

Request for Proposals (RFP)

Parkside-Evans Soccer Field Construction 5300 Parkside Avenue September 12, 2018

Table of Contents

Table of Contents	1
Application Process	2
Project Description/Scope of Work	4
Proposal Submission Requirements	4
Evaluation & Selection	5
Events of Disqualification or Default	5
Declarations and Other Information	6

Attachments:

- A. Division 0 (Bidding and Contract Requirements)
- B. Division 1 (General Requirements)
- C. Division 2 (Technical Specifications)
- D. Test Pit Summary
- E. Philadelphia Tax Status Certification and Conflict of Interest Form
- F. Campaign Contribution Disclosure Forms
- G. PRA Insurance Requirements
- H. Rebuild Project Statement
- I. City of Philadelphia Questionnaire & Financial Statement for Qualifying Bidders

Application Process

On behalf of the City of Philadelphia ("City"), the Philadelphia Redevelopment Authority ("PRA") is pleased to issue this Request for Proposals ("RFP") for qualified prime contractors (each, an "Applicant" and together, the "Applicants") for the construction of a new soccer field located at Parkside-Evans Recreation Center, 5300 Parkside Ave, Philadelphia, PA (the "Project"). The Project includes the demolition of existing trees, earthwork, site grading, drainage, concrete paving, fencing, retaining wall erection, and landscape planting for a soccer field. This project is part of the City's Rebuilding Community Infrastructure Program ("Rebuild").

Submission Deadline

Applicants must submit a response/proposal (a "Response") no later than **October 12, 2018** at 3:00 PM; absolutely no Response will be accepted after that time.

Mandatory Pre-Bid Meeting

All Applicants must attend the mandatory pre-bid meeting at Parkside-Evans Field, 5300 Parkside Avenue at 10:00 A.M. on **September 27, 2018.**

The names and contact information for all attendees at the pre-bid meeting will be posted on PRA's website as public information within a few days of the pre-bid meeting.

Questions/Requests for Additional Information

PRA will accept questions and requests for additional information directed in writing to RFP@pra.phila.gov from **September 17, 2018** through 3 PM on **October 4, 2018**. Questions, responses, and additional information will be posted on the PRA Website within 3 business days of October 4, 2018.

Related Parties

Applicants may submit only one Response to this RFP. Individuals or businesses that are legally related to each other or to a common entity may not submit separate Responses. The PRA and City, in their sole and absolute discretion, retain the right to reject any Response where:

- 1. Applicants or principals of Applicants are substantially similar or substantially related parties; or;
- 2. The PRA and City have determined that the Applicant has violated these conditions or the spirit of these conditions.

Submission Process

Responses will <u>only</u> be accepted in either of the following:

- 1. Online Submission via the electronic portal on PRA's website (http://www.philadelphiaredevelopmentauthority.org/); or
- 2. Hard Copy Submission Submit 3 original copies of the Response and one electronic copy on a USB Flash Drive to the PRA via hand delivery or registered mail. Files on the USB Flash Drive may only be in Microsoft Word or Adobe PDF. Applicants may hand deliver or send their Response via registered mail to:

Robert LaBrum
Director, Design & Construction
Philadelphia Redevelopment Authority
1234 Market Street, 16th Floor
Philadelphia, PA 19107

Disqualification

Responses will be disqualified if:

- 1. They are submitted after the specified deadline;
- 2. They are submitted by some means other than the two formats listed above. For electronic Responses, the PRA website portal is the only means that will be accepted. Responses sent via email, Dropbox or other electronic venues will be disqualified;
- 3. If the Response package is incomplete.

Bid Price

The PRA will award this Project to the Response determined to be the most responsive based on the criteria explained below. Bid price is one of these criteria, though the Project will not necessarily be awarded to the lowest bidder. Bidders must complete and submit the Construction Bid Proposal Form located in Attachment A, Division O (Bidding and Contract Requirements).

Bid Bonds

Bidders must complete and submit the Bid Bond Form located in Attachment A, Division 0 (Bidding and Contract Requirements).

Schedule

The timeline for this opportunity is as follows:

Event	Date	
RFP posted	September 12, 2018	
Pre-Bid Meeting/Intention to Submit due	September 27, 2018	
Questions and requests for additional	October 4, 2018	
information due	October 4, 2018	
Responses due	October 12, 2018 at 3PM	
Respondent selected (Estimate)	October 19, 2018	

PRA reserves the right, in its sole discretion, to alter this schedule as it deems necessary or appropriate.

Project Description/Scope of Work

The PRA is seeking Applicants for the creation of a new soccer field located at Parkside-Evans Recreation Center, 5300 Parkside Ave, Philadelphia, PA. The Project includes the demolition of existing trees, earthwork, site grading, drainage, concrete paving, fencing, retaining wall erection, and landscape planting for a soccer field.

For completed scope of work please refer to the Project Drawings and the Summary of Work in Attachment B, Division 1 (General Requirements)

Response Submission Requirements

- 1. **Construction Bid Proposal Form** located in Attachment A, Division 0 (Bidding and Contract Requirements).
- 2. Bid Bond located in Attachment A, Division 0 (Bidding and Contract Requirements).
- 3. **Experience (Not to exceed two pages)**: Describe past experiences with providing similar projects. Please cite projects performed for the City of Philadelphia or other public/governmental agencies. Please include examples of projects that were completed on time and on budget.
- 4. **Approach to Project Delivery (Not to exceed one page):** Describe your approach to carrying out the scope of work on time/budget, and strategies that make your firm qualified to best perform these services. Please include a detailed Project timeline.
- 5. Economic Inclusion (Not to exceed one page). Provide a narrative describing Applicant's past performance in engaging certified Minority Business Enterprises ("MBE"), Woman Business Enterprises ("WBE"), and/or Disabled Business Enterprises ("DSBE") in subcontracting and in procuring goods and services; in addition, describe the Applicant's past performance in hiring local, diverse workforce, both in-house and with subcontractors. If Applicant is a Certified MBE, WBE or DBE; please submit information to confirm Certification as part of bid proposal. Please include contract and workforce participation goals and achievements on previous projects. Provide a plan for meeting contract and workforce participation goals (subcontractors, etc.) for this Project.
- 6. **Declarations and Other Information.** Response must also include the completed forms identified in the Declarations and Other Information below.

