

SEWAGE PLANNING MODULE

**Allentown School District – Sonia Sotomayor Dual Language Immersion
Academy – Modular Building**

Prepared by:

**Barry Isett & Associates Inc.
5420 Crackersport Road
Allentown, PA 18104
610-398-0904**

PADEP Code #: 2-39001378-3

**Project No. 1040745.004
February 2026**

SEWAGE PLANNING MODULE

Allentown School District – Sonia Sotomayor Dual Language Immersion Academy – Modular Building

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January 8, 2026

VIA ELECTRONIC MAIL:

Gina Bongiovanni, EIT
Barry Isett & Associates
5420 Crackersport Road
Allentown, PA 18104

Re: Checklist Letter
Sewage Facilities Planning Module Package - Component 3
Sonya Sotomayor Dual Language Immersion Academy - Modular Building
2020 E. Pennsylvania Street
624 GPD
DEP Code #: 2-39001378-3
City of Allentown, Lehigh County

Dear Gina Bongiovanni:

You are receiving this letter in response to your Sewage Facilities Planning Application Mailer submitted to the Department of Environmental Protection (DEP) for the proposed development specified above. Enclosed with this letter are a checklist and applicable sewage facilities planning module component and supporting forms. The checklist outlines what is required to be completed and submitted to the municipality and the DEP as a complete planning module package. The planning module must be completed and submitted to the municipality in which the project is located for review and, if acceptable, adoption. If the project boundary extends beyond a single municipality and/or county, then sign offs on the appropriate sections of the planning module must be obtained from all applicable municipalities and counties where the project is located. After adoption by the municipality, two (2) copies of the completed planning module package must be submitted to DEP for review and final action. Answer all questions within the planning module. If you feel a question is not applicable, please provide explanation; do not simply answer "N/A" or "Not Applicable".

The applicant and municipality should certify that the submittal is complete and includes all requested items by signing the enclosed Certification Statements. A copy of this letter and the signed Certification Statement should be attached to the planning module upon its submission.

This letter and the enclosed checklist are to be used by the applicant (or the applicant's authorized representative) as a guide when completing the Planning Module and do not supersede the rules and regulations found in Chapter 71.

In all cases, address the immediate and long-range sewage disposal needs of the project and comply with 25 Pa. Code, Chapter 71, Subchapter C relating to New Land Development Plan Revisions.

If you have any questions concerning the information required, please contact me at 570.826.2465 or by email at jmondulick@pa.gov.

Sincerely,

Jeffrey Mondulick

Jeffrey Mondulick
Sewage Planning Specialist
Clean Water Program

Enclosures: Certification Statement
Checklist
Component 3 Sewage Facilities Planning Module form
County Planning Agency Review form and its Instruction, 4B
Instructions for Component 3 Sewage Facilities Planning Module form
Municipality Planning Agency Review form and its Instruction, 4A
Resolution form
Transmittal Letter form

Checklist



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

Completeness Checklist

The individual completing the component should use the checklist below to assure that all items are included in the module package. The municipality should confirm that the required items have been included within 10 days of receipt, and if complete, sign and date the checklist.

Sewage Collection and Treatment Facilities

- Name and Address of land development project.
- U.S.G.S. 7.5 minute topographic map with development area plotted.
- Project Narrative.
- Letter from water company (if applicable).
- Alternative Analysis Narrative.
- Details of chosen financial assurance method.
- Proof of Public Notification (if applicable).
- Name of existing collection and conveyance facilities.
- Name and NPDES number of existing treatment facility to serve proposed development.
- Plot plan of project with required information.
- Total sewage flows to facilities table.
- Signature of existing collection and/or conveyance Chapter 94 report preparer.
- Signature of existing treatment facility Chapter 94 report preparer.
- Letter granting allocation to project (if applicable).
- Signature acknowledging False Swearing Statement.
- Completed Component 4 (Planning Agency Review) for each existing planning agency and health department.
- Information on selected treatment and disposal option.
- Permeability information (if applicable).
- Preliminary hydrogeology (if applicable).
- Detailed hydrogeology (if applicable).

Municipal Action

- Component 3 (Sewage Collection and Treatment Facilities).
- Component 4 (Planning Agency Comments and Responses).
- Proof of Public Notification.
- Long-term operation and maintenance option selection.
- Comments, and responses to comments generated by public notification.
- Transmittal Letter

Signature of Municipal Official

Date submittal determined complete

Checklist:

Applicant Checklist (√ or N/A)	Materials Required to be Included in the Planning Package	DEP Completeness Review
DEP Checklist Letter		
✓	DEP checklist letter is attached with items checked off by the applicant (or applicant's authorized representative) as included	
	DEP checklist letter certification statement completed and signed	
Transmittal Letter (Form 3850-FM-BCW0355)		
✓	Transmittal Letter is attached, completed and the appropriate boxes in Section (i) are checked.	
	Transmittal Letter is signed by the municipal secretary	
Resolution of Adoption (Form 3850-FM-BCW0356)		
✓	Resolution of Adoption is attached and completed	
	Resolution of Adoption is signed by the municipal secretary	
	Resolution of Adoption has a visible municipal seal	

Component 4A - Municipal Planning Agency Review (Form 3850-FM-BCW0362A)		
	Component 4A is attached, completed and signed	
	Municipal Responses to Component 4A comments are included	
Component 4B – County Planning Agency Review (Form 3850-FM-BCW0362B)		
	Component 4B is attached, completed and signed	
	Municipal Responses to Component 4B comments are included	
Component 3 Sewage Facilities Planning Module (Form 3800-FM-BPNPSM0353)		
<i>Section A: Project Information</i>		
✓	Section A.1. The Project Name is completed	
✓	Section A.2. The Brief Project Description is completed	
<i>Section B: Client Information</i>		
✓	Client Information is completed	
<i>Section C: Site Information</i>		
✓	Site Information is completed	
✓	A copy of the 7.5-minute USGS Topographic map is attached with the development site outlined, as required by the instructions and the checklist	
<i>Section D: Project Consultant Information</i>		
✓	Project Consultant Information is completed	
<i>Section E: Availability of Drinking Water Supply</i>		
✓	The appropriate box is checked in Section E	
✓	For existing public water supplies, the name of the company is provided	
✓	For public water supplies, the certification letter from the public water company is attached	
<i>Section F: Project Narrative</i>		
✓	The Project Narrative is attached	
✓	All information required in the module directions has been addressed	

<i>Section G: Proposed Wastewater Disposal Facilities</i>		
✓	Section G.1.a. The collection system boxes are checked	
✓	The Pennsylvania Clean Streams Law (CSL) permit number is provided for existing systems	
✓	Section G.1.b. The questions on the collection system are completed	
✓	Section G.2.a. The appropriate treatment facility box is checked	
✓	For existing treatment facilities, the name is provided	
✓	For existing treatment facilities, the NPDES permit number is provided	
✓	For existing treatment facilities, the CSL permit number is provided	
N/A	For new treatment facilities, the discharge location is provided	
✓	Section G.2.b. The certification statement has been completed and signed by the wastewater treatment facility permittee or their representative	
✓	Section G.3. The plot plan is attached and contains all items in the module instructions under Section G.3	
✓	The plot plan will show the proposed sewer facilities, sewer extension and/or point of connection to the existing sewer line or point of discharge	
N/A	Copies of easement(s) or right-of-way(s) are attached	
✓	Section G.4. The boxes are checked regarding Wetland Protection	
✓	Section G.5. The boxes are checked regarding Primary Agricultural Land	
✓	Section G.6. The boxes are checked confirming consistency with the Historic Preservation Act	
N/A	The Cultural Resources Notice (CRN) (Form 0120-PM-PY0003) is attached	
N/A	A return receipt for its submission to the PHMC is attached	
✓	The PHMC review letter is attached	
✓	Section G.7. The boxes are checked regarding Pennsylvania Natural Diversity Inventory (PNDI)	
✓	Pennsylvania Natural Diversity Inventory (PNDI) Project Environmental Review Receipt is attached	
	PNDI Review Receipt, if no potential impacts identified, is not older than 2 years	
✓	All supporting resolution documentation from jurisdictional agencies (when necessary) is attached and not older than 2 years	
N/A	A completed PNDI Manual Project Submission Form (PNDI Form) (Form 8100-FM-FR0161) is attached (if applicable) with all supplemental materials and not older than 2 years.	
<i>Section H: Alternative Sewage Facilities Analysis</i>		
✓	The Alternative Sewage Facilities Analysis is attached	
✓	All information required in the module directions has been addressed	
<i>Section I: Compliance with Water Quality Standards and Effluent Limitations</i>		
N/A	The box is checked regarding Waters Designated for Special Protection	
N/A	The Social or Economic Justification is attached	
N/A	The box is checked regarding Pennsylvania Waters Designated As Impaired	
N/A	The box is checked regarding Interstate and International Waters	

N/A	The box is checked regarding Tributaries to the Chesapeake Bay and the required information is provided	
N/A	The Name of Permittee Agency, Authority, Municipality and the Initials of Responsible Agent are provided	
N/A	If discharge to an intermittent stream, dry swale or manmade ditch is proposed, provide evidence that a certified letter has been sent to each owner of property over which the discharge will flow until perennial conditions are met	
<i>Section J: Chapter 94 Consistency Determination</i>		
✓	A map showing the path of the sewage to the treatment facility and the location of the discharge is provided	
✓	Section J.1. The Project Flows are provided	
✓	Section J.2. The permitted, existing, and projected average and peak flows are provided in the table for collection, conveyance and treatment facilities	
✓	Section J.3.a. The appropriate box is checked indicating capacity in the Collection and Conveyance Facilities	
✓	Section J.3.b. The Collection System information is completed, signed and dated	
✓	Section J.3.b. The Conveyance System information is completed, signed and dated	
✓	Section J.4.a. The appropriate box is checked regarding projected overloads at the Treatment Facility	
✓	Section J.4.b. The Treatment Facility information is completed, signed and dated	
✓	The Permittee of the wastewater treatment facility has submitted a Chapter 94 Wasteload Management Report, which includes the information for the collection and conveyance system to serve this project	
N/A	An acceptable Wasteload Management Report Corrective Action Plan (CAP) and schedule has been submitted, as well as a connection management plan	
N/A	A letter from the permittee, which grants allocations to the project consistent with the CAP, and a copy of the connection management plan has been submitted	
N/A	Letter indicating the treatment plant is an interim regional treatment facility is attached	
<i>Section K: Treatment and Disposal Options</i>		
N/A	For proposed treatment facilities, the appropriate box is checked indicating the selected Treatment and Disposal Option	
<i>Section L: Permeability Testing</i> *Not Required for this Project		
	The Permeability Testing information is attached	
<i>Section M: Preliminary Hydrogeologic Study</i> *Not Required for this Project		
	The Preliminary Hydrogeologic Study is attached	
	The Preliminary Hydrogeologic Study is signed and sealed by a Professional Geologist	

<i>Section N: Detailed Hydrogeologic Study</i>		*Not Required for this Project
	The Detailed Hydrogeologic Study is attached	
	The Detailed Hydrogeologic Study is signed and sealed by a Professional Geologist	
<i>Section O: Sewage Management</i>		
✓	Section O.1. The box is checked indicating municipal or private facilities	
✓	If municipal, the remainder of Section O is not applicable	
N/A	If private, the required analysis and evaluation of sewage management options is attached	
	Section O.2. The appropriate box is checked regarding the use of nutrient credits or offsets	
	Section O.3. The Project Flows for the private facilities are provided	
	Section O.4.a. The appropriate box is checked indicating capacity in the existing private Collection and Conveyance Facilities	
	Section O.4.b. The private Collection System information is completed, signed and dated	
	Section O.4.c. The private Conveyance System information is completed, signed and dated	
	Section O.5.a. The appropriate box is checked regarding projected overloads at the private Treatment Facility	
	Section O.5.b. The private Treatment Facility information is completed, signed and dated	
	Section O.6. The box is checked indicating the municipality will assure proper operation and maintenance of the proposed private facilities	
↓	The required documentation of sewage management is attached	
<i>Section P: Public Notification Requirement</i>		
✓	All Public Notification boxes in this section are checked	
N/A	The public notice is attached, if public notification is necessary	
	All comments received as a result of the notice are attached	
	The municipal responses to these comments are attached	
↓	The box is checked indicating that no comments were received, if valid	
<i>Section Q: False Swearing Statements</i>		
✓	The planning module preparer's false swearing statement is completed and signed	
<i>Section R: Planning Module Review Fee</i>		
✓	The correct fee has been calculated	
	The correct fee has been paid	
N/A	The request for fee exemption has been checked	
N/A	The deed reference information is provided to support the fee exemption	
<i>Completeness Checklist</i>		
✓	The module completeness checklist is included	
	All completeness items have been checked as included by the municipality, as appropriate	
	The Municipal Official has signed and dated the checklist	

2.0 Letter of Transmittal



**TRANSMITTAL LETTER
 FOR SEWAGE FACILITIES PLANNING MODULE**

DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) USE ONLY				
DEP CODE #	CLIENT ID #	SITE ID #	APS ID #	AUTH. ID #

TO: Approving Agency (DEP or delegated local agency)
 Northeast Regional Office
 2 Public Square
 Wilkes-Barre PA, 18701

Date _____

Dear Sir/Madam:

Attached please find a completed sewage facilities planning module prepared by Gina Bongiovanni _____
 (Name)
Staff Engineer, Barry Isett & Associates _____ for ASD SSDLIA - Modular Building _____
 (Title) (Name)
 a subdivision, commercial ,or industrial facility located in the City of Allentown _____

Lehigh _____ County.
 (City, Borough, Township)

Check one

(i) The planning module, as prepared and submitted by the applicant, is approved by the municipality as a proposed revision supplement for new land development to its Official Sewage Facilities Plan (Official Plan), and is adopted for submission to DEP transmitted to the delegated LA for approval in accordance with the requirements of 25 Pa. Code Chapter 71 and the *Pennsylvania Sewage Facilities Act* (35 P.S. §750),

OR

(ii) The planning module will not be approved by the municipality as a proposed revision or supplement for new land development to its Official Plan because the project described therein is unacceptable for the reason(s) checked below:

Check Boxes

- Additional studies are being performed by or on behalf of this municipality which may have an effect on the planning module as prepared and submitted by the applicant. Attached hereto is the scope of services to be performed and the time schedule for completion of said studies.
- The planning module as submitted by the applicant fails to meet limitations imposed by other laws or ordinances, officially adopted comprehensive plans and/or environmental plans (e.g., zoning, land use, 25 Pa. Code Chapter 71). Specific reference or applicable segments of such laws or plans are attached hereto.
- Other (attach additional sheet giving specifics).

