STATE OF OHIO, DEPARTMENT OF HIGHWAYS

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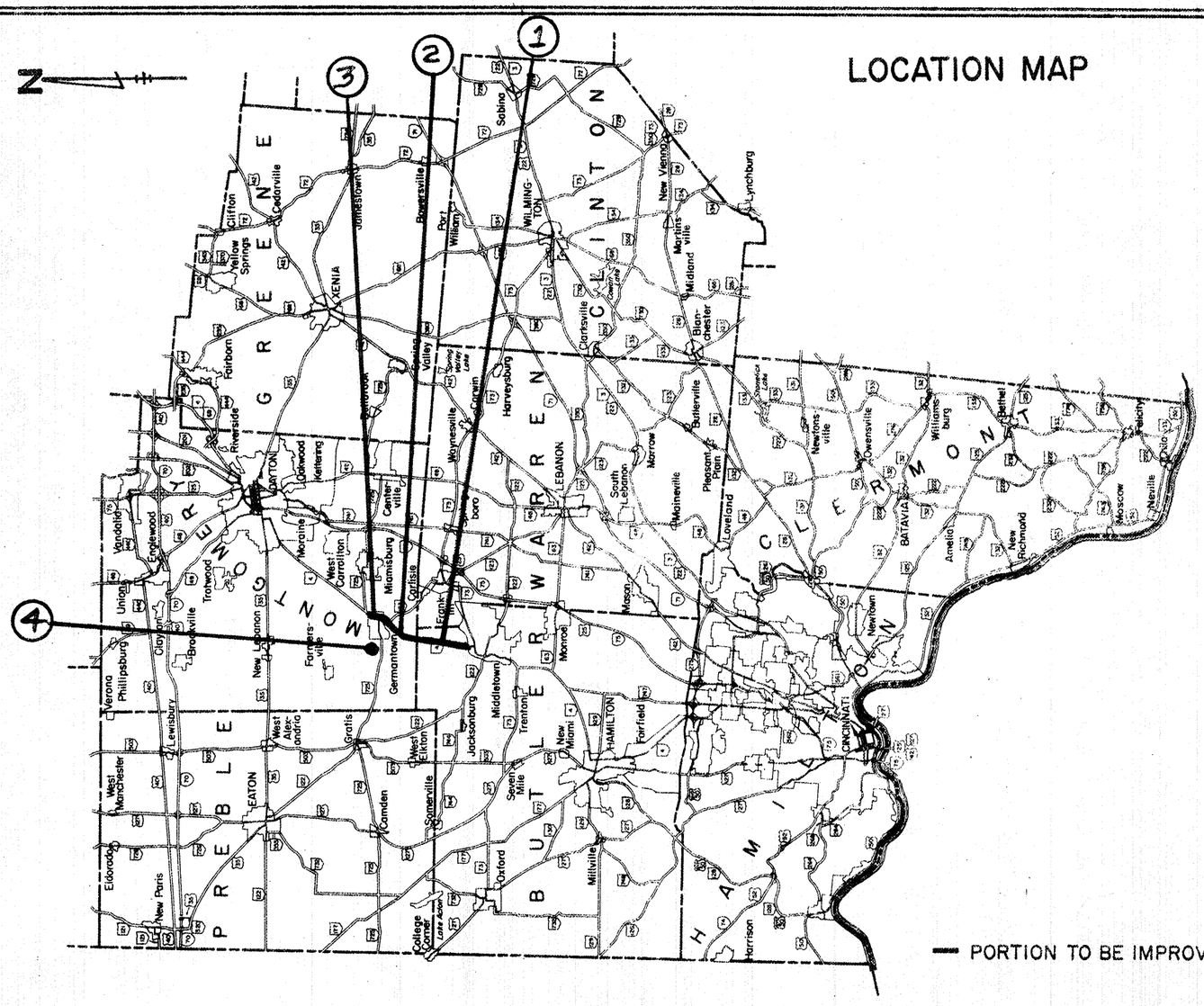
PROS. 328 (1969) PLAN NO. 171

