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SHEET NO.	TITLE
TMP-3 - TMP-3G	TEMPORARY TRAFFIC CONTROL PHASING - PHASE I
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TMP-30 - TMP-3R	TEMPORARY TRAFFIC CONTROL PHASING - PHASE III
TMP-3S - TMP-3V	TEMPORARY TRAFFIC CONTROL PHASING - PHASE IV
TMP-3W	TEMPORARY TRAFFIC CONTROL PHASING - PHASE V
SECTION 1: -L- STA 495+	+00 TO STA 650+00
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TMP-36 - TMP-63	TEMPORARY TRAFFIC CONTROL - PHASE II DETAILS
TMP-64 - TMP-80	TEMPORARY TRAFFIC CONTROL - PHASE III DETAILS
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TMP-285 - TMP-297	TEMPORARY TRAFFIC CONTROL - PHASE V DETAILS

DRAWINGS, AND LEGEND ANAGEMENT

-95 SB CLOSURE -Y5--95 SB CLOSURE -Y5-Y4- CLOSURE SR4- CLOSURE SR5- CLOSURE (4 - / - SR4 - / **-** SR5 -D I-95 CLOSURE NIGHTLY CLOSURE EXIT 33 RAMP A & B

EXIT 33 RAMP B & D EXIT 33 1/2 INTERCHANGE CLOSURE, RAMP A & B CLOSED EXIT 33 1/2 INTERCHANGE CLOSURE, RAMP C & D CLOSED (-SR3-) CLOSURE (MCRAINEY ROAD) (PARKTON TOBERMORY ROAD)

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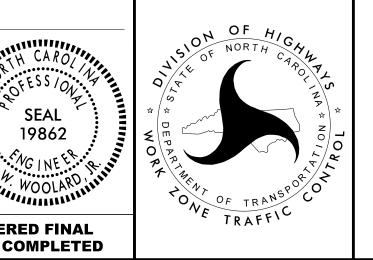
HRU B1-06 HRU B1-12 HRU B1-18 HRU B1-24 HRU B1-30 HRU B1-34

THRU B2-06 THRU B2-12 THRU B2-18 THRU B2-24 THRU B2-30 THRU B2-36 THRU B2-42 EXCAVATION

THRUEU-06THRUEU-12THRUEU-18THRUEU-24THRUEU-30THRUEU-33

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APPROVED: Lovi D. Stouchko 6C933CB5742F461 4/29/2022 DATE: 4/29/2022	APPROVED: J.W. Woolards Jr. BBC02F49E95C4EC DATE: 4/29/2022

PROJ. REFERE	NCE NO.	SHEET NO.
I - 598	7B	TMP-1A
PLANS PREPAR	RED FOR T	THE NCDOT BY:
M M		ONALD 1 & E, LLC STREET, SUITE 101 27604
MOTT MACDONALD	NC LICEN	NSE NO. F-0669
Stantec Cons 801 Jones Fra Suite 300	ankliñ Roa	vices Inc.
Raleigh, NC 2 Tel. 919.851.0 Fax. 919.851. www.stantec. License No. F	6866 .7024 com	

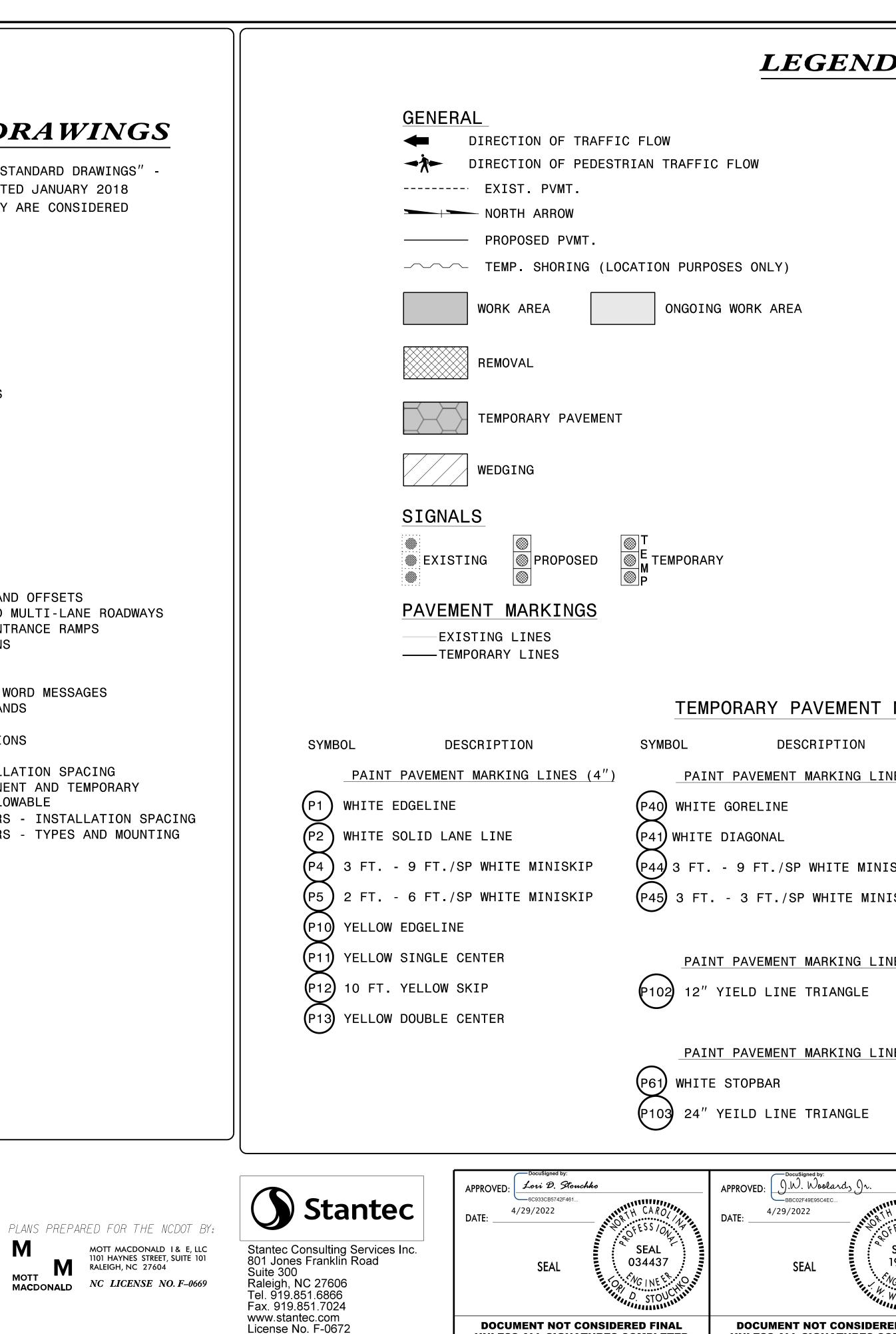


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ROADWAY STANDARD DRAWINGS

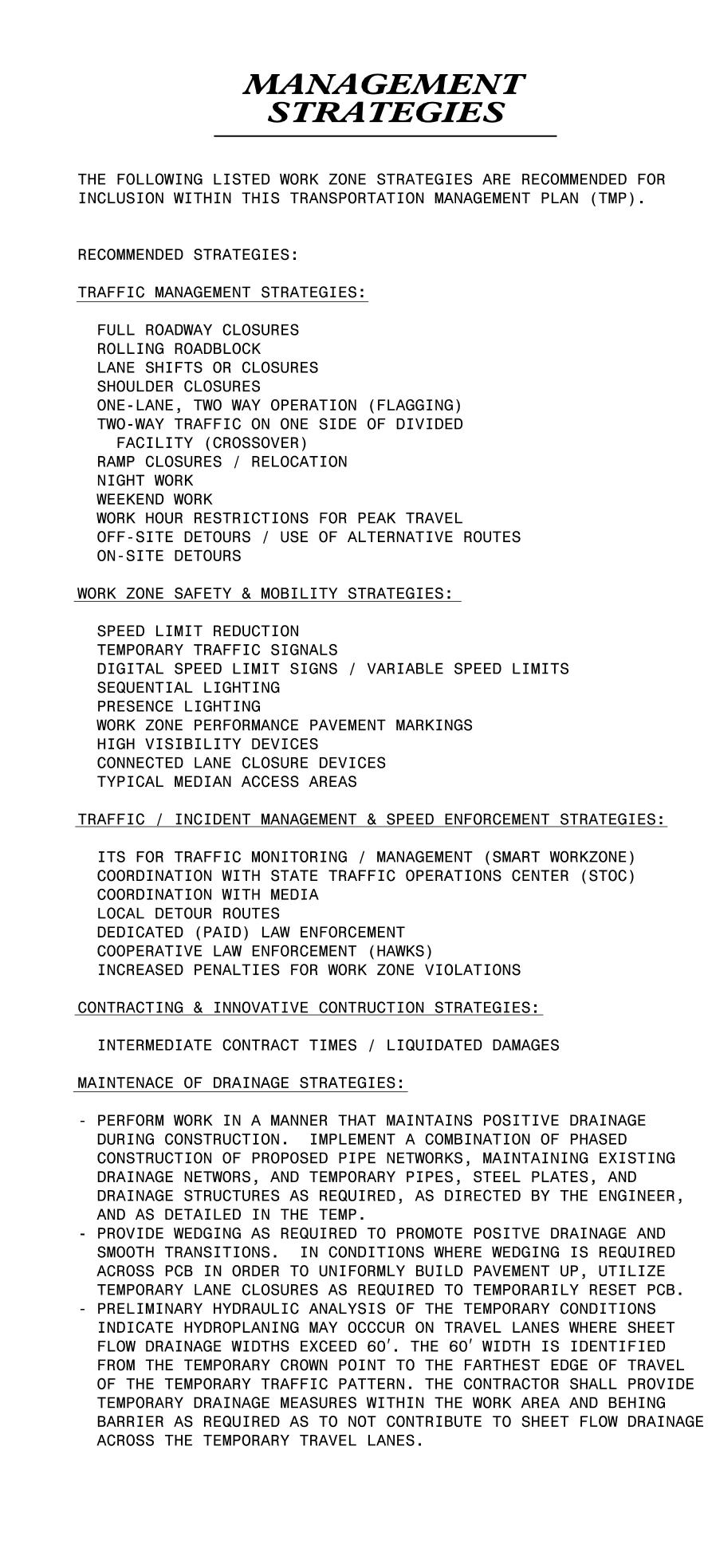
THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" -N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE 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	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGERS
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE
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
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGE
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACE
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMP
1251.03	RAISED PAVEMENT MARKERS - SNOWPLOWABLE
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLA
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AN
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION



UNLESS ALL SIGNATURES COMPLETED

LEGEND				PROJ. REFERENCE NO. I - 5987B	sheet no TMP - 1B
	TRAFF	IC CONTROL D	FVICES		
		BARRICADE (TYPE			
FLOW		CONE	Y DRUM ⊚ CUSHION	TUBULAR MARKER	
ES ONLY)		FLAGGER			
WORK AREA		LAW ENFORCEMENT TRUCK MOUNTED AT CHANGEABLE MESSA		IA)	
	TEMPO	RARY SIGNING	_		
		TABLE SIGN TIONARY SIGN TIONARY OR PORTABL	E SIGN		
		IENT MARKERS			
		/STAL/RED LOW/YELLOW			
	<u>PAVEM</u> ↑ ← ↓	IENT MARKING			
DRARY PAVEMENT M	ARKING				
DESCRIPTION		SYMBOL	DESCR	IPTION	
PAVEMENT MARKING LINES	6 (8")		APPLIED PLAS	STIC (6")	
GORELINE		C20 WHITE	EDGELINE		
IAGONAL		C22 10 FT.	WHITE SKIP		
9 FT./SP WHITE MINISK	IP	C30 YELLOW	EDGELINE		
3 FT./SP WHITE MINISK	ΊP				
		PERFC	RMANCE PAVE	IENT MARKING LINE	ES (6")
PAVEMENT MARKING LINES	6 (12")	Z21 WHITE	SOLID LINE		
IELD LINE TRIANGLE		Z22 10 FT.	WHITE SKIP		
		(Z23) 3 FT.	- 9 FT./SP \	WHITE MINISKIP	
PAVEMENT MARKING LINES	6 (24″)	Z31 YELLOW	SOLID LINE		
STOPBAR		PERFC	RMANCE PAVE	IENT MARKING LINE	ES (12")
EILD LINE TRIANGLE		Z50 WHITE	GORELINE		
SEAL	AL 62 VE.F.P. J.	NORTH CARD		WAY STANDAR INGS & LEGEN	
DOCUMENT NOT CONSIDERED					



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.

CONSTRUCTION OPERATIONS REQUIRING A LANE CLOSURE ON A RAMP/LOOP SECTION WITH A SINGLE LANE SHALL BE DEFINED AS A ROAD CLOSURE AND SHALL BE SUBJECT TO THE INTERMEDIATE CONTRACT TIMES FOR ROAD CLOSURES FOUND IN GENERAL NOTE C.

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
I-95	6:00 A.M. TO 7:00 P.M. MONDAY THRU THURSDAY 6:00 A.M. TO 9:00 P.M. FRIDAY THRU SUNDAY
NC 20 (EXIT 31)	7:00 A.M. TO 9:00 A.M. MONDAY THRU FRIDAY 4:00 P.M. TO 6:00 P.M. MONDAY THRU FRIDAY
US 301 (EXIT 33)	7:00 A.M. TO 9:00 A.M. MONDAY THRU FRIDAY 4:00 P.M. TO 6:00 P.M. MONDAY THRU FRIDAY

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

ROAD NAME

I-95, NC 20 (EXIT 31), US 301 (EXIT 33)

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 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 6:00 A.M. THURSDAY AND 9:00 P.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 P.M. FRIDAY TO 9:00 P.M. TUESDAY.
- 5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPE THEN BETWE INDEPENDE INDEPENDE

6. FOR LABOR 9:00 P.M.

7. FOR THANKS 9:00 P.M.

8. FOR CHRIST BEFORE THE TUESDAY AF

C) DO NOT CLOSE ROA

ROAD NAME

I-95 (INCLUDING

D) DO NOT CONDUCT EGRESS FROM RAME

ROAD NAME

I-95 (INCLUDING

E) DO NOT CONDUCT OF AN OPEN TRAVE BARRIER OR GUARE

LANE AND SHOULDER

- F) REMOVE LANE CLOS PERFORMED BEHIND LONGER NEEDED OF
- G) WHEN PERSONNEL OPEN TRAVEL LANE STANDARD DRAWING BARRIER OR GUARD
- H) WHEN PERSONNEL ADJACENT TO AN OPEN TRAVEL LANE STANDARD DRAWING BARRIER OR GUARD

WHEN PERSONNEL ADJACENT TO A DI TRAVEL LANE, CLO STANDARD DRAWING BARRIER OR GUARE

PLAN M
MOT MAC

E TRAFFIC

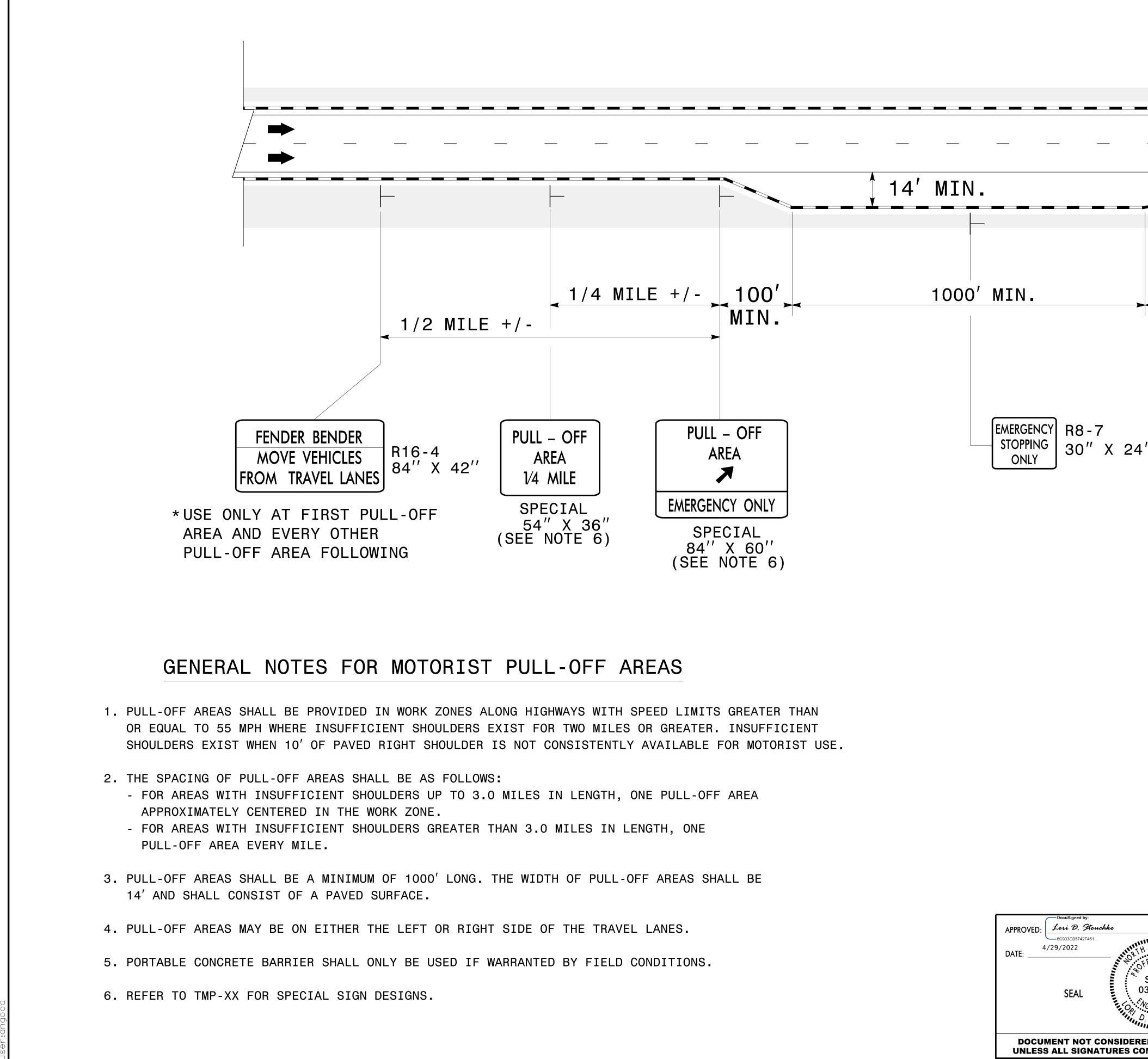
APPROVED: (J.W. Woolands, Jr. APPROVED: Lori D. Stouchko -6C933CB5742F461.. BBC02F49E95C4EC 4/29/2022 4/29/2022 DATE: DATE: FESS/ON SEAL 034437 SEAL SEAL **DOCUMENT NOT CONSIDERED FINAL** DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED UNLESS ALL SIGNATURES COMPLETED

	PROJ. REFERENCE NO. SHEET NO. I - 5987B TMP - 1C
ENDENCE DAY IS ON A FRIDAY, SAT WEEN THE HOURS OF 6:00 A.M. TH ENCE DAY AND 9:00 P.M. THE TU ENCE DAY.	HE THURSDAY BEFORE
R DAY, BETWEEN THE HOURS OF 6 TUESDAY.	:00 A.M. FRIDAY AND
SGIVING DAY, BETWEEN THE HOURS	S OF 6:00 A.M. TUESDAY TO
STMAS, BETWEEN THE HOURS OF 6:0 HE WEEK OF CHRISTMAS DAY AND 9 AFTER THE WEEK OF CHRISTMAS.	
DADS AS FOLLOWS:	
DAY AND TIME RES	TRICTIONS
GALL RAMPS) 6:00 A.M. TO 11:0	00 P.M. MONDAY THRU SUNDAY
F MULTI-VEHICLE HAULING AS FOLI MPS WILL NOT BE ALLOWED:	LOWS; INGRESS AND
DAY AND TIME RES	TRICTIONS
ALL RAMPS) 6:00 A.M. TO 6:00 6:00 A.M. TO 7:00	0 P.M. MONDAY THRU THURSDAY 0 P.M. FRIDAY THRU SUNDAY
ANY HAULING OPERATIONS AGAINS /ELWAY UNLESS THE HAULING OPER/ RDRAIL OR AS DIRECTED BY THE EN	ATION IS PROTECTED BY
CLOSURE REQUIREMENTS	
OSURE DEVICES FROM THE LANE WHIND THE LANE CLOSURE OR WHEN A IN OR AS DIRECTED BY THE ENGINEER	LANE CLOSURE IS NO
AND/OR EQUIPMENT ARE WORKING W NE, CLOSE THE NEAREST OPEN SHOU NG NO. 1101.04 UNLESS THE WORK RDRAIL OR A LANE CLOSURE IS INS	ULDER USING ROADWAY AREA IS PROTECTED BY
AND/OR EQUIPMENT ARE WORKING (UNDIVIDED FACILITY AND WITHIN NE, CLOSE THE NEAREST OPEN TRAV NG NO. 1101.02 UNLESS THE WORK NDRAIL.	5 FT OF AN VEL LANE USING ROADWAY
AND/OR EQUIPMENT ARE WORKING (DIVIDED FACILITY AND WITHIN 10 LOSE THE NEAREST OPEN TRAVEL LANG NO. 1101.02 UNLESS THE WORK	FT OF AN OPEN ANE USING ROADWAY
MOTT MACDONALD I & E, LLC MOTT MACDONALD I & E, LLC 1101 HAYNES STREET, SUITE 101 RALEIGH, NC 27604 NC LICENSE NO. F-0669	Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com License No. F-0672
SEAL 19862 $WOOLARD IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII$	TRANSPORTATION OPERATIONS PLAN

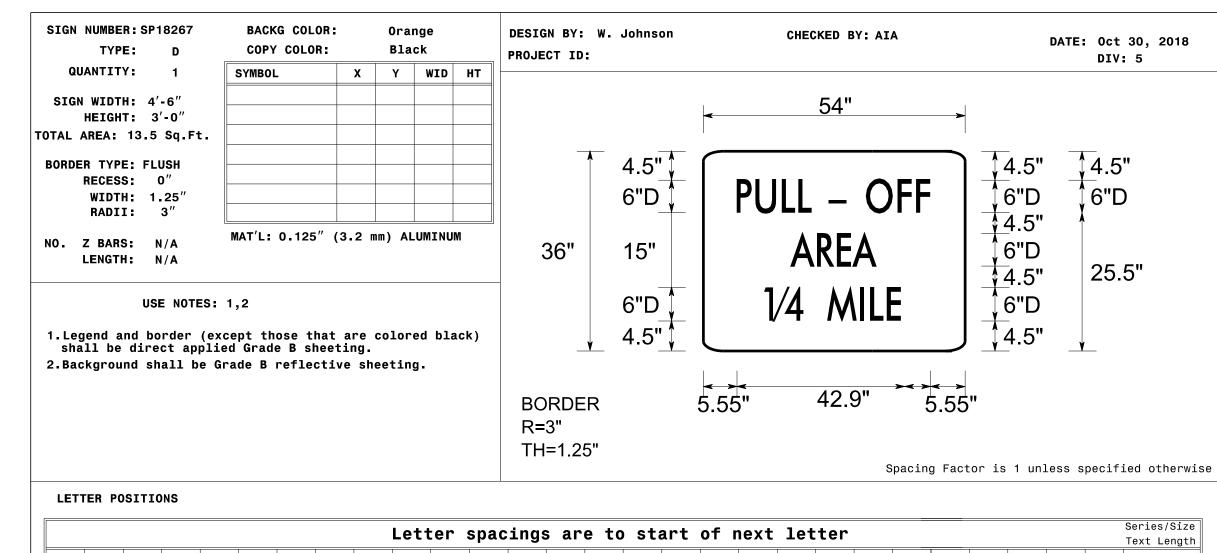
	GENERAL NOTES (continuted)
J)	WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLO TRAVEL LANE.
K)	DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLE PROTECTED WITH GUARDRAIL OR BARRIER.
L)	DO NOT INSTALL MORE THAN TWO MILES OF LANE CLOSURE ON I-95 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
M)	PROVIDE A MINIMUM OF TWO MILES BETWEEN LANE CLOSURES ON I-98 MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF TH CLOSURE.
N)	DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTRON ALL Y-LINES
PA	VEMENT EDGE DROP OFF REQUIREMENTS
0)	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.
P)	DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVA AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA
TR	AFFIC PATTERN ALTERATIONS
Q)	NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.
SI	GNING
R)	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.
S)	ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING A TRAFFIC PATTERN.
T)	INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIG (W8-1) 500 IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY ENGINEER.
U)	PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCONT TO THE ROADWAY STANDARD DRAWINGS AND THE TRAFFIC MANAGEMENT

U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\SERIES IAND 2NI-5987B_TC_TMP-OID_General_Not