Municipal Secretary: Indicate below by checking appropriate boxes which components are being transmitted to the approving agency.

- Resolution of Adoption
- Module Completeness Checklist
- 2 Individual and Community Onlot Disposal of Sewage
- 3 Sewage Collection/Treatment Facilities
- 3s Small Flow Treatment Facilities
- 4A Municipal Planning Agency Review
- 4B County Planning Agency Review
- 4C County or Joint Health Department Review

 Municipal Secretary (print)

 Signature

 Date

3.0 Resolution for Plan Revision for New Development

RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

RESOLUTION OF THE (SUPERVISORS) (COMMISSIONERS) (COUNCILMEN) of Allentown
(TOWNSHIP) (BOROUGH) (CITY), Lehigh COUNTY, PENNSYLVANIA (hereinafter "the municipality").

WHEREAS Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the *Pennsylvania Sewage Facilities Act*, as Amended, and the rules and Regulations of the Pennsylvania Department of Environmental Protection (DEP) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, require the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters of the Commonwealth and/or environmental health hazards from sewage wastes, and to revise said plan whenever it is necessary to determine whether a proposed method of sewage disposal for a new land development conforms to a comprehensive program of pollution control and water quality management, and

WHEREAS Allentown School District has proposed the development of a parcel of land identified as
land developer

ASD- SSDLIA- Muodular Building, and described in the attached Sewage Facilities Planning Module, and
name of subdivision

proposes that such subdivision be served by: (check all that apply), sewer tap-ins, sewer extension, new treatment facility, individual onlot systems, community onlot systems, spray irrigation, retaining tanks, other, (please specify). _____

WHEREAS, City of Allentown finds that the subdivision described in the attached
municipality

Sewage Facilities Planning Module conforms to applicable sewage related zoning and other sewage related municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the (Supervisors) (Commissioners) (Councilmen) of the (Township) (Borough) (City) of Allentown hereby adopt and submit to DEP for its approval as a revision to the "Official Sewage Facilities Plan" of the municipality the above referenced Sewage Facilities Planning Module which is attached hereto.

I _____, Secretary, _____
(Signature)

Township Board of Supervisors (Borough Council) (City Councilmen), hereby certify that the foregoing is a true copy of the Township (Borough) (City) Resolution # _____, adopted, _____, 20_____.

Municipal Address:

Seal of
Governing Body

Telephone _____

4.0 Sewage Facilities Planning Module Component 3



LEHIGH COUNTY AUTHORITY

1053 SPRUCE ROAD * P.O. BOX 3348 * ALLENTOWN, PA 18106-0348
610-398-2503 * FAX 610-398-8413 * www.lehighcountyauthority.org
email: service@lehighcountyauthority.org

January 21, 2026

Jennifer Gomez, AICP
Planning Director
City of Allentown
435 Hamilton Street
Allentown, PA 18101

RE: SSDLIA – Modular Building – 2020 E Pennsylvania Street, City of Allentown
Sewer Module - Chapter 94 Consistency Determination – Appendix A

Dear Mrs. Gomez,

This letter and approval for the attached Sewage Facilities Planning Module is based on the current estimate of available wastewater capacity. This letter does not promise, guarantee or assure any future conveyance or treatment allocation without compliance with all applicable rules and regulations, payment of all necessary fees and availability of the respective allocation at that time.

In accordance with the Interim Act 537 Plan submitted by the Kline’s Island Sewer System (KISS) municipalities to the Pa. Department of Environmental Protection and approved on June 25, 2021, an amount equal to the property or development’s wastewater flow will be allocated from the Connection Management Plan at the time of approval of the Sewage Facilities Planning Module. This property or development’s wastewater flow need, as represented in the attached Sewage Planning Module, is 624 gallons per day. Therefore, the Connection Management Plan balance will be adjusted as follows:

2020 Connection Management Plan Allocation (all numbers in gallons per day)	1,500,000
2021-2025 Connection Management Plan Allocation	3,117,129
Previously allocated from prior planning module submissions (since 1/17/20)	-2,365,802
This submission	-624
Remaining Allocation in KISS Connection Management Plan (as of 1/21/26)	2,250,703

Please contact me if you have any questions about this information.

Sincerely,

Liesel M. Gross
Chief Executive Officer

- cc: Scott Novatnak, DEP
- Jeffrey Mondulick, DEP
- Brandon Jones, COA
- Jesus Sadiua, COA
- David Petrik, COA
- Jedariah Bortz, COA
- Phil DePoe, LCA
- Gina Bongiovanni, Barry Isett & Associates



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SEWAGE FACILITIES PLANNING MODULE

Component 3. Sewage Collection and Treatment Facilities

(Return completed module package to appropriate municipality)

DEP USE ONLY				
DEP CODE #	CLIENT ID #	SITE ID #	APS ID #	AUTH ID #

This planning module component is used to fulfill the planning requirements of Act 537 for the following types of projects: (1) a subdivision to be served by sewage collection, conveyance or treatment facilities, (2) a tap-in to an existing collection system with flows on a lot of 2 EDU's or more, or (3) the construction of, or modification to, wastewater collection, conveyance or treatment facilities that will require DEP to issue or modify a Clean Streams Law permit. Planning for any project that will require DEP to issue or modify a permit cannot be processed by a delegated agency. Delegated agencies must send their projects to DEP for final planning approval.

This component, along with any other documents specified in the cover letter, must be completed and submitted to the municipality with jurisdiction over the project site for review and approval. All required documentation must be attached for the Sewage Facilities Planning Module to be complete. Refer to the instructions for help in completing this component.

REVIEW FEES: Amendments to the Sewage Facilities Act established fees to be paid by the developer for review of planning modules for land development. These fees may vary depending on the approving agency for the project (DEP or delegated local agency). Please see section R and the instructions for more information on these fees.

NOTE: All projects must complete Sections A through I, and Sections O through R. Complete Sections J, K, L, M and/or N if applicable or marked .

A. PROJECT INFORMATION (See Section A of instructions)

1. Project Name Allentown School District - Sonia Sotomayor Dual Language Immersion Academy (SSDLIA)- Modular Building

2. Brief Project Description Addition of modular building containing 10 classrooms and restroom facilities to the existing SSDLIA campus and removal of existing modular building

B. CLIENT (MUNICIPALITY) INFORMATION (See Section B of instructions)

Municipality Name	County	City	Boro	Twp
Allentown	Lehigh	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Bortz	Jedariah			Associate Engineer 2
Additional Individual Last Name	First Name	MI	Suffix	Title
Municipality Mailing Address Line 1		Mailing Address Line 2		
641 S 10 th Street				
Address Last Line -- City		State	ZIP+4	
Allentown		PA	18103-3173	
Area Code + Phone + Ext.	FAX (optional)	Email (optional)		
610-437-7574 +2253		jedariah.bortz@allentownpa.gov		

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name

Sonia Sotomayor Dual Language Immersion Academy - Modular Building

Site Location Line 1

2020 E Pennsylvania St

Site Location Line 2

Site Location Last Line -- City

Allentown

State

PA

ZIP+4

18109-1764

Latitude

Longitude

Detailed Written Directions to Site From US-22 E: Take the Airport Road S exit. In 0.2 miles, take the Catasaqua Rd exit at the light. Continue on Catasaqua Rd for 0.5 miles then turn right onto Pennsylvania Ave. In 0.6 miles, turn right onto Club Ave. In 0.3 miles, turn right onto E Pennsylvania St. The site will be on the left in 0.2 miles.

Description of Site Area of SSDLIA campus including existing modular building to be removed and grassed area to the South of the existing school building

Site Contact (Developer/Owner)

Last Name

Fick

First Name

Ethan

MI

Suffix

Phone

484-765-4983

Ext.

Site Contact Title

Executive Director of Facilities Services

FAX

Site Contact Firm (if none, leave blank)

Allentown School District

Email

fickb@allentownsd.org

Mailing Address Line 1

1301 Sumner Avenue

Mailing Address Line 2

Mailing Address Last Line -- City

Allentown

State

PA

ZIP+4

18102-1235

D. PROJECT CONSULTANT INFORMATION (See Section D of instructions)

Last Name

Bongiovanni

First Name

Gina

MI

Suffix

Title

Staff Engineer

Consulting Firm Name

Barry Isett & Associates

Mailing Address Line 1

5420 Crackersport Road

Mailing Address Line 2

Address Last Line -- City

Allentown

State

PA

ZIP+4

18104-9254

Country

USA

Email

gbongiovanni@barryisett.com

Area Code + Phone

610-398-0904

Ext.

7702

Area Code + FAX

E. AVAILABILITY OF DRINKING WATER SUPPLY

The project will be provided with drinking water from the following source: (Check appropriate box)

Individual wells or cisterns.

A proposed public water supply.

An existing public water supply.

If existing public water supply is to be used, provide the name of the water company and attach documentation from the water company stating that it will serve the project.

Name of water company: Lehigh County Authority

F. PROJECT NARRATIVE (See Section F of instructions)

A narrative has been prepared as described in Section F of the instructions and is attached.

The applicant may choose to include additional information beyond that required by Section F of the instructions.

G. PROPOSED WASTEWATER DISPOSAL FACILITIES (See Section G of instructions)

Check all boxes that apply, and provide information on collection, conveyance and treatment facilities and EDU's served. This information will be used to determine consistency with Chapter 93 (relating to wastewater treatment requirements).

1. COLLECTION SYSTEM

a. Check appropriate box concerning collection system

- New collection system Pump Station Force Main
 Grinder pump(s) Extension to existing collection system Expansion of existing facility

Clean Streams Law Permit Number Pipe Installed 1943, Permit 1944 *see attached

b. Answer questions below on collection system

Number of EDU's and proposed connections to be served by collection system. EDU's 1.56

Connections 1

Name of:

existing collection or conveyance system City of Allentown

owner City of Allentown/LCA-Lessee

existing interceptor Lehigh River Interceptor

owner City of Allentown/LCA-Lessee

2. WASTEWATER TREATMENT FACILITY

Check all boxes that apply, and provide information on collection, conveyance and treatment facilities and EDU's served. This information will be used to determine consistency with Chapter(s) 91 (relating to general provisions), 92 (relating to national Pollution Discharge Elimination System permitting, monitoring and compliance) and 93 (relating to water quality standards).

a. Check appropriate box and provide requested information concerning the treatment facility

- New facility Existing facility Upgrade of existing facility Expansion of existing facility

Name of existing facility Kline's Island WWTP

NPDES Permit Number for existing facility PA0026000

Clean Streams Law Permit Number 31905403

Location of discharge point for a new facility. Latitude _____ Longitude _____

b. The following certification statement must be completed and signed by the wastewater treatment facility permittee or their representative.

As an authorized representative of the permittee, I confirm that the Kline's Island WWTP (Name from above) sewage treatment facilities can accept sewage flows from this project without adversely affecting the facility's ability to achieve all applicable technology and water quality based effluent limits (see Section I) and conditions contained in the NPDES permit identified above.

Name of Permittee Agency, Authority, Municipality City of Allentown, LCA - Agent

Name of Responsible Agent Liesel M. Gross

Agent Signature _____ Date 1/21/26

(Also see Section I. 4.)

G. PROPOSED WASTEWATER DISPOSAL FACILITIES (Continued)

3. PLOT PLAN

The following information is to be submitted on a plot plan of the proposed subdivision.

