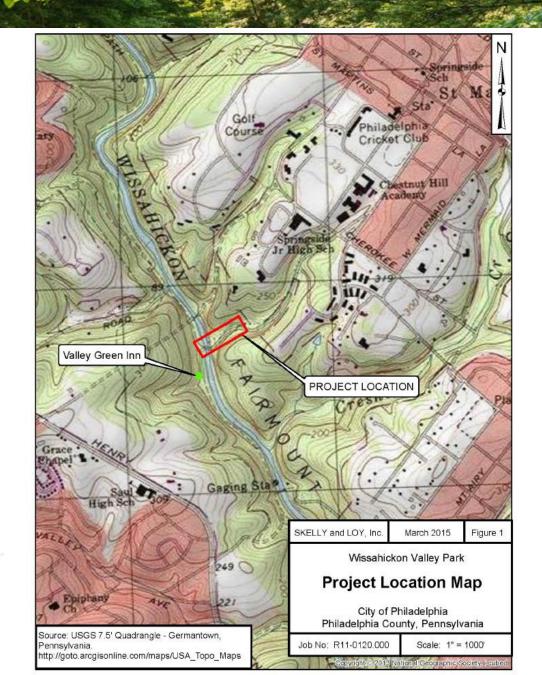


September 19th 2023
Chestnut Hill Community
Association
Development Review Committee
Meeting

- 1. Project Summary
- 2. Existing Conditions
- 3. Project Details
- 4. Technical drawings
- 5. Community Outreach and Important Dates

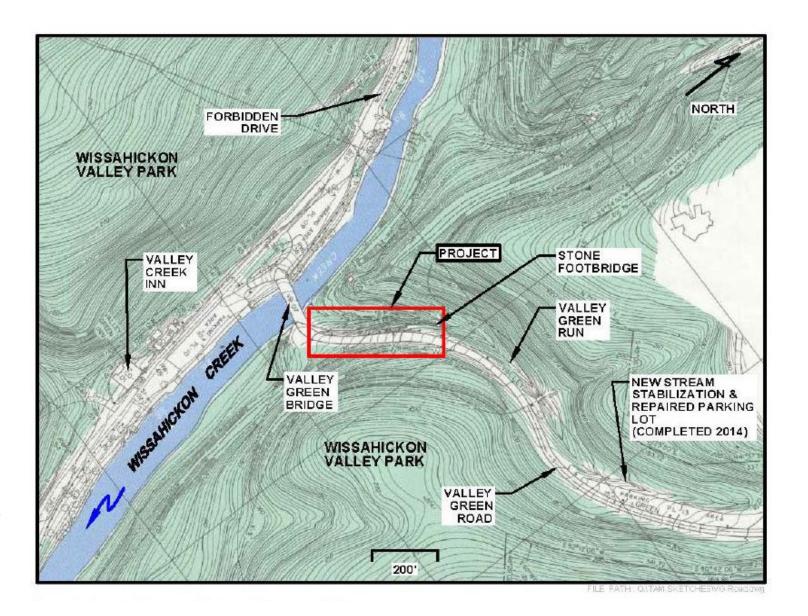
PROJECT CONTEXT MAP





PROJECT CONTEXT MAP





VALLEY GREEN RUN RESTORATION & PEDESTRIAN BRIDGE









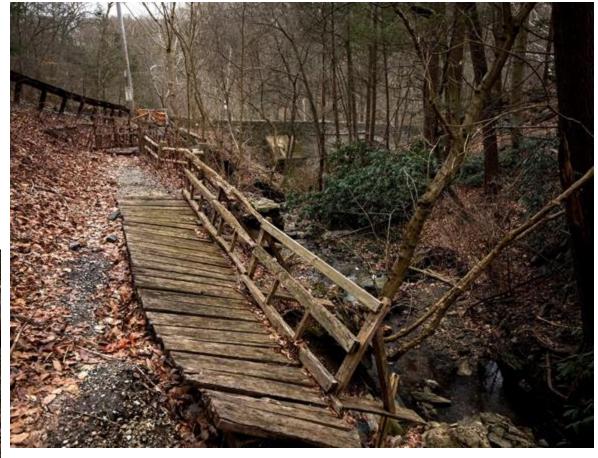
Summary:

- Continue restoration efforts of Valley
 Green Run, while adding a new signature feature to the Park.
- Project is led by Skelly & Loy, with CVMNEXT Construction and Krieger + Associates Architects subcontracting, in partnership with Philadelphia Parks & Recreation, and the Philadelphia Water Department
- Both stream restoration and pedestrian bridge design work is complete and permit ready
- Joint permit from PA DEP & USACE has been issued
- Construction expected to commence Spring 2024
- Valley Green Road, below Wolcott Drive, will be closed for duration of construction

Current Conditions:

- Severe bank erosion on both sides of Valley Green Run, contributing 400 cubic feet of sediment discharge annually
- Unsafe pedestrian access along Valley Green Road due to collapsed wooden boardwalk





Goals:

- Reduce sediment discharge through bank stabilization and restoration of streambed with naturalistic, boulder-bed, step-pools
- Restore safe pedestrian access to Valley Green Area with construction of pedestrian walkway









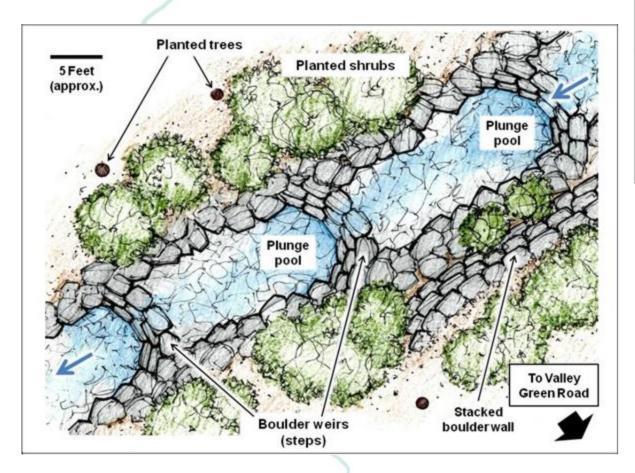


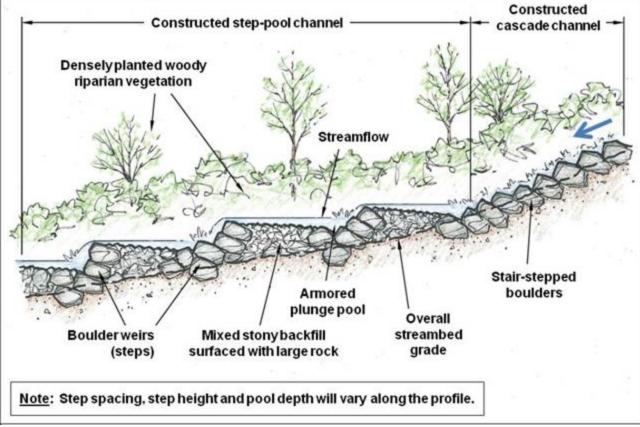


VALLEY GREEN RUN RESTORATION

Streambank restoration:

 Construction of boulder step-pools and bank revetments to reduce speed and force of water, and create resilience



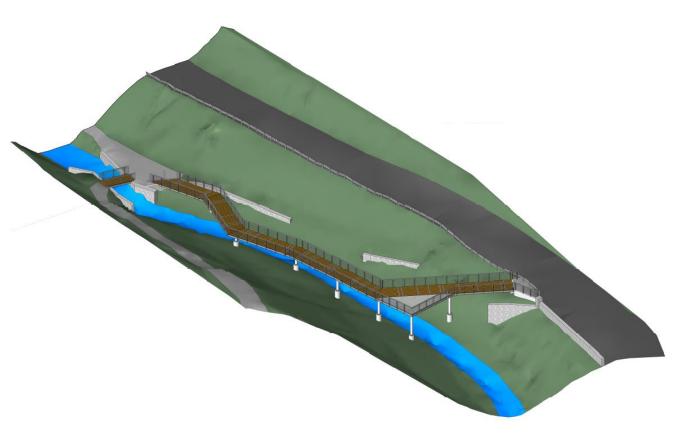


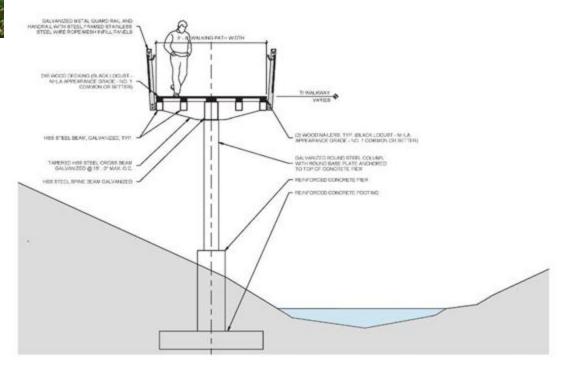
- Shift centerline of stream away from Valley Green Road to protect it
- Regrade of the streambank to accommodate riparian plantings
- Restore ecological function of riparian buffer to filter nonpoint source pollution coming from Valley Green Road

VALLEY GREEN RUN PEDESTRIAN BRIDGE

Bridge Design:

- Length will be approximately 200 feet long and have an added viewing platform
- To maximize resiliency, bridge will not be load bearing on streambank



