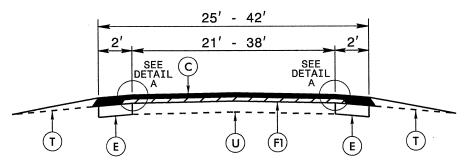
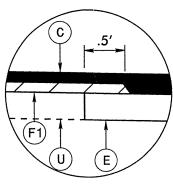
STATE PROJECT NO. SHEET NO. TOTAL SHEETS 2012 ORANGE COUNTY 7C.068096, ETC 7C.068096 7C.068097 7C.068098 4 (3) \triangleright z O 154 1009 ш O ! 0 \subseteq Z 1950 1005 (2)CHATHAM COUNTY



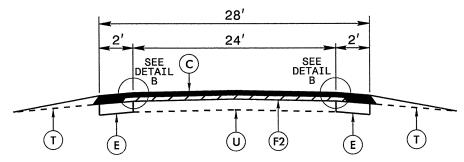
*NOTE: ON MAP 1: NO PAVEMENT ON BRIDGE #84 FROM STA. 71+45 TO STA. 72+35

TYPICAL SECTION NO. 1

TO BE USED ON MAPS 1, 3, AND 4

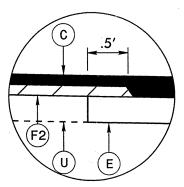






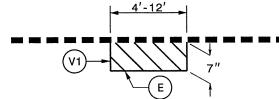
TYPICAL SECTION NO. 2

TO BE USED ON MAP 2



DETAIL B

MILLING DETAIL 1



MILL EXISTING ASPHALT PAVEMENT 7" IN DEPTH AND FILL WITH BASE COURSE, TYPE B25.0B AT LOCATIONS AS DIRECTED BY THE ENGINEER.

TO BE USED IN CONJUCTION WITH MAPS 1, 2, 3, AND 4

MAP 1: 7" MILLING = 4386 SYD

BASE COURSE, TYPE B25.0B = 1750 TON

MAP 2: 7" MILLING = 752 SYD BASE COURSE, TYPE B25.0B = 300 TON

MAP 3: 7" MILLING = 2005 SYD

BASE COURSE, TYPE B25.0B = 800 TON

MAP 4: 7" MILLING = 406 SYD

BASE COURSE, TYPE B25.0B = 162 TON

PAVEMENT SCHEDULE

SHEET TOTAL SHEETS

7C.068096 7C.068097 7C.068098

2

- C PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
- PROP. APPROX. 7" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
- F1 AST MAT COAT, #67 STONE

STATE

N.C.

PROJECT NO.

7C.068096, ETC

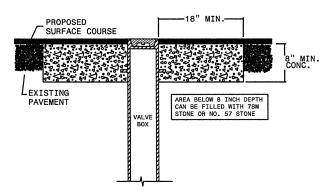
- F2 AST MAT COAT, #78M STONE
- T SHOULDER RECONSTRUCTION, AS DIRECTED BY THE ENGINEER.
- J EXISTING PAVEMENT.

V1 7" MILLING

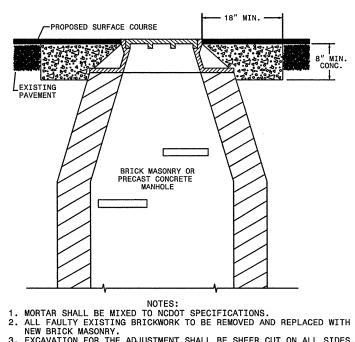
PTH AND
OCATIONS AS
2, 3, AND 4

TON
TON
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STANDARD CONCRETE ENCASEMENT FOR MANHOLE & VALVE CASTINGS IN PAVEMENT DETAIL DRAWING NO. 858.01

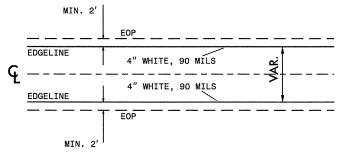


USE RAPID SET GROUT, MORTAR, OR CONCRETE CLASS B CONCRETE MAY BE USED WHEN ADJUSTMENTS ARE NOT IN THE TRAVEL LANE.

