Northview Heights Midrise

New Water Tank & Hydrant for Private Fire Protection 246 Penfort Street, Pittsburgh, PA 15214

Contact Schedule

Note: Any questions concerning the Construction Documents shall first be directed to the Architect. The Architect will forward questions as appropriate to the consulting engineers.

Owner:

Allies & Ross Management and Development, Corp. 200 Ross Street, Floor 9 Pittsburgh, PA 15219 ph: 412.456.5000

HACP 200 Ross Street, Pittsburgh, PA 15219 contact: Jerome Frank jerome.frank@hacp.org

contact: Jerome Frank

Architect:

Fukui Architects, PC 205 Ross Street Floor 2 Pittsburgh, PA 15219 ph: 412.281.6001 fx: 412.281.6002 kento@farpc.com contact: Kento Ohmori, AIA

MEP Engineer:

Iams Consulting, LLC 807 James Street Suite 301 Pittsburgh, PA 15212 ph: 412.697.3590 jiams@iamsconsulting.com contact: Jonathan C. Iams, P.E

Sci-Tek Consultants, Inc. 655 Rodi Road Suite 303 Pittsburgh, PA 15235 ph: 412.371.4460 contact: Jason Baguet

Structural Engineer:

Providence Engineering, Corp. 4955 Steubenville Pike, Suite 219 Pittsburgh, PA 15205 ph: 412.407.2250 nateb@proveng.com contact: Nate Babyak, P.E.

Geotechincal Engineer: Civil Engineer:

Red Swing, Group Penn Office Building 4314 Old William Penn Hwy, Suite 101 Monreville, PA 15146 ph: 724.325.1215 matthew.smith@redswinggroup.com contact: Matthew E. Smith, P.E.

Engergy Performance Engineer:

Building Performance Architecture, LLC. 2121 Noblestown Road, Pittsburgh, PA 15205 ph: 412.441.1075 rhosken@buildingperformarch.com contact: Rob Hosken, AIA, C.E.M.

Landscape Architect:

UpStudio Landscapes, LLC. 606 Liberty Ave Suite 226 Pittsburgh, PA 15222 ph: 412.203.3524 contact: Elizabeth A. Dugan, PLA

Plan Review & Inspection:

City of Pittsburgh Department of permits, Licenses and Inspections 200 Ross Street 3rd floor, room 320 Pittsburgh, PA 15205 ph: 412.255.2175

Code Conformance Information

Applicable Codes Accessibility:

2015 International Building Code 2018 IBC Chapter 11 and related provisions in other chapters Section 504 of the Federal Rehabilitation Act of 1973 The Fair Housing Act of 1988 7 Fair Housing Design Manual Uniform Federal Accessibility Standards (UFAS) PFHA Visitablity (per Submission Guide Section 1.08) 2015 International Energy Conservation Code

Electrical: 2014 NEC (NFPA 70) 2015 International Fire Code Fuel Gas: 2015 International Fuel Gas Code Mechanical: 2015 International Mechanical Code Plumbing: 2017 Allegheny County Health Department Plumbing Code Fire Alarm: 2013 NFPA 72 2013 NFPA 13

Water Tank for Private Fire Protection: 2013 NFPA 22

205 Ross Street Pittsburgh, Pennsylvania 15219 ph 412.281.6001 fx 412.281.6002

Fukui Architects Pc

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general notes

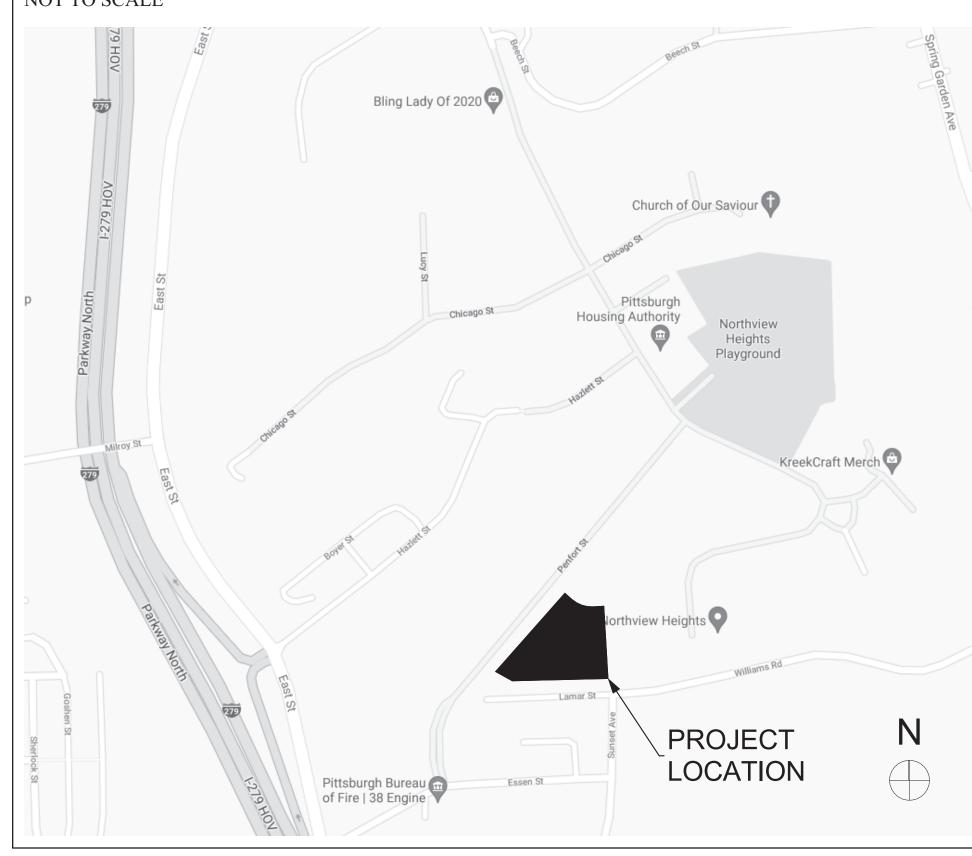
Any conflicts in the drawings or between new and existing construction shall be referred to the Architect.

- 2. 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
- 3. All work shall be installed in accordance with applicable codes and regulations.
- 4. Contractor shall be responsible for the patching, repairing, and preparations of all existing floor, wall, and ceiling surfaces as required to receive scheduled finishes.
- 5. All items shown on drawings are finished construction assemblies. Contractor shall provide and install all material required for finished assemblies.
- **6.** 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.

PHFA Project No. 2021-156

Project Location

PITTSBURGH, PENNSYLVANIA NOT TO SCALE



Abbrev	iations				
A.F.F.	Above Finish Floor	EQUIP.	Equipment	MISC.	Miscellaneous
A.P.	Access Panel	E.F.	Exhaust Fan	IVIISC.	
ACOUST.	Acoustical	EXIST.	Existing	N.I.C.	Not In Contract
A.C.T.	Acoustical Ceiling Tile	EXP.	Expansion	N.T.S.	Not To Scale
ADH.	Adhesive	E.J.	Expansion Joint		Not 10 Scale
ADJUST.		ESH	Exterior Sheathing	O.C.	On Center
A/C	Adjustable Air Conditioning	EXIST.	Existing	OPP.	Opposite
ALT.	Alteration	EXP.	-	O.H.	Overhead
ALTN.	Alternate	EXT.	Exposed Exterior	О.п.	Overnead
ALTN. ALUM.		E.I.F.S.		PR.	Pair
ALOM. A.O.R.	Aluminum	E.I.F.S.	Exterior Insulation & Finish System	PLAS.	Plaster
	Area of Refuge	F.R.P.	Fiberglass Reinforced Polyester	PLAS.LAM.	Plastic Laminate
APPROX.	Approximate	F.F.	Finish Floor	P.C.	Plumbing Contractor
ARCH.	Architectural	FIN	Finish	PLYWD.	Plywood
ASB.	Asbestos	FIN.FLR.	Finish Floor	POLY.	Polyethylene
ASPH.	Asphalt	F.A.C.P.	Fire Alarm Control Panel	P.V.C.	Polyvinyl Chloride
AUTO.	Automatic	F.E.		PRE-FAB.	Prefabricated
AVG.	Average	FLR.	Fire Extinguisher Floor	I INL-I AD.	i i ciabildated
BLK.	Block	F.D.	Floor Floor Drain	RE.	Refer To
BD.	Board	FTG.		REF.	Refrigerator
BOT	Bottom	FIG.	Footing	R.C.P.	Reinforced Concrete Pipe
BLDG	Building	GA.	Causa	REINF.	Reinforcement
DEDO	Building	G.C.	Gauge	RD.	Roof Drain
C.I.P.	Cast In Place	G.F.I.	General Contractor	RM.	Room
C.B.	Catch Basin	G.F.I. GYP.	Ground Fault Interrupter	KIVI.	Room
CEM.	Cement		Gypsum	S.A.T.	Suspended Acoustical Tile
CER.	Ceramic	G.W.B.	Gypsum Wall Board	SCHED.	Schedule
CG	Corner Guard	GSH	Gypsum Sheathing	SHT.	Sheet
C.M.T.	Ceramic Mosaic Tile	H/C	Handicap	SIM.	Similar
C.W.T.	Ceramic Wall Tile	H.V.A.C.	Heating, Ventilation &	S.C.	Solid Core
C.O.	Cleanout	HT	-	SPECS.	Specifications
		HC	Height Hollow Core	SQ.	Square
ု	Center Line	H.M.	Hollow Metal	S.F.	Square Foot
CLO.	Closet	HORIZ.		S.S.	Stainless Steel
C.W.	Cold Water		Horizontal	S.S. STL.	Steel
CLG.	Ceiling	HR. H.W.	Hour Hot Water	STOR.	
COL.	Column		Hot water		Storage
CONC.	Concrete	IN.		STRUCT.	Structural
C.M.U.	Concrete Masonry Unit		Inch	TEL.	Telephone
CONT.	Continuous	I.M.	Insulated Metal	THK.	Thick
CORR.	Corridor	INSUL.	Insulation or Insulated	T.B.D.	
C.M.P.	Corrigated Metal Pipe	INT.	Interior	T&G	To Be Determined
CRS.	Courses	INV.	Invert	T.O.	Tongue & Groove
		ISO.	Isolation	T.G.	Top Of
DIA.	Diameter				Top Of Grade
DET	Detail	JAN.	Janitor's Closet	T.O.S. TYP.	Top Of Steel
DGL	Dens Glass Gold	J.T.	Joint		Typical
DR.	Door	1.004	Laminate	UNFIN.	Unfinished
DN.	Down	LAM.		U.N.O.	Unless Noted Otherwise
D.S.	Downspout	LAV.	Lavatory	VD	Vanor Parrier
DWG.	Drawing	LG.	Long	V.B.	Vapor Barrier
D.F.	Drinking Fountain		Madison Danath Files	VFY	Verify In Field
D.I.P.	Ductile Iron Pipe	M.D.F.	Medium Density Fiberboard	V.I.F.	Verify In Field
		M.D.H.	Magnetic Door Holder	VERT.	Vertical
EA.	Each	M.H.	Manhole	VEST.	Vestibule
E.W.	Each Way	MFGR.	Manufacturer	V.C.T.	Vinyl Composition Tile
ELEC.	Electrical	MAX.	Maximum	W.H.	Water Heater
E.C.	Electrical Contractor	MECH.	Mechanical	W.W.F.	Welded Wire Fabric
EL.	Elevation	MET.	Metal	WIN.	Window
ELEV.	Elevation	MIN.	Minimum	W/	With
				W/O	Without
				WD.	Wood
		1			

Drawing Index

SHEET	REVISION #	<u>DATE</u>
TITLE SHEET TS01 COVER SHEET	16	2023/01/11

Scope of Work Summary

for an already bid scope of work.

the Fire Water Storage Tank system.

General Contractor

The Bid Documents are comprised of Drawings and Specifications of a larger set

The Fire Storage Tank system encompasses routing the 6" fire protection

service line from the private Housing Authority of Pittsburgh (HACP) main

line on Penfort Street, through a new meter vault, to the building and onsite

fire hydrant. The general contractor shall route a 6" water line to a 50,000

building with a 6" tank vent with check valve. From the storage tank, a 6"

line shall be brought into the building and into a new hydrant onsite. The

general contractor shall provide the 50,000 gallon tank, deadman, fire

blocks, manhole w/ extension, etc. as described in the Bid Documents

hydrant, and all piping, valves, meter vault, switches, curb stops, thrust

necessary for the Fire Water Storage Tank system. The general contractor

shall excavate and backfill as described in the Bid Documents as necessary for

gallon polypropylene storage tank located in the ground adjacent to the

The Bid Documents are to delineate the following scope of work.

CIVIL

C100 TITLE SHEET	16	2023/01/11
C101 GENERAL NOTES	16	2023/01/11
C103 DEMOLITION PLAN	16	2023/01/11
C300 SITE DETAILS	16	2023/01/11
C301 GRADING ENLARGEMENT PLAN	16	2023/01/11
C400 POST CONSTRUCCTION STORMWATERMANAGEMENT PLA	AN 16	2023/01/11
C450 STORMWATERMANAGEMENT PLAN DETAILS (SHEET 1 OF	7) 16	2023/01/11
C451 STORMWATERMANAGEMENT PLAN DETAILS (SHEET 2 OF	7) 16	2023/01/11
C500 UTILITY PLAN	16	2023/01/11
C550 UTILITY DETAILS	16	2023/01/11
C552 FIRE TANK DETAILS	16	2023/01/11
C553 PWSA DETAILS (SHEET 1 OF 2)	16	2023/01/11
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C650 EROSION AND SEDIMENTATION CONTROL NOTES	16	2023/01/11

FIRE PROTECTION

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FP101 FIRE PROTECTION PLAN	16	2022/12/16

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 246 Penfort Street Pittsburgh, PA 15214

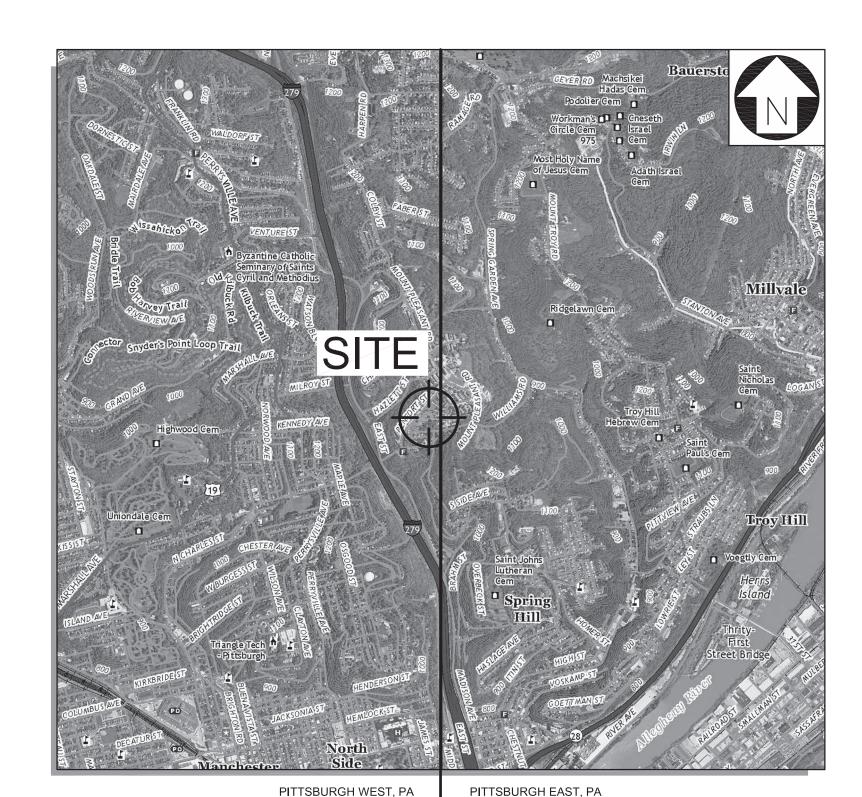
drawing title

COVER SHEET

As Noted January 11th, 2023

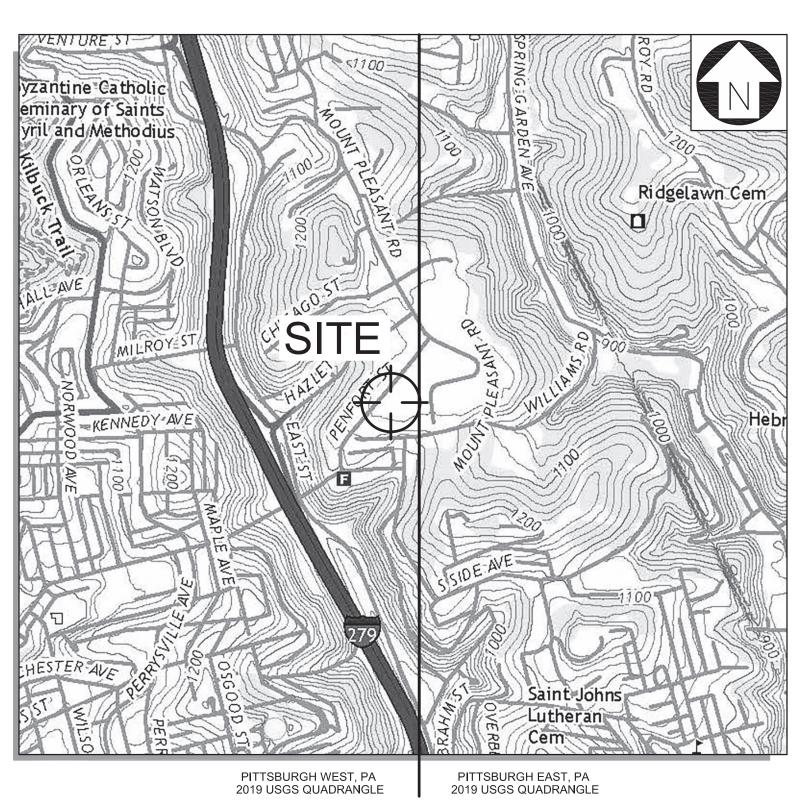
Sheet No. **TS01**

FUKUI ARCHITECTS NORTHVIEW HEIGHTS MIDRISE



USGS VICINITY MAP SCALE: 1"=2000'

2019 USGS QUADRANGLE



LOCAL MAP SCALE: 1"=1000'

C100 TITLE SHEET	16 16 3	DATE 1/11/2023 1/11/2023
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	16 3	1/11/2023
C101 GENERAL NOTES	3	
1 TOPOGRAPHIC SURVEY		3/17/2022
C103 DEMOLITION PLAN	16	1/11/2023
C200 SITE PLAN	16	1/11/2023
C201 ADA ENLARGEMENT PLAN (SHEET 1 OF 2)	16	1/11/2023
C202 ADA ENLARGEMENT PLAN (SHEET 2 OF 2)	16	1/11/2023
C203 ENTRANCE ENLARGEMENT PLAN (SHEET 1 OF 2)	16	1/11/2023
C204 ENTRANCE ENLARGEMENT PLAN (SHEET 2 OF 2)	16	1/11/2023
C250 SITE DETAILS	16	1/11/2023
C300 OVERALL GRADING PLAN	16	1/11/2023
C301 GRADING ENLARGEMENT PLAN	16	1/11/2023
C400 POST CONSTRUCTION STORMWATER MANAGEMENT PLAN	16	1/11/2023
C450 STORMWATER MANAGEMENT DETAILS (SHEET 1 OF 7)	16	1/11/2023
C451 STORMWATER MANAGEMENT DETAILS (SHEET 2 OF 7)	16	1/11/2023
C452 STORMWATER MANAGEMENT DETAILS (SHEET 3 OF 7)	16	1/11/2023
C453 STORMWATER MANAGEMENT DETAILS (SHEET 4 OF 7)	16	1/11/2023
C454 STORMWATER MANAGEMENT DETAILS AND PROFILES (SHEET 5 OF 7)	16	1/11/2023
C455 STORMWATER MANAGEMENT DETAILS AND PROFILES (SHEET 6 OF 7)	16	1/11/2023
C456 STORMWATER MANAGEMENT PROFILES (SHEET 7 OF 7)	16	1/11/2023
C500 UTILITY PLAN	16	1/11/2023
C550 UTILITY DETAILS	16	1/11/2023
C551 SANITARY PROFILES	16	1/11/2023
C552 FIRE TANK DETAILS	16	1/11/2023
C553 PWSA DETAILS (SHEET 1 OF 2)	16	1/11/2023
C554 PWSA DETAILS (SHEET 2 OF 2)	16	1/11/2023
C600 EROSION AND SEDIMENTATION CONTROL PLAN	16	1/11/2023
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C701 LIGHTING PLAN	16	1/11/2023
C750 LIGHTING DETAILS	16	1/11/2023

Fukui Architects Pc

205 Ross Street Pittsburgh, Pennsylvania 15219 ph 412.281.6001 fx 412.281.6002

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4314 OLD WILLIAM PENN HWY MONROEVILLE, PA 15146

OFFICE: 724.325.1215

NOT FOR CONSTRUCTION -**ISSUED FOR BID**

Any conflicts in the drawings or between new and existing

construction shall be referred to the Architect.

