City of Pittsburgh

Sewer Facilities Planning Module Questionnaire

1) What was the previous permitted use for this property?

- Office Building

2) What is the proposed use for the property?

- Upper 7 floors of the existing building will be converted into apartment units, while the first floor of street level will be retail space and a portion of the basement level will be used as an office for managing the building.

3) How is green stormwater mitigation being integrated into the proposed project?

- The building footprint envelops the entire property, so there is no disturbance or increase in impervious area. Thus, the project will not be required to employ any green stormwater mitigation.

4) Will the development result in a net positive or net negative change in stormwater flow?

- Neither, the project will result in a status-quo scenario. However, the storm and sanitary sewers within the building and laterals leaving the building will be separated to the sewer main.

Project Narrative

The site is located at 800 Penn Avenue, Pittsburgh 15222 *(actual and postal city)*. The project will involve the conversion of the existing 8 story office building plus basement level into apartment units, with retail space at the street level. Each of the 7 floors dedicated to apartments will have six one-bedroom units. Thus, the building will have 42 one-bedroom apartment units plus 2,552 sq. ft. of retail space and a small building management office to be located in basement level of the building. All storm and sanitary lines will be separated, and the proposed laterals will be installed at a minimum 1% grade. The storm lateral will be an 8" SDR 26 pipe and the existing 6" sanitary lateral will remain. Sewage from the building will connect into the existing 24" PWSA combination sewer in Exchange Way, which flows into the 24" combination sewer in 9th Street. This sewer eventually flows to ALCOSAN's Allegheny River Interceptor, which ultimately flows to the ALCOSAN Treatment plant at Woods Run. After credit for the existing use, the project will generate 2,012 GPD or 5.03 EDU's of additional sanitary flow.

Planning Module Calculation Sheet

800 Penn Avenue Apartments
2nd Ward, City of Pittsburgh

Project will involve the conversion of an existing 8 story office building plus basement level into apartments with a retail space at street level. There will be a small office in the basement which will serve as building management. Since the existing building is air conditioned, the new verses the old will cancel each other out.

Apartment Units

Existing 8 story plus basement building being converted into 7 floors of apartment space with the street level being used as retail space

6 One Bedroom Apartments x 150 GPD = 900 GPD per floor
900 GPD x 7 Floors = 6,300 GPD

Retail Space

2,552 Sq. Ft. x 0.075 = 192 GPD

Building Management Office

3 Employees x 10 GPD = 30 GPD

Slop Sink

One x 200 GPD = 200 GPD

So

6,300 + 192 + 30 + 200 = 6,722 GPD

Credit

The interior space of the office building is 43,578 sq. ft. Using 150 sq. ft. per office worker

43,578 Sq. Ft. / 150 Sq. Ft. = 291 Office Workers
291 Office Workers x 10 GPD = 2,910 GPD

Existing Slop Sinks
One on every floor including the basement level
9 Floors *(including basement)* x 200 GPD = 1,800 GPD

So
2,910 GPD + 1,800 GPD = 4,710 GPD *(Credit)*

So
6,722 GPD – 4,710 GPD = 2,012 GPD

Thus

2,012 GPD / 400 GPD = 5.03 EDU's

3800-FM-BPNPSM0353 Rev. 2/2015
Form

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Code No.

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

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 800 Penn Avenue Apartments

2. Brief Project Description The existing office building will be converted into 7 floors of apartments with a street level retail space. After credit for the existing office use, the project will generate 2,012 GPD or 5.03 EDU's.

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

Municipality Name	County	City	Boro	Twp
City of Pittsburgh, 2nd Ward	Allegheny	☒	☐	☐

Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
King	Barry		Mr.	Interim Acting Director
Additional Individual Last Name	**First Name**	**MI**	**Suffix**	**Title**
Smuts	Matthew		Mr.	Project Manager

Municipality Mailing Address Line 1	Mailing Address Line 2
Pittsburgh Water and Sewer Authority	Penn Liberty Plaza 1 1200 Penn Avenue

Address Last Line -- City	State	ZIP+4
Pittsburgh	Pa	15222

Area Code + Phone + Ext.	FAX (optional)	Email (optional)
412-255-8800 Ext. 2663		msmuts@pgh2o.com

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name
800 Penn Avenue Apartments

Site Location Line 1	Site Location Line 2
At southeast corner of the intersection of Penn Avenue and Eighth Street	

Site Location Last Line -- City		State	ZIP+4	Latitude	Longitude
Pittsburgh	(2nd Ward)	Pa	15222	40 26 36.03	79 59 56.17

Detailed Written Directions to Site Follow Route 28 toward City, take Ramp left toward North Shore, then turn left onto Anderson Street, keep left onto 9th Street Bridge, keep straight onto 9th Street, then turn right onto Penn Avenue, 800 Penn Avenue will be on the left side at the corner of Eighth Street.

