99(92)

OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PART COUNT				PROJEC	T TERMINII	NET LENGTH	TOUNCLUD	CITY	\## A CE
	COUNTY	ROUTE	SECTIONS	BEGIN	END	MILES	TOWNSHIP	CITT	VILLAGE
1	FAI	SR 188	(14.48-14.83)(16.53)	14.48	16.74	1.75		LANCASTER	
2	FAI		(16.02)(16.74)(22.64)	16.02	26.53	9.58			
3	FAI	SR 188	(21.89 - 22.30)	21.89	22.64	0.72			PLEASANTVILLE
								, *	
								1/	
				-				1.19	
			'						

FAI-188-14.48 CALC, BY RLM DATE 1-2.5-9/
CHKD. BY SRM DATE 1-27-9/

FHWA REGION STATE FEDERAL PLAN NO 5 OHIO PLAN NO. ///



The Standard 19<u>91</u> Specifications of the State of Ohio, Department of Transportation, including changes and Supplemental Specifications listed in the plans and proposal shall govern these improvements.

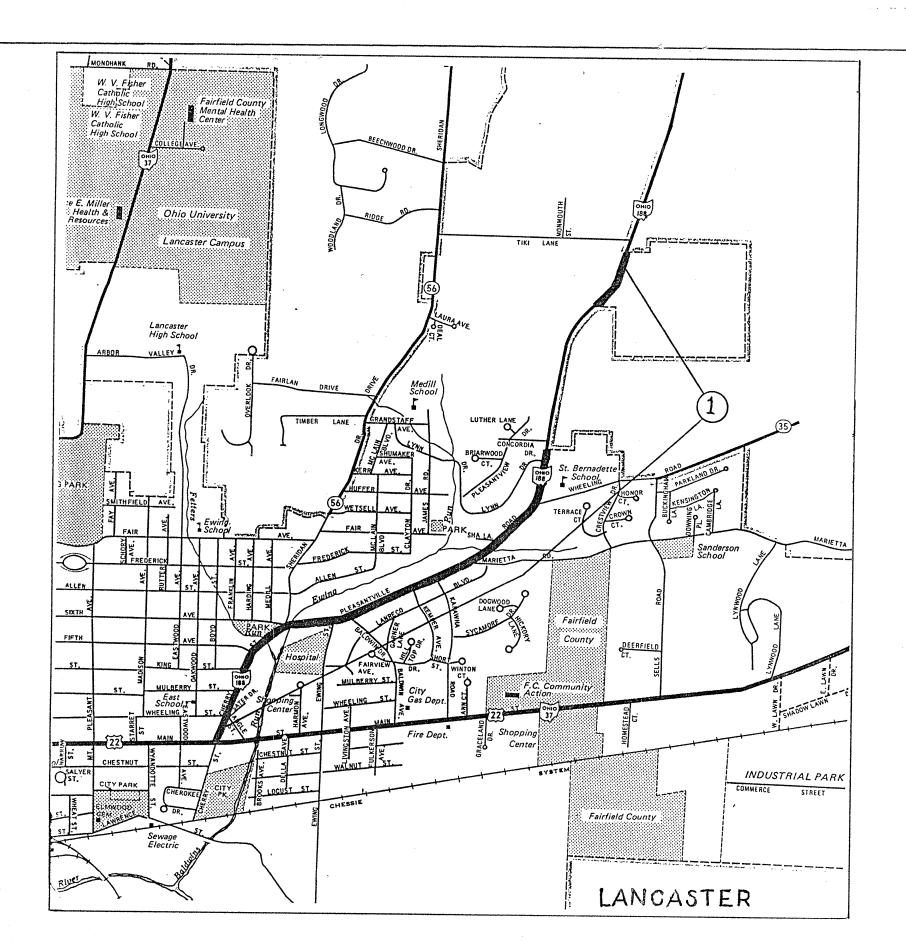
I hereby approve these plans and declare that the making of these improvements will require the closing of the highways to traffic on Parts No. NONE and that detours will be provided by State forces. The closing to traffic of the highways will not be required on Parts No. 1,2&3 and provisions for the maintenance and safety of traffic will be indicated in the proposal.

Approved 9-30-91 District Deputy Director of Transportation Approved. DEN Date _10-8-91 Approved Engineer of Maintenance <u>Alexander H. Hynd</u> Deputy Director, Operations Approved Date 12-2-91 Approved Assistant Deputy Director, Date: Program Development Approved Date_ Chief Engineer, Construction Approved Chief Engineer, Design Date . Approved Assistant Director, Date Department of Transportation Director, Department of Transportation Approved
Date 12-2-91

Reynoldsburg 250 LICKING 130 COUNTY	LOCATION	MAP
Columbus		
Cord Winchester Winche		
COUNTY		
	N	·
FAIRFIELD COUNTY		
H O C K I N G	+	

PORTION TO BE IMPROVED

1	DARD MNGS	SUPPLEMENTAL SPECIFICATIONS					
BP-5	10-01-87	SS	802	4-13-90			
BP-6	10-01-87						
MT-97,10	04-29-88		·				
MT-97.11	10-04-89						
MT-99.10	11-14-86						
MT-99.20	04-29-88						

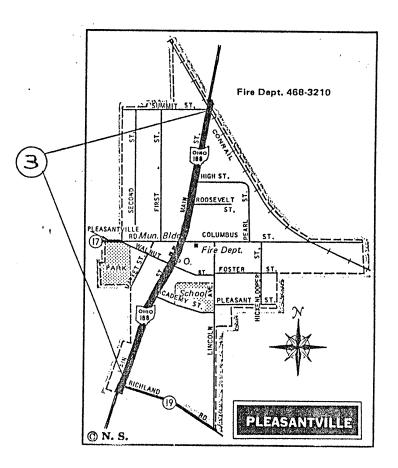


CALC. BYRLM DATE 7-1-91 CHKD. BY SRM DATE 1-27-91

PLAN NO. 176



FAI-188-14.48



LOCATION MAPS FOR LANCASTER AND PLEASANTVILLE

CALC. BY RLM DATE 9-25-91 CHKD. BY JRM DATE 9-27-91

PLAN NO. 176



GENERAL NOTES

SHOULDER RESTORATION

IN ORDER TO PROVIDE POSITIVE DRAINAGE FROM THE ROADWAY SURFACE TO THE SHOULDER BREAK, (6' MINIMUM WIDTH OR AS DIRECTED BY THE ENGINEER) THE EXISTING ROADWAY SHOULDERS SHALL BE GRADED ANDSHAPED USING A GRADER OF ADEQUATE SIZE TO PERFORM THE WORK TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE GRADING AND SHAPING WORK, INCLUDING LABOR AND INCIDENTALS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL — GRADER RENTAL, AND SHALL BE FOR THEACTUAL NUMBER OF GRADER HOURS WORKED.

ALL EXCESS MATERIAL REMAINING AFTER THE GRADER WORK IS COMPLETED, SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. PAYMENT FOR ALL OF THE ABOVE REMOVAL WORK SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL — LOADER RENTAL, AND SHALL BE FOR THE ACTUAL NUMBER OF LOADER HOURS WORKED. ANY OTHER EQUIPMENT, LABOR OR INCIDENTALS REQUIRED TO COMPLETE THIS ITEM SHALL BE INCLUDED THEREIN FOR PAYMENT. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE PURPOSES.

ITEM SPECIAL - GRADER RENTAL

ITEM SPECIAL - LOADER RENTAL

PART 1	PART 2	PART 3		
1	29	2		
1	14	1		

PAVEMENT MARKING

STOP LINES, CROSSWALK LINES, CHANNELIZING LINES, TURN ARROWS, ETC., SHOWN ON THE PLAN ARE TAKEN FROM EXISTING MARKINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PLACE NEW PAVEMENT MARKINGS AS NEAR AS POSSIBLE TO THE EXISTING LOCATIONS UNLESS OTHERWISE DESIGNATED BY THE ENGINEER.

614 MAINTAINING TRAFFIC PROVISIONS FOR INSTALLATION OF BARRIER REFLECTORS

TRAFFIC SHALL BE MAINTAINED ON THE EXISTING PAVEMENT AT ALL TIMES EXCEPT AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL SET UP AND OPERATE HIS EQUIPMENT IN SUCH A MANNER THAT THE ENCROACHMENT UPON THE TRAVELED WIDTH OF PAVEMENT WILL BE KEPT TO A MINIMUM.

ALL TRAFFIC CONTROL DEVICES AND APPLICATIONS SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS. WHEN IT IS NECESSARY TO CLOSE ALL OR PART OF A LANE, TRAFFIC CONTROL SHALL BE AS SHOWN ON DWG.MT-97.10. WHEN WORK CAN BE CONFINED TO THE SHOULDER TRAFFIC CONTROL SHALL BE SHOWN ON SHEET 25 OR FIGURE C-12 OF THE OMUTCD AS APPLICABLE

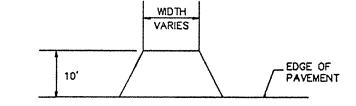
THE ENGINEER MAY SUSPEND WORK IN ORDER TO RELIEVE TRAFFIC CONGESTION AT ANYTIME. PAYMENTS FOR THIS WORK SHALL BE MADE UNDER ITEM 614, MAINTAINING TRAFFIC.

RESIDENCE AND COMMERICAL DRIVES

AN ESTIMATED QUANTITY OF ITEM 448 ASPHALT CONCRETE HAS BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEER TO PAVE APPROACH AREAS TO EXISTING DRIVEWAYS. PAVING SHALL EXTEND 10 FEET INTO THE DRIVEWAY, MEASURED FROM THE EDGE OF THE PAVEMENT, OR PAVED BERM. THICKNESS SHALL BE APPROXIMATELY THE SAME AS THE ROADWAY PAVEMENT AND/OR PAVED BERM. FIELD DRIVES OR OIL WELL DRIVES WILL NOT BE PAVED. ANY GRADING OF EXISTING DRIVES, TACK OR PRIME COAT, ALL MATERIAL, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK ON DRIVES SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1 AC-20 (DRIVEWAYS).

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSE DESCRIBED ABOVE.

PART 1 2 3 CU.YD. 5 117 18



EXTRA ASPHALT FOR SPOT-LEVELING

A QUANTITY OF 448 ASPHALT CONCRETE HAS BEEN INCLUDED IN THE PLAN TO BE USED AT THE DIRECTION OF THE ENGINEER FOR PRE-LEVELING WHERE THE PAVEMENT IS LOW OR DETERIORATED.

THE QUANTITY OF ITEM 448 SHOWN BELOW HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 448 ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1, AC-20,

PART	1	2	3	
CU.YD.	0	100	50 ⁽¹⁾	

(1) TO BE USED IN PLEASANTVILLE WHERE PAVEMENT WIDTH DOES NOT AGREE WITH WIDTH SHOWN ON PLAN SHEET AND FOR EXTRA AREAS NOT SHOWN ON PLAN.

ITEM 408 BITUMINOUS PRIME COAT

AFTER COMPLETION OF PRIME COAT ANY SUBSEQUENT TREATMENT SHALL BE WHEN DIRECTED BY THE ENGINEER.



