



OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 12
5500 TRANSPORTATION BLVD. • GARFIELD HGTS., OH 44125 • 216-581-2100

Environmental Document

for

GEA US 322 07.78 PID 106261

Environmental Document Level: D1

Approved: 7/12/2019

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The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by ODOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 11, 2015, and executed by FHWA and ODOT.

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Project Type

Please check all of the following actions that apply (Must check at least one):

(13) Actions described in 23 CFR 771.117 (c)(26), (c)(27), and (c)(28) that do not meet the constraints listed in 23 CFR 771.117(e). (a) Project types that exceed thresholds in Appendix A (b) Project types that exceed thresholds in Appendix B



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General Project Information

Project, Cost Schedule and Work Limits

Environmental Document Level:	D1
PID:	106261
Project Name:	GEA US 322 07.78
Project Sponsor:	ODOT SPONSORING AGENCY
ODOT District:	12
Funding Source:	Federal
Private Funding:	No
Local Public Funding:	No
STIP Reference #:	2018AM04ID0169FDCO
The next phase of the proposed project is listed on the STIP	Yes
The current cost estimate is in line with existing federal procedures for Ohio STIP Amendments and Administration Modifications	Yes
Planning and Engineering:	\$550,286.00
Right of Way:	\$289,000.00
Construction:	\$1,760,560.00
Other:	\$0.00
An Interchange Modification/Justification/Operations Study (IMS/IJS/IOS) was completed	No

Project Description:

The Ohio Department of Transportation proposes to improve the US 322 (Mayfield Road) and Auburn Road intersection in Munson Township, Geauga County. Proposed work includes constructing dedicated 11-foot wide left turn lanes on each leg of the intersection and improving signal head visibility. Work includes widening both US 322 and Auburn Road to 12-foot lanes in each direction.

Permanent and temporary right-of-way is required for this project. Permanent right-of-way includes one relocation in the northwest quadrant.

Traffic will be maintained primarily using part width construction. Northbound Auburn will be closed during one phase of construction. A detour will be provided.



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The project proposes minor stream and wetland impacts. Moreover, 1.076 acre of suitable wooded habitat for the Federally-listed Indiana bat (*Myotis sodalists*) and Northern long-eared bat (*Myotis septentrionalis*) will be impacted by the project.

No other environmental, hazardous materials, Section 4(f), Section 6(f), cultural resources, noise, air quality, or underserved population impacts will result from this project.

The environmental document and associated studies are being approved using Stage 2 Design. A copy of the plans is included in the project file.

Limits of Proposed Work: US-322 and Auburn Road
Start (SLM): 7.68
End (SLM): 7.88
Total Work Length (Miles): 0.20
 Roadway Character

Roadway Character

Route Number: CR00004

Functional Classification: Major Collector (Rural)
Current Average Daily Traffic: 10100
Current Average Daily Traffic Year: 2020
Design Year Average Daily Traffic: 10900
Design Average Daily Traffic Year: 2040
Daily Hourly Volume: 1090
Truck %: 1
Setting: Suburban
Topography: Level

	Existing:	Proposed:
Design Speed (MPH):	45	45
Legal Speed (MPH):	45	45
Number of Lanes:	2	2
Type of Lanes:	through	through turn
Pavement Width (ft):	25	35
Shoulder Width (ft):	2	4
Median Width (ft):	n/a	n/a
Sidewalk Width (ft):	n/a	n/a



Route Number: US00322

Functional Classification: Principal Arterial - Other (Rural)

Current Average Daily Traffic: 7400

Current Average Daily Traffic Year: 2020

Design Year Average Daily Traffic: 8250

Design Average Daily Traffic Year: 2040

Daily Hourly Volume: 830

Truck %: 1

Setting: Suburban

Topography: Level

	Existing:	Proposed:
Design Speed (MPH):	45	45
Legal Speed (MPH):	45	45
Number of Lanes:	2	3
Type of Lanes:	through	through turn
Pavement Width (ft):	27	35
Shoulder Width (ft):	2	4
Median Width (ft):	n/a	n/a
Sidewalk Width (ft):	n/a	n/a

No bridge data for PIDs associated with this CE Form

Maintenance of Traffic During Construction

A roadway, bridge or ramp closure is required Yes

A temporary bridge or roadway is proposed No

A detour is required for the proposed project Yes

Access for local through traffic will be provided with appropriate signage Yes

Provisions for through-traffic dependent businesses will be incorporated into project design Yes

Provisions to accommodate any local special events or festivals will be incorporated into project design Yes

The proposed MOT substantially impacts sensitive environmental resources No

Substantial controversy is associated with the proposed MOT No

Coordination has been initiated and/or completed with local emergency services, schools, public institutions/facilities, etc. Yes



Remarks:

Using part width construction techniques one lane of traffic will be maintained in each direction on US 322 throughout construction. Southbound Auburn Road traffic will be maintained at all times during construction. Northbound Auburn Road traffic will be detoured during one phase of construction. The northbound directional detour was determined in consultation with the local fire department. Access will be maintained to all properties during construction.

