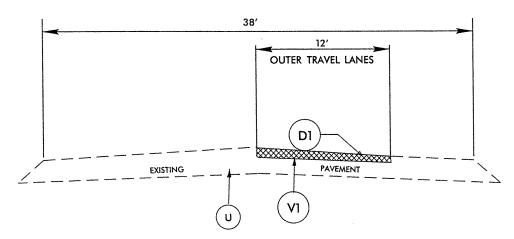


TYPICAL SECTION NO.1

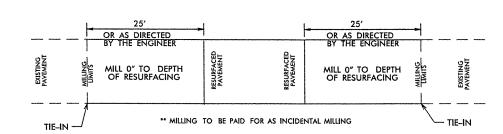
CONTRACTOR SHALL ALSO REPLACE MILLED RUMBLE STRIPS ON BOTH SHOULDERS PER RDY STD. DWG 665.01

USE THIS TYPICAL ON RAMPS ALSO.



TYPICAL SECTION NO. 2

* NOTE: TYPICAL NOT USED ON RAMPS.

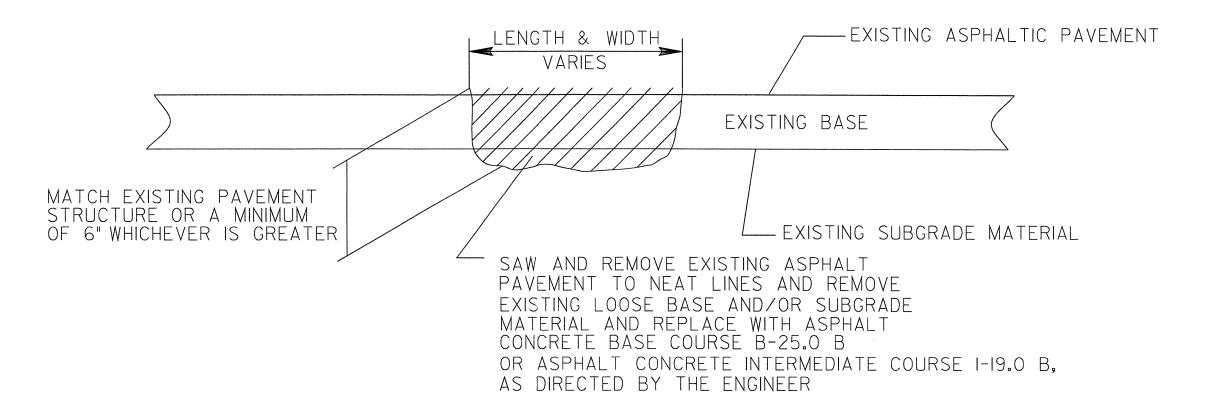


PAVEMENT TIE-IN DETAIL

	PAVEMENT SCHEDULE
C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5C, AT AN AVERAGE RATE OF 168 LBS. PER \$Q. YD.
D1	PROP. APPROX. 2.5 " ASPHALT CONC. INTERMEDIATE COURSE, TYPE 119.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
V1	MILLING 2.5"
T	AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
8CR.10761.17	3

DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR TO RESURFACING DETAIL



PROJECT NO.	SHEET NO.	TOTAL NO.
8CR.10761.17	4	

SUMMARY OF QUANTITIES

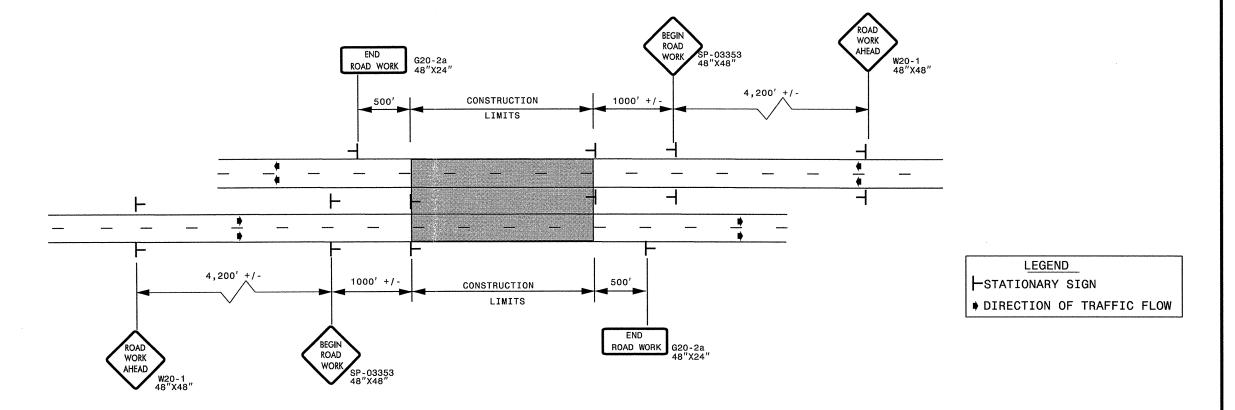
	COUNTY		DESCRIPTION	ТҮР	FINAL SURFACE TESTING REQUIRED	LENGTH	WIDTH	ITEM AGGREGATE SHOULDER BORROW	RECONSTRU CTION		MILLING	INTERMEDIA TE COURSE, I19.0C	SURFACE COURSE, S9.5C	PG 64-22 PLANT MIX	PG 70-22 PLANT MIX	PATCHING EXISTING PAVEMENT	RUMBLE STRIPS
NO	NO NO			NO		MI	FT	TON	SMI	SY	SY	TONS	TONS	TONS	TONS	TONS	LF
8CR.10761.17	7 Randolph 1	I-73 NB	FROM MONTGOMERY CO TO BEGIN. OF TIP PROJECT I-4407	1,2	YES	8.11	38	1,900	18.22	57,094	600	8,695	17,000	409	1,020	350	85,642
TOTA	L FOR MAP NO.	.1				8.11		1,900	18.22	57,094	600	8,695	17,000	409	1,020	350	85,642
								,									
	2	I-73 SB	FROM BEGIN. OF TIP PROJECT I-4407 TO MONTGOMERY CO	1,2	YES	8.11	38	1,900	18.22	57,094	600	8,700	17,000	409	1,020	600	85,642
TOTA	L FOR MAP NO.	2				8.11		1,900	18.22	57,094	600	8,700	17,000	409	1,020	600	85,642
		T															
TOTAL FOR	PROJ NO. 8CR.	10761.17				8.11		3,800	36.44	114,188	1,200	17,395	34,000	818	2,040	950	171,284
G	RAND TOTAL					8.11		3,800	36.44	114,188	1,200	17,395	34,000	818	2,040	950	171,284

THERMOPLASTIC AND PAINT QUANTITIES

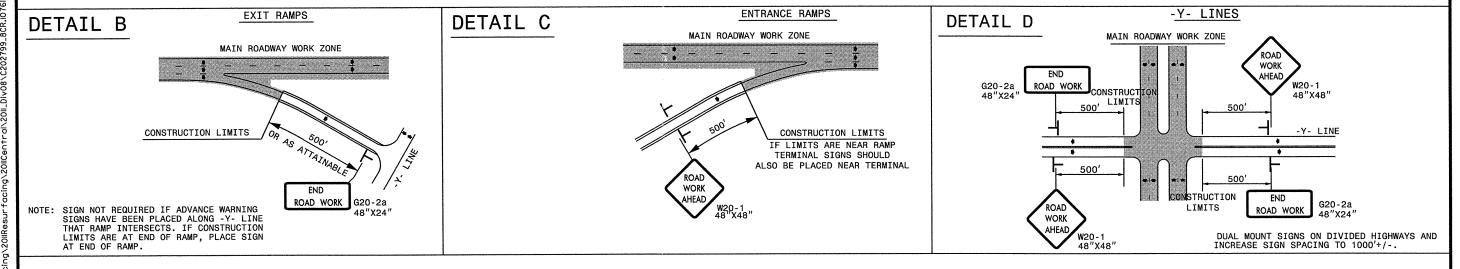
	T	T	T		4589000000-N	4510000000-N	0000-N 4688000000-E		4690000000-E 4700000000-E		4725000000-E	4815000000-E		4825000000-E 4900000000-I		4775000000-E
PROJECT	COUNT	Y MAP	ROUTE	DESCRIPTION	GENERIC TRAFFIC	LAW ENFORCEMENT	6" X 90 M	6" X 90 M	6" X 120 M	12" X 90 M	THERMO STR	6" WHITE	6" YELLOW	12" WHITE	CRYSTAL &	COLD
	1				CONTROL ITEM -		WHITE	YELLOW	WHITE	WHITE	ARROW 90 M	PAINT	PAINT	PAINT	RED	APPLIED
	İ				TRAFFIC CONTROL		THERMO	THERMO	THERMO	THERMO			1		MARKERS	PLASTIC
		1									1					PAVT.
1	1	-														MARKING
		1				·										LINES, TYPE
		-						•							1	111(6")
NO		NO	1 1		LS	HR	LF	LF	LF	LF	EA	LF	LF	LF	EA	LF
8CR.10761.1	7 Randolp	oh 1	I-73 NB	FROM MONTGOMERY CO TO BEGIN. OF TIP PROJECT I-4407		20	53,530	42,825	10,750	2,000	6	53,530	48,660	1,500	560	375
TOTA	L FOR M	AP NO.	1				53,530	42,825	10,750	2,000	6	53,530	48,660	1,500	560	375
							***************************************						<u> </u>		<u> </u>	
		2	1-73 SB	FROM BEGIN. OF TIP PROJECT I-4407 TO MONTGOMERY CO		20	53,530	42,825	10,750	2,000	6	53,530	48,660	1,500	560	375
TOTA	AL FOR M	AP NO.	2				53,530	42,825	10,750	2,000	6	53,530	48,660	1,500	560	375
					<u> </u>	40	407.000	25.050	21,500	4.000	12	107,060	97.320	3,000	4 400	750
TOTAL FOR	PROJ NO	D. 8CR.	10761.17		7	40	107,060	85,650	21,500	4,000	12			3,000	1,120	/ 50
					<u> </u>	<u> </u>	192,710		.1			204,380		L	l	
					T	T 40	407.000	95.CE0	21.500	4.000	12	107.060	97.320	2.000	1 4 4 2 0	750
GRAND TOTAL			11	40	107,060	85,650	∠1,500	4,000	12			3,000	1,120	100		
						L	192	,710	<u> </u>	<u> </u>		204	4,380	<u> </u>	<u> </u>	<u> </u>

