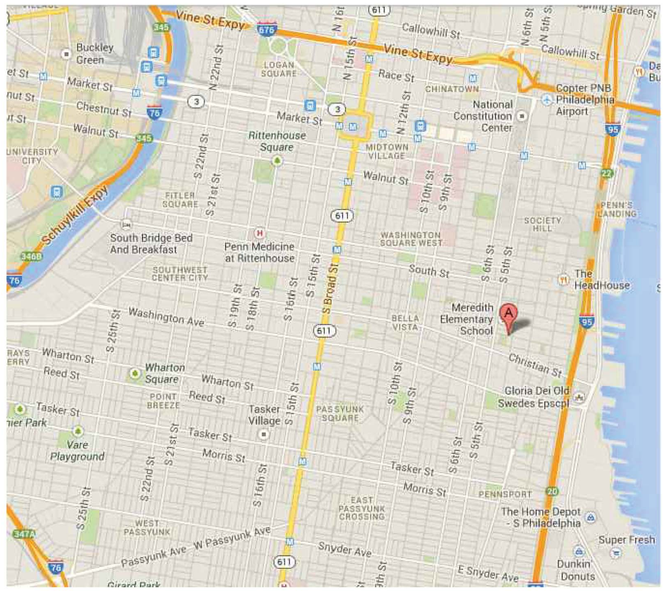
Weccacoe Playground Improvements

November 20, 2015



LOCATION MAP
WECCACOE PLAYGROUND
4TH & CATHARINE STREETS
PHILADELPHIA, PA 19147-3106

CONTEXT MAP
WECCACOE PLAYGROUND
4TH & CATHARINE STREETS
PHILADELPHIA, PA 19147-3106

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100% CONSTRUCTION DOCUMENTS

NOTICE

PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 287, AS AMENDED, THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776 AT LEAST 3 DAYS PRIOR TO EXCAVATION.

HIGHWAY DISTRICT NO. _____ WARD NO. _____

SURVEY DISTRICT NO. _____ DRAINAGE SHT. NO. _____ OUTFALL NO. _____

ONE CALL SERIAL NO. _____

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY
PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY
PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design
ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez CONSULTING
SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

COVER SHEET

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM

LEITHGOW STREET TO LAWRENCE STREET

APPROVED _____
LEIGH ANN CAMPBELL, PLA, PHS

APPROVED _____
DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

APPROVED _____
WATER COMMISSIONER

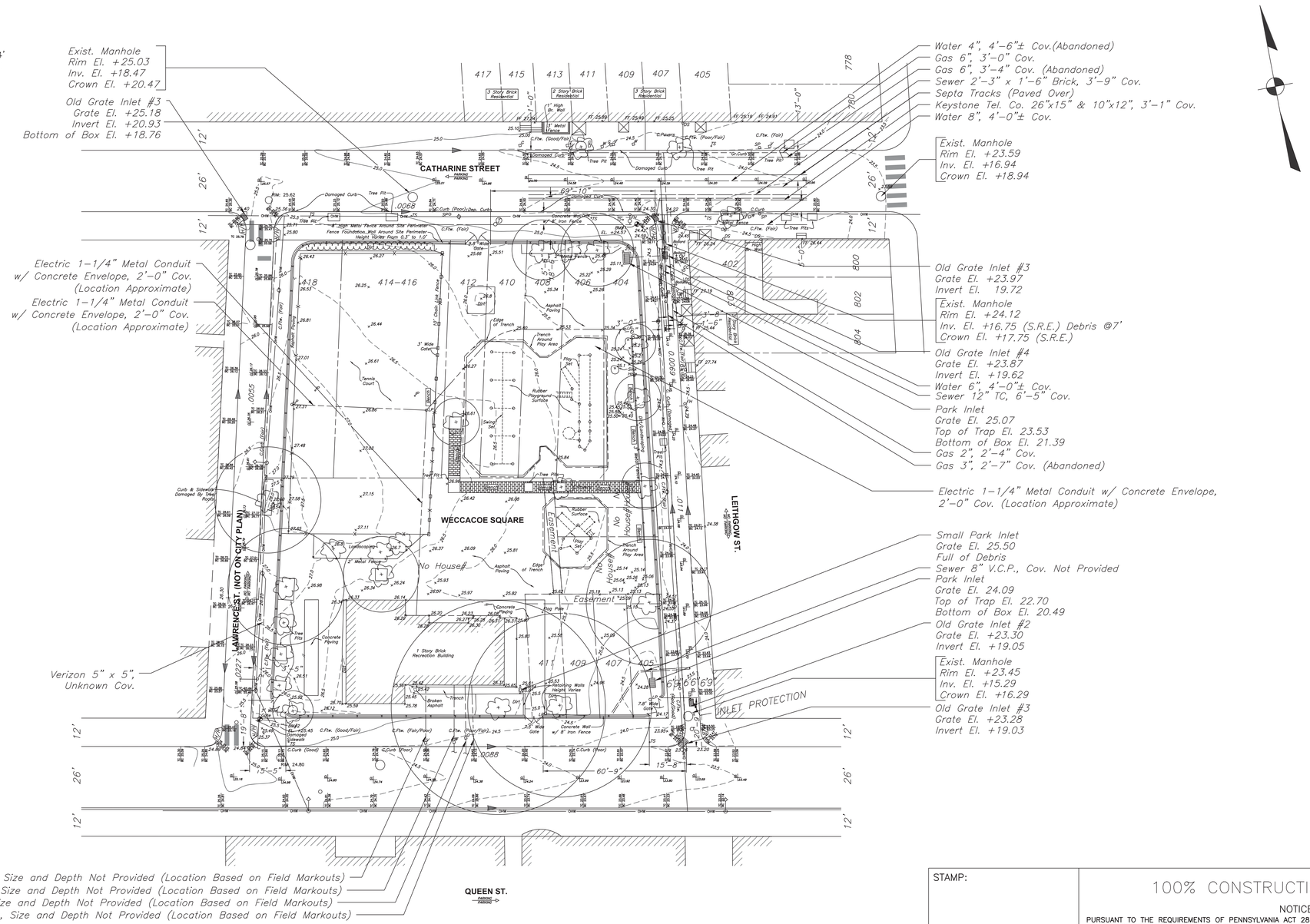
WORK NO. S-50083-G

SHEET NO. CS-1 OF 24 SHEETS

NO.	DATE	ISSUE

DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
SUPERVISOR		DATE

CONTROLLING BENCHMARK:
BM 1: NAIL AND WASHER LOCATED AT SOUTHWESTERLY CORNER OF CATHERINE STREET AND LEITHGOW STREET, 48' FROM FIRE HYDRANT, 19.8' FROM UTILITY POLE ACROSS LEITHGOW STREET, 22.4' FROM BUILDING CORNER ACROSS LEITHGOW STREET, EL.= +24.57
BM 2: NAIL AND WASHER LOCATED AT NORTHEASTERLY CORNER OF QUEEN STREET AND LAWRENCE STREET, 11.5' FROM UTILITY POLE, 15.4' FROM TRAFFIC SIGN, 21.6' FROM BUILDING CORNER ACROSS LAWRENCE STREET, EL.= +25.45
VERTICAL ADJUSTMENT FROM NAVD88 DATUM TO PHILADELPHIA CITY DATUM = −4.50'



LEGEND

V	Vent Box
G	Gas Box
W	Water Box
?	Unknown Curb Box
P	Pole
LP	Lamp Post
TL	Traffic Light
SP	SEPTA Pole
TS	Traffic Sign
IP	Iron Post
DS	Downspout
FH	Fire Hydrant
FA	Fire Alarm Box
CC	Coal Chute
PM	Parking Meter
MB	Mail Box
SS	Survey Stone
	Benchmark
Trash	Trash Receptacle
Bollard	Bollard
Stump	Tree Stump
	P.E.Pole
	P.E.Pole W/Light
	Water or Gas Valve
	Reducer
	Air Release Valve
	Sewer Manhole
	Manhole Symbol For BTCo, PECo, EB, KTCo, SEPTA, AT&T, & CATV
	Manhole Lid of Unknown Origin
	Electrolysis Test Station
	Curb Flow Direction
	Tree−# Denotes Trunk Size
	Shrub
CATV	Cable TV Box
Door Sill	Door Sill
Phone	Pay Phone
Traffic Control	Traffic Signal Controller
Grate	Steam Grate
	Bike Rack
	Steps
	Cellar Doors
	Porch
	Old Grate Inlet No's 1−4
	Old Open Mouth Inlet No's 1−4
4"	4' City Inlet
	Open Mouth Grate Inlet
	Window Grate
Bus Shelter	SEPTA Bus Shelter
Bench	Bench
	Driveway
C. Curb	Concrete Curb
C. Ftw.	Concrete Footway
Br. Ftw.	Brick Footway
Sl. Ftw.	Slate Footway
Gr. Ftw.	Granite Footway
Br. Gut.	Brick Gutter
C. Dr.	Concrete Driveway
H/R	Handicap Ramp
S.R.L.	Sewer Return Loc.
S.R.E.	Sewer Return Elev.
Dep. Curb	Depressed Curb
Gr. Curb	Granite Curb
Bl. St. Curb	Blue Stone Curb
St. Wall	Stone Wall
Br. Wall	Brick Wall
C. Wall	Concrete Wall
C.N.O.	Could Not Open
SIP	Stand Pipe
	Fence−Any Type
	Right of Way Line
	Right of Way (Not on City Plans)
	P.E.Co.
	Gas
	Water
	Verizon
	Sewer

NOTES:

ALL DISTANCES SHOWN ARE IN DISTRICT STANDARD MEASUREMENT. PAYMENT FOR ALL WORK WILL BE BASED UPON THAT STANDARD.

THE LOCATIONS AND ELEVATIONS OF THE EXISTING SEWERS ARE APPROXIMATE. THE ELEVATIONS OF THE EXISTING SEWER AT THE TERMINATING CONNECTION POINTS TO THE PROPOSED SEWER MUST BE FIELD CHECKED PRIOR TO CONSTRUCTING THE NEW SEWER.

THE THICKNESS OF THE ARCHES AND THE CHARACTER AND THE EXTENT OF THE CRADLES OF THE EXISTING SEWERS ARE UNKNOWN.

SEAL OPEN ENDS OF SEWER WITH VITRIFIED PIPE STOPPERS AND OPEN ENDS OF STORM WATER CONDUITS WITH BRICK BULKHEADS.

REMOVE EXISTING PIPE STOPPERS AND BRICK BULKHEADS PRIOR TO CONNECTING TO EXISTING SEWERS OR STORM WATER CONDUITS.

EXISTING SEWER TO BE REMOVED WITHIN PAYMENT LINES FIXED FOR EXCAVATION, TO ENSURE PROPER DEPTH FOR NEW CRADLE.

(4) ■ DENOTES 4' CITY INLET
(4) ▨ DENOTES 4' OPEN MOUTH GRATE INLET
(R) DENOTES EXISTING INLET TO BE RECONNECTED IF FOUND TO BE WITHIN LIMITS OF PROPOSED SEWER.

STAMP:

100% CONSTRUCTION DOCUMENTS

NOTICE

PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 287, AS AMENDED, THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM AT 1−800−242−1776 AT LEAST 3 DAYS PRIOR TO EXCAVATION.

HIGHWAY DISTRICT NO. 2 WARD NO. 2
SURVEY DISTRICT NO. 2 DRAINAGE SHT. NO. 26 OUTFALL NO. D−63
ONE CALL SERIAL NO. 20131052917

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY
PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY
PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design
ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez CONSULTING
SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

EXISTING CONDITIONS PLAN

WECCACOE PLAYGROUND

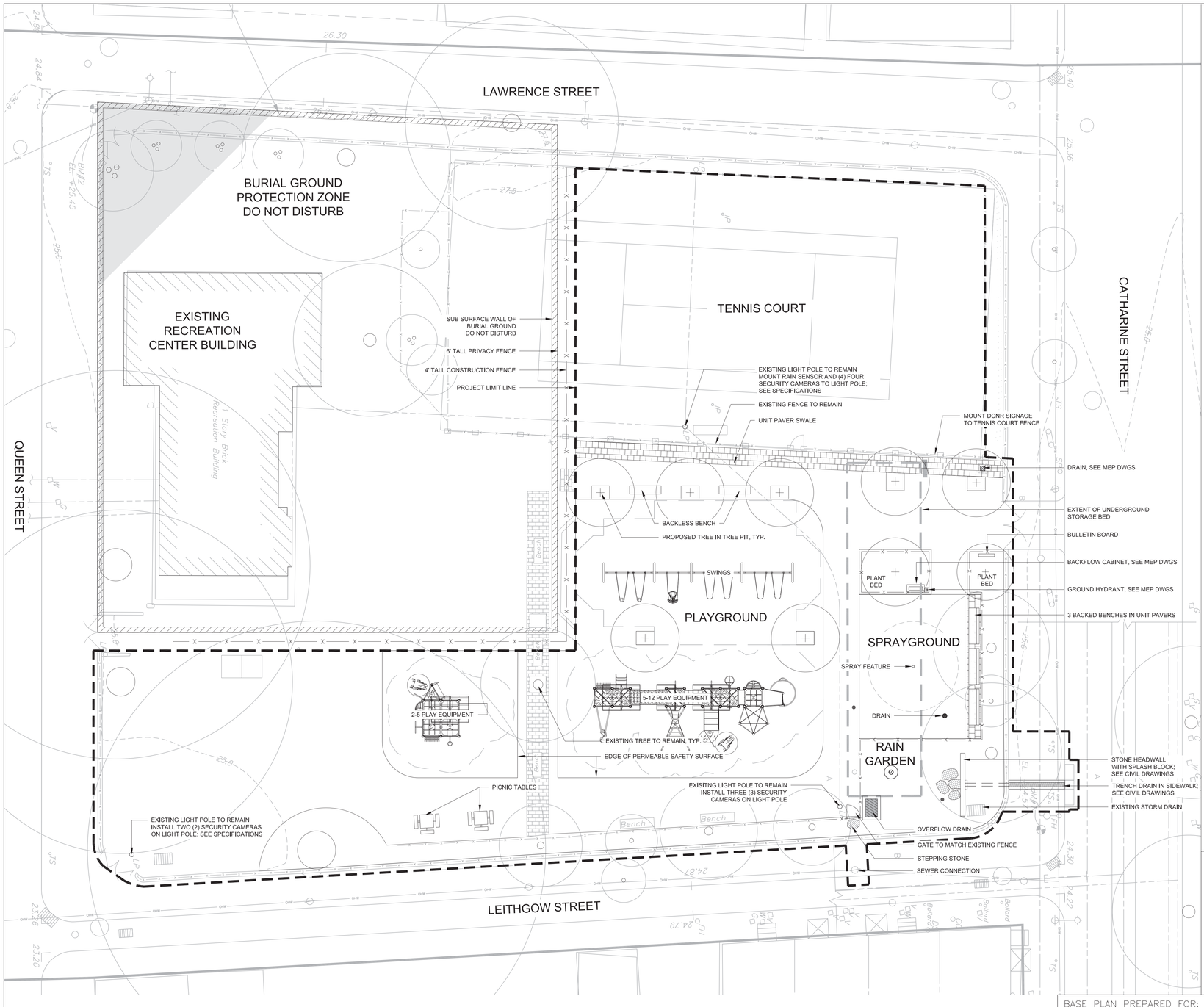
CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED ..... JAMES W. ADAMS, PE, PRINCIPAL ENGINEER, MELIORA DESIGN
APPROVED ..... DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES
APPROVED ..... WATER COMMISSIONER

NO.	DATE	ISSUE

WORK NO. S−50083−G
SHEET NO. G−0 OF 24 SHEETS

DRAWN BY	AMH/CEF	11/20/15
PROJECT ENGR.	JWA	
JAMES W. ADAMS, PE		11/20/15
SUPERVISOR		DATE



LEGEND

- PROJECT LIMIT LINE
- PROPOSED BENCH - BACKED
- PROPOSED BENCH - BACKLESS
- Bench EXISTING BENCH TO REMAIN
- PROPOSED TREE
- EXISTING TREE TO REMAIN
- EXISTING FENCE TO REMAIN
- PROPOSED FENCE
- 4'-0" TALL CONSTRUCTION FENCE
- 6'-0" TALL PRIVACY FENCE
- SUBSURFACE WALL - DO NOT DISTURB
- BURIAL GROUND PROTECTION ZONE DO NOT DISTURB

N

0 10' 20'
SCALE: 1" = 10'-0"

STAMP:

COMMONWEALTH OF PENNSYLVANIA
LEIGH ANN CAMPBELL
REGISTERED
LANDSCAPE ARCHITECT

100% CONSTRUCTION DOCUMENTS

NOTICE

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HIGHWAY DISTRICT NO. _____ WARD NO. _____

SURVEY DISTRICT NO. _____ DRAINAGE SHT. NO. _____ OUTFALL NO. _____

ONE CALL SERIAL NO. _____

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY
PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY
PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design
ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez CONSULTING
SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

SITE PLAN

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM

LEITHGOW STREET TO LAWRENCE STREET

APPROVED _____
LEIGH ANN CAMPBELL, PLA, PHS

APPROVED _____
DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

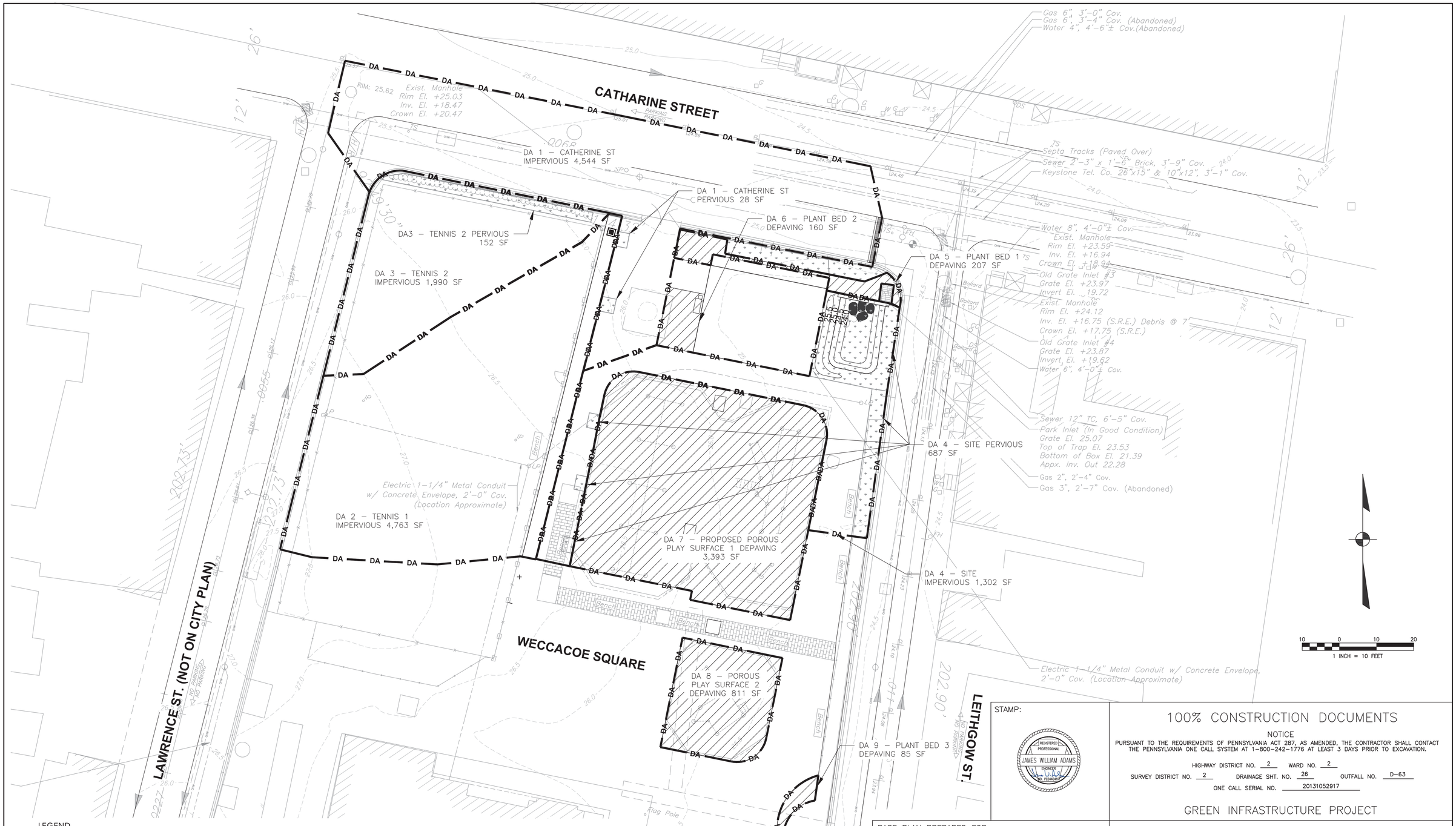
APPROVED _____
WATER COMMISSIONER

WORK NO. S–50083–G

SHEET NO. G–1 OF 24 SHEETS

NO.	DATE	ISSUE

DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
SUPERVISOR		DATE



LEGEND

- DOMED RISER
- PWD STANDARD CONCRETE BOX WITH SOLID LID
- 12" x 12" CONCRETE INLET
- STORAGE TRENCH
- TRENCH DRAIN
- BELGIAN BLOCK SWALE
- DRAINAGE AREA
- PERVIOUS AREA
- DEPAVING - POROUS RUBBER PLAY SURFACE OR PLANT BED

Drainage Area #	Drainage Area Managed	Pervious Drainage Area (SF)	Impervious Drainage Area (SF)	Total Area (SF)	Inches Managed (IN)	Greened Acres (AC)
1	CATHERINE ST	28	4,544	4,572	1.0	0.10
2	TENNIS 1	0	4,763	4,763	1.0	0.11
3	TENNIS 2	152	1,990	2,142	1.0	0.05
4	SITE	687	1,302	1,989	1.0	0.05
5	PLANT BED 1 DEPAVING	207	0	207	1.0	0.005
6	PLANT BED 2 DEPAVING	160	0	160	1.0	0.004
7	POROUS PLAY SURFACE 1 DEPAVING	3,393	0	3,393	1.0	0.08
8	POROUS PLAY SURFACE 2 DEPAVING	811	0	811	1.0	0.02
9	PLANT BED 3 DEPAVING	85	0	85	1.0	0.002
	TOTAL	5,523	12,599	18,122	----	0.42

