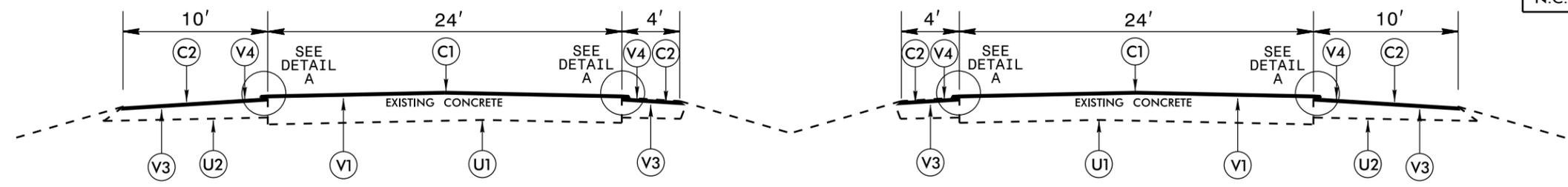
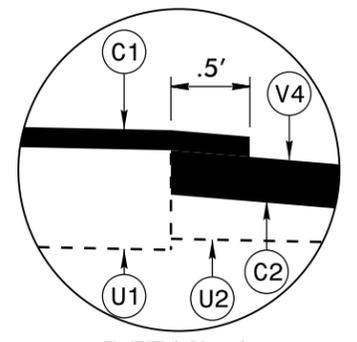


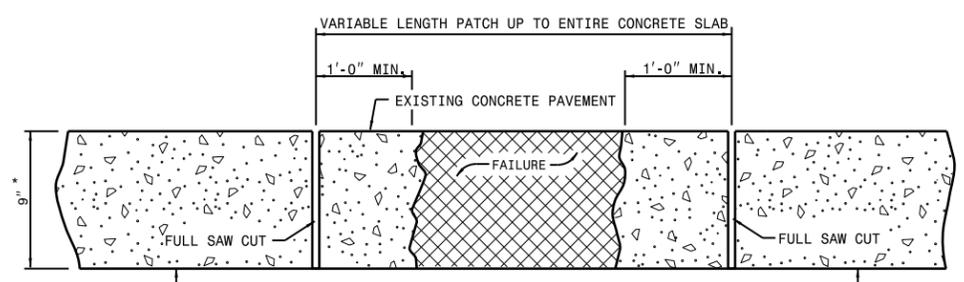
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.07.18.10411		



