

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

PROJECT DESCRIPTION

BRIDGE MAINTENANCE ON VARIOUS ROUTES IN MAH, POR, AND TRU COUNTIES.

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.

APPROVED: 
DATE: 11/19/19 DISTRICT DEPUTY DIRECTOR

APPROVED: _____
DATE: _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

D04-BH-FY2020 (EAST)

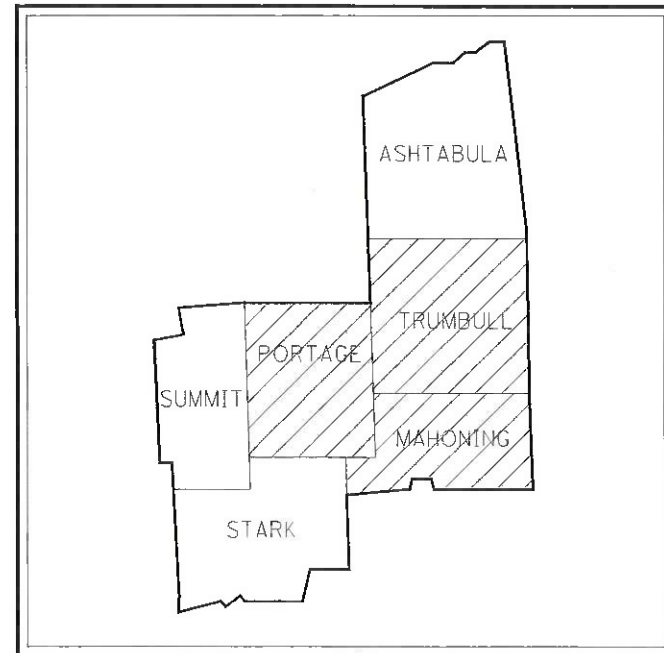
AUSTINTOWN, BEAVER, BOARDMAN, CANFIELD, ELLSWORTH, GOSHEN, GREEN, AND MILTON TOWNSHIP, VILLAGE OF POLAND
MAHONING COUNTY

EDINBURG, DEERFIELD, PALMYRA, RANDOLPH AND ROOTSTOWN TOWNSHIP
PORTAGE COUNTY

CHAMPION, LIBERTY, HUBBARD, AND WARREN TOWNSHIP, CITY OF WARREN, VILLAGE OF LORDSTOWN
TRUMBULL COUNTY

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LOCATION MAP

LATITUDE: 41°00'57" LONGITUDE: 81°29'30"



STRUCTURE	NHS	FUNCTIONAL CLASSIFICATION	STRUCTURE	NHS	FUNCTIONAL CLASSIFICATION
MAH-11-1341	YES	URBAN FREEWAY AND EXPRESSWAY	POR-76-1960	YES	RURAL INTERSTATE
MAH-14-0461	NO	RURAL MINOR ARTERIAL	POR-76-2012L	YES	RURAL INTERSTATE
MAH-14-0886	NO	URBAN MAJOR COLLECTOR	POR-76-2013R	YES	RURAL INTERSTATE
MAH-45-0580	NO	RURAL MINOR ARTERIAL	POR-76-2057L	YES	RURAL INTERSTATE
MAH-46-0796	NO	RURAL MAJOR COLLECTOR	POR-76-2057R	YES	RURAL INTERSTATE
MAH-46-1635	NO	URBAN PRINCIPAL ARTERIAL	POR-224-0712	NO	RURAL MINOR ARTERIAL
MAH-76-0165	YES	RURAL INTERSTATE	TRU-5-0689	YES	URBAN FREEWAY AND EXPRESSWAY
MAH-76-0409	YES	RURAL INTERSTATE	TRU-5-0761L	YES	URBAN FREEWAY AND EXPRESSWAY
MAH-76-0508	YES	RURAL INTERSTATE	TRU-5-0761R	YES	URBAN FREEWAY AND EXPRESSWAY
MAH-164-0741	NO	URBAN MINOR ARTERIAL	TRU-5-0774	YES	URBAN FREEWAY AND EXPRESSWAY
MAH-165-1729	NO	RURAL MAJOR COLLECTOR	TRU-5-0918	YES	URBAN FREEWAY AND EXPRESSWAY
MAH-165-1924	NO	RURAL MAJOR COLLECTOR	TRU-5-1100L	YES	URBAN FREEWAY AND EXPRESSWAY
MAH-170-0975	NO	URBAN MINOR ARTERIAL	TRU-5-1100R	YES	URBAN FREEWAY AND EXPRESSWAY
MAH-224-0863	NO	RURAL MINOR ARTERIAL	TRU-45-0131	NO	URBAN PRINCIPAL ARTERIAL
POR-5-0116L	YES	URBAN PRINCIPAL ARTERIAL	TRU-45-0296	NO	URBAN PRINCIPAL ARTERIAL
POR-14-2650	NO	RURAL MINOR ARTERIAL	TRU-45-0997	NO	URBAN PRINCIPAL ARTERIAL
POR-76-1115	YES	RURAL INTERSTATE	TRU-80-0462	YES	URBAN INTERSTATE
POR-76-1306L	YES	RURAL INTERSTATE	TRU-80-0497L	YES	URBAN INTERSTATE
POR-76-1308R	YES	RURAL INTERSTATE	TRU-80-0498R	YES	URBAN INTERSTATE
POR-76-1363	YES	RURAL INTERSTATE	TRU-80-0590L	YES	URBAN INTERSTATE
POR-76-1489	YES	RURAL INTERSTATE	TRU-80-0590R	YES	URBAN INTERSTATE
POR-76-1610	YES	RURAL INTERSTATE	TRU-80-0905	YES	URBAN INTERSTATE
POR-76-1759	YES	RURAL INTERSTATE	TRU-422-0877	NO	URBAN PRINCIPAL ARTERIAL
POR-76-1860L	YES	RURAL INTERSTATE	TRU-422-1170	NO	URBAN PRINCIPAL ARTERIAL
POR-76-1858R	YES	RURAL INTERSTATE			

