



# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 04  
2088 SOUTH ARLINGTON RD. • AKRON, OH 44306 • 614-995-7904

## **Environmental Document**

for

### **MAH SR 0534 01.41 PID 96552**

**Environmental Document Level: C2**

**Approved: 12/27/2017**

**Prepared By: District 4**

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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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## C2

<b>PID:</b>	96552
<b>Project Sponsor:</b>	DISTRICT 4-PLANNING
<b>ODOT District:</b>	4
<b>Funding Source:</b>	Federal
<b>Private Funding:</b>	No

### Project Description:

The Ohio Department of Transportation (ODOT) plans to improve State Route (SR) 534 in Berlin and Goshen Townships, Mahoning County, Ohio. The project proposes structure maintenance or rehabilitation on five (5) structures along SR 534 between W. Garfield Road and U.S. Route (USR) 224, as follows:

1. Structure No. MAH-534-1.74/Structure File Number (SFN) 5005639,
2. Structure No. MAH-534-4.91/SFN 5005671,
3. Structure No. MAH-534-5.83/SFN 5005701,
4. Structure No. MAH-534-6.81/SFN 5005736 and
5. Structure No. MAH-534-8.35/SFN 5005779.

Specified below are the proposed maintenance/rehabilitation items associated with these structures.

MAH-534-1.74 (Garfield Ditch): The project proposes minor maintenance to the existing deteriorated 23' concrete slab simple span bridge spanning Garfield Ditch. Maintenance improvements include: patching all unsound areas of the concrete substructure, sealing all patched areas of the concrete substructure with epoxy-urethane, removal of spalled areas from the bottom of the bridge deck floor, sealing of spalled areas of the bridge deck floor with epoxy-urethane, placement of Type B rock channel protection to repair 5' of scour at the forward and rear right wing walls along the right side, clearing/grubbing of vegetation within 15' of the structure and installation of new structure identification signs.

MAH-534-4.91 (Mill Creek): The project proposes rehabilitation of the existing deteriorated 86' continuous concrete slab bridge spanning Mill Creek. Rehabilitation improvements include: removal and replacement of the concrete bridge deck (superstructure) and approach slabs, modification of abutments to an integral design, installation of new slope/rock channel protection, installation of new guardrail, upgrading bridge terminal assemblies, patching unsound areas of the concrete substructure, sealing all patched concrete surfaces, deck edges, abutments, wing walls, piers and pier caps with epoxy-urethane, clearing/grubbing of vegetation within 15' of the structure and installation of new structure identification signs.

MAH-534-5.83 (unnamed tributary to Mill Creek): The project proposes minor maintenance to the existing deteriorated 16' concrete filled culvert conveying an unnamed tributary to Mill Creek under SR 534. Maintenance improvements include: placement of Type B rock channel protection to repair 10' of erosion at



the forward left embankment and 10' of scour at the inlet, 5' of channel cleanout at the inlet and 20' of channel cleanout at the outlet, clearing/grubbing of vegetation within 15' of the structure and installation of new structure identification signs.

MAH-534-6.81 (unnamed tributary to Mill Creek): The project proposes minor maintenance to the existing deteriorated 12' concrete filled culvert conveying an unnamed tributary to Mill Creek under SR 534. Maintenance improvements include: 5' of channel cleanout at the outlet, clearing/grubbing of vegetation within 15' of the structure and installation of new structure identification signs.

MAH-534-8.35 (unnamed tributary to Turkey Broth Creek): The project proposes minor maintenance to the existing deteriorated 18' concrete frame simple span bridge spanning an unnamed tributary to Turkey Broth Creek. Maintenance improvements include: patching all unsound areas of the concrete substructure, 10' of channel cleanout at the inlet and 10' of channel cleanout at the outlet, sealing all patched concrete surfaces, deck edges, abutments and wing walls with epoxy-urethane, placement of Type B rock channel protection to repair roadway embankment erosion located 100' south of the structure and just north of a driveway, clearing/grubbing of vegetation within 15' of the structure and installation of new structure identification signs.

