

Package Document

Related Packages: [20462 \(Scoping - Approved 05/23/17\)](#)

Funding

Federal Funding? Yes **Federal Oversight?** Yes [Federal Oversight Agreement \(June 2015\)](#)

Type

Is this project being documented as an emergency project? Yes No

Phase: Evaluation

Classification: Categorical Exclusion (Class II)

CE Level: 2

CE Action: 04 05 06 07 08 09
 10 11 12 13 14 Other

List

Projects

PDOT Project Manager: Mark S Rozich

Federal Project Number: N/A

MPMS Projects					
Lead?	Status/Title	District/County	SR/Sec	Description	
<input checked="" type="checkbox"/> 91286	Active / Three Degree Rd	10 / Butler	0228 / 29B	PA 228 from 500 feet east of SR 3015 to 1.0 mile east of SR 3007; Adams Township; Resurfacing;	

	Intersection		Safety improvement
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***The last time MPMS data was added or refreshed was on Monday, 12 November 2018 12:02 PM.**

Project Funding & Fiscal Constraint						
MPMS	FD \$	ROW \$	UTL \$	CON \$	TIP	LRTP Date
91286		4,635,000	1,449,200	21,748,500	FFY 2019 SPC TIP	
<p>For federally funded projects where the construction phase (and if needed, ROW and/or utilities phases) is not programmed on the current TIP, remarks provide a detailed reference to the current LRTP identifying full funding for the project.</p> <p>"LRTP Date" is the date of the last adopted Long Range Transportation Plan.</p> <p>Refer to Supplement to January 28, 2008 "Transportation Planning Requirements and Their Relationship to NEPA Process Completion"</p>						

Editors

Names & Groups: Brandon Rozell/PennDOT BP-000083
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 All District 10 Users

Reviewers

System User Names	Non-System / Other Addresses
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Notify These Additional Emails Upon Approval:

Package was submitted on Wednesday, 05 December 2018 07:56 AM by Jessica L Rizzilli/PennDOT

Email Notify	Reviewed By	Date/Time
EM: Jessica L Rizzilli/PennDOT	Jessica L Rizzilli/PennDOT	Wed, 12/05/18 07:57 AM
ADE: Jim R Andrews/PennDOT	Jim R Andrews/PennDOT	Wed, 12/05/18 08:48 AM
HDTS: Western Region Booker T Bates/PennDOT Brian E Shunk/PennDOT Harrison Knox/PennDOT Jeffrey Bucher/PennDOT Julius B Sanders/PennDOT Keith A Saloum/PennDOT Raymond M DeArmitt/PennDOT Ryan Vankirk/PennDOT Sarah A Cordek/PennDOT	Ryan Vankirk/PennDOT	Wed, 12/05/18 11:42 AM
FHWA: Barbara J Shaffer/PennDOT BP-001391 Camille A Otto/PennDOT BP-001391 Christopher Walston/PennDOT BP-001391 Clint H Beck/PennDOT BP-001391 Deborah Suciusrsmith/PennDOT BP-001391 Edgar Lopez/PennDOT BP-001391 Ezequiel Lujan/PennDOT BP-001391 George Fleagle/PennDOT BP-001391 Jeff Engle/PennDOT BP-001391 Jennifer Crobak/PennDOT BP-001391 Jennifer Elsken/PennDOT BP-001391 Jennifer Horn/PennDOT BP-001391 John Bork/PennDOT BP-001391 Jonathan Buck/PennDOT BP-001391 Jonathan Crum/PennDOT BP-001391 Karyn Vandervoort/PennDOT BP-001391 Keith Lynch/PennDOT BP-001391 Matt Smoker/PennDOT BP-001391 Michael Sherman/PennDOT BP-001391 Pete Nanov/PennDOT BP-001391 Phillip Bobitz/PennDOT BP-001391 Richard Kercher/PennDOT BP-001391 Roger L Ryder/PennDOT BP-001391 Tony Mento/PennDOT BP-001391 Veronica L Feliciano/PennDOT BP-001391	Jonathan Crum/PennDOT BP-001391	Mon, 12/10/18 02:49 PM

CEES Package Number: 25321

Categorical Exclusion Evaluation

MPMS: 91286

Project: Three Degree Rd Intersection



SR/Section: 0228 / 29B

County: Butler

District: 10

CE Level: 2

CE Action: Other

Created: 05/23/17 by Richard T Pavic JR

Submitted: 10/26/18 by Jessica L Rizzilli

Approved: 12/10/18 by Jonathan Crum

CE Evaluation Part A

General Project Identification & Description

Project Identification

Part A Prepared By: Scott Siegart - AD Marble
Chris Robinson - Erdman Anthony

Originating Office: 10 **Date:** 02/21/18

Federal Project Number: N/A

Township/Municipality: Adams Township (10201)
Middlesex Township (10222)

Local Name: Three Degree Rd Intersection

Limits of Work (Segment/Offset)

Start: 0130/0000
End: 0180/000

Construction Stations

Start: 151+00
End: 283+00

Total Length: 13200 ft

Program: 581
NHPP
STP
STU

Funding: federal 80 state 20 local 0 other 0

Have context sensitive solutions and/or smart transportation strategies been integrated into the project? Yes No

Remarks

This project provides a cost efficient option while addressing the transportation needs and safety in the area. A

multi-purpose trail will be constructed along SR 3007 (Three Degree Road) between the Mars Area High School and the Mars Area Middle School.

Date of First Federal Authorization for Preliminary Engineering: N/A

Date of Federal Authorization Time Extension(s) for Preliminary Engineering (if applicable): N/A

Project Description

Include narrative to describe the general project scope of work.

Attach Location Map(s) and Design Plan (only overview and sheets showing limits of work).

This project is a roadway improvement project that consists of connecting into the 5-lane Mars RR Project (ECMS 78016) recently constructed on the western end of the study area, addressing numerous driveway access points from the Mars RR Project east through the schools area, improving the S.R 3007 (Three Degree Road) intersection, and connecting to the S.R. 0228/Balls Bend Project on the eastern end of the study area. Route 228 and reconstruction of approximately 13,200 ft of road along S.R. 0228 and 3,600 ft along S.R. 3007 (see attached Location Map). Several new township roads and extensions will be included to improve access along the corridor. These township roads are listed below from west to east: - Township Road E - This new road will serve as a frontage road for properties along the south side of S.R. 0228 and will connect into S.R. 0228 via a new signalized intersection at relocated Brickyard Road. This will then eliminate the numerous driveways and left-turns in this area. -Township Road D - This extension of Gables Court will provide a new connection from S.R. 0228 to Brickyard Road. This will also extend to connect Township Road E to S.R. 0228 at a new signalized intersection. - Township Road C - This road extends existing Brickyard Road in front of the Mars School Administration Building to the Mars Home for Youth property. It acts as a frontage road by eliminating all the school drives on the north side of S.R. 0228 by providing them safer access through the new signalized intersection at Township Road D. - Township Road K - This new road is located behind the Mars High School and serves as a new access point to replace the 2 existing driveways along S.R. 0228. It will access Three Degree Road via a roundabout. - Driveway B - This is a relocated driveway between the Mars Middle School and the football field to separate turning movements for the school from the turn lanes for the S.R. 0228/Three Degree Road signalized intersection.

Project Purpose and Need

Include narrative to describe the project need.

Purpose: The purpose of the project is to improve mobility and safety for the traveling public including pedestrians, as well as, the transport of goods and services along the SR 0228 corridor through the area of Three Degree Road, The Mars Home for Youth, and the Mars Area School District Complex by addressing the project needs.

