SEE SHEET 2 FOR LOCATION MAP

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STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

MAR-309-0.00

MONTGOMERY, BIG ISLAND, GRAND, MARION, AND SALT ROCK TOWNSHIPS MARION COUNTY

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PROJECT DESCRIPTION

ASPHALT CONCRETE PAVEMENT REHABILITATION WITH PAVEMENT REPAIRS AND MINOR BRIDGE REHABILITATION WORK FROM THE HARDIN COUNTY LINE (SLM 0.00) TO THE MARION CITY LIMITS (SLM 15.35).

EARTH DISTURBED AREAS

2019 SPECIFICATIONS

GOVERN THIS IMPROVEMENT.

ESTIMATES.

PROJECT FARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A* ACRES NOTICE OF INTENT EARTH DISTURBED AREA: N/A* ACRES * MAINTENANCE PROJECT

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

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

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OHIO DEPT. OF TRANSPORTATION

DISTRICT DEPUTY DIRECTOR

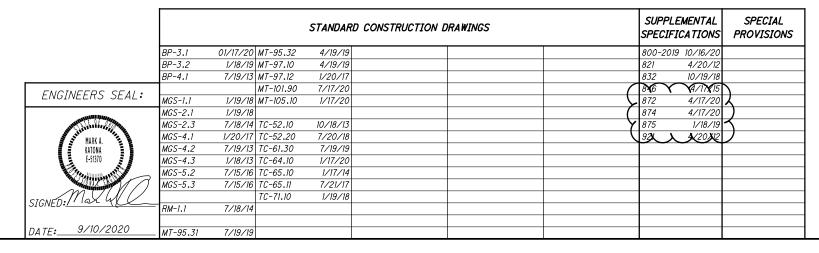
DIRECTOR, DEPARTMENT OF TRANSPORTATION

DESIGN DESIGNATION

SEE SHEET 2

Contact Two Working Days Before You Dig Before You Dla OHIO811, 8-1-1, or 1-800-362-2764





UNDERGROUND UTILITIES (Non-members must be called directly) PLAN PREPARED BY:

TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND

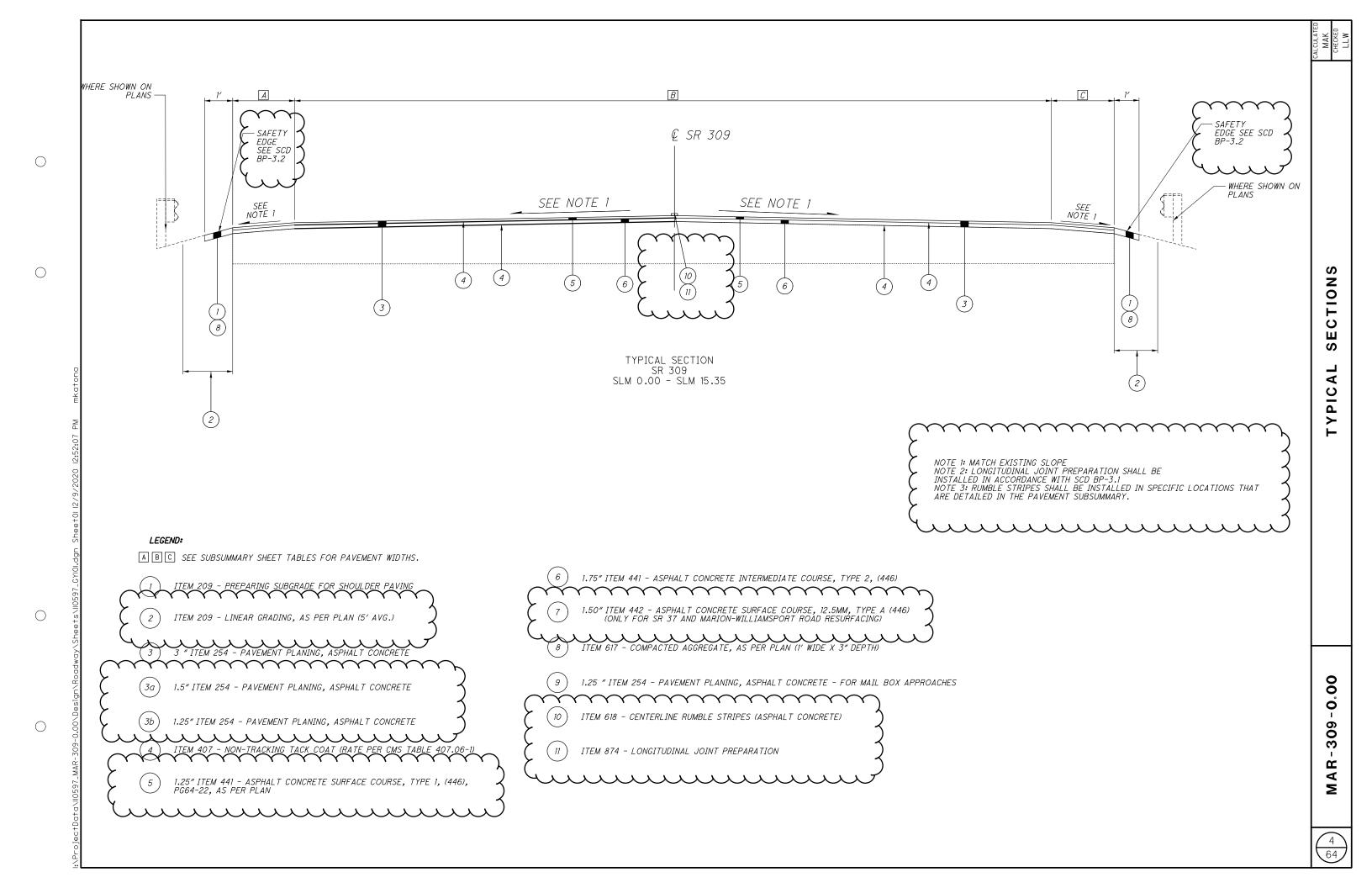
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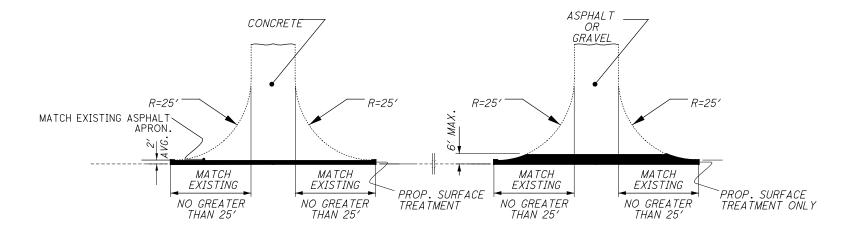
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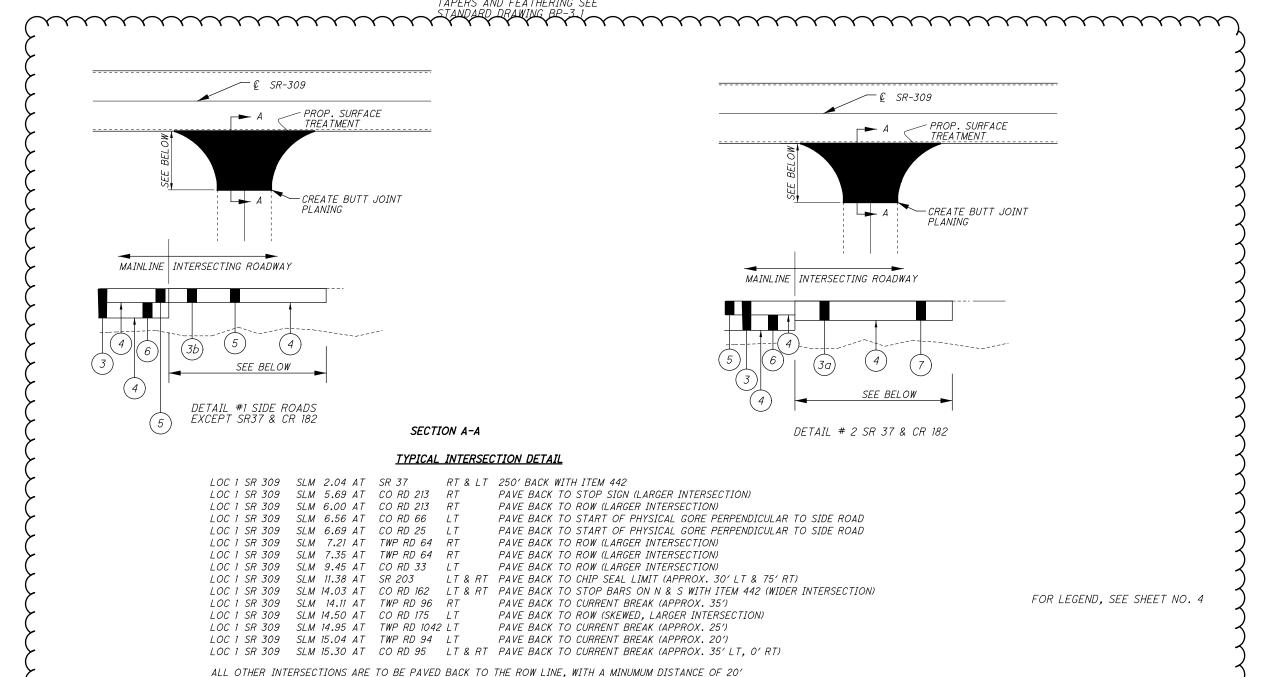
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TYPICAL DRIVEWAY APPROACH DETAILS