STAMP:

REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
NO. PE044016

100% CONSTRUCTION DOCUMENTS

NOTICE

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HIGHWAY DISTRICT NO. 2 WARD NO. 2

SURVEY DISTRICT NO. 2 DRAINAGE SHT. NO. 26 OUTFALL NO. D–63

ONE CALL SERIAL NO. 20131052917

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

FIND YOUR PATH — PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY
PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY
PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design
ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez CONSULTING
SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

DRAINAGE AREA PLAN

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED ..... JAMES W. ADAMS, PE, PRINCIPAL ENGINEER, MELIORA DESIGN

APPROVED ..... DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

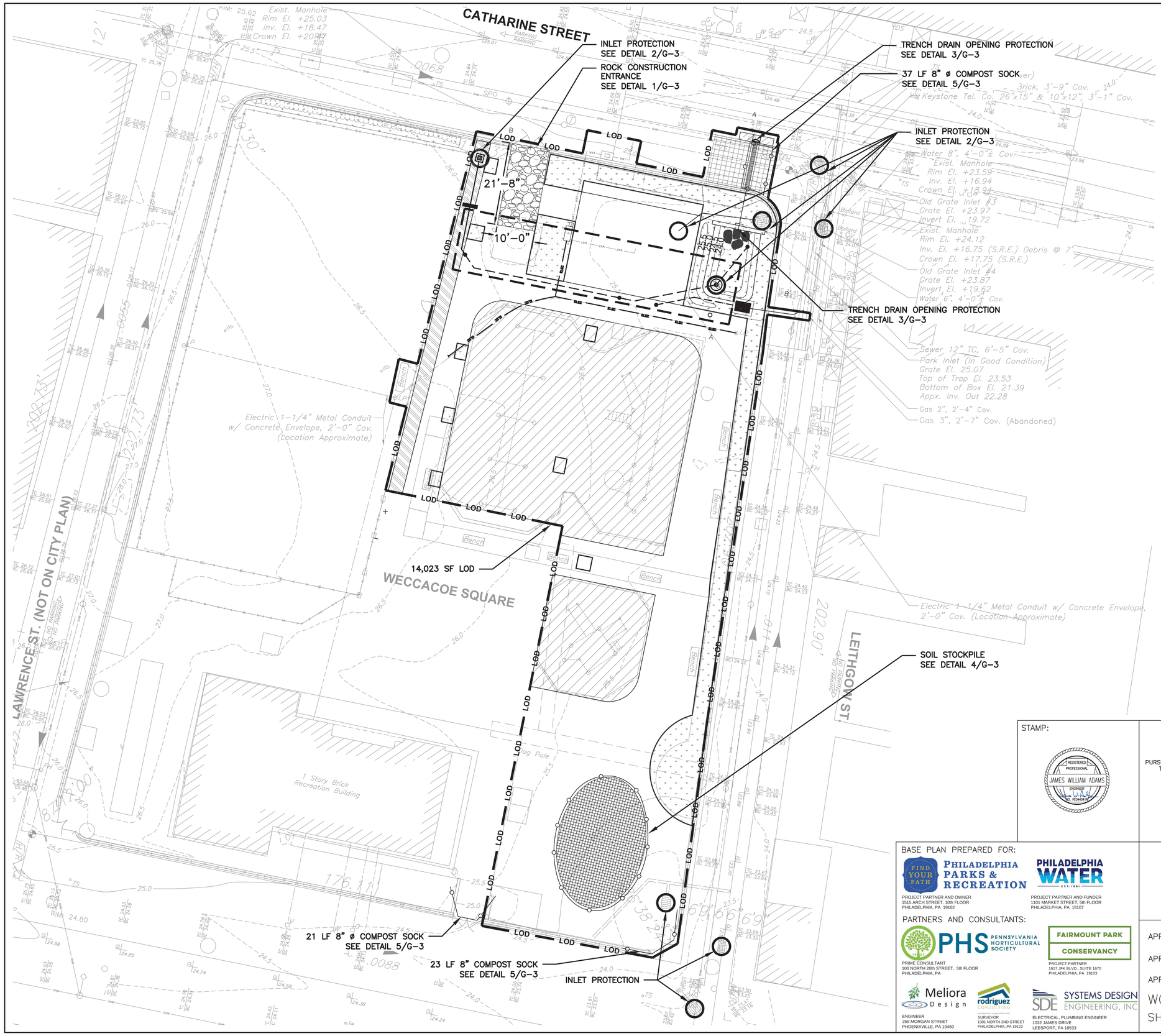
APPROVED ..... WATER COMMISSIONER

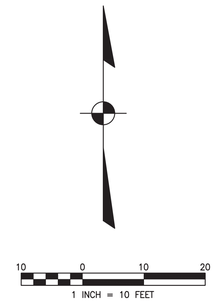
NO.	DATE	ISSUE

WORK NO. S–50083–G

SHEET NO. DA–1 OF 24 SHEETS

DRAWN BY	AMH/CEF	11/20/15
PROJECT ENGR.	JWA	
JAMES W. ADAMS, PE		11/20/15
SUPERVISOR		DATE





NOTES:
1. FOR GENERAL NOTES, SEE SHEET G-3.
2. FOR CONSTRUCTION SEQUENCE, SEE SHEET G-3.
3. FOR EROSIONS & SEDIMENT CONTROL NOTES, SEE SHEET G-3.
4. FOR CONSTRUCTION FENCE LOCATIONS, SEE SHEET G-1.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- CLEANOUT
- OBSERVATION WELL
- DOMED RISER
- PWD STANDARD CONCRETE BOX WITH SOLID LID
- 12" x 12" CONCRETE INLET
- CONCRETE APRON
- TRENCH DRAIN OPENING PROTECTION
- INLET PROTECTION
- STOCKPILE WITH COMPOST SOCK
- LOD — LIMIT OF DISTURBANCE (14,445 SF)
- DUCTILE IRON PIPE
- PERF. HDPE PIPE
- STORMWATER BED
- UNIT PAVER SWALE
- TRENCH DRAIN
- PLANTING BED
- POROUS RUBBER PLAY SURFACE
- ROCK CONSTRUCTION ENTRANCE
- CONCRETE CURB AND SIDEWALK REPLACEMENT

STAMP:

REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
NO. PE040418

100% CONSTRUCTION DOCUMENTS

NOTICE

PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 287, AS AMENDED, THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776 AT LEAST 3 DAYS PRIOR TO EXCAVATION.

HIGHWAY DISTRICT NO. 2 WARD NO. 2
SURVEY DISTRICT NO. 2 DRAINAGE SHT. NO. 26 OUTFALL NO. D-63
ONE CALL SERIAL NO. 20131052917

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

FIND YOUR PATH PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

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PROJECT PARTNER AND FUNDER
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PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

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SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

EROSION & SEDIMENT CONTROL PLAN
WECCACOE PLAYGROUND
CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED ..... JAMES W. ADAMS, PE, PRINCIPAL ENGINEER, MELIORA DESIGN

APPROVED ..... DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

APPROVED ..... WATER COMMISSIONER

WORK NO. S-50083-G

SHEET NO. G-2 OF 24 SHEETS

NO.	DATE	ISSUE

DRAWN BY	AMH/CEF	11/20/15
PROJECT ENGR.	JWA	
JAMES W. ADAMS, PE		11/20/15
SUPERVISOR		DATE

GENERAL NOTES

1. ALL DISTANCES SHOWN ARE IN DISTRICT STANDARD MEASUREMENT. PAYMENT FOR ALL WORK WILL BE BASED UPON THAT STANDARD.
2. THE LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES ARE APPROXIMATE. THE ELEVATIONS OF THE EXISTING UTILITIES MUST BE FIELD CHECKED DURING CONSTRUCTION.
3. ALL SIDEWALK AND CURBING TO BE REPLACED IN KIND ALONG FULL LIMITS OF CONSTRUCTION TO NEXT EXISTING JOINT OR AS DIRECTED BY PWD.
4. SUFFICIENT EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR AS TO PREVENT STANDING WATER OR SEDIMENTATION OF STORMWATER SYSTEMS. SYSTEMS DETERMINED BY PWD TO BE INADEQUATELY PROTECTED AND THEREBY COMPROMISED WILL BE REPLACED TO THE EXTENT REQUIRED BY PWD (UP TO AND INCLUDING FULL REPLACEMENT) AT NO ADDITIONAL COST TO PWD.

CONSTRUCTION SEQUENCE

THE CONSTRUCTION PLANS HAVE BEEN DEVELOPED BASED ON AVAILABLE INFORMATION PROVIDED BY THE OWNER. THE PROJECT AREA INCLUDES EXISTING UTILITIES OF UNKNOWN LOCATION AND DEPTH. ACTUAL CONDITIONS MAY DIFFER FROM THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CONDITIONS PRIOR TO INITIATING WORK, AND FOR NOTIFYING THE ENGINEER IMMEDIATELY UPON BECOMING AWARE OF POTENTIAL CONFLICTS OR VARIATIONS IN CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL UTILITY AND STRUCTURE LOCATIONS AND ELEVATIONS AS REQUIRED FOR CONSTRUCTION.
UPON COMPLETION OR TEMPORARY CESSATION OF EARTH DISTURBANCE ACTIVITIES OR ANY STAGE THEREOF, THE PROJECT SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION. COORDINATE THIS SEQUENCE WITH OTHER SITE NOTES.

ORDER A UTILITY MARK OUT UTILIZING THE PENNSYLVANIA ONE CALL SYSTEM. SITE UTILITIES MUST BE FIELD LOCATED AND MARKED BEFORE THE START OF ANY SITE WORK, INCLUDING ALL PRIVATE UTILITIES.

1. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS DESCRIBED IN EACH STAGE.
2. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN. NO DISTURBANCE CAN TAKE PLACE OUTSIDE OF THE LIMIT OF DISTURBANCE.
3. INSTALL TREE PROTECTION FENCE AS SHOWN ON THE L-SERIES PLANS.
4. DEMOLISH AND REMOVE PAVEMENTS INDICATED FOR DEMOLITION TO INSTALL STORAGE TRENCH.
5. INSTALL STORAGE TRENCH. MAINTAIN EROSION AND SEDIMENT CONTROL THROUGHOUT CONSTRUCTION TO PREVENT SEDIMENT LADEN WATER FROM ENTERING TRENCH.
   a. EXCAVATE TO LEVEL BED BOTTOM WITHIN THE STORAGE TRENCH EXTENTS AS INDICATED ON PLANS, REMOVING ANY DELETERIOUS MATERIAL 2-INCHES OR LARGER. REMOVE EXCESS CUT FROM SITE AND DISPOSE OF IN A LEGAL MANNER IN ACCORDANCE WITH THE SOLID WASTE MANAGEMENT REGULATIONS. PROTECT EXISTING SITE UTILITIES TO REMAIN DURING BED EXCAVATION.
   b. COMPACT BOTTOM OF STORAGE TRENCH TO 95% DENSITY.
   c. INSTALL IMPERMEABLE LINER ALONG STORAGE TRENCH BOTTOM AND SIDES AS SHOWN ON PLAN AND DETAILS. OVERLAP ADJACENT STRIPS OF LINER A MINIMUM OF 24" AND EXTEND LINER A MINIMUM OF 2' BEYOND EDGES OF STORAGE TRENCH (OR PER MANUFACTURER'S INSTRUCTIONS) TO PROTECT STORAGE TRENCH FROM SEDIMENTATION PER SPECIFICATIONS. PROTECT STORAGE TRENCH FROM SEDIMENT DEPOSITION DURING CONSTRUCTION USING COMPOST SOCK.
   d. INSTALL STORMWATER STRUCTURES.
   e. INSTALL STORMWATER PIPES TO LINE AND GRADE AS INDICATED ON PLAN. CONNECT PIPES TO STORMWATER STRUCTURES.
   f. BACKFILL STORAGE TRENCH WITH CLEAN WASHED AASHTO NO. 57 AGGREGATE TO GRADES INDICATED ON DRAWINGS. PLACE AGGREGATE IN 8" MAXIMUM LIFTS AND LIGHTLY COMPACT AGGREGATE AS INDICATED IN SPECIFICATIONS. ALL AGGREGATE WITHIN STORAGE/TRENCH SHALL REMAIN FREE OF SEDIMENT. IF SEDIMENT ENTERS THE AGGREGATE, THE CONTRACTOR MAY BE REQUIRED TO REMOVE AGGREGATE AND REPLACE WITH CLEAN-WASHED AGGREGATE.
   g. COMPACT AND ROLL AGGREGATE BED TO PROVIDE STABLE SUB-BASE. PLACE CHOKER COARSE TO PROVIDE LEVEL SURFACE FOR ASPHALT PAVING TO GRADES INDICATED ON PLANS.
   h. IF ANY UNFAVORABLE CONDITIONS ARE ENCOUNTERED DURING THE INSTALLATION OF THE INFILTRATION SYSTEMS (I.E. GROUNDWATER AND/OR BEDROCK, ETC.), THE OWNER/ENGINEER SHOULD BE NOTIFIED IMMEDIATELY.
   i. CONNECT OVERFLOW STRUCTURE TO EXISTING SEWER SYSTEM.
6. CUT HOLE IN EXISTING WALL WHERE PIPE FROM TRENCH DRAIN IS TO BE INSTALLED WHILE PROTECTING EXISTING FENCE TO REMAIN.
7. GRIND ASPHALT AND POUR CONCRETE APRON TO ELEVATIONS INDICATED ON PLANS.
8. INSTALL CONCRETE TRENCH DRAIN. INSTALL NEW D.I. PIPE AND GROUT INTO END OF TRENCH DRAIN. INSTALL TRENCH DRAIN GRATE.
9. POUR NEW CONCRETE SIDEWALK AND CURB.
10. POUR NEW CONCRETE WALL AT RAIN GARDEN.
11. ROUGH GRADE AND INSTALL RAIN GARDEN. WRAP RAIN GARDEN BOTTOM IN IMPERMEABLE LINER. INSTALL UNDER DRAIN IN RAIN GARDEN.
12. FILL RAIN GARDEN WITH SOILS AS SHOWN ON DETAILS AND TECHNICAL SPECIFICATIONS.
13. DO NOT PERMIT ANY CONSTRUCTION TRAFFIC OVER EXPOSED RAIN GARDEN & PROTECT FROM SEDIMENT BY WHATEVER MEANS NECESSARY.
14. INSTALL STONE SPLASH BLOCK.
15. PLANT AND MULCH RAIN GARDEN AS SHOWN ON LANDSCAPE PLANS AND DETAILS.

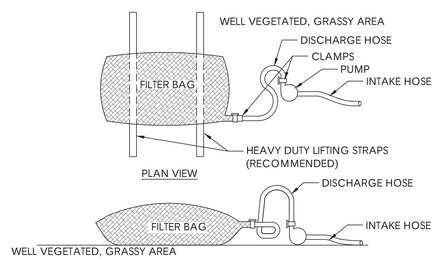
WHEN AREAS DRAINING TO RAIN GARDEN HAVE ACHIEVED STABILIZATION (A UNIFORM, 70% COVER OF EROSION RESISTANT PERENNIAL SPECIES), STORMWATER STRUCTURES MAY BE OPENED.

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL COMPLY WITH THE LOCAL REQUIREMENTS, AND THE REQUIREMENTS OF THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION CURRENT "EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL".
2. THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING AT LEAST ONE WEEK BEFORE BEGINNING LAND DISTURBANCE. A PRE-CONSTRUCTION MEETING IS REQUIRED ON THE SITE BETWEEN THE OWNER, CONTRACTORS AND ANY OTHER PERTINENT FIELD PERSONNEL AT LEAST ONE WEEK PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
3. A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN (SHEET G-2) MUST BE MADE AVAILABLE AT THE SITE AT ALL TIMES.
4. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 102. IN THE EVENT OF CONFLICT BETWEEN THESE REQUIREMENTS AND POLLUTION CONTROL LAWS, RULES, AND REGULATIONS OF OTHER STATE, LOCAL, OR FEDERAL REGULATIONS, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
5. THIS NARRATIVE AND THE ACCOMPANYING E&S PLAN SHALL BECOME PART OF AND BE INCORPORATED INTO THE CONTRACT DOCUMENTS. ANY DEVIATIONS FROM THE APPROVED E&S PLAN MUST BE APPROVED BY THE OWNER.
6. THE CONTRACTOR SHALL ASSURE THAT THE APPROVED E&S PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED. CONTROL MEASURES SHALL BE INSTALLED AND CONSTRUCTION ACTIVITIES CONDUCTED IN SUCH A MANNER THAT NO SEDIMENT LADEN RUNOFF IS ALLOWED TO LEAVE THE SITE. EROSION AND SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS.
7. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS COMPLETED.
8. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED AS NECESSARY IN THE EVENT OF UNFORESEEN PROBLEMS INCURRED DURING CONSTRUCTION.
9. INSPECTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL OCCUR ON A WEEKLY BASIS, BEFORE ANY ANTICIPATED PRECIPITATION EVENTS, AND AFTER ALL PRECIPITATION EVENTS.
10. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
11. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.
12. DURING CONSTRUCTION, IF IT IS DISCOVERED THAT FILL MATERIAL MUST BE IMPORTED OR EXPORTED FROM THE SITE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ENVIRONMENTAL DUE DILIGENCE AND MAKE A DETERMINATION OF CLEAN FILL IN ACCORDANCE WITH DEP's POLICY "MANAGEMENT OF FILL" DOCUMENT NO. 285.2182-773.
13. STOCKPILE HEIGHTS MUST NOT EXCEED 10 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
14. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF EXCESS MATERIAL. MAKE SURE THE SITE(S) RECEIVING THE EXCESS, HAS AN APPROVED E&S PLAN THAT MEETS THE REQUIREMENTS OF CHAPTER 102 AND ALL STATE AND LOCAL REGULATIONS.
15. FAILURE TO CORRECTLY INSTALL SEDIMENT CONTROL FACILITIES, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE CORRECTIVE ACTIONS TO IMMEDIATELY RESOLVE FAILURES OF SEDIMENT CONTROL FACILITIES WILL IMMEDIATELY RESULT IN ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE PADEP AS DEFINED IN SECTION 602 OF THE CLEAN STREAMS LAW OF PENNSYLVANIA. 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.
16. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE CONTRACTOR SHALL CONTACT THE OWNER FOR AN INSPECTION PRIOR TO THE REMOVAL OF THE BMPs. AREAS DISTURBED DURING REMOVAL OF EROSION AND SEDIMENT CONTROL BMPS MUST BE STABILIZED IMMEDIATELY.

UTILITY TRENCH LINE EXCAVATION NOTES

1. LIMIT ADVANCED CLEARING AND GRUBBING TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY.
2. WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PIPE CONSTRUCTION, AND BACKFILLING WILL BE SELF-CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS.
3. ALL SOIL EXCAVATED FROM THE TRENCH WILL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
4. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PIPE INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED IN ONE DAY.
5. WATER THAT ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPED THROUGH A FILTRATION DEVICE, SUCH AS A PUMPED WATER FILTER BAG. (SEE DETAIL 5/G-3)
6. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.



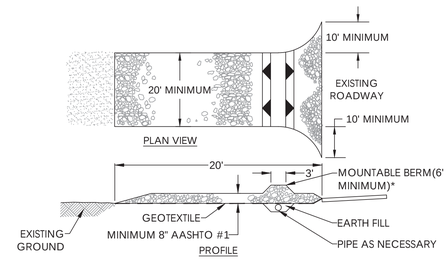
NOTES:

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

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
4. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
5. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
6. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
7. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

5 / G-3 PUMPED WATER FILTER BAG — NTS



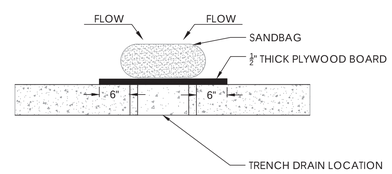
*MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE.

NOTE:

1. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
2. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.,
3. MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

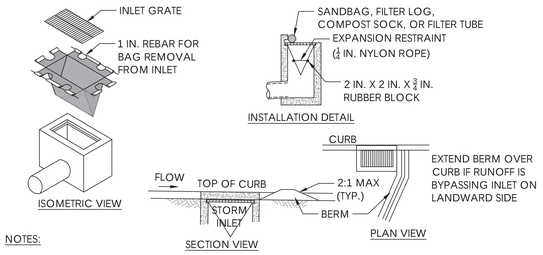
MAINTENANCE: ROCK CONSTRUCTION ENTRANCE SHALL BE USED TO REMOVE SEDIMENTS FROM WHEELS BEFORE ENTERING PUBLIC ACCESS AND TRAVEL WAYS AND THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.

1 / G-3 ROCK CONSTRUCTION ENTRANCE
TYPICAL — 1"=1'-0"



3 / G-3 TRENCH DRAIN OPENING PROTECTION
TYPICAL — NTS

NOTES:
1. FOR DEMO PLANS, SEE L-6.
2. FOR LANDSCAPE PLANS, SEE L-13, L-14, AND L-17.



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

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

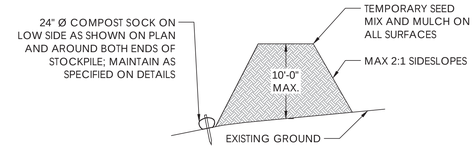
ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

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

2 / G-3 INLET PROTECTION
TYPICAL — 1"=1'-0"



MAINTENANCE:
1. TEMPORARILY STOCKPILE TOPSOIL OR EXCAVATED SOIL MATERIAL AS NEEDED AT LOCATIONS SHOWN FOR EACH PHASE OF CONSTRUCTION. EXCESS EXCAVATED MATERIAL SHALL BE PERMANANTLY REMOVED FROM THE SITE.
2. HEIGHT AND SIDESLOPES SHALL NOT EXCEED MAXIMUM VALUES SHOWN ON DETAIL.
3. INSTALL COMPOST SOCK PRIOR TO STOCKPILING OF MATERIAL. REPLACE ANY COMPOST SOCK REMOVED FOR VEHICULAR ACCESS AFTER EACH WORK DAY.
4. APPLY SEED AND MULCH WHEN PILE IS NOT SUBJECT TO VEHICULAR ACCESS FOR SEVEN DAYS OR MORE.

