



**PATTON TOWNSHIP
CENTRE COUNTY, PENNSYLVANIA**

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**PLANNING COMMISSION
REORGANIZATIONAL MEETING AGENDA
February 2, 2026
4:30 PM**

PLEASE NOTE: This meeting will be a hybrid meeting, combining in-person and teleconferencing. In person attendance: The Board Meeting Room at the Municipal Building – 100 Patton Plaza.

The Public is welcome to attend via Zoom or in person, but may also provide comments prior to the meeting: Email – epz@twp.patton.pa.us; Phone – 814-234-0271 (ask for the Engineering, Planning, and Zoning Department)

Join Zoom Meeting

<https://us02web.zoom.us/j/81388083396>

Meeting ID: 813 8808 3396

Find your local number: <https://us02web.zoom.us/j/81388083396>

The meeting will be live streamed at

<https://www.youtube.com/user/CNetCentreCounty/live>

1. CALL TO ORDER

a. Additions to the Posted Agenda*

2. APPROVAL OF MINUTES

Minutes from the Patton Township Planning Commission's January 12, 2026, regular meeting are included with this evening's agenda for review, potential edits, and approval.

3. PUBLIC COMMENTS

Residents and property owners may address the Commission on issues of interest to the Township. Comments related to specific agenda items should be deferred until that point in the meeting.

4. ACT 537 PLAN SPECIAL STUDY FOR THE MEEKS LANE PUMP STATION

The Centre Region Planning Agency received a revised Special Study for the Meeks Lane Pump Station Project from University Area Joint Authority (UAJA) and their consultant. The study identifies six alternatives for the Project.

A Task Activity Report (TAR) for the Meeks Lane Pump Station was authorized by the COG Public Services & Environmental Committee at its September 5, 2019, meeting and approved by DEP on October 16, 2019. Several iterations of the plan were developed between 2020 and 2022 to evaluate different sewer flow scenarios and potential pump station and force main locations. However, the plan was never formally adopted by the Centre Region COG or its municipalities. It has been revised and was resubmitted for review on October 17, 2025.

The proposal includes the construction of a new pump station at Meeks Lane which would negate the need for three (3) existing pump stations. All work proposed is within the Sewer Service Area (SSA) and Regional Growth Boundary (RGB). Provided with the agenda is the transmittal letter and special study submitted by HRG on behalf of the UAJA.

The Township received plans for the Reserve and the Reserve East, which need the pump station to proceed.

The Township has been identified as a stakeholder in this process and is being asked to provide comment on the special study. Comments were to be received by December 23, 2025.

The Planning Commission reviewed the special study at their December 1, 2025, meeting and did not have any comments on the study. The Board of Supervisors reviewed the study at their December 10, 2025, meeting.

Representatives from UAJA have been invited to the meeting to answer any questions the Planning Commission may have on the special study.

*Reference Resolution 2022-008: Policy for Adding items to Published Agendas in Accordance with Act 65 of 2021.

5. PARK FOREST MIDDLE SCHOOL LOT CONSOLIDATION PLAN

Provided in the agenda is the Park Forest Middle School Lot Consolidation plan for parcels owned by the State College Area School District (SCASD), identified as TP: 18003-,061A,0000- and TP: 18-016-,259B,0000-. The properties are located at the future Park Forest Middle School site. Parcel 18-003-,061A,0000- contains approximately 18.56 acres and is zoned R1–Rural Residence. Parcel 18-016-,259B,0000- contains approximately 7.40 acres and is zoned R3–Medium Density Residence. The plan proposes to consolidate both tracts into a single parcel totaling approximately 25.96 acres.

The lot consolidation does not alter the underlying zoning boundaries; therefore, the resulting parcel will continue to include areas within both the R1 and R3 zoning districts. Since no new development is proposed as part of this plan, it is able to proceed to approval. There has been a land development plan submitted for the site that is currently being reviewed by staff. These will be considered by Planning Commission and the Board of Supervisors at a future meeting once all conditions and staff review comments have been met.

Staff recommends conditional approval of the Park Forest Middle School Lot Consolidation Plan subject to the Township Staff comment letter, dated August 21, 2025.

Township staff suggests the following approach:

- Review the provided/referenced materials
- Solicit additional information as needed from the presenters or staff
- Solicit public input
- Solicit questions or comments from staff

Consider Action:

- Recommend to the BOS approval of the plan
- Identify ordinance deficiencies and recommend to the BOS denial of the plan
- Identify additional information required prior to acting.

*Reference Resolution 2022-008: Policy for Adding items to Published Agendas in Accordance with Act 65 of 2021.

6. PARK FOREST MIDDLE SCHOOL CONDITIONAL USE APPLICATION

On August 19, 2025, ELA Group, Inc., on behalf of their client, State College Area School District (SCASD), submitted a Conditional Use Application for a school use located at 207 Little Lion Drive (TP: 18-003-,061A,0000-). This property is approximately 18.56 AC and is zoned Rural Residence (R-1). Patton Township received time extensions for the conditional use application on September 29, 2025, and November 21, 2025.

The proposed use includes a 3-story, 278,000 gross square foot school with 384 parking spaces are being provided at the new school and 68 spaces are being provided at the existing school site. The applicant is seeking conditional use approval for the school use, which is a permitted use in the R-1 district subject to conditional use approval. Conditional uses in the R-1 zoning district are subject to buffer yard requirements of §425-46A.

A conditional use is a land use that is permitted in a specified zoning district, and one that is subject to additional zoning requirements that applicants must meet as part of the conditional use process. Approval of a conditional use permit does not equate to zoning permit approval and it is a necessary step in the process for constructing the Park Forest Middle School.

Reasonable conditions and safeguards, other than those related to off-site transportation improvements, in addition to those expressed in the zoning ordinance, can be attached to the conditional use permit as the Board may deem necessary for the health, safety, and welfare of the municipality. The conditions must be reasonably related to a valid public interest established in the record of application.

Provided in the agenda are findings of facts and exhibits prepared by Staff.

Conditions that Staff are recommending to the Board of Supervisors are provided below. These conditions are intended to protect the public health, safety, and welfare and are reasonably related to the proposed use:

- The land development plan shall not be recorded until a Traffic Impact Study (TIS), resulting from the required signal warrants analysis, has been completed and reviewed to the satisfaction of Patton Township.
- No certificate of occupancy shall be issued for the proposed school until all required traffic-related improvements identified through the TIS have been fully constructed, installed, and inspected to the satisfaction of Patton Township.
- Throughout construction and during occupancy of the site, pedestrian and vehicular access to Circleville Park shall be maintained in a manner acceptable to the Township.

*Reference Resolution 2022-008: Policy for Adding items to Published Agendas in Accordance with Act 65 of 2021.

- During construction, the applicant shall install and maintain protective fencing along the Haugh Tract (Tax Parcel No. 18-003-061-0000), which is deed-restricted. This area shall not be disturbed during construction or occupancy.
- Prior to final plan approval, the applicant shall provide a shared parking agreement for the use of parking spaces located at the existing middle school site (Tax Parcel No. 18-016-258-0000). The agreement shall:
 - Preserve the availability of off-site parking for use associated with the new Park Forest Middle School (Tax Parcel No. 18-003-061A-0000);
 - Include provisions addressing the long-term use, maintenance, and access to the off-site parking; and
 - Include the use of the proposed pedestrian sidewalk connection between the existing school parking area and Valley Vista Drive. This sidewalk shall be maintained and adequately lit for the duration of time that the off-site parking is utilized.
 - In the event that the off-site parking at the existing middle school site (TP: 18-016-258-0000) is eliminated or otherwise made unavailable, the applicant shall provide equivalent replacement parking on the Park Forest Middle School property (TP: 18-003-061A-0000) and shall comply with Township ordinances.
- The applicant proposes approximately 481,085 square feet of impervious coverage, resulting in a total impervious coverage of approximately 59.68% on Tax Parcel No. 18-003-061A-0000, which exceeds the 20% maximum impervious coverage permitted in the Rural Residence (R-1) Zoning District. The applicant shall fully mitigate the additional impervious coverage through the approved Stormwater Management Plan, to the satisfaction of Patton Township.
- Prior to plan recordation, the applicant shall enter into a Developer's Agreement with Patton Township, in a form acceptable to the Township Solicitor.
- A Declaration of Stormwater Access and Maintenance Easement (DSAME) shall be executed and recorded in the Office of the Recorder of Deeds of Centre County along with the plan recordation.

Staff suggest the following approach for this item:

- Review the provided/referenced materials
- Solicit additional information as need from the presenters or staff
- Solicit public input

*Reference Resolution 2022-008: Policy for Adding items to Published Agendas in Accordance with Act 65 of 2021.

- Solicit questions or comments from staff

Consider Action:

- Recommend to the BOS
- Recommend to the BOS with conditions

7. FUTURE LAND USE PRIMER

CRPA Staff will provide a Future Land Use Primer to orient Planning Commissioners to key components of the Comprehensive Plan update. The presentation will include an overview of the updated Land Use categories, a recap of the Trend Reports—including the newly developed Sustainability Trend Report—and an introduction to a live, web-based Existing Land Use Map to allow participants to view current land use conditions.

The presentation will also include a review of the Regional Development Capacity Report (REDCAP) to help Planning Commissioners understand development capacity within the Regional Growth Boundary (RGB) and Sewer Service Area (SSA) in advance of the upcoming joint meeting with elected officials for the Future Land Use Map for Patton Township.

Staff suggest the following approach for this item:

- Review the provided/referenced materials
- Solicit additional information as need from the presenters or staff
- Solicit public input
- Solicit questions or comments from staff

Consider Action:

- This is a discussion item, no action is required.

8. OTHER BUSINESS

9. ADJOURN

FOR YOUR INFORMATION

- A) Development Update
- B) BOS Representatives:

*Reference Resolution 2022-008: Policy for Adding items to Published Agendas in Accordance with Act 65 of 2021.

ATTENDANCE

Planning Commission

*William Burnett, Chair - Absent
Ellen Foreman, Vice Chair
Debbi Scitti, Secretary
James Prowant
Daniel Morrow
Kristin Dzvonyicsak, Alt.
Sharon Collins*

Township Staff

*Amy Farkas, Township Manager
Ryan Scanlan, Assistant Township Manager for Public Works
Nicole Harter, Zoning Officer-Absent
Summer Brown, Admin. Asst.*

Audience

C-Net, Dave Wilson, Greg Garthe, John Trant, Susan Chyczewski.

****Meeting was Hybrid**

1. CALL TO ORDER

The January 12, 2026 Reorganizational Planning Commission meeting was called to order at 4:30 PM by Mrs. Nicole Harter.

2. ORGANIZATION

Mrs. Harter opened nominations for the following positions: Chair, Vice-Chair, Secretary, and Alternate Secretary. The Commission nominated Ellen Foresman as Chair, Daniel Morrow as Vice-Chair, Debbie Scitti as Secretary, and Sharon Collins as alternate Secretary. The Commission reviewed the 2026 meeting dates and times and unanimously voted on the dates and 4:30 pm start time.

3. APPROVAL OF MINUTES

The meeting minutes from the December 12, 2025 regular meeting were presented to the Planning Commission for approval. Ms. Ellen Foresman noted that there was a lengthy discussion regarding the Meeks Lane Pump Station that she would like added to the minutes. Ms. Sharon Collins made a motion to approve the December 1, 2025 meeting minutes amended, Ms. Debbie Scitti seconded the motion, and the motion passed unanimously.

4. PUBLIC COMMENTS

5. SKETCH PLAN FOR DICK'S SPORTING GOODS

Mrs. Harter provided the Commission with background information on the Dick's Sporting Goods sketch plan. She stated that Dick's Sporting Goods is proposing to relocate its current store to vacant land within the Colonnade development. The parcel is

zoned C-2 Commercial District. The proposed building size is approximately 60,016 square feet and will include three additional retail spaces. This project would complete the build-out of the master plan. Ms. Harter noted that while the Township Planning Commission may provide comments, Township staff cannot comment on a sketch plan.

Mr. Dave Wilson of Colliers Engineering and Design, representing Allied Properties and Dick's Sporting Goods, addressed the Commission. Mr. Wilson stated that he was present to receive feedback from the Planning Commission prior to submitting a formal application to the Township. He reviewed the proposed plan with the Commission and noted that the project team is aware of and will comply with newly adopted regulations.

The Commission discussed the proposed store sizes and inquired whether tenants had been identified for the additional retail spaces. Ms. Foreman asked about the inclusion of sidewalks and bike lanes throughout the Colonnade shopping center. Mr. Wilson responded that this would be evaluated and coordinated with Township requirements.

6. INTRODUCTION OF STRATEGIC SOLUTIONS

Ms. Amy Farkas introduced Strategic Solutions as Patton Township's new local planning firm. She introduced Mr. John Trant and Mr. Greg Garthe, who will be representing Strategic Solutions. Ms. Farkas also noted that Strategic Solutions will be providing educational training for the Planning Commission.

7. OTHER BUSINESS

8. ADJOURN

Ms. Foreman ended the meeting at 5:00 PM.

*Reference Resolution 2022-008: Policy for Adding items to Published Agendas in Accordance with Act 65 of 2021.

CRPA Centre Regional Planning Agency

2643 Gateway Drive, Suite #4 • State College, PA 16801 • Phone (814) 231-3050 • www.crcog.net

DATE: October 27, 2025
TO: Patton Township, SCBWA, CTWA, Penn State, and ClearWater Conservancy
FROM: Pam Adams, Director
RE: **Review and Comment Request for the revised Special Study for the Meeks Lane Pump Station**

Via the provided link here <https://hrg3.box.com/s/iy80x0cv2qwysm42ai8lmjn3ezowiuoh> and in the email you will find the revised Special Study for the Meeks Lane Pump Station Project from UAJA and their consultant. The Study identifies six alternatives for the Project.

A Task Activity Report (TAR) for the Meeks Lane Pump Station was authorized by the COG Public Services & Environmental Committee at its September 5, 2019 meeting and approved by DEP on October 16, 2019. Several iterations of the plan were developed between 2020 and 2022 to evaluate different sewer flow scenarios and potential pump station and force main locations. However, the plan was never formally adopted by the Centre Region COG or its municipalities. It has been revised and was resubmitted for review on October 17th.

Patton Township has received preliminary plans for The Reserve and The Reserve East, both of which need the pump station to proceed.

You have been identified as stakeholders for the review of this Special Study. Please provide initial written comments to the CRPA no later than the end of business on Wednesday, November 26, 2025.

Once the feedback from the stakeholders is incorporated into the Special Study there will be another round of reviews planned for which public comment will be sought prior to formal recommendation and decision-making meetings being held. I will provide more information on future dates for process steps as those materialize.

As always, do not hesitate to reach out to me with any questions or concerns.

cc: Ben Estell, COG Executive Director
Jenna Wargo, CRPA Principle Planner
COG Land Use & Community Infrastructure Committee
Centre Regional Planning Commission
Cory Miller, UAJA Executive Director
Ben Burns, Water/Wastewater Team Leader, HRG Engineering

The logo for HRG, consisting of the letters 'HRG' in a large, bold, white sans-serif font on a dark red background.

Herbert, Rowland & Grubic, Inc.
Engineering & Related Services

AN EMPLOYEE-OWNED COMPANY

SPECIAL STUDY FOR THE MEEKS LANE PUMP STATION

2021 CENTRE REGION ACT 537 SEWAGE FACILITIES PLAN UPDATE:

Submitted by:

HERBERT, ROWLAND & GRUBIC, INC.

2568 Park Center Boulevard

State College, PA 16801

814.238.7117

R001178.0663

Submitted to:

PA DEP NORTHCENTRAL REGIONAL OFFICE

ATTN: Bureau of Clean Water
208 West Third Street, Suite 101
Williamsport, PA 17707

Last Revised: October 17, 2025

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EXECUTIVE SUMMARY

Introduction

The Centre Region consists of six municipalities located in the south-central portion of Centre County, Pennsylvania: College, Ferguson, Halfmoon, Harris, and Patton Townships and State College Borough. The University Area Joint Authority (UAJA) owns and operates the Centre Region's primary wastewater treatment facility, the Spring Creek Pollution Control Facility (SCPCF). The UAJA works closely with the Centre Regional Planning Agency (CRPA) and local municipal officials on regional planning activities to manage and prepare its system to meet the future needs of the Centre Region.

A Task Activity Report (TAR) for this 2021 Act 537 Sewage Facilities Plan Update: Special Study for the Meeks Lane Pump Station was authorized for submission to the DEP through the Centre Region Approval Process for Act 537 Plan Special Study Task Activity Reports. The TAR was submitted to the DEP on October 8, 2019 and was approved on October 16, 2019.

Special Study Goals

Wastewater generated in the west Patton Township portion of the UAJA's collection system is conveyed through a series of consecutive pump stations, and ultimately to the Spring Creek Pollution Control Facility (SCPCF) for treatment. Planned land development projects within the area will result in the construction of at least three more pump stations. Concern about the long-term reliability of the current and anticipated pump station layout, operation and maintenance costs, and simultaneous pumping issues, has prompted the UAJA to develop and evaluate predominately gravity-based alternatives with a main pump station for wastewater conveyance.

The major goal of this Special Study is to present an alternative conveyance method which generally consists of new gravity sewer interceptors and a single pump station, allowing for the elimination of three existing pump stations and three planned pump stations. Therefore, the planning area includes the portion of west Patton Township within the SSA.

Existing Facilities

The UAJA's collection and conveyance system serves several developments in west Patton Township. This area is primarily made up of residential equivalent dwelling units (EDUs). Non-residential EDUs in the area include the Gray's Woods Elementary School, Good Shepherd Catholic Church, and Geisinger.

Wastewater generated from the Grays Pointe, Brynwood, and Marywood neighborhoods and the Grays Woods Elementary School flows by gravity through a series of PVC sanitary sewer lines to the Marywood Pump Station.

Wastewater generated from the western portion of the Graysdale neighborhood flows by gravity through a series of PVC sanitary sewer lines to the Graysdale 2B Pump Station and is pumped to a gravity connection point near Pin Oak Road, then flows by gravity to the Graysdale 2A Pump Station. Wastewater generated from the eastern portion of the Graysdale neighborhood also flows by gravity to the Graysdale 2A Pump Station.

Current and Projected Wastewater Flows

The Marywood, Graysdale 2B, and Graysdale 2A Pump Stations currently serve a total of 351 EDUs. An additional 14 residences located along the northwest side of Scotia Road could be connected to the sewer system through implementation of an alternative conveyance method in the area.

The number of future connections in the West Patton Township portion of the project area was projected based on available land development plans and on information presented in the Centre Region Planning Agency's (CRPA) 2017 Regional Development Capacity (REDCAP) Report, which is an analysis of the potential development capacity within the RGB/SSA.

Several of the properties identified as vacant have proposed and/or approved development plans, such as the Grays Woods Planned Community and the Reserve. Future development in the West Patton Township portion of the project area is projected to contribute wastewater from approximately 1,280 EDUs to the UAJA's collection and conveyance system.

Table 5.1: Current and Projected Wastewater Flows in West Patton Township

EDU Classification	No. of EDUs	ADF (gpd) ¹	MMAF (gpd) ²	PIF (gpm) ³
Existing Connections	365	63,875	127,750	155
Projected within SSA	1,280	224,000	448,000	544
Total	1,645	287,875	575,750	700

¹Gallons Per Day; Calculated by multiplying the number of EDUs by 175 gpd/EDU.

²Gallons Per Day; Calculated by multiplying the ADF by a peaking factor of 2.0.

³Gallons Per Minute; Calculated by multiplying the ADF by a peaking factor of 3.5 and dividing by the unit conversion of 1,440 minutes per day.

Alternatives Considered

The alternatives considered for this Special Study include the implementation of the previously described conveyance method, i.e., new gravity sewer interceptors and a single pump station to collect and convey wastewater flows that are currently accommodated by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations; and the no-action alternative.

Multiple pump station locations and sewer alignments were considered, including the Cedar Cliff Alternative, the Meeks Lane Alternative, and the Blueberry Crossing Alternative which are described in the following sections. Another alignment was preliminarily considered which crossed the Haugh Family Preserve in Patton Township but was abandoned due to the exceptionally preservative nature of this Open Space and Recreation Area.

Multiple pumping configurations will be considered when the pump station is designed, e.g., submersible pump station, wet well/dry pit pump station, or series pumping. At this time, it is assumed that the new pump station would be constructed generally consisting of duplex submersible pumps within a concrete wet well, control panels and an emergency generator.

CEDAR CLIFF ALTERNATIVE

A technical memorandum was completed in 2015 to evaluate a pump station site, designated as the Waddle Pump Station, and forcemain alignment and to provide the basic preliminary process design and physical sizing for the Cedar Cliff Alternative. The pump station would be located near the intersection of Michael Road and Stevenson Road (State Route 3028) in the Cedar Cliff neighborhood.

The forcemain would generally follow the alignment of Michael Road and then extend to a discharge location along an existing unimproved roadway, where it would transition to a gravity system and flow into the Toftrees Interceptor. The technical memorandum concluded that the Cedar Cliff Alternative is technically feasible. It must be noted however, that residents in the area are highly opposed to this alignment.

Based on preliminary engineering of the pump station, pump model Flygt NP 3301 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions.

MEEKS LANE ALTERNATIVE A

A Basis of Design Report was completed in 2016 to evaluate a pump station site, designated as the Meeks Lane Pump Station, and forcemain alignment and to provide the basic preliminary process design and physical sizing for the Meeks Lane Alternative. The pump station would be located along Meeks Lane near the Spring Hollow Farm.

The forcemain alignment would generally follow Meeks Lane to Grays Woods Boulevard and then extend across the backlot along Scotia Road and cross Circleville Road. From there the alignment would follow an abandoned railroad grade towards Ghaner Drive.

For the Meeks Lane Alternative A, the forcemain would discharge into new gravity sanitary sewer lines near Valley Vista Drive that would be constructed to convey the wastewater flows to the Valley Vista Interceptor.

Based on preliminary engineering of the pump station, pump model Flygt NP 3301 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions.

The existing 8-inch sanitary sewer lines along Valley Vista Drive would become under-sized for handling the additional wastewater flows designed for the Meeks Lane Pump Station. Although the sanitary sewer segment crossing North Atherton Street is currently 12-inch diameter, it was assumed for this Special Study that a new highway crossing would be constructed.

MEEKS LANE ALTERNATIVE B

Due to the heavy traffic and limited space for construction along Valley Vista Road, where the Meeks Lane Alternative A would require significant sanitary sewer replacement, an alternative alignment for forcemain discharge and conveyance to the Valley Vista Interceptor was more recently developed.

The Meeks Lane Alternative B is generally consistent with the previously described alternative, though the forcemain would extend along the existing walking path located between Ghaner Drive and Whisper Ridge Drive. The forcemain would then discharge into new gravity sanitary sewer lines constructed north of the Lowe's to convey the wastewater flows to the Valley Vista Interceptor.

Based on preliminary engineering of the pump station, pump model Flygt NP 3301 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions.

The amount of existing sewer infrastructure that would need to be replaced would be significantly reduced with this alternative forcemain discharge alignment. It was again assumed that a new highway crossing would be constructed under North Atherton Street.

MEEKS LANE ALTERNATIVE C

The Meeks Lane Alternative C is generally consistent with the previously described alternatives, though the forcemain would extend along the backlot to Whisper Ridge Drive and around the small park. The forcemain would then discharge into new gravity sanitary sewer lines constructed north of the Lowe's to convey the wastewater flows to the Valley Vista Interceptor.

Based on preliminary engineering of the pump station, pump model Flygt NP 3301 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under

peak flow conditions. It was again assumed that a new highway crossing would be constructed under North Atherton Street.

MEEKS LANE ALTERNATIVE D

The Meeks Lane Alternative D was designed to keep the pump station within the current sewer service area. This alternative has a newly developed alignment for the forcemain discharge from the Meeks Lane Pump Station located along Meeks Lane near Echo Hollow Lane. This alternative provides a direct connection into the existing forcemain from the Marywood Pump Station which is ultimately conveyed to the Ghaner Road Pump Station.

As with the other alternatives, preliminary engineering supports the use of the Flygt NP 3301 pump model. A forcemain diameter of 8 inches will be required to maintain reasonable velocities under peak flow conditions.

It was again assumed that a new highway crossing would be constructed under North Atherton Street. This alternative will abandon Graysdale 2A and 2B, and the Marywood pump stations, and is expected to reduce overall construction impacts while still effectively conveying wastewater flows from the Meeks Lane Pump Station to the Valley Vista Interceptor via the existing Ghaner Road Pump Station infrastructure.

BLUEBERRY CROSSING ALTERNATIVE

Following the previous draft submission of this Special Study to the CRCOG PSE-TLU Committee and preliminary right-of-way discussions with the property owner of the land proposed for the Meeks Lane pump station location, the UAJA began developing an additional alternative pump station location. The proposed station would be located along Meeks Lane, near the Blueberry Crossing subdivision (south of the intersection between Meeks Lane and Briar Court).

Similar to the Meeks Lane Alternative C alignment, the forcemain alignment would generally follow Meeks Lane to Grays Woods Boulevard and then extend across the backlot along Scotia Road and cross Circleville Road. From there the alignment would follow an abandoned railroad grade towards Ghaner Drive, then extend along the backlot to Whisper Ridge Drive and around the small park. The forcemain would then discharge into new gravity sanitary sewer lines constructed north of the Lowe's to convey the wastewater flows to the Valley Vista Interceptor.

Based on preliminary engineering of the pump station, pump model Flygt NP 3301 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions. It was again assumed that a new highway crossing would be constructed under North Atherton Street.

NO ACTION ALTERNATIVE

The no action alternative represents a situation in which the UAJA does not construct a new strategically located pump station. While this alternative can be considered technically feasible, it is very undesirable. Currently, multiple pump stations convey wastewater to another pump station immediately downstream, and with continued growth and development in West Patton Township, this issue will be exacerbated. This pumping configuration poses high environmental risks in the event of failure of one or more of the downstream pump stations.

Evaluation of Alternatives

In order to evaluate the economic impacts of the pump station alternative, conceptual-level cost estimates were prepared. These costs include estimated capital construction costs, project costs, and annual operation and maintenance (O&M) costs. No detailed field survey or investigations were conducted as part of this Special Study to confirm the accuracy of record drawings, to confirm the location of below grade utilities, or to confirm the site subsurface conditions.

Table 6.1: Summary of Pump Station Alternative Costs and Present Worth Analysis

Alternative	Capital Cost	Annual O&M Cost	Annual O&M Present Worth	Total Present Worth
Cedar Cliff Alternative	\$ 9,836,000	\$ 49,115	\$ 765,666	\$ 10,602,000
Meeks Lane Alternative A	\$ 7,920,000			\$ 8,686,000
Meeks Lane Alternative B	\$ 7,742,000			\$ 8,508,000
Meeks Lane Alternative C	\$ 7,590,000			\$ 8,356,000
Meeks Lane Alternative D	\$ 3,448,000			\$ 4,214,000
Blueberry Crossing Alternative	\$ 7,907,000			\$ 8,673,000

The Meeks Lane and Blueberry Crossing Alternatives were also evaluated for consistency with respect to the following:

- > Clean Streams Law
- > Clean Water Act
- > Corrective Action Plans/Annual Reports
- > Centre Region Comprehensive Plan
- > Anti-degradation Requirements
- > State Water Plans
- > PA Prime Agricultural Land Policy
- > County Stormwater Plans
- > Wetland Protection
- > Source Water Protection
- > Protection of rare, endangered, or threatened species
- > Historical and archaeological resource protection

Recommended Alternative

The Meeks Lane Alternative represents the lowest current project costs. However, following preliminary right-of-way discussions with the property owner of the land proposed for the Meeks Lane pump station location near the Spring Hollow Farm, the UAJA desires a pump station location that provides a less difficult path to easement acquisition.

Therefore, the UAJA recommends the implementation of the Meeks Lane Alternative D, which would eliminate three existing pump stations as well as provide a safer wastewater conveyance method to support future growth and development in the Centre Region. The UAJA will own and operate the proposed pump station and its associated facilities. The UAJA will be responsible for complying with all applicable water quality standards and effluent limitations. The following table presents a general project implementation schedule.

Table 8.1: Implementation Schedule

Milestone	Date
Submitted Special Study to Municipalities/Planning Commissions	November 2021
Began Public Comment Period (30-days)	November 2021
Received Municipal/Planning Comments, Conclude Public Comment Period	December 2021
Re-Submit Special Study to Municipalities/Planning Commissions	October 2025
Begin Public Comment Period (30-day)	October 2025
Receive Municipal/Planning Comments, Conclude Public Comment Period	November 2025
Adoption by Municipalities and CRCOG (General Forum Presentation)	November 2025
Begin Preliminary Design	November 2025
Submission of Special Study to PA DEP (120-day Review)	December 2025
Receive DEP Approval of Special Study/WQM/NPDES *	April 2026
Complete Final Design/Bidding	May 2026
Begin Construction	June 2026
Project Completion (12 Months of Construction) **	July 2027

*Assumes concurrent or sequential submission of Special Study and permit applications with DEP approval of Special Study and WQM Permit within 120 days.

**Minimum construction period required for UAJA construction crew.

1 PREVIOUS WASTEWATER PLANNING

1.1 Summary of Previous Act 537 Plans and Related Documents

Over the past 30 years, a substantial amount of sewage facility planning work has been completed in the Centre Region; however, a comprehensive update has not been completed since 2006. In 1987, the UAJA and the Centre Region municipalities began working cooperatively with the PA Department of Environmental Resources (DER) to address concerns that the UAJA's SCPCF was approaching its (then) 3.84 MGD capacity.

In 1990, DER officially approved the Centre Region Act 537 Sewage Facilities Plan, which approved the expansion of the UAJA's SCPCF to 6.0 MGD, with condition that a study be completed to select the preferred alternative to provide sewage treatment capacity for the Centre Region's projected needs beyond 6.0 MGD. Additionally, in 1991, the PA Department of Environmental Protection (DEP) issued a National Pollutant Discharge Elimination System (NPDES) permit to the UAJA that imposed effluent temperature limits on the discharge to Spring Creek. While a 316(a) temperature study for Spring Creek was conducted, the UAJA and the Centre Region municipalities proceeded with efforts to complete the wastewater alternatives study.

The wastewater alternatives study was published in 1996, identifying and evaluating 13 alternatives to meet the future needs of the community, and was reviewed by the Centre Region's municipal planning commissions and elected officials. Then, in 1997, an additional report was published describing the beneficial reuse alternative, bringing the total number of alternatives evaluated by the Centre Region to 14. The 316(a) temperature study was completed in 1998, and concluded that a variance on temperature limits should be granted for discharge flows up to 6.0 MGD. Following the municipal review process, the Centre Region Council of Governments (COG) General Forum endorsed the beneficial reuse alternative.

In 1999, the Centre Region municipalities prepared a revision to the Centre Region Act 537 Sewage Facilities Plan recommending the abandonment of the Ferguson Township Authority Plant. The plan revision recommended that the flow from the Pine Grove Mills area be piped to the UAJA system for treatment. To ensure consistency with the Centre Region Comprehensive Plan, the line conveying the flow from the Pine Grove Mills area to the UAJA line along West College Avenue was designated as a conveyance line, and it was indicated at that time that no connections would be permitted to this conveyance line. The plan revision was subsequently adopted by all six Centre Region municipalities, and the Ferguson Township Authority Plant was abandoned and demolished, transferring the wastewater from the Pine Grove Mills area to the UAJA SCPCF for treatment.

The 2000 Centre Region Act 537 Sewage Facilities Plan Revision identified the disposal alternatives for up to 3.0 MGD of wastewater effluent from the SCPCF that could not be discharged to Spring Creek. The majority of the alternatives proposed to dispose of the effluent water outside the Spring Creek Watershed. However, one alternative, the Beneficial Reuse Project, was identified that utilizes the effluent water for watershed management rather than strictly disposal. In addition to providing a valuable resource to businesses and industries in the area, this alternative also reduces nitrogen concentrations to help meet Chesapeake Bay preservation requirements, and offsets environmental impacts of water withdrawal wells within the area.

In 2001, the hydraulic and organic capacity of the SCPCF was increased to 9.0 MGD and 22,500 lbs. BOD/day, respectively. Additionally, construction was initiated for the advanced water treatment facilities (microfiltration and reverse osmosis) and distribution line for the Beneficial Reuse Project (Phase 1).

A revision was made to the Sewer Service Area (SSA) near Pine Grove Mills in 2003. One area was added to the SSA, while another was removed to ensure that no increase in wastewater flow was generated by the plan revision. All six Centre Region municipalities adopted this revision.

The UAJA completed construction of Phase 1 for the Beneficial Reuse Project in 2005, with Phase 1A planned to begin the following year. Meanwhile, a draft update of the Centre Region Act 537 Sewage Facilities Plan was presented to the Centre Region COG.

The 2006 Centre Region Act 537 Sewage Facilities Plan Update established an updated Regional Growth Boundary (RGB) and Sewer Service Area (SSA). The RGB and SSA are used to identify areas of the community where public sewer service will be provided in the future by the UAJA. The 2006 Plan Update evaluated 26 areas requested for expansion, and ultimately identified five properties for addition to the RGB/SSA. A hydraulic model was created to evaluate the UAJA's collection and conveyance system and to identify interceptors or segments of interceptors having flow limitations. The adopted and approved 2006 Plan Update identified deficiencies within the UAJA's sewage collection and conveyance system and presented a schedule and estimated costs for upgrading overloaded segments.

The 2006 Plan Update also defined the reuse water distribution system to be implemented in three phases that were initially identified when the Beneficial Reuse Project was adopted in 2000. The 2006 Plan Update states that the water produced from the Beneficial Reuse Project will be reused in the community for industrial, agricultural, and irrigation purposes and that the ultimate goal is to move the water back to the headwaters of the community where it can be used to replenish headwater streams, springs, and groundwater resources.

Additionally, the 2006 Plan Update evaluated various topics such as the agreement between the UAJA and State College Borough for flow diversion, the proposal of a volumetric billing program, and the relative health of on-lot disposal systems in the Centre Region. A comprehensive, region-wide Sewage Management Plan, providing for regular pumping and routine inspection of all on-lot disposal systems in the community was implemented.

The 2009 Centre Region Act 537 Sewage Facilities Plan Amendment further defined the appropriate structural solutions for the previously identified sewage collection and conveyance deficiencies to address the implementation of vital interceptor projects. The hydraulic model that was generated as part of the 2006 Plan Update was recalculated using data collected through extensive field surveying during 2007. Through hydraulic modeling, it was determined that the majority of the Big Hollow Interceptor could not safely convey predicted future peak flows. The adopted and approved 2009 Plan Amendment ultimately recommended the construction of a diversion forcemain to the Big Hollow Interceptor.

Since the conclusion and adoption of the 2006 Plan Update and the 2009 Plan Amendment, the Centre Region has authorized several special studies to maintain a coordinated plan to guide future sewage facility decisions in the community.

The 2016 Special Study for the Pennsylvania State University (PSU) Water Reuse System addressed the PSU's reclaimed water system, including the location of existing lines as well as future demand.

The 2017 Update for the Extension of Beneficial Reuse Water (UAJA) Lines to Harris Township evaluated extending the UAJA's existing beneficial reuse water system into Harris Township to serve specific customers. Construction of the Beneficial Reuse Waterline Extension to Harris Township Project is complete.

The 2018 Special Study to Upgrade the PSU University Park Wastewater Treatment Plant (WWTP) identified the need to upgrade the existing WWTP to renovate and replace aged infrastructure, improve onsite safety, and improve the treatment and energy efficiency of the facility. The six

Centre Region municipalities adopted the 2018 Special Study following a public hearing in March 2018 at the COG General Forum meeting.

A Task Activity Report (TAR) for the 2020 Act 537 Sewage Facilities Plan Update: Special Study for the Scott Road Pump Station and Bristol Interceptor was submitted to the DEP on May 28, 2019, with subsequent approval received on June 11, 2019. The Special Study for the Scott Road Pump Station and Bristol Interceptor was presented to the Centre Region COG at the July 2020 General Forum meeting, and the six Centre Region municipalities adopted the Special Study in August 2020. Subsequently, the Special Study was submitted to the PA DEP for review and was approved on October 22, 2020. The Scott Road Pump Station and Forcemain Upgrade Project is currently under construction.

A Task Activity Report (TAR) for this 2021 Act 537 Sewage Facilities Plan Update: Special Study for the Meeks Lane Pump Station was authorized for submission to the DEP through the Centre Region approval process for Act 537 Plan Special Study Task Activity Reports. The TAR was submitted to the DEP on October 8, 2019 and was approved on October 16, 2019.

Numerous iterations of the plan were drafted between 2020 and 2022 giving consideration to various sewer flows and pump station/force main locations. Ultimately, the plan was never adopted by the Centre Region Council of Governments and its Municipalities. Therefore, the plan is now being revised again.

2 PHYSICAL AND DEMOGRAPHIC ANALYSIS

2.1 Description of Current Sewer Service Area

Since the mid-1970s, the Centre Region has implemented a series of policies that direct growth to areas where infrastructure exists to preserve prime agricultural lands, natural areas, and other sensitive environmental resources in the community. These growth management policies were used to establish the Regional Growth Boundary (RGB). In the early 1990s, the Centre Region Act 537 Sewage Facilities Plan was approved, which established the Centre Region's Sewer Service Area (SSA).

As part of the 2006 Plan Update, the RGB and the SSA were brought into alignment and currently represent a cohesive boundary. Five of the Centre Region's six municipalities have land area within the RGB/SSA, with the exception being Halfmoon Township. The RGB/SSA has had a significant influence on the location of development in the Centre Region because it is used to direct growth to where it is believed to be most appropriate, while preserving the rural character of areas outside of the boundary.

Exhibit 2.A in Appendix A shows the current overall RGB/SSA in reference to the municipal boundaries of the Centre Region.

2.2 Identification of Planning Area

Wastewater generated in the west Patton Township portion of the UAJA's collection system is conveyed through a series of consecutive pump stations, and ultimately to the Spring Creek Pollution Control Facility (SCPCF) for treatment. Planned land development projects within the area will result in the construction of at least three more pump stations, as illustrated schematically in Figure 2.1.

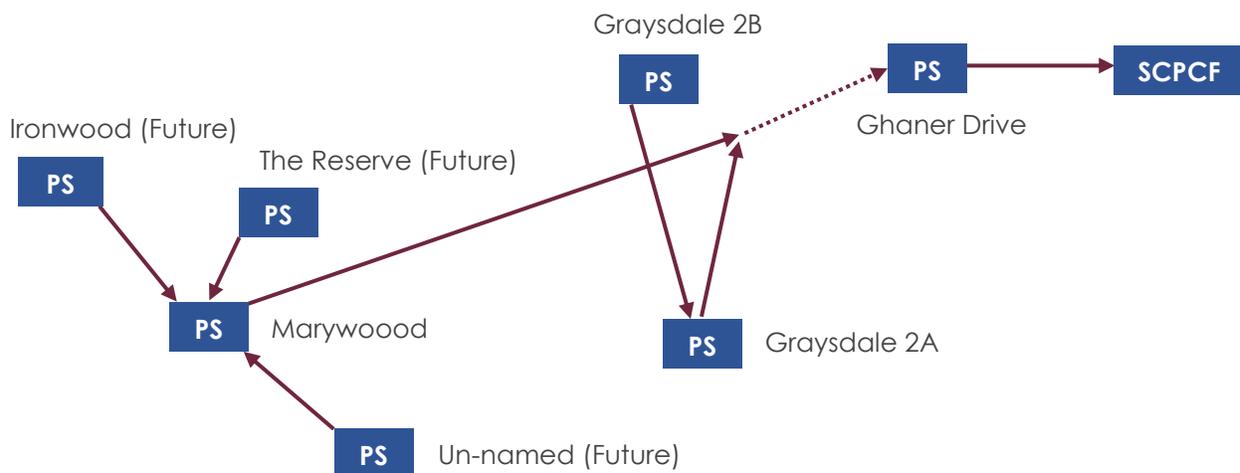


Figure 2.1: Schematic of West Patton Township Pump Stations (Existing and Planned)

Concern about the long-term reliability of the current and anticipated pump station layout, operation and maintenance costs, and simultaneous pumping issues, has prompted the UAJA to develop and evaluate predominately gravity-based alternatives with a main pump station for wastewater conveyance.

The major goal of this Special Study is to present an alternative conveyance method which generally consists of new gravity sewer interceptors and a single pump station, allowing for the elimination of three existing pump stations and three planned pump stations. Therefore, the planning area includes the portion of west Patton Township within the SSA, as shown on Exhibit 2.B in Appendix A.

Planning level discussions by Halfmoon Township and the CRPA at the time this study was initiated suggested the potential for an extension of the SSA to portions of Halfmoon Township, which could result in additional pump stations adjacent to the planning area beyond what is currently planned. While this study was being developed, the Halfmoon Township Board of Supervisors decided it is no longer interested in including capacity for a potential future expansion of the SSA into Halfmoon Township. Therefore, no portions of Halfmoon Township are included in the planning area.

Exhibit 2.C provides National Resources Conservation Service (NRCS) soil information including farmland classifications and Agricultural Security Areas within the project area.

Exhibit 2.D shows geologic formations. The majority of the project area lies within the Lower Member of the Gatesburg Formation.

Exhibit 2.E shows the topography of the project area in 20-foot contours. The Lidar (DCNR PAMAP Program) data was accessed through the Pennsylvania Spatial Data Access (PASDA).

The State College Borough Water Authority (SCBWA) serves the project area utilizing the following raw water sources:

- > Slab Cabin Run: 7.3 MGD (All Sources Filtered)
 - Shingletown Gap Reservoir – 2.00 MGD, Peak
 - Harter Well Field – 2.50 MGD, Peak
 - Thomas Well Field – 3.37 MGD, Peak
- > Nixon Well Field: 3.00 MGD
- > Kocher Well Field: Not to Exceed 25% of Total Demand
- > Chestnut Ridge Well Field: 1.01 MGD
- > Alexander Well Field: 4.70 MGD
- > Grays Woods Well Field: 3.88 MGD

The SCBWA water service area is shown on Exhibit 2.F, as well as the protection area for the relevant raw water sources in the project area. The data regarding the water service areas and source water protection areas was accessed through Centre County's GIS Department.

Waterways within the project area, as well as various ponds and wetlands, are shown on Exhibit 2.G. The data regarding locations of wetlands was accessed through the U.S. Fish and Wildlife Service National Wetlands Inventory.

3 EXISTING SEWAGE FACILITIES

3.1 Description of Current Wastewater Treatment Facilities

The UAJA owns and operates the Centre Region's primary wastewater treatment facility, the Spring Creek Pollution Control Facility (SCPCF), located partially in Benner Township and partially in College Township, Centre County, PA. Wastewater generated in five municipalities (Patton Township, Ferguson Township, College Township, Harris Township, and State College Borough) and a portion from the Pennsylvania State University is conveyed to the SCPCF through the collection and conveyance system consisting of gravity lines and pumping stations. In addition to wastewater, the facility accepts waste activated sludge from nearby treatment plants as well as septage.

The SCPCF has a design flow of 9.0 MGD and a 5-year annual average flow of approximately 5.3 MGD. The facility was originally built in 1969 and has been upgraded and expanded several times since then. The UAJA is permitted to discharge 6.0 MGD of treated wastewater effluent to Spring Creek. The Beneficial Reuse Project was implemented as a result of the 2000 Centre Region Act 537 Sewage Facilities Plan Revision which identified and evaluated the disposal alternatives for the remaining 3.0 MGD of wastewater effluent that cannot be discharged to Spring Creek. The UAJA can effectively treat influent wastewater to a level that exceeds all current permit requirements (NPDES Permit No. PA0026239). The SCPCF contains the following liquid and solids unit processes:

- > Liquid Process Train
 - Headworks Fine Screening, Flow Measurement and Grit Removal
 - Primary Clarification Rectangular Chain and Flight Clarifiers
 - Biological Treatment Biological Nutrient Removal (Aerobic and Anoxic Reactors)
 - Secondary Clarification Circular Rim-Feed Hydraulic Sludge Removal Clarifiers
 - Flow Conveyance Intermediate Submerged Flow Pump Station
 - Tertiary Treatment Denitrification Filters and Chemical Addition
 - Disinfection Ultraviolet Light Disinfection

- > Solids Process Train
 - Primary Sludge Conveyance Air Operated Diaphragm Pumps
 - Waste Sludge Conveyance Vertical Close-Coupled Centrifugal Pumps
 - Septage Receiving Screening and Sampling
 - Sludge Conditioning Sludge Holding and Polymer Addition
 - Sludge Dewatering Centrifugation
 - Sludge Treatment In-Vessel Composting

- > Beneficial Reuse Process Train
 - Source Water Secondary Clarifier Effluent
 - Prescreening Wedge Wire Strainers
 - Water Conveyance Centrifugal Pumps
 - First Stage Filtration Microfiltration
 - Advanced Oxidation Ozone
 - Second Stage Filtration Reverse Osmosis
 - Chemical Treatment pH and Alkalinity Stabilization
 - Primary Disinfection Ultraviolet Light Disinfection

– Secondary Disinfection

Sodium Hypochlorite Disinfection



Figure 3.1: Aerial View of the SCPCF Illustrating the Facility Layout and Identification of Unit Processes (Image Source: Google Earth)

3.2 Description of Current Wastewater Collection and Conveyance Facilities

The UAJA owns and maintains a wastewater collection and conveyance system which is comprised of two major drainage basins, the Patton-Ferguson Township sub-basin which is lifted via the Big Hollow Pump Station located on Fox Hollow Road, and the College-Harris Township sub-basin which is lifted via the Main Pump Station located on Trout Road. Flows from State College Borough that are treated at the SCPCF are conveyed through the College-Harris drainage area.

The UAJA's collection and conveyance system currently consists of 18 lift stations (not including the Yards) ranging in capacity from 0.1 MGD up to 22.3 MGD, approximately 5,650 manholes, and approximately 261 miles of mainline sewer ranging in size from 8 inch diameter up to 48 inch diameter with various materials. The UAJA maintains a sewer-cleaning machine, portable flow meters, and TV inspection equipment. As a result, the collection and conveyance system is monitored, cleaned and repaired on a regular basis. In addition, the UAJA staff regularly performs manhole inspections, TV inspections and smoke/dye tests to identify problem sources. Consequently, the sewage facilities are in good condition.

WEST PATTON TOWNSHIP COLLECTION SYSTEM

The UAJA's collection and conveyance system serves several developments in west Patton Township. This area is primarily comprised of residential equivalent dwelling units (EDUs). Non-residential EDUs in the area include the Gray's Woods Elementary School, Good Shepherd Catholic Church, and Geisinger. Exhibit 3.A in Appendix A illustrates the UAJA's existing major wastewater facilities in the project area.

Wastewater generated from the Grays Pointe, Brynwood, and Marywood neighborhoods and the Grays Woods Elementary School flows by gravity through a series of PVC sanitary sewer lines to the Marywood Pump Station, which has a design capacity of 146 gallons per minute (gpm). The UAJA's 2020 Chapter 94 Report indicated that the Marywood Pump Station currently serves 229 EDUs. Wastewater is pumped from Marywood to a gravity connection point located within the Graysdale neighborhood near Cherrywood Road.

Wastewater generated from the western portion of the Graysdale neighborhood flows by gravity through a series of PVC sanitary sewer lines to the Graysdale 2B Pump Station, which has a design capacity of 76 gpm and currently serves 87 EDUs. Wastewater is pumped from Graysdale 2B to a gravity connection point near Pin Oak Road, then flows by gravity to the Graysdale 2A Pump Station. Wastewater generated from the eastern portion of the Graysdale neighborhood also flows by gravity to the Graysdale 2A Pump Station, which has a design capacity of 76 gpm and currently serves a total of 122 EDUs.

Wastewater generated from the northern portion of the Graysdale neighborhood and the Good Shepherd Catholic Church flows by gravity to the Ghaner Road Pump Station, which has a design capacity of 440 gpm and currently serves a total of 505 EDUs. The Ghaner Road Pump Station also serves residences located in the western portion of the Valley Vista Park Subdivision, as well as Geisinger and other various commercial connections located along Grays Woods Boulevard.

DOWNSTREAM WASTEWATER CONVEYANCE

Exhibit 3.B in Appendix A shows the overall flow path from west Patton Township to the UAJA's wastewater treatment plant. The Ghaner Road Pump Station discharges wastewater to the gravity collection system of the Valley Vista Park Subdivision at manhole VVP-10/2. Wastewater then flows through a series of 8-inch sanitary sewer lines to the intersection of Valley Vista Drive and North Atherton Street. Gravity flow continues northeast through the 18-inch diameter Valley Vista Interceptor to the West Patton Interceptor, then to the State College Bypass Interceptor which discharges to the Big Hollow Interceptor.

The Big Hollow Trunk South is a 30-inch diameter interceptor that generally follows the alignment of Big Hollow Road to the Big Hollow Pump Station, which is located along Fox Hollow Road near I-99. The Big Hollow Pump Station currently discharges wastewater to the Big Hollow Trunk North at manhole BHT-61 on the opposite side of I-99. The Big Hollow Trunk North is a 36-inch diameter interceptor that generally follows the alignment of Big Hollow Road and the Arboretum to Spring Creek Canyon Trail, crossing under I-99 once more before wastewater is transitioned into the inverted siphon under Spring Creek. The inverted siphon is the final conveyance segment before wastewater reaches the UAJA's headworks facility at the SCPCF.

3.3 Estimates of Wastewater Flows from Existing Customers

The major goal of this Special Study is to present an alternative conveyance method which generally consists of new gravity sewer interceptors and a single pump station, which would immediately collect and convey wastewater flows that are currently accommodated by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations.

In addition, construction of the gravity collection lines could extend sewer service to residents along Scotia Road. It was assumed that these existing residences, located near the Graysdale 2A Pump Station, would account for approximately 14 EDUs. Connection of these units would allow for the abandonment of on-lot septic systems in the project area.

The UAJA's 2020 Chapter 94 Wasteload Management Report identified a system-wide five-year average daily flow (ADF) of 132 gallons per day (gpd) per EDU. However, for planning purposes the UAJA typically utilizes a flow of 175 gpd/EDU. The following table presents a summary of

wastewater flows from existing customers in the planning area estimated using both the 5-year ADF and the planning value.

Table 3.1: Existing Wastewater Flows in Planning Area

Location	Current No. of EDUs	5-year ADF (gpd) ²	Planning ADF (gpd) ³
Marywood PS	229	30,228	40,075
Graysdale 2B PS	87	11,484	15,225
Graysdale 2A PS ¹	35	4,620	6,125
Scotia Road	14	1,848	2,450
Total	365	48,180	63,875

¹The Graysdale 2A Pump Station receives wastewater flow from the Graysdale 2B Pump Station; therefore, the EDUs contributing flow to the Graysdale 2B Pump Station were excluded from the Current No. of EDUs at the Graysdale 2A Pump Station, in order to avoid duplicate flow estimations.

²Gallons Per Day; Calculated by multiplying the number of EDUs by 132 gpd/EDU.

³Gallons Per Day; Calculated by multiplying the number of EDUs by 175 gpd/EDU.

4 FUTURE GROWTH AND DEVELOPMENT

4.1 Summary of Municipal and County Planning Documents

ZONING DISTRICTS AND LAND USE PLANS

Exhibit 4.A in Appendix A shows the various zoning districts within the project area. This map was created using shapefile data accessed through the Centre County GIS Open Data Website, which was updated March 18, 2020. The lands which will be served by this project are currently zoned for residential, planned community, and agriculture.

Exhibit 4.B in Appendix A shows the existing county level land use classifications within the project area. This map was created using shapefile data accessed through the Centre County GIS Open Data Website, which was updated March 18, 2020.

FLOODPLAIN AND STORMWATER MANAGEMENT

§147 of the Patton Township Municipal Code provides standards for stormwater management. Earth disturbance within the project area will need to comply with the Township's stormwater management requirements.

COUNTY AND REGIONAL PLANS

Long range comprehensive land use planning for Patton Township is provided in the Centre Region Comprehensive Plan, which is a multi-municipal plan as defined by Section 107 of the Pennsylvania Municipalities Planning Code. This plan was most recently updated and adopted by the six Centre Region municipalities in November 2013.

The Centre Region Comprehensive Plan provides an overview of long-range planning goals for the Centre Region's municipalities, including where most of the future growth should be provided for. The plan includes a regional growth boundary (RGB), which identifies where urban densities will be supported through appropriate zoning, infrastructure, and public services, including public sewer. The RGB is coterminous with the Centre Region Act 537 Plan's Sewer Service Area (SSA). The Centre Region Comprehensive Plan includes numerous policies to ensure the logical provision and extension of public sewer service, and to ensure that adequate wastewater conveyance and treatment is available for future growth within the RGB/SSA.

The Centre County Comprehensive Plan is a guiding document for land use and development regulations. Phase 1 was completed in 2003, although the County is continuously identifying implementation strategies which are published as updates. The Centre County Comprehensive Plan is generally consistent with the policies contained in the Centre Region Comprehensive Plan.

4.2 Evaluation of Potential Future Connections

WEST PATTON TOWNSHIP

The number of future connections in the project area (the portion of West Patton Township within the SSA) was projected based on available land development plans and on information presented in the Centre Region Planning Agency's (CRPA) 2017 Regional Development Capacity (REDCAP) Report, which is an analysis of the potential development capacity within the RGB/SSA.

The CRPA utilized the most recent tax parcel data for the Centre Region to develop an updated list of vacant and underutilized properties. Some properties were assumed unlikely to ever be developed and therefore were removed from the list; these included:

- > Parks, open space, or other areas specifically designated for recreational use
- > Stormwater basins

- > Cemeteries
- > Undeveloped lots adjacent to developed lots under the same ownership that are actively maintained – these lots are often being utilized as lawn areas for the adjacent property, and overall do not substantially influence dwelling unit counts of sewage flows
- > Parcels mostly or entirely within wetlands, floodplains, or containing steep slopes of 25% or greater

The CRPA then classified each property from the vacant land inventory into one of three categories: properties with approved development plans, properties with proposed development plans, and properties with no development plans. Exhibit 4.C in Appendix A shows the properties within the project area which were included in the REDCAP Report's vacant land inventory.

Several of the properties identified as vacant have proposed and/or approved development plans, such as the Grays Woods Planned Community and the Reserve. A total of 79 EDUs are currently planned for The Reserve development. Based on review of the Grays Woods Master Plan Major Amendment No. 5, the remaining buildout of this development includes Phases 4 through 7, which represent a total of 1,170 EDUs. However, in 2019 and 2020, 62 EDUs of Phase 6 were constructed and connected to the UAJA's system; and were included in the existing EDUs tributary to the Marywood Pump Station for this Special Study.

The REDCAP Report identified 3 individual lots within previously developed phases of the Grays Woods Planned Community that are currently unsold, representing an additional 3 EDUs. One of the Church Use parcels located near the Graysdale 2B Pump Station was connected in 2020; so, an additional 1 EDU is assumed for the remaining parcel. Therefore, the remaining buildout for the Grays Woods Planned Community is 1,112 EDUs.

An additional 8 parcels were identified as vacant lands, all zoned for residential use. Six of these parcels (four along Piper Ln, one within the Grays Woods Park area, and one near the intersection of Meeks Ln and Grays Woods Blvd) are small lots which are assumed to contribute 1 EDU each, if developed.

Since there are no proposed or approved land development plans for the remaining two parcels, it was assumed that these may be subdivided into medium size lots of 2 EDUs per acre. The 6.29-acre lot located between Grays Woods Blvd and Scotia Rd would contribute approximately 12 EDUs based on this methodology, and the 35.5-acre lot located along Piper Ln north of the Marywood Neighborhood represents an additional 71 EDUs.

Future development in the West Patton Township portion of the project area is projected to contribute wastewater from approximately 1,280 EDUs to the UAJA's collection and conveyance system, as summarized in the following table.

Table 4.1: Future Wastewater Flows in West Patton Township

Location	Future No. of EDUs	Planning ADF (gpd) ¹
Grays Woods Remaining Buildout	1,112	194,600
The Reserve	79	13,825
Small Residential Lots	6	1,050
Large Lots, Potential Subdivisions	83	14,525
Total	1,280	224,000

¹Gallons Per Day; Calculated by multiplying the number of EDUs by 175 gpd/EDU.

5 ALTERNATIVES FOR WASTEWATER CONVEYANCE

5.1 Summary of Conveyance Alternatives Considered

The alternatives considered for this Special Study include the implementation of the previously described conveyance method, i.e., new gravity sewer interceptors and a single pump station to collect and convey wastewater flows that are currently accommodated by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations; and the no-action alternative.

Multiple pump station locations and sewer alignments were considered, including the Cedar Cliff Alternative, the Meeks Lane Alternative, and the Blueberry Crossing Alternative which are described in the following sections. Another alignment was preliminarily considered which crossed the Haugh Family Preserve in Patton Township but was abandoned due to the exceptionally preservative nature of this Open Space and Recreation Area.

Current and future estimated wastewater flows in the project area are summarized in the following table. A peaking factor of 2.0 was used to calculate the maximum monthly average flow (MMAF). The peak instantaneous flow (PIF) was derived assuming a peaking factor of 3.5 (PIF to ADF).

Table 5.1: Current and Projected Wastewater Flows in West Patton Township

EDU Classification	No. of EDUs	ADF (gpd) ¹	MMAF (gpd) ²	PIF (gpm) ³
Existing Connections	365	63,875	127,750	155
Projected within SSA	1,280	224,000	448,000	544
Total	1,645	287,875	575,750	700

¹Gallons Per Day; Calculated by multiplying the number of EDUs by 175 gpd/EDU.

²Gallons Per Day; Calculated by multiplying the ADF by a peaking factor of 2.0.

³Gallons Per Minute; Calculated by multiplying the ADF by a peaking factor of 3.5 and dividing by the unit conversion of 1,440 minutes per day.

As previously mentioned in Chapter 2, planning level discussions by Halfmoon Township and the CRPA at the time this study was initiated suggesting the potential for an extension of the SSA to portions of Halfmoon Township, which could result in additional pump stations adjacent to the planning area beyond what is currently planned. While this study was being developed, the Halfmoon Township Board of Supervisors decided it is no longer interested in including capacity for a potential future expansion of the SSA into Halfmoon Township.

A draft of this Special Study was provided to the Centre Region Council of Governments (CRCOG) Public Services and Environmental/ Transportation and Land Use Joint Committee (PSE-TLU) on December 3, 2021, which included alternatives with design flow projections for the potential future expansion into Halfmoon Township. The PSE-TLU recommended that the Special Study be revised such that the preliminary sizing of wastewater facilities does not include any capacity for potential future extension into Halfmoon Township, based on the most recent formal action by the Township to not allow public sewer. During its meeting on December 3, 2021, the Centre Regional Planning Commission also recommended that the Special Study be revised. Therefore, the alternatives that considered design flow projections to include the potential for future expansion into Halfmoon Township have been removed from the study and are attached as Appendix H for reference.

Multiple pumping configurations will be considered when the pump station is designed, e.g., submersible pump station, wet well/dry pit pump station, or series pumping. At this time, it is assumed that the new pump station would be constructed generally consisting of duplex submersible pumps within a concrete wet well, control panels and an emergency generator.

5.2 Cedar Cliff Alternative

A technical memorandum was completed in 2015 to evaluate a pump station site, designated as the Waddle Pump Station, and forcemain alignment and to provide the basic preliminary process design and physical sizing for the Cedar Cliff Alternative. The pump station would be located near the intersection of Michael Road and Stevenson Road (State Route 3028) in the Cedar Cliff neighborhood. The forcemain would generally follow the alignment of Michael Road and then extend to a discharge location along an existing unimproved roadway, where it would transition to a gravity system and flow into the Toftrees Interceptor. The technical memorandum concluded that the Cedar Cliff Alternative is technically feasible. It must be noted however, that residents in the area are highly opposed to this alignment.

The technical memorandum outlined design considerations such as estimations of flow projections within the existing SSA in West Patton Township and for potential future extension into Halfmoon Township. For this Special Study, the projections were updated based on more recent planning level data, as previously described in Chapter 4, and summarized in Table 5.1; and the portions for Halfmoon Township were removed.

Exhibit 5.A in Appendix A shows the preliminary layouts of the gravity interceptors that would convey the wastewater that is currently being conveyed by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations to the new Waddle Pump Station, as well as the forcemain alignment. Based on preliminary engineering of the pump station, pump model Flygt NP 3301 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions.

5.3 Meeks Lane Alternative A

A Basis of Design Report was completed in 2016 to evaluate a pump station site, designated as the Meeks Lane Pump Station, and forcemain alignment and to provide the basic preliminary process design and physical sizing for the Meeks Lane Alternative. The pump station would be located along Meeks Lane near the Spring Hollow Farm.

The forcemain alignment would generally follow Meeks Lane to Grays Woods Boulevard and then extend across the backlot along Scotia Road and cross Circleville Road. From there the alignment would follow an abandoned railroad grade towards Ghaner Drive.

For the Meeks Lane Alternative A, the forcemain would discharge into new gravity sanitary sewer lines near Valley Vista Drive that would be constructed to convey the wastewater flows to the Valley Vista Interceptor.

The Basis of Design Report outlined design considerations such as estimations of flow projections within the existing SSA in West Patton Township and for potential future extension into Halfmoon Township. For this Special Study, the projections were updated based on more recent planning level data, as previously described in Chapter 4, and summarized in Table 5.1; and the portions for Halfmoon Township were removed.

Exhibit 5.B in Appendix A shows the preliminary layouts of the gravity interceptors that would convey the wastewater that is currently being conveyed by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations and from the Grays Woods remaining buildout area to the new Meeks Lane Pump Station, as well as the forcemain alignment. Based on preliminary engineering of the pump station, pump model Flygt NP 3301 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions.

The existing 8-inch sanitary sewer lines along Valley Vista Drive would become under-sized for handling the additional wastewater flows designed for the Meeks Lane Pump Station. Although

the sanitary sewer segment crossing North Atherton Street is currently 12-inch diameter, it was assumed for this Special Study that a new highway crossing would be constructed. Therefore, to accommodate the Meeks Lane Alternative A, the section of gravity sewer from MH 'SZM-3/1' TO MH 'VVU' (approximately 1,200 l.f.) would need to be replaced to increase flow capacity.

5.4 Meeks Lane Alternative B

Due to the heavy traffic and limited space for construction along Valley Vista Road, where the Meeks Lane Alternative A would require significant sanitary sewer replacement, an alternative alignment for forcemain discharge and conveyance to the Valley Vista Interceptor was more recently developed.

The Meeks Lane Alternative B is generally consistent with the previously described alternative, though the forcemain would extend along the existing walking path located between Ghaner Drive and Whisper Ridge Drive. The forcemain would then discharge into new gravity sanitary sewer lines constructed north of the Lowe's to convey the wastewater flows to the Valley Vista Interceptor.

Exhibit 5.C in Appendix A shows the preliminary layouts of the gravity interceptors that would convey the wastewater that is currently being conveyed by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations and from the Grays Woods remaining buildout area to the new Meeks Lane Pump Station, as well as the forcemain alignment. Based on preliminary engineering of the pump station, pump model Flygt NP 3301 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions.

The amount of existing sewer infrastructure that would need to be replaced would be significantly reduced with this alternative forcemain discharge alignment. It was again assumed that a new highway crossing would be constructed under North Atherton Street. Therefore, to accommodate the Meeks Lane Alternative B, the section of gravity sewer from MH 'M-119' to MH 'VVU' (approximately 500 l.f.) would need to be replaced to increase flow capacity.

5.5 Meeks Lane Alternative C

The Meeks Lane Alternative C is generally consistent with the previously described alternatives, though the forcemain would extend along the backlot to Whisper Ridge Drive and around the small park. The forcemain would then discharge into new gravity sanitary sewer lines constructed north of the Lowe's to convey the wastewater flows to the Valley Vista Interceptor.

Exhibit 5.D in Appendix A shows the preliminary layouts of the gravity interceptors that would convey the wastewater that is currently being conveyed by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations and from the Grays Woods remaining buildout area to the new Meeks Lane Pump Station, as well as the forcemain alignment. Based on preliminary engineering of the pump station, pump model Flygt NP 3301 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions.

It was again assumed that a new highway crossing would be constructed under North Atherton Street. Therefore, to accommodate the Meeks Lane Alternative C, the section of gravity sewer from MH 'M-119' to MH 'VVU' (approximately 500 l.f.) would need to be replaced to increase flow capacity.

Exhibit 5.F in Appendix A shows a preliminary pump station layout. The pumping configuration and precise location of the station may change during detailed engineering design based on equipment manufacturers' recommendations, owner preferences, and relevant permitting requirements.

5.6 Meeks Lane Alternative D

The Meeks Lane Alternative D was designed to keep the pump station within the current sewer service area. This alternative has a newly developed alignment for the forcemain discharge from the Meeks Lane Pump Station located along Meeks Lane near Echo Hollow Lane. This alternative provides a direct connection into the existing forcemain from the Marywood Pump Station which is ultimately conveyed to the Ghaner Road Pump Station

Exhibit 5.F in Appendix A shows the preliminary layouts of the gravity interceptors that would convey the wastewater that is currently being conveyed by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations, as well as the forcemain alignment. Based on preliminary engineering of the pump station, pump model Flygt NP 3301 was selected, and a forcemain diameter of 8 inches will be required to maintain reasonable velocities under peak flow conditions.

It was again assumed that a new highway crossing would be constructed under North Atherton Street.

This alternative will abandon Graysdale 2A and 2B, and the Marywood pump stations, and is expected to reduce overall construction impacts while still effectively conveying wastewater flows from the Meeks Lane Pump Station to the Valley Vista Interceptor via the existing Ghaner Road Pump Station infrastructure.

Exhibit 5.G in Appendix A shows a preliminary pump station layout. The pumping configuration and precise location of the station may change during detailed engineering design based on equipment manufacturers' recommendations, owner preferences, and relevant permitting requirements.

Meeks Lane Alternative D uses portions of the existing Marywood Pump Station Force Main that conveys flows to the Ghaner Drive Pump Station. Accordingly, the Ghaner Drive Station must remain in service and will become the flow limiting component of the downstream infrastructure. The new Meeks Lane Pump Station will be initially constructed and operated to not overwhelm the Ghaner Drive station. Available capacity within the Ghaner Drive Station (230 gpm) accounts for 974 EDUs at a rate of 132 gpd/EDU with a peaking factor of 2.0.

As build-out continues to occur, additional planning will be completed at a future time.

5.7 Blueberry Crossing Alternative

Following the previous draft submission of this Special Study to the CRCOG PSE-TLU Committee and preliminary right-of-way discussions with the property owner of the land proposed for the Meeks Lane pump station location, the UAJA began developing an additional alternative pump station location. The proposed station would be located along Meeks Lane, near the Blueberry Crossing subdivision (south of the intersection between Meeks Lane and Briar Court).

Similar to the Meeks Lane Alternative C alignment, the forcemain alignment would generally follow Meeks Lane to Grays Woods Boulevard and then extend across the backlot along Scotia Road and cross Circleville Road. From there the alignment would follow an abandoned railroad grade towards Ghaner Drive, then extend along the backlot to Whisper Ridge Drive and around the small park. The forcemain would then discharge into new gravity sanitary sewer lines constructed north of the Lowe's to convey the wastewater flows to the Valley Vista Interceptor.

Exhibit 5.H in Appendix A shows the preliminary layouts of the gravity interceptors that would convey the wastewater that is currently being conveyed by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations and from the Grays Woods remaining buildout area to the new pump station, as well as the forcemain alignment. Based on preliminary engineering of the pump station,

pump model Flygt NP 3301 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions.

It was again assumed that a new highway crossing would be constructed under North Atherton Street. Therefore, to accommodate the Blueberry Crossing Alternative, the section of gravity sewer from MH 'M-119' to MH 'VVU' (approximately 500 l.f.) would need to be replaced to increase flow capacity.

Exhibit 5.1 in Appendix A shows a preliminary pump station layout. The pumping configuration and precise location of the pump station may change during detailed engineering design based on equipment manufacturers' recommendations, owner preferences, and relevant permitting requirements.

5.8 Haugh Family Preserve Alternative

During alternative conceptualization, consideration was given to an alignment that would cross the Haugh Open Space, a 466-acre area in Patton Township. The Owners of the tract of land entered into an agreement with Patton Township, whereby they agreed to convey the premises to Patton Township upon certain terms and conditions, one of which being the execution of a conservation easement (Declaration of Conservation, December 30, 2005). The Conservation Easement provides protection of the property. Therefore, no further consideration was given to this alternative.

5.9 No Action Alternative

The no action alternative represents a situation in which the UAJA does not construct a new strategically located pump station. While this alternative can be considered technically feasible, it is very undesirable. Currently, multiple pump stations convey wastewater to another pump station immediately downstream, and with continued growth and development in West Patton Township, this issue will be exacerbated. This pumping configuration poses high environmental risks in the event of failure of one or more of the downstream pump stations.

6 EVALUATION OF ALTERNATIVES

6.1 Economic Analysis

To evaluate the economic impacts related to each of the alignment alternatives, conceptual-level cost estimates were prepared. Detailed estimates are included in Appendix B. These costs include estimated capital construction costs, project costs, and annual operation and maintenance (O&M) costs.

The estimated capital costs include quotes obtained from manufacturers as well as costs associated with labor and installation. The total project costs include the estimated construction costs as well as soft costs and a 15% contingency.

Soft costs, including engineering (design, permitting, and construction administration) and legal fees, were estimated based on a percentage (12%) of the estimated construction capital costs reflective of projected design complexity.

O&M cost estimates for the pump station include the cost of electricity consumed by the pump station as well as operating costs. O&M costs were developed using the following (where applicable):

- > Electricity: The UAJA's General Power Service cost averaged 6.10 cents per kWh from December 2018 to October 2019 at the existing Scott Road Pump Station. However, to capture the overall cost of electrical service including capacity, transmission and miscellaneous charges, an electrical cost of 9 cents per kWh was used.
 - This value was derived by calculating the average total monthly bill amount divided by the average monthly kWh used.
- > 105 horsepower consumption by the proposed submersible pumps/controls, running an average of 30 minutes per hour
 - for alternatives preliminarily sized for flow projections within the existing SSA only (Flygt NP 3301).
- > The pump station would require one system operator, approximately one hour per day performing general operation and maintenance.