FOR MORE INFORMATION INVOLVING TAPERS AND FEATHERING SEE



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GENERAL:

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THE CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE OF OPERATIONS TO THE ENGINEER (SEE 108.02) AND RECEIVE APPROVAL IN WRITING BEFORE WORK IS STARTED ON THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

ALIGNMENT AND PROFILE:

THE WORK INVOLVED IN THIS PROJECT IS TO PLANE PAVEMENT WHILE MAINTAINING THE EXISTING CROSS-SLOPE (CROWN).

CONTRACTORS EQUIPMENT - OPERATION AND STORAGE:

THE CONTRACTORS EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC WHERE PRACTICAL. EQUIPMENT SHALL HAVE AT LEAST ONE AMBER FLASHING LIGHT. WHEN PARKED ALONG THE HIGHWAY, THE EQUIPMENT SHALL BE LOCATED EITHER A MINIMUM OF THIRTY FEET FROM THE EDGE OF PAVEMENT OR SIX FEET BEHIND GUARDRAIL WITH A MINIMUM OF 125 FEET OF GUARDRAIL PRECEDING THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT AN APPROVED CONTRACTORS STORAGE AREA.

CONTINGENCY QUANTITIES:

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

REMOVAL ITEMS:

UNLESS OTHERWISE INSTRUCTED, ASPHALT, GUARDRAIL, POSTS, DEBRIS, AND MISCELLANEOUS HARDWARE DESIGNATED FOR REMOVAL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE REMOVED ITEM.

WORK LIMITS:

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

DRIVEWAYS, SIDE ROADS, AND MAILBOX APPROACHES:

QUANTITIES AND DETAILS HAVE BEEN PROVIDED FOR THE TREATMENT OF DRIVEWAYS, INTERSECTIONS, AND MAILBOX APPROACHES. THE CONTRACTOR SHALL EXPECT TO "PAVE BACK" ON ALL EXISTING SIDE ROADS AS LISTED AND DETAILED IN THE TYPICAL DETAIL SECTION OF THIS PLAN. ONLY EXISTING ASPHALT MAILBOXES SHALL RECEIVE PROPOSED ASPHALT TREATMENTS. QUANTITIES OF ITEM 617 COMPACTED AGGREGATE HAS BEEN PROVIDED IN THE PLANS TO ACCOMMODATE FOR NON-ASPHALT APPROACHES.

COORDINATION WITH O.D.O.T.'S CENTRAL OHIO TRAFFIC MANAGEMENT PROGRAM (COTMP):

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES ON A WEEKLY BASIS. WHEN DETOURS ARE PLANNED, THIS NOTIFICATION SHALL BE AT THE PRE-CONSTRUCTION MEETING OR 30 DAYS IN ADVANCE ONCE CONSTRUCTION HAS BEGUN. LANE AND RAMP CLOSURES FOR 2 OR MORE WEEKS SHALL BE REPORTED 2 WEEKS IN ADVANCE OF CLOSURE. LANE AND RAMP CLOSURES OF LESS THAN 2 WEEKS DURATION AND MORE THAN 2 DAYS SHALL BE REPORTED AT LEAST 3 WORKING DAYS IN ADVANCE. FOR SHORT TERM LANE OR RAMP CLOSURES (2 DAYS OR LESS) NOTIFICATION SHALL BE MADE AT LEAST 1 WORKING DAY IN ADVANCE. INFORMATION SHALL INCLUDE BUT NOT BE LIMITED TO ALL CONSTRUCTION ACTIVITIES THAT IMPACT TRAFFIC AT PRESENT AND IN THE NEXT 30 DAYS. THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL WHO WILL BE RESPONSIBLE FOR PREPARING THIS REPORT AT THE PRE-CONSTRUCTION MEETING. ANY UNFORESEEN IMPACTS TO TRAFFIC SHALL BE REPORTED TO THE PROJECT ENGINEER AS SOON AS POSSIBLE. THE PROJECT ENGINEER SHALL PROVIDE THIS INFORMATION TO COTMP. ALL CONSTRUCTION ACTIVITIES THAT INTERFERE WITH TRAFFIC SHALL BE REPORTED TO COTMP. THIS INFORMATION SHALL BE PROVIDED TO COTMP AT

740-833-8323, OR BY FAX AT 740-833-8090.

BUTT JOINTS:

BUTT JOINTS SHALL BE PLACED AT BEGINNING AND END OF PROJECT, AT MILLING LIMITS AND BRIDGES NOT INTENDED TO BE PAVED OVER.

THE BUTT JOINTS SHALL INCLUDE SAWCUTTING THE PAVEMENT TO MAKE A CLEAN JOINT AND SEALING THE JOINT.

ITEM 202 GUARDRAIL REMOVED, AS PER PLANS

ITEM 202 ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN: ITEM 202 BRIDGE TERMINAL ASSEMBLY REMOVED, AS PER PLAN:

IN ADDITION TO THE REQUIREMENTS OF ITEM 202, REMOVAL OF SPECIFIED GUARDRAIL ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO ANY ATTACHED POSTS, SIGNS AND DELINEATORS (NOT OTHERWISE SPECIFIED). THIS REMOVAL WILL INCLUDE ALL POSTS, ANCHORS AND HARDWARE UNDER GROUND.

THE CONTRACTOR SHALL EXPECT TO REMOVE ALL CONCRETE FOUNDATIONS COMPLETELY AT ALL LOCATIONS UNLESS OTHERWISE INSTRUCTED OR APPROVED BY THE ENGINEER. REMOVING EXISTING CONCRETE FOUNDATION TO A MINIMUM OF 1 FOOT BELOW THE GRADE OF THE SURROUNDING AREA MAY ONLY BE PERMITTED IF THE EXISTING CONCRETE DOES NOT FALL WITHIN 6 FEET OF THE PROPOSED AS TO NOT COMPROMISE THE PERFORMANCE OF THE PROPOSED GUARDRAIL SYSTEM(S).

ALL HOLES AND VOIDS REMAINING AFTER REMOVAL OF GUARDRAIL POSTS AND FOUNDATIONS SHALL BE FILLED WITH GRANULAR MATERIAL CONFORMING TO CMS 203.02R. FILL MATERIAL CONTAINING SOD SHALL NOT BE USED. ALL FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER. MATERIAL PLACED IN HOLES SHALL BE THOROUGHLY COMPACTED AND LEVELED OFF AS DIRECTED BY THE ENGINEER. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPLICABLE GUARDRAIL REMOVAL ITEM.

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE THE EXISTING GUARDRAIL, PREPARE THE SITE, AND INSTALL NEW GUARDRAIL IN A CONTINUOUS OPERATION. GUARDRAIL DESIGNATED FOR REMOVAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF.

ITEM 203 - EMBANKMENT, AS PER PLAN:

QUANTITIES FOR ITEM 203 - EMBANKMENT HAVE BEEN PROVIDED THROUGHOUT THIS PLAN TO BUILD UP FORE-SLOPES AND ENSURE PROPER GRADING FOR THE PROPOSED ANCHOR ASSEMBLIES. THIS ITEM OF WORK INCLUDES ANY CLEARING AND GRUBBING NECESSARY TO PLACE THE EMBANKMENT AT THE LOCATIONS SPECIFIED OR DIRECTED. THE CONTRACTOR SHALL BE PREPARED TO USE EMBANKMENT AT THE LOCATIONS SPECIFIED IN THE PLANS AND ANY OTHER AREAS "AS DIRECTED BY THE ENGINEER".

