVED: *James Vose*
DATE: 7/6/2026

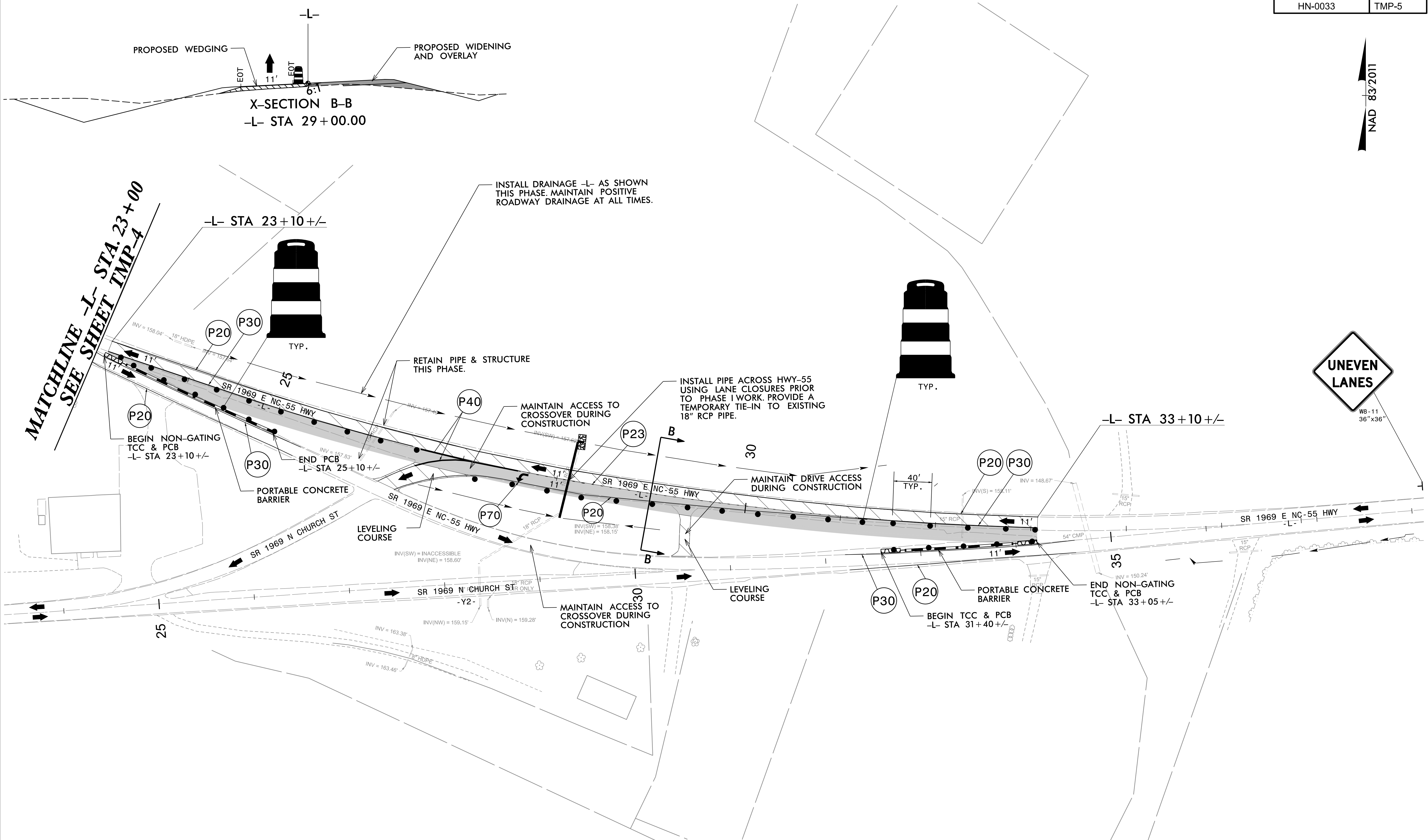
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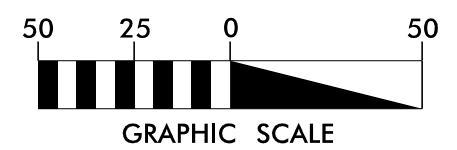
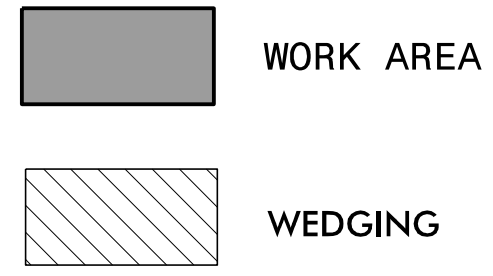
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