Need(s): 1. Capacity Capacity analyses were performed for the two intersections on this section of SR 0228 using the 2035 Design Year future traffic volumes. The intersections analyzed included the signalized intersection of SR 0228 and Three Degree Road and the unsignalized T-intersection of SR 0228 and Brickyard Road (T-391). Under Year 2035, no build conditions, the SR 0228/SR 3007 intersection is projected to operate in an overall LOS F and E during the AM and PM peak hours, respectively. Multiple approaches are projected to operate at LOS F with delays of over 100 seconds. Under Year 2035, no build conditions, the Brickyard Road approach to the SR 0228/Brickyard Road intersection is projected to operate at LOS F in both the AM and PM peaks with delays of over 100 seconds. 2. Access SR 0228 is utilized as a regional through highway and a local access road passing through several communities while providing access to residential areas, businesses, and community facilities. SR 0228 services numerous driveways while also serving truck traffic and through traffic. In the study area for Section 29B, numerous driveways are present including those servicing the Mars Home for Youth and the Mars Area Primary, Middle and High Schools. Conflicts between the through and local trips are prevalent because the lack of turning lanes, and narrow shoulders force vehicles to queue behind turning vehicles. This line of vehicles can become lengthy because few gaps exist in the oncoming vehicle stream for turning vehicles to utilize. Also, it is becoming quite difficult for left-turns to be made from driveways onto SR 0228 due to the high traffic volumes in the peak hours. Safety is also a concern with the numerous driveways as most crashes in this section of roadway occur at driveways and intersections. As the traffic volumes continue to increase, turning vehicles will become even a larger problem. 3. Safety Due to the high usage of SR 0228 and the conflicts between local and through traffic, safety along this facility is a concern. A 2013 safety study performed by the PennDOT District 10-0 Traffic unit examined the 5-year crash history (2007-2011) for the project area. The calculated crash rate for the project area is greater than the statewide crash rate for this type of highway. Conflict between different modes of transportation are also apparent, particularly in the area of the Mars Home for Youth and Mars Area School District complex. These pedestrian generators have facilities located on three of the four quadrants of the SR 0228/SR 3007 intersection. There are no existing sidewalks along SR 0228 or SR 3007, and there are no crosswalks at the SR 0228/SR 3007 intersection. Pedestrians are forced to use the existing shoulder and cross SR 0228 and SR 3007 at unmarked access points. Pedestrians include both school students and patrons of various athletic events at both the Middle and High School athletic fields.

Project Setting and Distinct Project Features

Provide narrative to adequately describe the project setting (terrain, locale, land use, presence of bicycle/pedestrian or other unique facilities, etc.) and support the evaluation. Any additional information not otherwise covered by this form that is necessary to clearly understand project circumstances should also be included in this section. Narrative should be appropriate for the complexity of the CEE and project circumstances with the length and content varying accordingly.

The SR 0228 Improvement Project study area is located approximately 18 miles north of Pittsburgh and 12 miles south of Butler. The project is in a suburban environment with schools and residences lining the corridor. Within the project area, the Mars Home for Youth, the George Ebert House and the Mars Area School District Athletic Fields are classified as Section 4 (f) resources.

Describe the involvement with utilities with this project.

Electric, Sewer, Water, Gas, Data/Comm

Describe the involvement with any railroad (active or inactive) including all rail lines, crossings, bridges, or signals.

No railroad involvement.

Describe changes to access control.

Driveways along SR 0228 will be restricted to right-in right-out by means of a physical median. Driveways will be connected to frontage roads which will access SR 0228 at a new signalized intersection or SR 3007 at a new roundabout. Jughandles will be provided on SR 0228 to accommodate turnarounds.

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments

1. [StudyArea.pdf](#) (3736KB / 3.6MB)
2. [Route 228 strategy meeting minutes.pdf](#) (1365KB / 1.3MB)
3. [Figure1_Project Location_ThreeDegreeRoad.pdf](#) (523KB / 0.5MB)

CE Evaluation Part A

Engineering Information

Design Criteria

Roadway Description: 0228-MARS CRIDER RD

Functional Classification: Principal Arterial Urban Rural

Current ADT: 18,353

Design Year No-Build / Build ADT, as well as Current / Design Year Build LOS, is only necessary when PM2.5 hot spot analysis is required.

If PM2.5 hot spot analysis is not needed (see exempt project list in Air Quality Handbook, Pub #321), "N/A" can be entered for these values.

Design Year No-Build ADT: 22,085

Current LOS: D

Design Year Build ADT: 22,085

Design Year Build LOS: D

DHV: 1767

Truck %: 9

D (Directional Distribution) %: 60

Design Speed: 45 mi/h

Posted Speed: 45 mi/h

Required Minimum Widths

Lane Width: 11 ft

Shoulder Width: 10 ft

Bridge Curb-to-Curb: NA ft

Design Exception Required? Yes No

If "Yes", explain.

Typology: Regional Arterial – Suburban Corridor

Topography: Level Rolling Mountainous

Proposed Design Criteria: New and Reconstruction

Traffic Control Measures

The following traffic control measures will be implemented:

- Temporary Bridge(s)
- Temporary Roadway
- Detour
- Ramp Closure
- Other (specify)
- None

Other Description: Staged construction maintaining one lane per direction

If any of the above traffic control measures will be implemented, indicate the following conditions.

Provisions for access by local traffic will be made and so posted. True False

Through-traffic dependent business will not be adversely affected. True False

There will be no interference with any local special event or festival. True False

There will be no substantial environmental consequences associated with the traffic control measure(s). True False

There is no substantial controversy associated with the traffic control measure(s). True False

There are no substantial impacts to bicycle or pedestrian routes. True False

If the answer to any of the above questions was "False", please explain.

Estimated Costs

Engineering: \$ 981,400 **Right-of-Way:** \$ 4,635,000 **Construction:** \$ 21,748,500 **Utilities:** \$ 1,449,200

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments

CE Evaluation Part A

Roadway

No roadways included with this project

Roadway Description

0228-MARS CRIDER RD

	Existing	Proposed
Number of Lanes:	2	4-5
Lane Width:	11 ft	11 ft
Shoulder Width:	4 ft	10 ft
Median Width:	0 ft	0-14 ft
Sidewalk Width:	0 ft	5 ft
Bicycle Lane Width:	N/A ft	N/A ft
Clear Zone Width:	15 ft	24 ft

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments

CE Evaluation Part A
Structure

No structures included with this project

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments

CE Evaluation Part B, Section A-1
Environmental Evaluation Subject Areas (Aquatic Resources)

Federal Project Number: N/A

1. AQUATIC RESOURCES

	PRESENCE	IMPACTS²
STREAMS, RIVERS & WATERCOURSES¹	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	
Intermittent (streams only)	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	<input type="radio"/> No <input checked="" type="radio"/> Yes
Perennial	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	<input type="radio"/> No <input checked="" type="radio"/> Yes
Wild trout streams	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes
Stocked trout streams	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes

Identify all streams and their classifications per Chapter 93 of 25 PA Code (e.g. CWF, WWF, HQ, EV)

All of the streams within the project study area (PSA) are documented under the Pennsylvania Department of Environmental Protection's (PADEP) Chapter 93 Water Quality Standards as a Warm Water Fishers (WWF).