DESIGN EXCEPTIONS

NONE



PLAN PREPARED BY:
ODOT --- DISTRICT 4 PLANNING AND ENGINEERING
2088 SOUTH ARLINGTON ROAD
AKRON, OHIO 44306

ENGINEERS SEAL:

SIGNED: 
DATE: 11/19/19

STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
MT-95.30	4/19/19	800-2019	10/18/19
MT-95.31	4/19/19	821	4/20/12
MT-95.32	4/19/19	921	4/20/12
MT-97.10	4/19/19		
MT-99.20	4/19/19		
MT-101.70	7/20/18		
MT-101.75	7/15/16		
MT-105.10	7/19/13		
TC-41.20	10/18/13		
TC-52.10	10/18/13		
TC-52.20	7/20/18		

FEDERAL PROJECT NO.
E190(096)

PID NO.
101377

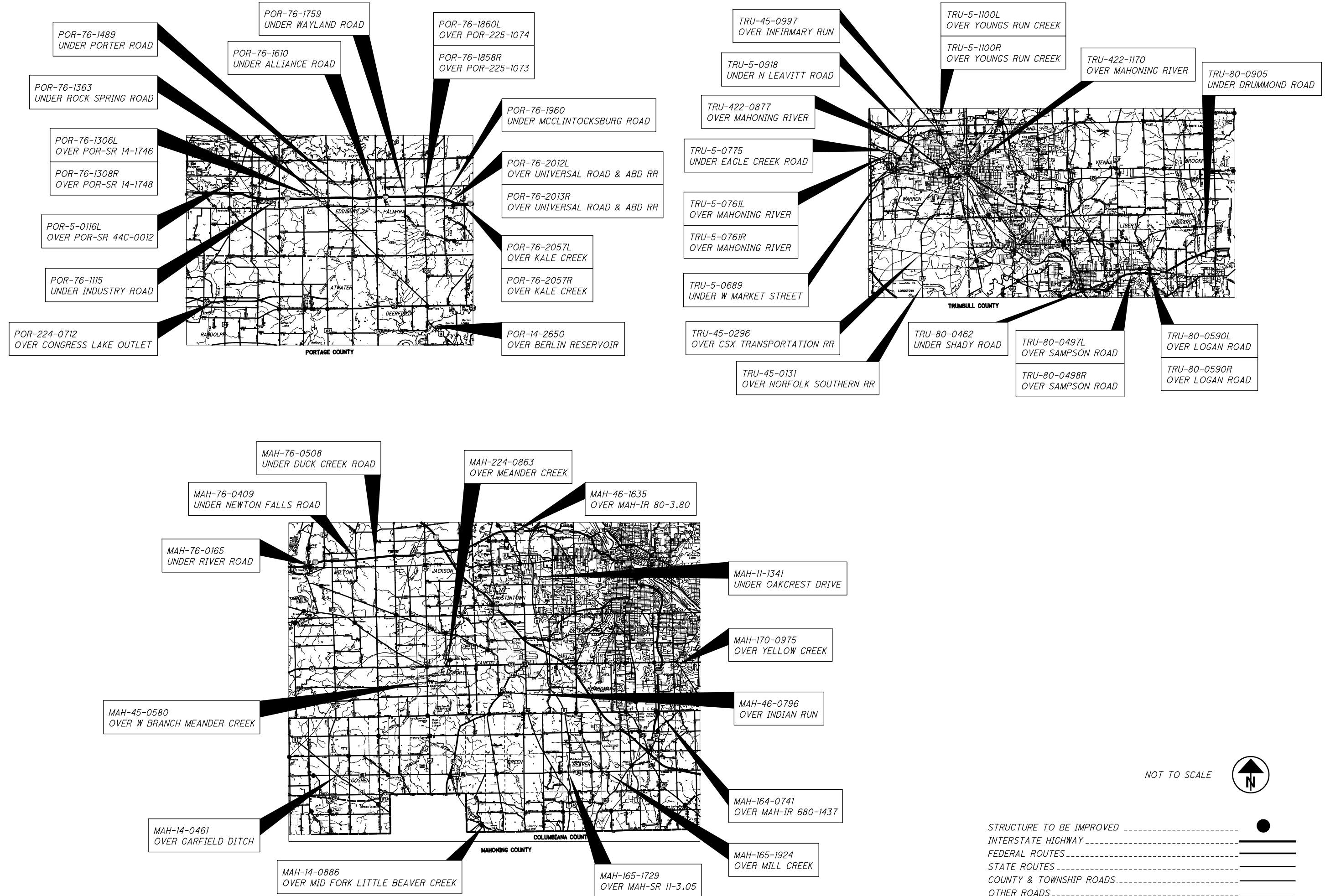
CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
CSX TRANSPORTATION
NORFOLK SOUTHERN

D04-BH-FY2020

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POR-76-1489
UNDER PORTER ROAD