PART	COUNTY	ROUTE	SECTIONS	PROJECT TERMINII BEGIN	PROJECT TERMINII END	NET LENGTH MILES	TOWNSHIP	CITY	VILLAGE
1	BUT	SR4	24.15-25.27	24.15	27.63	3.48	Madison		
2	MOT	SR4	0.00	0.00	2.48	2.48	German Miami		
3	MOT	SR4	2.48	2.48	3.43B	0.95			Germantown
4	MOT	DAYTON-MONTGOMERY COUNTY PARK DISTRICT							
			GERMANTOWN DAM RESERVE				German		

LOCATION MAP



— PORTION TO BE IMPROVED

The Standard 1969 Specifications of the State of Ohio, Department of Highways, 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 # _____ and that detours will be provided by State forces. The closing to traffic of the highways will not be required on Parts # 1 thru 4 and provisions for the maintenance and safety of traffic will be as indicated in the proposal.

Approved Date 3-18-69 — J.L. Cooke — Division Deputy Director

Approved Date 3-27-69 — C.H. Altwater — Engineer of Bridges

Approved Date _____ — _____ — Engineer of Location & Design

Approved Date _____ — _____ — Deputy Director of Design & Construction

Approved Date 3-28-69 — [illegible] — Engineer of Maintenance

Approved Date 5-7-69 — [illegible] — Deputy Director of Operations

Approved Date 5-8-69 — Thomas M Major — Deputy Director of Planning & Programming

Approved Date 5-9-69 — [illegible] — First Assistant Director

Approved Date 5-9-69 — P. Bradshaw — Director of Highways

Approved Date 3/25/69 — J. Richard Lamwell — Director, Dayton Montgomery County Park District

STANDARD DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	
BP-5	6-1-65		

PROS. 328

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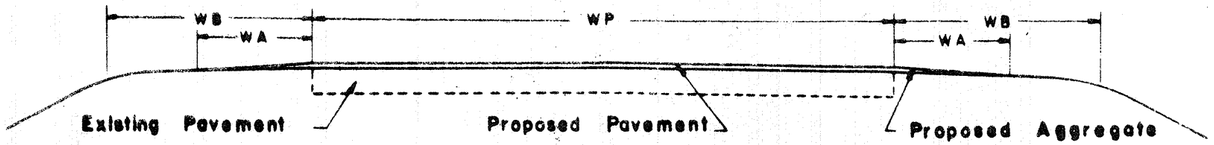
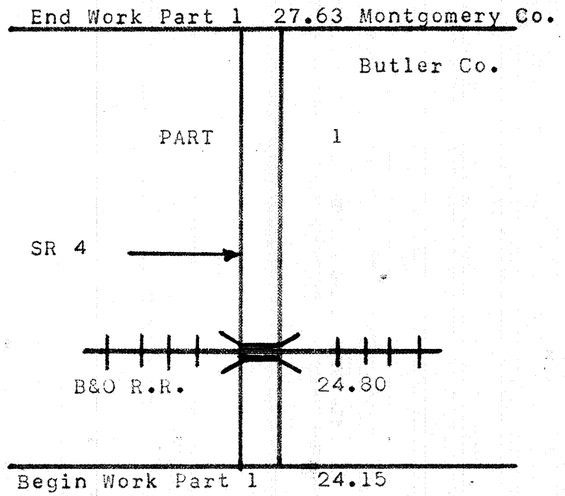
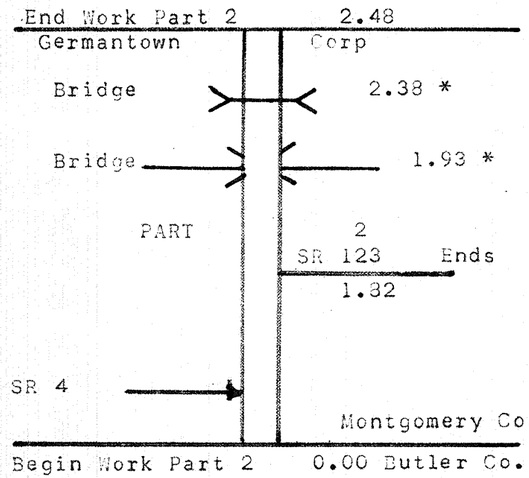
TYPICAL SECTION
ASPHALT CONCRETE