No detailed field survey or investigations were conducted as part of this Special Study to confirm the accuracy of record drawings, to confirm the location of below grade utilities, or to confirm the site subsurface conditions. Additional analysis and evaluation of the proposed infrastructure will be required during design of the system to fully develop the scope and extent of the facilities required to complete the work and identify site conditions that may impact the cost and schedule of the project.

Table 6.1 presents a summary of the cost estimates developed for this Special Study.

Table 6.1: Summary of Pump Station Alternative Costs and Present Worth Analysis

Alternative	Capital Cost	Annual O&M Cost	Annual O&M Present Worth	Total Present Worth
Cedar Cliff Alternative	\$ 9,836,000	\$ 49,115	\$ 765,666	\$ 10,602,000
Meeks Lane Alternative A	\$ 7,920,000			\$ 8,686,000
Meeks Lane Alternative B	\$ 7,742,000			\$ 8,508,000
Meeks Lane Alternative C	\$ 7,590,000			\$ 8,356,000
Meeks Lane Alternative D	\$ 3,448,000			\$ 4,214,000
Blueberry Crossing Alternative	\$ 7,907,000			\$ 8,673,000

For comparison, the cost estimates presented in Appendix B and summarized in Table 6.1 are representative of the costs to construct the entirety of each alternative. However, construction of certain sections of the gravity conveyance alignment would ultimately be the responsibility of developers. The UAJA would generally be responsible for the construction of the pump station, forcemain, any required downstream conveyance improvements, as well as the abandonment of their existing pump stations.

For example, the portions of the Meeks Lane Alternative B that would be constructed (and funded) by developers include the gravity interceptor from the Grays Woods buildout area to the Meeks Lane Pump Station, and the gravity interceptor from the existing Marywood Pump Station to the Meeks Lane Pump Station (crossing the future Reserve development). Together, these two portions would include approximately 8,400 l.f. of sanitary sewer with approximately 26 manholes. The developer's portion of estimated total project costs then would be approximately \$1,675,000.

The remaining portion of estimated construction costs (approximately \$6,067,000) would be funded by the UAJA. The source of the funds for the implementation of the recommended alternative(s) will be the UAJA's bond redemption and improvement fund, which is composed of surplus revenues from prior years as well as accumulated tapping fees. There will be no direct rate increase specifically associated with the implementation of this project.

6.2 Consistency Evaluation

The Meeks Lane and Blueberry Crossing Alternatives identified in Chapter 5 were evaluated for consistency with respect to the following:

- > Clean Streams Law
- > Clean Water Act
- > Corrective Action Plans/Annual Reports
- > Comprehensive Plans
- > Anti-degradation Requirements
- > State Water Plans
- > PA Prime Agricultural Land Policy
- > County Stormwater Plans
- > Wetland Protection
- > Source Water Protection
- > Protection of rare, endangered, or threatened species
- > Historical and archaeological resource protection

CLEAN STREAMS LAW

The *Pennsylvania Clean Streams Law*, enacted in 1937, is the main law designed to preserve and improve the purity of the waters of the Commonwealth. The implementation of the pump station

alternative would involve detailed engineering design as well as proper permit authorizations prior to construction and as such, would not conflict with the *Clean Streams Law*.

CLEAN WATER ACT

The *Clean Water Act* is a U.S. federal law that regulates the discharge of pollutants into the nation's surface waters. The implementation of the pump station alternative would involve detailed engineering design as well as proper permit authorizations prior to construction and as such, would not conflict with the *Clean Water Act*.

CORRECTIVE ACTION PLANS OR ANNUAL REPORTS

The UAJA is not currently involved with any Corrective Action Plans relevant to this Special Study. The UAJA completes an annual report under *PA Code Chapter 94*, Municipal Wasteload Management. The purpose of these regulations is to provide adequate conveyance and treatment for future needs and to prevent sewage facilities from becoming overloaded, etc. The UAJA's *2020 Chapter 94 Report* was used in the development of the pump station alternative.

COMPREHENSIVE PLANS

The *Centre Region Comprehensive Plan* is a policy guide to help local officials envision the future development of the Centre Region and identifies areas in the community that are appropriate for residential and economic development, as well as those areas that should be preserved to maintain the area's high quality of life. Implementation of the pump station alternative aligns with many of the policies outlined in the *Centre Region Comprehensive Plan*.

ANTI-DEGRADATION REQUIREMENTS

Anti-degradation requirements as contained in *Chapters 93, 95 and 102* of the *PA Code* (relating to water quality standards, wastewater treatment requirements; and erosion and sediment control) will be considered during the detailed engineering design and best management practices will be implemented throughout construction of the recommended alternative.

STATE WATER PLANS

The *Pennsylvania State Water Plan* provides planning tools and guidance for those who make decisions that affect the Commonwealth's water resources. Centre County is located within the Lower Susquehanna Planning Region. Any conflicts with the *State Water Plan* would be alleviated through detailed engineering design of the recommended alternative.

PA PRIME AGRICULTURAL LAND POLICY

The *Pennsylvania Agricultural Land Preservation Policy* was developed to strengthen Pennsylvania's agricultural economy and protect prime farmland. Based on the alignments presented in this Special Study, implementation of the pump station alternative would not result in disturbance of lands designated as Agricultural Security Areas. However, all disturbed areas will be restored, and best management practices will be used during construction of the recommended alternative.

COUNTY STORMWATER PLANS

The implementation of the proposed alternative would not cause a significant increase in stormwater runoff. Disturbance related to the project construction will comply with the Townships' stormwater management requirements. NPDES permits are required for construction sites equal or larger than one acre. The UAJA would acquire all applicable permits before earthwork begins.

WETLAND PROTECTION

Spring Hollow Farm Pump Station Location:

The pump station site is bordered by two defined stream channels to the north and east with a northeast confluence; however, no flood mapping was found through the Federal Emergency Management Agency. According to the Department of Environmental Protection, the designated use for both streams is HQ-CWF (High Quality – Cold Water Fishes). In the absence of a FEMA determined floodway along the watercourses adjacent to the site, the floodway is considered to extend 50 feet landward from the top of stream bank. Based on the preliminary site layout, work activities will be within 50 feet of the top of stream bank. Therefore, a Chapter 105 Water Obstruction and Encroachment Permit, Joint Permit with the U.S. Army Corps of Engineers may be required.

Blueberry Crossing Pump Station Location:

The Blueberry Crossing pump station site is located just upstream from the Spring Hollow Farm pump station location; and as such is bordered by the same HQ-CWF stream. Therefore, a Chapter 105 Water Obstruction and Encroachment Permit, Joint Permit with the U.S. Army Corps of Engineers may be required (at least for the utility line crossing).

SOURCE WATER PROTECTION

Facilities involved with the pump station alternative, including the gravity sewer and forcemain alignments, are located within the service area of the State College Borough Water Authority. However, they are not located within the Source Water Protection Area. The UAJA, the State College Borough Water Authority, the College Township Water Authority, and the Centre Region Council of Governments have each signed the *Source Water Protection Agreement*, expressing joint commitment to protecting source waters.

PROTECTION OF RARE, ENDANGERED, OR THREATENED SPECIES

As the site-specific alternatives are developed and evaluated during detailed design, potential environmental limitations will be considered. However, initial assessments for the protection of rare, endangered, and threatened species were performed using the Pennsylvania Natural Diversity Inventory (PNDI). The final PNDI receipts are included in Appendix C.

April 13, 2020 PNDI Submission 708016

This submission included the preliminary gravity conveyance alignments from the UAJA's existing Graysdale 2B, Graysdale 2A and Marywood pump stations and the preliminary forcemain alignment. Based on the project boundaries submitted, further review of the project was necessary to resolve the potential impacts outlined in the following table.

Table 6.2: Potential Impacts Anticipated, Based on Pump Station Alternative Preliminary Layout

Agency	Scientific Name	Common Name	PA Current Status
PGC	<i>Podilymbus podiceps</i>	Pied-billed Grebe	Special Concern
DCNR ¹	<i>Scirpus ancistrochaetus</i>	Northeastern Bulrush	Endangered
	<i>Bouteloua curtipendula</i>	Tall Gramma	Threatened
	<i>Potamogeton oakesianus</i>	Oakes' Pondweed	Special Concern
	<i>Juncus debilis</i>	Weak Rush	Special Concern
	<i>Lithospermum canescens</i>	Hoary Puccoon	Special Concern
	<i>Cuscuta polygonorum</i>	Smartweed Dodder	Special Concern
	<i>Prunus alleghaniensis</i>	Alleghany Plum	Special Concern

	<i>Lupinus perennis</i>	Lupine	Special Concern
PFBC	Sensitive Species		Threatened
USFWS	No Known Impacts		

¹DCNR requested a botanical survey for the species listed to be conducted by a qualified botanist at the appropriate time of year (Letter dated April 20, 2020 in Appendix C).

Following the submission of the project description and more detailed layout information, the PA Game Commission (PGC) indicated that no impacts are anticipated (Letter dated May 20, 2020 in Appendix C).

In response to the PA Department of Conservation and Natural Resources (DCNR) request, the UAJA hired Wilson Ecological Consulting, LLC to complete a Botanical Survey (available upon request) during June through late August 2020, which concluded that no species of special concern were found on the project site. Therefore, DCNR determined that no impact is likely (Letter dated October 1, 2020 in Appendix C).

Following the submission of the project description and more detailed layout information, the PA Fish and Boat Commission (PFBC) indicated that if wetlands, vernal pools, open water areas, streams, or ponds or the area within 300 feet of these water features are to be disturbed from the project activity, a more thorough evaluation of the potential adverse impacts to the Eastern Spadefoot toad will need to be conducted.

In response, the UAJA hired Skelly and Loy, Inc. to complete a habitat assessment for the Meeks Lane alignments. Skelly and Loy, Inc. concluded from the evaluation that potential breeding habitat for the Eastern Spadefoot toad species does not appear to be present associated with the proposed project alignments. The PFBC then requested a field visit to confirm the site conditions (Letter dated November 3, 2021 in Appendix C). A field meeting was conducted on November 17, 2021 to review and consult on the proposed project area. The PFBC then provided a response including avoidance measures to be implemented during construction (Letter dated November 29, 2021 in Appendix C).

Due to its approaching 2-year duration date, this PNDI Receipt was updated on March 24, 2022 and the updated final receipt is included in Appendix C.

June 25, 2021 PNDI Submission 736969

This submission included the preliminary gravity conveyance alignment from the Gray's Woods Buildout area to Meeks Lane. Based on the project boundaries submitted, further review of the project was necessary to resolve the potential impacts outlined in the following table.

Table 6.3: Potential Impacts Anticipated, Based on Gray's Woods Buildout to Meeks Lane Conveyance Preliminary Layout

Agency	Scientific Name	Common Name	PA Current Status
PGC	No Known Impacts		
DCNR	Sensitive Species		Special Concern
PFBC ¹	<i>Scaphiopus holbrookii</i>	Eastern Spadefoot	Threatened
USFWS	No Known Impacts		

¹PFBC requested a habitat assessment for the species listed to be conducted by a qualified biologist (Letter dated July 7, 2021 in Appendix C).

Following the submission of the project description and more detailed layout information, the DCNR indicated that no impacts are anticipated (Letter dated June 30, 2021 in Appendix C).

In response to the PFBC request, the UAJA hired Skelly and Loy, Inc. to complete a habitat assessment for the Meeks Lane alignments. Skelly and Loy, Inc. concluded from the evaluation that potential breeding habitat for the Eastern Spadefoot toad species does not appear to be present associated with the proposed project alignments. The PFBC then requested a field visit to confirm the site conditions (Letter dated November 3, 2021 in Appendix C). A field meeting was conducted on November 17, 2021 to review and consult on the proposed project area. The PFBC then provided a response including avoidance measures to be implemented during construction (Letter dated November 29, 2021 in Appendix C).

July 13, 2021 PNDI Submission 737980

This submission included the preliminary forcemain alignment along the Ghaner Drive walking path and towards Valley Vista Drive. Based on the project boundaries submitted, further review of the project was necessary to resolve the potential impacts outlined in the following table.

Table 6.4: Potential Impacts Anticipated, Based on Ghaner Drive Forcemain Alternative Discharge Preliminary Layout

Agency	Scientific Name	Common Name	PA Current Status
PGC	No Known Impacts		
DCNR	Sensitive Species		Special Concern
PFBC	Sensitive Species		Threatened
USFWS	No Known Impacts		

Following the submission of the project description and more detailed layout information, the DCNR indicated that no impacts are anticipated (Letter dated July 20, 2021 in Appendix C).

Lacking a response from the PFBC for this PNDI submission specifically, the UAJA hired Skelly and Loy, Inc. to complete a habitat assessment for the Meeks Lane alignments. Skelly and Loy, Inc. concluded from the evaluation that potential breeding habitat for the Eastern Spadefoot toad species does not appear to be present associated with the proposed project alignments. The PFBC then requested a field visit to confirm the site conditions (Letter dated November 3, 2021 in Appendix C). A field meeting was conducted on November 17, 2021 to review and consult on the proposed project area. The PFBC then provided a response including avoidance measures to be implemented during construction (Letter dated November 29, 2021 in Appendix C).

January 6, 2022 PNDI Submission 749637

This submission included the preliminary forcemain alignment along the Whisper Ridge backlot. Based on the project boundaries submitted, further review of the project was necessary to resolve the potential impacts outlined in the following table.

Table 6.5: Potential Impacts Anticipated, Based on Whisper Ridge Forcemain Alternative Discharge Preliminary Layout

Agency	Scientific Name	Common Name	PA Current Status
PGC	No Known Impacts		
DCNR	No Known Impacts		

PFBC	Sensitive Species	Threatened
USFWS	No Known Impacts	

The PFBC has provided clearance for this segment of the overall alignment (Letter dated January 18, 2022 in Appendix C).

March 8, 2022 PNDI Submission 754188

This submission included the alternative Blueberry Crossing pump station location. Based on the project boundaries submitted, there are no known impacts to threatened and endangered species and/or special concern species and resources.

May 15, 2025 PNDI Submission 840756

This submission included the preliminary gravity conveyance alignments from the UAJA's existing Graysdale 2B, Graysdale 2A and Marywood pump stations and the preliminary forcemain alignment. Based on the project boundaries submitted, further review of the project was necessary to resolve the potential impacts outlined in the following table.

Table 6.6: Potential Impacts Anticipated, Based on Alternative Pump Station and Forcemain Alignment Preliminary Layout

Agency	Scientific Name	Common Name	PA Current Status
PGC	<i>Podilymbus podiceps</i>	Pied-billed Grebe	Special Concern
DCNR ¹	Sensitive Species		Special Concern
	<i>Erynnis persius</i>	Persius Duskywing	Special Concern
PFBC	Sensitive Species		Threatened
USFWS	<i>Myotis septentrionalis</i>	Northern Long-eared Bat	Endangered
	<i>Peromyotis subflavus</i>	Tricolored Bat	Proposed Endangered
	<i>Myotis sodalis</i>	Indiana Bat	Endangered
	<i>Danaus plexippus</i>	Monarch Butterfly	Proposed Threatened
	<i>Scirpus ancistrochaetus</i>	Northeastern Bulrush	Endangered

Following the submission of the project description and more detailed layout information, the PA Game Commission (PGC) indicated that no further review is necessary (Letter dated June 24, 2025 in Appendix C).

Following further review, the DCNR indicated that no impacts are anticipated (Letter dated May 21, 2025 in Appendix C).

Following the submission of the project description and more detailed layout information, the United States Fish and Wildlife Service (USFWS) indicated that no further review is necessary (Letter dated May 14, 2025 in Appendix C).

Following further review, PA Fish and Boat Commission (PFBC) indicated that no impacts are anticipated (Letter dated May 19, 2025 in Appendix C).

HISTORICAL AND ARCHAEOLOGICAL RESOURCE PROTECTION

Project Review Forms for the preliminary alignments were submitted to the State Historic Preservation Office (SHPO) for an initial determination of how the project may impact significant resources. The SHPO's determination indicated that the project would have no effect on historic properties or archaeological resources. The submissions and the SHPO's response letters are included in Appendix D.

7 INSTITUTIONAL EVALUATION

7.1 Analysis of Existing Wastewater Treatment Authorities and Entities

The Centre Region consists of six municipalities located in the south-central portion of Centre County, Pennsylvania: College, Ferguson, Halfmoon, Harris, and Patton Townships and State College Borough. The Centre Region Council of Governments (CRCOG) is a voluntary association of these six municipalities that was established in 1969 to provide cost effective and high quality public services, including but not limited to regional planning, parks and recreation, emergency management, and recycling programs. The CRCOG website provides the following description:

“The Centre Region COG is governed by the General Forum, which is comprised of 32 elected officials from the six municipalities. In addition, there is a non-voting representative from Penn State University and a liaison from the local school district. Surprisingly, despite its large size, most General Forum votes are unanimous. In large measure, this consensus flows from the COG's Committee system, which is designed to prepare recommendations to be developed on regional policy issues. Each municipality appoints one elected official to each of the COG Committees – Executive, Finance, Human Resources, Parks Capital, Public Safety, Public Services & Environmental, and Transportation & Land Use. Committee recommendations are presented in the form of a motion that provides a starting point for the General Forum's discussions. If the issue is particularly “politically” charged, the Committee may refer the issue to the individual municipal Boards/Councils for comment. Municipal responses are considered by the Committee in preparing its recommendation.”

The CRCOG has tasked the UAJA with providing sanitary sewer service to the Centre Region, which includes collection, conveyance, treatment, and construction and maintenance of all related facilities.

8 RECOMMENDED TECHNICAL & INSTITUTIONAL ALTERNATIVE

8.1 Identification and Justification of Selected Alternative

The alternatives identified in Chapter 5 are listed below with a brief evaluation summary.

- > Cedar Cliff Alternative:
 - Highest project costs
 - Opposed by property owners in the area
- > Meeks Lane Alternative A:
 - Extensive sewer construction in heavy traffic areas (Valley Vista/Atherton)
- > Meeks Lane Alternative B:
 - Significantly less sewer construction in heavy traffic areas
- > Meeks Lane Alternative C:
 - Greater ease of construction through Valley Vista Park Subdivision
- > Meeks Lane Alternative D:
 - Least difficulty in obtaining pump station property easement
 - Significantly less forcemain construction
 - Lowest project costs
- > Blueberry Crossing Alternative:
 - Alternative abandoned due to difficulty in easement acquisition
- > Haugh Family Preserve Alternative:
 - Abandoned due to exceptionally preservative nature of the area
- > No-Action Alternative:
 - Poses high environmental risks due to simultaneous pumping

The Meeks Lane Alternative D represents the lowest current project costs and provides a less difficult path to easement acquisition. The pump station location would be within the current sewer service area.

Therefore, the UAJA recommends the implementation of the Meeks Lane Alternative D, which would eliminate three existing pump stations and minimize the need to construct future additional pump stations in the West Patton Township area as well as provide a safer wastewater conveyance method to support future growth and development in the Centre Region.

The UAJA will own and operate the proposed pump station and its associated facilities. The UAJA will be responsible for complying with all applicable water quality standards and effluent limitations.

8.2 Preliminary Implementation Schedule

A general project schedule is outlined in the following table.

Table 8.1: Implementation Schedule

Milestone	Date
Submitted Special Study to Municipalities/Planning Commissions	November 2021
Began Public Comment Period (30-days)	November 2021
Received Municipal/Planning Comments, Conclude Public Comment Period	December 2021
Re-Submit Special Study to Municipalities/Planning Commissions	October 2025
Begin Public Comment Period (30-day)	October 2025
Receive Municipal/Planning Comments, Conclude Public Comment Period	November 2025
Adoption by Municipalities and CRCOG (General Forum Presentation)	November 2025
Begin Preliminary Design	November 2025
Submission of Special Study to PA DEP (120-day Review)	December 2025
Receive DEP Approval of Special Study/WQM/NPDES *	April 2026
Complete Final Design/Bidding	May 2026
Begin Construction	June 2026
Project Completion (12 Months of Construction) **	July 2027

*Assumes concurrent or sequential submission of Special Study and permit applications with DEP approval of Special Study and WQM Permit within 120 days.

**Minimum construction period required for UAJA construction crew.

APPENDIX

A

ACT 537 MAPPING
AND EXHIBITS

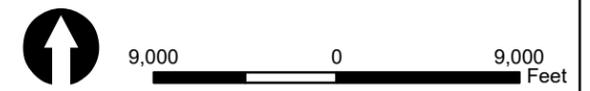
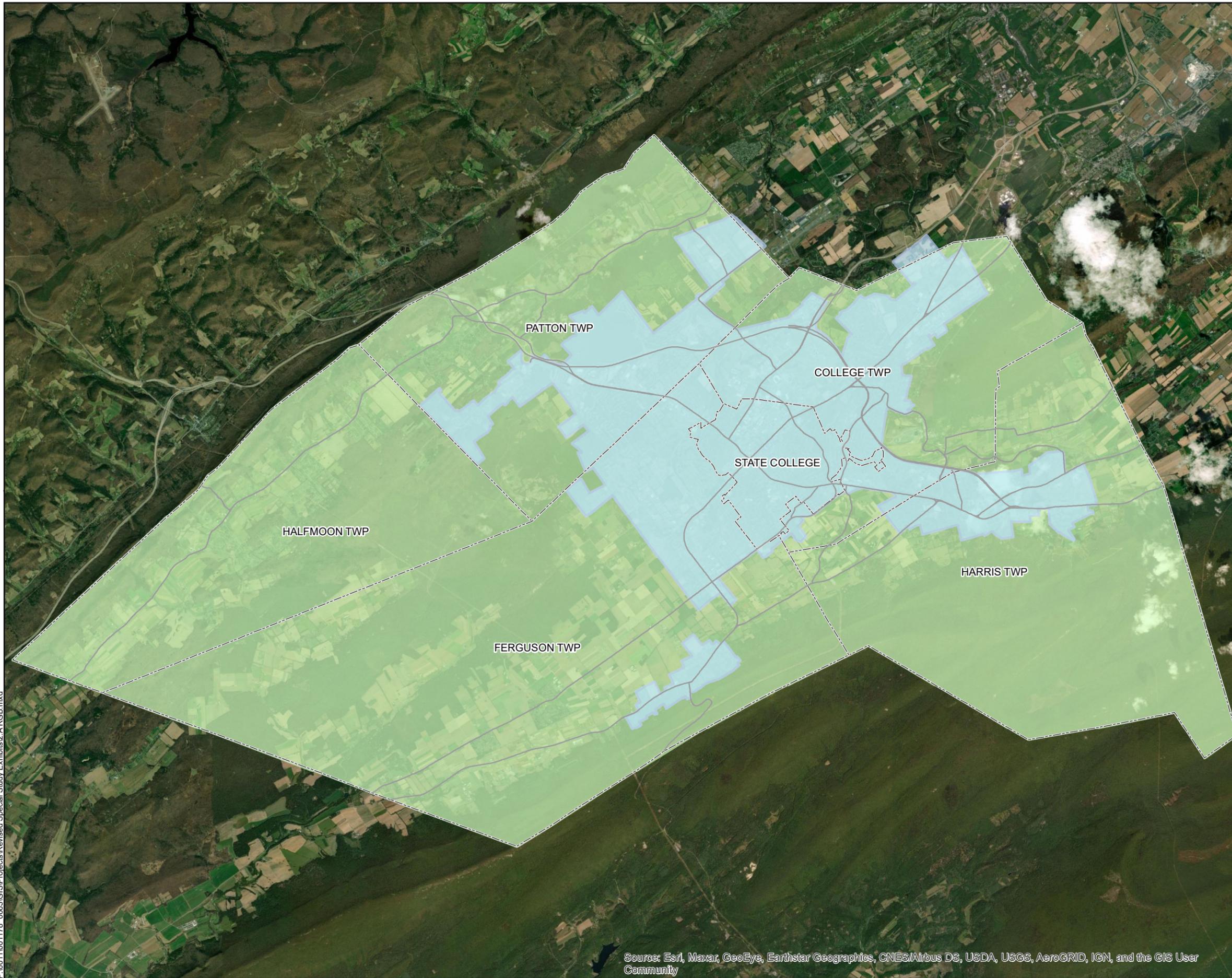


Exhibit 2.A Centre Region Municipalities and Growth Boundary

Centre County, Pennsylvania

Legend

-  Major Roads
-  Municipal Boundaries
-  Sewer Service Area
-  Centre Region Boundary



Mapping derived from data provided by CentreGIS.

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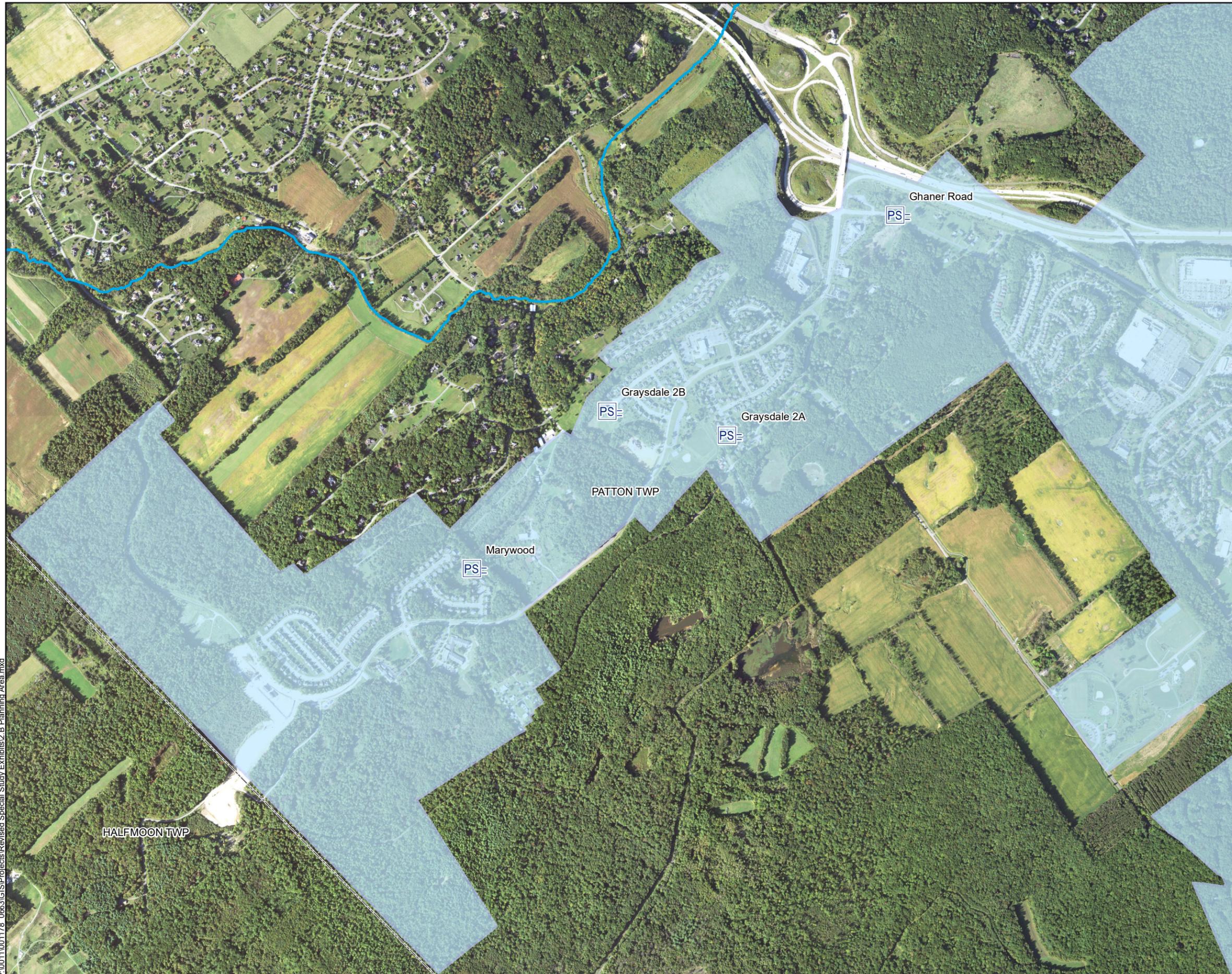
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Exhibit 2.B Special Study Planning Area

Patton Township,
Centre County, Pennsylvania

Legend

-  UAJA Pump Stations
-  Streams
-  Municipal Boundaries
-  Sewer Service Area



Mapping derived from data provided by CentreGIS & PASDA.

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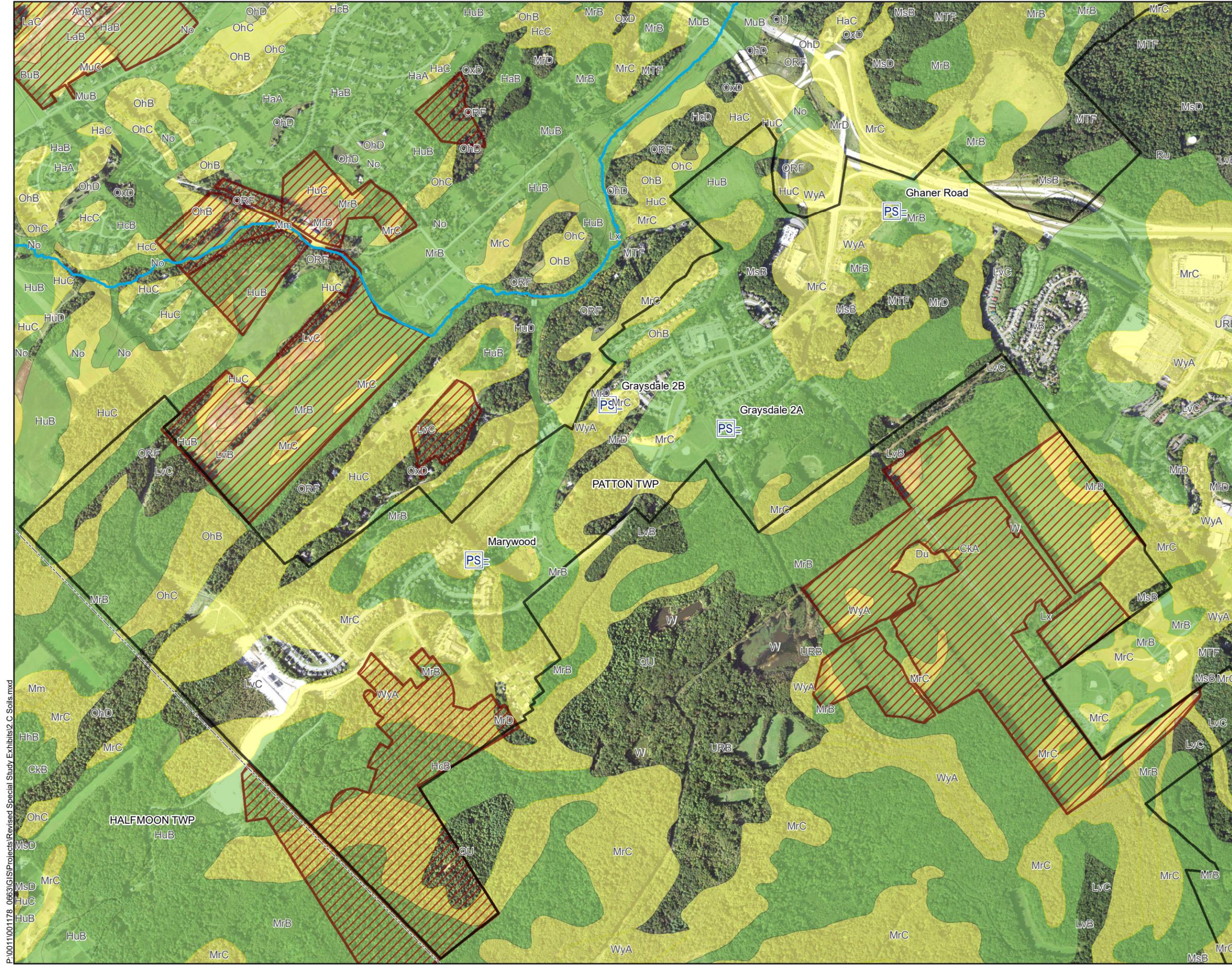
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Exhibit 2.C Soils and Prime Farmland

Patton Township,
Centre County, Pennsylvania

Legend

-  UAJA Pump Stations
 -  Municipal Boundaries
 -  Streams
 -  Sewer Service Area
 -  Agricultural Security Areas
- Soils, Farmland Classification**
-  Prime Farmland
 -  Statewide Importance
 -  Not Prime Farmland



Mapping derived from data provided by CentreGIS & PASDA.

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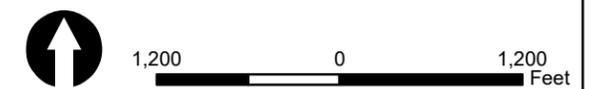
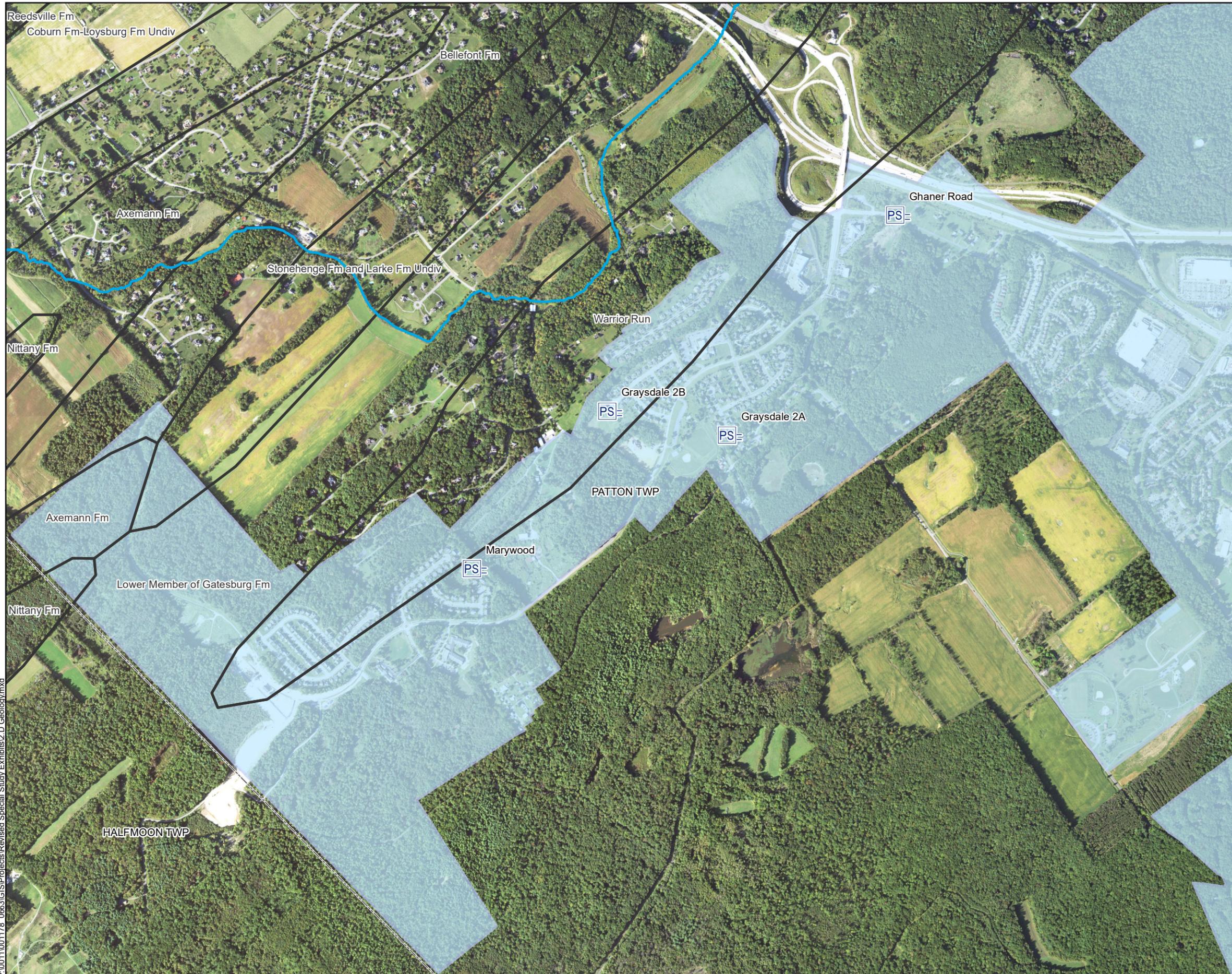
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Exhibit 2.D Geologic Features

Patton Township,
Centre County, Pennsylvania

Legend

-  UAJA Pump Stations
-  Streams
-  Municipal Boundaries
-  Sewer Service Area
-  Caves
-  Geology



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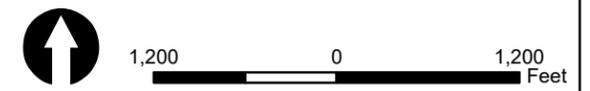
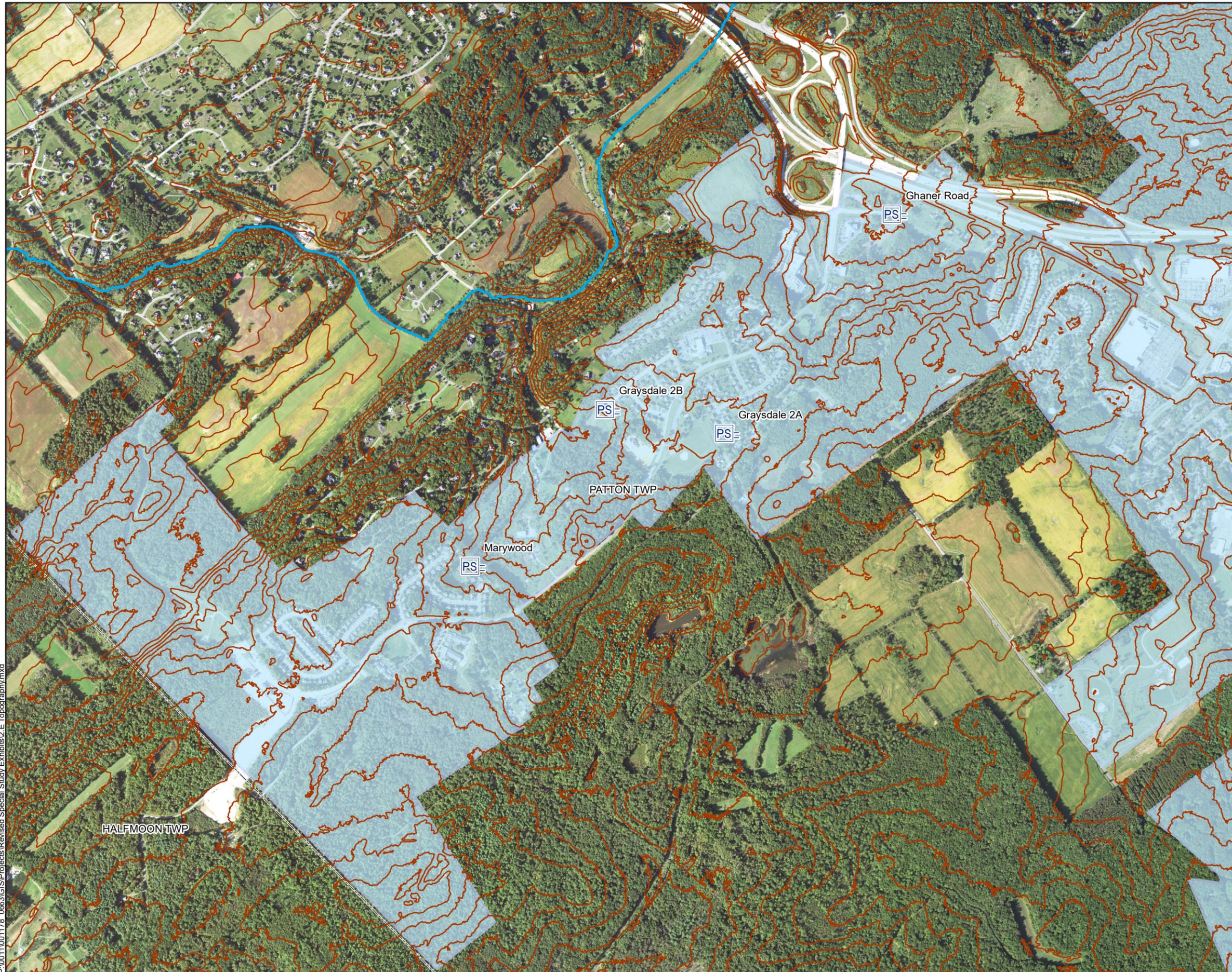
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Exhibit 2.E Topography

Patton Township,
Centre County, Pennsylvania

Legend

-  Streams
-  Municipal Boundaries
-  Sewer Service Area
-  UAJA Pump Stations
- Elevation**
-  20' Contours



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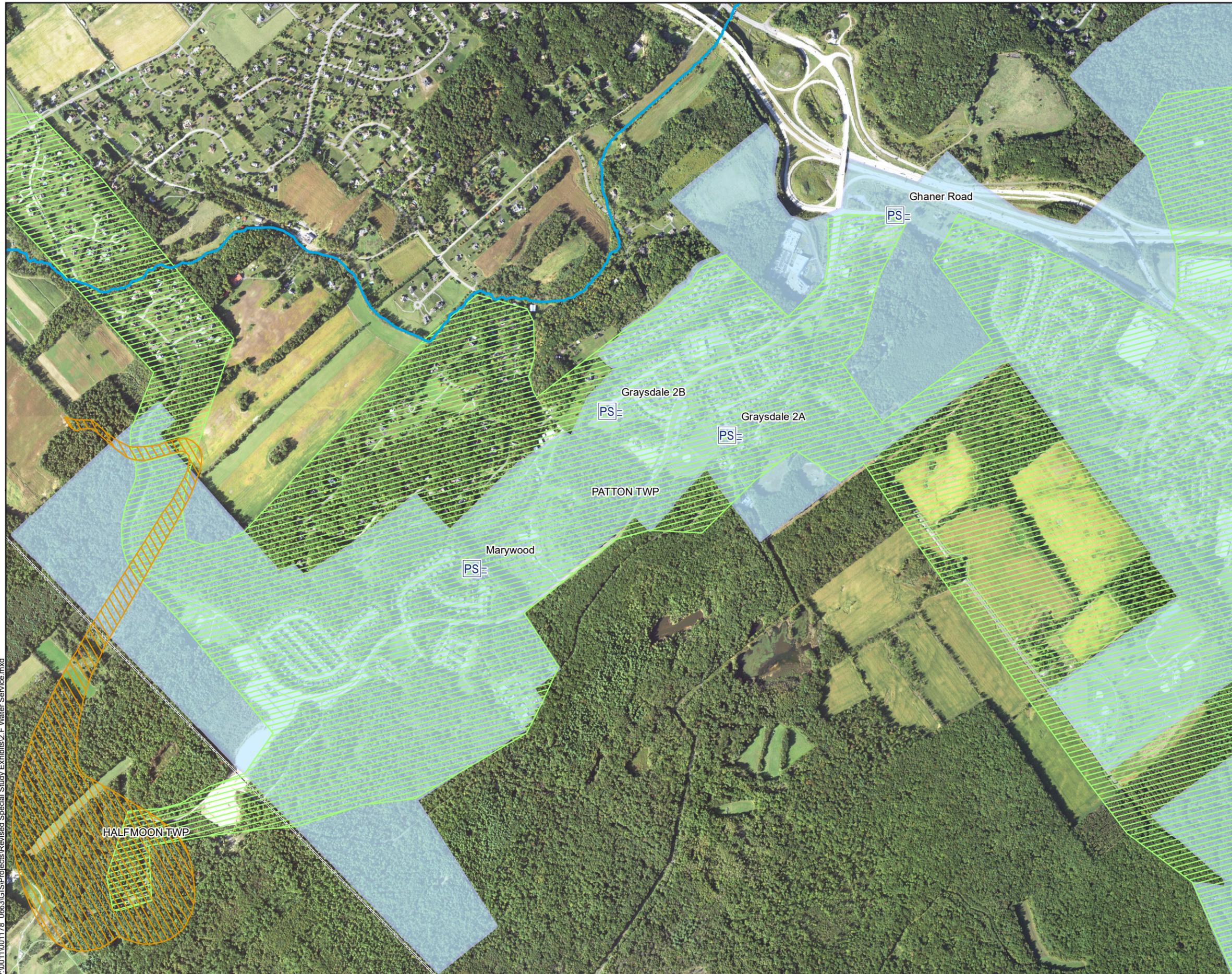
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Exhibit 2.F Potable Water Supplies

Patton Township,
Centre County, Pennsylvania

Legend

-  Streams
 -  Municipal Boundaries
 -  Sewer Service Area
 -  UAJA Pump Stations
 -  Source Water Protection Area
- Water Service Area**
-  State College Borough Water Authority



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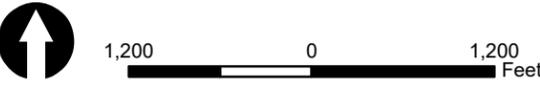
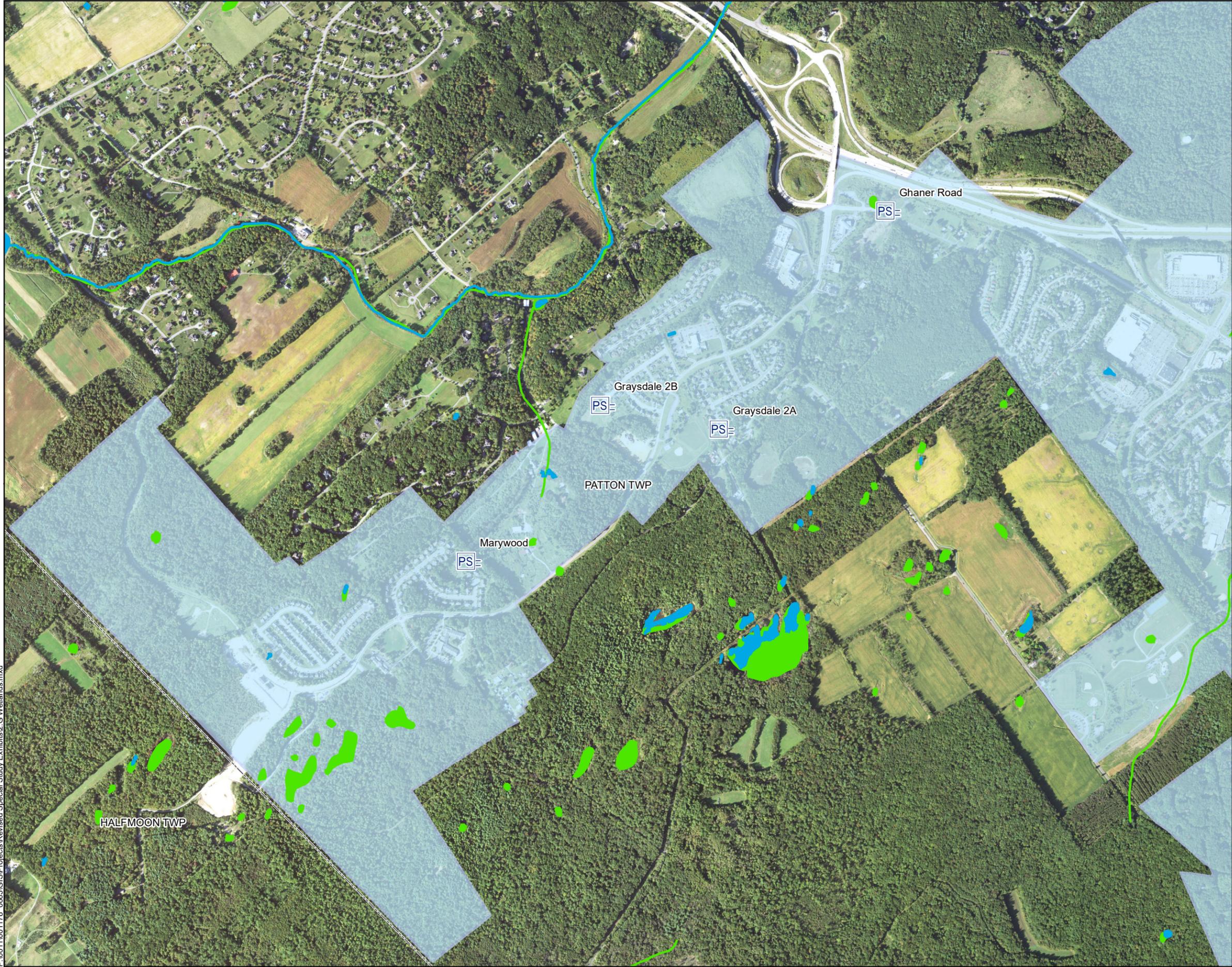
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Exhibit 2.G Wetlands

Patton Township,
Centre County, Pennsylvania

Legend

-  Municipal Boundaries
-  Sewer Service
-  UAJA Pump Stations
-  Streams
-  Ponds
-  Wetlands
-  Lakes



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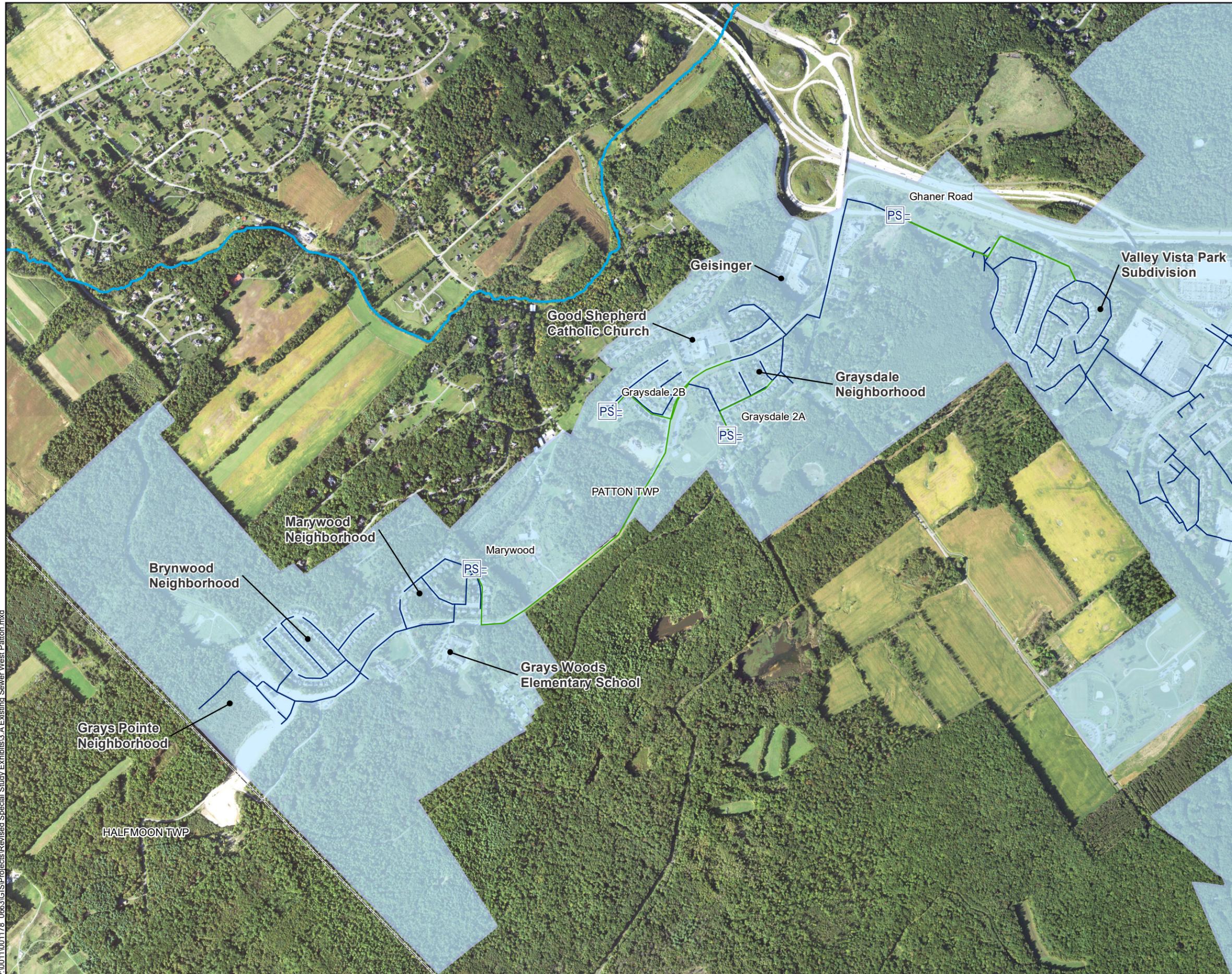
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Exhibit 3.A Existing Wastewater Conveyance Facilities

Patton Township,
Centre County, Pennsylvania

Legend

-  Streams
-  Municipal Boundaries
-  Sewer Service
-  UAJA Pump Stations
-  Existing Forcemain
-  Existing Gravity Sewer, Various Diameter



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Exhibit 3.B Existing Wastewater Conveyance Facilities Flow Path to UAJA SCPCF

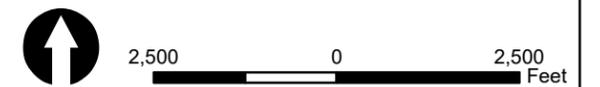
Patton Township,
Centre County, Pennsylvania

Legend

-  Streams
-  Municipal Boundaries
-  Sewer Service Area
-  UAJA Pump Stations
-  Existing Forcemain
-  Existing Gravity Sewer, Various Diameter

West Patton Twp Wastewater Flow Path

-  8-inch Diameter
-  12-inch Diameter
-  18-inch Diameter
-  30-inch Diameter
-  36-inch Diameter

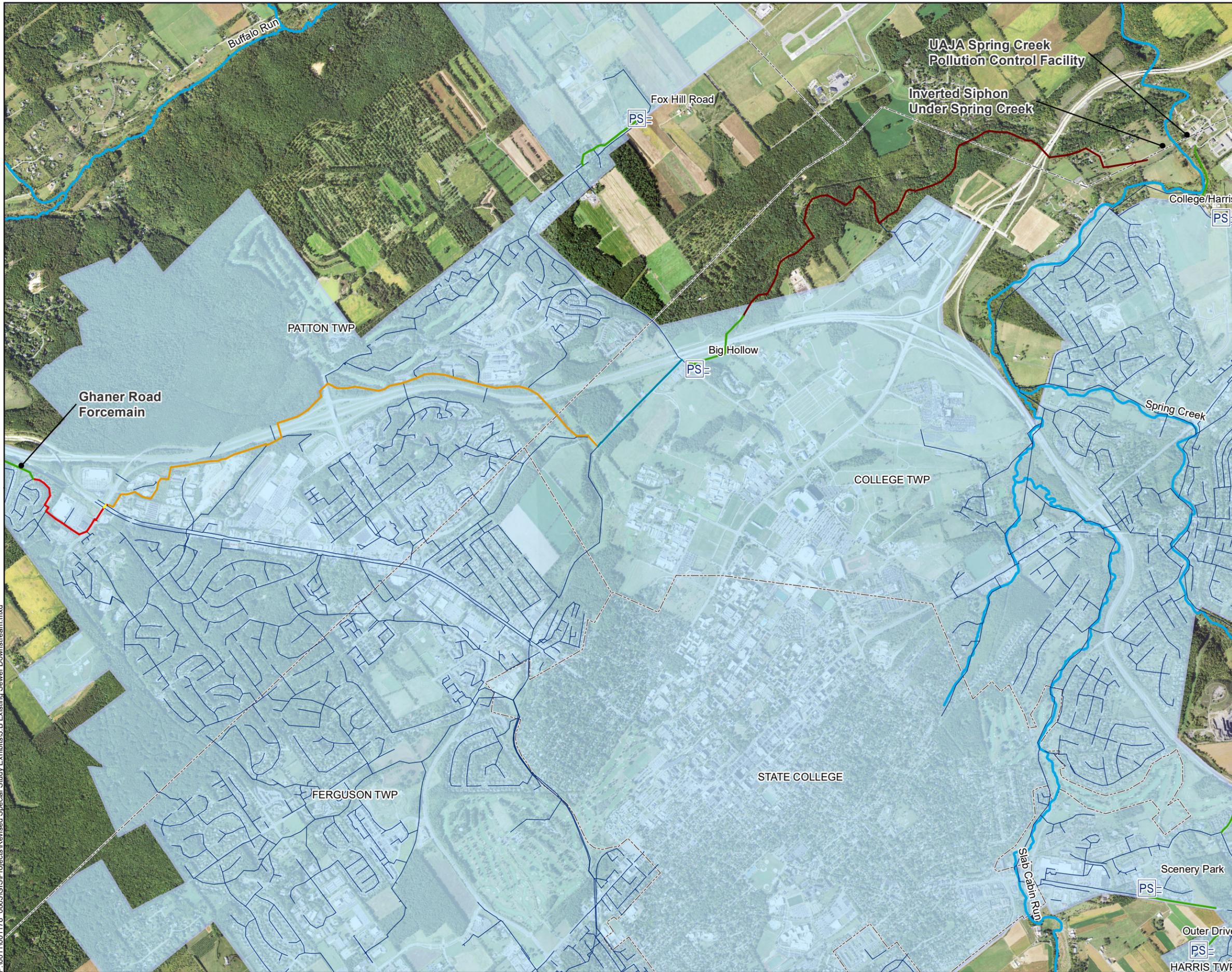


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P:\0011001178_0663\GIS\Projects\Revised Special Study\Exhibits\3.B Existing Sewer Downstream.mxd

Exhibit 4.A Zoning Districts

Patton Township,
Centre County, Pennsylvania

Legend

-  Streams
-  Municipal Boundaries
-  UAJA Pump Stations
-  Existing Forcemain
-  Existing Gravity Sewer

Patton Twp Zoning District

-  Agriculture
-  High Density Residential
-  Low Density Non-Residential
-  Low Density Residential
-  Medium Density Commercial
-  Medium Density Office Business District
-  Medium Density Residential
-  Office Business District
-  Open Space
-  Planned Community
-  Residential Mobile Home
-  Residential Mobile Home Park

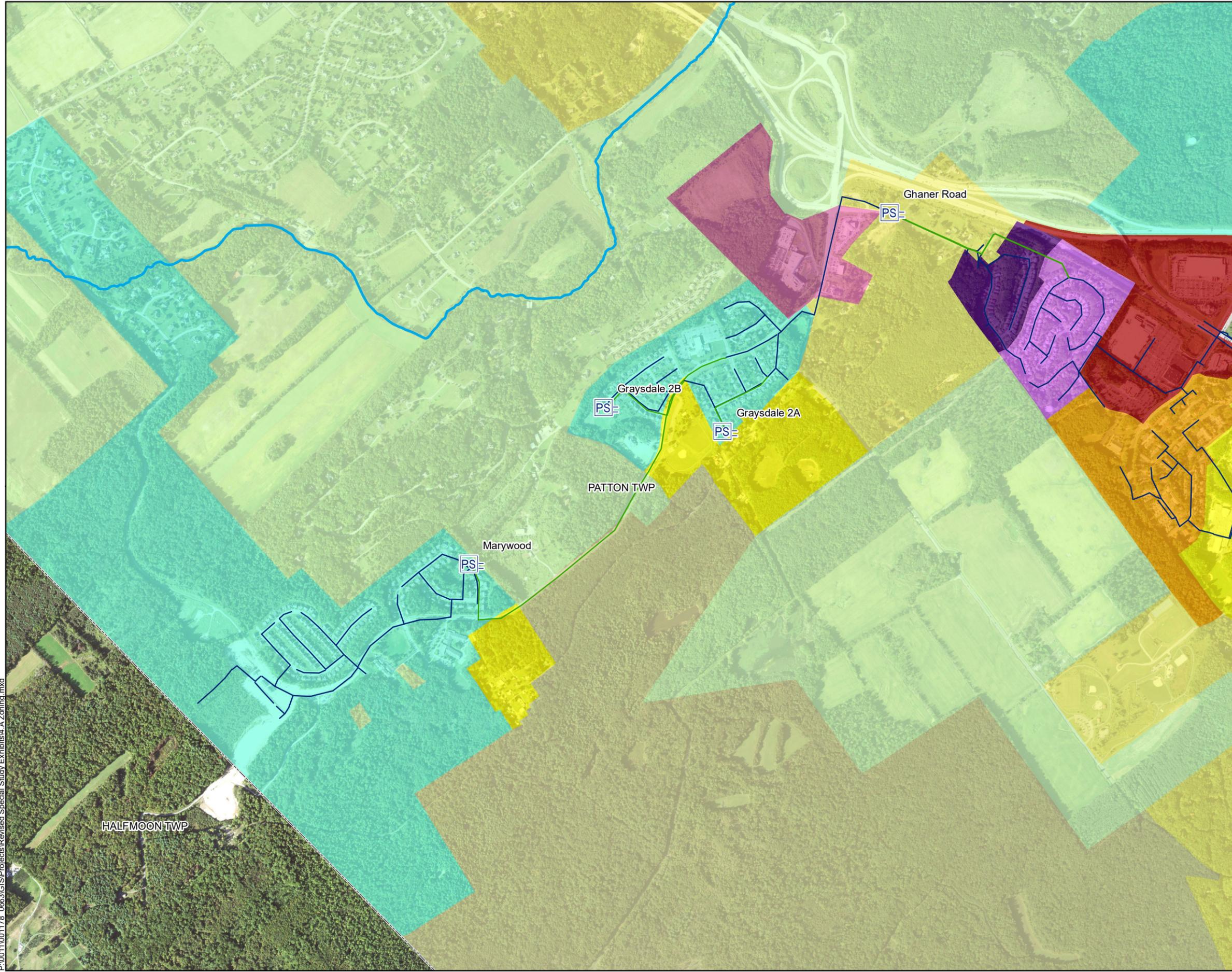


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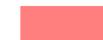
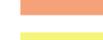
Exhibit 4.B Land Use Classifications

Patton Township,
Centre County, Pennsylvania

Legend

-  Streams
-  Municipal Boundaries
-  UAJA Pump Stations
-  Existing Forcemain
-  Existing Gravity Sewer

Land Use Categories

-  Agriculture
-  Commercial
-  Communications
-  Forests
-  Public or Semi-Public
-  Recreation
-  Residential
-  Transportation
-  Utility
-  Vacant and Unused Land
-  Water



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HALFMOON TWP

PATTON TWP

Marywood

Graysdale 2B

Graysdale 2A

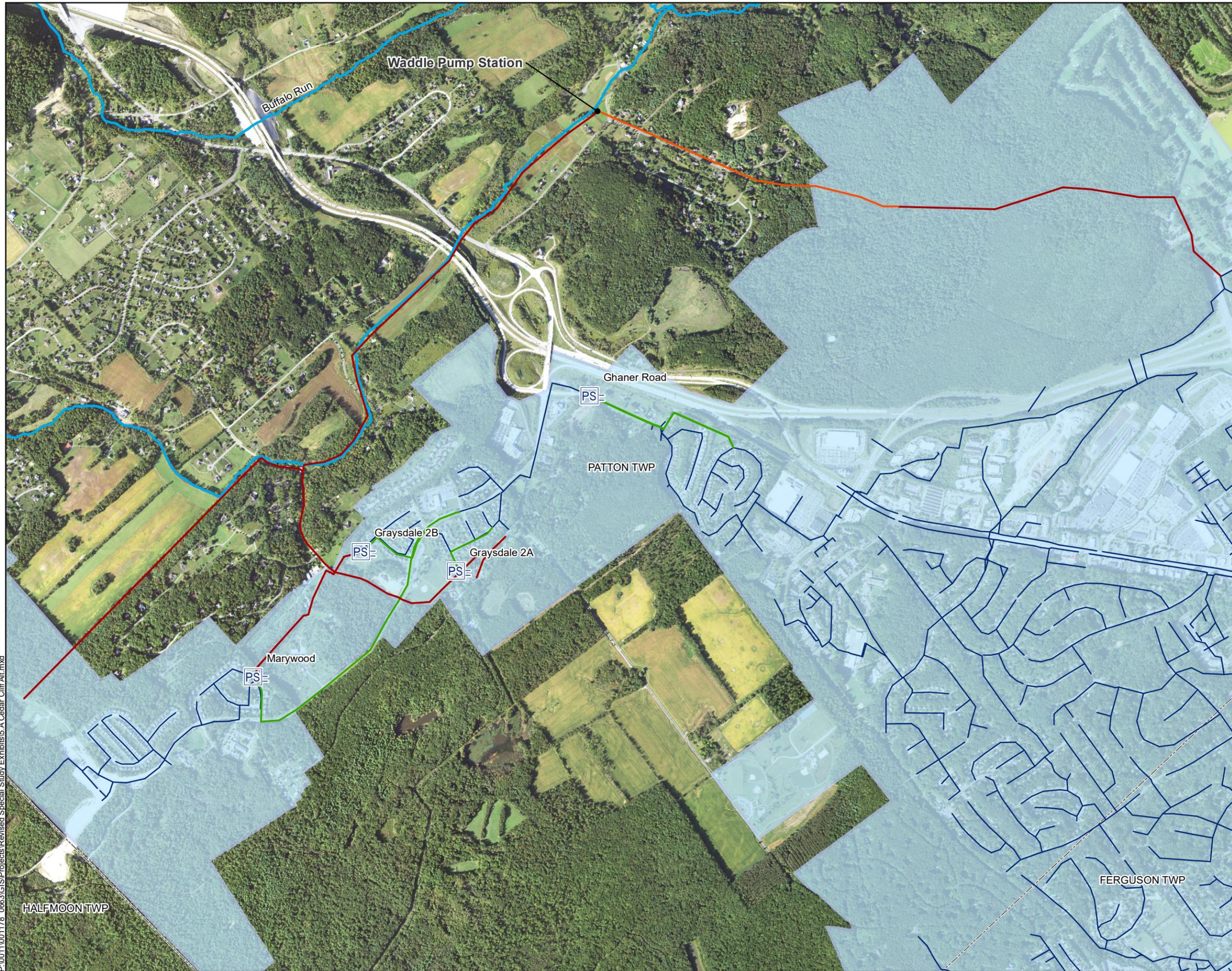
Ghaner Road

Exhibit 5.A Cedar Cliff Alternative Preliminary Alignment

Patton Township,
Centre County, Pennsylvania

Legend

-  Streams
-  Municipal Boundaries
-  Sewer Service Area
-  UAJA Pump Stations
-  Existing Forcemain
-  Existing Gravity Sewer, Various Diameter
-  Preliminary Gravity Conveyance Alignment
-  Preliminary Forcemain Alignment



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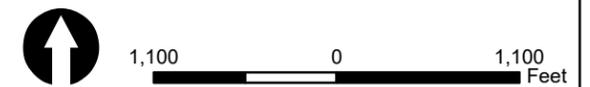
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Exhibit 5.B Meeks Lane Alternative A Preliminary Alignment

Patton Township,
Centre County, Pennsylvania

Legend

-  Streams
-  Municipal Boundaries
-  Sewer Service
-  UAJA Pump Stations
-  Existing Forcemain
-  Existing Gravity Sewer, Various Diameter
-  Existing Gravity Sewer, 8-inch Diameter, To Be Replaced
-  Existing Gravity Sewer, 12-inch Diameter, To Be Replaced
-  Preliminary Forcemain Alignment
-  Preliminary Gravity Conveyance Alignment

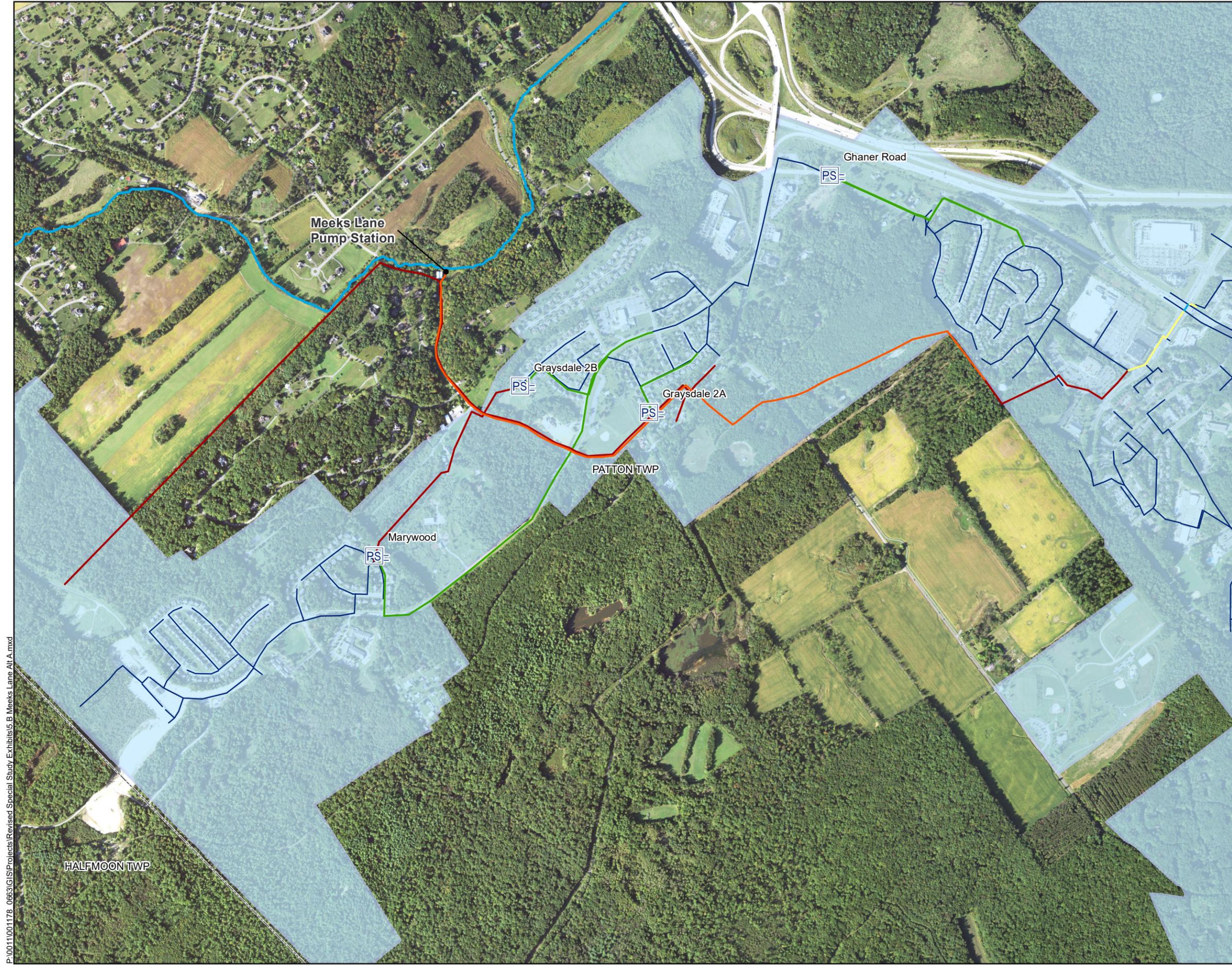


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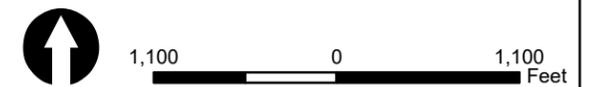
P:\0011001178_0663\GIS\Projects\Revised Special Study\Exhibits\5.B Meeks Lane Alt A.mxd

