

LOCATION MAP

LATITUDE: 39°32'30" LONGITUDE: 84°21'30"



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

DESIGN DESIGNATION

| | | | | |
|-----------------------------------|--------------------------------|----------------|----------------|----------------|
| | 22.55 to 23.43 | 23.43 to 24.47 | 24.47 to 24.94 | 24.94 to 25.69 |
| CURRENT ADT (2021) | 11,500 | 11,500 | 11,500 | 11,500 |
| DESIGN YEAR ADT (2033) | 12,000 | 12,000 | 12,000 | 12,000 |
| DESIGN HOURLY VOLUME (2033) | 1,200 | 1,400 | 1,200 | 1,200 |
| DIRECTIONAL DISTRIBUTION | 0.54 | 0.55 | 0.57 | 0.56 |
| TRUCKS (24 HOUR B&C) | 0.1 | 0.11 | 0.11 | 0.12 |
| DESIGN SPEED | 50 MPH (35 MPH CURBED SECTION) | | | |
| LEGAL SPEED | 50 MPH (35 MPH CURBED SECTION) | | | |
| DESIGN FUNCTIONAL CLASSIFICATION: | 03 PRINCIPAL ARTERIAL (URBAN) | | | |
| NHS PROJECT | YES | | | |

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig



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

City of Middletown is a Non-Member

PLAN PREPARED BY:
CITY OF MIDDLETOWN
ENGINEERING DEPARTMENT
ONE DONHAM PLAZA
MIDDLETOWN, OHIO 45042

ENGINEERS SEAL:



SIGNED: *Gabriel Bitar*
DATE: 10/21/2020

| STANDARD CONSTRUCTION DRAWINGS | | SUPPLEMENTAL SPECIFICATIONS | | SPECIAL PROVISIONS | |
|--------------------------------|---------|-----------------------------|---------|--------------------|----------|
| BP-3.1 | 1/17/20 | CITY STANDARD DRAWINGS | | 800 | 1/15/21 |
| | | ST001 | 5/1/19 | 821 | 4/20/12 |
| | | ST004 | 8/13/19 | 832 | 10/19/18 |
| MT-95.30 | 7/19/19 | | | 875 | 1/18/19 |
| MT-95.31 | 7/19/19 | | | 921 | 4/20/12 |
| MT-95.32 | 4/19/19 | | | | |
| MT-95.45 | 1/17/20 | | | | |
| MT-95.50 | 7/21/17 | | | | |
| MT-97.12 | 1/20/17 | | | | |
| MT-99.20 | 4/19/19 | | | | |
| MT-105.10 | 1/17/20 | | | | |
| MT-101.90 | 7/17/20 | | | | |
| TC-65.10 | 1/17/18 | | | | |
| TC-65.11 | 7/21/17 | | | | |
| TC-71.10 | 1/19/18 | | | | |
| TC-82.10 | 7/19/19 | | | | |

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

BUT - SR 73 - 22.55

CITY OF MIDDLETOWN

BUTLER COUNTY

INDEX OF SHEETS:

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PROJECT DESCRIPTION

RESURFACING OF 3.14 MILES OF S.R. 73 FROM S.R. 4 (NELBAR/GERMANTOWN ROAD) INTERSECTION TO THE CITY LIMITS AT BUTLER / WARREN COUNTY LINE

| | |
|--|-------|
| PROJECT EARTH DISTURBED AREA: | N/A * |
| ESTIMATED CONTRACTOR EARTH DISTURBED AREA: | N/A * |
| NOTICE OF INTENT EARTH DISTURBED AREA: | N/A * |

* (MAINTENANCE PROJECT)

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS 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: *Tony K Capbell*
DATE: 12/14/2020 DISTRICT DEPUTY DIRECTOR

APPROVED: _____
DATE: _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E 190798

PID NO. 107126

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT NONE

BUT - SR 73 - 22.55

UTILITIES

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

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

WATER AND SANITARY
CITY OF MIDDLETOWN
BRIAN ADAMS
ONE DONHAM PLAZA
MIDDLETOWN, OH 45042
(513) 425-7766

TELEPHONE
AT&T-OHIO
HOWARD LAUDERMILK
3233 WOODMAN DRIVE
DAYTON, OH 45420
(937) 296-3588

ELECTRIC
DUKE ENERGY-ELECTRIC
AMANDA BRAUN
PO BOX 960, ROOM 467 ANNEX
CINCINNATI, OHIO 45201
(513) 458-3804

AT&T TRANSMISSION
C/O MCG FIBER
CHAD HARKNESS
155 COMMERCE PARK DRIVE
SUITE #1
WESTERVILLE, OH 43082
(614) 392-2873

GAS
DUKE ENERGY-GAS
MARK BRANSCUM
139 E. 4TH STREET
CINCINNATI, OHIO 45202
(513) 287-2517

CABLE
CHARTER COMMUNICATIONS
KENT RIEGER
11252 CORNELL PARK DR.
CINCINNATI, OHIO 45202
(513) 386-5499

EXISTING PLANS

EXISTING PLANS ENTITLED WAR-73-22.57 / WAR-73-0.00 AND BUT-73-36.253 / WAR-73-00.000 MAY BE INSPECTED IN THE ODOT DISTRICT 8 OFFICE IN LEBANON, OHIO.