* OMIT RESURFACING

PAVEMENT DATA

PART		SECTION TO SECTION	LENGTH MILES	LENGTH LIN. FT.	WP FEET	EXISTING PAVEMENT TYPE & THICKNESS	PAVEMENT AREA SQ. YDS.	PROPOSED PAVEMENT 407 TACK COAT @ 0.05 Per SQ. YD. GALLONS	ASPHALT CONCRETE THICK INCHES	CU. YD. ITEM 404	ITEM	MIN. THICK INCHES	CU. YD. ITEM 403		SHOULDERS PREPARATION WB FEET	WA FEET	ITEM SQ. YDS.	AGGREGATE AVE. THICK INCHES	ITEM 617 CU. YDS.
1	SR 4	24.15-24.59	0.44	2323	48	404 & Macadam	12,389	619	1	344		0	172		SEE	SHEET	4		
		24.59-24.64	0.05	264	AV50	404 & Plain Concrete	1467	73	1	41		0	20			"			
		24.64-24.91	0.27	1426	45	"	7130	357	1	198		0	99			"			
		24.91-24.95	0.04	211	AV48	"	1125	56	1	31		0	16			"			
		24.95-25.31	0.36	1901	48	404 & Macadam	10,139	507	1	282		0	141			"			
		25.31-25.45	0.14	739	AV29	"	2381	119	1	66		0	33			"			
		25.45-27.63	2.18	11,510	24	"	30,693	1535	1	853		0	426						
		Extra Area & Deductions					4219	211		117			59						
		Total-Part 1	3.48				69,543	3477		1932			966						
2	SR 4	0.00-2.48	2.48	13,094	24	404 & Macadam	34,917	1746	1	970		0	485			"			
		Extra Area & Deductions					0	0		0			0						
		Total-Part 2	2.48	13,094			34,917	1746		970			485						

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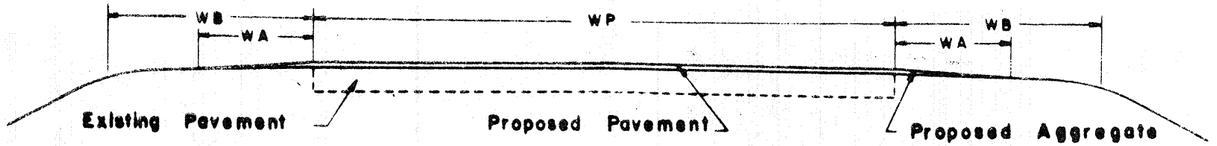
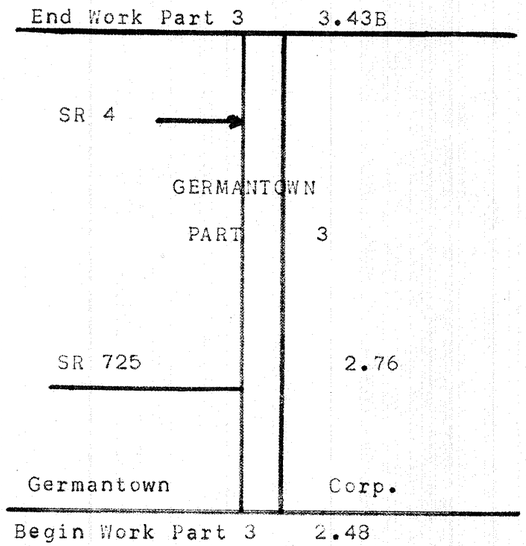
TYPICAL SECTION
ASPHALT CONCRETE