Exhibit 5.C Meeks Lane Alternative B Preliminary Alignment

Patton Township,
Centre County, Pennsylvania

Legend

-  Streams
-  Municipal Boundaries
-  Sewer Service Area
-  UAJA Pump Stations
-  Existing Forcemain
-  Existing Gravity Sewer, Various Diameter
-  Existing Gravity Sewer, 8-inch Diameter, To Be Replaced
-  Existing Gravity Sewer, 12-inch Diameter, To Be Replaced
-  Preliminary Forcemain Alignment
-  Preliminary Gravity Conveyance Alignment

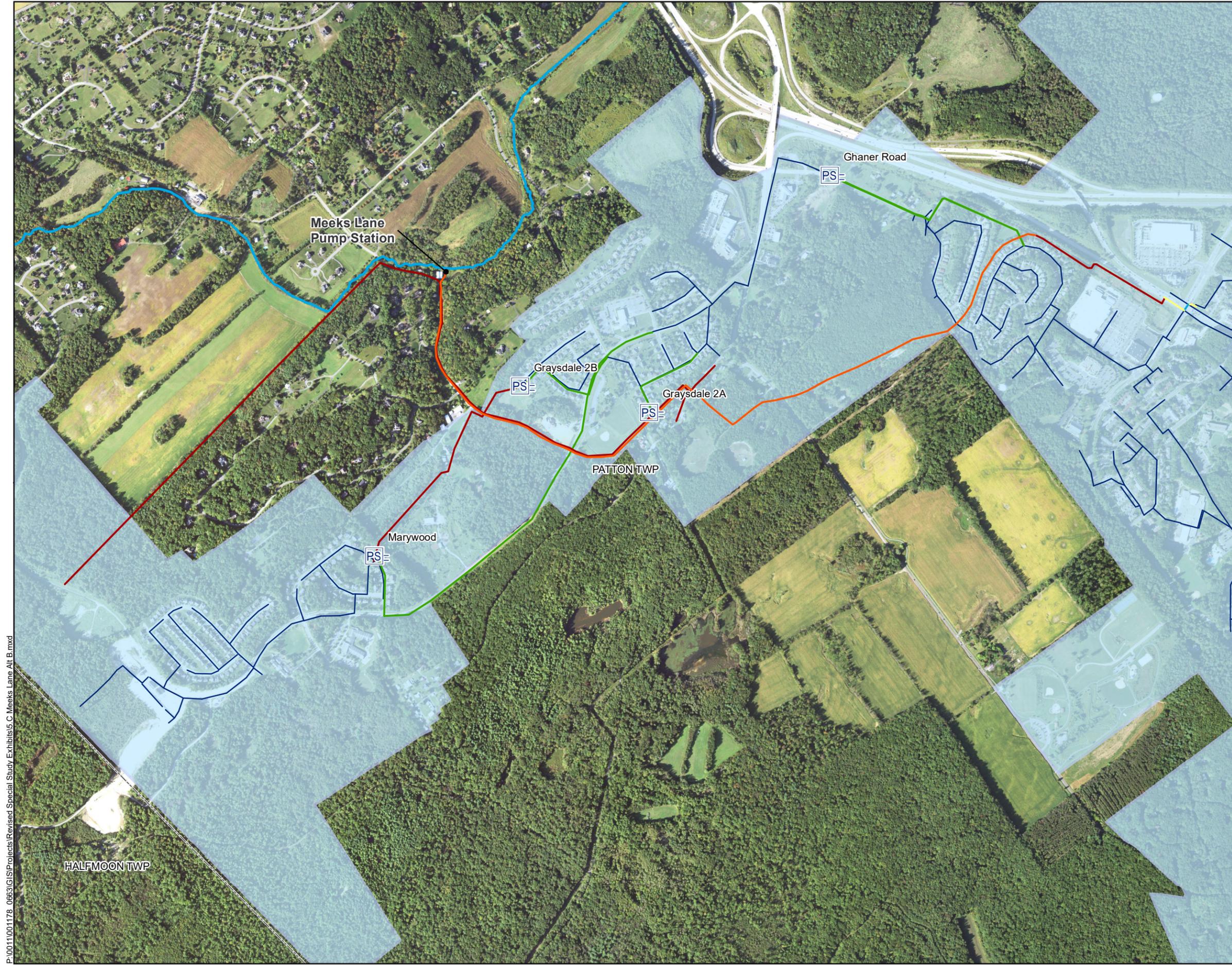


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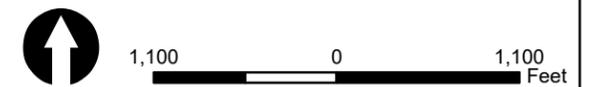
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Exhibit 5.D Meeks Lane Alternative C Preliminary Alignment

Patton Township,
Centre County, Pennsylvania

Legend

-  Streams
-  Municipal Boundaries
-  Sewer Service
-  UAJA Pump Stations
-  Existing Forcemain
-  Existing Gravity Sewer, Various Diameter
-  Existing Gravity Sewer, 8-inch Diameter, To Be Replaced
-  Existing Gravity Sewer, 12-inch Diameter, To Be Replaced
-  Preliminary Forcemain Alignment
-  Preliminary Gravity Conveyance Alignment

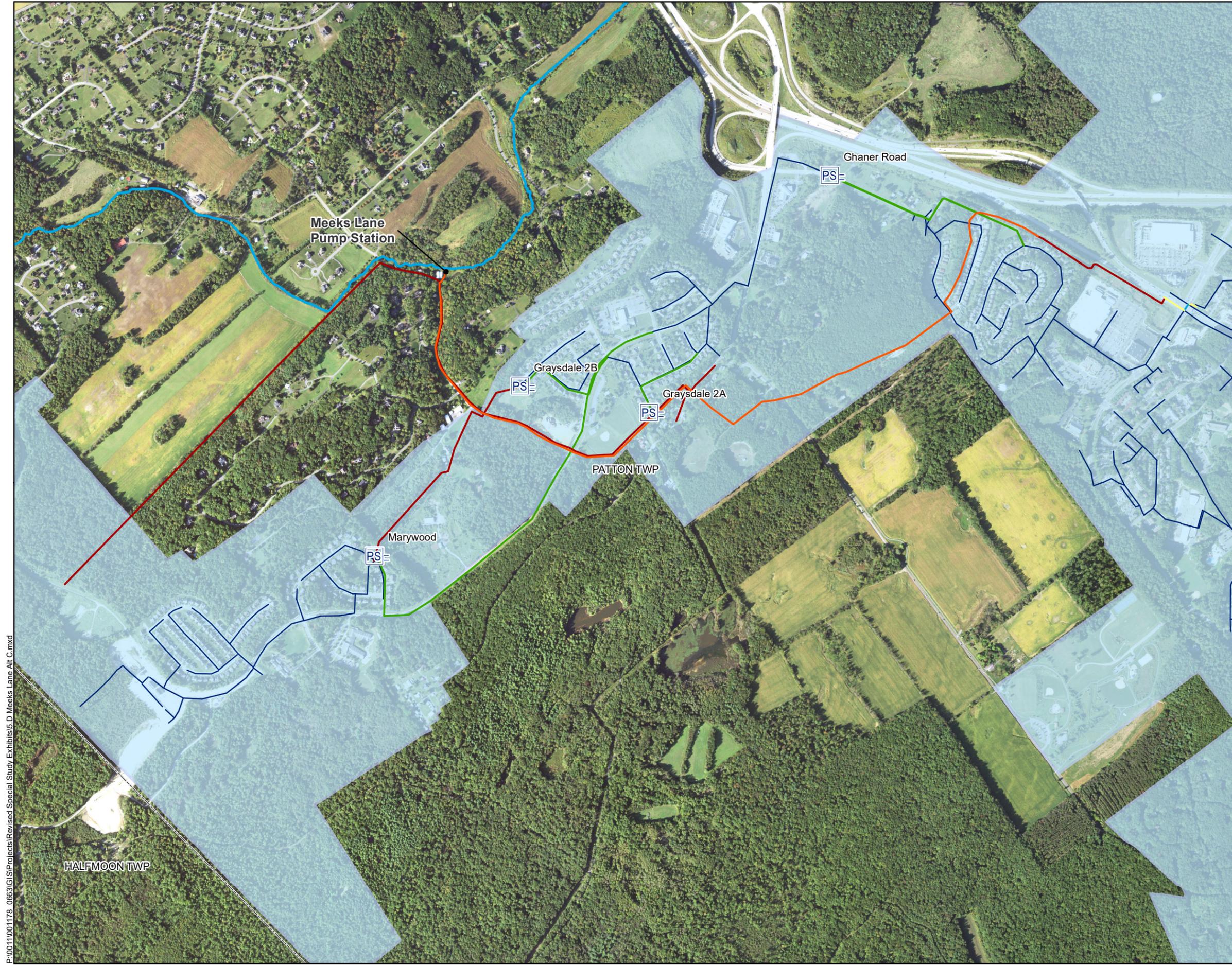


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HALFMOON TWP

PATTON TWP

Meeks Lane
Pump Station

Graysdale 2B

Graysdale 2A

Ghaner Road

Marywood

Exhibit 5.E Meeks Lane Alternative D Preliminary Alignment

Patton Township,
Centre County, Pennsylvania

Legend

-  Streams
-  Municipal Boundaries
-  Sewer Service Area
-  UAJA Pump Stations
-  Existing Force Main
-  Existing Gravity Sewer, Various Diameter
-  Existing Gravity Sewer, 8-inch Diameter, To Be Replaced
-  Existing Gravity Sewer, 12-inch Diameter, To Be Replaced
-  Preliminary Force Main Alignment
-  Preliminary Gravity Conveyance Alignment

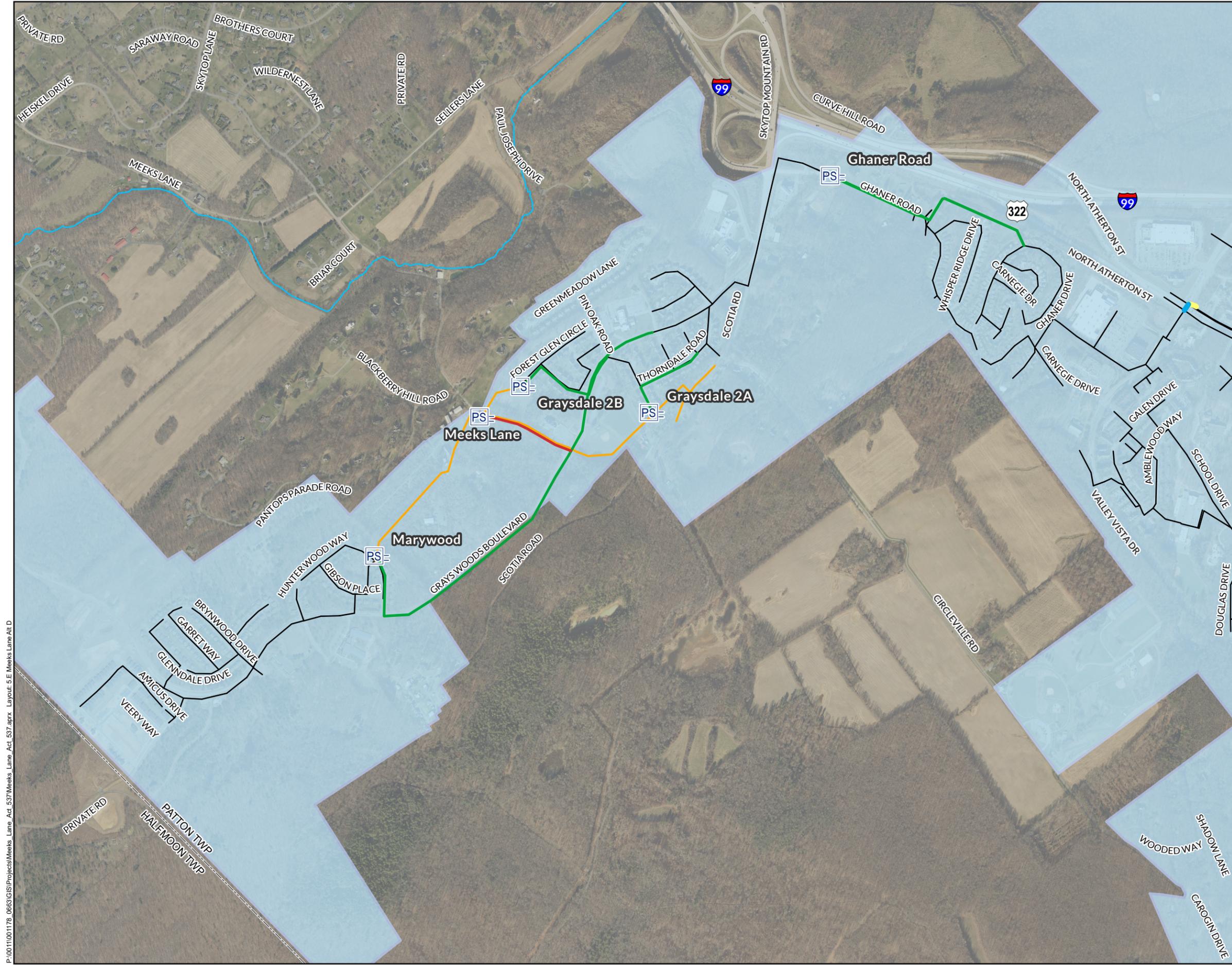


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P:\0011001178_0663\GIS\Projects\Meeks Lane Act 537\Meeks Lane Act 537.aprx Layout 5.E Meeks Lane Alt D

Exhibit 5.F Meeks Lane Pump Station; General Layout

Centre County, Pennsylvania

Legend

-  Streams
-  Streets
-  Preliminary Gravity
Conveyance Alignment
-  Preliminary Forcemain
Alignment



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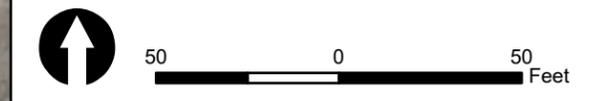
[BUILDING RELATIONSHIPS.
DESIGNING SOLUTIONS.]

Exhibit 5.G Meeks Lane Pump Station; General Layout

Centre County, Pennsylvania

Legend

-  Streets
-  Preliminary Forcemain Alignment
-  Preliminary Gravity Conveyance Alignment



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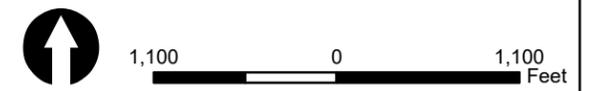
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Exhibit 5.H Blueberry Crossing Alternative A: Preliminary Alignment

Centre County, Pennsylvania

Legend

- Streams
- Municipal Boundaries
- Sewer Service
- UAJA Pump Stations
- Existing Forcemain
- Existing Gravity Sewer, Various Diameter
- Existing Gravity Sewer, 8-inch Diameter, To Be Replaced
- Existing Gravity Sewer, 12-inch Diameter, To Be Replaced
- Preliminary Forcemain Alignment
- Preliminary Gravity Conveyance Alignment



Mapping derived from data provided by CentreGIS.

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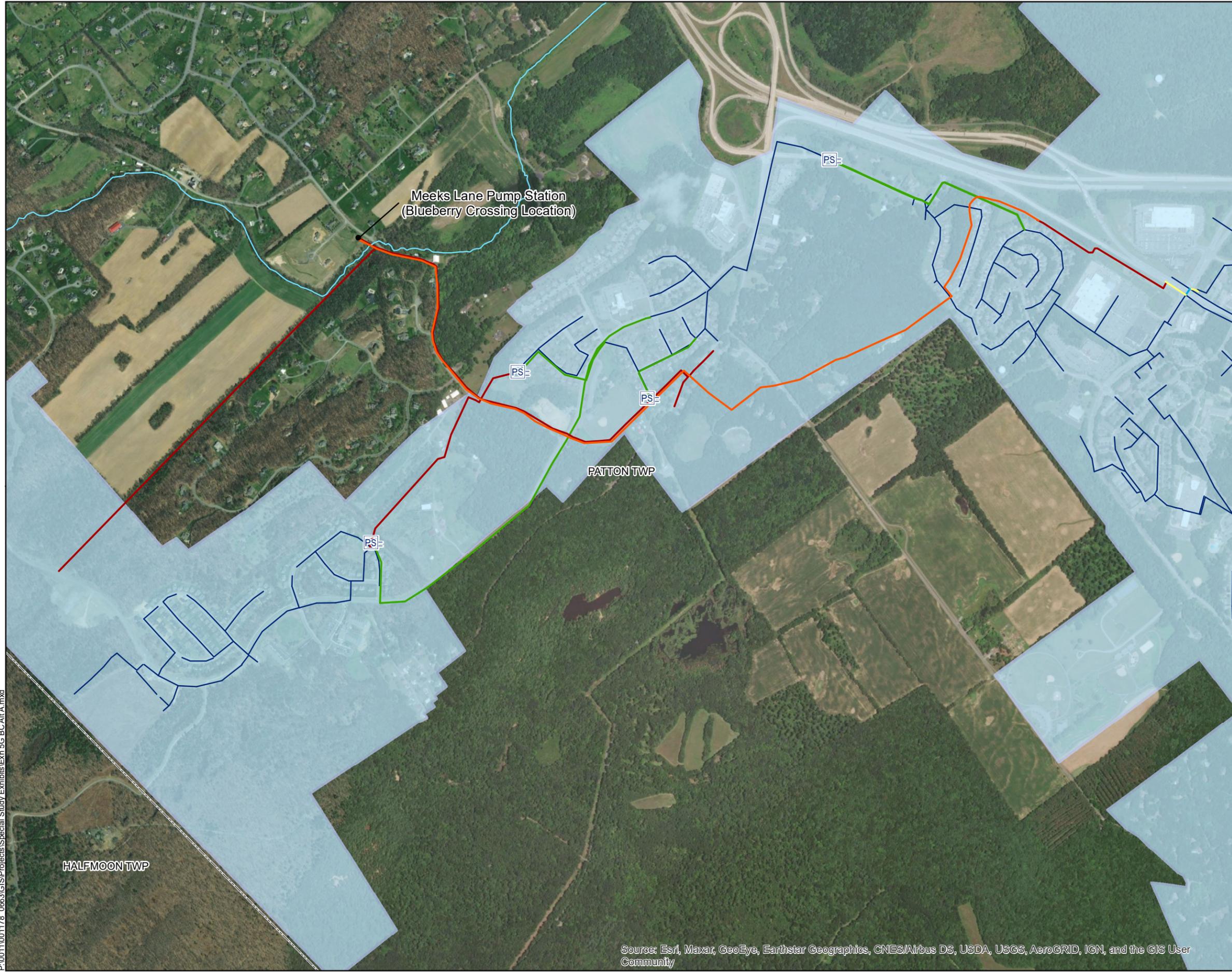


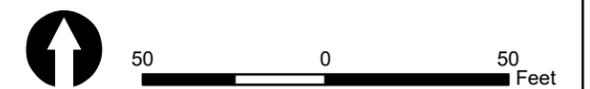
Exhibit 5.1 Meeks Lane Pump Station (Blueberry Crossing Location) General Layout

Patton Township,
Centre County, Pennsylvania

Legend

-  Streams
-  Streets
-  Preliminary Gravity Conveyance Alignment
-  Preliminary Forcemain Alignment

New Pump Station, Control Panels, and Appurtenances



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APPENDIX

B

ENGINEER'S OPINION
OF PROBABLE
CONSTRUCTION COSTS





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**ENGINEER'S OPINION OF PROBABLE CONSTRUCTION AND PROJECT COSTS
 2021 CENTRE REGION ACT 537 SEWAGE FACILITIES PLAN UPDATE:
 SPECIAL STUDY FOR THE MEEKS LANE PUMP STATION**

CEDAR CLIFF ALTERNATIVE: PUMP STATION WITH ASSOCIATED GRAVITY INTERCEPTORS AND FORCEMAIN

May 2025

CAPITAL COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
GENERAL CONDITIONS					
1	MOBILIZATION & PROJECT MANAGEMENT (4%)	1	L.S.	\$ 281,514	\$ 281,514
2	TRAFFIC MAINTENANCE & PROTECTION (2.5%)	1	L.S.	\$ 175,946	\$ 175,946
3	EROSION & SEDIMENTATION CONTROL (1%)	1	L.S.	\$ 70,378	\$ 70,378
4	CLEARING/GRUBBING (1%)	1	L.S.	\$ 70,378	\$ 70,378
SANITARY SEWER (GRAVITY INTERCEPTORS UPSTREAM OF PUMP STATION)					
5	8" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	14560	L.F.	\$ 100	\$ 1,456,000
6	8" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	7840	L.F.	\$ 120	\$ 940,800
7	4-FOOT SEWER MANHOLE	68	EA.	\$ 6,500	\$ 442,000
8	CONNECTION TO EXISTING MANHOLE	3	EA.	\$ 1,850	\$ 5,550
9	NORTH ATHERTON CROSSING (BORE AND JACK)	1	EA.	\$ 380,500	\$ 380,500
BUILDING					
5	PRE-CAST BUILDING (14' X 20')	1	L.S.	\$ 85,000	\$ 85,000
6	FOUNDATION	1	L.S.	\$ 15,000	\$ 15,000
7	HVAC	1	L.S.	\$ 10,000	\$ 10,000
8	EMERGENCY GENERATOR	1	L.S.	\$ 60,750	\$ 60,750
9	3-PHASE POWER UPGRADE	1	L.S.	\$ 48,000	\$ 48,000
PUMP STATION					
10	SUBMERSIBLE PUMP PACKAGE W/ CONTROLS	1	L.S.	\$ 447,000	\$ 447,000
11	12' DIAMETER X 25' TALL WET WELL W/ HDPE LINER	1	L.S.	\$ 165,000	\$ 165,000
12	6' X 8' X 6.5' VALVE VAULT	1	L.S.	\$ 46,000	\$ 46,000
13	VALVES AND SITE PIPING	1	L.S.	\$ 20,000	\$ 20,000
14	ELECTRICAL INSTALLATION (GENERAL WIRING/LIGHTING/PANELS)	1	L.S.	\$ 45,500	\$ 45,500
FORCEMAIN					
15	12" FORCEMAIN INSTALLATION	5025	L.F.	\$ 100	\$ 502,500
16	AIR RELEASE/VACUUM VALVE STATION	2	EA.	\$ 6,400	\$ 12,800
SANITARY SEWER (GRAVITY INTERCEPTOR DOWNSTREAM OF FORCEMAIN)					
17	15" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	3851	L.F.	\$ 200	\$ 770,250
18	15" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	2074	L.F.	\$ 250	\$ 518,438
19	4-FOOT SEWER MANHOLE	18	EA.	\$ 6,500	\$ 117,000
20	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,850	\$ 1,850
SURFACING AND RESTORATION					
21	VEGETATIVE RESTORATION	28050	L.F.	\$ 10	\$ 280,500
22	IMPROVED SURFACE	500	L.F.	\$ 100	\$ 50,000
23	MUNICIPAL STREET	4800	L.F.	\$ 85	\$ 408,000
MISCELLANEOUS					
24	UNCLASSIFIED EXCAVATION, UNMARKED/MISMARKED UTILITIES	1	L.S.	\$ 209,400	\$ 209,400
SUBTOTAL FOR CONSTRUCTION					\$ 7,636,054
SOFT COSTS					
25	ENGINEERING, LEGAL, ADMINISTRATIVE	1	L.S.	\$ 916,400	\$ 916,400
				PROJECT SUBTOTAL	\$ 8,552,454
				CONTINGENCY (15%)	\$ 1,282,868
				TOTAL PROJECT COST	\$ 9,836,000

ANNUAL O&M COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
1	ELECTRICITY (PROPOSED PUMP STATION)	1	L.S.	\$ 30,865	\$ 30,865
2	LABOR - SYSTEM OPERATOR	365	HOURLY	\$ 50	\$ 18,250
ESTIMATED YEARLY O&M COST					\$ 49,115

ANNUAL O&M PRESENT WORTH	TOTAL PRESENT WORTH
\$ 765,666	\$ 10,602,000



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**ENGINEER'S OPINION OF PROBABLE CONSTRUCTION AND PROJECT COSTS
 2021 CENTRE REGION ACT 537 SEWAGE FACILITIES PLAN UPDATE:
 SPECIAL STUDY FOR THE MEEKS LANE PUMP STATION**

MEEKS LANE ALTERNATIVE A: PUMP STATION WITH ASSOCIATED GRAVITY INTERCEPTORS AND FORCEMAIN

May 2025

CAPITAL COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
GENERAL CONDITIONS					
1	MOBILIZATION & PROJECT MANAGEMENT (4%)	1	L.S.	\$ 226,667	\$ 226,667
2	TRAFFIC MAINTENANCE & PROTECTION (2.5%)	1	L.S.	\$ 141,667	\$ 141,667
3	EROSION & SEDIMENTATION CONTROL (1%)	1	L.S.	\$ 56,667	\$ 56,667
4	CLEARING/GRUBBING (1%)	1	L.S.	\$ 56,667	\$ 56,667
SANITARY SEWER (GRAVITY INTERCEPTORS UPSTREAM OF PUMP STATION)					
5	8" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	9425	L.F.	\$ 100	\$ 942,500
6	8" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	5075	L.F.	\$ 120	\$ 609,000
7	4-FOOT SEWER MANHOLE	44	EA.	\$ 6,500	\$ 286,000
8	CONNECTION TO EXISTING MANHOLE	3	EA.	\$ 1,850	\$ 5,550
BUILDING					
5	PRE-CAST BUILDING (14' X 20')	1	L.S.	\$ 85,000	\$ 85,000
6	FOUNDATION	1	L.S.	\$ 15,000	\$ 15,000
7	HVAC	1	L.S.	\$ 10,000	\$ 10,000
8	EMERGENCY GENERATOR	1	L.S.	\$ 60,750	\$ 60,750
9	3-PHASE POWER UPGRADE	1	L.S.	\$ 48,000	\$ 48,000
PUMP STATION					
10	SUBMERSIBLE PUMP PACKAGE W/ CONTROLS	1	L.S.	\$ 447,000	\$ 447,000
11	12' DIAMETER X 25' TALL WET WELL W/ HDPE LINER	1	L.S.	\$ 165,000	\$ 165,000
12	6' X 8' X 6.5' VALVE VAULT	1	L.S.	\$ 46,000	\$ 46,000
13	VALVES AND SITE PIPING	1	L.S.	\$ 20,000	\$ 20,000
14	ELECTRICAL INSTALLATION (GENERAL WIRING/LIGHTING/PANELS)	1	L.S.	\$ 45,500	\$ 45,500
FORCEMAIN					
15	12" FORCEMAIN INSTALLATION	8900	L.F.	\$ 100	\$ 890,000
16	AIR RELEASE/VACUUM VALVE STATION	4	EA.	\$ 6,400	\$ 25,600
SANITARY SEWER (GRAVITY INTERCEPTOR DOWNSTREAM OF FORCEMAIN)					
17	15" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	2074	L.F.	\$ 200	\$ 414,700
18	15" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	1117	L.F.	\$ 250	\$ 279,125
19	4-FOOT SEWER MANHOLE	10	EA.	\$ 6,500	\$ 65,000
20	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,850	\$ 1,850
21	NORTH ATHERTON CROSSING (BORE AND JACK)	1	EA.	\$ 380,500	\$ 380,500
SURFACING AND RESTORATION					
22	VEGETATIVE RESTORATION	15030	L.F.	\$ 10	\$ 150,300
23	IMPROVED SURFACE	500	L.F.	\$ 100	\$ 50,000
24	MUNICIPAL STREET	5500	L.F.	\$ 85	\$ 467,500
MISCELLANEOUS					
25	UNCLASSIFIED EXCAVATION, UNMARKED/MISMARKED UTILITIES	1	L.S.	\$ 156,800	\$ 156,800
SUBTOTAL FOR CONSTRUCTION					\$ 6,148,342
SOFT COSTS					
26	ENGINEERING, LEGAL, ADMINISTRATIVE	1	L.S.	\$ 737,900	\$ 737,900
PROJECT SUBTOTAL					\$ 6,886,242
CONTINGENCY (15%)					\$ 1,032,936
TOTAL PROJECT COST					\$ 7,920,000

ANNUAL O&M COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
1	ELECTRICITY (PROPOSED PUMP STATION)	1	L.S.	\$ 30,865	\$ 30,865
2	LABOR - SYSTEM OPERATOR	365	HOURLY	\$ 50	\$ 18,250
ESTIMATED YEARLY O&M COST					\$ 49,115

ANNUAL O&M PRESENT WORTH	TOTAL PRESENT WORTH
\$ 765,666	\$ 8,686,000



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**ENGINEER'S OPINION OF PROBABLE CONSTRUCTION AND PROJECT COSTS
 2021 CENTRE REGION ACT 537 SEWAGE FACILITIES PLAN UPDATE:
 SPECIAL STUDY FOR THE MEEKS LANE PUMP STATION**

MEEKS LANE ALTERNATIVE B: PUMP STATION WITH ASSOCIATED GRAVITY INTERCEPTORS AND FORCEMAIN

MAY 2025

CAPITAL COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
GENERAL CONDITIONS					
1	MOBILIZATION & PROJECT MANAGEMENT (4%)	1	L.S.	\$ 221,597	\$ 221,597
2	TRAFFIC MAINTENANCE & PROTECTION (2.5%)	1	L.S.	\$ 138,498	\$ 138,498
3	EROSION & SEDIMENTATION CONTROL (1%)	1	L.S.	\$ 55,399	\$ 55,399
4	CLEARING/GRUBBING (1%)	1	L.S.	\$ 55,399	\$ 55,399
SANITARY SEWER (GRAVITY INTERCEPTORS UPSTREAM OF PUMP STATION)					
5	8" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	9425	L.F.	\$ 100	\$ 942,500
6	8" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	5075	L.F.	\$ 120	\$ 609,000
7	4-FOOT SEWER MANHOLE	44	EA.	\$ 6,500	\$ 286,000
8	CONNECTION TO EXISTING MANHOLE	3	EA.	\$ 1,850	\$ 5,550
BUILDING					
5	PRE-CAST BUILDING (14' X 20')	1	L.S.	\$ 85,000	\$ 85,000
6	FOUNDATION	1	L.S.	\$ 15,000	\$ 15,000
7	HVAC	1	L.S.	\$ 10,000	\$ 10,000
8	EMERGENCY GENERATOR	1	L.S.	\$ 60,750	\$ 60,750
9	3-PHASE POWER UPGRADE	1	L.S.	\$ 48,000	\$ 48,000
PUMP STATION					
10	SUBMERSIBLE PUMP PACKAGE W/ CONTROLS	1	L.S.	\$ 447,000	\$ 447,000
11	12' DIAMETER X 25' TALL WET WELL W/ HDPE LINER	1	L.S.	\$ 165,000	\$ 165,000
12	6' X 8' X 6.5' VALVE VAULT	1	L.S.	\$ 46,000	\$ 46,000
13	VALVES AND SITE PIPING	1	L.S.	\$ 20,000	\$ 20,000
14	ELECTRICAL INSTALLATION (GENERAL WIRING/LIGHTING/PANELS)	1	L.S.	\$ 45,500	\$ 45,500
FORCEMAIN					
15	12" FORCEMAIN INSTALLATION	9780	L.F.	\$ 100	\$ 978,000
16	AIR RELEASE/VACUUM VALVE STATION	4	EA.	\$ 6,400	\$ 25,600
SANITARY SEWER (GRAVITY INTERCEPTOR DOWNSTREAM OF FORCEMAIN)					
17	15" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	1359	L.F.	\$ 200	\$ 271,700
18	15" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	732	L.F.	\$ 250	\$ 182,875
19	4-FOOT SEWER MANHOLE	7	EA.	\$ 6,500	\$ 45,500
20	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,850	\$ 1,850
21	NORTH ATHERTON CROSSING (BORE AND JACK)	1	EA.	\$ 380,500	\$ 380,500
SURFACING AND RESTORATION					
22	VEGETATIVE RESTORATION	14530	L.F.	\$ 10	\$ 145,300
23	IMPROVED SURFACE	2680	L.F.	\$ 100	\$ 268,000
24	MUNICIPAL STREET	3600	L.F.	\$ 85	\$ 306,000
MISCELLANEOUS					
25	UNCLASSIFIED EXCAVATION, UNMARKED/MISMARKED UTILITIES	1	L.S.	\$ 149,300	\$ 149,300
SUBTOTAL FOR CONSTRUCTION					\$ 6,010,819
SOFT COSTS					
26	ENGINEERING, LEGAL, ADMINISTRATIVE	1	L.S.	\$ 721,300	\$ 721,300
PROJECT SUBTOTAL					\$ 6,732,119
CONTINGENCY (15%)					\$ 1,009,818
TOTAL PROJECT COST					\$ 7,742,000

ANNUAL O&M COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
1	ELECTRICITY (PROPOSED PUMP STATION)	1	L.S.	\$ 30,865	\$ 30,865
2	LABOR - SYSTEM OPERATOR	365	HOURLY	\$ 50	\$ 18,250
ESTIMATED YEARLY O&M COST					\$ 49,115

ANNUAL O&M PRESENT WORTH	TOTAL PRESENT WORTH
\$ 765,666	\$ 8,508,000



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**ENGINEER'S OPINION OF PROBABLE CONSTRUCTION AND PROJECT COSTS
 2021 CENTRE REGION ACT 537 SEWAGE FACILITIES PLAN UPDATE:
 SPECIAL STUDY FOR THE MEEKS LANE PUMP STATION**

MEEKS LANE ALTERNATIVE C: PUMP STATION WITH ASSOCIATED GRAVITY INTERCEPTORS AND FORCEMAIN

May 2025

CAPITAL COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
GENERAL CONDITIONS					
1	MOBILIZATION & PROJECT MANAGEMENT (4%)	1	L.S.	\$ 217,241	\$ 217,241
2	TRAFFIC MAINTENANCE & PROTECTION (2.5%)	1	L.S.	\$ 135,776	\$ 135,776
3	EROSION & SEDIMENTATION CONTROL (1%)	1	L.S.	\$ 54,310	\$ 54,310
4	CLEARING/GRUBBING (1%)	1	L.S.	\$ 54,310	\$ 54,310
SANITARY SEWER (GRAVITY INTERCEPTORS UPSTREAM OF PUMP STATION)					
5	8" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	9425	L.F.	\$ 100	\$ 942,500
6	8" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	5075	L.F.	\$ 120	\$ 609,000
7	4-FOOT SEWER MANHOLE	44	EA.	\$ 6,500	\$ 286,000
8	CONNECTION TO EXISTING MANHOLE	3	EA.	\$ 1,850	\$ 5,550
BUILDING					
5	PRE-CAST BUILDING (14' X 20')	1	L.S.	\$ 85,000	\$ 85,000
6	FOUNDATION	1	L.S.	\$ 15,000	\$ 15,000
7	HVAC	1	L.S.	\$ 10,000	\$ 10,000
8	EMERGENCY GENERATOR	1	L.S.	\$ 60,750	\$ 60,750
9	3-PHASE POWER UPGRADE	1	L.S.	\$ 48,000	\$ 48,000
PUMP STATION					
10	SUBMERSIBLE PUMP PACKAGE W/ CONTROLS	1	L.S.	\$ 447,000	\$ 447,000
11	12' DIAMETER X 25' TALL WET WELL W/ HDPE LINER	1	L.S.	\$ 165,000	\$ 165,000
12	6' X 8' X 6.5' VALVE VAULT	1	L.S.	\$ 46,000	\$ 46,000
13	VALVES AND SITE PIPING	1	L.S.	\$ 20,000	\$ 20,000
14	ELECTRICAL INSTALLATION (GENERAL WIRING/LIGHTING/PANELS)	1	L.S.	\$ 45,500	\$ 45,500
FORCEMAIN					
15	12" FORCEMAIN INSTALLATION ¹	10350	L.F.	\$ 100	\$ 1,035,000
16	AIR RELEASE/VACUUM VALVE STATION	4	EA.	\$ 6,400	\$ 25,600
SANITARY SEWER (GRAVITY INTERCEPTOR DOWNSTREAM OF FORCEMAIN)					
17	15" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	1359	L.F.	\$ 200	\$ 271,700
18	15" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	732	L.F.	\$ 250	\$ 182,875
19	4-FOOT SEWER MANHOLE	7	EA.	\$ 6,500	\$ 45,500
20	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,850	\$ 1,850
21	NORTH ATHERTON CROSSING (BORE AND JACK)	1	EA.	\$ 380,500	\$ 380,500
SURFACING AND RESTORATION					
22	VEGETATIVE RESTORATION	19460	L.F.	\$ 10	\$ 194,600
23	IMPROVED SURFACE	500	L.F.	\$ 100	\$ 50,000
24	MUNICIPAL STREET	3600	L.F.	\$ 85	\$ 306,000
MISCELLANEOUS					
25	UNCLASSIFIED EXCAVATION, UNMARKED/MISMARKED UTILITIES	1	L.S.	\$ 152,100	\$ 152,100
SUBTOTAL FOR CONSTRUCTION					\$ 5,892,662
SOFT COSTS					
26	ENGINEERING, LEGAL, ADMINISTRATIVE	1	L.S.	\$ 707,200	\$ 707,200
PROJECT SUBTOTAL					\$ 6,599,862
CONTINGENCY (15%)					\$ 989,979
TOTAL PROJECT COST					\$ 7,590,000

¹Cost per linear foot reduced from previous alternative to depict cost savings as a result of ease of construction compared to walking path alignment.

ANNUAL O&M COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
1	ELECTRICITY (PROPOSED PUMP STATION)	1	L.S.	\$ 30,865	\$ 30,865
2	LABOR - SYSTEM OPERATOR	365	HOUR	\$ 50	\$ 18,250
ESTIMATED YEARLY O&M COST					\$ 49,115

ANNUAL O&M	TOTAL PRESENT WORTH
PRESENT WORTH	
\$ 765,666	\$ 8,356,000



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**ENGINEER'S OPINION OF PROBABLE CONSTRUCTION AND PROJECT COSTS
 2021 CENTRE REGION ACT 537 SEWAGE FACILITIES PLAN UPDATE:
 SPECIAL STUDY FOR THE MEEKS LANE PUMP STATION**

MEEKS LANE ALTERNATIVE D: PUMP STATION WITH ASSOCIATED GRAVITY INTERCEPTORS AND FORCEMAIN

MAY 2025

CAPITAL COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
GENERAL CONDITIONS					
1	MOBILIZATION & PROJECT MANAGEMENT (4%)	1	L.S.	\$ 98,683	\$ 98,683
2	TRAFFIC MAINTENANCE & PROTECTION (2.5%)	1	L.S.	\$ 61,677	\$ 61,677
3	EROSION & SEDIMENTATION CONTROL (1%)	1	L.S.	\$ 24,671	\$ 24,671
4	CLEARING/GRUBBING (1%)	1	L.S.	\$ 24,671	\$ 24,671
SANITARY SEWER (GRAVITY INTERCEPTORS UPSTREAM OF PUMP STATION)					
5	8" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	4316	L.F.	\$ 100	\$ 431,600
6	8" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	2324	L.F.	\$ 120	\$ 278,880
7	4-FOOT SEWER MANHOLE	20	EA.	\$ 6,500	\$ 130,000
8	CONNECTION TO EXISTING MANHOLE	3	EA.	\$ 1,850	\$ 5,550
BUILDING					
5	PRE-CAST BUILDING (14' X 20')	0	L.S.	\$ 85,000	\$ -
6	FOUNDATION	0	L.S.	\$ 15,000	\$ -
7	HVAC	0	L.S.	\$ 10,000	\$ -
8	EMERGENCY GENERATOR	1	L.S.	\$ 60,750	\$ 60,750
9	3-PHASE POWER UPGRADE	1	L.S.	\$ 48,000	\$ 48,000
PUMP STATION					
10	SUBMERSIBLE PUMP PACKAGE W/ CONTROLS	1	L.S.	\$ 447,000	\$ 447,000
11	12' DIAMETER X 25' TALL WET WELL W/ HDPE LINER	1	L.S.	\$ 165,000	\$ 165,000
12	6' X 8' X 6.5' VALVE VAULT	1	L.S.	\$ 46,000	\$ 46,000
13	VALVES AND SITE PIPING	1	L.S.	\$ 20,000	\$ 20,000
14	ELECTRICAL INSTALLATION (GENERAL WIRING/LIGHTING/PANELS)	1	L.S.	\$ 45,500	\$ 45,500
FORCEMAIN					
15	8" FORCEMAIN INSTALLATION ¹	1090	L.F.	\$ 100	\$ 109,000
16	AIR RELEASE/VACUUM VALVE STATION	0	EA.	\$ 6,400	\$ -
SANITARY SEWER (GRAVITY INTERCEPTOR DOWNSTREAM OF FORCEMAIN)					
17	15" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	65	L.F.	\$ 200	\$ 13,000
18	15" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	35	L.F.	\$ 250	\$ 8,750
19	4-FOOT SEWER MANHOLE	1	EA.	\$ 6,500	\$ 6,500
20	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,850	\$ 1,850
21	NORTH ATHERTON CROSSING (BORE AND JACK)	1	EA.	\$ 380,500	\$ 380,500
SURFACING AND RESTORATION					
22	VEGETATIVE RESTORATION	4110	L.F.	\$ 10	\$ 41,100
23	IMPROVED SURFACE	500	L.F.	\$ 100	\$ 50,000
24	MUNICIPAL STREET	1600	L.F.	\$ 85	\$ 136,000
MISCELLANEOUS					
25	UNCLASSIFIED EXCAVATION, UNMARKED/MISMARKED UTILITIES	1	L.S.	\$ 42,100	\$ 42,100
SUBTOTAL FOR CONSTRUCTION					\$ 2,676,782
SOFT COSTS					
26	ENGINEERING, LEGAL, ADMINISTRATIVE	1	L.S.	\$ 321,300	\$ 321,300
				PROJECT SUBTOTAL	\$ 2,998,082
				CONTINGENCY (15%)	\$ 449,712
				TOTAL PROJECT COST	\$ 3,448,000

¹Cost per linear foot reduced from previous alternative to depict cost savings as a result of ease of construction compared to walking path alignment.

ANNUAL O&M COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
1	ELECTRICITY (PROPOSED PUMP STATION)	1	L.S.	\$ 30,865	\$ 30,865
2	LABOR - SYSTEM OPERATOR	365	HOUR	\$ 50	\$ 18,250
ESTIMATED YEARLY O&M COST					\$ 49,115

ANNUAL O&M PRESENT WORTH	TOTAL PRESENT WORTH
\$ 765,666	\$ 4,214,000



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**ENGINEER'S OPINION OF PROBABLE CONSTRUCTION AND PROJECT COSTS
 2021 CENTRE REGION ACT 537 SEWAGE FACILITIES PLAN UPDATE:
 SPECIAL STUDY FOR THE MEEKS LANE PUMP STATION**

BLUEBERRY CROSSING ALTERNATIVE: PUMP STATION WITH ASSOCIATED GRAVITY INTERCEPTORS AND FORCEMAIN

May 2025

CAPITAL COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
GENERAL CONDITIONS					
1	MOBILIZATION & PROJECT MANAGEMENT (4%)	1	L.S.	\$ 226,317	\$ 226,317
2	TRAFFIC MAINTENANCE & PROTECTION (2.5%)	1	L.S.	\$ 141,448	\$ 141,448
3	EROSION & SEDIMENTATION CONTROL (1%)	1	L.S.	\$ 56,579	\$ 56,579
4	CLEARING/GRUBBING (1%)	1	L.S.	\$ 56,579	\$ 56,579
SANITARY SEWER (GRAVITY INTERCEPTORS UPSTREAM OF PUMP STATION)					
5	8" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	9597	L.F.	\$ 100	\$ 959,725
6	8" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	5168	L.F.	\$ 120	\$ 620,130
7	4-FOOT SEWER MANHOLE	45	EA.	\$ 6,500	\$ 292,500
8	CONNECTION TO EXISTING MANHOLE	3	EA.	\$ 1,850	\$ 5,550
BUILDING					
5	PRE-CAST BUILDING (14' X 20')	1	L.S.	\$ 85,000	\$ 85,000
6	FOUNDATION	1	L.S.	\$ 15,000	\$ 15,000
7	HVAC	1	L.S.	\$ 10,000	\$ 10,000
8	EMERGENCY GENERATOR	1	L.S.	\$ 60,750	\$ 60,750
9	3-PHASE POWER UPGRADE	1	L.S.	\$ 48,000	\$ 48,000
PUMP STATION					
10	SUBMERSIBLE PUMP PACKAGE W/ CONTROLS	1	L.S.	\$ 447,000	\$ 447,000
11	12' DIAMETER X 25' TALL WET WELL W/ HDPE LINER	1	L.S.	\$ 165,000	\$ 165,000
12	6' X 8' X 6.5' VALVE VAULT	1	L.S.	\$ 46,000	\$ 46,000
13	VALVES AND SITE PIPING	1	L.S.	\$ 20,000	\$ 20,000
14	ELECTRICAL INSTALLATION (GENERAL WIRING/LIGHTING/PANELS)	1	L.S.	\$ 45,500	\$ 45,500
FORCEMAIN					
15	12" FORCEMAIN INSTALLATION ¹	11365	L.F.	\$ 100	\$ 1,136,500
16	AIR RELEASE/VACUUM VALVE STATION	5	EA.	\$ 6,400	\$ 32,000
SANITARY SEWER (GRAVITY INTERCEPTOR DOWNSTREAM OF FORCEMAIN)					
17	15" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	1359	L.F.	\$ 200	\$ 271,700
18	15" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	732	L.F.	\$ 250	\$ 182,875
19	4-FOOT SEWER MANHOLE	7	EA.	\$ 6,500	\$ 45,500
20	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,850	\$ 1,850
21	NORTH ATHERTON CROSSING (BORE AND JACK)	1	EA.	\$ 380,500	\$ 380,500
SURFACING AND RESTORATION					
22	VEGETATIVE RESTORATION	18725	L.F.	\$ 10	\$ 187,250
23	IMPROVED SURFACE	500	L.F.	\$ 100	\$ 50,000
24	MUNICIPAL STREET	4600	L.F.	\$ 85	\$ 391,000
MISCELLANEOUS					
25	UNCLASSIFIED EXCAVATION, UNMARKED/MISMARKED UTILITIES	1	L.S.	\$ 158,600	\$ 158,600
SUBTOTAL FOR CONSTRUCTION					\$ 6,138,854
SOFT COSTS					
26	ENGINEERING, LEGAL, ADMINISTRATIVE	1	L.S.	\$ 736,700	\$ 736,700
PROJECT SUBTOTAL					\$ 6,875,554
CONTINGENCY (15%)					\$ 1,031,333
TOTAL PROJECT COST					\$ 7,907,000

¹Cost per linear foot similar to Meeks Lane Alternative C.

ANNUAL O&M COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
1	ELECTRICITY (PROPOSED PUMP STATION)	1	L.S.	\$ 30,865	\$ 30,865
2	LABOR - SYSTEM OPERATOR	365	HOUR	\$ 50	\$ 18,250
ESTIMATED YEARLY O&M COST					\$ 49,115

ANNUAL O&M	TOTAL PRESENT WORTH
PRESENT WORTH	
\$ 765,666	\$ 8,673,000

APPENDIX

C

Pennsylvania Natural
Diversity Inventory (PNDI)
Correspondence



1. PROJECT INFORMATION

Project Name: **UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663**

Date of Review: **4/13/2020 03:10:28 PM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Area: **24.31 acres**

County(s): **Centre**

Township/Municipality(s): **PATTON**

ZIP Code: **16803; 16870**

Quadrangle Name(s): **JULIAN**

Watersheds HUC 8: **Bald Eagle; Upper Juniata**

Watersheds HUC 12: **Beaver Branch; Big Hollow; Buffalo Run**

Decimal Degrees: **40.807331, -77.948340**

Degrees Minutes Seconds: **40° 48' 26.3927" N, 77° 56' 54.250" W**

2. SEARCH RESULTS

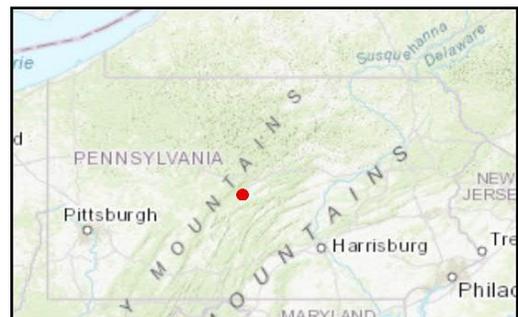
Agency	Results	Response
PA Game Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663

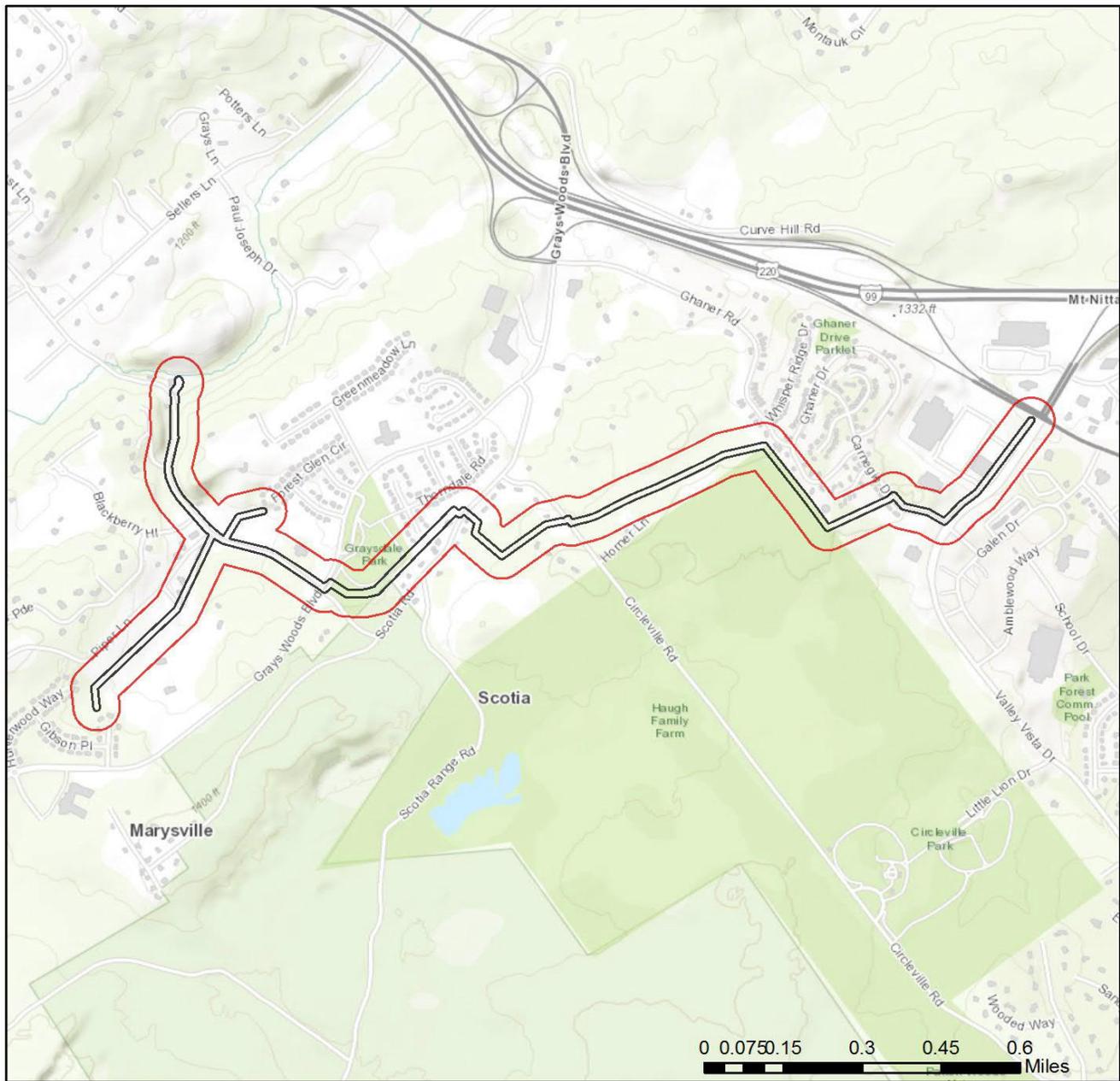


- Project Boundary
- Buffered Project Boundary



Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663



- Project Boundary
- Buffered Project Boundary



Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
 Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS,

RESPONSE TO QUESTION(S) ASKED

Q1: Will the entire project occur within an existing building, parking lot, driveway, road, street, or maintained (periodically mowed) lawn?

Your answer is: Unknown

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PGC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Podilymbus podiceps	Pied-billed Grebe	Special Concern Species*

PA Department of Conservation and Natural Resources

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

DCNR Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here:

<https://conservationexplorer.dcnr.pa.gov/content/survey-protocols>)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Sensitive Species**		Special Concern Species*	Special Concern Species*	One flight from March-April in the south, May-June in the north
Erynnis persius	Persius Duskywing	Special Concern Species*	Special Concern Species*	One brood from April-June.
Sensitive Species**		Special Concern Species*	Special Concern Species*	Flowers April - July

PA Fish and Boat Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service

RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email* the following information to the agency(s). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies. Alternatively, applicants may email or mail their project materials (see AGENCY CONTACT INFORMATION).

Check-list of Minimum Materials to be submitted:

___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

___ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

In addition to the materials listed above, USFWS REQUIRES the following

___ **SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.

___ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

___ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.



5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

PA Fish and Boat Commission

Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Shelby M. McVey
Company/Business Name: Herbert, Rowland and Grubic, Inc.
Address: 2568 Park Center Boulevard
City, State, Zip: State College, PA 6801
Phone: (814) 238-7117 Fax: ()
Email: smcvey@hrg-inc.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Shelby M. McVey
applicant/project proponent signature

04/13/2020

date



May 20, 2020

Mr. Evan Newcomer
Herbert, Rowland & Grubic, Inc.
2568 Park Center Boulevard
State College, Pennsylvania 16801
enewcomer@hrg-inc.com

PNDI Receipt File: *project_receipt_uaja_meeks_lane_pump_stat_708016_FINAL_1.pdf*
Re: UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663
Patton Township, Centre County, Pennsylvania

Dear Mr. Newcomer,

Thank you for submitting Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt *project_receipt_uaja_meeks_lane_pump_stat_708016_FINAL_1.pdf* for review. The Pennsylvania Game Commission (PGC) screened this project for potential impacts to species and resources of concern under PGC responsibility, which includes birds and mammals only.

No Impact Anticipated

PNDI records indicate species or resources of concern are located within the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, the PGC has determined that no impact is likely. Therefore, no further coordination with the PGC will be necessary for this project at this time.

However, it appears that portions of this project area located adjacent to **State Game Lands No. 176**. Please contact Mr. William Dingman, Land Management Supervisor, at 570-398-4744 to discuss the project activities and coordinate obtaining the necessary approvals if your project will impact State Game Lands. It is recommended that you coordinate with Game Commission Staff early in your project planning process.

This response represents the most up-to-date summary of the PNDI data files and is valid for two (2) years from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on site. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered.

Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). If the proposed work has not changed and no additional information concerning

listed species is found, the project will be cleared for PNDI requirements under this agency for two additional years.

This finding applies to impacts to birds and mammals only. To complete your review of state and federally-listed threatened and endangered species and species of special concern, please be sure that the U.S. Fish and Wildlife Service, the PA Department of Conservation and Natural Resources, and/or the PA Fish and Boat Commission have been contacted regarding this project as directed by the online PNDI ER Tool found at www.naturalheritage.state.pa.us.

Sincerely,



Olivia A. Braun
Environmental Planner
Division of Environmental Planning & Habitat Protection
Bureau of Wildlife Habitat Management
Phone: 717-787-4250, Extension 73128
Fax: 717-787-6957
E-mail: Olbraun@pa.gov

A PNHP Partner



OAB/oab

cc: Mitchell
Dingman
Librandi Mumma
File

BUREAU OF FORESTRY

April 20, 2020

PNDI Number: 708016

Version: Final_1; 4/13/20

Evan Newcomer

Herbert, Rowland & Grubic, Inc.

2568 Park Center Boulevard

State College, PA 16801

Email: enewcomer@hrg-inc.com (hard copy will not follow)

Re: UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663

Patton, Centre, PA

Dear Mr. Newcomer,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number 708016 (Final_1) for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

Potential Impact Anticipated

PNDI records indicate species or resources under DCNR's jurisdiction are located in the project vicinity. Based on a detailed PNDI review, DCNR determined potential impacts to the following threatened or endangered species or species of special concern.

Scientific Name	Common Name	PA Current Status	PA Proposed Status
<i>Scirpus ancistrochaetus</i>	Northeastern Bulrush	Endangered	Threatened
<i>Bouteloua curtipendula</i>	Tall Gramma	Threatened	Threatened
<i>Potamogeton oakesianus</i>	Oakes' Pondweed	Special Concern	Endangered
<i>Juncus debilis</i>	Weak Rush	Special Concern	Threatened
<i>Lithospermum canescens</i>	Hoary Puccoon	Special Concern	Threatened
<i>Cuscuta polygonorum</i>	Smartweed Dodder	Special Concern	Threatened
<i>Prunus alleghaniensis</i>	Alleghany Plum	Special Concern	Threatened
<i>Lupinus perennis</i>	Lupine	Special Concern	Special Concern

Survey Request

DCNR requests a survey for the following species:

- ***Scirpus ancistrochaetus* (Northeastern Bulrush):** documented in/around gray's woods park; suitable habitat includes vernal ponds and mudholes with fluctuating water levels; Fruits in July; flower structures with achenes through January
- ***Bouteloua curtipendula* (Tall Gramma):** documented in local calcareous limestone outcroppings; suitable habitat includes serpentine barrens, dry calcareous clearings and other dry, rocky or sandy sites; Flowers August – September
- ***Potamogeton oakesianus* (Oakes' Pondweed):** documented in Marysville Ponds, Scotia Barrens area; suitable habitat includes ponds and lakes; Flowers summer – fall
- ***Juncus debilis* (Weak Rush):** documented in Scotia Barrens area; suitable habitat includes riverbanks, mudflats, shores, and ditches; Fruits late July – early August persisting into fall

- ***Lithospermum canescens* (Hoary Puccoon)**: documented in Scotia Barrens area; suitable habitat includes rivers bluffs, dry rocky hillsides and barrens; flowers late April – May
 - ***Cuscuta polygonorum* (Smartweed Dodder)**: documented in Scotia Barrens area; parasitic on *Polygonorum spp.* and other plants of moist shores and riverbanks
 - ***Prunus alleghaniensis* (Alleghany Plum)**: documented in Scotia Barrens area; suitable habitat includes rocky bluffs, shale barrens, roadsides, and floodplains; Flower April – early June; fruits August
 - ***Lupinus perennis* (Lupine)**: documented in Scotia Barrens area; suitable habitat includes alluvial sand and gravel bars, open fields, woods edges and roadsides in sandy soils; flowers April – July
- ✓ A botanical survey for the above species should be conducted by a qualified botanist at the appropriate time of year. Please submit the resulting report to our office for review. Contact our office prior to the survey for detailed information about the species or for a list of qualified surveyors.
- ✓ **Your botanist should carefully review the new DCNR Botanical Survey Protocols available at <https://conservationexplorer.dcnr.pa.gov/content/survey-protocols>.** These protocols are recommended to ensure that all necessary information is collected and that survey reports are prepared properly. It is the expectation of DCNR that these protocols will be followed when conducting surveys for species under our jurisdiction.
- ✓ All target and non-target state-listed species found during the botanical survey should be reported to our office. **Please submit a completed Botanical Field Survey Form for each occurrence or population identified: <http://www.gis.dcnr.state.pa.us/PNDI/2015%20Field%20Survey%20Form.pdf>.** Mitigation measures and monitoring may be requested if state-listed species are found on or adjacent to the site.
- ✓ If preferred habitat does not exist on site, a survey may not be necessary. Please submit a habitat assessment report which describes the current land cover, habitat types, and species found on site.

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter and a permit has not been acquired, please resubmit the project to this agency as an “Update” (including an updated PNDI receipt, project narrative, description of project changes and accurate map). As a reminder, this finding applies to potential impacts under DCNR’s jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth’s other resource agencies for environmental review.

Should you have any questions or concerns, please contact Alexander Dogonniuck, Ecological Information Specialist, by phone (717-783-3913) or via email (c-adogonni@pa.gov).

Sincerely



Greg Podnieszinski, Section Chief
Natural Heritage Section

conserve

sustain

enjoy

BUREAU OF FORESTRY

October 1, 2020

PNDI Number: 708016
Version: Final_1; 4/13/20

Evan Newcomer
Herbert, Rowland & Grubic, Inc.
2568 Park Center Boulevard
State College, PA 16801
Email: enewcomer@hrg-inc.com (hard copy will not follow)

Re: UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663
Patton, Centre, PA

Dear Mr. Newcomer,

Thank you for the submission of your field survey for Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number 708016 (Final_1) for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

No Impact Anticipated per Survey

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. DCNR requested a botanical survey for the following species on April 20, 2020:

Scientific Name	Common Name	PA Current Status	PA Proposed Status
<i>Scirpus ancistrochaetus</i>	Northeastern Bulrush	Endangered	Threatened
<i>Bouteloua curtipendula</i>	Tall Gramma	Threatened	Threatened
<i>Potamogeton oakesianus</i>	Oakes' Pondweed	Special Concern	Endangered
<i>Juncus debilis</i>	Weak Rush	Special Concern	Threatened
<i>Lithospermum canescens</i>	Hoary Puccoon	Special Concern	Threatened
<i>Cuscuta polygonorum</i>	Smartweed Dodder	Special Concern	Threatened
<i>Prunus alleghaniensis</i>	Alleghany Plum	Special Concern	Threatened
<i>Lupinus perennis</i>	Lupine	Special Concern	Special Concern

A survey was conducted by Joseph J. Wilson of Wilson Ecological Consulting, LLC during June through late August, 2020. No species of special concern were found on the project site. Therefore, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project.

Recommended Actions:

- Design the project to minimize the area of disturbance to the fullest extent that would allow for construction. This will help to lessen the area of soil and vegetation disturbance associated with this project.
- Clean boot treads, construction equipment, and vehicles thoroughly (especially the undercarriage and wheels) before they are brought on site. This will remove invasive plant seeds and invasive earthworms/cocoons that may have been picked up at other sites.
- Do not transport unsterilized leaves, mulch, compost, or soil to the site from another location.

- Do not use seed mixes that include invasive species. Please also use weed-free straw or hay mixes. More information about invasive species in Pennsylvania can be found at the following link:
<http://www.dcnr.pa.gov/Conservation/WildPlants/InvasivePlants/Pages/default.aspx>
- Use habitat appropriate seed mixes. For example, when reseeding along a waterway, utilize a riparian seed mix. The Bureau of Forestry Planting & Seeding Guidelines can be found here for recommendations:
http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr_20031083.pdf
- Report occurrences of invasive species to iMapInvasives at <https://www.imapinvasives.org/>. Focus on large infestations and species that are not yet well established in the region or in Pennsylvania (<https://www.paimapinvasives.org/be-on-the-lookout>).

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

Should you have any questions or concerns, please contact Alexander Dogonniuck, Ecological Information Specialist, by phone (717-783-3913) or via email (c-adogonni@pa.gov).

Sincerely



Greg Podnieszinski, Section Chief
Natural Heritage Section



Pennsylvania Fish & Boat Commission

Division of Environmental Services
Natural Diversity Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823
814-359-5237

April 28, 2020

IN REPLY REFER TO
SIR# 52855

Herbert Rowland & Grubic, Inc.
Evan Newcomer
2568 Park Center Blvd.
State College, Pennsylvania 16801

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 708016_1
UAJA Meeks Lane Pump Station
CENTRE County: Patton Township

Dear Evan Newcomer:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search “potential conflict” or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

Eastern Spadefoot (*Scaphiopus holbrookii*, Threatened)

The Eastern Spadefoot is an elusive toad species with a rather unusual life history. This toad species prefers sandy or other soft loamy, pliable soils that it uses for burrowing. Unlike the American Toad and Fowler’s Toad, the Eastern Spadefoot is a sporadic breeder, breeding in temporary pools only when the proper environmental conditions develop (steep barometric drops accompanied by heavy rainfall). Breeding may span several years (up to six) before the proper conditions take place. Eggs hatch in as little as two days and tadpole larvae may fully metamorphose within two weeks. Eastern Spadefoot are threatened by habitat alteration and pollution.

If wetlands, vernal pools, open water areas, streams, or ponds or the area within 300ft of these water features are to be disturbed from the project activity, we will need to conduct a more thorough evaluation of the potential adverse impacts to the species of concern. Items **such as:** basic project plans, project narrative, general habitat descriptions, and color photographs keyed to a site map or diagram of the project area, and wetlands identification and delineation would expedite our review process. Pending the review of information, a habitat assessment or survey targeting the presence of the

Our Mission:

www.fish.state.pa.us

To protect, conserve and enhance the Commonwealth’s aquatic resources and provide fishing and boating opportunities.

species of concern may be warranted.

However, if wetlands, vernal pools, or water bodies or the area within 300ft of these water features are not to be disturbed in any way by the proposed activity, and provided that best management practices are employed and strict erosion and sedimentation measures are maintained, I do not foresee any adverse impacts to the Eastern Spadefoot (*Scaphiopus holbrookii*) from the proposed project.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 and refer to the SIR # 52855. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent "C" at the beginning.

Christopher A. Urban, Chief
Natural Diversity Section

CAU/KDG/dn



Pennsylvania Fish & Boat Commission

Division of Environmental Services
Natural Diversity Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823
814-359-5237

November 3, 2021

IN REPLY REFER TO
SIR# 52855

SKELLY AND LOY, INC.
Andrew Brookens
449 Eisenhower Boulevard, Suite 300
Harrisburg, Pennsylvania 17111

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search Nos. 708016_1; 736969_1; 737980_1
UAJA Sewer Improvements Planning Project
CENTRE County: Patton Township

Dear Mr. Brookens:

In response to our initial review request regarding the above-mentioned projects, you conducted a assessment of the proposed project area and alternatives for potential habitats of the Eastern Spadefoot (*Scaphiopus holbrookii*, Threatened). You determined that portions of the proposed route included potential burrowing and foraging habitats for the Eastern Spadefoot.

Given the proximity to a nearby extant population of the species of concern listed above, the site will need to be investigated further for potential habitat of the species and design of avoidance measures. Please contact Kathy Gipe at 814-359-5186 at your earliest convenience to set up a field view to look at the project area and review the site plans.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 and refer to the SIR # 52855. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Our Mission:

www.fish.state.pa.us

To protect, conserve and enhance the Commonwealth's aquatic resources and provide fishing and boating opportunities.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent "C" at the beginning.

Christopher A. Urban, Chief
Natural Diversity Section

CAU/KDG/dn



Pennsylvania Fish & Boat Commission

Division of Environmental Services
Natural Diversity Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823
814-359-5237

November 29, 2021

IN REPLY REFER TO
SIR# 52855

SKELLY AND LOY, INC.
Andrew Brookens
449 Eisenhower Boulevard
Suite 300
Harrisburg, Pennsylvania 17111

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search Nos. 708016_1; 736969_1; 737980_1
UAJA Meeks Lane Pump Station
CENTRE County: Patton Township

Dear Mr. Brookens:

In previous correspondence, given that the Eastern Spadefoot (*Scaphiopus holbrookii*, PA Threatened) are known from the watershed and potentially in the project area, a habitat evaluation of the project area was requested by the Commission. As a qualified/recognized PA Eastern Spadefoot surveyor, you conducted a habitat assessment in the proposed project area. You found that while no suitable critical breeding habitat occurred within the project footprint, much of the proposed line would be going through potential foraging and burrowing habitat. Kathy Gipe and I met you onsite to review these findings and we concurred with your evaluation.

The proposed gravity lines and force mains may require excavation and ground disturbance that could affect areas utilized by Eastern Spadefoot from Carnegie Drive to Circleville Road (see Figure A below). In order to avoid disturbance to Eastern Spadefoot that may be occupying this area, I recommend the following avoidance measures:

Section 1 Carnegie Drive to Ghaner Road (pink on Figure A)

I recommend that the project construction be conducted between November 1 through March 31 during the inactive period of the species of concern. Additionally, because of the proximity to known Eastern Spadefoot habitats,

1. An Eastern Spadefoot environmental sensitivity briefing package will be prepared and provided to all construction and inspection personnel associated with the remediation project. The briefing package will include photographs of the species for recognition during the course of the project as well as contingency procedures should the species be encountered by personnel.