Evaluation & Selection

PRA intends to award this Project to the Applicant that best demonstrates the level of experience, skill and competence required to perform the services called for in this RFP in the most efficient, cost-effective, and professional manner and in a manner, that is consistent with the contract and workforce participation goals of the Rebuild initiative. The PRA will initially review the Responses to determine compliance with the Response Submission Requirements. Only Responses that comply with these requirements will be considered for evaluation. If no Response meets these requirements, the PRA may allow all Applicants to supplement their Responses to conform to these requirements.

PRA will evaluate Applicants based on the following factors:

- 1. Complete application and eligibility of applicant including compliance with all requirements listed in this RFP;
- 2. Appropriateness of firm for the scope of work, and ability to carry out the work in a high-quality standard on time and budget;
- 3. Prior experience, including competence and proven track record working with City of Philadelphia and/or other public agencies;
- 4. Track record of economic inclusion in contracting and workforce;
- 5. Bid price;
- 6. Any other factors the PRA considers relevant to the evaluation of the responses; and
- 7. Financial capability

Events of Disqualification or Default

Subsequent to the selection of an Applicant, and before execution of the Contract, the PRA may treat any of the following as an event of disqualification or default:

- 1. Unilateral withdrawal by the selected Applicant;
- 2. Failure to proceed substantially in accordance with the Response as submitted;
- 3. Failure by the Applicant for any reason whatsoever to timely execute the Contract when tendered;
- 4. Material misrepresentation, omission, or inaccuracy contained in any document submitted either as part of the Response, or subsequent thereto. For the purposes of this section, the PRA places particular importance on the information required by the Applicant in the City of Philadelphia Questionnaire & Financial Statement for Qualifying Bidders and the Campaign Contribution Disclosure Forms;
- 5. Failure to provide in a timely manner the additional material required after selection throughout the PRA selection process.

Upon the happening of an event of disqualification or default by the selected Applicant, PRA shall have the right, at its election, to:

- 1. Rescind its selection; or
- 2. Declare null and void a Contract that may already have been executed.



Declarations and Other Information

Economic Opportunity Plan

This Project will require the selected Applicant to execute an Economic Opportunity Plan ("EOP"), committing to exhaust its best and good faith efforts to reach goals for diverse business inclusion and to employ an appropriate diverse workforce. The specific goals for this Project will be determined in consultation with the City's Office of Economic Opportunity. Adopted as part of City Council Resolution No. 180124 (2018), was a Rebuild Master Economic Opportunity Plan, which establishes certain goals for contracting and diverse employment for the Rebuild program. The Master EOP is included in the Rebuild Project Statement, which is Attachment H of this RFP:

II. Rebuild Diversity and Inclusion Goals

A. Participation Goals for Diverse Business Inclusion

In order to achieve Diverse Business Inclusion in Rebuild, each contract between PAID and Project User will require an EOP containing participation ranges for M/W/DSBEs. Goals for Rebuild are informed by the City's most current Annual Disparity Study as follows:

Professional services contracts: 25-30% minority and 15-20% women

Construction contracts: 30-35% minority and 15-20% women

EOPs will contain individualized participation ranges for both MBEs and WBEs according to project scope and dollar value.

B. Employment Goals for Diverse Workforce

Project User agrees to exhaust its Best and Good Faith Efforts to employ an appropriately diverse workforce which will include minority persons and females at all tiers of employment and management. Project User shall also cause its Participants to employ an appropriately diverse workforce. For this Plan, an appropriately diverse workforce is one which reflects the local availability and historic utilization of Philadelphia residents, and also recognizes underutilization of diverse workers across all trades. The following are expressed as hourly project goals:

Total minority journeyperson hours 45% (African American journeypersons 27%, Hispanic journeypersons 15%, and Asian journeypersons 3%); and of the foregoing total minority workforce hours, 60% laborer hours and 40% skilled hours.

Total women journeyperson hours 5%, skilled and laborer.

Total minority apprentice workforce hours 50%, skilled and laborer and total women apprentice workforce hours 5%, skilled and laborer.

Local construction workforce: 50-60%.

Tax Clearance and Conflict of Interest Form

Applicants, upon request of the PRA, must provide evidence satisfactory to the PRA that all municipal taxes, including business taxes, real estate, school, water and sewer charges, if applicable, are current for both the individual Applicant and the Applicant's firm, and that neither is currently indebted to the City; will at any time during the term of the contract be indebted to the City, for or on account of any delinquent taxes, liens, judgments, fees or other debts for which no written agreement or payment plan satisfactory to the City has been established. Please complete the Philadelphia Tax Status Certification and Conflict of Interest form (Attachment E) and submit it with your Response.

Compliant with City of Philadelphia Revenue Department

Bidders must have a current City of Philadelphia Business Activity License and have a valid contractor's license.

Campaign Contribution Disclosure Forms

Please complete the applicable disclosure forms (Attachment F) and submit with your proposal.

City of Philadelphia Questionnaire & Financial Statement for Qualifying Bidders

Please complete the applicable questionnaire and financial statements (Attachment I) and submit with your proposal.

Insurance Requirements

Please submit a certificate of insurance evidencing the required coverages as outlined in Attachment G with your Response. If, for any reason, you cannot comply with the insurance requirements, please provide the reasons for your inability to do so and the PRA will consider any deviations from the insurance requirements on a case-by-case basis.

