

GRADING NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND THE RECOMMENDATIONS SET FORTH IN THE REPORTS REFERENCED IN THIS PLAN SET. UNLESS OTHERWISE SPECIFIED IN THE REPORTS, THE SITE GRADING, AND EXCAVATION SHALL BE IN ACCORDANCE WITH THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.
2. ALL MATERIAL AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH PENNDOT FORM 4-08 STANDARD SPECIFICATIONS UNLESS OTHERWISE INDICATED.
3. ALL SUBSURFACE STRUCTURE EXCAVATION SHALL BE CONDUCTED IN STRICT ACCORDANCE WITH THE APPROPRIATE SECTIONS OF THE GEOTECHNICAL ENGINEERS' RECOMMENDATIONS, AND THE OSHA 1926.651 SPECIAL EXCAVATION REQUIREMENTS.
4. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION/DEMOLITION ACTIVITIES AND REPORT ANY DISCREPANCIES AND INTERFERENCES TO THE OWNER THAT WOULD IMPAIR NEW CONSTRUCTION.
5. CONTRACTOR SHALL UNCOVER ALL EXISTING UTILITIES UNLESS AT NEW CONNECTION POINTS PRIOR TO THE START OF CONSTRUCTION.
6. PROPOSED GRADES & ELEVATIONS TO CONFORM TO THOSE SHOWN ON THE CONTRACT DRAWINGS AND/OR AS DIRECTED BY THE DISTRICT SURVEYOR.
7. PRIOR TO SITE CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT EXISTING DRAINAGE FACILITIES. CONTRACTOR SHALL PREVENT SILTATION FROM LEAVING THE SITE AT ALL TIMES.
8. CONTRACTOR SHALL CARRY OUT THE GRADING OPERATION IN SUCH WAY AS TO MINIMIZE SEDIMENTATION OF THE ADJACENT STORMWATER SYSTEMS. IT SHALL BE HIS RESPONSIBILITY TO IMPLEMENT AND MAINTAIN A SEDIMENTATION CONTROL PLAN FOR THE DURATION OF THE GRADING OPERATIONS.
9. STRIP BUILDING AND PAVEMENT AREAS OF ALL ORGANIC TOPSOILS, STOCKPILE SUITABLE TOPSOILS FOR RESPREADING ONTO LANDSCAPE AREAS. ALL EXCESS EXCAVATED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTORS EXPENSE.
10. AFTER COMPLETION OF THE ROUGH GRADING OPERATIONS, THE CONTRACTOR SHALL PROOF ROLL THE PAVEMENT AREA. SOFT SPOTS SHALL BE EXCAVATED AND STABILIZED UNDER THE SUPERVISION OF A SOILS ENGINEER.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS.
12. ALL OVERCUT AREAS SHALL BE BROUGHT BACK TO GRADE USING CRUSHED STONE OR SELECT BACKFILL MATERIAL.
13. TOPSOIL TO BE STOCKPILED ON-SITE SHALL BE AT THE DIRECTION OF THE OWNER. ALL STOCKPILED MATERIAL SHALL BE GRADED, COMPACTED AND STABILIZED WITH TEMPORARY SEEDING AND MULCHING IN ACCORDANCE WITH THE APPLICABLE EROSION CONTROL STANDARDS AND DETAILS.
14. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY PER A.S.T.M. TEST STANDARDS. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED SOILS ENGINEER REGISTERED WITHIN THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS. NOTIFY OWNER IF ANY UNSUITABLE SOILS ARE FOUND.
15. CONTRACTOR SHALL ADJUST MANHOLE LIDS, INLET GRATES, VALVE BOXES, VENTS, ETC. AS MAY BE REQUIRED TO MATCH THE DESIGNED FINISH GRADES.
16. SLOPE SIDEWALK AWAY FROM THE BUILDING.
17. CONTRACTOR SHALL PROVIDE BUTT END JOINTS TO MEET EXISTING PAVEMENT ELEVATION AT DRIVE RETURNS AND ENSURE POSITIVE DRAINAGE.
18. FOLLOWING GRADING OF SUBSOIL TO SUBGRADE ELEVATIONS, THE CONTRACTOR SHALL PLACE TOPSOIL TO A 6" DEPTH IN ALL DISTURBED AREAS WHICH ARE NOT TO BE PAVED. SMOOTHLY FINISH GRADE TO MEET SURROUNDING LAWN AREAS AND ENSURE POSITIVE DRAINAGE. STOCKPILED TOPSOIL SHALL BE SCREENED PRIOR TO RESPREADING. TOPSOIL SHALL BE FREE OF SUBSOIL, DEBRIS, BRUSH AND STONES LARGER THAN 1" IN ANY DIMENSION. ROCK HOUNDING IN PLACE WILL NOT BE PERMITTED. ALL EXCESS TOPSOIL SHALL BE LEGALLY DISPOSED OFF-SITE.
19. THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY AND CONSTRUCTION PROCEDURES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE OSHA STANDARDS, INCLUDING THE DESIGN OF ALL NECESSARY SHEATHING AND SHORING FOR EXCAVATIONS IN EXCESS OF FOUR (4) FEET IN DEPTH.
20. WORK TO BE DONE IN ACCORDANCE WITH STANDARD SPECIFICATIONS, APPROVED DRAWINGS, AND REGULATIONS OF THE DEPARTMENT OF STREETS, PHILADELPHIA WATER DEPARTMENT, PHILADELPHIA PARKS & RECREATION DEPARTMENT, AND SPECIAL PROVISIONS OF THE PROPOSAL.
21. THE HORIZONTAL CONTROL NETWORK IS REFERENCED TO THE PENNSYLVANIA SOUTH ZONE STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83). THE VERTICAL CONTROL NETWORK IS REFERENCED TO CITY OF PHILADELPHIA DATUM BASED ON RIM OF SEWER MANHOLE PROVIDED ON SEWER PLAN #10012863 (S-40669-RD) S-4.

