



# GATEWAY

On Call. On Time. On Target.

C-17757-0007

October 2023

## **TREK Development Reed Roberts Housing**

Reed St. and Roberts St.  
City of Pittsburgh  
Allegheny County, PA

### **PREPARED FOR**

Addy Cullen, Project Manager  
TREK Development  
130 7th St., Suite 300  
Pittsburgh, PA 15222

### **SUBMITTED BY**

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# SEWAGE FACILITIES PLANNING MODULE



A FULL-SERVICE CIVIL ENGINEERING FIRM

## **EXHIBITS**

- EXHIBIT A. Sewage Facilities Planning Module (SFPM) – Component 3 – Sewage Collection and Treatment Facilities
- EXHIBIT B. Sewage Facilities Planning Module (SFPM) – Component 3 – Sewage Collection and Treatment Facilities – ALCOSAN Approval
- EXHIBIT C. PWSA Water and Sewer Availability Letter
- EXHIBIT D. Project Narrative
- EXHIBIT E. USGS Site Location Map
- EXHIBIT F. Sewage Flow Calculations
- EXHIBIT G. Hydraulic Capacity Calculations (Signed and Sealed)
- EXHIBIT H. Alternatives Analysis
- EXHIBIT I. Sewage Facilities Planning Module – Component 4A – Municipal Planning Agency Review
- EXHIBIT J. Sewage Facilities Planning Module – Component 4C – County or Joint Health Department Review
- EXHIBIT K. Pennsylvania Natural Diversity Inventory (PNDI) Receipt
- EXHIBIT L. Plot Plan

**EXHIBIT A.**

**Sewage Facilities Planning Module (SFPM) – Component 3 – Sewage  
Collection and Treatment Facilities**



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 Reed Roberts Development

2. Brief Project Description The proposed development is construction of two three-bedroom triplexes, 13 three-bedroom townhouses, five two-bedroom townhouses, one 53-unit senior apartment building, and one 46-unit multi-family apartment building. These will include a community center; associated parking, with the first floor of each apartment building being parking; landscaping which will include hardscaping, semi-permeable pavers, green space, and a rain garden; and utilities, stormwater facilities, and related necessary amenities for residential development.

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

Municipality Name	County	City	Boro	Twp
City of Pittsburgh, 3 <sup>rd</sup> Ward	Allegheny	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Prendergast	Kyla			Senior Environmental Planner

Additional Individual Last Name	First Name	MI	Suffix	Title

Municipality Mailing Address Line 1

Department of City Planning

Mailing Address Line 2

200 Ross Street, 4<sup>th</sup> Floor

Address Last Line -- City

Pittsburgh

State

PA

ZIP+4

15219

Area Code + Phone + Ext.

FAX (optional)

Email (optional)



412-255-2516

kyla.prendergast@pittsburghpa.gov

**C. SITE INFORMATION** (See Section C of instructions)

**Site (Land Development or Project) Name**

Reed Roberts Development

Site Location Line 1

Reed St & Roberts St

Site Location Line 2

Site Location Last Line -- City

Pittsburgh

State

PA

ZIP+4

15261

Latitude

40.444719

Longitude

-79.961717

Detailed Written Directions to Site From downtown Pittsburgh, head East on Seventh Ave. Keep right at the fork, follow signs for I-579 N/PA-380 E/PPG Arena/Bigelow Blvd. Turn left onto Bigelow Blvd. Turn right onto Bedford Ave. Continue straight to stay on Bedford Ave. Turn right onto Crawford St. Turn left onto Reed St.

Description of Site The site presently is a vacant lot with predominately open space and some debris remaining from previous development.

**Site Contact (Developer/Owner)**

Last Name

Cullen

First Name

Addy

MI

Suffix

Phone

412-688-7200

Ext.

1015

Site Contact Title

Project Manager

FAX

Site Contact Firm (if none, leave blank)

Trek Development

Email

acullen@trekdevelopment.com

Mailing Address Line 1

130 7<sup>th</sup> Street

Mailing Address Line 2

Suite 300

Mailing Address Last Line -- City

Pittsburgh

State

PA

ZIP+4

15222

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

Last Name

Donnelly

First Name

Sean

MI Suffix

M P.E.

Title

Project Manager

Mailing Address Line 1

100 McMorris Rd

Consulting Firm Name

The Gateway Engineers, Inc.

Mailing Address Line 2

Address Last Line -- City

Pittsburgh

State

PA

ZIP+4

15205-9401

Country

USA

Email

sdonnelly@gatewayengineers.com

Area Code + Phone

412-921-4030

Ext.

146

Area Code + FAX

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 (PWSA)

**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 72

Connections 10

Name of:

existing collection or conveyance system Reed Street (15" VCP) and Miller Street (15" VCP)

owner The Pittsburgh Water and Sewer Authority

existing interceptor Monongahela River Interceptor (M-05)

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 25984

Clean Streams Law Permit Number \_\_\_\_\_

Location of discharge point for a new facility. Latitude 40° 28' 34"      Longitude 80° 02' 44" W

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 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 Steven Bristol

Agent Signature Steven Bristol      Date 4/14/2023

(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](http://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](http://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 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 15,160 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	2,280,600	7,982,000	89,000	370,000	115,550	404,400
Conveyance		20,000,000	3,000,000	3,260,000	3,001,000	3,323,000
Treatment	250,000,000	250,000,000	194,200,000	250,000,000	248,800,000	245,000,000

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 PWSA

Name of Responsible Agent Robert Herring

Agent Signature  Robert Herring  
2023.04.10 13:57:28 -04'00'

Date April 10, 2023

**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 13,310 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
<b>Collection</b>	2,788,400	9,759,400	73,000	570,000	175,000	612,500
<b>Conveyance</b>		<u>20,600,000</u>	<u>3,000,000</u>	<u>3,260,000</u>	<u>3,013,000</u>	<u>3,273,000</u>
<b>Treatment</b>	<u>250,000,000</u>	<u>250,000,000</u>	<u>194,200,000</u>	<u>250,000,000</u>	<u>248,800,000</u>	<u>245,000,000</u>

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 PWSA

Name of Responsible Agent Robert Herring

Agent Signature  Robert Herring 2023.04.10 14:00:20 -04'00' Date 4/10/2023

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

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Steven Bristol

Agent Signature Steven Bristol

Date 4/14/2023

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 Steven Bristol

Agent Signature Steven Bristol

Date 4/14/2023

**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.

Sean M. Donnelly, P.E.



Name (Print)

Signature

Project Manager

03-06-2023

Title

Date

100 McMorris Road, Pittsburgh, PA 15205

4129214030

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 \$3,600 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.

$$\#72 \text{ Lots (or EDUs) X } \$50.00 = \$ 3,600$$

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:

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

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)

**EXHIBIT B.**

**Sewage Facilities Planning Module (SFPM) – Component 3 – Sewage  
Collection and Treatment Facilities – ALCOSAN Approval**



April 14, 2023

**Members of the Board**

Sylvia C. Wilson  
*Chair Person*  
Shannah Tharp-Gilliam, Ph.D.  
Harry Readshaw  
Emily Kinkead  
Paul Klein  
Theresa Kail-Smith  
Darrin Kelly

Arletta Scott Williams  
*Executive Director*  
Douglas A. Jackson, P.E.  
*Director  
Operations & Maintenance*  
Michelle M. Buys, P.E.  
*Director  
Environmental Compliance*  
Kimberly N. Kennedy, P.E.  
*Director  
Engineering & Construction*  
Karen Fantoni, CPA, CGMA  
*Director  
Finance*  
Michael Lichte, P.E.  
*Director  
Regional Conveyance*  
Jeanne K. Clark  
*Director  
Governmental Affairs*  
Joseph Vallarian  
*Director  
Communications*  
Julie Motley-Williams  
*Director  
Administration*  
Phil Cole  
*Chief Information Officer  
Information Technology*

Nika Finkelsteyn, E.I.T.  
The Gateway Engineers, Inc.  
100 McMorris Road  
Pittsburgh, PA 15205

**Re: Reed Roberts Housing  
City of Pittsburgh – Allegheny County, PA  
PA DEP Sewage Facilities Planning Module  
ALCOSAN Direct Connection M-05-00**

Dear Ms. Finkelsteyn:

We have reviewed the Component 3 Planning Module for the referenced project to be located at the intersection of Reed Street and Roberts Street with the City of Pittsburgh, 3<sup>rd</sup> Ward. The project will generate a peak flows of 15,150 and 13,310 gpd in the ALCOSAN Monongahela River Interceptor and Woods Run Treatment Plant.

The capacity of the ALCOSAN M-05-00 Regulator Structure is approximately 20.6 MGD. The monitored peak dry weather flow is approximately 3.26 MGD. Dry weather capacity exists for this connection. However, the Monongahela River Interceptor and the Woods Run Treatment Plant does not have the capacity for the flows generated by tributary communities during wet weather periods. This limitation will be addressed as ALCOSAN implements its Clean Water Plan.

ALCOSAN has completed and signed the sections required in the Component 3 module and requests that this letter be made part of the planning module submission. If you have any questions regarding this matter, please contact me at 412-742-1530.

Sincerely,

**ALLEGHENY COUNTY SANITARY AUTHORITY**

Steven Bristol  
Project Engineer I

Attachment

cc: Christina Dean (w/o attachment)      Robert Herring/ PWSA (w/o attachment)  
Dan Thornton (w/o attachment)      Mahbuba Iasmin/ PADEP (w/o attachment)  
Michael Lichte (w/o attachment)      Gina Caliguri/ ACHD (w/o attachment)

EXHIBIT C.

**PWSA Water and Sewer Availability Letter**



07/19/2022

Katherine Laub  
The Gateway Engineers, Inc  
100 McMorris Rd, Pittsburgh PA 15205-9445

**RE: Water and Sewer Availability**  
Reed St & Roberts St, Pittsburgh, PA 15219

Dear Katherine Laub

In response to your inquiry concerning water and sewer availability for the area referenced above, please be advised that water and sewer service will be provided in accordance with the policies and procedures of the Pittsburgh Water and Sewer Authority as described below:

Water service available: Yes

Sewer service available: Yes

8" Reed Street  
8" Roberts Street

**15" Reed Street**  
**15" Roberts Street**

We wish to advise you that, if it is your desire to tap our water and sewer mains for service, your plans must be approved through a development permit application in accordance with the PWSA Developer's Manual.

Please note that the Authority in no way guarantees that the available lines have the capacity or pressure adequate for your project's needs. It is the responsibility of the project developer, design consultant, and/or architects to determine, at their expense, the adequacy of the existing water system to fulfill their needs.

If you have any questions, please feel free to contact me at (412) 255-8800 x 8030. Thank you.

Sincerely,

A handwritten signature in black ink that reads 'Wendy M. Dean'.

Wendy M. Dean  
Engineering Tech II

EXHIBIT D.

**Project Narrative**



## Project Narrative

Reed Roberts Housing, Phases 1A and 1B  
59 Miller Street and 1640 Reed Street, 3<sup>rd</sup> Ward, City of Pittsburgh

The proposed Reed Roberts Housing project, owned by Trek Development, Inc. involves the construction of two three-bedroom triplexes, 13 three-bedroom townhouses, five two-bedroom townhouses, one 53-unit senior apartment building, and one 46-unit multi-family apartment building. These will include a community center; approximately 95 parking spaces, with the first floor of each apartment building being parking; landscaping which will include hardscaping, semi-permeable pavers, green space, and a rain garden; and utilities, stormwater facilities, and related necessary amenities for residential development. These areas are primarily intended for resident and employee use, but will have some amenities open to the public, like the rain garden/green space. The site previously contained four apartment buildings, but which have been torn down since 2013. The project site consists of several parcels which total 4.8 acres.

For the proposed floor plans, peak flows provided in Table 2-1 of PWSA's Developers Manual were used to determine the proposed peak sewage flow/water consumption. The proposed development flow estimate adds up to a total flow of 28,470 GPD or 72 EDUs. This total flow is split between the phases of this project, Phases 1A and 1B; the 28,470 is the sum of 15,160 GPD and 13,310 GPD for 1A and 1B, respectively. Refer to the enclosed calculation sheets for details regarding the breakdown of the peak sewage flow/water consumption estimates.

The proposed storm and sanitary connections will be separate and will wye together five feet from the PWSA-owned sewer. The net flow of the entire project will be split between the two phases. For **Phase 1A**, the proposed sanitary and storm laterals will tie into the existing PWSA owned 15" combination gravity sewers along **Miller Street**. For *Phase 1B*, the proposed sanitary and storm laterals will tie into the existing PWSA owned 15" combination gravity sewers along *Reed Street*. The sewers connect into the Monongahela River Interceptor (M-05) Sewer and then to ALCOSAN's treatment plant, where it receives final treatment.

## **Flow Calculation Summary**

### Present Flows – Flow Monitoring

One month of flow monitoring was completed by Drnach Environmental in manholes MH002H093 and MH011A002 to determine the existing average and peak flows present in the sewer of interest. Flow monitoring began on December 14<sup>th</sup>, 2022 and ended on January 15<sup>th</sup>, 2023. **Analysis of the received data reports existing average flows of 0.089 MGD and 0.073 MGD, and instantaneous peak flows of 0.370 MGD and 0.570 MGD, respectively.**

### Design Capacity

The existing sewers' average and peak hydraulic capacities were calculated using two methods: for MH002H093, the slope of the sewer of interest was determined using 3RWW Sewer Atlas that runs between the monitoring manhole (MH002H093) and the next upstream manhole, MH002H081; for MH011A002, the existing survey data was used to determine the existing slope between the monitoring manhole (MH011A002) and the next upstream manhole (MH011A003). The sewer was analyzed under full flow conditions, and a peaking factor of 3.5 (combined sewer) was applied to obtain the peak hydraulic capacities, per the PWSA Developer's Manual. **The average hydraulic capacities were calculated to be 2,204 MGD and 2,788 MGD, respectively, while the peak hydraulic capacities were calculated to be 7,717 MGD and 9,759 MGD, respectively.**

### 5-Year Projected Flow

Using the equations in the PWSA Developer's Manual, the project flows—15,160 GPD and 13,310 GPD—were added to the present average and peak flows to determine the projected flows in five (5) years. **The projected average flows are estimated to be 116 MGD and 175 MGD, and the projected peak flows are estimated to be 404 MGD and 612 MGD, respectively.** Since the 5-year flows are less than the calculated design capacity of the sewer, the additional flow due to the construction of Reed Roberts Housing will not overload the sewer.