By submitting a Response to this RFP, an Applicant affirmatively acknowledges: (i) its acceptance of the terms and conditions of this RFP; (ii) the PRA may exercise in its sole discretion the following rights; and (iii) the PRA may exercise the following rights at any time and without notice to any Applicant:

- 1. to reject any and all Responses;
- 2. to supplement, amend, substitute, modify or re-issue the RFP with terms and conditions materially different from those set forth here;
- 3. to cancel this RFP with or without issuing another RFP;
- 4. to extend the time period for responding to this RFP;
- 5. to solicit new Responses;
- 6. to conduct personal interviews with any Applicant to assess compliance with the selection criteria;
- 7. to request additional material, clarification, confirmation or modification of any information in any and all Responses;
- 8. to negotiate any aspect of a Response, including price;
- 9. to terminate negotiations regarding any and all Responses at any time;
- 10. to expressly waive any defect or technicality in any Response;
- 11. to rescind a selection prior to Contract execution if the PRA determines that the Response does not conform to the specifications of this RFP;

- 12. to rescind a selection prior to Contract execution if the PRA determines that the specifications contained in this RFP are not in conformity with law or that the process in selection of an Applicant or Response was not in conformity with law or with the legal obligations of the PRA;
- 13. in the event a Contract is awarded, the successful Applicant or Applicants shall procure and maintain during the life of the Contract liability insurance in an amount to be determined prior to the award of the Contract;
- 14. in the event a Contract is awarded, all Applicants agree to perform their services as an independent contractor and not as an employee or agent of the PRA;
- 15. in the event a Contract is awarded, all Applicants agree that no portion of performance of the contract shall be subcontracted without the prior written approval of the PRA; and
- 16. each Applicant agrees to indemnify, protect and hold harmless the PRA from any and all losses, injuries, expenses, demands and claims against the PRA or the City sustained or alleged to have been sustained in connection with or resulting from (i) the submission of the Applicant's Response; (ii) the delivery by the Applicant to the PRA of any other documents or information; and (iii) any other conduct undertaken by the Applicant in furtherance of or in relation to the Applicant's proposal. Each Applicant agrees that its duty to indemnify and hold harmless shall not be limited to the terms of any liability insurance, if any, required under this RFP or subsequent contract.

The PRA is under no obligation whatsoever to Applicant as a result of this RFP. The RFP does not represent any commitment on the part of the PRA to Applicant or the Project. In no event shall the PRA be responsible for any cost, expense or fee incurred by or on behalf of Applicant in connection with the RFP. Applicant shall be solely responsible for all such costs, expenses and fees.

NOTICE: The PRA is subject to the Pennsylvania Right to Know Law. Any information provided in your Response to this may be subject to disclosure to the public. Documents provided in response to this RFP may also be required to be disclosed by applicable law, subpoena, and/or court order.





RFP - Parkside Soccer

	List of Interested Parties										
								l Attended			
							That	Mandatory			
	Name	Company	Address	Phone	Email	Sector	Apply	Prebid			
			1309 Harmony St								
1	STACY GIORDANO STACY GIORDANO	JPC Group, Inc.	Philadelphia, PA 19146	(215) 243-9660	estimating@jpcgroupinc.com	Contractor		Yes			
			1400 Cressman Rd								
_			PO Box 1209			6 1					
2	Paul Gaffney	Marino Corporation	Skippack, PA 19474	(610) 584-1800	pgaffney@marinocorp.com	Heavy/Highway		Yes			
			2929 Arch Street				MBE				
			Cira Centre 1700				WBE				
3	Pat Sanford	Alexander Perry Inc	Philadelphia, PA 19104	(215) 948-8148	psanford@alexanderperryinc.com	Construction Management	DBE	Yes			
							MBE				
			1943 Poplar Street				WBE				
4	Dianna Montague	Iron Lady Enterprises, Inc.	Phila, PA 19130	(267) 357-2611	dianna.montague@ironladyenterprises.com	Construction	DBE	Yes			
			565 E St Andrews Dr								
5	Frances Gessler	Gessler Construction Co Inc	Media, PA 19063	(610) 497-2480	gesslerconstruction@comcast.net		WBE	Yes			
			10059 Sandmeyer Lane								
6	Andrew Seravalli	Seravalli, Inc.	Philadelphia, PA 19116	(215) 969-6500	andrew.seravalli@seravalli.com	Construction		Yes			
		Bittenbender Construction, LP - we will be attending	5 N. Columbus Blvd, Pier 5								
7	Sean Doerrman	the pre-bid meeting on Thursday 9/27.	Philadelphia, PA 19106	(215) 925-8900	bids@bittenbenderconstruction.com		WBE	Yes			
			2819 N Lambert sty								
8	Myron Smith	Incredible Finishes	Philadelphia , PA 19132	(267) 602-7862	Myronksmith87@gmail.com	Construction		Yes			
							MBE				
			1500 Walnut St Suite 700-21a			Post Constructions, Demolition, Site	WBE				
9	Shakina Rush	Kingdom Builders & Industrial Maintenance	Phila, PA 19102	(484) 328-2240	Shakinar@kingdombuildersindustrial.com	Work	DBE	Yes			
			1400 Cressman Rd								
			PO Box 1209								
10	Richard Marino	Marino Corporation	Skippack, PA 19474	(610) 584-1800	ricmarino@marinocorp.com	Heavy/Highway		Yes			
			428 E. Magnolia Ave Aldan,								
11	Ryan Griffith	RR Soccer Academy	PA 19018	(267) 738-7057	ryangriffith@rrsocceracademy.com	Youth Soccer		Yes			
			1617 JFK Blvd, Suite 428								
12	Kevin Selger	Gilmore & Associates	Philadelphia, PA 19103	(215) 687-4246	kselger@gilmore-assoc.com	Civil Engineering firm		Yes			
13	Donahue Bailey	Atrium International Inc.	PO Box 653 Blue Bell, PA 19422	(610) 637-8812	donahuebailey@msn.com		MBE	Yes			
			PO Box 56024 Philadelphia,								
14	Shirlesa Baido	Stella and Sterling Brickhaus Group	PA 19130	(267) 978-5068	sbaido8@gmail.com			Yes			
			228 Blackwood/Barnsboro Rd								
15	Alexandra Petrongolo	JPC Group, Inc.	Blackwood, NJ	(267) 716-1111	joep2@jpcgroupinc.com	construction contractor		Yes			
	_		5 N Columbus Boulevard								
16	Galen Plona	Bittenbender Construction, LP	Philadelphia, PA 19106	(215) 925-8900	gplona@bittenbenderconstruction.com	General contractor	WBE	Yes			
		·	565 E St Andrews Dr	ľ							
17	Bob Leboffe	Gessler Construction Co Inc	Media, PA 19063	(267) 334-2067	gesslerconstruction@comcast.net	construction contractor	WBE	Yes			
			129 E Walnut Lane Lot 3,	1 /							
18	Angel Hackney	Morgan Construction Management	Philadelphia, PA 19144	(267) 417-3535	ahacknev@morgancml.com	Construction Management	MWBE	Yes			
	1 0			., . ,	10.000	1	,	,			

1. Drawing L-6.1 shows detail 3 for a 4' railing with sleeves at the retaining wall. Is this railing required? It is not shown on the site plan L-2.0 or in detail 7/L-6.1.