TYPICAL SECTION
TO BE USED ON MAPS: 1, 2

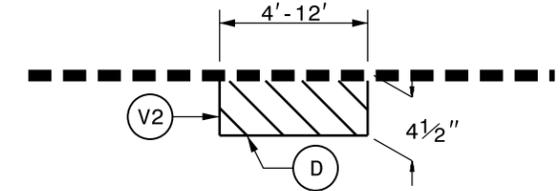


DETAIL A



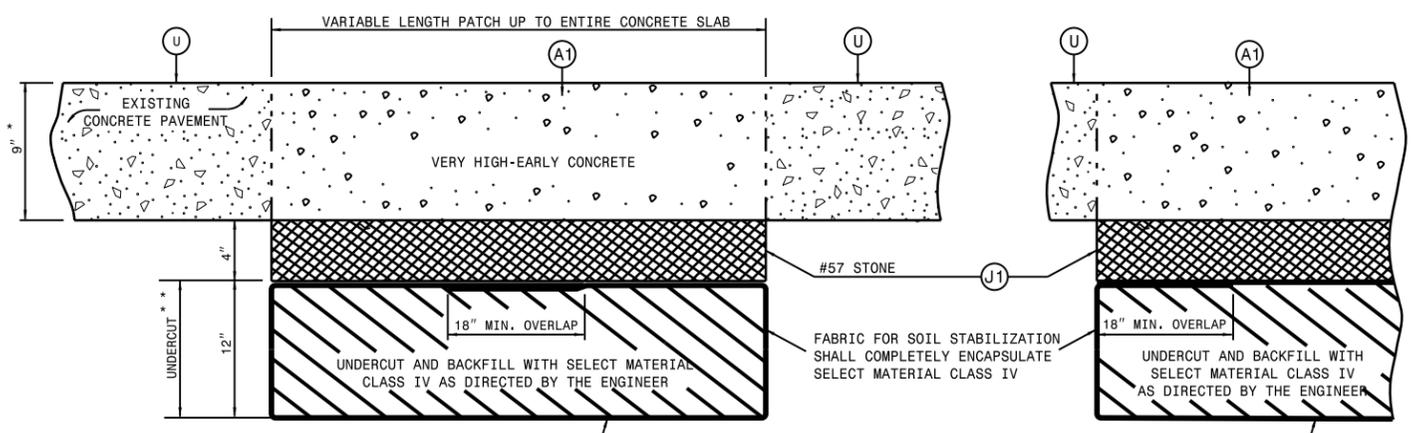
DETAIL OF SAW CUTS

PATCHING DETAIL 1



MILL EXISTING ASPHALT PAVEMENT 4 1/2" IN DEPTH AND FILL WITH INTERMEDIATE COURSE, TYPE I19.0B AT LOCATIONS AS DIRECTED BY THE ENGINEER.

TO BE USED IN CONJUNCTION WITH MAPS 1 AND 2
 MAP 1: 4 1/2" MILLING = 390 SYD
 INTERMEDIATE COURSE, TYPE I19.0B = 100 TONS
 MAP 2: 4 1/2" MILLING = 390 SYD
 INTERMEDIATE COURSE, TYPE I19.0B = 100 TONS



DETAIL OF CONCRETE PAVEMENT REPAIR

* DIMENSIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED
 ** UNDERCUT REQUIRED IN AREAS AS DIRECTED BY THE ENGINEER

