

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), THE CITY OF AKRON (MICHAEL LUPICA AT 330-375-2851), 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.

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.

THE ALIGNMENT SHOWN IN THE PLANS IS FOR QUANTITY PURPOSES ONLY, AND WAS NOT GENERATED BY A FIELD SURVEY.

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.

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 93	9.10 11.40	11'
SR 162	7.26 8.83	11'

NEW PAVEMENT MARKINGS

NEW PAVEMENT MARKING PATTERNS WILL BE INCLUDED AS PART OF THIS PROJECT ON BOTH SR 93 AND SR 162. STRIPING PLANS FOR THESE NEW PATTERNS WILL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING.

**ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)
 (NOT FOR SR 93 SLM 9.53 - 9.80)**

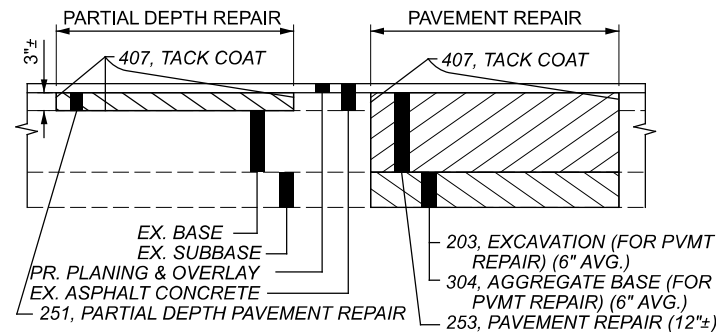
A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING ITEM 441 ASPHALT CONCRETE, TYPE 2. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A TYPE I PNEUMATIC TIRE ROLLER AND A STEEL 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 5 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:

SR 93: 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 1,400 SQ. YD.
 SR 162: 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 1,100 SQ. YD.

**ITEM 253 - PAVEMENT REPAIR
 (NOT FOR SR 93 SLM 9.53 - 9.80)**

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUTTING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH AND PLACING 12"± 301 ASPHALT CONCRETE BASE, PG64-22. THE MAXIMUM COMPACTED DEPTH OF ANY ONE LAYER SHALL BE 6 INCHES. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF MAINLINE PAVEMENT PLANING. ALSO, THIS ITEM SHALL COMMENCE WITHIN 5 DAYS OF THE COMPLETION OF MAINLINE PAVEMENT PLANING. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REMOVED AND REPLACED TO THE LIMITS DESIGNATED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

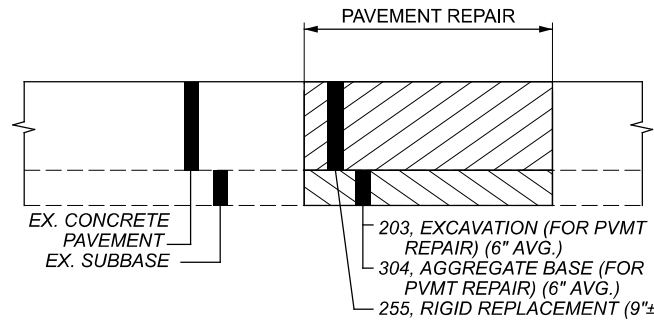
SR 93: 252, FULL DEPTH PAVEMENT SAWING, 990 FT
 253, PAVEMENT REPAIR, 165 SQ YD
 SR 162: 252, FULL DEPTH PAVEMENT SAWING, 810 FT
 253, PAVEMENT REPAIR, 135 SQ YD



**ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT,
 CLASS RRCM (TO BE USED ON SR 93 SLM 9.53 - 9.80)**

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUTTING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH AND PLACING 9"± 452 CLASS RRCM CONCRETE. THE MAXIMUM COMPACTED DEPTH OF ANY ONE LAYER SHALL BE 6 INCHES. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REMOVED AND REPLACED TO THE LIMITS DESIGNATED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

252, FULL DEPTH PAVEMENT SAWING, 3000 FT
 255, FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS RRCM, 500 SY



ITEM 203 - EXCAVATION (FOR 253 & 255 PAVEMENT REPAIR)

