### 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 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)

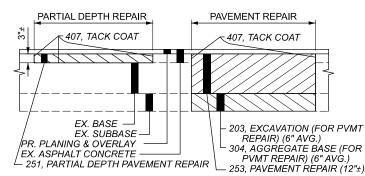
A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING ITEM 441 ASPHALT CONCRETE. TYPE 2. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A TYPE I PNEUMATIC TIRE ROLLER AND A STEEL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

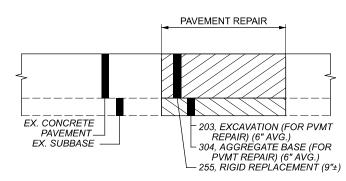
SR 93: 252, FULL DEPTH PAVEMENT SAWING, 990 FT 253, PAVEMENT REPAIR, 165 SQ YD SR 162: 252, FULL DEPTH PAVEMENT SAWING, 810 FT 253, PAVEMENT REPAIR, 135 SQ YD



### ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, ITEM 424 - FINE GRADED POLYMER ASPHALT CONCRETE, 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 ESTIMATEDQUANTITY 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.

# 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 TOI FRANCES 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





 				SHEE	T NUM.						PAF	रा.	ITEM	ITEM	GRAND	UNIT	DE
3	4	5	6	9	10	11	16	17	18	01/S	6>2/PV/AKOR	26>2/OT/AKR		EXT	TOTAL	UNIT	
				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 INSTALLATIO
				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
					2	1						3	625	31600	3	EACH	PULL BOX, MISC.: ADJUSTED TO GRADE
																	ERO
				53	99							152	659	10000	152	SY	SEEDING AND MULCHING
											3,000	-	832	30000	3,000	EACH	EROSION CONTROL
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	80										80	45	611	98630	80	EACH	CATCH BASIN ADJUSTED TO GRADE
 	15											15	611	98634 99654	15 4	EACH	CATCH BASIN RECONSTRUCTED TO GRADE
145					2	2					145	4	611			EACH	MANHOLE ADJUSTED TO GRADE MANHOLE ADJUSTED TO GRADE, AS PER PLAN
 145	600										145	600	611 SPECIAL	99655 61199820	145 600	EACH LB	MANHOLE ADJUSTED TO GRADE, AS PER PLAN MISCELLANEOUS METAL
	000											000	GFLOIAL	01199020	000		
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	
500							41,782	41,897			83,679	500	254	01000	83,679	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T = 2")
 500												500	255	10500	500	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACE
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,
							95	120			215		441	50000	215	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448)
							1,451	1,455			2,906		441	50200	2,906	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1,
					12	6						18	609	12000	18	FT	COMBINATION CURB AND GUTTER, TYPE 2
				82	56	28						166	609	26000	166		CURB, TYPE 6
												-	000	40000	-	EAGU	W
00				2	4	1					00	7	638 638	10800 10801	7 90	EACH EACH	VALVE BOX ADJUSTED TO GRADE VALVE BOX ADJUSTED TO GRADE, AS PER PLAN
90											90		038	10801	90	EACH	VALVE BOX ADJUSTED TO GRADE, AS PER PLAN
																	TRA
									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	00500	2,365	FT	CROSSWALK LINE, 12"
									2,303		2,303		644	00700	2,303	FT	TRANSVERSE/DIAGONAL LINE
 								I	339		339		644	00900	339	SF	ISLAND MARKING
													644	01110		=	
									2		2			01110	2	EACH	SCHOOL SYMBOL MARKING, 96"
											2		644	01300	2	EACH	SCHOOL SYMBOL MARKING, 96"
									2								
									2 112 590 49		112 590 49		644	01300	112	EACH FT EACH	LANE ARROW
									2 112 590		112 590		644 644	01300 01510	112 590	EACH FT	LANE ARROW DOTTED LINE, 6"
									2 112 590 49		112 590 49		644 644 644	01300 01510 01630	112 590 49	EACH FT EACH	LANE ARROW DOTTED LINE, 6" BIKE LANE SYMBOL MARKING GREEN COLORED PAVEMENT FOR BIKE LANES
			350						2 112 590 49		112 590 49 3,384		644 644 644 644	01300 01510 01630 60000	112 590 49 3,384	EACH FT EACH SF	LANE ARROW DOTTED LINE, 6" BIKE LANE SYMBOL MARKING GREEN COLORED PAVEMENT FOR BIKE LANES MAINTER
		40	350						2 112 590 49		112 590 49		644 644 644	01300 01510 01630	112 590 49	EACH FT EACH	LANE ARROW DOTTED LINE, 6" BIKE LANE SYMBOL MARKING GREEN COLORED PAVEMENT FOR BIKE LANES
		<u>40</u> 20	350						2 112 590 49		112 590 49 3,384 3,384		644 644 644 644 644 644	01300 01510 01630 60000 11111	112 590 49 3,384 350	EACH FT EACH SF HOUR	LANE ARROW DOTTED LINE, 6" BIKE LANE SYMBOL MARKING GREEN COLORED PAVEMENT FOR BIKE LANES MAINTEN LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR
		20	350						2 112 590 49		112 590 49 3,384 350 40 20 12		644 644 644 644 644 614	01300 01510 01630 60000 111111 12460	112 590 49 3,384 350 40 20 12	EACH FT EACH SF HOUR EACH	LANE ARROW DOTTED LINE, 6" BIKE LANE SYMBOL MARKING GREEN COLORED PAVEMENT FOR BIKE LANES MAINTEN LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR WORK ZONE MARKING SIGN
									2 112 590 49		112 590 49 3,384 350 40 20		644 644 644 644 644 614 614 614	01300 01510 01630 60000 111111 12460 13000	112 590 49 3,384 350 40 20	EACH FT EACH SF HOUR EACH CY	LANE ARROW DOTTED LINE, 6" BIKE LANE SYMBOL MARKING GREEN COLORED PAVEMENT FOR BIKE LANES MAINTEN LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR WORK ZONE MARKING SIGN ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

DESCRIPTION	SEE SHEET NO.	
ROADWAY		
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AN	3	
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ROSION CONTROL		
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		$\succ$
		GENERAL SUMMARY
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ACEMENT, CLASS RRCM		Z
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E 1, (448)		
WATER WORK		
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RAFFIC CONTROL		
		DESIGN AGENCY
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TENANCE OF TRAFFIC		DEGIONES
OR ASSISTANCE, AS PER PLAN	5	
		REVIEWER
PLAN		MAC 11-17-21
L/ 111	5	PROJECT ID 102742
		SHEET TOTAL
		P.7 18