Description of Site Flat Urban site- existing 8 story masony building surrounded by brick sidewalk and asphalt streets

Site Contact (Developer/Owner)

Last Name	First Name	MI	Suffix	Phone	Ext.
Fellheimer	Ethan	S	Mr.	610-420-0442	

Site Contact Title	Site Contact Firm (if none, leave blank)
800-209, LLC	

FAX	Email
	Ethan@fellheimer.net

Mailing Address Line 1	Mailing Address Line 2
800-209, LLC	50 South 16th Street, Suite 3401

Mailing Address Last Line -- City	State	ZIP+4
Philadelphia	Pa	19102

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

Last Name	First Name	MI	Suffix
Matt	Robert	W	Mr.

Title	Consulting Firm Name
Project Manager	Gateway Engineers, Inc.

Mailing Address Line 1	Mailing Address Line 2
Gateway Engineers, Inc.	100 McMorris Road

Address Last Line – City	State	ZIP+4	Country
Pittsburgh	Pa	15205	USA

Email	Area Code + Phone	Ext.	Area Code + FAX
bmatt@gatewayengineers.com	412-921-4030	127	412-921-9960

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: Pittsburgh Water and Sewer 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 _____

b. Answer questions below on collection system

Number of EDU's and proposed connections to be served by collection system. EDU's 5.03

Connections 2

Name of:

existing collection or conveyance system Exchange Way- 24" combination sewer

owner PWSA

existing interceptor Allegheny River

owner ALCOSAN

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 ALCOSAN

NPDES Permit Number for existing facility PA0025984

Clean Streams Law Permit Number _____

Location of discharge point for a new facility. Latitude 402832 Longitude 800244

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

As an authorized representative of the permittee, I confirm that the ALCOSAN (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 ALCOSAN

Name of Responsible Agent Michael D. Lichte, P.E.

Agent Signature _____ Date 1/11/19

(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

YES	NO	
☒	☐	Sufficient documentation is attached to confirm that this project is consistent with DEP Technical Guidance 012-0700-001 *Implementation of the PA State History Code* (available online at the DEP website at www.dep.state.pa.us, select "subject" then select "technical guidance"). As a minimum this includes copies of the completed Cultural Resources Notice

(CRN), a return receipt for its submission to the PHMC and the PHMC review letter.

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 completed "Pennsylvania Natural Diversity Inventory (PNDI) Project Planning & Environmental Review Form," (PNDI Form) available at www.naturalheritage.state.pa.us , and all required supporting documentation is attached. I request DEP staff to complete the required PNDI search for my project. I realize that my planning module will be considered incomplete upon submission to the Department and that the DEP review will not begin, and that processing of my planning module will be delayed, until a "PNDI Project Environmental Review Receipt" and all supporting documentation from jurisdictional agencies (when necessary) is/are received by DEP.

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 permitee. The permitee 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 2012 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

   When providing "treatment facilties" 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	6965000	24378000	42000	147000	44012	154042
Conveyance						
Treatment						

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. ☐ ☒ 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 Pittsburgh Water & Sewer Authority

   Name of Responsible Agent Barry King

   Agent Signature _____ Date 12/18/18

☒ 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 2012 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

   When providing "treatment facilties" 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	6965000	24378000	42000	147000	44012	154042
Conveyance		2.08mgd	.012	.012	.014	.014
Treatment		250mgd	194.8mgd	250mgd	194.8	250mgd

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.	☐	☒	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 Pittsburgh Water & Sewer Authority

Name of Responsible Agent Barry King

Agent Signature _____ Date 12/18/18

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

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Michael D. Lichte, P.E.

Agent Signature

Date 1/11/19

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 ALCOSAN

Name of Responsible Agent Michael D. Lichte, P.E.

Agent Signature

Date 1/11/19

☐ 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)

☐ 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 puchase 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.

