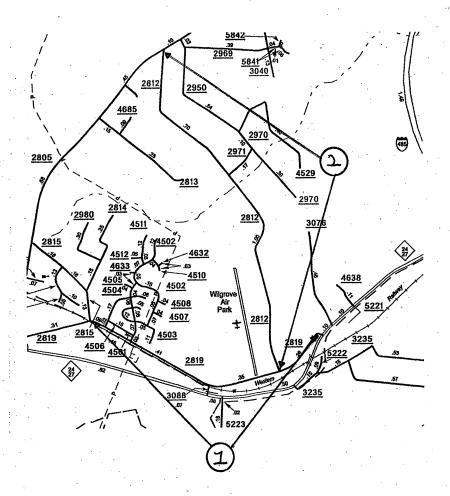
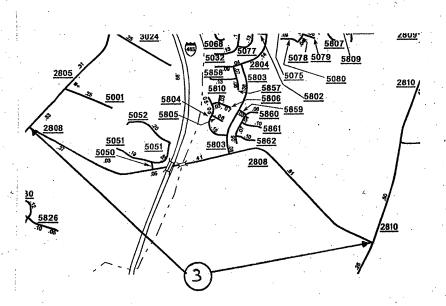
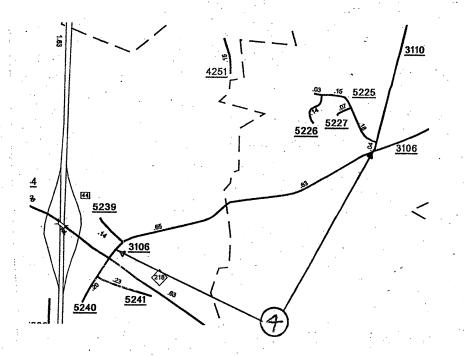
N.C.	JECT NO. /C	ليليا	
STATE	PROJECT NO.	SHEET NO.	SHEETS









MECKLENBURG COUNTY

NORTH CAROLINA

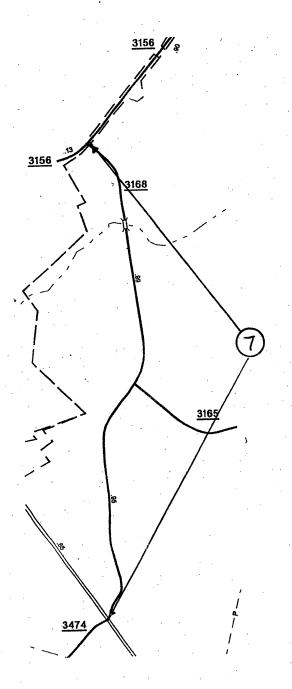
PREPARED BY

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - GIS UNIT

INCOOPERATION WITH THE
U.S.DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

	MAP#	ROUTE	DESCRIPTION
	1	Parkton Rd (SR 2819)	From Misenheimer Rd (SR 2815) to Pvt Jt at Albemarle Rd (NC 24/27)
	2	Cedarbrook Rd (SR 2812)	From Harrisburg Rd (SR 2805) to Parkton Rd (SR 2940)
	3	Camp Stewart Rd (SR 2808)	From Harrisburg Rd (SR 2805) to Lower Rocky Rd
,	4	Brief Rd (SR 3106)	From Arlington Church Rd (SR 3110) to Castle Stone Drive
		**	

	JECT NO. /OC	1 4	<u> </u>
N.C.	1	1 2	
STATE	PROJECT NO.	SHEET NO.	SHEETS





MECKLENBURG COUNTY

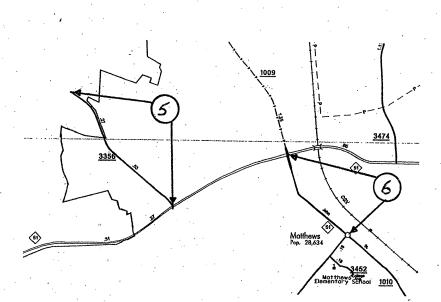
NORTH CAROLINA

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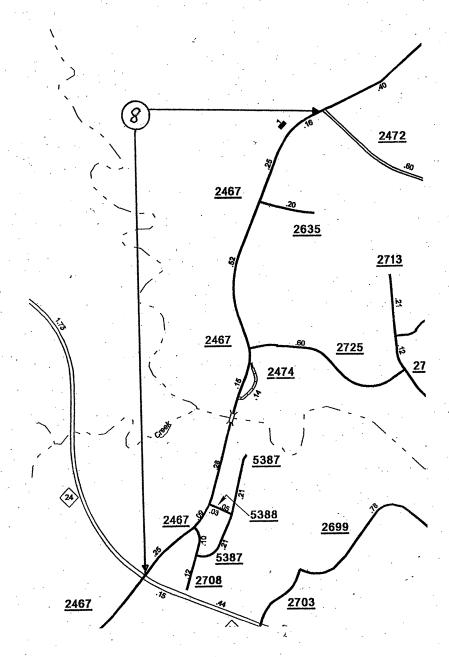
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - GIS UNIT

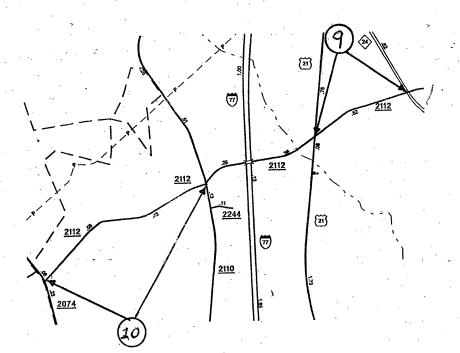
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

MAP#	ROUTE	DESCRIPTION
5	Sardis Rd (SR 3356)	From NC 51 to End of State Maintenance
6	John St (SR 1009)	From NC 51 to Trade Street
7	Sam Newell Rd (SR 3168)	From Independence Blvd (US 74) to Pvt Jt 400' Margarate Wallace Rd (SR 3156)



F 4 DDA	JECT NO. /OC/	O SAEAL	06 ate
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MECKLENBURG COUNTY

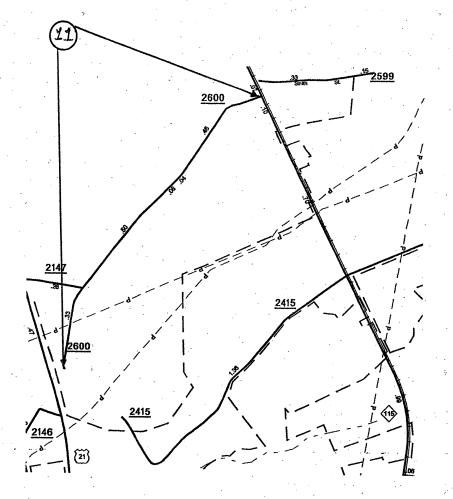
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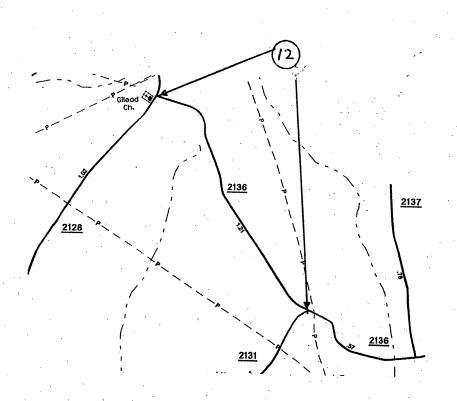
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - GIS UNIT

IN COOPERATION WITH THE U.S.DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

MAP#	ROUTE	DESCRIPTION
8	Mallard Creek Rd (SR 2467)	From W.T. Harris (NC 24) to Pvt Jt at Mallard Creek Church Rd (SR 2472)
9	Lakeview Rd (SR 2112)	From W.T. Harris (NC 24) to Statesville Rd (US 21)
10	Lakeview Rd (SR 2112)	From Reames Rd (SR 2110) to Beatties Ford Rd (SR 2074)

N.C.		4	571213	
STATE	PROJECT NO.	SHEET NO.	SHEETS	l







MECKLENBURG COUNTY

NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - GIS UNIT

INCOOPERATION WITH THE U.S.DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

MAP# ROUTE

11 Washum-Potts Rd (SR 2600)

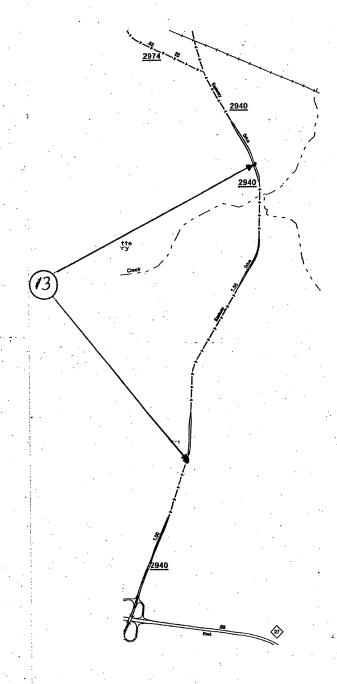
12 Gilead Rd (SR 2136)

