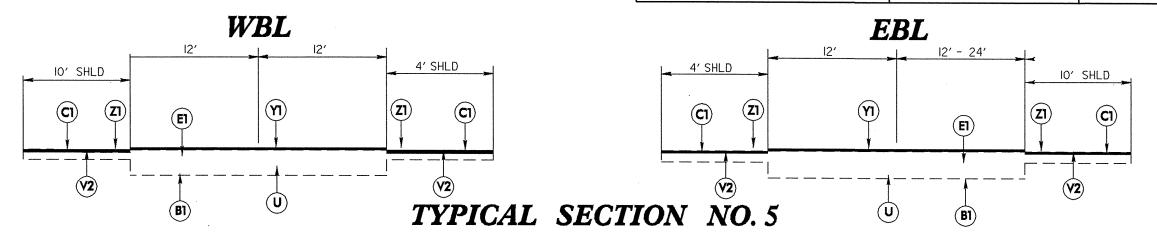
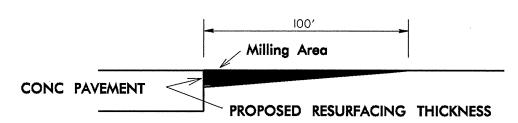


BUNCOMBE COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
<i>I</i> –5139	11	
1-3137		

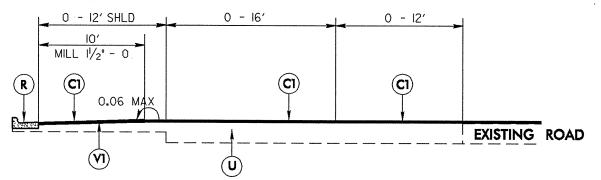




MILLING DETAIL AT CONCRETE PAVEMENT
USE THIS DETAIL WHERE ASPHALT PAVEMENT
AND CONCRETE PAVEMENT MEET
COST OF MILLING IS INCIDENTAL TO OTHER ITEMS

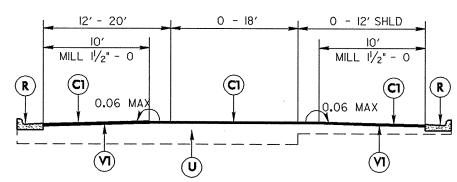
	PAVEMENT SCHEDULE
B1	UNDERCUT EXCAVATION, CLASS IV SUBGRADE STABILIZATION AND FABRIC FOR SOIL STABILIZATION, LOCATION AS DIRECTED BY THE ENGINEER
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE \$9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.OC, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5-1/2" IN DEPTH. LOCATION AS DIRECTED BY THE ENGINEER
R	EXISTING CONCRETE CURB OR CONCRETE ISLAND
U	EXISTING PAVEMENT
V1	MILL 0 - 11/2"
V2	MILL 11⁄2"
Y1	PROP APPROX 56" ULTRATHIN HOT MIX ASPHALT, TYPE B, AT AN AVERAGE RATE OF 70 LBS PER SQ YARD
Z1	MILLED RUMBLE STRIPS IN ACCORDANCE WITH STD. DWG. 665.01

RAMP



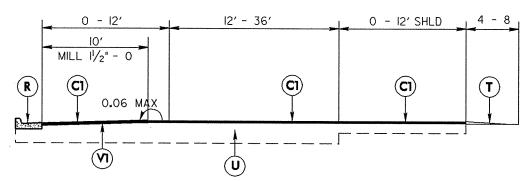
TYPICAL SECTION NO. 6

RAMP



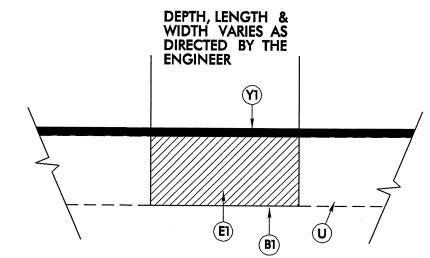
TYPICAL SECTION NO. 7

RAMP



TYPICAL SECTION NO. 8

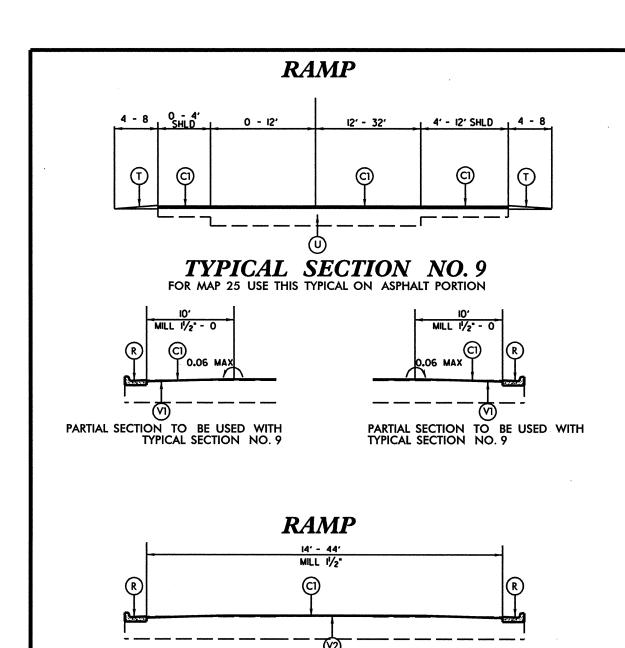
PROJECT NO.	SHEET NO.	TOTAL SHEETS
<i>I–5139</i>	12	
1-3137		



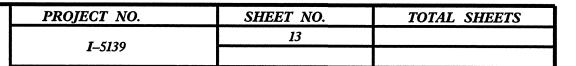
FULL DEPTH PATCHING DETAIL

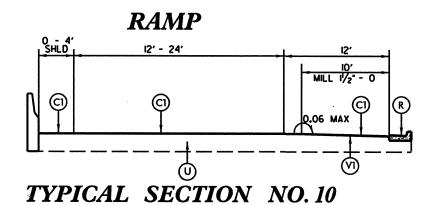
FOR CONCRETE PAVEMENT AS DIRECTED BY ENGINEER

	PAVEMENT SCHEDULE
B1	UNDERCUT EXCAVATION, CLASS IV SUBGRADE STABILIZATION AND FABRIC FOR SOIL STABILIZATION, LOCATION AS DIRECTED BY THE ENGINEER
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.OC, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5-1/2" IN DEPTH. LOCATION AS DIRECTED BY THE ENGINEER
R	EXISTING CONCRETE CURB OR CONCRETE ISLAND
T	SHOULDER RECONSTRUCTION USING EARTH MATERIAL, LOCATIONS AS DIRECTED BY ENGINEER
U	EXISTING PAVEMENT
V1	MILL 0 - 1½"



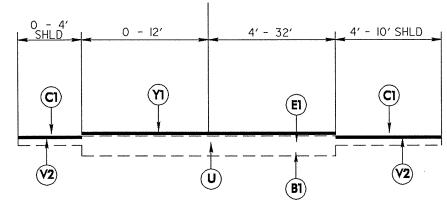
TYPICAL SECTION NO. 9A



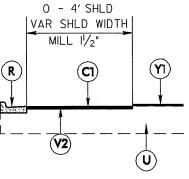


	PAVEMENT SCHEDULE
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
R	EXISTING CONCRETE CURB OR CONCRETE ISLAND
Т	SHOULDER RECONSTRUCTION USING EARTH MATERIAL,LOCATIONS AS DIRECTED BY ENGINEER
U	EXISTING PAVEMENT
V1	MILL 0 - 1½"
V2	MILL 112"

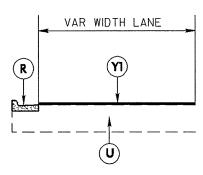
RAMP



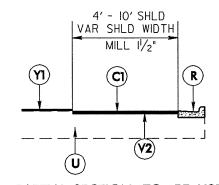
TYPICAL SECTION NO. 11
FOR MAP 25 USE THIS TYPICAL ON CONCRETE PORTION



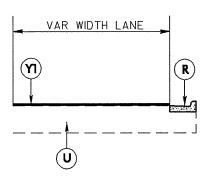
PARTIAL SECTION TO BE USED WITH TYPICAL SECTION NO. 11



PARTIAL SECTION TO BE USED WITH TYPICAL SECTION NO. 11



PARTIAL SECTION TO BE USED WITH TYPICAL SECTION NO. 11



PARTIAL SECTION TO BE USED WITH TYPICAL SECTION NO. 11

PROJECT NO.	SHEET NO.	TOTAL SHEETS
<i>I_5139</i>	14	
1-3139		

2006 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 18, 2006 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO. TITLE