Linear feet of Streams permanently impacted: 1,537

Describe Any Permanent Impacts

Approximately 1,537 lineal feet of permanent stream impacts are anticipated to nine (9) identified streams in the PSA. Approximately 911 lineal feet of perennial stream and 626 lineal feet of intermittent stream will be permanently impacted due to the project fill slopes and culvert extensions. Therefore, mitigation in the form of riparian plantings is proposed.

Describe Any Temporary Impacts

Minor temporary stream impacts to eight (8) of the identified streams in the PSA are expected to result from construction activities (approximately 385 linear feet). Approximately 248 lineal feet of perennial stream and 137 lineal feet of intermittent stream will be temporarily impacted by construction access and the removal of the existing structures as well as placement of the proposed structures. All impacts will be minimized to the extent possible by the implementation of an approved erosion and sedimentation control plan.

Is mitigation incorporated? No Yes

Project Specific *linear feet*
Restoration/Enhancement:

Advanced Compensation/Banking: *linear feet*

Other:

Mitigation Remarks

Mitigation in the form of riparian plantings proposed.

Remarks

Seven (7) perennial streams: S-1, S-2, S-3, S-4, S-5, S-6, and S-7; and seven (7) intermittent streams UNT-1, UNT-2, UNT-3, UNT-4, UNT-5, UNT-6, and UNT-7; are located within the project study area (PSA). The streams within the PSA are Chapter 93 designated Warm Water Fishes (WWF), and are either tributaries to Breakneck Creek or Glade Run. None of the streams are Pennsylvania Fish and Boat Commission Approved Trout Waters, Class A Wild Trout Streams, listed with Naturally Reproducing Trout, US Army Corps of Engineers Designated Navigable Waterways, PFBC Designated Water Trails, nor are they State or Federal Wild & Scenic Rivers. Please see the attached Aquatic Resources Report and Stream Data Forms located in the technical file.

PRESENCE

IMPACTS²

FEDERAL WILD & SCENIC RIVERS & STREAMS¹

Not Present Present

No Yes

Remarks

According to the Federal Wild & Scenic River & Streams in USC Title 16 Chapter 28, no federal wild and scenic rivers and streams are present within the project study area. According to the Pennsylvania Wild & Scenic River & Streams, P.L. 1277, Act No. 283 as amended by Act 110, May 7, 1982, no state scenic rivers and streams are present within the project study area.

<http://www.dcnr.state.pa.us/brc/rivers/scenicrivers/act.aspx>

PRESENCE

IMPACTS²

STATE SCENIC RIVERS & STREAMS¹

Not Present Present

No Yes

Remarks

According to the Federal Wild & Scenic River & Streams in USC Title 16 Chapter 28, no federal wild and scenic rivers and streams are present within the project study area. According to the Pennsylvania Wild & Scenic River & Streams, P.L. 1277, Act No. 283 as amended by Act 110, May 7, 1982, no state scenic rivers and streams are present within the

project study area.

<http://www.dcnr.state.pa.us/brc/rivers/scenicrivers/act.aspx>

PRESENCE

IMPACTS²

NAVIGABLE WATERWAYS¹

Not Present Present

Remarks

None of the streams in the project area are listed by the PFBC as a designated water trail. Therefore, no impacts will occur. Supporting Link: <http://fishandboat.com/watertrails/index.htm>

Verified through a review of the Mars and Valencia, PA U.S. 7.5 minute Quad maps, the PennDOT Design Manual 2, consultation of the Streams Declared Navigable by the United States Army Corps of Engineers (USACE) List and a field view of the project area.

PRESENCE

IMPACTS²

OTHER SURFACE WATERS¹

Not Present Present

Remarks

Review of the Mars and Valencia, PA U.S. 7.5 minute Quad maps and field investigations determined that no other surface waters are present in the project area.

PRESENCE

IMPACTS²

GROUNDWATER RESOURCES¹

Not Present Present

Remarks

Review of the current survey mapping and field investigations determined that no other groundwater resources are present in the project area. Residential water supplies are provided entirely by public water supply sources.

<http://www.dcnr.state.pa.us/topogeo/groundwater/pagwis/records/index.htm>

PRESENCE

IMPACTS²

WETLANDS¹

Not Present Present

Open Water

Not Present Present

No Yes

Vegetated

Emergent	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	<input type="radio"/> No <input checked="" type="radio"/> Yes
Scrub Shrub	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	<input type="radio"/> No <input checked="" type="radio"/> Yes
Forested	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	<input type="radio"/> No <input checked="" type="radio"/> Yes
Exceptional Value	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes

Documentation³

- Data Forms
- Wetland Identification and Delineation Report
- Conceptual Mitigation Plan
- 404 (b)(1) Alternative Analysis
- Jurisdictional Determination
- Functional Assessment Analysis

Methodology

As a result of the field investigation conducted on 11/28/2012, 06/14/2013, and 11/02/2016, sixteen(16) wetlands (1.393 acres) were delineated within the project study area. The wetland investigation was conducted in accordance with the U.S. Army Corps of Engineers Wetland Delineation Manual (Technical Report Y-87-1), the Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region, Pennsylvania Department of Environmental Protection (PADEP) Chapter 105 Regulations, Section 404 of the Federal Clean Water Act, and PennDOT Wetland Finding Procedures. During field research, sixteen (16) wetlands were delineated within the project study area. W-A (PSS) [0.15 acres], W-B (PEM)[0.019 acres], W-C (PEM)[0.126 acres], W-D(PEM)[0.133 acres], W-E(PEM)[0.040 acres], W-F(PEM)[0.028 acres], W-G (PEM)[0.196 acres], W-H(PEM)[0.016 acres], W-I(PFO)[0.199 acres], W-J(PEM)[0.167 acres], W-K(PEM)[0.100 acres], W-L(POW)[0.039 acres], W-M(PEM) [0.207 acres], W-N(PEM)[0.014 acres], W-O(PEM)[0.086 acres], and W-P(PEM)[0.008 acres] were identified and delineated within the project limits.

Number of Wetlands permanently impacted: 10

Acreage of Wetlands permanently impacted: 0.407

Describe Any Permanent Impacts

Permanent wetland impacts (0.407 acres) are anticipated from the placement of fill and construction access for wetlands: (W-A [0.015 acres], W-B [0.019 acres], W-C [0.053 acres], W-D [0.133 acres], W-G [0.063 acres], W-H [0.016 acres], W-I [0.033 acres], W-K [0.004 acres], W-M[0.021 acres], and W-O [0.049 acres].

Total Anticipated Impacts:

PEM: 0.358 acres

PSS: 0.015 acres

PFO:0.033 acres

Describe Any Temporary Impacts

Temporary wetland impacts of approximately 0.226 acres are anticipated from construction access for wetlands: W-C [0.019 acres], W-G [0.061 acres], W-I [0.088 acres], W-K [0.024 acres], and W-O [0.034 acres]

Orange construction fence will be installed to protect wetland areas not impacted by construction activities.

Is mitigation incorporated? No Yes

Project Specific 0.407 acres

Replacement/Construction:

Banking: acres

Bank to be Debited:

Restoration: acres

Preservation: acres

In-Lieu Fee: whole dollars

Other:

Mitigation Remarks

Permanent wetland impacts amount to 0.407 acres which is greater than the de minimis threshold of 0.05 acres.

Therefore, compensated wetland replacement will be necessary.

Wetland replacement is anticipated to take place either onsite or at an offsite location.

A combination of contribution to the PennDOT Wetland Bank and wetland replacement may be necessary.