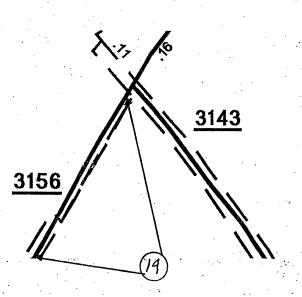
DESCRIPTION

From Old Stateville Rd (NC 115) to Pvt Jt 400' Bailey Rd

From Beatties Ford Rd (SR 2128) to Old Bud Henderson Rd (SR 2131)

STATE	PROJECT NO.	SHEET NO.	SHEETS
N.C.		5	







MECKLENBURG COUNTY

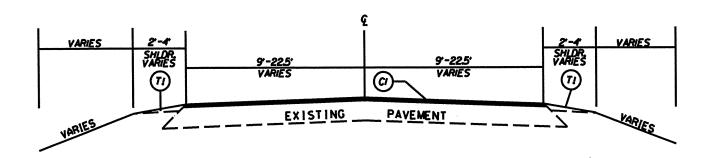
NORTH CAROLINA

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - GIS UNIT

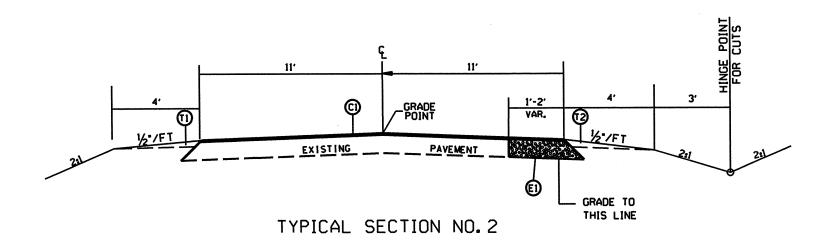
U.S.DEPARTMENT OF TRANSPORTATION

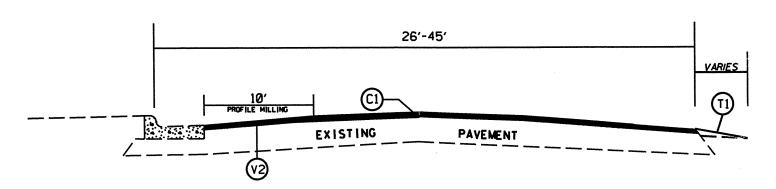
MAP#	ROUTE	DESCRIPTION
13	Eastway Drive (SR 2940)	From Shamrock Dr to Central Ave
14	Margarate Wallace Rd (SR 3	156) From Idlewild Rd (SR 3143) to Olde Creek

STATE	PROJECT	NO.	SHEET	NO.	TOTAL SHEETS
N.C.			6		
F.A. PRO	JECT NO.	IOC	R-2060	11.86	FTC.



TYPICAL SECTION NO. 1





TYPICAL SECTION NO. 3

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD. IN EACH OF TWO LAYER'S
T1	SHOULDER RECONSTRUCTION.
T2	SHOULDER CONSTRUCTION.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING O" TO 1.5"

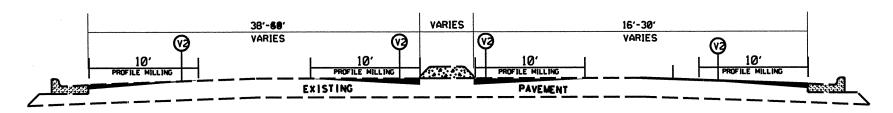
2011 MECKLENBURG COUNTY RESURFACING

SCALE	-NA-	
DATE	12/10	
DWG. BY	JSL	l
DESIGN BY	JSL	
APPROVED		

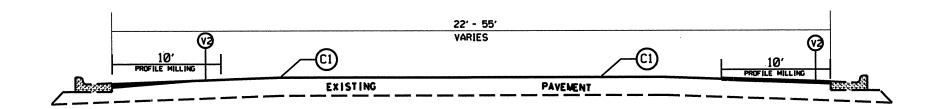




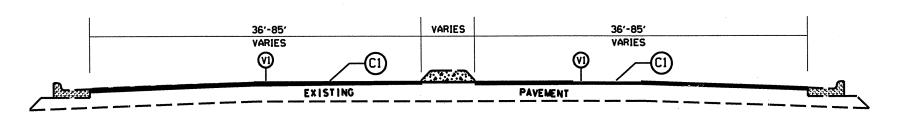
STATE	PROJECT	NO.	SHEET NO	TOTAL SHEETS
N.C.			7	
F.A. PRO	JECT NO.	100	R.2060I.	86 ETC.



TYPICAL SECTION NO.4



TYPICAL SECTION NO.5



TYPICAL SECTION NO. 6

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD. IN EACH OF TWO LAYER'S
T1	SHOULDER RECONSTRUCTION.
T2	SHOULDER CONSTRUCTION.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING O" TO 1.5"

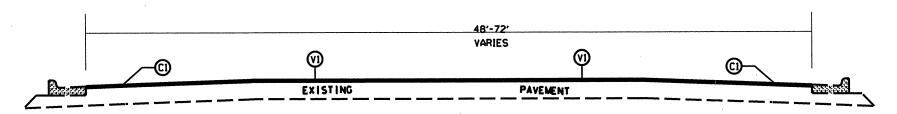
2011 MECKLENBURG COUNTY RESURFACING

ALE	-NA-
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G. BY	JSL
SIGN BY	JSL
PROVED	

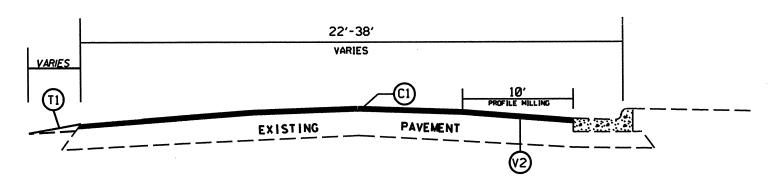




,	STATE	PROJECT	NO.	SHEET	NO.	TOTAL SHEETS
	N.C.			8		
	F.A. PRO	JECT NO.	100	R.206	01.86	ETC.



TYPICAL SECTION NO.7



TYPICAL SECTION NO. 8

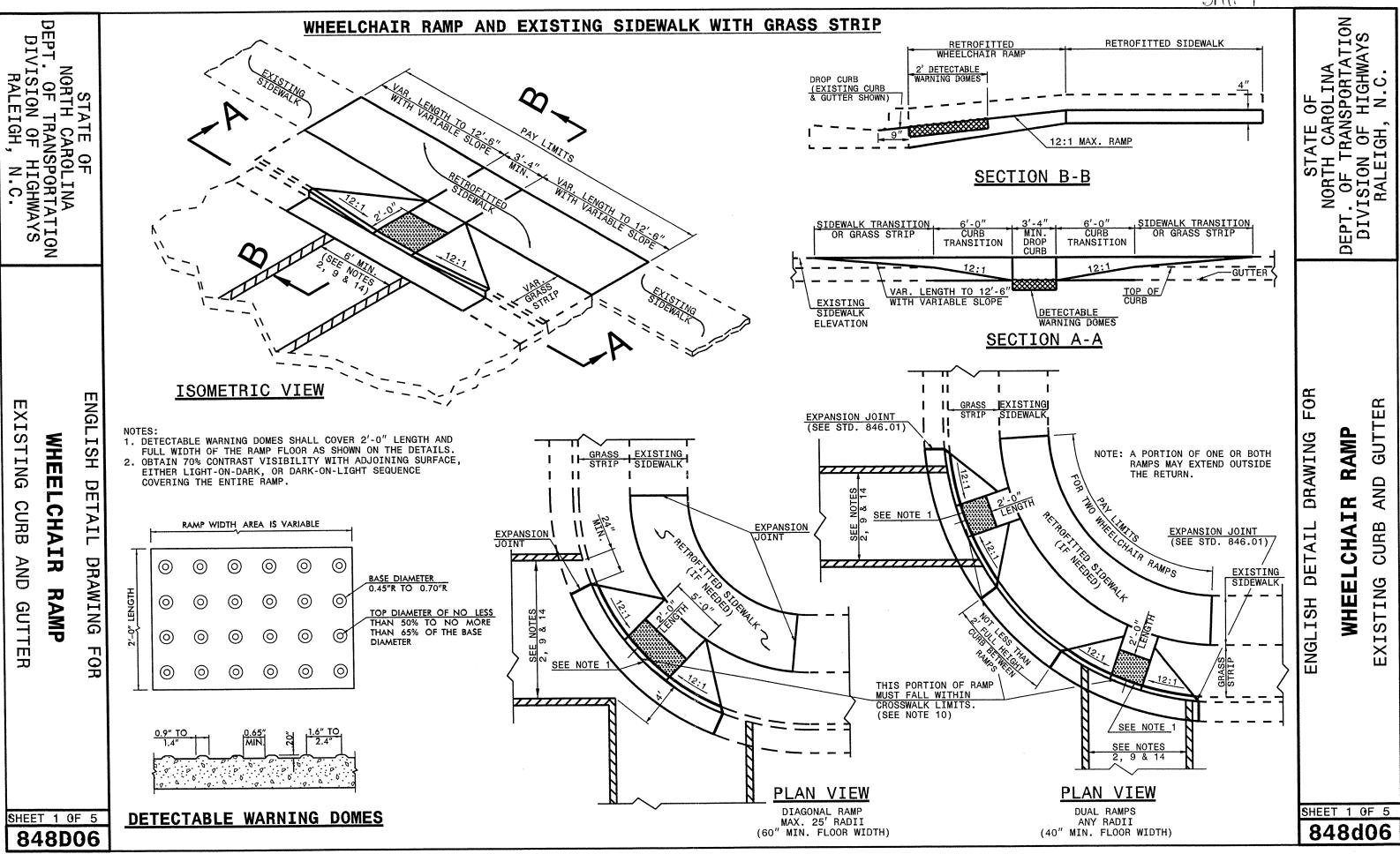
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COERCE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD. IN EACH OF TWO LAYER'S
T1	SHOULDER RECONSTRUCTION.
T2	SHOULDER CONSTRUCTION.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING O" TO 1.5"