DIVISION 6 - ASPHALT BASES AND PAVEMENTS

665.01 Milled Rumble Strips - Asphalt Pavements

DIVISION 8 - INCIDENTALS

848.05 Wheelchair Ramp - Curb Cut

848.06 Wheelchair Ramp - Retrofitting of Existing Curb

862.01 Guardrail Placement

862.02 Guardrail Installation

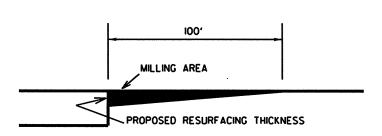
862.03 Structure Anchor Units

862.04 Anchoring End of Guardrail - B-77 and B-83 Anchor Units

	PAVEMENT SCHEDULE
B1	UNDERCUT EXCAVATION, CLASS IV SUBGRADE STABILIZATION AND FABRIC FOR SOIL STABILIZATION, LOCATION AS DIRECTED BY THE ENGINEER
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.OC, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5-1/2" IN DEPTH. LOCATION AS DIRECTED BY THE ENGINEER
R	EXISTING CONCRETE CURB OR CONCRETE ISLAND
U	EXISTING PAVEMENT
V2	MILL 11∕2″
Y1	PROP APPROX 5/8" ULTRATHIN HOT MIX ASPHALT, TYPE B, AT AN AVERAGE RATE OF 70 LBS PER SQ YARD

PROJECT NO.	SHEET NO.	TOTAL SHEETS
7 5120	15	
<i>I–5139</i>		

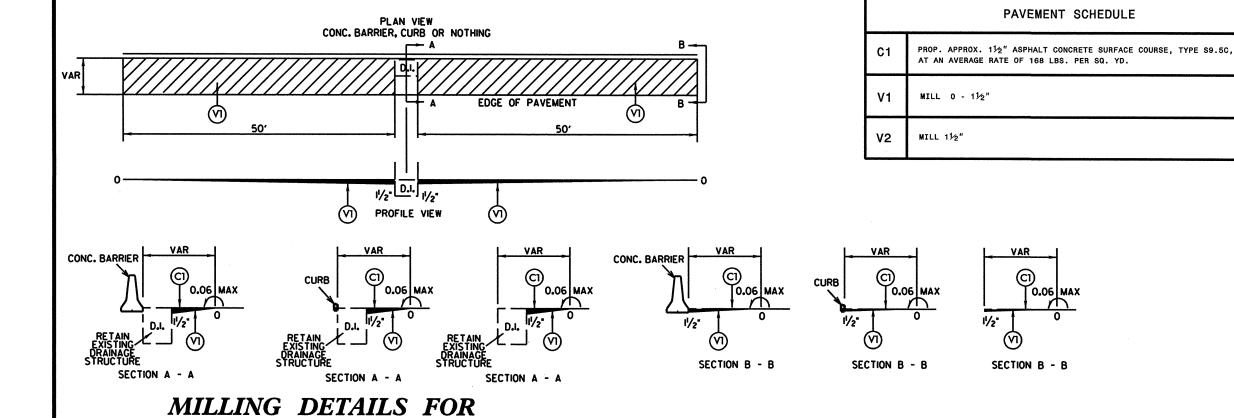
BUNCOMBE COUNTY

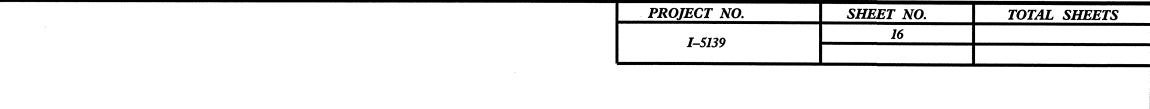


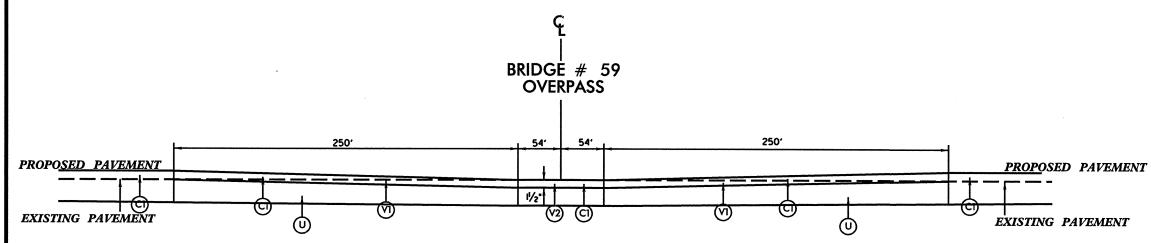
MILLING DETAIL AT BRIDGE APPROACHES COST OF MILLING IS INCIDENTAL TO OTHER ITEMS

EXISTING DRAINAGE STRUCTURES.

AS DIRECTED BY THE ENGINEER







BRIDGE OVERPASS MILLING DETAIL

MILL 0 – 1 1/2" AND MILL 1 1/2"