Yes. This can be a 4 foot high chain link fence to match the other proposed chain link fencing on the plan. Chain link fabric shall be mounted on the side away from back of wall.

2. Please confirm a concrete footing as depicted in detail 5/L-6.1 is not required and we are to follow the 12" deep stone detail instead.

A concrete footing is not required, compacted 2A modified stone is acceptable.

3. What erosion control materials, if any, are required? If required, please provide quantities for bidding purposes.

See Erosion and Sediment Control Plan and Detail sheets that are part of this response.

4. Spec section 32 92 00 refers to hydroseeding, sod, turf, etc. The plans have a note for tall fescue seed. Please confirm seed is all that is required for the 83,500 SF lawn.

Hydroseed turfgrass seed as specified in section 32 92 00.

5. Spec section 31 10 00 refers to stripping the site 12" and re-spreading and compacting it in an 8" thickness. Spec section 31 22 10 refers to 6" for seeded lawn. Detail 5/L-6.0 shows 6" screened topsoil. Is 6" of imported topsoil required for all 83,500 SF of new lawn or are we to amend existing material? Is 6" required or 8"?

There is little to no topsoil on site, contractor to assume import of 6 inches of new, screened topsoil to meet Section 31 22 10. Subgrade to be prepared as per Section 31 20 10.

6. Detail 2/L-6.1 shows 9" of low permeability soil in the swale area. Is this required? If so, what areas are to receive this type of soil?

Yes, low permeability soil is required in the swale behind the new retaining wall, per manufacturers requirements.

7. Are we to stripe the soccer field?

Yes.

8. Please confirm no subgrade preparation is required for the soccer field such as stone, geotextile, geogrid, etc.

Soccer field area shall be rough graded to elevation and compacted as specified in Section 31 20 10, in preparation for topsoil placement.

9. Is temporary fence around the site perimeter required?

Yes

10. Although listed on the cover sheet, there are no Erosion and Sedimentation Control drawings provided in the plan set. Please provide these drawings.

Drawings have been provided with this response package.

11. The details on Sheet L-6.01 show a fence along the high side of the retaining wall. The plans show the fence stopping at each end of the wall. Are we including fence on top of the wall in our bid?

The fence extends beyond the wall as shown on typical section 2/L-6.1

12. Please confirm there is no Allowance #2.

There is no Allowance #2 for the Project. Please disregard. Do not include any pricing.

13. Spec section 12 93 00 refers to various site furnishings that are not shown on the drawings, which, if any, of these materials are required?

Section 129300 was included as a general specification. There are no site furnishing for the Project.

14. Spec 1120-1 1.4 B refers to work that is not applicable for this project. Please confirm if any of this work is required.

This work is not applicable to the Project.

15. The RFP indicates on Page 6 that "specific goals for this project will be determined in consultation with the City's Office of Economic Opportunity." Have these goals been determined? If so, what are they?

Please refer to Attachment H (Rebuild Statement) for the preferred OEO Goals

16. If no MBE/WBE goals have been determined, are we to use the Rebuild Diversity and Inclusion subcontracting goals of 30% MBE and 15% WBE? It states these goals are dependent on the type and size of project.

Please refer to Attachment H (Rebuild Statement) for the preferred OEO Goals

17. In regard to the M/W/DSBE goals, please confirm that only the narrative (#5 Page 4) described in the RFP is due at the time of bid and that specific forms, etc. are to be provided post bid by the apparent low bidder.

The narrative as stated along with your OEO Goals are due with your Proposal.

18. There is an Add Alternate No. 1 listed on the GCON Proposal Form but no reference to this on the drawings or specifications. Please provide plans and details showing the scope of this alternate.

There is no Add Alternate No. 1 for the Project. Please disregard. Do not include any pricing.

19. Specification Section 12 93 00 lists several site furnishings however these are not shown on the drawings. Are these furnishings to be included with our bid? If so, please provide quantities, details and locations.

Section 129300 was included as a general specification. There are no site furnishing for the Project.

20. Please confirm that the 5 page Questionnaire, attachment # I in the Bid Package, can be submitted with the Bid.

Yes

PRECIPITATION EVENTS, AND AFTER ALL PRECIPITATION EVENTS. 5. THE MAXIMUM HEIGHT FOR STOCKPILES AREAS SHALL BE 35 FEET. THE MAXIMUM SIDE SLOPE FOR STOCKPILE AREAS SHALL NOT EXCEED 2:1. 6. THE ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED ON-SITE. A STOCKPILE SHALL BE MAINTAINED ON-SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. IN NO CASE SHALL THE SEDIMENT

BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER. 7. FILTER FABRIC FENCE SHOULD BE INSTALLED AT LEVEL GRADE. BOTH FNDS OF FACH FENCE SECTION SHOULD BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. SUPPORT STAKES SHALL BE SPACED AT A MAXIMUM OF 8 FEET. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FILTER FENCE.

8. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE 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 MAPS AND/OR DETAIL SHEETS. 10.IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY PWD AND PA DEP. 11. UNTIL THE SITE IS STABILIZED, ALL E&S BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL E&S BMPS PRIOR TO ANY ANTICIPATED STORM EVENT, AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT REGRADING RESERVING REMIT CHING AND RENETTING MUST BE PERFORMED

MODIFICATIONS OF THOSE INSTALLED, WILL BE REQUIRED. 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. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. PWD SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. PWD MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION. 13. AT LEAST THREE (3) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM

IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR

INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES. 14. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY PWD AND THE PA DEP PRIOR TO IMPLEMENTATION. 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. GENERAL SITE CLEARING, GRUBBING, AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN. 17.AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST

BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS 18. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO PWD AT THE TIME OF INSPECTION. 19. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN LANDSCAPE AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOOD PLAINS, OR DRAINAGE SWALES, AND IMMEDICATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES. 20.AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF

THREE TO FIVE INCHES -- SIX TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM FOUR INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF TWO INCHES OF TOPSOIL 21.ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

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, SOD, 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. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER. OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF 28.IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN ONE YEAR. MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN ONE YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION 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. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.