ITEM 209 - LINEAR GRADING, AS PER PLAN:

CONTINGENCY QUANTITIES FOR ITEM 209 - LINEAR GRADING, AS PER PLAN, HAVE BEEN PROVIDED BELOW. THE PURPOSE OF THIS ITEM IS TO ENSURE PROPER GRADING FOR THE EARTH SHOULDERS. THE WIDTH SHALL BE AN AVERAGE OF 5'. THE CONTRACTOR SHALL BE PREPARED TO USE LINEAR GRADING AT THE LOCATIONS SPECIFIED "AS DIRECTED BY THE ENGINEER".

A QUANTITY OF 3.9 MILES OF ITEM 209 - LINEAR GRADING HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE "AS DIRECTED BY THE ENGINEER"

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE), 6", AS PER PLAN:

REPAIRS SHALL CONSIST OF REMOVING 6" OF PAVEMENT AND PLACING 6" OF ITEM 301 ASPHALT CONCRETE BASE, PG64-22. WORK SHALL BE PERFORMED ACCORDING TO SCD MT-101.90. WORK SHALL BE PERFORMED PRIOR TO RESURFACING.

SEE SHEET NO. 7 FOR DETAILS. SEE SHEETS 20 & 21 FOR QUANTITIES AND LOCATIONS

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE), 9", AS PER PLAN:

REPAIRS SHALL CONSIST OF REMOVING 9" OF PAVEMENT AND PLACING 9" OF ITEM 301 ASPHALT CONCRETE BASE, PG64-22 MIN. 2 LIFTS. WORK SHALL BE PERFORMED ACCORDING TO SCD MT-101.90. WORK SHALL BE PERFORMED PRIOR TO RESURFACING.

SEE SHEET NO. 7 FOR DETAILS.

SEE SHEETS 20 & 21 FOR QUANTITIES AND LOCATIONS ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE:

THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE CONTRACTORS EQUIPMENT THAT MAY RESULT FROM THE PLANING OPERATION, INCLUDING DAMAGE CAUSED BY CASTINGS AND LOOP DETECTORS. THE DEPTH OF PLANING CLOSE TO THE CASTINGS SHALL BE AS DIRECTED; TO ACHIEVE A SMOOTH

RIDING FINISHED PAVEMENT. GREAT CARE SHALL BE TAKEN TO PREVENET THE REMOVAL OF THE EXISTING PAVEMENT CROSS-SLOPE (CROWN) DURING THE PLANING OPERATIONS.

THE CONTRACTOR SHALL LIMIT THE PLANING OPERATION TO ONE LANE AT A TIME AS TO ENSURE THAT THE PROPOSED SURFACE AND INTERMEDIATE COURSE IS BUTTING UP TO EITHER PROPOSED OR EXISTING ASPHALT. BECAUSE OF THIS REQUIREMENT, THE CONTRACTOR WILL BE REQUIRED TO COMPLETE ONE DIRECTION UP TO THE SURFACE COURSE BEFORE PLANING AND COMPLETING THE ADJACENT LANE. THIS REQUIREMENT WILL WAIVE THE LAPPING OF THE BASE LONGITUDINAL JOINT ON SCD BP-3.1.

PLANED PAVEMENT SHALL NEVER BE EXPOSED TO TRAFFIC ON SR-309 AND THE CONTRACTOR SHALL PERFORM THE ASPHALT intermediate COURSE CONCURRENTLY AS TO NOT VIOLATE THE DROPOFF POLICY PER SCD MT-101.90. PLANED PAVEMENT SHALL BE PERMITTED FOR A MINIMUM OF 14 CONSECUTIVE DAYS ON SIDE ROADS, DRIVEWAYS, AND MAILBOX APPROACHES ONLY IF THE CONDITION DOES NOT VIOLATE THE DROPOFF POLICY PER SCD MT-101.90.

FAILURE TO MEET ANY OF THE ABOVE REQUIREMENTS WILL SUBJECT THE CONTRACTOR TO A DISINCENTIVE OF \$1000/DAY.

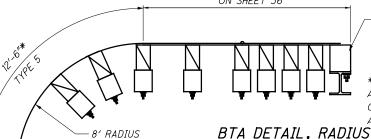
ITEM 606 - BRIDGE TERMINAL ASSEMBLY, TYPE 4. AS PER PLAN:

BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN SHALL BE CONSTRUCTED AS PER THE GUARDRAIL DETAILS (PLAN INSERT) ON SHEET 36. PAYMENT FOR THIS ITEM SHALL BE MADE AT THE UNIT PRICE BID OF EACH AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, AND ALL TYPE 5 GUARDRAIL COMPONENTS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL BRIDGE TERMINAL ASSEMBLY, TYPE 4.

ITEM 606 - BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN, RADIUS:

THIS ITEM SHALL INCLUDE THE COST OF ALL COMPONENTS INCLUDING TYPE 5 GUARDRAIL. POSTS AND OTHER HARDWARE. SEE SHEET 26 FOR LOCATION OF THIS WORK. RADII SHOWN ON THE SHEET.

12'-6" TYPE 5 SPACED AS PER BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN DETAIL ON SHEET 36



- STEEL POST AND BLOCKOUT AS BRIDGE TERMINAL ASSEMBLY. TYPE 4, AS PER PLAN DETAIL ON SHEET 36

* SPACED AS PER BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN DETAIL ON SHEET 36 EXCEPT WITH 8' RADIUS AS SHOWN

BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN, RADIUS DETAIL ON SHEET 36

ITEM 623 - MONUMENT ASSEMBLY, AS PER PLAN:

THIS WORK SHALL CONSIST OF PLACING CENTERLINE MONUMENTS AT THE LOCATIONS AS SHOWN BELOW:

CONLEY-THOMPSON ROAD (CO RD 63) - NORTHERN LEG CONLEY-THOMPSON ROAD (CO RD 63) - SOUTHERN LEG

THE PROPOSED MONUMENT SHALL BE EAST JORDAN IRON WORKS CATALOG #2965A, H & Z AND 2966Z OR APPROVED EQUAL. SEE SHEETS 8 - 11 FOR DETAILS.

A REGISTERED SURVEYOR FROM DISTRICT 6 SURVEY SHALL BE RESPONSIBLE FOR REFERENCING AND VERIFYING THE LOCATIONS OF THE PROPOSED CENTERLINE MONUMENTS. THE CONTRACTOR SHALL NOTIFY THE SURVEY SECTION AT (704) 833-8250 - 48 HOURS PRIOR TO START OF MONUMENT WORK.

PAYMENT FOR THIS ITEM SHALL INCLUDE ALL NECESSARY LABOR, MISCELLANEOUS HARDWARE, AND EQUIPMENT REQUIRED FOR PLACEMENT. PAYMENT WILL BE AT CONTRACT BID PRICE PER EACH.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED: ITEM 623 -MONUMENT ASSEMBLY, AS PER PLAN = 2 EACH

ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE:

THERE ARE MONUMENT BOXES LOCATED AT THE FOLLOWING LOCATIONS:

- A. ROBINSON ROAD (TWP RD 19)
- B. SR 37
- C. DRY LANE RD (CO RD 30)
- D. DECLIFF RD (TWP RD 29)
- E. OSBUM RD (CO RD 30)
- F. CRAMER RD (CO RD 64)
- G. BUMFORD RD (TWP RD 62) H. LEE RD (CO RD 87)
- I. SR 203
- J. WATERWORKS RD (CO RD 96)

A CONTINGENCY QUANTITY OF 4 MONUMENTS TO BE ADJUSTED TO GRADE HAS BEEN ADDED TO THE PLANS.

IF DURING THE RAISING OF THE BOXES TO THE NEW GRADE, THE BOX IS DAMAGED AND NEEDS TO BE REPLACED, THE PROPOSED MONUMENT SHALL BE EAST JORDAN IRON WORKS CATALOG #2965A. H & Z AND 2966Z OR APPROVED EQUAL.

THE SAME REQUIREMENTS AS ITEM 623 - MONUMENT ASSEMBLY. AS PER PLAN SHALL BE USED FOR THE REPLACEMENT MONUMENT BOXES.