2. 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

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5. All items shown on drawings are finished construction assemblies. Contractor shall provide and install all material required for finished assemblies.

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→ 1 \ REVISED 2022/02/09 REVISED 2022/03/04 REVISED 2022/03/30 REVISED 2022/04/29 √ 16 \ REVISED 2023/01/11

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

TITLE SHEET

APPROVALS / PERMITTING

GENERAL NOTE

THESE DRAWINGS MAY NOT SHOW ALL UNDERGROUND PIPING AND UTILITIES. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING ALL EXCAVATION AND OTHER CONSTRUCTION ACTIVITIES.

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS. CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

As Noted

December 10, 2021

C100 Project #2040

Sheet No.

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

LAND OWNER/DEVELOPER HOUSING AUTHORITY CITY OF PITTSBURGH 200 ROSS STREET 9TH FLOOR PITTSBURGH, PA 15219 PHONE: (412) 456-5020 CONTACT: JÉROME FRANK, AIA

2019 USGS QUADRANGLE

PROJECT ENGINEER RED SWING CONSULTING SERVICES, LLC 4314 OLD WILLIAM PENN HWY, SUITE 101 MONROEVILLE, PA 15146 PHONE: (724) 325–1215 CONTACT: MATTHEW SMITH, P.E.

ARCHITECT FUKUI ARCHITECTS PC 205 ROSS STREET PITTSBURGH, PA 15219 PHONE: (412) 281-9607 CONTACT: KENTO OHMORI, AIA

SCI-TEK CONSULTANTS, INC. 665 RODI ROAD PITTSBURGH, PA 15235 PHONE: (412) 371-4460 CONTACT: JEREMY R. GATTEN

SURVEYOR

CONSTRUCTION

REVIEW / PRELIMINARY

STANDARD GENERAL NOTES:

- 1. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE RESPONSIBILITY FOR JOB SAFETY OF PERSONS AND PROPERTY.
- 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES.
- 3. CONTRACTOR IS REQUIRED TO COMPLY WITH APPLICABLE CODES, ORDINANCES, RESOLUTIONS, POLICIES, AND PROCEDURES. IN GENERAL.
- 4. CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS.
- 5. CONTRACTOR SHALL PROVIDE LIGHTS, SIGNS, BARRICADES, FLAGGERS OR OTHER DEVICES NECESSARY TO PROVIDE SAFETY.
- 6. THE CONTRACTOR SHALL RESTORE PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO IT'S ORIGINAL CONDITION, AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- 7. THE CONTRACTOR SHALL REMOVE SUBSURFACE OBSTRUCTIONS OR ABANDONED UTILITY LINES WITHIN THE DEMOLITION AREA AS PART OF THIS PROJECT.
- 8. <u>WARNING</u>: THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE LOCATIONS INDICATED. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXACT LOCATIONS OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES, AND TO PROCEED WITH GREAT CARE IN EXECUTING WORK. 72 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-242-1776.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY SITE, YARD AND GROUNDS. REMOVE AND PROPERLY DISPOSE, OFF SITE, RUBBISH, WASTE MATERIALS, LITTER, AND OTHER FOREIGN SUBSTANCES. REMOVE PETROCHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EVEN—TEXTURED SURFACE.
- 10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH OTHER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
- 11. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH OTHER CONTRACTORS PERFORMING WORK ON THE JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
- 12. THE CONTRACTOR IS REQUIRED TO HAVE COPIES OF PERMITS AND PLANS ON SITE DURING CONSTRUCTION.
- 13. CONTRACTOR SHALL VERIFY PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
- 14. THE OWNER OR THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTORS WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED WRITTEN APPROVAL OF THE OWNER OR THE OWNER'S REPRESENTATIVE.
- 15. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE OWNER OR THE OWNER'S REPRESENTATIVE, SHALL BE REPLACED AT THE CONTRACTORS EXPENSE UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
- 17. THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM FAILURE TO DO SO.
- 18. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED, AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT EXISTING IMPROVEMENTS WILL BE PROTECTED FROM DAMAGE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH AND/OR STRUCTURE IS FOUR FEET OR MORE IN DEPTH, ADEQUATE METHODS FOR PROTECTION OF WORKERS IS REQUIRED.
- 19. STATIONING HEREIN IS ALONG STREET CENTERLINE UNLESS OTHERWISE SHOWN OR INDICATED.
- 20. RETURN RADII AND CURB DATA ARE MEASURED TO BACK OF WEDGE CURB, AND TO THE FRONT FACE OF CONCRETE CURB UNLESS OTHERWISE NOTED.
- 21. UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE UTILITY OWNER. NOTIFY THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE UTILITY OWNER BEFORE EACH AND EVERY CONNECTION TO THE EXISTING SYSTEM IS MADE.
- 22. EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE LOCAL ENGINEER, AT THE CONTRACTOR'S SOLE EXPENSE.
- 23. LENGTHS AND PERCENT SLOPE OF SANITARY SEWERS AND STORM DRAINS, AS WELL AS POTENTIAL CONFLICTS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTING SUCH ENTITIES.
- 24. IF ARCHEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER EXCAVATION, EARTHWORK SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHEOLOGIST HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY.
- 25. CONTRACTOR SHALL PROVIDE TRAFFIC MAINTENANCE AND PROTECTION AS PER PADOT PUBLICATION 203.

GENERAL NOTES:

- A. IF TOPOGRAPHIC BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WAS COMPLETED BY OTHERS. RED SWING CONSULTING SERVICES, LLC WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SURVEY OR FOR DESIGN ERRORS OR OMISSIONS RESULTING FROM SURVEY INACCURACIES.
- B. PHASES OF SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE OWNER/DEVELOPER SITE WORK SPECIFICATIONS.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR RAZING AND REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, UNDERGROUND STORAGE TANKS AND OTHER EXISTING IMPROVEMENTS AS NOTED.
- D. CONTRACTOR IS TO REMOVE AND DISPOSE OF DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- E. THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- F. <u>SAFETY NOTICE TO CONTRACTOR:</u> IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
- G. CONSTRUCTION IN STATE HIGHWAY DEPARTMENT RIGHT—OF—WAY SHALL BE COORDINATED WITH THE PENNSYLVANIA D.O.T. OFFICE.

MANAGEMENT OF FILL DUE DILIGENCE DEP DOC.# 258-2182-773

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.

CLEAN FILL — UNCONTAMINATED, NONWATER—SOLUBLE, NONDECOMPOSIBLE INERT SOLID MATERIAL. THE TERM 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 RECOGNIZABLE AS SUCH. (25 PA. CODE §§ 271.101 AND 287.101) THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED.

SITE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE TECHNICAL GUIDANCE AS PUT FORTH IN THE MANAGEMENT OF FILL DOCUMENT #258-2182-773 (LATEST REV.), IN ORDER TO DETERMINE IF THE FILL TO BE USED CLASSIFIES AS CLEAN OR REGULATED FILL AND HOW THAT FILL CAN BE USED.

GENERAL UTILITY NOTES:

- 1. LENGTHS AND PERCENT SLOPE OF SANITARY SEWERS AND STORM DRAINS, AS WELL AS POTENTIAL CONFLICTS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTING SUCH ENTITIES.
- 2. UTILITIES SHALL BE INSTALLED, DISCONNECTED, AND/OR RELOCATED IN ACCORDANCE WITH THE CODES AND SPECIFICATIONS OF THAT UTILITY AUTHORITY.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR FEES ASSOCIATED WITH INSTALLATION AND INSPECTION OF UTILITY UNLESS OTHER ARRANGEMENTS ARE MADE WITH OWNER.
- 4. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO LOCATION, RELOCATION, REMOVAL AND/OR INSTALLATION OF SITE UTILITIES.
- 5. PLUMBING CONTRACTOR SHALL CONTACT LOCAL HEALTH DEPARTMENT CONCERNING FILING OF UTILITY PLAN, AND PAYMENT OF FEES RELATED TO WATER AND SANITARY SEWER LINE CONSTRUCTION.
- 6. CONTRACTOR SHALL ADJUST FRAMES AND GRATES FOR EXISTING INLETS, MANHOLES, AND VALVES TO REMAIN.
- 7. UTILITY LINES REQUIRING TESTING SHALL BE TESTED IN ACCORDANCE WITH THE UTILITY COMPANY CODES AND SPECIFICATIONS.
- 8. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.
- 9. UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE UTILITY OWNER. NOTIFY THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE UTILITY OWNER BEFORE EACH AND EVERY CONNECTION TO THE EXISTING SYSTEM IS MADE.
- 10. EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE UTILITY COMPANY, AT THE CONTRACTOR'S SOLE EXPENSE.

CONTACT LIST:

PROJECT ENGINEER

RED SWING CONSULTING SERVICES, LLC 4314 OLD WILLIAM PENN HWY, SUITE 101 MONROEVILLE, PA 15146 PHONE: (724) 325–1215 CONTACT: MATTHEW SMITH, P.E.

SURVEYOR

SCI-TEK CONSULTANTS, INC.
665 RODI ROAD
PITTSBURGH, PA 15235
PHONE: (412) 371-4460
CONTACT: JEREMY R. GATTEN

LAND OWNER/DEVELOPER

HOUSING AUTHORITY CITY OF PITTSBURGH 200 ROSS STREET 9TH FLOOR PITTSBURGH, PA 15219 PHONE: (412) 456-5020 CONTACT: JEROME FRANK, AIA

<u>ARCHITECT</u>

FUKUI ARCHITECTS PC 205 ROSS STREET PITTSBURGH, PA 15219 PHONE: (412) 281–9607 CONTACT: KENTO OHMORI, AIA

Fukui Architects Pc

205 Ross Street
Pittsburgh, Pennsylvania 15219
ph 412.281.6001 fx 412.281.6002

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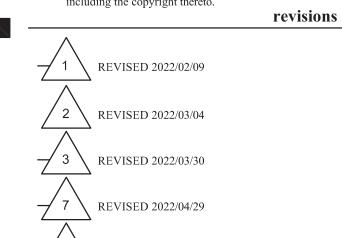
OFFICE: 724.325.1215

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16 \ REVISED 2023/01/11

project title

Owner:

HACP 200 Ross Street Pittsburgh,PA,15219

Client:

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Project Location:

Northview Heights Midrise 250 Penfort Street Pittsburgh, PA 15214

drawing title

GENERAL NOTES

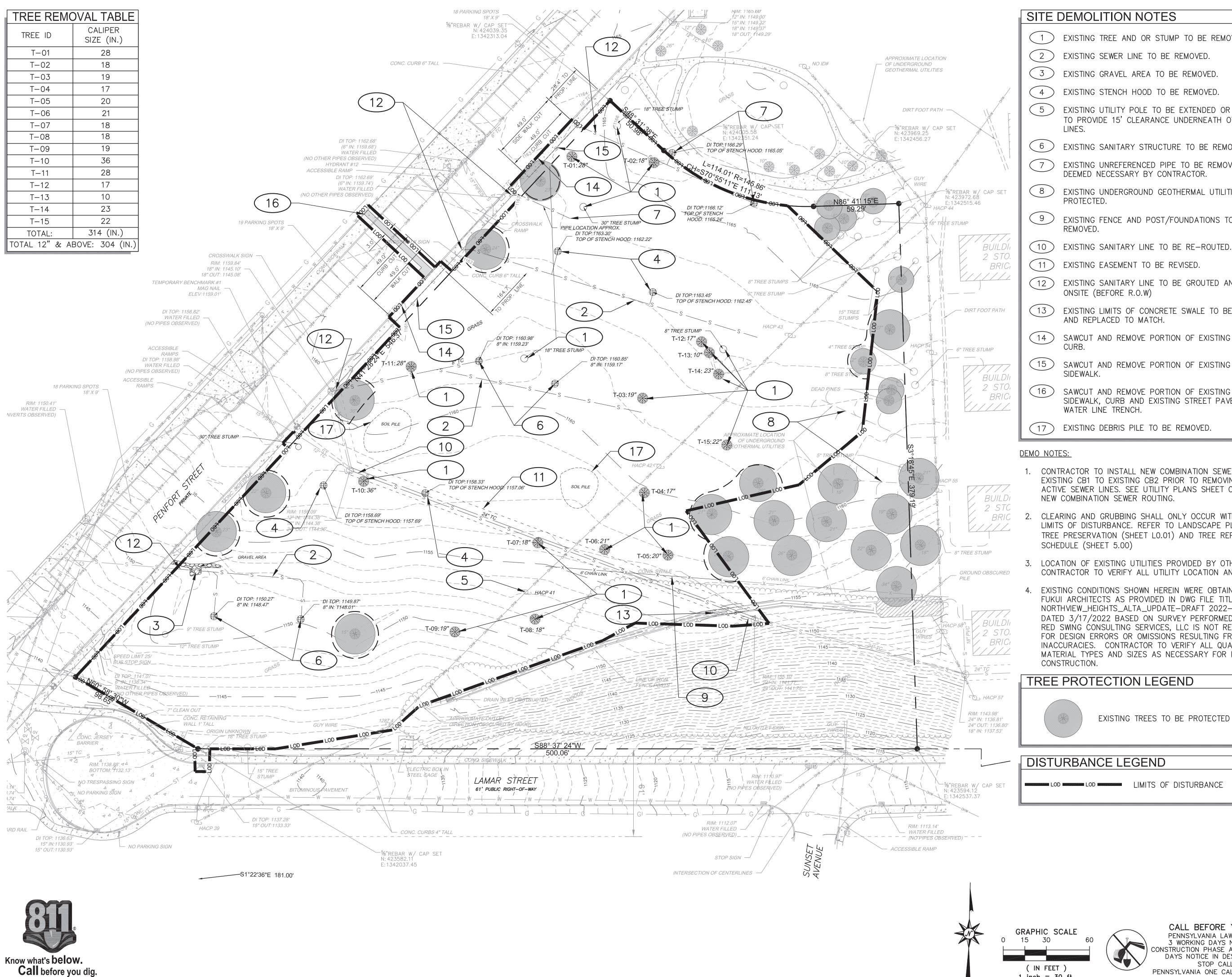
date
December 10, 2021
no. of.

18

C101

Project #2040

Sheet No.



PA ONE CALL SERIAL No. 20212440672 AS PER CALL FOR MAPS BY RED SWING GROUP SEPTEMBER 1st, 2021

SITE DEMOLITION NOTES

- EXISTING TREE AND OR STUMP TO BE REMOVED. (TYP.)
- EXISTING SEWER LINE TO BE REMOVED.
- EXISTING GRAVEL AREA TO BE REMOVED.
- EXISTING STENCH HOOD TO BE REMOVED.
- EXISTING UTILITY POLE TO BE EXTENDED OR REPLACED TO PROVIDE 15' CLEARANCE UNDERNEATH OVERHEAD
- EXISTING SANITARY STRUCTURE TO BE REMOVED.
- EXISTING UNREFERENCED PIPE TO BE REMOVED IF DEEMED NECESSARY BY CONTRACTOR.
- EXISTING UNDERGROUND GEOTHERMAL UTILITIES TO BE
- EXISTING FENCE AND POST/FOUNDATIONS TO BE
- EXISTING EASEMENT TO BE REVISED.
- EXISTING SANITARY LINE TO BE GROUTED AND CAPPED
- ONSITE (BEFORE R.O.W)
- EXISTING LIMITS OF CONCRETE SWALE TO BE SAWCUT AND REPLACED TO MATCH.
- SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE
- SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE
- SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE SIDEWALK, CURB AND EXISTING STREET PAVEMENT FOR WATER LINE TRENCH.
 - EXISTING DEBRIS PILE TO BE REMOVED.
- CONTRACTOR TO INSTALL NEW COMBINATION SEWER FROM EXISTING CB1 TO EXISTING CB2 PRIOR TO REMOVING EXISTING ACTIVE SEWER LINES. SEE UTILITY PLANS SHEET C500 FOR NEW COMBINATION SEWER ROUTING.
- 2. CLEARING AND GRUBBING SHALL ONLY OCCUR WITHIN OF THE LIMITS OF DISTURBANCE. REFER TO LANDSCAPE PLANS FOR TREE PRESERVATION (SHEET LO.01) AND TREE REPLACEMENT SCHEDULE (SHEET 5.00)
- 3. LOCATION OF EXISTING UTILITIES PROVIDED BY OTHERS. CONTRACTOR TO VERIFY ALL UTILITY LOCATION AND SIZES.
- 4. EXISTING CONDITIONS SHOWN HEREIN WERE OBTAINED FROM FUKUI ARCHITECTS AS PROVIDED IN DWG FILE TITLED NORTHVIEW_HEIGHTS_ALTA_UPDATE-DRAFT 2022-3-17 AND DATED 3/17/2022 BASED ON 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

TREE PROTECTION LEGEND

EXISTING TREES TO BE PROTECTED (TYP.)

DISTURBANCE LEGEND

LIMITS OF DISTURBANCE

Fukui Architects Pc

205 Ross Street Pittsburgh, Pennsylvania 15219

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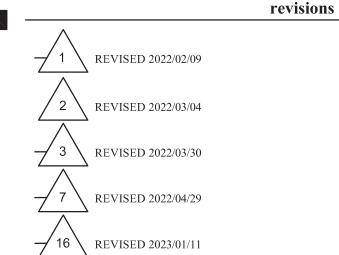
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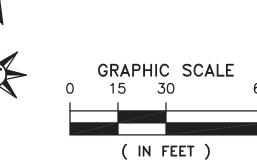
Project Location:

Northview Heights Midrise 250 Penfort Street Pittsburgh, PA 15214

drawing title

project title

DEMOLITION PLAN



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 PENNSYLVANIA ONE CALL SYSTEM, INC.

