

ADDENDUM COVER SHEET

Addendum No. 1

Nicetown Park Renovations

Philadelphia Redevelopment Authority

Issue Date: February 26, 2024

ITEMS:

1. Revised Section 00813 EOP (Attached):

The EOP was revised to include the correct project in the header and document.

2. Revised Section 00100 Instruction to Bidders (Attached):

Construction Schedule added to Section.

3. Revised Project Drawings (Attached) include:

C-1.0 Existing Conditions Plan

- No Changes

C-1.1 Drainage & Utility Plan

- Added a callout for SMP-1-ALT
- Added a callout for Outlet Structure OS-1-ALT
- Added a callout and symbol for Media Filter MS-1-ALT

C-2.1 Stormwater Management Plan

- Added a callout for SMP-1-ALT
- Added a callout for SMP-1-ALT Invert Elevation

C-2.2 Stormwater Management Plan

- Added a symbol and callout for an observation well within SMP-1
- Added a callout for SMP-1-ALT
- Added a note for contractor to complete double ring infiltration tests meeting PWD standards prior to the start of work on SMP-1
- Added a note stating that SMP-1-ALT, MF-1-ALT, and OS-1-ALT are only to be installed if field infiltration testing indicates low hydraulic conductivity
- Added a callout for Outlet Structure OS-1-ALT
- Added a callout and symbol for Media Filter MS-1-ALT
- Added a callout and linework in plan view and Section View B-B for an 8" Perforated Underdrain to be installed surrounded by 6" within SMP-1-ALT

C-5.1 Utility Details

- Added a trash screen detail

C-5.2 Construction Details

- Added an Observation Well detail
- Added a detail for Outlet Control Structure OS-1-ALT

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Nicetown Park Renovations

Philadelphia Redevelopment Authority

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C-5.3 Construction Details

- Added a Media Filter detail

CE-1.1 Erosion and Sedimentation Control Plan

- No changes

CE-5.1 Erosion and Sedimentation Control Details

- No changes

CE-7.1 Erosion and Sedimentation Control Notes

- Added sequence of construction notes for SMP-1-ALT

- Bidders must acknowledge receipt of Addendum No. 1. The signed acknowledgement must be included in your bid proposal. Please sign below:

Acknowledgement of Addendum No. 1

**City of Philadelphia
Economic Opportunity Plan**

NICETOWN PARK RENOVATIONS

I. Introduction, Definitions, Goals and Diversity Practices

The City of Philadelphia, acting through its offices of the Division of Housing and Community Development (“DHCD”) and Office of Economic Opportunity (“OEO”) (collectively, “City”) and the Philadelphia Redevelopment Authority (“PRA”) strongly encourage the use of certified Minority (“MBE”), Women (“WBE”), Disabled (“DSBE”) and Disadvantaged¹ (“DBEs”) Business Enterprises (collectively, “M/W/DSBEs”) and minority and female workers in all aspects of the development and use of a parcel(s) of land located at **NICETOWN PARK RENOVATION PROJECT, 4301 GERMANTOWN AVENUE, PHILADELPHIA 19140** which may include financial investment, design, construction and operations (Project). In support of this objective, City and PRA will require that the _____ (“Contractor”) of this parcel commit to this Economic Opportunity Plan (“EOP” or “Plan”) as required by Section 17-1602 of The Philadelphia Code, as amended.

This Plan contains ranges of projected M/W/DSBE utilization and goals for the employment of minority and female workers in connection with the Project. Contractor shall cause this Plan to be made part of and incorporated into all bids, proposals and solicitations and any resulting agreement(s) entered into between Contractor and any participant in connection with the development and use of the parcel. By submission of this Plan, Contractor makes a legally binding commitment to the City and PRA to abide by the provisions of this Plan which include its commitment to exercise its Best and Good Faith Efforts throughout the project and its commitment to cause its participants to use their Best and Good Faith Efforts to provide subcontracting opportunities for M/W/DSBEs in all phases of the project and to employ a diverse workforce. This Plan expressly applies to all contracts awarded in connection with the Project.

Neither Contractor nor any participant shall discriminate on the basis of race, color, religion, sex, national origin, sexual orientation, gender identity, ancestry, age, or handicap in the award and performance of contracts pertaining to this Plan. Contractor has summarized its current and past practices relating to Contractor’s diversity practices (“Diversity Practices Statement”). This statement, included as Attachment “A” to this Plan, identifies and describes Contractor’s processes used to develop diversity at all levels of Contractor’s organization including, but not limited to, board and managerial positions. This Diversity Practices Statement summarizes Contractor’s strategic business plans specific to its current or past practices of M/W/DSBE utilization on its government and non-government projects and procurement activities. Contractor further agrees to identify any “Equity Ownership” held in connection with this Project which shall mean the percentage of beneficial ownership in the Contractor’s organization or development team that is held by minority persons, women and disabled persons. In the event Equity Ownership is identified, Contractor agrees to abide by the reporting requirements enumerated in Section 17-1603 (1)(g)(.3).

Contractor hereby verifies that all information submitted to the City in response to this Plan, is true and correct and is notified that the submission of false information is subject to the penalties of 18 Pa.C.S. Section 4904 (relating to unsworn falsification to authorities) and 18

¹Disadvantaged Business Enterprises (“DBEs”) are those socially or economically disadvantaged minority and woman owned businesses certified under 49 C.F.R. Part 26.

Pa.C.S. Section 4107.2 (a)(4) (relating to fraud in connection with minority business enterprises or women's business enterprises).

For the purposes of this Plan, MBE, WBE, DBE and DSBE shall refer to certified businesses so recognized by OEO. Only the work or supply effort of firms that are certified as M/W/DSBEs by an OEO approved certifying agency² will be eligible to receive credit as a Best and Good Faith Effort. In order to be counted, certified firms must successfully complete and submit to the OEO an application to be included in the OEO Registry which is a list of registered M/W/DSBEs maintained by the OEO and available online at www.phila.gov/oEO/directory.

For this Plan, the term “Best and Good Faith Efforts,” the sufficiency of which shall be in the sole determination of the City, means: efforts, the scope, intensity and appropriateness of which are designed and performed to foster meaningful and representative opportunities for participation by M/W/DSBEs and an appropriately diverse workforce and to achieve the objectives herein stated. Best and Good Faith Efforts are rebuttably presumed met, when commitments are made within the M/W/DSBE Participation Ranges established for this development and a commitment is made to employ a diverse workforce as enumerated herein.

II. Goals

A. M/W/DSBE Participation Ranges

The City of Philadelphia has established a citywide goal of 35% M/W/DSBE utilization as informed by its Annual Disparity Study.³ This citywide goal should be used as a benchmark for the Contractor’s expression of Best and Good Faith Efforts which are efforts taken by Contractor to provide meaningful and representative opportunities for M/W/DSBEs in the Project. For this project, in the absence of discrimination in the solicitation and selection of M/W/DSBEs, the percentage of MBE, WBE and DSBE participation that is reasonably attainable through the exercise of Best and Good Faith Efforts is stated below as participation ranges. These percentages relate to the good faith estimated cost of the entire Project. In order to maximize opportunities for as many businesses as possible, a firm that is certified in two or more categories (e.g. MBE and WBE and DSBE or WBE and DSBE) will only be credited toward one participation range as either an MBE or WBE or DSBE. The firm will not be credited toward more than one category. These ranges are based upon an analysis of factors such as the size and scope of the development and the availability of MBEs, WBEs, DSBEs and DBEs to participate in this Project:

MBE	WBE
18%	7%

²A list of “OEO approved certifying agencies” can be found at www.phila.gov/oEO

³ The City of Philadelphia FY’16 Annual Disparity Study recommends an overall goal of 35% based upon an analysis of FY’16 utilization and availability.

B. Workforce Goals for a Diverse Workforce

As a benchmark for the expression of “Best and Good Faith Efforts” to provide meaningful and representative opportunities for diverse workers in the Project, the following goals have been established for the employment of minority persons and females in the Project workforce of apprentices and journeymen at the following levels⁴:

African American Journeypersons – 22% of all journey hours worked across all trades

Asian Journeypersons – 3% of all journey hours worked across all trades

Hispanic Journeypersons – 15% of all journey hours worked across all trades

Female Journeypersons – 5% of all journey hours worked across all trades

Minority Apprentices – 50% of all hours worked by all apprentices

Female Apprentices – 5% of all hours worked by all apprentices

III. Responsiveness

A. Contractor shall, and shall cause its participants to identify all M/W/DSBE commitments and agree to employ a diverse workforce on the form entitled, “M/W/DSBE Participation and Workforce Commitments.” The commitments on this form constitute a representation that the identified M/W/DSBE is capable of providing commercially useful goods or services relevant to the commitments and that the Contractor and its participants have entered into legally binding agreements with the listed M/W/DSBEs for the work or supply effort described and the dollar/percentage amount(s) set forth on the form. In calculating the percentage of M/W/DSBE participation, the standard mathematical rules apply in rounding off numbers. In the event of inconsistency between the dollar and percentage amounts listed on the form, the percentage will govern.

B. M/W/DSBE commitments are to be memorialized in a written subcontract agreement. Letters of intent, quotations, contracts, subcontracts and any other documents evidencing commitments with M/W/DSBEs, including the M/W/DSBE Participation and Workforce Commitments Form, become part of and an exhibit to this Plan.

C. DHCD will review the M/W/DSBE Participation and Workforce Commitments Form for the purpose of determining whether Best and Good Faith Efforts have been made. DHCD reserves the right to request further documentation and/or clarifying information at any time during the construction and development of the Project.

D. If Contractor, its participants or any subsequent developer makes any changes in contracts that have been reviewed by DHCD under the Plan, or if Contractor at the time of Closing has not yet identified contracts entered into for the development of the Project, then Contractor, its participants or any subsequent developer shall have the obligation to inform DHCD of any changes to the approved Plan and shall use Best and Good Faith efforts to use M/W/DSBEs for any new contracts.

⁴ These goals are informed by the City of Philadelphia’s annual disparity assessment of workforce diversity, the “Economic Opportunity Plan Employment Composition Analysis Fiscal Year 2016.”

IV. Compliance and Monitoring of Best and Good Faith Efforts

A. A hard copy of this Plan, as certified below by OEO, shall be filed with the Chief Clerk of City Council within fifteen (15) days of Closing. The Plan shall be filed with:

Michael Decker, Chief Clerk of City Council
Room 402 City Hall
Philadelphia, Pennsylvania 19107

B. Contractor and its participants agree to cooperate with DHCD in its compliance monitoring efforts, and to submit, upon the request of DHCD, documentation relative to their implementation of the Plan, including the items described below:

- Copies of signed contracts and purchase orders with M/W/DSBE subcontractors;
- Evidence of payments (cancelled checks, invoices, etc.) to subcontractors and suppliers to verify participation; and
- Telephone logs and correspondence relating to M/W/DSBE commitments.
- To the extent required by law, the Contractor and its participants shall ensure that all its on-site contractors maintain certified payrolls which include a breakout of hours worked by minority and female apprentices and journeymen; these documents are subject to inspection by the City.

C. Prompt Payment of M/W/DSBEs

1. The Contractor and its participants agree and shall cause all its contractors to ensure that all M/W/DSBEs participating in the Project receive payment for their work or supply effort within five (5) business days after receipt of a proper invoice following satisfactory performance.

D. Oversight Process

1. Where the dollar value of development is in excess of Five Million Dollars (\$5,000,000), the Plan shall establish a Project Oversight Committee, consisting of, as appropriate, the contractor, developer or recipient of financial assistance and representatives of the Contractor, PRA, OEO, DCHD, City Council, and appropriate community organizations. Such Committee shall meet regularly, beginning no later than the initiation of the design phase of the project, and shall be responsible for facilitating compliance with the Plan. OEO will implement the Oversight Process, as required by Section 17-1603(b) of The Philadelphia Code. The Oversight Committee, through the Oversight Process, shall have within its purview the reconciliation of all compliance related issues or grievances. The Oversight Committee Process, as needed, will involve convening individual consultation or periodic small group meetings to include any or all of the constituent parties.

V. Remedies and Penalties for Non-Compliance

A. The Contractor acknowledges and agrees that its compliance with the requirements of this Plan is a material inducement for the Ordinance of City Council and Contractor's failure to substantially comply with the Plan may result in enforcement actions and the imposition of penalties as authorized by Sections 17-1605 and 17-1606 of The Philadelphia Code. Notwithstanding the foregoing, no privity of contract exists between PRA, the City and any M/W/DSBE identified in any contract resulting from implementation of the Plan. Neither PRA nor the City intends to give or confer upon any such M/W/DSBE any legal rights or remedies in connection with subcontracted services under any law or policy or by any reason of any contract resulting from implementation of the Plan except such rights or remedies that the M/W/DSBE may seek as a private cause of action under any legally binding contract to which it may be a party.

PRINT NAME OF CONTRACTOR DATE

SIGNATURE OF CONTRACTOR DATE

DEPUTY DIRECTOR COMPLIANCE DHCD DATE
MATTHEW THARAKAN

OFFICE OF ECONOMIC OPPORTUNITY DATE
LYNN NEWSOME, DEPUTY DIRECTOR, COMMERCE

SECTION 00100
INSTRUCTIONS TO BIDDERS

PART 1—GENERAL

1.1 BASIC INFORMATION

- A. The following is a list of basic bidding information for the convenience of Bidders. If discrepancies between information contained in this section and other Bidding Documents are uncovered, the requirements of the other Bidding Documents shall govern.

The entire project must be bid by a Single Prime General Contractor. Work does not need to be performed under separate prime contracts.

1. Project Title:

Nicetown Park Renovations

2. Project Location:

4301 Germantown Avenue, Philadelphia 19140

3. Mandatory Pre-Bid Meeting to be held on **February 27, 2024, at 11:30 AM** at the **Nicetown Park, 4301 Germantown Avenue, Philadelphia, PA 19140**
4. Bids shall be brought in person to **Nicetown Park, 4301 Germantown Avenue, Philadelphia, PA 19140, on March 12, 2024, at 10:00 AM** and opened immediately thereafter.
5. Submit one (1) original, complete, signed, Bid for Project.
6. Allowances are included.
7. Bids shall be valid for 60 calendar days after bid opening unless otherwise mutually extended by PRA and apparent low bidder.
8. Access to the site for inspection by the Bidders will be part of the mandatory pre-bid conference scheduled on the cover.
9. It should be understood and agreed by this bidder that funding for this project will be partially certified. It should be further understood that additional funding is subject to councilmanic appropriation of funds. Should the PRA fail to appropriate the necessary additional funds for this project, the Contract for that portion of the work not funded shall terminate automatically, without penalty, cost or liability to the PRA.

B. CONSTRUCTION SCHEDULE:

1. All site work (plumbing, walkways, stage constructions, electrical (include light pole installation), site furnishings) to be completed by end of July, except long lead items - stage canopy, restroom installation.

1.2 INVOLVED PARTIES:

- A. Contracting Agency:
Philadelphia Redevelopment Authority (PRA), 1234 Market Street, 16th Floor,
Philadelphia, PA, 19107
Robert LaBrum, Director, Design and Construction, Phone: 215-448-3046
Dennis Torres, Architect, Phone: 215-448-3075

- B. City of Philadelphia:
Department of Parks and Recreation
Francesco Cerrai, Project Director: 215-683-4449
Megan Funk, Project Coordinator: 267-809-7171

- C. Landscape Architect
Ground Reconsidered
915 Spring Garden Street
Philadelphia, PA 19123

- D. Civil Engineers
KSE Engineering
530 Walnut Street, Suite 460
Philadelphia, PA 19106

- E. MEP Engineers
Arora Engineering, Inc.
1600 Market Street, Suite 1630
Philadelphia, PA 19103

- F. Structural Engineers
David Mason and Associates, Suite 1130
123 S. Broad Street, Suite 1130
Philadelphia, PA 19109

1.3 DEFINITIONS

- A. Refer to Section 00700, "Standard Contract Requirements".

1.4 BIDDER'S REPRESENTATIONS

- A. Each Bidder by submitting a Bid represents that:
 - 1. The Bidder has read and understands the Bidding Documents and the Bid is made in accordance therewith.
 - 2. The Bidder has visited the site and is familiar with the local conditions under which the Work is to be performed and has correlated site observations with the requirements of the proposed Contract Documents.
 - 3. Bid is based upon the materials, systems and equipment required by the Bidding Documents without exception.

- B. The PRA assumes no responsibility for any representation made by any of its officers, agents, or employees concerning the nature of the Work or the general and local conditions unless such representation is included in the Contract Documents or Addenda.

1.5 BIDDING DOCUMENTS

- A. Copies of the Bidding Documents are available on the PHDC's website (<http://www.phdcphila.org>).
- B. PRA, in making copies of the Bidding Documents available on the above terms, does so only for the purpose of obtaining Bids on the Work and does not confer a license or agreement for any other use.
- C. Title to all Bidding Documents shall remain with the PRA.

1.6 INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS

- A. Bidders shall promptly notify the PRA of any ambiguity, inconsistency or error which they may discover upon examination of the Bidding Documents or of the site and local conditions.
- B. PRA will accept questions and requests for additional information directed in writing to **RFP@phdc.phila.gov up to 3:00 PM on February 29, 2024**. Responses and any additional information will be posted on the PHDC Website, (<http://www.phdcphila.org>), within 3 business days of this date.
- C. Clarifications or interpretations received prior to deadline for submission of Bids shall either be addressed in an Addendum which may also include an extension of the deadline for submission of Bids, or at the sole discretion of the PRA, no additional information will be issued, and the Bidders shall comply with the Bidding Documents as they exist. All bidders **MUST** acknowledge/sign **ALL** Addenda and include with their Proposal/Bid. All Addenda will be posted to the PHDC Website, (<http://www.phdcphila.org>).
- D. Any interpretation, correction or change of the Bidding Documents will be made by Addendum. Interpretations, corrections or changes of the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely upon such interpretations, corrections and changes.

1.7 SUBSTITUTIONS

- A. Requests for substitutions shall comply with Section 01630, "Substitution Procedures."

1.8 ADDENDA

- A. All Addenda and Additional information will be posted on the PHDC's website (<http://www.phdcphila.org>).
- B. All Addenda must be acknowledged/signed by the Bidder and included with their Proposal/Bids.

1.9 BIDDING PROCEDURES

- A. Form and Style of Bids:
 - 1. Submit Bids on forms provided in the Proposal package.
 - 2. Fill in blanks on the Bid by typewriter or otherwise in ink.

3. Where so indicated by the makeup of the Bid, express sums in both words and figures.
 4. The signer of the Bid must initial any interlineation, alteration or erasure.
 5. All requested Alternates shall be bid. If no change in the Base Bid is required, enter "No Change."
 6. Bids shall not contain any conditions or qualifications whatsoever.
 7. Bids shall include an allowance for permits and licenses in connection with all or any portion of the work.
 8. All coordination needed to procure and obtain the required permits and licenses necessary to perform the work in its entirety shall be the responsibility of the bidder/contractor. Payment under this allowance shall be for the actual permit or license fee(s). Additional costs to procure such permits or licenses will not be reimbursed to the bidder/contractor. Refer to section 00700 Standard Contract Requirements, Clause 35.
- B. Bid Security, See Section 00700 Standard Contract Requirements, Section 10.1.
1. Each Bid shall be accompanied by bid bond as per the requirements in Division 0
 2. Bid Bond shall be issued on form included in the Loose Proposal Package.
- C. Submission of Bids
1. The Bid, bid security, and other required documents shall be enclosed in a sealed opaque envelope identifying the Project name, the Bidder's name and address and the designated portion of the Work for which the Bid is submitted.
 2. Deposit Bids at the designated location prior to the time and date for submission of Bids indicated in the Invitation to Bid, or any extension thereof made by Addendum. Bids received after the time and date for submission of Bid will be rejected.
 3. The Bidder shall assume full responsibility for timely delivery at the location designated for submission of Bid.
 4. Oral, telephonic or telegraphic Bids are invalid and will not receive consideration.
- D. Modification or Withdrawal of Bid
1. A Bid may not be modified, withdrawn or canceled by the Bidder after the time and date designated for the receipt of Bids except as provided in the Standard Contract Requirements for Public Works Contracts.
 2. Prior to the time and date designated for receipt of Bids, any Bid submitted may be modified or withdrawn by notice to the party receiving Bids at the place designated for submission of Bids. Such notice shall be in writing on company letterhead under the signature of the Bidder.
 3. Withdrawn Bids may be resubmitted up to the time designated for the submission of Bids provided that they are then fully in conformance with these Instructions to Bidders.

1.10 CONSIDERATION OF BIDS

- A. Opening of Bids: Properly identified Bids received on time will be opened publicly.
- B. Rejection of Bids: The PRA has the right to reject any or all Bids and to reject a Bid not accompanied by data required by the Bidding Documents, or to reject a Bid which is in any way incomplete or irregular.

C. Acceptance of Bid (Award)

1. It is the intent of the City to award a Contract to the lowest responsive and responsible Bidder.
2. If Alternates are to be included in the award, they will be accepted in the order listed.

1.11 CONTRACT PROCESSING

- A. Successful bidder shall be sent Contract forms from Philadelphia Redevelopment Authority (PRA), 1234 Market Street, 16th Floor, Philadelphia, PA, Attn: Robert LaBrum, Director, Design and Construction and shall return properly executed contract forms and bond forms within ten (10) working days Philadelphia Redevelopment Authority (PRA), 1234 Market Street, 16th Floor, Philadelphia, PA, Attn: Robert LaBrum, Director, Design and Construction
- B. The PRA may vacate awards for failure to comply with provisions above.

1.12 PERFORMANCE BONDS

- A. Bond Requirements: Bidder shall furnish bonds covering the faithful performance of the Contract and the payment of all obligations arising thereunder per the requirements of the Standard Contract Requirements and other requirements of the Bidding Documents.
- B. Bidder shall provide and furnish bonds to the contract limit which includes the contingency.

1.13 INSURANCE CERTIFICATES

- A. The successful Bidder will not be permitted to start any Work under the Contract until certificates covering all insurance requirements are submitted per the Standard Contract Requirements and other requirements of the Bidding Documents.

1.14 PRE-BID INFORMATION

- A. Pre-bid information regarding the Project is correct and current at the time it is issued and is offered to obtain Bids.
- B. The pre-bid information cannot be guaranteed to remain correct in every detail throughout the time preceding the signing of the Contract due to such variables as changes in budget, labor and material markets and anticipated date of issuing the notice to proceed.
- C.

1.15 INFORMATION AVAILABLE TO BIDDERS

- A. Geotechnical Information
 1. Not applicable
- B. Site Visit
 1. Bidders shall make themselves familiar with all readily observable features of the Project Site. Readily observable features include spaces above lay-in ceilings, behind access panels and other similar areas not normally exposed to view but easily accessible.
 2. Bidder shall not rely solely on Contract Drawings or Record Drawings.
 3. Uncovered conditions differing substantially from those indicated on Record Drawings and not observable during the pre-bid visit will be considered for modification to the Contract.

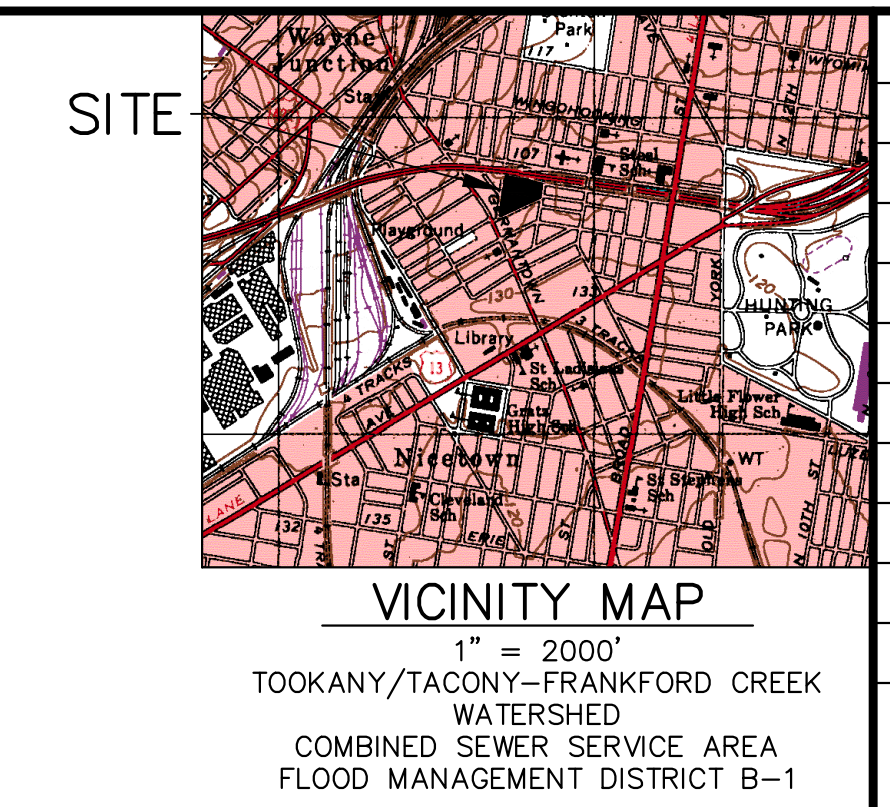
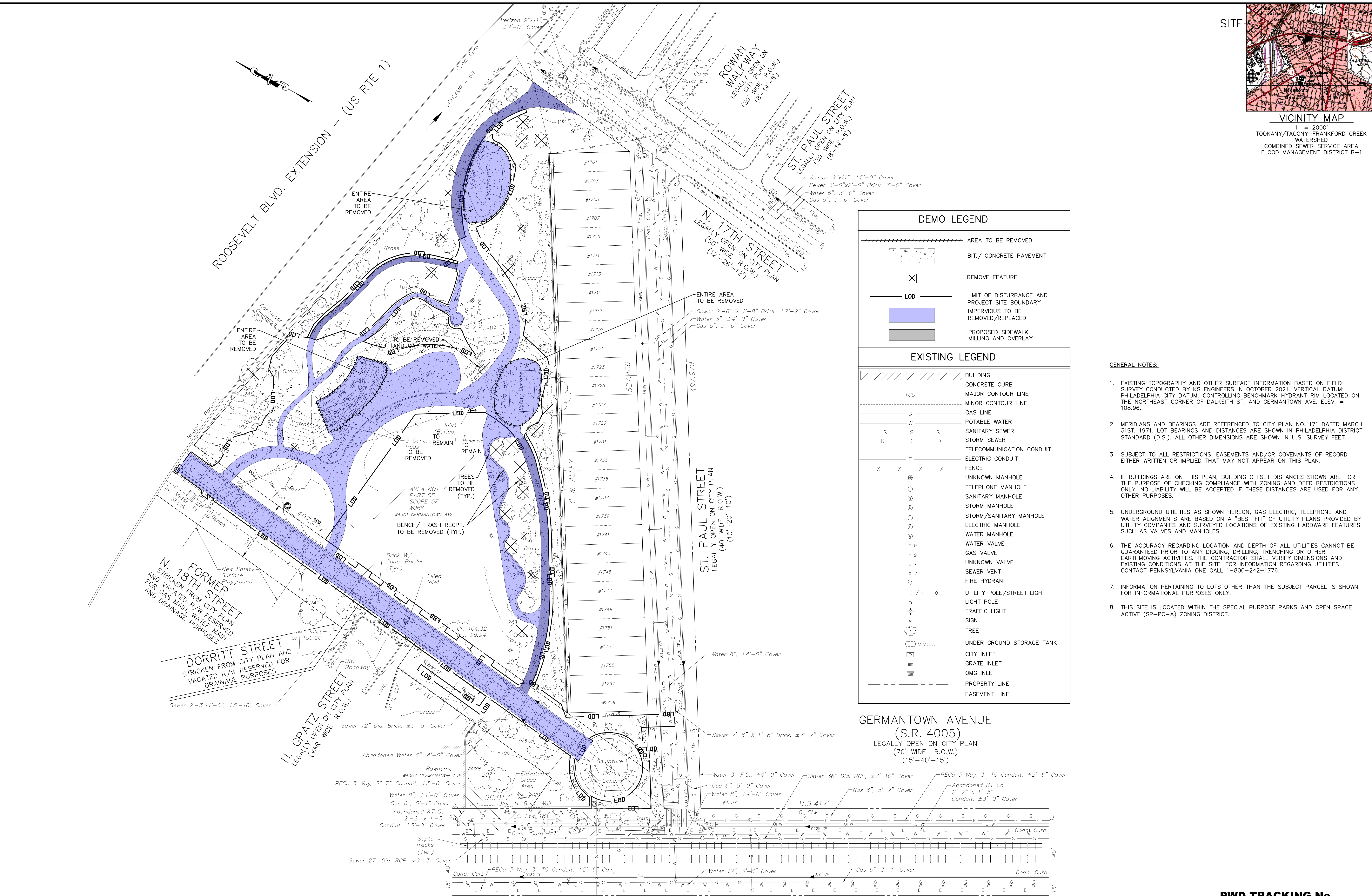
C. Record Drawings

1. Record drawings of existing construction can be made available to Bidder at cost of reproduction for use in preparing bids.
2. Record Drawings were used for design purposes only and shall not be used for construction.
3. The Record Drawings are attached and identified in Section 00015 "List of Drawings".