REFERENCE BENCHMARK:
RIM OF SEWER MANHOLE, LOCATED AT THE INTERSECTION OF MASTER ST. & HANCOCK ST.
RIM ELEVATION = +17.25'

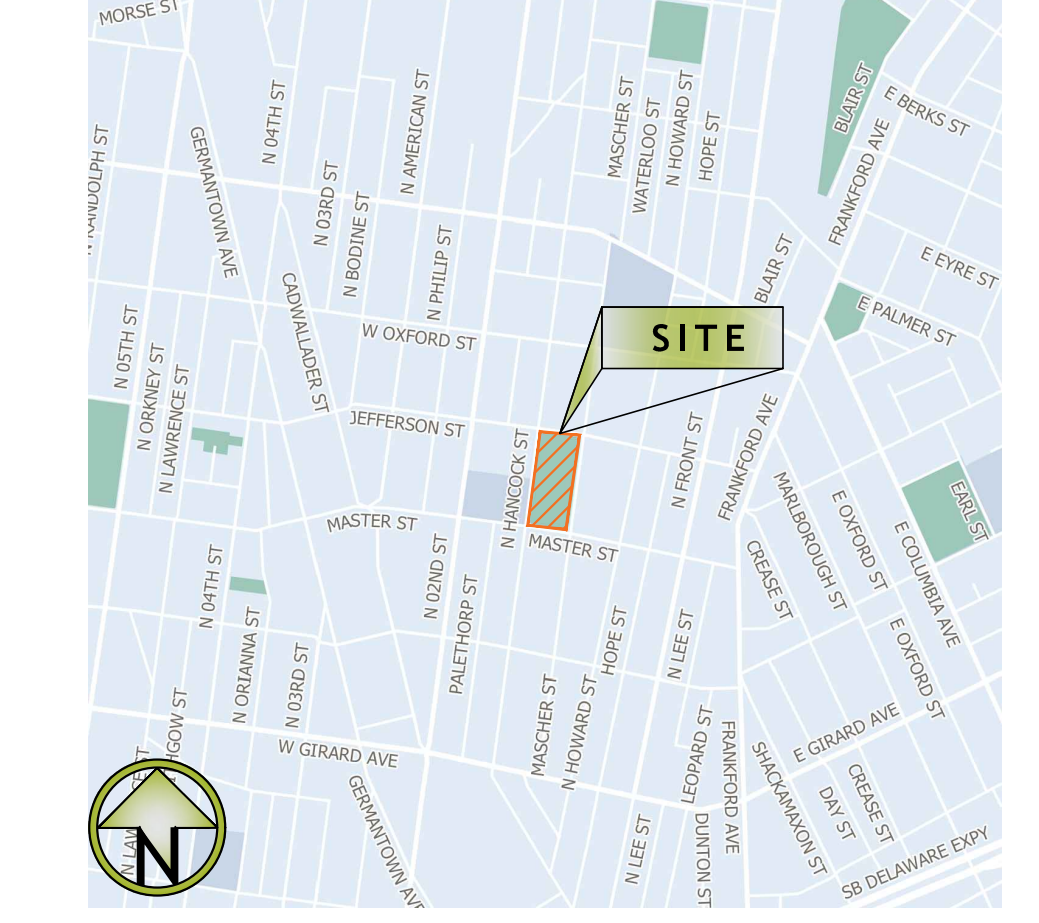
LEGEND - EXISTING

- BOLLARD
- UTILITY POLE WITH LIGHT
- FIRE HYDRANT
- HIGH PRESSURE FIRE HYDRANT
- LIGHT POLE
- SIGN
- BIKE RACK
- GAS VALVE, GAS BOX
- WATER VALVE
- CURB BOX UNKNOWN ORIGIN
- SEWER
- DOWNSPOUT
- HANDICAP RAMP
- TREE DECIDUOUS/TRUNK SIZE
- GRATE INLET
- YARD DRAIN
- R.O.W. LINE
- FENCE
- MINOR CONTOUR LINE
- MAJOR CONTOUR LINE
- OVERHEAD WIRES
- SEWER, MANHOLE
- GAS LINE, MANHOLE
- ELECTRIC LINE, MANHOLE
- WATER LINE, MANHOLE
- ASPHALT
- STONE PAVING
- CONCRETE
- GRASS
- WALL
- SAFETY MATTING
- TOP OF CURB ELEVATION
- BOTTOM OF CURB ELEVATION
- SPOT ELEVATION
- INVERT
- GRATE
- BOTTOM
- TOP OF WALL
- ELEVATION
- CONCRETE

LEGEND - PROPOSED

- CLEANOUT
- DOWNSPOUT
- WATER VALVE
- SEWER VENT
- BUILDING MOUNTED LIGHT
- LAMP POST
- AREA DRAIN
- TOP OF WALL ELEVATION
- PLAY SURFACE ELEVATION
- SOIL SURFACE ELEVATION
- FENCE
- WATER SERVICE CONNECTION
- SEWER CONNECTION
- GAS CONNECTION
- STORM PIPE, MANHOLE
- CONTOUR LINE
- PROJECT LIMITS
- FLOW ARROW
- PROPOSED MILL AND OVERLAY
- PROPOSED ASPHALT
- PROPOSED LANDSCAPING/LAWN
- PROPOSED SAFETY SURFACE

LOCATION MAP N.T.S.



