FILE

FirstEnergy

2020 OCT -5 PM 4:15

76 South Main Street
Akron, Ohio 44308

PUCO

October 2, 2020

Ms. Tanowa Troupe
Docketing Division
The Public Utilities Commission of Ohio
180 East Broad Street
Columbus, OH 43215-3793

Construction Notice
Dixie Substation Expansion Project
Case No. 20-1457-EL-BNR

Dear Ms. Troupe:

In accordance with Ohio Administrative Code ("OAC") Rule 4906-2-04(A)(3) and OAC Chapter 4906-6, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is electronically docketing and mailing five (5) paper copies and ten (10) copies on CD of the enclosed Construction Notice application. The Construction Notice application, which is attached, was completed in accordance with the requirements of OAC Chapter 4906-6.

In this Project, ATSI is proposing the expansion of the existing Dixie 138 kV Substation to facilitate the installation of new equipment. The proposed Project will convert the Dixie 138 kV Substation into a six (6) breaker ring bus. The Project will result in the expansion of the substation by approximately 12,500 square feet, which is an approximately 18.6%. At the completion of the Project, the new total area of the substation will be approximately 79,600 square feet. To accommodate the addition of this new expansion area, approximately 550 linear feet of additional fence will be installed.

The Project will be located in the City of Toledo, Lucas County, Ohio.

Pursuant to OAC Rule 4906-2-04(A)(3), please be advised of the following:

a) Name and address of the applicants:

American Transmission Systems, Incorporated
76 South Main Street
Akron, Ohio 44308

b) Name and location of proposed facilities:

Dixie Substation Expansion Project.

The Project area is located in the City of Toledo, Lucas County, Ohio.

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business
Technician MN Date Processed OCT 05 2020

FirstEnergy

76 South Main Street
Akron, Ohio 44308

c) Applicant's representative:

Nataliya Bryksenkova, Engineer
Transmission Siting
FirstEnergy Service Company
76 South Main Street
Akron, OH 44308-1890

d) No information that was provided in the pre-application letter required by OAC Rule 4906-6-03 has been amended or changed in the attached Construction Notice application.

e) A notarized statement that the information contained in the application is complete and accurate is attached as Attachment 1.

We have provided a copy of this Construction Notice application by email to officials of the political subdivisions immediately affected by the proposed Project as listed in the attached Exhibit 1 of this letter. Copies of the transmittal letters addressed to the local government representatives of the City of Toledo and Lucas County are enclosed for your file. In addition to the local officials, this Construction Notice application is being provided to the library listed in the Exhibit 1. These materials are being provided as proof of compliance with OAC Rule 4906-6-07. Should staff of the Ohio Power Siting Board desire further information or discussion of this submittal, please contact me at (330) 761-4473.

Sincerely,

Nataliya Bryksenkova
Engineer
Transmission Siting
FirstEnergy Service Company

Attachments

Dixie Substation Expansion Project
Case Number 20-1457-EL-BNR

Date: October 2, 2020

Attachment 1
Acknowledgement of Nataliya Bryksenkova

docVerify

SEALED 08EF7E2A DOCVERIFY

Dixie CN Acknowledgement-E-Notary.docx

DocVerify ID:	08EF7E2A-8B26-40EB-A0CF-D08EA8763DFC
Created:	October 02, 2020 06:46:33 -8:00
Pages:	1
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E-Signature Summary

E-Signature 1: Nataliya Bryksenkova (NB)
October 02, 2020 07:11:58 -8:00 [606F7E1DD779] [148.108.96.34]
nbryksenkova@firstenergycorp.com (Principal) (Personally Known)

E-Signature Notary: Matthew J. Albright (MJA)
October 02, 2020 07:11:58 -8:00 [D029AB8DA051] [173.88.208.101]
malbright@firstenergycorp.com
I, Matthew J. Albright, did witness the participants named above electronically sign this document.

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BEFORE THE
OHIO POWER SITING BOARD

In The Matter Of: The Application of American Transmission Systems, Incorporated for a Certificate of Environmental Compatibility and Public Need for the Construction for the Dixie Substation Expansion Project	)	Case No. 20-1457-EL-BNR

ACKNOWLEDGMENT OF NATALIYA BRYKSENKOVA

I, Nataliya Bryksenkova, state the following:

Pursuant to Ohio Administrative Code Rule 4906-2-04(A)(3)(e), I am the authorized representative of the Applicant in this case and I affirm that the Construction Notice application filed in this matter is true and accurate to the best of my information and belief.

N Bryksenkova
Signed on 2020/10/02 07:11:58 -8:00

Nataliya Bryksenkova, Engineer
Transmission Siting
FirstEnergy Service Company

State of Ohio)
) ss:
County of Summit)

The foregoing instrument was acknowledged before me this 2nd day of October, 2020.

M Albright
Signed on 2020/10/02 07:11:58 -8:00
Notary Public

NOTARY PUBLIC STATE OF OHIO
Matthew J Albright
Commission # 2017-RE-652674
Electronic Notary Public
State of Ohio
My Comm Exp. May 18, 2022
Notary Stamp 2020/10/02 07:11:58 PST
D029A88DA051

08EF7E2A-8B26-40EB-A0CF-D08EA8763DFC --- 2020/10/02 06:46:33 -8:00 --- Remote Notary

Exhibit 1
Officials Served Copy of Construction Notice
Dixie Substation Expansion Project
Case No. 20-1457-EL-BNR

Lucas County

Commissioner
Tina Skeldon-Wozniak, President
Lucas County Commissioners
1 Government Center, Suite 800
Toledo, OH 43604

Commissioner Pete Gerken,
Lucas County Commissioners
1 Government Center, Suite 800
Toledo, OH 43604

Commissioner Gary L. Byers
Lucas County Commissioners
1 Government Center, Suite 800
Toledo, OH 43604

Ms. Megan Vahey Casiere
Lucas County Administrator
1 Government Center, Suite 800
Toledo, OH 43604

Mr. Mike Pniewski - P.E., P.S.
Lucas County Engineer
1049 S. McCord Road
Holland, OH 43528

Mr. Thomas C. Gibbons, Director
Toledo-Lucas County
Planning Commission
1 Government Center, Suite 1620
Toledo, OH 43604

City of Toledo

Mayor Wade Kapszukiewicz
City of Toledo
1 Government Center
Toledo, OH 43604

Mr. Matt Cherry, President
City of Toledo Council
1 Government Center
Toledo, OH 43604

Ms. Melanie Campbell
Finance Director, City of Toledo
1 Government Center
Toledo, OH 43604

Mr. Steven Shrake,
City of Toledo
Chief Building Official
1 Government Center Suite 1600
Toledo, OH 43604

Library

Ms. Andrea Hudak, Branch Manager
West Toledo Branch Library
1320 Sylvania Avenue
Toledo, OH 43612

FirstEnergy

76 South Main Street
Akron, Ohio 44308

October 2, 2020

Via email: twozniak@co.lucas.oh.us
Tina Skeldon-Wozniak, President
Lucas County Commissioners
1 Government Center, Suite 800
Toledo, OH 43604

Construction Notice
Dixie Substation Expansion Project
Case No. 20-1457-EL-BNR

Dear Commissioner Skeldon-Wozniak,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing the expansion of the existing Dixie 138 kV Substation to facilitate the installation of new equipment. The Project will result in the expansion of the substation by approximately 12,500 square feet, which is an approximately 18.6%. At the completion of the Project, the new total area of the substation will be approximately 79,600 square feet. To accommodate the addition of this new expansion area, approximately 550 linear feet of additional fence will be installed. The Project is needed to improve the reliability of the electric transmission service provided by the substation in the Project area.

The Project will be located in the City of Toledo, Lucas County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's requirements for a Construction Notice application. Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached Construction Notice application with the OPSB for their review and approval. The application contains a description of the Project and is provided for your information.

I will be happy to answer any questions concerning this matter. You can contact me at (330) 761-4473.

Sincerely,

Nataliya Bryksenkova, Engineer
Transmission Siting
FirstEnergy Service Company

Attachment

FirstEnergy

76 South Main Street
Akron, Ohio 44308

October 2, 2020

Via email: pgerken@co.lucas.oh.us
Commissioner Pete Gerken,
Lucas County Commissioners
1 Government Center, Suite 800
Toledo, OH 43604

Construction Notice
Dixie Substation Expansion Project
Case No. 20-1457-EL-BNR

Dear Commissioner Gerken,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing the expansion of the existing Dixie 138 kV Substation to facilitate the installation of new equipment. The Project will result in the expansion of the substation by approximately 12,500 square feet, which is an approximately 18.6%. At the completion of the Project, the new total area of the substation will be approximately 79,600 square feet. To accommodate the addition of this new expansion area, approximately 550 linear feet of additional fence will be installed. The Project is needed to improve the reliability of the electric transmission service provided by the substation in the Project area.

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I will be happy to answer any questions concerning this matter. You can contact me at (330) 761-4473.

Sincerely,

Nataliya Bryksenkova, Engineer
Transmission Siting
FirstEnergy Service Company

Attachment

FirstEnergy

76 South Main Street
Akron, Ohio 44308

October 2, 2020

Via email: GByers@co.lucas.oh.us
Commissioner Gary L. Byers
Lucas County Commissioners
1 Government Center, Suite 800
Toledo, OH 43604

Construction Notice
Dixie Substation Expansion Project
Case No. 20-1457-EL-BNR

Dear Commissioner Byers,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing the expansion of the existing Dixie 138 kV Substation to facilitate the installation of new equipment. The Project will result in the expansion of the substation by approximately 12,500 square feet, which is an approximately 18.6%. At the completion of the Project, the new total area of the substation will be approximately 79,600 square feet. To accommodate the addition of this new expansion area, approximately 550 linear feet of additional fence will be installed. The Project is needed to improve the reliability of the electric transmission service provided by the substation in the Project area.