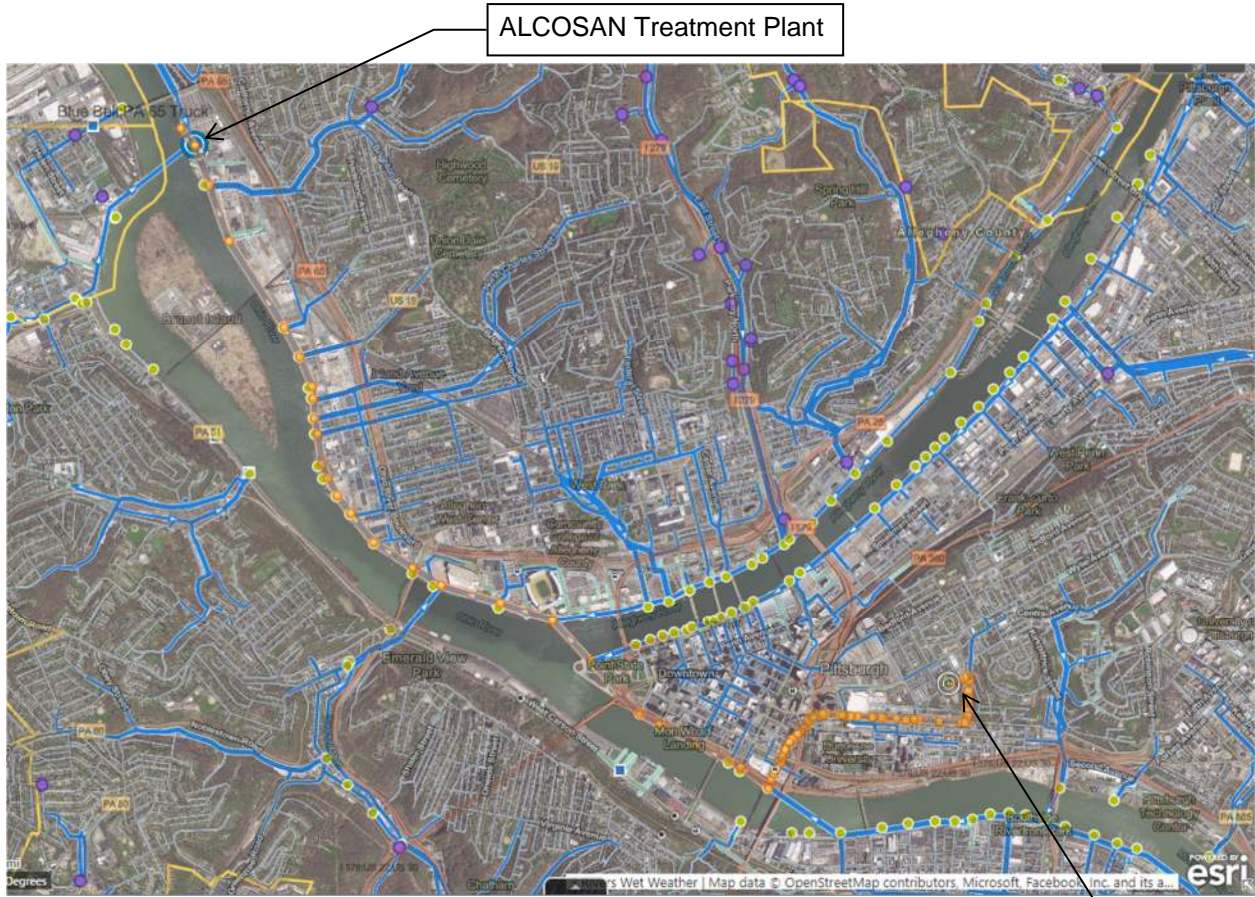
EXHIBIT E.

**USGS Site Location Map**

# Sewer Flow Mapping

Reed Roberts Housing

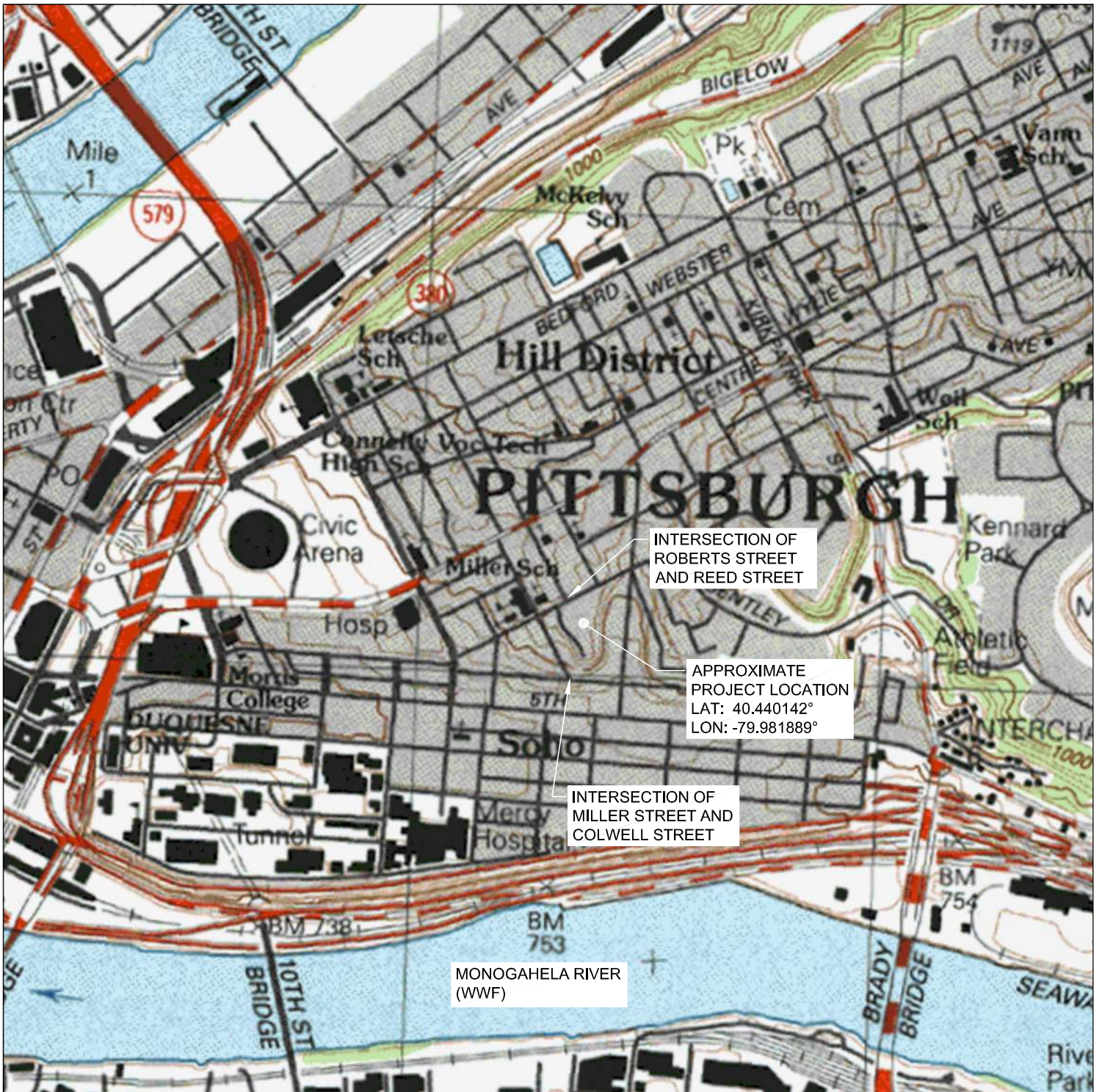
Reed St. & Roberts St., 3<sup>rd</sup> Ward, City of Pittsburgh



Source: 3 River's Wet Weather Sewer Atlas

Project Location





**SITE LOCATION MAP**  
**USGS EAST PITTSBURGH QUAD**  
**SCALE: 1" = 1,000'**



USGS SITE LOCATION MAP  
 Project Number: C-17757-0007  
 Drawing Scale: 1" = 1000'  
 Date Issued: MARCH 2023  
 Index Number: \_\_\_\_\_  
 Drawn By: NEF  
 Checked By: \_\_\_\_\_  
 Project Manager: SMD  
**USGS**

**REED ROBERTS HOUSING**  
 REED STREET  
 PITTSBURGH, PA 15219  
 PREPARED FOR:  
**TREK DEVELOPMENT GROUP**  
 130 7TH STREET, SUITE 300  
 PITTSBURGH, PA 15222

Date	No	REVISION RECORD
-	01	-
-	02	-
-	03	-
-	04	-
-	05	-
-	06	-
-	07	-
-	08	-

EXHIBIT F.

**Sewage Flow Calculations**

## Anticipated Sewage Flow Calculations

Reed Roberts Development **Phase 1A**  
Reed Street & Roberts Street Intersection, 3 Ward, City of Pittsburgh

### Peak Proposed Flow Unit Summary

#### **Proposed Apartment Building A:**

1<sup>st</sup> Floor Office space: 2,668 sf  
2<sup>nd</sup> Floor Office space: 1,873 sf  
1-bedroom apartments: 30 units  
2-bedroom apartments: 16 units

#### **Proposed Building C:**

3-bedroom apartments: 6 units

#### **Proposed Building D:**

2-bedroom apartments: 6 units  
3-bedroom apartments: 3 units

### **Water Use and Sanitary Sewage Flow Estimate**

Water Use and Sanitary Flows from Table 1 of Section 3 within the PWSA Developer's Manual<sup>1</sup>:

1 bedroom = 150 GPD/unit  
2 bedrooms = 300 GPD/unit  
3 bedrooms = 400 GPD/unit  
Office = 10 GPD/unit

Maximum Floor Area Allowances per occupant<sup>2</sup>: Business area = 100 sf per occupant  
Office Area = 4,541 sf

Total Number of Employees = 4,541 sf / 100 sf per occupant = 46 employees

#### Peak Flow Calculation:

$[30 \text{ units} \times (150 \text{ GPD/unit})] + [22 \text{ units} \times (300 \text{ GPD/unit})] + [9 \text{ units} \times (400 \text{ GPD/unit})] + [46 \text{ employees} \times (10 \text{ GPD/unit})] =$   
15,160 GPD

### Net Sewage Flow / Water Consumption

Net Sewage Flow = Peak Proposed Flow – Peak Existing Flow

Net Sewage Flow = 15,160 GPD – 0 GPD

**Net Sewage Flow = 15,160 GPD (38 EDUs)**

Net Sewage Flow = Net Water Usage

**Net Water Usage = 15,160 GPD (38 EDUs)**

#### **Sources:**

<sup>1</sup> Table 1, Section 3, PWSA Developer's Manual

<sup>2</sup> Table 1004.1.2 Maximum Floor Area Allowances per Occupant, 2015 International Building Code and Commentary Vol. 1



## Anticipated Sewage Flow Calculations

Reed Roberts Development **Phase 1B**  
Reed Street & Roberts Street Intersection, 3 Ward, City of Pittsburgh

### Peak Proposed Flow Unit Summary

#### **Proposed Apartment Building B:**

1<sup>st</sup> Floor Office space: 1,161 sf  
2<sup>nd</sup> Floor Office space: 1,414 sf  
1-bedroom apartments: 43 units  
2-bedroom apartments: 10 units

#### **Proposed Building C:**

3-bedroom apartments: 9 units

### **Water Use and Sanitary Sewage Flow Estimate**

Water Use and Sanitary Flows from Table 1 of Section 3 within the PWSA Developer's Manual<sup>1</sup>:

1 bedroom = 150 GPD/unit  
2 bedrooms = 300 GPD/unit  
3 bedrooms = 400 GPD/unit

Maximum Floor Area Allowances per occupant<sup>2</sup>: Business area = 100 sf per occupant

Office Area = 2,575 sf

Total Number of Employees = 2,575 sf / 100 sf per occupant = 26 employees

Peak Flow Calculation:

$[43 \text{ units} \times (150 \text{ GPD/unit})] + [10 \text{ units} \times (300 \text{ GPD/unit})] + [9 \text{ units} \times (400 \text{ GPD/unit})] + [26 \text{ employees} \times (10 \text{ GPD/unit})] =$   
13,310 GPD

### Net Sewage Flow / Water Consumption

Net Sewage Flow = Peak Proposed Flow – Peak Existing Flow

Net Sewage Flow = 13,310 GPD – 0 GPD

**Net Sewage Flow = 13,310 GPD (34 EDUs)**

Net Sewage Flow = Net Water Usage

**Net Water Usage = 13,310 GPD (34 EDUs)**

#### **Sources:**

<sup>1</sup> Table 1, Section 3, PWSA Developer's Manual

<sup>2</sup> Table 1004.1.2 Maximum Floor Area Allowances per Occupant, 2015 International Building Code and Commentary Vol. 1



EXHIBIT G.