PART 2—PRODUCTS Not Used

PART 3—EXECUTION Not Used

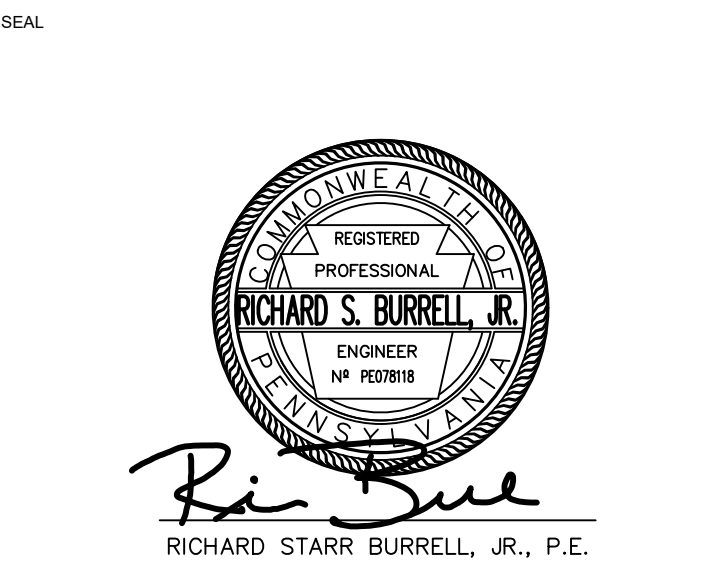
END OF SECTION



REVISIONS		
ISSUE	DATE	REVISIONS
A	02.06.2024	REVISED PER PWD PDSM REVIEW COMMENTS
1	02.23.2024	ADDENDUM 1



PROJECT COORDINATOR
Philadelphia Parks & Recreation
and Department of Public Property
1515 Arch Street, 11th Floor
Philadelphia, PA 19102



DEMO LEGEND	
	AREA TO BE REMOVED
	BIT / CONCRETE PAVEMENT
	REMOVE FEATURE
	LIMIT OF DISTURBANCE AND PROJECT SITE BOUNDARY IMPERVIOUS TO BE REMOVED/REPLACED
	PROPOSED SIDEWALK MILLING AND OVERLAY

EXISTING LEGEND	
	BUILDING
	CONCRETE CURB
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	GAS LINE
	POTABLE WATER
	SANITARY SEWER
	STORM SEWER
	TELECOMMUNICATION CONDUIT
	ELECTRIC CONDUIT
	FENCE
	UNKNOWN MANHOLE
	TELEPHONE MANHOLE
	SANITARY MANHOLE
	STORM MANHOLE
	STORM/SANITARY MANHOLE
	ELECTRIC MANHOLE
	WATER MANHOLE
	WATER VALVE
	GAS VALVE
	UNKNOWN VALVE
	SEWER VENT
	FIRE HYDRANT
	UTILITY POLE/STREET LIGHT
	LIGHT POLE
	TRAFFIC LIGHT
	SIGN
	TREE
	UNDER GROUND STORAGE TANK
	CITY INLET
	GRATE INLET
	OMG INLET
	PROPERTY LINE
	EASEMENT LINE

GENERAL NOTES:

- EXISTING TOPOGRAPHY AND OTHER SURFACE INFORMATION BASED ON FIELD SURVEY CONDUCTED BY KS ENGINEERS IN OCTOBER 2021. VERTICAL DATUM: PHILADELPHIA CITY DATUM. CONTROLLING BENCHMARK HYDRANT RIM LOCATED ON THE NORTHEAST CORNER OF DALKEITH ST. AND GERMANTOWN AVE. ELEV. = 108.96.
- MERIDIANS AND BEARINGS ARE REFERENCED TO CITY PLAN NO. 171 DATED MARCH 31ST, 1971. LOT BEARINGS AND DISTANCES ARE SHOWN IN PHILADELPHIA DISTRICT STANDARD (D.S.). ALL OTHER DIMENSIONS ARE SHOWN IN U.S. SURVEY FEET.
- SUBJECT TO ALL RESTRICTIONS, EASEMENTS AND/OR COVENANTS OF RECORD EITHER WRITTEN OR IMPLIED THAT MAY NOT APPEAR ON THIS PLAN.
- IF BUILDINGS ARE ON THIS PLAN, BUILDING OFFSET DISTANCES SHOWN ARE FOR THE PURPOSE OF CHECKING COMPLIANCE WITH ZONING AND DEED RESTRICTIONS ONLY. NO LIABILITY WILL BE ACCEPTED IF THESE DISTANCES ARE USED FOR ANY OTHER PURPOSES.
- UNDERGROUND UTILITIES AS SHOWN HEREON, GAS ELECTRIC, TELEPHONE AND WATER ALIGNMENTS ARE BASED ON A "BEST FIT" OF UTILITY PLANS PROVIDED BY UTILITY COMPANIES AND SURVEYED LOCATIONS OF EXISTING HARDWARE FEATURES SUCH AS VALVES AND MANHOLES.
- THE ACCURACY REGARDING LOCATION AND DEPTH OF ALL UTILITIES CANNOT BE GUARANTEED PRIOR TO ANY DIGGING, DRILLING, TRENCHING OR OTHER EARTHMOVING ACTIVITIES. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND EXISTING CONDITIONS AT THE SITE. FOR INFORMATION REGARDING UTILITIES CONTACT PENNSYLVANIA ONE CALL 1-800-242-1776.
- INFORMATION PERTAINING TO LOTS OTHER THAN THE SUBJECT PARCEL IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- THIS SITE IS LOCATED WITHIN THE SPECIAL PURPOSE PARKS AND OPEN SPACE ACTIVE (SP-PO-A) ZONING DISTRICT.

SOIL SYMBOL	SOIL DESCRIPTION	% OF SITE	RUNOFF CLASS	HYDRIC SOIL	SLOPE RANGE	DEPTH
Ub	URBAN-LAND	100.00%	VERY HIGH	NO	0-8%	0"-10"

LIMIT OF DISTURBANCE (LOD) SUMMARY TABLE		
TOTAL SITE AREA	96,462 S.F.	2.21 ACRES
LOD ON SITE	41,737 S.F.	0.958 ACRES
LOD IN R.O.W.	213 S.F.	0.005 ACRES
TOTAL LOD	41,950 S.F.	0.963 ACRES

ACT 187
IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 187 AND TO CONTACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR TO START OF CONSTRUCTION.
PENNSYLVANIA ONE CALL: 1-800-242-1776

PHILADELPHIA WATER DEPARTMENT
1101 MARKET STREET, 2nd FLOOR
PHILADELPHIA, PENNSYLVANIA 19107
(215) 685-6270

VERIZON
900 RACE STREET
PHILADELPHIA, PENNSYLVANIA 19107
(215) 351-8947

PHILADELPHIA GAS WORKS
800 W. MONTGOMERY AVENUE, 3RD FLOOR
PHILADELPHIA, PENNSYLVANIA 19122
(215) 684-6796

COMCAST
1351 S. COLUMBUS BOULEVARD
PHILADELPHIA, PENNSYLVANIA 19147
(215) 952-4935

PECO-CONSTRUCTION DEPARTMENT
2301 MARKET STREET
PHILADELPHIA, PENNSYLVANIA 19103
(215) 731-3264



WHAT YOU DON'T KNOW CAN HURT YOU.
CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE & 10 WORKING DAYS IN DESIGN STAGE.
Pennsylvania One Call System, Inc.
1-800-242-1776

SITE LOCATION:
4301 GERMANTOWN AVENUE
PHILADELPHIA, PA 19134

OPA ACCOUNT NO.:
132257005

PROPERTY OWNER:
CITY OF PHILADELPHIA

PROPERTY OWNER ADDRESS:
NICE TOWN PARK
1401 JOHN F. KENNEDY BLVD
PHILADELPHIA, PA 19102-1617

APPLICANT:
GROUND RECONSIDERED

ZONING:
SPPOA-RECREATION

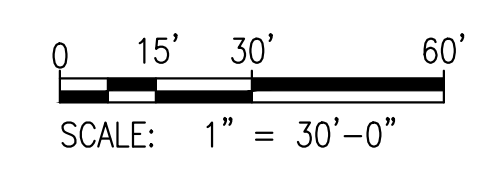
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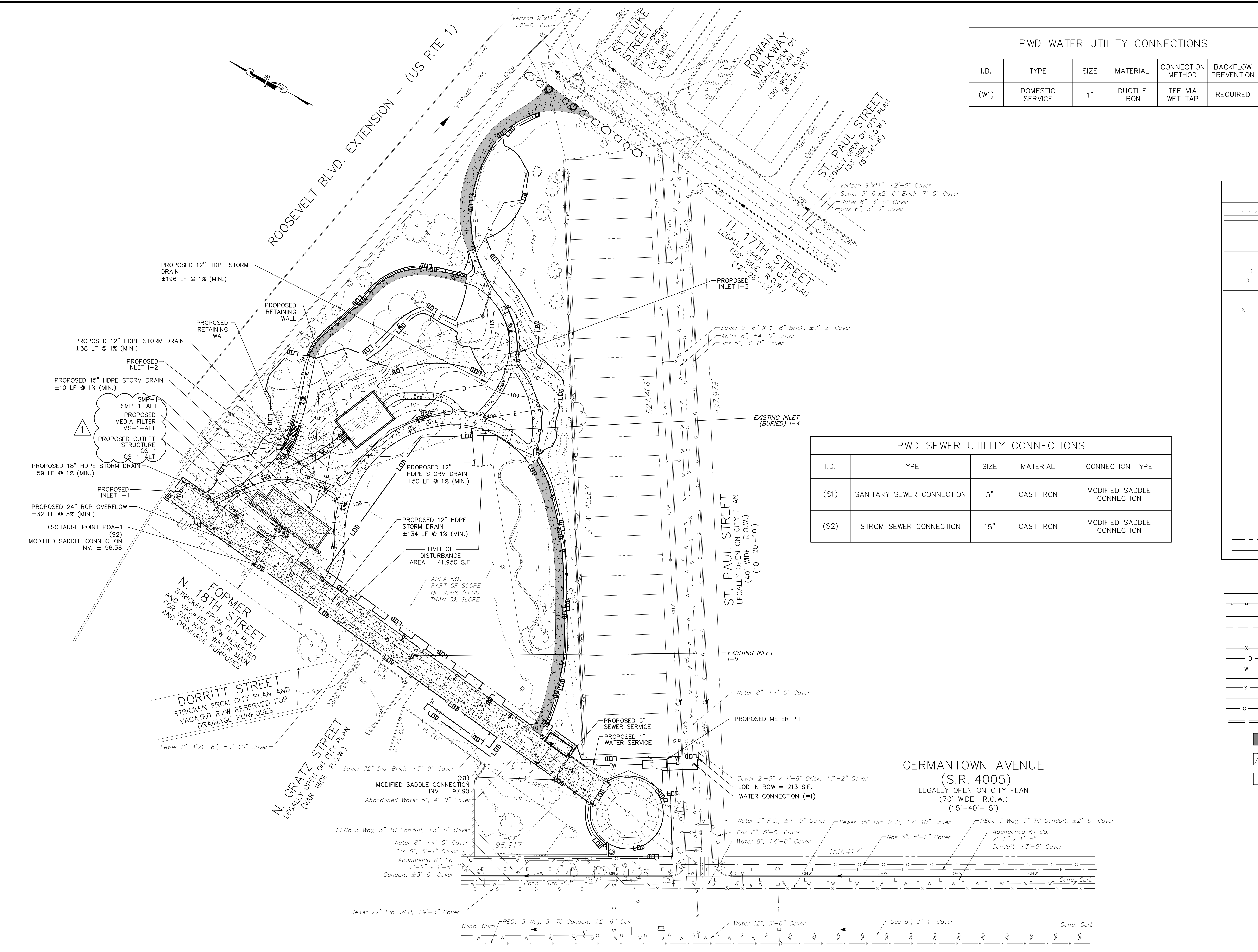
PWD TRACKING No.
FY22-NICE-6841-01

CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1515 ARCH STREET
11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA, PENNSYLVANIA

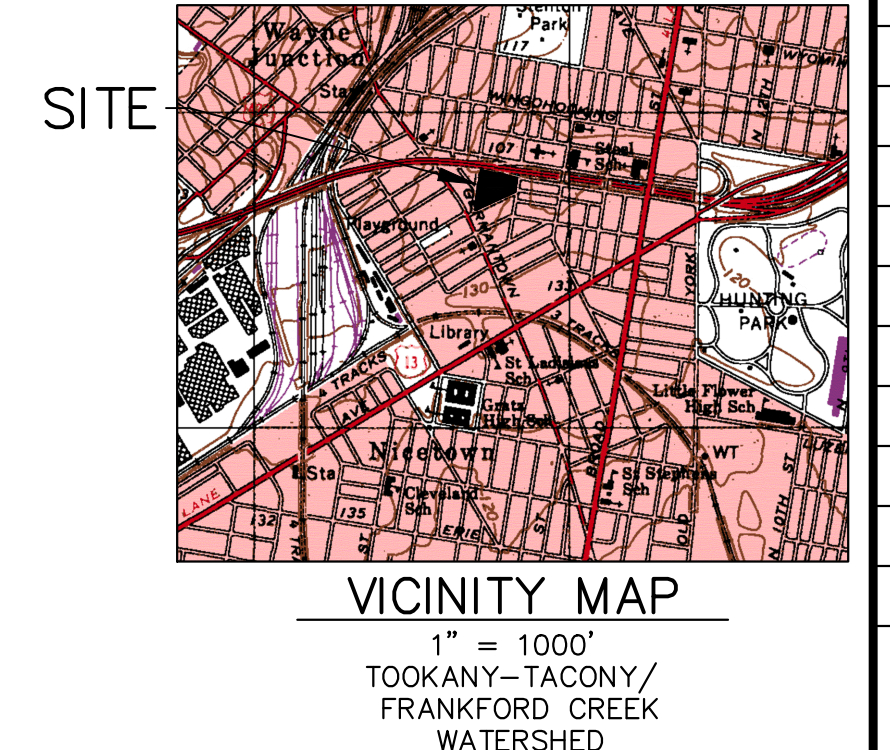
PROJECT TITLE
NICE TOWN PARK
4301 GERMANTOWN AVENUE
PHILADELPHIA, PA 19134

EXISTING CONDITIONS PLAN	
DRAWING TITLE	EXISTING CONDITIONS PLAN
KSE PROJECT NO.	2471-02
DATE	01.19.2024
SCALE	1" = 30'-0"
DRAWN BY	KSE
CHECKED BY	RSB
DRAWING NO.	C-1.0





I.D.	TYPE	SIZE	MATERIAL	CONNECTION METHOD	BACKFLOW PREVENTION
(W1)	DOMESTIC SERVICE	1"	DUCTILE IRON	TEE VIA WET TAP	REQUIRED



	BUILDING
	CONCRETE CURB
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	GAS LINE
	POTABLE WATER
	SANITARY SEWER
	STORM SEWER
	TELECOMMUNICATION CONDUIT
	ELECTRIC CONDUIT
	FENCE
	UNKNOWN MANHOLE
	TELEPHONE MANHOLE
	SANITARY MANHOLE
	STORM MANHOLE
	STORM/SANITARY MANHOLE
	ELECTRIC MANHOLE
	WATER MANHOLE
	WATER VALVE
	GAS VALVE
	UNKNOWN VALVE
	SEWER VENT
	FIRE HYDRANT
	UTILITY POLE/STREET LIGHT
	LIGHT POLE
	TRAFFIC LIGHT
	SIGN
	TREE
	UNDER GROUND STORAGE TANK
	CITY INLET
	GRATE INLET
	OMG INLET
	PROPERTY LINE
	EASEMENT LINE

I.D.	TYPE	SIZE	MATERIAL	CONNECTION TYPE
(S1)	SANITARY SEWER CONNECTION	5"	CAST IRON	MODIFIED SADDLE CONNECTION
(S2)	STROM SEWER CONNECTION	15"	CAST IRON	MODIFIED SADDLE CONNECTION

	GUIDE RAIL
	LIMIT OF DISTURBANCE
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	PROPOSED FENCE
	PROPOSED STORM SEWER LINE
	PROPOSED WATER LINE
	PROPOSED FIRE SERVICE LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED ELECTRICAL CONDUIT
	PROPOSED GAS LINE
	PROPOSED SWALE
	PROPOSED SIDEWALK MILLING AND OVERLAY
	PROPOSED SUBSURFACE STORMWATER MANAGEMENT
	BITUMINOUS PAVEMENT
	PROPOSED MANHOLE
	PROPOSED CLEANOUT
	PROPOSED HIGHWAY GRATE INLET
	PROPOSED YARD DRAIN
	PROPOSED TRENCH DRAIN
	PROPOSED OUTLET STRUCTURE
	PROPOSED FLOW ARROW
	PROPOSED LIGHT POLE
	PROPOSED BOLLARD
	PROPOSED TABLE
	PROPOSED BENCH
	PROPOSED PORTLAND LOO (BATHROOM)
	PROPOSED TRASH RECEPTACLE
	PROPOSED TREE
	PROPOSED SHRUB

- CONSTRUCTION NOTES:**
- UNDERGROUND UTILITIES AS SHOWN ARE TAKEN FROM FIELD EVIDENCE AND PLANS AS PROVIDED BY THE VARIOUS UTILITY AUTHORITIES (PA ONE CALL SERIAL NO. 20212783218). THE ACCURACY REGARDING UTILITY LOCATION AND/OR DEPTH CANNOT BE GUARANTEED AND ADDITIONAL UNDERGROUND UTILITIES NOT DEPICTED ON THE PLAN MAY EXIST. BEFORE EXCAVATIONS ARE BEGUN, THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776 SHALL BE CONTACTED AT LEAST 3-10 DAYS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR EXCAVATION ACTIVITIES IN ACCORDANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS.
 - CONTRACTOR SHALL PROVIDE PROTECTION OF EXISTING UTILITIES THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION.
 - DEVELOPER/ OWNER WILL COMPLY WITH ALL PHILADELPHIA REGULATIONS PERTAINING TO PROPER ABANDONMENT AND/ OR REUSE OF WATER SERVICE LINES AND SEWER LATERALS. PROOF OF ABANDONMENT AND/ OR WATER DISCONTINUANCE MUST BE PROVIDED UPON REQUEST.
 - ALL EXISTING SERVICE UTILITIES SHALL BE CUT AND CAPPED AT LIMITS OF PROPOSED BUILDING.
 - CONTRACTOR TO COMPLETE SEWER CONNECTIONS IN ACCORDANCE WITH THE LATEST VERSION OF THE PHILADELPHIA WATER DEPARTMENT SEWER CONNECTION AND REPAIR MANUAL.

ACT 187
IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 187 AND TO CONTACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR TO START OF CONSTRUCTION.
PENNSYLVANIA ONE CALL: 1-800-242-1776

PHILADELPHIA WATER DEPARTMENT 1101 MARKET STREET, 2ND FLOOR PHILADELPHIA, PENNSYLVANIA (215) 685-6270	VERIZON 900 RACE STREET PHILADELPHIA, PENNSYLVANIA (215) 351-8947
PHILADELPHIA GAS WORKS 800 W. MONTGOMERY AVENUE, 3RD FLOOR PHILADELPHIA, PENNSYLVANIA 19122 (215) 684-6796	COMCAST 1351 S. COLUMBUS BOULEVARD PHILADELPHIA, PENNSYLVANIA 19147 (215) 952-4935
PECO-CONSTRUCTION DEPARTMENT 2301 MARKET STREET PHILADELPHIA, PENNSYLVANIA 19103 (215) 731-3264	

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PHILADELPHIA, PA 19134

OPA ACCOUNT NO.:
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CITY OF PHILADELPHIA

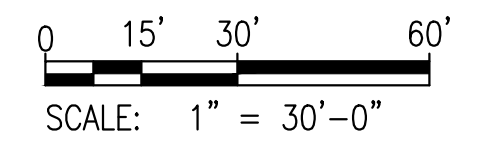
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NICETOWN PARK
1401 JOHN F. KENNEDY BLVD
PHILADELPHIA, PA 19102-1617

APPLICANT:
GROUND RECONSIDERED

ZONING:
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WARD:
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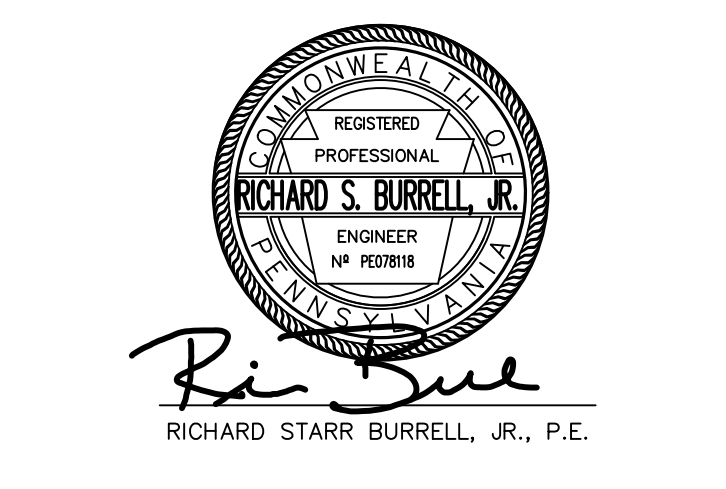
PWD TRACKING No.
FY22-NICE-6841-01



ISSUE	DATE	REVISIONS
A	02.09.2024	REVISED PER PWD PCSM REVIEW COMMENTS
1	02.23.2024	ADDENDUM 1



PROJECT COORDINATOR
Philadelphia Parks & Recreation
and Department of Public Property
1515 Arch Street, 11th Floor
Philadelphia, PA 19102



LANDSCAPE ARCHITECT:
Ground Reconsidered
203 S. Broad Street
Philadelphia PA 19102
www.groundreconsidered.com

CIVIL ENGINEERS:
KS Engineers, P.C.
530 Walnut Street, Suite 460
Philadelphia, PA 19106
www.kseeng.com

ELECTRICAL AND PLUMBING ENGINEERS:
Arora Engineering, Inc.
61 Wilmington-West Chester Pike,
Chadds Ford, PA 19317
www.AroraEngineers.com

STRUCTURAL ENGINEERS:
David Mason and Associates
123 S. Broad Street, Suite 1130
Philadelphia, PA 19109
www.DavidMason.com

CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1515 ARCH STREET
11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA, PENNSYLVANIA

PROJECT TITLE
NICETOWN PARK
4301 GERMANTOWN AVENUE
PHILADELPHIA, PA 19134

DRAWING TITLE
DRAINAGE & UTILITY PLAN

KSE PROJECT NO.
2471-02

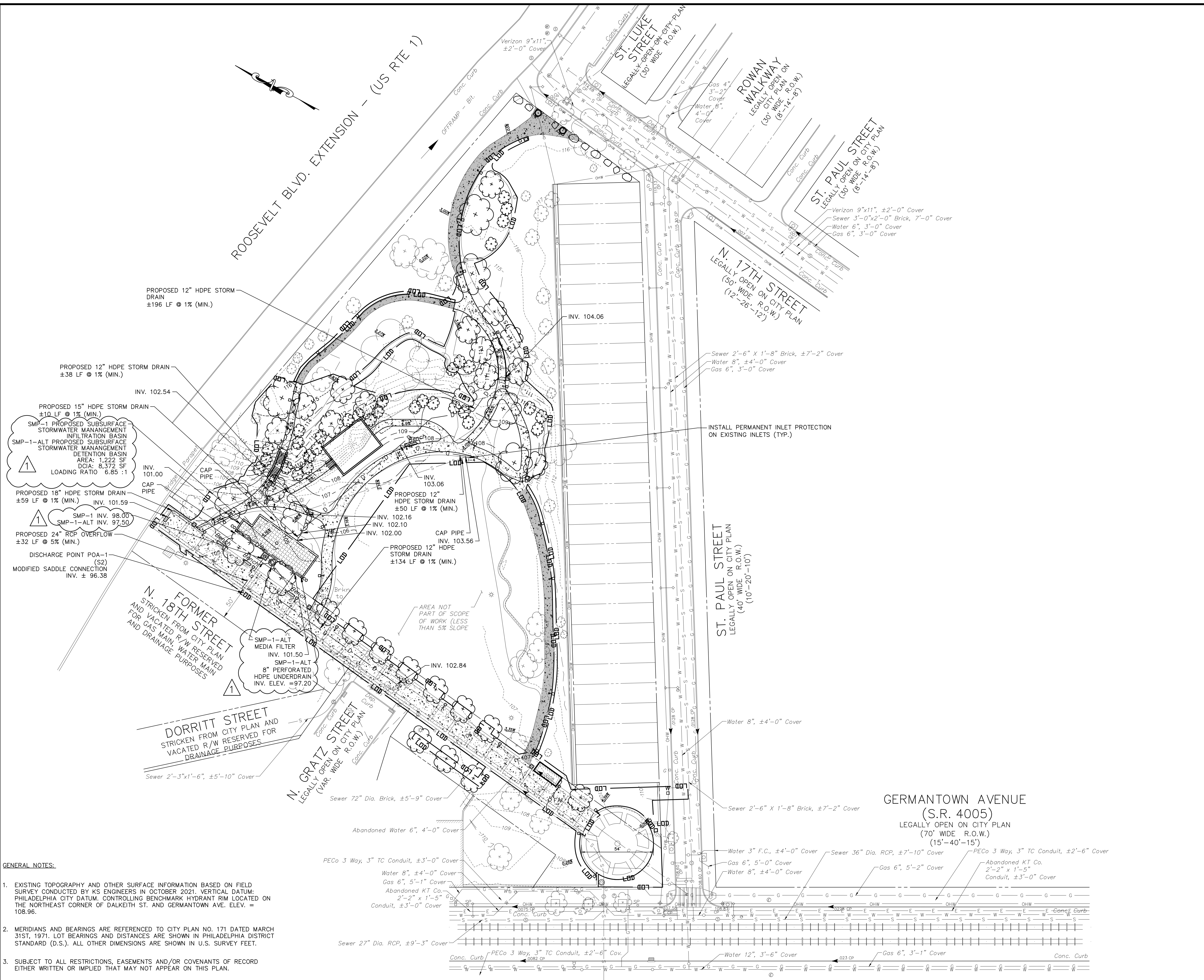
DATE
01.19.2024

SCALE
1" = 30'-0"

DRAWN BY
KSE

CHECKED BY
RSB

DRAWING NO.
C-1.1



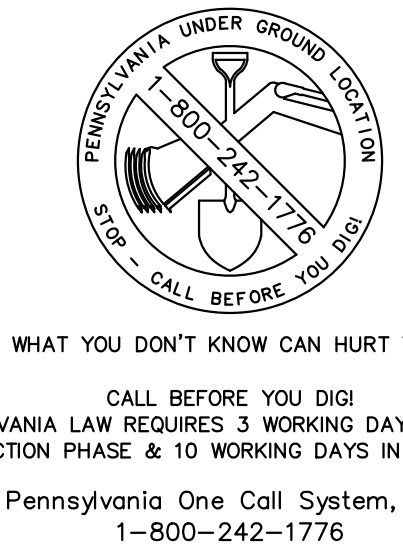
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 - THIS SITE IS LOCATED WITHIN THE SPECIAL PURPOSE PARKS AND OPEN SPACE ACTIVE (SP-PO-A) ZONING DISTRICT.
 - PAVEMENT SUBBASE WILL NOT BE EXPOSED DURING THE MILLING PROCESS OF THE BRICK PAVEMENT PORTION OF THE PROJECT.