POR-76-1363
UNDER ROCK SPRING ROAD

POR-76-1306L
OVER POR-SR 14-1746

POR-76-1308R
OVER POR-SR 14-1748

POR-5-0116L
OVER POR-SR 44C-0012

POR-76-1115
UNDER INDUSTRY ROAD

POR-224-0712
OVER CONGRESS LAKE OUTLET

POR-76-1759
UNDER WAYLAND ROAD

POR-76-1610
UNDER ALLIANCE ROAD

POR-76-1860L
OVER POR-225-1074

POR-76-1858R
OVER POR-225-1073

POR-76-1960
UNDER MCCLINTOCKSBURG ROAD

POR-76-2012L
OVER UNIVERSAL ROAD & ABD RR

POR-76-2013R
OVER UNIVERSAL ROAD & ABD RR

POR-76-2057L
OVER KALE CREEK

POR-76-2057R
OVER KALE CREEK

POR-14-2650
OVER BERLIN RESERVOIR

TRU-45-0997
OVER INFIRMARY RUN

TRU-5-0918
UNDER N LEAVITT ROAD

TRU-422-0877
OVER MAHONING RIVER

TRU-5-0775
UNDER EAGLE CREEK ROAD

TRU-5-0761L
OVER MAHONING RIVER

TRU-5-0761R
OVER MAHONING RIVER

TRU-5-0689
UNDER W MARKET STREET

TRU-45-0296
OVER CSX TRANSPORTATION RR

TRU-45-0131
OVER NORFOLK SOUTHERN RR

TRU-5-1100L
OVER YOUNGS RUN CREEK

TRU-5-1100R
OVER YOUNGS RUN CREEK

TRU-422-1170
OVER MAHONING RIVER

TRU-80-0905
UNDER DRUMMOND ROAD

TRU-80-0462
UNDER SHADY ROAD

TRU-80-0497L
OVER SAMPSON ROAD

TRU-80-0498R
OVER SAMPSON ROAD

TRU-80-0590L
OVER LOGAN ROAD

TRU-80-0590R
OVER LOGAN ROAD

MAH-76-0508
UNDER DUCK CREEK ROAD

MAH-76-0409
UNDER NEWTON FALLS ROAD

MAH-76-0165
UNDER RIVER ROAD

MAH-224-0863
OVER MEANDER CREEK

MAH-46-1635
OVER MAH-IR 80-3.80

MAH-11-1341
UNDER OAKCREST DRIVE

MAH-170-0975
OVER YELLOW CREEK

MAH-46-0796
OVER INDIAN RUN

MAH-45-0580
OVER W BRANCH MEANDER CREEK

MAH-164-0741
OVER MAH-IR 680-1437

MAH-14-0461
OVER GARFIELD DITCH

MAH-165-1924
OVER MILL CREEK

MAH-14-0886
OVER MID FORK LITTLE BEAVER CREEK

MAH-165-1729
OVER MAH-SR 11-3.05

NOT TO SCALE

STRUCTURE TO BE IMPROVED -----

INTERSTATE HIGHWAY -----

FEDERAL ROUTES -----

STATE ROUTES -----

COUNTY & TOWNSHIP ROADS -----

OTHER ROADS -----

LOCATION MAP

D04-BH-FY2020

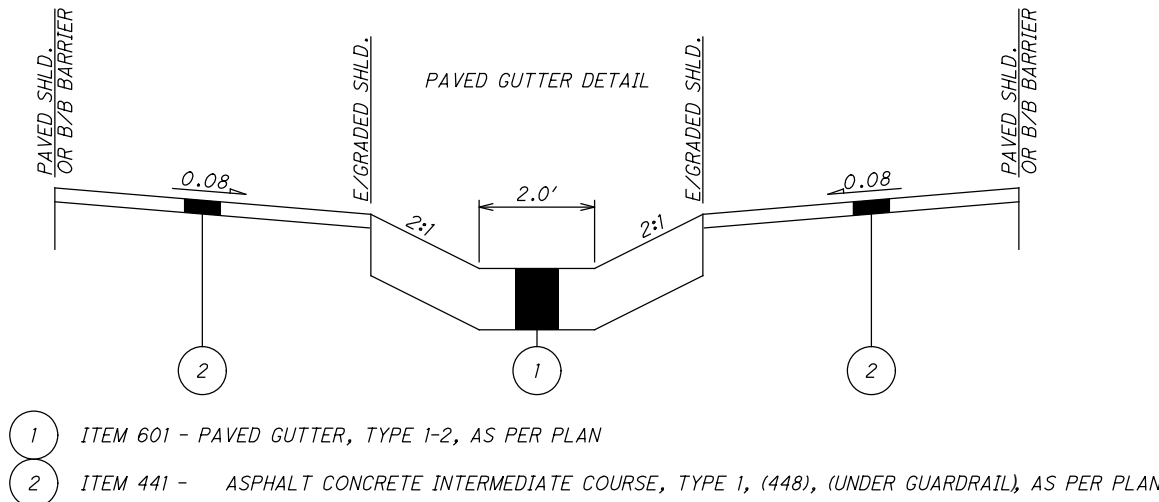
UTILITIES

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, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS), THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEAD-QUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

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

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.



CONCRETE GUTTER (TRU-80 - SLM 1.75 TO 1.80)

THE FOLLOWING QUANTITIES HAS BEEN CARRIED TO THE GENERAL SUMMARY AND IS TO BE USED AS DIRECTED BY THE ENGINEER TO PATCH THE HOLES IN THE EXISTING ASPHALT AROUND THE GUARDRAIL POSTS AND THE REMOVE/REPLACE THE EXISTING DAMAGED CONCRETE GUTTER. SEE PAVED GUTTER DETAIL BELOW FOR THE FOLLOWING WORK.

601, PAVED GUTTER, TYPE 1-2, AS PER PLAN 70 FT

441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), UNDER GUARDRAIL, AS PER PLAN 3 CY

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO REMOVE THE EXISTING CONCRETE GUTTER SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 601 - PAVED GUTTER, TYPE 1-2, AS PER PLAN.

PAVEMENT MARKINGS

THIS WORK WILL CONSIST OF REPLACING THE EXISTING PAVEMENT MARKINGS THAT ARE REMOVED DURING THE SURFACE PREPARATION OF ITEM 512, TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

BARRIER REFLECTORS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS DIRECTED BY THE ENGINEER FOR INSTALLING/REPLACING BARRIER REFLECTORS ON ALL EXISTING BARRIER RUNS WITHIN THE PROJECT LIMITS.