Robert W. Matt, Jr.	[signature]
Name (Print)	Signature
Project Manager	NOV. 5, 2018
Title	Date
100 McMorris Road, Pittsburgh, Pa 15205	412-921-4030 Ext. 127
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 $ 251.50 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.

   #_5.03____ Lots (or EDUs) X $50.00 = $ ___251.50_____

   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:

   #_____ Lots (or EDUs) X $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)

3800-FM-WSFR0362A 9/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

DEP Code

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 existing local municipal planning agency for their comments.

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

Project Name
800 Penn Ave. Apartments

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

1. Date plan received by municipal planning agency. 2-12-19
2. Date review completed by agency. 2-22-19

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

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

SECTION C. AGENCY REVIEW (continued)

Yes	No	
☒	☐	13. Is this proposal consistent with the ordinance? If no, describe the inconsistencies _____
☒	☐	14. Is this plan consistent with the municipal Act 537 Official Sewage Facilities Plan? If no, describe the inconsistencies _____
☐	☒	15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____
☐	☒	16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
☐	☐	If yes, is the proposed waiver consistent with applicable ordinances?

17. Name, title and signature of planning agency staff member completing this section:

Name: Martina Battistone

Title: SENIOR ENVIRONMENTAL PLANNER

Signature: M Battistone

Date: 2-22-19

Name of Municipal Planning Agency: City of Pittsburgh, City Planning

Address 200 Ross St. 4th Floor Pittsburgh, PA 15219

Telephone Number: (412) 255-2516

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 desired, 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 project sponsor.

alcosan allegheny county sanitary authority ™

Members of the Board

Sylvia C. Wilson
Chair Person

Gregory A. Jones
Jack Shea
Rep. Harry Readshaw
John Weinstein
Corey O'Connor
Brenda L. Smith

Arletta Scott Williams
Executive Director

Arthur M. Tamilia, Esq.
Director
Environmental Compliance

William H. Inks, CPA
Director
Finance & Administration

Jan M. Oliver
Director
Regional Conveyance

Douglas A. Jackson, P.E.
Director
Operations & Maintenance

Kimberly N. Kennedy, P.E.
Director
Engineering & Construction

Jeanne K. Clark
Director
Governmental Affairs

Joseph Vallarian
Director
Communications

January 11, 2019

Mr. Robert Matt, Jr.
Gateway Engineers
100 McMorris Road
Pittsburgh, PA 15205-9401

Re: 800 Penn Avenue Apartments, City of Pittsburgh
PA DEP Component 3 Planning Module Submission
ALCOSAN Regulator A-11-00

Dear Mr. Matt,

We have reviewed the Component 3 Planning Module for the referenced project to be located in the City of Pittsburgh. The project will generate a peak flow of 2,012 gpd in the ALCOSAN Allegheny River Interceptor and Woods Run Treatment Plant.

The capacity at the ALCOSAN A-11-00 regulator is 2.08 MGD. The estimated average daily peak dry weather flow is approximately 12,000 GPD. Sufficient dry weather capacity exists for this connection. However, the ALCOSAN Allegheny River Interceptor and the Woods Run Treatment Plant do not have the capacity for the flows generated by the tributary communities during wet weather periods. This limitation will be addressed as ALCOSAN implements its wet weather facilities plan.

ALCOSAN requests that this letter be made part of the planning module submission. The signed Component 3 Planning Module is attached. The sewers in this project are to be designed as separated sanitary and storm sewers. If you have any questions regarding this matter, please contact me at 412-732-8004.

Sincerely,

ALLEGHENY COUNTY SANITARY AUTHORITY

Michael Lichte, P.E.
Manager of Planning

attachment

cc: Tina Dean (w/o attachment)
D. Thornton (w/o attachment)
S. McWilliams (w/o attachment)
Mathew Smuts, PWSA (w/o attachment)
T. Flanagan/PaDEP (w/o attachment)
M. Scheer/ACHD (w/o attachment)

3300 Preble Avenue • Pittsburgh, PA 15233-1092 • ph: 412.766.4810

COUNTY OF ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

February 1, 2019

Robert W. Matt, Jr.
Gateway Engineers
100 McMorris Road
Pittsburgh, PA 15205

RE: SEWAGE FACILITIES PLANNING MODULE
800 PENN AVENUE APARTMENTS
2ND WARD, CITY OF PITTSBURGH

Dear Mr. Matt,

Enclosed is a signed copy of Component 4C, County or Joint County Health Department Review, for the above-referenced development. This Planning Module Component was received on January 29, 2019. The project proposes the following:

Project Description:	800 Penn Avenue Apartments, 2nd Ward, City of Pittsburgh - conversion of existing 8 story building into apartment units. 42 one-bedroom apartment units in all
Sewage Flow:	2012 GPD
Conveyance:	Building to existing 24-inch PWSA combination sewer in Exchange Way to ALCOSAN interceptor along Allegheny River to the ALCOSAN sewage treatment plant.
Sewer's Owner:	PWSA
Name of Sewage Treatment Plant:	ALCOSAN

Please be advised that a permit must be obtained from the Allegheny County Health Department's (ACHD) Plumbing Section prior to commencing any plumbing work for the proposed project. Plumbing work for which an ACHD Plumbing Permit must be obtained includes any plumbing work done on the site and any sewers, which will not be owned and operated by a municipality or a sewer authority. In addition, it should be noted that the approval of this sewage facilities planning module does not include approval of pipe size and/or type. Approval for pipe size and/or type must be obtained by filing a specific plumbing plan with the ACHD's Plumbing Section. If you should have any questions relative to ACHD's plumbing requirements, Ivo Miller, Plumbing Program Manager at 412-578-8393.

The ACHD has no objection to the approval of this project. If you have any questions, please call me at 412-578-8046.

Sincerely,

Michael W. Scheer,
Environmental Health Administrator II
Water Pollution Control & Solid Waste Management

Enclosure

cc: Thomas Flanagan, PA Department of Environmental Protection w/attachment
Ivo Miller, ACHD w/attachment

KAREN HACKER, MD, MPH, DIRECTOR
ALLEGHENY COUNTY HEALTH DEPARTMENT
WATER POLLUTION CONTROL & SOLID WASTE MANAGEMENT
3901 PENN AVENUE • BUILDING 5 • PITTSBURGH, PA 15224-1318
PHONE: 412.578.8040 • FAX: 412.578.8053 • WWW.ACHD.NET

PHAB
Advancing public health performance

3800-FM-WSFR0362C 8/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

DEP Code #

SEWAGE FACILITIES PLANNING MODULE
COMPONENT 4C - COUNTY OR JOINT HEALTH DEPARTMENT 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 county or joint county health department for their comments.

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

Project Name
800 Penn Avenue Apartments

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

1. Date plan received by county or joint-county health department. January 29, 2019

   Agency name Allegheny County Health Department (ACHD)