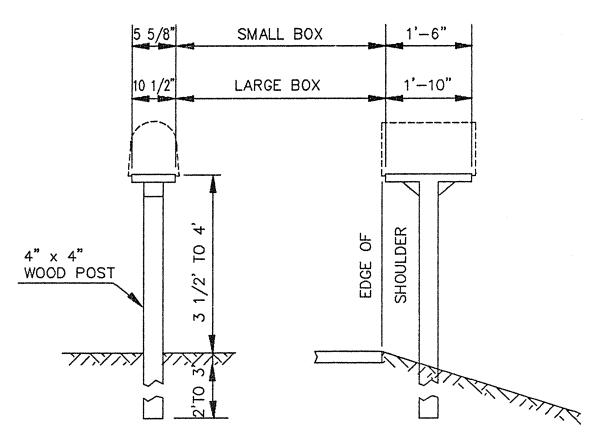
GENERAL NOTES

ITEM SPECIAL - MAILBOX SUPPORTS

THIS ITEM SHALL CONSIST OF REPLACING AND RESETTING DESIGNATED MAILBOX SUPPORTS WITH PRESSURE TREATED FOUR INCH (NOMINAL) TIMBER POSTS MEETING AASHTO M 133-81 AWPA P 8. MAILBOX SUPPORTS SHALL BE CONSTRUCTED AS PER THE DRAWING ON THIS SHEET. ALL MATERIAL, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE REMOVAL AND INSTALLATION OF THE EXISTING MAILBOX ON THE NEW TIMBER POSTS AND RESETTING THE MAILBOX POSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL — MAILBOX SUPPORTS.

THE FOLLOWING QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE PURPOSE.

ITEM SPECIAL - MAILBOX SUPPORTS PART 1 PART 2 PART 3 0 39 0



TYPICAL MAILBOX LOCATION AND MOUNTING HEIGHT

ITEM 617 COMPACTED AGGREGATE, TYPE A, AS PER PLAN

ALL AGGREGATE SHALL BE 100% CRUSHED LIMESTONE.

MAIL BOX TURN OUTS

A QUANTITY OF ASPHALT CONCRETE HAS BEEN PROVIDED IN THE PLAN TO COVER MAIL BOX TURN OUTS. TURN OUTS SHALL BE PAVED AS SHOWN IN THE DETAIL IN DRAWING BP-6, 10-1-87.

ANY EXTRA GRADING OF THE SHOULDERS, PRIME OR TACK COAT, MATERIALS, LABOR, EQUIPMENT TOOLS AND INCIDENTALS NECESSARY TO COMPLETE MAIL BOX TURN OUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 448 ASPHALT CONCRETE SURFACE COURSE TYPE 1, AC-20, AS PER PLAN.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20, AS PER PLAN.

PART	1	2	3
CuYd.	4	110	0

PAVED SHOULDERS

THE SHOULDERS SHALL BE PAVED AT THE SAME TIME AS THE ROADWAY PAVING OR AS DIRECTED BY THE ENGINEER.

RAISED PAVEMENT MARKER REMOVED FOR STORAGE, AS PER PLAN

REMOVAL OF RAISED PAVEMENT MARKERS SHALL CONFORM WITH SECTION NO. 202.071 IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS MANUAL EXCEPT FOR THE FOLLOWING:

AFTER PAVEMENT MARKERS HAVE BEEN REMOVED BY THE CONTRACTOR, HE WILL THEN BE RESPONSIBLE TO TAKE THE REMOVED MARKERS TO A STATE GARAGE THAT WILL BE DESIGNATED BY THE ENGINEER. THE PROJECT ENGINEER SHALL GIVE THE DISTRICT MAINTENANCE ENGINEER 24 HOUR NOTICE PRIOR TO DELIVERY AND THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR FURNISHING ALL NECESSARY TRANSFER DOCUMENTATION WITH ALL DELIVERIES. PAYMENT FOR ALL WORK DESCRIBED ABOVE SHALL BE PAID FOR UNDER ITEM 202 RAISED PAVEMENT MARKERS REMOVED FOR STORAGE, AS PER PLAN.

CALC. BY HLM DATE 2-25-21 CHKD. BY 5RM DATE 4-21-41

PLAN NO. 176



GENERAL NOTES

ITEM 614 WORK ZONE MARKING SIGNS

A QUANTITY OF A EACH WORK ZONE MARKING SIGNS (B EACH "NO EDGE LINES" OW-167 AND C EACH "UNMARKED NO PASSING ZONES" OW-168) ARE CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

PART	1	2	3	
Α	5	32	6	
В	0	16	3	
C	5	16	3	

ITEM 254 PAVEMENT PLANING, BITUMINOUS

PAVEMENT PLANING SHALL BEGIN AT SLM 14.48(USR 22), USING A BUTT JOINT, AND CONTINUE TO SLM 16.04(WHERE CURB AND GUTTER ENDS). PLANING DEPTH SHALL BE 1 1/2". PLANING SHALL CONTINUE THRU BRIDGE NO. FAI—188—14.83 AND 14.94. PLANING FROM USR 22 TO SIXTH AVE.(CHERRY ST.) SHALL BE FROM CURB TO CURB. PLANING WHERE CONCRETE GUTTER IS EXPOSED SHALL BE BETWEEN THE CONCRETE GUTTERS. A BUTT JOINT SHALL BE PROVIDED AT SIXTH AVE. AND SHERIDAN AVE.. SEE DRAWING ON SHEET 13. INTERSECTING STREETS SHALL BE PLANED AS DIRECTED BY THE ENGINEER. BUTT JOINTS SHALL BE PROVIDED WHERE THE PLANING ENDS ON INTERSECTING STREETS. EXTREME CARE SHALL BE EXCERCISED TO AVOID DAMAGE TO EXISTING CATCH BASINS, MANHOLES AND VALVE BOXES. DO NOT DAMAGE STRUCTURAL EXPANSION JOINTS ON BRIDGE NO. FAI—188—1494. ALL PLANED AREAS SHALL BE OVERLAID WITH 1 1/2" OF ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC—20. THE PROPOSED PROFILE SHALL BE THE SAME AS EXISTING.

PLANING DEPTH IN PLEASANTVILLE SHALL BE 1 1/2". INTERSECTING STREETS SHALL BE PLANED AS DIRECTED BY THE ENGINEER. PLANING SHALL CONTINUE BEYOND THE RAILROAD CROSSING TO THE NORTH CORP. LINE. BUTT JOINTS SHALL BE PROVIDED AT THE RAILROAD CROSSING. PAVED BERM AREAS SHALL BE PLANED. PAYMENT FOR PLANING WILL BE AS MEASURED BY THE ENGINEER. PLANING QUANTITIES ARE SHOWN ON SHEETS 18 AND 19.

UTILITIES NOTIFICATION

COOPERATION WITH THE FOLLOWING UTILITY COMPANIES SHALL BE AS DESCRIBED IN SECTION 105.06 OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS.

COLUMBIA GAS TRANSMISSION CORP. SUNBERRY WOODS OFFICE PARK P.O. BOX 6164 4111 EXECUTIVE PARKWAY WESTERVILLE, OH 43081

ATTN: MARK BRODT (614) 895-5033

LANCASTER MUNICIPAL GAS COMPANY 1507 E. MAIN ST. LANCASTER, OH 43130

(614) 687-6670

GTE NORTH, INCORPORATED 131 NORTH COURT ST. CIRCLEVILLE, OH 43113

ATTN: GARY WACHENSCHWANZ, SR, ENGR.

(614) 474-5033

LANCASTER WATER DEPARTMENT 225 N. MEMORIAL DRIVE LANCASTER, OH 43130

ATTN: RICK MEACHEM

(614) 687-6631

COLUMBIA GAS OF OHIO 942 W. GOODALE BLVD. P.O. BOX 2586 COLUMBUS, OH 43212

ATTN: CHRISTINE POPELLA MYRON HOSKINS

(614) 460-2240

L. KENT HUSTON, PE CITY ENGINEER 104 E. MAIN ST. LANCASTER, OH 43130 (614) 460-2240

ITEM 802 BARRIER REFLECTORS

AN ESTIMATED QUANTITY OF TYPE A BARRIER REFLECTORS HAS BEEN INCLUDED IN THE PLAN TO BE INSTALLED ON ALL EXISTING TYPE 5 GUARDRAIL. REFLECTORS SHALL BE INSTALLED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 802 AS DIRECTED BY THE ENGINEER. THE ESTIMATED QUANTITIES SHOWN BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 802 BARRIER REFLECTORS, TYPE A

PART 1

20 EACH

PART 2

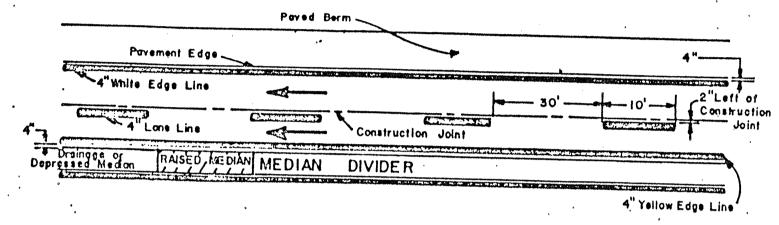
50 EACH

PAVEMENT MARKING TYPICAL DETAILS

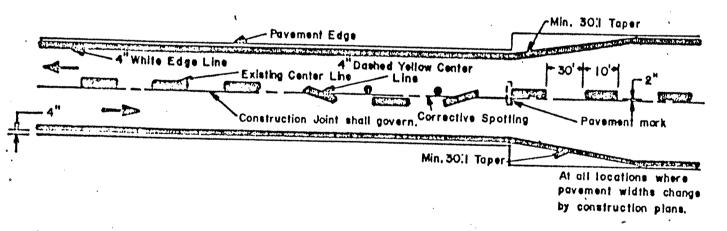
	FED.RD	STATE	PROJECT	
	5	0410		
•				

PLANNO. 1710

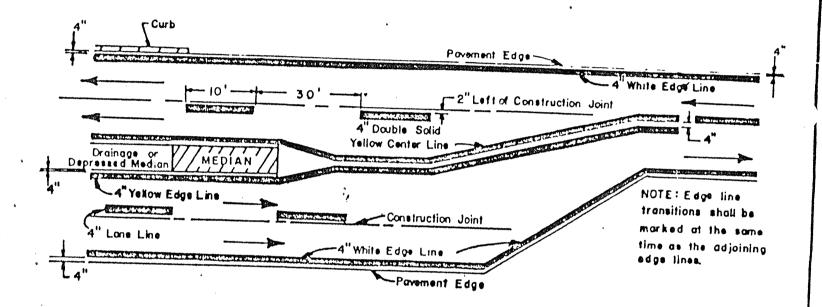
FREEWAY & EXPRESSWAY MAINLINE MARKINGS



TWO LANE MARKINGS



MULTILANE DIVIDED & UNDIVIDED HIGHWAY MARKINGS



NOTES:

CALC. BY RLM DATE 9-15-91

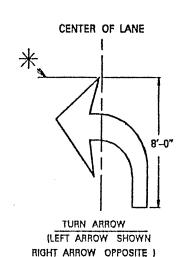
DATE 9-27-91

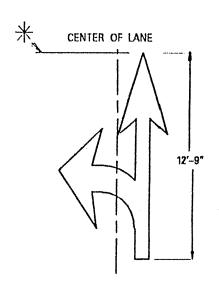
- 1. THE DISTANCE FROM THE PAVEMENT EDGE TO THE NEARSIDE EDGE OF THE EDGELINE MAY BE INCREASED WITH THE APPROVAL OF THE ENGINEER IN ORDER TO MAINTAIN UNIFORM LANE WIDTH.
- 2. SEE TC 72.20 FOR ENTRANCE AND EXIT RAMP MARKINGS.
- The cycle length for dashed lines shall be 40 feet plus or minus 6 inches. The minimum length of dash shall be sufficiently long to maintain a 3:1 ratio between length of gap and length of dash.