A minimum of one 10' bidirectional lane of traffic shall be maintained at all times along SR 534, except when necessary to close/detour SR 534 for a maximum of sixty (60) consecutive days to replace the concrete deck of the MAH-534-4.91 bridge. The official detour route for this bridge closure will utilize USR 224 and SR 14. No substantial traffic disruptions are anticipated for the project.

New permanent right-of-way and/or temporary right-of-way is not required to construct this project.

Existing utilities within the project study areas will not be impacted/relocated to construct this project.

See additional project description information in the Project File/General/Project Information subsection as Project Description Continued.pdf.

**STIP Reference #**

Statewide Line Item (SLI) Number 32  
and is fiscally constrained.

**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 right-of-way b. Residential or non-residential displacements c. A Coast Guard, Individual Section 404 and/or a Section 10 permit d. A Section 106 finding of Adverse Effect e. A Section 4(f) Programmatic or Individual Evaluation f. A finding of May Affect, Likely to Adversely Affect to Threatened and Endangered Species g. Construction of temporary access, or the closure of existing road, bridge, or ramps, that would result in major traffic disruptions h. Changes in access control 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) 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 k. No minor public or agency controversy on environmental grounds ( no opposition from any organized groups or agencies and no unresolved environmental coordination ) l. If an EJ Analysis Report is required, the project must be processed as a D-level CE or higher level document For certification purposes,



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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.

<b>Waterways:</b>	Present; No Coast Guard, Individual 404, and/or Section 10 Permit required
<b>Waterways Permit Type:</b>	Permit Determination and/or Permit Application Approval Pending
<b>Isolated Wetland Permit</b>	No
<b>Endangered Species:</b>	Present; No finding of May Affect, Likely to Adversely Affect
<b>Endangered Species - Coordination</b>	May Affect, Not Likely to Adversely Affect
<b>Endangered Species - Coordination Date</b>	10/31/2017
<b>Endangered Species - Critical Habitat Present/Impacted</b>	
Indiana bat	
Northern long-eared bat	
<b>Endangered Species - Other Critical Habitat Present/Impacted:</b>	No
<b>100-Year Floodplain:</b>	Encroachment Within the SFHA is a Functionally Dependent Use
<b>EO 11988/NFIP Coordination and Documentation Completed:</b>	Yes
<b>NFIP Local Floodplain Coordinator Notification Date:</b>	12/15/2017
<b>Section 4(f):</b>	Not present
<b>Section 6(f):</b>	Not present
<b>Cultural Resources:</b>	Present; No Finding of Adverse Effect
<b>Cultural Resources Coordination:</b>	Minimum Potential to Cause Effect - Appendix A
<b>Cultural Resources Coordination - ODOT Approval Date:</b>	12/14/2017
Projects that meet C2 criteria are not anticipated to have impacts to the following environmental resources. If resources are present, documentation is only required if there is a potential for impacts.	
<b>Air Quality:</b>	Studies Not Required
<b>Air Quality - Coordination with OES:</b>	No
<b>Noise:</b>	Studies Not Required
<b>Noise Coordination - OES Approval Date:</b>	12/22/2017



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<b>Hazardous Materials - ESA Screening Conducted</b>	Yes
<b>Hazardous Materials - OES Approval Date:</b>	12/13/2017
<b>Phase I ESA Warranted Based on Coordination with OES:</b>	No Further Studies Warranted
<b>Farmland:</b>	Non-Urbanized Area; No Impacts in Accordance With the Farmland MOU, 7 CFR 658, and ORC 929.05
<b>Scenic Rivers</b>	No National Wild and Scenic River Within 1000 Feet of the Proposed Project Area
Projects that meet C2 criteria must be in accordance with ODOT's UP Guidance and activities conducted for Public Involvement are commensurate to the project's type and scope of work.	
<b>Underserved Populations</b>	Does Not Exceed UP Guidance Criteria; No UP Analysis Report Required and No UP Issues Raised During Public Involvement
<b>Public Involvement:</b>	Minimum PI Requirements Met; No Minor Public or Agency Controversy on Environmental Grounds
<b>Environmental Commitments</b>	Yes