Options for replacement will occur during Final Design and coordinated during the permitting process for the project.

Executive Order 11990 Compliance

Compliance requires the determination that there is no practicable alternative to the proposed construction in wetlands and the proposed action includes all practicable measures to minimize harm to wetlands which may result from such use.

Options/design modifications were investigated to avoid impacts to wetlands: Yes No N/A

There are no practicable alternatives to construction within the wetlands: Yes No N/A

Alternative chosen (proposed project) includes all practicable measures to minimize harm to wetlands: Yes No N/A

If the answer to any of the above three questions is No, provide an explanation in the Remarks Section below.

Remarks

	PRESENCE	IMPACTS²
COASTAL ZONE¹	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes

Remarks

Based on a review of existing PADEP Coastal Zone Management Plans there are no identified coastal zone areas within District 10-0.

	PRESENCE	IMPACTS²
FLOODPLAINS¹	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes

Remarks

Based on a review of FEMA mapping there are no floodplains identified within the project study area.

SOIL EROSION & SEDIMENTATION¹

Are there activities that could cause erosion or sedimentation and would require E&S Controls? Yes No N/A

Documentation³

- Coordination w/County Conservation District
- E&S Control Plan
- NPDES Stormwater Construction Permit

Is mitigation incorporated? No Yes

Remarks

The project erosion and sedimentation (E&S) control efforts will be coordinated with the Butler County Conservation District and the PADEP. No permanent soil erosion and sedimentation impacts are anticipated as a result of this project. An E&S Control Plan approved by the Butler County Conservation District will be implemented for the proposed project. Best Management Practices (BMP's) will be coordinated with Butler County Conservation District and implemented during construction. All disturbed areas within the project will be re-vegetated with non-invasive vegetation.

-
- 1 If the resource is not present, do not complete the remainder of this subject area.
 - 2 If the resource is present but no impacts are anticipated, describe in Remarks why there will be no impact. If there will be no impact because avoidance/mitigation measures will be included, describe those in the mitigation text box provided.
 - 3 Unless required as an attachment, documentation for subject areas should be maintained in the project's Technical Support Data and does not need to be submitted with the CEE.
-

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments

CE Evaluation Part B, Section A-2
Environmental Evaluation Subject Areas (Land)

2. LAND

	PRESENCE	IMPACTS²
AGRICULTURAL RESOURCES¹	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	
Productive Agricultural Land	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes
Agricultural Security Areas	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes
Prime Agricultural Land	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes
Agricultural Conservation Easements	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes
Farmland Enrolled in Preferential Tax Assessments	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes
Agricultural Zoning	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes
Soil Capability Classes I, II, III, IV	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	<input type="radio"/> No <input checked="" type="radio"/> Yes
Prime or Unique Soil	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	<input type="radio"/> No <input checked="" type="radio"/> Yes
Statewide or Locally Important Soils	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	<input type="radio"/> No <input checked="" type="radio"/> Yes

Documentation³

- Farmland Assessment Report
- ALCAB Approval
- Agricultural Land Preservation Policy Conformance Statement
- Form AD-1006 - Farmland Conversion Impact Rating or Form NRCS-CPA-106 for Corridor Type Projects
- Coordination with County Tax Assessor

Describe Any Permanent and Temporary Impacts

Minor required right-of-way and temporary construction easements will be required from prime farmland soils and farmland of statewide soils.

Is mitigation incorporated? No Yes

Remarks

Since the project is an upgrade of an existing transportation facility, it is exempt from Acts 43 and 100. An analysis of the Butler County Soil Survey conducted for the Farmland Protection Policy Act of 1981 (FPPA) determined that FPPA farmland soils are present and will be impacted within the S.R. 0228 project area. FPPA farmland soils present are prime farmland and farmland of statewide as defined by the Natural Resources Conservation Service (NRCS) based on the underlying soil types. The impacted prime farmland soil types found within the project area are: Cookport loam, 3 to 8 percent slopes (CoB); Gilpin silt loam, 3 to 8 percent slopes (GIB); Tilsit silt loam, 0 to 3 percent slopes (TaA);

and Wharton silt loam, 3 to 8 percent slopes (WaB). The impacted soil types considered farmland of statewide importance found within the project area are: CIA Cavode silt loam, 0 to 3 percent slopes: Cavode silt loam, 3 to 8 percent slopes (CIB); Cavode silt loam, 8 to 15 percent slopes (CIC); Ernest silt loam, 8 to 15 percent slopes (ErC); Gilpin silt loam, 8 to 15 percent slopes (GIC); Gilpin-Upshur complex, 8 to 15 percent slopes (GnC); Gilpin-Weikert channery silt loams, 8 to 15 percent slopes (GoC); Gilpin-Wharton silt loams, 8 to 15 percent slopes (GpC); Tilsit silt loam, 3 to 8 percent slopes (TaB); Vandergrift-Cavode silt loams, 3 to 8 percent slopes (VcB); Vandergrift-Cavode silt loams, 8 to 15 percent slopes (VcC). There are no Clean and Green, conservation easements, or known Agricultural Security Areas in the project area. The project will not involve active farmland, however, right-of-way acquisition of prime farmland and farmland of statewide will be required. There is no feasible design alternative that would avoid conversion of prime agricultural land without impacting other environmental resources. Therefore this project is in conformance with 4 Pa Code Chapter 7, Section 7.301 et seq., ALPP. The completed FPPA Form AD-1006 can be found in the technical file. Since the total site assessment points were below 60, no further action on Form AD-1006 was required.

VEGETATION¹	PRESENCE	IMPACTS²
	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	
Landscaped	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	<input type="radio"/> No <input checked="" type="radio"/> Yes
Agricultural	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes
Forest Land	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	<input type="radio"/> No <input checked="" type="radio"/> Yes
Rangeland	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes
Other (describe in remarks)	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes

Describe Any Permanent and Temporary Impacts

Minor permanent impacts to landscaped vegetation and small forested area are anticipated due to construction activities associated with the intersection improvement.

Invasive Non-Native Plants are Present

Mitigation:

Are measures being taken to minimize movement of invasive plant parts (roots, tubers, seeds)? Yes No

Will native plants be used in project landscaping or mitigation? Yes No **If Yes, explain in Describe Mitigation.**

Other? Yes No **If Yes, explain in Describe Mitigation.**

Remarks

All disturbed areas will be graded, seeded, and mulched in accordance with PENNDOT Publication 408 and special provisions.

	PRESENCE	IMPACTS²
GEOLOGIC RESOURCES¹	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	
Remarks		
Through coordination with the PA Natural Heritage Program (PNHP), it was determined that no unique geologic resources are known to occur within the project study area. PNHP's website is: http://www.naturalheritage.state.pa.us/		

	PRESENCE	IMPACTS²
PARKS & RECREATION FACILITIES¹	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	
National	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes
State	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes
Local	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes
Other (describe in remarks)	<input type="radio"/> Not Present <input checked="" type="radio"/> Present	<input checked="" type="radio"/> No <input type="radio"/> Yes

If any Impacts are "Yes", a Section 4(f) Evaluation may be needed.