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2. ***Regardless of the time of year***, a herpetologist that is qualified/recognized and adequately permitted (current Scientific Collectors' Permit, Threatened and Endangered Species Permit) to survey for the Eastern Spadefoot is to be on-site to clear the area of the Eastern Spadefoot and other herpetofauna. All areas to be permanently or temporarily impacted, including staging areas, should be investigated/cleared before any work activities are to commence and during excavation. If any Eastern Spadefoot are found during the surveys, the herpetologist is to move the animal no farther than necessary out of the immediate project area (maximum of 100 meters). PFBC will be notified within 48 hours of discovery of Eastern Spadefoot.
3. If construction must occur outside of the winter time span (April 1 through October 31), then after the clearance surveys are conducted, silt fencing (silt-sock barriers) shall be placed around all work/staging areas so that any transient spadefoot or herpetofauna do not re-enter the project area. Barriers are to stay in place until work is completed and final grading occurs. Straw hay bales can be used as temporary blockages for transient areas (in/out of work space).
 - a. Daily inspections of the barrier fencing will occur by the environmental inspector. If a breach of the barrier fencing is found or Eastern Spadefoot is encountered, construction activities will cease and the qualified/recognized spadefoot surveyor will clear the area (see #2 above).
 - b. A rain-gauge is to be installed and monitored on-site. If greater than 1.5-inch rain occurs within a 24 hour period, work will cease and clearance surveys by the qualified surveyor shall commence (see#2 above).
4. During the construction period, PFBC personnel may communicate with the on-site biologist and may visit the site area periodically to view the progression of the project and answer any questions or concerns that may arise. For safety purposes, PFBC personnel will register with the on-site manager upon entering the construction area.
5. Upon completion of the survey work, the qualified surveyor is to forward a report showing the surveyor's results to this office for our review and comment. Reports should include photographs and maps of appropriate suitable habitat. Threatened and endangered species observed in the survey should be photographed, aged, sexed, measured as to their size, and areas they were observed/captured should be mapped accordingly. The surveyor should also report other herpetofauna seen while conducting the surveys.

Section 2 Ghaner Road to Circleville Road (blue on Figure A)

I recommend that the project construction be conducted between November 1 through March 31 during the inactive period of the species of concern. *If construction must occur outside of this time span (April 1 through October 31)*, to avoid and minimize disturbance to the Eastern Spadefoot, then:

1. An Eastern Spadefoot environmental sensitivity briefing package will be prepared and provided to all construction and inspection personnel associated with the remediation project. The briefing package will include photographs of the species for recognition during the course of the project as well as contingency procedures should the species be encountered by personnel.
2. A herpetologist that is qualified/recognized and adequately permitted (current Scientific Collectors' Permit, Threatened and Endangered Species Permit) to survey for the Eastern Spadefoot is to be on-site to clear the area of the Eastern Spadefoot and other herpetofauna. All areas to be permanently or temporarily impacted, including staging areas, should be investigated/cleared before any work activities are to commence. If any Eastern Spadefoot are found during the surveys, the herpetologist is to move the animal no farther than necessary out of the immediate project area (maximum of 100 meters). PFBC will be notified within 48 hours of discovery of Eastern Spadefoot.
3. After the clearance surveys are conducted, silt fencing (silt-sock barriers) shall be placed around all work/staging areas so that any transient spadefoot or herpetofauna do not re-enter the project area. Barriers are to stay in place until work is completed and final grading occurs. Straw hay bales can be used as temporary blockages for transient areas (in/out of work space).

4. Daily inspections of the barrier fencing will occur by the environmental inspector. If a breach of the barrier fencing is found or Eastern Spadefoot is encountered, construction activities will cease and the qualified/recognized spadefoot surveyor will clear the area (see #2 above).
5. A rain-gauge is to be installed and monitored on-site. If greater than 1.5-inch rain occurs within a 24 hour period, work will cease and clearance surveys by the qualified surveyor shall commence (see#2 above).
6. During the construction period, PFBC personnel may communicate with the on-site biologist and may visit the site area periodically to view the progression of the project and answer any questions or concerns that may arise. For safety purposes, PFBC personnel will register with the on-site manager upon entering the construction area.
7. Upon completion of the survey work, the qualified surveyor is to forward a report showing the surveyor's results to this office for our review and comment. Reports should include photographs and maps of appropriate suitable habitat. Threatened and endangered species observed in the survey should be photographed, aged, sexed, measured as to their size, and areas they were observed/captured should be mapped accordingly. The surveyor should also report other herpetofauna seen while conducting the surveys.

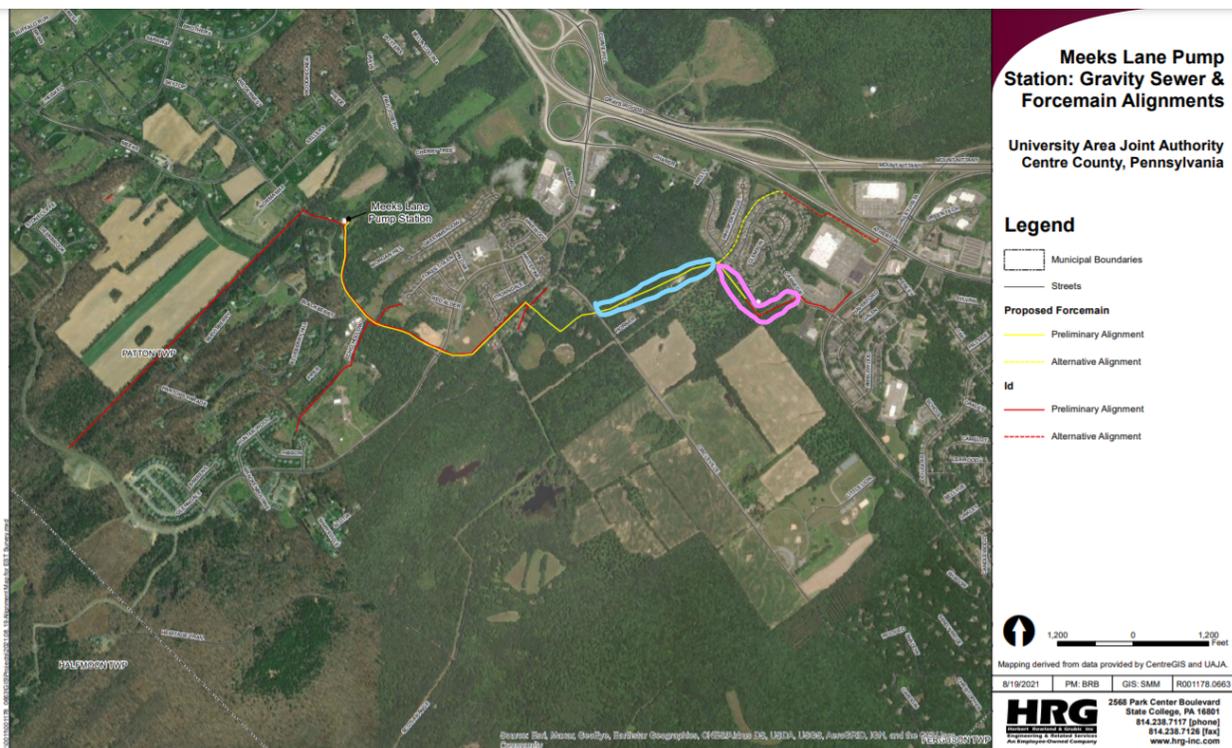


Figure A. Areas drawn to depict project implementation of Eastern Spadefoot avoidance measures. Pink for Avoidance Measure Section 1 and blue for Avoidance Measure Section 2.

If these recommendations are implemented, best management practices are employed and strict erosion and sedimentation controls are used, then I do not foresee the proposed project resulting in adverse impacts to the Eastern Spadefoot or any other rare or protected species under the PA Fish and Boat Commission's jurisdiction.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or

proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 and refer to the SIR # 52855. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent "C" at the beginning.

Christopher A. Urban, Chief
Natural Diversity Section

CAU/KDG/dn

1. PROJECT INFORMATION

Project Name: **UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663**

Date of Review: **3/24/2022 08:58:50 AM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Area: **24.31 acres**

County(s): **Centre**

Township/Municipality(s): **PATTON TOWNSHIP**

ZIP Code:

Quadrangle Name(s): **JULIAN**

Watersheds HUC 8: **Bald Eagle; Upper Juniata**

Watersheds HUC 12: **Beaver Branch; Big Hollow; Buffalo Run**

Decimal Degrees: **40.807331, -77.948340**

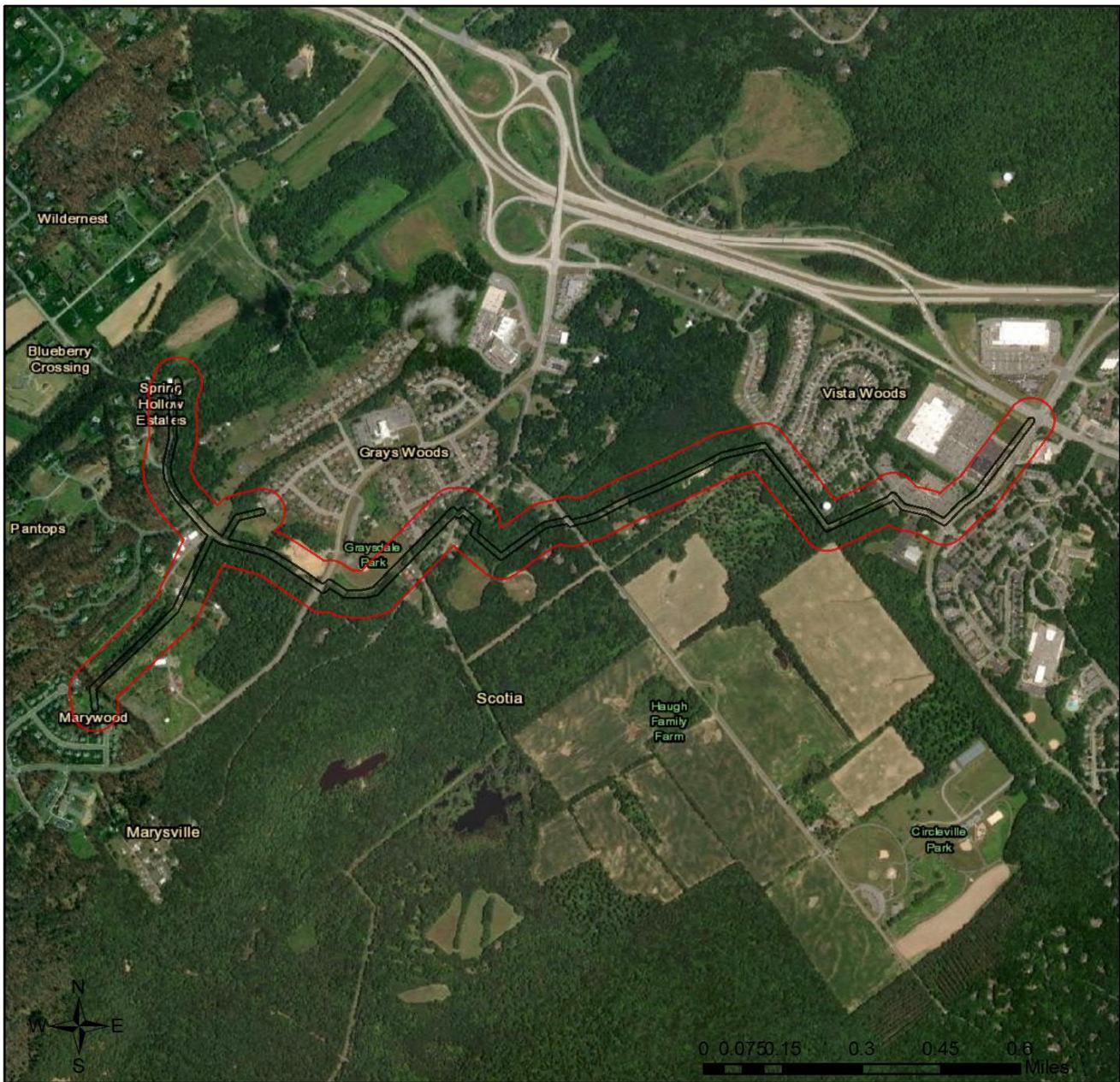
Degrees Minutes Seconds: **40° 48' 26.3927" N, 77° 56' 54.250" W**

2. SEARCH RESULTS

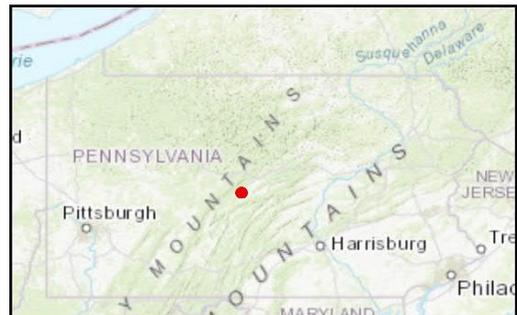
Agency	Results	Response
PA Game Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663

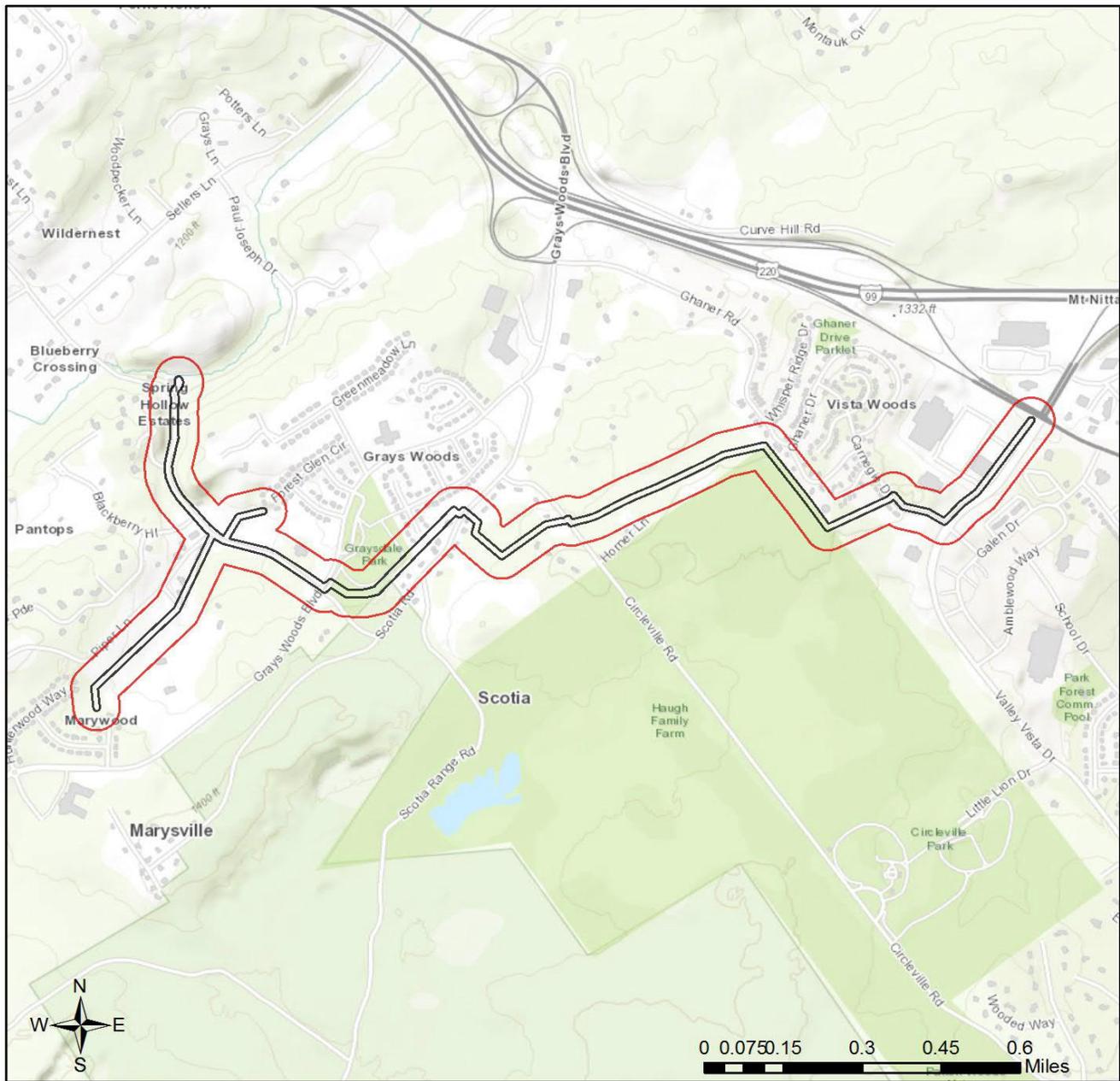


- Project Boundary
- Buffered Project Boundary



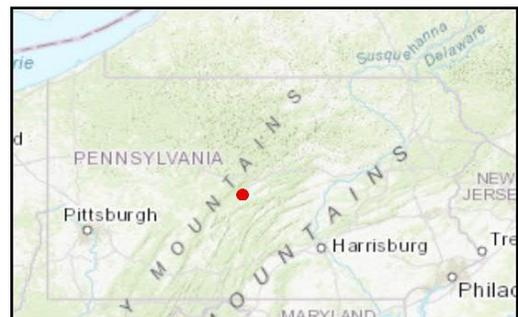
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China

UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663



- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, Garmin, Intemap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



RESPONSE TO QUESTION(S) ASKED

Q1: Will the entire project occur within an existing building, parking lot, driveway, road, street, or maintained (periodically mowed) lawn?

Your answer is: Unknown

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PGC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Podilymbus podiceps	Pied-billed Grebe	Special Concern Species*

PA Department of Conservation and Natural Resources

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

DCNR Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here:

<https://conservationexplorer.dcnr.pa.gov/content/survey-protocols>)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Sensitive Species**		Special Concern Species*	Special Concern Species*	One flight from March-April in the south, May-June in the north
Erynnis persius	Persius Duskywing	Special Concern Species*	Special Concern Species*	One brood from April-June.
Sensitive Species**		Special Concern Species*	Special Concern Species*	Flowers April - July

PA Fish and Boat Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service

RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).

*If information was requested by USFWS, applicants must email, or mail, project information to IR1_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

Check-list of Minimum Materials to be submitted:

___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

___ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

In addition to the materials listed above, USFWS REQUIRES the following

___ **SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.

___ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

___ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.



5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

PA Fish and Boat Commission

Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Shelby M. McVey, PE
Company/Business Name: Herbert, Rowland & Grubic, Inc.
Address: 2568 Park Center Boulevard
City, State, Zip: State College, PA 16801
Phone: (814) 238-7117 Fax: ()
Email: smcvey@hrg-inc.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change. I agree to re-do the online environmental review.

Shelby M. McVey
applicant/project proponent signature

March, 24, 2022
date



April 4, 2022

Mr. Evan Newcomer
Herbert, Rowland & Grubic, Inc.
2568 Park Center Boulevard
State College, Pennsylvania 16801
enewcomer@hrg-inc.com

PNDI Receipt File: *project_receipt_uaja_meeks_lane_pump_stat_708016_FINAL_2.pdf*
Re: UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663
Patton Township, Centre County, Pennsylvania

Dear Mr. Newcomer,

Thank you for submitting Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt *project_receipt_uaja_meeks_lane_pump_stat_708016_FINAL_2.pdf* for review. The Pennsylvania Game Commission (PGC) screened this project for potential impacts to species and resources of concern under PGC responsibility, which includes birds and mammals only.

No Impact Anticipated

PNDI records indicate species or resources of concern are located within the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, the PGC has determined that no impact is likely. Therefore, no further coordination with the PGC will be necessary for this project at this time.

However, it appears that portions of this project area located adjacent to **State Game Lands No. 176**. Please contact Mr. Jeffrey Mock, Land Management Supervisor, at 570-398-4744 to discuss the project activities and coordinate obtaining the necessary approvals if your project will impact State Game Lands. It is recommended that you coordinate with Game Commission Staff early in your project planning process.

This response represents the most up-to-date summary of the PNDI data files and is valid for two (2) years from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on site. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered.

Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). If the proposed work has not changed and no additional information concerning listed species is found, the project will be cleared for PNDI requirements under this agency for two additional years.

This finding applies to impacts to birds and mammals only. To complete your review of state and federally-listed threatened and endangered species and species of special concern, please be sure that the U.S. Fish and Wildlife Service, the PA Department of Conservation and Natural Resources, and/or the PA Fish and Boat Commission have been contacted regarding this project as directed by the online PNDI ER Tool found at www.naturalheritage.state.pa.us.

Sincerely,



Halie Parker
Wildlife Biologist / Environmental Review
Bureau of Wildlife Management
Phone: 717-787-4250, Extension 73421
Fax: 717-787-6957
E-mail: halparker@pa.gov

A PNHP Partner



Pennsylvania Natural Heritage Program

HAP/hap

cc: Carlini
Mock

BUREAU OF FORESTRY

April 5, 2022

PNDI Number: 708016
Version: Final_2; 3/24/22

Evan Newcomer
Herbert, Rowland & Grubic, Inc.
2568 Park Center Boulevard
State College, PA 16801
Email: enewcomer@hrg-inc.com (hard copy will not follow)

Re: UAJA Meek Lane Pump Station Act 537 Plan Special Study
Patton Township, Centre County, PA

Dear Evan Newcomer,

Thank you for the submission of your field survey for Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number 708016 (Final_2) for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

No Impact Anticipated per Survey

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. DCNR requested a botanical survey for the following species on April 20, 2020:

Scientific Name	Common Name	PA Current Status	PA Proposed Status
<i>Scirpus ancistrochaetus</i>	Northeastern Bulrush	Endangered	Threatened
<i>Bouteloua curtipendula</i>	Tall Gramma	Threatened	Threatened
<i>Potamogeton oakesianus</i>	Oakes's Pondweed	Special Concern	Endangered
<i>Juncus debilis</i>	Weak Rush	Special Concern	Threatened
<i>Lithospermum canescens</i>	Hoary Puccoon	Special Concern	Threatened
<i>Cuscuta polygonorum</i>	Smartweed Dodder	Special Concern	Threatened
<i>Prunus alleghaniensis</i>	Alleghany Plum	Special Concern	Threatened
<i>Lupinus perennis</i>	Lupine	Special Concern	Special Concern

A survey was conducted by Joseph J. Wilson of Wilson Ecological Consulting, LLC during June through late August, 2020. No species of special concern were found on the project site. Therefore, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project.

Recommended Best Management Practices:

- Use a conservative approach to project design that minimizes permanent and temporary disturbances to soil and native vegetation. This will conserve habitat and limit opportunities for invasive plants.
- Clean boot treads, tools, construction equipment, and vehicles thoroughly (especially the undercarriage and wheels) before they are brought on site. This will remove invasive plant seeds and invasive earthworms/cocoons that may have been picked up at other worksites.

- Use clean project materials (e.g., weed-free straw) or materials native to the worksite to avoid introducing invasive species from contaminated sources.
- Revegetate or cover disturbed soil and stockpiles quickly to discourage the germination of invasive plants. Implement proper erosion control practices to stabilize soil and reduce runoff.
- Do not use seed mixes that include invasive species. More information about invasive plants in Pennsylvania can be found at the following link: <http://www.dcnr.pa.gov/Conservation/WildPlants/InvasivePlants/Pages/default.aspx>
- Use habitat appropriate seed mixes. For example, use a riparian seed mix when reseeding along a waterway. The Bureau of Forestry Planting & Seeding Guidelines can be found at the following link for recommendations: http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr_20031083.pdf
- Use native plants for landscaping, revegetation, and stormwater management. Do not use nonnative invasive species. Reduce the area of lawn and impermeable surfaces to the fullest extent practicable in favor of native gardens or habitat restoration (e.g., forest, meadow, wetland, etc.). More information about lawn conversion can be found at the following link: <https://www.dcnr.pa.gov/Conservation/Water/LawnConversion/Pages/default.aspx>

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

Should you have any questions or concerns, please contact Alexander Dogonniuck, Ecological Information Specialist, by phone (717-783-3913) or via email (c-adogonni@pa.gov).

Sincerely,



Greg Podnieszinski, Section Chief
Natural Heritage Section

conserve

sustain

enjoy

1. PROJECT INFORMATION

Project Name: **UAJA Meeks Lane PS Special Study - Gray's Woods Buildout Conveyance Alternative - R001178.0663**

Date of Review: **6/25/2021 02:43:31 PM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Area: **9.03 acres**

County(s): **Centre**

Township/Municipality(s): **PATTON TOWNSHIP**

ZIP Code:

Quadrangle Name(s): **JULIAN**

Watersheds HUC 8: **Bald Eagle**

Watersheds HUC 12: **Buffalo Run**

Decimal Degrees: **40.809187, -77.961983**

Degrees Minutes Seconds: **40° 48' 33.715" N, 77° 57' 43.1374" W**

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

JAJA Meeks Lane PS Special Study - Gray's Woods Buildout Conveyance Alternative -

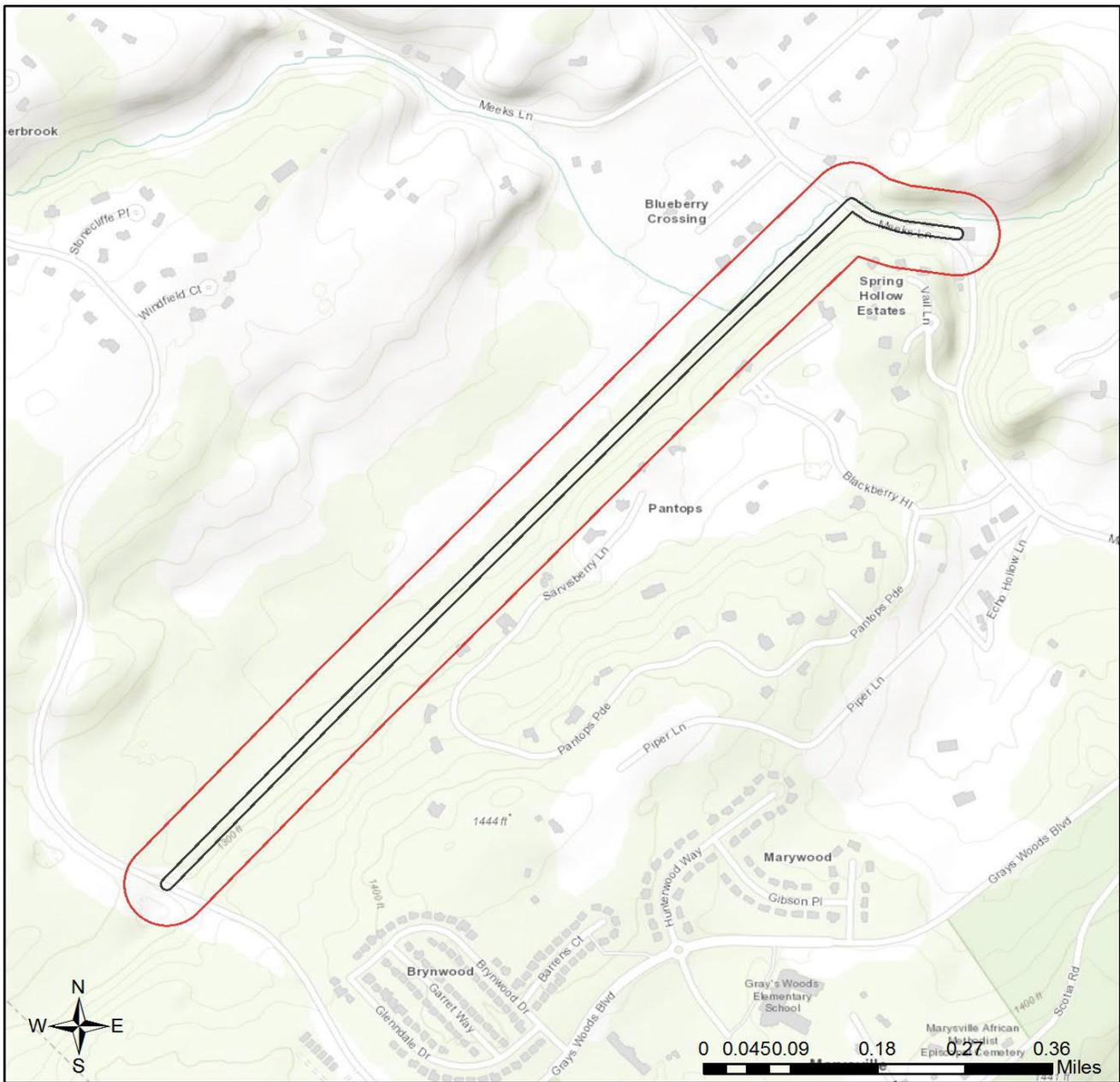


- Project Boundary
- Buffered Project Boundary



Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
 Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China

JAJA Meeks Lane PS Special Study - Gray's Woods Buildout Conveyance Alternative -



- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, Garmin, Intemap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



RESPONSE TO QUESTION(S) ASKED

Q1: Will the entire project occur within an existing building, parking lot, driveway, road, street, or maintained (periodically mowed) lawn?

Your answer is: Unknown

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

DCNR Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here:

<https://conservationexplorer.dcnr.pa.gov/content/survey-protocols>)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Sensitive Species**		Special Concern Species*	Special Concern Species*	One flight from March-April in the south, May-June in the north

PA Fish and Boat Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service

RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).

*If information was requested by USFWS, applicants must email, or mail, project information to IR1_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

Check-list of Minimum Materials to be submitted:

___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

___ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

In addition to the materials listed above, USFWS REQUIRES the following

___ **SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.

___ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

___ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

PA Fish and Boat Commission

Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Shelby M. McVey, E.I.T.
Company/Business Name: Herbert, Rowland and Grubic, Inc.
Address: 2568 Park Center Boulevard
City, State, Zip: State College, PA 16801
Phone: (814) 238-7117 Fax: ()
Email: smcvey@hrg-inc.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Shelby M. McVey

applicant/project proponent signature

June 25, 2021

date

BUREAU OF FORESTRY

June 30, 2021

PNDI Number: 736969
Version: Final_1; 6/25/21

Shelby McVey
Herbert, Rowland & Grubic, Inc.
2568 Park Center Boulevard
State College, PA 16801
Email: smcvey@hrg-inc.com (hard copy will not follow)

**Re: UAJA Meeks Lane PS Special Study – Gray’s Woods Buildout Conveyance Alternative – R001178.0663
Patton Township, Centre County, PA**

Dear Mr. McVey,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number **736969 (Final_1)** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR’s responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

No Impact Anticipated

PNDI records indicate species or resources under DCNR’s jurisdiction are located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project.

Recommended Actions:

- Clean boot treads, construction equipment, and vehicles thoroughly (especially the undercarriage and wheels) before they are brought on site. This will remove invasive plant seeds and invasive earthworms/cocoons that may have been picked up at other sites.
- Do not transport unsterilized leaves, mulch, compost, or soil to the site from another location.
- Revegetate or cover disturbed soil and soil stockpiles as soon as possible to discourage the germination of invasive plants. Implement proper erosion control practices to stabilize soil and reduce runoff.
- Do not use seed mixes that include invasive species. Please also use weed-free straw or hay mixes. More information about invasive species in Pennsylvania can be found at the following link:
<http://www.dcnr.pa.gov/Conservation/WildPlants/InvasivePlants/Pages/default.aspx>
- Use habitat appropriate seed mixes. For example, when reseeding along a waterway, utilize a riparian seed mix. The Bureau of Forestry Planting & Seeding Guidelines can be found here for recommendations:
http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr_20031083.pdf
- **Use native plants for landscaping, revegetation, and stormwater management. Do not use nonnative invasive species. Reduce the area of lawn and impermeable surfaces to the fullest extent practicable in favor of native gardens or native habitat restoration (e.g., forest, meadow, wetland, etc.).**
- Report occurrences of invasive species to iMapInvasives at <https://www.imapinvasives.org/>. Focus on large infestations and species that are not yet well established in the region or in Pennsylvania (<https://www.paimapinvasives.org/be-on-the-lookout>).

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

Should you have any questions or concerns, please contact Alexander Dogonniuck, Ecological Information Specialist, by phone (717-783-3913) or via email (c-adogonni@pa.gov).

Sincerely

A handwritten signature in cursive script that reads "Greg Podnieszinski". The signature is written in black ink on a light-colored background.

Greg Podnieszinski, Section Chief
Natural Heritage Section



Pennsylvania Fish & Boat Commission

Division of Environmental Services
Natural Diversity Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823
814-359-5237

July 7, 2021

IN REPLY REFER TO
SIR# 54732

Herbert, Rowland & Grubic, Inc.
Shelby McVey
2568 Park Center Boulevard
State College, Pennsylvania 16801

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 736969_1
UAJA Meeks Lane PS Special Study - Grays Woods Buildout Conveyance Alternative -
R001178.0663
CENTRE County: Patton Township**

Dear Shelby McVey:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search “potential conflict” or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

Eastern Spadefoot (*Scaphiopus holbrookii*, Threatened)

The Eastern Spadefoot is an elusive toad species with a rather unusual life history. This toad species prefers sandy or other soft loamy, pliable soils that it uses for burrowing. Unlike the American Toad and Fowler’s Toad, the Eastern Spadefoot is a sporadic breeder, breeding in temporary pools only when the proper environmental conditions develop (steep barometric drops accompanied by heavy rainfall). Breeding may span several years (up to six) before the proper conditions take place. Eggs hatch in as little as two days and tadpole larvae may fully metamorphose within two weeks. Eastern Spadefoot are threatened by habitat alteration and pollution.

Based on the review of this information and the proximity of the project to known element occurrences of the species of concern listed above, potential habitat could be present within the proposed disturbance area. Therefore, additional evaluations are necessary to confirm whether or not the project site contains habitat and to determine the potential for adverse impacts to this species. We request completion

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of a **habitat assessment** to characterize and determine if potential habitat exists within the vicinity of the proposed project area.

A qualified biologist, who possesses the necessary Scientific Collector's Permit and Threatened and Endangered Species Permits issued by the Pennsylvania Fish and Boat Commission, must conduct this habitat assessment. A list of biologists recognized as qualified by the Pennsylvania Fish and Boat Commission to perform this assessment is enclosed. Upon completion of the habitat assessment, the qualified biologist is to submit a summary report to this office for review and further consultation.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact me at curban@pa.gov or at 814-359-5113 and refer to the SIR # 54732. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive, flowing style.

Christopher A. Urban, Chief
Natural Diversity Section

CAU/dn

Enclosure



Pennsylvania Fish & Boat Commission

Division of Environmental Services
Natural Diversity Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823
814-359-5237

November 3, 2021

IN REPLY REFER TO
SIR# 52855

SKELLY AND LOY, INC.
Andrew Brookens
449 Eisenhower Boulevard, Suite 300
Harrisburg, Pennsylvania 17111

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search Nos. 708016_1; 736969_1; 737980_1
UAJA Sewer Improvements Planning Project
CENTRE County: Patton Township**

Dear Mr. Brookens:

In response to our initial review request regarding the above-mentioned projects, you conducted an assessment of the proposed project area and alternatives for potential habitats of the Eastern Spadefoot (*Scaphiopus holbrookii*, Threatened). You determined that portions of the proposed route included potential burrowing and foraging habitats for the Eastern Spadefoot.

Given the proximity to a nearby extant population of the species of concern listed above, the site will need to be investigated further for potential habitat of the species and design of avoidance measures. Please contact Kathy Gipe at 814-359-5186 at your earliest convenience to set up a field view to look at the project area and review the site plans.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 and refer to the SIR # 52855. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

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Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent initial "C".

Christopher A. Urban, Chief
Natural Diversity Section

CAU/KDG/dn



Pennsylvania Fish & Boat Commission

Division of Environmental Services
Natural Diversity Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823
814-359-5237

November 29, 2021

IN REPLY REFER TO
SIR# 52855

SKELLY AND LOY, INC.
Andrew Brookens
449 Eisenhower Boulevard
Suite 300
Harrisburg, Pennsylvania 17111

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search Nos. 708016_1; 736969_1; 737980_1
UAJA Meeks Lane Pump Station
CENTRE County: Patton Township**

Dear Mr. Brookens:

In previous correspondence, given that the Eastern Spadefoot (*Scaphiopus holbrookii*, PA Threatened) are known from the watershed and potentially in the project area, a habitat evaluation of the project area was requested by the Commission. As a qualified/recognized PA Eastern Spadefoot surveyor, you conducted a habitat assessment in the proposed project area. You found that while no suitable critical breeding habitat occurred within the project footprint, much of the proposed line would be going through potential foraging and burrowing habitat. Kathy Gipe and I met you onsite to review these findings and we concurred with your evaluation.

The proposed gravity lines and force mains may require excavation and ground disturbance that could affect areas utilized by Eastern Spadefoot from Carnegie Drive to Circleville Road (see Figure A below). In order to avoid disturbance to Eastern Spadefoot that may be occupying this area, I recommend the following avoidance measures:

Section 1 Carnegie Drive to Ghaner Road (pink on Figure A)

I recommend that the project construction be conducted between November 1 through March 31 during the inactive period of the species of concern. Additionally, because of the proximity to known Eastern Spadefoot habitats,

1. An Eastern Spadefoot environmental sensitivity briefing package will be prepared and provided to all construction and inspection personnel associated with the remediation project. The briefing package will include photographs of the species for recognition during the course of the project as well as contingency procedures should the species be encountered by personnel.

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2. ***Regardless of the time of year***, a herpetologist that is qualified/recognized and adequately permitted (current Scientific Collectors' Permit, Threatened and Endangered Species Permit) to survey for the Eastern Spadefoot is to be on-site to clear the area of the Eastern Spadefoot and other herpetofauna. All areas to be permanently or temporarily impacted, including staging areas, should be investigated/cleared before any work activities are to commence and during excavation. If any Eastern Spadefoot are found during the surveys, the herpetologist is to move the animal no farther than necessary out of the immediate project area (maximum of 100 meters). PFBC will be notified within 48 hours of discovery of Eastern Spadefoot.
3. If construction must occur outside of the winter time span (April 1 through October 31), then after the clearance surveys are conducted, silt fencing (silt-sock barriers) shall be placed around all work/staging areas so that any transient spadefoot or herpetofauna do not re-enter the project area. Barriers are to stay in place until work is completed and final grading occurs. Straw hay bales can be used as temporary blockages for transient areas (in/out of work space).
 - a. Daily inspections of the barrier fencing will occur by the environmental inspector. If a breach of the barrier fencing is found or Eastern Spadefoot is encountered, construction activities will cease and the qualified/recognized spadefoot surveyor will clear the area (see #2 above).
 - b. A rain-gauge is to be installed and monitored on-site. If greater than 1.5-inch rain occurs within a 24 hour period, work will cease and clearance surveys by the qualified surveyor shall commence (see#2 above).
4. During the construction period, PFBC personnel may communicate with the on-site biologist and may visit the site area periodically to view the progression of the project and answer any questions or concerns that may arise. For safety purposes, PFBC personnel will register with the on-site manager upon entering the construction area.
5. Upon completion of the survey work, the qualified surveyor is to forward a report showing the surveyor's results to this office for our review and comment. Reports should include photographs and maps of appropriate suitable habitat. Threatened and endangered species observed in the survey should be photographed, aged, sexed, measured as to their size, and areas they were observed/captured should be mapped accordingly. The surveyor should also report other herpetofauna seen while conducting the surveys.

Section 2 Ghaner Road to Circleville Road (blue on Figure A)

I recommend that the project construction be conducted between November 1 through March 31 during the inactive period of the species of concern. *If construction must occur outside of this time span (April 1 through October 31)*, to avoid and minimize disturbance to the Eastern Spadefoot, then:

1. An Eastern Spadefoot environmental sensitivity briefing package will be prepared and provided to all construction and inspection personnel associated with the remediation project. The briefing package will include photographs of the species for recognition during the course of the project as well as contingency procedures should the species be encountered by personnel.
2. A herpetologist that is qualified/recognized and adequately permitted (current Scientific Collectors' Permit, Threatened and Endangered Species Permit) to survey for the Eastern Spadefoot is to be on-site to clear the area of the Eastern Spadefoot and other herpetofauna. All areas to be permanently or temporarily impacted, including staging areas, should be investigated/cleared before any work activities are to commence. If any Eastern Spadefoot are found during the surveys, the herpetologist is to move the animal no farther than necessary out of the immediate project area (maximum of 100 meters). PFBC will be notified within 48 hours of discovery of Eastern Spadefoot.
3. After the clearance surveys are conducted, silt fencing (silt-sock barriers) shall be placed around all work/staging areas so that any transient spadefoot or herpetofauna do not re-enter the project area. Barriers are to stay in place until work is completed and final grading occurs. Straw hay bales can be used as temporary blockages for transient areas (in/out of work space).

4. Daily inspections of the barrier fencing will occur by the environmental inspector. If a breach of the barrier fencing is found or Eastern Spadefoot is encountered, construction activities will cease and the qualified/recognized spadefoot surveyor will clear the area (see #2 above).
5. A rain-gauge is to be installed and monitored on-site. If greater than 1.5-inch rain occurs within a 24 hour period, work will cease and clearance surveys by the qualified surveyor shall commence (see#2 above).
6. During the construction period, PFBC personnel may communicate with the on-site biologist and may visit the site area periodically to view the progression of the project and answer any questions or concerns that may arise. For safety purposes, PFBC personnel will register with the on-site manager upon entering the construction area.
7. Upon completion of the survey work, the qualified surveyor is to forward a report showing the surveyor's results to this office for our review and comment. Reports should include photographs and maps of appropriate suitable habitat. Threatened and endangered species observed in the survey should be photographed, aged, sexed, measured as to their size, and areas they were observed/captured should be mapped accordingly. The surveyor should also report other herpetofauna seen while conducting the surveys.

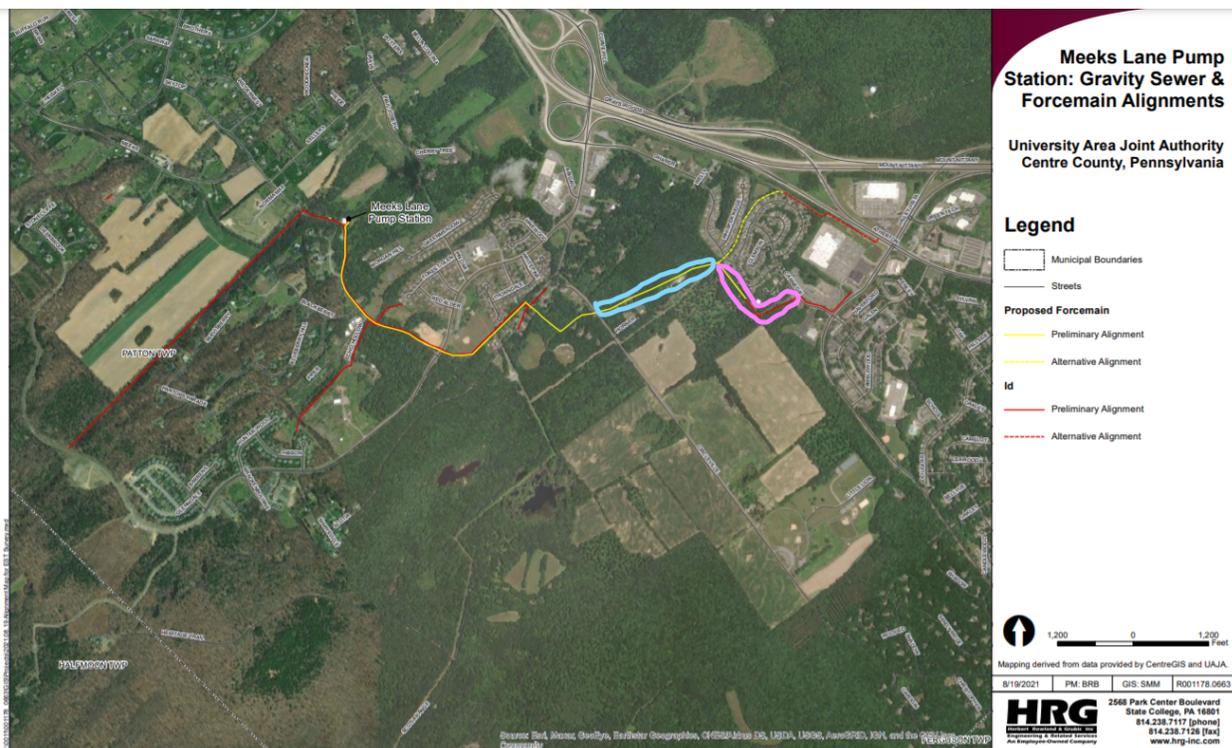


Figure A. Areas drawn to depict project implementation of Eastern Spadefoot avoidance measures. Pink for Avoidance Measure Section 1 and blue for Avoidance Measure Section 2.

If these recommendations are implemented, best management practices are employed and strict erosion and sedimentation controls are used, then I do not foresee the proposed project resulting in adverse impacts to the Eastern Spadefoot or any other rare or protected species under the PA Fish and Boat Commission's jurisdiction.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or

proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 and refer to the SIR # 52855. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent initial "C".

Christopher A. Urban, Chief
Natural Diversity Section

CAU/KDG/dn

1. PROJECT INFORMATION

Project Name: **UAJA Meeks Lane PS Special Study - Ghaner Drive Discharge Alternative - R001178.0663**

Date of Review: **7/13/2021 10:55:30 AM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Area: **4.91 acres**

County(s): **Centre**

Township/Municipality(s): **PATTON TOWNSHIP**

ZIP Code:

Quadrangle Name(s): **JULIAN**

Watersheds HUC 8: **Bald Eagle**

Watersheds HUC 12: **Big Hollow; Buffalo Run**

Decimal Degrees: **40.813951, -77.927838**

Degrees Minutes Seconds: **40° 48' 50.2249" N, 77° 55' 40.2171" W**

2. SEARCH RESULTS

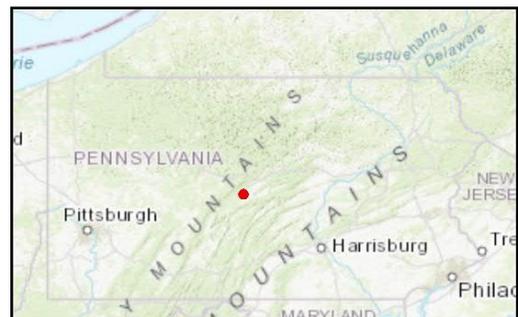
Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

Map Title

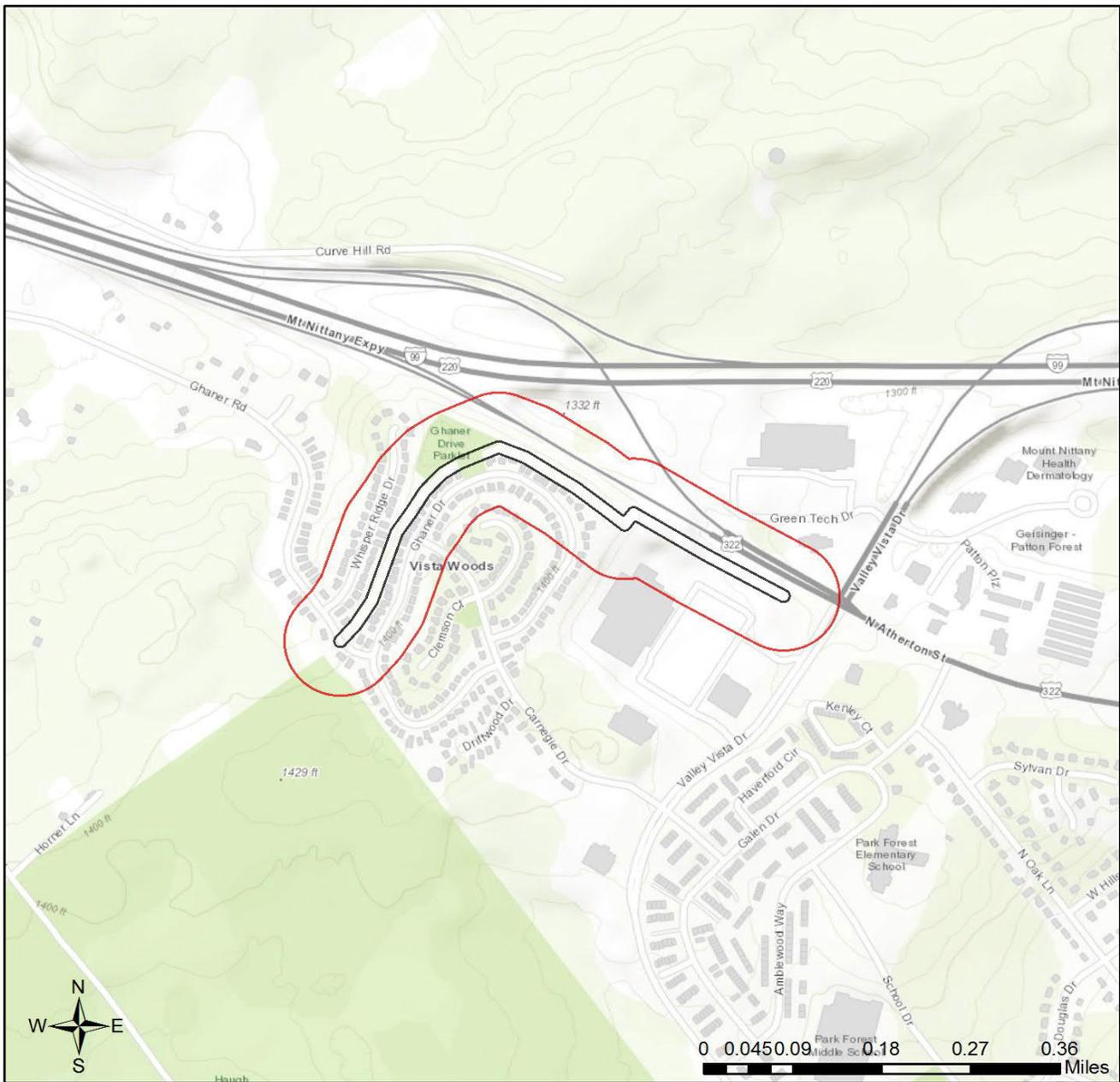


- Project Boundary
- Buffered Project Boundary



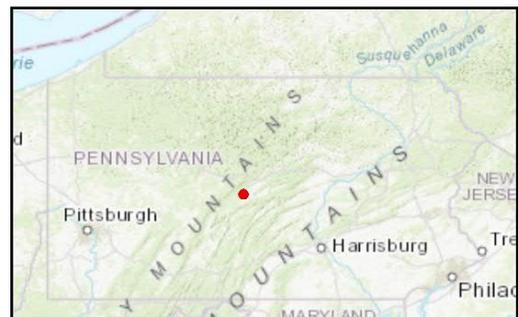
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China

Map Title



-  Project Boundary
-  Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, Garmin, Intemap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



RESPONSE TO QUESTION(S) ASKED

Q1: Will the entire project occur within an existing building, parking lot, driveway, road, street, or maintained (periodically mowed) lawn?

Your answer is: Unknown

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

DCNR Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here:

<https://conservationexplorer.dcnr.pa.gov/content/survey-protocols>)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Sensitive Species**		Special Concern Species*	Special Concern Species*	One flight from March-April in the south, May-June in the north

PA Fish and Boat Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service

RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).

*If information was requested by USFWS, applicants must email, or mail, project information to IR1_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

Check-list of Minimum Materials to be submitted:

___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

___ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

In addition to the materials listed above, USFWS REQUIRES the following

___ **SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.

___ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

___ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

PA Fish and Boat Commission

Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Shelby M. McVey, E.I.T.
Company/Business Name: Herbert, Rowland and Grubic, Inc.
Address: 2568 Park Center Boulevard
City, State, Zip: State College, PA 16801
Phone: (814) 238-7117 Fax: ()
Email: smcvey@hrg-inc.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Shelby M. McVey

applicant/project proponent signature

July 13, 2021

date

BUREAU OF FORESTRY

July 20, 2021

PNDI Number: 737980

Version: Final_1; 7/13/21

Shelby McVey
Herbert, Rowland & Grubic, Inc.
2568 Park Center Boulevard
State College, PA 16801
Email: smcvey@hrg-inc.com (hard copy will not follow)

Re: UAJA Meeks Lane PS Special Study – Ghaner Drive Discharge Alternative – R001178.0663
Patton Township, Centre County, PA

Dear Ms. McVey,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number **737980 (Final_1)** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

No Impact Anticipated

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project.

Recommended Actions:

- Clean boot treads, construction equipment, and vehicles thoroughly (especially the undercarriage and wheels) before they are brought on site. This will remove invasive plant seeds and invasive earthworms/cocoons that may have been picked up at other sites.
- Do not transport unsterilized leaves, mulch, compost, or soil to the site from another location.
- Revegetate or cover disturbed soil and soil stockpiles as soon as possible to discourage the germination of invasive plants. Implement proper erosion control practices to stabilize soil and reduce runoff.
- Do not use seed mixes that include invasive species. Please also use weed-free straw or hay mixes. More information about invasive species in Pennsylvania can be found at the following link:
<http://www.dcnr.pa.gov/Conservation/WildPlants/InvasivePlants/Pages/default.aspx>
- Use habitat appropriate seed mixes. For example, when reseeding along a waterway, utilize a riparian seed mix. The Bureau of Forestry Planting & Seeding Guidelines can be found here for recommendations:
http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr_20031083.pdf
- **Use native plants for landscaping, revegetation, and stormwater management. Do not use nonnative invasive species. Reduce the area of lawn and impermeable surfaces to the fullest extent practicable in favor of native gardens or native habitat restoration (e.g., forest, meadow, wetland, etc.).**
- Report occurrences of invasive species to iMapInvasives at <https://www.imapinvasives.org/>. Focus on large infestations and species that are not yet well established in the region or in Pennsylvania (<https://www.paimapinvasives.org/be-on-the-lookout>).

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

Should you have any questions or concerns, please contact Alexander Dogonniuck, Ecological Information Specialist, by phone (717-783-3913) or via email (c-adogonni@pa.gov).

Sincerely

A handwritten signature in black ink that reads "Greg Podnieszinski". The signature is written in a cursive style and is centered within a light gray rectangular box.

Greg Podnieszinski, Section Chief
Natural Heritage Section



Pennsylvania Fish & Boat Commission

Division of Environmental Services
Natural Diversity Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823
814-359-5237

November 3, 2021

IN REPLY REFER TO
SIR# 52855

SKELLY AND LOY, INC.
Andrew Brookens
449 Eisenhower Boulevard, Suite 300
Harrisburg, Pennsylvania 17111

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search Nos. 708016_1; 736969_1; 737980_1
UAJA Sewer Improvements Planning Project
CENTRE County: Patton Township**

Dear Mr. Brookens:

In response to our initial review request regarding the above-mentioned projects, you conducted an assessment of the proposed project area and alternatives for potential habitats of the Eastern Spadefoot (*Scaphiopus holbrookii*, Threatened). You determined that portions of the proposed route included potential burrowing and foraging habitats for the Eastern Spadefoot.

Given the proximity to a nearby extant population of the species of concern listed above, the site will need to be investigated further for potential habitat of the species and design of avoidance measures. Please contact Kathy Gipe at 814-359-5186 at your earliest convenience to set up a field view to look at the project area and review the site plans.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 and refer to the SIR # 52855. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Our Mission:

www.fish.state.pa.us

To protect, conserve and enhance the Commonwealth's aquatic resources and provide fishing and boating opportunities.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent "C" at the beginning.

Christopher A. Urban, Chief
Natural Diversity Section

CAU/KDG/dn



Pennsylvania Fish & Boat Commission

Division of Environmental Services
Natural Diversity Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823
814-359-5237

November 29, 2021

IN REPLY REFER TO
SIR# 52855

SKELLY AND LOY, INC.
Andrew Brookens
449 Eisenhower Boulevard
Suite 300
Harrisburg, Pennsylvania 17111

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search Nos. 708016_1; 736969_1; 737980_1
UAJA Meeks Lane Pump Station
CENTRE County: Patton Township

Dear Mr. Brookens:

In previous correspondence, given that the Eastern Spadefoot (*Scaphiopus holbrookii*, PA Threatened) are known from the watershed and potentially in the project area, a habitat evaluation of the project area was requested by the Commission. As a qualified/recognized PA Eastern Spadefoot surveyor, you conducted a habitat assessment in the proposed project area. You found that while no suitable critical breeding habitat occurred within the project footprint, much of the proposed line would be going through potential foraging and burrowing habitat. Kathy Gipe and I met you onsite to review these findings and we concurred with your evaluation.

The proposed gravity lines and force mains may require excavation and ground disturbance that could affect areas utilized by Eastern Spadefoot from Carnegie Drive to Circleville Road (see Figure A below). In order to avoid disturbance to Eastern Spadefoot that may be occupying this area, I recommend the following avoidance measures:

Section 1 Carnegie Drive to Ghaner Road (pink on Figure A)

I recommend that the project construction be conducted between November 1 through March 31 during the inactive period of the species of concern. Additionally, because of the proximity to known Eastern Spadefoot habitats,

1. An Eastern Spadefoot environmental sensitivity briefing package will be prepared and provided to all construction and inspection personnel associated with the remediation project. The briefing package will include photographs of the species for recognition during the course of the project as well as contingency procedures should the species be encountered by personnel.

Our Mission:

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To protect, conserve and enhance the Commonwealth's aquatic resources and provide fishing and boating opportunities.

2. ***Regardless of the time of year***, a herpetologist that is qualified/recognized and adequately permitted (current Scientific Collectors' Permit, Threatened and Endangered Species Permit) to survey for the Eastern Spadefoot is to be on-site to clear the area of the Eastern Spadefoot and other herpetofauna. All areas to be permanently or temporarily impacted, including staging areas, should be investigated/cleared before any work activities are to commence and during excavation. If any Eastern Spadefoot are found during the surveys, the herpetologist is to move the animal no farther than necessary out of the immediate project area (maximum of 100 meters). PFBC will be notified within 48 hours of discovery of Eastern Spadefoot.
3. If construction must occur outside of the winter time span (April 1 through October 31), then after the clearance surveys are conducted, silt fencing (silt-sock barriers) shall be placed around all work/staging areas so that any transient spadefoot or herpetofauna do not re-enter the project area. Barriers are to stay in place until work is completed and final grading occurs. Straw hay bales can be used as temporary blockages for transient areas (in/out of work space).
 - a. Daily inspections of the barrier fencing will occur by the environmental inspector. If a breach of the barrier fencing is found or Eastern Spadefoot is encountered, construction activities will cease and the qualified/recognized spadefoot surveyor will clear the area (see #2 above).
 - b. A rain-gauge is to be installed and monitored on-site. If greater than 1.5-inch rain occurs within a 24 hour period, work will cease and clearance surveys by the qualified surveyor shall commence (see#2 above).
4. During the construction period, PFBC personnel may communicate with the on-site biologist and may visit the site area periodically to view the progression of the project and answer any questions or concerns that may arise. For safety purposes, PFBC personnel will register with the on-site manager upon entering the construction area.
5. Upon completion of the survey work, the qualified surveyor is to forward a report showing the surveyor's results to this office for our review and comment. Reports should include photographs and maps of appropriate suitable habitat. Threatened and endangered species observed in the survey should be photographed, aged, sexed, measured as to their size, and areas they were observed/captured should be mapped accordingly. The surveyor should also report other herpetofauna seen while conducting the surveys.

Section 2 Ghaner Road to Circleville Road (blue on Figure A)

I recommend that the project construction be conducted between November 1 through March 31 during the inactive period of the species of concern. *If construction must occur outside of this time span (April 1 through October 31)*, to avoid and minimize disturbance to the Eastern Spadefoot, then:

1. An Eastern Spadefoot environmental sensitivity briefing package will be prepared and provided to all construction and inspection personnel associated with the remediation project. The briefing package will include photographs of the species for recognition during the course of the project as well as contingency procedures should the species be encountered by personnel.
2. A herpetologist that is qualified/recognized and adequately permitted (current Scientific Collectors' Permit, Threatened and Endangered Species Permit) to survey for the Eastern Spadefoot is to be on-site to clear the area of the Eastern Spadefoot and other herpetofauna. All areas to be permanently or temporarily impacted, including staging areas, should be investigated/cleared before any work activities are to commence. If any Eastern Spadefoot are found during the surveys, the herpetologist is to move the animal no farther than necessary out of the immediate project area (maximum of 100 meters). PFBC will be notified within 48 hours of discovery of Eastern Spadefoot.
3. After the clearance surveys are conducted, silt fencing (silt-sock barriers) shall be placed around all work/staging areas so that any transient spadefoot or herpetofauna do not re-enter the project area. Barriers are to stay in place until work is completed and final grading occurs. Straw hay bales can be used as temporary blockages for transient areas (in/out of work space).

4. Daily inspections of the barrier fencing will occur by the environmental inspector. If a breach of the barrier fencing is found or Eastern Spadefoot is encountered, construction activities will cease and the qualified/recognized spadefoot surveyor will clear the area (see #2 above).
5. A rain-gauge is to be installed and monitored on-site. If greater than 1.5-inch rain occurs within a 24 hour period, work will cease and clearance surveys by the qualified surveyor shall commence (see#2 above).
6. During the construction period, PFBC personnel may communicate with the on-site biologist and may visit the site area periodically to view the progression of the project and answer any questions or concerns that may arise. For safety purposes, PFBC personnel will register with the on-site manager upon entering the construction area.
7. Upon completion of the survey work, the qualified surveyor is to forward a report showing the surveyor's results to this office for our review and comment. Reports should include photographs and maps of appropriate suitable habitat. Threatened and endangered species observed in the survey should be photographed, aged, sexed, measured as to their size, and areas they were observed/captured should be mapped accordingly. The surveyor should also report other herpetofauna seen while conducting the surveys.

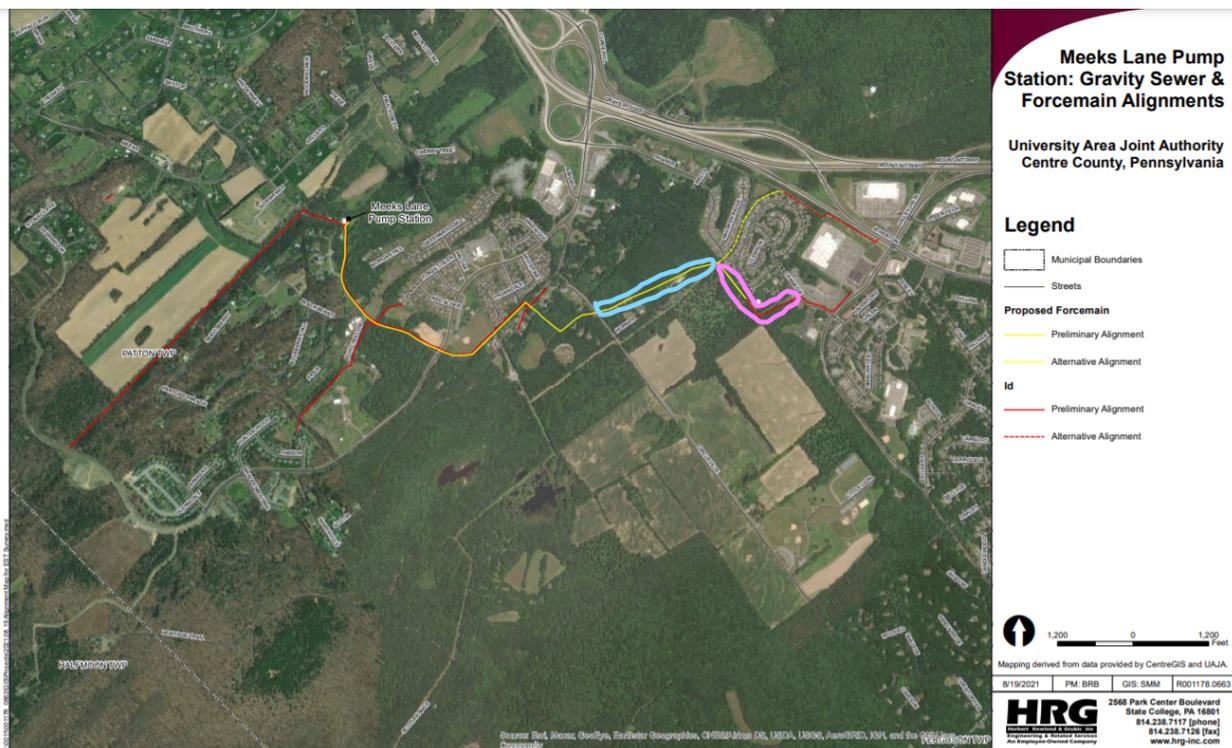


Figure A. Areas drawn to depict project implementation of Eastern Spadefoot avoidance measures. Pink for Avoidance Measure Section 1 and blue for Avoidance Measure Section 2.

If these recommendations are implemented, best management practices are employed and strict erosion and sedimentation controls are used, then I do not foresee the proposed project resulting in adverse impacts to the Eastern Spadefoot or any other rare or protected species under the PA Fish and Boat Commission's jurisdiction.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or

proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 and refer to the SIR # 52855. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent initial "C".

Christopher A. Urban, Chief
Natural Diversity Section

CAU/KDG/dn

1. PROJECT INFORMATION

Project Name: **UAJA Meeks Lane PS Special Study - Whisper Ridge Backlot Discharge Alternative - R001178.0663**

Date of Review: **1/6/2022 04:50:40 PM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Area: **4.13 acres**

County(s): **Centre**

Township/Municipality(s): **PATTON TOWNSHIP**

ZIP Code:

Quadrangle Name(s): **JULIAN**

Watersheds HUC 8: **Bald Eagle**

Watersheds HUC 12: **Buffalo Run**

Decimal Degrees: **40.811584, -77.932940**

Degrees Minutes Seconds: **40° 48' 41.7021" N, 77° 55' 58.5836" W**

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

UAJA Meeks Lane PS Special Study - Whisper Ridge Backlot Discharge Alternative -

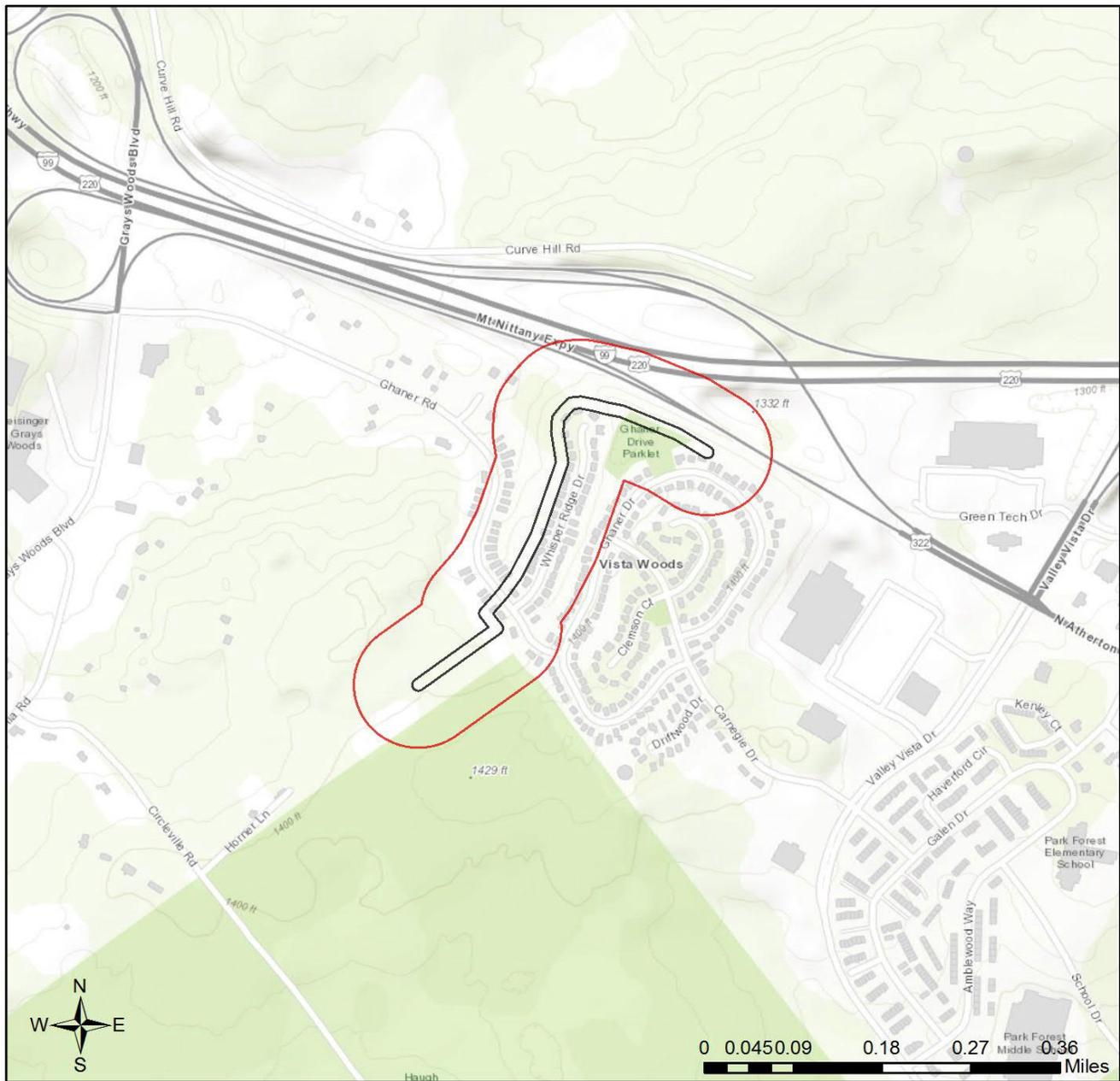


- Project Boundary
- Buffered Project Boundary



Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China

UAJA Meeks Lane PS Special Study - Whisper Ridge Backlot Discharge Alternative -



- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, Garmin, Intemap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



RESPONSE TO QUESTION(S) ASKED

Q1: Will the entire project occur within an existing building, parking lot, driveway, road, street, or maintained (periodically mowed) lawn?