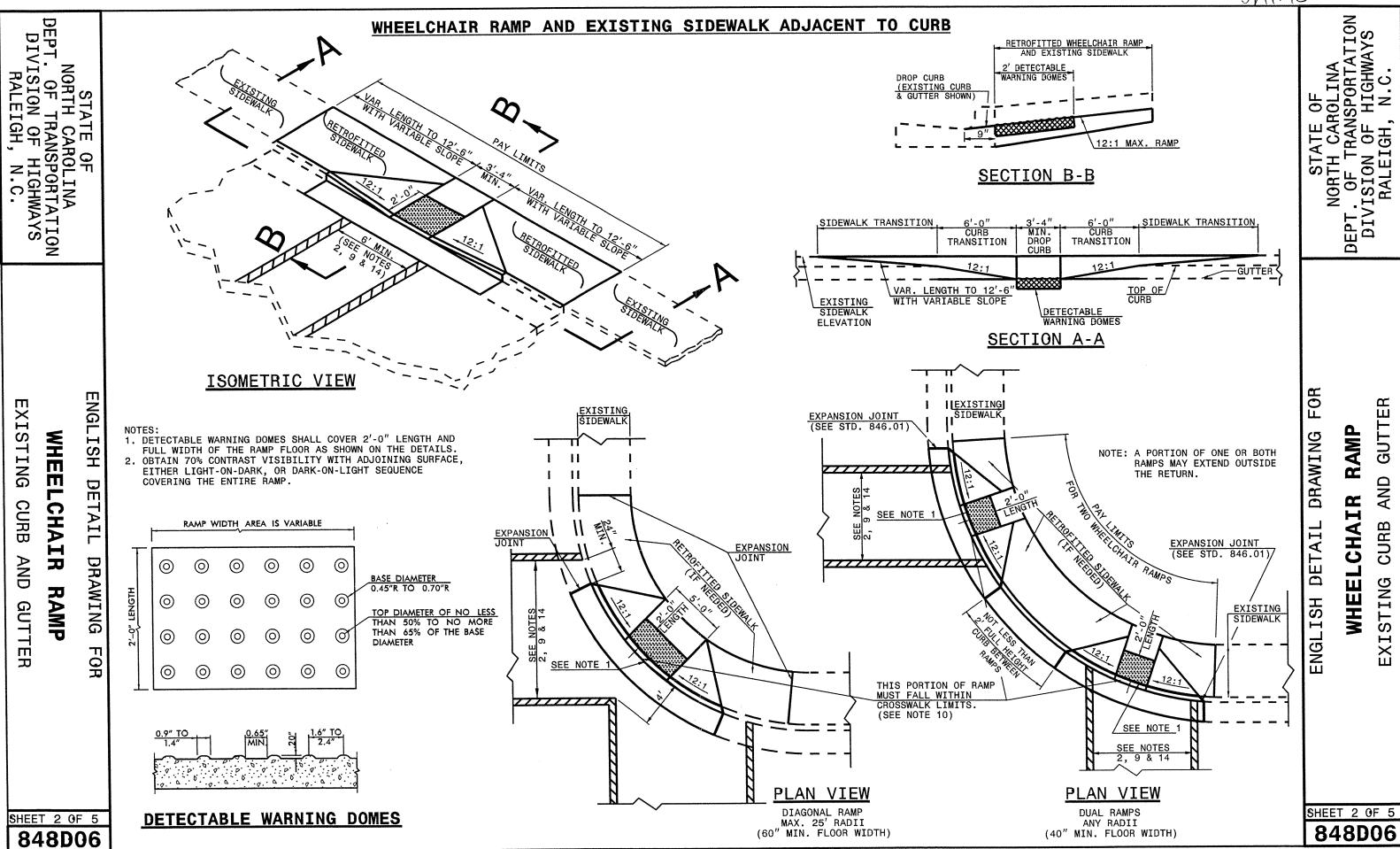
2011 MECKLENBURG COUNTY RESURFACING

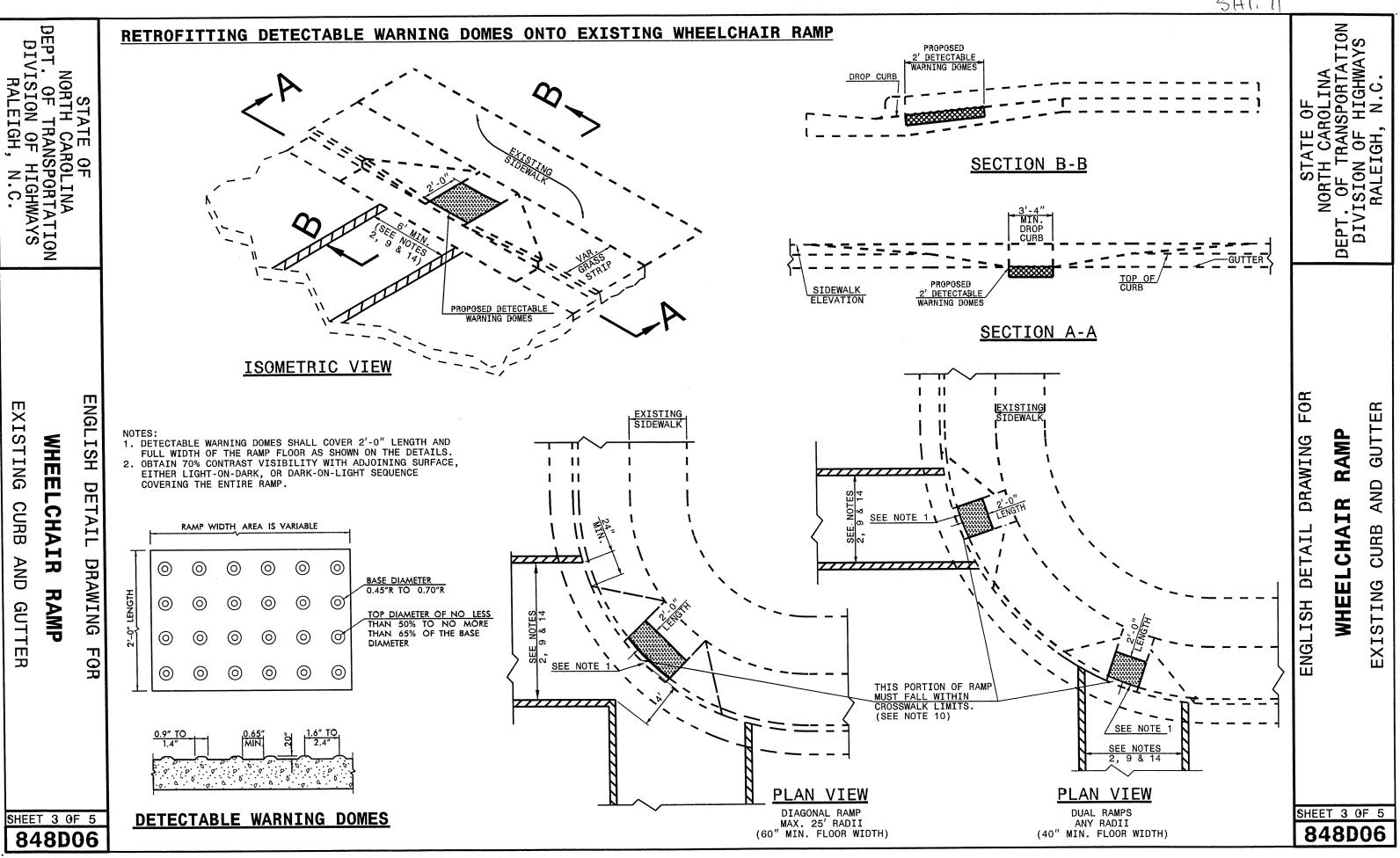
SCALE -NA-DATE 12/10 DWG. BY JSL DESIGN BY JSL











NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

FOR

ENGLISH DETAIL DRAWING

GUTTER

AND

CURB

EXISTING

RAMP

WHEELCHAIR

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C. ENGLISH DETAIL DRAWING EXISTING

WHEELCHAIR RAMP

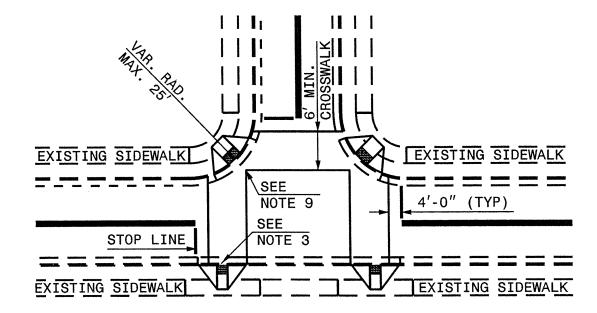
SHEET 4 OF 5

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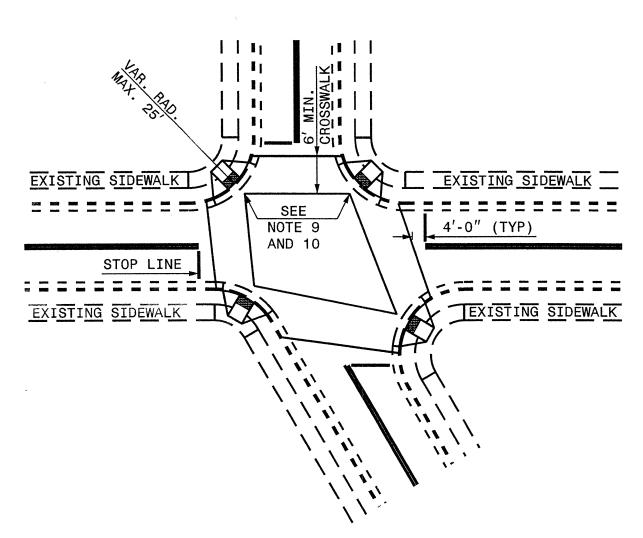
FOR

CURB AND GUTTER

WHEELCHAIR RAMP AND EXISTING SIDEWALK



DETAIL SHOWING TYPICAL LOCATION OF WHEELCHAIR RAMPS.
PEDESTRIAN CROSSWALKS AND STOP LINES FOR TEE INTERSECTIONS



DETAIL SHOWING TYPICAL LOCATION OF WHEELCHAIR RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES

RESURFACING PROJECTS

PROPOSED WHEELCHAIR RAMP FOR RESURFACING PROJECTS EXISTING SIDEWALK

ALLOWABLE LOCATIONS DIAGONAL RAMP RADII...MAX. 25'

SHEET 4 OF 5

848D06

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

WHEE LCHA IR RAMP

XISTING

CURB

AND

ENGLISH DE DRAWING GUTTER

NOTES:

WHEELCHAIR RAMP AND EXISTING SIDEWALK

- 1. CONSTRUCT THE WALKING SURFACE WITH SLIP RESISTANCE AND A 70% CONTRASTING COLOR TO THE SIDEWALK.
- CROSSWALK WIDTHS AND CONFIGURATION VARY, BUT MUST CONFORM TO TRAFFIC DESIGN STANDARDS.
- NORTH CAROLINA GENERAL STATUTE 136-44.14 REQUIRES THAT ALL STREET CURBS BEING CONSTRUCTED OR RECONSTRUCTED FOR MAINTENANCE PROCEDURES, TRAFFIC OPERATIONS, REPAIRS, CORRECTION OF UTILITIES OR ALTERED FOR ANY REASON AFTER SEPTEMBER 1, 1973 SHALL PROVIDE WHEELCHAIR RAMPS FOR THE PHYSICALLY DISABLED AT ALL INTERSECTIONS WHERE BOTH CURB AND GUTTER AND SIDÉWALKS ARE PROVIDED AND AT OTHER POINTS OF PEDESTRIAN FLOW.

IN ADDITION, SECTION 228 OF THE 1973 FEDERAL AID HIGHWAY SAFETY ACT REQUIRES PROVISION OF CURB RAMPS ON ANY CURB CONSTRUCTION AFTER JULY 1.1976 WHETHER A SIDEWALK IS PROPOSED INITIALLY OR IS PLANNED FOR A FUTURE DATE.

THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990 EXTENDS TO INDIVIDUALS WITH DISABILITIES, COMPREHENSIVE CIVIL RIGHTS PROTECTIONS SIMILIAR TO THOSE PROVIDED TO PERSONS ON THE BASIS OF RACE, SEX, NATIONAL ORIGIN AND RELIGION UNDER THE CIVIL RIGHTS ACT OF 1964. THESE CURB RAMPS HAVE BEEN DESIGNED TO COMPLY WITH THE CURRENT ADA STANDARDS.

- PROVIDE WHEELCHAIR RAMPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. LOCATE WHEELCHAIR RAMPS AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. WHERE TWO RAMPS ARE INSTALLED PLACE NOT LESS THAN 2 FEET OF FULL HEIGHT CURB BETWEEN THE RAMPS. PLACE DUAL RAMPS AS NEAR PERPENDICULAR TO THE TRAVEL LANE BEING CROSSED AS POSSIBLE.
- 5. DO NOT EXCEED 0.08 (12:1) SLOPE ON THE WHEELCHAIR RAMP IN RELATIONSHIP TO THE GRADE OF THE STREET.
- CONSTRUCT WHEELCHAIR RAMPS 40" (3'-4") OR GREATER FOR DUAL RAMPS AND 60" (5'-0") OR GREATER FOR DIAGONAL RAMPS.
- USE CLASS "B" CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.
- 8. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE WHEELCHAIR RAMP JOINS THE CURB AND AS SHOWN ON STD. DWG. 848.01.
- PLACE THE INSIDE PEDESTRIAN CROSSWALK LINES NO CLOSER IN THE INTERSECTION BY BISECTING THE INTERSECTION RADII, WITH ALLOWANCE OF A 4' CLEAR ZONE IN THE VEHICULAR TRAVELWAY WHEN ONE RAMP IS INSTALLED. (SEE NOTE 14)
- COORDINATE THE CURB CUT AND THE PEDESTRIAN CROSSWALK LINES SO THE FLOOR OF THE WHEELCHAIR RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES. PLACE DIAGONAL RAMPS WITH FLARED SIDES SO 24" OF FULL HEIGHT CURB FALLS WITHIN THE CROSSWALK MARKINGS ON EACH SIDE OF THE FLARES.
- 11. CONSTRUCT THE PEDESTRIAN CROSSWALK A MINIMUM OF 6 FEET. A CROSSWALK WIDTH OF 10 FEET OR GREATER IS DESIRABLE.
- USE STOP LINES, NORMALLY PERPENDICULAR TO THE LANE LINES, WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE RÉQUIRED TO STOP IN COMPLIANCE WITH A TRAFFÍC SIGNAL, STOP SIGN OR OTHER LEGAL REQUIREMENT. AN UNUSUAL APPROACH SKEW MAY REQUIRE THE PLACEMENT OF THE STOP LINE TO BE PARALLEL TO THE INTERSECTING ROADWAY.
- 13. TERMINATE PARKING A MINIMUM OF 20 FEET BACK OF PEDESTRIAN CROSSWALK.
- 14. PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.

SHEET 5 OF 5

848D06

SHEET 5 OF 5 848D06

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AMP

DRAWING

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STATE OF
NORTH CAROLINA
F. OF TRANSPORTATION
VISION OF HIGHWAYS
RALEIGH, N.C.