PWD TRACKING No.

FY22-NICE-6841-01

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PHILADELPHIA WATER DEPARTMENT 1101 MARKET STREET, 2ND FLOOR PHILADELPHIA, PENNSYLVANIA 19107 (215) 685-6270	VERIZON 900 RACE STREET PHILADELPHIA, PENNSYLVANIA 19107 (215) 351-8947
PHILADELPHIA GAS WORKS 800 W. MONTGOMERY AVENUE, 3RD FLOOR PHILADELPHIA, PENNSYLVANIA 19122 (215) 684-6796	COMCAST 1551 S. COLUMBUS BOULEVARD PHILADELPHIA, PENNSYLVANIA 19147 (215) 952-4935
PECO-CONSTRUCTION DEPARTMENT 2201 MARKET STREET PHILADELPHIA, PENNSYLVANIA 19103 (215) 731-3264	

PROTECT YOURSELF

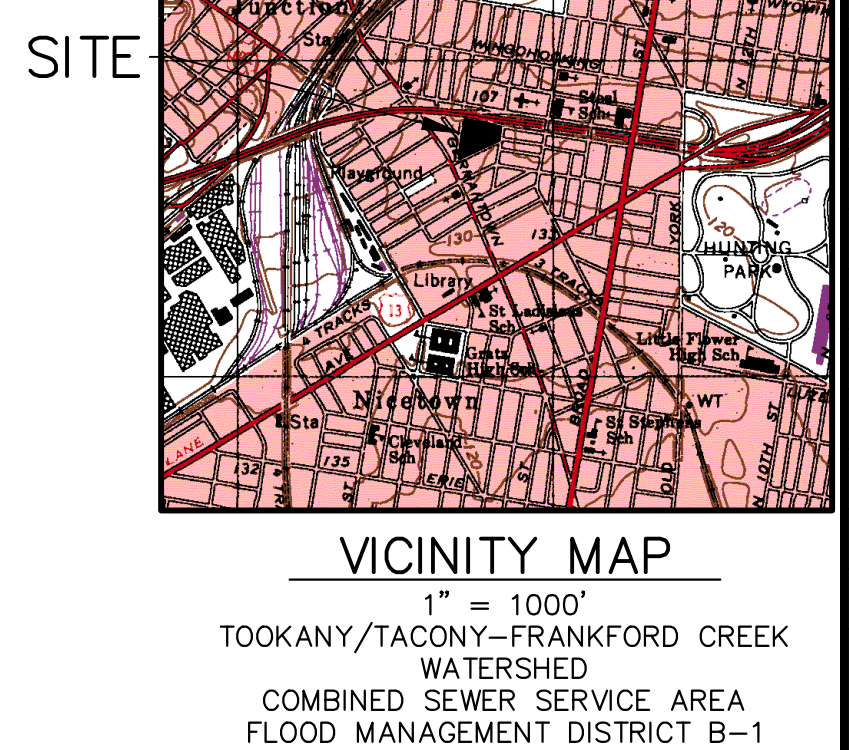


SOIL SYMBOL	SOIL DESCRIPTION	% OF SITE	RUNOFF CLASS	HYDRIC SOIL	SLOPE RANGE	DEPTH
Ub	URBAN-LAND	100.00%	VERY HIGH	NO	0-8%	0"-10"

LIMIT OF DISTURBANCE (LOD) SUMMARY TABLE		
TOTAL SITE AREA	96,462 S.F.	2.21 ACRES
LOD ON SITE	41,737 S.F.	0.958 ACRES
LOD IN R.O.W.	213 S.F.	0.005 ACRES
TOTAL LOD	41,950 S.F.	0.963 ACRES

	TOTAL PROPOSED AREA	PERCENT OF TOTAL LOD
DIRECTLY CONNECTED IMPERVIOUS COVER (DCIA)	8,372 S.F.	19.96%
DISCONNECTED IMPERVIOUS COVER (DIC)	4,586 S.F.	10.93%

	IMPERVIOUS COVER WITHIN LOD
PRE DEVELOPMENT	20,982 S.F.
POST DEVELOPMENT	12,958 S.F.
IMPERVIOUS COVER REDUCTION	38.24%

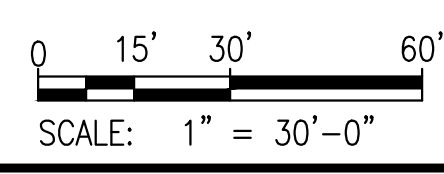


EXISTING LEGEND

[Symbol]	BUILDING
[Symbol]	CONCRETE CURB
[Symbol]	MAJOR CONTOUR LINE
[Symbol]	MINOR CONTOUR LINE
[Symbol]	GAS LINE
[Symbol]	POTABLE WATER
[Symbol]	SANITARY SEWER
[Symbol]	STORM SEWER
[Symbol]	TELECOMMUNICATION CONDUIT
[Symbol]	ELECTRIC CONDUIT
[Symbol]	FENCE
[Symbol]	UNKNOWN MANHOLE
[Symbol]	TELEPHONE MANHOLE
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[Symbol]	ELECTRIC MANHOLE
[Symbol]	WATER MANHOLE
[Symbol]	WATER VALVE
[Symbol]	GAS VALVE
[Symbol]	UNKNOWN VALVE
[Symbol]	SEWER VENT
[Symbol]	FIRE HYDRANT
[Symbol]	UTILITY POLE/STREET LIGHT
[Symbol]	LIGHT POLE
[Symbol]	TRAFFIC LIGHT
[Symbol]	SIGN
[Symbol]	TREE
[Symbol]	UNDER GROUND STORAGE TANK
[Symbol]	CITY INLET
[Symbol]	GRATE INLET
[Symbol]	OMG INLET
[Symbol]	PROPERTY LINE
[Symbol]	EASEMENT LINE

PROPOSED LEGEND

[Symbol]	GUIDE RAIL
[Symbol]	LIMIT OF DISTURBANCE
[Symbol]	MAJOR CONTOUR LINE
[Symbol]	MINOR CONTOUR LINE
[Symbol]	PROPOSED FENCE
[Symbol]	PROPOSED STORM SEWER LINE
[Symbol]	PROPOSED WATER LINE
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[Symbol]	PROPOSED SANITARY SEWER LINE
[Symbol]	PROPOSED ELECTRICAL CONDUIT
[Symbol]	PROPOSED GAS LINE
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[Symbol]	PROPOSED SIDEWALK MILLING AND OVERLAY
[Symbol]	PROPOSED SUBSURFACE STORMWATER MANAGEMENT
[Symbol]	BITUMINOUS PAVEMENT
[Symbol]	PROPOSED MANHOLE
[Symbol]	PROPOSED CLEANOUT
[Symbol]	PROPOSED HIGHWAY GRATE INLET
[Symbol]	PROPOSED YARD DRAIN
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[Symbol]	PROPOSED OUTLET STRUCTURE
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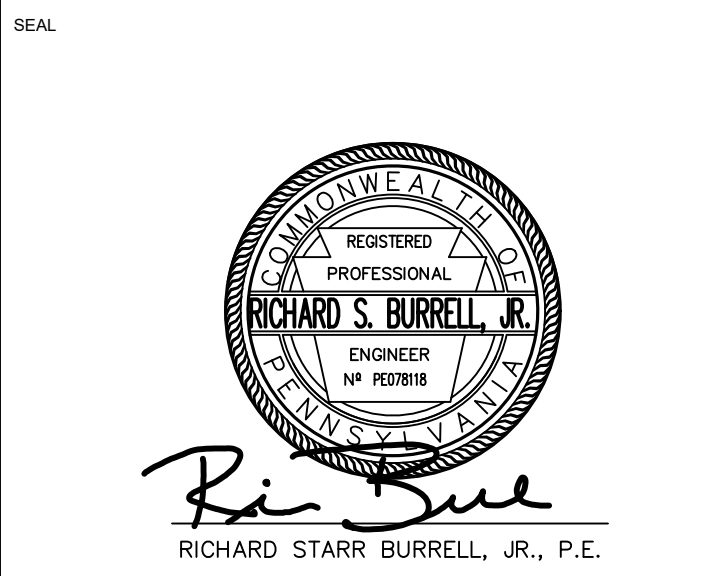


REVISIONS

ISSUE	DATE	REVISIONS
1	02.08.2024	REVISED PER PWD PCSM REVIEW COMMENTS
2	02.23.2024	ADDENDUM 1



PROJECT COORDINATOR
Philadelphia Parks & Recreation
and Department of Public Property
1515 Arch Street, 11th Floor
Philadelphia, PA 19102



LANDSCAPE ARCHITECT:
Ground Reconsidered
203 S. Broad Street
Philadelphia PA 19102
www.groundreconsidered.com

CIVIL ENGINEERS:
KS Engineers, P.C.
530 Walnut Street, Suite 460
Philadelphia, PA 19106
www.ksenj.com

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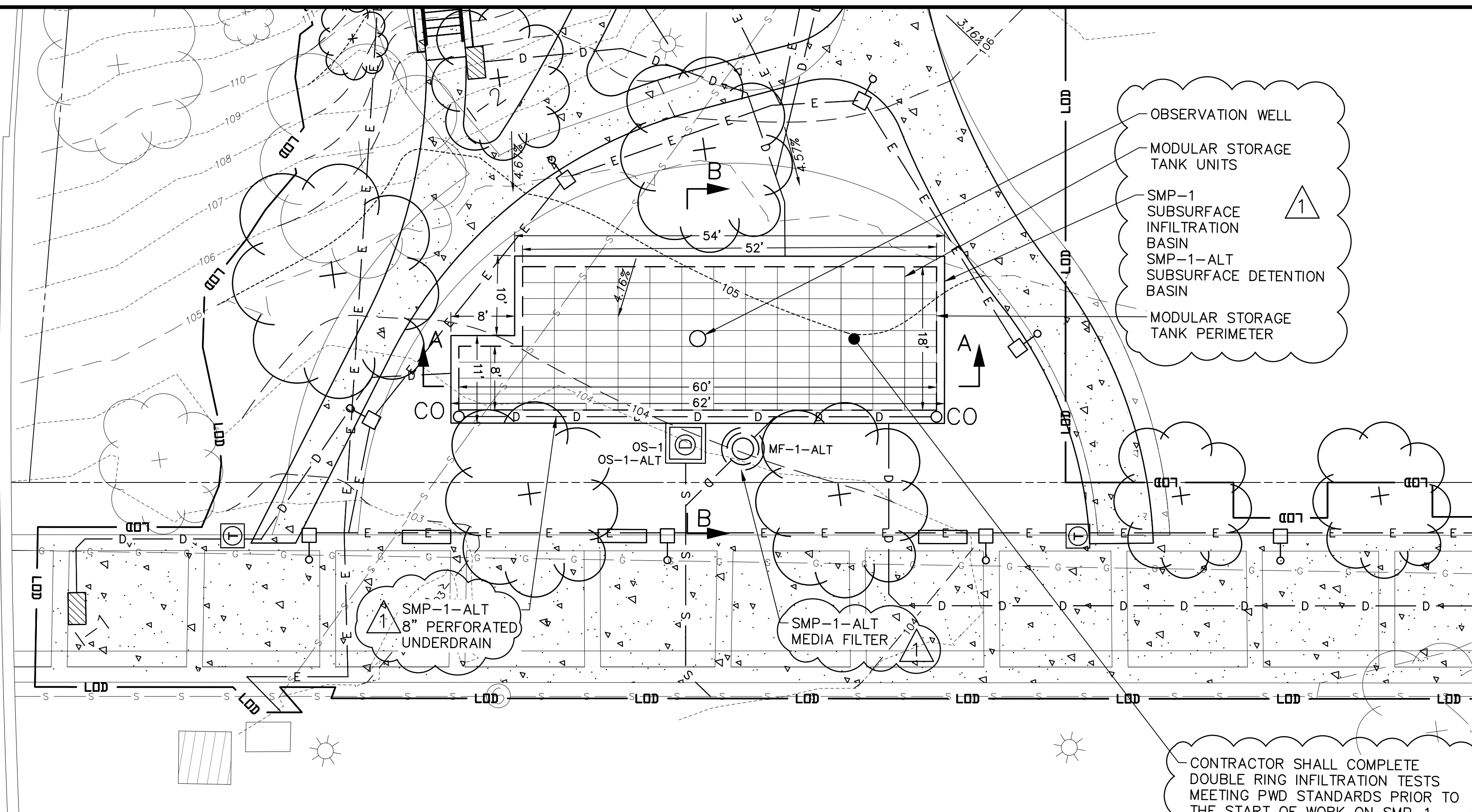
STRUCTURAL ENGINEERS:
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CITY OF PHILADELPHIA
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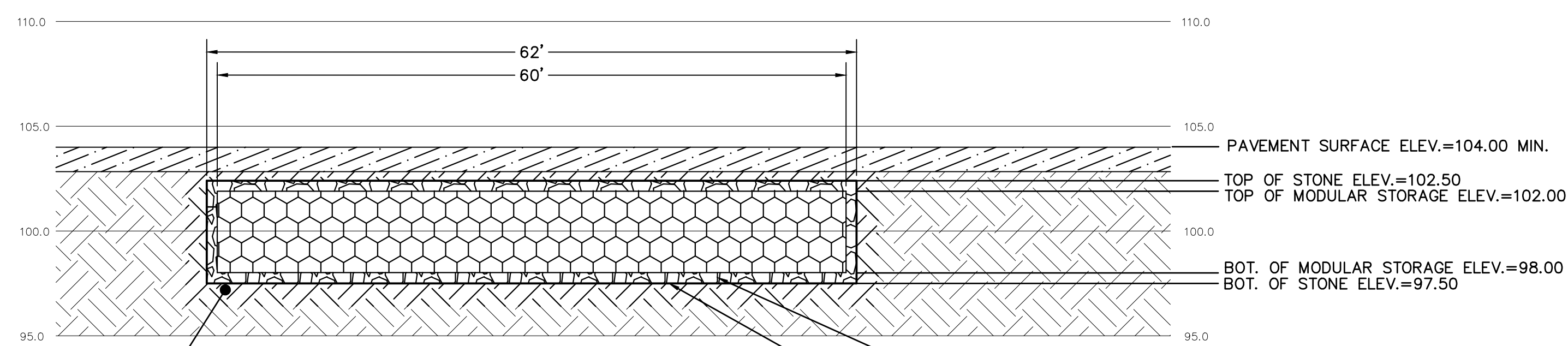
PROJECT TITLE
NICETOWN PARK
4301 GERMANTOWN AVENUE
PHILADELPHIA, PA 19134

DRAWING TITLE
STORMWATER MANAGEMENT PLAN

KSE PROJECT NO. 2471-02	DRAWING NO. C-2.1
DATE 01.19.2024	SCALE 1" = 30'-0"
DRAWN BY KSE	CHECKED BY RSB
NOTE: ALL DIMENSIONS AND COORDINATE DATA IS BASED ON THE PHILADELPHIA CITY DATUM.	



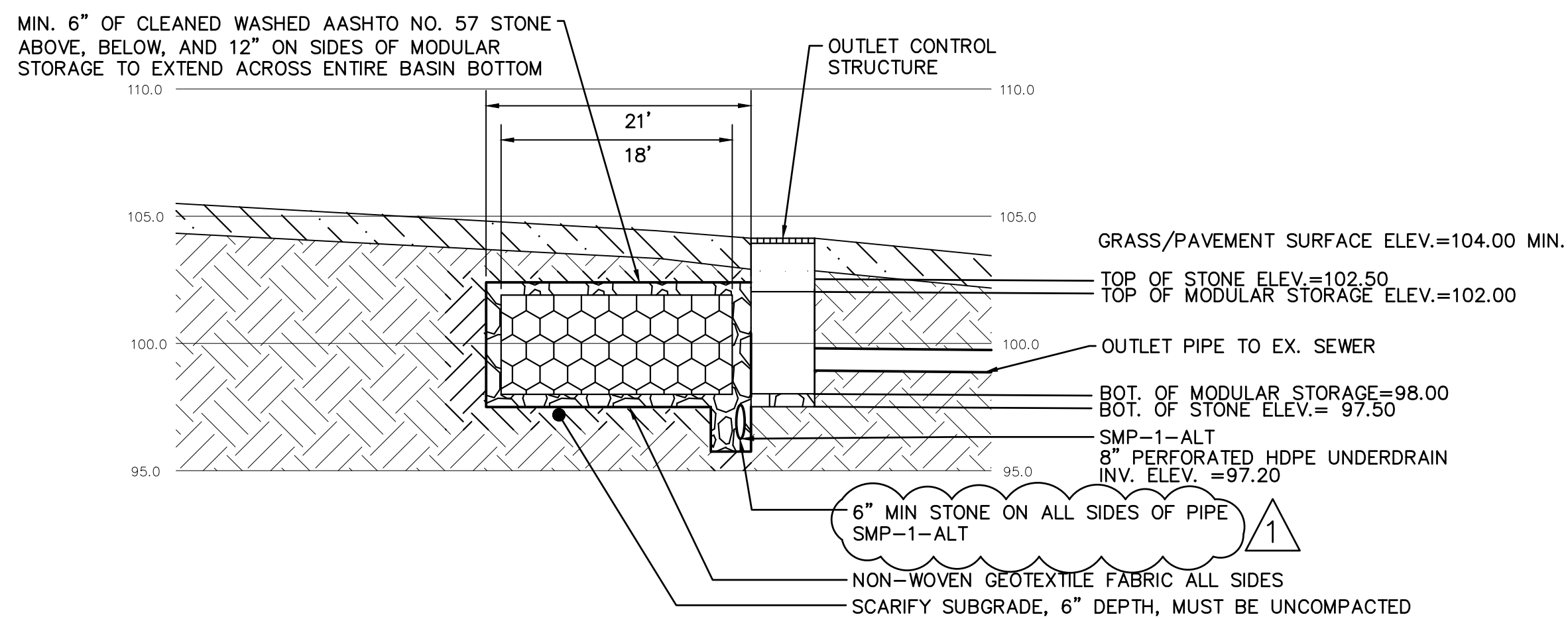
FORMER N. 18TH STREET
STRICKEN FROM CITY PLAN AND VACATED R/W RESERVED FOR GAS MAIN, WATER MAIN AND DRAINAGE PURPOSES



SECTION VIEW - A-A
SCALE: HOR. 1"=10'
VER. 1"=5'

SCARIFY SUBGRADE, 6" DEPTH, MUST BE UNCOMPACTED

MIN. 6" OF CLEANED WASHED AASHTO NO. 57 STONE ABOVE, BELOW, AND 12" ON SIDES OF MODULAR STORAGE TO EXTEND ACROSS ENTIRE BASIN BOTTOM
NON-WOVEN GEOTEXTILE FABRIC ALL SIDES



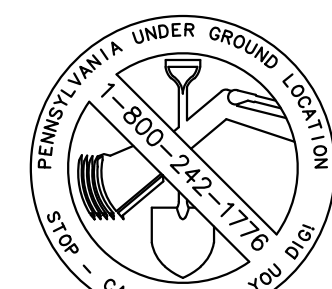
SECTION VIEW - B-B
SCALE: HOR. 1"=10'
VER. 1"=5'

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PHILADELPHIA GAS WORKS 800 W. MONTGOMERY AVENUE, 3RD FLOOR PHILADELPHIA, PENNSYLVANIA 19122 (215) 684-6796	COMCAST 1351 S. COLLINGSWOOD BOULEVARD PHILADELPHIA, PENNSYLVANIA 19147 (215) 952-4935
PECO-CONSTRUCTION DEPARTMENT 2307 MARKET STREET PHILADELPHIA, PENNSYLVANIA 19103 (215) 731-3264	

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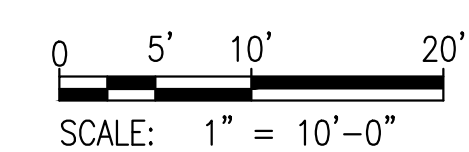
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APPLICANT:
GROUND RECONSIDERED

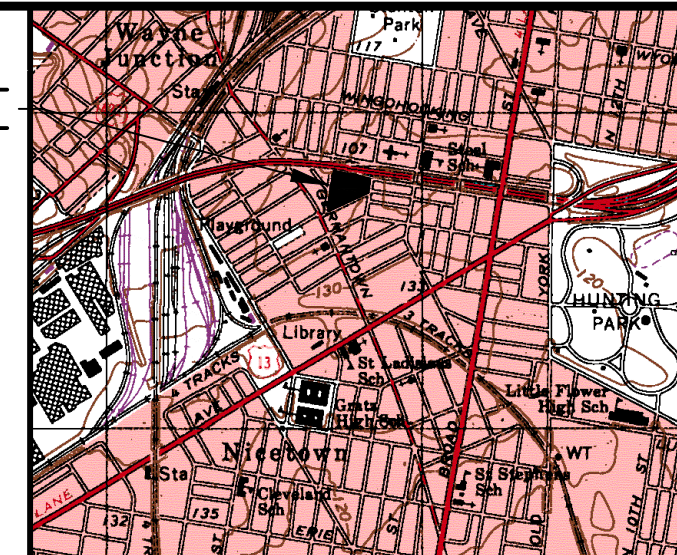
ZONING:
SPPOA-RECREATION

WARD:
#13

PWD TRACKING No.
FY22-NICE-6841-01



SITE

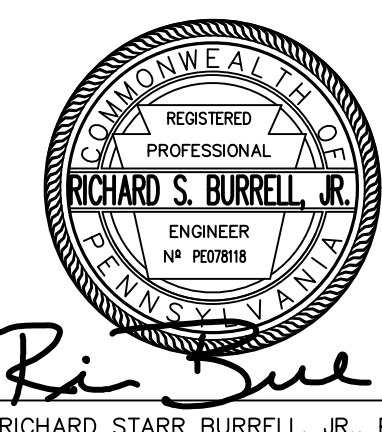


VICINITY MAP

1" = 1000'
TOOKANY/TACONY-FRANKFORD CREEK WATERSHED
COMBINED SEWER SERVICE AREA
FLOOD MANAGEMENT DISTRICT B-1



PROJECT COORDINATOR
Philadelphia Parks & Recreation
and Department of Public Property
1515 Arch Street, 11th Floor
Philadelphia, PA 19102



RICHARD STARR BURRELL, JR., P.E.

EXISTING LEGEND

	BUILDING
	CONCRETE CURB
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	GAS LINE
	POTABLE WATER
	SANITARY SEWER
	STORM SEWER
	TELECOMMUNICATION CONDUIT
	ELECTRIC CONDUIT
	FENCE
	UNKNOWN MANHOLE
	TELEPHONE MANHOLE
	SANITARY MANHOLE
	STORM MANHOLE
	STORM/SANITARY MANHOLE
	ELECTRIC MANHOLE
	WATER MANHOLE
	WATER VALVE
	GAS VALVE
	UNKNOWN VALVE
	SEWER VENT
	FIRE HYDRANT
	UTILITY POLE/STREET LIGHT
	LIGHT POLE
	TRAFFIC LIGHT
	SIGN
	TREE
	UNDER GROUND STORAGE TANK
	CITY INLET
	GRATE INLET
	OMG INLET
	PROPERTY LINE
	EASEMENT LINE

PROPOSED LEGEND

	GUIDE RAIL
	LIMIT OF DISTURBANCE
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	PROPOSED FENCE
	PROPOSED STORM SEWER LINE
	PROPOSED WATER LINE
	PROPOSED FIRE SERVICE LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED ELECTRICAL CONDUIT
	PROPOSED GAS LINE
	PROPOSED SWALE
	PROPOSED SIDEWALK MILLING AND OVERLAY
	PROPOSED SUBSURFACE STORMWATER MANAGEMENT
	BITUMINOUS PAVEMENT
	PROPOSED MANHOLE
	PROPOSED CLEANOUT
	PROPOSED HIGHWAY GRATE INLET
	PROPOSED YARD DRAIN
	PROPOSED TRENCH DRAIN
	PROPOSED OUTLET STRUCTURE
	PROPOSED FLOW ARROW
	PROPOSED LIGHT POLE
	PROPOSED BOLLARD
	PROPOSED TABLE
	PROPOSED BENCH
	PROPOSED PORTLAND LOO (BATHROOM)
	PROPOSED TRASH RECEPTACLE
	PROPOSED TREE
	PROPOSED SHRUB

SPACE FOR CONSULTANT RECOGNITION

LANDSCAPE ARCHITECT:
Ground Reconsidered
203 S. Broad Street
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CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1515 ARCH STREET
11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA, PENNSYLVANIA

PROJECT TITLE
NICETOWN PARK
4301 GERMANTOWN AVENUE
PHILADELPHIA, PA 19134

DRAWING TITLE
STORMWATER MANAGEMENT PLAN

KSE PROJECT NO.
2471-02

DATE
01.19.2024

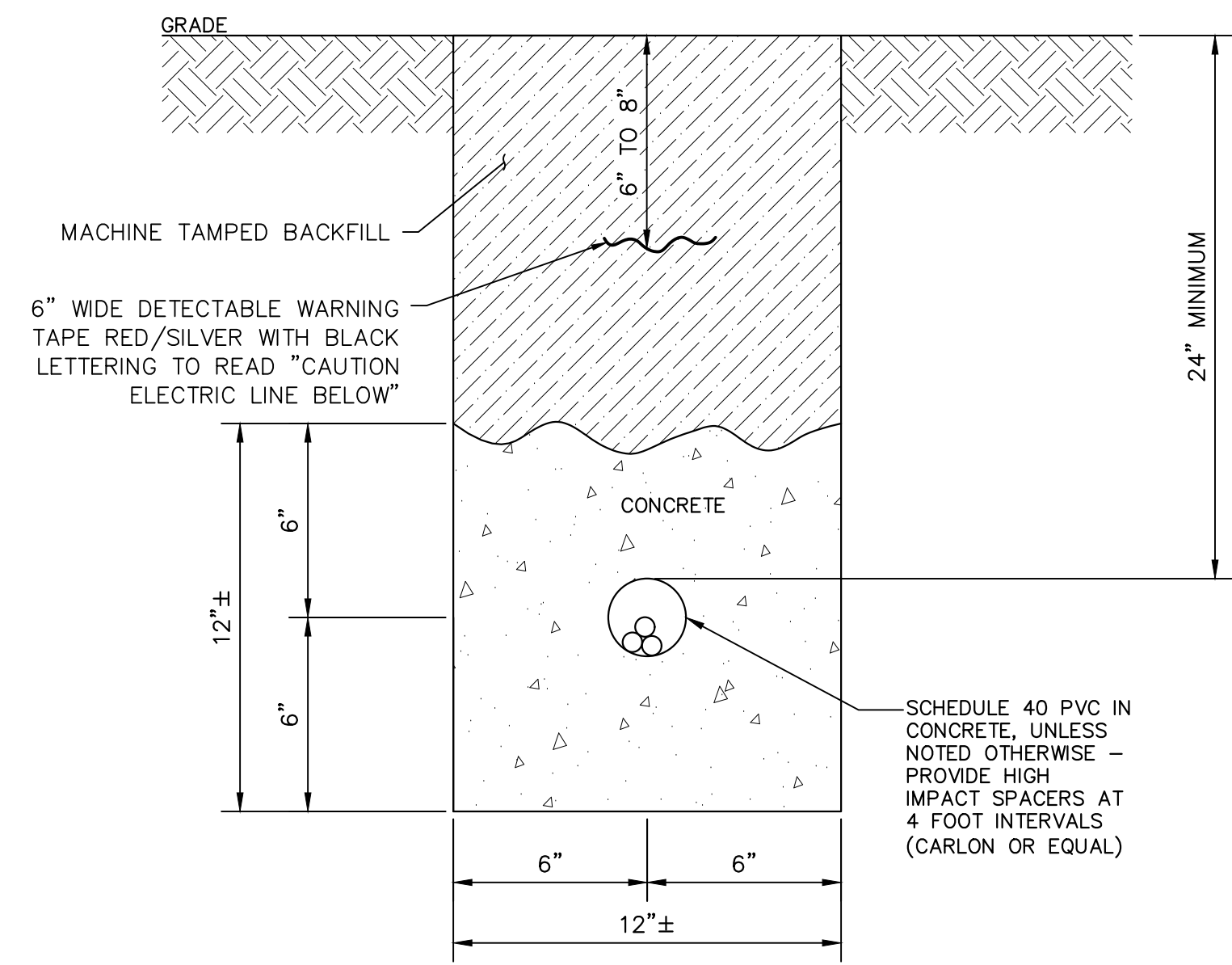
SCALE
1" = 30'-0"