PAVEMENT MARKING DATE IVEC

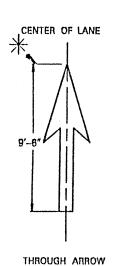
30-2

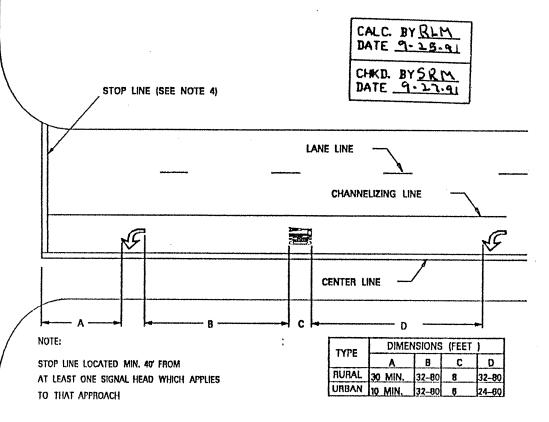


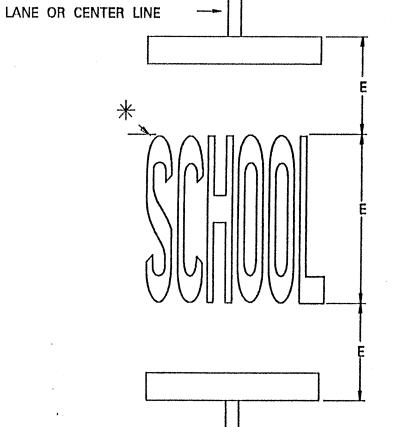




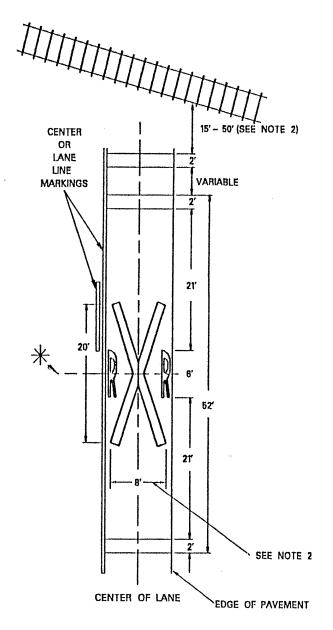
COMBINED ARROW (THREE HEAD DIRECTIONAL ARROWS CAN BE ACHIEVED BY THE COMBINATION OF TURN ARROWS.)







g	
TYPE	INCHES
	E
RURAL	96
URBAN	72



*	_		
	\int_{0}^{∞}		
		IN	

CENTER OF LANE

FED RD DIVIBION	STATE	MOJECT	
5	ОНО	·	



PLAN NO.

- 1. ON MULTI-LANE APPROACHES, THE TRANSVERSE LINES USED WITH THE RAILROAD SYMBOLS SHALL EXTEND ACROSS ALL APPROACH LANES AND SYMBOLS SHALL BE PLACED IN EACH APPROACH LANE.
- 2. THE RAILROAD SYMBOL SHALL BE LOCATED SO THAT THE W-94, "RAILROAD ADVANCE WARNING SIGN", IS WITHIN THE TWO TRANSVERSE BOUNDRY LINES OF THE RAILROAD SYMBOL, THE STOP LINE SHALL BE LOCATED FOR BEST SIGHT DISTANCE WITHIN 15 FEET TO 50 FEET OF THE NEAR EDGE OF THE TRACKS. STOP LINES SHALL BE PERPENDICULAR TO THE CENTER LINE OF THE ROADWAY, WIDTH OF "X" MAY VARY ACCORDING TO LANE WIDTH.
- 3. ON MULTI-LANE APPROACHES, THE TRANSVERSE LINES USED WITH THE WORD "SCHOOL" SHALL EXTEND ACROSS ALL APPROACH LANES WITH A SINGLE WORD "SCHOOL" CENTERED ACROSS THE APPROACH LANES. ON TWO LANE ROADWAYS, THE TRANSVERSE LINES SHALL EXTEND ACROSS THE ROADWAY WITH THE WORD "SCHOOL" CENTERED ACROSS THE ROADWAY, CENTER OR LANE LINES SHALL NOT PASS THROUGH THE "SCHOOL" MARKING.
- 4. THE STOP LINE SHOULD BE PLACED WHERE CROSS-CORNER VISION IS MAXIMUM, IN NO CASE MORE THAN 30 FEET OR LESS THAN 4 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY, FOR NORMAL INTER-SECTIONS A MAXIMUM DISTANCE OF 10 FEET IS RECOMMENDED.

IF A MARKED CROSSWALK IS PRESENT, THE STOP LINE SHOULD BE PLACED 4 FEET IN ADVANCE OF AND PARALLEL TO THE NEAREST CHOSSWALK.

- 5. FOR TRAFFIC PAINT AND POLYESTER APPLICATION, TEMPLATE GAPS SHALL BE FILLED WITH MARKING MATERIAL IN ACCORDANCE WITH 841.03, FOR EXTRUDED THERMOPLASTIC MATERIAL, THESE GAPS MAY REMAIN UNFILLED IN ACCORDANCE WITH 844.03.
- 6. USE STANDARD DIMENSIONS CONFORMING TO REQUIREMENTS OF OMUTCO SECTION 38-40 THROUGH 38-43 INCLUSIVE. ITHAT IS THE 1977 METRIC EDITION STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING WITH ERRATA.)



INDICATES STATION REFERENCE POINT

FAI-188-14.48 CALC. BY KLM DATE 1-15-91 CHKD. BY SRM DATE 1-27-97

PLAN NO.



		S.L	.M.	WHITE	EDGE LIN	E QU.	YELLOW	EDGE LIN	NE QU.	PAR	TICIPA	TION T	T	EDGE LINE	REMARKS	
CO.	ROUTE	FROM	ТО	TOTAL MILES	HIGHWAY	RAMP	TOTAL MILES	HIGHWAY	RAMP	IRG	FG	RSG	NON FED STATE	TOTAL		
													PART 1			
FAI	SR 188	16.53	16.74	0.42	0.21								PARII	0.42	LANCASTER SOUTH CORP. TO LANCASTER NORTH CORP.	
FAI	SR 188	16.74 21.89	21.89 21.92	10.30 0.03	5.15 0.03								PART 2	10.30 0.03	LANCASTER NORTH CORP. TO PLEASANTVILLE SOUTH CORP. RIGHT SIDE ONLY	
		22.64	26.53	7.78	3.89								PART 2	7.78	PLEASANTVILLE NORTH CORP. TO PERRY CO. LINE	
FAI	SR 188	TOTALS		18.11	9.07								PART 2	18.11		
FAI	SR 188	21.89	21.92	0.03	0.03								PART 3	0.03	LEFT SIDE ONLY	
		21.92	22.64	1.44	0.72								PART 3	1,44	PLEASANTVILLE SOUTH CORP. TO PLEASANTVILLE NORTH CORP.	
FAI	SR 188	TOTALS		1.47	0.75								PART 3	1.47		
							·									

EDGE LINE SUB-SUMMARY

CENTER LINE SUB-SUMMARY

FAI-188-14.48

CALC. BY RLM DATE 9-13-9 CHKD. BY SRM

PLAN NO. /76



		SI	M.	CEN ⁻ QU	TER LINES ANTITIES		PARTIC	IPATIO	N TYPE	
COUNTY	ROUTE	FROM	ТО	TOTAL MILES	EQUIVALENT SOLID LINE	IRG	FG	RSG	NON FED STATE	REMARKS
FAI	SR 188	14.48 16.53	16.02 16.74	1.54 0.21	3.08 0.42				PART 1 PART 1	USR 22 TO LANCASTER CORP.
FAI	SR 188	TOTALS	10,7 +	1.75	3.50				PART I	LANCASTER CORP. TO LANCASTER CORP.
FAI	SR 188	16.02 16.74 22.64	16.53 21.92	0.51 5.18	1.02 8.355				PART 2 PART 2	LANCASTER CORP. TO LANCASTER CORP. LANCASTER CORP. TO PLEASANTVILLE CORP.
FAI	SR 188	TOTALS	26.53	3.89 9.58	5.441 14.816				PART 2	PLEASANTVILLE CORP. TO PERRY CO. LINE
FAI	SR 188	21.92	22.64	0.72	1.109				PART 3	PLEASANTVILLE CORP. TO PLEASANTVILLE CORP.

QUANTITIES INCLUDE CL AROUND OUTSIDE OF PAINTED ISLAND

CONTINUED ON NEXT SHEET

DEPARTMENT OF TRANSPORTATION
M&R707 REV. 9-1-83

PART 2

PAVEMENT MARKING SUB-SUMMARY

CALC. BY RLM DATE 9- 25-91

PLAN NO. 176



									THERI	MOPLAS	TIC			-			
			TRANS	4" VERSE	STOP	12" CRUSSWALK		WORD PAVEM				ARROWS		RAILROAD SYMBOL ON	ISLAND	8" CHANNE	
ÇO.	ROUTE	SIDE	WHITE	YELLOW	LINE 24"	LINES	10	ILY	SCHOOL 72" 96		URN RIGHT	THRU	сомв.	PAVEMENT UN	MARKING YELLOW	LINE	REMARKS
			LIN.FT.	LIN.FT.	LIN.FT.				ACHEAC		EACH	EACH	EACH	EACH	SQ.FT.	LIN.FT.	
PART 1	SR 188 IN LANCASTER												<u> </u>				
	ON SR 188 @ USR 22				24	82	1			11			11			100	SEE SHEET 12
	ANGLE ST.	RT				90											SEE SHEET 12
	WHEELING ST.	LT				84											SEE SHEET 12
	ON SR 188 AFTER WHEELING ST.					72											SEE SHEET 12
	ALLEY	LT				34											PLACE AS DIRECTED
1997	MULBERRY ST.	LT				70											
	ALLEY	RT				20											
	ALLEY	LT				40											
	KING ST.	LT				64											`
	FIFTH AVENUE	LT				72	1										
	ON SR 188 @ SIXTH AVE.				20	180	1				2		2			118	SEE SHEET 13
	SHERIDAN DR.	LT	~		21		 									32	SEE SHEET 13
	ON SR 188 BEFORE GOSLIN DR.				37	174	1			1			1			64	SEE SHEET 13
	GOSLIN DR.	RT				70	 										SEE SHEET 13
	TURN LANE TO HOSPITAL PARKING					1	1				2					140	SEE SHEET 13
	ON SR 188 AFTER GOSLIN DR.				22		 '	 					8			320	SEE SHEET 13
	ON SR 188 BEFORE EWING ST.	,		77	44		 						 		57	320	SEE SHEET 14
	EWNG ST.	RT			17		 	 -					 		- 3/	<u> </u>	PLACE 17' FROM SR 188 C
	ON SR 188 AFTER EWING ST.	IX I		54	17		2	 -		1 1		4	 			81	SEE SHEET 14
	†	OT		34	00		12									01	
	BALDWIN AVE.	RT			29		┼	-					 				PLACE 28' FROM SR 188 C
	KEMPER AVE.	RT		<u> </u>	16		ļ	-									PLACE 26' FROM SR 188 C
	ON SR 188 BEFORE KANAWHA RD.			65			 	 -							57		SEE SHEET 14
	KANAWHA RD.	RT			35		 	-									PLACE SAME AS EXISTING
	ON SR 188 AFTER KANAWHA RD			65			2	 				1 1	ļ			81	SEE SHEET 14
	MARIETTA DR.	RT			38		 						<u> </u>				PLACE 21' FROM SR 188 (
	WHEELING RD.	RT			21		ļ	-		_			ļ				PLACE 33' FROM SR 188 C
	LYNN DR.	LT			25	ļ	 	 				<u> </u>	 				PLACE 26' FROM SR 188 C
							ļ	 -									
ART 1	TOTALS			261	305	1052	8			4	4	2	12		114	936	
					***************************************		<u> </u>										
														_			
ART 2	·					 	 					<u> </u>					
	CONCORDIA DR.	LT			26												PLACE 27' FROM SR 188 C
4x	TIKI LANE	LT			22												PLACE 25' FROM SR 188 C
	RIDGEVIEW CT.	LT			20												PLACE 29' FROM SR 188 C
	MUDHOUSE RD.	RT			30												PLACE 24' FROM SR 188 C
	RAINBOW DR.	LT			16												PLACE 30' FROM SR 188 C
	BERRY DR.	LT			25												PLACE 18' FROM SR 188 Q
	PLEASANT DR.	RT			16												PLACE 21' FROM SR 188 Q
	COONPATH RD.(CO.RD. 31)	LT			22	 	<u> </u>					 					PLACE 22' FROM SR 188 C
	COONPATH RD.	RT			18	 	1	1									PLACE 19' FROM SR 188 Q
	BEATTY RD.	RT			14		†					<u> </u>	 				PLACE 17' FROM SR 188 C
	CARROL EASTERN RD.	LT			14		 				1	 					PLACE 20' FROM SR 188 Q
)																