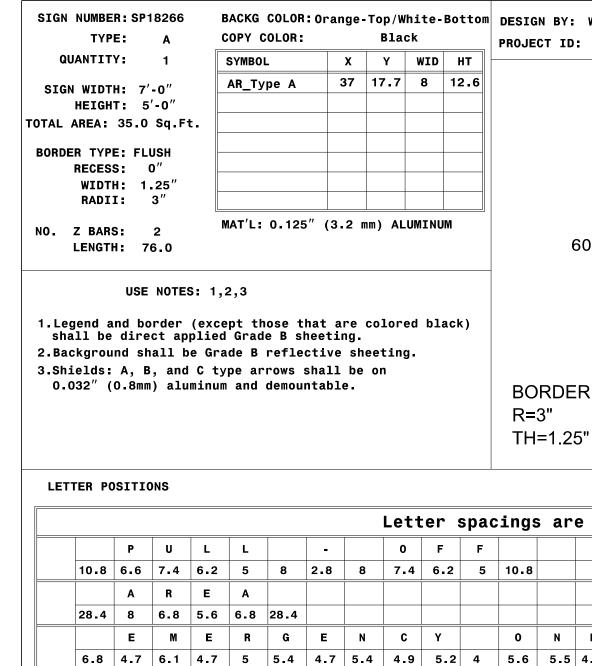
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OF E	W) COVER OR REMOVE ALL SIGNS AND DEV ROAD CLOSURE IS NOT IN OPERATION.	/ICES REQUIRED TO CLOSE THE ROAD WHEN	BB) PLACE TYPE III BARRICADE ATTACHED, OF SUFFICIENT	-	
K	X) COVER OR REMOVE ALL SIGNS REQUIRE	D FOR THE OFF-SITE DETOUR WHEN THE	CC) PLACE ADDITIONAL SETS OF	F THREE CHANNELIZING E	DEVICES (DRUMS)
LOSED	DETOUR IS NOT IN OPERATION.		PERPENDICULAR TO THE EDG UNOPENED LANES ARE CLOSE	GE OF TRAVELWAY ON 500	
	TRAFFIC BARRIER		PAVEMENT MARKINGS AND MARKEF		
N _ESS	Y) INSTALL TEMPORARY BARRIER ACCORD	ING TO THE TRANSPORTATION TWO (2) WEEKS PRIOR TO BEGINNING			
	WORK IN ANY LOCATION. ONCE TEM	PORARY BARRIER IS INSTALLED AT ANY US MANNER TO COMPLETE THE PROPOSED	DD) INSTALL TEMPORARY PAVEME ON INTERIM LAYERS OF PAV		DRARY PAVEMENT MARKERS
OF	WORK IN THAT LOCATION UNLESS O		ROAD NAME	MARKING	MARKER
			I-95 & ALL RAMPS/LOOPS	WZ PERFORMANCE	TEMPORARY RAISED
95 THE NEXT	OR CONCRETE.	ON ANY SURFACE OTHER THAN ASPHALT	ALL -Y- LINES CONCRETE BRIDGE DECKS	PAINT COLD APPLIED	TEMPORARY RAISED
TION	IS PERFORMED BEHIND THE TEMPOR	ALLED AT ANY LOCATION AND NO WORK ARY BARRIER FOR A PERIOD LONGER	EE) PLACE ONE APPLICATION OF PLACE A SECOND APPLICAT		
TION	THAN TWO (2) MONTHS, REMOVE / COST TO THE DEPARTMENT UNLESS		INITIAL APPLICATION AND ENGINEER.		
	TRANSPORTATION MANAGEMENT PLAN A HAZARD, OR AS DIRECTED BY TH	S, TEMPORARY BARRIER IS PROTECTING E ENGINEER.	FF) TRACE EXISTING AND PROPO	OSED MONOLITHIC ISLAND) LOCATIONS
	INSTALL TEMPORARY BARRIER WITH	THE TRAFFIC FLOW BEGINNING WITH	WITH PROPER COLOR PAVEME	ENT MARKINGS PRIOR TO	REMOVAL AND
NE		REMOVE TEMPORARY BARRIER AGAINST H THE DOWNSTREAM SIDE OF TRAFFIC.	PLACE DRUMS TO DELINEATE	E ANY EXISTING AND PRO	POSED
	INSTALL AND SPACE DRUMS NO GRE	ATER THAN TWICE THE POSTED SPEED	MONOLITHIC ISLANDS AFTER		
		HE SECTION OF THE ROADWAY CLOSED	GG) TIE PROPOSED PAVEMENT MA LINES.	RKING LINES TO EXISTI	NG PAVEMENT MARKING
ГНЕ	Z) PROTECT THE APPROACH END OF MO	VABLE/PORTABLE CONCRETE BARRIER	HH) REMOVE/REPLACE ANY CONFL MARKERS BY THE END OF EA	_	NT MARKINGS AND
	AT ALL TIMES DURING THE INSTAL BY EITHER A TRUCK MOUNTED ATTE	LATION AND REMOVAL OF THE BARRIER NUATOR (MAXIMUM 72 HOURS) OR A	MISCELLANEOUS		
N OPEN	TEMPORARY CRASH CUSHION.		II) LAW ENFORCEMENT SHALL B		AFETO TUDOUCU TUE WODK
ANCE	PROTECT THE APPROACH END OF MO BARRIER FROM ONCOMING TRAFFIC	-	AREA AND/OR INTERSECTIO		
EA.	CRASH CUSHION UNLESS THE APPRO CONCRETE BARRIER IS OFFSET FRO		JJ) IN THE EVENT A TIE-IN C		-
	OR AS SHOWN IN THE PLANS: (SEE	ALSO 1101.05)	TIE-IN AREA TO AN APPRO THE ENGINEER. PLACE BL	ACK ON ORANGE "LOOSE	GRAVEL" SIGNS (W8-7)
	POSTED SPEED LIMIT 40 OR LESS	MINIMUM OFFSET 15 FT	AND BLACK ON ORANGE "PA 500 RESPECTIVELY IN ADV	ANCE OF THE UNEVEN AR	EAS. USE DRUMS
	45 - 50 55	20 FT 25 FT	TO DELINEATE THE EDGE O DOES NOT APPLY TO I-95		ED AREAS. THIS NOTE
N	60 MPH or HIGHER	30 FT	KK) ALL CURB RAMP LOCATIONS	SHALL BE DERIVED FROM	STATIONING ON PAVEMENT
	TRAFFIC CONTROL DEVICES		MARKING PLANS OR AS DIRE THE SIGNING AND DELINEAT		IN COORDINATION WITH
ANY	AA) WHEN LANE CLOSURES ARE NOT IN IN WORK AREAS NO GREATER IN FEE	EFFECT SPACE CHANNELIZING DEVICES			
	(MPH) EXCEPT, 10 FT ON-CENTER I	N RADII, AND 3 FT OFF THE EDGE OF			Stantec
IGNS Y THE	STRUCTURES SECTIONS 1130 (DRUMS (SKINNY DRUMS) FOR ADDITIONAL R	S), 1135 (CONES) AND 1180	DI ANO DOCOADED ESS THE	NODAT DY	
	(ONTION DIGMO) FOR ADDITIONAL P		PLANS PREPARED FOR THE M MOTT MACDONALD 1101 HAYNES STREET) & E, LLC	Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300
ORDING T PLANS.			MOTT MACDONALD NC LICENSE N	4	Raleigh, NC 27606 Tel. 919.851.6866
SHOWN IN					Fax. 919.851.7024 www.stantec.com License No. F-0672
	Γ	Lori D. Stouchko	J.W. Wooland, Jr.	SOF H,	
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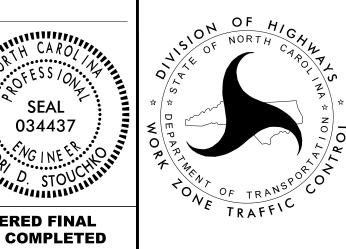
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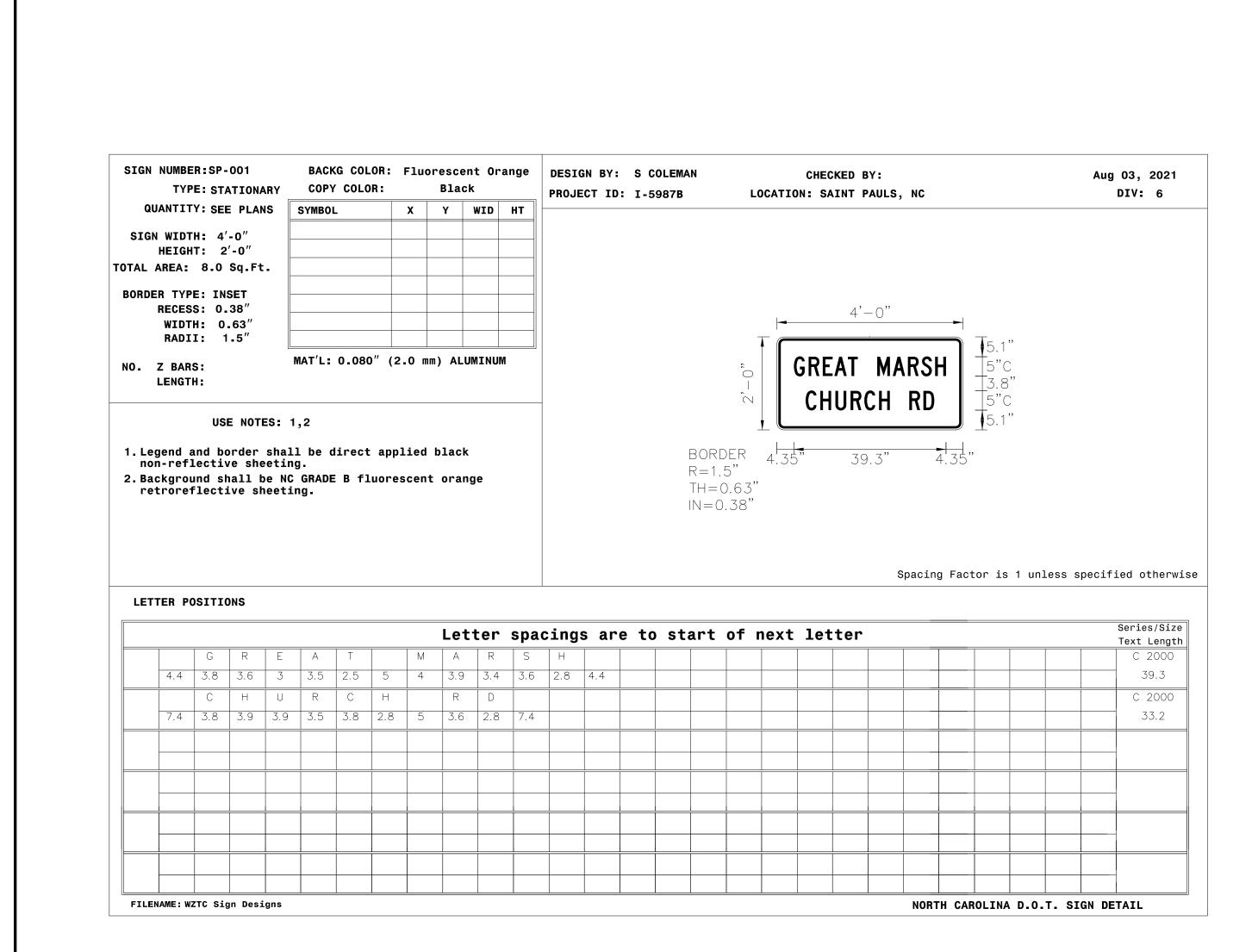
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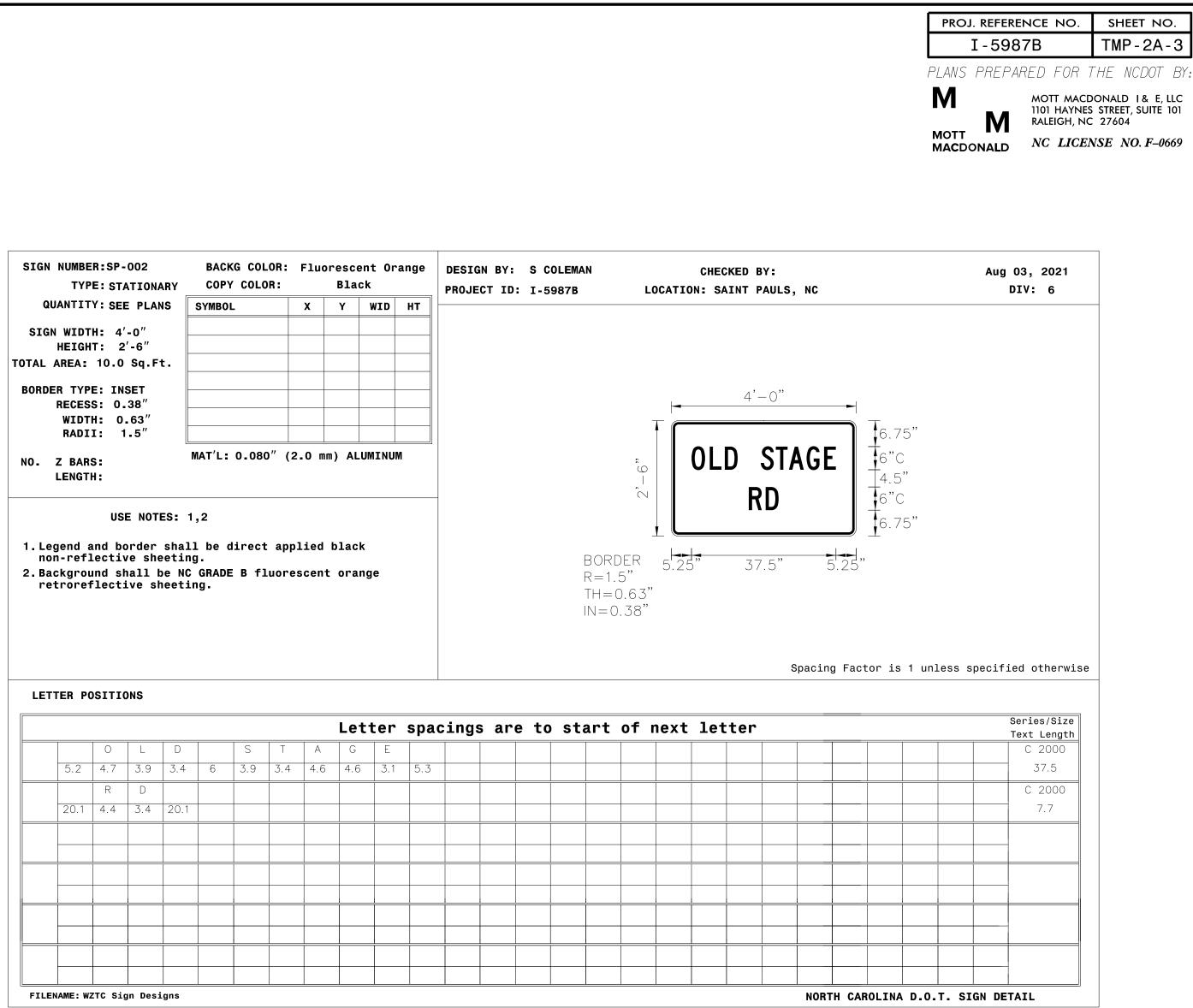
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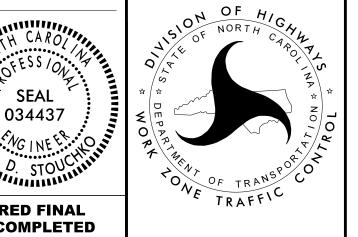
PULL-OFF AREA SPECIAL SIGN DESIGNS





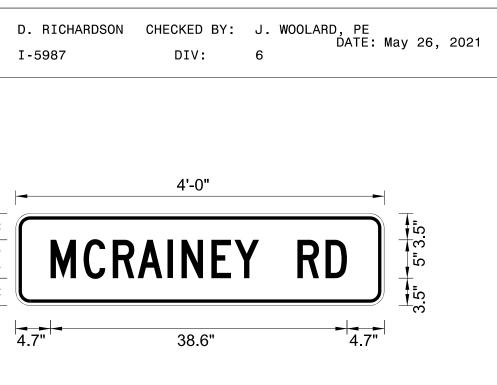
								Let	ter	spac	ings	ar
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5.2	4.7	3.9	3.4	6	3.9	3.4	4.6	4.6	3.1	5.3		
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DocuSigned by:
APPROVED: Lori D. Stouchko 6C933CB5742F461
4/29/2022 DATE: 4/29/2022
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DOCUMENT NOT CONSIDER UNLESS ALL SIGNATURES C



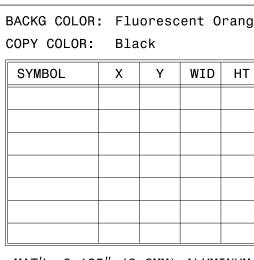
SECTION 1 SPECIAL SIGN DESIGNS

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SIGN WI	GHT:	4'-0 1'-0			SYME	30L	X	Y	WID	HT			
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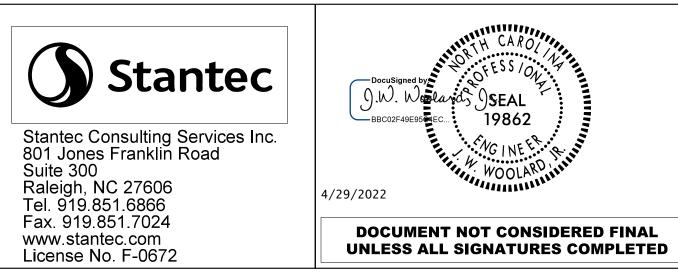


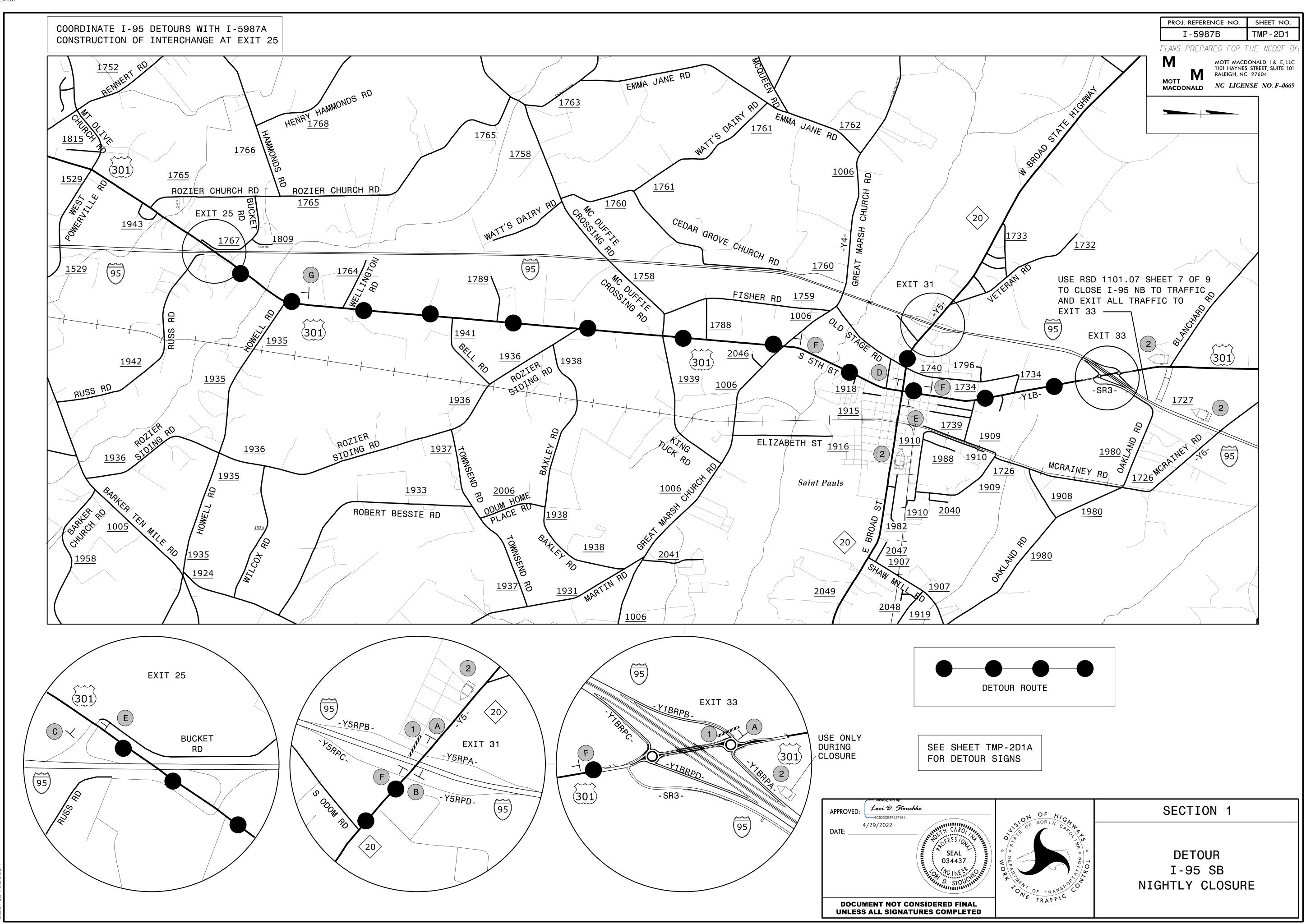
Spacing Factor is 1 unless specified otherwise

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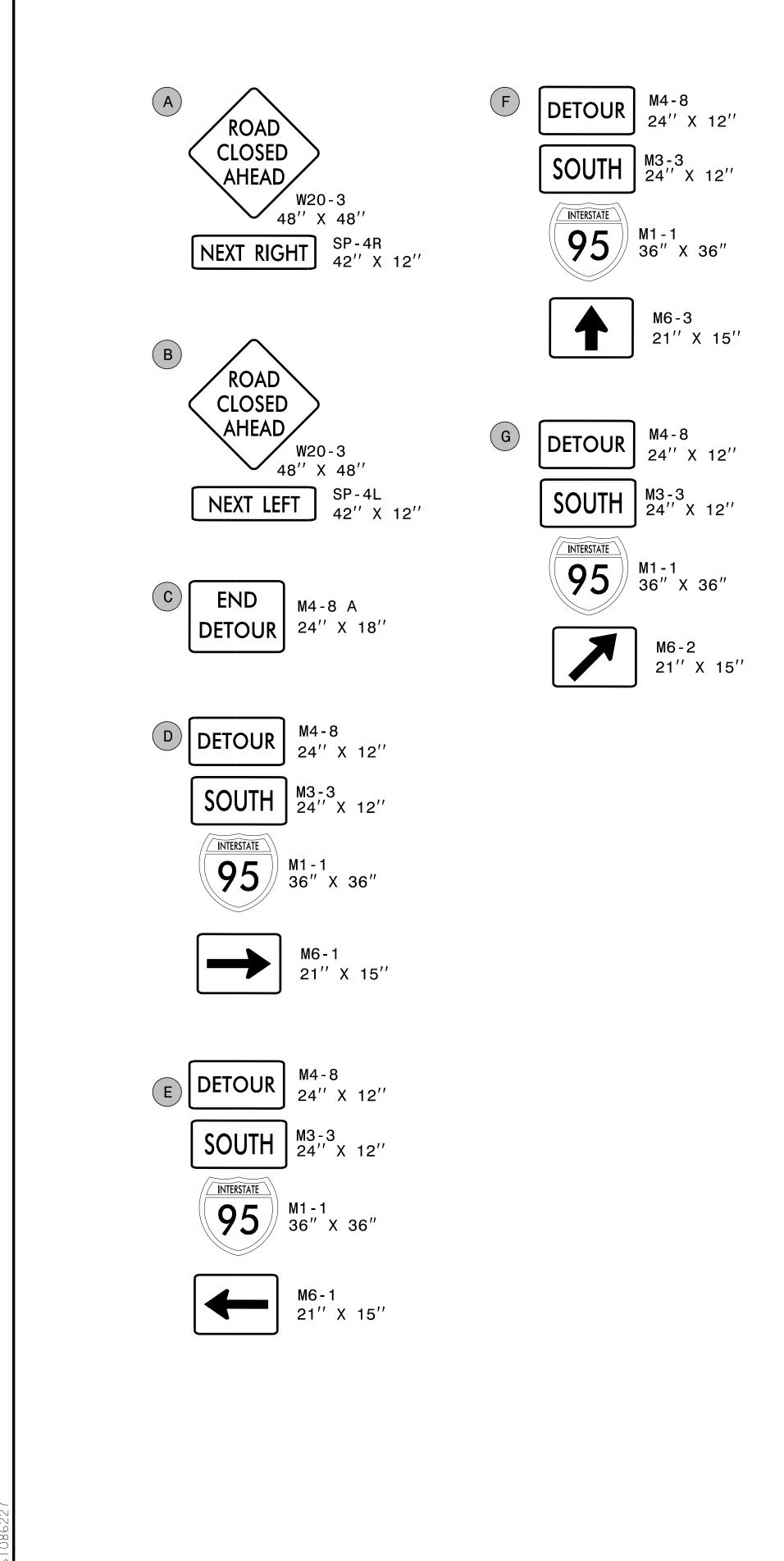


TYPE: STATIONARY COPY QUANTITY: SEE PLANS	(COLOB: Black	. RICHARDSON CHECKED BY: J. WOOLARD, DIV: 6	PROJ. REFERENCE NO. I-5987B TMP-2A4
HEIGHT: 1'-6" TOTAL AREA: 6.0 Sq.Ft. BORDER TYPE: RECESSED RADII: 1.5" WIDTH: 0.63" RECESS: 0.38" NO. Z BARS: LENGTH:	R=1.5"	4'-0" PARKTON DARKTON DOBEMORY B 5"	
LETTER POSITIONS P A R K T 11.95 3.4 3.9 3.6 3.3 3.1 T O B E M 3.85 3.2 3.9 3.6 3.4 4.3 Image: Stress of the stres stress of the stress of the stress of the stress o		Spacing Factor is 1 unless s t letter	Series/Size Text Length C 2000 24.1 C 2000 40.3
		OF HIL	SECTION 2
Stantec Consulting Services Inc. 1 Jones Franklin Road lite 300 leigh, NC 27606 1. 919.851.6866 x. 919.851.7024 ww.stantec.com cense No. F-0672	DocuSigned by J.W. Worlands JSEAL BBC02F49E95 EC 19862	NORTH CAPLE NORTH	PECIAL SIGN DESIGNS

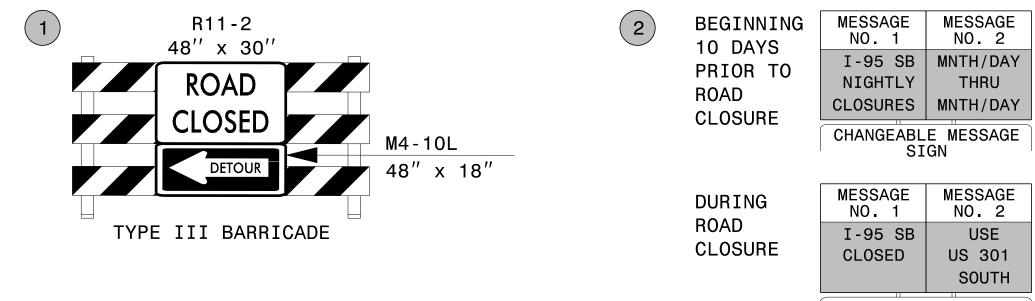










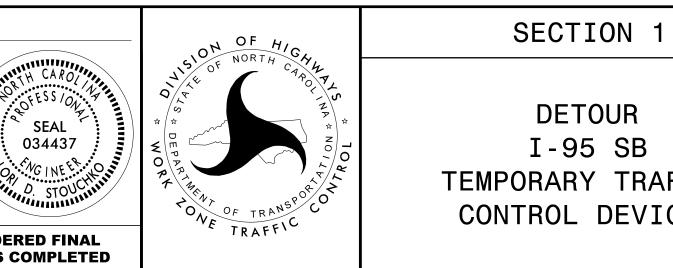


CHANGEABLE MESSAGE SIGN

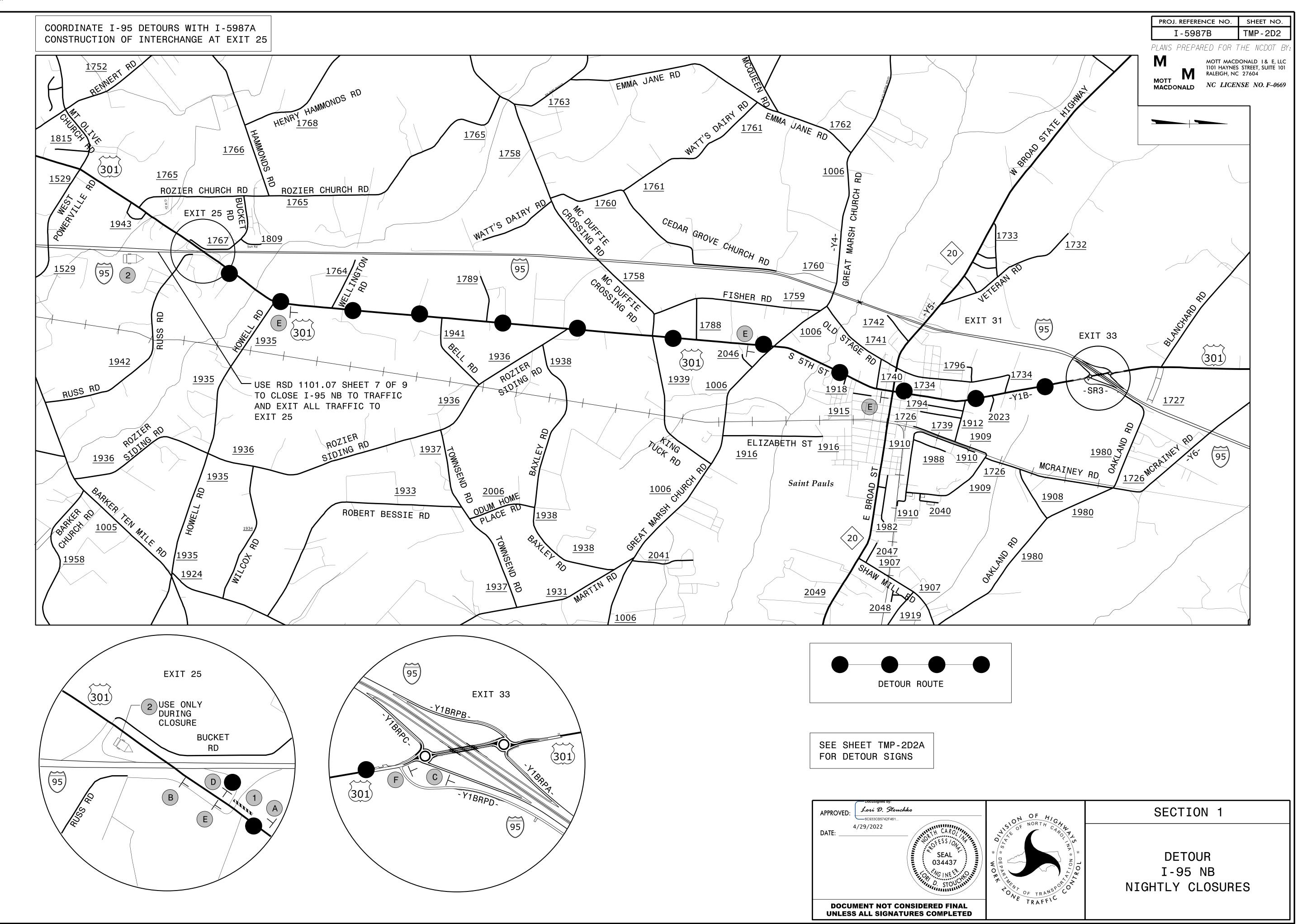
SEE SHEET TMP-2D1 FOR DETOUR

APPROVED:	Lori D. Stouchko 6C933CB5742F461
DATE:	4/29/2022
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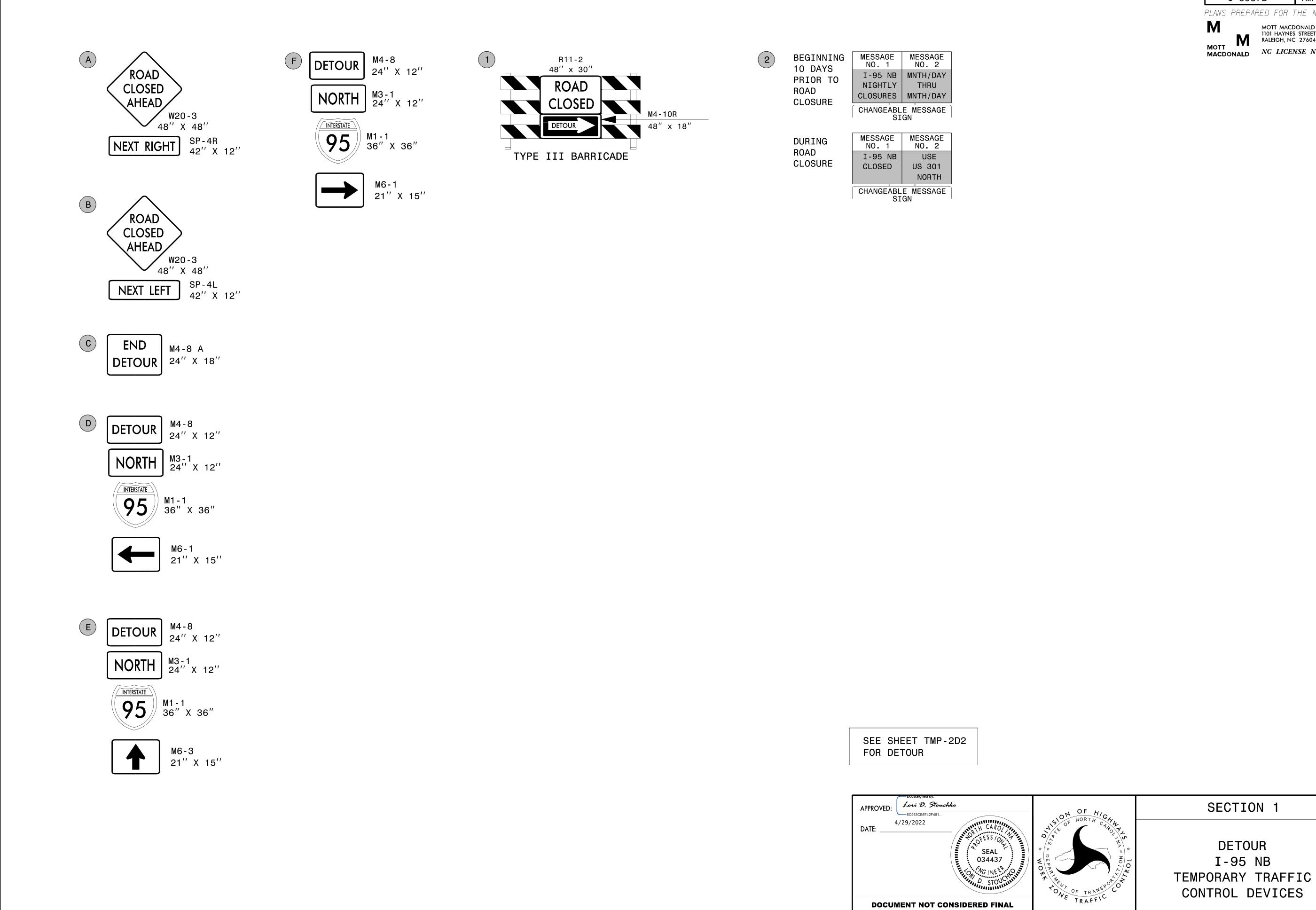
PROJ. REFE	RENCE NO.	SHEET NO.
I-59	87B	TMP-2D1A
PLANS PREP	ARED FOR T	THE NCDOT BY:
M M		ONALD 1 & E, LLC 5 STREET, SUITE 101 2 27604
MOTT MACDONALD	NC LICEN	NSE NO. F-0669



