

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5216	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
46281.3.ST1	STM-1500(7)		

BRUNSWICK COUNTY

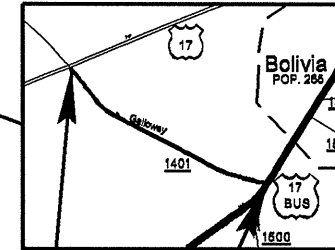
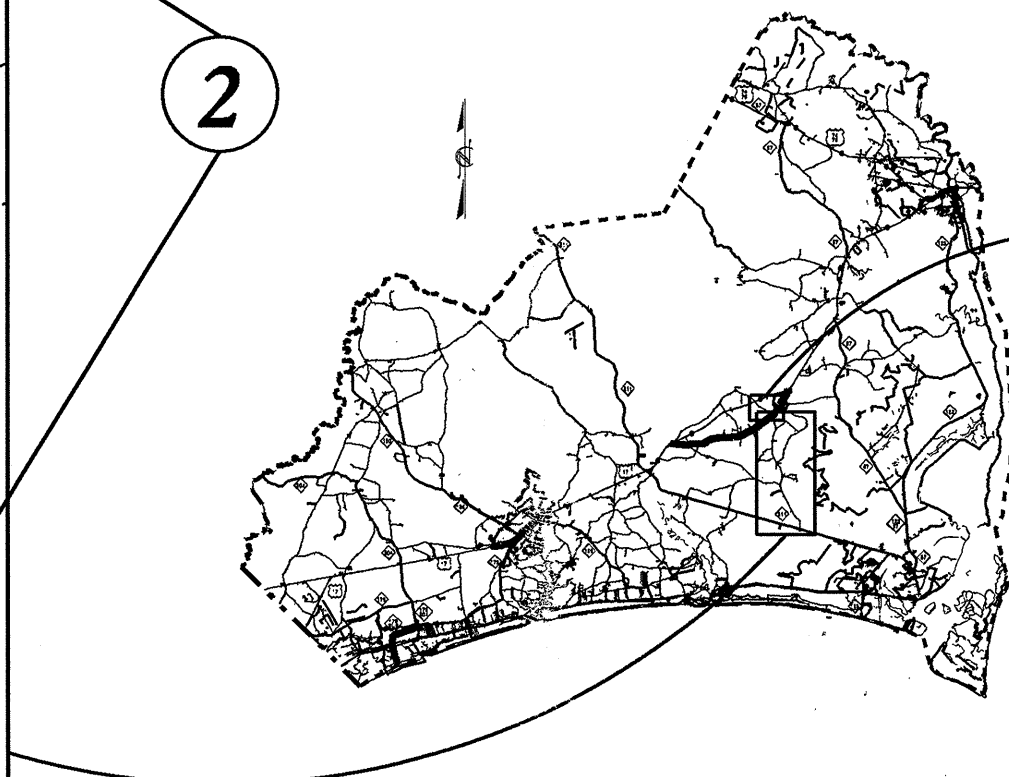
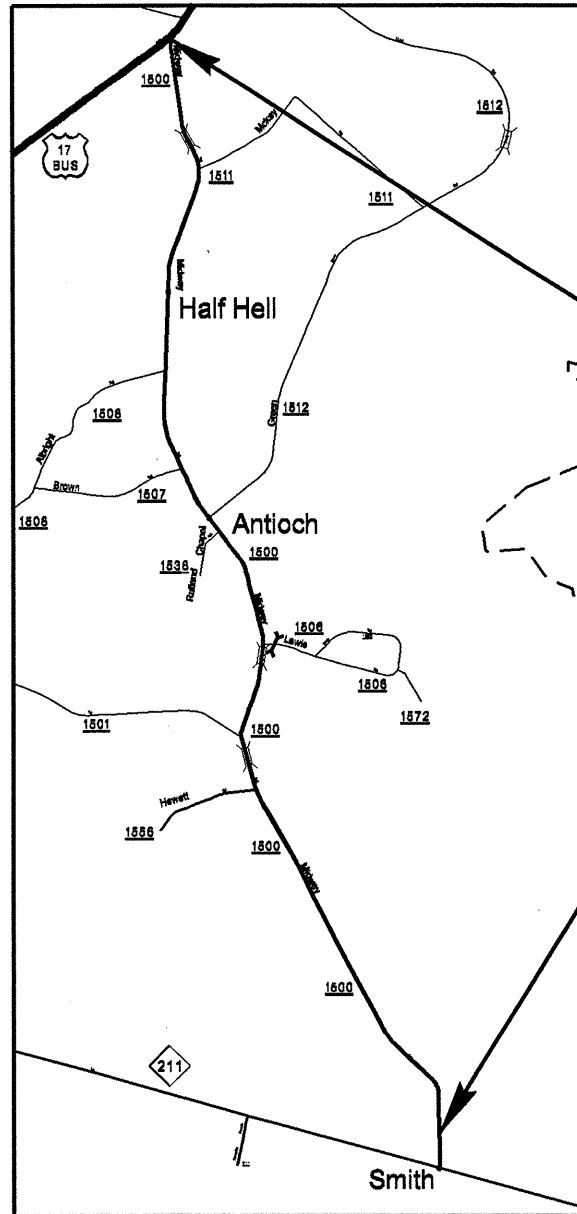
LOCATION:

MAP NO. 1: SR 1401 (GALLOWAY RD.) FROM 0.046 MILES SOUTH OF US 17 BYPASS TO US 17 BUSINESS.

MAP NO. 2: SR 1500 (MIDWAY RD.) FROM US 17 BUSINESS TO 0.12 MILES NORTH OF NC 211.

TYPE OF WORK:

RESURFACING, WIDENING, PAVEMENT MARKERS AND MARKINGS, ETC.



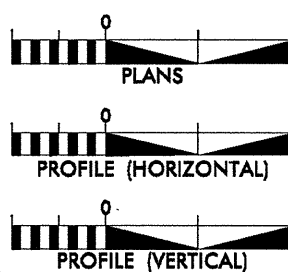
NOT TO SCALE

TIP PROJECT: R-5216

CONTRACT: C202609

07-JUL-2010 11:17 S:\Contracts\Resurfacing Projects\Division 3\R-5216\42608.L\A3_Midway_Galloway.dgn \$\$\$USERNAME\$\$\$

GRAPHIC SCALES



DESIGN DATA

ADT =
ADT =
DHV = %
D = %
T = %
V = MPH
* TTST DUAL

PROJECT LENGTH

MAP NO. 1 = 1.21 MI.
MAP NO. 2 = 6.43 MI.
TOTAL = 7.64 MI.

Prepared in the Office of:
DIVISION OF HIGHWAYS
124 Division Dr., Wilmington, NC 28401

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:
SEPT. 21, 2010

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN
TECHNICIAN

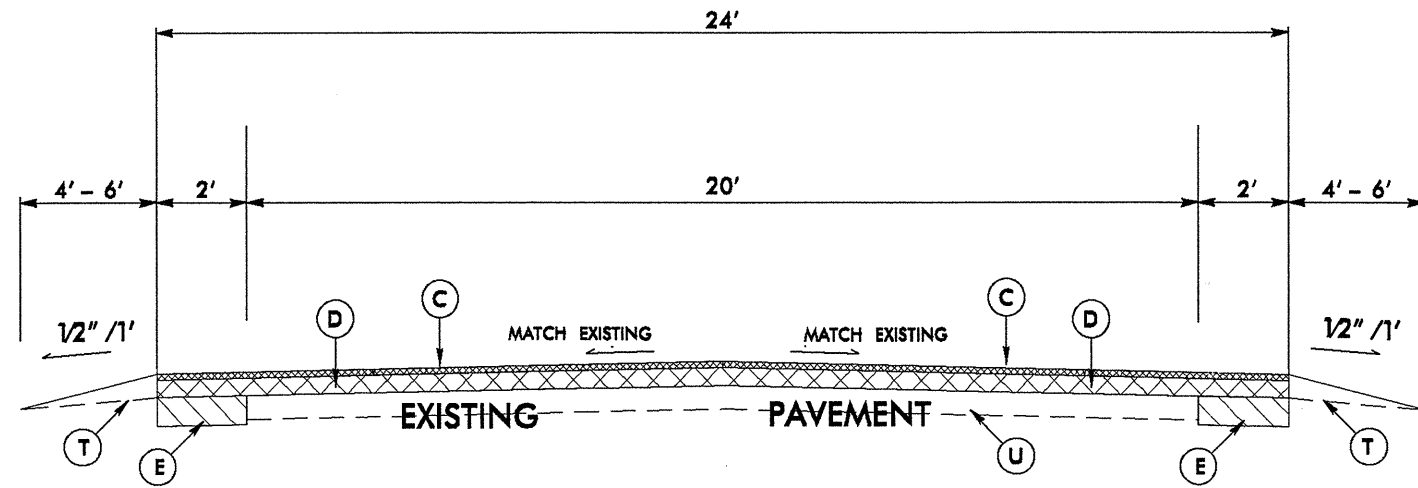
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SIGNATURE: _____