Your answer is: Yes

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service

RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).

*If information was requested by USFWS, applicants must email, or mail, project information to IR1_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

Check-list of Minimum Materials to be submitted:

____ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

____ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

In addition to the materials listed above, USFWS REQUIRES the following

____ **SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.

____ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

____ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

PA Fish and Boat Commission

Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Shelby M. McVey, E.I.T.
Company/Business Name: Herbert, Rowland & Grubic, Inc.
Address: 2568 Park Center Boulevard
City, State, Zip: State College, PA 16801
Phone: (814) 238-7117 Fax: ()
Email: smcvey@hrg-inc.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Shelby M. McVey

applicant/project proponent signature

January 6, 2022

date



Pennsylvania Fish & Boat Commission

Division of Environmental Services
Natural Diversity Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823
814-359-5237

January 18, 2022

IN REPLY REFER TO
SIR# 55540

Herbert, Rowland & Grubic, Inc.
Shelby McVey
2568 Park Center Boulevard
State College, Pennsylvania 16801

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 749637_1
UAJA Meeks Lane PS Special Study - Whisper Ridge Backlot Discharge Alternative -
R001178.0663
CENTRE County: Patton Township**

Dear Ms. McVey:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search “potential conflict” or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

Kathy Gipe and I visited the site on November 17, 2021 and determined that wetlands and other onsite conditions within areas to be directly or indirectly impacted by this project from Ghaner Road to SR 322 did not contain potential Eastern Spadefoot (*Scaphiopus holbrookii*) habitat. Therefore, I do not foresee the proposed project mapped under this PNDI number resulting in adverse impacts to the Eastern Spadefoot.

Please refer to our letter for SIR# 52855 dated November 29, 2021 for detailed recommendations for the full sewer conveyance route.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or

Our Mission:

www.fish.state.pa.us

To protect, conserve and enhance the Commonwealth's aquatic resources and provide fishing and boating opportunities.

proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 and refer to the SIR # 55540. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive, flowing style.

Christopher A. Urban, Chief
Natural Diversity Section

CAU/KDG/dn

1. PROJECT INFORMATION

Project Name: **UAJA Meeks Ln PS Special Study Alternative Pump Station Location - R001178.0663**

Date of Review: **3/8/2022 09:40:32 AM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Area: **1.28 acres**

County(s): **Centre**

Township/Municipality(s): **PATTON TOWNSHIP**

ZIP Code:

Quadrangle Name(s): **JULIAN**

Watersheds HUC 8: **Bald Eagle**

Watersheds HUC 12: **Buffalo Run**

Decimal Degrees: **40.813559, -77.957438**

Degrees Minutes Seconds: **40° 48' 48.8132" N, 77° 57' 26.7774" W**

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

UAJA Meeks Ln PS Special Study Alternative Pump Station Location - R001178.0663

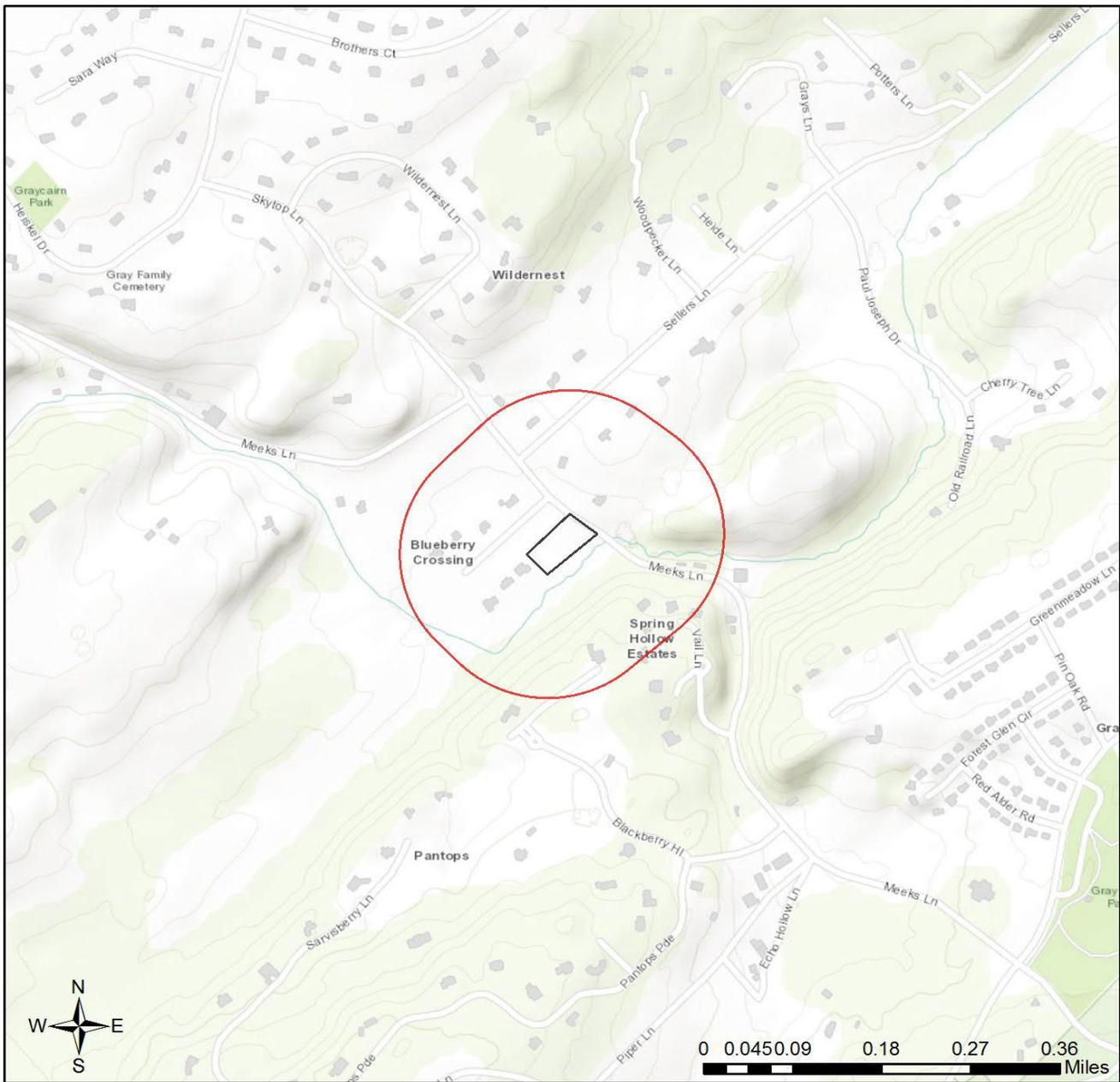


- Project Boundary
- Buffered Project Boundary



Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China

UAJA Meeks Ln PS Special Study Alternative Pump Station Location - R001178.0663



- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, Garmin, Intemap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



RESPONSE TO QUESTION(S) ASKED

Q1: Will the entire project occur within an existing building, parking lot, driveway, road, street, or maintained (periodically mowed) lawn?

Your answer is: Yes

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

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5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

PA Fish and Boat Commission

Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office
Endangered Species Section
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State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
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7. PROJECT CONTACT INFORMATION

Name: Shelby M. McVey, E.I.T.
Company/Business Name: Herbert, Rowland and Grubic, Inc.
Address: 2568 Park Center Boulevard
City, State, Zip: State College, PA 16801
Phone: (814) 238-7117 Fax: ()
Email: smcvey@hrg-inc.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Shelby M. McVey

applicant/project proponent signature

March 8, 2022

date

1. PROJECT INFORMATION

Project Name: **UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663 Phase 2**

Date of Review: **5/15/2025 11:15:01 AM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Area: **3.18 acres**

County(s): **Centre**

Township/Municipality(s): **Patton Township**

ZIP Code:

Quadrangle Name(s): **JULIAN**

Watersheds HUC 8: **Bald Eagle**

Watersheds HUC 12: **Big Hollow; Buffalo Run**

Decimal Degrees: **40.807672, -77.949412**

Degrees Minutes Seconds: **40° 48' 27.6188" N, 77° 56' 57.8826" W**

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	Potential Impact	MORE INFORMATION REQUIRED, See Agency Response

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663 Phase 2

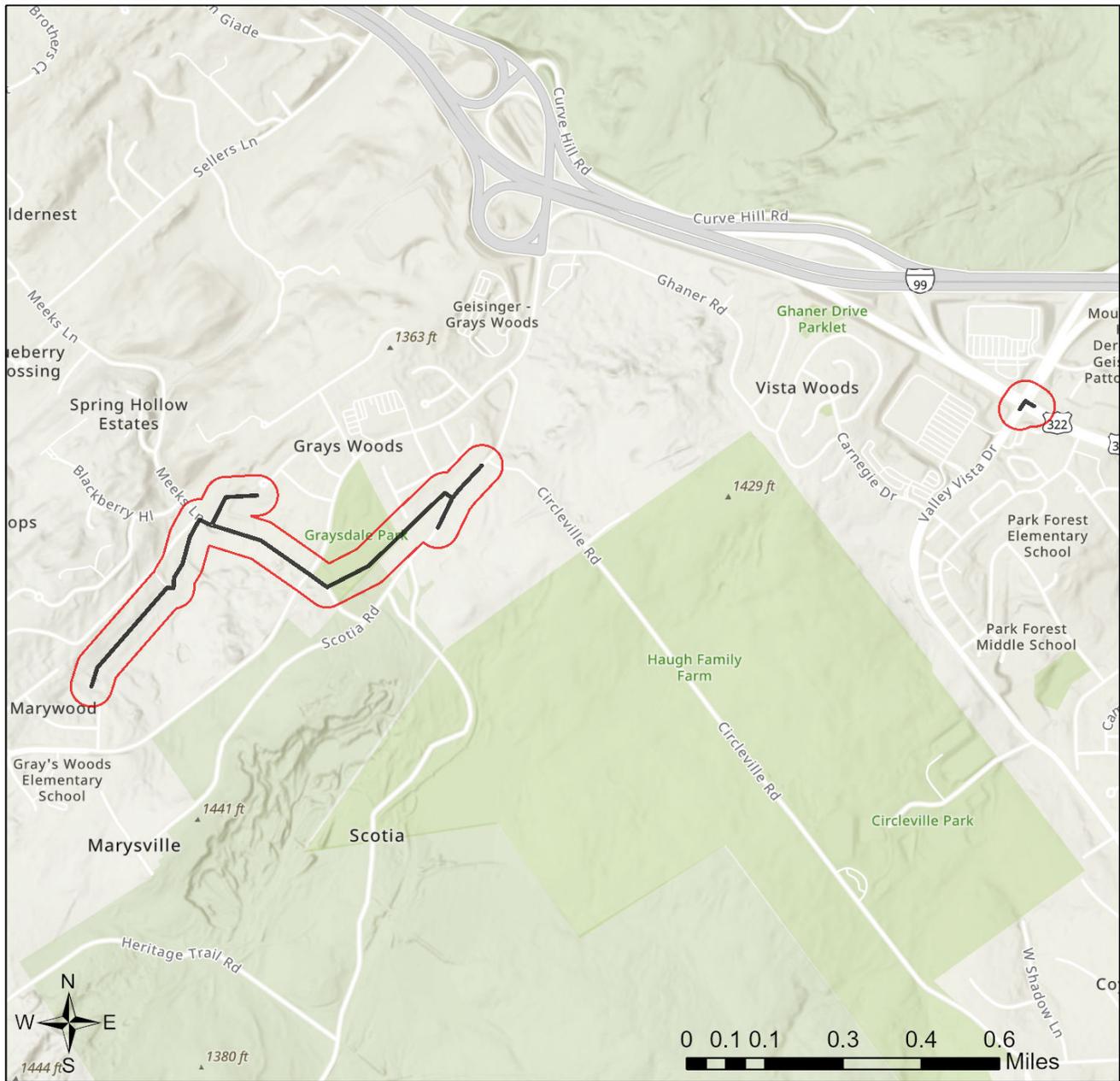


-  Buffered Project Boundary
-  Project Boundary



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663 Phase 2



-  Buffered Project Boundary
-  Project Boundary



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community
Sources: Esri, Maxar, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodastystyrelsen, Rijkswaterstaat, GSA,

RESPONSE TO QUESTION(S) ASKED

Q1: Will the entire project occur within an existing building, parking lot, driveway, road, street, or maintained (periodically mowed) lawn?

Your answer is: No

Q2: Is tree removal, tree cutting or forest clearing necessary to implement all aspects of this project?

Your answer is: Yes

Q3: Will the action include disturbance to trees such as tree cutting (or other means of knocking down, or bringing down trees, tree topping, or tree trimming), pesticide/herbicide application or prescribed fire?

Your answer is: Yes

Q4: Does the action area contain any caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, culverts, or tunnels that could provide habitat for hibernating bats?

Your answer is: No

Q5: Does the action area contain any caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, culverts, or tunnels that could provide habitat for hibernating bats?

Your answer is: No

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PGC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Podilymbus podiceps	Pied-billed Grebe	Special Concern Species*

PA Department of Conservation and Natural Resources

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

DCNR Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here: <https://conservationexplorer.dcnr.pa.gov/content/survey-protocols>)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Sensitive Species**		Special Concern Species*	Special Concern Species*	One flight from March-April in the south, May-June in the north
Erynnis persius	Persius Duskywing	Special Concern Species*	Special Concern Species*	One brood from April-June.

PA Fish and Boat Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service

RESPONSE:

Information Request: Enter project information into IPaC (<https://ecos.fws.gov/ipac/>). Follow the step-by-step process to review this projects's potential effect on federally listed species.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).

*If information was requested by USFWS, applicants must email, or mail, project information to IR1_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

Check-list of Minimum Materials to be submitted:

___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

___ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

In addition to the materials listed above, USFWS REQUIRES the following

___ **SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.

___ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

___ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

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5. ADDITIONAL INFORMATION

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For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

PA Fish and Boat Commission

Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Game Commission

Bureau of Wildlife Management
Division of Environmental Review
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Matthew Deskevich, EIT
Company/Business Name: Herbert, Rowland & Grubic, Inc.
Address: 2568 Park Center Boulevard
City, State, Zip: State College, PA 16801
Phone: (814) 238-7117 Fax: ()
Email: mdeskevich@hrg-inc.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.


applicant/project proponent signature

5/15/2025
date



May 21, 2025

PNDI Number: 840756
Version: Final_1; 5/15/2025

Matthew Deskevich
Herbert, Rowland & Grubic, Inc.
2568 Park Center Boulevard
State College, PA 16801
Email: mdeskevich@hrg-inc.com (hard copy will not follow)

**Re: UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663 Phase 2
Patton Township, Centre County, PA**

Dear Matthew,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number **840756 (Final_1)** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

No Impact Anticipated

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project.

Recommended Best Management Practices:

- Use a conservative approach to project design that minimizes permanent and temporary disturbances to soil and native vegetation. This will conserve habitat and limit opportunities for invasive plants.
- Clean boot treads, tools, construction equipment, watercraft, and vehicles thoroughly (especially the undercarriage and wheels) before they are brought on site. This will remove invasive plant seeds and invasive earthworms/cocoons that may have been picked up at other worksites.
- Use clean project materials (e.g., weed-free straw, topsoil, rock fill, etc.) or materials native to the worksite to avoid introducing invasive species from contaminated sources.
- Do not use seed mixes that include invasive species. More information about invasive plants in Pennsylvania can be found at the following link:
<http://www.dcnr.pa.gov/Conservation/WildPlants/InvasivePlants/Pages/default.aspx>
- Use habitat appropriate seed mixes and, when available, use PA ecotypes. For example, use a riparian seed mix when reseeding along a waterway. The Bureau of Forestry Planting & Seeding Guidelines can be found at the following link for recommendations:
http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr_20031083.pdf

- Use native plants for landscaping, revegetation, and stormwater management. Do not use nonnative invasive species. Reduce the area of lawn and impermeable surfaces to the fullest extent practicable in favor of native gardens or habitat restoration (e.g., forest, meadow, wetland, etc.). More information about lawn conversion can be found at the following link: <https://www.dcnr.pa.gov/Conservation/Water/LawnConversion/Pages/default.aspx>
- Plant forest buffers where trees were historically present along streams, wetlands, and bodies of water. Buffers should be a minimum of 35 feet in width (ideally at least 100 feet in width). Where trees are not appropriate (e.g., powerline rights-of-way), buffer with native shrubs and herbaceous plants. More information about riparian buffers can be found at the following link: <https://www.dcnr.pa.gov/Conservation/Water/RiparianBuffers/Pages/default.aspx>
- Manage road/utility rights-of-way, median strips, edges, and other green spaces for diverse native plant communities and wildlife (e.g., common and swamp milkweed for monarch butterfly). In seed mixes, include PA native wildflowers that have overlapping bloom periods and provide forage for pollinators throughout the growing season.
- Avoid blanket herbicide applications; instead, spot-treat undesirable tall woody vegetation and invasive weeds. Where mowing is necessary, reduce frequency to once every few years during the dormant season (i.e., after first frost in late fall and before bird nesting in early spring), leaving some refugia for overwintering wildlife.
- Monitor for invasive plants before, during, and after project activities and promptly control any identified infestations. Frequent monitoring allows for early detection and rapid response.

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

Should you have any questions or concerns, please contact Jason Ryndock, Ecological Information Specialist, by phone (717-705-2822) or via email (c-jryndock@pa.gov).

Sincerely,



Greg Podnieszinski, Section Chief
Natural Heritage Section



May 19, 2025

IN REPLY REFER TO

SIR# 61534

Herbert, Rowland & Grubic, Inc.
Matthew Deskevich
2568 Park Center Blvd
State College, Pennsylvania 16801

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 840756_1
UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663 Phase 2
Patton Township: CENTRE County**

Dear Matthew Deskevich:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search “potential conflict” or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish and Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish and Boat Code (Chapter 75), or the Wildlife Code.

An element occurrence of a rare, candidate, threatened, or endangered species under our jurisdiction is known from the vicinity of the proposed project. However, given the nature of the proposed project, the immediate location, or the current status of the nearby element occurrence(s), no adverse impacts are expected to the species of special concern.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 or c-kgipe@pa.gov and refer to the SIR # 61534. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent initial "C".

Christopher A. Urban, Chief
Natural Diversity Section

CAU//KDG/dn



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Pennsylvania Ecological Services Field Office
110 Radnor Road Suite 101
State College, PA 16801-7987
Phone: (814) 234-4090 Fax: (814) 234-0748

In Reply Refer To:

05/14/2025 22:27:57 UTC

Project code: 2025-0097066

Project Name: UAJA Meeks Lane Pump Station Act 537 Plan Special Study

Federal Nexus: no

Federal Action Agency (if applicable):

Subject: Technical assistance for 'UAJA Meeks Lane Pump Station Act 537 Plan Special Study'

Dear Matthew Deskevich:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on May 14, 2025, for 'UAJA Meeks Lane Pump Station Act 537 Plan Special Study' (here forward, Project). This project has been assigned Project Code 2025-0097066 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements may not be complete.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid. Note that conservation measures for northern long-eared bat and tricolored bat may differ. If both bat species are present in the action area and the key suggests more conservative measures for one of the species for your project, the Project may need to apply the most conservative measures in order to avoid adverse effects. If unsure which conservation measures should be applied, please contact the appropriate Ecological Services Field Office***

Determination for the Northern Long-Eared Bat and Tricolored Bat

Based upon your IPaC submission and a standing analysis completed by the Service, your project has reached the following effect determination(s):

Species	Listing Status	Determination
Northern Long-eared Bat (<i>Myotis septentrionalis</i>)	Endangered	NLAA
Tricolored Bat (<i>Perimyotis subflavus</i>)	Proposed	NLAA
	Endangered	

Federal agencies must consult with U.S. Fish and Wildlife Service under section 7(a)(2) of the Endangered Species Act (ESA) when an action *may affect* a listed species. Tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can *confer* under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a NE or NLAA determination from the key to confirm that the determination is still accurate.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Indiana Bat *Myotis sodalis* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Northeastern Bulrush *Scirpus ancistrochaetus* Endangered

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species and/or critical habitat listed above. Note that if a new species is listed that may be affected by the identified action before it is complete, additional review is recommended to ensure compliance with the Endangered Species Act.

Next Steps

Coordination with the Service is complete. This letter serves as technical assistance. All conservation measures should be implemented as proposed. Thank you for considering federally listed species during your project planning.

If no changes occur with the Project or there are no updates on listed species, no further consultation/coordination for this project is required for the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the

Service should take place before project implements any changes which are final or commits additional resources.

If you have any questions regarding this letter or need further assistance, please contact the Pennsylvania Ecological Services Field Office and reference Project Code 2025-0097066 associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

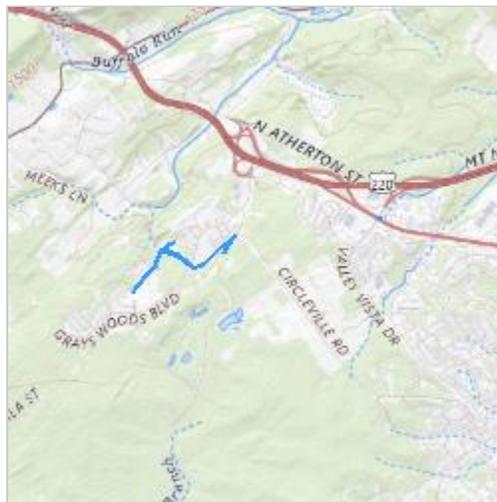
UAJA Meeks Lane Pump Station Act 537 Plan Special Study

2. Description

The following description was provided for the project 'UAJA Meeks Lane Pump Station Act 537 Plan Special Study':

The proposed project is intended to reduce the overall pump stations in the system by conveying the flow by new gravity sewer from each of these pump stations to the proposed Meeks Lane pump station. The Meeks Lane pump station will include a section of new forcemain that will connect to existing forcemain along Grays Woods Blvd and be conveyed to the Ghaner Road pump station.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@40.80719035,-77.9467216772255,14z>



DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of “may affect, but not likely to adversely affect” for a least one species covered by this determination key.

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of wind turbines.

Note: For federal actions, answer ‘yes’ if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

No

6. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

7. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

No

8. Does the action area contain (1) talus or (2) anthropogenic or naturally formed rock shelters or crevices in rocky outcrops, rock faces or cliffs?

No

9. Will the action cause effects to a bridge?

Note: Covered bridges should be considered as bridges in this question.

No

10. Will the action result in effects to a culvert or tunnel at any time of year?

No

11. Are trees present within 1000 feet of the action area?

Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

12. Does the action include the intentional exclusion of bats from a building or structure?

Note: Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

No

13. Does the action involve removal, modification, or maintenance of a human-made structure (barn, house, or other building) **known or suspected to contain roosting bats?**

No

14. Will the action cause construction of one or more new roads open to the public?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

15. Will the action include or cause any construction or other activity that is reasonably certain to increase average night-time traffic permanently or temporarily on one or more existing roads? **Note:** For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.). .

No

16. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

17. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

Note: For information regarding NSF/ANSI 60 please visit <https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects>

No

18. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

No

19. Will the action include drilling or blasting?

No

20. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use)?

No

21. Will the proposed action involve the use of herbicides or other pesticides other than herbicides (e.g., fungicides, insecticides, or rodenticides)?

No

22. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season?

Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining.

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

No

23. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable northern long-eared bat or tricolored bat roosting habitat?

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

No

24. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

Yes

25. Will the proposed action occur exclusively in an already established and currently maintained utility right-of-way?

No

26. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

Note: A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property.

No

27. Does the project intersect with the 0- 9.9% forest density category?

Automatically answered

No

28. Does the project intersect with the 10.0- 19.9% forest density category map?

Automatically answered

No

29. Does the project intersect with the 20.0- 29.9% forest density category map?

Automatically answered

No

30. Does the project intersect with the 30.0- 100% forest density category map?

Automatically answered

Yes

31. Will the action cause trees to be cut, knocked down, or otherwise brought down across an area greater than 100 acres in total extent?

No

32. Will the proposed action result in the use of prescribed fire?

Note: If the prescribed fire action includes other activities than application of fire (e.g., tree cutting, fire line preparation) please consider impacts from those activities within the previous representative questions in the key. This set of questions only considers impacts from flame and smoke.

No

33. Does the action area intersect the northern long-eared bat species list area?

Automatically answered

Yes

34. [Semantic] Is the action area located within 0.5 miles of radius of an entrance/opening to any known NLEB hibernacula? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

35. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

36. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats?

Automatically answered

No

37. [Semantic] Is the action area located within 150 feet of a documented northern long-eared bat roost site?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency. Have you contacted the appropriate agency to determine if your action is within 150 feet of any documented northern long-eared bat roosts?

Note: A document with links to Natural Heritage Inventory databases and other state-specific sources of information on the locations of northern long-eared bat roosts is available here. Location information for northern long-eared bat roosts is generally kept in state natural heritage inventory databases – the availability of this data varies by state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited.

Automatically answered

No

38. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?

If unsure, answer "Yes."

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

39. Has a presence/probable absence summer bat survey targeting the northern long-eared bat following the Service's [Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines](#) been conducted within the project area?

No

40. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags ≥ 3 inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)?

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

41. Will any tree cutting/trimming or other knocking or bringing down of trees occur during the **Summer Occupancy season** for northern long-eared bats in the action area? **Note:** Bat activity periods for your state can be found in Appendix L of the Service's Range-wide Indiana Bat and Northern long-eared Bat Survey [Guidelines](#).

No

42. Does the action area intersect the tricolored bat species list area?

Automatically answered

Yes

43. [Semantic] Is the action area located within 0.5 miles of radius of an entrance/opening to any known tricolored bat hibernacula? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

44. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

45. Has a presence/probable absence bat survey targeting the [tricolored bat and following the Service's Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines](#) been conducted within the project area?

No

46. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities?

(If unsure, answer ""Yes."")

Note: If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see Appendix A in the [Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines](#).

Yes

47. Do any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pine trees)?

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

48. Will any tree cutting/trimming or other knocking or bringing down of trees be conducted during the Spring Staging Season for tricolored bat?

Note: Bat activity periods for your state can be found in Appendix L of the [Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines](#).

No

49. Will any tree cutting/trimming or other knocking or bringing down of trees be conducted during the Fall Swarming Season for tricolored bat?

Note: Bat activity periods for your state can be found in Appendix L of the [Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines](#).

No

50. Will any tree cutting/trimming or other knocking or bringing down of trees be conducted during the Pup Season for tricolored bat?

Note: Bat activity periods for your state can be found in Appendix L of the [Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines](#).

No

51. Do you have any documents that you want to include with this submission?

No

PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

2.0

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Matthew Deskevich
Address: 2568 Park Center Boulevard
City: State College
State: PA
Zip: 16801
Email: mdeskevich@hrg-inc.com
Phone: 8142387117



PENNSYLVANIA GAME COMMISSION

BUREAU OF WILDLIFE MANAGEMENT

2001 ELMERTON AVENUE HARRISBURG, PA 17110-9797 | (717) 787-5529

June 24, 2025

Matthew Deskevich
Herbert, Rowland & Grubic, Inc.
2568 Park Center Boulevard
State College, Pennsylvania 16801
mdeskevich@hrg-inc.com

Re: UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663 Phase 2
PNDI Receipt File: *project_receipt_uaja_meeks_lane_pump_stat_840756_FINAL_1.pdf*
Patton Township, Centre County, Pennsylvania

Dear Matthew Deskevich,

Thank you for submitting the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt File *project_receipt_uaja_meeks_lane_pump_stat_840756_FINAL_1.pdf* for review. The Pennsylvania Game Commission (PGC) screened this project for potential impacts to species and resources of concern under PGC responsibility, which includes birds and mammals only.

No Impact Anticipated – PNDI Species

PNDI records indicate species or resources of concern are located within the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, the PGC has determined that no impact is likely. Therefore, no further PNDI coordination with the PGC will be necessary for this project at this time.

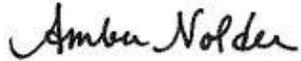
This response represents the most up-to-date summary of the PNDI data files and is valid for two (2) years from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on site. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered.

Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an “Update” (including an updated PNDI receipt, project narrative and accurate map). If the proposed work has not changed and no additional information concerning listed species is found, the project will be cleared for PNDI requirements under this agency for two additional years.

This finding applies to impacts to birds and mammals only. To complete your review of state and federally-listed threatened and endangered species and species of special concern, please be sure that the U.S. Fish and Wildlife Service, the PA Department of Conservation and Natural Resources, and/or the PA Fish and Boat

Commission have been contacted regarding this project as directed by the online PNDI ER Tool found at www.naturalheritage.state.pa.us.

Sincerely,



Amber Nolder
Wildlife Biologist
Bureau of Wildlife Management
Phone: 717-787-4250, Extension 73410
Fax: 717-787-6957
E-mail: anolder@pa.gov

A PNHP Partner



Pennsylvania Natural Heritage Program

ADN/adn

APPENDIX

D

Pennsylvania Historical and
Museum Commission
(PHMC) Correspondence





Herbert, Rowland & Grubic, Inc.
Engineering & Related Services

AN EMPLOYEE-OWNED COMPANY

2568 Park Center Boulevard
State College, PA 16801
814.238.7117
FAX 814.238.7126
www.hrg-inc.com

VIA EMAIL

April 13, 2020

Pennsylvania Historical and Museum Commission
State Historic Preservation Office
400 North Street
Commonwealth Keystone Building, 2nd Floor
Harrisburg, PA 17120-0093
RA-PH-PASHPO-ER@pa.gov

Re: Act 537 Special Study for the Meeks Lane Pump Station
University Area Joint Authority
Centre County, Pennsylvania

To whom this may concern:

Please find enclosed the completed Project Review Form and attachments for the University Area Joint Authority's 2020 Act 537 Sewage Facilities Plan Update: Special Study for the Meeks Lane Pump Station. The enclosed materials include the following:

- Project Review Form
- Project Area Map (USGS)
- Project Description
- Preliminary Site Plan

Thank you for consideration of this review. If you have any questions or require additional information, please contact our office.

Sincerely,
Herbert, Rowland & Grubic, Inc.

Shelby M. McVey, E.I.T.
Water and Wastewater Staff Professional

Enc.

C: File, (w/enc.)



PROJECT REVIEW FORM

Request to Initiate SHPO Consultation on State and Federal Undertakings

SHPO USE ONLY		Reviewers: _____ / _____
DATE RECEIVED:	DATE DUE:	
ER NUMBER:		HRSF: <input type="checkbox"/>

REV: 03/2020

SECTION A: PROJECT NAME & LOCATION

Is this a new submittal? YES NO OR This is additional information for ER Number:

Project Name Special Study, Meeks Lane Pump Station County Centre Municipality Patton Township
 Project Address 802 Meeks Lane City/State/ Zip Port Matilda, PA 16870

SECTION B: CONTACT INFORMATION & MAILING ADDRESS

Name Shelby McVey Phone (814) 238-7117
 Company Herbert, Rowland and Grubic, Inc. Fax
 Street/PO Box 2568 Park Center Boulevard Email smcvey@hrg-inc.com
 City/State/Zip State College, PA 16801 Email cc:

SECTION C: PROJECT DESCRIPTION

This project is located on: Federal property State property Municipal property Private property
 (check all that apply)

List all federal and state agencies and programs providing funds, permits, licenses.	Agency Type	Agency/Program/Permit Name	Project/Permit/Tracking Number (if applicable)
		State	PA DEP

Proposed Work – Attach project description, scope of work, site plans, and/or drawings

Project includes (check all that apply): Construction Demolition Rehabilitation Disposition

Total acres of project area: ~1.85 Total acres of earth disturbance: ~1.75

Are there any buildings or structures within the project area? Yes No Approximate age of buildings: 10 Years

Does this project involve properties listed in or eligible for the National Register of Historic Places, or locally designated? Inventory here: <https://gis.penndot.gov/crgis>
 Yes No Unsure Name _____
 Key Number _____

Please email this form and pdf attachments to:

RA-PH-PASHPO-ER@pa.gov

Or, please print and mail completed form and all attachments to:

PHMC- PA State Historic Preservation Office
 400 North Street
 Commonwealth Keystone Building, 2nd Floor
 Harrisburg, PA 17120-0093

Attachments – Please include the following information with this form

- Map** – 7.5' USGS quad, streetmap, or parcel map showing the project's Area of Potential Effect
- Description/Scope of Work**– Narrative description of the project, including any ground disturbance and previous land use, and any potential to impact historic resources
- Site Plans/Drawings** – Indicate location and age of buildings, any proposed improvements, and past and present land use
- Photographs** – Digital photographs of all buildings and structures on the project site, keyed to a site plan. For projects affecting buildings older than 50 years old use the Abbreviated HRSF

SHPO DETERMINATION (SHPO USE ONLY)

- There are **NO HISTORIC PROPERTIES** in the Area of Potential Effect The project will have **NO ADVERSE EFFECTS WITH CONDITIONS** (see attached)
- The project will have **NO EFFECT** on historic properties **SHPO REQUESTS ADDITIONAL INFORMATION** (see attached)
- The project will have **NO ADVERSE EFFECTS** on historic properties: _____ Key# _____

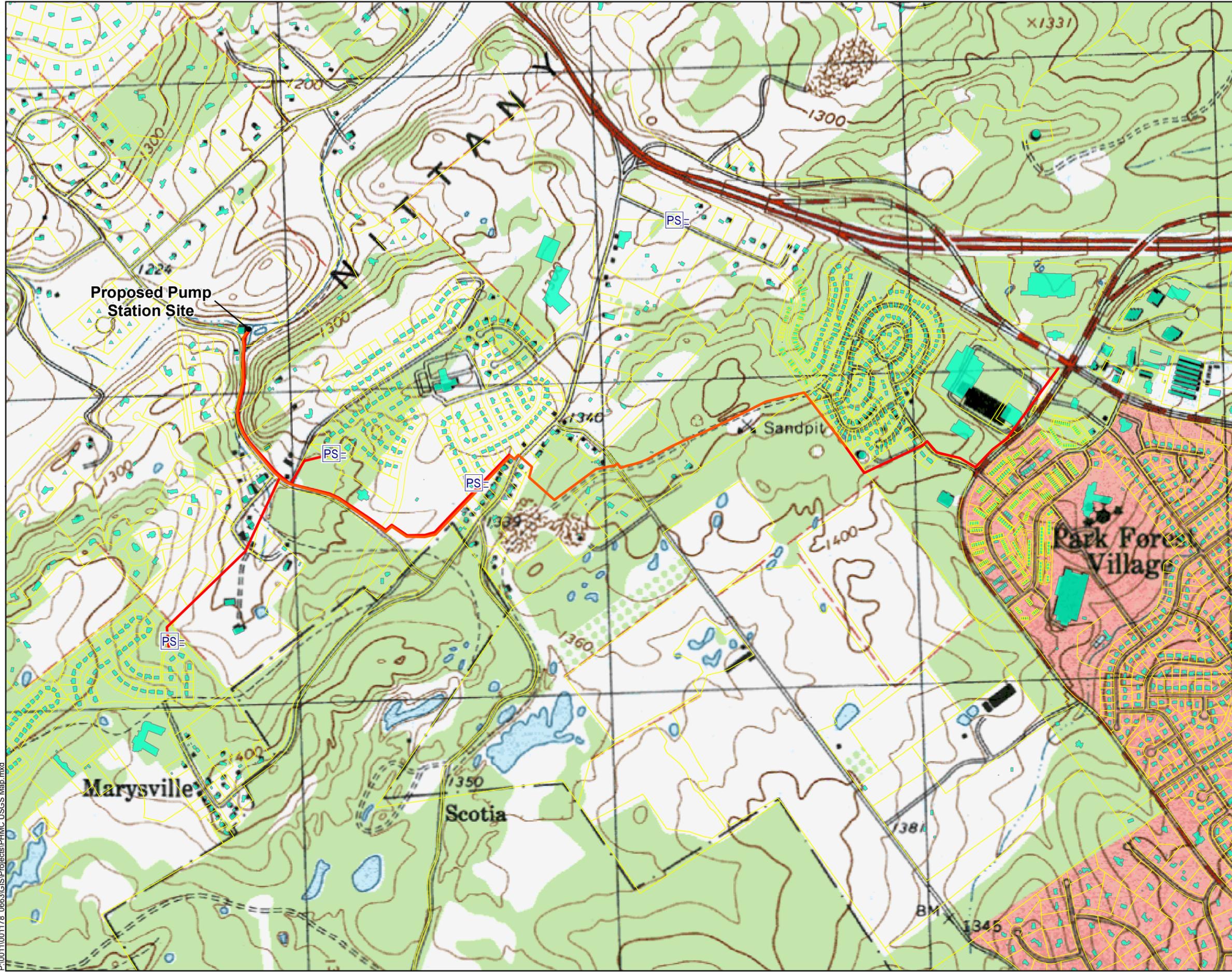
DIVISION CHIEF, ENVIRONMENTAL REVIEW:

DATE: _____

SHPO REVIEWER: _____

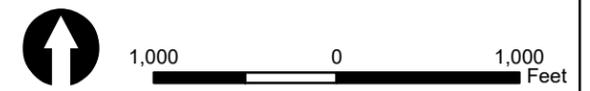
Project Area Map Act 537 Plan Update Special Study for the Meeks Lane Pump Station

Centre County, PA



Legend

- Existing Pump Stations
- Proposed Forcemain
- Proposed Gravity Main
- Parcels
- Buildings



USGS Quadrangle: Julian.

4/13/2020 PM: BRB GIS: SMM R001178.0663



2568 Park Center Boulevard
State College, PA 16801
814.238.7117 [phone]
814.238.7126 [fax]
www.hrg-inc.com

P:\0011001178_0663\GIS\Projects\PHMC USGS Map.mxd

PROJECT DESCRIPTION
2020 ACT 537 PLAN UPDATE: SPECIAL STUDY FOR THE
MEEKS LANE PUMP STATION
UNIVERSITY AREA JOINT AUTHORITY
COLLEGE TOWNSHIP, CENTRE COUNTY, PENNSYLVANIA

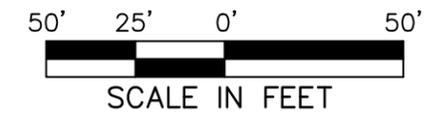
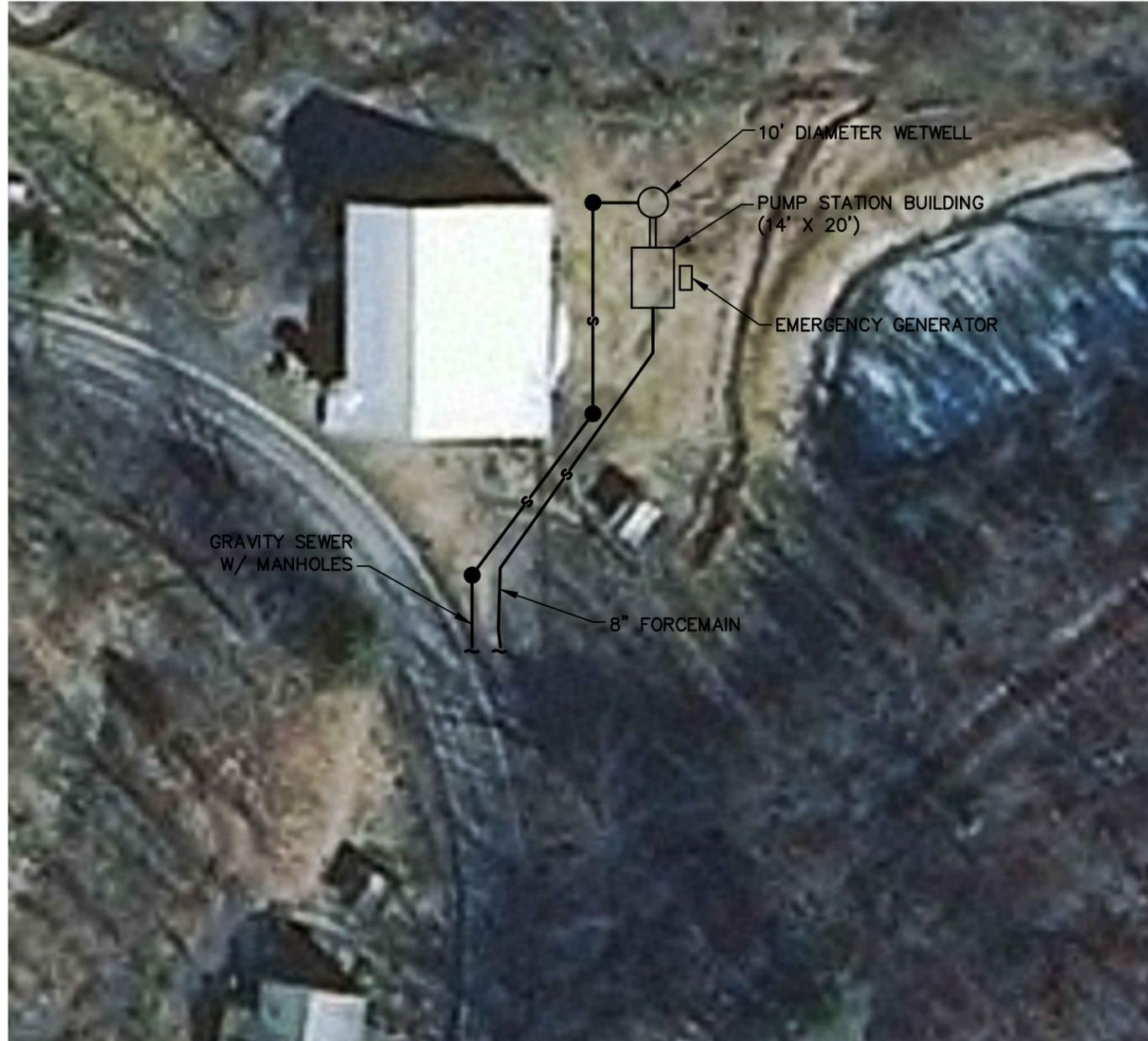
The University Area Joint Authority (UAJA) owns and operates the Centre Region's primary wastewater treatment facility, the Spring Creek Pollution Control Facility (SCPCF), located partially in Benner Township and partially in College Township, Centre County, PA. Wastewater generated in five municipalities (Patton Township, Ferguson Township, College Township, Harris Township, and State College Borough) and a portion from the Pennsylvania State University is conveyed to the SCPCF through a collection and conveyance system consisting of gravity lines, pump stations, and force mains.

Wastewater generated in the west Patton Township portion of the system is conveyed through a series of consecutive pump stations. Continued planned development within the area will result in the construction of at least three more pump stations, and in addition, recent planning level discussions have suggested the potential for an expansion of the sewer service area to portions of Halfmoon Township, which could result in additional pumping requirements beyond what is currently planned.

The major goal of this Special Study is to present an alternative conveyance method for west Patton Township and west Halfmoon Township, which generally consists of new gravity sewer interceptors and a single pump station. In addition, construction of the gravity collection lines would extend sewer service to residents along the northwest side of Scotia Road.

Because this review submission is required for an Act 537 Sewage Facilities Plan, detailed design drawings and plans have not yet been created. Once the Special Study has been approved by PA DEP, detailed design of the pump station and mains will take place, and the project will then need to be reviewed by PA SHPO again for various permit applications. A preliminary pump station site layout is attached. The site is located adjacent to the barn at the Spring Hollow Farm along Meeks Lane in Patton Township, Centre County.

File name: P:\001178_0586\Current Working Set\0011780586.dwg Layout: Exhibit 1 May 10, 2016 - 8:48am lconroy



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 Engineering & Related Services
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474 Windmere Drive
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 (814) 238-7117
 Fax (814) 238-7126
 hrg@hrg-inc.com
 www.hrg-inc.com

UNIVERSITY AREA JOINT AUTHORITY
 1576 SPRING VALLEY ROAD
 STATE COLLEGE PA, 16801

PUMP STATION SITE - GENERAL LAYOUT
 FOR
 MEEKS LANE PUMP STATION

PROJ. MGR. - BRB
DESIGN- BRB
CADD- KEC
CHECKED-BRB
SCALE- AS SHOWN
DATE- MAY 2016

DRAWING NO.
1
SHEET NO.
1 OF 1
PROJECT 1178.0586



PROJECT REVIEW FORM

Request to Initiate SHPO Consultation on State and Federal Undertakings

SHPO USE ONLY		Reviewers: _____ / _____
DATE RECEIVED:	DATE DUE:	
ER NUMBER:	HRSF: _____	

REV: 03/2020

SECTION A: PROJECT NAME & LOCATION

Is this a new submittal?	YES	NO	OR	This is additional information for ER Number:		
Project Name	County		Municipality			
Project Address	City/State/ Zip					

SECTION B: CONTACT INFORMATION & MAILING ADDRESS

Name	Phone
Company	Fax
Street/PO Box	Email
City/State/Zip	Email cc:

SECTION C: PROJECT DESCRIPTION

This project is located on: (check all that apply)	Federal property	State property	Municipal property	Private property
List all federal and state agencies and programs providing funds, permits, licenses.	Agency Type	Agency/Program/Permit Name	Project/Permit/Tracking Number (if applicable)	

Proposed Work – Attach project description, scope of work, site plans, and/or drawings

Project includes (check all that apply):	Construction	Demolition	Rehabilitation	Disposition
Total acres of project area:	Total acres of earth disturbance:			
Are there any buildings or structures within the project area?	Yes	No	Approximate age of buildings:	
Does this project involve properties listed in or eligible for the National Register of Historic Places, or locally designated? Inventory here: https://gis.penndot.gov/crgis	Yes	No	Unsure	Name _____
				Key Number _____

<p>Please email this form and pdf attachments to: RA-PH-PASHPO-ER@pa.gov</p> <p>Or, please print and mail completed form and all attachments to: PHMC- PA State Historic Preservation Office 400 North Street Commonwealth Keystone Building, 2nd Floor Harrisburg, PA 17120-0093</p>	<p>Attachments – Please include the following information with this form</p> <p>Map – 7.5' USGS quad, streetmap, or parcel map showing the project's Area of Potential Effect</p> <p>Description/Scope of Work– Narrative description of the project, including any ground disturbance and previous land use, and any potential to impact historic resources</p> <p>Site Plans/Drawings – Indicate location and age of buildings, any proposed improvements, and past and present land use</p> <p>Photographs – Attach digital photographs of the project site, including images of all buildings and structures keyed to a site plan, for buildings older than 50 years use the Abbreviated HRSF</p>
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SHPO DETERMINATION (SHPO USE ONLY)	
<p>There are NO HISTORIC PROPERTIES in the Area of Potential Effect</p> <p>The project will have NO EFFECT on historic properties</p> <p>The project will have NO ADVERSE EFFECTS on historic properties: _____ Key# _____</p>	<p>The project will have NO ADVERSE EFFECTS WITH CONDITIONS (see attached)</p> <p>SHPO REQUESTS ADDITIONAL INFORMATION (see attached)</p>
<p>DIVISION CHIEF, ENVIRONMENTAL REVIEW: _____ DATE: _____</p> <p style="text-align: right;">SHPO REVIEWER: _____</p>	

PROJECT

University Area Joint Authority - Act 537 Plan Update: Special Study for th...

2021PRO4937
Environmental Review

Project Summary

Project Name
University Area Joint Authority - Act 537 Plan Update: Special Study for the Meeks Lane Pump Station (Gray's Woods Buildout Conveyance Alignment)

Project Description
Construction of sanitary sewer conveyance line.

Legacy Number
No Data

Comments
No Data

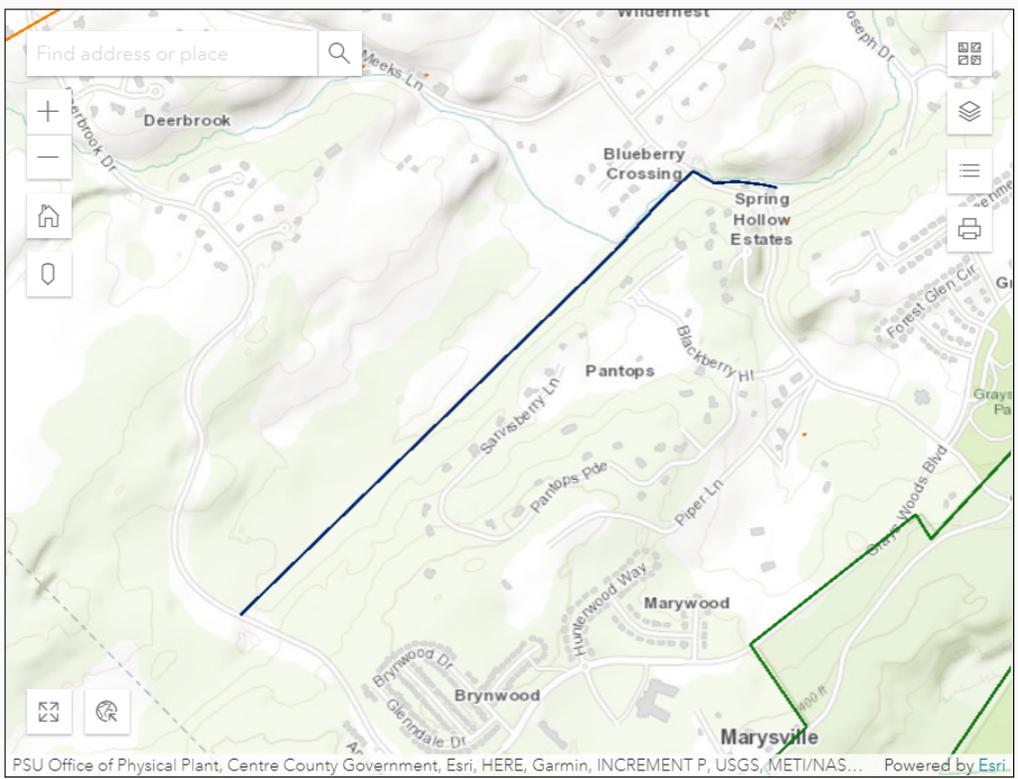
Date Created
06/28/2021

Created By
Sara-Ladd Clark

Date Closed
06/28/2021

Closed By
Sara-Ladd Clark

Submitted from PATH



PROJECT NARRATIVE

Act 537 Plan Update: Special Study for the Meeks Lane Pump Station

PA SHPO/PHMC- PA SHARE Submission Token: N22R9EIASO41

UNIVERSITY AREA JOINT AUTHORITY

PATTON TOWNSHIP, CENTRE COUNTY, PENNSYLVANIA

The University Area Joint Authority (UAJA) owns and operates the Centre Region's primary wastewater treatment facility, the Spring Creek Pollution Control Facility (SCPCF), located partially in Benner Township and partially in College Township, Centre County, PA. Wastewater generated in five municipalities (Patton Township, Ferguson Township, College Township, Harris Township, and State College Borough) and a portion from the Pennsylvania State University is conveyed to the SCPCF through a collection and conveyance system consisting of gravity lines, pump stations, and force mains.

Wastewater generated in the west Patton Township portion of the system is conveyed through a series of consecutive pump stations. Continued planned development within the area will result in the construction of at least three more pump stations, and in addition, recent planning level discussions have suggested the potential for an expansion of the sewer service area to portions of Halfmoon Township, which could result in additional pumping requirements beyond what is currently planned.

The major goal of this Special Study is to present an alternative conveyance method for west Patton Township and west Halfmoon Township, which generally consists of new gravity sewer interceptors and a single pump station.

Because this review submission is required for an Act 537 Sewage Facilities Plan, detailed design drawings and plans have not yet been created. A preliminary pump station site layout is attached. The site is located adjacent to the barn at the Spring Hollow Farm along Meeks Lane in Patton Township, Centre County.

A map showing the preliminary alignment of a sanitary sewer conveyance line is attached. Assuming a width of disturbance of 8 feet along the alignment (approximately 6,000 linear feet), impacts to 1.1 acres are anticipated at this time.

Note: A separate portion of the preliminary sanitary sewer and forcemain alignments was submitted previously for review on April 13, 2020 (ER NUMBER: 2020-1302-027-A).



[BUILDING RELATIONSHIPS.
DESIGNING SOLUTIONS.]

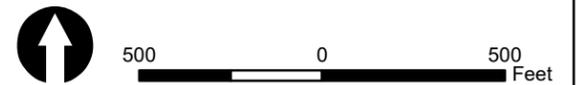
Project Area Map Act 537 Plan Update Special Study for the Meeks Lane Pump Station

(Gray's Woods Buildout Conveyance Alignment)

Centre County, PA

Legend

-  Buildings
-  Streams
-  Existing Pump Stations
- Proposed Gravity Main**
-  General Alignment



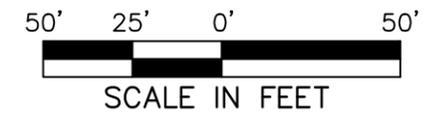
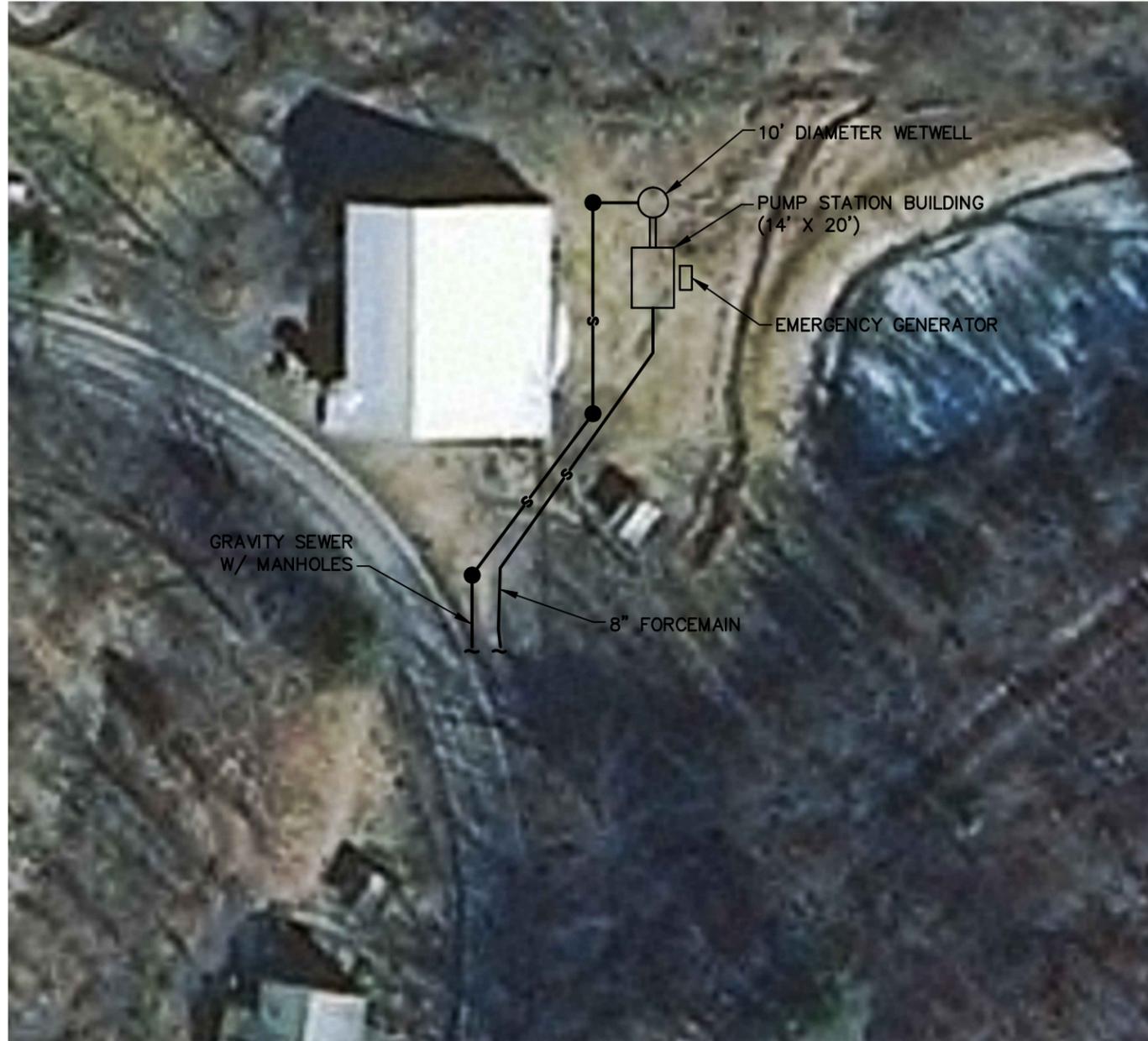
Mapping derived from data provided by:
PASDA, USFWS, & UAJA.

6/25/2021	PM: BRB	GIS: SMM	R001178.0663
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2568 Park Center Boulevard
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File name: P:\001178_0586\Current Working Set\0011780586.dwg Layout: Exhibit 1 May 10, 2016 - 8:48am lconroy



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UNIVERSITY AREA JOINT AUTHORITY
 1576 SPRING VALLEY ROAD
 STATE COLLEGE PA, 16801

PUMP STATION SITE - GENERAL LAYOUT
 FOR
 MEEKS LANE PUMP STATION

PROJ. MGR. - BRB
DESIGN- BRB
CADD- KEC
CHECKED-BRB
SCALE- AS SHOWN
DATE- MAY 2016

DRAWING NO.
1
SHEET NO.
1 OF 1
PROJECT 1178.0586



Pennsylvania State Historic Preservation Office

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION

June 28, 2021

Shelby McVey
Herbert, Rowland and Grubic, Inc.
2568 Park Center Boulevard
State College PA 168010000

RE: ER Project # 2021PR04937.001, University Area Joint Authority - Act 537 Plan Update: Special Study for the Meeks Lane Pump Station (Gray's Woods Buildout Conveyance Alignment), Department of Environmental Protection, Patton Township, Centre County

Dear Shelby McVey:

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Above Ground Resources

No Above Ground Concerns - Environmental Review - No Effect - Above Ground

Thank you for submitting information concerning the above-referenced project. There may be above ground historic properties within the project area of potential effect. However, in our opinion the project as proposed will have no effect on historic properties, should they exist. Should the scope of the project change and/or should you be made aware of historic property concerns, you will need to notify the PA SHPO at pashare@pa.gov and provide the revised designs for review and comment.

For questions concerning above ground resources, please contact Sara-Ladd Clark at saralclark@pa.gov.

Archaeological Resources

No Archaeological Concerns - Environmental Review - No Effect - Archaeological

Thank you for submitting information concerning the above-referenced project. There is a high probability that archaeological resources are located in this project area. Based on the information received and available in our files, in our opinion, the activity described in your proposal should have no effect on such resources. Should the scope of the project be amended to include additional ground disturbing activity and/or should you be made

aware of historic property concerns, you will need to notify the PA SHPO at pashare@pa.gov. A Phase I Archaeological Survey may be necessary to locate all potentially significant archaeological resources.

For questions concerning archaeological resources, please contact Sara-Ladd Clark at saralclark@pa.gov.

Sincerely,

A handwritten signature in blue ink that reads "Andrea MacDonald". The signature is written in a cursive style with a large initial 'A'.

Andrea MacDonald
Director, State Historic Preservation Office

PROJECT

UAJA Act 537 Plan Special Study for the Meeks Lane Pump Station - Ghaner Dr...

2021PR05146
 Environmental Review

Project Summary

Project Name

UAJA Act 537 Plan Special Study for the Meeks Lane Pump Station - Ghaner Drive Discharge Alternative

Project Description

Construction of wastewater forcemain/sanitary sewer line

Legacy Number

No Data

Comments

No Data

Date Created

07/13/2021

Created By

Sara-Ladd Clark

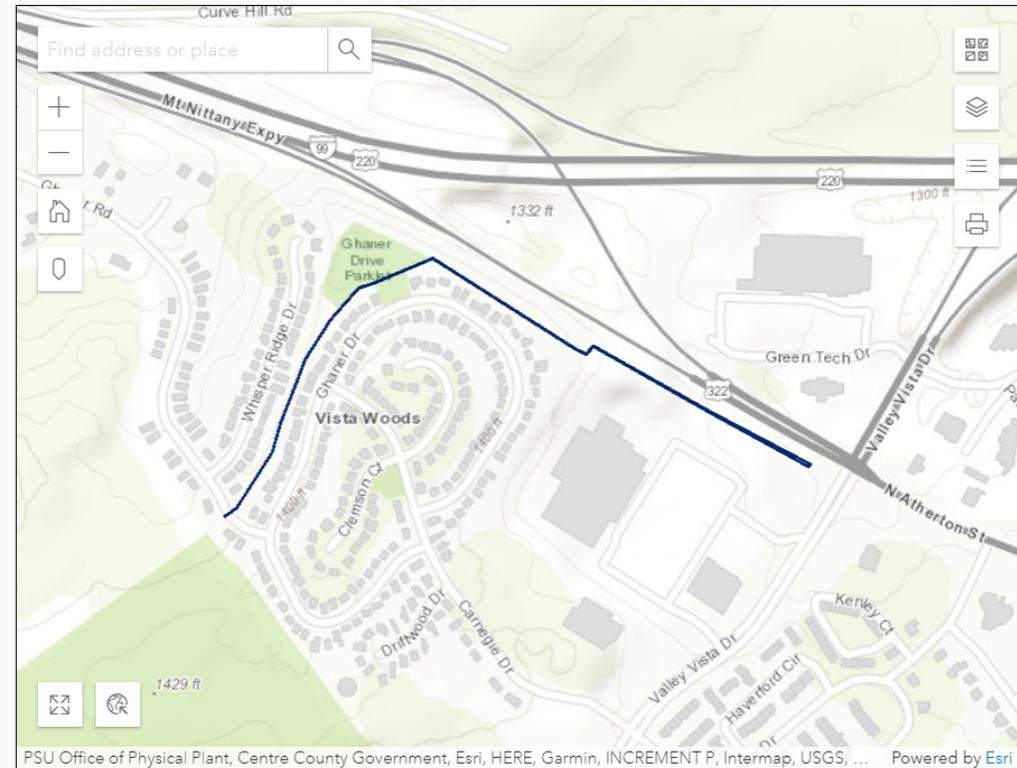
Date Closed

No Date

Closed By

No Data

Submitted from PATH



PROJECT NARRATIVE

Act 537 Plan Update: Special Study for the Meeks Lane Pump Station

PA SHPO/PHMC – PA SHARE Submission Token: G2XK18UOSJYD

UNIVERSITY AREA JOINT AUTHORITY

PATTON TOWNSHIP, CENTRE COUNTY, PENNSYLVANIA

The University Area Joint Authority (UAJA) owns and operates the Centre Region's primary wastewater treatment facility, the Spring Creek Pollution Control Facility (SCPCF), located partially in Benner Township and partially in College Township, Centre County, PA. Wastewater generated in five municipalities (Patton Township, Ferguson Township, College Township, Harris Township, and State College Borough) and a portion from the Pennsylvania State University is conveyed to the SCPCF through a collection and conveyance system consisting of gravity lines, pump stations, and force mains.

Wastewater generated in the west Patton Township portion of the system is conveyed through a series of consecutive pump stations. Continued planned development within the area will result in the construction of at least three more pump stations, and in addition, recent planning level discussions have suggested the potential for an expansion of the sewer service area to portions of Halfmoon Township, which could result in additional pumping requirements beyond what is currently planned.

The major goal of this Special Study is to present an alternative conveyance method for west Patton Township and west Halfmoon Township, which generally consists of new gravity sewer interceptors and a single pump station.

Because this review submission is required for an Act 537 Sewage Facilities Plan, detailed design drawings and plans have not yet been created. The site is located in Patton Township, Centre County.

A map showing the preliminary alignment of a wastewater forcemain alternative is attached. Assuming a width of disturbance of 8 feet along the alignment (approximately 3,300 linear feet), impacts to 0.6 acres are anticipated at this time.

Note: Separate portions of the preliminary sanitary sewer and forcemain alignments were submitted previously for review on April 13, 2020 (ER Number 2020-1302-027-A) and June 25, 2021 (N22R9EIASO41).

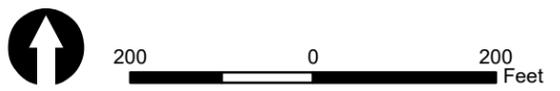
Project Area Map Act 537 Plan Update Special Study for the Meeks Lane Pump Station

(Ghaner Drive Discharge Alternative Alignment)

Centre County, PA

Legend

-  Buildings
-  Streams
-  Streets
- Proposed Forcemain**
-  General Alignment



Mapping derived from data provided by:
PASDA, USFWS, & UAJA.

7/13/2021 | PM: BRB | GIS: SMM | R001178.0663



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814.238.7126 [fax]
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P:\0011001178_0663\GIS\Projects\PNDI Update Alignment Map 2.mxd





Pennsylvania State Historic Preservation Office

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION

July 15, 2021

Shelby McVey
Herbert, Rowland and Grubic, Inc.
2568 Park Center Boulevard
State College PA 168010000

RE: ER Project # 2021PR05146.001, UAJA Act 537 Plan Special Study for the Meeks Lane Pump Station - Ghaner Drive Discharge Alternative, Department of Environmental Protection, Patton Township, Centre County

Dear Shelby McVey:

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Above Ground Resources

No Above Ground Concerns - Environmental Review - No Effect - Above Ground

Thank you for submitting information concerning the above-referenced project. There may be above ground historic properties within the project area of potential effect. However, in our opinion the project as proposed will have no effect on historic properties, should they exist. Should the scope of the project change and/or should you be made aware of historic property concerns, you will need to notify the PA SHPO at pashare@pa.gov and provide the revised designs for review and comment.

For questions concerning above ground resources, please contact Cheryl Nagle at chnagle@pa.gov.

Archaeological Resources

No Archaeological Concerns - Environmental Review - No Effect - Archaeological

Thank you for submitting information concerning the above-referenced project. Based on the information received and available in our files, in our opinion, the activity described in your proposal should have no effect on such resources. Our analysis indicates that archaeological resources are potentially located in this project area. Should the scope of the project be amended to include additional ground disturbing activity and/or should you

be made aware of historic property concerns, you will need to notify the PA SHPO at pashare@pa.gov. A Phase I Archaeological Survey may be necessary to locate all potentially significant archaeological resources.

For questions concerning archaeological resources, please contact Sara-Ladd Clark at saralclark@pa.gov.

Sincerely,

A handwritten signature in blue ink that reads "Andrea MacDonald". The signature is written in a cursive style with a large initial 'A'.

Andrea MacDonald
Director, State Historic Preservation Office

PROJECT

UAJA - Act 537 Plan Update: Special Study for the Meeks Lane Pump Station (...)

2022PR00070
Environmental Review

Project Summary

Project Name

UAJA - Act 537 Plan Update: Special Study for the Meeks Lane Pump Station (Whisper Ridge Backlot Alignment)

Project Description

Construction of sanitary sewer conveyance line.

Legacy Number

No Data

Comments

No Data

Date Created

01/07/2022

Created By

Sara-Ladd Clark

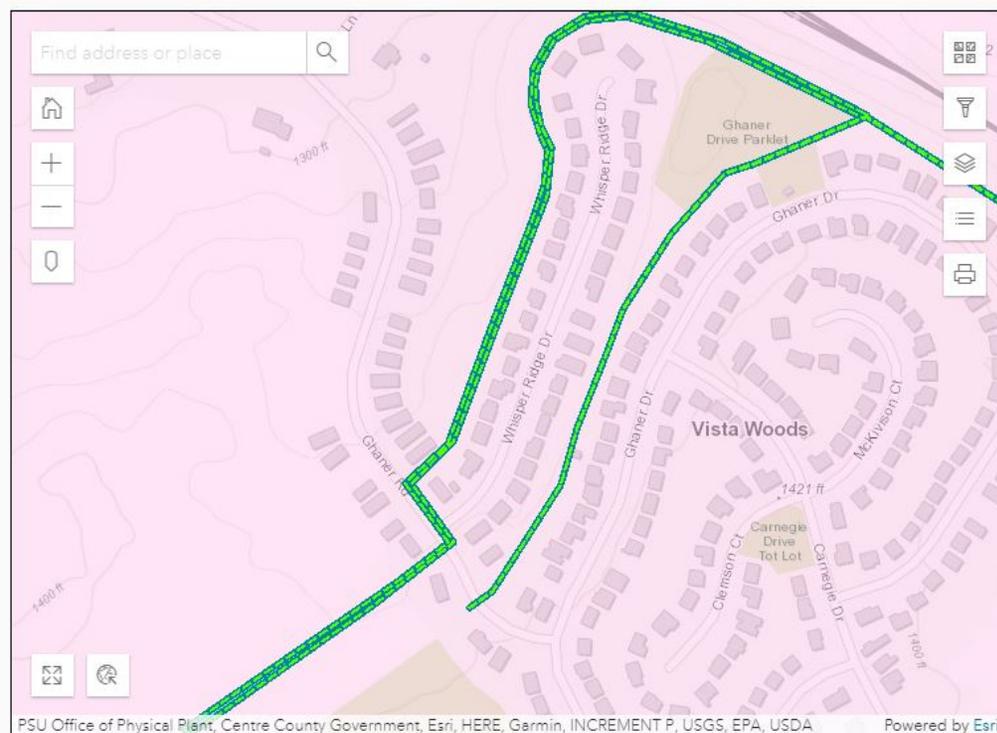
Date Closed

01/07/2022

Closed By

Sara-Ladd Clark

Submitted from PATH



PROJECT NARRATIVE

Act 537 Plan Update: Special Study for the Meeks Lane Pump Station

PA SHPO/PHMC – PA SHARE Submission Token: U2CTSA8WKEJX

UNIVERSITY AREA JOINT AUTHORITY

PATTON TOWNSHIP, CENTRE COUNTY, PENNSYLVANIA

The University Area Joint Authority (UAJA) owns and operates the Centre Region's primary wastewater treatment facility, the Spring Creek Pollution Control Facility (SCPCF), located partially in Benner Township and partially in College Township, Centre County, PA. Wastewater generated in five municipalities (Patton Township, Ferguson Township, College Township, Harris Township, and State College Borough) and a portion from the Pennsylvania State University is conveyed to the SCPCF through a collection and conveyance system consisting of gravity lines, pump stations, and force mains.