DETOUR I-95 SB TEMPORARY TRAFFIC CONTROL DEVICES



3/15/2022 G:\50||0019| NV5 |-5987B\|-5987B\TrafficContro|\Tcp\|-5987B_TC_TMP-02D02 |-95_NB_Deto|

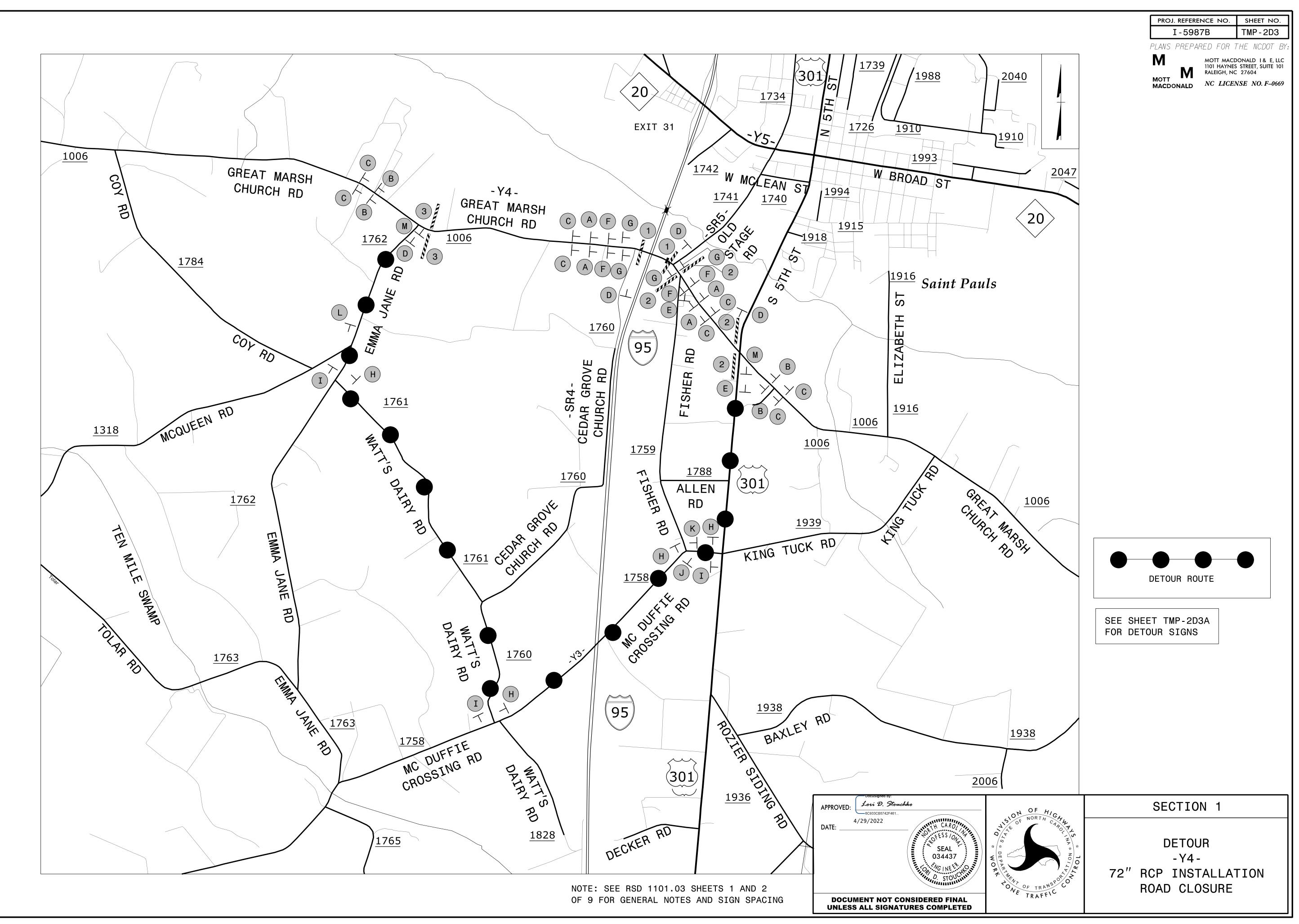




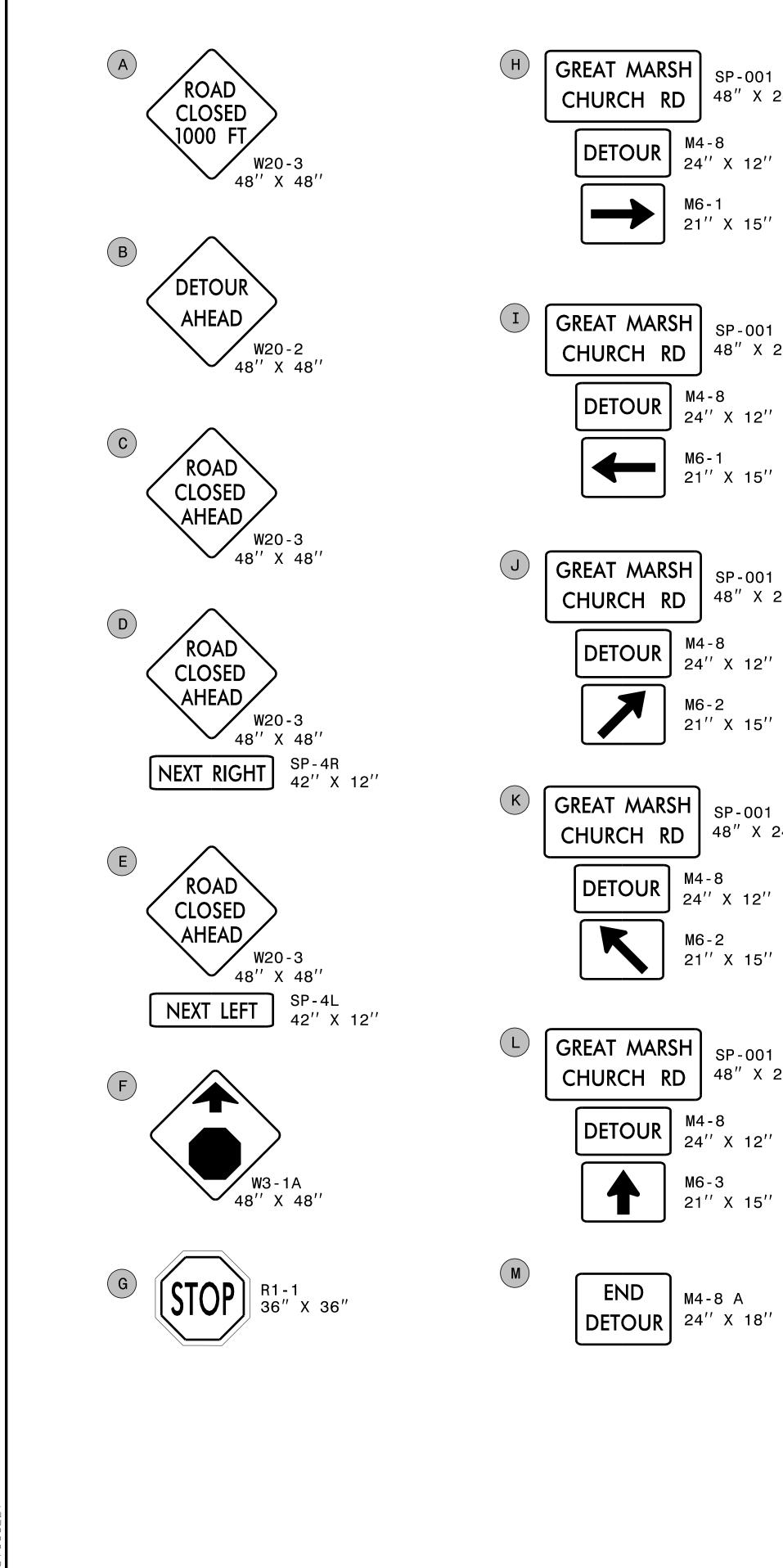
FOR DETOUR	
APPROVED: Lori D. Stouchko	
6C933CB5742F461 4/29/2022	
DATE:	P 0
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJ. REFERE	NCE NO.	SHEET NO.
I - 598	7B	TMP-2D2A
PLANS PREPA	RED FOR T	THE NCDOT BY
M MOTT MACDONALD	1101 HAYNES RALEIGH, NC	DONALD I& E, LLC S STREET, SUITE 101 C 27604 NSE NO.F-0669









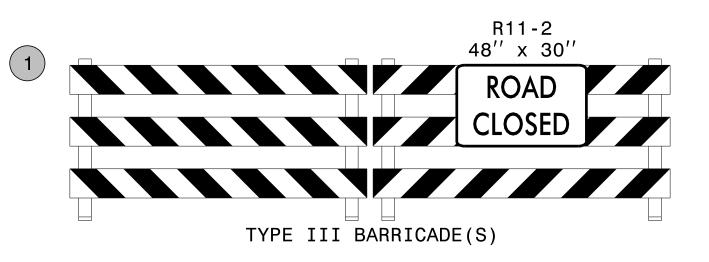
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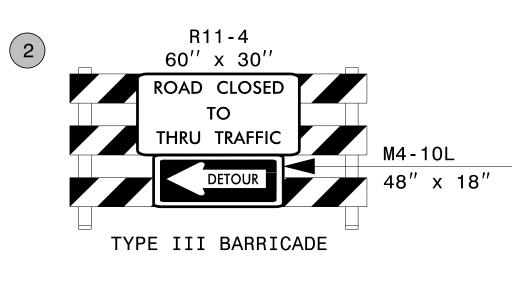
SP-001 48″ X 24″

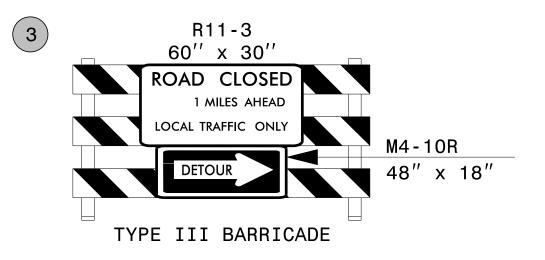
SP-001 48″ X 24″

48″ X 24″

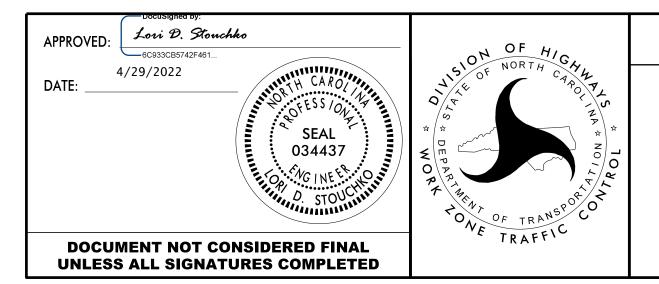
SP-001 48″ X 24″







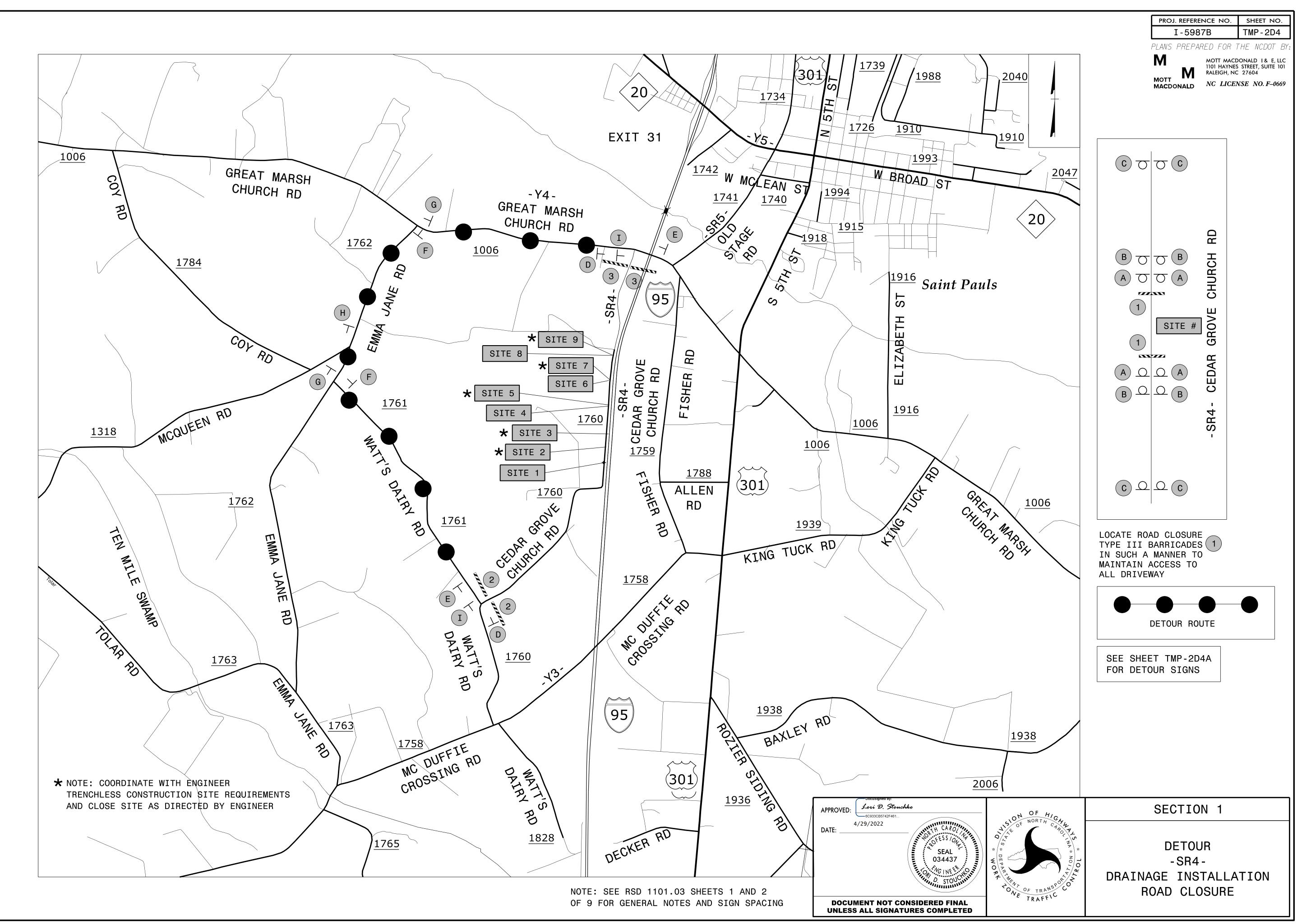
SEE SHEET TMP-2D3 FOR DETOUR



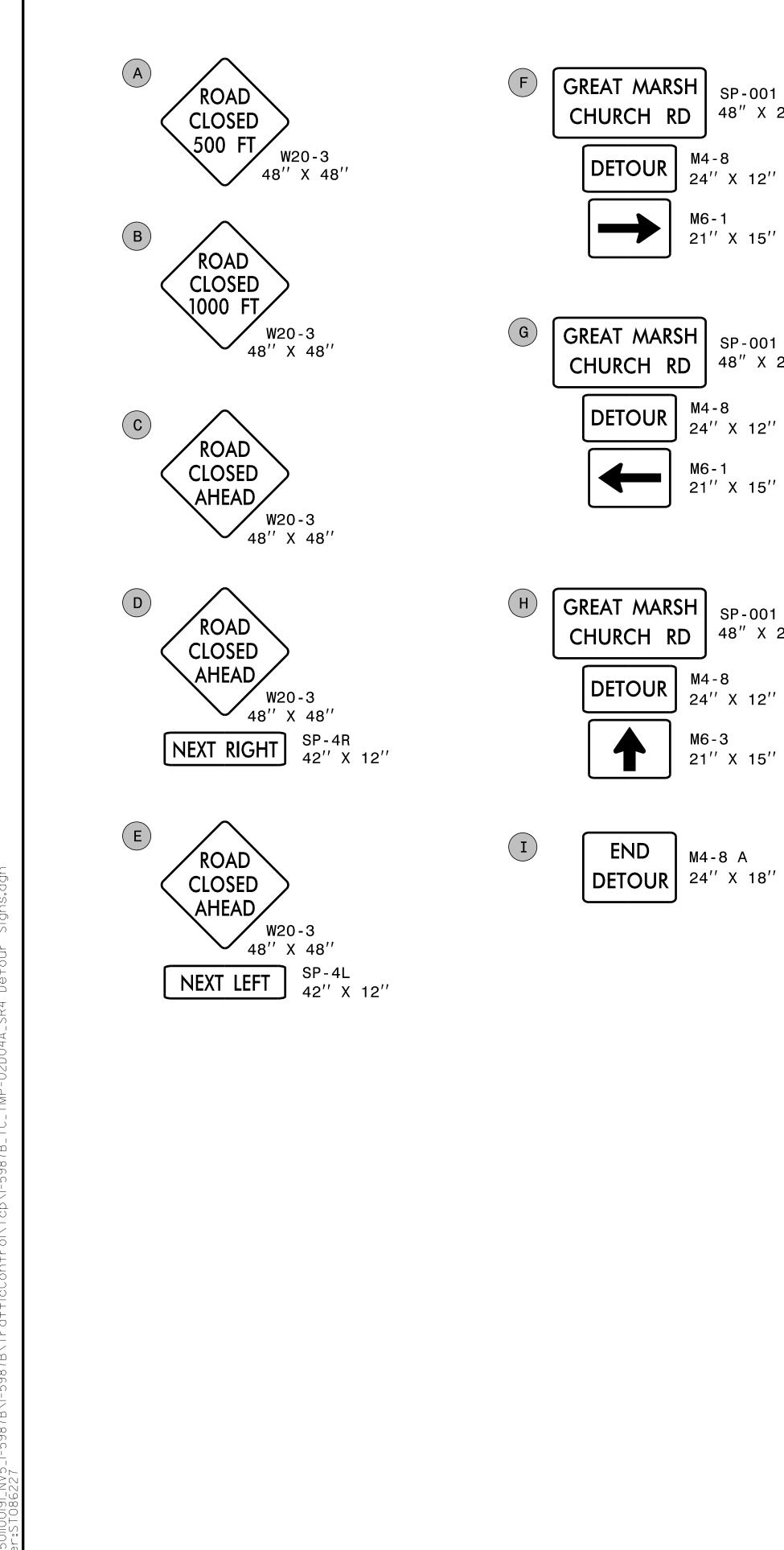
DETOUR - Y4 -ROAD CLOSURE TEMPORARY TRAFFIC CONTROL DEVICES

SECTION 1

PROJ. REFERENCE NO. SHEET NO. TMP-2D3A I-5987B PLANS PREPARED FOR THE NCDOT BY Μ MOTT MACDONALD I & E, LLC 1101 HAYNES STREET, SUITE 101 RALEIGH, NC 27604 Μ MOTT NC LICENSE NO. F-0669







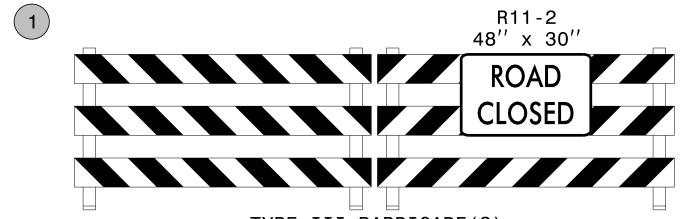


SP-001 48″ X 24″

SP-001 48″ X 24″ 2

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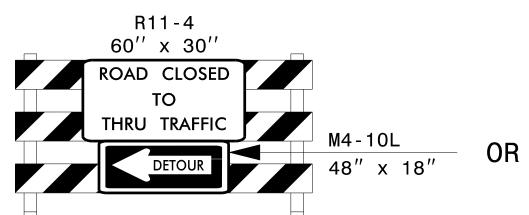
SP-001 48″ X 24″



TYPE III BARRICADE(S)

M4-10R

x 18″



TYPE III BARRICADE NOTE: USE "ROAD CLOSED TO THRU TRAFFIC" WHERE DISTANCE TO CLOSURE IS 1 MILE OR LESS

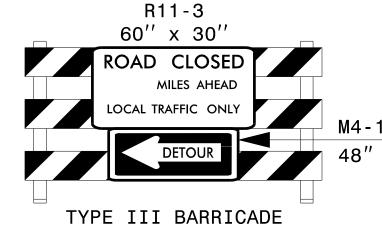
R11-4

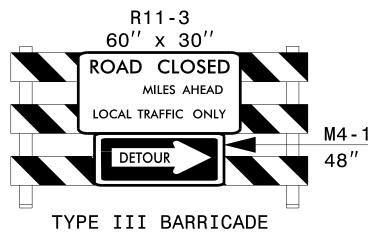
60" x 30'

ROAD CLOSED

ΤO

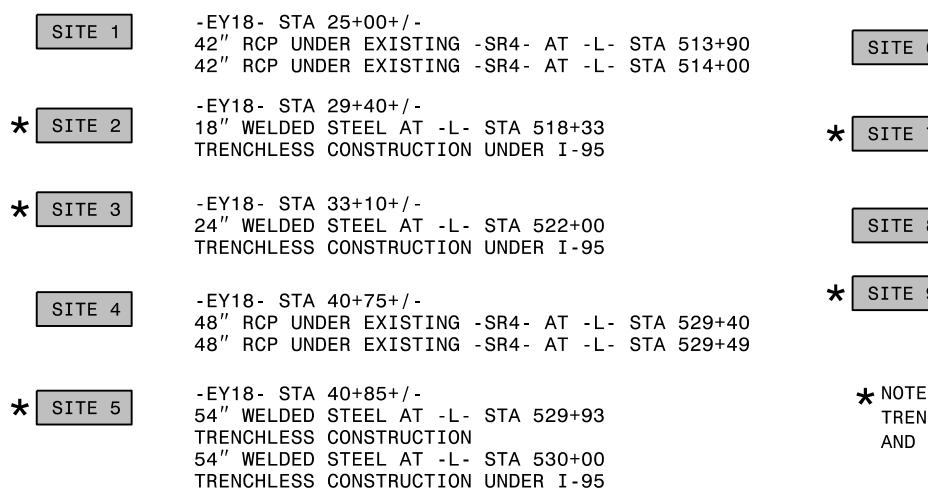
THRU TRAFFIC





TYPE III BARRICADE NOTE: USE "ROAD CLOSED TO THRU TRAFFIC" WHERE DISTANCE TO CLOSURE IS 1 MILE OR LESS

SUMMARY OF DRAINAGE SITES



OR

SEE SHEET TMP-2D4 FOR DETOUR

APPROVED:	Lori D. Stouchko 6C933CB5742F461
DATE:	4/29/2022
	CRIMINAL CRIME
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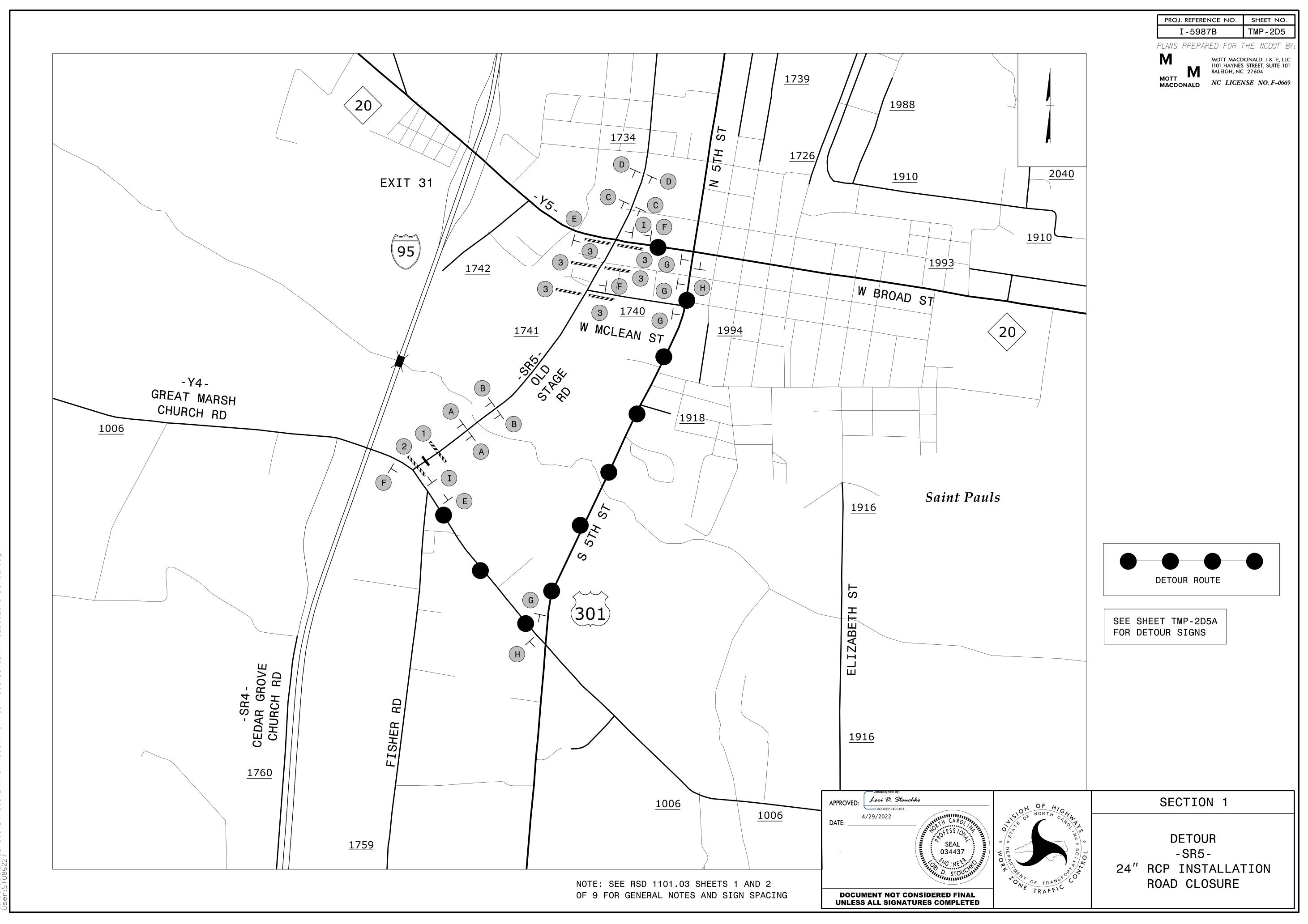
	Μ	MOTT MACDONALD I & E, LLC 1101 HAYNES STREET, SUITE 101 RALEIGH, NC 27604 NC LICENSE NO. F-0669
<u>10L</u> x 18"		
<u>10R</u> x 18"		
S ON - SR4-		
E 6 -EY18- STA 47+80+/- 30" RCP UNDER EXISTIN -EY18- STA 47+80+/-		A 536+75
-EY18- STA 47+80+/- 24" WELDED STEEL AT TRENCHLESS CONSTRUCT: -EY18- STA 54+75+/-		
E 8 30" RCP UNDER EXISTI -EY18- STA 54+75+/- 36" WELDED STEEL AT TRENCHLESS CONSTRUCT:	-L- STA 543+55	A 543+55
TE: COORDINATE WITH ENGINEER ENCHLESS CONSTRUCTION SITE REQU D CLOSE SITE AS DIRECTED BY ENG		
	SECT	ION 1
RED FINAL COMPLETED	DET -S DRAINAGE I TEMPORAR	TOUR R4- NSTALLATION Y TRAFFIC DEVICES

PROJ. REFERENCE NO.