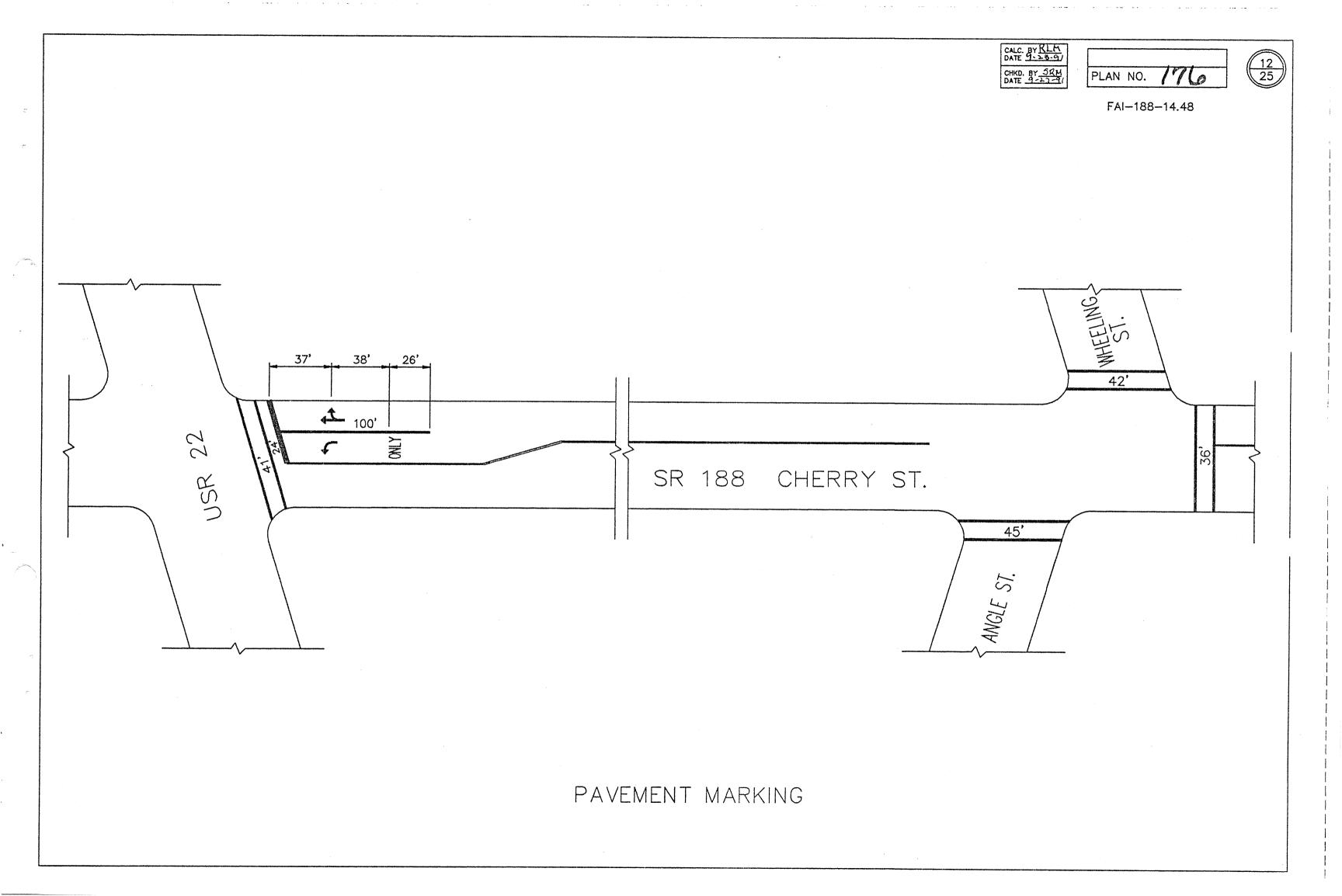
DEPARTMENT OF TRANSPORTATION
M&R707 REV. 9-1-83

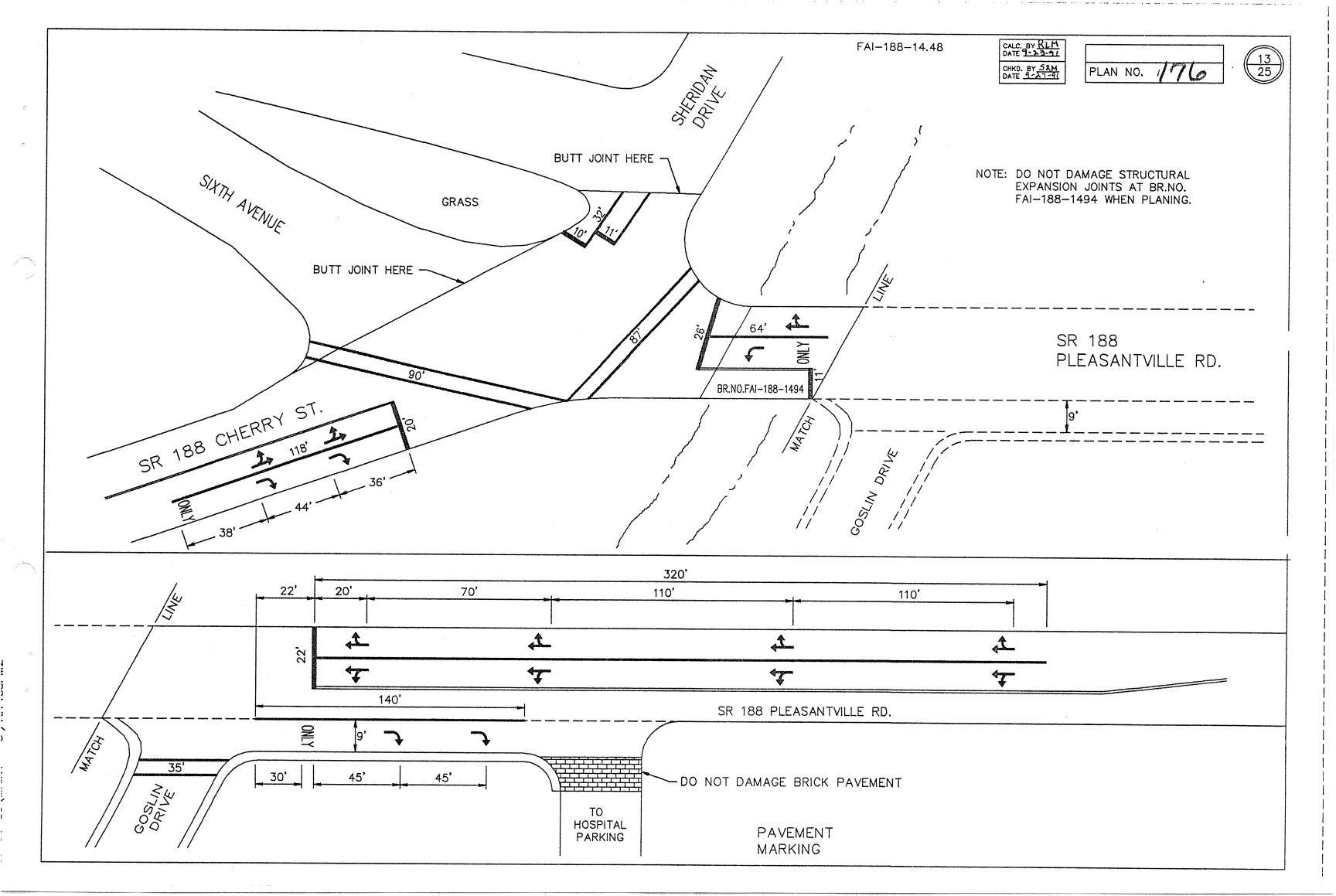
PAVEMENT MARKING SUB-SUMMARY

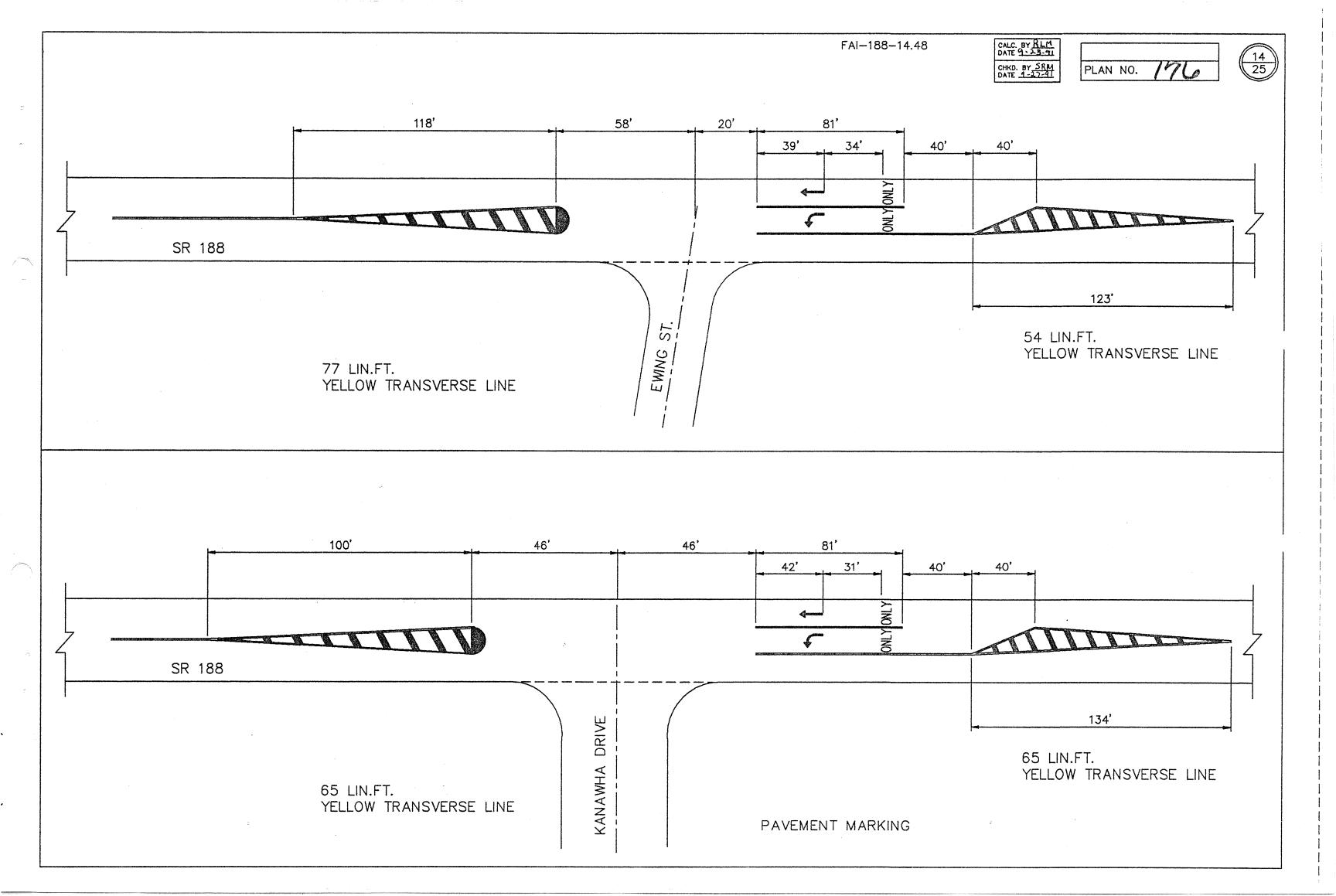
CALC. BY RLM DATE 7-2 B.91 CHKD. BY SRM DATE 9-27-91