Wastewater generated in the west Patton Township portion of the system is conveyed through a series of consecutive pump stations. Continued planned development within the area will result in the construction of at least three more pump stations, and in addition, recent planning level discussions have suggested the potential for an expansion of the sewer service area to portions of Halfmoon Township, which could result in additional pumping requirements beyond what is currently planned.

The major goal of this Special Study is to present an alternative conveyance method for west Patton Township and west Halfmoon Township, which generally consists of new gravity sewer interceptors and a single pump station.

Because this review submission is required for an Act 537 Sewage Facilities Plan, detailed design drawings and plans have not yet been created.

A map showing the preliminary alignment of a sanitary sewer conveyance line is attached.

Assuming a width of disturbance of 8 feet along the alignment (approximately 2,750 linear feet), impacts to 0.51 acres are anticipated at this time.

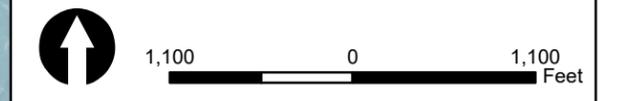
Note: Separate portions of the preliminary sanitary sewer and forcemain alignments were submitted previously for review on April 13, 2020 (ER Number 2020-1302-027-A) and June 25, 2021 (N22R9EIASO41) and July 13, 2021 (G2XK18UOSJYD).

Exhibit 5.D Meeks Lane Alternative C: Preliminary Alignment

Centre County, Pennsylvania

Legend

-  Streams
-  Municipal Boundaries
-  Sewer Service
-  UAJA Pump Stations
-  Existing Forcemain
-  Existing Gravity Sewer, Various Diameter
-  Existing Gravity Sewer, 8-inch Diameter, To Be Replaced
-  Existing Gravity Sewer, 12-inch Diameter, To Be Replaced
-  Preliminary Forcemain Alignment
-  Preliminary Gravity Conveyance Alignment



Mapping derived from data provided by CentreGIS.

1/6/2022	PM: BRB	GIS: SMM	R001178.0663
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State College, PA 16801
814.238.7117 [phone]
814.238.7126 [fax]
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Pennsylvania State Historic Preservation Office

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION

January 7, 2022

Shelby McVey
Herbert, Rowland & Grubic, Inc.
2568 Park Center Boulevard
State College PA 16801

RE: ER Project # 2022PR00070.001, UAJA - Act 537 Plan Update: Special Study for the Meeks Lane Pump Station (Whisper Ridge Backlot Alignment), Department of Environmental Protection, Patton Township, Centre County

Dear Shelby McVey:

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Above Ground Resources

No Above Ground Concerns - Environmental Review - No Effect - Above Ground

Based on the information received and available within our files, it is our opinion that the proposed project will have No Effect on above ground historic properties, including historic buildings, districts, structures, and/or objects, should they exist. Should the scope of the project change and/or should you be made aware of historic property concerns, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning above ground resources, please contact Sara-Ladd Clark at saralclark@pa.gov.

Archaeological Resources

No Archaeological Concerns - Environmental Review - No Effect - Archaeological

Based on the information received and available in our files, in our opinion, the proposed project should have No Effect on archaeological resources. Our analysis indicates that archaeological resources are potentially located in this project area. Should the scope of the project be amended to include additional ground-disturbing activity and/or should you be made aware of historic property concerns, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning archaeological resources, please contact Sara-Ladd Clark at saralclark@pa.gov.

Sincerely,

A handwritten signature in black ink that reads "Emma Diehl". The signature is written in a cursive, flowing style.

Emma Diehl
Environmental Review Division Manager

PROJECT

UAJA Act 537 Sewage Facilities Planning Special Study for the Meeks Lane Pu...

2022PR00984
Environmental Review

Project Summary

Project Name

UAJA Act 537 Sewage Facilities Planning Special Study for the Meeks Lane Pump Station (Alternative Pump Station Location)

Project Description

Construction of a wastewater pump station

Legacy Number

No Data

Comments

No Data

Date Created

03/08/2022

Created By

Sara-Ladd Clark

Date Closed

03/08/2022

Closed By

Sara-Ladd Clark

Submitted from PATH



PROJECT NARRATIVE

Act 537 Plan Update: Special Study for the Meeks Lane Pump Station

PA SHPO/PHMC – PA SHARE Submission Token: 2CF8CY63SAJO

UNIVERSITY AREA JOINT AUTHORITY

PATTON TOWNSHIP, CENTRE COUNTY, PENNSYLVANIA

The University Area Joint Authority (UAJA) owns and operates the Centre Region's primary wastewater treatment facility, the Spring Creek Pollution Control Facility (SCPCF), located partially in Benner Township and partially in College Township, Centre County, PA. Wastewater generated in five municipalities (Patton Township, Ferguson Township, College Township, Harris Township, and State College Borough) and a portion from the Pennsylvania State University is conveyed to the SCPCF through a collection and conveyance system consisting of gravity lines, pump stations, and force mains.

Wastewater generated in the west Patton Township portion of the system is conveyed through a series of consecutive pump stations. Continued planned development within the area will result in the construction of at least three more pump stations, and in addition, recent planning level discussions have suggested the potential for an expansion of the sewer service area to portions of Halfmoon Township, which could result in additional pumping requirements beyond what is currently planned.

The major goal of this Special Study is to present an alternative conveyance method for west Patton Township and west Halfmoon Township, which generally consists of new gravity sewer interceptors and a single pump station.

The area identified in this review submission represents a potential pump station location.

Because this review submission is required for an Act 537 Sewage Facilities Plan, detailed design drawings and plans have not yet been created.



Sellers Ln

Meeks Ln

Briar Ct

Meeks Ln

Google Earth

500 ft





Pennsylvania State Historic Preservation Office

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION

March 8, 2022

Shelby McVey
Herbert, Rowland & Grubic, Inc.
2568 Park Center Boulevard
State College PA 16801

RE: ER Project # 2022PR00984.001, UAJA Act 537 Sewage Facilities Planning Special Study for the Meeks Lane Pump Station (Alternative Pump Station Location), Department of Environmental Protection, Patton Township, Centre County

Dear Shelby McVey:

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Above Ground Resources

No Above Ground Concerns - Environmental Review - No Effect - Above Ground

Based on the information received and available within our files, it is our opinion that the proposed project will have No Effect on above ground historic properties, including historic buildings, districts, structures, and/or objects, should they exist. Should the scope of the project change and/or should you be made aware of historic property concerns, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning above ground resources, please contact Sara-Ladd Clark at saralclark@pa.gov.

Archaeological Resources

No Archaeological Concerns - Environmental Review - No Effect - Archaeological

Based on the information received and available in our files, in our opinion, the proposed project should have No Effect on archaeological resources. Our analysis indicates that archaeological resources are potentially located in this project area. Should the scope of the project be amended to include additional ground-disturbing activity and/or should you be made aware of historic property concerns, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning archaeological resources, please contact Sara-Ladd Clark at saralclark@pa.gov.

Sincerely,

A handwritten signature in black ink that reads "Emma Diehl". The signature is written in a cursive style with a long horizontal flourish at the end.

Emma Diehl
Environmental Review Division Manager

PROJECT

UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663 Phase ...

2025PR02745
Environmental Review

- Summary
- Submissions
- Photos
- Resources and Surveys

Project Summary

Project Name

UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663 Phase 2

Project Description

Construction of sanitary sewer conveyance line, forcemain , and adjacent pump station.

Legacy Number

No Data

Comments

No Data

Date Created

05/29/2025

Created By

Sara-Ladd Manley

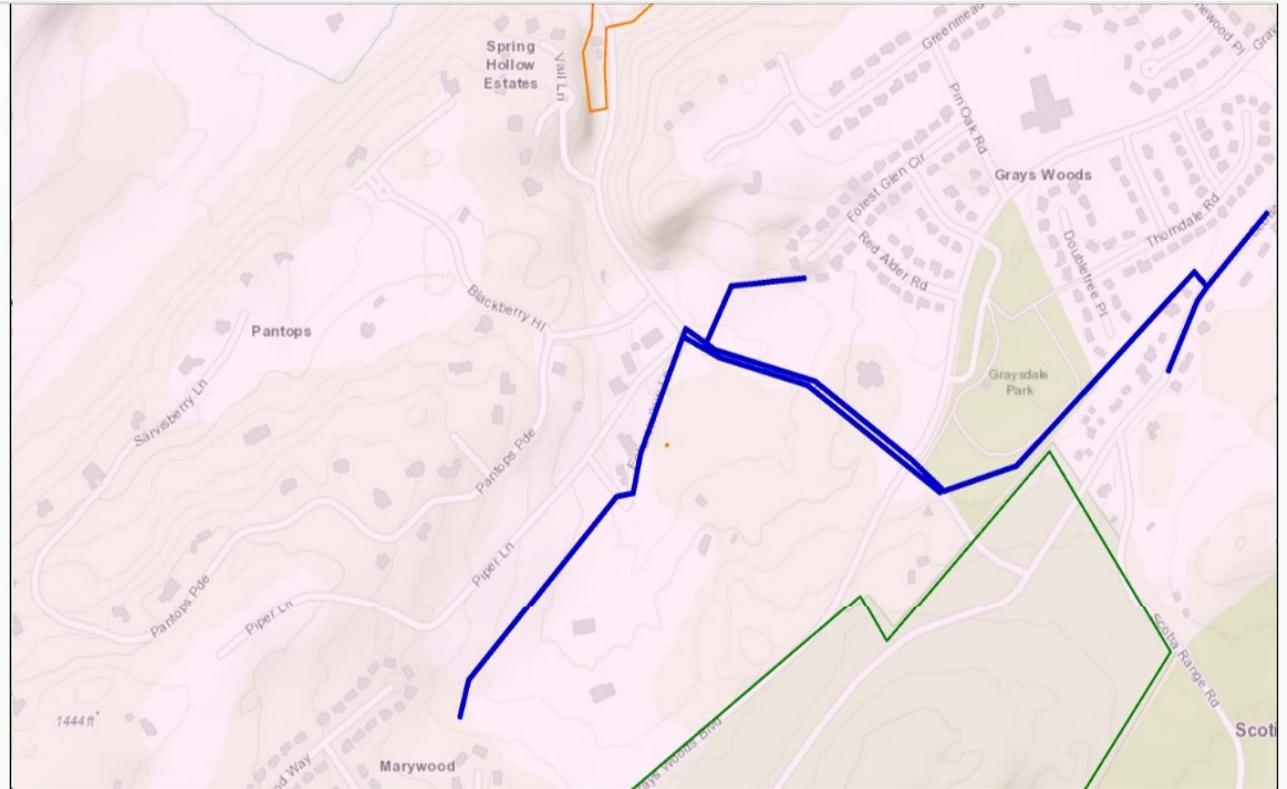
Date Closed

No Date

Closed By

No Data

Submitted from PATH



^ SCROLL TO TOP

📄 PROJECT PDF

PROJECT NARRATIVE

Act 537 Plan Update: Special Study for the Meeks Lane Pump Station

PA SHPO/PHMC – PA SHARE Submission Token: TETA7FROYTT

UNIVERSITY AREA JOINT AUTHORITY

PATTON TOWNSHIP, CENTRE COUNTY, PENNSYLVANIA

The University Area Joint Authority (UAJA) owns and operates the Centre Region's primary wastewater treatment facility, the Spring Creek Pollution Control Facility (SCPCF), located partially in Benner Township and partially in College Township, Centre County, PA. Wastewater generated in five municipalities (Patton Township, Ferguson Township, College Township, Harris Township, and State College Borough) and a portion from the Pennsylvania State University is conveyed to the SCPCF through a collection and conveyance system consisting of gravity lines, pump stations, and force mains.

Wastewater generated in the west Patton Township portion of the system is conveyed through a series of consecutive pump stations. Continued planned development within the area will result in the construction of at least three more pump stations, and in addition, recent planning level discussions have suggested the potential for an expansion of the sewer service area to portions of Halfmoon Township, which could result in additional pumping requirements beyond what is currently planned.

The major goal of this Special Study is to present an alternative conveyance method for west Patton Township and west Halfmoon Township, which generally consists of new gravity sewer interceptors and a single pump station.

The area identified in this review submission represents a potential pump station location and gravity sewer/ forcemain alignment.

Because this review submission is required for an Act 537 Sewage Facilities Plan, detailed design drawings and plans have not yet been created.

Exhibit 5.E Meeks Lane Alternative D Preliminary Alignment

Patton Township,
Centre County, Pennsylvania

Legend

-  Streams
-  Municipal Boundaries
-  Sewer Service Area
-  UAJA Pump Stations
-  Existing Force Main
-  Existing Gravity Sewer, Various Diameter
-  Existing Gravity Sewer, 8-inch Diameter, To Be Replaced
-  Existing Gravity Sewer, 12-inch Diameter, To Be Replaced
-  Preliminary Force Main Alignment
-  Preliminary Gravity Conveyance Alignment

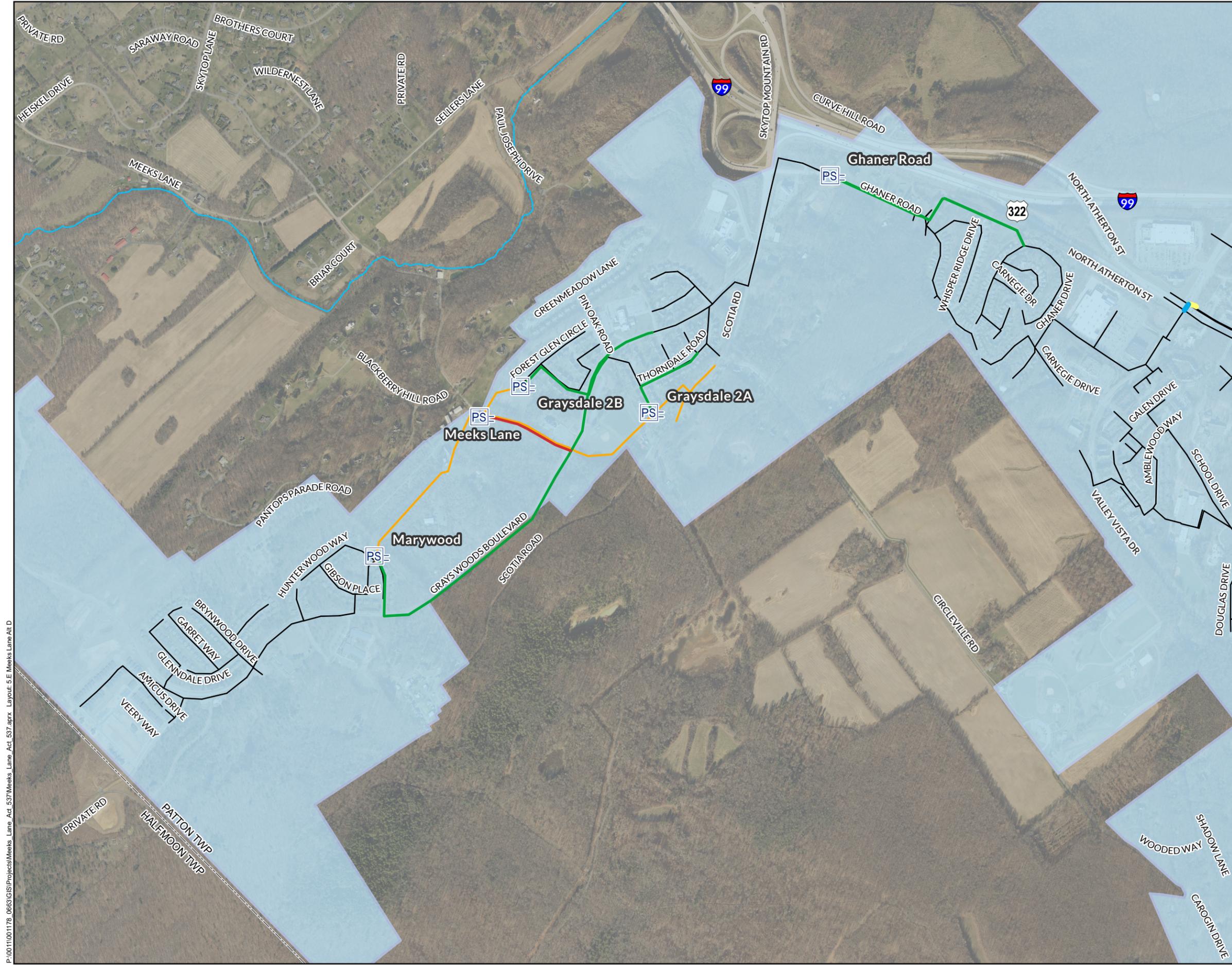


Mapping derived from data provided by CentreGIS & PASDA.

5/14/2025 | PM: BRB | GIS: ALV | QA: BRB | R001178.0663

HRG 2568 Park Center Boulevard
 State College, PA 16801
 814.238.7117 [phone]
 814.238.7126 [fax]
 www.hrg-inc.com

Herbert, Rowland & Grubic, Inc.
 Engineering & Related Services
 An Employee-Owned Company



P:\0011001178_0663\GIS\Projects\Meeks Lane Act 537\Meeks Lane Act 537.aprx Layout 5.E Meeks Lane Alt D

Exhibit 5.G Meeks Lane Pump Station; General Layout

Centre County, Pennsylvania

Legend

- Streets
- Preliminary Forcemain Alignment
- Preliminary Gravity Conveyance Alignment



Mapping derived from data provided by PASDA & CentreGIS.

6/3/2025	PM: BRB	GIS: ALV	R001178.0663
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HRG
Herbert, Rowland & Grubic, Inc.
Engineering & Related Services

2568 Park Center Boulevard
State College, PA 16801
814.238.7117 [phone]
814.238.7126 [fax]
www.hrg-inc.com

E:\001100178_0663\GIS\Projects\Meeks Lane Act 557.aprx



June 3, 2025

Sent Via PA-SHARE

RE: ER Project # 2025PR02745.001, UAJA Meeks Lane Pump Station Act 537 Plan Special Study R001178.0663 Phase 2, Environmental Protection Agency, Patton Township, Centre County

Dear Submitter,

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

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For questions concerning above ground resources, please contact Sara-Ladd Manley at samanley@pa.gov.

Archaeological Resources

No Archaeological Concerns - Environmental Review - No Effect - Archaeological

Based on the information received and available in our files, in our opinion, the proposed project should have No Effect on archaeological resources. Should the scope of the project be amended to include additional ground-disturbing activity and/or should you be made aware of historic property concerns regarding archaeological resources, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning archaeological resources, please contact Justin McKeel at jusmckeel@pa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Frederick". The signature is written in a cursive style with a large initial "B" and a distinct "F".

Barbara Frederick
Environmental Review Division Manager

APPENDIX

E

Proof of Publication
and Public Comments



NHL IN BRIEF

Notes

Sabres: The Jack Eichel era in Buffalo is over, with a nasty public eight-month feud reaching a conclusion on Thursday when the Sabres traded their former captain and face of the franchise to the Vegas Golden Knights.

The trade ends a stalemate between Eichel and Buffalo over how to repair his herniated disk, which has sidelined him since March. The dispute revolved around the NHL's collective bargaining agreement giving teams the final say over the treatment of injuries.

Though Eichel remains sidelined, the Golden Knights addressed their biggest long-term need, landing a top-line center, by trading forward Alex

Tuch, rookie center Peyton Krebs and two draft picks to the Sabres.

Eichel is expected to have the disk replacement surgery he preferred, though the recovery timetable means he'll likely miss most, if not all, of the remainder of the season. Sabres doctors favored Eichel having fusion surgery and opposed the disk replacement procedure because it has never been conducted on an NHL player.

Eichel was the Sabres' highest-paid player and is in the fourth year of an eight-year, \$80 million contract. He topped 20 goals in each of his first five seasons and enjoyed a breakout year in 2019-20, when he had a career-best 36 goals in 68 games before the season was abruptly canceled due to the coronavirus pandemic.

Wednesday's Games

Hurricanes 4, Blackhawks 3: Jesper Fast and Martin Necas scored 3:09 apart in the third period, and Carolina won in Chicago. Carolina matched a franchise record with its ninth straight victory.

Oilers 5, Predators 2: Leon Draisaitl had two goals and an assist to take the NHL scoring lead for host Edmonton. Draisaitl has 20 points on nine goals and 11 assists.

Blue Jackets 5, Avalanche 4: Jake Bean scored twice, including the winner 1:12 into overtime, for visiting Columbus.

Kings 3, Blues 2: Arthur Kaliyev scored in the fourth round of a shootout and host Los Angeles extended its winning streak to three games.

— ASSOCIATED PRESS

No. 5 Spartans' visit to Purdue tops Big Ten slate

BY ERIC OLSON
Associated Press

Things to watch during Week 10 of play in the Big Ten Conference:

GAME OF THE WEEK

No. 5 Michigan State at Purdue
The Spartans (8-0, 5-0, No. 3 CFP) have won eight straight against Purdue and three in a row in West Lafayette since 2007. But this is a tricky game. Michigan State is coming off the high of beating rival Michigan, and the Boilermakers have a habit of beating ranked teams. Mel Tucker has his team on high alert. The Boilermakers (5-3, 3-2), for a change, enter November with a lot at stake. They head into their first crossover game in a three-way tie for second place behind Minnesota in the Big Ten West.

BEST MATCHUP

Penn State at Maryland
This is an intriguing matchup because Penn State (5-3, 2-3) has lost three in a row. Maryland (5-3, 2-3) saw its offense spring to life again after it went dormant going through the Iowa-Ohio State-Minnesota gauntlet, and both teams need a win for bowl eligibility. Taulia Tagovailoa threw for a career-high 419



Kenneth Walker III and Michigan State beat rival Michigan last week, 37-33.

yards to lead the Terrapins past Indiana last week, and he has confidence from winning at Penn State last year.

INSIDE THE NUMBERS

Wisconsin (5-3, 3-2) goes into its game at Rutgers (4-4, 1-4) with a defense ranking in the top 10 nationally in every major category and allowing just 8.5 points and 180.3 yards per game during its four-game win streak. The Badgers have held four of their eight opponents to less than a yard per rushing attempt. ... Iowa's Spencer Petras enters his game at Northwestern (3-5, 1-4) having completed just 52% of his passes (43 of 82) for two touchdowns and 161 yards per

game, with five interceptions. The Hawkeyes (6-2, 3-2) are the only Big Ten team averaging fewer than 300 total yards per game.

LONG SHOT

Nebraska (3-6, 1-5) is a 14 1/2-point underdog at home against No. 6 Ohio State (7-1, 5-0, No. 5 CFP), according to FanDuel Sportsbook. As bad as the Cornhuskers have been, they have shown an ability to keep games close against ranked opponents. Just ask Oklahoma, Michigan State and Michigan. The Buckeyes must be careful not to look at this as a lull in their schedule before season-defining games later this month.



NOAH RIFFE nriffe@centredaily.com

Bellefonte's Nicholas Way looks for a pass during a high school football game between Bellefonte Area High School and Philipsburg-Osceola High School on Sept. 3 in Bellefonte, Pa.

FROM PAGE 1B

WEEK 1

nents 266-114 and has won six consecutive games. It has four shutouts on the year. Seth Laub has 32 carries for 444 rushing yards (13.9 yards per rush) for three rushing touchdowns. Laub also has 42 tackles (25 solo) with a sack and an interception.

PENNS VALLEY (6-4) AT BELLWOOD-ANTIS (9-1)

Time: 7 p.m.
Coaches: Martin Tobias (Penns Valley), Nick Lovrich (Bellwood-Antis)

Last Meeting: N/A
Players to Watch: QB Jackson Romig (Penns Valley), RB Connor Gibbons (Bellwood-Antis)

The Skinny: Penns Valley is coming off of a 45-14 thumping of Glendale, where the team fired on all cylinders. Quarterback Jackson Romig had three passing touchdowns and backup Jarrett Stover had a touchdown pass. The Rams coming off of

three consecutive blowout wins and are set to take on a powerhouse in Bellwood-Antis.

Bellwood-Antis has only dropped one game all season, against Juniata Valley 26-7 on Oct. 22. The Blue Devils have outscored opponents 312 to 67 on the year and have a 3-1 record at home. Connor Gibbons has been their bell cow at running back with 152 carries for 1,166 rushing yards (7.7 yards per carry) for 14 rushing touchdowns.

RIVER VALLEY (8-2) AT BALD EAGLE AREA (8-2)

Time: 7 p.m.
Coaches: Jess Houser (River Valley), Jesse Nagle (Bald Eagle)

Last Meeting: N/A
Players to Watch: RB/LB Angelo Bartolini (River Valley), WR/OLB Cam Watkins (Bald Eagle)

The Skinny: The majority of River Valley's wins have come on multi-

score leads. The Panthers have a 2-0 away record and have outscored opponents 325-144. Angelo Bartolini has dazzled as a runner this season. The senior has 1,273 rushing yards on 146 carries (8.7 yards per carry) for 20 rushing touchdowns. Bartolini has added 52 tackles (43 solo) on the year with six tackles for loss. He also has 8.5 sacks and an interception for 35 yards, three pass breakups and a fumble recovery.

Bald Eagle Area has had a strong year so far. The Eagles have outscored opponents 245-85 and only have two losses to Clearfield (21-0) and Jersey Shore (48-5). Watkins has 30 receptions for 406 receiving yards and seven touchdowns. He has 34 tackles on the season (25 solo) and 21 tackles for loss. He also leads the team in sacks with 9.5 sacks, two quarterback hurries and two pass deflections.

Kyle J. Andrews: 814-287-9230, @KyleJAndrews

FROM PAGE 1B

STATE COLLEGE

was just focused on getting to Erie and playing Erie (McDowell) in the tournament. I hurt my ankle earlier in the season. My ankle is better now and it's just easier for me to play."

Litzinger began the scoring onslaught for State College with a goal in the opening minutes for the team for the 1-0 lead. Owen Hollobaugh hit Davis Pagett with an assist to put State College up 2-0 with 12:45 left in the first half. Sam Cheslock assisted Mwangi at the 5:39 mark in the first half for a 3-0 advantage. To end the half, Cheslock had another assist to Alden Roth (0:13) for a 4-0 lead.

Cheslock began the second-half scoring (10:25). Litzinger finished off his second goal

(9:46) for a 6-0 lead. Kade Black had Altoona's lone goal of the game with less than four minutes left in the game and Diego Terrones answered with a goal for State College with less than three minutes remaining and the 7-1 lead.

With the win, State College will advance to play District 10 winner McDowell (16-2-0) in a sub-regional match on Saturday. The winner of that game will earn a bid to the first round of the PIAA championships.

STATE COLLEGE GIRLS VOLLEYBALL WINS DISTRICT 6 CHAMPIONSHIP

State College volleyball defeated Central Mountain in straight set, with scores of 25-17, 26-24, and

25-8, on Thursday at Tyrone to win the District 6 Class 4A championship.

Stat leaders for the Little Lions were: Kate Lally with 23 assists; Sam Shala with 11 assists and 9 kills; Claire Jordan with 13 kills; Sophie Wales with 10 kills; Molly Thompson with 11 digs; Jordan and Iris Archibald each with 7 digs; and Wales with 2 blocks.

While the score looks like an easy win for the Little Lions, they faced some adversity in the second set, finding themselves down by as much as eight points. But they were able to keep cool and battle back for the win.

State College will play in the opening round of the PIAA championships on Tuesday.

Kyle J. Andrews: 814-287-9230, @KyleJAndrews

Legals

ESTATE NOTICE

MARGARET P. KELLOGG, late of the Borough of Bellefonte, Centre County, Pennsylvania. Executor - Michael C. Kellogg, 200 Elmwood Street, State College, Pennsylvania 16801. Attorney - H. Denning Mason, Esquire, 817 East Bishop Street, Post Office Box 547, Bellefonte, Pennsylvania 16823. IPL0047134
Oct 29, Nov 5, 12 2021

ESTATE NOTICE

Edmond Marks, late of Ferguson Township, Centre County, PA

Lisa Marks Hamilton, 1806 Beckley Place, Kennesaw, GA 30152 - Executor

Richard L. Campbell, Esquire, MILLER, KISTLER & CAMPBELL, 720 South Atherton Street, State College, PA 16801. Attorney. IPL0047265
Oct 29, Nov 5, 12 2021

REQUEST FOR BIDS PUBLIC NOTICE IS HEREBY GIVEN that the Halfmoon Township Supervisors are accepting sealed bids for items as follows:

Equipment Services
Dump Truck, Backhoe, Tracker, Skidloader, Pickup Truck with Snow Plow, Single Axle Truck with Snow Plow and Spreader and a Mini-Excavator under 40 HP.

Aggregate
AS2 or AS4, 2A, 2B, 2RC, #3, #4, 25 MM Binder, DSA

Bituminous Materials
BCBC*: ID2 Wearing*; ID2 Binder*; ID3*: 25 MM Binder; QPR 2000; Fog Seal - square yard in place; E1 Prime - Cutback Petroleum Asphalt - Bituminous Prime Coat

* **Superpave asphalt mixture designs as described on the Official Halfmoon Township "Invitation to Bid" Form.**

Laborer
General Laborer

All interested bidders must obtain a bid package from the Township Office for bid specifications. Bids are due into the office of Halfmoon Township, 1948 Halfmoon Valley Road, Port Matilda, PA 16870, in Stormstown on or before 9:00 a.m., November 12th, 2021. Bids will be opened and read aloud at the Township Office on November 12th, 2021, at approximately 9:00 a.m. The Halfmoon Township Municipal Engineer will file a report of bids with the Board of Supervisors. The Board of Supervisors may award bids at their meeting scheduled for 7:00 p.m. on November 18th, 2021.

The Board of Supervisors reserves the right to accept or reject all or any portion of any or all bids.

Denise Gembusia
Manager
IPL0047577
Nov 5 2021

Name Change Notice

NOTICE IS HEREBY GIVEN that the Petition of: Myava Eun-Jung Thibault-Cuhel has been filed in the Centre County Court praying for a decree to change her name to Myava Vlastimila Thibault-Cuhel. The Court has fixed November 19th, 2021 at 2:00 pm CTRM. # 2 of the Centre Co. Courthouse, as the time and place for the hearing of said Petition, when and where all persons interested may appear and show cause, if any they have, why the prayer of said Petition should not be granted.
IPL0047762
Nov 5 2021

Notice of Public Comment Period Draft 2021 Centre Region Act 537 Sewage Facilities Plan Update: Special Study for the Meeks Lane Pump Station

Notice is hereby given that the University Area Joint Authority, Centre County, has prepared a Special Study to update the Centre Region Act 537 Sewage Facilities Plan. The Centre Region Act 537 Plan is the adopted sewage facilities plan for the Townships of College, Ferguson, Halfmoon, Harris and Patton and for the Borough of State College. The Centre Region Act 537 Plan addresses existing and future wastewater disposal needs in the six Centre Region municipalities.

The recommendation from the draft 2021 Centre Region Act 537 Sewage Facilities Plan Update: Special Study for the Meeks Lane Pump Station is to construct a new main pump station and forcemain that would allow for the abandonment of three existing pump stations and eliminate the need to construct at least three additional pump stations, providing a safer wastewater conveyance method. This will provide continued sanitary sewer conveyance for existing and future customers in west Patton Township.

Publication of this notice establishes a 30-day public comment period, commencing on Monday, November 8, 2021 and concluding at 5:00 PM on Wednesday, December 8, 2021. The draft 2021 Centre Region Act 537 Sewage Facilities Plan Update: Special Study is available on the internet at www.crcog.net, and at the office and the University Area Joint Authority (1576 Spring Valley Road, State College, PA 16801).

For more information or to provide comments on the draft 2021 Centre Region Act 537 Sewage Facilities Plan Update: Special Study, contact Corey Rilk, Senior Planner, Centre Regional Planning Agency, 2643 Gateway Drive, Suite 4, State College, PA 16801; Phone: 814-231-3050; Fax: 814-231-3083; email: creek@crcog.net.
IPL0048165
Nov 5 2021

Service Directory

Lawn/Garden/Landscaping/Trees

LANDSCAPE CARE
Mowing, Snow Removal,
Call George **814-238-0156**
Sr. Discounts!
www.aatrlandscap.com

Miscellaneous

Automotive

1993 Class A motorhome
good cond, 35k mi, \$3500
814-355-2282

SELL YOUR STUFF FAST!
814.238.5000
VISA, MASTERCARD, DISCOVER, AMERICAN EXPRESS

Classified **FIND. BUY. SELL.**
classifieds.centredaily.com

Miscellaneous

Merchandise
Piano \$100, analytical alex. mach \$150, doghouse \$35, pool table \$100, tissy lamp \$100, treadmill \$100, 2 sets of clubs \$100ea. 814-342-0322

Misc.
ELEGANT DINING ROOM SUITE
Glassfront cabinet, marbletop buffet, large table, 6 chairs, 2 w armrests. Images on request. Call 570 323 1040

Work for cash under the table part time cleaning in private home 814-206-4997

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CENTREDAILY.COM

TURN YOUR UNUSED ITEMS INTO COLD HARD CASH

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THANK YOU for your legal submission!

Your legal has been submitted for publication. Below is a confirmation of your legal placement. You will also receive an email confirmation.

ORDER DETAILS**Order Number:**

IPL0048165

Order Status:

Submitted

Classification:

Legals & Public Notices

Package:

STC - Legal Ads

Final Cost:

191.03

Payment Type:

Account Billed

User ID:

IPL0024340

PREVIEW FOR AD NUMBER IPL00481650**ACCOUNT INFORMATION**

UNIVERSITY AREA JOINT AUTHORITY IP
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
814-238-5361
brendab@uaja.org
UNIVERSITY AREA JOINT AUTHORITY

TRANSACTION REPORT**Date**

November 4, 2021 9:21:37 AM EDT

Amount:

191.03

SCHEDULE FOR AD NUMBER IPL00481650

November 5, 2021
Centre Daily Times (State College)

**Notice of Public Comment
Period
Draft 2021 Centre Region Act
537 Swage Facilities Plan
Update:
Special Study for the Meeks
Lane Pump Station**

Notice is hereby given that the University Area Joint Authority, Centre County, has prepared a Special Study to update the Centre Region Act 537 Sewage Facilities Plan. The Centre Region Act 537 Plan is the adopted sewage facilities plan for the Townships of College, Ferguson, Halfmoon, Harris and Patton and for the Borough of State College. The Centre Region Act 537 Plan addresses existing and future wastewater disposal needs in the six Centre Region municipalities.

The recommendation from the draft 2021 Centre Region Act 537 Sewage Facilities Plant Update: Special Study for the Meeks Lane Pump Station is to construct a new main pump station and forcemain that would allow for the abandonment of three existing pump stations and eliminate the need to construct at least three additional pump stations, providing a safer wastewater conveyance method. This will provide continued sanitary sewer conveyance for existing and future customers in west Patton Township.

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For more information or to provide comments on the draft 2021 Centre Region Act 537 Sewage Facilities Plan Update: Special Study, contact Corey Rilk, Senior Planner, Centre Regional Planning Agency, 2643 Gateway Drive, Suite 4, State College, PA 16801; Phone: 814-231-3050; Fax: 814-231-3083; email: crilk@crcog.net.

W00000000

Publication Dates

[<< Click here to print a printer friendly version >>](#)

APPENDIX

F

Miscellaneous
Correspondence



CRPA Centre Regional Planning Agency

2643 Gateway Drive, Suite #4 • State College, PA 16801 • Phone (814) 231-3050 • www.crcog.net

December 3, 2021

Mr. Cory Miller, Executive Director
University Area Joint Authority
1576 Spring Valley Road
State College, PA 16801

**RE: ACT 537 SEWAGE FACILITIES PLAN SPECIAL STUDY FOR THE MEEKS
LANE PUMP STATION**

Dear Mr. Miller:

At its meeting on December 3, 2021 the COG Public Services and Environmental/ Transportation and Land Use Joint Committee recommended that this Special Study be referred back to the UAJA and their consultants to amend the Special Study to resize the gravity line, pump station, and force main so that it does not include any equivalent dwelling units from Halfmoon Township. The most recent formal action by the Township was to not allow public sewer into the Township.

During its meeting on December 3, 2021, the Centre Regional Planning Commission also recommended the item be referred back to the UAJA and its consultants to be amended.

This item needs to be reviewed by the CRPC and Land Use and Community Infrastructure (LUCI) Committee before it can be referred to the General Forum for action.

Please call or e-mail if you have questions, or if you require additional information.

Sincerely,



Jim May, AICP
Director

cc: Corey Rilk, Senior Planner
Centre Regional Planning Commission
PSE/TLU Joint Committee

CRPA Centre Regional Planning Agency

2643 Gateway Drive, Suite #4 • State College, PA 16801 • Phone (814) 231-3050 • www.crcog.net

March 14, 2022

Mr. Cory Miller
Executive Director
University Area Joint Authority
1576 Spring Valley Road
State College, PA 16801

RE: MEEKS LANE ACT 537 PLAN SPECIAL STUDY – HALFMOON TOWNSHIP BOARD OF SUPERVISORS ACTION

Dear Mr. Miller:

At its meeting on March 10, 2022, the Halfmoon Township Board of Supervisors approved the following motion regarding the Meeks Lane Act 537 Plan Special Study:

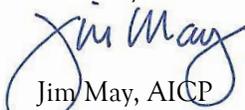
That the Halfmoon Township Board of Supervisors supports the Meeks Lane CRPA Alternative, which does not oversize the sewer main and sewage pump station.

By taking this action, the Board reaffirms that future land use planning in the Township does not warrant potential expansion of public sewer to the Township because the Township desires to remain rural. This is consistent with the wishes of the community to remain rural and the action that the previous Board took on February 14, 2019, not to expand public sewer into the Township.

The Board recognized that oversizing the facilities was good engineering practice, however it is not consistent with Township wishes. Oversizing facilities could imply that the Township supports higher density development on the east end of the Township. When the Act 537 Special Study is resubmitted to the CRPA it should be amended so that the sewer main and pump station be sized to serve future development inside the RGB and SSA only and not be oversized to serve any area outside of the RGB/SSA.

Please call or e-mail if you have questions or if you require additional information.

Sincerely



Jim May, AICP
Director

cc: Denise Gembusia, Township Manager
Eric Norenberg, COG Executive Director
Mark Boeckel, CRPA Principal Land Use Planner
Corey Rilk, CRPA Senior Planner

APPENDIX

G

Act 537 Checklist





ACT 537 PLAN CONTENT AND ENVIRONMENTAL ASSESSMENT CHECKLIST

PART 1 GENERAL INFORMATION

A. Project Information

1. Project Name 2021 Centre Region Act 537 Sewage Facilities Plan Update: Special Study for the Meeks Lane Pump Station

2. Brief Project Description The major goal of this Special Study is to present an alternative conveyance method which generally consists of new gravity sewer interceptors and a single pump station, allowing for the elimination of three existing pump stations and three planned pump stations.

B. Client (Municipality) Information

Municipality Name	County	City	Boro	Twp
Centre Region Council of Governments	Centre	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Additional Individual Last Name	First Name	MI	Suffix	Title

Municipality Mailing Address Line 1	Mailing Address Line 2	
2643 Gateway Drive		
Address Last Line -- City	State	ZIP+4
State College	PA	16801
Phone + Ext.	FAX (optional)	Email (optional)
814-231-3077		

C. Site Information

Site (or Project) Name	(Municipal Name) Act 537 Plan
Special Study	
Site Location Line 1	Site Location Line 2
Meeks Lane, Patton Township, Centre County	

D. Project Consultant Information

Last Name	First Name	MI	Suffix
Burns	Benjamin	R	P.E.
Title	Consulting Firm Name		
Project Manager, Water & Wastewater	Herbert, Rowland & Grubic, Inc.		
Mailing Address Line 1	Mailing Address Line 2		
2568 Park Center Boulevard			
Address Last Line -- City	State	ZIP+4	Country
State College	PA	16801	USA
Email	Phone + Ext.	FAX	
bburns@hrg-inc.com	814-238-7117		

PART 2 ADMINISTRATIVE COMPLETENESS CHECKLIST

DEP Use Only	Indicate Page #(s) in Plan	In addition to the main body of the plan, the plan must include items one through eight listed below to be accepted for formal review by DEP. Incomplete plans may be denied unless the municipality is clearly requesting an advisory review.
_____	<u>TOC</u>	1. Table of Contents 2. Plan Summary
_____	<u>I</u>	A. Identify the proposed service areas and major problems evaluated in the plan. (Reference - 25 Pa. Code §71.21(a)(7)(i)).
_____	<u>II</u>	B. Identify the alternative(s) chosen to solve the problems and serve the areas of need identified in the plan. Also, include any institutional arrangements necessary to implement the chosen alternative(s). (Reference - 25 Pa. Code §71.21(a)(7)(ii)).
_____	<u>V</u>	C. Present the estimated cost of implementing the proposed alternative (including the user fees) and the proposed funding method to be used. (Reference - 25 Pa. Code §71.21(a)(7)(ii)).
_____	<u>V</u>	D. Identify the municipal commitments necessary to implement the Plan. (Reference - 25 Pa. Code §71.21(a)(7)(iii)).
_____	<u>VI</u>	E. Provide a schedule of implementation for the project that identifies the major milestones with dates necessary to accomplish the project to the point of operational status. (Reference - 25 Pa. Code §71.21(a)(7)(iv)).
_____	<u>App I</u>	3. Municipal Adoption: <i>Original</i> , signed and sealed Resolution of Adoption by the municipality which contains, at a minimum, alternatives chosen and a commitment to implement the Plan in accordance with the implementation schedule. (Reference - 25 Pa. Code §71.31(f)) Section V.F. of the Planning Guide.
_____	<u>App F</u>	4. Planning Commission / County Health Department Comments: Evidence that the municipality has requested, reviewed and considered comments by appropriate official planning agencies of the municipality, planning agencies of the county, planning agencies with area wide jurisdiction (where applicable), and any existing county or joint county departments of health. (Reference - 25 Pa. Code §71.31(b)) Section V.E.1 of the Planning Guide.
_____	<u>App E</u>	5. Publication: Proof of Public Notice which documents the proposed plan adoption, plan summary, and the establishment and conduct of a 30-day comment period. (Reference - 25 Pa. Code §71.31(c)) Section V.E.2 of the Planning Guide.
_____	<u>App E</u>	6. Comments and Responses: Copies of all written comments received and municipal response to each comment in relation to the proposed plan. (Reference - 25 Pa. Code §71.31(c)) Section V.E.2 of the Planning Guide.
_____	<u>Ch 8</u>	7. Implementation Schedule: A complete project implementation schedule with milestone dates specific for each existing and future area of need. Other activities in the project implementation schedule should be indicated as occurring a finite number of days from a major milestone. (Reference - 25 Pa. Code §71.31(d)) Section V.F. of the Planning Guide. Include dates for the future initiation of feasibility evaluations in the project's implementation schedule for areas proposing completion of sewage facilities for planning periods in excess of five years. (Reference - 25 Pa. Code §71.21(c)).
_____	<u>NA</u>	8. Consistency Documentation: Documentation indicating that the appropriate agencies have received, reviewed and concurred with the method proposed to resolve identified inconsistencies within the proposed alternative and consistency requirements in 25 Pa. Code §71.21.(a)(5)(i-iii). (Reference - 25 Pa. Code §71.31(e)). Appendix B of the Planning Guide.

PART 3 GENERAL PLAN CONTENT CHECKLIST

DEP Use Only	Indicate Page #(s) in Plan	Item Required
_____	<u>Ch 1</u>	I. Previous Wastewater Planning
_____	1-1 to 1-3	A. Identify, describe and briefly analyze all past wastewater planning for its impact on the current planning effort:
_____	<u>N/A</u>	1. Previously undertaken under the Pennsylvania Sewage Facilities Act (Act). (Reference - Act 537, 35 P.S. §750.5(d)(1)).
_____	<u>N/A</u>	2. Has not been carried out according to an approved implementation schedule contained in the plans. (Reference - 25 Pa. Code §71.21(a)(5)(i)(A-D)). Section V.F of the Planning Guide.
_____	<u>N/A</u>	3. Is anticipated or planned by applicable sewer authorities or approved under a Chapter 94 Corrective Action Plan. (Reference - 25 Pa. Code §71.21(a)(5)(i)(A&B)). Section V.D. of the Planning Guide.
_____	<u>N/A</u>	4. Through planning modules for new land development, planning “exemptions” and addenda. (Reference - 25 Pa. Code §71.21(a)(5)(i)(A)).
_____	<u>Ch 2</u>	II. Physical and Demographic Analysis utilizing written description and mapping (All items listed below require maps, and all maps should show all current lots and structures and be of appropriate scale to clearly show significant information).
_____	<u>2-1, Exhibit2.B</u>	A. Identification of planning area(s), municipal boundaries, Sewer Authority/Management Agency service area boundaries. (Reference – 25 Pa. Code §71.21(a)(1)(i)).
_____	<u>2-2, Exhibit2.G</u>	B. Identification of physical characteristics (streams, lakes, impoundments, natural conveyance, channels, drainage basins in the planning area). (Reference - 25 Pa. Code §71.21(a)(1)(ii)).
_____	<u>2-2, Exhibit2.C</u>	C. Soils - Analysis with description by soil type and soils mapping for areas not presently served by sanitary sewer service. Show areas suitable for in-ground onlot systems, elevated sand mounds, individual residential spray irrigation systems (IRSIS), and areas unsuitable for soil dependent systems. (Reference - 25 Pa. Code §71.21(a)(1)(iii)). Show Prime Agricultural Soils and any locally protected agricultural soils. (Reference - 25 Pa. Code §71.21(a)(1)(iii)).
_____	<u>2-2, Exhibit2.D</u>	D. Geologic Features - (1) Identification through analysis, (2) mapping and (3) their relation to existing or potential nitrate-nitrogen pollution and drinking water sources. Include areas where existing nitrate-nitrogen levels are in excess of 5 mg/L. (Reference - 25 Pa. Code §71.21(a)(1)(iii)).
_____	<u>2-2, Exhibit2.E</u>	E. Topography - Depict areas with slopes that are suitable for conventional systems; slopes that are suitable for elevated sand mounds and slopes that are unsuitable for onlot systems. (Reference - 25 Pa. Code §71.21(a)(1)(ii)).
_____	<u>2-2, Exhibit2.F</u>	F. Potable Water Supplies - Identification through mapping, description and analysis. Include public water supply service areas and available public water supply capacity and aquifer yield for groundwater supplies. (Reference - 25 Pa. Code §71.21(a)(1)(vi)). Section V.C. of the Planning Guide.
_____	<u>2-2, Exhibit2.G</u>	G. Wetlands-Identify wetlands as defined in 25 Pa. Code Chapter 105 by description, analysis and mapping. Include National Wetland Inventory mapping and potential wetland areas per the United States Department of Agricultural (USDA) Natural Resources Conservation Service (NRCS) mapped hydric soils. Proposed collection, conveyance and treatment facilities and lines must be located and labeled, along with the identified wetlands, on the map. (Reference - 25 Pa. Code §71.21(a)(1)(v)). Appendix B, Section II.I of the Planning Guide.

<u> </u>	<u>Ch 3</u>	III.	Existing Sewage Facilities in the Planning Area - Identifying the Existing Needs
		A.	Identify, map and describe municipal and non-municipal, individual and community sewerage systems in the planning area including:
<u> </u>	<u>3-1 to 3-2</u>	1.	Location, size and ownership of treatment facilities, main intercepting lines, pumping stations and force mains including their size, capacity, point of discharge. Also include the name of the receiving stream, drainage basin, and the facility's effluent discharge requirements. (Reference - 25 Pa. Code §71.21(a)(2)(i)(A)).
<u> </u>	<u>N/A</u>	2.	A narrative and schematic diagram of the facility's basic treatment processes including the facility's National Pollutant Discharge Elimination System (NPDES) permitted capacity, and the Clean Streams Law permit number. (Reference - 25 Pa. Code §71.21(a)(2)(i)(A)).
<u> </u>	<u>3-2 to 3-3</u>	3.	A description of problems with existing facilities (collection, conveyance and/or treatment), including existing or projected overload under 25 Pa. Code Chapter 94 (relating to municipal wasteload management) or violations of the NPDES permit, Clean Streams Law permit, or other permit, rule or regulation of DEP. (Reference - 25 Pa. Code §71.21(a)(2)(i)(B)).
<u> </u>	<u>N/A</u>	4.	Details of scheduled or in-progress upgrading or expansion of treatment facilities and the anticipated completion date of the improvements. Discuss any remaining reserve capacity and the policy concerning the allocation of reserve capacity. Also discuss the compatibility of the rate of growth to existing and proposed wastewater treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(i & ii)).
<u> </u>	<u>N/A</u>	5.	A detailed description of the municipality's operation and maintenance (O & M) requirements for small flow treatment facility systems, including the status of past and present compliance with these requirements and any other requirements relating to sewage management programs (SMPs). (Reference - 25 Pa. Code §71.21(a)(2)(i)(C)).
<u> </u>	<u>N/A</u>	6.	Disposal areas, if other than stream discharge, and any applicable groundwater limitations. (Reference - 25 Pa. Code §71.21(a)(4)(i & ii)).
<u> </u>	<u>3-3</u>	B.	Using DEP's publication titled <i>Act 537 Sewage Disposal Needs Identification</i> (3800-BK-DEP1949), identify, map and describe areas that utilize individual and community onlot sewage disposal and, unpermitted collection and disposal systems ("wildcat" sewers, borehole disposal, etc.) and retaining tank systems in the planning area including:
<u> </u>	<u>3-3</u>	1.	The types of onlot systems in use. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(A)).
<u> </u>	<u>N/A</u>	2.	A sanitary survey complete with description, map and tabulation of documented and potential public health, pollution, and operational problems (including malfunctioning systems) with the systems, including violations of local ordinances, the Act, the Clean Stream Law or regulations promulgated thereunder. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(B)).
<u> </u>	<u>N/A</u>	3.	A comparison of the types of onlot sewage systems installed in an area with the types of systems which are appropriate for the area according to soil, geologic conditions, topographic limitations sewage flows, and 25 Pa. Code Chapter 73 (relating to standards for sewage disposal facilities). (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
<u> </u>	<u>N/A</u>	4.	An individual water supply survey to identify possible contamination by malfunctioning onlot sewage disposal systems consistent with DEP's <i>Act 537 Sewage Disposal Needs Identification</i> publication. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(B)).

<hr/>	<u>N/A</u>	5. Detailed description of O & M requirements of the municipality for individual and small volume community onlot systems, including the status of past and present compliance with these requirements and any other requirements relating to SMPs. (Reference - 25 Pa. Code §71.21(a)(2)(i)(C)).
<hr/>	<u>N/A</u>	C. Identify wastewater sludge and septage generation, transport and disposal methods. Include this information in the sewage facilities alternative analysis including:
<hr/>	<u>N/A</u>	1. Location of sources of wastewater sludge or septage (Septic tanks, holding tanks, wastewater treatment facilities). (Reference – 25 Pa. Code §71.71).
<hr/>	<u>N/A</u>	2. Quantities of the types of sludges or septage generated. (Reference - 25 Pa. Code §71.71).
<hr/>	<u>N/A</u>	3. Present disposal methods, locations, capacities and transportation methods. (Reference - 25 Pa. Code §71.71).
<hr/>	<u>Ch 4</u>	IV. Future Growth and Land Development
<hr/>		A. Identify and briefly summarize all municipal and county planning documents adopted pursuant to the Pennsylvania Municipalities Planning Code (Act 247) including:
<hr/>	<u>4-1, Exhibit4.A</u>	1. All land use plans and zoning maps that identify residential, commercial, industrial, agricultural, recreational and open space areas. (Reference - 25 Pa. Code §71.21(a)(3)(iv)).
<hr/>	<u>4-1</u>	2. Zoning or subdivision regulations that establish lot sizes predicated on sewage disposal methods. (Reference – 25 Pa. Code §71.21(a)(3)(iv)).
<hr/>	<u>4-1</u>	3. All limitations and plans related to floodplain and stormwater management and special protection (25 Pa. Code Chapter 93) areas. (Reference - 25 Pa. Code §71.21(a)(3)(iv)) Appendix B, Section II.F of the Planning Guide.
<hr/>	<u>4-2 to 4-4</u>	B. Delineate and describe the following through map, text and analysis.
<hr/>	<u>4-2</u>	1. Areas with existing development or plotted subdivisions. Include the name, location, description, total number of equivalent dwelling units (EDUs) in development, total number of EDUs currently developed and total number of EDUs remaining to be developed (include time schedule for EDUs remaining to be developed). (Reference - 25 Pa. Code §71.21(a)(3)(i)).
<hr/>	<u>4-1, Exhibit4.B</u>	2. Land use designations established under the Pennsylvania Municipalities Planning Code (35 P.S. 10101-11202), including residential, commercial and industrial areas. (Reference - 25 Pa. Code §71.21(a)(3)(ii)). Include a comparison of proposed land use as allowed by zoning and existing sewage facility planning. (Reference - 25 Pa. Code §71.21(a)(3)(iv)).
<hr/>	<u>4-2 to 4-4</u>	3. Future growth areas with population and EDU projections for these areas using historical, current and future population figures and projections of the municipality. Discuss and evaluate discrepancies between local, county, state and federal projections as they relate to sewage facilities. (Reference - 25 Pa. Code §71.21(a)(1)(iv) and (a)(3)(iii)).
<hr/>	<u>4-1</u>	4. Zoning, and/or subdivision regulations; local, county or regional comprehensive plans; and existing plans of any other agency relating to the development, use and protection of land and water resources with special attention to: (Reference - 25 Pa. Code §71.21(a)(3)(iv)). --public ground/surface water supplies --recreational water use areas --groundwater recharge areas --industrial water use --wetlands

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|---------------|-------------------|---|
| <u> </u> | <u>4-2 to 4-4</u> | 5. Sewage planning necessary to provide adequate wastewater treatment for 5 and 10-year future planning periods based on projected growth of existing and proposed wastewater collection and treatment facilities. (Reference - 25 Pa. Code §71.21(a)(3)(v)). |
| <u> </u> | <u>Ch 5</u> | V. Identify Alternatives to Provide New or Improved Wastewater Disposal Facilities |
| <u> </u> | <u>N/A</u> | A. Conventional collection, conveyance, treatment and discharge alternatives including: |
| <u> </u> | <u>N/A</u> | 1. The potential for regional wastewater treatment. (Reference - 25 Pa. Code §71.21(a)(4)). |
| <u> </u> | <u>N/A</u> | 2. The potential for extension of existing municipal or non-municipal sewage facilities to areas in need of new or improved sewage facilities. (Reference - 25 Pa. Code §71.21(a)(4)(i)). |
| <u> </u> | <u>5-1 to 5-4</u> | 3. The potential for the continued use of existing municipal or non-municipal sewage facilities through one or more of the following: (Reference - 25 Pa. Code §71.21(a)(4)(ii)). |
| <u> </u> | <u>N/A</u> | a. Repair. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(A)). |
| <u> </u> | <u>5-1 to 5-3</u> | b. Upgrading. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(B)). |
| <u> </u> | <u>N/A</u> | c. Reduction of hydraulic or organic loading to existing facilities. (Reference - 25 Pa. Code §71.71). |
| <u> </u> | <u>N/A</u> | d. Improved O & M. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(C)). |
| <u> </u> | <u>N/A</u> | e. Other applicable actions that will resolve or abate the identified problems. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(D)). |
| <u> </u> | <u>N/A</u> | 4. Repair or replacement of existing collection and conveyance system components. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(A)). |
| <u> </u> | <u>N/A</u> | 5. The need for construction of new community sewage systems including sewer systems and/or treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(iii)). |
| <u> </u> | <u>N/A</u> | 6. Use of innovative/alternative methods of collection/conveyance to serve needs areas using existing wastewater treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(B)). |
| <u> </u> | <u>N/A</u> | B. The use of individual sewage disposal systems including IRSIS systems based on: |
| <u> </u> | <u>N/A</u> | 1. Soil and slope suitability. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)). |
| <u> </u> | <u>N/A</u> | 2. Preliminary hydrogeologic evaluation. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)). |
| <u> </u> | <u>N/A</u> | 3. The establishment of a SMP. (Reference - 25 Pa. Code §71.21(a)(4)(iv)). See also Part "F" below. |
| <u> </u> | <u>N/A</u> | 4. The repair, replacement or upgrading of existing malfunctioning systems in areas suitable for onlot disposal considering: (Reference - 25 Pa. Code §71.21(a)(4)). |
| <u> </u> | <u>N/A</u> | a. Existing technology and sizing requirements of 25 Pa. Code Chapter 73. (Reference - 25 Pa. Code §73.31-§73.72). |
| <u> </u> | <u>N/A</u> | b. Use of expanded absorption areas or alternating absorption areas. (Reference - 25 Pa. Code §73.16). |
| <u> </u> | <u>N/A</u> | c. Use of water conservation devices. (Reference - 25 Pa. Code §71.73(b)(2)(iii)). |

- _____ N/A C. The use of small flow sewage treatment facilities or package treatment facilities to serve individual homes or clusters of homes with consideration of: (Reference - 25 Pa. Code §71.64(d)).
- _____ N/A 1. Treatment and discharge requirements. (Reference - 25 Pa. Code §71.64(d)).
- _____ N/A 2. Soil suitability. (Reference - 25 Pa. Code §71.64(c)(1)).
- _____ N/A 3. Preliminary hydrogeologic evaluation. (Reference - 25 Pa. Code §71.64(c)(2)).
- _____ N/A 4. Municipal, Local Agency or other controls over O & M requirements through a SMP. (Reference - 25 Pa. Code §71.64(d)). See Part "F" below.
- _____ N/A D. The use of community land disposal alternatives including:
- _____ N/A 1. Soil and site suitability. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
- _____ N/A 2. Preliminary hydrogeologic evaluation. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
- _____ N/A 3. Municipality, Local Agency or other controls over O & M requirements through a SMP. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)). See Part "F" below.
- _____ N/A 4. The rehabilitation or replacement of existing malfunctioning community land disposal systems. (See Part "V", B, 4, a, b, c above). See also Part "F" below.
- _____ N/A E. The use of retaining tank alternatives on a temporary or permanent basis including: (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ N/A 1. Commercial, residential and industrial use. (Reference - 25 Pa. Code §71.63(e)).
- _____ N/A 2. Designated conveyance facilities (pumper trucks). (Reference - 25 Pa. Code §71.63(b)(2)).
- _____ N/A 3. Designated treatment facilities or disposal site. (Reference - 25 Pa. Code §71.63(b)(2)).
- _____ N/A 4. Implementation of a retaining tank ordinance by the municipality. (Reference - 25 Pa. Code §71.63(c)(3)). See Part "F" below.
- _____ N/A 5. Financial guarantees when retaining tanks are used as an interim sewage disposal measure. (Reference - 25 Pa. Code §71.63(c)(2)).
- _____ N/A F. SMPs to assure the future O & M of existing and proposed sewage facilities through:
- _____ N/A 1. Municipal ownership or control over the O & M of individual onlot sewage disposal systems, small flow treatment facilities, or other traditionally non-municipal treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(iv)).
- _____ N/A 2. Required inspection of sewage disposal systems on a schedule established by the municipality. (Reference - 25 Pa. Code §71.73(b)(1)).
- _____ N/A 3. Required maintenance of sewage disposal systems including septic and aerobic treatment tanks and other system components on a schedule established by the municipality. (Reference - 25 Pa. Code §71.73(b)(2)).
- _____ N/A 4. Repair, replacement or upgrading of malfunctioning onlot sewage systems. (Reference - 25 Pa. Code §71.21(a)(4)(iv) and §71.73(b)(5)) through:
- _____ N/A a. Aggressive pro-active enforcement of ordinances that require O & M and prohibit malfunctioning systems. (Reference - 25 Pa. Code §71.73(b)(5)).
- _____ N/A b. Public education programs to encourage proper O & M and repair of sewage disposal systems.
- _____ N/A 5. Establishment of joint municipal SMPs. (Reference - 25 Pa. Code

- _____ §71.73(b)(8)).
- _____ N/A 6. Requirements for bonding, escrow accounts, management agencies or associations to assure O & M for non-municipal facilities. (Reference - 25 Pa. Code §71.71).
- _____ N/A G. Non-structural comprehensive planning alternatives that can be undertaken to assist in meeting existing and future sewage disposal needs including: (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ N/A 1. Modification of existing comprehensive plans involving:
- _____ N/A a. Land use designations. (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ N/A b. Densities. (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ N/A c. Municipal ordinances and regulations. (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ N/A d. Improved enforcement. (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ N/A e. Protection of drinking water sources. (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ N/A 2. Consideration of a local comprehensive plan to assist in producing sound economic and consistent land development. (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ N/A 3. Alternatives for creating or changing municipal subdivision regulations to assure long-term use of on-site sewage disposal that consider lot sizes and protection of replacement areas. (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ N/A 4. Evaluation of existing local agency programs and the need for technical or administrative training. (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ 5-4 H. A no-action alternative which includes discussion of both short-term and long-term impacts on: (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ 5-4 1. Water quality/public health. (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ 5-4 2. Growth potential (residential, commercial, industrial). (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ N/A 3. Community economic conditions. (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ N/A 4. Recreational opportunities. (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ N/A 5. Drinking water sources. (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ N/A 6. Other environmental concerns. (Reference - 25 Pa. Code §71.21(a)(4)).

_____ Ch 6 **VI. Evaluation of Alternatives**

- _____ A. Technically feasible alternatives identified in Section V of this checklist must be evaluated for consistency with respect to the following: (Reference - 25 Pa. Code §71.21(a)(5)(i)).
- _____ 6-2 1. Applicable plans developed and approved under **Sections 4 and 5 of the Clean Streams Law or Section 208 of the Clean Water Act** (33 U.S.C.A. 1288). (Reference - 25 Pa. Code §71.21(a)(5)(i)(A)). Appendix B, Section II.A of the Planning Guide.
- _____ 6-2 2. Municipal wasteload management **Corrective Action Plans or Annual Reports** developed under 25 Pa. Code Chapter 94. (Reference - 25 Pa. Code §71.21(a)(5)(i)(B)). The municipality's recent Wasteload Management (25 Pa. Code Chapter 94) Reports should be examined to determine if the proposed alternative is consistent with the recommendations and findings of the report. Appendix B, Section II.B of the Planning Guide.
- _____ 6-2 3. Plans developed under **Title II of the Clean Water Act** (33 U.S.C.A.

1281-1299) or **Titles II and VI of the Water Quality Act of 1987** (33 U.S.C.A 1251-1376). (Reference - 25 Pa. Code §71.21(a)(5)(i)(C)). Appendix B, Section II.E of the Planning Guide.

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| _____ | <u>6-3</u> | 4. Comprehensive plans developed under the Pennsylvania Municipalities Planning Code. (Reference - 25 Pa. Code §71.21(a)(5)(i)(D)). The municipality's comprehensive plan must be examined to assure that the proposed wastewater disposal alternative is consistent with land use and all other requirements stated in the comprehensive plan. Appendix B, Section II.D of the Planning Guide. |
| _____ | <u>6-3</u> | 5. Antidegradation requirements as contained in 25 Pa. Code Chapters 93, 95 and 102 (relating to water quality standards, wastewater treatment requirements and erosion control) and the Clean Water Act. (Reference - 25 Pa. Code §71.21(a)(5)(i)(E)). Appendix B, Section II.F of the Planning Guide. |
| _____ | <u>6-3</u> | 6. State Water Plans developed under the Water Resources Planning Act (42 U.S.C.A. 1962-1962 d-18). (Reference - 25 Pa. Code §71.21(a)(5)(i)(F)). Appendix B, Section II.C of the Planning Guide. |
| _____ | <u>6-3</u> | 7. Pennsylvania Prime Agricultural Land Policy contained in Title 4 of the Pennsylvania Code, Chapter 7, Subchapter W. Provide narrative on local municipal policy and an overlay map on prime agricultural soils. (Reference - 25 Pa. Code §71.21(a)(5)(i)(G)). Appendix B, Section II.G of the Planning Guide. |
| _____ | <u>6-3</u> | 8. County Stormwater Management Plans approved by DEP under the Storm Water Management Act (32 P.S. 680.1-680.17). (Reference - 25 Pa. Code §71.21(a)(5)(i)(H)). Conflicts created by the implementation of the proposed wastewater alternative and the existing recommendations for the management of stormwater in the county Stormwater Management Plan must be evaluated and mitigated. If no plan exists, no conflict exists. Appendix B, Section II.H of the Planning Guide. |
| _____ | <u>6-3</u> | 9. Wetland Protection. Using wetland mapping developed under Checklist Section II.G, identify and discuss mitigative measures including the need to obtain permits for any encroachments on wetlands from the construction or operation of any proposed wastewater facilities. (Reference - 25 Pa. Code §71.21(a)(5)(i)(I)) Appendix B, Section II.I of the Planning Guide. |
| _____ | <u>6-4 to 6-6</u> | 10. Protection of rare, endangered or threatened plant and animal species as identified by the Pennsylvania Natural Diversity Inventory (PNDI). (Reference - 25 Pa. Code §71.21(a)(5)(i)(J)). Provide DEP with a copy of the completed <i>PNDI Manual Project Submission Form</i> . Also provide a copy of the response letters from the 4 jurisdictional agencies regarding the findings of the PNDI search. Appendix B, Section II.J of the Planning Guide. |
| _____ | <u>6-6</u> | 11. Historical and archaeological resource protection under P.C.S. Title 37, Section 507 relating to cooperation by public officials with the Pennsylvania Historical and Museum Commission (PHMC). (Reference - 25 Pa. Code §71.21(a)(5)(i)(K)). Provide DEP with a completed copy of a <i>Cultural Resource Notice</i> and a return receipt for its submission to PHMC. Provide a copy of the response letter or review stamp from the Bureau of Historic Preservation (BHP) indicating the project will have no effect on, or that there may be potential impacts on, known archaeological and historical sites and any avoidance and mitigation measures required. Appendix B, Section II.K of the Planning Guide. |

- | | | |
|-------|-------------------|---|
| _____ | <u>App C</u> | B. Provide for the resolution of any inconsistencies in any of the points identified in Section VI.A. of this checklist by submitting a letter from the appropriate agency stating that the agency has received, reviewed and concurred with the resolution of identified inconsistencies. (Reference - 25 Pa. Code §71.21(a)(5)(ii). Appendix B of the Planning Guide. |
| _____ | <u>N/A</u> | C. Evaluate alternatives identified in Section V of this checklist with respect to applicable water quality standards, effluent limitations or other technical, legislative or legal requirements. (Reference - 25 Pa. Code §71.21(a)(5)(iii)). |
| _____ | <u>6-1, App B</u> | D. Provide cost estimates using present worth analysis for construction, financing, ongoing administration, O & M and user fees for alternatives identified in Section V of this checklist. Estimates shall be limited to areas identified in the plan as needing improved sewage facilities within 5 years from the date of plan submission. (Reference - 25 Pa. Code §71.21(a)(5)(iv)). |
| _____ | <u>6-2</u> | E. Provide an analysis of the funding methods available to finance the proposed alternatives evaluated in Section V of this checklist. Also provide documentation to demonstrate which alternative and financing scheme combination is the most cost-effective; and a contingency financial plan to be used if the preferred method of financing cannot be implemented. The funding analysis shall be limited to areas identified in the plan as needing improved sewage facilities within 5 years from the date of the plan submission. (Reference - 25 Pa. Code §71.21(a)(5)(v)). |
| _____ | <u>N/A</u> | F. Analyze the need for immediate or phased implementation of each alternative proposed in Section V of this checklist including: (Reference - 25 Pa. Code §71.21(a)(5)(vi)). |
| _____ | <u>N/A</u> | 1. A description of any activities necessary to abate critical public health hazards pending completion of sewage facilities or implementation of SMPs. (Reference - 25 Pa. Code §71.21(a)(5)(vi)(A)). |
| _____ | <u>N/A</u> | 2. A description of the advantages, if any, in phasing construction of the facilities or implementation of a SMP justifying time schedules for each phase. (Reference - 25 Pa. Code §71.21(a)(5)(vi)(B)). |
| _____ | <u>N/A</u> | G. Evaluate administrative organizations and legal authority necessary for plan implementation. (Reference - 25 Pa. Code §71.21(a)(5)(vi)(D)). |
| _____ | <u>Ch 7</u> | VII. Institutional Evaluation |
| _____ | <u>N/A</u> | A. Provide an analysis of all existing wastewater treatment authorities, their past actions and present performance including: |
| _____ | <u>7-1</u> | 1. Financial and debt status. (Reference - 25 Pa. Code §71.61(d)(2)). |
| _____ | <u>7-1</u> | 2. Available staff and administrative resources. (Reference - 25 Pa. Code §71.61(d)(2)) |
| _____ | <u>7-1</u> | 3. Existing legal authority to: |
| _____ | <u>7-1</u> | a. Implement wastewater planning recommendations. (Reference - 25 Pa. Code §71.61(d)(2)). |
| _____ | <u>7-1</u> | b. Implement system-wide O & M activities. (Reference - 25 Pa. Code §71.61(d)(2)). |
| _____ | <u>7-1</u> | c. Set user fees and take purchasing actions. (Reference - 25 Pa. Code §71.61(d)(2)). |
| _____ | <u>7-1</u> | d. Take enforcement actions against ordinance violators. (Reference - 25 Pa. Code §71.61(d)(2)). |
| _____ | <u>7-1</u> | e. Negotiate agreements with other parties. (Reference - 25 Pa. Code §71.61(d)(2)). |

- _____ 7-1 f. Raise capital for construction and O & M of facilities. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ 7-1 B. Provide an analysis and description of the various institutional alternatives necessary to implement the proposed technical alternatives including:
- _____ N/A 1. Need for new municipal departments or municipal authorities. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ 7-1 2. Functions of existing and proposed organizations (sewer authorities, onlot maintenance agencies, etc.). (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ N/A 3. Cost of administration, implementability, and the capability of the authority/agency to react to future needs. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ N/A C. Describe all necessary administrative and legal activities to be completed and adopted to ensure the implementation of the recommended alternative including:
- _____ N/A 1. Incorporation of authorities or agencies. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ N/A 2. Development of all required ordinances, regulations, standards and inter-municipal agreements. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ N/A 3. Description of activities to provide rights-of-way, easements and land transfers. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ N/A 4. Adoption of other municipal sewage facilities plans. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ N/A 5. Any other legal documents. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ N/A 6. Dates or timeframes for items 1-5 above on the project's implementation schedule.
- _____ 7-1 D. Identify the proposed institutional alternative for implementing the chosen technical wastewater disposal alternative. Provide justification for choosing the specific institutional alternative considering administrative issues, organizational needs and enabling legal authority. (Reference - 25 Pa. Code §71.61(d)(2)).