STRUCTURE	642	642	642	642	642	642		626	626	626
	EDGE LINE, 6"	LANE LINE, 6"	CENTER LINE	CHANNELIZING LINE, 8"	TRANSVERSE/DIAGONAL LINE	LANE ARROW		BARRIER REFLECTOR, TYPE 1(BIDIRECTIONAL)	BARRIER REFLECTOR, TYPE 1(ONE-WAY)	BARRIER REFLECTOR, TYPE 2(BIDIRECTIONAL)
	MILE	MILE	MILE	FT	FT	EACH		EACH	EACH	EACH
MAH-11-1341										
MAH-14-0461	0.04		0.02							4
MAH-14-0886	0.06		0.03					4		
MAH-45-0580	0.05		0.02							
MAH-46-0796	0.05		0.02					4		
MAH-46-1635	0.13	0.13	0.07	345		4		8		
MAH-76-0165	0.13		0.07					8		
MAH-76-0409	0.12		0.06					8		
MAH-76-0508	0.12		0.06					8		
MAH-164-0741	0.12	0.06	0.06	514	12	8		8		
MAH-165-1729	0.13		0.06					8		
MAH-165-1924	0.04		0.02					4		
MAH-170-0975	0.06		0.03					4		
MAH-224-0863	0.09		0.04							6
POR-5-0116L	0.12		0.06						8	
POR-14-2650	0.13		0.06							8
POR-76-1115	0.07		0.04					4		
POR-76-1306L	0.10	0.05							6	
POR-76-1308R	0.10	0.05							6	
POR-76-1363	0.10		0.05					6		
POR-76-1489	0.10		0.05					6		
POR-76-1610	0.10		0.05					6		
POR-76-1759	0.10		0.05					6		
POR-76-1860L	0.06	0.03							4	
POR-76-1858R	0.06	0.03							4	
POR-76-1960	0.11		0.05							6
POR-76-2012L	0.09	0.05							6	
POR-76-2013R	0.09	0.05							6	
POR-76-2057L	0.05	0.02							4	
POR-76-2057R	0.05	0.02							4	
POR-224-0712	0.05		0.03							4
TRU-5-0689	0.15		0.07					8		
TRU-5-0761L	0.11	0.05							6	
TRU-5-0761R	0.11	0.05							6	
TRU-5-0775	0.10		0.05					6		
TRU-5-0918	0.12		0.06					8		
TRU-5-1100L	0.05	0.02							4	
TRU-5-1100R	0.05	0.02							4	
TRU-45-0131	0.06	0.06	0.03					4		
TRU-45-0296	0.09	0.09	0.05					6		
TRU-45-0997			0.04					4		
TRU-80-0462			0.07					8		
TRU-80-0497L	0.08	0.04							6	
TRU-80-0498R	0.08	0.04							6	
TRU-80-059CL	0.06	0.03							4	
TRU-80-0590R	0.06	0.03							4	
TRU-80-0905	0.13		0.07					8		
TRU-422-0877	0.16	0.16	0.08	321	48	6		10		
TRU-422-1170	0.10	0.10	0.05					6		
TOTALS CARRIED TO GENERAL SUMMARY	4.13	1.18	1.57	1180	60	18	0	160	88	28

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GENERAL NOTES

D04 - BH - FY 2020

MAINTENANCE OF TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.
2. ON 2 AND 3 LANE SECTIONS: A MINIMUM OF ONE TEN FOOT BIDIRECTIONAL LANE SHALL BE MAINTAINED ON THE EXISTING AND COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.
3. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.
4. LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.
5. MAH-11, MAH-76, MAH-680, POR-76, TRU-5 AND TRU-80: TRUCK MOUNTED ATTENUATORS [TMA'S] SHALL BE USED AS SHOWN IN THE STANDARD CONSTRUCTION DRAWINGS.
6. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS TWO (2) MILES RURAL OR ONE (1) MILE URBAN.
7. ONLY DURING OFF-PEAK PERIODS (ie ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.
8. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION.
9. THE CONTRACTOR SHALL PLACE THE SIGN W6-3 [TWO-WAY TRAFFIC] PER OMUTCD 6F.32. PAYMENT FOR THESE SIGNS SHALL BE INCIDENTAL TO THE LUMP SUM ITEM 614-MAINTAINING TRAFFIC. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGNS HAS BEEN INCLUDED IN THE PLANS PER CMS 614.04.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON THIS PROJECT:
614, WORK ZONE MARKING SIGN (ALL PHASES), 120 EACH

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$3,000 FOR EACH HOUR THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN A NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING THE SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 300 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

LANE CLOSURES (MAH-11, MAH-76, MAH-680, POR-76, TRU-5 AND TRU-80)

DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AS PER THE PERMITTED LANE CLOSURE CHART. THE PERMITTED LANE CLOSURE CHART USED FOR THIS PROJECT SHALL BE THE MOST CURRENT CHART AVAILABLE ON THE DATE THIS PROJECT SELLS.

THE CHART CAN BE FOUND AT:
<http://plcm.dot.state.oh.us>

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THE REQUIREMENTS IN THE CHART, THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES IN THE AMOUNT OF \$2,500 PER HOUR OR PORTION THEREOF THAT THE LANE REDUCTION REMAINS BEYOND THE SPECIFIED LIMIT.

ITS MESSAGE BOARDS

THE EXISTING ITS MESSAGE BOARDS IN THE VICINITY OF THE PROJECT WILL BE UTILIZED TO PROVIDE SUPPLEMENTAL INFORMATION TO THE TRAVELING PUBLIC. THE CONTRACTOR WILL NOTIFY THE PROJECT ENGINEER ONE (1) WEEK IN ADVANCE OF ANY PHASE CHANGE ON MAH-76, MAH-45 AND POR-5. THE PROJECT ENGINEER WILL COORDINATE WITH BRENT KOVACS AT 330-786-2208 TO GET THE ITS MESSAGE BOARDS ADJUSTED.