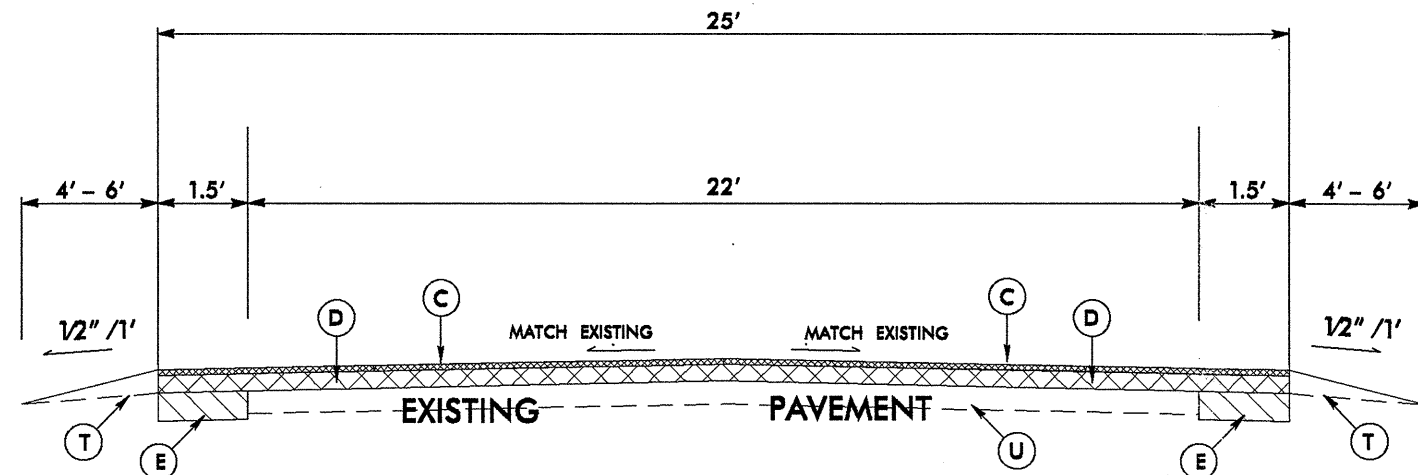
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

DIVISION DESIGN ENGINEER

PROJECT REFERENCE NO. R-5216	SHEET NO. 2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



TYPICAL SECTION NO. 1
USE ON MAP NO. 1



TYPICAL SECTION NO. 2
USE ON MAP NO. 2

PAVEMENT SCHEDULE	
C	PROP. APPROX. 1 1/2" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D	PROP. APPROX. 2 1/2" DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 286 LBS. PER SQ. YD.
E	PROP. APPROX. 5 1/2" DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 827 LBS. PER SQ. YD.
T	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT.

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.
SEE STD. DRAWING 1205.01, SHEET 2 OF 2, TABLE 1 FOR EDGE LINE OFFSETS.
M.E. = MATCH EXISTING

