

# OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MUS-284-0.00  
MUS-340-0.00  
NOB-340-0.00  
GUE-340-0.00

CALC. BY RLM  
DATE 1-28-92  
CHKD. BY SKB  
DATE 1-28-92

SHELLY & SANDS

FHWA REGION	STATE	FEDERAL PROJECT	PLAN NO.
5	OHIO		177

1  
15

409(9)

PART	COUNTY	ROUTE	SECTIONS	PROJECT TERMINI		NET LENGTH MILES	TOWNSHIP	CITY	VILLAGE
				BEGIN	END				
1	MUS	SR 284	(0.00-3.05)	0.00	13.40	12.27			
2	MUS	SR 340	(0.00)	0.00	3.78	3.78			
3	NOB	SR 340	(0.00)	0.00	0.71	0.71			
4	GUE	SR 340	(0.00)	0.00	0.88	0.88			

The Standard 1991 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&4 and provisions for the maintenance and safety of traffic will be indicated in the proposal.

Approved  
Date 2-21-92

Cash Miel  
District Deputy Director  
of Transportation

Approved  
Date 2-27-92

B. D. Samborini  
Engineer of Bridges

Approved  
Date 3-2-92

Walter C. Swearingen  
Engineer of Maintenance

Approved  
Date 3-3-92

Alexander H. Hynds  
Deputy Director, Operations

Approved  
Date \_\_\_\_\_

Assistant Deputy Director,  
Program Development

Approved  
Date \_\_\_\_\_

Chief Engineer, Construction

Approved  
Date \_\_\_\_\_

Chief Engineer, Design

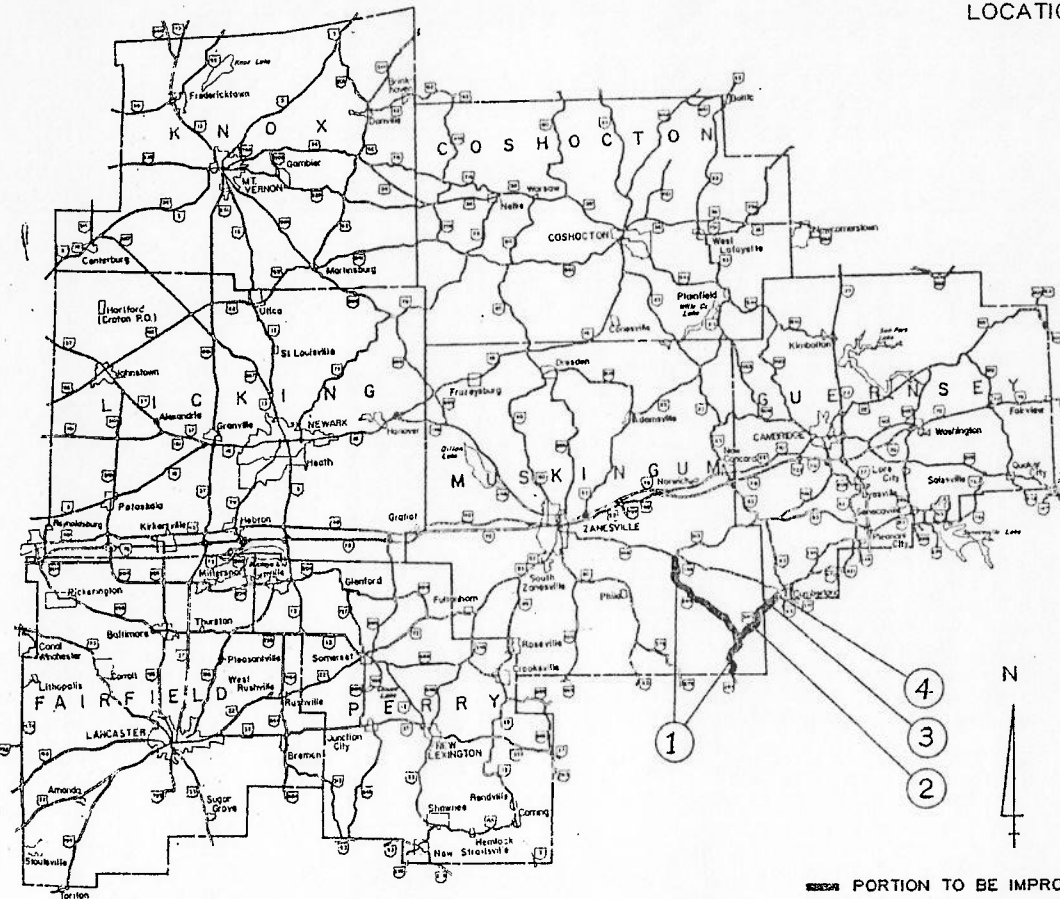
Approved  
Date \_\_\_\_\_

Assistant Director,  
Department of Transportation

Approved  
Date 3-3-92

Jerry Wray  
Director, Department of Transportation

LOCATION MAP



PORTION TO BE IMPROVED

STANDARD DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	
BP-5	10-01-87		
BP-6	10-01-87		
MT-97.10	4-29-88		
MT-97.11	10-04-89		
MT-99.10	11-14-86		
MT-99.20	4-29-88		