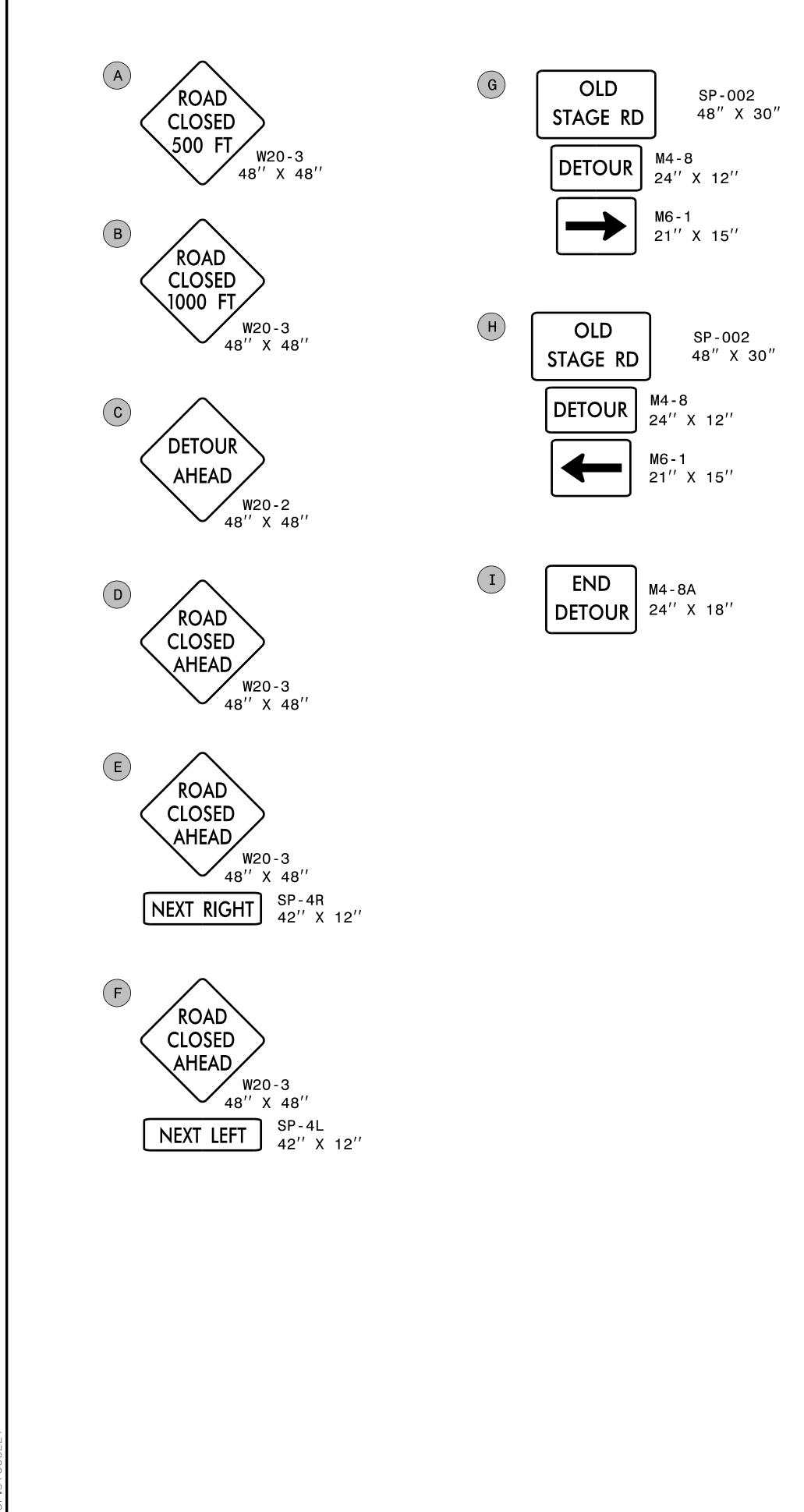
PLANS PREPARED FOR THE NCDOT BY:

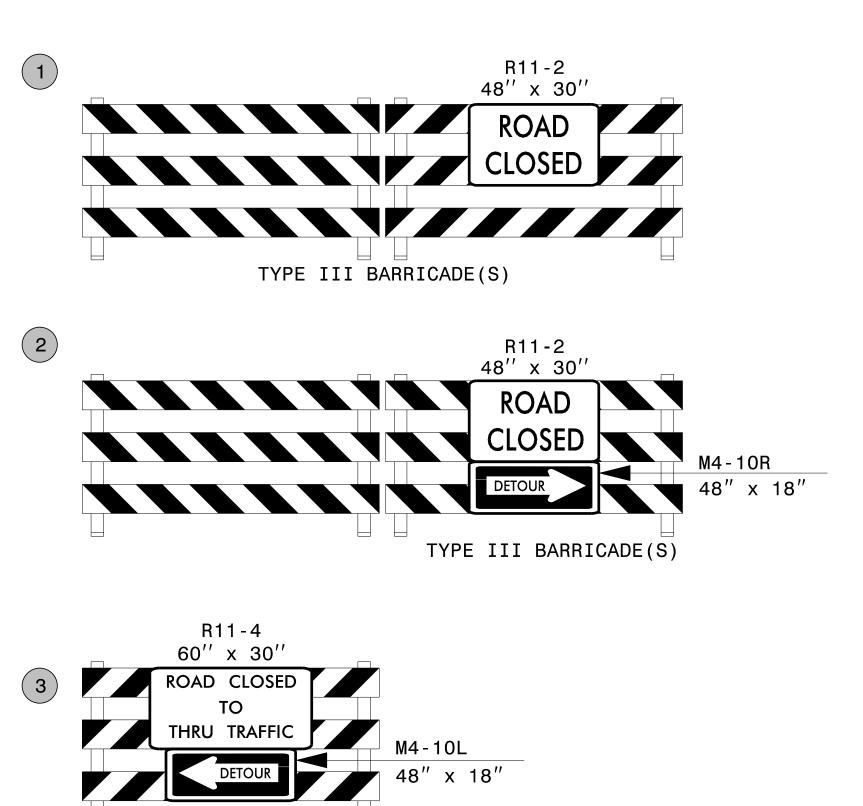
I-5987B

SHEET NO. TMP-2D4A





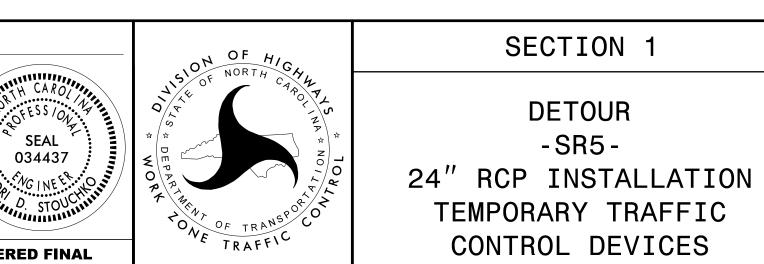


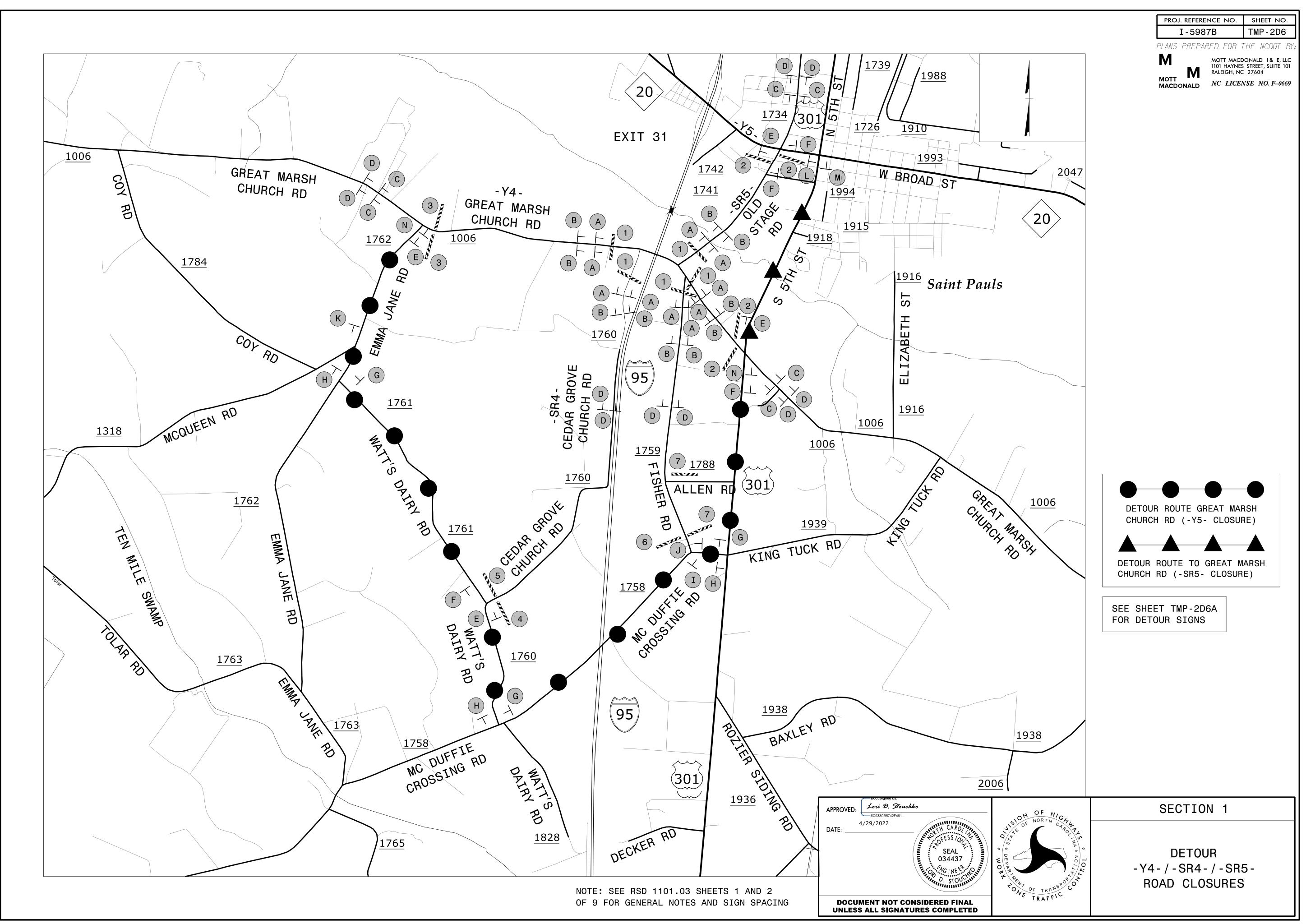


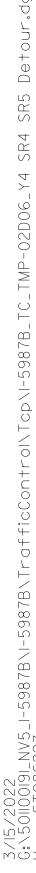
TYPE III BARRICADE

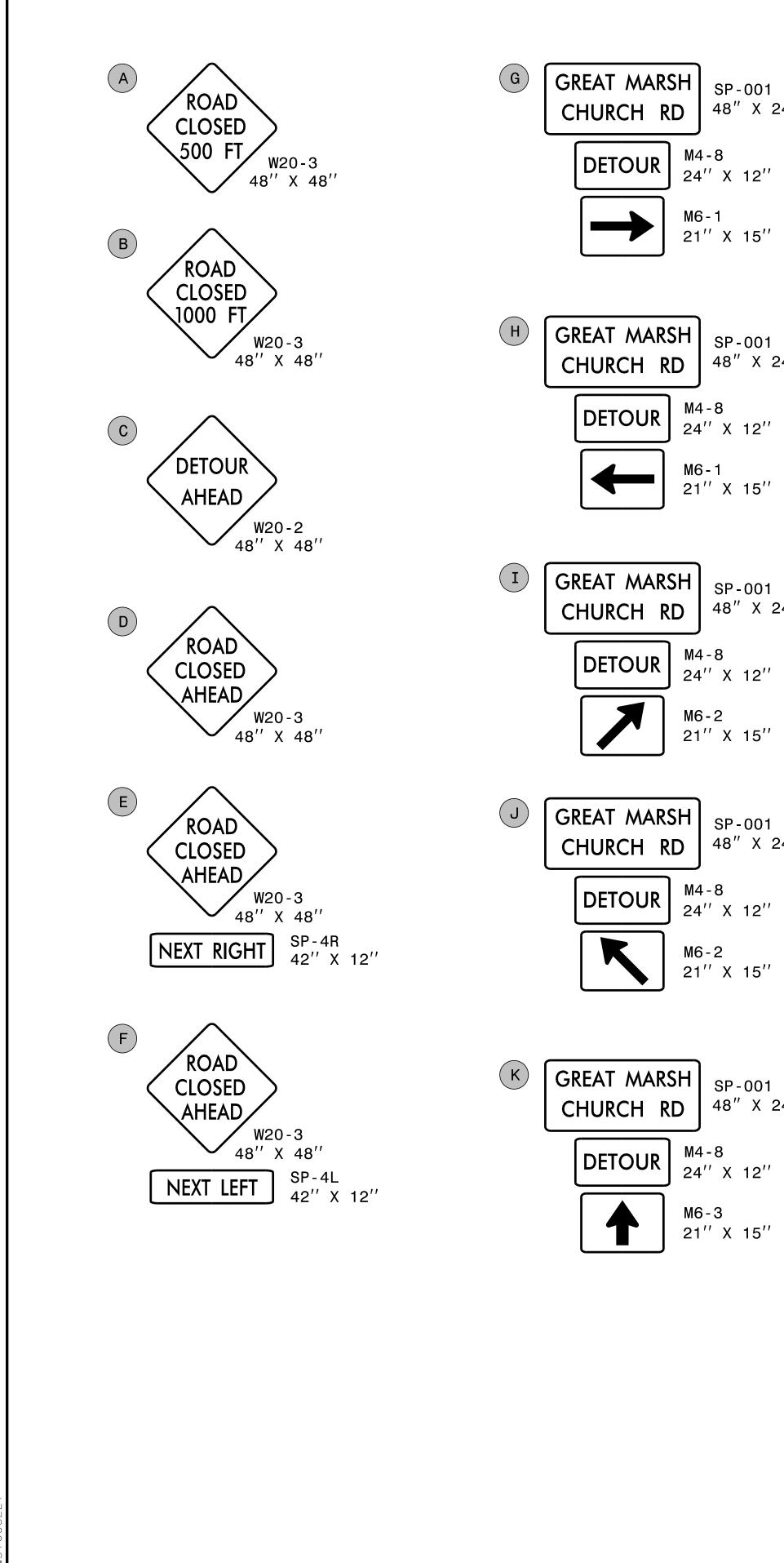
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APPROVED:	— Docusigned by: Lori D. Stone — 6C933CB5742F461	chko
4/ DATE:	29/2022	SEAL 034437
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PROJ. REFERENCE NO.		SHEET NO.
I-598	87B	TMP-2D5A
PLANS PREPA	RED FOR T	THE NCDOT BY
M M		ONALD I & E, LLC STREET, SUITE 101 27604
MOTT MACDONALD	NC LICEN	NSE NO. F-0669









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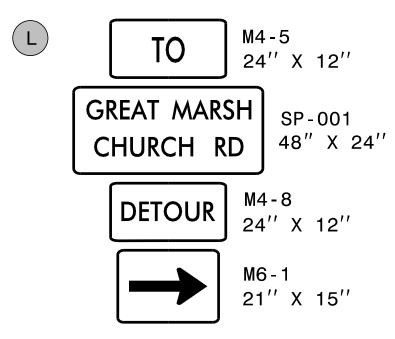
SP-001 48″ X 24″

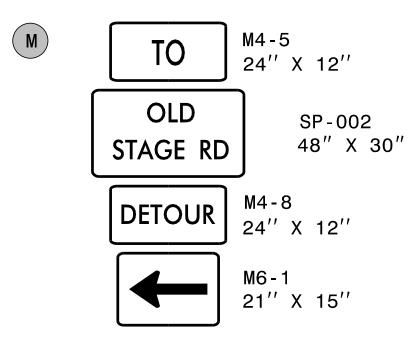
SP-001 48″ X 24″

SP-001 48″ X 24″

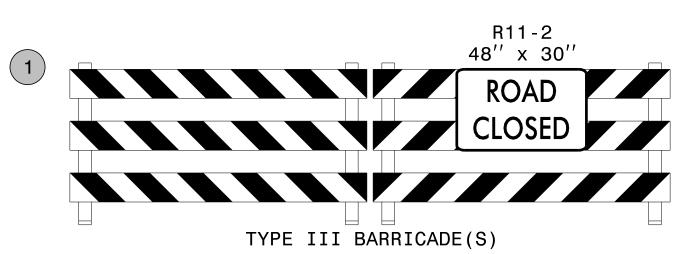
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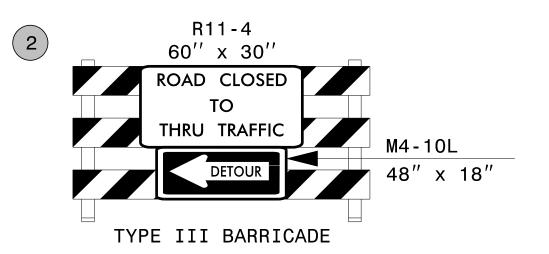
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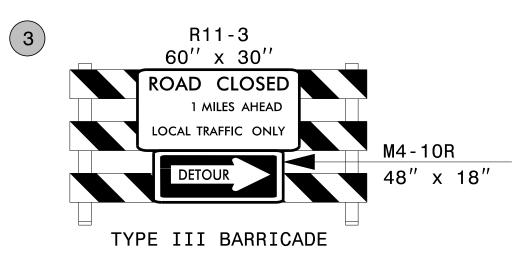