TEMPORARY TRAFFIC
CONTROL DETAIL
PHASE I

NAD 83/2011



MATCHLINE -L- STA. 23+00
SEE SHEET TMP-4



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DATE: 7/6/2026

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TEMPORARY TRAFFIC
CONTROL DETAIL
PHASE I

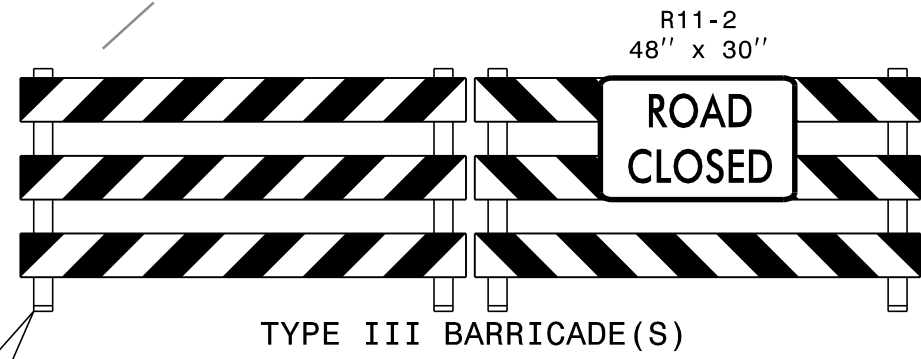
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bgrass

NAD 83/2011

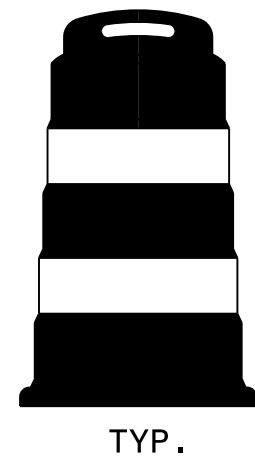
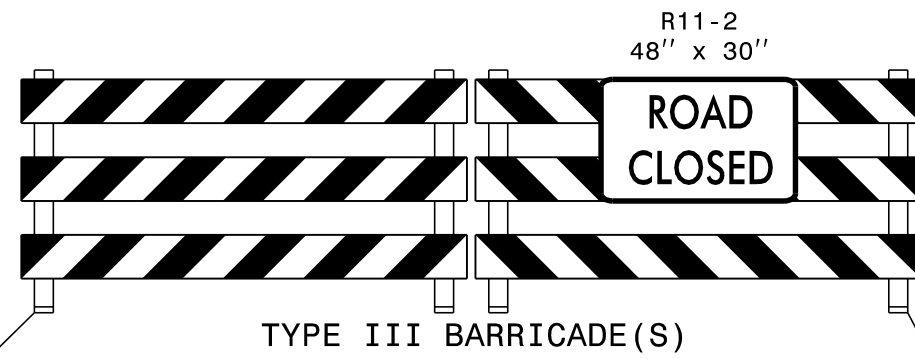
INSTALLED PREVIOUS
PHASE II

X-SECTION B-B
-L- STA 29+00.00

MATCHLINE -L- STA. 23+00
SEE SHEET TMP-8



PHASE III LIMITED DURATION
ROAD CLOSURE.
SEE DETOUR SHEET TMP-2B



M4-8
24" x 12"

M1-5a
24" x 24"