Were any of the impacted properties acquired through the use of : (If applicable, check one or more of the boxes below)

- Land and Water Conservation Fund (Section 6(f))
- Project 70 Fund
- Project 500 Fund
- Recreational Improvement and Rehabilitation Act (RIRA)
- Growing Greener Bond Fund (GG2)
- Keystone Recreation, Park and Conservation Fund (Key 93)
- Environmental Stewardship Fund Act (ESF)

Documentation³

- Coordination with DCNR as representative for NPS (LWCF)
- Coordination with DCNR and PA General Assembly (Project 70)
- Coordination with DCNR (Project 500, GG2, Key93, RIRA or ESF)

Describe Any Permanent and Temporary Impacts

None

Is mitigation incorporated? No Yes

Remarks

There are three (3) recreational facilities owned by the Mars Area School District: Senior High School tennis courts; Middle School athletic track; and Elementary School baseball field.

FOREST & GAMELANDS¹ **PRESENCE** **IMPACTS²**
 Not Present Present

Remarks

WILDERNESS, NATURAL & WILD AREAS¹ **PRESENCE** **IMPACTS²**
 Not Present Present

Remarks

A field and background investigations determined that no wilderness, natural and wild areas are known to occur within the project study area. Background information utilized included the Pennsylvania Department of Conservation and Natural Resources (PADCNR) website.

NATIONAL NATURAL LANDMARKS¹ **PRESENCE** **IMPACTS²**
 Not Present Present No Yes

Remarks

A review of the National Park Service's National Registry of Landmarks did not reveal the presence of these resources

HAZARDOUS OR RESIDUAL WASTE SITES¹ **PRESENCE** **IMPACTS²**
 Not Present Present No Yes

Documentation³

- Phase I
- Phase II
- Phase III
- Other
- No Documentation Required

Describe Any Permanent and Temporary Impacts

Is remediation/mitigation incorporated? No Yes Unknown at this time

Remarks

A field view of the project study area was conducted on September 23, 2016 to update the previously performed studies and report. Six sites were identified within the project vicinity of S.R. 0228 at Three Degree Road including: J & J Emergency Vehicle Service (now Quality EMS), Saul J. Rubin Drum and Barrel Company, Quality Gardens Inc., Hutchinson's Dry Cleaners, and Private UST(s) and the former trailer park.

Based on the current design plans and site conditions a recommendation of "no further action required" is given for the following sites: J & J Emergency Vehicle Service, Saul J. Rubin Drum and Barrel Company, Quality Gardens Inc. and the former trailer park.

The Phase I ESA Update Letter Report dated November 2, 2016 is located in the technical file.

-
- 1 If the resource is not present, do not complete the remainder of this subject area.**
 - 2 If the resource is present but no impacts are anticipated, describe in Remarks why there will be no impact. If there will be no impact because avoidance/mitigation measures will be included, describe those in the mitigation text box provided.**
 - 3 Unless required as an attachment, documentation for subject areas should be maintained in the project's Technical Support Data and does not need to be submitted with the CEE.**
-

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments

CE Evaluation Part B, Section A-3
Environmental Evaluation Subject Areas (Wildlife)

3. WILDLIFE

	PRESENCE	IMPACTS²
WILDLIFE & HABITAT¹	<input checked="" type="radio"/> Not Present <input type="radio"/> Present	
Remarks		

	PRESENCE	IMPACTS²
THREATENED & ENDANGERED PLANTS & ANIMALS¹	<input checked="" type="radio"/> Not Present <input type="radio"/> Present <input type="radio"/> No Coordination Needed	<input checked="" type="checkbox"/> No Potential Impacts <input type="checkbox"/> Potential Impacts with Avoidance Measures <input type="checkbox"/> Potential Impacts with Conservation Measures <input type="checkbox"/> Potential Impacts

Reviews, concurrences and approvals for Threatened and Endangered Species searches/coordination are time sensitive.

If the coordination is greater than two years old, a new coordination effort will be required with the commenting/review agency(s).

Documentation

PNDI ER Receipt

Agency Documentation

- PFBC Correspondence
- PGC Correspondence
- DCNR Correspondence
- USFWS Correspondence

Remarks

A PNDI ran on 3/31/17 did not identify the existence of any T&E species within the project area. The PNDI receipt is valid for two years.

1 If the resource is not present, do not complete the remainder of this subject area.

- 2 If the resource is present but no impacts are anticipated, describe in Remarks why there will be no impact. If there will be no impact because avoidance/mitigation measures will be included, describe those in the mitigation text box provided.
 - 3 Unless required as an attachment, documentation for subject areas should be maintained in the project's Technical Support Data and does not need to be submitted with the CEE.
-

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments

1. [SR 228-29B_PNDI 03-31-17.pdf](#) (1225KB / 1.2MB)

CE Evaluation Part B, Section A-4
Environmental Evaluation Subject Areas (Cultural Resources)

4. CULTURAL RESOURCES

Were Cultural Resource Professionals (CRPs) needed for project scoping? Yes No

CRP Scoping Field View Date: 06/12/12

CRP Architectural Historian in Attendance: Jonathan Daily

CRP Archaeologist in Attendance: Susanne Haney

Was a Project Early Notification / Scoping Results Form completed? Yes No

For projects exempted from further Section 106 review under Appendix C of the Statewide Section 106 Programmatic Agreement, determine whether eligible resources are present for application of Section 4(f).

Is the project exempted from review by the District Designee or CRP as per Appendix C of the Statewide Section 106 Programmatic Agreement? Yes No

Is the project exempted from review by the District Designee or CRP as per Stipulation III of the Emergency Relief Projects Programmatic Agreement (2005)? Yes No

	<u>PRESENCE</u>				<u>LEVEL OF EFFECTS</u>		
	Not Present	Potentially Eligible Resource Present	Eligible Resource Present	Listed Resource Present	No Historic Properties Affected	No Adverse Effect	Adverse Effect
CULTURAL RESOURCES	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Archaeology</u>							
Pre-Contact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Contact Native American:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Historic:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Above-Ground Historic Properties</u>							

Structure/Building:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
District:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Documentation

Conclusion of Section 106 consultation must be documented in the following ways:

For projects having an adverse effect, one of the following:

- Memorandum of Agreement (MOA)
- Letter of Agreement (LOA)
- Memorandum of Understanding (MOU)
- Letter of Understanding (LOU)
- Specific Programmatic Agreement (PA)
- Standard Treatment
- Deferral of Archaeological Testing

For projects not having a known adverse effect, one from each column:

Above-Ground Historic Properties

- Above-Ground Historic Properties Field Assessment and Finding
- Above-Ground Historic Properties Finding Letter
- Section 106 (Above-Ground Historic Properties) Effect Concurrence Letter
- TE Project Field Assessment and Finding Checklist

Archaeology

- Archaeology Field Assessment and Finding
- Archaeology Finding Letter
- Section 106 (Archaeology) Effect Concurrence Letter
- TE Project Field Assessment and Finding Checklist
- Deferred Archaeological Testing Form
- Project Specific Programmatic Agreement

Supplemental documentation should be completed as warranted:

- Historic Structures Survey / Determination of Eligibility Report
- Phase Ia Archaeological Sensitivity Report
- Geomorphological Survey Report
- Archaeological Disturbance Report
- Archaeology Identification (Phase I) Report
- Archaeology Negative Survey Form
- Archaeology Evaluation (Phase II) Report
- Combined Archaeology Identification/Evaluation Report
- Determination of Effects Report
- (Bridge) Feasibility Report
- Other **(describe in remarks)**

Include Section 106 Public Involvement in Part B, Section C, Public Involvement.

Describe Any Permanent and Temporary Impacts

The George Ebert House was determined eligible for the NRHP on April 14, 2004, under Criterion C as an example of the Italianate style. The George Ebert House will be impacted with approximately 0.31 acre of right-of-way and 0.09 acre of temporary construction easement to be acquired. The land used by the project includes portions of the driveway, maintained lawn, and wooded land.