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Sincerely,

Nataliya Bryksenkova, Engineer
Transmission Siting
FirstEnergy Service Company

Attachment

FirstEnergy

76 South Main Street
Akron, Ohio 44308

October 2, 2020

Via email: mvcasiere@co.lucas.oh.us
Ms. Megan Vahey Casiere
Lucas County Administrator
1 Government Center, Suite 800
Toledo, OH 43604

Construction Notice
Dixie Substation Expansion Project
Case No. 20-1457-EL-BNR

Dear Ms. Vashey Casiere,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing the expansion of the existing Dixie 138 kV Substation to facilitate the installation of new equipment. The Project will result in the expansion of the substation by approximately 12,500 square feet, which is an approximately 18.6%. At the completion of the Project, the new total area of the substation will be approximately 79,600 square feet. To accommodate the addition of this new expansion area, approximately 550 linear feet of additional fence will be installed. The Project is needed to improve the reliability of the electric transmission service provided by the substation in the Project area.

The Project will be located in the City of Toledo, Lucas County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's requirements for a Construction Notice application. Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached Construction Notice application with the OPSB for their review and approval. The application contains a description of the Project and is provided for your information.

I will be happy to answer any questions concerning this matter. You can contact me at (330) 761-4473.

Sincerely,

Nataliya Bryksenkova, Engineer
Transmission Siting
FirstEnergy Service Company

Attachment

FirstEnergy

76 South Main Street
Akron, Ohio 44308

October 2, 2020

Via email: mpniewski@co.lucas.oh.us
Mr. Mike Pniewski - P.E., P.S.
Lucas County Engineer
1049 S. McCord Road
Holland, OH 43528

Construction Notice
Dixie Substation Expansion Project
Case No. 20-1457-EL-BNR

Dear Mr. Mike Pniewski,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing the expansion of the existing Dixie 138 kV Substation to facilitate the installation of new equipment. The Project will result in the expansion of the substation by approximately 12,500 square feet, which is an approximately 18.6%. At the completion of the Project, the new total area of the substation will be approximately 79,600 square feet. To accommodate the addition of this new expansion area, approximately 550 linear feet of additional fence will be installed. The Project is needed to improve the reliability of the electric transmission service provided by the substation in the Project area.

The Project will be located in the City of Toledo, Lucas County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's requirements for a Construction Notice application. Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached Construction Notice application with the OPSB for their review and approval. The application contains a description of the Project and is provided for your information.

I will be happy to answer any questions concerning this matter. You can contact me at (330) 761-4473.

Sincerely,

Nataliya Bryksenkova, Engineer
Transmission Siting
FirstEnergy Service Company

Attachment

FirstEnergy

76 South Main Street
Akron, Ohio 44308

October 2, 2020

Via email: Thomas.gibbons@toledo.oh.gov
Mr. Thomas C. Gibbons, Director
Toledo-Lucas County
Planning Commission
1 Government Center, Suite 1620
Toledo, OH 43604

Construction Notice
Dixie Substation Expansion Project
Case No. 20-1457-EL-BNR

Dear Mr. Gibbons,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing the expansion of the existing Dixie 138 kV Substation to facilitate the installation of new equipment. The Project will result in the expansion of the substation by approximately 12,500 square feet, which is an approximately 18.6%. At the completion of the Project, the new total area of the substation will be approximately 79,600 square feet. To accommodate the addition of this new expansion area, approximately 550 linear feet of additional fence will be installed. The Project is needed to improve the reliability of the electric transmission service provided by the substation in the Project area.

The Project will be located in the City of Toledo, Lucas County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's requirements for a Construction Notice application. Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached Construction Notice application with the OPSB for their review and approval. The application contains a description of the Project and is provided for your information.

I will be happy to answer any questions concerning this matter. You can contact me at (330) 761-4473.

Sincerely,

Nataliya Bryksenkova, Engineer
Transmission Siting
FirstEnergy Service Company

Attachment

FirstEnergy

76 South Main Street
Akron, Ohio 44308

October 2, 2020

Via email: mayor@toledo.oh.gov
Mayor Wade Kapszukiewicz
City of Toledo
1 Government Center
Toledo, OH 43604

Construction Notice
Dixie Substation Expansion Project
Case No. 20-1457-EL-BNR

Honorable Mayor Kapszukiewicz,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing the expansion of the existing Dixie 138 kV Substation to facilitate the installation of new equipment. The Project will result in the expansion of the substation by approximately 12,500 square feet, which is an approximately 18.6%. At the completion of the Project, the new total area of the substation will be approximately 79,600 square feet. To accommodate the addition of this new expansion area, approximately 550 linear feet of additional fence will be installed. The Project is needed to improve the reliability of the electric transmission service provided by the substation in the Project area.

The Project will be located in the City of Toledo, Lucas County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's requirements for a Construction Notice application. Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached Construction Notice application with the OPSB for their review and approval. The application contains a description of the Project and is provided for your information.

I will be happy to answer any questions concerning this matter. You can contact me at (330) 761-4473.

Sincerely,

Nataliya Bryksenkova, Engineer
Transmission Siting
FirstEnergy Service Company

Attachment

FirstEnergy

76 South Main Street
Akron, Ohio 44308

October 2, 2020

Via email: Matt.Cherry@toledo.oh.gov
Mr. Matt Cherry, President
City of Toledo Council
1 Government Center
Toledo, OH 43604

Construction Notice
Dixie Substation Expansion Project
Case No. 20-1457-EL-BNR

Dear Mr. Cherry,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing the expansion of the existing Dixie 138 kV Substation to facilitate the installation of new equipment. The Project will result in the expansion of the substation by approximately 12,500 square feet, which is an approximately 18.6%. At the completion of the Project, the new total area of the substation will be approximately 79,600 square feet. To accommodate the addition of this new expansion area, approximately 550 linear feet of additional fence will be installed. The Project is needed to improve the reliability of the electric transmission service provided by the substation in the Project area.

The Project will be located in the City of Toledo, Lucas County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's requirements for a Construction Notice application. Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached Construction Notice application with the OPSB for their review and approval. The application contains a description of the Project and is provided for your information.

I will be happy to answer any questions concerning this matter. You can contact me at (330) 761-4473.

Sincerely,

Nataliya Bryksenkova, Engineer
Transmission Siting
FirstEnergy Service Company

Attachment

FirstEnergy

76 South Main Street
Akron, Ohio 44308

October 2, 2020

Via email: melanie.campbell@toledo.oh.gov
Ms. Melanie Campbell
Finance Director, City of Toledo
1 Government Center
Toledo, OH 43604

Construction Notice
Dixie Substation Expansion Project
Case No. 20-1457-EL-BNR

Dear Ms. Campbell,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing the expansion of the existing Dixie 138 kV Substation to facilitate the installation of new equipment. The Project will result in the expansion of the substation by approximately 12,500 square feet, which is an approximately 18.6%. At the completion of the Project, the new total area of the substation will be approximately 79,600 square feet. To accommodate the addition of this new expansion area, approximately 550 linear feet of additional fence will be installed. The Project is needed to improve the reliability of the electric transmission service provided by the substation in the Project area.

The Project will be located in the City of Toledo, Lucas County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's requirements for a Construction Notice application. Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached Construction Notice application with the OPSB for their review and approval. The application contains a description of the Project and is provided for your information.

I will be happy to answer any questions concerning this matter. You can contact me at (330) 761-4473.

Sincerely,

Nataliya Bryksenkova, Engineer
Transmission Siting
FirstEnergy Service Company

Attachment

FirstEnergy

76 South Main Street
Akron, Ohio 44308

October 2, 2020

Via email: steve.shrake@toledo.oh.gov
Mr. Steven Shrake,
City of Toledo Chief Building Official
1 Government Center Suite 1600
Toledo, OH 43604

Construction Notice
Dixie Substation Expansion Project
Case No. 20-1457-EL-BNR

Dear Mr. Shrake,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing the expansion of the existing Dixie 138 kV Substation to facilitate the installation of new equipment. The Project will result in the expansion of the substation by approximately 12,500 square feet, which is an approximately 18.6%. At the completion of the Project, the new total area of the substation will be approximately 79,600 square feet. To accommodate the addition of this new expansion area, approximately 550 linear feet of additional fence will be installed. The Project is needed to improve the reliability of the electric transmission service provided by the substation in the Project area.

The Project will be located in the City of Toledo, Lucas County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's requirements for a Construction Notice application. Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached Construction Notice application with the OPSB for their review and approval. The application contains a description of the Project and is provided for your information.

I will be happy to answer any questions concerning this matter. You can contact me at (330) 761-4473.

Sincerely,

Nataliya Bryksenkova, Engineer
Transmission Siting
FirstEnergy Service Company

Attachment

FirstEnergy

76 South Main Street
Akron, Ohio 44308

October 2, 2020

Ms. Andrea Hudak, Branch Manager
West Toledo Branch Library
1320 Sylvania Avenue
Toledo, OH 43612

Construction Notice
Dixie Substation Expansion Project
Case No. 20-1457-EL-BNR

Dear Ms. Hudak,

Enclosed please find one copy of the Construction Notice application of American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, for the Dixie Substation Expansion Project ("Project") that has been filed with the Ohio Power Siting Board ("OPSB"). Please make the Construction Notice application available for public reference in the West Toledo Branch Library. We are providing a copy of the Construction Notice application for placement in your library in response to the requirements of the Ohio Administrative Code ("OAC") Rule 4906-6-07(A)(2), which requires us to place a copy of the application in the main public libraries of the political subdivisions in which any portion of the Project is to be located.