409

5-12-92

MUS-284-0.00  
MUS-340-0.00  
NOB-340-0.00  
GUE-340-0.00

CALC. BY: [initials]  
DATE: 1-2-84  
CITYD. BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

PLAN NO.

2  
15

## 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 AND SHAPED 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 THE ACTUAL 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

### RESIDENCE AND COMMERCIAL 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 OR PAVED BERM. FIELD DRIVES AND 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 WORK ON DRIVES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1 (DRIVEWAYS).

PAVING OF THE MAINLINE SHALL BE COMPLETED BEFORE THE WORK DESCRIBED ABOVE SHALL BEGIN ON DRIVES. THE QUANTITIES SHOWN IN THE TABLE BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSE DESCRIBED ABOVE.

PART 1	51
PART 2	-
PART 3	-
PART 4	5

CU.YD.

### EXTRA ASPHALT FOR PRE-LEVELING

A QUANTITY OF 448 INTERMEDIATE COURSE 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	920
PART 2	284
PART 3	53
PART 4	66

CU.YD.

### 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.

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

CU.YD. (SEE TABLE BELOW)

PART 1	15
PART 2	2
PART 3	-
PART 4	5

CU.YD.

### ITEM 617 COMPACTED AGGREGATE, AS PER PLAN

ALL AGGREGATE SHALL BE 100% CRUSHED LIMESTONE.

3/10 RB

MUS-284-0.00  
 MUS-340-0.00  
 NOB-340-0.00  
 GUE-340-0.00

CALC BY: RLM  
 DATE: 1-22-92  
 CHD. BY: RLM  
 DATE: 1-22-92

PLAN NO.

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 AWP A P 8 OR AWP A 5. 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.

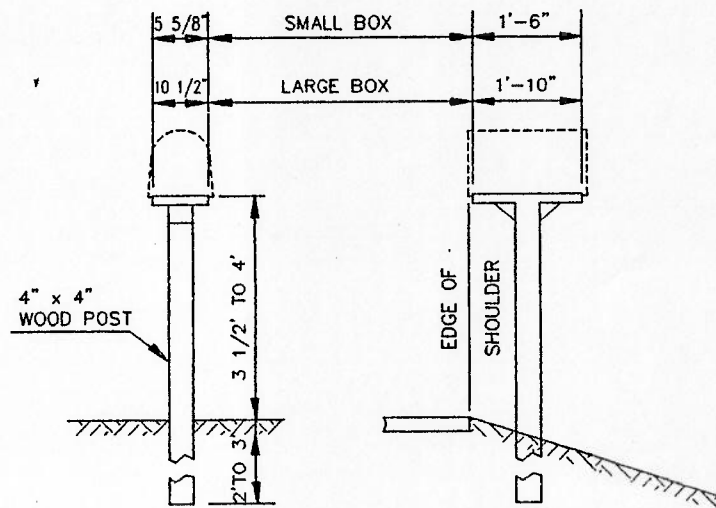
ITEM SPECIAL - MAILBOX SUPPORTS

PART 1	4	CU.YD.
PART 2	1	
PART 3	-	
PART 4	-	

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	4
A	28	8	4	4
B	14	4	2	2
C	14	4	2	2