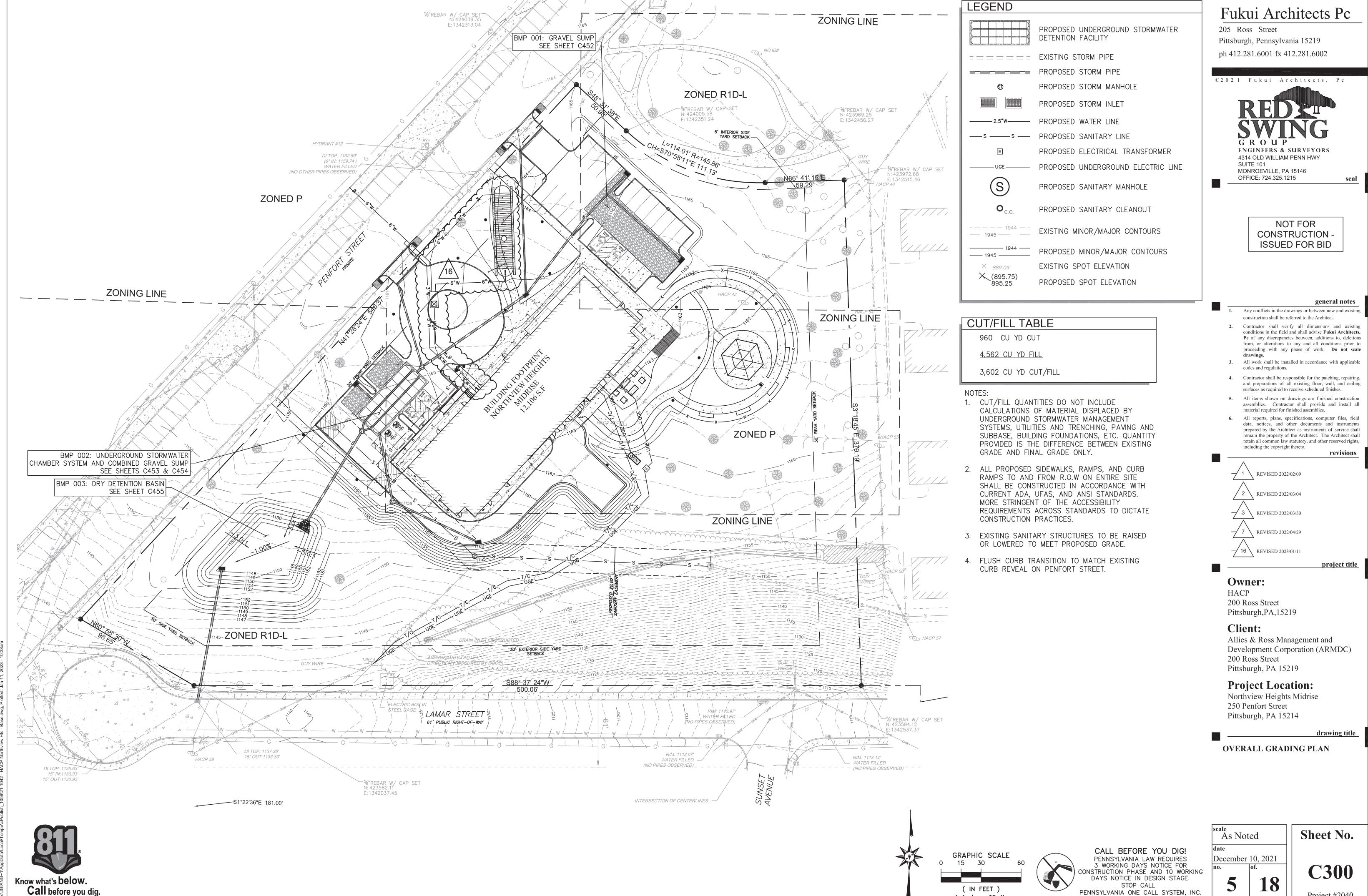
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December 10, 2021 18

As Noted

C103

Sheet No.

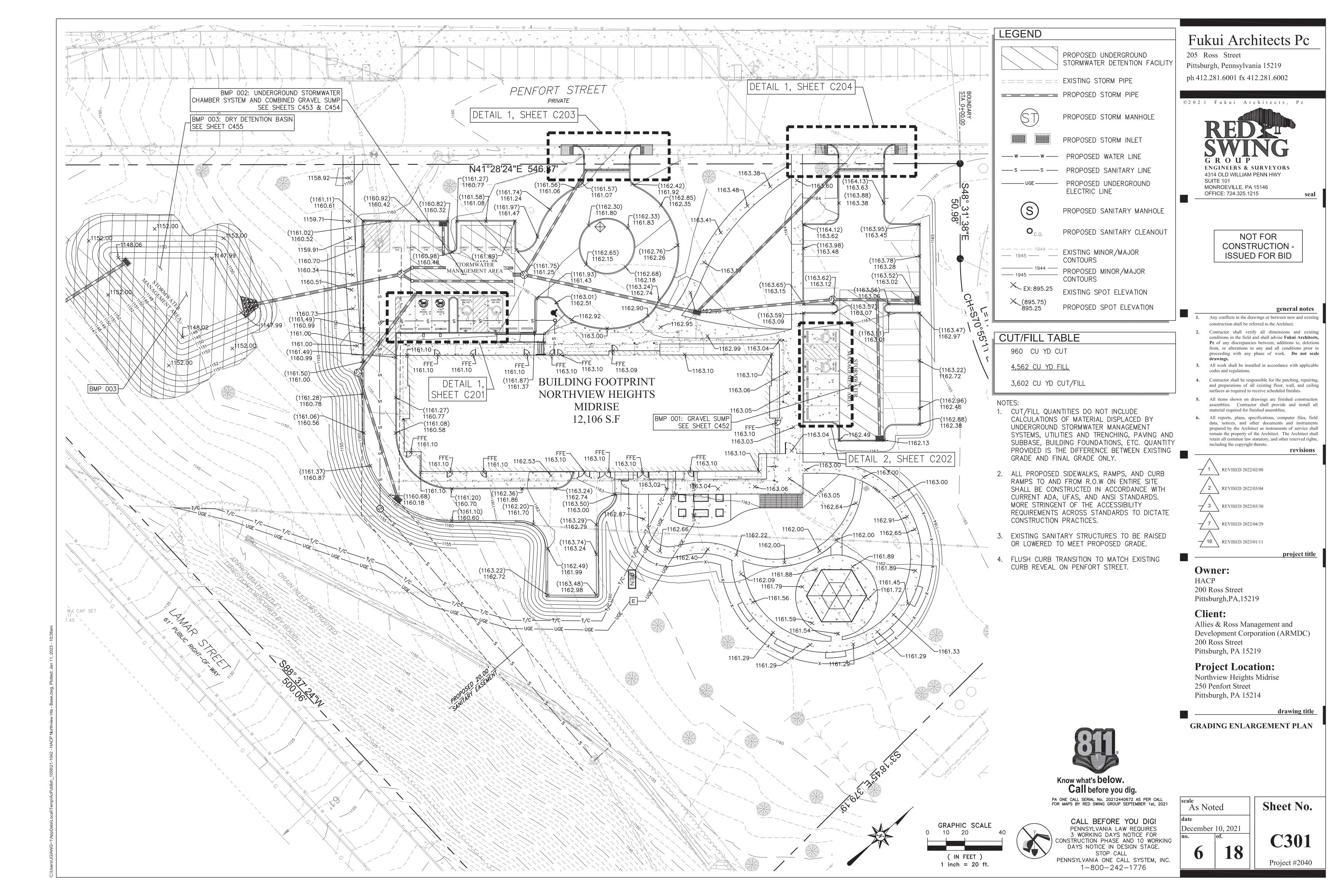


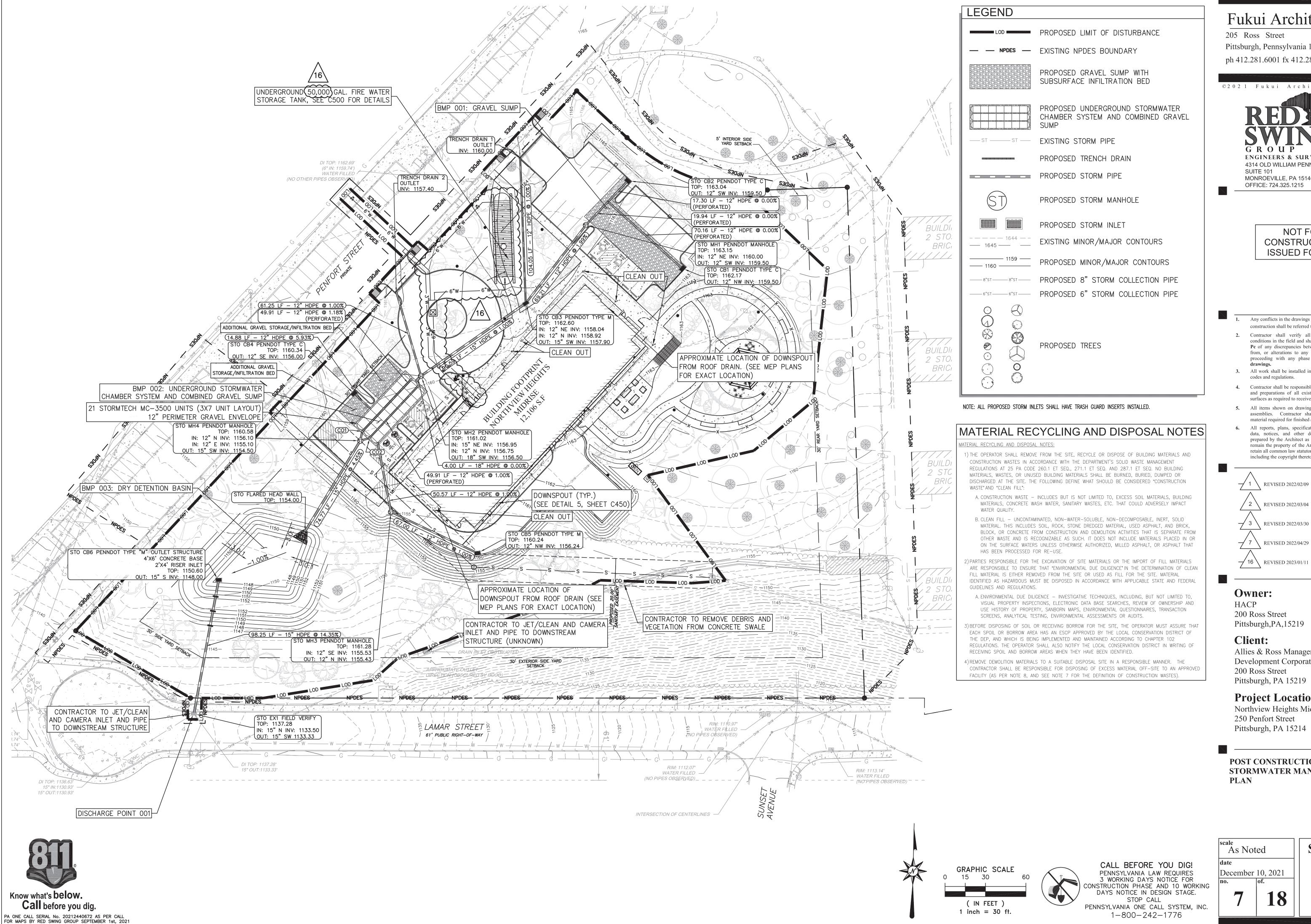
PA ONE CALL SERIAL No. 20212440672 AS PER CALL FOR MAPS BY RED SWING GROUP SEPTEMBER 1st, 2021

PENNSYLVANIA ONE CALL SYSTEM, INC.

1-800-242-1776

1 inch = 30 ft.





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ENGINEERS & SURVEYORS 4314 OLD WILLIAM PENN HWY

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revisions 1 \ REVISED 2022/02/09 REVISED 2022/03/04 REVISED 2022/03/30 REVISED 2022/04/29

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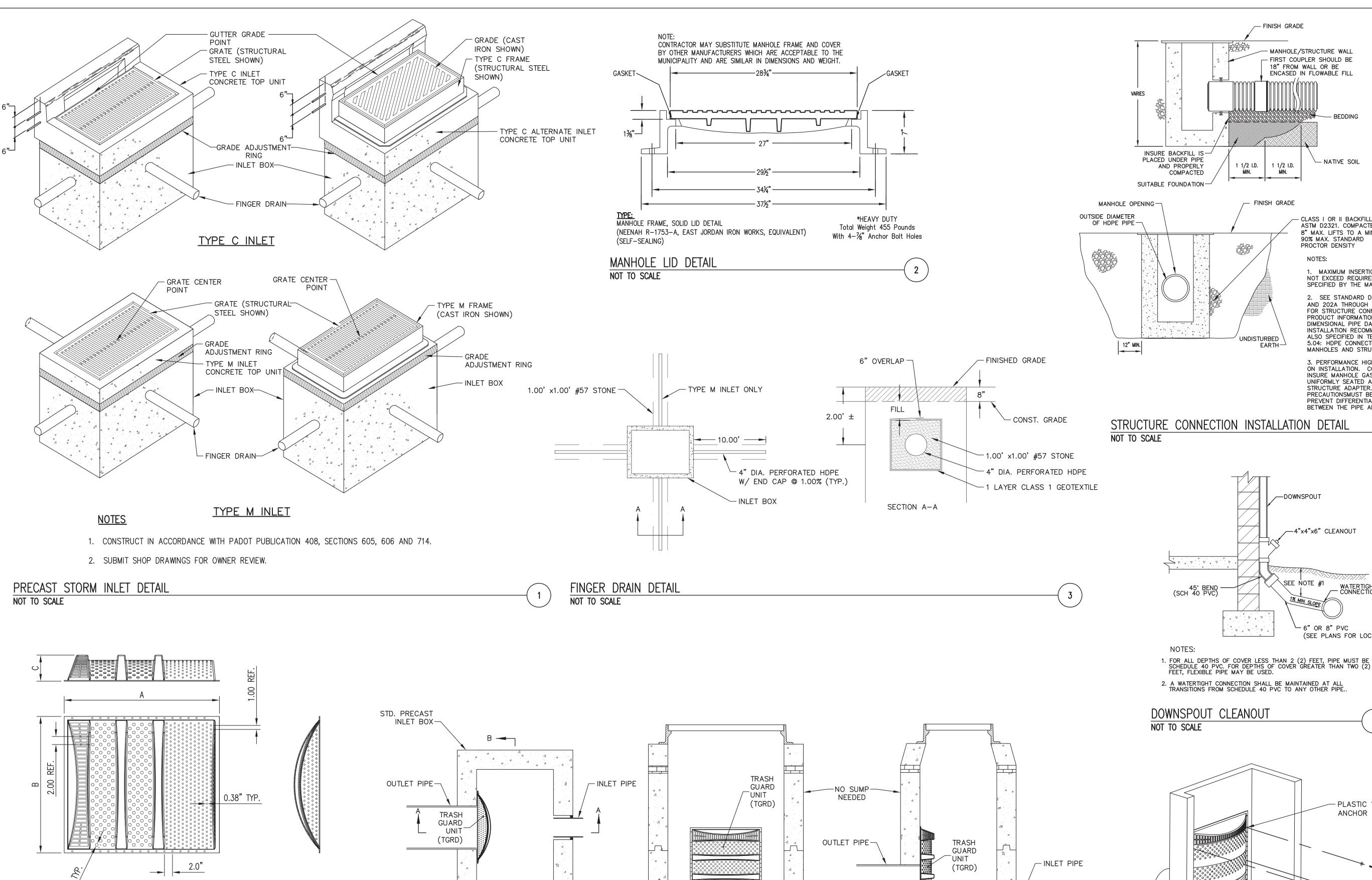
project title

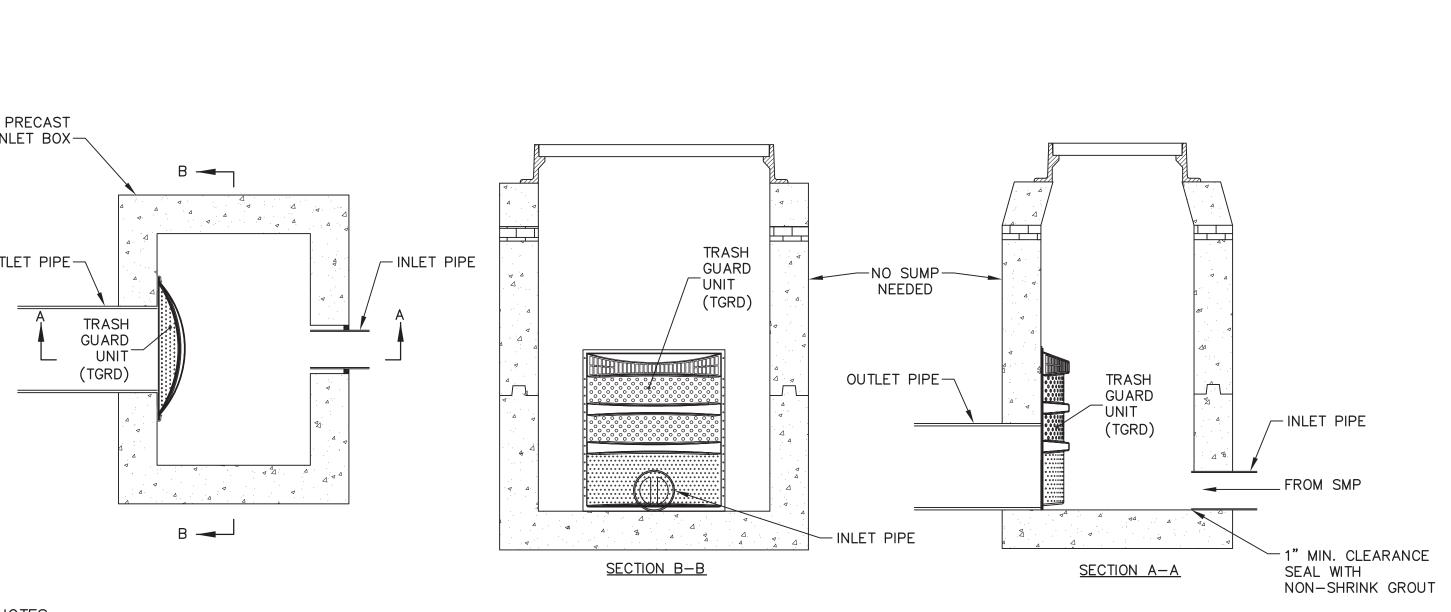
POST CONSTRUCTION STORMWATER MANAGEMENT

As Noted

Sheet No.

C400





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Pittsburgh, Pennsylvania 15219 ph 412.281.6001 fx 412.281.6002

- FINISH GRADE

1 1/2 I.D.

FINISH GRADE

UNDISTURBED

-DOWNSPOUT

—4"x4"x6" CLEANOUT

SEE NOTE #1 WATERTIGHT CONNECTION

- 6" OR 8" PVC

(SEE PLANS FOR LOCATIONS)

- PLASTIC WALL

1.75 INCH X 0.25 INCH

STAINLESS STEEL

SCREW (TYP PER 6)

ANCHOR (TYP PER 6)

1 1/2 I.D. MIN.

- MANHOLE/STRUCTURE WALL

18" FROM WALL OR BE

- FIRST COUPLER SHOULD BE

ENCASED IN FLOWABLE FILL

- NATIVE SOIL

- CLASS I OR II BACKFILL PER ASTM D2321. COMPACTED IN

8" MAX. LIFTS TO A MIN. OF

1. MAXIMUM INSERTION ANGLE SHALL

2. SEE STANDARD DETAILS STD-202 AND 202A THROUGH STD-204 (A-F)

INSTALLATION RECOMMENDATIONS ARE ALSO SPECIFIED IN TECHNICAL NOTE

3. PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST

NOT EXCEED REQUIREMENTS AS

FOR STRUCTURE CONNECTIONS,

PRODUCT INFORMATION AND DIMENSIONAL PIPE DATA.

5.04: HDPE CONNECTIONS TO MANHOLES AND STRUCTURES.

INSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND

STRUCTURE ADAPTER. EXTRA

PRECAUTIONSMUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT

BETWEEN THE PIPE AND MANHOLE.

SPECIFIED BY THE MANUFACTURER.