As described in the Construction Notice application, the Project proposes to the expansion of the existing Dixie 138 kV Substation to facilitate the installation of new equipment. The Project will result in the expansion of the substation by approximately 12,500 square feet, which is an approximately 18.6%. At the completion of the Project, the new total area of the substation will be approximately 79,600 square feet. To accommodate the addition of this new expansion area, approximately 550 linear feet of additional fence will be installed. The Project is needed to improve the electric transmission service provided by the substation in the Project area.

The Project will be located in the City of Toledo, Lucas County, Ohio.

Please feel free to call me with any question you have on making the Construction Notice application available to your patrons. My phone number is (330) 761-4473.

Sincerely,

Nataliya Bryksenkova, Engineer
Transmission Siting
FirstEnergy Service Company

Enclosure

AMERICAN TRANSMISSION SYSTEMS, INCORPORATED
A FIRSTENERGY COMPANY

CONSTRUCTION NOTICE

DIXIE SUBSTAION EXPANSION PROJECT

OPSB CASE NO.: 20-1457-EL-BNR

October 2, 2020

American Transmission Systems, Incorporated
76 South Main Street
Akron, Ohio 44308

CONSTRUCTION NOTICE
DIXIE SUBSTATION EXPANSION PROJECT

The following information is being provided in accordance with the procedures in the Ohio Administrative Code (OAC) Chapter 4906-6 for the application and review of Accelerated Certificate Applications. Based upon the requirements found in Appendix A to OAC Rule 4906-1-01, this Project qualifies for submittal to the Ohio Power Siting Board ("OPSB") as a Construction Notice application.

4906-6-05: ACCELERATED APPLICATION REQUIREMENTS

4906-6-05: Name and Reference Number

Name of Project: Dixie Substation Expansion Project ("Project").

4906-6-05 (B)(1): Brief Description of the Project

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, proposes the expansion of the existing Dixie 138 kV Substation to facilitate the installation of new equipment. The proposed Project will convert the Dixie 138 kV Substation into a six (6) breaker ring bus. The Project will result in the expansion of the substation by approximately 12,500 square feet, which is an approximately 18.6%. At the completion of the Project, the new total area of the substation will be approximately 79,600 square feet. To accommodate the addition of this new expansion area, approximately 550 linear feet of additional fence will be installed. The Project is located the City of Toledo, Lucas County, Ohio.

The general location of the proposed Project is shown in Exhibits 1 and 2. Exhibit 1 is a partial copy of the United States Geologic Survey, Lucas County, Ohio Quad Map. Exhibit 2 provides a partial copy of ESRI aerial imagery. The Project is located near the intersection of Detroit Avenue and East Crawford Avenue in the City of Toledo, Lucas County, Ohio. The general layout is shown in Exhibit 3.

4906-6-05 (B)(1): Construction Notice Requirement

The Project falls within Item (4) (a) of the Application Requirement Matrix for Electric Power Transmission Lines, in Appendix A of 4906-1-01. This section states that an applicant may use the Construction Notice application process if the Project is for:

(4) Constructing additions to existing electric power transmission stations or converting distribution stations to transmission stations where:

(b) There is a twenty percent or less expansion of the fenced area.

This Project meets this requirement because the expansion of the existing Dixie 138 kV Substation will not exceed twenty percent.

4906-6-05 (B)(2): Need For the Project

The proposed Project is necessary to address reliability, resiliency, efficiency, and operational flexibility issues on the transmission system in the Project area. Construction of the Project will directly improve electric service for approximately 7,700 customers representing approximately 70 MW of load served by the transmission system in the Project area and provide additional capacity for economic development and load growth in the area.

The Project consists of two components of planned upgrades. The two components are:

1. Convert the existing Dixie 138 kV Substation into a six-breaker ring bus configuration by performing the following work:
    a. Installing three (3) new 138 kV breakers, associated disconnect switches, CVTs, arresters, and line relaying at Dixie substation.
    b. Replacing two (2) existing 138 kV breakers and associated disconnect switches at Dixie substation.
2. Install a 28 MVAR capacitor bank, and associated cap switcher, arresters, reactors, and standard relaying.

Implementation of these two upgrades is required to fully address the system reinforcements needed to achieve the necessary system improvements. More specifically, the Project is needed to reinforce ATSI's 69 kV and 138 kV transmission system in the Project area to continue to provide safe and reliable electric service and to provide capacity for economic development and load growth in the area. Additionally, the Project will upgrade one existing 138 kV breaker and associated disconnect switches and line relaying at the Jackman 138 kV Substation for the Dixie line exit, as well as one 69 kV breaker and associated arresters and disconnect switches at the Dixie Substation to increase overall reliability in the area.

The Project Need was submitted as a Supplemental Project to the PJM Regional Transmission Expansion Plan (RTEP) at the Subregional RTEP-Western Committee on August 31, 2018. The Solution was presented at the Subregional RTEP-Western Committee on September 28, 2018.

Background on Attachment M-3 of the PJM Open Access Transmission Tariff (OATT) Supplemental Project Planning Process

Supplemental Projects are transmission owner ("TO") initiated projects and are part of the local planning process. The local planning process is conducted in accordance with Attachment M-3 of the PJM Open Access Transmission Tariff ("OATT"). Under the Attachment M-3 process, ATSI, as a TO, provides information regarding the criteria used to plan and identify supplemental projects at an assumptions meeting. The assumptions meeting is held on an annual basis, most recently on December 18, 2019. Following the assumptions meeting, the TO then develops and presents specific individual supplemental projects to PJM at monthly meetings as the specific projects are identified.

The process for developing specific supplemental projects builds on the assumptions identified generally and includes identification and review of system needs to be addressed by a specific project at separate needs meetings. At the separate needs meetings, stakeholders are provided an opportunity to comment on the specific supplemental project.

Next, there is a solutions meeting where potential solutions are discussed for a specific supplemental project, as well as any alternatives identified. Stakeholders may then provide comments on the potential solutions. Following the solutions meeting for a specific supplemental project, the TO is permitting to proceed with the supplemental project if PJM determines that there will be no harm to the transmission system from the project.

ATSI supplemental upgrades are typically either a request for electric service from new or existing customers and/or a project identified pursuant to FirstEnergy's reliability enhancement methodology, which is discussed with PJM during the assumptions meetings. This methodology and any identified projects are presented to PJM and the PJM stakeholders in accordance with the PJM OATT, Attachment M-3, as described above. ATSI projects, like the proposed Project, are presented at the PJM Subregional RTEP-Western Committee meetings, which occur monthly, Supplemental upgrades that have been reviewed through the Attachment M-3 process are identified with an "s" followed by a four-digit number. Supplemental upgrades are not mandated or directed by PJM but are necessary in order to address planning functions not transferred to PJM (e.g,, asset management and customer interconnections). These supplemental projects reflect the TOs' obligation to reliably serve its local service territory and are grounded in good utility practice.

In general, FirstEnergy's reliability enhancement methodology is intended to: (i) proactively upgrade or replace transmission lines and substation components that present an increasing risk to reliability; (ii) modernize the companies' transmission infrastructure by implementing technological advances to enhance reliability and promote increased efficiencies; (iii) increase or restore load serving capability; (iv) improve the resiliency of the existing transmission system to better withstand and recover from storms and unusual weather events such as extreme heat and cold; (v) address heightened concerns with cyber and physical security; (vi) improve customer reliability by installing new equipment with real-time monitoring capabilities to optimize maintenance intervals and reduce the likelihood of equipment failure; and (vii) better address customers' needs by reducing the

duration and frequency of unscheduled outages. Reliability enhancement projects, like the proposed Project, are largely driven to meet increased reliability demands of customers.

Discussion of Need for Project under Attachment M-3 process as well as other need considerations.

The Dixie 138 kV Substation serves a significant number of customers and has two 138 kV sources, the Dixie-Jeep 138 kV Transmission Line and the Dixie-Jackman 138 kV Transmission Line. The Dixie 138 kV Substation has one 138/69 kV transformer and two 138-12.47 kV distribution transformers. The existing Dixie 138 kV Substation was designed and built as a straight bus. The straight bus configuration is a less reliable design when compared to ATSI's current substation design standard of a ring bus design or breaker-and-a-half design. A straight bus design has several points of failure, including when a breaker fails to trip. As designed, if the breaker fails to trip at the Dixie Substation, there is a loss of power to all transformers and lines connected to the bus resulting in a complete outage of the station. Straight bus configurations are generally more susceptible to these failures and are significantly less reliable than the current design standards

As designed, a fault on the Dixie 138 kV bus or a line fault with a breaker failure to trip will result in a complete station outage and the loss of service to approximately 7,700 customers and 30 MW of load. Similarly, the loss of the Dixie-Jeep 138 kV Transmission Line followed by the loss of the Dixie-Jackman 138 kV Transmission Line results in low voltage conditions under backfeed conditions from the 69 kV system on the Dixie 138 kV bus and the Jeep No. 2 138 kV bus resulting in approximately 7,700 customers plus the service to Jeep No. 2 Substation and 70 MW of load being at risk. The Jeep No. 2 138 kV Substation serves a large industrial customer (approximately 40 MW), the Daimler Chrysler Toledo North Assembly Plant, which remains at risk from the loss of the substation under the planning contingency.

In addition, the proposed Project will install a 28 MVAR capacitor bank at the substation which will improve the system voltage profile and mitigate the voltage concerns identified

in the contingency analysis under backfeed conditions described above, provide for significant overall performance and reliability improvements for the transmission system, and support future load growth in the Project area.

The current design of the Dixie Substation is not consistent with current ATSI standards, nor is it consistent with current operating guidelines for PJM TOs.

PJM's General Transmission Owner Guidelines are intended to:

- Minimize the magnitude and duration of system outages in the event of a component failure;
- Minimize widespread system effects on voltage, dynamic stability, etc., that occur because of an unplanned event;
- Facilitate the isolation of failed component(s) while maximizing the amount of transmission system equipment that can remain in service; and
- Include plans for expeditious restoration of failed facilities/components (such as dedicated spare equipment, etc.)