30.E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY PWD AND PA DEP. 31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE E&S BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON. 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

SITE STABILIZATION METHODS (TEMPORARY & PERMANENT STABILIZATION)

1. HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE. 2. MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS MUST BE

STRUCTURES AND/OR POLLUTE THE SURFACE WATERS. (WHEN APPLICABLE)

INSTALLED ON ALL SLOPES GREATER THAN 3:1. 3. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN TEMPORARY SEEDING . 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 50-50-50 PER ACRE AND WORK 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.

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 STOCKPILE OR ROUGH GRADING. 3. MULCH WITH SUITABLE FIBROUS GROUND, SHREDDED 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 DISLODGED AS INITIAL OR MODIFIED RATES AS NECESSARY. IF A SLOPE FAILURE OCCURS WHICH REQUIRES REDRESSING, EXCAVATION, OR THE ESTABLISHMENT OF A NEW SLOPE, REPLACE MULCH AS

EMERGENCY SEEDING

DURING CONSTRUCTION, ALL DISTURBED AREAS SHOULD BE SEEDED ACCORDING TO THE FOLLOWING INSTRUCTIONS: SEEDING RECOMMENDATIONS FOR SIX (6) TO TWELVE (12)

1. INSTALL NEEDED WATER-CONTROL MEASURES. 2. PERFORM ALL CULTURAL OPERATIONS AT RIGHT ANGLES TO THE SLOPE.

3. LIME ACCORDING TO SOIL TEST, KNOWLEDGE OF SITE, OR APPLY TWO (2) TONS OF GROUND LIMESTONE PER ACRE.

4. FERTILIZE ACCORDING TO SOIL TEST, KNOWLEDGE OF SITE, OR APPLY 40-40-40, PER

5. INCORPORATE LIME AND FERTILIZER INTO THE TOP (4) INCHES OF SURFACE SOIL BY DISCING OR OTHER SUITABLE MEANS.

6. SEED ONE (1) OF THE FOLLOWING MIXTURES AT THE MOST SUITABLE DATE. APPLY UNIFORMLY WITH A DRILL OR BY BROADCASTING.

A. MARCH 1 TO OCTOBER 1 - TWENTY (20) POUNDS OF ANNUAL RYE OR FIELD BROMEGRASS PER ACRE. B. MARCH 1 TO MAY 30 - TWENTY (20) POUNDS OF ANNUAL RYE GRASS OR FIELD

C. AUGUST 1 TO NOVEMBER 1 - TWENTY (20) POUNDS OF ANNUAL RYE GRASS OR

FIELD BROMEGRASS AND ONE HUNDRED TWELVE (112) POUNDS OF WINTER RYE

BROMEGRASS AND SIXTY-FOUR (64) POUNDS OF SPRING OATS PER ACRE.

7. COVER GRASS AND LEGUME SEEDS ONE-QUARTER (1/4) INCH DEEP WITH CULTIPACKER OR HARROW. COVER RYE OR OATS ABOUT TWO (2) INCHES DEEP.

8. MOW RYE OR OATS JUST BEFORE THEY HEAD OUT IF SLOPE PERMITS.

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.

A. 40% PENNLAWN FINE FESCUE B. 3% RED TOP

THE FOLLOWING SEED MIX SHALL BE USED:

C. 20% 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

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 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 COMPLETED. PROMPTLY REAPPLY MULCH MATERIALS WHICH BECOME DISLODGED OR LOST DUE TO WIND, RAIN, OR OTHER CAUSES AT INITIAL RATES OR AS DIRECTED.

7. LIQUID MULCH BINDERS MAY BE USED TO ANCHOR STRAW MULCHES.

A. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH IN VALLEYS AND AT CRESTS OF BANKS. REMAINDER OF AREAS SHOULD BE UNIFORM 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. CUTBACK 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 SOUARE YARDS, NON-ASPHALTIC EMULSION - NATURAL VEGETABLE GUM BLENDED WITH GELLING AND HARDENING AGENTS (TERRA TACK,AR) AS MANUFACTURED BY GRASS GROWERS COMPANY OR EQUAL. APPLY 25 LBS. PER 1,000 SQUARE YARDS.

NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER 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 THESE PLANS. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR THE PROPER CONSTRUCTION AND STABILIZATION OF PERMANENT CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN

2. THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL PERMANENT 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 BEFORE AND AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE DONE IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS TO THOSE INSTALLED

4. SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN LANDSCAPE AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOOD PLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES. 5. SOIL SEDIMENT REMOVED FROM ANY TEMPORARY CONTROL MEASURE 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 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. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED WILL BE REPLACED

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 PAVED PUBLIC ROADWAYS, WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER WILL NOT BE PERMITTED.

IMMEDIATELY WITH ROCK FILTER OUTLETS.

A. SEDIMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION AFTER EACH

TOPSOIL STOCKPILE NOTES

TOPSOIL SHOULD BE FREE OF DEBRIS, SUCH AS WEEDS AND STONES, AND CONTAINS NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.

2. TOPSOIL AND CLEAN FILL MUST NOT BE MIXED. SEPARATE STOCKPILES FOR EACH SHALL BE DESIGNATED. ADEQUATE SEDIEMNT

CONTROLS MUST BE CONSTRUCTED AROUND THE STOCKPILE AREAS 3. THE CONTRACTOR SHALL LOCATE THE PROPOSED TOPSOIL STOCKPILE AT AN APPROPRIATE LOCATION WHICH DOES NOT CONFLICT WITH THE PROPOSED CONSTRUCTION. THE TOPSOIL STOCKPILE SHALL BE STORED AND PROTECTED FROM EROSION IN ACCORDANCE

4. THE HEIGHT OF THE STOCKPILE SHALL NOT EXCEED 35 FEET AND SHALL NOT HAVE A SLOPE IN EXCESS OF 2:1.

SITE DEWATERING NOTES

1. THE CONTRACTOR SHALL DE-WATER EXCAVATIONS IN ACCORDANCE WITH THE SITE DEWATERING DETAIL AND NOTES. THE CONTRACTOR SHALL NOT BE PERMITTED TO DISCHARGE SEDIMENT LADEN RUNOFF DIRECTLY INTO THE EXISTING/PROPOSED STORM SEWER SYSTEM. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP SUCH AS A FILTER BAG WHICH SHALL DISCHARGE OVER NON-DISTURBED PERVIOUS AREAS.