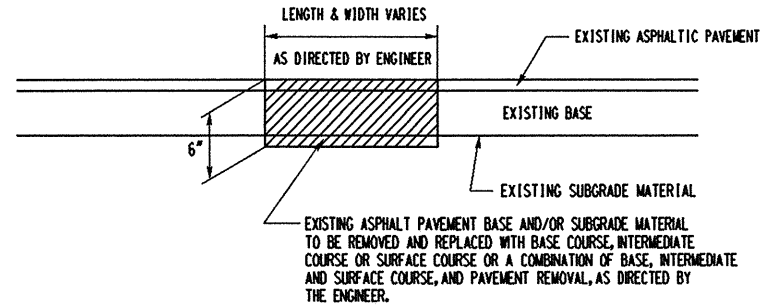
REVISIONS

8/17/99

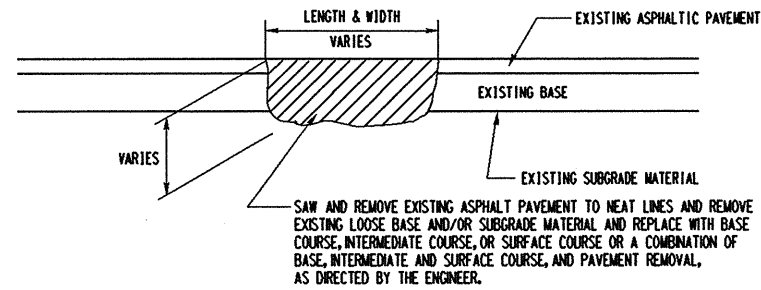
07-JUL-2010 1452
3-R-5216-12608.1-PA2_Midway_Ga1Loway.dgn
PROJECTS\Division 3\Projects\Resurfacing

PROJECT REFERENCE NO.	SHEET NO.
R-5216	3
RAW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

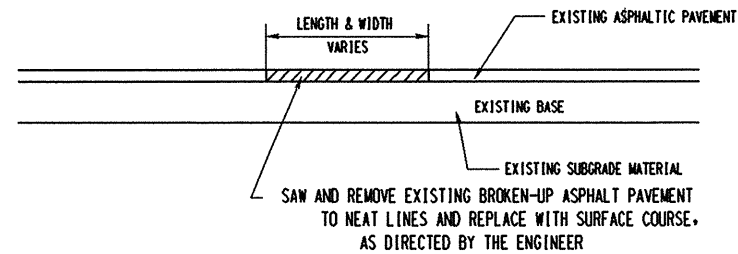
DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR TO RESURFACING FOR FULL DEPTH AND MILLING