**Hydraulic Capacity Calculations (Signed and Sealed)**

Reed Roberts - MH002H093 (Phase 1A)		
Sewage Capacity Calculations		
Pipe Diameter (per Flow Monitoring Report) =	15	in
Upstream Invert Elevation (per 3RWW Sewer Atlas) =	838.15	
Downstream Invert Elevation (per 3RWW Sewer Atlas) =	827.28	
Pipe Length (per 3RWW Sewer Atlas) =	223	ft
Slope =	4.87	%
Mannings n =	0.015	VCP
Design Capacity		
Sewer Type (Combined/Separate)	Combined	
Peaking Factor	3.5	
Peak Hydraulic Capacity (Using Mannings Equation full-flow)	12.4	cfs
	7,982,015	GPD
Average Hydraulic Capacity (Peak Capacity divided by Peaking Factor)	2,280,576	GPD
Present Flows - MH002H093		
Present Average Flows (Flow data, refer to "Data Analysis" spreadsheet)	0.089	MGD
	89,000	GPD
Present Peak Flows (Flow data, refer to "Data Analysis" spreadsheet)	0.370	MGD
	370,000	GPD
Project Flow		
Project Flow	15,160	GPD
Projected Flows		
Projected Peak [(Present Peak Flow + Project Flow) x 1.05]	404,418	*GPD
Projected Average (Projected Peak Flow divided by Peaking Factor)	115,548	*GPD

\*Projected Flows are less than the Design Capacity

Input  
 Output



# Channel Report

Phase 1A

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Thursday, Jan 19 2023

## Sewer Design Capacity - MH002H093

### Circular

Diameter (ft) = 1.25

Invert Elev (ft) = 838.15

Slope (%) = 4.87

N-Value = 0.015

### Calculations

Compute by: Known Depth

Known Depth (ft) = 1.25 ← FULL FLOW

### Highlighted

Depth (ft) = 1.25

Q (cfs) = 12.35

Area (sqft) = 1.23

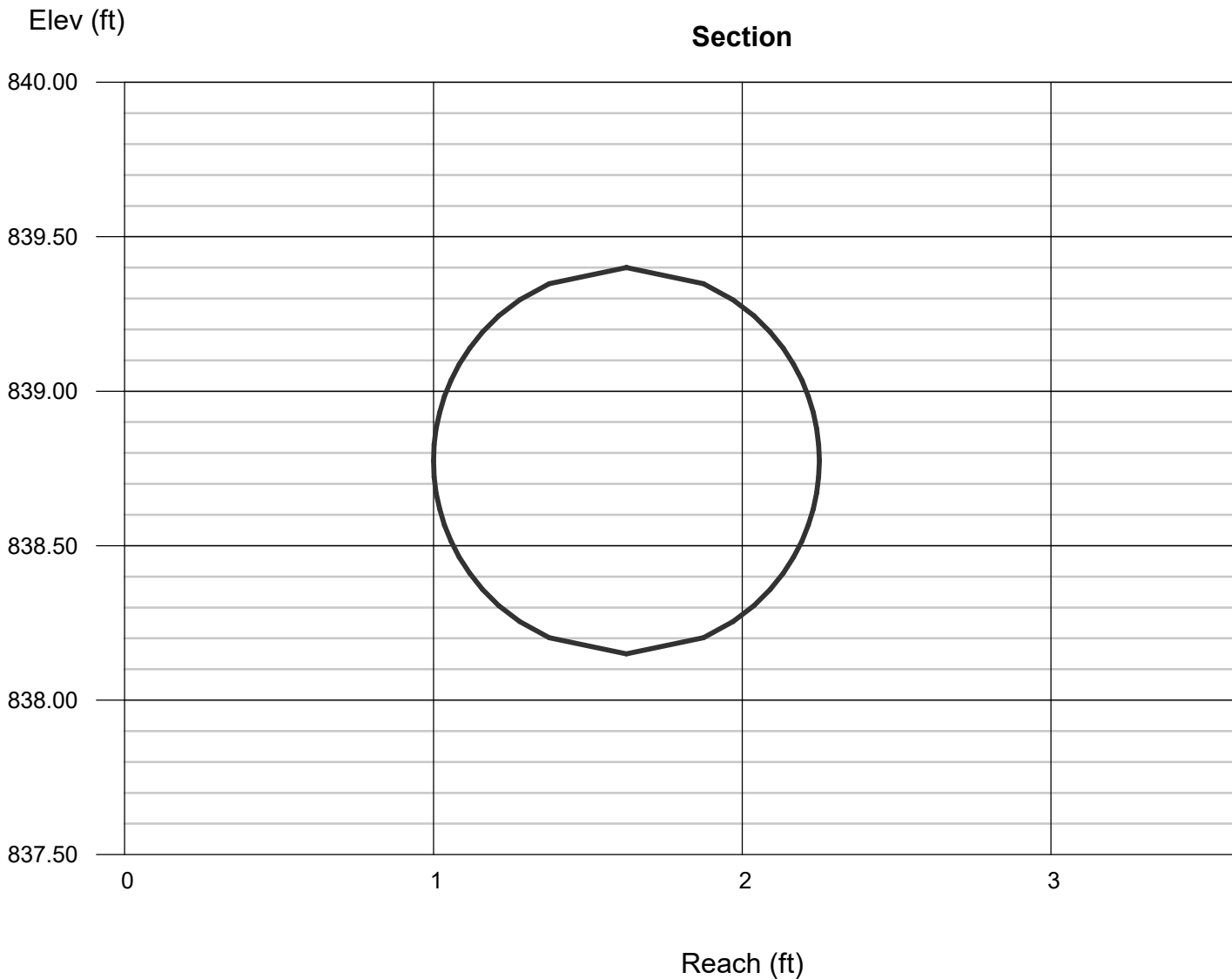
Velocity (ft/s) = 10.06

Wetted Perim (ft) = 3.93

Crit Depth, Yc (ft) = 1.22

Top Width (ft) = 0.00

EGL (ft) = 2.82



Reed Roberts - MH011A002 (Phase 1B)		
Sewage Capacity Calculations		
Pipe Diameter (per Flow Monitoring Report) =	15	in
Upstream Invert Elevation (per survey) =	944.96	
Downstream Invert Elevation (per survey) =	933.64	
Pipe Length (per survey) =	207	ft
Slope =	5.47	%
Mannings n =	0.013	Concrete
Design Capacity		
Sewer Type (Combined/Separate)	Combined	
Peaking Factor	3.5	
Peak Hydraulic Capacity (Using Mannings Equation full-flow)	15.1	cfs
	9,759,387	GPD
Average Hydraulic Capacity (Peak Capacity divided by Peaking Factor)	2,788,396	GPD
Present Flows - MH011A002		
Present Average Flows (Flow data, refer to "Data Analysis" spreadsheet)	0.073	MGD
	73,000	GPD
Present Peak Flows (Flow data, refer to "Data Analysis" spreadsheet)	0.570	MGD
	570,000	GPD
Project Flow		
Project Flow	13,310	GPD
Projected Flows		
Projected Peak [(Present Peak Flow + Project Flow) x 1.05]	612,476	*GPD
Projected Average (Projected Peak Flow divided by Peaking Factor)	174,993	*GPD

\*Projected Flows are less than the Design Capacity

	Input
	Output



# Channel Report

Phase 1B

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Tuesday, Jan 17 2023

## Sewer Design Capacity - MH011A002

### Circular

Diameter (ft) = 1.25

Invert Elev (ft) = 933.64

Slope (%) = 5.47

N-Value = 0.013

### Calculations

Compute by: Known Depth

Known Depth (ft) = 1.25 ← FULL FLOW

### Highlighted

Depth (ft) = 1.25

Q (cfs) = 15.10

Area (sqft) = 1.23

Velocity (ft/s) = 12.31

Wetted Perim (ft) = 3.93

Crit Depth, Yc (ft) = 1.24

Top Width (ft) = 0.00

EGL (ft) = 3.60

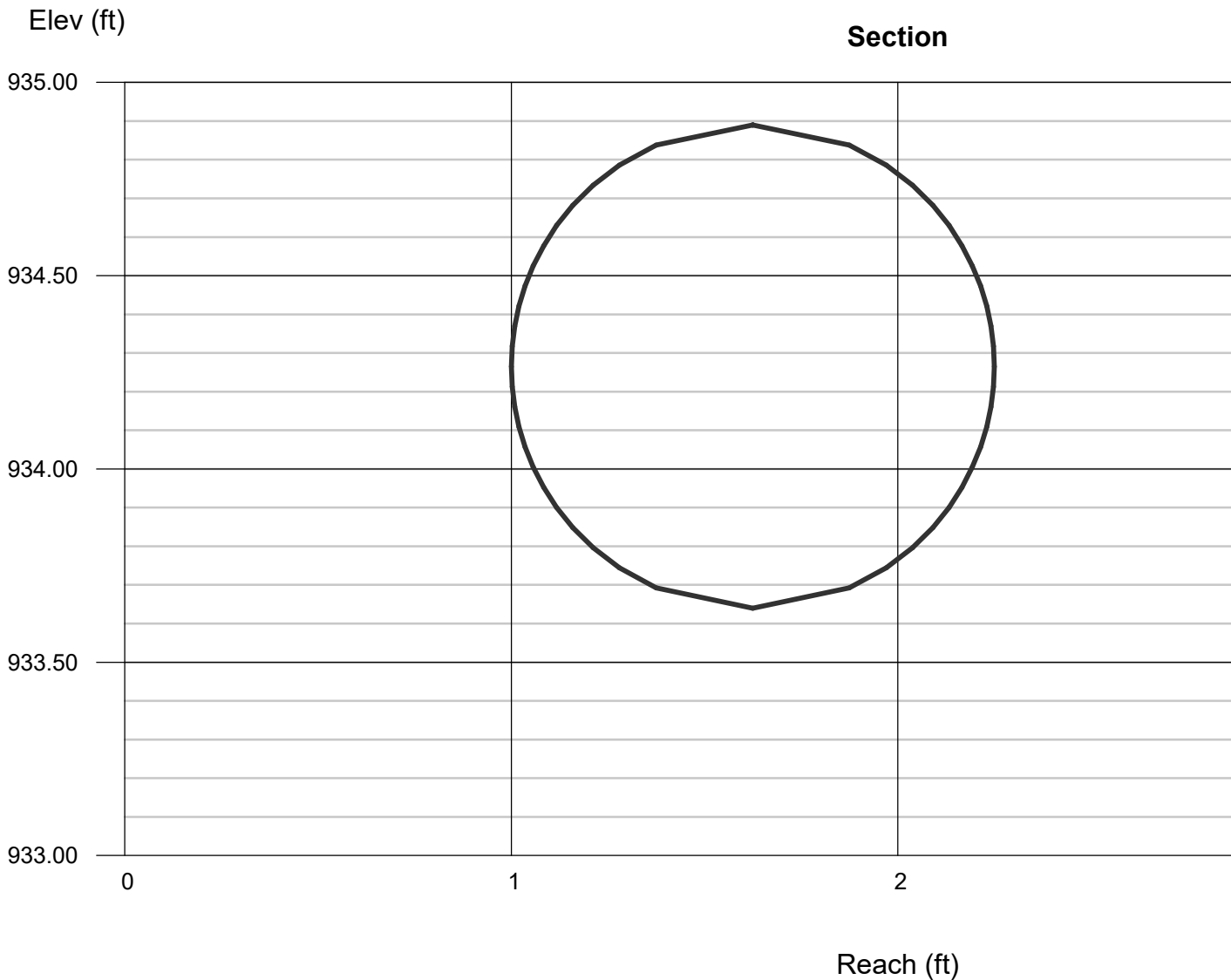


EXHIBIT H.

**Alternatives Analysis**

## **Alternatives Analysis**

Reed Roberts Housing, Phases 1A and 1B  
59 Miller Street and 1640 Reed Street, 3<sup>rd</sup> Ward, City of Pittsburgh

The proposed short-term and long-term ultimate method of sanitary sewage conveyance and treatment of the total peak flow of 15,160 GPD/38 EDUs for Phase 1A, 13,310 GPD/34 EDUs for Phase 1B, or combined total peak flow of 28,470 GPD/72 EDUs for the entire site, from the proposed building will involve the use of adequately designed storm and sanitary sewer laterals, owned and maintained by the property owner, connecting into the PWSA-owned 15" combination gravity sewer system located in Miller Street for Phase 1A, or the 15" combination gravity sewer along Reed Street for Phase 1B. This public sewer ties into ALCOSAN's Monongahela River Interceptor (M-05) and sewage flows via gravity to the ALCOSAN Treatment Plant at Woods Run.

The project site is surrounded by residential and commercial buildings. All adjacent properties utilize the existing public sewer system as their ultimate sewage disposal conveyance system and the ALCOSAN Treatment Plant as their ultimate sewage treatment method. There are no feasible sewage facilities alternatives because access to the public sewer system is available and the proposed building occupies the majority of the property.

EXHIBIT I.

**Sewage Facilities Planning Module – Component 4A –  
Municipal Planning Agency Review**





## INSTRUCTIONS FOR COMPLETING COMPONENT 4A MUNICIPAL PLANNING AGENCY REVIEW

*Remove and recycle these instructions prior to mailing component to the approving agency.*

### Background

This component, Component 4, is used to obtain the comments of planning agencies and/or health departments having jurisdiction over the project area. It is used in conjunction with other planning module components appropriate to the characteristics of the project proposed.

### Who Should Complete the Component?

The component should be completed by any existing municipal planning agency, county planning agency, planning agency with areawide jurisdiction, and/or health department having jurisdiction over the project site. It is divided into sections to allow for convenient use by the appropriate agencies.

The project sponsor must forward copies of this component, along with supporting components and data, to the appropriate planning agency(ies) and health department(s) (if any) having jurisdiction over the development site. These agencies are responsible for responding to the questions in their respective sections of Component 4, as well as providing whatever additional comments they may wish to provide on the project plan. After the agencies have completed their review, the component will be returned to the applicant. The agencies have 60 days in which to provide comments to the applicant. If the agencies fail to comment within this 60 day period, the applicant may proceed to the next stage of the review without the comments. The use of registered mail or certified mail (return receipt requested) by the applicant when forwarding the module package to the agencies will document a date of receipt.

