

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

MAH-76/80-3.53/0.00

JACKSON & AUSTINTOWN TOWNSHIPS

MAHONING COUNTY

FEDERAL PROJECT NUMBER

NONE

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

FULL DEPTH CONCRETE REPAIRS ON MAH-76 & MAH-80

EARTH DISTURBED AREAS

PROJECT EDA:	N/A (MAINTENANCE PROJECT)
ESTIMATED CONTRACTOR EDA:	N/A (MAINTENANCE PROJECT)
NOTICE OF INTENT EDA:	N/A (MAINTENANCE PROJECT)

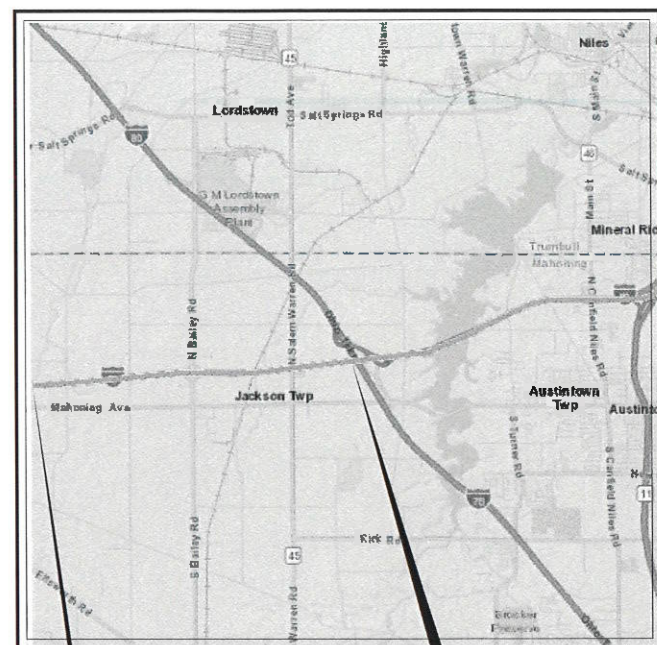
LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



LOCATION MAP



INDEX OF SHEETS:

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DESIGN DESIGNATION

DESIGN FUNCTIONAL CLASSIFICATION:
 RURAL FREEWAYS AND EXPRESSWAYS (MAH-76 SLM 3.53 - 8.65, MAH-80 SLM 0.00 - 1.69)
 URBAN FREEWAYS AND EXPRESSWAYS (MAH-80 SLM 1.69 - 5.02)
 NHS PROJECT ----- YES

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES
 Contact Two Working Days
 Before You Dig

OHIO811.org
 Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
 (Non members must be called directly)

PLAN PREPARED BY:
 ODOT DISTRICT 4 CAPITAL PLANNING
 2088 S. ARLINGTON RD.
 AKRON, OH 44306

ENGINEER'S SEAL:

SIGNED: M. J. Andrasik
 DATE: 6/25/21

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-2.2	1/15/21	TC-42.20	10/18/13	800-2019	7/16/21
BP-2.4	7/19/13	TC-52.10	10/18/13	821	4/20/12
BP-2.6	7/15/16	TC-52.20	1/15/21	921	4/20/12
BP-3.1	1/17/20	TC-65.10	1/17/14		
		TC-65.11	7/21/17		
MT-95.30	7/19/19	TC-72.20	7/20/18		
MT-98.10	1/17/20				
MT-98.11	1/17/20				
MT-98.20	4/19/19				
MT-98.22	1/17/20				
MT-98.28	1/17/20				
MT-99.20	4/19/19				
MT-101.90	7/17/20				
MT-105.10	1/17/20				
TC-41.20	10/18/13				
TC-42.10	10/18/13				

APPROVED: Jack Marchbanks
 DATE: 6/29/21 DISTRICT DEPUTY DIRECTOR

APPROVED _____
 DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

DESIGN AGENCY

DESIGNER: MJA
 REVIEWER: TJP
 PROJECT ID: 115092
 SHEET TOTAL: P.1 | 41

MAH-76/80-3.53/0.00
 MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 6/25/2021 TIME: 11:46:22 AM USER: mmandrasik
 p:\c\dot\p\p\benley\com\dot\p\p\2\Documents\01 Active Projects\District 4\Capital Planning\115092\400-EP\Engineering\Roadway\Sheet\115092_01T001.dgn

TITLE SHEET

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.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)
 OGPUPS 1-800-925-0988
 ODOT 330-786-2267 MICHELLE CHANEY

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

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.