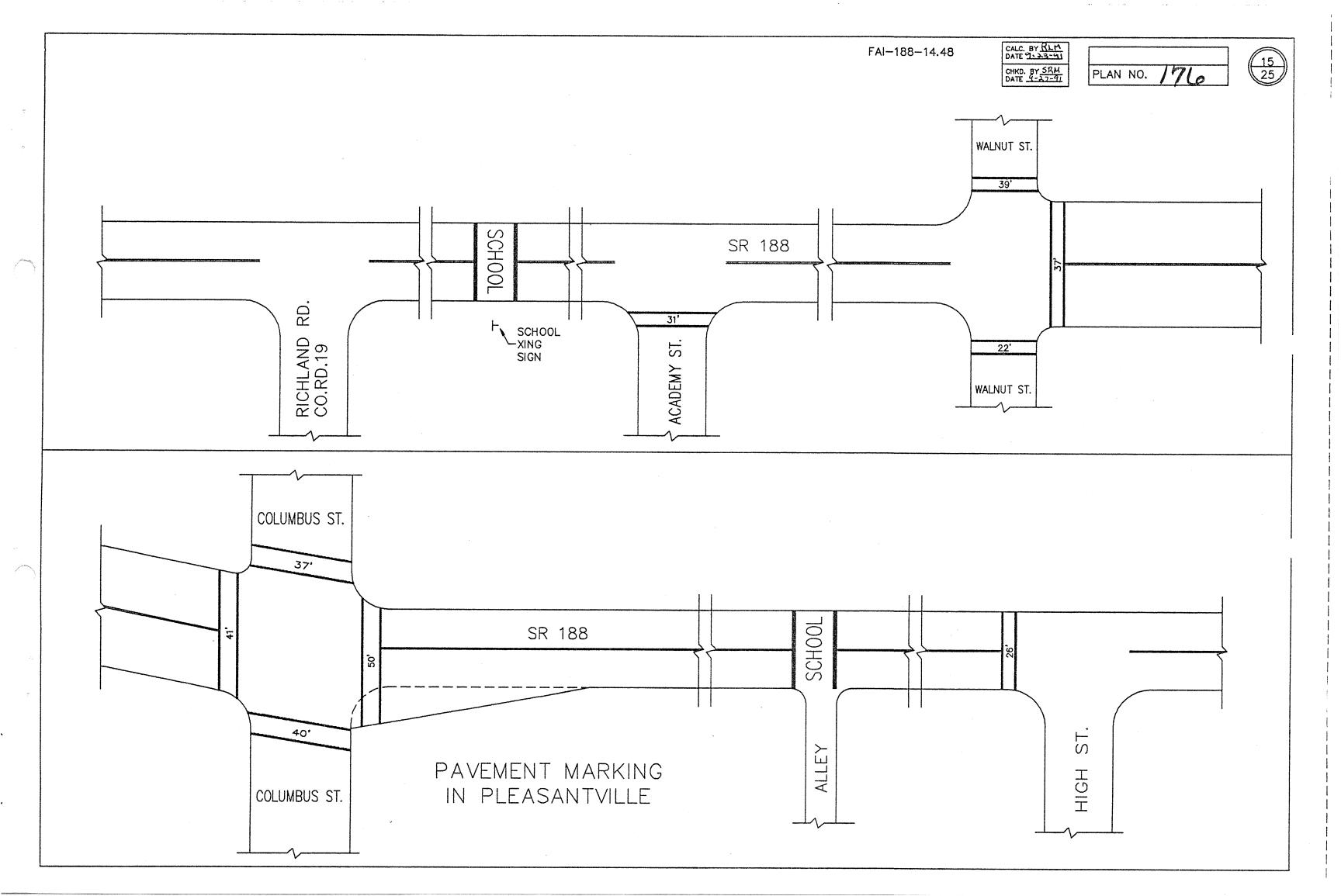
FAI-188-14.48 PLAN NO. 11 25

-3									OPLAST	TC .						n 1970 de la companya de la company	
		24" TRANSVE	RSE STO	P CRUS	2" SWALK	WOI PAV	RD ON			LANE A	RROWS		RAILROAD	D01	TED	8" CHANNEL	
CO. ROUTE	SIDE		ELLOW 24	" Wh	NES	ONLY 72" 96	SCH	100L	LEFT	RN RIGHT	THRU		SYMBOL ON PAVEMENT	WHITE		LINE	REMARKS
PART 2 CONTINUED FROM PREVIOUS	SHEET	LIN.FT. L	IN.FT. LIN.	T. LIN	LET.	EACHIEAC	HEACH	HEACH	EACH	EACH	EACH	EACH	EACH	LIN.FT.	LIN.FT.	LIN.FT.	
ON SR 188								-					+	***************************************	<u> </u>		
MUSSER RD.	LT		29				_	-					+				PLACE AS DIRECTED
LAKE RD. (CONNECTOR)	RT		1				_	-					 			<u> </u>	PLACE 18' FROM SR 188
LAKE RD.	RT		2:	······································			_	+			· ************************************		-				PLACE 15' FROM SR 188
LAKE RD. (CO.RD.62)	LT		17					+			·····		-	***************************************			PLACE 16' FROM SR 188 (
SR 256	RT		17		-			-					1				PLACE 21' FROM SR 188 (
SR 256	LT		17					++					-				PLACE 17' FROM SR 188
CATTAIL RD.	RT		13					╂									PLACE 18' FROM SR 188 (
CATTAIL RD.	LT		19										-				PLACE 17' FROM SR 188 (
NEW SALEM RD.	RT			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~									-				PLACE 19' FROM SR 188 (
CANAL RD. (CO.RD.11)	LT		23					++	***************************************								PLACE 18' FROM SR 188 Q
CANAL RD. (CO.RD.11)	<u> </u>		2					-					-	***************************************			PLACE 20' FROM SR 188
RT 2 TOTALS			43	4			_	++					+				
				•									<u> </u>	***************************************			
RT 3 SR 188 IN PLEASANTVILLE											····						
RICHLAND RD.(CO.RD.19)	RT		3-						***************************************								PLACE 51' FROM SR 188 Q
ON SR 188							1										SEE SHEET 15
ACADEMY ST	RT			6	32												SEE SHEET 15
WALNUT ST.	RT			4	4												SEE SHEET 15
WALNUT ST.	LT			7	'8							· · · · · · · · · · · · · · · · · · ·					SEE SHEET 15
ON SR 188 AFTER WALNUT ST.				7	4												SEE SHEET 15
ON SR 188 BEFORE COLUMBUS ST					32												
COLUMBUS ST.	LT				4		1						†				SEE SHEET 15
COLUMBUS ST.	RT				30								 				SEE SHEET 15
ON SR 188 AFTER COLUMBUS ST				10			 						 				SEE SHEET 15
ON SR 188					-		1	 			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		 				SEE SHEET 15
ON SR 188 BEFORE HIGH ST.				5	2			 -				· · · · · · · · · · · · · · · · · · ·	 				SEE SHEET 15
ON SR 188					/2			 -				***************************************	 				SEE SHEET 15
014 314 100								 -		···			 				PLACE AS DIRECTED
RT 3 TOTALS			31	- 6/	46		2	 -									
		 					1-2	 -			***************************************	***************************************	<u> </u>				
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CALC. BY RLM DATE 9-23-91

PLAN NO. /76



EXTRA AREA AND DEDUCTIONS

MARIETTA ROAD

INTERSECTIONS

(1) INTERMEDIATE COURSE, TYPE 1, AC-20 (2) SURFACE COURSE, TYPE 1, AC-20

		TATER SECTIONS						T	т			(Z) SURF	ACE COU	KSE, I	YPE 1, AC	J-20		***************************************		
					INT	ERSECTI	ONS							PROP	OSED ITE	MS				
Р]	4(07	Α	SPHALT	CONCRET	E		408	254			
Ä	DOLLTE	LOG POINT	CIDE	DECODIDATION	A	В	С	AREA	TACK	COVER		CU.	YD.				- 			
R	ROUTE	TO LOG POINT	SIDE	DESCRIPTION	IN	IN	IN	IN	COAT	AGGR. @ 1	THICK		T	THICK	EXISTING	PRIME	PAVEMENT PLANING, BITUMINOUS			
T		LOG POINT			FEET	FEET	FEET	SQ. YD.	@ 0.05	@ 1	INCHES	ITEM	ITEM	INCHES	SURFACE	COAT	BITUMINOUS			
									gal./s.y.	lbs./s.y.		448	448			W U.4U				
									GAL.	TON		(1)	(2)			gal./s.y. GAL.	SQ.YD.			
			-																	
1	SR 188		RT	ANGLE ST.	25	30	45	104	5				4	1.5	ASPH.		104			
			LT	WHEELING ST.	23	38	53	116	6				5	1.5	ASPH.		116			
		·	LT	ALLEY	11	17	26	26	1				1	1.5	ASPH.	······································	26			
			LT	MULBERRY ST.	20	32	48	89	4				4	1.5	ASPH.		89			
			RT	ALLEY	11	10	17	17					1	1.5	GRAVEL	7				
			LT	ALLEY	16	20	28	43	2				2	1.5	ASPH.		43			
			RT	ALLEY	10	14	21	19					1	1.5	GRAVEL	8				
			LT	KING ST.	11	30	43	45	2				2	1.5	ASPH.		45			
			LT	FIFTH ST.	12	34	45	53	3				2	1.5	ASPH.		53			
			RT	GOSLIN DR.	10	33	46	44	2	· · · · · · · · · · · · · · · · · · ·			2	1.5	ASPH.		44			
			RT	EWING ST.	25	35	82	163	8				7	1.5	ASPH.		163			-
			RT	BALDWN DR.	13	59	90	108	5				5	1.5	ASPH.		108			
			RT	KEMPER AVE.	28	27	67	146	7				6	1.5	ASPH.		146			
			RT	KANAWHA	29	37	85	197	10				8	1.5	ASPH.	-	197			
			RT	MARIETTA RD. (1)		<u> </u>		700	35		 		29	1.5	ASPH.		700		**************************************	
-			RT	WHEELING RD.	54	26	91	351	18		-		15	1.5	ASPH.		351			
-			LT	LYNN DR.	37	30	81	228	11				10	1.5	ASPH.	~~~~~~~~~~	228			
			<u> </u>	LIMA DIC	- 3/	30	01	220	11		 		10	1.5	ASPH.		228	*		
1	SR 188	TOTALS CAR	מוכט ד	O SUFET 10				2449	119				104			4 E	2417	**************************************		
 	3K 100	TOTALS CAR	KIEU I	U SHEET TO				2449	119		 		104			15	2413			
-											-					***				
-											 						-			
-			·		-						 									
	SR 188		LT	CONCORDIA DR.	24	70	67	167												<u> </u>
2	3K 100				24	38	87	167	8				7	1.5	ASPH.		167			<u> </u>
-			LT	TIKI RD.	34	26	93	225	11			6	8	1.25	ASPH.	****				
-			LT	RIDGEVIEW COURT	25	35	79	158	8		1 1	4	5	1.25	ASPH.				***************************************	<u> </u>
			RT	MUDHOUSE RD.	31	26	97	212	11			6	7	1.25	ASPH.					
	-		LT	RAINBOW DR.	39	21	76	210	11	·····		6	7	1.25	ASPH.					
-			LT	BERRY DR.	36	22	70	184	9	······································		5	6	1.25	ASPH.					
			RT	PLEASANT DR.	19	23	50	77	4		1 1	2	3	1.25	ASPH.					
			LT	COONPATH RD.(CO.RD. 31)	34	20	61	153	8		1 1	4	5	1.25	ASPH.					
			RT	COONPATH RD.(CO.RD. 31)	57	21	24	143	7		1	4	5	1.25	ASPH.					
			RT	BEATTY RD.	18	15	37	52	3		1 1	1	2	1.25	ASPH.					
			LT	CAROL EASTERN RD.	20	20	51	79	4		1 1	2	3	1.25	ASPH.					
			RT	CAROL EASTERN RD.	21	15	39	63	3		1 1	2	2	1.25	ASPH.					
				PLEASANTVILLE																
			LT	MUSSER ST.	42	15	72	203	10		1	6	7	1.25	ASPH.					
		·	RT	LAKE RD.(CONNECTOR)	26	15	42	82	4		1	2	3	1.25	ASPH.					
			RT	LAKE RD.	29	16	48	103	5		1	3	4	1.25	ASPH.					
			LT	LAKE RD.(CO.RD. 62)	80	20	113	591	30		1	16	21	1.25	ASPH.					·
2	SR 188			CONTINUED ON NEXT SHEET																