After receipt of the completed Component 4 from the planning agencies, or following expiration of the 60 day period without comments, the applicant must submit the entire component package to the municipality having jurisdiction over the project area for review and action. If approved by the municipality, the proposed plan, along with the municipal action, will be forwarded to the approving agency (Department of Environmental Protection or delegated local agency). The approving agency, in turn, will either approve the proposed plan, return it as incomplete, or disapprove the plan, based upon the information provided.

### *Instructions for Completing Planning Agency and/or Health Department Review Component*

#### **Section A. Project Name**

Enter the project name as it appears on the accompanying sewage facilities planning module component (Component 2, 2m, 3, 3s or 3m).

#### **Section B. Review Schedule**

Enter the date the package was received by the reviewing agency, and the date that the review was completed.

#### **Section C. Agency Review**

1. Answer the yes/no questions and provide any descriptive information necessary on the lines provided. Attach additional sheets, if necessary.
2. Complete the name, title, and signature block.

#### **Section D. Additional Comments**

The Agency may provide whatever additional comment(s) it deems necessary, as described in the form. Attach additional sheets, if necessary.



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

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 local municipal planning agency for their comments.

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

Project Name

Reed Roberts Development

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

1. Date plan received by municipal planning agency 4/25/20232. Date review completed by agency 4/26/2023

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

- | Yes                                 | No                                  |   |
|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/>            | <input checked="" 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"/>            | N/A <input type="checkbox"/>        | 2. Is this proposal consistent with the comprehensive plan for land use?<br>If no, describe the inconsistencies _____                     |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 3. Is this proposal consistent with the use, development, and protection of water resources?<br>If no, describe the inconsistencies _____ |
| <input checked="" 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 checked="" type="checkbox"/> | 5. Does this project propose encroachments, obstructions, or dams that will affect wetlands?<br>If yes, describe impacts _____            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 6. Will any known historical or archaeological resources be impacted by this project?<br>If yes, describe impacts _____                   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 7. Will any known endangered or threatened species of plant or animal be impacted by this project?<br>If yes, describe impacts _____      |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 8. Is there a municipal zoning ordinance?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 9. Is this proposal consistent with the ordinance?<br>If no, describe the inconsistencies _____   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 10. Does the proposal require a change or variance to an existing comprehensive plan or zoning ordinance?                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 11. Have all applicable zoning approvals been obtained?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 12. Is there a municipal subdivision and land development ordinance?  |

**SECTION C. AGENCY REVIEW (continued)**

- | Yes                                 | No                                  |  |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 13. Is this proposal consistent with the ordinance?<br>If no, describe the inconsistencies _____   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 14. Is this plan consistent with the municipal Official Sewage Facilities Plan?<br>If no, describe the inconsistencies _____                               |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?<br>If yes, describe _____ |
| <input type="checkbox"/>            | <input checked="" 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?<br>If no, describe the inconsistencies<br>_____                                      |

17. Name, title and signature of planning agency staff member completing this section:  
 Name: Kyla Prendergast  
 Title: Senior Environmental Planner  
 Signature: *Kyla Prendergast*  
 Date: 4/26/2023  
 Name of Municipal Planning Agency: City of Pittsburgh Department of City Planning  
 Address 100 Ross St, Suite 202, Pittsburgh, PA 15219  
 Telephone Number: 412-522-6551

**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.

**EXHIBIT J.**

**Sewage Facilities Planning Module – Component 4C –  
County or Joint Health Department Review**

**COUNTY OF**



**ALLEGHENY**

**RICH FITZGERALD**  
COUNTY EXECUTIVE

May 2, 2023

Nika Finkelsteyn, E.I.T  
The Gateway Engineers, Inc.  
100 McMorris Road  
Pittsburgh, PA 15205

**RE: SEWAGE FACILITIES PLANNING MODULE; ALLEGHENY COUNTY  
Reed Roberts Development, City of Pittsburgh**

Dear Ms. Finkelsteyn:

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 April 25, 2023. The project proposes the following:

Project Description:	The proposed Reed Roberts Housing Project (Phases 1A and 1B) involves the construction of two three-bedroom triplexes, 13 three-bedroom townhouses, five two-bedroom townhouses, one 53-unit senior apartment building, and one 46-unit multi-family apartment building. The plan includes a community center, 95 parking spaces, landscaping, semi-permeable pavers, green space, a rain garden, utilities, stormwater facilities, and other residential amenities.
Sewage Flow:	15,150 (Phase 1A) and 13,310 (Phase 1B) GPD = 28,470 GPD total
Conveyance:	Existing 15" VCP at Reed Street and existing 15" VCP at Miller Street, then to the Monongahela River Interceptor at M-05-00, and the ALCOSAN Woods Run Treatment Plant.
Sewer's Owner:	PWSA (collection), ALCOSAN (interceptor)
Sewage Treatment Plant:	ALCOSAN



**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.ALLEGHENYCOUNTY.US/HEALTHDEPARTMENT](http://WWW.ALLEGHENYCOUNTY.US/HEALTHDEPARTMENT)



Ms. Nika Finkelsteyn E. I. T.  
May 2, 2023  
Page 2

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, please contact Drew Grese, Plumbing Program Manager at 412-578-8055.

The ACHD has no objection to the approval of this project. If you have any questions, please call me at 412-578-8388.

Sincerely,



Gina Caliguri  
Environmental Health Administrator II/Compliance Officer  
Water Pollution Control & Solid Waste Management

Enclosure

cc: Mahbuba Iasmin, PA Department of Environmental Protection w/attachment  
Drew Grese, ACHD w/attachment





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## INSTRUCTIONS FOR COMPLETING COMPONENT 4C COUNTY OR JOINT HEALTH DEPARTMENT REVIEW

---

*Remove and recycle these instructions prior to mailing component to the approving agency.*

---

### **Background**

This component, Component 4, is used to obtain the comments of planning agencies and/or health departments having jurisdiction over the project area. It is used in conjunction with other planning module components appropriate to the characteristics of the project proposed.

### **Who Should Complete the Component?**

The component should be completed by any existing municipal planning agency, county planning agency, planning agency with areawide jurisdiction, and/or health department having jurisdiction over the project site. It is divided into sections to allow for convenient use by the appropriate agencies.

The project sponsor must forward copies of this component, along with supporting components and data, to the appropriate planning agency(ies) and health department(s) (if any) having jurisdiction over the development site. These agencies are responsible for responding to the questions in their respective sections of Component 4, as well as providing whatever additional comments they may wish to provide on the project plan. After the agencies have completed their review, the component will be returned to the applicant. The agencies have 60 days in which to provide comments to the applicant. If the agencies fail to comment within this 60 day period, the applicant may proceed to the next stage of the review without the comments. The use of registered mail or certified mail (return receipt requested) by the applicant when forwarding the module package to the agencies will document a date of receipt.

After receipt of the completed Component 4 from the planning agencies, or following expiration of the 60 day period without comments, the applicant must submit the entire component package to the municipality having jurisdiction over the project area for review and action. If approved by the municipality, the proposed plan, along with the municipal action, will be forwarded to the approving agency (Department of Environmental Protection or delegated local agency). The approving agency, in turn, will either approve the proposed plan, return it as incomplete, or disapprove the plan, based upon the information provided.

---

### ***Instructions for Completing Planning Agency and/or Health Department Review Component***

---

#### **Section A. Project Name**

Enter the project name as it appears on the accompanying sewage facilities planning module component (Component 2, 2m, 3, 3s or 3m).

---

#### **Section B. Review Schedule**

Enter the date the package was received by the reviewing agency, and the date that the review was completed.

---

#### **Section C. Agency Review**

1. Answer the yes/no questions and provide any descriptive information necessary on the lines provided. Attach additional sheets, if necessary.
  2. Complete the name, title, and signature block.
- 

#### **Section D. Additional Comments**

The Agency may provide whatever additional comment(s) it deems necessary, as described in the form. Attach additional sheets, if necessary.

**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

Reed Roberts Development

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

1. Date plan received by county or joint county health department 4/25/2023

Agency name Allegheny County Health Department (ACHD)

2. Date review completed by agency 5/2/2023

**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 wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?

If yes, describe \_\_\_\_\_

3. Is there any known groundwater degradation in the area of this proposal?

If yes, describe \_\_\_\_\_

4. The county or joint county health department recommendation concerning this proposed plan is as follows: ACHD recommends approval. Please see attached letter.

5. Name, title and signature of person completing this section:

Name: Gina Caliguri

Title: Environmental Health Administrator II/Compliance Officer

Signature: 

Date: 5/2/2023

Name of County Health Department: Allegheny County Health Department

Address: 3901 Penn Avenue, Building #5, Pittsburgh, PA 15224

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.



EXHIBIT K.

**PNDI Receipt**

## 1. PROJECT INFORMATION

Project Name: **Reed Roberts**

Date of Review: **2/20/2023 05:19:40 PM**

Project Category: **Development, Residential, Subdivision containing more than 2 lots and/or 2 single-family units**

Project Area: **8.63 acres**

County(s): **Allegheny**

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

ZIP Code:

Quadrangle Name(s): **PITTSBURGH EAST**

Watersheds HUC 8: **Lower Monongahela**

Watersheds HUC 12: **Streets Run-Monongahela River**

Decimal Degrees: **40.440238, -79.981728**

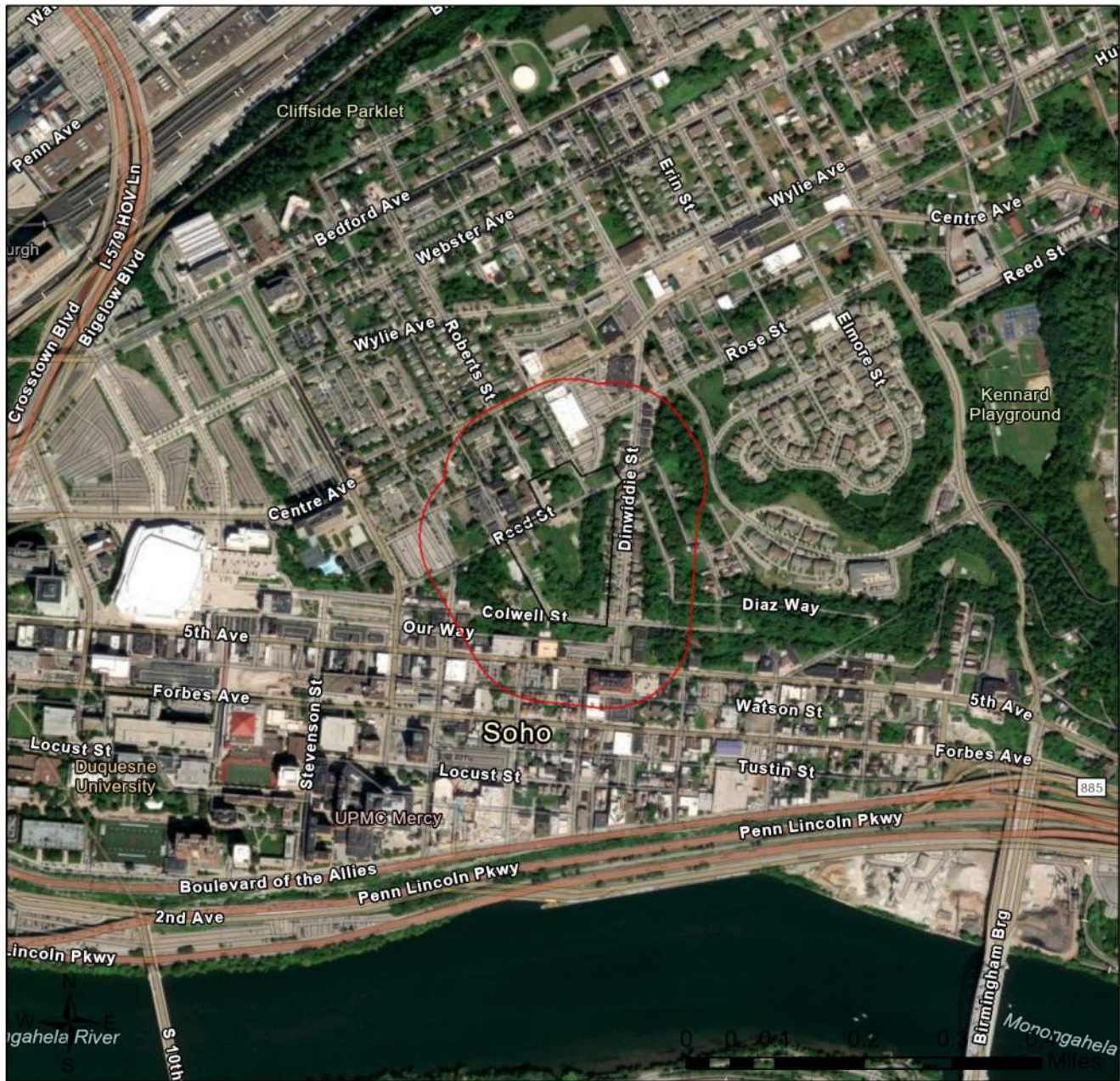
Degrees Minutes Seconds: **40° 26' 24.8568" N, 79° 58' 54.2206" W**



## 2. SEARCH RESULTS

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

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

# Reed Roberts



-  Buffered Project Boundary
-  Project Boundary





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



# Reed Roberts



-  Buffered Project Boundary
-  Project Boundary



Sources: Esri, 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:** The proposed project is in the range of the Indiana bat. Describe how the project will affect bat habitat (forests, woodlots and trees) and indicate what measures will be taken in consideration of this. Round acreages up to the nearest acre (e.g., 0.2 acres = 1 acre).