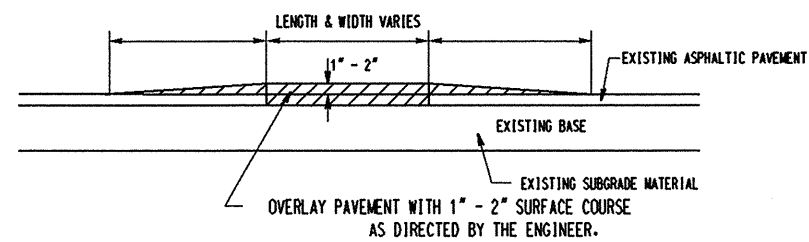
DETAIL NO. 1



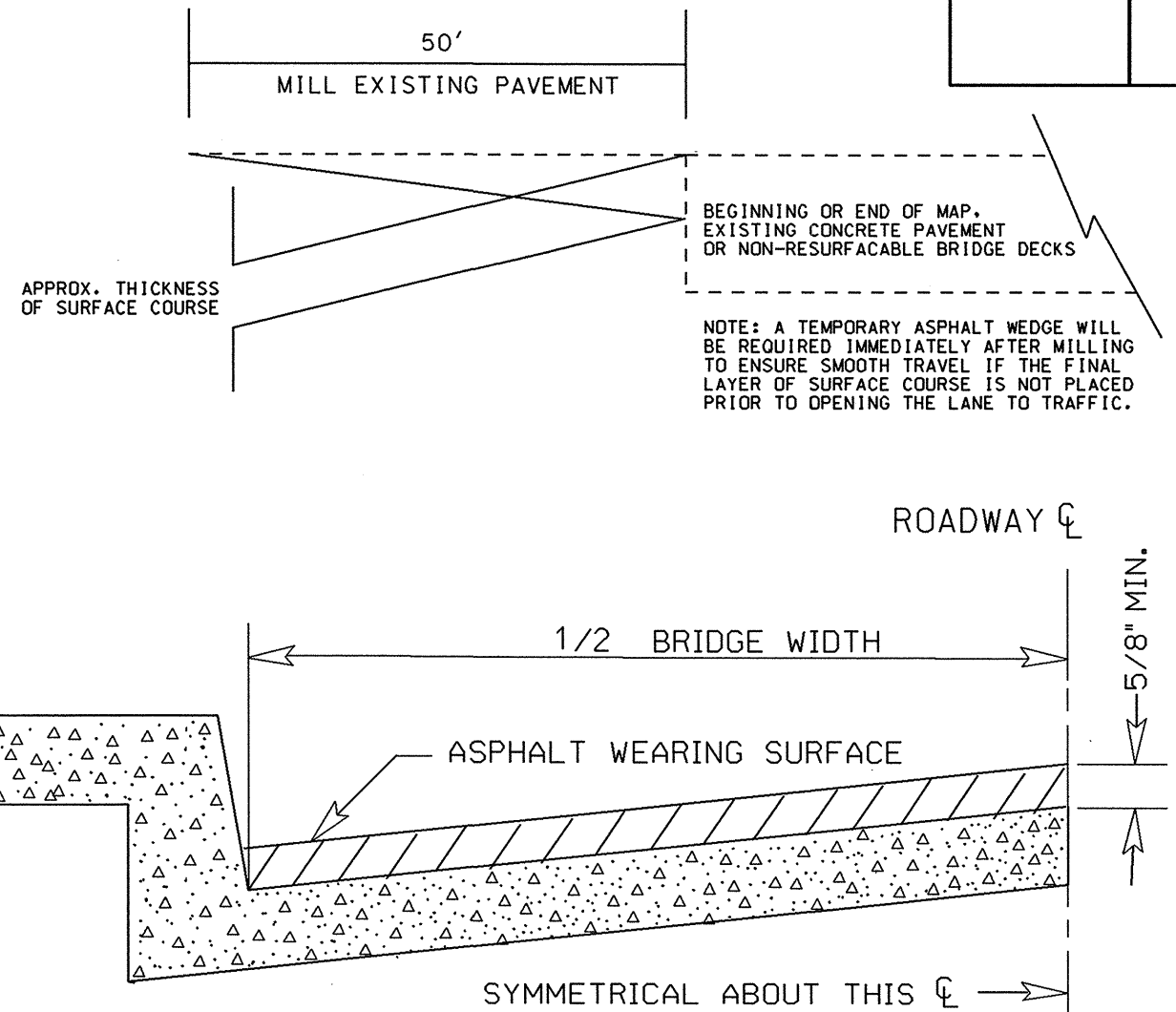
DETAIL NO. 2



DETAIL NO. 3



DETAIL NO. 4



BRIDGE HALF TYPICAL SECTION

FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

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 8/17/99

REVISIONS

PROJECT NO.	SHEET NO.	TOTAL NO.
R-5216 (46281.3.ST1)	4	5

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	BORROW EXC. CY	INC. STONE BASE TONS	SHOULDER RECONST. SMI	MILLING 0" - 1.5" SY	BASE COURSE, B25.0B TONS	INT. COURSE, I19.0B TONS	SURFACE COURSE, S9.5B TONS	PG 64-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT (MILL), S9.5B TON
R-5216 (46281.3.ST1) GALLOWAY	Brunswick	1	SR 1401 (GALLOWAY RD.)	0.046 MILES SOUTH OF US 17 BYPASS TO US 17 BUSINESS	1	NO	1.21	24	799	100	2.42	350	1,042	2,717	1,663	272	25
TOTAL FOR MAP NO. 1							1.21		799	100	2.42	350	1,042	2,717	1,663	272	25
TOTAL FOR PROJ NO. R-5216 (46281.3.ST1) GALLOWAY							1.21		799	100	2.42	350	1,042	2,717	1,663	272	25
R-5216 (46281.3.ST1) MIDWAY	Brunswick	2	SR 1500 (MIDWAY RD.)	US 17 BUSINESS TO 0.12 MILES NORTH OF NC 211, RESURFACING (MP 0.00-6.43)	2	NO	6.38	25	5,161	1,000	12.76	1,444	4,261	14,912	9,130	1,432	150
		"	"	NO WORK - BRIDGE DECKS (MP 0.53-0.54, 3.48-3.50, 4.04-4.05)		NO	0.05	24									
TOTAL FOR MAP NO. 2							6.43		5,161	1,000	12.76	1,444	4,261	14,912	9,130	1,432	150
TOTAL FOR PROJ NO. R-5216 (46281.3.ST1) MIDWAY							6.43		5,161	1,000	12.76	1,444	4,261	14,912	9,130	1,432	150
GRAND TOTAL							7.64		5,960	1,100	15.18	1,794	5,303	17,629	10,793	1,704	175