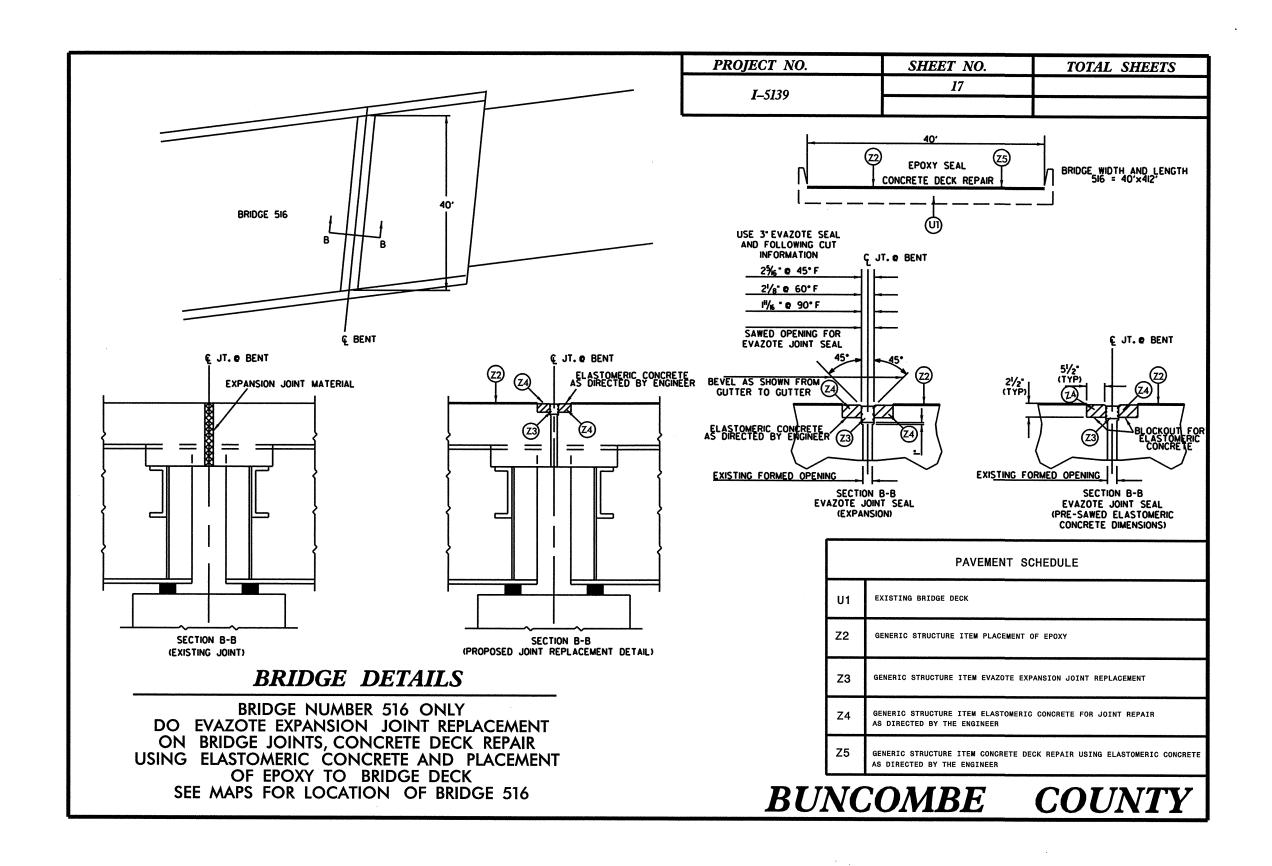
MILL LANES AND SHOULDERS

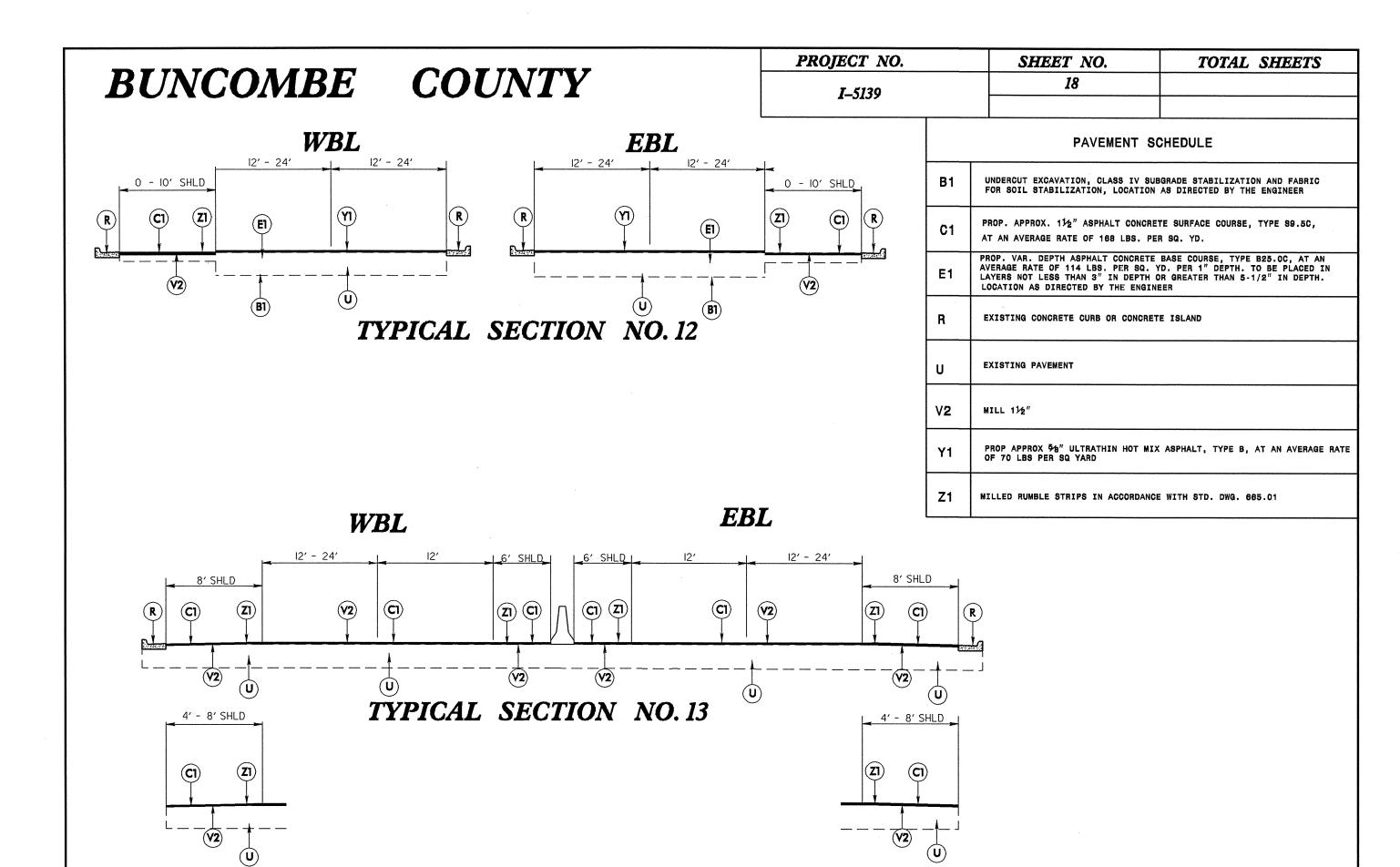
FOR BRIDGE # 59 OVERPASS ONLY

SEE MAPS FOR BRIDGE #59 LOCATION

MILLING DETAIL FOR MAP 1, MAP 4, MAP 23 AND MAP 27

PAVEMENT SCHEDULE								
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.							
U	EXISTING PAVEMENT							
V1	MILL 0 - 1½"							
V2	MILL 1½"							





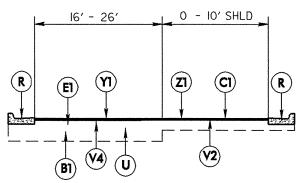
PARTIAL SECTION TO BE USED WITH

TYPICAL SECTION NO. 13

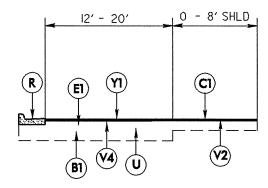
PARTIAL SECTION TO BE USED WITH TYPICAL SECTION NO. 13

BUNCOMBE COUNTY

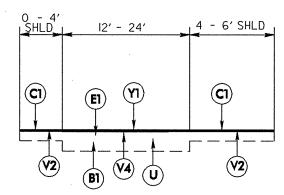
RAMP



TYPICAL SECTION NO. 14

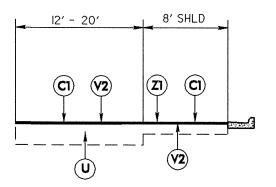


TYPICAL SECTION NO. 15



TYPICAL SECTION NO. 16

PROJECT NO.	SHEET NO.	TOTAL SHEETS
<i>I–5139</i>	19	
1-3137		



TYPICAL SECTION NO. 17

	PAVEMENT SCHEDULE
B1	UNDERCUT EXCAVATION, CLASS IV SUBGRADE STABILIZATION AND FABRIC FOR SOIL STABILIZATION, LOCATION AS DIRECTED BY THE ENGINEER
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5-1/2" IN DEPTH. LOCATION AS DIRECTED BY THE ENGINEER
R	EXISTING CONCRETE CURB OR CONCRETE ISLAND
U	EXISTING PAVEMENT
V2	MILL 11/2"
V4	MILL 5%" , LACATIONS AS DIRECTED BY THE ENGINEER
Y1	PROP APPROX 56" ULTRATHIN HOT MIX ASPHALT, TYPE B, AT AN AVERAGE RATE OF 70 LBS PER SQ YARD
Z1	MILLED RUMBLE STRIPS IN ACCORDANCE WITH STD. DWG. 665.01