- _____ Ch 8 **VIII. Implementation Schedule and Justification for Selected Technical & Institutional Alternatives**
- _____ 8-1 A. Identify the technical wastewater disposal alternative which best meets the wastewater treatment needs of each study area of the municipality. Justify the choice by providing documentation which shows that it is the best alternative based on:
- _____ 8-1 1. Existing wastewater disposal needs. (Reference - 25 Pa. Code §71.21(a)(6)).
- _____ 8-1 2. Future wastewater disposal needs. (5 and 10 year growth areas). (Reference - 25 Pa. Code §71.21(a)(6)).
- _____ 8-1 3. O & M considerations. (Reference - 25 Pa. Code §71.21(a)(6)).
- _____ 8-1 4. Cost-effectiveness. (Reference - 25 Pa. Code §71.21(a)(6)).
- _____ 8-1 5. Available management and administrative systems. (Reference - 25 Pa. Code §71.21(a)(6)).
- _____ 8-1 6. Available financing methods. (Reference - 25 Pa. Code §71.21(a)(6)).
- _____ 8-1 7. Environmental soundness and compliance with natural resource planning and preservation programs. (Reference - 25 Pa. Code §71.21(a)(6)).

- _____ 8-1 B. Designate and describe the capital financing plan chosen to implement the selected alternative(s). Designate and describe the chosen back-up financing plan. (Reference - 25 Pa. Code §71.21(a)(6))
- _____ 8-2 C. Designate and describe the implementation schedule for the recommended alternative, including justification for any proposed phasing of construction or implementation of a SMP. (Reference – 25 Pa. Code §71.31(d))

- _____ N/A
- _____ N/A

IX. Environmental Report (ER) generated from the UER Process

- A. Complete an ER as required by the UER process and as described in the DEP Technical Guidance (381-5511-111). Include this document as “Appendix A” to the Act 537 Plan Update Revision. **Note: An ER is required only for Wastewater projects proposing funding through any of the funding sources identified in the UER.**

ADDITIONAL REQUIREMENTS FOR PENNVEST PROJECTS

Municipalities that propose to implement their official sewage facilities plan updates with PENNVEST funds must meet 6 additional requirements to be eligible for such funds. See *A Guide for Preparing Act 537 Update Revisions* (362-0300-003), Appendix N for greater detail or contact the DEP regional office serving your county listed in Appendix J of the same publication.

DEP Use Only	Indicate Page #(s) in Plan	Item Required
_____	_____	1. Environmental Impact Assessment. (Planning Phase) The UER replaces the Environmental Impact Assessment that was a previous requirement for PENNVEST projects.
_____	_____	2. Cost Effectiveness (Planning Phase) The cost-effectiveness analysis should be a present-worth (or equivalent uniform annual) cost evaluation of the principle alternatives using the interest rate that is published annually by the Water Resources Council. Normally, for PENNVEST projects the applicant should select the most cost-effective alternative based upon the above analysis. Once the alternative has been selected the user fee estimates should be developed based upon interest rates and loan terms of the selected funding method.
_____	_____	3. Second Opinion Project Review. (Design Phase)
_____	_____	4. Minority Business Enterprise/Women's Business Enterprise (Construction Phase)
_____	_____	5. Civil Rights. (Construction Phase)
_____	_____	6. Initiation of Operation/Performance Certification. (Post-construction Phase)



APPENDIX

H

Reference to Halfmoon
Township Sewage Planning



Appendix H – Reference to Halfmoon Township Sewage Planning

Planning level discussions by Halfmoon Township and the CRPA at the time this study was initiated suggested the potential for an extension of the Sewer Service Area (SSA) to portions of Halfmoon Township, which could result in additional pump stations beyond what is currently planned. While this study was being developed, Halfmoon Township decided it is no longer interested in including capacity for a potential future expansion of the SSA into Halfmoon Township.

A draft of this Special Study was provided to the Centre Region Council of Governments (CRCOG) Public Services and Environmental/ Transportation and Land Use Joint Committee (PSE-TLU) on December 3, 2021, which included alternatives with design flow projections for the potential future expansion into Halfmoon Township. The PSE-TLU recommended that the Special Study be revised such that the preliminary sizing of wastewater facilities does not include any capacity for potential future extension into Halfmoon Township, based on the most recent formal action by the Township to not allow public sewer. During its meeting on December 3, 2021, the Centre Regional Planning Commission also recommended that the Special Study be revised.

Therefore, the alternatives and associated planning data that considered design flow projections to include the potential for future expansion into Halfmoon Township were removed from the study and are included in Appendix H for reference.

Evaluation of Potential Future Connections

The intent of this Special Study is to present an alternative wastewater conveyance method for the West Patton Township portion of the existing SSA. There is no proposition of extension of the SSA boundary to include portions of Halfmoon Township currently.

However, because the conveyance method presented in this Special Study may receive wastewater flows from Halfmoon Township in the future, if land development in the area is proposed and approved, an estimation of the potential number of EDUs is included.

In June 2018, Halfmoon Township and the CRPA published a Small Area Plan for the area of land adjacent to the SSA boundary, which included a conceptual land use plan. The approximate areas identified as high, moderate, and low intensity development were utilized to estimate potential future wastewater flows from Halfmoon Township. The Conceptual Land Use map (page 15) from the Small Area Plan is included with this Appendix for reference. From the Small Area Plan:

“The High Intensity area should allow housing, including multi-family, as well as retail, restaurants, offices, and civic uses. Other uses may include housing for the elderly, personal services shops, childcare facilities, recreation, and municipal uses. The Moderate Intensity area should allow housing, including single family, two family, and townhome type development. The Low Intensity area should consist of single-family housing. The Buffer adjacent to State Route 550 is provided to signify the rural character of Halfmoon Township as people enter the community. This area should be open land but may include community gathering areas. The Buffers between the Study Area and the State Game Lands, for the most part should remain open land, and forested where forest currently exists.”

Based on these descriptions, the following development densities were assumed:

- > High Intensity Land Use Area: 4 EDUs per 1 acre,
- > Moderate Intensity Land Use Area: 2 EDUs per 1 acre,
- > Low Intensity Land Use Area: 1 EDU per 2 ½ acres,
- > and Buffer/Shielding Area: 0 EDUs.

The area identified in the Small Area Plan as High Intensity Land Use was estimated to include approximately 42 acres; Moderate Intensity Land Use estimated to include approximately 140 acres; and Low Intensity Land Use estimated to include approximately 488 acres.

Future development in the portion of Halfmoon Township adjacent to the project area is projected to contribute wastewater from approximately 645 EDUs to the UAJA's collection and conveyance system (if extension is proposed and approved), as summarized in the following table.

Table H.1: Future Wastewater Flows in Halfmoon Township adjacent to the existing SSA

Conceptual Land Use Area	Future No. of EDUs	Planning ADF (gpd) ¹
High Intensity	167	29,145
Moderate Intensity	283	49,565
Low Intensity	195	34,140
Total	645	112,850

¹Gallons Per Day; Calculated by multiplying the number of EDUs by 175 gpd/EDU.

Conveyance Alternatives

Multiple pump station locations and sewer alignments were considered, including the Cedar Cliff Alternative, the Meeks Lane Alternative, and the Blueberry Crossing Alternative which are described in the following sections. Another alignment was preliminarily considered which crossed the Haugh Family Preserve in Patton Township but was abandoned due to the exceptionally preservative nature of this Open Space and Recreation Area.

Current and future estimated wastewater flows in the project area are summarized in the following table. A peaking factor of 2.0 was used to calculate the maximum monthly average flow (MMAF). The peak instantaneous flow (PIF) was derived assuming a peaking factor of 3.5 (PIF to ADF).

Table H.2: Current and Projected Wastewater Flows within the West Patton Township Portion of the Existing SSA and with Potential Extension of Sewer Service to Halfmoon Township

EDU Classification	No. of EDUs	ADF (gpd) ¹	MMAF (gpd) ²	PIF (gpm) ³
Existing Connections	365	63,875	127,750	155
Projected within SSA	1,280	224,000	448,000	544
Potential Extension	645	112,850	225,700	274
Total	2,290	400,725	801,450	974

¹Gallons Per Day; Calculated by multiplying the number of EDUs by 175 gpd/EDU.

²Gallons Per Day; Calculated by multiplying the ADF by a peaking factor of 2.0.

³Gallons Per Minute; Calculated by multiplying the ADF by a peaking factor of 3.5 and dividing by the unit conversion of 1,440 minutes per day.

Multiple pumping configurations will be considered when the pump station is designed, e.g., submersible pump station, wet well/dry pit pump station, or series pumping. At this time, it is assumed that the new pump station would be constructed generally consisting of duplex submersible pumps within a concrete wet well, control panels and an emergency generator.

CEDAR CLIFF (HT) ALTERNATIVE

A technical memorandum was completed in 2015 to evaluate a pump station site, designated as the Waddle Pump Station, and forcemain alignment and to provide the basic preliminary process design and physical sizing for the Cedar Cliff Alternative. The technical memorandum concluded that the Cedar Cliff Alternative is technically feasible. It must be noted however, that residents in the area are highly opposed to this alignment.

The technical memorandum outlined design considerations such as estimations of flow projections within the existing SSA in West Patton Township and for potential future extension into Halfmoon Township, which were updated for this Special Study based on more recent planning level data.

This alternative is similar to the Cedar Cliff Alternative described in Chapter 5; however, to plan wastewater conveyance capacity for all potential scenarios, the Cedar Cliff (HT) Alternative was based on flow projections within the existing SSA and for potential future extension.

Exhibit 5.A in Appendix A shows the preliminary layouts of the gravity interceptors that would convey the wastewater that is currently being conveyed by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations to the new Waddle Pump Station, as well as the forcemain alignment. The pump station would be located near the intersection of Michael Road and Stevenson Road (State Route 3028) in the Cedar Cliff neighborhood. The forcemain would generally follow the alignment of Michael Road and then extend to a discharge location along an existing unimproved roadway, where it would transition to a gravity system and flow into the Toftrees Interceptor. Based on preliminary engineering of the pump station, pump model Flygt NP 3315 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions.

MEEKS LANE (HT) ALTERNATIVE A

A Basis of Design Report was completed in 2016 to evaluate a pump station site, designated as the Meeks Lane Pump Station, and forcemain alignment and to provide the basic preliminary process design and physical sizing for the Meeks Lane Alternative.

The Basis of Design Report outlined design considerations such as estimations of flow projections within the existing SSA in West Patton Township and for potential future extension into Halfmoon Township, which were updated for this Special Study based on more recent planning level data.

This alternative is similar to the Meeks Lane Alternative A described in Chapter 5; however, to plan wastewater conveyance capacity for all potential scenarios, the Meeks Lane (HT) Alternative A was based on flow projections within the existing SSA and for potential future extension.

Exhibit 5.B in Appendix A shows the preliminary layouts of the gravity interceptors that would convey the wastewater that is currently being conveyed by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations and from the Grays Woods remaining buildout area to the new Meeks Lane Pump Station, as well as the forcemain alignment.

The pump station would be located along Meeks Lane near the Spring Hollow Farm. The forcemain alignment would generally follow Meeks Lane to Grays Woods Boulevard and then extend across the backlot along Scotia Road and cross Circleville Road. From there the alignment would follow an abandoned railroad grade towards Ghaner Drive. Based on preliminary engineering of the pump station, pump model Flygt NP 3315 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions. For the Meeks Lane (HT) Alternative A, the forcemain would discharge into new gravity sanitary sewer lines near Valley Vista Drive that would be constructed to convey the wastewater flows to the Valley Vista Interceptor.

The existing 8-inch sanitary sewer lines along Valley Vista Drive would become under-sized for handling the additional wastewater flows designed for the Meeks Lane Pump Station. Although the sanitary sewer segment crossing North Atherton Street is currently 12-inch diameter, it was assumed for this Special Study that a new highway crossing would be constructed. Therefore, to accommodate the Meeks Lane (HT) Alternative A, the section of gravity sewer from MH 'SZM-3/1' TO MH 'VVU' (approximately 1,200 l.f.) would need to be replaced to increase flow capacity.

MEEKS LANE (HT) ALTERNATIVE B

Due to the heavy traffic and limited space for construction along Valley Vista Road, where the Meeks Lane (HT) Alternative A would require significant sanitary sewer replacement, an alternative alignment for forcemain discharge and conveyance to the Valley Vista Interceptor was more recently developed.

The Meeks Lane (HT) Alternative B is generally consistent with the previously described alternative, though the forcemain would extend along the existing walking path located between Ghaner Drive and Whisper Ridge Drive. The forcemain would then discharge into new gravity sanitary sewer lines constructed north of the Lowe's to convey the wastewater flows to the Valley Vista Interceptor.

This alternative is similar to the Meeks Lane Alternative B described in Chapter 5; however, to plan wastewater conveyance capacity for all potential scenarios, the Meeks Lane (HT) Alternative B was based on flow projections within the existing SSA and for potential future extension.

Exhibit 5.C in Appendix A shows the preliminary layouts of the gravity interceptors that would convey the wastewater that is currently being conveyed by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations and from the Grays Woods remaining buildout area to the new Meeks Lane Pump Station, as well as the forcemain alignment. Based on preliminary engineering of the pump station, pump model Flygt NP 3315 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions.

The amount of existing sewer infrastructure that would need to be replaced would be significantly reduced with this alternative forcemain discharge alignment. It was again assumed that a new highway crossing would be constructed under North Atherton Street. Therefore, to accommodate the Meeks Lane (HT) Alternative B, the section of gravity sewer from MH 'M-119' to MH 'VVU' (approximately 500 l.f.) would need to be replaced to increase flow capacity.

MEEKS LANE (HT) ALTERNATIVE C

The Meeks Lane (HT) Alternative C is generally consistent with the previously described Meeks Lane (HT) alternatives, though the forcemain would extend along the backlot to Whisper Ridge Drive and around the small park. The forcemain would then discharge into new gravity sanitary sewer lines constructed north of the Lowe's to convey the wastewater flows to the Valley Vista Interceptor.

This alternative is similar to the Meeks Lane Alternative C described in Chapter 5; however, to plan wastewater conveyance capacity for all potential scenarios, the Meeks Lane (HT) Alternative C was based on flow projections within the existing SSA and for potential future extension.

Exhibit 5.D in Appendix A shows the preliminary layouts of the gravity interceptors that would convey the wastewater that is currently being conveyed by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations and from the Grays Woods remaining buildout area to the new Meeks Lane Pump Station, as well as the forcemain alignment. Based on preliminary engineering of the pump station, pump model Flygt NP 3315 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions.

It was again assumed that a new highway crossing would be constructed under North Atherton Street. Therefore, to accommodate the Meeks Lane (HT) Alternative C, the section of gravity sewer from MH 'M-119' to MH 'VVU' (approximately 500 l.f.) would need to be replaced to increase flow capacity.

Exhibit 5.E in Appendix A shows a preliminary pump station layout. The pumping configuration and precise location of the station may change during detailed engineering design based on equipment manufacturers' recommendations, owner preferences, and relevant permitting requirements.

BLUEBERRY CROSSING (HT) ALTERNATIVE

Following the previous draft submission of this Special Study to the CROG PSE-TLU Committee and preliminary right-of-way discussions with the property owner of the land proposed for the Meeks Lane pump station location, the UAJA began developing an additional alternative pump station location. The proposed station would be located along Meeks Lane, near the Blueberry Crossing subdivision (south of the intersection between Meeks Lane and Briar Court).

Similar to the Meeks Lane (HT) Alternative C alignment, the forcemain alignment would generally follow Meeks Lane to Grays Woods Boulevard and then extend across the backlot along Scotia Road and cross Circleville Road. From there the alignment would follow an abandoned railroad grade towards Ghaner Drive, then extend along the backlot to Whisper Ridge Drive and around the small park. The forcemain would then discharge into new gravity sanitary sewer lines constructed north of the Lowe's to convey the wastewater flows to the Valley Vista Interceptor.

This alternative is similar to the Blueberry Crossing Alternative described in Chapter 5; however, to plan wastewater conveyance capacity for all potential scenarios, the Blueberry Crossing (HT) Alternative was based on flow projections within the existing SSA and for potential future extension.

Exhibit 5.F in Appendix A shows the preliminary layouts of the gravity interceptors that would convey the wastewater that is currently being conveyed by the Marywood, Graysdale 2A, and Graysdale 2B Pump Stations and from the Grays Woods remaining buildout area to the new pump station, as well as the forcemain alignment. Based on preliminary engineering of the pump station, pump model Flygt NP 3315 was selected, and a forcemain diameter of 12 inches will be required to maintain reasonable velocities under peak flow conditions.

It was again assumed that a new highway crossing would be constructed under North Atherton Street. Therefore, to accommodate the Blueberry Crossing (HT) Alternative, the section of gravity sewer from MH 'M-119' to MH 'VVU' (approximately 500 l.f.) would need to be replaced to increase flow capacity.

Exhibit 5.G in Appendix A shows a preliminary pump station layout. The pumping configuration and precise location of the pump station may change during detailed engineering design based on equipment manufacturers' recommendations, owner preferences, and relevant permitting requirements.

Economic Analysis

To evaluate the economic impacts related to each of the alignment alternatives, conceptual-level cost estimates were prepared. These costs include estimated capital construction costs, project costs, and annual operation and maintenance (O&M) costs. Detailed estimates for the alternatives that considered design flow projections to include the potential for future expansion into Halfmoon Township are included with this Appendix for reference.

The estimated capital costs include quotes obtained from manufacturers as well as costs associated with labor and installation. The total project costs include the estimated construction costs as well as soft costs and a 15% contingency.

Soft costs, including engineering (design, permitting, and construction administration) and legal fees, were estimated based on a percentage (12%) of the estimated construction capital costs reflective of projected design complexity.

O&M cost estimates for the pump station include the cost of electricity consumed by the pump station as well as operating costs. O&M costs were developed using the following (where applicable):

- > Electricity: The UAJA's General Power Service cost averaged 6.10 cents per kWh from December 2018 to October 2019 at the existing Scott Road Pump Station. However, to capture the overall cost of electrical service including capacity, transmission and miscellaneous charges, an electrical cost of 9 cents per kWh was used.
 - This value was derived by calculating the average total monthly bill amount divided by the average monthly kWh used.
- > 130 horsepower consumption by the proposed submersible pumps/controls, running an average of 30 minutes per hour
 - for alternatives preliminarily sized for flow projections within the existing SSA and for potential future extension (Flygt NP 3315).
- > The pump station would require one system operator, approximately one hour per day performing general operation and maintenance.

No detailed field survey or investigations were conducted as part of this Special Study to confirm the accuracy of record drawings, to confirm the location of below grade utilities, or to confirm the site subsurface conditions. Additional analysis and evaluation of the proposed infrastructure will be required during design of the system to fully develop the scope and extent of the facilities required to complete the work and identify site conditions that may impact the cost and schedule of the project. Table H.3 presents a summary of the cost estimates developed.

Table H.3: Summary of Alternative Costs with Pump Station Capacity for Halfmoon Township

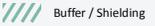
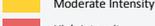
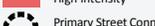
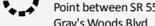
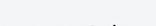
Alternative	Capital Cost	Annual O&M Cost	Annual O&M Present Worth	Total Present Worth
Cedar Cliff (HT) Alternative	\$ 7,410,000	\$ 56,464	\$ 880,229	\$ 8,290,000
Meeks Lane (HT) Alternative A	\$ 5,960,000			\$ 6,840,000
Meeks Lane (HT) Alternative B	\$ 5,811,000			\$ 6,691,000
Meeks Lane (HT) Alternative C	\$ 5,795,000			\$ 6,675,000
Blueberry Crossing (HT) Alternative	\$ 5,965,000			\$ 6,845,000



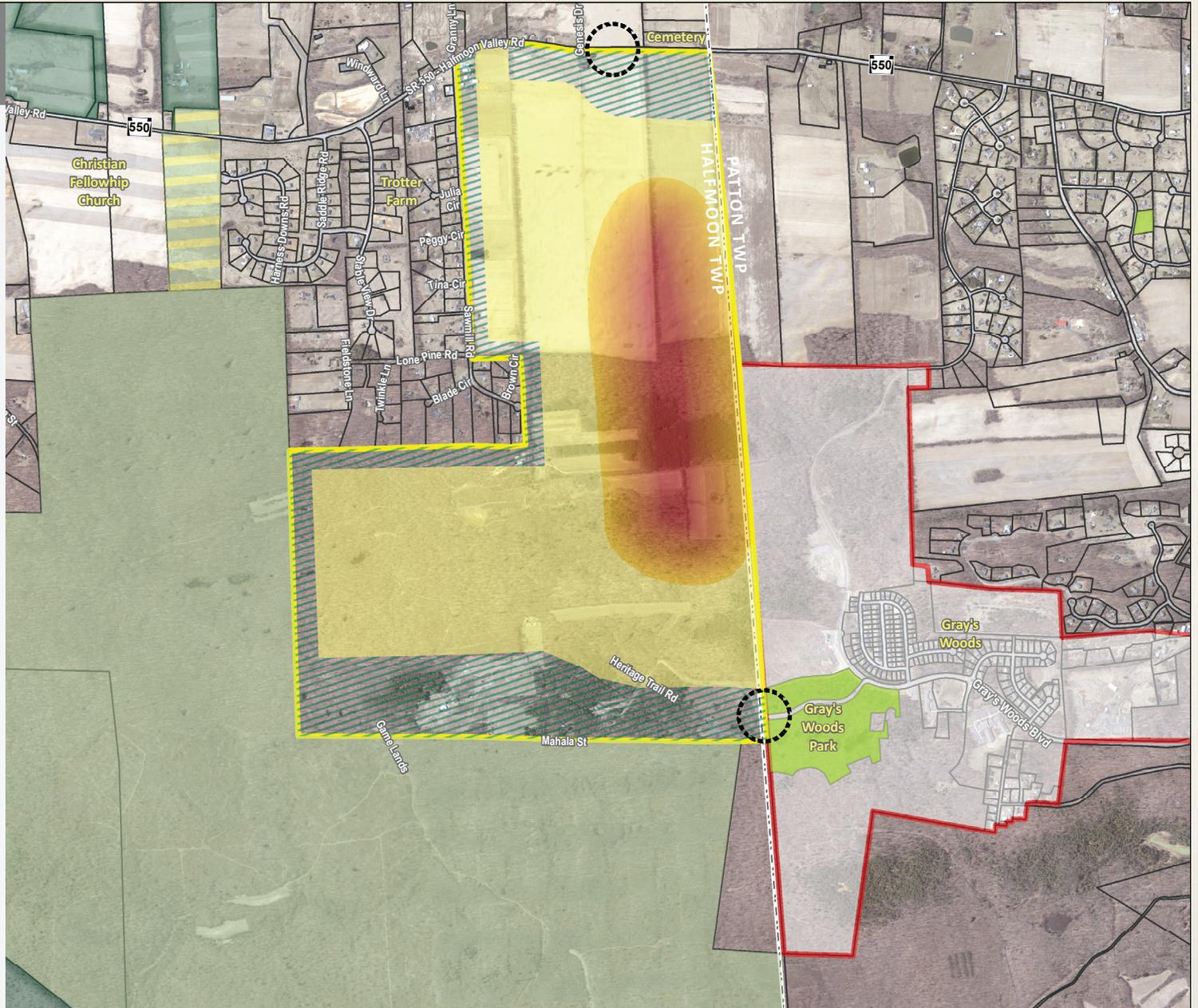
Halfmoon Township Small Area Plan Conceptual Land Use

LEGEND

Conceptual Land Use Areas

-  Buffer / Shielding
-  Low Intensity
-  Moderate Intensity
-  High Intensity
-  Primary Street Connection Point between SR 550 and Gray's Woods Blvd
-  Small Area Plan Boundary
-  Regional Growth Boundary
-  Parkland
-  Open Space Preservation Lease
-  Wildlife Corridor
-  State Game Lands
-  Parcel Boundaries
-  Municipal Boundary

This map is intended to serve as a conceptual map, and the boundaries of the various densities are approximate.





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ENGINEER'S OPINION OF PROBABLE CONSTRUCTION AND PROJECT COSTS
 2021 CENTRE REGION ACT 537 SEWAGE FACILITIES PLAN UPDATE:
 SPECIAL STUDY FOR THE MEEKS LANE PUMP STATION

CEDAR CLIFF (HT) ALTERNATIVE: PUMP STATION WITH ASSOCIATED GRAVITY INTERCEPTORS AND FORCEMAIN

DECEMBER 2021

CAPITAL COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
GENERAL CONDITIONS					
1	MOBILIZATION & PROJECT MANAGEMENT (4%)	1	L.S.	\$ 212,070	\$ 212,070
2	TRAFFIC MAINTENANCE & PROTECTION (2.5%)	1	L.S.	\$ 132,544	\$ 132,544
3	EROSION & SEDIMENTATION CONTROL (1%)	1	L.S.	\$ 53,018	\$ 53,018
4	CLEARING/GRUBBING (1%)	1	L.S.	\$ 53,018	\$ 53,018
SANITARY SEWER (GRAVITY INTERCEPTORS UPSTREAM OF PUMP STATION)					
5	8" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	14560	L.F.	\$ 88	\$ 1,281,280
6	8" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	7840	L.F.	\$ 103	\$ 807,520
7	4-FOOT SEWER MANHOLE	68	EA.	\$ 5,530	\$ 376,040
8	CONNECTION TO EXISTING MANHOLE	3	EA.	\$ 1,850	\$ 5,550
9	NORTH ATHERTON CROSSING (BORE AND JACK)	1	EA.	\$ 380,500	\$ 380,500
BUILDING					
5	PRE-CAST BUILDING (14' X 20')	1	L.S.	\$ 85,000	\$ 85,000
6	FOUNDATION	1	L.S.	\$ 15,000	\$ 15,000
7	HVAC	1	L.S.	\$ 10,000	\$ 10,000
8	EMERGENCY GENERATOR	1	L.S.	\$ 60,750	\$ 60,750
9	3-PHASE POWER UPGRADE	1	L.S.	\$ 48,000	\$ 48,000
PUMP STATION					
10	SUBMERSIBLE PUMP PACKAGE W/ CONTROLS	1	L.S.	\$ 615,000	\$ 615,000
11	12' DIAMETER X 25' TALL WET WELL W/ HDPE LINER	1	L.S.	\$ 80,300	\$ 80,300
12	6' X 8' X 6.5' VALVE VAULT	1	L.S.	\$ 10,800	\$ 10,800
13	VALVES AND SITE PIPING	1	L.S.	\$ 39,900	\$ 39,900
14	ELECTRICAL INSTALLATION (GENERAL WIRING/LIGHTING/PANELS)	1	L.S.	\$ 45,500	\$ 45,500
FORCEMAIN					
15	12" FORCEMAIN INSTALLATION	5025	L.F.	\$ 58	\$ 288,938
16	AIR RELEASE/VACUUM VALVE STATION	2	EA.	\$ 6,400	\$ 12,800
SANITARY SEWER (GRAVITY INTERCEPTOR DOWNSTREAM OF FORCEMAIN)					
17	15" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	3851	L.F.	\$ 96	\$ 367,794
18	15" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	2074	L.F.	\$ 111	\$ 229,149
19	4-FOOT SEWER MANHOLE	18	EA.	\$ 5,530	\$ 99,540
20	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,850	\$ 1,850
SURFACING AND RESTORATION					
21	VEGETATIVE RESTORATION	28050	L.F.	\$ 5	\$ 140,250
22	IMPROVED SURFACE	500	L.F.	\$ 15	\$ 7,500
23	MUNICIPAL STREET	4800	L.F.	\$ 30	\$ 144,000
MISCELLANEOUS					
24	UNCLASSIFIED EXCAVATION, UNMARKED/MISMARKED UTILITIES	1	L.S.	\$ 148,800	\$ 148,800
SUBTOTAL FOR CONSTRUCTION					\$ 5,752,411
SOFT COSTS					
25	ENGINEERING, LEGAL, ADMINISTRATIVE	1	L.S.	\$ 690,300	\$ 690,300
PROJECT SUBTOTAL					\$ 6,442,711
CONTINGENCY (15%)					\$ 966,407
TOTAL PROJECT COST					\$ 7,410,000

ANNUAL O&M COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
1	ELECTRICITY (PROPOSED PUMP STATION)	1	L.S.	\$ 38,214	\$ 38,214
2	LABOR - SYSTEM OPERATOR	365	HOUR	\$ 50	\$ 18,250
ESTIMATED YEARLY O&M COST					\$ 56,464

ANNUAL O&M	
PRESENT WORTH	TOTAL PRESENT WORTH
\$ 880,229	\$ 8,290,000



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ENGINEER'S OPINION OF PROBABLE CONSTRUCTION AND PROJECT COSTS
 2021 CENTRE REGION ACT 537 SEWAGE FACILITIES PLAN UPDATE:
 SPECIAL STUDY FOR THE MEEKS LANE PUMP STATION

MEEKS LANE (HT) ALTERNATIVE A: PUMP STATION WITH ASSOCIATED GRAVITY INTERCEPTORS AND FORCEMAIN

DECEMBER 2021

CAPITAL COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
GENERAL CONDITIONS					
1	MOBILIZATION & PROJECT MANAGEMENT (4%)	1	L.S.	\$ 170,584	\$ 170,584
2	TRAFFIC MAINTENANCE & PROTECTION (2.5%)	1	L.S.	\$ 106,615	\$ 106,615
3	EROSION & SEDIMENTATION CONTROL (1%)	1	L.S.	\$ 42,646	\$ 42,646
4	CLEARING/GRUBBING (1%)	1	L.S.	\$ 42,646	\$ 42,646
SANITARY SEWER (GRAVITY INTERCEPTORS UPSTREAM OF PUMP STATION)					
5	8" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	9425	L.F.	\$ 88	\$ 829,400
6	8" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	5075	L.F.	\$ 103	\$ 522,725
7	4-FOOT SEWER MANHOLE	44	EA.	\$ 5,530	\$ 243,320
8	CONNECTION TO EXISTING MANHOLE	3	EA.	\$ 1,850	\$ 5,550
BUILDING					
5	PRE-CAST BUILDING (14' X 20')	1	L.S.	\$ 85,000	\$ 85,000
6	FOUNDATION	1	L.S.	\$ 15,000	\$ 15,000
7	HVAC	1	L.S.	\$ 10,000	\$ 10,000
8	EMERGENCY GENERATOR	1	L.S.	\$ 60,750	\$ 60,750
9	3-PHASE POWER UPGRADE	1	L.S.	\$ 48,000	\$ 48,000
PUMP STATION					
10	SUBMERSIBLE PUMP PACKAGE W/ CONTROLS	1	L.S.	\$ 615,000	\$ 615,000
11	12" DIAMETER X 25' TALL WET WELL W/ HDPE LINER	1	L.S.	\$ 80,300	\$ 80,300
12	6' X 8' X 6.5' VALVE VAULT	1	L.S.	\$ 10,800	\$ 10,800
13	VALVES AND SITE PIPING	1	L.S.	\$ 39,900	\$ 39,900
14	ELECTRICAL INSTALLATION (GENERAL WIRING/LIGHTING/PANELS)	1	L.S.	\$ 45,500	\$ 45,500
FORCEMAIN					
15	12" FORCEMAIN INSTALLATION	8900	L.F.	\$ 58	\$ 511,750
16	AIR RELEASE/VACUUM VALVE STATION	4	EA.	\$ 6,400	\$ 25,600
SANITARY SEWER (GRAVITY INTERCEPTOR DOWNSTREAM OF FORCEMAIN)					
17	15" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	2074	L.F.	\$ 96	\$ 198,019
18	15" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	1117	L.F.	\$ 111	\$ 123,373
19	4-FOOT SEWER MANHOLE	10	EA.	\$ 5,530	\$ 55,300
20	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,850	\$ 1,850
21	NORTH ATHERTON CROSSING (BORE AND JACK)	1	EA.	\$ 380,500	\$ 380,500
SURFACING AND RESTORATION					
22	VEGETATIVE RESTORATION	15030	L.F.	\$ 5	\$ 75,150
23	IMPROVED SURFACE	500	L.F.	\$ 15	\$ 7,500
24	MUNICIPAL STREET	5500	L.F.	\$ 30	\$ 165,000
MISCELLANEOUS					
25	UNCLASSIFIED EXCAVATION, UNMARKED/MISMARKE D UTILITIES	1	L.S.	\$ 109,300	\$ 109,300
SUBTOTAL FOR CONSTRUCTION					\$ 4,627,077
SOFT COSTS					
26	ENGINEERING, LEGAL, ADMINISTRATIVE	1	L.S.	\$ 555,300	\$ 555,300
PROJECT SUBTOTAL					\$ 5,182,377
CONTINGENCY (15%)					\$ 777,357
TOTAL PROJECT COST					\$ 5,960,000

ANNUAL O&M COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
1	ELECTRICITY (PROPOSED PUMP STATION)	1	L.S.	\$ 38,214	\$ 38,214
2	LABOR - SYSTEM OPERATOR	365	HOUR	\$ 50	\$ 18,250
ESTIMATED YEARLY O&M COST					\$ 56,464

ANNUAL O&M	
PRESENT WORTH	TOTAL PRESENT WORTH
\$ 880,229	\$ 6,840,000



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ENGINEER'S OPINION OF PROBABLE CONSTRUCTION AND PROJECT COSTS
 2021 CENTRE REGION ACT 537 SEWAGE FACILITIES PLAN UPDATE:
 SPECIAL STUDY FOR THE MEEKS LANE PUMP STATION

MEEKS LANE (HT) ALTERNATIVE B: PUMP STATION WITH ASSOCIATED GRAVITY INTERCEPTORS AND FORCEMAIN

DECEMBER 2021

CAPITAL COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
GENERAL CONDITIONS					
1	MOBILIZATION & PROJECT MANAGEMENT (4%)	1	L.S.	\$ 166,319	\$ 166,319
2	TRAFFIC MAINTENANCE & PROTECTION (2.5%)	1	L.S.	\$ 103,949	\$ 103,949
3	EROSION & SEDIMENTATION CONTROL (1%)	1	L.S.	\$ 41,580	\$ 41,580
4	CLEARING/GRUBBING (1%)	1	L.S.	\$ 41,580	\$ 41,580
SANITARY SEWER (GRAVITY INTERCEPTORS UPSTREAM OF PUMP STATION)					
5	8" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	9425	L.F.	\$ 88	\$ 829,400
6	8" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	5075	L.F.	\$ 103	\$ 522,725
7	4-FOOT SEWER MANHOLE	44	EA.	\$ 5,530	\$ 243,320
8	CONNECTION TO EXISTING MANHOLE	3	EA.	\$ 1,850	\$ 5,550
BUILDING					
5	PRE-CAST BUILDING (14' X 20')	1	L.S.	\$ 85,000	\$ 85,000
6	FOUNDATION	1	L.S.	\$ 15,000	\$ 15,000
7	HVAC	1	L.S.	\$ 10,000	\$ 10,000
8	EMERGENCY GENERATOR	1	L.S.	\$ 60,750	\$ 60,750
9	3-PHASE POWER UPGRADE	1	L.S.	\$ 48,000	\$ 48,000
PUMP STATION					
10	SUBMERSIBLE PUMP PACKAGE W/ CONTROLS	1	L.S.	\$ 615,000	\$ 615,000
11	12" DIAMETER X 25' TALL WET WELL W/ HDPE LINER	1	L.S.	\$ 80,300	\$ 80,300
12	6' X 8' X 6.5' VALVE VAULT	1	L.S.	\$ 10,800	\$ 10,800
13	VALVES AND SITE PIPING	1	L.S.	\$ 39,900	\$ 39,900
14	ELECTRICAL INSTALLATION (GENERAL WIRING/LIGHTING/PANELS)	1	L.S.	\$ 45,500	\$ 45,500
FORCEMAIN					
15	12" FORCEMAIN INSTALLATION	9780	L.F.	\$ 58	\$ 562,350
16	AIR RELEASE/VACUUM VALVE STATION	4	EA.	\$ 6,400	\$ 25,600
SANITARY SEWER (GRAVITY INTERCEPTOR DOWNSTREAM OF FORCEMAIN)					
17	15" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	1359	L.F.	\$ 96	\$ 129,737
18	15" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	732	L.F.	\$ 111	\$ 80,831
19	4-FOOT SEWER MANHOLE	7	EA.	\$ 5,530	\$ 38,710
20	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,850	\$ 1,850
21	NORTH ATHERTON CROSSING (BORE AND JACK)	1	EA.	\$ 380,500	\$ 380,500
SURFACING AND RESTORATION					
22	VEGETATIVE RESTORATION	14530	L.F.	\$ 5	\$ 72,650
23	IMPROVED SURFACE	2680	L.F.	\$ 15	\$ 40,200
24	MUNICIPAL STREET	3600	L.F.	\$ 30	\$ 108,000
MISCELLANEOUS					
25	UNCLASSIFIED EXCAVATION, UNMARKED/MISMARKE D UTILITIES	1	L.S.	\$ 106,300	\$ 106,300
SUBTOTAL FOR CONSTRUCTION					\$ 4,511,400
SOFT COSTS					
26	ENGINEERING, LEGAL, ADMINISTRATIVE	1	L.S.	\$ 541,400	\$ 541,400
PROJECT SUBTOTAL					\$ 5,052,800
CONTINGENCY (15%)					\$ 757,920
TOTAL PROJECT COST					\$ 5,811,000

ANNUAL O&M COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
1	ELECTRICITY (PROPOSED PUMP STATION)	1	L.S.	\$ 38,214	\$ 38,214
2	LABOR - SYSTEM OPERATOR	365	HOUR	\$ 50	\$ 18,250
ESTIMATED YEARLY O&M COST					\$ 56,464

ANNUAL O&M	
PRESENT WORTH	TOTAL PRESENT WORTH
\$ 880,229	\$ 6,691,000



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ENGINEER'S OPINION OF PROBABLE CONSTRUCTION AND PROJECT COSTS
 2021 CENTRE REGION ACT 537 SEWAGE FACILITIES PLAN UPDATE:
 SPECIAL STUDY FOR THE MEEKS LANE PUMP STATION

MEEKS LANE (HT) ALTERNATIVE C: PUMP STATION WITH ASSOCIATED GRAVITY INTERCEPTORS AND FORCEMAIN

JANUARY 2022

CAPITAL COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
GENERAL CONDITIONS					
1	MOBILIZATION & PROJECT MANAGEMENT (4%)	1	L.S.	\$ 165,851	\$ 165,851
2	TRAFFIC MAINTENANCE & PROTECTION (2.5%)	1	L.S.	\$ 103,657	\$ 103,657
3	EROSION & SEDIMENTATION CONTROL (1%)	1	L.S.	\$ 41,463	\$ 41,463
4	CLEARING/GRUBBING (1%)	1	L.S.	\$ 41,463	\$ 41,463
SANITARY SEWER (GRAVITY INTERCEPTORS UPSTREAM OF PUMP STATION)					
5	8" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	9425	L.F.	\$ 88	\$ 829,400
6	8" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	5075	L.F.	\$ 103	\$ 522,725
7	4-FOOT SEWER MANHOLE	44	EA.	\$ 5,530	\$ 243,320
8	CONNECTION TO EXISTING MANHOLE	3	EA.	\$ 1,850	\$ 5,550
BUILDING					
5	PRE-CAST BUILDING (14' X 20')	1	L.S.	\$ 85,000	\$ 85,000
6	FOUNDATION	1	L.S.	\$ 15,000	\$ 15,000
7	HVAC	1	L.S.	\$ 10,000	\$ 10,000
8	EMERGENCY GENERATOR	1	L.S.	\$ 60,750	\$ 60,750
9	3-PHASE POWER UPGRADE	1	L.S.	\$ 48,000	\$ 48,000
PUMP STATION					
10	SUBMERSIBLE PUMP PACKAGE W/ CONTROLS	1	L.S.	\$ 615,000	\$ 615,000
11	12" DIAMETER X 25' TALL WET WELL W/ HDPE LINER	1	L.S.	\$ 80,300	\$ 80,300
12	6' X 8' X 6.5' VALVE VAULT	1	L.S.	\$ 10,800	\$ 10,800
13	VALVES AND SITE PIPING	1	L.S.	\$ 39,900	\$ 39,900
14	ELECTRICAL INSTALLATION (GENERAL WIRING/LIGHTING/PANELS)	1	L.S.	\$ 45,500	\$ 45,500
FORCEMAIN					
15	12" FORCEMAIN INSTALLATION ¹	10350	L.F.	\$ 54	\$ 558,900
16	AIR RELEASE/VACUUM VALVE STATION	4	EA.	\$ 6,400	\$ 25,600
SANITARY SEWER (GRAVITY INTERCEPTOR DOWNSTREAM OF FORCEMAIN)					
17	15" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	1359	L.F.	\$ 96	\$ 129,737
18	15" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	732	L.F.	\$ 111	\$ 80,831
19	4-FOOT SEWER MANHOLE	7	EA.	\$ 5,530	\$ 38,710
20	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,850	\$ 1,850
21	NORTH ATHERTON CROSSING (BORE AND JACK)	1	EA.	\$ 380,500	\$ 380,500
SURFACING AND RESTORATION					
22	VEGETATIVE RESTORATION	19460	L.F.	\$ 5	\$ 97,300
23	IMPROVED SURFACE	500	L.F.	\$ 15	\$ 7,500
24	MUNICIPAL STREET	3600	L.F.	\$ 30	\$ 108,000
MISCELLANEOUS					
25	UNCLASSIFIED EXCAVATION, UNMARKED/MISMARKE D UTILITIES	1	L.S.	\$ 106,100	\$ 106,100
SUBTOTAL FOR CONSTRUCTION					\$ 4,498,706
SOFT COSTS					
26	ENGINEERING, LEGAL, ADMINISTRATIVE	1	L.S.	\$ 539,900	\$ 539,900
PROJECT SUBTOTAL					\$ 5,038,606
CONTINGENCY (15%)					\$ 755,791
TOTAL PROJECT COST					\$ 5,795,000

¹Cost per linear foot reduced from previous alternative to depict cost savings as a result of ease of construction compared to walking path alignment.

ANNUAL O&M COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
1	ELECTRICITY (PROPOSED PUMP STATION)	1	L.S.	\$ 38,214	\$ 38,214
2	LABOR - SYSTEM OPERATOR	365	HOUR	\$ 50	\$ 18,250
ESTIMATED YEARLY O&M COST					\$ 56,464

ANNUAL O&M	TOTAL PRESENT WORTH
PRESENT WORTH	\$ 6,675,000
\$ 880,229	\$



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 SPECIAL STUDY FOR THE MEEKS LANE PUMP STATION

BLUEBERRY CROSSING (HT) ALTERNATIVE: PUMP STATION WITH ASSOCIATED GRAVITY INTERCEPTORS AND FORCEMAIN

MARCH 2022

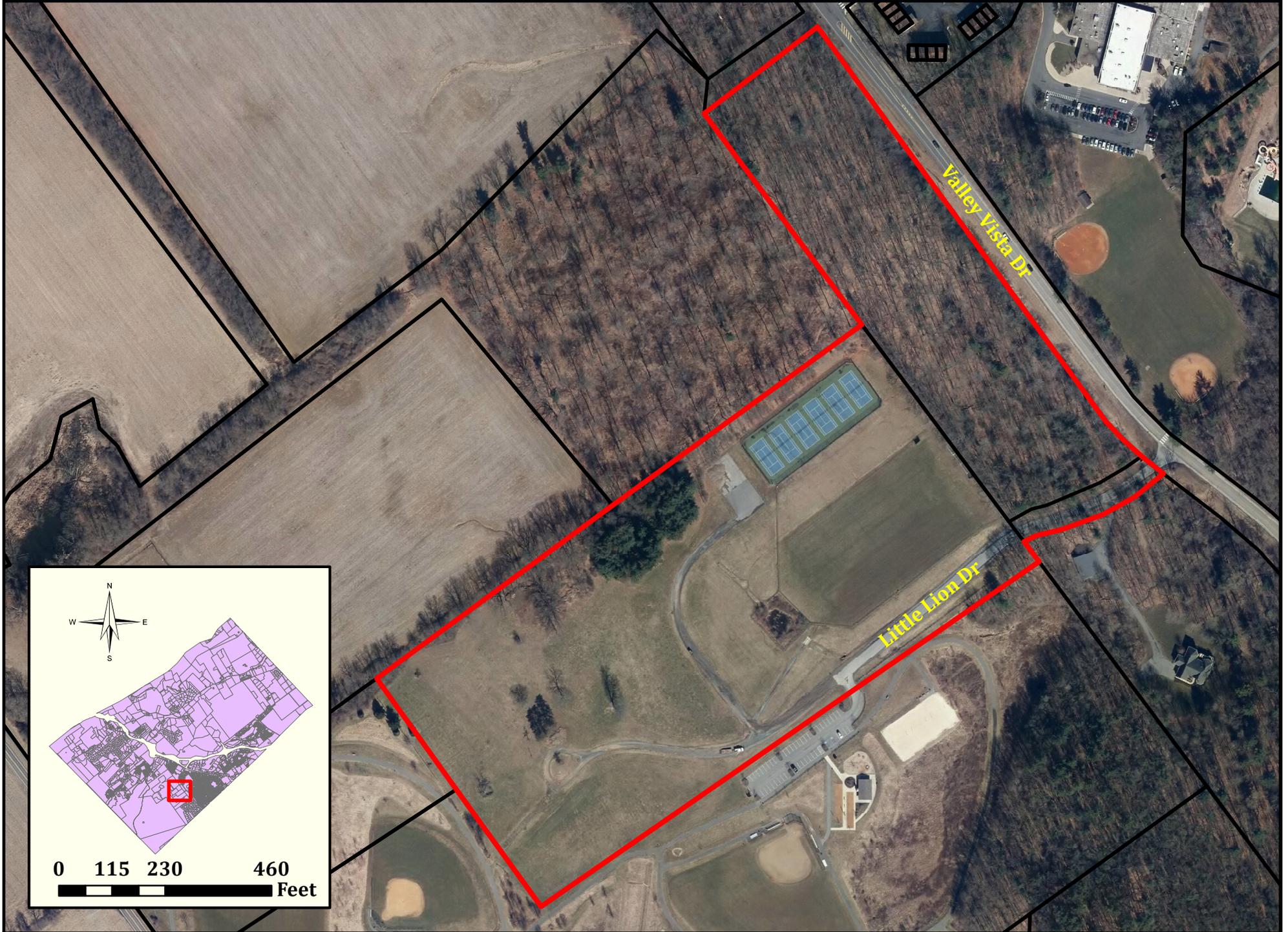
CAPITAL COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
GENERAL CONDITIONS					
1	MOBILIZATION & PROJECT MANAGEMENT (4%)	1	L.S.	\$ 170,722	\$ 170,722
2	TRAFFIC MAINTENANCE & PROTECTION (2.5%)	1	L.S.	\$ 106,701	\$ 106,701
3	EROSION & SEDIMENTATION CONTROL (1%)	1	L.S.	\$ 42,680	\$ 42,680
4	CLEARING/GRUBBING (1%)	1	L.S.	\$ 42,680	\$ 42,680
SANITARY SEWER (GRAVITY INTERCEPTORS UPSTREAM OF PUMP STATION)					
5	8" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	9597	L.F.	\$ 88	\$ 844,558
6	8" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	5168	L.F.	\$ 103	\$ 532,278
7	4-FOOT SEWER MANHOLE	45	EA.	\$ 5,530	\$ 248,850
8	CONNECTION TO EXISTING MANHOLE	3	EA.	\$ 1,850	\$ 5,550
BUILDING					
5	PRE-CAST BUILDING (14' X 20')	1	L.S.	\$ 85,000	\$ 85,000
6	FOUNDATION	1	L.S.	\$ 15,000	\$ 15,000
7	HVAC	1	L.S.	\$ 10,000	\$ 10,000
8	EMERGENCY GENERATOR	1	L.S.	\$ 60,750	\$ 60,750
9	3-PHASE POWER UPGRADE	1	L.S.	\$ 48,000	\$ 48,000
PUMP STATION					
10	SUBMERSIBLE PUMP PACKAGE W/ CONTROLS	1	L.S.	\$ 615,000	\$ 615,000
11	12" DIAMETER X 25' TALL WET WELL W/ HDPE LINER	1	L.S.	\$ 80,300	\$ 80,300
12	6' X 8' X 6.5' VALVE VAULT	1	L.S.	\$ 10,800	\$ 10,800
13	VALVES AND SITE PIPING	1	L.S.	\$ 39,900	\$ 39,900
14	ELECTRICAL INSTALLATION (GENERAL WIRING/LIGHTING/PANELS)	1	L.S.	\$ 45,500	\$ 45,500
FORCEMAIN					
15	12" FORCEMAIN INSTALLATION ¹	11365	L.F.	\$ 54	\$ 613,710
16	AIR RELEASE/VACUUM VALVE STATION	5	EA.	\$ 6,400	\$ 32,000
SANITARY SEWER (GRAVITY INTERCEPTOR DOWNSTREAM OF FORCEMAIN)					
17	15" GRAVITY SEWER INSTALLATION (0-10' DEPTH)	1359	L.F.	\$ 96	\$ 129,737
18	15" GRAVITY SEWER INSTALLATION (10-15' DEPTH)	732	L.F.	\$ 111	\$ 80,831
19	4-FOOT SEWER MANHOLE	7	EA.	\$ 5,530	\$ 38,710
20	CONNECTION TO EXISTING MANHOLE	1	EA.	\$ 1,850	\$ 1,850
21	NORTH ATHERTON CROSSING (BORE AND JACK)	1	EA.	\$ 380,500	\$ 380,500
SURFACING AND RESTORATION					
22	VEGETATIVE RESTORATION	18725	L.F.	\$ 5	\$ 93,625
23	IMPROVED SURFACE	500	L.F.	\$ 15	\$ 7,500
24	MUNICIPAL STREET	4600	L.F.	\$ 30	\$ 138,000
MISCELLANEOUS					
25	UNCLASSIFIED EXCAVATION, UNMARKED/MISMARKE D UTILITIES	1	L.S.	\$ 110,100	\$ 110,100
SUBTOTAL FOR CONSTRUCTION					\$ 4,630,833
SOFT COSTS					
26	ENGINEERING, LEGAL, ADMINISTRATIVE	1	L.S.	\$ 555,700	\$ 555,700
PROJECT SUBTOTAL					\$ 5,186,533
CONTINGENCY (15%)					\$ 777,980
TOTAL PROJECT COST					\$ 5,964,513

¹Cost per linear foot similar to Meeks Lane (HT) Alternative C.

ANNUAL O&M COST ESTIMATE					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
1	ELECTRICITY (PROPOSED PUMP STATION)	1	L.S.	\$ 38,214	\$ 38,214
2	LABOR - SYSTEM OPERATOR	365	HOUR	\$ 50	\$ 18,250
ESTIMATED YEARLY O&M COST					\$ 56,464

ANNUAL O&M	TOTAL PRESENT WORTH
PRESENT WORTH	\$ 6,845,000
\$ 880,229	\$

Lot Consolidation Plan - New Park Forest Middle School





Key
MT----Minor/Tech
D-----Discussion Item
✓-----Addressed
TBD----To Be Done

**PATTON TOWNSHIP
CENTRE COUNTY, PENNSYLVANIA**

100 PATTON PLAZA – STATE COLLEGE, PENNSYLVANIA – 16803

PHONE: 814/234-0271 — FAX: 814/238-7790

EMAIL: communications@pattonpa.us — WEB SITE: www.pattonpa.us

August 21, 2025

Mr. Todd Smith, P.E.
ELA Group, Inc.
2013 Sandy Drive
State College, PA 16801

VIA E-MAIL & REGULAR MAIL
tsmith@elagroup.com

**RE: Lot Consolidation Plan for State College Area School District
Park Forest Middle School
Plan Review Comments #1**

Dear Mr. Smith:

We have reviewed the subject plan and offer the following comments.

General Comments:

- ✓1. Patton Township reserves the right to make additional comments with every progressive plan re-submission resulting from comments as part of this phase of development.
- ✓2. All signatures and professional seals must be provided before the plan is approved by the Patton Township Board of Supervisors.
- ✓3. Provide portable document format (PDF) copies of the plan with the final signatures and recorder's stamp.
- ✓4. Please ensure that any additional comments provided by CATA, the COG Fire Director, UAJA, SCBWA, contracted Arborist, and the COG Regional Refuse and Recycling Administrator, have been addressed.
- ✓5. Per §350-19.C(4), please provide the name and address of registered engineer, surveyor or land planner responsible for the Plan.
- ✓6. Please add a purpose statement to the plan.
- ✓7. Provide geodetic reference points – minimum of four (4) property corners with X and Y coordinates provided in Decimal Degrees, accurate to the thousandth decimal, or Degrees, Minutes, Seconds, per §350-19C.(7)(a).
- ✓8. Please update the contact information for Patton Township to show Eric Confer and econfer@twp.patton.pa.us, under Act 287. Please correct the text overlap between the Comcast and the Penn State information.

- ✓ 9. If there are features not shown on the plan, please remove them from the legend. Linetypes in the legend should closely match the linetypes on the plan view. For example, the zoning district boundary linetype in the legend has a different width/scale than that shown on the plan view.
- ✓ 10. Please update the Planning Module Mailer to include this lot consolidation plan.
- ✓ 11. § 350-19C(6)—Please include a scale with the Key Map.
- ✓ 12. § 350-19C(8)—Please label all zoning districts surrounding the subject parcels.
- ✓ 13. § 350-19C(9)—Please add and label contour lines.
- ✓ 14. § 350-19C(10)—Location and elevation of the datum of contour elevations shall refer to United States Geological Survey datum.
- ✓ 15. § 350-19C(11)—Please include all existing sewer lines, water lines, fire hydrants, utility transmission lines, culverts, bridges, railroads, watercourses and other significant man-made or natural features within the proposed subdivision and within 50 feet from the boundaries of the proposed subdivision. Please label the existing stormwater basin.
- ✓ 16. § 350-19C(12)—Please include the approximate location of all existing tree masses within the proposed subdivision.
- ✓ 17. § 350-19C—A statement of the intended use of all non-residential lots and parcels shall be provided. Sanitary and/or storm sewers (and other drainage facilities) with the size and material of each indicated and any proposed connections with existing facilities should also be shown.
- ✓ 18. Please correct the spelling of “boundary” in the “property boundary to be removed” label. Unless the plan can be recorded in color, utilize different linetypes where the property boundary to be removed coincides with the zoning district boundary to try to improve legibility.
- ✓ 19. Please verify the current format required by the Centre County Recorder of Deeds for the recorder’s block.

Technical Comments:

- ✓ 20. There is a discrepancy between the area of parcel 18-003-061A in the Site Data Table and on the plan view, and this should be corrected (18.56 acres vs 18.504 ac).
- ✓ 21. If line/curve segments C2 and L2 are not shown on the plan, they should be removed from the tables. If they should be shown, please label the line/curve.
- TBD 22. The status of the “unrecorded agreement” between Patton Township and the State College Area School District dated September 24, 2008, should be discussed with Patton Township staff so that the Township may continue to have access to the existing paved parking area for the park. Any updates to the agreement, recording information, etc. should be added to the revised plan.

Please do not hesitate to contact us if you have any comments or questions.

Sincerely,

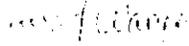
Nicole D. Harter

Nicole D. Harter
Zoning Officer

Michelle Merrow

Michelle Merrow, P.E.
Alder Run Engineering, LLC

Mr. Todd Smith, P.E.
ELA Group, Inc.
August 22, 2025
Page 3



Jenna Wargo, AICP
Principal Land Use Planner



Ryan Scanlan
Asst. Twp. Manager of PW Operations

ENCLOSURE:

Third-Party Comments

cc: A. Farkas, Township Manager
Patton Township Staff
Correspondence File
Project File

LOT CONSOLIDATION PLAN FOR STATE COLLEGE AREA SCHOOL DISTRICT

PATTON TOWNSHIP - CENTRE COUNTY - PENNSYLVANIA

CERTIFICATES/APPROVALS

CERTIFICATE OF ACCURACY (SURVEY)

A PROFESSIONAL LAND SURVEYOR IN THE COMMONWEALTH OF PENNSYLVANIA DO HEREBY CERTIFY THAT THIS PLAN CORRECTLY REPRESENTS THE TRACTS OF LANDS AS SHOWN.

_____, 20____

PATTON TOWNSHIP PLANNING COMMISSION

RECOMMENDED FOR APPROVAL BY THE PLANNING COMMISSION

CHAIRMAN _____ DATE _____

SECRETARY _____ DATE _____

PATTON TOWNSHIP SUPERVISORS

APPROVED BY THE BOARD OF SUPERVISORS

CHAIRMAN _____ DATE _____

SECRETARY _____ DATE _____

OWNER CERTIFICATION

COMMONWEALTH OF PENNSYLVANIA

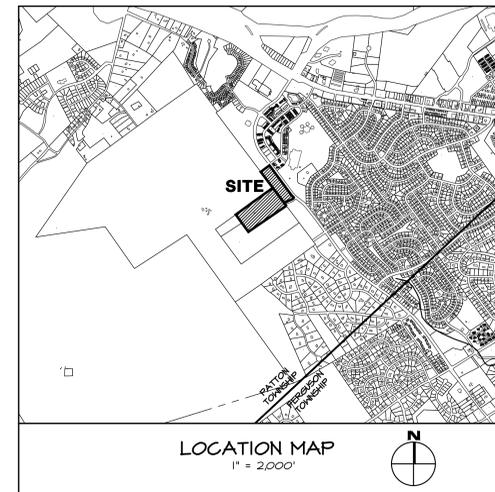
COUNTY OF CENTRE

ON THIS _____ DAY OF _____, 20____, THE UNDERSIGNED OWNER(S) PERSONALLY APPEARED BEFORE ME AND CERTIFIED THAT THEY ARE THE LEGAL OWNER OF THE PROPERTY SHOWN ON THIS PLAN AND ACKNOWLEDGE THE SAME TO BE THEIR ACT AND PLAN AND DESIGN THE SAME TO BE RECORDED AS SUCH, ACCORDING TO THE LAW.

_____, (OWNER)

WITNESS MY HAND AND SEAL, THIS DATE _____

NOTARY PUBLIC _____ COMMISSION EXPIRES _____



PROPERTY OWNER

STATE COLLEGE AREA SCHOOL DISTRICT
240 VILLA CREST DRIVE
STATE COLLEGE, PA 16801
814-251-1011

SOURCE OF TITLE: DEED BOOK 0391, PAGE 0360 / PARCEL 18-003-061A
DEED BOOK 2516, PAGE 0426 / PARCEL 18-016-251B

SURVEYOR OF RECORD

WEBER SURVEYORS
KEITH A. WEBER, PLS.
431 STONY BATTERY ROAD
LANDISVILLE, PA 17536
(717) 845-1466

PLAN PURPOSE

THE PURPOSE OF THIS PLAN IS TO CONSOLIDATE PARCEL 18-003-061A AND PARCEL 18-016-251B INTO A SINGLE PARCEL. NO DEVELOPMENT IS PROPOSED WITH THIS PLAN.

SITE DATA

PROJECT SITE ADDRESS:	207 LITTLE LION DRIVE
PARCEL DATA:	PARCEL 18-003-061A = 18,5044 ACRES PARCEL 18-016-251B = 1,4255 ACRES
TOTAL ACRES AFTER CONSOLIDATION =	25.46
ZONING DISTRICT:	PARCEL 18-003-061A = R-1 RURAL RESIDENCE PARCEL 18-016-251B = R-3 MEDIUM DENSITY RESIDENCE
MAXIMUM LOT COVERAGE:	R-1 = 20% / R-3 = 25%
MINIMUM SETBACKS REQUIRED:	FRONT 30' / SIDE 30' / REAR 15' / R-3 20' / 25'
MAX. BUILDING HEIGHT:	R-1 = 35' / R-3 = 50'
MAX. STRUCTURE HEIGHT:	R-1 = 50' / R-3 = NOT LISTED

SOILS LEGEND

M-B	MORRISON SANDY LOAM, 2-8% SLOPES
M-C	MORRISON SANDY LOAM, 8-15% SLOPES
M-B	MORRISON VERY STONY SANDY LOAM, 0-8% SLOPES
M-A	INTONING GRAVELLY SANDY LOAM, RARELY FLOODED, 0-5% SLOPES

EXISTING PROPERTY LINE CURVE TABLE

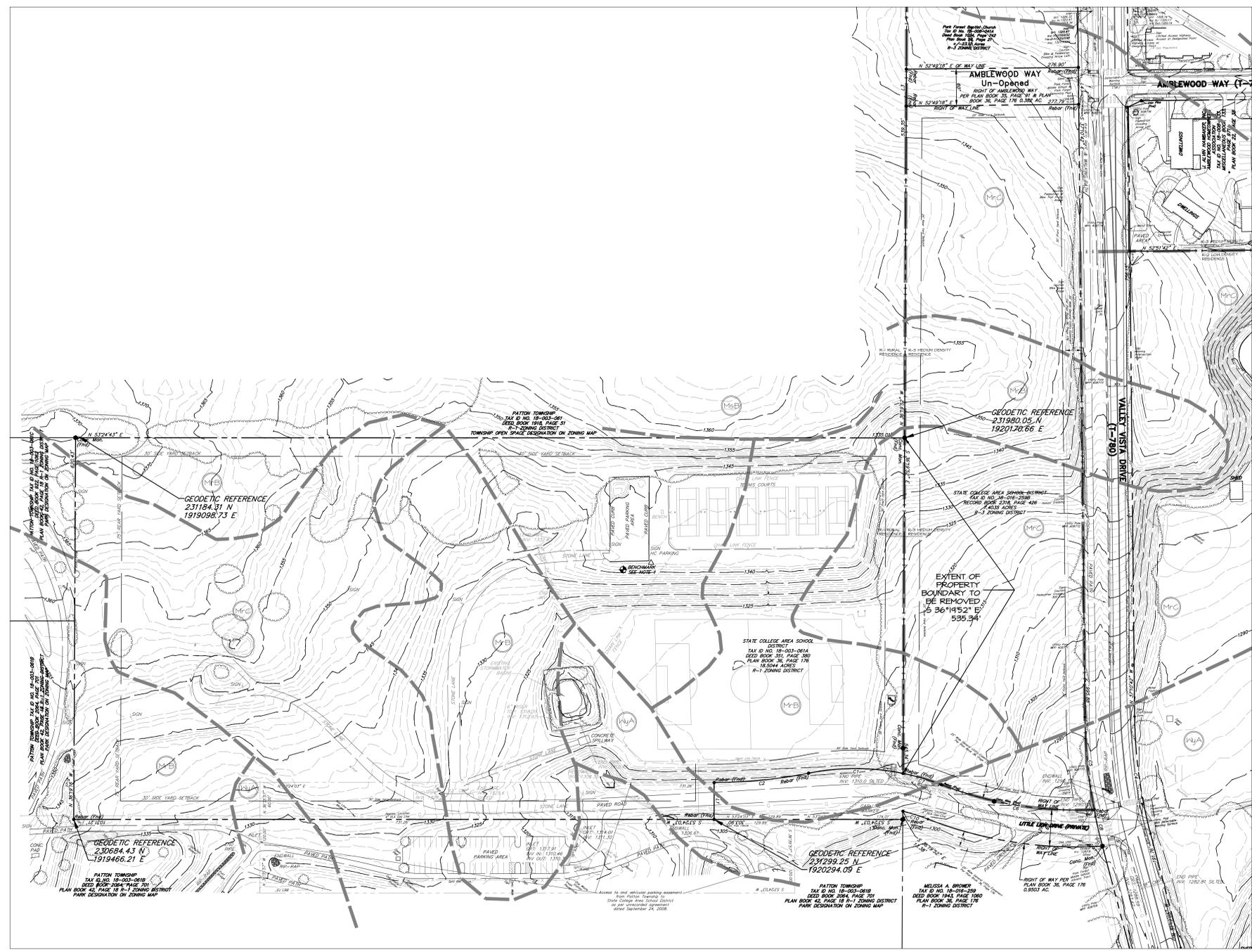
CURVE #	CURVE LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE
C1	153.09'	380.00'	02°10'00"	S 53°32'32" W	152.06'
C2	153.20'	770.00'	01°12'35"	S 47°14'44" W	152.85'
C4	192.51'	780.08'	01°40'23"	N 44°14'54" W	192.03'
C5	151.43'	860.08'	01°05'15"	S 42°13'20" E	151.23'
C6	250.92'	591.59'	02°18'07"	S 62°44'12" W	249.04'
C7	64.75'	380.00'	00°45'47"	S 89°37'36" W	64.67'
C8	60.83'	860.08'	00°13'08"	S 89°17'31" E	60.82'
C9	286.80'	651.59'	02°12'09"	S 62°14'40" W	284.49'
C10	42.32'	320.00'	00°34'39"	S 71°03'02" W	42.29'

EXISTING PROPERTY LINE TABLE

LINE #	BEARING	DISTANCE
L1	S 36°35'53" E	60.00'
L3	N 36°19'52" W	60.01'
L4	S 37°10'42" E	60.00'

LINE AND SYMBOL LEGEND

EXISTING	PROPERTY LINE
---	LEGAL RIGHT-OF-WAY LINE
---	ADJACENT PROPERTY BOUNDARY
---	EASEMENT LINE
---	EDGE OF PAVEMENT
---	BUILDING SETBACK
---	ZONING BOUNDARY
---	STORM SEWER
---	OVERHEAD ELECTRIC
---	UNDERGROUND GAS
---	MINOR CONTOUR (C.I.=1)
---	MAJOR CONTOUR (C.I.=5)
---	SOILS BOUNDARY
---	FENCE
●	CONCRETE MONUMENT FOUND
○	PROPERTY PIN SET
○	END OF LINE SEGMENT
---	SIGN
---	UTILITY POLE
---	UTILITY LINE
---	TREE LINE/BRUSH LINE



- Survey Notes:**
- Boundary, topography and physical features shown hereon obtained from a field survey performed by WEBER SURVEYORS completed on December 15, 2023. 931 Stony Battery Road, Landisville, PA 17536 (717) 898-9466. Aerial photography and mapping performed by Cooper Nor East, Flight date: November 25, 2023. Mapping completed on December 14, 2023. Coordinate System: PA State Plane, North Zone = 3701, Ref Frame: NAD83(2011) Epoch 2010.00. Boundaries for properties having Tax ID Nos. 18-003-061A (Athletic Field Tract) and 18-016-251A were completed as a portion of the boundary for the property having the Tax ID No. 18-016-256 (Park Forest Middle & Elementary Schools) was completed as part of this survey. Vertical Datum: NAVD83 (established by GPS observation). Benchmark: Survey control rebar located near the southeasterly corner of the parking area for the tennis courts. See plan. Elevation: 1343.33
 - Contour Interval: 1 Foot
 - Underground utilities have been shown according to surface evidence, markings provided by others, and/or plans provided by the others. The actual location of these utilities have not been field verified and the locations are approximate. WEBER SURVEYORS does not make any representation, warranty, assurance or guarantee that the underground utility location information provided by others and reflected on these drawings is correct or accurate. WEBER SURVEYORS assumes no responsibility for any damage as a result of underground utilities omitted or inaccurately shown.
 - All features shown are existing unless otherwise noted.
 - The marker designation (SET) indicates that the described marker will be set as part of this survey. The designation (Fnd) indicates that the marker was found during the field survey. Open circle with no designation indicates no marker found or set as part of this survey.
 - This survey was prepared without the benefit of a title search.
 - Gross lot area is calculated to the title line. Net lot area will exclude existing road right-of-ways and include any internal easements.
 - The surveyed properties shown hereon are not located within the 100 year flood plain according to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) map Number 42027C0616F with effective date of May 4, 2009.
 - Any revisions made to these plans after the date of plan preparation or latest revision date shall not be the responsibility of WEBER SURVEYORS. Plan date: January 2, 2023.

PENNSYLVANIA ACT 287 AMENDED BY ACT 50 (2017) REQUIRES NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.