PAYMENT FOR THIS ITEM SHALL INCLUDE ALL NECESSARY LABOR, MISCELLANEOUS HARDWARE, AND EQUIPMENT REQUIRED. PAYMENT WILL BE AT CONTRACT BID PRICE

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED: ITEM 623 -MONUMENT BOX ADJUSTED TO GRADE = 4 EACH

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E (NCHRP 350 OR MASH 2016), AS PER PLAN:

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

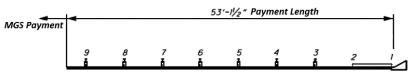
WHEN THE FACE OF THE ADJACENT (ATTACHED) GUARDRAIL IS LESS THAN 4' OFFSET FROM THE PROPOSED EDGE LINE, THE PROPOSED TYPE E ANCHOR ASSEMBLY SHALL BE INSTALLED USING A 25:1 FLARE RATE (24" OFFSET DESIGN) AS DETAILED IN THE SHOP DRAWINGS AND AS DIRECTED BY THE ENGINEER.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND

THE PAYMENT LIMIT (LENGTH) FOR THE PROPOSED ANCHOR ASSEMBLY, MGS TYPE E, (NCHRP 350 OR MASH 2016), AS PER PLAN, SHALL BE 53'- 1 1/2" (TO THE STANDARD MGS CONNECTION) AS DETAILED BELOW.



PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, AS PER PLAN, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM. INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURE.

ITEM 606 - CURVED RAIL ELEMENTS:

ALL RADII OF CURVED RAIL ARE ESTIMATED AND ACTUAL RADII OF PROPOSED RAIL SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING. LENGTH OF CURVED RAIL ELEMENTS, WHERE CALLED FOR IN A RUN, SHALL BE INCLUDED IN THE TOTAL LENGTH OF RUN SHOWN IN THE GUARDRAIL COLUMN AND THE CURVED RAIL ELEMENT TOTAL ARE INCLUDED WITH THE GUARDRAIL TOTALS ON THE GENERAL SUMMARY SHEET.

ITEM 606 - GUARDRAIL, MISC.: ALTERNATIVE GUARDRAIL PLACEMENT:

THIS ITEM SHALL BE USED WHEN THE CONTRACTOR IS REQUIRED TO USE AN ALTERNATE METHOD TO SET POSTS TO PREVENT DAMAGE TO AN UNDERGROUND OBSTACLE, SUCH AS A UTILITY. THE USE OF THIS ITEM WILL BE AS DEEMED NECESSARY BY THE ENGINEER. THIS ITEM SHALL INCLUDE ALL LABOR, EQUIPMENT. AND MATERIAL NEEDED TO SET AND BACKFILL POSTS WHILE MEETING THE REQUIREMENTS OF THE APPLICABLE GUARDRAIL ITEM BEING PERFORMED. APPLICABLE GUARDRAIL ITEMS INCLUDE BUT ARE NOT LIMITED TO SETTING POSTS (AND SLEEVES) FOR TYPE 5, TYPE MGS, BARRIER DESIGN, ANCHOR ASSEMBLIES, AND BRIDGE TERMINAL ASSEMBLIES. PAYMENT SHALL BE AT THE UNIT BID PRICE OF EACH AND SHALL BE PAID FOR IN ADDITION TO THE APPLICABLE GUARDRAIL PLACEMENT ITEM LISTED ABOVE.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED: ITEM 606 - GUARDRAIL, MISC.: ALTERNATIVE GUARDRAIL PLACEMENT = 50 FT TTCH 617 WATED

ITEM 617 - WATER:

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LOCATION	COUNTY	ROUTE	QUANTITY	UNIT
1	MAR	309	5	MGAL
		TOTAL	5	MGAL

THE FOLLOWING QUANTITY HAS BEEN PROVIDED AND THE TOTAL HAS BEEN CARRIED TO THE GENERAL SUMMARY. ITEM 617 - WATER: = 5 MGA/

THIS ITEM SHALL BE USED AS DIRECTED BY THE ENGINEER.

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN: THIS ITEM SHALL CONSIST OF STATIONING USING 3 FT LATH STAKES. THE STAKES SHALL BE SPACED AT 200 FT INTERVALS AND SHALL EXTEND THROUGHOUT THE LENGTH OF THE PROJECT AND THROUGHOUT THE LENGTH OF ALL RAMPS. PLACEMENT OF THE STAKES SHALL BE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DAMAGED OR MISSING

CONSTRUCTION LAYOUT STAKES, AS PER PLAN WILL BE PAID FOR AT THE CONTRACT LUMP SUM BID, WHICH SHALL BE FULL COMPENSATION FOR ALL SERVICES, MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS, INCLUDING THE REMOVAL, NECESSARY TO COMPLETE THIS ITEM.

THIS ITEM SHALL ALSO BE USED TO ESTABLISH THE EXISTING RIGHT OF WAY TO VERIFY THAT ALL NEW WORK (OUTSIDE OF THE ROADWAY) IS CONTAINED WITHIN

THE-EXISTING BIGHT-OE-WAY LIMITS.

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG64-22:

JOINT CORING IN ACCORDANCE WITH 446.06 IS NOT REQUIRED FOR COLD LONGITUDINAL JOINTS PLACED OVER VOID REDUCING ASPHALT MEMBRANE (VRAM). CONSTRUCT COLD LONGITUDINAL JOINTS OVER VRAM USING THE SAME TECHNIQUES, EQUIPMENT, AND ROLLER PATTERNS USED ON THE REST OF THE MAT. OBTAIN 10 MAT CORES FOR EACH LOT OF MATERIAL IN ACCORDANCE WITH 446.04. PAY FACTORS FOR EACH LOT OF MATERIAL WILL BE DETERMINED ACCORDING TO TABLE 446.04-2.

