

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

# D04-SP-FY2019(EAST)

HARPERSFIELD & TRUMBULL TOWNSHIP

ASHTABULA COUNTY

CITY OF YOUNGSTOWN

BEAVER, BOARDMAN, CANFIELD, COITSVILLE,  
MILTON, POLAND & SPRINGFIELD TOWNSHIP

MAHONING COUNTY

BLOOMFIELD, GREENE, GUSTAVUS, JOHNSTON,  
MESOPOTAMIA, SOUTHLINGTON & WARREN TOWNSHIP

TRUMBULL COUNTY

**PROJECT DESCRIPTION**

FULL DEPTH REPAIRS TO MAH-IR-76 & MAH-IR-80.  
PARTIAL DEPTH REPAIRS TO ATB-SR-534, MAH-IR-680,  
MAH-US-122, MAH-US-62, MAH-US-224, MAH-SR-7,  
MAH-SR-170, TRU-US-422, TRU-SR-11 AND  
TRU-SR-87.

PROJECT EARTH DISTURBED AREA: N/A (MAINTENANCE PROJECT)  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A (MAINTENANCE PROJECT)  
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (MAINTENANCE PROJECT)

FEDERAL PROJECT NO.  
**NON-FEDERAL**

PID NO.  
**96681**

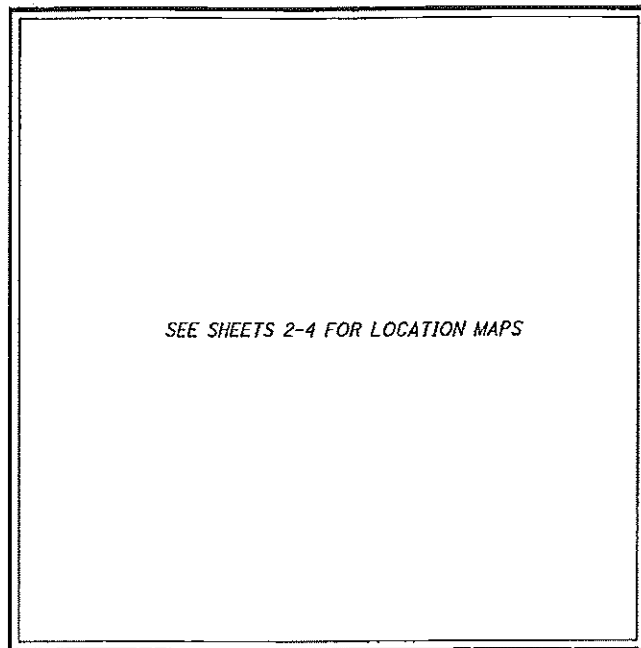
CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT  
**NONE**

**D04-SP-FY2019  
(EAST)**

1  
9

SEE SHEETS 2-4 FOR LOCATION MAPS



LOCATION MAP

D04 - SP FY2019 (East)  
190324 PID - 96681  
Dist 4 5/23/2019

Contract Proposal Available @  
www.contracts.dot.state.oh.us/home

**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 EXCEPT AS NOTED ON SHEET 8, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

**DESIGN DESIGNATION**

ROUTE	NHS	DESIGN FUNCTIONAL CLASSIFICATION
ATB-534 (11.60-18.60)	NO	RURAL MAJOR COLLECTOR
ATB-534 (18.60-19.34)	NO	URBAN MAJOR COLLECTOR
MAH-80 (0.83-0.84)	YES	RURAL INTERSTATE
MAH-76 (7.34-7.35)	YES	RURAL INTERSTATE
MAH-76 (7.66-7.67)	YES	RURAL INTERSTATE
MAH-76 (8.45-8.46)	YES	RURAL INTERSTATE
MAH-62 (9.67-13.16)	NO	URBAN MINOR ARTERIAL
MAH-76 (3.68)	YES	RURAL INTERSTATE
MAH-224 (13.94-17.81)	YES	URBAN PRINCIPAL ARTERIAL
MAH-422 (7.58-10.14)	YES	RURAL PRINCIPAL ARTERIAL
MAH-7 (3.45-4.54)	NO	RURAL MINOR ARTERIAL
MAH-7 (4.54-6.21)	NO	URBAN PRINCIPAL ARTERIAL
MAH-170 (5.60-9.40)	NO	URBAN MINOR ARTERIAL
TRU-422 (0.00-5.13)	YES	RURAL PRINCIPAL ARTERIAL
TRU-422 (5.13-8.00)	YES	URBAN PRINCIPAL ARTERIAL
TRU-11 (19.00-19.66)	YES	URBAN OTHER FREEWAY & EXPRESSWAY
TRU-11 (19.66-28.46)	YES	RURAL OTHER FREEWAY & EXPRESSWAY
TRU-87 (2.52-7.05)	NO	RURAL MAJOR COLLECTOR

**INDEX OF SHEETS:**

TITLE SHEET	1
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**DESIGN EXCEPTIONS**

NONE



PLAN PREPARED BY:  
ODOT DISTRICT 4, PLANNING & ENGINEERING  
2088 S. ARLINGTON ROAD  
AKRON, OH 44306

ENGINEERS SEAL:

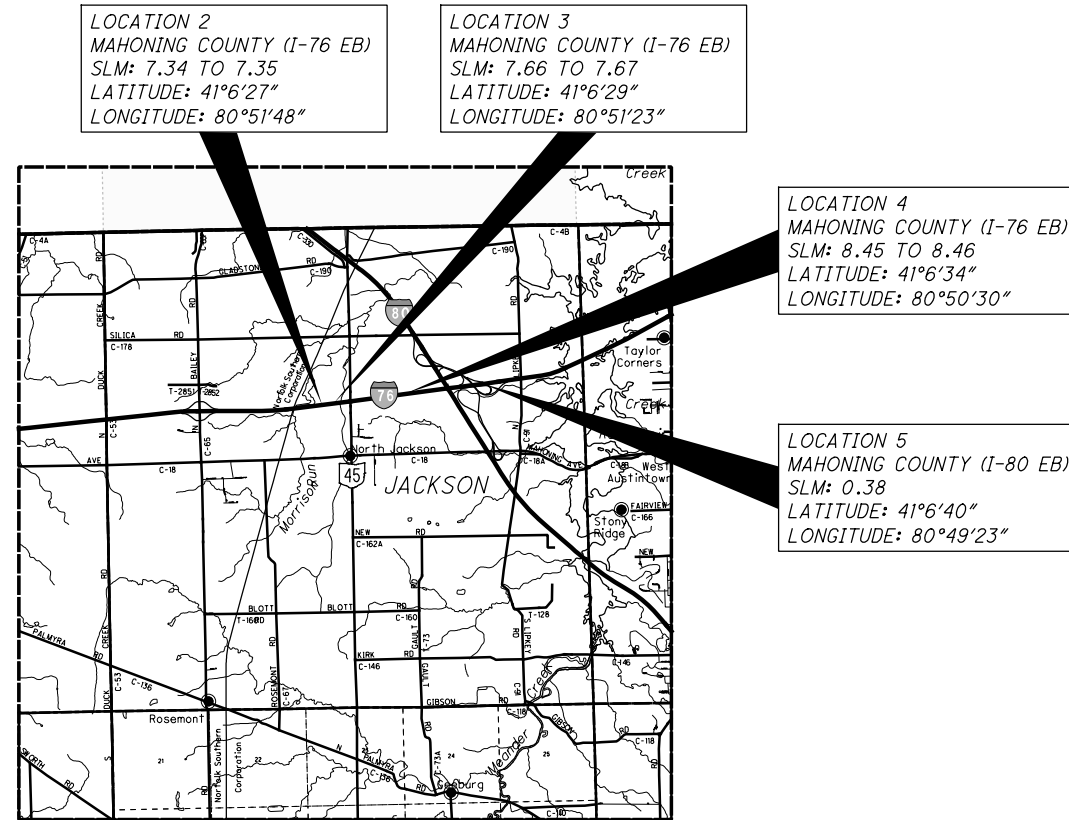
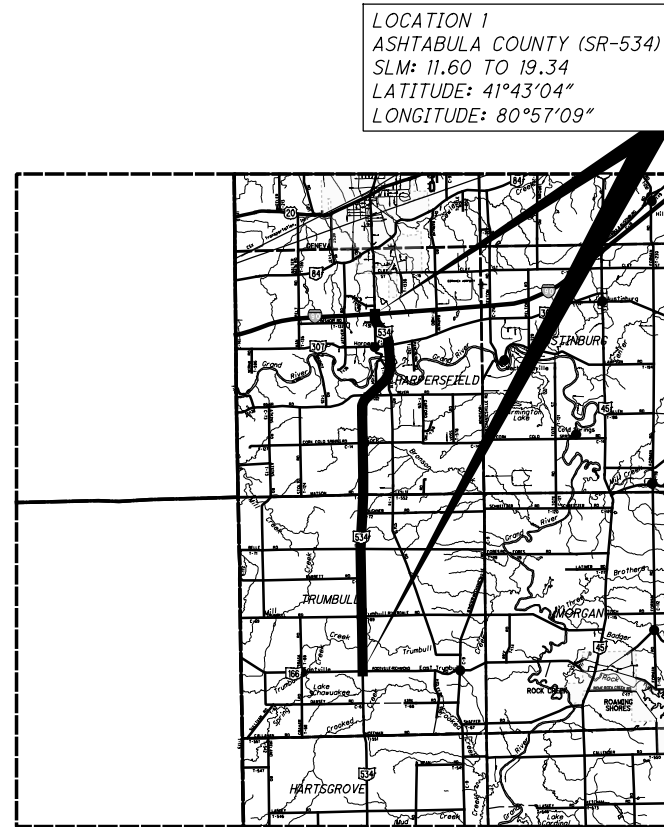


SIGNED: *Rebecca M. Bisesi*  
DATE: 2-2019

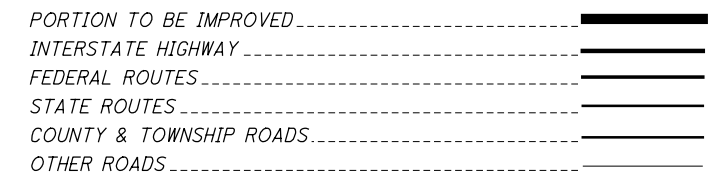
STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	7/18/14	TC-41.20	10/18/13	800-2019 1/18/19	
BP-2.5	7/19/13	TC-52.10	10/18/13	821 4/20/12	
BP-5.1	1/18/19	TC-52.20	7/20/18	832 10/19/18	
		TC-65.10	1/17/14	921 4/20/12	
MT-95.30	7/21/17	TC-65.11	7/21/17		
MT-95.31	7/21/17	TC-71.10	1/19/18		
MT-95.32	7/21/17				
MT-97.10	7/18/14				
MT-97.11	1/20/17				
MT-99.20	7/20/18				
MT-101.90	7/21/17				
MT-105.10	7/19/13				
MT-98.29	1/20/17				

APPROVED: *[Signature]*  
DATE: 2/21/19 DISTRICT DEPUTY DIRECTOR

APPROVED: *[Signature]*  
DATE: 3/4/19 DIRECTOR, DEPARTMENT OF TRANSPORTATION



CONTRACTOR SHALL COMPLETE THE REPAIRS AT LOCATIONS 2 THRU 5 FIRST. THE REMAINING LOCATIONS WILL FOLLOW.

