

DISTRICT	COUNTY	TOWNSHIP	BOROUGH	ROUTE	SECTION	TOTAL SHEETS		
6-0	PHILADELPHIA	PHILADELPHIA		-	-	29		
WBS ELEMENT								
T/P	SYS	WO	SPUR	PHA	SECTION	ORG	PRG	P-C

SHEET SET LIST	
DRAWING SET	NUMBER OF SHEETS
CIVIL SET	29
LANDSCAPE SET	16
STRUCTURE SET	3
ELECTRICAL SET	7

SCHUYLKILL RIVER DEVELOPMENT CORPORATION

CIVIL DRAWINGS

FOR

CONSTRUCTION

OF

THE SCHUYLKILL RIVER TRAIL EXTENSION – SOUTH STREET TO CHRISTIAN STREET
IN PHILADELPHIA COUNTY, PENNSYLVANIA

FROM STA. 99+56.00 TO STA. 113+68.00 LENGTH 1412.00 FT, 0.27 MI.

SCALE

HORIZONTAL 0 25 50 FEET

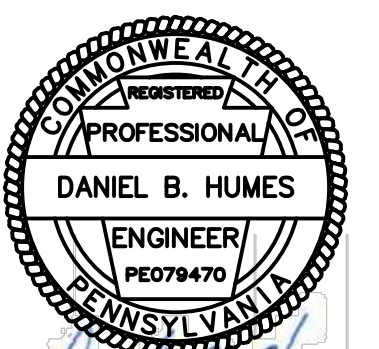
VERTICAL 0 5 10 FEET

DESIGN DESIGNATION

HIGHWAY CLASSIFICATION – SHARED USE PATH
DESIGN SPEED – 20 MPH
PAVEMENT WIDTH – 12'-0"
SHOULDER WIDTH – 2'-0" (NON-PAVED)

CONFORMED SET

PREPARED BY:
URBAN ENGINEERS, INC.
530 WALNUT STREET, 7TH FL.
PHILADELPHIA, PA 19106
215-922-8080



DATE: NOVEMBER 2015

GENERAL NOTES:

- A FIELD SURVEY OF THE SITE WAS PERFORMED BY PENNONI ASSOCIATES IN JANUARY, FEBRUARY AND MARCH 2011.
- UNLESS SPECIFICALLY STATED OR SHOWN HEREON TO THE CONTRARY, THIS SURVEY IS MADE SUBJECT TO AND DOES NOT LOCATE OR DELINEATE:
 - RIGHTS OR INTERESTS OF THE UNITED STATES OF AMERICA OR COMMONWEALTH OF PENNSYLVANIA OVER LANDS NOW OR FORMERLY FLOWED BY TIDEWATER BUT NO LONGER VISIBLE OR PHYSICALLY EVIDENT, OR LANDS CONTAINING ANY ANIMAL, MARINE, OR BOTANICAL SPECIES REGULATED BY OR UNDER THE JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL AGENCY.
 - BUILDING SETBACK LINES, ZONING REGULATIONS OR LINES ESTABLISHED BY ANY FEDERAL, STATE OR LOCAL AGENCY WHICH MAY AFFECT THE BUILDING OR DEVELOPMENT POTENTIAL OF THE SUBJECT PROPERTY.
 - ANY SUBSURFACE OR SUBTERRANEAN CONDITION, EASEMENTS OR RIGHTS INCLUDING BUT NOT LIMITED TO MINERAL OR MINING RIGHTS, OR THE LOCATION OF OR RIGHTS TO ANY SUBSURFACE STRUCTURES, CONTAINERS OR FACILITIES OR ANY OTHER NATURAL OR MAN-MADE SUBSURFACE CONDITION WHICH MAY OR MAY NOT AFFECT THE USE OR DEVELOPMENT POTENTIAL OF THE SUBJECT PROPERTY.
- LOCATIONS OF ON AND OFF SITE UTILITIES AS SHOWN ARE APPROXIMATE AND MAY OR MAY NOT BE COMPLETE. THE NATURE AND EXACT LOCATION OF EXISTING UTILITIES SHOULD BE VERIFIED PRIOR TO INITIATING ANY ACTIVITY THAT MAY AFFECT THEIR USE OR LOCATION.
 - THE LOCATION OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING UTILITY RECORDS AVAILABLE AT THE TIME THESE PLANS WERE PREPARED AND FROM SURFACE OBSERVATION OF THE SITE.
 - COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND STRUCTURES IS NOT GUARANTEED.
 - THE DESIGNER OF RECORD CONTACTED PA-ONE CALL IN ACCORDANCE WITH PA ACT 287 OF 1974 AS AMENDED BY PA ACT 121 OF 2008 ENTITLED "UNDERGROUND UTILITY LINE PROTECTION LAW". (1-800-242-1776)
 - IN ACCORDANCE WITH PA ACT 287 OF 1974 AS AMENDED BY PA ACT 121 OF 2008 ENTITLED "UNDERGROUND UTILITY LINE PROTECTION LAW", THE CONTRACTOR SHALL NOTIFY ALL UTILITIES WITHIN THE WORK AREA VIA THE PENNSYLVANIA ONE CALL SYSTEM, INC. (800-242-1776 OR 811) A MINIMUM OF 3 WORKING DAYS BEFORE THE START OF EXCAVATION.
 - THE CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES AND STRUCTURES BEFORE THE START OF WORK.
- THIS SITE IS CURRENTLY ZONED I2 - MEDIUM INDUSTRIAL DISTRICT IN THE CITY OF PHILADELPHIA AND IS SUBJECT TO THE CTR RESIDENTIAL PARKING CONTROL DISTRICT ZONING OVERLAY. FOR COMPLETE ZONING INFORMATION PLEASE REFER TO THE ZONING CODE OF THE CITY OF PHILADELPHIA AS CURRENTLY AMENDED.
- THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT.
 - ALL PROPERTY DIMENSIONS SHOWN ARE IN CITY OF PHILADELPHIA DISTRICT STANDARD MEASURE (DS) UNLESS DESIGNATED (US) TO DENOTE U.S. STANDARD MEASURE.
 - ALL RIGHT-OF-WAY AND PARCEL LINES ARE APPROXIMATE.
- SITE HORIZONTAL DATUM IS BASED ON PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (PA S.P.C.S.), ZONE SOUTH.
- SITE VERTICAL DATUM IS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
- SITE BENCHMARK: CONCRETE MONUMENT LOCATION: NORTHING 234790.34 EASTING 2688138.11 ELEVATION 11.46
- THIS PLAN WAS PREPARED IN ACCORDANCE WITH INSTRUCTIONS OF THE CLIENT, SCHUYLKILL RIVER DEVELOPMENT CORPORATION.
- ATTENTION IS CALLED TO THE ZONING REQUIREMENTS IN THE PHILADELPHIA CODE AS AMENDED.
- THE TREE LOCATIONS SHOWN ON THE SITE PLAN ARE AN APPROXIMATE LOCATION. THE TREES WERE LOCATED BY URBAN ENGINEERS USING GPS ON MARCH 7TH, 2013.
- THE PROJECT UNITS ARE U.S. SURVEY FEET.
- PLACE TYPE III BARRICADES WITH "TRAIL CLOSED" SIGNS AT ALL ENTRANCES UNTIL TRAIL IS OFFICIALLY OPENED.
- PER NRCS'S WEB SOIL SURVEY, THE ENTIRE PROJECT SITE IS U₈ SOIL TYPE.
- CHAPTER 93 DESIGNATION FOR THE SCHUYLKILL RIVER IS A WARM WATER FISHERY (WWF).
- THE SCHUYLKILL RIVER TRAIL EXTENSION WILL BE CONSIDERED A SHARED USE PATH.
- FEMA 100-YEAR FLOOD PLAIN ELEVATION = 16.50'.
- THE FOLLOWING CONTROL POINT DATA INFORMATION WAS PRODUCED BY URBAN ENGINEERS, INC. WHEN ADDITIONAL SURVEY WAS PERFORMED ON MARCH 24, 2013. CONTRACTOR TO VERIFY ACCURACY PRIOR TO USE.

CONTROL POINT #401 NORTHING: 232652.0530 EASTING: 2686149.4060 ELEVATION: 10.728	CONTROL POINT #402 NORTHING: 233095.4060 EASTING: 2686569.393 ELEVATION: 11.336
CONTROL POINT #403 NORTHING: 233343.477 EASTING: 2686795.988 ELEVATION: 11.414	CONTROL POINT #404 NORTHING: 233561.454 EASTING: 2686994.489 ELEVATION: 13.572

FLOOD ZONE INFORMATION:

BY GRAPHIC PLOTTING ONLY, SUBJECT PARCEL AREA IS LOCATED IN ZONE AE SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD (ZONE AE -BASE FLOOD ELEVATION DETERMINED) OF THE FLOOD INSURANCE RATE MAP, PANELS NO. 179 AND 183 OF 230, COMMUNITY MAP NO. 4207570179G AND 4207570183G WHICH BEARS AN EFFECTIVE DATE OF JANUARY 17, 2007. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THE ELEVATION AND ACCURACY OF THIS ZONE. AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR FLOOD INSURANCE IF REQUIRED.

UTILITY INFORMATION:

- COMPANY: COMCAST CABLE AREA 1
ADDRESS: 4400 WAYNE AVE PHILADELPHIA, PA 19140
CONTACT: JACK CLAYTON
EMAIL: JACK_CLAYTON@CABLE.COMCAST.COM
- COMPANY: VERIZON PENNSYLVANIA INC
ADDRESS: 900 RACE STREET, 6TH FLOOR PHILADELPHIA, PA 19107
CONTACT: BRIAN M. MAGEE
EMAIL: BRIAN.M.MAGEE@VERIZON.COM
- COMPANY: AT&T LOCAL SERVICES
ADDRESS: 2315 SALEM ROAD, A 10 CONYERS, GA 30013
CONTACT: NANCY SPENCE
EMAIL: NSPENCE@EMS.ATT.COM
- COMPANY: PECO ENERGY
ADDRESS: 830 S. SCHUYLKILL AVE. PHILADELPHIA, PA 19146
CONTACT: LOU ROBINSON
EMAIL: LOUIS.ROBINSON@EXELONCORP.COM
- COMPANY: LEVEL 3 COMMUNICATIONS LLC
ADDRESS: 1025 ELDORADO BLVD BLDG BOOMFIELD, CO 80021
CONTACT: EMAIL: NETWORKRELOCATIONS@LEVEL3.COM
- COMPANY: VERIZON BUSINESS
ADDRESS: 2400 N GLENVILLE RICHARDSON, TX 75082
CONTACT: TOM ROBERTS
EMAIL: TOM.H.ROBERTS@VERIZONBUSINESS.COM
- COMPANY: ABOVENET COMMUNICATIONS (ZAYO GROUP)
ADDRESS: 170 ROBBINS ROAD DOWNINGTON, PA 19335
CONTACT: CHRIS RICCIUTI
EMAIL: CHRIS.RICCIUTI@ZAYO.COM
- COMPANY: PHILADELPHIA CITY WATER DEPARTMENT
ADDRESS: 1101 MARKET STREET 2ND FLOOR, ARA TOWER PHILADELPHIA, PA 19107-2994
CONTACT: FRANK MAWSON
EMAIL: FRANK.MAWSON@PHILA.GOV
- COMPANY: PHILADELPHIA CITY DEPT OF STREETS
ADDRESS: ROOM 940 MSB 1401 JFK BLVD PHILADELPHIA, PA 19102-1676
CONTACT: JOSEPH KISIEL
EMAIL: JOSEPH.KISIEL@PHILA.GOV
- COMPANY: PHILADELPHIA GAS WORKS
ADDRESS: 800 W MONTGOMERY AVE PHILADELPHIA, PA 19122
CONTACT: THOMAS PENDERGAST
- COMPANY: VEOLIA ENERGY PHILADELPHIA, INC. (TQ)
ADDRESS: 2600 CHRISTIAN STREET PHILADELPHIA PA 19146

*UTILITY CONTACTS AS LISTED FROM THE 'COMMITTEE OF HIGHWAYS SUPERVISORS MEMBERSHIP', DATED MAY 23, 2013.

PLAN REFERENCES:

- PWD SEWER OUTFALL #826 OBTAINED FROM PWD TICKET 315555.
- PECO ELECTRIC DUCT BANK LOCATION WAS OBTAINED FROM PECO'S BAINBRIDGE ST. & SCHUYLKILL RIVER CONDUIT MAP. PLAN NUMBER 311.
- PIER AND BULKHEAD LINE LOCATION OBTAINED FROM CITY PLAN NO. 11-2 ENTITLED 'BOUNDED BY SOUTH STREET GRAYS FERRY AVE. PLETZ STREET AND THE SCHUYLKILL RIVER' - 30TH WARD OF PHILADELPHIA

CIVIL SHEET SET

TITLE	SHEET NUMBER	DATE
COVER SHEET	1 OF 29	11/2/2015
GENERAL NOTES	2 OF 29	11/2/2015
EXISTING FEATURES & DEMOLITION PLAN - 1	3 OF 29	11/2/2015
EXISTING FEATURES & DEMOLITION PLAN - 2	4 OF 29	11/2/2015
EXISTING FEATURES & DEMOLITION PLAN - 3	5 OF 29	11/2/2015
EXISTING DRAINAGE AREA EXHIBIT	6 OF 29	11/2/2015
SITE & GRADING PLAN 1	7 OF 29	11/2/2015
SITE & GRADING PLAN 2	8 OF 29	11/2/2015
SITE & GRADING PLAN 3	9 OF 29	11/2/2015
SIGNAGE PLAN - 1	10 OF 29	11/2/2015
SIGNAGE PLAN - 2	11 OF 29	11/2/2015
SIGNAGE PLAN - 3	12 OF 29	11/2/2015
EROSION AND SEDIMENT CONTROL PLAN 1	13 OF 29	11/2/2015
EROSION AND SEDIMENT CONTROL PLAN 2	14 OF 29	11/2/2015
EROSION AND SEDIMENT CONTROL PLAN 3	15 OF 29	11/2/2015
EROSION AND SEDIMENT CONTROL - SOIL SAMPLING PLAN	16 OF 29	11/2/2015
EROSION AND SEDIMENT CONTROL DETAILS	17 OF 29	11/2/2015
EROSION AND SEDIMENT CONTROL NOTES-1	18 OF 29	11/2/2015
EROSION AND SEDIMENT CONTROL NOTES-2	19 OF 29	11/2/2015
PCSWM PLAN 1	20 OF 29	11/2/2015
PCSWM PLAN 2	21 OF 29	11/2/2015
PCSWM PLAN 3	22 OF 29	11/2/2015
PCSWM NOTES & DETAILS	23 OF 29	11/2/2015
PROPOSED DRAINAGE AREA EXHIBIT	24 OF 29	11/2/2015
SHARED USE PATH VERTICAL PROFILE - 1	25 OF 29	11/2/2015
SHARED USE PATH VERTICAL PROFILE - 2	26 OF 29	11/2/2015
SHARED USE PATH VERTICAL PROFILE - 3	27 OF 29	11/2/2015
SITE CIVIL DETAIL SHEET	28 OF 29	11/2/2015
TRAIL CROSS SECTIONS DETAIL SHEET	29 OF 29	11/2/2015

LANDSCAPE SHEET SET

TITLE	SHEET NUMBER	DATE
COVER SHEET	1 OF 16	6/12/2015
SITE MATERIALS AND FURNISHINGS PLAN - 1	2 OF 16	6/12/2015
SITE MATERIALS AND FURNISHINGS PLAN - 2	3 OF 16	6/12/2015
SITE MATERIALS AND FURNISHINGS PLAN - 3	4 OF 16	6/12/2015
MATERIALS AND FURNISHINGS PLAN - PLAN ENLARGEMENTS	5 OF 16	6/12/2015
PAVING PLAN ENLARGEMENTS	6 OF 16	6/12/2015
PLANTING PLAN - TREES	7 OF 16	6/12/2015
PLANTING PLAN - SHRUBS, PERENNIALS AND GROUNDCOVER - 1	8 OF 16	6/12/2015
PLANTING PLAN - SHRUBS, PERENNIALS AND GROUNDCOVER - 2	9 OF 16	6/12/2015
PLANTING PLAN - SHRUBS, PERENNIALS AND GROUNDCOVER - 3	10 OF 16	6/12/2015
PLANTING PLAN - SHRUBS, PERENNIALS AND GROUNDCOVER - 4	11 OF 16	6/12/2015
PLANTING PLAN - SHRUBS, PERENNIALS AND GROUNDCOVER - 5	12 OF 16	6/12/2015
SITE DETAILS	13 OF 16	6/12/2015
LANDSCAPE DETAILS	14 OF 16	6/12/2015
PLANTING SOIL DEPTH PLAN	15 OF 16	6/12/2015
IRRIGATION PLAN	16 OF 16	6/12/2015

STRUCTURAL SHEET SET

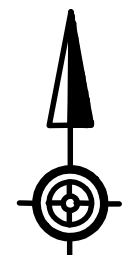
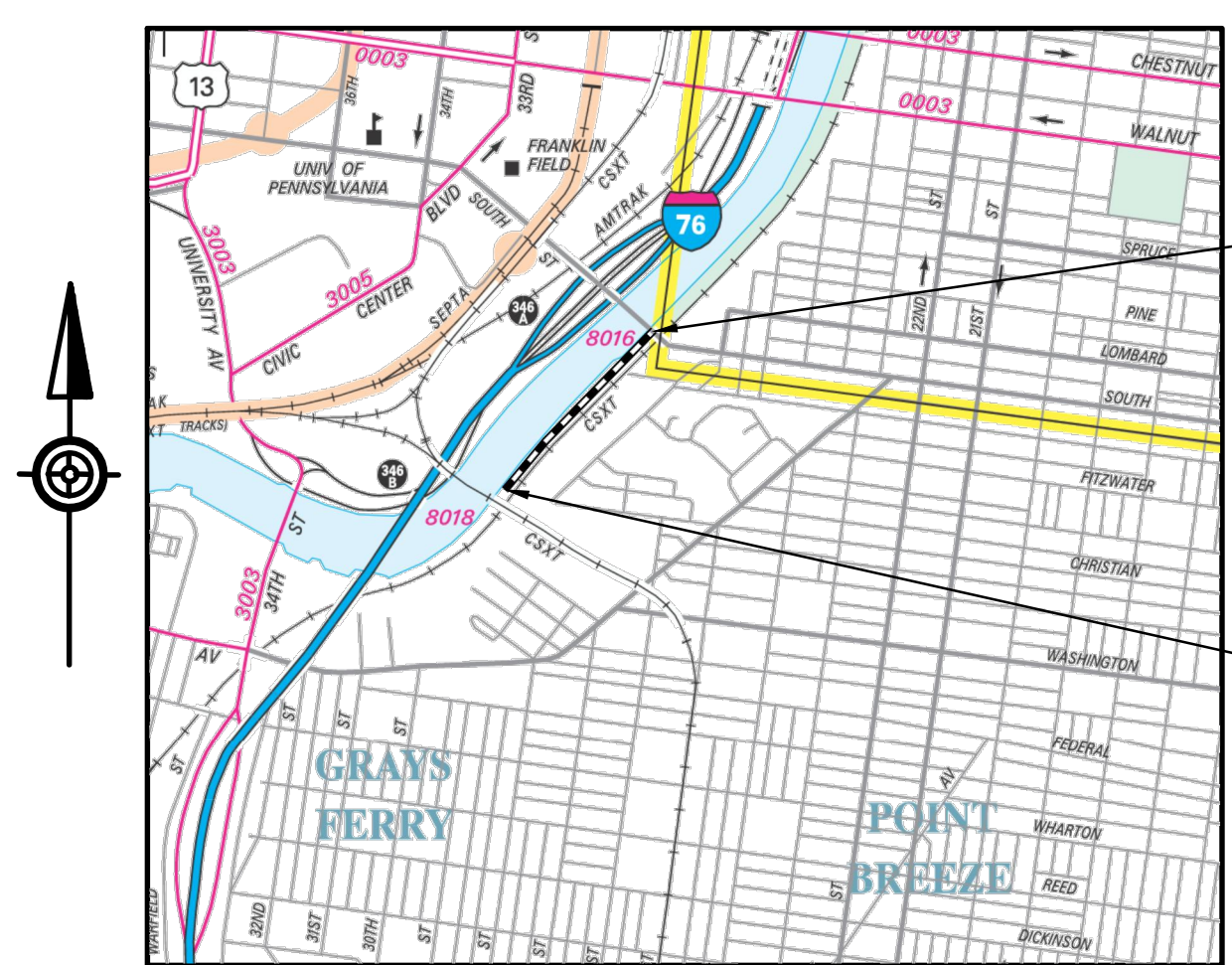
TITLE	SHEET NUMBER	DATE
COVER SHEET	1 OF 3	6/11/2015
CONCEPTUAL STRUCTURE PLAN	2 OF 3	6/11/2015
GENERAL NOTES & TYPICAL SECTION	3 OF 3	6/11/2015

ELECTRICAL SHEET SET

TITLE	SHEET NUMBER	DATE
COVER SHEET	1 OF 7	6/12/2015
GENERAL ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS	2 OF 7	6/12/2015
ELECTRICAL PLAN 1	3 OF 7	6/12/2015
ELECTRICAL PLAN 2	4 OF 7	6/12/2015
ELECTRICAL PLAN 3	5 OF 7	6/12/2015
ELECTRICAL DIAGRAMS, CALCULATIONS, AND SCHEDULES	6 OF 7	6/12/2015
ELECTRICAL DETAILS	7 OF 7	6/12/2015

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	PHILADELPHIA	-		2 OF 29	
CITY OF PHILADELPHIA					
REVISION NUMBER	REVISIONS			DATE	BY
A	CONFORMED SET			11/2/2015	JAB

SCHUYLKILL RIVER TRAIL EXTENSION GENERAL NOTES



LIMIT OF WORK
END OF WORK
@ STATION 113+68.00
CITY OF PHILADELPHIA
PHILADELPHIA COUNTY

LIMIT OF WORK
START OF WORK
@ STATION 99+56.00
CITY OF PHILADELPHIA
PHILADELPHIA COUNTY

LOCATION MAP

**TABULATION OF OVERALL CONSTRUCTION LENGTH
STA 99+56.00 TO STA 113+68.00 = 1412.00 FT, 0.27 MI.**

SUMMARY OF PROJECT COORDINATES BASED ON THE PA STATE PLANE COORDINATE SYSTEM (PA S.P.C.S.), ZONE SOUTH					
RTE	STATION	POINT	COORDINATES		BEARING
			NORTHING	EASTING	
SHARED-USE PATH CONSTRUCTION & SURVEY	99+56.00	POT	232632.46	2686118.02	
	100+25.28	PC	232687.67	2686160.27	
	100+49.23	PI	232706.32	2686175.26	
	100+73.15	PT	232724.25	2686191.11	
	105+57.64	PC	233079.49	2686520.56	
	105+70.96	PI	233089.27	2686529.64	-
	105+84.28	PT	233100.17	2686537.33	
	107+92.41	PC	233270.22	2686657.32	-
	108+05.73	PI	233281.07	2686664.98	-
	108+19.05	PT	233290.90	2686674.09	
	109+25.79	PC	233369.17	2686746.67	-
	109+54.68	PI	233398.41	2686773.78	-
	110+04.51	PT	233415.01	2686810.03	
	110+45.44	PC	233432.06	2686847.25	-
	110+85.71	PI	233449.05	2686884.36	-
111+25.97	PT	233479.23	2686911.84		
113+68.00	POT	233658.51	2687075.11		



PA ONE CALL SERIAL NUMBERS:
#20130491116, #20130491116, #20130491117

CONFORMED SET

EXISTING LEGEND

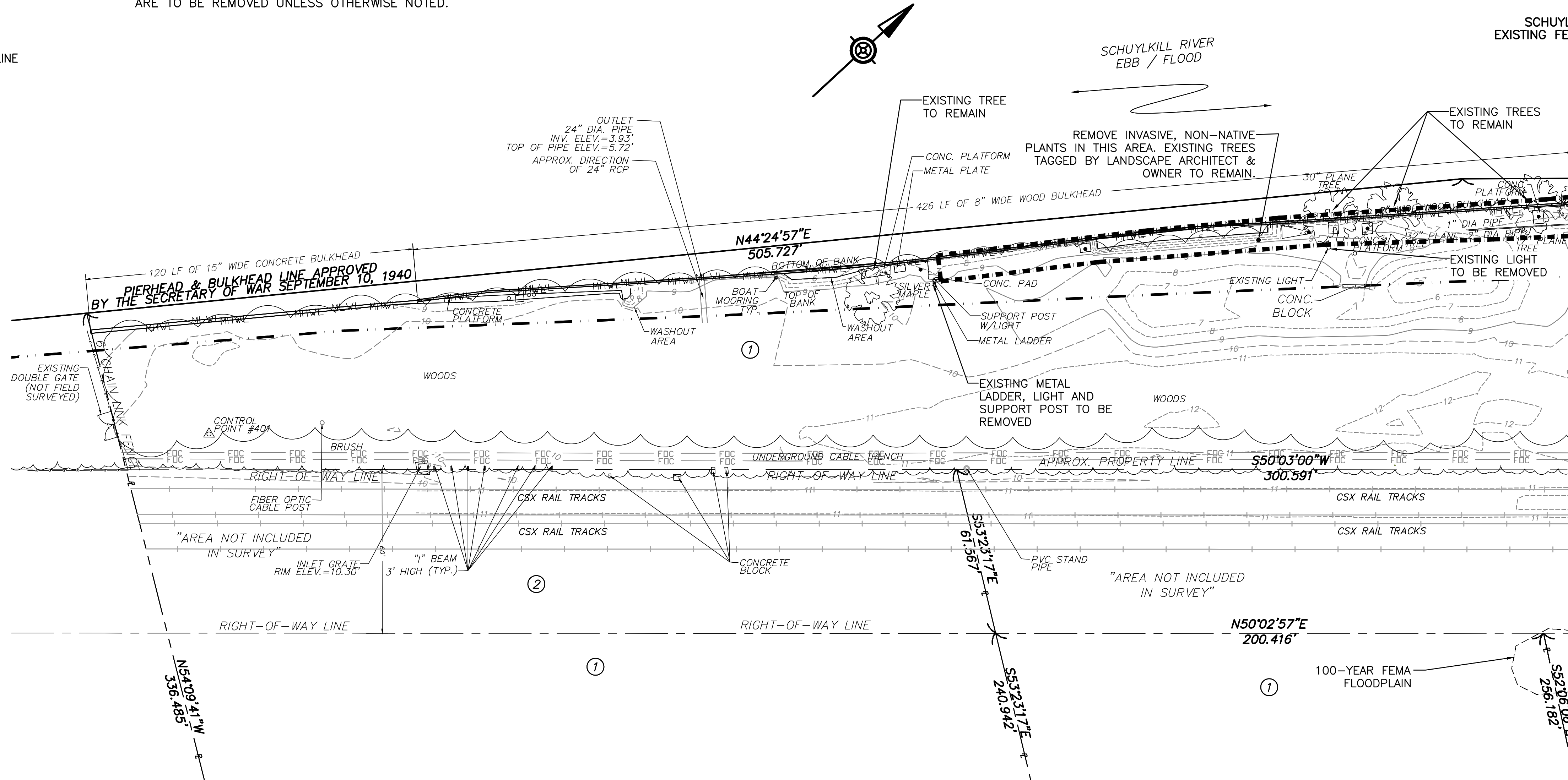
- 100-YEAR FEMA FLOODPLAIN
- FEMA FLOODWAY
- MHWL ----- MEAN HIGH WATER LINE
- PROPERTY/DEED LINE
- LEGAL RIGHT-OF-WAY
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- X----- X----- EXISTING CHAIN LINK FENCE
- FDC ----- EXISTING FIBER OPTIC CABLE
- E ----- EXISTING OVERHEAD ELECTRIC LINE
- ST0 ----- EXISTING STORM LINE
- 6 ----- EXISTING MINOR CONTOUR
- 10 ----- EXISTING MAJOR CONTOUR
- ⊗ EXISTING LIGHT POST
- ⊙ EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- ⊙ EXISTING DECIDUOUS TREE
- ▭ EXISTING CONCRETE
- EXISTING RAIL

EXISTING FEATURES NOTES:

1. PWD COMBINED STORMWATER OUTLET #826 LOCATION WAS OBTAINED FROM PWD RECORD PLAN #315555 AND WAS NOT FIELD LOCATED.
2. PECO DUCT BANK AND MANHOLE LOCATION WAS TAKEN FROM PECO'S 'BAINBRIDGE ST. & SCHUYLKILL RIVER' CONDUIT MAP. PLAN NUMBER 311.
3. SOME EXISTING CONTOUR ELEVATIONS DISPLAY MOUNDS OF DEMOLISHED RUBBLE AND MAY NOT ACCURATELY REPRESENT THE EXISTING GROUND ELEVATION.
4. ENTIRE PROJECT SITE LOCATED WITHIN THE 100-YEAR FEMA FLOODPLAIN.
5. ALL EXISTING TREES WITHIN THE LIMIT OF DISTURBANCE SHOWN ON THE E&S PLANS ARE TO BE REMOVED UNLESS OTHERWISE NOTED.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		3 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

**SCHUYLKILL RIVER TRAIL EXTENSION
EXISTING FEATURES & DEMOLITION PLAN - 1**



SEE SHEET 4

LIST OF PROPERTY OWNERS:

- ① NOW OR FORMERLY PHILADELPHIA ELECTRIC COMPANY
830 SCHUYLKILL AVENUE (BRT ACCOUNT #77260700)
- ② SCHUYLKILL RIVER EAST SIDE
RAILROAD RIGHT-OF-WAY (60' WIDE)
- ③ NOW OR FORMERLY REDEVELOPMENT AUTHORITY OF PHILADELPHIA
780 SCHUYLKILL AVENUE (BRT ACCOUNT #782463000)
- ④ NOW OR FORMELY THE CHILDREN'S HOSPITAL OF PHILADELPHIA
700 SCHUYLKILL AVENUE (BRT ACCOUNT #782462700)
- ⑤ BAINBRIDGE STREET - VACATED 50' WIDE RIGHT-OF-WAY
RESERVED FOR DRAINAGE & PUBLIC UTILITY PURPOSES
- ⑥ NOW OR FORMELY CSX TRANSPORTATION
624R SCHUYLKILL AVENUE (BRT ACCOUNT #302171100)



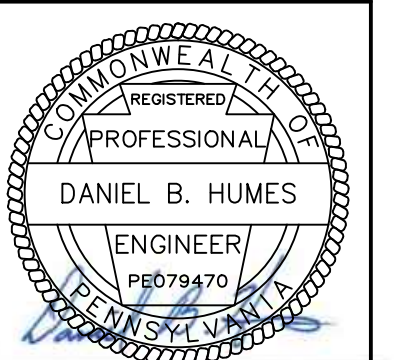
**Know what's below.
Call before you dig.**

PA ONE CALL SERIAL NUMBERS:
#20130491115, #20130491116, #20130491117

EXISTING IMPERVIOUS COVERAGE

LOCATION	AREA	SHEET PAGE
CONCRETE PLATFORM	36 SF	SHEET 3
CONCRETE PLATFORM	15 SF	SHEET 3
CONCRETE PLATFORM	19 SF	SHEET 3
CONCRETE PLATFORM	10 SF	SHEET 3
CONCRETE PLATFORM	17 SF	SHEET 4
CONCRETE MANHOLE	57 SF	SHEET 4
CONCRETE PLAZA	492 SF	SHEET 5
TOTAL IMPERVIOUS COVER	646 SF	-

PREPARED BY:



HORIZONTAL
0 25 50 FEET
CONFORMED SET

EXISTING LEGEND

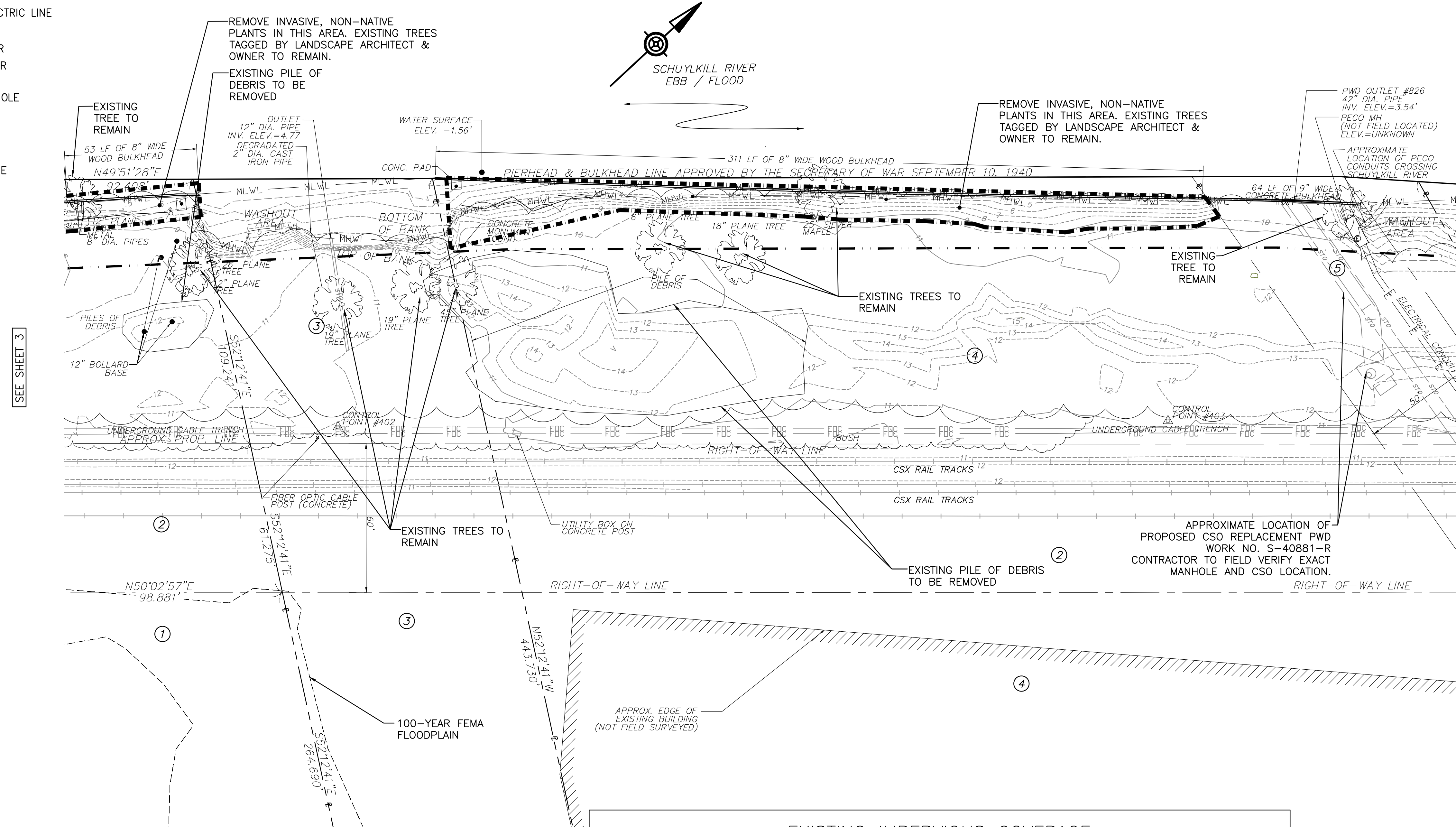
- 100-YEAR FEMA FLOODPLAIN
- FEMA FLOODWAY
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- P----- PROPERTY/DEED LINE
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- EXISTING TREE LINE
- EXISTING BRUSH LINE
- X----- EXISTING CHAIN LINK FENCE
- FDC ----- EXISTING FIBER OPTIC CABLE
- E ----- EXISTING OVERHEAD ELECTRIC LINE
- S70 ----- EXISTING STORM LINE
- 6 ----- EXISTING MINOR CONTOUR
- 10 ----- EXISTING MAJOR CONTOUR
- ⊗ EXISTING LIGHT POST
- ⊙ EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- ⊙ EXISTING DECIDUOUS TREE
- ▭ EXISTING CONCRETE
- EXISTING RAIL

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		4 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

**SCHUYLKILL RIVER TRAIL EXTENSION
EXISTING FEATURES & DEMOLITION PLAN - 2**



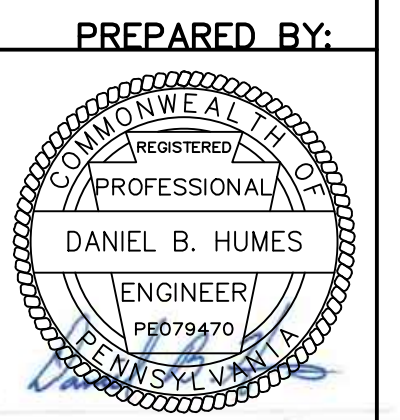
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780 SCHUYLKILL AVENUE (BRT ACCOUNT #782463000)
- ④ NOW OR FORMELY THE CHILDREN'S HOSPITAL OF PHILADELPHIA
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EXISTING IMPERVIOUS COVERAGE

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TOTAL IMPERVIOUS COVER	646 SF	-

HORIZONTAL 0 25 50 FEET



PA ONE CALL SERIAL NUMBERS:
#20130491115, #20130491116, #20130491117

CONFORMED SET

EXISTING LEGEND

- 100-YEAR FEMA FLOODPLAIN
- FEMA FLOODWAY
- MHWL MEAN HIGH WATER LINE
- PROPERTY/DEED LINE
- LEGAL RIGHT-OF-WAY
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- EXISTING CHAIN LINK FENCE
- EXISTING FIBER OPTIC CABLE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING STORM LINE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING LIGHT POST
- EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- EXISTING DECIDUOUS TREE
- EXISTING CONCRETE
- EXISTING RAIL

LIST OF PROPERTY OWNERS:

- ① NOW OR FORMERLY PHILADELPHIA ELECTRIC COMPANY
830 SCHUYLKILL AVENUE (BRT ACCOUNT #77260700)
- ② SCHUYLKILL RIVER EAST SIDE
RAILROAD RIGHT-OF-WAY (60' WIDE)
- ③ NOW OR FORMERLY REDEVELOPMENT AUTHORITY OF PHILADELPHIA
780 SCHUYLKILL AVENUE (BRT ACCOUNT #782463000)
- ④ NOW OR FORMELY THE CHILDREN'S HOSPITAL OF PHILADELPHIA
700 SCHUYLKILL AVENUE (BRT ACCOUNT #782462700)
- ⑤ BAINBRIDGE STREET - VACATED 50' WIDE RIGHT-OF-WAY
RESERVED FOR DRAINAGE & PUBLIC UTILITY PURPOSES
- ⑥ NOW OR FORMELY CSX TRANSPORTATION
624R SCHUYLKILL AVENUE (BRT ACCOUNT #302171100)

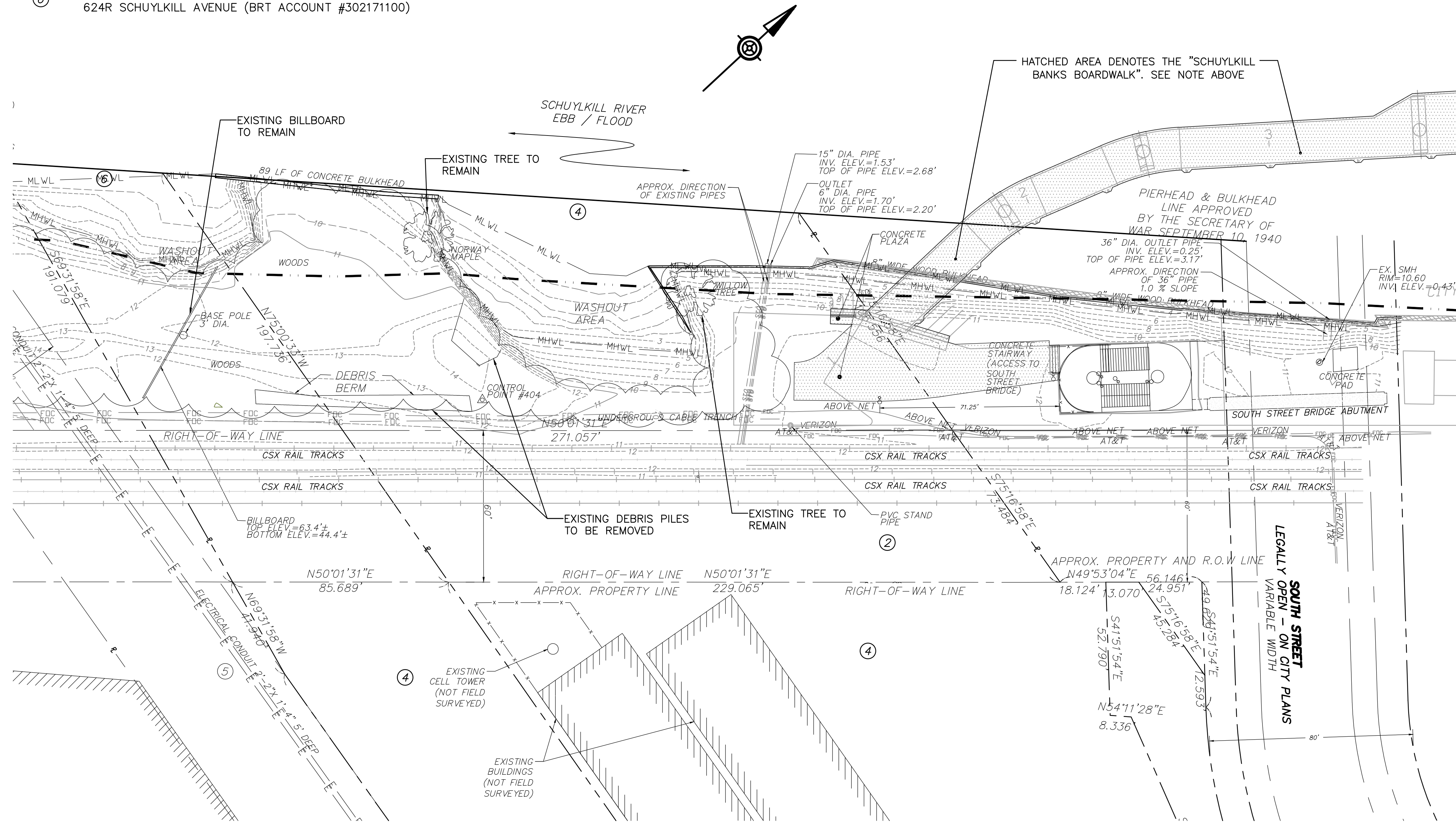
EXISTING FEATURES NOTES:

1. PWD COMBINED STORMWATER OUTLET #826 LOCATION WAS OBTAINED FROM PWD RECORD PLAN #315555 AND WAS NOT FIELD LOCATED.
2. PECO DUCT BANK AND MANHOLE LOCATION WAS TAKEN FROM PECO'S 'BAINBRIDGE ST. & SCHUYLKILL RIVER' CONDUIT MAP. PLAN NUMBER 311.
3. SOME EXISTING CONTOUR ELEVATIONS DISPLAY MOUNDS OF DEMOLISHED RUBBLE AND MAY NOT ACCURATELY REPRESENT THE EXISTING GROUND ELEVATION.
4. ENTIRE PROJECT SITE LOCATED WITHIN THE 100-YEAR FEMA FLOODPLAIN.
5. ALL EXISTING TREES WITHIN THE LIMIT OF DISTURBANCE SHOWN ON THE E&S PLANS ARE TO BE REMOVED UNLESS OTHERWISE NOTED.
6. EXISTING CONDITIONS FOR 'SCHUYLKILL BANKS BOARDWALK' SHOWN BASED ON DESIGN DRAWINGS, BUT NOT SURVEYED IN FIELD.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		5 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

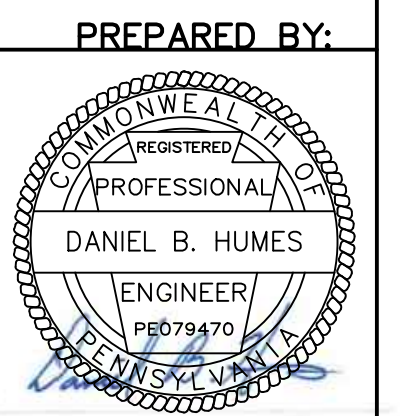
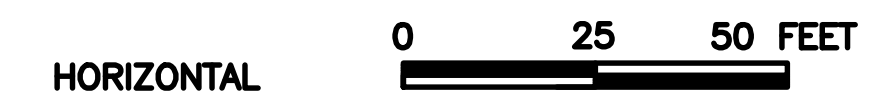
**SCHUYLKILL RIVER TRAIL EXTENSION
EXISTING FEATURES & DEMOLITION PLAN - 3**

SEE SHEET 4



EXISTING IMPERVIOUS COVERAGE

LOCATION	AREA	SHEET PAGE
CONCRETE PLATFORM	36 SF	SHEET 3
CONCRETE PLATFORM	15 SF	SHEET 3
CONCRETE PLATFORM	19 SF	SHEET 3
CONCRETE PLATFORM	10 SF	SHEET 3
CONCRETE PLATFORM	17 SF	SHEET 4
CONCRETE MANHOLE	57 SF	SHEET 4
CONCRETE PLAZA	492 SF	SHEET 5
TOTAL IMPERVIOUS COVER	646 SF	-



CONFORMED SET

EXISTING LEGEND

- 100-YEAR FEMA FLOODPLAIN
- FEMA FLOODWAY
- MHWL ----- MEAN HIGH WATER LINE
- PROPERTY/DEED LINE
- LEGAL RIGHT-OF-WAY
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- X----- X----- EXISTING CHAIN LINK FENCE
- FDC ----- EXISTING FIBER OPTIC CABLE
- E ----- EXISTING OVERHEAD ELECTRIC LINE
- ST0 ----- EXISTING STORM LINE
- 6 ----- EXISTING MINOR CONTOUR
- 10 ----- EXISTING MAJOR CONTOUR
- ⊕ EXISTING LIGHT POST
- ⊙ EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- ⊙ EXISTING DECIDUOUS TREE
- EXISTING CONCRETE
- EXISTING DRAINAGE AREA BOUNDARY
- ← EXISTING FLOW ARROWS

EXISTING FEATURES NOTES:

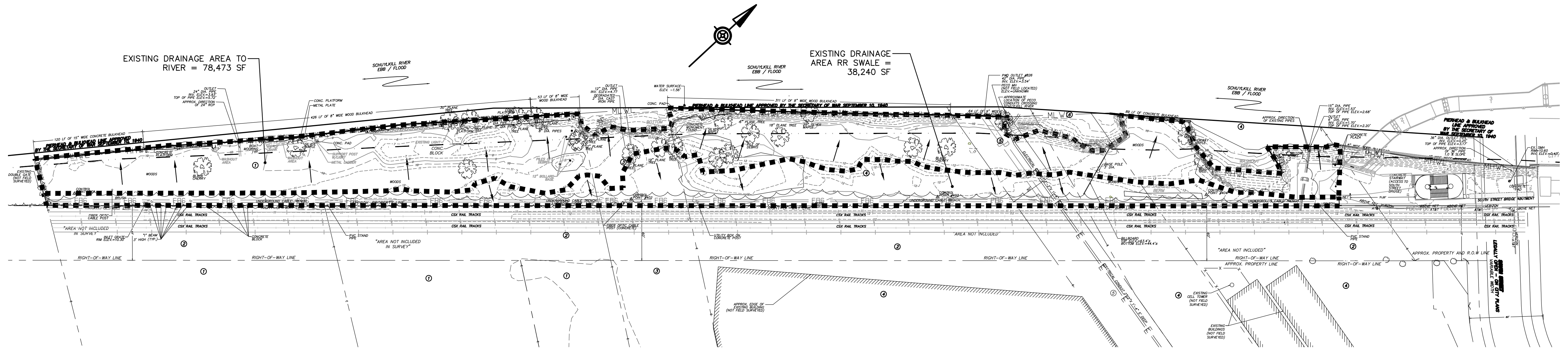
1. PWD COMBINED STORMWATER OUTLET #826 LOCATION WAS OBTAINED FROM PWD RECORD PLAN #315555 AND WAS NOT FIELD LOCATED.