SUMMARY OF QUANTITIES

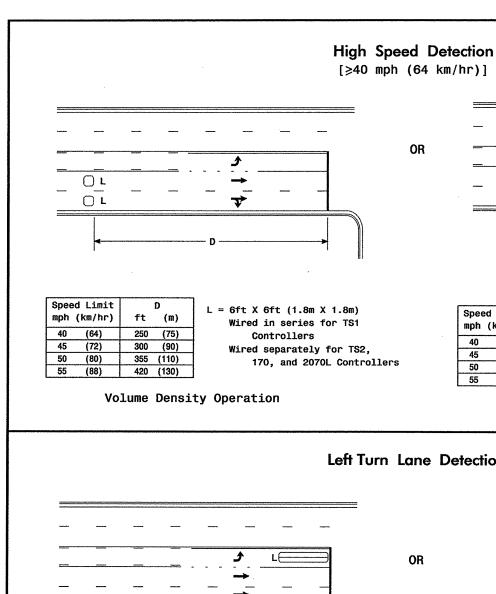
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20 1-240 OFF RAMP FROM 140 NOT US 74A 11 0.25 2-40 49 29 49 10 29 10 49 2-169 10 2-1					<u> </u>					4				-						-	2				990		ļ	 	ļ
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28 1-240 EBL CONC) 29 1-240 EBL FROM 49 MLES PAST (END CONC) OF BRIDGE 15 10.39 50 11 67 111 2.580 39.4 250 13 15 19 362 10.349 445 2.600 19.677 19.6		27	1-240 ON RAMP		9	0.33	34-38		ļ	11		0.56	460	-	2,450		640	ļ	38	-	4			<u> </u>	 			 	<u> </u>
29 1-240 EBL 322 TOLS 70 (CHARLOTTE STREET) D 1.03		28	I-240 EBL	CONC.)	12	0.49	24-58	111	67		111		2,580			304	250	13	15	19		362	10,349	445	2,600				l
Solution From List Right (Seed Conc.) 13 1.03 30.50 23.740 22.07 132 50 10.677 1		29	I-240 EBL	322 TO US 70 (CHARLOTTE STREET)	13	1.03	30-50						26,480				2,460		148		50				10.877				
FROM 130 MILES WEST OF US 76 (CHARLOTTE 1		30	1-240 WBI		13	1.03	30-50						22.740				2 207		400								<u> </u>	1	
32 L240 OFF RAMP FROM L240 TO L240 OFF RAMP 14 0.16 18-22 21 13 21 1.680 57 2 2 3 5 69 1.690 84 33 L240 OFF RAMP FROM L240 TO L240 OFF RAMP 14 0.27 24-34 48 29 48 29 48 1.584 1.584 1.590 1.48 6 9 7 1.133 3.802 150 3 1.428 1.240 1				FROM 1.03 MILES WEST OF US 70 (CHARLOTTE					 				23,740					 	132	 	50			 	10,877	<u> </u>	 	 	
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34 US 19/23 OFF RAMP FROM END OF CONC TO 1-240 OFF RAMP 14 0.01 18 1 1 1 1 1 2 6 1 2 63 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		T												1,680				2	 	3	 			 	 		ļ		
35 1-240 ON RAMP FROM BEG CONC. TO 1-240 14 0.04 16-26 4 3 4 67 142 12 6 1 1 13 375 18 200	-						 		29				1,584			130	148	6	+ 9 -	 7	 				1,426	 	ļ	-	-
36 L240 OFF RAMP FROM L240 OFF RAMP 14 0.10 18 13 8 13 8 13 8 13 18 13 8 13 8 13									 	 						2		ļ	<u> </u>	-	<u> </u>			 	 	-	 	 	
37 1-240 ON RAMP FROM BEG CONC TO 1-240 14 0.25 18-24 38 23 38									3				67				6	1 1	 	+	 			 	200	 	 	+	-
38 US 19/23 ON RAMP FROM 1-240 ON RAMP TO END OF CONC 14 0.01 18 2 1 2 67 4 6		1 00		****					8	 		 		178				1 1	 	2	 -		1	 	-	1	 	1	
39 I-240 ON RAMP FROM I-240 ON RAMP FROM BRIDGE 1 TO I-240 ON RAMP 14 0.05 18 6 4 6 4 32 4 320 11 1 1 1 1 1 1 1 320 16 16 1 1 1 320 16 1 1 1 1 1 320 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		T															<u> </u>	4	 	 6	 		1		 	 		-	
40 L-240 ON RAMP FROM BRIDGE 1 TO I-240 ON RAMP 14 0.03 18 4 2 4 5 320 11 5 5 10 20 16 5 5 5 5 5 1,643 79 5 6 1,605 79 5 6 1,605 79									 	 	2		67				6	 	 	 	 			+	 	 	-	+	+
41 US 19/23 OFF RAMP FROM BRIDGE 1 TO US 19/23 OFF RAMP 14 0.03 18 4 2 4 320 11 50 10 11 320 16 16 10 11 320 16 16 10 11 320 16 16 10 11 320 16 16 10 11 320 16 16 10 11 320 16 16 10 11 320 16 16 10 16 18/56 14 174 2 10 3 150 179 170 170 170 170 170 170 170 170 170 170											6			1				1-1-	 	+ 1	 				 	 	 	+	
42 1-240 OFF RAMP FROM 1-240 TO HAYWOOD STREET 16 0.16 20-30 23 14 23 416 391 62 40 3 2 3 1 4 78 191 91 91 91 91 91 91 91 91 91 91 91 91										 								 	 	 	 		1	 	-	+	ļ	 	+
43 I-240 ON RAMP FROM HAYWOOD STREET TO I-240 15.16 0.21 16-20 26 16 26 102 409 71 10 3 1 4 78 2.218 104 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5									<u> </u>									 	 	 1	 		 	·	-	-		+	-
44 1-240 OFF RAMP FROM 1-240 TO US 25 (MERRIMON AVE.) 14 0.14 16-24 20 12 20 20 20 20 20 20 20 20 20 20 20 20 20										 		-						 	2	3	 		1			+	 		ļ
45 L-240 ON RAMP FROM US 25 (MERRIMON AVE.) TO I-240 14,17 0.11 20-22 16 10 16 1.856 44 174 2 10 3 50 1,420 64 520 1 10 16 1.856 1 1.8													·					 	 	4	 				-		11		
46 I-240 ON RAMP FROM SR 1781 (BROADWAY STREET) TO I-240 14,16 0.15 20-24 20 12 20 278 777 54 26 2 2 3 56 1,605 79							<u> </u>							1,276			 	1	 	 	 				 	-	ļ	-	-
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47 I-240 OFF RAMP FROM I-240 TO CHERRY STREET 14 0.05 16-20 6 4 6 94 411 17 9 1 1 1 18 507 25																	 	1 1	+	1	 		 	 	.		ļ	_	
48 I-240 ON RAMP FROM MONTFORD AVE TO I-240 14,15 0.23 16-24 27 16 27 480 1,913 74 45 3 3 4 76 2,159 108						 								1				 		4	ļ		1	T	 	1 1	11	1	11
49 I-240 OFF RAMP FROM I-240 TO US 70 (CHARLOTTE STREET) 14,16 0.15 24-32 22 13 22 667 580 60 63 3 4 3 62 1,783 88																		 	·	 	ļ		1	·	ļ	2	<u> </u>		
50 1-240 ON RAMP FROM US 70 (CHARLOTTE STREET) TO 1-240 14,16 0.14 20-26 18 11 18 280 906 49 27 2 2 3 52 1,478 72 7074 7074 7074 7074 7075 7074 7075 7074 7075 7074 7075 7074 7075 7074 7075 7074 7075 7074 7075	PROJ NO	50 0. I-5139 (I-240 ON RAMP (45279.3.ST1)	FROM US 70 (CHARLOTTE STREET) TO I-240	14,16		20-26			365		18 22			34 340					<u> </u>	604				110 550	2	 	1	
					·	*	·																				2] 3	
GRAND TOTAL 19.48 823 497 365 823 18.22 74,705 9,703 34,340 2,247 35,603 95 2,137 127 601 2,426 69,335 3,288 119,556	GRAND	TUTAL	1		L	19.48	I	823	497	365	823	18.22	74,705	9,703	34,340	2,247	35,603	95	2,137	127	601	2,426	69,335	3,288	119,556	7	2	3	1