TYPICAL MAILBOX LOCATION AND MOUNTING HEIGHT







# PAVEMENT MARKING TYPICAL DETAILS

FED. RD. DIV.	STATE	PROJECT
5	OHIO	

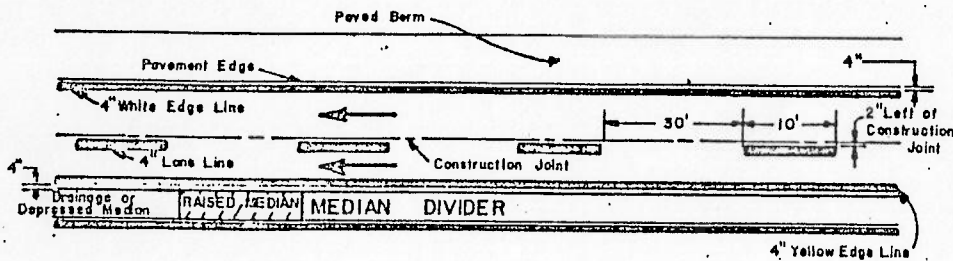
7  
15

CALC. BY R.L.H.  
DATE 1-28-92  
CHKD. BY SKB  
DATE 1-28-92

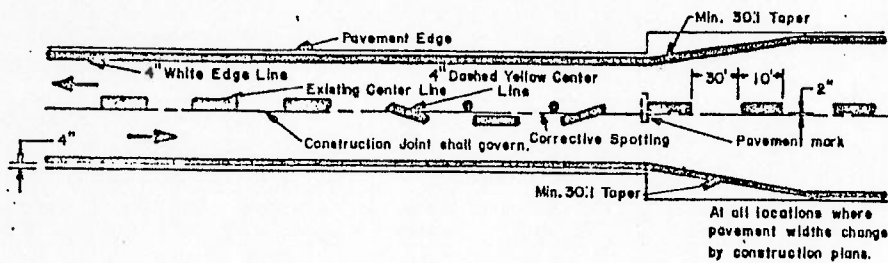
MUS-284-0.00  
MUS-340-0.00  
NOB-340-0.00  
GUE-340-0.00

PLAN NO. \_\_\_\_\_

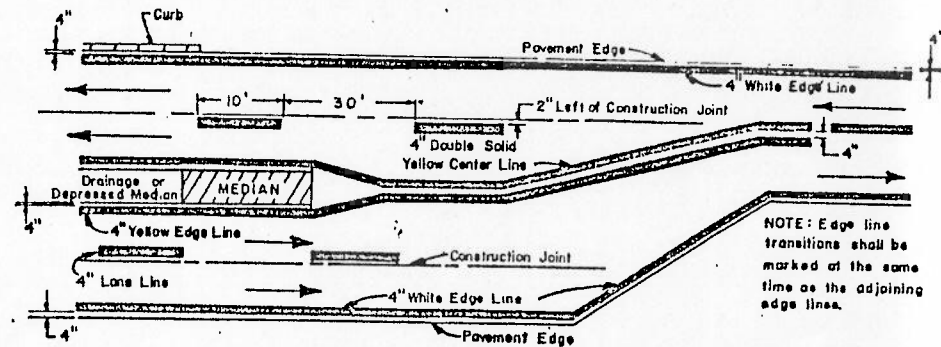
## FREEWAY & EXPRESSWAY MAINLINE MARKINGS



## TWO LANE MARKINGS



## MULTILANE DIVIDED & UNDIVIDED HIGHWAY MARKINGS



### NOTES:

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.
3. 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.

OHIO DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING TYPICAL DETAILS	DATE 11/80
JULY - 1981	

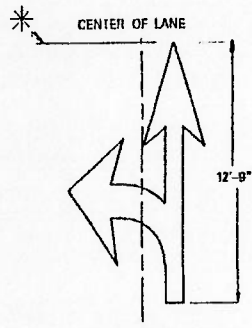
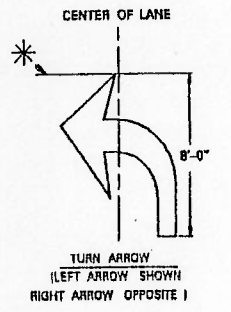
# WORD AND SYMBOL MARKING DETAILS

MUS-284-0.00  
 MUS-340-0.00  
 NOB-340-0.00  
 GUE-340-0.00

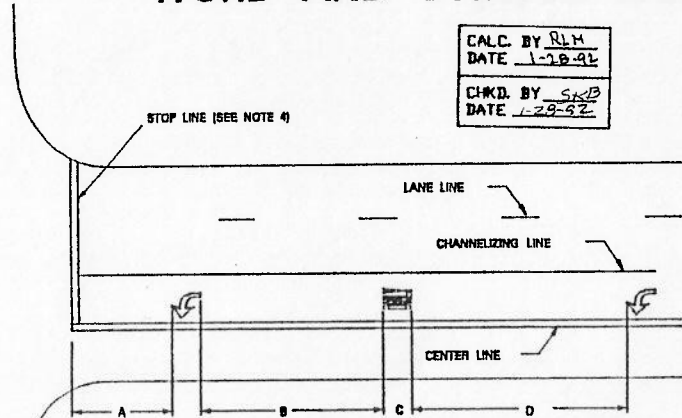
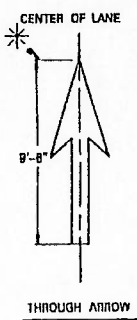
FED. RD. DIVISION	STATE	PROJECT
6	OHIO	