THIS ITEM OF WORK SHALL CONSIST OF REMOVING AND DISPOSING OF ALL UNSUITABLE MATERIAL BY EXCAVATING THE EXISTING SUBGRADE AND SUBBASE TO AN AVERAGE DEPTH OF 6 INCHES OR AS DIRECTED BY THE ENGINEER. EXACT LIMITS OF REMOVAL SHALL BE DETERMINED BY THE ENGINEER. ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203 EXCAVATION (FOR PAVEMENT REPAIR). THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

203, EXCAVATION (FOR PAVEMENT REPAIR) 140 CU YD

ITEM 304 - AGGREGATE BASE (FOR 253 & 255 PAVEMENT REPAIR)

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED AND SHALL BE USED AS DIRECTED BY THE ENGINEER TO BACKFILL AREAS WHICH WERE EXCAVATED UNDER ITEM 203 EXCAVATION (FOR PAVEMENT REPAIR). THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

304, AGGREGATE BASE (FOR PAVEMENT REPAIR) 140 CU YD

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

**ITEM 424 - FINE GRADED POLYMER ASPHALT CONCRETE,
 TYPE A, AS PER PLAN**

703.05 DO NOT USE ANY AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

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. A BUTT JOINT, AS PER STANDARD CONSTRUCTION DRAWING BP-3.1, SHALL BE USED TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING PAVEMENT. USE THE SAME ASPHALT CONCRETE AS THE MAINLINE PAVEMENT UNLESS SHOWN OTHERWISE ON THE ASPHALT CONCRETE CALCULATIONS SHEET. ANY GRADING OR PRIME NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE COST OF THE PERTINENT BID ITEM.

CURB RAMPS / DETECTABLE WARNINGS

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

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

202 - CURB REMOVED, 166 EACH

- ITEM 611 – MANHOLE ADJUSTED TO GRADE, AS PER PLAN
- ITEM 623 – MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN
- ITEM 638 – VALVE BOX ADJUSTED TO GRADE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 611.10.D FOR MANHOLES, 623.05 FOR MONUMENT BOXES, OR 638.18 FOR VALVE BOXES, THE CONTRACTOR WILL MAKE A CLEAN CIRCULAR CUT AROUND THE CASTING (A MINIMUM OF 1'-0" OUTSIDE THE CASTING) AND REMOVE AND DISCARD THE EXISTING CASTING. INSTALL A NEW CASTING TO GRADE (ACCORDING TO TOLERANCES AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1) AFTER THE PAVEMENT SURFACE COURSE HAS BEEN REPLACED.

CMS 499 CLASS QCMS CONCRETE (DYE THE CONCRETE SUCH THAT ITS COLOR CLOSELY MATCHES THE COLOR OF THE SURROUNDING PAVEMENT) WILL BE USED FOR BACKFILLING THE FULL PAVEMENT SECTION AND THE JOINT BETWEEN THE ASPHALT AND CONCRETE WILL BE SEALED WITH CMS 702.01 PG BINDER. EPOXY COATED REBAR SHALL BE PLACED IN THE CONCRETE AT 6" MAXIMUM ON CENTER AND A MINIMUM OF 3.5" CLEARANCE FROM THE TOP, BOTTOM AND SIDES. THE CONCRETE WILL BE VIBRATED SUFFICIENTLY TO ELIMINATE AIR POCKETS UNDER THE FRAME.

PAYMENT WILL INCLUDE REMOVAL OF THE EXISTING MATERIAL, INSTALLATION AND FURNISHING OF A NEW CASTING, AND ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THIS ITEM OF WORK AS DESCRIBED.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

- 611 - MANHOLE ADJUSTED TO GRADE, AS PER PLAN, 145 EACH
- 623 - MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN, 42 EACH
- 638 - VALVE BOX ADJUSTED TO GRADE, AS PER PLAN, 90 EACH