4 / G-3 SOIL STOCKPILE DETAIL
TYPICAL — NTS

STAMP:

REGISTERED PROFESSIONAL ENGINEER — JAMES WILLIAM ADAMS — NO. PE044049

100% CONSTRUCTION DOCUMENTS

NOTICE

PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 287, AS AMENDED, THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM AT 1–800–242–1776 AT LEAST 3 DAYS PRIOR TO EXCAVATION.

HIGHWAY DISTRICT NO. 2 WARD NO. 2
SURVEY DISTRICT NO. 2 DRAINAGE SHT. NO. 26 OUTFALL NO. D–63
ONE CALL SERIAL NO. 20131052917

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

FIND YOUR PATH — PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY
PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY
PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design
ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez CONSULTING
SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

NOTES AND EROSION & SEDIMENT CONTROL DETAILS

WECCACOE PLAYGROUND

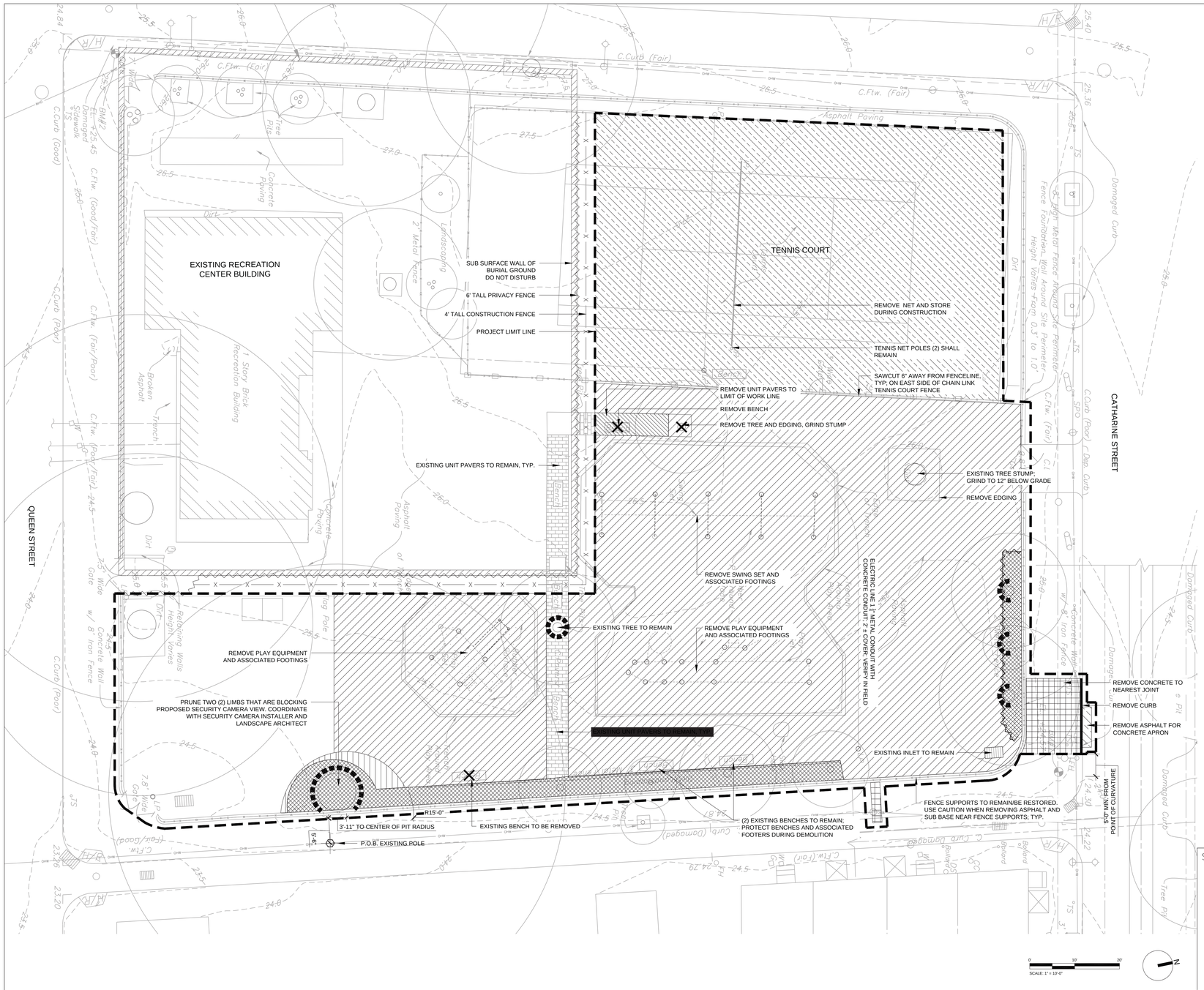
CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED ..... JAMES W. ADAMS, PE, PRINCIPAL ENGINEER, MELIORA DESIGN
APPROVED ..... DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES
APPROVED ..... WATER COMMISSIONER

WORK NO. S–50083–G
SHEET NO. G–3 OF 24 SHEETS

NO.	DATE	ISSUE

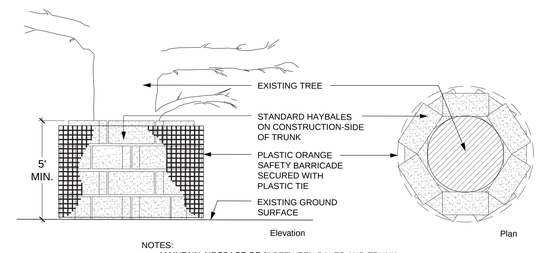
DRAWN BY	AMH/CEF	11/20/15
PROJECT ENGR.	JWA	
JAMES W. ADAMS, PE		11/20/15
SUPERVISOR		DATE



LEGEND

- PROJECT LIMIT LINE
- REMOVE PAVEMENT, SAFETY SURFACE, AND SUB-BASE TO ACCOMMODATE PROPOSED PAVING PROFILE
- REMOVE UNIT PAVERS
- TREE AND PLANT PROTECTION ZONE
- REMOVE CONCRETE AND SUB-BASE
- REMOVE ASPHALT AND SUBBASE TO 12" BELOW PROPOSED FINISHED GRADE
- PREP TENNIS COURT FOR RESURFACING
- POINT OF BEGINNING
- REMOVE BENCH
- REMOVE TREE AND GRIND STUMP TO 12" BELOW GRADE
- TREE TRUNK PROTECTION, SEE 1/IL-2
- FENCE AND EDGING TO BE REMOVED
- SUBSURFACE WALL - DO NOT DISTURB

NOTES:
1. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE INDICATED.
2. CONTRACTOR TO MARK OUT ALL SAW CUTTING EXTENTS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
3. TRUCK ACCESS IS PERMITTED FROM CATHERINE STREET.
4. CONTRACTOR TO PROTECT ALL EXISTING STRUCTURES, CURB AND PAVEMENT TO REMAIN.
5. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL UNLESS OTHERWISE NOTED.
6. ALL SITE PROTECTION MEASURES MUST BE IN PLACE PRIOR TO DEMOLITION



NOTES:
- MAINTAIN AIRSPACE OF 6" BETWEEN BALES AND TRUNK
- REPLACE BALES IF ON SITE MORE THAN 6 MONTHS
- PLACE BALES SUCH THAT PEDESTRIAN WALKWAYS ARE NOT INHIBITED, COORDINATE IN FIELD WITH LANDSCAPE ARCHITECT

1 / L-2 TREE TRUNK PROTECTION

1/4" = 1'-0"

STAMP:

PENNSYLVANIA LICENSED LANDSCAPE ARCHITECT — LEIGH ANN CAMPBELL — REGISTERED LANDSCAPE ARCHITECT

100% CONSTRUCTION DOCUMENTS

NOTICE

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HIGHWAY DISTRICT NO. _____ WARD NO. _____

SURVEY DISTRICT NO. _____ DRAINAGE SHT. NO. _____ OUTFALL NO. _____

ONE CALL SERIAL NO. _____

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

FIND YOUR PATH — PHILADELPHIA PARKS & RECREATION
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PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY
PRIME CONSULTANT
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SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

TREE PROTECTION AND DEMOLITION PLAN

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED _____ LEIGH ANN CAMPBELL, PLA, PHS

APPROVED _____ DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

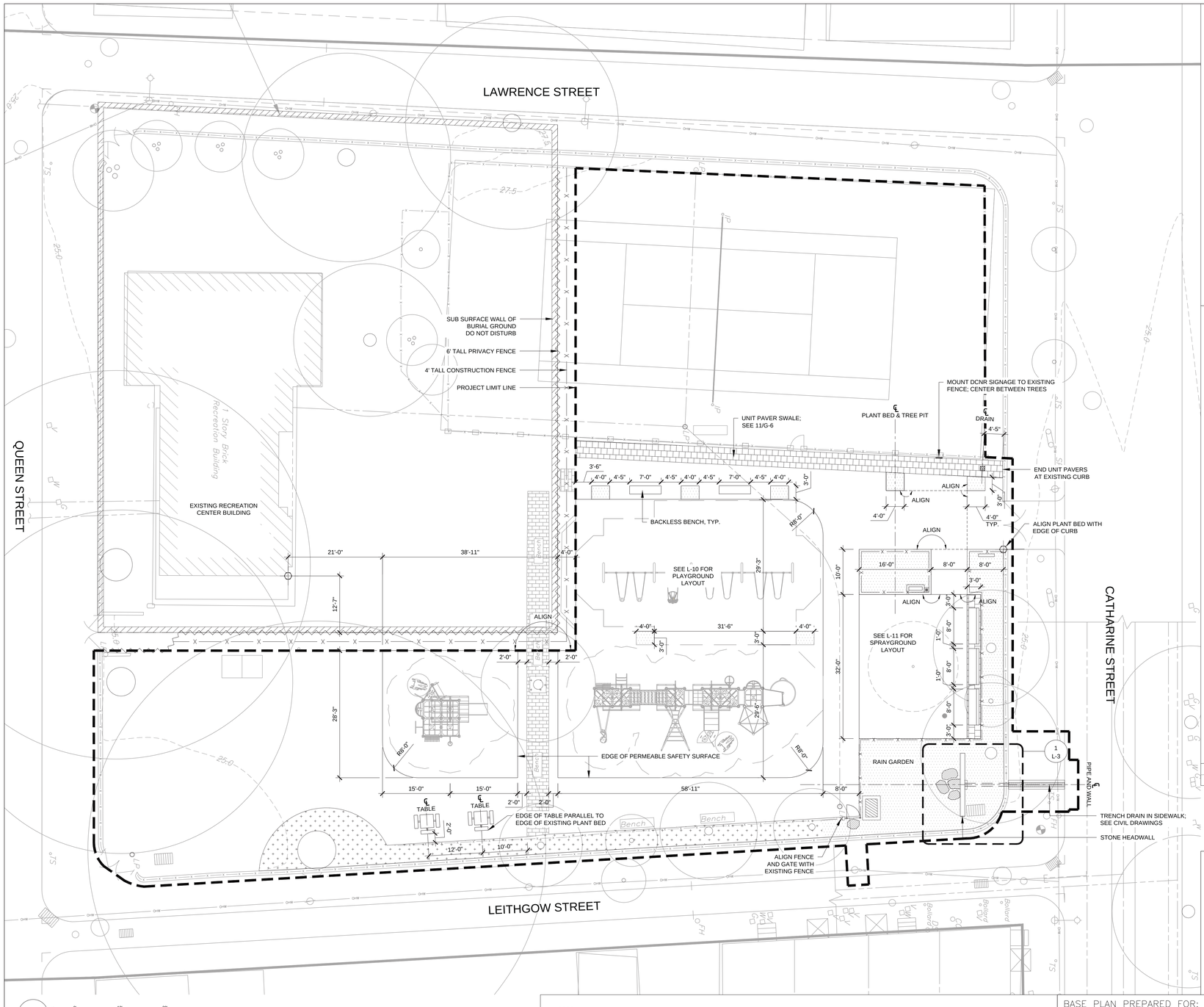
APPROVED _____ WATER COMMISSIONER

WORK NO. S-50083-G

SHEET NO. L-2 OF 24 SHEETS

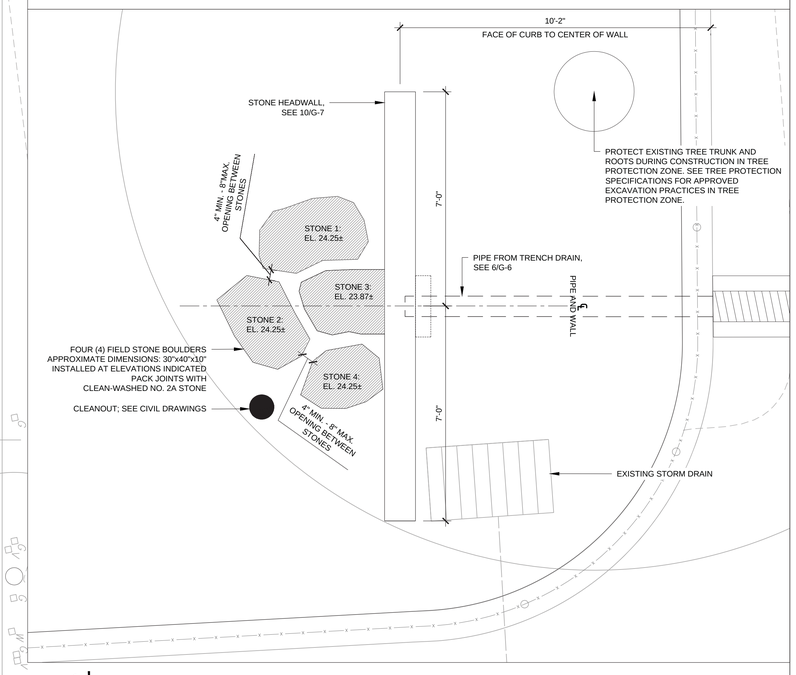
NO.	DATE	ISSUE

DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
SUPERVISOR		DATE



LEGEND

- PROJECT LIMIT LINE
- PROPOSED BENCH - BACKED
- PROPOSED BENCH - BACKLESS
- EXISTING BENCH TO REMAIN
- PROPOSED TREE
- EXISTING TREE TO REMAIN
- EXISTING FENCE TO REMAIN
- PROPOSED FENCE
- SUBSURFACE WALL - DO NOT DISTURB
- POINT OF BEGINNING
- UNIT PAVERS, SEE 1/L-4
- NEW PLANTING AREA, SEE L-8
- MULCH AREA



1 HEADWALL AND SPLASH BLOCK ENLARGEMENT
1/2" = 1'-0"

SCALE: 1" = 10'-0"

NOTES:

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK.
2. ALL CURVES ARE TANGENT UNLESS OTHERWISE NOTED.
3. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
4. DO NOT SCALE OFF DRAWINGS, USE DRAWING DIMENSIONS ONLY. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. BRING TO THE ATTENTION OF LANDSCAPE ARCHITECT ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS PRIOR TO THE BEGINNING OF WORK. FIELD CONDITION DISCREPANCIES SHALL NOT BE USED AS THE BASIS FOR CHANGE ORDER CLAIMS ONCE WORK HAS BEGUN.
5. UTILITIES DRAWN ARE BASED ON A SURVEY BY RODRIGUEZ CONSULTING DATED 7/31/13. CONTRACTOR SHALL VERIFY AND MARK ALL UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
6. STAKE OR OTHERWISE MARK IN FIELD ALL SITE IMPROVEMENTS INCLUDING PATHS, PAVEMENTS, SURFACES, AND LIGHT POLE LOCATIONS FOR VERIFICATION BY LANDCAPE ARCHITECHT PRIOR TO COMMENCEMENT OF WORK.
7. PRESERVE AND PROTECT ALL EXISTING STRUCTURES, FURNISHINGS, SURFACE MATERIALS, ABOVE AND BELOW - GRADE UTILITIES, FOOTINGS AND VEGETATION INDICATED TO REMAIN WITHIN AND ADJACENT TO LIMIT OF WORK DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.
8. THE EXISTENCE AND LOCATION OF EACH AND EVERY UNDERGROUND UTILITY IS NOT GUARANTEED AND UNDOCUMENTED CONDITIONS MAY EXIST. COORDINATE WITH LANDSCAPE ARCHITECT FOR LOCATIONS OF UTILITIES NOT SHOWN ON THE BASE DRAWING INCLUDING, BUT NOT LIMITED TO, HIGH VOLTAGE ELECTRIC, ABANDONED STEAM LINES, ABANDONED WATER LINES, TELEPHONE, CABLES, ETC. STAKE OUT LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK. ANY UTILITY THAT IS DAMAGED DURING SITE WORK OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
9. MAINTAIN VEHICULAR TRAFFIC FLOW TO AND AROUND THE SITE. MAINTAIN CLEARLY MARKED PEDESTRIAN ACCESS TO AREAS ON-SITE NOT AFFECTED BY CONSTRUCTION ACTIVITIES.
10. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY STRUCTURES AS REQUIRED TO MEET PROPOSED GRADES, INCLUDING DRAIN INLETS, MANHOLES AND LIGHT POLE BASES. CONTRACTOR SHALL MEET EXISTING GRADES AT ALL EDGES OF LIMIT OF WORK.
11. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY MEASURES TO PREVENT SOIL EROSION. APPROVED SOIL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE INSTALLED BEFORE SITE CLEANING AND SITE GRADING OPERATIONS BEGIN.

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY
PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY
PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design
ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez CONSULTING
SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

STAMP:

PENNSYLVANIA REGISTERED LANDSCAPE ARCHITECT LEIGH ANN CAMPBELL LICENSE NO. LA-002870

100% CONSTRUCTION DOCUMENTS

NOTICE

PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 287, AS AMENDED, THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776 AT LEAST 3 DAYS PRIOR TO EXCAVATION.

HIGHWAY DISTRICT NO. _____ WARD NO. _____

SURVEY DISTRICT NO. _____ DRAINAGE SHT. NO. _____ OUTFALL NO. _____

ONE CALL SERIAL NO. _____

GREEN INFRASTRUCTURE PROJECT

LAYOUT PLAN

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED ..... LEIGH ANN CAMPBELL, PLA, PHS

APPROVED ..... DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

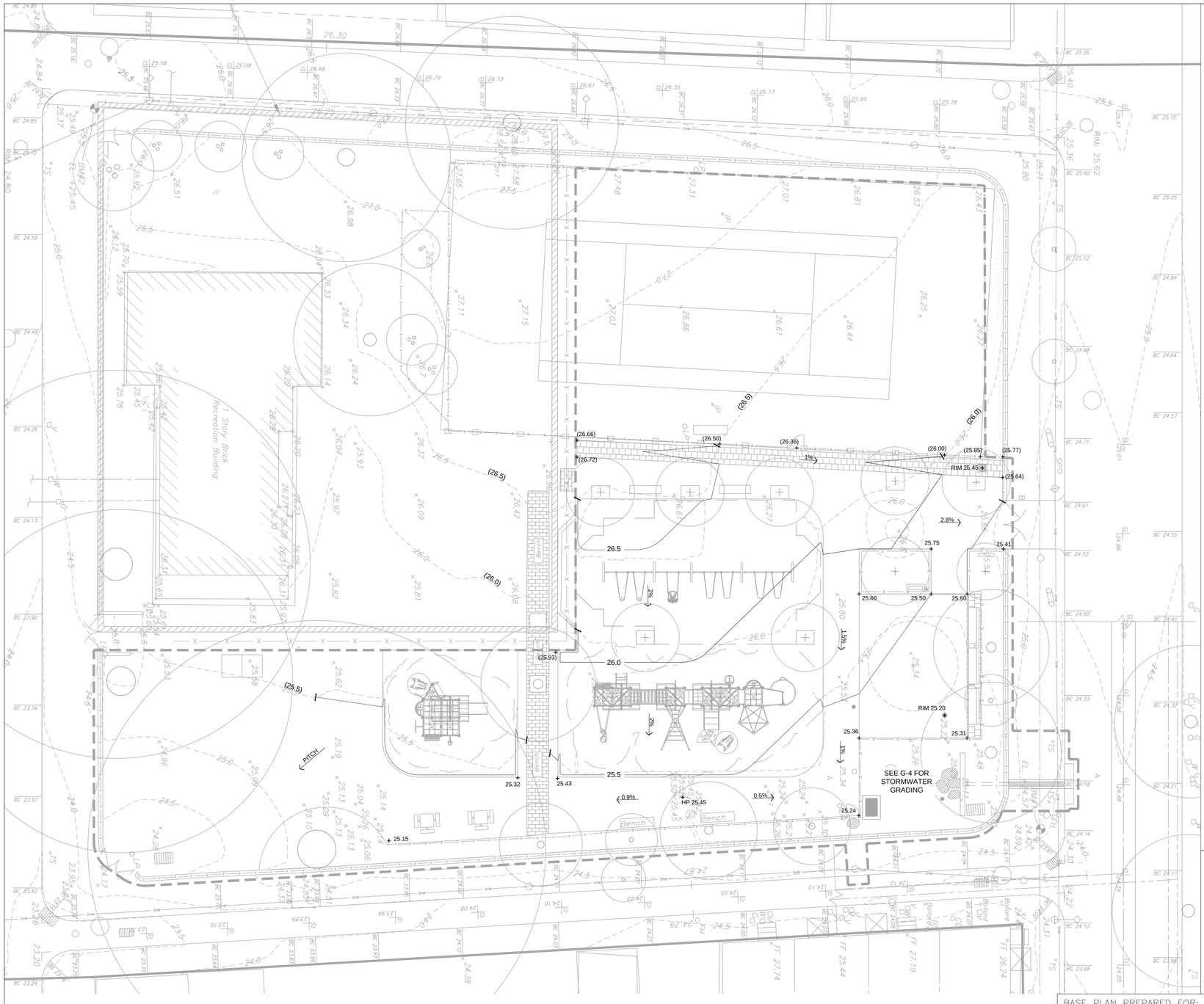
APPROVED ..... WATER COMMISSIONER

WORK NO. S-50083-G

SHEET NO. L-3 OF 24 SHEETS

NO.	DATE	ISSUE

DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
SUPERVISOR		DATE



LEGEND

▬ ▬ ▬ ▬	PROJECT LIMIT LINE
▨	SUBSURFACE WALL - DO NOT DISTURB
- - - - -	EXISTING CONTOURS
———	PROPOSED CONTOUR
+ (XX.XX)	EXISTING SPOT ELEVATION
+ XX.XX	PROPOSED SPOT ELEVATION
XX.X%	DIRECTION OF SURFACE DRAINAGE FLOW ROUTE
BC	BOTTOM OF CURB
BS	BOTTOM OF STEPS
BW	BOTTOM OF WALL
CB	CATCH BASIN
CO	CLEAN OUT
DI	DRAIN INLET
FF	FINISH FLOOR
FG	FINISHED GRADE
FS	FINISHED SURFACE
HP	HIGH POINT
INV	INVERT ELEVATION
MH	MANHOLE
RIM	RIM ELEVATION
TB	TOP OF BERM
TC	TOP OF CURB
TF	TOP OF FOOTING
TG	TOP OF GRATE
TP	TOP OF PAVING
TS	TOP OF STEPS
TW	TOP OF WALL

GRADING NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT. CONTRACTOR SHALL STAKE ALL ELEVATIONS TO BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE CONSTRUCTION.
2. ALL LINES AND GRADE WORK NOT PRESENTLY ESTABLISHED AT THE SITE SHALL BE LAID OUT BY A REGISTERED LAND SURVEYOR OR PROFESSIONAL CIVIL ENGINEER EMPLOYED BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR SHALL ESTABLISH PERMANENT BENCHMARKS AND BOUNDS AND REPLACE ANY WHICH ARE DESTROYED OR DISTURBED.
3. THE WORDS 'FINISHED GRADE' (F.G.) SHALL MEAN THE REQUIRED FINAL GRADE ELEVATIONS INDICATED ON THE DRAWINGS.
4. SPOT ELEVATIONS SHALL GOVERN OVER PROPOSED CONTOURS.
5. CONTRACTOR SHALL ENSURE CONSISTENT SLOPE BETWEEN SPOT ELEVATIONS.
6. AT RIDGE LINES, HIGH POINTS AND LOW POINTS, CONTRACTOR SHALL TRANSITION GRADE TO AVOID A POINT OR SHARP EDGE.
7. SEE CIVIL DRAWINGS FOR ALL AREA DRAIN LOCATIONS AND INVERT LOCATIONS.
8. ALL WORK PERFORMED IN A PUBLIC RIGHT-OF-WAY SHALL MEET THE REQUIREMENTS OF THE LOCAL MUNICIPALITY.
9. CONTRACTOR SHALL NOT PERFORM WORK OUTSIDE THE DESIGNATED PROJECT LIMIT LINE. IF FIELD CONDITIONS WARRANT OFF-SITE GRADING, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT BEFORE PROCEEDING.

