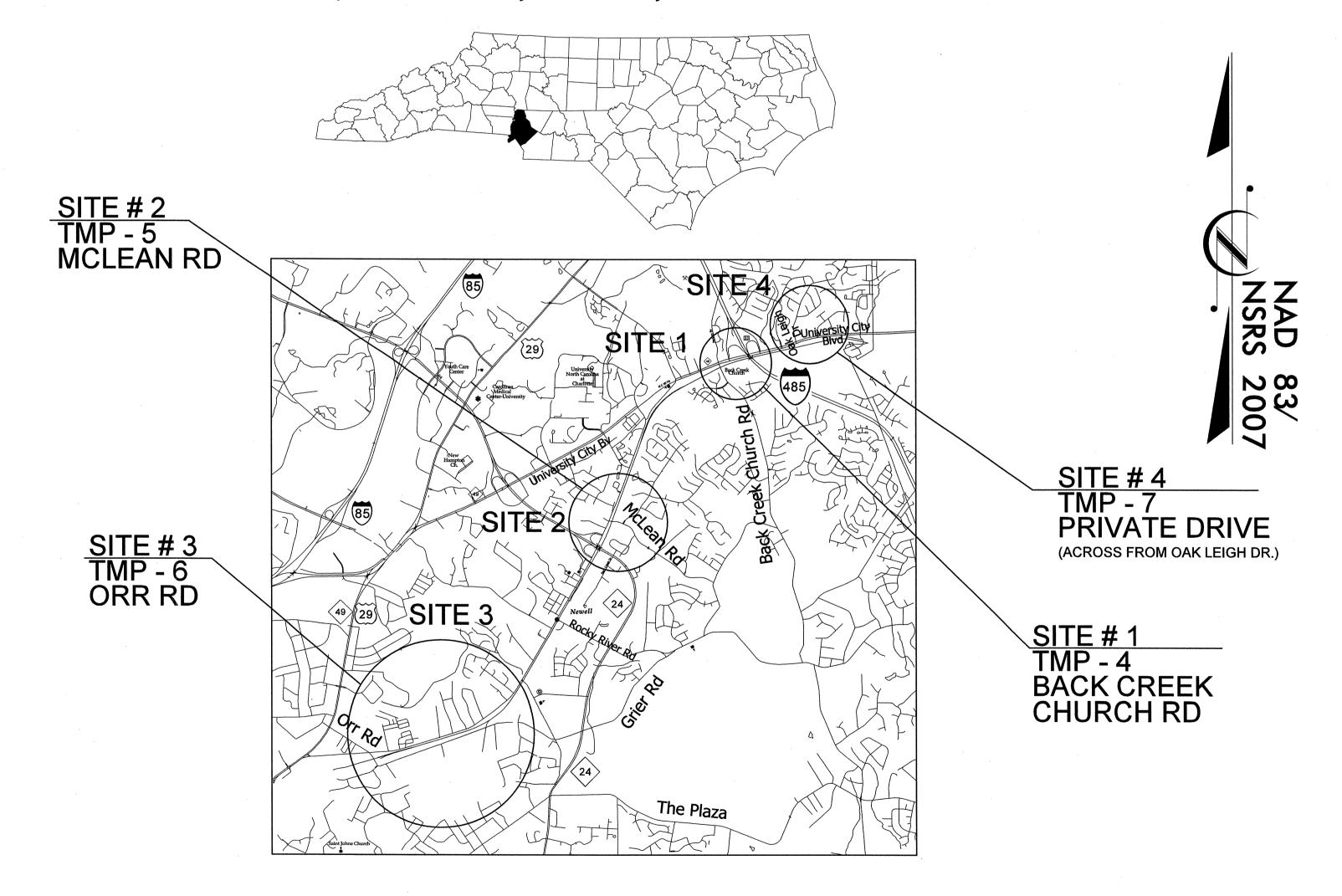
TRANSPORTATION MANAGEMENT PLAN

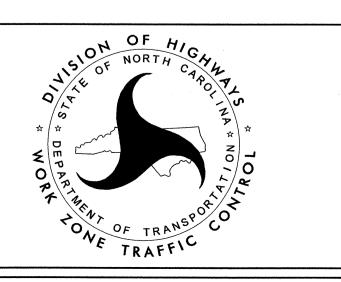
MECKLENBURG COUNTY

LOCATION: NCRR/NS MAINLINE RAILROAD FROM MILLBROOK ROAD (SR 1182), MP 365.5 TO NORTH OF NEWELL-HICKORY GROVE ROAD (SR 2853), MP 370.7

TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURES AND RETAINING WALLS



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, PE STATE TRAFFIC MANAGEMENT ENGINEER G. L. GETTIER, PE TRAFFIC CONTROL PROJECT ENGINEER J. W. GILSTRAP TRAFFIC CONTROL PROJECT DESIGN ENGINEER WORK ZONE SAFETY & MOBILITY TRAFFIC CONTROL DESIGN ENGINEER "from the MOUNTAINS to the COAST"



P-5208G 50000.1.STR11T1B PE, UTIL PE 50000.1.STR12T3 PE, UTIL PE 43219.2.STR09P5208 **RIGHT OF WAY** 50000.3.STR01T4A | FRA-FR-HSR-0006-10-01-00 | CONST, UTIL CONST

(PART 3 OF 3)

INDEX OF SHEETS

SHEET NO.