SUMMARY OF QUANTITIES

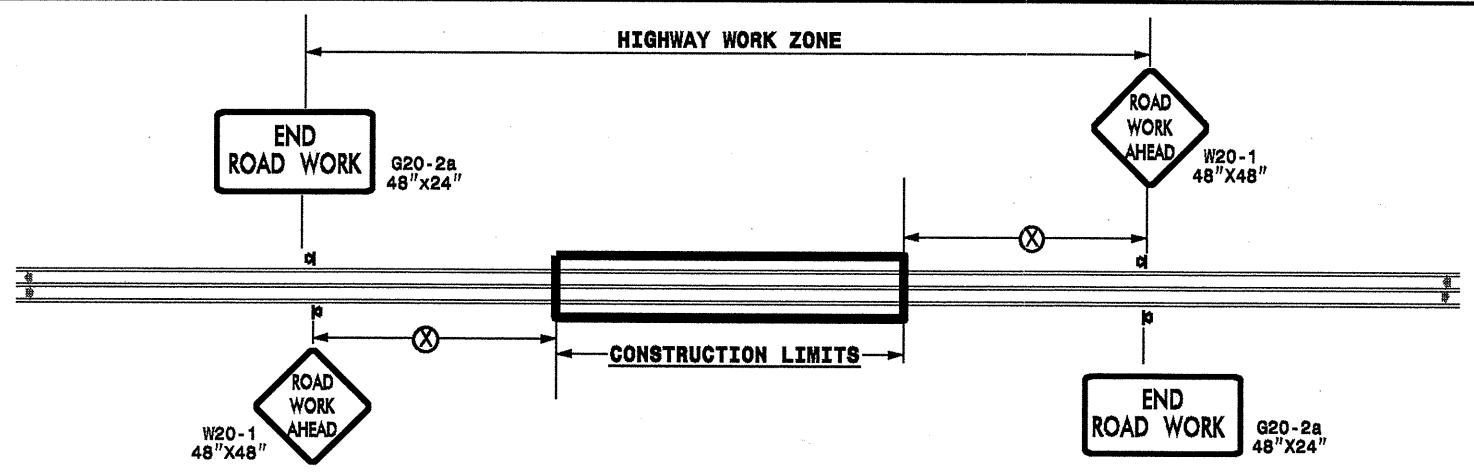
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	PATCHING EXISTING PAVEMENT (FULL DEPTH) TON	GENERIC PAVING ITEM INC. CONC SY	REMOVE & RESET EXISTING GUARD-RAIL LF	TEMP. SILT FENCE LF	STONE FOR EC CLASS B TON	SEDIMENT CONTROL STONE TON	TEMP. MULCHING ACR	SEED FOR TEMP. SEEDING LBS	FERTILIZER FOR TEMP. SEEDING TON	1/4" HARDWARE CLOTH LF	SEED & MULCHING AC
R-5216 (46281.3.ST1) GALLOWAY	Brunswick	1	SR 1401 (GALLOWAY RD.)	0.046 MILES SOUTH OF US 17 BYPASS TO US 17 BUSINESS	1	150			121	60		1.21	61	0.30	61	1.82
TOTAL FOR MAP NO. 1						150			121	60		1.21	61	0.30	61	1.82
TOTAL FOR PROJ NO. R-5216 (46281.3.ST1) GALLOWAY						150			121	60		1.21	61	0.30	61	1.82
R-5216 (46281.3.ST1) MIDWAY	Brunswick	2	SR 1500 (MIDWAY RD.)	US 17 BUSINESS TO 0.12 MILES NORTH OF NC 211, RESURFACING (MP 0.00-6.43)	2	1,100	60	750	643	161	161	6.43	322	1.61	322	9.57
		"	"	NO WORK - BRIDGE DECKS (MP 0.53-0.54, 3.48-3.50, 4.04-4.05)												
TOTAL FOR MAP NO. 2						1,100	60	750	643	161	161	6.43	322	1.61	322	9.57
TOTAL FOR PROJ NO. R-5216 (46281.3.ST1) MIDWAY						1,100	60	750	643	161	161	6.43	322	1.61	322	9.57
GRAND TOTAL						1,250	60	750	764	221	161	7.64	383	1.91	383	11.39