PAVEMENT SCHEDULE

A1	9" VERY HIGH-EARLY CONCRETE
J1	#57 STONE
U	EXISTING PAVEMENT

DETAIL FOR REPAIR OF CONCRETE PAVEMENT

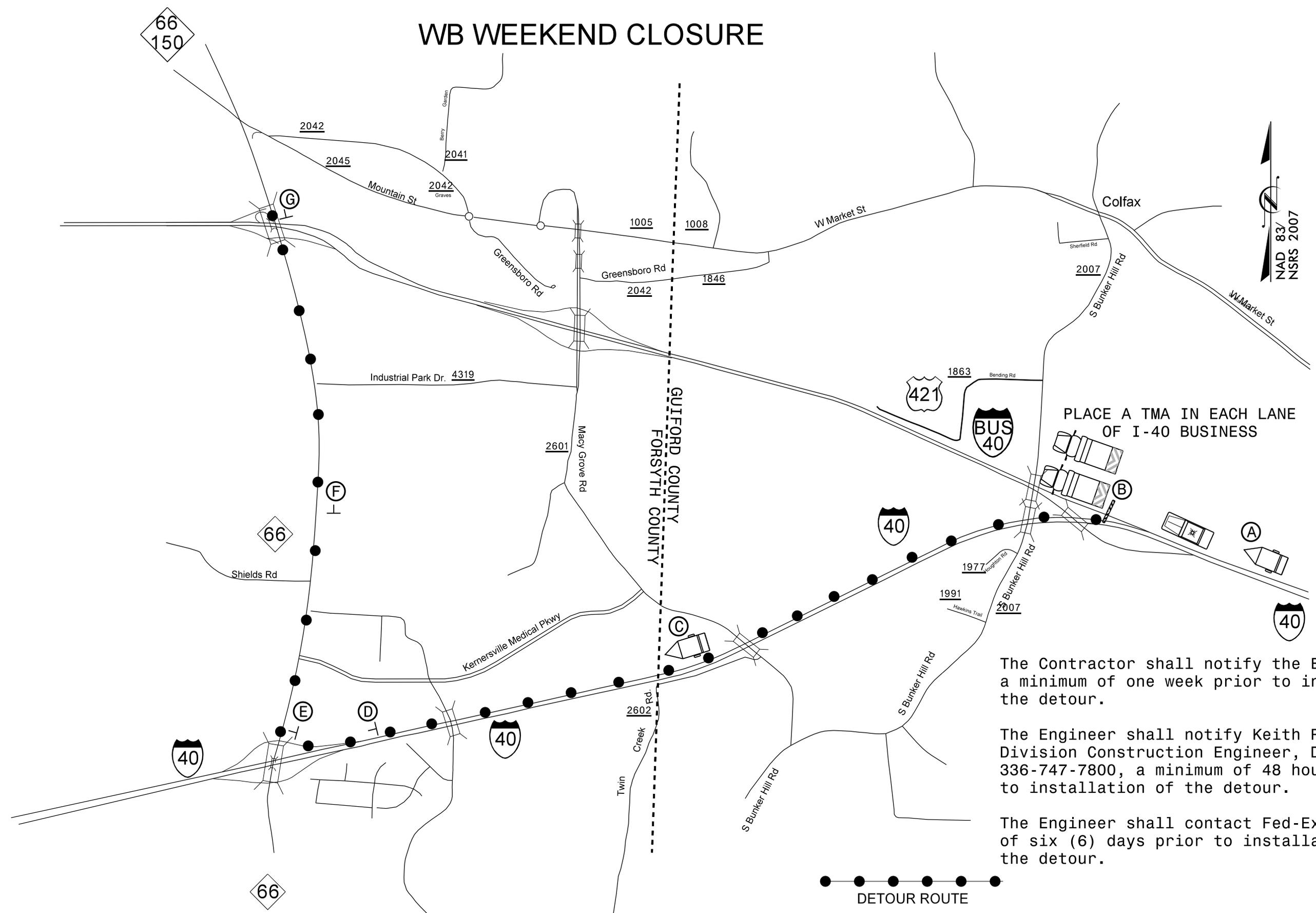
PAVEMENT SCHEDULE

C1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING COURSE (UBWC) AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.		
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.		
D	PROP. APPROX. 4 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD. IN ONE LIFT		
U1	EXISTING PAVEMENT.	U2	EXISTING SHOULDER.
V1	FINE MILL EXISTING UBWC (APPROX. 5/8")	V2	4 1/2" MILLING
V3	1 1/2" MILLING	V4	MILLED RUMBLE STRIPS

Refer to the North Carolina Department of Transportation "Partial and Full Depth Repair Manual" when Replacing Slabs and when Repairing Concrete Pavement.

16-MAR-2016 12:47 S:\DDC\Resurfacing Projects\2015 P0 Contracts\Guilford\7CR.20411.72\CADD\typical.l.dgn

WB WEEKEND CLOSURE



PLACE A TMA IN EACH LANE OF I-40 BUSINESS

The Contractor shall notify the Engineer a minimum of one week prior to installing the detour.

The Engineer shall notify Keith Raulston, Division Construction Engineer, Division 9, 336-747-7800, a minimum of 48 hours prior to installation of the detour.

The Engineer shall contact Fed-Ex a minimum of six (6) days prior to installation of the detour.

