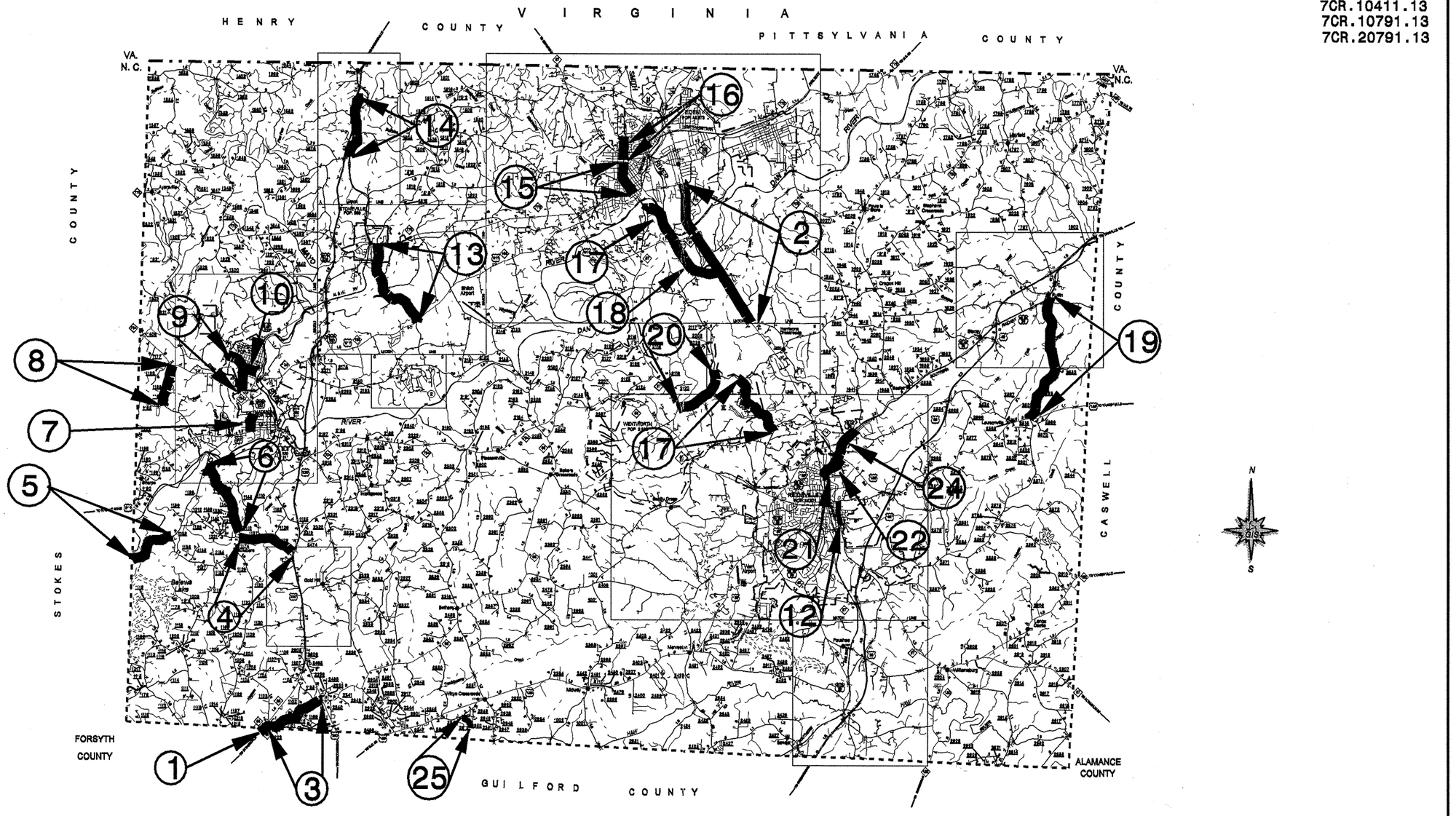
ROCKINGHAM COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
7CR.10411.13, ETC.	1	13

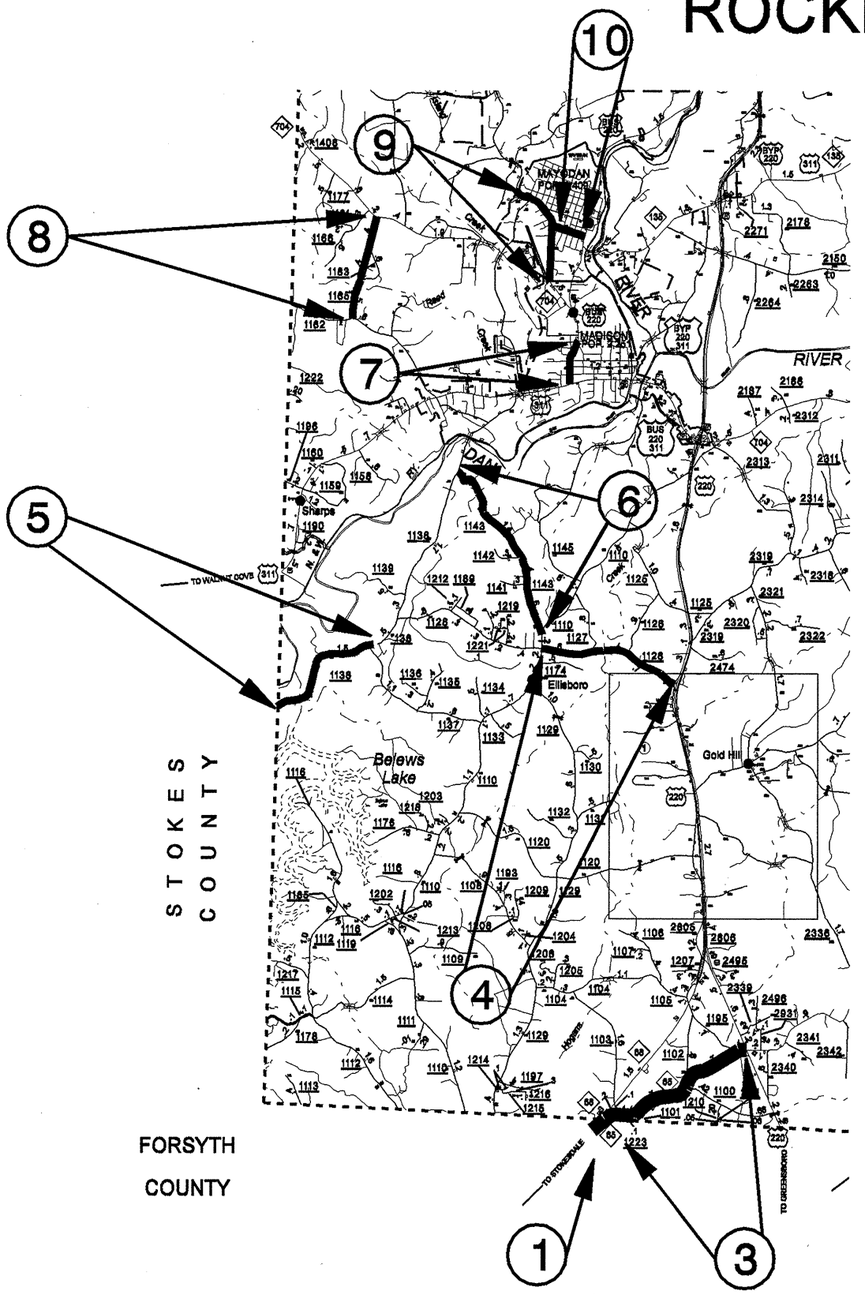
7CR.10411.13
7CR.10791.13
7CR.20791.13

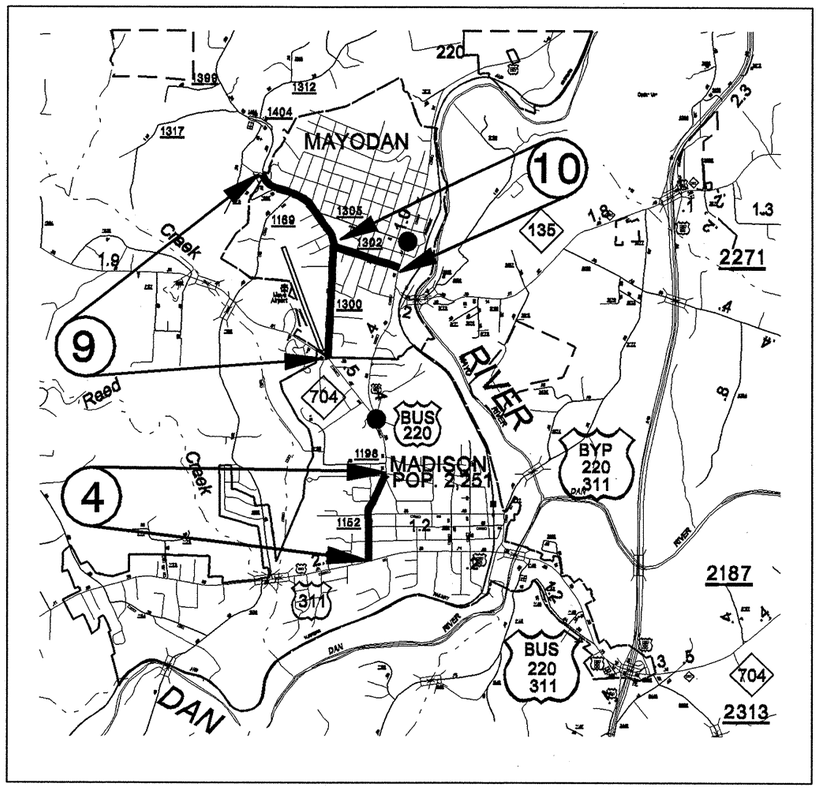


ROCKINGHAM COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
7CR.10411.13, ETC.	2	13