- a. Existing and proposed buildings.
- b. Lot lines and lot sizes.
- c. Adjacent lots.
- d. Remainder of tract.
- e. Existing and proposed sewerage facilities. Plot location of discharge point, land application field, spray field, COLDS, or LVCOLDS if a new facility is proposed.
- f. Show tap-in or extension to the point of connection to existing collection system (if applicable).
- g. Existing and proposed water supplies and surface water (wells, springs, ponds, streams, etc.)
- h. Existing and proposed rights-of-way.
- i. Existing and proposed buildings, streets, roadways, access roads, etc.
- j. Any designated recreational or open space area.
- k. Wetlands - from National Wetland Inventory Mapping and USGS Hydric Soils Mapping.
- l. Flood plains or Flood prone areas, floodways, (Federal Flood Insurance Mapping)
- m. Prime Agricultural Land.
- n. Any other facilities (pipelines, power lines, etc.)
- o. Orientation to north.
- p. Locations of all site testing activities (soil profile test pits, slope measurements, permeability test sites, background sampling, etc. (if applicable).
- q. Soils types and boundaries when a land based system is proposed.
- r. Topographic lines with elevations when a land based system is proposed

4. WETLAND PROTECTION

YES NO

- a. Are there wetlands in the project area? If yes, ensure these areas appear on the plot plan as shown in the mapping or through on-site delineation.
- b. Are there any construction activities (encroachments, or obstructions) proposed in, along, or through the wetlands? If yes, Identify any proposed encroachments on wetlands and identify whether a General Permit or a full encroachment permit will be required. If a full permit is required, address time and cost impacts on the project. Note that wetland encroachments should be avoided where feasible. Also note that a feasible alternative **MUST BE SELECTED** to an identified encroachment on an exceptional value wetland as defined in Chapter 105. Identify any project impacts on streams classified as HQ or EV and address impacts of the permitting requirements of said encroachments on the project.

5. PRIME AGRICULTURAL LAND PROTECTION

YES NO

- Will the project involve the disturbance of prime agricultural lands?
If yes, coordinate with local officials to resolve any conflicts with the local prime agricultural land protection program. The project must be consistent with such municipal programs before the sewage facilities planning module package may be submitted to DEP.
If no, prime agricultural land protection is not a factor to this project.
- Have prime agricultural land protection issues been settled?

6. HISTORIC PRESERVATION ACT

- Applicants shall coordinate with the State Historic and Preservation Office (SHPO) and the Pennsylvania Historic and Museum Commission (PHMC) using the PA-SHARE online consultation tool at <https://www.pa.gov/agencies/phmc/pa-share.html>. The planning submittal must include the response received by the applicant from PA-SHARE.

7. PROTECTION OF RARE, ENDANGERED OR THREATENED SPECIES

Check one:

- The "Pennsylvania Natural Diversity Inventory (PNDI) Project Environmental Review Receipt" resulting from my search of the PNDI database and all supporting documentation from jurisdictional agencies (when necessary) is/are attached.
- A Manual Project Submission Form was submitted to each jurisdictional agency and their responses are attached.
- A concurrent review has been requested. I realize that all supporting documentation from each jurisdictional agency must be submitted to the DEP before the end of the technical review due date or my planning module may be denied.

Applicant or Consultant Initials _____.

H. ALTERNATIVE SEWAGE FACILITIES ANALYSIS (See Section H of instructions)

- An alternative sewage facilities analysis has been prepared as described in Section H of the attached instructions and is attached to this component.

The applicant may choose to include additional information beyond that required by Section H of the attached instructions.

I. COMPLIANCE WITH WATER QUALITY STANDARDS AND EFFLUENT LIMITATIONS (See Section I of instructions) (Check and complete all that apply.)

1. Waters designated for Special Protection

- The proposed project will result in a new or increased discharge into special protection waters as identified in Title 25, Pennsylvania Code, Chapter 93. The Social or Economic Justification (SEJ) required by Section 93.4c. is attached.

2. Pennsylvania Waters Designated As Impaired

- The proposed project will result in a new or increased discharge of a pollutant into waters that DEP has identified as being impaired by that pollutant. A pre-planning meeting was held with the appropriate DEP regional office staff to discuss water quality based discharge limitations.

3. Interstate and International Waters

- The proposed project will result in a new or increased discharge into interstate or international waters. A pre-planning meeting was held with the appropriate DEP regional office staff to discuss effluent limitations necessary to meet the requirements of the interstate or international compact.

4. Tributaries To The Chesapeake Bay

- The proposed project result in a new or increased discharge of sewage into a tributary to the Chesapeake Bay. This proposal for a new sewage treatment facility or new flows to an existing facility includes total nitrogen and total phosphorus in the following amounts: _____ pounds of TN per year, and _____ pounds of TP per year. Based on the process design and effluent limits, the total nitrogen treatment capacity of the wastewater treatment facility is _____ pounds per year and the total phosphorus capacity is _____ pounds per year as determined by the wastewater treatment facility permittee. The permittee has determined that the additional TN and TP to be contributed by this project (as modified by credits and/or offsets to be provided) will not cause the discharge to exceed the annual total mass limits for these parameters. Documentation of compliance with nutrient allocations is attached.

Name of Permittee Agency, Authority, Municipality _____

Initials of Responsible Agent (See Section G 2.b) _____

See *Special Instructions* (Form 3800-FM-BPNPSM0353-1) for additional information on Chesapeake Bay watershed requirements.

J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of instructions)

Projects that propose the use of existing municipal collection, conveyance or wastewater treatment facilities, or the construction of collection and conveyance facilities to be served by existing municipal wastewater treatment facilities must be consistent with the requirements of Title 25, Chapter 94 (relating to Municipal Wasteload Management). If not previously included in Section F, include a general map showing the path of the sewage to the treatment facility. If more than one municipality or authority will be affected by the project, please obtain the information required in this section for each. Additional sheets may be attached for this purpose.

1. Project Flows 624 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

When providing "treatment facilities" sewage flows, use Annual Average Daily Flow for "average" and Maximum Monthly Average Daily Flow for "peak" in all cases. For "peak flows" in "collection" and "conveyance" facilities, indicate whether these flows are "peak hourly flow" or "peak instantaneous flow" and how this figure was derived (i.e., metered, measured, estimated, etc.).

- a. Enter average and peak sewage flows for each proposed or existing facility as designed or permitted.
- b. Enter the average and peak sewage flows for the most restrictive sections of the existing sewage facilities.
- c. Enter the average and peak sewage flows, projected for 5 years (2 years for pump stations) through the most restrictive sections of the existing sewage facilities. Include existing, proposed (this project) and future project (other approved projects) flows.

To complete the table, refer to the instructions, Section J.

	a. Design and/or Permitted Capacity (gpd)		b. Present Flows (gpd)		c. Projected Flows in 5 years (gpd) (2 years for P.S.)	
	Average	Peak	Average	Peak	Average	Peak
Collection	0.35	1.39	0.04	0.85	0.05	0.86
Conveyance	15	19	2.4	18	2.45	18.4
Treatment	40	40	32.3	40	33.4	42

3. Collection and Conveyance Facilities

The questions below are to be answered by the sewer authority, municipality, or agency responsible for completing the Chapter 94 report for the collection and conveyance facilities. These questions should be answered in coordination with the latest Chapter 94 annual report and the above table. The individual(s) signing below must be legally authorized to make representation for the organization.

YES NO

- a. YES NO This project proposes sewer extensions or tap-ins. Will these actions create a hydraulic overload within five years on any existing collection or conveyance facilities that are part of the system?

If yes, this sewage facilities planning module will not be accepted for review by the municipality, delegated local agency and/or DEP until all inconsistencies with Chapter 94 are resolved or unless there is an approved Corrective Action Plan (CAP) granting an allocation for this project. A letter granting allocations to this project under the CAP must be attached to the module package.

If no, a representative of the sewer authority, municipality, or agency responsible for completing the Chapter 94 report for the collection and conveyance facilities must sign below to indicate that the collection and conveyance facilities have adequate capacity and are able to provide service to the proposed development in accordance with both §71.53(d)(3) and Chapter 94 requirements and that this proposal will not affect that status.

b. Collection System

Name of Agency, Authority, Municipality City of Allentown, LCA - Agent

Name of Responsible Agent Liesel M. Gross

Agent Signature  Date 1/21/26

J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of instructions)

c. Conveyance System

Name of Agency, Authority, Municipality City of Allentown, LCA-Agent

Name of Responsible Agent Liesel M. Gross

Agent Signature *Liesel M. Gross*

Date 1/21/26

4. Treatment Facility

The questions below are to be answered by a representative of the facility permittee in coordination with the information in the table and the latest Chapter 94 report. The individual signing below must be legally authorized to make representation for the organization.

YES NO

a. This project proposes the use of an existing wastewater treatment plant for the disposal of sewage. Will this action create a hydraulic or organic overload within 5 years at that facility?

If yes, this planning module for sewage facilities will not be reviewed by the municipality, delegated local agency and/or DEP until this inconsistency with Chapter 94 is resolved or unless there is an approved CAP granting an allocation for this project. A letter granting allocations to this project under the CAP must be attached to the planning module.

If no, the treatment facility permittee must sign below to indicate that this facility has adequate treatment capacity and is able to provide wastewater treatment services for the proposed development in accordance with both §71.53(d)(3) and Chapter 94 requirements and that this proposal will not impact that status.

b. Name of Agency, Authority, Municipality City of Allentown, LCA-Agent

Name of Responsible Agent Liesel M. Gross

Agent Signature *Liesel M. Gross*

Date 1/21/26

K. TREATMENT AND DISPOSAL OPTIONS (See Section K of instructions)

This section is for land development projects that propose construction of wastewater treatment facilities. Please note that, since these projects require permits issued by DEP, these projects may NOT receive final planning approval from a delegated local agency. Delegated local agencies must send these projects to DEP for final planning approval.

Check the appropriate box indicating the selected treatment and disposal option.

- 1. Spray irrigation (other than individual residential spray systems (IRSIS)) or other land application is proposed, and the information requested in Section K.1. of the planning module instructions are attached.
- 2. Recycle and reuse is proposed and the information requested in Section K-2 of the planning module instructions is attached.
- 3. A discharge to a dry stream channel is proposed, and the information requested in Section K.3. of the planning module instructions are attached.
- 4. A discharge to a perennial surface water body is proposed, and the information requested in Section K.4. of the planning module instructions are attached.

L. PERMEABILITY TESTING (See Section L of instructions)

The information required in Section L of the instructions is attached.

M. PRELIMINARY HYDROGEOLOGIC STUDY (See Section M of instructions)

The information required in Section M of the instructions is attached.

N. DETAILED HYDROGEOLOGIC STUDY (See Section N of instructions)

The detailed hydrogeologic information required in Section N. of the instructions is attached.

O. SEWAGE MANAGEMENT (See Section O of instructions)

(1-3 for completion by the developer(project sponser), 4-5 for completion by the non-municipal facility agent and 6 for completion by the municipality)

Yes No

1. Is connection to, or construction of, a DEP permitted, non-municipal sewage facility or a local agency permitted, community onlot sewage facility proposed.

If Yes, respond to the following questions, attach the supporting analysis, and an evaluation of the options available to assure long-term proper operation and maintenance of the proposed non-municipal facilities. If No, skip the remainder of Section O.

2. Project Flows _____ gpd

Yes No

3. Is the use of nutrient credits or offsets a part of this project?

If yes, attach a letter of intent to purchase the necessary credits and describe the assurance that these credits and offsets will be available for the remaining design life of the non-municipal sewage facility;

(For completion by non-municipal facility agent)

4. Collection and Conveyance Facilities

The questions below are to be answered by the organization/individual responsible for the non-municipal collection and conveyance facilities. The individual(s) signing below must be legally authorized to make representation for the organization.

Yes No

- a. If this project proposes sewer extensions or tap-ins, will these actions create a hydraulic overload on any existing collection or conveyance facilities that are part of the system?

If yes, this sewage facilities planning module will not be accepted for review by the municipality, delegated local agency and/or DEP until this issue is resolved.

If no, a representative of the organization responsible for the collection and conveyance facilities must sign below to indicate that the collection and conveyance facilities have adequate capacity and are able to provide service to the proposed development in accordance with Chapter 71 §71.53(d)(3) and that this proposal will not affect that status.

- b. Collection System

Name of Responsible Organization _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

- c. Conveyance System

Name of Responsible Organization _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

5. Treatment Facility

The questions below are to be answered by a representative of the facility permittee. The individual signing below must be legally authorized to make representation for the organization.

Yes No

- a. If this project proposes the use of an existing non-municipal wastewater treatment plant for the disposal of sewage, will this action create a hydraulic or organic overload at that facility?

If yes, this planning module for sewage facilities will not be reviewed by the municipality, delegated local agency and/or DEP until this issue is resolved.

If no, the treatment facility permittee must sign below to indicate that this facility has adequate treatment capacity and is able to provide wastewater treatment services for the proposed development in accordance with §71.53(d)(3) and that this proposal will not impact that status.

- b. Name of Facility _____
Name of Responsible Agent _____
Agent Signature _____
Date _____

(For completion by the municipality)

6. The **SELECTED OPTION** necessary to assure long-term proper operation and maintenance of the proposed non-municipal facilities is clearly identified with documentation attached in the planning module package.