90% MAX. STANDARD

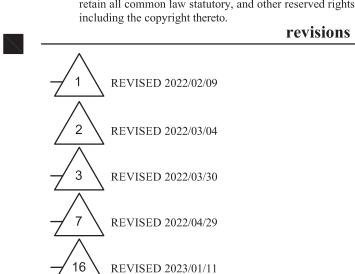
PROCTOR DENSITY



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drawing title

Project #2040

project title

STORMWATER MANAGEMENT **DETAILS SHEET 1 OF 7**

As Noted December 10, 2021

Sheet No. C450 18 8

TRASHGUARD PLUS UNIT INSTALLATION DETAIL NOT TO SCALE

ALUMINUM FLAT

WASHER (TYP PER 6)

TRASHGUARD PLUS DETAIL NOT TO SCALE

NOT TO SCALE

TRASHGUARD PLUS GREEN INLET DETAIL

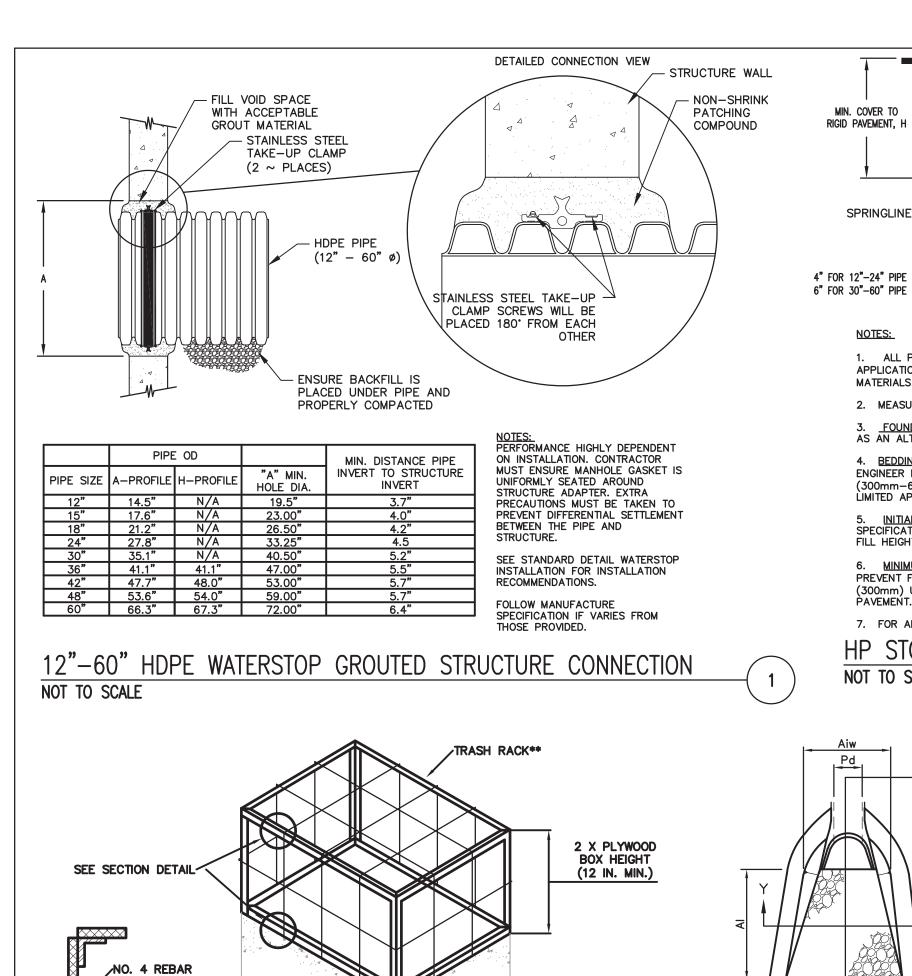
TRASHGUARD PLUS DIMENSIONS MODEL/SIZE OUTLET PIPE DIA. TGRD23X24P 26.51" 23.00" 6.39" ≤15" 6.29" TGRD28X30P 28.00" 33.15" ≤18" 34.00**"** 6.37" TGRD34X36P 36.67" ≤24"

TRASH GUARD PLUS (TGRD) UNIT AND "PWD TGP HARDWARE KIT" TO BE PROVIDED BY ACF ENVIRONMENTAL 2. SEE TRASH GUARD INSTALLATION DETAIL FOR GUIDANCE ON INSTALLING UNIT.

3. SEE TRASHGUARD UNIT DETAILS FOR SYSTEM DIMENSIONS AND AVAILABLE SIZES.

4. "RAIL STOP BOLT" NOT NEEDED FOR THIS APPLICATION

5. NO "SUMP" IS REQUIRED FOR THE TRASHGUARD PLUS TO FUNCTION CORRECTLY.



ANGLE (TYP)

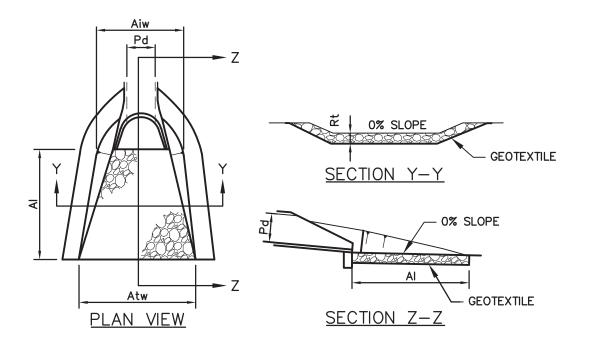
ALL JOINTS SHALL BE WATER TIGHT.

CONCRETE BOX

OF THE BARREL MAX.

NOT TO SCALE

SECTION DETAIL



7. FOR ADDITIONAL INFORMATION SEE TECHNICAL NOTE 2.04.

HP STORM TRENCH INSTALLATION DETAIL

THICK. LENGTH WIDTH | WIDTH SIZE Aiw Atw (IN) (FT) (FT)

SPRINGLINE -

NOTES:

NOT TO SCALE

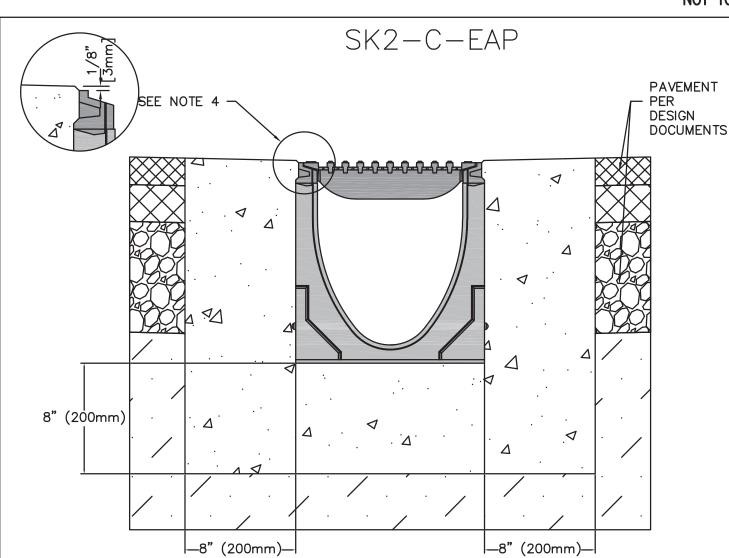
** TRASH RACK COMPOSED OF 1 IN. X 1 IN. X 1/8 IN. L (TYP.) AND #4 BARS (TYP.) WELDED TO THE ANGLES AND AT EACH INTERSECTION OF THE BARS; #4 BARS SPACED AT HALF THE DIAMETER ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.

ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF

EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY STANDARD CONSTRUCTION DETAIL #9-1

RIPRAP APRON AT PIPE OUTLET WITH FLARED END SECTION OR ENDWALL NOT TO SCALE

RIPRAP APRON AT PIPE OUTLET WITH FLARED END SECTION OR ENDWALL NOT TO SCALE



* 3/4 IN. PRESSURE TREATED PLYWOOD BOX WITH 2 IN. X 2 IN. PRESSURE TREATED CORNER

BOX SHALL BE BOLTED, STRAPPED, OR OTHERWISE SECURED TO THE PERMANENT RISER.

STANDARD CONSTRUCTION DETAIL #7-10

TRASH RACK FOR PERMANENT STRUCTURE

SUPPORTS, SET INTO 1-1/2 IN. GRATE OFFSETS, CAULK ALL SEAMS TO FORM WATERTIGHT SEALS.

CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER.

NOTES:

1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. ENGINEERING ADVICE MAY BE REQUIRED.

2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS. . EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. ENGINEERING ADVICE MAY BE REQUIRED.

. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3 mm] ABOVE THE TOP OF THE CHANNEL EDGE. 5. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO

DETERMINE PROPER LOAD CLASS. 6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS. **SPECIFICATION CLAUSE**

POWERDRAIN S200K - LOAD CLASS C

<u>GENERAL</u> THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE S200K CHANNEL SYSTEM WITH DUCTILE IRON EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN DUCTILE IRON EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS: COMPRESSIVE STRENGTH 14,000 PSI 4,000 PSI FLEXURAL STRENGTH: 1,500 PSI TENSILE STRENGTH: WATER ABSORPTION: 0.07% FROST PROOF YES DILUTE ACID AND ALKALI RESISTANT **B117 SALT SPRAY TEST COMPLIANT**

THE SYSTEM SHALL BE 8" (200mm) NOMINAL INTERNAL WIDTH WITH A 10.2" (260mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING EITHER THE 'POWERLOK' BOLTLESS LOCKING SYSTEM OR THE 4 BOLT LOCKING OPTION. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

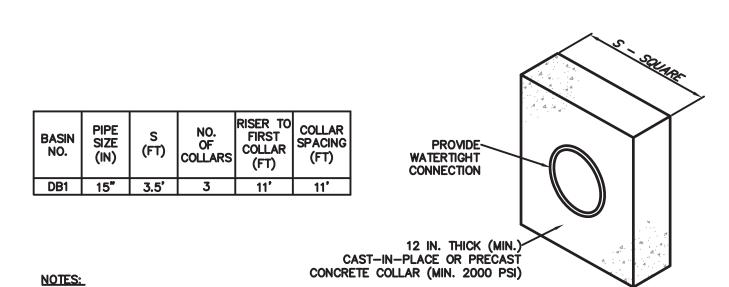


TABLE 3, MAXIMUM COVER FOR ADS HP STORM PIPE, ft CLASS II

 PIPE DIA COMPACTED
 95%
 90%
 85%
 95%
 90%
 95%

 12"
 41
 28
 21
 16
 20
 16
 16

 12
 41
 28
 21
 16
 20
 16
 16

 15"
 42
 29
 21
 16
 21
 16
 16

 18"
 44
 30
 21
 16
 22
 17
 16

 24"
 37
 26
 18
 14
 19
 14
 14

 30"
 39
 27
 19
 14
 19
 15
 14

 36"
 28
 20
 14
 10
 14
 11
 10

 42"
 30
 21
 14
 10
 15
 11
 10

 48"
 29
 20
 14
 9
 14
 10
 10

 60"
 29
 20
 14
 9
 14
 10
 9

FILL HEIGHT TABLE GENERATED USING AASHTO

PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:

SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD)

CLASS I

NO HYDROSTATIC PRESSURE

UNIT WEIGHT OF SOIL $(\gamma s) = 120$ PCF

CLASS III

ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT.

COLLAR SIZE AND SPACING SHALL BE AS INDICATED WITHIN TABLE.

TABLE 1, RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.

TABLE 2, MINIMUM RECOMMENDED COVER BASED ON

VEHICLE LOADING CONDITIONS

H-25

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW

APPLICATIONS". LATEST ADDITION. WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS IVB

3. <u>FOUNDATION:</u> WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

(300mm-600mm) DIAMETER PIPE; 6" (150mm) FOR 30"-60" (750mm-1500mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED. PLEASE NOTE, CLASS IV MATERIAL HAS

5. <u>INITIAL BACKFILL:</u> SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.

6. MINIMUM COVER; MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS; CLASS I OR II MATERIAL COMPACTED TO 90% SPD AND CLASS III COMPACTED TO 95% SPD IS REQUIRED. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12"

(300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE SPECIFIED BY THE

ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24"

SURFACE LIVE LOADING CONDITION
HEAVY CONSTRUCTION

(75T AXLE LOAD) *

MIN. COVFR TO

FLEXIBLE PAVEMENT, H

BACKFILL

BACKFILL

- INITIAL

- HAUNCH

- SUITABLE

FOUNDATION

MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.

IMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.

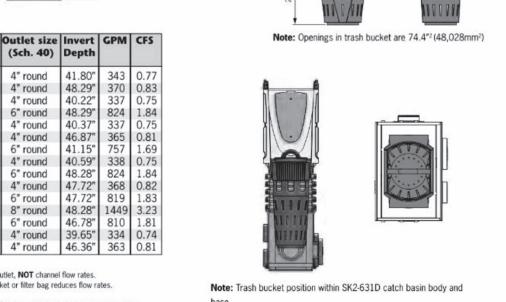
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED

MIN TRENCH WIDTH

(SEE TABLE)

STANDARD CONSTRUCTION DETAIL #7-16
CONCRETE ANTI-SEEP COLLAR FOR PERMANENT BASINS NOT TO SCALE

ACO DRAIN SK2-631D Catch basin SK2-631D Catch Basin Outlet flow rates Note: Openings in trash bucket are 74.4"2 (48,028mm²) (Sch. 40) Depth 4" round 41.80" 343 0.77 A Type SK2-631D B Type SK2-631D Type SK2-631D D Type SK2-631D 6" round | 48.29" | 824 | 1.84 Type SK2-6311 4" round 46.87" 365 0.81 F Type SK2-631D 6" round 41.15" Type SK2-631D



N Type SK2-631D Type SK2-631D 1. These are the pipe flow rates at the specified outlet, NOT channel flow rates *Flow rates without trash bucket - using trash bucket or filter bag reduces flow rates 2. 4" diameter foul air trap, part# 90854, can be fitted to catch basin base at outlet positions 3. Riser can be cut down in 1" incremen

4. Fits PowerDrain S200K systems Type SK2-631D Catch basin - 19.69" (0.5"m) SK2 ductile iron slotted grate 19.69" (0.5m) (Load class F) - 02449 - SK2 ductile iron longitudinal grate 19.69* (0.5m) (Load class E) - 72263 Foul air trap - fits both Type 900 & Type 600 basins - SK2 ductile iron 4-bolt grate 19.69* (0.5m) 01318 QuickLok grate removal tool (Load class F) - 99591

April 2018

H Type SK2-631D

J Type SK2-631D

Type SK2-631D

Type SK2-631D L Type SK2-631D Type SK2-631D

TRENCH DRAIN ATTACHMENT DETAIL

-#2A STONE TO 12" ABOVE SHEATHING AS REQUIRED SPRING LINE COMPACTED #2A STONE BEDDING MATERIAL

PIPE (COMPACTED TO AT LEAST 75% OF ITS RELATIVE DENSITY) BEDDING MATERIAL TO BE PLACED BEFORE SETTING PIPE. 6" MIN. UNDER BARREL 5" MIN. UNDER BELL.

3" OF CRUSHED STONE REQUIRED IN WET TRENCH OR IN ROCK, WITHOUT EXTRA COST TO OWNER. 1) THE TRENCH WALL SHALL BE SUBSTANTIALLY VERTICAL IN THE PIPE ZONE. MAXIMUM TRENCH WIDTH SHALL BE OD + 24 INCHES AND MINIMUM TRENCH

PIPE ZONE DETAIL - STORM NOT TO SCALE

SUITE 101

TOP OF SUBGRADE OR BOTTOM OF PROPOSED PAVEMENT BACKFILL W/ SELECT EXCAVATED MATERIAL PLACED & COMPACTED IN ACCORDANCE W/ NOTE 1 OPTIONAL TRENCH SLOPING (1:1 MAX.) 12" MIN. └─SEE PIPE ZONE DETAIL THIS SHEET

TRENCH SECTION - STORM NOT TO SCALE

STRUCTURE	NAME	STRUCTURE	TVDE	STRUCTURE [TAIL C	PIPES IN	PIPES OUT
CB1	NAME	PENNDOT TYP		SURFACE ELEV. = SUMP = 11 INV OUT = 1	= 1162.17 59.5	FIFES III	12" Corrugated HDPE Pip INV OUT =1159.50
CB2		PENNDOT TYP	PE C	SURFACE ELEV. = SUMP = 11 INV OUT = 1	59.5		12" Corrugated HDPE Pip INV OUT =1159.50
CB3		PENNDOT TYF	PE M	SURFACE ELEV. = SUMP = 11 INV IN = 11 INV IN = 11 INV OUT = 1	57.9 58.04 58.92	12" CORRUGATED HDPE PIPE INV IN =1158.04 12" HDPE PIPE INV IN =1158.92	15" Corrugated HDPE Pip INV OUT =1157.90
CB4		PENNDOT TYF	PE C	SURFACE ELEV. = SUMP = 11 INV OUT = 1	56.0		12" HDPE Pipe INV OUT =1156.00
CB5		PENNDOT TYF	PE M	SURFACE ELEV. = SUMP = 11 INV OUT = 1	56.2		12" HDPE Pipe INV OUT =1156.24
CB6		PENNDOT TYF	PE M	SURFACE ELEV. = SUMP = 11 INV OUT = 1	48.0		15" Corrugated HDPE Pip INV OUT =1148.00
CO1		CLEANOU ⁻	Г	SURFACE ELEV. = SUMP = 11 INV IN = 11 INV OUT = 1	56.0 56.08	12" CORRUGATED HDPE PIPE INV IN =1156.08	12" Corrugated HDPE Pip INV OUT =1155.98
CO2		CLEANOU ⁻	Γ	SURFACE ELEV. = SUMP = 11 INV IN = 11 INV OUT = 1	54.5 54.46	12" HDPE PIPE INV IN =1154.46	12" HDPE Pipe INV OUT =1155.20
MH1		PENNDOT MAN	IHOLE	SURFACE ELEV. = SUMP = 11 INV IN = 11 INV OUT = 1	59.5 60.00	12" CORRUGATED HDPE PIPE INV IN =1160.00	12" Corrugated HDPE Pip INV OUT =1159.50
MH2		PENNDOT MAN	IHOLE	SURFACE ELEV. = SUMP = 11 INV IN = 11 INV IN = 11 INV OUT = 1	56.5 56.95 56.75	15" CORRUGATED HDPE PIPE INV IN =1156.95 12" HDPE PIPE INV IN =1156.75	18" Corrugated HDPE Pip INV OUT =1156.50
мнз		PENNDOT MAN	IHOLE	SURFACE ELEV. = SUMP = 11 INV IN = 11 INV OUT = 1	55.4 55.53	12" HDPE PIPE INV IN =1155.53	12" Concrete Pipe INV OUT =1155.43
MH4		PENNDOT MAN	IHOLE	SURFACE ELEV. = SUMP = 11 INV IN = 11 INV IN = 11 INV OUT = 1	52.5 56.10 55.10	12" CORRUGATED HDPE PIPE INV IN =1156.10 12" HDPE PIPE INV IN =1155.10	15" Corrugated HDPE Pip INV OUT =1154.50
TD1		TRENCH DR	AIN	SURFACE ELEV. = SUMP = 11 INV OUT = 1	60.0		12" HDPE Pipe INV OUT =1160.00
TD2		TRENCH DR	AIN	SURFACE ELEV. = SUMP = 11. INV OUT = 1	57.4		12" HDPE Pipe INV OUT =1157.40

STORM STRUCTURE AND PIPE SCHEDULE

Fukui Architects Pc

205 Ross Street Pittsburgh, Pennsylvania 15219 ph 412.281.6001 fx 412.281.6002



NOT FOR CONSTRUCTION -**ISSUED FOR BID**

general notes

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2. 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

3. All work shall be installed in accordance with applicable codes and regulations.

4. Contractor shall be responsible for the patching, repairing and preparations of all existing floor, wall, and ceiling surfaces as required to receive scheduled finishes.

5. All items shown on drawings are finished construction assemblies. Contractor shall provide and install all material required for finished assemblies.