DRAINAGE AREA NOTES:

1. CURVE NUMBER VALVES OBTAINED FROM TABLE 5.4 OF THE PHILADELPHIA WATER DEPARTMENT STORMWATER MANAGEMENT GUIDANCE MANUAL VERSION 2.1 REVISED FEBRUARY 10, 2014.
2. PER NRCS'S WEB SOIL SURVEY, THE ENTIRE PROJECT SITE IS URBAN (U_b) SOIL.
3. CURVE NUMBERS USED IN THE STORMWATER CALCULATIONS ARE BASED ON THE URBAN (U_b) HYDROLOGIC SOIL GROUP.
4. EXISTING PERVIOUS COVER IS ASSUMED TO BE BRUSH COVER IN POOR CONDITION (CN=58).

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		6 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

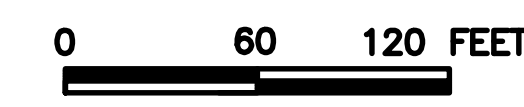
**SCHUYLKILL RIVER TRAIL EXTENSION
EXISTING DRAINAGE AREA EXHIBIT**



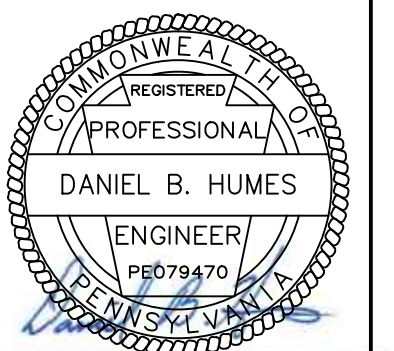
EXISTING DRAINAGE AREAS – SCHUYLKILL RIVER TRAIL

DRAINAGE AREA	IMPERVIOUS COVER (SF)	IMPERVIOUS COVER (AC)	IMPERVIOUS CN	MEADOW (SF)	MEADOW (AC)	MEADOW (CN)	TOTAL AREA (SF)	TOTAL AREA (AC)	COMBINED CN
EXISTING DRAINAGE AREA TO RIVER	646	0.015	98	77,827	1.79	58	78,473	1.80	74.0
EXISTING DRAINAGE AREA TO RAILWAY SWALE	0	0.00	98	38,240	0.88	58	38,240	0.88	73.0

HORIZONTAL



PREPARED BY:



CONFORMED SET

EXISTING LEGEND

- 100-YEAR FEMA FLOODPLAIN
- - - - FEMA FLOODWAY
- MHWL — MEAN HIGH WATER LINE
- P — PROPERTY/DEED LINE
- LEGAL RIGHT-OF-WAY
- ~ ~ ~ EXISTING TREE LINE
- ~ ~ ~ EXISTING BRUSH LINE
- x - x - EXISTING CHAIN LINK FENCE
- FOC - EXISTING FIBER OPTIC CABLE
- E - EXISTING OVERHEAD ELECTRIC LINE
- STO - EXISTING STORM LINE
- 6 - EXISTING MINOR CONTOUR
- 10 - EXISTING MAJOR CONTOUR
- ⊙ EXISTING LIGHT POST
- ⊕ EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- ⊙ EXISTING ROAD SIGN
- EXISTING POST OR POLE
- ⊙ EXISTING DECIDUOUS TREE
- EXISTING CONCRETE
- EXISTING RAIL
- ▲ SOIL SAMPLE LOCATION
- HOT SPOT LOCATION

PROPOSED LEGEND

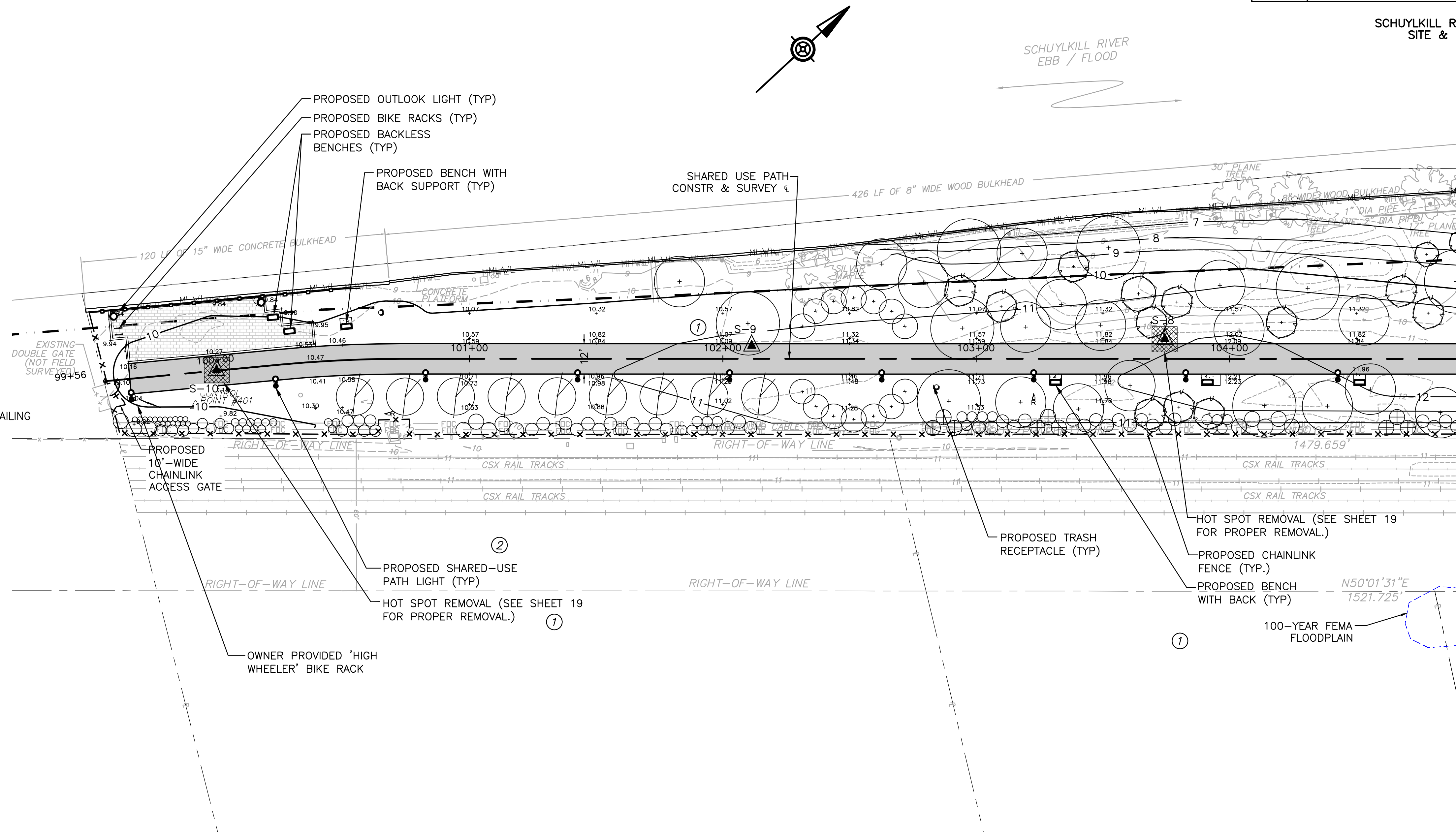
- PROPOSED STEEL PIPE RAILING
- x - x - PROPOSED CHAINLINK FENCE
- PROPOSED STEEL INFILL RAILING
- PROPOSED 'SOUTH STREET' BRIDGE RAILING
- 14 PROPOSED MINOR CONTOUR
- 15 PROPOSED MAJOR CONTOUR
- 11.45 PROPOSED SPOT ELEVATION
- 106+00 PROPOSED STATIONING
- PROPOSED SHARED USE PATH CENTER LINE
- PROPOSED STORMWATER PIPE
- PROPOSED PERMEABLE PAVER
- PROPOSED TRAIL
- PROPOSED CONCRETE
- PROPOSED TREE LOCATIONS
- PROPOSED LIGHT POST
- PROPOSED BENCHES
- PROPOSED TRASH RECEPTACLE
- PROPOSED INTERPRETIVE SIGN
- PROPOSED BIKE RACKS

GENERAL NOTES:

1. FOR TYPE, SIZE AND LOCATION OF PROPOSED TREE PLANTINGS, REFER TO LANDSCAPE SERIES.
2. FOR SOIL SAMPLE RESULTS SEE E&S PLAN SHEETS 13 - 15.
3. DAMAGED AREAS OUTSIDE OF LIMIT OF DISTURBANCE MUST BE REPAIRED TO THE EXISTING CONDITION PRIOR TO PROJECT CONSTRUCTION.
4. ELECTRICAL CONDUIT FOR PATH LIGHTING NOT SHOWN. FOR LOCATION AND SIZE, REFER TO ELECTRICAL SHEET SET.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		7 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

**SCHUYLKILL RIVER TRAIL EXTENSION
SITE & GRADING PLAN 1**

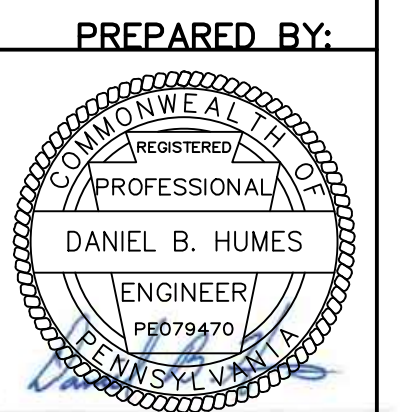


LIST OF PROPERTY OWNERS:

- ① NOW OR FORMERLY PHILADELPHIA ELECTRIC COMPANY
830 SCHUYLKILL AVENUE (BRT ACCOUNT #77260700)
- ② SCHUYLKILL RIVER EAST SIDE
RAILROAD RIGHT-OF-WAY (60' WIDE)
- ③ NOW OR FORMERLY REDEVELOPMENT AUTHORITY OF PHILADELPHIA
780 SCHUYLKILL AVENUE (BRT ACCOUNT #782463000)
- ④ NOW OR FORMELY THE CHILDREN'S HOSPITAL OF PHILADELPHIA
700 SCHUYLKILL AVENUE (BRT ACCOUNT #782462700)
- ⑤ BAINBRIDGE STREET - VACATED 50' WIDE RIGHT-OF-WAY
RESERVED FOR DRAINAGE & PUBLIC UTILITY PURPOSES
- ⑥ NOW OR FORMELY CSX TRANSPORTATION
624R SCHUYLKILL AVENUE (BRT ACCOUNT #302171100)

FOR PROFILE, SEE SHEET 25

HORIZONTAL 0 25 50 FEET



CONFORMED SET

EXISTING LEGEND

- 100-YEAR FEMA FLOODPLAIN
- - - FEMA FLOODWAY
- MHWL — MEAN HIGH WATER LINE
- - - PROPERTY/DEED LINE
- - - LEGAL RIGHT-OF-WAY
- ~ ~ ~ EXISTING TREE LINE
- ~ ~ ~ EXISTING BRUSH LINE
- X — X — EXISTING CHAIN LINK FENCE
- — — EXISTING FIBER OPTIC CABLE
- E — EXISTING OVERHEAD ELECTRIC LINE
- S70 — EXISTING STORM LINE
- - - 6 - - - EXISTING MINOR CONTOUR
- - - 10 - - - EXISTING MAJOR CONTOUR
- ⊕ 8 EXISTING LIGHT POST
- ⊕ EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- ⊙ EXISTING DECIDUOUS TREE
- ⊙ EXISTING CONCRETE
- ▲ EXISTING RAIL
- ▲ SOIL SAMPLE LOCATION
- HOT SPOT LOCATION

PROPOSED LEGEND

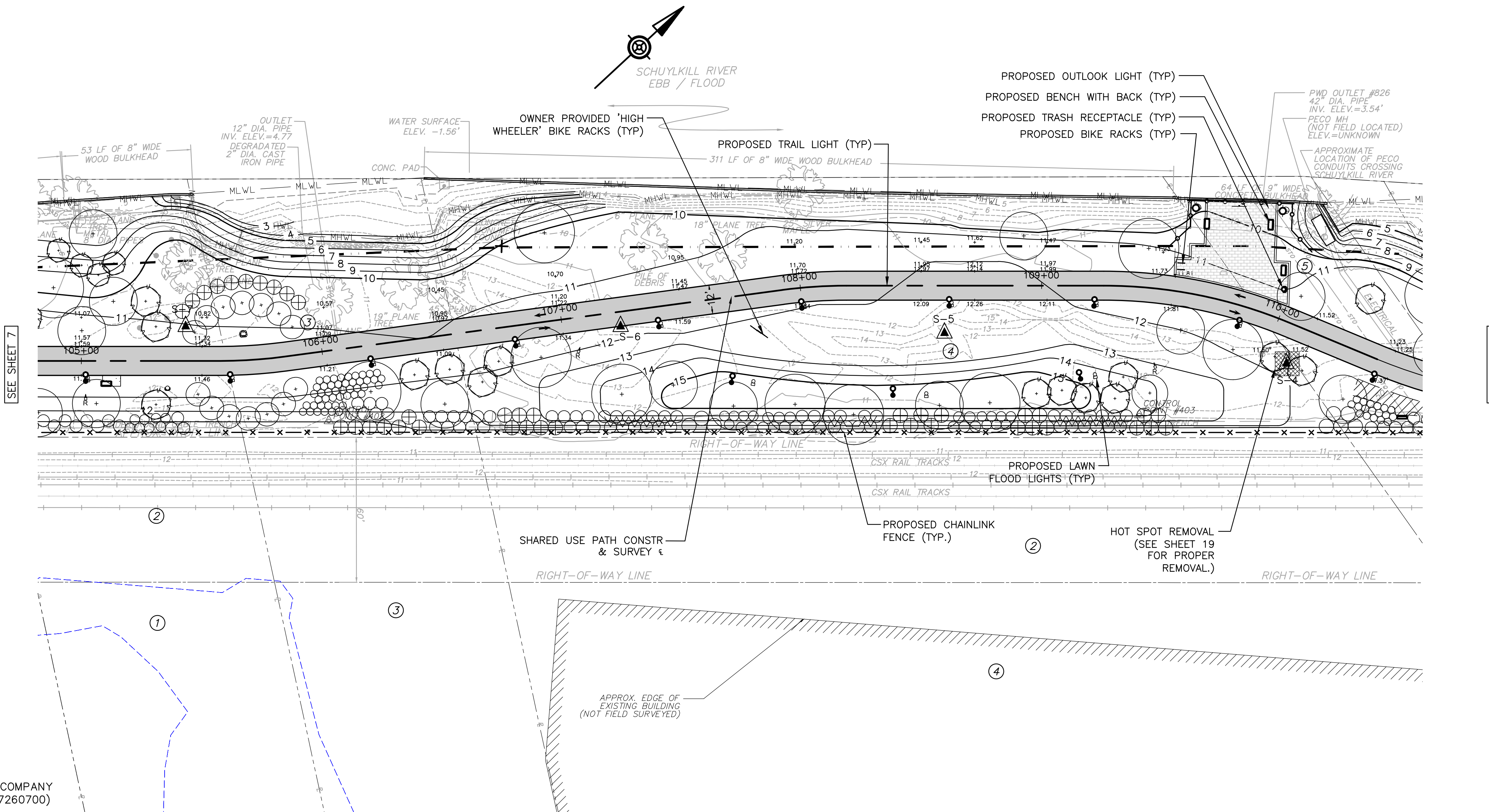
- ○ ○ PROPOSED STEEL PIPE RAILING
- x - x - x PROPOSED CHAINLINK FENCE
- ○ ○ PROPOSED STEEL INFILL RAILING
- 14 — PROPOSED 'SOUTH STREET' BRIDGE RAILING
- 15 — PROPOSED MINOR CONTOUR
- 15 — PROPOSED MAJOR CONTOUR
- 11'45 PROPOSED SPOT ELEVATION
- 106+00 PROPOSED STATIONING
- - - PROPOSED SHARED USE PATH CENTER LINE
- — — PROPOSED STORMWATER PIPE
- PROPOSED PERMEABLE PAVER
- PROPOSED TRAIL
- PROPOSED CONCRETE
- ⊙ ○ PROPOSED TREE LOCATIONS
- ⊕ ● PROPOSED LIGHT POST
- ⊕ ■ PROPOSED BENCHES
- PROPOSED TRASH RECEPTACLE
- - - PROPOSED INTERPRETIVE SIGN
- — — PROPOSED BIKE RACKS

GENERAL NOTES:

1. FOR TYPE, SIZE AND LOCATION OF PROPOSED TREE PLANTINGS, REFER TO LANDSCAPE SERIES.
2. FOR SOIL SAMPLE RESULTS SEE E&S PLAN SHEETS 13 - 15.
3. DAMAGED AREAS OUTSIDE OF LIMIT OF DISTURBANCE MUST BE REPAIRED TO THE EXISTING CONDITION PRIOR TO PROJECT CONSTRUCTION.
4. ELECTRICAL CONDUIT FOR PATH LIGHTING NOT SHOWN. FOR LOCATION AND SIZE, REFER TO ELECTRICAL SHEET SET.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		8 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

**SCHUYLKILL RIVER TRAIL EXTENSION
SITE & GRADING PLAN 2**



LIST OF PROPERTY OWNERS:

- ① NOW OR FORMERLY PHILADELPHIA ELECTRIC COMPANY
830 SCHUYLKILL AVENUE (BRT ACCOUNT #77260700)
- ② SCHUYLKILL RIVER EAST SIDE
RAILROAD RIGHT-OF-WAY (60' WIDE)
- ③ NOW OR FORMERLY REDEVELOPMENT AUTHORITY OF PHILADELPHIA
780 SCHUYLKILL AVENUE (BRT ACCOUNT #782463000)
- ④ NOW OR FORMERLY THE CHILDREN'S HOSPITAL OF PHILADELPHIA
700 SCHUYLKILL AVENUE (BRT ACCOUNT #782462700)
- ⑤ BAINBRIDGE STREET - VACATED 50' WIDE RIGHT-OF-WAY
RESERVED FOR DRAINAGE & PUBLIC UTILITY PURPOSES
- ⑥ NOW OR FORMERLY CSX TRANSPORTATION
624R SCHUYLKILL AVENUE (BRT ACCOUNT #302171100)

FOR PROFILE, SEE SHEET 26

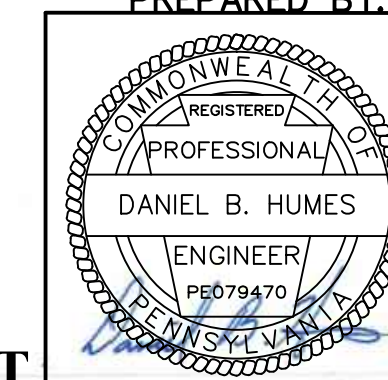


HORIZONTAL



CONFORMED SET

PREPARED BY:

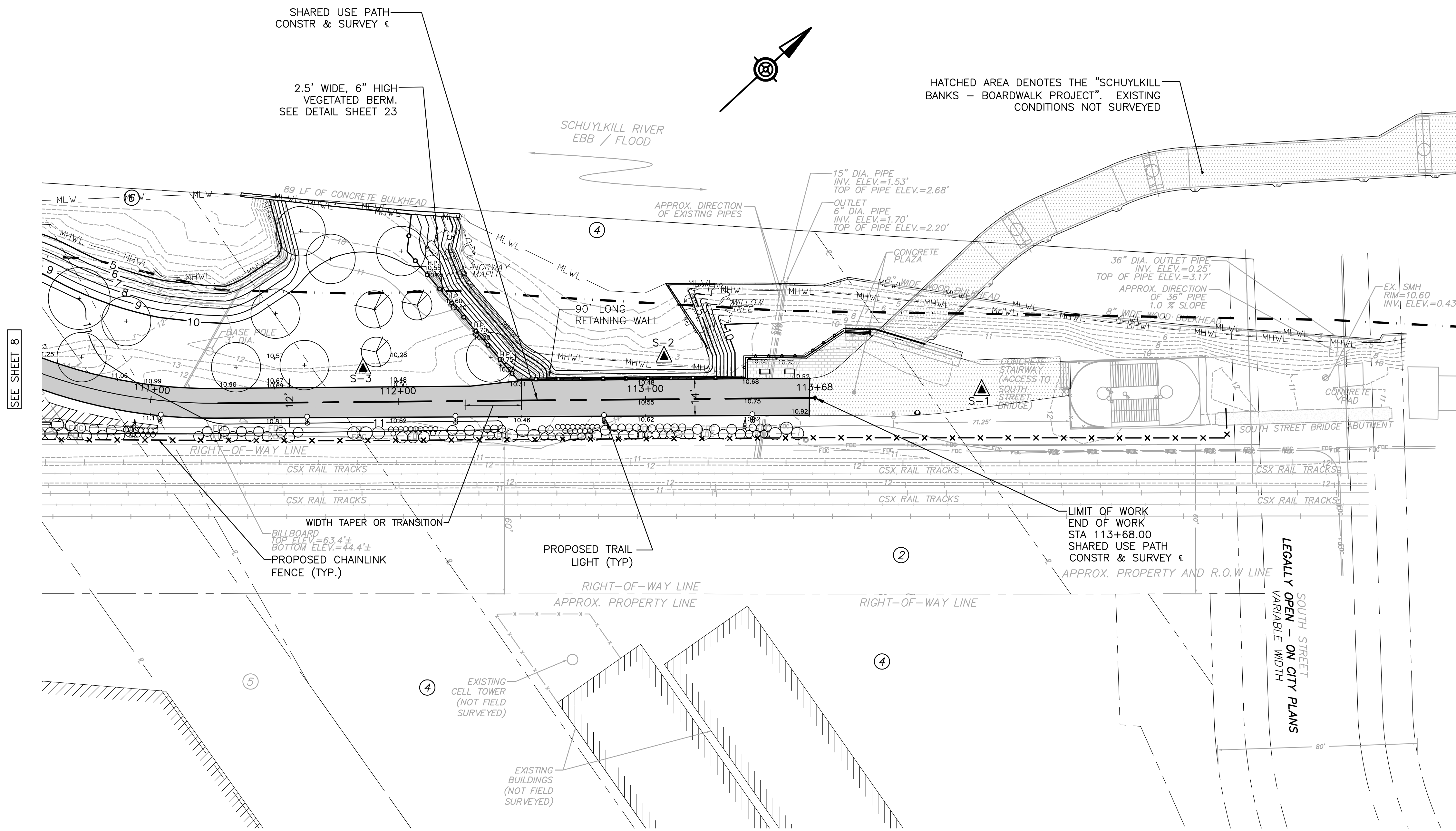


DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		9 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

**SCHUYLKILL RIVER TRAIL EXTENSION
SITE & GRADING PLAN 3**

GENERAL NOTES:

- FOR TYPE, SIZE AND LOCATION OF PROPOSED TREE PLANTINGS, REFER TO LANDSCAPE SERIES.
- FOR SOIL SAMPLE RESULTS SEE E&S PLAN SHEETS 13 - 15.
- DAMAGED AREAS OUTSIDE OF LIMIT OF DISTURBANCE MUST BE REPAIRED TO THE EXISTING CONDITION PRIOR TO PROJECT CONSTRUCTION.
- ELECTRICAL CONDUIT FOR PATH LIGHTING NOT SHOWN. FOR LOCATION AND SIZE, REFER TO ELECTRICAL SHEET SET.



EXISTING LEGEND

- 100-YEAR FEMA FLOODPLAIN
- FEMA FLOODWAY
- MHWL — MEAN HIGH WATER LINE
- P — PROPERTY/DEED LINE
- L — LEGAL RIGHT-OF-WAY
- ~ ~ ~ EXISTING TREE LINE
- ~ ~ ~ EXISTING BRUSH LINE
- x — x — EXISTING CHAIN LINK FENCE
- FDC — EXISTING FIBER OPTIC CABLE
- E — EXISTING OVERHEAD ELECTRIC LINE
- STO — EXISTING STORM LINE
- 6 — EXISTING MINOR CONTOUR
- 10 — EXISTING MAJOR CONTOUR
- ⊕ EXISTING LIGHT POST
- ⊕ EXISTING ELECTRIC MANHOLE
- ⊙ EXISTING BOAT MOORING
- ⊙ EXISTING ROAD SIGN
- ⊙ EXISTING POST OR POLE
- ⊙ EXISTING DECIDUOUS TREE
- EXISTING CONCRETE
- EXISTING RAIL
- ▲ SOIL SAMPLE LOCATION
- HOT SPOT LOCATION

PROPOSED LEGEND

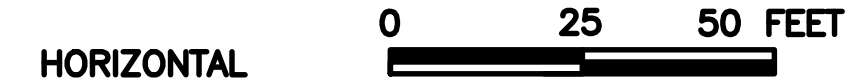
- ○ — ○ — PROPOSED STEEL PIPE RAILING
- x — x — PROPOSED CHAINLINK FENCE
- ○ — ○ — PROPOSED STEEL INFILL RAILING
- — — PROPOSED 'SOUTH STREET' BRIDGE RAILING
- 14 — PROPOSED MINOR CONTOUR
- 15 — PROPOSED MAJOR CONTOUR
- 117.45 PROPOSED SPOT ELEVATION
- 106+00 PROPOSED STATIONING
- — — PROPOSED SHARED USE PATH CENTER LINE
- — — PROPOSED STORMWATER PIPE
- PROPOSED PERMEABLE PAVER
- PROPOSED TRAIL
- PROPOSED CONCRETE
- ⊕ PROPOSED TREE LOCATIONS
- ⊕ PROPOSED LIGHT POST
- ⊕ PROPOSED BENCHES
- ⊕ PROPOSED TRASH RECEPTACLE
- ⊕ PROPOSED INTERPRETIVE SIGN
- — — PROPOSED BIKE RACKS

LIST OF PROPERTY OWNERS:

- NOW OR FORMERLY PHILADELPHIA ELECTRIC COMPANY
830 SCHUYLKILL AVENUE (BRT ACCOUNT #77260700)
- SCHUYLKILL RIVER EAST SIDE
RAILROAD RIGHT-OF-WAY (60' WIDE)
- NOW OR FORMERLY REDEVELOPMENT AUTHORITY OF PHILADELPHIA
780 SCHUYLKILL AVENUE (BRT ACCOUNT #782463000)
- NOW OR FORMELY THE CHILDREN'S HOSPITAL OF PHILADELPHIA
700 SCHUYLKILL AVENUE (BRT ACCOUNT #782462700)
- BAINBRIDGE STREET - VACATED 50' WIDE RIGHT-OF-WAY
RESERVED FOR DRAINAGE & PUBLIC UTILITY PURPOSES
- NOW OR FORMELY CSX TRANSPORTATION
624R SCHUYLKILL AVENUE (BRT ACCOUNT #302171100)



FOR PROFILE, SEE SHEET 27



PREPARED BY:

DANIEL B. HUMES
 ENGINEER
 P.E. NO. 79470
 PENNSYLVANIA

CONFORMED SET

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		10 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

**SCHUYLKILL RIVER TRAIL EXTENSION
HORIZONTAL GEOMETRY, PAVEMENT MARKINGS
AND SIGNAGE PLAN - 1**

EXISTING LEGEND

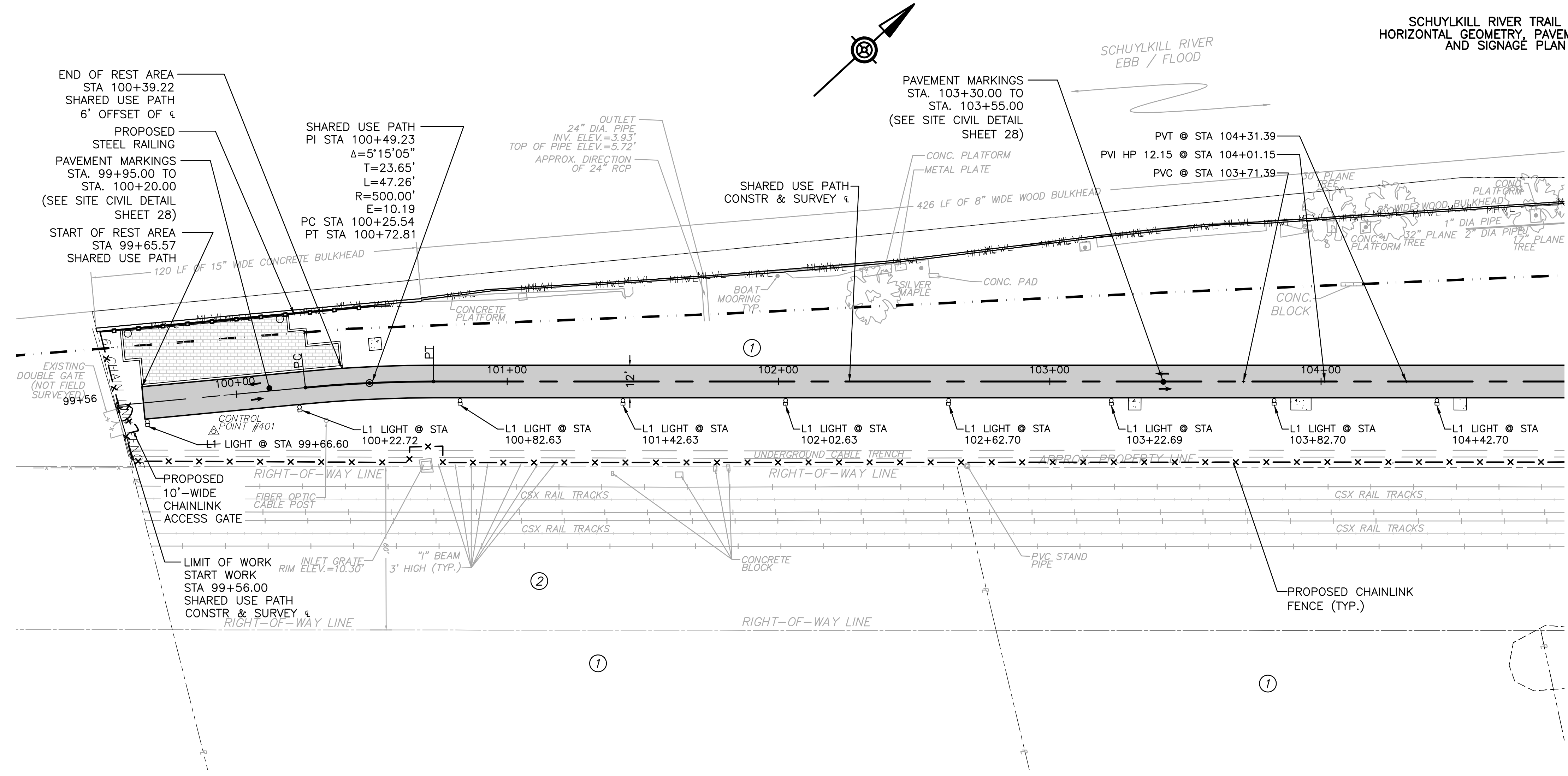
- 100-YEAR FEMA FLOODPLAIN
- FEMA FLOODWAY
- MH/WL MEAN HIGH WATER LINE
- PROPERTY/DEED LINE
- LEGAL RIGHT-OF-WAY
- 6' EXISTING MINOR CONTOUR
- 10' EXISTING MAJOR CONTOUR
- ⊙ EXISTING LIGHT POST
- ⊙ EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- ⊙ EXISTING DECIDUOUS TREE
- ▭ EXISTING CONCRETE
- EXISTING RAIL

PROPOSED LEGEND

- PROPOSED STEEL PIPE RAILING
- × PROPOSED CHAINLINK FENCE
- PROPOSED STEEL INFILL RAILING
- PROPOSED 'SOUTH STREET' BRIDGE RAILING
- 106+00 PROPOSED STATIONING
- PROPOSED SHARED USE PATH CENTER LINE
- ▭ PROPOSED PERMEABLE PAVER
- ▭ PROPOSED TRAIL
- PROPOSED TREE LOCATIONS
- PROPOSED LIGHT POST
- ▭ PROPOSED BENCHES
- PROPOSED TRASH RECEPTACLE

NOTES:

1. ALL TYPE 'L1' LIGHTING FIXTURES ADJACENT TO THE TRAIL SHALL BE INSTALLED 2.2' BETWEEN THE EDGE OF THE TRAIL AND THE CENTER OF THE FIXTURE POLES. CONDUIT SHALL NOT BE ROUTED IN THIS 2' SHOULDER BETWEEN THE FIXTURE POLES AND THE TRAIL EDGE.
2. ELECTRICAL CONDUIT FOR PATH LIGHTING NOT SHOWN. FOR LOCATION AND SIZE, REFER TO ELECTRICAL SET.



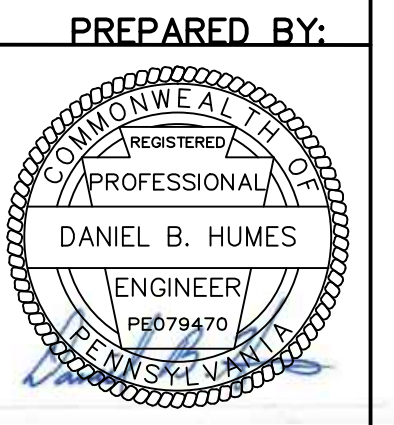
LIST OF PROPERTY OWNERS:

- ① NOW OR FORMERLY PHILADELPHIA ELECTRIC COMPANY
830 SCHUYLKILL AVENUE (BRT ACCOUNT #77260700)
- ② SCHUYLKILL RIVER EAST SIDE
RAILROAD RIGHT-OF-WAY (60' WIDE)
- ③ NOW OR FORMERLY REDEVELOPMENT AUTHORITY OF PHILADELPHIA
780 SCHUYLKILL AVENUE (BRT ACCOUNT #782463000)
- ④ NOW OR FORMELY THE CHILDREN'S HOSPITAL OF PHILADELPHIA
700 SCHUYLKILL AVENUE (BRT ACCOUNT #782462700)
- ⑤ BAINBRIDGE STREET - VACATED 50' WIDE RIGHT-OF-WAY
RESERVED FOR DRAINAGE & PUBLIC UTILITY PURPOSES
- ⑥ NOW OR FORMELY CSX TRANSPORTATION
624R SCHUYLKILL AVENUE (BRT ACCOUNT #302171100)



FOR PROFILE, SEE SHEET 25

HORIZONTAL 0 25 50 FEET



CONFORMED SET

EXISTING LEGEND

- 100-YEAR FEMA FLOODPLAIN
- - - - - FEMA FLOODWAY
- MHWL ----- MEAN HIGH WATER LINE
- PROPERTY/DEED LINE
- LEGAL RIGHT-OF-WAY
- EXISTING MAJOR CONTOUR
- ⊕ EXISTING LIGHT POST
- ⊙ EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- ⊗ EXISTING DECIDUOUS TREE

PROPOSED LEGEND

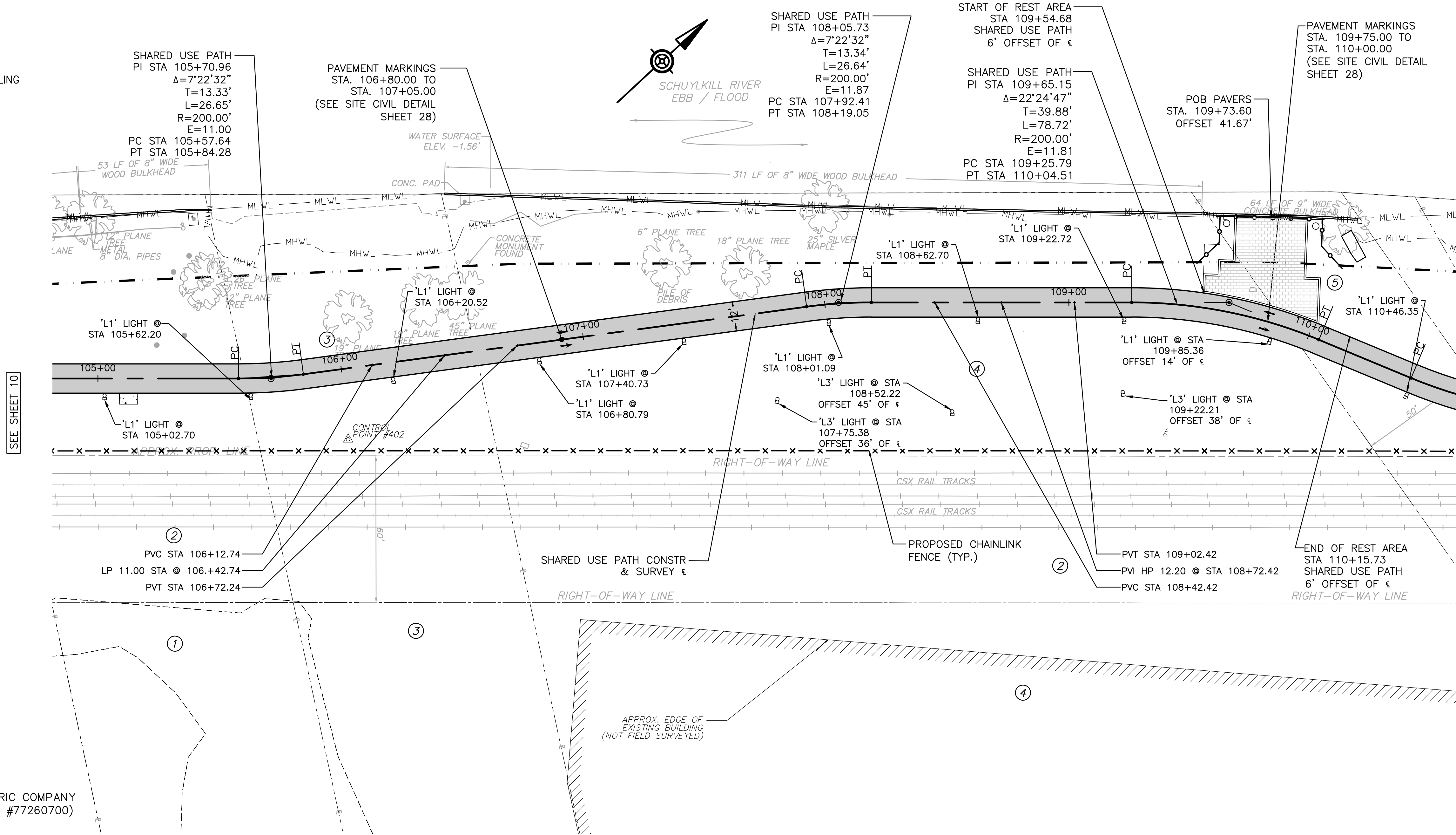
- PROPOSED STEEL PIPE RAILING
- x-x-x-x PROPOSED CHAINLINK FENCE
- PROPOSED STEEL INFILL RAILING
- PROPOSED 'SOUTH STREET' BRIDGE RAILING
- 106+00 PROPOSED STATIONING
- PROPOSED SHARED USE PATH CENTER LINE
- ▨ PROPOSED PERMEABLE PAVER
- ▩ PROPOSED TRAIL
- ▩ PROPOSED CONCRETE
- PROPOSED TREE LOCATIONS
- ⊕ PROPOSED LIGHT POST
- ▭ PROPOSED BENCHES
- PROPOSED TRASH RECEPTACLE

NOTES:

1. ALL TYPE 'L1' LIGHTING FIXTURES ADJACENT TO THE TRAIL SHALL BE INSTALLED 2.2' BETWEEN THE EDGE OF THE TRAIL AND THE CENTER OF THE FIXTURE POLES. CONDUIT SHALL NOT BE ROUTED IN THIS 2' SHOULDER BETWEEN THE FIXTURE POLES AND THE TRAIL EDGE.
2. ELECTRICAL CONDUIT FOR PATH LIGHTING NOT SHOWN. FOR LOCATION AND SIZE, REFER TO ELECTRICAL SET.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		11 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