PLAN NO. \_\_\_\_\_

CALC. BY RLM  
 DATE 1-28-92  
 CHKD. BY SKP  
 DATE 1-29-92

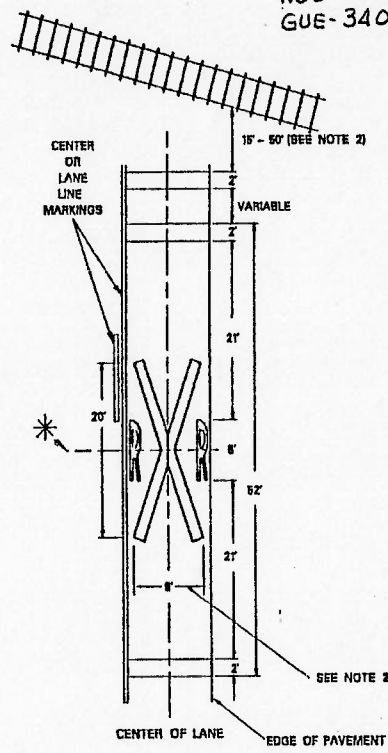


COMBINED ARROW  
 (THREE HEAD DIRECTIONAL ARROWS  
 CAN BE ACHIEVED BY THE COMBINATION  
 OF TURN ARROWS.)



NOTE:  
 STOP LINE LOCATED MIN. 40' FROM  
 AT LEAST ONE SIGNAL HEAD WHICH APPLIES  
 TO THAT APPROACH

TYPE	DIMENSIONS (FEET)			
	A	B	C	D
RURAL	30 MIN.	32-80	8	32-80
URBAN	10 MIN.	32-80	5	24-80



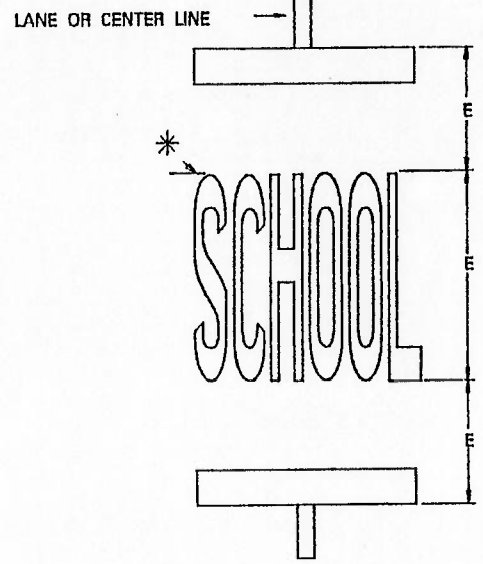
- NOTES:
- ON MULTI-LANE APPROACHES, THE TRANSVERSE LINES USED WITH THE RAILROAD SYMBOLS SHALL EXTEND ACROSS ALL APPROACH LANES AND SYMBOLS SHALL BE PLACED IN EACH APPROACH LANE.
  - THE RAILROAD SYMBOL SHALL BE LOCATED SO THAT THE W-84, "RAILROAD ADVANCE WARNING SIGN", IS WITHIN THE TWO TRANSVERSE BOUNDARY 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.
  - 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 OF LANE LINES SHALL NOT PASS THROUGH THE "SCHOOL" MARKING.
  - 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 INTERSECTIONS 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 CROSSWALK.

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

FOR TRAFFIC PAINT AND POLYESTER APPLICATION, TEMPLATE GAPS SHALL BE FILLED WITH MARKING MATERIAL IN ACCORDANCE WITH 641.03. FOR EXTRUDED THERMOPLASTIC MATERIAL THESE GAPS MAY REMAIN UNFILLED IN ACCORDANCE WITH 644.03.

USE STANDARD DIMENSIONS CONFORMING TO REQUIREMENTS OF OMUTCD SECTION 3B-40 THROUGH 3B-43 INCLUSIVE. (THAT IS THE 1977 METRIC EDITION STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING WITH ERRATA.)