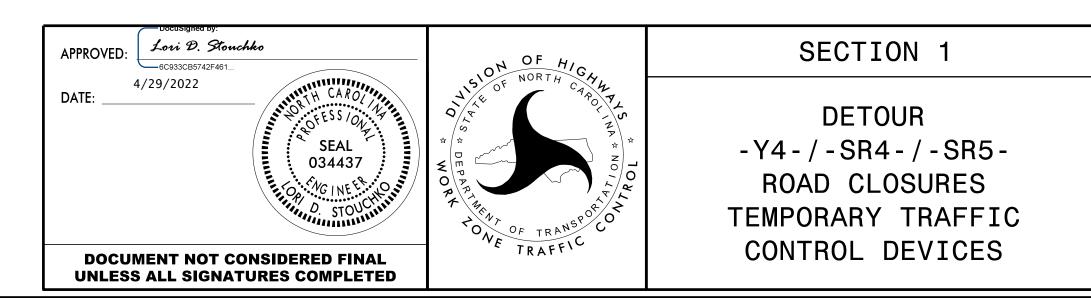






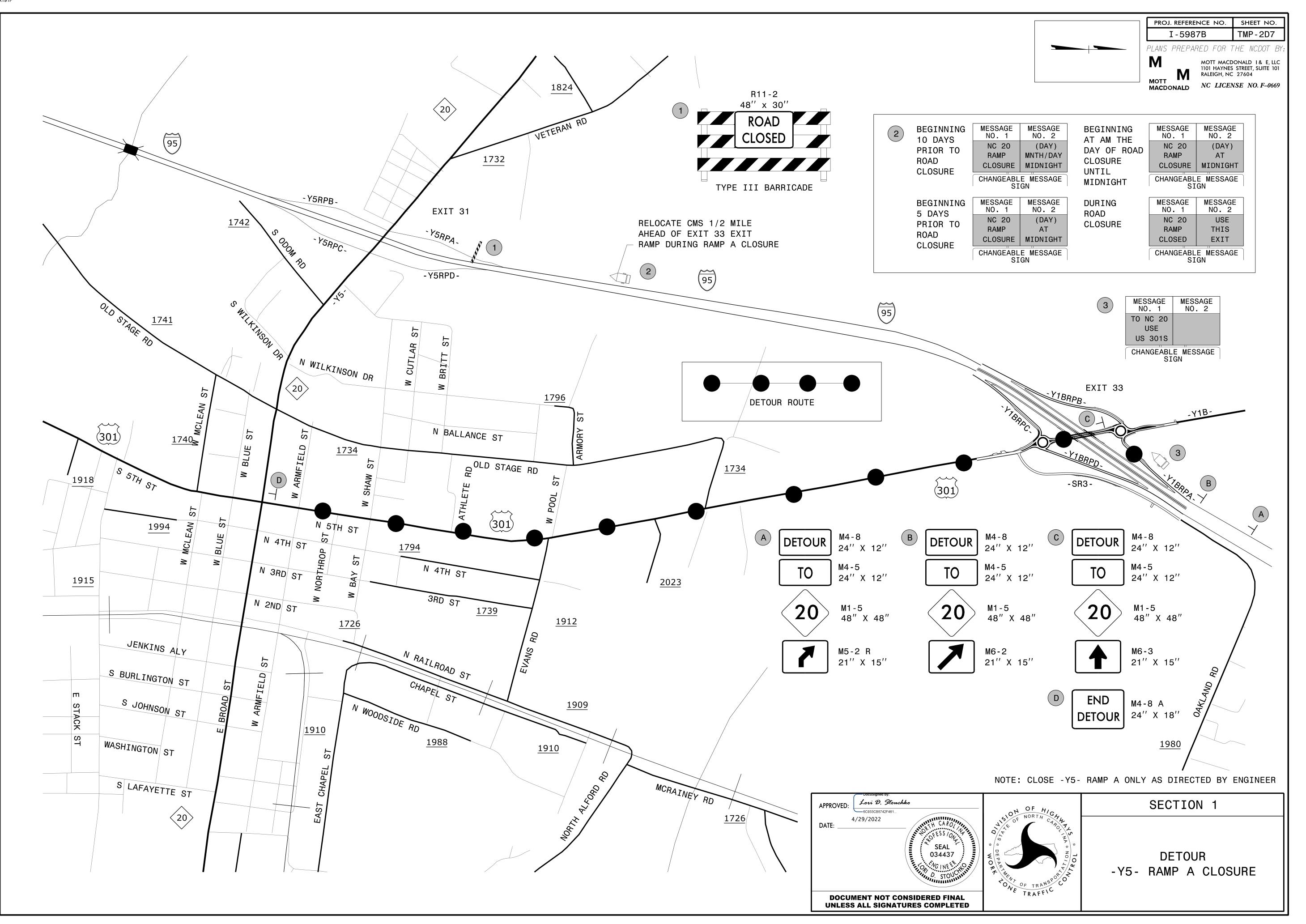


SEE SHEET TMP-2D6 FOR DETOUR

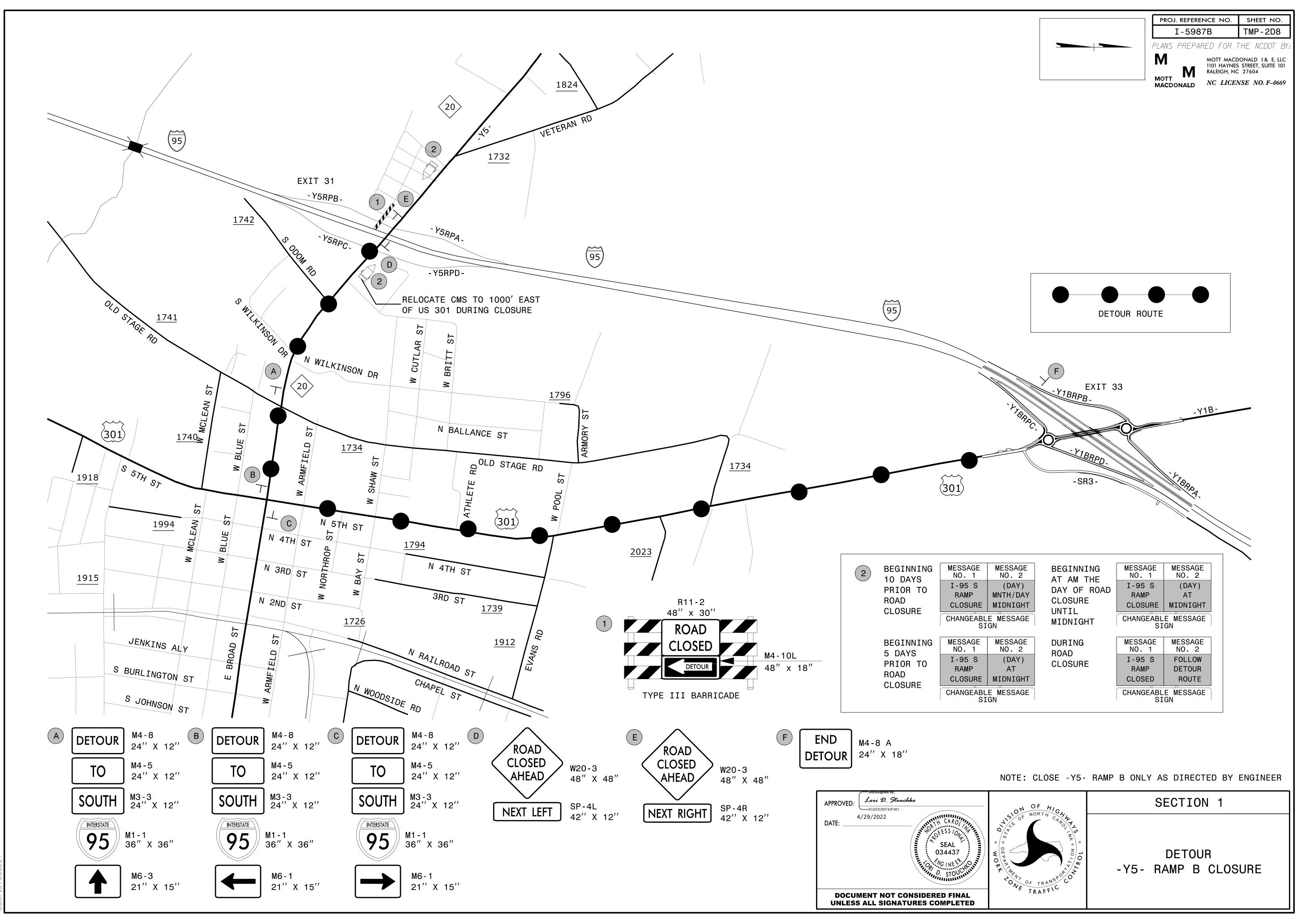




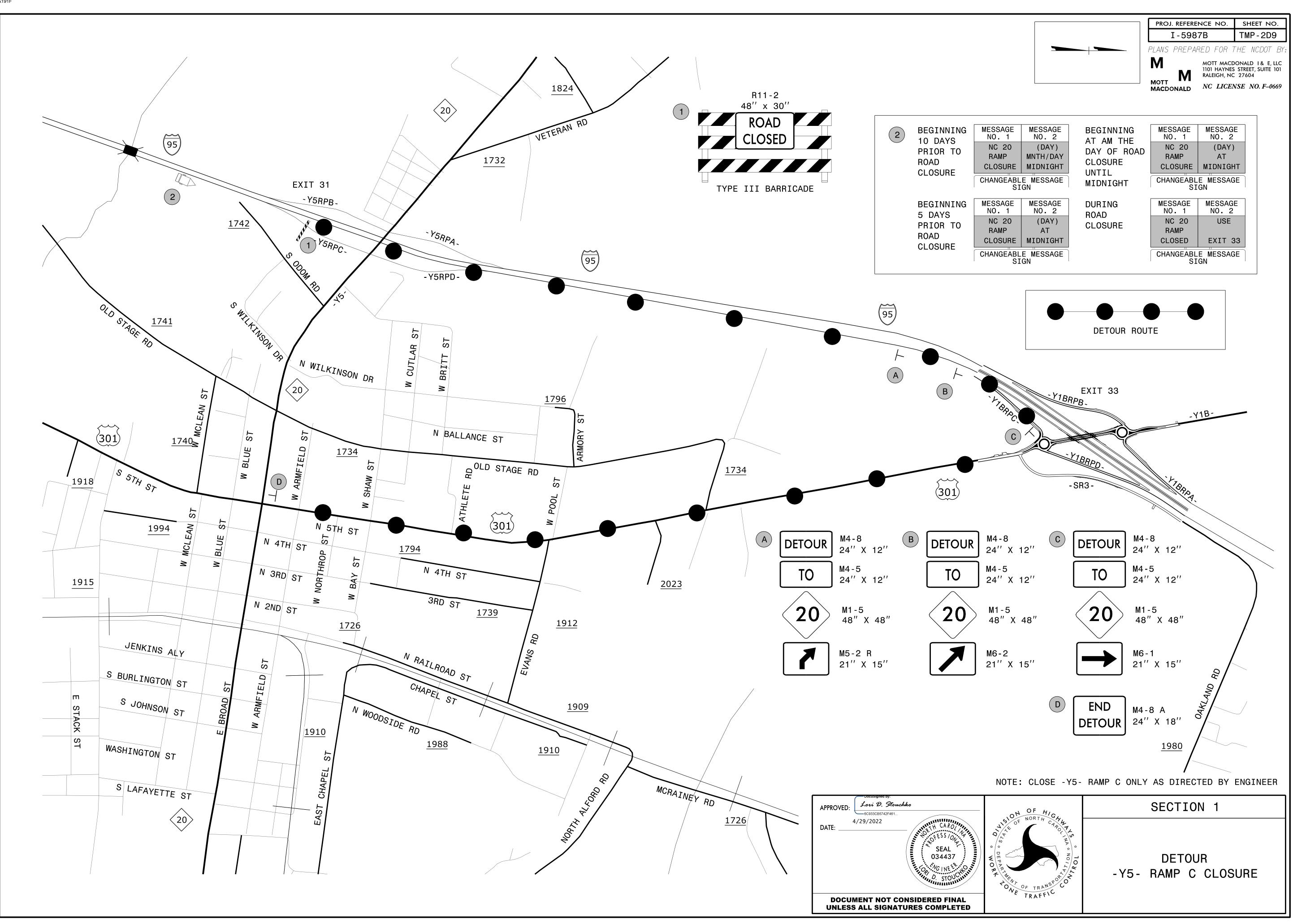
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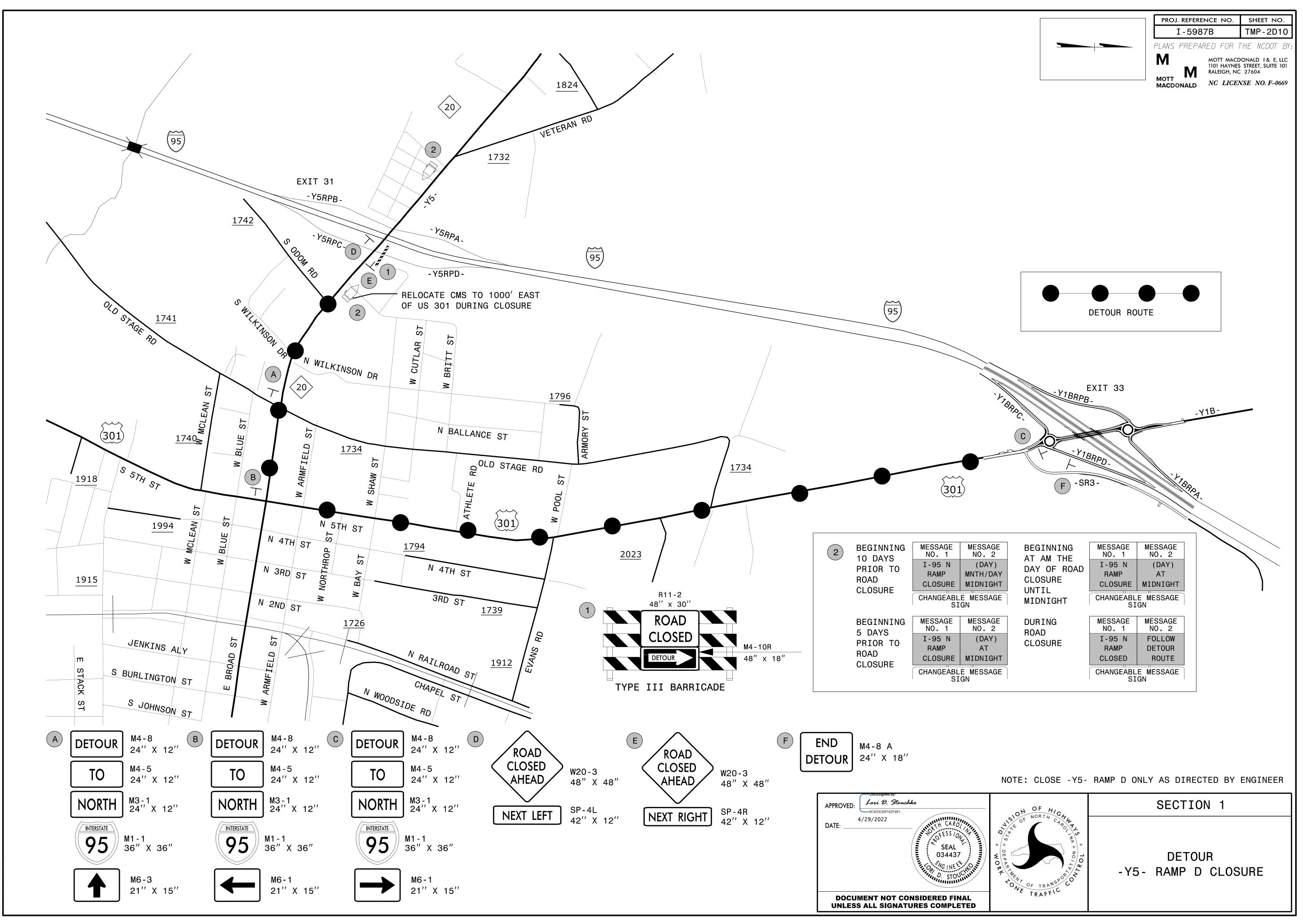
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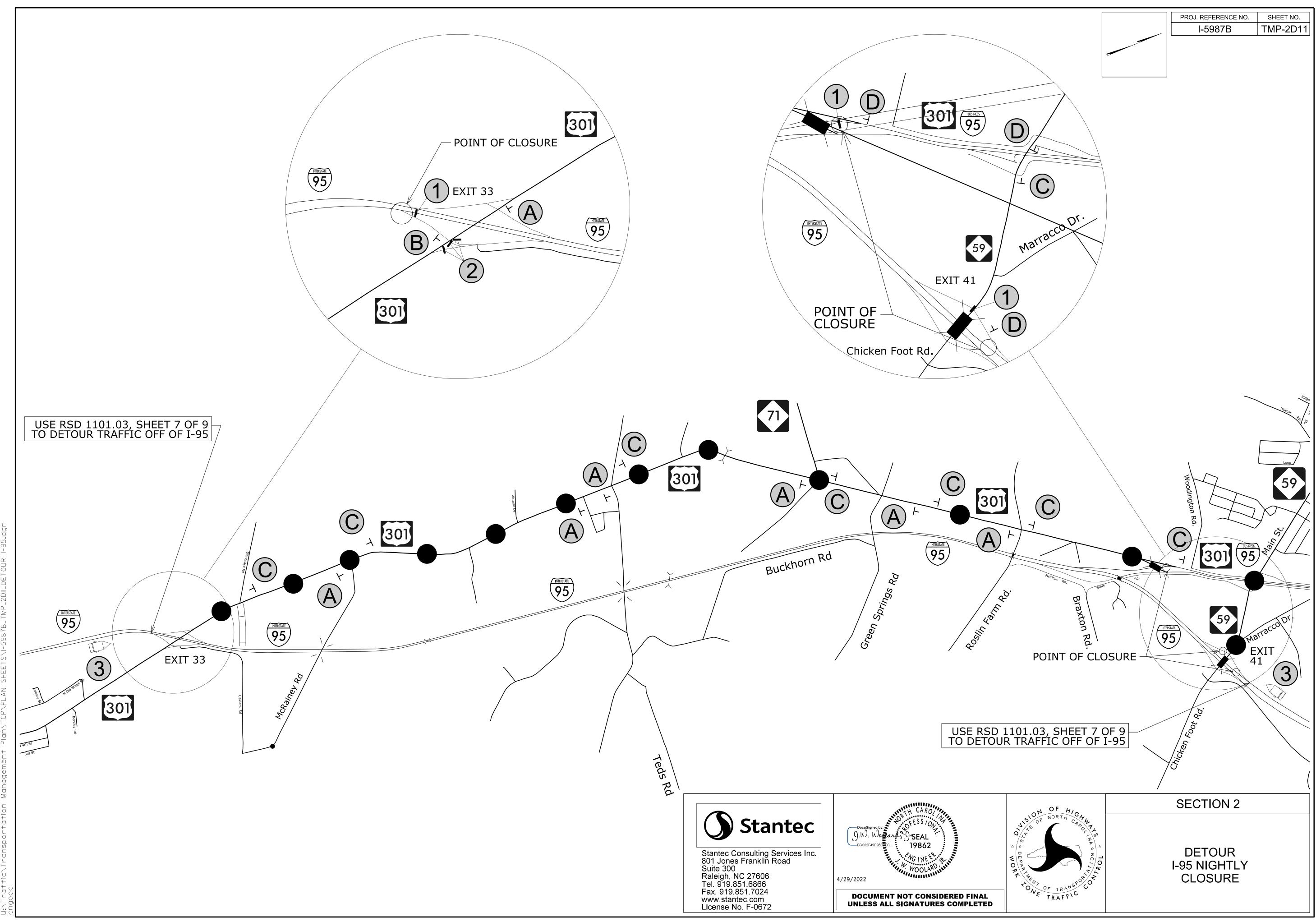
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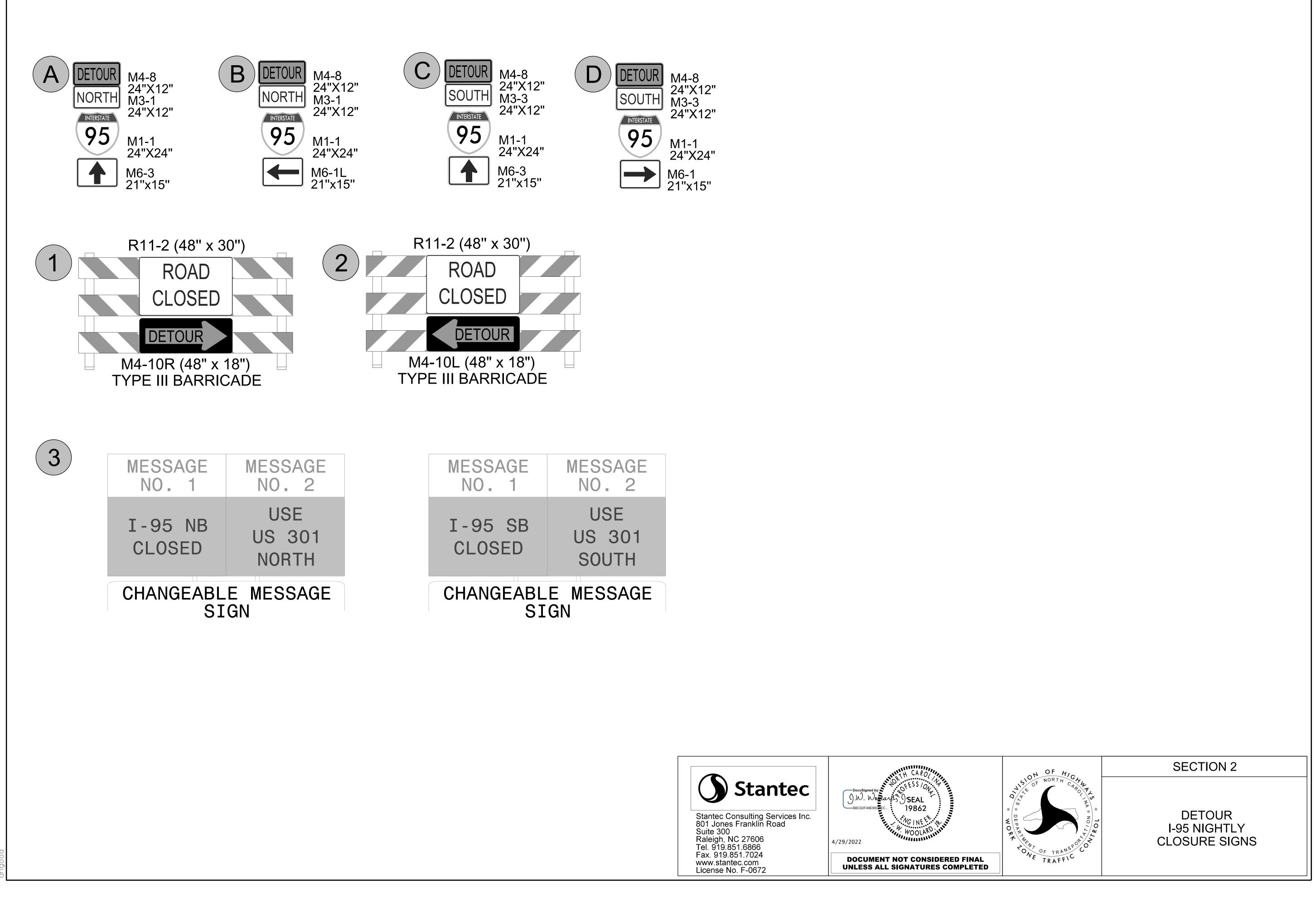
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3/15/20/22 G:\501100191_NV5_1-5987B\1-5987B\TrafficContro\\Tcp\1-5987B_TC_TMP-02D10_Y5 Ramp D Deto DocuSign Envelope ID: 6F7843C9-E2B0-446A-B012-73A90DEA191F







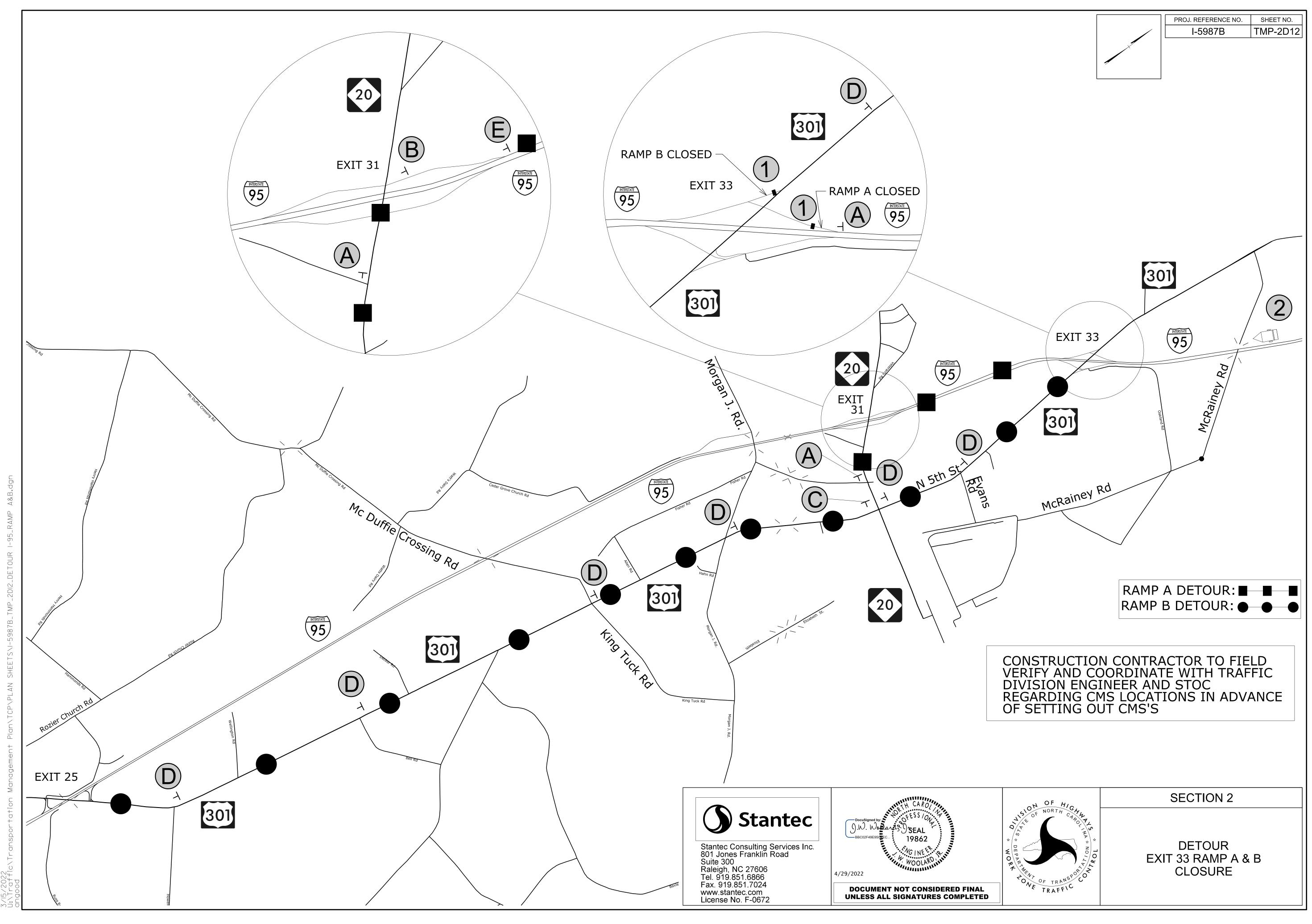
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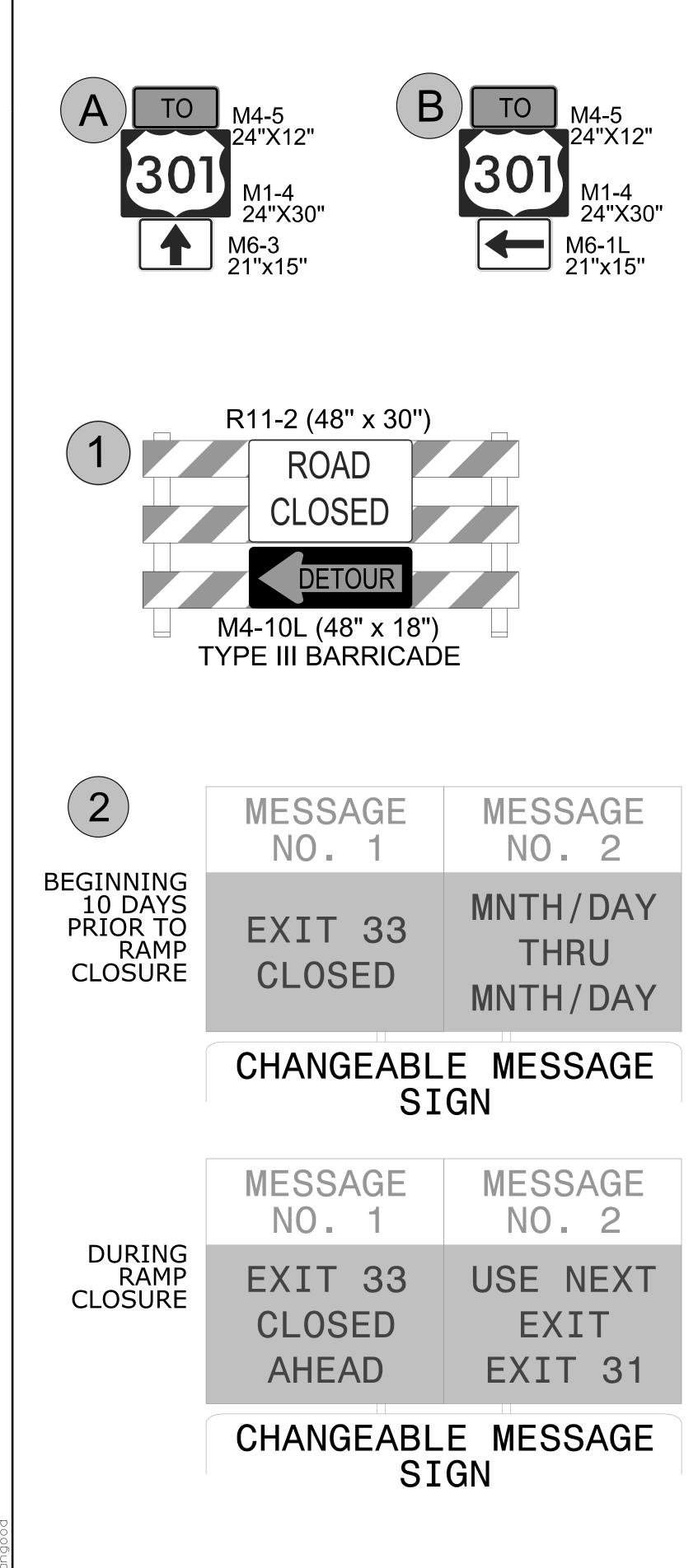
I-5987B

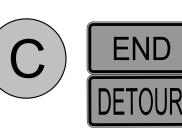
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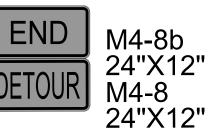
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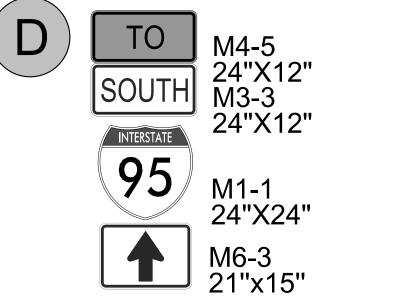
MESSAGE NO. 1	MESSAGE NO. 2	
I-95 SB CLOSED	USE US 301 SOUTH	
CHANGEABLE MESSAGE SIGN		