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-+													EROSION CONTROL	 '	=
															1 '
						1,288	1,288		659	00300	1,288	CY	TOPSOIL] .
						11,619.8	11,619.8		659	10000	11,619.8	SY	SEEDING AND MULCHING		↓ '
-						581	581		659	14000	581	SY	REPAIR SEEDING AND MULCHING		! !
-						581 1.57	581 1.57	<u> </u>	659 659	15000 20000	581 1.57	SY TON	INTER-SEEDING COMMERCIAL FERTILIZER		1
						1.01	1.51		000	20000	1.01	TON	COMMERCIAL FERRILIZER	 	} ;
						2.4	2.4		659	31000	2.4	ACRE	LIME		1 7
						63	63		659	35000	63	MGAL	WATER		1 `
							2,000		832	30000	2,000	EACH	EROSION CONTROL	'	
													DAVENTALT		1
-+	_				$\downarrow \sim$	$+ \sim$		$\downarrow \sim$					PAVEMENT		⅄
		22,373		, ,	1 ' '	+, , , -	22,373	 	251	01041	22,373	SY	PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE), AS PER PLAN, 6"	12	1)
		905					905		251	01041	905		PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE), AS PER PLAN, 9"	12	1)
					8,953		8,953		254	01000	8,953		PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"		17
					2,450	1	2,450		254	01000	2,450		PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	<u> </u>	K
	\rightarrow			226,588			220,845	5,743	254	01000	226,588	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3"		K
	-			32,376	969		32,298	1,047	407	20000	33,345	GAL	NON-TRACKING TACK COAT	 	ル
				8,188	310		8,237	261	441	10101	8,498	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN , PG64-22	13	1)
				11,016			10,651	365	441	10200	11,016	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446)		1
	اح				103		103		442	10000	103		ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	<u> </u>	ハ
	-4		\mathcal{V}	<u> </u>		$\psi \omega$					1 1 7 96 X		KOMPACTED AGGREGATE. AS DER DIAMANA AND AND AND AND AND AND AND AND AND		Ł
; 				\sim			0000	- ^E	-617-	25000	5	MCAL	WATER		1
				13.55	} 	+	12.82	0.73	618	43000	13.55		WATER RUMBLE STRIPES CENTER LINE (ASPHALT KONDRETK)		┺
													LONGITURNAL JOHN TREPARATION TO THE PARATION T		1
															1
													TRAFFIC CONTROL	<u> </u>	-
							1.118 1.057	61	621	00100	1,118	EACH	RPM		4
					\leftarrow	$\downarrow \sim$		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	62Y	\$4080			TRAISEN PAYEMENT MARMER REMOVEDY	-	ł
			179	, , ,	 	 	179	, ,,	626	00110	179	EACH	BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL)		1
8						ححلا			V30V	22102	كالعالم		GBOUND MOINTER SUPPORT NO LE POSTA LICENTA DE LA COMPANION DE	-	1
4							14		630	80100	14	SF	SIGN, FLAT SHEET		1 '
						1	70.01	1			70.6			<u> </u>	1
-+	-					1	30.94 29.16	1.78 0.89	642	00104	30.94		EDGE LINE, 6", TYPE 1	 	1
	+					1	15.47 14.58 540 540	0.89	642 644	00300	15.47 540	MILE FT	CENTER LINE, TYPE 1 CHANNELIZING LINE, 8"	 	∤ ¦
						1	216 216		644	00500	216		STOP LINE	 	1
						<u> </u>	8 8		644	01300	8	EACH	LANE ARROW		1
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						1							STRUCTURE REPAIR QUANTITIES, SEE SHEET NO. 63	<u> </u>	1/_1
-+						1		1						 	1/2
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2-14	16-17	21	22	23	24	40	01/STR/PV	02/S<2/PV		EXT	TOTAL	1 de 1	PESCRIPTION TO THE STRUCTURE	SEE SHEE ⁻ NO.	CALC
		<u> </u>											MISCELLANEOUS STRUCTURE		-
		>	524.5				524.5		517	75500	524.5	FT	BRIDGE RAILING REBUILT		1
									ىىد	$\overline{\mathcal{L}}$	ىب		MAINTENANCE OF TRAFFIC		
													MAINTENANCE OF TRAFFIC		_
	60					 	60		614	11110	60	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		\dashv
	99						99		614	12461	99	EACH	WORK ZONE MARKING SIGN, AS PER PLAN	16	\dashv
	30.94						29.16	1.78	614	21550	30.94	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT		
	1,080						1,080		614	23680	1,080	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT		
	432						432		614	26610	432	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT		_
													INCIDENTALS		_
						 							THOTOGRAPH		\dashv
							LS		614	11000	LS		MAINTAINING TRAFFIC		
LS							LS		623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	13	
							LS		624	10000	LS		MOBILIZATION		
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SHEET NUMBER	REF. NO.	LOCATION	COUNTY	ROUTE	GENERAL SLM	SIDE	GUARDRAIL REMOVED, AS PER PLAN	ANCHOR ASSEMBLY REMOVED, 立 TYPE A, AS PER PLAN	BRIDGE TERMINAL ASSEMBLY 유무 REMOVED, AS PER PLAN	E EMBANKMENT, AS PER PLAN	OOITA CRADING	BRIDGE RAILING REBUILT, AS PER PLAN	그 GUARDRAIL, TYPE MGS	GUARDRAIL, TYPE MGS, WITH LONG POSTS	GUARDRAIL, TYPE MGS, 25'	ANCHOR ASSEMBLY, MGS TYPE A	ANCHOR ASSEMBLY, MGS TYPE E,	ANCHOR ASSEMBLY, MGS TYPE T	BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN	BRIDGE TERMINAL ASSEWBLY, TYPE 4, AS PER PLAN, RADIUS	BARRIER REFLECTORS, TYPE 2, BI-DIRECTIONAL	REMARKS	CALCULAT MAK MAK
~~				00.700	. 75	1												271011					1
25 <u>.</u> 25	GR-1 GR-2	1	MARION MARION	SR 309 SR 309	1.35 1.34	R	112.50 137.50	1 1	1	49.80 63.80	1.7 1.6		75.00				1 1		1 1		4		-
25	GR-3	1	MARION	SR 309	1.38	L	100.00	1	1	50.33	2.0		62.50				1		1		4		1
25 . 26	∠ GR-4 GR-5	1 1	MARION MARION	SR 309 SR 309	1.38 3.23	R	150.00	1 1	1	64.70 42.60	2.1		112.50 37.50				1 1		1		4		1
26	7 GR-6	1	MARION	SR 309	3 . 23	R	12.50	1	1	49.20	1.6		75.00				1		1		4		<u>X</u>
26 ·	√ GR-7 GR-8	1 1	MARION MARION	SR 309 SR 309	3.27 3.27	L R	12.50	1	1	34.70 30.80	1.2		75.00 12.50				1	1	1 1		4		│
27) GR-9	1	MARION	SR 309	4.25	L	65.00	1	1	42.80	1.2		25.00				1		1		4		■ ■ D
27 ·	GR-10 GR-11	1	MARION MARION	SR 309 SR 309	4.24 4.38	R	62.50 65.00	1	1	51.20 41.50	1.6 1.2		75.00 25.00				1 1		1		4		₹
27	FR-12	1	MARION	SR 309	4.27	R	62.50	1	1	39.40	1.3		37.50				1		1		4		ไ
28 28	GR-13 GR-14	1	MARION MARION	SR 309 SR 309	5.04 5.05	L R	25.00 40.00	1	1	36.50	1.0		62.50 25.00			1 1				1	3		<u> </u>
28	FR-15	1	MARION	SR 309	5.04	L	578.00	ı	1	26.40 239.20	7.4		25.00	662.50		1	1	1		1	5		SU
28	GR-16	1	MARION	SR 309	5.05	R	125.00	1	1	62.00	2.0	470.00	75.00				1	1			4		┨ .
29 ·	√ GR-17 ∫ GR-18	1 1	MARION MARION	SR 309 SR 309	5.72 5.73	R	18.75 56.25	1	1	48.60 36.00	1.6	130.00	62.50 37.50						1		6		▍▐
29	7 ⊊R-19	1	MARION	SR 309	5.77	L	50.00	1	1	39.60	1.3		37.50						1		3		RA
29 30	GR-20 GR-21	1	MARION MARION	SR 309 SR 309	5.78 8.65	R	25.00 50.00	1 1	1	40.20 33.70	1.3		37.50 50.00				1		1		3		ן ה