CHKD. BY 5 RM DATE 1-27-91

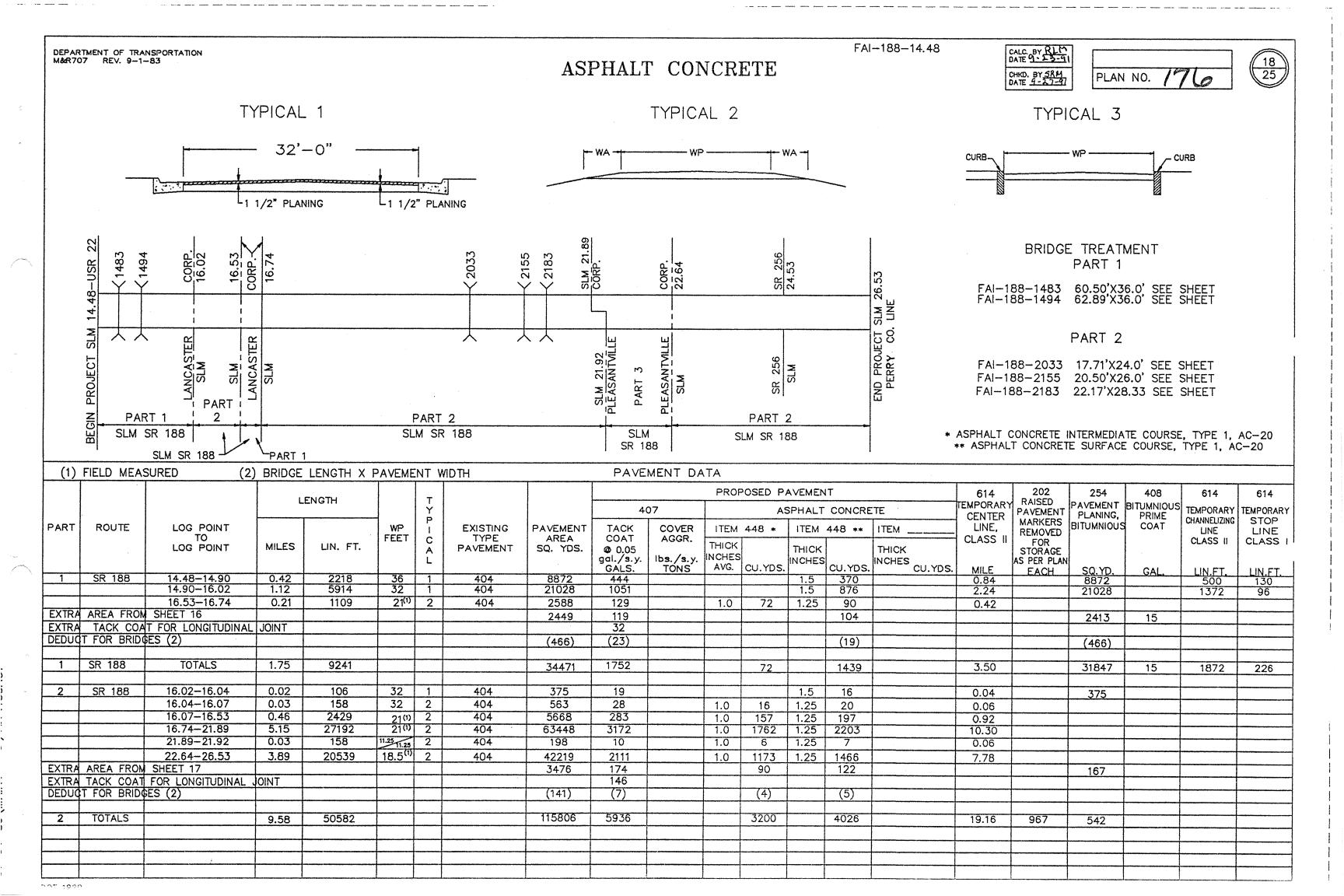
PLAN NO.



EXTRA AREA AND DEDUCTIONS

(1) INTERMEDIATE COURSE, TYPE 1
(2) SURFACE COURSE. TYPE 1

		INTERSECTIONS		- O &					·				(1) INTE (2) SUR	RMEDIA FACE (TE COURS	SE, TYPE TYPE 1	. 1			
					INT	ERSECT	IONS							PROP	OSED ITE	MS				
									4	07	1 4	ASPHALT	CONCRET			408	254		T	
P	DOUTE	LOG POINT	0.55	DECODIDE	A	В	С	AREA	TACK	COVER		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	YD.				PAVEMENT			
R	ROUTE	LOG POINT	SIDE	DESCRIPTION	IN	IN	IN	IN	COAT	1 4000	THICK			THICK	EXISTING	PRIME COAT	PAVEMENT PLANING,			
T		LOG POINT			FEET	FEET	FEET	SQ. YD.	@ 0.05	@ 1	THICK INCHES	ITEM	ITEM	INCHES	SURFACE	COAT @ 0.40	вітиміной			
									gal./s.y. GAL.	lbs./s.y.		448	448			gal./s.y. GAL.				
	SR 188	CONTINUED FROM		PREVIOUS SHEET		ļ	 		GAL.	TON	 	(1)	(2)	<u> </u>		GAL.	SQ.YD.			
2	3K 100	CONTINUED FROM	RT	SR 256	13	26		- EO	7			 		1.05	1000					
			LT	SR 256	18	26 26	55	59	3	ļ	 	2	2	1.25	ASPH.		-			
			RT	CATTAIL ROAD	32	16	59 52	85 121	6		1 1	2	3	1.25	ASPH.		-			
-			LT	CATTAIL ROAD (CO. RD. 80)	39	20	74	204	10	<u> </u>		3	7	1.25	ASPH.	***************************************				-
	<u> </u>		RT	NEW SALEM RD.	31	21	72	160	8	 		6	6	1.25	ASPH.					
-			LT	CANAL RD. CO. RD. 82	29	21	69	145	7	<u> </u>		4		1.25	ASPH.					
-				ONITAL RD. OO. RD. OZ	+ 23	41	1 09	173	 		 		5	1.25	ASPH.		 			
2	SR 188	TOTALS CARRIED TO	SHEET	18	+		 	3476	174	 		90	122	 			167			**************************************
1		7077110				 	 	34,0	1/7	 	 	30	122	-			10/			***************************************
							-				 	 	ļ	 						***************************************
3	SR 188	IN PLEASANTVILLE	RT	RICHLAND RD. (CO. RD. 19)	37	22	77	204	10		1	6	7	1.25	ASPH.		 			
			RT	ACADEMY ST.	23	22	42	82	4		<u> </u>		3	1.5	ASPH.		82			
	 		RT	ALLEY	4	15	15	7	 		 		1	1.5	ASPH.		7			
		, ,	RT	ALLEY	10	10	13	13	1				1	1.5	ASPH.		13			***************************************
			LT	ALLEY	10	9	20	16	1 1	 			1	1.5	ASPH.		16		-	
			LT	WALNUT ST.	22	30	44	90	5		 		4	1.5	ASPH.		90			****
		* :	RT	WALNUT ST.	7	23	25	19	1				1	1.5	ASPH.		19			
			LT	COLUMBUS ST.	13	28	37	47	2			,	2	1.5	ASPH.		47			
	<u> </u>		RT	COLUMBUS ST.	6	40	40	27	1				1	1.5	ASPH.		27			
			RT	EXTRA AREA @ COLUMBUS ST. (1)	167	23		213	11				9	1.5	ASPH.		213			
			RT	ALLEY	14	10	20	23	1				1	1.5	ASPH.		23			
			RT	ALLEY	8	13	22	16	1				1	1.5	ASPH.		16			
			RT	ALLEY	4	13	25	8	1				1	1.5	ASPH.		8			
			RT	HIGH ST.	20	22	41	70	4				3	1.5	ASPH.		70			
			LT	SUMMIT ST.	34	18	50	128	6				5	1.5	ASPH.		128			
3	SR 188	TOTALS CARRIED TO	SHEET	19	<u> </u>			963	50			6	41				759			
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<u></u>		•			<u> </u>															
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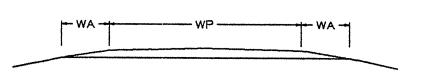
CALC. BY RLM DATE 9. 25-91 CHKO. BY 58M DATE 9-27-91

PLAN NO.

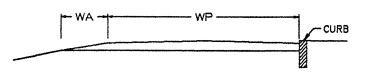
19 25

ASPHALT CONCRETE

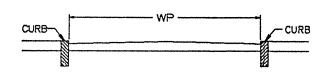








TYPICAL 4



- (1) INTERMEDIATE COURSE, TYPE 1, AC-20 (2) SURFACE COURSE, TYPE 1, AC-20

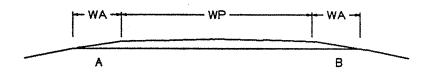
					-,	Υ	r 		, , , , ,	MENT DA											
			1	ENGTH		_					PROF	OSED P	AVEMEN	Т		614 TEMPORARY	202	254 PAVEMENT			***************************************
			L-1	LITOTI		Y			4	07		AS	SPHALT	CONCRE	TE	CENTER	PAVEMENT	PLANING,			
ART	ROUTE	LOG POINT TO			WP FEET	P	EXISTING	PAVEMENT	TACK	COVER	ITEM	448 ⁽¹⁾	ITEM	448 ⁽²⁾	ITEM	LINE, CLASS II	I KEMUVED I	BITUMINOUS 1 1/2"			
	·	LOG POINT	MILES	LIN. FT.		CAL	TYPE PAVEMENT	AREA SQ. YDS.	COAT © 0.05 gal./s.y. GALS.	AGGR. Ibs./s.y. TONS	THICK INCHES AVG.	CU.YDS.	THICK INCHES	CU.YDS.	THICK INCHES CU.YDS.		FOR STORAGE, AS PER PLAN EACH	MAX. SQ.YD.			
3	SR 188	21.89-21.92	(0.03)	(158)	11.25		404	198	10		1.0	6	1.25	7			1				
		21.92-22.04	0.12	634	22.5	2	404	1585	79				1.5	66		0.24		1585			
		22.04-22.06	0.02	106	24	3	404	283	14				1.5	. 12		0.04		283			
		22.06-22.09	0.03	158	24	4	404	421	21				1.5	18		0.06		421			***********
		22.09-22.17	0.08	422	24	3	404	1125	56				1.5	47		0.16		1125			
		22.17-22.24	0.07	370	24	2	404	987	49				1.5	41		0.14		987			
		22.24-22.30	0.06	317	35.7	3	404	1257	63 -				1.5	52		0.12		1257			
		22.30-22.64	0.34	1795	24	2	404	4787	239				1.5	199		0.68		4787			
XTR	A AREA FRO	OM SHEET 17	1					963	50			6		41				759			
XIR	A TACK CO	AT FOR LONGITUDIN	AL JOIN		-				13												
3	SR 188	TOTALS	0.72	3644				11606	594			12		483		1.44		11204			
			-																		

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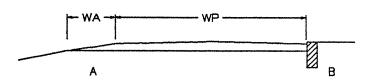
DEPARTMENT OF TRANSPORTATION
M & R 684 REV.9-1-79

PAVED SHOULDERS

TYPICAL 1



TYPICAL 2



(1) INTERMEDIATE COURSE, TYPE 1, AC-20 6. (2) SURFACE COURSE, TYPE 1, AC-20

CALC. BY RLM DATE 9-2-41 CHKD. BY <u>SRM</u>
DATE <u>9-27-91</u>

PROJECT STATE ОНЮ

20 25

* NOTES

PLAN NO.