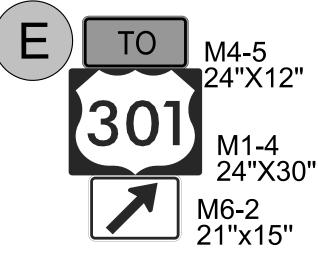


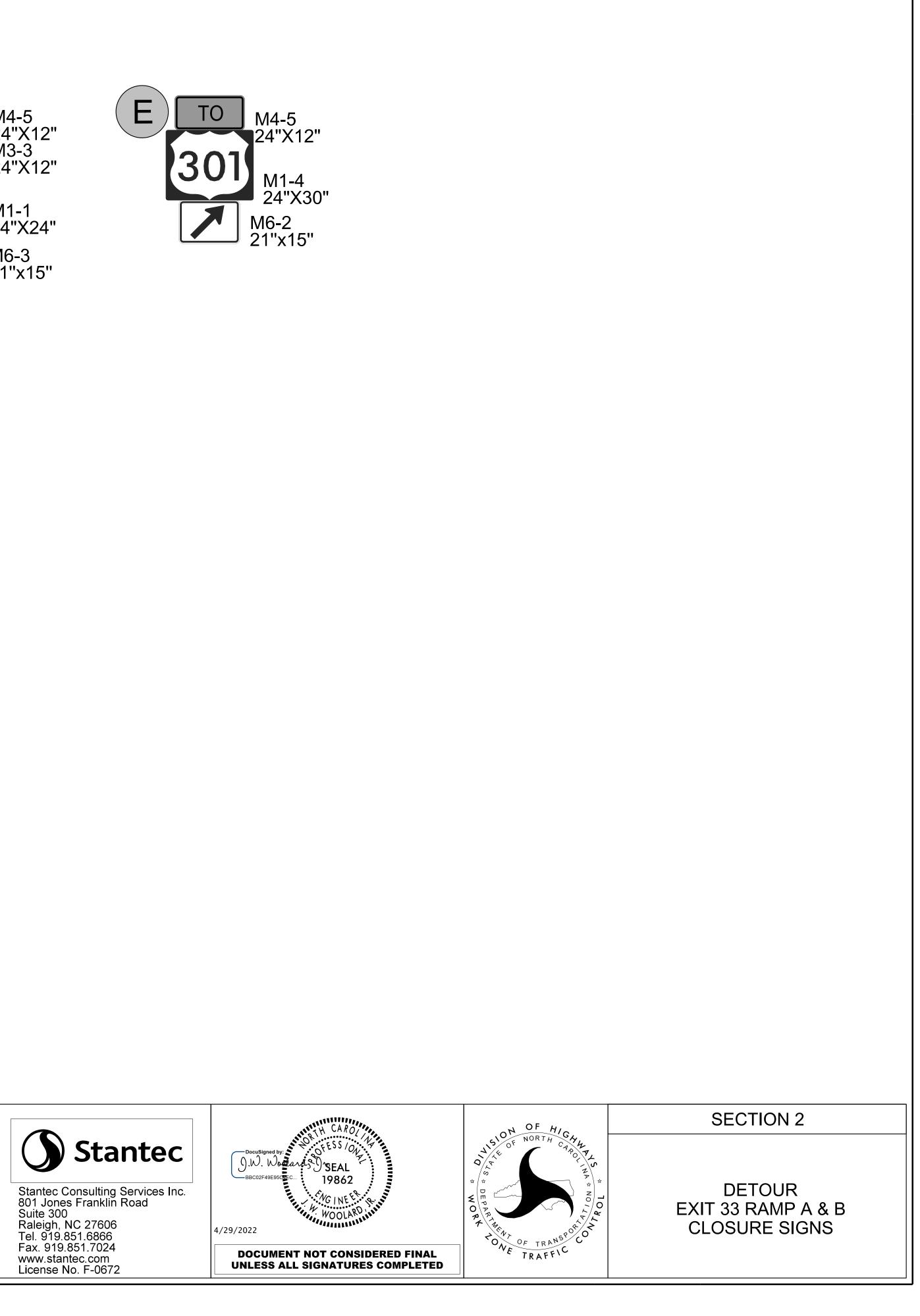








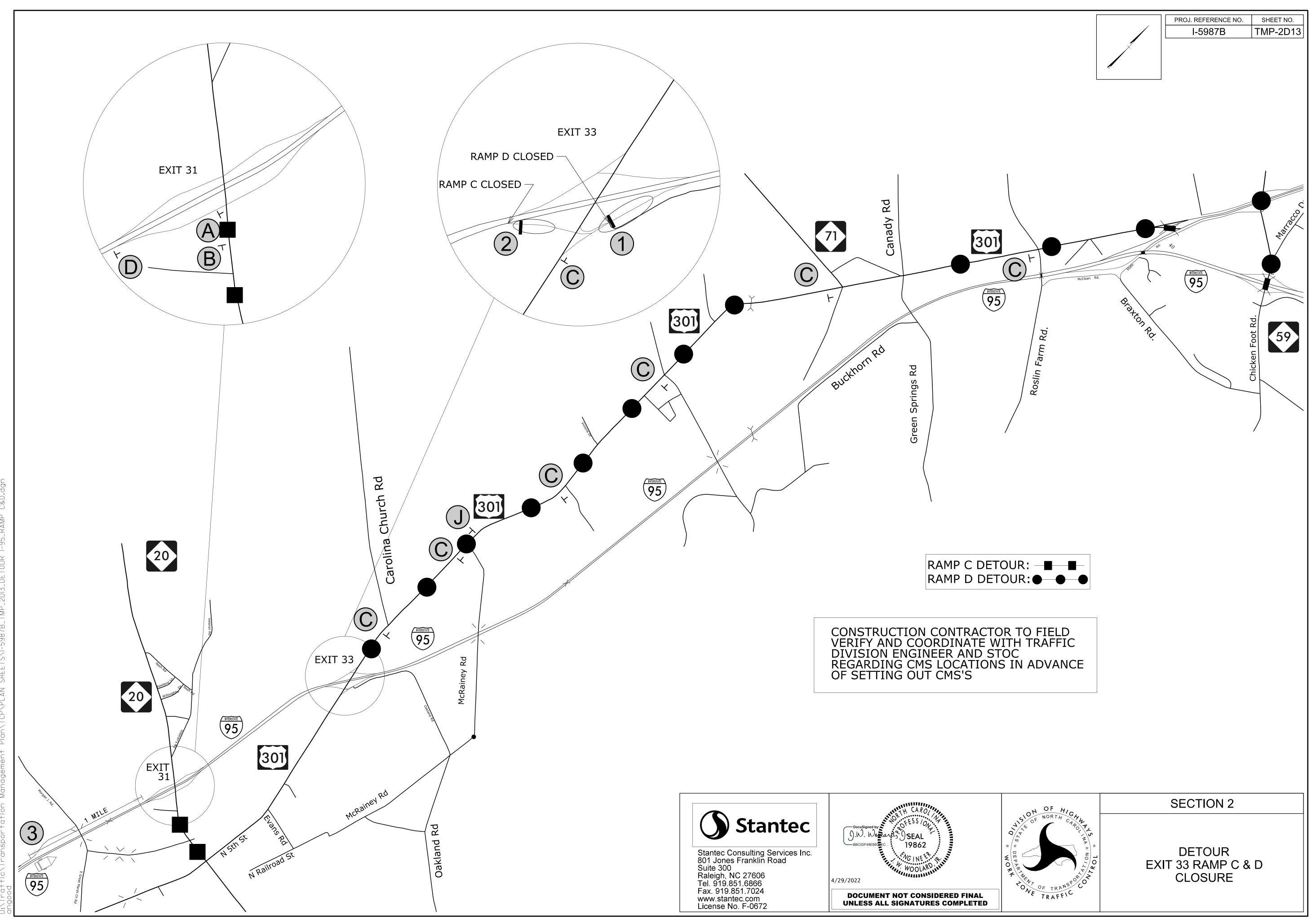




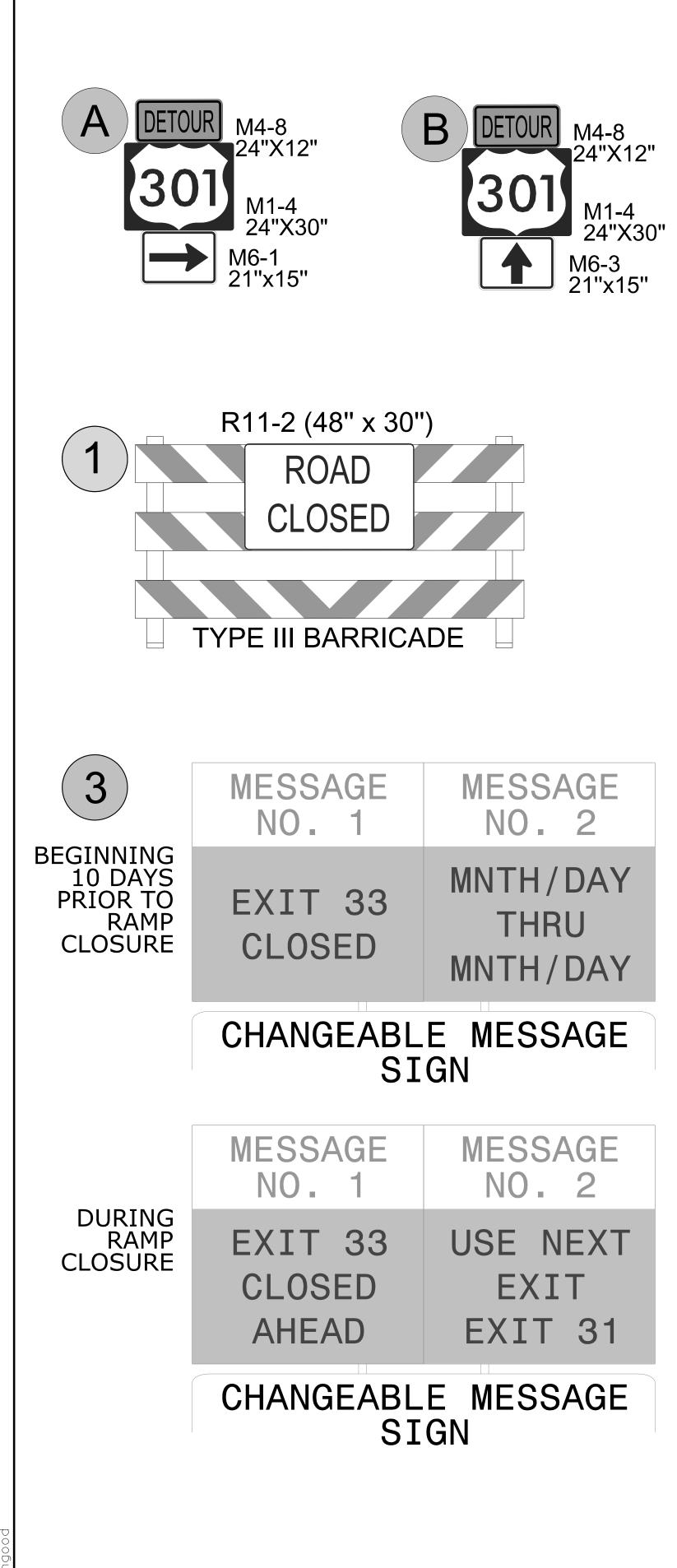
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I-5987B

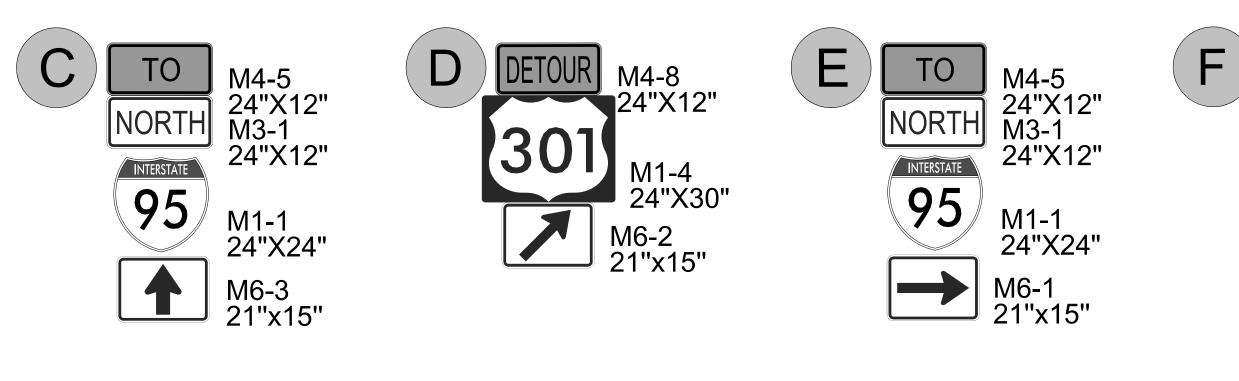
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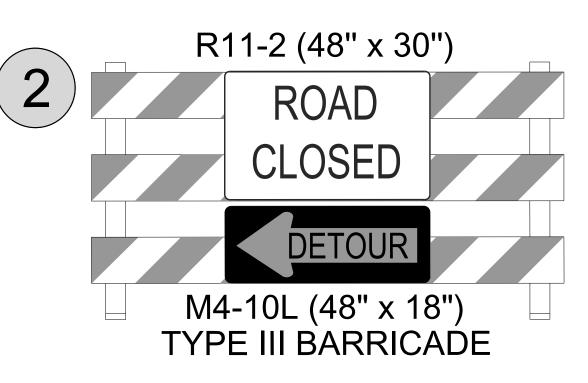






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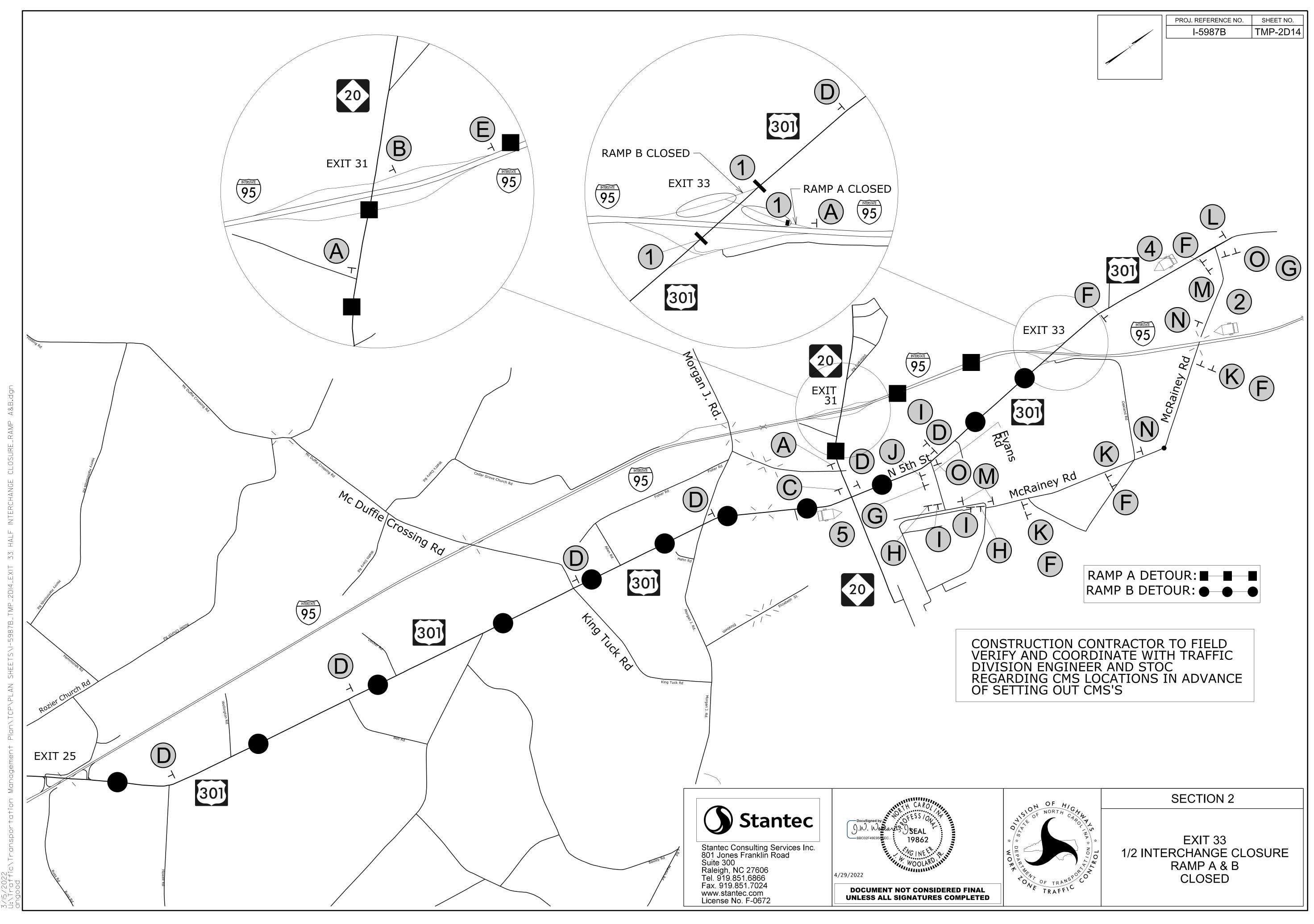


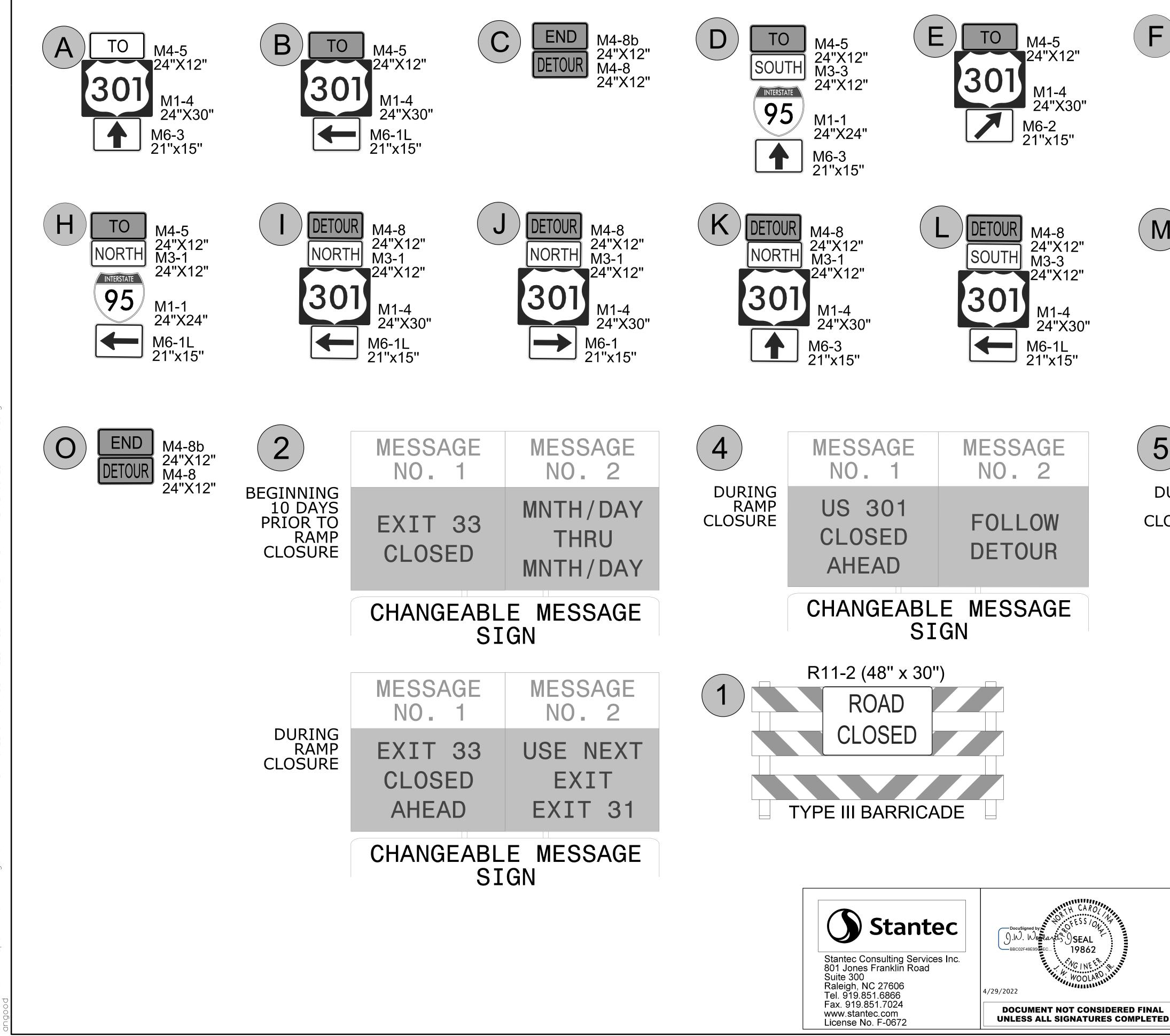


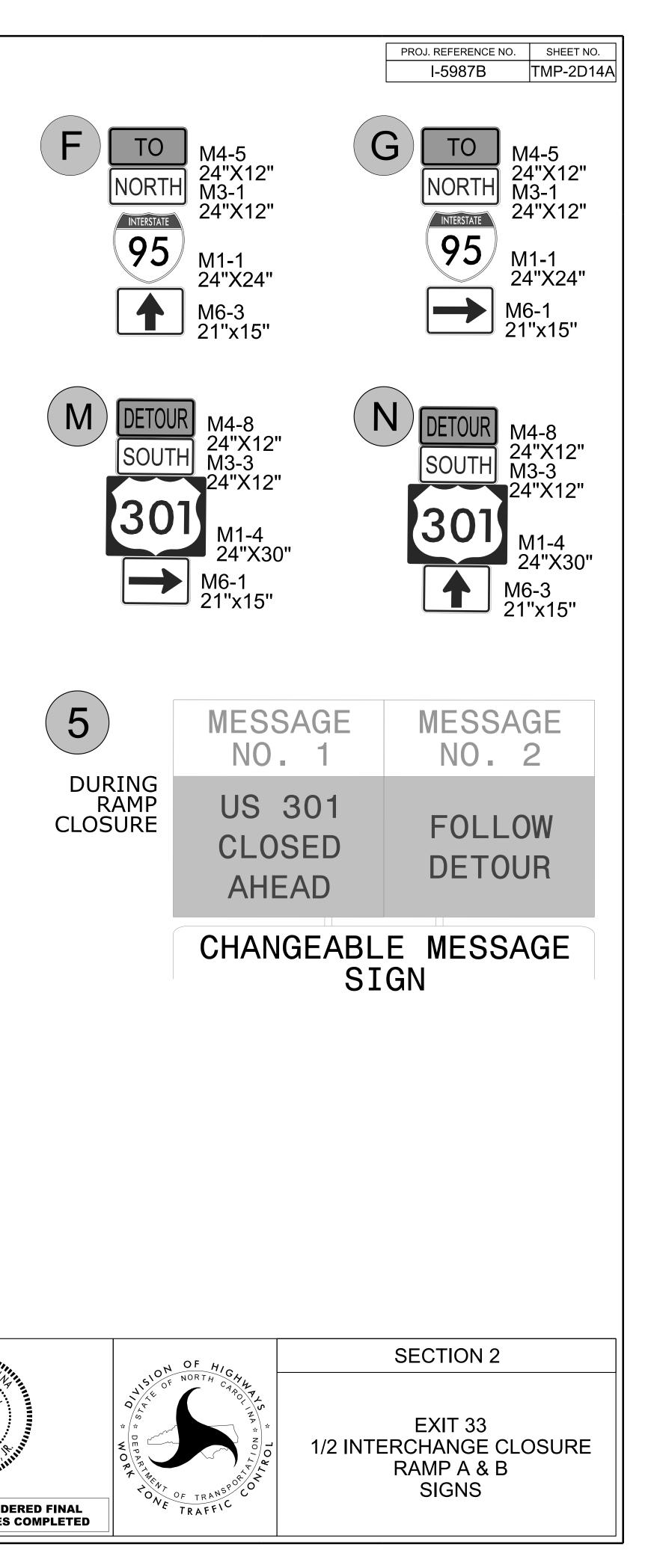


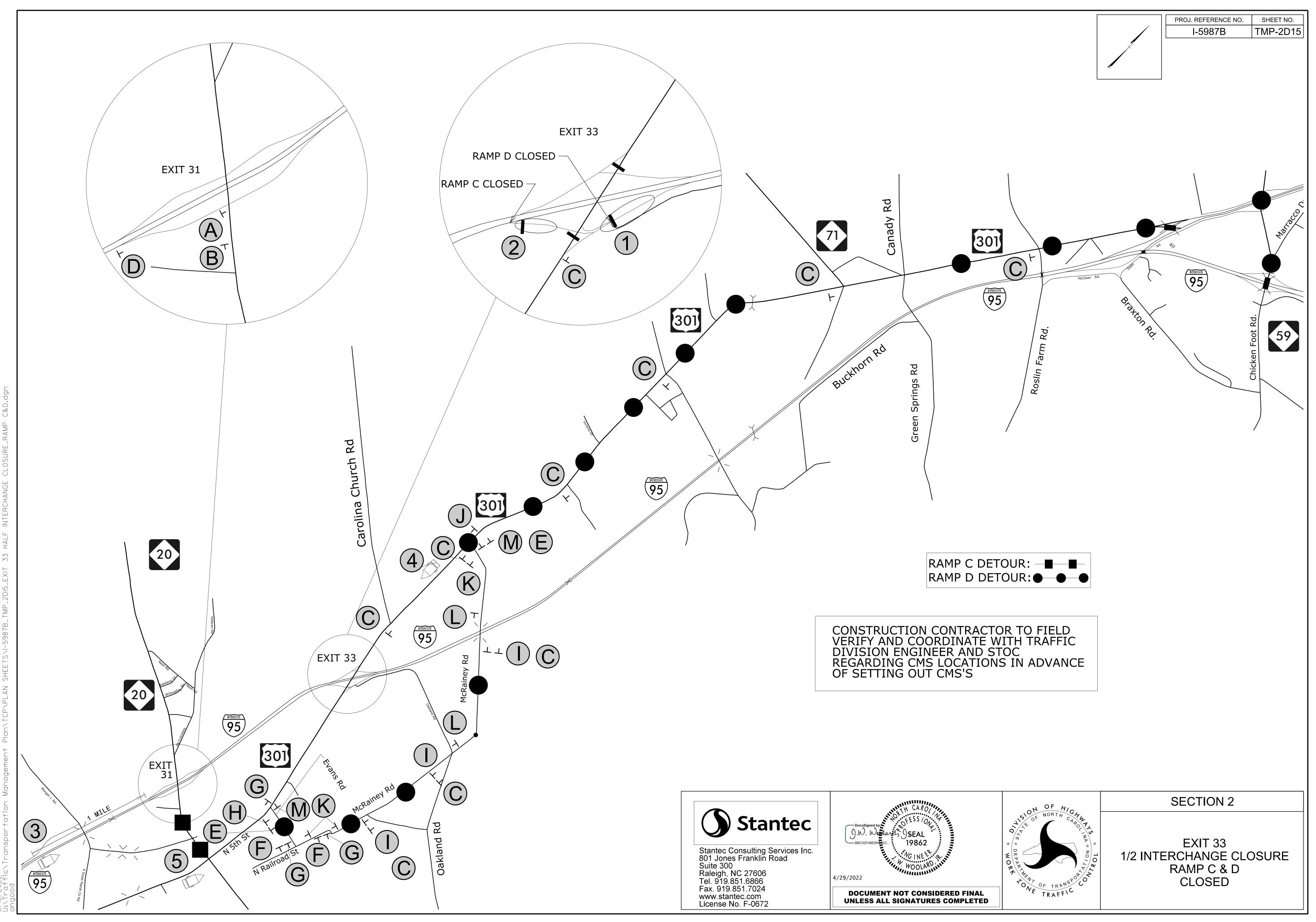
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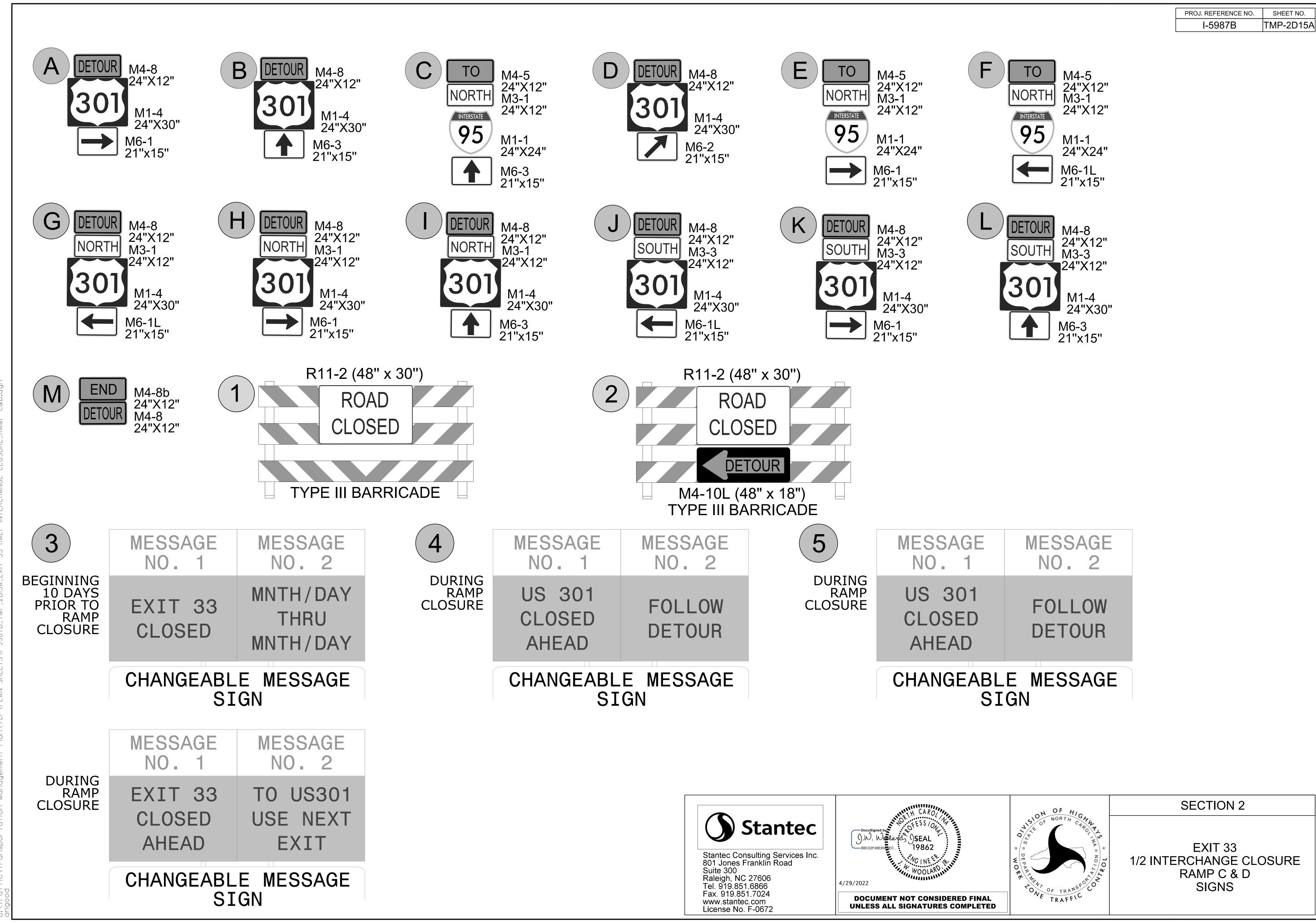