30	R-22	1	MARION	SR 309	8.64	R	50.00	1	1	44.90	1.7		75.00				1		1		3		œ
30	GR-23	1	MARION MARION	SR 309	8.68	L R	262.50	1	1	100.30	3.7 1.6		275.00				1 1		1 1		6 3		A A
30 . 31	G R-24 G R-25	1	MARION	SR 309 SR 309	8.68 9.39	L	62.50 56.25	1	1	49.40 27.60	1.4	6.25	87.50 50.00				1		1		4		่ ธ
31	S R-26	1	MARION	SR 309	9.38	R	43.75	1	1	39.20	1.9	6.25	100.00				1		1		4		-
31 ·	√ CR-27 √ SR-28	1	MARION MARION	SR 309 SR 309	9.41 9.41	R	43.75 43.75	1	1	44.50 29.20	2.0		100.00				1 1		1		4		-
32	3 R−29	1	MARION	SR 309	9.56	L		1	1	29.00	1.4		50.00				1		1		7]
32 32	GR-30 GR-31	1	MARION MARION	SR 309 SR 309	9.56 9.60	R		1	1	38.90 38.40	1.9		100.00				1		1 1		7 5		-
32	R-32	1	MARION	SR 309	9.60	R		1	1	26.00	1.4		50.00				1		1		4		_
33 33	G R−33 G R−34	1	MARION MARION	SR 309 SR 309	10.88 10.88	L R	25.00 25.00	1		50.50	1.5		50.00 75.00						1		7		-
33	3 R-35	1	MARION	SR 309	10.88	L	25.00	1		59.20	1.7		75.00						1		4		-
33	7R-36	1	MARION	SR 309	10.91	R	25.00	1	4	36.50	1.3	100.00	37.50						1		3		-
34 ·	√ CR-37 √ SR-38	1 1	MARION MARION	SR 309 SR 309	13.11 13.13	R	200.00 68.75	1	1	61.90 40.60	2.7	126.00	175.00 87.50				1 1		1		8 7		-
34	T R-39	1	MARION	SR 309	13.19	L		1	1	20.30	1.0		62.50					1	1		4]
34 入 入	SR-40	1	MARION	SR 309	13.18	R		1	1	29.30	1.3		37.50				1		1		4		
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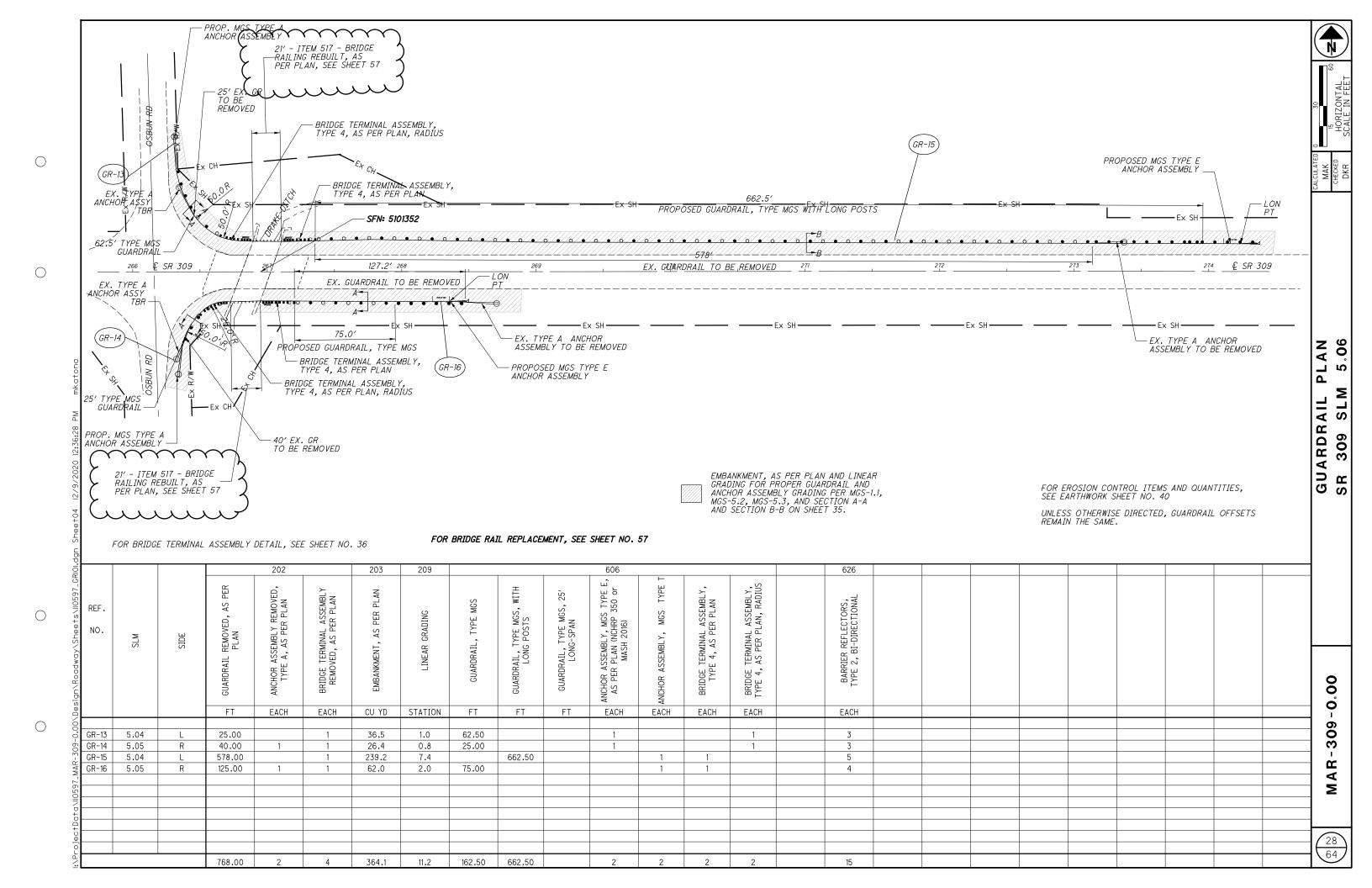
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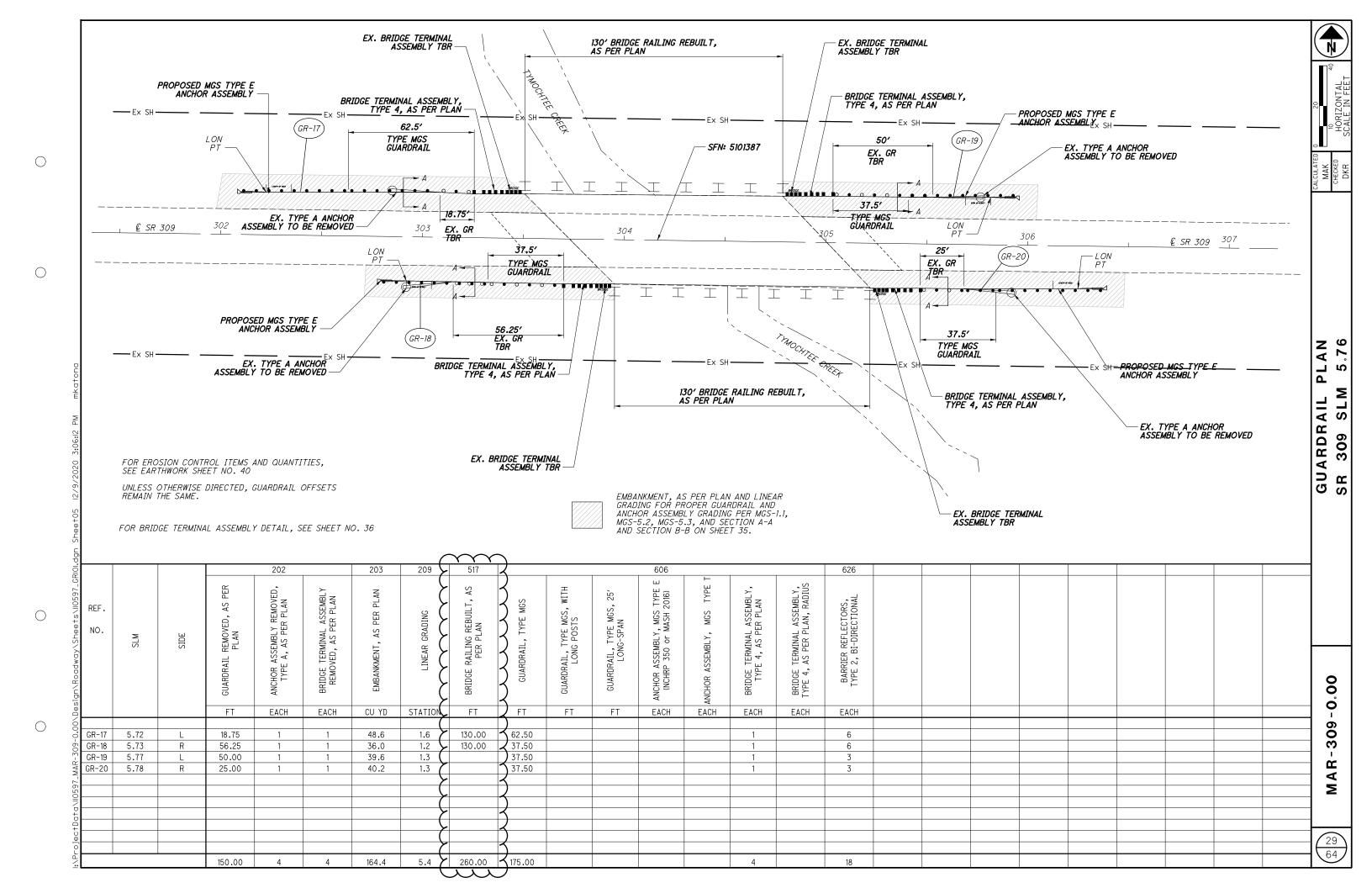
LOCA	TION			DESIGN				\sim		QUANTITIES			~~~		REMARKS.
C R B	E	L	L L	T		209	254	407	4	41)	442	617	618	874	
O	N D S L M	E N G T H	E N G T H	P AVG. PAVEMENT WIDTH I C A L	TOTAL PAV. AREA	PREPARING SUBGRADE FOR SHOULDER PAVING	PAVEMENT PLANING, ASPHALT CONCRETE 3"	NON-TRACKING TACK COAT	1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22).75" ASPHALT CONCRETE INTERMEDIATE OURSE, TYPE 2 (446)	1.50" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	COMPACTED AGGREGATE, AG PER PLAN (1' WIDE X 3" DEER)	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	LONGITUDINAL JOINT PREPARATION	
		MI	FT	A B C D E FT FT FT FT FT		MILE	SQ YD (GAL	CU YD	CU YD	CU YD	CU YD	MILE	MILE	
MAR 309 0.00	1.00	1.00 5	5,280	1 1.5 22.0 1.5	14,667	2.00	14,667	2,053	509	713		98	1.00	1.00	START AT INTERSECTION PAVEMENT BREAK
MAR 309 1.00	1.38		2,006	1 1.5 22.0 1.5	5,573	0.76	5,573	780	194	271		38	0.38	0.38	
MAR 309 1.38 MAR 309 1.39	1.39 2.00	0.61 3	3,221	1 1.5 22.0 1.5	8,947	1.22	8,947	1,253	311	435		60	0.61	0.61	BRIDGE OVER HOLLAND RUN
MAR 309 2.00	2.04	0.04	211	1 1.5 22.0 1.5	587	0.08	587	82	20	29		4	0.04	0.04	
MAR 309 2.04 MAR 309 3.00			5,069 1,373	1 1.5 22.0 1.5 1 1.5 22.0 1.5	14,080 3,813	1.92 0.52	14,080 3,813	1,971 534	489 132	684		94	0.96	0.96 0.26	
MAR 309 3.26			158	1 1.5 22.0 1.5	3,013	0.52	3,013	334	132	\ 		2 (0.03	0.03	BRIDGE OVER ENOCH DITCH
MAR 309 3.29			3,749	1 1.5 22.0 1.5	10,413	1.42	10,413	1,458	362	506		70	0.71	0.71	
MAR 309 4.00 MAR 309 4.27	4.27 4.28	0.27 1	1,426	1 1.5 22.0 1.5	3,960	0.54	3,960 }	554	138	193		26	0.27	0.27	BRIDGE OVER BROWN RUN
MAR 309 4.28	5.00		3,802	1 1.5 22.0 1.5	10,560	1.44	10,560	1,478	367	513		70	0.72	0.72	The state of the s
MAR 309 5.00			264	1 1.5 22.0 1.5	733	0.10	733	103	25 362	36		4 70	0.05	0.05	ENID 618 @ 5 74
MAR 309 5.05 MAR 309 5.76	5.76 5.78	0.71 3	3,749	1 1.5 22.0 1.5	10,413	1.42	10,413	1,458	362	506		70	0.69	0.71	END 618 @ 5.74 BRIDGE OVER DRAKE DITCH
MAR 309 5.78	6.00		1,162	1 1.5 22.0 1.5	3,227	0.44	3,227	452	112	157		22	1	0.22	
MAR 309 6.00 MAR 309 7.00			5,280 5,280	1 1.5 22.0 1.5 1 1.5 22.0 1.5	14,667 14,667	2.00	14,667 14,667	2,053 2,053	509 509	\ 713 713		98	1.00	1.00 1.00	PAVE OVER BRIDGE @ 6.16 RESUME 618 @ 6.16
MAR 309 8.00			3,538	1 1.5 22.0 1.5	9,827	1.34	9,827	1,376	341	478		66	0.67	0.67	
MAR 309 8.67	8.69	0.71 1	1.077	1 15 22 0 15	4.547	0.00	4.547	677	150	\ 		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.71	0.71	BRIDGE OVER TYMOTCHTEE CREEK
MAR 309 8.69 MAR 309 9.00			1,637 3,115	1 1.5 22.0 1.5 1 1.5 22.0 1.5	4,547 8,653	0.62	4,547 (8,653 (637 1,211	158 300	221		30	0.31 0.59	0.31 0.59	PAVE OVER BRIDGE @ 9.42
MAR 309 9.59	9.61						· >	-		7		>	•		BRIDGE OVER TYMOTCHTEE CREEK
MAR 309 9.61 MAR 309 10.00			2,059 4,805	1 1.5 22.0 1.5 1 1.5 22.0 1.5	5,720 13,347	0.78	5,720 (13,347 (801 1,869	199 463	278		38	0.39	0.39 0.91	
MAR 309 10.91	10.92	0.51	7,000	7 1.5 22.0 1.5	13,341	1.02	13,341	7,000	705	$\frac{1}{2}$		† °° }	• 0.57	0.01	BRIDGE OVER BELL-HARRAMAN DITCH
MAR 309 10.920			422	1 1.5 22.0 1.5	1,173	0.16	1,173	164	41	57		8	0.08	0.08	
MAR 309 11.000 MAR 309 12.000			5 , 280 3 , 802	1 1.5 22.0 1.5 1 1.5 23.0 1.5	14,667	2.00	14,667 (10,982)	2,053 - 1,537	509 381	713 534		98	0.30	1.00 0.72	END 618 @ SLM 11.30 RESUME @ 12.45 PAVEMENT WIDENS TO 26' PAVE OVER BRIDGE @12.47
MAR 309 12.720	12.730		53	1 10.0 23.0 10.0	252	0.02	252	35	9	12		>	0.01	0.01	WIDER PAVEMENT @ BRIDGE
MAR 309 12.730 MAR 309 12.740	12.740 12.750	0.01	53	1 10.0 23.0 10.0	252	0.02	252	35	9) 12		 	0.01	0.01	BRIDGE OVER LYDDANE DITCH WIDER PAVEMENT @ BRIDGE
MAR 309 12.750				1 1.5 22.0 1.5	3,667	0.50	3,667	513	127	178		24	0.25	0.25	MIDEN FAVEMENT & DAIDGE
MAR 309 13.000		0.17	898	1 1.5 22.0 1.5	2,493	0.34	2,493	349	87) 121		16	0.17	0.17	AND
MAR 309 13.170 MAR 309 13.200	13.200 13.860	0.66 3	3,485	1 1.5 22.0 1.5	9,680	1.32	9,680	1,355	336) 471		64	0.66	0.66	BRIDGE OVER LITTLE SCIOTO RIVER DO NOT PAVE WIDENED AREA ON RIGHT 13.61
MAR 309 13.860	14.000	0.14	739	1 2.0 36.0 2.0	3,285	0.28	3,285	460	114) 160		14	0.14	0.14	AVERAGE WIDTH = 40' (EXTRA CL)
MAR 309 14.000			1,162	1 2.0 36.0 2.0	5,163	0.44	5,163	723	179	251		22	0.22	0.22	AVERAGE WIDTH = 40' (EXTRA CL)
MAR 309 14.22 MAR 309 15.00			4,118 1,214	1 1.5 22.0 1.5 1 1.5 22.0 1.5	11,440 3,373	1.56 0.46	11,440) 3,373 (1,602 472	397 117	556		76	0.78	0.78 0.23	END 618 @ SLM 15.23
MAR 309 15.23			634	1 1.5 22.0 1.5	1,760	0.24	1,760	246	61	86		12	•	0.12	END PROJECT
								1				(
								656	321	$\stackrel{\leftarrow}{}$					SAFETY EDGE .
										NO RIMRIE CTOTO	 ES ACROSS BRIDGES	<u> </u>			
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				TOTALS CARRIED TO GE	NERAL SUMMARY	30.38	226,588	32,376	8,188) 11,016		1,486	13.55	<i>15.22</i>	