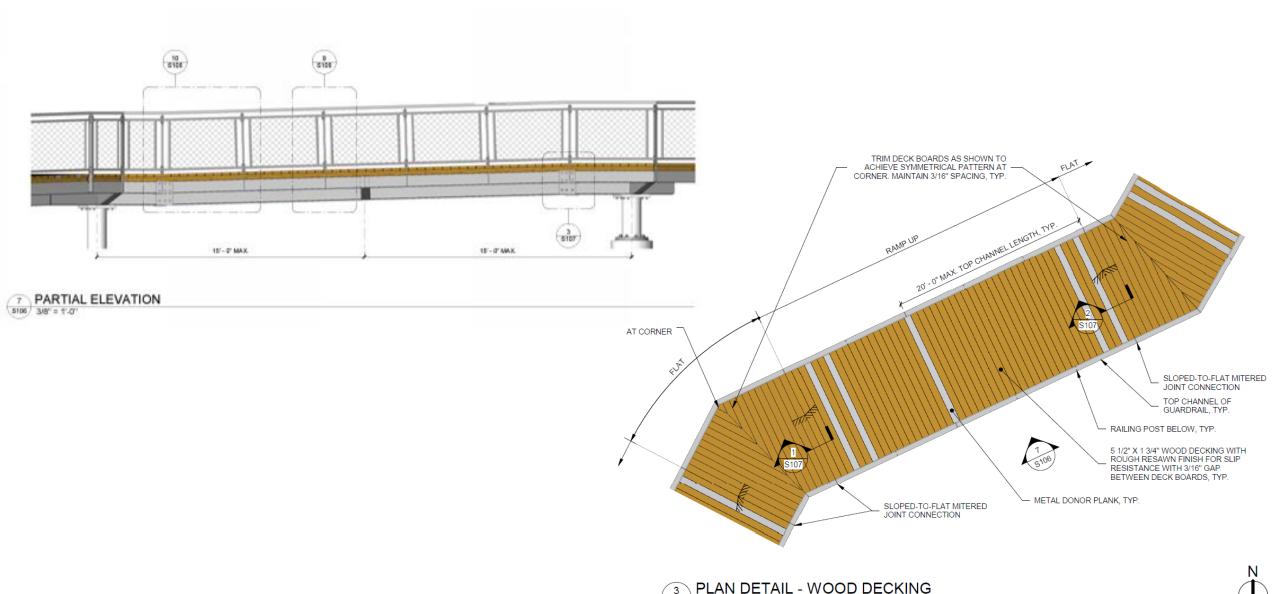


It will have a galvanized steel superstructure, supported by concrete piers and footings

The bridge will have a Black Locust wood decking and the viewing platform will have steel grating

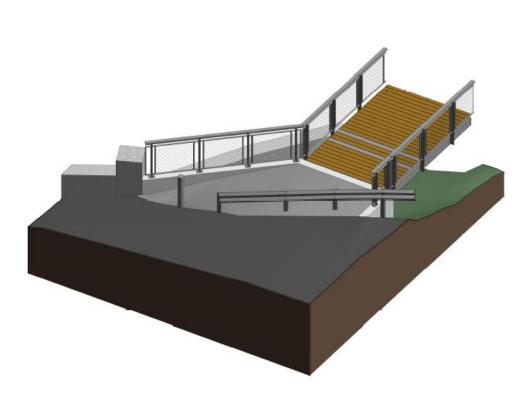
The guardrail and handrail will be stainless steel with a steel wire rope mesh infill

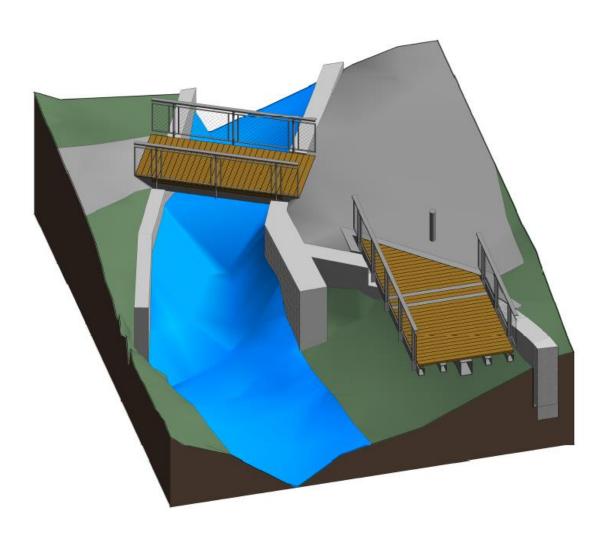
VALLEY GREEN PEDESTRIAN BRIDGE



1/4" = 1'-0"

VALLEY GREEN PEDESTRIAN BRIDGE

















VALLEY GREEN RUN RESTORATION & PEDESTRIAN BRIDGE



PERMIT NO. E5101223-001

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHEAST REGIONAL OFFICE
WATERWAYS AND WETLANDS

WATER OBSTRUCTION AND ENCROACHMENT PERMIT

SMALL PROJECT PURSUANT TO SECTION 105.13(e)

The Department of Environmental Protection ("DEP"), established by the Act of December 3, 1970, P.L. 834 (71 P.S. §§ 510–1 et seq.) and empowered to exercise certain powers and perform certain duties under and by virtue of the Act of November 26, 1978, P.L. 1375, as amended by the Act of October 23, 1979, P.L. 204 (32 P.S. §§ 693.1 et seq.) known as the "Dam Safety and Encroachments Act"; Act of October 4, 1978, P.L. 851 (32 P.S. §§ 679.101 et seq.) known as the "Flood Plain Management Act"; Act of June 22, 1937, P.L. 1987 (35 P.S. §§ 691.1 et seq.) known as the "Clean Streams Law"; and the Administrative Code, Act of April 9, 1929, P.L. 177, as amended, which empowers DEP to exercise certain powers and perform certain duties by law vested in and imposed upon the Water Supply Commission of Pennsylvania and the Water and Power Resources Board, hereby issues this permit to:

Philadelphia Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

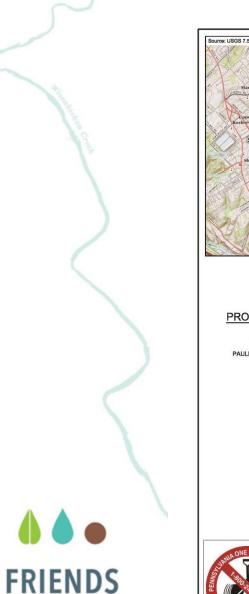
giving its consent to restore, construct, and maintain approximately 219 feet long eroded bed and banks, and raised pedestrian bridge walkway along the Valley Green Run (TSF/MF) associated with the public safety concerns. The project will also include to replace an existing pedestrian bridge 12-foot by 6-foot at the same location. The channel improvements will include boulder weirs and stacked boulder revetments to stabilize the stream channel and its banks to prevent vertical and horizontal erosion and to dissipate energy during high-flow (flood) events. The site is located within Wissahickon Valley Park (Germantown, PA, USGS Quadrangle Latitude: 40.0559423; Longitude: -75.216753) in the City of Philadelphia City, Philadelphia County.



Let's be friends.

Permit/Authorization Status

- Issued:
 - Water Obstruction and Encroachment Permit (PA DEP)
 - Section 404 Clean Water Act Pennsylvania State Programmatic General Permit (USACE)
- Awaiting Authorization:
 - Zoning Permit (City of Philadelphia)
 - Site/Utility Permit Genral Earth Disturbance (City of Philadelphia) [Approved Dependent on Authorization of Zoning Permit]





O' 2000' 4000'

PROJECT CONTACT INFORMATION

FRIENDS OF THE WISSAHICKON RUFFIAN TITTMANN, EXECUTIVE DIRECTOR PAULINE BERKOWITZ, CAPITAL PROJECTS COORDINATOR (215) 247-0417

> SKELLY AND LOY, INC. MICHAEL LOWER, P.E. DANIEL AUNGST, P.E. CALVIN BUSH, P.E. (717) 232-0593



VALLEY GREEN RUN RESTORATION

PHILADELPHIA, PENNSYLVANIA

PREPARED FOR



FRIENDS OF THE WISSAHICKON

40 WEST EVERGREEN AVE, SUITE 108 PHILADELPHIA, PA 19118 PREPARED BY



449 EISENHOWER BOULEVARD SUITE 300 HARRISBURG, PENNSYLVANIA 17111-2302

	GENERAL DRAWINGS
G-101	COVER
G-102	NOTES
	ERSA DRAWINGS
ERSA-101	EXISTING RESOURCES AND SITE ANALYSIS MAP
	DEMOLITION DRAWINGS
X-101	DEMOLITION PLAN
	RESTORATION DRAWINGS
R-101	SITE PLAN
R-201	PROFILE
R-301	SECTIONS
R-501 THRU R-502	DETAILS
EROSION &	SEDIMENT POLLUTION CONTROL DRAWINGS
ES-101	EROSION & SEDIMENT POLLUTION CONTROL PLAN
ES-501 THRU ES-503	EROSION & SEDIMENT POLLUTION CONTROL DETAILS
	LANDSCAPE DRAWINGS
LS-101	LANDSCAPE PLAN

CONTRICTOR CON		Plotted orc 2022-12-22		rail, dwg	n: \projects\2019\jn197556\cad\sheets\fow_v		TEL: (717) 232-0593 - FAX: (717) 232-1799 - WWW.skellyloy.com
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G-101

OF THE

WISSAHICKON



ESS PLAN NOTES - PENNSYLVANIA STANDARD

1.ALL SAFTY DISTURBANCES, INCLUDING CLEARING AND ORDERING AS WILL AS CUTS AND FILE SHALL BE DONE IN AGCORDANCE WITH THE APPRIVATE BEST AS A COPY OF THE APPRIVATE DAYAGES STATEMED SONDO AND DATED BY THE FREVENING ASSECT) MAD FILE OF THE APPRIVATE OF THE FREVENING ASSECT HAS READ THE APPRIVATE OF THE APPRIVATE OF THE ASSECT OF THE APPRIVATE OF THE APPRIVATE OF THE APPRIVATE OF THE ASSECT OF THE APPRIVATE OF THE ASSECT OF THE APPRIVATE OF THE ASSECT OF THE ASSECT

3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-17/6 FOR THE LOCATION OF EXISTING

4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWNINGS, DEVALUED FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DESCRIPTION OF THE REPORT OF THE PROVIDED TO THE PLAN THAT OF THE PLAN THE PLAN THE PROVIDED TO THE PLAN THAT OF THE PLAN THAT AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.

7. 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 GRIEBLING OFF

A TOPROL REQUIRED FOR THE ESTABLEMENT OF VEGETATION SHALL BE STOOPHED AT THE LOCATIONS SHOWN ON TO PLAN MAPPERS IN THE ARKINIT RECESSARY TO COMPLETE HE RIGHT REGALDION OF ALL DOPIGES AREAS HAVE ARE TO SE STABLEZED BY VEGETATION. EACH STOOKHEE SHALL BE PROTECTED IN THE MANNERS SHOWN ON THE PLAN DRAWINGS. STOOCHEE HEIGHTS SHALL NOT EXCEED SEFEET. STOCKHEE SLOPES SHALL BE 21-YOU OF FLATTER.

11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN EAS PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUS' BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS QUEAR FILL DUE TO ANALYTICAL TESTING. 13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.

14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM THE PROJECT SITE ONTO VALLEY GREEN ROAD.

16. A LOG SHOWING DATES THAT EAS 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 REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.

16. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS 19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARFFED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -6 TO 12 INCHES ON COMPACTED SOLS. -PRIOR TO PLACEMENT OF TOPSOIL, AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING, FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING, FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL OF TOPSOIL TO SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL TO SEEDING AND MULCHING.