**SCHUYLKILL RIVER TRAIL EXTENSION
HORIZONTAL GEOMETRY, PAVEMENT MARKINGS
AND SIGNAGE PLAN - 2**

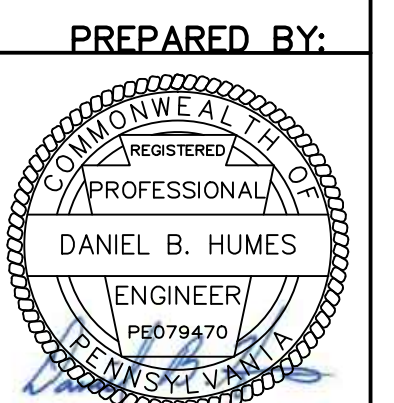
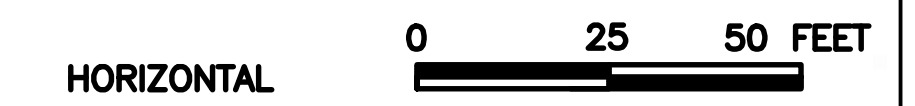


LIST OF PROPERTY OWNERS:

- ① NOW OR FORMERLY PHILADELPHIA ELECTRIC COMPANY
830 SCHUYLKILL AVENUE (BRT ACCOUNT #77260700)
- ② SCHUYLKILL RIVER EAST SIDE
RAILROAD RIGHT-OF-WAY (60' WIDE)
- ③ NOW OR FORMERLY REDEVELOPMENT AUTHORITY OF PHILADELPHIA
780 SCHUYLKILL AVENUE (BRT ACCOUNT #782463000)
- ④ NOW OR FORMELY THE CHILDREN'S HOSPITAL OF PHILADELPHIA
700 SCHUYLKILL AVENUE (BRT ACCOUNT #782462700)
- ⑤ BAINBRIDGE STREET - VACATED 50' WIDE RIGHT-OF-WAY
RESERVED FOR DRAINAGE & PUBLIC UTILITY PURPOSES
- ⑥ NOW OR FORMELY CSX TRANSPORTATION
624R SCHUYLKILL AVENUE (BRT ACCOUNT #302171100)



FOR PROFILE, SEE SHEET 26



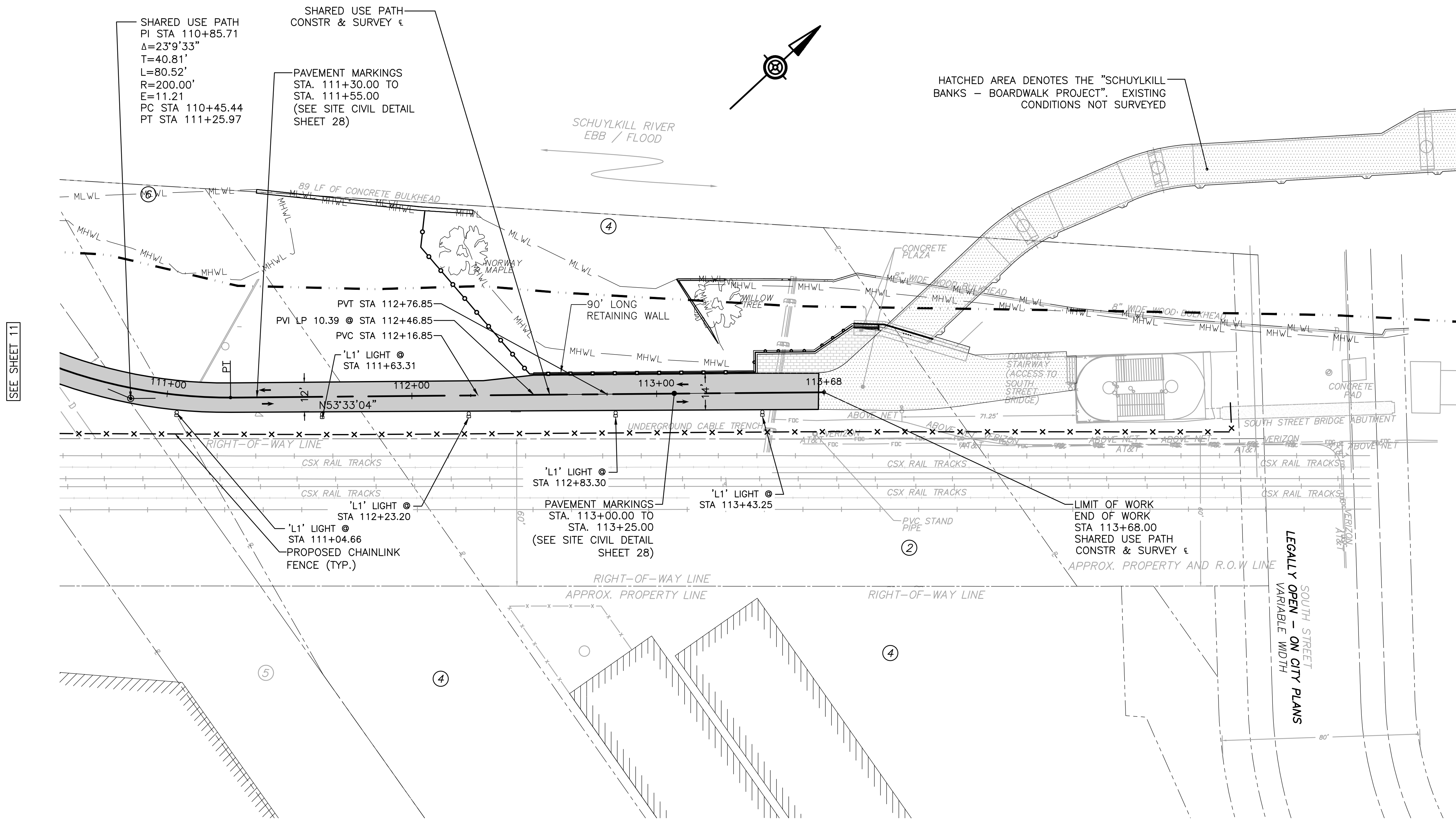
CONFORMED SET

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		12 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

NOTES:

- ALL TYPE 'L1' LIGHTING FIXTURES ADJACENT TO THE TRAIL SHALL BE INSTALLED 2.2' BETWEEN THE EDGE OF THE TRAIL AND THE CENTER OF THE FIXTURE POLES. CONDUIT SHALL NOT BE ROUTED IN THIS 2' SHOULDER BETWEEN THE FIXTURE POLES AND THE TRAIL EDGE.
- ELECTRICAL CONDUIT FOR PATH LIGHTING NOT SHOWN. FOR LOCATION AND SIZE, REFER TO ELECTRICAL SET.

**SCHUYLKILL RIVER TRAIL EXTENSION
HORIZONTAL GEOMETRY, PAVEMENT MARKINGS
AND SIGNAGE PLAN - 3**



EXISTING LEGEND

- 100-YEAR FEMA FLOODPLAIN
- FEMA FLOODWAY
- MHWL MEAN HIGH WATER LINE
- PROPERTY/DEED LINE
- LEGAL RIGHT-OF-WAY
- 6' EXISTING MINOR CONTOUR
- 10' EXISTING MAJOR CONTOUR
- ⊕ EXISTING LIGHT POST
- ⊕ EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- ⊕ EXISTING DECIDUOUS TREE
- ▭ EXISTING CONCRETE
- EXISTING RAIL

PROPOSED LEGEND

- PROPOSED STEEL PIPE RAILING
- x-x-x- PROPOSED CHAINLINK FENCE
- PROPOSED STEEL INFILL RAILING
- PROPOSED 'SOUTH STREET' BRIDGE RAILING
- 106+00 PROPOSED STATIONING
- PROPOSED SHARED USE PATH CENTER LINE
- ▭ PROPOSED PERMEABLE PAVER
- ▭ PROPOSED TRAIL
- ▭ PROPOSED CONCRETE
- PROPOSED TREE LOCATIONS
- ⊕ PROPOSED LIGHT POST
- ⊕ PROPOSED BENCHES
- PROPOSED TRASH RECEPTACLE

LIST OF PROPERTY OWNERS:

- NOW OR FORMERLY PHILADELPHIA ELECTRIC COMPANY
830 SCHUYLKILL AVENUE (BRT ACCOUNT #77260700)
- SCHUYLKILL RIVER EAST SIDE
RAILROAD RIGHT-OF-WAY (60' WIDE)
- NOW OR FORMERLY REDEVELOPMENT AUTHORITY OF PHILADELPHIA
780 SCHUYLKILL AVENUE (BRT ACCOUNT #782463000)
- NOW OR FORMELY THE CHILDREN'S HOSPITAL OF PHILADELPHIA
700 SCHUYLKILL AVENUE (BRT ACCOUNT #782462700)
- BAINBRIDGE STREET - VACATED 50' WIDE RIGHT-OF-WAY
RESERVED FOR DRAINAGE & PUBLIC UTILITY PURPOSES
- NOW OR FORMELY CSX TRANSPORTATION
624R SCHUYLKILL AVENUE (BRT ACCOUNT #302171100)



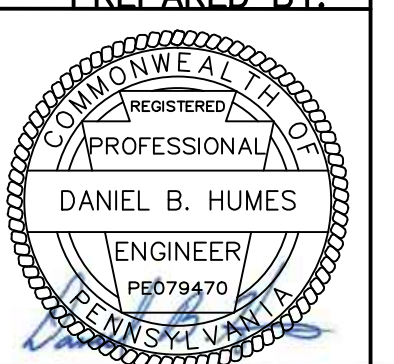
FOR PROFILE, SEE SHEET 27

HORIZONTAL



CONFORMED SET

PREPARED BY:



EXISTING LEGEND

- 100-YEAR FEMA FLOODPLAIN
- - - - - FEMA FLOODWAY
- MHWL — MEAN HIGH WATER LINE
- — — — — PROPERTY/DEED LINE
- — — — — LEGAL RIGHT-OF-WAY
- x — x — x — EXISTING CHAIN LINK FENCE
- FOC — EXISTING FIBER OPTIC CABLE
- E — EXISTING OVERHEAD ELECTRIC LINE
- D — EXISTING STORM LINE
- 6 — EXISTING MINOR CONTOUR
- 10 — EXISTING MAJOR CONTOUR
- ⊕ EXISTING LIGHT POST
- ⊙ EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- ⊙ EXISTING DECIDUOUS TREE
- ▲ SOIL SAMPLE LOCATION
- ▨ HOT SPOT LOCATION
- ▨ CAPPED FILL AREA

PROPOSED LEGEND

- PROPOSED STEEL PIPE RAILING
- x - x - x - PROPOSED CHAINLINK FENCE
- PROPOSED STEEL INFILL RAILING
- — — — — PROPOSED 'SOUTH STREET' BRIDGE RAILING
- 14 — PROPOSED MINOR CONTOUR
- 15 — PROPOSED MAJOR CONTOUR
- 106+00 PROPOSED STATIONING
- — — — — PROPOSED SHARED USE PATH CENTER LINE
- ▨ PROPOSED PERMEABLE PAVER
- ▨ PROPOSED TRAIL

E&S LEGEND

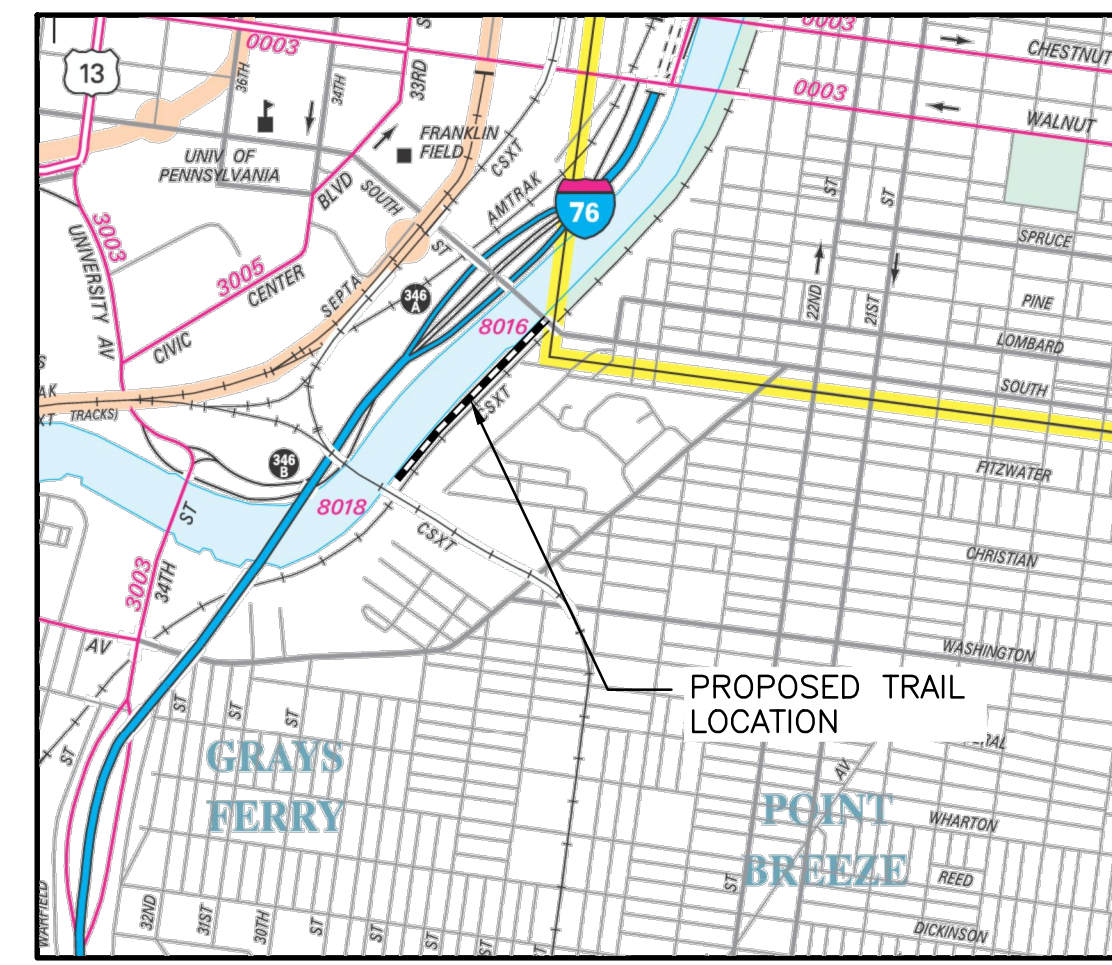
- Ub URBAN LAND SOIL TYPE
- LOD — LIMIT OF DISTURBANCE
- — — — — NPDES BOUNDARY
- — — — — SANDBAG COFFERDAM
- — — — — TURBIDITY CURTAIN
- SFL — 18" SEDIMENT FILTER LOG
- — — — — ORANGE SAFETY FENCE/TREE PROTECTION FENCING
- — — — — TURTLE BARRIER FENCING
- IP INLET PROTECTION
- ▨ SOIL STOCKPILE
- ▨ ROCK CONSTRUCTION ENTRANCE
- ▨ LIVE STAKING STABILIZATION AREA
- ▨ EROSION CONTROL BLANKET
- ▨ PROPOSED RIP-RAP

E&S NOTES:

- FOR DETAILED CONSTRUCTION GUIDELINES OF PERMEABLE PAVERS, SEE SEQUENCE OF CONSTRUCTION ON SHEET 19 – EROSION AND SEDIMENT CONTROL NOTES–2.
- FOR ALL NPDES NOTES SEE SHEETS 18 & 19 E&S NOTES 1&2.
- FOR EROSION AND SEDIMENT CONTROL DETAILS SEE SHEET 17 – EROSION AND SEDIMENT CONTROL DETAILS.
- COORDINATE THE EXACT LOCATION OF ROCK CONSTRUCTION ENTRANCE (RCE) AT SCHUYLKILL BANKS BOARDWALK. EXACT LOCATION OF RCE TO BE DETERMINED BY CONTRACTOR.
- FOR SOIL MANAGEMENT HOT SPOT REMOVAL, SEE SHEET 19 – EROSION AND SEDIMENT CONTROL NOTES–2, CONSTRUCTION SEQUENCE PHASE 1, NOTE 9.
- HEAVY CONSTRUCTION EQUIPMENT SHALL NOT BE LOCATED WITHIN 10- FEET OF EXISTING BULKHEADS.
- EROSION AND SEDIMENT CONTROL OPERATION AND MAINTENANCE NOTES LOCATED ON SHEET 18 – EROSION AND SEDIMENT CONTROL NOTES–1.
- DAMAGED AREAS OUTSIDE OF LIMIT OF DISTURBANCE MUST BE REPAIRED TO THE EXISTING CONDITION PRIOR TO PROJECT CONSTRUCTION.
- FOR LIVE STAKING DETAIL, SEE LANDSCAPE DETAILS.
- SEE PLAN SHEET 16 – EROSION AND SEDIMENT CONTROL – SOIL SAMPLING PLAN FOR SOIL MANAGEMENT CONSTRUCTION SEQUENCE AND ASSOCIATED SOIL MANAGEMENT NOTES.



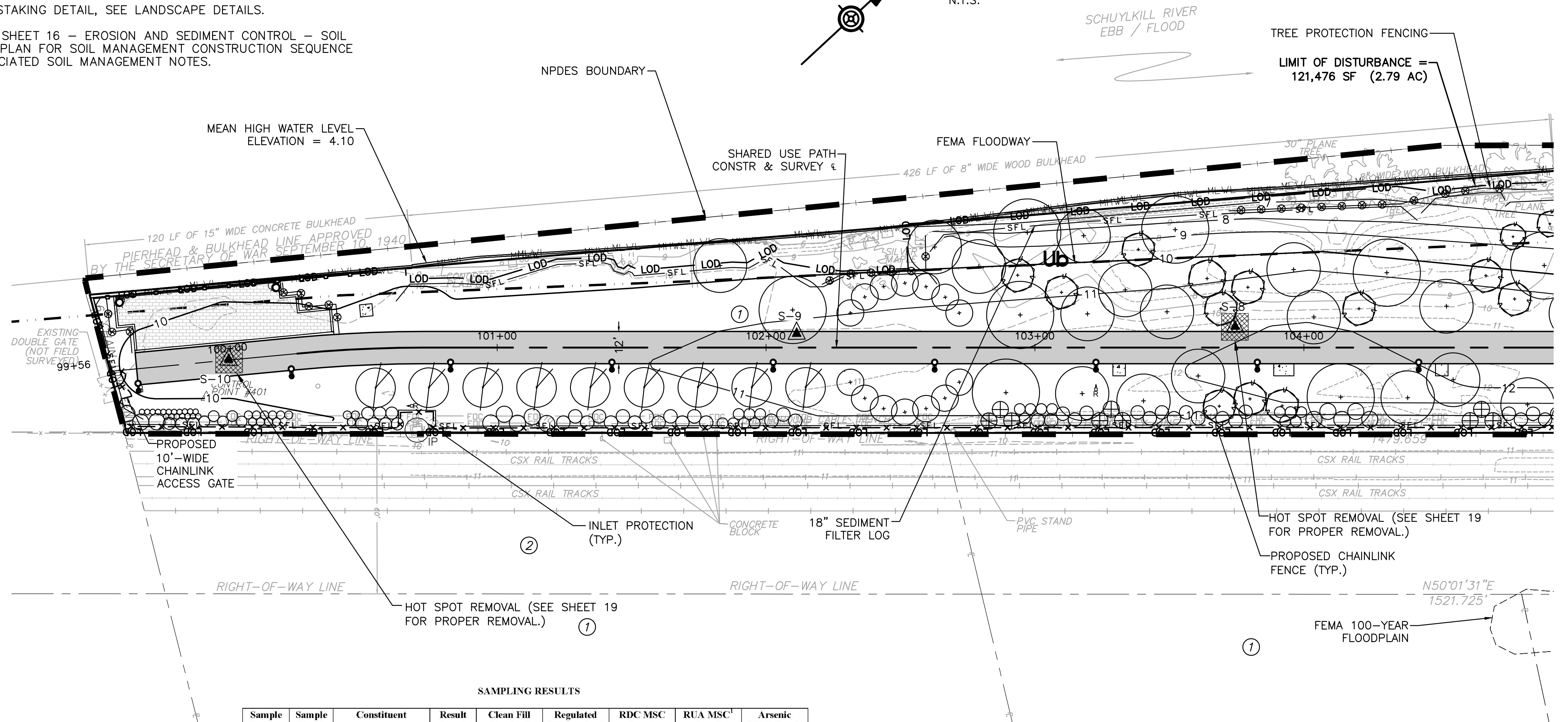
SOILS MAP
N.T.S.



LOCATION MAP
N.T.S.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		13 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

**SCHUYLKILL RIVER TRAIL EXTENSION
EROSION AND SEDIMENT CONTROL PLAN 1**



LIST OF PROPERTY OWNERS:

- NOW OR FORMERLY PHILADELPHIA ELECTRIC COMPANY
830 SCHUYLKILL AVENUE (BRT ACCOUNT #77260700)
- SCHUYLKILL RIVER EAST SIDE
RAILROAD RIGHT-OF-WAY (60' WIDE)
- NOW OR FORMERLY REDEVELOPMENT AUTHORITY OF PHILADELPHIA
780 SCHUYLKILL AVENUE (BRT ACCOUNT #782463000)
- NOW OR FORMELY THE CHILDREN'S HOSPITAL OF PHILADELPHIA
700 SCHUYLKILL AVENUE (BRT ACCOUNT #782462700)
- BAINBRIDGE STREET – VACATED 50' WIDE RIGHT-OF-WAY
RESERVED FOR DRAINAGE & PUBLIC UTILITY PURPOSES
- NOW OR FORMELY CSX TRANSPORTATION
624R SCHUYLKILL AVENUE (BRT ACCOUNT #302171100)

SAMPLING RESULTS

Sample Number	Sample Depth (Feet)	Constituent	Result (ppm)	Clean Fill Standard (ppm)	Regulated Fill Standard (ppm)	RDC MSC (ppm)	RUA MSC ¹ (ppm)	Arsenic SPLP Result (ug/L)
S-1A	1	Arsenic	20	12	53	12	68	-
S-1B	4	Arsenic	41	12	53	12	68	-
S-2A	1	Arsenic	33	12	53	12	68	15 (Pass)
S-2B	4	Arsenic	25	12	53	12	68	-
S-3A	1	Arsenic	27	12	53	12	68	8.9 (Pass)
S-3B	4	Arsenic	20	12	53	12	68	-
S-4A	1	Arsenic	68	12	53	12	68	27 (Pass)
S-4B	4	Arsenic	46	12	53	12	68	-
S-7A	1	Arsenic	22	12	53	12	68	-
S-7B	4	Arsenic	13	12	53	12	68	-
S-8A	1	Benz(a)anthracene	8.4	25	110	5.7	46	-
		Benz(a)pyrene	7.1	25	110	5.7	40	-
		Benzo(b)fluoranthene	9.7	25	110	5.7	40	-
		Dibenz(a,h)anthracene	1.2	2.5	11	0.57	13	-
S-9A	1	Arsenic	13	12	53	12	68	-
S-9B	4	Arsenic	31	12	53	12	68	-
S-10A	1	Arsenic	23	12	53	12	68	6.2 (Pass)
S-10B	4	Lead	4600	450	450	500	450	-
S-10C	4	Arsenic	15	12	53	12	68	-

¹Standards highlighted in bold are exceeded.
Arsenic SPLP Standard = 50 ug/l (residential used aquifer MSC)
Hotspot S-4A, S-8A, and S-10A to be excavated and hauled offsite for disposal

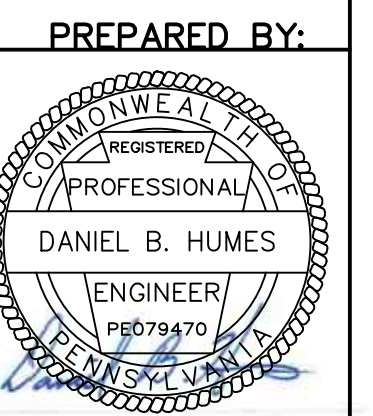
Soil Series	Urban Land
Map Symbol	Ub, Ua, Uab, Ubc, Ue, Ufb, Ufc
Depth to Seasonal High Water Table	Properties are too variable to estimate with any degree of certainty
Depth to Bedrock (feet)	Properties are too variable to estimate with any degree of certainty
Use Limitations and restrictions	Surface runoff may be rapid and the hazard of further erosion can be high. Available moisture capacity may be low or very low, and natural fertility could be low. Percolation through the profile may be rapid. The potential losses of soil material from the surface layer, and the low available moisture capacity, limit the use of the soils of this complex. The use of Urban land as a site for built-up areas precludes use for most other purposes.
Recommendations	Limit exposure duration. Cover with Type 2A Subbase and use inlet protection or filter fabric fencing.
Capability unit	Properties are too variable to estimate with any degree of certainty.

HORIZONTAL 0 25 50 FEET



Know what's below.
Call before you dig.

PA ONE CALL SERIAL NUMBERS:
#20130491115, #20130491116, #20130491117



CONFORMED SET

EXISTING LEGEND

- 100-YEAR FEMA FLOODPLAIN
- - - - - FEMA FLOODWAY
- MHWL — MEAN HIGH WATER LINE
- - - - - PROPERTY/DEED LINE
- - - - - LEGAL RIGHT-OF-WAY
- x—x— EXISTING CHAIN LINK FENCE
- — — EXISTING FIBER OPTIC CABLE
- E — EXISTING OVERHEAD ELECTRIC LINE
- — — EXISTING STORM LINE
- 6 --- EXISTING MINOR CONTOUR
- 10 --- EXISTING MAJOR CONTOUR
- ⊕ EXISTING LIGHT POST
- ⊙ EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- ⊗ EXISTING DECIDUOUS TREE
- ▲ SOIL SAMPLE LOCATION
- HOT SPOT LOCATION
- ▨ CAPPED FILL AREA

PROPOSED LEGEND

- PROPOSED STEEL PIPE RAILING
- x-x-x- PROPOSED CHAINLINK FENCE
- PROPOSED STEEL INFILL RAILING
- PROPOSED 'SOUTH STREET' BRIDGE RAILING
- 14 — PROPOSED MINOR CONTOUR
- 15 — PROPOSED MAJOR CONTOUR
- 106+00 PROPOSED STATIONING
- - - - - PROPOSED SHARED USE PATH CENTER LINE
- ▨ PROPOSED PERMEABLE PAVER
- ▨ PROPOSED TRAIL
- ▨ PROPOSED CONCRETE

E&S LEGEND

- Ub URBAN LAND SOIL TYPE
- LOD LIMIT OF DISTURBANCE
- NPDES BOUNDARY
- SANDBAG COFFERDAM
- — — TURBIDITY CURTAIN
- SFL 18" SEDIMENT FILTER LOG
- ORANGE SAFETY FENCE/TREE PROTECTION FENCING
- — — TURTLE BARRIER FENCING
- IP INLET PROTECTION
- ▽ SOIL STOCKPILE
- ▨ ROCK CONSTRUCTION ENTRANCE
- ▨ LIVE STAKING STABILIZATION AREA
- ▨ EROSION CONTROL BLANKET
- ▨ PROPOSED RIP-RAP

LIST OF PROPERTY OWNERS:

- ① NOW OR FORMERLY PHILADELPHIA ELECTRIC COMPANY
830 SCHUYLKILL AVENUE (BRT ACCOUNT #77260700)
- ② SCHUYLKILL RIVER EAST SIDE
RAILROAD RIGHT-OF-WAY (60' WIDE)
- ③ NOW OR FORMERLY REDEVELOPMENT AUTHORITY OF PHILADELPHIA
780 SCHUYLKILL AVENUE (BRT ACCOUNT #782463000)
- ④ NOW OR FORMELY THE CHILDREN'S HOSPITAL OF PHILADELPHIA
700 SCHUYLKILL AVENUE (BRT ACCOUNT #782462700)
- ⑤ BAINBRIDGE STREET - VACATED 50' WIDE RIGHT-OF-WAY
RESERVED FOR DRAINAGE & PUBLIC UTILITY PURPOSES
- ⑥ NOW OR FORMELY CSX TRANSPORTATION
624R SCHUYLKILL AVENUE (BRT ACCOUNT #302171100)



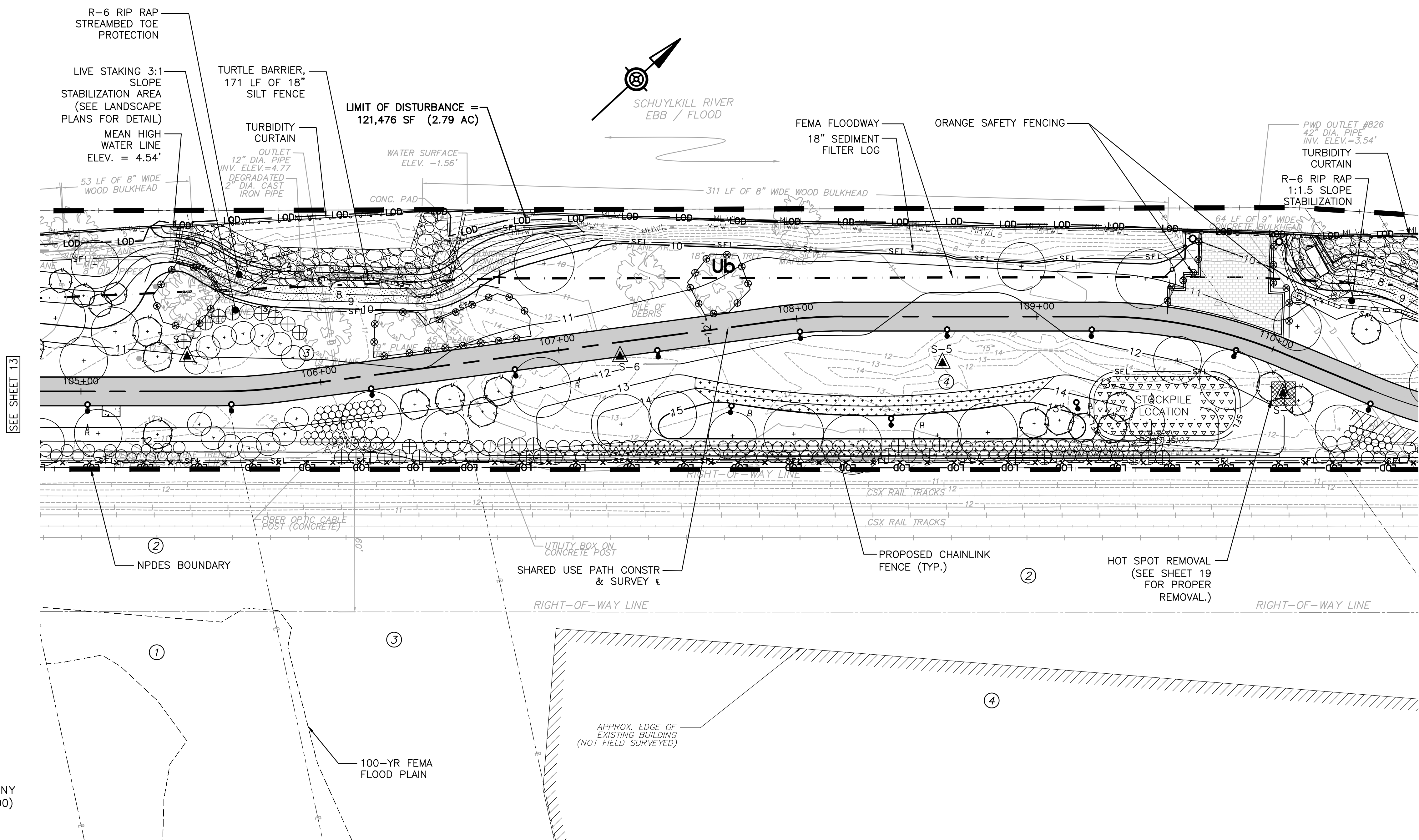
PA ONE CALL SERIAL NUMBERS:
#20130491115, #20130491116, #20130491117

E&S NOTES:

- 1. FOR GENERAL EROSION AND SEDIMENT CONTROL NOTES, SEE SHEET 13 - EROSION AND SEDIMENT CONTROL PLAN 1.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		14 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

**SCHUYLKILL RIVER TRAIL EXTENSION
EROSION AND SEDIMENT CONTROL PLAN 2**

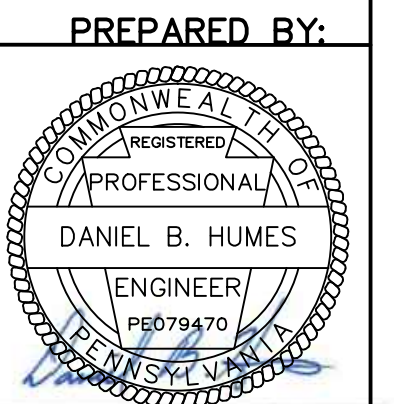


SEE SHEET 13

SEE SHEET 15

HORIZONTAL 0 25 50 FEE

CONFORMED SET



E&S NOTES:

- FOR GENERAL EROSION AND SEDIMENT CONTROL NOTES, SEE SHEET 13 - EROSION AND SEDIMENT CONTROL PLAN 1.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		15 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

SCHUYLKILL RIVER TRAIL EXTENSION
EROSION AND SEDIMENT CONTROL PLAN 3

EXISTING LEGEND

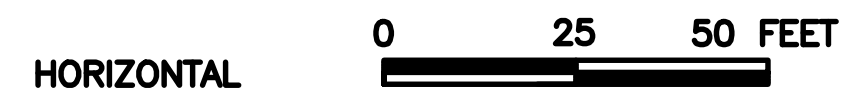
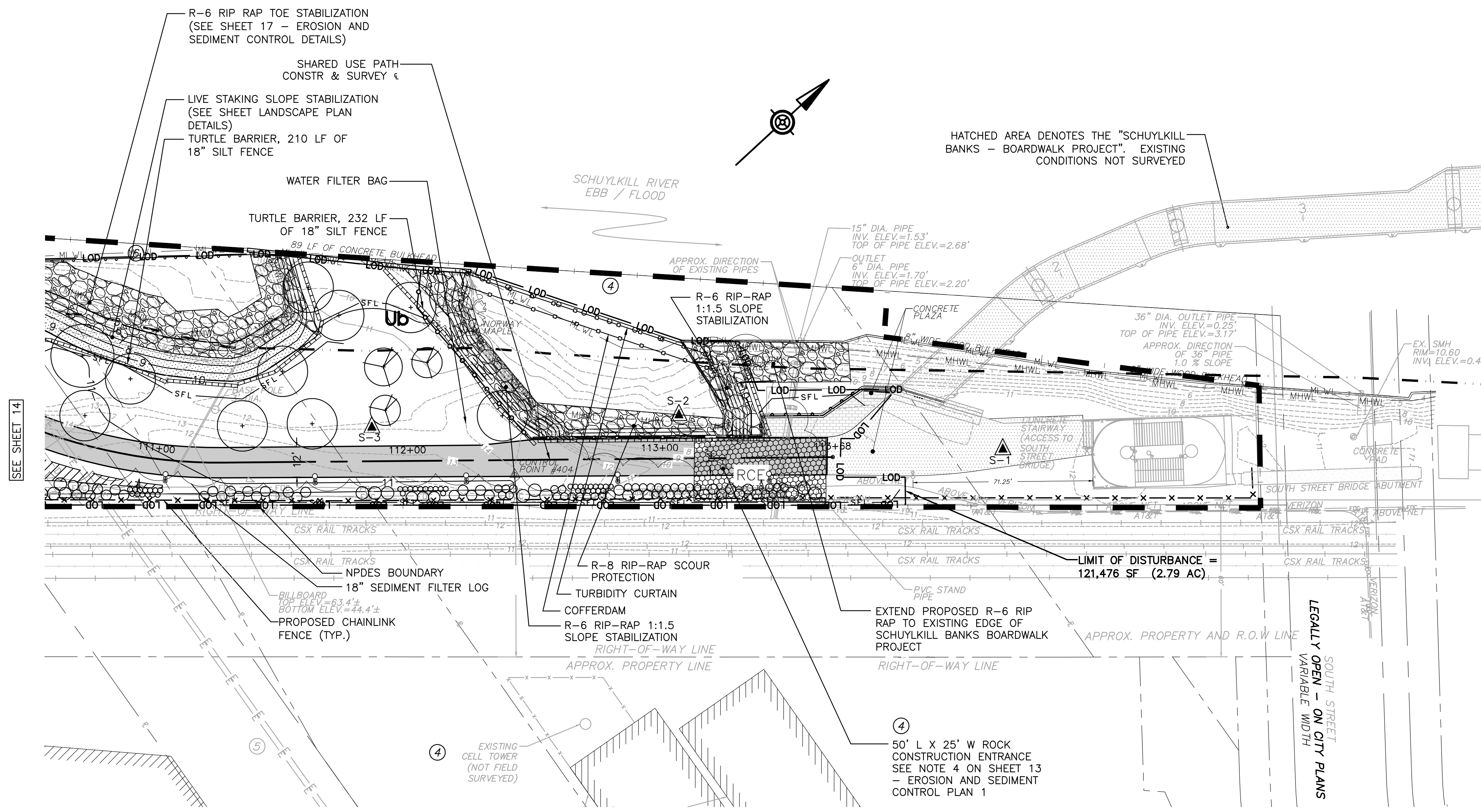
- 100-YEAR FEMA FLOODPLAIN
- - - - - FEMA FLOODWAY
- MHWL — MEAN HIGH WATER LINE
- P — PROPERTY/DEED LINE
- L — LEGAL RIGHT-OF-WAY
- x — x — EXISTING CHAIN LINK FENCE
- 6 ----- EXISTING MINOR CONTOUR
- 10 ----- EXISTING MAJOR CONTOUR
- ⊕ EXISTING LIGHT POST
- ⊕ EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- ⊗ EXISTING DECIDUOUS TREE

PROPOSED LEGEND

- ○ — ○ — PROPOSED STEEL PIPE RAILING
- x - x - x - PROPOSED CHAINLINK FENCE
- ○ — ○ — PROPOSED STEEL INFILL RAILING
- 14 — PROPOSED 'SOUTH STREET' BRIDGE RAILING
- 10 — PROPOSED MINOR CONTOUR
- 15 — PROPOSED MAJOR CONTOUR
- [Pattern] PROPOSED PERMEABLE PAVER
- [Pattern] PROPOSED TRAIL

E&S LEGEND

- Ub URBAN LAND SOIL TYPE
- LOD LIMIT OF DISTURBANCE
- NPDES BOUNDARY
- SANDBAG COFFERDAM
- TURBIDITY CURTAIN
- SFL — 18" SEDIMENT FILTER LOG
- ORANGE SAFETY FENCE/TREE PROTECTION FENCING
- TURTLE BARRIER FENCING
- IP INLET PROTECTION
- [Pattern] SOIL STOCKPILE
- [Pattern] ROCK CONSTRUCTION ENTRANCE
- [Pattern] LIVE STAKING STABILIZATION AREA
- [Pattern] EROSION CONTROL BLANKET
- [Pattern] PROPOSED RIP-RAP



PA ONE CALL SERIAL NUMBERS:
#20130491115, #20130491116, #20130491117



PREPARED BY:

CONFORMED SET

EXISTING LEGEND

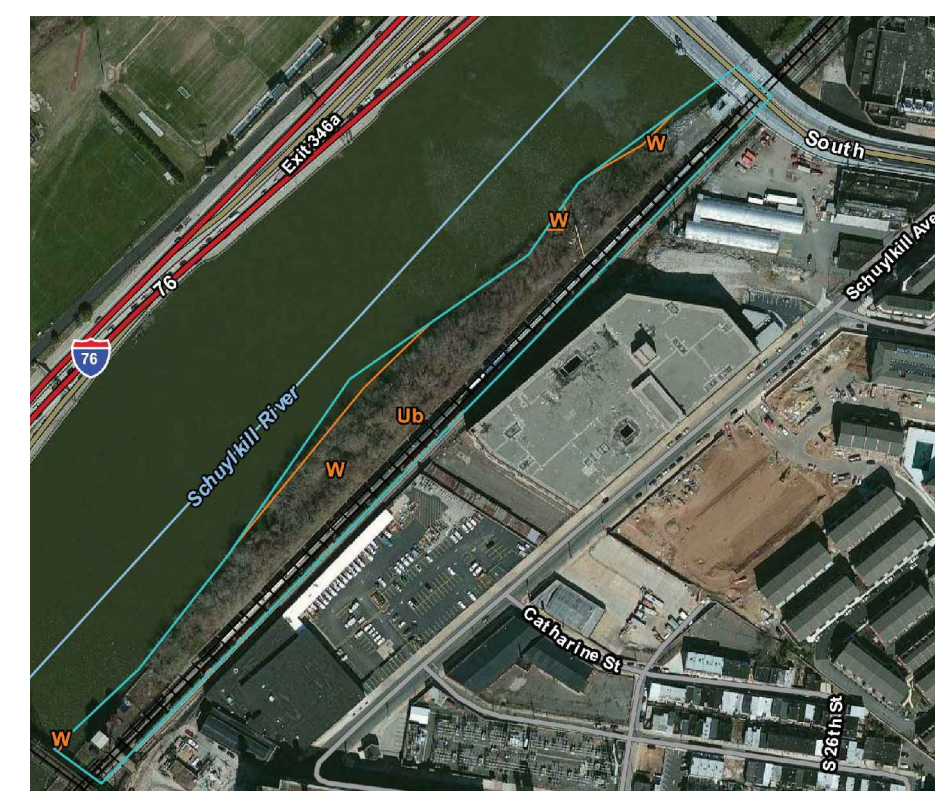
- 100-YEAR FEMA FLOODPLAIN
- FEMA FLOODWAY
- MHWL MEAN HIGH WATER LINE
- PROPERTY/DEED LINE
- LEGAL RIGHT-OF-WAY
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- EXISTING CHAIN LINK FENCE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING CONCRETE
- EXISTING RAIL

- ▲ SOIL SAMPLE LOCATION
- HOT SPOT LOCATION
- PROPOSED ASPHALT TRAIL
- PROPOSED POROUS PAVERS
- PROPOSED ORNAMENTAL GRASS
- PROPOSED WILDFLOWER AND MEADOW COVER
- PROPOSED NATIVE GRASS COVER (LAWN)

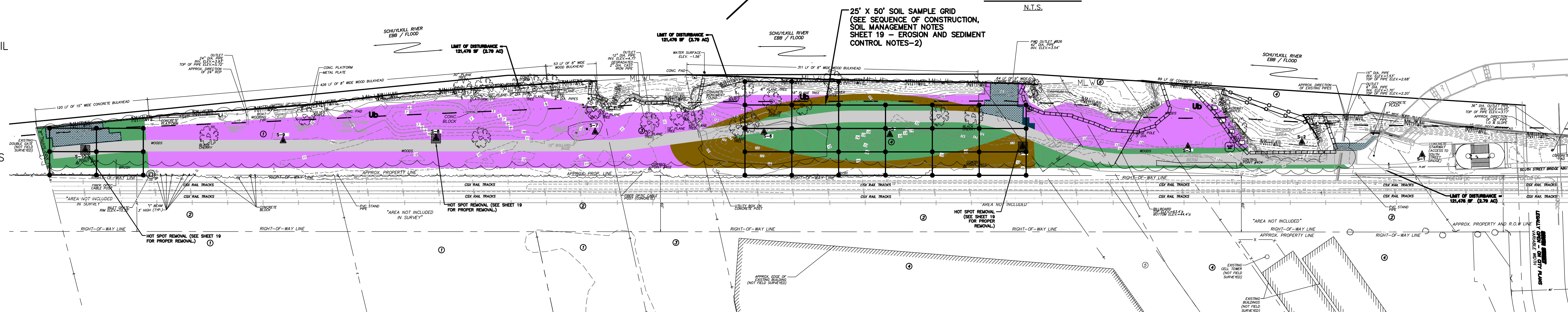
GENERAL NOTES:

1. PRIOR TO SOIL SAMPLING, REMOVE HOT SPOTS. FOR HOT SPOT REMOVAL; SEE SHEET 19 - EROSION AND SEDIMENT CONTROL NOTES-2, SEQUENCE OF CONSTRUCTION, PHASE 1 - NOTE 9.
2. FIELD VERIFY SAMPLING POINT LOCATIONS, SAMPLE WHERE APPROPRIATE.
3. FOR ENTIRE SOIL MANAGEMENT PLAN, SEE NPDES PERMIT SUBMITTAL PACKAGE.