The Mars Home for Youth was determined eligible for the NRHP on September 17, 2004, under Criterion A for its association with the history of social agencies, and under Criterion C for its Tudor Revival style architecture. The Mars Home for Youth will be impacted with approximately 3.2 acres of right-of-way acquisition and 1.4 acres of temporary construction easement to be acquired. The majority of this frontage consists of maintained lawn; however, one contributing resource, the Maintenance Residence, would be demolished.

Are mitigation and/or standard treatments required? No Yes

Remarks

The United Presbyterian Orphan's Home/Mars Home for Youth (Key No. 127642, determined eligible for the National Register in 2004); the George Ebert House (Key No. 127643, determined eligible for the National Register in 2004); and Galletta's Winter Haven (Key No. 127649, determined eligible for the National Register in 2004).

Additional Information

Remarks, Footnotes, Supplemental Data

Combined Field Assessments and Findings was posted to Project Path on 3/14/18. The Three Degree Road Mars Crider Road Intersection Project Executed Memorandum of Agreement is attached. The Individual Section 4(f) Evaluation has been found 'legally sufficient', and is attached to this CE Part B: Section A-5.

Attachments

1. [Three Degree Rd Mars Crider Rd Int Project Executed MOA.pdf](#) (2928KB / 2.9MB)

CE Evaluation Part B, Section A-5
Environmental Evaluation Subject Areas (Section 4(f) Resources)

5. SECTION 4(f) RESOURCES

SECTION 4(f) RESOURCES **PRESENCE** **USE¹**
 Not Present Present No Yes

Documentation²

- Individual Section 4(f) Evaluation
- Programmatic Section 4(f) Evaluation
- Section 2002 Evaluation
- De Minimis Use/No Adverse Use Checklist
- Non-Applicability/No Use Checklist
- Temporary Use Checklist
- FHWA Coordination Documents

Will temporary easements during construction be necessary from Section 4(f) resources? No Yes

Describe Any Permanent and Temporary Impacts

The proposed project [Online Realignment Alternative (Alternative 1)] would impact three Section 4(f) properties: the George Ebert House, the Mars Home for Youth, and the Mars Area School District Athletic Field.

The George Ebert House will be impacted with approximately 0.31 acre of right-of-way and 0.09 acre of temporary construction easement to be acquired. The land used by the project includes portions of the driveway, maintained lawn, and wooded land.

The Mars Home for Youth will be impacted with approximately 3.2 acres of right-of-way acquisition and 1.4 acres of temporary construction easement to be acquired. The majority of this frontage consists of maintained lawn; however, one contributing resource, the Maintenance Residence, would be demolished.

The Mars Area School District Athletic Field will not require permanent right-of-way, but a temporary construction easement totaling 0.41 acre is necessary in order to construct a new driveway to the athletic field and to the school parking lot. The land included in the temporary construction easement primarily consists of grass yard between the school and the field.

There is no Section 4(f) use to the Mars Areas School District Baseball Fields, the Mars Area School District Athletic Courts, Galletta's Winter Haven, the Mars Area School District Softball Fields, or the William Hays Farm from this alternative.

Is mitigation incorporated? No Yes

Describe Mitigation

A historical narrative and an interpretive panel will be prepared for the Mars Home for Youth.

Remarks

One Individual Section 4(f) document has been prepared for the six (6) Section 4(f) resources within the APE including three (3) National Register Eligible resources and three (3) recreational Section 4(f) resources. The three National Register Eligible resources are: The United Presbyterian Orphan's Home/Mars Home for Youth; the George Ebert House; and Galletta's Winter Haven. The three recreational Section 4(f) resources are owned by the Mars Area School District but are open to the public for use during non-school hours and include: Senior High School tennis courts; Middle School athletic track; and Elementary School baseball field.

The Final Section 4(f) Evaluation is located in the project technical file. The FHWA legal sufficiency determination is attached.

-
- 1 If the resource is present but no use is anticipated, describe in Remarks why there will be no use. If there will be no use because avoidance/mitigation measures will be included, describe those in the mitigation text box provided.**
 - 2 Unless required as an attachment, documentation for subject areas should be maintained in the project's Technical Support Data and does not need to be submitted with the CEE.**
-

Additional Information

Remarks, Footnotes, Supplemental Data

A historical narrative and an interpretive panel will be prepared for the Mars Home for Youth.

Attachments

1. [PA_Three Degree Road_Final4f_LegalSufficiencyMemo_8K18.pdf](#) (107KB / 0.1MB)
2. [Act_120-Section_2002-Approved.pdf](#) (858KB / 0.8MB)
3. [20180925_P1345A_Section4fReport_Final_signed_1.pdf](#) (4709KB / 4.6MB)
4. [20180925_P1345A_Section4fReport_Final_signed_2.pdf](#) (4506KB / 4.4MB)

CE Evaluation Part B, Section A-6
Environmental Evaluation Subject Areas (Air Quality and Noise)

6. AIR QUALITY AND NOISE

AIR QUALITY

Is the project exempt from regional ozone conformity analysis and a CO, PM10 & PM2.5 Hot-Spot analysis? Yes No

See exempt project list in Air Quality Handbook, Pub #321.

If Yes, the system skips the next few questions.

Mobile Source Air Toxics (MSATs)

Is the project exempt from an analysis for MSATs based on Pub #321? Yes No

See Air Quality Handbook, Pub #321, for exemptions.

If Yes, the system skips the remainder of this section.

Air Quality Remarks

Butler County, PA is in an attainment air quality status for all of the major pollutants: Carbon Monoxide (CO); 1-hour and 8-hour Ozone; and Particulate Matter (PM 10 and PM 2.5). The project does not include or directly affect any roadways for which the 20-year forecasted build Average Daily Traffic (ADT) will exceed 125,000 vehicles per day. It can therefore be concluded that the project will have no significant adverse impact on air quality.

NOISE

1. Is the project a:

Reference PennDOT Pub #24 for additional information on Type I, II and III Projects.

A. Type I Project? Yes No

Indicate the applicable construction type:

- | | |
|--|-------------------------------------|
| Highway on new alignment | <input type="checkbox"/> |
| Through lanes that increase capacity | <input type="checkbox"/> |
| Significant change in the horizontal or vertical alignment | <input checked="" type="checkbox"/> |
| Other | <input type="checkbox"/> |

Other Description:

B. Type II Project? Yes No

C. Type III Project? **If Yes, the system skips questions 2 and 3.** Yes No

2. A. Are sensitive receptors present? Yes No

If No, the system skips questions 2B and 3. Provide any additional comments in the Remarks section.

If Yes, how many noise sensitive receptors are within the project area? 30 +

If Yes, what type(s) of sensitive receptors are present?

Residential receptors; Section 4(f)resources (National Register of Historic Places-eligible George Ebert House and Galletta's Winter Haven property; Mars Bethel Miniature Golf and Par 3 Course; Mars Area High School, Middle School, and Primary Schools; and the Mars Home for Youth complex.

B. What Land Use Activity Category is present in the project area as defined by PennDOT Pub #24? (Due to potential mixed land uses, there could be several categories.)