M6-3
21" x 15"



W8-11
36" x 36"

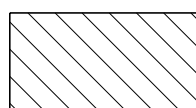
-L- STA 24+25+/-

-L- STA 33+00+/-

-L- STA 37+00+/-

-Y2- STA 25+10+/-

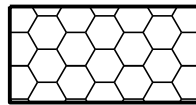
-Y2- STA 30+30+/-



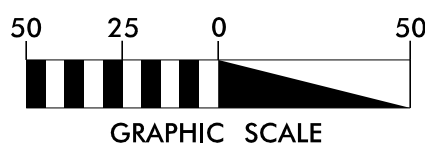
WEDGING



WORK AREA



TEMPORARY PAVEMENT



GRAPHIC SCALE



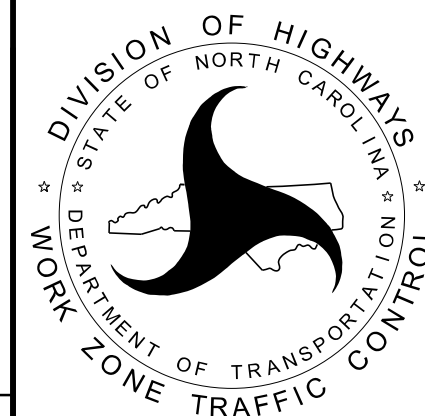
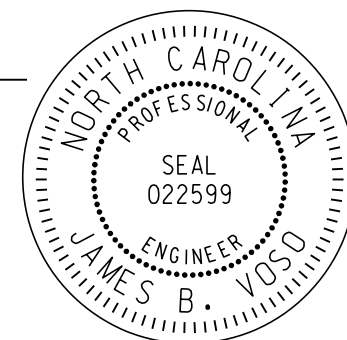
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12 BROAD STREET
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(828) 254-2201
FAX (828) 254-4562

APPROVED: James Voso
140FD60378E041F...