ITEM 258 - RETROFIT DOWEL BAR

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED AND SHALL BE USED AS DIRECTED BY THE ENGINEER TO REPAIR TRANSVERSE CRACKS WITHOUT ANY SETTLEMENT. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 258 - RETROFIT DOWEL BAR, 1,000 EACH

EXISTING UNDERDRAINS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED AND SHALL BE USED AS DIRECTED BY THE ENGINEER TO REPAIR ANY EXISTING DAMAGED UNDERDRAINS AND CONFIRM THEY ARE UNOBSTRUCTED

ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 1,000 FEET
 ITEM 616, WATER, 20 M GAL

ALL EXISTING UNDERDRAINS THAT WERE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

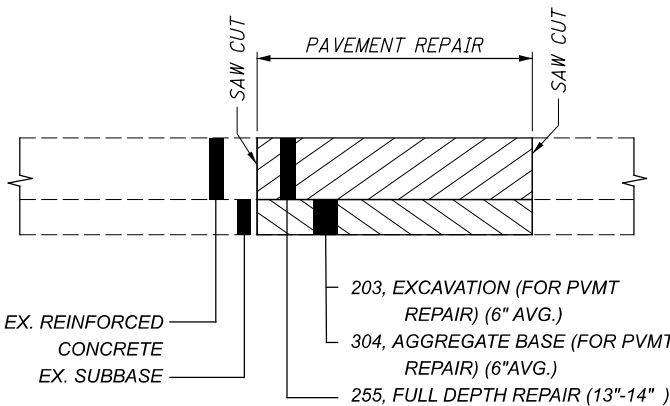
ITEM 255 - FULL DEPTH REMOVAL AND RIGID REPLACEMENT; CLASS QC1 AND CLASS RRCM OR QC3, AS PER PLAN

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 13" - 14" CLASS QC1 CONCRETE OR CLASS RRCM CONCRETE, AS PER PLAN. 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 REPAIR LOCATIONS MUST BE DOCUMENTED FOR FUTURE REFERENCE. EXISTING ASPHALT PATCHES SHALL ALSO BE CONSIDERED AREAS THAT NEED REPAIRED. PLAN PAGES 7-41 HAVE SUGGESTED LOCATIONS FOR REPAIRS.

CONCRETE, CLASS RRCM, AS PER PLAN, SHALL BE USED ON MAH-76 AND MAH-80 ON THE MIDDLE LANES, NEAR RAMPS, AT SLM 5.00, AND OTHER AREAS AS DIRECTED BY THE PROJECT ENGINEER OR WHERE RESTRICTED BY THE PERMITTED LANE CLOSURE CHART.

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

ITEM 255 - FULL DEPTH REMOVAL AND RIGID REPLACEMENT, MISC.: CLASS RRCM OR QC3, AS PER PLAN, 4,500 SY
 ITEM 255 - FULL DEPTH REMOVAL AND RIGID REPLACEMENT, CLASS QC1, 1,500 SY
 ITEM 255 - FULL DEPTH PAVEMENT SAWING, 27,000 FT



ITEM 203 - EXCAVATION (FOR 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:

ITEM 203 - EXCAVATION (FOR PAVEMENT REPAIR), 1,000 CU YD

ITEM 304 - AGGREGATE BASE (FOR 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), 1,000 CU YD

CONCRETE, CLASS RRCM OR QC3, AS PER PLAN (FOR FULL DEPTH REPAIRS)

THE MATERIAL REQUIREMENTS OF CMS 255.02 MAY BE MODIFIED AS FOLLOWS:

PROVIDE A RRCM MIXTURE MEETING THE REQUIREMENTS OF CMS 255.02 OR AN ALTERNATE RRCM MIXTURE CONFORMING THE FOLLOWING REQUIREMENTS:

PORTLAND CEMENT CONCRETE 499.03, CLASS QC3, W/MACRO-FIBERS

PROVIDE A MIXTURE MEETING THE REQUIREMENTS OF WELL GRADED IN ITEM 499.

AIR CONTENT: 4 TO 8 PERCENT

FLEXURAL STRENGTH: DEVELOP A RRCM CONCRETE MIX THAT WILL ACHIEVE A FLEXURAL STRENGTH OF 300 PSI (2.8 MPA) IN NOT LESS THAN 4 HOURS AND NOT MORE THAN 6 HOURS USING 6" X 6" (150 MM X 150 MM) BEAM SAMPLES CONFORMING TO ASTM C293.

PERMEABILITY: 2,000 COULOMBS

COARSE AGGREGATE (NO. 57 & NO. 8)	703.02 & 703.13
FINE AGGREGATE (NATURAL SAND)	703.02
PORTLAND CEMENT, TYPE 1*	701.04
FLY ASH OR NATURAL POZZOLAN	701.13
SLAG CEMENT	701.11
WATER	499.02
CHEMICAL ADMIXTURE**	705.12
AIR-ENTRAINING ADMIXTURE	705.10
MACRO-FIBERS FOR CONCRETE***	705.29
LIQUID MEMBRANE-FORMING COMPOUNDS FOR CONCRETE CURING	705.07

* PROVIDE A MIXTURE WITH A PORTLAND CEMENT CONTENT OF 660 LB OR LESS AND A TOTAL CEMENTITIOUS CONTENT OF 850 LB OR LESS.

