



Allies & Ross
Management and Development Corporation
200 Ross Street
Pittsburgh, PA 15219

412-456-5000

January 26, 2023

Allies & Ross Management and Development Corporation

IFB #2023-39

Northview Midrise Underground Water Storage Tank

ADDENDUM NO. #1

This addendum issued January 19, 2023 becomes in its entirety a part of the Invitation for Bid IFB #2023-39 as is fully set forth herein:

Item 1: Q: There are some drawings for a 50k f/g u/f water tank in the Civil and Fire Protection drawings. However, I did not see a spec section for this tank. Do you happen to know if there is one or might be coming out in an addendum?

A: Attached is the Specification Section 33 16 00 Storage Tanks, for the Water Tank as well as the Specification Table of Contents to include this section.

Item 2: Q: The Storage tank work was included in our bid for IFB #2022-37 for 4 Prime Contractors for Northview Midrise, so I am curious as to why this is being bid after the fact.

A: Bureau of Fire, City of Pittsburgh required the originally proposed 20,000-gallon tank to be replaced with the 50,000-gallon tank included in the IFB and required a change in the way the firefighters would access the water in the tank. The 20,000-gallon tank will be deleted from the scope of IFB #2022-37. The selected contractor for IFB #2023-39 will need to coordinate with the selected four prime contractors for IFB #2022-37 to execute the work related to the new 50,000-gallon tank and associated vault, piping, and valving

Item 3: The meter vault and water lines to the meter vault and storage tank have been relocated. Dimensional information for the meter vault has also been include along with minor revisions as noted as "Rev. 17". Attached are the revised sheets, C300, C400, C500, C552, C553, C554. C600. Please see Attachment A – Specifications Table of Contents and Section 33 16 00 and Attachment B – Civil Drawings for the aforementioned information.

Item 4: The Allies & Ross Management and Development Corporation will **only be accepting physical proposals dropped off in person from 8:00 AM until the closing time of 9:00 AM on February 9, 2023** in the lobby of 100 Ross St. Pittsburgh, PA 15219. Proposals may still be submitted electronically:

<https://www.dropbox.com/request/wWhVn8RP8Nr4rcHgZxOL> and may still be mailed via USPS at which time they will be Time and Date Stamped at 100 Ross Street 2nd Floor, Suite 200, Pittsburgh, PA 15219. All proposals must be received at the above address no later than February, 9 2023 at 9:00 a.m., regardless of the selected delivery mechanism.

END OF ADDENDUM NO. #1

Kim Detrick

Kim Detrick (Jan 26, 2023 14:34 EST)

Mr. Kim Detrick
Agent

Jan 26, 2023

Date

Attachment A – Specifications Table of Contents and Section 33 16 00

Allies & Ross Management and Development Corporation
IFB #2023-39

Northview Midrise Underground Water Storage Tank

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00 26 00	PROCUREMENT SUBSTITUTION PROCEDURES
00 31 32	GEOTECHNICAL DATA
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00 06 00	PROJECT FORMS INDLUDING A201

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SECTION 33 16 00 - STORAGE TANKS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Underground Water Tanks:
 - a. Tank installations in the following locations:
 - 1) United States.
 - b. For the following applications:
 - 1) Fire Protection Standby Water Storage.
- B. Related Sections
1. Section 31 23 16 - Excavation
 2. Section 32 13 13 – Concrete
 3. Section 31 05 16 – Aggregates for Earthwork

1.2 REFERENCES

- A. Underground Water Tanks in the United States:
1. American Concrete Institute (ACI) standard ACI 318, Building Code Requirements for Structural Concrete.
 2. ANSI/AWWA D120 - Thermosetting Fiberglass-Reinforced Plastic Tanks.
 3. NFPA 22: Standard for Water Tanks for Private Fire Protection.
 4. NFPA 1142: Standard for Water Supplies for Suburban and Rural Fire Fighting.
 5. Tank manufacturer shall be recognized by Underwriters Laboratories as a manufacturer of tanks listed to the UL-1316 standard.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300 - Administrative Requirements.
- B. Product Data: Submit manufacturer's data sheets on each product to be used, including, but not limited to, the following:
1. Preparation instructions and recommendations.
 2. Storage and handling requirements and recommendations.
 3. Installation manual and operating guidelines.
- C. Shop Drawings: Tank manufacturer shall submit the following for review and approval prior to fabrication of the tanks:
1. Detailed shop drawings of each tank complete with all accessories supplied by the

manufacturer.

2. Detailed shipping, handling and installation instructions.

1.4 QUALITY ASSURANCE

- A. Tank installations in the United States:
 1. Regulatory Requirements: Comply with applicable requirements of the laws, codes, ordinances, and regulations of Federal, State, and local authorities having jurisdiction.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. General: Comply with tank manufacturer's Installation and Operating Guidelines recommendations for delivery, storage, and tank handling.

1.6 WARRANTY

- A. Warranty: Provide manufacturer's standard limited warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

- A. Tank installations in the United States:
 1. Basis of Design: Xerxes Corporation, which is located at: 7901 Xerxes Ave. S.; Minneapolis, MN 55431; Tel: 952-887-1890; Fax: 952-887-1882; Email:info@xerxes.com; Web:www.xerxes.com
- B. Substitutions: Only permitted with approval from Engineer.
- C. Requests for substitutions will be considered in accordance with provisions of Section 00 26 00 – Procurement Substitution Procedures.

2.2 UNDERGROUND WATER TANKS

- A. Tank Design - Fiberglass reinforced plastic (FRP) tanks:
 1. The tank size, fittings and accessories shall be as shown on the drawings.
 2. Tank shall be manufactured with structural ribs which are fabricated as in integral part of the tank wall.
 3. Tank shall be manufactured with a laminate consisting of resin and glass fiber reinforcement only. No sand/silica fillers or resin extenders shall be used.
 4. Tank shall be vented to atmospheric pressure.
 5. Tank shall be capable of handling liquids with specific gravity up to 1.1
 6. Tank shall be compatible with liquids identified in the manufacturer's standard limited warranty.
- B. Loading Conditions - Tank shall meet the following design criteria:

1. Internal Load - Tank shall be designed to withstand a 5-psig (35 kPa) air-pressure test with a 5:1 safety factor.
 2. Surface Loads - Tank shall be designed to withstand surface H-20 and HS-20 axle loads for pavement applications when properly installed according to manufacturer's current Installation Manual and Operating Guidelines.
 3. External Hydrostatic Pressure - Tank shall be designed for 7 feet (2.1 m) of overburden over the top of the tank, the hole fully flooded, and a safety factor of 5:1 against general buckling.
- C. Fire Protection Standby Water Storage Applications:
1. Governing Standards, as applicable:
 - a. ANSI/AWWA D120 - Thermosetting Fiberglass-Reinforced Plastic Tanks.
 - b. American Concrete Institute (ACI) standard ACI 318, Building Code Requirements for Structural Concrete.
 - c. NFPA 22: Standard for Water Tanks for Private Fire Protection.
 - d. NFPA 1142: Standard for Water Supplies for Suburban and Rural Fire Fighting.
 - e. Tank manufacturer shall be recognized by Underwriters Laboratories (UL) as a manufacturer of tanks listed to the UL-1316 standard.
 2. Tank Design: Single-Wall or Double-Wall vessel as specified and shown on the Drawings.
 - a. Interstitial Space (Double-Wall Tanks only):
 - 1) The interstitial space between the primary and secondary walls shall be constructed with a glass reinforcement material such as Parabeam, which provides a structural bond between the two tank walls, while creating a defined interstice that allows for free flow of liquid.
 - 2) A tank top fitting shall be provided to allow for a monitoring sensor to be installed at the bottom of the interstice.
 - 3) The interstice of the tank shall be designed to withstand 20-psig (138 kPa) pressure.
 3. Tank Accessories - Fire Protection Standby Water Storage Applications:
 - a. Tank Anchoring
 - 1) Anchor straps shall be as supplied by tank manufacturer and designed for a maximum load of 25,000 lbs (11340 kg).
 - 2) Galvanized turnbuckles shall be supplied by the tank manufacturer.

- 3) Prefabricated concrete anchors shall be supplied by the tank manufacturer, designed to the ACI 318 standard, manufactured with 4,000 psi concrete and shall have adjustable anchor points.
- b. Access Openings:
- 1) All access openings shall have a diameter of 24 inches or 30 inches, complete with riser, lid and necessary hardware.
- c. Attached Access Risers:
- 1) Attached access risers shall be PVC or FRP as supplied by tank manufacturer.
 - 2) Attached access risers shall be 24-inch or 30-inch-diameter
 - 3) Access risers shall be attached to access openings during installation utilizing adhesive or FRP bonding kits as supplied by the tank manufacturer.
- d. Piping and Fittings:
- 1) Tank shall be equipped with factory-installed threaded fittings, or pipe stubs.
 - 2) PVC piping shall at a minimum meet the requirements of ANSI Schedule 40.
 - 3) All flanged nozzles shall be flanged and flat-faced, and conform to Class 150 bolting patterns as specified in ANSI/ASME/ B16.5.
 - 4) Carbon steel and stainless steel NPT fittings shall withstand a minimum of 150 foot-pounds (203 NM) of torque and 1,000 foot-pounds (1356 NM) of bending, both with a 2:1 safety factor.
- e. Manway Openings:
- 1) The standard manway shall be flanged, 22 inches (559 mm) I.D. and complete with gaskets, bolts and cover.
 - 2) Manway openings shall be designed to withstand 5-psig (35 kPa) test pressure with a 5:1 safety factor.
- f. Ladders:
- 1) Ladders shall be the standard FRP ladder as supplied by tank manufacturer.
- g. Pump Platforms:
- 1) FRP pump platforms shall be supplied by tank manufacturer.

- h. Internal Piping
 - 1) All internal piping shall be supplied by tank manufacturer.
 - 2) All FRP nozzles for fire pump supply shall have an anti-vortex plate factory installed.
- i. Suction/Fill tubes:
 - 1) Vertical draft/fill tubes shall be a minimum of PVC SCH 40 or FRP.
 - 2) Vertical draft /fill tubes shall be factory installed.
 - 3) Vertical draft /fill tubes shall terminate 4 inches (102 mm) above the bottom of tank.
 - 4) Vertical draft tubes shall have anti-vortex plate factory installed.

PART 3 - EXECUTION

3.1 TESTING

- A. Tank shall be tested according to the tank manufacturer's Installation Manual and Operating Guidelines in effect at time of installation.

3.2 INSTALLATION

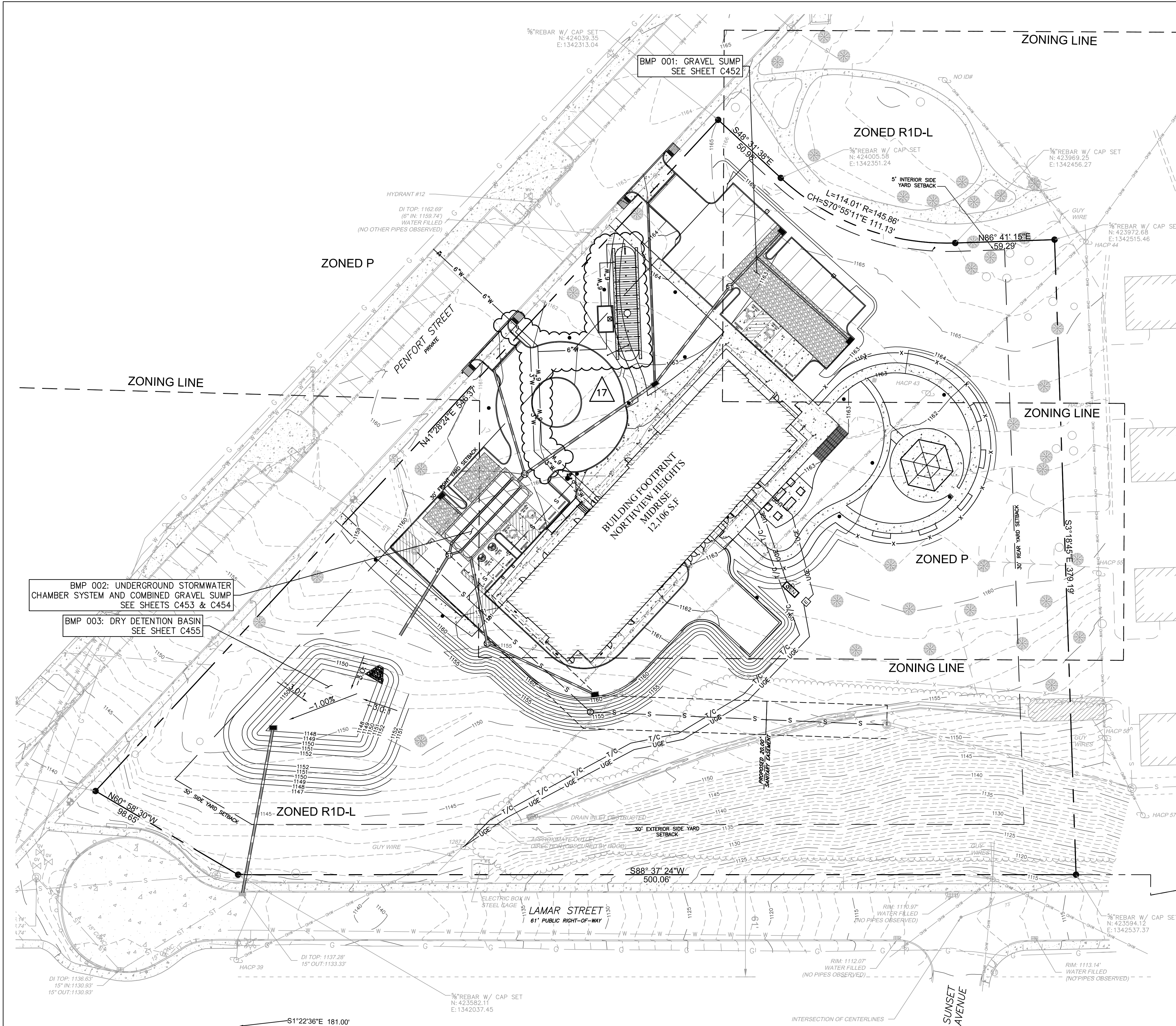
- A. Tank shall be installed according to the tank manufacturer's Installation Manual and Operating Guidelines in effect at time of installation.