County and township emergency services and law enforcement were invited to both public meetings. Several officials attended the meetings.

Are there any Environmental Commitments? Yes

Right of Way and Utility Involvement

The project requires Permanent Right-of-Way Yes

The project requires Permanent Easement(s) Yes

The project requires Temporary Right-of-Way Yes

Number of parcels impacted by Permanent Right-of-Way: 9

Right of Way and Utility Involvement

Number of parcels impacted by Temporary Right-of-Way: 12

Approximate acreage of Permanent Right-of-Way needed: 0.529

Approximate acreage of Temporary Right-of-Way needed: 0.672

Electrical lines, gas lines, water lines, sewer lines, phone lines or other utilities exist in the project area Yes

Large scale transmission facilities are located within the project area No

Private utility easements are located within the project area Yes

The existing private utility easement will be impacted by the project Yes

Coordination with identified utilities has been initiated and/or completed Yes

Remarks:

Permanent and temporary right-of-way will be required for this project.

Utility coordination was initiated with letters sent on 3/15/2019. Utilities in the project area include:

Windstream, Charter Communications/Spectrum, G4S Technology, LLC, Cleveland Electric Illuminating Company, Dominion Energy Ohio, and Orwell Trumbull Pipeline & Cobra Pipeline



Purpose & Need

Purpose & Need

Project History:

The intersection of GEA 322 (Mayfield Road) and Auburn Road in Munson Township, Geauga County, Ohio ranked 19th in the Ohio Department of Transportation's (ODOT's) 2015 prioritized highway safety improvement program (HSIP) for rural intersections in 2015. The ranking compares actual crash rates at specific intersections to crash rates for similar intersection types across Ohio. In 2017, ODOT approved a safety study for the intersection. The purpose of the study was to evaluate potential countermeasures to reduce the crash frequency and severity at the US 322/Auburn Road intersection. GEA 322 (Mayfield Road) is classified as a rural minor arterial and Auburn Road is classified as a rural major collector. Both roads have a posted speed limit of 45 mph.

Purpose Statement:

The purpose of the project is to mitigate the safety issues at the intersection of US 322 and Auburn Road that were identified in the 2017 ODOT Safety Study.

Need Element(s):

Safety

The existing intersection is a signalized intersection with 2-phase operation and two-lane roadway segments on all approaches. The intersection ranked 19th on the *ODOT 2015 Highway Safety Improvement Program*. There are residences adjacent to the intersection to the north and utility poles and significant slopes to the south. Eastbound vehicles travel uphill (grade +4.64%) as they approach the intersection. Approximately 6% of the traffic on the West Leg of US 322 consists of truck traffic based on 2016 peak period turning movement counts. Existing peak hour traffic volumes are relatively balanced across all legs of the intersection. Approximately 14% of the peak period traffic at the intersection consists of left-turning vehicles. Through vehicles were observed passing left-turning vehicles on the right to continue through the intersection, creating additional conflicts for opposing left-turning vehicles.

There were 24 crashes at the intersection between January 1, 2013 and December 31, 2015. Ten crashes resulted in injuries, which is higher than the statewide average for non-freeway facilities on the state system. The most frequent crash types during this time period were left-turn, rear end, and angle. Based on an analysis of the crash patterns between 2013 and 2015, the safety study concluded that a lack of left-turn lanes and congestion were the primary factors contributing to the left-turn and rear-end crashes, while poor signal head visibility was the primary factor contributing to the angle crashes at the intersection.

Goals and Objectives:

n/a

Summary Statement:

The purpose of the project is to mitigate the safety issues at the intersection of US 322 and Auburn Road that were identified in the 2017 ODOT Safety Study. The project is needed due to the high number of crashes that have occurred at this location.

Logical Termini and Independent Utility:

The logical termini for the project are the intersection influence area on all approaches to the GEA 322/Auburn Road intersection. The improvements proposed as part of this project are considered a single and complete project that meet the independent utility test. In addition, the project would not have a negative effect on any other planned projects.



Alternatives

Alternatives

Discuss No Build Alternative:

The No Build Alternative involves routine maintenance only. This alternative does not address the crashes and turning queues. The No Build does not meet the project's Purpose and Need.

Was a Feasibility Study completed?

Yes

Date Feasibility Study was approved:

10/09/2018

Was an Alternative Evaluation Report (AER) completed?

No

Alternatives Considered

Name	Description	Reason Dismissed	Preferred Alternative
No Build	routine maintenance only	does not address crashes or queues	No
Build	safety study countermeasure, add dedicated left turn lanes on each leg of intersection	not dismissed	Yes

Discuss Reasons Alternative Identified as Preferred was selected:

A Feasibility Study was prepared to further evaluate the countermeasures recommended in the 2017 Safety Study. The purpose of the FS was to review and evaluate the survey, utility location, right-of-way limits, known environmental resources and drainage to develop an alignment to address the safety issues and minimize impacts to these features.