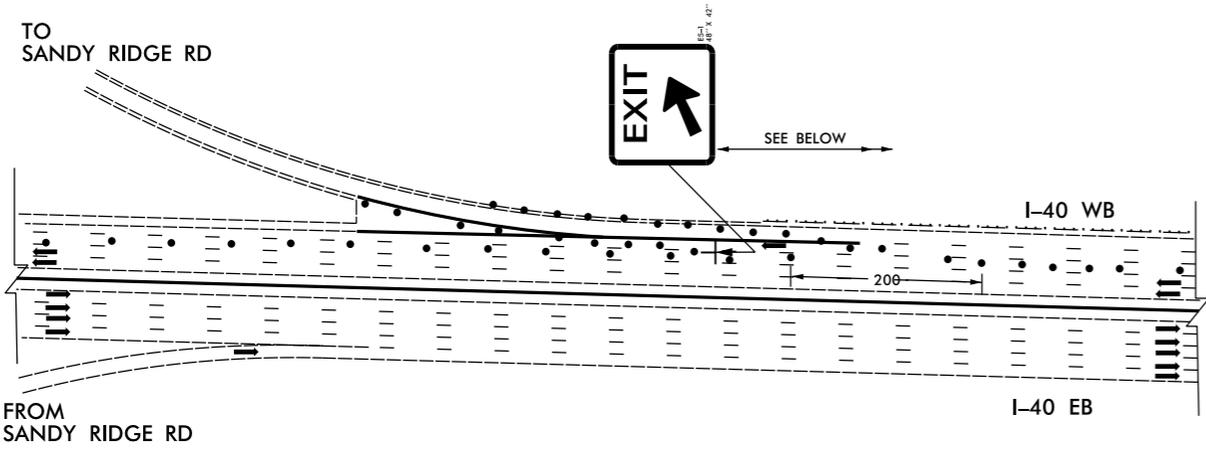
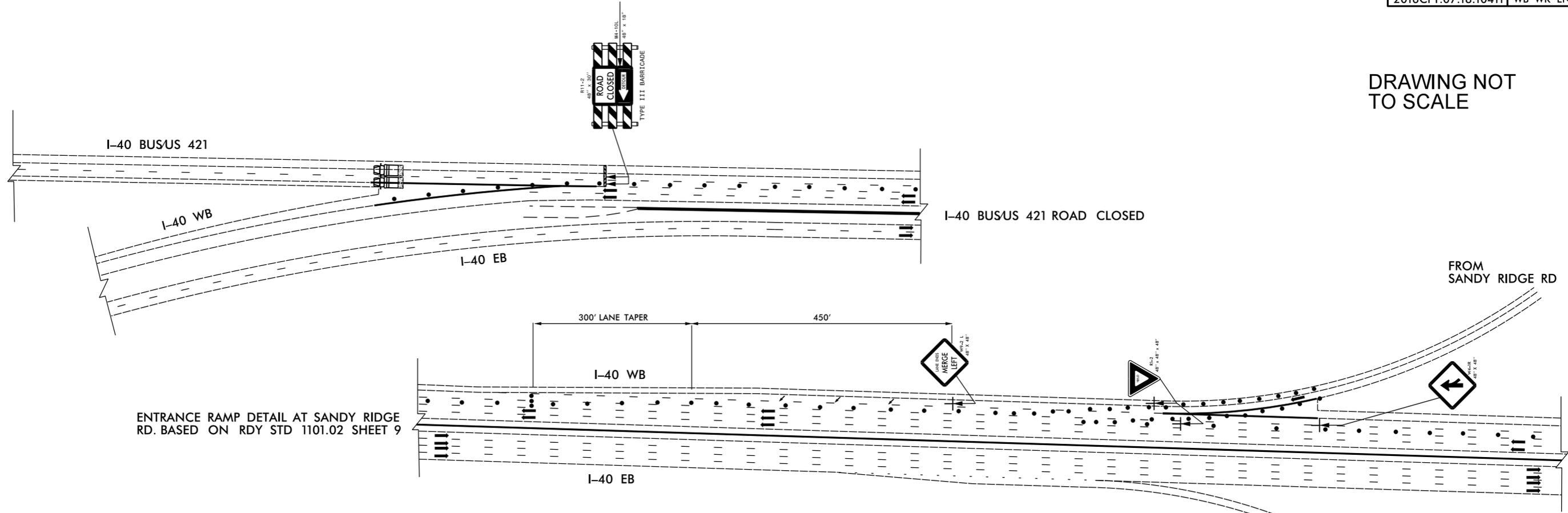
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DETOUR ROUTE

DRAWING NOT TO SCALE

REVISIONS

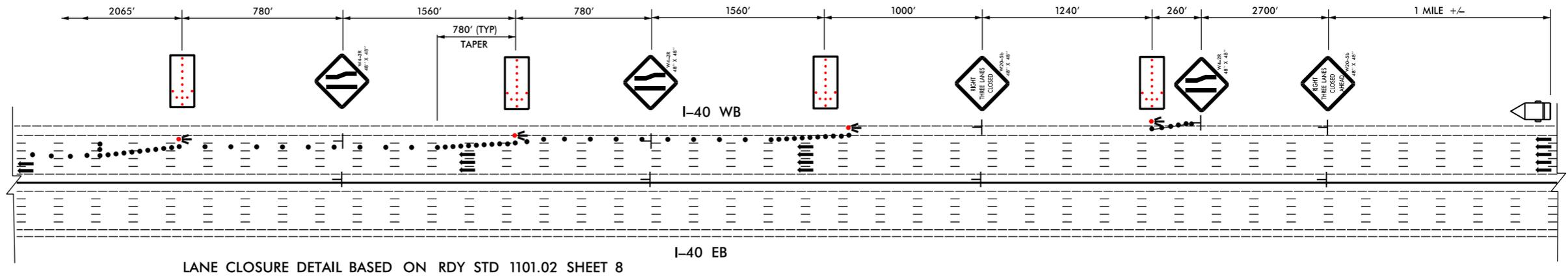
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 178601571374
 178601571374