2. AN INDUSTRIAL WASTE PERMIT WILL BE REQUIRED SHOULD PUMPING TO CITY OWNED INFRASTRUCTURE BECOME NECESSARY DURING CONSTRUCTION.

3. THE NECESSARY DEWATERING OPERATIONS SHALL BE IMPLEMENTED IN ORDER TO MAINTAIN THE GROUNDWATER/PERCHED WATER TABLE TO A MINIMUM OF 2 FEET BELOW THE PREVAILING EXCAVATION BOTTOM DURING EXCAVATION AND BACKFILLING.

4. THE SOIL AND FOUNDATION ENGINEERING REPORT BY UNDERWOOD ENGINEERING, DATED MAY 31, 2013, REVEALED NO PRESENCE OF

GROUNDWATER OR PERCHED WATER IN THE TEST BORINGS PERFORMED TO A DEPTH OF 18 FEET BELOW THE EXISTING GROUND SURFACE. HOWEVER, THE CONTRACTOR SHALL NOTE THAT GROUNDWATER ELEVATIONS ARE SUBJECT TO DAILY AND/OR SEASONAL VARIATIONS AND THEREFORE, HE SHOULD BE PREPARED TO IMPLEMENT THE DEWATERING OPERATIONS SPECIFIED BY THESE PLANS.

ROCK CONSTRUCTION ENTRANCE NOTES

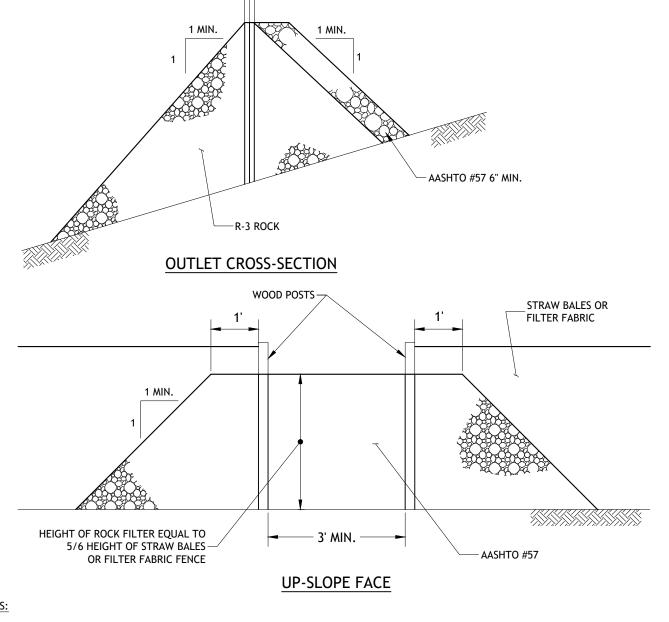
OFF-SITE SEDIMENT TRACKING. A STONE STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE.

IMMEDIATELY AFTER INITIAL SITE DISTURBANCE A CRUSHED STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. THIS STABILIZED CONSTRUCTION ENTRY WILL BE OF SUFFICIENT SIZE TO REDUCE OFF-SITE TRACKING OF SEDIMENT BY CONSTRUCTION TRAFFIC AND WILL BE MAINTAINED IN GOOD ORDER UNTIL ALL ROADWAYS ARE STABILIZED. MINIMUM DIMENSIONS SHALL BE 50' LONG X 25' WIDE X 8" THICK, UNDERLAIN WITH FILTER FABRIC, AND SHALL BE COMPOSED OF AASHTO NO. 1 STONE.

2. ALL VEHICLES AND EQUIPMENT MUST ENTER OR EXIT THROUGH THE ROCK CONSTRUCTION ENTRANCE (RCE). VEHICLES ENTERING AND EXITING THE RCE MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

4. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE SWEPT, REMOVED, AND RETURNED TO THE CONSTRUCTION SITE AND/OR DISPOSED OF IN AN A LAWFUL AND APPROPRIATE MANNER. NO SEDIMENT SHALL BE WASHED INTO EXISTING STORM

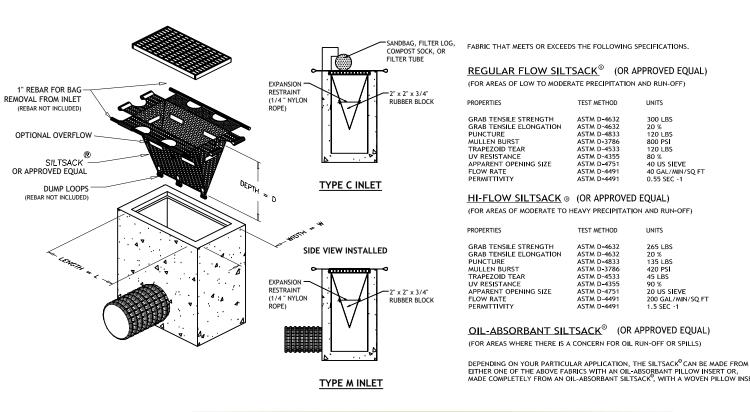
THE ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED ON SITE AND SUPPLEMENTED WHEN NECESSARY TO PREVENT



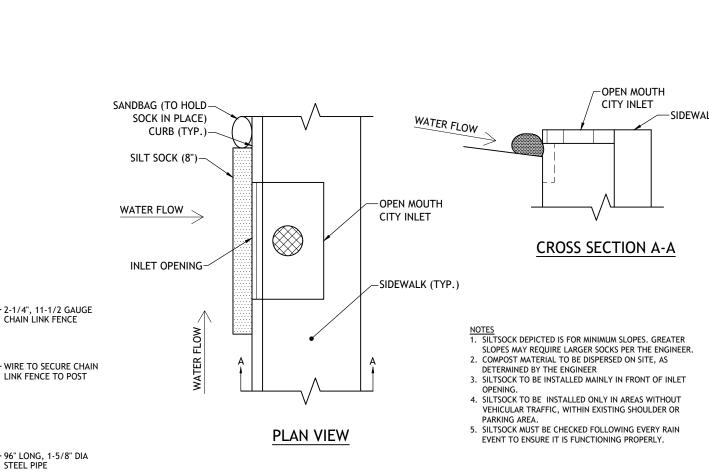
1. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.