** MAXIMUM OF 0.5% CALCIUM CHLORIDE BY MASS OF CEMENTITIOUS CONTENT OR A LIQUID NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED TO GENERATE EARLY STRENGTH DEVELOPMENT. SPECIALTY TYPE 'S' ADMIXTURE ALSO PERMITTED (SUBMITTAL OF MANUFACTURER'S DATA SHEET REQUIRED).

*** USE A MINIMUM DOSAGE RATE OF FIBERS OF 4.0 LB/CY OF CONCRETE. ENSURE THE FINAL PROPOSED MIX IS WORKABLE AND ABLE TO BE PRODUCED SUCH THAT BALLING OR CLUMPING OF THE FIBERS IS NOT A PROBLEM AS DETERMINED BY THE ENGINEER. A DEMONSTRATION OF THE MIX PRODUCTION, OR TRIAL MIX, MAY BE REQUIRED BY THE ENGINEER PRIOR TO PLACING ANY OF THE MIX ON THE PROJECT.

SUBMIT LAB TESTING RESULTS OF THE ALTERNATE RRCM MIXTURE USING THE ACTUAL MATERIALS THAT WILL BE USED ON THE PROJECT. MAKE AT LEAST FIVE BEAM SPECIMENS AND TEST THEM AT 3, 4, 5, 6, & 8 HOURS AGE. ALTERNATELY, THE CONTRACTOR MAY DEVELOP THE MIX'S MATURITY CURVE ACCORDING TO SUPPLEMENT 1098.

DO NOT OPEN THE RIGID REPLACEMENT TO TRAFFIC UNTIL THE RRCM ATTAINS A MODULUS OF RUPTURE OF 300 POUNDS PER SQUARE INCH (2.8 MPA) BASED ON MATURITY TESTING OR BEAM TESTING ON THE PROJECT.

THE JMF WILL NOT BE APPROVED FOR USE ON THE ENTIRE PROJECT UNTIL A SUCCESSFUL FIELD PLACEMENT IS PERFORMED ON THE PROJECT WITH THE MIX DESIGN. THIS PLACEMENT MUST DEMONSTRATE THE MIXTURE IS CAPABLE OF MEETING THE PRESCRIBED FLEXURAL STRENGTH AND TIME REQUIREMENTS.

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE. UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1, 10 SQ. YD.
 ITEM 605 - AGGREGATE DRAINS, 100 FT.
 ITEM 611 - 6" CONDUIT, TYPE F, 50 FT.
 ITEM 611 - PRECAST REINFORCED CONCRETE OUTLET, 10 EACH
 ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS, 100 FT.

ITEM 257 - DIAMOND GRINDING PORTLAND CEMENT CONCRETE PAVEMENT

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR DIAMOND GRINDING EXISTING MAINLINE CONCRETE PAVEMENT AND NEW FULL DEPTH CONCRETE REPAIRS ON IR 76 FROM SLM 3.53 TO SLM 8.65 AND IR 80 FROM SLM 0.00 TO SLM 5.02

ITEM 257 - DIAMOND GRINDING PORTLAND CEMENT CONCRETE PAVEMENT, 326,800 SY

THE DRINKING WATER SOURCE PROTECTION AREA

INLAND SURFACE WATER CORRIDOR MANAGEMENT ZONE OF THE MAHONING VALLEY SANITARY DISTRICT IS LOCATED WITHIN THE PROJECT LIMITS. USE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS ESTABLISHED FOR THE PROJECT. DO NOT STORE FUELS, TOXIC/HAZARDOUS MATERIALS AND CHEMICALS NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. MAINTAIN A SPILL KIT ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. IMMEDIATELY MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. REPORT ALL SPILLS OR EVENTS TO THE MAHONING VALLEY SANITARY DISTRICT AT (330) 652-3614. IF THE SPILL IS A REPORTABLE AMOUNT (PER OHIO EPA RELEASE REPORTING REQUIREMENTS), CONTACT THE MAHONING COUNTY EMERGENCY MANAGEMENT AT (330) 726-4155 OR THE OHIO EPA SPILLS HOTLINE AT (800) 282-9378 FOR CLEAN-UP OF THE SPILL.