EPT. DIVI

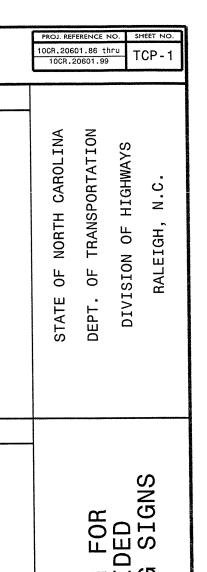
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NOTES: Less than 5' - 10' undisturbed buffer					RW SHEET NO	
from ROW ditabline water feature	EDUCION	CONTROL	DETAIL		ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NOTES: Less than 5' — 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.	DIVOION	COMINOL	DUIAIL		ENGINEER	ENGINEER
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< 5' - 10' Undisturbed buffer from jurisdictional fea	ture add BMP		. Undisturbed			
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PROJECT NO.	SHEET NO.	TOTAL NO.
DCR.20601.86, 10CR.20601.	15	
10CR.20601.89, ETC.		

SUMMARY OF QUANTITIES

										O IVI IV																		
PROJECT	COUNT	TY MAP	ROUTE	DESCRIPTION	TYP	FINAL SURFACE	LENGTH	WIDTH	BORROW		SHOULDER CONSTRUC	SHOULDER RECONSTR	1½" MILLING	0" TO 1.5" MILLING	INCIDENTAL		SURFACE COURSE,	LEVELING COURSE,		PG 70-22 PLANT MIX	EXISTING	EXIST.	ADJ. OF CATCH	ADJ. OF MANHOLES	METER OR	PORTABLE LIGHTING	TEMPORAR	SEED & MULCHING
						TESTING		:		STONE	TION	UCTION			MILLING	B25.0C	S9.5C	S9.5C			PAVEMENT	WHEELCHAI R RAMP	BASIN		VALVE BOX		Y SILT FENCE	
NO		NO			NO	REQUIRED	Mi	FT	CY	TONS	SMI	SMI	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS	EA	EA	EA	EA	LS	LF	AC
				FROM MISENHEIMER RD (SR																								
10CR.20601.86	Maaklanh	hum 1	PARKTON RD (SR 2819)	2815) TO PVT JT AT ALBEMARLE RD (NC 24/27)	1,2, 3	NO	1.3	24	50	10	1.80	0.30		1,650	135	400	1,700	150	17	112	200					1	200	2.0
10CR.20001.00[1	TOTAL	FOR PROJ	NO. 10CR.20601.86	(NO ENET)	1,2,0		1.3		50	10	1.80	0.30		1,650	135	400	1,700	150	17	112	200						200	2.0
				L EDGLIADI MOTON OULDOUDD		r									1		·		1		γ	7						
				FROM ARLINGTON CHURCH RD (SR 3110) TO CASTLE STONE																								1
10CR.20601.88	Mecklent	burg 4	BRIEF RD (SR 3106)	DRIVE	1	NO	0.95	21.5		10		1.75			125		1,114	230		82	230							0.7
	TOTAL	FOR PROJ	NO. 10CR.20601.88				0.95			10	<u></u>	1.75		L	125		1,114	230	L	82	230				ll		1	0.7
				FROM INDEPENDENCE BLVD					l	T		l			T T		T		T	T	T	T		T	Г			
				(US74) TO PVT JT 400' FROM						l															1	I		1
10CR.20601.89	Meckleni	burg 7	SAM NEWELL (SR 3168)	MARGARATE WALLACE	1,3,5,8	NO	1.95	26.5		20		2.70 2.70	·····	3,300 3,300	450 450		2,814 2,814	400 400		195 195	490 490	ļ		2	8 8	0.14 0.14		1.0 1.0
	TOTAL	FOR PROJ	NO. 10CR.20601.89		L	ll	1.95	L	L	1 20	L	2.70		3,300	1 400 1		2,014	400	L	1 133	1 430					0.14	1	1.0
				FROM NC 51 TO END OF STATE	<u> </u>					T				l			T											
10CR.20601.90	Meckleni	burg 5	SARDIS RD (SR 3356)	MAINTENANCE	1,3,4,5	NO	0.8	29		ļ	ļ	1.25 1.25		2,600 2,600	215 215		1,148 1,148			69 69	75 75	6.00 6.00		1 1	9 9			0.8 0.8
	IOIAL	FOR PROJ	NO. 10CR.20601.90		L	l1	0.6	L	L	<u> </u>	L	1.20	L	1 2,000	1 210 1	L.,,,,,	1,140		L	1	1	1 0.00		·		L		
10CR.20601.91	Meckleni	burg 6	JOHN ST WEST (SR 1009)	FROM NC 51 TO TRADE STREET	6,7	NO	0.51	76.5					22,889				2,778			167	175	8.00	5	15	11	0.14		
	TOTAL	FOR PROJ	NO. 10CR.20601.91		L	l	0.51		L	l	L	L	22,889	<u> </u>	Ll	L	2,778		L	167	175	8.00	5	15	11	0.14		
l				FROM HARRISBURG RD (SR 2805)	1	l1		T	l	T	I	Γ		I	T T		T		T	T	T							·
10CR.20601.92	Meckleni	burg 2	CEDARBROOK RD (SR 2812)	TO PARKTON RD (SR 2819)	11	NO	1.76	19.5		40		3.50			120		1,872	150		122	100			<u> </u>				1.5
	TOTAL	FOR PROJ	NO. 10CR.20601.92		<u> </u>		1.76	<u> </u>	<u> </u>	40	<u> </u>	3.50		<u> </u>	120	Ĺ	1,872	150	L	122	100			L	Ll			1.5
 				FROM W. T. HARRIS BLVD (NC 24)	1			T	<u> </u>	T	Γ	Γ		T			T		Ī .	I			,		[1		i
				TO PVT JT AT MALLARD CREEK	1									1					ł					_]		i
10CR.20601.93			MALLARD CREEK RD (SR 2467)	CHURCH RD (SR 2472)	7	NO	1.7	60.5	 	ļ			60,339 60,339				5,587 5,587			335 335	600	37.00 37.00		2	10 10	0.14 0.14		
	IOIAL	FUR PRUJ	NO. 10CR.20601.93		L	L	1	L	1	1	L	L	00,000	1			1 5,555.				1 000	1 01.00				2		
i I				FROM W.T. HARRIS BLVD (NC 24)													4 007			86								
10CR.20601.94			LAKEVIEW RD (SR2112)	TO STATESVILLE RD (US 21)	1,3	NO	0.6	37	ļ	15 15	<u> </u>	1.10		500 500	200		1,207 1,207	210 210	 	86	210 210			 		0.14		0.7 0.7
	IOIAL	FOR PROJ	NO. 10CR.20601.94		1		0.0	L	!	1 19	L	1	L	1	1 200]		1 1,20,		<u> </u>					<u></u>	L	0.14 1		
				FROM REAMES RD (SR 2110) TO						1							1 007											
10CR.20601.95	Mecklen	burg 10	LAKEVIEW RD (SR 2112) NO. 10CR.20601.95	BEATTIES FORD RD (SR 2074)	1 1	NO	1 1	31	 	15 15		1.90 1.90		ļ	200	<u> </u>	1,687	200 200	 	114	350 350	3,00 3.00		 		0.14 0.14	~	1.1
 	IUIAL	FOR PRO	NO. 10CR.20001.95			L	L	L	<u></u>			1	L			·				1	1	1 0.00						
				FROM PVT JT AT OLD					,																			i
1000 20601 96	Macklen	hum 11	WASHAM POTTS RD (SR 2600)	STATESVILLE RD (NC 115) TO PVT JT 400' FROM BAILEY RD	1.3	NO	1.35	21.5		25		2.60		500	115		1,583	300	1	114	475			1				0.9
10014.20001.501			NO. 10CR.20601.96		1 .,,		1.35			25		2.60		500	115		1,583	300		114	475			1				0.9
				T FROM OUMBOOK PRINT TO			,	T	т	·	Т	T	т	1	1	r	7	Ι	T	Т	т	T			1			
10CR.20601.97	Marklen	nhum 13	EASTWAY DRIVE (SR 2940)	FROM SHAMROCK DRIVE TO CENTRAL AVENUE	6.7	NO	1.53	52					46,675				4,323			259	535			6	6	0.14		i
10011.20001.01	TOTAL	FOR PRO	NO. 10CR.20601.97		1		1.53						46,675				4,323			259	535			6	6	0.14		
				TOUT IT AT IDI FIANI D DD (CD 2442)		·	·····				T		T	T	T		т	r	т			т		T		т		
10CR 20601 98	Mecklen	nbura 14	MARGARATE WALLACE (SR 3156)	PVT JT AT IDLEWILD RD (SR 3143) TO OLDE CREEK	1,3,5	NO	0.51	31.5	1	10		0.65		2,200	170		874	100		59	125				3			0.4
	TOTAL	FOR PRO	J NO. 10CR.20601.98		1		0.51			10		0.65		2,200	170		874	100		59	125				3			0.4
		————	r	FROM BEATTIES FORD RD (SR	т	т	T	T	т	T	T	T	Τ	T	T	1	T	T	T	T	т	T		T	Ţ			
				2128) TO OLD BUD HENDERSON	1						1		1															i
10CR.20601.99	Meckler	nburg 12	GILEAD RD (SR 2136)	RD (SR 2131)	1_1_	NO	1.2	27.5		30	ļ	2.00		<u> </u>	140		1,797	250	ļ	124	420	-		ļ	3	0.14		1.4
	TOTAL	FOR PRO	J NO. 10CR.20601.99			L	1.2	L	J	30	L	2.00	L	1	140	L	1,797	250	1	124	420	1	L	<u> </u>	3	0.14		1.4
	Γ		T .	T	T	T	1	T	T	T	T	T	T	T	1		T	Ī T	T	T	T	T		T				i
				FROM HARRISBURG RD (SR 2805)	0)							1			455		2017							1	1 . 1			
10CR20601.87	Meckler	nburg 3	J NO. 10CR20601.87	TO LOWER ROCKY RIVER RD	+1-	NO	1.8	27	 	10		3.40	 	 	155 155	 	2,647 2.647	1,000	 	224	630			+ 1	1 1			2.0
	IUIAL	LFURPRO	3 NO. 100R20001.01				1 1.0																	· · · · · · · · · · · · · · · · · · ·	······································			•
		GRAN	D TOTAL		1		16.96	L	50	185	1.80	21.15	129,903	10,750	2,025	400	31,131	2,990	17	2,062	4,615	54.00	5	28	51	0.98	200	12.5