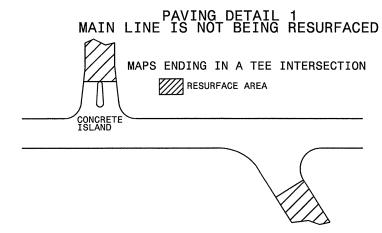


- 3. EXCAVATION FOR THE ADJUSTMENT SHALL BE SHEER CUT ON ALL SIDES. 4. RAPID SET GROUT, MORTAR, OR CONCRETE SHALL BE USED

STRIPING DETAIL 1 GENERAL STRIPING DETAIL FOR ENTIRE PROJECT

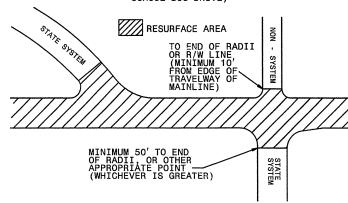


- 1. TO BE USED IN CONJUNCTION WITH TYPICAL SECTION NO. 1, 2, 3, & 4
- USE IN CONJUNCTION WITH THE EXISTING PAVEMENT MARKINGS TO ESTABLISH THE STRIPING.
- 3. USE IN CONJUNCTION WITH THE NCDOT STANDARD DRAWINGS.

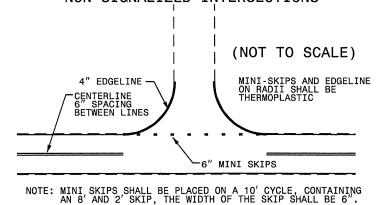


PAVING DETAIL 2 MAIN LINE IS BEING RESURFACED

NOTE: NON-SYSTEM (CITY STREET, PRIVATE DRIVE, SCHOOL BUS DRIVE)



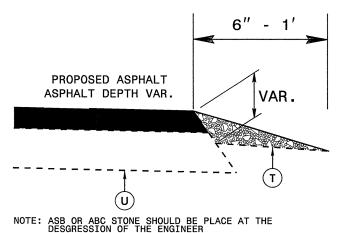
TO BE USED AT ALL NON-SIGNALIZED INTERSECTIONS



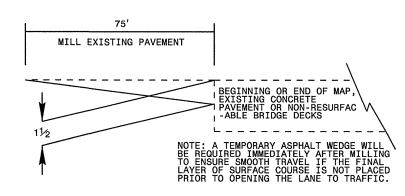
TOTAL SHEET STATE PROJECT NO. NO. N.C. 7C.068096, ETC 3 4

INCIDENTAL STONE SHOULDER DETAIL

7C.068096 7C.068097 7C.068098



INCIDENTAL MILLING DETAIL



PAVEMENT SCHEDULE

PROP. APPROX. 11/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. PROP. APPROX. 7" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD. IN EACH OF TWO LAYERS AST MAT COAT, #67 STONE AST MAT COAT, #78M STONE SHOULDER RECONSTRUCTION, AS DIRECTED BY THE ENGINEER. EXISTING PAVEMENT.