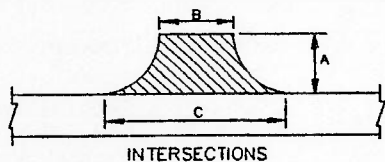


TYPE	INCHES
RURAL	96
URBAN	72

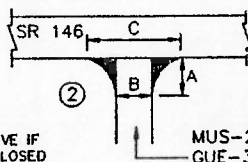


\* INDICATES STATION REFERENCE POINT



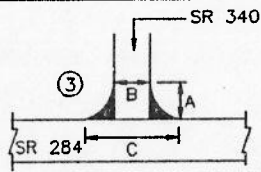


(1) DO NOT PAVE IF ROAD IS CLOSED



MUS-284 AND GUE-340

### EXTRA AREAS



CALC. BY B.L.K.  
DATE 1-18-53  
CHKD. BY S.H.O.  
DATE 1-22-53

PLAN NO.

9  
15

MUS-284-0.00  
MUS-340-0.00  
NOB-340-0.00  
GUE-340-0.00

PART	ROUTE	LOG POINT TO LOG POINT	SIDE	DESCRIPTION	INTERSECTIONS			AREA IN SQ. YD.	PROPOSED ITEMS							
					A IN FEET	B IN FEET	C IN FEET		407		ASPHALT CONCRETE		EXISTING SURFACE	408		
									TACK COAT @ 0.10 gal./s.y.	COVER AGGR. @ 1 lbs./s.y. TON	THICK INCHES	CU. YD. 448 INTERMEDIATE COURSE, TYPE 2, AC-20			THICK INCHES	CU. YD. 448 SURFACE COURSE, TYPE 1, AC-20
1	SR 284		LT	YOUNG HICKORY RD.	30	18	63	135			2	8	4	1	GRAVEL	54
			RT	OAK GROVE RD.	30	16	50	110			2	6	3	1	GRAVEL	44
			LT	DRAKE-MARTIN RD.	35	17	51	132			2	7	4	1	GRAVEL	53
			RT	RURALDALE RD. (1)	55	24	117	431			2	24	12	1	GRAVEL	172
			LT	RURALDALE RD.	35	20	90	214			2	12	6	1	GRAVEL	86
			RT	INTERNATIONAL DR.	45	24	90	285			2	16	8	1	GRAVEL	114
			LT	PAISLEY RD.	60	24	150	580			2	32	16	1	GRAVEL	232
			RT	ZION RIDGE RD.	50	24	96	333			2	19	9	1	GRAVEL	133
			LT	SUGAR GROVE RD.	50	18	95	314			2	17	9	1	GRAVEL	126
			RT	HIGH FREELAND RD.	50	19	105	344			2	19	10	1	GRAVEL	138
			LT	FENTON RD.	85	20	175	921			2	51	26	1	GRAVEL	368
			RT	LEEDOM RD.	35	20	80	194			2	11	5	1	GRAVEL	78
			LT	WON RIDGE RD. (CO.RD.79)	40	18	90	240			2	13	7	1	GRAVEL	96
			LT	HARMON HOLLOW RD. (TWP.211)	50	16	100	322			2	18	9	1	GRAVEL	129
			CL	AT SR 146 (2)	33	24	58	62	6		2	3	2	1	ASPH.	
1	SR 284	TOTALS		CARRIED TO SHEET 10				4617	6			256	130			1823
2	SR 340	MUS.CO.	CL	AT SR 284 (3)	65	21	123	368	37		2	20	10	1	ASPH.	
			LT	SISK RD.	32	15	70	151			2	8	4	1	GRAVEL	60
			LT	INTERNATIONAL DR.	35	25	73	191			2	11	5	1	GRAVEL	76
2	SR 340	TOTALS		CARRIED TO SHEET 11				710	37			39	19			136
4	SR 340	GUE.CO.	LT	ZEBEDEE RD.	30	15	57	120			2	7	3	1	GRAVEL	48
			CL	AT SR 146 (2)	60	19	122	343	34		2	19	10	1	ASPH.	
4	SR 340	TOTALS		CARRIED TO SHEET 11				463	34			26	13			48