			r	·			<u> IERI</u>	MOP	LAS	TIC	AND	PA	INT	QU	ANTI		S											
PROJECT COUNTY MAP ROUTE	DESCRIPTION	TRAFFIC CONTROL	468500 4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	468600 4" X 120 M WHITE THERMO	4" X 120 M YELLOW THERMO	8" X 90 M YELLOW THERMO	0000-E 8" X 90 M WHITE THERMO LF		8" X 120 M YELLOW THERMO	16" X 120 M WHITE THERMO			THERMO MSG ONLY 120 M	THERMO MSG SCHOOL 120 M	THERMO MSG LANE 120 M	THERMO MSG ENDS 120 M	THERMO MSG AHEAD 120 M	THERMO MSG STOP 120 M		THERMO RT	STR ARROW 90 M	ARROW 90		00000-E 4" YELLOW PAINT	RED MARKERS	YELLOW & YELLOW MARKERS	4905000000-N SNOW PLOWABLE MARKERS
10CR.20601.86 Mecklenburg 1 PARKTON RD (SR 2819) TOTAL FOR MAP NO. 1 TOTAL FOR PROJ NO. 10CR.20601.86	FROM MISENHEIMER RD (SR 2815) TO PVT JT AT ALBEMARLE RD (NC 24/27)	0 0	10,935 10,935 10,935		200 200 200	13,000 13,000 13,000	200 200 200				50 50 50	25 25 25 25	2 2 2 2			LA	EA	EA	EA	3 3 3	EA	EA	EA	LF	LF	10 10 10	90 90 90	EA
10CR 20601.88 Mecklenburg 4 BRIEF RD (SR 3108) TOTAL FOR MAP NO. 4 TOTAL FOR PROJ NO. 10CR 20601.88	FROM ARLINGTON CHURCH RD (SR 3110) TO CASTLE STONE DRIVE	0 0	9,700 9,700 9,700 9,700		13,	9,800 9,800 9,800	20	00								2						3				10	65 65 65	
10CR 20601.89 Mecklenburg 7 SAM NEWELL (SR 3168) TOTAL FOR MAP NO. 7	FROM INDEPENDENCE BLVD (US74) TO PVT JT 400' FROM MARGARATE WALLACE	0 0	17,500 17,500 17,500	00	1,200 1,200 1,200	100	1,500 1,500	200 200				136 136 136		8 8 8	12 12 12					19	4 4					40 40	150 150	
TOTAL FOR PROJ NO. 10CR.20601.89 10CR.20601.90 Mecklenburg 5 SARDIS RD (SR 3356) TOTAL FOR MAP NO. 5 TOTAL FOR PROJ NO. 10CR.20601.90	FROM NC 51 TO END OF STATE MAINTENANCE	0 0 0	7,000 7,000 7,000 7,000	450	400	7,700 7,700 7,700 7,700	300 300 300 300	00	110 110 110			24 24 24 24				20				6 6 6	6 6	23				10 10 10 10	150 90 55 55 55	
	FROM NC 51 TO TRADE STREET	0 0			3.000	5,000 5,000 5,000	300 300 300 300 55	290 290 290 290	1	10		135 135 135		12 12 12		5 5 5 21	4 4 4			15 15 15	5 5 5	12 4 4 4 27	3 3 3	3,000 3,000 3,000 8,000	5,000 5,000 5,000	75 75 75 75	40 40 40 40	
10CR 20601.92 Mecklenburg 2 CEDARBROOK RD (SR 2812) TOTAL FOR MAP NO. 2 TOTAL FOR PROJ NO. 10CR.20601.92	FROM HARRISBURG RD (SR 2805 TO PARKTON RD (SR 2819)	0 0																										
10CR.20601.93 Mecklenburg 8 MALLARD CREEK RD (SR 2467) TOTAL FOR MAP NO. 8 TOTAL FOR PROJ NO. 10CR.20601.93	FROM W. T. HARRIS BLVD (NC 24 TO PVT JT AT MALLARD CREEK CHURCH RD (SR 2472)	0 0			5,000 5,000 5,000	11,220 11,220 11,220 220						450 450 450			54 54 54	54				65 65 65	3 3 3	15 15 15 15	8 8 8	5,000 5,000 5,000	11,000 11,000 11,000			500 500 500
10CR.20601.94 Mecklenburg 9 LAKEVIEW RD (SR2112) TOTAL FOR MAP NO. 9 TOTAL FOR PROJ NO. 10CR.20601.94	FROM W.T. HARRIS BLVD (NC 24) TO STATESVILLE RD (US 21)	0 0	5,800 5,800 5,800 5,800	300	300 300 300 4,2	3,960 3,960 3,960	500 500 500	00				45 45 45								4 4 4	2 2 2 2	2 2 2 2 2 8				4	40 40 40	20 20 20
10CR 20601.95 Mecklenburg 10 LAKEVIEW RD (SR 2112) TOTAL FOR MAP NO. 10 TOTAL FOR PROJ NO. 10CR 20601.95	FROM REAMES RD (SR 2110) TO BEATTIES FORD RD (SR 2074)	0 0	10,760 10,760 10,760 10,760	760	450 450 450 9,4	9,000 9,000 9,000 150	400 400 400 400	00				148 148 148			12 12 12	21		5 5 5	4 4 4	7 7 7	3 3 3	10				30 30 30 30	70 70 70 70	
10CR.20601.96 Mecklenburg 11 WASHAM POTTS RD (SR 2600) TOTAL FOR MAP NO. 11 TOTAL FOR PROJ NO. 10CR.20601.96	FROM PVT JT AT OLD STATESVILLE RD (NC 115) TO PVT JT 400' FROM BAILEY RD	0 0	13,900 13,900 13,900 13,900	900	100 100 100	00			14	14,300 14,300 14,300 ,300		100 100 100														10	100 100 100	
10CR 20601.97 Mecklenburg 13 EASTWAY DRIVE (SR 2940) TOTAL FOR MAP NO. 13 TOTAL FOR PROJ NO. 10CR.20601.97	FROM SHAMROCK DRIVE TO CENTRAL AVENUE	0 0	3,4	3,400 3,400 3,400	5,500 5,500 5,500 5,500	500	1,4	1,400 1,400 1,400				280 280 280			12 12 12	12				12 12 12		8 8 8 8	5 5 5	5,000 5,000 5,000 5,000	0000	250 250 250 250	100 100 100 50	
10CR.20601.98 Mecklenburg 14 MARGARATE WALLACE (SR 3156 TOTAL FOR MAP NO. 14 TOTAL FOR PROJ NO. 10CR.20601.98		0 0 0	4,175 4,175 4,175 4,175	175	665 665 665 5,5	5,300 5,300 5,300 965														6 6 6		6				32 32 32 32	50 50 50 50	
10CR.20601.99 Mecklenburg 12 GILEAD RD (SR 2136) TOTAL FOR MAP NO. 12 TOTAL FOR PROJ NO. 10CR.20601.99	FROM BEATTIES FORD RD (SR 2128) TO OLD BUD HENDERSON RD (SR 2131)	0	12,800 12,800 12,800 12,800		450 450 450 450	8,000 8,000 8,000 450	235 235 235 235 235	35	·											5 5 5		5				20 20 20 10	80 80 80	
10CR20601.87 Mecklenburg 3 CAMP STEWART RD (SR 2808) TOTAL FOR MAP NO. 3 TOTAL FOR PROJ NO. 10CR20601.87	FROM HARRISBURG RD (SR 2805 TO LOWER ROCKY RIVER RD) 0 0	18,500 18,500 18,500 18,500	500	500	19,000 19,000 19,000 500	1,000 1,000 1,000	000				24 24 24								9 9 9	3 3 3	12				20 20 20	130 130 130 50	
GRAND TOTAL	<u> </u>	1	111,070 116	4,950 ,020	17,765 130	112,480 ,245	4,435 6,3	1,890 325	110	14,300 ,410	50	1,367	2	20	90	130	4	5	I 4	151	26	29 222	16		16,000	487	970 457	520