PIPE SPACING 10 FT. ON CENTER -

ROCK FILTER OUTLET



FILTER BAG INLET PROTECTION - TYPE M AND TYPE C INLET



SUPPORT STAKE*-

(3'-0" WIDE)

GRADE

* STAKES SPACED @ 8' MAX USE 2"x2" (±3/8") WOOD OR EQUIVALENT STEEL (V OR T)

SILT FENCE

N.T.S.

50' (MIN.)

(A)—

(A) —

___ C = 8 IN.

PLAN VIEW

SECTION A-A

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY

MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE

MAINTAINED ON SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL

SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE

ROCK CONSTRUCTION ENTRANCE

N.T.S.

(SPACING 8'-0" C To C)

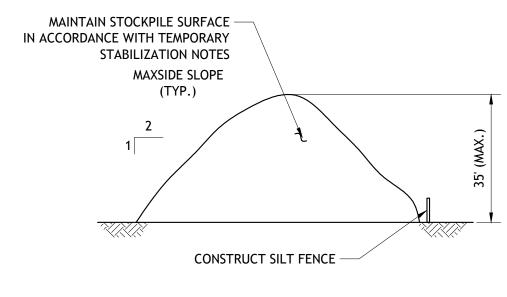
TAMP IN PLACE.

MIN 8" AASHTO #1 ROCK

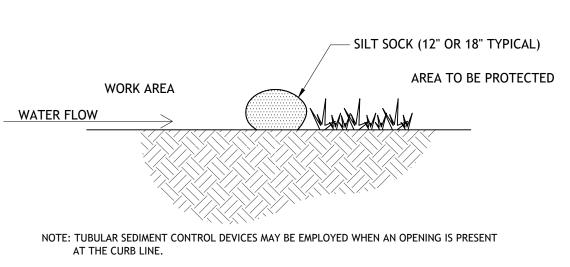
CONSTRUCTION SITE.

SILT SOCK DETAIL (OPEN MOUTH INLET)

N.T.S.



TEMPORARY STOCKPILE



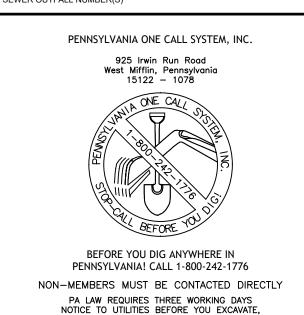
SILT SOCK N.T.S.

ISSUE DATE REVISIONS

REVISIONS

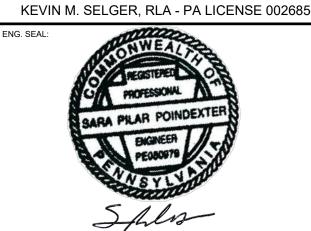


SP-PO-A ONING DISTRICT DEPT. OF STREETS SURVEY DISTRICT NUMBER DEPT. OF STREETS HIGHWAY DISTRICT NUMBER PWD SEWER DISTRICT NUMBER PWD SEWER OUTFALL NUMBER(S)



PA ONE-CALL NUMBER (FOR DESIGN ONLY): 20152581699 PP PROJECT COORDINATOR JAMEKA SMITH

LAND. ARCH. SEAL:



SARA P. POINDEXTER, P.E. - PA LICENSE 080979 **GILMORE & ASSOCIATES, INC.**

DESIGN, ENGINEERING, LANDSCAPE ARCHITECTURE & TECHNICAL CONSULTING ONE PENN CENTER AT SUBURBAN STATION 1617 JOHN F. KENNEDY BLVD., SUITE 425 PHILADELPHIA, PA 19103 PHONE: (215) 687-4246 65 EAST BUTLER AVENUE, SUITE 100 NEW BRITAIN, PA 18901

PHONE: (215) 345-4330



RODRIGUEZ CONSULTING, LLC CIVIL ENGINEER 1301 N 2ND ST. PHILADELPHIA, PA 19102 PHONE: (215) 839-8087

CITY OF PHILADELPHIA DEPARTMENT OF PARKS & RECREATION

1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA

IMPROVEMENTS TO PARKSIDE-**EVANS RECREATION CENTER** 5300 PARKSIDE AVENUE, PHILADELPHIA, PA

SITE DETAILS

16-14-4216-99 ONSULTANT PROJECT NO 14-02041-3 AS NOTE J. GALLAGHER

S POINDEXTER

PWD TRACKING #:FY18-PARK-4896-01

COMPACTED SUBGRADE

UNDERDRAIN DETAIL N.T.S.

-TACK COAT -6" SUBBASE - 2A OR 3A MODIFIED STONE (COMPACTED TO 90 TO 95%) (MATCH EXISTING SUBBASE MATERIAL)

CONSTRUCTION SAFETY CHAIN LINK FENCE

N.T.S.

BITUMINOUS PAVING

N.T.S.

/-1-1/2" ID-2 WEARING COURSE

NEW SOD

PUMP DISCHARGE

EXCAVATION AREA

DISCHARGE HOSE

1. BAG MUST BE LOCATED AWAY FROM

RECEIVING WATERS AND/OR

2. BAGS MUST BE DISPOSED OF

SEDIMENT FILTER BAG SCHEMATIC DETAIL

N.T.S.

INSTRUCTIONS. BAGS MAY NOT BE

WELL VEGETATED AREA

PUMP —

INTAKE HOSE -

INTAKE HOSE

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

6" SCREENED TOPSOIL (AMENDED AS NECESSARY)