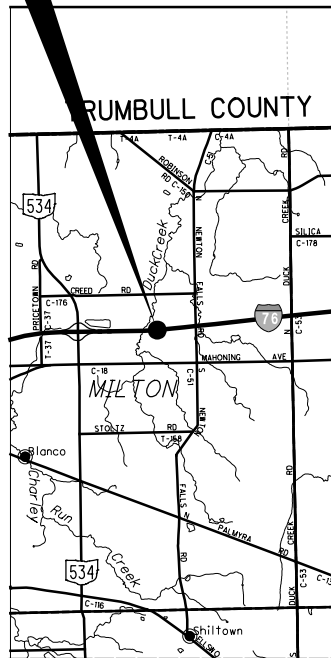


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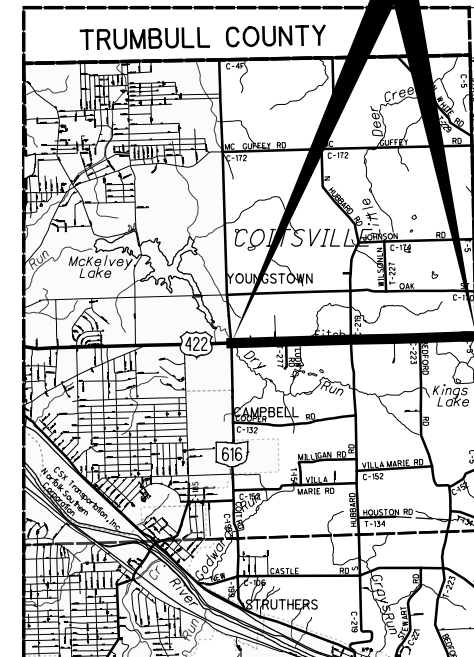
**LOCATION MAPS (ASHTABULA AND MAHONING COUNTY)**

**D04-SP-FY2019 (EAST)**

LOCATION 6  
 MAHONING COUNTY (US-76)  
 SLM: 3.68 (WB LEFT SHOULDER)  
 LATITUDE: 41°06'15"  
 LONGITUDE: 80°55'59"



LOCATION 10  
 MAHONING COUNTY (US-422)  
 SLM: 7.58 TO 10.14  
 LATITUDE: 41°05'26"  
 LONGITUDE: 80°32'37"



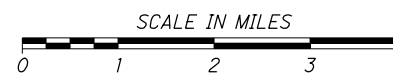
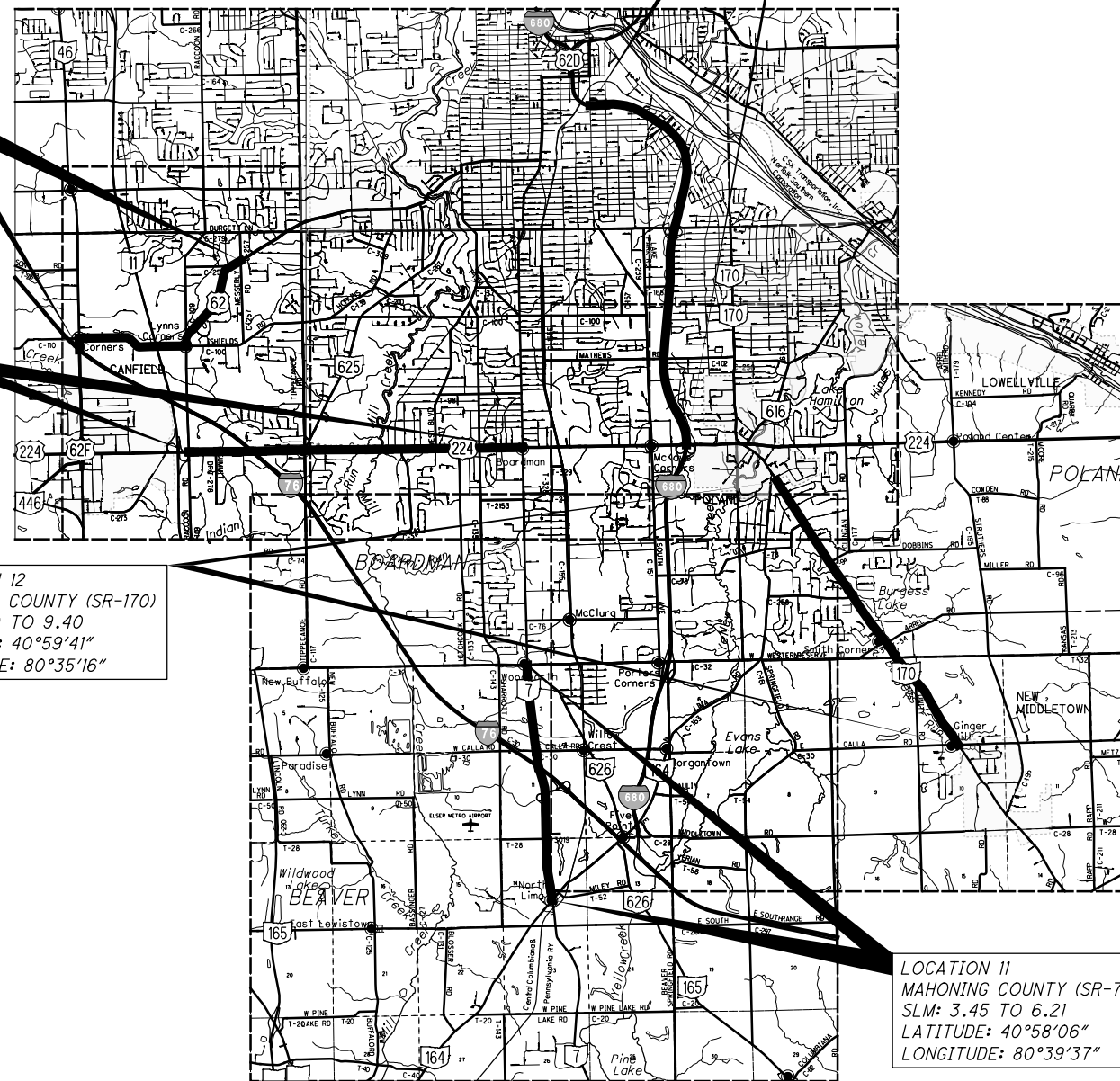
LOCATION 9  
 MAHONING COUNTY (IR-680)  
 SLM: 7.05 TO 11.85  
 LATITUDE: 41°03'28"  
 LONGITUDE: 80°37'46"

LOCATION 7  
 MAHONING COUNTY (US-62)  
 SLM: 9.67 TO 13.16  
 LATITUDE: 41°02'46"  
 LONGITUDE: 80°44'04"