21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS

22. 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. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

29. EAS 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 THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.

32. UPON CONPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION. 33. FAILURE TO CORRECTLY INSTALL EAS BMPS, FAILURE TO PREVENT SEDMENT-LOSEN RINGHT FROM LEAVING THE CONSTRUCTION STEE, OR FAILURE TO TAKE BMEDIATE CONSCITULINE OF SEGULAR FAILURE OF SES BMPS BMY RESULT IN ADMINISTRATIVE CON, AMONG TOMBANE, PAILURE SEGULAR SEGULAR SHE THE SEGULAR STEEL OF THE DESCRIPTION AS DEFENDED IN SECTION ASSOCIATION OF THE SEGULAR SEGULAR SHE SEGULAR SEGULAR SEGULAR SHE SEGULAR SEG

 CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO EINTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.

4. CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING. 5. 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.

AN INDUSTRUAL WASTE PERMIT WILL BE REQUIRED SHOULD PUMPING TO CITY-OWNED INFRASTRUCTURE BECOME NECESSAR' DURING CONSTRUCTION ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN COVER UNDISTRUED DY DEGITATED AREAS.

5. THE MAXIMUM HEIGHT FOR STOCKPILES AREAS SHALL BE 20 FEET. THE MAXIMUM SLOPE FOR STOCKPILE AREAS SHALL NOT EXCEED 2-1.

E. THE ROCK CONSTRUCTION ENTRANCE THROCKES SHALL BE CONSTANTLY MANYARIED ON-STILLA STOCKINE SHALL BE MANTAINED OWNET FOR THE PROPOSE. AT HE BOY OF EACH OWNSTRUCTION DAY, ALL SEDWENT DEPOSITED ON HALD ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. IN NO CASE SHALL THE SEDIMENT BE WASHE SHOWLED, OR WEPFI INTO ANY ROADSIDE DITOK STOMS SEWER, OR SUPPLACE WASHES.

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 SH:TV OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.

11. MTL. TIE STELLEST, ALLES BARR SHALLES MALTHAND PROFESY. MANTHANDS SHALLES MAN, INCLUDE REPROTICIONO
OF ALLES BARR SHORT DAY ANTICHTED STORE REPORT, ATTER EACH RANGE FOUTH AND ON WEIGHT WHILE AT PROFESSION AND ANTICHTED STORE REPORT AND THE STORE AND RESERVE AND ANTICHTED STORE REPORT FOR THE STORE AND ADMITTANCE WAS REPORTED AND THE STORE AND ADMITTANCE WAS REPORTED AND ADMITTANCE AND ADMITTANCE WAS REPORTED AND ADMITTANCE AND ADMITT

12. ALL SARTH DISTURBANCIS, INCLIDING LEARING AND GRUBBING, AS WILL AS CUTS AND FILLS, SHALL BE DONE IN ACCORDANCE WITH THE APPROVED LEAR FLAX A COPY OF THE APPROVED DRAWINGS MASTER AND ALBELT AT THE PROJECT SITE AT ALL TIMES. PAYD SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIGE TO INFLIBENTATION OF THOSE CHANGES, PAYD MY REGILIER A WITHTS UBJUSTITED. OF THOSE CHANGES FOR REVIEW AND APPROVIAL ATT IS DISCRETION. 13. AT LEAST THREE (3) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED. THE PERMSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF

14. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWNAS, DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY PWD AND THE PA DEP PRIOR TO

15. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.

17. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE FIAN MAPS, THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRIDBING ORDER THAN BOOK 18. A LOG SHOWING DATES THAT EASIBMPS 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.

18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE FOLLOWING MANNER: USE ALL SEDIMENT REMOVED FROM BMPS AS FILL MATERIAL.

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.

28. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CRASE RI ANY AREA OR SUBMERA OF THE PROJECT, THE OPERATOR SHALL STRALL DISTURBED AREA, DISTURBED AREA, DISTURBED AREA, DISTURBED AREA, DISTURBED AREA, DISTURBED AREA OF AT INTERIOR DANGEL, WHICH ALL SE IREALIZATION SHALL SE APPLIED AS DESCRIBED IN THE PLAY. AREA OF AT INTERIOR DANGEL, WHICH ALL SE IREALIZATION SHALL FOR INTERIOR AND AREA WHICH WILL NOT SET STRALLIZED IN ACCORDANCE WITH THE TESTINGS PECIFICATIONS. THOSE AREAS WHICH WILL NOT SET STRALLIZED IN CONTROLLING STRAIL STRAIL DESCRIPTION SHALL SET STRAIL DANGE AND SHALL SET SHALL S

28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANEN NON-VEGETATIVE OVER WITH A DENIFY SUFFICIENT TO RESIST ACCIDERATE DEPOSION, CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FALURED DUE TO SULVIPING, SLIDING, OR OTHER MOVIMENTS.

21. A FIRE FIVE LETTE STABLEATION HAS BEEN ACHEMICS. TEMPORARY EAR BAMP MAST BE REMOVED ON CONFIRETED TO PREMAMENT FOR CONSTRUCTION BY FORMATTER MANNESSEET PRACTICES AREA DESTRUCTED DEFINED RESENON CON-CONVERSION OF THE EAR BAMP 8-MALL BE STABLEDS IMMEDIATES. IN CROSS TO ENSURE FAMP INTRODUCTION OF DISTURBED AREAS, BUCH REMOVALCON/RESIONAR ARE TO BE CORE ON FOUNDMENT OF EXPRININATION SCHOOL.

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 POLILUTE THE SURFACE WATERS. (WHEN APPLICAR) F.

33. DURING CONSTRUCTION, THE SELECTED CONTRACTOR IS EXPECTED TO FOLLOW THE POSMP APPROVED BY PWD. NO CHANGE OR DEVIATION FROM THE APPROVED POSMP IS PERMITTED WITHOUT PRIOR APPROVAL FROM PWD.

34. ALL WORK ASSOCIATED WITH PWD WATER CONVEYANCE AND SEWER INFRASTRUCTURE SHALL BE DONE IN ACCORDA
WITH THE CITY OF PHILADELPHIA WATER DEPARTMENT "WATER MAIN STANDARD DETAILS AND CORROSION CONTROL
SPECIFICATIONS." 1996 EDITION AND "STANDARD DETAILS AND STANDARD SPECIFICATIONS FOR SEWERS", 1996 EDITION.

 If ALL CUT AND FILL MATERIALS WILL BE USED ON THE SITE, A CLEAN FILL DETERMINATION IS NOT REQUIRED BY THE CONTRACTOR UNLESS THERE IS A BELIEF THAT A SPILL OR RELEASE OF A REGULATED SUBSTANCE OCCURRED ON SITE. SHOULD THE SITE REQUIRE FILL IMPORTED FROM AN OFF SITE LOCATION, THE CONTRACTOR WILL BE RESPONSIBLE FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND THE DETERMINATION OF CLEAN FILL.

3. ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH PAIDEP'S POLICY "MANAGEMENT OF FILL", DOCUMENT NUMBER 298-2185,773.

6. CLEAN FILL IS DEFINED AS: UNICONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLD MATERIAL. THE TIDM INLUDES SOL, ROCK, STONE, DISEDSED MATERIAL, USED SAFETY, AND SECRE, BLOCK OF CONCRETE FROM DOUBLE AND ADDRESS OF THE COMMENT OF SECREDIAL PLANS AS USED. THE TERM DOES NOT INCLUE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMENTAL THIS ASSOCIATION SEA, AND SECREDIAL PLANS ASSOCIATION OF THE TERM USED ASSPHALT DOES NOT INCLUE MALED AMPHAT OR SHAPHAT THAT HAS BUS PROCESSED FOR RUSED.

WHILE DEFINED AS CLEAN FILL IN NOTE 5 ABOVE (CUT AND FILL MATERIALS), USED ASPHALT, BRICK, BLOCK, AND CONCRETE FROM CONSTRUCTION AND DEMOLTION ACTIVITIES IS UNACCEPTABLE FOR USE WITHIN WISSAHICKON VALLEY PARK, AND SHALL MOT BEI INET POP BEI IN ATTRIBUL WITHIN WISSAHICKON VALLEY PARK.

 WHILE DEFINED AS CLEAN FILL IN NOTE 6 ABOVE (CUT AND FILL MATERIALS), FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE ARE UNACCEPTABLE FOR USE WITHIN WISSAHICKON VALLEY PARK, AND SHALL NOT BE USED FOR FILL MATERIAL WITHIN WISSAHICKON VALLEY PARK. MAINTENANCE SCHEDULE

1. ALL EROSION CONTROL BMPS SHALL BE INSPECTED AND MAINTAINED AT LEAST WEEKLY, BEFORE ANY ANTICIPATED PRECIPITATION, AND AFTER ALL PRECIPITATION EVENTS. 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING THE REGULAR INSPECTIONS OF THE BMPS AND FOR PERFORMING ANY REQUIRED MAINTENANCE.

3. THE FOLLOWING MAINTENANCE INSTRUCTIONS, CLEANOUT LEVELS, AND REPAIR TIME FRAMES SHALL BE STRICTLY ADHERED

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SMP. ROCK CONSTRUCTION ENTRANCE/EXIT.

MANTENING: THOOLOGS SHALL BE CONSTRUCTLY MAINTAINED TO THE SPECIFED DIMENSIONS BY ACKING ROCK. A STOCKPILE

MANTENING: THOOLOGS SHE FOR THE SPRONGE. REMOVE, AND REPLACEMENT MAY BE REQUIRED IF ROCK IS TOO CLOSED.

REPLACEMENT THE FRAME: SEDIMENT TRACKED ONTO ROMOWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE

MARGINTE!

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BMP: PLMPED WATER FLITER BMG
MANTENENCE: INSPECT DALY: SPAME BMS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FALLED OR
AGE FLLED. KEPT AMM FYAME SENCEDER FLOATING AND FAIRE OF DEBRIS.

KEPTAIN THAT FRAME: PROCEEDER AND EFFECTED, CEASE PLMPHIS IMMEDIATELY AND DO NOT RESUME PLMPHIS UNTIL THE
PROCEEDER ARE CORRECTED.