## Environmental Commitments

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- 1) The project designer shall incorporate the following note into the plans: ENDANGERED SPECIES HABITAT-INDIANA BAT/NORTHERN LONG-EARED BAT: THE MAH-534-4.91 AND MAH-534-5.83 STRUCTURES ARE LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED AT THESE LOCATIONS 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.
- 2) The project designer shall incorporate the following note into the plans: MATERIALS REMOVED FROM DITCHES, STREAMS AND/OR WETLANDS: THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HAULING OF MATERIAL FROM STREAMS AND DITCHES. THIS PERTAINS TO ANY EXCAVATION OPERATION SUCH AS, FOUNDATION PIER OR ABUTMENT EXCAVATION, CHANNEL CLEAN OUT, EXCAVATION FOR ROCK CHANNEL PROTECTION AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS. ALL MATERIALS REMOVED FROM THE DITCHES, STREAMS AND/OR WETLANDS MUST BE IMMEDIATELY REMOVED TO AN UPLAND SITE AND STABILIZED (I.E., SEEDED) TO PREVENT REDISTRIBUTION INTO ANY WATERS OF THE UNITED STATES. IMMEDIATE REMOVAL IS DEFINED BY THE UNITED STATES ARMY CORPS OF ENGINEERS AS DEPOSITING THE REMOVED MATERIALS DIRECTLY INTO A TRUCK AND REMOVING THE MATERIAL FROM THE SITE; PLACEMENT OF REMOVED MATERIALS INTO A WETLAND OR ON THE BANKS OF A STREAM EVEN TEMPORARILY IS CONSIDERED A FILL AND REQUIRES A PERMIT ACTION. ANY AREAS DISTURBED BY EQUIPMENT ACTIVITIES MUST BE SEEDED WITH NATIVE SPECIES TO PREVENT EROSION OF SEDIMENTS INTO WATERS OF THE UNITED STATES.
- 3) The project designer shall incorporate the following note into the plans: STRUCTURE PAINTING/CONCRETE SEALING OPERATIONS: THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT OR OTHER MATERIALS USED TO REPAIR, CLEAN, PAINT, SEAL OR TREAT ANY STRUCTURE FROM ENTERING ANY STREAMS, WETLANDS OR OTHER WATERS OF THE UNITED STATES AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE.
- 4) The project designer shall incorporate the following note into the plans: MECHANICAL EQUIPMENT OPERATION AT STREAM CHANNEL: THE MECHANICAL EQUIPMENT USED TO EXECUTE THE WORK AUTHORIZED HEREIN SHALL BE OPERATED IN SUCH A WAY AS TO MINIMIZE TURBIDITY THAT COULD DEGRADE WATER QUALITY AND ADVERSELY AFFECT AQUATIC PLANT AND ANIMAL LIFE.
- 5) The project designer shall incorporate the following note into the plans: CONSTRUCTION AND DEMOLITION DEBRIS: THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT CONSTRUCTION AND DEMOLITION DEBRIS FROM ENTERING DITCHES, WETLANDS AND/OR STREAM(S). ANY DEBRIS THAT DOES FALL INTO DITCHES, WETLANDS AND/OR STREAM(S) SHALL BE REMOVED AS SOON AS POSSIBLE WITHIN 72 HOURS.



6) The project designer shall incorporate the following note into the plans: TREE CUTTING/REMOVAL PROHIBITED: THE MAH-534-1.74, MAH-534-6.81 AND MAH-534-8.35 STRUCTURES ARE LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. TREE TRIMMING IS PERMITTED AT THESE LOCATIONS AS DIRECTED BY THE PROJECT ENGINEER, HOWEVER, NO TREES SHALL BE REMOVED AT THESE LOCATIONS. 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.

7) The project designer shall incorporate the following note into the plans: STREAM AVOIDANCE: NO EXCAVATION, GRADING OR FILLING OPERATIONS SHALL BE PERFORMED IN THE STREAM(S) LOCATED AT MAH-534-6.81, MAH-534-8.35 AND STREAM 2 AT MAH-534-5.83 DEPICTED IN THE ECOLOGICAL RESOURCES MAPPING. THE ECOLOGICAL RESOURCES MAPPING IS AVAILABLE FOR INSPECTION AT THE ODOT DISTRICT 4 OFFICE, 2088 SOUTH ARLINGTON, AKRON, OHIO 44306. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE CONSTRUCTION EQUIPMENT AND/OR MATERIALS IN THESE WATERS. ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS SECTION 107.10 (PROTECTION AND RESTORATION OF PROPERTY) PROHIBIT THE CONTRACTOR FROM CREATING STAGING AREAS NEAR STREAMS AND/OR WETLANDS.

