



OHIO DEPARTMENT OF TRANSPORTATION

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

Full Re-Evaluation

for

CUY NORTH MAIN STREET BRIDGE PID 96956

Environmental Document Level: D1

Approved: 4/14/2022

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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 14, 2020, and executed by FHWA and ODOT.

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Re-evaluation Level

Explain why a re-evaluation is needed?

The project was bid. Only one bid was received and it was substantially higher than the available funding. We (including HDR and the County) met with the contractor who bid along with two others at the site to determine why the bid was higher than estimated. The contractors indicated it was the risk associated with the way the project was to be constructed. They specifically cited the following:

- Requirement to maintain vehicular and pedestrian traffic on North Main Street a requirement of the Village
- Small footprint for the work and equipment between traffic and parks original project did not allow for Bell Street to be closed
- No area for equipment or material storage so would have to truck this in each day to the site original project did not allow for use of either Bell Street Park nor Riverside Park
- Risk in removing fill from inside of the existing arch and not knowing what would be discovered during excavation
- Risk in removing the fill and maintaining traffic adjacent to the fill

Contractors suggested if the road could be closed for the duration, then the price would come down substantially however still risk involved in the work being done to the existing arch. Also the Village was very concerned about the business having a negative impact if the traffic was not maintained. Therefore, we reevaluated alternatives and the Village agreed with this new alt which does change the appearance of the structure.



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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

Project, Cost Schedule and Work Limits

Environmental Document Level:	D1
PID:	96956
Project Name:	CUY NORTH MAIN STREET BRIDGE
Project Sponsor:	CUYAHOGA COUNTY ENGINEER
ODOT District:	12
Funding Source:	Federal
Private Funding:	No
Local Public Funding:	Yes
STIP Reference #:	SLI 16 on Previous STIP
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:	\$85,838.00
Right of Way:	\$0.00
Construction:	\$3,801,821.20
Other:	\$0.00
An Interchange Modification/Justification/Operations Study (IMS/IJS/IOS) was completed	No
Project Description:	



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Cuyahoga County Department of Public Works (CCDPW) in cooperation with the Ohio Department of Transportation (ODOT) proposes to rehabilitate the North Main Street bridge over the Chagrin River and falls in the Village of Chagrin Falls, Cuyahoga County. Work includes adding concrete walls around the piers, lining the arches with concrete sections, removing the existing sidewalks and railings, installing new sidewalks and decorative metal railing on both sides of the structure, and replacing the existing retaining walls along the Chagrin River on the north and south sides of the river adjacent to the North Main Street Bridge (east side).

This is a re-evaluation of the previous C2 Level CE which was approved for the Adaptive Re-use alternative on May 30, 2017. Following approval of the NEPA document, detailed design continued and was completed in 2019. Subsequently, the project was put out for sale by the county. Only one bid was received for construction of the project, and it was twice the amount of the estimate and available funding. After discussion with the Village of Chagrin Falls and several construction contractors, determined that this alternative was not prudent. In 2019, the county re-evaluated the alternatives from the AER and developed a revised Rehabilitation alternative, Alternative 1 (2020) Rehabilitation. Stones will not be repaired/replaced as previously proposed. Nothing on the fascia of the existing structure will be visible once the project is complete. The new headwalls will encase the existing structure. A form-liner will be used to replicate the stone appearance on the new headwalls. This change in design and scope of the project required re-evaluation of the NEPA document. Due to cultural resources impacts discussed below, the re-evaluation requires a D1 Level CE.

Temporary right-of-way will be required from properties adjacent to the bridge for construction access. Utility impacts are anticipated, but exact details are not known at this time. Traffic will be maintained during construction with at least one lane in each direction. Pedestrian access will also be maintained on at least one side.

The project is located within the National Register of Historic Places (NRHP) listed Chagrin Falls Triangle Park Commercial (historic) District (# 78002036 & 95000634). The project results in an adverse effect. Mitigation was determined through a Cultural Resources MOA which is described in the Cultural Resources section. Section 4(f) Net Benefit Programmatic finding results from the project impacts to the historic resource. Documentation is described in the Section 4(f) section.

Temporary right-of-way impacts to recreational Section 4(f) resource, Riverside Park, will result from the project. Coordination and environmental commitments are described in the Section 4(f) section.

Stream impacts will occur and are described in the Ecological section.

No hazardous materials, no noise or air quality impacts, no Section 6(f) impacts, or impacts to underserved populations are associated with this project.

A virtual public open house was held from February 1 March 5, 2021 to provide project update and an opportunity to comment on the project. Local safety services and schools in the project area were also sent open house notices. Twenty-three written comments were received via email and online. The open house and comments are described in the Public Involvement section.

The environmental document and associated studies are being approved using Conceptual Design. A copy of the Updated Feasibility Study is included in the project file.