END OF SECTION

Attachment B – Civil Drawings

Allies & Ross Management and Development Corporation
IFB #2023-39

Northview Midrise Underground Water Storage Tank



LEGEND

- PROPOSED UNDERGROUND STORMWATER DETENTION FACILITY
- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- PROPOSED STORM MANHOLE
- PROPOSED STORM INLET
- 2.5"W PROPOSED WATER LINE
- PROPOSED SANITARY LINE
- PROPOSED ELECTRICAL TRANSFORMER
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY CLEANOUT
- 1945 EXISTING MINOR/MAJOR CONTOURS
- 1944 PROPOSED MINOR/MAJOR CONTOURS
- 889.09 EXISTING SPOT ELEVATION
- (895.75) 895.25 PROPOSED SPOT ELEVATION

CUT/FILL TABLE

960 CU YD CUT
4,562 CU YD FILL
3,602 CU YD CUT/FILL

- ### NOTES:
- CUT/FILL QUANTITIES DO NOT INCLUDE CALCULATIONS OF MATERIAL DISPLACED BY UNDERGROUND STORMWATER MANAGEMENT SYSTEMS, UTILITIES AND TRENCHING, PAVING AND SUBBASE, BUILDING FOUNDATIONS, ETC. QUANTITY PROVIDED IS THE DIFFERENCE BETWEEN EXISTING GRADE AND FINAL GRADE ONLY.
 - ALL PROPOSED SIDEWALKS, RAMPS, AND CURB RAMPS TO AND FROM R.O.W ON ENTIRE SITE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA, UFAS, AND ANSI STANDARDS. MORE STRINGENT OF THE ACCESSIBILITY REQUIREMENTS ACROSS STANDARDS TO DICTATE CONSTRUCTION PRACTICES.
 - EXISTING SANITARY STRUCTURES TO BE RAISED OR LOWERED TO MEET PROPOSED GRADE.
 - FLUSH CURB TRANSITION TO MATCH EXISTING CURB REVEAL ON PENFORT STREET.

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RED SWING GROUP
 ENGINEERS & SURVEYORS
 4314 OLD WILLIAM PENN HWY
 SUITE 101
 MONROEVILLE, PA 15146
 OFFICE: 724.325.1215



- ### general notes
- Any conflicts in the drawings or between new and existing construction shall be referred to the Architect.
 - Contractor shall verify all dimensions and existing conditions in the field and shall advise Fukui Architects, Pc of any discrepancies between, additions to, deletions from, or alterations to any and all conditions prior to proceeding with any phase of work. Do not scale drawings.
 - All work shall be installed in accordance with applicable codes and regulations.
 - Contractor shall be responsible for the patching, repairing, and preparations of all existing floor, wall, and ceiling surfaces as required to receive scheduled finishes.
 - All items shown on drawings are finished construction assemblies. Contractor shall provide and install all material required for finished assemblies.
 - All reports, plans, specifications, computer files, field data, notices, and other documents and instruments prepared by the Architect as instruments of service shall remain the property of the Architect. The Architect shall retain all common law statutory, and other reserved rights, including the copyright thereto.

- ### revisions
- | | |
|----|--------------------|
| 1 | REVISED 2022/02/09 |
| 2 | REVISED 2022/03/04 |
| 3 | REVISED 2022/03/30 |
| 7 | REVISED 2022/04/29 |
| 17 | REVISED 2023/01/23 |

project title

Owner:
 HACP
 200 Ross Street
 Pittsburgh, PA, 15219

Client:
 Allies & Ross Management and Development Corporation (ARMDC)
 200 Ross Street
 Pittsburgh, PA 15219

Project Location:
 Northview Heights Midrise
 250 Penfort Street
 Pittsburgh, PA 15214

drawing title
OVERALL GRADING PLAN

PA ONE CALL SERIAL No. 20212440872 AS PER CALL FOR MAPS BY RED SWING GROUP SEPTEMBER 1st, 2021

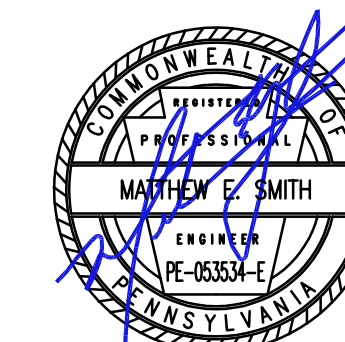
CALL BEFORE YOU DIG!
 PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS NOTICE IN DESIGN STAGE. STOP CALL PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776

scale	As Noted	Sheet No. C300 Project #2040
date	December 10, 2021	
no.	of.	



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seal



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revisions

1	REVISED 2022/02/09
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Northview Heights Midrise
250 Penfort Street
Pittsburgh, PA 15214

drawing title

POST CONSTRUCTION
STORMWATER MANAGEMENT
PLAN

scale	As Noted
date	December 10, 2021
no.	of.

Sheet No.
C400
Project #2040

LEGEND

- LOD PROPOSED LIMIT OF DISTURBANCE
- NPDES EXISTING NPDES BOUNDARY
- PROPOSED GRAVEL SUMP WITH SUBSURFACE INFILTRATION BED
- PROPOSED UNDERGROUND STORMWATER CHAMBER SYSTEM AND COMBINED GRAVEL SUMP
- ST EXISTING STORM PIPE
- PROPOSED TRENCH DRAIN
- PROPOSED STORM PIPE
- ST PROPOSED STORM MANHOLE
- PROPOSED STORM INLET
- 1645, 1644 EXISTING MINOR/MAJOR CONTOURS
- 1159, 1160 PROPOSED MINOR/MAJOR CONTOURS
- 8" ST PROPOSED 8" STORM COLLECTION PIPE
- 6" ST PROPOSED 6" STORM COLLECTION PIPE
- PROPOSED TREES

NOTE: ALL PROPOSED STORM INLETS SHALL HAVE TRASH GUARD INSERTS INSTALLED.

MATERIAL RECYCLING AND DISPOSAL NOTES

MATERIAL RECYCLING AND DISPOSAL NOTES:

1) THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF BUILDING MATERIALS AND CONSTRUCTION WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ. AND 287.1 ET SEQ. NO BUILDING MATERIALS, WASTES, OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED OR DISCHARGED AT THE SITE. THE FOLLOWING DEFINE WHAT SHOULD BE CONSIDERED "CONSTRUCTION WASTE" AND "CLEAN FILL":

A. CONSTRUCTION WASTE - INCLUDES BUT IS NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY.

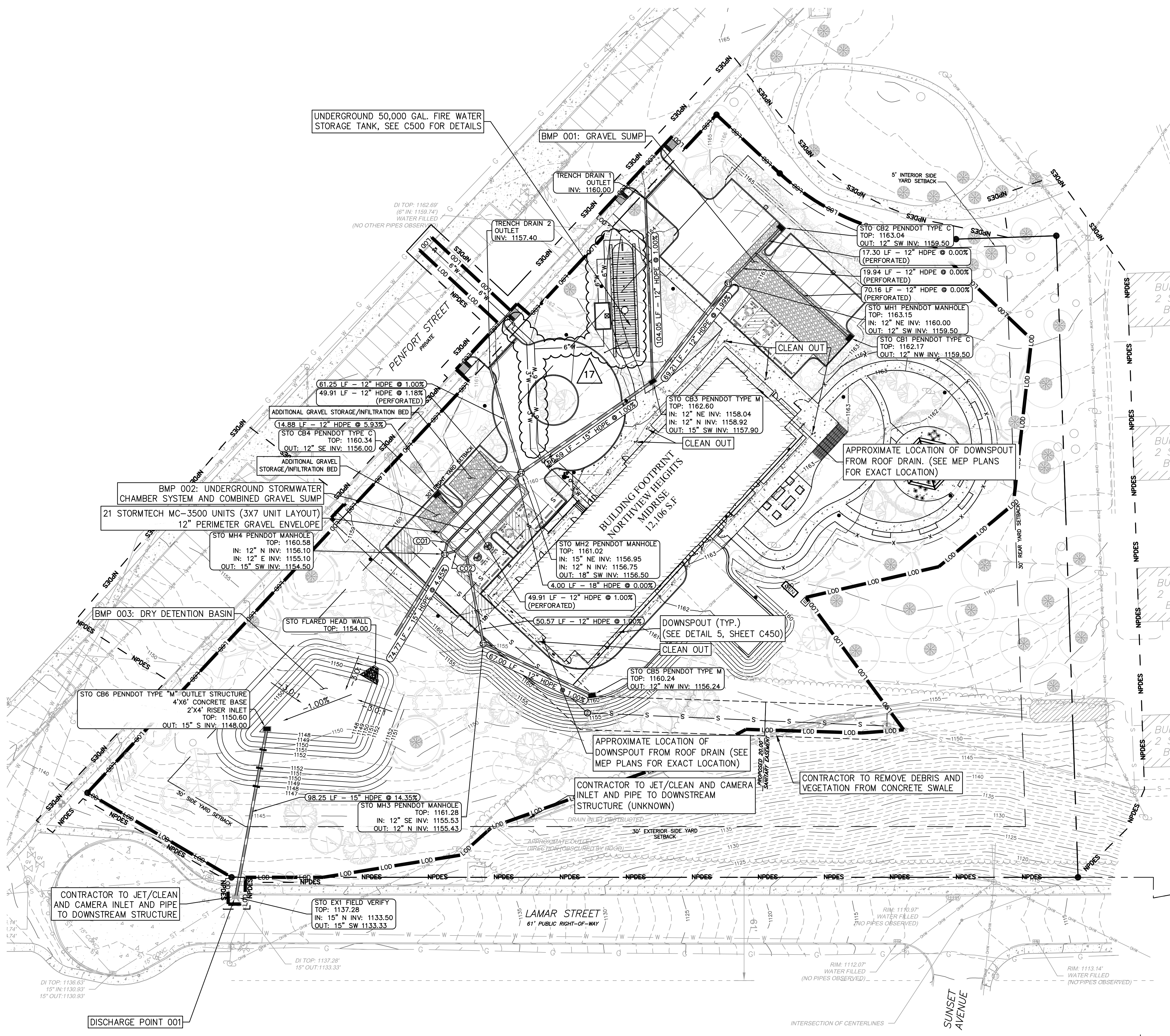
B. CLEAN FILL - UNCONTAMINATED, NON-WATER-SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THIS INCLUDES SOIL, ROCK, STONE DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK, OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. IT DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE SURFACE WATERS UNLESS OTHERWISE AUTHORIZED, MILLED ASPHALT, OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.

2) PARTIES RESPONSIBLE FOR THE EXCAVATION OF SITE MATERIALS OR THE IMPORT OF FILL MATERIALS ARE RESPONSIBLE TO ENSURE THAT "ENVIRONMENTAL DUE DILIGENCE" IN THE DETERMINATION OF "CLEAN FILL MATERIAL" IS EITHER REMOVED FROM THE SITE OR USED AS FILL FOR THE SITE. MATERIAL IDENTIFIED AS HAZARDOUS MUST BE DISPOSED IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL GUIDELINES AND REGULATIONS.

A. ENVIRONMENTAL DUE DILIGENCE - INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF OWNERSHIP AND USE HISTORY OF PROPERTY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.

3) BEFORE DISPOSING OF SOIL OR RECEIVING BORROW FOR THE SITE, THE OPERATOR MUST ASSURE THAT EACH SPOIL OR BORROW AREA HAS AN ESCP APPROVED BY THE LOCAL CONSERVATION DISTRICT OF THE DEP, AND WHICH IS BEING IMPLEMENTED AND MAINTAINED ACCORDING TO CHAPTER 102 REGULATIONS. THE OPERATOR SHALL ALSO NOTIFY THE LOCAL CONSERVATION DISTRICT IN WRITING OF RECEIVING SPOIL AND BORROW AREAS WHEN THEY HAVE BEEN IDENTIFIED.

4) REMOVE DEMOLITION MATERIALS TO A SUITABLE DISPOSAL SITE IN A RESPONSIBLE MANNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF EXCESS MATERIAL OFF-SITE TO AN APPROVED FACILITY (AS PER NOTE 8, AND SEE NOTE 7 FOR THE DEFINITION OF CONSTRUCTION WASTES).



Know what's below.
Call before you dig.
PA ONE CALL SERIAL No. 20212440672 AS PER CALL FOR MAPS BY RED SWING GROUP SEPTEMBER 1st, 2021

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 inch = 30 ft.

CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES
3 WORKING DAYS NOTICE FOR
CONSTRUCTION PHASE AND 10 WORKING
DAYS NOTICE IN DESIGN STAGE.
STOP CALL
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drawing title

UTILITY PLAN

SITE UTILITY NOTES

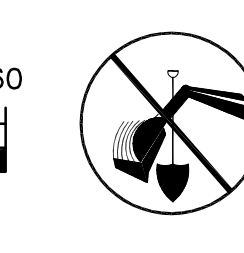
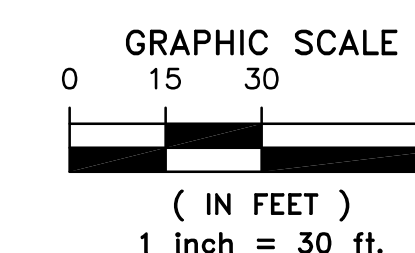
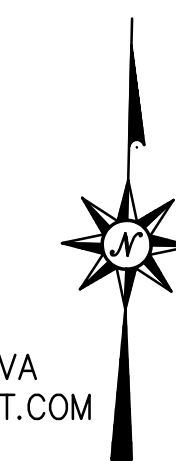
- PROPOSED SANITARY SEWER LATERAL. CONTRACTOR TO COORDINATE WITH SANITARY SEWER SERVICE PROVIDER FOR FIELD CONNECTION TO EXISTING SYSTEM.
- PROPOSED SANITARY CLEANOUT. SEE 3 C550
- PROPOSED WATERLINES TO BE CAPPED 1'-0" OUTSIDE BUILDING (3" TO 2.5" REDUCER. TO BE COORDINATE WITH MEP DRAWINGS.
- PROPOSED UNDERGROUND ELECTRIC. (2) 5" PVC.
- PROPOSED FIRE DEPARTMENT CONNECTION. CONTRACTOR TO COORDINATE WITH FIRE MARSHAL AND ARCHITECT FOR EXACT LOCATION.
- PROPOSED ELECTRICAL TRANSFORMER. (BY DLC)
- PROPOSED 6" WATER SERVICE LINE TO BE SPLIT TO 3" DOMESTIC AND 6" FIRE PROTECTION LINE. COORDINATE WITH WATER SERVICE PROVIDER FOR FIELD CONNECTION TO EXISTING SYSTEM.
- PROPOSED 6" PVC SDR 35 TO 24" SANITARY WYE TO BE INSTALLED AND CAPPED DURING 24" SANITARY MAIN RELOCATION. SEE 2 C550
- PROPOSED TELEPHONE/COMMUNICATIONS CONDITS. (2) 4" PVC.
- PROPOSED ELECTRICAL PULL BOXES. (TYP.) (SEE MEP PLANS)
- PROPOSED GENERATOR. (SEE MEP PLANS)
- PROPOSED UNDERGROUND CONDUITS FOR LIGHTING. (TYP.) (SEE MEP PLANS)
- PROPOSED 6" PVC SDR 35 CAPPED 1'-0" OUTSIDE OF BUILDING.
- PROPOSED ELECTRIC VEHICLE CHARGING PEDESTAL. (SEE MEP PLANS)
- PROPOSED FIRE TANK, SEE EXPANDED VIEW ON SHEET C552
- ASPHALT PAVEMENT EXCAVATION AND REPLACEMENT, SEE 9 C550
- PROPOSED FIRE TANK SERVICE VAULT (TO BE COORDINATED WITH MEP DRAWINGS) SEE 1 C554
- PROPOSED FIRE HYDRANT

LEGEND

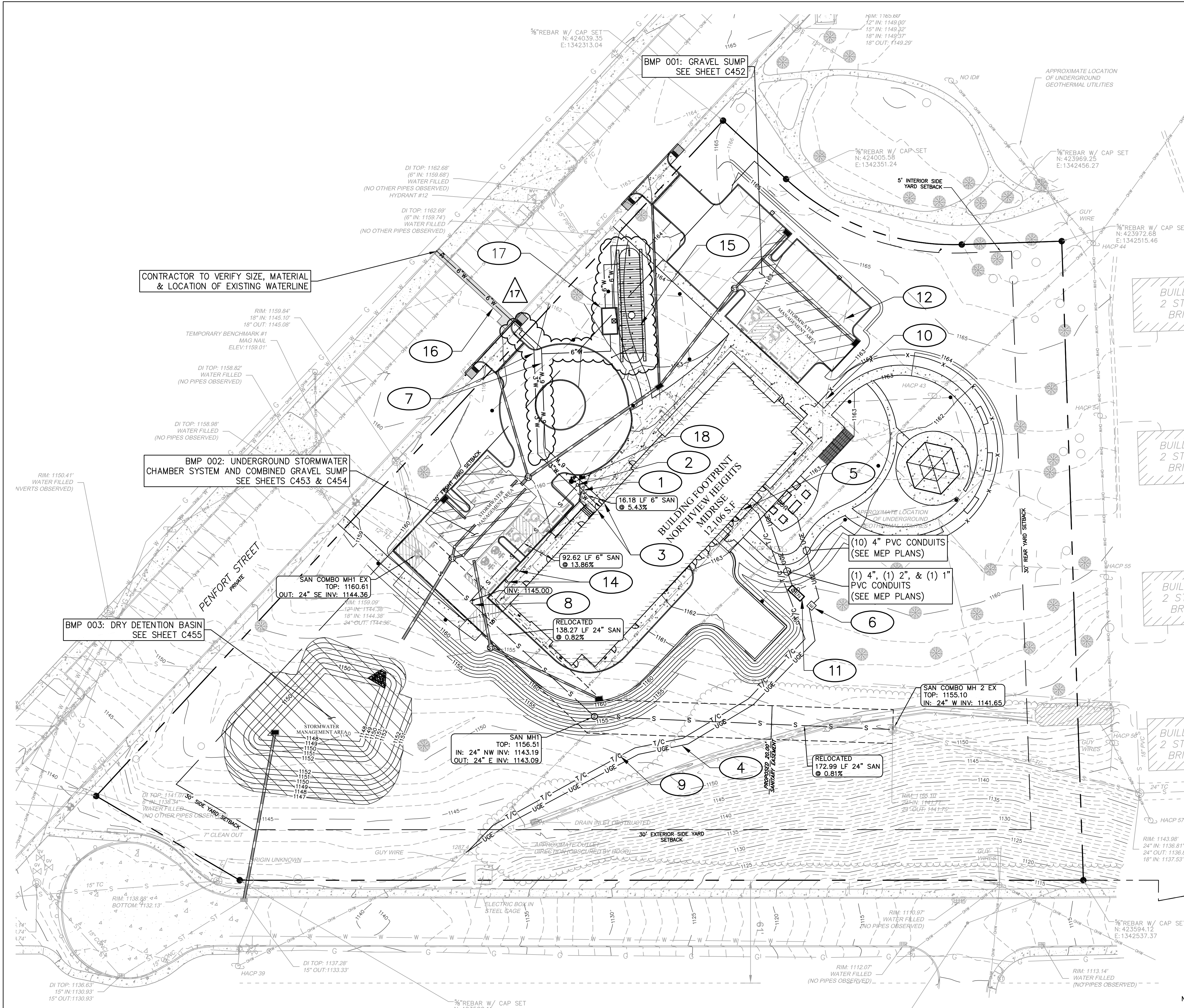
G	EXISTING GAS LINE
W	EXISTING WATER LINE
OHW	EXISTING OVERHEAD WIRE
S	EXISTING SANITARY LATERAL
S	EXISTING SANITARY LINE
S	EXISTING STORM LINE
S	EXISTING GEOTHERMAL UTILITIES
G	PROPOSED GAS LINE
UGE	PROPOSED UNDERGROUND ELECTRIC LINES
T/C	PROPOSED TELE. & COMMUNICATIONS LINES
S	PROPOSED 24" RE-ROUTED SANITARY LINE
S	PROPOSED 6" SANITARY LATERAL WHERE NOTED
S	PROPOSED STORM LINE
3"W	PROPOSED 3" WATER LINE
6"W	PROPOSED 6" WATER LINE
GEN	PROPOSED GENERATOR (SEE MEP PLANS)
S	PROPOSED 8" STORM COLLECTION PIPE
S	PROPOSED 6" STORM COLLECTION PIPE
W	PROPOSED WATER VALVE

NOTES:

- SEE MEP PLANS FOR UNDERGROUND ELECTRICAL ROUTING TO LIGHT POLE BASES AND OTHER EXTERIOR LIGHTING FIXTURES.
- EXISTING CONDITIONS SHOWN HEREIN WERE OBTAINED FROM FUKUI ARCHITECTS IN DWG FILED NAMED NORTHVIEW_HEIGHTS_ALTA_UPDATE-DRAFT 2022-3-17 AND DATED 3/17/2022 PER SURVEY PERFORMED BY SCI-TEK. RED SWING CONSULTING SERVICES, LLC IS NOT RESPONSIBLE FOR DESIGN ERRORS OR OMISSIONS RESULTING FROM SURVEY INACCURACIES. CONTRACTOR TO VERIFY ALL QUANTITIES, MATERIAL TYPES AND SIZES AS NECESSARY FOR BIDDING AND CONSTRUCTION.



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GAS SERVICE
PEOPLES GAS COMPANY LLC
375 NORTH SHORE DRIVE
PITTSBURGH, PA 15212
CONTACT: MICHAEL DENNY
EMAIL: MICHAEL.DENNY@PEOPLES-GAS.COM

WATER SERVICE
PITTSBURGH WATER & SEWER
AUTHORITY
1200 PENN AVENUE
PITTSBURGH, PA. 15222
CONTACT: RICK OBERMEIER
EMAIL: robermeier@pgh2o.com

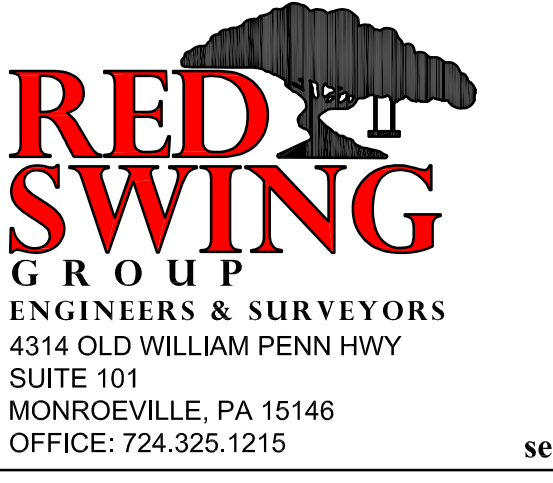
SANITARY SEWER
PITTSBURGH WATER & SEWER
AUTHORITY
1200 PENN AVENUE
PITTSBURGH, PA. 15222
CONTACT: RICK OBERMEIER
EMAIL: robermeier@pgh2o.com

ELECTRIC SERVICE
DUQUESNE LIGHT COMPANY
2645 NEW BEAVER AVE
PA-TD
PITTSBURGH, PA. 15233
CONTACT: KYLIE PARISON
EMAIL: kparison@duqlight.com

TELEPHONE SERVICE
VERIZON PENNSYLVANIA LLC
1026 HAY ST
PITTSBURGH, PA. 15221
CONTACT: DEBORAH BARUM
EMAIL: deborah.d.delia@verizon.com

CABLE
COMCAST
1530 CHARTIERS AVE
PITTSBURGH, PA. 15204
CONTACT: ANASTASIYA MAKSAKOVA
ANASTASIYA_MAKSKOVA@COMCAST.COM

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PA ONE CALL SERIAL No. 20212406972 AS PER CALL
FOR MAPS BY RED SWING GROUP SEPTEMBER 1st, 2021



general notes

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- | | |
|----|--------------------|
| 1 | REVISED 2022/02/09 |
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project title

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HACP
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Pittsburgh, PA, 15219

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Pittsburgh, PA 15219

Project Location:
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drawing title

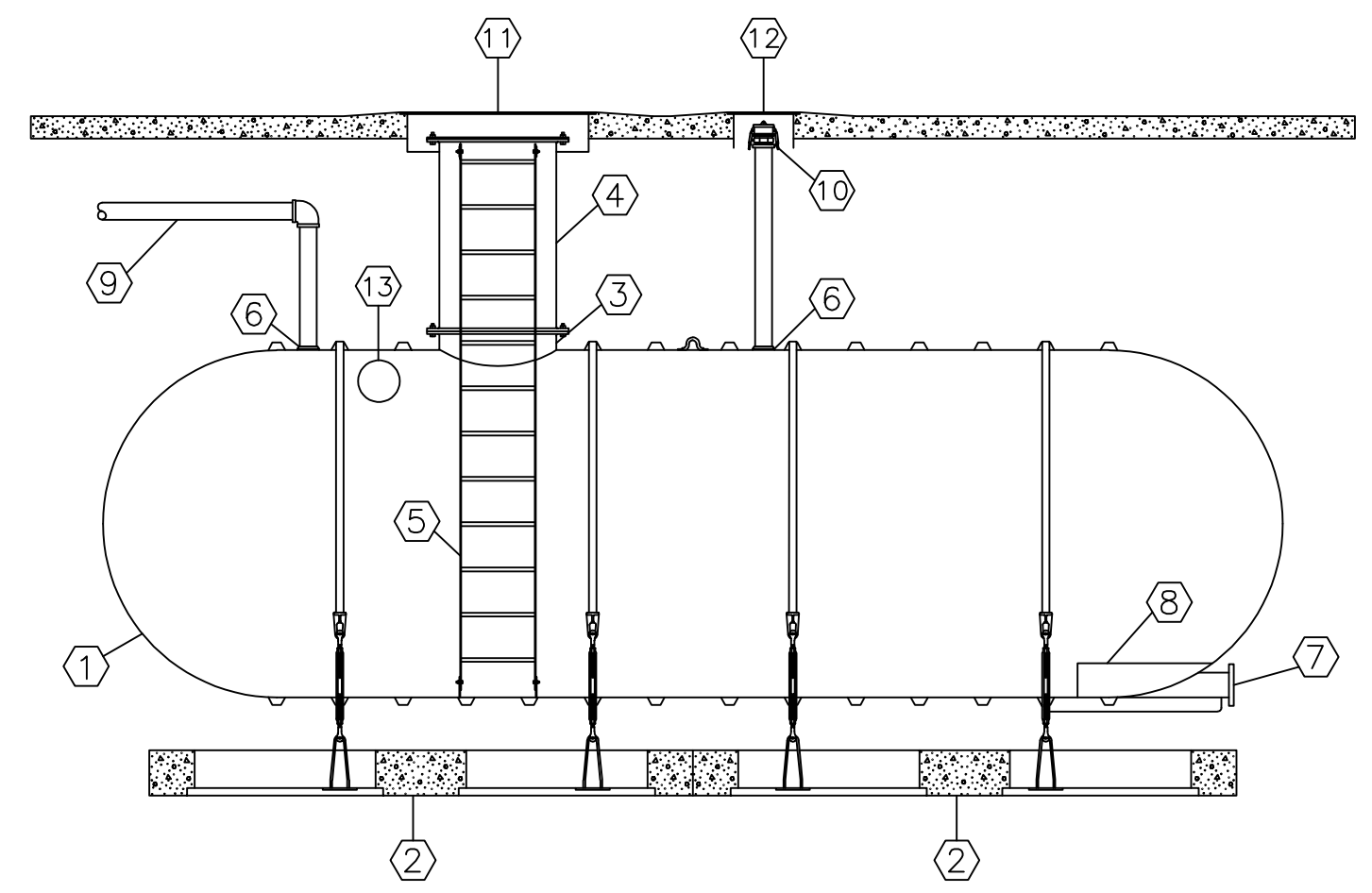
FIRE TANK DETAILS

scale	As Noted
date	December 10, 2021
no.	of.

Sheet No.