UTILITY NOTES

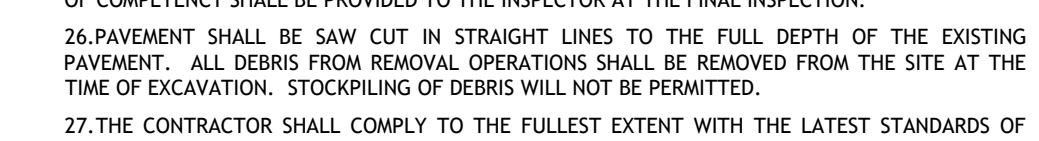
1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK WITH THE UTILITY COMPANIES. NEITHER THE CITY OF PHILADELPHIA, THE OWNER, NOR THE ENGINEER ARE RESPONSIBLE FOR ANY DELAYS INCURRED AS A RESULT OF UTILITY COORDINATION.
2. ALL PRIVATE UTILITY WORK AND THEIR CONNECTIONS SHALL BE SUBJECT TO PERMITTING AND INSPECTION BY THE DEPARTMENT OF LICENSES AND INSPECTIONS. THE CONTRACTORS BID PRICE SHALL INCLUDE ALL RELATED FEES AND APPURTENANCES REQUIRED BY THE LOCAL JURISDICTION TO PROVIDE COMPLETE AND WORKING FACILITIES.
3. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION/DEMOLITION ACTIVITIES AND REPORT ANY DISCREPANCIES AND INTERFERENCES TO THE OWNER THAT WOULD IMPAIR NEW CONSTRUCTION.
4. THE LOCATION OF UNDERGROUND UTILITIES IS TAKEN FROM PUBLIC RECORDS AND FIELD LOCATION OF VENTS, VALVES, MANHOLES, AND INLETS, ETC. THE EXTENT AND EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES HAS NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER & ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. THEREFORE, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH, AND LIMITS OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR AS A RESULT OF THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
5. UTILITY INFORMATION BEYOND THE IMMEDIATE DEVELOPMENT AREA MAY BE INCOMPLETE.
6. PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 121 (2008), THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE-CALL @ 1-800-242-1776, OR 811 AND SHALL CONTACT THE VARIOUS UTILITY COMPANIES AT LEAST 3 WORKING DAYS AND NOT MORE THAN 10 WORKING DAYS PRIOR TO COMMENCING EXCAVATION TO SCHEDULE A MARKOUT OF EXISTING UNDERGROUND UTILITIES AND OTHER STRUCTURES.
7. THE CONTRACTOR SHALL CONTACT THE VARIOUS UTILITY COMPANIES IMMEDIATELY UPON AWARD OF CONTRACT TO COORDINATE THE ESSENTIALS REQUIRED FOR COMPLETE SERVICE INSTALLATION. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY TIME FRAMES ESTABLISHED BY THE UTILITY COMPANIES FOR INSTALLATION OF FACILITIES.
8. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITY SERVICES TO THE EXISTING BUILDINGS AND SURROUNDING PROPERTIES. THE SURROUNDING PROPERTIES SHALL HAVE CONTINUOUS SERVICE OF ALL EXISTING UTILITIES DURING DEMOLITION OF ON-SITE UTILITIES.
9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL NECESSARY ELECTRICAL WORK WITH PECO ENERGY CO. INCLUDING ALL WORK REQUIRED FOR THE INSTALLATION OF THE ELECTRIC SERVICE TO THE PROPOSED FACILITIES INCLUDING STREET LIGHTS AND FOR THE DISCONNECTION OF EXISTING STREET LIGHT FEEDS THAT WILL BE ABANDONED, IF ANY.