6. 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,

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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

project title

STORMWATER MANAGEMENT **DETAILS SHEET 2 OF 7**

As Noted December 10, 2021 **Sheet No.**

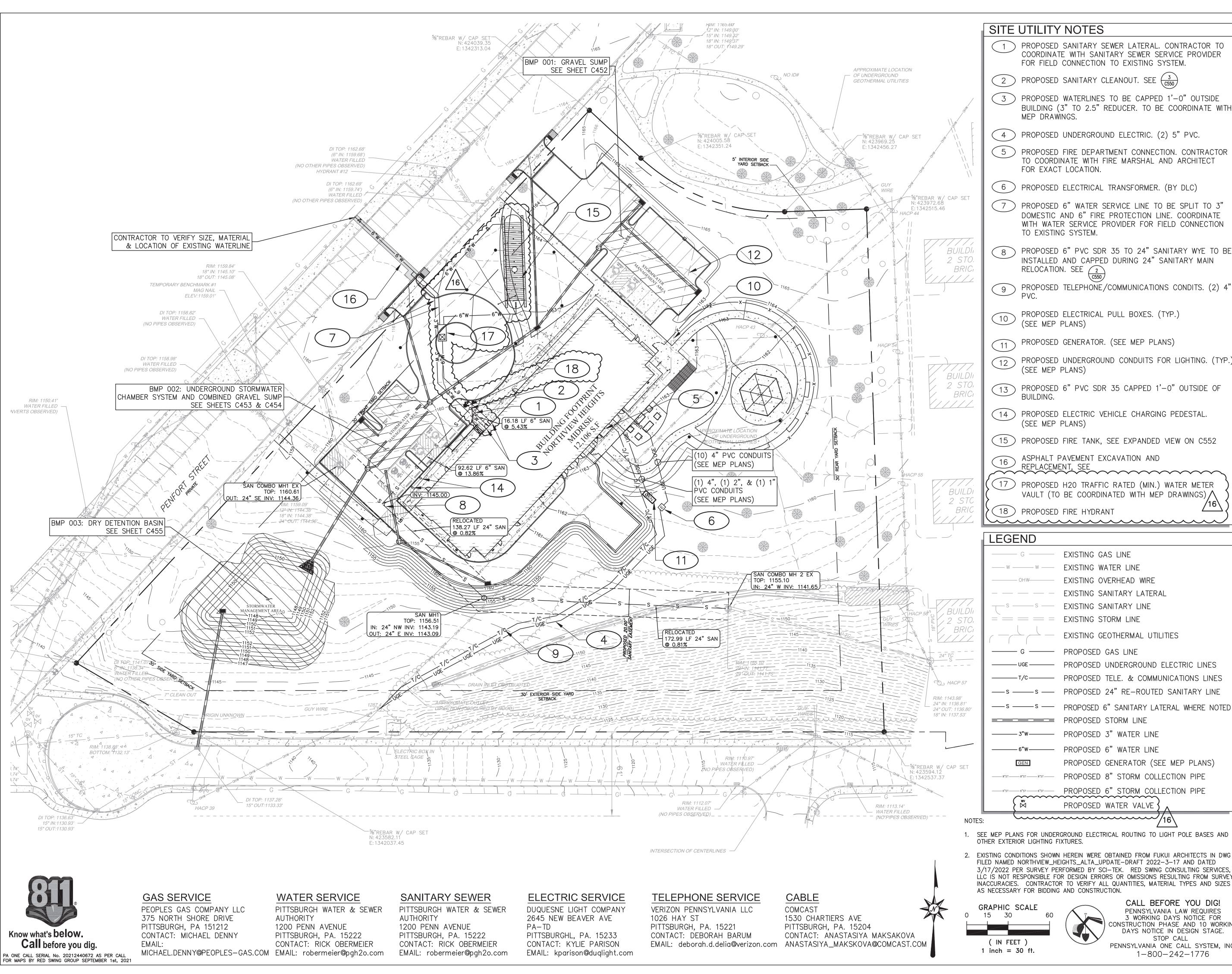
C451

Project #2040

TRENCH DRAIN DETAIL NOT TO SCALE

PERMANENT STRUCTURE

NOT TO SCALE



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general notes

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- construction shall be referred to the Architect. 2. 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

Contractor shall be responsible for the patching, repairing, and preparations of all existing floor, wall, and ceiling

assemblies. Contractor shall provide and install all

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

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retain all common law statutory, and other reserved rights,

surfaces as required to receive scheduled finishes. 5. All items shown on drawings are finished construction

material required for finished assemblies.

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2 \ REVISED 2022/03/04

REVISED 2022/03/30

REVISED 2022/04/29

Allies & Ross Management and

Development Corporation (ARMDC)

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Owner:

Client:

200 Ross Street

200 Ross Street

250 Penfort Street

UTILITY PLAN

Pittsburgh, PA 15214

Pittsburgh, PA 15219

Project Location:

Northview Heights Midrise

Pittsburgh, PA, 15219

HACP

- 3. All work shall be installed in accordance with applicable codes and regulations.
- (14) PROPOSED ELECTRIC VEHICLE CHARGING PEDESTAL. (SEE MEP PLANS)
- (15) PROPOSED FIRE TANK, SEE EXPANDED VIEW ON C552
- ASPHALT PAVEMENT EXCAVATION AND
- PROPOSED H20 TRAFFIC RATED (MIN.) WATER METER
- VAULT (TO BE COORDINATED WITH MEP DRAWINGS).
- (18)PROPOSED FIRE HYDRANT

EXISTING GAS LINE EXISTING WATER LINE EXISTING OVERHEAD WIRE EXISTING SANITARY LATERAL EXISTING SANITARY LINE EXISTING STORM LINE EXISTING GEOTHERMAL UTILITIES PROPOSED GAS LINE PROPOSED UNDERGROUND ELECTRIC LINES PROPOSED TELE. & COMMUNICATIONS LINES ——s —— s — PROPOSED 24" RE-ROUTED SANITARY LINE ----s ------ PROPOSED 6" SANITARY LATERAL WHERE NOTED PROPOSED STORM LINE PROPOSED 3" WATER LINE PROPOSED 6" WATER LINE PROPOSED GENERATOR (SEE MEP PLANS) PROPOSED 8" STORM COLLECTION PIPE _____8"ST_____8"ST_____8"ST____

1. SEE MEP PLANS FOR UNDERGROUND ELECTRICAL ROUTING TO LIGHT POLE BASES AND OTHER EXTERIOR LIGHTING FIXTURES.

PROPOSED WATER VALVE

PROPOSED 6" STORM COLLECTION PIPE

2. 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.

GRAPHIC SCALE



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

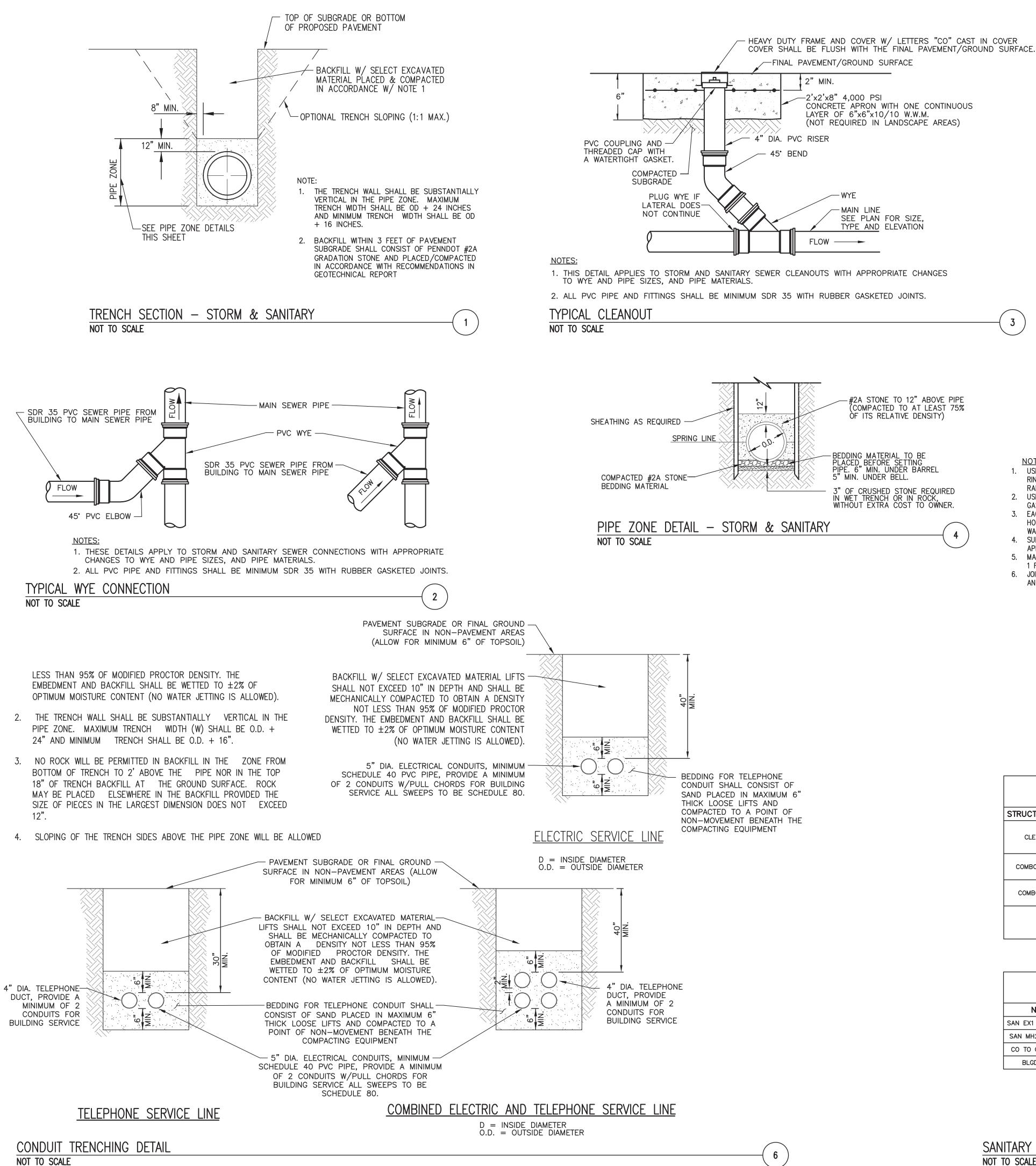
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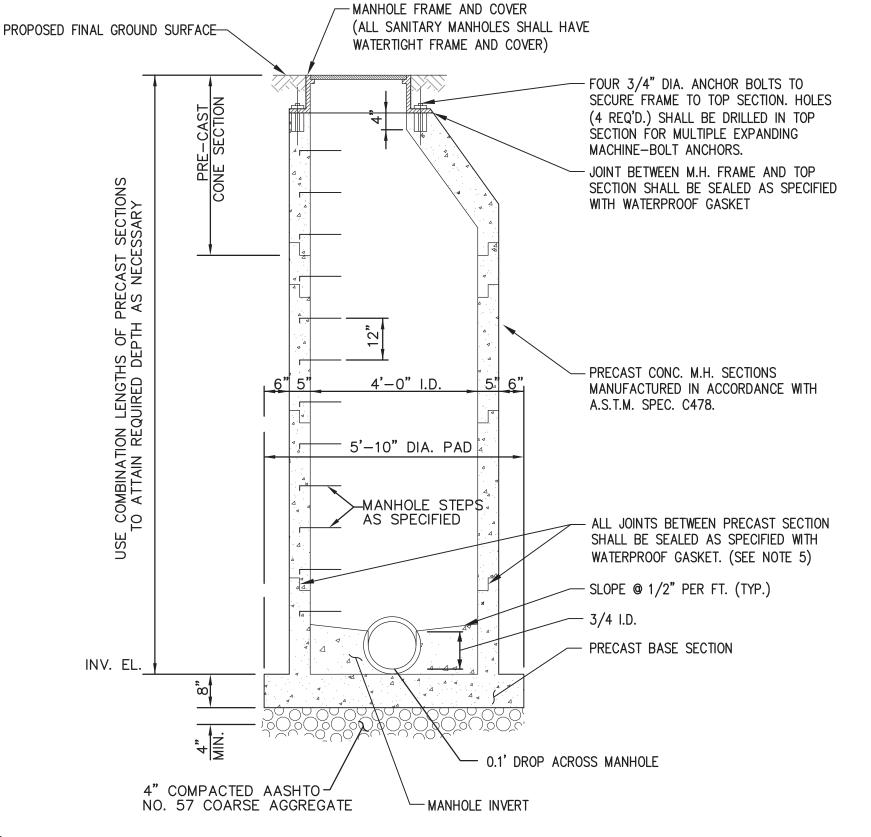
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Project #2040

As Noted

December 10, 2021





MANHOLE DIAMETER BASED ON MAXIMUM PIPE SIZE

24"

33"

36"

48"

54"

MANHOLE DIAMETER IF

60"

72"

84"

96"

STRAIGHT THRU PIPE IF 90° ANGLE PIPE

18"

27"

33"

36"

42"

IF 180° ANGLE PIPE

24"

33"

36"

48"

54"

1. USE PRECAST CONCRETE GRADE ADJUSTMENT RINGS BETWEEN TOP SECTION AND FRAME TO RAISE MANHOLE TOP HEIGHT IF NECESSARY.

USE ANCHOR BOLTS AND WATERPROOF GASKET AS SPECIFIED.

EACH SECTION TO BE SUPPLIED WITH LIFTING HOLES WHICH ARE TO BE GROUTED WITH WATERPROOF GROUT.

SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL. MAXIMUM RISER HEIGHT SHALL BE LIMITED TO

6. JOINTS SHALL BE SEALED AT BOTH THE TOP

AND BOTTOM LIPS OF THE JOINT.

STANDARD PRE-CAST MANHOLE NOT TO SCALE

STRUCTURE TABLE						
STRUCTURE NAME	STRUCTURE TYPE	STRUCTURE DETAILS	PIPES IN	PIPES OUT		
CLEAN OUT	SDR 35 CLEANOUT	SURFACE ELEV. = 1162.86 SUMP = 1158.0 INV IN = 1158.14 INV OUT = 1158.04	6" SDR 35 INV IN =1158.14	6" SDR 35 INV OUT =1158.04		
COMBO MH 2 EX	FIELD VERIFY	SURFACE ELEV. = 1155.10 SUMP = 144.8 INV IN = 1141.65	24" PS 115 INV IN =1141.65			
COMBO MH1 EX	FIELD VERIFY	SURFACE ELEV. = 1160.61 SUMP = 1144.4 INV OUT = 1144.36		24" PS 115 INV OUT =1144.36		
MH1	48" PRECAST MANHOLE	SURFACE ELEV. = 1156.51 SUMP = 1143.1 INV IN = 1143.19 INV OUT = 1143.09	24" PS 115 INV IN =1143.19	24" PS 115 INV OUT =1143.09		

PIPE TABLE						
NAME	SIZE	LENGTH	SLOPE	MATERIAL		
SAN EX1 TO SAN MH1	24"	142.25	0.82%	PS 115		
SAN MH2 TO EXMH2	24"	176.98'	0.81%	PS 115		
CO TO CONNECTION	6"	94.09'	13.86%	SDR 35		
BLGD TO CO	6"	17.68'	5.43%	SDR 35		

Fukui Architects Pc

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ENGINEERS & SURVEYORS 4314 OLD WILLIAM PENN HWY SUITE 101 MONROEVILLE, PA 15146

OFFICE: 724.325.1215

NOT FOR **CONSTRUCTION -ISSUED FOR BID**

general notes

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Project Location:

Northview Heights Midrise 250 Penfort Street Pittsburgh, PA 15214

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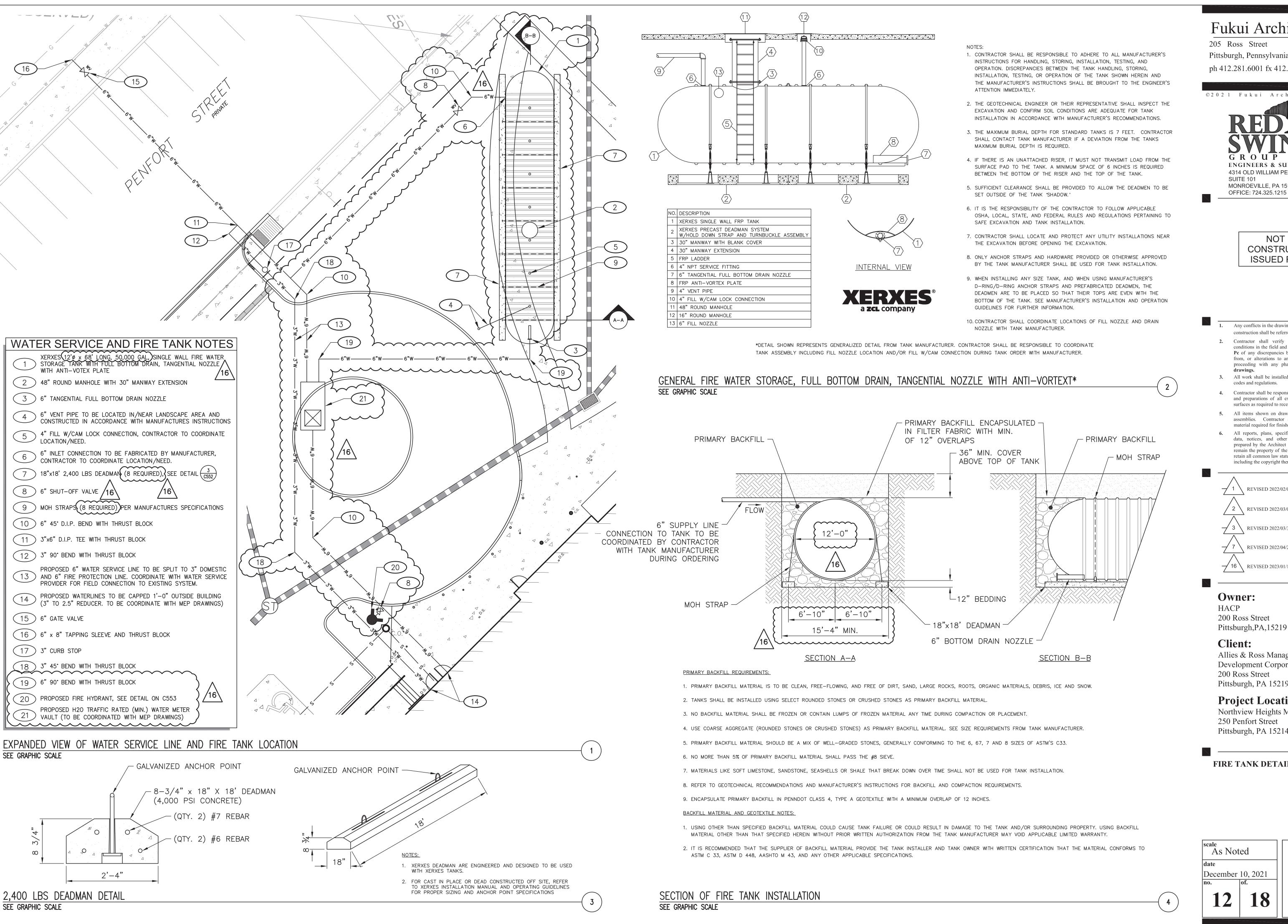
UTILITY DETAILS

As Noted December 10, 2021 18

Sheet No.

C550 Project #2040

SANITARY STRUCTURE AND PIPE SCHEDULE NOT TO SCALE



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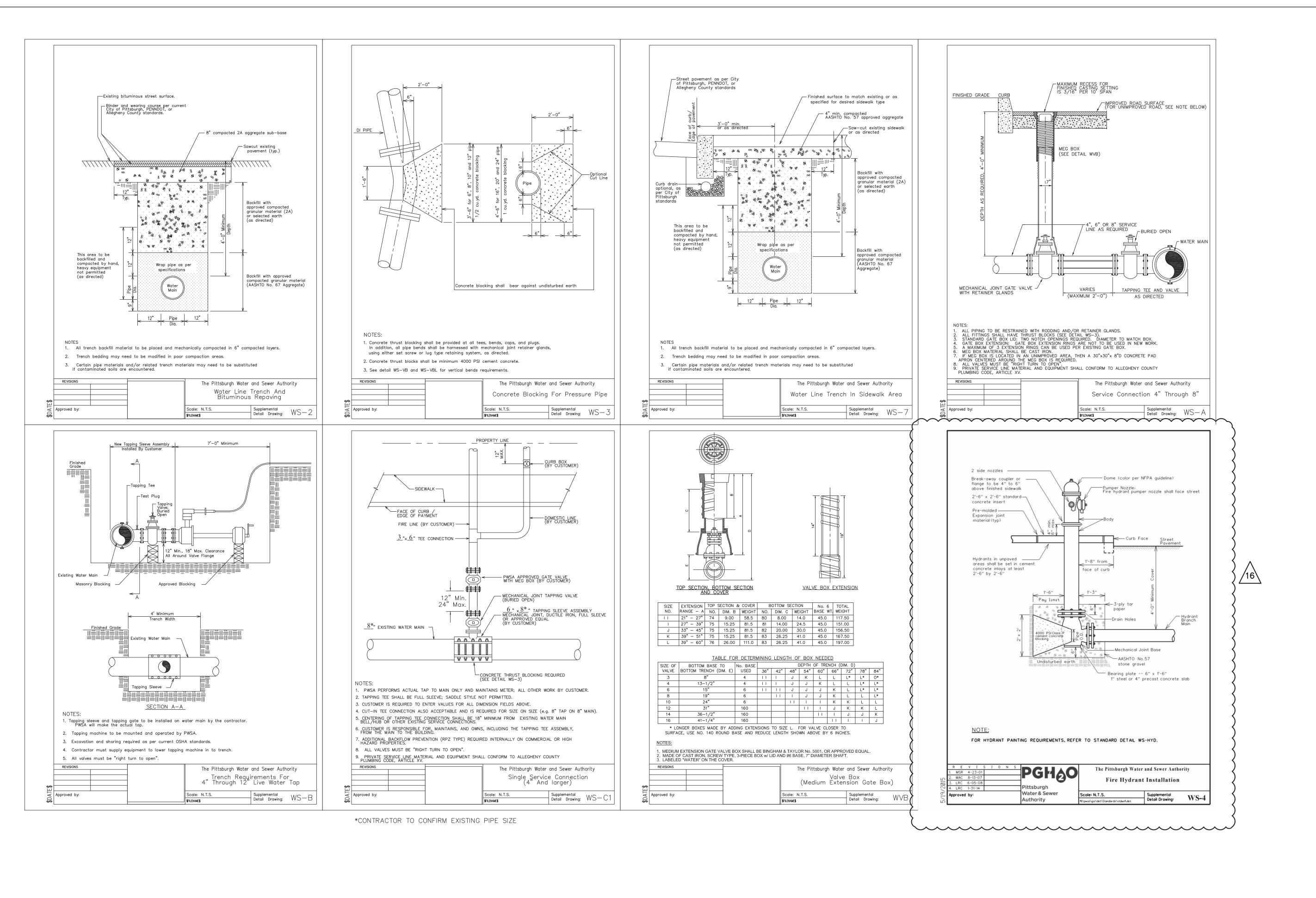
Northview Heights Midrise 250 Penfort Street Pittsburgh, PA 15214

drawing title

FIRE TANK DETAILS

As Noted December 10, 2021 Sheet No.