To meet these minimum standards, ATSI has established that all new substations must, at a minimum, include a breaker-and-a-half or a ring bus configuration as documented in FirstEnergy's Requirements for Transmission Connected Facilities documents.

Since the current Dixie Substation does not meet current standards for transmission substations, it was reviewed for possible supplemental projects that eliminate the straight bus configuration – a design no longer used for new transmission substations on the ATSI transmission system – to bring the substation into compliance with current standards. When reviewing existing substations for potential modifications to meet current standards, ATSI typically focuses on substations where current configurations put more than 5,000 customers or at least 25 MW at risk. If these criteria are met, ATSI evaluates the substation to determine whether it can be modified to meet the current minimum design standards for new substations as part of its reliability enhancement methodology.

The proposed Project meets these requirements and is therefore needed.

It is important to note that ATSI's transmission planning is based on deterministic criteria, not probabilistic criteria. In other words, ATSI's transmission planning reinforces the transmission system based on an adverse planning event occurring, not based on the probability of the event occurring. ATSI cannot know or predict when a failure or fault will occur. Outages to the Dixie 138 kV bus have occurred since 2011. The Project will convert the Dixie 138 kV bus from a straight bus configuration to a ring bus configuration, eliminating the potential for a bus outage.

In addition, from 2011 to present, there were three momentary outages and one sustained outage on the Dixie-Jackman 138 kV line and four sustained outages on the Dixie-Jeep No2 138 kV line. The three momentary outages on the Dixie-Jackman 138 kV line and three of the sustained outages on the Dixie-Jeep No2 138 kV line were the direct result of the configuration of the existing Dixie Substation. The Project will mitigate the potential for outages of this nature and improve overall reliability and operational flexibility in the Project Area.

The Solution will improve operational flexibility and efficiency; reduce the amount of local load loss under Planning Event P2 (i.e. single contingency – bus fault or line fault with a breaker failure) contingency conditions and strengthen the 138 kV system voltage under Planning Event P6 (i.e. multiple contingency – loss of two transmission circuits) contingency conditions. PJM evaluated the proposed Project and did not identify any FirstEnergy or PJM Planning Criteria violations caused by the Project. As such, there is no additional need for other network system upgrades because of the Project. PJM assigned the Project supplemental upgrade identification number s1707. The PJM SSRTEP-Western presentation slide is included as Exhibit 4 and includes additional details of the Project drivers.

Based on a review of the contingency scenarios described above, which are the most likely under the current configuration of the substation and transmission system, there are significant negative impacts to the reliability metrics System Average Interruption Duration Index (SAIDI), System Average Interruption Frequency Index (SAIFI), and

Customer Average Interruption Duration (CAIDI) for the Toledo Edison region of FirstEnergy if the Project is not completed. These negative impacts are summarized in Table 1 below and assumes 7,700 customers interrupted based on the contingency scenarios described above for a three-hour outage duration. This outage duration was determined based on historic off-hours outage restoration times necessary to assemble a crew, dispatch the crew to the scene, allow the crew time to determine the issue, and then for the crew to perform switching to restore customers.

$$\text{SAIDI} = \frac{\sum \text{Customer Minutes Interrupted}}{\sum \text{Customers Served}}$$

$$\text{SAIFI} = \frac{\sum \text{Customer Interrupted}}{\sum \text{Customers Served}}$$

$$\text{CAIDI} = \frac{\sum \text{Customer Minutes Interrupted}}{\sum \text{Customers Interrupted}}$$

Table 1: Impact to reliability metrics due to customers interrupted under contingency

SAIDI Impact	SAIFI Impact	CAIDI Impact	System CAIDI Increase
4.576	0.02542	180	1.7

The Project will mitigate the potential for outages under the contingency scenarios described above and improve overall reliability and operational flexibility in the Project area.

Concurrently with the construction of the proposed Project, ATSI will replace one of the 69 kV breaker and two 138 kV breakers at Dixie as well as one 138 kV breaker at Jackman. The 69 kV breaker at Dixie is a 40-year-old oil circuit breaker that uses obsolete parts and with an operating mechanism showing signs of deterioration (i.e. hydraulic leaks leading to multiple corrective maintenance). Both 138 kV breakers at Dixie are 47-year-old oil circuit breakers that use obsolete parts and have operating mechanisms showing signs of deterioration (i.e. hydraulic leaks leading to multiple corrective maintenance orders). The 138 kV breaker at Jackman is a 40-year-old oil circuit breaker that uses obsolete parts and has an operating mechanism showing significant signs of deterioration (i.e. hydraulic leaks

leading to a significant number of corrective maintenance orders). Multiple electromechanical relays, disconnect switches, CCVTs, line tuners, and wavetraps will also be replaced under the proposed Project all of which have a history of misoperation, use obsolete/deteriorated parts, and have a history of drifting and/or have failed in the past. Replacing and upgrading the above equipment will allow for these stations and transmission lines to remain in service more often, thereby increasing the reliability for Toledo Edison customers.

4906-6-05 (B)(3): Location of the Project Relative to Existing or Proposed Lines

The location of the Project relative to existing or proposed lines is shown in the ATSI Transmission Network Map, included as part of the confidential portion of the FirstEnergy Corp. 2020 Long-Term Forecast Report. This map was submitted to the PUCO in Case No. 20-0657-EL-FOR under Rule 4901:5-5:04 (C) of the Ohio Administrative Code. The map is incorporated by reference only. This map shows ATSI's 345 kV and 138 kV transmission lines and transmission substations including the Dixie Substation. The Project area is located approximately 5 inches (11" x 17" printed version) from the left edge of the map and approximately 1 $^{1}/_{4}$ inch (11" x 17" printed version) from the top of the map. The general location and layout of the Project area is shown in Exhibit 1, 2 and 3. The Project is included in ATSI's LTFR filed in 2020.

4906-6-05 (B)(4): Alternatives Considered

- No action – Continued operation of the system as currently configured places approximately 7,700 customers (approximately 70 MW of load) at continued risk of the loss or disruption of service.

- Alternate placement of the ring bus substation - The proposed Project location is best suited for the proposed reinforcement because the Project will occur entirely on ATSI-owned property and involves reconfiguration of an existing substation. All other alternatives that could meet Project objectives include the construction of a new 138 kV substation at a different location in the Dixie Substation area, which

would require additional land acquisition and increased land-use impacts. Construction of a new 138 kV substation would also require construction of additional transmission line extensions, which will further increase impacts and costs. In addition, the proposed expansion area is within the existing maintained 138 kV and 69 kV rights of way. Therefore, it is anticipated no tree clearing is necessary to complete the Project.

- Alternate to the proposed six-breaker ring bus – A breaker and a half substation design would also provide the proposed reliability improvements. However, this design would require a larger expansion area, and additional equipment costs. As such, the proposed ring bus installation was selected since it meets the Project objectives and has the lowest impacts and costs.

4906-6-05 (B)(5): Public Information Program

ATSI's manager of External Affairs will advise local officials of features and the status of the proposed Project as necessary. ATSI will maintain a Project website and will continue to work with property owners concerning the proposed Project.

The website address is below:
https://www.firstenergycorp.com/about/transmission_projects/ohio.html .

Finally, during all phases of this Project, ATSI will maintain the transmission projects hotline at 1-800-589-2873 or via email at: transmissionprojects@firstenergycorp.com where the public may ask questions or leave comments on the Project for ATSI.

4906-6-05 (B)(6): Construction Schedule

The construction schedule for this Project is expected to begin as early as January 4, 2021 and completed by June 1, 2021.

4906-6-05 (B)(7): Area Map

The general location of the Project is shown in Exhibits 1 and 2. Exhibit 1 is a partial copy of the United States Geologic Survey, Lucas County, OH, Quad Map Lucas. Exhibit 2 provides a partial copy of ESRI aerial imagery. The general layout of the proposed Project is shown in Exhibit 3. The Project is located in the City of Toledo, Lucas County Ohio.

4906-6-05 (B)(8): Property Owner List

The Project is located entirely within property (Parcel No. 2285201) owned by Toledo Edison Company, a FirstEnergy company. No additional property easements, options, or land use agreements will be necessary to construct or operate the Project.

4906-6-05 (B)(9): TECHNICAL FEATURES OF THE PROJECT

4906-6-05 (B)(9)(a): Operating Characteristics

The equipment and facilities described below will be located within the expanded fenced area of the Dixie Substation once construction is complete.

Materials:

138kV Capacitor Bank – (1 new)

138kV Circuit Breakers – (2 replaced, 3 new, - 5 total)

69kV Circuit Breakers – (1 replaced)

Relay Panels – (4 replaced, 2 new – 6 total)

138kV Switches – (6 replaced, 6 new – 10 total)

138kV Capacitive Voltage Transformer ("CCVT") – (12 new)

69kV Switches – (2 replaced)

4906-6-05 (B)(9)(b): Electric and Magnetic Fields

Not applicable.

4906-6-05 (B)(9)(c): Estimated Cost

The estimated capital cost for the proposed Project is approximately $8,058,300, fully paid by ATSI.

4906-6-05 (B)(10): SOCIAL AND ECOLOGICAL IMPACTS

4906-6-05 (B)(10)(a): Land Uses

The Project is located in the City of Toledo, Lucas County Ohio. The main land use around the Project is a mixture of residential and industrial land. No significant changes or impacts to the current land use are anticipated.

4906-6-05 (B)(10)(b): Agricultural Land

Agricultural land does not exist within the Project area.

4906-6-05 (B)(10)(c): Archaeological or Cultural Resources

A search of Ohio Historic Preservation Office's ("OHPO") National Register of Historic Places ("NRHP") online database was conducted to identify the existence of any significant archaeological or cultural resource sites within 0.5 mile of the Project area. A map of the results of the search is shown in Exhibit 5.