TITLE

TMP-1

TITLE SHEET, AND INDEX OF SHEETS

GENERAL NOTES

TMP-3

BACKCREEK RD DETOUR

ROAD CLOSURE DETAILS

MCLEAN RD DETOUR

TMP-6

ORR RD DETOUR

TMP-7

PRIVATE DRIVE CLOSURE

TMP-8

SIGN DESIGN

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR 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.

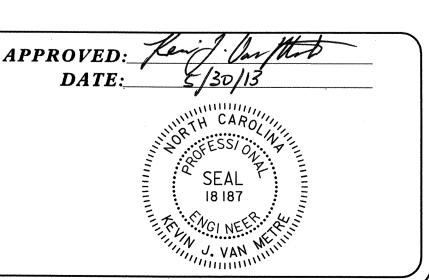
TITLE

TEMPORARY ROAD CLOSURES 1101.03 STATIONARY WORK ZONE SIGNS 1110.01 PORTABLE WORK ZONE SIGNS 1110.02

DRUMS 1130.01 BARRICADES 1145.01

1205.11 PAVEMENT MARKINGS - RAILROAD CROSSINGS





5208G

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 ROADS AS FOLLOWS:

ROAD NAME

BACK CREEK CHURCH ROAD McLEAN ROAD ORR ROAD

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 8:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
- 3. FOR EASTER, BETWEEN THE HOURS OF 8:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 8:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- 5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 8:00 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 8:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- 6. FOR LABOR DAY, BETWEEN THE HOURS OF 8:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
- 7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 8:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
- 8. FOR CHRISTMAS, BETWEEN THE HOURS OF 8:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- 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.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN 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.
- 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.

- 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.
- DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY OR RAMP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING AS NECESSARY AND/OR AS DIRECTED BY THE ENGINEER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

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.

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) 200 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

J) NOTIFY THE ENGINEER TWENTY ONE (21) 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.
- 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.

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.

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

TRAFFIC CONTROL DEVICES

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

IF NEEDED, INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME

PAINT

MARKER

NONE

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.

- T) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING
- REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

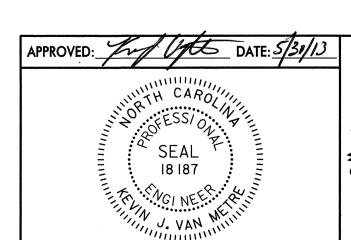
ALL ROADS

MCLEAN ROAD AND BACK CREEK CHURCH RD CANNOT BE CLOSED AT THE SAME TIME.

CALDWELL ROAD AND BACK CREEK CHURCH ROAD CANNOT BE CLOSED AT THE SAME TIME. COORDINATE CLOSURE WITH P-5208F PROJECT.

ORR ROAD AND OLD CONCORD ROAD CANNOT BE CLOSED AT THE SAME TIME. COORDINATE CLOSURE WITH P-5208H PROJECT.

