



OHIO DEPARTMENT OF TRANSPORTATION

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

Environmental Document

for

CUY Enterprise Parkway Bridge PID 119876

Environmental Document Level: C2

Approved: 7/18/2024

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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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C2

Project Information

PID: 119876
Project Sponsor: Solon, City of
ODOT District: 12
Funding Source: Federal

C2 Section

Project Description:

The proposed project will replace the Enterprise Parkway Culvert Bridge (SFN: 1831006) over Beaver Meadow Run that has a 28 ft. (run) by 4 ft. (rise) opening with a precast three-sided flat-topped concrete structure with the same opening (Proposed SFN: 1831007). The existing bridge is significantly deteriorated with a general appraisal of three per the 2023 bridge inspection. The existing reinforced concrete bottom slab and headwalls will also be replaced in-kind. Roadway approach work will be kept to a minimum. The structure will be replaced using part-width construction to maintain traffic. Temporary right-of-way acquisition of 0.070 acre and permanent right-of-way acquisition of 0.027 acre will be required for the project. No soil disturbance will take place off-pavement.

Total construction cost for this project is estimated at \$1,337,500 with a 20% local match. Approval and Preparation of this document was done in accordance with the most current approved and adopted guidance per the Ohio Department of Transportation Office of Environmental Services. All environmental documentation has been reviewed relative to the most recently available plans or studies at the time of this approval.

The next phase of the proposed project is listed on the STIP: Yes

Ellis STIP Details

Phase	Current STIP Reference
CO	119876: 24-27 STIP

The current cost estimate is in line with existing federal procedures for Ohio STIP Amendments and Administration Modifications: Yes

Select the appropriate project type:

(28) Bridge rehabilitation, reconstruction, or replacement or the construction of grade separation to replace existing at-grade railroad crossings, if the actions meet the constraints in 23 CFR 771.117(e). *Examples include: Railroad projects that close or relocate at-grade crossings*

In accordance with 23 CFR 771.117(e), the proposed project cannot be processed as a C2 CE, if it involves -

- a.** Acquisition of more than a minor amount of ROW (exceeds strip takes)



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2. **b.** Residential or non-residential displacements
3. **c.** A U.S. Coast Guard permit or an Individual Section 404 permit under the Clean Water Act
4. **d.** A Section 106 finding of *Adverse Effect*
5. **e.** Section 4(f) impacts greater than de minimis
6. **f.** A finding of *May Affect, Likely to Adversely Affect* to Threatened and Endangered Species
7. **g.** Construction of temporary access, or the closure of existing road, bridge, or ramps, that would result in major traffic disruptions
8. **h.** Changes in access control
9. **i.** Floodplain encroachment other than functionally dependent uses (e.g., bridges, wetlands) or actions that facilitate open space use (e.g., recreational trails, bicycle and pedestrian paths)
10. **j.** Construction activities in, across or adjacent to a river component designated or proposed for inclusion in the National System of Wild and Scenic Rivers
11. **k.** No minor public or agency controversy on environmental grounds (no opposition from any organized groups or agencies and no unresolved environmental coordination)
12. **l.** A full Environmental Justice Analysis Report (EJAR) is required (the project must be processed as a D-level CE or higher-level document). If a memo-to-file/letter/IOC-format EJAR Short Report is determined to be the appropriate level of documentation, contact OES regarding NEPA document level.

For certification purposes, documentation is required to illustrate no significant impacts will occur to the following environmental resources and that no unusual circumstances exist that would warrant a higher level of NEPA document. Upload all supporting documentation to the project file.

Ecological

Waterways: Present; No Coast Guard, Individual 404, and/or Section 10 Permit required

Waterways Permit Type: Permit Determination and/or Permit Application Approval Pending

Isolated Wetland Permit No

Will any wetlands be impacted? No

The following Federally Listed Species received an effect determination of May Affect, Not Likely to Adversely Affect:

Species Common Name	Species Scientific Name	Listing Status	Most Recent Coordination Date
Indiana Bat	<i>Myotis sodalis</i>	Endangered	03/11/2024
Northern Long-eared Bat	<i>Myotis septentrionalis</i>	Endangered	03/11/2024
Tricolored Bat	<i>Perimyotis subflavus</i>	Proposed Endangered	03/11/2024

The following Federally Listed Species received an effect determination of No Effect:

Species Common Name	Species Scientific Name	Listing Status	Most Recent Coordination Date
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Species of Concern	03/11/2024
Piping Plover	<i>Charadrius melodus</i>	Endangered	03/11/2024



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Species Common Name	Species Scientific Name	Listing Status	Most Recent Coordination Date
Rufa Red Knot	Calidris canutus rufa	Threatened	03/11/2024

Endangered Species Remarks:

The project may affect, but is not likely to adversely affect the Indiana bat, northern long-eared bat, and tricolored bat. The project is within range of but will have no effect to the bald eagle, piping plover, and rufa red knot.