P. PUBLIC NOTIFICATION REQUIREMENT (See Section P of instructions)

This section must be completed to determine if the applicant will be required to publish facts about the project in a newspaper of general circulation to provide a chance for the general public to comment on proposed new land development projects. This notice may be provided by the applicant or the applicant's agent, the municipality or the local agency by publication in a newspaper of general circulation within the municipality affected. Where an applicant or an applicant's agent provides the required notice for publication, the applicant or applicant's agent shall notify the municipality or local agency and the municipality and local agency will be relieved of the obligation to publish. The required content of the publication notice is found in Section P of the instructions.

To complete this section, each of the following questions must be answered with a "yes" or "no". Newspaper publication is required if any of the following are answered "yes".

Yes No

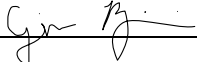
1. Does the project propose the construction of a sewage treatment facility ?
2. Will the project change the flow at an existing sewage treatment facility by more than 50,000 gallons per day?
3. Will the project result in a public expenditure for the sewage facilities portion of the project in excess of \$100,000?
4. Will the project lead to a major modification of the existing municipal administrative organizations within the municipal government?
5. Will the project require the establishment of *new* municipal administrative organizations within the municipal government?
6. Will the project result in a subdivision of 50 lots or more? (onlot sewage disposal only)
7. Does the project involve a major change in established growth projections?
8. Does the project involve a different land use pattern than that established in the municipality's Official Sewage Plan?

P. PUBLIC NOTIFICATION REQUIREMENT cont'd. (See Section P of instructions)

- 9. Does the project involve the use of large volume onlot sewage disposal systems (Flow > 10,000 gpd)?
- 10. Does the project require resolution of a conflict between the proposed alternative and consistency requirements contained in §71.21(a)(5)(i), (ii), (iii)?
- 11. Will sewage facilities discharge into high quality or exceptional value waters?
- Attached is a copy of:
 - the public notice,
 - all comments received as a result of the notice,
 - the municipal response to these comments.
- No comments were received. A copy of the public notice is attached.

Q. FALSE SWEARING STATEMENT (See Section Q of instructions)

I verify that the statements made in this component are true and correct to the best of my knowledge, information and belief. I understand that false statements in this component are made subject to the penalties of 18 PA C.S.A. §4904 relating to unsworn falsification to authorities.

Gina Bongiovanni	
Name (Print)	Signature
Staff Engineer	1/28/2026
Title	Date
5420 Crackersport Raad, Allentown PA, 18104	610-723-7702
Address	Telephone Number

R. REVIEW FEE (See Section R of instructions)

The Sewage Facilities Act establishes a fee for the DEP planning module review. DEP will calculate the review fee for the project and invoice the project sponsor **OR** the project sponsor may attach a self-calculated fee payment to the planning module prior to submission of the planning package to DEP. (Since the fee and fee collection procedures may vary if a "delegated local agency" is conducting the review, the project sponsor should contact the "delegated local agency" to determine these details.) Check the appropriate box.

- I request DEP calculate the review fee for my project and send me an invoice for the correct amount. I understand DEP's review of my project will not begin until DEP receives the correct review fee from me for the project.
- I have calculated the review fee for my project using the formula found below and the review fee guidance in the instructions. I have attached a check or money order in the amount of \$78 payable to "Commonwealth of PA, DEP". Include DEP code number on check. I understand DEP will not begin review of my project unless it receives the fee and determines the fee is correct. If the fee is incorrect, DEP will return my check or money order, send me an invoice for the correct amount. I understand DEP review will NOT begin until I have submitted the correct fee.
- I request to be exempt from the DEP planning module review fee because this planning module creates **only** one new lot and is the **only** lot subdivided from a parcel of land as that land existed on December 14, 1995. I realize that subdivision of a second lot from this parcel of land shall disqualify me from this review fee exemption. I am furnishing the following deed reference information in support of my fee exemption.

County Recorder of Deeds for _____ County, Pennsylvania

Deed Volume _____ Book Number _____

Page Number _____ Date Recorded _____

R. REVIEW FEE (continued)

Formula:

1. For a new collection system (with or without a Clean Streams Law Permit), a collection system extension, or individual tap-ins to an existing collection system use this formula.

$$\#1.56 \quad \text{Lots (or EDUs)} \times \$50.00 = \$ 78$$

The fee is based upon:

- The number of lots created or number of EDUs whichever is higher.
 - For community sewer system projects, one EDU is equal to a sewage flow of 400 gallons per day.
2. For a surface or subsurface discharge system, use the appropriate one of these formulae.

- A. A new surface discharge greater than 2000 gpd will use a flat fee:

\$ 1,500 per submittal (non-municipal)

\$ 500 per submittal (municipal)

- B. An increase in an existing surface discharge will use:

$$\# \quad \text{Lots (or EDUs)} \times \$35.00 = \$$$

to a maximum of \$ 1,500 per submittal (non-municipal) or \$ 500 per submittal (municipal)

The fee is based upon:

- The number of lots created or number of EDUs whichever is higher.
- For community sewage system projects one EDU is equal to a sewage flow of 400 gallons per day.
- For non-single family residential projects, EDUs are calculated using projected population figures

- C. A sub-surface discharge system that requires a permit under The Clean Streams Law will use a flat fee:

\$ 1,500 per submittal (non-municipal)

\$ 500 per submittal (municipal)

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#52

#59

www
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170-56

ESC

PERMIT
RELATIVE TO
SEWERAGE

Vol. # 50



FEB-29 1914
1:49 p.m.

City of Allentown
Lehigh County

PROCEEDINGS OF THE BOARD OF RECORDING OF DEEDS
IN AND FOR THE CITY OF ALLTOWN, PENNSYLVANIA
BOOK 170 PAGE 56
WITNESSE TO HAND AND SIGNATURES
OF John AD. 1944
DAY

RECORDED

8th
56

Misc.

5.0 City of Allentown Component 4A



SEWAGE FACILITIES PLANNING MODULE COMPONENT 4A - MUNICIPAL PLANNING AGENCY REVIEW

Note to Project Sponsor: To expedite the review of your proposal, one copy of your completed planning module package and one copy of this *Planning Agency Review Component* should be sent to the local municipal planning agency for their comments.

SECTION A. PROJECT NAME (See Section A of instructions)

Project Name

Allentown School District - Sonia Sotomayor Dual Language Immersion Academy - Modular Building

SECTION B. REVIEW SCHEDULE (See Section B of instructions)

1. Date plan received by municipal planning agency _____

2. Date review completed by agency _____

SECTION C. AGENCY REVIEW (See Section C of instructions)

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	1. Is there a municipal comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101, <i>et seq.</i>)?
<input type="checkbox"/>	<input type="checkbox"/>	2. Is this proposal consistent with the comprehensive plan for land use? If no, describe the inconsistencies _____
<input type="checkbox"/>	<input type="checkbox"/>	3. Is this proposal consistent with the use, development, and protection of water resources? If no, describe the inconsistencies _____
<input type="checkbox"/>	<input type="checkbox"/>	4. Is this proposal consistent with municipal land use planning relative to Prime Agricultural Land Preservation?
<input type="checkbox"/>	<input type="checkbox"/>	5. Does this project propose encroachments, obstructions, or dams that will affect wetlands? If yes, describe impacts _____
<input type="checkbox"/>	<input type="checkbox"/>	6. Will any known historical or archaeological resources be impacted by this project? If yes, describe impacts _____
<input type="checkbox"/>	<input type="checkbox"/>	7. Will any known endangered or threatened species of plant or animal be impacted by this project? If yes, describe impacts _____
<input type="checkbox"/>	<input type="checkbox"/>	8. Is there a municipal zoning ordinance?
<input type="checkbox"/>	<input type="checkbox"/>	9. Is this proposal consistent with the ordinance? If no, describe the inconsistencies _____
<input type="checkbox"/>	<input type="checkbox"/>	10. Does the proposal require a change or variance to an existing comprehensive plan or zoning ordinance?
<input type="checkbox"/>	<input type="checkbox"/>	11. Have all applicable zoning approvals been obtained?
<input type="checkbox"/>	<input type="checkbox"/>	12. Is there a municipal subdivision and land development ordinance?

SECTION C. AGENCY REVIEW (continued)

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	13. Is this proposal consistent with the ordinance? If no, describe the inconsistencies _____
<input type="checkbox"/>	<input type="checkbox"/>	14. Is this plan consistent with the municipal Official Sewage Facilities Plan? If no, describe the inconsistencies _____
<input type="checkbox"/>	<input type="checkbox"/>	15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____
<input type="checkbox"/>	<input type="checkbox"/>	16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
<input type="checkbox"/>	<input type="checkbox"/>	If yes, is the proposed waiver consistent with applicable ordinances? If no, describe the inconsistencies _____
17. Name, title and signature of planning agency staff member completing this section:		
Name: _____		
Title: _____		
Signature: _____		
Date: _____		
Name of Municipal Planning Agency: _____		
Address _____		
Telephone Number: _____		

SECTION D. ADDITIONAL COMMENTS (See Section D of instructions)

This component does not limit municipal planning agencies from making additional comments concerning the relevancy of the proposed plan to other plans or ordinances. If additional comments are needed, attach additional sheets.

The planning agency must complete this component within 60 days.

This component and any additional comments are to be returned to the applicant.

6.0 LVPC Component 4B



**SEWAGE FACILITIES PLANNING MODULE
COMPONENT 4B - COUNTY PLANNING AGENCY REVIEW**

(or Planning Agency with Areawide Jurisdiction)

Note to Project Sponsor: To expedite the review of your proposal, one copy of your completed planning package and one copy of this *Planning Agency Review Component* should be sent to the county planning agency or planning agency with areawide jurisdiction for their comments.

SECTION A. PROJECT NAME (See Section A of instructions)

Project Name
Allentown School District - Sonia Sotomayor Dual Language Immersion Academy - Modular Building _____

SECTION B. REVIEW SCHEDULE (See Section B of instructions)

1. Date plan received by county planning agency _____
2. Date plan received by planning agency with areawide jurisdiction _____
Agency name _____
3. Date review completed by agency _____

SECTION C. AGENCY REVIEW (See Section C of instructions)

- | Yes | No | |
|--------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | 1. Is there a county or areawide comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101 <i>et seq.</i>)? |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Is this proposal consistent with the comprehensive plan for land use? |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. Does this proposal meet the goals and objectives of the plan?
If no, describe goals and objectives that are not met _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Is this proposal consistent with the use, development, and protection of water resources?
If no, describe inconsistency _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Is this proposal consistent with the county or areawide comprehensive land use planning relative to Prime Agricultural Land Preservation?
If no, describe inconsistencies: _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Does this project propose encroachments, obstructions, or dams that will affect wetlands?
If yes, describe impact _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | 7. Will any known historical or archeological resources be impacted by this project?
If yes, describe impacts _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Will any known endangered or threatened species of plant or animal be impacted by the development project?
If yes, describe impacts _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Is there a county or areawide zoning ordinance? |
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Does this proposal meet the zoning requirements of the ordinance?
If no, describe inconsistencies _____ |

SECTION C. AGENCY REVIEW (continued)

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	11. Have all applicable zoning approvals been obtained?
<input type="checkbox"/>	<input type="checkbox"/>	12. Is there a county or areawide subdivision and land development ordinance?
<input type="checkbox"/>	<input type="checkbox"/>	13. Does this proposal meet the requirements of the ordinance? If no, describe which requirements are not met _____
<input type="checkbox"/>	<input type="checkbox"/>	14. Is this proposal consistent with the municipal Official Sewage Facilities Plan? If no, describe inconsistency _____
<input type="checkbox"/>	<input type="checkbox"/>	15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____
<input type="checkbox"/>	<input type="checkbox"/>	16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
<input type="checkbox"/>	<input type="checkbox"/>	If yes, is the proposed waiver consistent with applicable ordinances. If no, describe the inconsistencies _____
<input type="checkbox"/>	<input type="checkbox"/>	17. Does the county have a stormwater management plan as required by the Stormwater Management Act?
<input type="checkbox"/>	<input type="checkbox"/>	If yes, will this project plan require the implementation of storm water management measures?
18. Name, Title and signature of person completing this section:		
Name: _____		
Title: _____		
Signature: _____		
Date: _____		
Name of County or Areawide Planning Agency: _____		
Address: _____		
Telephone Number: _____		

SECTION D. ADDITIONAL COMMENTS (See Section D of instructions)

This component does not limit county planning agencies from making additional comments concerning the relevancy of the proposed plan to other plans or ordinances. If additional comments are needed, attach additional sheets.

The county planning agency must complete this component within 60 days.

This component and any additional comments are to be returned to the applicant.

7.0 Supporting Documentation

7.1 Project Narrative



📍 5420 Crackersport Road, Allentown, PA 18104

☎ 610.398.0904 📠 610.481.9098

🌐 barryisett.com

Project Narrative:

The Allentown School District (ASD) Sonia Sotomayor Dual Language Immersion Academy (SSDLIA) Modular Building site consists of one 6.22-acre lot containing the existing SSDLIA school building and one modular classroom building. The site is located at 1103 N Tacoma Street in the City of Allentown, Lehigh County, Pennsylvania, also listed by ASD as 2020 E Pennsylvania Street (PIN: 641830544726-1).