The OHPO database includes all Ohio listings on the National Register of Historic Places ("NRHP"), including districts, sites, building, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture. The results of the search indicate that no listed NRHP or NRHP eligible sites were identified within 0.5 mile of the Project area.

The OHPO database also includes listing of the Ohio Archaeological Inventory ("OAI"), the Ohio Historic Inventory ("OHI"), previous cultural resource surveys, and the Ohio Genealogical Society ("OGS") cemetery inventory. There are no OAI listed archeological resources previously inventoried within 0.5 mile of the Project area. There are no listed

structural resources located within 0.5 mile of the Project area. No cultural resource surveys have been conducted within 0.5 mile of the Project area. No OSG cemeteries are located within 0.5 mile of the Project area.

4906-6-05 (B)(10)(d): Local, State, and Federal Requirements

At the time of filing, no additional government agency requirements are needed for this Project.

4906-6-05 (B)(10)(e): Endangered, Threatened, and Rare Species Investigation

ATSI contracted TRC to submit a request to the Ohio Department of Natural Resources ("ODNR") Office of Real Estate to conduct an Environmental Review. As part of the Environmental Review, the ODNR Office of Real Estate conducted a search of the ODNR Division of Wildlife's Natural Heritage Database to research the presence of any endangered, threatened, or rare species within one (1) mile of the Project area. The ODNR's Office of Real Estate's response on April 9, 2020 indicated that the Project area is within the range of five (5) federal and state endangered species, one (1) federal and state threatened species, eleven (11) state endangered species, and ten (10) state threatened species. A copy of ODNR's Office of Real Estate's response is included as Exhibit 6.

TRC also submitted a request to the US Fish and Wildlife Service ("USFWS") for an Ecological Review to research the presence of any endangered, threatened, or rare species within one (1) mile of the Project area. A copy of USFWS's Ecological Review response is included as Exhibit 7. The USFWS's response on March 17, 2020 indicated that they have records of one (1) federal and state endangered species, and one (1) federal and state threatened species. A list of all endangered, threatened, and rare species, as identified by ODNR and USFWS, is provided in Table 2.

Table 2: List of Endangered, Threatened, and Rare Species

Common Name	Scientific Name	Federal Listed Status	State Listed Status	Affected Habitat
Indiana Bat	*Myotis sodalis*	Endangered	Endangered	Trees & Forest
Northern Long-Eared Bat	*Myotis septentrionalis*	Threatened	Threatened	Trees & Forest

Rayed Bean	*Villosa fabalis*	Endangered	Endangered	Perennial Streams
Snuffbox	*Epioblasma triquetra*	Endangered	Endangered	Perennial Streams
Eastern Pondmussel	*Ligumia nasuta*	N/A	Endangered	Perennial Streams
Pondhorn	*Uniomerus tetralasmus*	N/A	Threatened	Perennial Streams
Black Sandshell	*Ligumia recta*	N/A	Threatened	Perennial Streams
Fawnsfoot	*Truncilla donaciformis*	N/A	Threatened	Perennial Streams
Threehorn Wartyback	*Obliquaria reflexa*	N/A	Threatened	Perennial Streams
Western Banded Killfish	*Fundulus diaphanus menona*	N/A	Endangered	Perennial Streams
Lake Sturgeon	*Acipenser fulvescens*	N/A	Endangered	Perennial Streams
Channel Darter	*Percina copelandi*	N/A	Threatened	Perennial Streams
American Eel	*Anguilla rostrata*	N/A	Threatened	Perennial Streams
Greater Redhorse	*Moxostoma valenciennesi*	N/A	Threatened	Perennial Streams
Blanding's Turtle	*Emydoidea blandingii*	N/A	Threatened	Wetlands, Pond Edges
Spotted Turtle	*Clemmys guttata*	N/A	Threatened	Wetlands, Pond Edges
Kirtland's Snake	*Clonophis kirtlandii*	N/A	Threatened	Wetlands
Blue-spotted Salamander	*Ambystoma laterale*	N/A	Endangered	Wetlands, Pond Edges
Piping Plover	*Charadrius melodus*	Endangered	Endangered	Dry grasslands, Pastures, Hayfields
Kirtland's Warbler	*Setophaga kirtlandii*	Endangered	Endangered	Dry grasslands, Pastures, Hayfields
American Bittern	*Botaurus lentiginosus*	N/A	Endangered	Dry grasslands, Pastures, Hayfields
Black Tern	*Chlidonias niger*	N/A	Endangered	Dry grasslands, Pastures, Hayfields
Common Tern	*Sterna hirundo*	N/A	Endangered	Dry grasslands, Pastures, Hayfields
King Rail	*Rallus elegans*	N/A	Endangered	Dry grasslands, Pastures, Hayfields
Cattle Egret	*Bubulcus ibis*	N/A	Endangered	Dry grasslands, Pastures, Hayfields
Lark Sparrow	*Chondestes grammacus*	N/A	Endangered	Dry grasslands, Pastures, Hayfields
Upland Sandpiper	*Bartramia longicauda*	N/A	Endangered	Dry grasslands, Pastures, Hayfields

The response from ODNR and USFWS indicated the Project is within the range of the federal and state endangered Indiana Bat (*Myotis sodalis*) and the federal threatened Northern Long-Eared Bat (*Myotis septentrionalis*). No tree clearing will be associated with the proposed Project. Therefore, no impacts to these species are anticipated.

The response from ODNR also indicated that due to the location, the type of habitat at the Project site, the type of work proposed, and that no in-water work is proposed, the Project is not likely to impact any of the species listed above.

4906-6-05 (B)(10)(f): Areas of Ecological Concern

As part of the Environmental Review, ODNR researched the presence of any unique ecological sites, geological features, animal assemblages, scenic rivers, state wildlife areas, nature preserves, parks or forest, national wildlife refuges, or other protected natural areas within one (1) mile of the Project area. Their on April 9, 2020 response indicated that they have no records of the aforementioned areas within one (1) mile of the identified Project area.

ATSI hired TRC to conduct a wetland and stream assessment of the Project area. TRC conducted the wetland and stream assessment of the Project area on March 3, 2020No wetlands or streams were identified within the Project area.

The Project work limits do not encroach on any regulated flood plains based on a review of online FEMA Flood Insurance Rate Mapping.

4906-6-05(B)(10)(g): Other Information

Construction and operation of the proposed Project will be in accordance with the requirements specified in the latest revision of the National Electrical Safety Code as adopted by the PUCO and will meet all applicable safety standards established by the Occupational Safety and Health Administration.

No other or unusual conditions are expected that will result in significant environmental, social, health or safety impacts.

4906-6-07: Documentation of Construction Notice Transmittal and Availability for Public Review

This Construction Notice application is being provided concurrently with its docketing with the OPSB to the following officials in the City of Toledo, Lucas County, Ohio.

Lucas County

Commissioner
Tina Skeldon-Wozniak, President
Lucas County Commissioners
1 Government Center, Suite 800
Toledo, OH 43604

Commissioner Pete Gerken,
Lucas County Commissioners
1 Government Center, Suite 800
Toledo, OH 43604

Commissioner Gary L. Byers
Lucas County Commissioners
1 Government Center, Suite 800
Toledo, OH 43604

Ms. Megan Vahey Casiere
Lucas County Administrator
1 Government Center, Suite 800
Toledo, OH 43604

Mr. Mike Pniewski - P.E., P.S.
Lucas County Engineer
1049 S. McCord Road
Holland, OH 43528

Mr. Thomas C. Gibbons, Director
Toledo-Lucas County
Planning Commission
1 Government Center, Suite 1620
Toledo, OH 43604

City of Toledo

Mayor Wade Kapszukiewicz
City of Toledo
1 Government Center
Toledo, OH 43604

Mr. Matt Cherry, President
City of Toledo Council
1 Government Center
Toledo, OH 43604

Ms. Melanie Campbell
Finance Director, City of Toledo
1 Government Center
Toledo, OH 43604

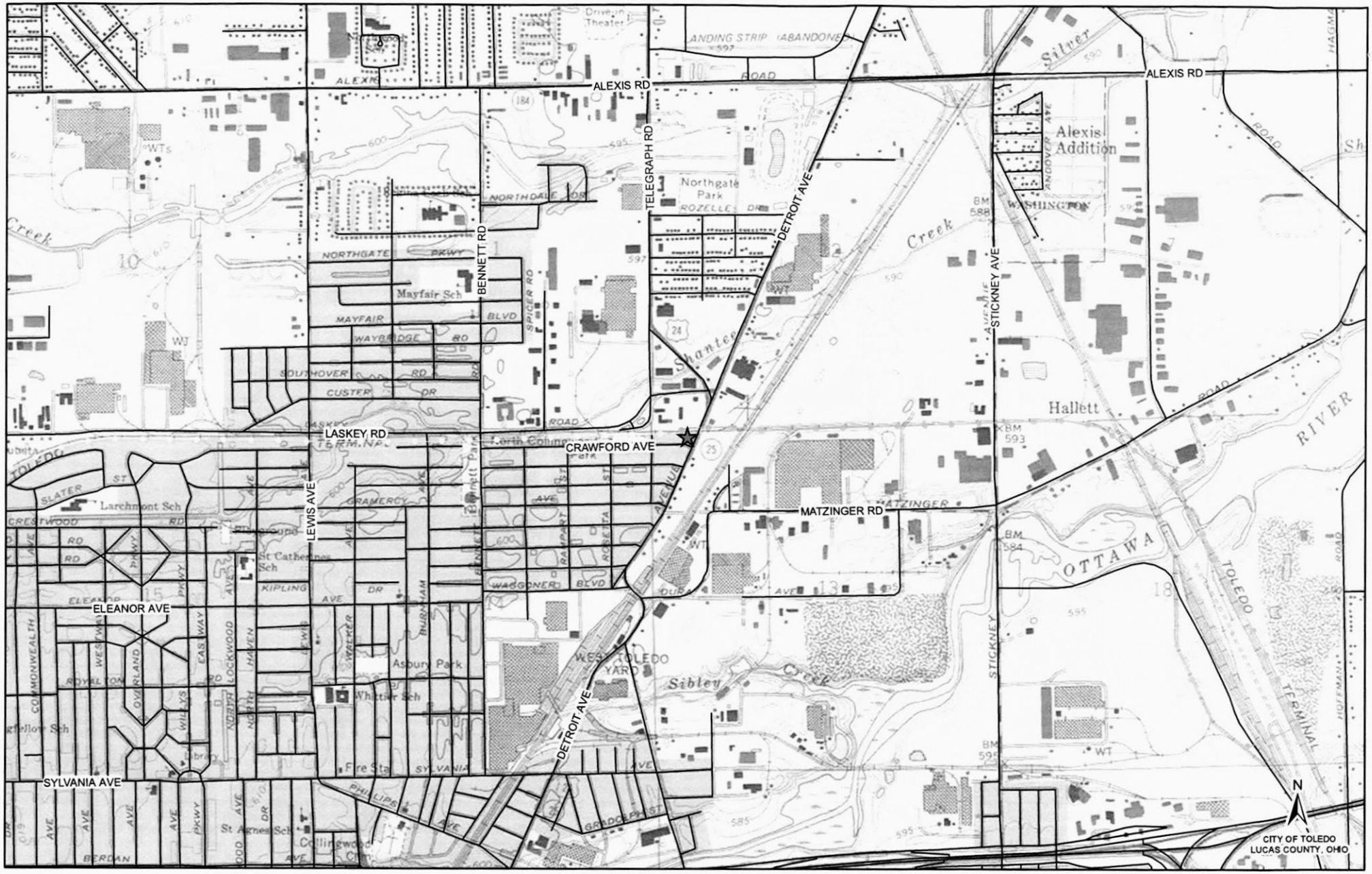
Mr. Steven Shrake,
City of Toledo
Chief Building Official
1 Government Center Suite 1600
Toledo, OH 43604

Library

Ms. Andrea Hudak, Branch Manager
West Toledo Branch Library
1320 Sylvania Avenue
Toledo, OH 43612

Copies of the transmittal letters to these officials have been included with this applications proof of compliance under OAC Rule 4906-6-07 (B) to provide the OPSB with proof of notice to local officials as required by OAC Rule 4906-6-07 (A)(1) and to libraries per OAC Rule 4906-6-07 (A)(2).

Information is posted at www.firstenergycorp.com/about/transmission_project/ohio.html on how to request an electronic or paper copy of this Construction Notice application. The link to this website is being provided to meet the requirements of OAC Rule 4906-6-07 (B) and to provide the OPSB with proof of compliance with the notice requirements in OAC Rule 4906-6-07 (A)(3).



LEGEND:

- ★ Project Location
- Dixie-Jackman 138kV
- Dixie-Jeep No2 138kV
- Road

0 1,000 2,000 4,000
Feet

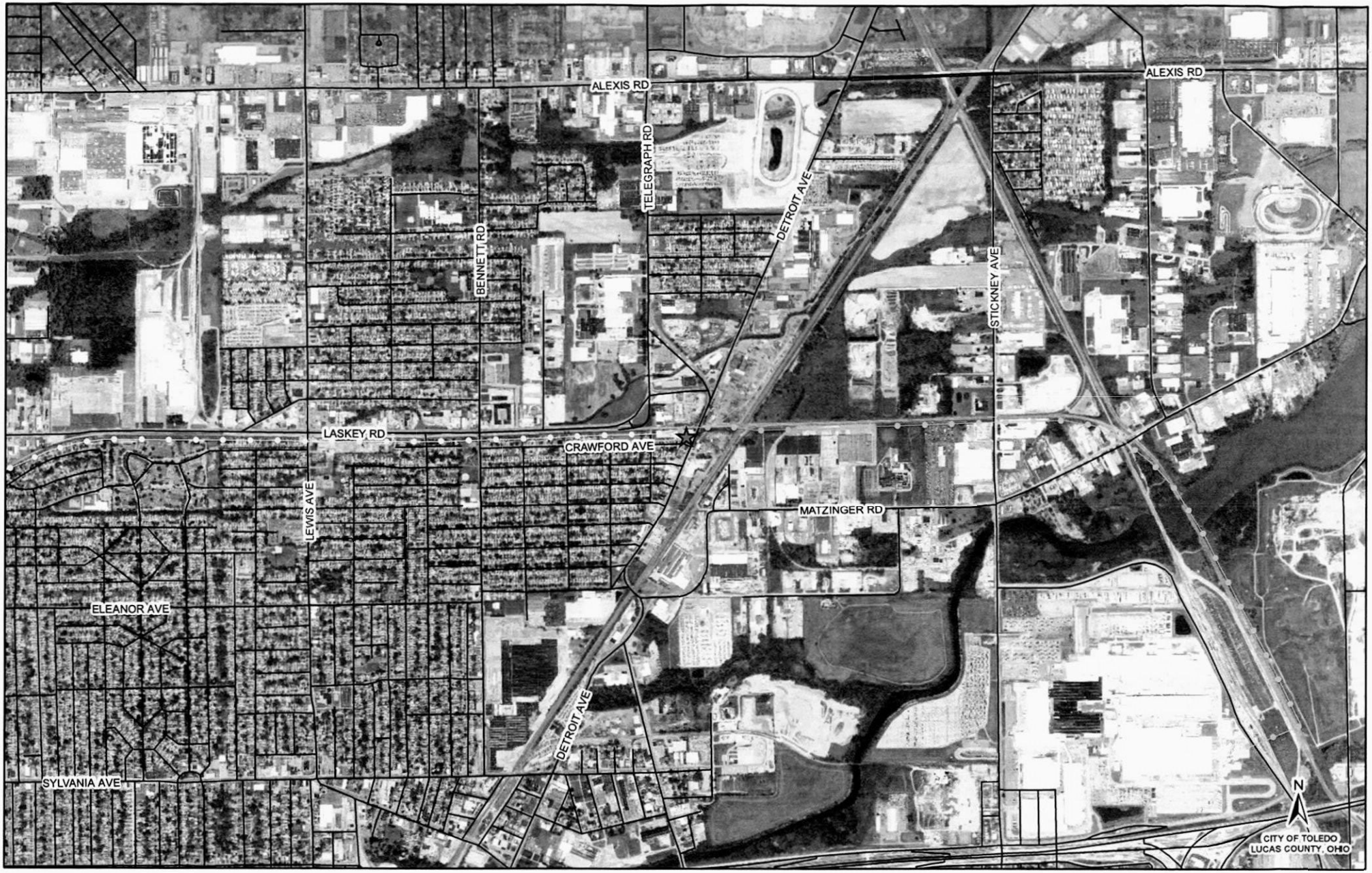
Reference:
USGS; ODOT TIMS

Coordinate System:
NAD 1983 StatePlane Ohio North FIPS 3401 Feet
Projection: Lambert Conformal Conic; Units: Foot US

EXHIBIT 1

ATSI
American Transmission Systems, Inc.
a subsidiary of FirstEnergy Corp.

Dixie Substation Expansion Project



LEGEND:

- Project Location
- Dixie-Jackman 138kV
- Dixie-Jeep No2 138kV
- Road

0 1,000 2,000 4,000
Feet

Reference:
ESRI; ODOT TIMS

Coordinate System:
NAD 1983 StatePlane Ohio North FIPS 3401 Feet
Projection: Lambert Conformal Conic; Units: Foot US

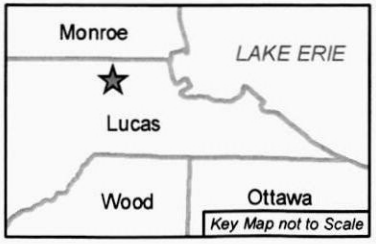
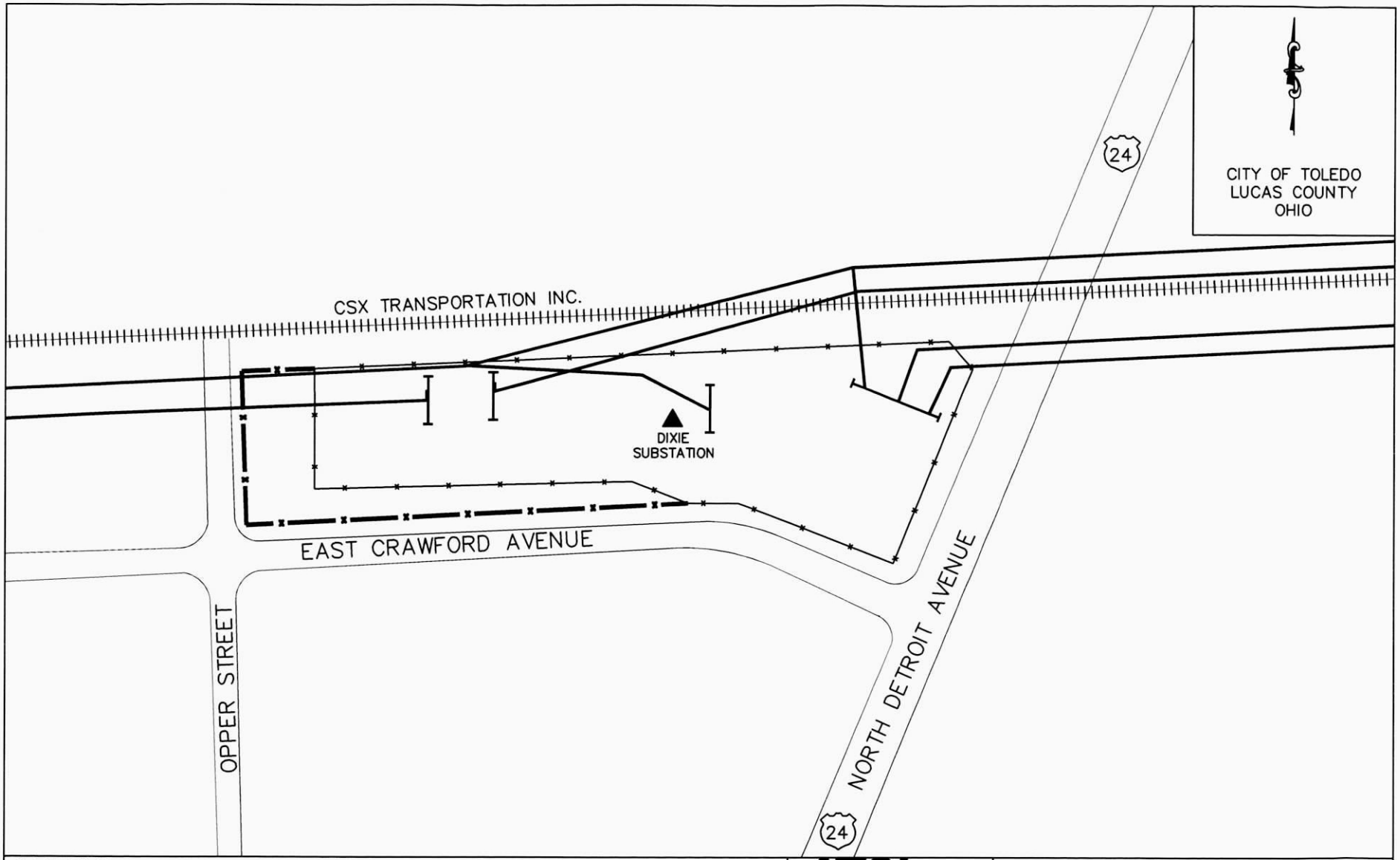