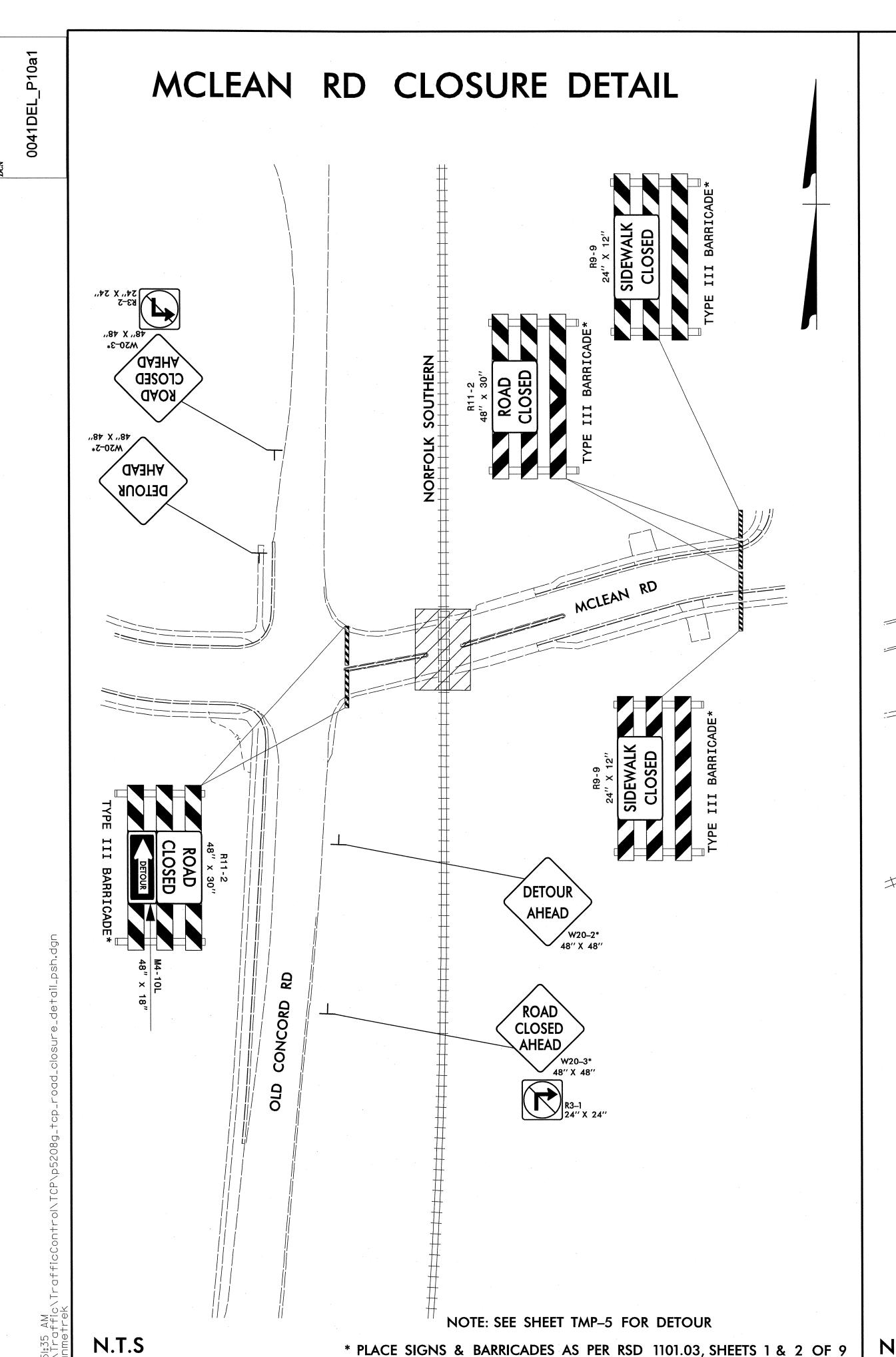
NC Firm License No.: F-0342 701 Corporate Center Drive Suite 475 Raleigh, NC 27607 Phone: 919-854-6200