The project proposes the removal of the existing modular classroom building and the addition of one new 9,856 SF modular building containing 10 classrooms and restroom facilities. The project proposes a new gravity lateral connection to be installed to serve the modular building which would connect to the existing 6" gravity service line connecting to the main along N Tacoma Street.

The existing modular building supports 2 classrooms with 25 students per classroom and 2 staff members for a total of 52 occupants. The new modular building will support the same class sizing and staff ratio for a total of 250 students and 10 staff or 260 total occupants. Subtracting the existing population from the proposed addition, there is an expected increase of 200 students and 8 staff or 208 total occupants.

The current average usage for the existing modular classroom's population as well as the 222 staff and students occupying the brick and mortar building is 560 GPD. That gives a usage of approximately 2 GPD/person. Rounding that up to 3 GPD/person as a buffer, the anticipated increase in flows for the 208 additional occupants of the modular classroom would be 624 GPD. This equates to 2.62 City of Allentown/LCA EDUs or 1.56 PADEP EDUs.

7.2 Sewage Alternatives Analysis

Alternate Sewer Facilities Analysis:

Due to City of Allentown ordinance §490-3.E, because the property is already served by public sewerage, no other disposal options were considered for this project.

The project site is proposing to connect to the existing sanitary service line from the SSDLIA building which discharges to the existing City of Allentown - Lehigh County Authority (LCA) collection and conveyance system, into the LCA sewer system, and finally to the Kline's Island wastewater treatment plant.

Flows for the facilities would be:

208 occupants – 3 gpd per occupant*624 gpd

This flow will equate to 2.62 EDUs in the LCA system (and 1.56 PADEP EDUs).

*Based on existing usage data

7.3 Will Serve Letter



LEHIGH COUNTY AUTHORITY 1053 SPRUCE ROAD * P.O. BOX 3348 * ALLENTOWN, PA 18106-0348
610-398-2503 * FAX 610-398-8413 * www.lehighcountyauthority.org
email: service@lehighcountyauthority.org

January 16, 2026

Mrs. Jennifer Gomez
Planning Director
City of Allentown
435 Hamilton Street
Allentown, PA 18101

SUBJECT: 1103 E Tacoma St – ASD Replacing Existing Modular Building
Will Serve - Sewer Service

Dear Mrs. Gomez:

Lehigh County Authority (LCA) is willing to provide public sewer service in the requested amount of 624 GPD to the proposed modular classroom building to the site located at 1103 E Tacoma Street. The final GPD total will be reflected in the approved DEP sewer planning module.

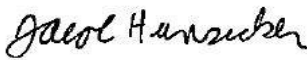
LCA has capacity at this time to provide sewer service in our collection system and at the city wastewater treatment plant for this development.

Tapping fees will be based upon the City of Allentown's ordinances and LCA's schedule of rate fees.

Sewer service is conditioned upon the following:

1. The developer obtaining approval of a PA-DEP Sewage Facilities Planning Module.
2. LCA approval of the site and plumbing plans.
3. Developer obtaining any road opening permits from the municipality and/or PA-DOT to construct the sewer mains and/or services.
4. Developer executing a Developer's Sewer System Agreement or a Construction Permit with LCA for construction of the sewer mains and/or services.
5. Developer installation of the sewer system in accordance with the approved plans and applicable LCA policies and regulations, including the current General Specifications for Sewer System Construction.
6. Developer compliance with the terms and conditions of LCA's Rules and Regulations for Sewer Service, including completion of an Application for Sewer Service and payment of applicable fees and charges in its Schedule of Wastewater Rates & Charges. Tapping fees shall be paid to LCA prior to building permits being provided by the City.

Sincerely,

A handwritten signature in black ink that reads "Jacob Hunsicker". The signature is written in a cursive, slightly slanted style.

Jacob Hunsicker
Capital Works Project Specialist

cc: Gina Bongiovanni – Barry Isett & Associates, Inc.
Brandon Jones - COA
Jesus Sadiua – COA
Jedariah Bortz – COA
Melissa Velez – COA
Brian Hite – COA
Paul Bogart – COA



LEHIGH COUNTY AUTHORITY 1053 SPRUCE ROAD * P.O. BOX 3348 * ALLENTOWN, PA 18106-0348
610-398-2503 * FAX 610-398-8413 * www.lehighcountyauthority.org
email: service@lehighcountyauthority.org

January 16, 2026

Mrs. Jennifer Gomez
Planning Director
City of Allentown
435 Hamilton Street
Allentown, PA 18101

SUBJECT: 1103 E Tacoma St – ASD Replacing Existing Modular Building
Will Serve - Water Service

Dear Mrs. Gomez:

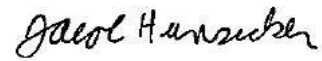
Lehigh County Authority (LCA) is willing to provide public water service in the requested amount of 624 GPD to the proposed modular classroom building to the site located at 1103 E Tacoma Street. LCA has ample capacity to provide water service to this development and the service is presently available in the adjacent streets.

Tapping fees, connection fees, and meter fees are based upon the City of Allentown's ordinances and LCA's schedule of rate fees. Any abandoned lines must be properly capped.

Water service is conditioned upon the following:

1. LCA approval of the site, plumbing and fire protection system plans.
2. Developer obtaining any road opening permits from the municipality and/or PA-DOT to construct the water mains and/or services.
3. Developer executing a Developer's Water System Agreement or a Construction Permit with LCA for construction of the water mains and/or services.
4. Developer installation of water mains and/or services in accordance with the approved plans and applicable LCA policies and regulations, including the current General Specifications for Water System Construction.
5. Developer compliance with the terms and conditions of LCA's Rules and Regulations for Water Service, including completion of an Application for Water Service and payment of all applicable fees. Tapping fees shall be paid to LCA prior to building permits being provided by the City.

Sincerely,

A handwritten signature in black ink that reads "Jacob Hunsicker". The signature is written in a cursive, slightly slanted style.

Jacob Hunsicker
Capital Works Project Specialist

cc: Gina Bongiovanni – Barry Isett & Associates, Inc.
Brandon Jones - COA
Jesus Sadiua – COA
Jedariah Bortz – COA
Melissa Velez – COA
Brian Hite – COA
Paul Bogart – COA

7.4 Location Map



Project Site

7.5 PNDI Receipt

1. PROJECT INFORMATION

Project Name: **Allentown School District Sonia Sotomayor Dual Language Immersion Academy - Modular Building**

Date of Review: **1/14/2026 12:02:57 PM**

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

Project Area: **6.21 acres**

County(s): **Lehigh**

Township/Municipality(s): **Allentown City**

ZIP Code:

Quadrangle Name(s): **CATASAUQUA**

Watersheds HUC 8: **Lehigh**

Watersheds HUC 12: **Lehigh River-Delaware River**

Decimal Degrees: **40.628975, -75.425793**

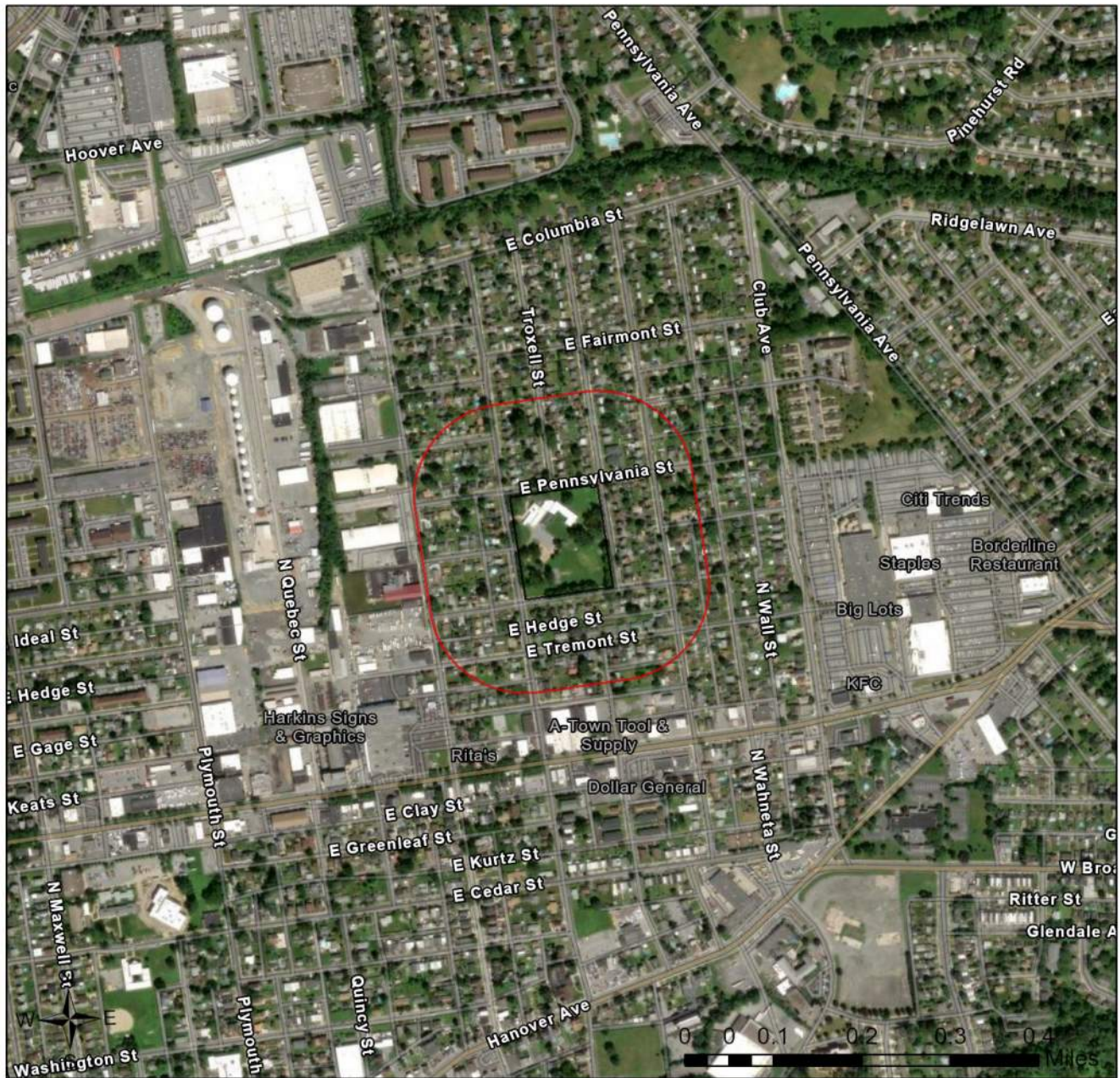
Degrees Minutes Seconds: **40° 37' 44.3100" N, 75° 25' 32.8542" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	Conservation Measure	No Further Review Required, See Agency Comments
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	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.

Allentown School District Sonia Sotomayor Dual Language Immersion Academy - Modul

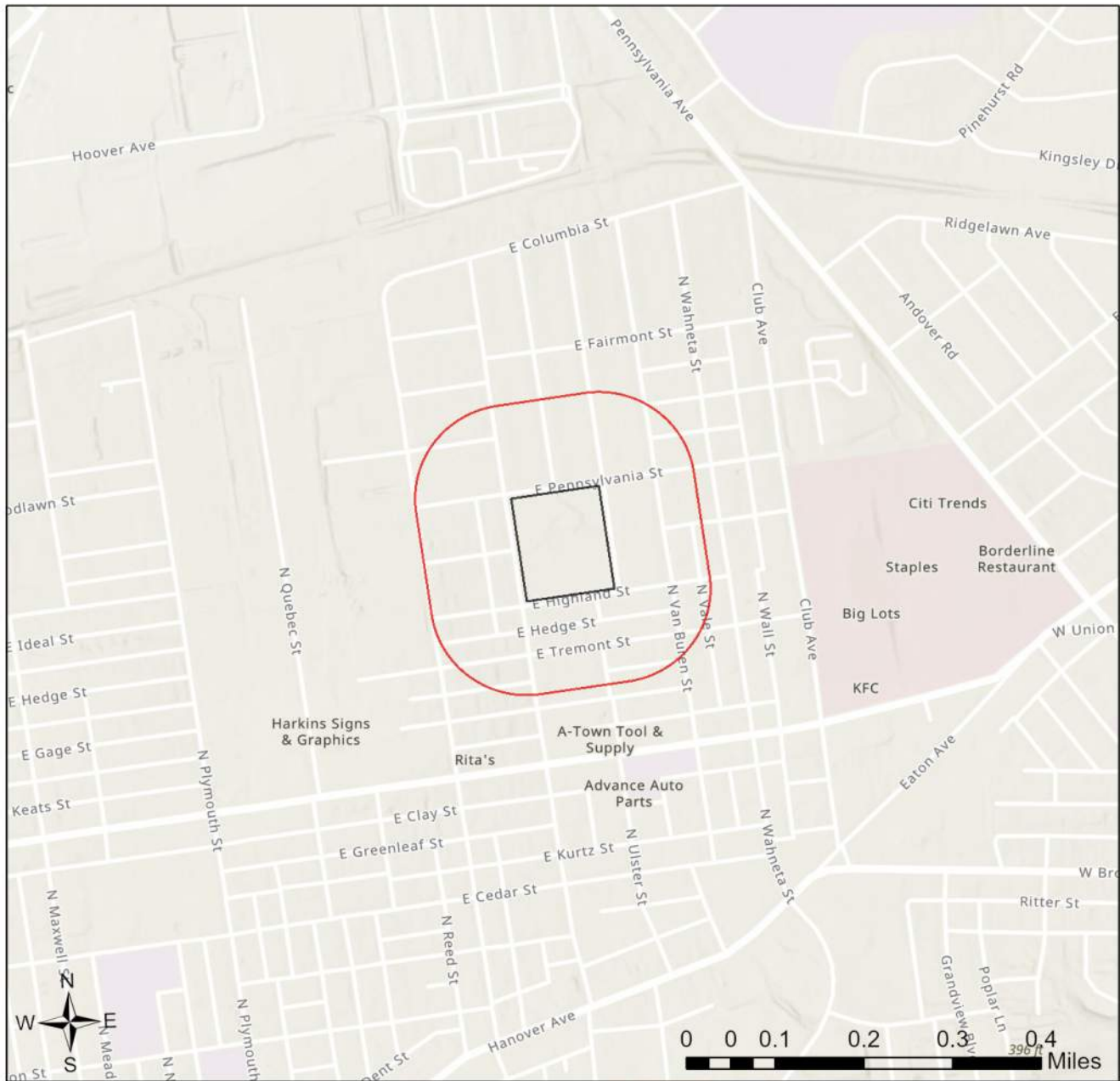




-  Buffered Project Boundary
-  Project Boundary



Sources: Esri, Vantor, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap, and the GIS user community