DRAWING NOT TO SCALE



MESSAGE NO. 1	MESSAGE NO. 2
RIGHT	CLOSED
THREE	NEXT
LANES	4 MILES

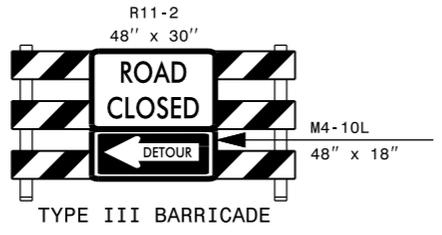
CHANGEABLE MESSAGE SIGN



16-MAR-2016 12:47
 S:\Resurfacing Projects\2017 PD Contracts\Gulford\I-40 Bus..US 421 from Forsyth_Gulford County Line to I-40\CADD\Detour 1.dgn
 atkins

MESSAGE NO. 1	MESSAGE NO. 2
WB BUS	USE
I-40	I-40 BUS
CLOSED	DETOUR

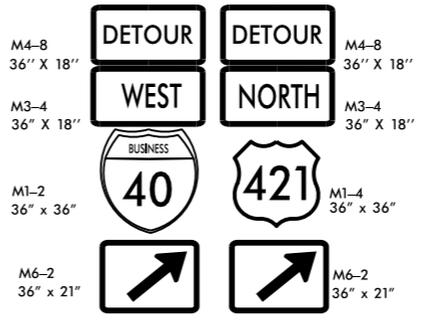
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A



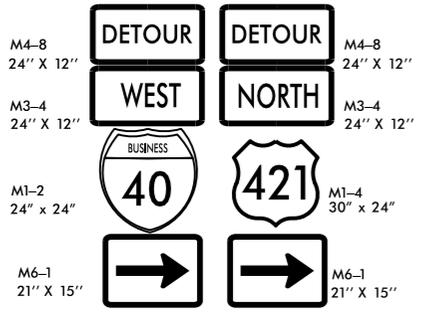
B

MESSAGE NO. 1	MESSAGE NO. 2
TO	NEXT
I-40 BUS	EXIT
US 421	

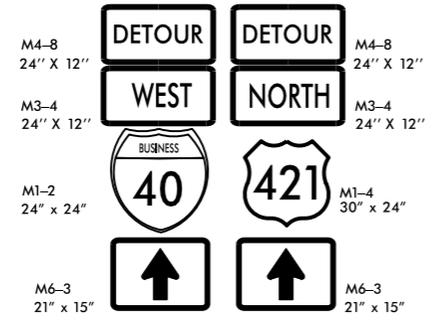
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C



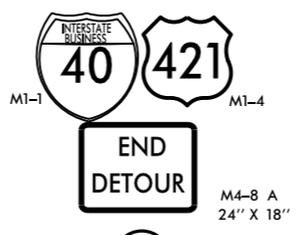
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E