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MAINTENANCE OF TRAFFIC GENERAL NOTES

D04-BH-FY2020

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVEABLE PAVEMENT DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
ROAD & RAMP CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERNS CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL BE ADVISED THAT PROJECT 94140 (MAH-76/VAR-1.30/VAR) AND 100957 (POR-5/44-0.55/VAR) MAY BE ONGOING IN AN AREA IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO CAUSE A MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECTS. IN ACCORDANCE WITH 105.08, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTORS APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL RECIEVE DAILY APPROVALS FROM THE ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREA, OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER. COMPEN-SATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.

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MAINTENANCE OF TRAFFIC GENERAL NOTES

D04-BH-FY2020

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SHEET NUM.							PART.						ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	5	9	10	01/IMS/B R	02/NHS/B R	03/S>2/B R	04/S<2/B R	05/STR/B R	06/IMS/OT								
																	FOR TRU-5-1100R ESTIMATED QUANTITIES	10
																	FOR TRU-80-0462 ESTIMATED QUANTITIES	10
																	FOR TRU-80-0497L ESTIMATED QUANTITIES	10
																	FOR TRU-80-0498R ESTIMATED QUANTITIES	10
																	FOR TRU-80-0590L ESTIMATED QUANTITIES	10
																	FOR TRU-80-0590R ESTIMATED QUANTITIES	10
																	FOR TRU-80-0905 ESTIMATED QUANTITIES	10
																	MAINTENANCE OF TRAFFIC	
				300									614	11110	300	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
			120										614	12460	120	EACH	WORK ZONE MARKING SIGN	
																	INCIDENTALS	
													614	11000	LS		MAINTAINING TRAFFIC	
													619	16010	6	MNTH	FIELD OFFICE, TYPE B	
													623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													624	10000	LS		MOBILIZATION	

<table border="1" style="width: 100%; height: 100%;"> <tr> <td style="text-align: center;">CALCULATED</td> <td style="text-align: center;">CMR</td> <td style="text-align: center;">CHECKED</td> <td style="text-align: center;">MJA</td> </tr> </table>	CALCULATED	CMR	CHECKED	MJA	GENERAL SUMMARY
CALCULATED	CMR	CHECKED	MJA		
D04-BH-FY2020	<table border="1" style="width: 100%; height: 100%;"> <tr> <td style="text-align: center;">7</td> </tr> <tr> <td style="text-align: center;">13</td> </tr> </table>	7	13		
7					
13					

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DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION , INCLUDING THE 2002 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

PROPOSED WORK DESCRIPTION

DECK SEALING

- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY-FED RESIN CONCRETE TREATMENT

DECK PATCHING (CONCRETE)

- REPAIR UNSOUND OR PREVIOUSLY PATCHED AREAS OF THE EXISTING TOP DECK AND APPROACH SLAB.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

Bridge Name	SFN	Feature Intersected	Deck Sealing	Deck Patching (concrete)
MAH-11-1341	5000696	Under Oakcrest Drive	X	X
MAH-14-0461	5001072	Over Garfield Ditch	X	
MAH-14-0886	5001145	Over Mid Fork Little Beaver Creek	X	
MAH-45-0580	5001544	Over W Branch Meander Creek	X	X
MAH-46-0796	5000882	Over Indian Run	X	
MAH-46-1635	5001803	Over MAH-IR 80-3.80	X	
MAH-76-0165	5002761	Under River Road	X	X
MAH-76-0409	5002826	Under Newton Falls Road	X	
MAH-76-0508	5002885	Under Duck Creek Road	X	
MAH-164-0741	5003253	Over MAH-IR 680-1437	X	
MAH-165-1729	5003660	Over MAH-SR 11-3.05	X	
MAH-165-1924	5003709	Over Mill Creek	X	
MAH-170-0975	5004152	Over Yellow Creek	X	
MAH-224-0863	5004683	Over Meander Creek	X	X
POR-5-0116L	6700039	Over POR-SR 44C-0012	X	
POR-14-2650	6701000	Over Berlin Reservoir	X	X
POR-76-1115	6702589	Under Industry Road	X	
POR-76-1306L	6702643	Over POR-SR 14-1746	X	
POR-76-1308R	6702708	Over POR-SR 14-1748	X	
POR-76-1363	6702732	Under Rock Spring Road	X	
POR-76-1489	6702767	Under Porter Road	X	
POR-76-1610	6702864	Under Alliance Road	X	
POR-76-1759	6702910	Under Wayland Road	X	
POR-76-1860L	6702945	Over POR-225-1074	X	X
POR-76-1858R	6703003	Over POR-225-1073	X	X
POR-76-1960	6703062	Under McClintocksburg Road	X	
POR-76-2012L	6703097	Over Universal Road	X	X
POR-76-2013R	6703127	Over Universal Road	X	X
POR-76-2057L	6703151	Over Kale Creek	X	X
POR-76-2057R	6703186	Over Kale Creek	X	X
POR-224-0712	6703879	Over Congress Lake Outlet	X	
TRU-5-0689	7800282	Under W Market Street	X	
TRU-5-0761L	7800339	Over Mahoning River	X	
TRU-5-0761R	7800363	Over Mahoning River	X	
TRU-5-0775	7800398	Under Eagle Creek Road	X	
TRU-5-0918	7800541	Under N Leavitt Road	X	
TRU-5-1100L	7800754	Over Youngs Run Creek	X	
TRU-5-1100R	7800789	Over Youngs Run Creek	X	X
TRU-45-0131	7801963	Over Norfolk Southern RR	X	
TRU-45-0296	7801998	Over CSX Transportation RR	X	X
TRU-45-0997	7802110	Over Infirmary Run	X	
TRU-80-0462	7803907	Under Shady Road	X	
TRU-80-0497L	7803931	Over Sampson Road	X	
TRU-80-0498R	7803966	Over Sampson Road	X	
TRU-80-0590L	7803990	Over Logan Road	X	
TRU-80-0590R	7804024	Over Logan Road	X	
TRU-80-0905	7804202	Under Drummond Road	X	
TRU-422-0877	7807015	Over Mahoning River	X	
TRU-422-1170	7807031	Over Mahoning River	X	X