Allentown School District Sonia Sotomayor Dual Language Immersion Academy - Modul



-  Buffered Project Boundary
-  Project Boundary



Sources: Esri, Vantor, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap, and the GIS user community

RESPONSE TO QUESTION(S) ASKED

Q1: 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

Q2: 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

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

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:

Conservation Measure: Potential impacts to state and federally listed species which are under the jurisdiction of both the Pennsylvania Game Commission (PGC) and the U.S. Fish and Wildlife Service may occur as a result of this project. As a result, the PGC defers comments on potential impacts to federally listed species to the U.S. Fish and Wildlife Service. No further coordination with the Pennsylvania Game Commission is required at this time.

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:

Information Request: Your project is within the range of the federally listed northern long-eared bat. Enter project information into IPaC (<http://ecos.fws.gov/ipac/>). Follow the step-by-step process to review this project's potential effect on federally listed species. For step-by-step instructions, please see our Project Review Page (<https://www.fws.gov/office/pennsylvania-ecological-services/project-revi...>)

Information Request: Your project is within the range of the federally listed Indiana bat. Enter project information into IPaC (<http://ecos.fws.gov/ipac/>). Follow the step-by-step process to review this project's potential effect on federally listed species. For step-by-step instructions, please see our Project Review Page (<https://www.fws.gov/office/pennsylvania-ecological-services/project-revi...>)

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 submit their project using [IPaC](#), following the [USFWS Project Submission](#) Instructions. USFWS will not accept or review project materials uploaded via the Conservation Explorer.

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 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: Gina Bongiovanni
Company/Business Name: Barry Isett & Associates
Address: 5420 Crackersport Road
City, State, Zip: Allentown, PA, 18104
Phone: (610) 723-7702 Fax: ()
Email: gbongiovanni@barryisett.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

1/14/2026

date



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:

01/13/2026 19:51:24 UTC

Project code: 2026-0035862

Project Name: Allentown School District Sonia Sotomayor Dual Language Immersion Academy
- Modular Building

Federal Nexus: no

Federal Action Agency (if applicable):

Subject: Technical assistance for 'Allentown School District Sonia Sotomayor Dual Language Immersion Academy - Modular Building'

Dear Gina Bongiovanni:

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 January 13, 2026, for “Allentown School District Sonia Sotomayor Dual Language Immersion Academy - Modular Building” (here forward, Project). This project has been assigned Project Code 2026-0035862 and all future correspondence should clearly reference this number.

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 the 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 Northeast 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.**

To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative effect(s)), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17). Under Section 7 of the ESA, if a federal action agency

makes a no effect determination, no further consultation with, or concurrence from, the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required (except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect (NLAA)" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13]).

The IPaC results indicated the following species is (are) potentially present in your project area and, based on your responses to the Service's Northeast DKey, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Indiana Bat (<i>Myotis sodalis</i>)	Endangered	NLAA
Northeastern Bulrush (<i>Scirpus ancistrochaetus</i>)	Endangered	No effect

Conclusion

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 species identified above. 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 consultation with the Service should take place before project implements any changes which are final or commits additional resources.

Other Species and Critical Habitat that May be Present in the Action Area

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and are not covered by this conclusion:

- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Northern Long-eared Bat *Myotis septentrionalis* Endangered

Please Note: If the Action may impact bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act (BGEPA) (54 Stat. 250, as amended, 16 U.S.C. 668a-d) by the prospective permittee may be required. Please contact the Migratory Birds Permit Office, (413) 253-8643, or PermitsR5MB@fws.gov, with any questions regarding potential impacts to Eagles.

If you have any questions regarding this letter or need further assistance, please contact the Pennsylvania Ecological Services Field Office and reference the Project Code associated with this Project.



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:

01/14/2026 16:45:08 UTC

Project code: 2026-0035862

Project Name: Allentown School District Sonia Sotomayor Dual Language Immersion Academy
- Modular Building

Federal Nexus: no

Federal Action Agency (if applicable):

Subject: Technical assistance for 'Allentown School District Sonia Sotomayor Dual Language Immersion Academy - Modular Building'

Dear Gina Bongiovanni:

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 January 14, 2026, for 'Allentown School District Sonia Sotomayor Dual Language Immersion Academy - Modular Building' (here forward, Project). This project has been assigned Project Code 2026-0035862 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements are not 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.**

Determination for the Northern Long-Eared Bat and Tricolored Bat

Based on your IPaC submission and a standing analysis completed by the Service, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Northern Long-eared Bat (<i>Myotis septentrionalis</i>)	Endangered	May affect

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 species listed above.

Conclusion

Further coordination with the Service is voluntary for those species with a determination of “May Affect.” A “May Affect” determination in this key indicates that the project, as entered, is not consistent with the questions in the key. Not all projects that reach a “May Affect” determination are anticipated to result in adverse impacts to listed species. Through the technical assistance process, the Service might be able to provide information that either indicates incidental take is not reasonably certain to occur, or the Service might be able to provide recommendations that enable the project to be conducted in a way that avoids the likelihood of incidentally taking listed bats. Please contact our Pennsylvania Ecological Services Field Office for more information. The Service has developed interim voluntary guidance for non-federal actions involving forest habitat modification that may affect the northern long-eared bat. Review the guidance posted here for more information for NLEB: <https://www.fws.gov/species/northern-long-eared-bat-myotis-septentrionalis> and TCB: <https://www.fws.gov/species/tricolored-bat-perimyotis-subflavus>

7.6 PHMC Response



February 2, 2026

Sent Via PA-SHARE

RE: ER Project # 2026PR00432.001, Allentown School District Sonia Sotomayor Dual Immersion Academy Modular Building, Department of Environmental Protection, Allentown City, Lehigh 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.

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 Elizabeth Williams at elizabethw@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 John Gardosik at jgardosik@pa.gov.

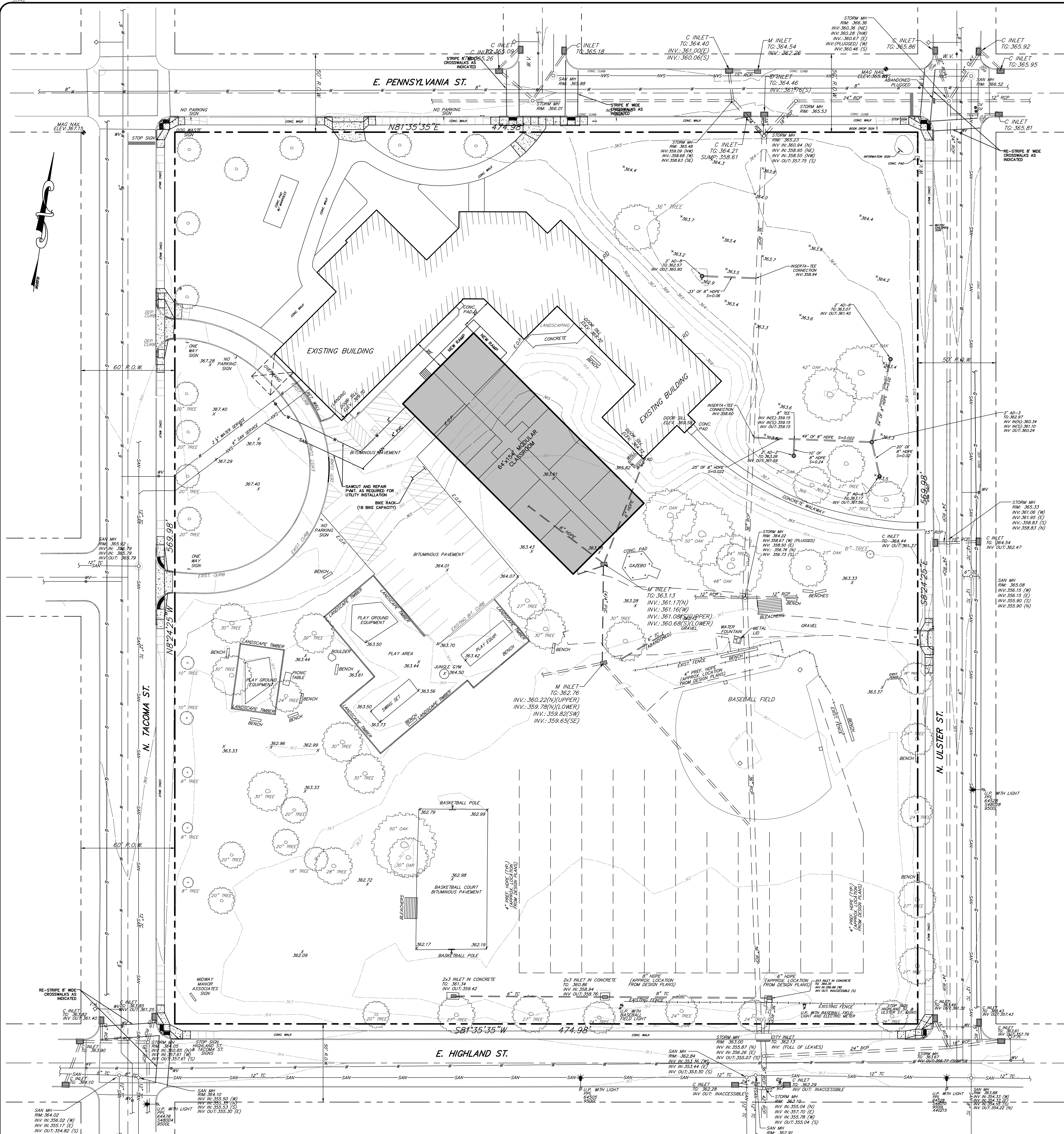
Sincerely,

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

7.7 Plot Plan



STREET TREE PERMITS:
 ALL PERMITS SHALL BE OBTAINED FROM THE CITY OF ALLENTOWN PARKS DEPARTMENT FOR ALL STREET TREE PLANTINGS.

STREET TREE NOTE:
 STREET TREES AS REQUIRED BY THE CITY OF ALLENTOWN SHADE TREE ORDINANCE SUBJECT TO ALL RULES AND REGULATIONS CONCERNING PLANTING, PROTECTION, MAINTENANCE, REPLACEMENT AND PRESERVATION. THE LOCATION & SPECIES OF STREET TREES SHALL BE APPROVED BY THE SHADE TREE COMMISSION.

STATEMENT OF INTENT:
 THIS PLAN PROPOSES THE REMOVAL OF 1 MODULAR BUILDING AND 1 MAINTENANCE BUILDING AND THE PLACEMENT OF 1 BLDG. S.F. MODULAR CLASSROOM. IN ADDITION, PERIMETER ADA RAMPS AND DRIVEWAY CROSSOVERS WILL BE RECONSTRUCTED.

SANITARY SEWER/WATER NOTE:
 THERE WILL BE NO INCREASE IN EMPLOYEES WITH THIS PROJECT AND AS SUCH THERE WILL BE NO INCREASE IN SANITARY SEWER OR WATER USAGE AT THE SITE.

SITE IMPERVIOUS COVER CHART

EXISTING CONDITION:
IMPERVIOUS: 54,570 S.F.
PERVIOUS: 216,150 S.F.
PROPOSED CONDITION:
IMPERVIOUS: 63,025 S.F.
PERVIOUS: 208,706 S.F.