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PAVEMENT DATA

PART		SECTION TO SECTION	LENGTH MILES	LENGTH LIN. FT.	WP FEET	EXISTING PAVEMENT TYPE & THICKNESS	PAVEMENT AREA SQ. YDS.	PROPOSED PAVEMENT 407 TACK COAT Per SQ YD GALLONS	ASPHALT CONCRETE THICK INCHES	CU. YD. ITEM 404	CU. YD. ITEM	MIN THICK INCHES	CU. YD. ITEM 403	SHOULDERS WB FEET	PREPARATION WA FEET	PREPARATION ITEM SQ YDS	AGGREGATE AVE THICK INCHES	AGGREGATE ITEM 617 CU YDS
3	SR 4	2.48-3.43B	0.95	5016	24	404 & Macadam	13,376	669	1	372		0	186					
		Extra Area & Deductions					3370	169		94			47	See Sheet 4				
		Total-Part 3	0.95	5016			16,746	838		466			233					

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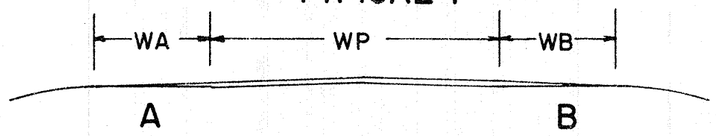
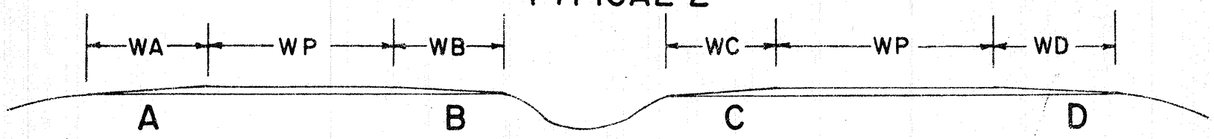
SHOULDER TREATMENT

TYPICAL 1



TYPICAL 2



*NOTES

1. SEAL COAT: Not less than five days nor more than twenty days shall elapse after completion of the mix before the Seal Coat is applied.

2. PENETRATION CHOKE: Choke to be applied in two applications; approximately 0.004 cu. yd./sq. yd. shall be applied immediately on the mix after initial rolling. Not earlier than two days nor later than five days following the final rolling the penetration coat and final choke application shall be performed in accordance with the provisions of 409.07 and 409.08.

3. MIX BITUMINOUS MATERIAL: Include 0.20 gal. sq. yd. to be applied as a penetration.

4. PRIME COAT: A minimum of 36 hours shall elapse after completion of Prime Coat before any subsequent treatment.

5. MIX: Mix to be completed on shoulders within _____ days following completion of the adjacent pavement.

6. SHIELD: The contractor shall provide a shield to prevent the spraying or drifting of liquid bituminous material onto the edge of the pavement or edgelines. The attention of the contractor is directed to 107.12 of the Specifications.

7. APPLICATION RATE: The rate of application for mix bituminous material shall be.....gal. per sq. yd. for slag or.....gal. per sq. yd. for gravel or stone.

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SHOULDER DATA

PART	ROUTE	LOG PT. TO LOG PT.	LENGTH MILES	LENGTH LIN. FT.	TYPICAL	EXISTING TYPE - WIDTH (ft.) A TYPE	A WIDTH	B TYPE	B WIDTH	C TYPE	C WIDTH	D TYPE	D WIDTH	AREA SQ. YDS.	407 TACK Bit. Mat. @ GAL/S.Y. GAL.	405 MIX Bit. Mat. @ GAL/S.Y. GAL.	405 MIX Mix Aggr. @ C.Y./S.Y. CU. YD.	405 CHOKE Aggr. @ C.Y./S.Y. CU. YD.	408 PRIME Bit. Mat. RI-2 or 3 @ 0.50 GAL S.Y. GAL.	409 SEAL Bit. Mat. MC-800 or 3000 @ 0.35 GAL/S.Y. GAL.	409 SEAL Aggr. No. 8 @0.0077 C.Y./S.Y. CU. YD.	617 Shoulder Preparation SQ. YD.	617 Compacted Aggregate CU. YD.	617 THICKNESS INCHES	NOTES
1	SR 4	24.15-24.59	0.44	2323	2	617	3					617	3	1549					775	542	12		86	2	4,6
		24.86-25.20	0.34	1795	2	617	3					617	3	1197					599	419	9		66	2	4,6
		25.20-25.30	0.10	528	2	617	3	617	2	617	2	617	3	587					294	205	5		33	2	4,6
		25.30-27.63	2.33	12,302	1	617	3	617	3					8201					4101	2870	63		456	2	4,6
		Total-Part 1	3.21	16,948										11,584					5769	4036	89		641		
2	SR 4	0.00-2.48	2.48	13,094	1	617	3	617	3					8729					4365	3055	67		485	2	4,6
3	SR 4	2.48-3.43B	0.95	5016	1	617	3	617	3					3344					1672	1170	26		186	2	4,6