N

0 10' 20'
SCALE: 1" = 10'-0"

STAMP:

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NOTICE

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SURVEY DISTRICT NO. _____ DRAINAGE SHT. NO. _____ OUTFALL NO. _____

ONE CALL SERIAL NO. _____

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY
PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY
PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design
ENGINEER
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PHOENIXVILLE, PA 19460

rodriguez CONSULTING
SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

GRADING PLAN

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM

LEITHGOW STREET TO LAWRENCE STREET

APPROVED _____ LEIGH ANN CAMPBELL, PLA, PHS

APPROVED _____ DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

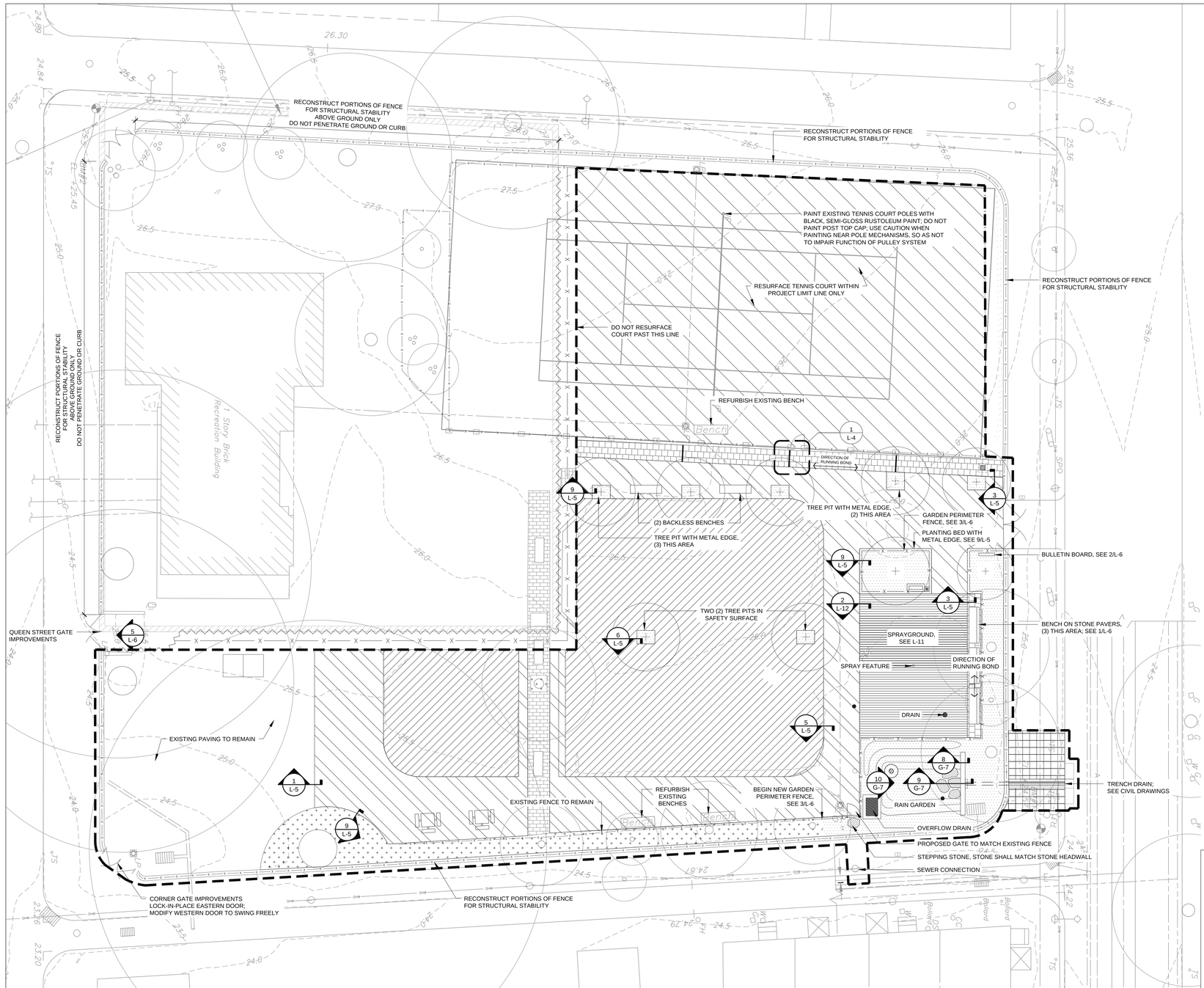
APPROVED _____ WATER COMMISSIONER

WORK NO. S-50083-G

SHEET NO. L-4.1 OF 24 SHEETS

NO.	DATE	ISSUE

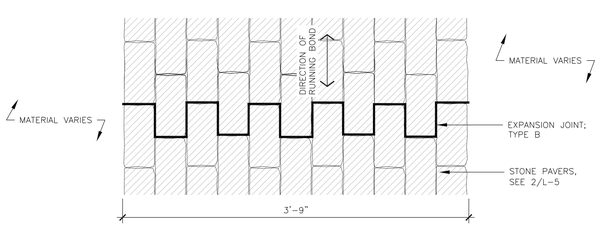
DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
SUPERVISOR		DATE



LEGEND

- PROJECT LIMIT LINE
- NEW ASPHALT, SEE 1/L-5
- NEW CONCRETE SIDEWALK, SEE 5/G-7
- UNIT PAVERS, SEE 1/L-4
- NEW PLANTING AREA, SEE L-8
- MULCH EXISTING PLANTING AREA
- SPRAYGROUND SURFACE, SEE 2/L-12
- REFINISH TENNIS COURT, SEE SPECS
- POURED IN PLACE SAFETY SURFACE, SEE 3/L-5
- BACKLESS WOOD BENCH, SEE 5/L-6
- BACKED BENCH, SEE 1/L-6
- PICNIC TABLE, SEE 4/L-6
- EXISTING LIGHT
- PROPOSED FENCE TO MATCH EXISTING
- EXISTING BENCH TO BE REFURBISHED
- PROPOSED TREE, SEE L-8
- EXISTING TREE

NOTES:
1. SEE DRAWINGS G-1 THROUGH G-7 FOR STORMWATER MANAGEMENT IMPROVEMENTS
2. SEE L-11 FOR SPRAY NOZZLE LAYOUT AND SPRAYGROUND SURFACE MATERIALS
3. PLUMBING ASSOCIATED WITH SPRAYGROUND NOT SHOWN ON THIS PLAN; SEE P-1
4. SEE L-11 FOR CONCRETE PAVEMENT CONTROL/ EXPANSION JOINTS ASSOCIATED WITH SPRAYGROUND



1 EXPANSION JOINT LAYOUT IN PAVER SWALE
1-1/2" = 1'-0"

STAMP:

100% CONSTRUCTION DOCUMENTS

NOTICE
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SURVEY DISTRICT NO. ____ DRAINAGE SHT. NO. ____ OUTFALL NO. ____
ONE CALL SERIAL NO. ____

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY
PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY
PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design
ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez CONSULTING
SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

MATERIALS AND SITE FURNISHINGS PLAN

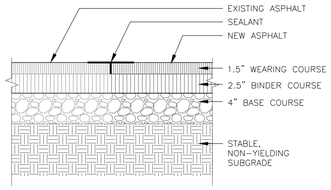
WECCACOE PLAYGROUND
CATHARINE STREET AND QUEEN STREET FROM
LEITHGOW STREET TO LAWRENCE STREET

APPROVED ____ LEIGH ANN CAMPBELL, PLA, PHS
APPROVED ____ DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES
APPROVED ____ WATER COMMISSIONER

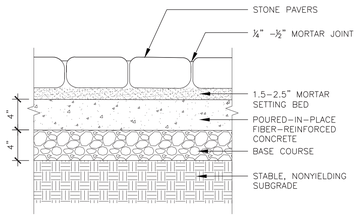
WORK NO. S-50083-G
SHEET NO. L-4 OF 24 SHEETS

NO.	DATE	ISSUE

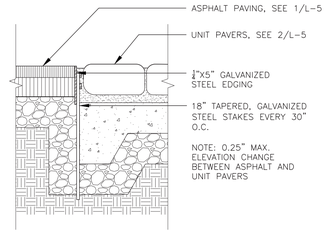
DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
SUPERVISOR		DATE



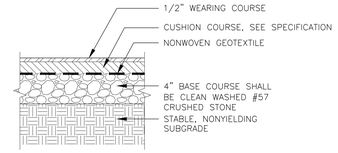
1 PROPOSED ASPHALT AT EXISTING ASPHALT
1-1/2" = 1'-0"



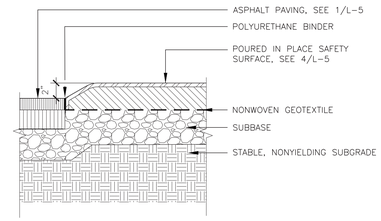
2 UNIT PAVERS
1-1/2" = 1'-0"



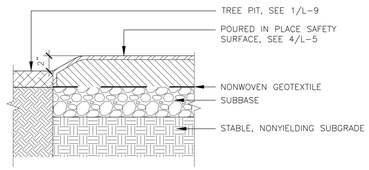
3 ASPHALT AT UNIT PAVERS
3" = 1'-0"



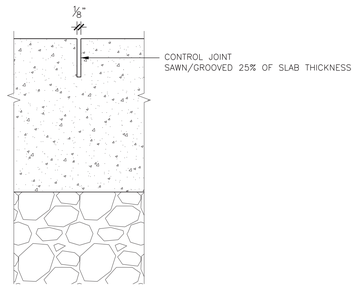
4 PLAYGROUND SAFETY SURFACE
1-1/2" = 1'-0"



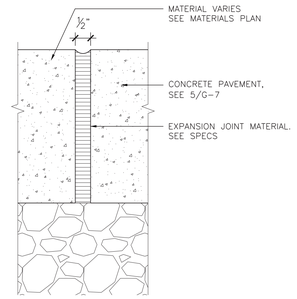
5 PLAYGROUND SAFETY SURFACE @ ASPHALT
1-1/2" = 1'-0"



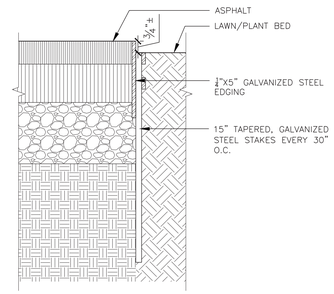
6 PLAYGROUND SAFETY SURFACE @ TREE PIT
1-1/2" = 1'-0"



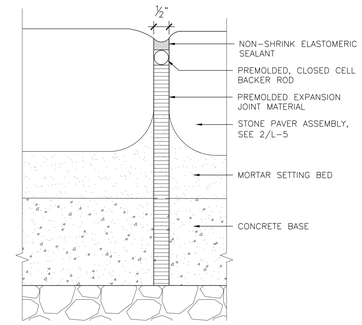
7 CONTROL JOINT
6" = 1'-0"



8 EXPANSION JOINT - TYPE A
6" = 1'-0"



9 METAL EDGE @ ASPHALT/PLANTING INTERFACE
3" = 1'-0"



10 EXPANSION JOINT - TYPE B
6" = 1'-0"

STAMP:

100% CONSTRUCTION DOCUMENTS

NOTICE

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HIGHWAY DISTRICT NO. _____ WARD NO. _____

SURVEY DISTRICT NO. _____ DRAINAGE SHT. NO. _____ OUTFALL NO. _____

ONE CALL SERIAL NO. _____

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION

PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER

PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY

PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY

PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design

ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez CONSULTING

SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC

ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

HARDSCAPE DETAILS

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM

LEITHGOW STREET TO LAWRENCE STREET

APPROVED _____
LEIGH ANN CAMPBELL, PLA, PHS

APPROVED _____
DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

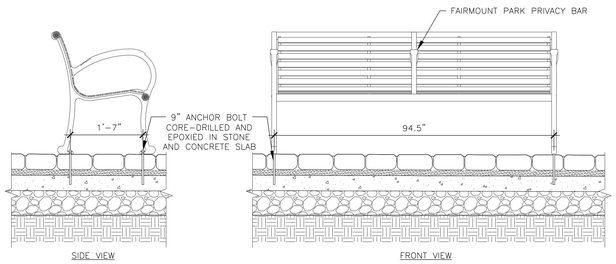
APPROVED _____
WATER COMMISSIONER

WORK NO. S-50083-G

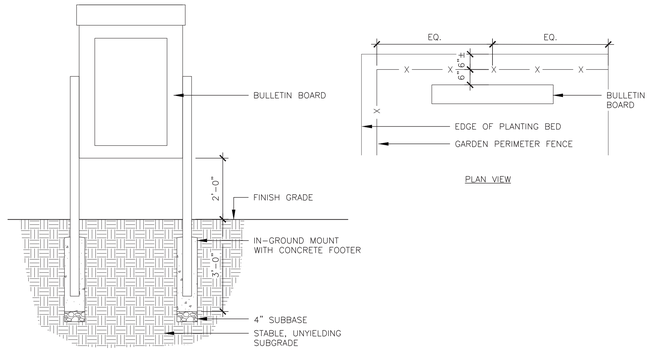
SHEET NO. L-5 OF 24 SHEETS

NO.	DATE	ISSUE

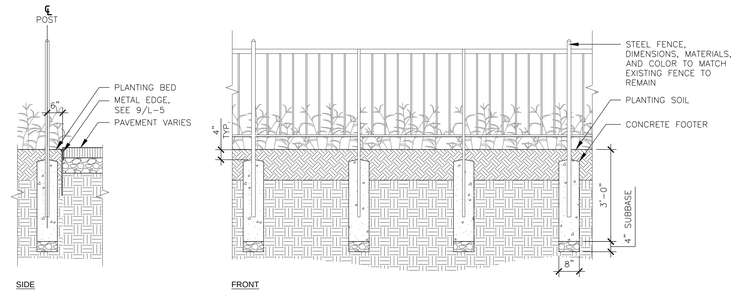
DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
SUPERVISOR		DATE



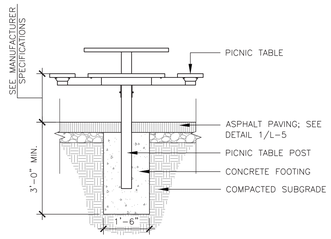
1 BACKED BENCH - SURFACE MOUNTING
1/2"=1'-0"



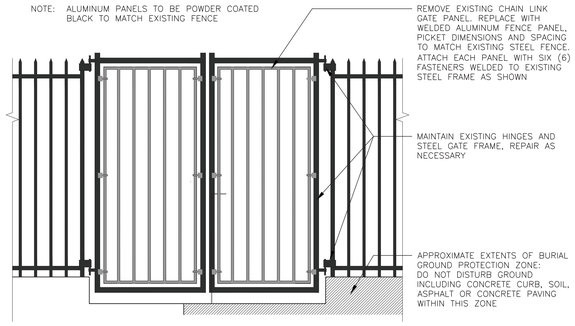
2 BULLETIN BOARD - IN GROUND MOUNT
1/2"=1'-0"



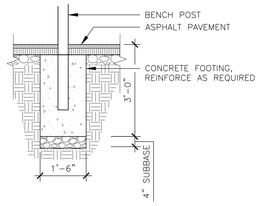
3 GARDEN PERIMETER FENCE
1/2"=1'-0"



4 PICNIC TABLE - MOUNTING
1/2"=1'-0"



5 QUEEN STREET GATE IMPROVEMENTS
1/2"=1'-0"



6 BACKLESS BENCH - EMBEDDED
1/2"=1'-0"

STAMP:

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HIGHWAY DISTRICT NO. _____ WARD NO. _____

SURVEY DISTRICT NO. _____ DRAINAGE SHT. NO. _____ OUTFALL NO. _____

ONE CALL SERIAL NO. _____

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION

PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER

PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

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PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY

PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design

ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez CONSULTING

SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC

ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

SITE FURNISHING DETAILS

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED _____
LEIGH ANN CAMPBELL, PLA, PHS

APPROVED _____
DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

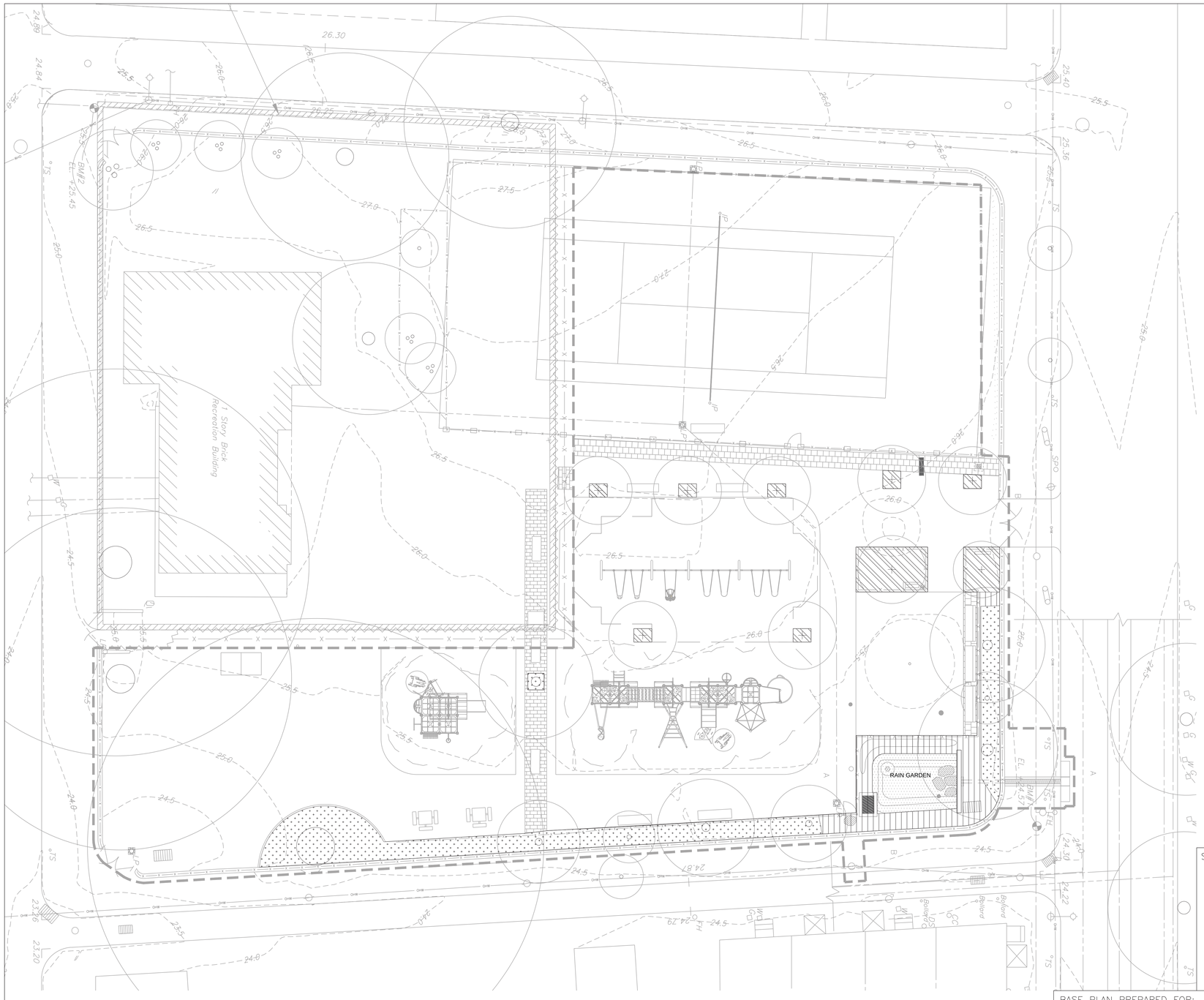
APPROVED _____
WATER COMMISSIONER

WORK NO. S-50083-G

SHEET NO. L-6 OF 24 SHEETS

NO.	DATE	ISSUE

DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
SUPERVISOR		DATE



LEGEND

- S1 TREE PLANTING SOIL PROFILE SEE 1/L-9
- S2 NEW PLANT BED SOIL PROFILE SEE 2/L-9
- S3 BIO-RETENTION SOIL PROFILE SEE SPECIFICATIONS
- S4 EXISTING PLANT BED SOIL PROFILE SEE SPECIFICATIONS
- BACKLESS WOOD BENCH
- BACKED BENCH
- PICNIC TABLE
- EXISTING LIGHT
- PROPOSED FENCE TO MATCH EXISTING
- Bench — EXISTING BENCH TO REMAIN
- PROPOSED TREE
- EXISTING TREE

N

0' 10' 20'
SCALE: 1" = 10'-0"

STAMP:

100% CONSTRUCTION DOCUMENTS

NOTICE

PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 287, AS AMENDED, THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776 AT LEAST 3 DAYS PRIOR TO EXCAVATION.