7" MILLING

PROJECT NO.	SHEET NO.	TOTAL NO.
7C.068096, 7C.068097	4	А
7C.068098,	4	4

SUMMARY OF QUANTITIES

PROJECT	COUNTY	МАР	ROUTE	DESCRIPTION	ТҮР	FINAL SURFACE TESTING REQUIRE D	LENGTH	WIDTH	BORROW	INCIDENTAL	SHOULDER		INCIDENTAL MILLING	ASPHALT CONC BASE COURSE, TYPE B25.0B	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A	ASPHALT BINDER FOR PLANT MIX	ASPHALT SURFACE TREATMENT, MAT COAT, #78M STONE	GENERIC PAVING ITEM - [ASPHALT SURFACE TREATMENT, MAT COAT, #67 STONE]	ADJ. OF MANHOLES	ADJUSTMEN T OF METER BOXES OR VALVE BOXES	SEEDING & MULCHING	GENERIC EROSION CONTROL ITEM - [RESIDENTIA L SEEDING]
NO		NO			NO		мі	FT	СУ	TONS	SMI	SY	SY	TONS	TONS	TONS	SY	SY	EA	EA	AC	AC
		110			1	NO	0.004	35	19	263	10.12	4,386	292	1,754	8	78	1	82			1.84	1.84
		1 1			1	NO	0.005	28-37						5	9	1		97				
				FROM ALAMANCE COUNTY LINE TO NEW	1	NO	0.028	28						30	44	4		483				
				PAVEMENT AT SR 1950 (CARL DURHAM ROAD)	1	NO	0.227	22-28						244	321	32		3,467				
76.060006	0	1 1	SR 1005 (OLD GREENSBORO ROAD)		1	NO	1.085	22						1,164	1,419	146		14,643				
7C.068096	Orange	1 1			1	NO	0.004	22-27					208	4	6	1		59				
				BRIDGE #84	1	NO	0.017	27														
					1	NO	0.005	21-27					200	5	7	1		70			·	
				_		NO	3.688	21						3,957	4,767	493		47,606				
			TOTAL I			5.063	***************************************	19	263	10.12	4,386	700	7,163	6,581	756		66,507			1.84	1.84	
			TOTAL FOR PROJ NO. 7	C.068096		<u></u>	5.063		19	263	10.12	4,386	700	7,163	6,581	756	<u> </u>	66,507	<u> </u>		1.84	1.84
7C.068097	Orange	2	SR 1919 (SMITH LEVEL ROAD)	FROM JOINT 582' SOUTH OF SR 1988 (WOODCREST DRIVE TO JOINT NORTH US 15-501	2	NO	1.854 1.854	24	19 19	120 120	3.71 3.71	752 752		2,289 2,289	2,715 2,715	283 283	27,192 27,192		1	6	0.67 0.67	0.67 0.67
	TOTAL FOR MAP NO. 2 TOTAL FOR PROJ NO. 7C.068097					-	1.854		19	120	3.71	752	 	2,289	2,715	283	27,192		1	6	0.67	0.67
ļ			TOTAL FOR PROJ NO. 7	C.008097			1.034	L	1 19	120	3.71	732	<u> </u>	2,203	2,713	203	27,132	<u> </u>	1		0.07	1 0.07
		T 1		T T	1	NO	2.76	21	19	165	7.00	406	T	3,123	3,518	373	T	35,628			1.27	1.27
				'	1	NO	0.14	26-30						150	205	20		2,179				
				FROM SR 1113 (ROCKY RIDGE ROAD) TO SR 1009	1	NO	0.054	30	T					58	130	11		982				
		3	SR 1113 (DAIRYLAND ROAD)	(OLD NC 86)	1	NO	0.092	22-26		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				99	134	13		1,455				
					1	NO	0.343	22						368	435	45		4,626				
7C.068098	Orange				1	NO	0.112	30-38						120	185	18		2,032				
			TOTAL FOR MAP NO. 3				3.501		19	165	7.00	406		3,918	4,607	480		46,902			1.27	1.27
		4	SR 1177 (DAIRYLAND ROAD)	FROM SR 1006 (ORANGE GROVE ROAD) TO SR 1113 (ROCKY RIDGE ROAD)	1	NO	3.278	21	19	145	6.56	2,005		4,317	4,061	462		42,313			1.19	1.19
	l	TOTAL FOR MAP NO. 4					3.278		19	145	6.56	2,005		4,317	4,061	462		42,313			1.19	1.19
	тот	TAL FOR	PROJ NO. 7C.068098				6.779		38	310	13.56	2,411		8,235	8,668	942		89,215			2.46	2.46
											.,					7			·			
		GI	RAND TOTAL				13.696		76	693	27.39	7,549	700	17,687	17,964	1,981	27,192	155,722	1	6	4.97	4.97

THERMOPLASTIC AND PAINT QUANTITIES

							4685000000-E	4686000000-E	4688000000-	4690000000-E	4710000000-E	4721000000-E	4810000000-E		4820000000-E	4900000000-N
PROJECT	COUNTY	MAP	MAP ROUTE DESCRIPTION	LENGTH	WIDTH	4" X 90 M	4" X 120 M	6" X 90 M	6" X 120 M	24" X 120 M	THERMO	4" WHITE	4" YELLOW	8" WHITE	YELLOW &	
							WHITE	YELLOW	WHITE	WHITE	WHITE	MSG	PAINT	PAINT	PAINT	YELLOW
							THERMO	THERMO	THERMO	THERMO	THERMO	SCHOOL 120			!	MARKERS
												M			1	
NO		NO					LF	LF	LF	LF	LF	EA	LF	LF	LF	EA
				FROM ALAMANCE COUNTY LINE TO NEW												
		1	SR 1005 (OLD GREENSBORO ROAD)	PAVEMENT AT SR 1950 (CARL DURHAM ROAD)	5.063	22	53,470	46,786		212					-	375
7C.068096	Orange TOTAL FOR MAP NO. 1		5.063		53,470	46,786		212						375		
TOTAL FOR PROJ NO. 7C.068096					5.063		53,470	46,786		212				<u></u>		375
							<u> </u>	1	L	<u>L</u> ,	L	L	L		L	L
				T	·	г	T	т	т	τ	i	1	r	T	T	r
				FROM JOINT 582' SOUTH OF SR 1988 (WOODCREST		ļ				ľ						
			CD 4040 (CD 4)TH L CL(EL DOAD)	DRIVE TO JOINT NORTH US 15-501	1.854	24	18,380	18,591			50	6				250
70.00007	0	2	SR 1919 (SMITH LEVEL ROAD)	FOR MAD NO. 2	1.854	24	18,380	18,591		 	50	6		 	 	250
7C.068097 Orange TOTAL FOR MAP NO. 2					1.854		18,380	18,591		 	50	6		 	-	250
	TOTAL FOR PROJ NO. 7C.068097						18,360	10,351	 	+	- 30	 		L		250
					1	L	1	1	I			L	l		1	
		Г		FROM SR 1113 (ROCKY RIDGE ROAD) TO SR 1009		Π	T		T	T	T	T		T	T	
		3	SR 1113 (DAIRYLAND ROAD)	(OLD NC 86)	3.501	21	900		214				72,638	69,084	742	275
		<u> </u>		FOR MAP NO. 3	3.501		900		214				72,638	69,084	742	275
1				FROM SR 1006 (ORANGE GROVE ROAD) TO SR 1113												
		4	SR 1177 (DAIRYLAND ROAD)	(ROCKY RIDGE ROAD)	3.278	21	450		76				66,540	60,058		250
7C.068098	Orange		TOTAL	FOR MAP NO. 4	3.278		450		76				66,540	60,058		250
TOTAL FOR PROJ NO. 7C.068098				6.779		1,350		290				139,178	129,142	742	525	
TOTAL FOR PROJ NO. /C.000030													268,320			
																,
	GRAND TOTAL						73,200	65,377	290	212	50	6	139,178	129,142	742	1,150
										<u></u>	<u> </u>	<u> </u>	268	3,320		