FOR

DRAWING / UNDIVIC WARNING

TWO-WA

WORK

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

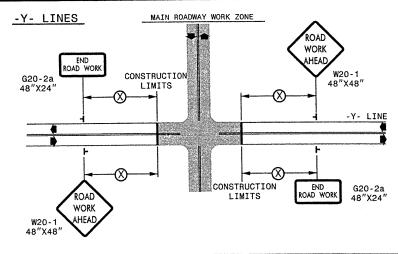
TWO-WAY UNDIVIDED ** (L-LINES)

WORK

ROAD WORK

W20-1 48"X48"

G20-2a 48"X24'



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.

END

ROAD WORK

G20-2a 48"x24'

- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.

HIGHWAY WORK ZONE

-CONSTRUCTION LIMITS-

- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.

- ** 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 - STATIONARY SIGN ■ DIRECTION OF TRAFFIC FLOW

RECOMMENDED MINIMUM

SIGN SPACING

 \otimes

500'

1000'

POSTED SPEED LIMIT

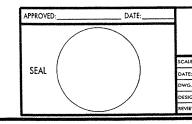
(M.P.H.)

≤ 50

≥ 55

SHEET 1 OF 1

DETAIL



DETAIL	DRAV	VING	FOR	TWO-W	ΙΑΥ
UNDIVID					
ADVANCED	WORK	ZONE	WAF	RNING	SIGNS

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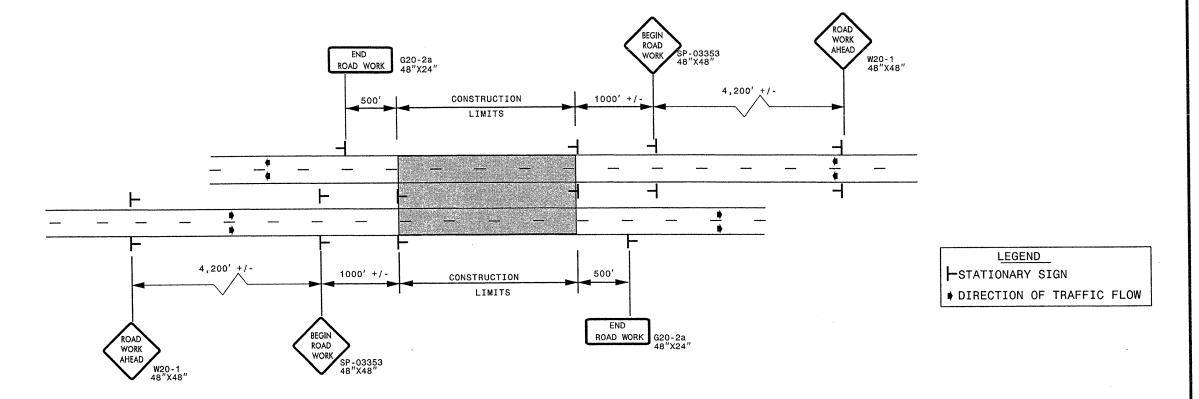
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	REVISIONS	
1	7-98	10/01
1	10-98	03/04
1	01/01	11/04
	CADD file	

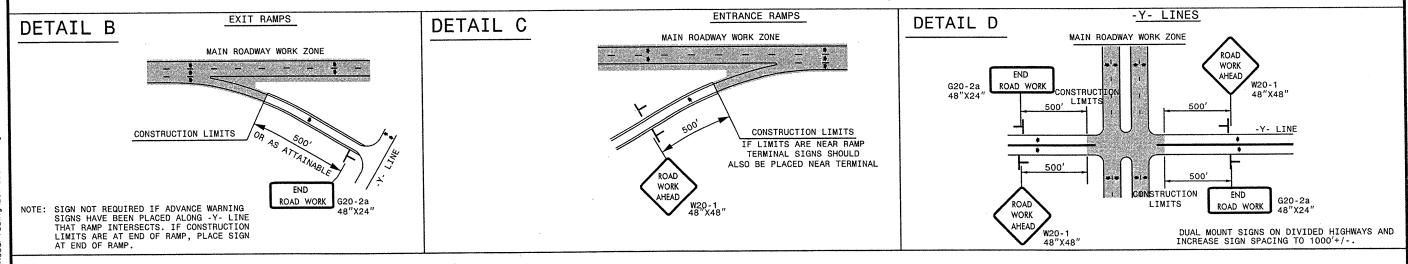
ADVANCED WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

PROJ. REFERENCE NO. SHEET NO. 10CR.20601.86 thru 10CR.20601.99

DETAIL A

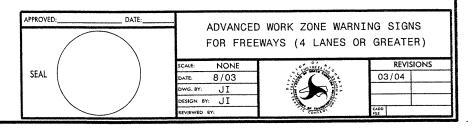


★ USE THE "\$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "\$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.



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.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.





- (1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS:
 - A. TRUCK MOUNTED SIGNS
 - B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
 C. GROUND MOUNTED ADVANCE WARNING SIGNS
 - (MUST CIRCLE TO PICK UP SIGNS)
 - D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS) (MUST USE CIRCLE TO PICK UP SIGNS)
- (2) ALL ADVANCE WARNING SIGNS MUST BE 48" X 48" WITH FLUORESCENT ORANGE TYPE VII, VIII OR IX SHEETING. IF SPACE LIMITATIONS ON SHOULDER PROHIBIT A 48" X 48" SIGN, A SMALLER SIGN CAN BE USED WITH APPROVAL FROM ENGINEER.
- (3) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHTBAR.
- (4) GROUND MOUNTED ADVANCED WARNING SIGNS SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND TO BOTTOM OF SIGN.
- (5) SIGN SPACING SHOULD BE ADJUSTED FOR HORIZONTAL AND VERTICAL CURVES, ETC. TO IMPROVE SIGHT DISTANCES.
- (6) ADDITIONAL VEHICLES SHOULD BE USED IN WORK CARAVAN TO FACILITATE DRYING OF PAVEMENT MARKING MATERIAL (TMIA'S ARE OPTIONAL ON THESE ADDITIONAL VEHICLES). HOWEVER, THE FIRST VEHICLE MOTORISTS SEE IN THE TRAVEL LANE SHALL HAVE A TMIA.