HIGHWAY DISTRICT NO. _____ WARD NO. _____

SURVEY DISTRICT NO. _____ DRAINAGE SHT. NO. _____ OUTFALL NO. _____

ONE CALL SERIAL NO. _____

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY
PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY
PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design
ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez consultants
SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

SOILS PLAN

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED _____
LEIGH ANN CAMPBELL, PLA, PHS

APPROVED _____
DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

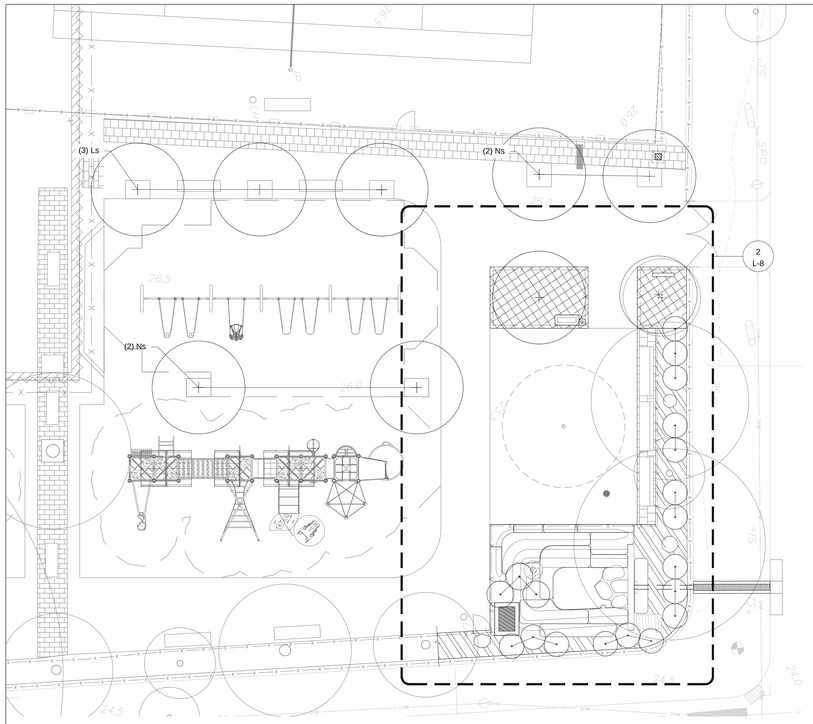
APPROVED _____
WATER COMMISSIONER

NO.	DATE	ISSUE

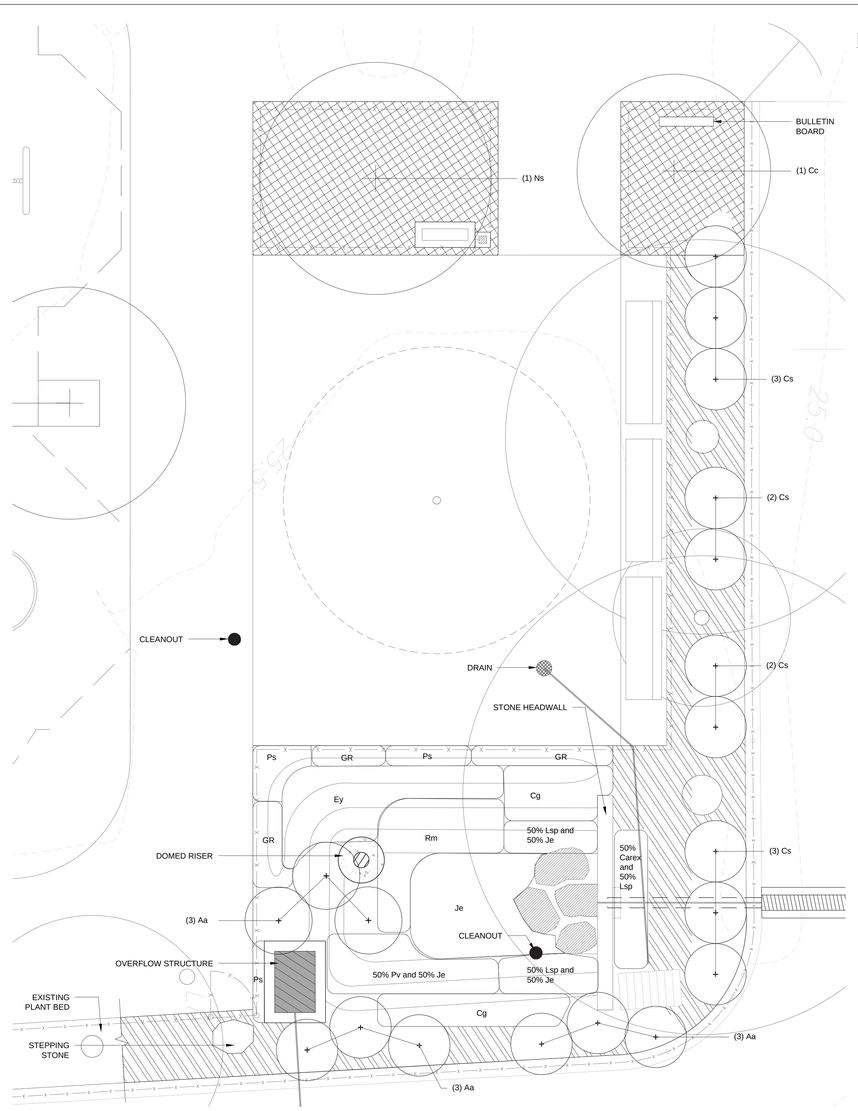
WORK NO. S-50083-G

SHEET NO. L-7 OF 24 SHEETS

DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
SUPERVISOR		DATE



1 PLANTING PLAN
1" = 10'-0"



2 SPRAYGROUND/RAIN GARDEN PLANTING PLAN
1/4" = 1'-0"

PLANTING NOTES

1. ALL AREAS NOT COVERED BY BUILDINGS OR PAVEMENT AND WHICH HAVE BEEN GRADED OR OTHERWISE DISTURBED SHALL BE TOPSOILED AND SEEDED, UNLESS SHOWN OTHERWISE.
2. ALL TREES OUTSIDE THE BUILDING AND PAVED AREAS SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION, UNLESS SPECIFICALLY DESIGNATED TO BE REMOVED. PRIOR TO REMOVAL, THE CONTRACTOR SHALL ARRANGE AN ON-SITE MEETING WITH THE LANDSCAPE ARCHITECT TO REVIEW THE CLEARING LIMIT LINES. VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO EXCAVATION OR PLANT PITS.
3. P.B. = PLANT BED. MULCH ALL PLANT BEDS TO A DEPTH OF 2". BEDS SHALL BE KEPT 3" MIN AWAY FROM TRUNK OF ALL TREES, SHRUBS, TREE FERNS, AND FOLIAGE OF ALL PERENNIALS.
4. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN IN THE DRAWINGS.
5. CONTRACTOR SHALL REMOVE ALL HARD LUMPS OF CLAY, STONES OVER 1" IN DIAMETER, AND ALL CONSTRUCTION DEBRIS INCLUDING GRAVEL, ROOTS, LIMBS AND OTHER DELETERIOUS MATTER WHICH WOULD BE HARMFUL, OR PREVENT PROPER ESTABLISHMENT AND/OR MAINTENANCE OF LAWN AND PLANTING AREAS.
6. ALL TREES SHALL CONFORM TO GUIDELINES ESTABLISHED BY "THE AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN (LATEST EDITION).
7. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING. TREES SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS TO ORIGINAL GRADE PRIOR TO DIGGING.
8. ALL PLANTS SHALL BE BALLED IN BURLAP OR CONTAINER GROWN UNLESS OTHERWISE NOTED IN THE PLANTING SCHEDULE.
9. ALL PLANTS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THEIR ARRIVAL ON THE SITE; LANDSCAPE ARCHITECT WILL BE GIVEN 3 DAYS ADVANCED NOTICE OF PLANTING DATE.
10. THE CONTRACTOR SHALL LOCATE AND VERIFY UTILITY LINE LOCATIONS PRIOR TO PLANTING AND REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
11. THE LAYOUT OF PLANTS IN THE FIELD IS TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.

LEGEND

- EXISTING TREE TO REMAIN
- PROPOSED TREE
- PROPOSED SHRUB
- PROPOSED GROUNDCOVER
- BOULDER/STEPPING STONE

PLANT SCHEDULE

Symbol	Qty	Common Name	Botanical Name	Spacing	Size
PERENNIALS					
Je	45	Common Rush	*Juncus effusus*	1'-6"	1 gallon
	116	Sedges	*50% Carex pensylvanica and 50% Carex eburnea*	1'-0"	1 gallon
Rm	18	Giant Coneflower	*Rudbeckia maxima*	1'-6"	1 gallon
	100	Hairy Alum Root	*Heuchera 'Autumn Bride'*	1'-6"	1 gallon
Pv	8	Obedient Plant	*Physostegia virginiana*	1'-6"	1 gallon
Ps	17	Creeping Phlox	*Phlox subulata*	1'-0"	1 gallon
GR	14	Wild Geranium	*Geranium maculatum*	1'-0"	1 gallon
Cg	22	Tickseed	*Coreopsis grandiflora*	1'-6"	1 gallon
Ey	21	Rattlesnake Master	*Eryngium yuccifolium*	1'-6"	1 gallon
Lsp	19	Gayfeather	*Liatris spicata*	1'-0"	1 gallon
SHRUBS					
Aa	9	Red Chokecherry	*Aronia arbutifolia 'Brilliantisima'*	4'-0"	3 gallon
Cs	10	Red Twig Dogwood	*Cornus sericea*	4'-0"	3 gallon
TREES					
Cc	1	Eastern Redbud	*Cercis canadensis*	see plans	2-2 $\frac{1}{2}$" cal.
Ns	5	Tupelo	*Nyssa sylvatica 'Wildfire'*	see plans	2-2 $\frac{1}{2}$" cal.
Ls	3	Sweet Gum (non-fruiting)	*Liquidambar styraciflua 'Hapdell'*	see plans	2-2 $\frac{1}{2}$" cal.

STAMP:

COMMONWEALTH OF PENNSYLVANIA
LEIGH ANN CAMPBELL
REGISTERED LANDSCAPE ARCHITECT

100% CONSTRUCTION DOCUMENTS

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GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
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PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

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PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

PLANTING PLAN

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED _____
LEIGH ANN CAMPBELL, PLA, PHS

APPROVED _____
DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

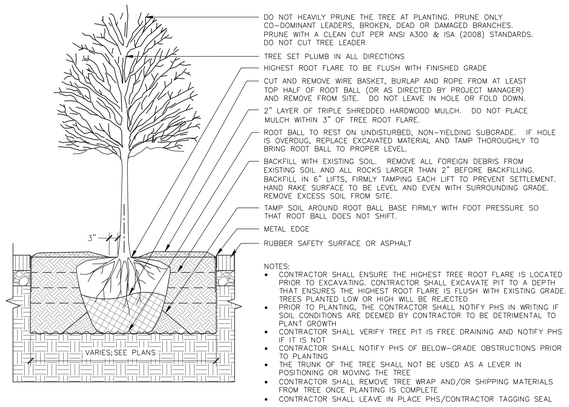
APPROVED _____
WATER COMMISSIONER

WORK NO. S-50083-G

SHEET NO. L-8 OF 24 SHEETS

NO.	DATE	ISSUE

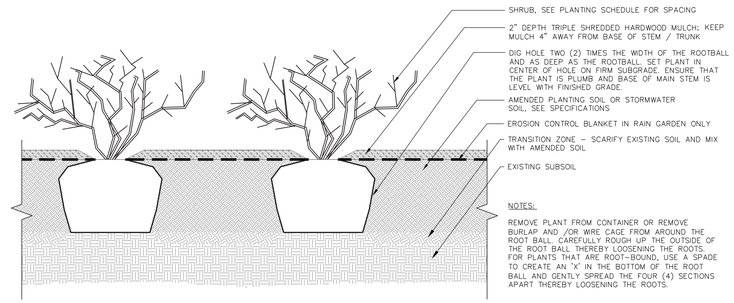
DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
SUPERVISOR		DATE



NOTES:

- CONTRACTOR SHALL ENSURE THE HIGHEST TREE ROOT FLARE IS LOCATED PRIOR TO EXCAVATING. CONTRACTOR SHALL EXCAVATE PIT TO A DEPTH THAT ENSURES THE HIGHEST ROOT FLARE IS FLUSH WITH EXISTING GRADE. TREES PLANTED LOW OR HIGH WILL BE REJECTED
- PRIOR TO PLANTING, THE CONTRACTOR SHALL NOTIFY PHS IN WRITING IF SOIL CONDITIONS ARE DEEMED BY CONTRACTOR TO BE DETRIMENTAL TO PLANT GROWTH
- CONTRACTOR SHALL VERIFY TREE PIT IS FREE DRAINING AND NOTIFY PHS IF IT IS NOT
- CONTRACTOR SHALL NOTIFY PHS OF BELOW-GRADE OBSTRUCTIONS PRIOR TO PLANTING
- THE TRUNK OF THE TREE SHALL NOT BE USED AS A LEVER IN POSITIONING OR MOVING THE TREE
- CONTRACTOR SHALL REMOVE TREE WRAP AND/OR SHIPPING MATERIALS FROM TREE ONCE PLANTING IS COMPLETE
- CONTRACTOR SHALL LEAVE IN PLACE PHS/CONTRACTOR TAGGING SEAL

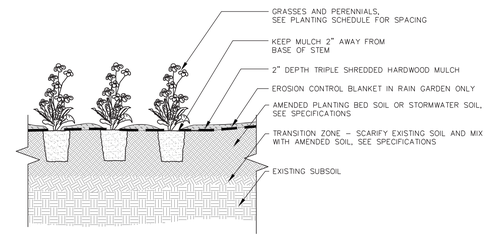
1 TREE PLANTING
1/2" = 1'-0"



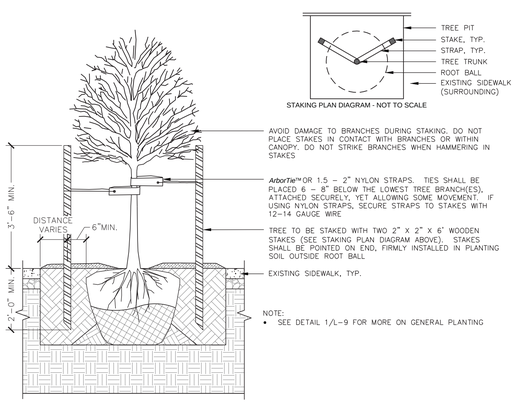
NOTES:

REMOVE PLANT FROM CONTAINER OR REMOVE BURLAP AND /OR WIRE CAGE FROM AROUND THE ROOT BALL. CAREFULLY ROUGH UP THE OUTSIDE OF THE ROOT BALL THEREBY LOOSENING THE ROOTS. FOR PLANTS THAT ARE ROOT-BOUND, USE A SPADE TO CREATE AN "X" IN THE BOTTOM OF THE ROOT BALL AND GENTLY SPREAD THE FOUR (4) SECTIONS APART THEREBY LOOSENING THE ROOTS.

2 SHRUB PLANTING
3/4" = 1'-0"



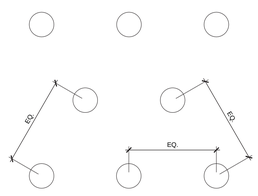
3 PERENNIAL PLANTING
3/4" = 1'-0"



NOTE:

- SEE DETAIL 1/L-9 FOR MORE ON GENERAL PLANTING

4 TREE STAKING
1/2" = 1'-0"



5 PERENNIAL SPACING
N.T.S.

STAMP:

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GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION

PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER

PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY

PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY

PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design

ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez CONSULTING

SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC.

ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

PLANTING DETAILS

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED _____
LEIGH ANN CAMPBELL, PLA, PHS

APPROVED _____
DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

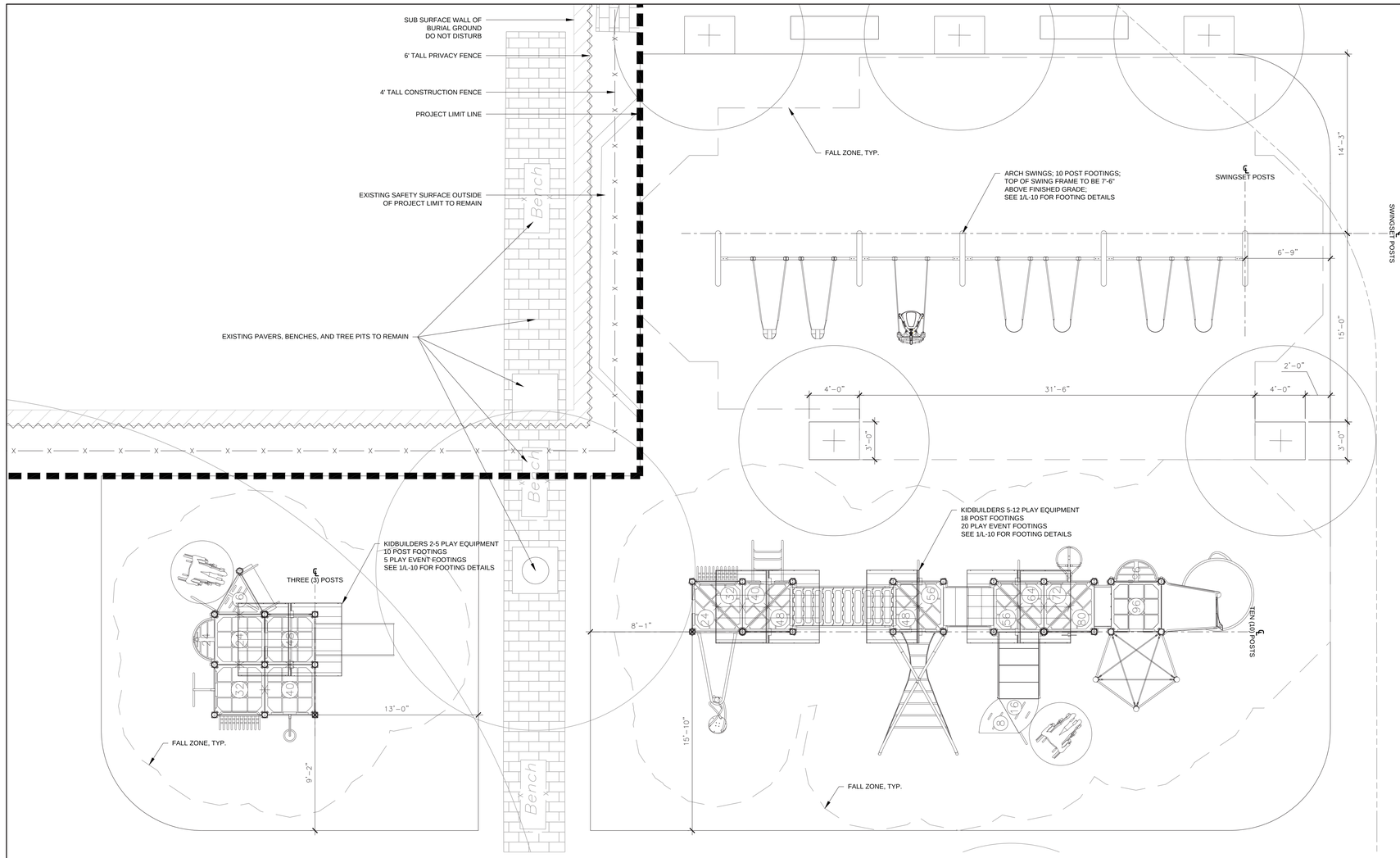
APPROVED _____
WATER COMMISSIONER

NO.	DATE	ISSUE

WORK NO. S-50083-G

SHEET NO. L-9 OF 24 SHEETS

DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
SUPERVISOR		DATE



LEGEND

- PROJECT LIMIT LINE
- PROPOSED BENCH - BACKED
- PROPOSED BENCH - BACKLESS
- EXISTING BENCH TO REMAIN
- PROPOSED TREE
- EXISTING TREE TO REMAIN
- EXISTING FENCE TO REMAIN
- PROPOSED FENCE
- SUBSURFACE WALL - DO NOT DISTURB

NOTES:

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK.
2. ALL CURVES ARE TANGENT UNLESS OTHERWISE NOTED.
3. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
4. DO NOT SCALE OFF DRAWINGS, USE DRAWING DIMENSIONS ONLY. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. BRING TO THE ATTENTION OF LANDSCAPE ARCHITECT ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS PRIOR TO THE BEGINNING OF WORK. FIELD CONDITION DISCREPANCIES SHALL NOT BE USED AS THE BASIS FOR CHANGE ORDER CLAIMS ONCE WORK HAS BEGUN.
5. UTILITIES DRAWN ARE BASED ON A SURVEY BY RODRIGUEZ CONSULTING DATED 7/31/13. CONTRACTOR SHALL VERIFY AND MARK ALL UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
6. STAKE OR OTHERWISE MARK IN FIELD ALL SITE IMPROVEMENTS INCLUDING PATHS, PAVEMENTS, SURFACES, AND LIGHT POLE LOCATIONS FOR VERIFICATION BY LANDCAPE ARCHITECHT PRIOR TO COMMENCEMENT OF WORK.
7. PRESERVE AND PROTECT ALL EXISTING STRUCTURES, FURNISHINGS, SURFACE MATERIALS, ABOVE AND BELOW - GRADE UTILITIES, FOOTINGS AND VEGETATION INDICATED TO REMAIN WITHIN AND ADJACENT TO LIMIT OF WORK DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.
8. THE EXISTENCE AND LOCATION OF EACH AND EVERY UNDERGROUND UTILITY IS NOT GUARANTEED AND UNDOCUMENTED CONDITIONS MAY EXIST. COORDINATE WITH LANDSCAPE ARCHITECT FOR LOCATIONS OF UTILITIES NOT SHOWN ON THE BASE DRAWING INCLUDING, BUT NOT LIMITED TO, HIGH VOLTAGE ELECTRIC, ABANDONED STEAM LINES, ABANDONED WATER LINES, TELEPHONE, CABLES, ETC. STAKE OUT LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK. ANY UTILITY THAT IS DAMAGED DURING SITE WORK OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
9. MAINTAIN VEHICULAR TRAFFIC FLOW TO AND AROUND THE SITE. MAINTAIN CLEARLY MARKED PEDESTRIAN ACCESS TO AREAS ON-SITE NOT AFFECTED BY CONSTRUCTION ACTIVITIES.
10. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY STRUCTURES AS REQUIRED TO MEET PROPOSED GRADES, INCLUDING DRAIN INLETS, MANHOLES AND LIGHT POLE BASES. CONTRACTOR SHALL MEET EXISTING GRADES AT ALL EDGES OF LIMIT OF WORK.
11. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY MEASURES TO PREVENT SOIL EROSION. APPROVED SOIL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE INSTALLED BEFORE SITE CLEANING AND SITE GRADING OPERATIONS BEGIN.