C552



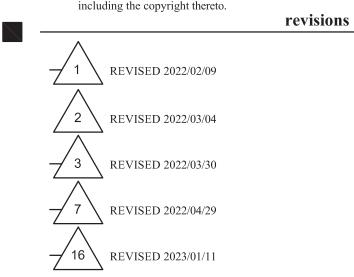
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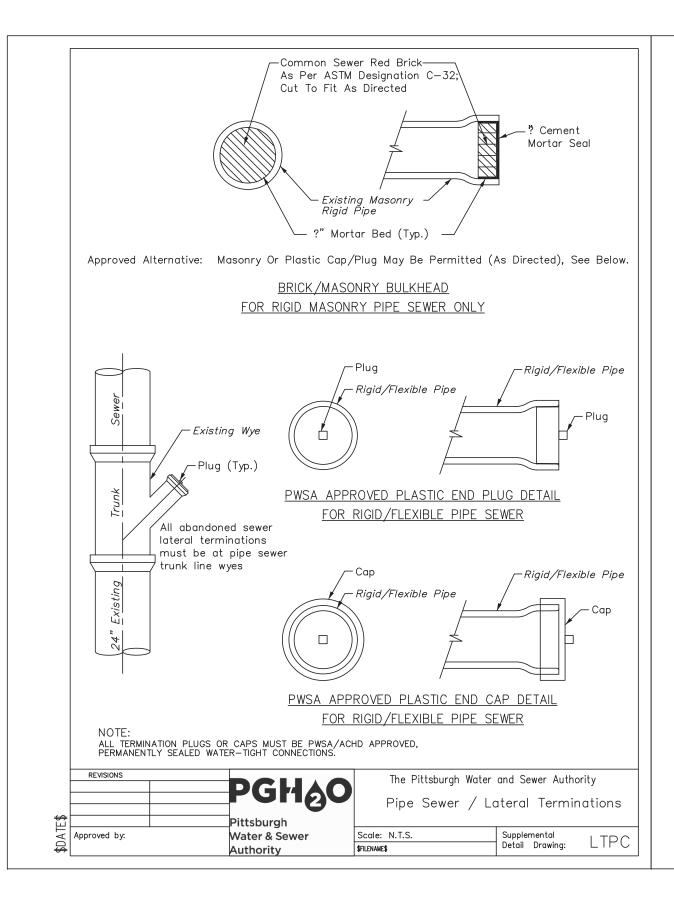
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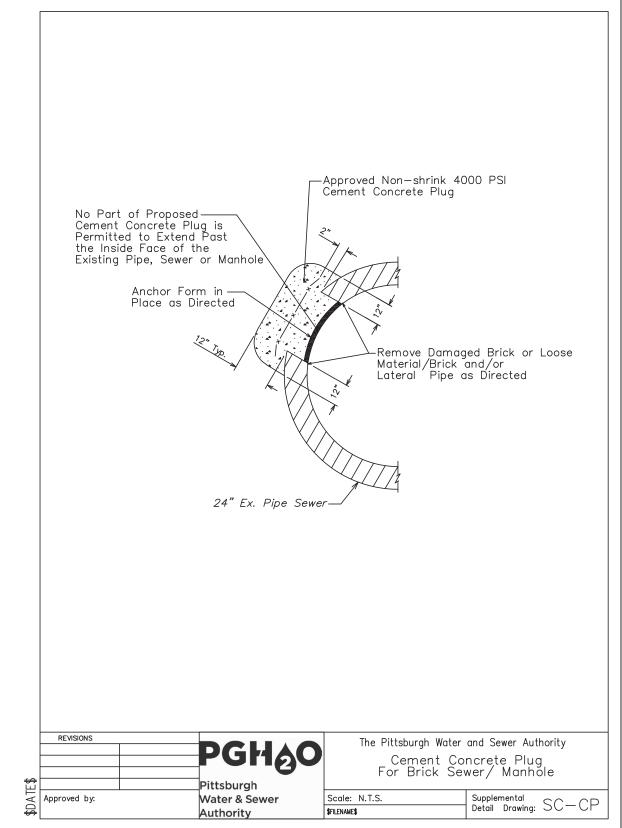
PWSA DETAILS 1 OF 2

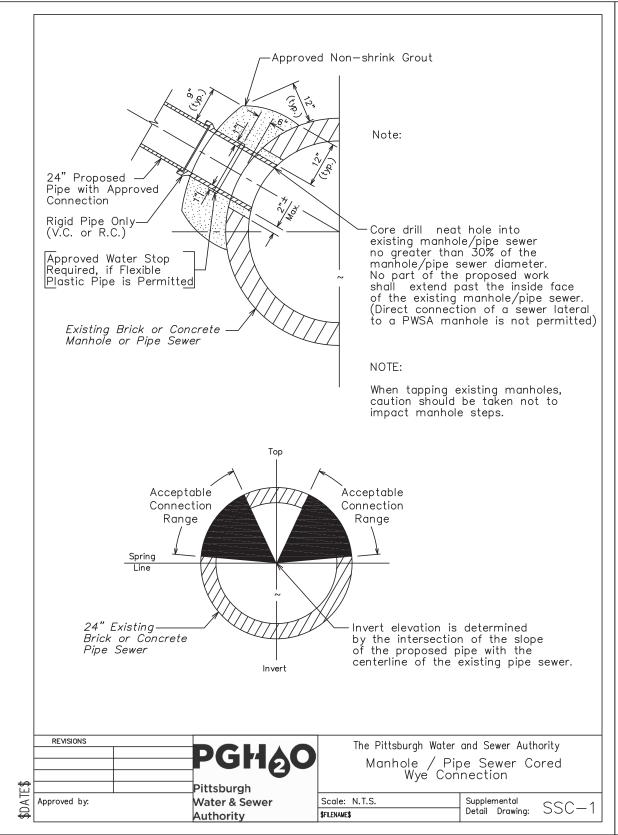
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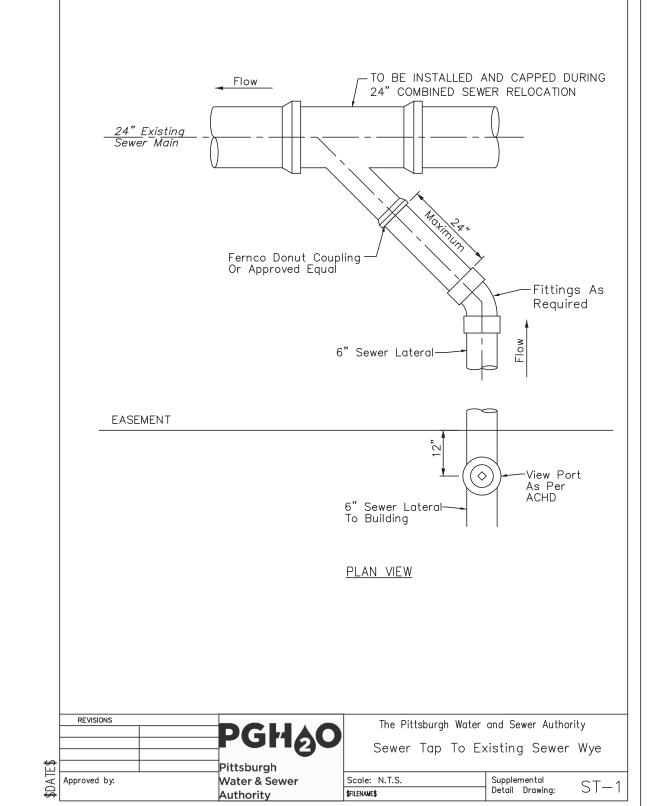
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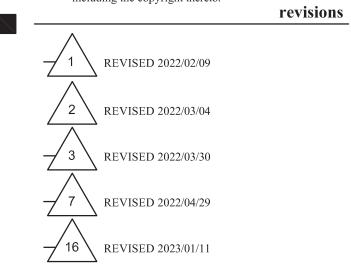
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Northview Heights Midrise 250 Penfort Street Pittsburgh, PA 15214

drawing title

project title

PWSA DETAILS 2 OF 2

As Noted December 10, 2021

C554 18 **14**

Project #2040

Sheet No.

GENERAL SEEDING SPECIFICATIONS

HE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION RECOMMENDS USING THE PENN STATE "EROSION CONTROL AND CONSERVATION PLANTINGS ON NONCROPLAND" MANUAL AS A REFERENCE FOR SELECTION OF SPECIES, SEED SPECIFICATIONS, MIXTURES, LIMING AND FERTILIZING, TIME OF SEEDING, AND SEEDING METHODS. SPECIFICATIONS FOR THESE ITEMS MAY ALSO BE OBTAINED FROM THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408, SECTION 804 OR BY CONTACTING THE APPLICABLE COUNTY CONSERVATION

VEGETATED AREAS WILL BE CONSIDERED PERMANENTLY STABILIZED WHEN A UNIFORM 70% ÆGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES IS ACHIEVED, OR THE ISTURBED AREA IS COVERED WITH AN ACCEPTABLE BEST MANAGEMENT PRACTICE ("BMP") WHICH PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION. UNTIL SUCH TIME AS THIS STANDARD IS ACHIEVED, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENT CONTROL BMPs THAT ARE USED TO TREAT PROJECT RUNOFF MAY IOT BE REMOVED.

TEMPORARY SEEDING SPECIFICATIONS

PRELIMINARY PREPARATION: ALL AREAS THAT WILL BE SEEDED MUST BE LOOSENED USING MECHANICAL MEANS. SOIL MUST BE LOOSENED TO A DEPTH OF AT LEAST TWO-INCHES.

<u>LIME AND FERTILIZER:</u> APPLY 1 TON OF AGRICULTURAL GRADE LIMESTONE PER ACRE AND ERTILIZER AS INDICATED BY THE SOIL TEST. IN THE ABSENCE OF A SOIL TEST, APPLY AGRICULTURAL GRADE LIMESTONE AT A RATE OF 1 TON PER ACRE, AND APPLY FERTILIZER A 500 POUNDS OF 10–10–10 FERTILIZER PER ACRE (E.G., 166.67 POUNDS NITROGEN (N), 166.67 POUNDS PHOSPHOROUS (P₂0₅), AND 166.67 POUNDS POTASSIUM (K₂0) PER ACRE. WORK LIME AND FERTILIZER INTO SOIL WHERE POSSIBLE. LIME AND FERTILIZER DATA WAS OBTAINED FROM THE PADEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) MANUAL, TABLE 11.2.

SEED: ALL SEED MUST BEAR A GUARANTEED STATEMENT OF ANALYSIS AND MUST BE PROPORTIONED BY WEIGHT WITH THE MINIMUM PURITY, READY GERMINATION, AND TOTAL GERMINATION OUTLINED BELOW. SEED DATA WAS OBTAINED FROM THE PADEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) MANUAL, TABLES 11.3 AND 11.4.

SPECIES	PURITY (%)	READY GERMINATION (%)	TOTAL GERMINATION (%)	PURE LIVE SEED SEEDING RATE (LBS/ACRE)
SPRING-SUMMER				
SPRING OATS, OR	98	85	85	64
ANNUAL RYEGRASS	95	85	85	10
SUMMER-FALL				
ANNUAL RYEGRASS, OR	95	85	85	10
WINTER RYE, OR	98	85	85	90
WINTER WHEAT	98	85	85	112

1- PURE LIVE SEED (PLS) IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. FOR EXAMPLE, TO SECURE THE ACTUAL PLANTING RATE FOR ANNUAL RYEGRASS, DIVIDE THE PLS SEEDING RATE OF 10 LBS/ACRE BY THE PLS AS SHOWN ON THE SEED TAG. THUS, IF THE PLS CONTENT OF A GIVEN SEEDLOT IS 60%, DIVIDE 10 PLS (LBS/ACRE) BY 0.60 TO OBTAIN 16.7 LBS OF SEED REQUIRED TO PLANT ONE ACRE. ALL MIXTURES IN THIS TABLE ARE SHOWN IN TERMS OF

MULCH: ALL SEEDED AREAS MUST BE IMMEDIATELY MULCHED TO PROMOTE ADEQUATE VEGETATIVE COVER. USE CLEAN OAT OR WHEAT STRAW, FREE OF WEEDS, NOT CHOPPED OF FINELY BROKEN. THE STRAW MUST BE FREE FROM MATURE SEED-BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY THE PENNSYLVANIA SEED ACT O

APPLY MULCH AT A RATE OF 3 TONS PER ACRE (I.E., 140 POUNDS PER 1,000 SQUARE FEET OR 1,240 POUNDS PER 1,000 SQUARE YARDS). THE MULCH MUST BE ANCHORED IMMEDIATELY AFTER APPLICATION. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO ANCHOR THE MULCH INTO THE SOIL. THIS METHOD IS LIMITED TO SLOPES SHALLOWER THAN OR EQUAL TO 3:1 AND THE EQUIPMENT MUST BE OPERATED ON THE CONTOUR.

STEEP SLOPE SEEDING SPECIFICATIONS

STEEP SLOPE SEEDING MIXTURE (FOR USE ON GRADES AT 3:1 OR GREATER SLOPES): ALL SLOPES GREATER THAN 3:1 SHALL BE COVERED WITH AN EROSION CONTROL ANKET IN ADDITION TO RECEIVING A GRASS SEEDING MIXTURE.

WHEN CONDITIONS PERMIT, THE FOLLOWING SEEDING MIXTURE CAN BE UTILIZED ON STEEP SLOPES. SEED DATA WAS OBTAINED FROM THE PADEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) MANUAL, TABLES 11.4 AND 11.5.

SPECIES	PURITY (%)	READY GERMINATION (%)	TOTAL GERMINATION (%)	PURE LIVE SEED SEEDING RATE ¹ (LBS/ACRE)
ANNUAL RYEGRASS	95	85	85	10
BIRDSFOOT TREFOIL	98	60	80	6
RIG BLUESTEM ²	95	80	80	30

1- PURE LIVE SEED (PLS) IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. FOR EXAMPLE, TO SECURE THE ACTUAL PLANTING RATE FOR ANNUAL RYEGRASS, DIVIDE THE PLS SEEDING RATE OF 10 LBS/ACRE BY THE PLS AS SHOWN ON THE SEED TAG. THUS, IF THE PLS CONTENT OF A GIVEN SEEDLOT IS 60%, DIVIDE 10 PLS (LBS/ACRE) BY 0.60 TO OBTAIN 16.7 LBS OF SEED REQUIRED TO PLANT ONE ACRE. ALL MIXTURES IN THIS

ONSITE SEDIMENT CONTROL PLAN MAINTENANCE SCHEDULE

BARE SOIL PATCHES

RUNOFF ESCAPING

AROUND BARRIER

SEDIMENT LEVEL

FLOW CAPACITY

MISSING MATERIAL

LOST AND/OR DISLODGED

WASHOUT IS DAMAGED OR

ACCUMULATED MATERIALS

EXCEED 50% OF CAPACITY

DAMAGED OR DISPLACED

STONES

ROADWAYS

LEAKING

BUILDUP

SEDIMENT AT TOE OF SLOPE CHECK FOR TOE OF SLOPE DIVERSION AND INSTALL IF NEEDED.

RESEED, FERTILIZE AND MULCH BARE AREAS.

SEDIMENT BUILD—UP REDUCING|ONCE FULL OF SEDIMENT (I.E. SEDIMENT LEVEL TO TOP OF MAT OR VISIBLE

LOODING AROUND OR BELOW REMOVE ACCUMULATED SEDIMENT; OR CONVERT SEDIMENT BARRIER TO AN

SEDIMENT DEPOSITED IN PAVED AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON

OUTLET SUCH AS A SEDIMENT TRAP.

RILLS AND GULLIES FORMING FILL RILLS AND REGRADE GULLIED SLOPES.

REPLACE BAG.

FUTURE USE.

4 CALENDAR DAYS

BAG IS CLOGGED OR FLOW IS REPLACE BAG.

TABLE ARE SHOWN IN TERMS OF PLS. LBS/ACRE. 2- ALTERNATIVES: BIG BLUESTEM (ANDROPOGON GERARDII), LITTLE BLUESTEM

(SCHIZACHYRIUM SCOPARIUM), INDIANGRASS (SORGASTRUM NUTANS) AND

INSPECT

ONCE A WEEK AND AFTER

EVERY RUNOFF EVENT

EVERY RUNOFF EVENT

ONCE A WEEK AND AFTER

PUMPED WATER FILTER | DAILY AND AFTER EACH USE | BAG IS HALF FULL

EVERY RUNOFF EVENT

OMPOST FILTER SOCK ONCE A WEEK AND AFTER

ROCK CONSTRUCTION DAILY AND AFTER EACH

RUNOFF EVENT

RUNOFF EVENT

FSTARLISHED

DAILY AND AFTER EACH

WEEKLY AND AFTER EACH

VEGETATIVE COVERAGE IS

RUNOFF EVENT UNTIL 70% | BLANKETS

SWITCHGRASS (PANICUM VIRGATUM).

CONTROL MEASURE

VLET PROTECTION

NTRANCE

ONCRETE

WASHOUT AREA

ROSION CONTROL

'EGETATION

PERMANENT SEEDING SPECIFICATIONS

PRELIMINARY PREPARATION: GRADE AS NECESSARY TO BRING SUBGRADE TO A TRUE, SMOOTH SLOPE PARALLEL TO AND SIX INCHES BELOW FINISH GRADE (I.E., 8 INCHES FOR BASIN EMBANKMENTS WHEN APPLICABLE). PLACE TOPSOIL OVER SPECIFIED AREAS. TOPSOIL SHOULD BE AT A GREATER THICKNESS (I.E., GENERALLY 6 TO 8 INCHES) THAN THE FINISHED GRADE TO ALLOW FOR SETTLEMENT AND LIGHT ROLLING. THE FINAL COVER MUST CONFORM TO THE PROPOSED LINES, GRADES AND ELEVATIONS.

LIME AND FERTILIZER: APPLY AGRICULTURAL-GRADE LIMESTONE AND FERTILIZER AS PER THE RECOMMENDATIONS INDICATED BY THE SOIL TEST. IN THE ABSENCE OF A SOIL TEST, APPLY AGRICULTURAL GRADE LIMESTONE AT A RATE OF 6 TONS PER ACRE, AND APPLY 1,000 POUNDS OF 10-20-20 FERTILIZER (E.G., 250 POUNDS NITROGEN (N), 500 POUNDS PHOSPHORUS ($P_2 O_5$), AND 500 POUNDS POTASSIUM ($R_2 O_1$) PER ACRE.) WORK LIME AND FERTILIZER INTÒ SOIL WHERE POSSIBLE. LIME AND FÈRTILIZER DATA WAS OBTAINED FROM THE PADEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) MANUAL,

THE FERTILIZER AND LIMESTONE MUST BE THOROUGHLY INCORPORATED INTO THE SOIL BY MECHANICAL MEANS (E.G., ROTOTILLING) TO A MINIMUM DEPTH OF 4 INCHES.