C552

Project #2040

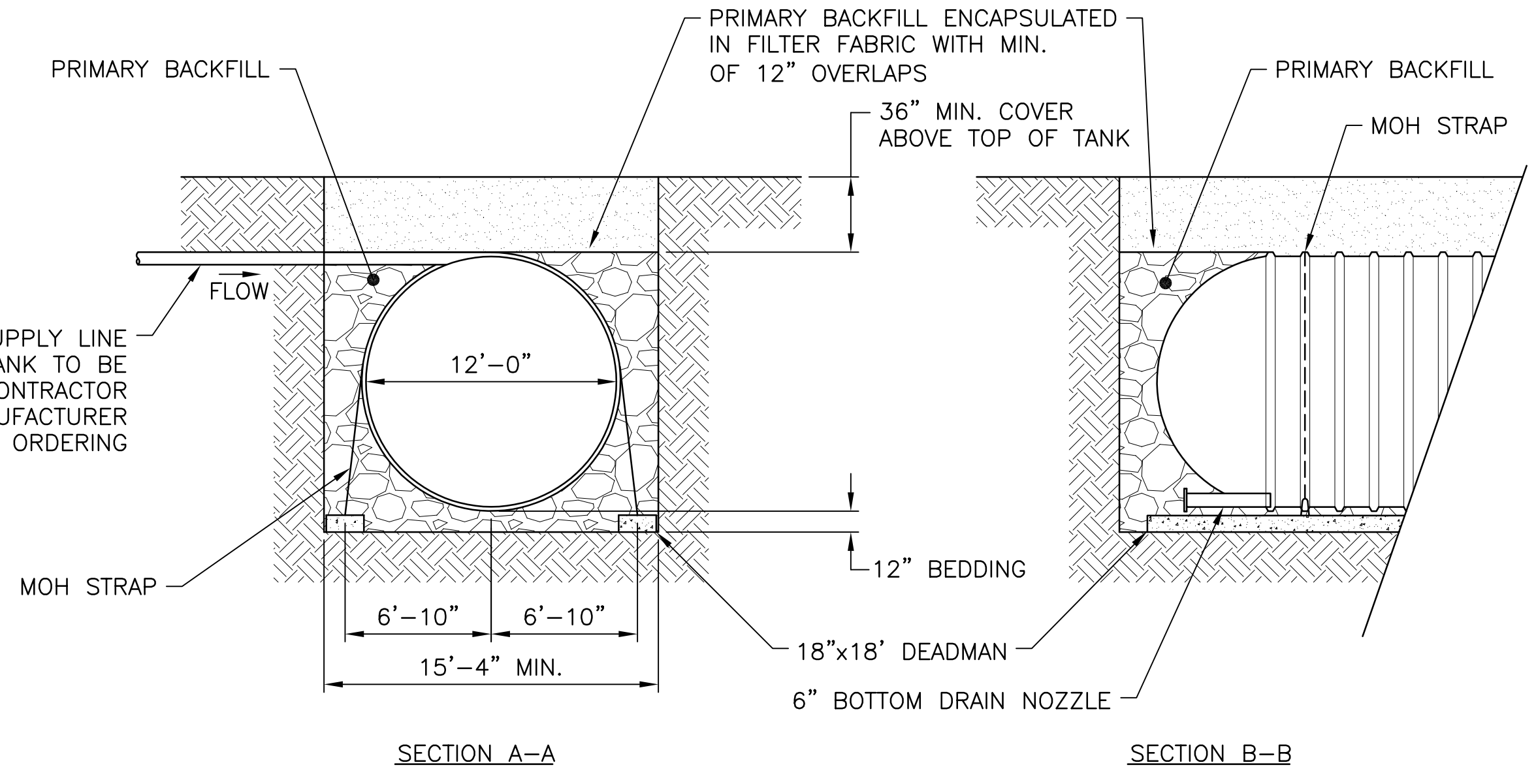


NO.	DESCRIPTION
1	XERXES SINGLE WALL FRP TANK
2	XERXES PRECAST DEADMAN SYSTEM W/HOLD DOWN STRAP AND TURNBUCKLE ASSEMBLY
3	30" MANWAY WITH BLANK COVER
4	30" MANWAY EXTENSION
5	FRP LADDER
6	4" NPT SERVICE FITTING
7	6" TANGENTIAL FULL BOTTOM DRAIN NOZZLE
8	FRP ANTI-VORTEX PLATE
9	6" VENT PIPE
10	4" FILL W/CAM LOCK CONNECTION
11	48" ROUND MANHOLE
12	16" ROUND MANHOLE
13	6" FILL NOZZLE

XERXES®
a zca company

*DETAIL SHOWN REPRESENTS GENERALIZED DETAIL FROM TANK MANUFACTURER. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE TANK ASSEMBLY INCLUDING FILL NOZZLE LOCATION AND/OR FILL W/CAM CONNECTION DURING TANK ORDER WITH MANUFACTURER.

GENERAL FIRE WATER STORAGE, FULL BOTTOM DRAIN, TANGENTIAL NOZZLE WITH ANTI-VORTEX*
SEE GRAPHIC SCALE

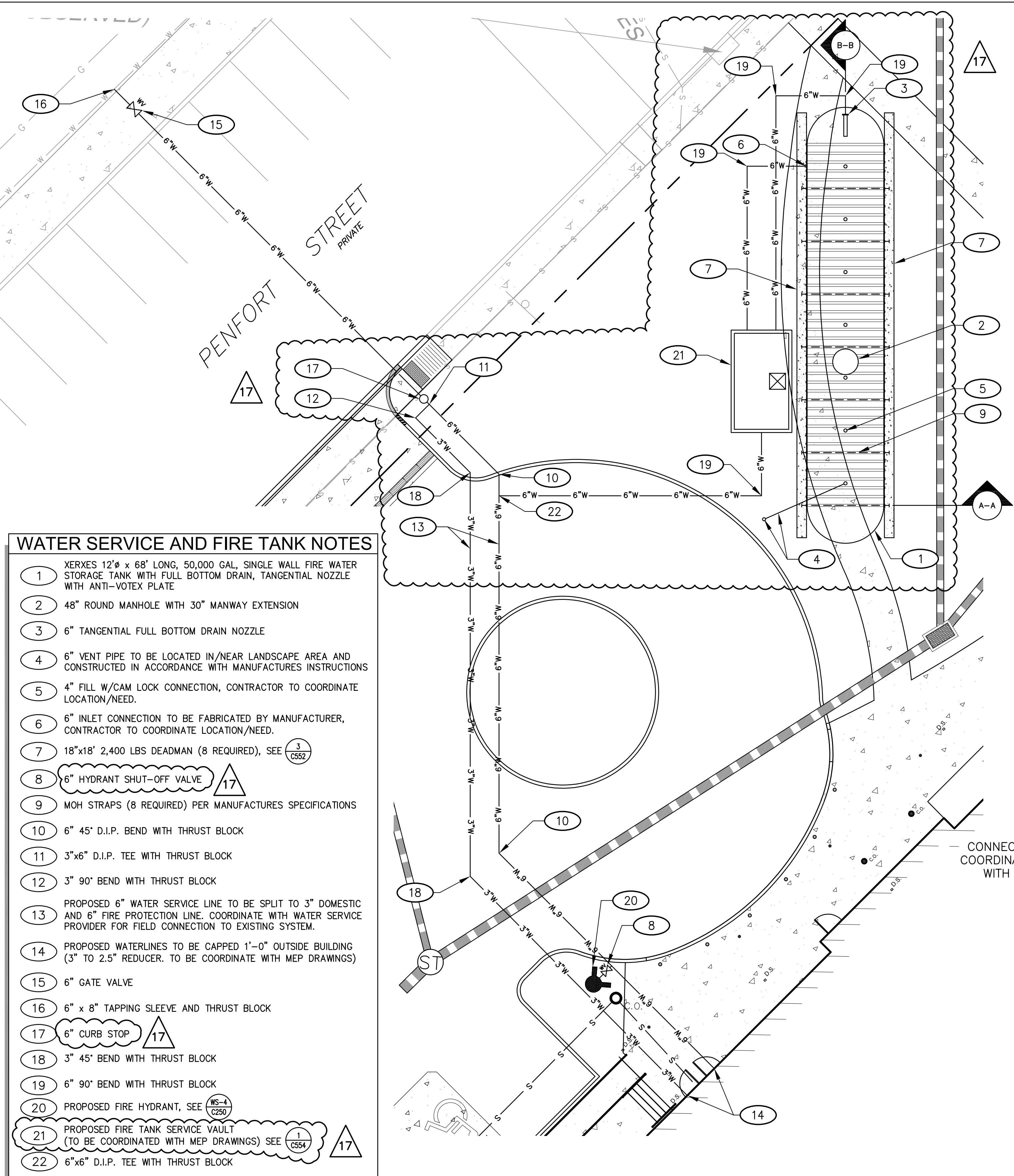


PRIMARY BACKFILL REQUIREMENTS:

- PRIMARY BACKFILL MATERIAL IS TO BE CLEAN, FREE-FLOWING, AND FREE OF DIRT, SAND, LARGE ROCKS, ROOTS, ORGANIC MATERIALS, DEBRIS, ICE AND SNOW.
- TANKS SHALL BE INSTALLED USING SELECT ROUNDED STONES OR CRUSHED STONES AS PRIMARY BACKFILL MATERIAL.
- NO BACKFILL MATERIAL SHALL BE FROZEN OR CONTAIN LUMPS OF FROZEN MATERIAL ANY TIME DURING COMPACTION OR PLACEMENT.
- USE COARSE AGGREGATE (ROUNDED STONES OR CRUSHED STONES) AS PRIMARY BACKFILL MATERIAL. SEE SIZE REQUIREMENTS FROM TANK MANUFACTURER.
- PRIMARY BACKFILL MATERIAL SHOULD BE A MIX OF WELL-GRADED STONES, GENERALLY CONFORMING TO THE 6, 67, 7 AND 8 SIZES OF ASTM'S C33.
- NO MORE THAN 5% OF PRIMARY BACKFILL MATERIAL SHALL PASS THE #8 SIEVE.
- MATERIALS LIKE SOFT LIMESTONE, SANDSTONE, SEASHELLS OR SHALE THAT BREAK DOWN OVER TIME SHALL NOT BE USED FOR TANK INSTALLATION.
- REFER TO GEOTECHNICAL RECOMMENDATIONS AND MANUFACTURER'S INSTRUCTIONS FOR BACKFILL AND COMPACTION REQUIREMENTS.
- ENCAPSULATE PRIMARY BACKFILL IN PENNDOT CLASS 4, TYPE A GEOTEXTILE WITH A MINIMUM OVERLAP OF 12 INCHES.

BACKFILL MATERIAL AND GEOTEXTILE NOTES:

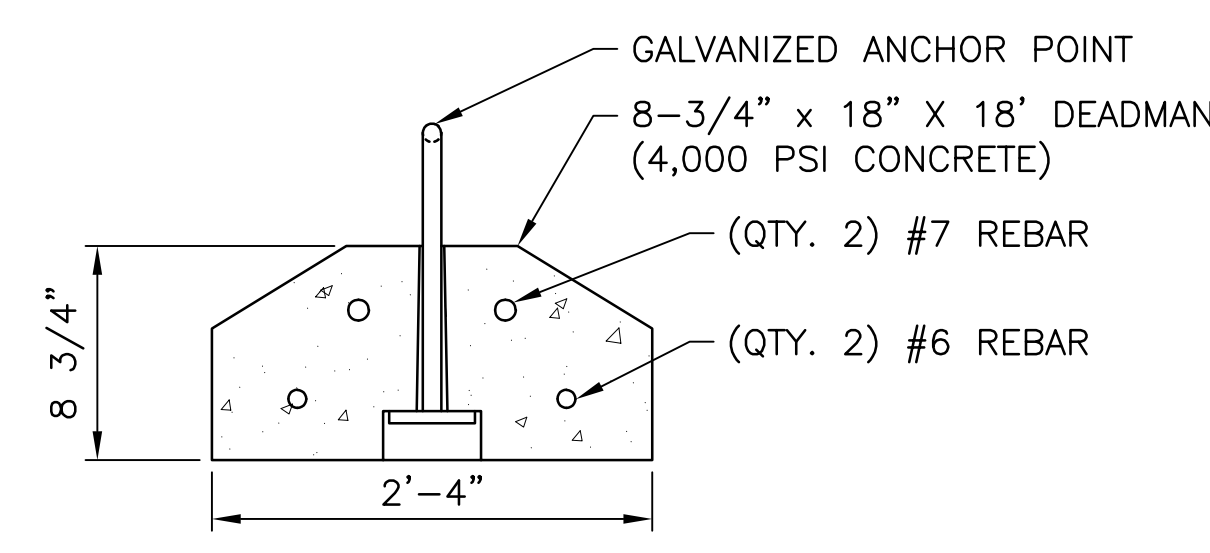
- USING OTHER THAN SPECIFIED BACKFILL MATERIAL COULD CAUSE TANK FAILURE OR COULD RESULT IN DAMAGE TO THE TANK AND/OR SURROUNDING PROPERTY. USING BACKFILL MATERIAL OTHER THAN THAT SPECIFIED HEREIN WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE TANK MANUFACTURER MAY VOID APPLICABLE LIMITED WARRANTY.
- IT IS RECOMMENDED THAT THE SUPPLIER OF BACKFILL MATERIAL PROVIDE THE TANK INSTALLER AND TANK OWNER WITH WRITTEN CERTIFICATION THAT THE MATERIAL CONFORMS TO ASTM C 33, ASTM D 448, AASHTO M 43, AND ANY OTHER APPLICABLE SPECIFICATIONS.