The safety issues defined in the Safety Study and the close proximity of the various environmental, utility, & right-of-way features did not warrant development of multiple build alternatives.

The Build Alternative addresses the crashes and congestion created by turning queues and therefore meet the project's Purpose & Need.



Air

Mobile Source Air Toxics (MSATs)

Sensitive Areas are located within approximately 500' of the proposed project area Yes

The proposed project is listed as a C1 in ODOT's CE Guidance and/or falls under 40 CFR 93.126 Yes

Remarks:

This project does not add capacity, a new interchange, or a new road on new alignment. This project only slightly modifies an existing intersection. Hence, this project will not result in any meaningful changes in traffic volume, vehicle mix, location of the existing facility, or any other factor that would cause an increase in emissions impacts relative to the no-build alternative. As such, FHWA has determined that this project will generate minimal air quality impacts for Clean Air Act criteria pollutants and has not been linked with any special MSAT concerns. Consequently, this effort is exempt from analysis for MSATs.

Particulate Matter 2.5 (PM2.5)

The proposed project is in an air quality non-attainment or maintenance area No

Remarks:

The subject project is in Geauga County which not in a PM2.5 maintenance or non-attainment area, no PM2.5 analysis is required.

Carbon (CO)

The State of Ohio is in attainment for CO at this time and no coordination or analysis is required

Ozone

The proposed project is in an Ozone non-attainment or maintenance area Yes

The proposed project is listed on the TIP Yes

Remarks:

Gauga County is in an ozone maintenance or non-attainment area. However, because the project is in the STIP, ozone is addressed. The project's design concept and scope have not changed significantly since the project's inclusion on the STIP per 40 CFR 93.115.

Environmental Commitments

Are there any environmental commitments? No



Noise

Noise

Noise Sensitive Areas located within approximately 500' of the proposed project area	Yes
Noise Analysis conducted	No
The proposed project is a Type I project	Yes
The proposed project constructs a roadway on new location	No
The proposed project significantly changes the existing roadway's horizontal or vertical alignment	No
The proposed project adds capacity (thru travel lanes)	No
The proposed project adds an auxiliary lane(s)	No
The proposed project negatively affects shielding of an existing roadway	No
The proposed project restripes existing pavement for an added thru lane or auxiliary lane	No
The proposed project adds or substantially alters an existing weigh station, rest stop, rideshare lot, or toll plaza	No
The proposed project causes a major change in vehicle mix	No

Remarks:

There are twenty-six residences within 500 feet of the project area. No noise analysis is required because the project is not moving travel lanes significantly closer (50%) to noise sensitive areas and the project is not adding capacity.

Environmental Commitments

Are there any environmental commitments?	No
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ESA

Does the project require any Permanent ROW or Easement?: Yes

ESA

ESA Screening Report was completed by District Staff No

Date of ESA Screening IOC from OES: 07/12/2019

Do any sites require a Phase 1 ESA, Phase 2 ESA, or plan note according to the IOC from OES? No

Remarks:

Lawhon & Associates, Inc. conducted Regulated Materials Review for the project corridor in September 2018 which was conducted in accordance with the Ohio Department of Transportation Office of Environmental Services (ODOT-OES) Regulated Materials Review Manual (2018). As a result of this review, none of the sites warranted further site assessment or special material management. Based on the answers to Questions 1 & 2 no formal clearance by ODOT is required.

According to the IOC from OES does the project require any Environmental Commitments (plan notes and/or other coordination)? No



Cultural Resources

Cultural Properties Present

Please describe all of the efforts made to identify Historic Properties (including lit review, field investigation, etc.):

A Section 106 Scoping Request was prepared by Lawhon & Associates, Inc. on September 5, 2018. The request for review provided a records check which included a review of electronic data from the Ohio State Historic Preservation Office (SHPO) to identify properties within the project area listed on or eligible for the National Register of Historic Places (NRHP), Ohio Archaeological Inventory (OAI) sites, Ohio Historic Inventory (OHI) buildings and structures. Two OHI sites were identified within the project area.

Based on results from a previous study, SHPO recommended additional consideration of resources identified which include GEA0088303 (11110 Mayfield Road). ODOT determined that a Phase 1 History/Architecture Survey was warranted.

A Phase 1 History/Architecture Survey GEA-322-7.78 Intersection Improvement Project (PID 106261) Munson Township, Geauga County, Ohio dated March 27, 2019 was prepared by Lawhon & Associates, Inc. The survey evaluated 21 architectural locations 50 years of age or older within the APE for National Register eligibility. None of the identified resources were found eligible for inclusion in the NRHP individually or as a district.