2. Date review completed by agency February 1, 2019

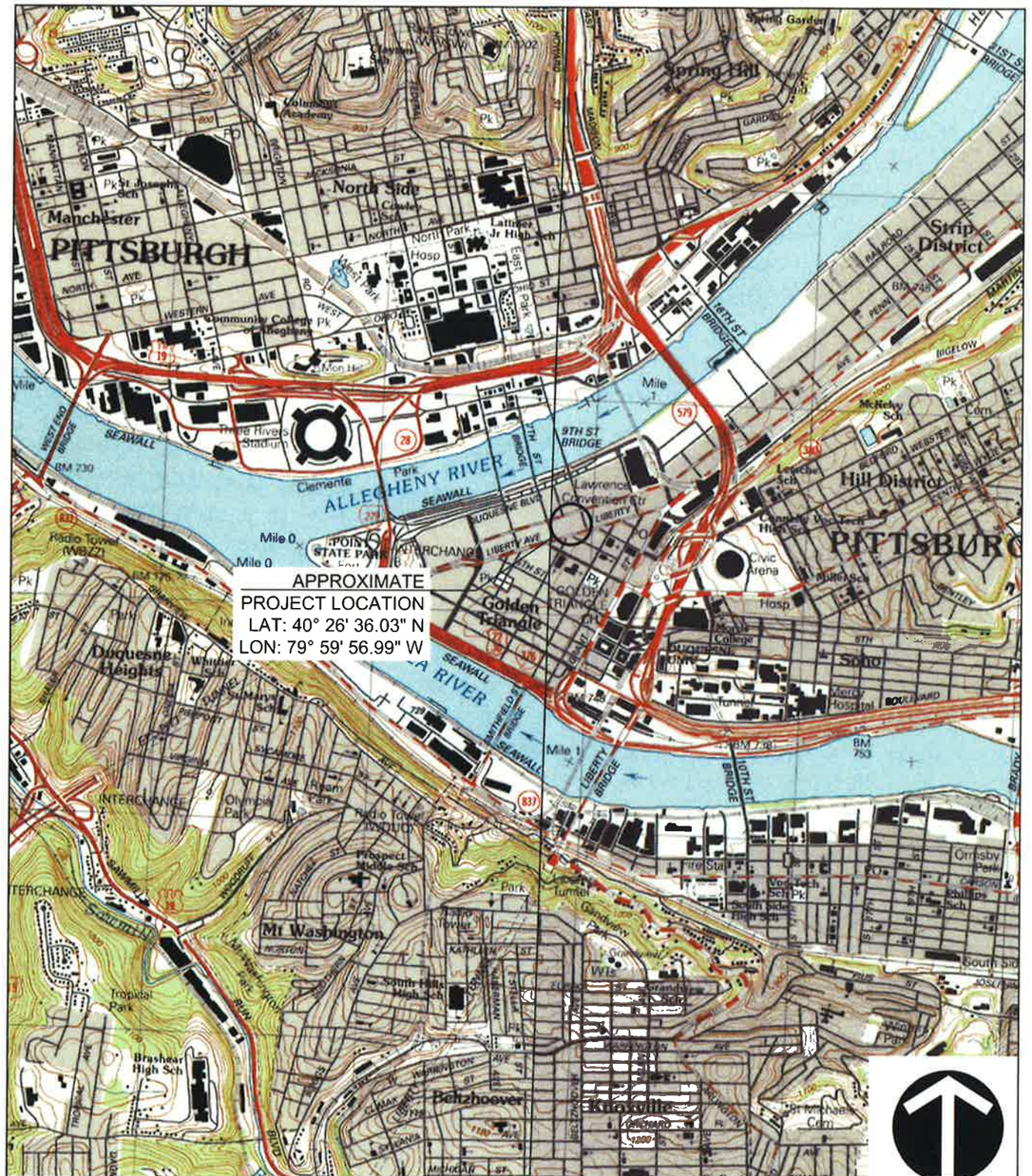
SECTION C. AGENCY REVIEW (See Section C of instructions)

Yes	No		
☒	☐	1.	Is the proposed plan consistent with the municipality's Official Sewage Facilities Plan? If no, what are the inconsistencies?
☐	☒	2.	Are there any waste water disposal needs in the area adjacent to the new land development that should be considered by the municipality? If yes, describe
☐	☒	3.	Is there any known groundwater degradation in the area of the proposed subdivision? If yes, describe
☒	☐	4.	The county or joint county health department recommendation concerning this proposed plan is as follows: ACHD recommends approval. See attached letter.
		5.	Name, title and signature of person completing this section: Name: Michael Scheer Title: Environmental Health Administrator II Signature: Michael W Scheer Date: February 1, 2019 Name of County Health Department: ACHD Address: 3901 Penn Avenue, Building #5, Pittsburgh PA 15224-1318 Telephone Number: 412-578-8388

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.



SITE LOCATION MAP - USGS PITTSBURGH EAST QUAD

SITE LOCATION MAP	800 PENN AVENUE APARTMENTS	Date	No.	REVISION RECORD
Project Number: G-39113	800 PENN AVENUE	-	01	-
Drawing Scale: 1" = 2000'	PITTSBURGH, PA 15212	-	02	-
Date Issued: SEPT. 2016		-	03	-
Index Number: --	PREPARED FOR:	-	04	-
Drawn By: CRJ	--	-	05	-
Checked By: --	--	-	06	-
Project Manager: RWM	--	-	07	-
USGS		-	08	-

GATEWAY®
The Gateway Engineers, Inc.
Full-Service Civil Engineering & Surveying
Pittsburgh, PA
gatewayengineers.com 855-634-9284

Path & Filename: G:\Projects\39000\39113 800 Penn Avenue\Dwg\02-Sheets\USGS Site Location Map.dwg
Plot Date: 9/13/2018 3:39 PM Craig R. Jubic, P.E. Save Date: 9/13/2018 3:39 PM