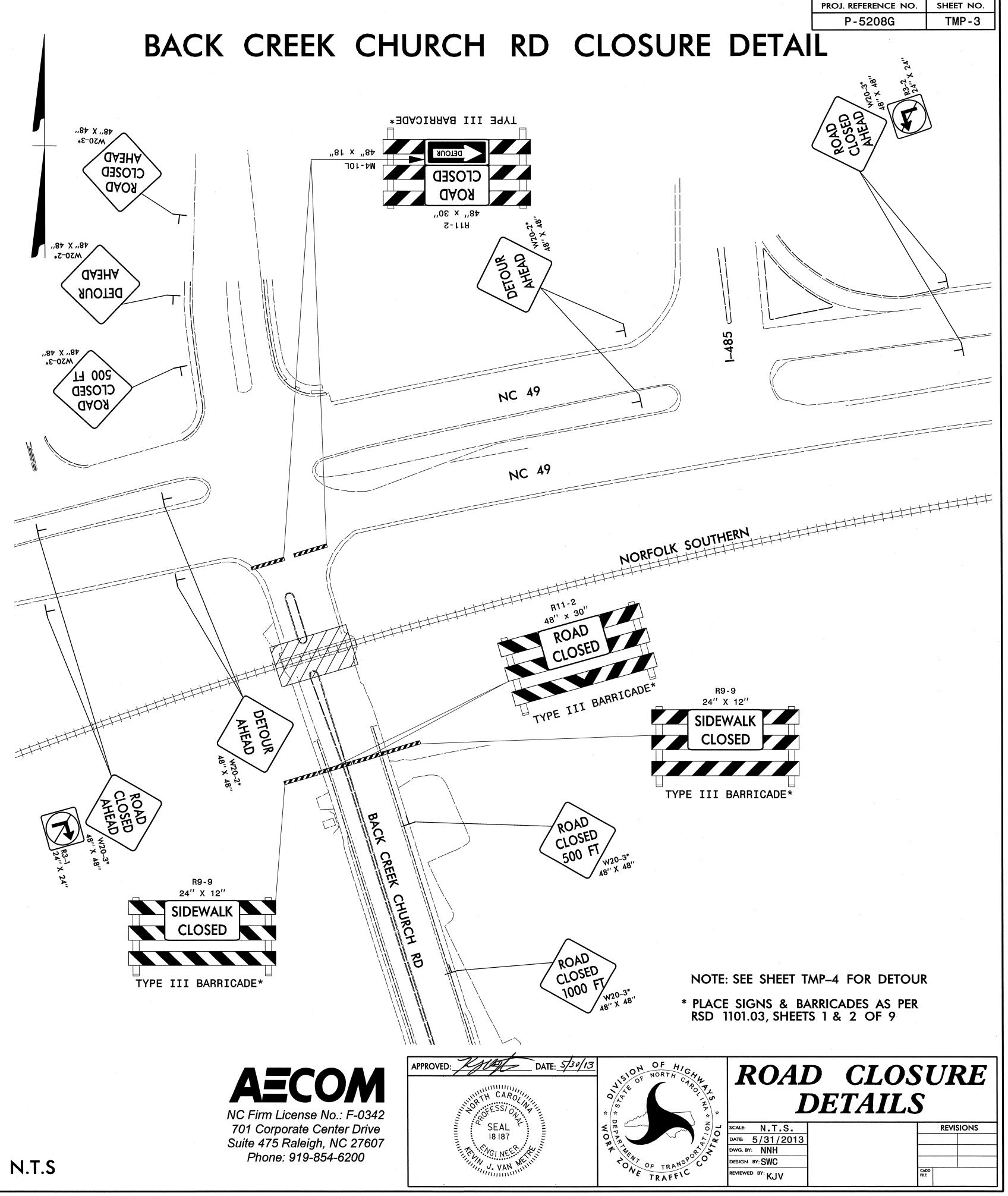


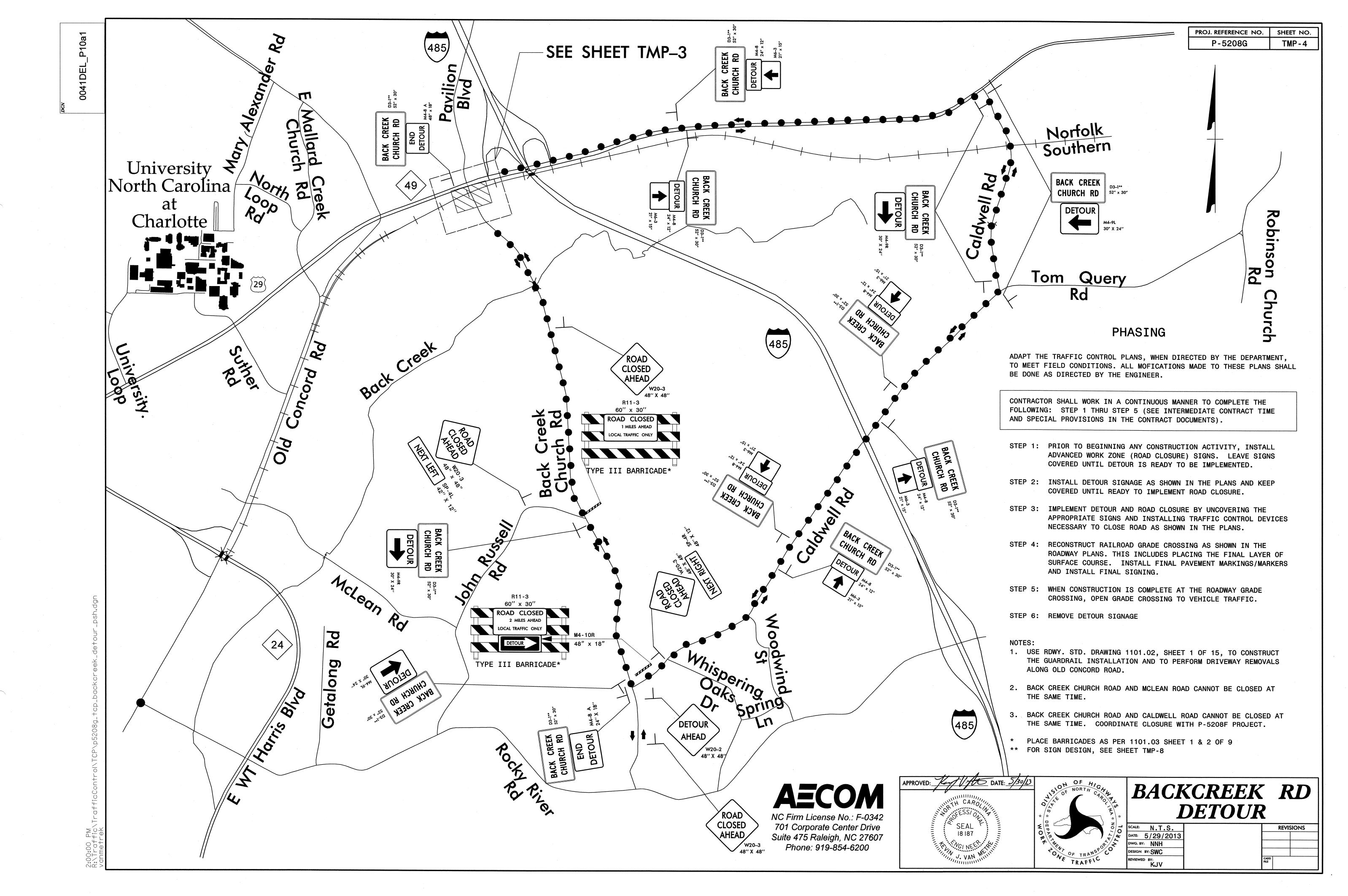
GENERAL NOTES

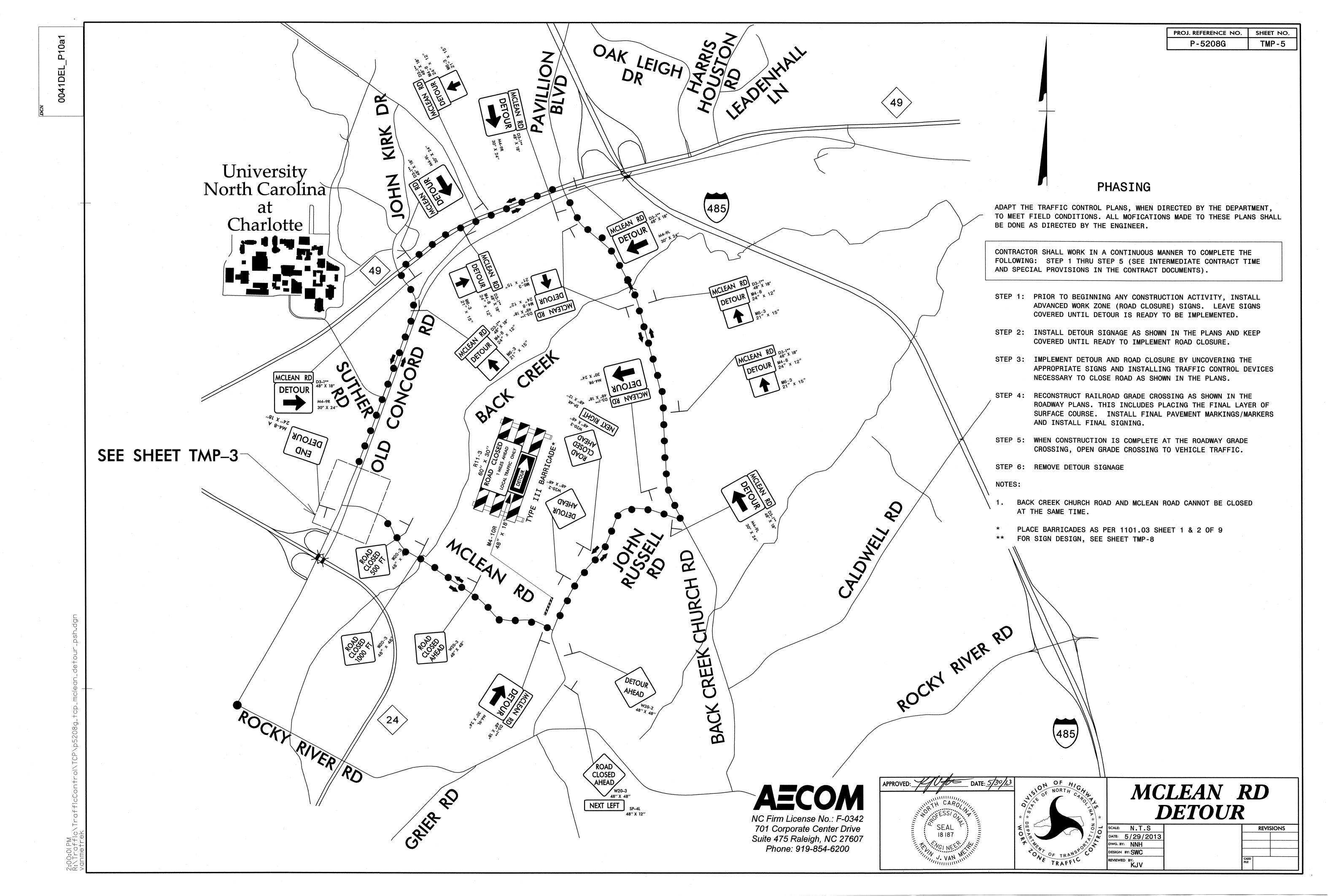
SCALE: N.T.S. REVISIONS DATE: 5/29/2013 DWG. BY: NNH SIGN BY: SWC WED BY:



* PLACE SIGNS & BARRICADES AS PER RSD 1101.03, SHEETS 1 & 2 OF 9







ADAPT THE TRAFFIC CONTROL PLANS, WHEN DIRECTED BY THE DEPARTMENT. TO MEET FIELD CONDITIONS. ALL MOFICATIONS MADE TO THESE PLANS SHALL BE DONE AS DIRECTED BY THE ENGINEER.

CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE FOLLOWING: STEP 1 THRU STEP 5 (SEE INTERMEDIATE CONTRACT TIME AND SPECIAL PROVISIONS IN THE CONTRACT DOCUMENTS).

- STEP 1: PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, INSTALL ADVANCED WORK ZONE (ROAD CLOSURE) SIGNS. LEAVE SIGNS COVERED UNTIL DETOUR IS READY TO BE IMPLEMENTED.
- STEP 2: INSTALL DETOUR SIGNAGE AS SHOWN IN THE PLANS AND KEEP COVERED UNTIL READY TO IMPLEMENT ROAD CLOSURE.
- STEP 3: IMPLEMENT DETOUR AND ROAD CLOSURE BY UNCOVERING THE APPROPRIATE SIGNS AND INSTALLING TRAFFIC CONTROL DEVICES NECESSARY TO CLOSE ROAD AS SHOWN IN THE PLANS.
- STEP 4: RECONSTRUCT RAILROAD GRADE CROSSING AS SHOWN IN THE ROADWAY PLANS. THIS INCLUDES PLACING THE FINAL LAYER OF SURFACE COURSE. INSTALL FINAL PAVEMENT MARKINGS/MARKERS AND INSTALL FINAL SIGNING.
- STEP 5: WHEN CONSTRUCTION IS COMPLETE AT THE ROADWAY GRADE CROSSING, OPEN GRADE CROSSING TO VEHICLE TRAFFIC.
- STEP 6: REMOVE DETOUR SIGNAGE

NOTES: ORR ROAD AND OLD CONCORD ROAD CANNOT BE CLOSED AT THE SAME TIME.

COORDINATE WITH P-5208H.

PLACE BARRICADES AS PER 1101.03 SHEET 1& 2 OF 9 FOR SIGN DESIGN, SEE SHEET TMP-8

Arrowhead Dr

Austin Dr

General Dr

Old Concord Rd

Heathway Dr

Somersworth

Branchhill

Donna

St Johns Church Rd//

AHEAD

W20-2

48" X 48"

The Plaza ROAD CLOSED AHEAD NEXT LEFT | SP-4L | 42" X 12"

SEAL 18 187

DETOUR

District Dr

ORR RD D3-1**
42" X 18"

DETOUR M4-8 24" X 12" M6-3 21" X 15"

ORR RD **DETOUR**

SCALE: N.T.S.

DATE: 5/29/2013

DWG. BY: NNH SIGN BY: SWC

WED BY:

SHEET NO.