7CR.10411.13
7CR.10791.13
7CR.20791.13

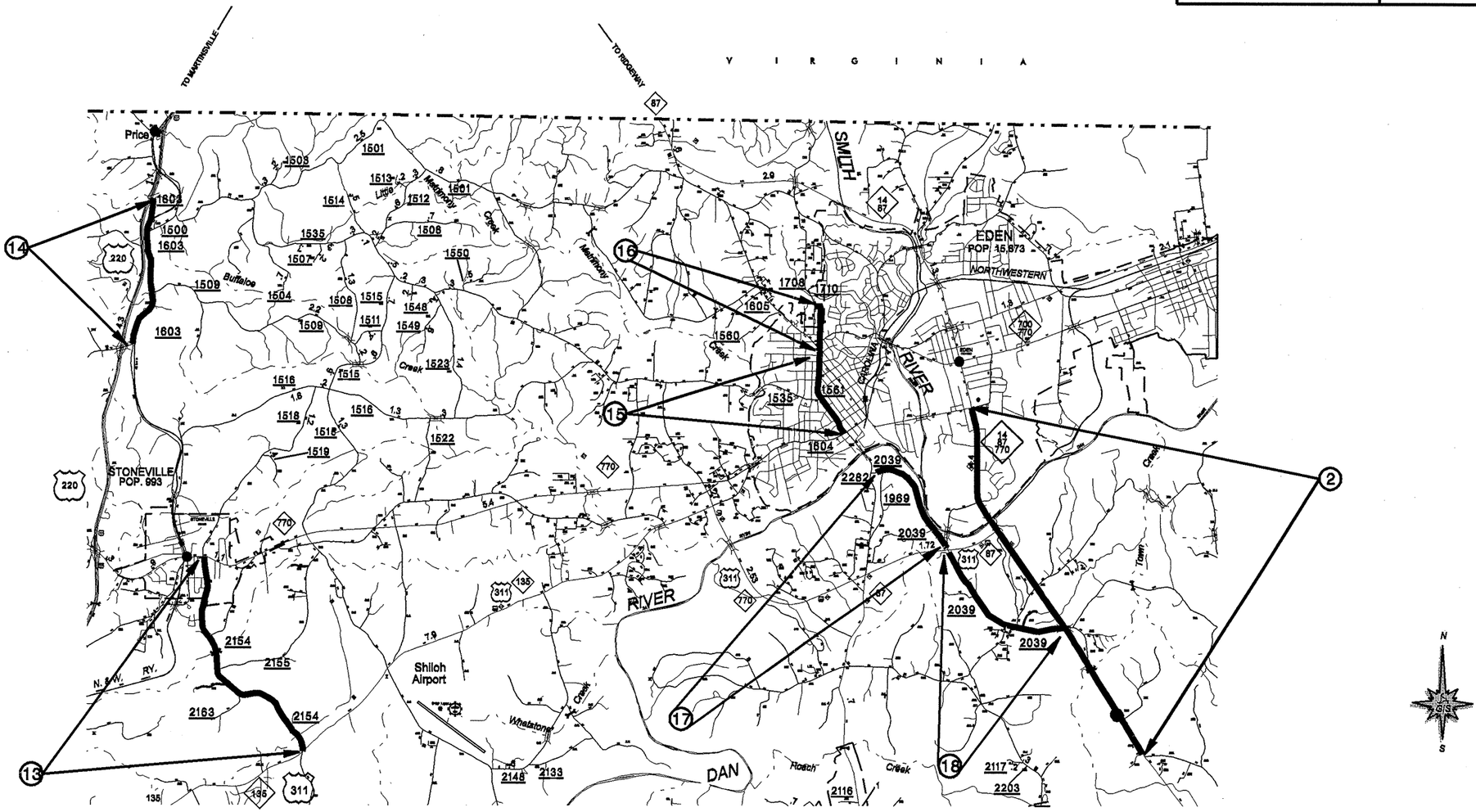




ENLARGED VIEW OF MADISON & MAYODAN

PROJECT NO.	SHEET NO.	TOTAL SHEETS
7CR.10411.13, ETC.	3	13

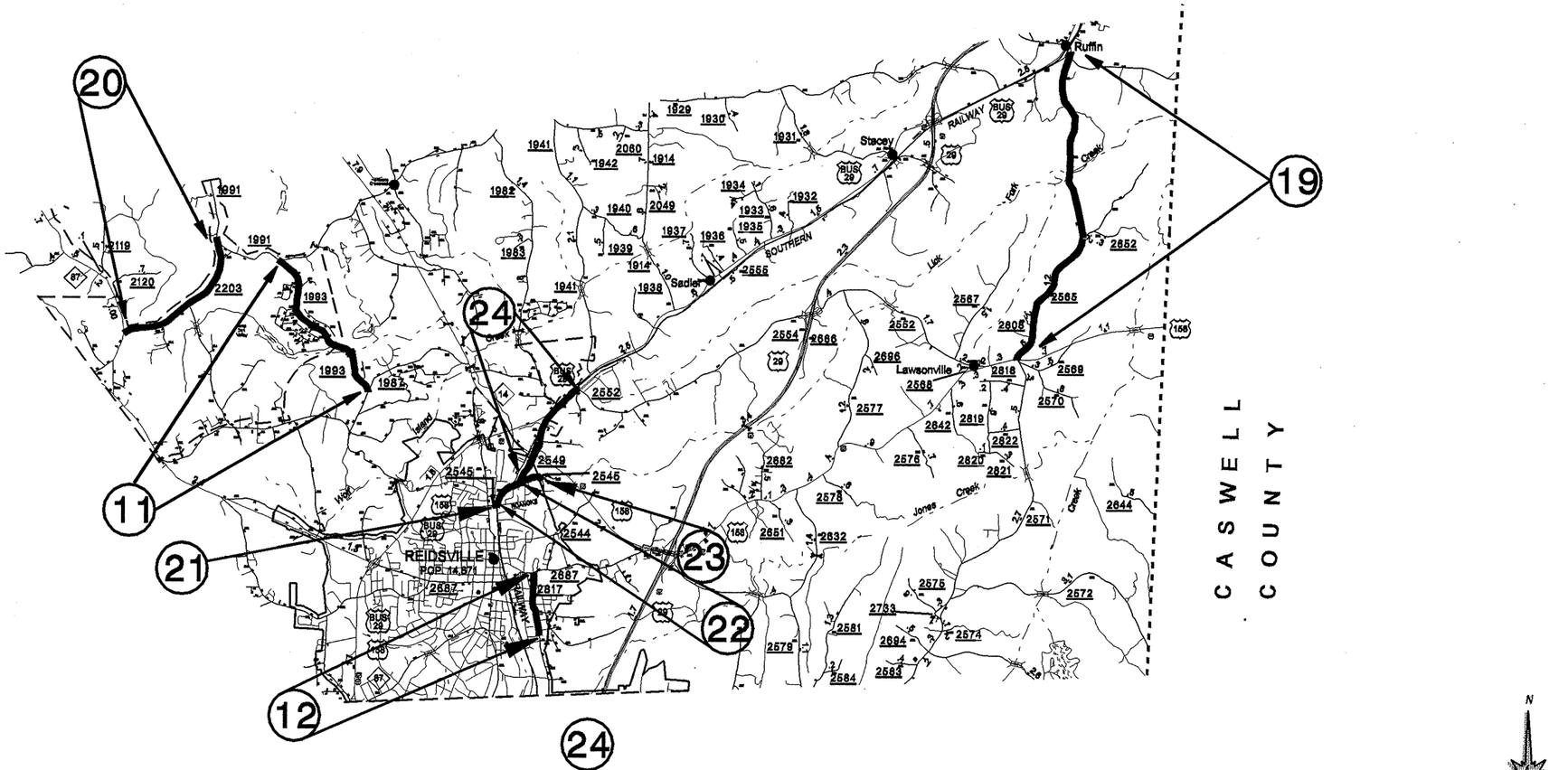
7CR.10411.13
7CR.10791.13
7CR.20791.13



ROCKINGHAM COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
7CR.10411.13, ETC.	4	13

7CR.10411.13
7CR.10791.13
7CR.20791.13



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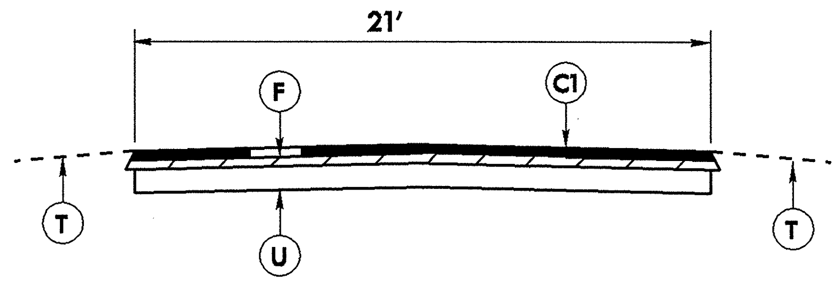
S

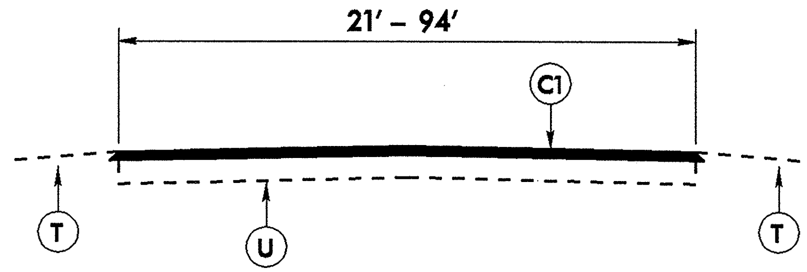
ROCKINGHAM COUNTY

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	7CR.10411.13, ETC	5	13

7CR.10411.13, 7CR.10791.13, 7CR.20791.13



TYPICAL SECTION NO. 1



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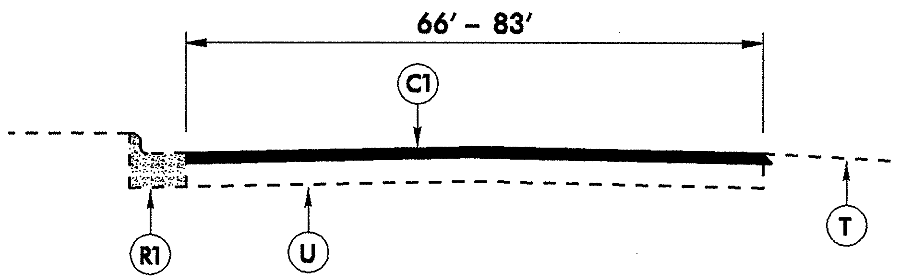

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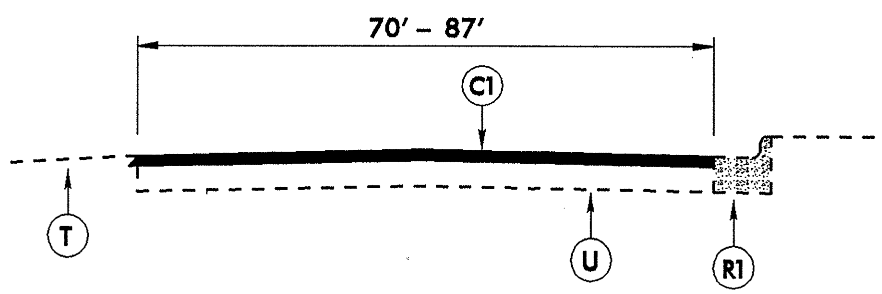
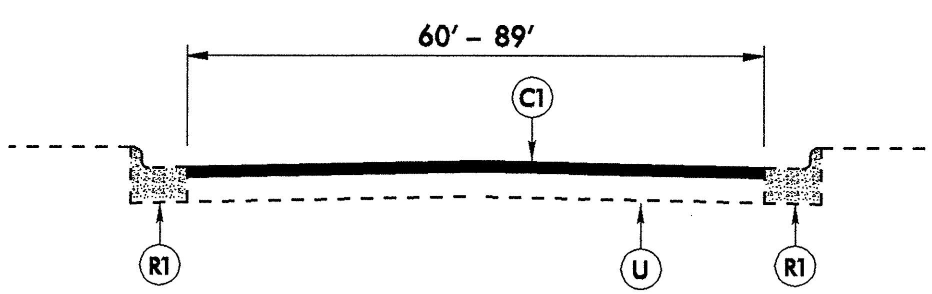
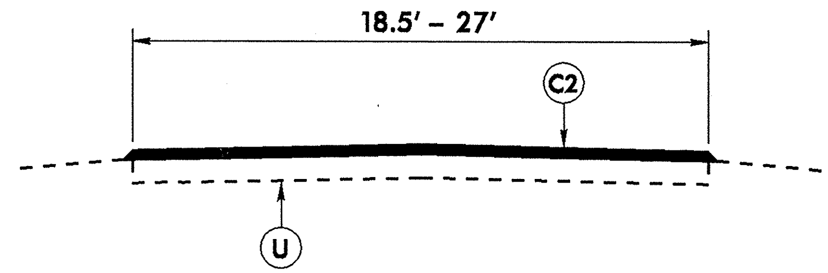