**Your answer is:** The project will affect 1 to 39 acres of forests, woodlots and trees.

**Q2:** Is tree removal, tree cutting or forest clearing of 40 acres or more necessary to implement all aspects of this project?

**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:

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

#### PA Department of Conservation and Natural Resources

##### RESPONSE:

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

#### PA Fish and Boat Commission

##### RESPONSE:

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

#### U.S. Fish and Wildlife Service

##### RESPONSE:

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

## 4. DEP INFORMATION

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](http://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](mailto: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](mailto: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](mailto:IR1_ESPenn@fws.gov)  
NO Faxes Please

### PA Game Commission

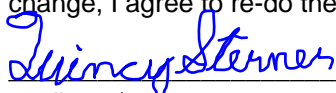
Bureau of Wildlife Management  
Division of Environmental Review  
2001 Elmerton Avenue, Harrisburg, PA 17110-9797  
Email: [RA-PGC\\_PNDI@pa.gov](mailto:RA-PGC_PNDI@pa.gov)  
NO Faxes Please

## 7. PROJECT CONTACT INFORMATION

Name: Quincy R. Sterner  
Company/Business Name: The Gateway Engineers, Inc.  
Address: 100 McMorris Road  
City, State, Zip: Pittsburgh, PA 15205  
Phone: ( 412 ) 498-3432 Fax: ( )  
Email: qsterner@gatewayengineers.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

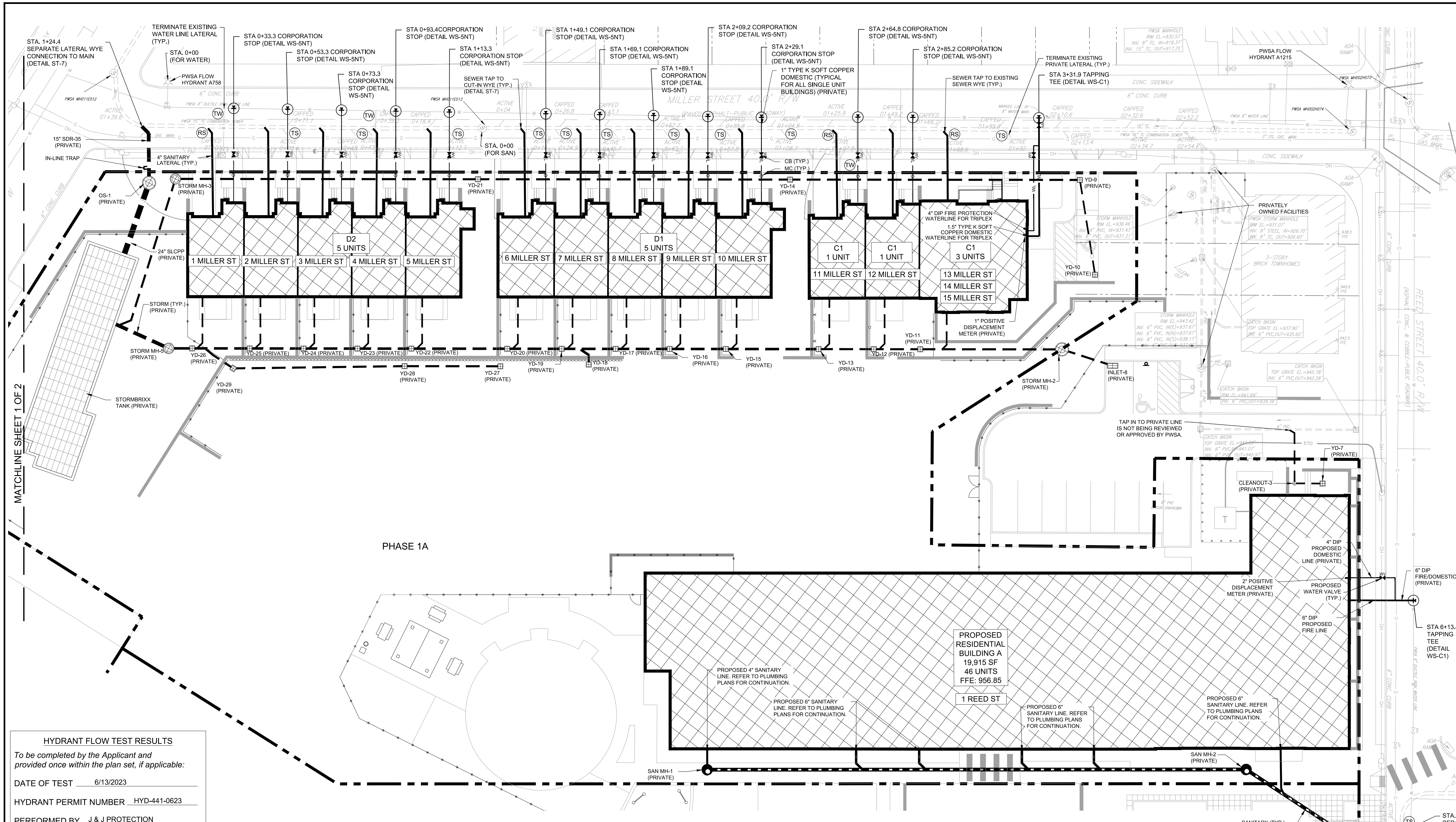
2023-10-11

date

EXHIBIT L.

**Plot Plan**





THE PITTSBURGH WATER & SEWER AUTHORITY APPROVAL BLOCK  
 To be completed by the Applicant and provided on each sheet within the plan set:

- NEW WATER CONNECTION(S)
- NEW SEWER CONNECTION(S)
- REUSE EXISTING WATER CONNECTION(S)
- REUSE EXISTING SEWER CONNECTION(S)
- TERMINATE EXISTING WATER CONNECTION(S)
- TERMINATE EXISTING SEWER CONNECTION(S)
- PRIVATE CONSTRUCTION OF PUBLIC FACILITIES

To be completed by the PWSA:  
 (Required for ALL approvals)

REVIEWER, DEPT. OF ENGINEERING AND CONSTRUCTION

SENIOR PROJECT MANAGER, DEPT. OF ENGINEERING AND CONSTRUCTION

DIRECTOR OF OPERATIONS

(Required for "Private Construction of Public Facilities" ONLY)

DIRECTOR, DEPT. OF ENGINEERING AND CONSTRUCTION

PWSA PROJECT NUMBER

TAP C RECORD NUMBER

The PWSA approval was based on information provided by others under the assumption that this information was accurate and complete. Please refer to the PWSA Developer's Manual for detailed information on the regulations and procedures for obtaining water and sewer service.

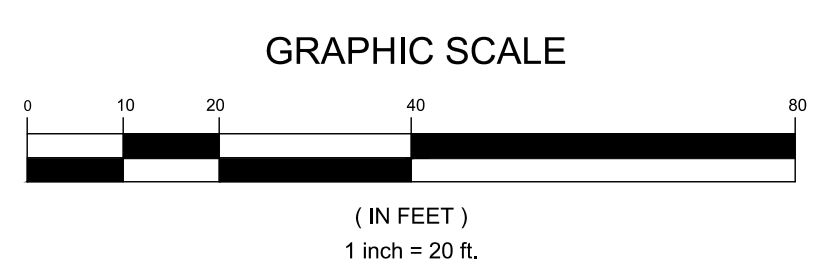
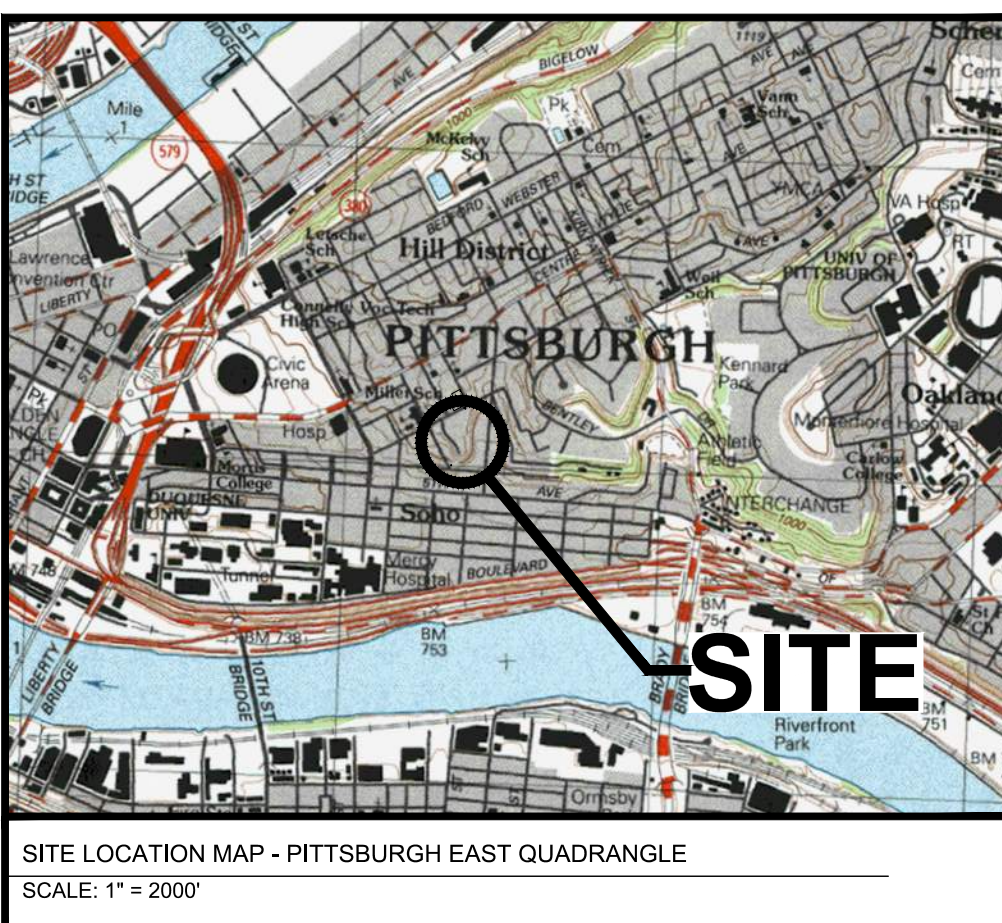
**HYDRANT FLOW TEST RESULTS**  
 To be completed by the Applicant and provided once within the plan set, if applicable:  
 DATE OF TEST 6/13/2023  
 HYDRANT PERMIT NUMBER HYD-441-0623  
 PERFORMED BY J & J PROTECTION

**PRESSURE HYDRANT**  
 HYDRANT NUMBER A758  
 LOCATION CORNER OF COLWELL & MILLER  
 STATIC PRESSURE, PSI 62  
 RESIDUAL PRESSURE, PSI 55

**FLOW HYDRANT**  
 HYDRANT NUMBER A1215  
 LOCATION CORNER OF REED & MILLER  
 FLOW OBSERVED, GPM 1250

**CALCULATIONS \***  
 PROJECTED FLOW AT 20 PSI, GPM 3292.5

\* Per NFPA 291 (Section 4.4.6), the residual pressure needs to achieve a 10% drop from the static pressure to calculate accurate flow projections. Please note that multiple flow hydrants may need to be simultaneously flowed to achieve the 10% drop at the pressure hydrant. In these instances, the flow observed needs to be reported for each flow hydrant.



**PEAK OPERATING WATER DEMANDS**  
 To be completed by the Applicant and provided once within the plan set, if applicable:

METER INFORMATION				DOMESTIC SYSTEM		FIRE SYSTEM	
QUANTITY	SIZE	TYPE	USE	FLOW, GPM	PRESSURE, PSI	FLOW, GPM	PRESSURE, PSI
1	8" X 3"	POSITIVE DISPLACEMENT	FIRE	N/A	N/A	510	45
1	2"	POSITIVE DISPLACEMENT	DOMESTIC	115	45	N/A	N/A
1	1"	POSITIVE DISPLACEMENT	DOMESTIC	35	45	N/A	N/A
12	3/4"	ELECTROMAGNETIC	COMBINATION	25	45	190	45

METER SIZE: 5/8", 3/4", 1", 2", 3", 4", 6", 8", 10", 12", 16"  
 METER TYPE: POSITIVE DISPLACEMENT, COMPOUND, ELECTROMAGNETIC, ULTRASONIC, TURBINE  
 METER USE: DOMESTIC, FIRE, COMBINATION

- LEGEND:**
- ▲ - PROPOSED CONCRETE BLOCKING FOR PRESSURE PIPE (REFER TO DETAIL WS-3)
  - W - PROPOSED CURB STOP WITH CURB BOX
  - - PROPOSED METER CROCK
  - (TS) - TERMINATION SEWER LATERAL (DETAIL SLT1)
  - (TW) - TERMINATION WATER LATERAL (DETAIL WS-ST5)
  - (RS) - REUSE SEWER LATERAL (DETAIL ST-6)
  - - PROPOSED STORM
  - - PROPOSED SANITARY
  - - PROPOSED WATERLINE
  - - PROPOSED PROPERTY LINE

**PHASE 1A MILLER ST**

**PEAK DAILY SANITARY FLOW DEMANDS**  
 To be completed by the Applicant and provided once within the plan set, if applicable:

PROJECT FLOW, GPD	15,160
EXISTING FLOW, GPD	0
NET FLOW, GPD	15,160



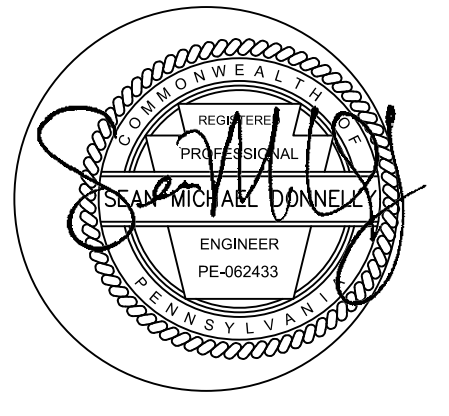
Know what's below.  
 Call before you dig.  
 Serial No. DESIGN - 20212983283, 20212983351, 20212983429