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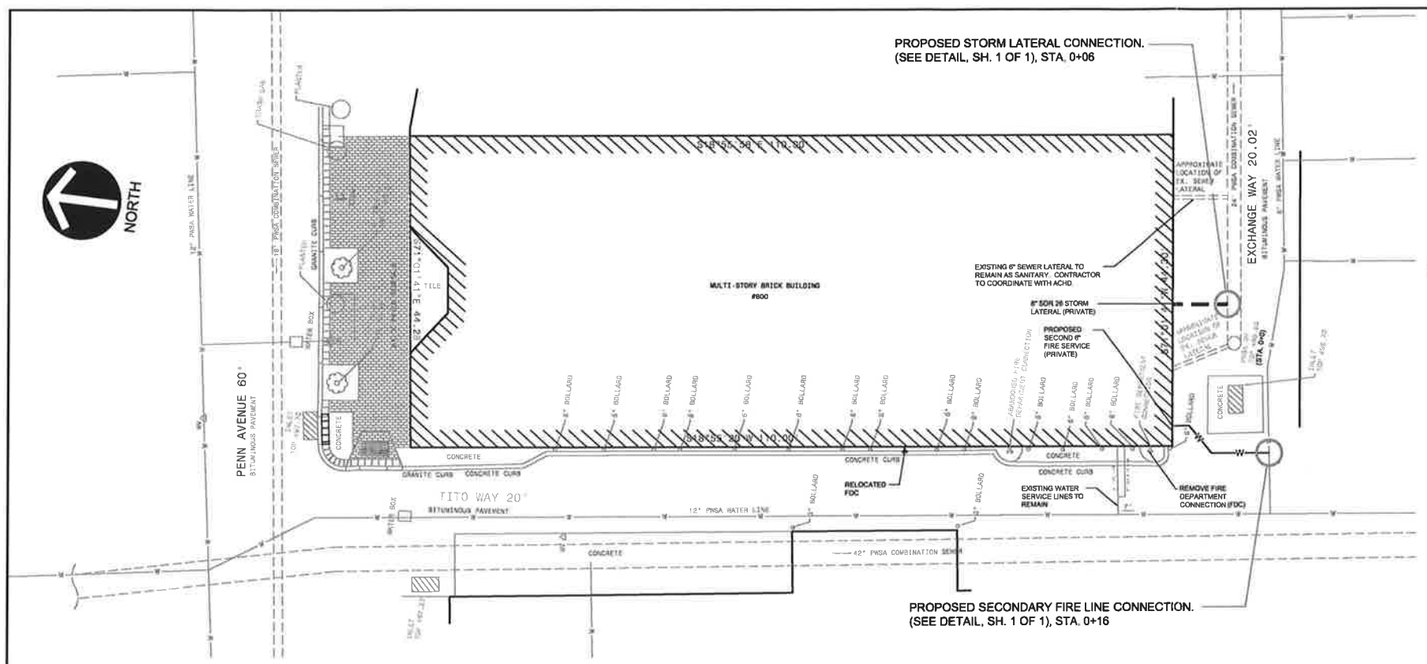
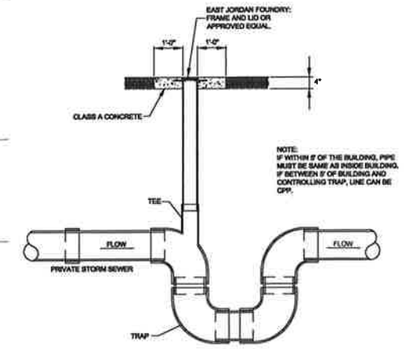
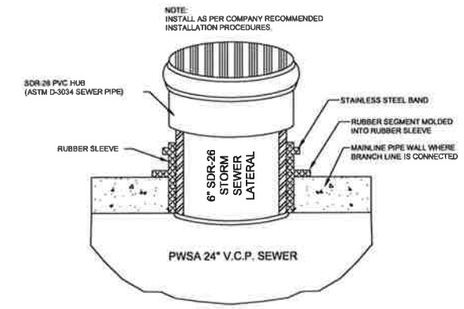




P-TRAP DETAIL (PRIVATE)