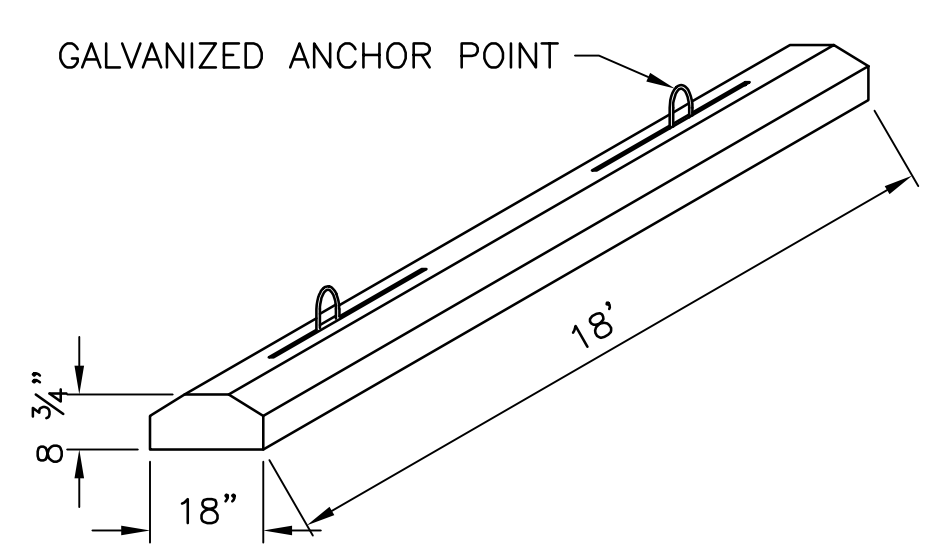
WATER SERVICE AND FIRE TANK NOTES

- XERXES 12'Ø x 68' LONG, 50,000 GAL, SINGLE WALL FIRE WATER STORAGE TANK WITH FULL BOTTOM DRAIN, TANGENTIAL NOZZLE WITH ANTI-VORTEX PLATE
- 48" ROUND MANHOLE WITH 30" MANWAY EXTENSION
- 6" TANGENTIAL FULL BOTTOM DRAIN NOZZLE
- 6" VENT PIPE TO BE LOCATED IN/NEAR LANDSCAPE AREA AND CONSTRUCTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
- 4" FILL W/CAM LOCK CONNECTION, CONTRACTOR TO COORDINATE LOCATION/NEED.
- 6" INLET CONNECTION TO BE FABRICATED BY MANUFACTURER, CONTRACTOR TO COORDINATE LOCATION/NEED.
- 18"x18' 2,400 LBS DEADMAN (8 REQUIRED), SEE (3) C552
- 6" HYDRANT SHUT-OFF VALVE (17)
- MOH STRAPS (8 REQUIRED) PER MANUFACTURER'S SPECIFICATIONS
- 6" 45° D.I.P. BEND WITH THRUST BLOCK
- 3"x6" D.I.P. TEE WITH THRUST BLOCK
- 3" 90° BEND WITH THRUST BLOCK
- PROPOSED 6" WATER SERVICE LINE TO BE SPLIT TO 3" DOMESTIC AND 6" FIRE PROTECTION LINE. COORDINATE WITH WATER SERVICE PROVIDER FOR FIELD CONNECTION TO EXISTING SYSTEM.
- PROPOSED WATERLINES TO BE CAPPED 1'-0" OUTSIDE BUILDING (3" TO 2.5" REDUCER, TO BE COORDINATE WITH MEP DRAWINGS)
- 6" GATE VALVE
- 6" x 8" TAPPING SLEEVE AND THRUST BLOCK
- 6" CURB STOP (17)
- 3" 45° BEND WITH THRUST BLOCK
- 6" 90° BEND WITH THRUST BLOCK
- PROPOSED FIRE HYDRANT, SEE (15-4) C551
- PROPOSED FIRE TANK SERVICE VAULT (TO BE COORDINATED WITH MEP DRAWINGS) SEE (1) C554
- 6"x6" D.I.P. TEE WITH THRUST BLOCK

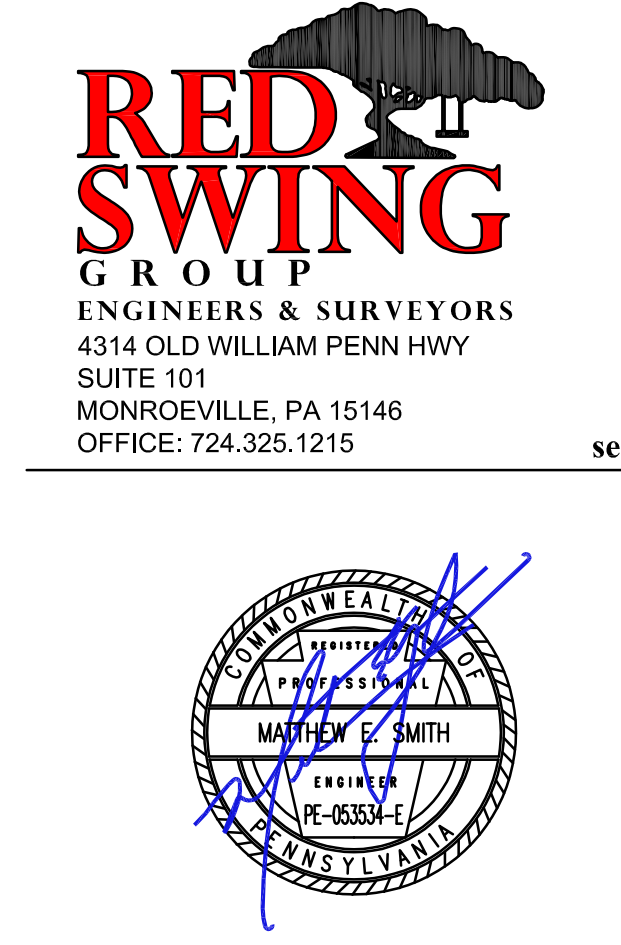
EXPANDED VIEW OF WATER SERVICE LINE AND FIRE TANK LOCATION
SEE GRAPHIC SCALE



2,400 LBS DEADMAN DETAIL
SEE GRAPHIC SCALE



SECTION OF FIRE TANK INSTALLATION
SEE GRAPHIC SCALE



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Pittsburgh, PA 15219

Project Location:
Northview Heights Midrise
250 Penfort Street
Pittsburgh, PA 15214

drawing title

PWSA DETAILS 1 OF 2

scale
As Noted

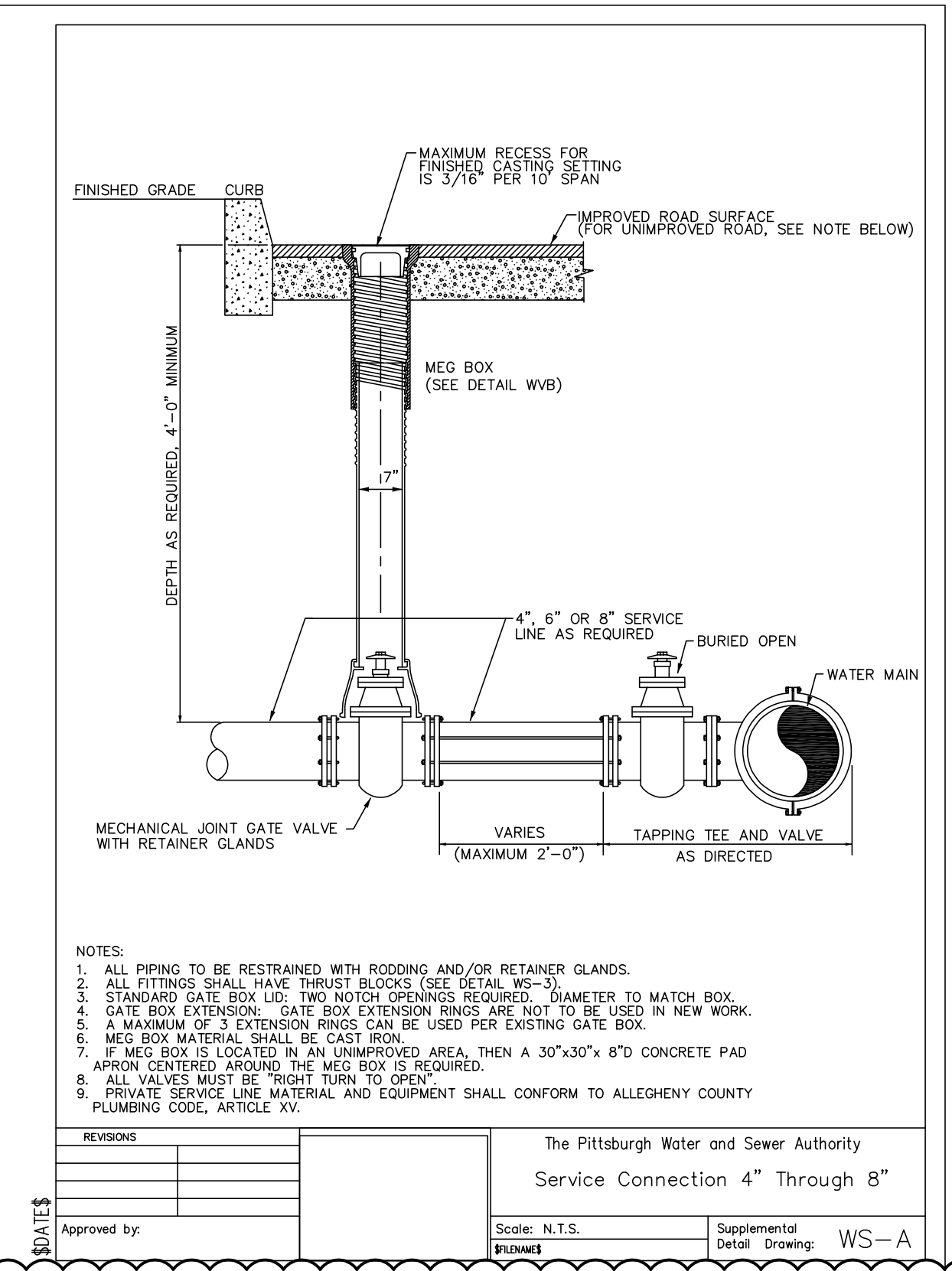
date
December 10, 2021

no. of.

Sheet No.