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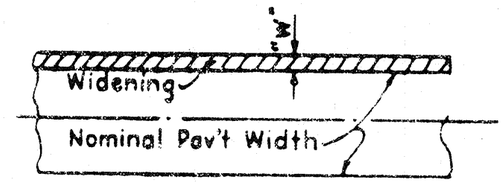
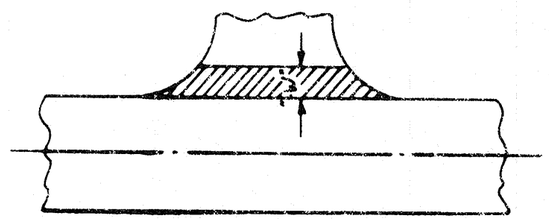
PLAN NO. 171

EXTRA AREAS & DEDUCTIONS

PART		SEC. TO SEC. LOCATION	SIDE	DESCRIPTION	LENGTH "L" MILES	LENGTH "L" LIN. FT.	WIDTH "W" FEET	AREA SQ.YDS.	PROPOSED ITEMS 407 TACK COAT @0.05 GALS.	ASPHALT CONCRETE ITEM 404 CU.YD.	ASPHALT CONCRETE ITEM 403 CU.YD.	617 SHOULDER PREPARATION SQ YDS.	617 AGGREGATE CU. YDS.
1	SR 4	24.26	Lt	Moorman Rd		90	12	120					
		24.27	Rt	Intersection		75	12	100					
		24.36	Rt	"		60	12	80					
		24.46	Lt	"		90	12	120					
		24.53	Rt	"		75	12	100					
		24.56	Lt	"		60	12	80					
		24.58	Lt			60	12	80					
		24.60	Lt&Rt	Franklin Rd (Each Side)		100	12	267					
		24.87	Lt	Intersection		75	12	100					
		25.08-25.21	Lt	Acceleration Lane	0.13	686	14	1067					
		25.14-25.21	Rt	Left turn lane (Median)	0.07	370	14	576					
		25.20	Lt	Crossover		75	15	125					
		25.58-25.65	Lt	Acceleration lane	0.07	370	12	493					
		25.64	Lt&Rt	Thomas Rd (Each Side)		75	12	200					
		27.19-27.26	Lt	Acceleration lane	0.07	370	12	493					
		27.25	Lt&Rt	Kiester Rd (Each Side)		60	12	160					
				Stabilized Drives-Feather		175	3	58					
		Total-Part 1						4219	211	117	59		
2	SR 4	1.44	Lt&Rt	Eby Rd (Each Side)		100	12	267					
		1.82	Rt	SR 123 & Acceleration lane		600	12	800					
		1.93	Lt&Rt	Bridge-omit		-200	-24	-533					
		2.38	"	"		-260	-24	-693					
						476	3	159					
		Total-Part 2						0	0	0	0		
3	SR 4	2.76	Lt&Rt	SR 725 & Acceleration lane		1130	12	1507					
		3.18-3.26	Lt	Turn lane & Acceleration lane	0.08	422	12	563					
		3.30-3.39	Lt	Old SR 4 Approaches	0.09	475	24	1267					
				Stabilized Drives-Feather		100	3	33					
		Total-Part 3						3370	169	94	47		



WIDENING (CURVES ETC.)