BMP. ROOK IT.TER OUTLET
MANTENANCE RESPECT WEBSTY AND ATTER EACH RUNOFF EXISIT. INITIATE NEEDED REPAIRS MANEDATELY AFTER RESPECTION.
MANTENANCE RESPECT WEBSTY AND ATTER EACH REPAIRS.
MEMORY EXISTS TO THE RESPECT OF THE FLITS.
REPAIR THE FRAME. REPLICE FLITS STONE OR COMPLETELY RESULD THE ROOK FLITER BY THE BID OF THE WORK DAY, OR
SOCKER FRANK STORCEASTED.

BMP, ROCK FLITER
MANTENANCE RISPECT WEBSLY, AND AFTER EACH PLINOFF EYEST. INITIATE NEEDED REPAIRS MINEDIATELY AFTER INSPECTION.
CARROLL RESPECTION OF MANTEN BY SPECIAL OF REPAIRS.
REPAIR THE FRAME REPLACE FLITER STONE OR COMPLETELY RESULD THE ROCK FLITER SY THE DID OF THE WORK DAY, OR SOORIEF FRAME FOR CASE FLITER STONE OR COMPLETELY RESULD THE ROCK FLITER SY THE DID OF THE WORK DAY, OR SOORIEF FRAME FOR FORCEASTED.

BMP. FATER BAG INLET PROTECTION
MAINTENANCE INSPECTIVE AND AFTER EACH PLANOFF EVENT, INTIATE REPAIRS MANEDATELY AFTER INSPECTION
CLANGLY, LEVEL REMOVE SERMINISTY WHEN 12 FALL ON WHEN TOW CAPACITY HAS BEEN REDUCED TO A LEVEL WHERE THE
REPAIR TIME FRAME: REMOVE ACCUMULATED SERMENT OR REPLACE IMMEDIATELY
REPAIR TIME FRAME: REMOVE ACCUMULATED SERMENT OR REPLACE IMMEDIATELY

CLEAROUT LEVEL: 12 THE HEIGHT OF THE COFFERDAM.

REPAIR TIME FRAME: CRASE BYPASS PUMPING OPERATIONS WITHIN 1 HOUR AND REMOVE ACCUMULATED SEDIMENT BY THE END
OF EACH WORK DAY, PUMP BYPASS SHALL NOT BE REINSTALLED UNTIL ACCUMULATED SEDIMENT HAS BEEN REMOVED.

BMP: PLANE PYPASS
MANITENENCE: PLANE BYPASS SYSTEM SHALL BE INSPECTED ONCE PER HOUR DURING OPERATIONS. DISCHARGE LINE SHALL BE
COMPLETE SHEARS. SHAVE SCREENS AND OUTLET ENERGY DISSIPATIONS SHALL BE INSPECTED FOR CLOSS AND TO VERIFY
COMPLETE SHEARS. COMPLETE ASSESSMENT.

CLEANOUT LEVEL KONE (SEE TEMPORARY COFFER DAM)

REPAIR TIME FRAME: IMMEDIATELY CEASE PUMPING OPERATIONS IF DEFICIENCIES ARE NOTED. REPAIRS SHALL BE COMPLETED PRIOR TO REPAIREM MEDIATELY CEASE PLANFING OPERATIONS.

4. ALL SEDIMENT REMOVED FROM ERCISION CONTROL BMPS SHALL BE USED AS FILL MATERIAL WITHIN THE PROJECT LIMITS.

AT LEAST SEVEN (7) DAYS PRIOR TO ANY EARTH DISTURBANCE, THE INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) MUST BE CALLED TO SCHEDULE A PRECONSTRUCTION MEETING.

AT LEAST THREE (3) DAYS PRIOR TO (APPLICANT TO NAME EACH SMP) INSTALLATION, THE INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-5387) MUST BE CALLED TO SCHEDULE AN INSPECTION (FOR EACH SMP).

ALL STONE THAT MAKES UP THE (APPLICANT TO NAME EACH INFILTRATION SMP) MUST REMAIN FREE OF SEDIMENT. IF SEDIMENT ENTERS THE STONE, THE CONTRACTOR MAY BE REQUIRED TO REMOVE THE SEDIMENT AND REPLACE IT WITH IT EARLING STONE.

4. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER ANDIOR OPERATOR SHALL CONTROL RISPECTIONS COORDINATOR OF PWD (OFFICE: 216-666-6387) FOR A FINAL IMPECTION PROOF TO RISPONJAL CONVERSION OF THE EAS BMPS.

1. LOCATE INLETS REQUIRING PROTECTION AND INSTALL FILTER BAG INLET PROTECTION. INLET PROTECTION MUST BE INSTALLED PRIOR TO ANY EARTH DISTURBANCE ACTIVITIES.

B. IDENTIFY STOCKPILE LOCATIONS AND INSTALL SILT FENCE, COMPOST FILTER SOCK, OR WOOD OHP FILTER BERM. REFER TO PLANS FOR TYPICAL LOCATIONS, PLACE EXCAVATED AND STORED MATERIALS IN STOCKPILE LOCATIONS, IMMEDIATELY STABILIZE STOCKPILENS.

- 6. INSTALL COMPOST SOCK WASHOUT.
- 7. DEMOLISH EXISTING STRUCTURES AND TREES ACCORDING TO THE DEMOLITION PLAN.

8. NETAL TEMPORARY COFFEDIMA AND PUMP BYPASS (SIG OTHER APPROVID) WATER MANAGEMENT BMP, REFER TO PLANS FOR TYPICAL SITUL POCATION. THE CONTRACTION RESERVABILE FOR SIZING THE SELECTED WATER MANAGEMENT BMP IN ACCORDANCE WITH THE EROSION AND SEDMENT POLLUTION CONTROL PROGRAM MANUAL INSTALL PUMPED WATER FILTER SAG DEWATTER WORK AREA.

COMMENCE CONSTRUCTION OF STREAM CHANNEL STRUCTURES AND CHANNEL GRADING IN ACCORDANCE WITH DESIGN DRAWINGS AND SPECIFICATIONS WORKING FROM THE UPSTREAM END OF PROJECT AREA TO THE DOWNSTREAM END.

10. INSTALL 16' HDPE PIPE, AND 4' STANDARD PWD SHALLOW INLET AS SHOWN ON THE PLANS. STORMWATER CONVEYANCE PIPES AND INLET MAY BE INSTALLED CONCURRENTLY WITH STREAM CHANNEL CONSTRUCTION WORK.

11. INSPECT INSTALLED STRUCTURES FOR ANY DEFICIENCIES AND CORRECT IMMEDIATELY

AT THE END OF EACH WORKDAY APPLY TEMPORARY OR PERMANENT SEEDING (AS APPROPRIATE) AND MULCH TO AREAS DISTURBED DURNOTHE WORKDAY.

1. UPON PROJECT COMPLETION, HAUL ANY LEFTOVER MATERIAL OFF THE SITE TO AN APPROVED LOCATION. SEED AND MULCH STOCKPILE AREAS AND ANY REMAINING DISTURBED AREAS.

2. REMOVE TEMPORARY ACCESS ROUTES AND PARKING/STAGING AREAS, BACKFILL AND STABILIZE ALL DISTURBED AREAS AS REQUIRED.

3. REMOVE STABILIZED ROCK CONSTRUCTION ENTRANCES, BACKFILL AND STABILIZE ALL DISTURBED AREAS AS REQUIRED REVEGETATE ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS FOR PERMANENT EROSION AND SEDIMENT CONTROL MEASURES.

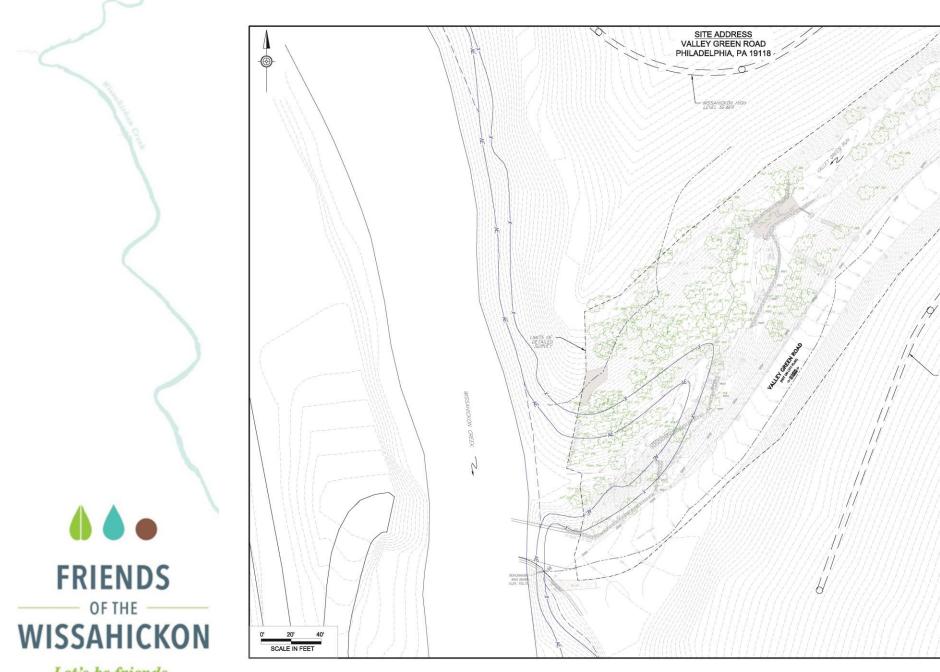
5. UPON REACHING SITE STABILIZATION, REMOVE ANY REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL SMPS.