PRESSURE RELIEF JOINTS

THE CONTRACTOR SHALL REPLACE ALL ASPHALT IN THE EXISTING PRESSURE RELIEF JOINTS AS DIRECTED BY THE PROJECT ENGINEER. THE FOLLOWING QUANTITY HAS BEEN CARRIED OVER TO THE GENERAL SUMMARY

ITEM 451 - SPECIAL - PRESSURE RELIEF JOINT, TYPE C, 1,420 FT

INTERIM COMPLETION DATE

ALL WORK ASSOCIATED WITH ITEM 255 - FULL DEPTH REMOVAL AND RIGID REPLACEMENT; CLASS QC1 AND CLASS RRCM OR QC3, AS PER PLAN SHALL BE COMPLETED BY OCTOBER 31, 2021. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$7,500 FOR EACH CALENDAR DAY BEYOND THIS DATE THIS WORK IS NOT COMPLETED.

DESIGN AGENCY



DESIGNER	MJA
REVIEWER	TJP
PROJECT ID	06-08-21
	115092
SHEET	TOTAL
P.2	41

SHEET NUM.										PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE
2	3	4	6	01/IMS/PV	EXT	TOTAL						SHEET NO.				
ROADWAY																
1,000				1,000	203	10000	1,000	CY	EXCAVATION							
EROSION CONTROL																
10				10	601	21050	10	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT							
20				20	616	10000	20	MGAL	WATER							
DRAINAGE																
100				100	605	13300	100	FT	6" UNCLASSIFIED PIPE UNDERDRAINS							
1,000				1,000	605	13410	1,000	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC							
100				100	605	31100	100	FT	AGGREGATE DRAINS							
150				150	611	00510	150	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS							
50				50	611	01500	50	FT	6" CONDUIT, TYPE F							
10				10	611	99710	10	EACH	PRECAST REINFORCED CONCRETE OUTLET							
PAVEMENT																
1,500				1,500	255	10010	1,500	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1							
4,500				4,500	255	10200	4,500	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, MISC.: CLASS RRCM OR QC3, AS PER PLAN			3				
12,000				12,000	255	20000	12,000	FT	FULL DEPTH PAVEMENT SAWING							
326,800				326,800	257	10000	326,800	SY	DIAMOND GRINDING PORTLAND CEMENT CONCRETE PAVEMENT							
1,000				1,000	258	10000	1,000	EACH	RETROFIT DOWEL BAR							
1,000				1,000	304	20000	1,000	CY	AGGREGATE BASE							
1,420				1,420	SPECIAL	45132000	1,420	FT	PRESSURE RELIEF JOINT, TYPE C			4				
TRAFFIC CONTROL																
					1,509	621	00100	1,509	EACH	RPM						
					1,207	621	54000	1,207	EACH	RAISED PAVEMENT MARKER REMOVED						
			38.42		38.42	642	00114	38.42	MILE	EDGE LINE, 6", TYPE 1A						
			28.48		28.48	642	00214	28.48	MILE	LANE LINE, 6", TYPE 1A						
			15,995		15,995	642	00414	15,995	FT	CHANNELIZING LINE, 12", TYPE 1A						
			1,000		1,000	642	00710	1,000	FT	TRANSVERSE/DIAGONAL LINE, TYPE 1A						
			10,135		10,135	642	01516	10,135	FT	DOTTED LINE, 6", TYPE 1A						
MAINTENANCE OF TRAFFIC																
					250	614	11110	250	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE						
					30	614	12460	30	EACH	WORK ZONE MARKING SIGN						
					8	614	18601	8	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN		5				
INCIDENTALS																
					LS	614	11000	LS		MAINTAINING TRAFFIC						
					LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING						
					LS	624	10000	LS		MOBILIZATION						

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
MJA

REVIEWER
TJP 06-08-21

PROJECT ID
115092

SHEET TOTAL
P.5 | 41


MAH-76/80-3.53/0.00

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COUNTY	ROUTE	LOCATION		SECTION (S.L.M.)					621	621	621	621	621	REMARKS
		RPM (YELLOW/YELLOW)	RPM (WHITE/RED)						RPM (WHITE)	RPM (YELLOW/RED)	RAISED PAVEMENT MARKER REMOVED			
		FROM	TO						EACH	EACH	EACH	EACH	EACH	
MAH	76	3.53	8.65							41	225		213	EASTBOUND
MAH	76	3.53	8.65							44	225		215	WESTBOUND
MAH	80	0.00	3.92							95	261		285	EASTBOUND
MAH	80	0.00	5.02							198	418		493	WESTBOUND
TOTALS CARRIED TO GENERAL SUMMARY										379	1130		1207	

RPM SUBSUMMARY

DESIGN AGENCY



DESIGNER
MJA

REVIEWER
XXX MM-DD-YY

PROJECT ID
0

SHEET TOTAL
P.6A 41