

**UTILITIES**

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, OHIO811, THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEADQUARTERS (MICHELLE CHANEY AT 330-786-2267) AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ALL AREAS.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THE PLANS, BUT CAN BE OBTAINED FROM THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**PAVEMENT MARKING LANE WIDTHS**

THE NORMAL LANE WIDTH FOR THE PAVEMENT MARKINGS ON THIS PROJECT SHALL BE AS FOLLOWS (AT LEAST 3 DAYS PRIOR TO PERFORMING THE WORK CONTACT THE TRAFFIC OFFICE AT 330-786-3147 TO CONFIRM THE WIDTHS):

ROUTE	S.L.M. TO S.L.M.	LANE WIDTH
SR 7	0.00 TO 3.15	12'
SR 7	3.15 TO 3.45	10'
SR 7	3.45 TO 3.58	12'

**PROFILE AND ALIGNMENT**

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

**PAVEMENT MARKING DETAILS**

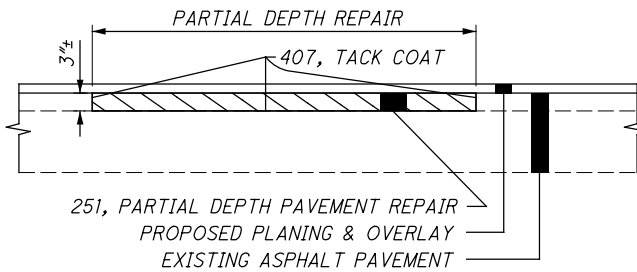
THE PAVEMENT MARKING DETAIL SHEETS WILL BE SUPPLIED TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING. FOR ANY LOCATIONS THAT PAVEMENT MARKING DETAILS HAVE NOT BEEN MADE AVAILABLE TO THE CONTRACTOR, IT WILL BE THE CONTRACTORS RESPONSIBILITY TO PUT BACK NEW PAVEMENT MARKINGS IN THE ORIGINAL LOCATIONS.

**CURB RAMPS / DETECTABLE WARNINGS**

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, INSTALLATION OF THE CURB RAMPS / DETECTABLE WARNINGS WILL BE PERFORMED PRIOR TO MAINLINE RESURFACING.

**ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)**

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING ITEM 441 ASPHALT CONCRETE, TYPE 2. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A TYPE I PNEUMATIC TIRE ROLLER AND A STEEL WHEEL ROLLER AS PER 401.13. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. PAVEMENT REPAIRS WILL BE MARKED IN THE FIELD BY THE PROJECT ENGINEER ACCORDING TO CMS 251.02. MINIMUM WIDTH IS 2'. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF MAINLINE PAVEMENT PLANING. ALSO, THIS ITEM SHALL COMMENCE WITHIN 7 DAYS OF THE COMPLETION OF MAINLINE PAVEMENT PLANING. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:  
251, PARTIAL DEPTH PAVEMENT REPAIR (441), 1000 SQ. YD.



**INTERSECTIONS**

INTERSECTIONS WILL BE RESURFACED 10 FT. BEYOND THE EDGE LINE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR INDICATED IN THE PLAN. INTERSECTIONS SHALL BE PAVED AFTER COMPLETION OF THE SURFACE COURSE OR WITH THE MAINLINE PAVEMENT IF THIS CAN BE ACCOMPLISHED WITHOUT CHANGING THE VELOCITY AND DIRECTION OF THE PAVER. USE THE SAME ASPHALT CONCRETE AS THE MAINLINE PAVEMENT. A BUTT JOINT, AS PER STANDARD CONSTRUCTION DRAWING BP-3.1, SHALL BE USED TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING PAVEMENT. ANY GRADING OR PRIME NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE COST OF THE ASPHALT SURFACE COURSE.

**ITEM 408 - PRIME COAT, AS PER PLAN**

APPLY "MC-70" AT A RATE OF 0.4 GALLONS PER SQUARE YARD, OR AS DETERMINED BY THE ENGINEER, TO THE COMPLETED COMPACTED AGGREGATE SHOULDER.

**ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN**

IN LOW SHOULDER AREAS EXCEEDING 1", AND ADJACENT TO THE SAFETY EDGE, OR AS DIRECTED BY THE ENGINEER, RECYCLED ASPHALT PAVEMENT (RAP) SHALL BE USED IN AREAS ADJACENT TO THE PAVED BERM. THE RAP SHALL HAVE A MINIMUM PG CONTENT OF 4.5% AND MEET THE FOLLOWING GRADATION. ONCE THE STOCKPILE MEETS THE GRADATION, THE PG CONTENT OF THE RAP SHALL BE DETERMINED PER 441.03. THE RAP ANALYSIS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL 2 WEEKS PRIOR TO USE. METHOD OF MEASUREMENT SHALL BE AS PER 617.06. PLACEMENT AND COMPACTION SHALL MEET THE REQUIREMENTS OF ITEM 617. ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 617 COMPACTED AGGREGATE, AS PER PLAN.

MODIFIED GRADATION SHALL APPLY:

SIEVE	TOTAL PERCENT PASSING
1-1/2"	100
3/4"	50-100
NO. 4	35-70
NO. 30	9-33
NO. 200	0-13

**PAVING AT RAILROAD CROSSING**

WORK THE CROWN OUT OF THE PROPOSED PAVEMENT ON EACH SIDE OF THE RAILROAD CROSSING, BEGINNING 50 FEET FROM THE NEAREST RAIL, BY RAISING THE EDGES OF THE NEW PAVEMENT TO MEET THE PLATFORM ELEVATION.

**RUMBLE STRIPES**

THE FOLLOWING ESTIMATED QUANTITIES HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE ALONG SR 7 WITHIN THE PROJECT LIMITS FROM:

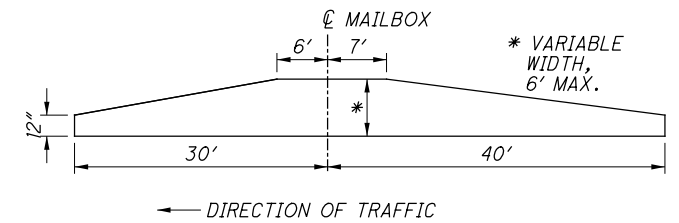
- EDGE LINE:  
SR 7: SLM 0.00 TO SLM 3.25
- CENTER LINE:  
SR 7: SLM 0.00 TO SLM 3.25

ITEM 618, RUMBLE STRIPES, EDGE LINE	6.50 MILES
ITEM 618, RUMBLE STRIPES, CENTER LINE	3.25 MILES
ITEM 874, LONGITUDINAL JOINT PREPARATION	18,900 FEET

**PAVED MAILBOX APPROACHES**

ALL EXISTING MAIL BOX APPROACHES WILL BE PAVED WITH ASPHALT CONCRETE AS PER TYPICAL SHOWN OR AS NEAR AS PRACTICAL. AGGREGATE APPROACHES SHALL HAVE A 2 IN. MIN. THICKNESS; IMPROVED APPROACHES SHALL HAVE A 2 IN. MIN. THICKNESS. THE CONTRACTOR SHALL HAVE THE OPTION OF PAVING THE MAILBOX APPROACHES WITH EITHER THE PAVING OF THE DRIVEWAYS OR THE PAVING OF THE MAINLINE AND SHOULDERS. PAYMENT SHALL BE AS FOLLOWS:

GRADING, TACK, TOOLS, EQUIPMENT, MATERIAL AND INCIDENTALS REQUIRED TO LAYOUT AND CONSTRUCT THE MAILBOX APPROACHES SHAL BE INCLUDED IN THE UNIT BID FOR THE SPECIFIED MAINLINE SURFACE COURSE ASPHALT ITEM.