Soil Series	Urban Land
Map Symbol	U ₁ , U ₂ , U ₃ , U ₄ , U ₅ , U ₆ , U ₇ , U ₈ , U ₉
Depth to Seasonal High Water Table	Properties are too variable to estimate with any degree of certainty.
Depth to Bedrock (feet)	Properties are too variable to estimate with any degree of certainty.
Use limitations and restrictions	Surface runoff may be rapid and the hazard of flash erosion can be high. Available moisture capacity may be low or very low, and natural fertility could be low. Percolation through the profile may be rapid. The potential losses of soil material from the surface layer, and the low available moisture capacity, limit the use of the soils of this complex. The use of Urban Land as a site for building areas precludes use for most other purposes.
Recommendations	Limit exposure duration. Cover with Type 2A Subbase and use silt protection or filter fabric fencing.
Capability unit	Properties are too variable to estimate with any degree of certainty.



SOIL MAP
N.T.S.



SOIL MANAGEMENT PLAN NOTES:

GENERAL SOIL HANDLING, EXCAVATION, AND STOCKPILING

- CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE PWD/PADEP-APPROVED E&S PLAN AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
- OPERATIONS SHALL BE STAGED TO MINIMIZE THE TIME THAT EXCAVATIONS ARE OPEN AND THE TIME THAT EXCAVATED SOILS ARE EXPOSED TO THE WEATHER. PROVIDE PROTECTION MEASURES AROUND EXCAVATION AREAS TO PREVENT STORM WATER RUN-ON AND RUN-OFF, TO CONTAIN THE SOIL WITHIN THE EXCAVATION AREAS, AND TO PREVENT ACCIDENTAL FALLS.
- PROPER OSHA SAFETY PROCEDURES SHALL BE FOLLOWED DURING EXCAVATION. IN ADDITION, WASH STATIONS SHOULD BE PROVIDED, AND WORKERS ADVISED TO WASH HANDS BEFORE MEALS AND BEFORE LEAVING THE SITE AT THE END OF THE DAY.
- ROCK CONSTRUCTION ENTRANCES AND OTHER DUST CONTROL MEASURES (SUCH AS WATER MISTING) ARE REQUIRED.
- SOILS EXCAVATED SHALL BE STOCKPILED AT A DESIGNATED SOIL STAGING AREA ONSITE. ALL EXCAVATED SOIL WILL BE PLACED ON A POLY LINER AND COVERED IN A PREDETERMINED AREA AS NOTED IN THE EROSION AND SEDIMENT CONTROL PLANS.
- THE SOIL STAGING AREA IS NOT TO BE CONSIDERED A LONG-TERM STORAGE AREA. ITS PURPOSE IS SPECIFICALLY FOR TEMPORARY STOCKPILING TO ALLOW SITE GRADING AND ANALYSIS FOR DETERMINATION OF FINAL DISPOSITION, IF REQUIRED.
- PLANTS AND ASSOCIATED ROOT SYSTEMS SCHEDULED FOR REMOVAL SHALL BE CLEARED, TO THE MAXIMUM EXTENT PRACTICAL, OF EXCESS SOIL PRIOR TO OFFSITE DISPOSAL.
- UNCONTAMINATED BRICK AND BLOCK MAY BE REMOVED FROM THE SITE AS CLEAN FILL PER THE PADEP MANAGEMENT OF FILL POLICY (ATTACHED HEREIN AS REFERENCE). SHOULD ANY QUESTIONABLE FILL OR POTENTIALLY CONTAMINATED SOIL (VISUAL OR ODOR INDICATORS) BE OBSERVED, IT IS UNDERSTOOD THAT THE CONTRACTOR SHALL STOP WORK AND TAKE NECESSARY MEASURES IN ACCORDANCE WITH THE PENNSYLVANIA DEP 'MANAGEMENT OF FILL' POLICY.

SAMPLING AND ANALYSIS

- AFTER THE INITIAL CLEARING AND GRUBBING (VEGETATION REMOVAL) AND HOT SPOT REMOVAL, THE OWNER'S REPRESENTATIVE WILL GRID THE NATIVE GRASS (LAWN) PORTIONS OF THE SITE IN PREPARATION FOR FIELD SAMPLE ANALYSIS. THE GRID WILL BE LAID OUT IN A 25 FOOT WIDE BY 50 FOOT LONG PATTERN AS SHOWN ON THIS PLAN SHEET.
- BASED ON THIS GRID PATTERN, IT IS EXPECTED THAT BETWEEN 40 AND 50 SAMPLES WILL BE FIELD ANALYZED FOR RCRA METALS.
- THE OWNER'S REPRESENTATIVE WILL USE A REAL TIME FIELD ANALYZER (XRF GUN) TO SAMPLE AND RECORD THE RCRA METAL (INCLUDING ARSENIC AND LEAD) CONCENTRATIONS AT THE VARIOUS GRID POINTS.
- FROM THIS GRID, THE OWNER'S REPRESENTATIVE WILL PREPARE AN ISO-CONCENTRATION MAP TO DELINEATE THE AREAS OF THE ROUGH GRADED SITE THAT EXCEED CLEAN FILL AND RESIDENTIAL DIRECT CONTACT STANDARDS AND THE AREAS THAT ARE COMPLIANCE WITH THESE STANDARDS.
- AREAS THAT ARE IN COMPLIANCE WITH THE CLEAN FILL AND RESIDENTIAL DIRECT CONTACT STANDARDS MAY BE USED ANYWHERE ONSITE.
- AREAS THAT EXCEED THE CLEAN FILL AND RESIDENTIAL DIRECT CONTACT STANDARDS MUST BE MANAGED IN THE FOLLOWING SEQUENCE:
 1. PLACED UNDER THE HARD CAP SURFACES (TRAIL PATH, PERVIOUS PAVERS) AS FILL.
 2. PLACED UNDER AT LEAST 12 INCHES OF CLEAN FILL.
 3. USED IN AREAS WITH PROPOSED WILD FLOWER/MEADOW OR ORNAMENTAL GRASS COVER.
 4. TRANSPORTED OFF-SITE AND DISPOSED OF AS A RESIDUAL WASTE (ALL EFFORTS SHOULD BE MADE TO KEEP MATERIAL ONSITE).

- THE 2'-WIDE GRASS SHOULDERS ADJACENT TO BOTH SIDES OF THE TRAIL WILL BE COMPRISED OF 12-INCHES OF CLEAN FILL.
- SHOULD MATERIAL HAVE TO BE MOVED OFF-SITE, THE MATERIAL WILL BE STOCKPILED AND, FOLLOW-UP SAMPLING WILL BE UNDERTAKEN IN ACCORDANCE WITH THE FREQUENCY AND PARAMETERS DICTATED BY THE PADEP MANAGEMENT OF FILL POLICY AND CERTIFIED WASTE RECYCLING AND/OR DISPOSAL FACILITY. SOIL SAMPLES WILL BE COLLECTED BY THE OWNER'S REPRESENTATIVE USING DECONTAMINATED, STAINLESS STEEL TOWELS OR AUGERS, AND WILL BE SUBMITTED TO A CERTIFIED LABORATORY FOR ANALYSIS. ANALYTICAL DATA WILL BE PROVIDED TO THE CERTIFIED WASTE RECYCLING AND/OR DISPOSAL FACILITY, IN ORDER TO RECEIVE A "PRE-APPROVAL" FOR WASTE ACCEPTANCE PRIOR TO RECYCLING/DISPOSAL. WASTE PROFILE FORMS AND WASTE BILLS-OF-LADING/MANIFESTS WILL NEED TO BE ACCURATELY PREPARED AND SIGNED BY THE OWNER (OR DESIGNATED REPRESENTATIVE) PRIOR TO ANY SHIPMENT OF IMPACTED SOIL OFF-SITE.
- SAMPLES SHALL BE COLLECTED BY VOLUME INCREMENTS. SAMPLES SHALL BE COMPOSITED AND COLLECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PADEP MANAGEMENT OF FILL POLICY - APPENDIX A.
- SAMPLING SHALL BE RANDOM AND REPRESENTATIVE OF THE MATERIAL BEING SAMPLED. SAMPLING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE EPA RCRA MANUAL, SW-846 (TEST METHODS FOR EVALUATING SOLID WASTE, PHYSICAL/CHEMICAL METHODS. OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE).

TRANSPORTATION AND DISPOSAL

- ONCE LAB RESULTS ARE RECEIVED AND COMPARED WITH PADEP TABLES FP-1A AND 1B, AND GP-1A AND 1B, THE DETERMINATION CAN BE MADE OF WHAT SOILS ARE CLEAN FILL VERSUS REGULATED FILL AND SEGREGATED ACCORDINGLY.
- THE CONTRACTOR SHOULD OBTAIN THREE BIDS FROM DISPOSAL SITES THAT ARE LICENSED TO PROCESS SUCH WASTES AND PREPARE AN ESTIMATE FOR THE TRANSPORTATION OF SUCH WASTES TO THOSE DISPOSAL SITES. THE OWNER'S PROJECT MANAGER SHALL REVIEW THE DISPOSAL BID AND ESTIMATES TO DETERMINE THE APPROPRIATE PAYMENT THEREOF.
- DISPOSAL OF SOILS SHOULD BE ACCOMPANIED BY WASTE MANIFESTS WHICH SHOULD BE PROVIDED TO THE CLIENT.

GROUNDWATER AND DEWATERING OF EXCAVATED TRENCHES

STORMWATER THAT PONDS IN OPEN TRENCHES AFTER RAIN EVENTS SHALL NOT BE PUMPED TO THE PWD STORM SEWER SYSTEM OR THE SCHUYLKILL RIVER. THIS WATER SHALL BE PUMPED THROUGH A FILTER BAG AND DISCHARGED TO A STABILIZED AREA ONSITE AND ALLOWED TO NATURALLY INFILTRATE.

NO ADDITIONAL GROUNDWATER OR INDUSTRIAL DISCHARGE PERMITS ARE ANTICIPATED.

GENERAL HEALTH AND SAFETY PROCEDURES

THE SITE CONTRACTOR SHOULD PREPARE AND FOLLOW A SITE SPECIFIC HEALTH AND SAFETY PLAN (HASP). EXCAVATION SUBCONTRACTOR PERSONNEL WILL BE TRAINED IN THE PROPER USE OF PERSONNEL PROTECTIVE EQUIPMENT (PPE) AND THE PROPER HANDLING PROCEDURES OF CONTAMINATED MATERIALS. THE ON-SITE HEALTH AND SAFETY REPRESENTATIVE WILL BE PRESENT DURING EXCAVATION ACTIVITIES IN ALL IMPACTED AREAS.

IN ADDITION TO THE ABOVE, UPON COMPLETION OF EACH WORK-DAY AND PRIOR TO LEAVING THE SITE, WORKERS WILL REMOVE ANY PPE, SUCH AS GLOVES, BOOTS, AND DUST MASKS, AND DISPOSE OF THEM ON-SITE IN APPROPRIATE CONTAINERS. ADDITIONALLY, WORKERS WILL BE REQUIRED TO WASH THOSE PARTS OF THE BODY POTENTIALLY EXPOSED TO CONTAMINANTS OF CONCERN (COC) THROUGHOUT THE WORK-DAY (I.E., FACE, HANDS, NECK) TO PROVIDE FURTHER PROTECTION FROM COC ONCE THE WORKER HAS LEFT THE SITE, ANY CLOTHES WORN IN FIELD SHALL BE SEGREGATED AND WASHED SEPARATELY.

USE OF PERSONAL PROTECTIVE EQUIPMENT

ALL WORK COMPLETED WITHIN THE KNOWN IMPACTED AREAS WILL BE COMPLETED WHILE USING THE PROPER PPE, WHICH MAY INCLUDE, BUT IS NOT LIMITED TO, GLOVES, HARD HATS, STEEL-TOED WORK BOOTS, DUST MASKS, AS MAY BE REQUIRED BY THE ACTIVITIES BEING CONDUCTED.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		16 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

**SCHUYLKILL RIVER TRAIL EXTENSION
EROSION AND SEDIMENT CONTROL - SOIL SAMPLING PLAN**

SAMPLING RESULTS

Sample Number	Sample Depth (feet)	Constituent	Result (ppm)	Clean Fill Standard (ppm)	Regulated Fill Standard (ppm)	RDC MSC (ppm)	RUA MSC ¹ (ppm)	Arsenic SPLP Result (ug/L)
S-1A	1	Arsenic	20	12	53	12	68	-
S-1B	4	Arsenic	41	12	53	12	68	-
S-2A	1	Arsenic	33	12	53	12	68	15 (Pass)
S-2B	4	Arsenic	25	12	53	12	68	-
S-3A	1	Arsenic	27	12	53	12	68	8.9 (Pass)
S-3B	4	Arsenic	20	12	53	12	68	-
S-4A	1	Arsenic	68	12	53	12	68	27 (Pass)
S-4B	4	Arsenic	46	12	53	12	68	-
S-7A	1	Arsenic	22	12	53	12	68	-
S-7B	4	Arsenic	13	12	53	12	68	-
S-8A	1	Benzof(a)anthracene	8.4	2.5	110	5.7	25	-
		Benzof(a)pyrene	7.1	2.5	110	5.7	46	-
		Dibenz(a,h)anthracene	1.2	2.5	11	0.57	13	-
S-9A	1	Arsenic	13	12	53	12	68	-
S-9B	4	Arsenic	31	12	53	12	68	-
S-10A	1	Arsenic	23	12	53	12	68	6.2 (Pass)
		Lead	4600	450	450	500	450	-
S-10B	4	Arsenic	15	12	53	12	68	-

¹Standards highlighted in bold are exceeded.
Arsenic SPLP Standard = 50 ug/l (residential used aquifer MSC)
Hotspot S-4A, S-8A, and S-10A to be excavated and hauled offsite for disposal

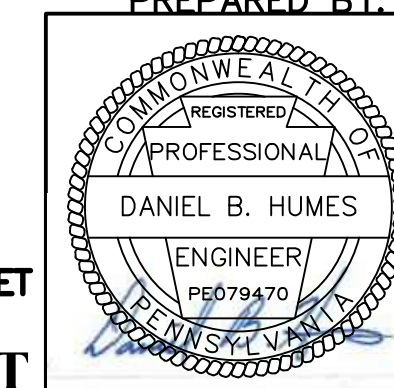
¹ The RUA MSC for arsenic was revised to 68 ppm (as compared to 29 ppm) because the Synthetic Precipitation Leaching Procedure (SPLP) was conducted for arsenic. Per the PADEP Technical Guidance Manual, the four samples with the highest total concentration of arsenic were submitted for SPLP analysis. Since all of these samples resulted in a passing SPLP level (below the published groundwater standards), the new alternative RUA MSC is the total concentration corresponding to the highest SPLP result (68 ppm). See the Stormwater Management Section for more details on SPLP.

HORIZONTAL

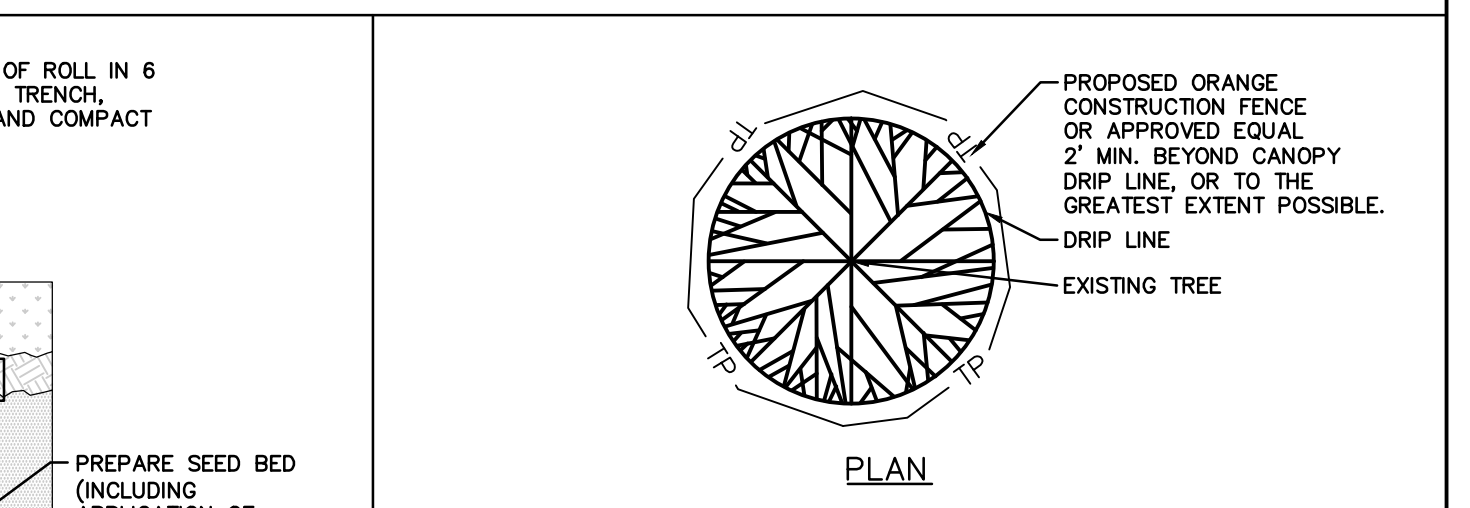
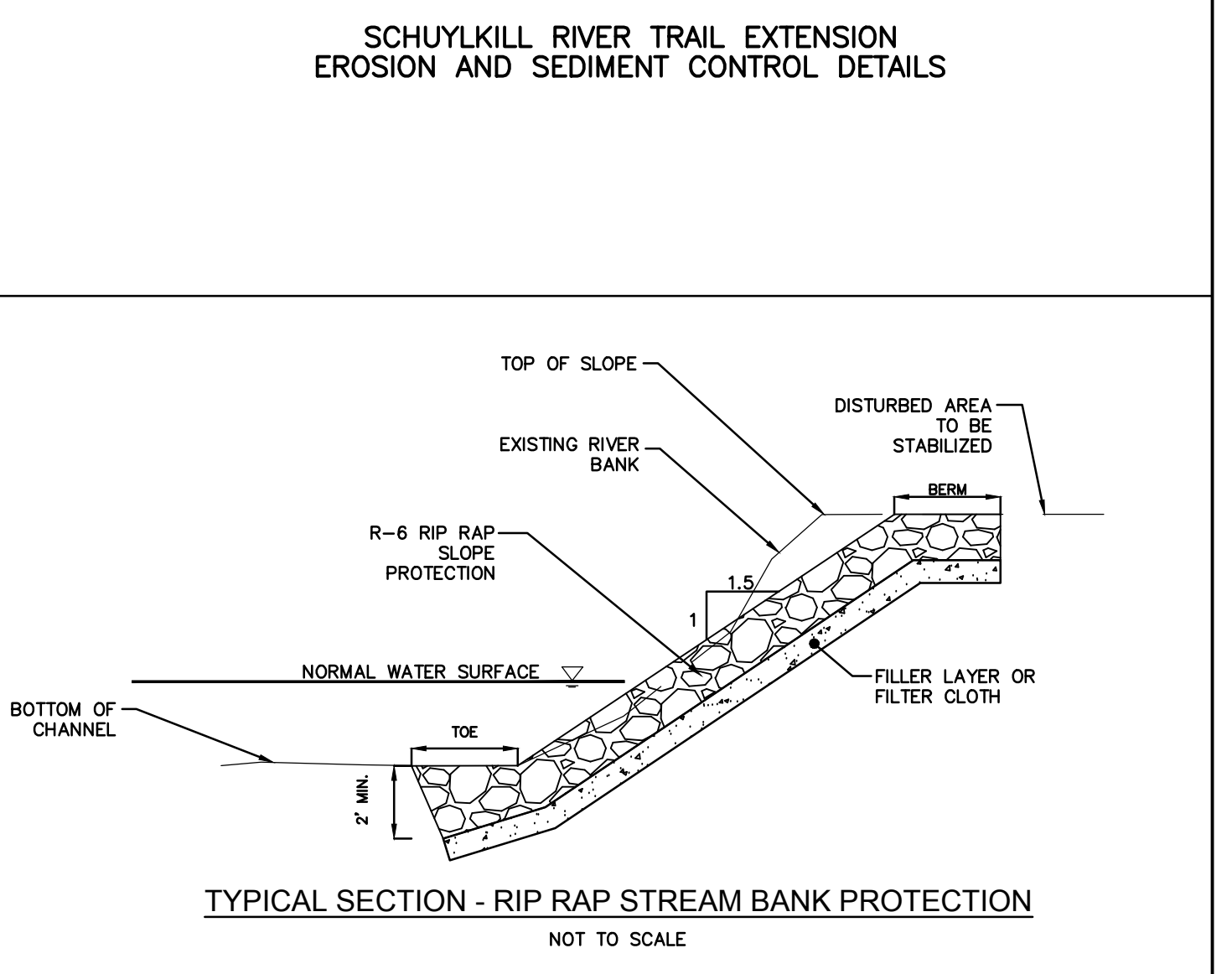


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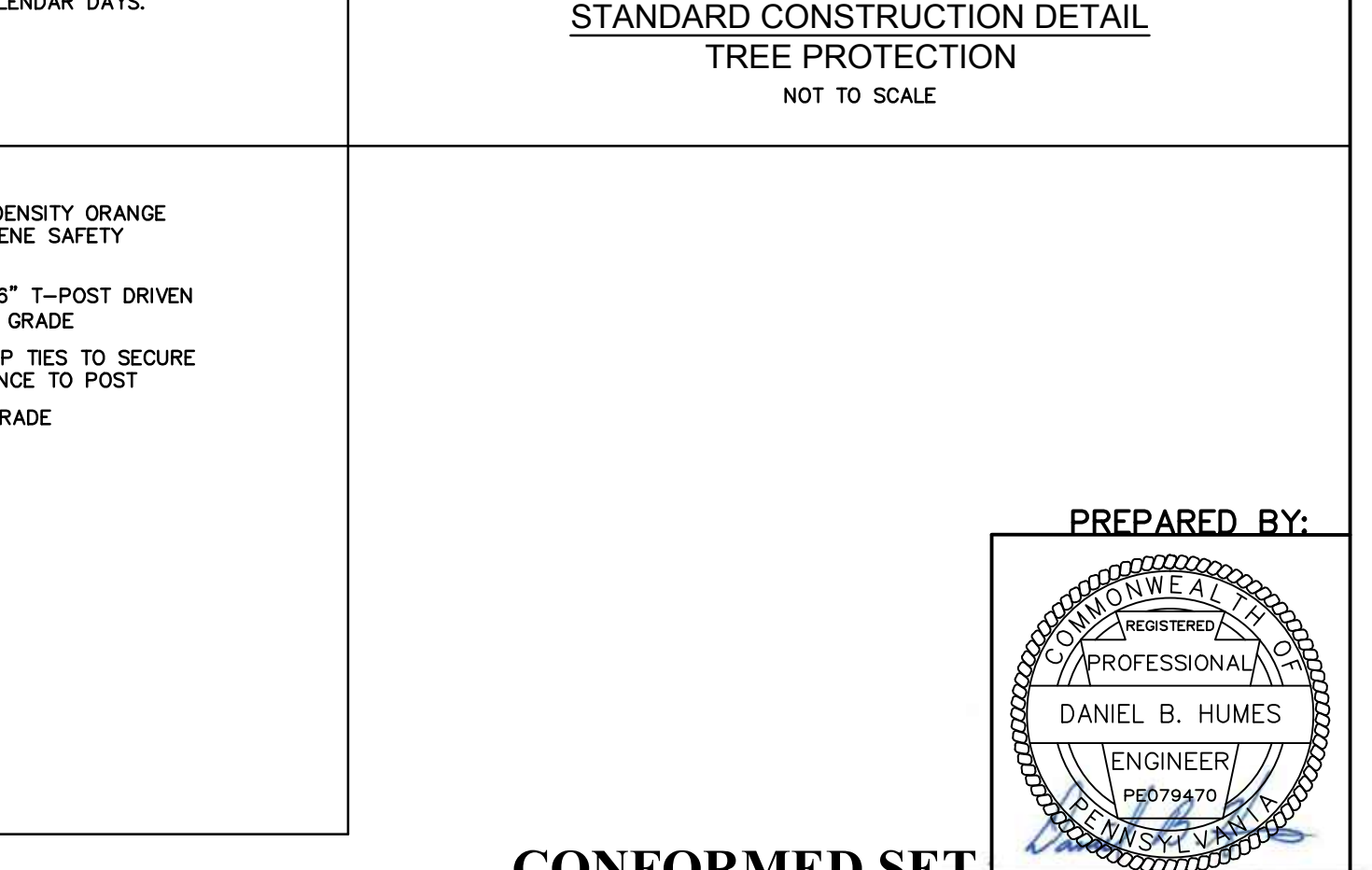


DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		17 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS			DATE
A	CONFORMED SET			11/2/2015
				JAB

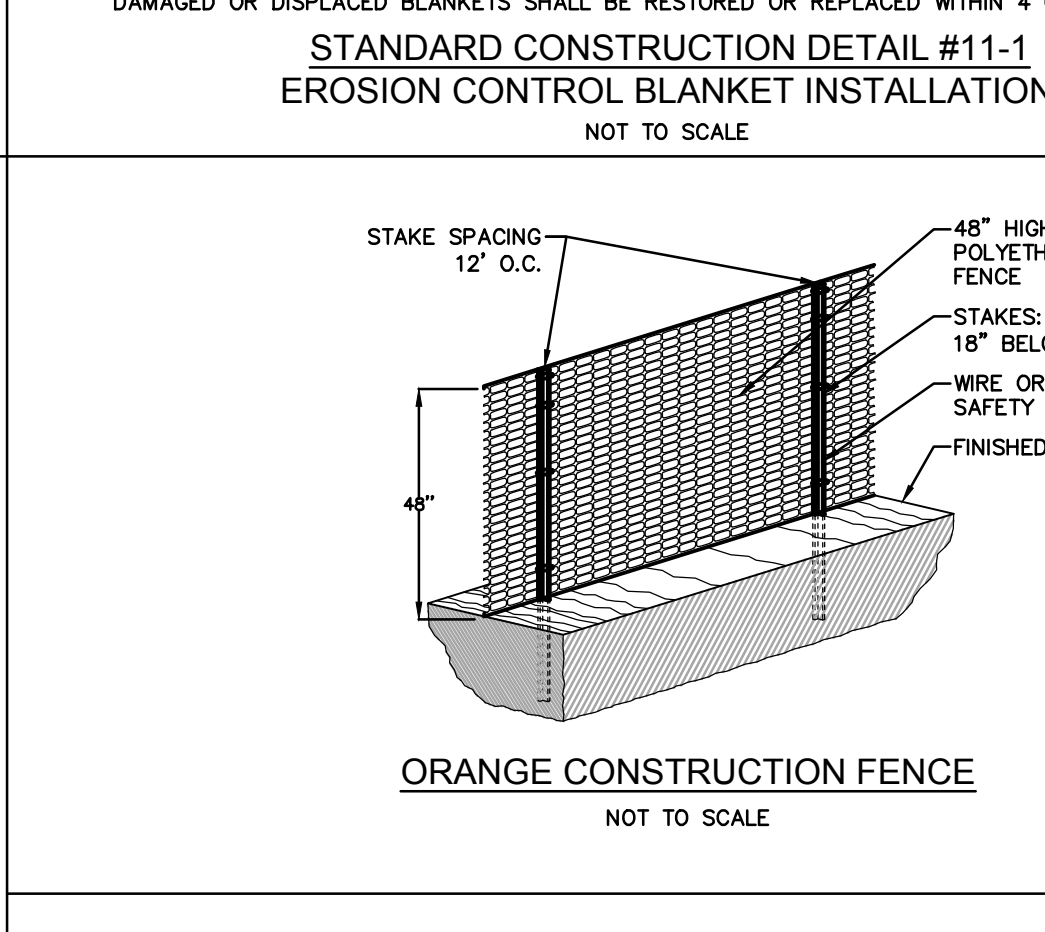
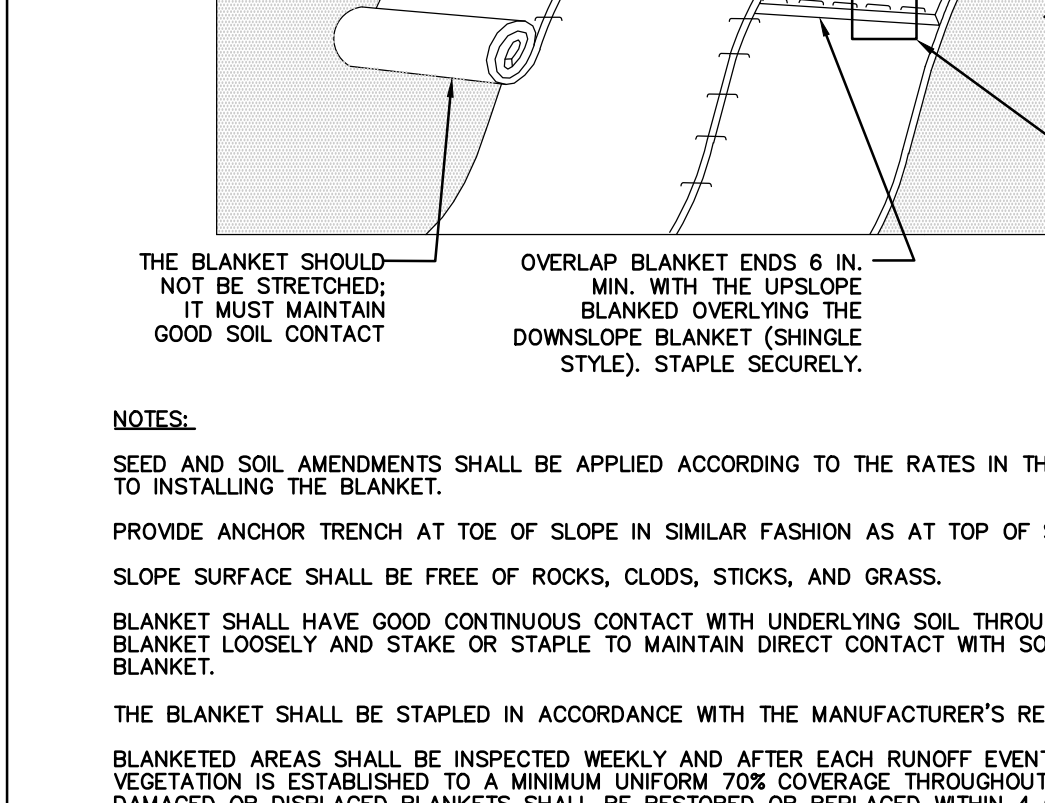
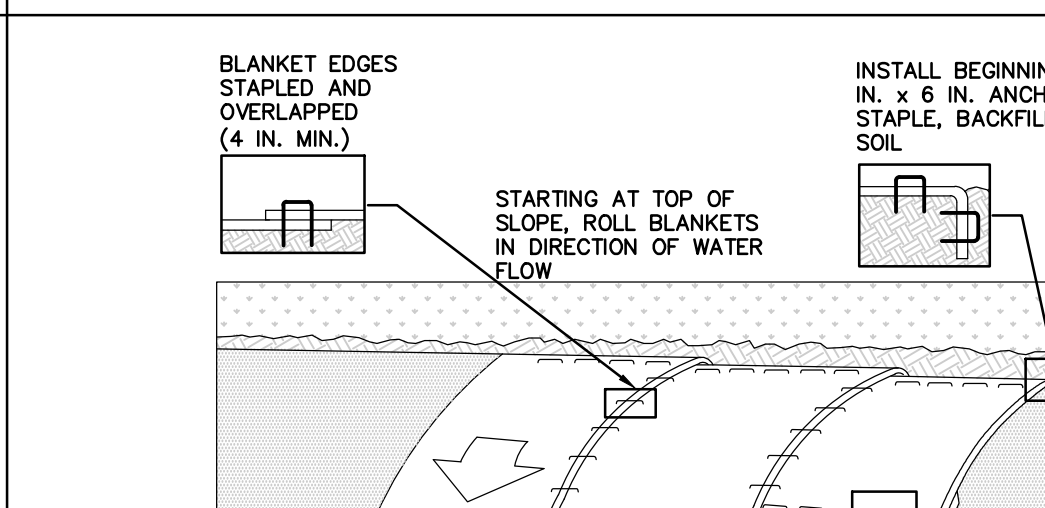
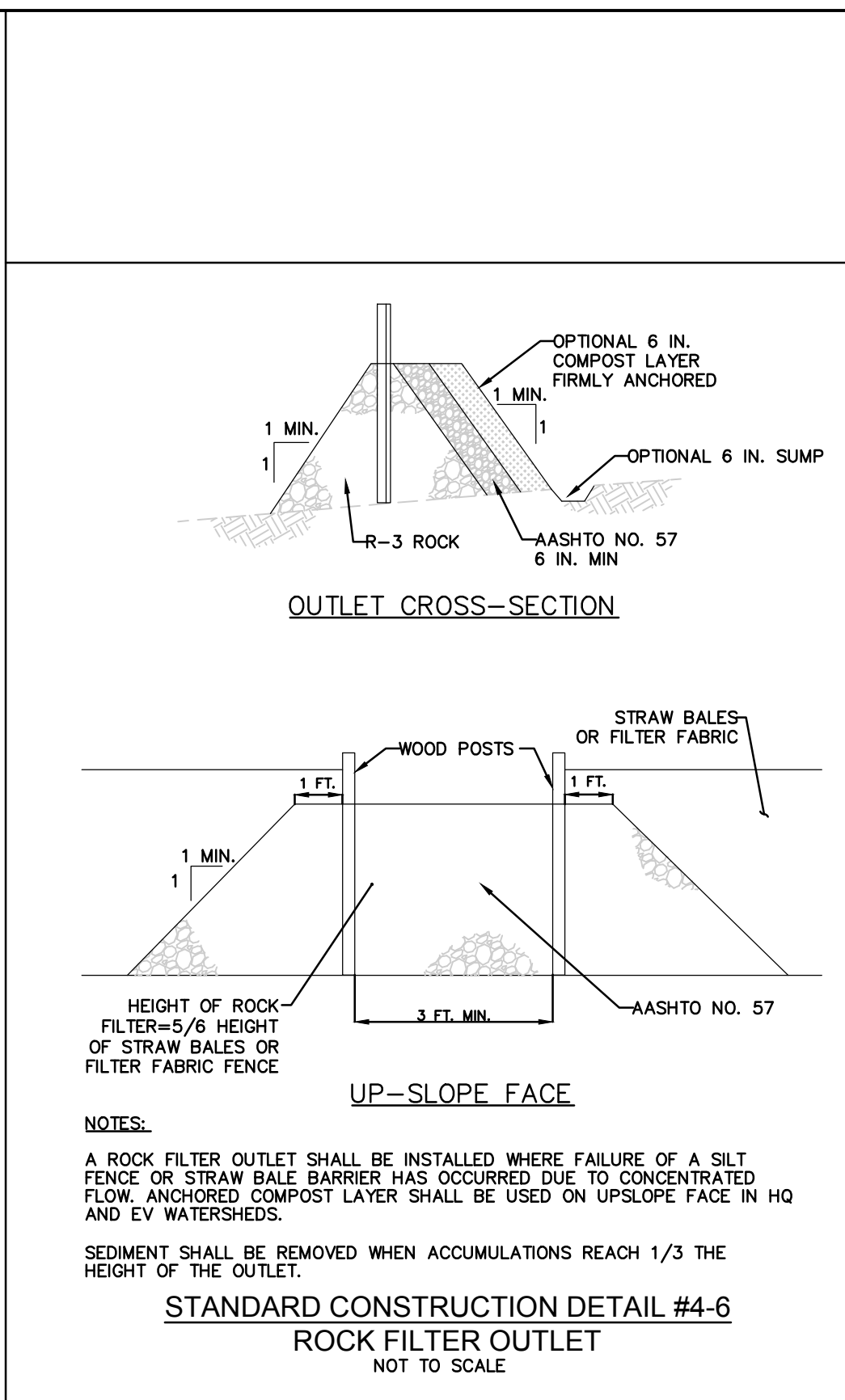


TREE PROTECTION NARRATIVE:

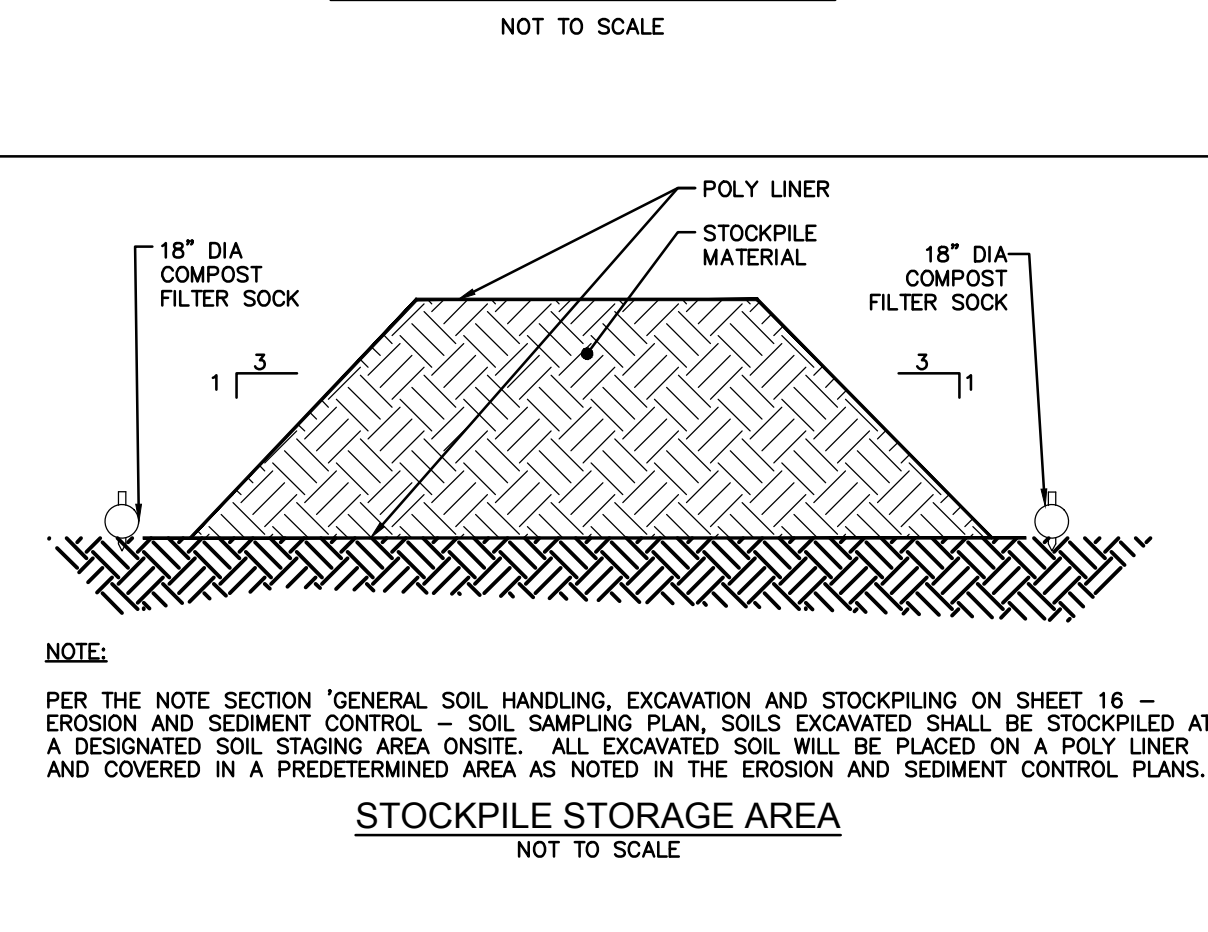
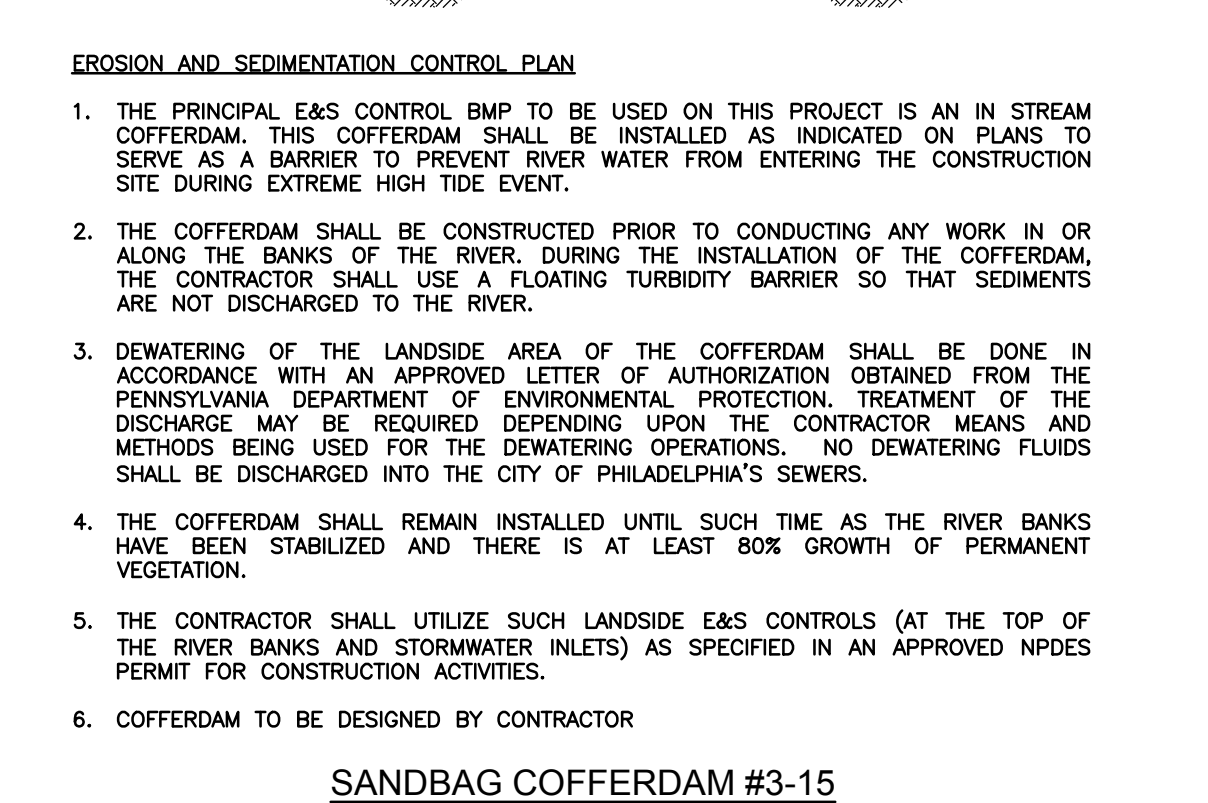
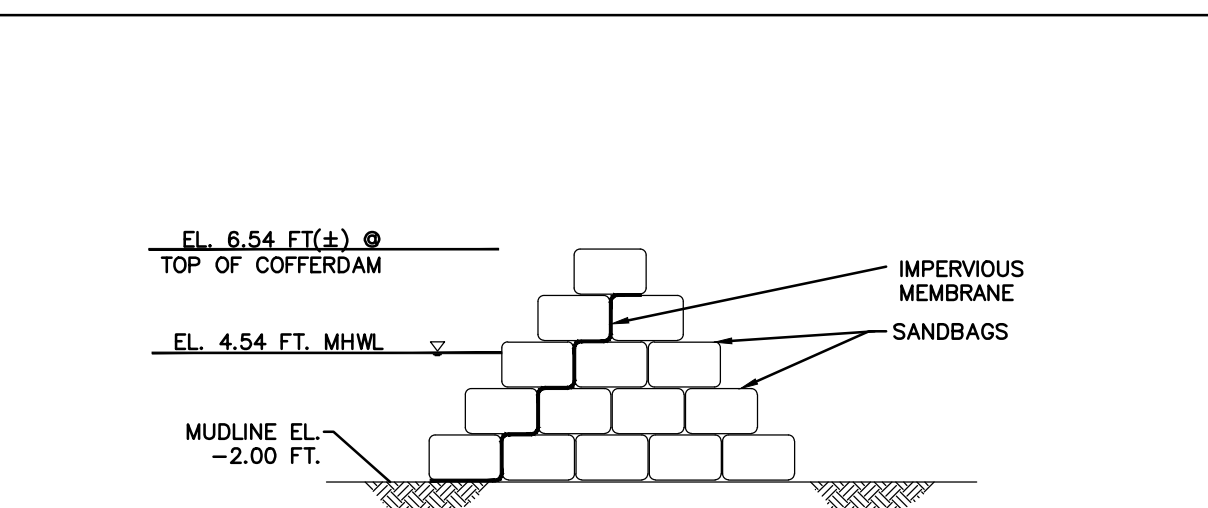
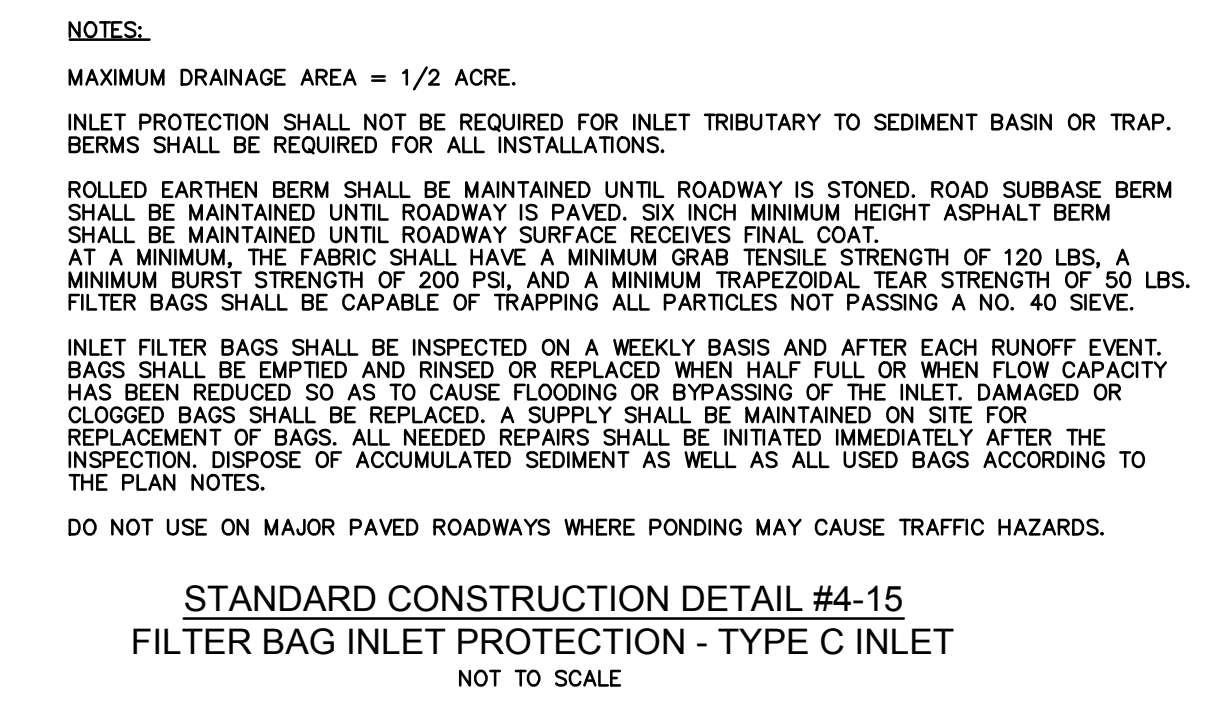
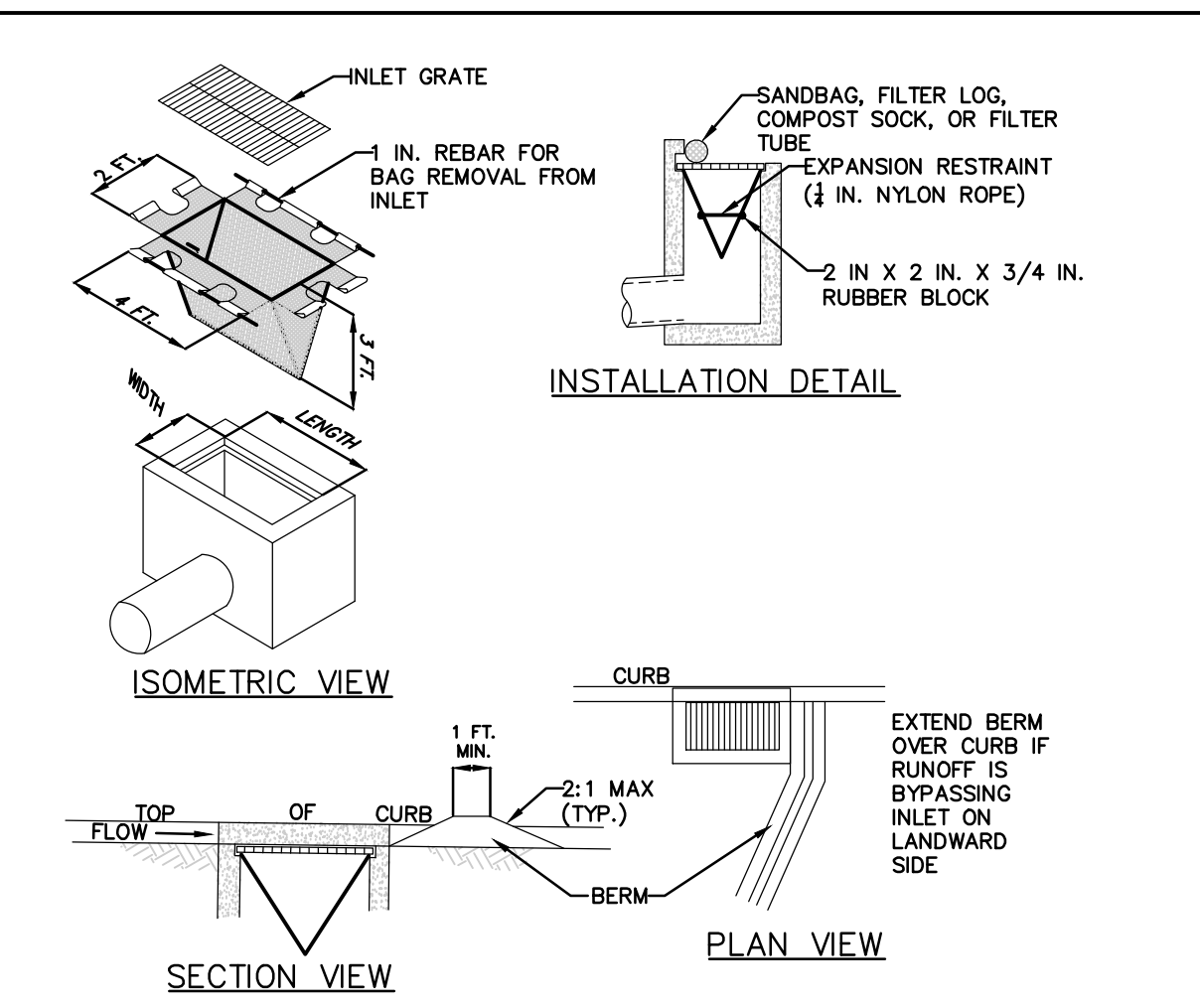
- TREES WHICH HAVE BEEN DELINEATED ON THE PLAN AND ARE WITHIN 25 FEET OF PROPOSED TRAIL OR OTHER LOCATIONS DEEMED APPROPRIATE BY THE DESIGN ENGINEER SHALL BE PROTECTED BY INSTALLING AND MAINTAINING A FENCE AT THE DRIP LINE.
- NO BOARDS OR OTHER MATERIAL SHALL BE NAILED TO TREES DURING CONSTRUCTION.
- HEAVY EQUIPMENT OPERATORS SHALL AVOID DAMAGING EXISTING TREE TRUNKS AND ROOTS. FEEDER ROOTS SHALL NOT BE CUT CLOSER THAN 25 FEET FROM TREE TRUNKS.
- TREE TRUNKS AND EXPOSED ROOTS DAMAGED DURING CONSTRUCTION SHALL BE PROTECTED FROM FURTHER DAMAGE BY BEING TREATED IMMEDIATELY.
- TREE LIMBS DAMAGED DURING CONSTRUCTION SHALL BE PROPERLY PRUNED AND TREATED IMMEDIATELY.
- THE OPERATIONS OF HEAVY EQUIPMENT OVER ROOT SYSTEMS OF SUCH TREES SHALL BE MINIMIZED IN ORDER TO PREVENT SOIL COMPACTON.
- DAMAGED TREES SHALL BE FERTILIZED TO AID IN THEIR RECOVERY.
- CONSTRUCTION DEBRIS SHALL NOT BE DISPOSED OF NEAR OR AROUND THE BASES OF SUCH TREES.
- TREE/SOIL PROTECTION MAY BE TEMPORARILY MOVED ONLY FOR GRADING, GRUBBING, OR PLANTING WORK THAT OCCURS WITHIN LIMITS OF PROTECTION FENCE. CONTRACTOR SHALL REINSTALL IN ORIGINAL LOCATION IMMEDIATELY FOLLOWING GRUBBING OPERATION, OR DIRECTLY ADJACENT TO NEW PLAN BED IMMEDIATELY FOLLOWING PLANTING OPERATION.



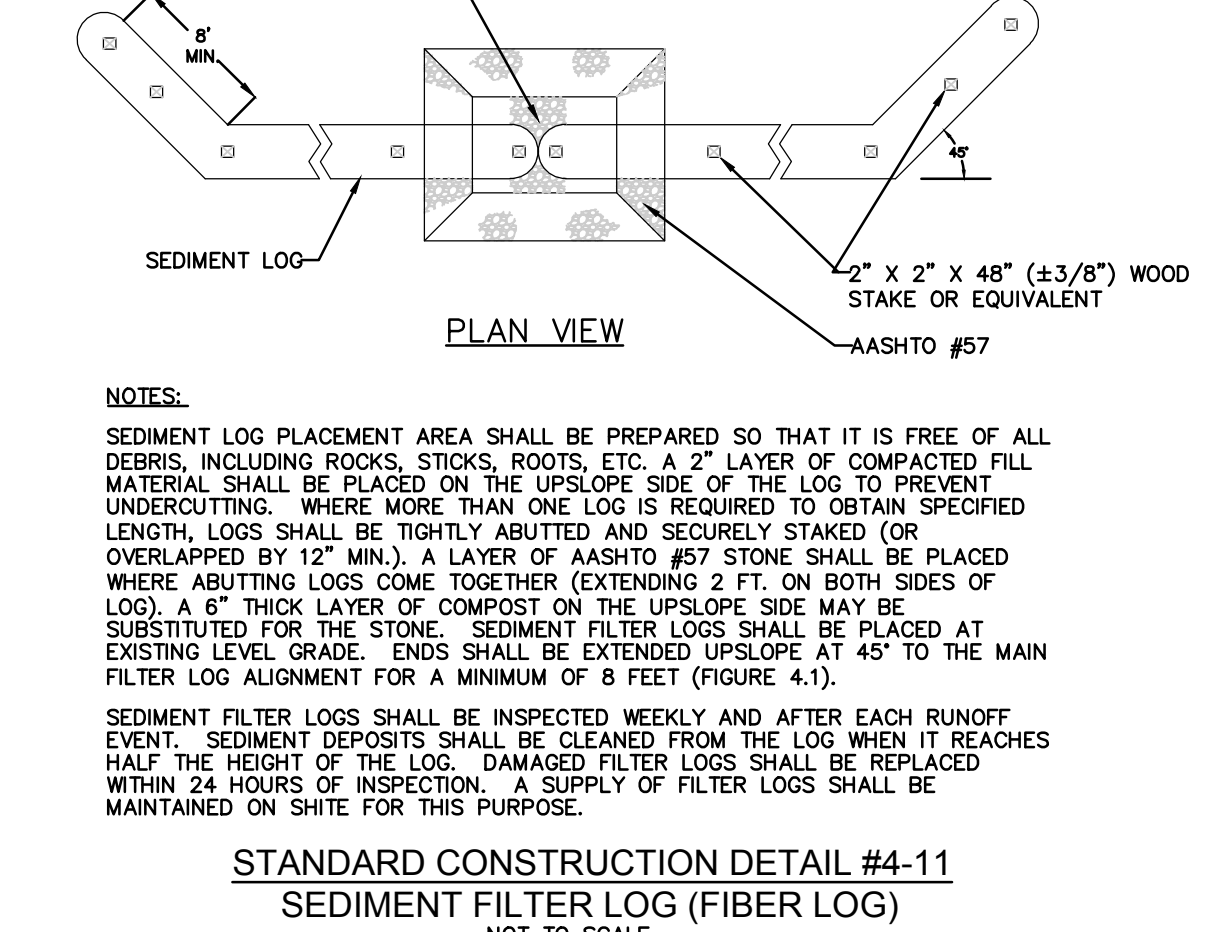
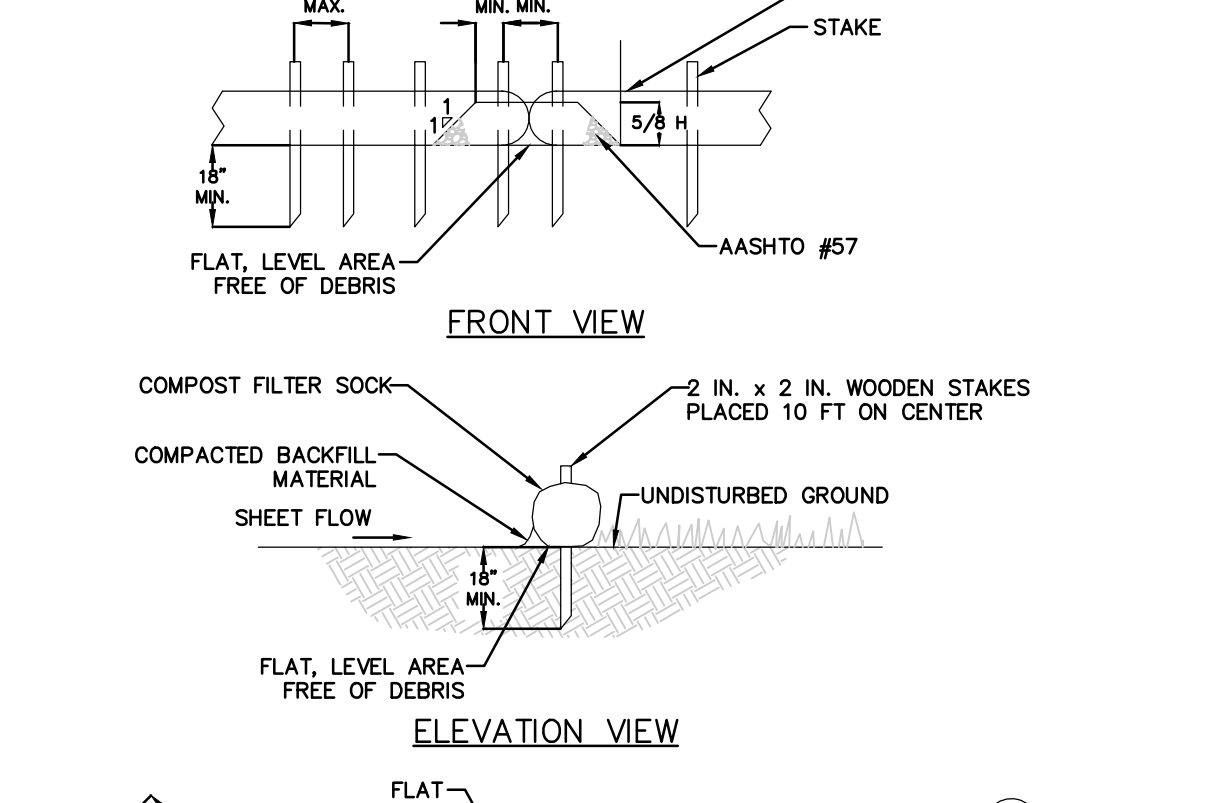
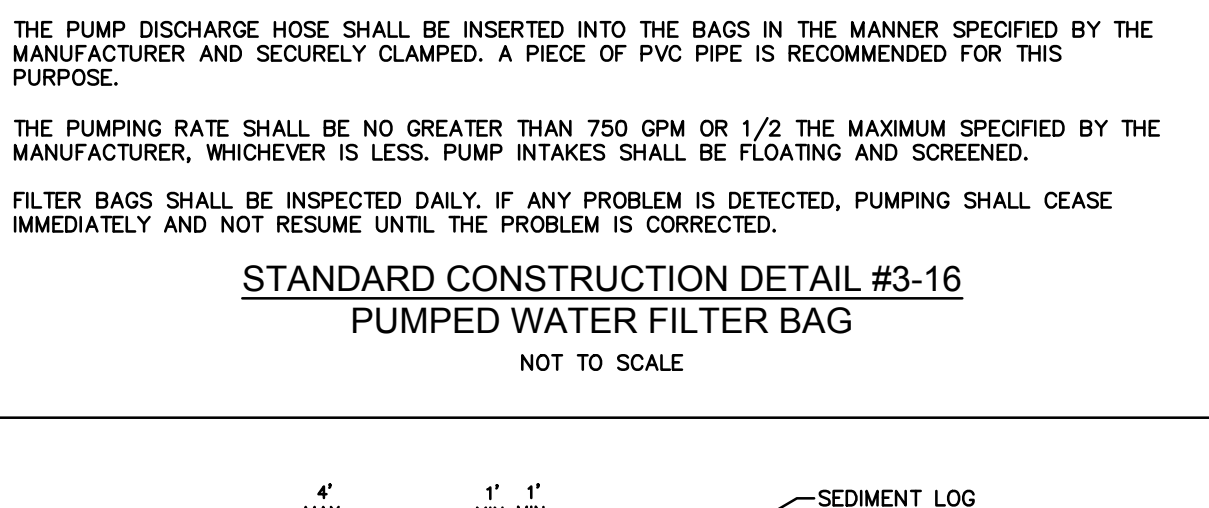
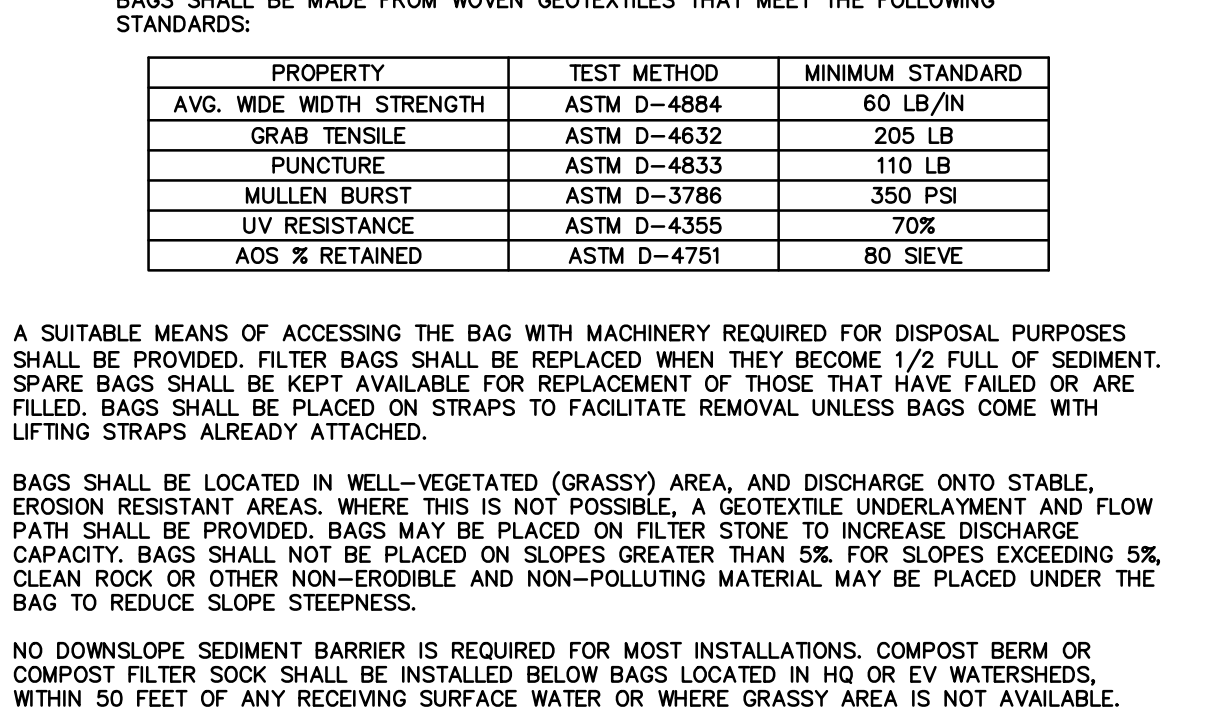
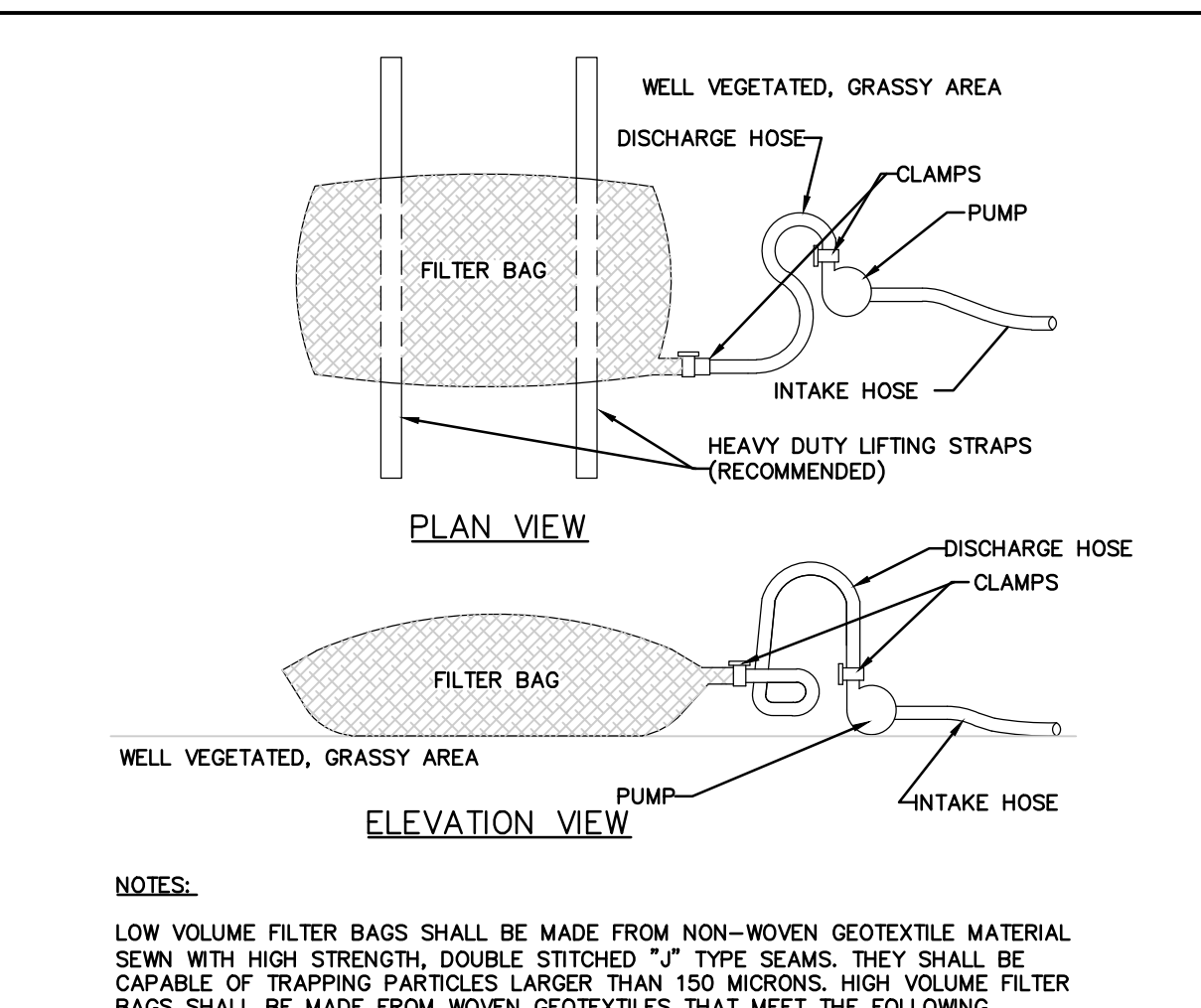
PREPARED BY: DANIEL B. HUMES, ENGINEER, P.E. No. 079470



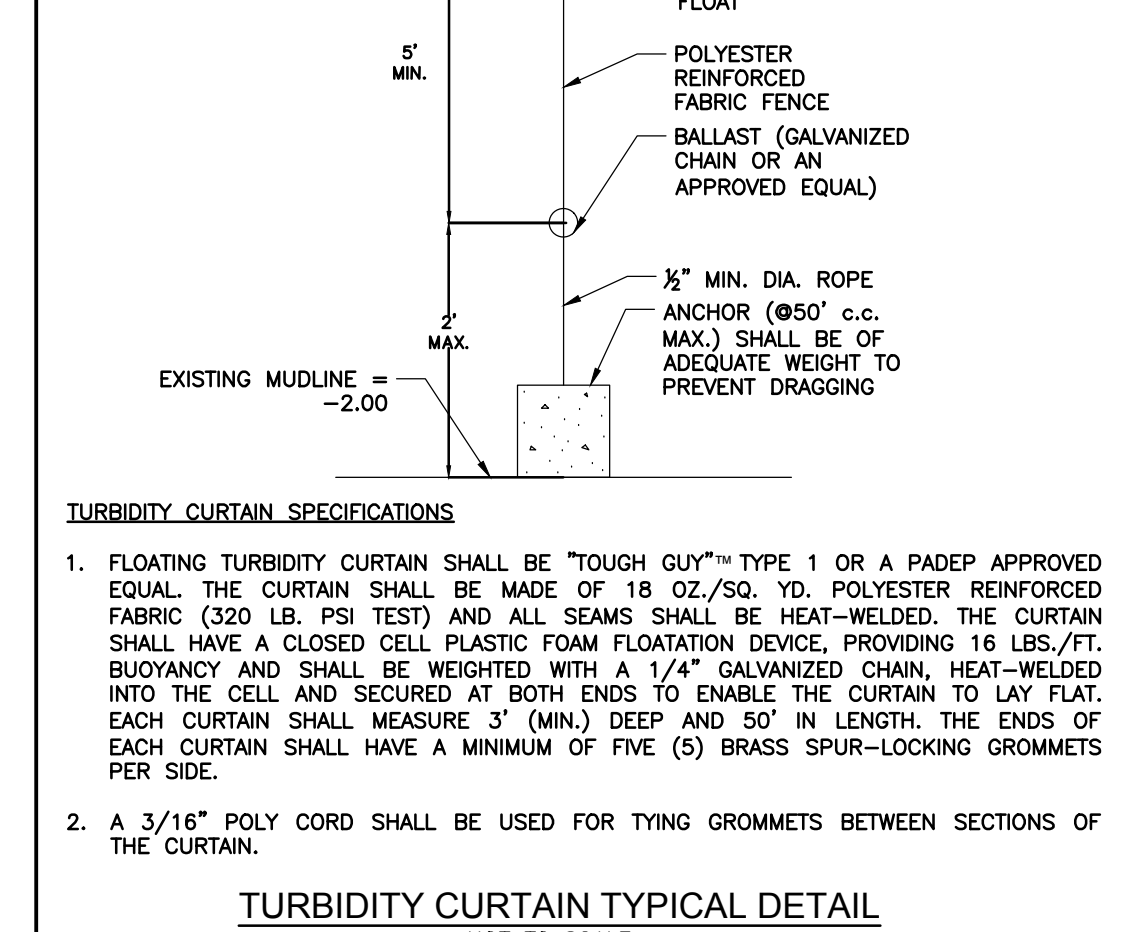
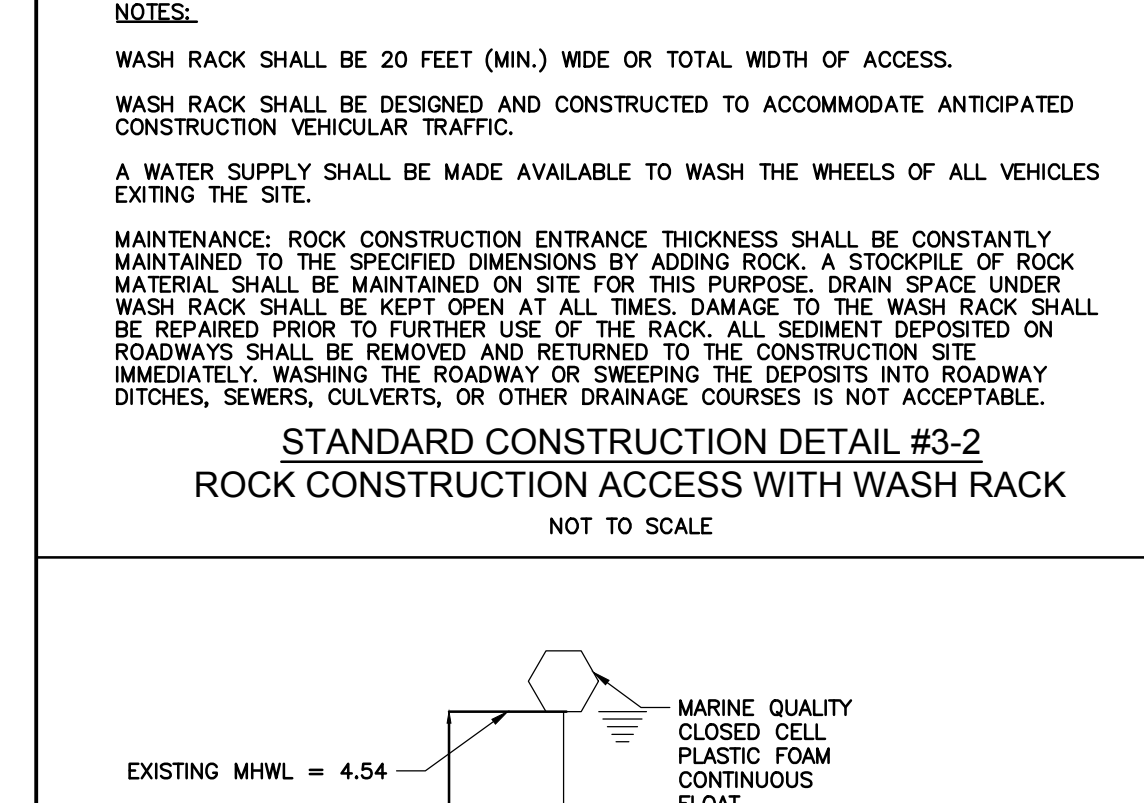
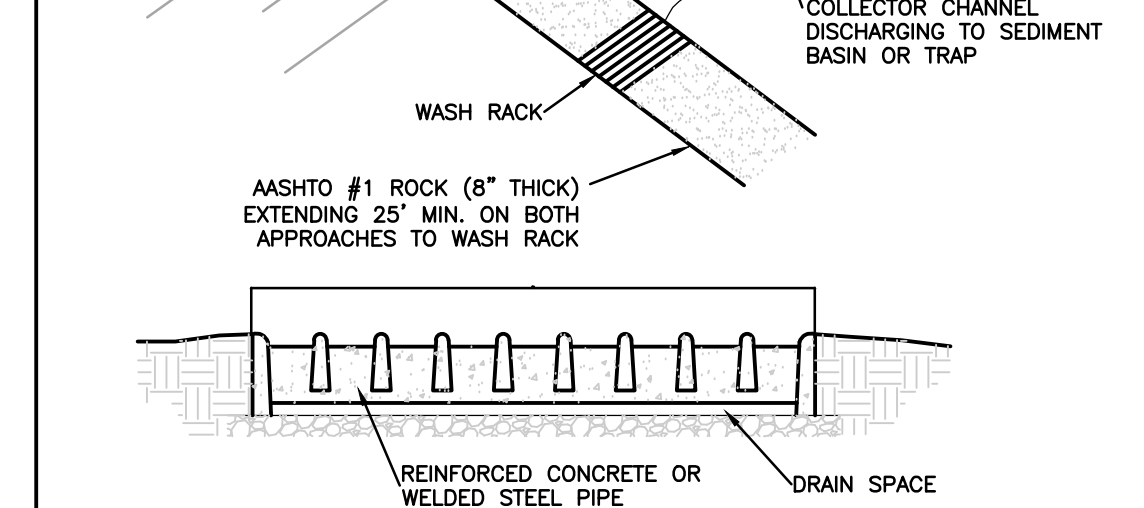
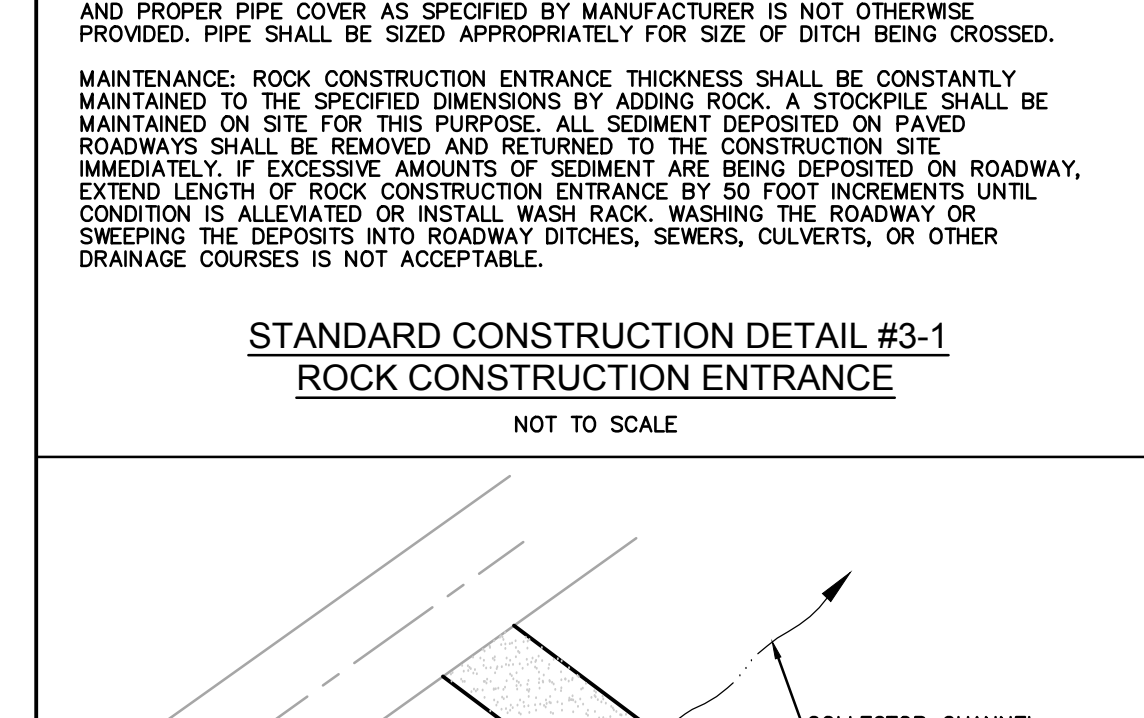
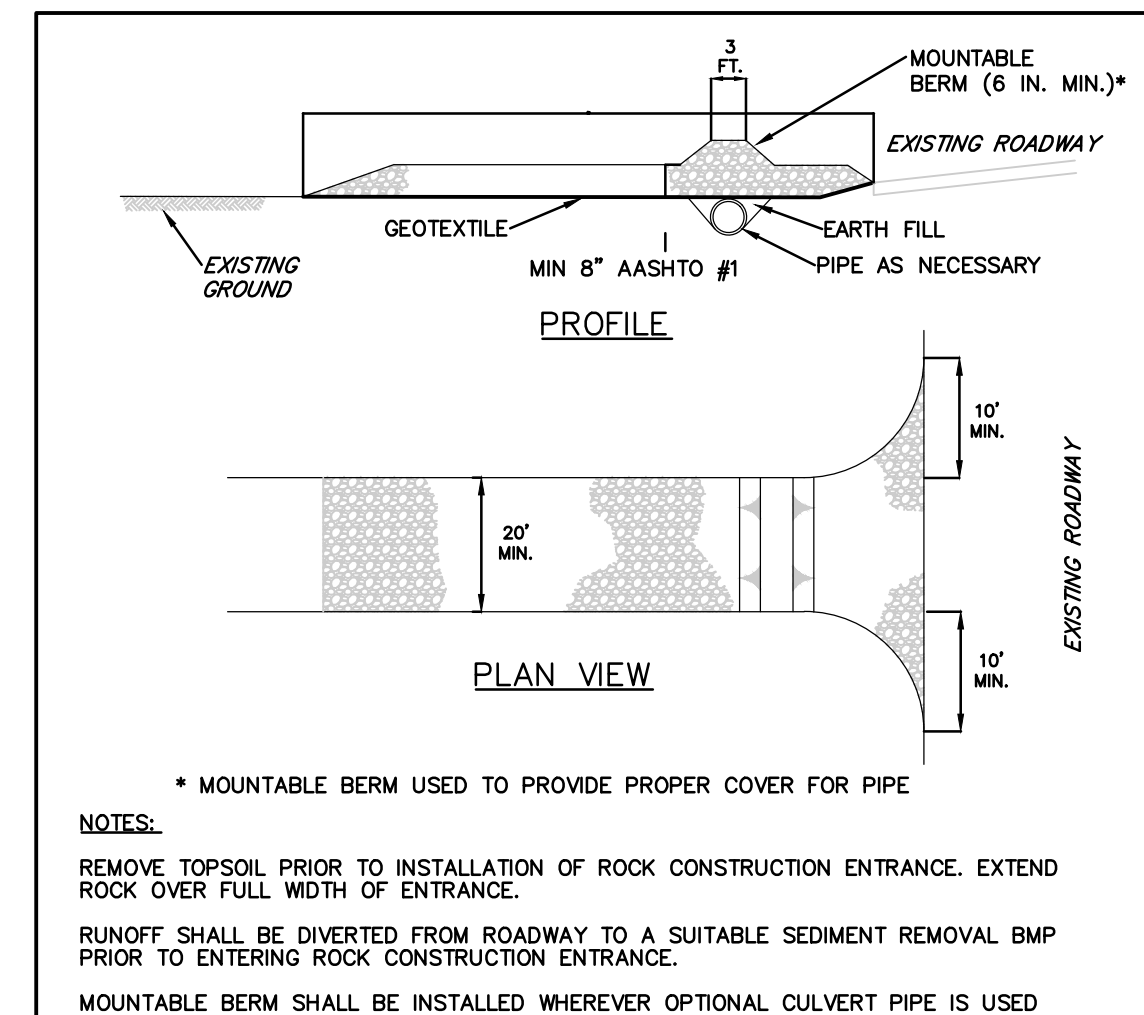
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EROSION AND SEDIMENT CONTROL PLAN NOTES

- 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 (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- 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 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 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 FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- 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 OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- 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 BEGIN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
- 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 THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOTS (SPECIFY LOT NUMBERS) ONTO (SPECIFY ROAD NAMES).
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs 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 PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- 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 REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES — 6 TO 12 INCHES ON COMPACTED SOILS — 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.
- 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.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 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.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- ALL FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEDS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDING AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- 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, BULB OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- 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.
- 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 THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE 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.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
- FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

MAINTENANCE PROGRAM FOR SEDIMENT AND EROSION CONTROLS

THE CONTRACTOR/CREWS SHALL MAINTAIN A SCHEDULE OF INSPECTION AND MAINTENANCE FOR THE EROSION CONTROL FACILITIES AND WATER QUALITY SWALE AS PREVIOUSLY DESCRIBED. THIS WILL INCLUDE A ROUTINE WEEKLY INSPECTION AS WELL AS INDIVIDUAL INSPECTIONS WITHIN 24 HOURS AFTER EACH MEASURABLE RAINFALL EVENT (3.0 MILLIMETERS/0.125-INCHES OF RAINFALL). REMOVAL OF SILT FROM THE WATER QUALITY SWALE AND INLET PROTECTION IS ESSENTIAL TO MAINTAIN THE PROPER STORAGE VOLUMES AND PROVIDE THE PROPER FILTRATION CAPABILITIES. SILT FENCE THAT HAS BEEN UNDERMINED OR DAMAGED MUST BE REPAIRED AND SEDIMENTS MUST BE REMOVED TO PREVENT WATER QUALITY VIOLATIONS. ADDITIONALLY, SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE SILT FENCE.

SEDIMENT REMOVED FROM THE SILT FENCING AND OTHER E&S CONTROLS WILL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED FACILITY WITH APPROPRIATE E&S CONTROLS. ANY EXCESS EXCAVATED MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH PA DEP. ALL PREVENTATIVE AND REMEDIAL WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY AFTER THE COMPLETION OF A STORM EVENT.

THE CONTRACTOR IS ADVISED THAT THE ACTUAL NPDES PERMIT FOR THE PROJECT HAS VERY SPECIFIC MONITORING AND INSPECTION REQUIREMENTS, INCLUDING THE KEEPING OF A WRITTEN RECORD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE NPDES REQUIREMENTS.

ROCK CONSTRUCTION ENTRANCE:

- THE STRUCTURE'S THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED BY USE OF A VACUUM TYPE ROAD SWEEPER AND RETURNED TO THE CONSTRUCTION SITE.

FILTER FABRIC SILT FENCE OR SEDIMENT FILTER LOG:

- THE FENCE OR LOG INSTALLATION SHALL BE INSPECTED WEEKLY, BEFORE ANY ANTICIPATED PARTICIPATION EVENT, AND AFTER ALL PRECIPITATION EVENTS. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY.
- ACCUMULATED SEDIMENTS WILL BE REMOVED AS REQUIRED TO KEEP THE FENCE OR LOG FUNCTIONAL. IN ALL CASES REMOVE DEPOSITS WHERE ACCUMULATIONS REACH 1/2 THE ABOVE-GROUND HEIGHT OF THE FENCE OR LOG.
- ALL UNDERCUTTING OR EROSION OF THE TOE ANCHOR WILL BE REPAIRED IMMEDIATELY WITH COMPACTED BACKFILL MATERIALS.

ROCK FILTER OUTLETS:

- THE ROCK FILTER OUTLET SHALL BE INSPECTED WEEKLY, BEFORE ANY ANTICIPATED PARTICIPATION EVENT, AND AFTER ALL PRECIPITATION EVENTS. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY.
- ACCUMULATED SEDIMENTS WILL BE REMOVED AS REQUIRED TO KEEP THE FENCE FUNCTIONAL. IN ALL CASES REMOVE DEPOSITS WHERE ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.

SEEDING AND MULCHING OF DISTURBED AREAS AND NEW SLOPES:

- EROSION CONTROL MAT SHALL BE INSTALLED ON SLOPES 3:1 OR STEEPER. DISTURBED AREAS AND NEW SLOPES SHALL BE INSPECTED WEEKLY, BEFORE ANY ANTICIPATED PARTICIPATION EVENT, AND AFTER ALL PRECIPITATION EVENTS.
- MISSING MULCH SHALL BE REPLACED. RESEEDED AND MULCHED UNTIL THE ESTABLISHMENT OF GOOD VEGETATED COVER.