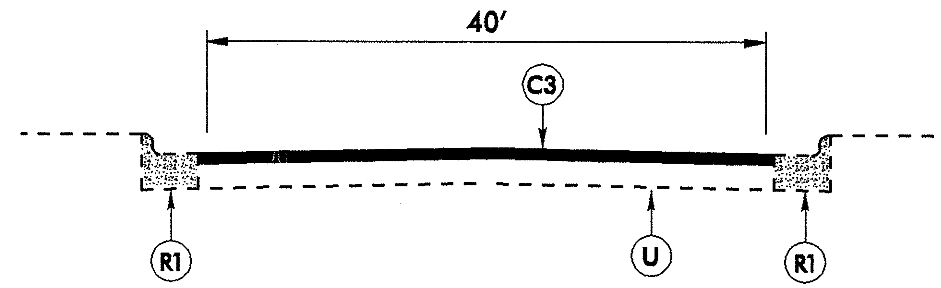
TYPICAL SECTION NO. 4



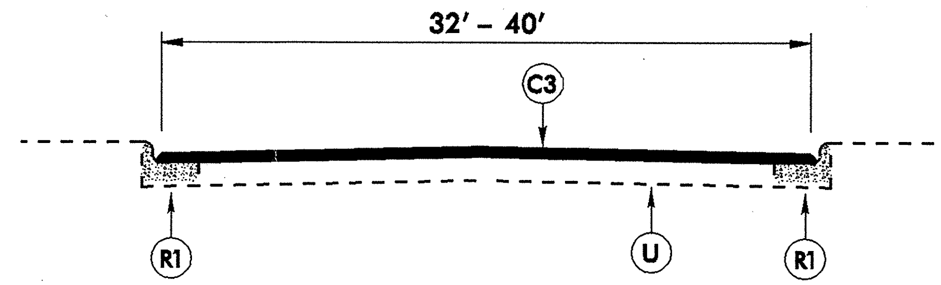
TYPICAL SECTION NO. 5



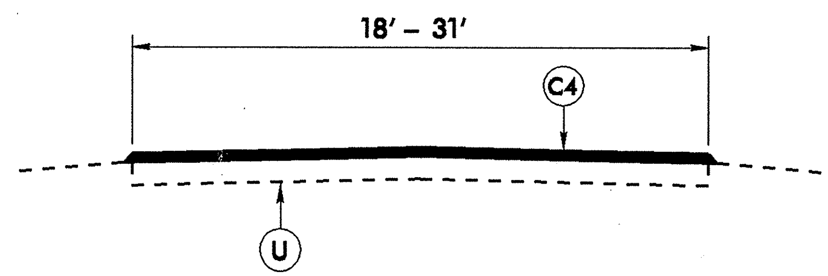
TYPICAL SECTION NO. 6



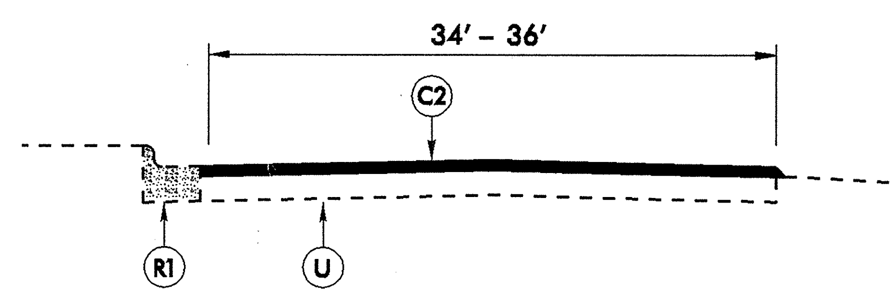
TYPICAL SECTION NO. 7



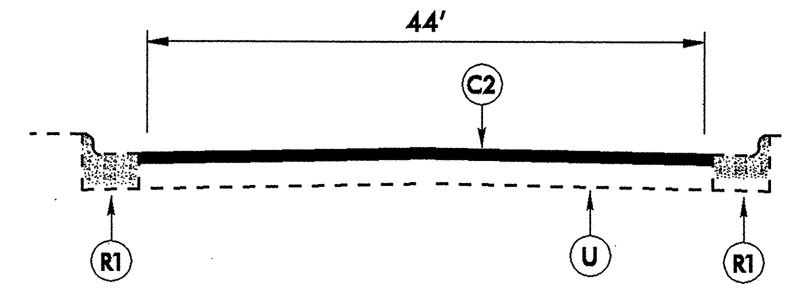
TYPICAL SECTION NO. 8



TYPICAL SECTION NO. 9



TYPICAL SECTION NO. 10



TYPICAL SECTION NO. 11

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1¼″ ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C3	PROP. APPROX. 1¼″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 140 LBS. PER SQ. YD.
C4	PROP. APPROX. 1″ ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
F	MAT COAT, 78M STONE
R1	EXISTING 2′-6″ CURB AND GUTTER OR EXPRESSWAY GUTTER OR VALLEY GUTTER
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT.

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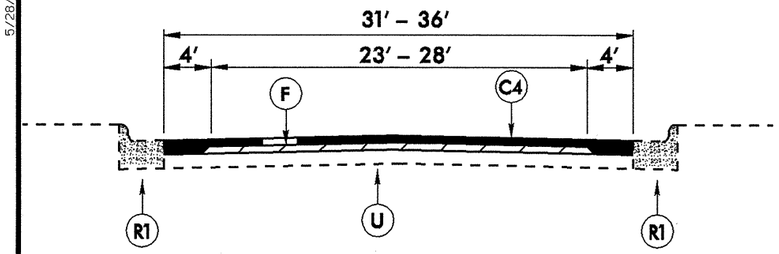
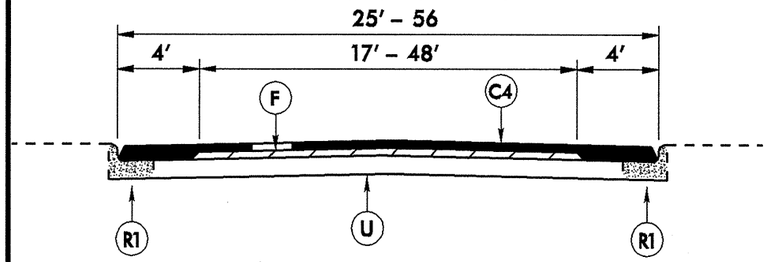
5/28/99

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	7CR.10411.13, ETC	6	13

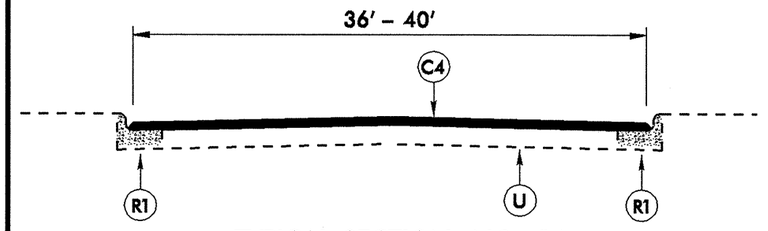
7CR.10411.13, 7CR.10791.13, 7CR.20791.13



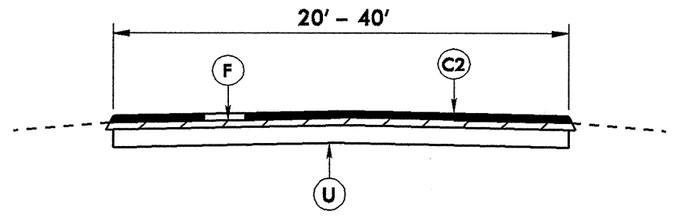
TYPICAL SECTION NO. 12



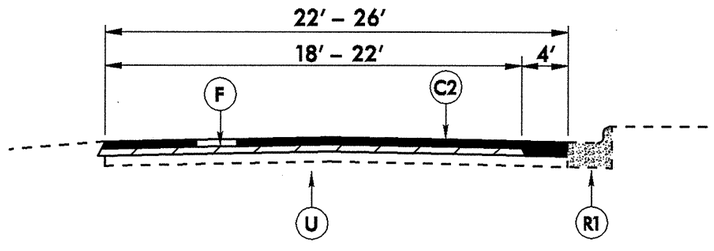
TYPICAL SECTION NO. 13



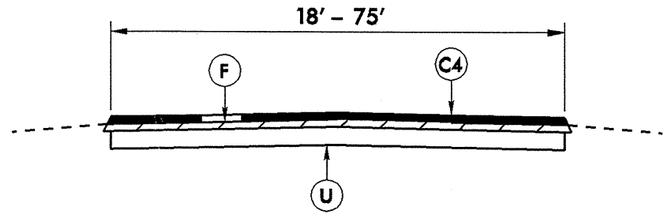
TYPICAL SECTION NO. 14



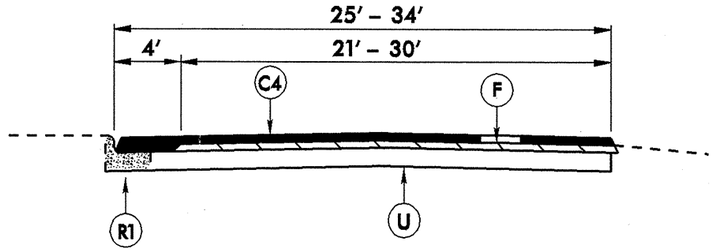
TYPICAL SECTION NO. 15



TYPICAL SECTION NO. 16



TYPICAL SECTION NO. 17



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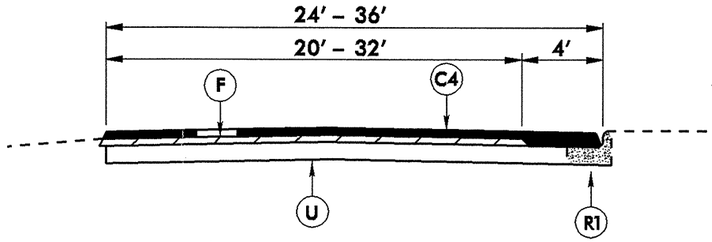

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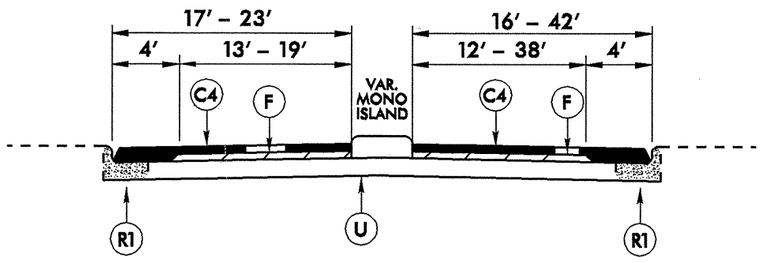
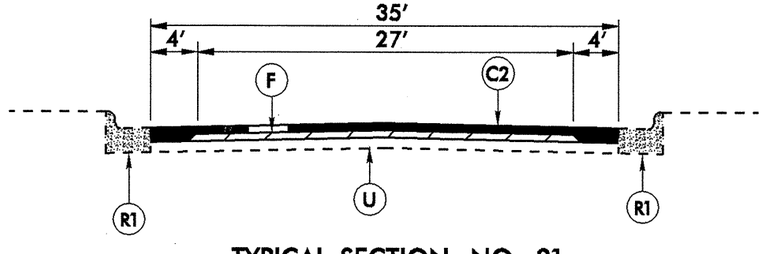


TYPICAL SECTION NO. 20



TYPICAL SECTION NO. 21

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C3	PROP. APPROX. 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 140 LBS. PER SQ. YD.
C4	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
F	MAT COAT, 78M STONE
R1	EXISTING 2′-6" CURB AND GUTTER OR EXPRESSWAY GUTTER OR VALLEY GUTTER
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT.