PROJECT NO.	SHEET NO.	TOTAL NO.
R-5216 (46281.3.ST1)	5	5

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4589000000-N	4685000000-E	4686000000-E	4810000000-E		4905000000-N
					TRAFFIC CONTROL LS	4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4" WHITE PAINT LF	4" YELLOW PAINT LF	SNOW PLOWABLE MARKERS (Y/Y) EA
R-5216 (46281.3.ST1) GALLOWAY	Brunswick	1	SR 1401 (GALLOWAY RD.)	0.046 MILES SOUTH OF US 17 BYPASS TO US 17 BUSINESS	*	12,800	12,800	12,778	9,583	80
TOTAL FOR MAP NO. 1						12,800	12,800	12,778	9,583	80
TOTAL FOR PROJ NO. R-5216 (46281.3.ST1) GALLOWAY						12,800	12,800	12,778	9,583	80
								22,361		
R-5216 (46281.3.ST1) MIDWAY	Brunswick	2	SR 1500 (MIDWAY RD.)	US 17 BUSINESS TO 0.12 MILES NORTH OF NC 211, RESURFACING (MP 0.00-6.43)	*	67,373	50,530	67,373	50,530	421
		"	"	NO WORK - BRIDGE DECKS (MP 0.53-0.54, 3.48-3.50, 4.04-4.05)						
TOTAL FOR MAP NO. 2						67,373	50,530	67,373	50,530	421
TOTAL FOR PROJ NO. R-5216 (46281.3.ST1) MIDWAY						67,373	50,530	67,373	50,530	421
								117,903		
GRAND TOTAL					1	80,173	63,330	80,151	60,113	501
								140,264		

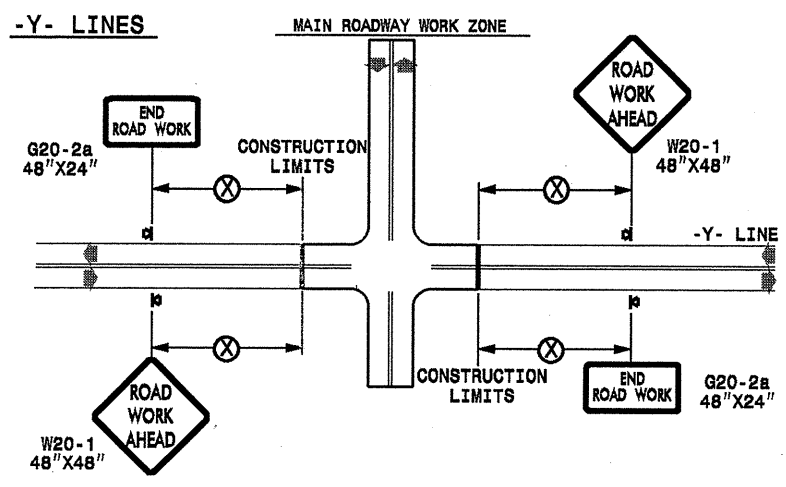
TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

⊞ PORTABLE SIGN

➔ DIRECTION OF TRAFFIC FLOW

**DETAIL DRAWING
FOR TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS**

APPROVED: _____	DATE: _____								
SEAL	DETAIL DRAWING FOR TWO-WAY UNDIVIDED ADVANCED WORK ZONE WARNING SIGNS								
	SCALE: NONE								
	DATE: 7-98								
	DWG. BY: 10-98								
	DESIGN BY: 01/01								
REVIEWED BY: _____	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td>7-98</td> <td>10/01</td> </tr> <tr> <td>10-98</td> <td>03/04</td> </tr> <tr> <td>01/01</td> <td>11/04</td> </tr> </tbody> </table>	REVISIONS		7-98	10/01	10-98	03/04	01/01	11/04
REVISIONS									
7-98	10/01								
10-98	03/04								
01/01	11/04								

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