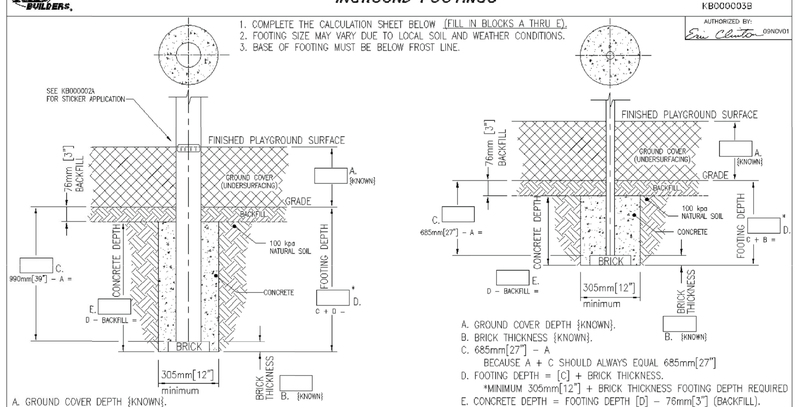
SCALE: 1/4" = 1'-0"

INGROUND FOOTINGS

200106580
KB000003B

AUTHORIZED BY: Eric Clinton 09NOV01

1. COMPLETE THE CALCULATION SHEET BELOW (FILL IN BLOCKS A THRU E).
2. FOOTING SIZE MAY VARY DUE TO LOCAL SOIL AND WEATHER CONDITIONS.
3. BASE OF FOOTING MUST BE BELOW FROST LINE.



A. GROUND COVER DEPTH {KNOWN}.
B. BRICK THICKNESS {KNOWN}.
C. 990mm[39"] – A BECAUSE A + C SHOULD ALWAYS EQUAL 990mm[39"]
D. FOOTING DEPTH = [C] + BRICK THICKNESS.
*MINIMUM 610mm[24"] + BRICK THICKNESS FOOTING DEPTH REQUIRED
E. CONCRETE DEPTH = FOOTING DEPTH [D] – 76mm[3"] (BACKFILL).

KB POST FOOTING - INGROUND

A. GROUND COVER DEPTH {KNOWN}.
B. BRICK THICKNESS {KNOWN}.
C. 685mm[27"] – A
BECAUSE A + C SHOULD ALWAYS EQUAL 685mm[27"]
D. FOOTING DEPTH = [C] + BRICK THICKNESS.
*MINIMUM 305mm[12"] + BRICK THICKNESS FOOTING DEPTH REQUIRED
E. CONCRETE DEPTH = FOOTING DEPTH [D] – 76mm[3"] (BACKFILL).

KB PLAYEVENT FOOTING - INGROUND

HOW MUCH CONCRETE?
VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

$= 0.067\ M^3 \times \frac{\text{CONCRETE DEPTH (mm)}}{915} \times$ No. OF FOOTING HOLES $= M^3$

$= 0.087\ Yard^3 \times \frac{\text{CONCRETE DEPTH (IN)}}{36} \times$ No. OF FOOTING HOLES $= Yard^3$

NOTES: – TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27
= 94 lbs OF CONCRETE = 1 CUBIC FOOT.

1 PLAYGROUND FOOTINGS
NTS

STAMP:

PENNSYLVANIA STATE BOARD OF LANDSCAPE ARCHITECTURE — LEIGH ANN CAMPBELL — REGISTERED LANDSCAPE ARCHITECT

100% CONSTRUCTION DOCUMENTS

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SURVEY DISTRICT NO. _____ DRAINAGE SHT. NO. _____ OUTFALL NO. _____

ONE CALL SERIAL NO. _____

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

FIND YOUR PATH — PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
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PLAYGROUND PLAN

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED _____ LEIGH ANN CAMPBELL, PLA, PHS

APPROVED _____ DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

APPROVED _____ WATER COMMISSIONER

WORK NO. S–50083–G

SHEET NO. L–10 OF 24 SHEETS

NO.	DATE	ISSUE

DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
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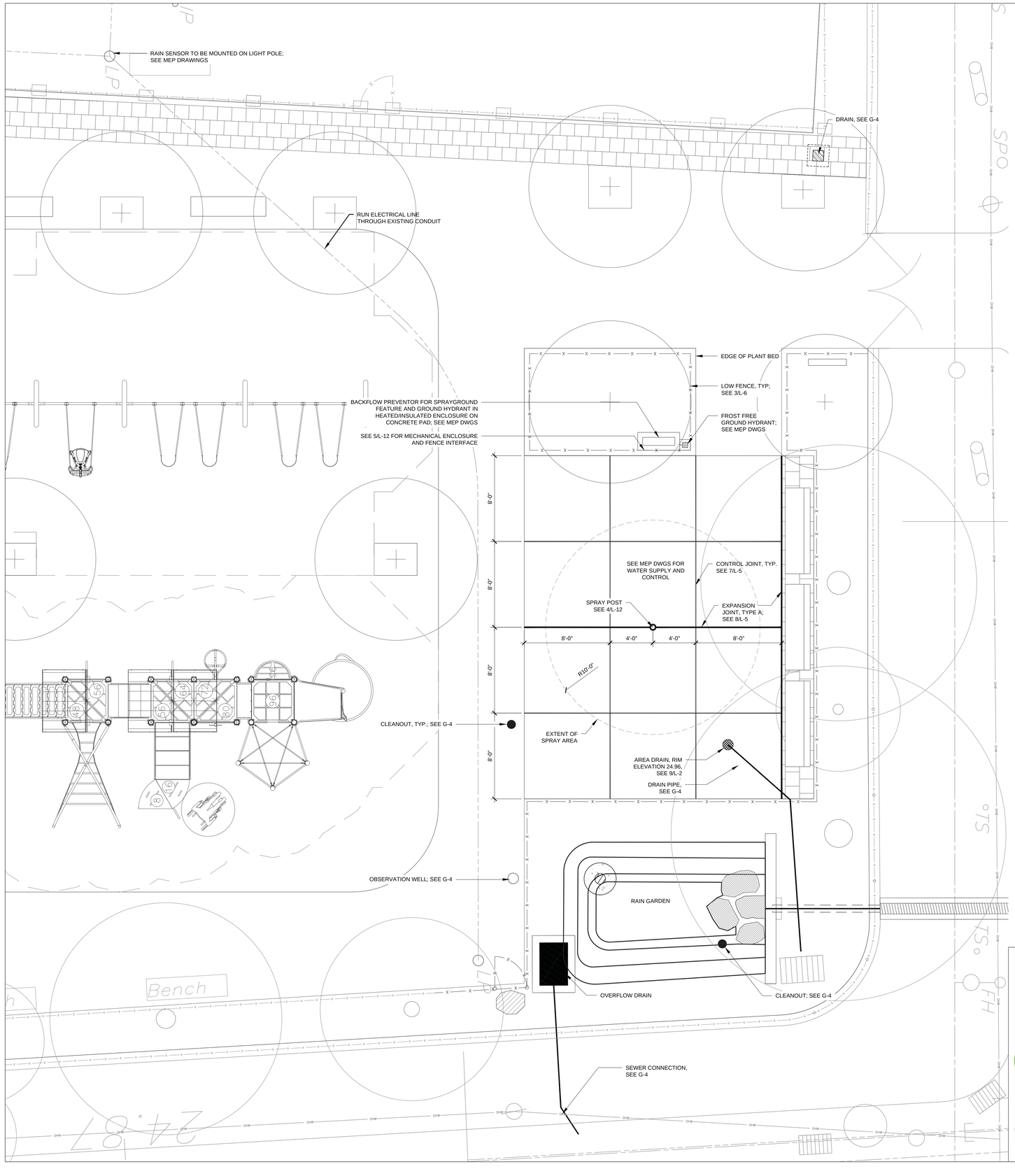

LEGEND

- PROJECT LIMIT LINE
- PROPOSED BENCH - BACKED
- PROPOSED BENCH - BACKLESS
- Bench — EXISTING BENCH TO REMAIN
- PROPOSED TREE
- EXISTING TREE TO REMAIN
- EXISTING FENCE TO REMAIN
- PROPOSED FENCE
- SUBSURFACE WALL - DO NOT DISTURB

N

STAMP:

PENNSYLVANIA LEIGH ANN CAMPBELL REGISTERED LANDSCAPE ARCHITECT LA-002750

100% CONSTRUCTION DOCUMENTS

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BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION — FIND YOUR PATH

PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER — EST. 1801

PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY

PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY

PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design

ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez consulting inc

SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC

ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

SPRAYGROUND PLAN

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED _____ LEIGH ANN CAMPBELL, PLA, PHS

APPROVED _____ DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

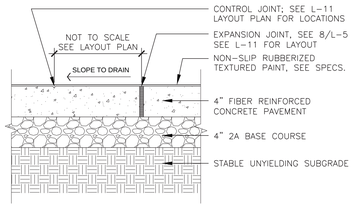
APPROVED _____ WATER COMMISSIONER

WORK NO. S-50083-G

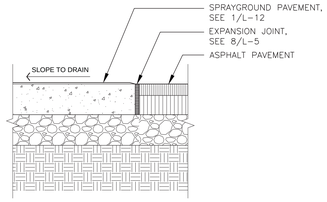
SHEET NO. L-11 OF 24 SHEETS

NO.	DATE	ISSUE

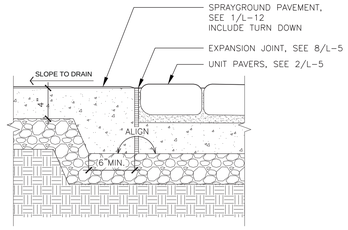
DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
SUPERVISOR		DATE



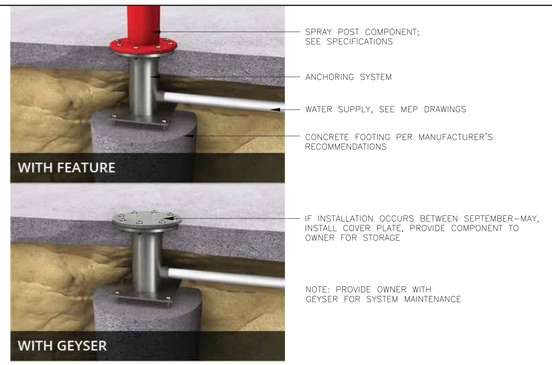
1 SPRAYGROUND SAFETY SURFACE
1-1/2" = 1'0"



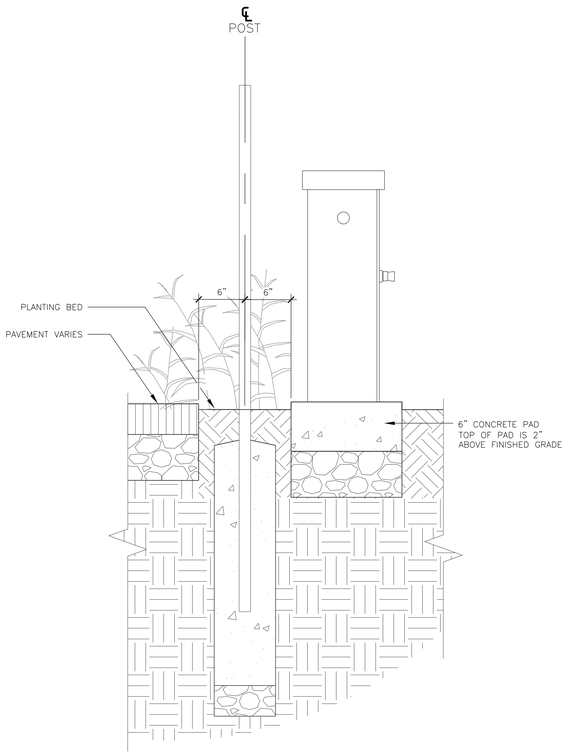
2 SPRAYGROUND SAFETY SURFACE @ ASPHALT
1-1/2" = 1'0"



3 SPRAYGROUND SAFETY SURFACE @ UNIT PAVERS
1-1/2" = 1'0"



4 SPRAY POST COMPONENT FOOTING
1-1/2" = 1'0"



5 SPRAYGROUND MECHANICAL ENCLOSURE AND FENCE INTERFACE
1-1/2" = 1'0"

STAMP:

100% CONSTRUCTION DOCUMENTS

NOTICE

PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 287, AS AMENDED, THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776 AT LEAST 3 DAYS PRIOR TO EXCAVATION.

HIGHWAY DISTRICT NO. _____ WARD NO. _____

SURVEY DISTRICT NO. _____ DRAINAGE SHT. NO. _____ OUTFALL NO. _____

ONE CALL SERIAL NO. _____

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY
PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY
PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design
ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez CONSULTING
SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

SPRAYGROUND DETAILS

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM

LEITHGOW STREET TO LAWRENCE STREET

APPROVED _____
LEIGH ANN CAMPBELL, PLA, PHS

APPROVED _____
DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

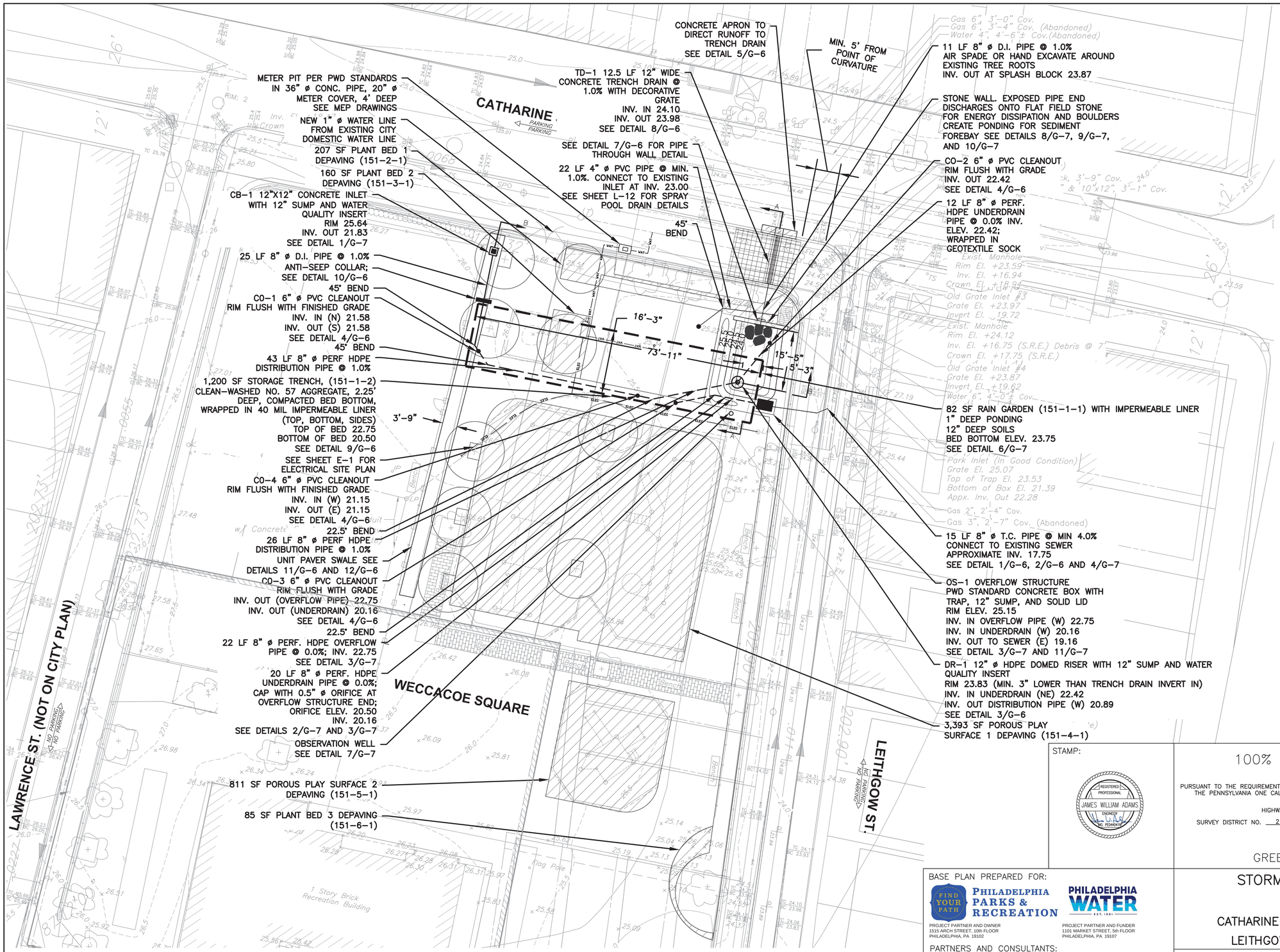
APPROVED _____
WATER COMMISSIONER

WORK NO. S-50083-G

SHEET NO. L-12 OF 24 SHEETS

NO.	DATE	ISSUE

DRAWN BY	JM/SD	11/20/15
PROJECT PLA	LAC	
LEIGH ANN CAMPBELL, PLA, PHS		11/20/15
SUPERVISOR		DATE



NOTES:
1. FOR GENERAL NOTES, SEE G-3.
2. FOR PROFILES/ SECTIONS, SEE G-5.
3. FOR ADDITIONAL DETAILS, SEE G6-G7.
4. FOR SPRAY GROUND, POROUS PLAY SURFACE, AND PLANT BED DETAILS, SEE L-SERIES.

10 0 10 20
1 INCH = 10 FEET

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- CLEANOUT
- OBSERVATION WELL
- DOMED RISER
- PWD STANDARD CONCRETE BOX WITH SOLID LID
- 12" x 12" CONCRETE INLET
- CONCRETE APRON
- SOLID PIPE
- PERF. HDPE PIPE
- STORAGE TRENCH
- WATER LINE
- ELECTRIC LINE
- ANTI-SEEP COLLAR
- TRENCH DRAIN
- UNIT PAVER SWALE
- PLANTING BED
- POROUS RUBBER PLAY SURFACE/DEPAVING
- CONCRETE CURB AND SIDEWALK REPLACEMENT
- PROPOSED TREE
- EXISTING TREE

STAMP:

REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
NO. PE046416-E

100% CONSTRUCTION DOCUMENTS

NOTICE

PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 287, AS AMENDED, THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776 AT LEAST 3 DAYS PRIOR TO EXCAVATION.