DATE: 7/6/2026

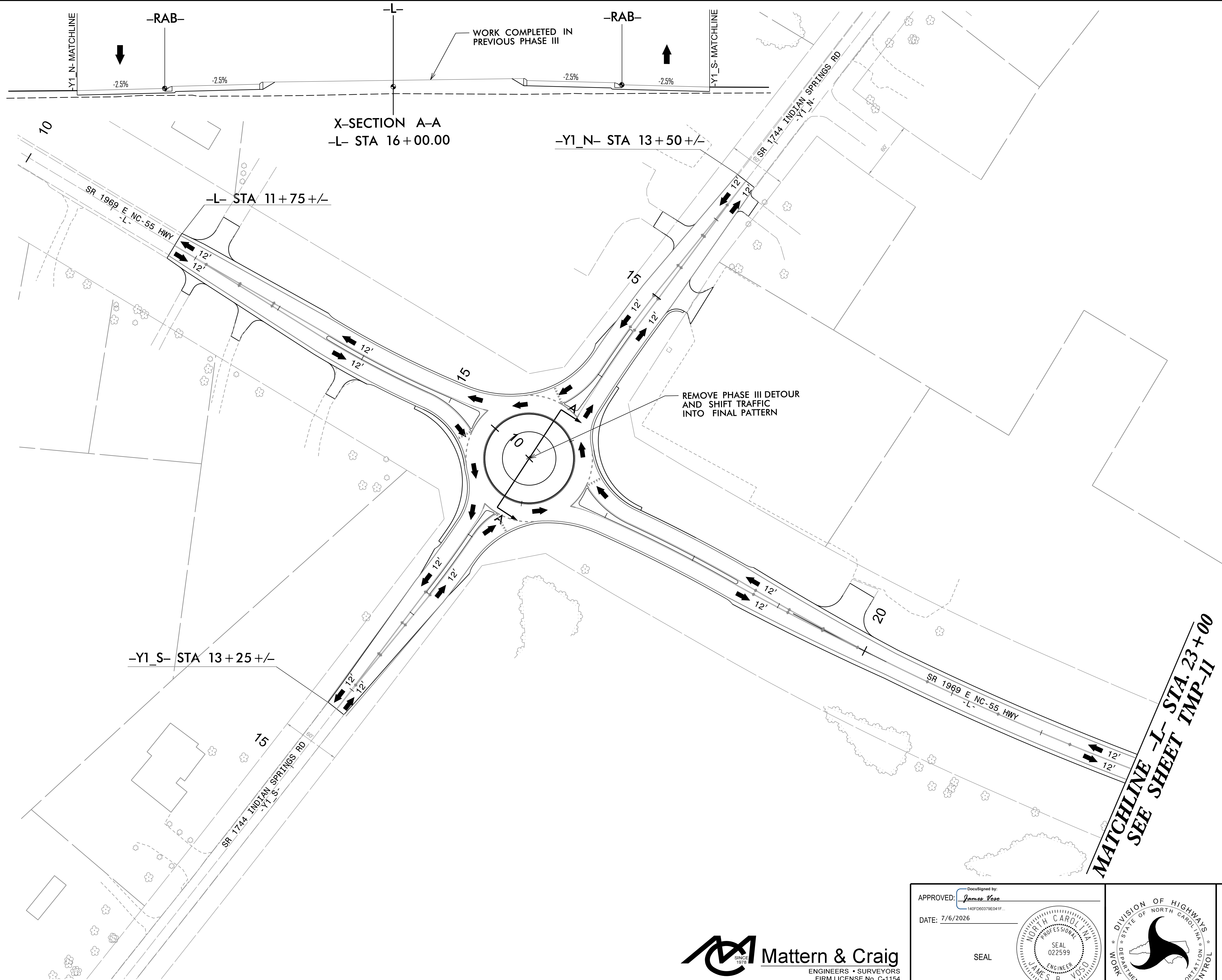
SEAL



TEMPORARY TRAFFIC
CONTROL DETAIL
PHASE III

PROJ. REFERENCE NO.	SHEET NO.
HN-0033	TMP-10

NAD 83/2011



MATCHLINE -L- STA. 23+00
SEE SHEET TMP-11

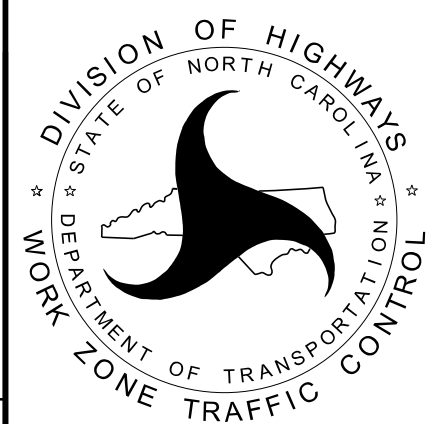
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bgr

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12 BROAD STREET
ASHEVILLE, NORTH CAROLINA 28801
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APPROVED: James Vaso
140F00379E041F...
DATE: 7/6/2026

SEAL

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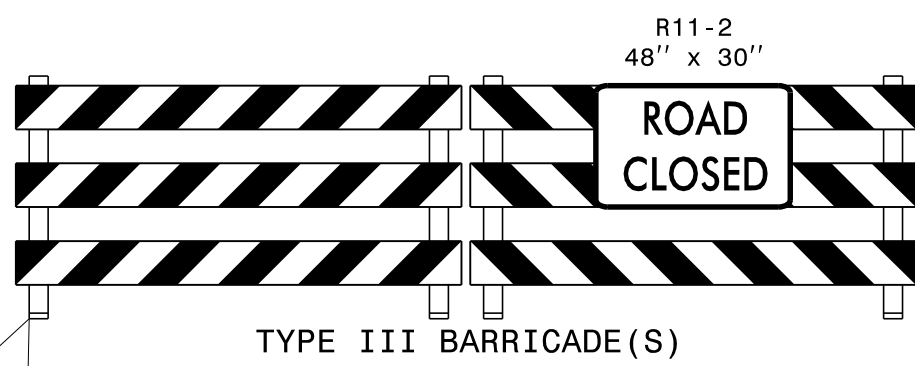
TEMPORARY TRAFFIC
CONTROL DETAIL
PHASE IV