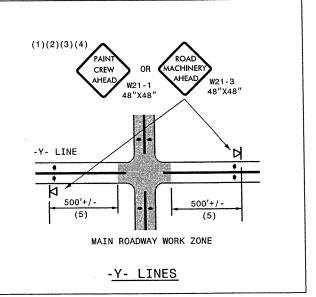
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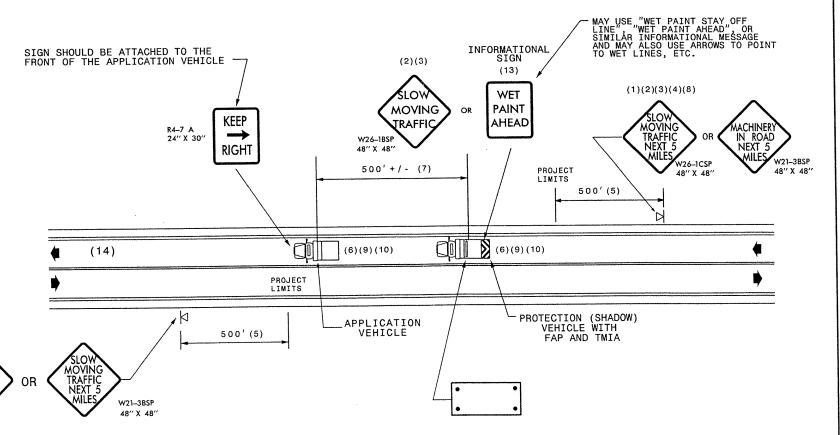
W26-1CSP

- (7) ADJUST DISTANCE AS NEEDED TO PREVENT MOTORISTS FROM ENTERING SPACE BETWEEN THE APPLICATION AND PROTECTION VEHICLE. DISTANCE CAN BE LENGTHENED TO ACCOMODATE SIGHT DISTANCE NEEDS.
- (8) ROUND UP MILEAGE TO NEXT WHOLE MILE. WORK ZONE SHOULD NOT EXCEED FIVE (5) MILES IN LENGTH.
- (9) RADIO COMMUNICATION BETWEEN VEHICLES IS REQUIRED.
- (10) USE OF A LIGHT BAR ON ALL VEHICLES IS PREFERRED, BUT A ROTATING BEACON MAY BE USED INSTEAD.
- (11) IF WORK IS PERFORMED AT NIGHT, THE WORK AREA MUST BE ILLUMINATED WITH MACHINE AND/OR TOWER LIGHTS AS APPROVED BY THE ENGINEER.
- (12) ALL TRAFFIC CONTROL DEVICES WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS FOR PAVEMENT MARKING AND MARKERS.
- (13) INFORMATIONAL SIGNS SHOULD BE ACTIVITY SPECIFIC, i.e.
 "PAINT CREW IN ROAD". SIGNS MAY BE RECTANGULAR OR DIAMOND SHAPE.
 SIGN SIZE SHOULD BE BASED ON THE MOTORIST ABILITY TO RECOGNIZE SIGN WHEN TRAVELING FIVE (5) MILES ABOVE POSTED SPEED LIMIT.
- (14) IF A LEAD VEHICLE IS ADDED TO OPERATION, IT SHOULD HAVE THE SAME ADVANCE WARNING SIGNS AS THE APPLICATION VEHICLE SHOWN BELOW.

LEGEND

- PORTABLE SIGN. SIGNS MUST BE NCHRP-350 AND NCDOT APPROVED.
- DIRECTION OF TRAFFIC FLOW
- APPLICATION VEHICLE WITH LIGHT BAR
- PROTECTION VEHICLE WITH TRUCK MOUNTED IMPACT ATTENUATOR (TMIA) AND LIGHT BAR (SEE ROADWAY STANDARD NO. 1165.01). TMIA MUST BE NCHRP-350 TEST LEVEL 3 (60+MPH)
- FLASHING ARROW PANEL, TYPE "B" (60"X30" MIN.), "CAUTION MODE"





MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER) PLACING PAVEMENT MARKING OR MARKERS
ON TWO-LANE TWO-WAY ROADWAYS

DRAWING NUMBER 6 IMPLEMENTATION DATE: 07/01/97 REVISED: 11/03/04



- (1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS:
 - A. TRUCK MOUNTED SIGNS
 - B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
 - C. GROUND MOUNTED ADVANCE WARNING SIGNS (MUST CIRCLE TO PICK UP SIGNS)
 - D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS) (MUST USE CIRCLE TO PICK UP SIGNS)
- (2) ALL ADVANCE WARNING SIGNS MUST BE 48" X 48" WITH FLUORESCENT ORANGE TYPE VII, VIII OR IX SHEETING. IF SPACE LIMITATIONS ON SHOULDER PROHIBIT A 48" X 48" SIGN, A SMALLER SIGN CAN BE USED WITH APPROVAL FROM ENGINEER.
- (3) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHTBAR.
- (4) GROUND MOUNTED ADVANCED WARNING SIGNS SHOULD BE MOUNTED A MINIMUM OF FIVE (5) FEET FROM THE GROUND TO BOTTOM OF SIGN.
- (5) SIGN SPACING SHOULD BE ADJUSTED FOR HORIZONTAL AND VERTICAL CURVES, ETC. TO IMPROVE SIGHT DISTANCES.

- (6) ADDITIONAL VEHICLES SHOULD BE USED IN WORK CARAVAN TO FACILITATE DRYING OF PAVEMENT MARKING MATERIAL (TMIA'S ARE OPTIONAL ON THESE ADDITIONAL VEHICLES). HOWEVER, THE FIRST VEHICLE MOTORISTS SEE IN THE TRAVEL LANE SHALL HAVE A TMIA.
- (7) ADJUST DISTANCE AS NEEDED TO PREVENT MOTORISTS FROM ENTERING SPACE BETWEEN THE APPLICATION AND PROTECTION VEHICLE. DISTANCE CAN BE LENGTHENED TO ACCOMODATE SIGHT DISTANCE NEEDS.
- (8) ROUND UP MILEAGE TO NEXT WHOLE MILE. WORK ZONE SHOULD NOT EXCEED FIVE (5) MILES IN LENGTH.
- (9) RADIO COMMUNICATION BETWEEN VEHICLES IS REQUIRED.
- (10) USE OF A LIGHT BAR ON ALL VEHICLES IS PREFERRED, BUT A ROTATING BEACON MAY BE USED INSTEAD.
- (11) IF WORK IS PERFORMED AT NIGHT, THE WORK AREA MUST BE ILLUMINATED WITH MACHINE AND/OR TOWER LIGHTS AS APPROVED BY THE ENGINEER.
- (12) ALL TRAFFIC CONTROL DEVICES WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS FOR PAVEMENT MARKING AND MARKERS.

LEGEND

PORTABLE SIGN. SIGNS MUST BE NCHRP-350 AND NCDOT APPROVED.



DIRECTION OF TRAFFIC FLOW



APPLICATION VEHICLE WITH LIGHT BAR



PROTECTION VEHICLE WITH TRUCK MOUNTED IMPACT ATTENUATOR (TMIA) AND LIGHT BAR (SEE ROADWAY STANDARD NO. 1165.01). TMIA MUST BE NCHRP-350 TEST LEVEL 3 (60+MPH) APPROVED.



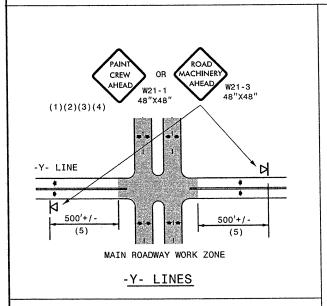
ADVANCE WARNING VEHICLE WITH TRUCK MOUNTED CHANGEBLE MESSAGE SIGN (CMS) AND LIGHT BAR. MESSAGE SIGN LETTER HEIGHT SHOULD BE A MINIMUM OF 10 INCHES.

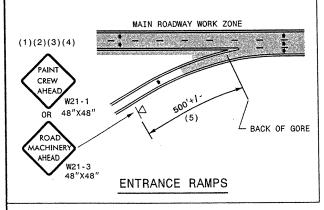


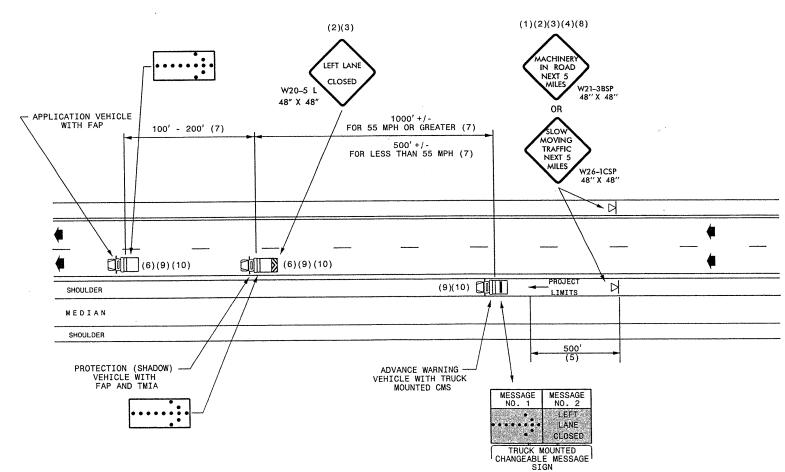
FLASHING ARROW PANEL, TYPE "B" (60"X30" MIN.), APPROPRIATE DIRECTION INDICATED



CHANGEABLE MESSAGE SIGN







MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)
PLACING PAVEMENT MARKING OR MARKERS
ON NON-INTERSTATE MULTILANE DIVIDED ROADWAYS

DRAWING NUMBER 7
IMPLEMENTATION DATE: 07/01/97
REVISED: 11/03/04