THE ENTIRE SURFACE MUST THEN BE REGRADED AND ROLLED. ALL AREAS THAT WILL BE SEEDED MUST BE LOOSENED USING MECHANICAL MEANS. SOIL MUST BE LOOSENED TO A DEPTH OF AT LEAST TWO INCHES.

SEED: SEEDING MUST BE CONDUCTED AS TWO SEPARATE OPERATIONS. THE FIRST SEEDING OPERATION MUST BE COMPLETED PRIOR TO STARTING THE SECOND SEEDING OPERATION. THE SECOND SEEDING MUST BE CONDUCTED IMMEDIATELY AFTER THE FIRST SEEDING AND AT RIGHT ANGLES TO THE FIRST SEEDING. THE SEEDS MUST BE LIGHTLY RAKED INTO THE SOIL.

ALL SEED MUST BEAR A GUARANTEED STATEMENT OF ANALYSIS AND MUST BE 100% PROPORTION BY WEIGHT WITH THE MINIMUM PURITY. READY GERMINATION. AND TOTAL GERMINATION OUTLINED BELOW. SEED DATA WAS OBTAINED FROM THE PADEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) MANUAL, TABLES 11.3 AND 11.4.

SPECIES	PURITY (%)	READY GERMINATION (%)	TOTAL GERMINATION (%)	PURE LIVE SEED SEED (LBS/ACRE)
SPRING-SUMMER				
REDTOP	92	80	80	3
BIG BLUESTEM ²	95	80	80	60
ANNUAL RYEGRASS	95	85	85	10
SUMMER-FALL				
REDTOP	92	80	80	3
BIG BLUESTEM 2	95	80	80	60
WINTER RYE	98	85	85	10

- PURE LIVE SEED (PLS) IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. FOR EXAMPLE, TO SECURE THE ACTUAL PLANTING RATE FOR REDTOP, DIVIDE THE PLS SEEDING RATE OF 3 LBS/ACRE BY THE PL SHOWN ON THE SEED TAG. THUS, IF THE PLS CONTENT OF A GIVEN SEEDLOT IS 60%, DIVIDE 3 PLS BY 0.60 TO OBTAIN 5.0 LBS OF SEED REQUIRED TO PLANT ONE ACRE. ALL MIXTURES IN THIS TABLE ARE SHOWN IN TERMS OF PLS, LBS/ACRE.

2- ALTERNATIVES: BIG BLUESTEM (ANDROPOGON GERARDII), LITTLE BLUESTEM

FINELY BROKEN. THE STRAW MUST BE FREE FROM MATURE SEED-BEARING STALKS OR

(SCHIZACHYRIUM SCOPARIUM), INDIANGRASS (SORGASTRUM NUTANS) AND SWITCHGRASS (PANICUM VIRGATUM). MULCH: ALL SEEDED AREAS MUST BE IMMEDIATELY MULCHED TO PROMOTE ADEQUATE ÆGETATIVE COVER. USE CLEAN OAT OR WHEAT STRAW, FREE OF WEEDS, NOT CHOPPED OR

APPLY MULCH AT A RATE OF 3 TONS PER ACRE (I.E., 140 POUNDS PER 1,000 SQUARE FEET OR 1,240 POUNDS PER 1,000 SQUARE YARDS). THE MULCH MUST BE ANCHORED IMMEDIATELY AFTER APPLICATION. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO ANCHOR THE MULCH INTO THE SOIL. THIS METHOD IS LIMITED TO SLOPES SHALLOWER THAN OR

ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY THE PENNSYLVANIA SEED ACT OF

FURTHER NOTES

EROSION AND SEDIMENTATION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE WITHIN THE CONTRIBUTORY DRAINAGE AREAS OF THOSE CONTROLS.

EQUAL TO 3:1 AND THE EQUIPMENT MUST BE OPERATED ON THE CONTOUR.

AFTER FINAL SITE STABILIZATION IS ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE IMMEDIATELY STABILIZED. FINAL STABILIZATION IS DEFINED AS THE ACHIEVEMENT OF A MINIMUM UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED ON ALL CONTRIBUTORY DRAINAGE AREAS.

SEDIMENT MUST BE REMOVED FROM INLET PROTECTION AFTER EACH RUNOFF EVENT.

POSSIBLE REMEDIES (TO BE PERFORMED

SECURELY ANCHOR WITH PROPER STAPLES. EXTEND BARRIER AS NEEDED.

WITHIN TOP OF MAT), INLET FILTER SHALL BE CLEANED PER DETAIL

EXCAVATED SEDIMENT TRAP; OR REROUTE RUNOFF TO A MORE SUITABLE

REPLACE MISSING STONES SO AS TO MAINTAIN SPECIFIED DIMENSIONS.

PAVED ROADWAYS SHALL BE RETURNED TO THE CONSTRUCTION SITE.

REMOVE ACCUMULATED MATERIALS AND REPLACE PLASTIC LINERS.

DEACTIVATE THE WASHOUT AND REPAIR OR REPLACE IT IMMEDIATELY FOR

DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN

REPAIR OR REPLACE PROTECTION MATERIALS AS NEEDED.

REMOVE SEDIMENT WHEN LEVEL REACHES HALF (1/2) OR MORE THE HEIGHT

WITHIN 24 HOURS OR AS SOON AS SAFELY PRACTICAL.)

ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED FOR MORE THAN 4 DAYS MUST BE TEMPORARILY STABILIZED. DISTURBED AREAS THAT ARE EITHER AT FINISHED GRADE OR WILL NOT BE DISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS.

CONSTRUCTION SEQUENCE

THE OVERALL SITE-WORK GENERALLY CONSISTS OF EARTHMOVING ACTIVITIES OVER APPROXIMATELY 2.95 +/- ACRES OF DISTURBED AREA TO PERFORM THE CONSTRUCTION OF THE MID-RISE APARTMENT COMPLEX, WHICH INCLUDES STORMWATER MANAGEMENT FACILITIES, NEW UTILITY INSTALLATION, LANDSCAPING, AND ASSOCIATED GRADING. THE CONSTRUCTION IS PROPOSED TO PROCEED IN THE FOLLOWING MANNER:

- AT LEAST SEVEN (7) DAYS BEFORE STARTING EARTH DISTURBANCE ACTIVITIES. THE OPERATOR SHALL INVITE CONTRACTORS INVOLVED IN PROPOSED EARTH DISTURBANCE ACTIVITIES. THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, AND A REPRESENTATIVE OF THE LOCAL
- CONSERVATION DISTRICT TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING. . AT LEAST 3 DAYS BEFORE STARTING EARTH DISTURBANCE ACTIVITIES, CONTRACTORS INVOLVED IN PROPOSED EARTH DISTURBANCE SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM, INC. AT 1-800-242-1776 FOR BURIED UTILITY LOCATIONS.
- 3. STAKE OUT THE LIMIT OF DISTURBANCE FOR THE ACTIVE PORTION OF THE PROJECT. INSTALL TEMPORARY ROCK CONSTRUCTION ENTRANCE AS SHOWN ON THE PLAN.
- INSTALL ALL COMPOST FILTER SOCK PROTECTION AS SHOWN ON THE PLAN. INSTALL INLET PROTECTION AROUND EXISTING SITE INLETS.
- TREES THAT ARE TO BE PROTECTED DURING CONSTRUCTION, AS SHOWN ON THE PLANS, SHALL BE TEMPORARILY PROTECTED WITH STANDARD SNOW FENCE OR ORANGE CONSTRUCTION FENCE IN ACCORDANCE WITH DETAILS SHOWN ON LANDSCAPE PLANS. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION
- . SET UP DESIGNATED TOPSOIL STOCKPILE AREA TO STORE STRIPPED TOPSOIL THROUGH SITE GRADING TO BE UTILIZED FOR RE-VEGETATION AND STABILIZATION.
-). PROCEED WITH SITE DEMOLITION AND HAUL—OFF OPERATIONS. 10. AS THE CONSTRUCTION PAD AREA IS CLEARED, BEGIN EARTHWORK ACTIVITIES TO BRING SITE TO ROUGH GRADE ELEVATIONS PER GEOTECHNICAL RECOMMENDATIONS. FILL SLOPE STABILIZATION SHOULD OCCUR IN 15 TO 25 FOOT VERTICAL INCREMENTS. NO MORE THAN 15,000 SQ FT OF DISTURBED AREA WHICH IS TO BE STABILIZED BY VEGETATION SHOULD REACH FINAL GRADE BEFORE INITIATING SEEDING AND MULCHING. DISTURBED SLOPES GREATER THAN 3:1 MUST BE COVERED WITH EROSION CONTROL BLANKETS AS SPECIFIED.
- 1. INSTALL CONCRETE WASHOUT FACILITY.

FOUNDATION AREAS MUST BE REMOVED VIA A PUMP AND FILTER BAG.

12. INSTALL PUMPED WATER FILTER BAG WHERE NECESSARY. 13. BEGIN AND COMPLETE INSTALLATION OF WALL(S) AS NECESSARY TO BRING SITE TO/NEAR FINAL GRADE ELEVATIONS.

14. BUILDING CONSTRUCTION MAY COMMENCE AFTER AREAS REACH FINAL GRADE ELEVATIONS AND THE CONCRETE WASHOUT FACILITY IS INSTALLED. IMPORTANT: OPEN FOUNDATION AREAS MUST BE PROTECTED FROM ACCUMULATING STORMWATER RUNOFF. STORMWATER THAT ACCUMULATES IN OPEN

15. INSTALL SANITARY SEWER LATERALS IF APPLICABLE. LIMIT DAILY TRENCH EXCAVATION AND SANITARY LINE INSTALLATION TO THE LENGTH OF PIPE PLACEMENT, BEDDING, AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY (WEATHER PERMITTING).

6. COMMENCE INSTALLING SITE STORM PIPES AND STRUCTURES ENSURING NO WATER ENTERS THE STRUCTURES UNTIL AREAS TRIBUTARY TO THE STRUCTURES ARE STABILIZED. STORM PIPES AND STRUCTURES SHALL BE INSTALLED STARTING FROM THE DOWN GRADIENT END AND WORKING IN AN UP-GRADIENT MANNER. INSTALL FILTER INLET PROTECTION IN ALL NEW INLETS AS THEY ARE INSTALLED. LIMIT DAILY TRENCH EXCAVATION AND STORM LINE INSTALLATION TO THE LENGTH OF PIPE PLACEMENT, BEDDING, AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY (WEATHER PERMITTING). TRENCH SPOILS SHALL BE USED UP-GRADIENT OF UTILITY TRENCH AS A TEMPORARY BERM TO DIVERT UPHILL RUNOFF FROM

CRITICAL STAGE: CONSTRUCTION OF THE DRY EXTENDED DETENTION BASIN BMP.

IMPORTANT: STORMWATER RUNOFF IS NOT TO BE DIRECTED TO UNPROTECTED STORMWATER CONVEYANCE SYSTEMS UNTIL THE SITE IS AT FINAL GRADE AND STABILIZED.

7. CONSTRUCT THE DETENTION BASIN EMBANKMENT, INCOMING HEADWALL/RIPRAP APRON, AND INSTALL THE OUTLET STRUCTURE IN ACCORDANCE WITH THE PROJECT PLAN AND DETAILS. APPLY PERMANENT STABILIZATION MEASURES TO ALL DISTURBED SURFACES DURING CONSTRUCTION OF THE DETENTION BASIN AS SOON AS PRACTICABLE IN ACCORDANCE WITH PROJECT PLANS AND DETAILS.

IMPORTANT: THE INSTALLATION OF THE DETENTION BASIN OUTLET STRUCTURE/PIPE IS A CRITICAL STAGE OF THE STORMWATER MANAGEMENT PLAN. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER ONE WEEK PRIOR TO EXPECTED OUTLET CONSTRUCTION SO THAT THE INSTALLATION CAN

CRITICAL STAGE: CONSTRUCTION OF THE GRAVEL SUMP AND UNDERGROUND STORMWATER CHAMBER SYSTEM BMPS

18. CONSTRUCTION OF INFILTRATION BEDS FOR THE TWO (2) GRAVEL SUMPS CAN COMMENCE.

A. EXCAVATE TO THE BOTTOM SPECIFIED FOR EACH SYSTEM IN THE PROJECT PLANS AND DETAILS TAKING CARE TO MINIMIZE COMPACTION IN THE BOTTOM OF THE EXCAVATIONS INSOFAR AS POSSIBLE. REMOVE UNSUITABLE MATERIALS INCLUDING BUT NOT LIMITED TO OLD FOUNDATIONS, LARGE COBBLES/BOULDERS, CONSTRUCTION DEBRIS LEFT FROM DEMOLITION OF FORMER STRUCTURES, ETC. SURFACES WITHIN THE INFILTRATION BED THAT ARE COMPACTED DURING CONSTRUCTION SHALL BE LOOSENED/SCARIFIED TO PROMOTE INFILTRATION PRIOR TO CONTINUING WITH GRAVEL/CHAMBER INSTALLATION.

B. PLACE SPECIFIED GEOTEXTILE IN BOTTOM OF EXCAVATION IN A MANNER THAT WILL ALLOW ENTIRE SYSTEM TO BE ENCAPSULATED ONCE CONSTRUCTED IN ACCORDANCE WITH PROJECT DETAILS. INSTALL PERFORATED UNDERDRAIN PIPE WRAPPED IN FABRIC WITH CLOSED VALVE IN OUTLET STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE.

C. BACKFILL EXCAVATIONS WITH SPECIFIED DRAINAGE AGGREGATE TO THE ELEVATION OF THE INVERT OF THE UNDERGROUND CHAMBER SYSTEM AND/OR PERFORATED OUTLET PIPES. INSTALL CHAMBERS AND PERFORATED OUTLET PIPES IN ACCORDANCE WITH PROJECT PLANS AND DFTAILS AND MANUFACTURER'S INSTRUCTIONS. THE ENGINEER OR THEIR REPRESENTATIVE SHALL BE ALLOWED TO INSPECT THE OUTLET STRUCTURES AND OUTLET PIPES DURING THIS CRITICAL STAGE.

D. INSTALL PERFORATED INLET PIPES AND STRUCTURES, AND INSPECTION PORTS/CLEANOUTS AS NECESSARY AS CONTINUING TO BACKFILI THE EXCAVATIONS. FULLY ENCAPSULATE EACH GRAVEL SUMP SYSTEM IN FABRIC PRIOR TO CONTINUING BACKFILLING AND/OR CONSTRUCTING ABOVE SYSTEMS.

IMPORTANT: THE INSTALLATION OF THE UNDERGROUND GRAVEL SUMP OUTLET STRUCTURES/PIPES ARE CRITICAL STAGES OF THE STORMWATER MANAGEMENT PLAN. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER ONE WEEK PRIOR TO EXPECTED OUTLET CONSTRUCTION SO THAT THE INSTALLATION CAN BE OBSERVED.

19. INSTALL BUILDING UTILITY SERVICE LINES AND CONDUITS. LIMIT DAILY TRENCH EXCAVATION AND UTILITY LINE INSTALLATION TO THE LENGTH OF PIPE PLACEMENT, BEDDING, AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY (WEATHER PERMITTING). EXISTING PAVEMENT AND/OR SIDEWALK IN PATH OF UTILITY TRENCHING SHALL BE SAW-CUT AND/OR CONCRETE PANELS REMOVED TO NEAREST JOINT INSOFAR AS POSSIBLE. O. BACKFILL AND RESTORE UTILITY TRENCHES WITHIN EXISTING ROADWAYS AS SOON AS PRACTICABLE.

20. FINE GRADE AREAS IN PREPARATION FOR PERMANENT SURFACING. 21. POUR AND APPROPRIATELY TOOL CONCRETE CURBING AND PADS.

22. PLACE NEW CONCRETE/PAVEMENT SURFACES. INSTALL SITE FEATURES SUCH AS BIKE RACKS, GAZEBO, SIDEWALKS, ETC.. REMAINING AREA SHALL RECEIVE PERMANENT SEEDING/PLANTING IN ACCORDANCE WITH THE LANDSCAPE PLAN, AND SEEDED AREAS ARE TO BE MULCHED PER PROJECT

THE SITE WILL BE CONSIDERED STABILIZED WHEN A MINIMUM UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES IS ACHIEVED. WHEN SITE WORK IS COMPLETE AND THE SITE IS STABILIZED, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL BMPS, INCLUDING, BUT NOT LIMITED TO, COMPOST FILTER SOCKS. INLET PROTECTION. THE ROCK CONSTRUCTION ENTRANCE, AND THE CONCRETE WASHOUT FACILITY. DISTURBANCE CAUSED AS A RESULT OF EROSION AND SEDIMENT CONTROL BMP REMOVAL SHALL BE IMMEDIATELY VEGETATED AND STABILIZED.

UTILITY TRENCH CONSTRUCTION SEQUENCE: EXPOSED TRENCH EXCAVATIONS HAVE HIGH POTENTIAL FOR ACCELERATED EROSION AND SEDIMENT POLLUTION. SINCE THESE EXCAVATIONS ARE TYPICALLY LOCATED AT LOWER ELEVATIONS ALONG OR ACROSS EARTH DISTURBANCE SITES, OPEN TRENCHES SERVE TO CONCENTRATE SEDIMENT-LADEN RUNOFF AND CONVEY IT TO SITE BOUNDARIES OR WATERWAYS. AN EFFECTIVE MEASURE TO REDUCE EROSION AND SEDIMENTATION DURING UTILITY CONSTRUCTION IS TO LIMIT THE SPECIFIC SCHEDULE AND SCOPE OF WORK ACTIVITIES AS FOLLOWS DURING CONSTRUCTION:

LIMIT ADVANCE CLEARING AND GRUBBING OPERATIONS TO A DISTANCE OF TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY (WEATHER PERMITTING).

WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCTION AND BACKFILLING WILL BE SELF-CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING, SITE RESTORATION AND STABILIZATION OPERATIONS.

LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY (WEATHER PERMITTING). TRENCH PLÙGS WILL BE SPACED AND CONSTRUCTED IN ACCORDANCE WITH THE TRENCH PLUG DETAIL ON THE PLAN SHEETS.

WATER THAT ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING WATER TO A CONTROL FACILITY OR FILTER BAG FOR THE REMOVAL OF SEDIMENT. WHEN THE FILTER BAG IS ½-FULL IT SHOULD BE REPLACED. ACCUMULATED SEDIMENT SHALL BE MIXED WITH SOIL AND PROPERLY DISPOSED OF ON THE SITE IF POSSIBLE OR DISPOSED OF AT AN OFFSITE AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF EXCESS MATERIAL OFF—SITE AT A DEP APPROVED FACILITY. OFFSITE DUMPING FACILITIES SHALL HAVE AN APPROVED EROSION

& SEDIMENT CONTROL PLAN. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO APPROXIMATE FINAL CONTOUR, AND THE APPROPRIATE TEMPORARY EROSION CONTROL MEASURE OR FACILITY WILL BE INSTALLED. SEEDING AND MULCHING OF DISTURBED AREAS WILL BE PERFORMED AT THE END OF EACH WORK WEEK.

IN CERTAIN SITUATIONS, TRENCHES CANNOT BE BACKFILLED UNTIL THE PIPE IS HYDROSTATICALLY TESTED, OR ANCHORS AND OTHER PERMANENT FEATURES ARE INSTALLED. IN THESE SITUATIONS, THE REQUIREMENTS LISTED ABOVE WILL REMAIN IN EFFECT WITH THE FOLLOWING EXCEPTIONS: DAILY BACKFILLING OF THE TRENCH MAY BE DELAYED FOR SIX DAYS. PRESSURE TESTING AND THE COMPLETE BACKFILLING OF THE OPEN TRENCH MUST BE COMPLETED BY THE SEVENTH WORKING DAY.