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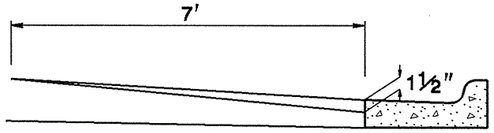
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	7CR.10411.13, ETC	7	13

7CR.10411.13, 7CR.10791.13, 7CR.20791.13

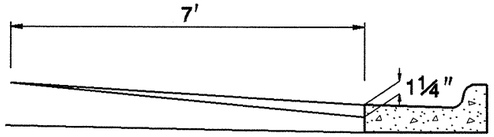
MILLING DETAIL 1



MILL EXISTING ASPHALT PAVEMENT 0-1½" AT LOCATIONS AS DIRECTED BY THE ENGINNER

NOTE:
TO BE USED IN CONJUCTION WITH
TS. NO. 3, 4, & 5 ON MAP 2

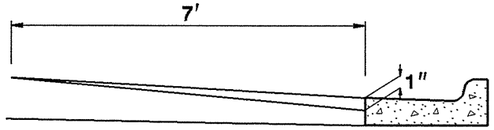
MILLING DETAIL 2



MILL EXISTING ASPHALT PAVEMENT 0-1¼" AT LOCATIONS AS DIRECTED BY THE ENGINNER

NOTE:
TO BE USED IN CONJUCTION WITH
TS. NO. 7 & 8 ON MAP 7
TS. NO. 10 & 11 ON MAP 9
TS. NO. 21 ON MAP 16

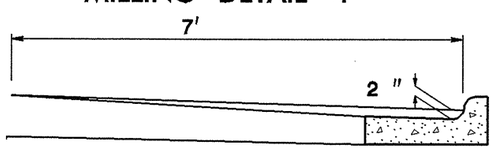
MILLING DETAIL 3



MILL EXISTING ASPHALT PAVEMENT 0-1" AT LOCATIONS AS DIRECTED BY THE ENGINNER

NOTE:
TO BE USED IN CONJUCTION WITH
TS. NO. 12 & 13 ON MAP 10
TS. NO. 14 ON MAP 12
TS. NO. 13, 18, 19 & 20 ON MAP 15
TS. NO. 19 ON MAP 22

MILLING DETAIL 4

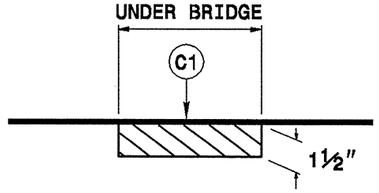


MILL EXISTING ASPHALT PAVEMENT 0-2" AT LOCATIONS AS DIRECTED BY THE ENGINNER

NOTE:
TO BE USED IN CONJUCTION WITH
TS. NO. 12 ON MAP 21

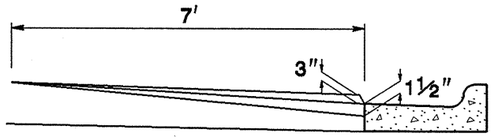
MILLING DETAIL 5

FULL LANE WIDTH
UNDER BRIDGE



MILL EXISTING ASPHALT PAVEMENT 1½" IN DEPTH TO BE USED ON MAP 2

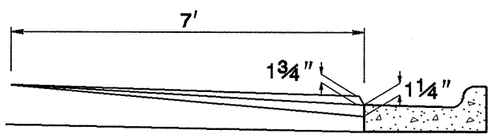
MILLING DETAIL 6



MILL EXISTING ASPHALT PAVEMENT 0-4½" AT LOCATIONS AS DIRECTED BY THE ENGINNER

NOTE:
TO BE USED IN CONJUCTION WITH
TS. NO. 16 ON MAP 13

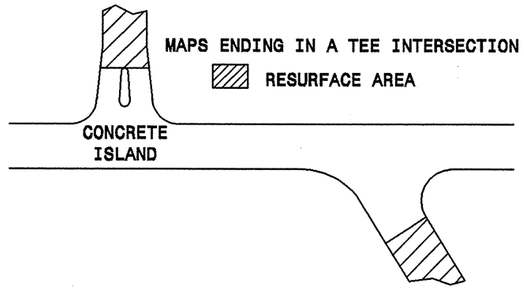
MILLING DETAIL 7



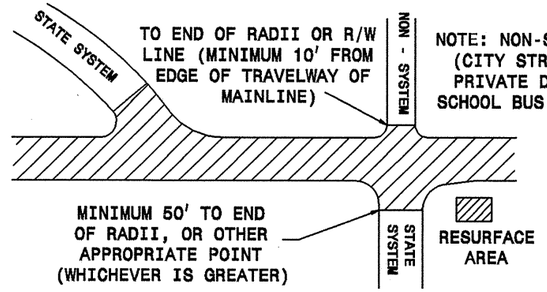
MILL EXISTING ASPHALT PAVEMENT 0-3" AT LOCATIONS AS DIRECTED BY THE ENGINNER

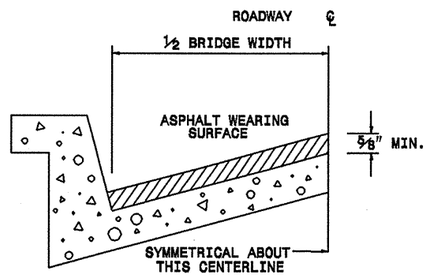
NOTE:
TO BE USED IN CONJUCTION WITH
TS. NO.21 ON MAP 16

PAVING DETAIL 1
MAIN LINE IS NOT BEING RESURFACED



PAVING DETAIL 2
MAIN LINE IS BEING RESURFACED





BRIDGE HALF TYPICAL SECTION

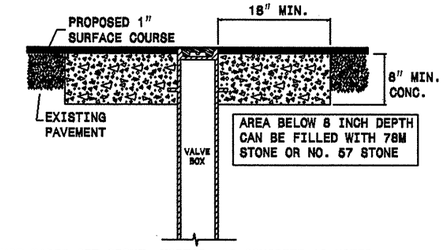
FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN. THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS 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.

NOTES

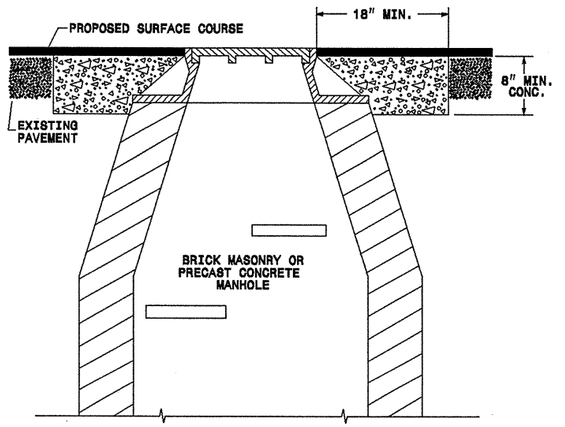
ALL UNPAVED S.R. ROUTES TO BE SURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.
ALL PAVED S.R. ROUTES TO BE RESURFACED TO END OF RADDII, OR AS DIRECTED BY THE ENGINEER. EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES. BRIDGES TO BE RESURFACED AT LOCATIONS AND DEPTH AS DIRECTED BY THE ENGINEER.

STANDARD CONCRETE ENCASEMENT FOR MANHOLE & VALVE CASTINGS IN PAVEMENT

DETAIL DRAWING NO. 858.01

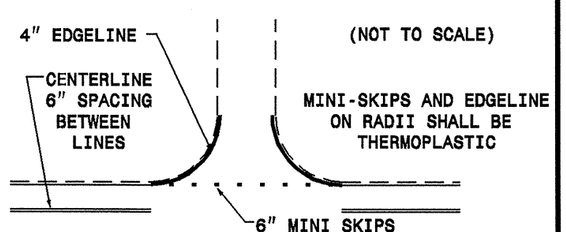


USE RAPID SET GROUT, MORTAR, OR CONCRETE AS NOTED IN PROJECT SPECIAL PROVISIONS. CLASS B CONCRETE MAY BE USED WHEN ADJUSTMENTS ARE NOT IN THE TRAVEL LANE.



NOTES:
1. MORTAR SHALL BE MIXED TO NCDOT SPECIFICATIONS.
2. ALL FAULTY EXISTING BRICKWORK TO BE REMOVED AND REPLACED WITH NEW BRICK MASONRY.
3. EXCAVATION FOR THE ADJUSTMENT SHALL BE SHEER CUT ON ALL SIDES.
4. USE RAPID SET GROUT, MORTAR OR CONCRETE AS NOTED IN PROJECT SPECIAL PROVISIONS. CLASS B CONCRETE MAY BE USED WHEN THE ADJUSTMENTS ARE NOT IN THE TRAVEL LANE.

STRIPING DETAIL
NON-SIGNALIZED/NON-CURB & GUTTER INTERSECTIONS



NOTE: MINI SKIPS SHALL BE PLACED ON A 10' CYCLE, CONTAINING AN 8' SPACE AND 2' SKIP. THE WIDTH OF THE SKIP SHALL BE 6".

PROJECT NO.	SHEET NO.	TOTAL NO.
7CR.10411.13, ETC.	8	13

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	WIDTH	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1½" MILLING	0" TO 1.5" MILLING	0" TO 1.25" MILLING	0" TO 1" MILLING	0" TO 2" MILLING	0" TO 4.5" MILLING	0" TO 3" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	SURFACE COURSE, SF9.5A	PG 64-22 PLANT MIX	AST,MAT COAT 78M	WHEELCHAIR RAMPS	RETROFITTING EXISTING WHEELCHAIR RAMPS	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	SEED & MULCHING	RESIDENTIAL SEEDING	TRENCHING (UNPAVED) (1)(2")	TRENCHING (PAVED) (1)(2")	JUNCTION BOX (STANDARD)	INDUCTIVE LOOP SAW CUT	LEAD-IN CABLE (18-2)	LEAD-IN CABLE (18-4)
						MI	FT	TONS	SMI	SY	SY	SY	SY	SY	SY	SY	SY	TONS	TONS	TONS	SY	EA	EA	EA	EA	AC	AC	LF	LF	EA	LF	LF	LF
7CR.10411.13	Guilford	1	NC 65 WEST	FROM NC 68 TO THE ROCKINGHAM COUNTY LINE	1	0.213	21	7.5	0.21									221.74		13.00	2,624.20					0.10							
TOTAL FOR PROJ NO. 7CR.10411.13						**0.213**		**7.5**	**0.21**									**222.00**		**13.00**	**2,624.20**					**0.10**							
					2	0.06	66	35										195.52		12.00													
					2	0.07	66 - 80											272.25		16.00					1								
					2	0.1	64											316.01		19.00													
					2	0.06	66 - 80											236.22		14.00													
					2	0.08	66											260.69		16.00													
					2	0.03	67 - 79											108.11		6.00													
					3	0.03	77 - 83				124							118.46		7.00													
					3	0.04	70 - 71				156							159.22		10.00													
					2	0.45	65 - 73											1,532.92		92.00													
					4	0.03	71 - 78				39							110.33		7.00													
					5	0.09	76				778							337.63		20.00													
					3	0.02	71 - 78				82							73.55		4.00													
					2	0.05	73 - 77											205.11		12.00													
					2	0.02	71 - 73											71.09		4.00													
					3	0.09	71 - 75				358							324.32		19.00													
					4	0.15	71				595							525.76		32.00													
					4	0.11	73 - 87				467							491.45		29.00													
					2	0.01	89 - 94											75.15		5.00													
					2	0.22	66			249							733	716.90		43.00													
					4	0.01	71 - 75.5				21							36.18		2.00													
					5	0.07	75.5 - 77				605							263.64		16.00													
					3	0.01	66 - 75				32							34.80		2.00													
					2	0.35	66											1,140.52		68.00													
					2	0.05	68 - 78											180.18		11.00													
					2	0.02	78											197.00		12.00													
					2	0.06	68 - 78											216.22		13.00													
					2	0.27	66											879.83		53.00													
7CR.10791.13	Rockingham	2	NC 14	FROM NORTHSIDE OF SR 2037 (HARRISION CROSSROAD) TO SR 2066 (KINGS HIGHWAY)	4	0.06	71				226							210.30		13.00													
					2	0.07	66											228.10		14.00													
					3	0.04	71				145							140.20		8.00													
					5	0.02	75				187							74.04		4.00													
					4	0.04	71				148							140.20		8.00													
					2	0.17	66											553.97		33.00													
					2	0.15	77 - 80										444	661.20		40.00													
					5	0.05	66 - 83				451							203.88		12.00					2	13			100	100	1	2,000	400	400
					5	0.04	64				366							126.40		8.00													
					5	0.03	63 - 78				233							104.41		6.00													
					5	0.04	60 - 64				327							142.46		9.00													
					5	0.03	64 - 73				249							101.46		6.00													
					5	0.07	64 - 73				534							276.73		17.00													
					5	0.38	60				3091							1,145.92		69.00													
					5	0.05	63 - 72				381							166.63		10.00													
					5	0.02	60 - 72				142							85.17		5.00													
					5	0.01	60				115							29.63		2.00													
					5	0.04	64 - 72				334							134.29		8.00													
					5	0.02	60 - 72				140							85.17		5.00													
					5	0.05	60				370							148.15		9.00													
					5	0.05	64 - 73				392							169.09		10.00													
					5	0.05	64 - 73				420							209.09		13.00													
					5	0.12	60 - 64				954							367.38		22.00													
					5	0.03	64 - 72				236							100.72		6.00													
					5	0.05	64 - 72				404							207.86		12.00													
					5	0.05	60				446							148.15		9.00													
					5	0.08	64 - 80				681							284.35		17.00													
					5	0.05	80 - 89				436							208.52		13.00													
TOTAL FOR MAP NO. 2						**4.41**		**35**	**0**	**249**	**14,665**						**1,177**	**15,532.53**		**932.00**					**2**	**14**			**100**	**100**	**1**	**2,000**	**400**	**400**
"	"	3	NC 65	FROM THE GUILFORD COUNTY LINE TO US 220	2	1.97	21	75	1.97									2,170.85		130.00						0.50	0.46								
					2	0.03	21 - 35											41.58		2.00													
TOTAL FOR MAP NO. 3						**2.00**		**75**	**1.97**	**0**	**0**						**0**	**2,212.43**		**132.00**					**0**	**0**	**0.50**	**0.46**	**0**	**0**	**0**			
TOTAL FOR PROJ NO. 7CR.10791.13						**6.41**		**110**	**1.97**	**249**	**14,665**						**1,177**	**17,745.00**		**1,064.00**					**2**	**14**	**0.50**	**0.46**	**100**	**100**	**1**	**2,000**	**400**	**400**