DRAWN BY
KSE

CHECKED BY
RSB

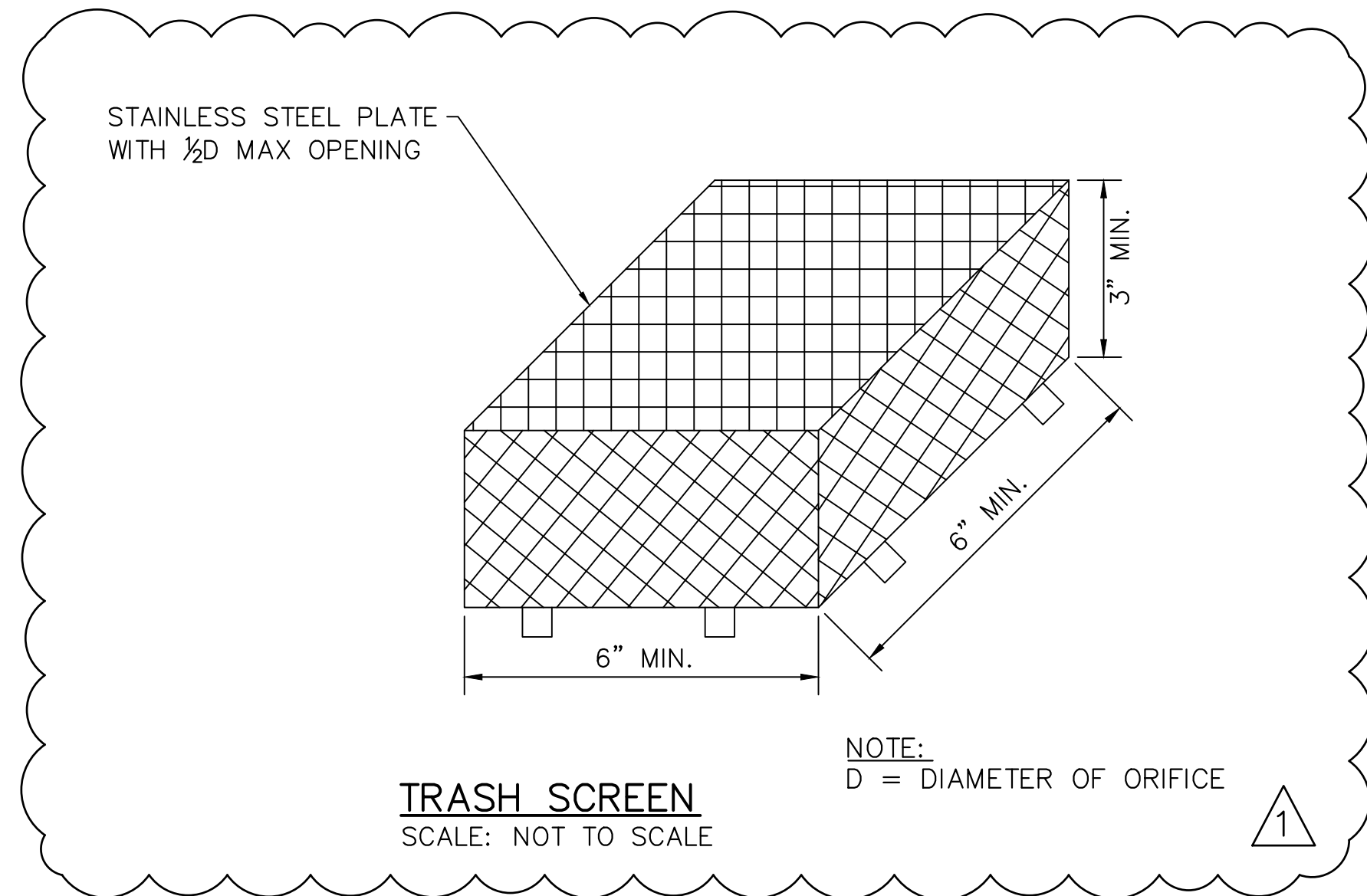
DRAWING NO.
C-2.2

NOTE: ALL DIMENSIONS ARE CONSIDERED UNLESS OTHERWISE SPECIFIED. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.



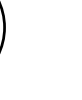
- NOTES:**
- CONCRETE TO HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI & HAVE AN AIR ENTRAINING ADMIXTURE. AIR CONTENT TO BE 6% + OR - 1%.
 - EC SHALL TAKE EXTREME CARE IN EXCAVATING AREA. HAND-DIG IF NECESSARY. MODIFY/RE-ROUTE DUCT BANK AS REQUIRED TO MINIMIZE CONFLICT WITH EXISTING UTILITIES.
 - COORDINATE ALL CONDUIT ROUTING WITH EXISTING CONDITIONS AND SITE WORK.

DUCT BANK DETAIL
SCALE: N.T.S.



TRASH SCREEN
SCALE: NOT TO SCALE

NOTE:
D = DIAMETER OF ORIFICE



1

NOT TO SCALE

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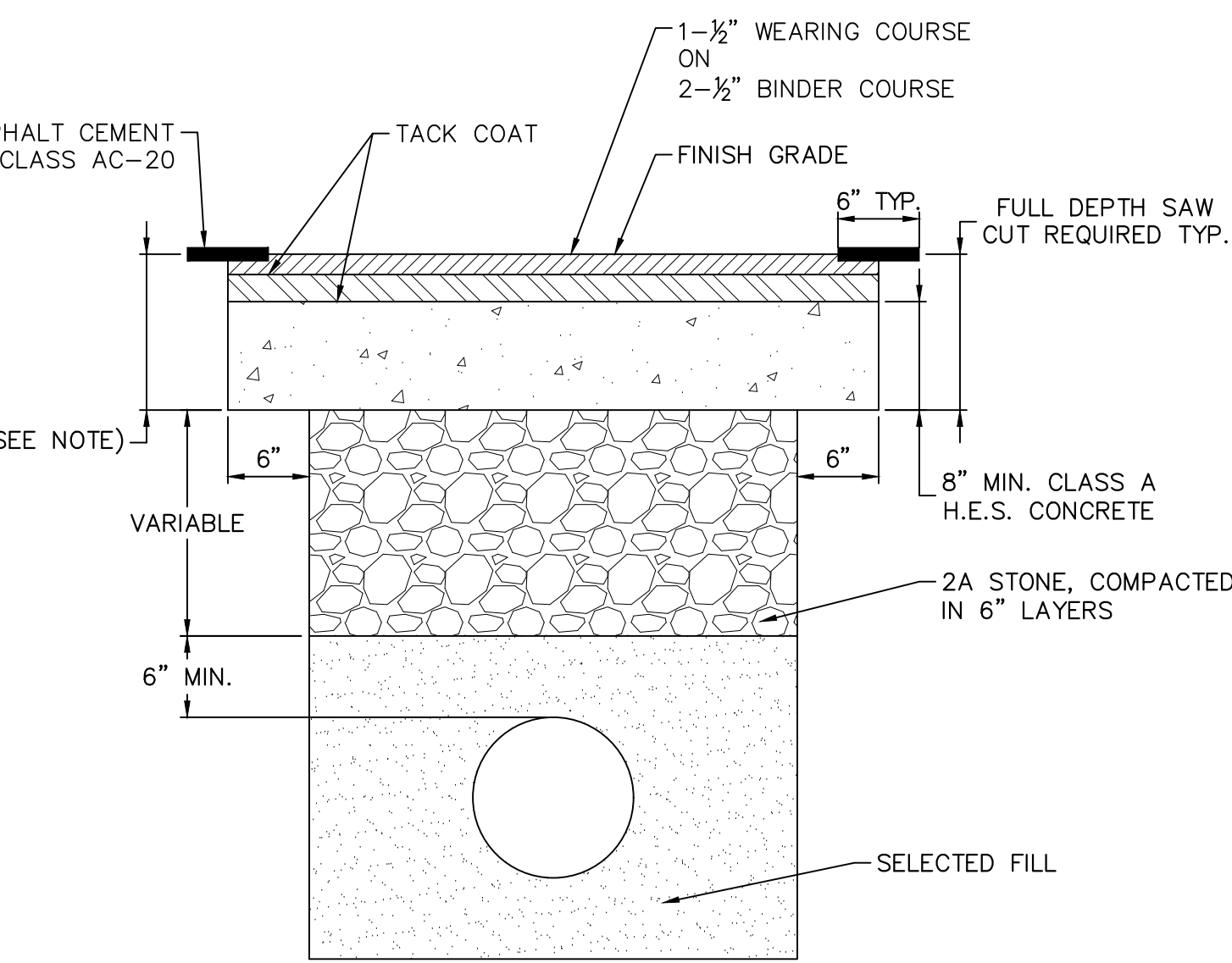
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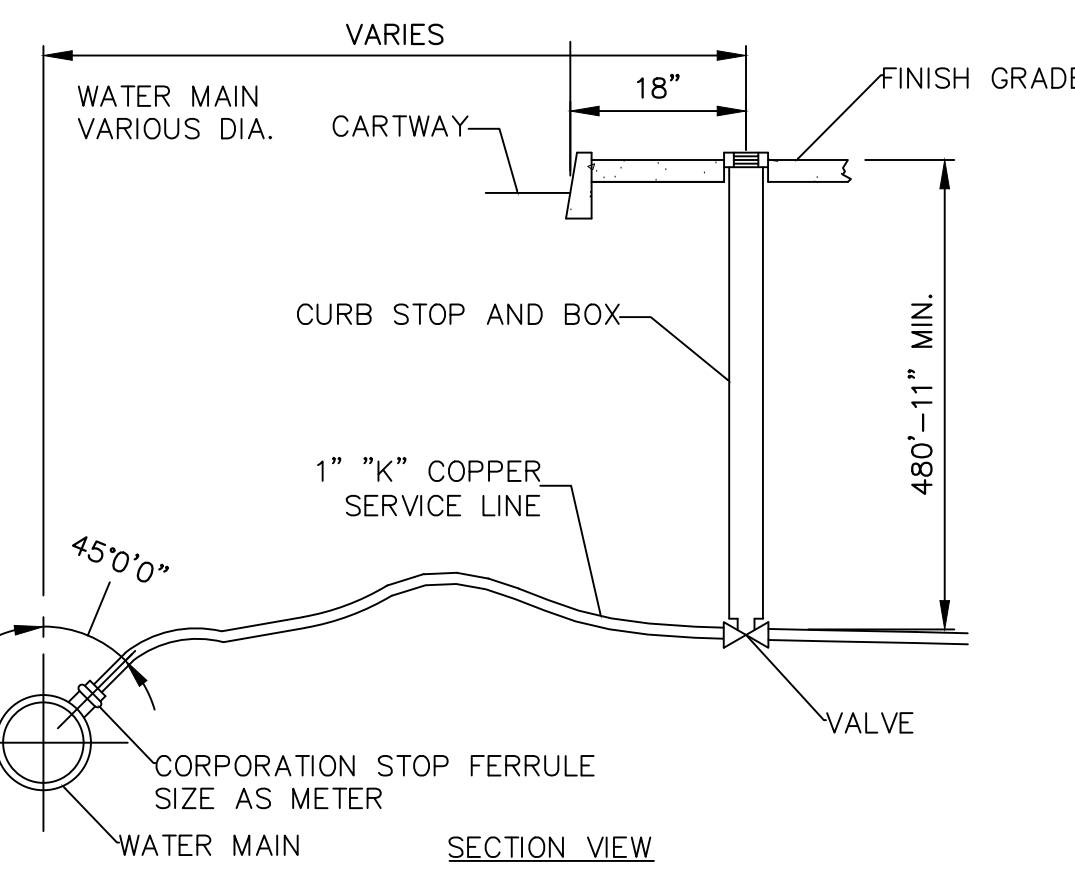
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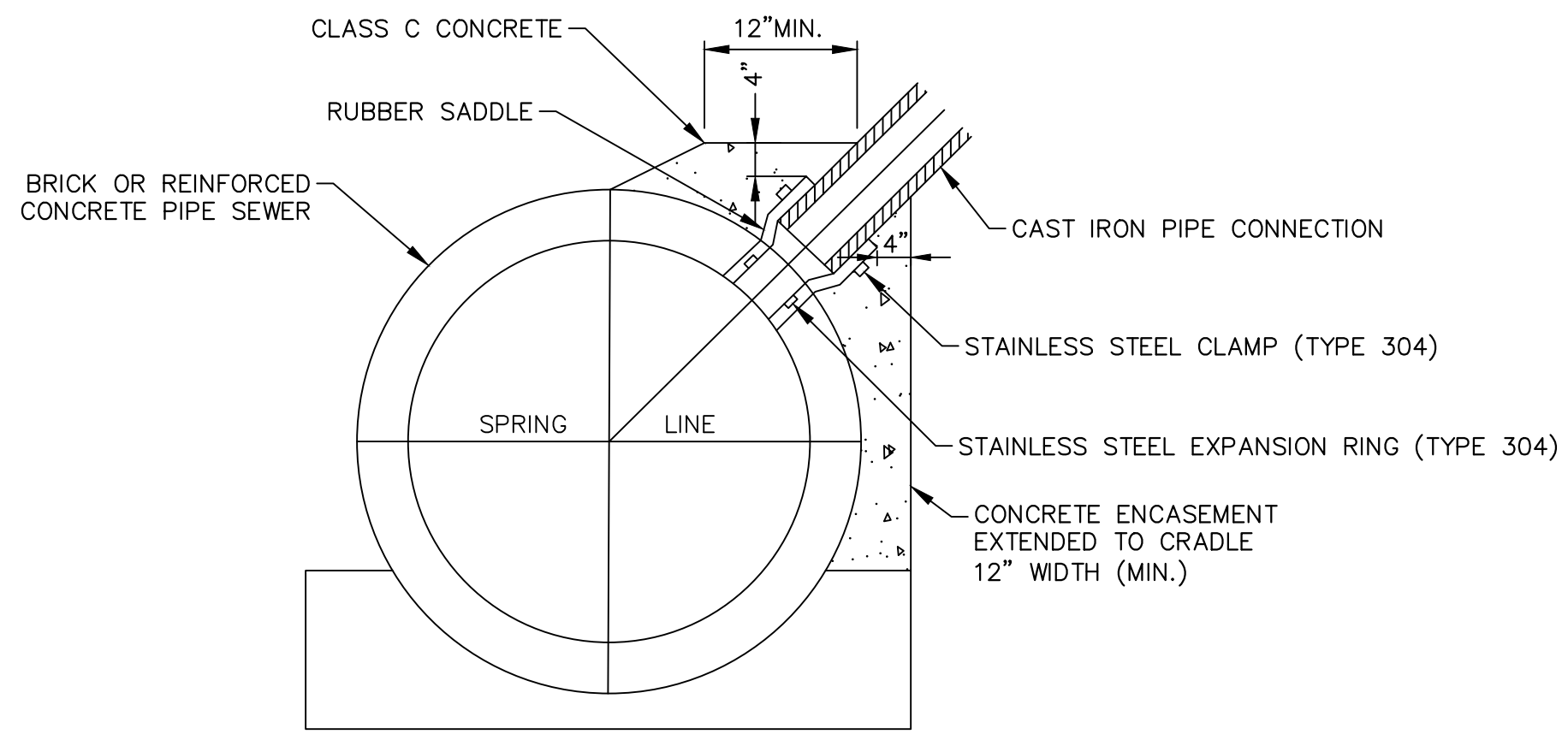
- NOTE:**
- MINIMUM COVER: NO STRUCTURE SHALL BE PLACED LESS THAN 24-INCHES BELOW THE CARTWAY OR 15-INCHES BELOW THE FOOTWAY.
 - REPLACE ALL DISTURBED PAVEMENT MARKINGS WITH THERMOPLASTIC TAPE.
 - PAVEMENT MARKINGS MUST BE RESTORED WITHIN 7 DAYS OF TRENCH RESTORATION.
 - ALL RESTORATION BY PERMITTEE TO BE IN ACCORDANCE WITH THE LATEST STREETS DEPARTMENT STANDARDS.

PERMANENT TRENCH RESTORATION FOR UTILITY CONNECTIONS
NOT TO SCALE



- NOTES:**
- STREET CONTRACTOR SHALL STUB UP LATERAL AT RIGHT-OF-WAY LINE.
 - COMPLY WITH THE CITY PHILADELPHIA STANDARDS.

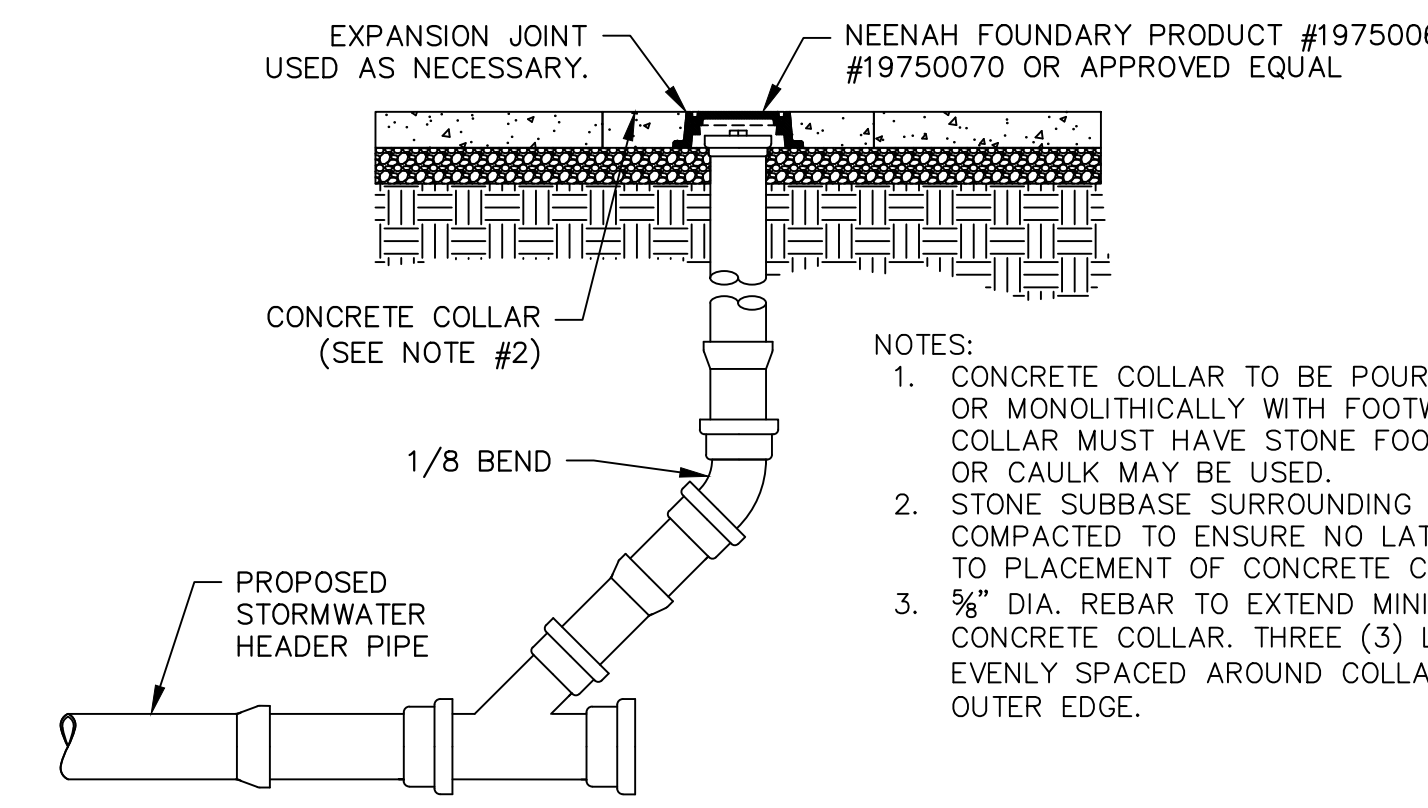
WATER/FIRE SERVICE CONNECTION



SADDLE CONNECTION INSTALLATION PROCEDURE:

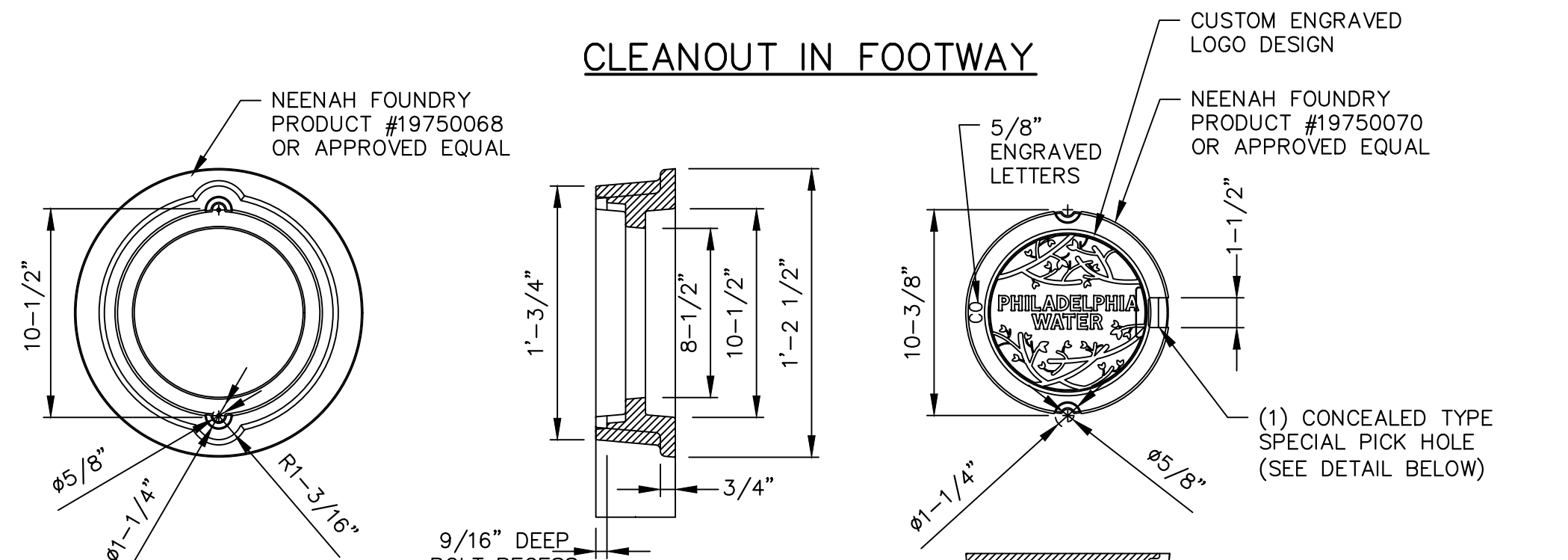
- THE CONNECTIONS SHOULD NOT JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING SEWER LINES NOR JEOPARDIZE OR COMPROMISE THE OPERATION AND FLOW OF THE EXISTING SEWER LINES.
- EXCAVATE SAFELY TO EXPOSE THE EXISTING SEWER PIPE WITHOUT DAMAGING IT.
- EXCAVATE A DITCH WIDE ENOUGH TO ACCOMMODATE CORING THE EXISTING SEWER PIPE AND CONCRETING THE CONNECTION JOINT TO 1-FOOT PAST THE EDGE OF THE CORED OPENING IN ALL DIRECTIONS.
- CONTRACTORS SHOULD PERFORM THE CONNECTION IN A SAFE MANNER AND PER OSHA REGULATIONS.
- SHORING SHALL BE INSTALLED IN DITCHES AND TRENCHES AS PER OSHA REGULATIONS OR AS REGULATED BY PWD. VIOLATION OF THIS PROVISION WILL RESULT IN A STOP WORK ORDER AND/OR PENALTIES PRESCRIBED BY LAW. (REFER TO PHILADELPHIA PLUMBING CODE 2004 SECTION P- 1503.2 SHORING).
- CORE DRILL A HOLE NOT MORE THAN 1-INCH LARGER THAN THE OD OF THE CONNECTING PIPE OR SADDLE.
- PREVENT ANY PIECES OF CORED SECTION OR DEBRIS TO FALL INTO THE SEWER.
- REMOVE ALL THE BROKEN PIECES OR DEBRIS THAT FALL INTO THE SEWER.
- CAULK THE INTERIOR SURFACE OF THE CORED AREA WITH NON-SHRINK OR EPOXY MORTAR.
- CUT A SADDLE LONG ENOUGH ON THE BELL-END SIDE SO THAT WHEN INSERTED INTO THE CORED HOLE, IT WILL BE FLUSH WITH THE INSIDE FACE OF THE SEWER WALL OR WITH NOT MORE THAN 1-INCH PROTRUSION INTO THE SEWER PIPE AND ALSO THE BELL END WILL REST ON THE SEWER PIPE.
- FILL THE ANNULAR SPACE BETWEEN THE SADDLE AND THE SEWER PIPE WITH APPROVED CAULK OR NON-SHRINK MORTAR.
- SECURE THE SADDLE.
- CONNECT THE FIRST PIECE OF THE LATERAL PIPE TO THE SADDLE.
- FORM THE OUTSIDE OF THE CONNECTION JOINT SO THAT A 12-INCH THICK CONCRETE COLLAR COULD BE PLACED AROUND THE CONNECTION JOINT.
- PLACE A MINIMUM OF 3,000 PSI CONCRETE COLLAR EXTENDING 12 INCH AROUND THE JOINT.
- ALLOW AT LEAST 24 HOURS FOR THE CONCRETE TO HARDEN BEFORE BACKFILLING.
- ANY OTHER PIPELINE EXPOSED AND UNDERMINED DURING THIS OPERATION MUST BE SUPPORTED IMMEDIATELY AND BACKFILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM) AFTER THE COMPLETION OF THE CONNECTION.

SEWER LATERAL CONNECTION DETAIL TO CIRCULAR RC PIPE SEWERS
SCALE: N.T.S.