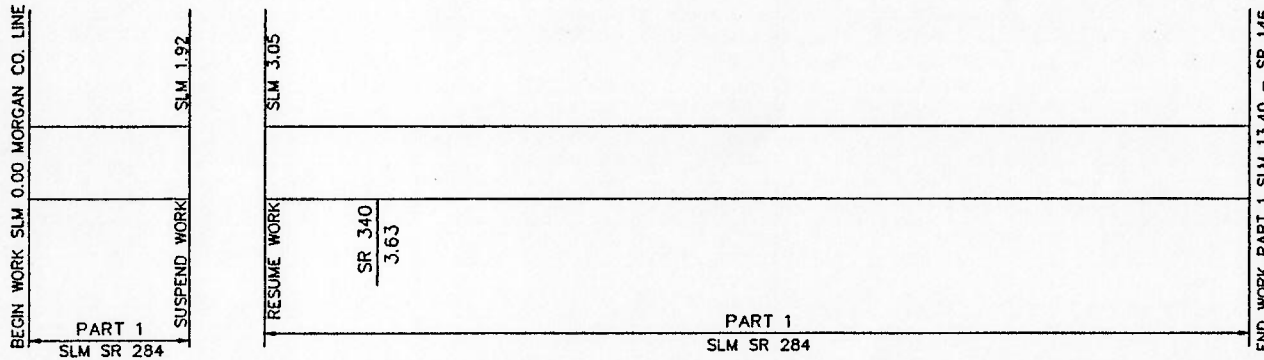
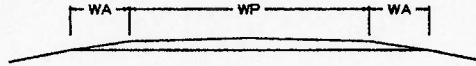
## ASPHALT CONCRETE TYPICAL 1

MUS-284-0.00  
MUS-340-0.00  
NOB-340-0.00  
GUE-340-0.00

CALC. BY <u>PLM</u>
DATE <u>1-28-93</u>
CHKD. BY <u>SJG</u>
DATE <u>1-28-93</u>

PLAN NO.

10  
15



(1) BRIDGE LENGTH X PAVEMENT WIDTH

PAVEMENT DATA

PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YDS.	PROPOSED PAVEMENT				614 TEMPORARY CENTER LINE, CLASS II MILE	408 BITUMINOUS PRIME COAT GAL.	
			MILES	LIN. FT.					407		ASPHALT CONCRETE				
									TACK COAT 0.10 gal./s.y. GALS.	COVER AGGR. lbs./s.y. TONS	ITEM 448 THICK INCHES AVG.	ITEM 448 THICK INCHES SURFACE COURSE, TYPE 1, AC-20 CU. YDS.			
1	SR 284	0.00-1.92	1.92	10138	18	1	409	20276	2028	2	1126	1	563	3.84	
		3.05-13.40	10.35	54648	18	1	409	109296	10930	2	6072	1	3036	20.70	
		EXTRA AREAS FROM SHEET 9 FOR LONGITUDINAL JOINT						4617	6		256		130		1823
									150						
1	SR 284	TOTALS	12.27	64786				134189	13114		7454		3729	24.54	1823

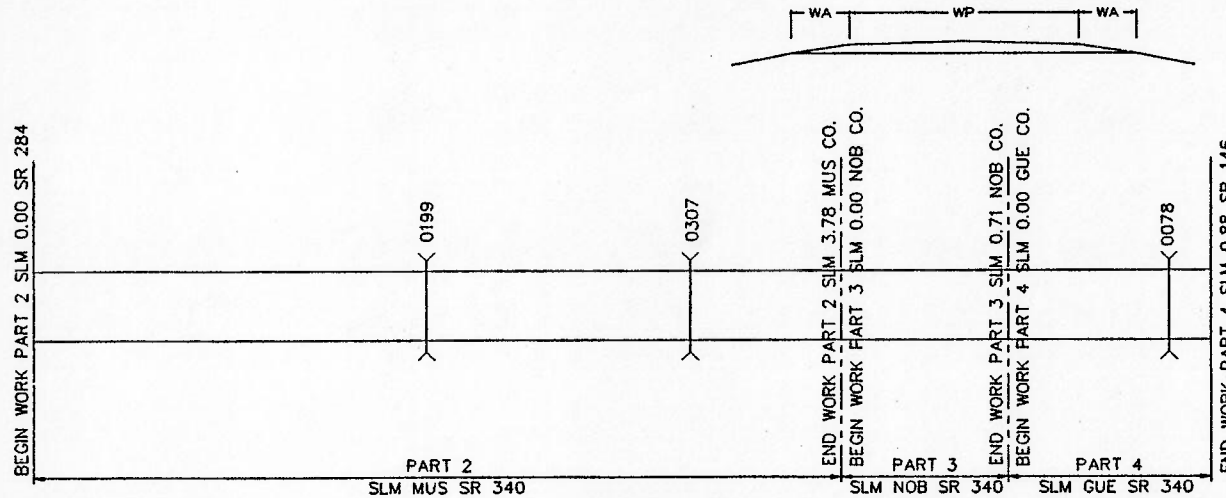
# ASPHALT CONCRETE TYPICAL 1

MUS-284-0.00  
MUS-340-0.00  
NOB-340-0.00  
GUE-340-0.00

CALC. BY RLM  
DATE 1-18-84  
DRD. BY JTB  
DATE 1-22-84

PLAN NO.