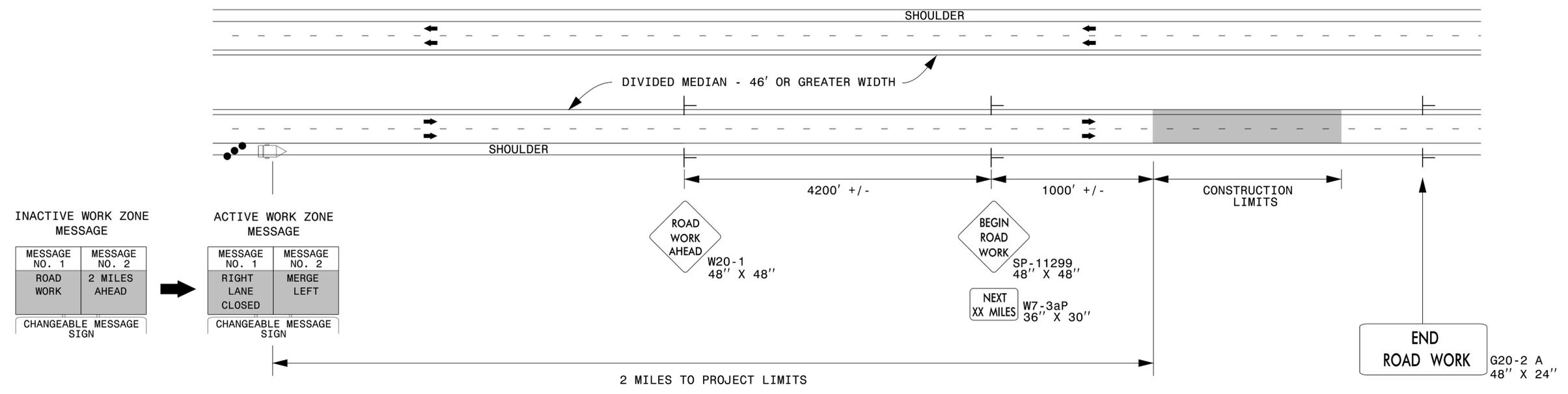


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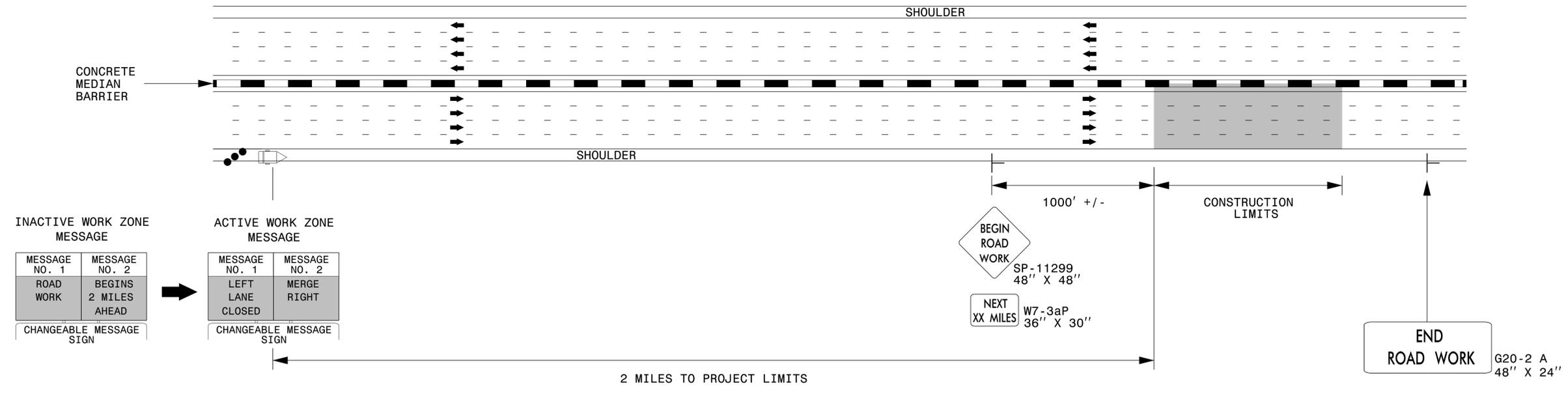


G

DIVIDED MEDIANS WITH WIDTHS 46' OR GREATER



DIVIDED MEDIANS WITH WIDTHS LESS THAN 46' OR WITH PERMANENT MEDIAN BARRIER



NOTES:

- 1) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 6' AS MEASURED FROM THE EDGE OF PAVEMENT.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) FOR MEDIAN WIDTHS LESS THAN 46' (MEASURED EDGELINE TO EDGELINE) USE THE BOTTOM DRAWING.
- 4) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 5) INSTALL "ROAD WORK AHEAD" (W20-1) ALONG ENTRANCE RAMP 500' PRIOR TO RAMP TERMINAL, AND "END ROAD WORK" (G20-2a) AT THE END OF EXIT RAMP WITHIN THE WORK ZONE.
- 6) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER AND WITH DIVIDED MEDIANS OF 46' OR GREATER. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

LEGEND

- CHANGEABLE MESSAGE SIGN (CMS)
- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW
- TRAFFIC DRUM



**RESURFACING ADVANCE
WARNING SIGNS FOR
HIGH SPEED FACILITIES
≥ 60 MPH**

3/23/2015 C:\Users\rmgarrrett\Downloads\Resurfacing_AdvWarn_HSpd.dgn User:rmgarrrett