**TREK DEVELOPMENT GROUP**  
**REED ROBERTS - 1A**  
 PLAN PREPARER: THE GATEWAY ENGINEERS, INC. (CONTACT: SEAN DONNELLY)  
 412-921-4030 SDONNELLY@GATEWAYENGINEERS.COM

**WATER AND SEWER TAP CONNECTION AND TAP TERMINATION PLANS**

**REED ST/MILLER ST, PITTSBURGH, PA 15219 WARD 3**

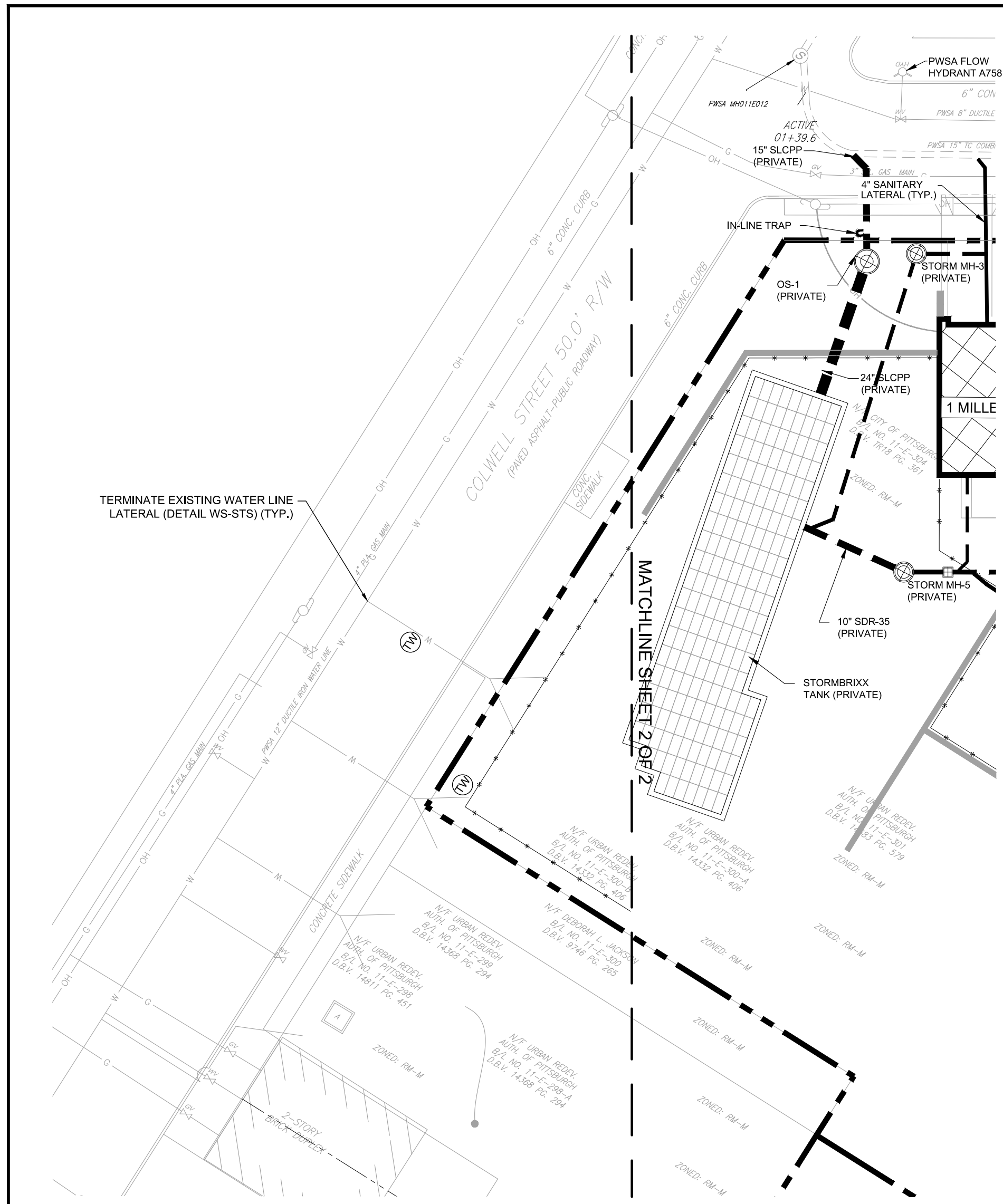
SCALE: 1" = 20' SHEET NO. 1 OF 5 ACCESSION NO. CASE NO.



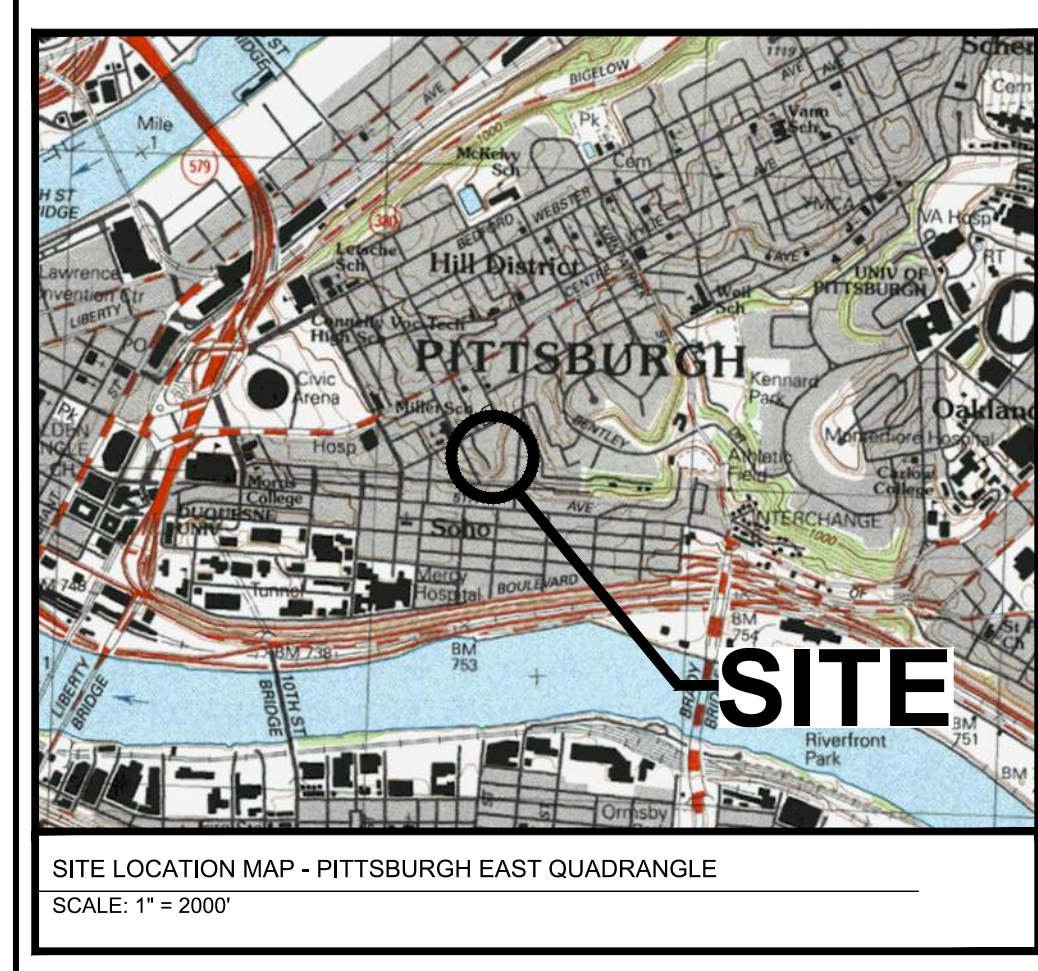
Path & File Name: C:\projects\1700017757\_Druidville\_Sheet\007\_Reed Robert\DWG\02\_Sheet\PWSA\_Tap in plan.dwg  
 Plot Date: 10/02/2023 2:02 PM Quincy R. Steiner, E.I.T.  
 Save Date: 09/12/2023 1:23 PM  
 14.02







- LEGEND:**
- ▲ - PROPOSED CONCRETE BLOCKING FOR PRESSURE PIPE (REFER TO DETAIL WS-3)
  - ▼ - PROPOSED CURB STOP WITH CURB BOX
  - - PROPOSED METER CROCK
  - (TS) - TERMINATION SEWER LATERAL (DETAIL SLT1)
  - (TW) - TERMINATION WATER LATERAL (DETAIL WS-ST5)
  - (RS) - REUSE SEWER LATERAL (DETAIL ST-6)
  - - PROPOSED STORM
  - - PROPOSED SANITARY
  - - PROPOSED WATERLINE
  - - PROPOSED PROPERTY LINE



**APARTMENT BLDG**

**SPRINKLER SYSTEM DESIGN INFORMATION**  
*To be completed by the Applicant and provided once within the plan set, if applicable:*

ADDRESS(ES): 1738 REED STREET  
 DESIGNED BY: CONTRACTOR TO BE SELECTED

**TYPE OF SYSTEM (Check one)**

\_\_\_ 13D  13  
 \_\_\_ 13R \_\_\_ OTHER: \_\_\_\_\_

**SYSTEM CONFIGURATION (Check one)**

STAND-ALONE SPRINKLER SYSTEM  
 \_\_\_ MULTI-PURPOSE SPRINKLER SYSTEM

**HOSE DEMANDS (N/A for 13D systems)**

INSIDE HOSE DEMAND, GPM 100  
 OUTSIDE HOSE DEMAND, GPM 150

**FIRE PUMP (Check one)**

\_\_\_ NO, NOT NEEDED  
 YES, LOWEST PERMISSIBLE  
 SUCTION PRESSURE = 30 PSI \*

\* For fire pump installations, the hydrant flow test shall be required to achieve a 10% drop from the static pressure to the residual pressure.

**TOWNHOME UNITS**

**SPRINKLER SYSTEM DESIGN INFORMATION**  
*To be completed by the Applicant and provided once within the plan set, if applicable:*

ADDRESS(ES): 210, 212, 214, 218, 222, 228, 232, 236, 240, 244, 250, AND 254 MILLER STREET  
 DESIGNED BY: CONTRACTOR TO BE SELECTED

**TYPE OF SYSTEM (Check one)**

13D \_\_\_ 13  
 \_\_\_ 13R \_\_\_ OTHER: \_\_\_\_\_

**SYSTEM CONFIGURATION (Check one)**

STAND-ALONE SPRINKLER SYSTEM  
 \_\_\_ MULTI-PURPOSE SPRINKLER SYSTEM

**HOSE DEMANDS (N/A for 13D systems)**

INSIDE HOSE DEMAND, GPM N/A  
 OUTSIDE HOSE DEMAND, GPM N/A

**FIRE PUMP (Check one)**

NO, NOT NEEDED  
 \_\_\_ YES, LOWEST PERMISSIBLE  
 SUCTION PRESSURE = \_\_\_ PSI \*

\* For fire pump installations, the hydrant flow test shall be required to achieve a 10% drop from the static pressure to the residual pressure.

**TRIPLEX**

**SPRINKLER SYSTEM DESIGN INFORMATION**  
*To be completed by the Applicant and provided once within the plan set, if applicable:*