CALC: CMR DATE: 8/7/2019
 CHECKED: MJA DATE: 11/19/2019

ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
MAH-11-1341 5000696 02/NHS/BR	MAH-14-0461 5001072 05/STR/BR	MAH-14-0886 5001145 04/S<2/BR	MAH-45-0580 5001544 05/STR/BR	MAH-46-0796 5000882 05/STR/BR	MAH-46-1635 5001803 01/IMS/BR	MAH-76-0165 5002761 01/IMS/BR	MAH-76-0409 5002826 01/IMS/BR	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
887	521	820	629	434	3020	1456	989	SPECIAL	51912304	SY	CONCRETE BRIDGE DECK - TYPE C	
10			7			17						
ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
MAH-76-0508 5002885 01/IMS/BR	MAH-164-0741 5003253 01/IMS/BR	MAH-165-1729 5003660 02/NHS/BR	MAH-165-1924 5003709 05/STR/BR	MAH-170-0975 5004152 03/S>2/BR	MAH-224-0863 5004683 05/STR/BR			512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
989	2673	1294	476	746	1110			SPECIAL	51912304	SY	CONCRETE BRIDGE DECK - TYPE C	
					12							
ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
POR-5-0116L 6700039 02/NHS/BR	POR-14-2650 6701000 05/STR/BR	POR-76-1115 6702589 01/IMS/BR	POR-76-1306L 6702643 01/IMS/BR	POR-76-1308R 6702708 01/IMS/BR	POR-76-1363 6702732 01/IMS/BR	POR-76-1489 6702767 01/IMS/BR	POR-76-1610 6702864 01/IMS/BR	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
941	1477	788	1230	1230	803	798	782	SPECIAL	51912304	SY	CONCRETE BRIDGE DECK - TYPE C	
	17											
ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
POR-76-1759 6702910 01/IMS/BR	POR-76-1860L 6702945 01/IMS/BR	POR-76-1858R 6703003 01/IMS/BR	POR-76-1960 6703062 01/IMS/BR	POR-76-2012L 6703097 01/IMS/BR	POR-76-2013R 6703127 01/IMS/BR	POR-76-2057L 6703151 01/IMS/BR	POR-76-2057R 6703186 01/IMS/BR	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
812	787	787	897	1094	1094	586	586	519	12304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	
	10	10		13	13	8	8					

DESIGN AGENCY
 ODOT --- DISTRICT 4
 PLANNING AND ENGINEERING

REVIEWED DATE
 RS 11/19/2019
 STRUCTURE FILE NUMBER

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 CMR

STRUCTURE ESTIMATED QUANTITIES
 MAHONING: SR-11, SR-14, SR-45, SR-46, IR-76 SR-164, SR-165, SR-170, US-224
 PORTAGE: SR-5, SR-14, IR-76, US-224
 TRUMBULL: SR-5, SR-45, IR-80, US-422

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 PID No. 101377

CALC: CMR DATE: 8/7/2019
 CHECKED: MJA DATE: 11/19/2019

ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
POR-224-0712 6703879 05/STR/BR								512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
698								519	12304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	
ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
TRU-5-0689 7800282 02/NHS/BR	TRU-5-0761L 7800339 02/NHS/BR	TRU-5-0761R 7800363 02/NHS/BR	TRU-5-0775 7800398 02/NHS/BR	TRU-5-0918 7800541 02/NHS/BR	TRU-5-1100L 7800754 02/NHS/BR	TRU-5-1100R 7800789 02/NHS/BR	TRU-45-0131 7801963 03/S>2/BR	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
1374	1217	1233	895	1125	408	337	1249	519	12304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	
						4						
ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
TRU-45-0296 7801998 03/S>2/BR	TRU-45-0997 7802110 03/S>2/BR	TRU-80-0462 7803907 01/IMS/BR	TRU-80-0497L 7803931 01/IMS/BR	TRU-80-0498R 7803966 01/IMS/BR	TRU-80-0590L 7803990 01/IMS/BR	TRU-80-0590R 7804024 01/IMS/BR	TRU-80-0905 7804202 01/IMS/BR	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
1898	482	941	1415	1415	1121	1121	1097	519	12304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	
20												
ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
TRU-422-0877 7807015 03/S>2/BR	TRU-422-1170 7807031 03/S>2/BR							512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
2768	1615							519	12304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	
	17											

DESIGN AGENCY
 ODOT --- DISTRICT 4
 PLANNING AND ENGINEERING

REVIEWED
 RS 11/19/2019
 STRUCTURE FILE NUMBER

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STRUCTURE ESTIMATED QUANTITIES

MAHONING: SR-11, SR-14, SR-45, SR-46, IR-76 SR-164, SR-165, SR-170, US-224
 PORTAGE: SR-5, SR-14, IR-76, US-224
 TRUMBULL: SR-5, SR-45, IR-80, US-422