NOT TO SCALE



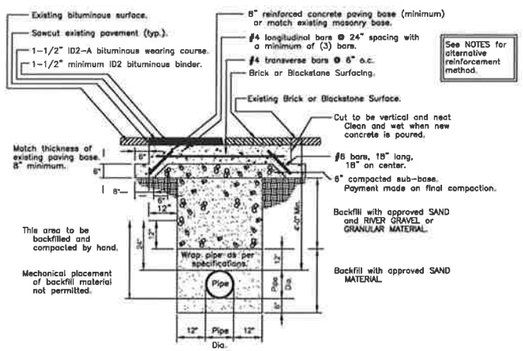
STORM SEWER LATERAL CONNECTION - INSERTA TEE DETAIL

NOT TO SCALE

LEGEND:

- PROPOSED STORM SEWER
- PROPOSED WATER SERVICE LINE

WATER AND SEWER FLOW DATA	
WATER CONSUMPTION	1620 GPD
SANITARY FLOW	1620 GPD
STORM FLOW	0.66 CFS
PLANNING MODULE NUMBER (ASSIGNED BY PWSA)	.
PA. DEP APPROVAL DATE (ASSIGNED BY PWSA)	.



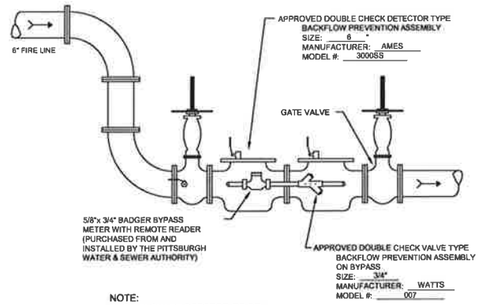
NOTES:

Reinforcement shall be considered incidental to concrete paving base.
Underpinning method will not be used if it will interfere with sub-base drainage. (See City of Pittsburgh Standard Drawings ML 208-209, Folder M-18 and ML 243, Folder M-18).
Paving material to match existing street surface.
All trench material is to be placed and mechanically compacted in 6" layers.
Overexcavation of underpinning shall be replaced with concrete; backfilling with other materials is not acceptable.
ALTERNATE REINFORCEMENT METHOD: Wire Fabric reinforcement may be used. Smooth wire (W), deformed wire (D), or a combination of both may be used. The transverse wires may be above or below the longitudinal wires. Wire size shall be as per the chart. Wire spacing to be 6" x 6".

Pav't. Depth	Min. long. Wire Size	Pav't. Depth	Min. Long. Wire Size
8"	W5.5 or D5	11"	W7.5 or D7
9"	W6 or D5.5	12"	W8 or D7.5
10"	W7 or D6.5	13"	W9 or D8

WATER LINE TRENCH AND REPAVING DETAIL

NOT TO SCALE

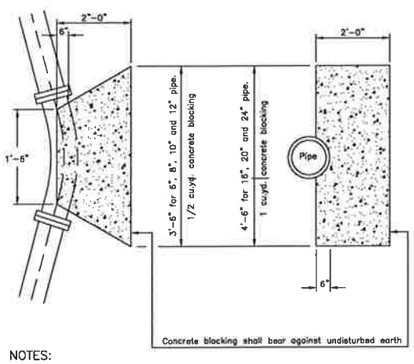


NOTE:
BACK FLOW PROTECTOR TO BE LOCATED IN BUILDING.

"SECONDARY FIRE SERVICE LINE"

TYPICAL PLUMBING SCHEMATIC - FIRE PROTECTION

NOT TO SCALE



NOTES:

Concrete thrust blocking shall be provided at all tees, bends, caps and plugs. In addition, all pipe bends shall be harnessed with mechanical joint retainer glands, using either set screw or lug type retaining system. Concrete thrust blocks shall be Class "P" concrete.

CONCRETE BLOCKING AND HARNESSING DETAIL

NOT TO SCALE

THE PITTSBURGH WATER AND SEWER AUTHORITY

*APPROVAL FOR:

__X__ NEW WATER TAP, BACKFLOW PREVENTOR, AND METER INSTALLATION

__X__ NEW SANITARY AND/OR STORM SEWER TAP

__X__ INCREASE IN FLOW AT EXISTING SEWER AND/OR WATER CONNECTION

_____ SEWER TAP TERMINATION

_____ WATER TAP TERMINATION

*DISCLAIMER:
Signatures/Approval by PWSA are for the physical connection(s) to the water and/or sewer system only.

Responsibility for the design and work depicted by the drawings, including the flow design for the facilities, is by the Professional Engineer shown by the seal and signature affixed to the drawing. The PWSA does not represent or warrant that the water supply to the facilities is sufficient to support the design.