A B C D E F G

3. A. Do the predicted noise levels approach or exceed FHWA/PennDOT Noise Abatement Criteria for the Land Use Activity Category(s) identified in 2B? Yes No

B. Will there be a substantial increase of 10 dB(A) over existing level? Yes No

If both 3A and 3B are No, provide a qualitative (narrative) analysis in Noise Remarks below. Qualitative Analysis Quantitative Analysis

If 3A or 3B is Yes, provide the conclusion of the quantitative analysis in Noise Remarks below. The full quantitative analysis should be maintained in the project technical file. Attach the FHWA Approval Letter for the Noise Report.

Noise Remarks

As part of the environmental document being prepared for this transportation improvement project, a Preliminary Noise Impact Analysis was completed to evaluate the warrants, feasibility, and reasonableness of providing noise abatement for impacted receptors.

Noise monitoring was performed at 30 representative sites along the affected section of the proposed S.R. 0228 (Mars Road) and Three Degree Road intersection improvement project in Adams Township, Butler County, Pennsylvania. Following model validation, worst-case existing traffic noise levels were calculated. One of the existing year (2016) NSAs (NSA 1) within the project study area was determined to be currently impacted by traffic noise. An increase in traffic noise levels was predicted under design year (2036) conditions. With the constructed roadway improvements, future noise levels in the design year (2036) are predicted to generally increase by 1 dB(A) throughout the project study area, with impacts predicted at one site in NSA 1. Since noise impacts were identified, noise abatement was evaluated for the Build Alternative at the location that was predicted to approach or exceed the NAC.

Based on the noise analysis, although abatement consideration is warranted for NSA 1, no abatement can be recommended for this noise impacted area because it does not meet the feasibility criteria. Mitigation in the form of a sound barrier placed between the sites in NSA 1 and S.R. 0228 would impede access to the residential site adjacent to the impacted site. In addition, if the driveway access were relocated, the necessary abatement measures would exceed the S.F./B.R. criteria, and be considered not reasonable. Therefore, no abatement is recommended for this project.

The Preliminary Noise Impact Analysis dated January 2017 is located in the technical file.

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments

1. [S.R. 0228 and Three Degree Road \(Prelim Noise FHWA Concurrence.pdf\)](#) (50KB / 0MB)

CE Evaluation Part B, Section A-7
Environmental Evaluation Subject Areas (Socioeconomic Areas)

Where mitigation is incorporated for socioeconomic impacts, add the mitigation commitments to form B: E.

REGIONAL & COMMUNITY GROWTH

Will the project induce impacts (positive and negative) on planned growth, land use, or development patterns for the area? Yes No

Is the project consistent with planned growth? Yes No

Basis of this determination:

The Three Degree Road Intersection project (Project ID 91286) is listed on the FY 2019 SPC TIP.

Will the project induce secondary growth? Yes No

PUBLIC FACILITIES & SERVICES

Will the project induce negative impacts on health and educational facilities; public utilities; fire, police and emergency services; civil defense; religious institutions; or public transportation? Yes No

Does the project incorporate bicycle or pedestrian facilities into the overall design or operations (including construction)? Yes No

Explain. (Complete a bicycle/pedestrian checklist if applicable for this project.)

Sidewalks are proposed along S.R. 0228 and Three Degree Road.

Will the project have a positive impact to the public facilities and services listed above? Yes No

If Yes, explain.

The proposed project will provide a safe and efficient travel along S.R. 0228, having a positive impact to public facilities and services.

COMMUNITY COHESION

Will the project induce impacts to community cohesion? Yes No

Will the project induce impacts to the local tax base or property values? Yes No

ENVIRONMENTAL JUSTICE

Is the project exempt from Detailed Project Level Environmental Justice Analysis per Section 2.1 of Publication 746, Project Level Environmental Justice Guidance? Yes No

Is an Environmental Justice population, as identified in Executive Order 12898, present? ¹ Yes No

No known minority or low-income populations have been identified that would be disproportionately highly and adversely affected by this project as determined above. Therefore, this project has met the provisions of Executive Order 12898.

RIGHT-OF-WAY ACQUISITIONS OR DISPLACEMENTS OF PEOPLE, BUSINESSES OR FARMS

How many parcels require right-of-way acquisition, either partial or total?

68

Describe the extent and locations of acquisitions. Indicate for each acquisition whether it is temporary or permanent.

Mostly sliver takes. Impacts to school properties is anticipated. 4 residential and 2 commercial businesses are anticipated to be displaced.

Will the project require the relocation of people, businesses or farms? Yes No

If Yes, indicate number: 4 Residential 2 Commercial 0 Farms

If there are displacements, a conceptual stage survey report is required that analyzes the availability of replacement facilities.

Conceptual Stage Survey Report

Will the project induce impacts to economic activity, including employment gains and losses? Yes No

MAINTENANCE AND OPERATING COSTS OF THE PROJECT AND RELATED FACILITIES

Will the project induce increases of operating or maintenance costs? Yes No

PUBLIC CONTROVERSY ON ENVIRONMENTAL GROUNDS

Will the project involve substantial controversy concerning social, cultural, or natural resource impacts? Yes No

AESTHETIC AND OTHER VALUES

Will the project be visually intrusive to the surrounding environment? Yes No

Will the project include "multiple use" opportunities? ² Yes No

Will the project involve "joint development" activities? ³ Yes No

1 Copies of pertinent EJ information, data, analyses, and outreach activities should be placed in the

project's Technical Support Data files.

- 2 Examples of "multiple use" may include historical monuments, parking areas, bikeways, pedestrian paths, and other shared-use facilities on highway right-of-way.
 - 3 "Joint development" involves compatible development in conjunction with the highway. Examples could include construction of highway facilities such as highways, turning lanes, interchanges, or lane widening in conjunction with planned residential, shopping, commercial, or industrial facilities.
-

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments

1. [Conceptual Stage Survey Report-Three Degree Road.pdf](#) (901KB / 0.9MB)

CE Evaluation Part B, Section C

Public Involvement

Document all public involvement efforts, including but not limited to, meetings, intent to enter letters, and displays. Indicate number of events when applicable. Include in the project technical file: notification of public involvement activities, and the resolution to relevant issues or concerns raised during public involvement.

	#	Comments
<input checked="" type="checkbox"/> Plans Display	1	see Remarks
<input checked="" type="checkbox"/> Public Officials Meetings	1	see Remarks
<input checked="" type="checkbox"/> Public Meetings	1	see Remarks
<input type="checkbox"/> Public Hearing		
<input type="checkbox"/> Special Purpose Meetings (specify)		
<input checked="" type="checkbox"/> Section 106 Public Involvement / Consulting Parties (specify)		Section 106 Consulting Party outreach was conducted and is documented in Project Path: https://search.paprojectpath.org/ProjectSearch.aspx?txtMPMS=91286
<input checked="" type="checkbox"/> Section 106 Tribal Consultation (specify Tribe(s) contacted and Tribal response)		Section 106 Tribal Consultation was conducted and is documented in Project Path: https://search.paprojectpath.org/ProjectSearch.aspx?txtMPMS=91286
<input type="checkbox"/> Environmental Justice Community Involvement (if applicable)		
<input checked="" type="checkbox"/> Other information dissemination activities (specify)		The Pennsylvania Department of Transportation Engineering District 10-0 Community Relations Coordinator will ensure that project updates are reflected upon the District 10-0 website and via project related press releases.

Remarks

An Open House Plans Display for the Route 228 widening near Three Degree Road project was held at the Adams Township Building on Thursday, November 16, 2017 from 5:00 pm to 7:00 pm.
Public involvement documentation is located in the project's technical file.

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments

CE Evaluation Part B, Section D

Permits Checklist

Check all permits required for permanent and temporary actions.