8) The project designer shall incorporate the following note into the plans: WETLAND AVOIDANCE: NO EXCAVATION, GRADING OR FILLING OPERATIONS SHALL BE PERFORMED IN THE WETLANDS LOCATED AT MAH-534-8.35. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE CONSTRUCTION EQUIPMENT AND/OR MATERIALS IN THESE WETLANDS.

9) The project designer shall incorporate the following note into the plans: DITCH IMPACTS/AVOIDANCE: THE PROJECT WILL IMPACT AN ESTIMATED 0.0006 ACRE OF JURISDICTIONAL DITCH. THE FOLLOWING DITCHES WILL BE IMPACTED BY THIS PROJECT: DITCH 1 - 0.0006 ACRE UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR IMPACT THE REMAINING AREA OF DITCH 1 BEYOND THE LIMITS DEPICTED IN THE SPECIAL PROVISIONS (WATERWAY PERMIT CONDITIONS) AND IN THE ECOLOGICAL RESOURCES MAP. THE ECOLOGICAL RESOURCES MAP IS AVAILABLE FOR INSPECTION AT THE ODOT DISTRICT 4 OFFICE, 2088 SOUTH ARLINGTON, AKRON, OHIO 44306. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE EQUIPMENT AND/OR MATERIALS WITHIN THE LIMITS OF THIS DITCH. TO PROTECT AND DELINEATE THE BOUNDARY OF THE EXISTING REMAINING AREAS OF DITCH 1, A FILTER FABRIC FENCE AND TEMPORARY CONSTRUCTION FENCE, PER SUPPLEMENTAL SPECIFICATION 832, SHALL BE INSTALLED ADJACENT TO THE DITCH AREAS BY THE CONTRACTOR, MAINTAINING A ONE-FOOT BUFFER BETWEEN THE FENCE AND THE WETLAND BOUNDARIES (WHEN PRACTICABLE), PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES, INCLUDING ANY NECESSARY CLEARING AND GRUBBING ACTIVITIES, AND MAINTAINED BY THE CONTRACTOR THROUGHOUT PROJECT CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE CONSTRUCTION EQUIPMENT AND/OR MATERIALS IN ANY DITCHES, ETC. ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS SECTION 107.10 (PROTECTION AND RESTORATION OF PROPERTY) PROHIBIT THE CONTRACTOR FROM CREATING STAGING AREAS NEAR STREAMS AND/OR WETLANDS.



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### **Preparers and Approvals**

**Form Preparer**

District 4  
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**Supporting Form Preparer(s):**

Matthew Chaney  
Rinaldo Spano  
Sean Carpenter

### **Approvals & Electronic Signatures**

<b>Approved &amp; Electronically Signed By:</b>	<b>Approval Date:</b>
Edward Deley (PROGRAM ADMIN 3)	12/27/2017



## Appendix

### General

USGS Quadrangle Topographical Map.pdf

Project Description Continued.pdf

### ESA

District Determination - No ESA Studies Required.pdf

### Cultural Resources

Records Check.pdf

### Ecological

Coordination with ODNR and USFWS.pdf

USFWS Consultation Form - MAH-534-4.91.pdf

ODNR Comments.pdf

USFWS Consultation Form - MAH-534-5.83.pdf

### Other Resources

Water Source Protection Area Map.pdf

### Underserved Populations

Census Mapping.pdf

Underserved Populations Documentation Form.pdf

### Public Involvement

Emergency and Public Services Notification.pdf

District Website Posting.pdf

Press Release.pdf

Emergency and Public Services Notification List.pdf

### Permits

Project Manager Floodplain Notification .pdf

Public Explanation of Floodplain Impacts.pdf

FEMA FIRM.pdf

Coordination with Local Floodplain Administrator .pdf

Hydrologic and Hydraulic Calculations.pdf

No Rise Certification - ODOT Form LD-50.pdf



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District Determination - No Floodplain Impacts.pdf