PROJECT NO.	SHEET NO.	TOTAL NO.
7CR.10411.13, ETC.	9	13

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	WIDTH	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1½" MILLING	0" TO 1.5" MILLING	0" TO 1.25" MILLING	0" TO 1" MILLING	0" TO 2" MILLING	0" TO 4.5" MILLING	0" TO 3" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	SURFACE COURSE, SF9.5A	PG 64-22 PLANT MIX	AST,MAT COAT 78M	WHEELCHAIR RAMPS	RETROFITTING EXISTING WHEELCHAIR RAMPS	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	SEED & MULCHING	RESIDENTIAL SEEDING	TRENCHING (UNPAVED) (1)(2")	TRENCHING (PAVED) (1)(2")	JUNCTION BOX (STANDARD)	INDUCTIVE LOOP SAW CUT	LEAD-IN CABLE (18-2)	LEAD-IN CABLE (18-4)
						MI	FT	TONS	SMI	SY	SY	SY	SY	SY	SY	SY	SY	TONS	TONS	TONS	SY	EA	EA	EA	EA	AC	AC	LF	LF	EA	LF	LF	LF
7CR.20791.13	Rockingham	4	SR 1128	SARDIS CHURCH ROAD - FROM SR 1110 (ELLISBORO ROAD) TO PAVEMENT JOINT NORTH OF US 220	6	0.753	21	28											660.95	40.00														
					6	0.017	21			210							233		14.47	1.00														
					6	0.754	20.5 - 21												655.72	39.00														
TOTAL FOR MAP NO. 4						1.524		28	0	210	0						233		1,331.14	80.00				0	0			0	0	0			
"	"	5	SR 1138	LINDSEY BRIDGE ROAD - FROM STOKES COUNTY LINE TO A PAVEMENT JOINT AT THE NEW BRIDGE	6	0.138	20.3	22.5											113.57	7.00														
				NEW BRIDGE - DO NOT PAVE THIS SECTION		0.305	20.3																										
				LINDSEY BRIDGE ROAD - FROM A PAVEMENT JOINT AT THE NEW BRIDGE TO A PAVEMENT JOINT WEST OF SR 1137 (EDEN CHURCH ROAD)	6	0.992	20.3												816.38	49.00														
TOTAL FOR MAP NO. 5						1.435		22.5	0	0	0						0		929.95	56.00				0	0			0	0	0			
"	"	6	SR 1143	RIERSON ROAD - FROM SR 1138 (LINDSEY BRIDGE ROAD) TO SR 1110 (ELLISBORO ROAD)	6	1.917	20	105											1,594.43	96.00														
					6	0.006	20												4.87															
					6	0.215	20												174.34	10.00														
					6	0.133	20 - 22												113.21	7.00														
TOTAL FOR MAP NO. 6						2.271		105	0	0	0						0		1,886.85	113.00				0	0			0	0	0			
"	"	7	SR 1152	WILSON STREET - FROM PAVEMENT JOINT ON US 220 BUSINESS TO TO PAVEMENT JOINT AT US 311	7	0.258	32 - 40					4,387						524.91		31.00				5	3			200	50	6	1,000	500	100
					8	0.263	32											406.74		24.00				3	2								
					8	0.009	32 - 40											13.34		1.00													
					7	0.004	40											6.59						1									
TOTAL FOR MAP NO. 7						0.534		0	0	0	0	4,387						952.00		56.00				9	5			200	50	6	1,000	500	100
"	"	8	SR 1165	CARDINAL ROAD - FROM NC 704 TO SR 1162 (K-FORK ROAD)	9	0.046	21 - 30	90											37.97	2.00														
					9	0.382	21												259.87	16.00														
					9	0.022	21												14.97	1.00														
					9	0.762	21												578.38	35.00														
					9	0.028	21 - 31												23.57	1.00														
TOTAL FOR MAP NO. 8						1.24		90	0	0	0	0					0		914.76	55.00				0	0			0	0	0			
"	"	9	SR 1300	AYERSVILLE ROAD - FROM PAVEMENT JOINT NORTH OF NC 704 TO MAYODAN CITY LIMITS	10	0.16	34 - 36	72.5				651							246.54	15.00					2									
					10	0.18	36					725							282.12	17.00					1	2								
					11	0.07	44					499							164.52	10.00						1								
					10	0.07	35					281							99.11	6.00														
					6	0.02	24 - 27												20.65	1.00														
					6	0.74	24												919.43	55.00					6	10								
TOTAL FOR MAP NO. 9						1.24		72.5	0	0	0	2,156					0		1,732.37	104.00					9	13			0	0	0			
"	"	10	SR 1302	WASHINGTON STREET - FROM US 220 BUSINESS TO SR 1300 (AYERSVILLE ROAD)	12	0.198	36						1,696						234.53	14.00	4,181.80		6	5	2									
					13	0.206	36							1,629					279.84	17.00	4,350.70			3	8									
TOTAL FOR MAP NO. 10						0.404		0	0	0	0	0	1,696	1,629			0		514.37	31.00	8,532.50		6	8	10			0	0	0			
"	"	11	SR 1993	CEDAR LANE - FROM SR 1991 (BERRYMORE ROAD) TO SR 1987 (SALEM CHURCH ROAD)	9	0.028	21 - 24	55											20.40	1.00														
					9	0.919	21												645.19	39.00														
					9	1.104	20 - 21												843.23	51.00														
TOTAL FOR MAP NO. 11						2.051		55	0	0	0	0	0	0			0		1,508.82	91.00			0	0	0			0	0	0			
"	"	12	SR 2817	BARNES STREET - FROM PAVEMENT JOINT NORTH OF TRIPLETT STREET (NON-SYSTEM) TO PAVEMENT JOINT SOUTH OF SR 2687 (LAWSONVILLE AVENUE)	14	0.551	36						4,528						654.52	39.00		4	7	8	9			150	150	1	400	150	150
					14	0.176	36 - 40						1,447						223.27	13.00			4	5	6									
TOTAL FOR MAP NO. 12						0.727		0	0	0	0	0	5,975	0			0		877.79	52.00		4	11	13	15			150	150	1	400	150	150
"	"	13	SR 2154	STONE MOUNTAIN ROAD - FROM NC 135 TO NC 770	15	2.585	20	72.5											2,096.09	126.00	30,327.00			3	3									
					16	0.213	24 - 26								875				215.67	13.00	2,250.00			1	1									
					16	0.081	22 - 26					333							78.75	5.00	808.00			1	1									
TOTAL FOR MAP NO. 13						2.879		72.5	0	0	0	333	0	0	875		0		2,390.51	144.00	33,385.00	0	0	5	5			0	0	0			
"	"	14	SR 1603	OLD US 220 BUSINESS - FROM SR 1360 (SMITH ROAD) TO US 220	17	1.809	22	55											1,309.01	79.00	23,344.00													
					17	0.022	22 - 35												20.29	1.00	364.00													
TOTAL FOR MAP NO. 14						1.831		55	0	0	0	0	0	0	0		0		1,329.30	80.00	23,708.00	0	0	0	0			0	0	0			