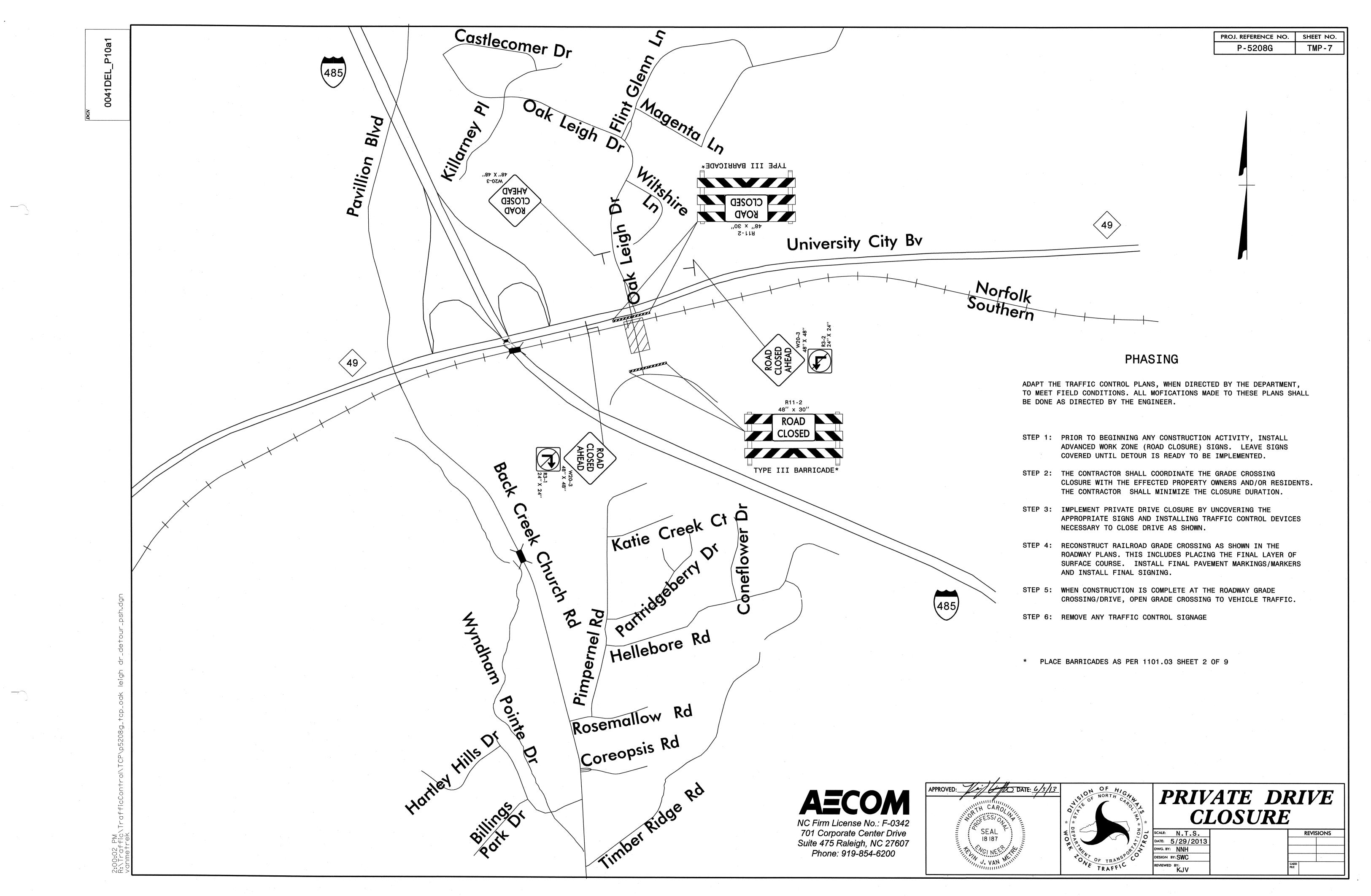
TMP-6

PROJ. REFERENCE NO.