VISUAL INSPECTIONS

THE CONTRACTOR MUST ENSURE THAT VISUAL SITE INSPECTIONS ARE CONDUCTED AND DOCUMENTED WEEKLY, AND WITHIN 24 HOURS AFTER EACH MEASURABLE STORMWATER EVENT THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL THE RECEIPT AND ACKNOWLEDGEMENT OF THE NOT BY THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT. THE VISUAL SITE INSPECTIONS AND REPORTS SHALL BE COMPLETED ON A FORM DEVELOPED BY THE DEPARTMENT, AND CONDUCTED BY QUALIFIED PERSONNEL, TRAINED AND EXPERIENCED IN EROSION AND SEDIMENT CONTROL, TO ASCERTAIN THAT E&S, PCSM AND PPC BMPs ARE PROPERLY CONSTRUCTED AND MAINTAINED TO EFFECTIVELY MINIMIZE POLLUTION TO THE WATERS OF THIS COMMONWEALTH. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT AND INCLUDE AT A MINIMUM:

- A SUMMARY OF SITE CONDITIONS, E&S AND PCSM BMPs, IMPLEMENTATION AND MAINTENANCE AND COMPLIANCE ACTIONS; AND
- THE DATE, TIME, NAME AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION.

RECYCLING OR DISPOSAL OF MATERIALS

THIS PROJECT WILL GENERATE SEVERAL WASTE PRODUCTS THAT WILL HAVE TO BE REMOVED OFF-SITE. THESE INCLUDE EXCAVATED MATERIALS AND RESIDUAL WASTE. WASTE MATERIALS MUST BE DISPOSED OF IN ACCORDANCE WITH THE COMMONWEALTH OF PENNSYLVANIA'S WASTE DISPOSAL STANDARDS.

THESE CONTRACT DOCUMENTS REQUIRE THE CONTRACTOR/CREWS TO MONITOR EARTH DISTURBANCE ACTIVITIES FOR THE POTENTIAL PRESENCE OF MUNICIPAL WASTE OR SUBSURFACE CONTAMINATION. IF ENCOUNTERED, A SPECIAL DISPOSAL PLAN WILL NEED TO BE DEVELOPED BY THE CONTRACTOR/CREWS.

THE CONTRACTOR/CREWS SHALL PROVIDE A MATERIAL MANAGEMENT PLAN TO IDENTIFY THE SPECIFIC DISPOSAL SITES FOR EACH CLASSIFICATION OF MATERIALS. IF A PROPOSED DISPOSAL SITE DOES NOT HAVE AN APPROVED E&S CONTROL PLAN OR THE REQUIRED LOCAL/STATE/FEDERALLY ISSUED OPERATING LICENSES, THAT SITE CANNOT BE USED.

MANAGEMENT OF FILL AND EXCAVATED MATERIALS

THE CONTRACTOR MUST USE ENVIRONMENTAL DUE DILIGENCE TO ENSURE THAT THE FILL MATERIAL ASSOCIATED WITH THIS PROJECT QUALIFIES AS CLEAN FILL. DEFINITIONS OF CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE ARE PROVIDED BELOW. ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL," DOCUMENT NUMBER 258-2182-773. A COPY OF THIS POLICY IS AVAILABLE ONLINE AT WWW.DEPWEB.STATE.PA.US. UNDER THE HEADING QUICK ACCESS ON THE LEFT SIDE OF THE SCREEN, CLICK ON "FORMS AND PUBLICATIONS." ON THE LEFT SIDE OF THE SCREEN CLICK ON "TECHNICAL GUIDANCE DOCUMENTS - FINAL." THEN TYPE THE DOCUMENT NUMBER 258 2182 773 INTO THE SEARCH WINDOW AND CONDUCT THE SEARCH. CLICK ON "MANAGEMENT OF FILL."

CLEAN FILL IS DEFINED AS:

UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREGGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.)

CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE:

FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL."

PADEP FORM FP-001 SHALL BE REQUIRED:

ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE PADEP FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL AND MUST BE KEPT ON SITE AND MADE AVAILABLE UPON REQUEST BY THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT. FAILURE TO PRODUCE THE FORM UPON REQUEST MAY RESULT IN THE REVOKING, SUSPENSION OR TERMINATION OF YOUR PERMIT COVERAGE.

ENVIRONMENTAL DUE DILIGENCE:

INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS, ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL."

FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE.

FINAL SITE GRADING AND SLOPE STABILIZATION

CONSTRUCTION WILL RESULT IN SOME EMBANKMENTS HAVING GREATER THAN A 3V:1H SLOPE. IN THESE AREAS AN EROSION CONTROL BLANKET WILL BE REQUIRED. THE PLACEMENT OF THESE BLANKETS WILL BE DONE IN ACCORDANCE WITH SUPPLIED MANUFACTURER'S SPECIFICATIONS. TYPICALLY THE SITE IS FINAL GRADED AND THE UPPER 6-INCHES OF SOIL TREATED WITH SOIL AMENDMENTS. IN THIS CASE THE TOP SOIL MIX WILL INCLUDE A MIXTURE OF AT LEAST 50% COMPOST. ONCE THE SITE IS FINAL GRADED AND THE EROSION CONTROL BLANKET HAS BEEN INSTALLED THE SURFACE WILL THEN BE COVERED WITH AT LEAST 1-INCH OF TOPSOIL AND THEN THE AREA SEEDDED. DEPENDING UPON THE BRAND OF EROSION CONTROL BLANKET BEING USED THE TOP COVERING WITH TOPSOIL MAY BE LISTED AS AN "OPTION". FOR THIS PROJECT THE TOPSOIL COVERING IS NOT AN OPTION AND SHALL BE APPLIED IN ALL CASES.

THE ABOVE LISTING IS NOT ALL INCLUSIVE AND THERE MAY BE OTHER DATA AND MEASUREMENTS REQUIRED FOR PCSM PLAN CERTIFICATION. THESE OTHER REQUIREMENT SHOULD BE REVIEWED WITH THE CITY, TOWNSHIP, COUNTY CONSERVATION DISTRICT AND PADEP AT THE MANDATORY PRE-CONSTRUCTION MEETING.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		18 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

**SCHUYLKILL RIVER TRAIL EXTENSION
EROSION AND SEDIMENT CONTROL NOTES-1**

SOIL INFORMATION FOR PHILADELPHIA COUNTY

THE SOIL INFORMATION FOR THIS PROJECT WAS OBTAINED FROM THE U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE SOIL SURVEY FOR PHILADELPHIA AND BUCKS COUNTIES, DATED 1975.

THE SOIL SURVEY INDICATES THAT THE SOILS ENCOMPASSING THE PROJECT AREA ARE URBAN LAND (UB). THIS LAND IS IN HIGHLY BUILT-UP AREAS OF BUCKS AND PHILADELPHIA COUNTIES. MOST URBAN LAND IS ON TERRACES OF THE UPLANDS AND COASTAL PLAIN; HOWEVER, SOME IS ON THE FLOOD PLAIN. THE SOILS AND FOUNDATION MATERIALS ARE HIGHLY VARIABLE. URBAN STRUCTURES AND WORKS COVER SO MUCH OF THIS LAND TYPE THAT IDENTIFICATION OF THE SOILS IS NOT PRACTICAL. MOST AREAS HAVE BEEN SMOOTHED, AND THE ORIGINAL SOIL MATERIAL HAS BEEN DISTURBED, FILLED OVER, OR OTHERWISE DESTROYED PRIOR TO CONSTRUCTION.

ADDITIONAL NOTES FOR NPDES PERMIT PROJECTS

- CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER 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.
- UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
- CHANNELS HAVING RIPRAP, RENO MATRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING.
- SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS.
- SEDIMENT BASINS SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THIRD PARTIES.
- ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITTEE IN A PERMANENT MANNER SATISFACTORY TO THE MUNICIPALITY, LOCAL CONSERVATION DISTRICT, AND THE OWNER OF THE DAMAGED PROPERTY.
- UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWING) FOR ANY SEDIMENT BASIN OR TRAP TO THE MUNICIPAL INSPECTOR, LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- 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.
- FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 8 INCH LAYERED LIFTS AT 95% DENSITY.

ADDITIONAL COUNTY/CITY SPECIFIC NOTES

CITY OF PHILADELPHIA:

- AN INDUSTRIAL WASTE PERMIT WILL BE REQUIRED SHOULD PUMPING TO CITY-OWNED INFRASTRUCTURE BECOME NECESSARY DURING CONSTRUCTION.
- INLET PROTECTION SHOULD BE PROVIDED FOR ALL INLETS OWNED BY PWD THAT ARE LOCATED WITHIN ONE BLOCK OF THE PROJECT SITE.
- PWD IS NOT RESPONSIBLE FOR ANY CLEANING OR REPAIRS NEEDED ON CITY-OWNED INFRASTRUCTURE DUE TO FAILURE OF ANY EROSION AND SEDIMENT CONTROL PRACTICES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CLEAN AND REPAIR ANY DAMAGE CAUSED BY THEIR ACTION OR INACTIONS.
- INSPECTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT BEST MANAGEMENT PRACTICES SHALL OCCUR ON A WEEKLY BASIS, BEFORE ANY ANTICIPATED PRECIPITATION EVENTS, AND AFTER ALL PRECIPITATION EVENTS.
- THE MAXIMUM HEIGHT FOR STOCKPILES AREAS SHALL BE 35 FEET.
- THE MAXIMUM SIDE SLOPE FOR STOCKPILE AREAS SHALL NOT EXCEED 2:1.
- 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.
- FILTER FABRIC FENCE SHOULD BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION SHOULD BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. 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.
- 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.
- PRIOR TO ANY EARTH DISTURBANCE, THE INSPECTIONS COORDINATOR OF PWD (OFFICE 215-685-6387) MUST BE CALLED TO SCHEDULE A PRE-CONSTRUCTION MEETING.

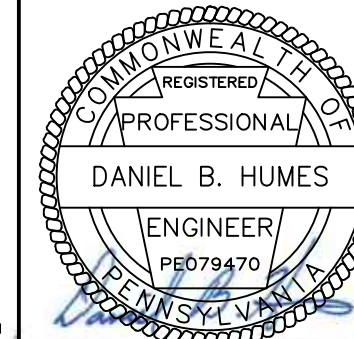
CONTRACTORS/OPERATORS WHO ARE NOT THE PERMITTEE SHALL BE CO-PERMITTEES

FEDERAL NPDES REGULATIONS AT 40 C.F.R. §122.21(B) REQUIRE THAT CONTRACTOR/OPERATOR(S) MUST BECOME A PERMITTEE. AN OPERATOR IS A PERSON WHO MEETS EITHER OF THE FOLLOWING CRITERIA: 1.) YOU HAVE OPERATIONAL CONTROL OF CONSTRUCTION PROJECT PLANS AND SPECIFICATIONS, INCLUDING THE ABILITY TO MAKE MODIFICATIONS TO THOSE PLANS AND SPECIFICATIONS; OR 2.) YOU HAVE DAY-TO-DAY OPERATIONAL CONTROL (SUPERVISION) OF THOSE ACTIVITIES AT THE PROJECT THAT ARE NECESSARY TO ENSURE COMPLIANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN FOR THE SITE OR ENSURE COMPLIANCE WITH OTHER PERMIT CONDITIONS, I.E., GENERAL CONTRACTORS. SUBCONTRACTORS GENERALLY DO NOT HAVE SUPERVISORY CONTROL OVER EARTH DISTURBANCE ACTIVITIES AND THEREFORE USUALLY SHOULD NOT BECOME A PERMITTEE OR CO-PERMITTEE. IF PRIOR TO CONSTRUCTION ACTIVITIES, THERE IS NO OPERATOR, THE OWNER MUST APPLY FOR THE PERMIT. ONCE THE OPERATOR HAS BEEN SELECTED, THE CONTRACTOR/OPERATOR MUST USE PADEP FORM 3150-PM-BWEW0228 TRANSFEREE/CO-PERMITTEE APPLICATION FORM TO HAVE THE PERMIT TRANSFERRED TO THE CONTRACTOR.

FAILURE OF THE CONTRACTOR/OPERATOR TO BE ADDED TO THE PERMIT IS A VIOLATION OF FEDERAL AND STATE LAW AND REGULATION.

THIS APPLICATION MUST BE FILED AT LEAST 30 DAYS PRIOR TO THE PROPOSED CHANGE OF OWNERSHIP AND/OR OPERATIONAL CONTROL WHICH WILL RESULT IN THE TRANSFER OF PERMIT RESPONSIBILITY, COVERAGE AND LIABILITY.

PREPARED BY:



CONFORMED SET

CRITICAL STAGES OF IMPLEMENTATION OF THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN FOR WHICH A LICENSED PROFESSIONAL OR THEIR DESIGNEE SHALL BE PRESENT ON THE PROJECT SITE.

A LICENSED PROFESSIONAL OR THEIR ASSIGNED DESIGNEE SHALL ANNOTATE (MARK-UP) THE POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN (PCSM) TO INDICATE ALL PROJECT CONDITIONS, LOCATIONS, CONFIGURATIONS, AND ANY OTHER CHANGES OR DEVIATIONS THAT VARY FROM THE ORIGINAL PCSM. THESE ANNOTATED RECORD DRAWINGS ARE ACTUAL REPRESENTATIONS OF AS-BUILT CONDITIONS, INCLUDING ALL REVISIONS MADE NECESSARY BY CHANGE ORDERS, DESIGN MODIFICATIONS, REQUESTS FOR INFORMATION AND FIELD ORDERS.

IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY THE OWNER AND THE OWNER'S DESIGNATED LICENSED PROFESSIONAL WHEN THEY ARE REQUIRED ON THE SITE FOR INSPECTIONS. FAILURE OF THE CONTRACTOR TO PROVIDE ADEQUATE NOTIFICATION TO THE OWNER AND OWNER'S LICENSED PROFESSIONAL MAY RESULT IN THE NEED FOR THE CONTRACTOR REMOVE AND REDO ANY INSTALLED WORK THAT HAS NOT BEEN INSPECTED OR DONE IN ACCORDANCE WITH THE APPROVED DOCUMENTS.

DURING THESE INSPECTIONS MAKE CERTAIN THAT THE LICENSE PROFESSIONAL COLLECTS ALL OF THE REQUIRED DOCUMENTS, REPORTS AND PHOTOGRAPHIC RECORDS FOR USE IN COMPLETING RECORD DRAWINGS AND ANY REQUIRED CERTIFICATION PACKAGES.

THE CONTRACTOR IS ALSO REQUIRED TO SUBMIT SHOP DRAWINGS, BILLS-OF-LADING, MATERIAL SHEETS, PHOTOGRAPHS TO DOCUMENT AS-BUILT CONDITIONS AND OTHER DOCUMENTATION TO PROVE THAT THE MATERIALS AND PRODUCTS BEING INSTALLED COMPLY WITH THE APPROVED POST CONSTRUCTION STORMWATER MANAGEMENT PLAN.

THE FOLLOWING ARE CRITICAL STAGES OF IMPLEMENTATION FOR THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN AND REQUIRE INSPECTION BY A LICENSED PROFESSIONAL OR THEIR DESIGNEE:

CRITICAL PCSM SEQUENCE FOR INSTALLATION AND INSPECTION POINTS

PERMEABLE PAVER EXCAVATION

FOR ALL PERMEABLE PAVER OUTLOOK AREAS, ONCE EXCAVATION HAS BEEN COMPLETED BY THE CONTRACTOR, PERMEABLE PAVER BASE DEPTH WILL BE INSPECTED TO ENSURE THAT SUB-BASE ELEVATION ARE AT THE CORRECT DEPTHS.

PERMEABLE PAVER INSTALLATION

WHILE PERMEABLE PAVER OUTLOOK AREAS ARE BEING CONSTRUCTED, PERIODIC INSPECTIONS WILL BE CONDUCTED TO ENSURE THAT THE APPROPRIATE DEPTHS OF AASHTO NO. 3 SUB-BASE IS INSTALLED PER PCSM DETAILS.

CONSTRUCTION SEQUENCE

FOLLOWING IS A SCHEDULE OF EARTHMOVING/CONSTRUCTION ACTIVITIES AND INSTALLATION OF CONTROL MEASURES AND FACILITIES. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS. THEY SHALL BE CONSTRUCTED ACCORDING TO THE DETAILS AND MAINTAINED AS INSTRUCTED ON THE DETAILS AND WITHIN THE EROSION & SEDIMENTATION CONTROL PLAN.

THE PROJECT WILL BE DIVIDED INTO TWO PHASES: PHASE I CLEANUP AND DEMOLITION AND PHASE II TRAIL DEVELOPMENT AND GRADING. STAGES SHALL BE COMPLETED IN COMPLIANCE WITH CHAPTER 102 REGULATIONS BEFORE ANY FOLLOWING STAGE IS INITIATED.

PHASE I

1. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OWNER SHALL INVITE ALL CONTRACTORS INVOLVED IN THE PROPOSED ACTIVITIES, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENTATION CONTROL PLAN PREPARER, AND A REPRESENTATIVE OF THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP) TO AN ON-SITE PRE-CONSTRUCTION MEETING. ALSO, AT LEAST THREE DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INC. AT 1-800-242-1776 FOR BURIED UTILITIES LOCATION.
2. BEFORE IMPLEMENTING ANY REVISIONS TO THE APPROVED EROSION & SEDIMENTATION CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED EROSION & SEDIMENTATION CONTROL PLAN, THE OWNER MUST RECEIVE THE APPROVAL OF THE PA DEP.
3. MAINTAIN TURTLE FENCING AS INDICATED ON THE E&S PLANS AT WASHOUT AREAS ONLY. TURTLE FENCING SHOULD BE MAINTAINED UNTIL OCT. 15TH, WHEN THE RED BELLY TURTLE'S SEASONAL MIGRATION PERIOD ENDS.
4. CLEAR AND GRUB LOCATION FOR TEMPORARY ROCK CONSTRUCTION ENTRANCE.
5. INSTALL ONE (1) TEMPORARY ROCK CONSTRUCTION ENTRANCES AT LOCATION SHOWN IN ACCORDANCE WITH PA DEP E&S STANDARDS. PROVIDE TEMPORARY SECURITY FENCING AND GATES AS REQUIRED BY OWNER.
6. CLEAR AND GRUB SITE WITHIN THE PROPOSED LIMITS OF DISTURBANCE SHOWN ON EROSION AND SEDIMENT CONTROL PLANS. THIS WILL INCLUDE REMOVAL AND DISPOSAL OF UNCLASSIFIED MATERIAL SUCH AS LITTER, DEBRIS, AND IDENTIFIED LIMITS OF FENCING.
7. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ. AND 287 ET SEQ.
8. INSTALL EROSION AND SEDIMENTATION ITEMS (I.E., SILT FENCING) AT LOCATIONS SHOWN ON EXISTING FEATURES AND DEMOLITION PLAN. SILT FENCE SHALL REMAIN IN PLACE UNTIL THE END OF PHASE II.
9. EXCAVATE, REMOVE AND PROPERLY DISPOSE OF CONTAMINATED SOILS FROM THE THREE (3) AREAS INDICATED ON THE CLEANUP DEMOLITION PLAN. CONTAMINATED SOIL SHALL BE DISPOSED OF AT EITHER AN APPROVED DISPOSAL FACILITY WITH AN APPROVED AND CURRENT PADEP SOIL WASTE MANAGEMENT PERMIT, OR AN APPROVED LANDFILL. WASTE MATERIALS, SCRAP OR EXCESS CONSTRUCTION MATERIALS SHALL BE COLLECTED, STORED AND DISPOSED OF IN ACCORDANCE WITH THE SOIL WASTE MANAGEMENT ACT (35 P.S. § § 6018.101-6018.1003), THE MUNICIPAL WASTE PLANNING, RECYCLING AND WASTE REDUCTION ACT (53 P. S. § § 4000.101-4000.1904), THE CLEAN STREAMS LAW (35 P. S. § § 691.1-691.1001) AND RELATED RULES AND REGULATIONS. (TITLE 25, CHAPTER 105, SECTION 46A).
10. SOIL SAMPLING FOR PORTIONS OF THE SITE TO BE CONDUCTED BY OWNER'S REPRESENTATIVE. FOR SOIL SAMPLING ANALYSIS, SEE SHEET 16 - EROSION AND SEDIMENT CONTROL - SOIL SAMPLING PLAN.
11. APPLY RODEO OR APPROVED EQUAL HERBICIDE WITHIN THE LIMIT OF DISTURBANCE IN ORDER TO ELIMINATE INVASIVE SPECIES. THREE SPRAYINGS APPROXIMATELY EIGHT WEEKS APART IS RECOMMENDED.
12. DEMOLISH, REMOVE AND PROPERLY DISPOSE OF BITUMINOUS AND CONCRETE PAVEMENT AREAS INDICATED ON THE EXISTING FEATURES AND DEMOLITION PLAN.

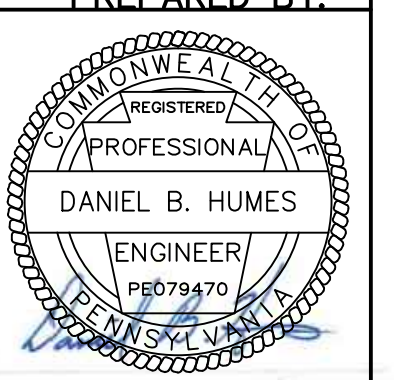
PHASE II TRAIL DEVELOPMENT AND GRADING

1. INSTALL REMAINDER OF SILT FENCE AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. IF NEEDED ADJUST, REPAIR, OR REPLACE SILT FENCE INSTALLED IN PHASE I.
2. ROUGH GRADE AREA OF DISTURBANCE TO PROPOSED SUBGRADE AS IDENTIFIED ON THE GRADING PLAN AND PROPOSED CROSS SECTIONS AND TYPICAL DETAILS. AREAS OF PERMEABLE PAVERS AND BIORETENTION SHALL BE CLEARLY MARKED OUT BEFORE ANY SITE WORK TO AVOID SOIL DISTURBANCE AND COMPACTION DURING CONSTRUCTION.
3. INSTALL PROPOSED RETAINING WALL IN ACCORDANCE TO STRUCTURAL DRAWINGS AND DETAILS.
4. COMPLETE SITE ELEVATION GRADING AND STABILIZE THE SOIL DISTURBED WITH THE LIMITS OF DISTURBANCE. DO NOT FINALIZE BIORETENTION EXCAVATION AND CONSTRUCTION UNTIL THE DRAINAGE AREA IS FULLY STABILIZED.
5. ALL STONE, IF USED, THAT MAKES UP IN THE INFILTRATION SMP MUST REMAIN FREE OF SEDIMENT. IF SEDIMENT ENTERS THE STONE, THE CONTRACTOR MAY BE REQUIRED TO REMOVE THE SEDIMENT AND REPLACE WITH CLEAN WASHED STONE.
6. IF USING AN UNDERDRAIN AND/OR A GRAVEL STORAGE BED, PLACE FILTER FABRIC OR PEA GRAVEL FILTER, THEN PLACE THE ROCK, AND SET THE UNDERDRAIN ACCORDING TO THE PLANS.
7. IF AN UNDERDRAIN AND/OR GRAVEL ARE NOT USED, ROTOTILL 2-3 INCHES OF SAND INTO THE BASE OF THE FACILITY, THEN ROTOTILL 3-4 INCHES OF PLANINT SOIL INTO THE SANDY SUBRAGE TO CREATE A GRADATION ZONE.
8. AFTER ALLOWING FOR SETTLEMENT, COMPLETE FINAL GRADING WITHIN ABOUT 2 INCHES OF THE PROPOSED DESIGN ELEVATIONS, LEAVING SPACE FOR TOP DRESSING OF MULCH OR MULCH/COMPOST BLEND.
9. SEED AND PLANT VEGETATION AS INDICATED ON THE PLANS AND SPECIFICATIONS.
10. PLACE MULCH AND HAND GRADE TO FINAL ELEVATIONS.
11. WATER VEGETATION AT THE END OF EACH DAY FOR TWO WEEKS AFTER PLANTING IS COMPLETED.
12. WATER VEGETATION REGULARLY DURING FIRST YEAR TO ENSURE SUCCESSFUL ESTABLISHMENT.
13. AREAS FOR POROUS PAVEMENT SYSTEMS SHALL BE CLEARLY MARKED BEFORE ANY SITE WORK BEGINS TO AVOID SOIL DISTURBANCE AND COMPACTION DURING CONSTRUCTION.
14. EXCAVATE POROUS PAVEMENT SUBSURFACE AREA TO PROPOSED DEPTH. WHERE EROSION OF SUBGRADE HAS CASED ACCUMULATION OF FINE MATERIALS AND/OR SURFACE PONDING, THIS MATERIAL AND/OR SURFACE PONDING, THIS MATERIAL SHALL BE REMOVED WITH LIGHT EQUIPMENT AND THE UNDERLYING SOILS SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES WITH A YORK RAKE OR EQUIVALENT AND LIGHT TRACTOR.
15. EXISTING SUBGRADE SHALL NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT PRIOR TO PLACEMENT OF GEOTEXTILE AND STONE BED. THE USE OF MACHINERY TO LOAD STONE FROM OUTSIDE OF THE BASIN FOOTPRINT IS RECOMMENDED. IF IT IS ESSENTIAL THAT EQUIPMENT BE USED IN EXCAVATED AREA, ALL EQUIPMENT MUST BE APPROVED BY THE ENGINEER. USE OF EQUIPMENT WITH NARROW TRACKS OR TIRES, RUBBER TIRES WITH LARGE LUGS, OR HIGH PRESSURE TIRES WILL CAUSE EXCESSIVE COMPACTION AND SHALL NOT BE USED. SHOULD THE SUBGRADE BE COMPACTED DURING CONSTRUCTION ADDITIONAL TESTING OF SOIL INFILTRATION RATES AND SYSTEM REDESIGN MAY BE REQUIRED.
16. BRING SUBGRADE OF STONE INFILTRATION BED TO LINE, GRADE, AND ELEVATIONS INDICATED IN THE DRAWINGS, WHILE AVOIDING COMPACTION. THE BOTTOM OF THE INFILTRATION BED SHALL BE AT A LEVEL GRADE.
17. PLACE GEOTEXTILE AND RECHARGE BED AGGREGATE IMMEDIATELY AFTER APPROVAL OF SUBGRADE PREPARATION TO PREVENT ACCUMULATION OF DEBRIS OR SEDIMENT. PREVENT RUNOFF AND SEDIMENT FROM ENTERING THE STORAGE BED DURING THE PLACEMENT OF THE GEOTEXTILE AND AGGREGATE BED.
18. PLACE GEOTEXTILE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. ADJACENT STRIPS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF 16 INCHES. FABRIC SHALL BE SECURED AT LEAST 4 FEET OUTSIDE OF BED. THIS EDGE STRIP SHOULD REMAIN IN PLACE UNTIL ALL BARE SOILS CONTIGUOUS TO BEDS ARE STABILIZED AND VEGETATED. AS THE SITE IS FULLY STABILIZED, EXCESS GEOTEXTILE CAN BE CUT BACK TO THE EDGE OF THE BED.
19. INSTALL AGGREGATE COURSE IN 6-8 INCHES. COMPACT EACH LAYER WITH EQUIPMENT, KEEPING EQUIPMENT MOVEMENT OVER STORAGE BED SUBGRADES TO A MINIMUM. INSTALL AGGREGATE TO GRADES INDICATED ON THE DRAWINGS.
20. INSTALL SITE LIGHTING SERVICE. BACKFILL AND COMPACT DISTURBED AREAS TO PROPOSED ROUGH GRADING ELEVATIONS.
21. COMPACT SUBGRADE AND INSTALL PAVEMENT SUBBASE AND BITUMINOUS BASE COURSE FOR THE PROPOSED TRAIL.
22. ALL DISTURBED AREAS SHALL BE TEMPORARY STABILIZED WITH MULCH OR TEMPORARY SEEDING. EROSION CONTROL MAT MUST BE INSTALLED ON ALL SLOPES 3:1 OR GREATER.
23. INSTALL ALL LANDSCAPING ITEMS AS SHOWN ON PLANS AND DETAILS.
24. INSTALL FINAL BITUMINOUS SURFACE COURSE AND PERMEABLE PAVERS UPON COMPLETION OF LANDSCAPING ACTIVITIES.
25. INSTALL SITE FURNISHINGS SUCH AS BENCHES, SIGNS, TRASH RECEPTACLES, FENCING, AND RAILINGS.
26. REMOVE CONSTRUCTION ENTRANCES AND PERFORM FINISHED SITE IMPROVEMENTS TO THESE AREAS (I.E., GRADING WITH LANDSCAPING AND/OR PAVING).
27. REMOVE ALL EROSION AND SEDIMENTATION CONTROLS ONCE SITE IS PERMANENTLY STABILIZED AND RESTORE DISTURBED AREAS TO THE ORIGINAL CONDITION.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		19 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

**SCHUYLKILL RIVER TRAIL EXTENSION
EROSION AND SEDIMENT CONTROL NOTES-2**

PREPARED BY:



CONFORMED SET

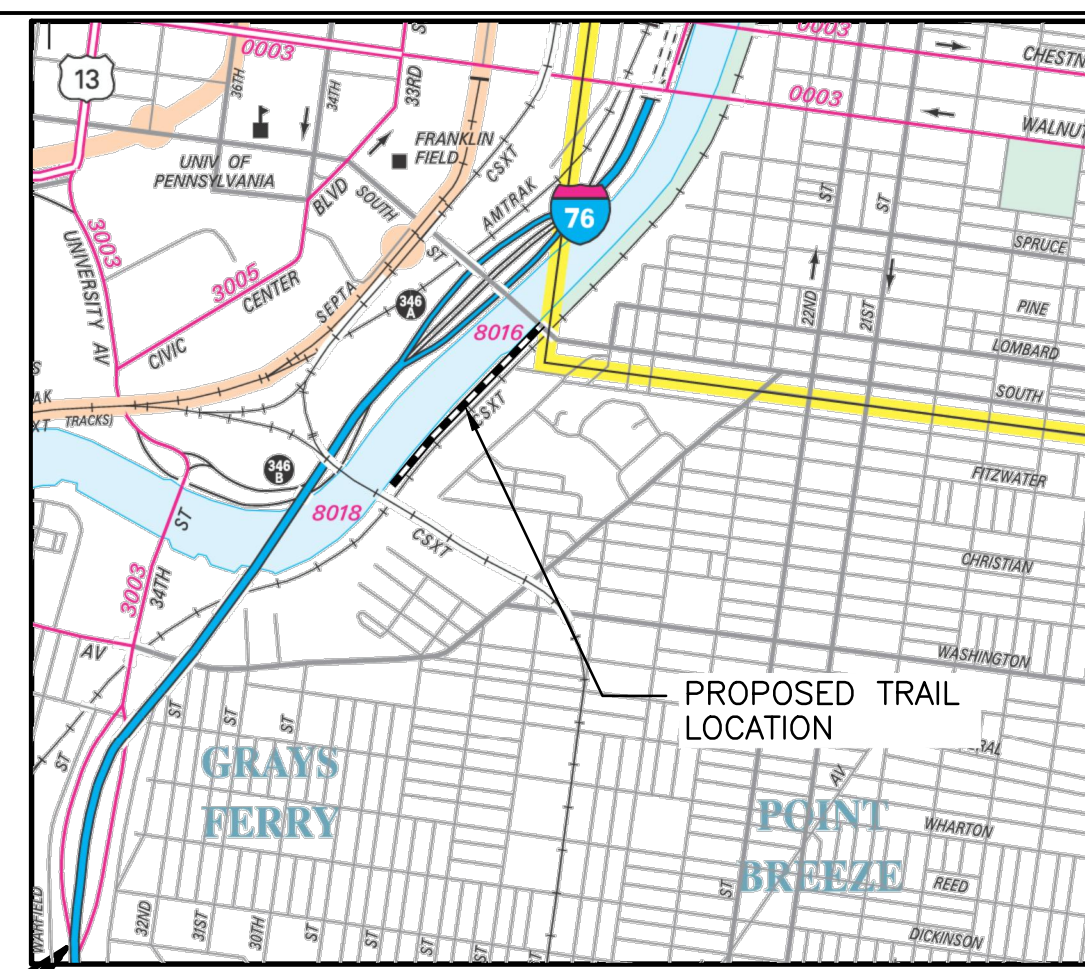
EXISTING LEGEND

- 100-YEAR FEMA FLOODPLAIN
- FEMA FLOODWAY
- MHWL MEAN HIGH WATER LINE
- PROPERTY/DEED LINE
- LEGAL RIGHT-OF-WAY
- EXISTING CHAIN LINK FENCE
- EXISTING FIBER OPTIC CABLE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING STORM LINE
- 6' EXISTING MINOR CONTOUR
- 10' EXISTING MAJOR CONTOUR
- ⊕ EXISTING LIGHT POST
- ⊕ EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- ⊙ EXISTING DECIDUOUS TREE

LAND COVER LEGEND

- [Pattern] PROPOSED NATIVE WILDFLOWER & GRASS MIX
- [Pattern] PROPOSED WETLAND MEADOW MIX
- [Pattern] PROPOSED ORNAMENTAL GRASS
- [Pattern] PROPOSED ORNAMENTAL GRASS
- [Pattern] PROPOSED LAWN
- [Pattern] PROPOSED SEASONAL FLOODED GRASS MIX
- [Pattern] PROPOSED PARTIALLY SHADED WOODLAND MIX

Soil Series	Urban Land
Map Symbol	U ₁ , U ₂ , U ₃ , U ₄ , U ₅ , U ₆ , U ₇ , U ₈ , U ₉
Depth to Seasonal High Water Table	Properties are too variable to estimate with any degree of certainty
Depth to Bedrock (feet)	Properties are too variable to estimate with any degree of certainty
Use limitations and resolutions	Surface runoff may be rapid and the hazard of further erosion can be high. Available moisture capacity may be low or very low, and natural fertility could be low. Percolation through the profile may be rapid. The potential losses of soil material from the surface layer, and the low available moisture capacity, limit the use of the soils of this complex. The use of Urban land as a site for built-up areas precludes use for most other purposes.
Recommendations	Limit exposure duration. Cover with Type 2 A Subbase and use inlet protection or filter fabric fencing.
Capability unit	Properties are too variable to estimate with any degree of certainty

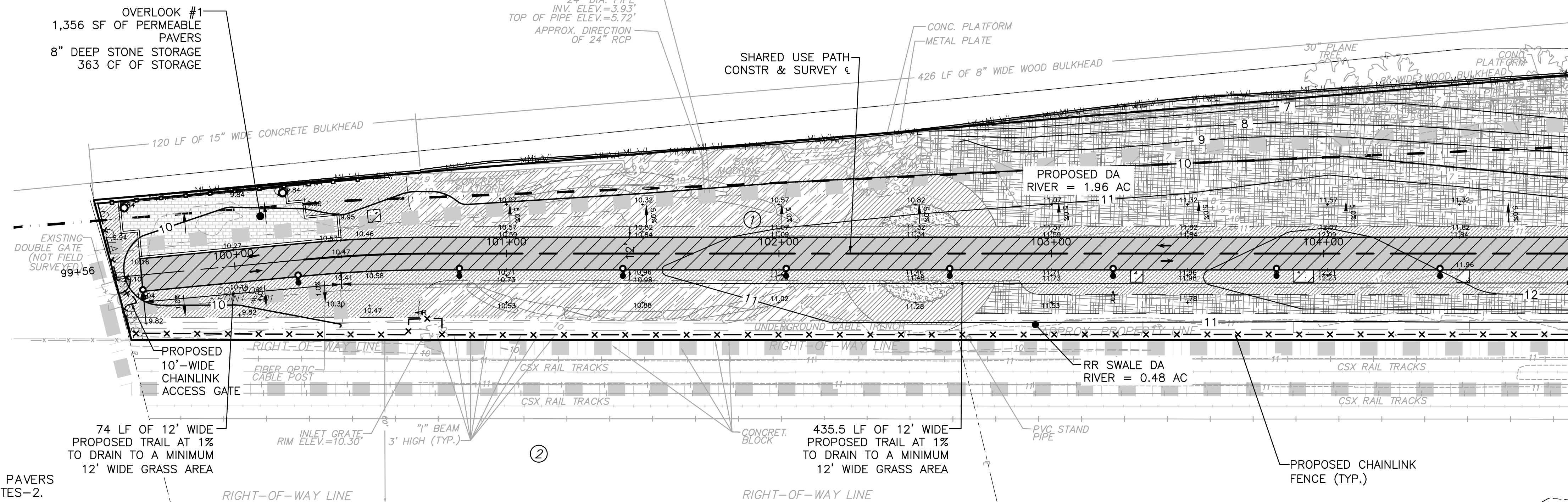


DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		20 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS	DATE	BY	
A	CONFORMED SET	11/2/2015	JAB	

**SCHUYLKILL RIVER TRAIL EXTENSION
PCSWM PLAN 1**

PROPOSED LEGEND

- PROPOSED STEEL PIPE RAILING
- PROPOSED CHAINLINK FENCE
- 14' PROPOSED MINOR CONTOUR
- 15' PROPOSED MAJOR CONTOUR
- 11.45 PROPOSED SPOT ELEVATION
- 106+00 PROPOSED STATIONING
- PROPOSED SHARED USE PATH CENTER LINE
- PROPOSED STORMWATER PIPE
- [Pattern] PROPOSED PERMEABLE PAVER
- [Pattern] PROPOSED TRAIL
- [Pattern] PROPOSED CONCRETE
- PROPOSED TREE LOCATIONS
- PROPOSED LIGHT POST
- PROPOSED BENCHES
- PROPOSED TRASH RECEPTACLE
- PROPOSED INTERPRETIVE SIGN
- PROPOSED BIKE RACKS
- PROPOSED FLOW PATH
- [Pattern] DISCONNECTED IMPERVIOUS AREA
- [Pattern] PROPOSED DRAINAGE AREA



PCSM NOTES:

- FOR DETAILED CONSTRUCTION GUIDELINES FOR POROUS PAVERS SEE SHEET 19 - EROSION AND SEDIMENT CONTROL NOTES-2.
- FOR ALL NPDES NOTES SEE SHEET 18 - EROSION AND SEDIMENT CONTROL NOTES-1
- CONTRACTOR TO REVIEW 'CRITICAL STAGE IMPLEMENTATIONS' ON SHEET 19 - EROSION AND SEDIMENT CONTROL NOTES-2 PRIOR TO CONSTRUCTION.
- PROJECT CONSIDERED TO BE A GREEN REVIEW PROJECT. 96.3% (20,738 SF) OF THE 21,541 SF DIRECTLY CONNECTED IMPERVIOUS AREA HAS BEEN DISCONNECTED.
- FOR TREE CREDIT SPECIES SEE SHEET 6 OF LANDSCAPING PLANS. PER PWD GUIDELINES, ALL PROPOSED TREES ARE AT LEAST 2-INCHES IN CALIPER.