ADDRESS(ES): 256, 258, AND 262 MILLER STREET  
 DESIGNED BY: CONTRACTOR TO BE SELECTED

**TYPE OF SYSTEM (Check one)**

13D \_\_\_ 13  
 \_\_\_ 13R \_\_\_ OTHER: \_\_\_\_\_

**SYSTEM CONFIGURATION (Check one)**

STAND-ALONE SPRINKLER SYSTEM  
 \_\_\_ MULTI-PURPOSE SPRINKLER SYSTEM

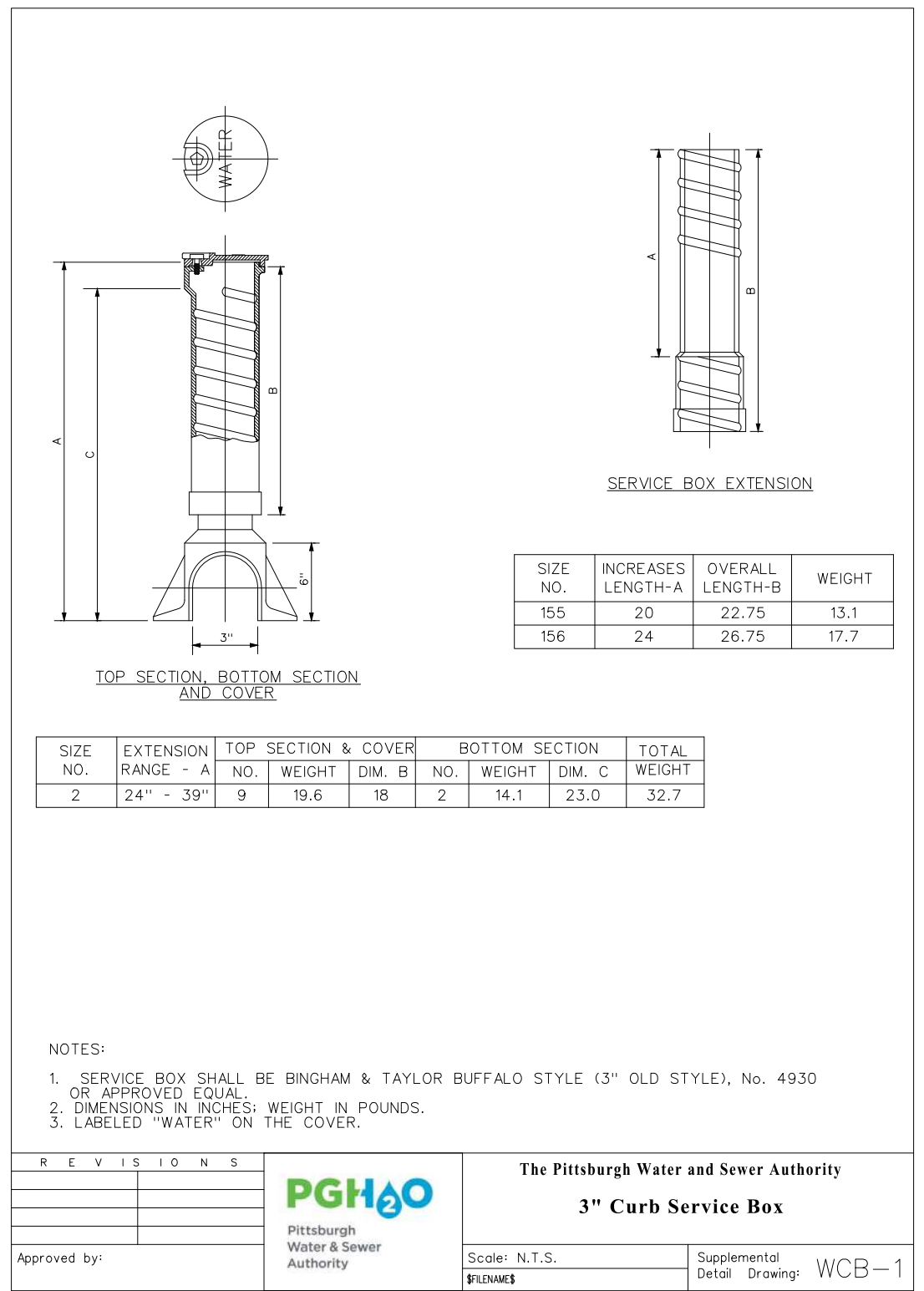
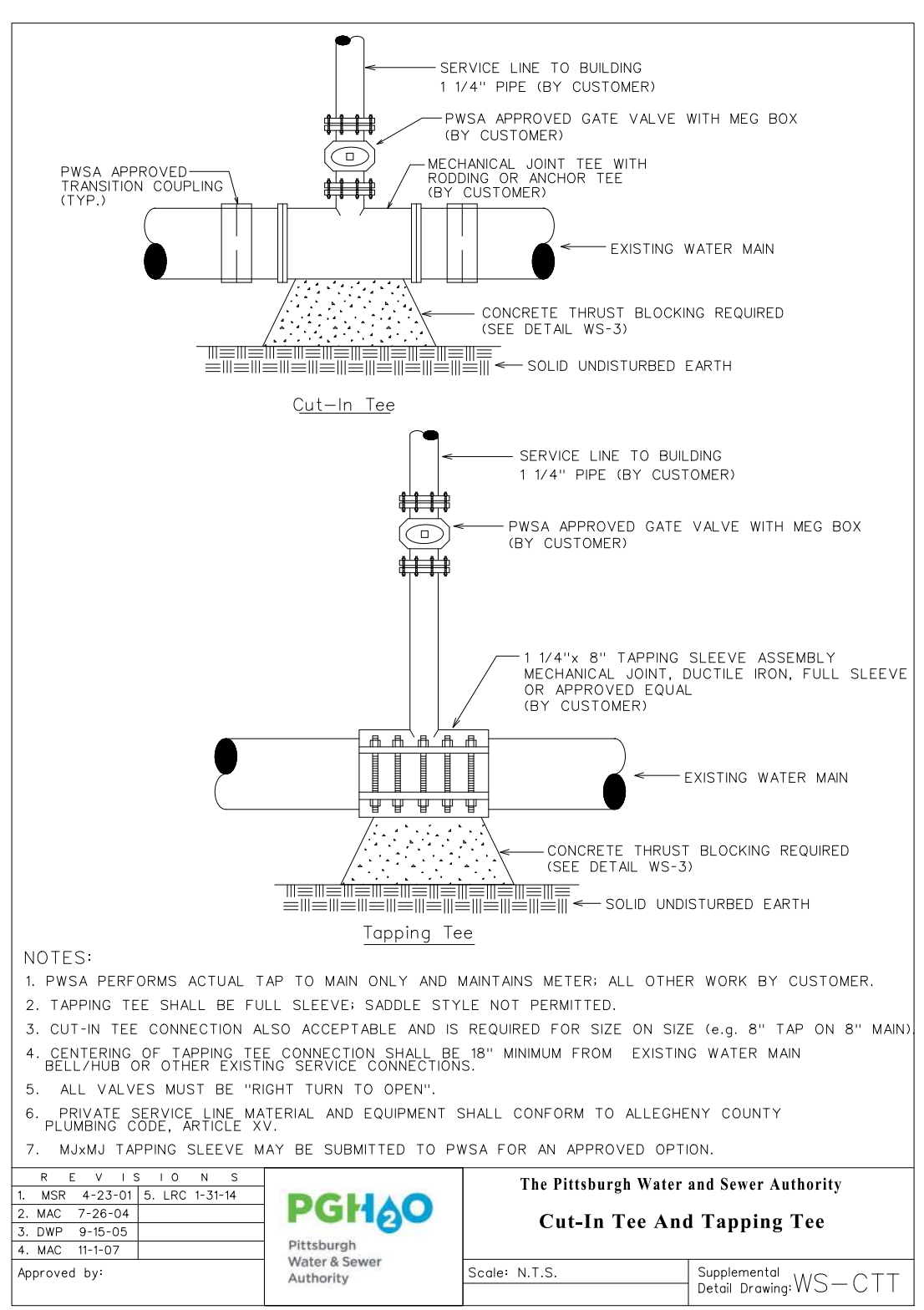
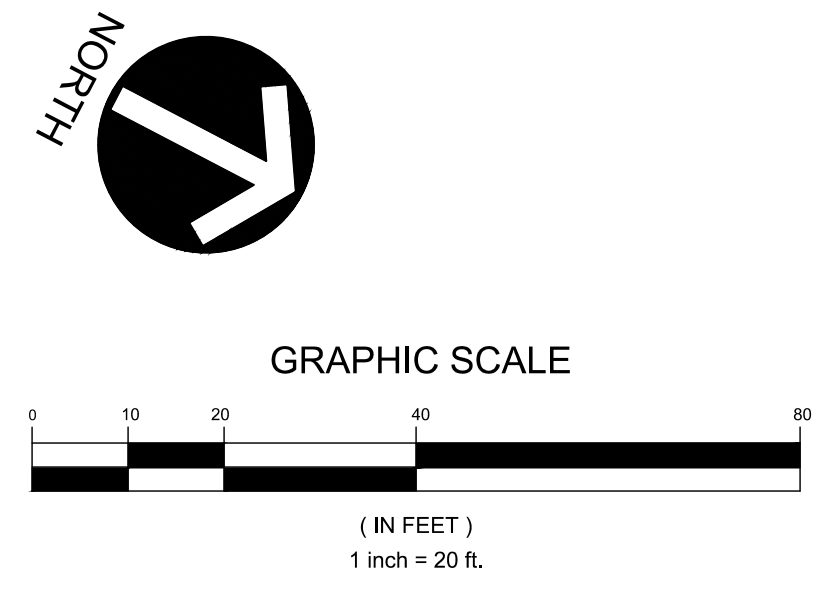
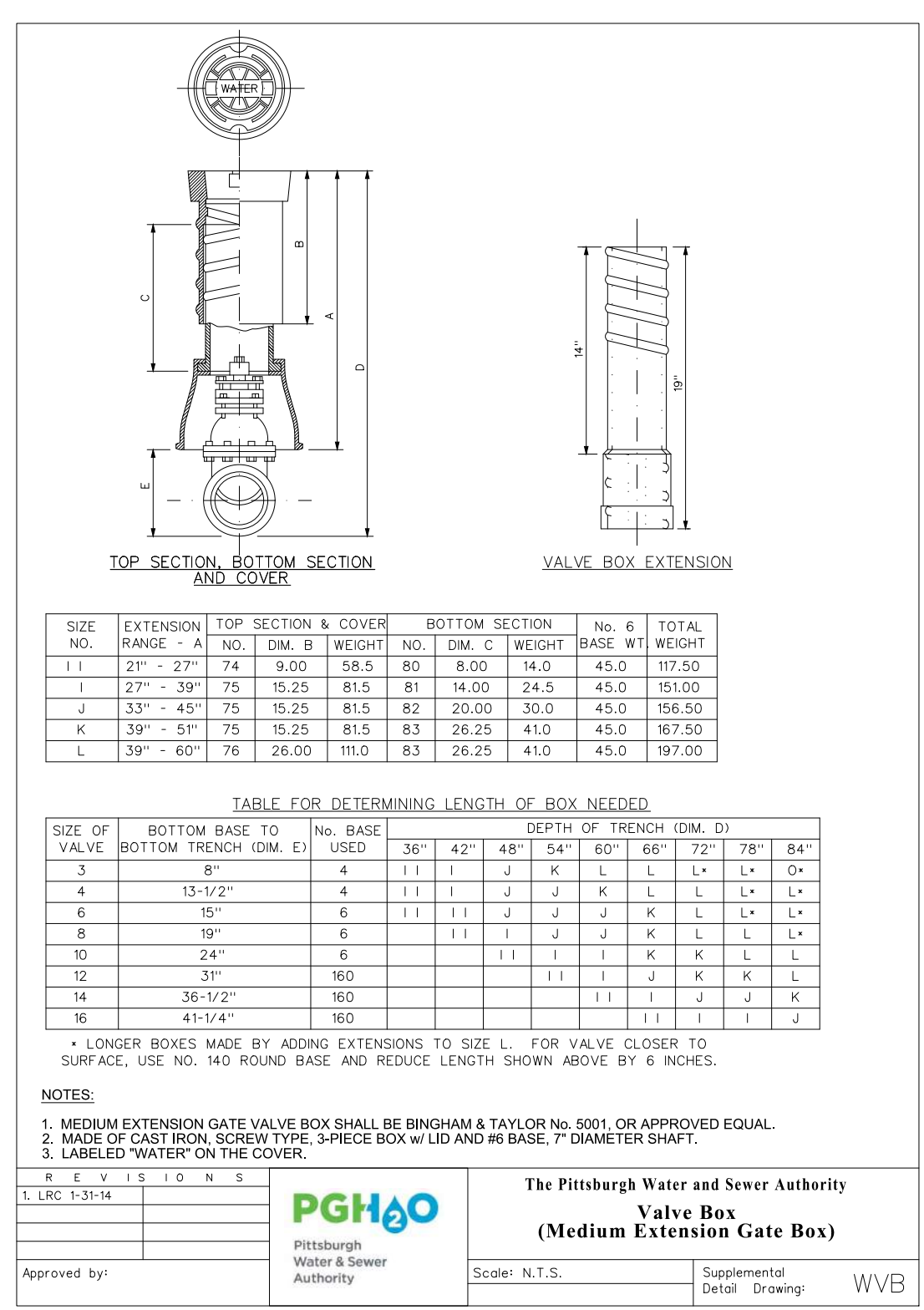
**HOSE DEMANDS (N/A for 13D systems)**

INSIDE HOSE DEMAND, GPM N/A  
 OUTSIDE HOSE DEMAND, GPM N/A

**FIRE PUMP (Check one)**

NO, NOT NEEDED  
 \_\_\_ YES, LOWEST PERMISSIBLE  
 SUCTION PRESSURE = \_\_\_ PSI \*

\* For fire pump installations, the hydrant flow test shall be required to achieve a 10% drop from the static pressure to the residual pressure.



**THE PITTSBURGH WATER & SEWER AUTHORITY APPROVAL BLOCK**  
*To be completed by the Applicant and provided on each sheet within the plan set:*

(Check all that apply)

NEW WATER CONNECTION(S)  
 NEW SEWER CONNECTION(S)  
 REUSE EXISTING WATER CONNECTION(S)  
 REUSE EXISTING SEWER CONNECTION(S)  
 TERMINATE EXISTING WATER CONNECTION(S)  
 TERMINATE EXISTING SEWER CONNECTION(S)  
 PRIVATE CONSTRUCTION OF PUBLIC FACILITIES

*To be completed by the PWSA:*  
 (Required for ALL approvals)

REVIEWER, DEPT. OF ENGINEERING AND CONSTRUCTION

SENIOR PROJECT MANAGER, DEPT. OF ENGINEERING AND CONSTRUCTION

DIRECTOR OF OPERATIONS

(Required for "Private Construction of Public Facilities" ONLY)

DIRECTOR, DEPT. OF ENGINEERING AND CONSTRUCTION

PWSA PROJECT NUMBER \_\_\_\_\_

TAP C RECORD NUMBER \_\_\_\_\_

The PWSA approval was based on information provided by others under the assumption that this information was accurate and complete. Please refer to the PWSA Developer's Manual for detailed information on the regulations and procedures for obtaining water and sewer service.