1. <u>NIEM 203 LINEAR GRADING:</u>
This work shall consist of preparing a subgrade for the shoulder paving by excavating the existing shoulder material to the depth shown on the plan, of as directed by the Engineer to remove any unstable material and by shaping and compacting the subgrade. The unsound or broken edge of bituminous pavements shall first be trimmed to a line established by the Engineer. The existing shoulder then shall be excavated and the subgrade shaped and compacted. Compaction shall be excavated and the subgrade shaped and compacted. Compaction shall be carried out to the satisfaction of the Engineer by means of trench roller, 401.11. Areas graded in excess of depths specified or directed by the Engineer shall be backfilled to desired grade using 617 Compacted Aggregate at the Contractor's expense. Excavation material shall be diposed of as indicated in the plan.

a. Used to back up shoulders where required; the balance to be disposed

as directed by the Engineer.

b. Disposed of by the Contractor at his own responsibility outside the limits of the right of way.

c. Wasted adjacent to the pavement and within the right of way as directed by the Engineer.

2. ITEM 402 ASPHALT CONCRETE:

Prior to placing a bituminous mixture for shoulder paving, the edge of the existing pavement, for the full depth of the trench, shall be coated with

bituminous material in accordance with 401.12.

ITEM 301 BITUMINOUS ASGREGATE BASE

May be used in lieu of Item 402 Asphalt Concrete.

ITEM 617 COMPACTED AGGREGATE: A quantity of Item 617 Compacted Aggregate has been provided for areas where the shoulders were low prior to grading and/or low areas caused by

where the shoulders were low prior to grading and/or low areas caused by removal of unsuitable material.

ITEM 408 BITUMINOUS PRIME COAT:

After application of the Prime Coat, no further treatment shall be performed until so directed by the Engineer.

SHIEKD: The Contractor shall provide a shield to prevent the spraying or

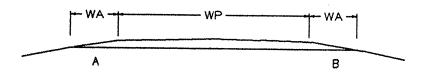
drifting of liquid bituminous material onto the edge of the pavement or edge-Mines. The attention of the Contractor is directed to 107.12 of the Specifications.

											PA	VED	SHOUL	LDER D	ATA	,						
			1			l						4	48	4	48		617	617	407	254		
		-	LE	ENGTH	_	PRO	OPOSE (F	ED WI T.)	нта			CONC	HALT CRETE	ASPI	RETE		COMPACTED AGGREGATE	WATER	TACK COAT	PAVEMENT PLANING,		
PART	ROUT	LOG POINT TO LOG POINT	MILES	LIN.FT.	YPICAL	A	В	С		HOULDER AREA SQ.YDS.	TH	VG. HICK CHES	CU.YDS.	AVG. THICK INCHES	2) CU.YDS.		TYPE A, AS PER PLAN 2' WIDE 2 1/4" AVER. THICKNESS TO BACK UP PAVED BERM CU. YDS.	M GAL	@ 0.05 gal./sq.yd. GALS.	BITUMINOUS		* NOTES
1	SR 18	16.53-16.74	0.21	1109	1	2	2			493	1	.0	14	1.25	17		31	1	25			
2	SR 18	38 16.07 – 16.53	0.46	2429	1	2	2			1080	1	.0	30	1.25	37		68		54			+
		16.74-21.89	5.15	27092	1	2	2			12085		.0	336	1.25	420		755		604			
		21.89-21.92	0.03	158	1		2			35	1	.0	1	1.25	1		2		2		***************************************	
		22.64-26.53	3.89	20539	1	2	2			9128		.0	254	1.25	317		571		456			
2	SR 18	8 TOTALS	9.53	50318	 					22328			621		775		1396	13	1116			
												·····										
3	SR 18	8 21.89-21.92	0.03	158	1	2				35	1	.0	1	1.25	1		2		2			
		21.92-22.04	0.12	634	1 1	2	2			282				1.50	12		18		14	282		
		22.04-22.06	0.02	106	2	2				24				1.50	1		2		1	24		
		22.09-22.17	0.08	422	2	2				94				1.50	4		6		5	94		
		22.17-22.24		370	1	2	2			164				1.50	7		10		8	164		
3	SR 18	8 CONTINUED	ON	NEXT	\$HEE	<u> </u>											<u> </u>					

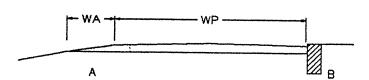
DEPARTMENT OF TRANSPORTATION
M & R 684 REV.9-1-79

PAVED SHOULDERS

TYPICAL 1



TYPICAL 2



(1) INTERMEDIATE COURSE, TYPE 1, AC-20 (2) SURFACE COURSE, TYPE 1, AC-20

DATE TANK CHKD. BY SRM

DATE 9-27-91

FHWA REGION STATE PROJECT 5 ОНЮ



* NOTES

PLAN NO.

This work shall consist of preparing a subgrade for the shoulder paving by excavating the existing shoulder material to the depth shown on the plan or excavating the existing shoulder material to the depth shown on the plan or as directed by the Engineer to remove any unstable material and by shaping and compacting the subgrade. The unsound or broken edge of bituminous pavements shall first be trimmed to a line established by the Engineer. The existing shoulder then shall be excavated and the subgrade shaped and compacted. Compaction shall be carried out to the satisfaction of the Engineer by means of trench roller, 401.11. Areas graded in excess of depths specified or directed by the Engineer shall be backfilled to desired grade using 617 Compacted Aggregate at the Contractor's expense Excavation using 617 Compacted Aggregate at the Contractor's expense. Excavation material shall be diposed of as indicated in the plan.

a. Used to back up shoulders where required; the balance to be disposed as directed by the Engineer.

b. Disposed of by the Contractor at his own responsibility outside

the limits of the right of way. Wasted adjacent to the pavement and within the right of way as

directed by the Engineer.

2. ITEM 402 ASPHALT CONCRETE: Prior to placing a bituminous mixture for shoulder paving, the edge of the existing pavement, for the full depth of the trench, shall be coated with bituminous material in accordance with 401.12.

ITEM 301 BITUMINOUS AGGREGATE BASE
May be used in lieu of Item 402 Asphalt Concrete.

ITEM 617 COMPACTED AGGREGATE:

A quantity of Item 617 Compacted Aggregate has been provided for areas where the shoulders were low prior to grading and/or low areas caused by removal of unsuitable material

removal of unsuitable material.

5. ITEM 408 BITUMINOUS PRIME COAT:
After application of the Prime Coat, no further treatment shall be performed until so directed by the Engineer.

SHIELD The Contractor shall provide a shield to prevent the spraying o drifting of liquid bituminous material onto the edge of the pavement or edge— lines. The attention of the Contractor is directed to 107.12 of the Specifications

	7										PAVED	SHOU	LDER D	ATA	***************************************		ntion of the Co	1100001 13	directed to	107.12 of the	Specification
											4	48	4-	48			617	617	407	254	
			LE	NGTH	Т	PRO	OPOSE (F	ED WI T.)	IDTH		CON	HALT CRETE	ASPH	RETE			COMPACTED AGGREGATE	WATER	TACK	PAVEMENT PLANING,	
PART	ROU'	LOG POINT TO LOG POINT	MILES	LIN.FT.	YPICAL	A	В	С	D	SHOULDER AREA SQ.YDS.	AVG. THICK INCHES	1) CU.YDS	AVG. THICK INCHES	2) Cu.yps.			TYPE A, AS PER PLAN 2'. WIDE 2 1/4" AVER. THICKNESS TO BACK UP PAVED BERM CU.YDS.	M GAL	35, 34.,4	BITUMINOUS	
3	SR 1	38 CONTINUED	FROM	PREVIOL	JS S	HEET								00.700.			CU. 1DS.	W OAL	GALS.	SQ.YD.	
	ļ	22.24-22.30	0.06	317	2	2				70			1.50	3			4		4	70	
	ļ	22.30-22.64	0.34	1795	1 1	2	2			798			1.50	33			50		40	798	
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3	SR 1	38 TOTALS	0.72	3802	-					1467		1		61			92	1	74	1432	

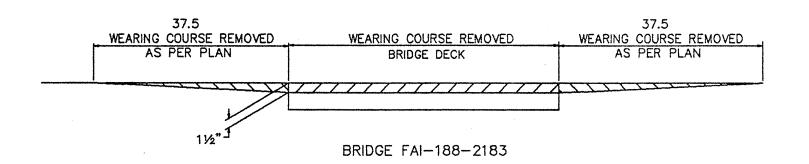
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BRIDGE DECK TREATMENT

CALC RLM
BY REGION 5

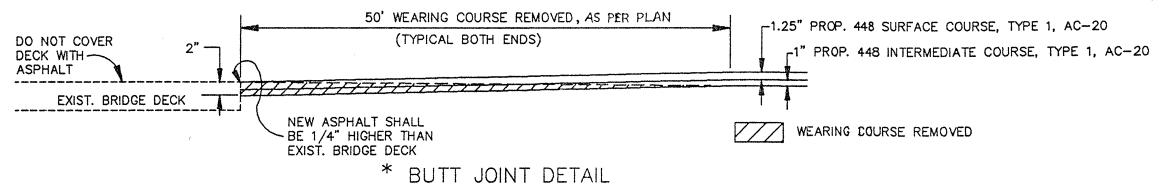
CHICAGO STAN
DATE 27

PLAN NO.