HIGHWAY DISTRICT NO. 2 WARD NO. 2
SURVEY DISTRICT NO. 2 DRAINAGE SHT. NO. 26 OUTFALL NO. D-63
ONE CALL SERIAL NO. 20131052917

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY
PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY
PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design
ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez CONSULTING
SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

STORMWATER AND GRADING PLAN

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED ..... JAMES W. ADAMS, PE, PRINCIPAL ENGINEER, MELIORA DESIGN

APPROVED ..... DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

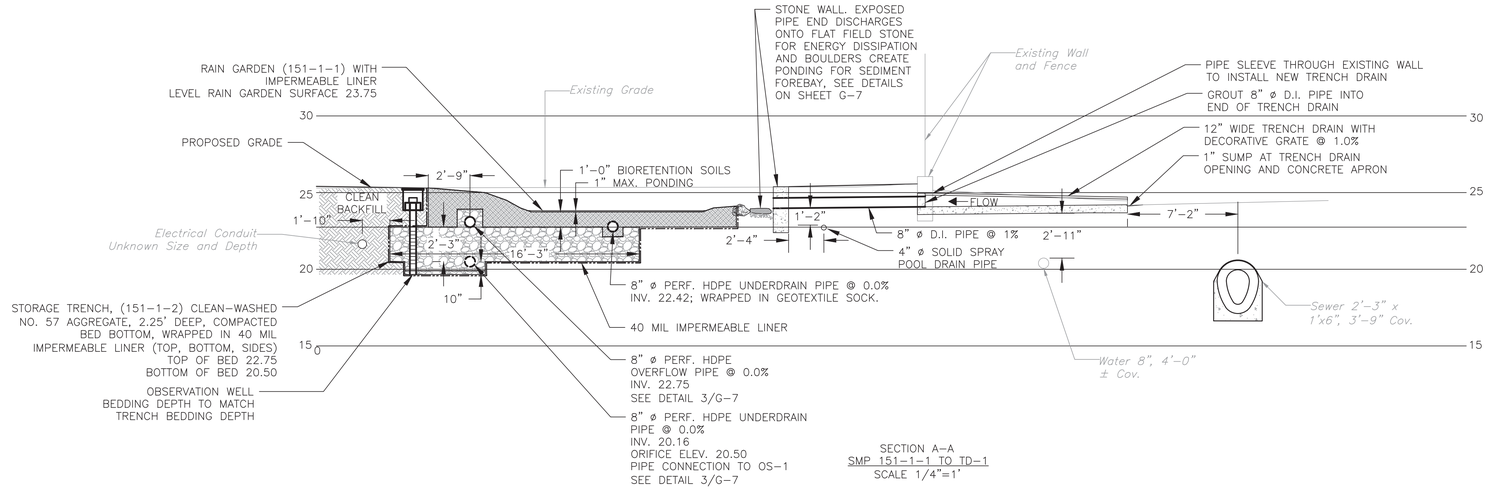
APPROVED ..... WATER COMMISSIONER

WORK NO. S-50083-G

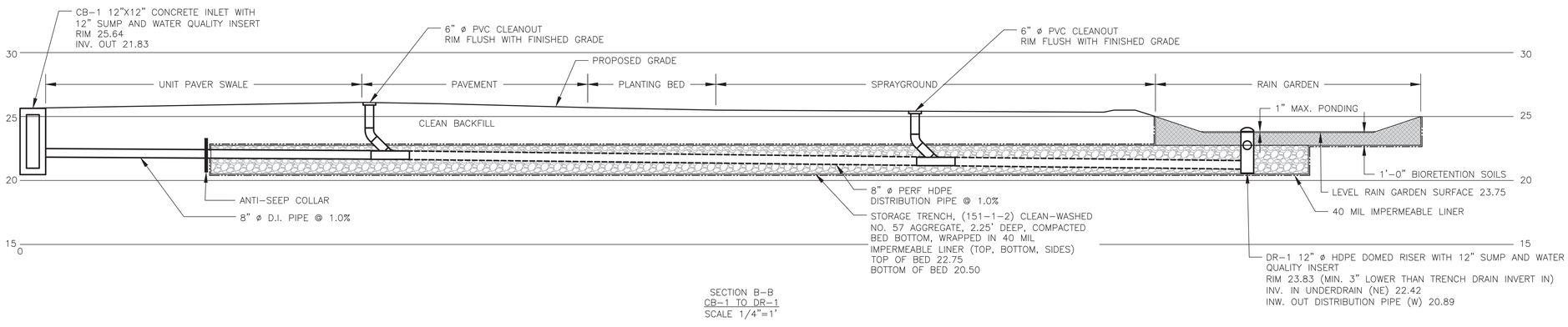
SHEET NO. G-4 OF 24 SHEETS

NO.	DATE	ISSUE

DRAWN BY	AMH/CEF	11/20/15
PROJECT ENGR.	JWA	
JAMES W. ADAMS, PE		11/20/15
SUPERVISOR		DATE



SECTION A-A
SMP 151-1-1 TO TD-1
SCALE 1/4"=1'



SECTION B-B
CB-1 TO DR-1
SCALE 1/4"=1'

STAMP:

REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
NO. PE044016

100% CONSTRUCTION DOCUMENTS

NOTICE

PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 287, AS AMENDED, THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776 AT LEAST 3 DAYS PRIOR TO EXCAVATION.

HIGHWAY DISTRICT NO. 2 WARD NO. 2

SURVEY DISTRICT NO. 2 DRAINAGE SHT. NO. 26 OUTFALL NO. D-63

ONE CALL SERIAL NO. 20131052917

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

FIND YOUR PATH PHILADELPHIA PARKS & RECREATION

PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER

PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY

PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY

PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design

ENGINEER
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PHOENIXVILLE, PA 19460

rodriguez CONSULTING

SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC

ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

STORMWATER SECTIONS

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED ..... JAMES W. ADAMS, PE, PRINCIPAL ENGINEER, MELIORA DESIGN

APPROVED ..... DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

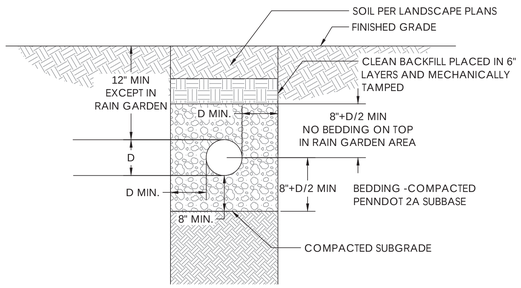
APPROVED ..... WATER COMMISSIONER

NO.	DATE	ISSUE

WORK NO. S-50083-G

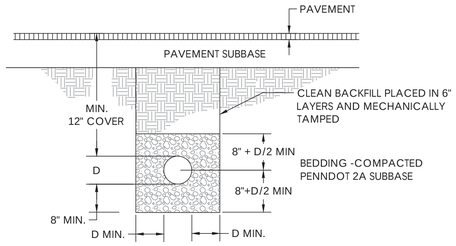
SHEET NO. G-5 OF 24 SHEETS

DRAWN BY	AMH/CEF	11/20/15
PROJECT ENGR.	JWA	
JAMES W. ADAMS, PE SUPERVISOR		11/20/15 DATE



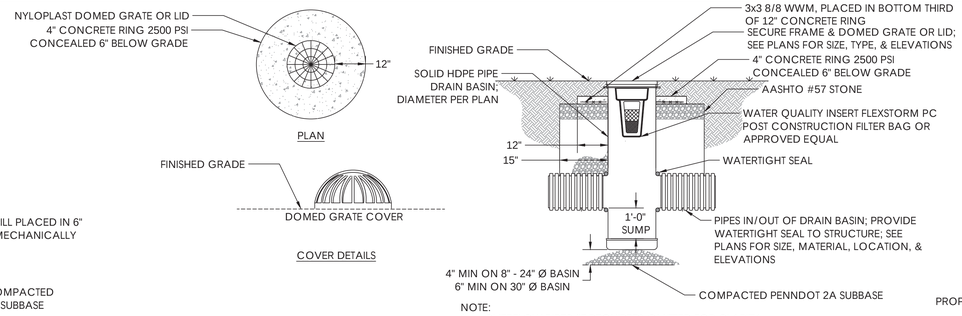
1 G-6 TYPICAL PIPE BEDDING IN UNPAVED AREAS

NTS



2 G-6 TYPICAL PIPE BEDDING IN PAVED AREAS

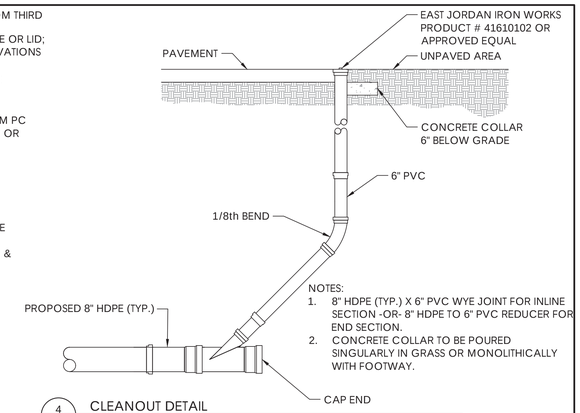
NTS



NOTE:
1. OVERFLOW PIPES (IF REQUIRED) OMITTED FOR CLARITY.
2. GRATE INLET SKIMMER BASKET REQUIRED IN DOMED RISERS.
3. SECURE COVER TO HDPE DOMED RISER/DRAIN BASIN WITH NYLOPLAST ADJUSTABLE LOCKING KIT MODEL #123DOMELOCK OR APPROVED EQUAL.
4. COVERS SHALL BE LOCKABLE.

3 G-6 HDPE DOMED RISER

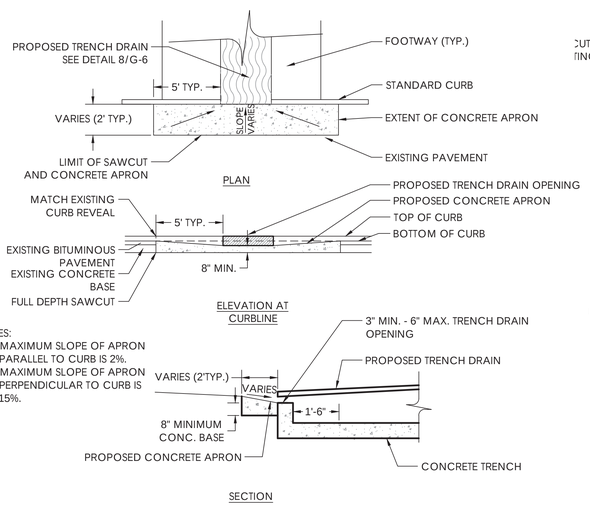
NTS



NOTES:
1. 8" HDPE (TYP.) X 6" PVC WYE JOINT FOR INLINE SECTION -OR- 8" HDPE TO 6" PVC REDUCER FOR END SECTION.
2. CONCRETE COLLAR TO BE POURED SINGULARLY IN GRASS OR MONOLITHICALLY WITH FOOTWAY.

4 G-6 CLEANOUT DETAIL

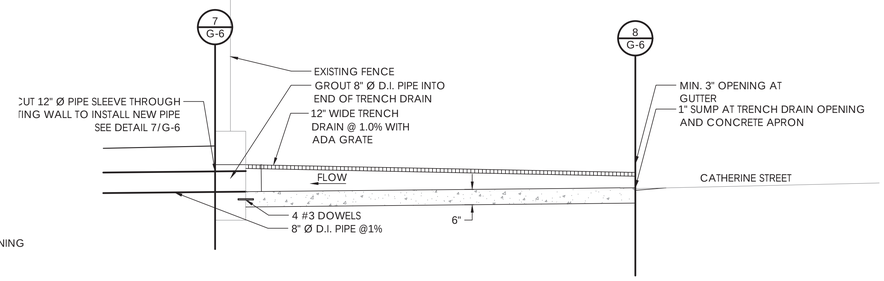
NTS



NOTES:
1. MAXIMUM SLOPE OF APRON PARALLEL TO CURB IS 2%.
2. MAXIMUM SLOPE OF APRON PERPENDICULAR TO CURB IS 15%.

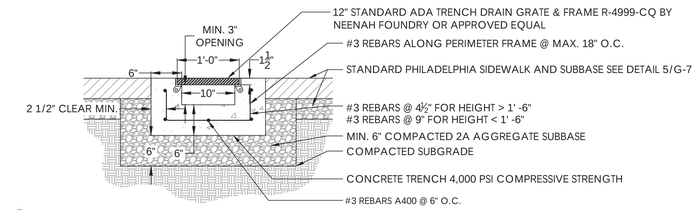
5 G-6 CONCRETE APRON AT TRENCH DRAIN

NTS



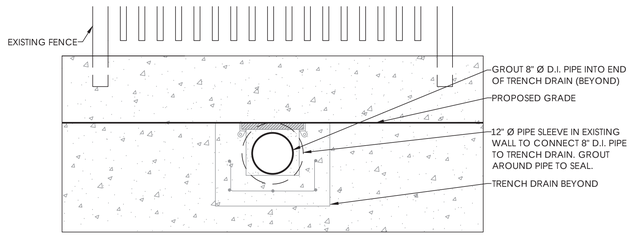
6 G-6 TRENCH DRAIN SECTION

1"=2'-0"



8 G-6 TRENCH DRAIN SECTION NEAR GUTTER

1"=1'-0"

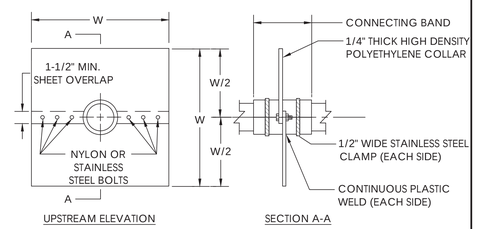


7 G-6 TRENCH DRAIN SECTION AT EXISTING WALL

1"=1'-0"

9 G-6 TYPICAL STORAGE TRENCH SECTION

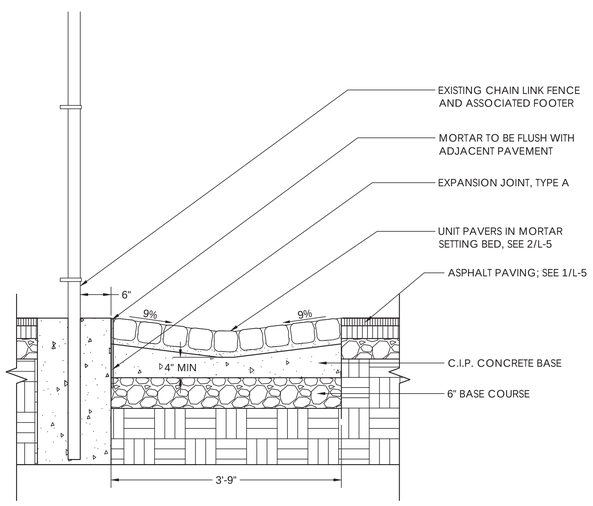
1"=2'-0"



NOTES:
1. CONNECTING BAND SHALL BE SEALED AT BOTH ENDS WITH NON-SHRINK GROUT.
2. COLLAR MATERIAL SHALL BE RIGID POLYETHYLENE SHEET.
3. STAINLESS STEEL SHALL BE GRADE 304 OR BETTER.
4. DIMENSION "W" SHALL BE 3 TIMES THE DIAMETER OF THE INSERSECTING PIPE.
5. WHERE FINISHED GRADE PROHIBITS FULL DEPTH ON ANTI-SEEP COLLAR, TRIM TOP TO TOP OF BEDDING.

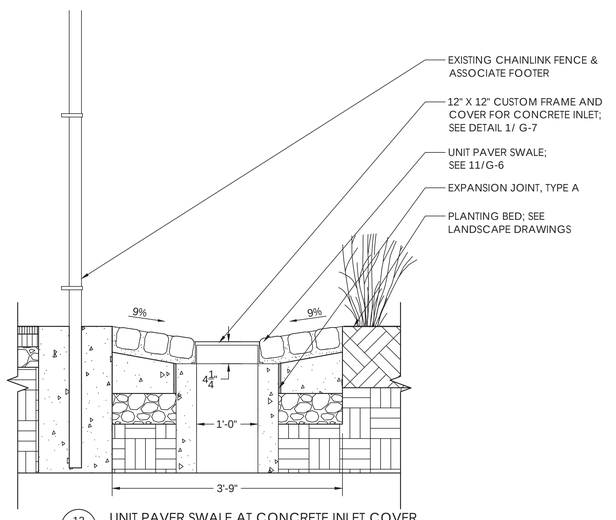
10 G-6 2-PIECE ANTI-SEEP COLLAR DETAIL

NTS



11 G-6 UNIT PAVER SWALE

1"=1'-0"



12 G-6 UNIT PAVER SWALE AT CONCRETE INLET COVER

1"=1'-0"

STAMP:

REGISTERED PROFESSIONAL
JAMES WILLIAM ADAMS
ENGINEER
NO. PE048418-E

100% CONSTRUCTION DOCUMENTS

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SURVEY DISTRICT NO. 2 DRAINAGE SHT. NO. 26 OUTFALL NO. D-63

ONE CALL SERIAL NO. 20131052917

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

FIND YOUR PATH PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
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PARTNERS AND CONSULTANTS:

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SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

STORMWATER DETAILS

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED ..... JAMES W. ADAMS, PE, PRINCIPAL ENGINEER, MELIORA DESIGN

APPROVED ..... DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

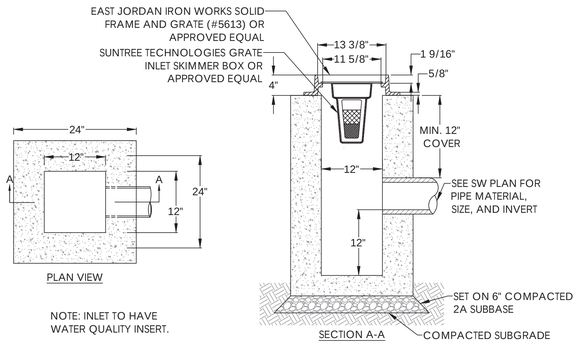
APPROVED ..... WATER COMMISSIONER

WORK NO. S-50083-G

SHEET NO. G-6 OF 24 SHEETS

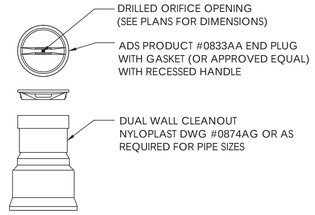
NO.	DATE	ISSUE

DRAWN BY	AMH/CEF	11/20/15
PROJECT ENGR.	JWA	
JAMES W. ADAMS, PE SUPERVISOR		11/20/15 DATE



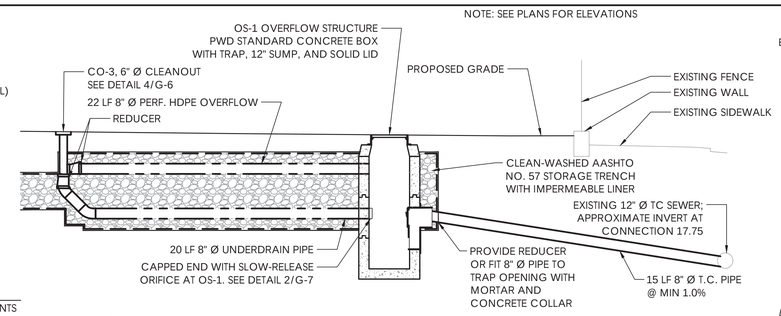
1 G-7 CONCRETE INLET

NTS



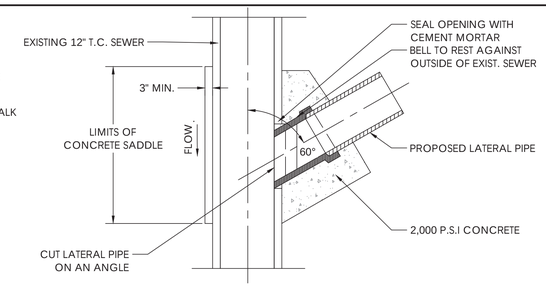
2 G-7 SLOW RELEASE ORIFICE

NTS



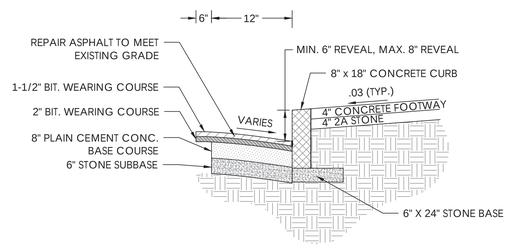
3 G-7 UNDERDRAIN AND OVERDRAIN DETAIL

NTS



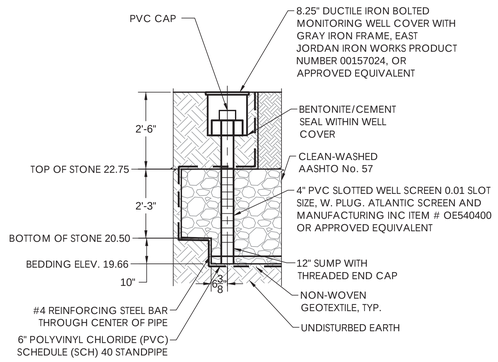
4 G-7 SEWER CONNECTION

NTS



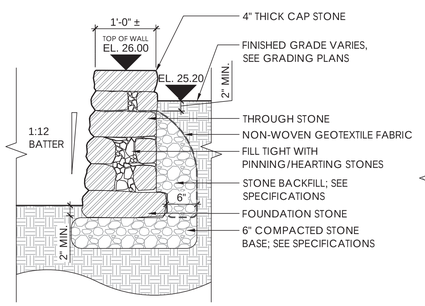
5 G-7 STREET, CURB, AND SIDEWALK DETAIL

PHILADELPHIA STANDARD NTS



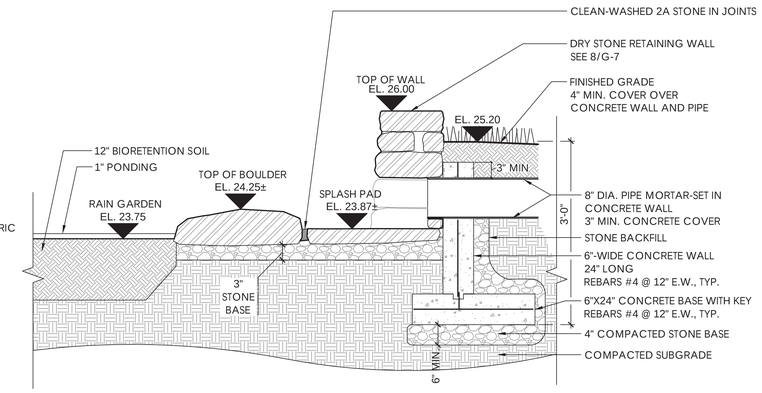
7 G-7 OBSERVATION WELL

NTS



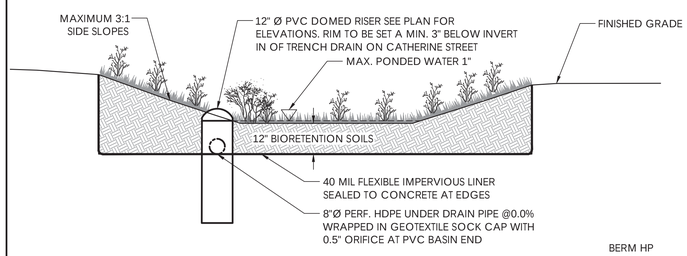
8 G-7 DRY STONE RETAINING WALL

1" = 1'-0"