NAD 83/2011

INSTALLED PREVIOUS
PHASE III

X-SECTION B-B
-L- STA 29+00.00

MATCHLINE -L- STA. 23+00
SEE SHEET TMP-10



REMOVE PHASE III DETOUR
AND SHIFT TRAFFIC
INTO FINAL PATTERN

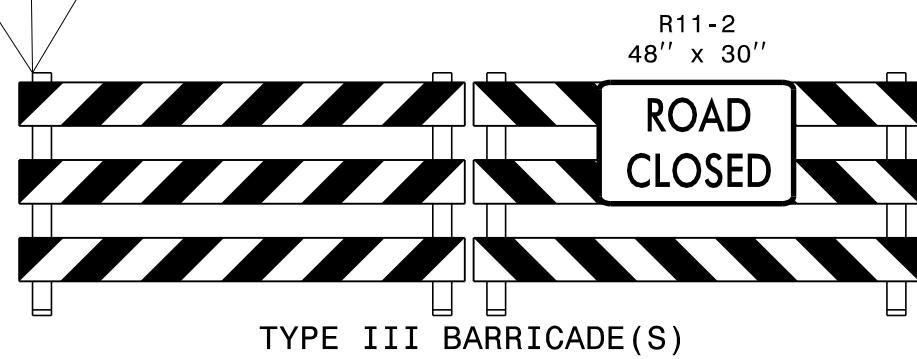
-Y2- STA 24+00 +/-

-L- STA 37+00 +/-

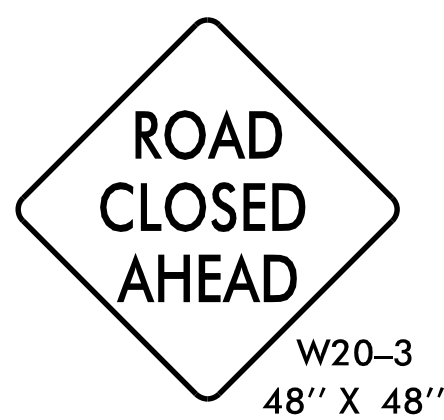
SR 1969 N CHURCH ST
-Y2-
SR 1969 N CHURCH ST

SR 1969 E NC-55 HWY
-Y2-
SR 1969 N CHURCH ST

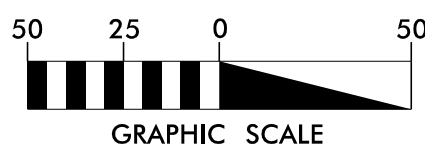
-Y2- STA 26+16 +/-



ROAD CLOSED AHEAD SIGN
PLACED AT THE INTERSECTION
OF INDIAN SPRING ROAD
AND N CHURCH ST.

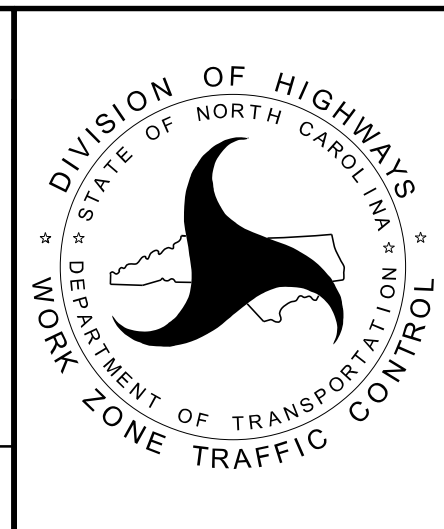


- PAVEMENT REMOVAL
- WORK AREA
- WEDGING



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(828) 254-2201
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APPROVED: James Vaso
DATE: 7/6/2026
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TEMPORARY TRAFFIC
CONTROL DETAIL
PHASE IV