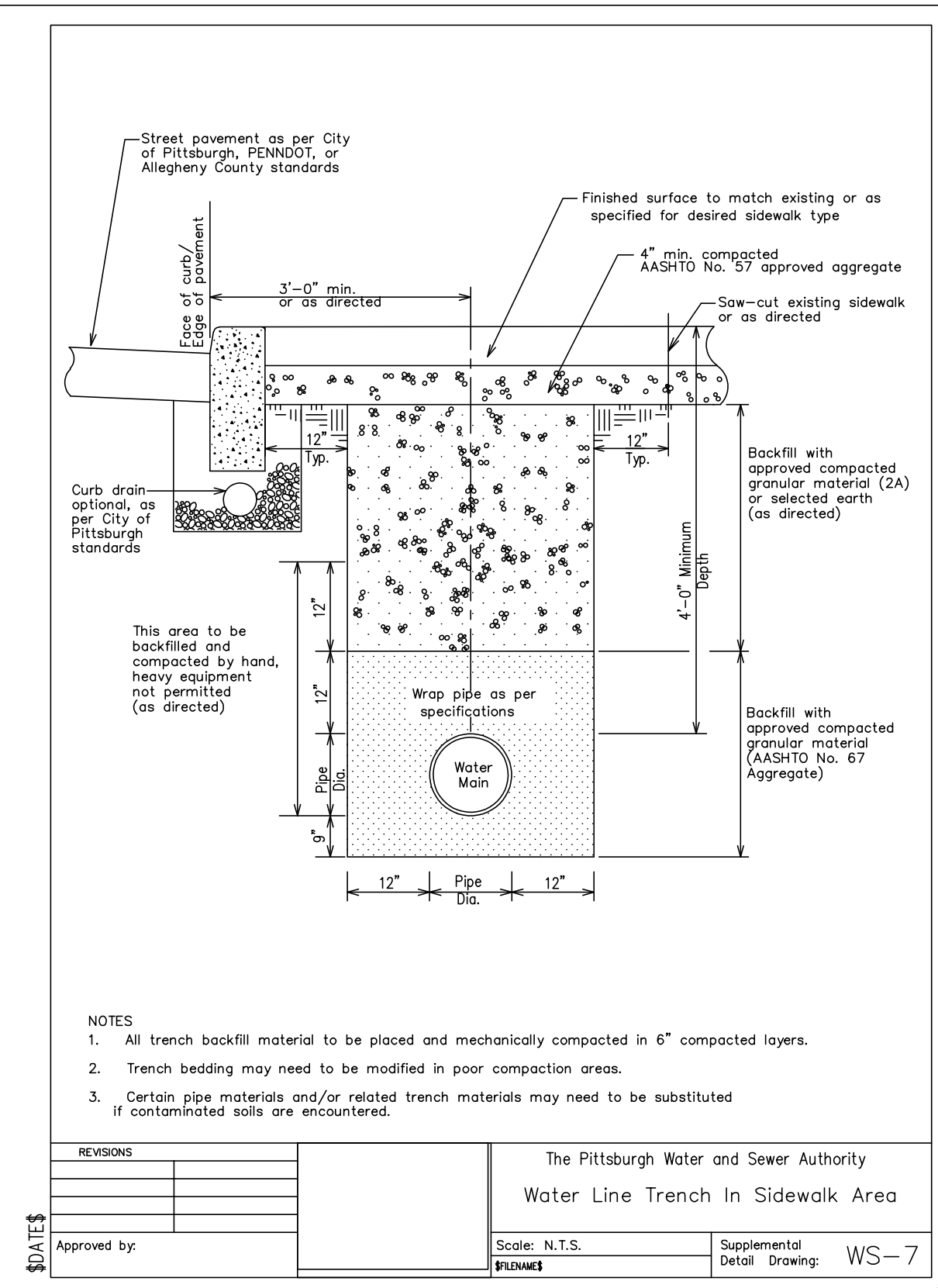
C553

Project #2040



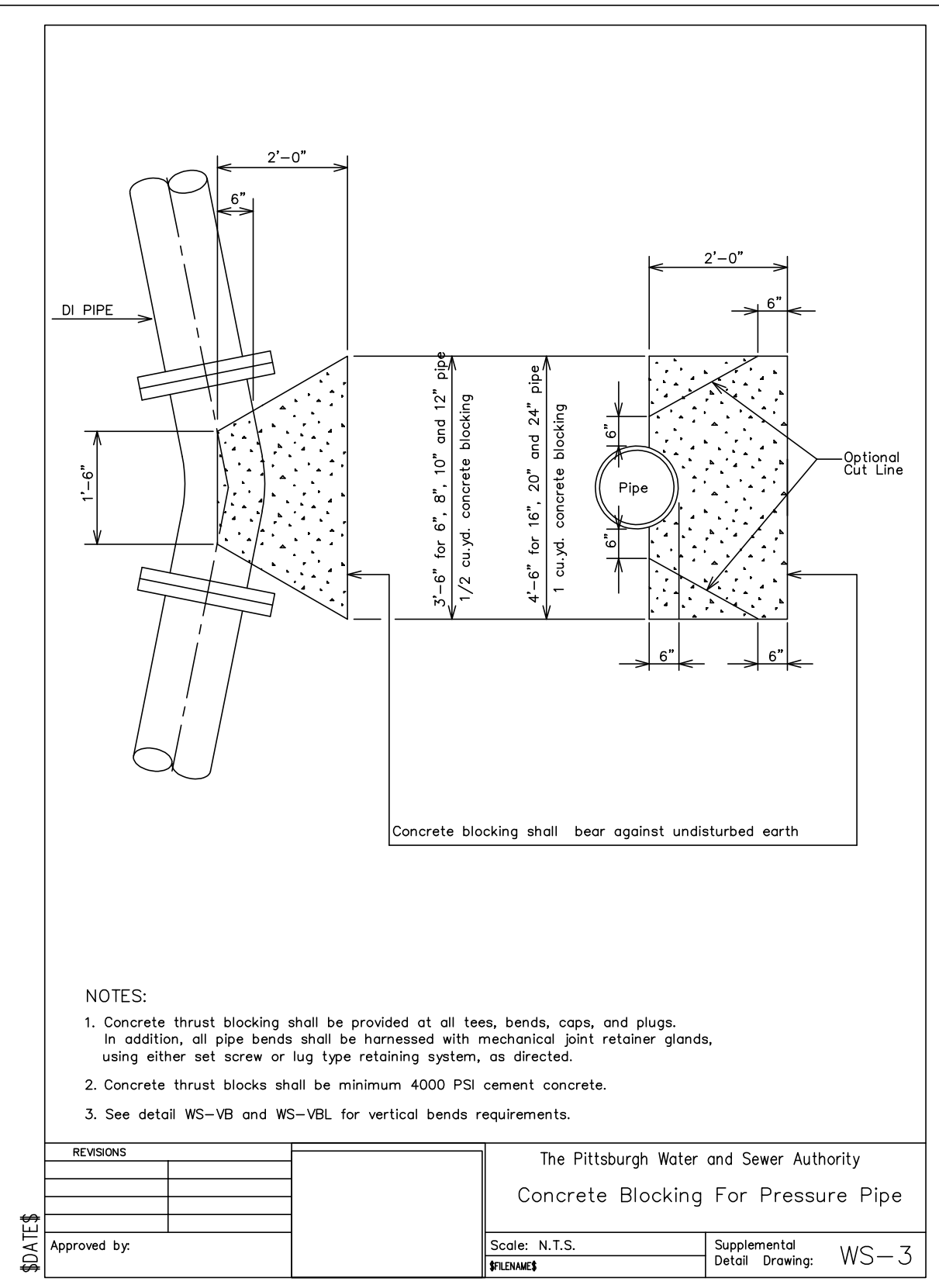
NOTES:
1. ALL PIPING TO BE RESTRAINED WITH ROODING AND/OR RETAINER GLANDS.
2. ALL FITTINGS SHALL HAVE THRUST BLOCKS (SEE DETAIL WS-3).
3. STANDARD GATE BOX LID: TWO NOTCH OPENINGS REQUIRED. DIAMETER TO MATCH BOX.
4. GATE BOX EXTENSION: GATE BOX EXTENSION RINGS ARE NOT TO BE USED IN NEW WORK.
5. A MAXIMUM OF 3 EXTENSION RINGS CAN BE USED PER EXISTING GATE BOX.
6. MEG BOX MATERIAL SHALL BE CAST IRON.
7. IF MEG BOX IS LOCATED IN AN UNIMPROVED AREA, THEN A 30"x30"x 8"D CONCRETE PAD APRON EXTENDING AROUND THE MEG BOX IS REQUIRED.
8. ALL VALVES MUST BE "RIGHT TURN TO OPEN".
9. PRIVATE SERVICE LINE MATERIAL AND EQUIPMENT SHALL CONFORM TO ALLEGHENY COUNTY PLUMBING CODE, ARTICLE XV.

REVISIONS
Approved by: [Signature] Scale: N.T.S. Supplemental Detail Drawing: WS-A



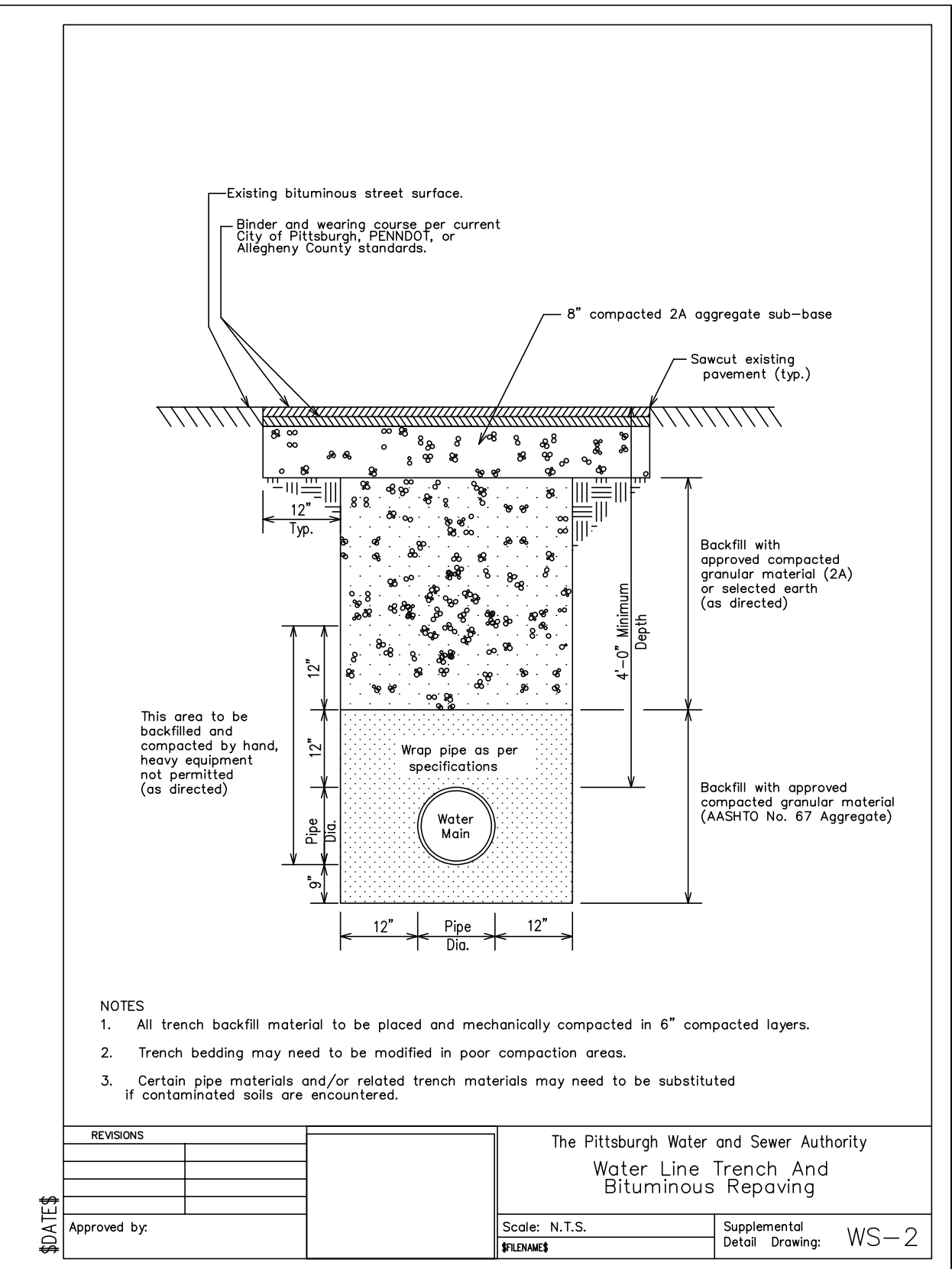
NOTES:
1. All trench backfill material to be placed and mechanically compacted in 6" compacted layers.
2. Trench bedding may need to be modified in poor compaction areas.
3. Certain pipe materials and/or related trench materials may need to be substituted if contaminated soils are encountered.

REVISIONS
Approved by: [Signature] Scale: N.T.S. Supplemental Detail Drawing: WS-7



NOTES:
1. Concrete thrust blocking shall be provided at all tees, bends, caps, and plugs. In addition, all pipe bends shall be harnessed with mechanical joint retainer glands, using either set screw or lug type retaining system, as directed.
2. Concrete thrust blocks shall be minimum 4000 PSI cement concrete.
3. See detail WS-VB and WS-VBL for vertical bends requirements.

REVISIONS
Approved by: [Signature] Scale: N.T.S. Supplemental Detail Drawing: WS-3



NOTES:
1. All trench backfill material to be placed and mechanically compacted in 6" compacted layers.
2. Trench bedding may need to be modified in poor compaction areas.
3. Certain pipe materials and/or related trench materials may need to be substituted if contaminated soils are encountered.

REVISIONS
Approved by: [Signature] Scale: N.T.S. Supplemental Detail Drawing: WS-2

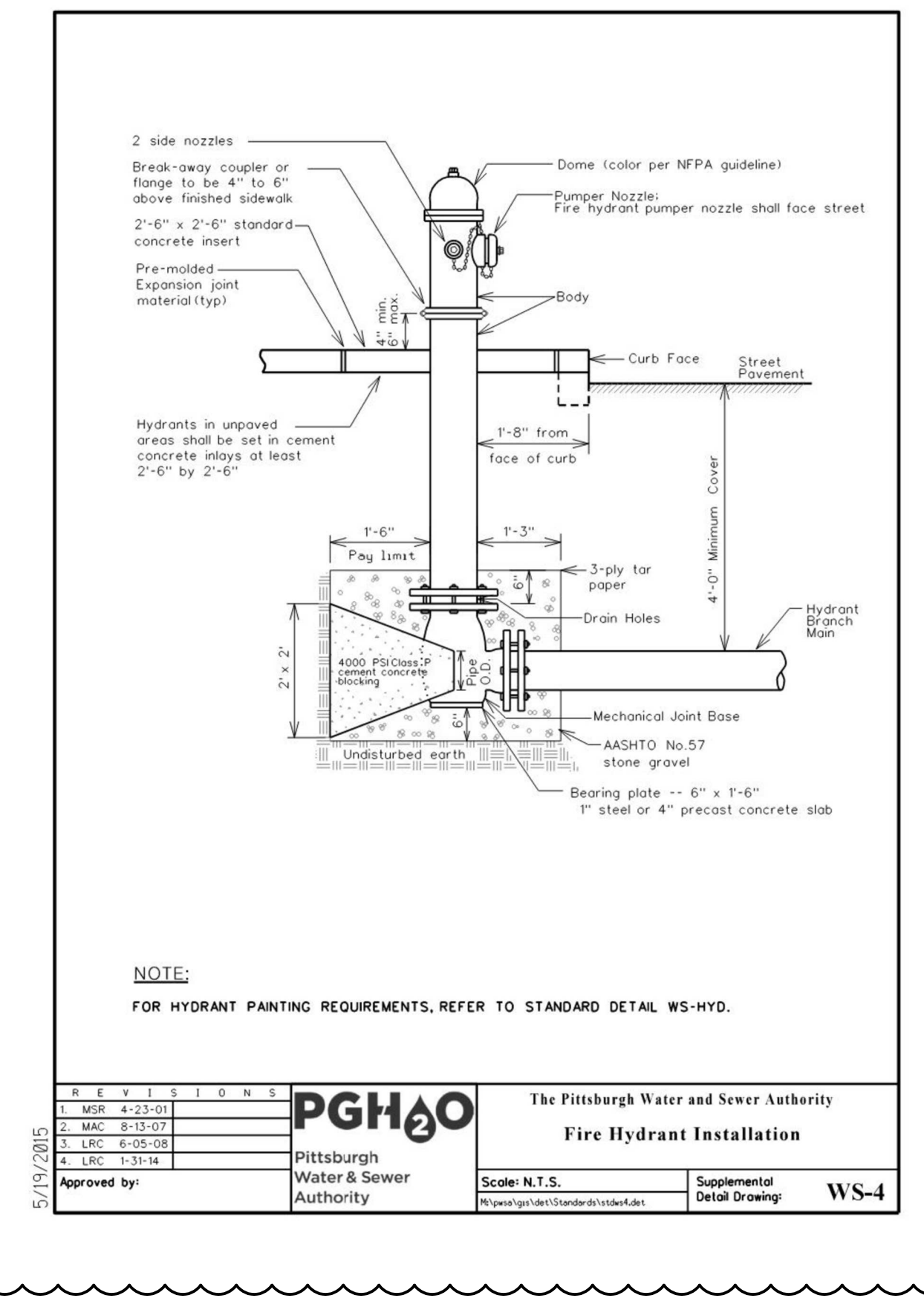


TABLE FOR DETERMINING LENGTH OF BOX NEEDED

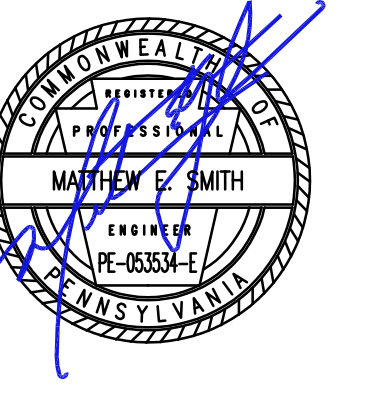
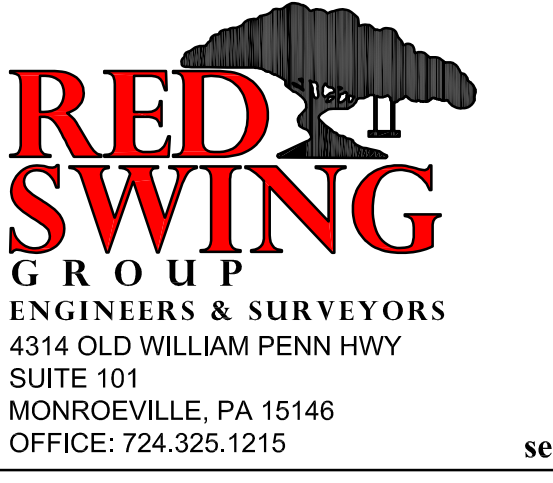
SIZE OF VALVE	BOTTOM BASE TO BOTTOM TRENCH (DIM. E)	No. BASE USED	DEPTH OF TRENCH (DIM. D)										
			36"	42"	48"	54"	60"	66"	72"	78"	84"		
3	8"	4	I	I	J	K	L	L	L	L*	L*	L*	L*
4	13-1/2"	4	I	I	J	J	K	L	L	L*	L*	L*	L*
6	15"	6	I	I	J	J	K	L	L	L*	L*	L*	L*
8	19"	6	I	I	J	J	K	L	L	L	L	L	L
10	24"	6	I	I	J	J	K	L	L	L	L	L	L
12	31"	160											
14	36-1/2"	160											
16	41-1/4"	160											

* LONGER BOXES MADE BY ADDING EXTENSIONS TO SIZE L. FOR VALVE CLOSER TO SURFACE, USE NO. 140 ROUND BASE AND REDUCE LENGTH SHOWN ABOVE BY 6 INCHES.