Limits of Proposed Work:

Chagrin Falls: North Main Street
over Chagrin River

Start (SLM): 0.10

End (SLM): 0.20

Total Work Length (Miles): 0.1

Roadway Character

Route Number: CR00264

Functional Classification:

Minor Arterial (Urban)



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Current Average Daily Traffic:	12610
Current Average Daily Traffic Year:	2019
Design Year Average Daily Traffic:	12610
Design Average Daily Traffic Year:	2039
Daily Hourly Volume:	880
Truck %:	4
Setting:	Urban
Topography:	Rolling

	Existing:	Proposed:
Design Speed (MPH):	25	25
Legal Speed (MPH):	25	25
Number of Lanes:	2	2
Type of Lanes:	through	through
Pavement Width (ft):	59	59
Shoulder Width (ft):	2	2
Median Width (ft):	n/a	n/a
Sidewalk Width (ft):	11	10.7

Sufficiency Rating:	070.6
General Rating:	4
Date Built:	07/01/1857
Bridge Location:	205' NORTH OF FRANKLIN ST
40. Bridge Type:	111N

Design Criteria For Bridges
Design Criteria for Bridges

SFN: 1832581

Sufficiency Rating:	070.6
General Rating:	4
Date Built:	07/01/1857
Bridge Location:	205' NORTH OF FRANKLIN ST

	Existing:	Proposed:
Bridge Type:	111N	TBD
Bridge Length (ft):	115	115



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Number of Main Spans:	2	2
Max Span Length (ft):	40.60	40.6
Load Restrictions (TON):	150	150
Curb to Curb Width (ft):	59.20	59
Shoulder Width(ft):	2	2
Under Clearance (ft):	n/a	n/a

Bridge Type Description:

The existing bridge will be rehabilitated. Work includes adding concrete walls around the piers, lining the arches with concrete sections, removing the existing sidewalks and railings, installing new sidewalks and decorative metal railings on both sides of the structure, and replacing existing retaining walls

Load Restrictions Description:

The rehabilitated bridge will be designed for HL-93 loaded with 60 psf FWS which indicates that the bridge will not have load restrictions.

Will the structure be rehabilitated or replaced as part of the project? No

If this bridge is a historic bridge, what type is it? n/a

Remarks:

The existing bridge will be rehabilitated. While the bridge itself is not historic it is a contributing element as part of the Chagrin Falls Triangle Park Commercial (historic) District.

41. Bridge Length (ft): 115

42. Number of Main Spans: 2

43. Max Span Length (ft): 40.60

44. Load Restrictions (TON): 150

45. Curb to Curb Width (ft): 59.20

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



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

Remarks:

North Main Street will remain open with at least one lane of traffic during construction. Bell Street will be closed during construction for staging and access. River Street may also be closed during construction. A detour will be provided.

Local safety services and school were notified of the virtual open house via letter dated January 29, 2021. The school district provided comments related to pedestrian access, which were addressed.

Are there any Environmental Commitments? No

Right of Way and Utility Involvement

The project requires Permanent Right-of-Way No

The project requires Permanent Easement(s) No

The project requires Temporary Right-of-Way Yes

Right of Way and Utility Involvement

Number of parcels impacted by Permanent Right-of-Way: 0

Number of parcels impacted by Temporary Right-of-Way: 2

Approximate acreage of Permanent Right-of-Way needed: 0

Approximate acreage of Temporary Right-of-Way needed: 0.196

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 No

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

Remarks:

Utilities in the project area include:

AT&T Ohio, Charter Communications, Dominion Energy, Illuminating Company/First Energy, and Village of Chagrin Falls Water Department & Street Department.

Temporary right-of-way will be required for this project.



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Purpose & Need

Purpose & Need

Project History:

The North Main Street Bridge (SFN 1832581) which carries North Main Street over the Chagrin River in the Village of Chagrin Falls, Cuyahoga County was built in 1857. The structure is an 82.5 foot wide, 115 foot long, 2-span, closed spandrel stone arch structure. It has been rehabilitated and modified over its service life. The 10.5 foot wide sidewalk on each side was added in 1960 and the structure was rehabilitated in 1980. Routine maintenance has also been performed on the structure over time.

The bridge is owned and maintained by the Cuyahoga County Department of Public Works.

Cuyahoga County inspects bridges at least every two years. This project is included in the Cuyahoga County Department of Public Works work plan and in ODOT's FY 2021-2024 Statewide Transportation Improvement Program.

Purpose Statement:

The purpose of the project is to address the deficient structure on North Main Street.

Need Element(s):

Bridges in Ohio are rated on a number of aspects, with the two indicators of the overall condition being the General Appraisal rating and the Sufficiency rating. The General Appraisal rating is a composite measure of the major structural items of the bridge. It is based on the existing conditions of the bridge as compared to its as-built condition. The General Appraisal rating ranges from 0-9, where 9 is like new and 0 is out of service. The Sufficiency rating is an FHWA formula which combines four major factors into a percentage; structural adequacy, safety, serviceability, and essentiality for public use. A GA of 4 or less is considered deficient and in need of replacement. A Sufficiency rating below 50 is deficient under FHWA standards.