OES issued an IOC dated October 9, 2018 that stated that due to project type, limited amount of new strip right-of-way, and current ground conditions, no further archaeology investigation was required for this project.

Is there an eligible or listed NRHP Historic Property in the Area of Potential Effects Pursuant to 36 CFR part 800? No

OES Approval/OSHPO Concurrence Date: 04/10/2019

Remarks:

On April 10, 2019 OES issued an IOC which states that in accordance with 36 CFR 800.4(d)(1) and the Section 106 Programmatic Agreement between FHWA, ODOT, Ohio's SHPO, and ACHP executed November 8, 2017 (Agreement No. 19319) ODOT has determined a finding of "no historic properties affected" is applicable to the subject undertaking. No properties listed in or eligible for listing in the NRHP will be affected by the undertaking. No further cultural resource investigations are warranted.

This completes the Section 106 review process. The State Historic Preservation Office (SHPO) was provided a 15-day opportunity to comment. No comments were received.

What is the Section 106 effect determination in the OES Transmittal? No Historic Properties Affected

Archaeological Resource Adverse Effect

History/Architecture Adverse Effect

Tribal Consultation



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Tribal Consultation Summary/Remarks:

The Miami Tribe of Oklahoma offers no objection to the project as it is not currently aware of existing documentation directly linking a specific Miami cultural or historic site to the project site. However, as this site is within the aboriginal homelands of the Miami Tribe, if any human remains or Native American cultural items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) or archaeological evidence is discovered during any phase of this project, the Miami Tribe requests immediate consultation with the entity of jurisdiction for the location of discovery. See the Miami Tribe of Oklahoma correspondence, dated May 7, 2019, with its comments on the project in the Project File/Cultural Resources/Coordination subsection.

Environmental Commitments

Are there any Environmental Commitments?

No



Ecological

ESR

Has an ESR been completed? Yes

Date ESR was completed: 08/31/2018

Wetlands

Are Wetlands Present? Yes

Are Any Wetlands impacted? Yes

Has a Wetland Delineation been made? Yes

Has the wetland Jurisdictional Determination been made? No

Identified Wetlands

Wetland ID	ORAM Category	Type	Est Total Size (Acres)	Est Impact (Acres)
Wetland A	1	Non-Isolated	0.028	0
Wetland B	1	Non-Isolated	0.06	0
Wetland C	1	Non-Isolated	0.001	0
Wetland D	1	Non-Isolated	0.081	0.003

Est. Total Size (Acres) of for Project: 0.170

Est. Total Impacted (Acres) of for Project: 0.003

Total Acres of Non-Isolated Wetlands impacted: 0.003

Total Acres of Isolated Wetlands impacted: 0

Remarks:

Lawhon & Associates, Inc. prepared a Level 1 Ecological Survey Report dated August 31, 2018. Four wetlands were identified within the project area, one of which will be impacted for a total impact area of approximately 0.003 acres:

- Wetland A - non-isolated
- Wetland B - non-isolated
- Wetland C - non-isolated
- Wetland D - non-isolated

These impacts result from the US 322 and Auburn Road intersection project. The "Do Nothing" Alternative would not satisfy the Purpose and Need of the project because it would not address the safety issues at the intersection. Avoidance of wetland locations will be performed to the extent practicable.



Mitigation for wetland impacts will be performed per the requirements for the waterway permit. Wetland finding in Project File/Ecological/Project information/Wetland Finding.pdf.

Streams & Rivers

	Present:	Impacted:
Streams and Rivers:	Yes	Yes
National Scenic River:	No	
State Scenic River:	No	
Sec 9:	No	
Sec 10:	No	

Impacted Streams and Rivers

Stream Name	Total Linear feet Impacted	QHEI	Aquatic Life Use Designation
Stream 1	0	n/a	Class I PHWH
Stream 2 - Upstream	96.8	n/a	Class I PHWH
Stream 2 - Downstream	203.6	n/a	Class II PHWH

Total Linear feet Impacted:

300.4

Remarks:

Lawhon & Associates, Inc. prepared a Level 1 Ecological Survey Report dated September 31, 2018. Three streams were identified within the project area, two of which will be impacted.

- Stream 1 drains to Wetland A, to an unnamed tributary of the Chagrin River, to the Chagrin River
- Stream 2 (upstream) drains to the Chagrin River
- Stream 2 (downstream) drains to the Chagrin River

Any necessary stream mitigation will be addressed as a part of the waterway permit process.

Other Surface Waters

	Present:	Impacted:
Reservoirs:	No	
Lakes:	No	
Ponds:	No	
Storm Water Management Facility:	No	
Jurisdictional Ditch:	No	
Other (If selected please explain in remarks):	No	

Remarks:



A Level 1 Ecological Survey Report was performed by Lawhon & Associates Inc. on August 31, 2018. No other surface waters were identified within the project area.