NOTES:
1. MEDIUM EXTENSION GATE VALVE BOX SHALL BE BINGHAM & TAYLOR No. 5001, OR APPROVED EQUAL.
2. MADE OF CAST IRON, SCREW TYPE, 3-PIECE BOX W/ LID AND #6 BASE, 7" DIAMETER SHAFT.
3. LABELED "WATER" ON THE COVER.

REVISIONS
Approved by: [Signature] Scale: N.T.S. Supplemental Detail Drawing: WS-4

*CONTRACTOR TO CONFIRM EXISTING PIPE SIZE



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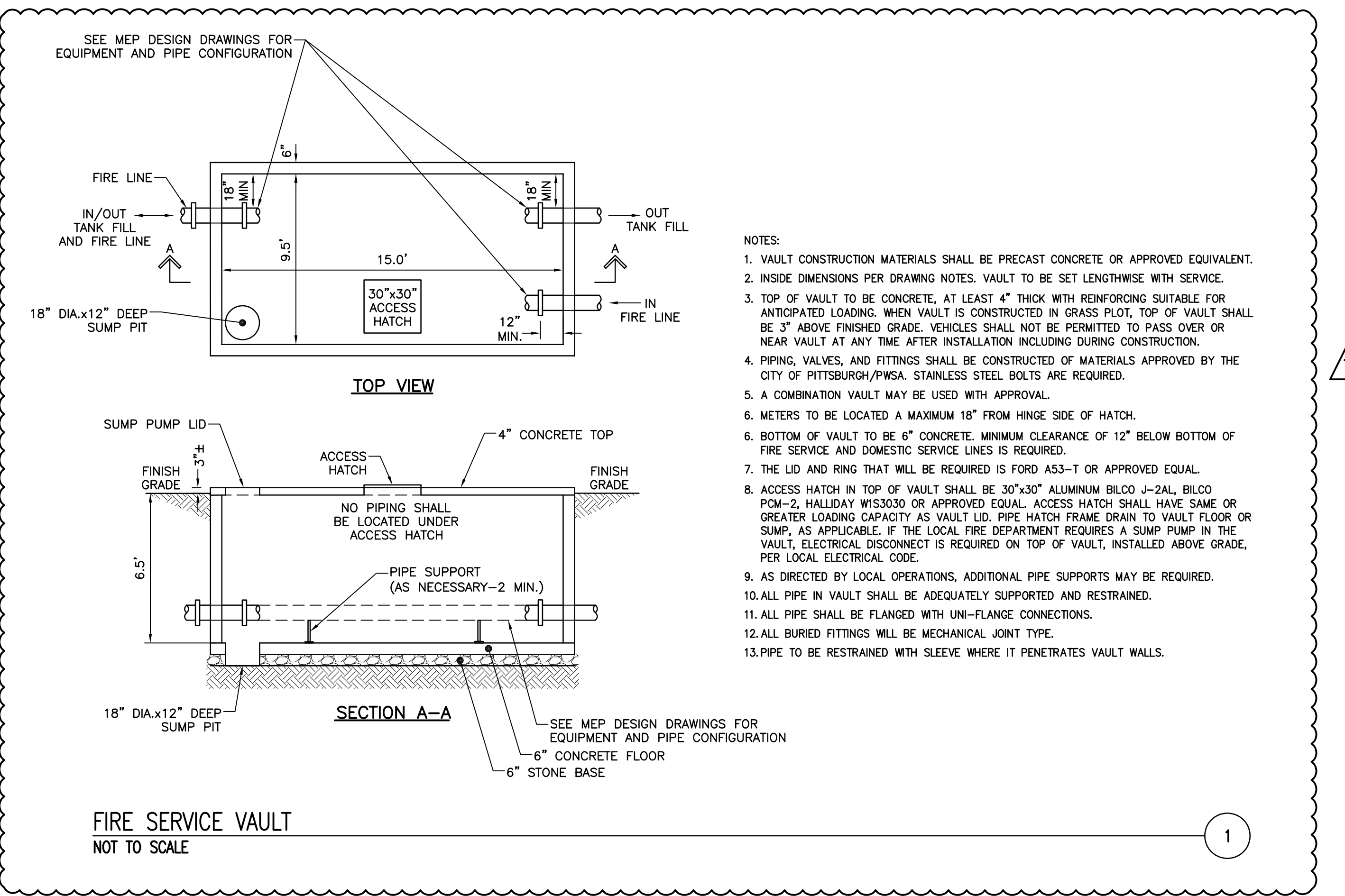
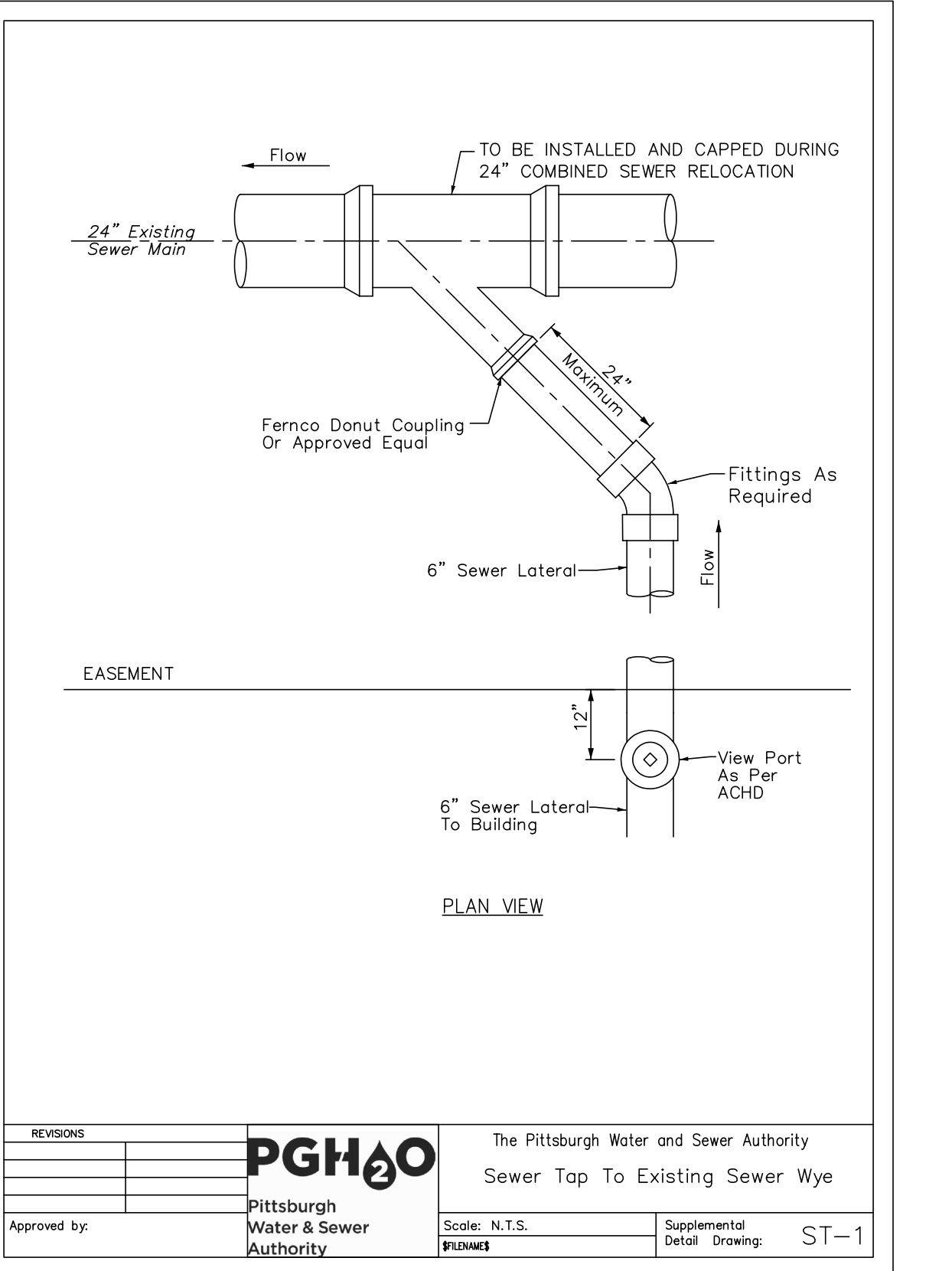
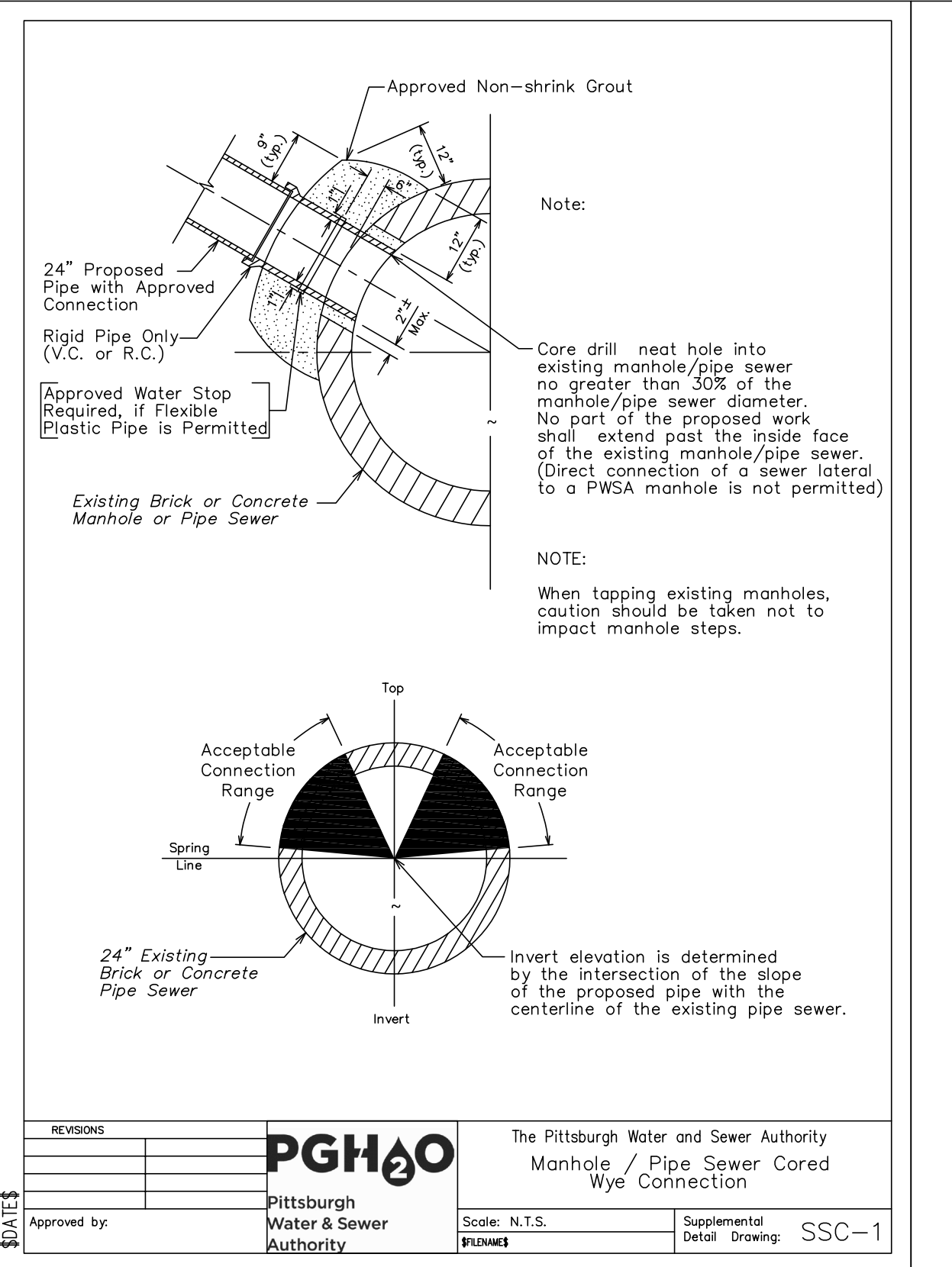
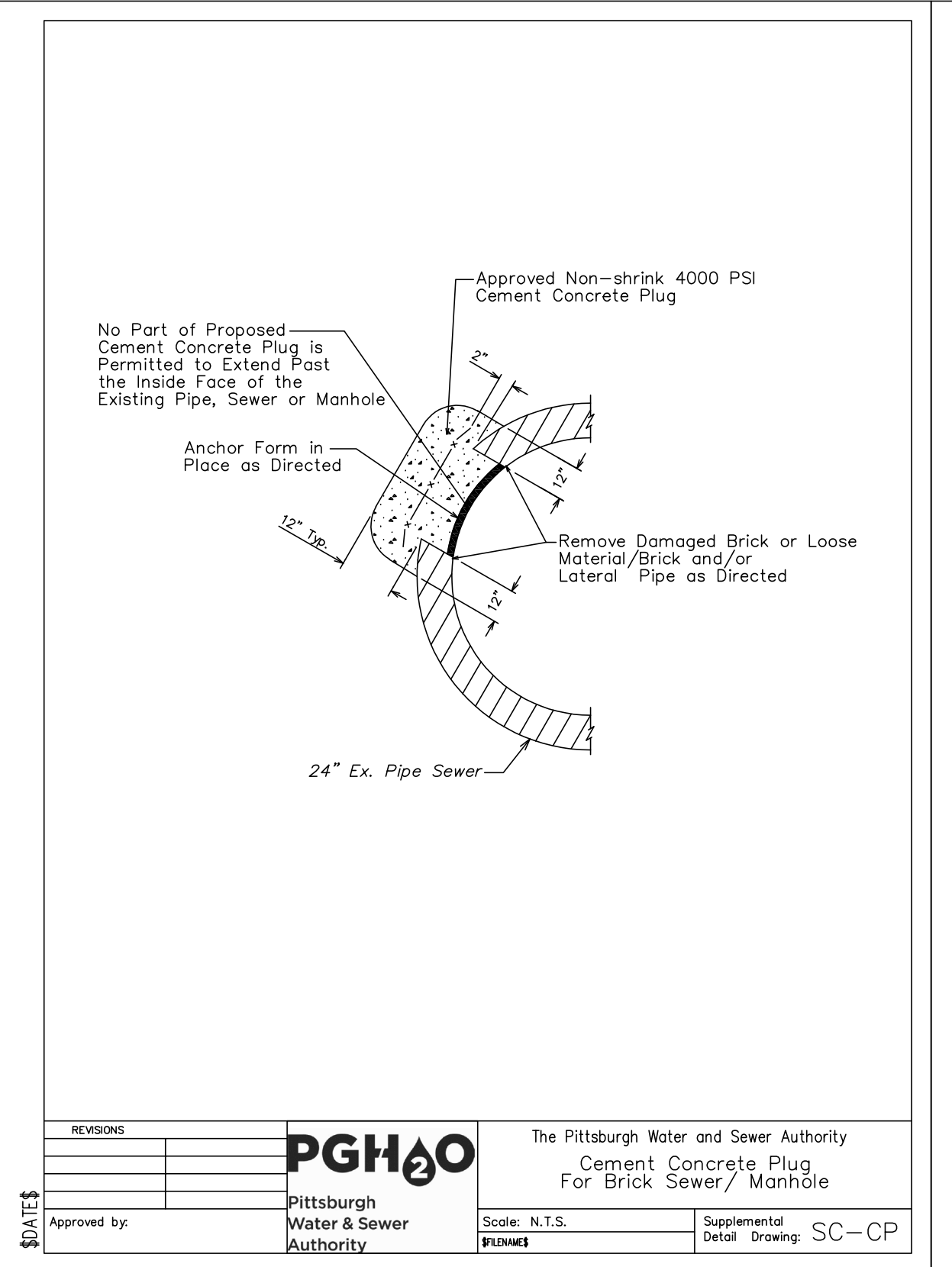
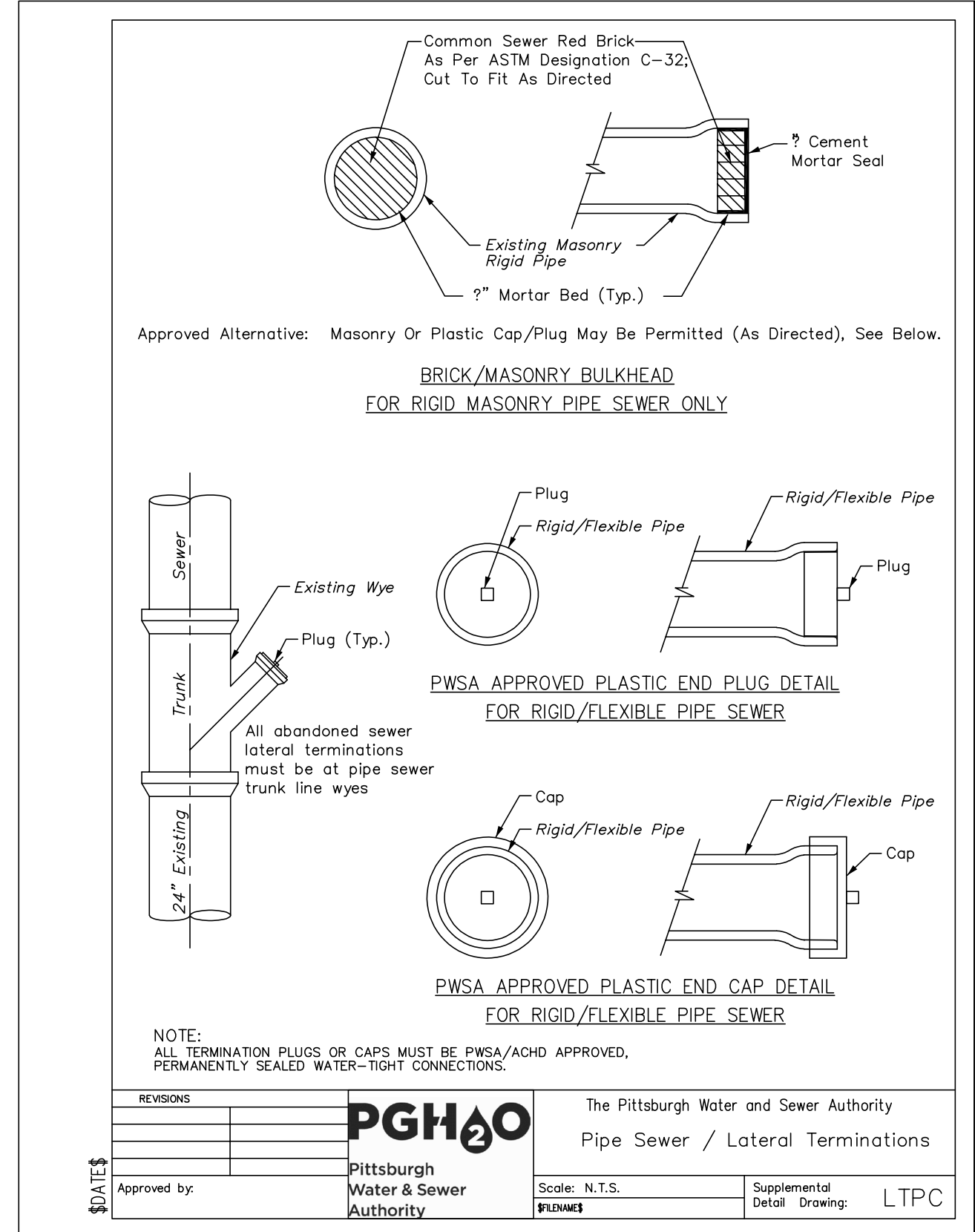
Project Location:
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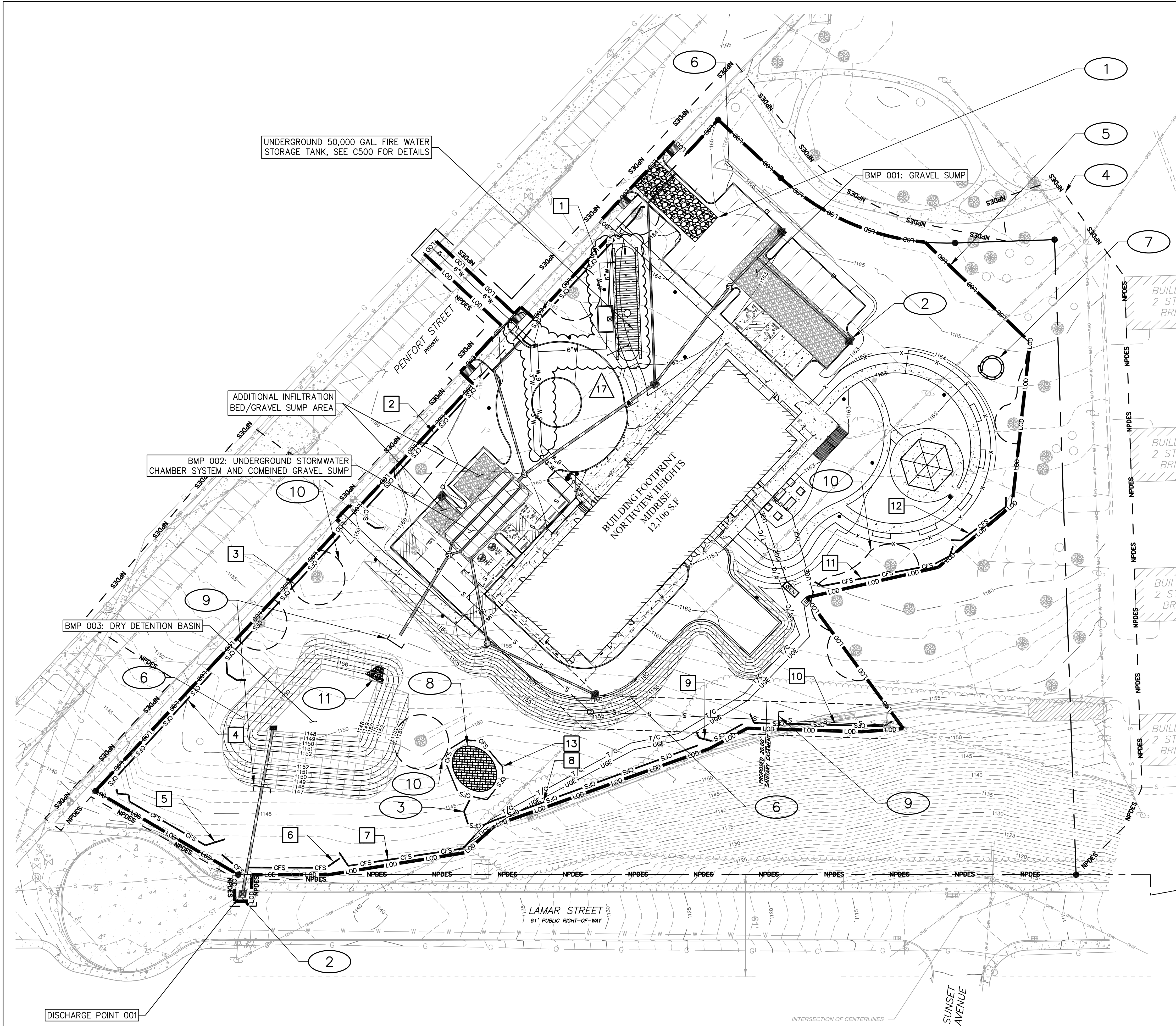
drawing title