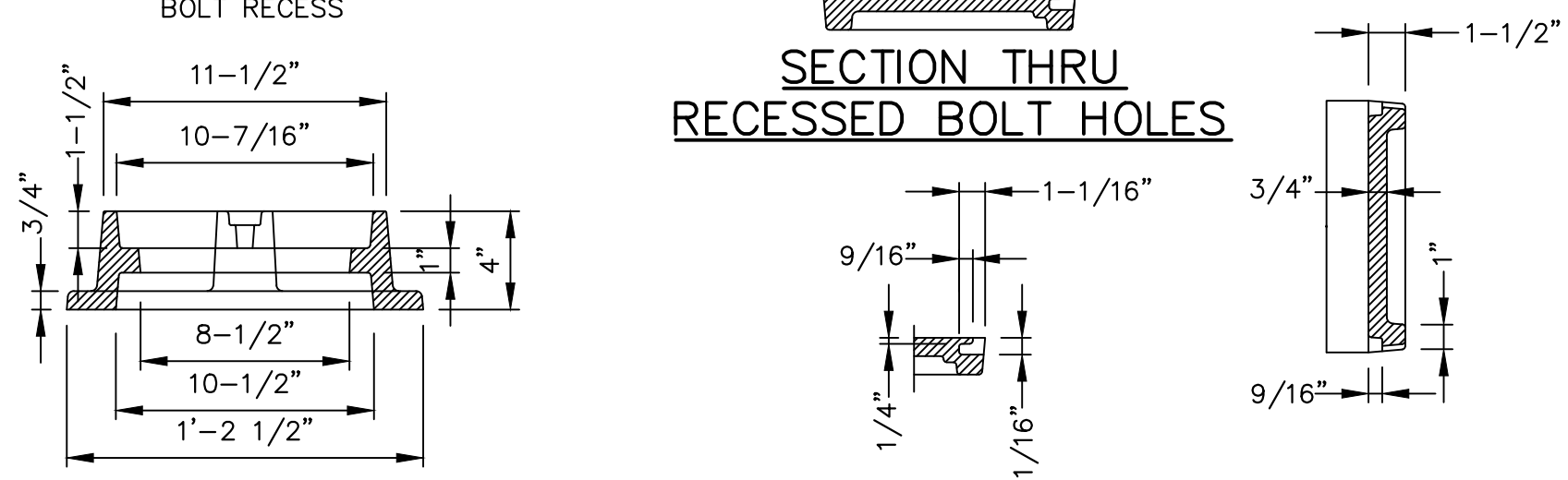


- NOTES:**
- CONCRETE COLLAR TO BE POURED SINGULARLY IN GRASS OR MONOLITHICALLY WITH FOOTWAY. THE CONCRETE COLLAR MUST HAVE STONE FOOTING. EXPANSION JOINT OR CAULK MAY BE USED.
 - STONE SUBBASE SURROUNDING CLEANOUT RISER MUST BE COMPACTED TO ENSURE NO LATERAL MOVEMENT PRIOR TO PLACEMENT OF CONCRETE COLLAR.
 - 3/4\"/>

CLEANOUT IN FOOTWAY



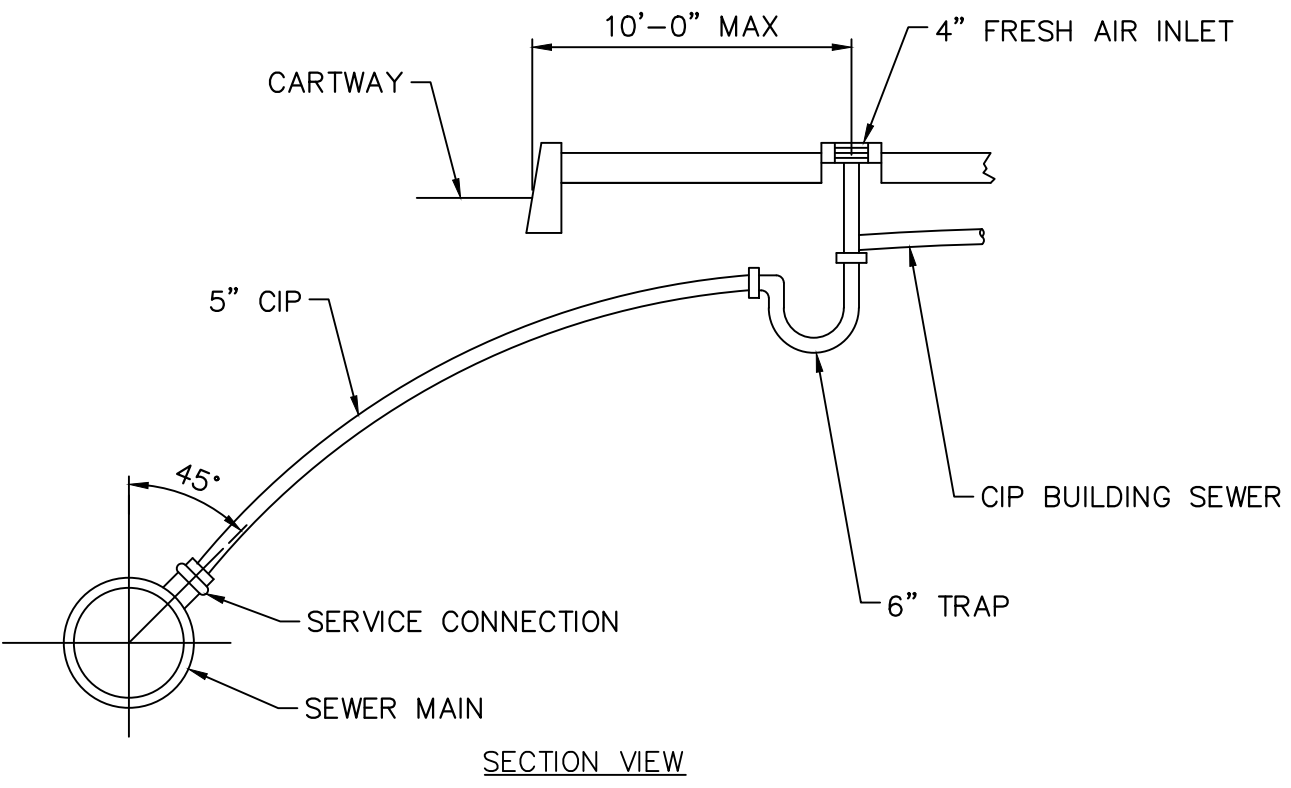
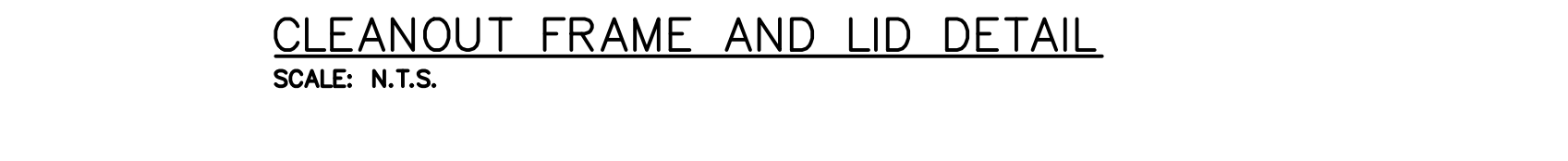
SECTION THRU RECESSED BOLT HOLES



CONCEALED PICKHOLE DETAIL

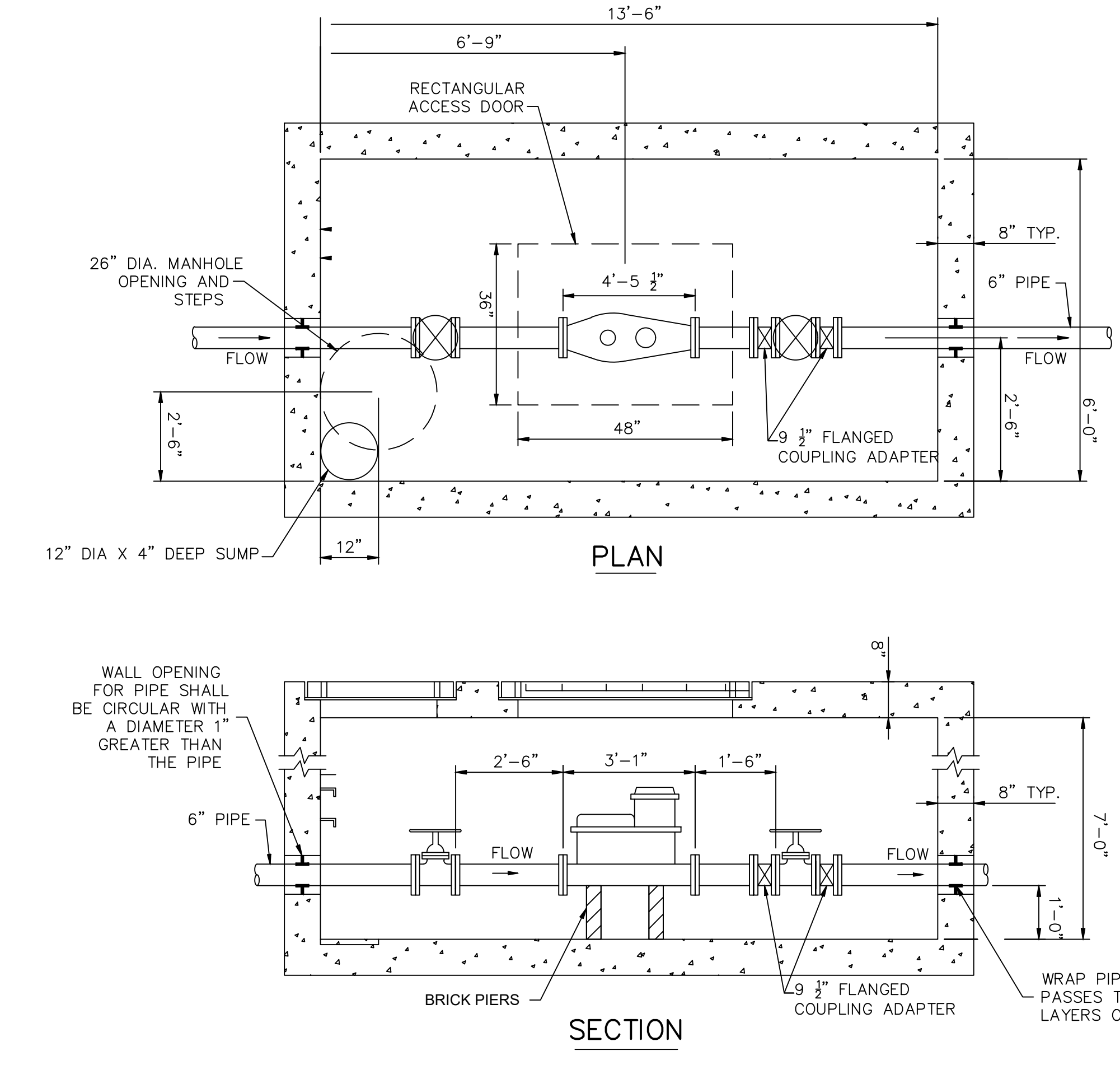


CLEANOUT FRAME AND LID DETAIL
SCALE: N.T.S.



- NOTE:**
COMPLY WITH THE CITY PHILADELPHIA STANDARDS.

SEWER SERVICE DETAIL
NOT TO SCALE



- WATER METER NOTES:**
- WATER METER SHALL BE CONNECTED TO THE SERVICE PIPE WITH FLANGES.
 - SERVICE PIPE SHALL BE DUCTILE IRON FLANGED PIPE IN ACCORDANCE WITH ANSI/AWWA C115/A21.15.
 - FLANGES SHALL BE PRODUCES OF BRONZE AND SHALL BE FACED, DRILLED AND TAPPED IN CONFORMANCE WITH ANSI B.2.1. FLANGE DIMENSION SHALL CONFORM TO AWWA C700.
 - FLANGED FITTINGS SHALL BE PRODUCED OF DUCTILE IRON AND CONFORM TO THE APPLICABLE REQUIREMENTS FOR DUCTILE IRON FITTINGS SPECIFIED IN ANSI/AWWA C110/A21.10.
 - FLANGES OF BOTH DUCTILE IRON FLANGED PIPE AND FITTINGS SHALL BE ADEQUATE FOR WATER SERVICE OF 250 PSI WORKING PRESSURE. THE BOLT CIRCLE AND BOLT HOLES OF THE FLANGES SHALL MATCH THOSE OF THE CLASS 125 FLANGES SHOWN IN ANSI B16.1.
 - NUTS AND BOLTS SHALL BE IN ACCORDANCE WITH ASTM STANDARD A 193-B7 AND A 194, GRADE 4.
 - GASKETS SHALL BE 1/4\"/>

PWD WATER METER PIT
SCALE: N.T.S.

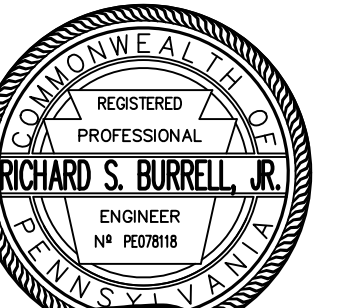
REVISIONS

ISSUE	DATE	REVISIONS
A	02.09.2024	REVISED PER PWD PCRM REVIEW COMMENTS
1	02.23.2024	ADDENDUM 1



PROJECT COORDINATOR
Philadelphia Parks & Recreation
and Department of Public Property
1515 Arch Street, 11th Floor
Philadelphia, PA 19102

SEAL



RICHARD STARR BURRELL, JR., P.E.

SPACE FOR CONSULTANT RECOGNITION

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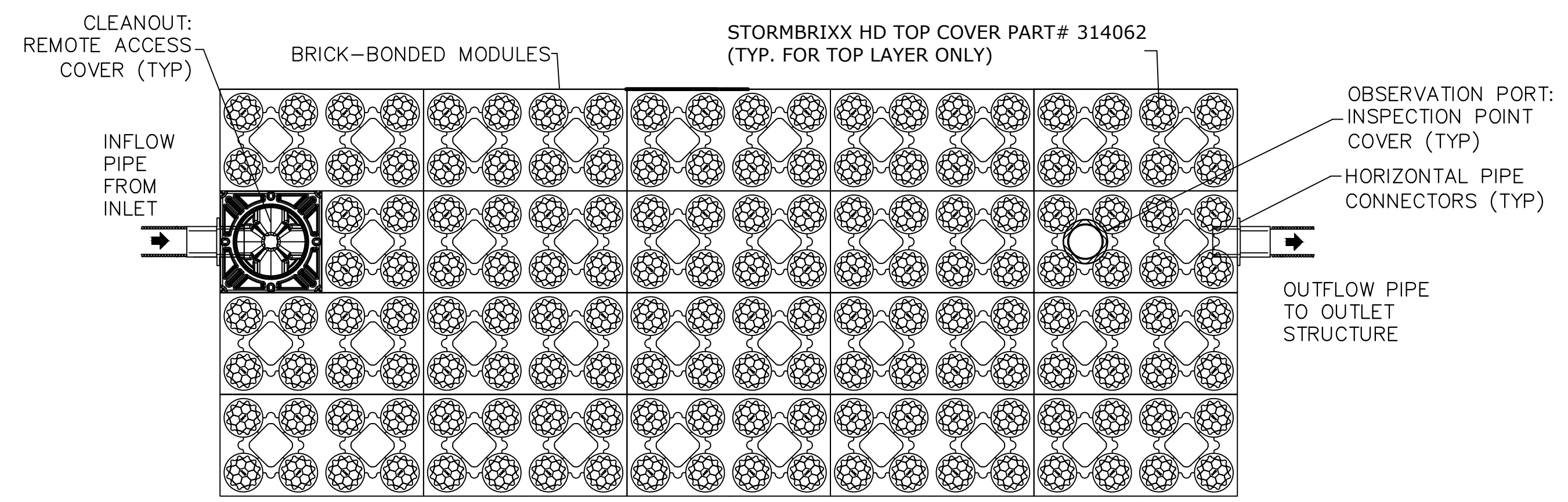
PROJECT TITLE
NICETOWN PARK
4301 GERMANTOWN AVENUE
PHILADELPHIA, PA 19134

DRAWING TITLE
UTILITY DETAILS

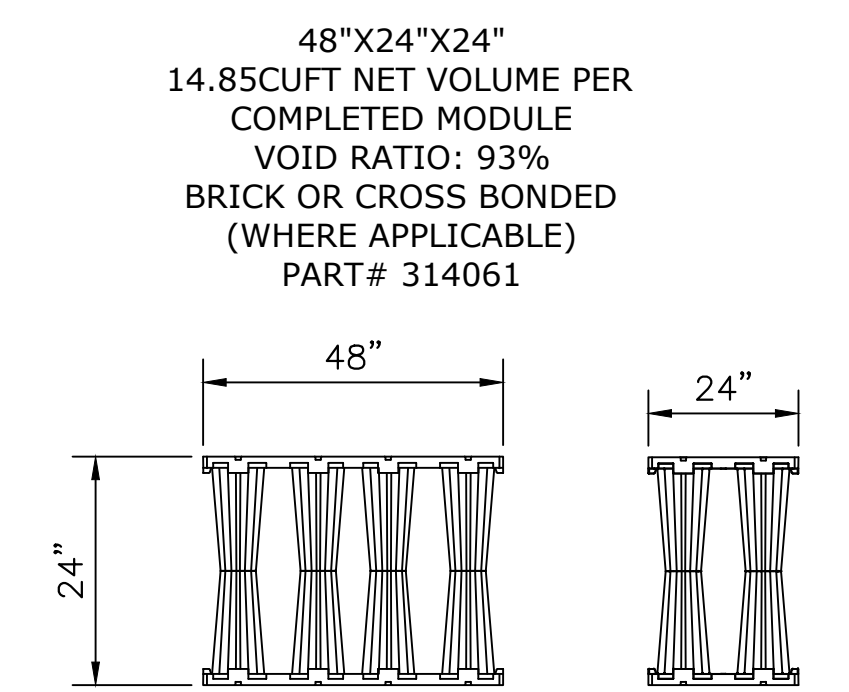
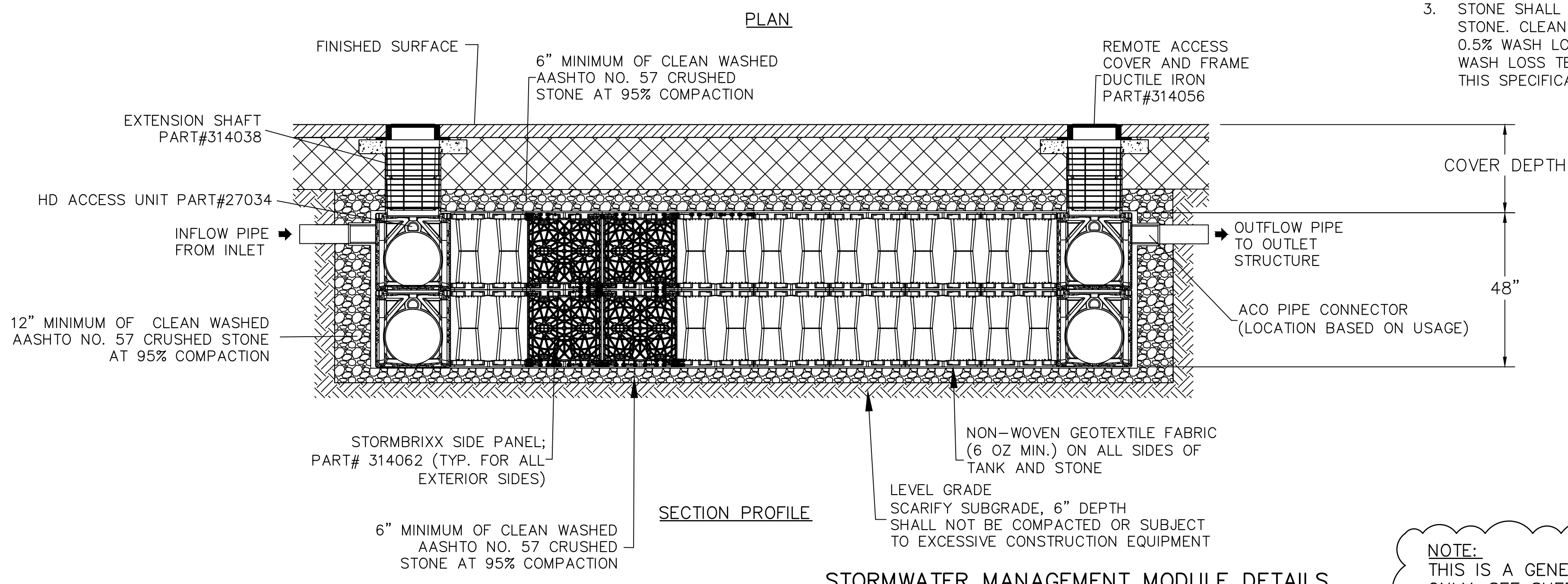
RSE PROJECT NO.	2471-02	DRAWING NO.	
DATE	01.19.2024		
SCALE	AS NOTED		
DRAWN BY	KSE		
CHECKED BY	RSB		

C-5.1

NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PHILADELPHIA.



- NOTES:**
- GEOTEXTILE MUST CONSIST OF POLYPROPYLENE FIBERS AND MEET THE FOLLOWING SPECIFICATIONS (AASHTO CLASS 1 OR CLASS 2 GEOTEXTILE IS RECOMMENDED):
 - GRAB TENSILE STRENGTH (ASTM-D4632): ≥ 120 LBS
 - MULLEN BURST STRENGTH (ASTM-D3786): ≥ 225 PSI
 - FLOW RATE (ASTM-D4491): ≥ 95 GAL/MIN/FT²
 - UV RESISTANCE AFTER 500 HRS (ASTM-D4355): $\geq 70\%$
 - HEAT-SET OR HEAT-CALENDARED FABRICS ARE NOT PERMITTED
 - STORAGE PIPES:
 - PIPE USED WITHIN THE SUBSURFACE INFILTRATION SMP MUST BE CONTINUOUSLY PERFORATED AND HAVE A SMOOTH INTERIOR WITH A MINIMUM INNER DIAMETER OF FOUR INCHES.
 - HIGH-DENSITY POLYETHYLENE (HDPE) PIPE MUST MEET THE SPECIFICATIONS OF AASHTO M252, TYPE S OR AASHTO M294, TYPE S.
 - ANY PIPE MATERIALS OUTSIDE THE SMP ARE TO MEET CITY PLUMBING CODE STANDARDS.
 - STONE SHALL BE UNIFORMLY GRADED, CRUSHED, CLEAN-WASHED STONE. CLEAN-WASHED STONE IS DEFINED AS HAVING LESS THAN 0.5% WASH LOSS, BY MASS, WHEN TESTED PER THE AASHTO T-11 WASH LOSS TEST. AASHTO NO. 3 AND NO. 57 STONE CAN MEET THIS SPECIFICATION.



*ALL SYSTEMS MUST BE INSTALLED TO MEET OR EXCEED ACO STORMBRIXX MINIMUM REQUIREMENTS. ACO STORMBRIXX OFFERS SUPPORT DURING THE CONSTRUCTION PHASE.

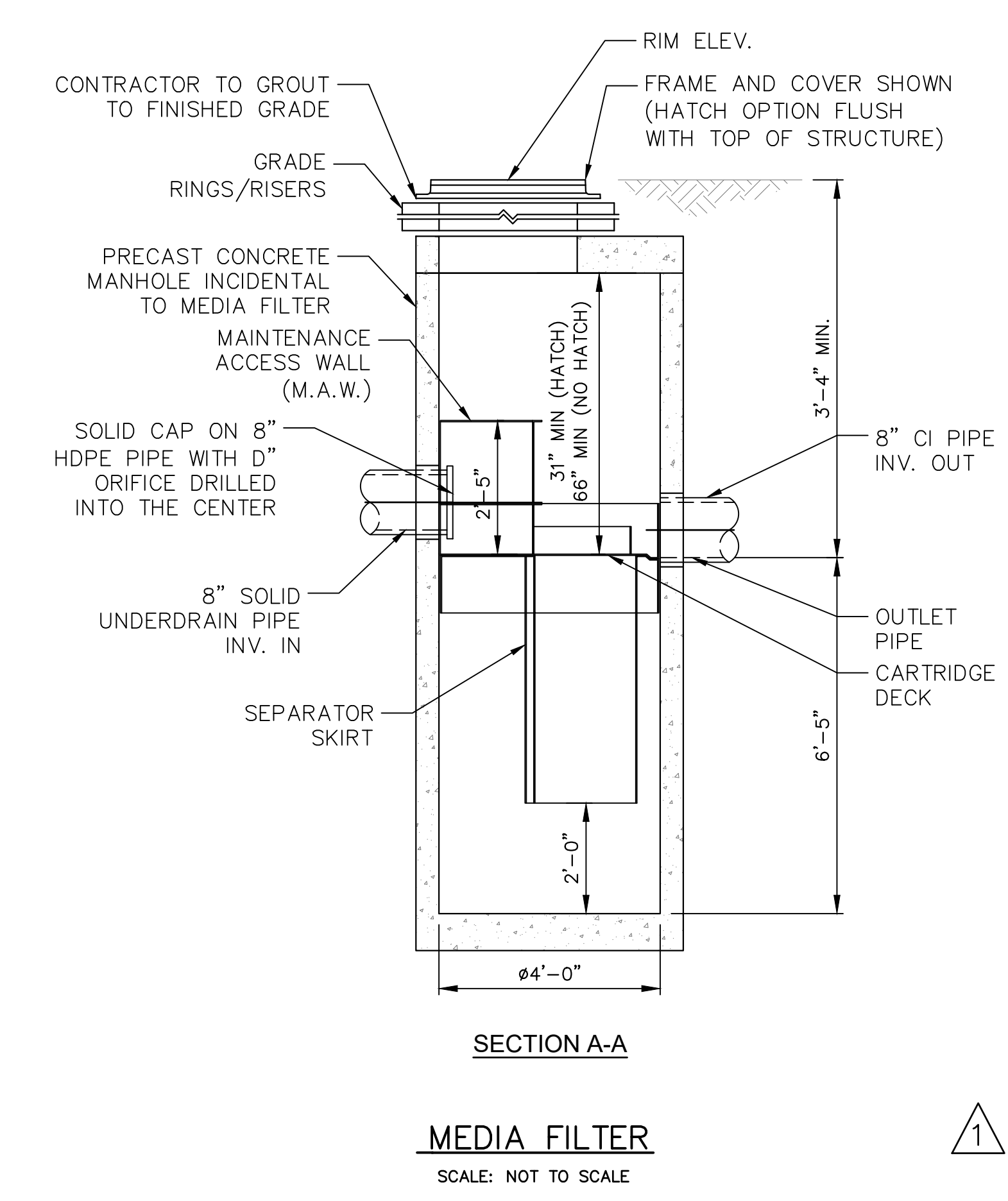
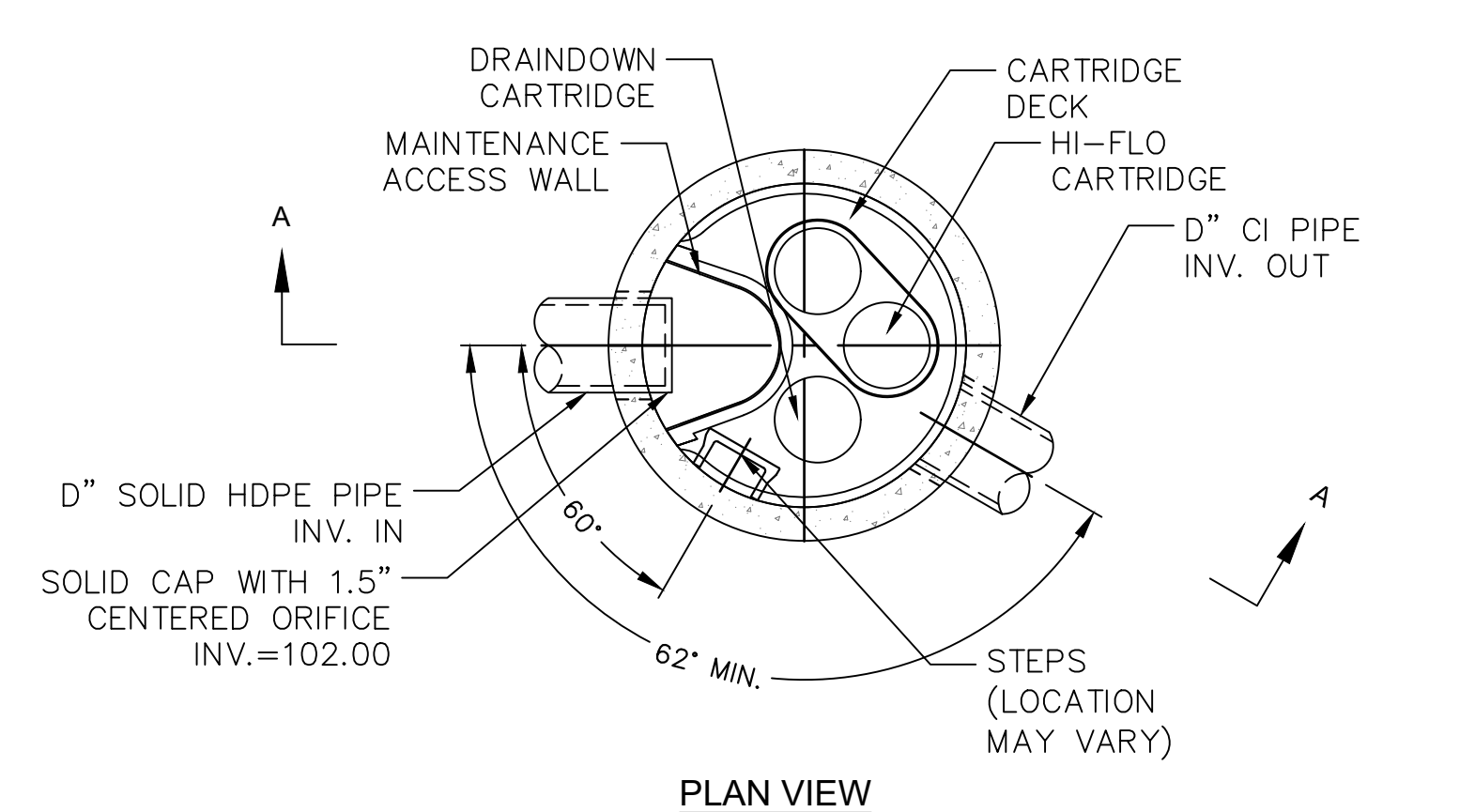
STORMWATER MANAGEMENT MODULE DETAILS

NOTE:
THIS IS A GENERALIZED DETAIL FOR INFORMATION PURPOSES ONLY. SEE SHEET C-2.2 FOR SMP SPECIFIC DETAILS.