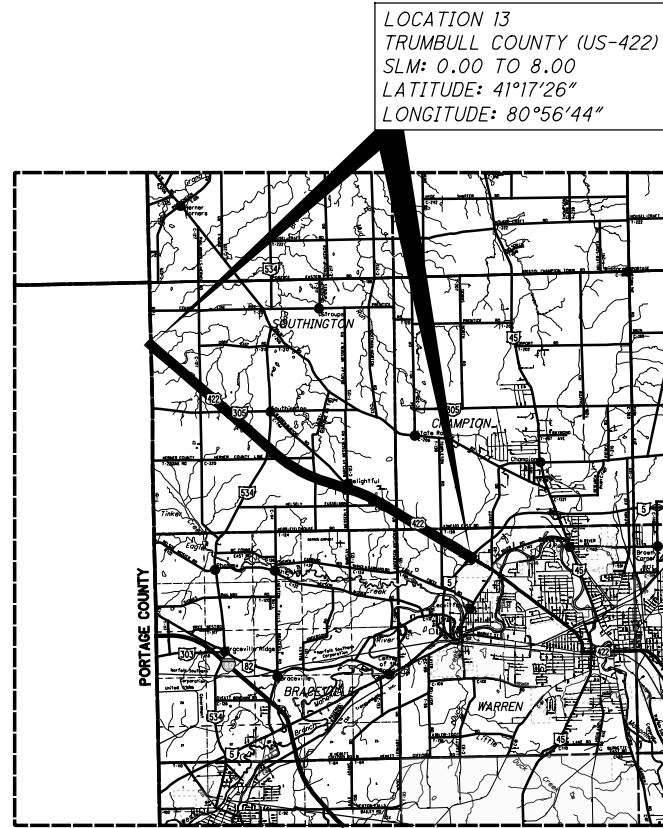
LOCATION 8  
 MAHONING COUNTY (US-224)  
 SLM: 13.94 TO 17.81  
 LATITUDE: 41°01'28"  
 LONGITUDE: 80°42'00"

LOCATION 12  
 MAHONING COUNTY (SR-170)  
 SLM: 5.60 TO 9.40  
 LATITUDE: 40°59'41"  
 LONGITUDE: 80°35'16"

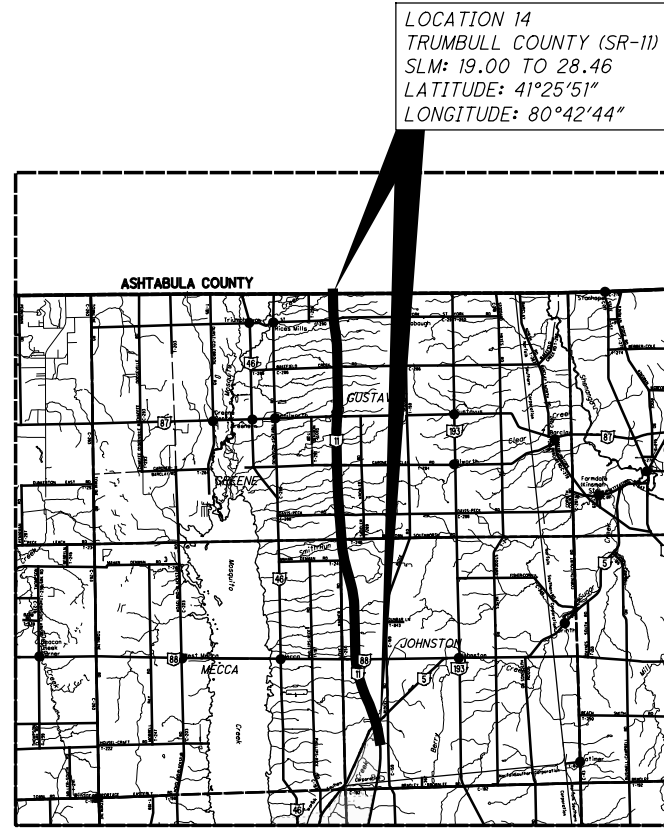
LOCATION 11  
 MAHONING COUNTY (SR-7)  
 SLM: 3.45 TO 6.21  
 LATITUDE: 40°58'06"  
 LONGITUDE: 80°39'37"



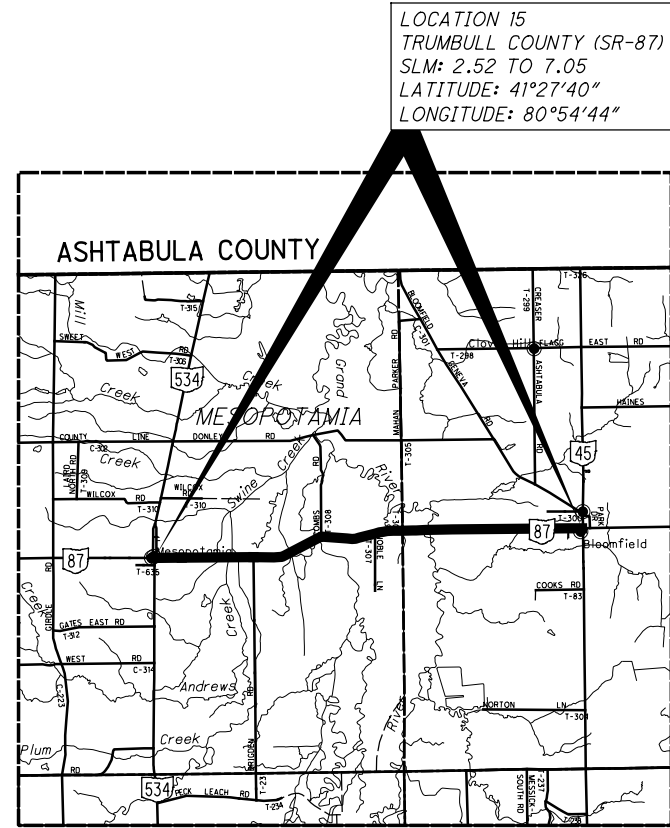
- PORTION TO BE IMPROVED -----
- INTERSTATE HIGHWAY -----
- FEDERAL ROUTES -----
- STATE ROUTES -----
- COUNTY & TOWNSHIP ROADS -----
- OTHER ROADS -----