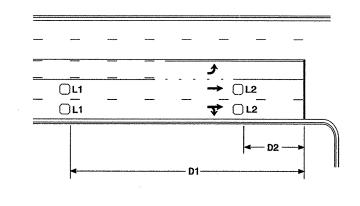
SUMMARY OF QUANTITIES | STEEL BM | STEEL BM | ADDITIONAL | GUARDRAIL | GUARDR

COUNTY MAP ROUTE	DESCRIPTION	STEEL BM	STEEL BM	ADDITIONAL	GUARDRAIL				QUAN			PORTABLE	MATTING	GENERIC	JUNCTION	INDUCTIVE	LEAD-IN	GENERIC	CENEDIC	CENEDIC	CENEDIC
		GUARDRAIL	GUARDRAIL, SHOP CURVED	GUARDRAIL POSTS	ANCHOR UNITS, TYPE CAT-1	ANCHOR	ANCHOR UNITS, TYPE 350	ANCHOR UNITS, TYPE M-350	ANCHOR	ANCHOR UNITS, TYPE B-83	EXISTING	LIGHTING	FOR EROSION CONTROL	EROSION CONTROL ITEM SEEDING	BOX (STANDARD SIZE)	LOOP SAWCUT	CABLE (14-2)	STRUCTURE ITEM EVAZOTE EXPANSION JOINT REPLACEMENT	GENERIC STRUCTURE ITEM PLACEMENT OF EPOXY	GENERIC STRUCTURE ITEM CONCRETE DECK REPAIR USING ELASTOMERIC CONCRETE	FOR JOINT
NO		LF	LF	EA	EA	EA	EA	EA	EA	EA	LF	LS	SY	AC	EA	LF	LF	LF	SF	SY	SY
Buncombe 1 I-240 EBL FRO	M US 70 (CHARLOTTE ST.) TO BRIDGE 504	5,850.0		10	2	2	7	7	13	1	6,000	1	18,876	3.90							
	FROM BRIDGE 504 TO I-40 (END CONC)	1 3,333,33		1					1		0,000		10,070	3.00				240	46 400	183	12
	ROM I-40 (BEGIN CONC) TO BRIDGE 507										<u> </u>		 					240	16,480	103	12
	M BRIDGE 507 TO US 70 (CHARLOTTE ST.)	6,600.0			6	1	7	1 4	7	5	7,000		18,731	3.87		400	000	1	<u> </u>		
5 I-240 ON RAMP	FROM EAST WOODFIN ST. TO 1-240	1 0,000.0							 		1,000		10,731	3.07	'	400	800				
	FROM I-240 TO US 70 (CHARLOTTE ST.)							<u> </u>	 				 				4.000		<u> </u>		
7 I-240 ON RAMP	FROM SR 2244 TO I-240	1		<u> </u>					<u> </u>				1 604	0.25		600	1,200	 			
8 I-240 OFF RAMP	FROM I-240 TO US 70/74A	200.0	***************************************		1				 		200		1,694	0.35		000	400		-		
9 I-240 OFF RAMP	FROM I-240 TO SR 2244	200.0									200		1,500	1		200	400	 	 		<u> </u>
10 I-240 ON RAMP	FROM US 70/74A TO I-240			<u> </u>					-				2,807	0.58							
11 I-240 OFF RAMP	FROM I-240 TO US 70 ON RAMP							<u> </u>			-		2,178	0.45					 		
12 US 70 ON RAMP	FROM I-240 OFF RAMP TO US 70												726	0.15				-			
13 US 70 OFF RAMP	FROM US 70 TO I-240 ON RAMP	300.0	100.0				1		<u> </u>	<u> </u>	400		101	 				<u> </u>			
14 I-240 ON RAMP	FROM US 70 OFF RAMP TO I-240				4		1		<u> </u>	 	400		194	0.04				 	ļ		
		1,362.5	50.0		1			 			1,413	<u> </u>	339	0.07					<u> </u>		
	OM US 70 OFF RAMP TO US 70 ON RAMP	-											ļ	ļ		400	800	<u> </u>			
17 I-240 ON RAMP	OM US 70 OFF RAMP TO US 70 ON RAMP	000.5											<u> </u>			600	1,200		 	ļ	
	FROM US 70 TO 1-240	662.5					11		 		663		1,694	0.35				<u> </u>	ļ		<u> </u>
18 US 70 ON RAMP	FROM I-240 OFF RAMP TO US 70	437.5		-	1						438	 	484	0.10				ļ			
19 I-240 OFF RAMP	FROM I-240 TO US 70 ON RAMP	1,362.5					11	ļ	ļ		1,363		726	0.15		400	800		ļ		
	OM US 70 OFF RAMP TO I-240 ON RAMP	 		ļi									 	<u> </u>				ļ			
	ROM I-240 ON RAMP TO I-240 ON RAMP	ļ							<u> </u>				ļ	ļ		400	800				ļ
22 I-240 OFF RAMP	FROM I-240 TO SR 3238	300.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		1				ļ		300		871	0.18	11	200	400				
23 I-240 ON RAMP	FROM SR 3238 TO I-240	ļ											194	0.04							
24 US 74A EAST	FROM I-240 TO BEGIN CONC	175.0					11		ļ		175	ļ	581	0.12							
25 I-240 ON RAMP	FROM US 74A TO I-240 ON RAMP												242	0.05							
26 I-240 OFF RAMP	FROM I-240 TO US 74A														1	400	800				
27 1-240 ON RAMP	FROM US 74A (END CONC.) TO I-240	250.0			1		1				250		1,646	0.34							
28 I-240 EBL FRC	DM BRIDGE 322 TO 0.49 MILES EAST (END CONC.)																				
FROM	0.49 MILES EAST (END CONC) OF BRIDGE										<u> </u>	 		 					<u> </u>		
29 I-240 EBL FROM	322 TO US 70 (CHARLOTTE STREET) US 70 (CHARLOTTE STREET) TO 1.03 MILES		<u></u>						 					 				ļ			<u> </u>
30 I-240 WBL	WEST (BEG CONC)											<u> </u>									
31 I-240 WBL	M 1.03 MILES WEST OF US 70 (CHARLOTTE STREET) BEG CONC TO BRIDGE 323																				
32 I-240 OFF RAMP	FROM I-240 TO I-240 OFF RAMP												†								
33 I-240 OFF RAMP	FROM I-240 TO END CONC.								<u> </u>		 	 						 			
	ROM END OF CONC TO I-240 OFF RAMP													 							
35 I-240 ON RAMP	FROM BEG CONC. TO I-240		***************************************						<u> </u>		-										
36 I-240 OFF RAMP	FROM I-240 TO I-240 OFF RAMP													<u> </u>					 		
37 I-240 ON RAMP	FROM BEG CONC TO I-240								<u> </u>				 	<u> </u>				 			
 	ROM I-240 ON RAMP TO END OF CONC	 		 					 			 	 	<u> </u>							-
39 I-240 ON RAMP	FROM I-240 ON RAMP TO I-240			 					 	<u> </u>	 	 		 							ļ
40 I-240 ON RAMP	FROM BRIDGE 1 TO I-240 ON RAMP								 		 			 				<u> </u>	 		_
													 	ļ				ļ		ļ	
41 US 19/23 OFF RAMP FI	ROM BRIDGE 1 TO US 19/23 OFF RAMP			-					 		<u> </u>			<u> </u>				 	 		
1 1 1	FROM I-240 TO HAYWOOD STREET			-					_		ļ	<u> </u>	 	 	1	400	800	ļ			
	FROM HAYWOOD STREET TO 1-240								 			<u> </u>	ļ	 					ļ		ļ
	ROM I-240 TO US 25 (MERRIMON AVE.)			 					-			ļ		ļ	1	400	800		ļ		
	ROM US 25 (MERRIMON AVE.) TO I-240	-							 				ļ								
	M SR 1781 (BROADWAY STREET) TO I-240			ļl							ļ										
47 I-240 OFF RAMP	FROM I-240 TO CHERRY STREET	 						ļ	 		ļ		ļ								
48 I-240 ON RAMP	FROM MONTFORD AVE TO I-240												 								
	DM I-240 TO US 70 (CHARLOTTE STREET)								ļ						11	400	800				
50 I-240 ON RAMP FRO	DM US 70 (CHARLOTTE STREET) TO I-240	47.555	480.0					<u> </u>	ļ				<u> </u>								
OR FROM NO. 1-0138 (402/9.3.811)		17,500.0	150.0	10	13	3	19	11	20	6	18,200	1	53,483	11.05	6	4,800	9,600	240	16,480	183	12
T		FROM US 70 (CHARLOTTE STREET) TO I-240	FROM US 70 (CHARLOTTE STREET) TO I-240 17,500.0	FROM US 70 (CHARLOTTE STREET) TO I-240 17,500.0 150.0	FROM US 70 (CHARLOTTE STREET) TO I-240	FROM US 70 (CHARLOTTE STREET) TO I-240 17,500.0 150.0 10 13	FROM US 70 (CHARLOTTE STREET) TO I-240 17,500.0 150.0 10 13 3	FROM US 70 (CHARLOTTE STREET) TO I-240 17,500.0 150.0 10 13 3 19	FROM US 70 (CHARLOTTE STREET) TO I-240 17,500.0 150.0 10 13 3 19 11	FROM US 70 (CHARLOTTE STREET) TO I-240 17,500.0 150.0 10 13 3 19 11 20	FROM US 70 (CHARLOTTE STREET) TO I-240	FROM US 70 (CHARLOTTE STREET) TO I-240	FROM US 70 (CHARLOTTE STREET) TO I-240	FROM US 70 (CHARLOTTE STREET) TO I-240	FROM US 70 (CHARLOTTE STREET) TO I-240	FROM US 70 (CHARLOTTE STREET) TO I-240	FROM US 70 (CHARLOTTE STREET) TO I-240	FROM US 70 (CHARLOTTE STREET) TO I-240	FROM US 70 (CHARLOTTE STREET) TO I-240	FROM US 70 (CHARLOTTE STREET) TO I-240	FROM US 70 (CHARLOTTE STREET) TO 1-240 17,500.0 150.0 10 13 3 19 11 20 6 18,200 1 53,483 11.05 6 4,800 9,600 240 16,480 183