EXHIBIT 2

ATSI®
American Transmission Systems, Inc.
a subsidiary of FirstEnergy Corp.

Dixie Substation Expansion Project



LEGEND

▲	EXISTING SUBSTATION	———	EXISTING CONDUCTOR
—×—	EXISTING SUBSTATION FENCE LINE	———	EXISTING ROADS
—×—	PROPOSED SUBSTATION EXPANSION FENCE LINE	╫╫╫╫	RAILROAD

ATSI®
American Transmission Systems, Inc.
a subsidiary of FirstEnergy Corp.

DIXIE SUBSTATION EXPANSION PROJECT

GENERAL LAYOUT

EXHIBIT 3

EXHIBIT 4

ATSI Transmission Zone: Supplemental Dixie 138 kV Ring Bus Project

Previously Presented: 8/31/2018 SRRTEP

Problem Statement (Scope and Need/Drivers):

Operational Flexibility and Efficiency

- Improve operational flexibility during maintenance and restoration efforts.
- Reduce the amount of local load loss (Approximately 33 MWs) under (P2) contingency conditions (bus or breaker failure) at Dixie substation.
- Strengthen 138 kV system voltage under contingency (P6) condition; backfeed condition.
  - *Loss of Bayshore-Jeep #2 138 kV and Dixie-Jackman 138 kV line*
  - *Results in lower 138 kV system voltage (0.91 p.u.) under backfeed condition.*

Selected Solution:

Dixie 138 kV Ring Bus Project **(S1707)**

- Expand the existing 138 kV substation at Dixie to a 6-breaker ring bus.
- Reconfigure Dixie substation to include terminals for:
  - Dixie-Jeep 138 kV line
  - Dixie-Jackman 138 kV line
  - One (1) 138/69 kV transformer
  - Two (2) load connection 138-12.5 kV transformers and a mobile 28 MVAR cap bank

Estimated Project Cost: $7.7 M

Projected IS Date: 6/1/2020

Status: Engineering

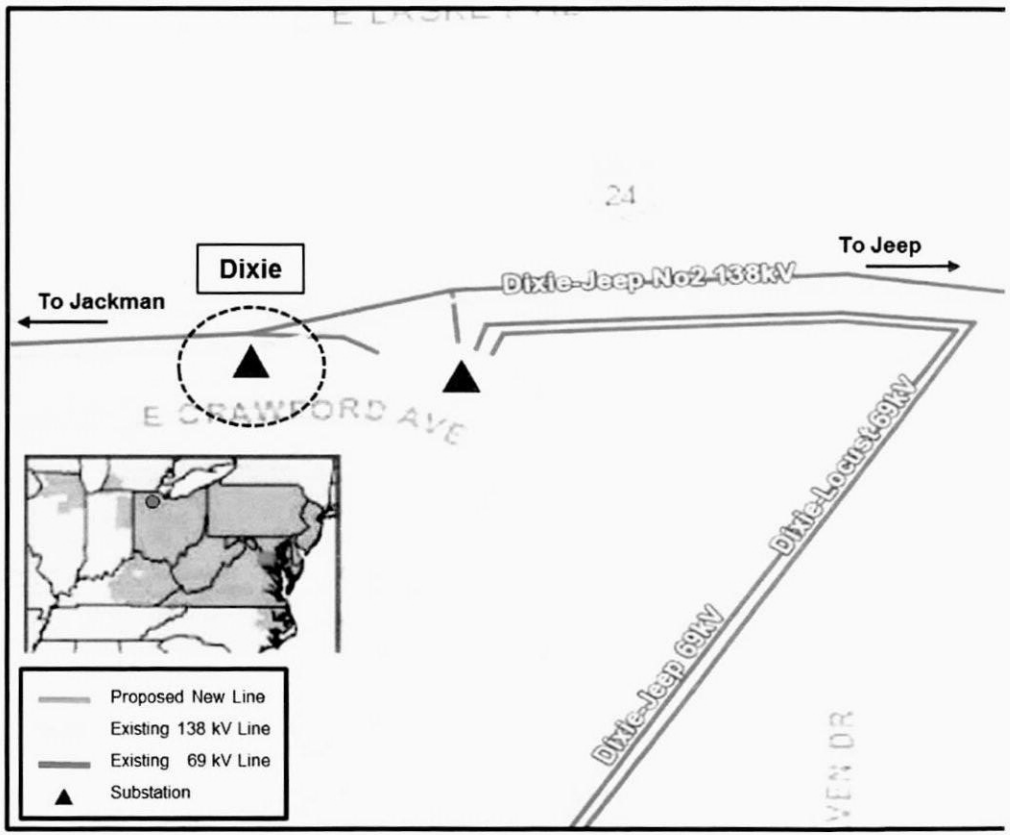


EXHIBIT 5

Ohio Historic Preservation Office

Legend

NR Listings
- Listed
- National Historic Landmark
- Delisted

NR Determinations of Eligibi

Historic Structures

Historic Bridges

Historic Tax Credit Projects

OGS Cemeteries
- Confident
- Not Confident

Dams

UTM Zone Split

NR Boundaries

Phase1

Phase2

Phase3

Historic Previously Surveyec

0 0.30 0.61 Miles

1: 24,000

Copyright/Disclaimer

This map is a user generated static output from an Internet mapping site and is for generalThis map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Datum: [Datum]

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

EXHIBIT 6

Ohio Department of Natural Resources

MIKE DEWINE, GOVERNOR | MARY MERTZ, DIRECTOR

Office of Real Estate
John Kessler, Chief
2045 Morse Road – Bldg. E-2
Columbus, OH 43229
Phone: (614) 265-6621
Fax: (614) 267-4764

April 9, 2020

Maggie Molnar
TRC
921 Eastwind Drive, Suite 122
Westerville, Ohio 43081

Re: 20-269; Dixie Substation Project

Project: The proposed project involves expansion of the existing Dixie Substation.

Location: The proposed project is located in the City of Toledo, Lucas County, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

Natural Heritage Database: The Natural Heritage Database has no records at or within a one-mile radius of the project area.

A review of the Ohio Natural Heritage Database indicates there are no other records of state endangered or threatened plants or animals within the project area. There are also no records of state potentially threatened plants, special interest or species of concern animals, or any federally listed species. In addition, we are unaware of any unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, state nature preserves, state or national parks, state or national forests, national wildlife refuges, or other protected natural areas within the project area. The review was performed on the project area you specified in your request as well as an additional one-mile radius. Records searched date from 1980.

Please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Although all types of plant communities have been surveyed, we only maintain records on the highest quality areas.

Fish and Wildlife: The Division of Wildlife (DOW) has the following comments.

The DOW recommends that impacts to streams, wetlands and other water resources be avoided and minimized to the fullest extent possible, and that best management practices be utilized to minimize erosion and sedimentation.

The project is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species. The following species of trees have relatively high value as potential Indiana bat roost trees to include: shagbark hickory (*Carya ovata*), shellbark hickory (*Carya laciniosa*), bitternut hickory (*Carya cordiformis*), black ash (*Fraxinus nigra*), green ash (*Fraxinus pennsylvanica*), white ash (*Fraxinus americana*), shingle oak (*Quercus imbricaria*), northern red oak (*Quercus rubra*), slippery elm (*Ulmus rubra*), American elm (*Ulmus americana*), eastern cottonwood (*Populus deltoides*), silver maple (*Acer saccharinum*), sassafras (*Sassafras albidum*), post oak (*Quercus stellata*), and white oak (*Quercus alba*). Indiana bat roost trees consists of trees that include dead and dying trees with exfoliating bark, crevices, or cavities in upland areas or riparian corridors and living trees with exfoliating bark, cavities, or hollow areas formed from broken branches or tops. However, Indiana bats are also dependent on the forest structure surrounding roost trees. If suitable habitat occurs within the project area, the DOW recommends trees be conserved. If suitable habitat occurs within the project area and trees must be cut, the DOW recommends cutting occur between October 1 and March 31. If suitable trees must be cut during the summer months, the DOW recommends a net survey be conducted between June 1 and August 15, prior to any cutting. Net surveys should incorporate either nine net nights per square 0.5 kilometer of project area, or four net nights per kilometer for linear projects. If no tree removal is proposed, this project is not likely to impact this species.