PROJ. REFERENCE NO. SHEET NO. 70.068096 SEE LEFT 70.068097 TCP-1 70.068098 TWO-WAY UNDIVIDED ** (L-LINES) **HIGHWAY WORK ZONE** CAROLINA TRANSPORTATION HIGHWAYS RECOMMENDED MINIMUM WORK SIGN SPACING AHEAD W20-1 48"X48" S ROAD WORK POSTED SPEED LIMIT Z NORTH 9F RALEIGH ≥ 55 DIVISION 0F 9F -CONSTRUCTION LIMITS-END WORK ROAD WORK G20-2a 48"X24" ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES) -Y- LINES MAIN ROADWAY WORK ZONE DIGNS FOR CONSTRUCTION G20-2a LIMITS 48"X24" 回 S DRAWING / UNDIVIE WARNING CONSTRUCTION WORK -WA ONE **GENERAL NOTES** YWO X - 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. 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. LEGEND - ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED. ├ STATIONARY SIGN - 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 ■ DIRECTION OF TRAFFIC FLOW SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110. SHEET 1 OF 1 - WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS. APPROVED:_ DATE: DETAIL DRAWING FOR TWO-WAY - DO NOT BACK BRACE SIGN SUPPORTS. UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS - ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED

REVISIONS

7–98 10/01 10–98 03/04 01/01 11/04

SEAL

SIGNS AS DETERMINED BY THE ENGINEER.

GENERAL NOTES

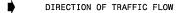
- (1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS:
 - A. TRUCK MOUNTED SIGNS
 - B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
 - C. GROUND MOUNTED ADVANCE WARNING SIGNS (MUST CIRCLE TO PICK UP SIGNS)
 - D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS) (MUST USE CIRCLE TO PICK UP SIGNS)
- (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.

(1)(2)(3)(4)(8)

- (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

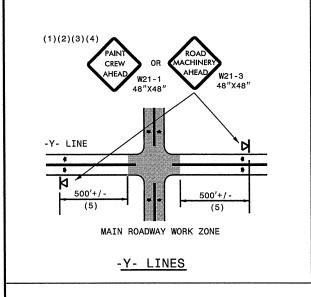
PORTABLE SIGN. SIGNS MUST BE NCHRP-350 AND NCDOT APPROVED.

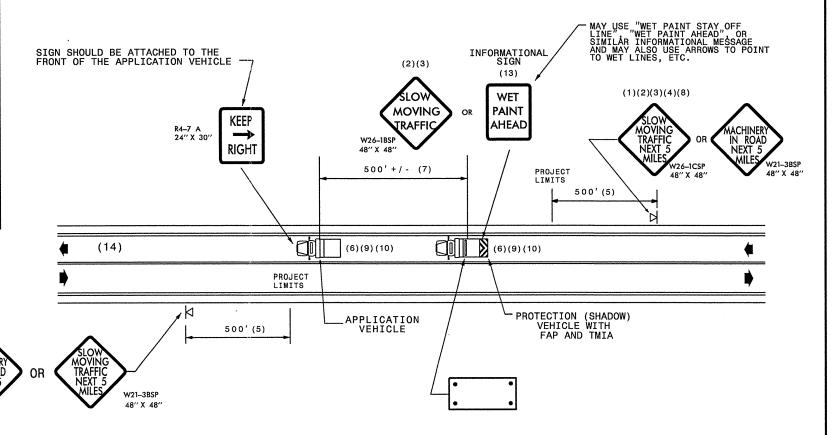


APPLICATION VEHICLE WITH LIGHT BAR

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