LOCATION 13  
 TRUMBULL COUNTY (US-422)  
 SLM: 0.00 TO 8.00  
 LATITUDE: 41°17'26"  
 LONGITUDE: 80°56'44"



LOCATION 14  
 TRUMBULL COUNTY (SR-11)  
 SLM: 19.00 TO 28.46  
 LATITUDE: 41°25'51"  
 LONGITUDE: 80°42'44"



LOCATION 15  
 TRUMBULL COUNTY (SR-87)  
 SLM: 2.52 TO 7.05  
 LATITUDE: 41°27'40"  
 LONGITUDE: 80°54'44"



- PORTION TO BE IMPROVED -----
- INTERSTATE HIGHWAY -----
- FEDERAL ROUTES -----
- STATE ROUTES -----
- COUNTY & TOWNSHIP ROADS -----
- OTHER ROADS -----

CALCULATED  
 CMR  
 CHECKED  
 RMB

LOCATION MAPS (TRUMBULL COUNTY)

D04-SP-FY2019  
 (EAST)

**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.

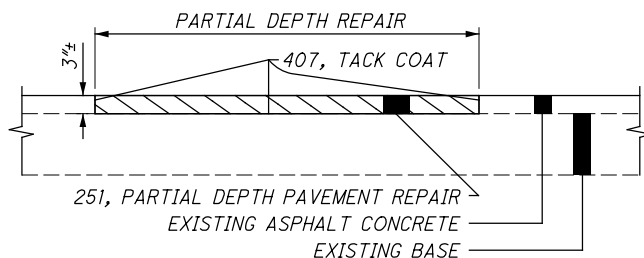
**WORK LIMITS**

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 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)**

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A TYPE I PNEUMATIC TIRE ROLLER AND A STEEL WHEEL ROLLER AS PER 401.13. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

251, PARTIAL DEPTH PAVEMENT REPAIR (441), 10,600 SQ. YD.



**BREAKDOWN OF TOTAL BY LOCATION**

LOCATION 1  
 ATB-534: SR-166 TO IR-90  
 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 5,650 SQ. YD.

LOCATION 7  
 MAH-62: CANFIELD TO CORNERSBURG (Y-TOWN CORP.)  
 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 350 SQ. YD.

LOCATION 8  
 MAH-224: RACON RD. TO MARKET (SR-7)  
 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 1,100 SQ. YD.

LOCATION 9  
 MAH-680: SOUTH AVENUE TO US-224  
 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 800 SQ. YD.

LOCATION 11  
 MAH-7: SR-164 TO WESTERN RESERVE RD.  
 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 400 SQ. YD.

LOCATION 12  
 MAH-170: NEW MIDDLETOWN CORP. TO POLAND CORP.  
 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 350 SQ. YD.

LOCATION 13  
 TRU-422: POR. CO. LINE TO SR-5  
 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 950 SQ. YD.

LOCATION 14  
 TRU-11: MILE POST 19 TO ATB CO. LINE  
 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 500 SQ. YD.

LOCATION 15  
 TRU-87: SR-534 TO SR-45  
 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 500 SQ. YD.

**LOCATION 10 - MAH-422 (FROM SR 616 TO PA LINE)**

THE EXISTING GUTTER ON MAH-422 FROM SLM 7.58 TO SLM 10.14 SHALL BE REPAIRED. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED SECTION WITHIN THE PROJECT LIMITS. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. THE FOLLOWING QUANTITIES SHALL BE USED TO REPAIR THE EXISTING GUTTER.

ITEM 202, GUTTER REMOVED, 1,000 FT  
 ITEM 452, 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QCI, AS PER PLAN, 862 SY

**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:

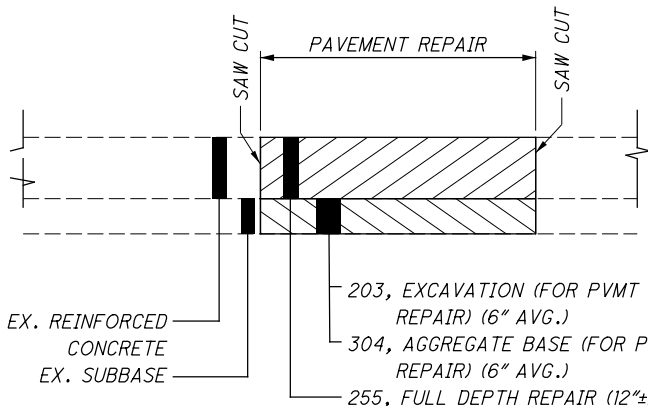
203, EXCAVATION (FOR PAVEMENT REPAIR), 50 CU YD  
 203, EXCAVATION (CONTINGENCY FOR PAVEMENT REPAIR), 90 CU YD

**ITEM 255 - FULL DEPTH REMOVAL AND RIGID REPLACEMENT, CLASS RRCM (LOCATIONS 2-6) MAH-80 EB AT SLM 0.38, MAH-76 (WB LEFT SHOULDER) AT SLM 3.68, AND MAH-76 EB AT SLM 7.34, 7.66, AND 8.45 (INCLUDES EXTRA LOCATIONS IN VICINITY)**

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUTTING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH AND PLACING 12"± CLASS RRCM CONCRETE. 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.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AT THE FOLLOWING LOCATIONS:  
 I-80 EB AT SLM 0.38 64 SY  
 I-76 EB AT SLM 7.34 28 SY (ALL ARE IN MAHONING CO & IN THE DRIVING LANE)  
 I-76 EB AT SLM 7.66 40 SY  
 I-76 EB AT SLM 8.45 28 SY  
 I-76 WB SLM 3.68 115 SY (LEFT SHOULDER) (MILE MARKER 54.62)