- NOTES:**
- MEDIA FILTER SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 - STRUCTURE SHALL MEET AASHTO HS-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0'-3', AND GROUNDWATER ELEVATION AT, OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD FACTOR DESIGN METHOD.
 - STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

- CONTECH INSTALLATION NOTES:**
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED)
 - CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT)
 - WHEN ACTIVATED PRIOR TO SITE STABILIZATION, CONTRACTOR TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
 - CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ACCORDING TO THE PROVISIONS IN THE ACTIVATION CHECKLIST AND THE QUOTED SCOPE OF WORK. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (800) 338-1122

MEDIA FILTER SITE SPECIFIC DESIGN DATA									
SMP NO.	FILTER NO.	WATER QUALITY FLOW RATE (CFS)	BRAND/MODEL	NUMBER OF CARTRIDGES REQUIRED (DD/HD)	CARTRIDGE SIZE	UNDERDRAIN INV. IN	ORIFICE SIZE, D, (INCH)	ORIFICE INV. IN	INV. OUT
SMP-1-ALT	MF-1-ALT	0.010	4' JELLYFISH CONTECH FILTER MANHOLE HOUSING 1 HF AND 1 DD	1 / 1	54"	97.00	0.75	97.27	96.50

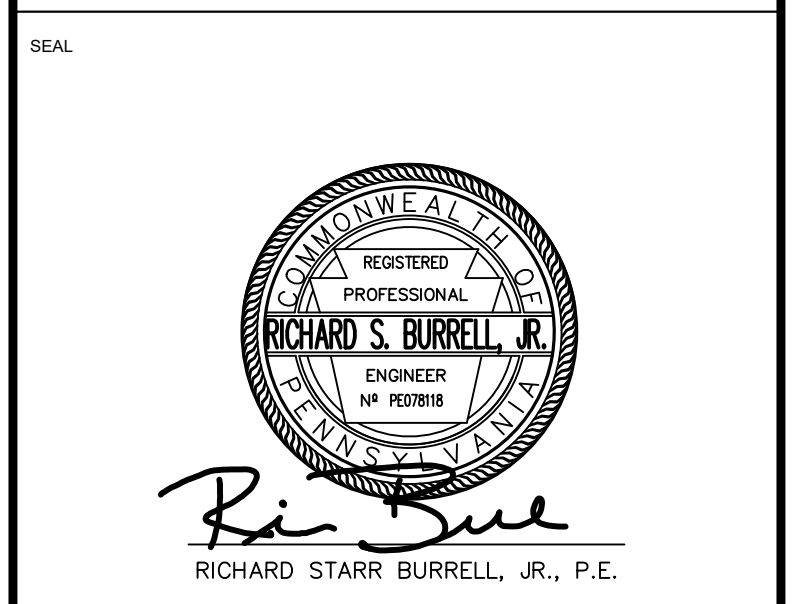


MEDIA FILTER
SCALE: NOT TO SCALE

REVISIONS		
ISSUE	DATE	REVISIONS
A	02.09.2024	REVISED PER PWD FORM REVIEW COMMENTS
1	02.23.2024	ADDENDUM 1



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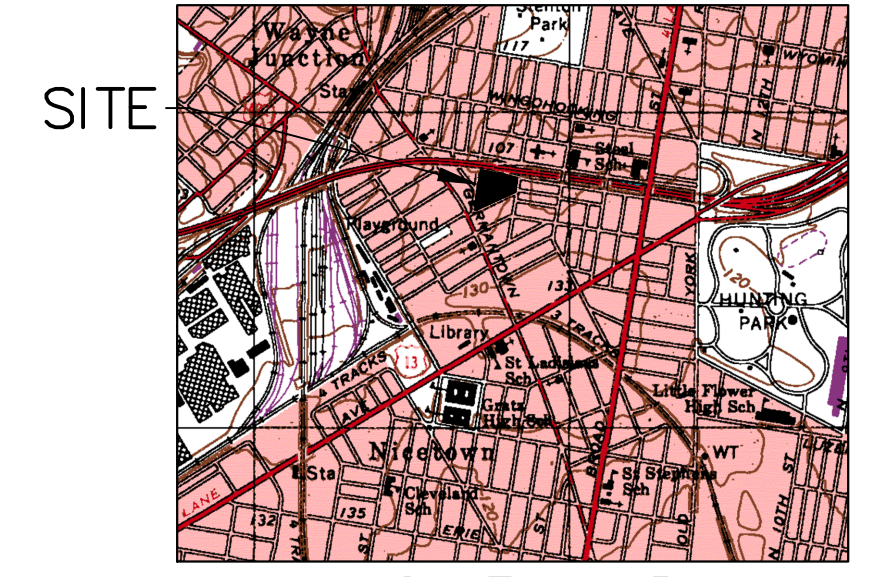
PROJECT TITLE
NICETOWN PARK
4301 GERMANTOWN AVENUE
PHILADELPHIA, PA 19134

DRAWING TITLE
CONSTRUCTION DETAILS

KSE PROJECT NO. 2471-02	DRAWING NO. C-5.3
DATE 01.19.2024	
SCALE AS NOTED	
DRAWN BY KSE	
CHECKED BY RSB	

NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PHILADELPHIA.

ROOSEVELT BLVD. EXTENSION - (US RTE 1)



VICINITY MAP
1" = 1000'
TOOKANY-TACONY/
FRANKFORD CREEK
WATERSHED

SOIL SYMBOL	SOIL DESCRIPTION	% OF SITE	RUNOFF CLASS	HYDRIC SOIL	SLOPE RANGE	DEPTH	SOIL LIMITATIONS
UdB	URBAN LAND - CHESTER COMPLEX	100.00%	LOW	NO	0-8%	0"-10"	N/A

EROSION AND SEDIMENT CONTROL (E&S) NOTES:

- EXISTING CONCRETE AND BITUMINOUS PAVING TO BE SAW-CUT ALONG LIMIT OF DISTURBANCE LINE WITH A CLEAN CUT LINE TO A SUFFICIENT DEPTH TO ALLOW THE REMOVAL OF PAVING WITHOUT DISTURBING THE EXISTING PAVING THAT IS TO REMAIN.
- THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION AND SHALL SAFELY AND LEGALLY DISPOSE OF ALL THESE ITEMS IN ACCORDANCE WITH APPLICABLE LOCAL, FEDERAL, STATE AND REGULATORY AUTHORITY HAVING JURISDICTION. RECYCLING MUST BE DONE IN ACCORDANCE WITH APPLICABLE REGULATIONS. BURNING OF ANY DEMOLISHED MATERIALS ON-SITE SHALL NOT BE PERMITTED. RECYCLING OF DEMOLITION DEBRIS SHALL BE APPROVED BY THE OWNER. ALL EXISTING FILL TO BE REMOVED FROM SITE IN ACCORDANCE WITH THE PA DEP MANAGEMENT OF FILL POLICY AND REGULATIONS.
- COMPOST FILTER SOCK ON PAVING TO BE WEIGHTED DOWN BY OBJECTS OF CONSIDERABLE MASS (SAND BAGS, CONCRETE BLOCK OR OTHER SUITABLE MATERIAL). COMPOST FILTER SOCK TO BE INSTALLED DOWNSTREAM OF ALL EARTH MOVING ACTIVITIES.
- INLET PROTECTION IN ROADWAYS NOT TO INCLUDE STONE OR BERMS FOR ROADWAY MAINTENANCE PURPOSES.
- MAXIMUM HEIGHT FOR STOCKPILE AREAS TO BE 20 FEET. THE MAXIMUM SIDE SLOPE FOR STOCKPILE AREAS NOT TO EXCEED 2H:1V.
- RUMBLE PAD TO BE SIZED IN ACCORDANCE WITH PA DEP MINIMUM REQUIREMENTS OF 50'L X 20'W AND INSTALLED.
- CONSTRUCTION, DEMOLITION AND EARTHWORK DUST CONTROL TO BE COMPLETED IN ACCORDANCE WITH THE CITY OF PHILADELPHIA DUST CONTROL REQUIREMENTS (AIR MANAGEMENT REGULATION (AMR) II, SECTION IX.) AND TO INCLUDE BUT NOT LIMITED TO:
 - NOTIFY OCCUPANTS OF NEARBY PROPERTIES, IN WRITING 10 DAYS BEFORE ENGAGING IN EARTHWORK, CONSTRUCTION AND DEMOLITION ACTIVITIES.
 - USE OF VACUUM OR SIMILAR SUCTION SYSTEMS TO CAPTURE DUST KICKED UP BY POWER TOOLS WHEN GRINDING OR CUTTING.
 - APPLICATION OF WATER OR APPROVED DUST CONTROL SUPPRESSANT DURING EXCAVATION, DEMOLITION AND/OR CONSTRUCTION TO SUPPRESS DUST FORMATION.
 - COVERING AND WETTING OF STOCKPILES EARTH, SAND, GRAVEL AND OTHER SIMILAR CONSTRUCTION MATERIALS.
 - ALL PERIMETER FENCING MUST HAVE DUST CONTROL FABRIC AND MUST MEASURE A MINIMUM OF 5 FT IN HEIGHT FROM THE BOTTOM OF FENCING.
 - 10 MILE PER HOUR SPEED LIMIT FOR ALL EQUIPMENT AND TRUCKS TRAVELING WITHIN THE WORK SITE.
 - WETTING AND SWEEPING OF ROADWAYS / ACCESS ROAD IN A WORK SITE TO PREVENT DUST FORMATION.

E&S LEGEND	
8" COMPOST FILTER SOCK	8 CFS
12" COMPOST FILTER SOCK	12 CFS
18" COMPOST FILTER SOCK	18 CFS
24" COMPOST FILTER SOCK	24 CFS
32" COMPOST FILTER SOCK	32 CFS
INLET PROTECTION (FILTER BAG)	FB
INLET PROTECTION (COMPOSITE FILTER SOCK)	CFS
LIMIT OF DISTURBANCE AND PROJECT SITE BOUNDARY	LOD
RUMBLE PAD	[Symbol]

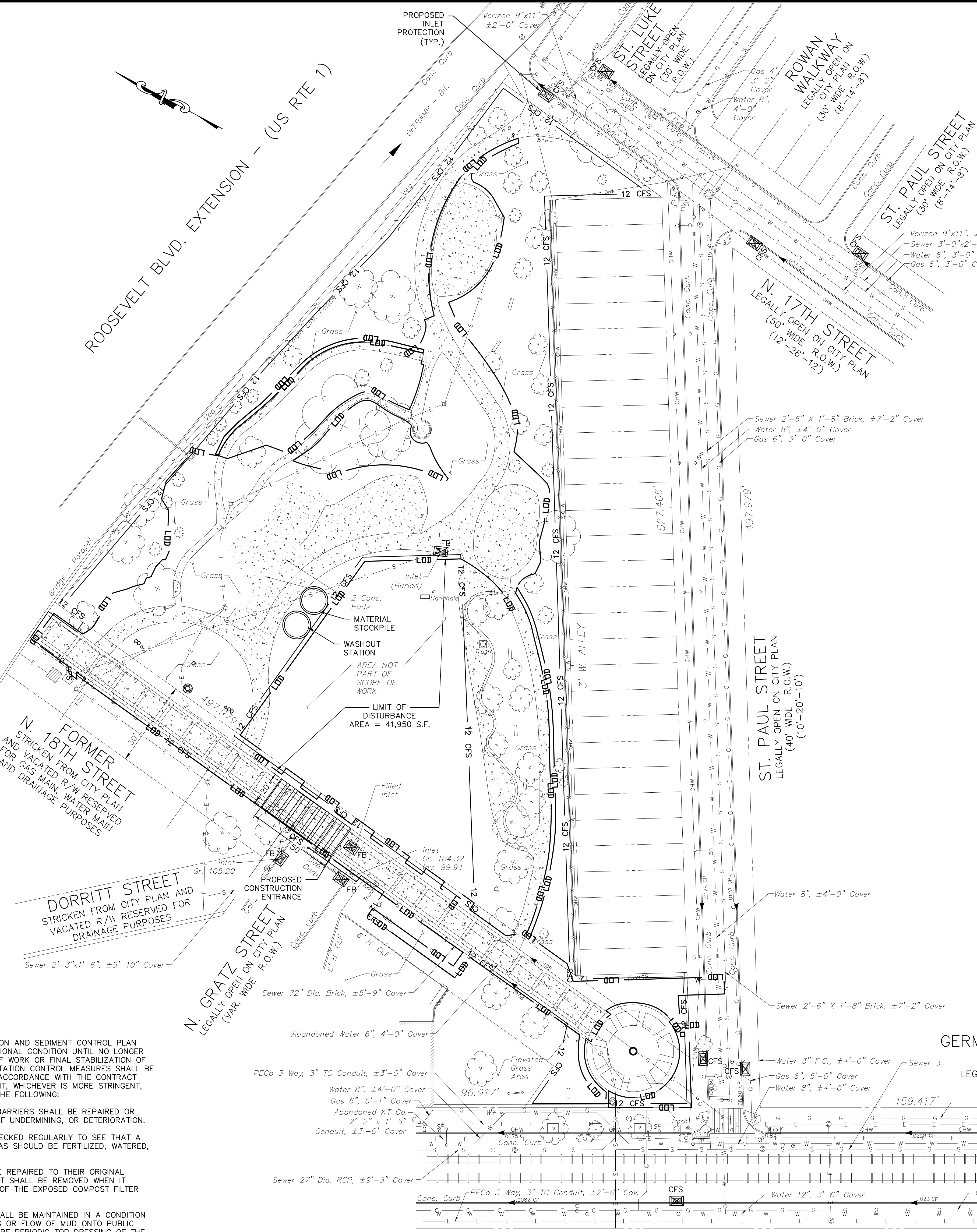
MAINTENANCE NOTES:

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEDED AS NEEDED.
- COMPOST FILTER SOCKS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE-HALF THE HEIGHT OF THE EXPOSED COMPOST FILTER SOCK.
- THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCE AS CONDITIONS DEMAND.
- BMPs ARE TO BE INSPECTED ON A WEEKLY BASIS AND AFTER STORMWATER EVENTS. INSPECTIONS ARE TO BE LOGGED, DATED AND KEPT ON-SITE AT ALL TIMES.

GENERAL NOTES:

- SEE ARCHITECTURAL DRAWINGS FOR DETAILED RETAINING WALL DIMENSIONS AND LAYOUTS.
- HORIZONTAL DATUM IS THE NAD83 PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983, (PA83-SF, NAD 83). VERTICAL DATUM IS THE CITY OF PHILADELPHIA VERTICAL DATUM BASED UPON A BENCHMARK.
- SUBJECT TO ALL RESTRICTIONS, EASEMENTS AND/OR COVENANTS OF RECORD EITHER WRITTEN OR IMPLIED THAT MAY NOT APPEAR ON THIS PLAN.
- INFORMATION PERTAINING TO LOTS OTHER THAN THE SUBJECT PARCEL IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- SITE LIES WITHIN THE MAPPED LIMITS OF FLOOD ZONE X, AS SHOWN ON THE FEMA FLOOD INSURANCE RATE PAY COMMUNITY-PANEL NO 4207570109G, DATED 01/17/2007 FOR THE CITY OF PHILADELPHIA.
- PROJECT SITE IS NOT LOCATED IN A SPECIAL FLOOD HAZARD ZONE AND THERE ARE NOT WETLANDS ON SITE. THERE ARE NO WATER COURSES OR BODIES OF WATER LOCATED WITHIN 100 FEET OF THE PROPERTY.
- NO PROPOSED PARKING AS PART OF THIS PROJECT.
- NO SIGNAGE PROPOSED AS PART OF THIS PROJECT.
- SEE LANDSCAPING PLANS FOR ALL LAYOUTS.



ACT 187	
IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 187 AND TO CONTACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR TO START OF CONSTRUCTION.	
PENNSYLVANIA ONE CALL: 1-800-242-1776	
PHILADELPHIA WATER DEPARTMENT 1101 MARKET STREET, 2ND FLOOR PHILADELPHIA, PENNSYLVANIA (215) 685-6270	VERIZON 900 RACE STREET PHILADELPHIA, PENNSYLVANIA 19107 (215) 351-8947
PHILADELPHIA GAS WORKS 800 W. MONTGOMERY AVENUE, 3RD FLOOR PHILADELPHIA, PENNSYLVANIA 19122 (215) 684-6796	COMCAST 1351 S. COLUMBUS BOULEVARD PHILADELPHIA, PENNSYLVANIA 19147 (215) 952-4935
PECO-CONSTRUCTION DEPARTMENT 2307 MARKET STREET PHILADELPHIA, PENNSYLVANIA 19103 (215) 731-3264	

PROTECT YOURSELF

WHAT YOU DON'T KNOW CAN HURT YOU.

CALL BEFORE YOU DIG
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE & 10 WORKING DAYS IN DESIGN STAGE

Philadelphia One Call System, Inc.
1-800-242-1776

SITE LOCATION:
4301 GERMANTOWN AVENUE
PHILADELPHIA, PA 19134

OPA ACCOUNT NO.:
132257005

PROPERTY OWNER:
CITY OF PHILADELPHIA

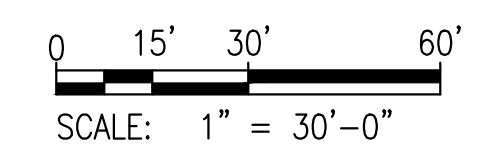
PROPERTY OWNER ADDRESS:
NICETOWN PARK
1401 JOHN F. KENNEDY BLVD
PHILADELPHIA, PA 19102-1617

APPLICANT:
GROUND RECONSIDERED

ZONING:
SPPCA-RECREATION

WARD:
#13

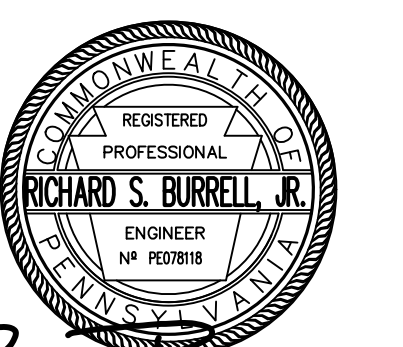
PWD TRACKING No.
FY22-NICE-6841-01



REVISIONS		
ISSUE	DATE	REVISIONS
A	02.09.2024	REVISED PER PWD PCRM REVIEW COMMENTS
1	02.23.2024	ADDENDUM 1



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CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1515 ARCH STREET
11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA, PENNSYLVANIA

PROJECT TITLE:
NICETOWN PARK
4301 GERMANTOWN AVENUE
PHILADELPHIA, PA 19134

DRAWING TITLE:
EROSION AND
SEDIMENT CONTROL
PLAN

KSE PROJECT NO:
2471-02

DATE:
01.19.2024

SCALE:
1" = 30'-0"

DRAWN BY:
KSE

CHECKED BY:
RSB

CE-1.1

NOTE: OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PHILADELPHIA AND THE STATE OF PENNSYLVANIA.

TABLE 4.1
Compost Sock Fabric Minimum Specifications

Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable	Photo-degradable
Sock Diameters	12" 18"	12" 18" 24" 30"	12" 18" 24" 30"	12" 18" 24" 30"	12" 18" 24" 30"	12" 18"
Mesh Opening	3/8"	3/8"	3/8"	3/8"	3/8"	1/8"
Tensile Strength		26 psi	26 psi	44 psi		202 psi
Ultraviolet Stability %						
Original Strength (ASTM G-165)	25% at 1000 hr.	25% at 1000 hr.		100% at 1000 hr.		100% at 1000 hr.
Minimum Functional Longevity	6 months	9 months	6 months	1 year		2 years

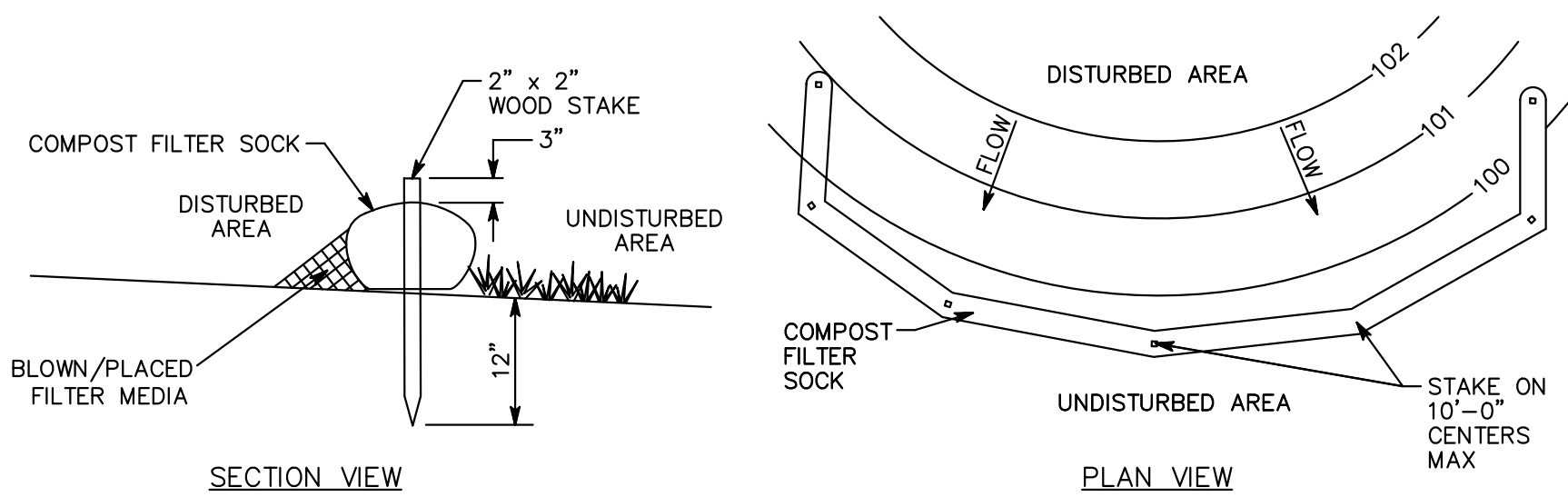
Two-ply systems

Inner Containment Netting	Outer Filtration Mesh
HDPE biaxial net	Composite Polypropylene Fabric (Woven layer and non-woven fleece mechanically fused via needle punch)
Continuously welded	214" Max. aperture size
Fusion-welded junctures	
3/4" x 3/4" Max. aperture size	

Sock fabrics composed of burlap may be used on projects lasting 6 months or less.

TABLE 4.2
Compost Standards

Organic Matter Content	80% - 100% (dry weight basis)
Organic Puffiness	Fibrous and elongated
pH	5.5 - 8.0
Moisture Content	35% - 55%
Particle Size	98% pass through 1" screen
Soluble Salt Concentration	5.0 dS/m (milliMhos/cm) Maximum



- REMOVE DEPOSITS WHEN SEDIMENT ACCUMULATION IS ONE HALF THE HEIGHT OF THE EXPOSED COMPOST FILTER SOCK.
- PLACE COMPOST FILTER SOCK ON LEVEL GRADE. EXTEND BOTH ENDS OF THE COMPOST FILTER SOCK AT LEAST 8'-0" UPSLOPE AT 45 DEGREES TO THE MAIN ALIGNMENT.
- REPLACE BIODEGRADABLE FILTER SOCK AFTER 6 MONTHS; PHOTODEGRADABLE AFTER 12 MONTHS.
- ALL DIMENSIONS ARE IN U.S. CUSTOMARY UNITS.
- CONTRACTOR SHALL PROVIDE SAND BAGS, CONCRETE BLOCKS, OR OTHER SUITABLE MATERIAL TO STABILIZE COMPOST FILTER SOCK ON PAVED AREAS AND PREVENT IT FROM MOVING OR SHIFTING. STABILIZING DEVICES SHALL BE SPACED TO FEET ON CENTER OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS LESS.
- SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

COMPOST FILTER SOCK

TOPSOIL APPLICATION

Graded areas should be scarified or otherwise loosened to a depth of 3 to 5 inches to permit bonding of the topsoil to the surface areas and to provide a roughened surface to prevent topsoil from sliding down slope.

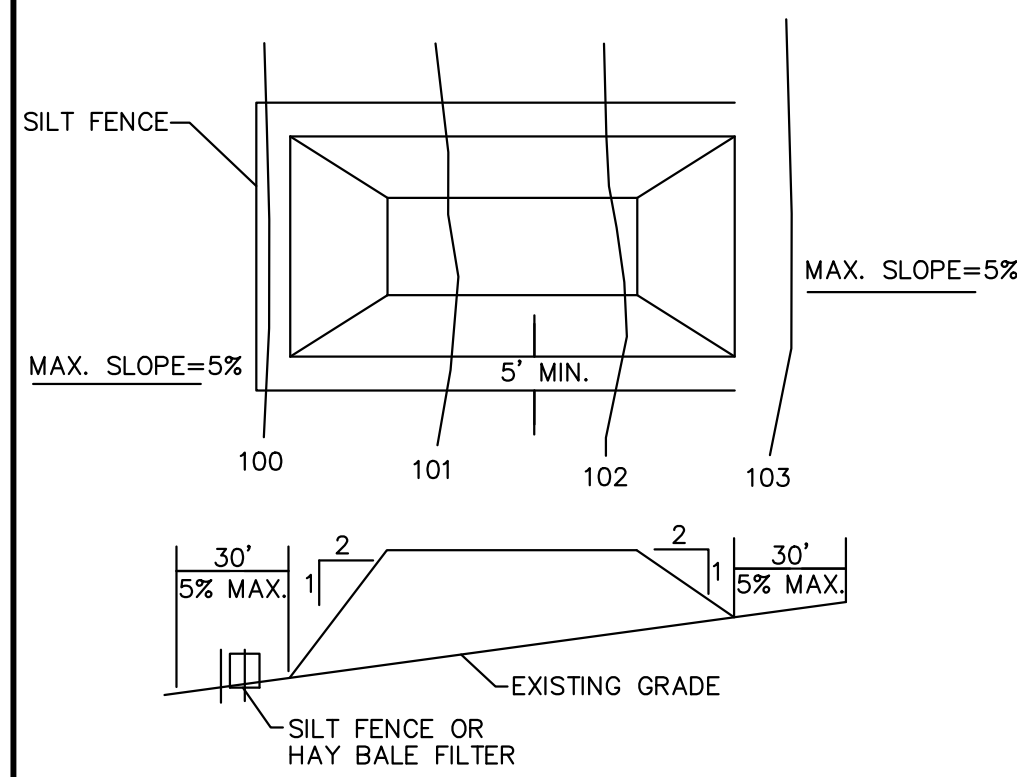
Topsoil should be uniformly distributed across the disturbed area to a depth of 4 to 8 inches minimum - 2 inches on fill cut slopes. Spreading should be done in such a manner that sodding or seeding can proceed with a minimum of additional preparation or tillage. Irregularities in the surface resulting from topsoil placement should be corrected in order to prevent formation of depressions unless such depressions are part of the FCSM plan.