To avoid adverse effects to the bat species, seasonal tree clearing (October 1 to March 31) will occur for this project. An environmental commitment has been added.

Scenic Rivers

No National Wild and Scenic River
Within 1000 Feet of the Proposed
Project Area

Scenic Rivers Remarks

The nearest scenic river is Little Beaver Creek, located approximately 59 mi. southeast of the project area. No impacts will occur.

Floodplains

100-Year Floodplain:

Encroachment Within the SFHA is a
Functionally Dependent Use

EO 11988 Compliance Met

Yes

NFIP Coordination and Documentation Completed

Yes

NFIP Local Floodplain Coordinator Notification Date:

01/29/2024

Floodplain Remarks

The project is located within a Zone AE regulatory floodway/floodplain. As the proposed project does not change the alignment, grade, or hydraulic capacity of the existing structure, the project is exempt from floodplain permitting due to encroachment upon a Special Flood Hazard Area. Coordination with the local floodplain coordinator was complete 1/29/2024.

Section 4(f)

Section 4(f):

Not present

Section 4(f) Remarks

The nearest 4(f) resource is Bedford Reservation Metropark, located approximately 2,800 ft. west of the project area. No impact to this resource will occur.

Section 6(f)

Section 6(f):

Not present

Cultural Resources

Cultural Resources:

Not Present



**Cultural Resources Coordination - ODOT Approval/SHPO
Concurrence Date**

02/14/2024

Cultural Resources Remarks

The undertaking is limited to a culvert replacement project along Enterprise Parkway found 14 miles southeast of downtown Cleveland, Cuyahoga County, Ohio. The bridge carries the highway over Baldwin Creek just south of the US 422 expressway between the neighborhood communities of Bedford Heights and Solon. The work will focus on the existing right-of-way. However, strip right-of-way is needed to provide access during construction. The construction area is limited to a previously disturbed industrial area with parking lots, underground utilities, and a totally modified landscape. The project will not involve any buildings and no relocations will be required.

The literature search concluded there are no inventoried buildings (OHI), no known archaeological sites (OAI), and no listed or eligible historic properties found in the project area or in the area of potential effects (APE). The existing bridge (SFN 1831006) is a large Type 107N Concrete Frame Culvert built in 1985. TMS mapping suggest the bridge is not historic and the structure was not considered eligible for the National Register based on the Ohio DOT Historic Bridge Inventory (accepted April 28, 2010). The replacement of non-historic bridges and minor roadway projects requiring additional right-of-way measuring less than the width of a full travel lane are activities which are exempt from further cultural resource consideration by the 6/29/23 Cultural Resource PA (Agreement 38503), if the project is not within the boundaries of any historic property or N. R. district.

No comments were received from Tribal consultation.

Environmental Resources Considered

The following environmental resources are present and have been studied for potential impacts:

Air Quality

Regulated Materials

Air Quality:

Studies Not Required

Air Quality - Coordination with OES:

No

Air Remarks

Project area is within a PM2.5 maintenance area but is exempt from air quality conformity per 40CFR93.126 or .128.

Noise Remarks

As this is a Type III project, a noise analysis is not required.

**The project involves ROW acquisition, Deep Excavation, or OEPA
513 Landfill Authorization:**

Yes - Screening

Regulated Materials Review Screening:

No Further Regulated Materials Review

Regulated Materials Review Screening - DEC/OES Approval Date:

03/14/2024

Regulated Materials Review Remarks:

The RMR Screening was approved on March 14, 2024. Based on the information provided, no further RMR or special material is warranted for this project.

Environmental Justice



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Projects that meet C2 criteria must be in accordance with ODOT's EJ Guidance and activities conducted for Public Involvement are commensurate to the project's type and scope of work.

Environmental Justice Populations

Present; No EJAR Required, Does Not Exceed EJ Guidance Criteria, and No Issues Raised During Public Involvement

Identified Environmental Justice Populations

Census Block Group #	% Minority	% Low Income
390351841042	25	18

Environmental Justice Remarks

Based on mapping from TIMS, the minority populations are 25% for the US Census Block Groups located within the project area and 18% of the population is designated as low income.

The proposed project will have no disproportionately high and adverse effects to minority or low-income populations based upon the table above, the attached mapping, and the answers to the questions above. No concerns related to impacts on Environmental Justice 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, DOT Order 5610.2(a), and FHWA Order 6640.23A, no further analysis is required.

Based on the above findings an Environmental Justice Analysis Report is not required.