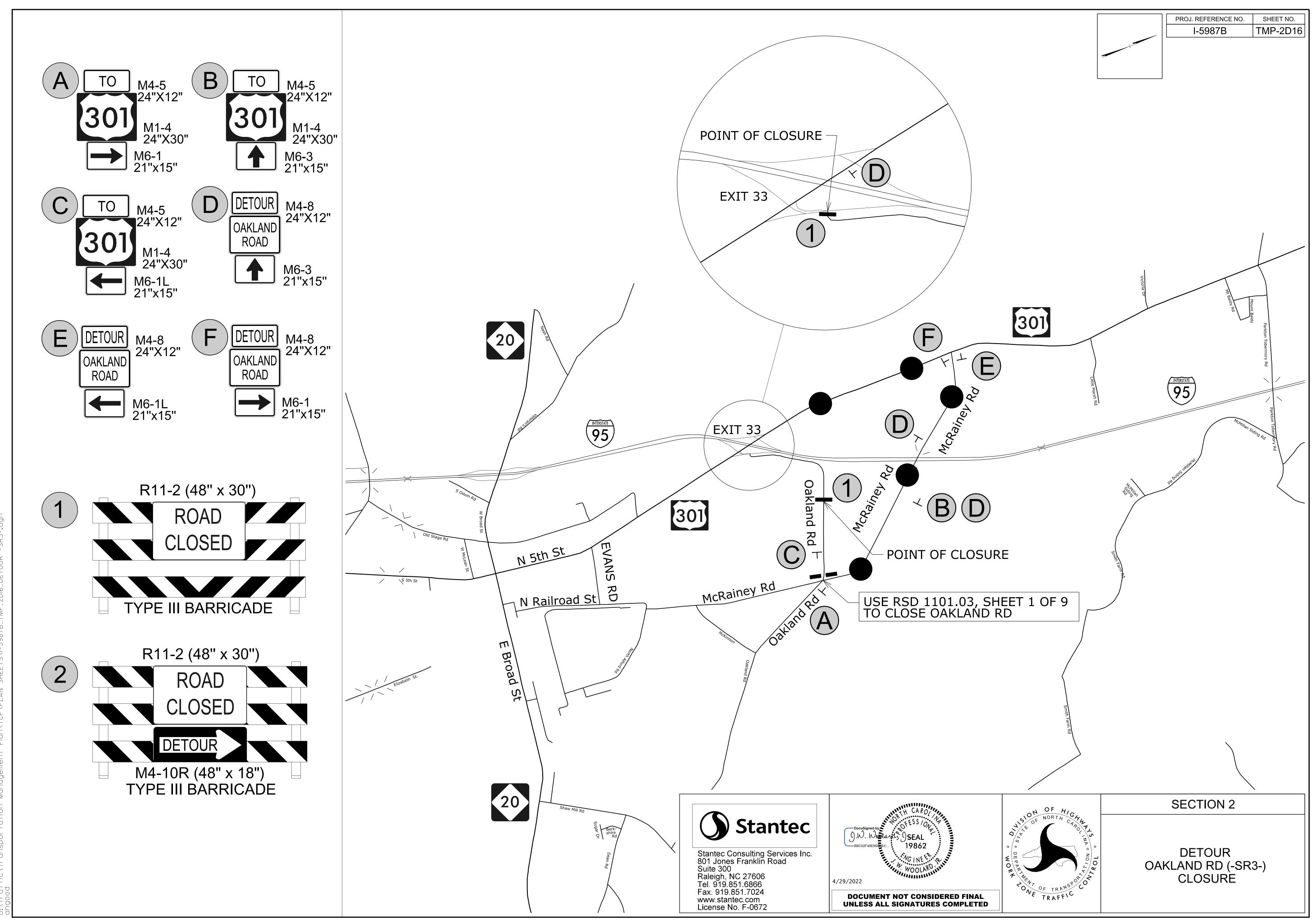




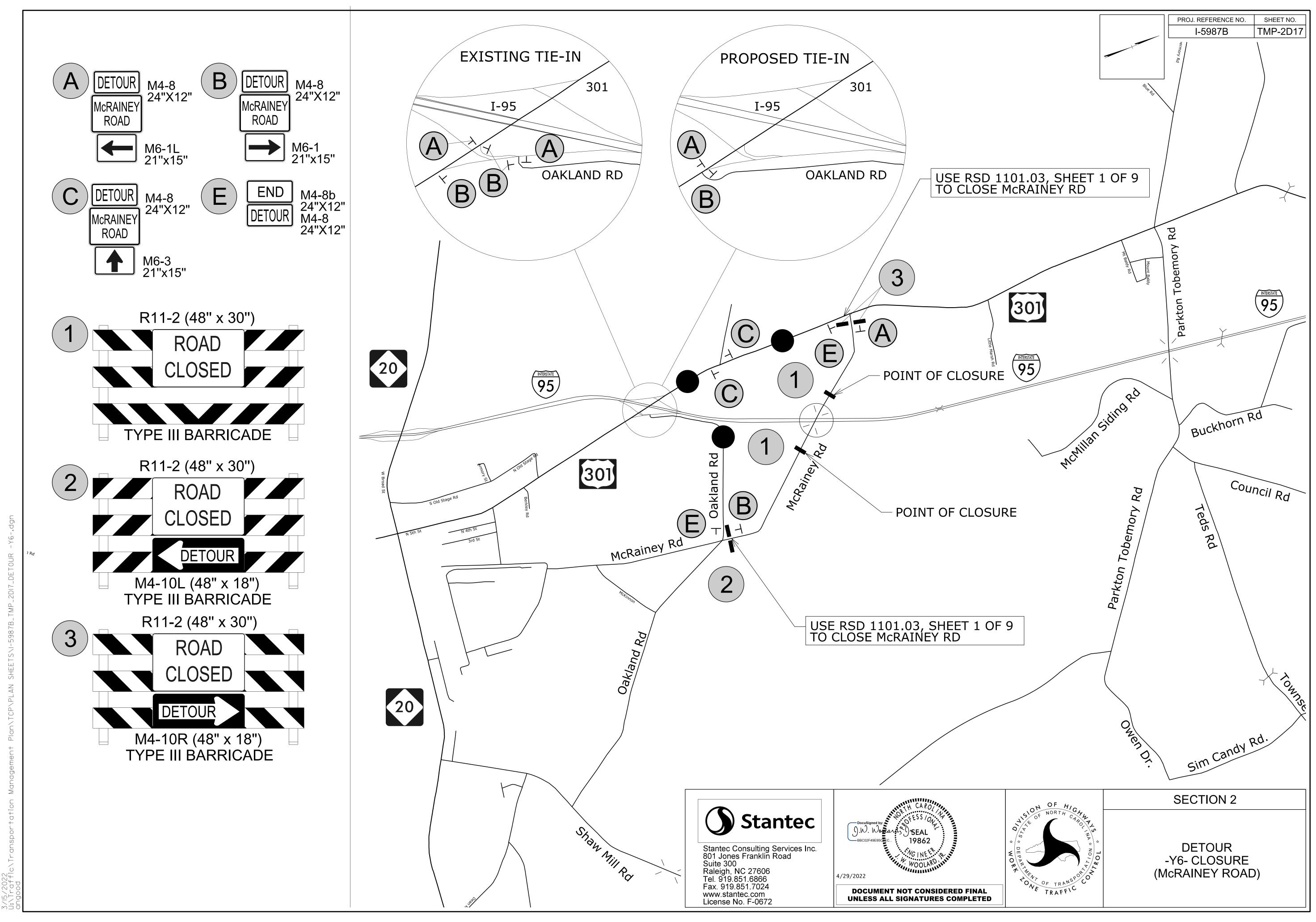


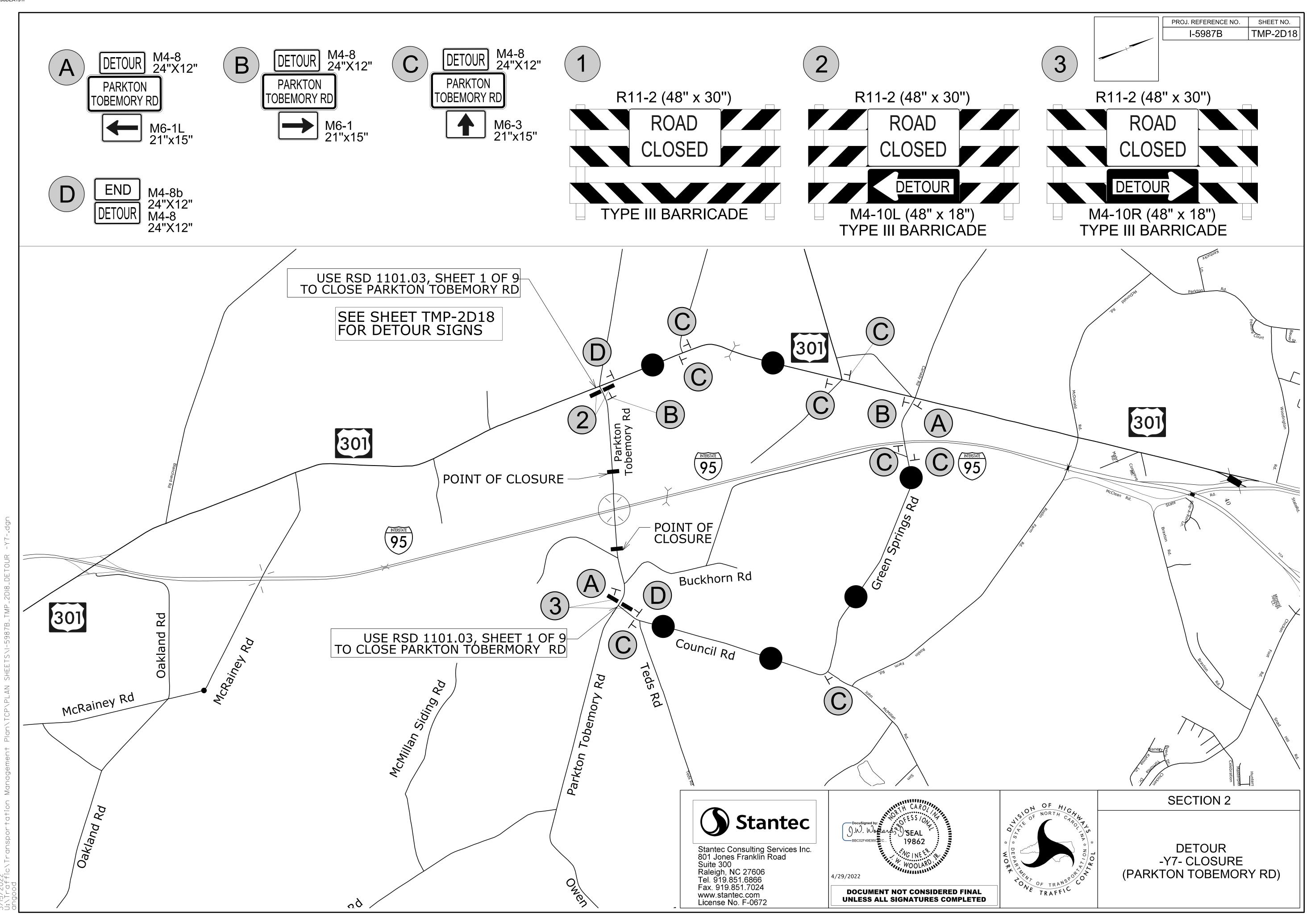
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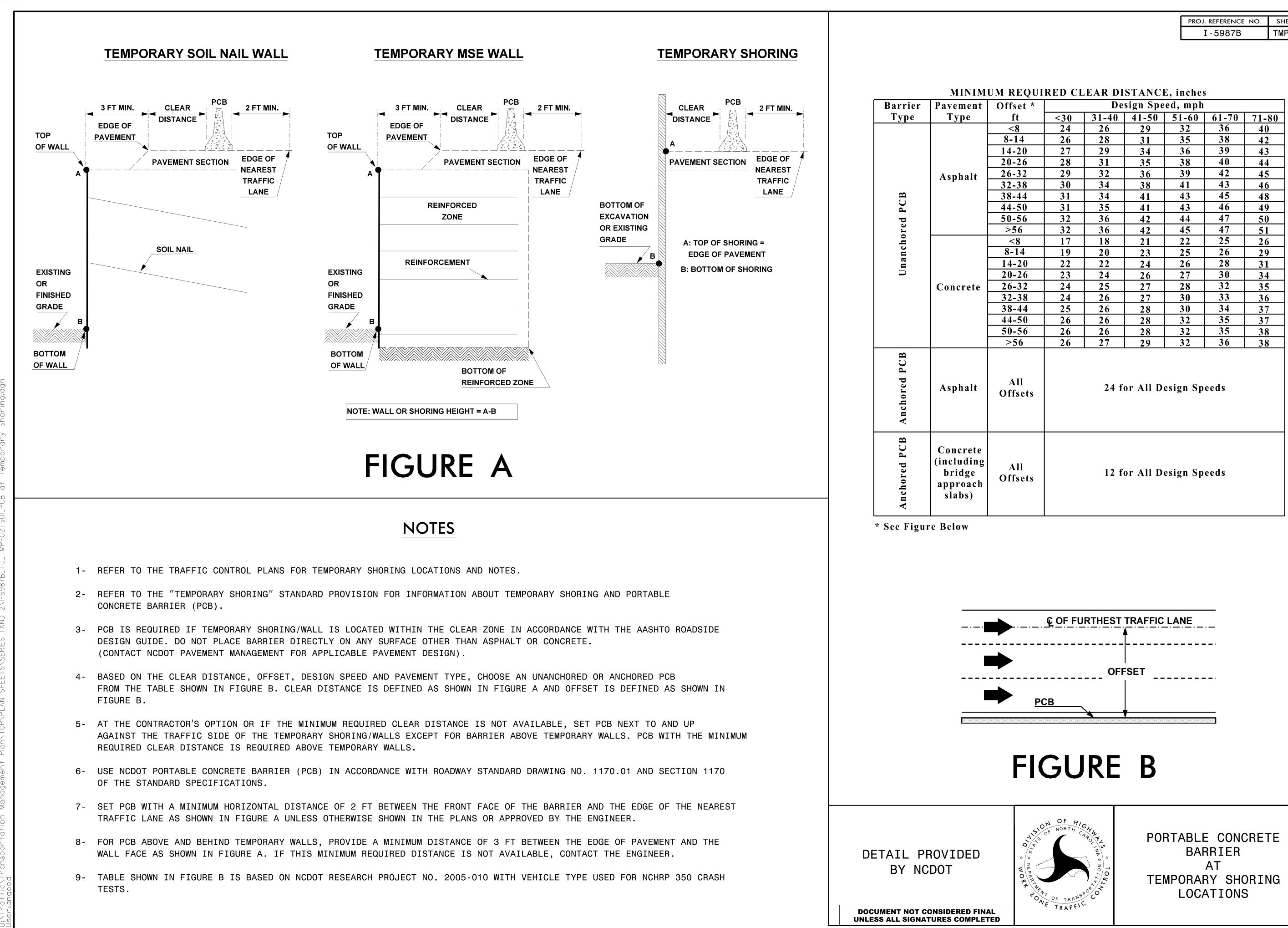


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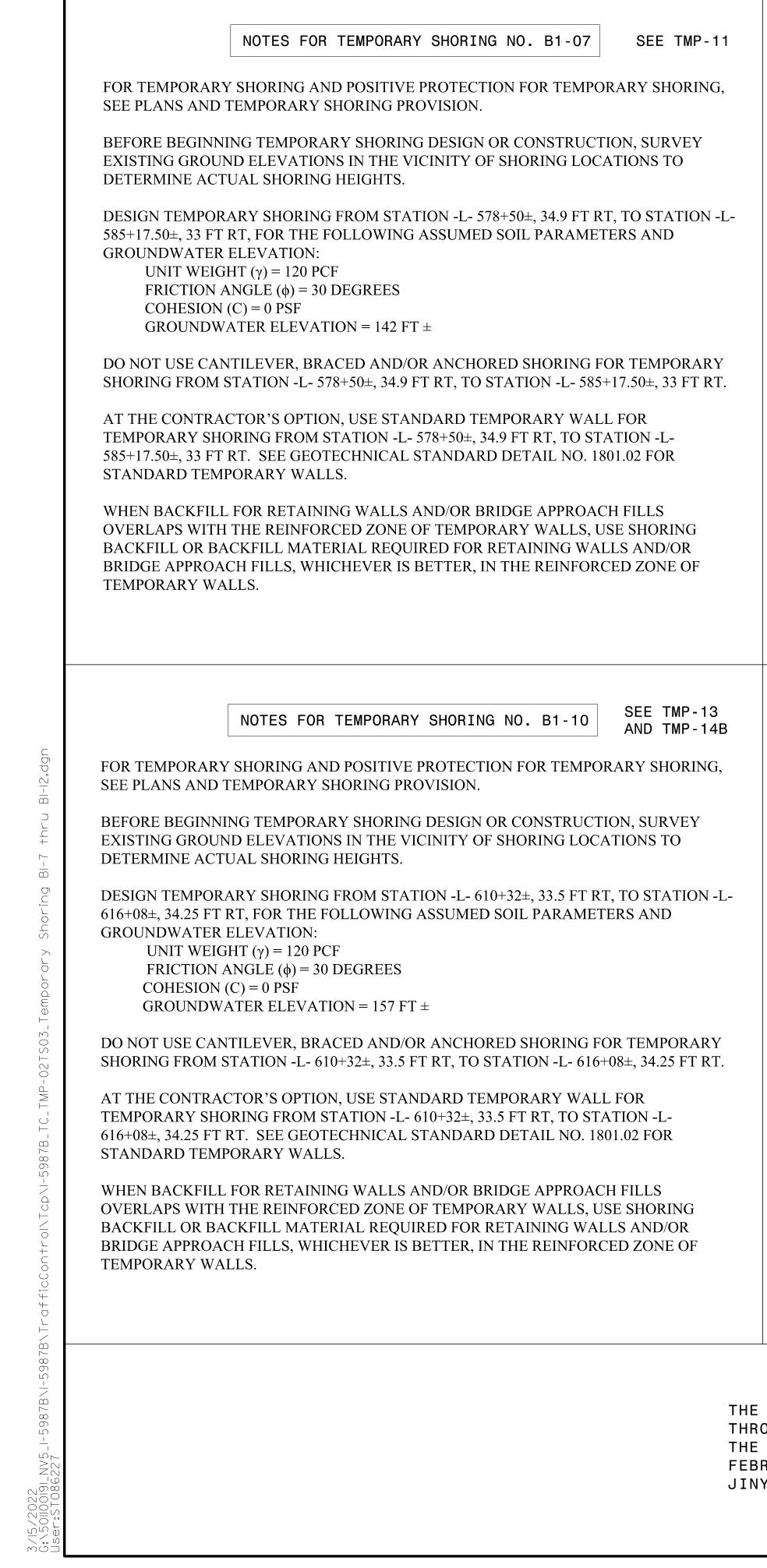


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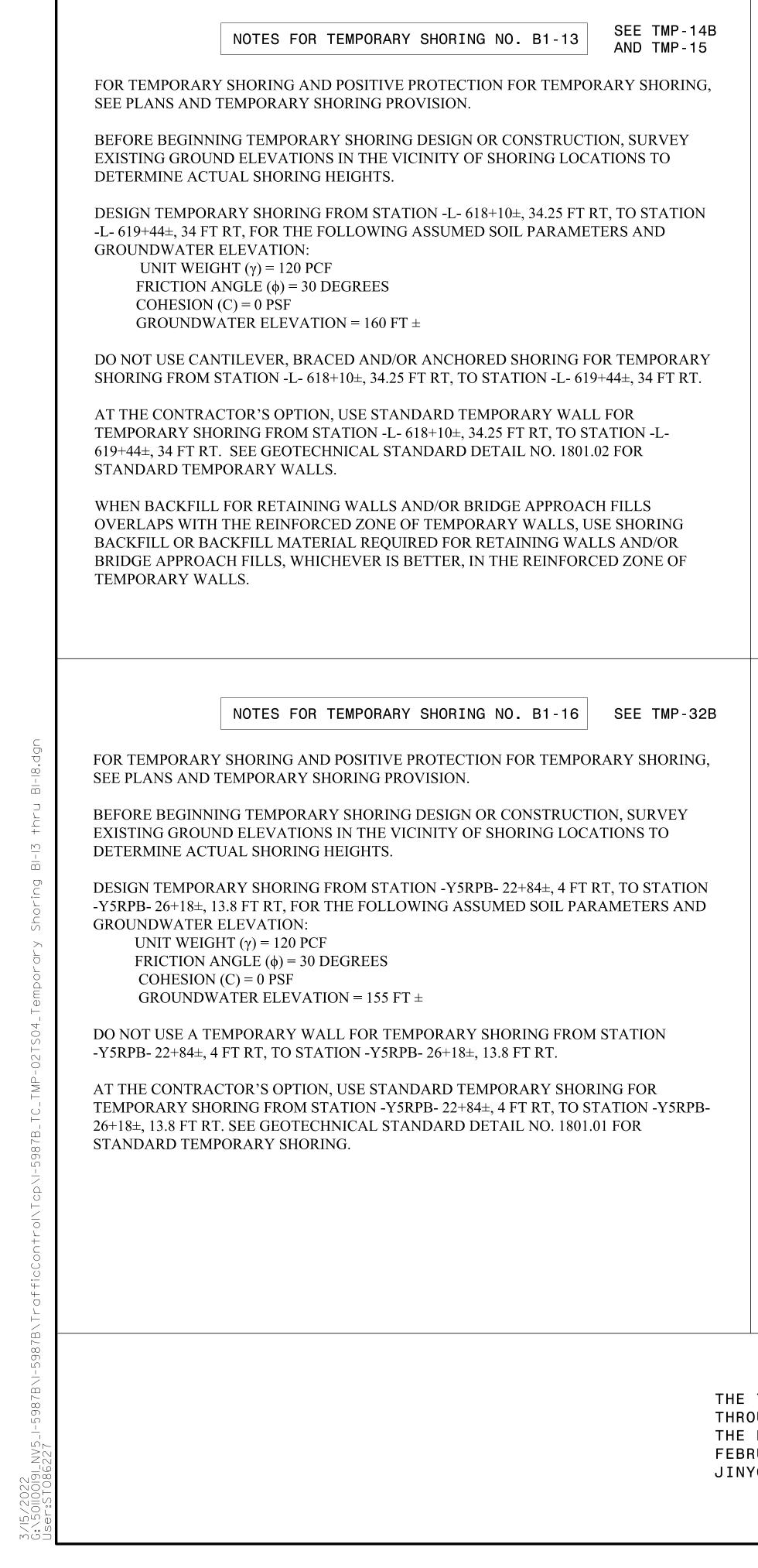
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	NOTES FOR TEMPORARY SHORING NO. B1-01 SEE TMP-10	NOTES FOR TEMPORARY SHORING NO. B1-02 SEE TMP-10	SEE TMP-10 NOTES FOR TEMPORARY SHORING NO. B1-03 PLANS PREPARED FOR THE NCDOT BY: MOTT MACDONALD 1& E, LLC 1101 HAYNES STREET, SUITE 101
	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.III HAYNES STREET, SUITE 101 RALEIGH, NC 27604NC LICENSE NO. F-0669
	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
	DESIGN TEMPORARY SHORING FROM STATION -L- 572+64±, 96.4 FT LT, TO STATION -L- 573+38±, 85 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 148 FT ±	DESIGN TEMPORARY SHORING FROM STATION -Y4- 23+31.50 \pm , 25.75 FT RT, TO STATION -Y4- 24+00 \pm , 25.75 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 148 FT \pm	DESIGN TEMPORARY SHORING FROM STATION -Y4- 23+31.50 \pm , 29.75 FT RT, TO STATION -Y4- 24+18 \pm , 29.75 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 148 FT \pm
	DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- $572+64\pm$, 96.4 FT LT, TO STATION -L- $573+38\pm$, 85 FT LT.	DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -Y4- 23+31.50±, 25.75 FT RT, TO STATION -Y4- 24+00±, 25.75 FT	DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y4- $23+31.50\pm$, 29.75 FT RT, TO STATION -Y4- $24+18\pm$, 29.75 FT RT.
	AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 572+64±, 96.4 FT LT, TO STATION -L- 573+38±, 85 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.	RT. AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y4- 23+31.50±, 25.75 FT RT, TO STATION -Y4- 24+00±, 25.75 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS. WHEN BACKFILL FOR RETAINING WALLS AND/OR BRIDGE APPROACH FILLS	IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -Y4- 23+31.50±, 29.75 FT RT, TO STATION -Y4- 24+18±, 29.75 FT RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.
		OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR RETAINING WALLS AND/OR BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.	
	NOTES FOR TEMPORARY SHORING NO. B1-04 SEE TMP-10	NOTES FOR TEMPORARY SHORING NO. B1-05 SEE TMP-10	NOTES FOR TEMPORARY SHORING NO. B1-06 SEE TMP-11
6.dgn	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
BI-Ithru BI-	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
ıry Shoring	DESIGN TEMPORARY SHORING FROM STATION -Y4- 25+24.50±, 29.75 FT RT, TO STATION -Y4- 26+09±, 29.75 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF	DESIGN TEMPORARY SHORING FROM STATION -Y4- 25+54±, 25.75 FT RT, TO STATION -Y4- 26+09±, 25.75 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF	DESIGN TEMPORARY SHORING FROM STATION -L- 585+04.50±, 30 FT RT, TO STATION - L- 585+61±, 30 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF
Temporc	FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 148 FT ±	FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 148 FT ±	FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 142 FT ±
02TS02_	DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y4- $25+24.50\pm$, 29.75 FT RT, TO STATION -Y4- $26+09\pm$, 29.75 FT RT.	DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -Y4- 25+54 \pm , 25.75 FT RT, TO STATION -Y4- 26+09 \pm , 25.75 FT RT	DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 585+04.50±, 30 FT RT, TO STATION -L- 585+61±, 30 FT RT.
-1-5987B_TC_TMP	IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -Y4- 25+24.50±, 29.75 FT RT, TO STATION -Y4- 26+09±, 29.75 FT RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.	RT. AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y4- 25+54±, 25.75 FT RT, TO STATION -Y4- 26+09±, 25.75 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.	AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 585+04.50±, 30 FT RT, TO STATION -L- 585+61±, 30 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.
TrafficControl/Tcp/		WHEN BACKFILL FOR RETAINING WALLS AND/OR BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR RETAINING WALLS AND/OR BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.	
-5987B\			APPROVED: Lovi D. Stouchko 6C933CB5742F461 ON OF H/GA
22 0191_NV5_1-5987BNI 086227	THR THE FEB	E TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED ROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. E DOCUMENT WAS SUBMITTED TO THE NCDOT DIVISION ENGINEER ON BRUAY 10, 2022 AND SEALED BY A PROFESSIONAL ENGINEER, IYOUNG PARK, LICENSE # 032171.	DATE: 4/29/2022 DATE:
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PROJ. REFERENCE NO. SHEET NO.
SEE TMD 11 I-5987B TMP-2TS3
SEE TMP-TT NOTES FOR TEMPORARY SHORING NO. B1-09 PLANS PREPARED FOR THE NCDOT BY: AND TMP-12 NOTES FOR TEMPORARY SHORING NO. B1-09 PLANS PREPARED FOR THE NCDOT BY:
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION. MOTT MACDONALD 1& E, LLC 1101 HAYNES STREET, SUITE 101 RALEIGH, NC 27604 NC LICENSE NO. F-0669
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
DESIGN TEMPORARY SHORING FROM STATION -L- 586+98±, 33 FT RT, TO STATION -L- 594+50±, 33 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 142 FT ±
DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 586+98±, 33 FT RT, TO STATION -L- 594+50±, 33 FT RT.
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 586+98±, 33 FT RT, TO STATION -L- 594+50±, 33 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.
WHEN BACKFILL FOR RETAINING WALLS AND/OR BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR RETAINING WALLS AND/OR BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.
NOTES FOR TEMPORARY SHORING NO. B1-12 SEE TMP-14B
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
DESIGN TEMPORARY SHORING FROM STATION -L- 617+35.50 \pm , 31.25 FT RT, TO STATION -L- 618+79 \pm , 31.1 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 160 FT \pm
DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 617+35.50±, 31.25 FT RT, TO STATION -L- 618+79±, 31.1 FT RT.
IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -L- 617+35.50±, 31.25 FT RT, TO STATION -L- 618+79±, 31.1 FT RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.
ADDROVED. Lovi D. Stouchko
APPROVED: Lori D. Stouchko 4/29/2022 DATE: Stouchko SECTION 1 Stouchko SECTION 1
DATE: DA