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BRIDGE NUMBER	BRIDGE DECK										APPROACH SLABS										DESIGN AGENCY ODOT --- DISTRICT 4 PLANNING AND ENGINEERING																		
	LENGTH (BRIDGE LIMITS)	BRIDGE WIDTH	DECK AREA	512 TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN							SPECIAL PATCHING CONCRETE BRIDGE DECK - TYPE C	LENGTH (APPROACH SLABS)	APPROACH SLAB WIDTH	APPROACH SLAB AREA	APPROACH (FORWARD / REAR)	512 TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN							SPECIAL PATCHING CONCRETE BRIDGE DECK - TYPE C																
				FT	FT	SQ YD	SY	SY	SY	SY						SY	SY	FT	FT	SQ YD	SY	SY		SY	SY	SY	SY												
MAH-11-1341	282.50	24.00	753.33								25.00	24.00	66.67	FWD	66.67																	REVIEWED RS	DATE 11/19/2019	FILE NUMBER STRUCTURE FILE NUMBER					
											25.00	24.00	66.67	REAR	66.67																								
MAH-14-0461	30.38	58.29	196.76								25.00	64.20	178.33	FWD	178.33																								
											25.00	52.39	145.53	REAR	145.53																								
MAH-14-0886	137.56	44.00	672.52								15.00	44.00	73.33	FWD	73.33																								
											15.00	44.00	73.33	REAR	73.33																								
MAH-45-0580	88.46	44.00	432.47							5.00	20.00	44.00	97.78	FWD	97.78																								
											20.00	44.00	97.78	REAR	97.78																								
MAH-46-0796	72.00	32.00	256.00								25.00	32.00	88.89	FWD	88.89																								
											25.00	32.00	88.89	REAR	88.89																								
MAH-46-1635	295.31	78.74	2583.63								24.93	78.74	218.11	FWD	218.11																								
											24.93	78.74	218.11	REAR	218.11																								
MAH-76-0165	294.74	38.00	1244.46							13.00	25.00	38.00	105.56	FWD	105.56																								
											25.00	38.00	105.56	REAR	105.56																								
MAH-76-0409	283.52	27.50	866.31								20.00	27.50	61.11	FWD	61.11																								
											20.00	27.50	61.11	REAR	61.11																								
MAH-76-0508	283.52	27.50	866.31								20.00	27.50	61.11	FWD	61.11																								
											20.00	27.50	61.11	REAR	61.11																								
MAH-164-0741	293.58	70.00	2283.40								25.00	70.00	194.44	FWD	194.44																								
											25.00	70.00	194.44	REAR	194.44																								
MAH-165-1729	282.50	35.00	1098.61								25.00	35.00	97.22	FWD	97.22																								
											25.00	35.00	97.22	REAR	97.22																								
MAH-165-1924	56.50	40.17	252.18								25.00	40.17	111.58	FWD	111.58																								
											25.00	40.17	111.58	REAR	111.58																								
MAH-170-0975	127.70	40.00	567.56								20.00	40.00	88.89	FWD	88.89																								
											20.00	40.00	88.89	REAR	88.89																								
MAH-224-0863	186.95	44.00	913.98							10.00	20.00	44.00	97.78	FWD	97.78																								
											20.00	44.00	97.78	REAR	97.78																								
TOTALS				12988	36						TOTALS				3049	10																							

STRUCTURE DETAILS
 MAHONING: SR-11, SR-14, SR-45, SR-46, IR-76, SR-164, SR-165, SR-170, US-224
 PORTAGE: SR-5, SR-14, IR-76, US-224
 TRUMBULL: SR-5, SR-45, IR-80, US-422

D04-BH-FY 2020
PID No. 101377

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BRIDGE NUMBER	BRIDGE DECK										APPROACH SLABS														
	LENGTH (BRIDGE LIMITS)	BRIDGE WIDTH	DECK AREA	512		SPECIAL						LENGTH (APPROACH SLABS)	APPROACH SLAB WIDTH	APPROACH SLAB AREA	APPROACH (FORWARD / REAR)	512		SPECIAL							
	FT	FT	SQ YD	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	SY					FT	FT	SQ YD		TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	SY						
POR-5-0116L	258.52	27.00	775.56		775.56			RAMP				25.00	27.00	75.00	FWD	75.00									
												30.00	27.00	90.00	REAR	90.00									
POR-14-2650	282.12	40.00	1253.87		1253.87		13.00					25.00	40.00	111.11	FWD	111.11		2.00							
												25.00	40.00	111.11	REAR	111.11		2.00							
POR-76-1115	196.33	30.00	654.43		654.43							20.00	30.00	66.67	FWD	66.67									
												20.00	30.00	66.67	REAR	66.67									
POR-76-1306L	270.00	41.00	1230.00		1230.00							25.00	24.00	66.67	FWD										
												25.00	24.00	66.67	REAR										
POR-76-1308R	270.00	41.00	1230.00		1230.00							25.00	24.00	66.67	FWD										
												25.00	24.00	66.67	REAR										
POR-76-1363	210.84	30.00	702.80		702.80							15.00	30.00	50.00	FWD	50.00									
												15.00	30.00	50.00	REAR	50.00									
POR-76-1489	210.67	27.56	645.12		645.12							24.93	27.56	76.34	FWD	76.34									
												24.93	27.56	76.34	REAR	76.34									
POR-76-1610	211.34	28.00	657.50		657.50							20.00	28.00	62.22	FWD	62.22									
												20.00	28.00	62.22	REAR	62.22									
POR-76-1759	210.83	28.00	655.92		655.92							25.00	28.00	77.78	FWD	77.78									
												25.00	28.00	77.78	REAR	77.78									
POR-76-1860L	118.50	42.00	553.00		553.00		6.00					25.00	42.00	116.67	FWD	116.67		2.00							
												25.00	42.00	116.67	REAR	116.67		2.00							
POR-76-1858R	118.50	42.00	553.00		553.00		6.00					25.00	42.00	116.67	FWD	116.67		2.00							
												25.00	42.00	116.67	REAR	116.67		2.00							
POR-76-1960	238.29	28.00	741.35		741.35							25.00	28.00	77.78	FWD	77.78									
												25.00	28.00	77.78	REAR	77.78									
POR-76-2012L	195.94	40.00	870.84		870.84		9.00					25.00	40.00	111.11	FWD	111.11		2.00							
												25.00	40.00	111.11	REAR	111.11		2.00							
POR-76-2013R	195.94	40.00	870.84		870.84		9.00					25.00	40.00	111.11	FWD	111.11		2.00							
												25.00	40.00	111.11	REAR	111.11		2.00							
POR-76-2057L	79.50	40.69	359.43		359.43		4.00					25.00	40.69	113.03	FWD	113.03		2.00							
												25.00	40.69	113.03	REAR	113.03		2.00							
POR-76-2057R	79.50	40.69	359.43		359.43		4.00					25.00	40.69	113.03	FWD	113.03		2.00							
												25.00	40.69	113.03	REAR	113.03		2.00							
POR-224-0712	92.64	44.00	452.91		452.91							25.00	44.00	122.22	FWD	122.22									
												25.00	44.00	122.22	REAR	122.22									
TOTALS					12113		51				TOTALS					2572		28							