THERMOPLASTIC AND PAINT QUANTITIES

				T	4405000000-F	= 4415000000	N 4420000000	N 4430000000	F 4480000000	N 4688000000	F 469000000	F 400500000 F	1400700000 F	4700000000 F	4702000000-E	4740000000 E	47	724000000				470F0000	NA F		4810000	000-F 481500	000-E 482000000	E 483E000000	4840	OOOOOO N			49.45000000 N		Tanananana N	400000000
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	PORTABLE	FLASHING	CHANGEABL	L DRUMS	TRUCK MT	D. 6"X 90 M 6" X WHITE YEL THERMO THE	90 M 6"X 120 I	8" X 90 M	8" X 120 M	12" X 90 M	12" X 120 M	24" X 120 M	THERMO	THERMO	THERMO 1	THERMO	THERMO	THERMO T	HERMO THER	MO THERMO	4810000 4" WHITE	4" 6	8"	24"	PAINT F	PAINT PA	INT PAINT	PAINT F	PAINT PAINT	T PAINT PAINT		SNOW
		1 1			WORK ZONE	ARROW PANELS,	E MESSAGE	:	IMPACT	WHITE YEL	LOW WHITE	YELLOW	WHITE	WHITE	WHITE	WHITE	MSG	MSG	MSG	MERGE	RT	LT S	R< STR	STR & RT	WHITE	ELLOW WI	TE WHITE	WHITE	MSG	MSG MS	SG MERG	E RT	LT STR 8	& STR STR&	RAISED	PLOWABLE
					SIGN	TYPE C	SIGN	1	UATOR (6	I THERMO I THE	I HERMIC	Inermo	THERMO	Incimo	THERMO	THERMO	120 M	120 M	120 M	90 M	90 M	90 M	90 M 90 N	M 90 M	PAINI	PAINT PA	NT PAINT	PAINT	ONLY	EXIT 250	MFT ARRO	V ARROW AR	ARRON	ARROW RT	PAVEMENT W MARKERS	MARKERS
						1	1		MPH)			1					1		i 1	- 1	1	1		- 1	1 1		1			ı		1 .1	1	1 1		
NO I-5139		NO		FROM US 70 (CHARLOTTE ST.) TO	SF	EA	EA	EA	EA	LF	F LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA EA	EA	LF	LF L	F LF	LF	EA	EA E	A EA	EA	EA EA	EA EA	EA	EA
(45279.3.ST1)	Buncomb	1 1	I-240 EBL	BRIDGE 504	576	4	2	1,000	4	19,430 19	430 10,146									. 6					29,576	19,430			1 1		6				'	499
				FROM BRIDGE 504 TO I-40 (END						3,854 3,	354 984														4.818	3.854									1	
		12	I-240 EBL	CONC) FROM I-40 (BEGIN CONC) TO	 	 		 	-	T	354 964		 	 											4,818	3,854			+			+			10	48
		3	I-240 WBL	BRIDGE 507				<u> </u>		3,082 3,	62 766		ļ	ļ											3,828	3,062									'	38
1			I-240 WBL	FROM BRIDGE 507 TO US 70 (CHARLOTTE ST.)			1			19,536 19	536 8.386	İ					12	4	6	12	7			1	27,922	19.536		1	12	4 6	R 12	7				408
				FROM EAST WOODFIN ST. TO I-										500											999				 		- 	1			1	700
ļ		5 1	-240 ON RAMP	240 FROM I-240 TO US 70 (CHARLOTTE	 			 	-		99 200		 	500	-										999	799	500					+				35
		6 1-	240 OFF RAMP	ST.)		<u> </u>				1,085 1,	085 111		<u> </u>	600	72	36					2	5	2		1,196	1,085	600					2	5 2			36
		7 1	-240 ON RAMP	FROM SR 2244 TO I-240						1,540 1,	540			800						3					1,540	1,540	800				3					40
		8 1-	240 OFF RAMP	FROM I-240 TO US 70/74A		1				1,642 1,	342 311			500		24					3		3		1,953	1,642	500					3	3			41
		9 1-	240 OFF RAMP	FROM I-240 TO SR 2244						2,810 2,	310 484			1,000											3,294	2,810	1,000					T			7	77
		10 1	-240 ON RAMP	FROM US 70/74A TO 1-240						2,261 2,	261 190		1	600						3					2,451	2,261	600				3				1	40
			-240 OFF RAMP							1,255 1,	255 624			600		48					6		6		1,879	1,255	600					6		6	1	68
				FROM I-240 OFF RAMP TO US 70		1					92 330					24					2		3 2	1	1,122	792						2	1	2 1	1	22
				FROM US 70 TO I-240 ON RAMP		1			1		86 32										2		2		698	666						2		2	+	- 22
				FROM US 70 OFF RAMP TO 1-240				1	1		089			550												1.089	550		1			+			-	20
				FROM US 70 OFF RAMP TO US 70 ON RAMP																					1			1	 			+		1-1-	+	
		15	US 70 RAMP	ON RAMP FROM US 70 OFF RAMP TO US 70		 	_	-		368 3	88 123		<u> </u>	ļ		28						2	2		491	368						++	2	2	'	- 6
		16	US 70 RAMP	ON RAMP						368 3	88 184					36						2	4		552	368							2	4	'	9
		17 1	1-240 ON RAMP	FROM US 70 TO 1-240						2,600 2,	800 850														3,250	2,600										33
				FROM I-240 OFF RAMP TO US 70							560 240									3					1	1,560					3					17
		19 I-	-240 OFF RAMP	FROM I-240 TO US 70 ON RAMP						1,123 1,	123 66			750		20					2		2		1,189	1,123	750					2		2	1	40
		Tan I.	I-240 ON RAMP	FROM US 70 OFF RAMP TO I-240						288 2		300													288	288									1	
			1-240 ON RAMP	ON RAMP FROM I-240 ON RAMP TO I-240 ON	1	 	-	 			38	300	 	 	 											288		 	++						+	
			S 70 OFF RAMP	RAMP	ļ	-					180		ļ	ļ		24									1,220	1,040										8
			-240 OFF RAMP		_	ļ					363 189		<u> </u>	800		50					3	3	3		+	1,863	800		<u> </u>			3	3 3			48
		23	I-240 ON RAMP	FROM SR 3238 TO I-240	ļ			ļ		1,140 1,	140		ļ	300											1,140	1,140	300									15
		24	US 74A EAST	FROM I-240 TO BEGIN CONC						734	34 152			550											886	734	550								<u>'</u>	35
		25 1	I-240 ON RAMP	FROM US 74A TO I-240 ON RAMP						1,057 1,	52			350											1,109	1,057	350									31
		26 I-	-240 OFF RAMP				1			1,870 1,	370 183	1		700		48	4				2	2	3		2,053	1,870	700		4			2	2 3		1	42
		27	I-240 ON RAMP	FROM US 74A (END CONC.) TO I- 240						1,721 1	721 430			800											2,151	1.721	800					T			7	
		12/		FROM BRIDGE 322 0.49 MILES	1	 		 	-				 	1											T	-111-1	800	+	 			+		+	+	62
		28	I-240 EBL	EAST FROM 0.49 MILES EAST OF	-	-				2,599 2	599 1,241		ļ	 			ļl								3,840	2,599										58
		29	1-240 EBL	BRIDGE 322 TO US 70						5,480 5	460 2,366			520			8	8							7,826	5,460	520		8	8					'	100
		30	1-240 WBL	FROM US 70 (CHARLOTTE STREET) TO 1.03 MILES WEST						5,460 5	460 1,778														7,238	5,460									1	
 	 	1 30 1	1-240 VVDL	FROM 1.03 MILES WEST OF US 70	d	 		 		3,400 3,	1,778		<u> </u>	 	 										1,236	5,460		+	+			+			+	82
			1.040.14/01	(CHARLOTTE STREET) TO BRIDGE	E)					2,451 2	454			ł							- 1			İ	3,407	2.451			1 1	ŀ					'	
		31	I-240 WBL	323	 	 		+			451 956 40		ļ	 	 														 -		_	+			+	48
				FROM I-240 TO I-240 OFF RAMP		·	- 	+						350	 				 							840	350		+				-+-		+	18
-			-240 OFF RAMP US 19/23 OFF	FROM I-240 TO END CONC. FROM END OF CONC TO I-240 OF	F	 				1,425 1.	425 356			550		24	 								1,781	1,425	550	24	++							45
		34	RAMP	RAMP							30			ļ		18									30	30		18								
		35	I-240 ON RAMP	FROM BEG CONC. TO I-240	<u> </u>	<u> </u>				200	00		<u> </u>	300											200	200	300									16
				FROM I-240 TO I-240 OFF RAMP						506	08 32		<u> </u>	300	<u> </u>	ļ	LI								538	506	300									18
	<u> </u>	37	I-240 ON RAMP US 19/23 ON	FROM BEG CONC TO I-240 FROM I-240 ON RAMP TO END OF		1				1,327 1	327 144			300											1,471	1,327	300									22
		38	US 19/23 ON RAMP	FROM I-240 ON RAMP TO END OF CONC	1		1			60	30			350						1	T				60	60	350									10
		30	I-240 ON RAMP		1	1	—	1	1		50		†	300	†	 									250	250	300	+	+-+		_	+	-		+	<u>"</u>
	<u> </u>			FROM BRIDGE 1 TO I-240 ON	 	1		 	 				 	1 300					 						1		300	 	 			+-+		+	+	15
ļ		40	I-240 ON RAMP	RAMP FROM BRIDGE 1 TO US 19/23 OFF						160	60		 	 	ļ	ļ	├	ļ							160	160			 -						 '	
		41	RAMP	RAMP				1		160	60														160	160			<u>l</u>							
		42	-240 OFF RAMP	FROM I-240 TO HAYWOOD						860	60 38		18	440		24					, 1		,		898	880 4	8 440	24							1	24
		1 1		FROM HAYWOOD STREET TO I-	1	1	1	1	+	1 000			 **	1 -140	 	 			 -						+		440	24	+-+			+		++-	+'	
		43	I-240 ON RAMP	240 FROM I-240 TO US 25 (MERRIMON		 				1,108 1	108		40	460	 	ļ		ļ							1,108	1,108 4	0 460					++			 '	23
L	<u></u>	44 1	-240 OFF RAMP	AVE.)	1					726	26 82		48	360		24	<u> </u>				2	2			808	726	8 380	24				2	2		′	18
			I-240 ON RAMP	FROM US 25 (MERRIMON AVE.) TO	٩					1,355 1	355 50			400											1,405	1.355	4	1				T			T	
	 	\neg		FROM SR 1781 (BROADWAY	1	 		 	+				†	1	 	 									1		400	 	++			+			+'	30
			I-240 ON RAMP	STREET) TO I-240	-	-					03			340	<u> </u>	48									803	803	340	48							 '	17
-	ļ	47 1	-240 OFF RAMP	FROM I-240 TO CHERRY STREET	1						85			422	ļ										285	285	422									21
		48	1-240 ON RAMP	FROM MONTFORD AVE TO I-240						1,213 1	213 95			400	<u> </u>	75									1,308	1,213	400	75	<u> </u>						 '	20
		49 1	-240 OFF RAMP	FROM I-240 TO US 70 (CHARLOTT STREET)	1					800	00 95		1	500		114	1 1					2		2	895	800	500	114					2	,	1 7	30
				FROM US 70 (CHARLOTTE		1																							1			1		1-1-	1	
TOTAL	D DCC ::		1-240 ON RAMP	STREET) TO I-240	576	4	2	1,000	4	104,370 10	39 1,370 32.226	300	136	260 15.952	72	765	24	12	6	27	32	18	15 18	3	739 136.595	739 104,370 1	260 15.952	100	24	12	6 27	32	18 15	18 3	10	13 2,365
10TAL FO	K PKOJ N	iU. I-5139 ((45279.3.ST1)							208,740								42				113			240,8	65	10,002			42			113			2,300
				T	576	1 4	1 3	1,000	4	104 370 40	370 30 000	300	120	15.052	79	765	24	12		27	30 1	18	15 40		138 EOE	104 370	8 45000	1 407	1 24 1	42 1	4 1 2-	7 20 1	40 1 45	149 1 2		2,365
1	GRAN	D TOTAL			1 3/8	4		1,000		208.740	32,226	300	130	13,832	1 12	, 65		42	<u> </u>		<u> </u>	113	.5 1 18		240.9	165	15,852	421	24	42	27		113	18 3	10	2,365