The most recent inspection was conducted in September 2020. The following inspection details are noted in the 2015 AER, similar conditions were found in the 2020 inspection. Based on the inspection report deficiencies include: Approach has low spot and surface raveling; Deck has transverse cracks and spalls, multiple failed seals in joints, exposed rebar, moderate corrosion, beam paint system failure, bearings exposed, section loss, and railing paint blisters; Sidewalks have spalls and cracks, exposed rebar, and section loss; Superstructure has cracking and voids in mortar joints, cracks with efflorescence in barrels, leaching, and cracks in stone courses; Substructure has spalls in abutment walls, exposed rebar, delaminated concrete on pier, mortar joints have leaching and loss, cracks with efflorescence; and Channel has timber debris. The Sufficiency rating was 69.6 Structurally Deficient and the General Appraisal rating was 4 - Poor.

Goals and Objectives:

N/A

Summary Statement:

N/A

Logical Termini and Independent Utility:



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The logical termini for the proposed project are sufficient to consider the range of alternatives to address the deficient structure. The study area is 75 feet west of the Bridge; 150 feet east; and 150 feet north & south of the Bridge on North Main Street.

The project is independent of any other transportation project in the area and is not part of any system linkage or long range development or transportation improvement plan. The project is not divided into interdependent phases, will be constructed under one construction contract, stands alone as independent project, and therefore, establish independent utility.



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Alternatives

Alternatives

Discuss No Build Alternative:

The No Build Alternative includes only routine maintenance. This alternative would not address the deficient structure. The No Build Alternative does not meet the project's Purpose & Need.

Was a Feasibility Study completed?

No

Was an Alternative Evaluation Report (AER) completed?

Yes

Date AER was approved:

07/13/2021

Alternatives Considered

Name	Description	Reason Dismissed	Included in the AER	Preferred Alternative
2015 Alternative 1 Rehabilitation	Repair existing bridge & replace sidewalk system	potential future weight restrictions, more frequent maintenance, shorter service life	Yes	No
2015 Alternative 2 Adaptive Re-use	Install new structure system inside arches to carry live load	not dismissed in 2015	Yes	Yes
2015 Alternative 3 Replacement	Replace existing structure with 2-span precast arch	temp impacts to businesses, longest construction time, does not preserve arches	Yes	No
2020 Alternative 1 Rehabilitation	Repair existing bridge & replace sidewalk, lining barrel arches, encasing piers, reface retaining walls	developed to address constructability issues	No	Yes

Discuss Reasons Alternative Identified as Preferred was selected:



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The AER was completed in 2015 and evaluated the three alternatives for structure, maintenance of traffic, constructability, environmental impacts, hydraulics, utility conflicts, aesthetics, and impacts to the local community. All three alternatives met the project's purpose & need. Alternative 2 - Adaptive Re-use was selected by the County as the preferred alternative, based on the fewest constructability concerns, medium cost, low impact to community during construction, longer service life, and maintained historic features.

As discussed in the General tab under Project Description, Alternative 2 was carried forward, designed, and out for bid with no contract awarded.

Starting in 2019, the County held discussions with the Village, contractors, designers, and ODOT. These discussions resulted in the County developing an updated rehabilitation alternative, 2020 Alternative 1 Rehabilitation.



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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 alignment. 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 Yes

The proposed project falls under 40 CFR 93.126 Yes

Remarks:

The subject project is in Cuyahoga County which is a PM 2.5 Nonattainment Area. However, this project is exempt from PM2.5 analysis per 40 CFR 93.126 'widening narrow pavements or reconstructing bridges.'

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:

The project is exempt under 40CFR93.126. The project is listed as reconstruction of bridges that does not add additional travel lanes. See the attached Ozone Flow Chart in Project File.

Environmental Commitments



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Are there any environmental commitments? No



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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	No
The proposed project is a Type II project	No

Remarks:

The project does not qualify as a Type I project for noise (i.e. not adding capacity to thru lanes, not moving thru travel lanes equal to or greater than 50% closer to noise sensitive areas) and a noise analysis is not required for the project under 23 CFR 772.

Environmental Commitments

Are there any environmental commitments? No



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ESA

ESA

Does the project require any Permanent ROW or Easement?: No

Does the project require any temporary ROW?: Yes

ESA Screening Report was completed by District Staff No

Remarks:

Lawhon & Associates, Inc. conducted an ESA Screening, Phase 1 ESA, and Phase 2 ESA for properties within the project area in accordance with the Ohio Department of Transportation guidance in 2015.

Lawhon & Associates, Inc. conducted a Regulated Materials Review for the project corridor in May 2020 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 materials management. OES issued an email dated 3/18/22 stating agreement with the recommendation.

- RMR Screening and coordination may be found in the Project File under ESA.