The proposed new noise barrier project will not impact pedestrian or public transportation facilities.

The Census mapping may be found in the project file under Environmental Justice.

Public Involvement

Public Involvement:

Minimum PI Requirements Met; No Minor Public or Agency Controversy on Environmental Grounds

Public Involvement Remarks

Property owner notification letters were sent to adjacent property owners on February 6, 2024. No comments were received.

Environmental Commitments

Environmental Commitments

Yes



Environmental Commitments

C2

- 1) The City of Solon 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.
- 2) 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 tricolored 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.
- 3) If construction will occur on a bridge structure greater than 20 feet in length over water, between the dates of March 31 and October 1, in areas of the bridge structure that provide suitable habitat for roosting bats, and greater than two years have elapsed since the last inspection for bats, an individual capable of identifying bats shall inspect the structure for bats. If bats are identified within the proposed work area, the following applies and shall be added as a note in the plans: Perform work between October 31 and March 31. The Contractor may work year-round if the Contractor blocks access to portions of the bridge that could become roosting locations prior to April 1. These areas include; vertical crevices sealed at the top, 0.5-1.25" wide, and 4" deep, crevices >12" deep & not sealed, expansion joints, and spaces between concrete end walls and the bridge deck. Provide written confirmation to the Engineer including a statement indicating measures taken to block access to roosting locations. Do not perform Work that would result in harm to the bats.
- 4) The project is located within a FEMA flood zone and will be designed to comply with all applicable Local, State, and Federal floodplain protection standards. Appropriate floodplain permitting shall be obtained prior to the start of construction.
- 5) Aquatic resources adjacent to the project will be indicated on the plans, and the Contractor shall demarcate all aquatic resources in the field per SS 832 and the Waterway Permits Special Provisions. Areas marked for avoidance will not be impacted. In riparian areas, only the minimum amount of vegetated buffer necessary for work will be removed. Temporary and permanent fill materials will consist of suitable materials (excluding broken asphalt) free from toxic contaminants in other than trace quantities. Chromated Copper Arsenate and other pressure treated lumber shall not be used in structures placed within aquatic resources. An oil spill kit shall be located within 150 feet on any equipment working in an aquatic resource and shall be maintained for the life of the project.
- 6) Tree Removal AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal in excess of what is required to implement the project safely.
- 7) Tree Removal AMM 2(a) (OH PBO: A-1). Time of year restrictions for tree removal when bats are not likely to be present - To avoid impacts to summer roosting bats, SWH will be cleared only between 1 October and 31 March, when the species would not be present.
- 8) Tree Removal AMM 3. Ensure tree removal is limited to that specified in project plans by clearly marking clearing limits. Ensure that contractors understand clearing limits and how they are marked in the field.
- 9) ODOT 2019 Construction and Materials Specifications (CMS) and ODOT Supplemental Specification (SS) 813, SS 832, and SS 913 will be followed as applicable to address project lighting, dust control, and construction and post-construction stormwater controls



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- 10) Projects will be developed in full compliance with Sections 404 and 401 of the Clean Water Act and any compensatory stream and/or wetland mitigation will be conducted in accordance with the USACE's Mitigation Rule and Ohio EPA's rules on Water Quality, if necessary.
- 11) Project will follow ODOT CMS 601, ODOT CMS 659, ODOT CMS 670, ODOT CMS 671, ODOT SS 832, ODOT Location and Design Manual, Volume 2.



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Preparers and Approvals

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Emily Dingman
Jeff Ackerman
John Busch

Approvals & Electronic Signatures

Approved & Electronically Signed By:	Approval Date:
Thomas Sorge (PROGRAM ADMIN 3)	7/18/2024



Appendix

General

Aerial Map.pdf

County Map.pdf

General Photographs.pdf

STIP Listing.pdf

Stage 2 Design.pdf

Stage 3 Design.pdf

USGS Quadrangle Topographical Map.pdf

Air

District Determination - No Air Analysis Required.pdf

Noise

District Determination - No Noise Analysis Required.pdf

RMR

OES Review - Asbestos Survey .pdf

OES Review - Screening.pdf

Cultural Resources

Minimal Potential to Cause Effect - Appendix B

Records Check.pdf

Ecological

ODNR Scenic River MOA Conditions

USFWS/ODNR Ecological MOA Conditions

Other Resources

District Determination - Meets Farmlands MOU.pdf

Site Specific Resource Mapping Census Urbanized Area Map.pdf

Site Specific Resource Mapping.pdf

Section 6(f)

LWCF Grant Listing.pdf

Environmental Justice

Census Mapping.pdf



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Public Involvement

Property Owner Notification Letter.pdf

Permits

District Determination - No Floodplain Impacts.pdf

FEMA FIRM.pdf