DESIGN AGENCY




DESIGNER	MJP
REVIEWER	MAC
PROJECT ID	102742
SHEET	TOTAL
P.3	18

SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	5	6	9	10	11	16	17	18	01/S>2/PVIAKRO5>2/OT/AKRO	EXT	TOTAL					
ROADWAY																	
				5,863	4,029	1,626					11,518	202	30000	11,518	SF	WALK REMOVED	
166											166	202	32000	166	FT	CURB REMOVED	
140											140	203	10000	140	CY	EXCAVATION (FOR PAVEMENT REPAIR)	
				421							421	203	10000	421	CY	EXCAVATION (FOR WALK OR CURB RAMP INSTALLATION)	
				6							6	203	40000	6	CY	BORROW	
				206	184	177					567	608	10000	567	SF	4" CONCRETE WALK	
				5,605	3,739	1,433					10,777	608	52000	10,777	SF	CURB RAMP	
					8	16					24	608	53020	24	SF	DETECTABLE WARNING	
42										42	623	39501	42	EACH	MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN	3	
					2	1					3	625	31600	3	EACH	PULL BOX, MISC.: ADJUSTED TO GRADE	8
EROSION CONTROL																	
				53	99						152	659	10000	152	SY	SEEDING AND MULCHING	
										3,000	832	30000	3,000	EACH	EROSION CONTROL		
DRAINAGE																	
	80										80	611	98630	80	EACH	CATCH BASIN ADJUSTED TO GRADE	
	15										15	611	98634	15	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
					2	2					4	611	99654	4	EACH	MANHOLE ADJUSTED TO GRADE	
145										145	611	99655	145	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN	3	
	600										600	SPECIAL	61199820	600	LB	MISCELLANEOUS METAL	4
PAVEMENT																	
2,500										2,500	251	01000	2,500	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)		
4,800										4,800	252	01500	4,800	FT	FULL DEPTH PAVEMENT SAWING		
300										300	253	01000	300	SY	PAVEMENT REPAIR		
							41,782	41,897		83,679	254	01000	83,679	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T = 2")		
500										500	255	10500	500	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS RRCM		
140										140	304	20000	140	CY	AGGREGATE BASE		
							5,433	5,447		10,880	407	20000	10,880	GAL	NON-TRACKING TACK COAT		
							836	829		1,665	424	10001	1,665	CY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE A, AS PER PLAN	1	
							95	120		215	441	50000	215	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22		
							1,451	1,455		2,906	441	50200	2,906	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)		
					12	6					18	609	12000	18	FT	COMBINATION CURB AND GUTTER, TYPE 2	
				82	56	28					166	609	26000	166	FT	CURB, TYPE 6	
WATER WORK																	
				2	4	1					7	638	10800	7	EACH	VALVE BOX ADJUSTED TO GRADE	
90										90	638	10801	90	EACH	VALVE BOX ADJUSTED TO GRADE, AS PER PLAN	3	
TRAFFIC CONTROL																	
									3.67	3.67	644	00104	3.67	MILE	EDGE LINE, 6"		
									0.66	0.66	644	00204	0.66	MILE	LANE LINE, 6"		
									3.58	3.58	644	00300	3.58	MILE	CENTER LINE		
									10,538	10,538	644	00400	10,538	FT	CHANNELIZING LINE, 8"		
									34	34	644	00404	34	FT	CHANNELIZING LINE, 12"		
									364	364	644	00500	364	FT	STOP LINE		
									2,365	2,365	644	00620	2,365	FT	CROSSWALK LINE, 12"		
									268	268	644	00700	268	FT	TRANSVERSE/DIAGONAL LINE		
									339	339	644	00900	339	SF	ISLAND MARKING		
									2	2	644	01110	2	EACH	SCHOOL SYMBOL MARKING, 96"		
									112	112	644	01300	112	EACH	LANE ARROW		
									590	590	644	01510	590	FT	DOTTED LINE, 6"		
									49	49	644	01630	49	EACH	BIKE LANE SYMBOL MARKING		
									3,384	3,384	644	60000	3,384	SF	GREEN COLORED PAVEMENT FOR BIKE LANES		
MAINTENANCE OF TRAFFIC																	
			350							350	614	11111	350	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE, AS PER PLAN	5	
	40									40	614	12460	40	EACH	WORK ZONE MARKING SIGN		
	20									20	614	13000	20	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC		
		12								12	614	18601	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	5	
	8.52									8.52	614	20110	8.52	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT		

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
MJP

REVIEWER
MAC 11-17-21

PROJECT ID
102742

SHEET TOTAL
P.7 18