PROJECT NO.	SHEET NO.	TOTAL NO.
7CR.10411.13, ETC.	10	13

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	WIDTH	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1½" MILLING	0" TO 1.5" MILLING	0" TO 1.25" MILLING	0" TO 1" MILLING	0" TO 2" MILLING	0" TO 4.5" MILLING	0" TO 3" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	SURFACE COURSE, SF9.5A	PG 64-22 PLANT MIX	AST,MAT COAT 78M	WHEELCHAIR RAMPS	RETROFITTING EXISTING WHEELCHAIR RAMPS	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	SEED & MULCHING	RESIDENTIAL SEEDING	TRENCHING (UNPAVED) (1 ½ 2")	TRENCHING (PAVED) (1 ½ 2")	JUNCTION BOX (STANDARD)	INDUCTIVE LOOP SAW CUT	LEAD-IN CABLE (18-2)	LEAD-IN CABLE (18-4)
						MI	FT	TONS	SMI	SY	SY	SY	SY	SY	SY	SY	SY	TONS	TONS	TONS	SY	EA	EA	EA	EA	AC	AC	LF	LF	EA	LF	LF	LF
"	"	15	SR 1561	HAMILTON STREET - FROM SR 1604 (WASHINGTON STREET) TO SR 1605 (OAKLAND AVENUE)	13	0.12	36						989						139.71	8.00	1,979.00		2					150	25	5	800	300	100
					13	0.038	30 - 56					308	308						112.83	7.00	1,056.00	1	1	2	1								
					13	0.03	30						246						31.12	2.00	386.00	2		1	1								
					13	0.256	25						2,106						217.20	13.00	2,558.00	6		1	2								
					13	0.035	25 - 34						143						53.41	3.00	603.00			2	2								
					18	0.073	32 - 34						604						87.93	5.00	1,078.00												
					18	0.033	25 - 31						136						29.90	2.00	467.00												
					9	0.049	23 - 25												38.08	2.00	685.00			1									
					19	0.059	26.5 - 27						241						51.18	3.00	792.00			1									
					19	0.053	36						295						141.71	9.00	874.00			3	2								
					13	0.009	36												10.48	1.00	152.00												
					13	0.184	36						1,512						237.23	14.00	3,024.00			4	3								
					20	0.013	33 - 65						215						20.59	1.00	284.00												
TOTAL FOR MAP NO. 15						0.952		0	0	0	0	308	6,795	0	0		0		1,171.37	70.00	13,938.00	9	3	15	11			150	25	5	800	300	100
"	"	16	SR 1709	HAMILTON STREET - FROM SR 1605 (OAKLAND AVENUE) TO SR 1785 (CHURCH STREET) AND FROM JOINT AT SR 1785 (CHURCH STREET) TO SR 1708 (BRYANT STREET)	21	0.071	35										583		100.53	6.00	1,125.00			1									
					9	0.03	23 - 28	10											24.76	1.00													
					9	0.036	22 - 23												31.23	2.00				1									
					9	0.398	18												232.23	14.00				1									
TOTAL FOR MAP NO. 16						0.535		10	0	0	0	0	0	0	0	583	0		388.75	23.00	1,125.00	0	0	3	0			0	0	0			
"	"	17	SR 2039	BETHELEHEM CHURCH ROAD - FROM PAVEMENT JOINT EAST OF SR 2282 (HAMILTON STREET) TO PAVEMENT JOINT WEST OF NC 87/HARRINGTON HIGHWAY	6	1.136	20	23									335		941.15	56.00													
				CONCRETE BRIDGE - DO NOT PAVE		0.027	20																										
				BETHELEHEM CHURCH ROAD - FROM PAVEMENT JOINT EAST OF SR 2282 (HAMILTON STREET) TO PAVEMENT JOINT WEST OF NC 87/HARRINGTON HIGHWAY	6	0.093	20												75.41	5.00													
					6	0.044	20 - 24												39.23	2.00													
					6	0.058	24												56.39	3.00													
TOTAL FOR MAP NO. 17						1.358		23	0	0	0	0	0	0	0	0	335		1,112.18	66.00		0	0	0	0			0	0	0			
"	"	18	SR 2039	BETHLEHEM CHURCH ROAD - FROM PAVEMENT JOINT EAST OF NC 87/HARRINGTON HIGHWAY TO PAVEMENT JOINT WEST OF NC 14/87/770	15	0.068	24	53											66.11	4.00	960.00												
					15	0.042	20 - 24												37.44	2.00	538.00												
					15	1.573	20												1,320.50	79.00	18,451.00				1								
					15	0.009	20 - 24												8.02		122.00												
					15	0.074	24 - 40												115.82	7.00	1,397.00												
					15	0.009	30										335		10.93	1.00	167.00												
				CONCRETE BRIDGE - DO NOT PAVE		0.039	30																										
					15	0.018	25 - 30												20.04	1.00	287.00												
					15	0.054	20 - 25												89.23	5.00	718.00												
					15	0.419	20												359.75	22.00	4,911.00												
TOTAL FOR MAP NO. 18						2.305		53	0	0	0	0	0	0	0	0	335		2,027.84	121.00	27,551.00	0	0	0	1			0	0	0			
"	"	19	SR 2565	LICK FORK CREEK ROAD - FROM US 158 TO PAVEMENT JOINT SOUTH OF SR 2560 (RUFFIN ROAD)	6	2.53	20	168											2,071.50	124.00													
					6	0.019	20												15.41	1.00													
					6	0.961	20												779.24	47.00													
					6	0.53	18.5 - 20												434.80	26.00													
TOTAL FOR MAP NO. 19						4.04		168	0	0	0	0	0	0	0	0	0		3,300.95	198.00		0	0	0	0			0	0	0			
"	"	20	SR 2203	ASHLEY LOOP ROAD - FROM PAVEMENT JOINT AT NC 87 TO SR 1991 (BERRYMORE ROAD)	15	0.073	22 - 32	28											79.80	5.00	1,155.00												
					15	0.041	20 - 22												34.90	2.00	502.00												
					15	1.697	20												1,426.04	86.00	19,911.00												
TOTAL FOR MAP NO. 20						1.811		28	0	0	0	0	0	0	0	0	0		1,540.74	93.00	21,568.00	0	0	0	0			0	0	0			
"	"	21	SR 2545	CARTER STREET - FROM PAVEMENT JOINT AT SR 2670 (SCALES STREET) TO ROANOKE STREET (NON SYSTEM)	12	0.08	31							661					80.24	5.00	1,086.00	3			2			100	25	1	400	150	150
					12	0.026	31												26.08	2.00	465.00												
TOTAL FOR MAP NO. 21						0.106		0	0	0	0	0	0	661	0	0	0		106.32	7.00	1,551.00	3	0	0	2			100	25	1	400	150	150

PROJECT NO.	SHEET NO.	TOTAL NO.
7CR.10411.13, ETC.	11	13

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	WIDTH	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1½" MILLING	0" TO 1.5" MILLING	0" TO 1.25" MILLING	0" TO 1" MILLING	0" TO 2" MILLING	0" TO 4.5" MILLING	0" TO 3" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	SURFACE COURSE, SF9.5A	PG 64-22 PLANT MIX	AST,MAT COAT 78M	WHEELCHAIR RAMPS	RETROFITTING EXISTING WHEELCHAIR RAMPS	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	SEED & MULCHING	RESIDENTIAL SEEDING	TRENCHING (UNPAVED) (1)(2")	TRENCHING (PAVED) (1)(2")	JUNCTION BOX (STANDARD)	INDUCTIVE LOOP SAW CUT	LEAD-IN CABLE (18-2)	LEAD-IN CABLE (18-4)
						MI	FT	TONS	SMI	SY	SY	SY	SY	SY	SY	SY	SY	TONS	TONS	TONS	SY	EA	EA	EA	EA	AC	AC	LF	LF	EA	LF	LF	LF
"	"	22	SR 2545	MARKET STREET - FROM SR 2545 (CARTER STREET)/ROANOKE STREET (NON SYSTEM) TO SR 2545 (WILLOW STREET)	17	0.142	20 - 24	3												101.18	6.00	1,662.00													
					17	0.037	24													28.75	2.00	520.00			1									
					19	0.054	24						222							41.96	3.00	636.00			1									
					17	0.044	24													34.19	2.00	624.00			1									
					17	0.013	19 - 24													29.05	2.00	167.00				2								
					17	0.059	19													56.33	3.00	659.00			2	3								
					17	0.027	19 - 20													77.06	5.00	312.00												
TOTAL FOR MAP NO. 22						0.376		3	0	0	0	0	222	0	0	0	0			368.52	23.00	4,580.00	0	0	5	5			0	0	0			
"	"	23	SR 2545	WILLOW STREET - FROM SR 2549 (NE MARKET STREET) TO END OF PAVEMENT	17	0.156	20													107.09	6.00	1,833.00			4	1								
					17	0.134	18 - 20													87.51	5.00	1,495.00			1	1								
TOTAL FOR MAP NO. 23						0.29		0	0	0	0	0	0	0	0	0	0			194.60	11.00	3,328.00	0	0	5	2			0	0	0			
"	"	24	SR 2549	N.E. MARKET STREET - FROM SR 2552 (NARROW GUAGE ROAD) TO SR 2545 (MARKET STREET)	17	0.01	24 - 75	33												16.00	1.00	292.00												
					17	0.047	24													36.52	2.00	659.00												
					17	0.225	20													145.81	9.00	2,638.00												
					17	0.075	26 - 33										367			71.59	4.00	1,295.00												
				CONCRETE BRIDGE - DO NOT PAVE		0.041	33																											
				N.E. MARKET STREET - FROM SR 2552 (NARROW GUAGE ROAD) TO SR 2545 (MARKET STREET)	17	0.001	33													1.07		15.00												
					17	0.051	33 - 45													64.32	4.00	1,174.00												
					17	0.014	45													80.37	5.00	370.00												
					17	0.014	29													13.14	1.00	242.00				1								
					17	0.354	21													250.82	15.00	4,359.00												
					17	0.06	26													50.50	3.00	919.00												
					17	0.439	21													303.65	18.00	5,411.00												
TOTAL FOR MAP NO. 24						1.331		33	0	0	0	0	0	0	0	0	367			1,033.79	62.00	17,374.00	0	0	0	1			0	0	0			
		25	SR 2912	NORMAN FARM ROAD - FROM PAVMENT JOINT SOUTH OF SR 2349 (GLENCOE CHURCH ROAD) TO END OF MAINTENANCE (AT CUL-DE-SAC)	9	0.474	20	38												404.16	24.00													
TOTAL FOR PROJ NO. 7CR.20791.13						**29.714**		**856.5**	**0**	**210**	**0**	**7,184**	**14,688**	**2,290**	**875**	**583**	**1,270**	**952.00**	**25,065.00**	**1,560.00**	**156,640.50**	**16**	**20**	**72**	**70**			**600**	**250**	**13**	**2,600**	**1,100**	**500**
GRAND TOTAL						**36.337**		**974**	**2.18**	**459**	**14,665**	**7,184**	**14,688**	**2,290**	**875**	**583**	**2,447**	**18,919.00**	**25,065.00**	**2,637.00**	**159,264.70**	**16**	**20**	**74**	**84**	**0.60**	**0.46**	**700**	**350**	**14**	**4,600**	**1,500**	**900**

PROJECT NO.	SHEET NO.	TOTAL NO.
7CR.10411.13, ETC.	12	13

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	6" X 90 M WHITE THERMO	6" X 120 M WHITE THERMO LF	8" X 90 M WHITE THERMO LF	8" X 90 M YELLOW THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO MSG ONLY 120 M EA	THERMO MSG SIGNAL 120 M EA	THERMO MSG AHEAD 120 M EA	THERMO MSG SCHOOL 120 M EA	THERMO RXR 120 M EA	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	24" WHITE PAINT LF
7CR.10411.13	Guilford	1	NC 65 WEST	FROM NC 68 TO THE ROCKINGHAM COUNTY LINE																						4,500	3,763	
TOTAL FOR PROJ NO. 7CR.10411.13																										**4,500**	**3,763**	
																										8,263		
7CR.10791.13	Rockingham	2	NC 14	FROM NORTHSIDE OF SR 2037 (HARRISION CROSSROAD) TO SR 2066 (KINGS HIGHWAY)	1,963	16,338				446	133		381	8	12	10			100	12	42	1							
"	"	"	"			13,558	7,262				24		396	48					54	14	50		1						
TOTAL FOR MAP NO. 2					1,963	29,896	7,262			446	157		777	56	12	10			154	26	92	1	1						
"	"	3	NC 65	FROM THE GUILFORD COUNTY LINE TO US 220	600			128																		41,780	37,356	
TOTAL FOR PROJ NO. 7CR.10791.13					**2,563**	**29,896**	**7,262**	**128**		**446**	**157**		**777**	**56**	**12**	**10**			**154**	**26**	**92**	**1**	**1**			**41,780**	**37,356**	
						37,158				**603**				**78**					**274**							**79,136**		
7CR.20791.13	Rockingham	4	SR 1128	SARDIS CHURCH ROAD - FROM SR 1110 (ELLISBORO ROAD) TO PAVEMENT JOINT NORTH OF US 220	200				20				50				6									32,180	27,165	
"	"	5	SR 1138	LINDSEY BRIDGE ROAD - FROM STOKES COUNTY LINE TO A PAVEMENT JOINT AT THE NEW BRIDGE AND FROM A PAVEMENT JOINT AT THE NEW BRIDGE TO A PAVEMENT JOINT WEST OF SR 1137 (EDEN CHURCH ROAD)																				23,868	21,455	
"	"	6	SR 1143	RIERSON ROAD - FROM SR 1138 (LINDSEY BRIDGE ROAD) TO SR 1110 (ELLISBORO ROAD)	200				22																	47,960	41,866	
"	"	7	SR 1152	WILSON STREET - FROM PAVEMENT JOINT ON US 220 BUSINESS TO TO PAVEMENT JOINT AT US 311		5,640	465		153				198											6	2			
"	"	8	SR 1165	CARDINAL ROAD - FROM NC 704 TO SR 1162 (K-FORK ROAD)	200				44																	26,200	20,463	
"	"	9	SR 1300	AYERSVILLE ROAD - FROM PAVEMENT JOINT NORTH OF NC 704 TO MAYODAN CITY LIMITS	1,500				176															1		10,652	13,144	
"	"	10	SR 1302	WASHINGTON STREET - FROM US 220 BUSINESS TO SR 1300 (AYERSVILLE ROAD)																						100	9,144	30
"	"	11	SR 1993	CEDAR LANE - FROM SR 1991 (BERRYMORE ROAD) TO SR 1987 (SALEM CHURCH ROAD)	800				100																	42,516	45,570	
"	"	12	SR 2817	BARNES STREET - FROM PAVEMENT JOINT NORTH OF TRIPLETT STREET (NON-SYSTEM) TO PAVEMENT JOINT SOUTH OF SR 2687 (LAWSONVILLE AVENUE)		7,144							23						2	2								
"	"	13	SR 2154	STONE MOUNTAIN ROAD - FROM NC 135 TO NC 770	600				84																	57,074	56,738	
"	"	14	SR 1603	OLD US 220 BUSINESS - FROM SR 1360 (SMITH ROAD) TO US 220	120				14																	38,540	37,900	
"	"	15	SR 1561	HAMILTON STREET - FROM SR 1604 (WASHINGTON STREET) TO SR 1605 (OAKLAND AVENUE)	1,320	10,062	270		30	195			117											4	3			
"	"	16	SR 1709	HAMILTON STREET - FROM SR 1605 (OAKLAND AVENUE) TO SR 1785 (CHURCH STREET) AND FROM JOINT AT SR 1785 (CHURCH STREET) TO SR 1708 (BRYANT STREET)					16																		750	
"	"	17	SR 2039	BETHELEHEM CHURCH ROAD - FROM PAVEMENT JOINT EAST OF SR 2282 (HAMILTON STREET) TO PAVEMENT JOINT WEST OF NC 87/HARRINGTON HIGHWAY			100		14																	28,580	27,768	