ITEM 255, FULL DEPTH REMOVAL AND RIGID REPLACEMENT, CLASS RRCM, 275 SY  
 ITEM 255, FULL DEPTH PAVEMENT SAWING, 800 FT



THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER SHOULD THERE BE A NEED FOR THE REPAIRS AT THE FOLLOWING LOCATIONS : (ALL ARE IN MAHONING CO)

I-76 EB - DRIVING LANE  
 SLM 7.17 64 SY  
 SLM 7.57 28 SY  
 SLM 7.73 80 SY  
 SLM 7.94-7.99 217 SY

I-76 WB - DRIVING LANE  
 SLM 7.95-7.96 136 SY

TOTAL 525 SY

ITEM 255, FULL DEPTH REMOVAL AND RIGID REPLACEMENT, CLASS RRCM, (CONTINGENCY QUANTITY) 525 SY  
 ITEM 255, FULL DEPTH PAVEMENT SAWING, (CONTINGENCY QUANTITY) 1660 FT

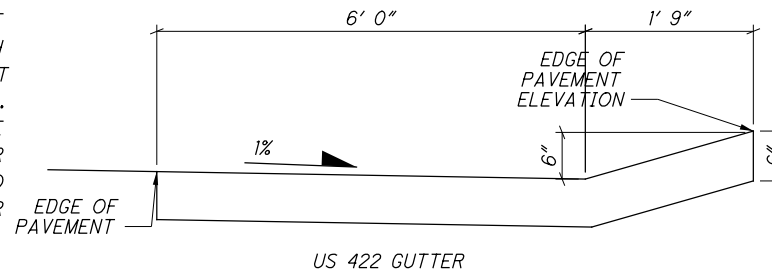
**ITEM 304 - AGGREGATE BASE (FOR PAVEMENT REPAIR)**

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), 50 CU YD  
 304, AGGREGATE BASE (CONTINGENCY FOR PAVEMENT REPAIR), 90 CU YD

**ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QCI, AS PER PLAN**

THIS ITEM SHALL BE USED TO REPAIR THE EXISTING CONCRETE GUTTER ON US-422 IN MAHONING COUNTY. THE PAVEMENT SHALL BE PLACED AS SHOWN IN THE DETAIL BELOW.



**ITEM 621 - RAISED PAVEMENT MARKER REMOVAL**

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED AND SHALL BE USED AS DIRECTED BY THE ENGINEER FOR THE REMOVAL AND DISPOSAL OF EXISTING RAISED PAVEMENT MARKERS THAT ARE WITHIN THE LIMITS OF THE PAVEMENT REPAIRS AS NEEDED.

ALL EQUIPMENT, MATERIALS, AND LABOR REQUIRED TO PERFORM THIS WORK SHALL BE INCLUDED UNDER THE CONTRACT BID PRICE QUANTITY THAT WILL BE CARRIED TO THE GENERAL SUMMARY:

621, RAISED PAVEMENT MARKER REMOVED, 10 EACH

**PAVEMENT MARKINGS**

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED TO BE USED AS DIRECTED BY THE PROJECT ENGINEER TO MATCH EXISTING PAVEMENT MARKINGS.

THE UNIT BID PRICES ON THESE PAY ITEMS WILL NOT BE ADJUSTED AS PER CMS 104.02.D.

ITEM 642 - EDGE LINE, 6" 3 MILES  
 ITEM 642 - LANE LINE, 6" 1 MILE  
 ITEM 642 - STOP LINE 50 FT  
 ITEM 642 - CHANNELIZING LINE, 8" 100 FT  
 ITEM 642 - CENTER LINE 2 MILES

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**GENERAL NOTES**  
**D04-SP-FY2019 (EAST)**  
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**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. ON 2-LANE SECTIONS: A MINIMUM OF ONE TEN FOOT BIDIRECTIONAL LANE SHALL BE MAINTAINED ON THE EXISTING AND COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.

ON 4 OR MORE LANE SECTIONS: A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING AND COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.

2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

3. 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.

4. ALL FULL & PARTIAL DEPTH PAVEMENT REMOVAL & REPLACEMENT OPERATIONS SHALL BE COMPLETED THE SAME DAY THE EXCAVATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE WORK, THE EXCAVATION SHALL BE BACKFILLED WITH FIRM AND UNYIELDING MATERIAL.

5. 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 (1) MILES.

7. ONLY DURING OFF-PEAK PERIODS (i.e. 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. (DOES NOT APPLY TO MAH-680, MAH-76 OR TRU-11)

8. IN ADDITION TO THE REQUIREMENTS OF 614.11 WORK ZONE PAVEMENT MARKINGS, AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH WORK ZONE MARKINGS) ALL LANE, CENTER, STOP OR CHANNELIZING LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS. QUANTITIES FOR SUCH PLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER 614 WORK ZONE PAVEMENT MARKINGS.

9. A QUANTITY OF 20 CU. YDS. OF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.

10. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.

11. THE CONTRACTOR SHALL PLACE THE SIGNS: W8-1 [BUMP] PER OMUTCD 2C.28; W8-11 [UNEVEN LANES] PER OMUTCD 6F.45; AND 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) 20 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.

**LANE CLOSURES (MAH-680, MAH-76 & TRU-11)**

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.

**ITEM 614, MAINTAINING TRAFFIC (TIME LIMITATION ON A DETOUR FOR RAMP FROM I-80 EASTBOUND TO THE OHIO TURNPIKE)**

A MINIMUM OF ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON THE RAMP, EXCEPT FOR A PERIOD NOT TO EXCEED ONE NIGHT (7 PM TO 6 AM), WHEN THE RAMP TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 8. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$5000 FOR EACH HOUR THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

**DETOUR NOTIFICATION (ODOT & OHIO TURNPIKE)**

THE CONTRACTOR SHALL ADVISE THE ODOT DISTRICT OFFICE (330-786-3148) & THE OHIO TURNPIKE (440-971-2016) EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTE SHOULD BE IN EFFECT. ALL WORK ZONE DEVICES REQUIRED SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR.