							BR	RIDGE D	ECK	DATA				(1) INCL	UDES PAVE	D BERMS		
				202	BRI	DGE DECK REP	AIR				SPECIAL		516	ASPHALT	CONCRETE	407	202	
COUNTY,	LENGTH (BRIDGE	WOTH	BRIDGE	WEARING COURSE PEMOVED				PATCH		STEEL DRIP	MEMBRANE	MEMBRANE	VERT. EXT.	THICK	448 SURFACE COURSE, TYPE 1,	TACK COAT © 0.05 GAL./SQ.YD.	WEARING COURSE REMOVED,	
BRIDGE NO.	LIMITS)		AREA	DEPTH 1.5 "	" THICK	VARIABLE THICKNESS OVERLAY	FULL-DEPTH REPAIR			STRIP	SHEET TYPE 1			ins.	AC-20		NO PER TENR	
	LIN.FT.	LIN.FT.	SQ.YDS.	SQ.YDS.	SQ.YDS.	CU.YDS.	CU.YDS.	TYPE	SQ.YD.	SQ.FT.	SQ.YDS.	SQ.YDS.	LIN.FT.		cu.yds.	GAL.	SQ.YD.	
FAI-188-1483	60.50	36.0	242.0	242.0										1.5	10	12		
FAI-188-1494	62.89		1											1.5	11	13		
TOTALS				493.56											21	25		
FAI-188-2033	DO NOT	PAVE T	HIS BRIDG	E - USE B	UTT JOINT - 🛠												278 ⁽¹⁾	
FAI-188-2155	20.50	26.0	59.22											2.25	4	3		
FAI-188-2183	22.17	28.33	69.79	69.79										1.5	3	3	209(1)	
TOTALS				69.79								Annon antiversity is a posser this help in trade and the Arthree congestions as a security of			7	6	487	
	FAI-188-1483 FAI-188-1494 TOTALS FAI-188-2033 FAI-188-2155 FAI-188-2183	COUNTY, ROUTE, BRIDGE NO. LIN.FT. FAI-188-1483 60.50 FAI-188-1494 62.89 TOTALS FAI-188-2033 DO NOT FAI-188-2155 20.50 FAI-188-2183 22.17	COUNTY, ROUTE, BRIDGE NO. LIN.FT. LIN.FT. FAI-188-1483 60.50 36.0 FAI-188-1494 62.89 36.0 TOTALS FAI-188-2033 DO NOT PAVE T FAI-188-2155 20.50 26.0 FAI-188-2183 22.17 28.33	COUNTY, ROUTE, BRIDGE NO. LIN.FT. LIN.FT. SQ.YDS. FAI-188-1483 60.50 36.0 242.0 FAI-188-1494 62.89 36.0 251.56 TOTALS FAI-188-2033 DO NOT PAVE THIS BRIDGE DECK AREA FAI-188-2155 20.50 26.0 59.22 FAI-188-2183 22.17 28.33 69.79	COUNTY, ROUTE, BRIDGE NO. LENGTH (BRIDGE LIMITS) LIN.FT. LIN.FT. SQ.YDS. SQ.YDS. FAI-188-1483 60.50 FAI-188-1494 62.89 36.0 242.0 242.0 242.0 70TALS FAI-188-2033 DO NOT PAVE THIS BRIDGE - USE B FAI-188-2155 20.50 26.0 59.22 FAI-188-2183 22.17 28.33 69.79 69.79	COUNTY, ROUTE, BRIDGE LIMITS) LENGTH (BRIDGE LIMITS) LIN.FT. LIN.FT. SQ.YDS. SQ.YDS. SQ.YDS. FAI-188-1494 FAI-188-2033 DO NOT PAVE THIS BRIDGE - USE BUTT JOINT - ★ FAI-188-2183 FAI-188-2183 COUNTY, READ COURSE REMOVED DEPTH 1.5 "	COUNTY, ROUTE, BRIDGE NO. LENGTH (BRIDGE LIMITS) LIN.FT. LIN.FT. SQ.YDS. SQ.YDS. SQ.YDS. CU.YDS. FAI-188-1483 60.50 36.0 242.0 242.0 FAI-188-1494 62.89 36.0 251.56 251.56 TOTALS 493.56 FAI-188-2033 DO NOT PAVE THIS BRIDGE — USE BUTT JOINT — ★ FAI-188-2183 22.17 28.33 69.79 69.79	COUNTY, ROUTE, BRIDGE NO. LENGTH (BRIDGE LIMITS)	COUNTY, ROUTE, BRIDGE NO. LENGTH (BRIDGE DECK REPAIR BRIDGE DECK REPAIR COURSE DECK REPAIR SS-845 LATEX MODIFIED CONCRETE PATCH SS-850 DENSE CONCRETE SS-850 DENSE CONCRETE COURSE THICKNESS OVERLAY THICKN	COUNTY, ROUTE, BRIDGE NO. LENGTH (BRIDGE LIMITS)	COUNTY, ROUTE, BRIDGE NO. LIN.FT. LIN.FT. SQ.YDS. SQ.YDS. SQ.YDS. CU.YDS. CU.YDS. CU.YDS. CU.YDS. TYPE SQ.YD. SQ.FT.	COUNTY, ROUTE, BRIDGE NO. LIN.FT. LIN.FT. LIN.FT. LIN.FT. LIN.FT. LIN.FT. SQ.YDS. SQ.YDS. SQ.YDS. CU.YDS. CU.YDS. TYPE SQ.YD. SQ.YDS.	COUNTY, ROUTE, BRIDGE NO. LENGTH (BRIDGE MINTS) LENGTH (BRIDGE NO. LIN.FT. LIN.FT. LIN.FT. LIN.FT. SQ.YDS. SQ.YDS. SQ.YDS. CU.YDS. CU.YDS. TYPE SQ.YD. SQ.YDS. SQ.YDS	COUNTY, ROUTE, BRIDGE NO. LENGTH (BRIDGE LIMITS) LIN.FT. LIN.FT. LIN.FT. SQ.YDS. S	COUNTY, ROUTE, BRIDGE NO. LENGTH (BRIDGE NO. LENGTH NO. LENGTH (BRIDGE NO. LENGTH N	COUNTY, ROUTE, BRIDGE NO. LENGTH (BRIDGE NO. LINIFT. UIN.FT. SQ.YDS. Sq.YDS.	COUNTY, ROUTE, REINGE NO. LENGTH (BRIDGE NO. LINFT. LINFT. LINFT. SQ.YDS. S	COUNTY, BRIDGE NO. LENGTH (BRIDGE LIMITS) LENGTH (BRIDGE LIMITS)

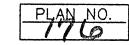
NOTE: FOR ADDITIONAL INFORMATION SEE DWG. BP-5, 10-1-87



MR679 (STA

GENERAL SUMMARY

CALC. BY______
DATE _____
CHKD. BY_____
DATE ____





ITEM	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8	ITEM	ITEM EXT. NO.	GRAND TOTAL PART 1,2,3	UNIT	DESCRIPTION
202	494	70							202	23500	564	SQ.YD.	WEARING COURSE REMOVED
202		487 967	_						202	23501 54101	487 967	SQ.YD. EACH	WEARING COURSE REMOVED, AS PER PLAN RAISED PAVEMENT MARKER REMOVED FOR STORAGE, AS PER PLAN
SPECIAL SPECIAL	1	29 14	2							20363000 20363500		HOUR HOUR	GRADER RENTAL LOADER RENTAL
254 407	31847 1802	542 7058	12 636 668	`					254 407	01000	45025 9528	SQ.YD. GALLON	PAVEMENT PLANING, BITUMINOUS TACK COAT
408	15								408	10000	15	GALLON	BITUMINOUS PRIME COAT
448	1477	4808 110	544 0						448	16000	6829	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20
448	86	3921	63						448 448	16001 14000	114 4070	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20, AS PER PLAN ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, AC-20
448	5	117	18						448	16004	140	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20 (DRIVEWAY)
614	LUMP.	LUMP	LUMP						614	11000	LUMP	LUMP	MAINTAINING TRAFFIC
614 614	5 3.50	32 19.16	6 1.44						614 614	12460 21 4 00	43 24.10	EACH MILE	WORK ZONE MARKING SIGNS TEMPORARY CENTER LINE, CLASS II

TRAFFIC:

Traffic shall be maintained at all times. The length of restricted traffic zones shall be kept to a minimum consistent with the specification requirements for protection of completed

RAILROAD CROSSINGS:

The new surface course shall be feathered or butt jointed to meet the rail grades as specified.

TACK COAT:

The tack coat operation shall be as determined at a pre-construction conference as per 407.05, and application rates shall not exceed 0.10 gal. per sq. yd. In addition to the requirements of 407.05 the tack coat shall be applied immediately ahead of the paving operation or as otherwise determined by the Project Engineer.

GENERAL NOTES

INTERMEDIATE COURSE, SPOT LEVELING AND PATCHING:
This material shall be placed in a separate

This material shall be placed in a seperate operation where and as directed by the Engineer.

ALIGNMENT AND PROFILE:

The work proposed by this project is for the resurfacing of the existing pavement. The alignment of the existing pavement will not be changed, and the profile of the proposed surface will be similar to that of the existing pavement except that it will be raised an amount equal to the thickness of the resurfacing course or courses specified in these

Spreading equipment shall be capable of having an automatic profile control device added to be used when directed by the Engineer. The minimum length of the ski for this device shall be 30'.

CONTROL OF ONE WAY TRAFFIC: In addition to the requirements of the Ohio Manual of Uniform Traffic Control Devices and Material Specifications the following requirements shall apply.

Communications between flaggers shall be by two—way radio during the paving operations. Payment for the above shall be included in Item 614, Maintaining Traffic.

COVER AGGREGATE:
Cover aggregate shall conform to 703.06.

BRIDGES

The proposed depth of asphalt resurfacing shall be altered to match the proposed depth of the treatment on the structures. The resurfacing thickness shall be adjusted as required at the approximate rate of 25 ft. per inch of difference in thickness unless otherwise directed by the Engineer.

CALC. BY ______
DATE _____
CHKD. BY _____
DATE ____

GENERAL SUMMARY

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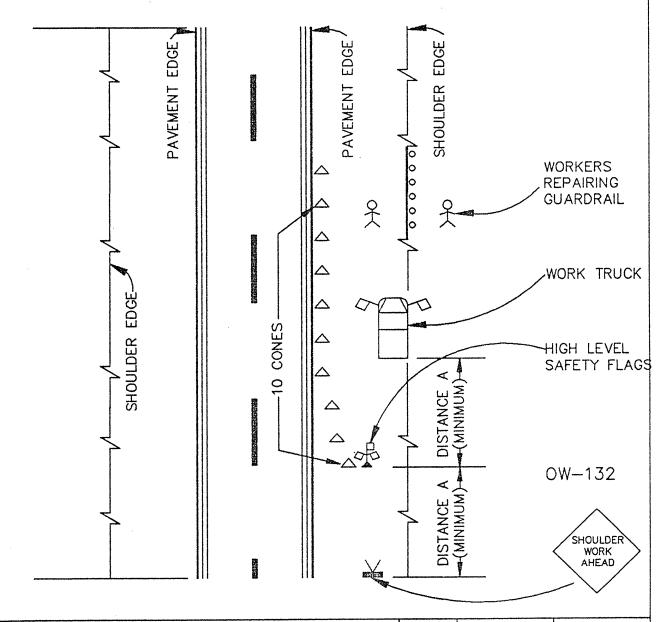
PLAN NO. 176 GRAND TOTAL PART |PART|PART|PART ITEM ITEM UNIT DESCRIPTION EXT. NO. 1872 614 23604 1872 TEMPORARY CHANNELIZING LINE, CLASS II LIN.FT. 226 614 614 26000 226 LIN.FT. TEMPORARY STOP LINE, CLASS I 617 31 1396 92 617 1519 CU.YD. COMPACTED AGGREGATE, TYPE A, AS PER PLAN 10101 617 13 617 25000 15 1 M GAL WATER LUMP LUMP 619 LUMP 619 15000 LUMP LUMP FIELD OFFICE, TYPE A 624 LUMP LUMP LUMP 624 10000 LUMP LUMP MOBILIZATION 642 0.42 18.11 1.47 642 00102 20.00 MILE EDGE LINE, TYPE 2 642 1.75 9.58 0.72 00302 642 12.05 MILE CENTER LINE, TYPE 2 644 936 00400 936 LIN.FT. 644 CHANNELIZING LINE 305 644 434 31 644 770 LIN.FT. 00500 STOP LINE 644 1052 646 1698 644 00600 LIN.FT. CROSSWALK LINE 644 261 644 00700 261 LIN.FT. TRANSVERSE LINE 644 114 644 00900 114 SQ.FT. ISLAND MARKING 644 644 01000 EACH RAILROAD SYMBOL MARKING 644 SCHOOL SYMBOL MARKING, 72" 2 01100 644 2 EACH 22 644 22 644 01300 EACH LANE ARROW 644 8 01400 WORD ON PAVEMENT, 72" 644 8 EACH ---SPECIAL 39 SPECIAL 69050000 39 EACH MAILBOX SUPPORTS 802 20 50 ----802 00100 70 EACH BARRIER REFLECTOR , TYPE A

176



TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES FOR

STATIONARY OPERATIONS ON THE SHOULDER



NOTES: SPACE THE CONES AT 50' MAXIMUM.

FOR WORK WITHIN THE MEDIAN, INSTALL THE SAME CONES AND SIGNS FOR BOTH DIRECTIONS OF TRAVEL.

TYPE OF	DISTANCE
ROADWAY	A-FT.
URBAN	200
STANDARD	500
EXPRESSWAY	750

CALC. BY ______
DATE _____
CHKD. BY _____
DATE ____