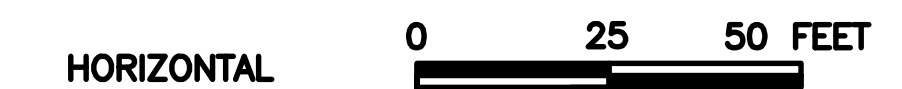
LIST OF PROPERTY OWNERS:

- NOW OR FORMERLY PHILADELPHIA ELECTRIC COMPANY
830 SCHUYLKILL AVENUE (BRT ACCOUNT #77260700)
- SCHUYLKILL RIVER EAST SIDE
RAILROAD RIGHT-OF-WAY (60' WIDE)
- NOW OR FORMERLY REDEVELOPMENT AUTHORITY OF PHILADELPHIA
780 SCHUYLKILL AVENUE (BRT ACCOUNT #782463000)
- NOW OR FORMELY THE CHILDREN'S HOSPITAL OF PHILADELPHIA
700 SCHUYLKILL AVENUE (BRT ACCOUNT #782462700)
- BAINBRIDGE STREET - VACATED 50' WIDE RIGHT-OF-WAY
RESERVED FOR DRAINAGE & PUBLIC UTILITY PURPOSES
- NOW OR FORMELY CSX TRANSPORTATION
624R SCHUYLKILL AVENUE (BRT ACCOUNT #302171100)

PERMEABLE PAVERS O&M GUIDELINES

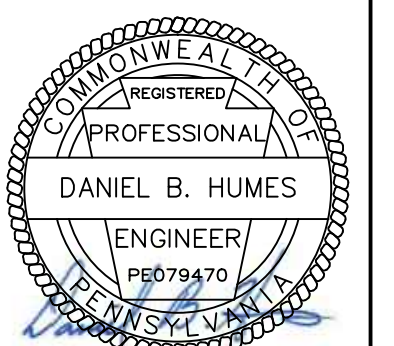
ACTIVITY	SCHEDULE
*MOW GRASS IN PAVER OR GRID SYSTEMS THAT HAVE BEEN PLANTED WITH GRASS	AS NEEDED
*SNOW PLOWING SHALL BE PERFORMED WITH THE BLADE RAISED ONE (1) INCH ABOVE NORMAL PLOW HEIGHT.	WINTER MAINTENANCE
*SALT IS ACCEPTABLE FOR USE AS A DEICER ON THE POROUS PAVEMENT, THOUGH NON-TOXIC, ORGANIC DEICERS, APPLIED EITHER AS BLENDED, MAGNESIUM CHLORIDE-BASED LIQUID PRODUCTS OR AS PRETREATED SALT, ARE PREFERABLE.	WINTER MAINTENANCE
*ABRASIVES SUCH AS SAND OR CINDERS SHALL NOT BE APPLIED ON OR ADJACENT TO THE POROUS PAVEMENT.	WINTER MAINTENANCE
*VACUUM POROUS PAVERS SURFACE WITH COMMERCIAL CLEANING UNIT (PAVEMENT WASHING SYSTEMS AND COMPRESSED AIR UNITS ARE NOT RECOMMENDED).	BIANNUALLY
*CLEAN OUT INLET STRUCTURES WITHIN OR DRAINING TO THE SUBSURFACE BEDDING BENEATH POROUS SURFACES.	BIANNUALLY
*MAINTAIN RECORDS OF ALL INSPECTIONS AND MAINTENANCE ACTIVITY.	ON GOING
*REPAIR AND/OR REPLACE ANY DAMAGED PERMEABLE PAVERS.	AS NEEDED

FOR PROFILE, SEE SHEET 25



PA ONE CALL SERIAL NUMBERS:
#20130491115, #20130491116, #20130491117

PREPARED BY:



CONFORMED SET

EXISTING LEGEND

- 100-YEAR FEMA FLOODPLAIN
- - - FEMA FLOODWAY
- MHWL/AHT— MEAN HIGH WATER LINE
- P— PROPERTY/DEED LINE
- L— LEGAL RIGHT-OF-WAY
- - - X - - - EXISTING CHAIN LINK FENCE
- FOC — EXISTING FIBER OPTIC CABLE
- E — EXISTING OVERHEAD ELECTRIC LINE
- STO — EXISTING STORM LINE
- 6 --- EXISTING MINOR CONTOUR
- 10 --- EXISTING MAJOR CONTOUR
- ⊕ EXISTING LIGHT POST
- ⊙ EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- ⊗ EXISTING DECIDUOUS TREE

PROPOSED LEGEND

- PROPOSED STEEL PIPE RAILING
- - - X - - - PROPOSED CHAINLINK FENCE
- 14 — PROPOSED MINOR CONTOUR
- 15 — PROPOSED MAJOR CONTOUR
- 11+45 PROPOSED SPOT ELEVATION
- 106+00 PROPOSED STATIONING
- - - PROPOSED SHARED USE PATH CENTER LINE
- PROPOSED STORMWATER PIPE
- ▨ PROPOSED PERMEABLE PAVER
- ▩ PROPOSED TRAIL
- ▧ PROPOSED CONCRETE
- ⊙ PROPOSED TREE LOCATIONS
- PROPOSED LIGHT POST
- PROPOSED BENCHES
- PROPOSED TRASH RECEPTACLE
- PROPOSED INTERPRETIVE SIGN
- PROPOSED BIKE RACKS
- PROPOSED FLOW PATH
- ▨ DISCONNECTED IMPERVIOUS AREA
- ▧ PROPOSED DRAINAGE AREA

PERMEABLE PAVERS O&M GUIDELINES

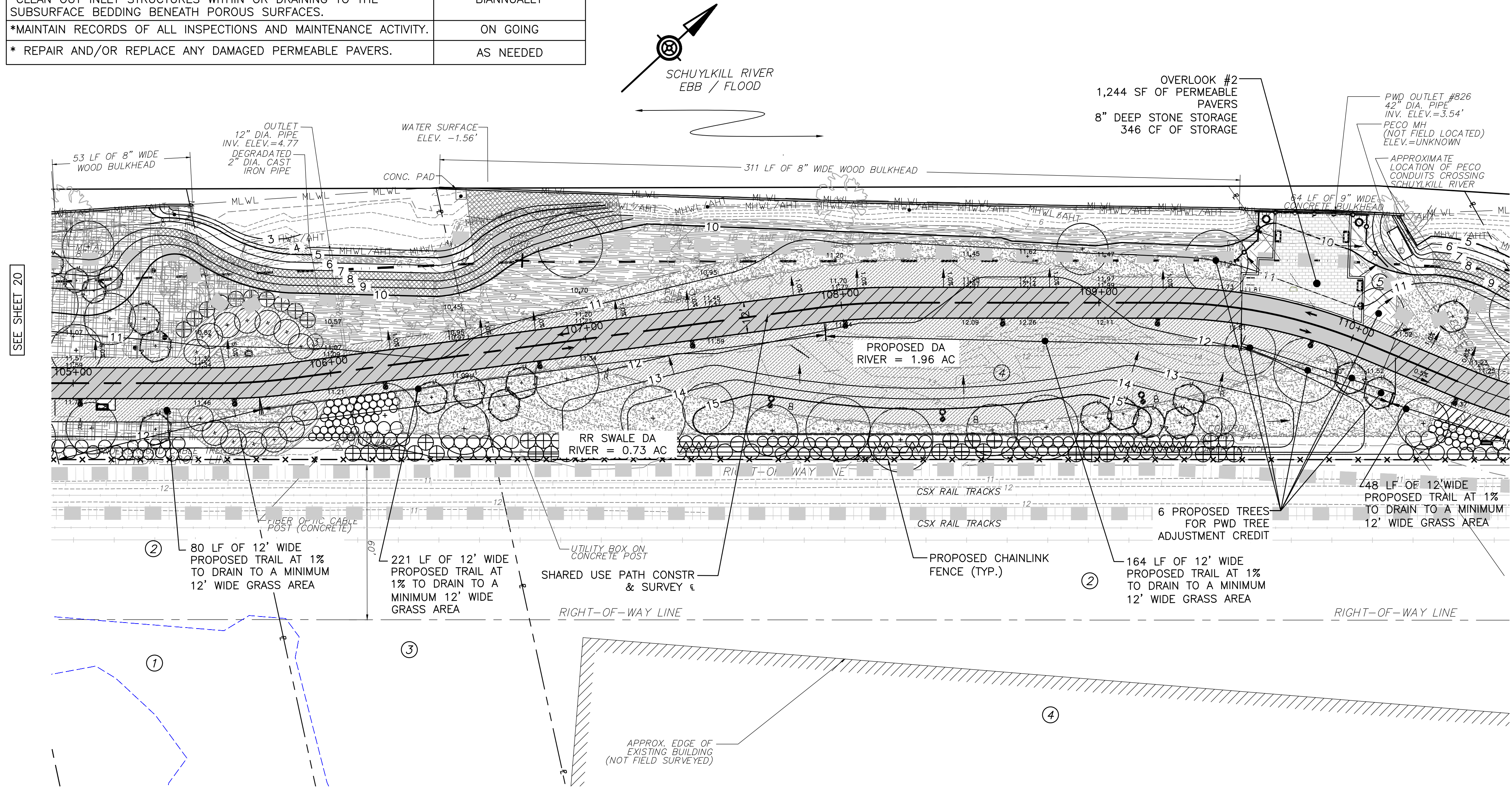
ACTIVITY	SCHEDULE
*MOW GRASS IN PAVER OR GRID SYSTEMS THAT HAVE BEEN PLANTED WITH GRASS	AS NEEDED
*SNOW PLOWING SHALL BE PERFORMED WITH THE BLADE RAISED ONE (1) INCH ABOVE NORMAL PLOW HEIGHT.	WINTER MAINTENANCE
*SALT IS ACCEPTABLE FOR USE AS A DEICER ON THE POROUS PAVEMENT, THOUGH NON-TOXIC ,ORGANIC DEICERS, APPLIED EITHER AS BLENDED, MAGNESIUM CHLORIDE-BASED LIQUID PRODUCTS OR AS PRETREATED SALT, ARE PREFERABLE.	WINTER MAINTENANCE
*ABRASIVES SUCH AS SAND OR CINDERS SHALL NOT BE APPLIED ON OR ADJACENT TO THE POROUS PAVEMENT.	WINTER MAINTENANCE
*VACUUM POROUS PAVERS SURFACE WITH COMMERCIAL CLEANING UNIT (PAVEMENT WASHING SYSTEMS AND COMPRESSED AIR UNITS ARE NOT RECOMMENDED).	BIANNUALLY
*CLEAN OUT INLET STRUCTURES WITHIN OR DRAINING TO THE SUBSURFACE BEDDING BENEATH POROUS SURFACES.	BIANNUALLY
*MAINTAIN RECORDS OF ALL INSPECTIONS AND MAINTENANCE ACTIVITY.	ON GOING
* REPAIR AND/OR REPLACE ANY DAMAGED PERMEABLE PAVERS.	AS NEEDED

PCSM NOTES:

- FOR DETAILED CONSTRUCTION GUIDELINES FOR POROUS PAVERS SEE SHEET 19 – EROSION AND SEDIMENT CONTROL NOTES-2.
- FOR ALL NPDES NOTES SEE SHEET 18 – EROSION AND SEDIMENT CONTROL NOTES-1
- CONTRACTOR TO REVIEW 'CRITICAL STAGE IMPLEMENTATIONS' ON SHEET19 – EROSION AND SEDIMENT CONTROL NOTES-2 PRIOR TO CONSTRUCTION.
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	PHILADELPHIA	-		21 OF 29	
CITY OF PHILADELPHIA					
REVISION NUMBER	REVISIONS			DATE	BY
A	CONFORMED SET			11/2/2015	JAB

**SCHUYLKILL RIVER TRAIL EXTENSION
PCSWM PLAN 2**



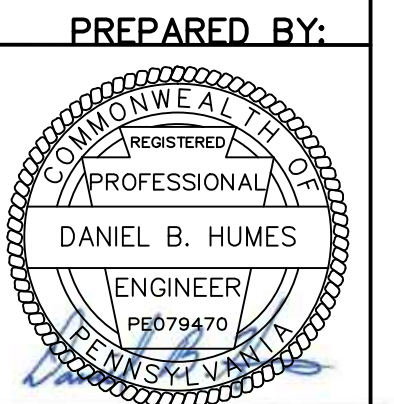
LIST OF PROPERTY OWNERS:

- NOW OR FORMERLY PHILADELPHIA ELECTRIC COMPANY
830 SCHUYLKILL AVENUE (BRT ACCOUNT #77260700)
- SCHUYLKILL RIVER EAST SIDE
RAILROAD RIGHT-OF-WAY (60' WIDE)
- NOW OR FORMERLY REDEVELOPMENT AUTHORITY OF PHILADELPHIA
780 SCHUYLKILL AVENUE (BRT ACCOUNT #782463000)
- NOW OR FORMELY THE CHILDREN'S HOSPITAL OF PHILADELPHIA
700 SCHUYLKILL AVENUE (BRT ACCOUNT #782462700)
- BAINBRIDGE STREET – VACATED 50' WIDE RIGHT-OF-WAY
RESERVED FOR DRAINAGE & PUBLIC UTILITY PURPOSES
- NOW OR FORMELY CSX TRANSPORTATION
624R SCHUYLKILL AVENUE (BRT ACCOUNT #302171100)

LAND COVER LEGEND

- ▨ PROPOSED NATIVE WILDFLOWER & GRASS MIX
- ▩ PROPOSED WETLAND MEADOW MIX
- ▧ PROPOSED ORNAMENTAL GRASS
- ▦ PROPOSED ORNAMENTAL GRASS
- ▥ PROPOSED LAWN
- ▤ PROPOSED SEASONAL FLOODED GRASS MIX
- ▣ PROPOSED PARTIALLY SHADED WOODLAND MIX

FOR PROFILE, SEE SHEET 26



CONFORMED SET

LAND COVER LEGEND

- PROPOSED NATIVE WILDFLOWER & GRASS MIX
- PROPOSED WETLAND MEADOW MIX
- PROPOSED ORNAMENTAL GRASS
- PROPOSED ORNAMENTAL GRASS
- PROPOSED LAWN
- PROPOSED SEASONAL FLOODED GRASS MIX
- PROPOSED PARTIALLY SHADED WOODLAND MIX

PCSM NOTES:

1. FOR DETAILED CONSTRUCTION GUIDELINES FOR POROUS PAVERS SEE SHEET 19 – EROSION AND SEDIMENT CONTROL NOTES-2.
2. FOR ALL NPDES NOTES SEE SHEET 18 – EROSION AND SEDIMENT CONTROL NOTES-1
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PERMEABLE PAVERS O&M GUIDELINES

ACTIVITY	SCHEDULE
*MOW GRASS IN PAVER OR GRID SYSTEMS THAT HAVE BEEN PLANTED WITH GRASS	AS NEEDED
*SNOW PLOWING SHALL BE PERFORMED WITH THE BLADE RAISED ONE (1) INCH ABOVE NORMAL PLOW HEIGHT.	WINTER MAINTENANCE
*SALT IS ACCEPTABLE FOR USE AS A DEICER ON THE POROUS PAVEMENT, THOUGH NON-TOXIC ,ORGANIC DEICERS, APPLIED EITHER AS BLENDED, MAGNESIUM CHLORIDE-BASED LIQUID PRODUCTS OR AS PRETREATED SALT, ARE PREFERABLE.	WINTER MAINTENANCE
*ABRASIVES SUCH AS SAND OR CINDERS SHALL NOT BE APPLIED ON OR ADJACENT TO THE POROUS PAVEMENT.	WINTER MAINTENANCE
*VACUUM POROUS PAVERS SURFACE WITH COMMERCIAL CLEANING UNIT (PAVEMENT WASHING SYSTEMS AND COMPRESSED AIR UNITS ARE NOT RECOMMENDED).	BIANNUALLY
*CLEAN OUT INLET STRUCTURES WITHIN OR DRAINING TO THE SUBSURFACE BEDDING BENEATH POROUS SURFACES.	BIANNUALLY
*MAINTAIN RECORDS OF ALL INSPECTIONS AND MAINTENANCE ACTIVITY.	ON GOING
* REPAIR AND/OR REPLACE ANY DAMAGED PERMEABLE PAVERS.	AS NEEDED

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	PHILADELPHIA	-		22 OF 29	
CITY OF PHILADELPHIA					
REVISION NUMBER	REVISIONS			DATE	BY
A	CONFORMED SET			11/2/2015	JAB

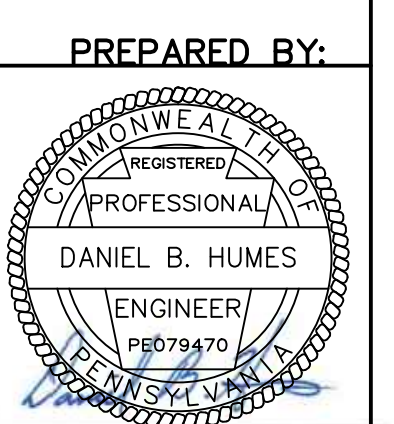
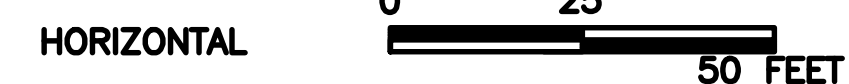
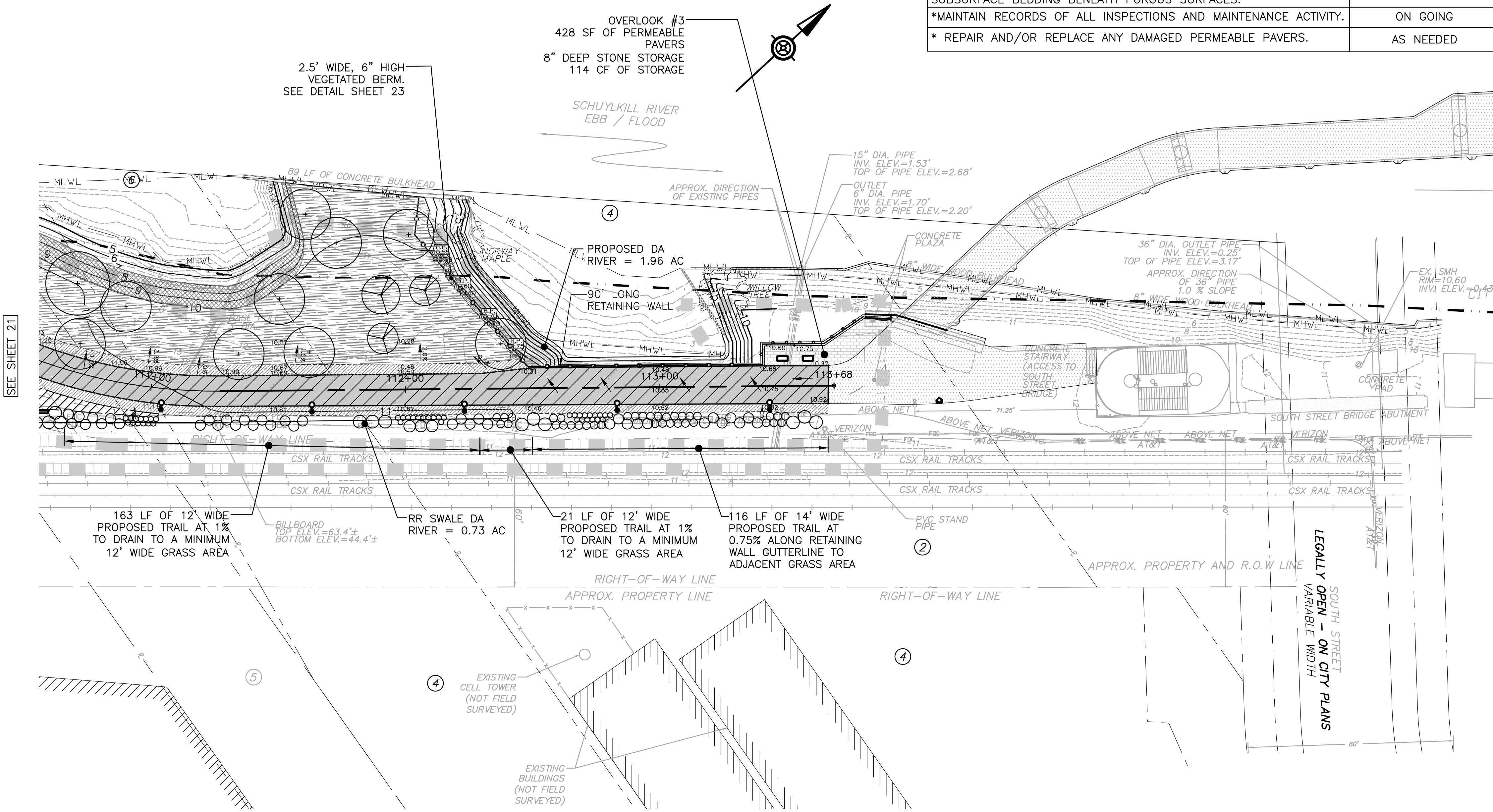
SCHUYLKILL RIVER TRAIL EXTENSION PCSWM PLAN 3

EXISTING LEGEND

- 100-YEAR FEMA FLOODPLAIN
- FEMA FLOODWAY
- MHWL MEAN HIGH WATER LINE
- PROPERTY/DEED LINE
- LEGAL RIGHT-OF-WAY
- EXISTING TREE LINE
- EXISTING FIBER OPTIC CABLE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING STORM LINE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING LIGHT POST
- EXISTING ELECTRIC MANHOLE
- EXISTING BOAT MOORING
- EXISTING ROAD SIGN
- EXISTING POST OR POLE
- EXISTING DECIDUOUS TREE

PROPOSED LEGEND

- PROPOSED STEEL PIPE RAILING
- PROPOSED CHAINLINK FENCE
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED STATIONING
- PROPOSED SHARED USE PATH CENTER LINE
- PROPOSED STORMWATER PIPE
- PROPOSED PERMEABLE PAVER
- PROPOSED TRAIL
- PROPOSED CONCRETE
- DISCONNECTED IMPERVIOUS AREA
- PROPOSED TREE LOCATIONS
- PROPOSED LIGHT POST
- PROPOSED BENCHES
- PROPOSED TRASH RECEPTACLE
- PROPOSED DRAINAGE AREA
- PROPOSED DIVERSION BERM



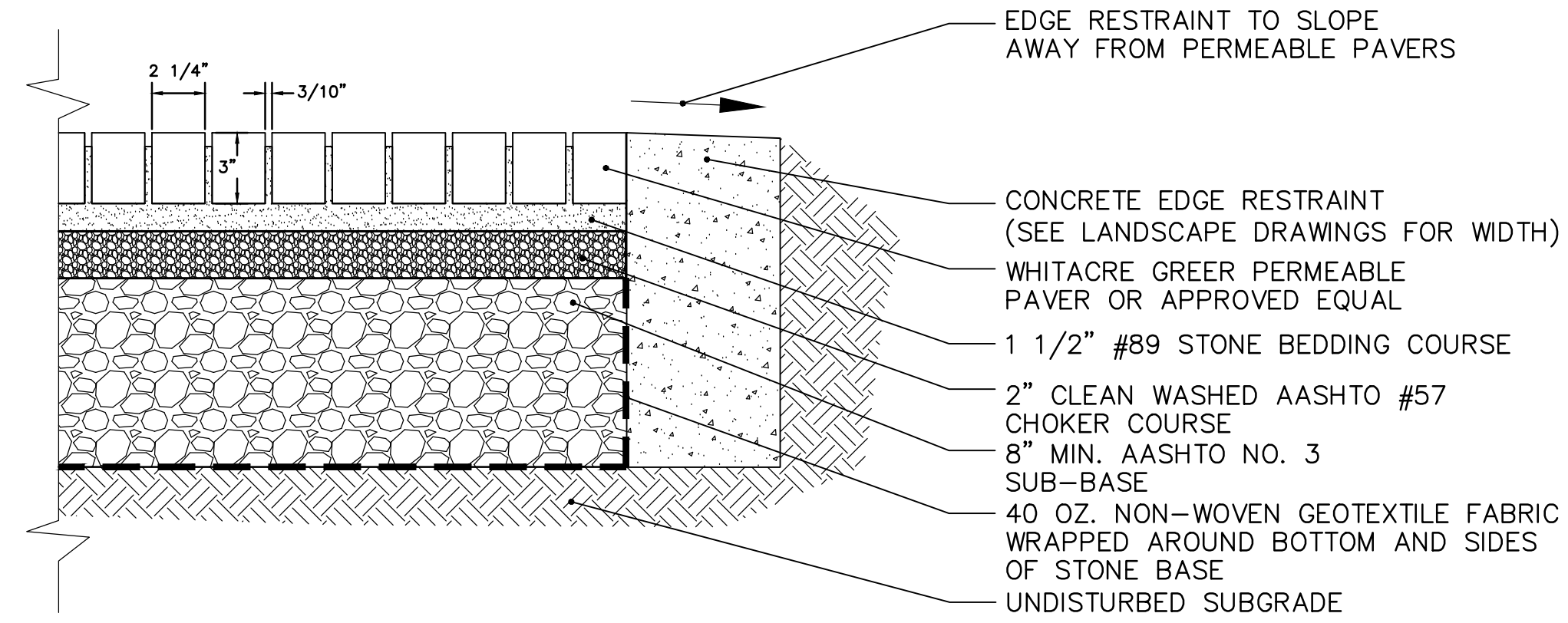
PA ONE CALL SERIAL NUMBERS:
#20130491115, #20130491116, #20130491117

CONFORMED SET

FOR PROFILE, SEE SHEET 27

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		23 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS			DATE
A	CONFORMED SET			11/2/2015
				JAB

PCSWM NOTES & DETAILS



NOTES:

1. FOR BMP MAINTENANCE GUIDELINES SEE SHEET 22 – PCSWM PLAN 3.
2. SUBSURFACE STORAGE BEDS MUST MEET THE FOLLOWING:
 - A. MAXIMUM WASH LOSS OF 0.5%
 - B. MINIMUM DURABILITY INDEX OF 35
 - C. MAXIMUM ABRASION OF 10% FOR 100 REVOLUTIONS AND MAXIMUM OF 50% FOR 500 REVOLUTIONS

CRITICAL PCSM SEQUENCE FOR INSTALLATION AND INSPECTION POINTS

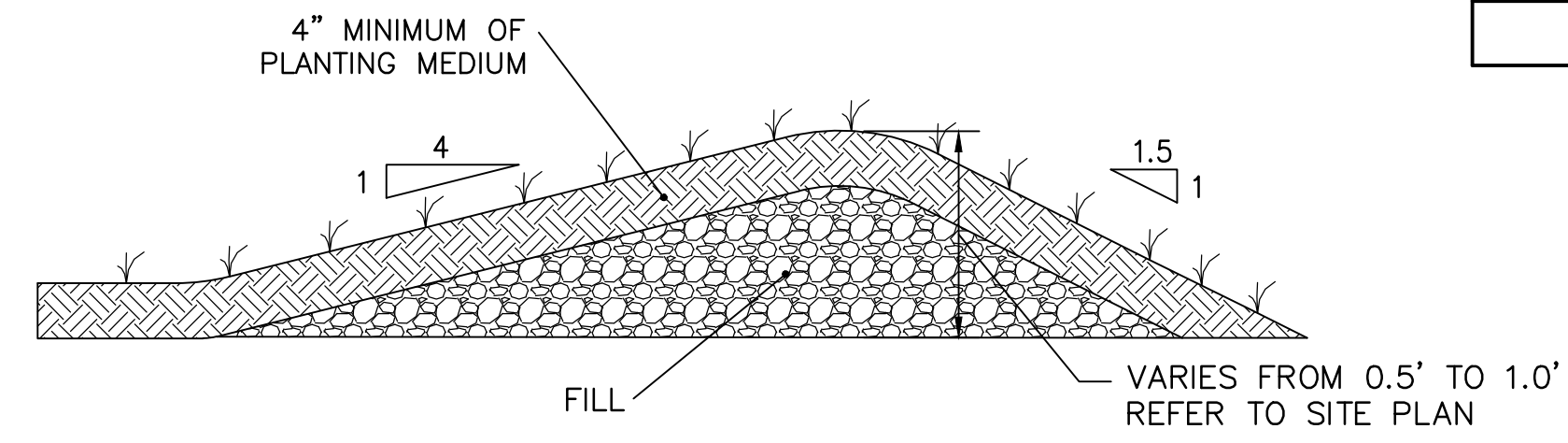
PERMEABLE PAVER EXCAVATION

FOR ALL PERMEABLE PAVER OUTLOOK AREAS, ONCE EXCAVATION HAS BEEN COMPLETED BY THE CONTRACTOR, PERMEABLE PAVER BASE DEPTH WILL BE INSPECTED TO ENSURE THAT SUB-BASE ELEVATION ARE AT THE CORRECT DEPTHS.

PERMEABLE PAVER INSTALLATION

WHILE PERMEABLE PAVER OUTLOOK AREAS ARE BEING CONSTRUCTED, PERIODIC INSPECTIONS WILL BE CONDUCTED TO ENSURE THAT THE APPROPRIATE DEPTHS OF THE AASHTO #57 STONE CHOKER COARSE AND THE AASHTO NO. 3 SUB-BASE ARE INSTALLED TO THE CORRECT DEPTH PER PCSWM DETAILS.

TYPICAL PERMEABLE PAVER CROSS-SECTION
NOT TO SCALE

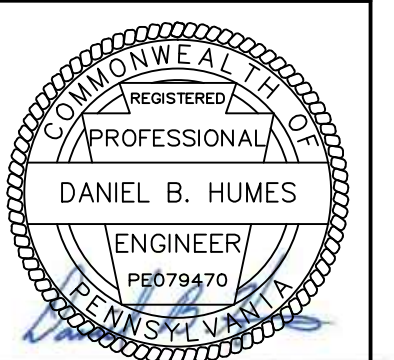


NOTES:

1. BERM SHALL BE VEGETATED WITH TURF SEED MIX OR MEADOW PER SITE PLAN.

VEGETATED BERM DETAIL
NOT TO SCALE

PREPARED BY:



CONFORMED SET

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		24 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS		DATE	BY
A	CONFORMED SET		11/2/2015	JAB

SCHUYLKILL RIVER TRAIL EXTENSION
PROPOSED DRAINAGE AREA EXHIBIT

EXISTING LEGEND

- 100-YEAR FEMA FLOODPLAIN
- FEMA FLOODWAY
- MHWL MEAN HIGH WATER LINE
- PROPERTY/DEED LINE
- LEGAL RIGHT-OF-WAY
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- X-----X----- EXISTING CHAIN LINK FENCE
- EXISTING FIBER OPTIC CABLE
- E----- EXISTING OVERHEAD ELECTRIC LINE
- ST10----- EXISTING STORM LINE
- 6----- EXISTING MINOR CONTOUR
- 10----- EXISTING MAJOR CONTOUR
- o----- EXISTING LIGHT POST
- o----- EXISTING ELECTRIC MANHOLE
- o----- EXISTING BOAT MOORING
- o----- EXISTING ROAD SIGN
- o----- EXISTING POST OR POLE
- o----- EXISTING DECIDUOUS TREE
- EXISTING CONCRETE

PROPOSED LEGEND

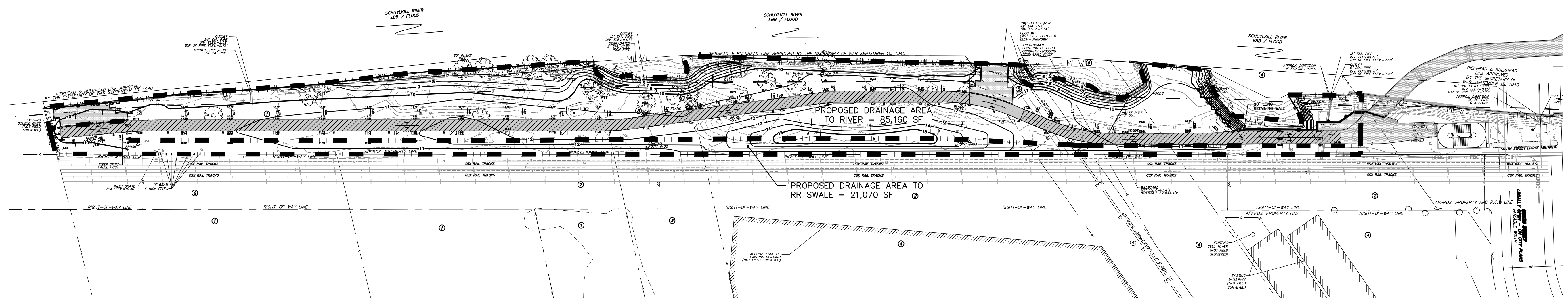
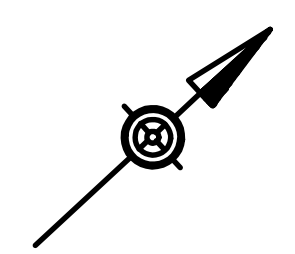
- 14----- PROPOSED MINOR CONTOUR
- 15----- PROPOSED MAJOR CONTOUR
- 1:1.45 PROPOSED SPOT ELEVATION
- 106+00 PROPOSED STATIONING
- PROPOSED SHARED USE PATH CENTER LINE
- PROPOSED PERMEABLE PAVER
- PROPOSED TRAIL
- PROPOSED CONCRETE
- PROPOSED FLOW PATH
- DISCONNECTED IMPERVIOUS AREA
- PROPOSED DRAINAGE AREA BOUNDARY

EXISTING FEATURES NOTES:

- PWD COMBINED STORMWATER OUTLET #826 LOCATION WAS OBTAINED FROM PWD RECORD PLAN #315555 AND WAS NOT FIELD LOCATED.

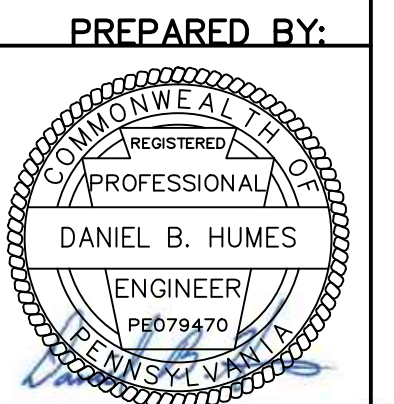
DRAINAGE AREA NOTES:

- CURVE NUMBER VALUES OBTAINED FROM TABLE 5.4 OF THE PHILADELPHIA WATER DEPARTMENT STORMWATER MANAGEMENT GUIDANCE MANUAL VERSION 2.1 REVISED FEBRUARY 10, 2014.
- PER NRCS'S WEB SOIL SURVEY, THE ENTIRE PROJECT SITE IS URBAN (U_b) SOIL.
- CURVE NUMBERS USED IN THE STORMWATER CALCULATIONS ARE BASED ON THE URBAN (U_b) HYDROLOGIC SOIL GROUP.
- PROPOSED LAWN IS ASSUMED TO BE IN GOOD HYDROLOGIC CONDITION (CN=61).



DRAINAGE AREA	IMPERVIOUS COVER (SF)	IMPERVIOUS COVER (AC)	IMPERVIOUS (CN)	GRASS COVER (SF)	GRASS COVER (AC)	LAWN (CN)	PERMEABLE PAVERS (SF)	PERMEABLE PAVERS (AC)	PERMEABLE PAVERS (CN)	TOTAL AREA (SF)	TOTAL AREA (AC)	COMBINED (CN)
PROPOSED DRAINAGE AREA TO RIVER	17,575	0.40	98	75,003	1.72	61	3,080	0.09	70	95,658	1.95	77.3
PROPOSED DRAINAGE AREA TO RAILWAY SWALE	886	0.02	98	20,184	0.46	61	0	0.00	70	21,070	0.73	63.1

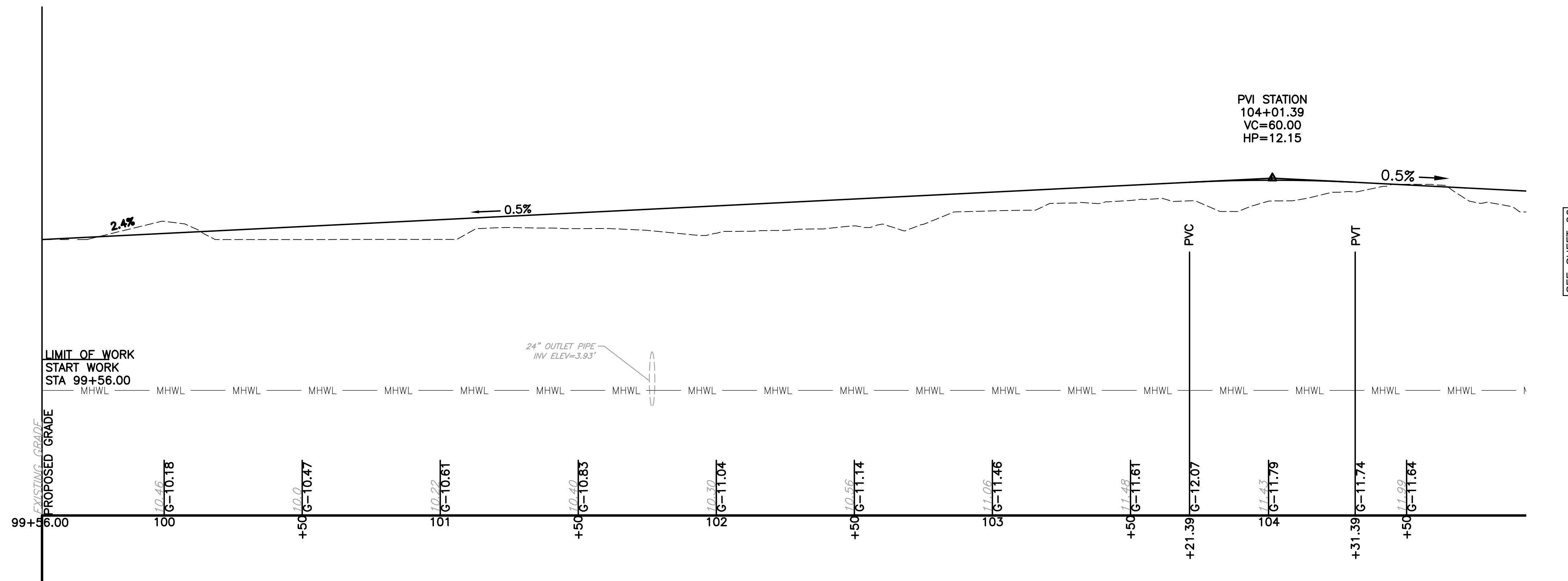
HORIZONTAL 0 60 120 FEET



CONFORMED SET

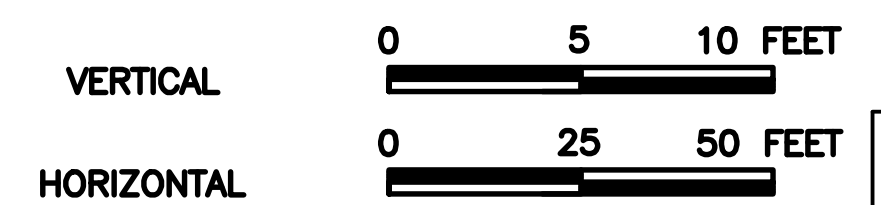
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		25 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS			DATE
A	CONFORMED SET			11/2/2015
				JAB

SCHUYLKILL RIVER TRAIL EXTENSION
SHARED USE PATH VERTICAL PROFILE - 1

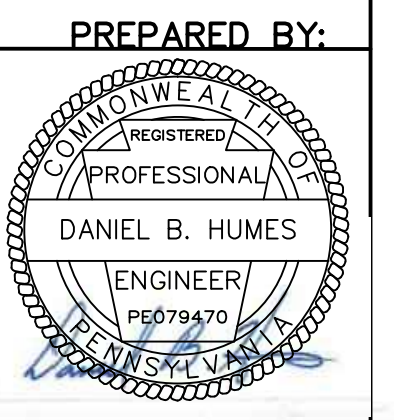


SHARED USE PATH PROFILE

SEE SHEET 26



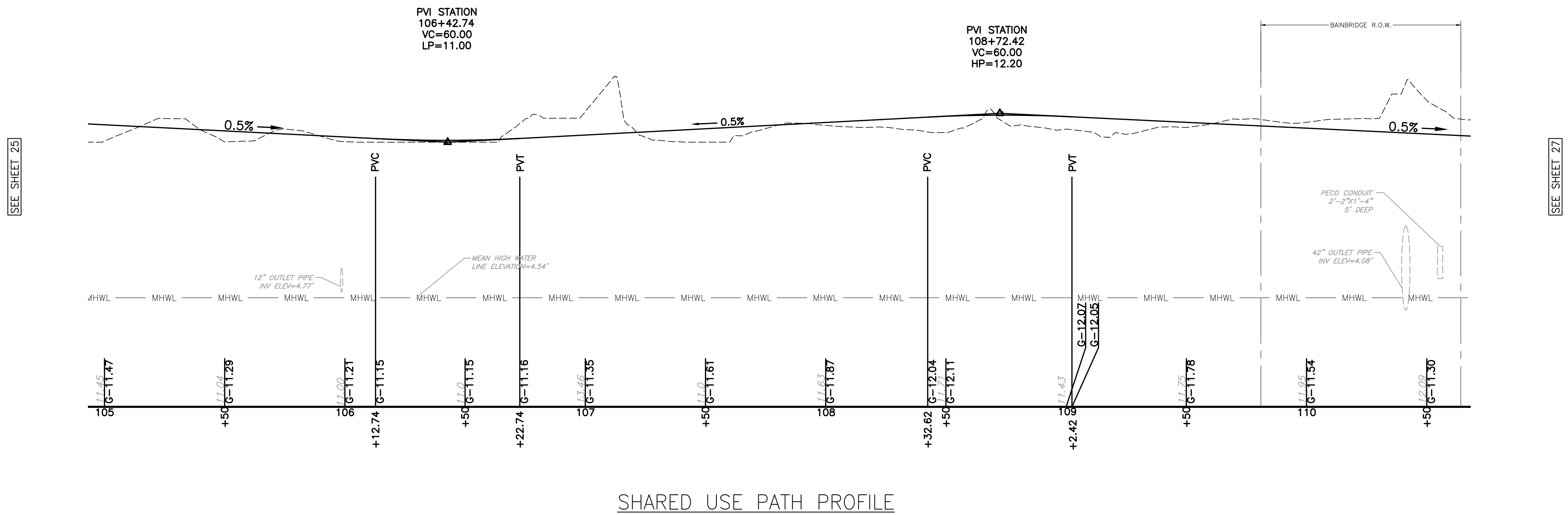
FOR PLAN, SEE SHEET 7



CONFORMED SET

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		26 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS			DATE
A	CONFORMED SET			11/2/2015
				JAB

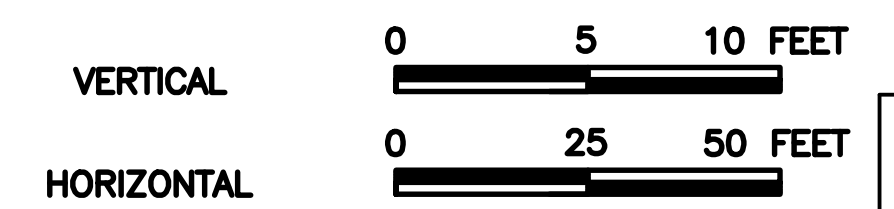
SCHUYLKILL RIVER TRAIL EXTENSION
SHARED USE PATH VERTICAL PROFILE - 2



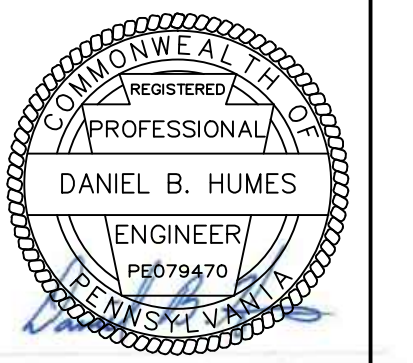
SHARED USE PATH PROFILE



FOR PLAN, SEE SHEET 8



PREPARED BY:

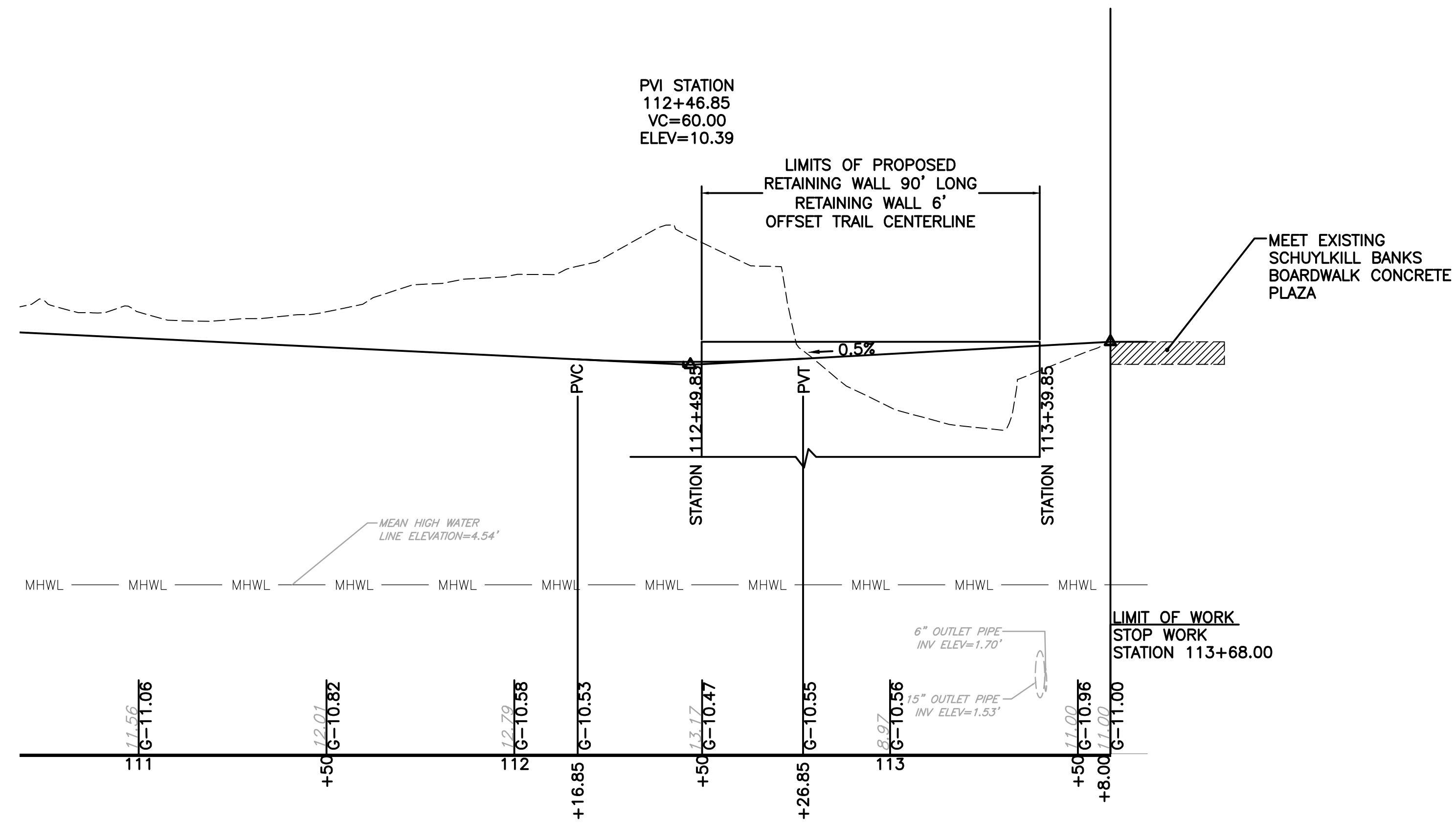


CONFORMED SET

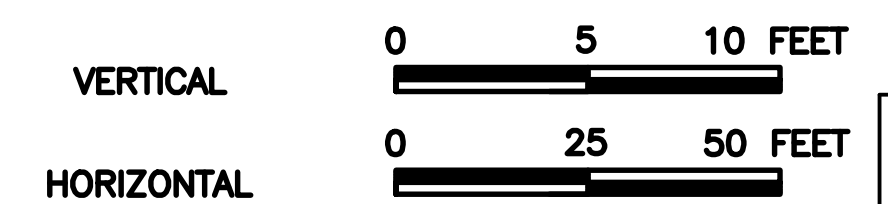
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PHILADELPHIA	-		27 OF 29
CITY OF PHILADELPHIA				
REVISION NUMBER	REVISIONS		DATE	BY
A	CONFORMED SET		11/2/2015	JAB