	LO	CATION				DESIGN			\sim	\sim	\sim	QUANTITIES	·		~~~		REMARKS	CULATED
C	B E G S L	E N D S L	L E N G T H	L E N G T H	I C A L		TOTAL PAV. AREA	PREPARING SUBGRADE FOR SHOULDER	PAVEMENT PLANING, ASPHALT	254 PAVEMENT PLANING, ASPHALT	PAVEMENT PLANING, ASPHALT CONCRETE 1.25"	NON-TRACKING TACK COAT		1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE (2 (446)	1.50" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	COMPACTED AGGREGATE, AS PER PLAN I' WIDE X 2" DEEP)		CALCL
			MI	FT		B C D E F FT FT FT FT FT	SY	MILE	SQ YD	SQ YD	SQ YD	GAL	CU YD	CU YD	CU YD	CU YD		
MAR C19				20			83	(,		83	7	3	(,	}	ROBINSON ROAD - RT.	-
MAR 37				250			950	\ \ \		950		81)	\ \ \ \ \	40)	SR 37 - LT	4
MAR 37 MAR T28			1	250 20			900 100	\		900	100	77 9) 3	 	38)	SR 37 - RT DRY LANE - LT	-
MAR T28	3.05			20			75	(,		75	6	3)	DRY LANE - RT	
MAR C29				20			95	(•		95	8	3 3	(<u> </u>	DECLIFFE - LT	4
MAR C29				20 20			85 190				85 190	16	3 7	 			DECLIFF - RT OSBUN ROAD - LT	\dashv
MAR T30		5.06		20			150				150	13	$\frac{7}{5}$	(\prec	OSBUN ROAD - RT	\exists
MAR C213				22			305	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			305	26	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			\prec	MAIN STREET - RT	
MAR C213 MAR T31			-	20 20	$\vdash\vdash$		115 140	 	•		115 140	10 12	$\frac{4}{5}$	 	1	\forall	MAIN STREET - RT AGOSTA-MEEKER ROAD - LT	
MAR T31			1	20			100	$\mid \rangle$	+		100	9	3	\mapsto	•	マー マ	AGOSTA-MEEKER ROAD - LT AGOSTA-MEEKER ROAD - LT	\dashv
MAR C66A	4 6.56			20	1		200	 			200	17	7	 	-	7	KENTON-GALION ROAD - LT	
MAR C25			-	20			170	\longmapsto	·		170	14	6 5	\longmapsto	·) —	MEEKER-UPPER SANDUSKY ROAD - LT FRAME ROAD - RT	_
MAR T64A MAR T64A			1	20 20			140 170	 	•		140 170	12 14	$\frac{5}{6}$	+ >)	FRAME ROAD - RT	
MAR T65				20			80	\ \ \ \ \			80	7	3	\ \ \ \ \ \ \ \)	CRAMER ROAD - RT	
MAR T63				20			80	<u> </u>			80	7	3	<u> </u>)	CONLEY-THOMPSON ROAD - LT	
MAR C88				20 20			110 55	(110 55	9 5	4 2	- (``	CONLEY-THOMPSON ROAD - RT PLEASANT HILL ROAD - LT	_
MAR C33				20			85	(85	7	$\frac{2}{3}$	(\	WILDCAT ROAD - RT	
MAR T62				20			80				80	7	3			ζ	BUMFORD ROAD - LT	
MAR T62	_		-	20			85	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1		85	7	$\frac{3}{2}$	 		-	BUMFORD ROAD - RT	_
MAR C83				20 30			65 105	\vdash	•		65 105	6 9	2 4	+	•	\prec	LEE ROAD - LT PROSPECT-UPPER SANDUSKY ROAD N - LT	_
MAR C203R				75			380	 			380	32	13	 	•	7	PROSPECT-UPPER SANDUSKY ROAD N - RT	
MAR TRON				20			80	>			80	7	3	\ \ \ \ \ \	-)	TRON ROAD - LT	
MAR C95				20 20			155 120	\longrightarrow	-		155 120	13 10	5 4	\longrightarrow	-)	HOLLAND ROAD - LT HOLLAND ROAD - RT	_
MAR C162				20			240	 		240	120	20) ⁷	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	10)	MARION-WILLIAMSPORT ROAD - PAVE TO STOP LINE - N	_
MAR C162	14.04						360	(360		31)		15)	MARION-WILLIAMSPORT ROAD - PAVE TO STOP LINE - S	
MAR 796				35			100	(100	9	3 3	 	-	1	WATERWORKS ROAD - RT	
MAR C175 MAR T1042				20 25			100 115	 			100 115	9	3 4	 		Υ	CITS - LT COTTAGE STREET - LT	_
MAR C94				20			125				125	11	4	(\prec	FOUNTAIN STREET - LT	
MAR C95				35			210	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			210	18	7	1		〈	HOLLAND ROAD - LT	
MAR C95	15.31			5			60		•		60	5	$\int \frac{2}{\sqrt{2}}$	\	•)	HOLLAND ROAD - RT	_
								\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					}	}		}		_
OUS DRIVEWA	AYS / MAILBO.	X APP.				\perp	41,800	(4,645	395	161			310	DRIVES AND MAILBOX APPROACHES	_
			+									1	 	 		 	1	
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		1	1	1	<u> </u>	OTALS CARRIED TO GENERAL S	SIMMARY	(2,450	8,953	969	310	 	103	310		\exists
					,,,	FIRE OFFICE TO BENEFINE 3	- SIMINALI I	1 (]	,			1-1	(