STATIONING AND LOCATIONS

THE HORIZONTAL ALIGNMENT AND STATIONING INDICATED ON THESE PLANS ARE A RECREATION OF THE EXISTING SR-73 CENTERLINE BASED ON EXISTING PLANS.

STATIONING AND LOCATIONS INDICATED ON THE PLANS ARE APPROXIMATE. ALL LOCATIONS AND ITEMS CALLED OUT BY STATION ARE SUBJECT TO ADJUSTMENT IN THE FIELD AS DIRECTED BY THE ENGINEER.

CITY STANDARDS AND NOTES

THE STANDARDS SHOWN IN THE CITY ROADWAY STANDARDS AND SANITARY AND STORM SEWER STANDARDS ARE TO BE CONSIDERED THE MINIMUM REQUIREMENTS. SEAL ASPHALT PAVEMENT EDGES PER ODOT ITEM 401.15 (HOT APPLIED JOINT SEALER, 4" UNIFORM WIDTH).

ADDITIONALLY SEAL ALL CASTINGS INCLUDING BUT NOT LIMITED TO MONUMENTS, MANHOLES, WATER VALVES, CATCH BASINS, CURB INLETS.

PAYMENT FOR JOINT SEALER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 441.

MODIFICATIONS TO THESE STANDARDS TO BE ONLY AS DIRECTED BY THE ENGINEER.

WORK LIMITS

THE WORK LIMITS FOR PHYSICAL CONSTRUCTION ARE TO THE BACK OF CURB OR TO THE EDGE OF THE EXISTING SHOULDER. 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.

PROTECTING CITY STREETS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE CITY STREETS FROM EXCESS ASPHALT, ASPHALT EMULSIONS AND TAR DEPOSITS.



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 OR LABELED CONTINGENCY 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.

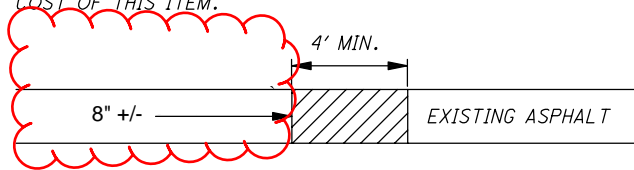
CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, OPERATION OF POWER-OPERATED CONSTRUCTION-TYPE DEVICES TIMES SHALL BE IN ACCORDANCE WITH LOCAL NOISE ORDINANCES, IN ADDITION, DO NOT OPERATE ANY DEVICE AT ANY TIME IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

ITEM 253 - PAVEMENT REPAIRS, AS PER PLAN

THIS WORK SHALL CONSIST OF FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT AS SHOWN HEREIN, AT THE DIRECTION OF THE ENGINEER. THIS OPERATION SHALL BE PERFORMED PRIOR TO PLANING OF THE ROAD.

THE ENGINEER WILL DESIGNATE THE LOCATION AND LIMITS OF AREAS TO BE REPAIRED UNDER THIS ITEM ONLY AFTER HE/SHE HAS DETERMINED THAT THE REPAIR CANNOT BE MADE UNDER "ITEM 254 - PATCHING PLANED SURFACES", WHERE APPLICABLE. THE PAVEMENT SHALL BE REMOVED IN A MANNER SUCH THAT NEAT VERTICAL FACES ARE ESTABLISHED FOR THE ENTIRE PERIMETER OF THE REPAIR AREA. ANY NEAT VERTICAL FACE (INCLUDING SAW CUTTING) SHALL BE INCLUDED IN THE COST OF THIS ITEM.



THIS ITEM SHALL COVER
ITEM 202 - PAVEMENT REMOVED, ASPHALT
ITEM 301 - BITUMINOUS AGGREGATE BASE

WORK SHALL BE PERFORMED IN ACCORDANCE WITH ITEM 253.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN 1500 CY

ITEM 254 - PAVEMENT PLANING ASPHALT CONCRETE, AS PER PLAN

THE PLANING SHALL BE SCHEDULED SO AS TO BE COVERED BY INTERMEDIATE COURSE PRIOR TO REOPENING TO TRAFFIC. THE COST OF THE ABOVE SHALL BE INCLUDED IN THE UNIT BID FOR RESPECTIVE ITEMS. A DISCINCENTIVE IN THE AMOUNT OF \$3,300 SHALL BE ASSESSED FOR EACH DAY, OR PORTION THEREOF, A PLANED SURFACE IS OPEN TO TRAFFIC.