**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
CANFIELD FAIR AUG 28-SEP 2	

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, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)**

NOTICE OF CLOSURE SIGNS (W20-H13), SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
ROAD & RAMP CLOSURE	>= 2WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

WILL BE  
CLOSED  
FOR DAYS  
INFO: 330-786-2208

W20-H13-60

**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	>= 2WEEKS	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.

**SEQUENCE OF CONSTRUCTION**

THE CONTRACTOR SHALL COMPLETE THE REPAIRS ON MAH-80 EB AT SLM 0.83 AND MAH-76 EB AT SLM 7.34, 7.66, AND 8.45 FIRST (LOCATIONS 2-5). THE REMAINING LOCATIONS SHALL FOLLOW.

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**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 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.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING 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. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. 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 200 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 AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

**ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN**

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A PORTABLE CHANGEABLE MESSAGE SIGN, THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCE OF 800 FEET AND 650 FEET RESPECTIVELY.

EACH SIGN SHALL BE TRAILER MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM TO DIM THE SIGN DURING DARKNESS AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHOULD BE DELINEATED.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE PCMS SHOULD NOT BE LOCATED IN THE MEDIAN OF THE HIGHWAY UNLESS IT IS PROTECTED FROM BOTH DIRECTIONS OF TRAFFIC. THE PCMS SHALL BE LOCATED. IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE THE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS WILL BE OFF. ADDITIONALLY WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED, FACING AWAY FROM ALL TRAFFIC AND SHALL DISPLAY ONE OR MORE TYPE G YELLOW REFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE CONTRACTOR. A LIST OF ALL PROPOSED PREPROGRAMMED MESSAGES WILL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE LINE PRESENTATION FORMATS WITH UP TO OF SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DE-ACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL [IN ACTIVE CELLULAR AREAS] ALLOW REMOTE SIGN ACTIVATION, DEACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF 614.07. THE CONTRACTOR SHALL PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC ACCRUED BY THE DEPARTMENT WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24 HOURS PER DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THEIR USE. THE REQUIREMENT TO FURNISH, INSTALL, MAINTAIN AND REMOVE A PCMS UNIT ON THIS PROJECT SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES AS OUTLINED IN 614.02.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

614 PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN, 11 SIGN MONTH

**ITEM 632 - DETECTOR LOOP, AS PER PLAN**

THE CONTRACTOR SHALL CONTACT THE DISTRICT OFFICE (330-786-3146) THREE WORKING DAYS PRIOR TO ANY PLANING OR TRENCHING AT THE INTERSECTION. SHOULD THE CONTRACTOR NEED TO ACCESS THE CONTROLLER - CONTACT ODOT TRAFFIC, MICHELLE CHANEY (330-786-2267) TO UNLOCK THE CABINET THREE WORKING DAYS PRIOR TO DISTURBING THE LOOP. THE CONTRACTOR SHOULD ALSO CONTACT THE CITY OF YOUNGSTOWN TRAFFIC (330-742-8890).

DETECTOR LOOP LOCATIONS:

- US-62
- US-422
- SR-7
- SR-170
- SR-224

LOOP DETECTORS DISTURBED BY PAVEMENT PLANING OR TRENCHING SHALL BE ABANDONED IN PLACE. THE LOOP DETECTOR WIRE WILL BE CUT INTO THE PAVEMENT AFTER THE PROPOSED SURFACE COURSE HAS BEEN PLACED. ALL STOP LINE INDUCTANCE DETECTOR LOOPS SHALL BE THE POWERHEAD CONFIGURATION SHOWN ON TC-82.10. THE WIDTH SHALL BE AS SPECIFIED ON TC-82.10 AND THE LENGTH SHALL BE AS SPECIFIED BELOW. THE LOCATION OF THESE LOOPS SHALL BE SUCH THAT THE POWERHEAD IS LOCATED AT THE STOP LINE, NOT PAST IT. ALL DILEMMA ZONE INDUCTANCE DETECTOR LOOPS CALLED FOR IN THE PLANS SHALL BE THE ANGULAR DESIGN DETECTION (ADD) LOOP AS SHOWN ON TC-82.10. DIMENSIONS SHALL BE AS SPECIFIED ON TC-82.10 AND THE LOOP SHALL BE PLACED AT THE SAME LOCATION AS THE EXISTING LOOPS.

THE QUANTITIES LISTED BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY. THE NEW LOOP DETECTOR WIRES SHALL BE RUN INTO THE EXISTING CONTROL BOX OR THE EXISTING PULLBOX. INCLUDED IN THIS ITEM IS THE Poured EPOXY TYPE CABLE SPLICE KIT (CONFORMING TO 725.15E) THAT MUST BE USED IN MAKING THESE CONNECTIONS. ALL NECESSARY MATERIAL, LABOR, SPLICE KITS AND EQUIPMENT SHALL BE INCIDENTAL TO PAYMENT OF THESE ITEMS.