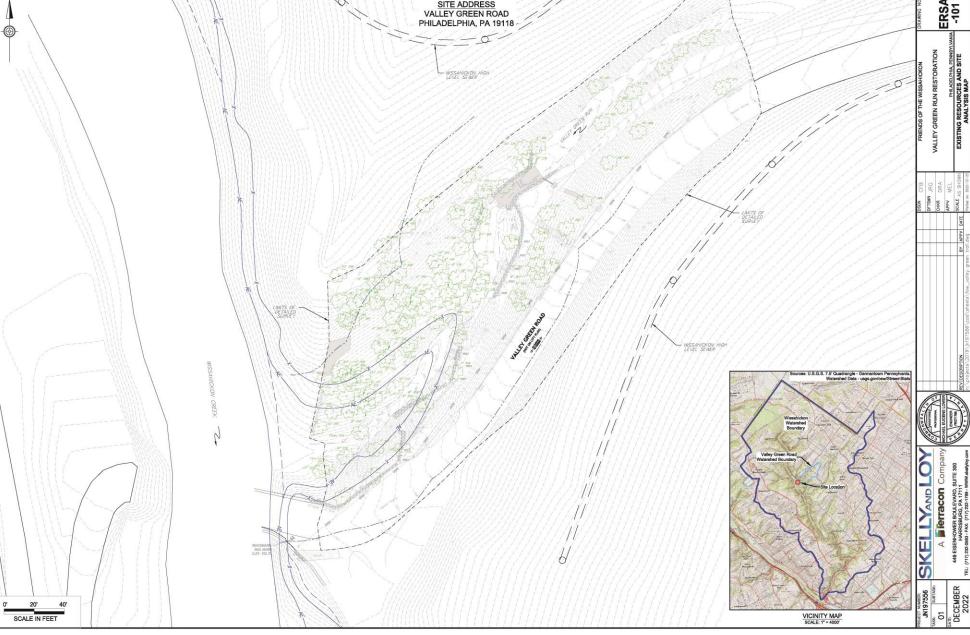
EXISTING LEGEND



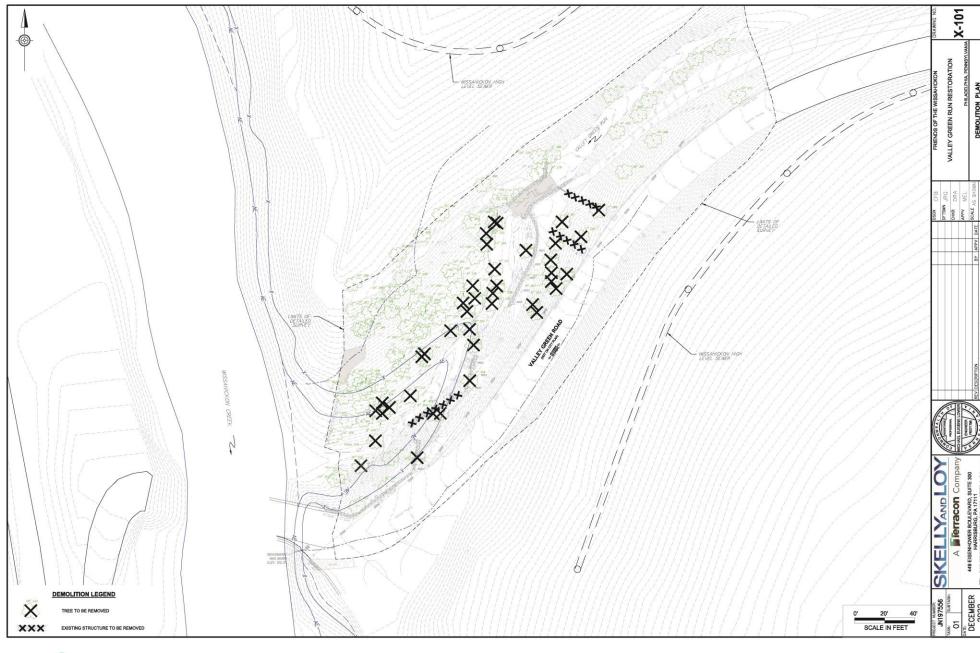
SHKR APPV SCALE

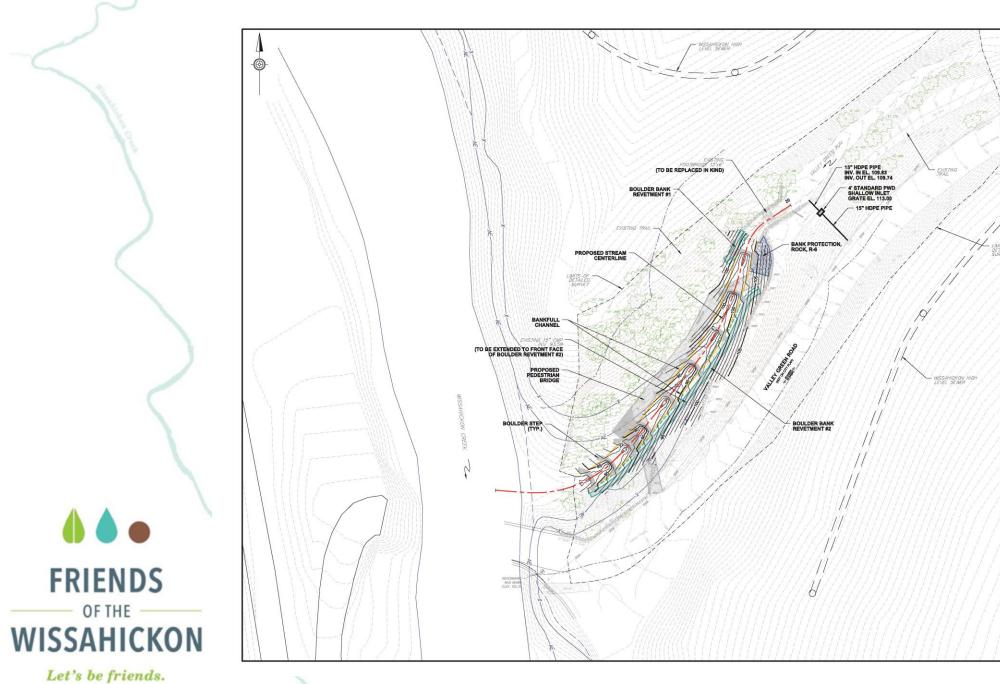
 \mathbf{V}



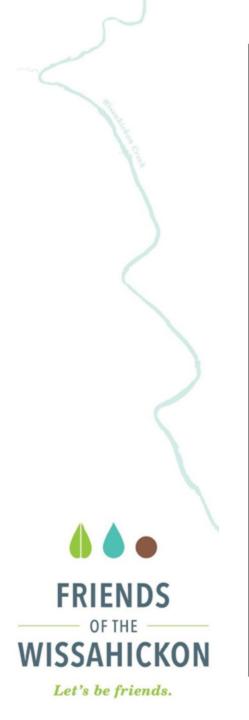


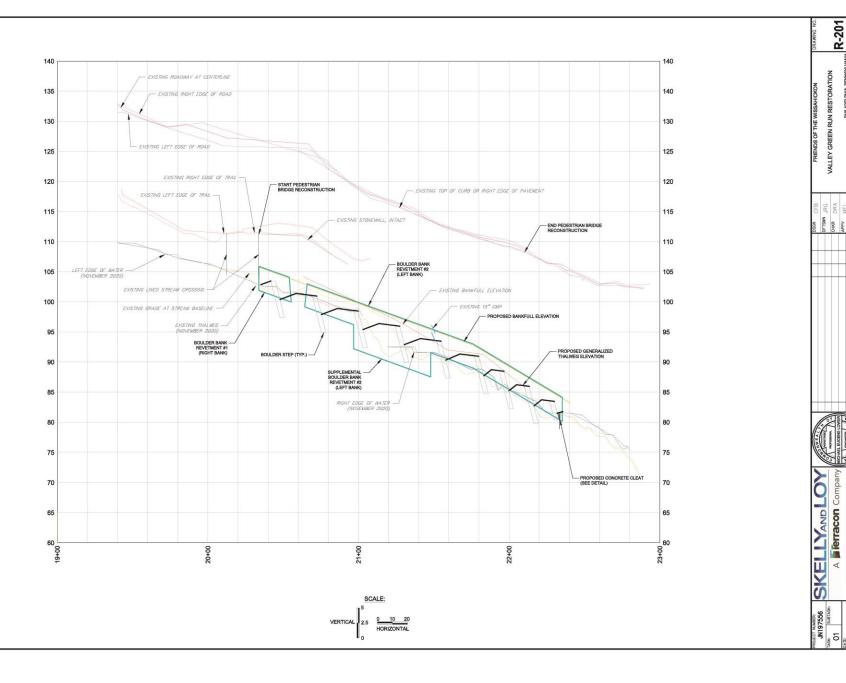


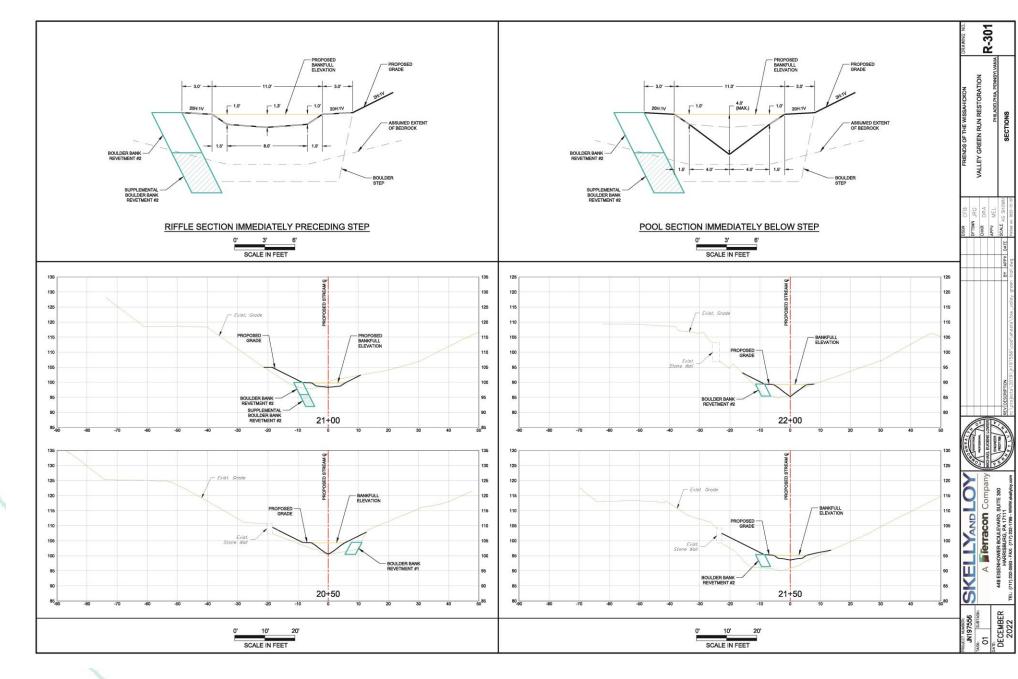




R-101

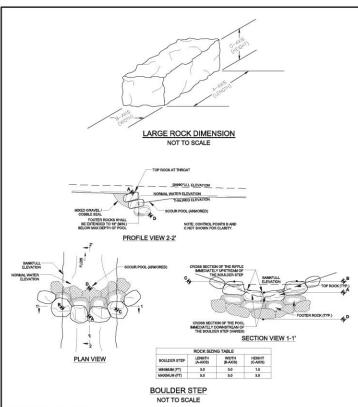








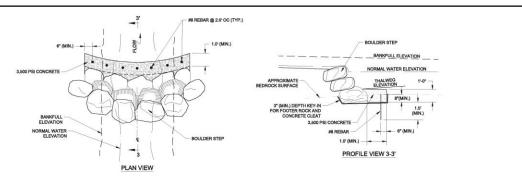




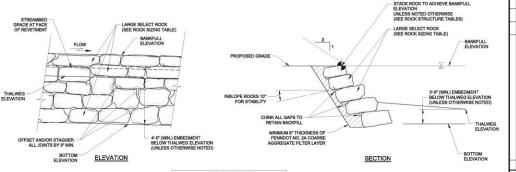
- ALL BOLLDER STEP STRUCTURES SHALL BE CONSTRUCTED UNDER THE DIRECT SUPERVISION OF, AND SUBJECT TO THE APPROVAL OF, A SUPERVISING ENGINEER (OR STREAM RESTORATION SPECIALIST, WITH DEPOSED EN FLUVAL GEOMORPHOLOGY MO NATURE, CHANNER, RECONSTRUCTION.
- THE BOULDER STEP STRUCTURES SHALL BE INSTALLED IN GENERAL ACCORDANCE WITH THE PLAN DITALS AND IN THE LOCATIONS SHOWN IN THE PLANS, OR AS OTHERWISE APPROVED BY THE ENGINEER ALL IN-STREAM STRUCTURES MAY BE FEELD AULISTED AS INSECTION THE OESTING INPROVEMENTS TO OHNNIC COMPANIED. AND AND AND ASSESSMENT OF THE OESTING INPROVEMENTS TO OHNNIC COMPANIED.

- BEGINNING WITH THE POOTER ROCKS, ROCKS IN THE STEP STRUCTURE SHALL BE DISTINCTLY INSLOPED (CANTED) IN AN UPSTREAM DIRECTION. THIS ANGLE SHALL GENERALLY VARY BETWEEN 6 TO 15 DEGREES AS MEASURED ALLOND THE UPPER. FLAT FACE OF THE ROCK.

- NO SIGNIFICANT VOIDS SHALL EXST BETWEEN ACJOINNG ROCKS IN THE BOLLDER STEP STRUCTURE. IN ORDER TO PREVENT EXCESSIVE PPING BETWEEN ROCKS AND ENCOURAGE SEALING OF THE STRUCTURE, ALL SIGNIFICANT AND AND VOIDS SETWEEN ACJOINNO ROCKS SHALL BE CHINCED (FROM THE LIPSTREAM SIDE ONLY) WITH SMALLER ROCK FRAGMENTS. ALL VOIDS GREATER THAN OR COLUMN TO'S NON-SIS SEES SHALL BE ROWNINGLY CHINCED.
- BANKS ADJACENT TO THE BOULDER STEP STRUCTURE SHALL BE REGRADED OR RE-SHAPED AFTER INSTALLATION OF THE STEP STRUCTURE, AS DIRECTED BY THE ENGINEER, TO PROVIDE THE PROPER DIRECTOR CHANNEL DIMENSIONS.



CONCRETE CLEAT NOT TO SCALE



ROCK SIZING TABLE						
BOULDER BANK REVETMENT	(A-AXIS)	(B-AXIS)	HEIGHT (C-AXIS)			
MINIMUM (FT)	3.0	3.0	1.5			
MAXIMUM (FT)	5.0	5.0	3.0			

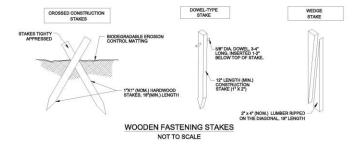
BOULDER BANK REVETMENT NOT TO SCALE

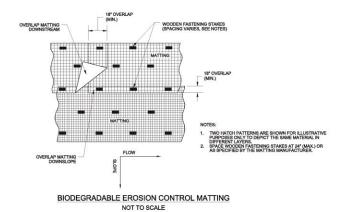
- 3. SLOPE THE BOTTOM OF ALL ROCK EXCAVATION AWAY FROM THE CHANNEL TO ENSURE THAT THE FIRST AND SUBSEQUENT COURSES OF ROCK ARE INSLOPED 10 DEGREES



501

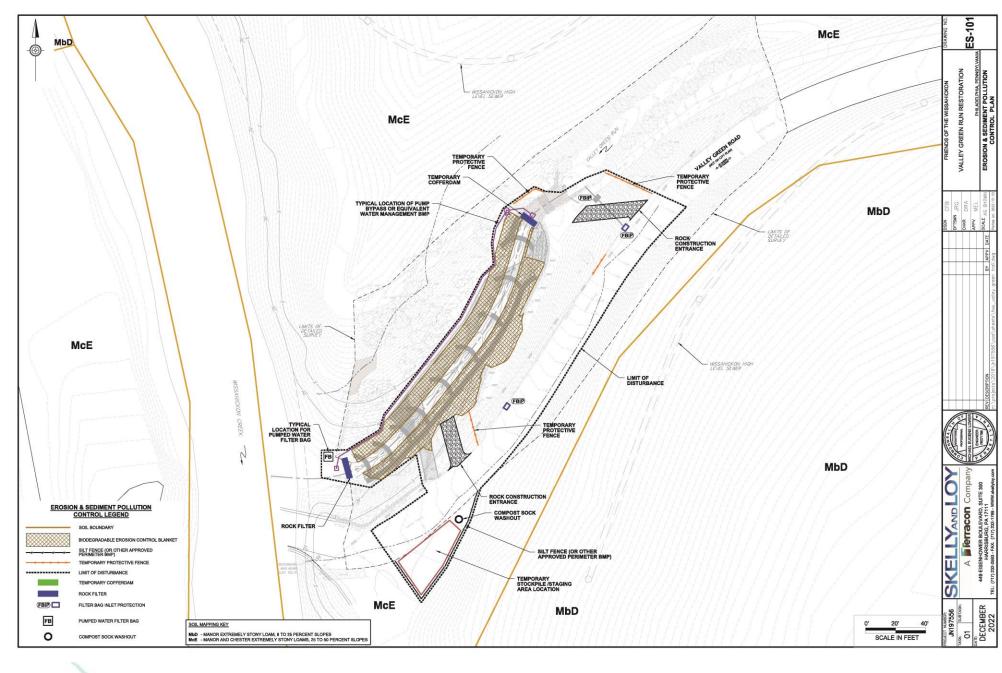