Topsoil should not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet, or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. Compacted soils should be scarified 6 to 12 inches along contour whenever possible prior to seeding.

TABLE 11.1
Cubic Yards of Topsoil Required for Application to Various Depths

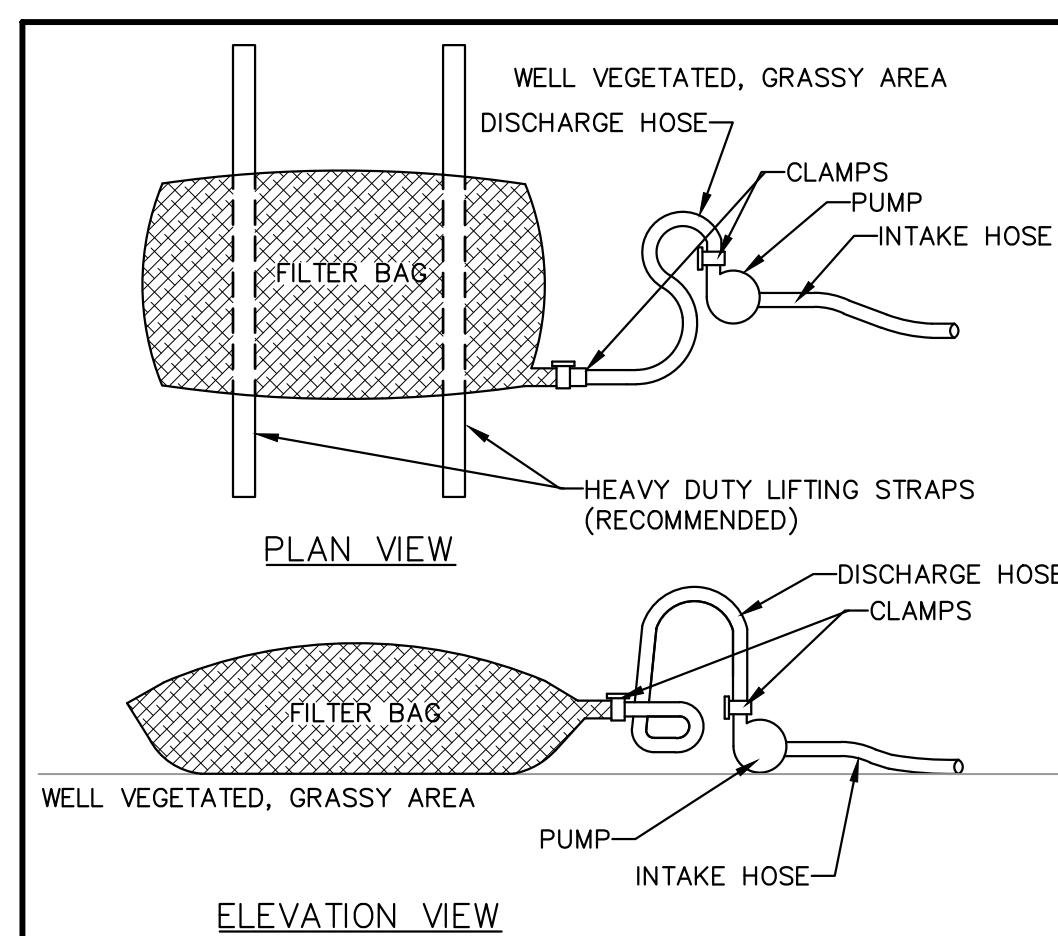
Depth (in)	Per 1,000 Square Feet	Per Acre
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806
7	21.7	940
8	24.8	1,074

Adapted from VA DSW/CV

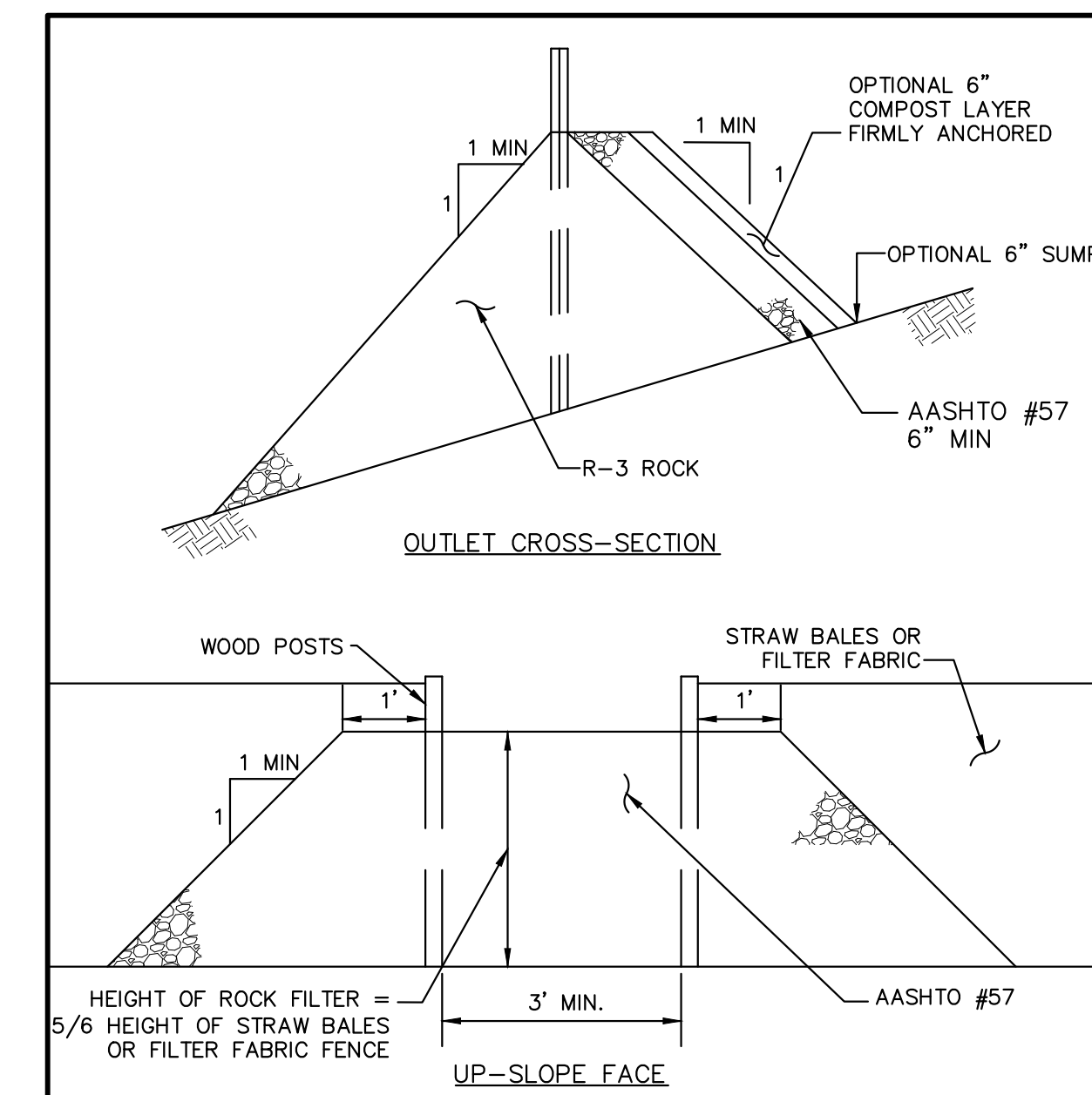


- NOTES:**
- PLACE STOCKPILES AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
 - ALL SIDE SLOPES SHALL BE 2H:1V OR FLATTER.
 - STOCKPILE SHALL RECEIVE A VEGETATIVE COVER IN ACCORDANCE WITH MINIMUM STABILIZATION REQUIRED.
 - SILT FENCE SHALL BE INSTALLED AS DETAILED HEREON.
 - STOCKPILE NOT TO EXCEED 20 FEET IN HEIGHT.

TEMPORARY STOCKPILE

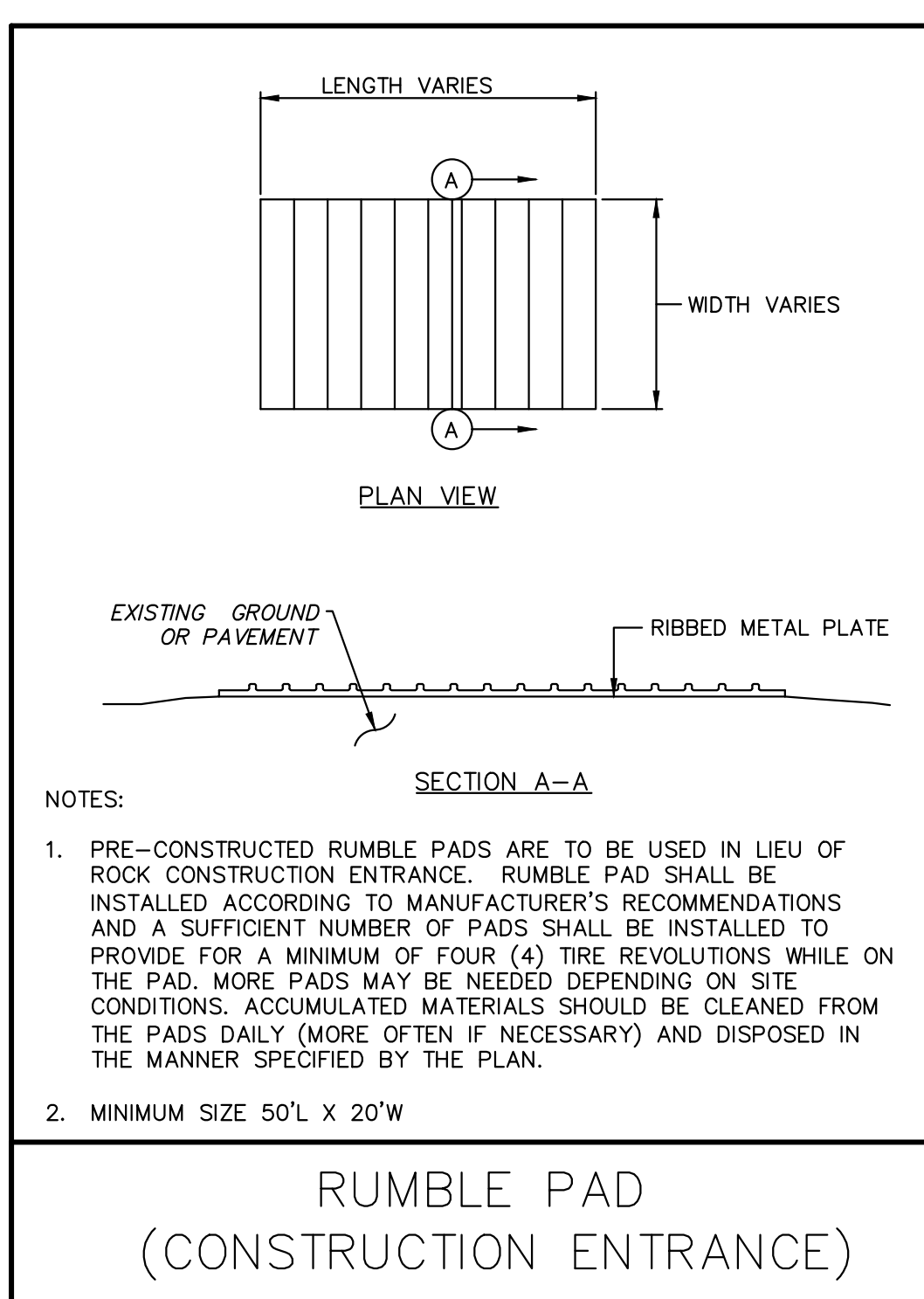


PUMPED WATER FILTER BAG



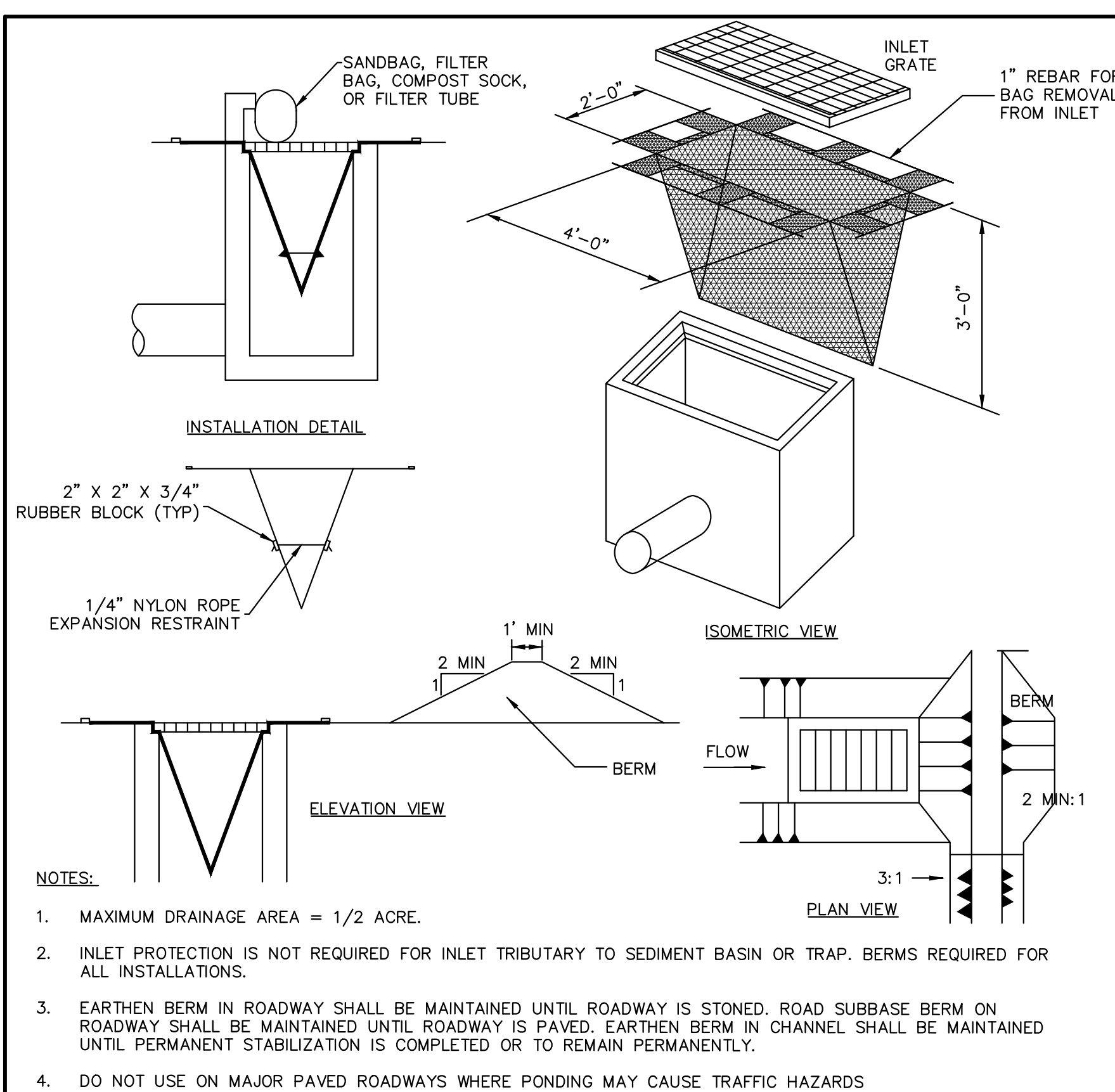
- Notes:**
- A rock filter outlet shall be installed where failure of a silt fence or straw barrier has occurred due to concentrated flow. Anchored compost layer shall be used on upslope face in HQ and EV watersheds.
 - Sediment must be removed when accumulations reach 1/3 the height of the outlet.

ROCK FILTER OUTLET



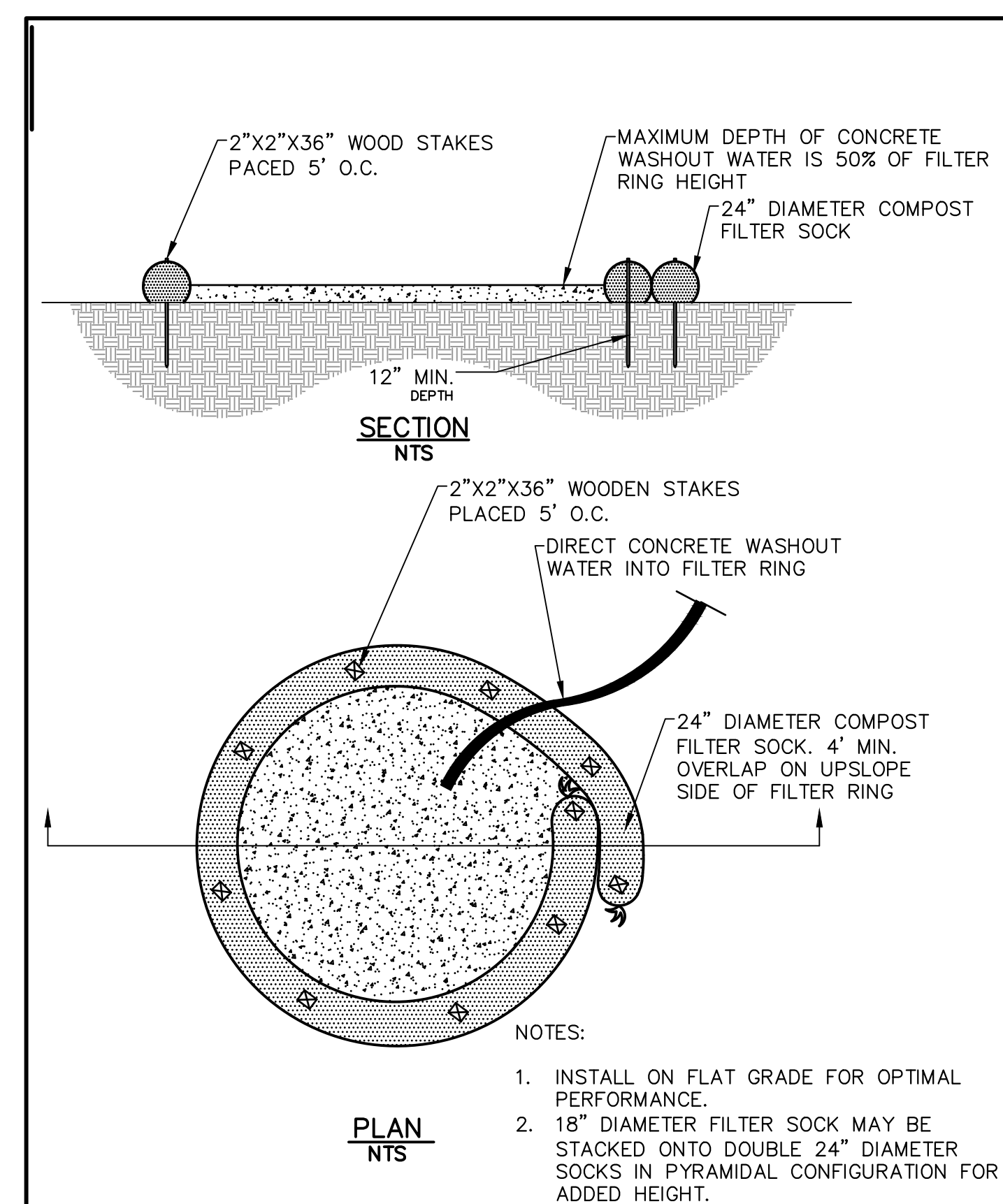
- NOTES:**
- PRE-CONSTRUCTED RUMBLE PADS ARE TO BE USED IN LIEU OF ROCK CONSTRUCTION ENTRANCE. RUMBLE PAD SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND A SUFFICIENT NUMBER OF PADS SHALL BE INSTALLED TO PROVIDE FOR A MINIMUM OF FOUR (4) TIRE REVOLUTIONS WHILE ON THE PAD. MORE PADS MAY BE NEEDED DEPENDING ON SITE CONDITIONS. ACCUMULATED MATERIALS SHOULD BE CLEANED FROM THE PADS DAILY (MORE OFTEN IF NECESSARY) AND DISPOSED IN THE MANNER SPECIFIED BY THE PLAN.
 - MINIMUM SIZE 50' L X 20' W

RUMBLE PAD
(CONSTRUCTION ENTRANCE)



- NOTES:**
- MAXIMUM DRAINAGE AREA = 1/2 ACRE.
 - INLET PROTECTION IS NOT REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS REQUIRED FOR ALL INSTALLATIONS.
 - EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.
 - DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS

FILTER BAG INLET PROTECTION



- NOTES:**
- INSTALL ON FLAT GRADE FOR OPTIMAL PERFORMANCE.
 - 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.

COMPOST SOCK WASHOUT STATION

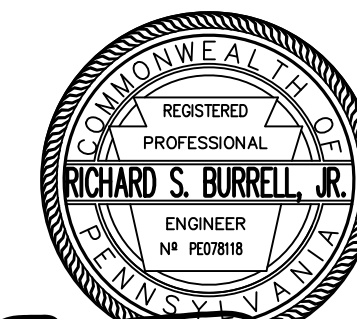
REVISIONS

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1	02.23.2024	ADDENDUM 1



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CITY OF PHILADELPHIA
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PROJECT TITLE
NICETOWN PARK
4301 GERMANTOWN AVENUE
PHILADELPHIA, PA 19134

DRAWING TITLE
**EROSION AND
SEDIMENT CONTROL
DETAILS**

KSE PROJECT NO.
2471-02

DATE
01.19.2024

SCALE
AS NOTED

DRAWN BY
KSE

CHECKED BY
RSB

DATE
01.19.2024

SCALE
AS NOTED

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KSE

CHECKED BY
RSB

CE-5.1

STANDARD EROSION AND SEDIMENT CONTROL NOTES:

- 1. AN INDUSTRIAL WASTE PERMIT WILL BE REQUIRED SHOULD PUMPING TO CITY-OWNED INFRASTRUCTURE BECOME NECESSARY DURING CONSTRUCTION...
- 2. MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS MUST BE INSTALLED ON ALL SLOPES GREATER THAN 3:1.
- 3. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.
- 4. THE ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED ON-SITE...
- 5. THE MAXIMUM HEIGHT FOR STOCKPILES AREAS SHALL BE 20 FEET. THE MAXIMUM SIDE SLOPE FOR STOCKPILE AREAS SHALL NOT EXCEED 3H:1V.
- 6. THE ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED ON-SITE...
- 7. FILTER FABRIC FENCE SHOULD BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION SHOULD BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT.
- 8. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.
- 9. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MARKS AND/OR DATA SHEETS.
- 10. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION...
- 11. UNTIL THE SITE IS STABILIZED, ALL E&S BMP'S SHALL BE MAINTAINED PROPERLY.
- 12. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING, AS WELL AS CUTS AND FILLS, SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN.
- 13. AT LEAST THREE (3) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES...
- 14. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE APPROVED IN THE PLAN DRAWINGS.
- 15. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.
- 16. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE.
- 17. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS.
- 18. A LOG SHOWING DATES THAT E&S BMP'S WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND MADE AVAILABLE TO PWD AT ALL TIMES.
- 19. ALL SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN THE FOLLOWING MANNER: REMOVAL AND DISPOSAL TO BE AT AN OFF-SITE LOCATION IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- 20. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF THREE TO FIVE INCHES...
- 21. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS.
- 22. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED NINE INCHES IN THICKNESS.
- 23. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOO, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- 24. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- 25. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 26. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- 27. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE.
- 28. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUB-AREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS.
- 29. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION.
- 30. E&S BMP'S SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP'S APPROVED BY PWD AND PA DEP.
- 31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMP'S MUST BE REMOVED OR CONVERTED TO PERMANENT POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES.
- 32. SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS.
- 33. DURING CONSTRUCTION, THE SELECTED CONTRACTOR IS EXPECTED TO FOLLOW THE PCSMP APPROVED BY PWD (WHERE APPLICABLE) NO CHANGE OR DEVIATION FROM THE APPROVED PCSMP IS PERMITTED WITHOUT PRIOR APPROVAL FROM PWD.
- 34. ALL WORK ASSOCIATED WITH PWD WATER CONVEYANCE AND SEWER INFRASTRUCTURE SHALL BE DONE IN ACCORDANCE WITH THE CITY OF PHILADELPHIA WATER DEPARTMENT "WATER MAIN STANDARD DETAILS AND CORROSION CONTROL SPECIFICATIONS", 1985 EDITION, AND "STANDARD DETAILS AND STANDARD SPECIFICATIONS FOR SEWERS", 1985 EDITION.
- 35. CONTACT PWD WATER TRANSPORT RECORDS (1101 MARKET STREET, 2ND FLOOR, PHONE: 215-685-6271) FOR ADDITIONAL APPROVALS AND PERMITS REQUIRED FOR ALL WATER SERVICES, METERS, AND CONNECTIONS TO THE EXISTING AND/OR PROPOSED PWD FACILITIES.
- 36. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE PADEP'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- 37. A DUST CONTROL PERMIT WILL BE REQUIRED WHEN COMPLETELY DEMOLISHING A BUILDING OR STRUCTURE THAT IS MORE THAN THREE (3) STORES, GREATER THAN FORTY (40) FEET TALL, OR ENCOMPASSES MORE THAN TEN THOUSAND (10,000) SQUARE FEET, COMPLETELY OR PARTIALLY DEMOLISHING ANY BUILDING OR STRUCTURE BY IMPLSION, OR ENGAGING IN EARTHWORKS, DEFINED AS "CLEARING, GRUBBING, OR EARTH DISTURBANCE OF ANY LAND IN EXCESS OF 5,000 SQUARE FEET.

SITE STABILIZATION METHODS (TEMPORARY & PERMANENT STABILIZATION)

- 1. STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE.
- 2. MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS MUST BE INSTALLED ON ALL SLOPES GREATER THAN 3:1.
- 3. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.

TEMPORARY SEEDING

- 1. THE FOLLOWING SURFACES OF THE SITE SHALL BE TEMPORARILY SEEDED AND MULCHED: A. THE SURFACE OF TOPSOIL STOCKPILES. B. THE SURFACE OF EXPOSED EARTH AREAS THAT WILL BE EXPOSED WITHOUT CONSTRUCTION ACTIVITY THEREON.
- 2. SEEDING SHALL OCCUR IMMEDIATELY AFTER ESTABLISHMENT OF THE TOPSOIL STOCKPILES OR ROUGH GRADED AREAS. THE FOLLOWING SHALL BE PLANTED: A. 40 LBS./ACRE ANNUAL RYE GRASS - COMMON, 100% P.L.S.
- 3. PREPARE AREAS TO BE SEEDED AS FOLLOWS: A. REMOVE ALL DEBRIS, INCLUDING LARGE STONES. APPLY LIME AT A RATE OF 3 TONS PER ACRE AND FERTILIZER AT THE RATE OF 30-60-50 PER ACRE AND WORK INTO SOIL. B. SOW SEED AT THE INDICATED RATE. DIVIDE SEED INTO TWO EQUAL LOTS, SOW ONE LOT IN ONE DIRECTION, SOW SECOND LOT AT RIGHT ANGLE TO FIRST. RAKE SEEDED AREA SLIGHTLY. ROLL SURFACE LIGHTLY TO FIRM SOIL AROUND SEED.
- 4. PLACE CLEAN DRY STRAW OR HAY MULCH WITHIN 48 HOURS AFTER SEEDING. PLACE AT THE RATE OF 3 TONS PER ACRE.
- 5. SEEDING DATES SHALL BE BETWEEN MARCH 1 AND NOVEMBER 15.