SCHUYLKILL RIVER TRAIL EXTENSION
SHARED USE PATH VERTICAL PROFILE - 3

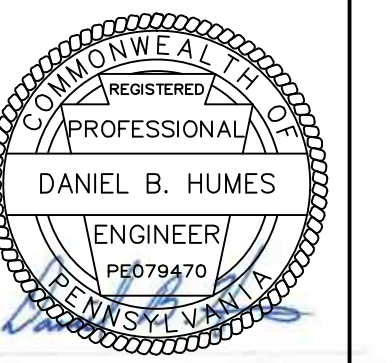
SEE SHEET 26



SHARED USE PATH PROFILE



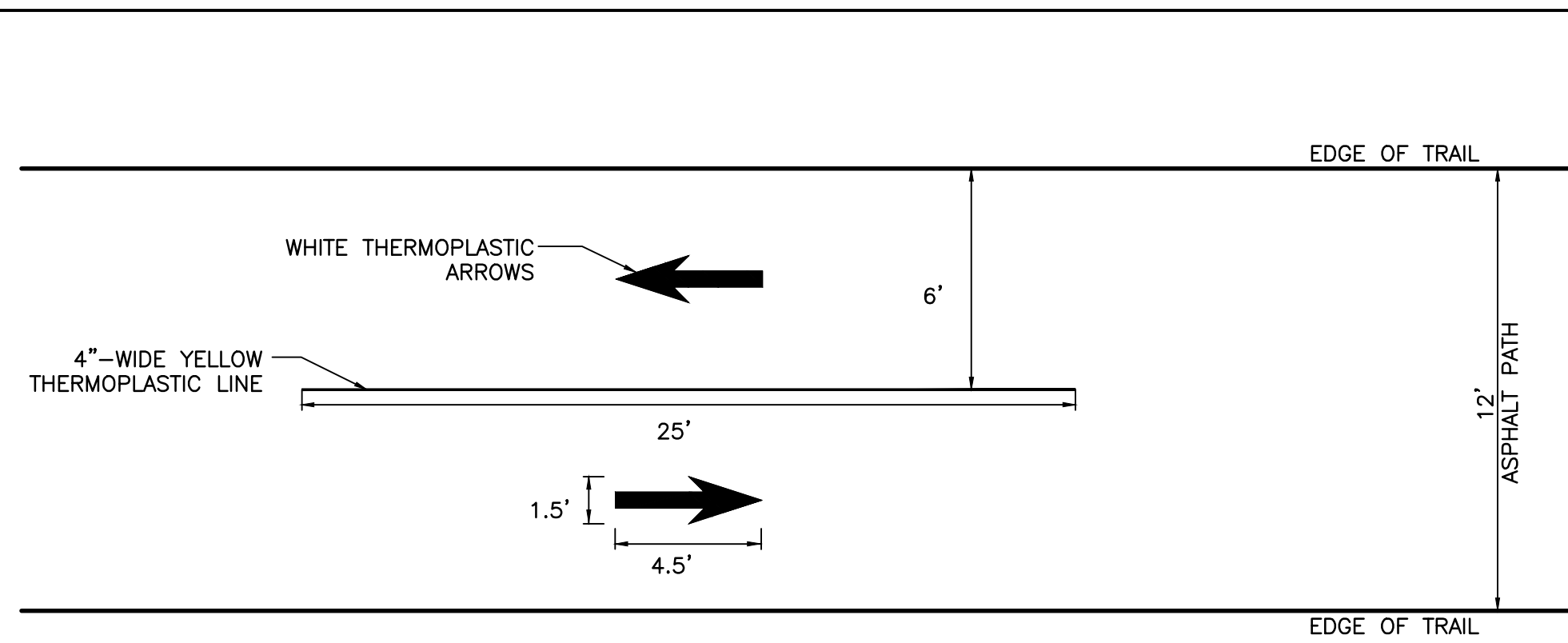
PREPARED BY:



CONFORMED SET

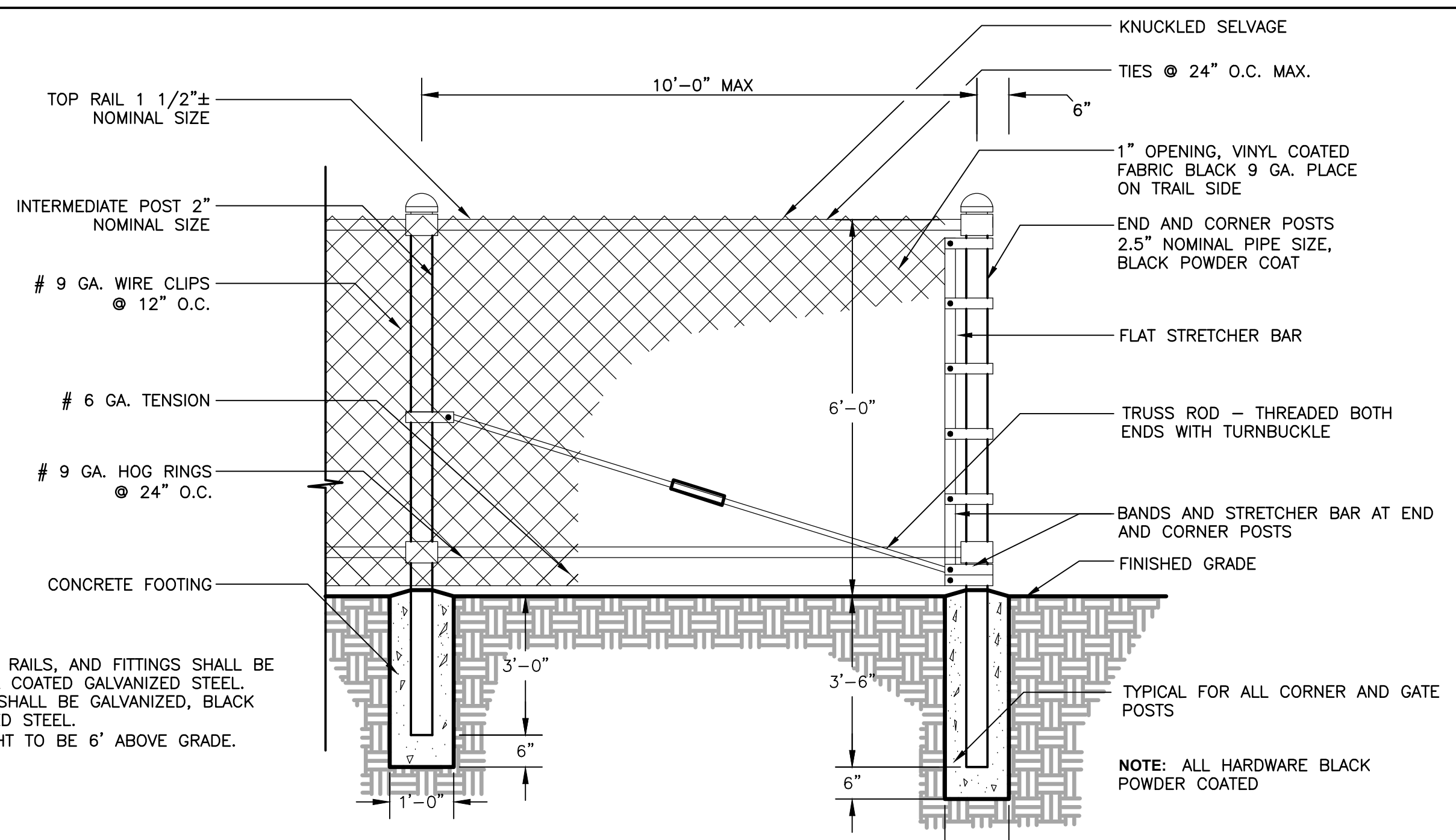


FOR PLAN, SEE SHEET 9



- NOTE:
1. PAVEMENT MARKING LOCATIONS SPECIFIED ON PAVEMENT MARKING AND SIGNAGE PLAN SHEETS 10 - 12.
 2. PAVEMENT MARKINGS ARE LOCATED NEAR PERMEABLE PAVER OUTLOOK AREAS AND AT THE PROPOSED RETAINING WALL.

PAVEMENT MARKINGS
NOT TO SCALE

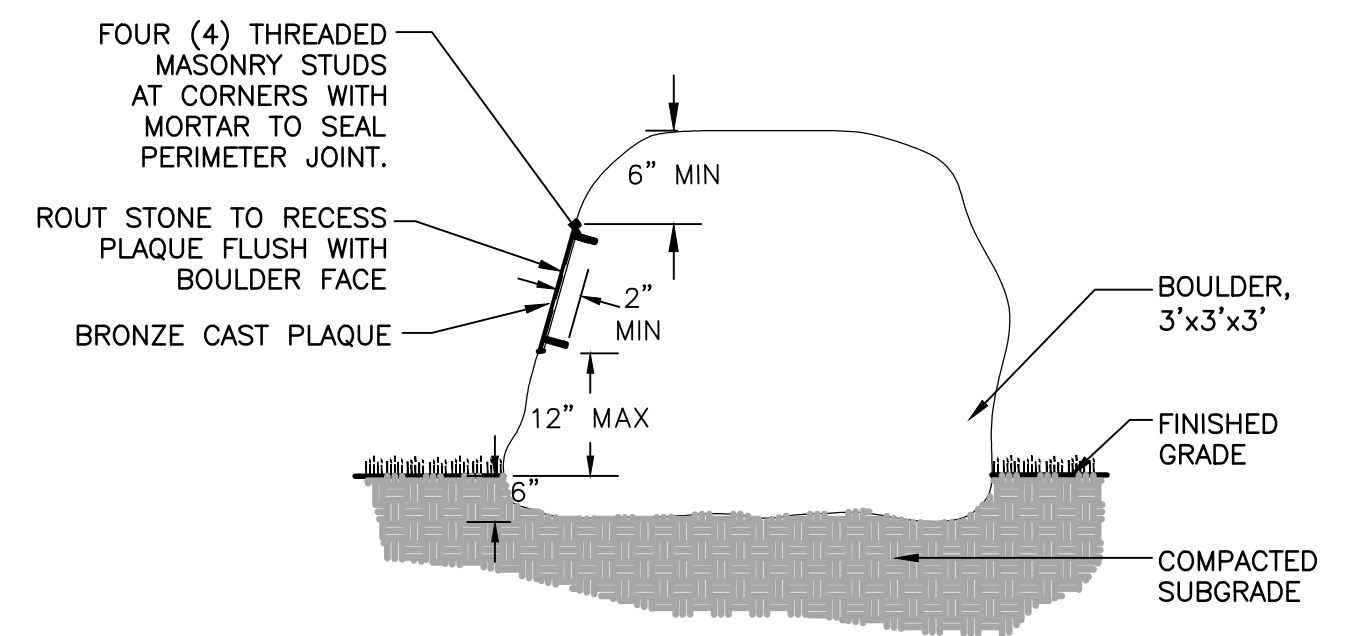


- NOTE:
1. ALL FABRIC, RAILS, AND FITTINGS SHALL BE BLACK VINYL COATED GALVANIZED STEEL. ALL POSTS SHALL BE GALVANIZED, BLACK VINYL COATED STEEL.
 2. FENCE HEIGHT TO BE 6' ABOVE GRADE.

CHAINLINK FENCING
NOT TO SCALE

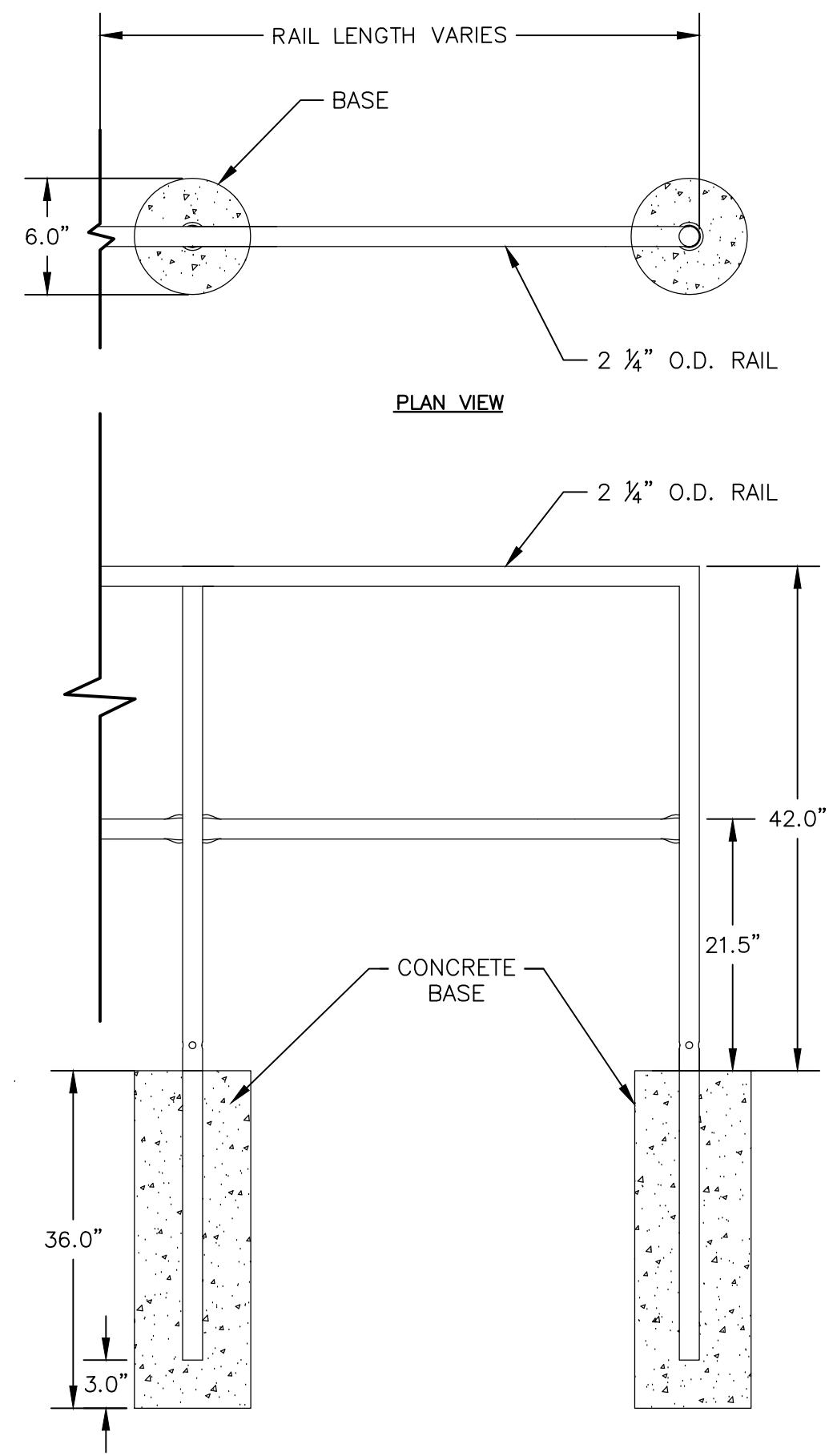
DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	PHILADELPHIA	-		28 OF 29	
CITY OF PHILADELPHIA					
REVISION NUMBER	REVISIONS			DATE	BY
A	CONFORMED SET			11/2/2015	JAB

SITE CIVIL DETAIL SHEET

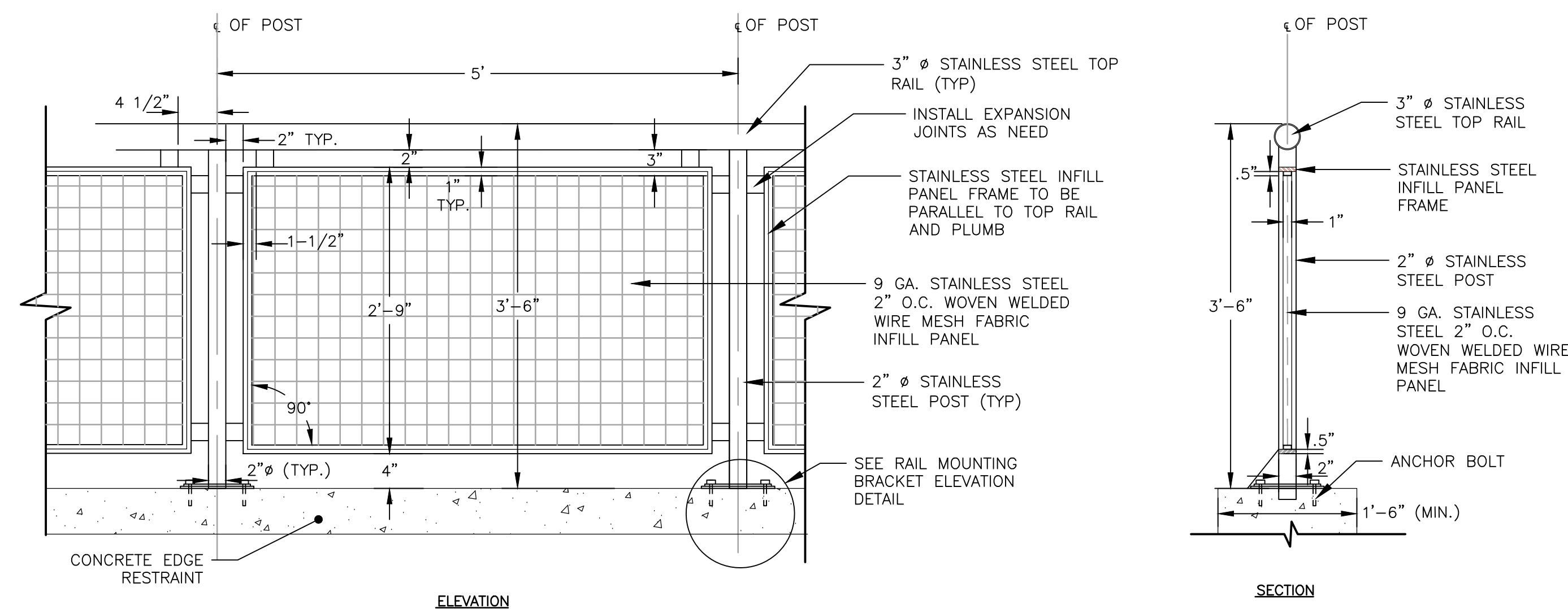


- NOTE:
1. BOULDER TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 2. BOULDER MUST BE PLACED TO PROHIBIT MOVEMENT/ROCKING.

BOULDER WITH BRONZE PLAQUE
NOT TO SCALE

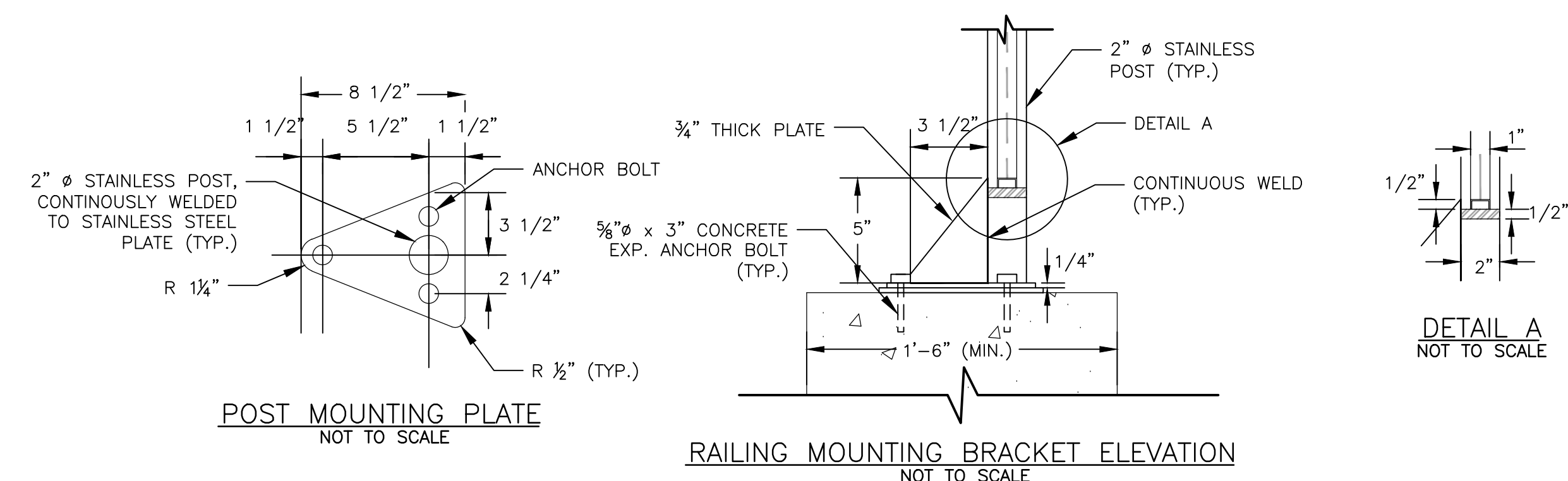


PIPE RAILING DETAIL
NOT TO SCALE



- NOTE:
1. SUBMIT SHOP DRAWINGS FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF RAILING.
 2. ADJUST ANGLES OF INFILL PANELS TO MAINTAIN 2' SPACING FROM TOP RAIL AND POST FOR PANELS STARTING AT LANDSIDE PLATFORM EXTENDING TO WALKWAY BENT 2.
 3. RAILING AND INFILL PANEL TO BE SIMILAR TO THE FENCE ON MARKET ST./CHESTNUT ST. RAMPS ON SCHUYLKILL BANKS.

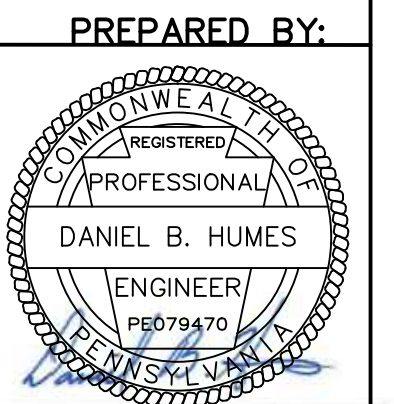
STAINLESS STEEL RAILING WITH INFILL PANEL
NOT TO SCALE



POST MOUNTING PLATE
NOT TO SCALE

RAILING MOUNTING BRACKET ELEVATION
NOT TO SCALE

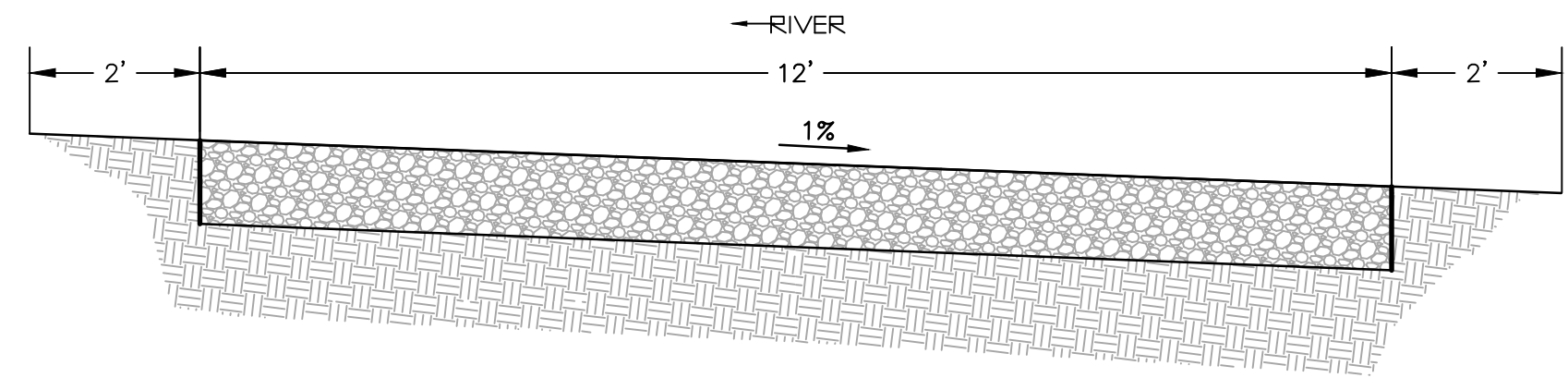
DETAIL A
NOT TO SCALE



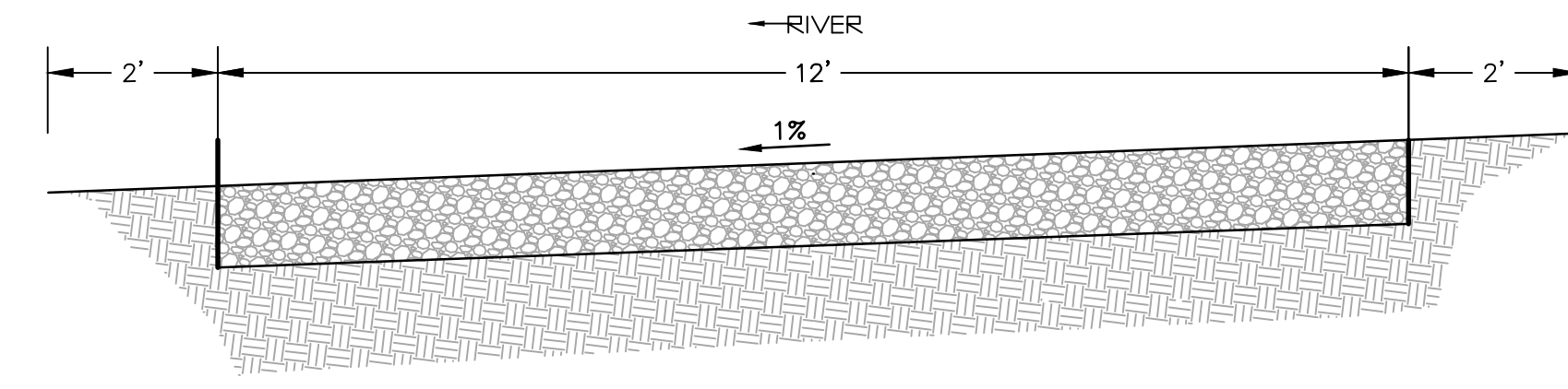
CONFORMED SET

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	PHILADELPHIA	-		29 OF 29	
CITY OF PHILADELPHIA					
REVISION NUMBER	REVISIONS			DATE	BY
A	CONFORMED SET			11/2/2015	JAB

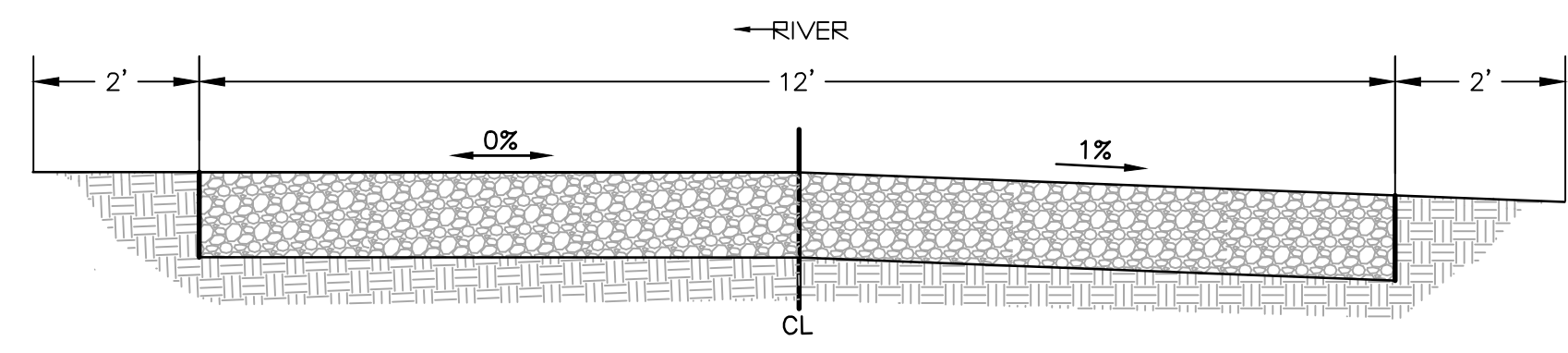
TRAIL CROSS SECTIONS DETAIL SHEET



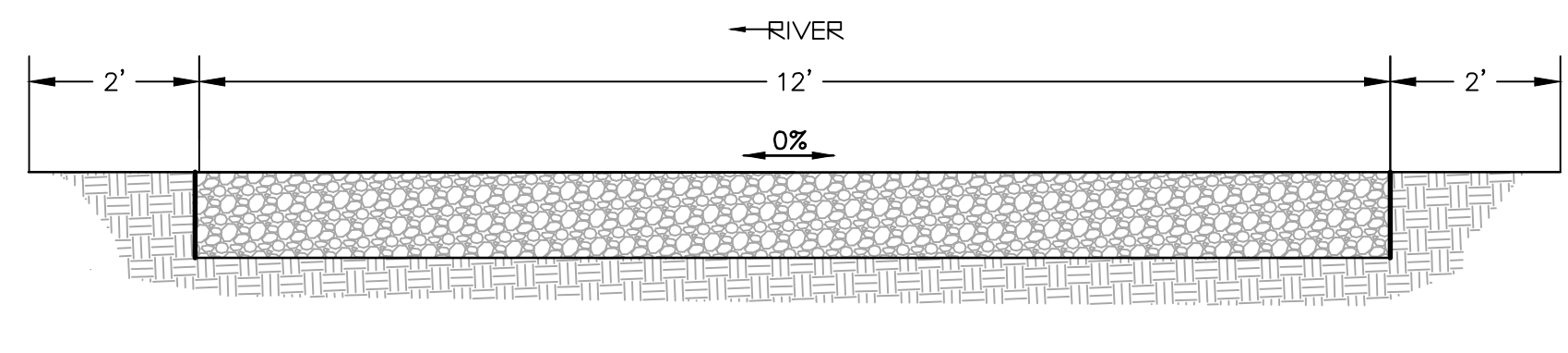
TYPICAL TRAIL SECTION – LOOKING NORTH
STA 99+56.00 to 100+39.50
NOT TO SCALE



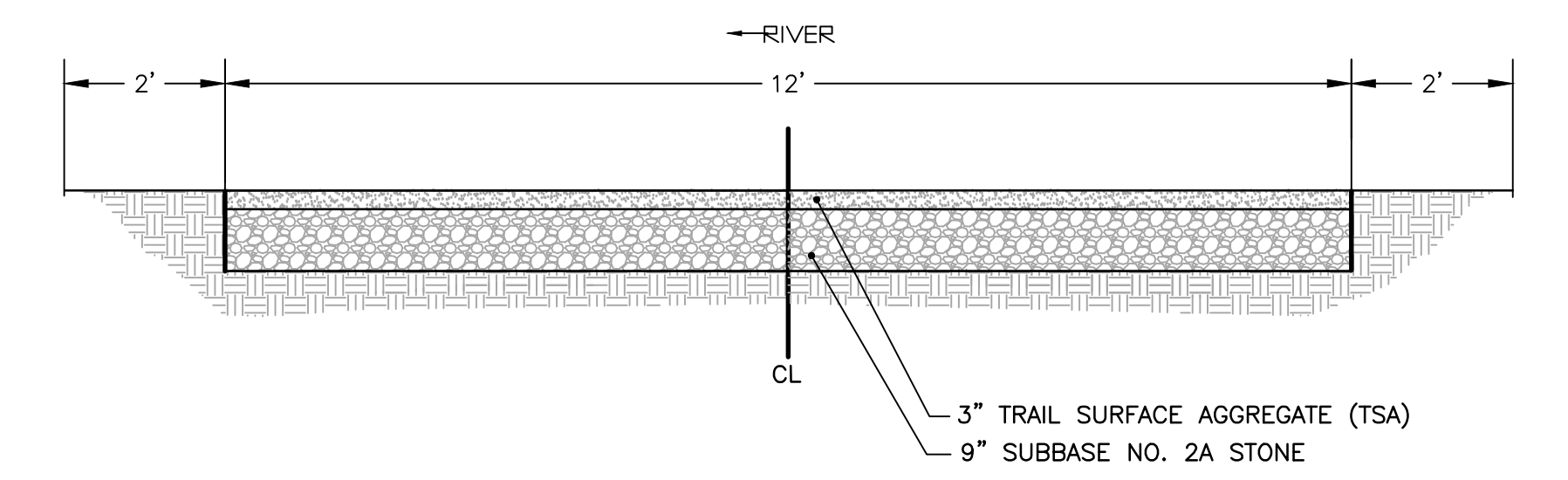
TYPICAL TRAIL SECTION – LOOKING NORTH
STA 100+54.50 to 109+54.00
NOT TO SCALE



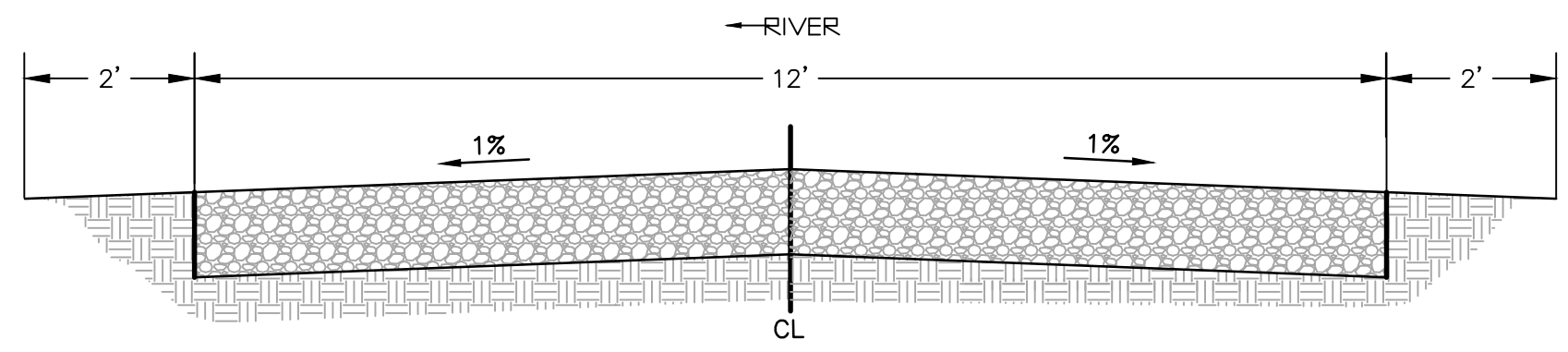
TYPICAL TRAIL SECTION – LOOKING NORTH
STA 100+39.50 to 100+44.50*
NOT TO SCALE



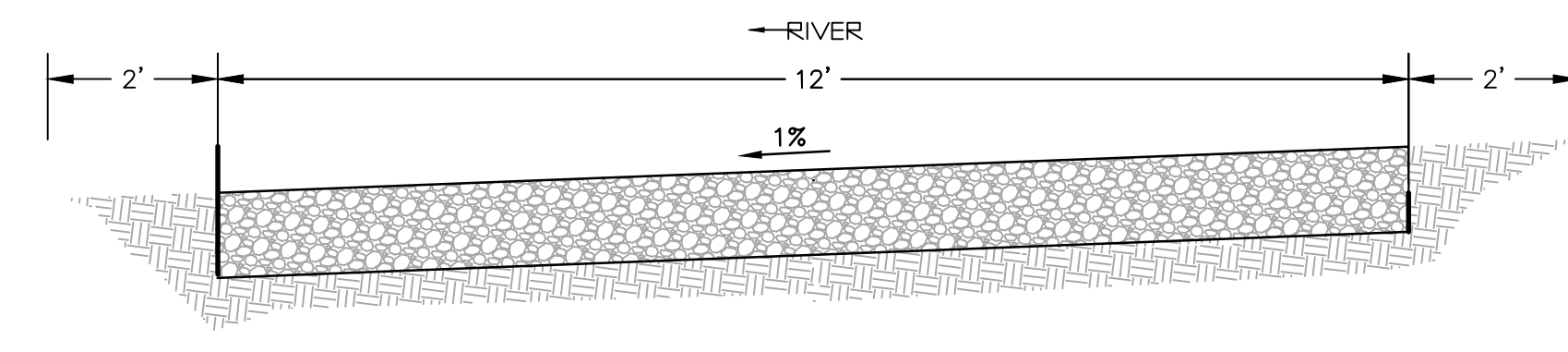
TYPICAL TRAIL SECTION – LOOKING NORTH
STA 109+54.00 to 110+16.00*
NOT TO SCALE



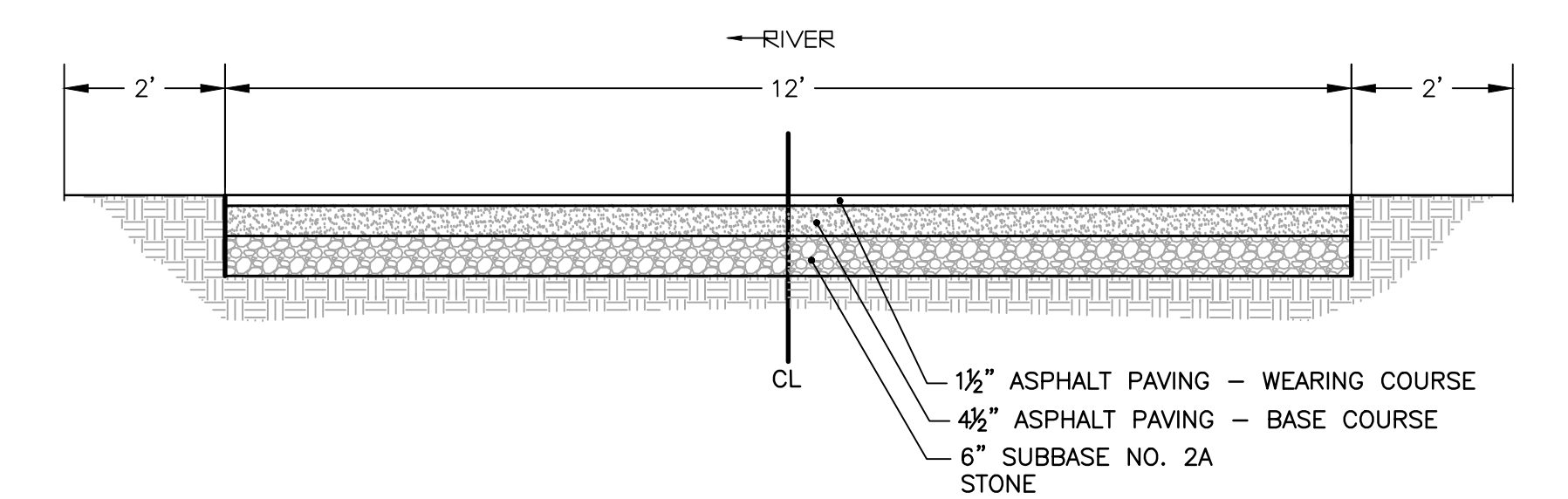
TYPICAL TRAIL SECTION – ALTERNATE #1
NOT TO SCALE



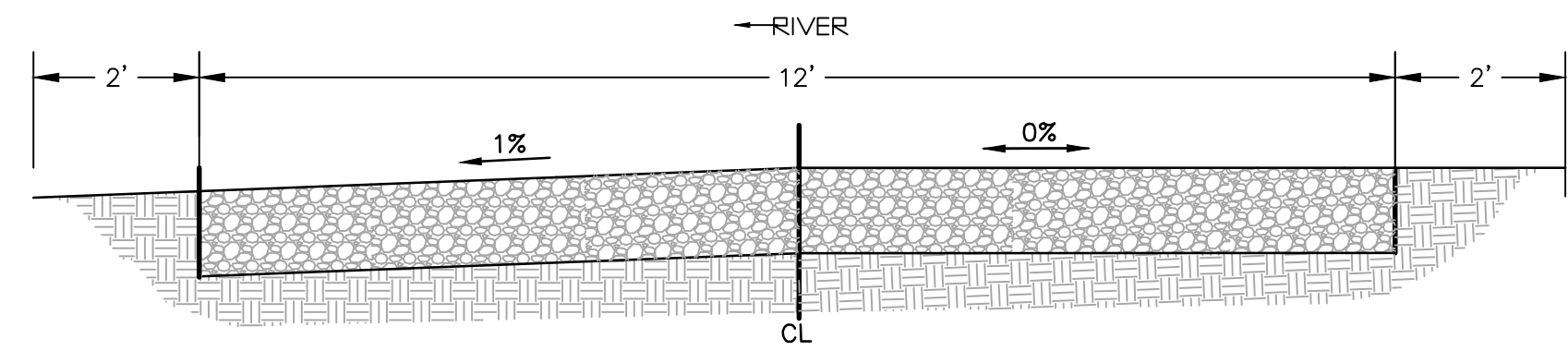
TYPICAL TRAIL SECTION – LOOKING NORTH
STA 100+44.50 to 100+49.50*
NOT TO SCALE



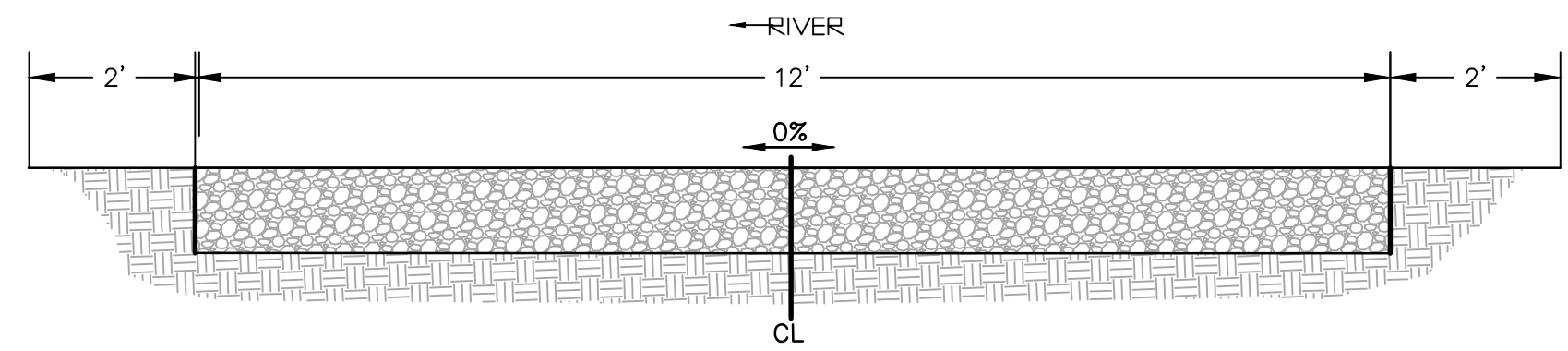
TYPICAL TRAIL SECTION – LOOKING NORTH
STA 110+16.00 to 113+42.50
NOT TO SCALE



TYPICAL TRAIL SECTION – ALTERNATE #2
NOT TO SCALE

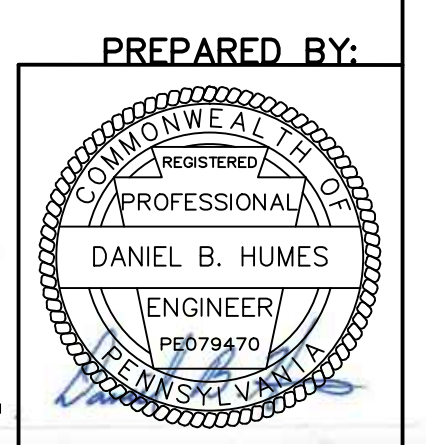


TYPICAL TRAIL SECTION – LOOKING NORTH
STA 100+49.50 to 100+54.50*
NOT TO SCALE



TYPICAL TRAIL SECTION – LOOKING NORTH
STA 113+42.50 to 113+68.00*
NOT TO SCALE

NOTE: ALL SECTIONS SYMBOLIZED WITH AND "*" INDICATE A TRANSITION IN TRAIL SLOPE. CONTRACTOR TO FEATHER TRAIL SECTIONS ACCORDINGLY TO ALLOW FOR A SMOOTH TRANSITION BETWEEN CHANGES IN CROSS SLOPE.



CONFORMED SET