CALCULATED  
SJD  
CHECKED  
MAC

GENERAL NOTES

MAH-7-0.00

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SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED SJD	CHECKED MAC
4	5	6	7	10	13	14	15				01/STR/PV	EXT	TOTAL						
<b>ROADWAY</b>																			
					574						574	202	23500	574	SY	WEARING COURSE REMOVED			
				1,048							1,048	202	30000	1,048	SF	WALK REMOVED			
				45							45	202	32000	45	FT	CURB REMOVED			
				106							106	202	32500	106	FT	CURB AND GUTTER REMOVED			
				2							2	203	40000	2	CY	BORROW			
	378										378	209	60200	378	STA	LINEAR GRADING			
					27						27	209	72000	27	STA	PREPARING SUBGRADE FOR SHOULDER PAVING			
				609							609	608	10000	609	SF	4" CONCRETE WALK			
				439							439	608	52000	439	SF	CURB RAMP			
13											13	623	39501	13	EACH	MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN		4	
	1										1	SPECIAL	69050100	1	EACH	MAILBOX SUPPORT SYSTEM, SINGLE		4	
<b>EROSION CONTROL</b>																			
	21,000			39							21,039	659	10000	21,039	SY	SEEDING AND MULCHING			
	2.83										2.83	659	20000	2.83	TON	COMMERCIAL FERTILIZER			
	4.34										4.34	659	31000	4.34	ACRE	LIME			
	113.4										113.4	659	35000	113.4	MGAL	WATER			
											1,000	832	30000	1,000	EACH	EROSION CONTROL			
<b>DRAINAGE</b>																			
	2										2	611	98630	2	EACH	CATCH BASIN ADJUSTED TO GRADE			
	1										1	611	98634	1	EACH	CATCH BASIN RECONSTRUCTED TO GRADE			
	3										3	611	99655	3	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN		5	
<b>PAVEMENT</b>																			
1,000											1,000	251	01000	1,000	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)			
				7,633							7,633	254	01000	7,633	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T=2.0")			
				489							489	407	20000	489	GAL	NON-TRACKING TACK COAT @ 0.06 GAL/SY			
				5,926							5,926	407	20000	5,926	GAL	NON-TRACKING TACK COAT @ 0.09 GAL/SY			
				3,192							3,192	408	10001	3,192	GAL	PRIME COAT, AS PER PLAN @ 0.40 GAL/SY		4	
	10										10	411	10000	10	CY	STABILIZED CRUSHED AGGREGATE (FIELD DRIVES)			
				1,855							1,855	424	12001	1,855	CY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, AS PER PLAN (T=1.0")		5	
				227							227	441	50200	227	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) (T=1.0")			
				43							43	609	12000	43	FT	COMBINATION CURB AND GUTTER, TYPE 2			
				28							28	609	26000	28	FT	CURB, TYPE 6			
				444							444	617	10101	444	CY	COMPACTED AGGREGATE, AS PER PLAN (T=2.0")		4	
6.5											6.5	618	41000	6.5	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)			
3.25											3.25	618	43000	3.25	MILE	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)			
18,900											18,900	874	20000	18,900	FT	LONGITUDINAL JOINT PREPARATION			
				57,700							57,700	897	01010	57,700	SY	PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A (T=1.0")			
<b>TRAFFIC CONTROL</b>																			
						319					319	621	00100	319	EACH	RPM			
						324					324	621	54000	324	EACH	RAISED PAVEMENT MARKER REMOVED			
							7.16				7.16	646	10000	7.16	MILE	EDGE LINE, 4"			
							3.58				3.58	646	10200	3.58	MILE	CENTER LINE			
							348				348	646	10300	348	FT	CHANNELIZING LINE, 8"			
								89			89	646	10400	89	FT	STOP LINE			
								615			615	646	10500	615	FT	CROSSWALK LINE			
								2			2	646	20000	2	EACH	RAILROAD SYMBOL MARKING			
								4			4	646	20300	4	EACH	LANE ARROW			
<b>TRAFFIC SIGNALS</b>																			
		2									2	809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN		6	
		2									2	809	69101	2	EACH	STOP LINE RADAR DETECTION, AS PER PLAN		6	

**GENERAL SUMMARY**

**MAH-7-0-00**