INTERSECTIONS

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PLAN NO. 171

PART	LOCATION	LENGTH FEET	WIDTH FEET	AREA SQ.YDS.	Furnish, haul & Spread & Using [redacted] 304 Aggregate INCHES	CU.YDS.	407 @0.05Gal/S.Y. GALLONS	202 [redacted] EXISTING Pavmt. REMOVED AND DISPOSED OF SQ. YDS. [redacted]	404 1" Thick. CU. YDS.	408 RT-2 or RT-3 @ 0.50gal/S.Y. GALLONS	409 Bit. MC-800 or 3000 @0.35Gal/S.Y. GALLONS	409 Cover No. 8 @0.0077CY/SY CU.YDS.	408 RT-2 or RT-3 @ 0.10 Gal/S.Y. GALLONS	SHOULDERS PREPARATION FEET	SQ.YDS.	AGGREGATE INCHES	CU.YDS.
4 Germantown Dam	Rd 1	7286	18	14,572			729		405								
	Fac 1	Var	Var	600	6	100				300	210	5					
	Fac 8	Var	Var	360	4	40				180	126	3					
	Fac 11	90	50	500	4	56				250	175	4					
	Fac 12	317	12	423	2	24				212	148	3					
	Fac 13	475	12	633	2	35				317	222	5					
	Fac 14	581	12	775							271	6	78				
	Fac 15	210	120	2800							980	22	280				
(TOTAL OF 15)	Eq.Fac Feathers	30	15	750					21								
	Fac 15	Var	Var	50	8	11		50		25							
	Total-Part 4					266	729	50	426	1284	2132	48	358				

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PLAN NO. 171

FAC. 8

FAC. 11

RD. 1

FAC. 12

FAC. 13

FAC. 14

FAC. 1

TWIN CREEK

DAM

FAC. 15

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LEGEND:

1" 404 .....

Special using 304 aggregate, 408 & 409 ....

408 & 409 .....

DAYTON-MONTGOMERY COUNTY PARK DISTRICT

GERMANTOWN DAM

SCALE: 1" = 400'

M & R 693

PLAN NO. 171 (3/8)

GENERAL SUMMARY

ITEM	TOTAL PART 1	TOTAL PART 2	TOTAL PART 3	TOTAL PARTS 2 & 3	TOTAL PART 4	GRAND TOTAL	UNIT	DESCRIPTION
407	3477	1746	838	2584	729	6790	Gals.	Tack Coat, MS-2, RS-1, SS-1, RC-70, or RC-250
403	966	485	233	718		1684	Cu. Yds.	Asphalt Concrete (70-85)
404	1932	970	466	1436	426	3794	Cu. Yds.	Asphalt Concrete (70-85)
202	270					270	Each	Precast traffic dividers removed & disposed of
202					50	50	Sq. Yds.	Existing pavement removed and disposed of
SPECIAL ~~304~~					266	266	Cu. Yds.	Furnish, haul and uniformly spread, using 304 aggregate
408	5769	4365	1672	6037		11,806	Gals.	Bituminous prime coat, RT-2 or RT-3, for shoulders
409	4036	3055	1170	4225		8261	Gals.	Seal Coat, bituminous material, MC-800 or 3000 for Shoulders
409	89	67	26	93		182	Cu. Yds.	Seal Coat, cover aggregate, no. 8 for shoulders
408					~~1642~~	~~1642~~	Gals.	Bituminous prime coat, RT-2 or RT-3
409					2132	2132	Gals.	Seal Coat, bituminous material, MC-800 or 3000
409					48	48	Cu.Yds.	Seal Coat, cover aggregate, No. 8
604			1	1		1	Each	Manhole adjusted to grade
617							Sq. Yds.	Shoulder Preparation
617	641	485	186	671		1312	Cu. Yds.	Compacted Aggregate
614	LUMP	LUMP	LUMP	LUMP	LUMP	Lump	Lump	Maintaining Traffic

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GENERAL NOTES

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.