The project is within the range of the snuffbox (*Epioblasma triquetra*), a state endangered and federally endangered mussel, the eastern pondmussel *(Ligumia nasuta*), a state endangered mussel, the range of the rayed bean (*Villosa fabalis*), a state endangered and federally endangered mussel, the pondhorn (*Uniomerus tetralasmus*), a state threatened mussel, the black sandshell (*Ligumia recta*), a state threatened mussel, the fawnsfoot (*Truncilla donaciformis*), a state threatened mussel, and the threehorn wartyback (*Obliquaria reflexa*), a state threatened mussel. Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the western banded killifish (*Fundulus diaphanus menona*), a state endangered fish, the lake sturgeon (*Acipenser fulvescens*), a state endangered fish, the channel darter (*Percina copelandi*), a state threatened fish, the American eel (*Anguilla rostrata*), a state threatened fish, and the greater redhorse (*Moxostoma valenciennesi*), a state threatened fish. Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the Blanding's turtle (*Emydoidea blandingii*), a state threatened species. This species inhabits marshes, ponds, lakes, streams, wet meadows, and swampy forests. Although essentially aquatic, the Blanding's turtle will travel over land as it moves from one wetland to the next. Due to the location, the type of habitat at the project site and within the vicinity of the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the spotted turtle (*Clemmys guttata*), a state threatened species. This species prefers fens, bogs and marshes, but also is known to inhabit wet prairies, meadows, pond edges, wet woods, and the shallow sluggish waters of small streams and ditches. Due to the

location, the type of habitat at the project site and within the vicinity of the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the Kirtland's snake (*Clonophis kirtlandii*), a state threatened species. This secretive species prefers wet fields and meadows. Due to the location, the type of habitat at the project site and within the vicinity of the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the blue-spotted salamander (*Ambystoma laterale)*, a state endangered species. Due to the location, the type of habitat at the project site and within the vicinity of the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the piping plover (*Charadrius melodus*), a state endangered, and federally endangered bird, and the Kirtland's warbler (*Setophaga kirtlandii*), a state endangered and federally endangered bird. These species do not nest in the state but only utilize stopover habitat as they migrate through the region. Due to the location, and the type of work proposed, this project is not likely to impact these species.

The project is within the range of the American bittern (*Botaurus lentiginosus*), a state endangered bird. Nesting bitterns prefer large undisturbed wetlands that have scattered small pools amongst dense vegetation. They occasionally occupy bogs, large wet meadows, and dense shrubby swamps. Due to the location, the type of habitat at the project site, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the black tern (*Chlidonias niger*), a state endangered bird. The black tern prefers large, undisturbed inland marshes with fairly dense vegetation and pockets of open water. They nest in various kinds of marsh vegetation, but cattail marshes are generally favored. Nests are built on top of muskrat houses or on top of floating vegetation. Due to the location, the type of habitat at the project site, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the common tern (*Sterna hirundo*), a state endangered bird. The preferred nesting sites of common terns are natural or man-made islands that are free of mammalian predators and human disturbance. They will also utilize mainland beaches and dredge disposal areas but only when islands are unavailable. The common tern nests in colonies. Their eggs are laid in a grass-lined depression in the sand. Due to the location, the type of habitat at the project site, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the king rail (*Rallus elegans*), a state endangered bird. Nests for this species are deep bowls constructed out of grass and usually hidden very well in marsh vegetation. Due to the location, the type of habitat at the project site, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the cattle egret (*Bubulcus ibis*), a state endangered bird. Cattle egrets are not strictly wetland birds. They often forage in dry pastures and fields. Egrets nest in colonies and will build a nest out of sticks and other materials wherever it can be supported. Due to the location, the type of habitat at the project site, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the lark sparrow (*Chondestes grammacus*), a state endangered bird. This sparrow nests in grassland habitats with scattered shrub layers, disturbed open areas, as well as patches of bare soil. In the Oak Openings area west of Toledo, lark sparrows occupy open grass and shrubby fields along sandy beach ridges. These summer residents normally migrate out of Ohio shortly after their young fledge or leave the nest. Due to the location, the type of habitat at the project site, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the upland sandpiper (*Bartramia longicauda*), a state endangered bird. Nesting upland sandpipers utilize dry grasslands including native grasslands, seeded grasslands, grazed and ungrazed pasture, hayfields, and grasslands established through the Conservation Reserve Program (CRP). Due to the location, the type of habitat at the project site, and the type of work proposed, this project is not likely to impact this species.

Due to the potential of impacts to federally listed species, as well as to state listed species, we recommend that this project be coordinated with the U.S. Fish & Wildlife Service.

Water Resources: The Division of Water Resources has the following comment.

The local floodplain administrator should be contacted concerning the possible need for any floodplain permits or approvals for this project. Your local floodplain administrator contact information can be found at the website below.

http://water.ohiodnr.gov/portals/soilwater/pdf/floodplain/Floodplain%20Manager%20Community%20Contact%20List_8_16.pdf

ODNR appreciates the opportunity to provide these comments. Please contact Sarah Tebbe, Environmental Specialist, at (614) 265-6397 or Sarah.Tebbe@dnr.state.oh.us if you have questions about these comments or need additional information.

Mike Pettegrew
Environmental Services Administrator (Acting)

EXHIBIT 7

From: Ohio, FW3 <ohio@fws.gov>
Sent: Tuesday, March 17, 2020 9:25 AM
To: Molnar, Maggie <MMolnar@trccompanies.com>
Cc: nathan.reardon@dnr.state.oh.us; kate.parsons@dnr.state.oh.us
Subject: [EXTERNAL] TRC No 286577.0034 Dixie Substation, City of Toledo Lucas County

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. Fish and Wildlife Service
Ecological Services Office
4625 Morse Road, Suite 104
Columbus, Ohio 43230
(614) 416-8993 / Fax (614) 416-8994

TAILS# 03E15000-2020-TA-1011

Dear Ms. Molnar,

We have received your recent correspondence requesting information about the subject proposal. There are no federal wilderness areas, wildlife refuges or designated critical habitat within the vicinity of the project area. The following comments and recommendations will assist you in fulfilling the requirements for consultation under section 7 of the Endangered Species Act of 1973, as amended (ESA).

The U.S. Fish and Wildlife Service (Service) recommends that proposed developments avoid and minimize water quality impacts and impacts to high quality fish and wildlife habitat (e.g., forests, streams, wetlands). Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions. If streams or wetlands will be impacted, the Corps of Engineers should be contacted to determine whether a Clean Water Act section 404 permit is required. Best management practices should be used to minimize erosion, especially on slopes. All disturbed areas should be mulched and revegetated with native plant species. Prevention of non-native, invasive plant establishment is critical in maintaining high quality habitats.

FEDERALLY LISTED SPECIES COMMENTS: All projects in the State of Ohio lie within the range of the federally endangered **Indiana bat** (*Myotis sodalis*) and the federally threatened **northern long-eared bat** (*Myotis septentrionalis*). In Ohio, presence of the Indiana bat and northern long-eared bat is assumed wherever suitable habitat occurs unless a presence/absence survey has been performed to document absence. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and

adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (i.e., live trees and/or snags ≥3 inches diameter at breast height (dbh) that have any exfoliating bark, cracks, crevices, hollows and/or cavities), as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet (305 meters) of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat. In the winter, Indiana bats and northern long-eared bats hibernate in caves and abandoned mines.

Should the proposed site contain trees ≥3 inches dbh, we recommend that trees be saved wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees ≥3 inches dbh cannot be avoided, we recommend that removal of any trees ≥3 inches dbh only occur between October 1 and March 31. Seasonal clearing is being recommended to avoid adverse effects to Indiana bats and northern long-eared bats. While incidental take of northern long-eared bats from most tree clearing is exempted by a 4(d) rule (see http://www.fws.gov/midwest/endangered/mammals/nleb/index.html), incidental take of Indiana bats is still prohibited without a project-specific exemption. Thus, seasonal clearing is recommended where Indiana bats are assumed present.

If implementation of this seasonal tree cutting recommendation is not possible, summer surveys may be conducted to document the presence or probable absence of Indiana bats within the project area during the summer. If a summer survey documents probable absence of Indiana bats, the 4(d) rule for the northern long-eared bat could be applied. Surveys must be conducted by an approved surveyor and be designed and conducted in coordination with the Endangered Species Coordinator for this office. Surveyors must have a valid federal permit. Please note that in Ohio summer mist net surveys may only be conducted between June 1 and August 15.

If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), no tree clearing should occur on any portion of the project area until consultation under section 7 of the ESA, between the Service and the federal action agency, is completed. We recommend that the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence.

Due to the project type, size, and location, we do not anticipate adverse effects to any other federally endangered, threatened, proposed, or candidate species. Should the project design change, or during the term of this action, additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, consultation with the Service should be initiated to assess any potential impacts.

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the ESA, and are consistent with the intent of the National Environmental Policy Act of 1969 and the Service's Mitigation Policy. This letter provides technical assistance only and does not serve as a completed section 7 consultation document. We recommend that the project be coordinated with the Ohio Department of Natural Resources due to

the potential for the project to affect state listed species and/or state lands. Contact John Kessler, Environmental Services Administrator, at (614) 265-6621 or at john.kessler@dnr.state.oh.us.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or ohio@fws.gov.

Sincerely,

Patrice M. Ashfield
Field Office Supervisor

cc: Nathan Reardon, ODNR-DOW

Kate Parsons, ODNR-DOW