"Stretch" Operation

Spe	d Limit		D1	D2					
mph	(km/hr)	ft	(m)	ft	(m)				
40	(64)	250	(75)	80	(25)				
45	(72)	300	(90)	90	(27)				
50	(80)	355	(110)	100	(30)				
55	(88)	420	(130)	110	(35)				

L2 = 6ft X 6ft (1.8m X 1.8m) Wired in series

L1 = 6ft X 6ft

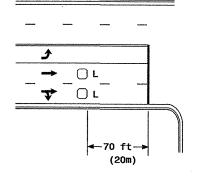
(1.8m X 1.8m)

Wired in series

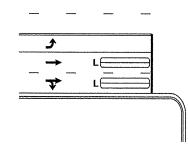
Low Speed Detection [<35 mph (56 km/hr)]

PROJECT REFERENCE NO. SHEET NO. SIG 1

45279.3.ST1 (I-5139)



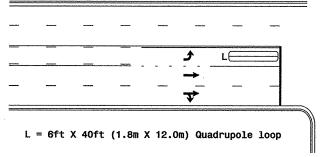
 $L = 6ft \times 6ft (1.8m \times 1.8m)$ Wired in series



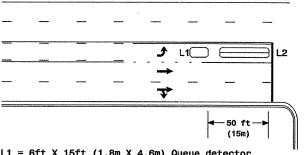
 $L = 6ft \times 40ft (1.8m \times 12.0m)$ Quadrupole loop, wired separately

Left Turn Lane Detection

OR

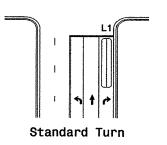


OR



L1 = 6ft X 15ft (1.8m X 4.6m) Queue detector L2 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

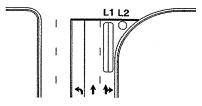
Queue Loop Detection

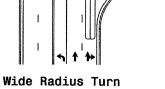


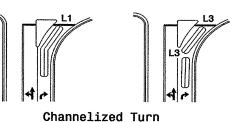
Right Turn Lane Detection

L1 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop L2 = 6ft X 6ft (1.8m X 1.8m) [Minimum] Presence loop Wired separately

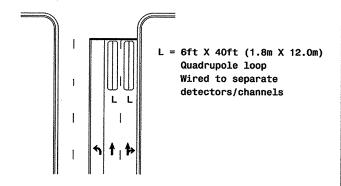
L3 = 6ft X 20ft (1.8m X 6.0m) Quadrupole loop Wired in series





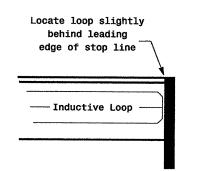


Side Street Detection



Presence Loop Detection

Presence Loop Placement at Stop Lines



Note: Loop may be located in advance of stop line when stop line is greater than 15' (4.5m) from edge of intersecting roadway; or, when loop detects a permissive or protected/permissive left turn.

Single 6' X 6' (1.8m X 1.8m) loop (wired separately):

(ou orputue-j,								
Length of Lead-in ft (m)	Number of Turns							
< 250 (75)	3							
250-375 (75-115)	4							
375-525 (115-160)	5							
> 525 (160)	6							

Recommended Number of Turns

Quadrupole loops: Use 2-4-2 turns

6' X 15' (1.8m X 4.6m) Loops: Lead-in < 150' (45 m), use 2 turns Lead-in > 150' (45 m), use 3 turns



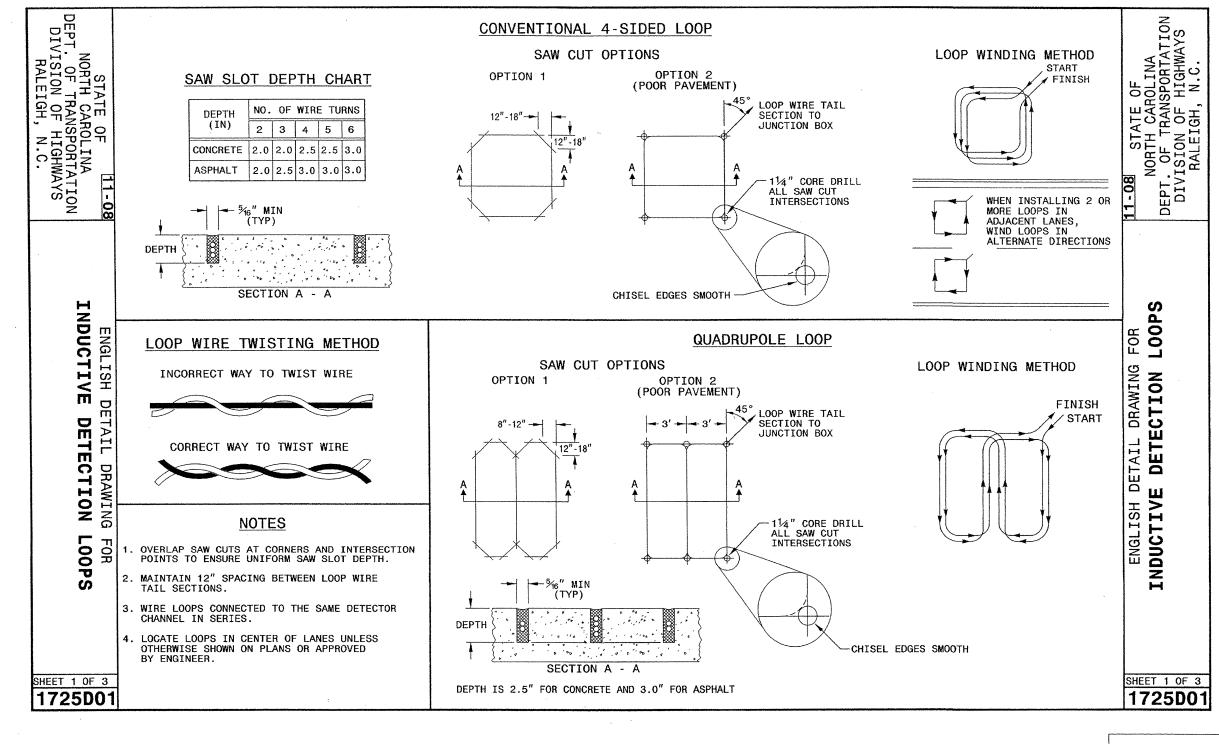
N/A

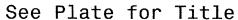
Typical Loop Locations

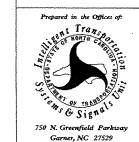
PLAN DATE: June 2006 REVIEWED BY: PREPARED BY: P L Alexander REVIEWED BY: INIT. DATE REVISIONS