P-5208G

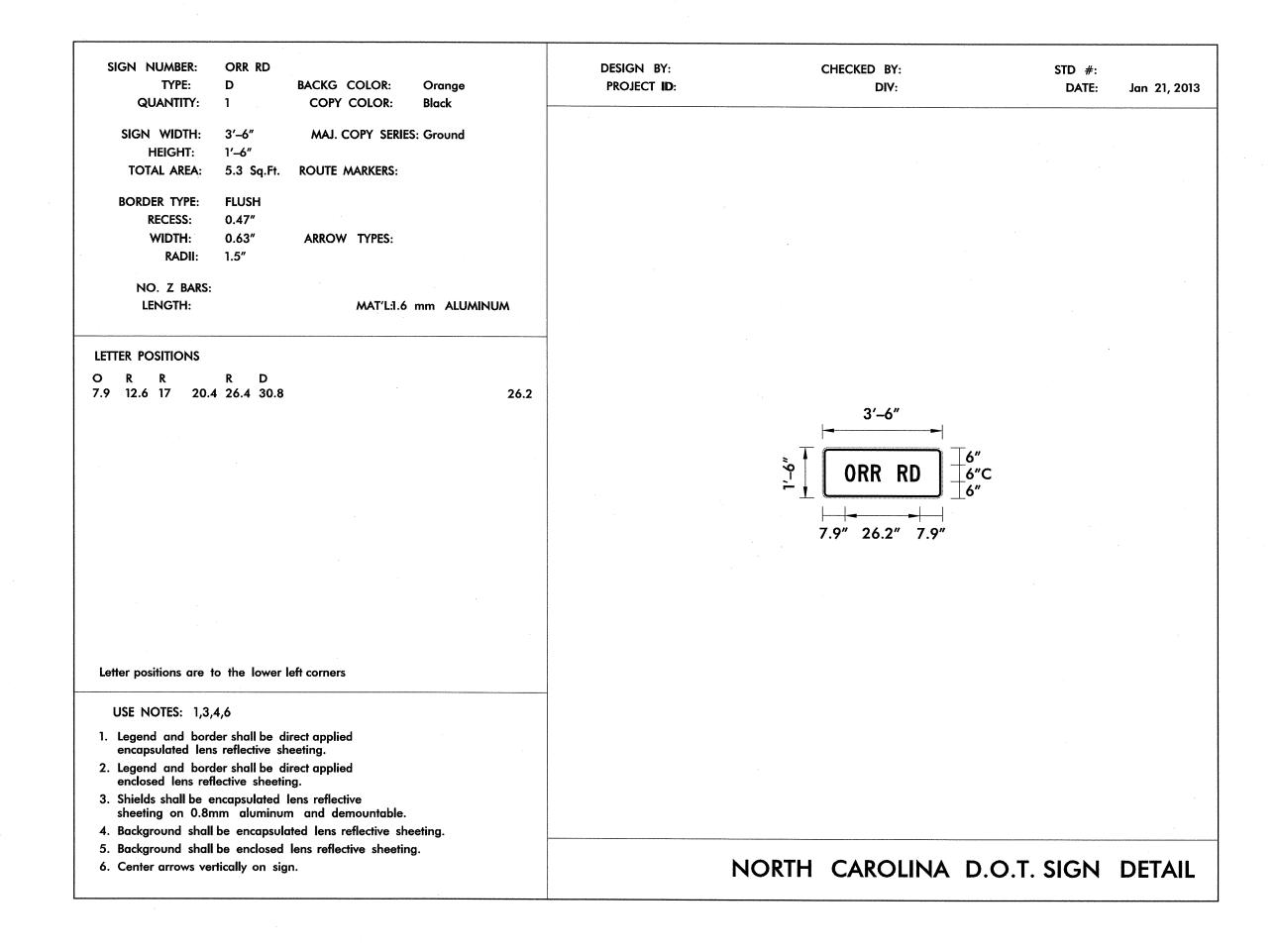
NC Firm License No.: F-0342

701 Corporate Center Drive Suite 475 Raleigh, NC 27607 Phone: 919-854-6200

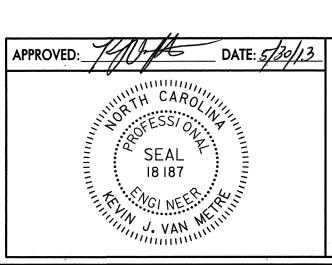


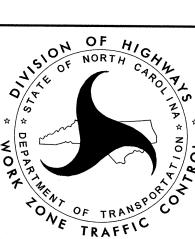
SIGN NUMBER: BACK CREEK CHURCH RD TYPE: D BACKG COLOR: Orange QUANTITY: 1 COPY COLOR: Black	DESIGN BY: PROJECT ID :	CHECKED BY: DIV:	STD #: DATE: Jan 21, 2013
SIGN WIDTH: 4'-6" MAJ. COPY SERIES: Ground HEIGHT: 2'-6" TOTAL AREA: 11.3 Sq.Ft. ROUTE MARKERS:			
BORDER TYPE: FLUSH RECESS: 0.47" WIDTH: 0.63" ARROW TYPES: RADII: 1.5"			
NO. Z BARS: LENGTH: MAT'L:1.6 mm ALUMINUM			
LETTER POSITIONS			
B A C K C R E E K 5.6 9.5 14 18.6 22 28 32.5 36.9 41 45.1 42.8 C H U R C H R D		4′-6″	
7.1 11.6 16.3 21 25.3 29.8 33.2 39.2 43.6 39.8		BACK CREEK 6"C 4.5" 6"C 6"C	
		<u>√</u>	
Letter positions are to the lower left corners			
USE NOTES: 1,3,4,6 1. Legend and border shall be direct applied encapsulated lens reflective sheeting. 2. Legend and border shall be direct applied enclosed lens reflective sheeting. 3. Shields shall be encapsulated lens reflective			
sheeting on 0.8mm aluminum and demountable. 4. Background shall be encapsulated lens reflective sheeting. 5. Background shall be enclosed lens reflective sheeting. 6. Center arrows vertically on sign.		NORTH CAROLINA D.O.T.	SIGN DETAIL

SIGN NUMBER: TYPE: QUANTITY:	MCLEAN RD D BACKG CO 1 COPY CO	_	DESIGN BY: PROJECT ID :	CHECKED BY: DIV:	STD #: DATE:	Jan 21, 201
SIGN WIDTH:	4'-0" MAJ. COP	Y SERIES: Ground				
HEIGHT:	1′–6″					
TOTAL AREA:	6.0 Sq.Ft. ROUTE MAR	RKERS:				
BORDER TYPE:	FLUSH					
RECESS:	0.47"					
WIDTH:	0.63" ARROW T	YPES:				
RADII:	1.5"	,				
NO. Z BARS:						
LENGTH:	M	AT'L:1.6 mm ALUMINUM				
LETTER POSITIONS		V				
M C L E	AN R D					
4.5 9.7 14.2 18.	1 21.7 26.4 29.8 35.8 4	10.1 39	•			
				4′-0″		
				T ()		
			·	MCLEAN RD 5.9" 6"C		
				6.1"		
						
				4.5" 39" 4.5"		
Letter positions are	to the lower left corners					
USE NOTES: 1,3	4.6	~1000000000000000000000000000000000000				
	der shall be direct applied s reflective sheeting.					
enclosed lens ref	der shall be direct applied lective sheeting.					
	encapsulated lens reflective nm aluminum and democ	untable.				
	be encapsulated lens refle					
	be enclosed lens reflective	sheeting.				
6. Center arrows ve	rtically on sign.			NORTH CAROLINA D.O	.T. SIGN	DETAI









SIGN DESIGN

ALE: N.T.S.	REVISIONS			•
TE: 5/29/2013				•
VG. BY: NNH				
SIGN BY: SWC				
VIEWED BY: KJV	CADD FILE			•