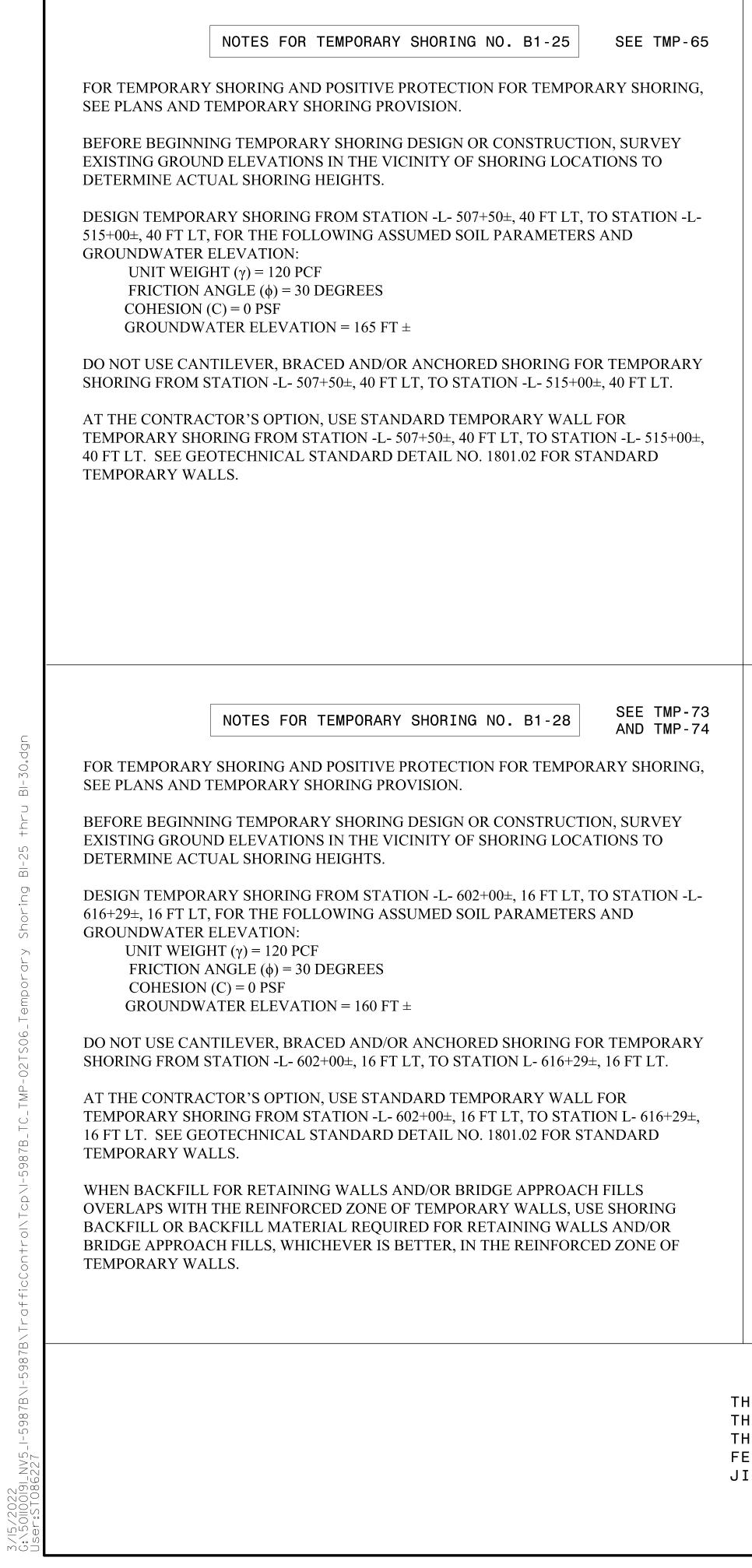
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NOTES FOR TEMPORARY SHORING NO. B1-14SEE TMP-32BCOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.BEFORE BEGINNING TEMPORARY SHORING PROVISIONBEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.DESIGN TEMPORARY SHORING FROM STATION -Y5- 41+22.50±, 5.3 FT RT, TO STATION -Y5- 41+80.20±, 5.3 FT RT, FOR THE FOLLOWING ASSUMED SOLL PARAMETERS AND GROUNDWATER ELEVATION:UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 155 FT ±DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y5- 41+22.50±, 5.3 FT RT, TO STATION -Y5- 41+80.20±, 5.3 FT RT, TO STATION -Y5- 41+80.20±, 5.3 FT RT, SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.	SEE TMP-32BNOTES FOR TEMPORARY SHORING NO. B1-15FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARYFOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARYSHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.DEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.DESIGN TEMPORARY SHORING FROM STATION -Y5- 41+22.50±, 5.3 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 0 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION - 155 FT ±DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y5- 41+22.50±, 5.3 FT LT, TO STATION -Y5- 41+20.20±, 5.3 FT LT, SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.
NOTES FOR TEMPORARY SHORING NO. B1-17SEE TMP-40 AND TMP-41FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.BEFORE BEGINNING TEMPORARY SHORING PROVISION.BEFORE BEGINNING TEMPORARY SHORING PROVISION.BEFORE BEGINNING TEMPORARY SHORING PROVISION.BEFORE BEGINNING TEMPORARY SHORING PROVISION.DESIGN TEMPORARY SHORING FROM STATION -L- 552+00±, 36 FT LT, TO STATION -L- 559+00±, 36 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICITON ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 160 FT ±DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 552+00±, 36 FT LT, TO STATION -L- 559+00±, 36 FT LT.AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 552+00±, 36 FT LT, TO STATION -L- 559+00±, 36 FT LT, SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.	NOTES FOR TEMPORARY SHORING NO., B1-18 SEE TMP-44 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, STE PLANS AND TEMPORARY SHORING PROVISION. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS. DESIGN TEMPORARY SHORING FROM STATION -L- 600+00+, 31 FT RT, TO STATION -L- 601+00+, 31 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER LEEVATION: UNIT WEIGHT (9) = 120 PCF FRICTION ANGLE (6) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 151 FT + DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 600+00+, 31 FT RT, TO STATION -L- 601+00+, 33 FT RT. AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR FEMPORARY SHORING ROM STATION -L- 600+00+, 31 FT RT, TO STATION -L- 601+00+, 33 FT RT. AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING ROM STATION -L- 600+00+, 31 FT RT, TO STATION -L- 601+00+, 33 FT RT.
TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED DUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. DOCUMENT WAS SUBMITTED TO THE NCDOT DIVISION ENGINEER ON RUAY 10, 2022 AND SEALED BY A PROFESSIONAL ENGINEER, YOUNG PARK, LICENSE # 032171.	APPROVED: Locids up to the CARO And Action of

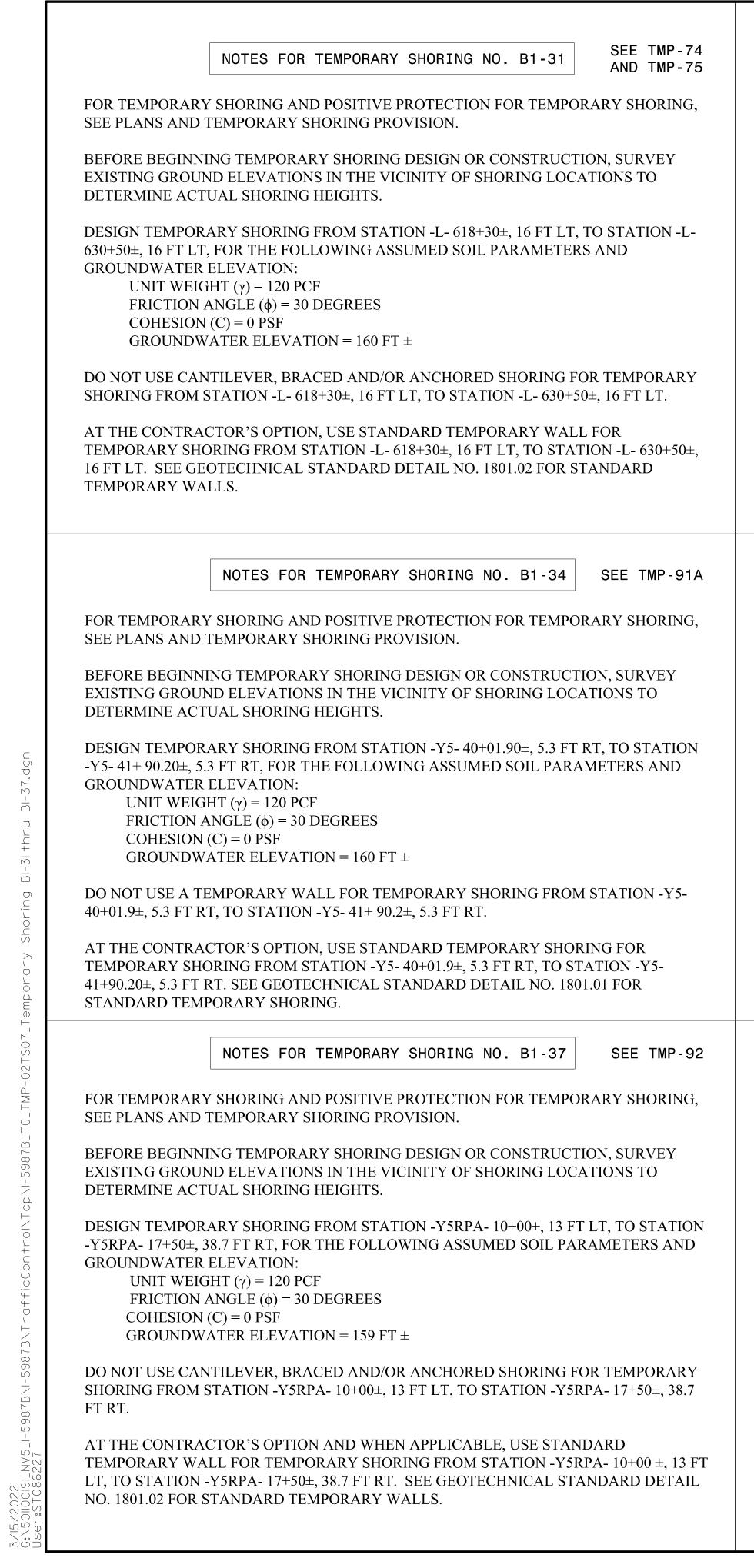
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NOTES FOR TEMPORARY SHORING NO. B1-19 SEE TMP-45 AND TMP-46	NOTES FOR TEMPORARY SHORING NO. B1-20 SEE TMP-45 AND TMP-46	SEE TMP-46 AND TMP-47 NOTES FOR TEMPORARY SHORING NO. B1-21 I-5987B TMP-2TS5 PLANS PREPARED FOR THE NODOT BY:
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
DESIGN TEMPORARY SHORING FROM STATION -Y5RPB- 10+99±, 1.25 FT RT, TO STATION -Y5RPB- 21+09±, 11 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 155 FT ±	DESIGN TEMPORARY SHORING FROM STATION -Y5RPC- 16+19±, 11 FT LT, TO STATION -Y5RPC- 23+23±, 0 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 160 FT ±	DESIGN TEMPORARY SHORING FROM STATION -Y5RPD- 10+00±, 15 FT RT, TO STATION -Y5RPD- 24+35±, 11 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 158 FT ±
DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -Y5RPB- 10+99±, 1.25 FT RT, TO STATION -Y5RPB- 21+09±, 11 FT RT.	DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -Y5RPC- 16+19±, 11 FT LT, TO STATION -Y5RPC- 23+23±, 0 FT LT.	DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -Y5RPD- 10+00±, 15 FT RT, TO STATION -Y5RPD- 24+35±, 11 FT RT.
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y5RPB- 10+99±, 1.25 FT RT, TO STATION - Y5RPB- 21+09±, 11 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.	AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y5RPC- 16+19±, 11 FT LT, TO STATION -Y5RPC- 23+23±, 0 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.	AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y5RPD- 10+00±, 15 FT RT, TO STATION -Y5RPD- 24+35±, 11 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.
NOTES FOR TEMPORARY SHORING NO. B1-22 SEE TMP-47	NOTES FOR TEMPORARY SHORING NO. B1-23 SEE TMP-58	NOTES FOR TEMPORARY SHORING NO. B1-24 SEE TMP-56 AND TMP-57
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
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DESIGN TEMPORARY SHORING FROM STATION -L- $632+01\pm$, 46 FT RT, TO STATION -L- $633+00\pm$, 46 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 158 FT ±	DESIGN TEMPORARY SHORING FROM STATION -L- $601+00\pm$, 33 FT RT, TO STATION -L- $610+32\pm$, 33.5 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 160 FT ±	DESIGN TEMPORARY SHORING FROM STATION -L- 619+44±, 34 FT RT, TO STATION -L- 632+80±, 28 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 158 FT ±
DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 632+01±, 46 FT RT, TO STATION -L- 633+00±, 46 FT RT.	DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 601+00±, 33 FT RT, TO STATION -L- 610+32±, 33.5 FT RT.	DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 619+44±, 34 FT RT, TO STATION L- 632+80±, 28 FT RT.
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 632+01±, 46 FT RT, TO STATION -L- 633+00±, 46 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.	AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 601+00±, 33 FT RT, TO STATION -L- 610+32±, 33.5 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.	AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 619+44±, 34 FT RT, TO STATION L- 632+80±, 28 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.
		APPROVED: Low D. Stouchko $4/29/2022$ $4/29/2022$ $5^{ON} OF H_{IG}$ $CAPPROVED: SECTION 1$
The second secon	THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO THE NCDOT DIVISION ENGINEER ON TEBRUAY 10, 2022 AND SEALED BY A PROFESSIONAL ENGINEER, INYOUNG PARK, LICENSE # 032171.	DATE: DATE: SEAL 034437 CARO, TH CARO, TH CA
		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



ROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. E DOCUMENT WAS SUBMITTED TO THE NCDOT DIVISION ENGINEER ON BRUAY 10, 2022 AND SEALED BY A PROFESSIONAL ENGINEER, TEMPORARY SHORING NOTES SEAL SECTION 1		
International sector of the	NOTES FOR TEMPORARY SHORING NO. B1-26 SEE TMP-65	SEE TWD 60 NOTES FOR TEMPORARY SHORING NO. B1.07
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DEMONDARY SHORING HOUSE STATUS - 4: - WHENG - 4: PERCEDUSTRIAL UNI VIEWS THE CONTROL - CONT		
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E TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED ROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. E DOCUMENT WAS SUBMITTED TO THE NCDOT DIVISION ENGINEER ON BRUAY 10, 2022 AND SEALED BY A PROFESSIONAL ENGINEER, NYOUNG PARK, LICENSE # 032171. CONTRACTOR OF HIGH	SHORING FROM STATION -L- 615+75±, 21 FT LT, TO STATION -L- 617+73±, 21 FT LT. FOR	SHORING FROM STATION -L- 617+74.50±, 21 FT LT, TO STATION -L- 618+87±, 21 FT LT.
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UNLESS ALL SIGNATURES COMPLETED	IE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED IROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. IE DOCUMENT WAS SUBMITTED TO THE NCDOT DIVISION ENGINEER ON BRUAY 10, 2022 AND SEALED BY A PROFESSIONAL ENGINEER, NYOUNG PARK, LICENSE # 032171.	DATE: DATE: DATE: DATE: DECUMENT NOT CONSIDERED FINAL DATE: DECUMENT NOT CONSIDERED FINAL DECUMENT NOT CONSIDERED FINAL

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		PROJ. REFERENCE NO. SHEET NO. I-5987B TMP-2TS7			
NOTES FOR TEMPORARY SHORING NO. B1-32 SEE TMP-74A	SEE TMP-74A NOTES FOR TEMPORARY SHORING NO. B1-33	PLANS PREPARED FOR THE NCDOT BY:			
		MOTT MACDONALD & E, LLC			
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	MOTT MACDONALD 1101 HAYNES STREET, SUITÉ 101 RALEIGH, NC 27604 NC LICENSE NO. F-0669			
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY					
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DESIGN TEMPORARY SHORING FROM STATION -Y5- 40+90.20±, 5.3 FT RT, TO STATION	DETERMINE ACTUAL SHOKING HEIGHTS.				
-Y5- 41+22.50±, 5.3 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND	DESIGN TEMPORARY SHORING FROM STATION -Y5- 40+90.20±, 5.3 FT L [*]	·			
GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF	$-Y_{5}-41+22.50\pm$, 5.3 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAM GROUNDWATER ELEVATION:	-Y5- 41+22.50±, 5.3 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:			
FRICTION ANGLE (ϕ) = 30 DEGREES	UNIT WEIGHT (γ) = 120 PCF				
COHESION (C) = 0 PSF GROUNDWATER ELEVATION = $160 \text{ FT} \pm$	FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF	FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSE			
	GROUNDWATER ELEVATION = $160 \text{ FT} \pm$				
DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y5-40+90.20±, 5.3 FT RT, TO STATION -Y5- 41+22.50±, 5.3 FT RT.	DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM S 40+90.20±, 5.3 FT LT, TO STATION -Y5- 41+22.50±, 5.3 FT LT.	STATION -Y5-			
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR	$40+90.20\pm$, $5.5+1+21$, $10+51A11010+15-41+22.50\pm$, $5.5+1+21$.				
TEMPORARY SHORING FROM STATION -Y5- 40+90.20±, 5.3 FT RT, TO STATION -Y5- 41+22.50±, 5.3 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.	AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -Y5- 40+90.20±, 5.3 FT LT, TO STATION -Y5- 41+22.50±, 5.3 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.				
NOTES FOR TEMPORARY SHORING NO. B1-35 SEE TMP-91A	NOTES FOR TEMPORARY SHORING NO. B1-36	SEE TMP-91 AND TMP-91A			
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORA SEE PLANS AND TEMPORARY SHORING PROVISION.	ARY SHORING,			
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EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO	EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCAT				
DETERMINE ACTUAL SHORING HEIGHTS.	DETERMINE ACTUAL SHORING HEIGHTS.				
DESIGN TEMPORARY SHORING FROM STATION -Y5- 40+01.90±, 5.3 FT LT, TO STATION -Y5- 41+ 90.20±, 5.3 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: DESIGN TEMPORARY SHORING FROM STATION -Y5RPA- 22+06±, 22 FT RT, TO STATION -Y5RPA- 23+68±, 11.8 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:					
UNIT WEIGHT $(\gamma) = 120 \text{ PCF}$ FRICTION ANGLE $(\phi) = 30 \text{ DEGREES}$ UNIT WEIGHT $(\gamma) = 120 \text{ PCF}$ FRICTION ANGLE $(\phi) = 30 \text{ DEGREES}$					
COHESION (C) = 0 PSF	COHESION (C) = 0 PSF				
GROUNDWATER ELEVATION = $160 \text{ FT} \pm$	GROUNDWATER ELEVATION = 159 FT \pm				
DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y5-40+01.90 \pm , 5.3 FT LT, TO STATION -Y5- 41+ 90.20 \pm , 5.3 FT LT.	DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM S -Y5RPA- 22+06±, 22 FT RT, TO STATION -Y5RPA- 23+68±, 11.8 FT RT.	STATION			
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -Y5- 40+01.90±, 5.3 FT LT, TO STATION -Y5- 41+	AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORIN TEMPORARY SHORING FROM STATION -Y5RPA- 22+06±, 22 FT RT, TO ST	TATION -Y5RPA-			
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THE TEMPORARY SHORIN	G NOTES SHOWN ON THIS SHEET WERE PROVIDED				
	UMENT FROM THE GEOTECHNICAL ENGINEERING UNIT.				
	MITTED TO THE NCDOT DIVISION ENGINEER ON SEALED BY A PROFESSIONAL ENGINEER,				
JINYOUNG PÁRK, LICEN					
Docusigned by:					
	APPROVED: $1 \text{ ori } \mathcal{D}$. Stonchko 4/29/2022 $4/29/2022$ $4/29/2022$	SECTION 1			
	4/29/2022 DATE:				
		DRARY SHORING NOTES			
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			SHEET NO.
SEE TMP-74A NOTES FOR TEMPORARY SHORING NO. B1-33	I-5987 Plans prepar		TMP-2TS7 THE NCDOT BY:
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	M MOTT MACDONALD	1101 HAYNES RALEIGH, NC	ONALD I& E, LLC STREET, SUITE 101 27604 ISE NO. F-0669
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIO DETERMINE ACTUAL SHORING HEIGHTS.			
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FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORAR SEE PLANS AND TEMPORARY SHORING PROVISION.	Y SHORING,		
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIO DETERMINE ACTUAL SHORING HEIGHTS.			
DESIGN TEMPORARY SHORING FROM STATION -Y5RPA- 22+06±, 22 FT RT -Y5RPA- 23+68±, 11.8 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAM GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 159 FT ±			
DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM ST. -Y5RPA- 22+06±, 22 FT RT, TO STATION -Y5RPA- 23+68±, 11.8 FT RT.	ATION		
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -Y5RPA- 22+06±, 22 FT RT, TO STATION -Y5RPA- 23+68±, 11.8 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.			
G NOTES SHOWN ON THIS SHEET WERE PROVIDED UMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. MITTED TO THE NCDOT DIVISION ENGINEER ON SEALED BY A PROFESSIONAL ENGINEER, SE # 032171.			
APPROVED: Lori D. Stouchko	SECTIO	N 1	
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\$	ARY SHOF SECTIO CATIONS THRU B1	N 1 B1-3	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

SEE SHEETS TMP-146, 147 TEMPORARY SHORING LOCATION NO. [B2-01] ESTIMATED QUANTITY = 3510-L- STA. 797+00±, 33.0′ RT TO -L- STA. 802+40±, 33.0′ RT LENGTH = 540' AVERAGE HEIGHT = 6.5 FT MAXIMUM HEIGHT = 7.8 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHO SEE PLANS AND TEMPORARY SHORING PROVISION. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURV EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS DETERMINE ACTUAL SHORING HEIGHTS. DESIGN TEMPORARY SHORING FROM STATION -L- 797+00±, 33 FT RT, TO STATION -L- 802+40±, 33 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT $(\gamma) = 120$ PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSFGROUNDWATER ELEVATION = $144 \text{ FT} \pm$ DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPO SHORING FROM STATION -L- 797+00±, 33 FT RT, TO STATION -L- 802+ 33 FT RT. AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMI SHORING FROM STATION -L- 797+00±, 33 FT RT, TO STATION -L- 802+ 33 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STAN **TEMPORARY WALLS.** WHEN BACKFILL FOR RETAINING WALLS AND/OR BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORI BACKFILL OR BACKFILL MATERIAL REQUIRED FOR RETAINING WALLS AND, BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED Z TEMPORARY WALLS. SEE SHEET TMP-157 TEMPORARY SHORING LOCATION NO. B2-04 ESTIMATED QUANTITY = 1701 -Y1B- STA. 26+20±, 27.0′ LT TO -Y1B- STA. 28+09±, 27.0′ LT LENGTH = 189' AVERAGE HEIGHT = 9.0 FT MAXIMUM HEIGHT = 22.0 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHO SEE PLANS AND TEMPORARY SHORING PROVISION. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION. SURV EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS DETERMINE ACTUAL SHORING HEIGHTS. DESIGN TEMPORARY SHORING FROM STATION - Y1B- 26+20±, 27 FT LT, STATION - Y1B- 28+09±, 27 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT $(\gamma) = 120$ PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSFGROUNDWATER ELEVATION = 161 FT± DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPO SHORING FROM STATION - Y1B- 26+20±, 27 FT LT, TO STATION - Y1B- 2 27 FT LT. AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMI SHORING FROM STATION - Y1B- 26+20±, 27 FT LT, TO STATION - Y1B- 2 27 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STAN TEMPORARY WALLS. WHEN BACKFILL FOR RETAINING WALLS AND/OR BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORI BACKFILL OR BACKFILL MATERIAL REQUIRED FOR RETAINING WALLS AND/ BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED Z TEMPORARY WALLS. THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVI GEOTECHNICAL ENGINEER. THE DOCUMENT WAS SUBMITTED TO STAN SEALED BY A PROFESSIONAL ENGINEER, (JINYOUNG PARK, Ph.D.,

17	TEMPORARY SHORING LOCATION NO. B2-02	TEMPORARY
0 SF	-L- STA. 803+92±, 33.0' RT TO -L- STA. 808+60±, 33.0' RT LENGTH = 468' AVERAGE HEIGHT = 8.1 FT MAXIMUM HEIGHT = 8.5 FT	-Y1B- STA. LENGTH = 5
HORING,	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPOR SEE PLANS
RVEY NS TO	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	BEFORE BEG EXISTING G DETERMINE
ГО	DESIGN TEMPORARY SHORING FROM STATION -L- 803+92±, 33 FT RT, TO STATION -L- 808+60±, 33 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 144 FT±	DESIGN TEN STATION -Y PARAMETERS UNIT W FRICTI COHESI GROUNE
PORARY 2+40±,	DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 803+92±, 33 FT RT, TO STATION -L- 808+60±, 33 FT RT.	DO NOT USE 27+50±, 32
MPORARY 2+40±, ANDARD	AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 803+92±, 33 FT RT, TO STATION -L- 808+60±, 33 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.	IT MAY BE SHORING FF 32 FT LT. WALLS PROV
S RING D/OR ZONE OF	WHEN BACKFILL FOR RETAINING WALLS AND/OR BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR RETAINING WALLS AND/OR BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.	
	SEE SHEET TMP-158	
1 SF	TEMPORARY SHORING LOCATION NO. B2-05 ESTIMATED QUANTITY = 656 SF	TEMPORARY
0 FT	-Y1B- STA. 30+28±, 32.0′ LT TO -Y1B- STA. 30+85±, 32.0′ LT LENGTH = 57′ AVERAGE HEIGHT = 11.5 FT MAXIMUM HEIGHT = 16.0 FT	-Y1B- STA. LENGTH = 2
HORING,	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPOF SEE PLANS
RVEY NS TO	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	BEFORE BEG EXISTING G DETERMINE
ТО -	DESIGN TEMPORARY SHORING FROM STATION -Y1B- 30+28±, 32 FT LT, TO STATION -Y1B- 30+85±, 32 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSF GROUNDWATER ELEVATION = 162 FT±	DESIGN TEN STATION -Y PARAMETERS UNIT W FRICTI COHESI GROUNE
PORARY 28+09±,	DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y1B- $30+28\pm$, 32 FT LT, TO STATION -Y1B- $30+85\pm$, 32 FT LT.	DO NOT USE SHORING FF 27 FT LT.
MPORARY 28+09±, ANDARD	IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -Y1B- 30+28±, 32 FT LT, TO STATION -Y1B- 30+85±, 32 FT LT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.	AT THE CON SHORING FF 27 FT LT. TEMPORARY
S RING D/OR ZONE OF		WHEN BACKF OVERLAPS W BACKFILL C BRIDGE APF TEMPORARY
NTEC CON		NT NOT CONSIDER

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PROJ. REFERENCE NO. SHEET NO. SEE SHEET I-5987B TMP-2TS8 TMP-157 SHORING LOCATION NO. (B2-03) ESTIMATED QUANTITY = 732 SF A. 27+50±, 32.0' LT TO -Y1B- STA. 28+09±, 32.0' LT 59' AVERAGE HEIGHT = 12.4 FT MAXIMUM HEIGHT = 17.0 FT ORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING S AND TEMPORARY SHORING PROVISION. EGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO ACTUAL SHORING HEIGHTS. EMPORARY SHORING FROM STATION -Y1B- 27+50±, 32 FT LT, TO Y1B- 28+09±, 32 FT LT, FOR THE FOLLOWING ASSUMED SOIL RS AND GROUNDWATER ELEVATION: WEIGHT $(\gamma) = 120$ PCF TION ANGLE (ϕ) = 30 DEGREES SION(C) = 0 PSFNDWATER ELEVATION = $161 \text{ FT} \pm$ SE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y1B-32 FT LT, TO STATION -Y1B- 28+09±, 32 FT LT. PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY FROM STATION -Y1B- 27+50±, 32 FT LT, TO STATION -Y1B- 28+09±, FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL OVISION. SEE SHEET TMP-158 Y SHORING LOCATION NO.[B2-06] ESTIMATED QUANTITY = 4273 SF A. 30+28±, 27.0′ LT TO -Y1B- STA. 32+75±, 27.0′ LT 247' AVERAGE HEIGHT = 17.3 FT MAXIMUM HEIGHT = 23.0 FT ORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING. S AND TEMPORARY SHORING PROVISION. EGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO ACTUAL SHORING HEIGHTS. MPORARY SHORING FROM STATION -Y1B- 30+28±, 27 FT LT, TO Y1B- 32+75±, 27 FT LT, FOR THE FOLLOWING ASSUMED SOIL RS AND GROUNDWATER ELEVATION: WEIGHT $(\gamma) = 120$ PCF TION ANGLE (ϕ) = 30 DEGREES SION(C) = 0 PSFNDWATER ELEVATION = 162 FT± SE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY FROM STATION -Y1B- 30+28±, 27 FT LT, TO STATION -Y1B- 32+75±, ONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY FROM STATION -Y1B- 30+28±, 27 FT LT, TO STATION -Y1B- 32+75±, SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD WALLS. KFILL FOR RETAINING WALLS AND/OR BRIDGE APPROACH FILLS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING OR BACKFILL MATERIAL REQUIRED FOR RETAINING WALLS AND/OR PPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF WALLS. **SECTION 2** OF NORTA **TEMPORARY SHORING NOTES** SECTION 2 LOCATIONS B2-01 **THRU B2-06** NE TRAFFIC **DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**