Project Coordinator/Project Management Engineer/Reviewer certifies that he/she has reviewed the above noted document(s) in accordance with the Authority's established rules and regulations, based on this review, approval is hereby recommended.

_____ Date _____

Project Coordinator/Project Management Engineer/Reviewer

Approval Date

_____ _____

_____ _____

_____ _____

Director of Field Services

"CITY OF PITTSBURGH ONLY"

PLEASE BE ADVISED OF THE FOLLOWING REQUIREMENTS FOR INSTALLING FIRE SERVICE (UNDERGROUND) MAINS AND THEIR APPURTENANCES IN THE CITY OF PITTSBURGH.

A PERMIT MUST BE OBTAINED FROM THE BUREAU OF BUILDING INSPECTION (BBI), PRIOR TO INSTALLING THE UNDERGROUND FIRE SERVICE MAIN. APPLICATION FOR THIS PERMIT MUST BE MADE BY A CONTRACTOR, THAT IS REGISTERED WITH THE CITY, AND MUST INCLUDE 3 SETS OF THE "WATER TAP-IN" PLANS BEARING THE APPROVAL STAMP OF PWSA. ONCE THE DRAWINGS HAVE BEEN REVIEWED, APPROVED, AND THE PERMIT ISSUED; ALL REQUIRED THRUST BLOCKING MUST BE INSPECTED, FOR COMPLIANCE WITH NFPA 13, BY A CITY BUILDING INSPECTOR BEFORE IT IS BACKFILLED. A "CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING" MUST THEN BE COMPLETED, AND GIVEN TO THE CITY APPROVED FIRE INSPECTOR THAT IS HIRED TO WITNESS THE FLUSH AND HYDROSTATIC TESTS. THEY WILL THEN FORWARD THE TEST RESULTS TO BBI.

FAILURE TO COMPLY MAY RESULT IN FINES AND/OR A STOP WORK ORDER.

NOTE: PERMITS FOR THE INTERIOR SPRINKLER/STANDPIPE SYSTEM WILL NOT BE ISSUED UNTIL ALL UNDERGROUND INSTALLATIONS HAVE BEEN INSPECTED, AND APPROVED. TO CONTACT BBI, CALL: (412) 255-2161.

INSTALLATION

Reduced Pressure Principle
Backflow Prevention Devices

1. Must be installed immediately after the water meter inside the building and before any branch lines leaking off the water service line.
2. Installed so as to be readily accessible and with adequate space for inspection, testing, maintenance, and dis-assembly.
3. Mounted in a horizontal position except for two models which permit horizontal or vertical mounted.
4. Installed so that the relief port is always readily visible and vented to drain.
5. Protected from freezing by installation within a heated building.
6. Desirable the device should be located a minimum of 18" from the nearest wall and the center line of the pipe - and between 24" and 48" off the deck for horizontal installation.
7. Pit or vault installation is prohibited unless permission is obtained from the Pittsburgh Water and Sewer Authority.

HYDRANT FLOW TEST DATA

(REQUIRED FOR 1" OR LARGER TAPS)

Date of Test: 10/24/2018 Hydrant Permit Number: 18-151

Test Performed By: J & J Fire Protection, Inc.

	FLOW HYDRANT	PRESSURE HYDRANT
Hydrant Number:	A1107	A1120
Location:	Located in front of 808 Penn Avenue	Located in front of 800 Penn Avenue
Static Pressure (PSI)	XXXXXXXXXX	100 PSI
Residual Pressure (PSI)	XXXXXXXXXX	96 PSI
Flow Observed (GPM)	1455 GPM	XXXXXXXXXX

Fire Protection Demands:

Sprinkler System Peak Demands: __00__ GPM __00__ PSI

Inside Hose Demands: __0__ GPM

Outside Hose Demands: __0__ GPM (From Hydrant)

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PATRICK T. COOPER ENGINEER 042918-E

ENGINEER

800 PENN AVENUE

SECONDARY FIRE LINE AND STORM SEWER TAP CONNECTION PLANS

800 PENN AVENUE
2nd WARD, CITY OF PITTSBURGH

SCALE: 1"= 10' SHEET NO. ACCESSION NO _____

DATE: NOVEMBER, 2018 1 OF 1 CASE NO. _____

C-39113 DWG. NO. 403.