Terrestrial Habitat

	Present:	Impacted:
Terrestrial Habitat:	Yes	Yes
Unique or high Quality:	No	

Remarks:

A Level 1 Ecological Survey Report was performed by Lawhon & Associates, Inc. on August 31, 2018. Terrestrial habitat in the project area consists of common mixed vegetation and trees and includes developed Medium Density (primarily single family housing, etc.); Open Space (mowed right-of-way, single family housing, parks, etc.); Upland Forest (uplands dominated by trees); and Marsh (wetland dominated by submergent, floating, and/or emergent vegetation).

No unique or high quality terrestrial habitats occur within the study area.

Threatened or Endangered Species

	Present:	Impacted:
Within the known range of a Federal Species?	Yes	No
Federal Species/habitat found within the project area?	Yes	Yes
Within the known range of a State Species?	Yes	No
State Species/habitat found within the project area?	No	

Remarks:

The proposed project is within the known range of the following federally (F) listed threatened and endangered species. According to the ODNR Ohio Heritage Program database (OHD) review, the project is within 1 mile of the known range of the following state (S) listed threatened and endangered species.

- Indiana bat (*Myotis sodalists*) - F
- Northern long-eared bat (*Myotis septentrionalis*) - F
- Blanding's turtle (*Emydoidea blandingii*) - S
- Spotted turtle (*Clemmys guttata*) - S

The project is also within the known range of the following federal and state listed species of concern

- Bald Eagle (*Haliaeetus leucocephalus*) - F
- Great Lakes Crayfish (*Orconectes propinquus*) - S



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For the Indiana bat, approximately 1.076 acres of suitable wooded habitat (SWH) is expected to be impacted by this project. All of the 1.076 acres of the SWH are within 100' of EOP. Review of ODNR's OHD did not identify a capture within one (1) mile of the proposed project area. This project meets the CC1 and *may affect, not likely to adversely affect* this species.

For the Northern long-eared bat, suitable habitat similar to the Indiana bat was identified. This species also prefers man-made structures and caves. No caves were identified within the proposed project area and no man-made structures besides the one house will be removed. This project meets the CC1 and *may affect, not likely to adversely affect* this species.

For the Blanding's Turtle, suitable habitat was identified in the proposed project area. The residential setting and fragmented landscape would likely preclude this species from utilizing this habitat. This project is *not likely to impact* this species.

For the Spotted Turtle, suitable habitat was identified in the proposed project area. The residential setting and fragmented landscape would likely preclude this species from utilizing this habitat. This project is *not likely to impact* this species.

For the Great Lakes Crayfish, suitable habitat was identified north of US 322, although no impacts are anticipated to the open channel. This project is *not likely* to this species.

On July 30, 2018 the culverts were inspected and no nesting birds or peregrine falcons were observed.

Agency Coordination

	Coordination Required:	Comments Received Date:
Ohio Department of Natural Resources (ODNR):	No	
United States Fish and Wildlife Service (USFWS):	Yes	10/17/2018
Ohio Environmental Protection Agency (OEPA):	No	
United States Army Corps of Engineers (USACE):	No	
ODNR State Scenic River:	No	
National Park Service (NPS) National Scenic River:	No	

Remarks:

Coordination under the February 29, 2016 Framework Programmatic Biological Opinion was submitted to USFWS on September 28, 2018.

The USFWS concurred on October 17, 2018 that the project falls under the CC1-a category of impacts which *may affect, not likely to adversely affect* the Indiana bat and the Northern long-eared bat provided ODOT adheres to clearing any trees only between the dates of October 1 and March 31; minimizes tree removal, the project footprint, aquatic resource impacts, and forested upland habitat impacts. A plan note has been added.

Are there any environmental commitments?

Yes



Other Resources

Farmlands

Farmlands

The proposed project is located within an Urbanized Area No

The proposed project is located within a Non-Urbanized Area Yes

The proposed project involves new permanent right-of-way (ROW) Yes

The proposed project involves temporary ROW Yes

The proposed project is a type of action listed below and meets allowable ROW thresholds: Bridge replacement requiring ROW of three (3) acres or less to accommodate bridge piers, wingwalls, and/or approach work Widening requiring linear strip ROW of 10 acres or less per linear mile Intersection improvement requiring ROW of three (3) acres or less Yes

Undeveloped land being used for construction purposes is protected by a conservation easement No

Undeveloped land being used for temporary ROW will be returned to equal or greater productive capability upon completion of the proposed project Yes

Based on the scope and type of work, the proposed project is in compliance with the executed Farmland Memorandum of Understanding (MOU), the FPPA, and 7 CFR 658. Completion of the Farmland Conversion Impact Rating (FCIR) Form is not warranted. No further coordination is required.

OES Concurrence Date 01/01/1900

NRCS Approval Date 01/01/1900

Land being used for the proposed project is part of an Agricultural District No

Remarks:

Based upon review of appropriate mapping, the proposed project is located in a non-urbanized area. Based on the scope and type of work, the proposed project meets the terms and conditions of the *Memorandum of Understanding between the Natural Resource Conservation Service and the Ohio Department of Transportation for Projects Involving Farmland (Agreement No. 19552)*, executed on March 15, 2016. Therefore, completion of the Farmland Conversion Impact Rating (FCIR) Form was not warranted and no further coordination is required.

Are there any environmental commitments? No

Drinking Water

The proposed project is wholly or partially located within the USEPA designated boundaries of a Sole Source Aquifer No



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	Present:	Impacted:
The proposed project is wholly or partially located within the OEPA designated boundaries of a Source Water Protection Area	No	

Coordination with the Local Public Water Administrator is required

No

	Present:	Impacted:
Residential Wells are present	Yes	No

Remarks:

The Ohio EPA Division of Drinking and Ground Waters mapping tool was used to identify the presence of drinking water resources within the project study area. The map indicates that there are no public water system wells, intakes, drinking water source protection areas, non-transient, non-community Water Systems or transient non-community water systems within 1/2 mile of the project area. The project area does not lie over a Federally-designated sole source aquifer.

Well locations near the project limits were mapped from ODNR Ground Water Mapping and Technical Services' website. One well is located adjacent to the project in the northwest quadrant of the intersection and several other wells are located within 1/4 mile of the project. No wells impacts area anticipated.

OEPA and ODNR mapping may be found in the Project File under Other Resources/Drinking Water

Are there any environmental commitments?

No



Section 4(f)

Section 4(f) Determination

Section 4(f) properties are within and/or adjacent to the proposed project area

No

Identified Section 4(f) Properties

Remarks:

Based upon mapping and property ownership records, no publicly-owned parks, recreation facilities or areas, or wildlife and waterfowl refuges are located within the project area. Therefore, no recreational Section 4(f) properties will be impacted by this project.

No historic properties are located in the project area.

Based upon this information there are no Section 4(f) properties in the project area.

Are there any environmental commitments?

No



Section 6(f)

Section 6(f) Determination

	Present:	Impacted:
6(f) Properties:	No	

Remarks:

No outdoor public recreation areas were identified within and/or adjacent to the proposed project area and based on review of the Land and Water Conservation Fund State Grant Listing <http://www.lwcfcoalition.com/tools>, no funds were used to acquire and/or develop said recreation areas. Therefore, no further coordination is required.

Grant List may be found in the project file under Section 6(f)/Project Information

Are there any environmental commitments?

No



Community Impacts

Community Impacts

Will the proposed action comply with the local/regional development patterns for the area? Yes

Remarks:

The proposed project is consistent with the Geauga County General Plan 2003 and its goal "to improve the transportation system to correct public safety deficiencies and to enhance mobility." The project is not expected to change development patterns in the area. The project is listed in the Northeast Ohio Areawide Coordinating Agency's (NOACA) the Metropolitan Planning Organization for the region, FY 2018-2021 Transportation Improvement Program.

Will the proposed action result in substantial negative impacts to community cohesion? No

Remarks:

The project is not expected to result in any negative impacts to community cohesion.

Will the proposed action result in indirect or cumulative impacts? No

Remarks:

The proposed improvements will not result in a reasonably foreseeable secondary or cumulative impact. The proposed improvements are expected to have positive impacts on the local community by improving safety at the intersection.

Will the proposed action result in substantial impacts on health and educational facilities, public utilities, fire, police, emergency services, religious institutions, public transportation, pedestrian and bicycle facilities? No

Remarks:

Substantial impacts will not occur to health and educational facilities, public utilities, fire, police, emergency services, religious institutions, or public transportation facilities. Emergency services and schools will be notified of any delays and closures associated with construction. A Maintenance of Traffic Plan has been developed for this project that allows for local access during construction. Residents of the project area may experience short-term impacts during construction; however, safety for the public utilizing this facility will be improved in the long run.

Will the proposed action displace residents, businesses, institutions or farms? Yes

Number of Displacements

Residences: 1

Businesses: 0

Institutions: 0

Farms: 0

Remarks:



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One relocation is anticipated in the northwest quadrant of the intersection due to this project.

Are there any Environmental Commitments?

No



Underserved Populations

Underserved Populations

Identified Underserved Populations

Census Block Group #	% Minority	% Low Income
390553108004	0	31
390553108002	2	13
390553108003	4	6

Are Underserved Populations located within and/or adjacent to the proposed project area?	Yes
Are there any relocations?	Yes
Are there residential relocation(s)?	Yes
Is Housing of Last Resort anticipated?	No
Are there business relocations?	No
Will there be changes to access?	No
Will the proposed project result in unanticipated additional impacts to any Underserved Populations?	No
Were any concerns related to impacts on Environmental Justice Populations or any other unique factors that could result in a disproportionately high and adverse effect raised during public involvement?	No
Were any concerns related to impacts on Title VI Populations or any other unique factors that could result in a disparate impact raised during Public Involvement?	No
Were any concerns or any other unique factors that could result in an impact to any of the other Underserved Populations (Limited English Proficiency, Older Adults, or Individuals with Disabilities) raised during Public Involvement?	No

Remarks:

According to the ODOT's TIMS, the EJ population percentages are mixed in the project area. The Minority population ranges from 4 to 0 percent. The Low Income population ranges from 31 to 6 percent. The older adult population ranges from 28 to 21 percent and the Limited English Proficiency (LEP) ranges from 2 to 0 percent population. The project will require a detour of northbound Auburn Road traffic will be detoured during one phase of construction. There are no pedestrian facilities within the project area.

The proposed project will have no disproportionately high and adverse effects to minority or low-income populations or disparate impacts to a Title VI population based upon the table above, the attached mapping, and the answers to the questions above. No concerns related to impacts on Environmental Justice or Title VI populations were raised as a result of public involvement activities conducted as part of the proposed project. Therefore, in accordance with the protections of Executive Order 12898, FHWA Order 6640.23A and Title VI of the Civil Rights Act of 1964, no further analysis is required.

The proposed project will have no substantial impacts to Limited English Proficiency, Older Adults, and Individuals with Disabilities Populations based upon the table above, the attached mapping, and the answers to the questions above. No concerns related to impacts on these Underserved Populations were raised as a result of public involvement activities conducted as part of the proposed



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project. Therefore, in accordance with the protections of the Age Rehabilitation Act of 1973, Discrimination Act of 1975, Americans with Disabilities Act of 1990, and Executive Order 13166, no further analysis is required.

Based on the above findings an Underserved Populations Impact Analysis Report is not required.

Census Mapping can be found in the Project File under Underserved Populations/Project Information

Are there any Environmental Commitments?

No



Public Involvement

Public Involvement

Please provide a summary of the Public Involvement activities that have been conducted for this project. (For example press releases, letters to affected property owners and residents, meetings, special purpose meetings, newspaper articles, etc)

Property owner letters were sent on April 20, 2018 and June 27, 2018 to notify property owners of the project and planned survey fieldwork associated with the project.

An informational meeting was held on August 7, 2018 to provide information about the project and provide the public with an opportunity to comment on the project. Meeting announcement letters were sent on July 23, 2018 to property owners and stakeholders in the project area. ODOT issued a press release on 7/31/18. Forty-five people attended the meeting, including property owners and county staff.

A public meeting was held on April 17, 2019 to provide information about revisions to the project from more detailed design and in response to earlier public comments and to provide the public with an opportunity to comment on the changes to the project. Meeting announcement letters were sent on March 15, 2019 to property owners and stakeholders in the project area. ODOT issued a press release on March 11, 2019. Twenty-seven people attended the meeting, including property owners, county, township, and school officials, and local newspaper staff.

Public involvement materials can be found in the project file under Public Involvement/Project Information

Was Public Involvement conducted in compliance with Title VI requirements?

Yes

Is there any substantial environmental controversy on environmental grounds?

No

Please summarize the Public Involvement responses received.

The comment period was from August 7 - September 3, 2018. Three written comments were received at and following the meeting. Comments included information regarding Century homes and leach field in the project area; and concern for removal of trees that provide both a sound & privacy barrier and related potential loss of property value. The township is concerned about minimizing impacts to historic properties and loss of trees; and requested for LED full cut-off lighting.

The comment period was from April 17 - May 17, 2019. Nine written comments were received at and following the meeting. Comments included concern about ditch for driveway drainage, proper drainage, possible impact to water well near road, concern for encroachment during construction, provided info on irrigation & electric under yard, info on septic system near roadway, request to keep as much border vegetation as possible, concern for closeness of temporary ROW to house & water well, not in favor of project, and request for plans. The township requested Section 106 reports, signal emergency services pre-emption for signal system, and compensation for detour impacts on township roads. School official requested more details on detours when known and during construction.

ODOT responded to each comment on 6/18/19 by letter. Responses are attached in Project File/Public Involvement/Project Information

Are there any Environmental Commitments?

Yes



Permits

Waterway Permits

Are Waterway Permits required?	Yes
Is the Waterway Permits Determination Complete?	Yes
Army Corps of Engineers	
Regional General Permit (RGP):	Yes
Nationwide Permit (NWP):	Yes
Section 404 Individual Permit:	No
Section 10 Permit:	No
Ohio EPA	
Section 401 Water Quality Certification:	No
Level 1 General Isolated Wetland Permit:	No
Level 2 Individual Isolated Wetland Permit:	No
Level 3 individual Isolated Wetland Permit:	No
US Coast Guard	
Section 9 Coordination:	No
Section 9 Bridge Permit:	No
ODNR	
Shore Structure Permit :	No

Remarks:

A Permit Determination Request was completed by Lawhon & Associates, Inc. on 4/15/2019. OES has not issued a Permit Determination. The project would likely be eligible for an RGP or Nationwide level permit. ODOT shall obtain all required permits prior to the start of construction.

Are there any environmental commitments?	Yes
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Storm Water Permits

NPDES Construction General Permit for Stormwater (NOI):	Yes
Watershed Specific NPDES Construction General Permit for Stormwater (NOI):	No



Remarks:

Construction of this project will likely require a total disturbance of approximately 3.5 acres of land surface. Because the proposed improvements will result in greater than 1 acre of earth-disturbing construction activities a Notice of Intent (NOI) will be submitted for this project requesting coverage under a National Pollutant Discharge Elimination System (NPDES) general permit for storm water discharges from Ohio EPA.

Are there any environmental commitments?

Yes

Floodplains

The proposed project involves encroachment within a Special Flood Hazard Area (SFHA)

No

Remarks:

Based upon review of the FEMA Flood Insurance Rate Map (FIRM) Community Panel 39055C0138D by Lawhon & Associates, Inc. on August 30, 2018, the project is not located within any regulated floodplain.

The FIRM can be found in the project file under Permits/Floodplain

Are there any environmental commitments?

No

Landfills

Is a 2713 Permit required?

No

Remarks:

Based upon regulated materials studies conducted by Lawhon & Associates, Inc. there are no landfills located within the project area. No permit is required.

Are there any environmental commitments?

No



Environmental Commitments

General Project Information

1) The designer shall incorporate the following note in the plans: The contractor will provide notification to Munson Township, Munson Township Fire Department, Geauga County Sheriff, and Chardon Local Schools at least 14 days prior to the start of detours or lane closures.

Ecological

1) The Project Designer shall incorporate the following note into the plans: The project is located within the known habitat ranges of the federally listed and protected Indiana bat and northern long-eared bat. No trees shall be removed under this project from April 1 through September 30. All necessary tree removal shall occur from October 1 through March 31. This requirement is necessary to avoid and minimize impacts to these species as required by the Endangered Species Act. For the purposes of this note, a tree is defined as a live, dying, or dead woody plant, with a trunk three inches or greater in diameter at a height of 4.5 feet above the ground surface, and with a minimum height of 13 feet.

Public Involvement

1) The designer shall incorporate the following note in the plans: The Contractor shall keep storage of vehicles and fuel storage greater than 100 feet from the well at 11028 Mayfield Road. The Contractor maintain spill protection in any vehicles and fuel storage areas. The Contractor shall immediately take steps to mitigate any event, such as a spill of fuels, oils, or chemicals, that could threaten to contaminate the drinking water supply.

Permits - Waterway Permits

1) ODOT shall obtain and adhere to all appropriate waterway permits prior to any work below the ordinary high water mark of any waterway and all Special Provisions for waterway permits will be included in the plans.

Permits - Storm Water Permits

1) ODOT will complete the Notice of Intent (NOI), requesting coverage under a National Pollutant Discharge Elimination System (NPDES) general permit for storm water discharge prior to construction.



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Preparers and Approvals

Form Preparer:

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Approvals & Electronic Signatures

Approved & Electronically Signed By:	Approval Date:
Mark Carpenter (TRANS ENGR 3)	7/12/2019



Appendix

General

Aerial Map.pdf

Cultural Resources

Consulting Party Coordination.pdf

Ecological

Coordination with ODNR and USFWS.pdf

General

County Map.pdf

Cultural Resources

OES Determination of Eligibility.pdf

SHPO Comments

General

STIP Listing.pdf

TIP Listing.pdf

Cultural Resources

Transmittal 1 - Effect Determination

Tribal Consultation

Other Resources

Urbanized Area Map.pdf

Ecological

USFWS Comments Consult Form GEA-322-7.78 PID 106261.pdf

General

USGS Quadrangle Topographical Map.pdf

Other Resources

Water Source Protection Area Map.pdf

Well Log Data.pdf

Ecological

Wetland Finding.pdf

Underserved Populations



Census Mapping.pdf

Permits

FEMA FIRM.pdf

Section 6(f)

LWCF Grant Listing.pdf

Public Involvement

Meeting Advertisement 8-07-18.pdf

Press Release 4-17-19.pdf

Property Owner Notification Letter.pdf

Public Comments Received 4-17-19.pdf

Public Comments.pdf

Public Involvement Summary.pdf

Public Meeting Exhibits - Environmental Resources.pdf

Public Meeting Handouts - Comment Form.pdf

Public Meeting Handouts 4-17-19.pdf

Public Meeting Handouts.pdf

Public Meeting Notification 4-17-19.pdf

Public Meeting Notification.pdf

Public Meeting Sign In Sheet 4-17-19.PDF

Public Meeting Sign In Sheet.pdf

Public Notification Mailing List 4-17-19.pdf

Public Notification Mailing List.pdf

Response to Public Comments.pdf