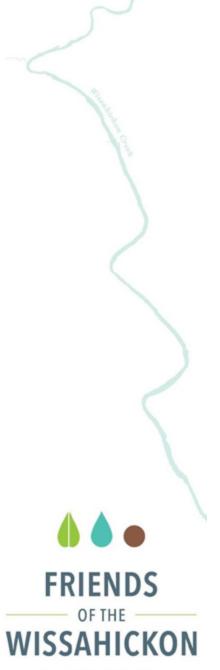


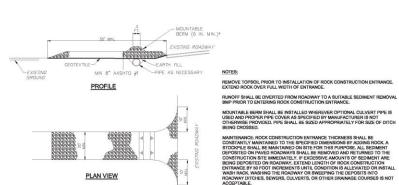


R-502









* MOUNTABLE BERN USED TO PROVIDE PROPER COVER FOR PIPE

INSTALL THE FENCE USING A METAL "T" OR "U" POST DRIVEN INTO THE GROUND TO A DEPTH OF 12 TO 18 INCHES. POSTS SHOULD BE SPACED EVERY 9 FET. NOTE: NOTCHED POSTS ARE IDEAL TO PREVENT THE FENCE FROM SUPPHING.

SECURE THE FENCE TO THE POST USING THREE WIRE TIES, WRAPPED AROUND THE FENCE STRAND AND THE POST. TENSION WIRE OR ROPE MAY BE USED AS A TOP STRINGER AND WOVEN THROUGH THE TOP ROW OF STRANDS TO PREVENT POTENTIAL BAGGING.

TWO ROLLS OF SAFETY FENCE MAY BE OVERLAPPED AT THE INTERSECTION OF A POST AND SECURED WITH WIRE TIES.

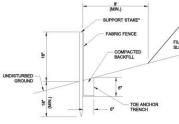
TEMPORARY PROTECTIVE FENCE

ES-3-1 ROCK CONSTRUCTION ENTRANCE









* STAKES SPACED @ 8" MAXIMUM. USE 2" X 2" ($\pm^3 i$ ") WOOD OR EQUIVALENT STEEL (U OR T) STAKES.

ES-4-7 STANDARD SILT FENCE (18" HIGH)

1. FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3.

FABRIC PROF	PERTIES FOR SIL	T FENCE
FABRIC PROPERTY	MINIMUM ACCEPTABLE VALUE	TEST METHOD
GRAB TENSILE STRENGTH (LB)	120	ASTM D1682
ELONGATION AT FAILURE (%)	20% MAX.	ASTM D1682
MULLEN BURST STRENGTH (PSI)	200	ASTM D 3786
TRAPEZOIDAL TEAR STRENGTH (LB)	50	2005/06/2010/05/2010/06/2010/05
PUNCTURE STRENGTH (LB)	40	ASTM D 751 (MODIFIED)
SLURRY FLOW RATE (GAL/MIN/SF)	0.3	ASTM 5141
EQUIVALENT OPENING SIZE	30	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY (%)	80	ASTM G-26

FABRIC WIDTH SHALL BE 30" MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR T) STAKES.

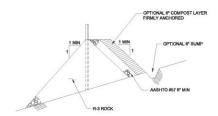
SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE, BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT (SEE FIGURE 4.1).

4. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVEGROUND HEIGHT OF THE FENCE.

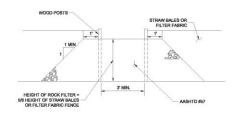
5. ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET (STANDARD CONSTRUCTION DETAIL ESX-45).

6. FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

ES-4-7 STANDARD SILT FENCE (18" HIGH)



OUTLET CROSS-SECTION



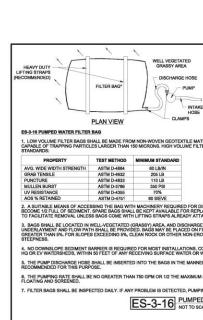
UP-SLOPE FACE

1. A ROCK FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A SILT FENCE OR STRAW BALE BARRIER HAS OCCURRED DUE TO CONCENTRATED FLOW. ANCHORED COMPOST LAYER SHALL BE USED ON UPSLOPE FACE IN HO AND EY WAITERSHEDS.