ITEM 254 - PATCHING PLANED SURFACES

PATCH AREAS OF THE PLANED SURFACE THAT THE ENGINEER DESIGNATES TO HAVE SPALLING OR DISLODGED UNSOUND PAVEMENT.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 254 - PATCHING PLANED SURFACE 6780 SY

ITEM 611 - MANHOLE ADJUSTED TO GRADE
ITEM 611 - CATCH BASIN ADJUSTED TO GRADE

THIS WORK SHALL CONSIST OF ADJUSTING EXISTING MANHOLES AND CATCH BASINS TO GRADE PRIOR TO THE APPLICATION OF THE SURFACE COURSE AS DIRECTED BY THE ENGINEER.

A QUANTITY HAS BEEN CALCULATED IN THE SUB-SUMMARIES AND CARRIED TO THE GENERAL SUMMARY.

ITEM 621 - RAISED PAVEMENT MARKERS REMOVED, AS PER PLAN

AN ESTIMATED QUANTITY OF 552 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY. EXISTING RAISED PAVEMENT MARKERS SHALL NOT BE REMOVED UNLESS MILLING IS INTENDED WITHIN TWO CALENDAR DAYS.

ITEM 632 - DETECTOR LOOP, AS PER PLAN

VEHICLE LOOP DETECTORS SHALL BE INSTALLED IN THE INTERMEDIATE COURSE BEFORE THE SURFACE COURSE OF THE OVERLAY IS PAVED. THE INSTALLATION OF POURED EPOXY INSULATED SPLICES BETWEEN THE LOOP DETECTOR WIRES AND THE LOOP DETECTOR LEAD IN CABLE SHALL BE CONSIDERED AS INCIDENTAL TO THIS ITEM OF WORK. NO SEPARATE PAYMENT FOR THESE SPLICES WILL BE MADE. NO PAYMENT SHALL BE MADE FOR ANY LOOP NOT INSTALLED ACCORDING TO SPECIFICATIONS.

INSTALLATION OF POURED EPOXY INSTALLED SPLICES BETWEEN THE LOOP DETECTOR WIRES AND THE EXISTING LOOP DETECTOR LEAD IN CABLE SHALL BE CONSIDERED AS INCIDENTAL TO THIS ITEM OF WORK. NO SEPARATE PAYMENT FOR THESE SPLICES WILL BE MADE.

DETECTOR LOOPS SHALL BE PLACED IN ACCORDANCE WITH ODOT TRAFFIC ENGINEERING MANUAL SECTION 420-5.2, DETECTION OF MOTORCYCLES AND BICYCLES.

THIS WORK SHALL BE PERFORMED AT THE INTERSECTION OF S.R. 73 AND BREIEL BLVD. FOR FURTHER DETAILS SEE SHEET 25.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 632 - DETECTOR LOOP, AS PER PLAN 12 EACH
ITEM 632 - DETECTOR LOOP TIE IN 12 EACH

ITEM 638 - VALVE BOXES ADJUSTED TO GRADE

THE CONTRACTOR SHALL RESET EXISTING VALVE BOXES TO ESTABLISHED GRADE PRIOR TO THE APPLICATION OF THE SURFACE COURSE.

A QUANTITY HAS BEEN CALCULATED IN THE SUB-SUMMARIES AND CARRIED TO THE GENERAL SUMMARY.

ITEM 875 - LONGITUDINAL JOINT ADHESIVE

IT IS EXPECTED THAT PAVING WILL RESULT IN COLD JOINTS. ITEM 875 LONGITUDINAL JOINT ADHESIVE SHALL BE APPLIED TO EACH COLD JOINT.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CALCULATED IN THE SUB-SUMMARY BASED ON APPLICATION RATE OF 1 LB PER 4 FEET, AND CARRIED TO THE GENERAL SUMMARY.

SURFACE SMOOTHNESS REQUIREMENTS FOR PAVEMENTS

PROPOSAL NOTE (PN 420) SHALL APPLY TO THIS PROJECT.

COST OF ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO MEET THIS SPECIFICATION SHALL BE INCLUDED IN THE CONTRACT UNIT OR LUMP SUM PRICE FOR THE APPLICABLE PAVEMENT ITEMS.

MANHOLES AND VALVES ADJUSTED TO GRADE (PRIVATELY OWNED)

ALL MANHOLES AND VALVES ENCOUNTERED IN AREAS THAT REQUIRE GRADE ADJUSTMENT WILL BE PERFORMED PRIOR TO THE APPLICATION OF THE SURFACE COURSE BY THE UTILITY OWNER. CONTACT THE UTILITY OWNER 2 WEEKS PRIOR TO WHEN THE ADJUSTMENTS ARE TO BE COMPLETED.

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CALCULATED
GKB
CHECKED
REN
CITY OF MIDDLETOWN
DIVISION OF ENGINEERING
ROBERT E. NICOLLS, P.E.



GENERAL NOTES

BUT - SR 73 - 22.55