SITE DATA

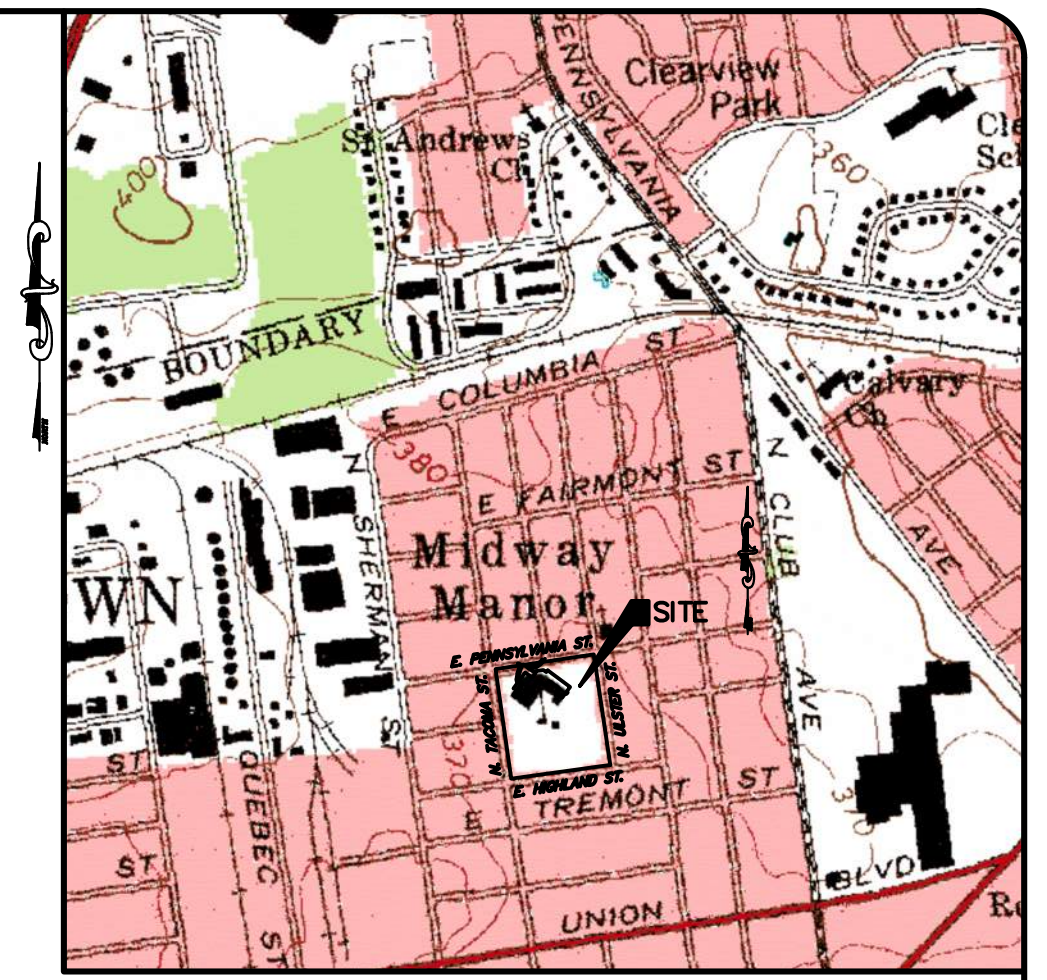
OWNER: ALLENTOWN SCHOOL DISTRICT
 OWNER ADDRESS: 31 S. PENN STREET ALLENTOWN PA 18102
 DISTRICT 3, WARD 15
 DEED REFERENCE: 00000
 PARCEL ID: 84183044226
 OLD PARCEL ID: 02 15 F1054C 005 001
 TOTAL AREA: 8.22 AC
 NUMBER OF LOTS: 1
 SEWER: PUBLIC
 WATER: PUBLIC
 DATUM: USGS

ZONING DATA

ZONING DISTRICT: P2 - CIVIC AND INSTITUTIONAL BUILDINGS & INFRASTRUCTURE
 EXISTING/PROPOSED USE: PUBLIC SCHOOL
 LOT WIDTH: 50 FT. MIN.
 BUILDING SETBACKS:
 FRONT: 10 FT. MIN.
 SIDE: 5 FT. MIN.
 SPACE BETWEEN BLDG: 12 FT. MIN.
 REAR: 10 FT. MIN.
 BUILDING COVERAGE: 90% MAX.
 EXISTING BLDG. COVERAGE: 7.7%
 PROPOSED BLDG. COVERAGE: 10.5%
 BUILDING HEIGHT: 3 STORIES MAX.(1 PROPOSED)
 GROUND STORY HEIGHT: 10 FT. MIN / 24 FT. MAX.
 ALL OTHER STORY HEIGHT: 9 FT. MIN. / 14 FT. MAX.
 ROOF TYPES: ANY

ZONING NONCONFORMANCE DETERMINATION
 BY LETTER DATED 1/21/2016, THE ZONING SUPERVISOR DETERMINED THE EXISTING PARKING LOT IS NONCONFORMING WITH ARTICLES 660-77, 660-79(C)(2), 660-81(A), AND 660-81(C).
 AS THE PROPOSED IMPROVEMENTS ARE ENTIRELY OUTSIDE THE PARKING LOT, THE DETERMINATION LETTER CONCLUDES THE PARKING LOT MAY BE LEFT "AS-IS".

SIDEWALK REPAIR NOTE:
 COORDINATE CITY INSPECTION & REPAIR DAMAGED OR NON-ADA-COMPLIANT SIDEWALKS.
 SEE DIVISION 01 UNIT PRICE & ALLOWANCE SECTIONS.

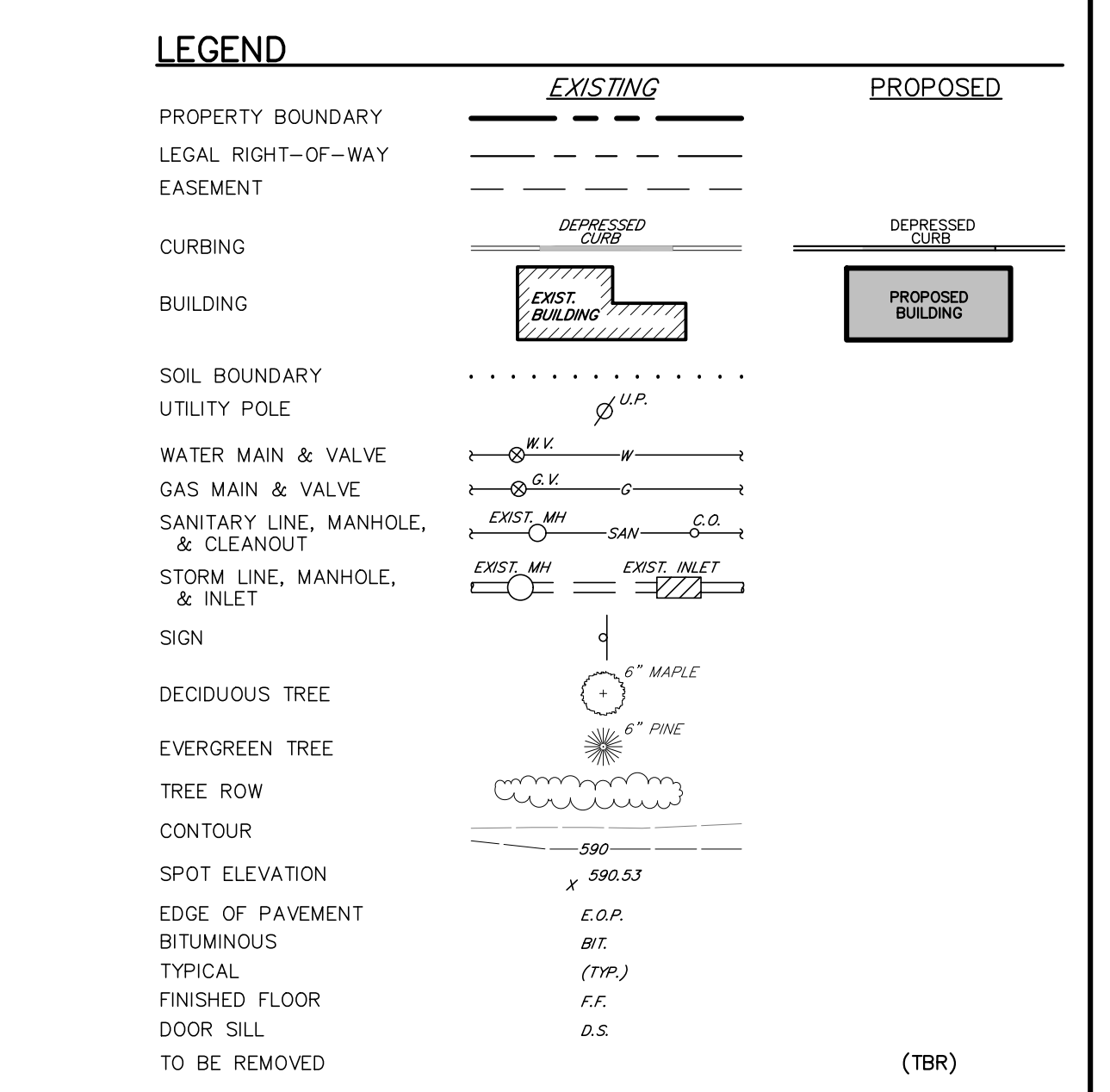


BASE PLAN NOTES:

- DATE OF SURVEY: MAY 24, 2019 & JANUARY 14 & 20, 2026
- SURVEY PLAN WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE COMMITMENT OR SUMMARY BASED ON A SEARCH OF THE PUBLIC RECORDS OF LEHIGH COUNTY, PENNSYLVANIA.

GENERAL NOTES:

- CONTRACTOR SHALL NOTIFY THE PENNSYLVANIA ONE-CALL SYSTEM NO LESS THAN THREE DAYS AND NO GREATER THAN TEN DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THESE DRAWINGS HAVE BEEN BASED ON THE BEST AVAILABLE INFORMATION. THE LOCATION OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE FROM FIELD OBSERVATION. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF THE UNDERGROUND UTILITIES AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT. CONTRACTORS SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO ANY FUTURE CONSTRUCTION IN ACCORDANCE WITH PA ACT 187.
- IF CONFLICTS WITH THIS PLAN ARE FOUND THE CONTRACTORS SHALL NOTIFY THE OWNER AND DESIGN ENGINEER FOR INSTRUCTION BEFORE PROCEEDING WITH WORK.
- ALL PERMITS MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND ADDITIONAL INFORMATION/DETAILS.
- ALL SIGNS AND PAVEMENT MARKINGS ARE TO COMPLY WITH THE LATEST EDITION OF THE MUTCD. SIGNAGE SHALL BE INSTALLED PER PENNDOT PUB. 111, LATEST EDITION.
- LANDINGS AT ALL DOORS AND AT THE TOP/BOTTOM OF ALL STAIRS AND RAMPS SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES.
- WITHIN CLEAR SIGHT TRIANGLES, NO VISION OBSTRUCTING OBJECT SHALL BE PERMITTED WHICH EXCEEDS A HEIGHT OF 30" ABOVE THE ELEVATION OF THE INTERSECTING DRIVEWAY AND STREET.
- CONTRACTOR SHALL COORDINATE ALL WORK PERFORMED WITH THE APPROPRIATE UTILITY COMPANY OR AUTHORITY AND WITH ALL UTILITIES TO ENSURE ALL UTILITY SERVICES SERVE ALL UTILITY CUSTOMERS FOR CONTINUOUS FACILITY OPERATIONS OF ALL UTILITY CUSTOMERS. CONTRACTOR SHALL REWORK ALL UTILITY SERVICES INCLUDING PROVIDING TEMPORARY UTILITY SERVICES UNTIL PERMANENT UTILITY SERVICES ARE PROVIDED.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO PUBLIC/PRIVATE PROPERTY AS A RESULT OF CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- CONTRACTOR SHALL ENSURE THE SAFETY OF THE GENERAL PUBLIC, EXISTING STRUCTURES, AND OTHER PUBLIC AND PRIVATE PROPERTY.
- SITE SAFETY AND MAINTENANCE IS THE RESPONSIBILITY OF THE CONTRACTOR. THE PROPERTY OWNER IS NOT RESPONSIBLE.
- CONTRACTOR IS RESPONSIBLE TO KEEP EXISTING ROADS, PARKING AREAS AND LOCAL ROADS FREE OF CONSTRUCTION MATERIALS. ANY DIRT OR DEBRIS TRACKED ON TO SUCH AREAS WILL BE IMMEDIATELY REMOVED.
- MAINTENANCE & PROTECTION OF TRAFFIC IS TO BE IN ACCORDANCE WITH PENNDOT PUBLICATION 213. CONTRACTOR SHALL PROVIDE TRAINED AND EQUIPPED FLAG PERSONS TO REGULATE TRAFFIC WHEN CONSTRUCTION OPERATIONS OR TRAFFIC ENDOACH ON PUBLIC TRAFFIC LANES.
- CONSTRUCTION CREWS, VEHICLES AND ACTIVITIES SHALL NOT INTERFERE WITH NORMAL OPERATIONS OF THE FACILITY. DESIGNATED PARKING AREAS SHALL BE ESTABLISHED AND USED FOR ALL CONSTRUCTION PERSONNEL.
- CONSTRUCTION VEHICLES, MATERIALS OR ACTIVITIES SHALL NOT INTERFERE WITH PUBLIC ACCESS EXCEPT WHERE SHOWN ON THE PLANS. CONTROL VEHICULAR PARKING TO PREVENT INTERFERENCE WITH PUBLIC TRAFFIC AND PARKING, ACCESS BY EMERGENCY VEHICLES, AND OWNER'S OPERATIONS.
- PREVENT PARKING ON OR ADJACENT TO ACCESS ROADS OR IN NON-DESIGNATED AREAS.
- PROTECT TREES, PLANT GROWTH, AND FEATURES DESIGNATED TO REMAIN, AS FINAL LANDSCAPING.
- THE CONTRACTORS WORKING ON THIS PROJECT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT ARE PERFORMED IN ACCORDANCE WITH ALL O.S.H.A. (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) STANDARDS AND REQUIREMENTS.
- IN ALL CASES, WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS ON THE PROJECT SITE. DESIGN ENGINEER MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN IN THESE DRAWINGS.
- ANY PROPERTY OR BUSINESS IDENTIFICATION SIGNS (FREESTANDING OR BUILDING MOUNTED) SHALL COMPLY WITH MUNICIPAL SIGN REQUIREMENTS AND OWNER IS REQUIRED TO OBTAIN A PERMIT PRIOR TO INSTALLATION.
- A KNOX BOX SHALL BE PROVIDED FOR THE PROPOSED BUILDING IF REQUIRED BY THE MUNICIPALITY. LOCATION OF THE KNOX BOX SHALL BE APPROVED BY THE MUNICIPALITY AND OR FIRE CODE OFFICIAL.
- ALL SIDEWALK REPAIRS SHALL BE DONE UNDER THE SUPERVISION OF A PROFESSIONAL GEOLOGIST OR GEO-TECHNICAL ENGINEER.
- DESIGN PLANS/CALCULATIONS SIGNED/SEALED BY A PROFESSIONAL ENGINEER SHALL BE REQUIRED FOR RETAINING WALLS AND SHALL BE PROVIDED TO THE MUNICIPALITY PRIOR TO CONSTRUCTION AND AS PART OF A PERMIT APPLICATION.
- FENCING SHALL BE INSTALLED PER MANUFACTURER'S GUIDELINES.