FILTERED WATER FLOW

THRU STABILIZED AREA

SEDIMENT CONTROL BAG

FILTER BAG

PLAN VIEW

FILTER BAG

ELEVATION VIEW

DISCHARGE HOSE -

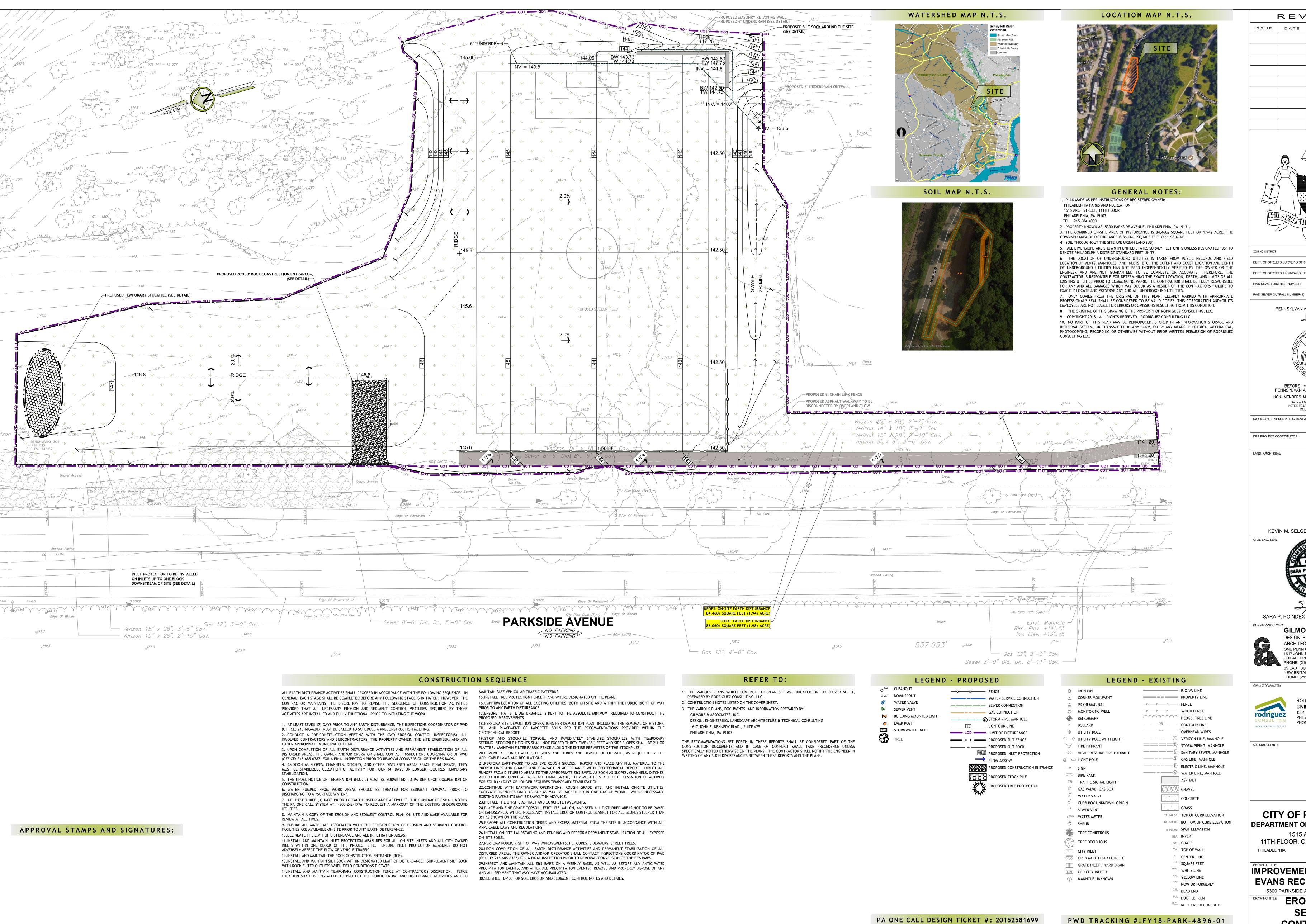
FILTER BAG

WELL VEGETATED, GRASSY AREA

WELL VEGETATED, GRASSY AREA

4" MIN. COARSE SAND LAYER

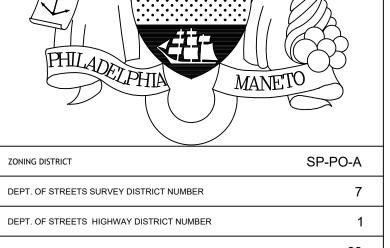
PERFORATED UNDERDRAIN SYSTEM W/STONE



REVISIONS

REVISIONS

DATE

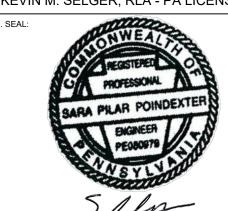


PENNSYLVANIA ONE CALL SYSTEM, INC. BEFORE YOU DIG ANYWHERE IN

PENNSYLVANIA! CALL 1-800-242-1776 NON-MEMBERS MUST BE CONTACTED DIRECTLY PA LAW REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, PA ONE-CALL NUMBER (FOR DESIGN ONLY):

20152581699 DPP PROJECT COORDINATOR: JAMEKA SMITH LAND. ARCH. SEAL:

KEVIN M. SELGER, RLA - PA LICENSE 002685



SARA P. POINDEXTER, P.E. - PA LICENSE 080979

GILMORE & ASSOCIATES, INC. DESIGN, ENGINEERING, LANDSCAPE ARCHITECTURE & TECHNICAL CONSULTING ONE PENN CENTER AT SUBURBAN STATION

1617 JOHN F. KENNEDY BLVD., SUITE 425 PHILADELPHIA, PA 19103 PHONE: (215) 687-4246 65 EAST BUTLER AVENUE, SUITE 100 NEW BRITAIN, PA 18901 PHONE: (215) 345-4330

PHONE: (215) 839-8087



RODRIGUEZ CONSULTING, LLC CIVIL ENGINEER 1301 N 2ND ST. PHILADELPHIA, PA 19102

GRAPHIC SCALE

"CALL BEFORE YOU DIG"

PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 121 (2008), THE CONTRACTOR SHALL

CONTACT THE PENNSYLVANIA ONE CALL SYSTEM 1-800-242-1776, OR 811, 3 TO 10 WORKING DAYS

STOP! CALL!

PRIOR TO EXCAVATION.

CITY OF PHILADELPHIA

DEPARTMENT OF PARKS & RECREATION 1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING

IMPROVEMENTS TO PARKSIDE-EVANS RECREATION CENTER 5300 PARKSIDE AVENUE, PHILADELPHIA, PA

EROSION AND SEDIMENT **CONTROL PLAN**

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

PPR PROJECT NO.: CONSULTANT PROJECT NO 14-02041-37 1" = 20 J. GALLAGHER S. POINDEXTER