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



PRIOR TO PLACEMENT OF THE BERM, OBSTRUCTIONS SUCH AS TREE LINBS, LARGE ROCKS, ETC. SHALL BE REMOVED.





1. LOW VOLUME THE REAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "I" TYPE SEAMS. THEY SHALL BE CAPAGE OF TRAPPING PARTICLES LARGER THAN 150 MIGRONS, HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS.

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY COME 12 FULL OF SEDMENT. SPACE BAGS SHALB ER EXPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA. AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS, WHERE THIS IS NOT POSSIBLE, A GEOTEXTLE UNDERLAYMENT AND ILOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FLITER STOKE TO INCREASE DISCHARGE CAPACITY, BAGS SHALL NOT BE FLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPINESS.

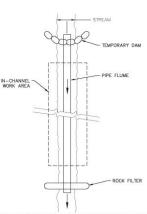
4. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS, COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

5. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

6. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS, PUMP INTAKES SHALL BE FLOATING AND SCREENED.

LITER BAGS SHALL BE INSPECTED DAILY, IF ANY PROBLEM IS DETECTED, PLAMPHOS SHALL CEASE IMARDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED

| PUMPED WATER FILTER BAG
| Not to scale



RIGID OR FLEXIBLE PIPE FLUME THROUGH A WORK AREA CONSTRUCTION SEQUENCE

I. INSTALL TEMPORARY PIPE THROUGH THE WORK AREA. PLACE OUTLET OF TEMPORARY PIPE TO MINIMIZE EROSION AT DISCHARGE SITE OR PROVIDE TEMPORARY ENERGY DISSIPATION MEASURES.

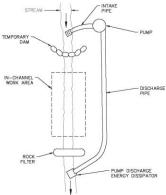
SECURELY AT INLET. 3. CONSTRUCT A ROCK FILTER DOWNSTREAM OF WORK AREA AND UPSTREAM OF TEMPORARY PIPE DISCHARGE.

TEMPORARY PIPE DISCHARGE.

4. PERFORM CONSTRUCTION ACTIVITIES WITHIN THE WORK AREA.

PERFORM CONSTRUCTION ACTIVITIES WITHIN THE WORK AREA.
 UPON COMPLETION OF CONSTRUCTION, REMOVE THE TEMPORARY COFFERDAM, TEMPORARY PIPE, AND ROCK FILTER.

OPTION 1
RIGID OR FLEXIBLE PIPE FLUME
THROUGH A WORK AREA



TEMPORARY COFFERDAM AND PUMP BYPASS CONSTRUCTION SEQUENCE

1. SET UP BYPASS PUMP AND TEMPORARY PIPING. PLACE OUTLET OF
TEMPORARY PIPE TO MINIMIZE EROSION AT DISCHARGE SITE OR PROVIDE

2. CONSTRUCT OUTLET PROTECTION IF NEEDED.

 CONSTRUCT TEMPORARY COFFERDAM UPSTREAM OF WORK AREA TO IMPOUND WATER FOR BYPASS PUMP INTAKE. USE FLOATING INTAKE FOR PUMPS WHERE POSSIBLE.

4. CONSTRUCT A ROCK FILTER DOWNSTREAM OF WORK AREA AND UPSTREAM OF TEMPORARY PIPE DISCHARGE.

5. CHECK OPERATION OF PUMP AND PIPING SYSTEM.

6. PERFORM CONSTRUCTION WITHIN THE WORK AREA.

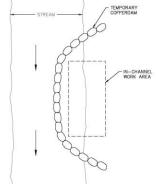
 UPON COMPLETION OF CONSTRUCTION, REMOVE THE TEMPORARY COFFERDAM, BYPASS PUMP, TEMPORARY PIPE AND ROCK FILTER.

> TEMPORARY COFFERDAM AND PUMP BYPASS AROUND IN-CHANNEL WORK AREAS

WATER MANAGEMENT BMP-OPTIONS



ES-3-15 SANDBAG DIVERSION DAM OR COFFERDAM NOT TO SCALE



IN-STREAM COFFERDAM CONSTRUCTION SEQUENCE

1. CONSTRUCT COFFEEDAM FROM THE EXISTING CHANNEL EMBANGMENT UPSTREAM OF THE PROJECT CONSTRUCTION AREA TURNING ROUGH IT PARALLEL UPSTREAM OF THE PROJECT CONSTRUCTION AREA TURNING ROUGH IT PARALLEL TORSIC REPORT OF THE PROJECT OF THE

2. DEWATER EXCAVATION IN ACCORDANCE WITH TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES NOTE 4.

S. PERFORM REQUIRED CONSTRUCTION ACTIVITIES IN THE AREA ENCLOSED BY THE COFFERDAM.

4. UPON COMPLETION OF CONSTRUCTION, REMOVE THE TEMPORARY COFFERDAM.

OPTION 3 IN-STREAM COFFERDAM DIVERSION

STANDARD E&S WORKSHEET # 21 Temporary and Permanent Vegetative Stabilization Specification

LOCATION, ENT OF TREADSLIPMS, PREADSLIPMS, PS.

PREPARABED BY: 07

DATE: 2002-12-19

*SPECIES: ANNUAL RYE

%	100	% PURE LIVE SEED:		
LB./ACRE	40	APPLICATION RATE:		
(X-X-X)	50-50-50	FERTILIZER TYPE:		
LB./ACRE	150	FERTILIZER APPL. RATE:		
T./ACRE	1	LIMING RATE:		
	STRAW	MULCH TYPE:		
TJACRE	3.0	MULCHING RATE:		
IN.		TOPSOIL PLACEMENT DEPTH:	(PERMANENT)	
	SEE LANDSCAPING SPECIFICATIONS	*SPECIES:		
%		% PURE LIVE SEED:		
LB./ACRE		APPLICATION RATE		
(X-X-X)		FERTILIZER TYPE:		
LB./ACRE		FERTILIZER APPL. RATE:		
TJACRE		LIMING RATE:		
100000000000000000000000000000000000000		MULCH TYPE:		
T./ACRE		MULCHING RATE:		
		ANCHOR MATERIAL:		
		ANCHORING METHOD:		
LB./ACRE		E OF ANCHOR MATERIAL APPL.:	RATI	
90.000000000000000000000000000000000000		SEEDING SEASON DATES:		

specification will be used for this project:

(PERMANE)	NT - STEEP SLOPE) TOPSOIL PLACEMENT DEPTH:		
	*SPECIES:	Hard Feecus Mix (50%), Creeping R	ed Fescur (35%), Armusi Ryegrass I
	% PURE LIVE SEED:	97	
	APPLICATION RATE:	48	LB./AC
	FERTILIZER TYPE:	10-20-20	(X-)
	FERTILIZER APPL, RATE:	675	LB./AC
	LIMING RATE:	2	T./AC
	MULCH TYPE:	STRAW	7

ANCHOR MATERIAL: ENDIRIO CONTROL BLANKET
ANCHORINO METHOD:
STANDE SEE ENDIROL PLANS:

RATE OF ANCHOR MATERIAL APPL:

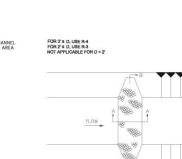
STANDE SEE ENDIROL PLANS:

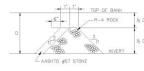
LB.
SEEDING SEASON DATES:
MARCH 15-JUNE AND AUGUST 1-OCTOBER 15

"If more than one species is used, includes application rate for each species."

Note: This worksheet should be added to the plan drawings.

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AASHTO #57 STONE SECTION A-A FOLCOWERS FULL CHARGE WITCH (MM)

SECTION B-B

PLAN VIEW

	TOUT OILL	RIPRAP S	D (FT.)	LOCATION	FILTER NO.
1 ALL ROCK FILTERS 3.0	R-4	R-4	3.0	ALL ROCK FILTERS	1

1. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTER

2. IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL, INSTALLER SHALL REMOVE ACCUMULATED SEDIMENT, REMOVE ROCK FILTER, AND STABILIZE DISTURBED AREAS.

ES-4-14 ROCK FILTER

		s\fow.
		97556\cad\sheets
		2019\jn197556
	DESCRIPTION	projects\20
	REV	2

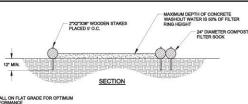
Let's be friends.

FRIENDS

OF THE

WISSAHICKON





TES:
INSTALL ON FLAT GRADE FOR OPTIMUM
PERFORMANCE
18* DIAMETER FILTER SOCK MAY BE STACKED
ONTO DOUBLE 24* DIAMETER SOCKS IN
PYRAMIDAL CONFIGURATION FOR ADDED
HEIGHT. 2"X2"X36" WOODEN STAKES PLACED 5' O.C. DIRECT CONCRETE WASHOUT WATER INTO FILTER RING 24° DIAMETER COMPOST FILTER SOCK, 4° MIN. OVERLAP ON UPSLOPE SIDE OF FILTER RING

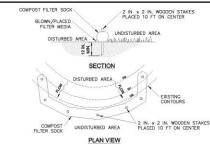
> PLAN ANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT

COMPOST SOCK WASHOUT NOT TO SCALE

Material Type	3 mil HDPE	6 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)
Material Characteristics	Photo- degradable	Photo- degradable	Bio- degradable	Photo- degradable	Photo- degradable
Sock Diameters	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12° 18° 24° 32°	12° 18" 24° 32"
Mesh Opening	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)	23% at 1000 hr.	23% 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-pl	y systems		
				HDPE biaxial n	
Inner C	ontainment Ne	tting	Fusion-welded junctures 3/4" X 3/4" Max. aperture size		
Oute	r Filtration Me	sh	Com (Wove mechan	" X 3/4" Max. aperi posite Polypropyle in layer and non-w nically fused via no 3/16" Max. apertur	ene Fabric oven fleece redle punch)

	BLE 4.2 st Standards
Organic Matter Content	25% - 100% (dry weight basis)
Organic Portion	Fibrous and elongated
pH	5.5 - 8.5
Moisture Content	30% - 60%
Particle Size	98% pass through 3/8" sieve
Soluble Salt Concentration	5.0 dS/m (mmhos/cm) Maximum

ES-3-15 SOCK FABRIC AND COMPOST STANDARDS



SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE, BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT, MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER 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. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 8 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

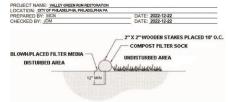
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT

COMPOST FILTER SOCKS

SOCK NO.	Dia. In.	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
N/A	18"	TEMPORARY STOCKPILES	25% MAX	8° MIN
			12	

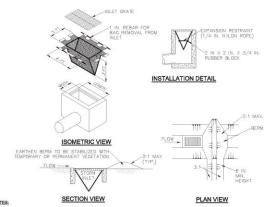
ES-4-1 COMPOST FILTER SOCK

STANDARD E&S WORKSHEET #1



SOCK NO.	Dia. In.	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
N/A	18"	TEMPORARY STOCKPILES	25% MAX	8' MIN
			-	
			_	
			_	
			_	
	3			

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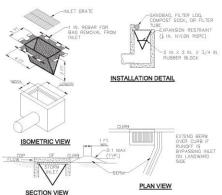
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP, BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED 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 REMAIN DEPMANENT.