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			SH	IEET N	UM.			Р	PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET	
	55	56	57	58	59	60	61 6	62 03.	3/STR/BR	IIEW	EXT	TOTAL	UNIT	DESCRIPTION	NO.	
														STRUCTURE REPAIR MAR-309-0138 (5101263)		↲
									46	517	75501	46	FT	BRIDGE RAILING REBUILT, AS PER PLAN	52	4
									24	519	12300	24	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	٦,
									6	626	00110	6	EACH	BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL)	\succ	┪
									40	846	00110	40	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	Я	7
														CTDUOTUDE DEDATO MAD 700 0700 (5404000)		4
														STRUCTURE REPAIR MAR-309-0326 (5101298)		Ⅎ
	125								125	517	75501	125	FT	BRIDGE RAILING REBUILT, AS PER PLAN	52	╛
	6								6	626	00110	6	EACH	BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL)	\bigcup	\dashv
	20								20	846	00110	20	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	\Box	\dashv
														STRUCTURE REPAIR MAR-309-0427 (5101328)		
		40							10	543	75504	40	F.T.			_
_		42							42 6	517 626	75501 00110	42	FT EACH	BRIDGE RAILING REBUILT, AS PER PLAN BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL)	52	-
		22						+	22	846	00110	22	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	\succ	-
															>	
\perp					1									STRUCTURE REPAIR MAR-309-0506 (5101352)	\succ	_'
-+			41						41	517	75501	41	FT	BRIDGE RAILING REBUILT, AS PER PLAN	52	_
			6						6	626	00110	6	EACH	BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL)		_
			22						22	846	00110	22	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM		_
					1	-	 							STRUCTURE REPAIR MAR-309-0867 (5101468)		
_				431 29					431 29	254 407	01000 20000	431 29	SY GAL	PAVEMENT PLANING, ASPHALT CONCRETE 3.0" NON-TRACKING TACK COAT	\Box	_
				160					160	407	30000	160	FT	SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS	\cap	-
				15.1					15.1	441	10000	15.1	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22 1.25"		-
				21					21	441	10200	21	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446) 1.75"		
				94					94	517	75501	94	FT	BRIDGE RAILING REBUILT, AS PER PLAN	52	
				6	1				6	626	00110	6	EACH	BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL)	\Box	_
														STRUCTURE REPAIR MAR-309-0942 (5101484)		
										25.						
					50				50	254	01000	50	SY	PAVEMENT PLANING, ASPHALT CONCRETE 3.0"	(-
					48				48	407 409	20000 30000	48	GAL FT	NON-TRACKING TACK COAT SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS	۸	-
					1.7				1.7	441	10000	1.7		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22	\succ	-
					2.4				2.4	441	10200	2.4	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446)	\forall	
					12.5				12.5	517	75501	12.5	FT	BRIDGE RAILING REBUILT, AS PER PLAN	52	
					6				6	626	00110	6	EACH	BARRIER REFLECTOR, TYPE 2 BI-DIRECTIONAL		_
														STRUCTURE REPAIR MAR-309-0959 (5101514)		_
						317			317	254	01000	317	SY	PAVEMENT PLANING, ASPHALT CONCRETE 3.0"	(_
						19			19	407	20000	19	GAL	NON-TRACKING TACK COAT	۲	_
				-	1	128 11			128 11	409 441	30000 10000	128	FT CY	SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22 1.25"	\succ	_
-+					1	15.3	 		15.3	441	10200	15.3	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446) 1.75"	\forall	_
						78			78	517	75501	78	FT	BRIDGE RAILING REBUILT, AS PER PLAN	52	_
						6			6	626	00110	6	EACH	BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL)		
+					1	-								STRUCTURE REPAIR MAR-309-1091 (5101530)	\bigcirc	_
+					1				+					STREET ONE THE RATE WAIT 500 TOST COTOROGO		_
							9		9	203	20000	9	CY	EMBANKMENT		
					-		833		833	254	01001	833	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN O" -3" VARIABLE	52	_
-+					1		365 100		365 100	407 409	20000 30000	365 100	GAL FT	NON-TRACKING TACK COAT SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS	\succ	\dashv
-+							11.3		11.3	441	10000	11.3	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22 1.25"	Я	\exists
							15.9		15.9	441	10200	15.9	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446) 1.75"		\dashv
							35		35	517	75501	35	FT	BRIDGE RAILING REBUILT, AS PER PLAN	52	
			<u> </u>		 		12		12	519	12300	12	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	(, ,)	_
-+					+	-	6 9		6 9	626 659	00110	6 9	EACH CY	BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL) TOPSOIL	ψv	4
					1		112		112	659	10000	112	SY	SEEDING AND MULCHING		\dashv
J					1	I					20000	0.02	TON			\dashv
							0.02		0.02	659 659	35000	0.02	TON	COMMERCIAL FERTILIZER		

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			SF	IEET NU	JM.				PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE	CALCULATED MAK
54	55	56	57	58	59	60	61	62	03/STR/BR	IIEW	EXT	TOTAL	UNII	DESCRIPTION	NO.	CALCI
														STRUCTURE REPAIR MAR-309-1398 (5101727)		1
								365	365	254	01000	365	SY	PAVEMENT PLANING, ASPHALT CONCRETE 3.0"	+	\dashv
								51	51 144	407	20000 30000	51 144	GAL FT	NON-TRACKING TACK COAT SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS	1	\exists
						 		144 12.7	12.7	409 441	10000	12.7		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22 1.25"	★ ~	\preceq
								102	102	517	75501	102	FT	BRIDGE RAILING REBUILT, AS PER PLAN	52	コケ
								6	6	626	00110	6	EACH	BARRIER REFLECTOR, TYPE 2 BI-DIRECTIONAL	$\overline{\mathbf{Y}}$	4
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