PWSA DETAILS 2 OF 2

scale	As Noted
date	December 10, 2021
no.	of.

Sheet No.
C554
Project #2040





EROSION AND SEDIMENTATION CONTROL NOTES

- 1 PROPOSED ROCK CONSTRUCTION ENTRANCE. SEE 6 C651
- 2 PROPOSED INLET PROTECTION. SEE 4 C651
- 3 PROPOSED COMPOST FILTER SOCK. SEE 1 C651
- 4 EXISTING NPDES BOUNDARY.
- 5 PROPOSED LIMIT OF DISTURBANCE.
- 6 PROPOSED EROSION CONTROL BLANKET. SEE 8 C651
- 7 PROPOSED CONCRETE WASHOUT. SEE 5 C651
- 8 PROPOSED TOPSOIL STOCKPILE AREA. SEE 9 C651
- 9 PROPOSED TRENCH PLUG. SEE 1 C652
- 10 PROPOSED TREE PROTECTION/ORANGE CONSTRUCTION FENCE (TYP.) SEE 2 C652
- 11 PROPOSED RIP-RAP APRON. SEE 2 C652

LEGEND

- PROPOSED ROCK CONSTRUCTION ENTRANCE.
- PROPOSED LIMIT OF DISTURBANCE.
- EXISTING NPDES BOUNDARY.
- PROPOSED COMPOST FILTER SOCK.
- PROPOSED INLET PROTECTION.
- PROPOSED EROSION CONTROL BLANKET.
- PROPOSED TOPSOIL STOCKPILE AREA.
- PROPOSED CONCRETE WASHOUT AREA.
- PROPOSED TRENCH PLUG
- PROPOSED RIP-RAP APRON
- EXISTING MINOR/MAJOR CONTOURS.
- PROPOSED MINOR/MAJOR CONTOURS.

COMPOST FILTER SOCK SIZING

SOCK NUMBER:	SOCK SIZE (IN):
1	12
2	12
3	12
4	12
5	32
6	32
7	32
8	32
9	24
10	24
11	12
12	12
13	12

- NOTES:
- CLEARING AND GRUBBING SHALL ONLY OCCUR WITHIN OF THE LIMITS OF DISTURBANCE. REFER TO LANDSCAPE PLANS FOR TREE PRESERVATION (SHEET L0.01) AND TREE REPLACEMENT SCHEDULE (SHEET 5.00)

Fukui Architects Pc
 205 Ross Street
 Pittsburgh, Pennsylvania 15219
 ph 412.281.6001 fx 412.281.6002

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RED SWING GROUP
 ENGINEERS & SURVEYORS
 4314 OLD WILLIAM PENN HWY
 SUITE 101
 MONROEVILLE, PA 15146
 OFFICE: 724.325.1215



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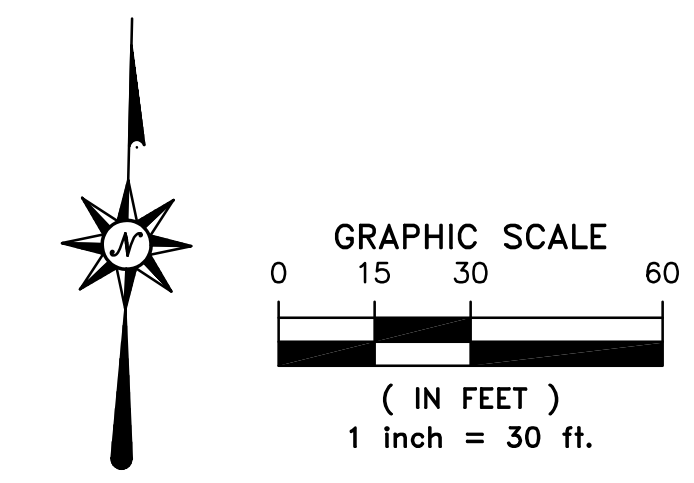
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 Pittsburgh, PA 15219

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EROSION AND SEDIMENTATION CONTROL PLAN

811
 Know what's below.
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 PA ONE CALL SERIAL No. 20212440872 AS PER CALL FOR MAPS BY RED SWING GROUP SEPTEMBER 1st, 2021



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 PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS NOTICE IN DESIGN STAGE. STOP CALL PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776

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date	December 10, 2021	
no.	of.	