10. DO NOT INTERFERE WITH THE OPERATION OF ANY FIRE HYDRANT, FIRE CALL BOX OR POLICE CALL BOX UNLESS DIRECTED TO DO SO BY THE CITY OF PHILADELPHIA.
11. THE CONTRACTOR SHALL ADJUST ALL UTILITY MANHOLE STRUCTURES TO MATCH PROPOSED GRADES. ALL WORK SHALL BE IN ACCORDANCE WITH THE APPROPRIATE UTILITY AUTHORITY.
12. ALL LOCATIONS AND ELEVATIONS OF THE EXISTING SEWERS ARE APPROXIMATE. THE ELEVATIONS OF THE EXISTING SEWERS AT THE TERMINATING CONNECTION POINTS OF THE PROPOSED SEWER MUST BE FIELD CHECKED PRIOR TO CONSTRUCTING THE NEW SEWER.
13. THE THICKNESS OF THE ARCHES, THE CHARACTER AND EXTENT OF THE CRADLES OF THE EXISTING SEWERS ARE UNKNOWN.
14. ELECTRIC, COMMUNICATION, NATURAL GAS MAINS, AND CONDUITS, WHERE APPLICABLE, SHALL BE PROVIDED WITHIN A PROPOSED UTILITY EASEMENT.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING AND BACKFILLING, PIPE INSTALLATION, PIPE MATERIAL, AND TAP CONNECTIONS. COORDINATE ALL WORK WITH THE PHILADELPHIA WATER DEPARTMENT.
16. ALL FLOOR DRAINS & AREA DRAINS SHALL BE TRAPPED IN ACCORDANCE WITH THE PLUMBING CODE.
17. ROADWAY AND FOOTWAY RESTORATION TO BE IN STRICT ACCORDANCE WITH THE STANDARD DETAILS AND SPECIFICATIONS OF THE PHILADELPHIA STREET DEPARTMENT, LATEST EDITION.
18. LIMIT ADVANCED CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY.
19. ALL SOIL EXCAVATED FROM THE TRENCH SHALL BE PLACED ON THE UPHILL SIDE.
20. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY.
21. WATER WHICH ACCUMULATES IN THE OPEN TRENCH SHALL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND / OR BACKFILLING BEGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPED THROUGH A FILTRATION DEVICE.
22. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA SHALL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.
23. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES, IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
24. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AS IDENTIFIED OR REQUIRED FOR PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
25. THE INSTALLATION OR REPAIR OF ANY UNDERGROUND FACILITIES OR PIPING WHICH CONNECTS TO OR FURNISHES WATER FOR THE PROPOSED FIRE PROTECTION SPRINKLER SYSTEM SHALL BE PERFORMED ONLY BY A LICENSED UTILITY CONTRACTOR, FIRE PROTECTION SPRINKLER CONTRACTOR, OR LICENSED PLUMBER. SEE O.C.G.A. TITLE 25, 11-7-11. A COPY OF THE LICENSE OR CERTIFICATE OF COMPETENCY SHALL BE PROVIDED TO THE INSPECTOR AT THE FINAL INSPECTION.
26. PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.
27. THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.