**Know what's below.**  
**Call before you dig.**  
 Serial No. DESIGN - 20212983283,  
 20212983351,  
 20212983429

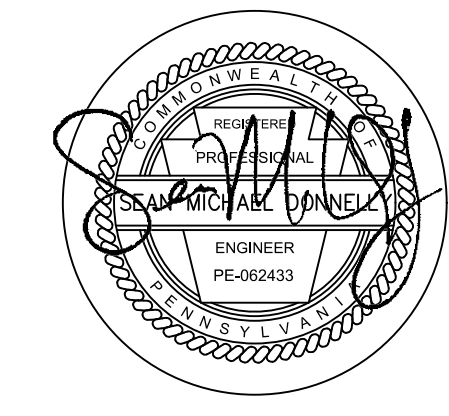
**TREK DEVELOPMENT GROUP**  
**REED ROBERTS - 1A**

PLAN PREPARER: THE GATEWAY ENGINEERS, INC. (CONTACT: SEAN DONNELLY)  
 412-921-4030 SDONNELLY@GATEWAYENGINEERS.COM

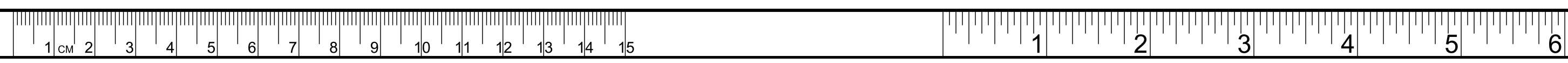
**WATER AND SEWER TAP CONNECTION AND TAP TERMINATION PLANS**

**REED ST/MILLER ST, PITTSBURGH, PA 15219 WARD 3**

SCALE: 1" = 20' SHEET NO. 2 OF 5 ACCESSION NO. \_\_\_\_\_  
 DATE: 03/2023 CASE NO. \_\_\_\_\_



Path & File Name: C:\projects\170001\1757 Drawings\Sheet\007 Reed Roberts\Drawings\007 Reed Roberts\USA\_Tap\_in\_planning.dwg  
 Plot Date: 10/10/2023 2:02 PM Quincy R. Steiner, E.I.T.  
 Save Date: 09/12/2023 1:23 PM





**THE PITTSBURGH WATER & SEWER AUTHORITY APPROVAL BLOCK**

To be completed by the Applicant and provided on each sheet within the plan set:

- (Check all that apply)
- NEW WATER CONNECTION(S)
  - NEW SEWER CONNECTION(S)
  - REUSE EXISTING WATER CONNECTION(S)
  - REUSE EXISTING SEWER CONNECTION(S)
  - TERMINATE EXISTING WATER CONNECTION(S)
  - TERMINATE EXISTING SEWER CONNECTION(S)
  - PRIVATE CONSTRUCTION OF PUBLIC FACILITIES

To be completed by the PWSA:

(Required for ALL approvals)

REVIEWER, DEPT. OF ENGINEERING AND CONSTRUCTION

SENIOR PROJECT MANAGER, DEPT. OF ENGINEERING AND CONSTRUCTION

DIRECTOR OF OPERATIONS

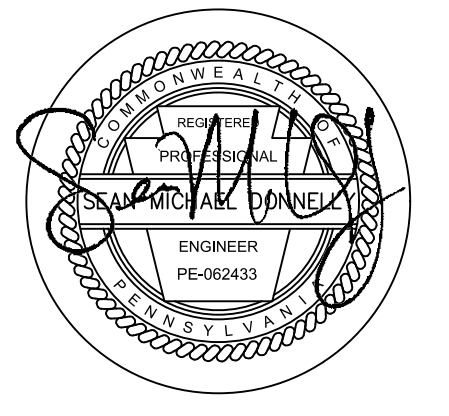
(Required for "Private Construction of Public Facilities" ONLY)

DIRECTOR, DEPT. OF ENGINEERING AND CONSTRUCTION

PWSA PROJECT NUMBER \_\_\_\_\_

TAP C RECORD NUMBER \_\_\_\_\_

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ENGINEER



Know what's below.  
Call before you dig.

Serial No. DESIGN -  
20212983283,  
20212983351,  
20212983429

**TREK DEVELOPMENT GROUP  
REED ROBERTS - 1B**

PLAN PREPARER: THE GATEWAY ENGINEERS, INC. (CONTACT: SEAN DONNELLY)  
412-921-4030 SDONNELLY@GATEWAYENGINEERS.COM

**WATER AND SEWER TAP CONNECTION  
AND TAP TERMINATION PLANS**

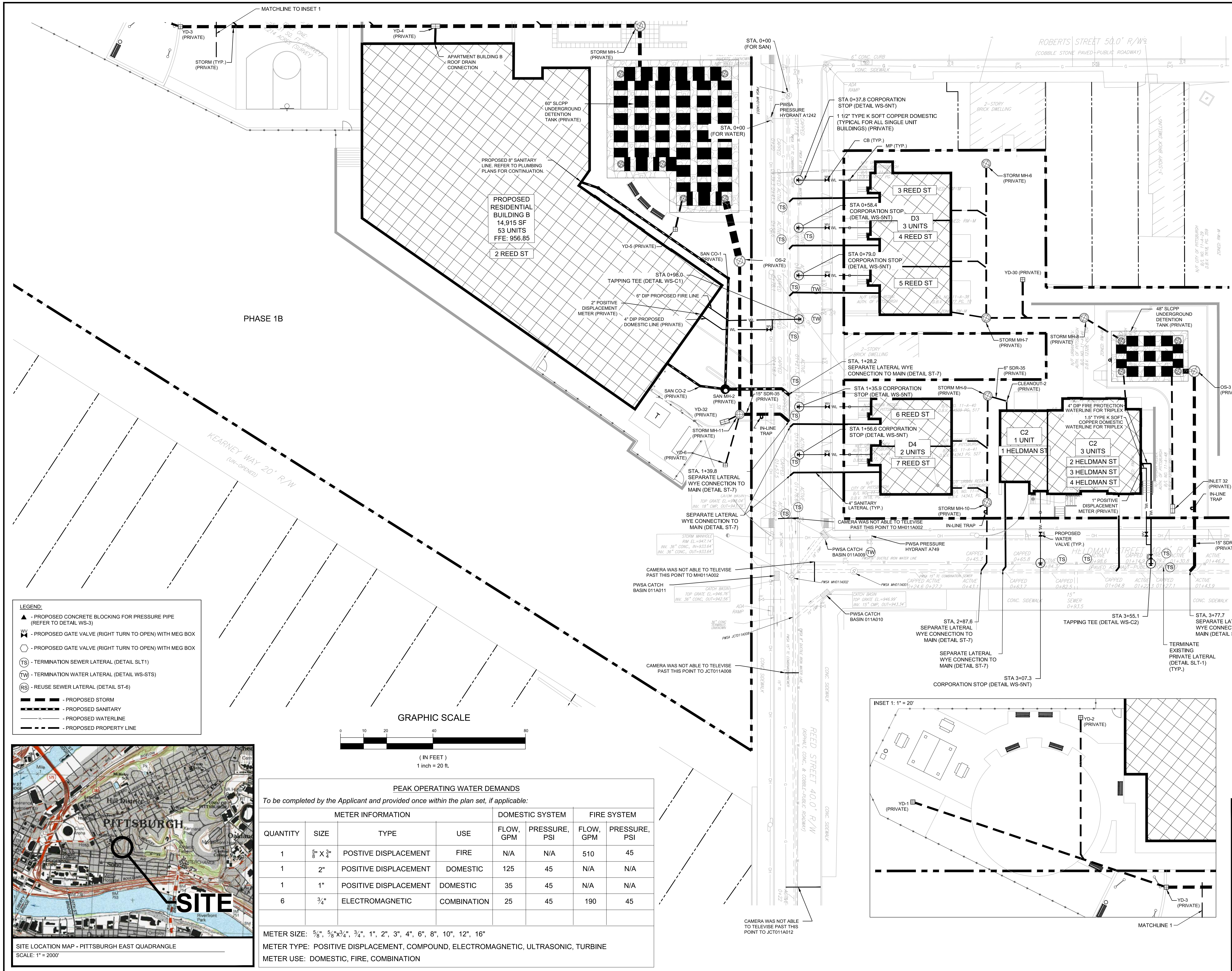
REED ST/MILLER ST, PITTSBURGH, PA 15219  
WARD 3

SCALE: 1" = 20'  
DATE: 03/2023

SHEET NO.  
1 OF 3

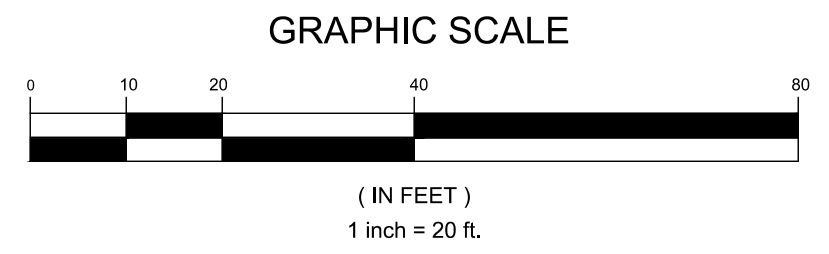
ACCESSION NO.  
CASE NO.

C-17757-0007 DWG. NO.



**LEGEND:**

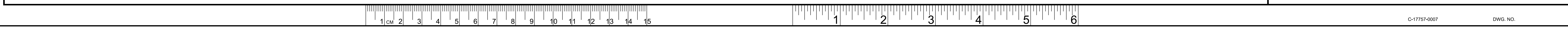
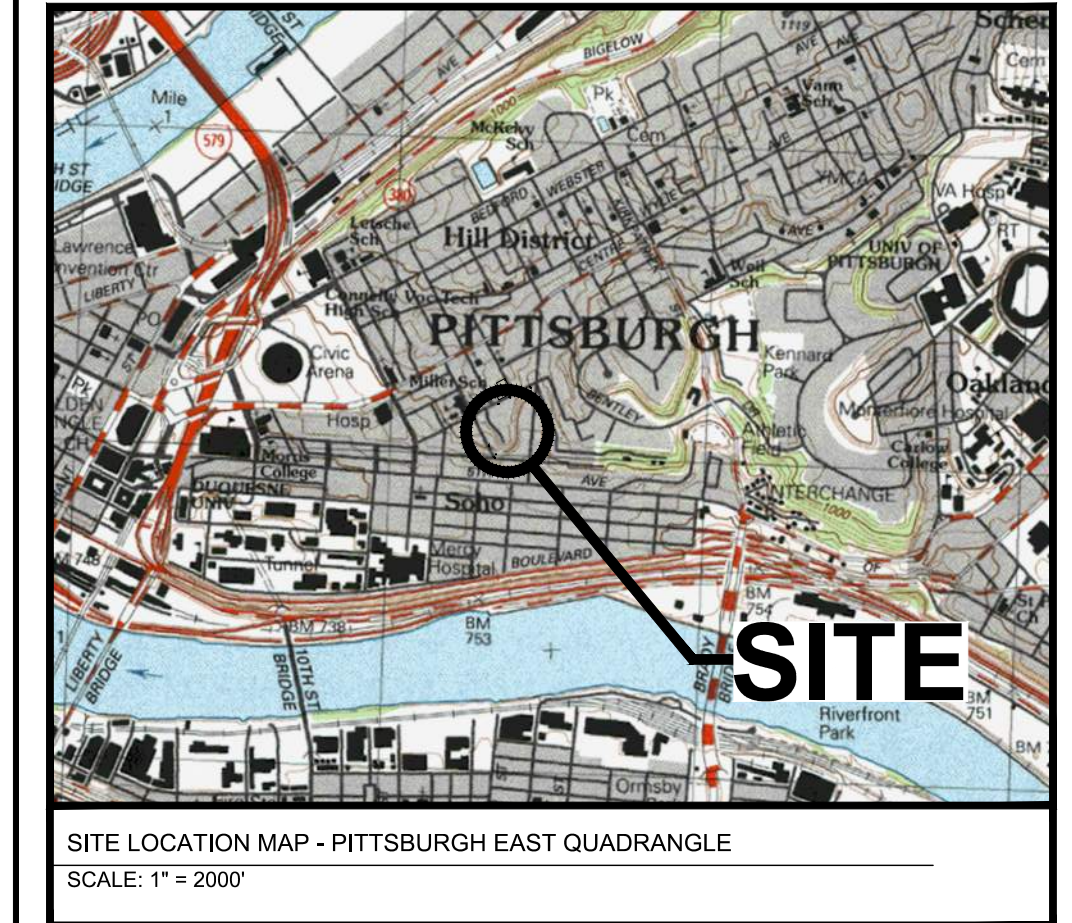
- ▲ - PROPOSED CONCRETE BLOCKING FOR PRESSURE PIPE (REFER TO DETAIL WS-3)
- WV - PROPOSED GATE VALVE (RIGHT TURN TO OPEN) WITH MEG BOX
- - PROPOSED GATE VALVE (RIGHT TURN TO OPEN) WITH MEG BOX
- (TS) - TERMINATION SEWER LATERAL (DETAIL SLT-1)
- (TW) - TERMINATION WATER LATERAL (DETAIL WS-ST5)
- (RS) - REUSE SEWER LATERAL (DETAIL ST-6)
- - PROPOSED STORM
- - PROPOSED SANITARY
- - PROPOSED WATERLINE
- - PROPOSED PROPERTY LINE



**PEAK OPERATING WATER DEMANDS**  
To be completed by the Applicant and provided once within the plan set, if applicable:

QUANTITY	SIZE	METER INFORMATION	USE	DOMESTIC SYSTEM		FIRE SYSTEM	
				FLOW, GPM	PRESSURE, PSI	FLOW, GPM	PRESSURE, PSI
1	8" X 3/4"	POSITIVE DISPLACEMENT	FIRE	N/A	N/A	510	45
1	2"	POSITIVE DISPLACEMENT	DOMESTIC	125	45	N/A	N/A
1	1"	POSITIVE DISPLACEMENT	DOMESTIC	35	45	N/A	N/A
6	3/4"	ELECTROMAGNETIC	COMBINATION	25	45	190	45

METER SIZE: 5/8", 3/4", 1", 2", 3", 4", 6", 8", 10", 12", 16"  
METER TYPE: POSITIVE DISPLACEMENT, COMPOUND, ELECTROMAGNETIC, ULTRASONIC, TURBINE  
METER USE: DOMESTIC, FIRE, COMBINATION



Date: 03/2023 10:00:00 AM  
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