11  
15



**BRIDGE TREATMENT**  
PART 2  
MUS-340-0199 36.0' X 23.08' SEE SHEET 13  
MUS-340-0307 37.5' X 25.5' SEE SHEET 13  
PART 4  
GUE-340-0078 39.25' X 24.0' SEE SHEET 13

• AVERAGE      PAVEMENT DATA

PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YDS.	PROPOSED PAVEMENT				614 TEMPORARY CENTER LINE, CLASS II	408 BITUMINOUS PRIME COAT	
			MILES	LIN. FT.					407		ASPHALT CONCRETE				
									TACK COAT @ 0.10 gal./s.y. GALS.	COVER AGGR. lbs./s.y. TONS	ITEM 448 THICK INCHES AVG.	INTERMEDIATE COURSE TYPE 2 AC-20 CU. YDS.			ITEM 448 THICK INCHES
2	SR 340	0.00 - 1.86	1.86	9821	20+	1	404/409	21824	2182	2	1212	1	606	3.72	
		1.86 - 3.78	1.92	10138	18	1	409	20276	2028	2	1126	1	563	3.84	
		EXTRA AREAS FROM SHEET 9						710	37		39		19		136
		EXTRA TACK COAT FOR LONGITUDINAL JOIN							46						
		DEDUCT FOR BRIDGES (1)						(147)	(15)		(8)		(4)		
		TOTALS	3.78	19959				42663	4278		2369		1184	7.56	136
3	SR 340	0.00-0.71	0.71	3749	18	1	409	7498	750	2	417	1	208	1.42	
		EXTRA AREAS FROM SHEET 9						-	-		-		-		
		EXTRA TACK COAT FOR LONGITUDINAL JOIN							9						
		TOTALS	0.71	3749				7498	759		417		208	1.42	
4	SR 340	0.00-0.88	0.88	4646	18	1	409	9292	929	2	516	1	258	1.76	
		EXTRA AREAS FROM SHEET 9						463	34		26		13		48
		EXTRA TACK COAT FOR LONGITUDINAL JOIN							11						
		DEDUCT FOR BRIDGES (1)						(79)	(8)		(4)		(2)		
		TOTALS	0.88	4646				9676	966		538		269	1.76	48

SR 340

01-04-80 (MAINT - C) M284AC2

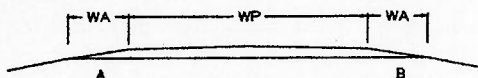
# SHOULDER TREATMENT

MUS-284-0.00  
 MUS-340-0.00  
 NOB-340-0.00  
 GUE-340-0.00

CALC. BY: RLM  
 DATE: 1-18-91  
 CRD. BY: JKB  
 DATE: 1-27-91

PLAN NO.