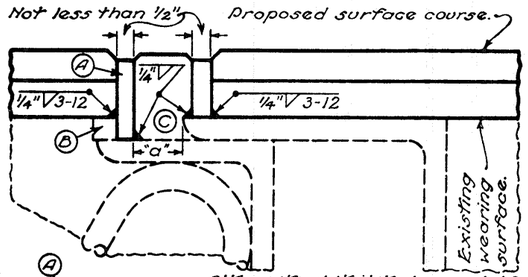
TACK COAT:
The tack coat operation shall be as determined at a pre-construction conference as per 407.05, and application rates shall not exceed 0.10 gal. per sq. yd.

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 to meet the rail grades ~~xxxxxxxxxx~~

INTERMEDIATE COURSE:
The intermediate course shall be placed in a separate operation where and as directed by the engineer.

RESURFACING



ALTERNATE DETAIL

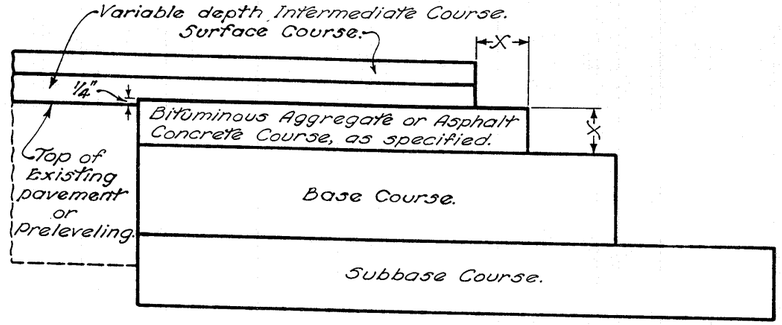
Alternate detail to be used if dimension "a" is less than anticipated expansion.

Bar (B) will be made 2" wide to provide better anchorage of bar (A).

(C) 702.07 filler or similar bituminous material.

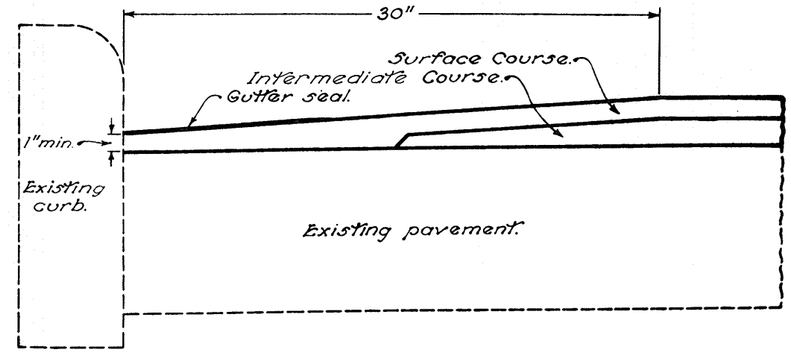
Steel bars shall be structural grade steel.

RAISING EXPANSION JOINTS AT BRIDGE



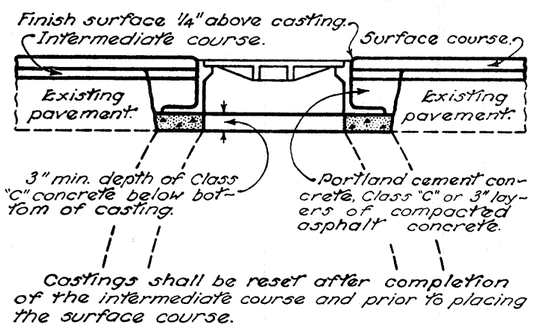
The Bituminous Aggregate or Asphalt Concrete Base Course in the upper part of the base widening shall finish approximately 1/4" above the edge of the existing pavement where no preleveling is used. Where a preleveling (using intermediate course material) is specified, it shall be placed prior to excavation of the widening trench and the upper course of the base widening shall finish approximately 1/4" above the preleveling.