V Revise pavement marKings

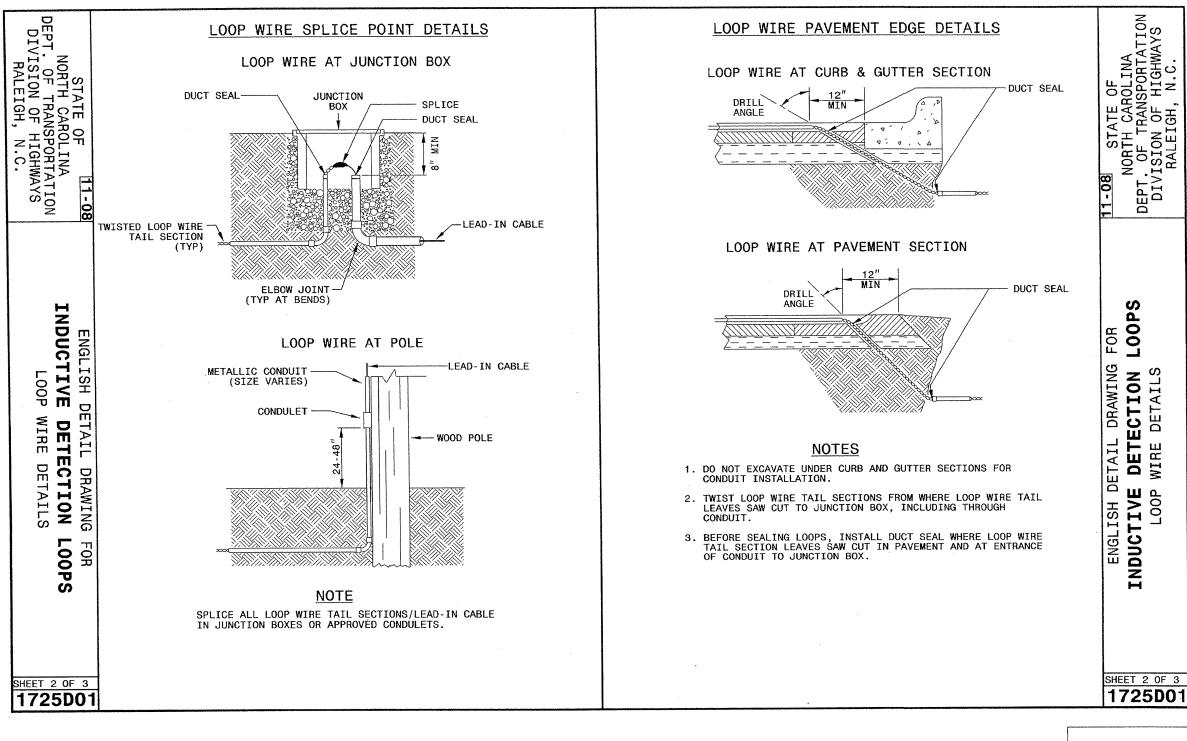


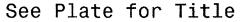






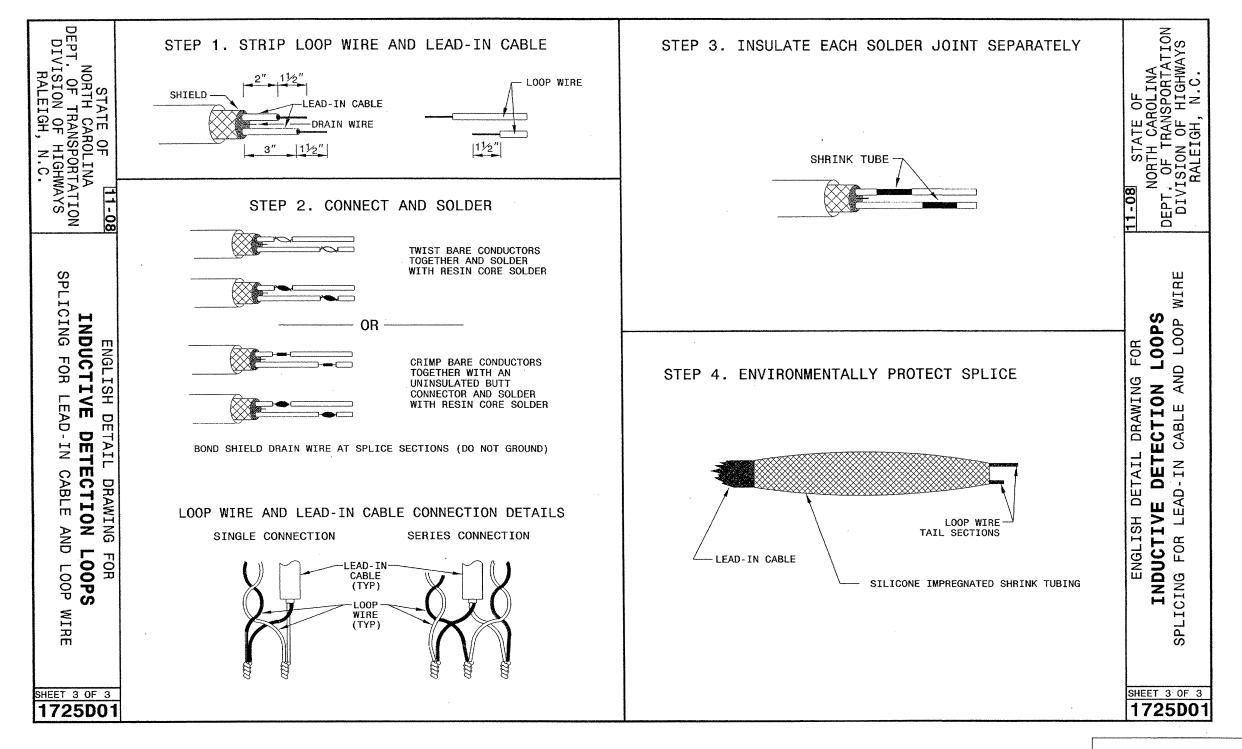


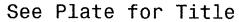




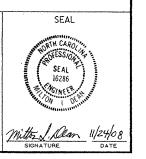


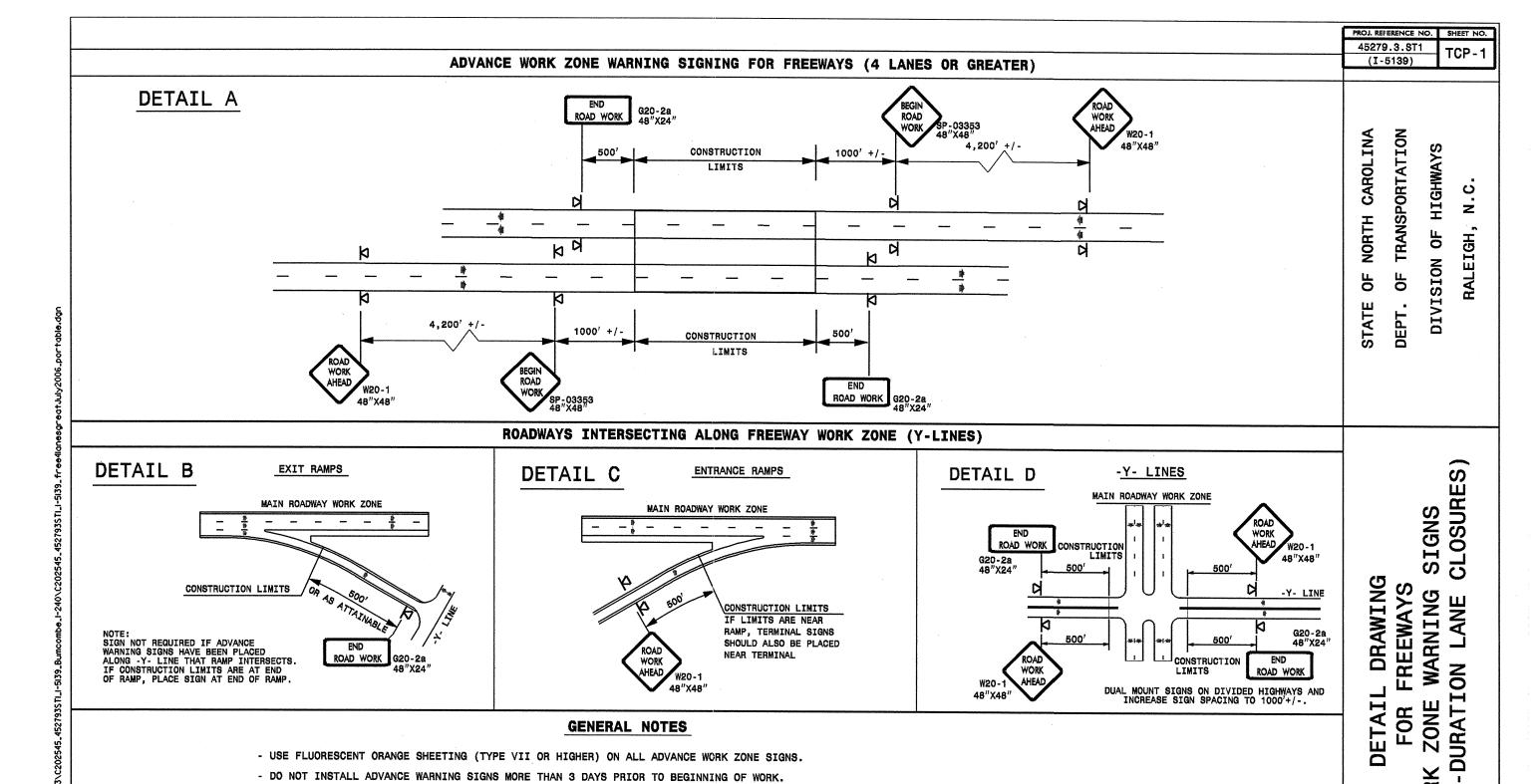






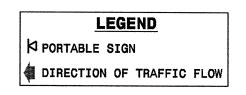






GENERAL NOTES

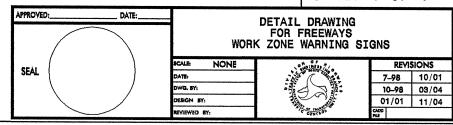
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH 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 MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.



SHEET 1 OF 1

WORK

SHORT



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