No Permits Required

United States Army Corps of Engineers Section 404 and/or Section 10 Permit

Individual Nationwide PASPGP

DEP Waterway Encroachment (105) Permit

Standard Small Project General Other

DEP 401 Water Quality Certification

Coast Guard Permit

NPDES Permit

General Individual Exempt

Other Permits

Other Permits Information

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments

CE Evaluation Part B, Section E

Resources To Be Avoided and Mitigation Measures

The mitigation measures summarized in this section should be incorporated into the project's design documents. In order to track and transfer mitigation commitments through the project development process, **Environmental Commitments & Mitigation Tracking System (ECMTS)** documentation should be prepared and submitted to the appropriate channels, including the Contract Management Unit, as the project moves through Final Design and Construction. Mitigation is automatically completed for the resource specific areas in this document. Non-resourced specific mitigation should be added to this page for documentation purposes.

Mitigation measures are COMMITMENTS of both the Department and FHWA and are agreed to and approved by the District Executive for Level 1 CEEs and by the Division Administrator of FHWA for Level 2 CEEs.

Impacts and mitigation commitments are based on Preliminary Design and may change as the project moves through Final Design and Construction. Final design information and final mitigation commitments are included in the ECMTS documentation.

1. Specific Permanent Impacts

Streams (B:A-1): 1,537 *linear feet*

Wetlands (B:A-1): 0.407 *acres*

State Gamelands (B:A-2): *acres*

2. Specific Mitigation Commitments

STREAMS (B:A-1)

Project Specific Restoration/Enhancement: *linear feet*

Advanced Compensation/Banking: *linear feet*

Other:

Mitigation Remarks: Mitigation in the form of riparian plantings proposed.

WETLANDS (B:A-1)

Project Specific Replacement/Construction: 0.407 *acres*

Banking: *acres*

Bank to be Debited:

Restoration: *acres*

Preservation: *acres*

In-Lieu Fee: *whole dollars*

Other:

Mitigation Remarks: Permanent wetland impacts amount to 0.407 acres which is greater than the de minimis threshold of 0.05 acres. Therefore, compensated wetland replacement will be necessary.

Wetland replacement is anticipated to take place either onsite or at an offsite location.

A combination of contribution to the PennDOT Wetland Bank and wetland replacement may be necessary.

Options for replacement will occur during Final Design and coordinated during the permitting process for the project.

STATE GAMELANDS (B:A-2)

Project Specific Replacement: *acres*

Banking: *acres*

Bank to be Debited:

Other:

Mitigation Remarks:

3. Other Mitigation Commitments

RESOURCE SPECIFIC

Section 4(f) Resources (B:A-5)

A historical narrative and an interpretive panel will be prepared for the Mars Home for Youth.

NON-RESOURCE SPECIFIC

Additional Information

Remarks, Footnotes, Supplemental Data

An Environmental Commitments and Mitigation Tracking System (ECMTS) Matrix will be created and maintained to ensure that environmental commitments are carried through into Final Design and Construction.

Attachments

CE Evaluation Part B, Section F

Scoping Field View

Date of Scoping Field View: 06/12/12

Attendee List (Name, Organization)

Eric Buchan - 10-0 Environmental Jessica Rizzilli - 10-0 Environmental John McCombie- 10-0 Project Manager Cody Young - 10-0 Right-of-way Susanne Haney- CRP-Archaeology Jonathan Daily - CRP - Historic Structures Jeff Bucher - BOD Project Dev. Engr. Joe Verbka -CRP, Western Regional Supervisor Jeff Hartzell- Butler County Maintenance

Anticipated NEPA Documentation

As supported by the information available at the time of scoping, this project appears to qualify for a Level 2 Categorical Exclusion in accordance with 23 CFR Part 771.117(d), Item Number Other.

Remarks **Provide a brief description of NEPA documentation requirements agreed to at the field view.**

Description: This project is a roadway improvement project that consists of connecting into the 5-lane Mars RR Project (ECMS 78016) recently constructed on the western end of the study area, addressing numerous driveway access points from the Mars RR Project east through the schools area, improving the SR 3007 (Three Degree Road) intersection, and connecting to the SR 0228/Balls Bend Project on the eastern end of the study area. Route 228 and reconstruction of approximately 13,200 ft of road along SR 0228 and 3,600 ft along SR 3007. Numerous new township roads to improve access along the corridor will be included. Sidewalks or shared-use paths are proposed along Three Degree Road and in front of the Mars High School. Streams: Two perennial streams (UNT-1 and UNT-B) and two intermittent stream channels (UNT-A and UNT-C) were identified within the project area. UNT-1, UNT-B, and UNT-C are all unnamed tributaries within the Glade Run watershed. UNT-A is an unnamed tributary within the Breakneck Creek Watershed. Two perennial streams (STR-1 and UNT-1) and one intermittent stream (UNT-2) were identified within the project area. UNT-1 is an unnamed tributary to STR-1. None of the streams are listed as an Approved Trout Water or Wild Trout Water. None of the streams are listed as a federal or state Wild and Scenic River. UNT-2 is an unnamed intermittent tributary to UNT-1 and is not an Approved Trout Water or Wild Trout Water. Wetlands: During field research, five (5) wetland areas (W-A, W-B, W-C, W-D, and W-142) were identified and delineated within the project limits. They are classified as Palustrine Emergent (PEM), Palustrine Emergent / Palustrine Scrub Shrub (PEM/PSS), and Palustrine Open Water (POW) wetlands. 4(f): There are six (6) Section 4(f) resources within the APE that are all covered in the Individual Section 4(f) documentation being prepared for the project. There are three (3) National Register Eligible resources: The United Presbyterian Orphan's Home/Mars Home for Youth; the George Ebert House; and Galletta's Winter Haven. In addition there are three (3) recreational Section 4f resources owned by the Mars Area School District but are open to the public for use during non-school hours: Senior High School tennis courts; Middle School athletic track; and Elementary School baseball field. Historic Structures: The United Presbyterian Orphan's Home/Mars Home for Youth (Key No. 127642, determined eligible for the National Register in 2004); the George Ebert House (Key No. 127643, determined eligible for the National Register in 2004); and Galletta's Winter Haven (Key No. 127649, determined eligible for the National Register in 2004). The demolition of the Mars Home for Youth care taker's home will create an "Adverse Effect" per 106 resources. Utilities: Electric, Sewer, Water, Gas, Data/Comm ROW: Displacements anticipated. CE Level: 2 Moderate Project: DFV to Central Office

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments

CE Evaluation Part C
CEE Approval Processing

Section B - Level 2 CEE Approval

As supported by the attached Categorical Exclusion Evaluation, this project qualifies for a Level 2 Categorical Exclusion in accordance with 23 CFR 771.117(d), Item Number Other . Furthermore, the project will not result in any of the four circumstances cited in 23 CFR 771.117(b).

County: Butler **SR/Sec:** 0228/29B **MPMS:** 91286 **Project:** Three Degree Rd Intersection

Prepared By: Scott Siegart - A.D. Marble

Title: Environmental Consultant **Date:** 10/26/18

Approved By: Jonathan Crum **Date:** 12/10/18

Title: Federal Highway Administration

The following individuals concurred with the statement above.

District Environmental Manager: Jessica L Rizzilli **Date:** 12/05/18

Assistant District Executive for Design: Jim R Andrews **Date:** 12/05/18

Additional Information

Remarks, Footnotes, Supplemental Data

Attachments