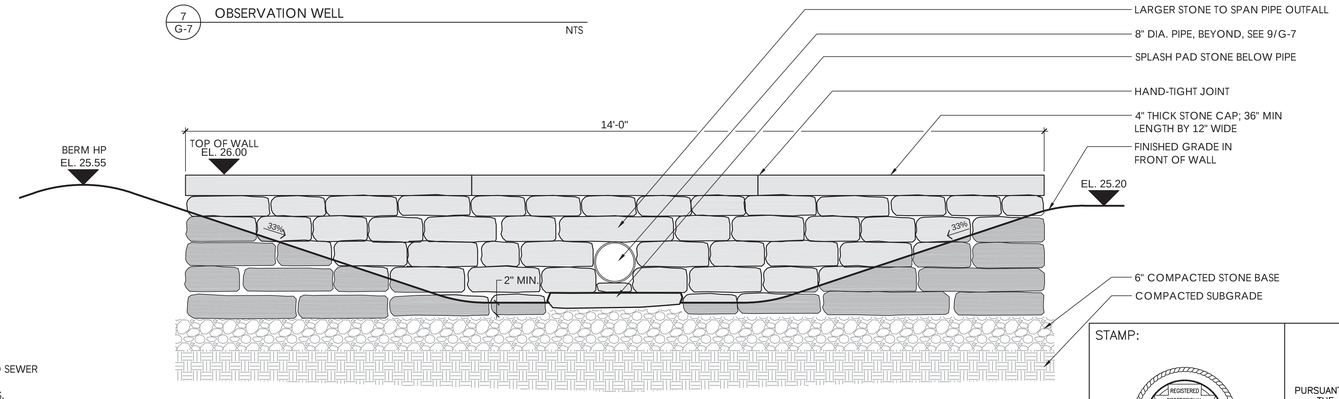
9 G-7 PIPE OUTFALL AT STONE WALL

1" -1'-0"



6 G-7 TYPICAL RAIN GARDEN SECTION

1" = 1'-0"

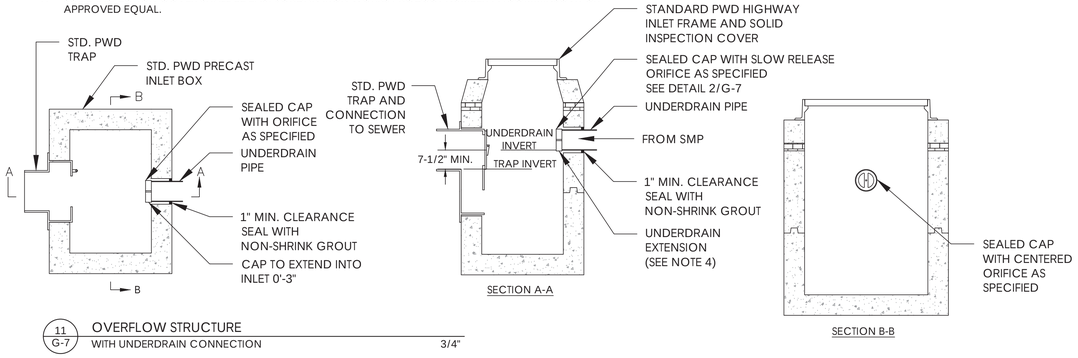


10 G-7 STONE WALL ELEVATION

1" = 1'-0"

NOTES:

1. ALL BOXES ARE 4' LENGTH, UNLESS NOTED OTHERWISE ON THE PLANS.
2. ALL CONCRETE COMPONENTS, INLET GRATE AND FRAME, INLET TRAP, AND CONNECTION TO SEWER SHALL BE PWD STANDARD CONSTRUCTION.
3. HIGHWAY INLET DEPICTED; DESIGN IS GENERALLY APPLICABLE TO ALL PWD STANDARD INLETS.
4. THIS INLET HAS A SEWER CONNECTION AND AN UNDERDRAIN ONLY FROM A STORMWATER SYSTEM (SMP).
5. TOTAL EXTENSION OF UNDERDRAIN AND CAP ASSEMBLY INTO INLET TO BE 0'-3" FROM INLET WALL TO END OF CAP
6. ALL WALLS SHALL BE 8" THICK AND 3,500 PSI CONCRETE.
7. SOLID INSPECTION COVER SHALL BE EAST JORDAN IRON WORKS PRODUCT NUMBER PACOMMINSCVR OR APPROVED EQUAL.



11 G-7 OVERFLOW STRUCTURE WITH UNDERDRAIN CONNECTION

3/4"

STAMP:

REGISTERED PROFESSIONAL JAMES WILLIAM ADAMS ENGINEER NO. PE044018-E

100% CONSTRUCTION DOCUMENTS

NOTICE

PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 287, AS AMENDED, THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM AT 1–800–242–1776 AT LEAST 3 DAYS PRIOR TO EXCAVATION.

HIGHWAY DISTRICT NO. 2 WARD NO. 2

SURVEY DISTRICT NO. 2 DRAINAGE SHT. NO. 26 OUTFALL NO. D–63

ONE CALL SERIAL NO. 20131052917

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION — FIND YOUR PATH

PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER

PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY

PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

FAIRMOUNT PARK CONSERVANCY

PROJECT PARTNER
1617 JFK BLVD., SUITE 1670
PHILADELPHIA, PA 19103

Meliora Design

ENGINEER
259 MORGAN STREET
PHOENIXVILLE, PA 19460

rodriguez CONSULTING

SURVEYOR
1301 NORTH 2ND STREET
PHILADELPHIA, PA 19122

SDE SYSTEMS DESIGN ENGINEERING, INC

ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

STORMWATER DETAILS

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED ..... JAMES W. ADAMS, PE, PRINCIPAL ENGINEER, MELIORA DESIGN

APPROVED ..... DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

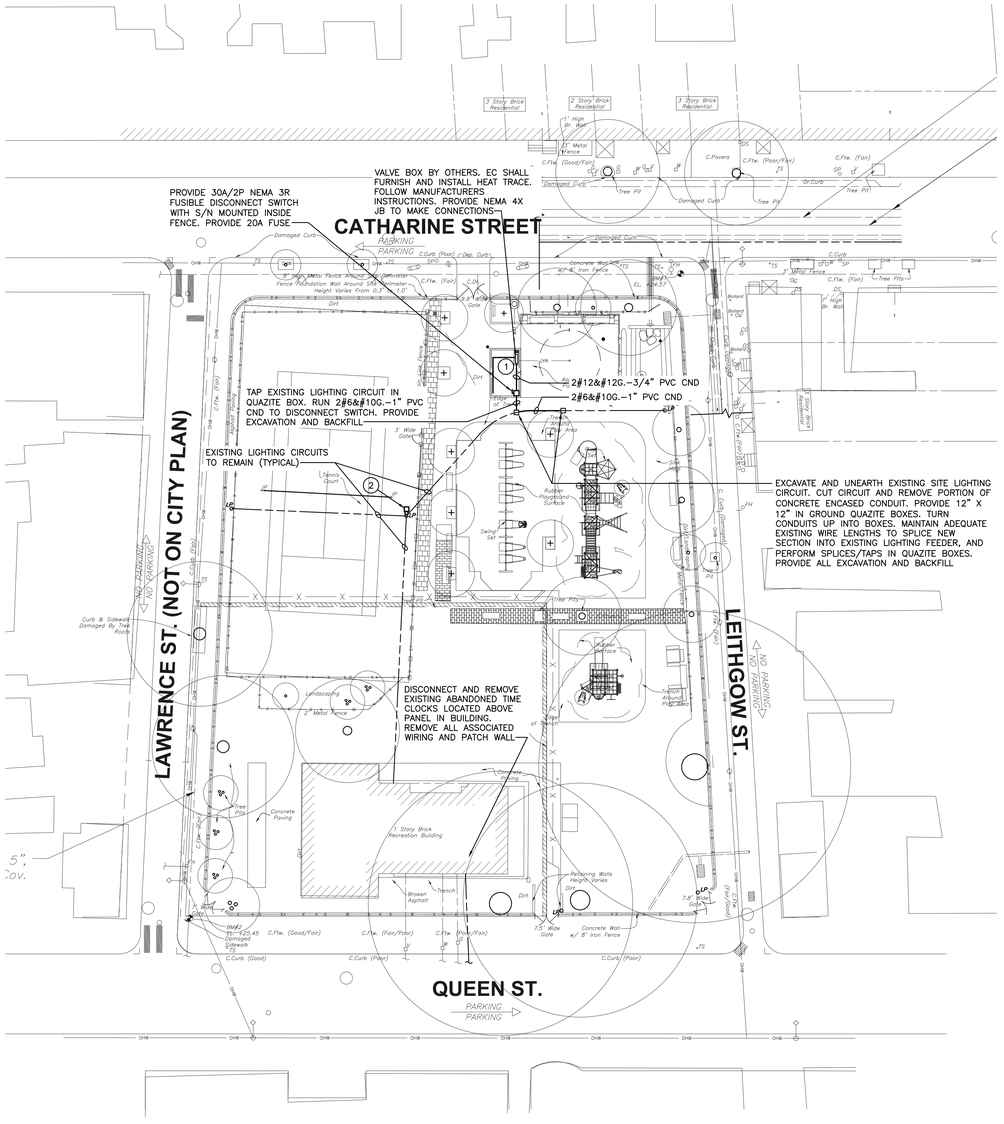
APPROVED ..... WATER COMMISSIONER

WORK NO. S–50083–G

SHEET NO. G–7 OF 24 SHEETS

NO.	DATE	ISSUE

DRAWN BY	AMH/CEF	11/20/15
PROJECT ENGR.	JWA	
JAMES W. ADAMS, PE		11/20/15
SUPERVISOR		DATE

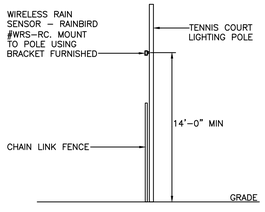


ELECTRICAL SITE PLAN

SCALE: 1"=20'-0"

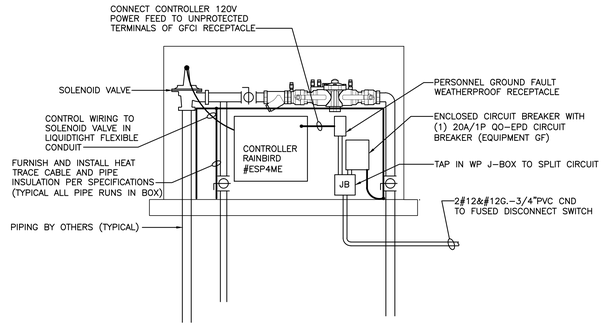
DRAWING NOTES:

1. REFER TO SPRAY CONTROL ENCLOSURE WIRING DETAIL THIS DRAWING.
2. PROVIDE WIRELESS RAIN SENSOR - RAIN BIRD #WR2-RC MOUNTED ON TENNIS COURT LIGHTING POLE.



RAIN SENSOR MOUNTING DETAIL

NO SCALE



SPRAY CONTROL ENCLOSURE WIRING DETAIL

NO SCALE

ELECTRICAL SPECIFICATIONS:

IT IS THE INTENT OF THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS THAT THE CONTRACTOR SHALL, UNLESS OTHERWISE SPECIFIED HEREIN, FURNISH ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT INCLUDING SCAFFOLDING TO COMPLETE THE INSTALLATION OF THE ENTIRE ELECTRICAL SYSTEM AS SPECIFIED HEREIN. CONTRACTOR SHALL PROPERLY INSTALL, EQUIP, ADJUST, AND PUT INTO PERFECT OPERATION, THE RESPECTIVE PORTIONS OF THE INSTALLATION SPECIFIED, AND SO INTERCONNECT THE VARIOUS ITEMS OR SECTIONS OF THE WORK IN ORDER TO FORM A COMPLETE AND PROPERLY OPERATING WHOLE.

THE WORK SHALL INCLUDE ALL MATERIAL AND LABOR REQUIRED TO PROVIDE THE ELECTRICAL WORK SPECIFIED AND SHOWN ON DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ACCESSORIES, PARTS, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM.

THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

(1) DISCONNECT SWITCHES
(2) BRANCH CIRCUITS
(3) CONNECTIONS TO EQUIPMENT
(4) HEAT CABLE
(5) LOAD CENTER
(6) TESTING
(7) GROUNDING
(8) CUTTING AND PATCHING
(9) DEMOLITION
(10) BOXES

THE WORK SHALL INCLUDE OBTAINING ALL PERMITS, PAYING ALL PERMIT FEES, SCHEDULING ALL REQUIRED INSPECTIONS AND PAYING ALL UTILITY AND INSPECTION FEES.

RULES AND REGULATIONS

ELECTRICAL WORK SHALL BE PERFORMED IN ACORDANCE WITH THE RULES AND REGULATIONS OF THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND ALL APPLICABLE LOCAL CODES. CERTIFICATE OF APPROVAL, IN TRIPLICATE, FOR ROUGH AND FINISHED WIRING, FROM THE INSPECTION AGENCY(S) MUST BE DELIVERED TO THE ARCHITECT BEFORE FINAL PAYMENT CAN BE AUTHORIZED. INDEPENDENT INSPECTION AGENCY(S) MUST BE APPROVED BY LOCAL AUTHORITIES.

MATERIALS AND WORKMANSHIP

ALL MATERIALS SHALL BE NEW, OF THE BEST RESPECTIVE KINDS, MANUFACTURED BY THE COMPANY OR COMPANIES MENTIONED AND SHALL BE OF DOMESTIC MANUFACTURE. ALL EQUIPMENT SHALL BE UL-APPROVED.

GROUNDING

ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A GROUND WIRE WITH ALL CIRCUITS, BRANCH, AND FEEDER. THE SIZE SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, ARTICLE 250, TABLE 250-122.

POWER WIRING TO OTHER EQUIPMENT

ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, DISCONNECT SWITCHES, WIRE, OUTLET BOXES AND FINAL CONNECTIONS TO CONNECT ANY PIECE OF EQUIPMENT FURNISHED BY OTHER CONTRACTORS. THE CONTROL WIRING AND STARTER, IF REQUIRED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FURNISHING THE EQUIPMENT.

MATERIALS AND INSTALLATION

IN GENERAL, BRANCH CIRCUITS SHALL BE 98% COPPER CONDUCTORS TYPE THWN/THHN EXCEPT WHERE HOT OR DAMP CONDITIONS REQUIRE A DIFFERENT TYPE OF INSTALLATION. MINIMUM SIZE SHALL BE #12 AWG. #12 AND #10 AWG SHALL BE SOLID COPPER. #8 AWG AND LARGER SHALL BE STRANDED.

ALL CIRCUITS INSTALLED IN CONCRETE OR EARTH SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT WITH RIGID STEEL ELLS, AND ALL EXPOSED EXTERIOR CIRCUITS SHALL BE RUN IN RIGID GALVANIZED STEEL. ALL WIRING SHALL BE INSTALLED AS PER THE NATIONAL ELECTRICAL CODE.

DRAWINGS

THE DRAWINGS ISSUED WITH THESE SPECIFICATIOS ARE DIAGRAMMATIC AND SHOW THE APPROXIMATE LOCATIONS OF EQUIPMENT, FIXTURES, FEEDER RUNS, BRANCH CIRCUITS, ETC. PREMISE LOCATIONS SHALL BE COORDINATED IN THE FIELD AS CONSTRUCTION PROCEEDS. PROVIDE ALL NECESSARY MISCELLANEOUS INCIDENTAL MATERIALS AND ACCESSORIES REQUIRED TO MAKE THE WORK COMPLETE IN ALL RESPECTS EVEN IF NOT PARTICULARLY SHOWN OR SPECIFIED.

GUARANTEE

A ONE YEAR GUARANTEE STATING THAT ALL EQUIPMENT, MATERIALS, AND WORKMANSHIP ARE IN FULL ACCORDANCE WITH THE CONTRACT DOCUMENTS.

SHOP DRAWINGS

APPROVAL DRAWINGS MUST BE PROVIDED FOR ALL EQUIPMENT/MATERIALS BEING PROVIDED ON THIS PROJECT. APPROVAL DRAWINGS ARE NOT REQUIRED FOR CONDUIT AND WIRE. THE EXACT NUMBER OF DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECT/ENGINEER BEFORE SUBMITTING WITH A MINIMUM OF FIVE COPIES BEING REQUIRED. BEFORE SUBMITTING DRAWINGS, THE CONTRACTOR SHALL CHECK AND STAMP THE DRAWINGS WITH HIS APPROVAL. NO EQUIPMENT MAY BE INSTALLED WITHOUT BEING REVIEWED BY THE ARCHITECT/ENGINEER/OWNER. SUBMIT DISCONNECT SWITCHES, WIRING DEVICES, LAOD CENTER, HEAT CABLE, AND RAIN SENSOR/CONTROLLER.

RECEPTACLES, SWITCHES AND PLATES

CONTRACTOR SHALL PROVIDE ALL PLATES, RECEPTACLES AND LIGHT SWITCHES AS SHOWN. ALL RECEPTACLES AND LIGHT SWITCHES SHALL BE 120/277 VOLT, 20 AMP, HEAVY DUTY TYPE AND OF ONE MANUFACTURER. REFER TO LEGEND FOR CATALOG NUMBERS OF DEVICES TO BE SUPPLIED. ALL WALL PLATES SHALL BE LEXAN PLASTIC. COLOR SHALL BE SELECTED BY THE ARCHITECT. DEVICES LOCATED IN EXPOSED SURFACE-MOUNTED BOXES SHALL BE INSTALLED IN A BOX WITHOUT KNOCKOUTS AND A METAL PLATE.

SAFETY SWITCHES

SAFETY SWITCHES SHALL BE FUSIBLE TYPE OF NEMA CONSTRUCTION, HEAVY-DUTY, WITH POSITIVE QUICK-MAKE/QUICK-BREAK OPERATING MECHANISM. PROVIDE NEMA 3R ENCLOSURE WHEN INSTALLED OUTDOORS.

FUSES

THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DUAL-ELEMENT FUSES AND ONE SET OF SPARES FOR EACH FUESHOLDER FOR ALL FUSED SWITCHES ON THIS PROJECT. TURN OVER SPARE FUSES TO OWNER.

TESTING

AT THE COMPLETION OF THE WORK, COMPLETELY OPERATIONALLY TEST THE ENTIRE ELECTRICAL INSTALLATION FOR PROPER OPERATION. CORRECT ALL DEFICIENCIES FOUND.

DEMOLITION

THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES AND EQUIPMENET REQUIRED TO PERFORM HIS WORK. ANY EXISTING ELECTRICAL DEVICES OR EQUIPMENT THAT MUST BE RELOCATED TO ACCOMMODATE NEW WORK SHALL BE PROVIDED BY THE CONTRACTOR. THERE SHALL BE NO ADDITIONAL EXPENSE FOR THIS WORK PASSED ON TO THE OWNER. ALL ELECTRICAL ITEMS REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS THE OWNER DOES NOT WANT THEM. ITEMS NOT CLAIMED BY THE OWNER SHALL BE LEGALLY REMOVED FROM THE SITE BY THE CONTRACTOR.

BOXES

FURNISH AND INSTALL BOXES SUITABLE FOR EACH USE. BOXES SHALL BE CAST NEMA 4 LIQUID TIGHT, WITH THREADED HUBS AND GASKETED COVER PLATES.

HEAT CABLE

THE CONTRACTOR SHALL FURNISH AND INSTALL SELF REGULATING HEAT CABLE AND ALL REQUIRED ACCESSORIES INSTALLED PER MANUFACTURERS RECOMMENDATIONS. BUS WIRE SHALL BE #16AWG NICKEL COATED COPPER, WITH TINNED COPPER GROUND BRAID UNDER OUTER JACKET. OUTER JACKET SHALL BE WATERPROOF, WITH HEAT SHRINK, LIQUID TIGHT END SEAL CAP, CABLE CONNECTOR, AND CRIMP CONNECTORS FOR CONNECTION TO POWER SUPPLY. RAYCHEM OR CHROMALUX. UL LISTED FOR DAMP OR WET LOCATIONS. INSTALL SINGLE RUN TIE WRAPPED TO PIPING WITH HIGH-TEMP NYLON CABLE TIES. PROVIDE CLOSED CELL RUBBER INSULATION ON ALL VERTICAL PIPE RUNS.

WIRELESS RAIN SENSOR

WIRELESS RAIN SENSOR SHALL BE RAIN BIRD #WR2-RC WITH MOUNTING BRACKET.

CONTROLLER

CONTROLLER SHALL BE RAIN BIRD #ESP4ME OUTDOOR CONTROLLER WITH 120 VOLT INPUT POWER.

STAMP:

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
STEPHEN GRIBB
ENGINEER
PE046500E

Stephen Gribb

ISSUE FOR BID

NOTICE

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HIGHWAY DISTRICT NO. _____ WARD NO. _____

SURVEY DISTRICT NO. _____ DRAINAGE SHT. NO. _____ OUTFALL NO. _____

ONE CALL SERIAL NO. _____

GREEN INFRASTRUCTURE PROJECT

BASE PLAN PREPARED FOR:

PHILADELPHIA PARKS & RECREATION
PROJECT PARTNER AND OWNER
1515 ARCH STREET, 10th FLOOR
PHILADELPHIA, PA 19102

PHILADELPHIA WATER
PROJECT PARTNER AND FUNDER
1101 MARKET STREET, 5th FLOOR
PHILADELPHIA, PA 19107

PARTNERS AND CONSULTANTS:

PHS PENNSYLVANIA HORTICULTURAL SOCIETY
PRIME CONSULTANT
100 NORTH 20th STREET, 5th FLOOR
PHILADELPHIA, PA

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SDE SYSTEMS DESIGN ENGINEERING, INC
ELECTRICAL, PLUMBING ENGINEER
1032 JAMES DRIVE
LEESPORT, PA 19533

ELECTRICAL SITE PLAN

WECCACOE PLAYGROUND

CATHARINE STREET AND QUEEN STREET FROM LEITHGOW STREET TO LAWRENCE STREET

APPROVED ..... STEPHEN GRIBB, PE, SYSTEMS DESIGN ENGINEERING, INC.

APPROVED ..... DEPUTY COMMISSIONER, PLANNING & ENVIRONMENTAL SERVICES

APPROVED ..... WATER COMMISSIONER

CITY OF PHILADELPHIA
WATER DEPARTMENT

SCALES:

PLAN 1" = 20'-0"
PROFILE HORZ.
VERT.

WORK NO. S-50083-G

SHEET NO. E-1 OF 24 SHEETS

DRAWN BY	TK	11/09/15
PROJECT ENGR.	SG	
STEPHEN GRIBB, PE, SDE		11/09/15
SUPERVISOR		DATE