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



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Cultural Resources

Cultural Properties Present

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

Lawhon & Associates, Inc. prepared the Section 106 Scoping Request on May 22, 2020. 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. No OAI or OHI sites were identified within the project area. The project area is entirely within the NRHP listed historic district, Chagrin Falls Triangle Park Commercial District (#78002036 & 95000634) and the subject bridge is a Contributing Resource to this district.

Is there an eligible or listed NRHP Historic Property in the Area of Potential Effects Pursuant to 36 CFR part 800? Yes

OES Approval/OSHPO Concurrence Date: 11/12/2020

Remarks:



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On November 5, 2020, in accordance with 36 CFR 800.5(a), ODOT-OES determined a finding of 'adverse effect' was applicable to the subject undertaking based on the following:

- The undertaking, rehabilitation of the North Main Street Bridge (SFN 1832581), will alter a contributing characteristic of the Chagrin Falls Triangle Park Commercial District [Ref #78002036].
- The undertaking will not diminish the integrity of the Chagrin Falls Triangle Park Commercial District [Ref #78002036] to the extent the district is no longer eligible for inclusion in the NRHP.
- The County and ODOT will consult with Section 106 consulting parties to develop measures to minimize effects and to mitigate the adverse effect on the Chagrin Falls Triangle Park Commercial District.
- The agreed upon measures to minimize effects and to mitigate the adverse effect will be formalized by an executed Memorandum of Agreement in accordance with 36 CFR 800.6.
- Upon concurrence with a finding of adverse effect, ODOT-OES will notify the Advisory Council on Historic Preservation (ACHP) of the adverse effect on the Chagrin Falls Triangle Park Commercial Historic District and provide the documentation specified by 36 CFR 800.11(e) to determine whether they will be participating in the resolution of the adverse effect.
- No further archaeological investigations are warranted within the area of potential effects. The area has been previously disturbed by modern development.

SHPO provided concurrence with this finding on November 12, 2020.

On March 25, 2021, ODOT-OES notified the Advisory Council on Historic Preservation (ACHP) to determine participation in the consultation process. On April 8, 2021, ACHP notified ODOT-OES of its decision not to participate in the consultation process. On November 5, 2020, ODOT-OES notified the Consulting Parties identified in 2015, of the 'adverse effect' to the Chagrin Falls Triangle Park Commercial District. Comments were received from one Consulting Party. As part of the public involvement process conducted from February 1 through March 5, 2021, the public was provided an additional opportunity to request to become a consulting party. Several additional Consulting Parties were accepted. ODOT-OES and Cuyahoga County held a meeting with the Consulting Parties on April 22, 2021 to work through the Section 106 consultation process, address concerns, and develop mitigation strategies. Several Consulting Parties provided comments following the meeting. A second Consulting Parties meeting was held on August 3, 2021 to discuss mitigation strategies and develop a Memorandum of Agreement (MOA). On January 25, 2022 an MOA was executed between SHPO, ODOT, and Cuyahoga County for the Adverse Effect. Stipulations contained in the executed MOA are included as environmental commitments below.

This concludes the Section 106 process.

Please check all NRHP Eligible and/or Listed resources:

Historic District

What is the Section 106 effect determination in the OES Transmittal? Adverse Effect

Does this project have an Adverse Effect on Archaeological resources? No

Does this project have an Adverse Effect on History/Architecture resources? Yes

Archaeological Resource Adverse Effect

History/Architecture Adverse Effect

Date OSHPO Concurred with Adverse Effect determination: 11/12/2020

Date Documentation for Consultation was sent

ACHP: 03/25/2021

OSHPO: 11/05/2020



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Is FHWA consultation required?

No

Did you contact any other Consulting Parties?

Yes

Consulting Parties

Additional Party Name	Documentation Date:
Nathan Holth, historicbridges.org	06/02/2015
Steven King	06/12/2015
Yolita Rausche	10/09/2015
B. Richard Bodwell	08/07/2015
Eddie Tancredi	02/17/2021
Christopher Woofter, Operations, Chagrin Schools	02/17/2021
Wendy Hoge Naylor	02/24/2021
John Bourisseau, Chagrin Falls Historical Society	02/24/2021
Brian Schwartz	03/04/2021
Robert Jamieson, CMO, Village of Chagrin Falls	03/15/2021
Frank Rausche	10/09/2015

Date of Advisory Council on Historic Preservation response:

04/08/2021

Is Advisory Council on Historic Preservation participating?

No

Date MOA was executed:

01/25/2022

Tribal Consultation

Since no Tribe was interested in this project based on their customized preferences, no further Tribal consultation was conducted

Environmental Commitments

Are there any Environmental Commitments? Yes



Ecological

Has an ESR been completed? Yes
Date ESR was completed: 08/04/2020

Are Wetlands Present? No

Remarks:

A Level 1 Ecological Survey Report dated October 21, 2015 and an updated Level 1 Ecological Survey Report dated August 4, 2020, were prepared by Lawhon & Associates, Inc. Based on field surveys conducted on July 7, 2020 no wetlands were identified in the project area.

- The ESRs can be found in the project file under Ecological/Reports

Streams & Rivers

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

Impacted Streams and Rivers

Stream Name	Total Linear feet Impacted	QHEI	Aquatic Life Use Designation
Chagrin River	278	68.5	Warm Water Habitat (WWH)

Total Linear feet Impacted: 278

Remarks:



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Based on the results of the field surveys, one stream (Chagrin River) was identified within the project limits. The project is located within the corporation limits of the Village of Chagrin Falls. Chagrin River is a designate state scenic river, however the ODNR Scenic River Program's jurisdiction does not extend through corporation limits.

Chagrin River flows to Lake Erie.

Impacts are associated with the rehabilitation of the existing bridge and retaining wall. Any required waterway permits will be obtained prior to construction. Any mitigation required by 404/401 permitting will be obtained.

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:

Based on the results of the field survey no other surface waters were identified in the project area.

Terrestrial Habitat

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

Remarks:

Based on the results of the field surveys, terrestrial habitat within the project area consists of open water, developed open space, high density developed, and floodplain forest areas.

No unique, rare, or high quality vegetative communities were observed in the project area.

Threatened or Endangered Species

	Present:	Impacted:
Within the known range of a Federal Species?	Yes	Yes
Federal Species/habitat found within the project area?	Yes	Yes
Within the known range of a State Species?	Yes	Yes



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State Species/habitat found within the project area?	Yes	Yes
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Remarks:

The project is within the known ranges of the following species of federal concern: Bald Eagle, Indiana Bat, Northern Long-eared Bat, Piping Plover, and Rufa Red Knot. ODOT concluded that the project would have No Effect due to lack of suitable habitat for these species within the project area.

Approximately 0.0879 acres of suitable wooded habitat (SWH) for the Indiana bat and Northern Long-eared bat will be impacted by the project, all of which is located within 100' ECP. The project is not located within a USFWS bat buffer zone. A plan note will be added to seasonally remove trees when the species would not be utilizing the roosting habitat.

For state-listed species, the project is within the known range of the Caddisfly, Little Brown Bat, and Tricolored Bat. The bat species utilize suitable wooded habitat as discussed above. Suitable Wooded Habitat for the Little Brown and Tricolored bats will be seasonally removed when both species would not be utilizing the roosting habitat. As a result the project is not likely to impact either species of state endangered bat. No or very little habitat exists within the construction limits for the Caddisfly. The project will not likely impact these species.

Agency Coordination

	Coordination Required:	Comments Received Date:
Ohio Department of Natural Resources (ODNR):	Yes	01/05/2016
United States Fish and Wildlife Service (USFWS):	Yes	12/31/2015
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 and ODNR on January 29, 2021. The project meets the Non-Notifying criteria for both USFWS and ODNR. No further coordination is required.

All conditions of the MOA that was signed by ODOT, ODNR, and the USFWS will be met and followed throughout construction

- OES Approval No ODNR and USFWS Notification and 2020 Level 1 Ecological Survey Report may be found in the project file under Ecological.
- 2015 ESR and related coordination under the previous MOA may also be found in the project file under Ecological.

Are there any environmental commitments? Yes



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Other Resources

Farmlands

Farmlands

The proposed project is located within an Urbanized Area Yes

The proposed project is located in an area that is in or committed to urban development or water storage and is therefore not subject to the Farmland Policy Protection Act (FPPA) in accordance with 7 CFR 658. No further coordination is required.

FCIR Required Completion of the Farmland Conversion Impact Form is required and coordination with USDA & NRCS is required.

Remarks:

Based upon review of appropriate mapping, the proposed project is located in an urbanized area zoned for non-agricultural purposes and is not in an agricultural district. Therefore, 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 Farmlands (Agreement No. 19552)*, executed on March 15, 2016. No further coordination is required.

- The Urbanized Area Map may be found in the project file under Other Resources/Farmlands

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

	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	No	

Remarks:



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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. No wells are located adjacent to the project area several wells are located within 1/4 mile of the project. No well impacts are anticipated.

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

Are there any environmental commitments? No



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Section 4(f)

Section 4(f) Determination

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

Concurrence received from the OWJ Yes

Were there multiple OWJs? Yes

Name	Date concurrence received
Village of Chagrin Falls	10/06/2020
Ohio State Historic Preservation Office	11/12/2020

	Present:	Impacted:
Publicly owned Park(s):	Yes	Yes
Publicly owned recreation facility(ies) and/or area(s):	No	
Wildlife and Waterfowl refuge(s):	No	
Historic Site(s):	Yes	Yes

Identified Section 4(f) Properties

Identified 4(f) Properties

Property Name	Type	Permanent ROW/Easement Acres	Temporary ROW/Easement Acres	4(f) finding	Date
Riverside Park	Publicly owned Park	0	0.099	Temporary No Use	11/10/2021
Chagrin Falls Triangle Park Commercial District	Historic Site	0	0	Net Benefit	02/18/2022
Falls Park/Falls Viewing Area	Publicly owned Park	0	0	Present; Not Impacted	11/06/2020

Remarks:



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Review of maps, county auditor's records, and SHPO files identified three Section 4(f) properties within the project area, Riverside Park, Falls Park/Falls Viewing Area, and Chagrin Falls Triangle Park Commercial (historic) district.

Riverside Park - This is an approximately 3 acre park along the Chagrin River and just above the Falls. Park facilities include a walking path, playground area, and scattered benches to view the river. The project will require 0.0992 acres of temporary right-of-way and require closure of that portion of the Park near the bridge and retaining walls for construction activities. The project will also require closure of the pedestrian access from North Main Street to Riverside Park, however alternative pedestrian access points will be maintained. These temporary impacts will last approximately 9 months and is necessary for the safety of the public and the construction workers. Some plants will be removed on and along the bridge within the Park by the Contractor and will be replaced in kind. Planters along the sidewalk near the entrance to the Park will also be temporarily moved during construction activities. A construction crane may be installed within the temporary right-of-way. The large sycamore tree on the edge of the river and its root structure will be protected during construction activities.

On November 10, 2021, ODOT-OES determined that the project meets the criterion as a Section 4(f) under 23 CFR 774.13(d) and will have a Temporary No Use impact on the park.

- Documentation may be found in the project file under Section 4(f)

Falls Park/Falls Viewing Area - This is an approximately 0.5 acre park, south of North Main Street. It is adjacent to the Chagrin River and Chagrin Falls, below the falls. The park features a stairway down to the lower river level to view the falls. No permanent or temporary right-of-way or easements are required for the project. No access restrictions or other impacts are anticipated. No coordination was required.

- A Memo-to-File may be found in the project file under Section 4(f)/Coordination

Chagrin Falls Triangle Park Commercial (historic) District - This district is listed on the NRNP and the proposed construction activities will have an adverse effect upon the district. Measures to minimize harm have been incorporated into the project and are detailed in the Memorandum of Agreement dated 1/25/22.

Related environmental commitments are listed under the Cultural Resources tab.

The subject project was determined as Net Benefit on 2/18/22.

- Documentation may be found in the project file under Section 4(f)

Are there any environmental commitments? Yes



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Section 6(f)

Section 6(f) Determination

Section 6(f) Determination

	Present:	Impacted:
6(f) Properties:	No	

Remarks:

Research of the The Wilderness Society Land and Water Conservation Fund mapping site <https://www.wilderness.org/articles/article/mapping-land-and-water-conservation-fund-lwcf> by Lawhon & Associates, Inc. did not identify any public parks or recreation areas that have used Section 6(f) funds within or adjacent to the project area. No funds were used to acquire and/or develop said recreation areas. Therefore, no further coordination is required.

Are there any environmental commitments? No



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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 local and regional development patterns. The North Main Street bridge is a critical transportation link for the Village of Chagrin Falls.

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

Remarks:

The proposed bridge rehabilitation improvements will not result in substantial negative impacts to community cohesion. The roadway will remain open during construction.

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 providing safe vehicular and pedestrian bridge.

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. Inconveniences will be experienced by public services (fire, police, and emergency services) because of the planned construction and closure of Bell Street; but the inconvenience will be temporary and short in duration. Emergency services and schools will be notified of any delays and lane closures associated with construction.

Will the proposed action displace residents, businesses, institutions or farms? No

Remarks:

No displacements will be required for the proposed project.

Are there any Environmental Commitments? No



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Underserved Populations

Underserved Populations

Identified Underserved Populations

Census Block Group #	% Minority	% Low Income	% Older Adults	% Limited English Proficiency (LEP)
391351959001	6	8	21	3

Are Underserved Populations located within and/or adjacent to the proposed project area? Yes

Are there any 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:



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According to the ODOT's TIMS, the project is located entirely within one Census blockgroup. The Minority population range is 6 percent. The Low Income population is 8 percent. The older adult population is 21 percent and the Limited English Proficiency (LEP) population is 3 percent.

The bridge will remain open with lane closures and pedestrian access will be maintained during construction.

Underserved Populations were involved as part of the public involvement process and offered the opportunity to comment on the project through the ODOT Public Input and County website, during the virtual open house meeting, and were provided information on who to contact to express concerns. The public meeting invitation letters also included project information and were sent to property owners, residents, and businesses within the proposed project area, as well as stakeholders, local government officials, and organizations. The virtual public open house meeting invitation letters outlined the status of the project, a project summary, ongoing environmental investigation activities, an invitation to the upcoming public meeting, and contact information. No comments have been received or issues raised concerning the project's impacts to Underserved Populations.

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 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 may be found in the project file under Underserved Populations

Are there any Environmental Commitments? No



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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 August 13, 2014 to notify property owners of the project and planned survey fieldwork associated with the project.

A series of local stakeholder/advisory committee meetings were held in 2014-2015. A list of the stakeholders and meeting summaries can be found in the 2017 Summary of Public Involvement.

A public meeting was held on June 11, 2015 from 5:30 to 7:30 pm at the Chagrin Falls branch of the Cuyahoga County Library. Legal notice was published in the Cleveland Plain Dealer on May 27, 2015 announcing the public meeting. A flyer was distributed in the Village announcing the public meeting. Comment forms and project information pamphlets were available. 18 people attended the meeting. A news article was published in the Chagrin Valley Times on July 2, 2015 with project information following the public meeting.

On January 29, 2021 a letter was mailed to property owners, business owners, and residents in the project area announcing the virtual public open house. A Public Input site was created by ODOT District 12. The virtual public open house was also listed on ODOT's Events web page. The Village of Chagrin Falls posted notice of the meeting on their website. Interested parties could view, download, and print the project information and provide comments during the 30-day comment period using their computer or smartphone. The Comment Form could also be downloaded, printed, completed, and mailed.

Additional public involvement activities were conducted as part of the Section 106 consultation process. See Cultural Resources tab.

- All Public involvement materials may be found in the project file under Public Involvement

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.



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The first public comment period was June 11 - 26, 2015.

Ten written comments were received during the comment period. Comments focused on preferences for alternatives and concerns for businesses in the vicinity of the project during construction, appearance of the exterior of the bridge and the sidewalks, and local events in the project area.

On December 3, 2015 a response to the comments received was distributed by CCDPW to the stakeholders.

The second public comment period coincided with the virtual public open house, February 1 - March 5, 2021.

Thirty-three written comments were received during the comment period. Primary concerns were what happened to the 2015 alternative, Consulting Parties process, maintaining traffic on bridge during construction, appearance of exterior of rehabilitated bridge, is the project needed, reuse stone work, criteria to select alternative, raise private funds to preserve old bridge, and construction impacts.

On July 1, 2021 CCDPW provided a written summary and response to comments received via a letter to each person who commented and posted the comment response table to the County project webpage and Public Input page.

Are there any Environmental Commitments? No



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Permits

Waterway Permits

Are Waterway Permits required?	Yes
Is the Waterway Permits Determination Complete?	No
Army Corps of Engineers	
Regional General Permit (RGP):	No
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:

The proposed project involves stream impacts below the Ordinary High Water Mark (OHWM). All required waterway permits will be obtained by Cuyahoga County Department of Public Works prior to the start of construction

Are there any environmental commitments? Yes

Storm Water Permits

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

Remarks:



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Construction of this project will likely require a total disturbance of approximately 0.5 acres of land surface. Because the proposed improvements will not result in greater than 1 acre of earth-disturbing construction activities a Notice of Intent (NOI) will not be required under a National Pollutant Discharge Elimination System (NPDES) general permit for storm water discharges from Ohio EPA.

Are there any environmental commitments? No

Floodplains

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

EO 11988/NFIP Coordination and Documentation Completed Yes

NFIP Local Floodplain Coordinator Notification Date 02/26/2016

Remarks:

Based on review of the FEMA Flood Insurance Rate Map (FIRM) Community Panel 39036C0242E by Lawhon & Associates, Inc. in March 2016, the project is located within a regulated floodplain. Floodplain coordination was initiated on February 26, 2016 and on March 22, 2017 the Village of Chagrin Falls accepted the hydraulic study and issued permit. ODOT Floodplain Statement of Findings was posted to the District 12 website on March 28, 2017. No comments were received.

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



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Environmental Commitments

Cultural Resources

- 1) A commemorative display will be installed within the historic district that provide the history of the historic District and the Bridge. The SHPO and the Consulting Parties will be provided an opportunity to review the location, text, renderings, and display prior to final design. The cost of such commemorative display will not exceed \$5,000.00. Design, installation, and future maintenance of the commemorative display will be the responsibility of the Village of Chagrin Falls.
- 2) Resource specific signage identifying the historic features of the Bridge and historic district will be installed within the District. The SHPO and Consulting Parties will be provided an opportunity to review the location, text, renderings, and display prior to final design. The cost of such signage will not exceed \$5,000.00. Design, installation, and future maintenance of resource specific signage will be the responsibility of the Village of Chagrin Falls.
- 3) The following aesthetic treatments will be incorporated into the design of the Bridge:
 - 1) Stone veneer will be applied to the exterior headwalls of the Bridge. The County will ensure samples of the stone are made available for review and comment by the SHPO and Consulting Parties. The stone veneer samples will show stone color(s), stone size, stone shape, and stone face finish(es).
 - 2) The Bridge structure will be concrete including the interior barrel arches. Colored stain and/or sealer will be applied to the interior of the barrel arches. The County will ensure color samples that may be applies to the interior of the concrete barrel arches are made available for review and comment by the SHPO and the Consulting Parties after the construction contract for the UNDERTAKING has been awarded by the County.
- 4) Plans will be made available to the SHPO and Consulting Parties for review and comment. The plans will provide an accurate depiction of the stone veneer size, scale, and proportion, arch details, and detail of the face of the arch opening to the interior barrel transition. The plans will show how the barrel arch concrete finish will terminate at the formlined vertical face. Stone veneer will not be applied as a finish on the barrel arch.
- 5) The total cost of the commemorative display, signage, and aesthetic treatments will not exceed \$300,000.00.