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.07.18.10411	7	7.00

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	REPAIR OF JOINTED CONCRETE PAVEMENT SLAB SYD	#57 STONE TON	SHALLOW UNDERCUT CY	CLASS IV SUBGRADE STABILIZATION TON	GEOTEXTILE FOR PAVEMENT STABILIZATION SY	INCIDENTAL STONE BASE TONS	MILLING ASPHALT PAVEMENT, 1½" DEPTH SY	ASPHALT CONC SURFACE COURSE, TYPE S9.5B TONS	ASPHALT BINDER FOR PLANT MIX TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	4 1/2" PATCHING EXISTING PAVEMENT TONS	PATCHING CONCRETE PAVEMENT SPALLS SF	ULTRA-THIN BONDED WEARING COURSE TON	MILLED RUMBLE STRIPS LF	FINE MILLING ASPHALT PAVEMENT, 5/8" (UBWC) SY	SEALING EX PVT CRACKS (POLYMER PATCH) LB	PORTABLE LIGHTING LS	
2016CPT.07.18.10411	Guilford	1	I-40 BUS./US 421 EASTBOUND	FROM JOINT JUST EAST OF FORSYTH/GUILFORD COUNTY LINE TO BRIDGE OVER I-40	1	2	MD	NO	NO	1.34	25	401.0	120	134.0	361.00	688	50	11,006	933	56	36	100	412	687.87	14,150	18,867	11,304	1.00	
		"	"	SKIP BRIDGE OVER I-40 (#616)		2	MD	NO	NO	0.07	24																		
		"	"	FROM BRIDGE OVER I-40 TO I-40	1	2	MD	NO	NO	0.366	25							3,006	255	15	10			187.88	3,865	5,153			
TOTAL FOR MAP NO. 1										1.776		401.0	120	134.0	361.00	688	50	14,012	1,188	71	46	100	412	875.75	18,015	24,020	11,304	1.00	
2016CPT.07.18.10411	Guilford	2	I-40 BUS/US 421 WESTBOUND	FROM I-40 TO JOINT JUST WEST OF GUILFORD/FORSYTH COUNTY LINE	1	2	MD	NO	NO	1.59	25	557.0	266	296.0	799.00	1,776	50	13,059	1,107	66	42	100	536	816.20	16,790	22,387	21,852		
TOTAL FOR MAP NO. 2										1.59		557.0	266	296.0	799.00	1,776	50	13,059	1,107	66	42	100	536	816.20	16,790	22,387	21,852		
TOTAL FOR PROJ NO. 2016CPT.07.18.10411										3.366		958.0	386	430.0	1,160.00	2,464	100	27,071	2,295	137	88	200	948	1,691.95	34,805	46,407	33,156	1.00	
GRAND TOTAL																													

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4400000000-E	4457000000-N	4688000000-E		4690000000-E	4815000000-E		4905000000-N
										WORK ZONE SIGNS (STATIONARY) SF	TEMPORARY TRAFFIC CONTROL LS	6" X 90 M WHITE THERMO LF	6" X 90 M YELLOW THERMO LF	6" X 120 M WHITE THERMO LF	6" WHITE PAINT LF	6" YELLOW PAINT LF	SNOWPLOWABLE PAVEMENT MARKERS CRYSTAL/RED EA
2016CPT.07.18.10411	Guilford	1	I-40 BUS./US 421 EASTBOUND	FROM JOINT JUST EAST OF FORSYTH/GUILFORD COUNTY LINE TO BRIDGE OVER I-40	1	2	MD	1.34	25	72	1	9,179	9,179		11,474	9,179	113
		"	"	SKIP BRIDGE OVER I-40 (#616)		2	MD	0.07	24								
		"	"	FROM BRIDGE OVER I-40 TO I-40	1	2	MD	0.366	25								
TOTAL FOR MAP NO. 1										72	1	9,179	9,179		11,474	9,179	113
2016CPT.07.18.10411	Guilford	2	I-40 BUS/US 421 WESTBOUND	FROM I-40 TO JOINT JUST WEST OF GUILFORD/FORSYTH COUNTY LINE	1	2	MD	1.59	25	48		8,092	8,092	2,023	10,115	8,092	105
TOTAL FOR MAP NO. 2										1.59	0	8,092	8,092	2,023	10,115	8,092	105
TOTAL FOR PROJ NO. 2016CPT.07.18.10411										3.366	1	17,271	17,271	2,023	21,589	17,271	218
GRAND TOTAL										3.366	1	17,271	17,271	2,023	21,589	17,271	218