2. IF DAILY BACKFILLING IS DELAYED, THE DISTURBED AREA WILL BE GRADED TO APPROXIMATE FINAL CONTOUR, APPROPRIATE TEMPORARY EROSION CONTROLS WILL BE INSTALLED, AND THE AREAS SEEDED AND MULCHED WITHIN THE NEXT TWO CALENDAR DAYS.

MAINTENANCE PROGRAM

MAINTENANCE OF TEMPORARY CONTROLS: MAINTAIN TEMPORARY CONTROL MEASURES THROUGHOUT THE PROJECT PERIOD AS OUTLINED IN THE "MAINTENANCE SCHEDULE" SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLANS AND NARRATIVE.

IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE TO PERFORM INSPECTIONS OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES TO ENSURE THAT THEY ARE WORKING PROPERLY. THESE INSPECTIONS MUST BE CONDUCTED WEEKLY, AND DURING OR IMMEDIATELY AFTER EVERY RUNOFF EVENT. THE INSPECTION WILL INCLUDE, BUT NOT BE LIMITED TO:

1) INSPECT ALL CONTROLS AND REPAIR OR REPLACE AS NEEDED.

2) INSPECT ALL SLOPES FOR SIGNS OF EROSION AND/OR SEDIMENTATION, AND REPAIR AS NEEDED.

AN ADEQUATE SUPPLY OF ADDITIONAL EROSION/SEDIMENTATION CONTROL MATERIALS (E.G., STRAW BALES, EROSION NETTING, PLASTIC COVERING, WIRE MESH, SAND AND BURLAP SANDBAGS, ROCKS AND GRAVEL) MUST BE STOCKPILED ON-SITE. THESE SUPPLIES MUST BE USED FOR EMERGENCY REPAIRS TO/OR REPAIRS OF EXISTING SOIL EROSION AND SEDIMENTATION CONTROLS.

MAINTENANCE OF PERMANENT CONTROLS:

THE OWNER/DEVELOPER WILL MAINTAIN PERMANENT CONTROL FACILITIES.

CLEANING FREQUENCY AND ULTIMATE DISPOSAL OF WASTE:

LEANING FREQUENCIES ARE SPECIFIED WITHIN THE MAINTENANCE SCHEDULE. SILT AND SEDIMENT REMOVED FROM ALL CONTROL MEASURES SHOULD BE MIXED WITH SOIL DURING EARTHWORK AND PROPERLY DISPOSED OF ON-SITE.

EROSION AND SEDIMENTATION CONTROL NOTES

EROSION AND SEDIMENTATION CONTROL NOTES:

1) A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLANS, NOTES, AND DETAILS DRAWINGS (STAMPED/SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.

2) ALL EARTH DISTURBANCE ACTIVITIES SHALL GENERALLY PROCEED IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE PROVIDED. BEFORE IMPLEMENTING ANY REVISIONS TO THE APPROVED ESCP OR REVISIONS TO OTHER PLANS THAT MAY AFFECT OR IMPACT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE LOCAL CONSERVATION DISTRICT

3) IN ADDITION TO THE PERMIT APPLICANT, INDIVIDUALS OR PARTIES WANTING TO CONDUCT INTRUSIVE EARTH DISTURBANCE ACTIVITIES ARE REQUIRED TO BE ADDED TO THE NPDES PERMIT AS A CO-PERMITTEE (IF NPDES APPLICABLE).

4) AT LEAST THREE (3) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INC. AT 1-800-242-1776 FOR BURIED UTILITIES LOCATION.

5) AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES. THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, AND A REPRESENTATIVE OF THE LOCAL CONSERVATION DISTRICT TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING.

6)IMPORTANT: IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BMPS TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP)

7)THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL 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.

8) ALL 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. ANY MATERIAL IDENTIFIED AS HAZARDOUS MUST BE DISPOSED IN ACCORDANCE WITH ALL 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.

9) 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 ALL RECEIVING SPOIL AND BORROW AREAS WHEN THEY HAVE BEEN IDENTIFIED.

10) THE ROCK CONSTRUCTION ENTRANCE WILL BE THE ONLY ENTRANCE USED BY CONSTRUCTION VEHICLES. NO CONSTRUCTION VEHICLES SHALL BE PERMITTED TO ENTER AREAS OUTSIDE OF THE LIMIT OF DISTURBANCE BOUNDARIES AS SHOWN ON THE E&S PLAN DRAWING.

11) THE CONTRACTOR SHALL TAKE ALL APPROPRIATE ACTIONS NECESSARY TO PREVENT TRUCKS FROM DEPOSITING SEDIMENT ON THE PUBLIC STREETS. SEDIMENT TRACKED ONTO PUBLIC ROADWAYS OR SIDEWALKS SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED OF IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.

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

13) CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO BE WITHIN THE IDENTIFIED DISTURBANCE LIMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL EXCESS MATERIAL OFF-SITE TO AN APPROVED FACILITY (AS PER NOTE 8 AND SEE NOTE 7 FOR THE DEFINITION OF CONSTRUCTION WASTES).

14) IMPORTANT: STORMWATER RUNOFF IS NOT TO BE DIRECTED TO UNPROTECTED STORMWATER MANAGEMENT SYSTEMS, STORMWATER CONVEYANCE SYSTEMS, OR INFILTRATION BED AREAS UNTIL THE SITE IS AT FINAL GRADE AND STABILIZED.

15) STOCKPILE HEIGHTS MUST NOT EXCEED 15 FEET. STOCKPILE SIDE SLOPES MUST BE 3H:1V MAXIMUM.

16) DURING UTILITY LINE CONSTRUCTION, EXCAVATE UTILITY LINE TRENCHES ONLY AS REQUIRED. LIMIT ADVANCE EXCAVATION TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY. TRENCH PLUGS, AS SHOWN ON THE DRAWINGS, ARE TO BE INSTALLED PER PADEP CHAPTER 102 REQUIREMENTS. WATER, WHICH ACCUMULATES IN THE OPEN TRENCH, WILL BE COMPLETELY REMOVED BY PUMPING INTO A FILTER BAG IN ACCORDANCE WITH PADEP CHAPTER 102 REQUIREMENTS. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL GRADE, AND SEEDED AND MULCHED

17) FILTREXX SILTSOXX™, INLETSOXX™, RUNOFF DIVERSION SOXX™, AND ANY OTHER FILTREXX BMPS EMPLOYED AS PART OF THE ESCP FOR THE PROJECT MUST FOLLOW THE MANUFACTURER'S DISPOSAL/RECYCLING INSTRUCTIONS FOR EACH SPECIFIC BMP UTILIZED THROUGHOUT THE PROJECT'S CONSTRUCTION AND EARTHMOVING OPERATIONS.

18) DURING FOUNDATION CONSTRUCTION, PUMP WATER ACCUMULATED IN OPEN TRENCHES INTO FILTER BAGS IN ACCORDANCE WITH PADEP CHAPTER 102 REQUIREMENTS. REFER TO DETAIL 7 ON C603. WHEN THE FILTER BAG IS 1/2-FULL IT SHOULD BE REPLACED. ANY ACCUMULATED SEDIMENTATION WILL BE MIXED WITH SOIL AND PROPERLY DISPOSED OF ON THE SITE IF POSSIBLE OR DISPOSED OF AT AN OFFSITE AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL EXCESS MATERIAL OFF-SITE TO AN APPROVED FACILITY (AS PER NOTE 8).

19) IMPORTANT: A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED, AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THAT THEY WERE CORRECTED, SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.

20) ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN ACCORDANCE WITH NOTE 8.

21) ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED UPON REACHING FINAL GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. 22) AREAS WHICH ARE TO RECEIVE TOPSOIL SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 4 INCHES PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE

A MINIMUM OF 2 INCHES OF TOPSOIL. 23) UNTIL THE SITE IS STABILIZED, ALL E&S BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL E&S BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT,

REPAIR, REPLACEMENT, REGARDING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF E&S BMPS FAIL TO

PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED. 24) UPON COMPLETION OF ANY EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE

REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS. 25) EROSION AND SEDIMENTATION CONTROL BMPS SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT STABILIZATION OF ALL TRIBUTARY AREAS HAS BEEN ACHIEVED. FOR AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OF AN ACTIVITY TO BE CONSIDERED PERMANENTLY STABILIZED, THE DISTURBED AREAS SHALL BE COVERED BY ONE OF THE FOLLOWING:

A. A MINIMUM UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED.

B. AN ACCEPTABLE BMP THAT PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION.

26) AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS MUST BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID RE-VEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSION SHOULD BE DONE ONLY DURING GERMINATING SEASON.

27) UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.

28) IMPORTANT: FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES INSTITUTED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

FILL PLACEMENT NOTES:

) ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS

2) ALL FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS.

3) FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

4) FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

5) FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. 6) REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL EARTHWORK RECOMMENDATION.

Fukui Architects Pc

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NOT FOR CONSTRUCTION -**ISSUED FOR BID**

general notes

Any conflicts in the drawings or between new and existing construction shall be referred to the Architect.

2. 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

4. Contractor shall be responsible for the patching, repairing

assemblies. Contractor shall provide and install all

3. All work shall be installed in accordance with applicable codes and regulations.

and preparations of all existing floor, wall, and ceiling surfaces as required to receive scheduled finishes. 5. All items shown on drawings are finished construction

material required for finished assemblies. **6.** 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 REVISED 2022/03/04 REVISED 2022/03/30 REVISED 2022/04/29

✓ 16 \ REVISED 2023/01/11

<u>project title</u>

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

EROSION AND SEDIMENTATION CONTROL NOTES

Sheet No. As Noted

December 10, 2021

Project #2040

drawing title

FIRE PROTECTION SYMBOLS AND LEGEND						
DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	
BACK FLOW PREVENTER	N	BFP	METER	M	М	
BALL VALVE	•	BV	MINIMUM		MIN	
BALANCING VALVE	炒	BV	mop basin		MB	
BATH TUB/ HANDICAP BATH TUB		BT/HBT	PENDENT SPRINKLER HEAD	•		
BRITISH THERMAL UNIT		BTU	PIPE TEE DOWN			
BUTTERFLY VALVE	ΠI	BTV	PIPE DOWN	—⇒		
CAPPED PIPE	E	CAP	PIPE UP			
CONCENTRIC REDUCER			PRESSURE GAUGE	9		
CONNECT TO EXISTING	•	CTE	PRESSURE REDUCING VALVE	Ŕ	PRV	
CONTINUATION		CONT	POUNDS PER SQUARE INCH		PSI	
CHECK VALVE	Ž	CV	PUMP	0	PUMP	
DOMESTIC HOT WATER	——HW——	HW	SCHEDULE		SCHED	
DOMESTIC WATER HEATER	_	DWH	SIDEWALL SPRINKLER HEAD	•		
ELEVATION	EL	EL	SINGLE HOSE CONNECTION	0		
FINISHED FLOOD	FF	FF	SLOPE		SL	
RE DEPARTMENT CONNECTION	>	FDC	SPRINKLER LINE	——————————————————————————————————————	SPR	
FIRE PROTECTION		FP	STAND PIPE RISER	•	STR	
FIRE WATER MAIN	——F——	F	STRAINER	H		
FLOOR DRAIN	0—	FD	TAMPER SWITCH	Ts	TS	
FLOW SWITCH	FS	FS	UNION CONNECTION	ıİI	UC	
FOOT/FEET	·	FT	NOT TO SCALE	N.T.S.	NTS	
GATE VALVE	内	GTV	recessed sprinkler head	•		
INDIRECT CONNECTION	Y	IC	reference		REF	
KEYED NOTE	(#)		UPRIGHT SPRINKLER HEAD	0		
MAXIMUM		MAX	VERTICAL VALVE	4	VV	

FIRE PROTECTION NOTES:

- 1. THE PROJECT SHALL CONSIST OF THE INSTALLATION OF A NEW SPRINKLER SYSTEM THROUGHOUT AN EXISTING BUILDING.
- 2. THE LIGHT HAZARD WET SPRINKLER SYSTEM SHALL COMPLY WITH NFPA 13, 2013 ed., THE COMMONWEALTH OF PENNSYLVANIA BUILDING, MECHANICAL, AND FIRE PREVENTION CODES, OWNER'S INSURANCE CARRIER REQUIREMENTS, AND ALL OTHER APPLICABLE CITY, COUNTY, STATE, AND FEDERAL CODES AND AGENCIES HAVING JURISDICTION.
- 3. THE WET STANDPIPE SYSTEM FOR THIS BUILDING SHALL COMPLY WITH NFPA 14, 2013 ed., AND THE COMMONWEALTH OF PENNSYLVANIA BUILDING, MECHANICAL, AND FIRE PREVENTION CODES, OWNER'S INSURANCE CARRIER REQUIREMENTS, AND ALL OTHER APPLICABLE CITY, COUNTY, STATE, AND FEDERAL CODES AND AGENCIES HAVING JURISDICTION.
- 4. WHERE PERMITTED BY CODE, ORDINANCE, AND/OR THE AUTHORITY HAVING JURISDICTION, THE STANDPIPE SYSTEM SHALL BE COMBINED WITH THE SPRINKLER SYSTEM PER IFC CHAPTER 9, SECTION 905.6.
- 5. THE SYSTEM SHALL BE TESTED IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS AND CONTRACT SPECIFICATIONS. THE SYSTEM SHALL BE TESTED AND APPROVED BY THE LOCAL FIRE CODE OFFICIAL OR THEIR DESIGNEE. CERTIFICATION OF THE SYSTEM MUST BE PRESENTED TO THE OWNER AND THE OWNER'S INSURANCE AGENCY.
- 6. SYSTEMS MUST BE ARRANGED IN SUCH A MANNER THAT NO EXPOSED PIPES MAY APPEAR IN ANY FINISHED AREAS AND NO TEST OR DRAIN COCKS MAY BE LOCATED IN FINISHED AREAS.
- 7. A SET OF TWELVE (12) EXTRA SPRINKLER HEADS OF DIFFERENT TEMPERATURE RATINGS, AS USED IN THE PREMISES, TOGETHER WITH REPLACING TOOL SHALL BE LEFT IN A SPECIAL CABINET FOR EMERGENCY REPLACEMENTS AS PER NFPA 13, 2013 ed.
- 8. WHERE APPLICABLE, SEISMIC RESTRAINTS SHALL BE USED TO SUPPORT SYSTEM PIPING IN ACCORDANCE WITH ALL AGENCIES HAVING JURISDICTION.
- 9. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS. FILING FOR PERMITS FOR SPRINKLER WORK AS WELL AS PAYMENT OF ALL APPLICABLE FEES AND PREPARATION OF ALL SHOP DRAWINGS REQUIRED FOR FILING PLANS AND PERMITS SHALL BE PERFORMED BY THIS CONTRACTOR AS PART OF THE WORK SCOPE. THE CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE COMMONWEALTH OF PENNSYLVANIA. COPIES OF ALL EXECUTED PERMITS AND DRAWINGS SHALL BE FORWARDED TO THE OWNER FOR RECORD.
- 10. THE CONTRACTOR SHALL NOTIFY LOCAL AUTHORITIES IN REGARD TO SYSTEM SHUT-DOWN AND START-UP AND SHALL CONFIRM THAT SYSTEMS HAVE BEEN REFILLED AND ARE OPERATIONAL INCLUDING SYSTEM ALARMS EACH WORKING DAY.
- 11. ALL WORK SHOWN IS A DIAGRAMMATIC REPRESENTATION OF DESIGN INTENT AND CONDITIONS REASONABLY INTERPRETED FROM THE EXISTING VISIBLE CONDITIONS AND/OR DRAWINGS AND INFORMATION PROVIDED BY THE OWNER, BUT CANNOT BE GUARANTEED BY THE ENGINEER.
- 12. BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL CONDUCT AN ON SITE INSPECTION TO VERIFY EXISTING CONDITIONS. THIS INCLUDES DEPTH OF ALL BELOW GRADE PIPING, THE LOCATION AND SIZE OF ALL UTILITIES. COORDINATION WITH EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES, IS REQUIRED AND SHALL BE PROVIDED AT NO ADDITIONAL COST. ANY MAJOR DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- 13. THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH THE WORK OF OTHER TRADES, REQUIREMENTS OF ARCHITECT, ENGINEER, OWNER, LOCAL AUTHORITIES AND/OR BUILDING MANAGEMENT.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNION AND EQUAL OPPORTUNITY STANDARDS OR REQUIREMENTS WHERE APPLICABLE.
- 15. THE CONTRACTOR'S PRICE SHALL INCLUDE ALL HANGERS, INSERTS, COUPLINGS, TESTING, TOOLS, SUPERVISION, LABOR, COORDINATION, MATERIALS, EQUIPMENT, REMOVALS, CAPPING, PATCHING, DISPOSAL AND OTHER NECESSARY ITEMS TO PROVIDE THE SPRINKLER INSTALLATION.
- 16. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER AND ACCEPTABLE CONSTRUCTION, INSTALLATION, OR OPERATION OF ANY PART OF THE WORK AS DETERMINED BY THE ENGINEER SHALL BE INCLUDED IN THE WORK AS IF IT WERE SPECIFIED OR INDICATED IN THE DRAWINGS.
- 17. WHERE PERMITTED BY THE CODE, ORDINANCE, AND/OR THE AUTHORITY HAVING JURISDICTION, THE USE OF APPROVED CPVC FIRE SPRINKLER PIPE IS INCLUDED.
- 18. CONCEALED PIPING SHALL BE INSPECTED BEFORE COVERING.
- 19. ALL SPRINKLER HEADS SHALL BE INSTALLED CENTERED IN CEILING TILES IN BOTH DIRECTIONS, IF APPLICABLE.
- 20. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL NEW CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. ANY DAMAGE CAUSED BY, OR DURING THE EXECUTION OF THE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED TO THE OWNER'S SATISFACTION.
- 21. EQUIPMENT, MATERIALS AND WORKMANSHIP FURNISHED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL KEEP THE WORK IN GOOD REPAIR FOR ONE YEAR AFTER THE DATE OF FINAL APPROVAL. THE CONTRACTOR SHALL AT HIS OWN EXPENSE, CORRECT AND REPAIR PROMPTLY ANY AND ALL BREAKS, FAILURES OR WEAR DUE TO FAULTY MATERIALS, WORKMANSHIP OR EQUIPMENT, AND ALL SETTLEMENTS OF SURFACE THAT MAY OCCUR DURING THAT PERIOD.
- 22. ANY PENETRATION THROUGH FIRE RATED PARTITION SHALL BE STEEL SLEEVED AND SEALED WITH 3M BRAND U.L. RATED FIRE BARRIER CAULK OR APPROVED EQUAL.
- 23. THIS CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING ASSOCIATED WITH THE FIRE PROTECTION WORK.
- 24. UNLESS OTHERWISE NOTED, ALL SPRINKLER LINE RUNOUTS TO INDIVIDUAL SPRINKLER HEADS SHALL BE 1".
- 25. NO PIPING SHALL BE RUN OVER ELECTRICAL PANELS.

- 26. ALL FIRE DEPARTMENT HOSE CONNECTIONS THREAD TYPE SHALL BE COORDINATED WITH THE FIRE MARSHAL, THE FIRE CHIEF OR COMPLY WITH LOCAL ORDINANCES.
- 27. ALL FIRE DEPARTMENT CONNECTION LOCATIONS SHALL BE COORDINATED WITH THE FIRE MARSHAL, FIRE CHIEF, OR THE AUTHORITY HAVING JURISDICTION.



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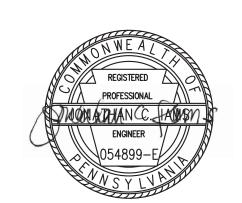


lams Consulting, LLC ENGINEERING ENVIRONMENTS

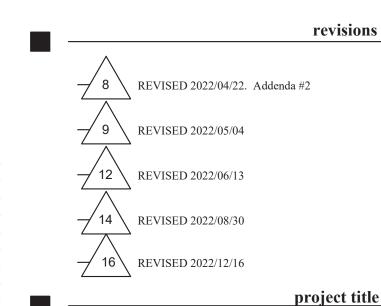
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seal



general notes



Owner:

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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 FIRE PROTECTION LEGEND AND GENERAL NOTES

As Noted December 10, 2021 18 **16**

Sheet No.

FP000