PLAN INDEX

PLAN DESIGNATION	PLAN TITLE	PLAN NO.	DATE	LAST REV.
*SP-1	SITE PLAN	1 of 9	1/23/26	
EF-1	EXISTING FEATURES & DEMOLITION PLAN	2 of 9	1/23/26	
GP-1	ADA RAMP GRADING DETAILS	3 of 9	1/23/26	
GP-2	DRIVEWAY CROSSOVER GRADING DETAILS	4 of 9	1/23/26	
LP-1	LANDSCAPING PLAN	5 of 9	1/23/26	
DE-1	CONSTRUCTION DETAILS	6 of 9	1/23/26	
DE-2	MODULAR BUILDING ELEVATIONS	7 of 9	1/23/26	
ES-1	EROSION & SEDIMENT CONTROL PLAN	8 of 9	1/23/26	
ESD-1	EROSION & SEDIMENT CONTROL DETAILS	9 of 9	1/23/26	

* BENNET'S PLANS TO BE RECORDED

USERS (OWNERS, CONTRACTORS) OF THIS PLAN ARE ADVISED THAT ALL PLANS SHOWN IN THE ABOVE REFERENCED PLAN INDEX SHALL BE UTILIZED WHEN PREPARING ESTIMATES, MANUFACTURING STRUCTURES, AND PERFORMING CONSTRUCTION. CERTAIN PLANS MAY HAVE FEATURES (EXISTING OR PROPOSED) WHICH MAY BE HIDDEN FROM VIEW TO PROVIDE CLARITY FOR THAT PARTICULAR PLAN. ALL DRAWINGS WITHIN THIS PLAN SET SHALL BE REVIEWED AND UTILIZED.

PLANNING COMMISSION APPROVAL
 BY THE AUTHORITY VESTED IN ME BY THE CITY PLANNING COMMISSION, I HEREBY CERTIFY THAT THIS SUBDIVISION MEETS ITS REQUIREMENTS.

DIRECTOR _____ DATE _____
 APPROVED _____ DATE _____
 CITY ENGINEER _____

CERTIFICATION OF LEHIGH VALLEY PLANNING COMMISSION
 REVIEWED BY THE LEHIGH VALLEY PLANNING COMMISSION.

REVIEWED BY: _____ DATE: _____
 LPIC PLANNER

PROOF OF RECORDING
 PLAN RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS OF LEHIGH COUNTY, PENNSYLVANIA, MAP DOCUMENT IDENTIFICATION NUMBER _____, ON THE DAY OF _____, 20____.

WITNESS MY HAND AND SEAL OF OFFICE THIS _____ DAY OF _____, 20____.

SEE DWGS. GP-1 & GP-2 FOR ADA RAMP & DRIVEWAY CROSSOVER GRADING DETAILS

SURVEYOR'S CERTIFICATION
 I HEREBY CERTIFY THAT THIS PLAN HAS BEEN COMPILED FROM A SURVEY ACTUALLY MADE ON THE GROUND THAT IT IS CORRECT AND AT THE TIME THE SURVEY WAS MADE THERE WERE NO EASEMENTS OR ENCROACHMENTS ACROSS PROPERTY LINE OTHER THAN THOSE SHOWN.

1/23/2026
 CODY ALAN MCGUIRE
 PROFESSIONAL SURVEYOR
 STATE OF PENNSYLVANIA
 No. 120557
 CODY ALAN MCGUIRE

CERTIFICATION OF OWNER OF RECORD AND DEDICATION
 I, (WE) THE UNDERSIGNED, BEING THE OWNER(S) IN PEACEFUL POSSESSION OF THE LAND HEREIN PLATED AND BEING THAT THERE ARE NO SUITS PENDING AFFECTING THE TITLE OF THE SAME, DO HEREBY ADOPT THIS PLAN OF PROPERTY SITUATED IN THE CITY OF ALLENTOWN, LEHIGH COUNTY, PENNSYLVANIA, (AND DEDICATED TO THE USE OF THE PUBLIC FOREVER ALL LAND FOR PUBLIC PURPOSES SHOWN HEREON), THE FOREGOING ADOPTION (AND DEDICATION) IS MADE BY ME (US) WITH THE FULL UNDERSTANDING AND AGREEMENT THAT THE APPROVAL BY THE ALLENTOWN CITY PLANNING COMMISSION, IF HERETO ATTACHED, WILL BECOME NULL AND VOID UNLESS THE PLAN IS RECORDED IN THE RECORDER OF DEEDS OFFICE OF LEHIGH COUNTY, PENNSYLVANIA, WITHIN NINETY (90) DAYS OF THE DATE OF SAID APPROVAL.

ALLENTOWN SCHOOL DISTRICT
 DR. ROBERT W. WHARTNEY, E.D.
 CHIEF OPERATIONS OFFICER

NOTARIZATION
 SWORN AND SUBSCRIBED BEFORE ME THIS _____ DAY OF _____, A.D. 20____.

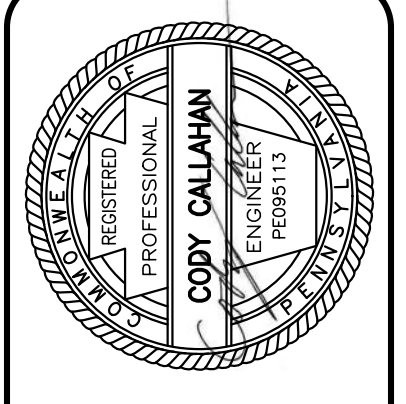
NOTARY PUBLIC
 MY COMMISSION EXPIRES: _____

ENGINEER'S CERTIFICATION
 I HEREBY CERTIFY THAT THE PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE CITY OF ALLENTOWN SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

1/23/2026
 CODY CALLAHAN, P.E.
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF PENNSYLVANIA
 No. PED95113
 CODY CALLAHAN
 ENGINEER
 PED95113

811
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DATE	BY



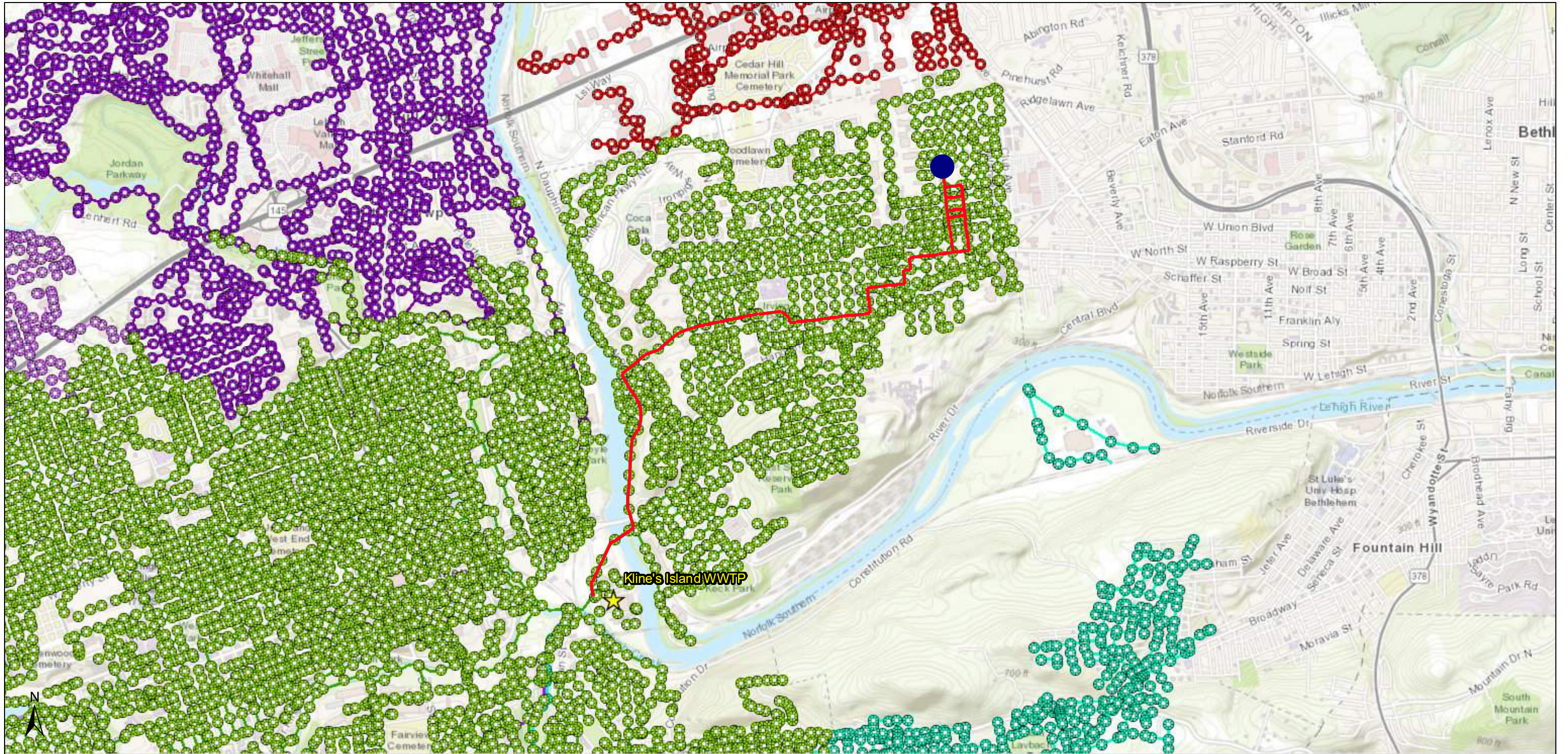
610.398.0904
 baryisett.com
BARRY ISETT & ASSOCIATES
 5420 Crakersport Road
 Allentown, PA 18104
 Mechanical Engineers/Architects

SITE PLAN
 SSDLIA MODULAR BUILDING
 MIDWAY MANOR ELEMENTARY SCHOOL
 ALLENTOWN SCHOOL DISTRICT
 CITY OF ALLENTOWN, LEHIGH COUNTY, PA

DATE: 1/23/2026 DSGN: CDC
 SCALE: 1"=30' CHK: BEK
 DRAWN: JAZ APPRD: CDC
 JOB: 1040724.004 PMGR: BEK
 COPYRIGHT 2026
 SHEET: 1 OF 9
SP-1

7.8 Flow Path Diagram

LCA Flow Map - 1103 N Tacoma St



1/16/2026, 1:14:14 PM

1:36,112

- | | | | | | |
|--|--------------------|--|--------------------------|--|--------------------------------|
| | Allentown Customer | | Salisbury Manholes | | Hanover Sanitary Mains |
| | COA Manholes | | South Whitehall Manholes | | Salisbury Sanitary Mains |
| | CWSA Manholes | | COA Sanitary Mains | | South Whitehall Sanitary Mains |
| | Hanover Manholes | | CWSA Sanitary Mains | | Suburban Force Mains |

Sources: Esri, HERE, Garmin, Intermap, inGEBCO, USGS, FAO, NPS, NRCAN, GeoBase, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