DATE: 11/10/2023 BY: WES SERIAL NO.: 20233142260 (2180 School Drive) 20233142262 (Athletic Field Tract)

- | | | |
|--|---|--|
| COLUMBIA GAS OF PA INC
1600 DUBLIN RD
COLUMBUS, OH 43215
LISA COLLINS
lcollins@columbiagas.com
614-325-5961 | FIRSTENERGY CORPORATION
21 S MAIN ST
AARON, OH 44308
MELLYSSA ADAMS
madams@firstenergycorp.com
330-604-6073 | STATE COLLEGE BOROUGH WATER AUTHORITY
1201 W BRANCH RD
STATE COLLEGE, PA 16801
AUSTIN SHETLER
ashetler@scwa.org
814-238-6788 EXT. 125 |
| COMCAST CABLE COMMUNICATIONS
C/O USIC LOCATING SERVICES INC
13085 HAMILTON CROSSING BLVD STE 200
CARMEL, IN 46032
USIC OFFICE PERSONNEL
music@ps.com
800-762-0592 EXT. 3 | PENN STATE UNIVERSITY
WASTEWATER TREATMENT PLANT
STATE COLLEGE, PA 16801
DAREN BROWN
dbrown@psu.edu
814-865-7701 | UNIVERSITY AREA JOINT AUTHORITY
1578 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801
JEFF McDONALD
jmc@uajta.org
814-238-3361 EXT. 7715 |
| VERIZON PENNSYLVANIA LLC
1026 HAY ST
PITTSBURGH, PA 15221
DEBORAH BARUM
dbarum@verizon.com
412-344-3901 | PATTON TOWNSHIP
1026 HAY ST
STATE COLLEGE, PA 16803
ERIC CONFER
econfer@pattonpa.us
814-234-0271 | |

REVISIONS PER:	DATE:	BY:
1.	PATTON PLAN REVIEW DATED 8/21/25	8/25/25 THS
2.	-	-
3.	-	-
4.	-	-
5.	-	-

ELAGROUP
ENGINEERS + LANDSCAPE ARCHITECTS
2013 Sandy Drive, Suite 103, State College, PA 16803
814.861.6328
elagroup.com

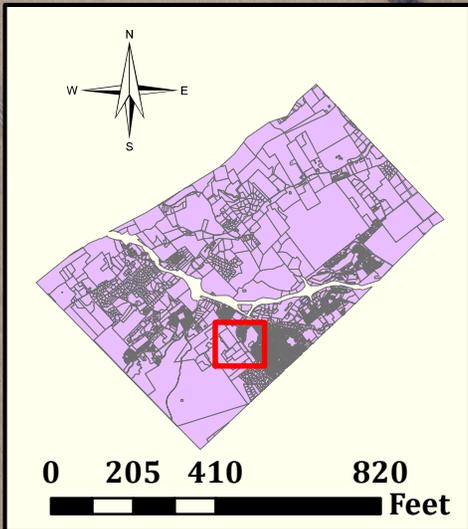
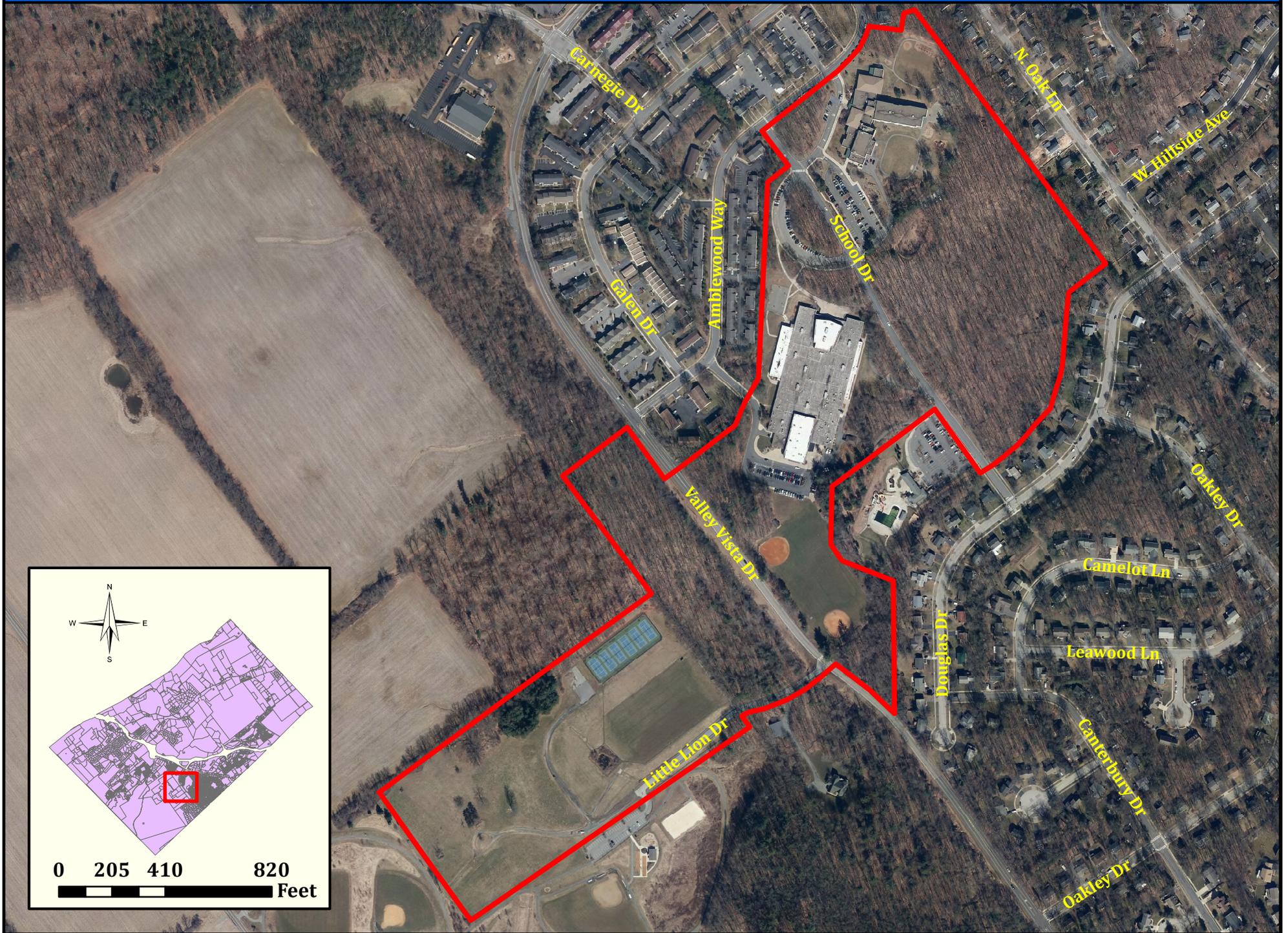
MANAGER:	THS	DATE:	AUGUST 8, 2025
ENGINEER:	GJL	PROJECT NO.:	SC148-040
DRAWN BY:	TJH	SCALE:	1" = 80'

LOT CONSOLIDATION PLAN
SUBJECT:
LOT CONSOLIDATION PLAN
FOR
NEW PARK FOREST MIDDLE SCHOOL
PATTON TOWNSHIP, CENTRE COUNTY, PENNSYLVANIA
CLIENT:
CRABTREE, ROHRBAUGH & ASSOCIATES
401 EAST WINDING HILL ROAD
MECHANICSBURG, PA 17055
(717) 458-0249

MANAGER:	THS	DATE:	AUGUST 8, 2025
ENGINEER:	GJL	PROJECT NO.:	SC148-040
DRAWN BY:	TJH	SCALE:	1" = 80'

DRAWING NO.
1 OF 1

Conditional Use Request - New Park Forest Middle School



**REQUEST FOR CONDITIONAL USE PERMIT FOR SCHOOL USE:
PARK FOREST MIDDLE SCHOOL—207 LITTLE LION DRIVE (TP: 18-003-,061A,0000-)**

Hearing Date: February 25, 2026

*This document is a series of facts related to the conditional use application for the Park Forest Middle School, presented on behalf of the Township's Planning & Zoning Department, and entered as **Exhibit #1** for this Conditional Use Hearing.*

1. The subject of this hearing is a school use for State College Area School District (SCASD) located at the 207 Little Lion Drive (Tax Parcel 18-003-,061A,0000-), approximately 18.56 acres.
2. The subject property is zoned Rural Residence (R1).
3. The SCASD has submitted to the Township, a conditional use application, lot consolidation plan for tax parcels: 18-003-,061A,0000- and 18-016-,259B,0000-, as well as the land development plan for the new Park Forest Middle School.
4. The proposed project is 3-story, 278,000 gross square foot school with 384 parking spaces on-site and 68 satellite parking spaces that will remain at the existing middle school (18-016-,258-,0000-).
5. SCASD are requesting conditional use approval for the proposed school use. Per Article II Residential District, Table § 425-10B R-1 Uses, school uses require Conditional Use approval.
6. On August 19, 2025, ELA Group, Inc. on behalf of their client State College Area School District (SCASD), submitted a Conditional Use Application for a school use for the Park Forest Middle School.
7. The Township received time extensions for the conditional use application on September 29, 2025, and November 21, 2025.
8. A conditional use is a land use that is permitted in a specified zoning district, and one that is subject to additional zoning requirements that applicants must meet as part of the conditional use process. Approval of a conditional use permit does not equate to zoning permit approval and it is a necessary step in the process for constructing the school.
9. The conditional use provisions require the Board of Supervisors to hold a public hearing on the application within 60 days of receiving a complete application and decide if the requested use is in accordance with the express standards and criteria provided in § 425-46A of the Township's Zoning Ordinance. The Board of Supervisors has 45 days following the public hearing to render a decision.
10. Reasonable conditions and safeguards, other than those related to off-site transportation improvements, in addition to those expressed in the zoning ordinance, can be attached to the conditional use permit as the Board may deem necessary for the health, safety, and welfare of the municipality. The conditions must be reasonably related to a valid public interest established in the record of application.
11. **Exhibit #2** is an aerial view using Centre County's Webia GIS mapping with the subject lot highlighted in blue.

12. **Exhibit #3** is § 425-46A of the Township's Zoning Ordinance. This section provides the criteria applicants must meet in order to obtain conditional use approval.
13. **Exhibit #4** is the application and supporting documents submitted by ELA Group, Inc. on behalf of their client State College Area School District.
14. Township staff have reviewed the conditional use proposal for compliance with § 425-46A. The following is a review of how the project meets, does not meet, or is working towards meeting the conditional use criteria.

Staff's review of the conditional use proposal:

The proposed school use is consistent with the stated intent of the Rural Residence zoning district, providing a complementary balance of residential and agricultural uses while preserving natural features and scenic landscapes.

This zoning district strives to encourage a variety of residential, agricultural and public institution uses, in appropriate locations. A school at this location will provide an additional amenity for residents of the community and visitors.

15. Staff's conclusion is that the proposal meets the intent of the conditional use criteria. Therefore, approval of the conditional use permit is recommended once the applicant has met all the conditions.

SCHOOL AS A CONDITIONAL USE IN RURAL RESIDENCE (R1)

§ 425-10B(3). Uses permitted as a conditional use. The uses shown in Table 425-10B shall be permitted as a conditional use, subject to meeting the procedures and criteria for conditional uses contained in § 425-57. If a conditional use approval is granted for any of these uses by the Board of Supervisors, the buffer yard requirements of § 425-46A must be addressed for all uses within this district.

§425-46. Design and improvement standards.

A. Environmental design. Development in the Planned Airport District should be based on an environmentally harmonious and aesthetically pleasing design. Consideration should be given to the overall character of the development and its visual effect on adjacent uses as well as the tenants of the development, residents of the Township and Centre Region at large. The following factors should be taken into account in the design and presented on all plans submitted pursuant to an approved master plan.

- (1) Existing trees should be inventoried and preserved whenever possible. Existing stands of mature healthy trees, hedgerows, waterways, historic sites, scenic points, views and vistas and other community assets and landmarks should be preserved. **Meets criterion.**
- (2) The development plan should be designed to minimize grading and other changes to the natural terrain. All graded slopes should blend with the surrounding terrain and development.

- (3) All landscaping shall be in conformance with an overall landscaping plan and unifying concept for the development. **Meets criterion.**
- (4) Buffer yards. The determination of the buffer yards shall be made through the use of Tables 3, 4 and 5.[1] All uses within each use classification would be considered to have an equal impact on neighboring uses. Impacts resulting from greater intensity uses on adjacent parcels would include: noise, dust, lighting glare, heat, traffic, building bulk and height, storage areas and impervious surface areas. The intensity of adjoining uses must also be determined from the classification system. Once the land use classifications are determined, the appropriate buffer yard can then be applied to the land development.
- (a) Buffer yards are required, as applicable, on each lot (or lease area) or land development area independent of adjoining uses or adjoining buffers. **Meets criterion.**
- (b) If a developed use increases in intensity or changes, increases in the buffer yards may be required by the Board of Supervisors. **Acknowledged by the applicant.**
- (c) Consideration should be given to utilizing existing vegetation as an element in the application of buffer yards. **Meets criterion.**
- (d) Buffer yards shall not be used for parking, loading, storage or structures. All except side buffer yards of interior lots may be crossed by access driveways and utility easements, provided that such are not more than 25 feet in width at the point of intersection. **Meets criterion.**
- (e) Where a required buffer yard is wider than the setback(s) required in the district, the wider dimension will govern. **Meets criterion.**
- (f) All plantings shall be selected to be compatible with the environmental conditions they will be exposed to. Any plant material that does not survive must be replaced within one year. **Meets criterion.**

16. Staff's conclusion is that the request meets the vast majority of the conditional use criterion provided in §425-46A. Therefore, approval of the conditional use permit is recommended.

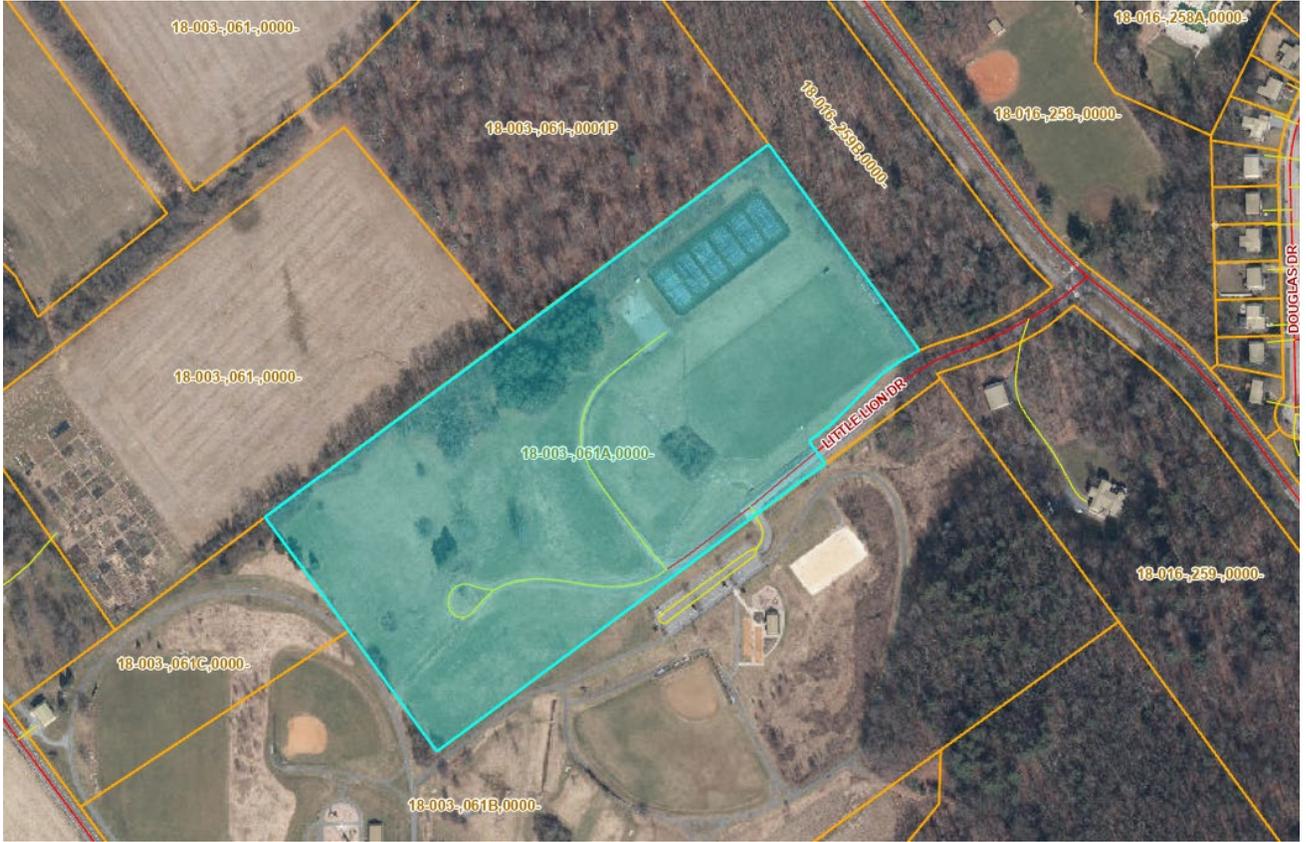
Staff recommends placing the following conditions on the conditional use permit. These conditions are intended to protect the public health, safety, and welfare and are reasonable related to the proposed use:

- The land development plan shall not be recorded until a Traffic Impact Study (TIS), resulting from the required signal warrants analysis, has been completed and reviewed to the satisfaction of Patton Township.
- No certificate of occupancy shall be issued for the proposed school until all required traffic-related improvements identified through the TIS have been fully constructed, installed, and inspected to the satisfaction of Patton Township.

- Throughout construction and during occupancy of the site, pedestrian and vehicular access to Circleville Park shall be maintained in a manner acceptable to the Township.
- During construction, the applicant shall install and maintain protective fencing along the Haugh Tract (Tax Parcel No. 18-003-061-0000), which is deed-restricted. This area shall not be disturbed during construction or occupancy.
- Prior to final plan approval, the applicant shall provide a shared parking agreement for the use of parking spaces located at the existing middle school site (Tax Parcel No. 18-016-258-0000). The agreement shall:
 - Preserve the availability of off-site parking for use associated with the new Park Forest Middle School (Tax Parcel No. 18-003-061A-0000);
 - Include provisions addressing the long-term use, maintenance, and access to the off-site parking; and
 - Include the use of the proposed pedestrian sidewalk connection between the existing school parking area and Valley Vista Drive. This sidewalk shall be maintained and adequately lit for the duration of time that the off-site parking is utilized.
 - In the event that the off-site parking at the existing middle school site (TP: 18-016-258-0000) is eliminated or otherwise made unavailable, the applicant shall provide equivalent replacement parking on the Park Forest Middle School property (TP: 18-003-061A-0000) and shall comply with Township ordinances
- The applicant proposes approximately 481,085 square feet of impervious coverage, resulting in a total impervious coverage of approximately 59.68% on Tax Parcel No. 18-003-061A-0000, which exceeds the 20% maximum impervious coverage permitted in the Rural Residence (R-1) Zoning District. The applicant shall fully mitigate the additional impervious coverage through the approved Stormwater Management Plan, to the satisfaction of Patton Township.
- Prior to plan recordation, the applicant shall enter into a Developer's Agreement with Patton Township, in a form acceptable to the Township Solicitor.
- A Declaration of Stormwater Access and Maintenance Easement (DSAME) shall be executed and recorded in the Office of the Recorder of Deeds of Centre County along with the plan recordation.

These condition may be placed on the permit as well as any other reasonable conditions the Board of Supervisors may wish to attach.

EXHIBIT 2



Centre County Webia Application

EXHIBIT 3

Township of Patton, PA
Monday, January 26, 2026

Chapter 425. Zoning

Article VIII. Planned Airport District

§ 425-46. Design and improvement standards.

- A. Environmental design. Development in the Planned Airport District should be based on an environmentally harmonious and aesthetically pleasing design. Consideration should be given to the overall character of the development and its visual effect on adjacent uses as well as the tenants of the development, residents of the Township and Centre Region at large. The following factors should be taken into account in the design and presented on all plans submitted pursuant to an approved master plan.
- (1) Existing trees should be inventoried and preserved whenever possible. Existing stands of mature healthy trees, hedgerows, waterways, historic sites, scenic points, views and vistas and other community assets and landmarks should be preserved.
 - (2) The development plan should be designed to minimize grading and other changes to the natural terrain. All graded slopes should blend with the surrounding terrain and development.
 - (3) All landscaping shall be in conformance with an overall landscaping plan and unifying concept for the development.
 - (4) Buffer yards. The determination of the buffer yards shall be made through the use of Tables 3, 4 and 5.^[1] All uses within each use classification would be considered to have an equal impact on neighboring uses. Impacts resulting from greater intensity uses on adjacent parcels would include: noise, dust, lighting glare, heat, traffic, building bulk and height, storage areas and impervious surface areas. The intensity of adjoining uses must also be determined from the classification system. Once the land use classifications are determined, the appropriate buffer yard can then be applied to the land development.
 - (a) Buffer yards are required, as applicable, on each lot (or lease area) or land development area independent of adjoining uses or adjoining buffers.
 - (b) If a developed use increases in intensity or changes, increases in the buffer yards may be required by the Board of Supervisors.
 - (c) Consideration should be given to utilizing existing vegetation as an element in the application of buffer yards.
 - (d) Buffer yards shall not be used for parking, loading, storage or structures. All except side buffer yards of interior lots may be crossed by access driveways and utility easements, provided that such are not more than 25 feet in width at the point of intersection.
 - (e) Where a required buffer yard is wider than the setback(s) required in the district, the wider dimension will govern.
 - (f) All plantings shall be selected to be compatible with the environmental conditions they will be exposed to. Any plant material that does not survive must be replaced within one year.

[1] *Editor's Note: Tables 3, 4 and 5 are included as attachments to this chapter.*



PATTON TOWNSHIP

100 PATTON PLAZA ● STATE COLLEGE, PA 16803

Telephone: 814-234-0271

www.twp.patton.pa.us

CONDITIONAL USE APPLICATION REQUEST

Applicant Information

State College Area School District C/O: Randy L. Brown

Name

240 Villa Crest Drive, State College, PA 16801

Street Address

City

State

Zip Code

814-231-1011

rlb21@scasd.org

Phone Number

Email Address

Property Information

(1) 18-003-061A, (2) 18-016-259B, (3) 18-016-258

(1) 18.5044 Acres

(1) R-1 Rural Residence

(2) 7.4035 Acres

(2) R-3 Medium Density Residence

(3) 50.244 Acres

(3) R-2 Low Density Residence

Tax Parcel Number

Lot Size

Zoning District

(1) 207 Little Lion Drive, (2) No address assigned, (3) 2180 School Drive, State College, PA 16803

Property Address

City

State

Zip Code

Is this a changed use?

Parcel 18-003-061A is currently used for school district physical curriculum and athletics. It is the site the School District is proposing to build a new middle school and will continue to be used for physical education curriculum and athletics. Parcel 18-016-259B has Little Lion Drive constructed on it and is used for access to both the school property and Circleville Park. The remaining portion of the site is undeveloped. This parcel is proposed to be improved with upgrades to Little Lion Drive, the construction of a new access drive across from Amblewood Drive, a small stormwater detention basin and utility a corridor for water, sewer, and electric services to the new school.

Specific section(s) of the Zoning Ordinance upon which this application is based:

R-1 Uses Table 425-10B & R-3 Uses Table 425-12B Conditional Uses Public and Private Schools

Explain your proposed plans and why you are requesting a conditional use:

State College Area School District is planning to construct a new Park Forest Middle School to relocate the existing school operations from the School Drive location to the new school located across Valley Vista Drive (207 Little Lion Drive) on property they purchased in 1975 and have been using the property for physical education curriculum and athletics. The District has recently purchased property between their existing property and Valley Vista Drive which is proposed to be consolidated with the Little Lion Drive property and used for access for pedestrians, passenger vehicles, and buses as well as for utility extensions to the new school building.

Explain how the proposed conditional use will be compatible with existing and planned land use in the surrounding neighborhood and with the intent of your zoning district:

The neighborhood is currently home to the existing Park Forest Middle School and the Existing Park Forest Elementary School. The new school will be a continuation of the same use within the neighborhood.

Describe how the conditional use would not have adverse effects on the surrounding properties in the following areas:

Pedestrian and vehicular traffic circulation and safety:

The project is proposing to construct a four-way intersection at Amble Wood Way which will have marked crosswalks for pedestrians and bicyclists to access the paved multi-use which will be buffered from the new access drive with a planting strip of ten-feet providing access to the new school. Little Lion Drive will also be improved and will also have a paved multi-use path providing access to the school as well as to Circleville Park. In addition roadway improvements on Valley Vista Drive at Amble Wood Drive and Little Lion Drive will be implemented by providing a right turn lane at Amble Wood Way and a left turn lane at Little Lion Drive.

The demand for the availability of public services and facilities (water, sewer, roads, etc.):

Roadways, utilities, and public services will not be impacted because the proposed development is a replacement of the existing school facility. The school and all it's demand on services is simply moving across Valley Vista Drive.

Are there existing buildings on the lot? If so, how many? Yes No # of Buildings: _____

What size(s) are the existing buildings (square feet)? _____

If proposing a building, please state the size (square feet)? 279,767 gross square feet

Some conditional uses have specific standards that must be met in addition to general requirements. The Board of Supervisors can only approve a use if all applicable standards are fully satisfied. The applicant must clearly explain how their project meets each standard – the burden of proof is on the property owner.

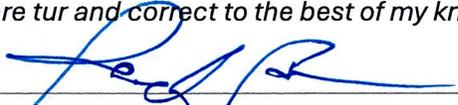
ATTACH A SEPARATE SHEET OF PAPER LISTING EACH APPLICABLE CONDITION AND YOUR DETAILED RESPONSE.



In addition to this application, documentation must be submitted in compliance with §425-57 of the Zoning Ordinance.

My signature authorizes permission to post this property and permission to Township officials and staff to enter thereon for inspection. My signature further authorizes a waiver of the 60-day requirement to hold the first hearing (from date of application) as stipulated in the Pennsylvania Municipalities Planning Code (MPC), recognizing that the Township will make every effort to abide by said requirement but if circumstances do not permit, to hold the first hearing as soon as reasonable feasible.

I certify that the information provided on this application and supporting documentation and plans are true and correct to the best of my knowledge, information, and belief.



Applicant Signature


Date

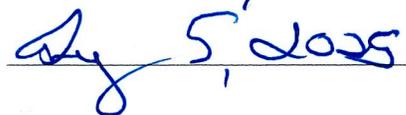


Applicant Print Name

WAIVER OF STENOGRAPHER RECORD

I agree to waive the requirements of Section 908 of the Pennsylvania Municipalities Planning Code (MPC) which requires that a stenographic record of the proceedings be made, and consent that a record of the proceedings be prepared from a tape recording of the hearing and the recording secretary's minutes.

Applicant's Signature: 

Date: 

-For Office Use Only-	
Date Received: _____	By: _____
Advertisement Dates: _____	
Planning Commission Review Date: _____	
Board of Supervisors Meeting Date: _____	

EXISTING LEGEND

- ADJOINER PROPERTY LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- EASEMENTS
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- SPOT ELEVATION
- CURB LINE
- EDGE OF PAVEMENT (E.O.P.)
- MIN. BLDG. SETBACK LINE
- OVERHEAD ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC
- GAS LINE
- SANITARY SEWER LINE
- SANITARY FORCE MAIN
- WATER LINE
- STORM DRAINAGE PIPING
- FENCE
- ZONING LINE
- GUIDE RAIL
- EDGE OF WATER (STREAM)
- FEMA 100 YEAR FLOODPLAIN
- TREE LINE

EXISTING PROPERTY LINE CURVE TABLE

CURVE #	CURVE LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE
C1	153.00'	380.00'	02°35'30"	S 53°35'37" W	152.89'
C2	153.20'	770.00'	01°12'39"	S 47°41'44" W	152.95'
C3	116.92'	780.00'	02°35'16"	N 47°01'28" W	116.81'
C4	182.51'	780.00'	01°42'02"	N 44°14'54" W	182.03'
C5	151.43'	860.00'	01°02'16"	S 42°13'20" E	151.23'
C6	250.92'	591.59'	02°41'07"	S 62°44'12" W	248.04'
C7	64.75'	380.00'	00°45'47"	S 69°57'58" W	64.67'
C8	60.83'	860.00'	00°03'08"	S 49°17'31" E	60.82'
C9	286.80'	651.59'	02°13'09"	S 62°16'40" W	284.49'
C10	42.32'	320.00'	00°34'39"	S 71°03'02" W	42.29'

EXISTING PROPERTY LINE LINE TABLE

LINE #	BEARING	DISTANCE
L1	S 36°35'57" E	60.00'
L2	S 52°52'45" W	18.33'
L3	N 36°19'52" W	60.01'
L4	S 37°10'42" E	60.00'

LEGEND

- PROPERTY LINE
- EASEMENT LINE
- CENTERLINE
- RIGHT-OF-WAY LINE
- BUILDING SETBACK LINE
- FENCE LINE
- CONCRETE CURB

CONCRETE PAVING

PROPOSED SANITARY SEWER MANHOLE

PROPOSED STORM WATER INLET

PROPOSED YARD DRAIN

PROPOSED STORM WATER MANHOLE

PROPOSED FIRE HYDRANT

HANDICAP ACCESSIBLE PARKING

BITUMINOUS HALTKWAT

CONCRETE MONUMENT

IRON PIN

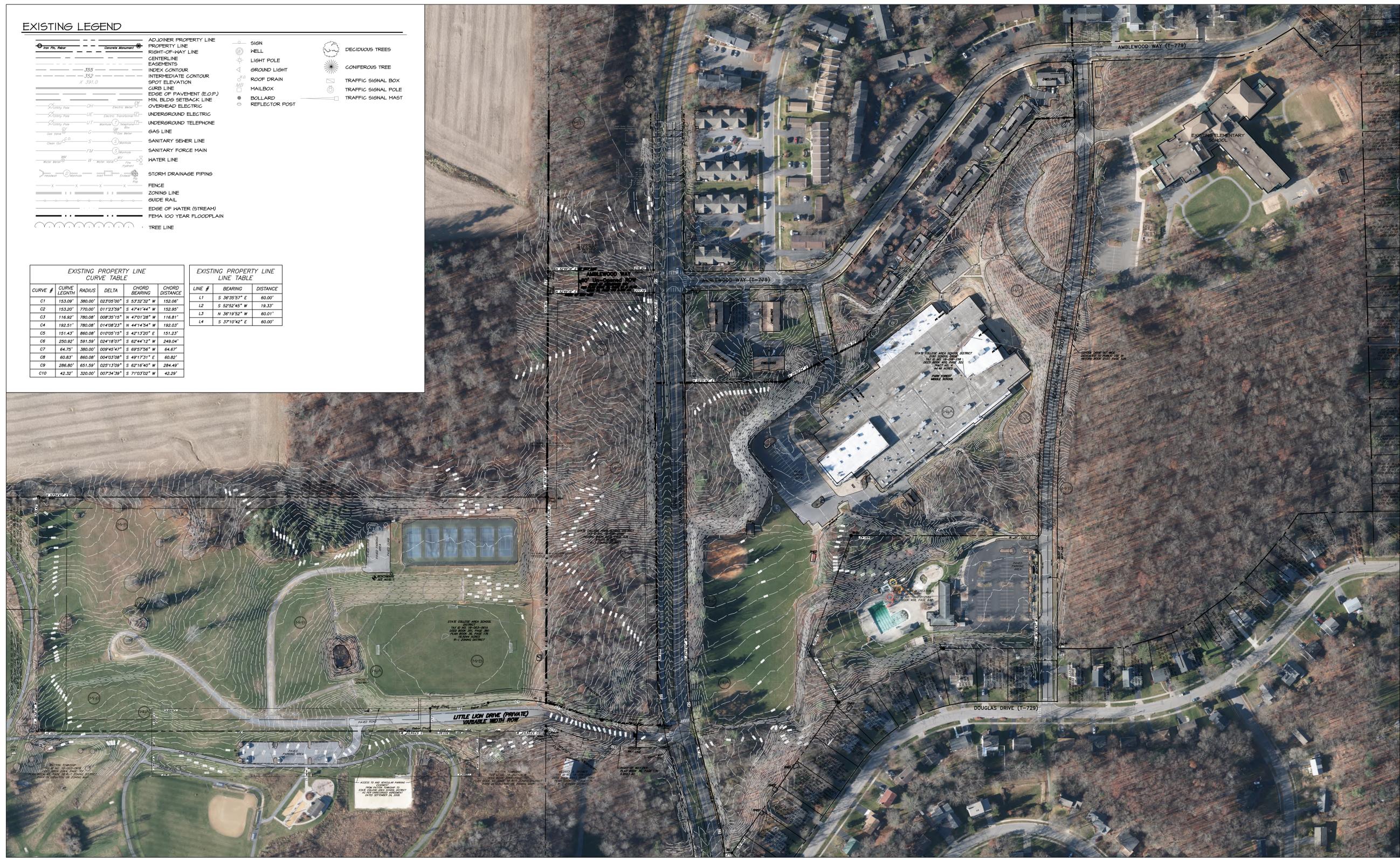
SIGNAGE

HEADWALL/ENDWALL

NORTH

SCALE IN FEET: 1" = 100'

0 50' 100' 200' 300'



PROJECT NARRATIVE

THE STATE COLLEGE AREA SCHOOL DISTRICT IS PLANNING A DEVELOPMENT PROJECT TO BUILD A NEW MIDDLE SCHOOL. THE NEW SCHOOL WILL BE A THREE-STORY MULTILEVEL BUILDING TOTALING APPROXIMATELY 210,000 GROSS SQUARE FEET OF FLOOR AREA. THE BUILDING WILL HAVE A THREE-STORY CLASSROOM WING BEGINNING AT A LOWER GRADE ELEVATION WITH THE SECOND FLOOR RISING FOURTEEN FEET FLOOR TO FLOOR THAT WILL HOUSE THE SECOND-FLOOR CLASSROOMS AS WELL AS THE MAIN ENTRY, ADMINISTRATION, CAFETERIA/FOOD PREP AREA, AUDITORIUM, GYMNASIUM, BAND FACILITIES, AND SERVICE AREA AND WILL BE ACCESSED ON AN AT GRADE ENTRY. THE THIRD-FLOOR CLASSROOM WINGS WILL BE CLASSROOMS.

SITE INFRASTRUCTURE WILL CONSIST OF UTILITY SERVICES FOR SEWER, WATER, ELECTRIC, AND GAS. TWO SUBSURFACE STORMWATER MANAGEMENT FACILITIES ARE PROPOSED AND TWO SURFACE STORMWATER MANAGEMENT FACILITIES ARE PROPOSED.

ROADWAY INFRASTRUCTURE WILL CONSIST OF THE CONSTRUCTION OF A FOUR-HAY INTERSECTION AT THE EXISTING INTERSECTION OF AMBLEWOOD WAY AND VALLEY VISTA DRIVE. AN ACCESS DRIVE WILL BE CONSTRUCTED FROM THE NEW FOUR-HAY INTERSECTION THROUGH THE PROPERTY AND WILL ACCESS THE SCHOOL ON THE NORTH SIDE OF THE BUILDING. EXISTING LITTLE LION DRIVE WILL BE IMPROVED AT VALLEY VISTA DRIVE AND INTO THE SITE TO ACCESS THE SCHOOL ON THE SOUTH SIDE OF THE BUILDING. THE ENTRANCE TO THE EXISTING PARKING LOT OF CIRCLEVILLE PARK ALONG LITTLE LION DRIVE WILL BE ADJUSTED SLIGHTLY IN LOCATION TO ALIGN WITH THE PARKING SPACES THAT ARE IMPACTED BY THE DRIVEWAY SHIFT. THIS WILL BE RECONSTRUCTED ON THE OPPOSITE, WESTERN END OF THE PARKING LOT WITH THE CONCRETE PAD AND FENCING FOR THE PORTA Potty ON THE WESTERN END OF THE PARKING LOT BEING RECONSTRUCTED AS WELL. VALLEY VISTA DRIVE IS PROPOSED TO BE IMPROVED WITH ROADWAY IMPROVEMENTS THAT WILL BE IDENTIFIED IN THE PROJECT TRAFFIC STUDY.

A SHARED-USE PAVED PATH IS PROPOSED ALONG BOTH THE ACCESS DRIVE FROM THE NEW FOUR-HAY INTERSECTION AT AMBLEWOOD WAY INTO THE SCHOOL ON THE NORTH SIDE OF THE BUILDING AND ALONG THE IMPROVED LITTLE LION DRIVE. THE SHARED USE PATH ALONG LITTLE LION DRIVE WILL ALSO PROVIDE A CONNECTION TO THE PATHWAY SYSTEM TO CIRCLEVILLE PARK ADJACENT TO THE PARK PARKING LOT ACCESS POINT.

FOR PHYSICAL EDUCATION, THERE ARE FOUR TENNIS COURTS PROPOSED, A NATURAL GRASS SOCCER FIELD, AND HARDSCAPE RECREATION AREA WITHIN THE BUS STAGING AREA.

PARKING DATA

TOTAL PARKING SPACES REQUIRED BY THE SUBDIVISION AND LAND DEVELOPMENT ORDINANCE = 464

REQUIRED SPACES CALCULATION:
 ONE SPACE FOR EVERY 600 GROSS SQUARE FEET OF FLOOR AREA
 PROPOSED GROSS FLOOR AREA IS 210,000 SQUARE FEET.
 210,000 / 600 = 350 ROUNDED UP TO 464 REQUIRED PARKING SPACES.

PASSENGER VEHICLE PARKING SPACES PROPOSED ARE 9' BY 18' FOR 90' SPACES AND 8' BY 24' FOR PARALLEL SPACES.

BUS STAGING SPACES PROPOSED ARE 12' WIDE BY 50' DEEP WITH 25' BETWEEN SPACES

PARKING COUNT:	EXISTING	PROPOSED
STANDARD	30	261 STANDARD (INCLUDES 12 ADA COMPLIANT SPACES)
BUS STAGING	0	19 BUS STAGING SPACES
SATELLITE	0	123 AFTER HOURS SPACES WITHIN THE BUS STAGING AREA
SATELLITE	0	68 SATELLITE SPACES AT THE EXISTING MIDDLE SCHOOL

COMBINED STANDARD & AFTER HOURS 261 + 123 = 384
 COMBINED STANDARD / AFTER HOURS / SATELLITE SPACES 384 + 68 = 452

BICYCLE PARKING REQUIRED:
 SCHOOLS: ONE SPACE FOR EVERY 3,000 SQUARE FEET OF GROSS FLOOR AREA
 210,000 / 3,000 = 70 (70) REQUIRED PROPOSED: 106
 20% TO BE LONG TERM = 14 (14) REQUIRED PROPOSED: 54
 20% TO BE LONG TERM = 18 (18) REQUIRED PROPOSED: 52

TREE INVENTORY

THE EXISTING TREES ON THE PROPERTY (PARCEL 18-003-061A / ZONED R-1) IS A RATHER MATURE MIX OF HARDWOODS AND EVERGREENS PREDOMINANTLY ALONG THE NORTHERN PROPERTY BOUNDARY WITH MANY SEEMINGLY TO BE NEARING THEIR LIFE EXPECTANCY AND SEVERAL STANDING DEAD AND/OR HAVE FALLEN. HARDWOODS CONSIST OF WHITE OAK, BLACK OAK, BLACK WALNUT, CHOKO CHERRY, WITH THE EVERGREENS CONSISTING OF SPRUCE AND WHITE PINE. THERE ARE A FEW INDIVIDUAL TREES AND SMALL GROUPINGS TOWARD THE WEST HALF OF THE PROPERTY CONSISTING OF CHERRY, BLACK WALNUT, WHITE PINE, WHITE OAK, AND SYPHAG. THE EXISTING DETENTION BASIN IS OVERGROWN AND NOT MAINTAINED WITH A VARIETY OF PLANTS AND TREES INCLUDING SMALL SUGAR MAPLES, SYPHAG, BLACK OAK, CHOKO CHERRY, AND QUINCE.

TREES WERE ON OTHER PORTIONS OF THE SCHOOL'S PROPERTY HAVE BEEN PRESERVED AS A RESULT OF THE DECISION OF THE SCHOOL BOARD AT A SCHOOL BOARD MEETING IN APRIL 2023.

DEVELOPMENT DATA

EXISTING USE / PROPOSED USE	EXISTING	PROPOSED
PHYSICAL EDUCATION CURRICULUM AND ATHLETICS PUBLIC MIDDLE SCHOOL		
COVERAGE		
BUILDING COVERAGE		
R-1 LAND AREA 206,254.22 S.F.	0.00 S.F. (0%)	158,943.25 S.F. (14.12%)
R-2 LAND AREA 193,671.66 S.F.	197,631.75 (10.20%)	NO CHANGE (0.20%)
R-3 LAND AREA 322,800.04 S.F.	0.00 S.F. (0%)	0.00 S.F. (0%)
LITTLE LION ROW LAND AREA 41,942.25 S.F.	0.00 S.F. (0%)	0.00 S.F. (0%)
AMBLEWOOD WAY ROW LAND AREA 16,640.78 S.F.	0.00 S.F. (0%)	0.00 S.F. (0%)
HARDSCAPE COVERAGE		
R-1 LAND AREA 206,254.22 S.F.	63,162.31 S.F. (10.4%)	322,041.64 S.F. (34.66%)
R-2 LAND AREA 193,671.66 S.F.	214,238.46 S.F. (11.3%)	221,311.48 S.F. (11.43%)
R-3 LAND AREA 322,800.04 S.F.	0.00 S.F. (0%)	25,244.25 S.F. (1.83%)
LITTLE LION ROW LAND AREA 41,942.25 S.F.	12,689.64 S.F. (3.33%)	22,124.50 S.F. (10.26%)
AMBLEWOOD WAY ROW LAND AREA 16,640.78 S.F.	0.00 S.F. (0%)	6,128.78 S.F. (4.04%)
TOTAL COVERAGE-BUILDING & HARDSCAPE COMBINED		
R-1-R-3-LITTLE LION ROW-AMBLEWOOD WAY ROW LAND AREA 1,065,801.44 S.F.		535,183.15 S.F. (45.10%)

PROPERTY OWNER

STATE COLLEGE AREA SCHOOL DISTRICT
 240 VILLA GREST DRIVE
 STATE COLLEGE, PA 16801
 814-231-1011

SOURCE OF TITLE: DEED BOOK 0351, PAGE 0380 / PARCEL 18-003-061A
 DEED BOOK 2310, PAGE 0426 / PARCEL 18-016-254B

SITE DATA

PROJECT SITE ADDRESS: 201 LITTLE LION DRIVE

PARCEL DATA:
 PARCEL 18-003-061A = 18.56 ACRES
 PARCEL 18-016-254B = 7.40 ACRES
 PARCEL 18-016-254 = 50.24 ACRES (9.5 ACRES IN PROJECT AREA)

ZONING DISTRICT: PARCEL 18-003-061A = R-1 RURAL RESIDENCE
 PARCEL 18-016-254B = R-3 MEDIUM DENSITY RESIDENCE
 PARCEL 18-016-254 = R-2 LOW DENSITY RESIDENCE

MAXIMUM LOT COVERAGE: R-1 = 20% / R-2 25% / R-3 = 25%

MINIMUM SETBACKS REQUIRED:

	R-1	R-2	R-3
FRONT	30'	30'	30'
SIDE	30'	10'	20'
REAR	15'	25'	25'

MAX. BUILDING HEIGHT: R-1 = 35' R-2 = 30' R-3 = 50'

MAX. STRUCTURE HEIGHT: R-1 = 50' R-2 = 50' R-3 = NOT LISTED

LIST OF DRAWINGS

DRAWING	NO.
EXISTING CONDITIONS PLAN	1 OF 5
SITE IMPROVEMENT PLAN	2 OF 5
GRADING AND DRAINAGE PLAN	3 OF 5
UTILITY PLAN	4 OF 5
LANDSCAPING PLAN	5 OF 5

REVISIONS PER:

NO.	REVISIONS PER:	DATE:	BY:
1.	PATTON TOWNSHIP COMMENTS	8/19/25	TJH
2.	COORDINATION WITH LD PLAN	1/27/26	THS
3.	-	-	-
4.	-	-	-
5.	-	-	-

ELAGROUP
 ENGINEERS • LANDSCAPE ARCHITECTS
 2013 Sandy Drive, Suite 103, State College, PA 16803
 814.861.6328 elagroup.com

CONDITIONAL USE

SUBJECT:
EXISTING CONDITIONS PLAN
 FOR
 NEW PARK FOREST MIDDLE SCHOOL
 PATTON TOWNSHIP, CENTRE COUNTY, PENNSYLVANIA

CLIENT:
CRABTREE, ROHRBAUGH & ASSOCIATES
 401 EAST WINDING HILL ROAD
 MECHANICSBURG, PA 17055
 (717) 458-0249

MANAGER: THS DATE: AUGUST 8, 2025

ENGINEER: GJL PROJECT NO. SC148-040

DRAWN BY: TJH SCALE: 1" = 100'

DRAWING NO.
1 OF 5

PLANT MENU

LARGE SHADE TREES						
KEY	SCIENTIFIC NAME	COMMON NAME	CALP SIZE	CONTAINER	COMMENTS	HEIGHT (FT) AT MATURITY
⊕	<i>Platanus x acerifolia</i> 'Bloodgood'	Bloodgood Planetree	2-1/2' - 3'	B4B		70
⊕	<i>Betula nigra</i>	River Birch	2-1/2' - 3'	B4B		60
⊕	<i>Tilia cordata</i> 'Greenspire'	Greenspire Linden	2-1/2' - 3'	B4B		40-70
⊕	<i>Gymnocladus dioica</i>	Kentucky Coffee Tree	2-1/2' - 3'	B4B		70

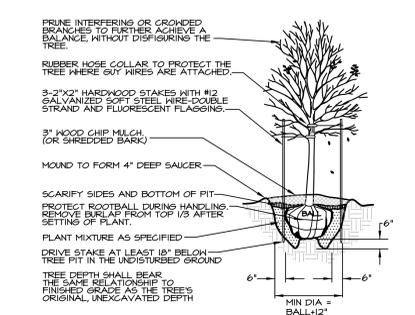
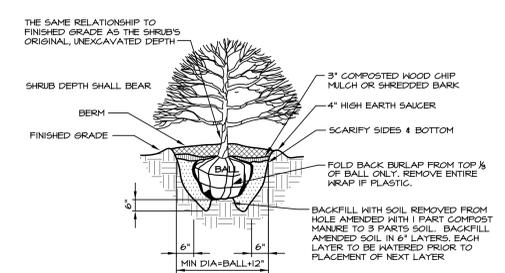
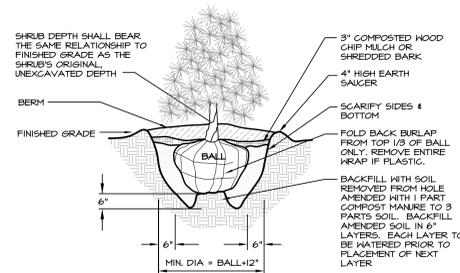
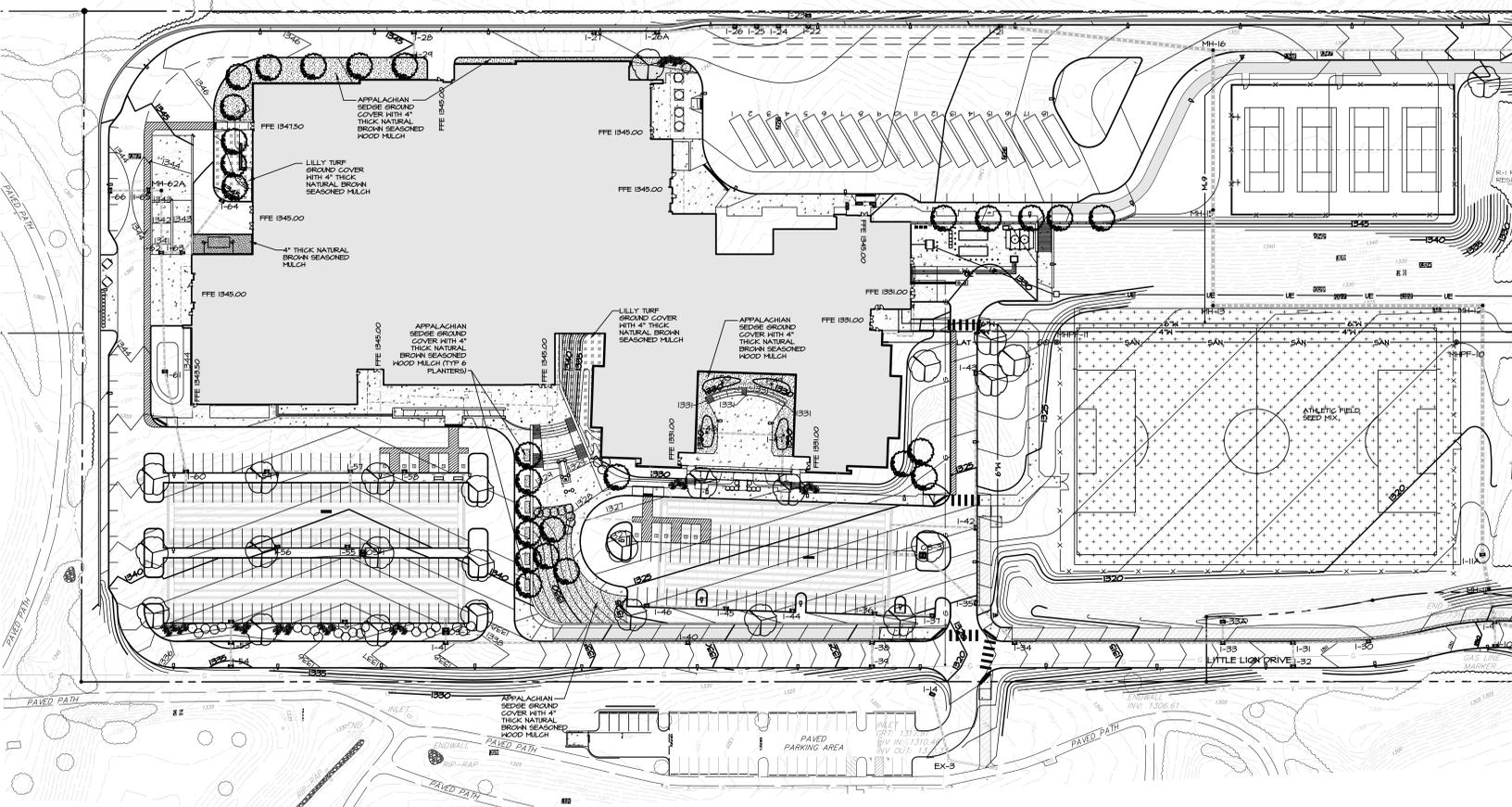
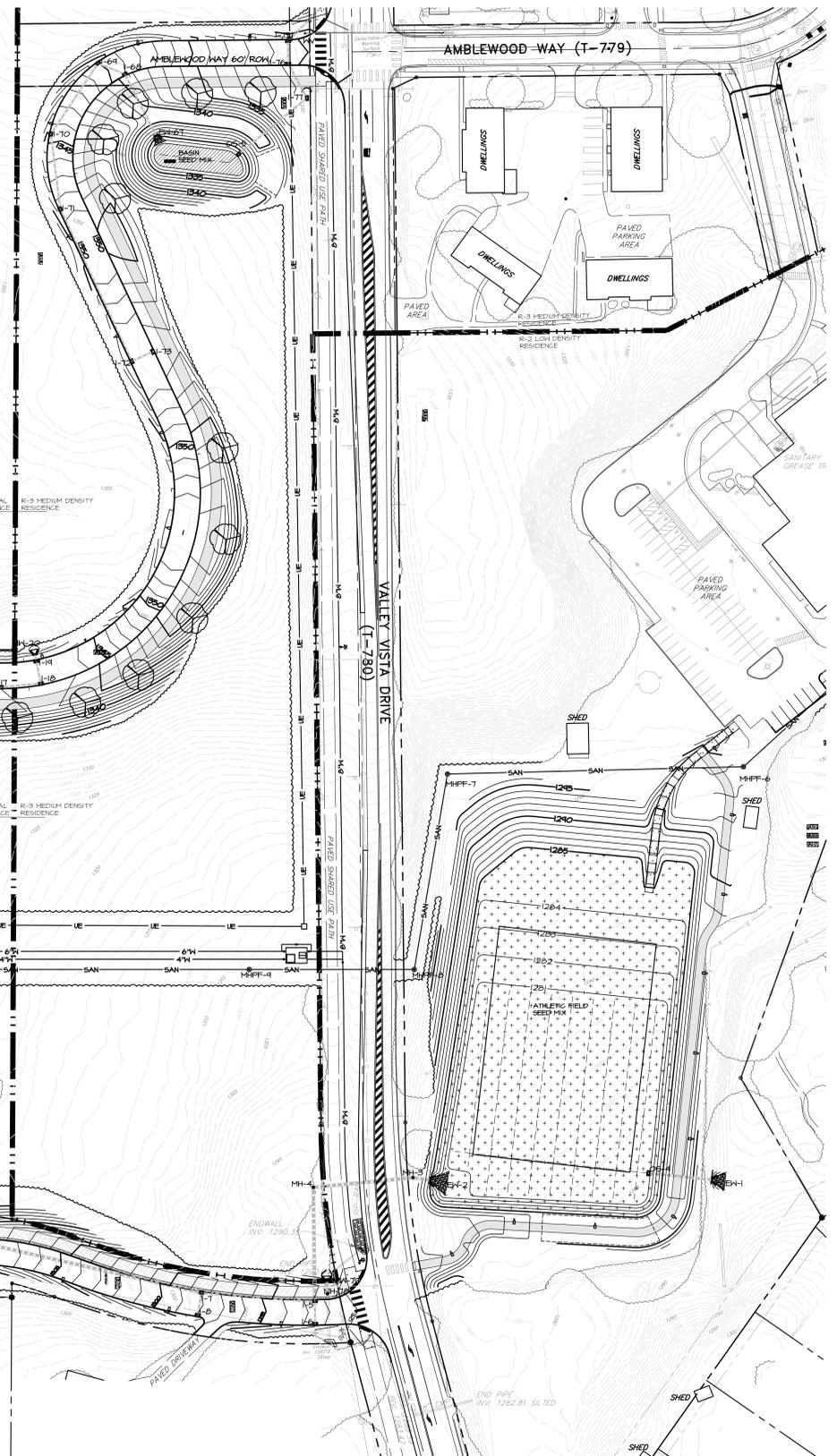
NATIVE SPECIMEN TREES					
KEY	SCIENTIFIC NAME	COMMON NAME	SIZE	CONTAINER	COMMENTS
⊕	<i>Carya ovata</i>	Shagbark Hickory	2-1/2' - 3'	B4B	
⊕	<i>Fagus grandifolia</i>	American Beech	2-1/2' - 3'	B4B	
⊕	<i>Liriodendron tulipifera</i>	Tulip Tree	2-1/2' - 3'	B4B	
⊕	<i>Nyssa sylvatica</i>	Black Gum	2-1/2' - 3'	B4B	

ORNAMENTAL TREES					
KEY	SCIENTIFIC NAME	COMMON NAME	SIZE	CONTAINER	COMMENTS
⊙	<i>Amelanchier laevis</i> 'Cumulus'	Cumulus Serviceberry	8 - 10'	B4B	Single Stem
⊙	<i>Cercis canadensis</i>	Redbud	8 - 10'	B4B	Single Stem
⊙	<i>Cornus florida</i> 'Cherokee Sunset'	Cherokee Sunset Dogwood	8 - 10'	B4B	
⊙	<i>Cornus kousa</i> 'Milky Way'	Milky Way Dogwood	8 - 10'	B4B	

SHRUBS					
KEY	SCIENTIFIC NAME	COMMON NAME	SIZE	CONTAINER	COMMENTS
⊙	<i>Abelia x grandiflora</i>	Glossy Abelia	18 - 24"	B4B	
⊙	<i>Clethra alnifolia</i>	Summersweet	18 - 24"	B4B	
⊙	<i>Ilex verticillata</i> 'Apollo'	Apollo Highberry	30 - 36"	B4B	MALE
⊙	<i>Myrica pensylvanica</i>	Northern Bayberry	30 - 36"	B4B	
⊙	<i>Pieris japonica</i>	Little Heath	24 - 30"	3 GAL.	
⊙	<i>Viburnum dentatum</i>	Arrowwood Viburnum	30 - 36"	B4B	

TURF & SPECIALTY GRASS MIXES			
KEY	USE/AREA	SEED/MIX NAME	SEEDING RATE
⊕	General Lawn and Restoration (all other disturbed areas)	20% Perennial Ryegrass 50% Kentucky Bluegrass (3 varieties) 30% Hard Fescue	4 - 5 Pounds per 1,000 Square Feet
⊕	Athletic Field	100% HST Kentucky Bluegrass Blend (Barelong - "Turf Blue HST" or approved equal)	3 Pounds per 1,000 Square Feet or per manufacturer's recommended rate if different
⊕	Detention Basin Bottom	Ernst Seed Mix "ERNMX-103"	2 Pounds per 1,000 Square Feet

GROUNDCOVERS					
KEY	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING / COMMENTS
⊕	3,000	<i>Carex appalachia</i>	Appalachian Sedge	PLUS/FLAT	1' O.C. / IN MULCH BED
⊕	1,600	<i>Liriope muscari</i>	Lily turf	NO. 1 CONT.	18" O.C. / IN MULCH BED



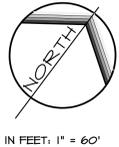
PLANT LEGEND

SYMBOL	DESCRIPTION	QUANTITY
⊕	LARGE SHADE AND NATIVE	36
⊙	ORNAMENTAL TREE	27
⊙	DECIDUOUS SHRUB	47
⊙	EVERGREEN SHRUB	24

NOTES:
 1. TREE AND SHRUB PLANTINGS MUST BE PROVIDED SO THAT NO SINGLE SPECIES ACCOUNTS FOR MORE THAN 10% OF THE TOTAL NUMBER OF THE PLANT CATEGORY.
 2. STAKE ALL TREES PER DETAIL WITH A MINIMUM OF THREE STAKES, BUT WIRE AND TRUNK PROTECTION.
 3. TREE SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE.
 4. NEVER CUT LEADERS.
 5. PRUNE ONLY TO REMOVE DAMAGED OR BROKEN BRANCHES.
 6. NOT MORE THAN TWENTY-FIVE PERCENT (25%) OF ANY ONE SPECIES OF TREE OR SHRUB SHALL BE USED WITHIN ANY LANDSCAPE MASSING.
 7. GROUND COVER BEDS SHALL BE PREPARED BY TILLING INTO THE FIRST 6" OF BED SOIL 3 C.Y. OF MUSHROOM COMPOST AND 3 C.Y. OF PEAT MOSS PER EVERY 100 S.F. OF BED AREA.
 8. ALL TREES NOT PLANTED WITHIN A MULCHED BED SHALL BE PROVIDED WITH A MULCH RING AT THE BASE EQUAL IN DIAMETER TO THE SPREAD OF THE BRANCHES.
 9. ALL AREAS OF DISTURBANCE NOT NOTED TO BE PLANTINGS WITH MULCH OR NOTED TO BE A SPECIFIC SEED MIXTURE SHALL BE PLANTED WITH THE GENERAL LAWN SEED MIX.

LEGEND

—	EXISTING STORM DRAINAGE PIPING
—	PROPOSED STORM DRAINAGE PIPING
—	EXISTING OVERHEAD ELECTRIC
—	PROPOSED UNDERGROUND ELECTRIC
—	EXISTING GAS LINE
—	PROPOSED GAS LINE
—	PROPOSED SANITARY SEWER LINE
—	PROPOSED WATER LINE



SCALE IN FEET: 1" = 60'

REVISIONS PER:

NO.	DATE	BY
1.	8/19/25	TJH
2.	1/27/26	THIS
3.	-	-
4.	-	-
5.	-	-

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CONDITIONAL USE
 SUBJECT:
LANDSCAPING PLAN
 FOR
 NEW PARK FOREST MIDDLE SCHOOL
 PATTON TOWNSHIP, CENTRE COUNTY, PENNSYLVANIA
 CLIENT:
CRABTREE, ROHRBAUGH & ASSOCIATES
 401 EAST WINDING HILL ROAD
 MECHANICSBURG, PA 17055
 (717) 458-0249

MANAGER:	THIS	DATE:	AUGUST 8, 2025
ENGINEER:	GIL	PROJECT NO.:	SC148-040
DRAWN BY:	TJH	SCALE:	1" = 60'

DRAWING NO.
5 OF 5

EVERGREEN SHRUB PLANTING DETAIL
 NO SCALE

DECIDUOUS SHRUB PLANTING DETAIL
 NO SCALE

DECIDUOUS TREE PLANTING DETAIL
 NO SCALE

Future Land Use Categories | 2045 Centre Region Comprehensive Plan



CATEGORIES		DEFINITIONS
Rural Residential		This category is for residential development in rural areas at very low densities. Uses are limited to single-family detached homes designed to preserve rural character and agricultural landscapes. Urban services such as public water and sewer are not available; development relies on on-site wells and septic systems. This category serves as a transition between agricultural areas and more intensive development, with large lots that minimize impacts on farming operations and natural resources. Lot sizes range from a minimum of 1 acre per dwelling unit or greater.
Low Density Residential		This category is for residential development at densities typically ranging from 1 to 4 dwelling units per acre. Uses are primarily single-family detached homes on individual lots, with occasional duplexes or two-family dwellings. These areas have urban services (water, sewer) and are characterized by larger lot sizes, lower building coverage, and more open space. Street networks are connected with sidewalks where appropriate. Lot sizes range from a minimum of 0.25 acres (10,890 SF) to 1 acre (43,560 SF) per dwelling unit. This land use category can be utilized for growth areas outside the regional growth boundary at 1 dwelling unit per 0.25 acres (10,890 SF).
Traditional Neighborhood Mixed Residential	Medium Density	This designation supports residential development at densities typically ranging from 4 to 12 dwelling units per acre. Neighborhoods include a mix of single-family detached homes, duplexes, townhomes, and small multi-family buildings. Development follows traditional neighborhood principles with smaller lots, rear-loaded or alley-accessed garages, short block lengths, sidewalks, street trees, and neighborhood greens or parks. Limited neighborhood-serving uses may be incorporated where appropriate to enhance walkability and serve local residents. Lot sizes range from a minimum of 0.08 acre (3,484 SF) to 0.25 acre (10,890 SF) per dwelling unit. This land use category can be utilized for growth areas outside the regional growth boundary.
	High Density	This designation supports compact residential neighborhoods exceeding 12 dwelling units per acre, incorporating higher-intensity housing forms such as stacked townhomes, garden apartments, and small apartment or condominium buildings. Development is designed according to traditional neighborhood principles, with buildings oriented to the street, pedestrian-scaled design, and connectivity to public transit, community amenities, and nearby centers. Parking is typically located to the rear, internal to the site, or in shared or structured facilities. Lot sizes are less than 0.08 acres (3,484 SF) per dwelling unit. This land use category can be utilized for growth areas outside the regional growth boundary.
Village		This category applies to historic villages within the Centre Region where a compact, walkable development pattern already exists or is intended to be preserved and enhanced. These areas feature a cohesive mix of residential, neighborhood-serving commercial, office, civic, and recreational uses integrated within a traditional village form. Buildings are typically one to three stories, with commercial uses on the ground floor and residential or office uses above. Development emphasizes pedestrian connectivity, shared parking, reduced setbacks, and human-scaled design that maintains the historic character and sense of place unique to each village.

<p>State College Downtown District</p>	<p>This category is for the central business and civic district of State College, characterized by high-density, mixed-use urban development. Uses include a diverse mix of commercial, office, residential, entertainment, cultural, civic, and institutional activities in a compact, walkable environment. Development is typically multi-story with buildings oriented to the street, minimal setbacks, and structured parking. This district emphasizes pedestrian, bicycle, and transit connectivity, with active ground-floor uses and public gathering spaces. Development intensity and urban design reflect the district's role as the regional center.</p>
<p>Neighborhood Mixed-Use Corridor</p>	<p>This category applies to neighborhood-scaled, mixed-use or commercial corridors that provide daily goods and services along established roadways directly abutting residential areas. Uses may include cafés, small groceries, personal services, and offices, designed to be compatible in scale and character with adjacent homes. Buildings typically emphasize pedestrian access, active ground floors, rear or shared parking, and reduced setbacks to frame a walkable streetscape. Upper floors may accommodate residential or office uses that support corridor vitality and provide transitions to surrounding neighborhoods. Design should respect neighborhood context through appropriate building placement, buffering, and streetscape enhancements that promote safety, comfort, and visual continuity.</p>
<p>Neighborhood Commercial</p>	<p>This category is for small-scale commercial nodes located within or at the edge of residential neighborhoods. Uses include convenience stores, cafés, small restaurants, local markets, personal services, professional offices, and neighborhood-serving services such as childcare or small clinics. These establishments are intended to meet the daily needs of nearby residents without drawing regional traffic. Development is typically arranged in compact clusters or at key intersections. Design emphasizes pedestrian access, neighborhood compatibility, and integration with surrounding homes.</p>
<p>Regional Mixed-Use</p>	<p>This category is for commercial development intended to serve a broad regional market area, often drawing customers from multiple municipalities. Uses include shopping centers, big-box commercial, auto dealerships, restaurants, entertainment venues, hotels, and other large-scale commercial establishments. These areas typically require access to major roadways and accommodate significant parking and traffic volumes. Development may be auto-oriented and should incorporate pedestrian and transit amenities where feasible.</p>
<p>Industrial</p>	<p>This category is for land dedicated to manufacturing, processing, warehousing, distribution, and related industrial activities. Uses include factories, production facilities, warehouses, distribution centers, wholesale trade, light and heavy manufacturing, research and development facilities with production components, and similar industrial operations. Associated office uses and commercial amenities are included. These areas should have access to major transportation routes and appropriate infrastructure.</p>
<p>Office</p>	<p>This category is for land dedicated primarily to professional office uses. Uses include corporate offices, medical offices, professional services, business parks, research and development facilities, and similar office-based employment centers. Buildings may range from single-tenant structures to multi-story office complexes. Light accessory commercial or service uses may be permitted to serve office workers.</p>

Public/Institutional	<p>This category includes land used for governmental, institutional, and community-serving facilities. Public uses include municipal buildings, police and fire stations, government offices, libraries, public schools, post offices, and similar civic facilities. Institutional uses include colleges and universities, hospitals, religious institutions, cemeteries, community centers, and specialized housing facilities (such as senior living, assisted living, or group homes). Facilities are typically larger-scale developments that serve community-wide or regional needs.</p>
Public Utilities	<p>This category is for land dedicated to public utility infrastructure and facilities necessary to serve the region. Uses include water treatment plants, wastewater treatment facilities, stormwater management systems, power generation plants, electrical substations, natural gas facilities, telecommunications infrastructure, cell towers, water storage facilities, and similar utility installations. Associated maintenance and administrative facilities are included.</p>
Public Open Space	<p>This category is for publicly owned or publicly accessible land dedicated to active or passive recreational uses, parks, and open space amenities. Uses include playgrounds, community parks, sports fields, trails, nature centers, greenways, and similar recreational facilities. These areas are intended to serve community recreation needs and may include associated structures such as pavilions, restrooms, and maintenance buildings.</p>
Rural Resources	<p>This category is for land in rural areas actively used for farming, agricultural production, or similar agrarian land uses where urban services are limited or do not exist. Uses include crop production, pastures, orchards, nurseries, livestock operations, and farmsteads. Single-family residential uses directly associated with agricultural operations (such as farmhouses and farm worker housing) may be included. This category also includes privately owned forested areas. This category includes properties enrolled in Agricultural Security Areas (ASA) and other agricultural lands that are not permanently restricted from conversion to other uses.</p>
Preserved / Conserved Resources	<p>This category is for land permanently dedicated to agricultural operations or open space protection through conservation easements, Purchase of Agricultural Conservation Easement (PACE) programs, deed restrictions, or similar preservation mechanisms. These areas include working farms with fields, pastures, farmsteads, specialty crops, and livestock production, as well as conserved open spaces that are protected from conversion to other uses through permanent legal mechanisms. Associated agricultural infrastructure such as barns, silos, and farm dwellings may be included. Urban services are not available, and development rights are restricted or transferred.</p>
Developed	<p>This category applies to land located outside the Regional Growth Boundary that has already been converted from its natural or agricultural state to accommodate non-residential uses such as neighborhood commercial, office, or industrial development. These areas are typically served by on-site infrastructure (e.g., private wells and septic systems) and are not intended for future expansion of urban services. While redevelopment or reuse may occur over time, the intent is to recognize existing developed patterns without encouraging additional growth or increased intensity beyond current conditions.</p>
Transportation	<p>This category includes land dedicated to transportation infrastructure and facilities. Uses include major roadways, highways, interchanges, public transit facilities, bus stations, park-and-ride lots, railroad rights-of-way, rail yards, airports, heliports, and associated support facilities. Ancillary uses such as maintenance facilities and administrative offices are included.</p>



**PATTON TOWNSHIP
CENTRE COUNTY, PENNSYLVANIA**

100 PATTON PLAZA – STATE COLLEGE, PENNSYLVANIA – 16803

PHONE: 814/234-0271 -- FAX: 814/238-7790

EMAIL: zoning@twp.patton.pa.us -- WEB SITE: <http://twp.patton.pa.us>

TO: Board of Supervisors
Planning Commission

FROM: Nicole Harter
Zoning Officer

DATE: January 30, 2026

SUBJECT: Development Update

The following activities concerning development, inquiries, possible development, and the open space properties within Patton Township occurred in the past month:

1. Township Staff are currently reviewing the following plans:
 - Park Forest Middle School Land Development Plan
 - Survey & Subdivision of Lands Titled to Becky Koleno
2. Zoning and Sign Permits issued in January 2026, please see attached report.
3. Rental Permit report for January 2026 is attached.

TOWNSHIP OF PATTON

100 Patton Plaza
State College, PA 16801
(814) 234-0271



Total Permits for 01/01/2026 to 01/30/2026

Permit Type	# of Permits	Total Declared Costs	Total Fees
Sign Permit	1	\$0.00	\$25.00
Zoning Permit	14	\$1,062,000.00	\$1,837.20
Total:	15	\$1,062,000.00	\$1,862.20

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Rental Permit Log - 01/01/2026 to 01/30/2026

License #	Location	Rental Type	Owner Occupation	Type of Property	Issue Date	Rental Status
PRP-2026-1	671 MARJORIE MAE ST	Long-Term	Non-Owner Occupied	Residential	1/15/2026	Current Rental
PRP-2026-3	107 WHISPER RIDGE DR	Long-Term	Non-Owner Occupied	Residential	1/21/2026	Proposed Rental
PRP-2026-2	2024 HIGHLAND DR	Long-Term	Non-Owner Occupied	Residential	1/21/2026	Proposed Rental
PRP-2026-4	1771 WOODLEDGE DR	Long-Term	Non-Owner Occupied	Residential	1/28/2026	Proposed Rental

Total # of Rental Permits: 4