INLET FILTER DAGS SHALL BE INDRECTED ON A VERXLY BASIS AND AFTER FACH RUNGET FARENT BAGS SHALL BE EMPITED AND RIVESTO OR REPLACED.
WHEN HAUF FILL ON HYBEN FLOW CHARACTY HAS BEEN REVUICED SO AS TO COMES FLOODING OR STANSING OF THE NLET DAMAGED OR CLOSSED
BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MANTANED ON SITE FOR REPLACEMENT OF BAGS. ALL REDED REPLAIS SHALL BE INTINTED
MINERATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL LISS BAGS ASCORDING TO THE FLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

FILTER BAG INLET PROTECTION NOT TO SCALE



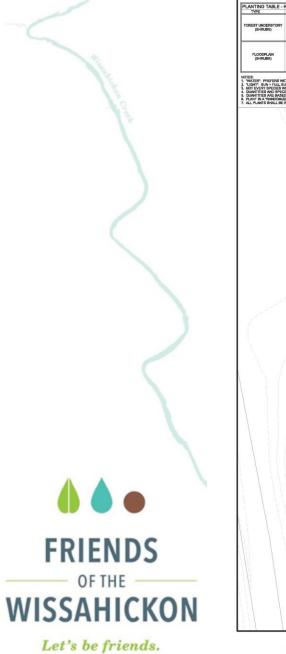
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP, BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

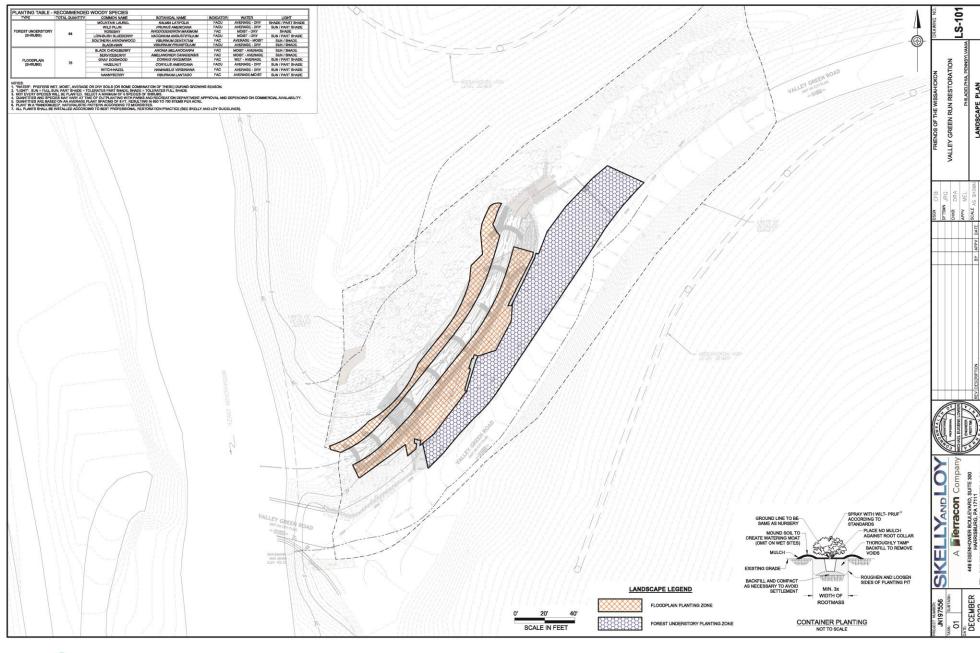
ROLLED EARTHEN BERM SHALL BE MANTANED LUTTL ROADWAY IS STONED, ROAD SUBBAGE BERM SHALL BE MANTANED LUTTL ROADWAY IS PAVED. SIX INCH MINIMAM FERRED FROETH APPIALT BERM SHALL BE MANTANED LUTTL ROADWAY IS PAVED. SIX INCH MINIMAM FERRED FROETH APPIAL TERMS SHALL BE SHALL BE LUTTLE SHALL BE SHALL BE SHALL BE LUTTLE SHALL BE A BINIMAM BERM STENENCH OF SO LISE. FLITER ROAS SHALL BE COPARE OF TRAPPISE ALL PRATICELS NOT PASSION A NO. 40 SIENCE. THE ADMINISTRATION OF THE SHALL BE SHALL BE COPARE OF TRAPPISE ALL PRATICELS NOT PASSION A NO. 40 SIENCE.

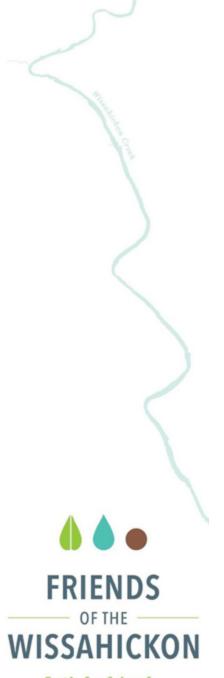
NEET PLITE BAGG SHALL BE REPRECISE ON A VEEKLY BASIS AND AFTER EACH KLINGET PARTY BAGS SHALL BE REPITED AND RINGED OR REPLACED.
WHICH HAIF PLAL OR WHEN PLOW PACKOTY HAS BEEN BEINGLES OR AS TO CAUSE PLACED BY SYNDRINGET IN BLIT DAMAGED OR CAUGGED BAHL BE REPLACED. A BUPLY SHALL BE MANTANED ON SITE FOR REPLACEMENT OF BAGS, ALL REIDED BEPARS SHALL BE MITTATED MANEDATELY AFTER THE REPRECION. DISPOSE OF ROCKOMULATIES SEDEMENT AS WELL AS ALL LUSED BAGS ACCORDING TO THE FANN NOTES.

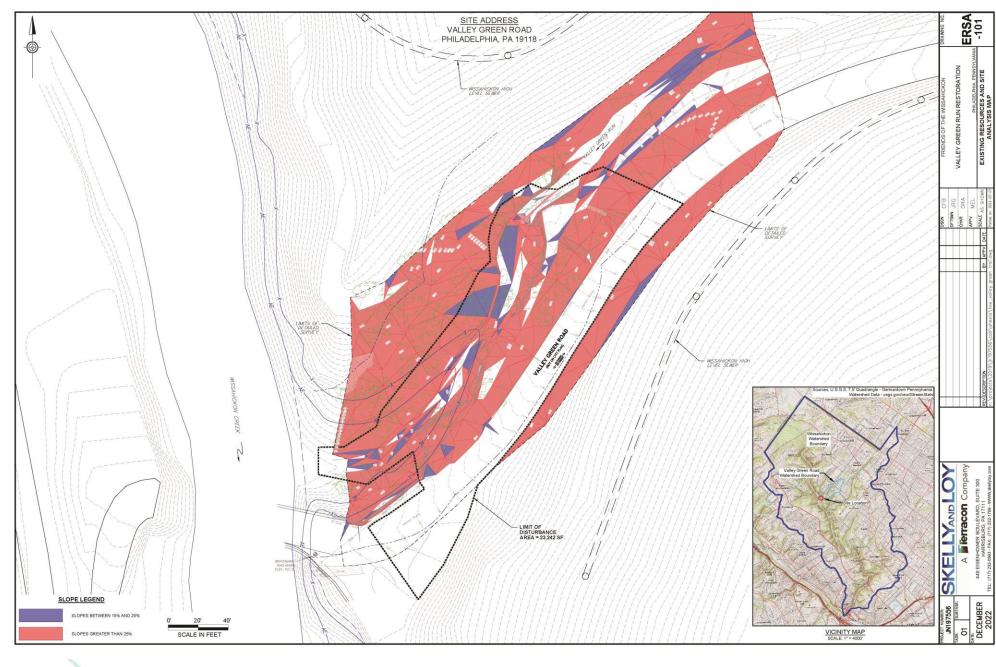
DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS

FILTER BAG INLET PROTECTION CURBED ROADWAY NOT TO SCALE



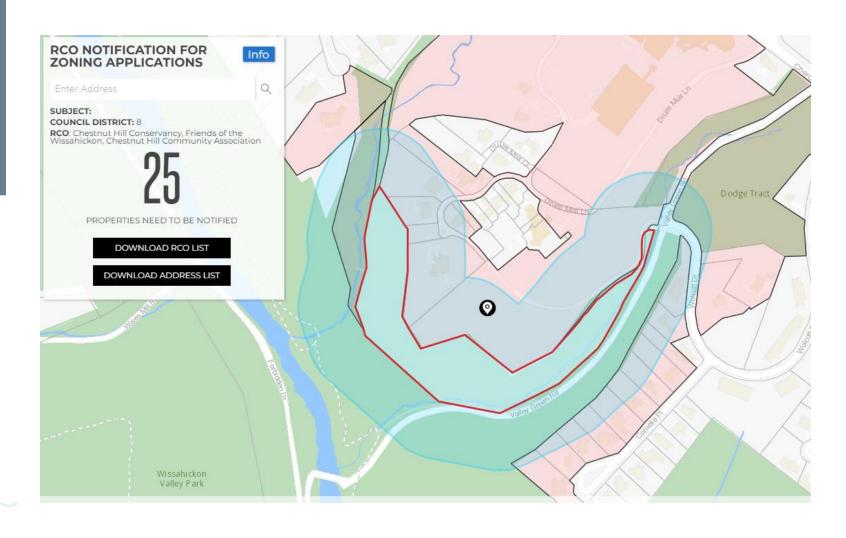






Community Outreach





Important Dates



- September 19 First DRC Meeting
- *September 22 Mail Neighbor Notice Letters
- *October 5th Potential Meetings with Chestnut Hill Conservancy and CHCA's Land Use, Planning and Zoning Committee
- October 17 Second DRC Meeting / OFFICIAL RCO Meeting
- October 26 CHCA Board Meeting
- November 14 at 9:30 a.m. ZBA Hearing



Thank you