REFER TO:

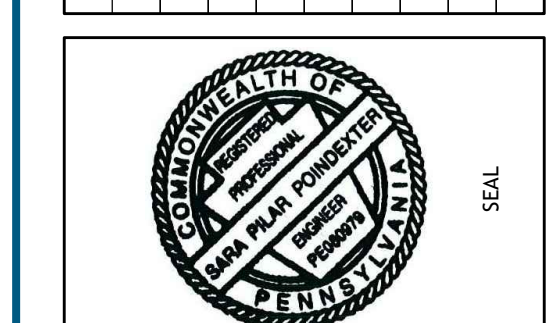
1. THE VARIOUS PLANS WHICH COMPRISE THE PLAN SET AS INDICATED ON THE COVER SHEET, PREPARED BY SALT DESIGN STUDIO.

PWD TRACKING #: FY20-HANC-5647-01

GRAPHIC SCALE



NO.	DATE	REVISIONS
3	02/13/20 J.G.	ADDENDUM #1
2	10/23/19 J.G.	REVISED PLAN PER COMMENTS RECEIVED 10/14/19
1	09/24/19 J.G.	REVISED PLAN PER UPDATED SITE LAYOUT 09/24/19
		NO.



SARA P. POINDEXTER, P.E.
PA PROFESSIONAL ENGINEER
LIC. NO. PE080979

DATE: 02/13/2020

SIGNATURE: *S. Poindexter*

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GRADING AND UTILITY PLAN
PREPARED FOR

SALT Design Studio

PROJECT : RENOVATIONS TO HANCOCK PLAYGROUND
PPR PROJECT NUMBER: 10-19-4399-01
ADDRESS: 147 MASTER STREET
Drwn/Chk By: J.G./S.P.
Municipality: CITY OF PHILADELPHIA
County: PHILADELPHIA
State: PENNSYLVANIA
Scale: 1"=20'
Project Number: SALT 2019-001A
File Name: SALT 2019-001A_DESIGN (1).dwg
Field Date: 03/02/2019
Completed: 08/22/2019

Drawing Number: **C-102**

IDENTIFIED UTILITIES DESIGN CONTACTS

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PHONE: 215-731-3283
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CONTACT: KELLY BLOUNT
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- COMPANY: PHILADELPHIA CITY WATER DEPARTMENT**
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2ND FLOOR ARA TOWER
PHILADELPHIA, PA. 191072994
CONTACT: ERIC PONERT
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PHONE: 215-685-6272
- COMPANY: PHILADELPHIA CITY DEPT OF STREETS**
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PHILADELPHIA, PA. 191021676
CONTACT: MAUREEN WANGARI
EMAIL: maureen.wangari@phila.gov

PA ONE CALL NUMBER: 20190572877, 20190572878, 20190572884 & 20190572888

"CALL BEFORE YOU DIG"

PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 121 (2008), THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM 1-800-242-1776, OR 811, 3 TO 10 WORKING DAYS PRIOR TO EXCAVATION.

STOP! CALL!