Ecological

- 1) Ensure impacts to the federally listed and protected Indiana bat and northern long-eared bat and the State listed and protected little brown bat and tricolor bat are avoided and minimized. Do not remove trees from April 1 through September 30. Perform all necessary tree removal from October 1 through March 31. Demarcate clearing limits in the field to avoid any unauthorized tree clearing. 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.

Section 4(f)

- 1) Maintain safe public access to Riverside Park at all times during construction activities at the East Orange Street Entrance. The project will need to temporarily close 0.0992 acres of Riverside Park, in addition to the pedestrian access on North Main Street, for construction activities to the retaining wall. The closures are temporary, lasting approximately nine months of the approximately 18-month construction schedule.
- 2) The designer shall incorporate this note into the project plans: The Contractor shall not impact Falls Viewing Area.



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- 3) The Contractor shall demarcate the large sycamore tree near the Chagrin River with protective fencing and shall protect the tree and its root system from any damage or harm.
- 4) The Contractor shall carefully remove, store, and return planters to Riverside Park and any damage to Riverside Park and its amenities will be restored, by the Contractor, to a similar condition to that which existed prior to the project.
- 5) Install and maintain temporary construction fencing along the known boundaries of Riverside Park and Falls Viewing Area within the project construction limits prior to the start of construction activities.
- 6) Prior to the start of construction activities, the Contractor shall install signage approved by the Engineer to alert Riverside Park users of construction activities and access restrictions or closures and to direct users to secondary access points.
- 7) Provide the construction schedule to the Cuyahoga County Department of Public Works and the Village of Chagrin Falls 30 days prior to the start of construction activities.
- 8) Any land to be disturbed shall be fully restored and returned to a condition which is at least as good as that which existed prior to the project.

Permits - Waterway Permits

- 1) CCDPW will obtain all appropriate waterway permits prior to any work within the jurisdictional boundary of any waterway, including wetlands, and all applicable waterway permits will be included in the plans and adhered to during construction.



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Approvals & Electronic Signatures

Approved & Electronically Signed By:	Approval Date:
Mark Carpenter (TRANS ENGR 3)	4/14/2022



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Appendix

General

Aerial Map-rev.pdf
Aerial Map.pdf
County Map-rev.pdf
County Map.pdf
USGS Quadrangle Topographical Map-rev.pdf
USGS Quadrangle Topographical Map.pdf

Purpose and Need

Bridge Condition Rating - BM191.pdf

ESA

OES Recommendations - Phase I.pdf
OES Recommendations - Phase II.pdf
OES Recommendations - Screening Re-eval.pdf
OES Recommendations - Screening.pdf
Regulated Materials Review Form.pdf

Cultural Resources

ACHP Response.pdf
Consulting Party Application.doc
Consulting Party Coordination_Plans .pdf
Consulting Party Request Acknowledgement_Holth.pdf
Consulting Party Request Acknowledgement_King.pdf
Consulting Party Request Acknowledgemt_Yolita_Frank_Rausche.pdf
Meeting Summary ODOT_SHPO.docx
Records Check.pdf
SHPO Concurrence - No Adverse Effect.pdf
SHPO Coordination - Re-Evaluation_adverse effect.pdf
SHPO Coordination_Plans.pdf

Ecological

Coordination with ODNR Scenic River.pdf



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Coordination with ODNR.pdf

Coordination with USFWS.pdf

ODNR Comments.pdf

ODOT Disposition of Agency Comments - ODNR.pdf

ODOT Disposition of Agency Comments - USFWS.pdf

OES Approval - No ODNR and USFWS Notification.pdf

USFWS Comments.pdf

Other Resources

Urbanized Area Map.pdf

Water Source Protection Area Map.pdf

Well Log Data.pdf

Section 4(f)

Coordination with FHWA - de minimis.pdf

FHWA Non-Objection - de minimis.pdf

OES Cultural Resources 4(f) Determination.pdf

OES Recreational 4(f) Determination.pdf

Environmental Justice

Census Mapping.pdf

Underserved Populations

Census Mapping 2.pdf

Public Involvement

News Article.pdf

Plain Dealer Legal Notice.pdf

Public Comments Received.pdf

Public Input Posting 2021.pdf

Public Involvement Summary.pdf

Public Meeting Handouts.pdf

Public Meeting Notification 2021.pdf

Public Meeting Notification.pdf

Public Meeting Village Web Posting 2021.pdf

Public Notification Mailing List 2021.pdf

Response to Public Comments Mailing List.pdf



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Response to Public Comments.pdf

Permits

Coordination with Local Floodplain Administrator.pdf

FEMA FIRM.pdf

Local Floodplain Administrator Approval.pdf

Statement of Findings.pdf