TYPICAL 1



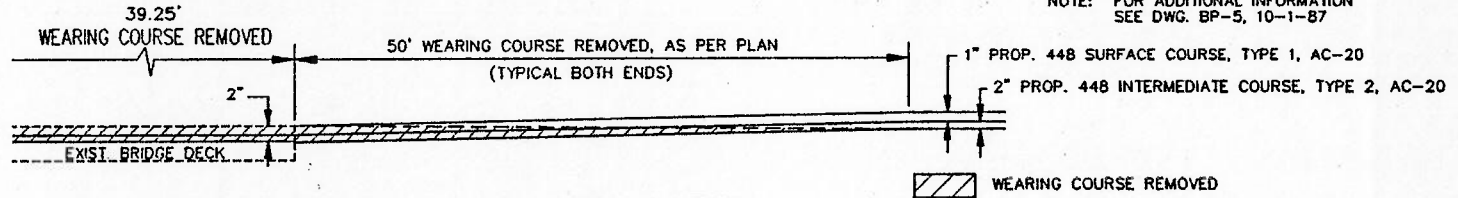
## SHOULDER DATA

PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		TYPICAL	EXISTING TYPE - WIDTH (FT.)								AREA SQ. YDS.	617			
						MILES	LIN. FT.	A		B		C			D		SHOULDER PREPARATION	COMPACTED AGGREGATE, TYPE A AS PER PLAN 5" AVG. THICK
			TYPE	WIDTH				TYPE	WIDTH	TYPE	WIDTH	TYPE	WIDTH		SQ. YD.	CU. YD.		
	MUS.CO.																	
1	SR 284	0.00 - 1.92	1.92	10138	1	617	2	617	2			4506	4506	375	3.4			
		3.05 - 13.40	10.35	54648	1	617	2	617	2			24288	24288	2024	18.4			
1	SR 284	TOTALS	12.27	64786								28794	28794	2399	21.8			
	MUS.CO.																	
2	SR 340	0.00 - 3.78	3.78	19958	1	617	2	617	2			8870	8870	739	6.7			
	NOB.CO.																	
3	SR 340	0.00 - 0.71	0.71	3749	1	617	2	617	2			1666	1666	139	1.3			
	GUE.CO.																	
4	SR 340	0.00 - 0.88	0.88	4646	1	617	2	617	2			2065	2065	172	1.6			

# BRIDGE DECK TREATMENT

MUS-284-0.00  
MUS-340-0.00  
NOB-340-0.00  
GUE-340-0.00

CALC. BY DATE BY DATE	OHIO FORM 5 REVISION	13 15
PLAN NO.		



GUE-340-0078

## BRIDGE DECK DATA

PART	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS) LIN.FT.	WIDTH LIN.FT.	BRIDGE DECK AREA SQ.YDS.	BRIDGE DECK DATA													
					WEARING COURSE REMOVED DEPTH 2"	BRIDGE DECK REPAIR			PATCHING		STEEL DRIP STRIP SQ.FT.	SPECIAL DECK WATERPROOFING		WEARING COURSE REMOVED, AS PER PLAN SQ.YDS.	202 THICK INS. 1"	ASPHALT CONCRETE 448 SURFACE COURSE, TYPE 1, AC-20 CU.YDS.	407 TACK COAT @ 0.05 GAL./SQ.YD. GAL.	202 WEARING COURSE REMOVED, AS PER PLAN SQ. YD.
						<input type="checkbox"/> SS-845 LATEX MODIFIED CONCRETE	<input type="checkbox"/> SS-850 DENSE CONCRETE	" THICK OVERLAY SQ.YDS.	VARIABLE THICKNESS OVERLAY CU.YDS.	FULL-DEPTH REPAIR CU.YDS.		TYPE	SQ.YD.					
2	MUS-340-0199	36.0	23.08	92.32										2	5	5		
	MUS-340-0307	37.5	25.5	106.25										2	6	5		
2	TOTALS														11	10		
4	GUE-340-0078	39.25	24.0	104.67	104.67									2	6	10	200	

# GENERAL SUMMARY

MUS-284-0.00  
MUS-340-0.00  
NOB-340-0.00  
GUE-340-0.00

CALC. BY RLM  
DATE 1-18-97  
CHKD. BY GSB  
DATE 1-28-97

PLAN NO.

14  
15

ITEM	PART 1	PART 2	PART 3	PART 4					ITEM	ITEM EXT. NO.	GRAND TOTAL PARTS 1 - 4	UNIT	DESCRIPTION
202	-	-	-	105					202	23500	105	SQ.YD.	WEARING COURSE REMOVED
202	-	-	-	200					202	23501	200	SQ.YD.	WEARING COURSE REMOVED, AS PER PLAN
SPECIAL	40	11	2	3					SPECIAL	20363000	56	HOUR	GRADER RENTAL
SPECIAL	20	6	1	1					SPECIAL	20363500	28	HOUR	LOADER RENTAL
407	13114	4288	759	976					407	10000	19137	GALLON	TACK COAT
408	1823	136	-	48					408	10000	2007	GALLON	BITUMINOUS PRIME COAT
448	8374	2653	470	604					448	15000	12101	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, AC-20
448	3744	1405	208	280					448	16000	5637	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20
448	51	-	-	5					448	16000	56	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20,(DRIVEWAYS)
614	LUMP	LUMP	LUMP	LUMP					614	11000	LUMP	LUMP	MAINTAINING TRAFFIC
614	28	8	4	4					614	12460	44	EACH	WORK ZONE MARKING SIGN
614	24.54	7.56	1.42	1.76					614	21400	35.28	MILE	TEMPORARY CENTER LINE, CLASS II
617	2399	739	139	172					617	10101	3449	CU.YD.	COMPACTED AGGREGATE, TYPE A, AS PER PLAN
617	28794	8870	1666	2065					617	20000	41395	SQ.YD.	SHOULDER PREPARATION
617	22	7	1	2					617	25000	32	MGAL.	WATER

## GENERAL NOTES

### 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 courses.

### 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.

### INTERMEDIATE COURSE, SPOT LEVELING AND PATCHING:

This material shall be placed in a separate 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 plans.

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.