TEMPORARY MULCHING

- 1. MULCH PROPOSED LANDSCAPE AREAS OR TOPSOIL STOCKPILES IF EARTHWORK IS COMPLETED OUTSIDE OF THE RECOMMENDED PLANTING SEASONS FOR TEMPORARY SEEDING OR DUE TO UNFAVORABLE WEATHER CONDITIONS.
- 2. MULCH SHALL BE APPLIED IMMEDIATELY FOLLOWING THE ESTABLISHMENT OF THE TOPSOIL STOCKPILES AND/OR ROUGH GRADING.
- 3. MULCH WITH SUITABLE FIBROUS GROUND, SHREDED AGED HARDWOOD, PINE WOOD BARK OR STRAW, UNIFORMLY AND CONTINUOUSLY TO A LOOSE DEPTH OF 3 INCHES MINIMUM. ANCHOR AS REQUIRED.
- 4. PROPERLY MAINTAIN MULCHED AREAS UNTIL PERMANENT STABILIZATION MEASURES ARE COMPLETE. REAPPLY MULCH MATERIALS WHICH BECOME DISLOGGED AS INITIAL OR MODIFIED RATES AS NECESSARY. IF A FAILURE OCCURS WHICH REQUIRES REDRESSING, EXCAVATION, OR THE ESTABLISHMENT OF A NEW SLOPE, REPLACE MULCH AS NECESSARY.

PERMANENT SEEDING

- 1. PERMANENT SEEDING SHALL OCCUR IMMEDIATELY AFTER THE FINAL GRADING IS COMPLETED. THE FOLLOWING SEED SHALL BE PLACED UNLESS OTHERWISE SPECIFIED ON THE PLANS OR DIRECTED IN THE FIELD. THE FOLLOWING SEED MIX SHALL BE USED: A. 400K PERENNIAL RYE GRASS P.C.S. B. 3% RED TOP C. 20X CHAMPION PERENNIAL RYE GRASS QUANTITIES ARE OF PURE LIVE SEED (P.L.S.) SPREAD AT A RATE OF 63 LBS. PER ACRE.
- 2. REMOVE ALL DEBRIS, INCLUDING LARGE STONES. TILL SOIL TO A DEPTH OF FOUR INCHES TO SIX INCHES. APPLY LIME AT A RATE OF 4 TONS PER ACRE, APPLY COMMERCIAL 10-20-20 FERTILIZER AT A RATE OF 930 LBS. PER ACRE. WORK FERTILIZER INTO TOP INCH OF SOIL.
- 3. SEED ONLY AT THE FOLLOWING TIMES: A. SPRING: MARCH 1 TO APRIL 30 B. LATE SUMMER/EARLY FALL: AUGUST 15 TO NOVEMBER 15
- 4. DIVIDE SEED INTO TWO EQUAL LOTS. SOW ONE LOT IN ONE DIRECTION. SOW SECOND LOT AT RIGHT ANGLE TO FIRST LOT. RAKE SEEDED AREA SLIGHTLY. ROLL SURFACE LIGHTLY TO FIRM SOIL AROUND SEED.
- 5. MULCH SEEDED AREAS WITH STRAW OR HAY AT THE RATE OF 3 TONS PER ACRE. ANCHOR MULCH. COMPLY WITH THE REQUIREMENTS OF SECTION 805 - MULCHING, PENNDOT PUBLICATION 408. ANCHOR MULCH AS SPECIFIED.
- 6. MULCHING SHALL BE DONE AT THE MINIMUM RATE OF 3 TONS PER ACRE WITH SALT HAY, HAY OR STRAW MULCHES. PLACE MULCH IMMEDIATELY AFTER SEEDING OR WITHIN 48 HOURS AFTER SEEDING IS COMPLETED. PROPERLY MAINTAIN MULCHED AREAS UNTIL THE ENTIRE PROJECT HAS BEEN COMPLETELY RECLAIMED. MULCH MATERIALS WHICH BECOME DISLOGGED OR LOST DUE TO WIND, RAIN, OR OTHER CAUSES AT INITIAL RATES OR AS DIRECTED.
- 7. LIQUID MULCH BINDERS MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCHES. A. APPLICATIONS SHOULD BE HEAVY AT EDGES WHERE WIND CATCHES THE MULCH IN VALLEYS AND AT CRESTS OF BANKS. REMAINDER OF AREAS SHOULD BE UNIFORM IN APPEARANCE. B. USE ONE OF THE FOLLOWING: EMULSIFIED ASPHALT, CLASS E-1 OR E-6. APPLY 31 GALLONS PER 1,000 SQUARE YARDS ON SLOPES LESS THAN 8 FEET HIGH. ON SLOPES 8 FEET HIGH OR MORE, USE 58 GALLONS PER 1,000 SQUARE YARDS. OUTBACK ASPHALT, CLASS RC-250. APPLY 31 GALLONS PER 1,000 SQUARE YARDS ON FLAT AREAS AND ON SLOPES LESS THAN 8 FEET HIGH. ON SLOPES 8 FEET HIGH OR MORE, USE 58 GALLONS PER 1,000 SQUARE YARDS. NON-ASPHALTIC EMULSION - NATURAL VEGETABLE GUM BLENDING WITH GELLING AND HARDENING AGENTS (TERRA TACK, AR) AS MANUFACTURED BY GRASS GROWERS COMPANY OR EQUAL. APPLY 25 LBS. PER 1,000 SQUARE YARDS.

MAINTENANCE PROGRAM

- 1. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION STABILIZATION, AND MAINTENANCE OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN THIS PLAN. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR THE PROPER CONSTRUCTION AND STABILIZATION OF PERMANENT CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN THIS PLAN.
- 2. THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL PERMANENT CONTROL MEASURES.
- 3. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENNETING, MUST BE DONE IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS TO THOSE INSTALLED WILL BE REQUIRED.
- 4. SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF AT AN OFF-SITE LOCATION IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- 5. SOIL SEDIMENT REMOVED FROM SILT FENCE DURING REGULAR MAINTENANCE WILL BE INCORPORATED BACK INTO THE EARTHWORK AS FILL ON THE SITE. SOIL SEDIMENT MATERIAL SHALL BE DISTRIBUTED ON-SITE WITHOUT CHANGING DRAINAGE PATTERNS DURING A SPECIFIC CONSTRUCTION STAGE. SILT FENCE INSTALLED ON THE PROJECT SITE SHALL BE MAINTAINED AS FOLLOWS: A. THE FENCE CONDITION WILL BE INSPECTED ONCE A WEEK OR AFTER EVERY STORM EVENT, WHICHEVER COMES FIRST. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY. B. ACCUMULATED SEDIMENTS WILL BE REMOVED AS REQUIRED TO KEEP THE FENCE FUNCTIONAL. DEPOSITS WILL BE REMOVED WHERE ACCUMULATIONS REACH ONE-HALF THE ABOVE-GROUND HEIGHT OF THE FENCE. C. UNDERCUTTING OR EROSION OF THE TOE ANCHOR WILL BE REPLACED IMMEDIATELY WITH ROCK FILTER OUTLETS. D. ANY MANUFACTURER'S RECOMMENDATIONS WILL BE ADHERED TO WHEN REPLACING FILTER FABRIC FENCE DUE TO WEATHERING.
- 6. AT THE END OF EACH CONSTRUCTION DAY, ANY SEDIMENT DEPOSITED ON PUBLIC ROADWAYS, WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER WILL NOT BE PERMITTED.
- 7. OTHER BMP'S A. SEDIMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION AFTER EACH RUNOFF EVENT.

CONSTRUCTION SEQUENCE

- 1. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVIATE ALL CONTRACTORS INVOLVED IN EARTH MOVING ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE CITY OFFICIALS, THE EROSION AND SEDIMENT CONTROL PREPARER, AND REPRESENTATIVE OF THE CITY OF PHILADELPHIA EROSION AND SEDIMENT CONTROL OFFICE TO AN ON-SITE MEETING. INCLUDE A REPRESENTATIVE FROM PWD'S EROSION AND SEDIMENT CONTROL INSPECTION GROUP BY CONTACTING THE INSPECTIONS COORDINATOR OF PWD (OFFICE 215-685-6387).
- 2. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITY LOCATIONS.
- 3. CONSTRUCTION FENCE TO BE INSTALLED WHERE NEEDED TO PROTECT THE PUBLIC FROM LAND DISTURBANCE ACTIVITIES AND TO MAINTAIN PEDESTRIAN ACCESS.
- 4. INSTALL COMPOST FILTER SOCK DOWNHILL FROM ALL EARTH MOVING ACTIVITIES, ALTHOUGH OFF SITE AREAS ARE PAVED, COMPOST FILTER SOCK OR OTHER EROSION CONTROL PRACTICES SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE AND AS SHOWN ON THE PLAN.
- 5. INSTALL INLET PROTECTION AS SHOWN ON THE PLAN. EXISTING INLETS SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE CONSTRUCTION.
- 6. INSTALL CONSTRUCTION ENTRANCE AS SHOWN AND IN ACCORDANCE WITH THE CONSTRUCTION ENTRANCE DETAIL.
- 7. INSTALL SAFETY FENCE AROUND PERIMETER OF PROPOSED STORMWATER MANAGEMENT FACILITY. COMPACTION OF SOILS WITHIN SMP FOOTPRINT WILL REQUIRE THE CONTRACTOR TO PERFORM ADDITIONAL INFILTRATION TESTING DURING CONSTRUCTION.
- 8. CONTRACTOR SHALL PROVIDE PROTECTION OF ANY EXISTING UTILITIES, SURFACE FEATURES AND PAVEMENTS THAT ARE TO REMAIN THROUGHOUT THE DURATION OF PROJECT CONSTRUCTION.
- 9. CLEAR SITE WITHIN LIMIT OF DISTURBANCE AREA, DEMOLISH EXISTING PAVING, CURBING AND FENCING AS REQUIRED, SAWCUT PAVED AREAS AS NEEDED TO MINIMIZE EARTH DISTURBANCE, EXCAVATE TRENCHES FOR PROPOSED SEWER AND STORM CONNECTIONS. DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISCARDED IN ACCORDANCE WITH APPLICABLE CITY, STATE AND FEDERAL REGULATIONS.
- 11. INSTALL NEW SEWERS AS SHOWN ON THE PLANS.
- 12. ROUGH GRADE SUBBASE TO REQUIRED DEPTHS.
- 13. INSTALL STORMWATER MANAGEMENT SYSTEMS (SEE SMP S.O.C. ON THIS SHEET).
- 14. AS SOON AS SLOPES, CHANNEL DITCHES AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED. CESSATION OF ACTIVITY FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.
- 15. CONSTRUCT REMAINING FULL DEPTH PAVEMENT.
- 16. TOPSOIL AND SEED GRASSSED AREAS, INSTALL PLANTS AND TREES.
- 17. SWEEP PAVED AREAS DAILY TO PREVENT TRACKING OF SOIL OFF-SITE.
- 18. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) FOR A FINAL INSPECTION PRIOR TO REMOVAL ON THE E&S BMP'S.
- 19. REMOVE SOIL EROSION MEASURES AFTER SITE HAS BEEN INSPECTED AND STABILIZED.

SUBSURFACE INFILTRATION/RETENTION SMP CONSTRUCTION SEQUENCE:

- SMP-1**
- 1. AT LEAST 3 DAYS PRIOR TO THE INSTALLATION OF THE STORMWATER MANAGEMENT BASINS, THE INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) MUST BE CALLED TO SCHEDULE AN INSPECTION.
- 2. STAKE OUT UNDERGROUND STORMWATER INFILTRATION BASIN SMP-1 LOCATION AND PROTECT THE AREA FROM COMPACTION DURING CONSTRUCTION. INSTALL COMPOST FILTER SOCK ON THE SITE SUCH THAT CONSTRUCTION RUNOFF IS DIRECTED AWAY FROM THE CONSTRUCTION CERTIFICATION PACKAGE PRIOR TO THE NEXT STEP.
- 3. EXCAVATE SUBSURFACE INFILTRATION AREA TO PROPOSED DEPTH AS SHOWN ON THE PLANS, PROVIDING APPROPRIATE SHORING AND SHEETING FOR DEEP EXCAVATIONS.
- 4. UPON ACHIEVING FINAL SUBGRADE ELEVATIONS, A MINIMUM OF TWO INFILTRATION TESTS MUST BE PERFORMED WITHIN THE FOOTPRINT OF SMP-1. THE PROCEDURE USED MUST BE THE DOUBLE-RING INFILTROMETER TEST. SOIL SAMPLING AND CHARACTERIZATION ARE ALSO REQUIRED, AND ALL MUST BE IN COMPLIANCE WITH THE CURRENT PHILADELPHIA STORMWATER MANAGEMENT GUIDANCE MANUAL. PRIOR TO INFILTRATION TESTING, PWD MUST BE CALLED (215-685-6387) TO SCHEDULE AN OBSERVATION. THE ENGINEER MUST PROVIDE A SIGNED AND SEALED GEOTECHNICAL REPORT, ALL INFORMATION, ALONG WITH A PCSMP FIELD CHANGE SUBMISSION PACKAGE, MUST BE SUBMITTED TO PWD FOR REVIEW AND APPROVAL BEFORE PROCEEDING WITH CONSTRUCTION OF THE SMP AND ASSOCIATED PIPING AND STRUCTURES. ONCE THE PCSMP FIELD CHANGE IS REVIEWED AND APPROVED, PROCEED WITH INSTALLATION OF THE SMP PURSUANT TO THE APPROVED PCSMP FIELD CHANGE PLAN SET.
- 5. MANUALLY GRADE AND SCARIFY THE EXISTING SOIL SURFACE AT THE BOTTOM OF THE SUBSURFACE INFILTRATION BASIN. THE BOTTOM OF THE BASIN SHALL BE AT A LEVEL EQUAL TO THE EXISTING SUBGRADE SHALL NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT. EXISTING SUBGRADE MUST NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT PRIOR TO PLACEMENT OF GEOTEXTILE AND STONE BED. THE USE OF MACHINERY TO LOAD STONE FROM OUTSIDE OF THE INFILTRATION BED FOOTPRINT IS RECOMMENDED. STONE SHOULD BE CAREFULLY PLACED, NOT DUMPED, IN THE INFILTRATION BED. IF IT IS ESSENTIAL THAT EQUIPMENT BE USED IN THE EXCAVATED AREA, MANUFACTURER'S STANDARDS AND RECOMMENDATIONS, PREVENT RUNOFF AND SEDIMENT FROM ENTERING THE INFILTRATION BED DURING THE PLACEMENT OF THE GEOTEXTILE. SECURE GEOTEXTILE AT LEAST FOUR FEET OUTSIDE BED. PHOTOGRAPH BOTTOM OF BASIN AFTER INSTALLATION OF GEOTEXTILE IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE PRIOR TO THE NEXT STEP.
- 6. MEASURE THE LEVEL BOTTOM ELEVATION AND THE BOTTOM FOOTPRINT AREA (LENGTHS AND WIDTHS) IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE.
- 7. PHOTOGRAPH THE BOTTOM OF THE SUBSURFACE INFILTRATION BASIN, SHOWING THE LEVEL, SCARIFIED, AND NON-COMPACTED BOTTOM IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE PRIOR TO THE NEXT STEP.
- 8. IMMEDIATELY AFTER APPROVAL OF THE SUBGRADE, REMOVE ANY ACCUMULATED SEDIMENT OR DEBRIS THAT HAS OCCURRED. HAND-RAKE BOTTOM OF THE SUBSURFACE BASIN TO SCARIFY THE SURFACE.
- 9. PLACE GEOTEXTILE FILTER FABRIC IMMEDIATELY UPON COMPLETION OF THE PREVIOUS STEP, ENSURING ADEQUATE OVERLAP OF 16 INCHES AND IN ACCORDANCE WITH THE MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. PREVENT RUNOFF AND SEDIMENT FROM ENTERING THE INFILTRATION BED DURING THE PLACEMENT OF THE GEOTEXTILE. SECURE GEOTEXTILE AT LEAST FOUR FEET OUTSIDE BED. PHOTOGRAPH BOTTOM OF BASIN AFTER INSTALLATION OF GEOTEXTILE IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE PRIOR TO THE NEXT STEP.
- 10. PLACE A LAYER OF CLEAN-WASHED STONE IN SIX- TO EIGHT-IN LIFTS ACROSS THE BASIN BOTTOM. LIGHTLY COMPACT EACH LAYER WITH EQUIPMENT, KEEPING EQUIPMENT MOVEMENT OVER STORAGE BED SUBGRADES TO A MINIMUM. ENSURE BASIN DIMENSIONS PRIOR TO MOVING TO THE NEXT STEP. ALL STONE THAT MAKES UP THE INFILTRATION SMP MUST REMAIN FREE OF SEDIMENT; IF SEDIMENT ENTERS THE STONE, THE CONTRACTOR MAY BE REQUIRED TO REMOVE THE SEDIMENT AND REPLACE WITH CLEAN WASHED STONE.
- 11. INSTALL STORMWATER STORAGE PRODUCTS AND OBSERVATION WELL IN ACCORDANCE WITH THE MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. PHOTOGRAPH, MEASURE, AND CONFIRM THAT SURFACE AREA AND INVERTS OF STORMWATER STORAGE PRODUCTS IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE. PHOTOGRAPH THE INSTALLATION OF THE STORMWATER STORAGE PRODUCTS, SHOWING STONE FILLED AROUND THEM IN ACCORDANCE WITH THE PLANS AND THE CONSTRUCTION CERTIFICATION PACKAGE PRIOR TO THE NEXT STEP.
- 12. INSTALL ALL PROPOSED CONNECTION PORTS FOR CONNECTIONS TO INCOMING PIPES AND OUTLET PIPES. CONFIRM ALL INVERTS IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE. INSTALL TEMPORARY PROTECTION FOR ALL CONNECTIONS INTO THE UNDERGROUND INFILTRATION BASIN TO ENSURE THAT NO SEDIMENT ENTERS THE SYSTEM.
- 13. INSTALL OUTLET CONTROL STRUCTURE OS-1 IN ACCORDANCE WITH THE PLAN DRAWINGS. MEASURE OUTLET STRUCTURE BOTTOM INVERT, PIPE INVERTS AND SIZES, WEIR INVERTS AND LENGTHS, ORIFICE INVERTS AND LENGTHS, AND RISER INVERTS IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE. PHOTOGRAPH OUTLET CONTROL STRUCTURE, INCLUDING INTERNAL WEIR, OUTLET PIPS (WITH TAPE MEASURE FOR REFERENCE), AND HOOD/TRAP (INCLUDING GROUTING) IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE PRIOR TO THE NEXT STEP.
- 14. INSTALL REMAINING CLEAN-WASHED STONE IN SIX- TO EIGHT-FOOT LIFTS AND LIGHTLY COMPACT TO THE SUBSURFACE BASIN TOP ELEVATION AS SHOWN ON THE PLANS. WRAP NON-WOVEN GEOTEXTILE ON TOP OF STONE STORAGE AS INDICATED ON THE PLANS, ENSURING ADEQUATE OVERLAP OF 16 INCHES. PHOTOGRAPH, MEASURE, AND CONFIRM THE TOP OF STONE ELEVATION, SURFACE AREA, AND VOLUME IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE PRIOR TO THE NEXT STEP.
- 15. BACKFILL TO FINISHED GRADE. ENSURE BACKFILL IS PROPERLY COMPACTED, USING SUITABLE EQUIPMENT TO AVOID EXCESS COMPACTION IN ACCORDANCE WITH SPECIFICATIONS. ENSURE BACKFILL PROCESS DOES NOT DISRUPT STORMWATER STORAGE PRODUCT OR STONE PLACEMENT AND CONFIGURATION.
- 16. INSTALL FENCING OR OTHER PROTECTIVE MEASURES TO PREVENT CONSTRUCTION VEHICLES FROM TRAVERSING THE UNDERGROUND INFILTRATION BASIN PRIOR TO FINAL SURFACE IS COMPLETED.

SMP-1-ALT

- 1. INSTALLATION OF SMP-1-ALT SHALL PROCEED AT THE DIRECTION OF THE ENGINEER.
- 2. AT LEAST 3 DAYS PRIOR TO THE INSTALLATION OF THE STORMWATER MANAGEMENT BASINS, THE INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) MUST BE CALLED TO SCHEDULE AN INSPECTION.
- 3. STAKE OUT UNDERGROUND STORMWATER DETENTION BASIN SMP-1-ALT LOCATION AND PROTECT THE AREA FROM COMPACTION DURING CONSTRUCTION. INSTALL COMPOST FILTER SOCK ON THE SITE SUCH THAT CONSTRUCTION RUNOFF IS DIRECTED AWAY FROM THE PROPOSED SUBSURFACE DETENTION SMP. PHOTOGRAPH THAT THE BASIN LOCATION IS STAKED AND SEDIMENT CONTROL DEVICES ARE IN PLACE IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE PRIOR TO THE NEXT STEP.
- 4. EXCAVATE SUBSURFACE DETENTION AREA TO PROPOSED DEPTH AS SHOWN ON THE PLANS, PROVIDING APPROPRIATE SHORING AND SHEETING FOR DEEP EXCAVATIONS.
- 5. MANUALLY GRADE AND SCARIFY THE EXISTING SOIL SURFACE AT THE BOTTOM OF THE SUBSURFACE DETENTION BASIN. THE BOTTOM OF THE BASIN SHALL BE AT A LEVEL GRADE. THE EXISTING SUBGRADE SHALL NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT.
- 6. MEASURE THE LEVEL BOTTOM ELEVATION AND THE BOTTOM FOOTPRINT AREA (LENGTHS AND WIDTHS) IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE.
- 7. PHOTOGRAPH THE BOTTOM OF THE SUBSURFACE DETENTION BASIN, SHOWING THE LEVEL, SCARIFIED, AND NON-COMPACTED BOTTOM IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE PRIOR TO THE NEXT STEP.
- 8. IMMEDIATELY AFTER APPROVAL OF THE SUBGRADE, REMOVE ANY ACCUMULATED SEDIMENT OR DEBRIS THAT HAS OCCURRED. HAND-RAKE BOTTOM OF THE SUBSURFACE BASIN TO SCARIFY THE SURFACE.
- 9. PLACE GEOTEXTILE FILTER FABRIC IMMEDIATELY UPON COMPLETION OF THE PREVIOUS STEP, ENSURING ADEQUATE OVERLAP OF 16 INCHES AND IN ACCORDANCE WITH THE MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. PREVENT RUNOFF AND SEDIMENT FROM ENTERING THE DETENTION BED DURING THE PLACEMENT OF THE GEOTEXTILE. SECURE GEOTEXTILE AT LEAST FOUR FEET OUTSIDE BED. PHOTOGRAPH BOTTOM OF BASIN AFTER INSTALLATION OF GEOTEXTILE IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE PRIOR TO THE NEXT STEP.
- 10. PLACE A LAYER OF CLEAN-WASHED STONE IN SIX- TO EIGHT-IN LIFTS ACROSS THE BASIN BOTTOM AND LIGHTLY COMPACT. ENSURE BASIN DIMENSIONS PRIOR TO MOVING TO THE NEXT STEP.
- 11. INSTALL PERFORATED UNDERDRAIN PIPE IN ACCORDANCE WITH THE PLANS.
- 12. INSTALL STORMWATER STORAGE PRODUCTS AND OBSERVATION WELL IN ACCORDANCE WITH THE MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. PHOTOGRAPH, MEASURE, AND CONFIRM THAT SURFACE AREA AND INVERTS OF STORMWATER STORAGE PRODUCTS IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE. PHOTOGRAPH THE INSTALLATION OF THE STORMWATER STORAGE PRODUCTS, SHOWING STONE FILLED AROUND THEM IN ACCORDANCE WITH THE PLANS AND THE CONSTRUCTION CERTIFICATION PACKAGE PRIOR TO THE NEXT STEP.
- 13. INSTALL ALL PROPOSED CONNECTION PORTS FOR CONNECTIONS TO INCOMING PIPES AND OUTLET PIPES. CONFIRM ALL INVERTS IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE. INSTALL TEMPORARY PROTECTION FOR ALL CONNECTIONS INTO THE UNDERGROUND DETENTION BASIN TO ENSURE THAT NO SEDIMENT ENTERS THE SYSTEM.
- 14. INSTALL OUTLET CONTROL STRUCTURE OS-1-ALT IN ACCORDANCE WITH THE PLAN DRAWINGS. MEASURE OUTLET STRUCTURE BOTTOM INVERT, PIPE INVERTS AND SIZES, WEIR INVERTS AND LENGTHS, ORIFICE INVERTS AND LENGTHS, AND RISER INVERTS IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE. PHOTOGRAPH OUTLET CONTROL STRUCTURE, INCLUDING INTERNAL WEIR, OUTLET PIPS (WITH TAPE MEASURE FOR REFERENCE), AND HOOD/TRAP (INCLUDING GROUTING) IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE PRIOR TO THE NEXT STEP.
- 15. PREPARE SUBGRADE FOR PROPOSED MEDIA FILTER MF-1-ALT AND ENSURE THAT THE PROPER COMPACTION HAS BEEN MET IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. PLACE STONE SUBBASE IN SIX-INCH LIFTS.
- 16. INSTALL MEDIA FILTER ON SOLID SUBGRADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 17. CONNECT PROPOSED UNDERDRAIN TO THE MEDIA FILTER WITH A SOLID PIPE. INSTALL SOLID PIPE CONNECTION BETWEEN THE MEDIA FILTER AND THE OUTLET STRUCTURE AS SHOWN ON THE PLANS.
- 18. BACKFILL AROUND MEDIA FILTER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 19. MEDIA FILTER IS TO BE ACTIVATED ONCE THE SITE HAS BEEN STABILIZED AND ALL PROPOSED PAVEMENTS AND LANDSCAPING HAS BEEN INSTALLED.
- 20. INSTALL REMAINING CLEAN-WASHED STONE IN SIX- TO EIGHT-FOOT LIFTS AND LIGHTLY COMPACT TO THE SUBSURFACE BASIN TOP ELEVATION AS SHOWN ON THE PLANS. WRAP NON-WOVEN GEOTEXTILE ON TOP OF STONE STORAGE AS INDICATED ON THE PLANS, ENSURING ADEQUATE OVERLAP OF 16 INCHES. PHOTOGRAPH, MEASURE, AND CONFIRM THE TOP OF STONE ELEVATION, SURFACE AREA, AND VOLUME IN ACCORDANCE WITH THE CONSTRUCTION CERTIFICATION PACKAGE PRIOR TO THE NEXT STEP.
- 21. BACKFILL TO FINISHED GRADE. ENSURE BACKFILL IS PROPERLY COMPACTED IN ACCORDANCE WITH SPECIFICATIONS. ENSURE BACKFILL PROCESS DOES NOT DISRUPT STORMWATER STORAGE PRODUCT OR STONE PLACEMENT AND CONFIGURATION.
- 22. INSTALL FENCING OR OTHER PROTECTIVE MEASURES TO PREVENT CONSTRUCTION VEHICLES FROM TRAVERSING THE UNDERGROUND DETENTION BASIN PRIOR TO FINAL SURFACE IS COMPLETED.

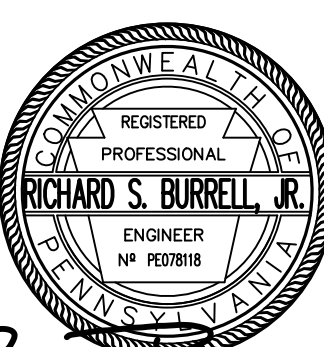
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REVISIONS

ISSUE	DATE	REVISIONS
A	02.08.2024	REVISED PER PWD PCSMP REVIEW COMMENTS
1	02.29.2024	ADDENDUM #1



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DRAWING TITLE
**EROSION AND
SEDIMENT CONTROL
NOTES**

RSE PROJECT NO.	2471-02	DRAWING NO.	CE-7.1	
DATE	01.19.2024			
SCALE	AS NOTED			
DRAWN BY	KSE			
CHECKED BY	RSE			