PROJECT NO.	SHEET NO.	TOTAL NO.
7CR.10411.13, ETC.	13	13

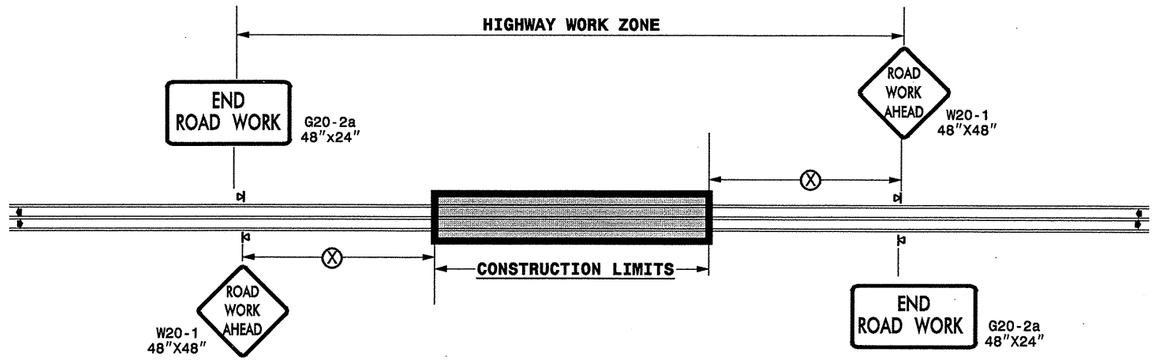
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	6" X 90 M WHITE THERMO	6" X 120 M WHITE THERMO LF	8" X 90 M WHITE THERMO LF	8" X 90 M YELLOW THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO MSG ONLY 120 M EA	THERMO MSG SIGNAL 120 M EA	THERMO MSG AHEAD 120 M EA	THERMO MSG SCHOOL 120 M EA	THERMO RXR 120 M EA	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	24" WHITE PAINT LF
"	"	18	SR 2039	BETHLEHEM CHURCH ROAD - FROM PAVEMENT JOINT EAST OF NC 87/HARRINGTON HIGHWAY TO PAVEMENT JOINT WEST OF NC 14/87/770			970		114																	47,892	47,686	
"	"	19	SR 2565	LICK FORK CREEK ROAD - FROM US 158 TO PAVEMENT JOINT SOUTH OF SR 2560 (RUFFIN ROAD)	200				28																	85,328	76,228	
"	"	20	SR 2203	ASHLEY LOOP ROAD - FROM PAVEMENT JOINT AT NC 87 TO SR 1991 (BERRYMORE ROAD)	300				44																	37,940	36,525	
"	"	21	SR 2545	CARTER STREET - FROM PAVEMENT JOINT AT SR 2670 (SCALES STREET) TO ROANOKE STREET (NON SYSTEM)								50	25					2									1,700	
"	"	22	SR 2545	MARKET STREET - FROM SR 2545 (CARTER STREET)/ROANOKE STREET (NON SYSTEM) TO SR 2545 (WILLOW STREET)	300				46																	7,956	7,956	
"	"	23	SR 2545	WILLOW STREET - FROM SR 2549 (NE MARKET STREET) TO END OF PAVEMENT																							546	
"	"	24	SR 2549	N.E. MARKET STREET - FROM SR 2552 (NARROW GUAGE ROAD) TO SR 2545 (MARKET STREET)			348		52			100	60					4								27,800	23,621	
"	"	25	SR 2912	NORMAN FARM ROAD - FROM PAVMENT JOINT SOUTH OF SR 2349 (GLENCOE CHURCH ROAD) TO END OF MAINTENANCE (AT CUL-DE-SAC)																								
TOTAL FOR PROJ NO. 7CR.20791.13					**5,740**	**22,846**	**2,153**		**957**	**195**		**150**	**473**				**6**	**6**	**2**	**2**				**11**	**5**	**519,492**	**501,131**	**30**
						24,999				**195**						**12**					**20**					**1,020,623**		
GRAND TOTAL					**8,303**	**52,742**	**9,415**	**128**	**957**	**641**	**157**	**150**	**1,250**	**56**	**12**	**10**	**6**	**6**	**156**	**28**	**92**	**1**	**1**	**11**	**5**	**565,772**	**542,250**	**30**
						62,157				**798**						**90**					**294**					**1,108,022**		

WBS Elements: 7CR.10411.13, 7CR.10791.13 & 7CR.20791.13

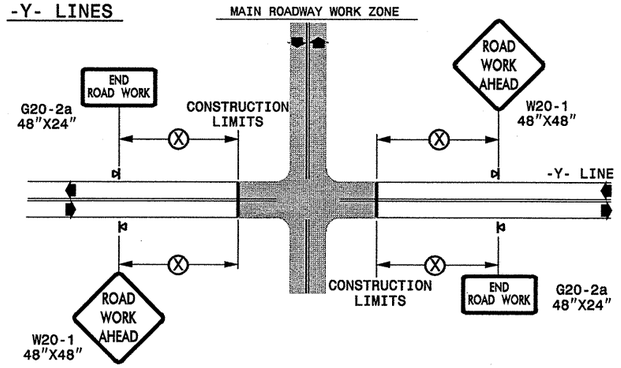
PROJ. REFERENCE NO.	SHEET NO.
See to the Left	TCP-1

TWO-WAY UNDIVIDED ** (L-LINES)



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

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



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED 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

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

DETAIL DRAWING FOR TWO-WAY UNDIVIDED WORK ZONE WARNING SIGNS

SHEET 1 OF 1

APPROVED:_____ DATE:_____

SEAL

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

SCALE:	NONE
DATE:	
DWG. BY:	
DESIGN BY:	
REVIEWED BY:	

REVISIONS	
7-98	10/01
10-98	03/04
01/01	11/04
CADD FILE	

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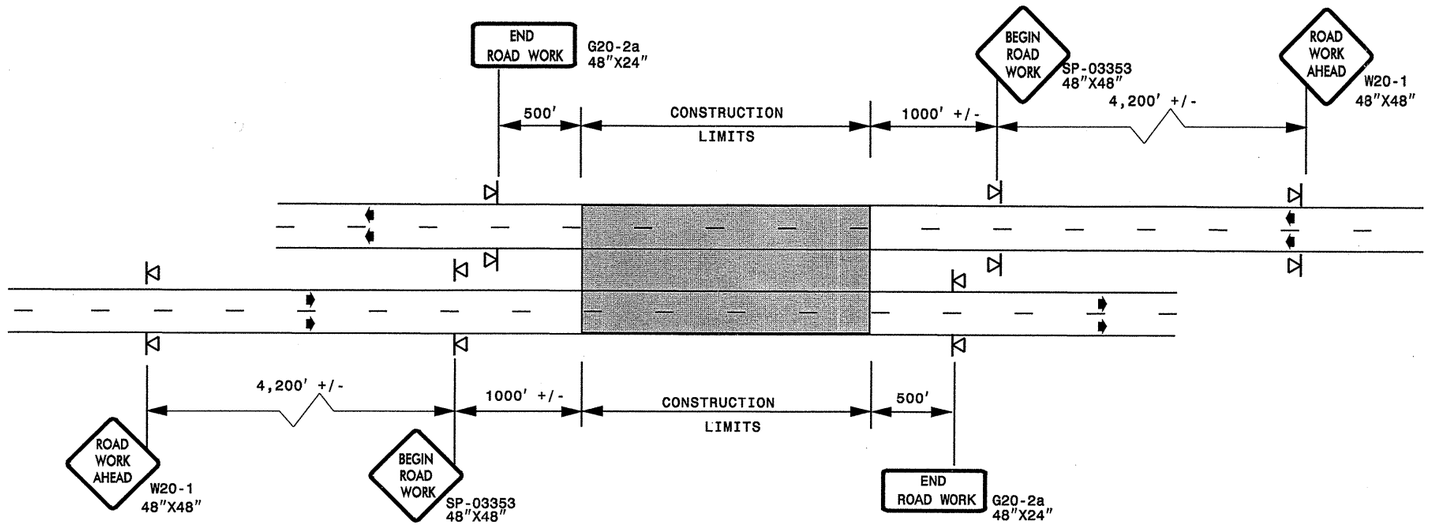
pseymore AT WZTC206427

WBS Elements: 7CR.10411.13, 7CR.10791.13 & 7CR.20791.13

PROJ. REFERENCE NO.	SHEET NO.
See to the Left	TCP-2

ADVANCED WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

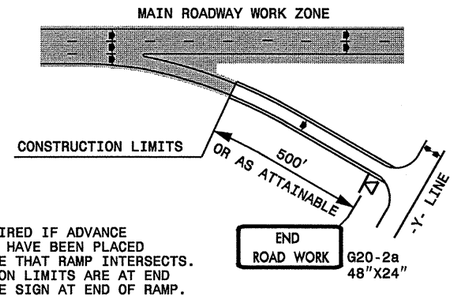
DETAIL A



ROADWAYS INTERSECTING ALONG FREEWAY WORK ZONE (Y-LINES)

DETAIL B

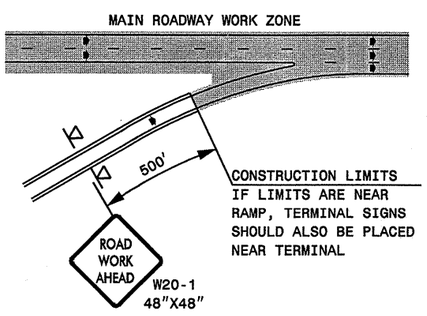
EXIT RAMPS



NOTE:
SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

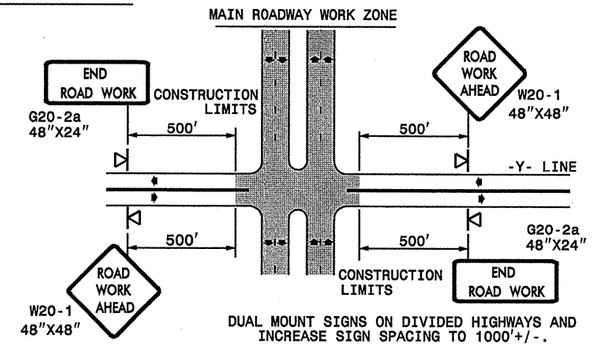
DETAIL C

ENTRANCE RAMPS



DETAIL D

-Y- LINES



DUAL MOUNT SIGNS ON DIVIDED HIGHWAYS AND INCREASE SIGN SPACING TO 1000'+/-.