632 DETECTOR LOOP, AS PER PLAN, 10 EACH

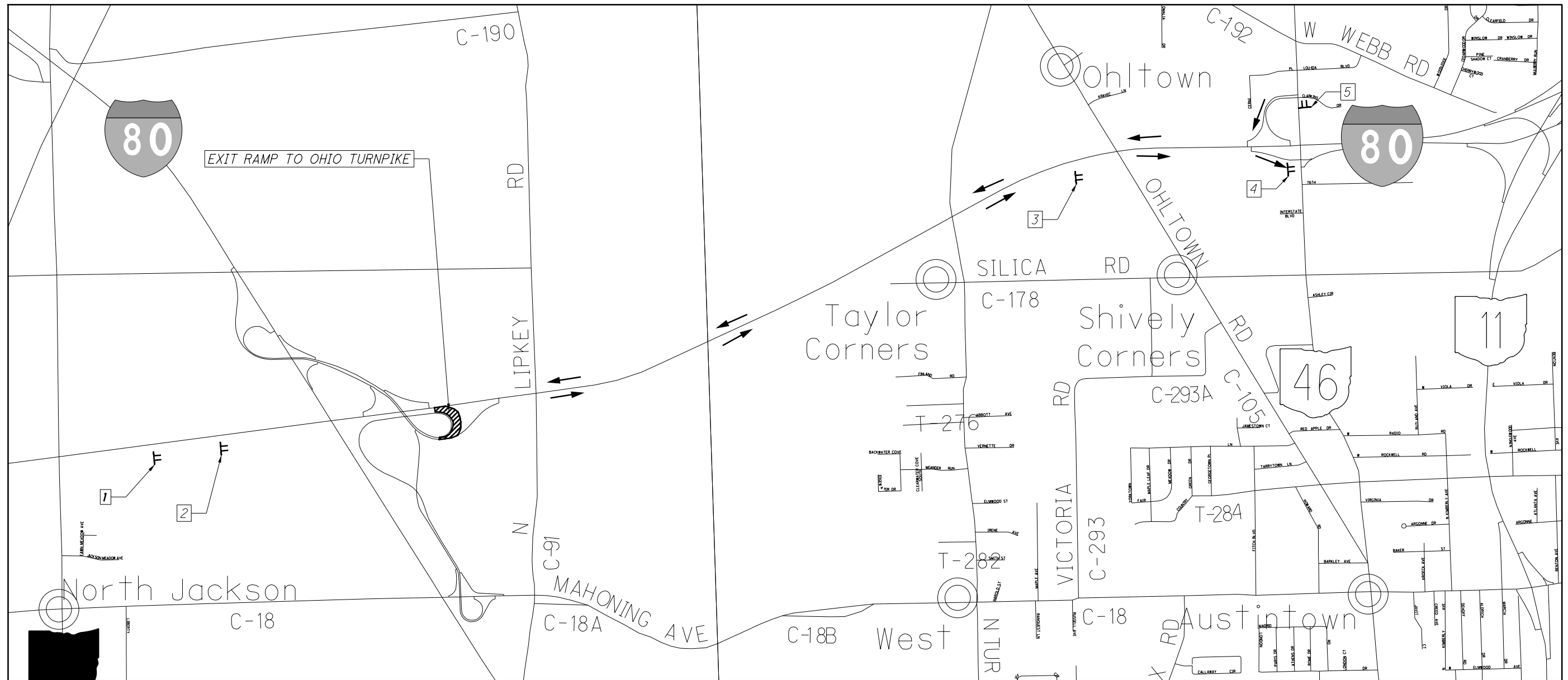
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MAINTENANCE OF TRAFFIC

D04-SP-FY2019  
(EAST)

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**DETOUR PLAN FOR MAH-80-0.38 LOCATION 5  
FOR RAMP FROM I-80 EAST TO OHIO TURNPIKE**

➔ OFFICIAL DETOUR ROUTE: SR 46 / I-80 WESTBOUND

 CLOSE RAMP AS PER MT-98.29

**1** PORTABLE CHANGEABLE MESSAGE SIGN  
MESSAGES:  
1 - TURNPIKE EXIT CLOSED      2 - USE SR 46 TO 80 WB

**2** PORTABLE CHANGEABLE MESSAGE SIGN  
MESSAGES:  
1 - TURNPIKE EXIT CLOSED      2 - USE SR 46 TO 80 WB

**3** PORTABLE CHANGEABLE MESSAGE SIGN  
MESSAGES:  
1 - DETOUR TO TURNPIKE      2 - NEXT EXIT

**4** PORTABLE CHANGEABLE MESSAGE SIGN  
MESSAGES:  
1 - LEFT TO TURNPIKE

**5** PORTABLE CHANGEABLE MESSAGE SIGN  
MESSAGES:  
1 - LEFT TO TURNPIKE

CALCULATED  
JRF  
CHECKED  
RMB

**MAINTENANCE OF TRAFFIC DETOUR PLAN**

**D04-SP-FY2019  
(EAST)**



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SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
5	6	7									01/NFP/PV	EXT	TOTAL				
<b>ROADWAY</b>																	
1,000											1,000	202	32600	1,000	FT	GUTTER REMOVED	
90											90	203	10000	90	CY	EXCAVATION (CONTINGENCY FOR PAVEMENT REPAIR)	
50											50	203	10000	50	CY	EXCAVATION (FOR PAVEMENT REPAIR)	
<b>EROSION CONTROL</b>																	
											1,000	832	30000	1,000	EACH	EROSION CONTROL	
<b>PAVEMENT</b>																	
10,600											10,600	251	01000	10,600	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	
275											275	255	10500	275	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS RRCM	
525											525	255	10500	525	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS RRCM (CONTINGENCY QUANTITY)	
800											800	255	20000	800	FT	FULL DEPTH PAVEMENT SAWING	
1,660											1,660	255	20000	1,660	FT	FULL DEPTH PAVEMENT SAWING (CONTINGENCY QUANTITY)	
90											90	304	20000	90	CY	AGGREGATE BASE (CONTINGENCY FOR PAVEMENT REPAIR)	
50											50	304	20000	50	CY	AGGREGATE BASE (FOR PAVEMENT REPAIR)	
862											862	452	10011	862	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN	
<b>TRAFFIC CONTROL</b>																	
10											10	621	54000	10	EACH	RAISED PAVEMENT MARKER REMOVED	
3											3	642	00094	3	MILE	EDGE LINE, 6"	
1											1	642	00194	1	MILE	LANE LINE, 6"	
2											2	642	00290	2	MILE	CENTER LINE	
100											100	642	00390	100	FT	CHANNELIZING LINE, 8"	
50											50	642	00490	50	FT	STOP LINE	
<b>TRAFFIC SIGNALS</b>																	
				8							8	632	26501	8	EACH	DETECTOR LOOP, AS PER PLAN	
<b>MAINTENANCE OF TRAFFIC</b>																	
	200										200	614	11110	200	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
	20										20	614	12460	20	EACH	WORK ZONE MARKING SIGN	
	10										10	614	13000	10	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
				11							11	614	18601	11	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	
<b>INCIDENTALS</b>																	
											LS	614	11000	LS		MAINTAINING TRAFFIC	
											LS	624	10000	LS		MOBILIZATION	

**GENERAL SUMMARY**

**D04-SP-FY2019 (EAST)**