COURSE DETAIL FOR WIDENING



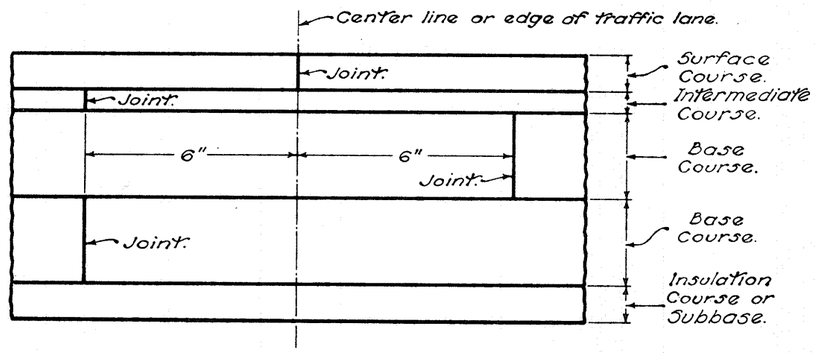
Special care shall be exercised during construction to obtain maximum compaction of bituminous concrete in all gutters.

GUTTER FINISH

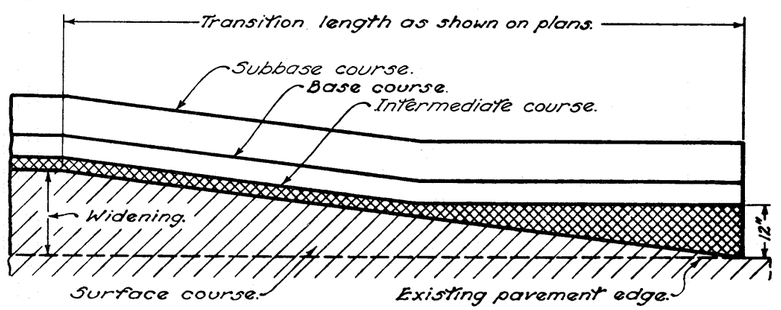


Castings shall be reset after completion of the intermediate course and prior to placing the surface course.

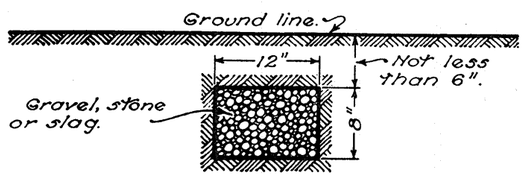
CASTINGS ADJUSTED TO GRADE



LAPPING LONGITUDINAL JOINTS

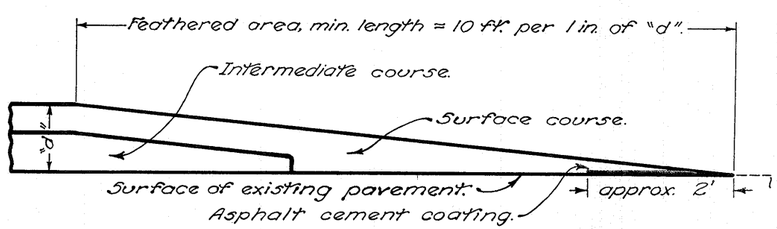


MERGING EDGE OF PAVEMENT WIDENING WITH EDGE OF EXISTING PAVEMENT

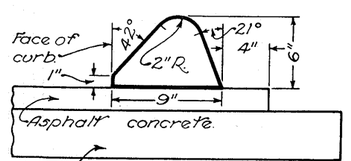


Aggregate drains to be placed where and as directed by the Engineer.

AGGREGATE DRAINS



PLACING FEATHERED AREAS



TYPE 1 ASPHALT CONCRETE CURB

BUREAU OF LOCATION AND DESIGN
OHIO DEPARTMENT OF HIGHWAYS

DATE 6-1-'65

RESURFACING

STANDARD CONSTRUCTION DRAWING **BP-5**

APPROVED R.N. Bratton ENGR. L. & D.

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