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED 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.

LEGEND

- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW

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

DETAIL DRAWING
FOR FREEWAYS
WORK ZONE WARNING SIGNS
(SHORT-DURATION LANE CLOSURES)

SHEET 1 OF 1

APPROVED:_____ DATE:_____

SEAL

DETAIL DRAWING
FOR FREEWAYS
WORK ZONE WARNING SIGNS

SCALE:	NONE
DATE:	
DWG. BY:	
DESIGN BY:	
REVIEWED BY:	

REVISIONS	
7-98	10/01
10-98	03/04
01/01	11/04
CADD FILE	

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pseymore AT WZTC206427

WBS Elements: 7CR.10411.13,
7CR.10791.13 & 7CR.20791.13

PROJ. REFERENCE NO.	SHEET NO.
See to the Left	TCP-3

SP 03353

SIGN NUMBER: SP-03353
TYPE: A
QUANTITY: 1

BACKG COLOR: Fluorescent Orange
COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L:

SIGN WIDTH: 4'-0"
HEIGHT: 4'-0"
TOTAL AREA: 16.0 Sq.Ft.

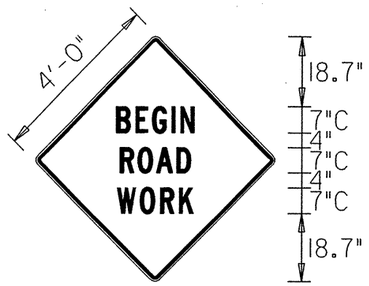
BORDER TYPE: FLUSH
RECESS: 0.59"
WIDTH: 0.75"
RADII: 1.38"

NO. Z BARS: N/A
LENGTH: N/A

DESIGN BY: CL DOWNEY
PROJECT ID: ALL PROJECTS
CHECKED BY: CHECKED
DIV: DIV
STD #: W20-1
DATE: Aug 20,2003

USE NOTES: 2, 4

1. Legend and border shall be direct applied Type VII reflective sheeting.
2. Legend and border shall be direct applied non-reflective sheeting.
3. Shields shall be Type VII reflective sheeting on 0.032" (0.8mm) aluminus and demountable.
4. Background shall be Type VII reflective sheeting.
5. Background shall be Type I reflective sheeting.
6. Center arrow(s) vertically on sign.
7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



LETTER POSITIONS

Letter spacings are to start of next letter

								Series/Size Text Length
	B	E	G	I	N			C7
22.4	5.3	4.6	5.4	2.5	3.8	22.4		21.6
	R	O	A	D				C7
23.4	5	5.2	5.6	3.8	23.4			19.6
	W	O	R	K				C7
22.6	6.4	5.6	5.2	4	22.6			21.2

Spacing Factor is 1 unless specified otherwise

FILENAME: SPECIBHAK

NORTH CAROLINA D.O.T. SIGN DETAIL

GENERAL NOTES FOR SIGN SP-03353 "BEGIN ROAD WORK"

-SIGN SP-03353 "BEGIN ROAD WORK" ONLY APPLIES TO FULL CONTROL AND PARTIAL CONTROL OF ACCESS ROADWAYS
-WHEN USED, INSTALL SIGN SP-03353 "BEGIN ROAD WORK" ACCORDING TO DETAIL FOR FREEWAY WORK ZONE SIGNS

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

DETAIL DRAWING FOR
WORK ZONE SIGNS
BEGIN ROAD WORK

SHEET 1 OF 1

APPROVED:_____ DATE:_____

SEAL

DETAIL DRAWING FOR
ADVANCED WORK ZONE WARNING
SIGN DESIGNS

SCALE:	NONE
DATE:	08/03
DWG. BY:	
DESIGN BY:	
REVIEWED BY:	

REVISIONS	
04/04	
11/04	
CADD FILE	

09-OCT-2006 15:39
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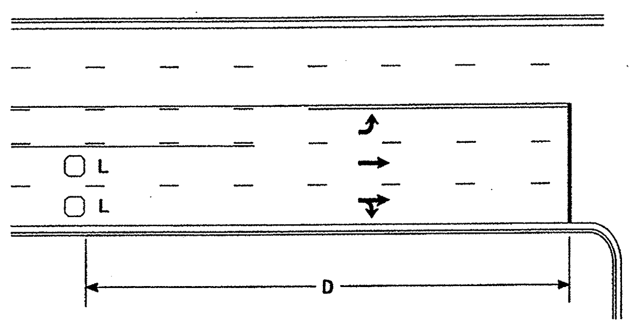
dseymore AT WZTC206427

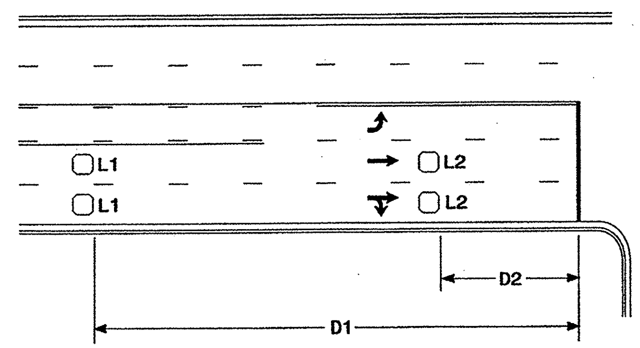
PROJECT REFERENCE NO.	SHEET NO.
	SIG 1

High Speed Detection

[≥40 mph (64 km/hr)]



OR



Speed Limit mph (km/hr)		D ft	(m)
40	(64)	250	(75)
45	(72)	300	(90)
50	(80)	355	(110)
55	(88)	420	(130)

L = 6ft X 6ft (1.8m X 1.8m)
Wired in series for TS1 Controllers
Wired separately for TS2, 170, and 2070L Controllers

Volume Density Operation

Speed Limit mph (km/hr)		D1 ft	(m)	D2 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)

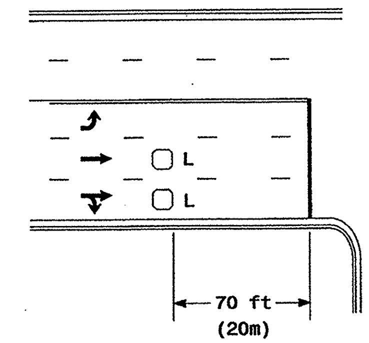
L1 = 6ft X 6ft (1.8m X 1.8m) Wired in series

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

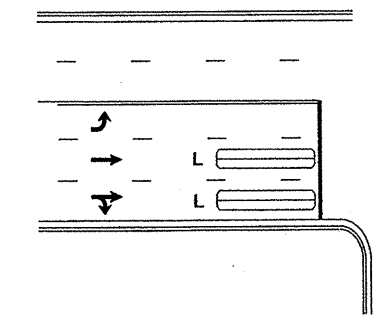
"Stretch" Operation

Low Speed Detection

[≤35 mph (56 km/hr)]



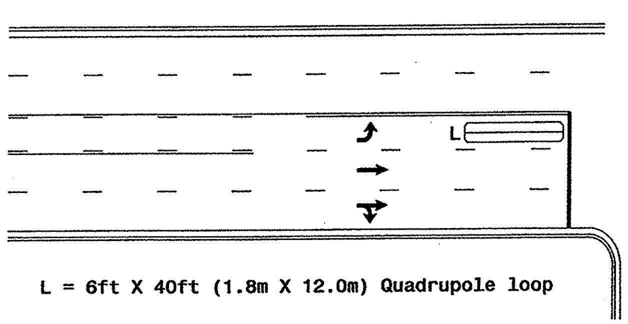
OR



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

L = 6ft X 40ft (1.8m X 12.0m)
Quadrupole loop, wired separately

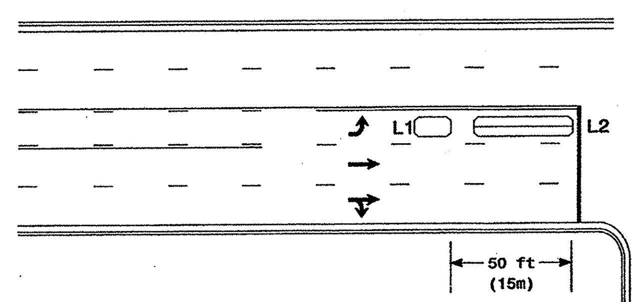
Left Turn Lane Detection



L = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

Presence Loop Detection

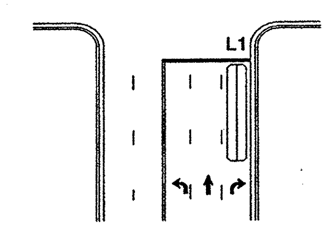
OR



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

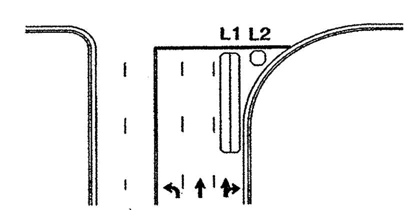
Queue Loop Detection

Right Turn Lane Detection

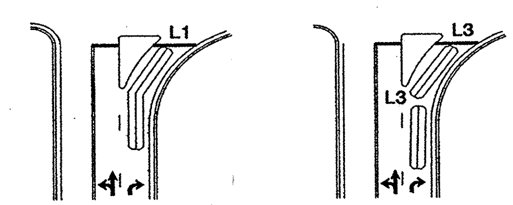


Standard Turn

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

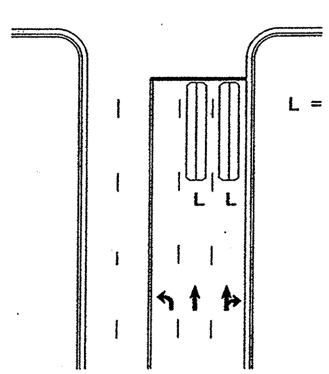


Wide Radius Turn



Channelized Turn

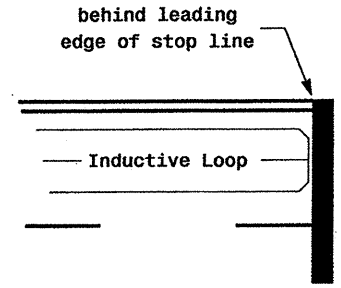
Side Street Detection



L = 6ft X 40ft (1.8m X 12.0m)
Quadrupole loop
Wired to separate detectors/channels

Presence Loop Placement at Stop Lines

Locate loop slightly behind leading edge of stop line



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.

Recommended Number of Turns

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

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

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

Prepared in the Offices of: Traffic Engineering and Safety Systems Branch, State of North Carolina Department of Transportation, Signals and Geometrics Section
122 N. McDowell St., Raleigh, NC 27603

Typical Loop Locations

SCALE N/A

PLAN DATE: June 2006 | REVIEWED BY:
PREPARED BY: P L Alexander | REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 23489 ENGINEER PAMELA L. ALEXANDER
SIGNATURE 6/6/06 DATE
SIG. INVENTORY NO.

06-JUN-2006 14:09
s:*its signals*lib turn in*misc*looptypical2006.dgn
palexander