DESIGN AGENCY	ODOT --- DISTRICT 4
DATE	11/19/2019
REVIEWED	RS
DRAWN	CMR
DESIGNED	CMR
CHECKED	MJA
STRUCTURE FILE NUMBER	
REVISED	CMR
STRUCTURE DETAILS	
MAHONING: SR-11, SR-14, SR-45, SR-46, IR-76, SR-164, SR-165, SR-170, US-224	
PORTAGE: SR-5, SR-14, IR-76, US-224	
TRUMBULL: SR-5, SR-45, IR-80, US-422	
D04-BH-FY2020	PID No. 101377
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BRIDGE NUMBER	BRIDGE DECK										APPROACH SLABS										DESIGN AGENCY ODOT --- DISTRICT 4 PLANNING AND ENGINEERING				
	LENGTH (BRIDGE LIMITS)	BRIDGE WIDTH	DECK AREA	512		SPECIAL						LENGTH (APPROACH SLABS)	APPROACH SLAB WIDTH	APPROACH SLAB AREA	APPROACH (FORWARD / REAR)	512		SPECIAL							
	FT	FT	SQ YD	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	SY					FT	FT	SQ YD		TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	SY						
TRU-5-0689	336.22	32.00	1195.45		1195.45							25.00	32.00	88.89	FWD	88.89									
												25.00	32.00	88.89	REAR	88.89									
TRU-5-0761L	223.70	40.00	994.22		994.22							25.00	40.00	111.11	FWD	111.11									
												25.00	40.00	111.11	REAR	111.11									
TRU-5-0761R	227.40	40.00	1010.67		1010.67							25.00	40.00	111.11	FWD	111.11									
												25.00	40.00	111.11	REAR	111.11									
TRU-5-0775	209.73	31.00	722.40		722.40							25.00	31.00	86.11	FWD	86.11									
												25.00	31.00	86.11	REAR	86.11									
TRU-5-0918	256.15	32.00	910.76		910.76							30.00	32.00	106.67	FWD	106.67									
												30.00	32.00	106.67	REAR	106.67									
TRU-5-1100L	79.66	46.00	407.15		407.15							25.00	46.00	127.78	FWD										
												25.00	46.00	127.78	REAR										
TRU-5-1100R	79.66	38.00	336.34		336.34	4.00						25.00	38.00	105.56	FWD										
												25.00	38.00	105.56	REAR										
TRU-45-0131	106.03	72.00	848.24		848.24							25.00	72.00	200.00	FWD	200.00									
												25.00	72.00	200.00	REAR	200.00									
TRU-45-0296	194.02	70.00	1509.04		1509.04	16.00						25.00	70.00	194.44	FWD	194.44	2.00								
												25.00	70.00	194.44	REAR	194.44	2.00								
TRU-45-0997	54.00	38.00	228.00		228.00							30.00	38.00	126.67	FWD	126.67									
												30.00	38.00	126.67	REAR	126.67									
TRU-80-0462	302.52	24.00	806.72		806.72							25.00	24.00	66.67	FWD	66.67									
												25.00	24.00	66.67	REAR	66.67									
TRU-80-0497L	162.16	60.00	1081.07		1081.07							25.00	60.00	166.67	FWD	166.67									
												25.00	60.00	166.67	REAR	166.67									
TRU-80-0498R	162.16	60.00	1081.07		1081.07							25.00	60.00	166.67	FWD	166.67									
												25.00	60.00	166.67	REAR	166.67									
TRU-80-0590L	118.04	60.00	786.93		786.93							25.00	60.00	166.67	FWD	166.67									
												25.00	60.00	166.67	REAR	166.67									
TRU-80-0590R	118.04	60.00	786.93		786.93							25.00	60.00	166.67	FWD	166.67									
												25.00	60.00	166.67	REAR	166.67									
TRU-80-0905	302.48	28.00	941.05		941.05							25.00	28.00	77.78	FWD	77.78									
												25.00	28.00	77.78	REAR	77.78									
TRU-422-0877	369.38	58.00	2380.45		2380.45							30.00	58.00	193.33	FWD	193.33									
												30.00	58.00	193.33	REAR	193.33									
TRU-422-1170	229.50	56.00	1428.00		1428.00	15.00						15.00	56.00	93.33	FWD	93.33	1.00								
												15.00	56.00	93.33	REAR	93.33	1.00								
TOTALS					13646		20					TOTALS					3672		4						

STRUCTURE DETAILS
 MAHONING: SR-11, SR-14, SR-45, SR-46, SR-46, IR-76, SR-164, SR-165, SR-170, US-224
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