PROJ. REFERENCE NO. SHEET NO. 8CR.10761.17

DETAIL A

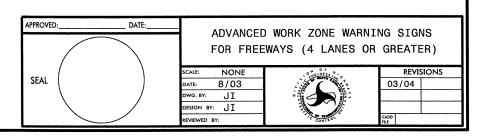


* USE THE "\$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "\$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.



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 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.
- (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.

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.



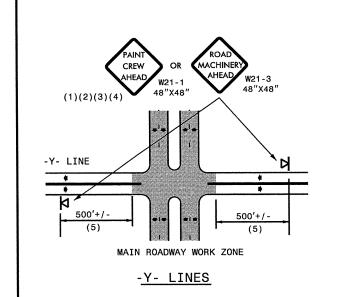
ADVANCE WARNING VEHICLE WITH TRUCK MOUNTED CHANGEBLE MESSAGE SIGN (CMS) AND LIGHT BAR. MESSAGE SIGN LETTER HEIGHT SHOULD BE A MINIMUM OF 10 INCHES.

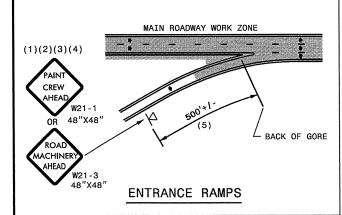


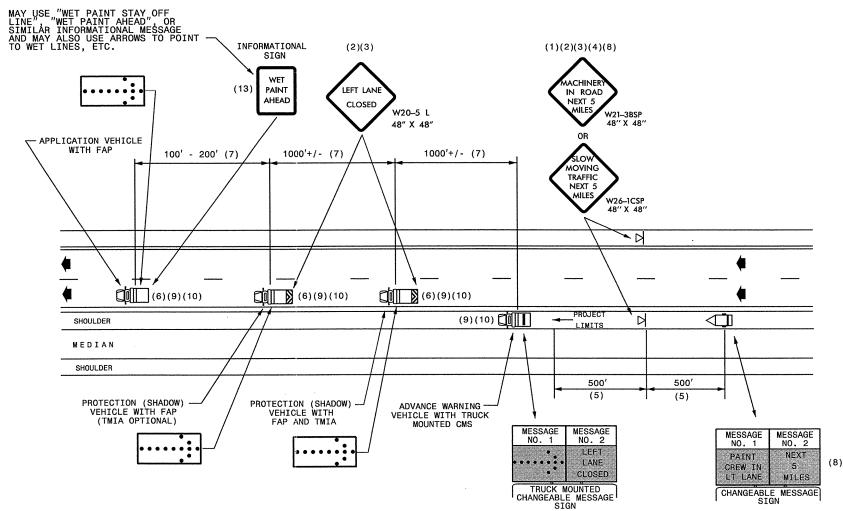
FLASHING ARROW PANEL, TYPE "B" (60"X30" MIN.), APPROPRIATE DIRECTION INDICATED



CHANGEABLE MESSAGE SIGN







MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)
PLACING PAVEMENT MARKING OR MARKERS
ON INTERSTATE ROADWAYS

DRAWING NUMBER 8
IMPLEMENTATION DATE: 11/03/04
REVISED: