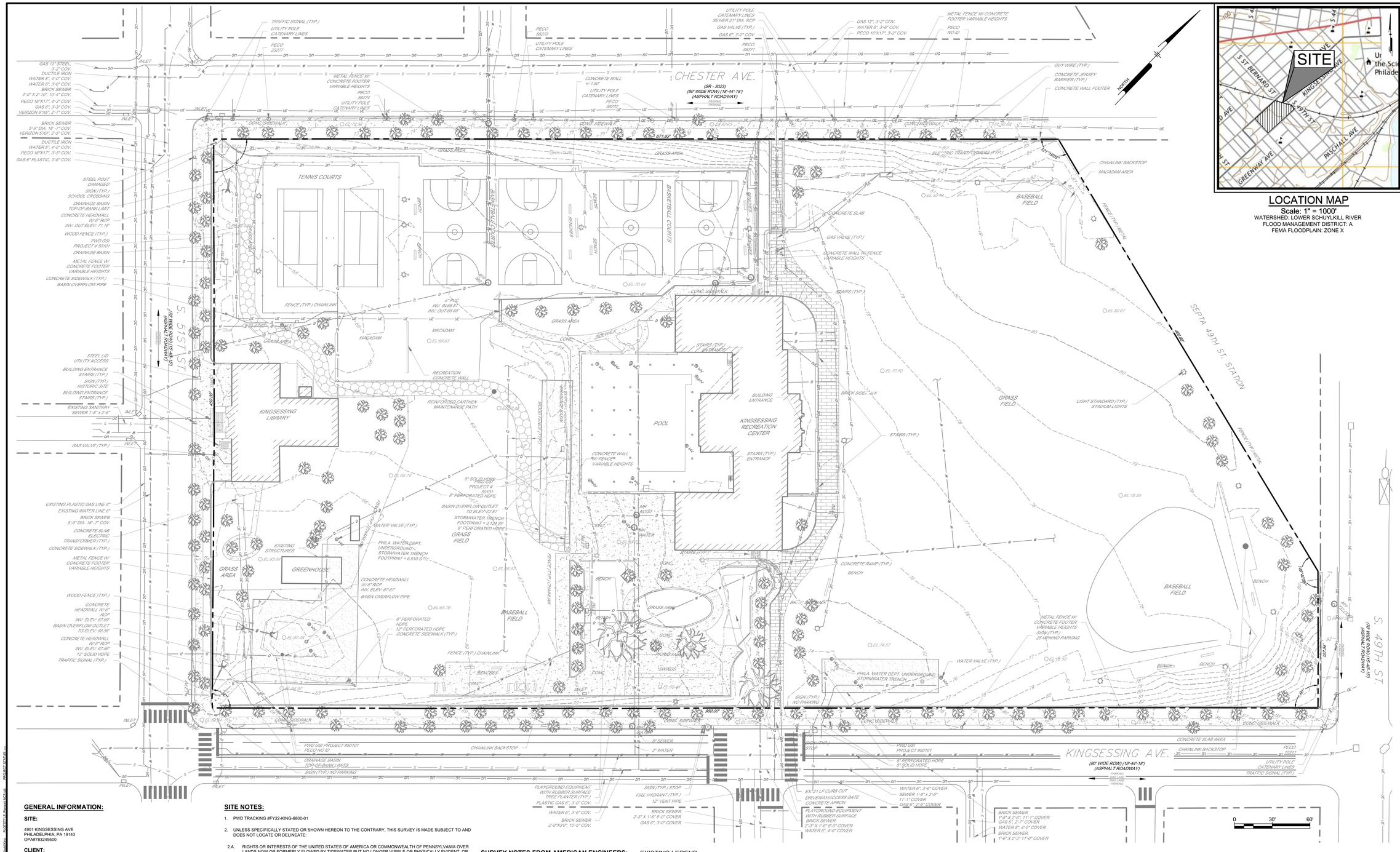


GENERAL INFORMATION:

SITE:

4901 KINGSESSING AVE
PHILADELPHIA, PA 19143
OPA#783249500

CLIENT:

CITY OF PHILADELPHIA
PARKS AND RECREATION
1515 ARCH STREET, 10TH FLOOR
PHILADELPHIA, PA 19102

ENGINEER:

PENNONI ASSOICATES
1900 MARKET STREET, SUITE 300
PHILADELPHIA, PA 19103

SITE INFORMATION:

MUNICIPAL ZONING INFORMATION:

THE SITE IS LOCATED IN THE FOLLOWING ZONES IN THE CITY OF PHILADELPHIA:

ACTIVE PARKS AND OPEN SPACE (SP-PO-A)
ACCESSORY SIGN CONTROLS - SPECIAL CONTROLS FOR COBBS CREEK, ROOSEVELT BOULEVARD, AND DEPARTMENT OF PARKS AND RECREATION LAND

FOR COMPLETE ZONING INFORMATION PLEASE REFER TO THE ZONING CODE OF THE CITY OF PHILADELPHIA AS CURRENTLY AMENDED

FLOOD ZONE INFORMATION:

BY GRAPHIC PLOTTING ONLY, BASED UPON THE THE FLOOD INSURANCE RATE COMMUNITY MAP NO. 42057C0184H WHICH BEARS AN EFFECTIVE DATE OF NOVEMBER 18, 2015, THE SITE IS LOCATED IN THE FOLLOWING AREAS:

ZONE X AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE

REFERENCES:

1. TOPOGRAPHIC INFORMATION TAKEN FROM A PLAN BY AMERICAN ENGINEERS GROUP, LLC ENTITLED "KINGSESSING RECREATION CENTER TOPOGRAPHIC SURVEY". SHEET NO. 1, DATED 03/12/2021.
2. BOUNDARY INFORMATION FROM GIS. BOUNDARY SURVEY NOT PERFORMED

SITE NOTES:

1. PWD TRACKING #FY22-KING-6800-01
2. UNLESS SPECIFICALLY STATED OR SHOWN HEREON TO THE CONTRARY, THIS SURVEY IS MADE SUBJECT TO AND DOES NOT LOCATE OR DELINEATE:

2.A. RIGHTS OR INTERESTS OF THE UNITED STATES OF AMERICA OR COMMONWEALTH OF PENNSYLVANIA OVER LANDS NOW OR FORMERLY FLOWED BY TIDEWATER BUT NO LONGER VISIBLE OR PHYSICALLY EVIDENT, OR LANDS CONTAINING ANY ANIMAL, MARINE, OR BOTANICAL SPECIES REGULATED BY OR UNDER THE JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL AGENCY.

2.B. BUILDING SETBACK LINES, ZONING REGULATIONS OR LINES ESTABLISHED BY ANY FEDERAL, STATE OR LOCAL AGENCY WHICH MAY AFFECT THE BUILDING OR DEVELOPMENT POTENTIAL OF THE SUBJECT PROPERTY.

2.C. ANY SUBSURFACE OR SUBTERRANEAN CONDITION, EASEMENTS OR RIGHTS INCLUDING BUT NOT LIMITED TO MINERAL OR MINING RIGHTS, OR THE LOCATION OF OR RIGHTS TO ANY SUBSURFACE STRUCTURES, CONTAINERS OR FACILITIES OR ANY OTHER NATURAL OR MAN-MADE SUBSURFACE CONDITION WHICH MAY OR MAY NOT AFFECT THE USE OR DEVELOPMENT POTENTIAL OF THE SUBJECT PROPERTY.

3. LOCATIONS OF ON AND OFF SITE UTILITIES AS SHOWN ARE APPROXIMATE AND MAY OR MAY NOT BE COMPLETE. THE NATURE AND EXACT LOCATION OF EXISTING UTILITIES SHOULD BE VERIFIED PRIOR TO INITIATING ANY ACTIVITY THAT MAY AFFECT THEIR USE OR LOCATION.

3.A. THE LOCATION OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING UTILITY RECORDS AVAILABLE AT THE TIME THESE PLANS WERE PREPARED AND FROM SURFACE OBSERVATION OF THE SITE.

3.B. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND STRUCTURES IS NOT GUARANTEED.

3.C. IN ACCORDANCE WITH PA ACT 287 OF 1974 AS AMENDED BY PA ACT 121 OF 2008 ENTITLED "UNDERGROUND UTILITY LINE PROTECTION LAW", THE CONTRACTOR SHALL NOTIFY ALL UTILITIES WITHIN THE WORK AREA VIA THE PENNSYLVANIA ONE CALL SYSTEM INC, (800-242-1776) A MINIMUM OF 3 WORKING DAYS BEFORE THE START OF EXCAVATION.

3.D. THE CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

4. ALL BOUNDARY DIMENSIONS SHOWN ARE IN CITY OF PHILADELPHIA DISTRICT STANDARD MEASURE (DS) UNLESS DESIGNATED (US) TO DENOTE U.S. SURVEY FOOT.
5.
6. BOUNDARY DIMENSIONS SOWN ARE IN CITY OF PHILADELPHIA DISTRICT STANDARD MEASURE (DS) UNLESS DESIGNATED (US) TO DENOTE U.S. SURVEY FOOT.

SURVEY NOTES FROM AMERICAN ENGINEERS:

1. TOPOGRAPHIC INFORMATION HEREON IS TAKEN FROM A PLAN PREPARED BY AMERICAN ENGINEERS GROUP, LLC ENTITLED "KINGSESSING RECREATION CENTER TOPOGRAPHIC SURVEY" FOR CITY OF PHILADELPHIA REBUILD SITE 4901 KINGSESSING AVE. DRAWING NUMBER 1 DATED 3-12-2021.
2. PENNSYLVANIA STATE PLANE: SOUTH ZONE
   HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD 83)
   VERTICAL DATUM: CITY OF PHILADELPHIA DATUM
3. KINGSESSING RECREATION CENTER SITE CITY BENCHMARK CITY SURVEY BUREAU SET PK NAIL ELEVATIONS:
   EAST CORNER CHESTER AVE. AND S. 48TH ST. - 87.57'
   NORTH CORNER CHESTER AVE. AND S. 48TH ST. - 87.90'

EXISTING LEGEND

- EXISTING PROPERTY LINE (APPROXIMATE)
- EXISTING RIGHT OF WAY LINE (APPROXIMATE)
- EXISTING BUILDING
- EXISTING CURB
- EXISTING SIDEWALK
- EXISTING EDGE OF MACADAM/GRAVEL
- EXISTING TRAFFIC MARKING
- EXISTING FENCE
- EXISTING TREE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SIGN
- EXISTING BOLLARD
- EXISTING UTILITY POLE
- EXISTING LIGHT
- EXISTING INLET
- EXISTING SEWER
- EXISTING STORM SEWER
- EXISTING WATER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD WIRES
- EXISTING UTILITY STRUCTURES

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23
NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

LOCATION MAP

Scale: 1" = 1000'
WATERSHED: LOWER SCHUYLKILL RIVER
FLOOD MANAGEMENT DISTRICT: A
FEMA FLOODPLAIN: ZONE X

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
2	02/14/23	PWD PCSM RESUBMISSION
3	05/24/23	PWD PCSM RESUBMISSION

REVIEWED BY:

PROJECT COORDINATOR

SEALS

KELLY MAIELLO ARCHITECTS
1420 Walnut Street, 15th Floor
Philadelphia, PA 19102
www.kmarchitects.com

LANDSCAPE ARCHITECT:
Salt Design Studio
4100 Main Street Suite 200
Philadelphia PA 19127
www.saltdesignstudio.com

M.E.P./F.P./SITE CIVIL ENGINEERS:
Pennoni Associates
1900 Market Street Suite 300
Philadelphia PA 19103
www.pennoni.com

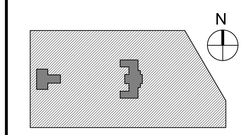
LEED CONSULTANT:
Verde Architecture Consulting
1635 Market Street Suite 1600
Philadelphia PA 19103

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

PROJECT TITLE

KINGSESSING RECREATION CENTER

KEY PLAN

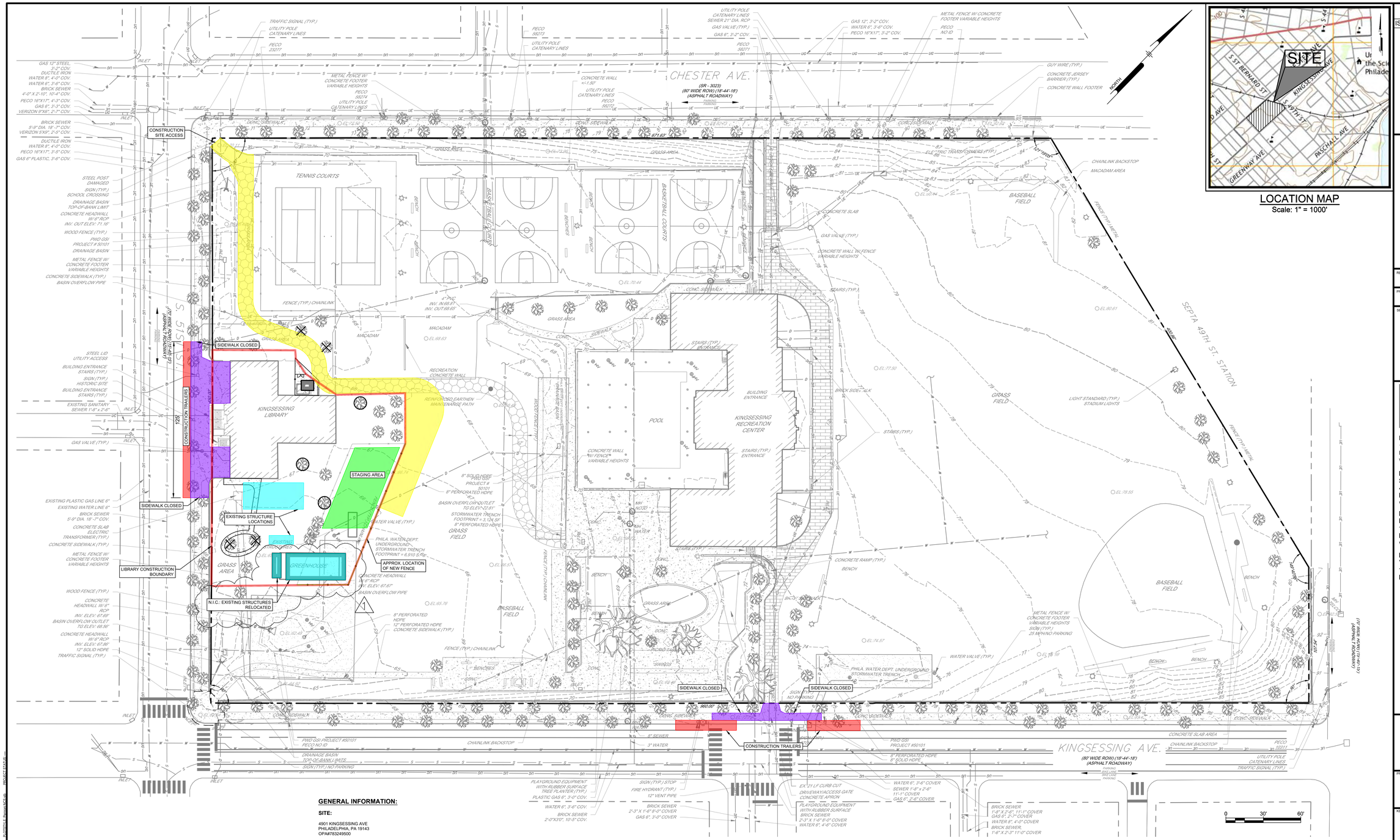


DRAWING TITLE

EXISTING CONDITIONS PLAN

PROJECT NO. KLMLX21003	DRAWING NO. C-021-R.2
DATE: 08/28/23	
SCALE: 1" = 30'	
DRAWN BY: SDL	
CHECKED BY: MJM	

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



LOCATION MAP
Scale: 1" = 1000'

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
2	02/14/23	PWD PCSM RESUBMISSION
3	05/24/23	PWD PCSM RESUBMISSION

REVIEWED BY:

PROJECT COORDINATOR

SEALS

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www.kmarchitects.com

LANDSCAPE ARCHITECT:
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LEED CONSULTANT:
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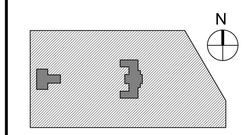
1635 Market Street Suite 1600
Philadelphia PA 19103

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

PROJECT TITLE
KINGSESSING RECREATION CENTER

KEY PLAN



DRAWING TITLE
Site Utilization Plan

PROJECT NO. KLMLX21003	DRAWING NO. C-050-R.2
DATE: 08/28/23	
SCALE: 1"=30'	
DRAWN BY: SDL	
CHECKED BY: MJM	

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

GENERAL INFORMATION:

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4901 KINGSESSING AVE
PHILADELPHIA, PA 19143
OPA#783249500

CLIENT:

CITY OF PHILADELPHIA
PARKS AND RECREATION
1515 ARCH STREET, 10TH FLOOR
PHILADELPHIA, PA 19102

ENGINEER:

PENNONI ASSOICATES
1900 MARKET STREET, SUITE 300
PHILADELPHIA, PA 19103

SITE INFORMATION:

MUNICIPAL ZONING INFORMATION:

THE SITE IS LOCATED IN THE FOLLOWING ZONES IN THE CITY OF PHILADELPHIA:

ACTIVE PARKS AND OPEN SPACE (SP-PO-A)
ACCESSORY SIGN CONTROLS - SPECIAL CONTROLS FOR COBBS CREEK, ROOSEVELT BOULEVARD, AND DEPARTMENT OF PARKS AND RECREATION LAND

FOR COMPLETE ZONING INFORMATION PLEASE REFER TO THE ZONING CODE OF THE CITY OF PHILADELPHIA AS CURRENTLY AMENDED

FLOOD ZONE INFORMATION:

BY GRAPHIC PLOTTING ONLY, BASED UPON THE THE FLOOD INSURANCE RATE COMMUNITY MAP NO. 42057O1584H WHICH BEARS AN EFFECTIVE DATE OF NOVEMBER 18, 2015, THE SITE IS LOCATED IN THE FOLLOWING AREAS:

ZONE X AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE

REFERENCES:

1. TOPOGRAPHIC INFORMATION TAKEN FROM A PLAN BY AMERICAN ENGINEERS GROUP, LLC ENTITLED "KINGSESSING RECREATION CENTER TOPOGRAPHIC SURVEY", SHEET NO. 1, DATED 03/12/2021.
2. BOUNDARY INFORMATION FROM GIS. BOUNDARY SURVEY NOT PERFORMED

SITE NOTES:

1. UNLESS SPECIFICALLY STATED OR SHOWN HEREON TO THE CONTRARY, THIS SURVEY IS MADE SUBJECT TO AND DOES NOT LOCATE OR DELINEATE:

1.A. RIGHTS OR INTERESTS OF THE UNITED STATES OF AMERICA OR COMMONWEALTH OF PENNSYLVANIA OVER LANDS NOW OR FORMERLY FLOWED BY TIDEWATER BUT NO LONGER VISIBLE OR PHYSICALLY EVIDENT, OR LANDS CONTAINING ANY ANIMAL MARINE, OR BOTANICAL SPECIES REGULATED BY OR UNDER THE JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL AGENCY.

1.B. BUILDING SETBACK LINES, ZONING REGULATIONS OR LINES ESTABLISHED BY ANY FEDERAL, STATE OR LOCAL AGENCY WHICH MAY AFFECT THE BUILDING OR DEVELOPMENT POTENTIAL OF THE SUBJECT PROPERTY.

1.C. ANY SUBSURFACE OR SUBTERRANEAN CONDITION, EASEMENTS OR RIGHTS INCLUDING BUT NOT LIMITED TO MINERAL OR MINING RIGHTS, OR THE LOCATION OF OR RIGHTS TO ANY SUBSURFACE STRUCTURES, CONTAINERS OR FACILITIES OR ANY OTHER NATURAL OR MAN-MADE SUBSURFACE CONDITION WHICH MAY OR MAY NOT AFFECT THE USE OR DEVELOPMENT POTENTIAL OF THE SUBJECT PROPERTY.

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3. ALL BOUNDARY DIMENSIONS SHOWN ARE IN CITY OF PHILADELPHIA DISTRICT STANDARD MEASURE (DS) UNLESS DESIGNATED (US) TO DENOTE U.S. SURVEY FOOT.

4. THE HORIZONTAL DATUM FOR THIS PROJECT REFERENCES THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983

5. THE VERTICAL DATUM FOR THIS PROJECT REFERENCES THE CITY OF PHILADELPHIA VERTICAL DATUM.

6. CONTRACTOR TO COORDINATE CONSTRUCTION TRANSITION WITH LIBRARY CONTRACTOR

SURVEY NOTES:

1. PENNSYLVANIA STATE PLANE: SOUTH ZONE
   HORIZONTAL DATUM: NAD 83
   VERTICAL DATUM: CITY OF PHILADELPHIA DATUM

2. KINGSESSING RECREATION CENTER SITE CITY BENCHMARK
   CITY SURVEY BUREAU SET PK NAIL ELEVATIONS:
   EAST CORNER CHESTER AVE. AND S. 48TH ST. - 67.57'
   NORTH CORNER CHESTER AVE. AND S. 48TH ST. - 87.90'

EXISTING LEGEND

- EXISTING PROPERTY LINE (APPROXIMATE)
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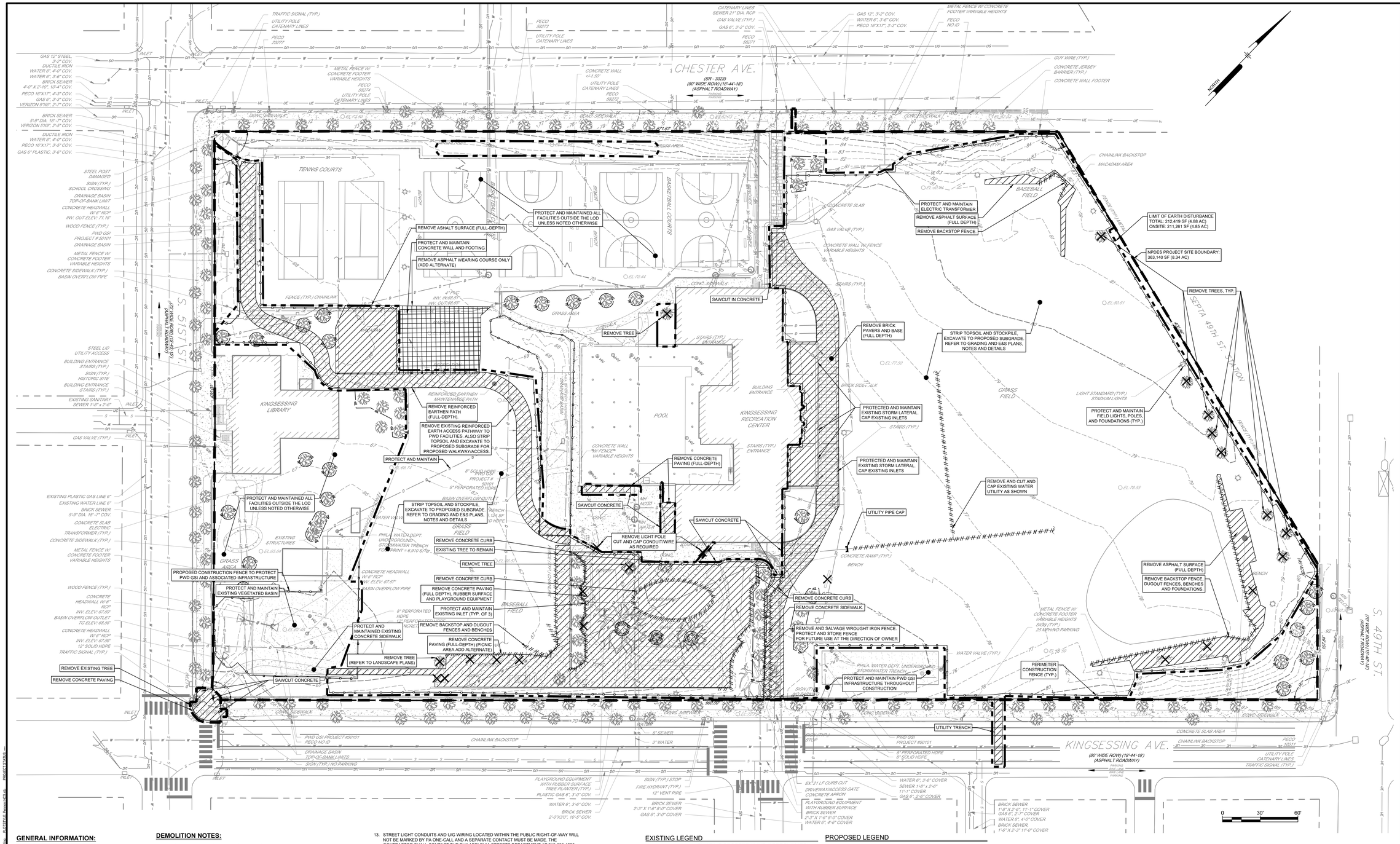
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD WIRES
- EXISTING UTILITY STRUCTURES

- CONSTRUCTION ACCESS
- STAGING AREA
- CONSTRUCTION TRAILERS
- SIDEWALK CLOSED
- STRUCTURE RELOCATION

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23

NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01



GENERAL INFORMATION:

SITE:

4901 KINGSESSING AVE
PHILADELPHIA, PA 19143
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CLIENT:

CITY OF PHILADELPHIA
PARKS AND RECREATION
1515 ARCH STREET, 10TH FLOOR
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REFERENCES:

1. TOPOGRAPHIC INFORMATION TAKEN FROM A PLAN BY AMERICAN ENGINEERS GROUP, LLC ENTITLED "KINGSESSING RECREATION CENTER TOPOGRAPHIC SURVEY", SHEET NO. 1, DATED 03/12/2021.
2. BOUNDARY INFORMATION FROM GIS. BOUNDARY SURVEY NOT PERFORMED

DEMOLITION NOTES:

1. PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 287 OF 1974, AS AMENDED BY ACT 121 OF 2008, THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776, AT LEAST THREE (3) WORKING DAYS PRIOR TO EXCAVATION.
2. CONTRACTOR IS RESPONSIBLE FOR UTILIZING APPLICABLE EROSION CONTROL MEASURES PRIOR TO AND DURING DEMOLITION.
3. ALL SUPER STRUCTURES, AND MISCELLANEOUS ITEMS SHALL BE REMOVED IN THEIR ENTIRETY FROM THE SITE, UNLESS OTHERWISE NOTED. ALL OPEN EXCAVATION AS A RESULT OF DEMOLITION WORK (I.E. BASEMENTS, TRENCHES) SHALL BE FILLED TO SURROUNDING GRADE LEVEL AFTER DEMOLITION IS COMPLETE.
4. SAFETY DEVICES (I.E. BARRICADES, WARNING TAPE, CHAIN LINK FENCING, ETC.) SHALL BE USED DURING DEMOLITION PROCEDURES TO INSURE THE SAFETY OF THE SURROUNDING PUBLIC.
5. THE CONTRACTOR SHALL INSTALL AN 8' H. CHAIN LINK SECURITY FENCE. POSTS SHALL BE DRIVEN OR SET ON PLATES. EXACT LOCATION SHALL BE COORDINATED WITH OWNER/ENGINEER AND DESIGNATED ON CONTRACTOR'S SITE SAFETY PLAN WHICH SHALL BE APPROVED BY PROJECT ENGINEER.
6. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPROPRIATE PERMITS FROM GOVERNMENTAL AGENCIES PRIOR TO START OF DEMOLITION.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER STEPS ARE NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS INDICATED EXISTING FACILITIES ON THESE PLANS BASED ON INFORMATION PROVIDED BY OWNER AND VISUAL SITE OBSERVATIONS; HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES FOR EXACT LOCATION OF UTILITIES PRIOR TO STARTING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR, AT CONTRACTOR'S EXPENSE.
8. CONTRACTOR TO NOTIFY AND COORDINATE WITH APPROPRIATE UTILITY COMPANY AND THE OWNER PRIOR TO SHUTDOWN, CUTTING/CAPPING, REMOVAL OR RELOCATION OF ANY UTILITY.
9. ALL MATERIALS TO BE REMOVED SHALL BE DISPOSED OF AT AN APPROVED AND PERMITTED WASTE DISPOSAL SITE OR SHALL BE RECYCLED IN ACCORDANCE WITH PROJECT REQUIREMENTS.
10. ALL STREETLIGHTS, SIGNS, POSTS, VAULTS, VALVES, ETC. IN THE WALKWAYS AND STREETS ARE TO BE PROTECTED AND MAINTAINED IN OPERABLE CONDITION THROUGH OUT DEMOLITION AND CONSTRUCTION.
11. THE EXTENTS OF SHEETING, SHORING AND UNDERPINNING (IF ANY) ARE UNKNOWN. THE CONTRACTOR IS RESPONSIBLE FOR RETAINING A PENNSYLVANIA LICENSED ENGINEER TO PREPARE CONSTRUCTION DRAWINGS FOR ALL EXCAVATION BRACING, UNDERPINNING, SUPPORT, SHEETING, SHORING OR OTHER MEANS NECESSARY TO ALLOW FOR DEMOLITION. EXTENT OF SHEETING AND SHORING MAY REQUIRE A CONSTRUCTION ENTRANCE RAMP. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS FOR INSTALLING THE SHEETING AND SHORING PLACED WITHIN THE SUBJECT PROPERTY AND OTHER AREAS OUTSIDE THE PROPERTY BOUNDARY. THE CONTRACTOR SHALL COORDINATE THE SHEETING AND SHORING WITH CITY AND STATE AGENCIES AND THE ADJACENT PROPERTY OWNERS.
12. CONTRACTOR TO PROTECT AND SUPPORT EXISTING UTILITY STRUCTURES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
13. STREET LIGHT CONDUITS AND U/G WIRING LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY WILL NOT BE MARKED BY PA ONE-CALL AND A SEPARATE CONTACT MUST BE MADE. THE CONTRACTOR SHALL CONTACT THE PHILADELPHIA STREETS DEPARTMENT AT 215-685-1220 (RICH MONTANEZ) NOT LESS THAN (3) DAYS OR MORE THAN 10 DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY/ALL WORK TO RELOCATE ANY/ALL STREET LIGHTING EQUIPMENT.
14. ALL UTILITY LINES TO BE ABANDONED SHALL BE SEALED WITH A MINIMUM OF 12-INCH DEEP MASONRY PLUG UNLESS OTHERWISE NOTED OR REQUIRED BY MORE STRINGENT LOCAL UTILITY REQUIREMENTS.
15. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER.
16. ALL FIRE HYDRANTS AND ASSOCIATED WATER MAINS AND VALVES SHALL BE PROTECTED AND REMAIN IN OPERATION AND ACCESSIBLE THROUGHOUT CONSTRUCTION.
17. PROTECT AND MAINTAIN NEWLY CONSTRUCTED EXISTING ADA CURB RAMPS THROUGHOUT CONSTRUCTION. IF THE NEWLY CONSTRUCTED EXISTING ADA CURB RAMPS ARE DAMAGED IN ANY WAY DURING CONSTRUCTION, THEN THE DEVELOPER/CONTRACTOR/OWNER MUST RECONSTRUCT ALL DAMAGED COMPONENTS ACCORDING TO THE ORIGINAL DESIGN OR ADA STANDARDS AND SUBMIT COMPLETED AS-BUILT PENNDOT CS-4401 FORMS TO THE PHILADELPHIA STREETS DEPARTMENT ADA UNIT WITHIN 30 CALENDAR DAYS OF FINISHING CONSTRUCTION, FOR ALL DAMAGED/RECONSTRUCTED RAMPS.
18. BELOW GRADE OBSTRUCTIONS SHALL BE REMOVED FROM THE SITE WITHIN THE TURF FIELD FOOTPRINTS. OBSTRUCTIONS, EXISTING AND ABANDONED BELOW GRADE UTILITIES, AND BURIED DEBRIS WERE ENCOUNTERED THROUGHOUT THE SITE AT DEPTHS OF UP TO 15 FEET BELOW EXISTING GRADES. THESE OBSTRUCTIONS WILL LIKELY BE PROBLEMATIC WITH INSTALLATION OF ANY BELOW GRADE COMPONENT AT THE SITE. MAPPING THE LOCATION OF EXISTING AND ABANDONED UTILITIES, AND PRE-EXCAVATION OR PROBE DRILLING OF UTILITY CORRIDORS AND AREAS OF BELOW GRADE COMPONENTS MAY BE PRUDENT TO LOCATE OBSTRUCTIONS FOR PLANNING AND DESIGN PURPOSES.
19. ALL UTILITIES UNEARTHED/DISTURBED DURING EXCAVATION ACTIVITIES ARE TO BE REMOVED IN THEIR ENTIRETY. OTHERWISE, UTILITIES 6" DIAMETER AND SMALLER CAN BE LEFT IN PLACE AFTER BEING CUT AND CAPPED. UTILITIES LARGER THAN 6" DIAMETER SHALL BE REMOVED OR GROUTED SOLID AFTER BEING CUT AND CAPPED.
20. THIS PLAN DOES NOT INDICATE THE GENERAL SUBGRADE ELEVATION REQUIRES FOR CONSTRUCTION OF PROPOSED IMPROVEMENTS, NOR THE ADDITIONAL EXCAVATION. FOR UNSUITABLE SOILS (IF ENCOUNTERED), CAISSONS, COLUMN FOOTINGS, SITE ACCESS/RAMPING AND BELOW SLAB UTILITIES (IF ANY). THE CONTRACTOR SHALL ACCOUNT FOR THE EXTRA EARTHMOVING RESULTING FROM THESE IMPROVEMENTS AND CONDITIONS AND THIS WORK WILL BE INCLUDED IN THE BASE CONTRACT.
21. CONTRACTOR SHALL DIG TEST PITS AT ALL UTILITY CROSSINGS TO VERIFY THE ELEVATION OF THE EXISTING UTILITY MAINS A MINIMUM OF TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK. THE ENGINEER SHALL BE PROVIDED WITH ELEVATIONS AT ALL LOCATIONS
22. ALL STANDING WATER WITHIN THE DEMOLITION AREA SHALL BE PUMPED.
23. MAINTAIN AND PROTECT EXISTING INLETS AND HYDRANTS. SHOULD THE EXISTING INLETS OR HYDRANTS BE IN ANY WAY DAMAGED DURING CONSTRUCTION, THESE SHOULD BE REPAIRED TO THE SATISFACTION OF THE PWD INSPECTION REPLACED PER PWD STANDARDS.

EXISTING LEGEND

- EXISTING PROPERTY LINE (APPROXIMATE)
- EXISTING RIGHT OF WAY LINE (APPROXIMATE)
- EXISTING BUILDING
- EXISTING CURB
- EXISTING SIDEWALK
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- S — EXISTING SEWER
- D — EXISTING STORM SEWER
- W — EXISTING WATER LINE
- UT — EXISTING UNDERGROUND TELEPHONE LINE
- UG — EXISTING GAS LINE
- UE — EXISTING UNDERGROUND ELECTRIC
- OE — EXISTING OVERHEAD WIRES
- EXISTING UTILITY STRUCTURES

PROPOSED LEGEND

- UTILITY/SITE FEATURE TO BE REMOVED
- EXISTING PAVEMENT TO BE REMOVED
- CAP UTILITIY
- SITE FEATURE TO BE REMOVED
- MILL AND OVERLAY
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED CONSTRUCTION FENCE
- PROPOSED TREE PROTECTION

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23
NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
2	02/14/23	PWD PCSM RESUBMISSION
3	05/24/23	PWD PCSM RESUBMISSION

REVIEWED BY:

PROJECT COORDINATOR

SEALS

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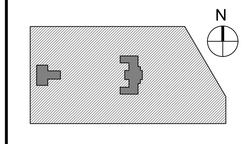
CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1515 ARCH STREET
11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE

KINGSESSING RECREATION CENTER

KEY PLAN

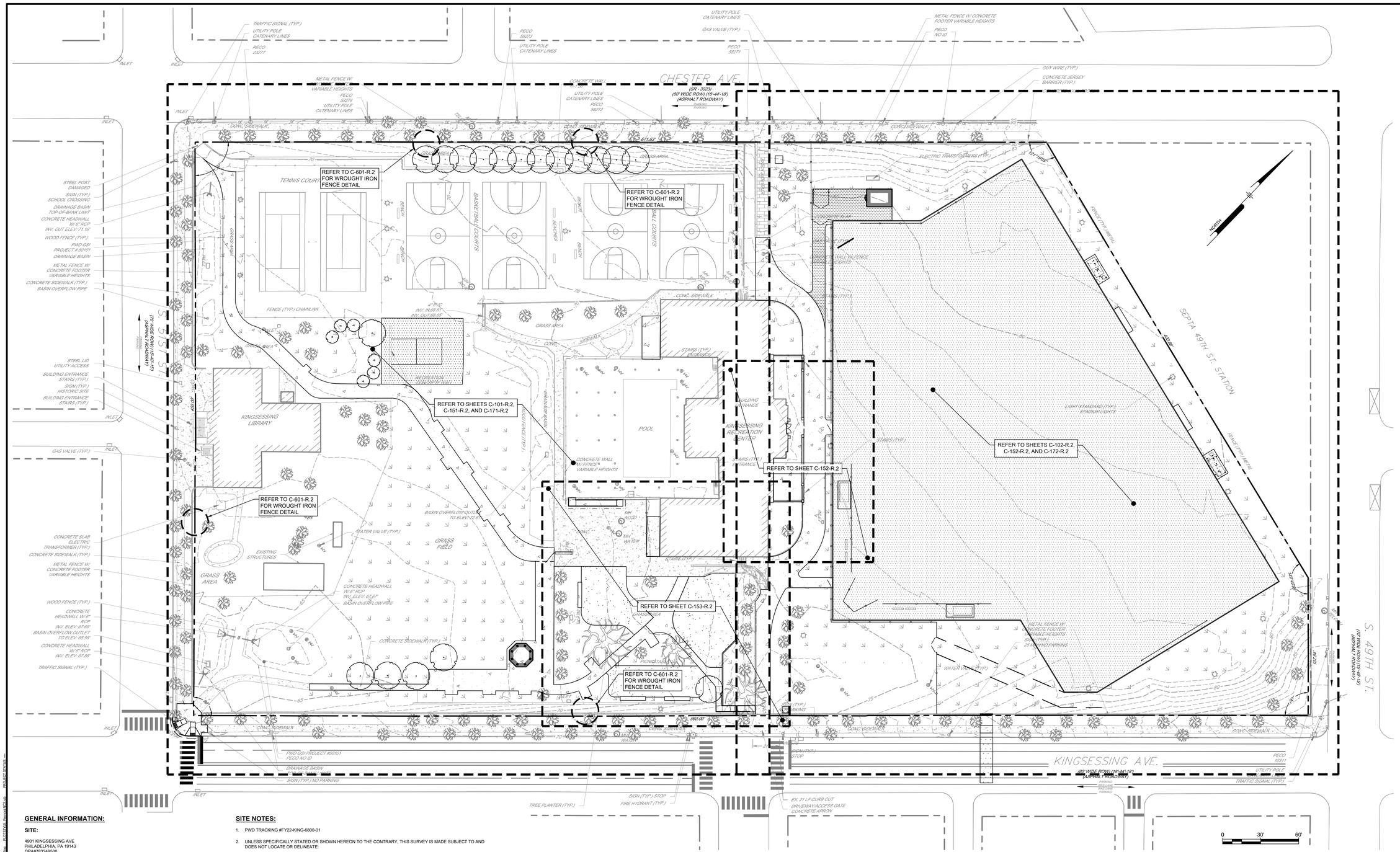


DRAWING TITLE

SITE DEMOLITION PLAN

PROJECT NO: KLMLX21003	DRAWING NO: C-051-R.2
DATE: 08/28/23	
SCALE: 1" = 30'	
DRAWN BY: SDL	
CHECKED BY: MJM	

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



GENERAL INFORMATION:

SITE:

4901 KINGSESSING AVE
PHILADELPHIA, PA 19143
OPA#763249500

CLIENT:

CITY OF PHILADELPHIA
PARKS AND RECREATION
1515 ARCH STREET, 10TH FLOOR
PHILADELPHIA, PA 19102

ENGINEER:

PENNONI ASSOICATES
1900 MARKET STREET, SUITE 300
PHILADELPHIA, PA 19103

SITE INFORMATION:

MUNICIPAL ZONING INFORMATION:

THE SITE IS LOCATED IN THE FOLLOWING ZONES IN THE CITY OF PHILADELPHIA:

ACTIVE PARKS AND OPEN SPACE (SP-PO-A)
ACCESSORY SIGN CONTROLS - SPECIAL CONTROLS FOR COBBS CREEK, ROOSEVELT BOULEVARD, AND DEPARTMENT OF PARKS AND RECREATION LAND

FOR COMPLETE ZONING INFORMATION PLEASE REFER TO THE ZONING CODE OF THE CITY OF PHILADELPHIA AS CURRENTLY AMENDED

FLOOD ZONE INFORMATION:

BY GRAPHIC PLOTTING ONLY, BASED UPON THE THE FLOOD INSURANCE RATE COMMUNITY MAP NO. 42075701 84H WHICH BEARS AN EFFECTIVE DATE OF NOVEMBER 18, 2015, THE SITE IS LOCATED IN THE FOLLOWING AREAS:

ZONE X AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE

REFERENCES:

1. TOPOGRAPHIC INFORMATION TAKEN FROM A PLAN BY AMERICAN ENGINEERS GROUP, LLC ENTITLED "KINGSESSING RECREATION CENTER TOPOGRAPHIC SURVEY", SHEET NO. 1, DATED 03/12/2021.
2. BOUNDARY INFORMATION FROM GIS. BOUNDARY SURVEY NOT PERFORMED

SITE NOTES:

1. PWD TRACKING #FY22-KING-6800-01
2. UNLESS SPECIFICALLY STATED OR SHOWN HEREON TO THE CONTRARY, THIS SURVEY IS MADE SUBJECT TO AND DOES NOT LOCATE OR DELINEATE:
   - 2.A. RIGHTS OR INTERESTS OF THE UNITED STATES OF AMERICA OR COMMONWEALTH OF PENNSYLVANIA OVER LANDS NOW OR FORMERLY FLOWED BY TIDEWATER BUT NO LONGER VISIBLE OR PHYSICALLY EVIDENT, OR LANDS CONTAINING ANY ANIMAL, MARINE, OR BOTANICAL SPECIES REGULATED BY OR UNDER THE JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL AGENCY.
   - 2.B. BUILDING SETBACK LINES, ZONING REGULATIONS OR LINES ESTABLISHED BY ANY FEDERAL, STATE OR LOCAL AGENCY WHICH MAY AFFECT THE BUILDING OR DEVELOPMENT POTENTIAL OF THE SUBJECT PROPERTY.
   - 2.C. ANY SUBSURFACE OR SUBTERRANEAN CONDITION, EASEMENTS OR RIGHTS INCLUDING BUT NOT LIMITED TO MINERAL OR MINING RIGHTS, OR THE LOCATION OF OR RIGHTS TO ANY SUBSURFACE STRUCTURES, CONTAINERS OR FACILITIES OR ANY OTHER NATURAL OR MAN-MADE SUBSURFACE CONDITION WHICH MAY OR MAY NOT AFFECT THE USE OR DEVELOPMENT POTENTIAL OF THE SUBJECT PROPERTY.
3. LOCATIONS OF ON AND OFF SITE UTILITIES AS SHOWN ARE APPROXIMATE AND MAY OR MAY NOT BE COMPLETE. THE NATURE AND EXACT LOCATION OF EXISTING UTILITIES SHOULD BE VERIFIED PRIOR TO INITIATING ANY ACTIVITY THAT MAY AFFECT THEIR USE OR LOCATION.
   - 3.A. THE LOCATION OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING UTILITY RECORDS AVAILABLE AT THE TIME THESE PLANS WERE PREPARED AND FROM SURFACE OBSERVATION OF THE SITE.
   - 3.B. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND STRUCTURES IS NOT GUARANTEED.
   - 3.C. IN ACCORDANCE WITH PA ACT 287 OF 1974 AS AMENDED BY PA ACT 121 OF 2008 ENTITLED "UNDERGROUND UTILITY LINE PROTECTION LAW". THE CONTRACTOR SHALL NOTIFY ALL UTILITIES WITHIN THE WORK AREA VIA THE PENNSYLVANIA ONE CALL SYSTEM INC, (800-242-1776) A MINIMUM OF 3 WORKING DAYS BEFORE THE START OF EXCAVATION.
   - 3.D. THE CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES AND STRUCTURES BEFORE THE START OF WORK.
4. ALL BOUNDARY DIMENSIONS SHOWN ARE IN CITY OF PHILADELPHIA DISTRICT STANDARD MEASURE (DS) UNLESS DESIGNATED (US) TO DENOTE U.S. SURVEY FOOT.
5. THE HORIZONTAL DATUM FOR THIS PROJECT REFERENCES THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983
6. THE VERTICAL DATUM FOR THIS PROJECT REFERENCES THE CITY OF PHILADELPHIA VERTICAL DATUM.

EXISTING LEGEND

- EXISTING PROPERTY LINE (APPROXIMATE)
- EXISTING RIGHT OF WAY LINE (APPROXIMATE)
- EXISTING BUILDING
- EXISTING CURB
- EXISTING SIDEWALK
- EXISTING EDGE OF MACADAM/GRAVEL
- EXISTING TRAFFIC MARKING
- EXISTING FENCE
- EXISTING TREE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SIGN
- EXISTING BOLLARD
- EXISTING UTILITY POLE
- EXISTING LIGHT
- EXISTING INLET
- S — EXISTING SEWER
- D — EXISTING STORM SEWER
- W — EXISTING WATER LINE
- UT — EXISTING UNDERGROUND TELEPHONE LINE
- UG — EXISTING GAS LINE
- UE — EXISTING UNDERGROUND ELECTRIC
- OE — EXISTING OVERHEAD WIRES
- EXISTING UTILITY STRUCTURES (E, W, T, G, D)

PROPOSED LEGEND

- PROPOSED BUILDING
- PROPOSED DOOR
- PROPOSED CONCRETE PAVEMENT
- PROPOSED ASPHALT PAVEMENT
- PROPOSED LANDSCAPED AREA
- PROPOSED UNIT PAVERS
- PROPOSED POROUS PLAYGROUND SAFETY SURFACE (DIC)
- PROPOSED SYNTHETIC TURF FIELD
- PROPOSED ADA RAMP
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED WALL
- PROPOSED STOP BAR/PAVEMENT MARKING
- PROPOSED FENCE
- PROPOSED SIGN

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23
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PROJECT TITLE
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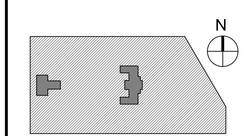
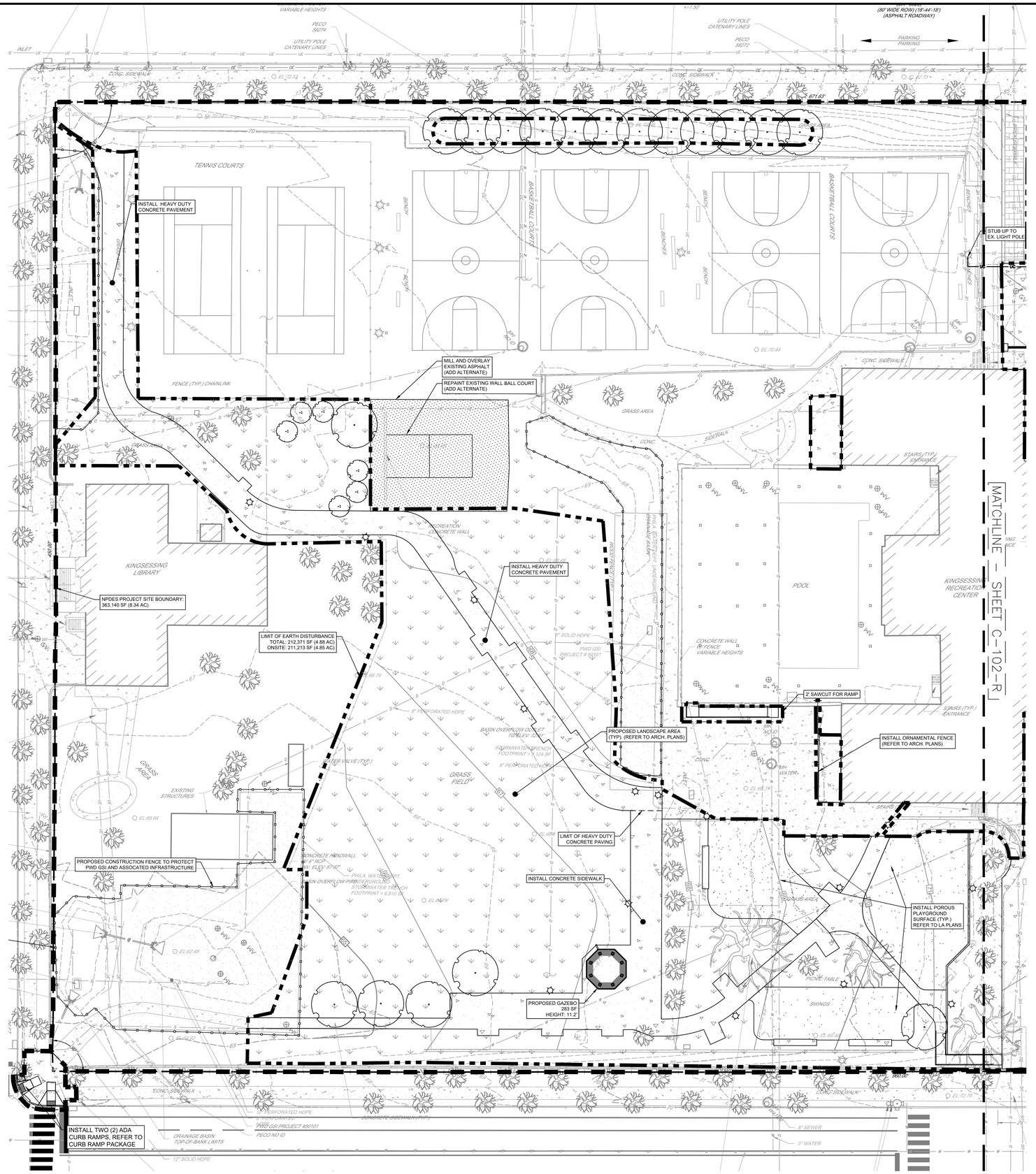
KEY PLAN



DRAWING TITLE
OVERALL SITE KEY PLAN

PROJECT NO. KLMLX21003	DRAWING NO. C-100-R.2
DATE 08/28/23	
SCALE 1" = 30'	
DRAWN BY: SDL	
CHECKED BY: MJM	

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



SITE PLAN DETAIL - SOUTH

SCALE: 1"=20'-0"

EXISTING LEGEND

- EXISTING PROPERTY LINE (APPROXIMATE)
- EXISTING RIGHT OF WAY LINE (APPROXIMATE)
- EXISTING BUILDING
- EXISTING CURB
- EXISTING SIDEWALK
- EXISTING EDGE OF MACADAM/GRAVEL
- EXISTING TRAFFIC MARKING
- EXISTING FENCE
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- PROPOSED ADA RAMP
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED WALL
- PROPOSED STOP BAR/PAVEMENT MARKING
- PROPOSED FENCE
- PROPOSED SIGN
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED CONSTRUCTION FENCE

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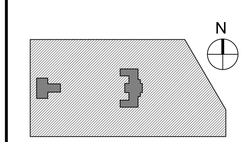

DRAWING TITLE
SITE IMPROVEMENT PLAN SOUTH

PROJECT NO: KLMLX21003	DRAWING NO: C-101-R.2
DATE: 08/28/23	
SCALE: 1" = 20'	
DRAWN BY: SDL	
CHECKED BY: MJM	

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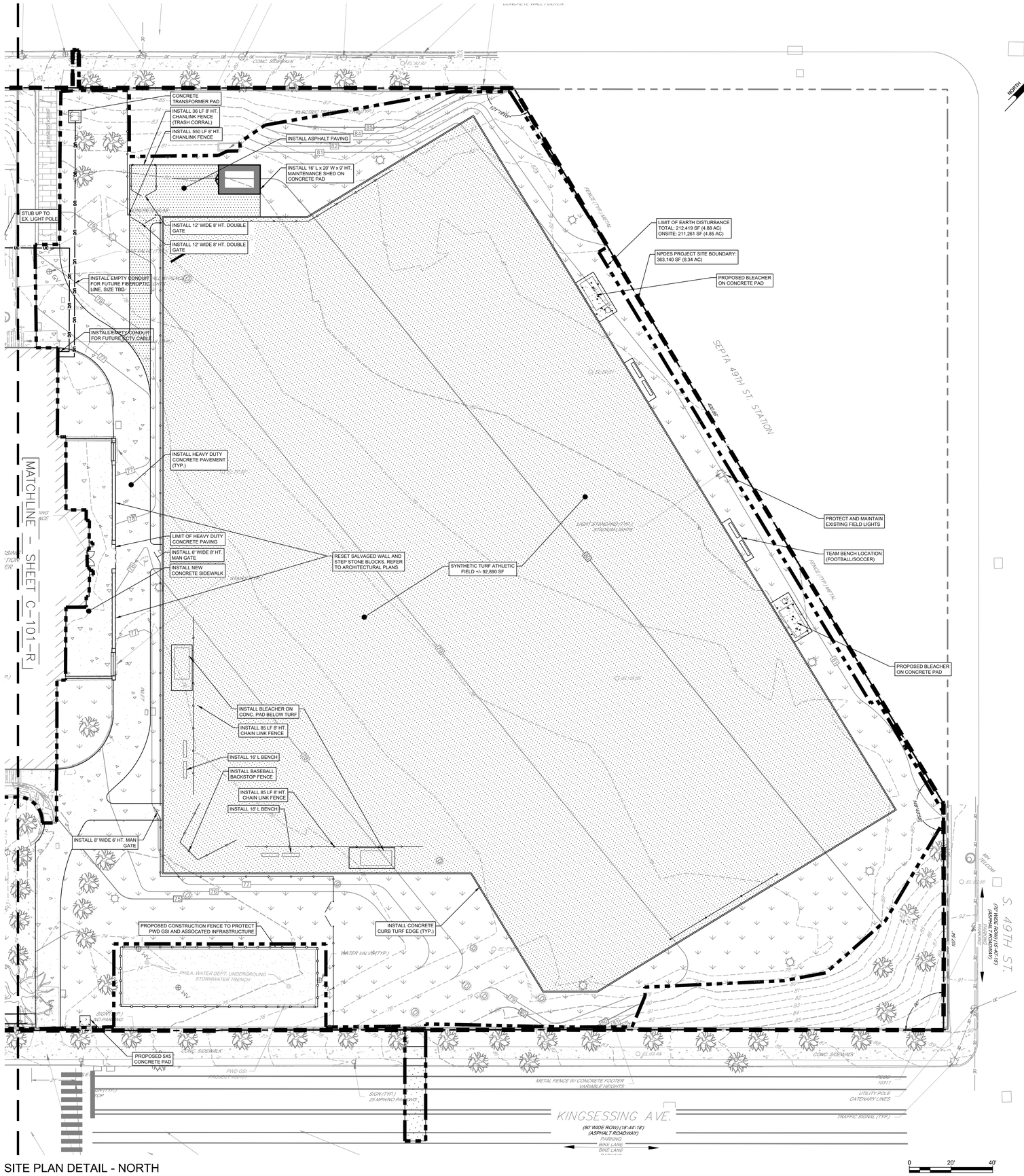

SITE PLAN DETAIL - NORTH

SCALE: 1"=20'-0"

0 20' 40'

EXISTING LEGEND

- EXISTING PROPERTY LINE (APPROXIMATE)
- EXISTING RIGHT OF WAY LINE (APPROXIMATE)
- EXISTING BUILDING
- EXISTING CURB
- EXISTING SIDEWALK
- EXISTING EDGE OF MACADAM/GRAVEL
- EXISTING TRAFFIC MARKING
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- EXISTING UTILITY STRUCTURES

PROPOSED LEGEND

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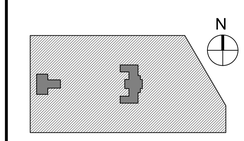

DRAWING TITLE
SITE IMPROVEMENT PLAN NORTH

PROJECT NO:	KLMLX21003
DATE:	08/28/23
SCALE:	1" = 20'
DRAWN BY:	SDL
CHECKED BY:	MJM
DRAWING NO:	C-102-R.2

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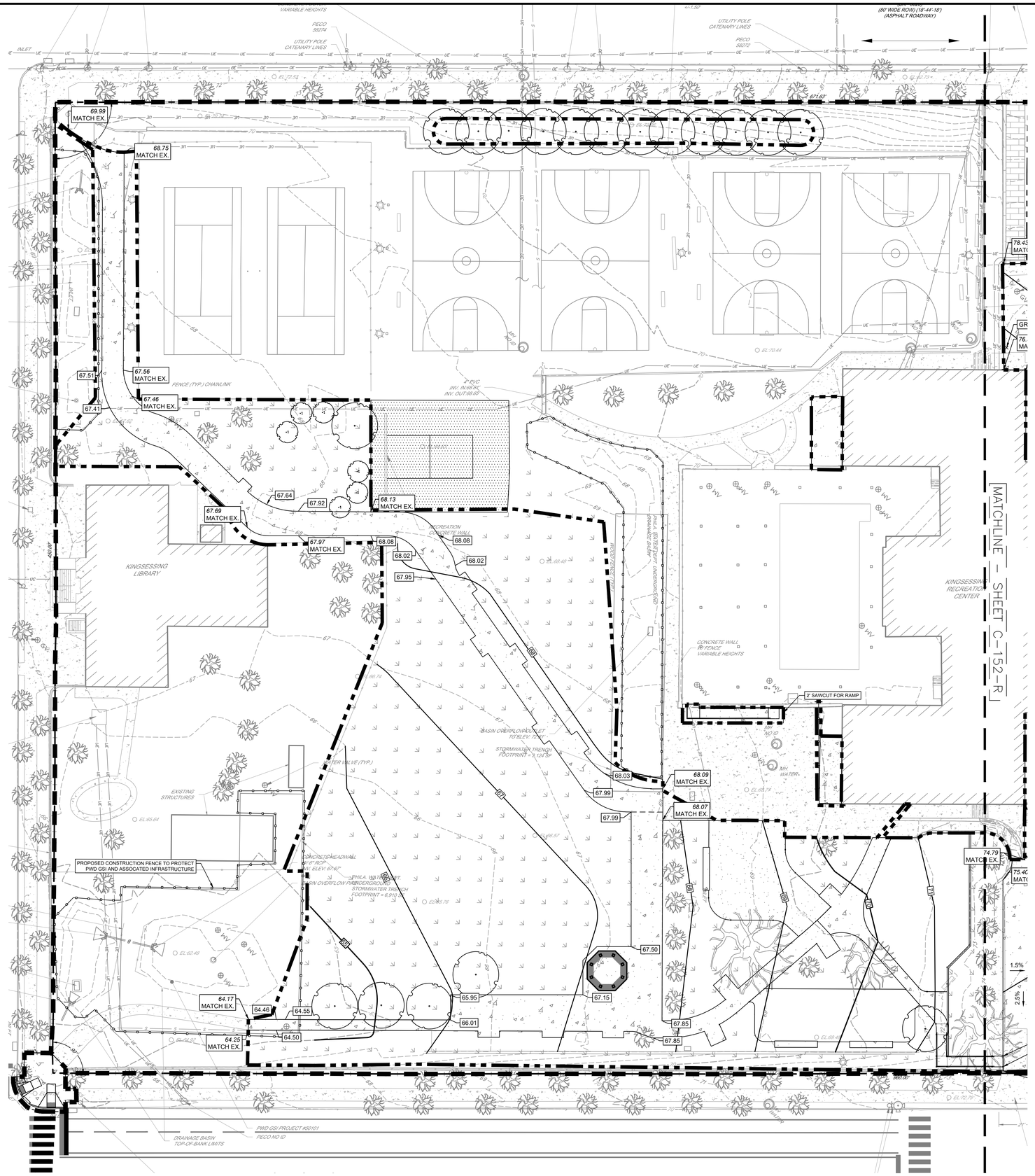

GRADING PLAN DETAIL SOUTH

SCALE: 1"=20'-0"

GRADING AND EARTHWORK NOTES:

1. A GEOTECHNICAL ENGINEER IS REQUIRED TO INSPECT, TEST AND CERTIFY TO THE COMPACTION OF ALL LOAD BEARING FILLS. ALL EXISTING UNDERGROUND UTILITIES SHALL BE REMOVED OR RELOCATED. THE PREPARED SUBGRADE SHALL BE PROOF ROLLED WITH A SMOOTH-DRUM VIBRATING ROLLER TO DELINEATE SOFT/UNSTABLE AREAS AND COMPACT SOILS DISTURBED DURING EXCAVATION OPERATIONS. AREAS WHICH EXHIBIT INSTABILITY SHALL BE UNDERCUT AND REPLACED WITH LOAD-BEARING FILL.
2. MINIMUM PAVEMENT GRADE SHALL BE 1.0% SLOPE UNLESS NOTED OTHERWISE.
3. BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS. ADDITIONAL BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES AND WET AREAS. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.
4. COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THEORETICAL MAXIMUM DRY DENSITY (ASTM D698). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED IN LIFTS NOT TO EXCEED 6 INCHES IN COMPACTED FILL THICKNESS. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR WILL INSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
6. THE CONTRACTOR SHALL PROVIDE ANY AND ALL EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
7. SOILS TESTING AND ON-SITE INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. THE SOILS ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, THE OWNER AND THE OWNER'S REPRESENTATIVE AND SHALL PROMPTLY NOTIFY THE OWNER, HIS REPRESENTATIVE AND THE CONTRACTOR, SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS.
8. CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AREA AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
9. MAXIMUM SIDEWALK CROSS SLOPE IS 2% AND MINIMUM SIDEWALK CROSS SLOPE IS 1.0% WITHIN THE CITY RIGHT OF WAY.
10. ELEVATIONS ARE BASED ON CITY OF PHILADELPHIA VERTICAL DATUM.
11. REFER TO GEOTECHNICAL REPORT FOR BELOW GRADE CONDITIONS AND SITE PREPARATION/ EXCAVATION REQUIREMENTS.
12. ALL UTILITY VALVES AND MANHOLE STRUCTURES WITHIN THE SIDEWALKS AND ROADWAYS SHALL BE ADJUSTED TO THE PROPOSED GRADES AS NECESSARY. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY.
13. FILL CAN BE REUSED AS A COMPACTED FILL FOR BACKFILL, AS LONG AS IT IS FREE OF TRASH, ENVIRONMENTAL HAZARDS, AND OTHER DELETERIOUS MATERIAL. ADJUSTING MOISTURE CONTENT PRIOR TO FILL PLACEMENT SHOULD BE EXPECTED
14. ALL DIMENSIONS SHOWN ARE IN US SURVEY FEET (US) UNLESS DESIGNATED CITY OF PHILADELPHIA DISTRICT STANDARD MEASURE (DS).
15. THE DISTRICT STANDARD FOR CONVERSION IS U.S. = DS X 1.0025
16. DEMOLITION DEBRIS, ASSOCIATED WITH THE STRUCTURE TO BE REMOVED CONSISTING OF CONCRETE AND OTHER MASONRY PRODUCTS CAN BE CRUSHED AND REUSED IN NEW LOAD-BEARING FILL, PROVIDED IT IS FREE OF THE LIMITATIONS DESCRIBED IN NOTE #13 ABOVE.
17. CONTROLLED/COMPACTED FILL SHALL BE PLACED IN EARLY STAGES OF CONSTRUCTION TO ALLOW FOR SITE SETTLEMENT DURING CONSTRUCTION OF BUILDING.
18. ALL SITE PREPARATION AND EARTHWORK OPERATIONS SHALL BE CARRIED OUT IN THE FULL-TIME PRESENCE OF A QUALIFIED REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER.
19. WHERE OBSTRUCTIONS SUCH AS CONCRETE, FOUNDATIONS, BRICK, AND WOOD ARE ENCOUNTERED ABOVE THE COMPRESSIBLE LAYERS, PRE-DRILLING FOR THE PVDs WILL BE REQUIRED; THEREFORE, CONSIDERABLE EXTRA COSTS COULD BE INVOLVED AND A CONTINGENCY FOR PREDRILLING SHOULD BE CARRIED IN THE CONSTRUCTION BUDGET. THE RUBBLE FROM DEMOLITION SHOULD BE CRUSHED OR STAGED FOR REUSE AND IMPORTED FILL SHOULD NOT CONTAIN EXCESS OVERSIZE MATERIALS THAT WOULD PREVENT THE DIRECT PUSH INSTALLATION OF THE WICK DRAINS.
20. GIVEN THE LIMITED WORK AREA, IT WILL BE IMPORTANT TO MAINTAIN POSITIVE DRAINAGE ACROSS THE SITE. A DRAINAGE BLANKET CONSISTING OF GRAVEL OR SAND WITH LESS THAN 10 PERCENT FINES SHOULD BE PLACED ACROSS THE WORK AREA BEFORE PLACING ALL OF THE FILL. THE BLANKET SHOULD BE AT LEAST 12 INCHES THICK AND SHOULD CONVEY WATER TO A PERIMETER DITCH. ALTERNATIVELY, OR IN COMBINATION WITH THE DRAINAGE BLANKET, HORIZONTAL STRIP DRAINS CAN BE ATTACHED TO THE VERTICAL DRAINS.
21. ALL FILL MATERIALS, INCLUDING SURCHARGE SOILS, SHOULD BE PLACED IN 8- TO 10-INCH THICK LIFTS AND BE COMPACTED TO A MINIMUM OF 95 OF THE MAXIMUM DRY DENSITY IN GENERAL ACCORDANCE WITH ASTM D698. THE FILL SOILS SHOULD HAVE AN IN-PLACE WET WEIGHT OF ABOUT 125 TO 130 POUNDS PER CUBIC FOOT TO BE CONSISTENT WITH THE LOADINGS ASSUMED IN OUR ANALYSIS.
22. FOLLOWING THE STRIPPING OF ASPHALT AND ORGANIC MATERIALS, IF FILL MATERIALS ARE REQUIRED THE EXPOSED SUBGRADE SOILS SHOULD BE EVALUATED. IDEALLY, THE EVALUATION SHOULD CONSIST OF PROOFROLLING AND COMPACTING THE SOILS TO A DENSE AND UNYIELDING CONSISTENCY BY SEVERAL PASSES OF A LOADED TRIAXLE DUMP TRUCK, OFF-ROAD DUMP TRUCK, OR LARGE SMOOTH DRUM VIBRATORY COMPACTOR WITH A STATIC DRUM WEIGHT OF AT LEAST TEN TONS, ALTHOUGH SOME OTHER METHOD MAY BE DEEMED MORE APPROPRIATE BY THE GEOTECHNICAL ENGINEER DEPENDING ON THE PREVAILING WEATHER CONDITIONS. SOILS THAT ARE OBSERVED TO BE SOFT OR UNSTABLE DURING THE EVALUATION SHOULD BE SELECTIVELY OVER-EXCAVATED, AND THE RESULTANT EXCAVATIONS SHOULD BE BACKFILLED WITH CONTROLLED COMPACTED FILL.
23. UPON SATISFACTORY EVALUATION OF THE SUBGRADE, STRUCTURAL FILL SHOULD BE PLACED IN LIFTS AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS INCLUDED IN THIS REPORT. THE MATERIALS WILL TYPICALLY NEED TO BE WITHIN 2 TO 3 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT BEFORE COMPACTIVE EFFORT IS APPLIED. OFF-SITE BORROW SHOULD GENERALLY MEET UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) DESIGNATION SM, SP-SM, GP-GM, GM, OR GW AND BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO USE. CONSIDERATION OF OFF-SITE BORROW MEETING OTHER USCS CLASSIFICATIONS WOULD BE MADE BY THE GEOTECHNICAL ENGINEER BASED ON THE LOCATION AND DEPTH TO WHICH THOSE MATERIALS ARE PLACED.
24. ALL STRUCTURAL FILL SHOULD BE CONSTRUCTED IN MAXIMUM 8-INCH THICK LOOSE LIFTS AND BE COMPACTED TO 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY, WITH MOISTURE CONTENTS WITHIN 3 PERCENTAGE POINTS OF OPTIMUM FOR COMPACTION.
25. ALL TEMPORARY SURCHARGE FILL SHALL BE CONSTRUCTED IN MAXIMUM 8-INCH THICK LOOSE LIFT AND BE COMPACTED TO 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY, WITH MOISTURE CONTENTS WITHIN 3 PERCENTAGE POINTS OF OPTIMUM FOR COMPACTION.
26. FILL SUBGRADES AND EACH LIFT OF FILL SHOULD BE OBSERVED AND TESTED BY A SOILS TECHNICIAN ON A FULL-TIME BASIS, UNDER THE SUPERVISION OF A REGISTERED ENGINEER AS REQUIRED PER THE INTERNATIONAL BUILDING CODE. ALL COMPACTIVE EFFORT SHOULD BE VERIFIED BY IN-PLACE DENSITY TESTING. NEW FILLS CONSTRUCTED ON SLOPES STEEPER THAN 5H:1v (HORIZONTAL TO VERTICAL) SHOULD BE KEYED INTO EXISTING SLOPED FOR STABILITY CONSIDERATIONS. GTA RECOMMENDS THAT ALL PERMANENT SLOPES SHOULD BE GRADED 3H:1V OR FLATTER. ALL FILL SLOPES STEEPER THAN 5H:1V SHOULD GENERALLY BE PLACED AS STRUCTURAL FILL AND BE CONTROLLED AND COMPACTED TO MINIMUM DENSITIES AS SPECIFIED ABOVE.
27. POSITIVE DRAINAGE SHALL BE MAINTAINED ACROSS THE SITE DURING CONSTRUCTION TO PREVENT PONDING OF WATER, SINCE THE EXPOSED SUBGRADES COULD DESTABILIZE IN COMBINATION WITH CONSTRUCTION TRAFFIC AND PRECIPITATION. FURTHERMORE, HEAVY CONSTRUCTION TRAFFIC SHOULD GENERALLY BE RUN ON DESIGNATED HAUL ROADS DURING PERIODS OF WET WEATHER TO REDUCE THE POTENTIAL FOR DESTABILIZATION OF MORE SUBGRADE AREAS THAN NECESSARY. IF THE SUBGRADE IS DISTURBED BY CONSTRUCTION TRAFFIC AND BECOMES UNSTABLE, UNDERCUTTING AND REPLACEMENT OF THESE SUBGRADE MATERIALS WILL LIKELY BE REQUIRED.

EXISTING LEGEND

- EXISTING PROPERTY LINE (APPROXIMATE)
- EXISTING RIGHT OF WAY LINE (APPROXIMAT
- EXISTING BUILDING
- EXISTING CURB
- EXISTING SIDEWALK
- EXISTING EDGE OF MACADAM/GRAVEL
- EXISTING TRAFFIC MARKING
- EXISTING FENCE
- EXISTING TREE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SIGN
- EXISTING BOLLARD
- EXISTING UTILITY POLE
- EXISTING LIGHT
- EXISTING INLET
- S — EXISTING SEWER
- D — EXISTING STORM SEWER
- W — EXISTING WATER LINE
- UT — EXISTING UNDERGROUND TELEPHONE LINE
- UG — EXISTING GAS LINE
- UE — EXISTING UNDERGROUND ELECTRIC
- OE — EXISTING OVERHEAD WIRES
- EXISTING UTILITY STRUCTURES

PROPOSED LEGEND

- PROPOSED BUILDING
- M — PROPOSED DOOR
- PROPOSED CONCRETE PAVEMENT
- PROPOSED ASPHALT PAVEMENT
- PROPOSED LANDSCAPED AREA
- PROPOSED UNIT PAVERS
- PROPOSED POROUS PLAYGROUND SAFETY SURFACE (DIC)
- PROPOSED SYNTHETIC TURF FIELD
- PROPOSED ADA RAMP
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED WALL
- PROPOD STOP BAR/PAVEMENT MARKING
- PROPOSED FENCE
- PROPOSED SIGN
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED CONSTRUCTION FENCE
- 5 — PROPOSED MAJOR CONTOUR
- 6 — PROPOSED MINOR CONTOUR
- 6.45 — PROPOSED SPOT ELEV.
- LP 6.00 — PROPOSED LOW POINT ELEV.
- TC 7.50 — PROPOSED TOP OF CURB ELEV.
- BC 7.00 — PROPOSED BOTTOM OF CURB ELEV.

PACKAGE 2 - IFB
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08/28/23
NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

REVISIONS

ISSUE	DATE	DESCRIPTION
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REVIEWED BY:

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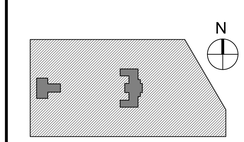
CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1515 ARCH STREET
11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
KINGSESSING RECREATION CENTER

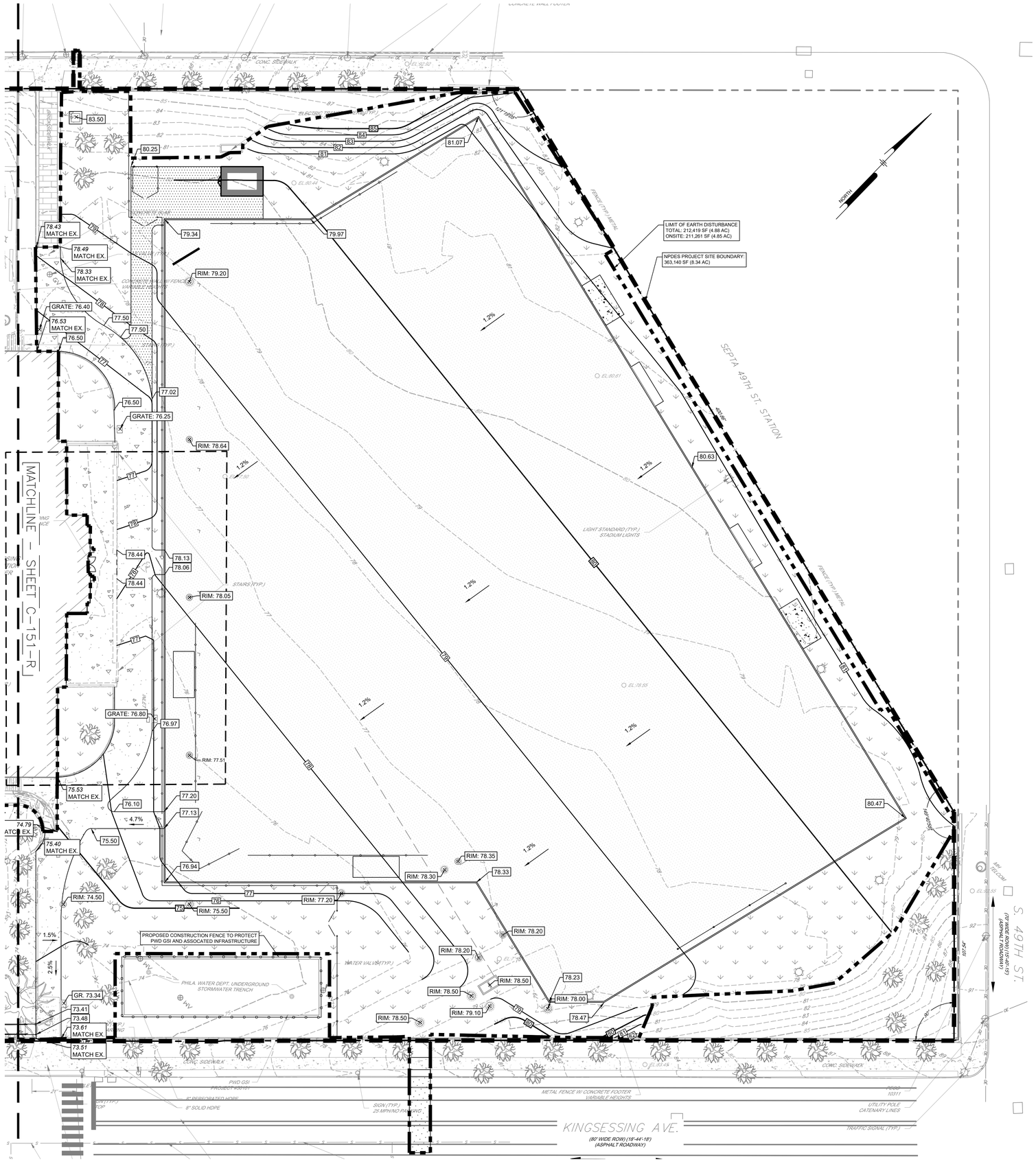
KEY PLAN



DRAWING TITLE
DETAIL GRADING PLAN SOUTH

PROJECT NO: KLMLX21003	DRAWING NO: C-151-R.2
DATE: 08/28/23	
SCALE: 1" = 20'	
DRAWN BY: SDL	
CHECKED BY: MJM	

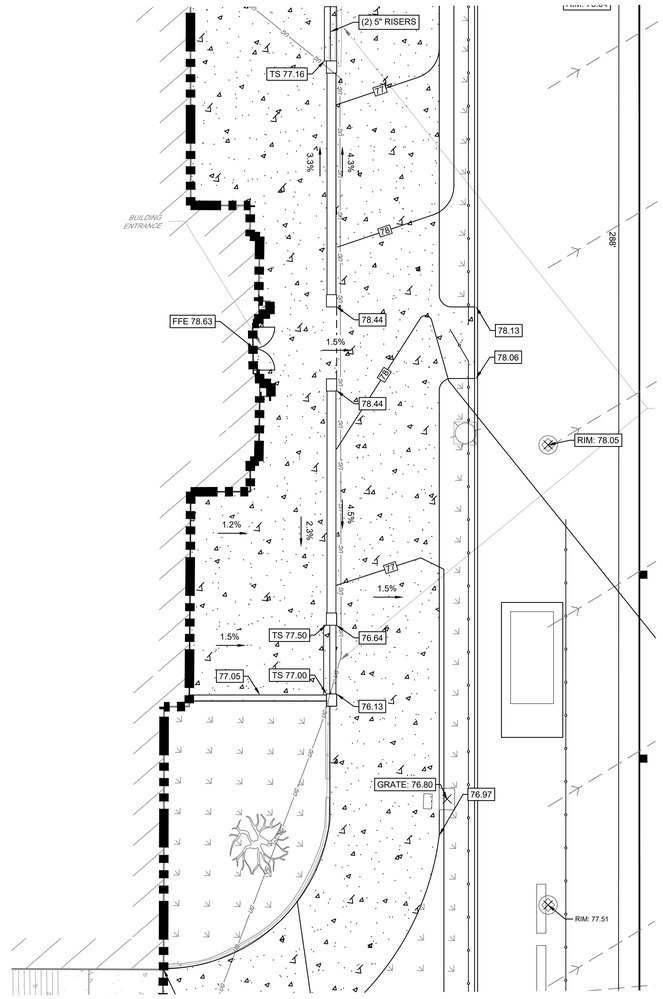
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



GRADING PLAN DETAIL - NORTH

SCALE: 1"=20'-0"

0 20' 40'



GRADING PLAN DETAIL - REC. CENTER ENTRANCE

SCALE: 1"=10'-0"

0 10' 20'

EXISTING LEGEND

- EXISTING PROPERTY LINE (APPROXIMATE)
- EXISTING RIGHT OF WAY LINE (APPROXIMATI
- EXISTING BUILDING
- EXISTING CURB
- EXISTING SIDEWALK
- EXISTING EDGE OF MACADAM/GRAVEL
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- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING GAS LINE
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- EXISTING OVERHEAD WIRES
- EXISTING UTILITY STRUCTURES

PROPOSED LEGEND

- PROPOSED BUILDING
- PROPOSED DOOR
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PA. ACT 287 OF 1974 REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE. DRILL OR BLAST PENNSYLVANIA ONE-CALL SYSTEM, INC.
SERIAL NUMBER(S): 20212583952

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08/28/23
NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

REVISIONS

ISSUE	DATE	DESCRIPTION
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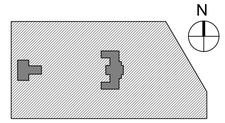
PROJECT TITLE
KINGSESSING RECREATION CENTER

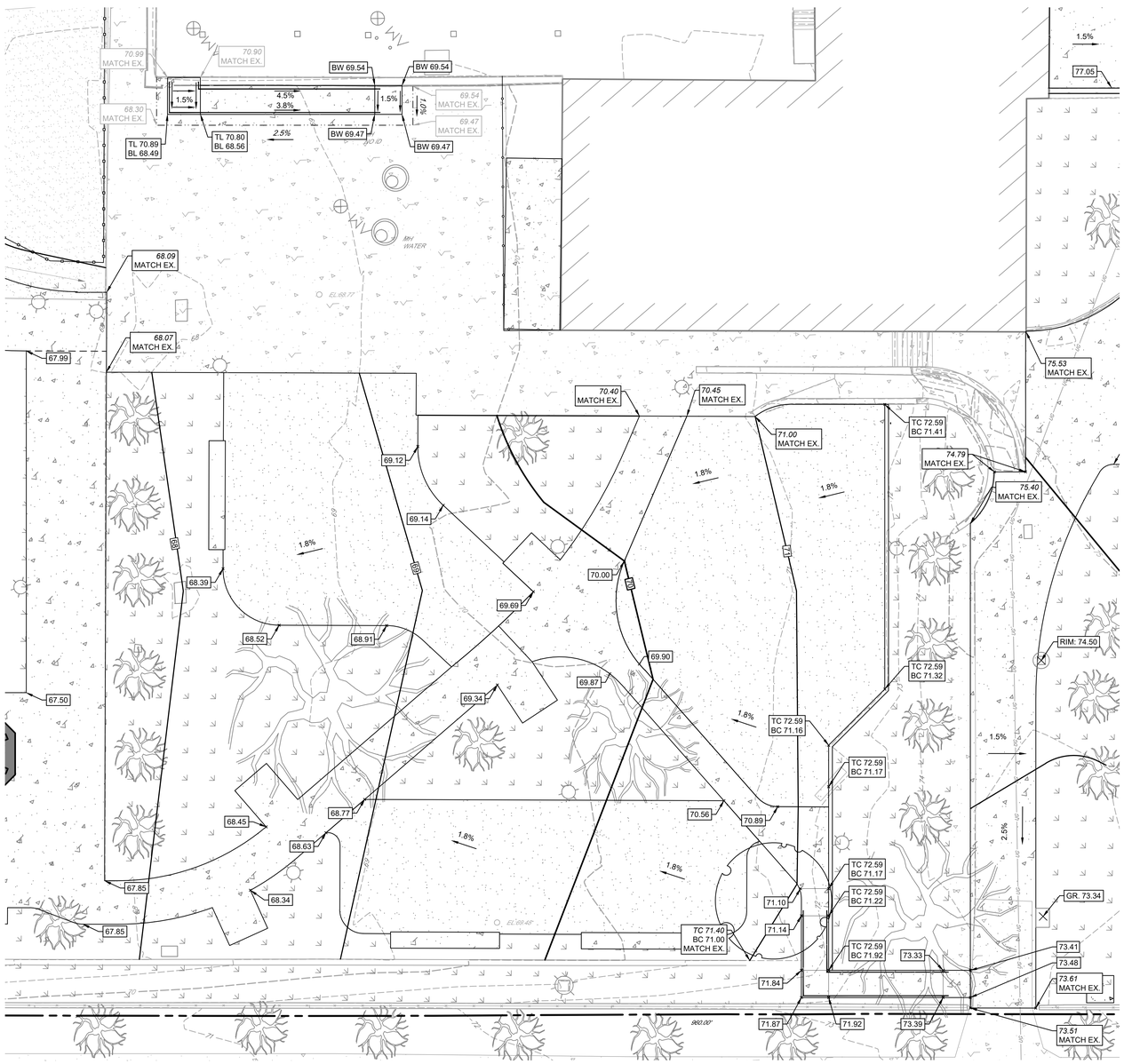
KEY PLAN:



DRAWING TITLE
DETAIL GRADING PLAN NORTH

PROJECT NO: KLMLX21003	DRAWING NO: C-152-R.2
DATE: 08/28/23	
SCALE: AS NOTED	
DRAWN BY: SDL	
CHECKED BY: MJM	

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



GRADING PLAN DETAIL - PLAYGROUND

SCALE: 1"=10'-0"

0 10' 20'

NORTH

EXISTING LEGEND

- EXISTING PROPERTY LINE (APPROXIMATE)
- EXISTING RIGHT OF WAY LINE (APPROXIMATE)
- EXISTING BUILDING
- EXISTING CURB
- EXISTING SIDEWALK
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PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23

NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

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ISSUE	DATE	DESCRIPTION
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3	05/24/23	PWD PCSM RESUBMISSION

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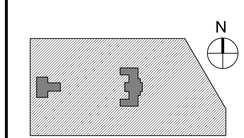
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
KINGSESSING RECREATION CENTER

KEY PLAN



DRAWING TITLE
DETAIL GRADING PLAN PLAYGROUND

PROJECT NO. KLMLX21003	DRAWING NO. C-153-R.2
DATE 08/28/23	
SCALE 1" = 10'	
DRAWN BY SDL	
CHECKED BY MJM	

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

SITE PLAN DETAIL

SCALE: 1"=20'-0"

ATHLETIC EVENT GRAPHICS - STADIUM FIELD

SYNTHETIC TURF ATHLETIC FIELD GRAPHICS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERMANENT COLORED TURF AND/OR INLAY OF ANY AND ALL PIAA REGULATION AND LINES AFFILIATED WITH FOOTBALL, SOCCER, LACROSSE, BASEBALL, AND SOFTBALL EVENTS. THE CONTRACTOR SHALL SUBMIT A LAYOUT PLAN OF ALL LINES AND GRAPHICS TO BE INCLUDED TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO FINALIZING SYNTHETIC TURF MANUFACTURING.

FOOTBALL - INCLUDING ALL FIELD MARKINGS NECESSARY FOR PERFORMANCE OF SPORT.
(160' X 360') COLOR: WHITE

SOCCER - INCLUDING ALL FIELD MARKINGS NECESSARY FOR PERFORMANCE OF SPORT.
(225' X 360') COLOR: YELLOW

LACROSSE - INCLUDING ALL FIELD MARKINGS NECESSARY FOR PERFORMANCE OF SPORT.
(160' X 360') COLOR: RED

BASEBALL/SOFTBALL - INCLUDING ALL FIELD MARKINGS NECESSARY FOR PERFORMANCE OF SPORT.
COLOR: CAROLINA BLUE

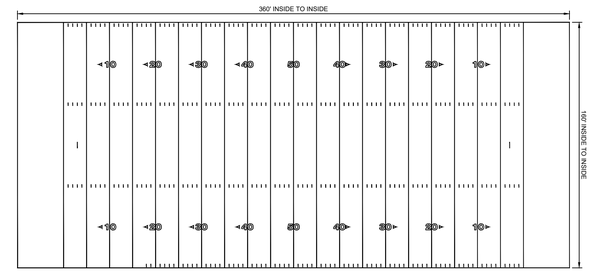
FIELD LINE GRAPHICS - LINE SEQUENCE:

THE FOLLOWING COLOR SEQUENCE DELINEATES THE ORDER (HIGHEST PRIORITY TO LOWEST PRIORITY?) IN WHICH THE INSTALLATION OF THE FIELD LINES SHALL GRAPHICALLY TAKE PRECEDENCE.

1. WHITE FIELD LINES
2. YELLOW FIELD LINES
3. RED FIELD LINES
4. CAROLINA BLUE FIELD LINES

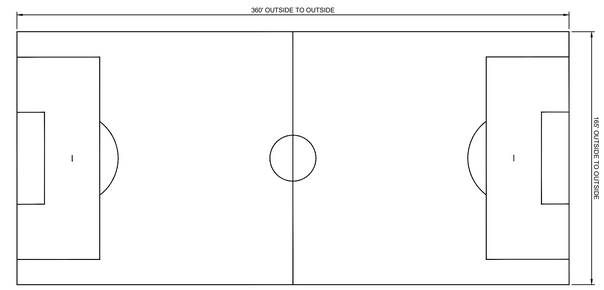
NOTES:

A. ALL FIELD LAYOUT DIMENSIONS SHALL CONFORM TO THE NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS.
B. NO FIELD DELINEATION DOTS SHALL BE OBLITERATED BY OTHER FIELD GRAPHICS.
C. CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS FOR APPROVAL PRIOR TO FIELD INSTALLATION.



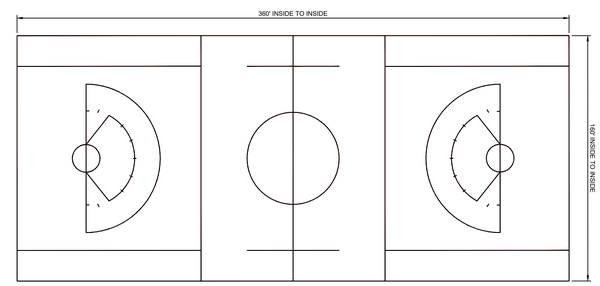
FOOTBALL LINES - WHITE

NOT TO SCALE



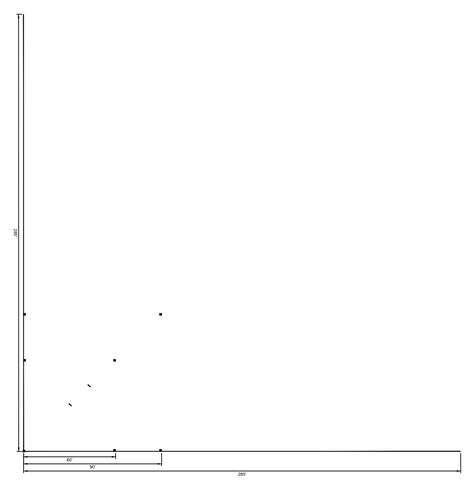
SOCCER LINES - YELLOW

NOT TO SCALE



LACROSSE LINES - BOY/GIRL UNIFIED - RED

NOT TO SCALE



BASEBALL AND SOFTBALL - CAROLINA BLUE

NOT TO SCALE

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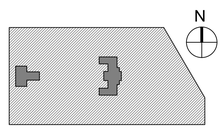
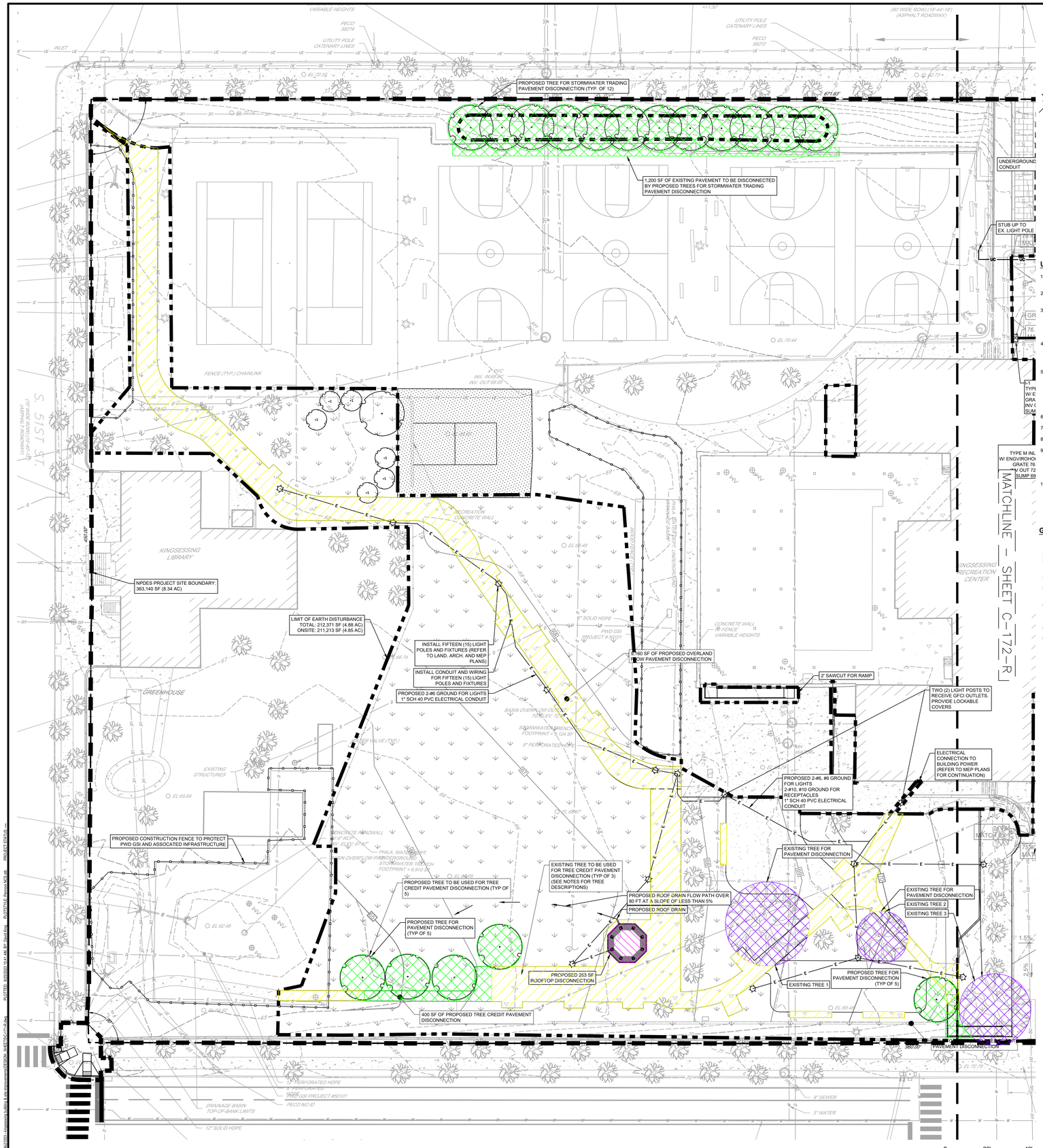


DRAWING TITLE

SYNTHETIC TURF FIELD
SPORTS STRIPING PLAN

PROJECT NO. KLMLX21003	DRAWING NO. CS154-R.2
DATE 08/28/23	
SCALE 1" = 20'	
DRAWN BY: SDL	
CHECKED BY: MJM	

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



UILITY PLAN DETAIL - SOUTH

SCALE: 1"=20'-0"

UTILITY NOTES:

1. ALL PIPE LENGTHS AND DISTANCES BETWEEN STRUCTURES ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE ALONG A HORIZONTAL PLANE.
2. ALL STORM DRAINAGE PIPE SHALL BE LAID ON SMOOTH CONTINUOUS GRADES WITH NO VISIBLE BENDS AT JOINTS.
3. BEDDING REQUIREMENTS SPECIFIED IN THE CONSTRUCTION DOCUMENTS ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS. ADDITIONAL BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES AND WET AREAS. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.
4. COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THEORETICAL MAXIMUM DRY DENSITY (ASTM D698). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED IN LIFTS NOT TO EXCEED 6 INCHES IN COMPACTED FILL THICKNESS.
5. THE CONTRACTOR WILL INSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
6. EXISTING UTILITY LATERALS FOR THE PREVIOUS USE ARE NOT TO BE REUSED.
7. CONTRACTOR MUST APPLY FOR ALL UTILITY CONNECTION APPLICATIONS.
8. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY CONNECTION FEES.
9. UTILITY CONNECTION AND UTILITY COMPANY DETAILS FOR RECONNECTION AND NEW SERVICE WERE NOT PROVIDED BY THE UTILITY COMPANIES. CONTRACTOR MUST OBTAIN ANY UTILITY DETAILS FOR RECONNECTION OF EXISTING SERVICES OR NEW SERVICE AND IS RESPONSIBLE FOR THE CONSTRUCTION OF EACH NEW SERVICE PER THE APPROPRIATE UTILITY COMPANY'S SPECIFICATIONS.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THESE PLANS; HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR
11. THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES AND APPURTENANCES TO MINIMIZE DISTURBANCE TO CURBING, PAVING, AND COMPACTED SUBGRADE.
12. UTILITY COORDINATION SHALL BE INCLUDED IN THE PROJECT SCHEDULE AND IT IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE PROJECT SCHEDULE INCLUDES THE NECESSARY RELOCATION. THE CONTRACTOR WILL NOT BE PAID ADDITIONALLY FOR THIS COORDINATION. THE CONTRACTOR SHOULD SEEK ASSISTANCE FROM ALL UTILITY COMPANIES TO LOCATE AND PROTECT THEIR FACILITIES.
13. CONTRACTOR SHALL EXCAVATE ONLY AS MUCH TRENCH WHICH PIPE CAN BE INSTALLED AND TRENCH BACKFILLED BY THE END OF EACH WORK DAY.
14. ALL UNDERGROUND UTILITY TRENCHES SHALL BE BACKFILLED WITH SAFE CLEAN FILL.
15. ALL INLETS AND DRAINAGE STRUCTURES TO BE INSTALLED WITH TRAPS.
16. ALL TRENCHES SHALL BE PROPERLY SECURED AND BRACED.
17. CONTRACTOR RESPONSIBLE FOR ANY STREET LIGHTING PECO SERVICE APPLICATIONS.
18. "D" PERMITS ARE REQUIRED FOR ANY EXISTING SERVICE CONNECTIONS TO BE ABANDONED, CONTACT L&I WATER PERMIT ISSUANCE UNIT AT 215-686-2577/78.
19. THE PROPOSED STORM AND SEWER LATERALS CONNECTIONS MUST BE COORDINATED WITH THE PWD WATER TRANSPORT RECORDS. CONTACT MR. ERIK SMITH'S OFFICE AT 215-685-6270.
20. ALL EXISTING UTILITY COVERS, RIMS, CASTING AND INLET TOPS OR GRATES MUST BE ADJUSTED TO THE PROPOSED GRADE, UNLESS OTHERWISE INDICATED.
21. CONTACT STREET LIGHTING ENGINEER, KRISTEN DEL ROSSI, AT (215) 686-5517 TO COORDINATE LED LIGHT FIXTURE REPLACEMENT.
22. FLOW PRESSURE TO ALL FIRE HYDRANTS SHALL HAVE MINIMUM 600 GALLONS PER MINUTE AT A MINIMUM RESIDUAL PRESSURE OF 20 POUNDS PER SQUARE INCH.
23. MAINTAIN AND PROTECT EXISTING INLETS & HYDRANTS. SHOULD THE EXISTING INLETS OR HYDRANTS BE IN ANY WAY DAMAGED DURING CONSTRUCTION, THESE SHOULD BE REPAIRED TO THE SATISFACTION OF THE PWD INSPECTOR OR REPLACED PER PWD STANDARDS.
24. CONTRACTOR TO PROVIDE TEMPORARY LIGHTING FOR ANY STREET LIGHTS THAT ARE TEMPORARILY REMOVED OR TAKEN OUT OF SERVICE DURING CONSTRUCTION.

GREEN STORMWATER INFRASTRUCTURE NOTES

1. THE CONTRACTOR PERFORMING THE GREEN STORMWATER INFRASTRUCTURE INSTALLATION MUST BE PREQUALIFIED BY THE PHILADELPHIA WATER DEPARTMENT (PWD) CONTACT MS. TRISHA GRACE OF THE PROJECTS MANAGEMENT UNIT AT (215) 685-6336.
2. THE APPROVED WORK SHALL BE DONE IN THE PRESENCE OF A PWD INSECTOR.
3. THE CONTRACTOR PERFORMING THIS WORK IS TO NOTIFY THE PWD CONSTRUCTION DIVISION,1101 MARKET STREET, 2ND FLOOR , PHONE (215) 685-6345, AT LEASET 7 DAYS IN ADVANCE FOR ASSIGNMENT OF AN INSPECTOR TO THE JOB.
4. THE CONTRACTOR MUST PROVIDE OFFICE SPACE FOR USE BY THE PWD INSPECTOR DURING CONSTRUCTION.
5. APPROVAL OF THESE PLANS BY THE WATER DEPARTMENT IS STRICTLY LIMITED TO THE DESIGN OF GREEN STORMWATER INFRASTRUCTURE SHOWN WITHIN THE LIMITS OF THE CITY OF PHILADELPHIA PUBLIC RIGHT OF WAY.
6. CONTACT PWD-WATER TRANSPORTATION RECORDS, 1101 MARKET STREET, 2ND FLOOR, PHONE (215) 685-6271, FOR ADDITIONAL APPROVALS AND PERMITS REQUIRED FOR ALL SEWER CONNECTIONS TO EXISTING AND/OR PROPOSED PWD FACILITIES.
7. FIELD-FABRICATED WYE BRANCHES AND BENDS ARE NOT PERMITTED
8. A LIST OF ALL MATERIALS AND SUPPLIERS MUST BE SUBMITTED TO THE PWD CONSTRUCTION BRANCH FOR APPROVAL.
9. THE CONTRACTOR OR ENGINEER IS RESPONSIBLE FOR OBTAINING ALL ADDITIONAL PERMITS AND APPROVALS FROM ALL AFFECTED CITY AGENCIES AND UTILITIES.
10. PRIOR TO OBTAINING A BUILDING PERMIT, THE CONTRACTOR IS REQUIRED TO OBTAIN PWD STORMWATER MANAGEMENT APPROVAL, AND SEWAGE FACILITIES PLANNING (ACT 537) APPROVAL.
11. ANY CHANGE TO, OR DEVIATION FROM, THE FINAL APPROVED DESIGN PLANS DURING CONSTRUCTION MUST BE APPROVED BY THE ASSIGNED PWD-CONSTRICTION DIVISION ENGINEER AND BY THE PWD DESIGN PROJECT ENGINEER.
12. PWD RESERVES THE RIGHT TO REQUEST ADDITIONAL BORINGS DURING CONSTRUCTION SHOULD THE SOIL EXCAVATED IN THAT AREA APPEAR TO BE UNSUITABLE.
13. ANY TRENCH WHERE THE CUT IS DEEPER THAN 10 FEET WILL REQUIRE A DETAILED SHORING PLAN PREPARED BY A REGISTERED PROFESSIONAL ENGINEER TO BE SUBMITTED TO PWD FOR APPROVAL BEFORE WORK CAN BEGIN.
14. PLACE AND COMPACT BACKFILL IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR EXCAVATION, REFILLING, GRADING, LANDSCAPING AND REPAVING.
15. ALL SIDEWALK AND CURBING TO BE REPLACED IN KIND ALONG FULL LIMITS OF CONSTRUCTION TO NEXT EXISTING JOINT OR AS DIRECTED BY PWD.
16. MAINTAIN AND PROTECT EXISTING INLETS. SHOULD EXISTING INLETS BE IN ANYWAY DAMAGED DURING CONSTRUCTION , THESE SHOULD BE REPAIRED TO THE SATISFACTION OF THE PWD INSPECTOR OR REPLACED PER PWD STANDARDS.
17. CONTRACTOR MUST COMPLY WITH EROSION AND SEDIMENT CONTROL REQUIREMENTS DURING CONSTRUCTION. SEE PWD REGULATION 501.3 AND 6004, PHILA CODE S. 13-603, AND 25 PA CODE CHAPTER 102.
18. SUFFICIENT EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR AS TO PREVENT STANDING WATER OR SEDIMENTATION OF STORMWATER SYSTEMS. GREEN STORMWATER INFRASTRUCTURE 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.
19. CONTRACTOR IS REQUIRED TO UNDERTAKE NECESSARY MEASURES TO PREVENT SEDIMENT FROM LEAVING THE WORK SITE, TO PREVENT EROSIVE CONDITIONS, AND TO SUPPRESS DUST ON THE SITE AND SURROUNDING AREAS. CONTRACTOR MUST COVER AND SURROUND STOCKPILES WITH EROSION CONTROL MEASURES TO ENSURE SEDIMENT DOES NOT MIGRATE INTO THE PUBLIC ROW OR ENTER THE PUBLIC SEWER. IF CONTRACTOR IS HAND DIGGING OR EXCAVATING, CONTRACTOR MUST SWEEP WORK SITE AT THE END OF EACH WORK DAY. THE CITY MAY REQUIRE THE CONTRACTOR / OWNER TO CLEAN CITY-OWNED INLETS AND SYSTEMS AFFECTED BY NONCOMPLIANT OR FAILED E&S CONTROLS.
20. CONTRACTOR MUST INSTALL INLET PROTECTION MEASURES AT ALL INLETS ADJACENT TO OR WITHIN THE WORK AREA. INLET PROTECTION MEASURES MUST BE INSPECTED DAILY TO ENSURE PROPER PLACEMENT, AND MAINTAINED, POSITIONED OR REPLACED AS NEEDED TO ENSURE PROPER FUNCTION AND TO PREVENT FLOODING. REFER TO PWD GUIDANCE FOR APPROPRIATE MATERIALS AND PROTECTION METHODS FOR OPEN-MOUTH INLETS, HIGHWAY GRATE INLETS, TRENCH DRAINS AND CURB-CUT INLETS.
21. CONTRACTOR MUST OBTAIN PERMISSION FROM THE STREETS DEPARTMENT TO STORE ANY MATERIALS ON THE STREET.
22. ORIFICE SHOULD NOT BE DRILLED PRIOR TO AUTHORIZATION BY PWD. PWD WILL REVIEW THE RESULTS OF THE DOUBLE RING INFILTROMETER TESTS CONDUCTED AFTER SMP EXCAVATION AND WILL CONFIRM ORIFICE DIMENSIONS.
23. EROSION CONTROL MATTING SHALL BE PLACED OVER ALL SOIL SURFACES NOT STABILIZED BY PLANTING.

EXISTING LEGEND

- EXISTING PROPERTY LINE (APPROXIMATE)
- EXISTING RIGHT OF WAY LINE (APPROXIMATE)
- EXISTING BUILDING
- EXISTING CURB
- EXISTING SIDEWALK
- EXISTING EDGE OF MACADAM/GRAVEL
- EXISTING TRAFFIC MARKING
- EXISTING FENCE
- EXISTING TREE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SIGN
- EXISTING BOLLARD
- EXISTING UTILITY POLE
- EXISTING LIGHT
- EXISTING INLET
- EXISTING SEWER
- EXISTING STORM SEWER
- EXISTING WATER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD WIRES
- EXISTING UTILITY STRUCTURES

PROPOSED LEGEND

- PROPOSED BUILDING
- PROPOSED DOOR
- PROPOSED CONCRETE PAVEMENT
- PROPOSED ASPHALT PAVEMENT
- PROPOSED LANDSCAPED AREA
- PROPOSED UNIT PAVERS
- PROPOSED POROUS PLAYGROUND SAFETY SURFACE (DIC)
- PROPOSED SYNTHETIC TURF FIELD
- PROPOSED ADA RAMP
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
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- PROPOSED CABLE/TELEPHONE LINE
- PROPOSED ELECTRIC LINE
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED NPDES PROJECT SITE BOUNDARY
- PROPOSED CONSTRUCTION FENCE
- EXISTING TREE DISCONNECTION
- PROPOSED TREE DISCONNECTION
- PAVEMENT DISCONNECTION
- ROOFTOP DISCONNECTION

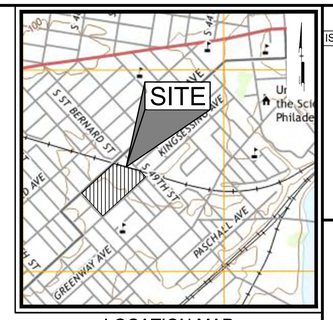
EXISTING TREES FOR PAVEMENT DISCONNECTION

TREE #	SPECIES	CALIPER DIAMETER (IN)
1	HONEY LOCUST	23.50
2	BLACK GUM	9.70
3	BLACK GUM	15.20

CALL BEFORE YOU DIG
PENNSYLVANIA ONE-CALL SYSTEM, INC.
STOP - CALL BEFORE YOU DIG!
1-800-242-1776
PENNSYLVANIA LAW REQUIRES YOU TO GIVE THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL OR BLASTS. PENNSYLVANIA ONE-CALL SYSTEM, INC.
SERIAL NUMBER: 20212583952

PACKET
NOT FOR CONSTRUCTION
08/28/23

NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01



LOCATION MAP

Scale: 1" = 1000'

WATERSHED: LOWER SCHUYLKILL RIVER
FLOOD MANAGEMENT DISTRICT: A
FEMA FLOODPLAIN: ZONE X

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
2	02/14/23	PWD PCSM RESUBMISSION
3	05/24/23	PWD PCSM RESUBMISSION

REVIEWED BY:

PROJECT COORDINATOR

SEALS

KELLY MAIELLO ARCHITECTS
1420 Walnut Street, 15th Floor
Philadelphia, PA 19102
www.kmarchitects.com

LANDSCAPE ARCHITECT:
Salt Design Studio
4100 Main Street Suite 200
Philadelphia PA 19127
www.saltdesignstudio.com

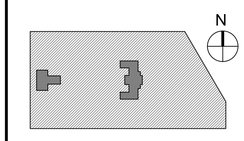
M.E.P./F.P./SITE CIVIL ENGINEERS:
Pennoni Associates
1900 Market Street Suite 300
Philadelphia PA 19103
www.pennoni.com

LEED CONSULTANT:
Verde Architecture Consulting
1635 Market Street Suite 1600
Philadelphia PA 19103

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

PROJECT TITLE
KINGSESSING RECREATION CENTER

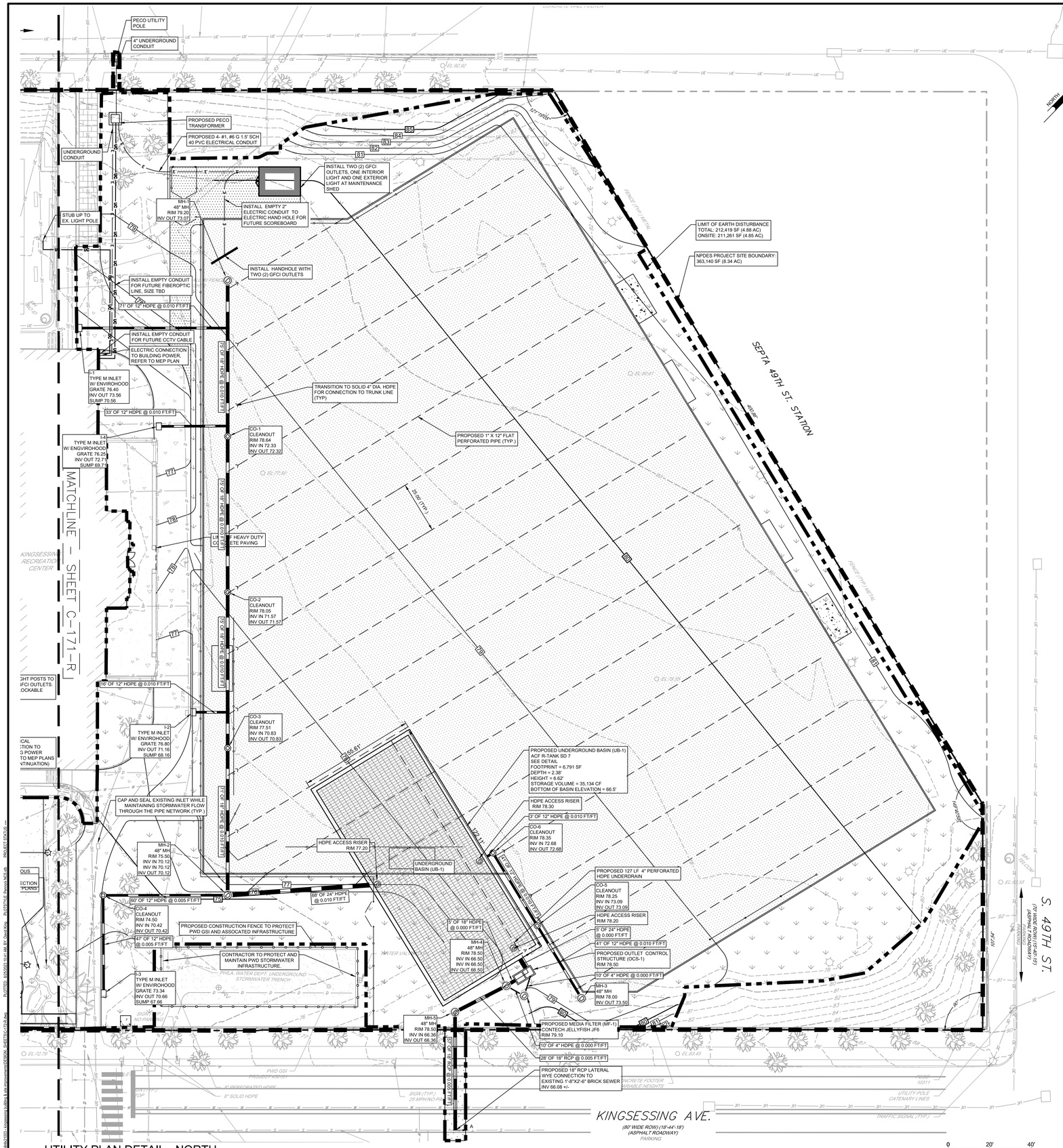
KEY PLAN



DRAWING TITLE
PCSM/UTILITY PLAN SOUTH

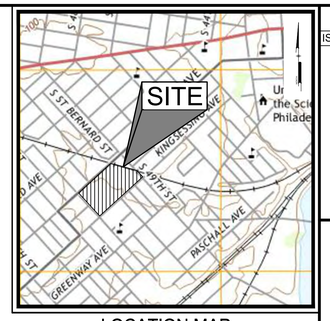
PROJECT NO. KLMLX21003	DRAWING NO. C-171-R.2
DATE 08/28/23	
SCALE 1" = 20'	
DRAWN BY: SDL	
CHECKED BY: MJM	

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



UTILITY PLAN DETAIL - NORTH

SCALE: 1"=20'-0"



LOCATION MAP

Scale: 1" = 1000'

WATERSHED: LOWER SCHUYLKILL RIVER
FLOOD MANAGEMENT DISTRICT: A
FEMA FLOODPLAIN: ZONE X

EXISTING LEGEND

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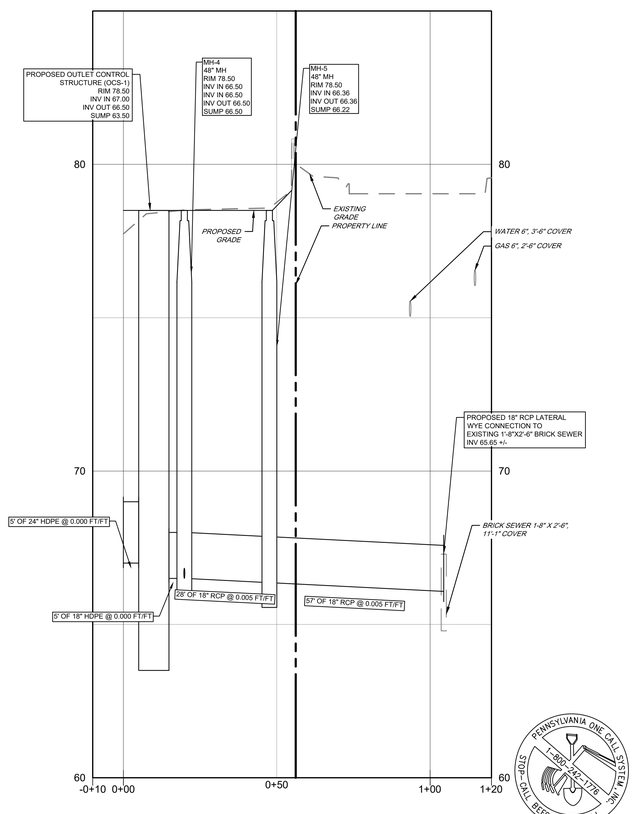

SECTION A-A: UB-1 TO KINGSESSING AVE.
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

CALL BEFORE YOU DIG
FOR THE LOCATION OF UNDERGROUND UTILITIES IN PENNSYLVANIA
CALL 1-800-242-1776
NOTICE TO CONTRACTOR: THIS PROJECT MUST BE CLEARED 10 WORKING DAYS AFTER YOU OPEN THE ONE-CALL SYSTEM. CALL 1-800-242-1776 TO OPEN YOUR ONE-CALL SYSTEM, INC. BLAST PENNSYLVANIA ONE-CALL SYSTEM, INC. SERIAL NUMBER(S): 20212583952

PACKAGE 1 EP
NOT FOR CONSTRUCTION
08/28/23

NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
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REVIEWED BY:

PROJECT COORDINATOR

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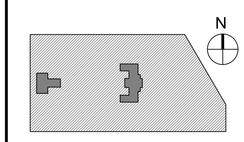
CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1515 ARCH STREET
11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
KINGSESSING RECREATION CENTER

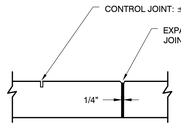
KEY PLAN



DRAWING TITLE
PCSM / UTILITY PLAN NORTH

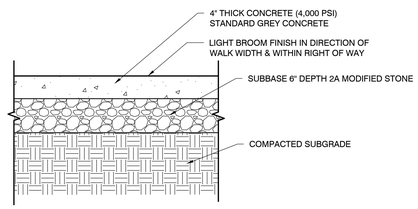
PROJECT NO: KLMLX21003	DRAWING NO: C-172-R.2
DATE: 08/28/23	
SCALE: 1" = 20'	
DRAWN BY: SDL	
CHECKED BY: MJM	

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



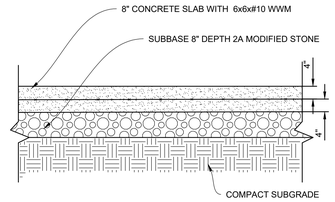
JOINTS

JOINTING NOTES:
1. 20' MAXIMUM SPACING BETWEEN EXPANSION JOINTS.
2. PLACE EXPANSION JOINTS AT LOCATIONS AS SHOWN ON PLAN AND WHERE SIDEWALK MEETS A CURB, RAMP, SOLID OBJECT OR STRUCTURE. CAULK ALL JOINTS.
3. PROVIDE ±1/8" TOOLED RADIUS ON ALL JOINTS.



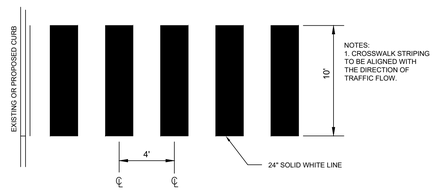
SIDEWALK NOTES:
1. ALL CONCRETE SHALL BE 4,000 PSI at 28 DAYS, AIR ENTRAINED, W/C RATIO 0.45, MAX. SLUMP 3".
2. COMPACTED SUBGRADE AS DIRECTED BY GEOTECHNICAL ENGINEER.

DETAIL- SIDEWALK AND JOINT
N.T.S.



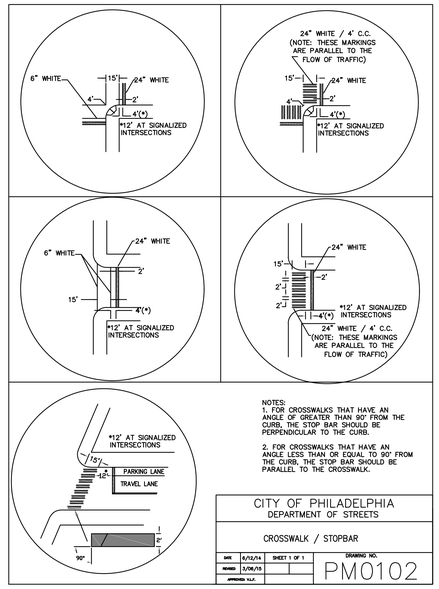
NOTE:
EXPANSION JOINTS SHALL BE PROVIDED AT EQUAL DISTANCES OF NOT MORE THAN 20' AND AT BUILDING WALL. JOINTS SHALL BE FILLED WITH PREFORMED EXPANSION JOINT FILLER, 1/2" THICK
CONFORMING TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS
FOR ROAD AND BRIDGE CONSTRUCTION. THE JOINT SHALL BE RECESSED 1/4" FROM THE TOP AND FRONT OF CONCRETE SLAB.
NOTE: CONCRETE SHALL BE 4,000 PSI AT 28 DAYS

DETAIL- HEAVY DUTY CONCRETE PAVING SECTION (VEHICLE RATED)
N.T.S.

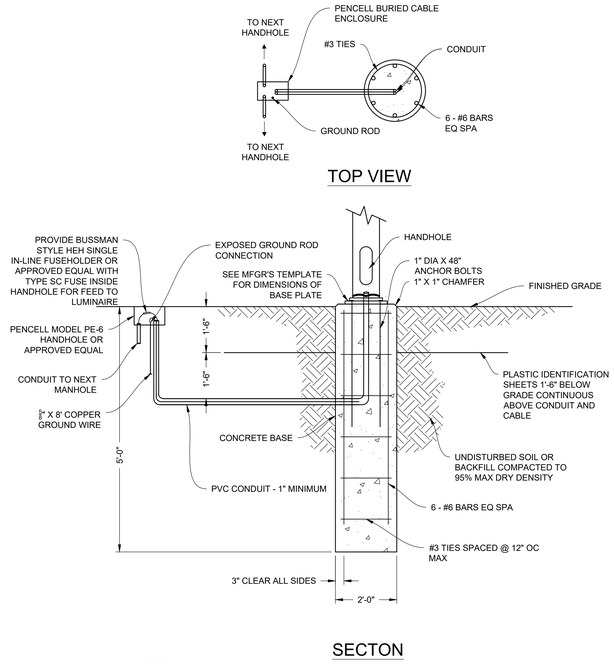


NOTES:
1. CROSSWALK STRIPING TO BE ALIGNED WITH THE DIRECTION OF TRAFFIC FLOW.

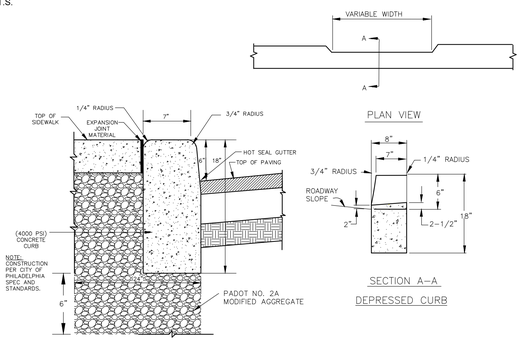
DETAIL- CROSSWALK STRIPING DETAIL
N.T.S.



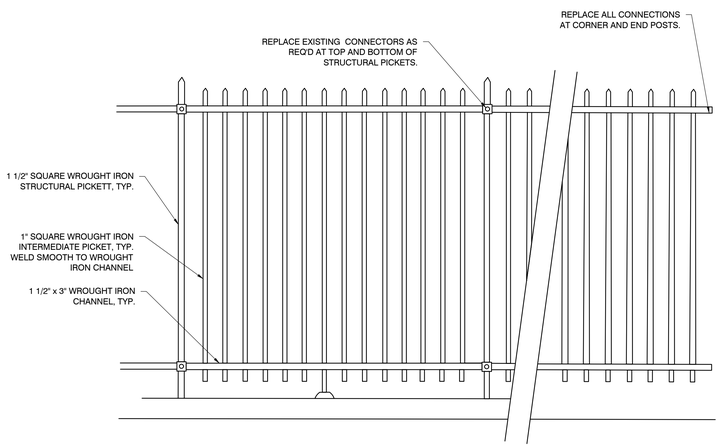
DETAIL- CITY OF PHILADELPHIA - CROSSWALK / STOPBAR (PM0102)
N.T.S.



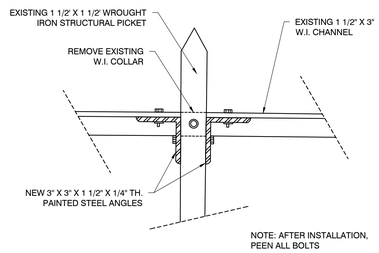
DETAIL- LIGHT POLE BASE DETAIL
N.T.S.



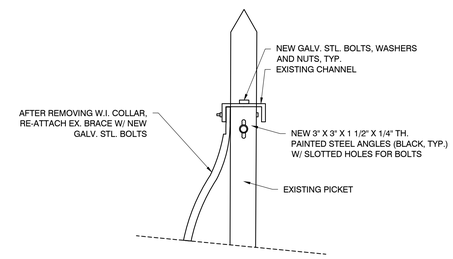
DETAIL- CONCRETE CURB
N.T.S.



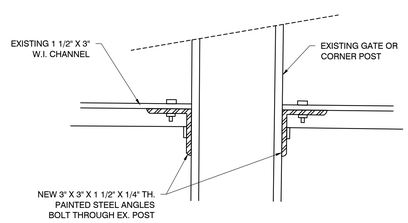
DETAIL- WROUGHT IRON FENCE
N.T.S.



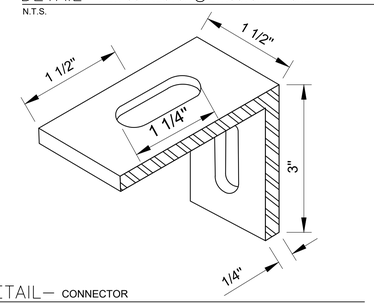
DETAIL— NEW CONNECTOR @ STRUCTURAL PICKET
N.T.S.



DETAIL— NEW CONNECTOR @ STRUCTURAL PICKET
N.T.S.



DETAIL— NEW CONNECTORS @ GATE OR CORNER POST
N.T.S.



DETAIL— CONNECTOR
N.T.S.

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23
NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
2	02/14/23	PWD PCSM RESUBMISSION
3	05/24/23	PWD PCSM RESUBMISSION

REVIEWED BY:

PROJECT COORDINATOR

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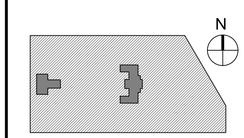
CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1515 ARCH STREET
11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
KINGSESSING RECREATION CENTER

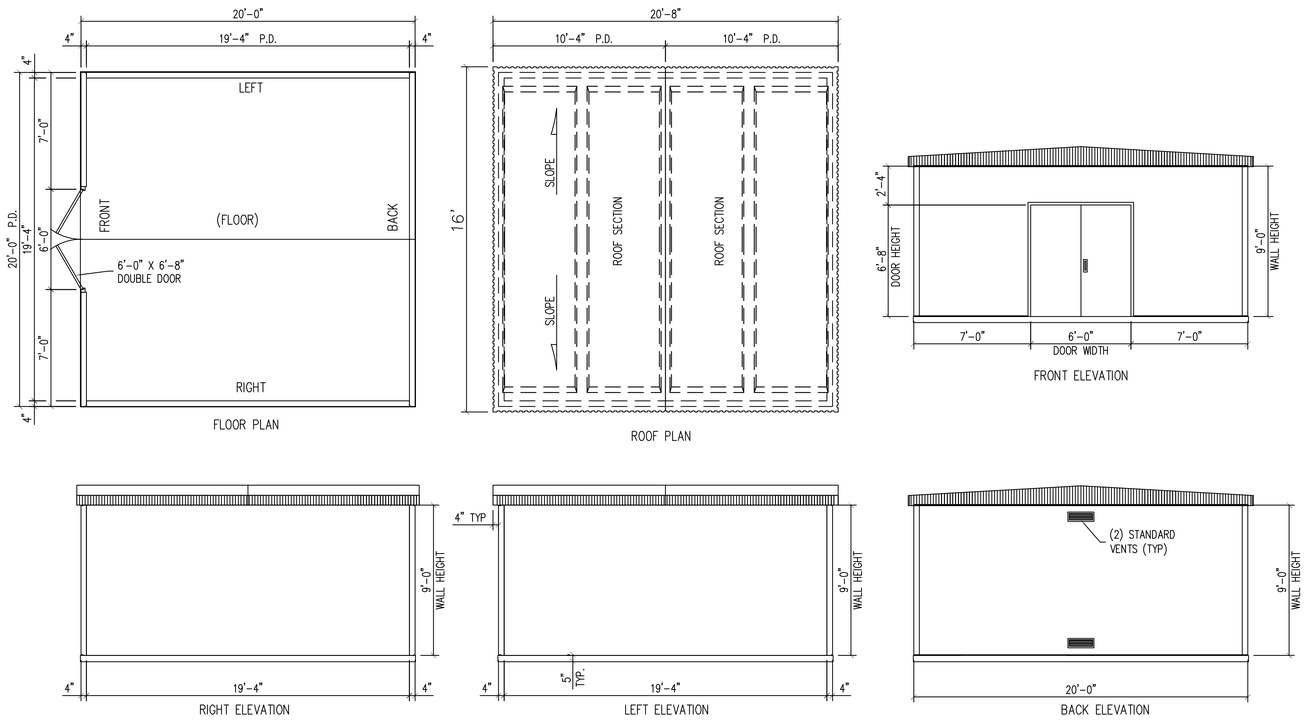
KEY PLAN



DRAWING TITLE
SITE DETAILS

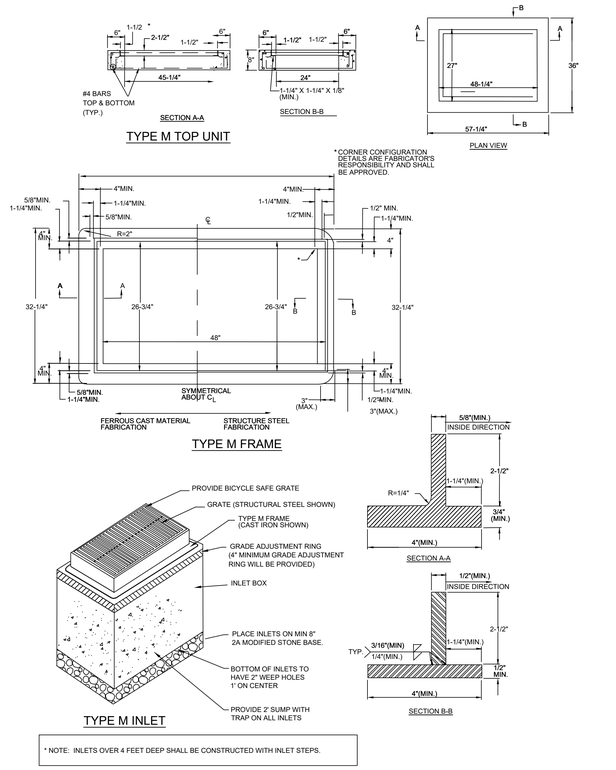
PROJECT NO.	KLMLX21003
DATE	08/28/23
SCALE	AS NOTED
DRAWN BY:	SDL
CHECKED BY:	MJM
DRAWING NO.	CS601-R.2

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



DETAIL- MAINTENANCE SHED

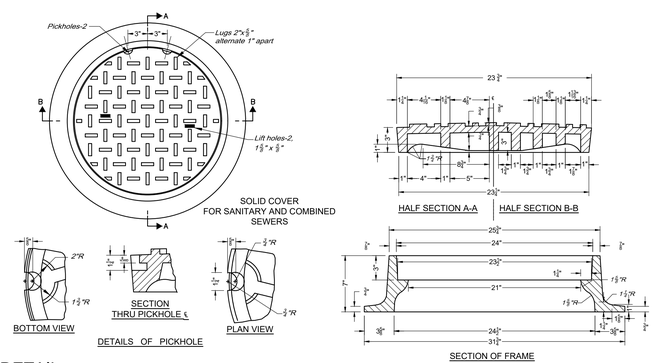
N.T.S.



* NOTE: INLETS OVER 4 FEET DEEP SHALL BE CONSTRUCTED WITH INLET STEPS.

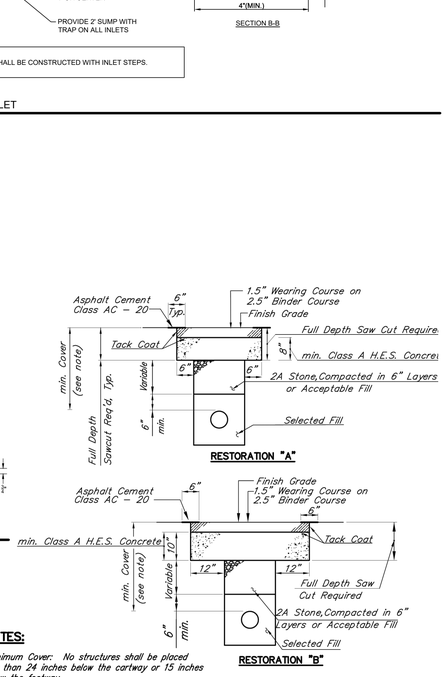
DETAIL- TYPE M INLET

N.T.S.



DETAIL- MANHOLE COVER

N.T.S.

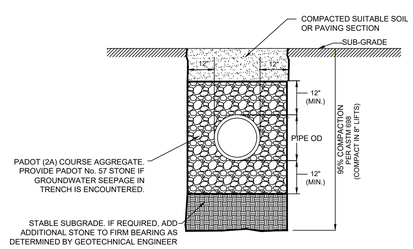


NOTES:

- *Minimum Cover: No structures shall be placed less than 24 inches below the cartway or 15 inches below the footway.*
- *Replace all disturbed pavement markings with thermoplastic tape.*
- *Pavement Markings must be restored within 7 days of trench restoration.*
- *All restoration by permittee to be in accordance with the latest Streets Department standards.*
- *Restoration "B" shall be used for all streets within Center City and all arterial streets outside Center City. Elsewhere, Restoration "A" shall be used. Historic Streets shall be restored in kind.*

DETAIL- TRENCH RESTORATION WITHIN RIGHT-OF-WAY

N.T.S.

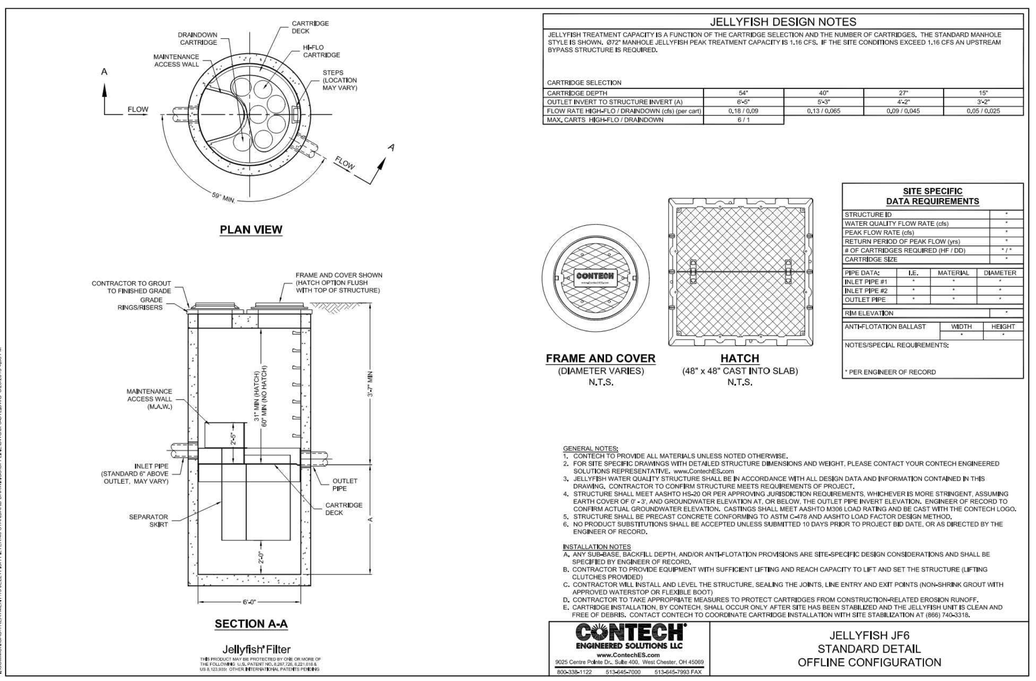


NOTES: 1. REUSE OF EXCESS TRENCH MATERIALS FOR BACKFILLING SHALL BE APPROVED BY THE GEO-TECHNICAL ENGINEER AND THE ON-SITE ENVIRONMENTAL REPRESENTATIVE.

2. RECYCLED CONCRETE, IF PROPOSED FOR BACKFILL, MUST BE APPROVED BY THE GEO-TECHNICAL ENGINEER.

DETAIL- TRENCH RESTORATION (ON SITE)

N.T.S.



JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN. 96" MANHOLE.JELLYFISH PEAK TREATMENT CAPACITY IS 1.16 CFS. IF THE SITE CONDITIONS EXCEED 1.16 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE DEPTH	54"	40"	27"	15"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-5"	5'-3"	4'-2"	3'-2"
FLOW RATE HIGH-FLO / DRAINDOWN (cfs) (per cart)	0.18 / 0.09	0.13 / 0.065	0.09 / 0.045	0.05 / 0.025
MAX. CARTS HIGH-FLO / DRAINDOWN	6 / 1			

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			*
WATER QUALITY FLOW RATE (cfs)			*
PEAK FLOW RATE (cfs)			*
RETURN PERIOD OF PEAK FLOW (yrs)			*
# OF CARTRIDGES REQUIRED (HF / DD)			* / *
CARTRIDGE SIZE			*
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	*	*	*
INLET PIPE #2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION			*
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
		*	*
NOTES/SPECIAL REQUIREMENTS:			

* PER ENGINEER OF RECORD

GENERAL NOTES:
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.ContechES.com
3. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET AASHTO HS-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED)
C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT)
D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
E. CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (866) 740-3318.

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

JELLYFISH JF6
STANDARD DETAIL
OFFLINE CONFIGURATION

DETAIL- CONTECH JELLYFISH FILTER

N.T.S.

PACKAGE 2 - IFB
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08/28/23
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PROJECT TITLE
KINGSESSING RECREATION CENTER

KEY PLAN

DRAWING TITLE
SITE DETAILS

PROJECT NO. KLMLX21003	DRAWING NO. CS602-R.2
DATE 08/28/23	
SCALE AS NOTED	
DRAWN BY: SDL	
CHECKED BY: MJM	

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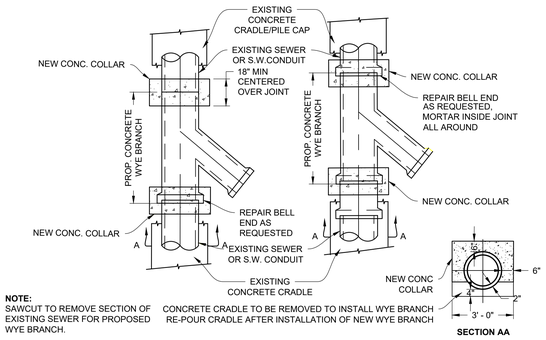
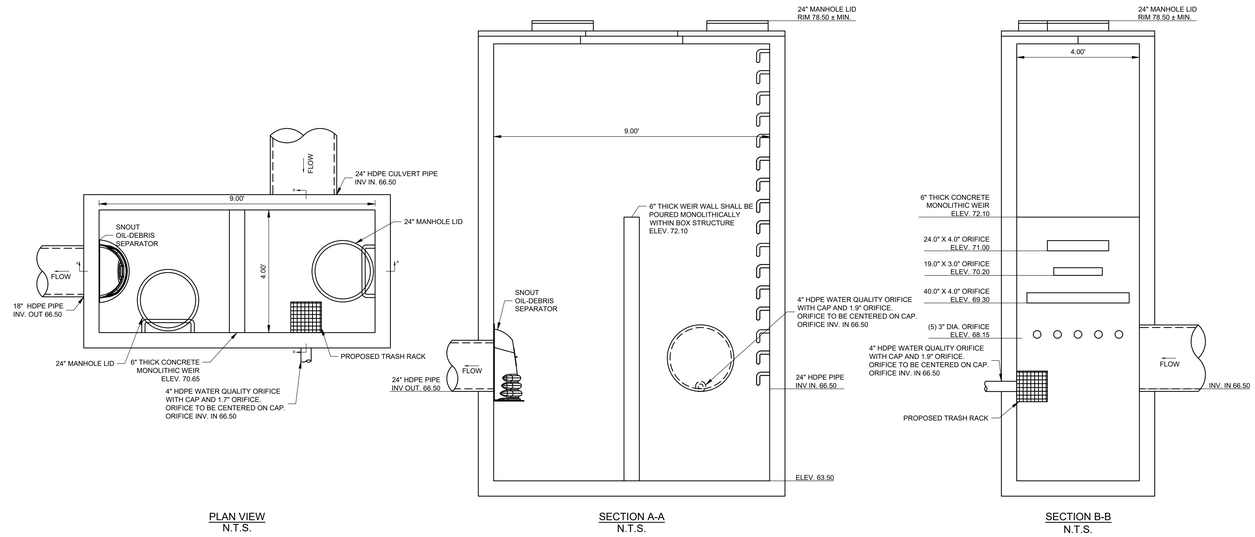


NOTE:
SAWCUT TO REMOVE SECTION OF EXISTING SEWER FOR PROPOSED WYE BRANCH.
CONCRETE CRADLE TO BE REMOVED TO INSTALL WYE BRANCH RE-POUR CRADLE AFTER INSTALLATION OF NEW WYE BRANCH

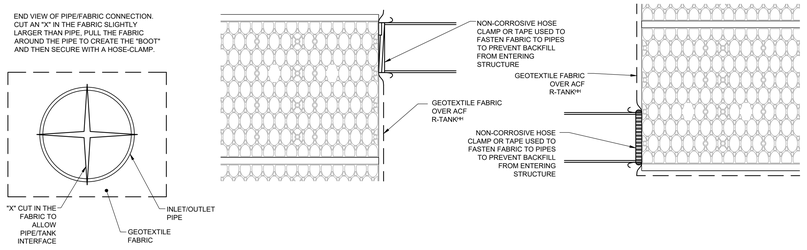
WYE BRANCH INSTALLATION PROCEDURE:

1. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING THE FLOW DURING THE CONNECTION.
2. THE CONTRACTOR IS TO OBTAIN INFORMATION ABOUT THE FLOW RATE PRIOR TO COMMENCING THE CONNECTION. THIS MAY BE OBTAINED BY OPENING A MANHOLE AND MEASURING THE FLOW (FLOW CAN VARY).
3. FOR HIGH FLOW RATE THE CONTRACTOR SHALL SUBMIT A BY-PASS METHOD FOR APPROVAL.
4. FOR LOW FLOW RATE THE CONTRACTOR MAY BE ABLE TO DIRECT THE FLOW THROUGH THE OPENED SECTION.
5. THE CONTRACTOR MUST SELECT THE PROPER SIZE WYE AND ALIGN THE INVERTS.
6. EXCAVATE SAFELY TO EXPOSE THE EXISTING SEWER PIPE WITHOUT DAMAGING IT.
7. EXCAVATE A DITCH WIDE ENOUGH TO ACCOMMODATE THE WYE AND THE CUT-OFF WALLS.
8. CONTRACTORS SHOULD PERFORM THE CONNECTION IN A SAFE MANNER AND PER OSHA REGULATIONS.
9. SHORING SHALL BE INSTALLED IN DITCHES AND TRENCHES AS PER OSHA REGULATIONS OR AS REGULATED BY PWD. VIOLATION OF THIS PROVISION WILL RESULT IN A STOP WORK ORDER AND/OR PENALTIES PRESCRIBED BY LAW. (REFER TO PHILADELPHIA PLUMBING CODE 2004 SECTION P- 1503.2 SHORING).
10. FOR CONNECTIONS TO BRICK SEWER, CONSTRUCT A 2-FOOT WIDE BY 8-INCH HIGH, CONCRETE CUTOFF WALL TO THE SPRING LINE, ON BOTH SIDES OF THE WYE. 12-INCH FROM THE LOCATION TO CUT THE SEWER PIPE.
11. USE A MINIMUM OF 3,500 PSI CONCRETE FOR THE CONCRETE CUT-OFF WALL.
12. ALLOW AT LEAST 24 HOURS FOR THE CONCRETE TO CURE BEFORE CUTTING THE SEWER PIPE.
13. CUT THE SEWER PIPE SO THAT THE WYE SECTION WILL FIT IN TIGHTLY.
14. PREVENT ANY DEBRIS FROM FLOWING INTO THE SEWER.
15. CLEAN THE BOTTOM OF THE OPENED AREA FROM LOOSE AND SOFT SOIL IF NO CRADLE, AND PLACE STONE IN THE MIDDLE LEAVING 12 INCH BELOW THE JOINTS FOR CONCRETE COLLAR.
16. INSERT THE WYE SECTION IN PLACE IMMEDIATELY, SEAL THE JOINTS AND CONSTRUCT A 24-INCH CONCRETE COLLAR AROUND BOTH JOINTS.
17. USE A MINIMUM OF 3,500 PSI CONCRETE COLLAR, 12 INCH DEEP AND EXTENDING 24 INCH WIDE AROUND THE JOINT.
18. ALLOW AT LEAST 24 HOURS FOR THE CONCRETE TO CURE BEFORE BACKFILLING.
19. ANY OTHER PIPELINE EXPOSED AND UNDERMINED DURING THIS OPERATION MUST BE SUPPORTED IMMEDIATELY AND BACKFILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM) AFTER THE COMPLETION OF THE CONNECTION.

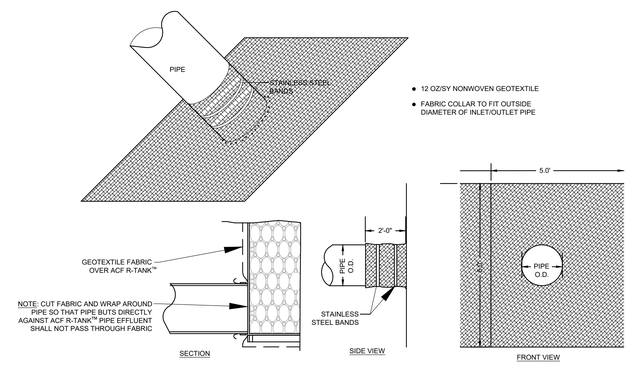
DETAIL- WYE CONNECTION
N.T.S.



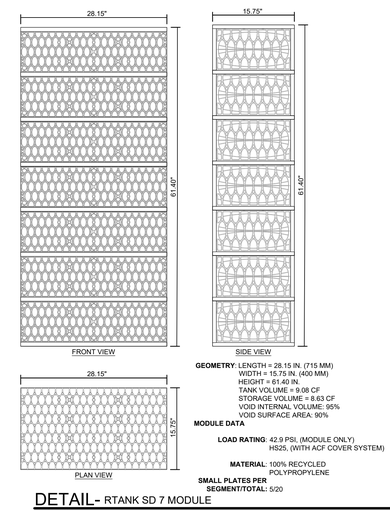
DETAIL- UNDERGROUND BASIN - OUTLET CONTROL STRUCTURE
1" = 2'



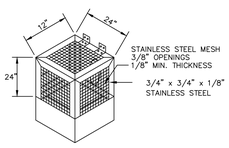
DETAIL- R-TANK INLET/OUTLET
N.T.S.



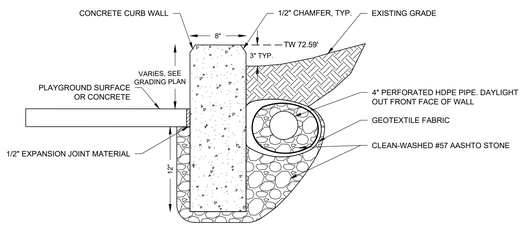
DETAIL- R-TANK PIPE BOOT
N.T.S.



DETAIL- RTANK SD 7 MODULE
N.T.S.



DETAIL- ORIFICE PROTECTION
N.T.S.



DETAIL- CONCRETE CURB WALL AT PLAYGROUND
N.T.S.

PACKAGE 2 - IFB
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08/28/23
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PWD TRACKING #FY22-KING-6800-01

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PROJECT COORDINATOR

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PROJECT TITLE
KINGSESSING RECREATION CENTER

KEY PLAN
N

DRAWING TITLE
SITE DETAILS

PROJECT NO. KLMLX21003	DRAWING NO. CS603-R.2
DATE 08/28/23	
SCALE AS NOTED	
DRAWN BY: SDL	
CHECKED BY: MJM	

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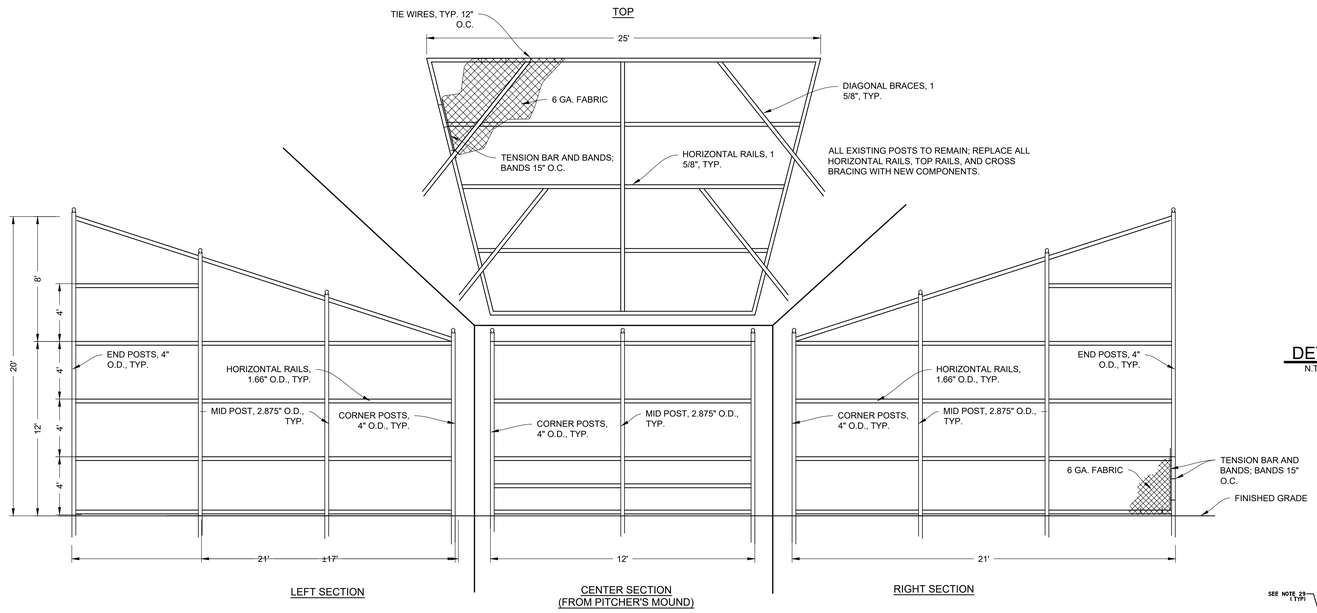
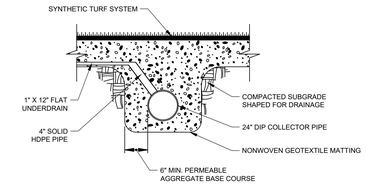
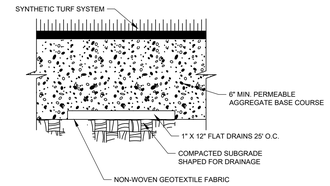


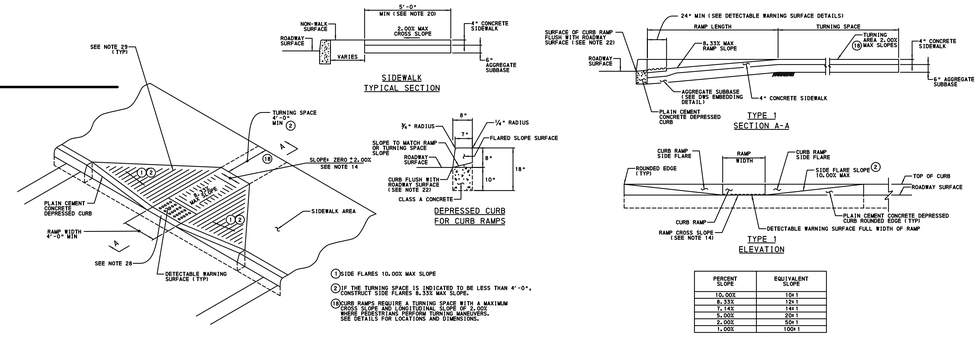
DETAIL- CHAIN LINK BACKSTOP FENCE
N.T.S.



DETAIL- SYNTHETIC TURF FIELD COLLECTOR DRAIN
N.T.S.



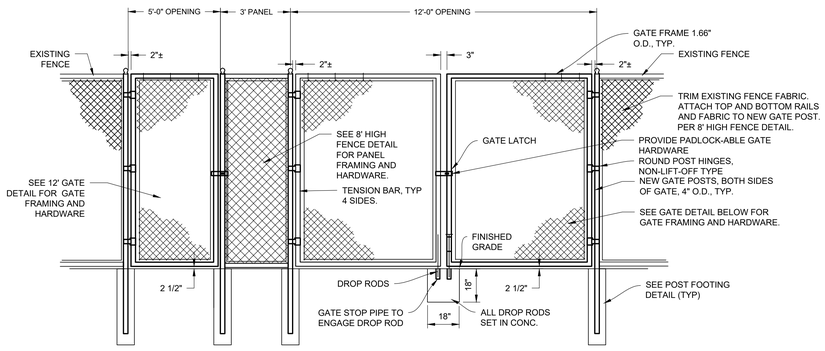
DETAIL- SYNTHETIC TURF FIELD FLAT UNDER DRAIN
N.T.S.



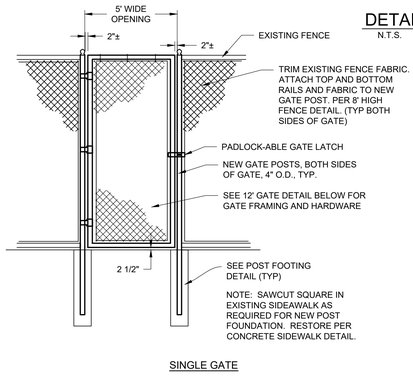
PERCENT SLOPE	EQUIVALENT SLOPE
10.00%	10:1
8.33%	12:1
7.14%	14:1
5.00%	20:1
3.00%	33:1
2.00%	50:1
1.00%	100:1

EQUIVALENT SLOPES

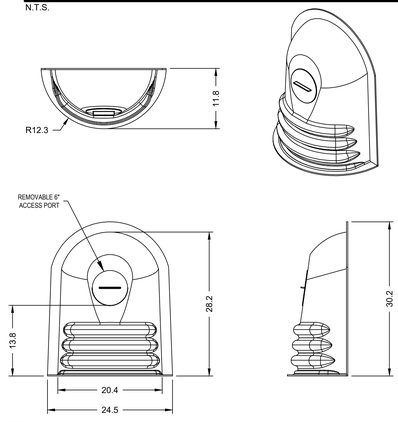
DETAIL- TYPE 1 CURB RAMP
N.T.S.



DETAIL- 12' WIDE VEHICLE GATE & 5' WIDE PEDESTRIAN GATE
N.T.S.



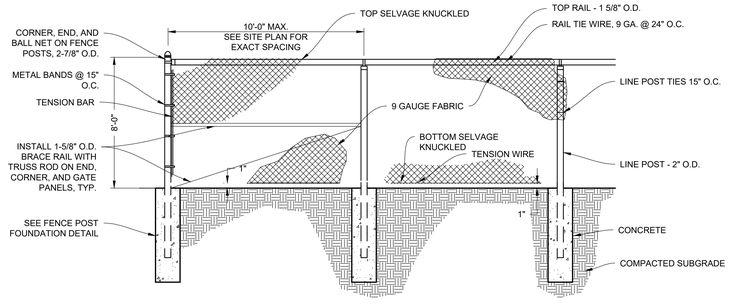
DETAIL- 5' WIDE PEDESTRIAN GATE
N.T.S.



DETAIL- 18F ENVIROHOOD FOR FLAT CONCRETE
N.T.S.

FENCING NOTES:

1. FENCE FABRIC TO BE CLASS 2B VINYL COATED, 2" DIAMOND MESH:
   - BACKSTOP FENCE: 6 GAUGE
   - 8' HIGH FENCE AND GATES: 9 GAUGE
2. ALL NEW FRAMING MEMBERS (INCLUDING POSTS) AND HARDWARE TO BE POWDER COATED (BLACK) PER SPECIFICATIONS.
3. GATE FRAME JOINTS TO BE WELDED TO MAKE A RIGID FRAME.
4. GATE DROP RODS TO BE SET IN CONCRETE.
4. FASTEN FENCE FABRIC TO PLAYING FIELD SIDE OF POSTS.
5. TOP AND BOTTOM SELVAGE TO BE KNUCKLED.
6. PROVIDE COMPLETE SHOP DRAWINGS FOR FENCES, GATES, AND BACKSTOP.



DETAIL- CHAIN LINK FENCE
N.T.S.

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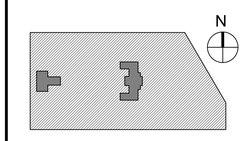

DRAWING TITLE
SITE DETAILS

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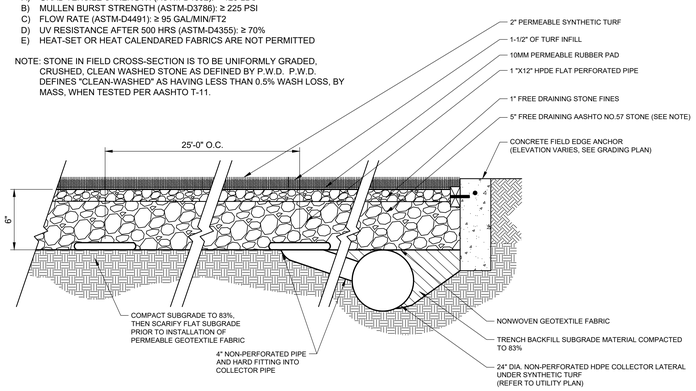
DATE	08/28/23
SCALE	AS NOTED
DRAWN BY	SDL
CHECKED BY	MJM
DRAWING NO.	CS604-R.2

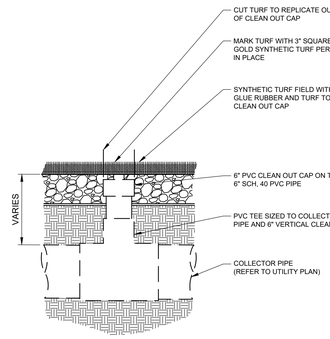
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

NOTE: GEOTEXTILE IS TO CONSIST OF POLYPROPYLENE FIBERS AND TO MEET THE FOLLOWING SPECIFICATIONS:
- A) GRAB TENSILE STRENGTH (ASTM-D4632): ≥ 120 LBS
- B) MULLEN BURST STRENGTH (ASTM-D3786): ≥ 225 PSI
- C) FLOW RATE (ASTM-D4491): ≥ 95 GAL/MIN/FT2
- D) UV RESISTANCE AFTER 500 HRS (ASTM-D4355): ≥ 70%
- E) HEAT-SET OR HEAT CALENDARED FABRICS ARE NOT PERMITTED

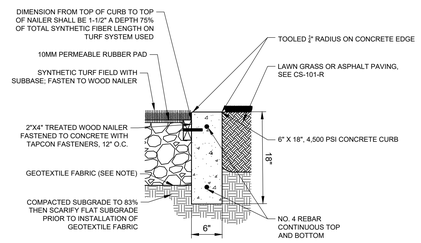
NOTE: STONE IN FIELD CROSS-SECTION IS TO BE UNIFORMLY GRADED, CRUSHED, CLEAN WASHED STONE AS DEFINED BY P.W.D. P.W.D. DEFINES "CLEAN-WASHED" AS HAVING LESS THAN 0.5% WASH LOSS, BY MASS, WHEN TESTED PER AASHTO T-11.



DETAIL- SYNTHETIC FIELD UNDERDRAINAGE
N.T.S.



DETAIL- CLEANOUT PORTAL IN SYNTHETIC TURF
N.T.S.

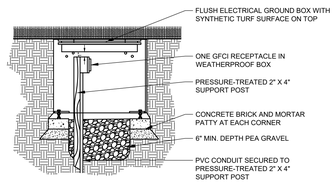


DETAIL- CONCRETE FIELD EDGE ANCHOR
N.T.S.

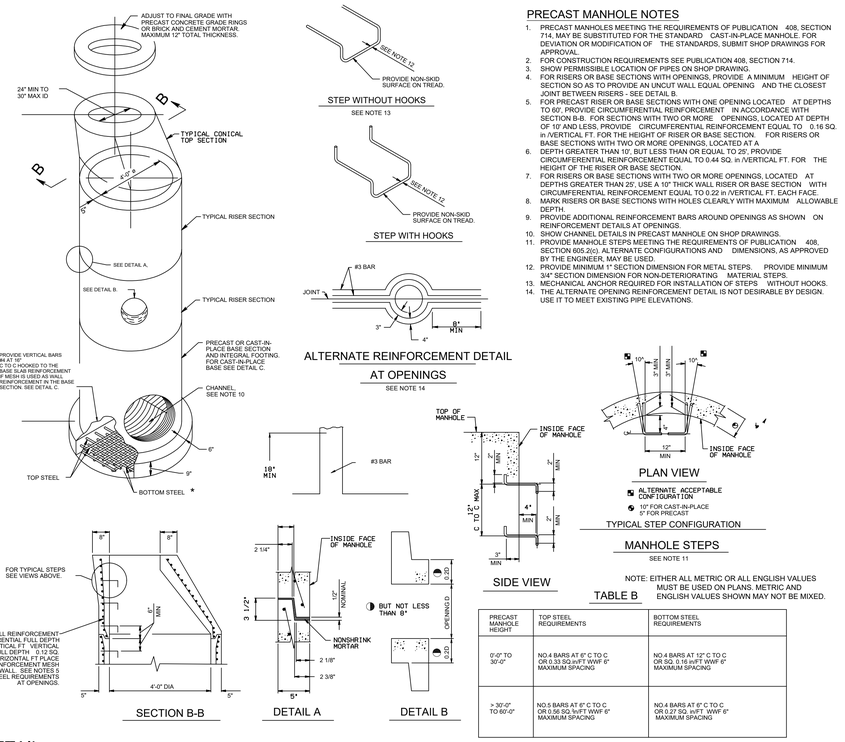
NOTE: ALL TREATED WOOD TO BE NON-CCA. TOP OF TURF INFILL TO BE FLUSH WITH TOP OF CONCRETE CURB.
EXPANSION JOINTS TO BE INSTALLED AT INTERVALS NOT TO EXCEED 160' - SAWCUT CONTROL JOINTS SHALL OCCUR EVERY 20'.

NOTE: NON-WOVEN GEOTEXTILE IS TO CONSIST OF POLYPROPYLENE FIBERS AND TO MEET THE FOLLOWING SPECIFICATIONS:
- A) GRAB TENSILE STRENGTH (ASTM-D4632): ≥ 120 LBS
- B) MULLEN BURST STRENGTH (ASTM-D3786): ≥ 225 PSI
- C) FLOW RATE (ASTM-D4491): ≥ 95 GAL/MIN/FT2
- D) UV RESISTANCE AFTER 500 HRS (ASTM-D4355): ≥ 70%
- E) HEAT-SET OR HEAT CALENDARED FABRICS ARE NOT PERMITTED

NOTE: STONE IN FIELD CROSS-SECTION IS TO BE UNIFORMLY GRADED, CRUSHED, CLEAN WASHED STONE AS DEFINED BY P.W.D. P.W.D. DEFINES "CLEAN-WASHED" AS HAVING LESS THAN 0.5% WASH LOSS, BY MASS, WHEN TESTED PER AASHTO T-11.



DETAIL- OUTDOOR GROUND BOX RECEPTACLE
N.T.S.



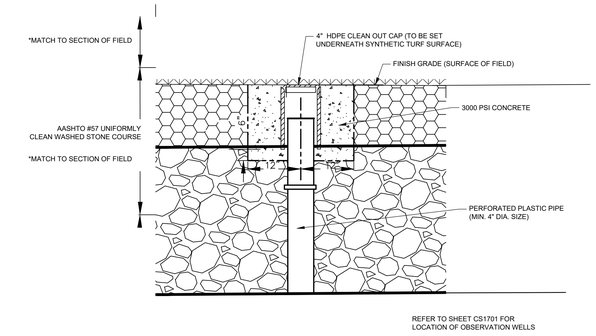
NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.

TABLE B

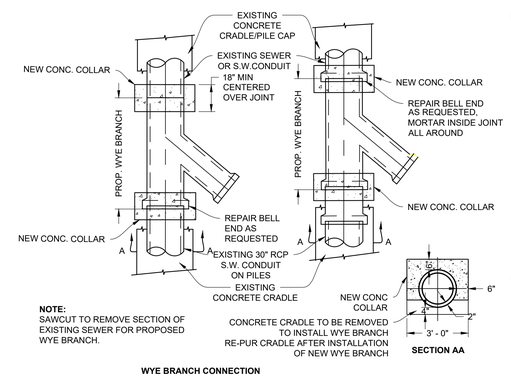
PRECAST MANHOLE HEIGHT	TOP STEEL REQUIREMENTS	BOTTOM STEEL REQUIREMENTS
0'-0" TO 30'-0"	NO.4 BARS AT 6" C TO C OR 0.33 SQ.in/FT WWF 6" MAXIMUM SPACING	NO.4 BARS AT 12" C TO C OR SQ. 0.16 in/FT WWF 6" MAXIMUM SPACING
> 30'-0" TO 60'-0"	NO.5 BARS AT 6" C TO C OR 0.56 SQ. in/FT WWF 6" MAXIMUM SPACING	NO.4 BARS AT 6" C TO C OR 0.27 SQ. in/FT. WWF 6" MAXIMUM SPACING

PRECAST MANHOLE NOTES
1. PRECAST MANHOLES MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 714, MAY BE SUBSTITUTED FOR THE STANDARD CAST-IN-PLACE MANHOLE. FOR DEVIATION OR MODIFICATION OF THE STANDARDS, SUBMIT SHOP DRAWINGS FOR APPROVAL.
2. FOR CONSTRUCTION REQUIREMENTS SEE PUBLICATION 408, SECTION 714.
3. SHOW PERMISSIBLE LOCATION OF PIPES ON SHOP DRAWING.
4. FOR RISERS OR BASE SECTIONS WITH OPENINGS, PROVIDE A MINIMUM HEIGHT OF SECTION SO AS TO PROVIDE AN UNCUT WALL EQUAL OPENING AND THE CLOSEST JOINT BETWEEN RISERS - SEE DETAIL B.
5. FOR PRECAST RISER OR BASE SECTIONS WITH ONE OPENING LOCATED AT DEPTHS TO 60', PROVIDE CIRCUMFERENTIAL REINFORCEMENT IN ACCORDANCE WITH SECTION B-B. FOR SECTIONS WITH TWO OR MORE OPENINGS, LOCATED AT DEPTH OF 10' AND LESS, PROVIDE CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.16 SQ. in /VERTICAL FT. FOR THE HEIGHT OF RISER OR BASE SECTION. FOR RISERS OR BASE SECTIONS WITH TWO OR MORE OPENINGS, LOCATED AT A
6. DEPTH GREATER THAN 10', BUT LESS THAN OR EQUAL TO 25', PROVIDE CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.44 SQ. in /VERTICAL FT. FOR THE HEIGHT OF THE RISER OR BASE SECTION.
7. FOR RISERS OR BASE SECTIONS WITH TWO OR MORE OPENINGS, LOCATED AT DEPTHS GREATER THAN 25', USE A 10" THICK WALL RISER OR BASE SECTION WITH CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.22 in /VERTICAL FT. EACH FACE.
8. MARK RISERS OR BASE SECTIONS WITH HOLES CLEARLY WITH MAXIMUM ALLOWABLE DEPTH.
9. PROVIDE ADDITIONAL REINFORCEMENT BARS AROUND OPENINGS AS SHOWN ON REINFORCEMENT DETAILS AT OPENINGS.
10. SHOW CHANNEL DETAILS IN PRECAST MANHOLE ON SHOP DRAWINGS.
11. PROVIDE MANHOLE STEPS MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 605.2(c). ALTERNATE CONFIGURATIONS AND DIMENSIONS, AS APPROVED BY THE ENGINEER, MAY BE USED.
12. PROVIDE MINIMUM 1" SECTION DIMENSION FOR METAL STEPS. PROVIDE MINIMUM 3/4" SECTION DIMENSION FOR NON-DETERIORATING MATERIAL STEPS.
13. MECHANICAL ANCHOR REQUIRED FOR INSTALLATION OF STEPS WITHOUT HOOKS.
14. THE ALTERNATE OPENING REINFORCEMENT DETAIL IS NOT DESIRABLE BY DESIGN. USE IT TO MEET EXISTING PIPE ELEVATIONS.

DETAIL- PRECAST STORM MANHOLE
N.T.S.



DETAIL- OBSERVATION WELL IN SYNTHETIC TURF
N.T.S.



NOTE:
SAWCUT TO REMOVE SECTION OF EXISTING SEWER FOR PROPOSED WYE BRANCH.

WYE BRANCH CONNECTION

DIVERSION OF FLOWS
- A. THE WATER DEPARTMENT DOES NOT GUARANTEE THE ABILITY TO DAM OR DIVERT FLOWS. THE WATER DEPARTMENT SHALL APPROVE ALL DAMMING AND DIVERTING OF FLOWS PRIOR TO INSTALLATION.
- B. ONE WEEK PRIOR TO DAMMING AND DIVERTING OF ANY FLOW THE CONTRACTOR SHALL NOTIFY BOTH OF THE FOLLOWING:
  - SEWER MAINTENANCE SUPERINTENDENT AT 215-685-2034.
  - FLOW CONTROL SUPERINTENDENT AT 215-685-2004.
- C. IN ADDITION, BOTH SEWER MAINTENANCE AND INTERCEPTOR SERVICES SHALL BE NOTIFIED ONE WEEK PRIOR TO REMOVAL OF ANY DAM AND THE RESUMPTION OF FLOW. UPON COMPLETION OF THE REMOVAL OF THE DAM, THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE SEWER AT THE LOCATION OF THE DAM. ANY DAMAGE FOUND DURING THIS INSPECTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
- D. IF FOR ANY REASON IT BECOMES NECESSARY TO REMOVE THE DAM PRIOR TO COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE THE DAM, RESTORE FLOW, AND UTILIZE AN ALTERNATE MEANS OF FLOW CONTROL TO COMPLETE THE PROJECT, AT NO ADDITIONAL COST TO THE CITY.

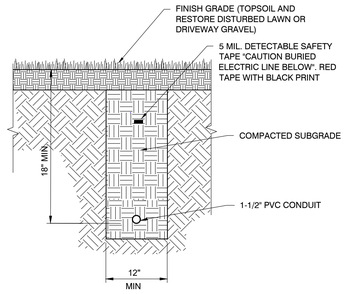
CONCRETE CUT-OFF WALLS
- A. BEFORE REMOVING EARTH FILL OVER ARCH OF THE EXISTING SEWER, CONSTRUCT A CONCRETE CUT-OFF WALL WHERE CALLED FOR ON THE CONTRACT DRAWINGS.
- B. THE CUT-OFF WALL SHALL BE CONSTRUCTED ACROSS THE ENTIRE WIDTH OF TRENCH DOWN TO THE SPRING LINE OF THE SEWER. AFTER THE CUT-OFF WALL HAS BEEN CONSTRUCTED AND SET, THE REMAINING PORTION OF EARTH OVER THE SEWER SHALL BE REMOVED DOWN THE SPRING LINE.

FLUMING
- A. FLUME THE EXISTING SEWER FLOW DURING CONSTRUCTION. USE ONLY SUCH DAMS AS WILL NOT RESTRICT FULL FLOW DURING STORMS. REPAIR ALL DAMAGE DUE TO RESTRICTION OF FLOW.

WYE BRANCH INSTALLATION PROCEDURE:

1. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING THE FLOW DURING THE CONNECTION.
2. THE CONTRACTOR IS TO OBTAIN INFORMATION ABOUT THE FLOW RATE PRIOR TO COMMENCING THE CONNECTION. THIS MAY BE OBTAINED BY OPENING A MANHOLE AND MEASURING THE FLOW (FLOW CAN VARY).
3. FOR HIGH FLOW RATE THE CONTRACTOR SHALL SUBMIT A BY-PASS METHOD FOR APPROVAL.
4. FOR LOW FLOW RATE THE CONTRACTOR MAY BE ABLE TO DIRECT THE FLOW THROUGH THE OPENED SECTION.
5. THE CONTRACTOR MUST SELECT THE PROPER SIZE WYE AND ALIGN THE INVERTS.
6. EXCAVATE SAFELY TO EXPOSE THE EXISTING SEWER PIPE WITHOUT DAMAGING IT.
7. EXCAVATE A DITCH WIDE ENOUGH TO ACCOMMODATE THE WYE AND THE CUT-OFF WALLS.
8. CONTRACTORS SHOULD PERFORM THE CONNECTION IN A SAFE MANNER AND PER OSHA REGULATIONS.
9. SHORING SHALL BE INSTALLED IN DITCHES AND TRENCHES AS PER OSHA REGULATIONS OR AS REGULATED BY PWD. VIOLATION OF THIS PROVISION WILL RESULT IN A STOP WORK ORDER AND/OR PENALTIES PRESCRIBED BY LAW. (REFER TO PHILADELPHIA PLUMBING CODE 2004 SECTION P- 1503.2 SHORING).
10. FOR CONNECTIONS TO BRICK SEWER, CONSTRUCT A 2-FOOT WIDE BY 8-INCH HIGH, CONCRETE CUTOFF WALL TO THE SPRING LINE, ON BOTH SIDES OF THE WYE, 12-INCH FROM THE LOCATION TO CUT THE SEWER PIPE.
11. USE A MINIMUM OF 3000 PSI CONCRETE FOR THE CONCRETE CUT-OFF WALL.
12. ALLOW AT LEAST 24 HOURS FOR THE CONCRETE TO HARDEN BEFORE CUTTING THE SEWER PIPE.
13. CUT THE SEWER PIPE SO THAT THE WYE SECTION WILL FIT IN TIGHTLY.
14. PREVENT ANY DEBRIS FROM FLOWING INTO THE SEWER.
15. CLEAN THE BOTTOM OF THE OPENED AREA FROM LOOSE AND SOFT SOIL IF NO CRADLE, AND PLACE STONE IN THE MIDDLE LEAVING 12 INCH BELOW THE JOINTS FOR CONCRETE COLLAR.
16. INSERT THE WYE SECTION IN PLACE IMMEDIATELY, SEAL THE JOINTS AND CONSTRUCT A 24-INCH CONCRETE COLLAR AROUND BOTH JOINTS.
17. USE A MINIMUM OF 3000 PSI CONCRETE COLLAR, 12 INCH DEEP AND EXTENDING 24 INCH WIDE AROUND THE JOINT.
18. ALLOW AT LEAST 24 HOURS FOR THE CONCRETE TO HARDEN BEFORE BACKFILLING.
19. ANY OTHER PIPELINE EXPOSED AND UNDERMINED DURING THIS OPERATION MUST BE SUPPORTED IMMEDIATELY AND BACKFILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM) AFTER THE COMPLETION OF THE CONNECTION.

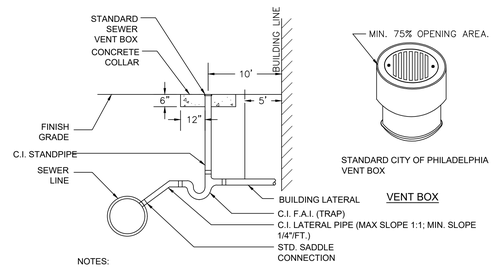
DETAIL- WYE CONNECTION
N.T.S.



ELECTRICAL CONDUIT NOTES:

1. PROVIDE 1-1/2" PVC CONDUIT, MINIMUM 18" BELOW GRADE.
2. REFER TO MEP PLANS FOR ELECTRICAL CONNECTION AT EXISTING AND RELOCATED BUILDINGS.
3. PROVIDE APPROPRIATE UNDERGROUND WARNING TAPE.
4. AFTER INSTALLATION, PROVIDE ENGINEER AND CITY AS-BUILT DRAWINGS INDICATING EXACT LOCATION, VERTICAL AND HORIZONTAL, OF CONDUIT.

DETAIL- ELECTRICAL CONDUIT
N.T.S.



NOTES:
1. TRAP, STANDPIPE & VENT BOX TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHILADELPHIA PLUMBING CODE - CONNECTION SHALL BE IN ACCORDANCE WITH CITY OF PHILADELPHIA SPECIFICATIONS.
2. LATERAL TRAP AND F.A.I. & C.O. SHALL BE PLACED ON ALL ROOF DRAIN LATERALS, STORM PIPES AND SANITARY SEWER LATERALS.

DETAIL- LATERAL TRAP, FAI, AND CLEANOUT
N.T.S.

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23
NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
2	02/14/23	PWD PCSM RESUBMISSION
3	05/24/23	PWD PCSM RESUBMISSION

REVIEWED BY:

PROJECT COORDINATOR

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M.E.P./F.P./SITE CIVIL ENGINEERS:
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1900 Market Street Suite 300
Philadelphia PA 19103
www.pennoni.com

LEED CONSULTANT:
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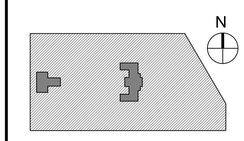
1635 Market Street Suite 1600
Philadelphia PA 19103

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

PROJECT TITLE
KINGSESSING RECREATION CENTER

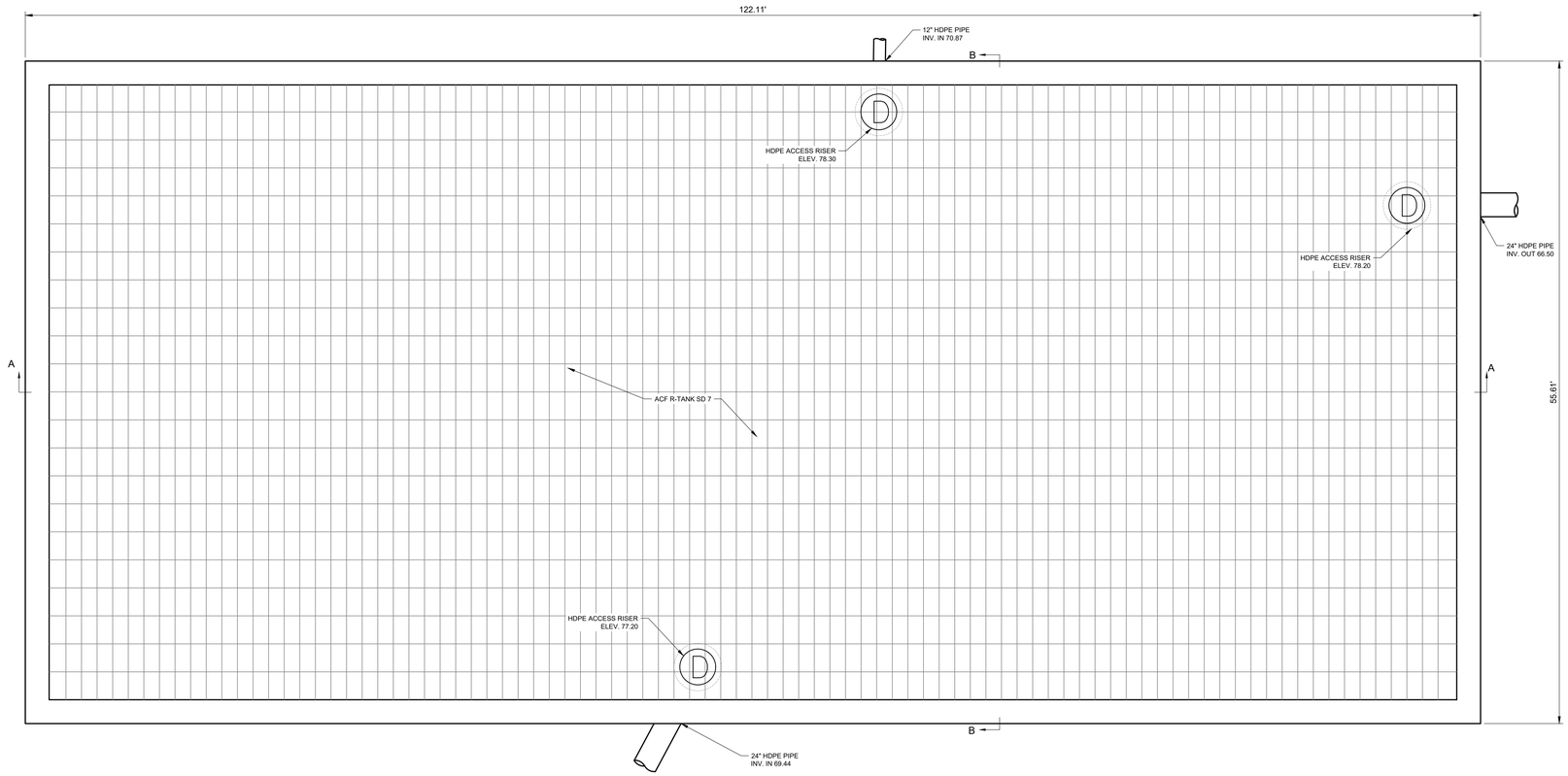
KEY PLAN



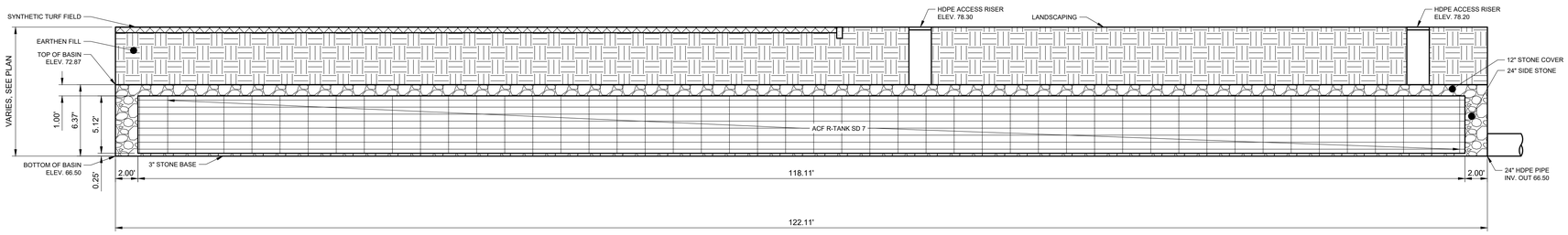
DRAWING TITLE
SITE DETAILS

PROJECT NO.	KLMLX21003
DATE	08/28/23
SCALE	AS NOTED
DRAWN BY	SDL
CHECKED BY	MJM
DRAWING NO.	CS605-R.2

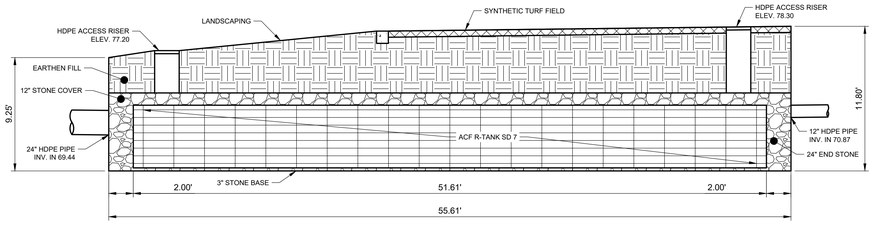
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



PLAN VIEW
N.T.S.



SECTION A-A
N.T.S.

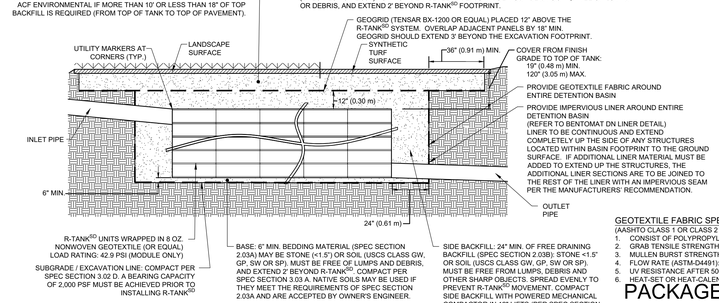


SECTION B-B
N.T.S.

DETAIL- UNDERGROUND BASIN
N.T.S.

TOTAL COVER: 19" MINIMUM AND 120" MAXIMUM. FIRST 12" MUST BE FREE DRAINING BACKFILL (SPEC SECTION 2.03B): STONE <1.5" OR SOIL (USCS CLASS GW, GP, SW OR SP). ADDITIONAL FILL MAY BE STRUCTURAL FILL (SPEC SECTION 2.03C): STONE OR SOIL (USCS CLASS SM, SP, SW, GM, GP OR GW) WITH MAX CLAY CONTENT<10%, MAX 25% PASSING NO. 200 SIEVE, AND MAX PLASTICITY INDEX OF 4. A MIN. 12" COVER MUST BE MAINTAINED BETWEEN BACKFILL EQUIPMENT AND THE TOP OF THE R-TANK™ SYSTEM AT ALL TIMES. TOTAL HEIGHT OF TOP BACKFILL SHOULD NOT EXCEED 10'. CONTACT ACF ENVIRONMENTAL IF MORE THAN 10' OR LESS THAN 18" OF TOP BACKFILL IS REQUIRED (FROM TOP OF TANK TO TOP OF PAVEMENT).

NOTES:
1. FOR COMPLETE MODULE DATA, SEE APPROPRIATE R-TANK® MODULE SHEET.
2. INSTALLATIONS PER THIS DETAIL MEET GUIDELINES OF HL-93 LOADING PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, CUSTOMARY U.S. UNITS, 7TH EDITION, 2014 WITH 2015 AND 2016 INTERIM REVISIONS.
3. PRE-TREATMENT STRUCTURES NOT SHOWN.
4. FOR INFILTRATION APPLICATIONS, GEOTEXTILE ENVELOPING R-TANK SHALL BE ACF M200 (PER SPEC SECTION 2.02A) AND BASE SHALL BE 4" MIN. UNCOMPACTED FREE DRAINING BACKFILL (SPEC SECTION 2.03A) TO PROVIDE A LEVEL BASE. SURFACE MUST BE SMOOTH, FREE OF LUMPS OR DEBRIS, AND EXTEND 2' BEYOND R-TANK® FOOTPRINT.



GEOTEXTILE FABRIC SPECIFICATIONS
(AASHTO CLASS 1 OR CLASS 2 GEOTEXTILE)
1. CONSIST OF POLYPROPYLENE FIBERS
2. GRAB TENSILE STRENGTH (ASTM-D4632): ≥ 120 LBS
3. MULLEN BURST STRENGTH (ASTM-D3786): ≥ 225 PSI
4. FLOW RATE (ASTM-D4491): ≥ 95 GAL/MIN/FT²
5. UV RESISTANCE AFTER 500 HOURS (ASTM-D4355): ≥ 70%
6. HEAT-SET OR HEAT-CALENDARED FABRICS ARE NOT PERMITTED

DETAIL- R-TANK SD HS-25 LOADING - SECTION VIEW
N.T.S.

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
~~08/28/23~~
NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
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REVIEWED BY:

PROJECT COORDINATOR

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M.E.P./F.P./SITE CIVIL ENGINEERS:
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LEED CONSULTANT:
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1635 Market Street Suite 1600
Philadelphia PA 19103

CITY OF PHILADELPHIA
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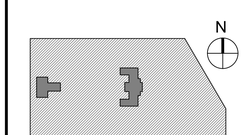
PROJECT TITLE
KINGSESSING RECREATION CENTER

KEY PLAN



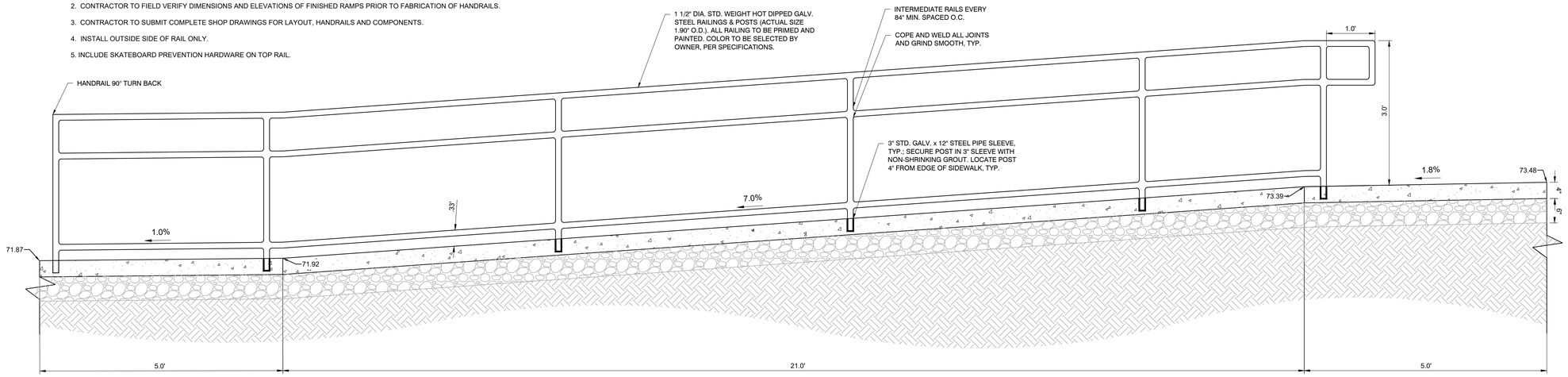
DRAWING TITLE
SITE DETAILS

PROJECT NO. KLMLX21003	DRAWING NO. CS606-R.2
DATE 08/28/23	
SCALE AS NOTED	
DRAWN BY: SDL	
CHECKED BY: MJM	

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

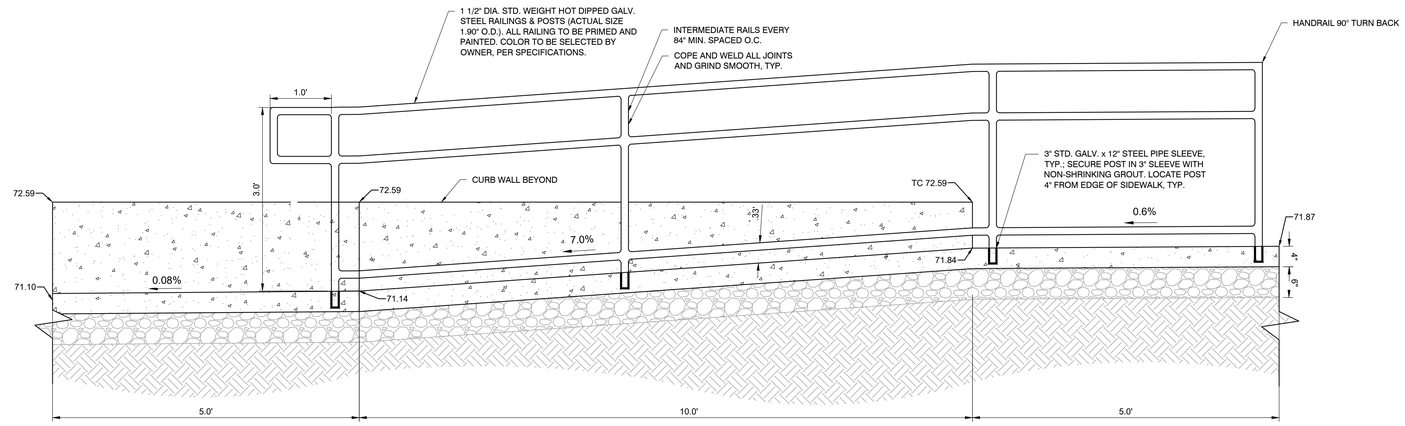
HANDRAIL NOTES:

1. ALL HANDRAILS AND HARDWARE TO BE HOT DIPPED GALVANIZED, PRIMED AND PAINTED. COLOR TO BE DETERMINED BY OWNER, PER SPECIFICATIONS.
2. CONTRACTOR TO FIELD VERIFY DIMENSIONS AND ELEVATIONS OF FINISHED RAMPS PRIOR TO FABRICATION OF HANDRAILS.
3. CONTRACTOR TO SUBMIT COMPLETE SHOP DRAWINGS FOR LAYOUT, HANDRAILS AND COMPONENTS.
4. INSTALL OUTSIDE SIDE OF RAIL ONLY.
5. INCLUDE SKATEBOARD PREVENTION HARDWARE ON TOP RAIL.



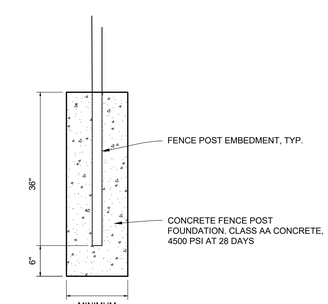
DETAIL- PLAYGROUND RAMP AND RAILING

1"=1'



DETAIL- PLAYGROUND RAMP AND RAILING

1"=1'.



18" DIAMETER: CORNER, END, GATE POSTS, BACKSTOP POSTS, POSTS WITH BALL NET ABOVE

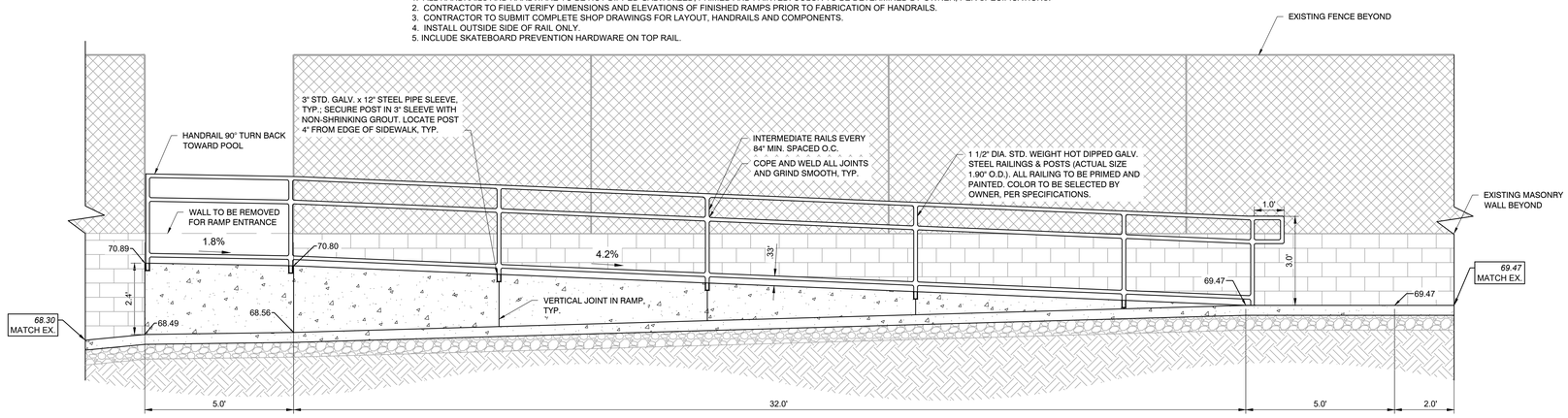
12" DIAMETER: LINE POSTS

DETAIL- FENCE POST FOUNDATION

N.T.S.

HANDRAIL NOTES:

1. ALL HANDRAILS AND HARDWARE TO BE HOT DIPPED GALVANIZED, PRIMED AND PAINTED. COLOR TO BE DETERMINED BY OWNER, PER SPECIFICATIONS.
2. CONTRACTOR TO FIELD VERIFY DIMENSIONS AND ELEVATIONS OF FINISHED RAMPS PRIOR TO FABRICATION OF HANDRAILS.
3. CONTRACTOR TO SUBMIT COMPLETE SHOP DRAWINGS FOR LAYOUT, HANDRAILS AND COMPONENTS.
4. INSTALL OUTSIDE SIDE OF RAIL ONLY.
5. INCLUDE SKATEBOARD PREVENTION HARDWARE ON TOP RAIL.



DETAIL- POOL DECK RAMP AND RAILING

1"=2'

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23
NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
2	02/14/23	PWD PCSM RESUBMISSION
3	05/24/23	PWD PCSM RESUBMISSION

REVIEWED BY:

PROJECT COORDINATOR

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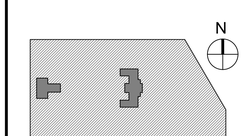
CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1515 ARCH STREET
11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
KINGSESSING RECREATION CENTER

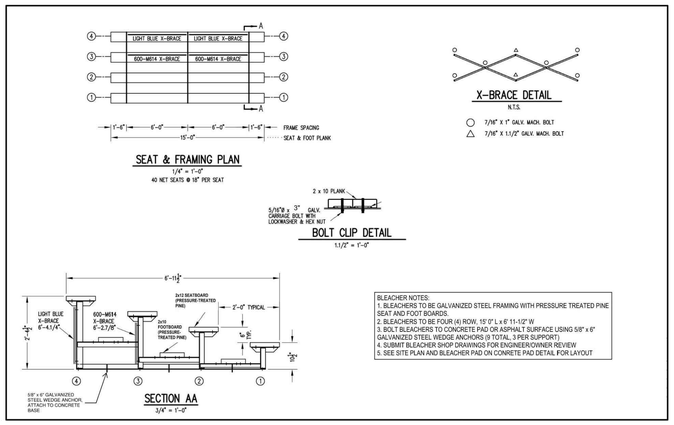
KEY PLAN



DRAWING TITLE
SITE DETAILS

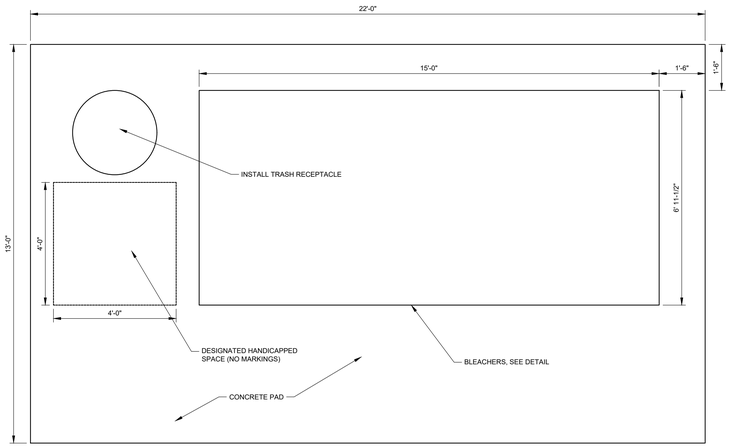
PROJECT NO.	KLMLX21003
DATE	08/28/23
SCALE	AS NOTED
DRAWN BY:	SDL
CHECKED BY:	MJM
DRAWING NO.	CS607-R.2

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

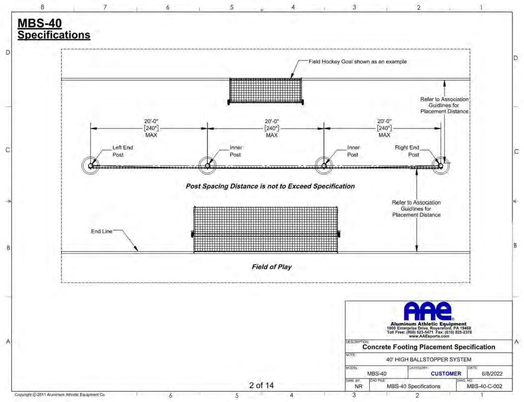


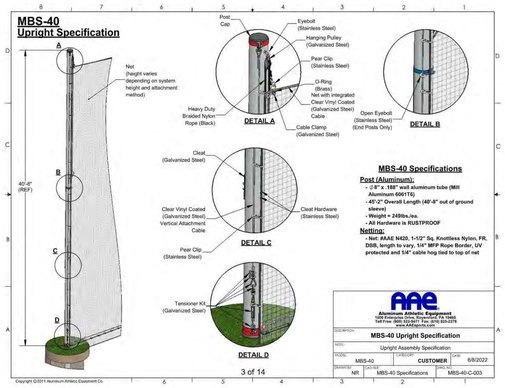
BLEACHER NOTES:
1. BLEACHERS TO BE GALVANIZED STEEL FRAMING WITH PRESSURE TREATED PINE SEAT AND FOOT BOARDS.
2. BLEACHERS TO BE FOUR (4) ROW, 15' 0" L x 6' 11-1/2" W.
3. BOLT BLEACHERS TO CONCRETE PAD OR ASPHALT SURFACE USING 5/8" x 6" GALVANIZED STEEL WEDGE ANCHORS (9 TOTAL, 3 PER SUPPORT)
4. SUBMIT BLEACHER SHOP DRAWINGS FOR ENGINEER/OWNER REVIEW
5. SEE SITE PLAN AND BLEACHER PAD ON CONRETE PAD DETAIL FOR LAYOUT

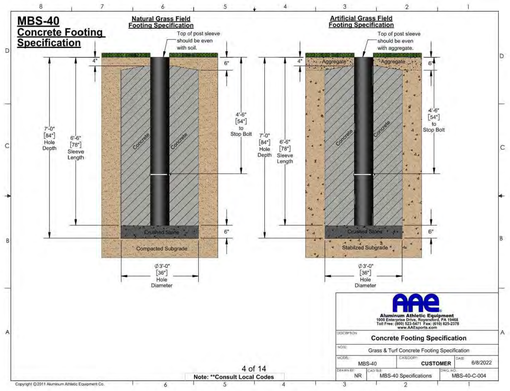
DETAIL- 4 ROW SPECTATOR BLEACHERS
N.T.S.



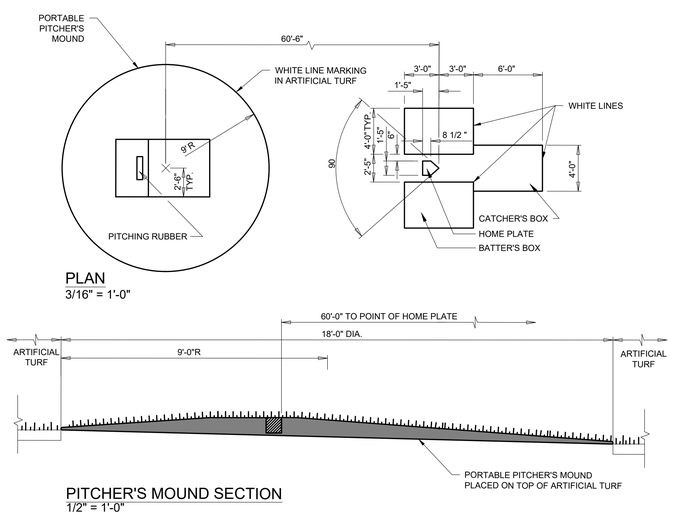
DETAIL- CONCRETE BLEACHER PAD LAYOUT
N.T.S.



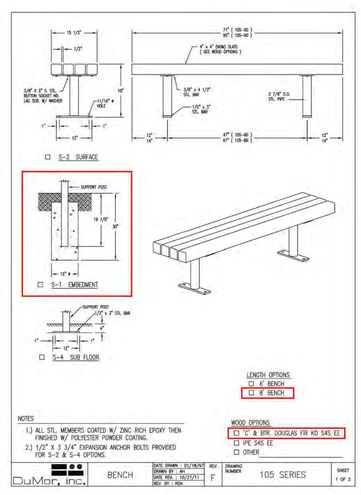




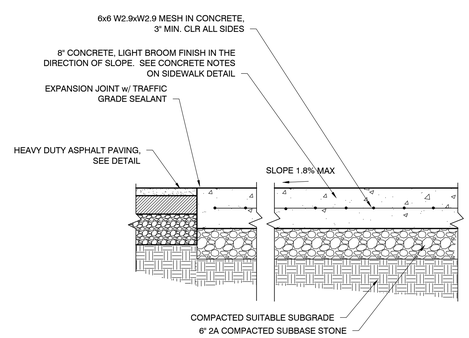
DETAIL- 40" HIGH BALLSTOPPER NET
N.T.S.



DETAIL- MOVABLE PITCHER'S MOUND / HOME PLATE
N.T.S.



DETAIL- PLAYERS' BENCHES
N.T.S.



DETAIL- TRANSITION FROM ASPHALT TO CONCRETE PAVING
N.T.S.

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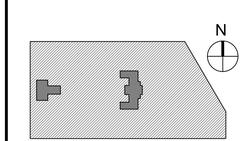
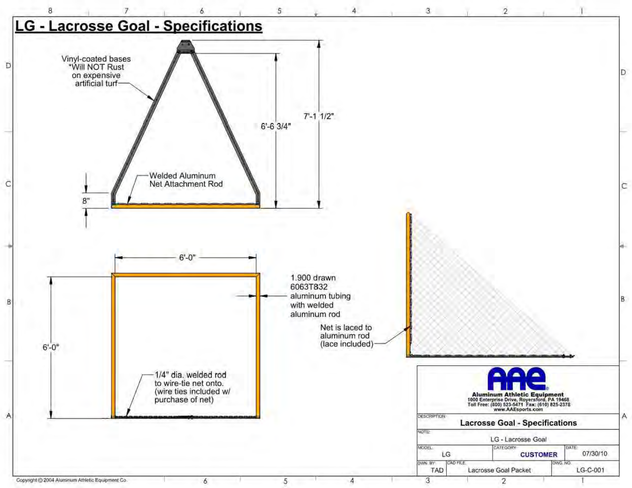


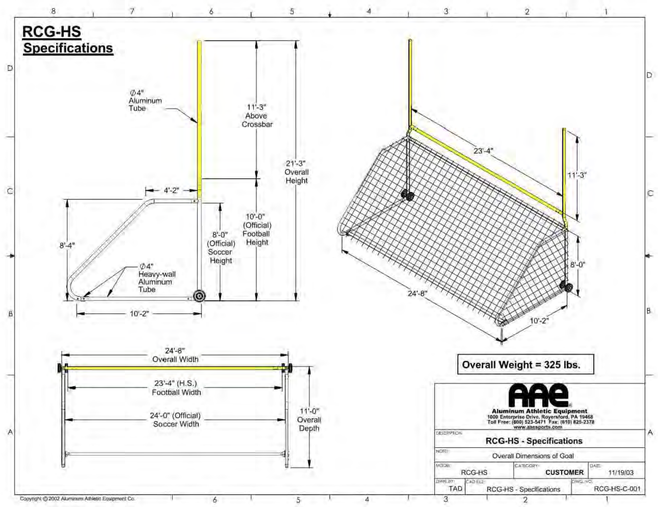
DRAWING TITLE
SITE DETAILS

PROJECT NO. KLMLX21003	DRAWING NO. CS608-R.2
DATE 08/28/23	
SCALE AS NOTED	
DRAWN BY: SDL	
CHECKED BY: MJM	

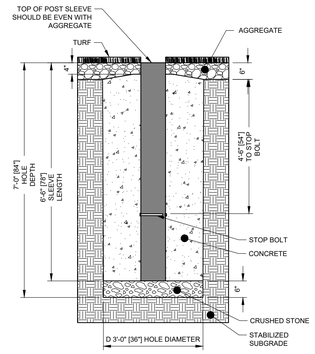
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



DETAIL- LACROSS GOAL DETAIL
N.T.S



DETAIL- COMBINATION FOOTBALL/SOCCER GOAL
N.T.S



DETAIL- 40' HEIGHT BALL CONTROL NET CONCRETE FOOTING DETAIL
N.T.S.

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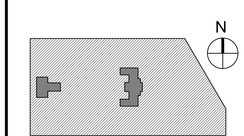

DRAWING TITLE
SITE DETAILS

PROJECT NO.	KLMLX21003
DATE	08/28/23
SCALE	AS NOTED
DRAWN BY:	SDL
CHECKED BY:	MJM
DRAWING NO.	CS609-R.2

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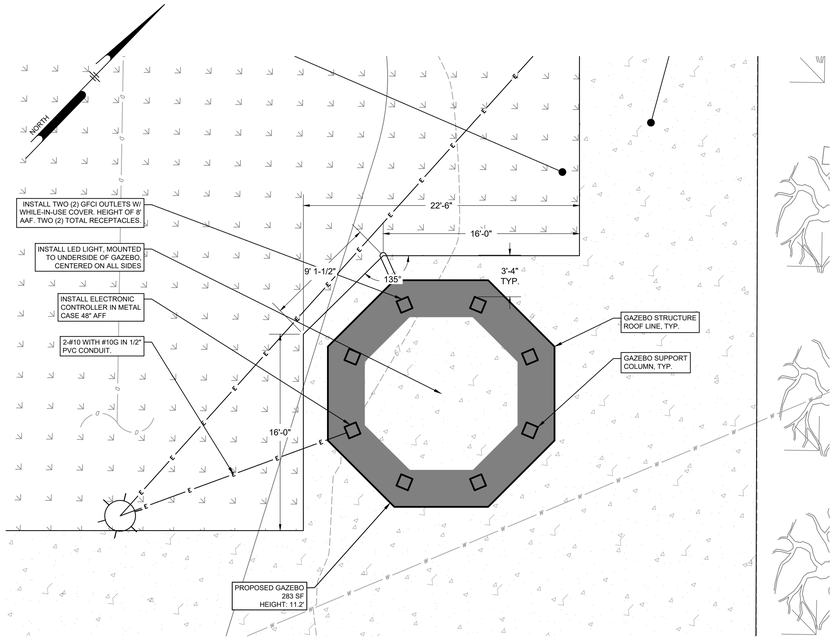


DETAIL PLAN - SHADE STRUCTURE

SCALE: 1"=5'-0"

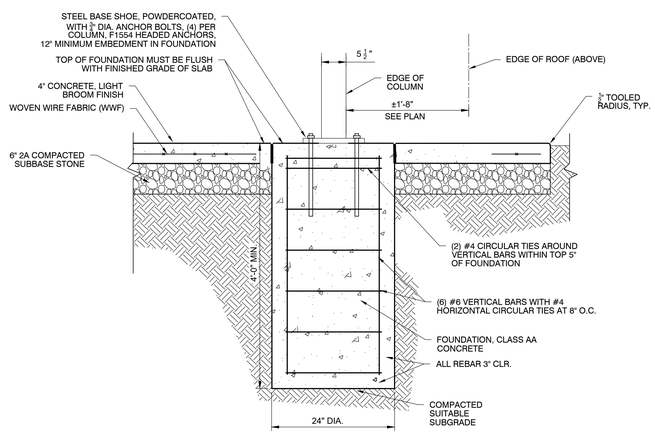
0 5' 10'

SHADE STRUCTURE NOTES:

1. COMFORT STATION SHADE STRUCTURE IS TO BE 20' OCTAGON SHELTER AS MANUFACTURED BY POLIGON (POLIGON.COM), MODEL #OTC20.
   - SINGLE TIER
   - STANDING SEAM ROOF
2. THE LAYOUT PROVIDED IS FOR INFORMATION ONLY. REFER TO WRITTEN INSTALLATION INSTRUCTIONS FROM POLIGON FOR DETAILED LAYOUT PLAN, COLUMN SPACING, TEMPLATES, AND LAYOUT INSTRUCTIONS FOR THE COLUMNS AND ANCHORS.
3. STEEL POWDERCOAT AND ROOF COLORS TO BE SELECTED BY OWNER.

PAVILION RECEPTACLE MOUNTING DETAIL

SCALE: N.T.S.



SHADE STRUCTURE PAD AND POST FOUNDATIONS

Electronic Timer Control - ET1725C

INTERMATIC

Electronic Timer Control - 7-Day 2-Circuit Electronic Control, 120-277 VAC, 2-SPST, Indoor Metal Enclosure

Item ET1725C

PRODUCT DESCRIPTION

This series offers an easy way to upgrade from a basic mechanical time switch to an electronic time switch. These timers will allow for up-to-five-minute programming, battery backup for power loss, up to 28 events total, and automatic daylight saving time corrections without the need of user interaction. They come in standard 24-hour, 7-day and 7-day astronomic versions.

FEATURES

- Selector switch to determine input voltage between 120-277 VAC
- Up to 28 events total
- To-the-minute accuracy
- Temporary override or permanent manual override
- Automatic Daylight Saving Time adjustment
- Astronomic models enable dusk-to-dawn scheduling

APPLICATIONS

- Indoor Lighting Control
- Timing/Scheduling ON/OFF
- Machinery & Pump Controls

TECHNICAL DATA

General	
Model Number	ET1725C
Description	7-Day 2-Circuit Electronic Control, 120-277 VAC, 2-SPST, Indoor Metal Enclosure
UPC Code	078271198865
Brand	Intermatic
Country of Origin (Intermatic)	CHINA
Warranty Period	1-Year limited
Control Specifications	
Minimum ON/OFF Times	1 min
Minimum Pulse Time	2 sec
Maximum Pulse Time	2 sec
Maximum ON/OFF Times	Indefinite
Maximum ON/OFF Operations	28
Setpoint Program Count	28
ON/OFF Operations	28
Operation Mode	7 day
Daylight Savings Adjustment	Automatic
Backup Type	Battery
Battery Type	AAA
Battery Service Type	Field Serviceable
Mechanical Specifications	
Enclosure Type	Indoor type 1 metal
Dimensions	

Technical specifications and other information are subject to change without notice. Images can vary from originals

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Electronic Timer Control - ET1725C

INTERMATIC

Product Dimensions (H x W x D) in	7.875 x 5.125 x 3.4375 in
Wire Size Min	#14 AWG
Wire Size Max	#8 AWG
Knockout Dimensions Bottom	(2) combination 1/2" - 3/4"
Knockout Dimensions Back	(1) combination 1/2" - 3/4"
Load Ratings	
Tungsten Rating(s)	5 A, 120-240 VAC
Electronic Ballast Load Ratings Ranges	1 A, 120-277 VAC
Magnetic Ballast (NO) Rating(s)	20 A, 120-277 VAC
Resistive (NO) Rating(s)	20 A, 28 VDC; 30 A, 120/240 VAC
Inductive Load Ratings NO Ranges	30 A, 120/240 VAC
Resistive Load Ratings Ranges	20 A, 28 VDC; 30 A, 120/240 VAC
Tungsten (NO) Rating(s)	5 A, 120/240 VAC
Motor Load Ratings Ranges	1 HP, 120 VAC; 2 HP, 240 VAC
Motor Load Ratings NO Ranges	1 HP, 120 VAC; 2 HP, 240 VAC
Electrical Specifications	
Voltage Selection Type	Selector Switch
Wiring Option	Terminals
Input Voltage Rating(s)	120-277 VAC, 50/60 Hz
Number of Circuits	2
Switch Type	2xSPST, 1xSPST or Pulse
Maximum Power Consumption (W)	6 W
Electronic Series	ET1700 Series
Packaging	
Unit Carton Dimensions (H x W x L) in	3.131 x 5.251 x 8.001 in
Environmental Specifications	
Temperature (operation)	-40 °F to 104 °F (-40 °C to 40 °C)
Standards and Certifications	
CSA Certification	cCSAus
Other Certifications and Compatibilities	Title 20
California Proposition 65	Lead

Technical specifications and other information are subject to change without notice. Images can vary from originals

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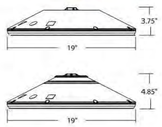
PRODUCT CUT SHEET - LIGHT TIMER/DIMMER

VCPG LED
Parking Garage

Specifications
Diameter: 19"
Height: 3.75" (4.85" with LED Light)
Weight (max. with no options): 18 lbs



A+ Capable options indicated by this color background.

Introduction
The all new VCPG LED (Visually Comfortable Parking Garage) luminaire is designed to bring glare control, optical performance and energy savings into one package. The recessed lens design of VCPG LED minimizes high angle glare, while its precision molded acrylic lens eliminates LED pixelation and delivers the required minimums, verticals and uniformity. The dedicated up-light module option reduces the contrast between the luminaire and the ceiling creating a more visually comfortable environment.

The VCPG LED delivers up to 87% in energy savings when replacing 175W metal halide luminaires. With over 100,000 hour life expectancy (12+ years of 24/7 continuous operation), the VCPG LED luminaire provides significant maintenance savings over traditional luminaires.

Ordering Information — EXAMPLE: VCPG LED V4 P4 40K 70CRI T5M MVOLT SRM DNAXD

VCPG LED

Series	LEDs Light Engine	Package	Color Temperature	Color Rendering Index	Distribution	Voltage	Mounting
VCPG LED	V4[1] 4 Light Engines V8[1] 8 Light Engines	P1[1] P2[1] P3[1] P4[1] P5[1] P6[1] P7[1]	30K 3000 K 35K 3500 K 40K 4000 K 50K 5000 K	70CRI 80CRI	T1M type V, medium T1M[1] type V, medium T5W type V, rectangular T5W type V, wide T5E type V, entry LCAM[1] Driver case	MVOLT 347 480 120 208 240 277 347 480	For ordering with fuse **Shipped included** PIR Pendant mount standard (24-inch length supply leads) SRM Surface mount (24-inch length supply leads) ARM Arm mount (use PSFARM accessory to mount to a wall) **Shipped separately** YK Yoke/trunnion mount[1]

Options			Finish (opposite)	Packaging
Shipped installed UPL1 Up-Light 500 lumens UPL2 Up-Light 700 lumens EBWC Emergency battery backup, Certified to CA Title 20 MAEDBS (0°C, -20°C max)[2,3,4,6] ESTWRH Emergency battery backup, Certified to CA Title 20 MAEDBS (10°C, 0°C max)[2,3,4,6] HA High ambient (50°C, only P1-P4) SF Single fuse (120V, 277V, 347V) DF Double fuse (208V, 240V, 480V) SPD10KV 10KV Surge Pack LS536 Slim (TRS) lead length LS572 7 Slim (SRL) lead length LS7538 10 Slim (SRL) lead length DMG External 0-10V leads (no controls)[7] SP Tamper proof screws **Shipped Separately** WG Wire Guard RDS Wall Shroud HS House Side Shield BSW Bird Spikes	**Standalone Sensors/Controls[8]** PIR Motion/ambient sensor for 8-15' mounting heights PIRHI Motion/ambient sensor for 15-30' mounting heights PIRFCSV Motion/ambient sensor for 8-15' mounting heights, pre-programmed to 3fc and 25% light output PIRHIFCSV Motion/ambient sensor for 15-30' mounting heights, pre-programmed to 3fc and 25% light output **Networked Sensors/Controls[8]** NLTAIR2 PIR nLIGHT AIR Wireless enabled motion/ambient sensor for 8-15' mounting heights NLTAIR2 PIRHI nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights NLTAIR2 PIRH24 nLIGHT AIR Wireless enabled, UL924 Listed motion/ambient sensor for 8-15' mounting heights[9] NLTAIR2 PIRHI24 nLIGHT AIR Wireless enabled, UL924 Listed motion/ambient sensor for 15'-30' mounting heights[9]	DWHXD White DNAXD Natural aluminum DDBXD Dark bronze DBLXD Black	(blank) Bulk Pack (ships as 1 lift gate of 18pcs per 2skids or 36 crates) U Unit packs only

LITHONIA LIGHTING

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800-705-SERV (7378) • www.lithonialighting.com
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VCPG LED
Rev. 02/22/23

Ordering Information Cont.

Accessories
Ordered and shipped separately.

VCPG8DS DWHXD U	Bird shroud for P1M (specify finish)	VCPG4WG U	Wire guard
VCPG8DS PX DWHXD U	Bird shroud for P1 (specify finish)	SQ5SQ	Quick mount pendant swivel kit, square
VCPG4DBS DWHXD U	Bird shroud for P1M with Up-Light (specify finish)	SQ9SQ	Quick mount pendant swivel kit, round
VCPG4DBS PX DWHXD U	Bird shroud for 1M with Up-Light (specify finish)	VCPG YK DWHXD U	Yoke mount kit (specify finish)
VCPGSRM U	Surface mount kit, with no Up-Light	RSXWBA DWHXD U	RSX WBA wall bracket (specify finish)
VCPGSRMI U	Surface mount kit, with Up-Light	VCPGHS DWHXD U	House side shield (specify finish)
VCPGSC120	Safety cable 120"		

NOTES
1. P1-P6 not available with V8. P7 not available with V4.
2. Not available with P7.
3. Not available with adjustment. No angle adjustment. Use PM and SQ5SQ or SQ9SQ for mounting to angled ceiling or canopies.
4. Not available with 347V or 480V.
5. EBWC and ESTWRH only rated up to 35°C ambient.
6. EBWC & ESTWRH only available with P1-P4 packages.
7. DMG option not available with standalone or networked sensor/controls.
8. Needs an nLight Air Revolve Power Sensing (NPS) device in the group. VCPG NLTAIR2 PIR and PIRH devices cannot act as NPS devices.

Performance Data

Lumen Output
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	Watts	30K (3000K, 70 CRI) Lumens	30K (3000K, 70 CRI) LPW	35K (3500K, 70 CRI) Lumens	35K (3500K, 70 CRI) LPW	40K (4000K, 70 CRI) Lumens	40K (4000K, 70 CRI) LPW	50K (5000K, 70 CRI) Lumens	50K (5000K, 70 CRI) LPW
P1	27W	TSE	3,581	135	3,679	138	3,815	144	3,876	146
		TSM	3,620	136	3,718	140	3,856	145	3,917	147
		TSW	3,592	135	3,687	139	3,827	144	3,888	146
		TSR	3,464	130	3,558	134	3,690	139	3,749	141
		LAME	3,587	132	3,694	135	3,736	141	3,796	143
P2	34W	TSE	4,577	135	4,691	138	4,876	144	4,954	146
		TSM	4,626	136	4,741	140	4,928	145	5,007	147
		TSW	4,591	135	4,705	139	4,891	144	4,968	146
		TSR	4,427	130	4,537	134	4,716	139	4,791	141
		LAME	4,482	132	4,594	135	4,775	141	4,851	143
P3	41W	TSE	5,808	134	5,952	137	6,187	143	6,286	145
		TSM	5,873	135	6,015	139	6,253	144	6,353	146
		TSW	5,825	134	5,970	138	6,205	143	6,304	145
		TSR	5,617	130	5,757	133	5,984	138	6,079	140
		LAME	5,688	131	5,829	134	6,059	140	6,155	142
P4	56W	TSE	7,391	131	7,575	135	7,874	140	7,999	142
		TSM	7,470	133	7,656	136	7,958	141	8,085	144
		TSW	7,414	132	7,597	135	7,898	140	8,023	143
		TSR	7,149	127	7,326	130	7,615	135	7,737	137
		LAME	7,236	129	7,418	132	7,711	137	7,834	139
P5	82W	TSE	10,188	124	10,442	127	10,854	132	11,027	134
		TSM	10,298	125	10,553	128	10,970	134	11,145	136
		TSW	10,220	124	10,473	128	10,887	133	11,060	135
		TSR	9,852	120	10,099	123	10,498	128	10,665	130
		LAME	9,978	121	10,228	124	10,629	129	10,799	131
P6	105W	TSE	12,878	120	13,197	123	13,719	127	13,937	129
		TSM	13,015	121	13,338	124	13,865	129	14,086	131
		TSW	12,917	120	13,237	123	13,764	128	13,979	130
		TSR	12,455	116	12,764	119	13,268	123	13,480	125
		LAME	12,611	117	12,924	120	13,435	125	13,649	127
P7	122W	TSE	15,383	126	15,807	129	16,515	135	16,776	138
		TSM	15,468	126	16,057	129	16,691	135	16,957	137
		TSW	15,549	125	15,937	129	16,564	134	16,828	136

Up-light Lumen Output

Up-Light Lumens	Watts	Lumens
UPL1	8.5W	515
UPL2	8.7W	715

Lumen Multiplier for 80CRI

CCT	Multiplier
30K	0.936
35K	0.941
40K	0.962
50K	0.965

Lumen Ambient Temperature (LAT) Multipliers
Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C 32°F	1.03
10°C 50°F	1.02
20°C 68°F	1.01
25°C 77°F	1
30°C 86°F	0.99
40°C 104°F	0.98

Projected LED Lumen Maintenance
Data references the extrapolated performance projections for the platform operating at a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).
To calculate LLD, apply the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.97	0.94	0.89

Electrical Load

System Package	System Watts	Current (A) 120V	208V	240V	277V	347V	480V
P1	27W	0.23	0.13	0.12	0.10	0.08	0.06
P2	34W	0.28	0.16	0.14	0.13	0.10	0.08
P3	41W	0.37	0.21	0.18	0.16	0.13	0.09
P4	56W	0.48	0.28	0.24	0.21	0.16	0.12
P5	82W	0.68	0.40	0.35	0.30	0.24	0.18
P6	104W	0.91	0.52	0.45	0.39	0.32	0.22
P7	124W	1.03	0.59	0.51	0.44	0.37	0.27

LITHONIA LIGHTING

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800-705-SERV (7378) • www.lithonialighting.com
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VCPG LED
Rev. 02/22/23

PRODUCT CUT SHEET - LED LIGHT FIXTURE

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23
NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
2	02/14/23	PWD PCSM RESUBMISSION
3	05/24/23	PWD PCSM RESUBMISSION
7	06/28/23	ADDENDUM #1

REVIEWED BY:

PROJECT COORDINATOR

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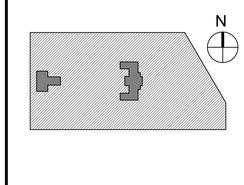
CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1515 ARCH STREET
11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
KINGSESSING RECREATION CENTER

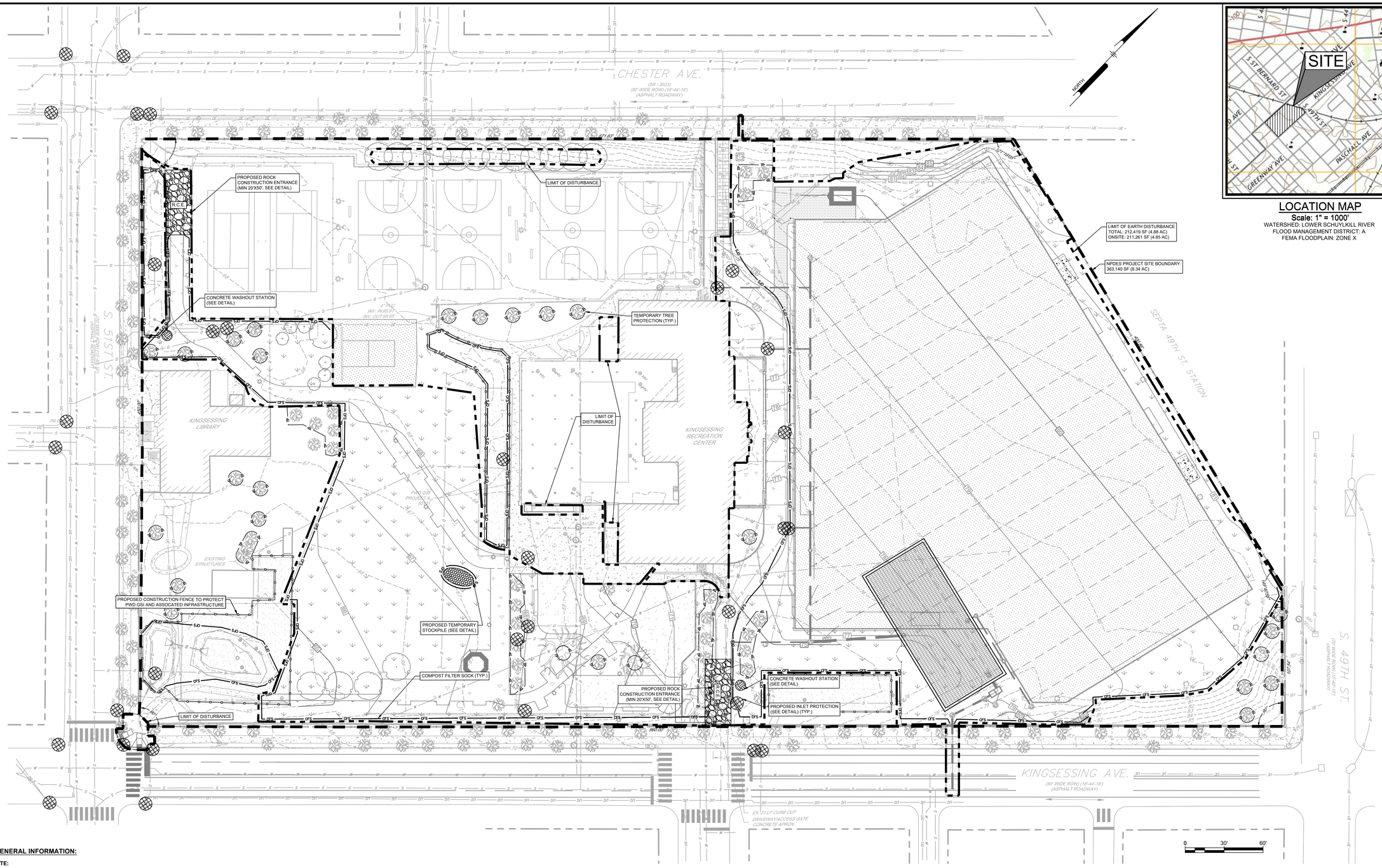
KEY PLAN

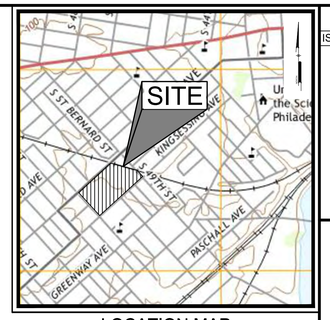


DRAWING TITLE
SITE IMPROVEMENT PLAN SOUTH

PROJECT NO. KLMLX21003
DATE 08/28/23
SCALE 1" = 5'
DRAWN BY: SDL
CHECKED BY: MJM
DRAWING NO. C-610-R.2

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





LOCATION MAP

Scale: 1" = 1000'

WATERSHED: LOWER SCHUYLKILL RIVER
FLOOD MANAGEMENT DISTRICT: A
FEMA FLOODPLAIN: ZONE X

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
2	02/14/23	PWD PCSM RESUBMISSION
3	05/24/23	PWD PCSM RESUBMISSION

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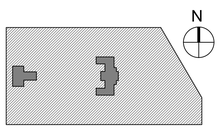
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE

KINGSESSING RECREATION CENTER

KEY PLAN



DRAWING TITLE

EROSION & SEDIMENTATION CONTROL PLAN

PROJECT NO.	KLMLX21003
DATE	08/28/23
SCALE	1" = 30'
DRAWN BY:	SDL
CHECKED BY:	MJM
DRAWING NO.	C-801-R.2

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

GENERAL INFORMATION:

SITE:

4901 KINGSESSING AVE
PHILADELPHIA, PA 19143
OPA#783249500

CLIENT:

CITY OF PHILADELPHIA
PARKS AND RECREATION
1515 ARCH STREET, 10TH FLOOR
PHILADELPHIA, PA 19102

ENGINEER:

PENNONI ASSOICATES
1900 MARKET STREET, SUITE 300
PHILADELPHIA, PA 19103

REFERENCES:

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A PLAN BY AMERICAN ENGINEERS GROUP, LLC ENTITLED "KINGSESSING RECREATION CENTER TOPOGRAPHIC SURVEY", SHEET NO. 1, DATED 03/12/2021.

EXISTING LEGEND

- EXISTING PROPERTY LINE (APPROXIMATE)
- EXISTING RIGHT OF WAY LINE (APPROXIMATE)
- EXISTING BUILDING
- EXISTING CURB
- EXISTING SIDEWALK
- EXISTING EDGE OF MACADAM/GRAVEL
- EXISTING TRAFFIC MARKING
- EXISTING FENCE
- EXISTING TREE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SIGN
- EXISTING BOLLARD
- EXISTING UTILITY POLE
- EXISTING LIGHT
- EXISTING INLET
- EXISTING SEWER
- EXISTING STORM SEWER
- EXISTING WATER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD WIRES
- EXISTING UTILITY STRUCTURES

PROPOSED LEGEND

- PROPOSED BUILDING
- PROPOSED DOOR
- PROPOSED CONCRETE PAVEMENT
- PROPOSED ASPHALT PAVEMENT
- PROPOSED LANDSCAPED AREA
- PROPOSED UNIT PAVERS
- PROPOSED POROUS PLAYGROUND SAFETY SURF
- PROPOSED SYNTHETIC TURF FIELD
- PROPOSED ADA RAMP
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED WALL
- PROPOSED STOP BAR/PAVEMENT MARKING
- PROPOSED FENCE
- PROPOSED SIGN
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED STORM INLET
- PROPOSED STORM MANHOLE
- PROPOSED STORM CLEANOUT
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATER LINE
- PROPOSED FIRE LINE
- PROPOSED NATURAL GAS LINE
- PROPOSED CABLE/TELEPHONE LINE
- PROPOSED ELECTRIC LINE

EROSION AND SEDIMENT CONTROL LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED NPDES PROJECT SITE BOUNDARY
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED STOCKPILE
- PROPOSED INLET PROTECTION
- PROPOSED CONCRETE WASHOUT
- PROPOSED TREE PROTECTION
- PROPOSED COMPOST FILTER SOCK
- PROPOSED CONSTRUCTION FENCE

PROPOSED LEGEND

PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776 STOP-CALL BEFORE YOU DIG!

CALL BEFORE YOU DIG
BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA
CALL 1-800-242-1776
PA. ACT 287 OF 1974 REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL OR BLAST PENNSYLVANIA ONE-CALL SYSTEM, INC.
SERIAL NUMBER(S): 20212583952

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23

NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

PWD STANDARD EROSION AND SEDIMENTATION CONTROL NOTES:

1. AN INDUSTRIAL WASTE PERMIT WILL BE REQUIRED SHOULD PUMPING TO CITY-OWNED INFRASTRUCTURE BECOME NECESSARY DURING CONSTRUCTION. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
2. INLET PROTECTION SHOULD BE PROVIDED FOR ALL INLETS OWNED BY PWD THAT ARE LOCATED WITHIN ONE BLOCK OF THE PROJECT SITE.
3. PWD IS NOT RESPONSIBLE FOR ANY CLEANING OR REPAIRS NEEDED ON CITY-OWNED INFRASTRUCTURE DUE TO FAILURE OF ANY EROSION AND SEDIMENT CONTROL PRACTICES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CLEANING OR REPAIRS NEEDED.
4. INSPECTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT BEST MANAGEMENT PRACTICES SHALL OCCUR ON A WEEKLY BASIS, BEFORE ANY ANTICIPATED PRECIPITATION EVENTS, AND AFTER ALL PRECIPITATION EVENTS.
5. THE MAXIMUM HEIGHT FOR STOCKPILES AREAS SHALL BE 20 FEET. THE MAXIMUM SIDE SLOPE FOR STOCKPILE AREAS SHALL NOT EXCEED 2:1.
6. THE ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED ON-SITE. A STOCKPILE SHALL BE MAINTAINED ON-SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
7. FILTER FABRIC FENCE AND/OR COMPOST FILTER SOCK SHOULD BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE/SOCK SECTION SHOULD BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. SUPPORT STAKES SHALL BE SPACED AT A MAXIMUM OF 8 FEET. OBJECTS OF CONSIDERABLE MASS (E.G. CONCRETE BLOCKS, SAND BAGS, ETC.) SHALL BE USED IMMEDIATELY DOWNSLOPE OF COMPOST FILTER SOCKS PLACED ON PAVED SURFACES IN LIEU OF STAKES TO HOLD THE SOCK IN PLACE. OBJECTS TO BE PLACED AT INTERVALS PER THE COMPOST FILTER SOCK MANUFACTURER'S SPECIFICATION OR PA DEP MAXIMUM SPACING OF 10' ON CENTER. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FILTER FENCE/FILTER SOCK.
8. ANY FENCE/SOCK SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.
9. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
10. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY PWD AND PA DEP.
11. UNTIL THE SITE IS STABILIZED, ALL E&S BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL E&S BMPS PRIOR TO ANY ANTICIPATED STORM EVENT, AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED, WILL BE REQUIRED.
12. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING, AS WELL AS CUTS AND FILLS, SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. PWD SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. PWD MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
13. AT LEAST THREE(3) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
14. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY PWD AND THE PA DEP PRIOR TO IMPLEMENTATION.
15. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
16. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING, AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
17. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
18. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO PWD AT THE TIME OF INSPECTION.
19. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL STATE, FEDERAL, AND LOCAL REGULATIONS.
20. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF THREE TO FIVE INCHES -- SIX TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM FOUR INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF TWO INCHES OF TOPSOIL.
21. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
22. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED NINE INCHES IN THICKNESS.
23. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
24. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
25. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
26. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
27. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
28. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN ONE YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN ONE YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
29. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
30. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY PWD AND PA DEP.
31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE E&S BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
32. SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS.
33. DURING CONSTRUCTION, THE SELECTED CONTRACTOR IS EXPECTED TO FOLLOW THE PCSMP APPROVED BY PWD. NO CHANGE OR DEVIATION FROM THE APPROVED PCSMP IS PERMITTED WITHOUT PRIOR APPROVAL FROM PWD.
34. ALL WORK ASSOCIATED WITH PWD WATER CONVEYANCE AND SEWER INFRASTRUCTURE SHALL BE DONE IN ACCORDANCE WITH THE CITY OF PHILADELPHIA WATER DEPARTMENT "WATER MAIN STANDARD DETAILS AND CORROSION CONTROL SPECIFICATIONS", 1985 EDITION, AND "STANDARD DETAILS AND STANDARD SPECIFICATIONS FOR SEWERS", 1985 EDITION.
35. CONTACT PWD WATER TRANSPORT RECORDS (1101 MARKET STREET, 2ND FLOOR, PHONE: 215-685-6271) FOR ADDITIONAL APPROVALS AND PERMITS REQUIRED FOR ALL WATER SERVICES, METERS, AND CONNECTIONS TO THE EXISTING AND/OR PROPOSED PWD FACILITIES.
36. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE PADEP'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
37. A DUST CONTROL PERMIT WILL BE REQUIRED WHEN COMPLETELY DEMOLISHING A BUILDING OR STRUCTURE THAT IS MORE THAN THREE (3) STORIES, GREATER THAN FORTY (40) FEET TALL, OR ENCOMPASSES MORE THAN TEN THOUSAND (10,000) SQUARE FEET; COMPLETELY OR PARTIALLY DEMOLISHING ANY BUILDING OR STRUCTURE BY IMPLOSION; OR ENGAGING IN EARTHWORKS, DEFINED AS "CLEARING, GRUBBING, OR EARTH DISTURBANCE OF ANY LAND IN EXCESS OF 5,000 SQUARE FEET."

DUST CONTROL MEASURES:

1. FUGITIVE DUST FROM CONSTRUCTION, DEMOLITION, AND EARTHWORKS ACTIVITIES MAY NOT BE VISIBLE AT THE POINT IT PASSES THE WORK SITE PROPERTY LINE.
2. USE OF VACUUM OR SIMILAR SUCTION SYSTEMS TO CAPTURE DUST KICKED UP BY POWER TOOLS WHEN GRINDING / CUTTING
3. APPLICATION OF WATER OR APPROVED DUST SUPPRESSANT TO A WORK SITE WITH ONGOING EXCAVATION, LAND CLEARING, DEMOLITION, OR OTHER EARTH DISTURBANCE RELATED ACTIVITIES TO SUPPRESS DUST FORMATION.
4. GENERAL PROHIBITION AGAINST DRY ABRASIVE BLASTING OF EXTERIOR SURFACES OPEN TO THE OUTSIDE AIR WHEN TEMPERATURE IS ABOVE FREEZING.
5. COVERING AND WETTING OF STOCKPILE EARTH, SAND, GRAVEL, AND OTHER SIMILAR CONSTRUCTION MATERIALS.
6. USE OF A MATERIAL CHUTE WHEN DROPPING MATERIAL OR DEBRIS MORE THAN 20 FT OUTSIDE OF THE EXTERIOR WALLS OF A BUILDING OR STRUCTURE. MATERIALS MUST BE WETTED WHEN DROPPED, AND / OR EXIT OF CHUTE MUST BE SEALED AGAINST THE TOP OF THE RECEIVING CONTAINER / DUMPSTER.
7. ALL TEMPORARY PERIMETER FENCING AROUND MUST HAVE A DUST CONTROL FABRIC; MUST MEASURE A MINIMUM OF 5FT IN HEIGHT FROM THE BOTTOM OF THE FENCING.
8. A 10 MILE PER HOUR SPEED LIMIT FOR ALL EQUIPMENT AND TRUCKS TRAVELING WITHIN THE WORK SITE.
9. WETTING AND SWEEPING OF ROADWAYS / ACCESS ROAD IN A WORK SITE TO PREVENT DUST FORMATION.
10. VEHICLE ACCESS POINTS MUST BE EQUIPPED WITH DUST SUPPRESSION MEASURES (I.E. WHEEL WASH SYSTEMS, RUMBLE GRATES, AND OR GRAVEL PADS).

TEMPORARY EROSION AND SEDIMENT CONTROL:

1. INLET PROTECTION SHALL BE APPLIED, AS DETAILED ON THE PLAN, TO EVERY INLET WHICH HAS BEEN CONSTRUCTED TO THE ROADWAY SUBBASE ELEVATION. INLET PROTECTION MUST BE PROVIDED FOR ALL CITY OWNED INLETS LOCATED WITHIN ONE CITY BLOCK OF THE PROJECT SITE.
2. SILT FENCES/COMPOST FILTER SOCKS SHALL BE INSTALLED DOWNSLOPE OF ALL AREAS TO BE DISTURBED BEFORE ANY WORK BEGINS. SILT FENCE/COMPOST FILTER SOCKS AND ROCK FILTERS SHALL BE INSTALLED AS NEAR AS POSSIBLE TO THE LOCATIONS SHOWN ON THE PLAN. FILTER FABRIC/COMPOST FILTER SOCKS SHOULD BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION SHOULD BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. SUPPORT STAKES AND/OR OBJECTS OF CONSIDERABLE MASS SHALL BE SPACED AT A MAXIMUM OF 8 FEET. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FILTER FENCE/FILTER SOCK.
3. STOCKPILED TOPSOIL MOUNDS SHALL BE STABILIZED BY APPLYING TEMPORARY SEED AND A PERIMETER SILT FENCE/FILTER SOCK SHALL BE INSTALLED AROUND EACH MOUND. TEMPORARY SEEDING SHALL BE PER PENNDOT FORM 408, SECTION 804(B).
4. ALL STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS NEAR AS POSSIBLE TO THE LOCATION SHOWN ON THE PLAN. THE ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED ON SITE. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.
5. FREQUENT INSPECTION SHALL BE MADE ON THE FILTER FABRIC FENCE/COMPOST FILTER SOCK. DAMAGED FENCES/SOCK SHALL BE IMMEDIATELY REPLACED. SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHTS OF FENCE/SOCK. SILT FENCE/COMPOST FILTER SOCK WHICH HAS BEEN TOPPED OR UNDERMINED IS TO BE REPLACED WITH A ROCK FILTER OUTLET. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.

PROCEDURE FOR STABILIZATION OF SOILS FOUND OR SUSPECTED TO BE CONTAMINATED:

1. DISTURBED EARTH TO BE IMMEDIATELY STABILIZED WITH SEEDING THROUGH THE USE OF HYDROSEEDING TECHNIQUES AND HAY OR STRAW MULCHING TO CONTAIN CONTAMINATED SOILS.
2. PLASTIC LINER TO BE INSTALLED BELOW TEMPORARY TOPSOIL STOCKPILES. TOPSOIL STOCKPILE TO BE STABILIZED WITH SEEDING AND TO BE COVERED BY A TEMPORARY DAILY COVER IMMEDIATELY PER THE REQUIREMENTS OF THE PADEP E&S GUIDELINES.
3. EXPOSED SOILS TO BE SPRINKLED WITH WATER ON A DAILY BASIS UNTIL MOIST TO PREVENT DUST GENERATION AND TRANSPORT.
4. UTILIZE APPROVED PA DEP EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL FROM LEAVING THE SITE. METHODS INCLUDE, BUT ARE NOT LIMITED TO WHEEL WASH, SILT FENCE, INLET FILTER PROTECTION, ROCK CONSTRUCTION ENTRANCE, ETC.

PWD STANDARD SEQUENCE OF CONSTRUCTION NOTES:

1. AT LEAST SEVEN (7) DAYS PRIOR TO ANY EARTH DISTURBANCE, THE INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) MUST BE CALLED TO SCHEDULE A PRECONSTRUCTION MEETING.
2. AT LEAST THREE (3) DAYS PRIOR TO RAIN GARDEN AND SUBSURFACE DETENTION BASIN INSTALLATION, THE INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) MUST BE CALLED TO SCHEDULE AN INSPECTION (FOR EACH SMP).
3. ALL STONE THAT MAKES UP THE (SUBSURFACE DETENTION BASIN) MUST REMAIN FREE OF SEDIMENT. IF SEDIMENT ENTERS THE STONE, THE CONTRACTOR MAY BE REQUIRED TO REMOVE THE SEDIMENT AND REPLACE IT WITH CLEAN-WASHED STONE.
4. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) FOR A FINAL INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
5. AS SOON AS SLOPES, CHANNELS, DITCHES, AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED. CESSATION OF ACTIVITY FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.
6. THE NPDES NOTICE OF TERMINATION (N.O.T.) MUST BE SUBMITTED TO PA DEP UPON COMPLETION OF CONSTRUCTION (WHEN APPLICABLE).
7. WATER PUMPED FROM WORK AREAS SHOULD BE TREATED FOR SEDIMENT REMOVAL PRIOR TO DISCHARGING TO A "SURFACE WATER" (WHEN APPLICABLE).

SEQUENCE OF CONSTRUCTION:

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE AND SHALL BE COMPLETED IN COMPLIANCE WITH PHILADELPHIA WATER DEPARTMENT AND CHAPTER 102 REGULATIONS.

AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LAND OWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, AND A REPRESENTATIVE FROM THE PHILADELPHIA WATER DEPARTMENT TO SCHEDULE A PRE-CONSTRUCTION MEETING. ALSO, AT LEAST 3 WORKING DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM, INC. AT 1-800-242-1776 FOR BURIED UTILITY LOCATIONS.

BEFORE IMPLEMENTING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE PHILADELPHIA WATER DEPARTMENT AND PA DEPT. OF ENVIRONMENTAL PROTECTION (PADEP).

THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 et seq. AND 287.1 et seq.

THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE PHILADELPHIA WATER DEPARTMENT AND PADEP AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL PROPOSED SOIL/ROCK SPOIL AND BORROW AREAS ON OR OFFSITE.

1. CONSTRUCTION WILL BEGIN UPON RECEIPT OF ALL REQUIRED PERMITS FROM CITY OF PHILADELPHIA AND PADEP.
2. PRIOR TO PROCEEDING WITH CONSTRUCTION, CONFIRM THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES. MAINTAIN AND PROTECT ALL EXISTING UTILITIES TO REMAIN AT ALL TIMES.
3. AS SOON AS SLOPES, CHANNELS, DITCHES, AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED. CESSATION OF ACTIVITY FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.
4. WATER PUMPED FROM WORK AREAS SHOULD BE TREATED FOR SEDIMENT REMOVAL PRIOR TO DISCHARGING TO A "SURFACE WATER".
5. DISTURBANCE OF THE PROJECT SITE MUST BE KEPT TO THE ABSOLUTE MINIMUM.
6. ALL SOIL MOVEMENT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE MUNICIPAL, STATE, AND FEDERAL REGULATIONS.
7. EXISTING PEDESTRIAN TRAFFIC SHALL BE MAINTAINED OR PROPERLY DIRECTED AROUND THE SITE THROUGHOUT THE DURATION OF THE PROJECT.
8. DELINEATE LIMITS OF DISTURBANCE AS OUTLINED ON THE APPROVED EROSION AND SEDIMENTATION CONTROL PLANS WITH ORANGE CONSTRUCTION FENCING. LINEAR UTILITY TRENCHES, AS OUTLINED ON THE APPROVED EROSION AND SEDIMENTATION CONTROL PLANS, DO NOT NEED TO BE DELINEATED WITH FENCE. UTILITY TRENCHES SHALL BE BACKFILLED AT THE END OF EACH DAY AND TEMPORARILY STABILIZED. CONTRACTOR SHALL NOT PERFORM ANY OTHER WORK OUTSIDE OF THE APPROVED LIMITS OF DISTURBANCE.
9. INSTALL INLET PROTECTION.
10. INSTALL ROCK CONSTRUCTION ENTRANCE AT THE SITE ENTRANCE AS SHOWN ON THE APPROVED PLAN. EXISTING SUBGRADE TO BE REMOVED WITHIN THE FOOTPRINT OF THE ROCK CONSTRUCTION ENTRANCE FOR CONSTRUCTION PER THE APPROVED DETAIL. CONTRACTOR SHALL EXCAVATE ONLY ENOUGH AREA FOR WHICH ROCK CONSTRUCTION ENTRANCE CAN BE INSTALLED BY THE END OF EACH WORK DAY. CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE THROUGH THE ENTRANCE. ROCK CONSTRUCTION ENTRANCE TO BE RESTORED AND SEDIMENT IS TO BE REMOVED ON A DAILY BASIS.
11. INSTALL COMPOST FILTER SOCK DOWN GRADE AND ON CONTOUR OF DISTURBED AREAS PER THE APPROVED PLAN. DISTURBED AREAS SHALL BE IMMEDIATELY STABILIZED AND GRADED TO SLOPE TOWARDS THE SITE AND COMPOST FILTER SOCK.
12. STAKE OUT AND INSTALL ORANGE CONSTRUCTION FENCE AROUND THE LIMITS OF ANY PROPOSED, OR EXISTING TO BE PROTECTED, INFILTRATION AREA (TREE TRENCHES AND RAIN GARDENS). CONTRACTOR TO MINIMIZE THE COMPACTION OF SOIL WITHIN THE INFILTRATION AREA.HEAVY MACHINERY IS PROHIBITED TO ENTER WITHIN THE LIMITS OF THE PROPOSED INFILTRATION AREA.
13. THE STAGING AREA SHALL BE ESTABLISHED ON THE SITE AND SHALL NOT IMPEDE RUNOFF FROM REACHING THE EXISTING INLETS. STAGING AREAS NOT CREATED ON EXISTING PAVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED DETAIL.
14. CONCRETE WASHOUT TO BE INSTALLED ADJACENT TO THE ROCK CONSTRUCTION ENTRANCE PER THE APPROVED PLANS.
15. CONTRACTOR SHALL TEMPORARILY STABILIZE THE SITE AT THE END OF EACH WORK DAY (WHENEVER POSSIBLE) AND AT THE START OF A RAINFALL EVENT. CESSATION OF EARTH DISTURBANCE ACTIVITIES FOR AT LEAST 4 DAYS REQUIRES TEMPORARY STABILIZATION.
16. CONTRACTOR TO HAVE PUMPED WATER FILTER BAG ONSITE AND AVAILABLE FOR DEWATERING OF EXCAVATED AREAS WHEN REQUIRED. FILTER BAG TO DISCHARGE OVER UNDISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE APPROVED PLANS.
17. CONTRACTOR TO BEGIN DEMOLITION OF THE REMAINING EXISTING SITE FEATURES. REMOVE VEGETATION AND CONSTRUCTION OF THE FILL. DISTURBED AREAS SHALL BE STABILIZED WHENEVER POSSIBLE AND AS REQUIRED.
18. PRIOR TO SMP INSTALLATION, THE INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) MUST BE CALLED TO SCHEDULE AN INSPECTION.
19. ***INSTALL SUBSURFACE BASIN (SEE SUBSURFACE BASIN SEQUENCE OF CONSTRUCTION) AND OUTLET CONTROL STRUCTURE.**
20. ***INSTALL MEDIA FILTER WATER QUALITY DEVICE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.**
21. FOLLOWING THE CONSTRUCTION OF THE SMP , THE SITE IMPROVEMENTS INCLUDING THE SYNTHETIC TURF FIELD, CONCRETE PATHWAYS, PLAYGROUND SURFACING AND LANDSCAPING SHALL BE CONSTRUCTED. ENSURING ALL SMPS AND E&S BMPS ARE PROTECTED AND MAINTAINTED THROUGHOUT THE CONSTRUCTION PROCESS.
22. REMOVE ROCK CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT WHEN CONCRETE WORK IS COMPLETE AND CONSTRUCTION EQUIPMENT NO LONGER NEEDS ACCESS.
23. ONCE THE SITE AREA HAS ACHIEVED A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION, REMOVE TEMPORARY EROSION AND SEDIMENTATION BMP'S INCLUDING ROCK CONSTRUCTION ENTRANCES AND INLET PROTECTION. ANY AREA DISTURBED DURING THE REMOVAL OF A TEMPORARY BMP SHALL BE IMMEDIATELY STABILIZED WITH SEEDING AND STRAW MULCH.
24. ENSURE THAT ALL POST-CONSTRUCTION STORMWATER MANAGEMENT BMP'S ARE IN PLACE AND FUNCTIONING ACCORDING TO THE APPROVED PCSM PLANS, DETAILS, AND NARRATIVE. CONTACT THE PHILADELPHIA WATER DEPARTMENT FOR A FINAL INSPECTION AND SUBMIT RECORD DRAWINGS TO COMPLETE THE PROJECT.
25. REMOVAL AND DISPOSAL OF BITUMINOUS MATERIAL SHALL BE IN COMPLETED IN ACCORDANCE WITH DETAILS AND REGULATIONS OF THE MUNICIPALITY, PADEP, AND PENNDOT, AS APPLICABLE AND IS SUBJECT TO INSPECTION AND APPROVAL AS APPROPRIATE.
26. CONTRACTOR TO COLLECT AND REMOVE ALL TRASH/DEBRIS ON SITE.

***CRITICAL STAGE - DURING THE BMP INSTALLATION, A LICENSED PROFESSIONAL ENGINEER, REGISTERED ARCHITECT/LANDSCAPE ARCHITECT, PROFESSIONAL LAND SURVEYOR, GEOLOGIST, OR LICENSED CONTRACTOR MUST DOCUMENT THE INFORMATION AND MEASUREMENTS REQUIRED ON THE BMP CONSTRUCTION CERTIFICATION FORMS WITHIN THE CERTIFICATION PACKAGE.**

SEQUENCE OF CONSTRUCTION: SUBSURFACE BASIN

1. AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION OF THE DETENTION BASIN, THE CONTRACTOR SHALL CONTACT PWD INSPECTIONS COORDINATOR (OFFICE 215-685-6387).
2. CONTRACTOR TO NOTIFY DESIGN ENGINEER 3 DAYS PRIOR TO CONSTRUCTION OF BASIN.
3. EXCAVATE FOOTPRINT TO SPECIFIED ELEVATION.
4. INSTALL STORMWATER BASIN, INCLUDING LOW FLOW DEVICE, AS SPECIFIED BY MANUFACTURER IN THE AREA SPECIFIED ON PLANS.
5. INSTALL MEDIA FILTER WATER QUALITY DEVICE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
6. CONNECT PIPES TO STORMWATER BASIN IN LOCATIONS SPECIFIED ON PLANS.
7. BACKFILL TO GRADE.

SEQUENCE OF CONSTRUCTION: MEDIA FILTER

1. AT LEAST 3 DAYS PRIOR TO THE INSTALLATION OF THE MEDIA FILTER, THE CONTRACTOR SHALL CONTACT PWD INSPECTIONS COORDINATOR (OFFICE 215-685-6387).
2. CONTRACTOR TO NOTIFY DESIGN ENGINEER 3 DAYS PRIOR TO INSTALLATION OF MEDIA FILTER.
3. EXCAVATE FOOTPRINT TO SPECIFIED ELEVATION.
4. INSTALL MEDIA FILTER WATER QUALITY DEVICE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
5. CONNECT PIPES TO MEDIA FILTER WATER QUALITY DEVICE IN LOCATIONS SPECIFIED ON PLANS.
6. BACKFILL TO GRADE.

EROSION AND SEDIMENTATION CONTROL NOTES:

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED, IF NECESSARY, AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 20 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THIS SITE.
11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS. 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.
14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOTS. VEHICLES AND EQUIPMENT MAY ONLY ENTER AND EXIT THE CONSTRUCTION SITE VIA A STABILIZED ROCK CONSTRUCTION ENTRANCES ON HAINES STREET.
15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. THE OPERATOR WILL MAINTAIN AND MAKE AVAILABLE TO NORTHAMPTON COUNTY CONSERVATION DISTRICT COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
16. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.
19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS, UNLESS DIRECTED OTHERWISE BY ENGINEER.
22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
26. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
27. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR OTHER PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR MOTHER MOVEMENTS.
29. EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
32. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
33. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO $10,000 PER DAY IN CIVIL PENALTIES, UP TO $10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO $25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

ADDITIONAL EROSION AND SEDIMENTATION CONTROL NOTES:

1. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
2. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
3. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
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.
5. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN

EROSION AND SEDIMENTATION MAINTENANCE:

1. DURING THE LIFE OF THE PROJECT, ALL EROSION AND SEDIMENTATION CONTROL DEVICES MUST BE PROPERLY MAINTAINED. MAINTENANCE SHALL INCLUDE THE INSPECTION OF EROSION CONTROL FACILITIES AFTER EACH MEASURABLE RUNOFF EVENT (>0.25 INCH) AND ON A WEEKLY BASIS, UNLESS MORE FREQUENT INSPECTION IS REQUIRED. IMMEDIATELY PERFORM CLEANOUT, REPAIR AND REPLACEMENT OF THE FACILITIES AS NEEDED. (REGRADE, RESEED AND MULCH WASHED OUT AREAS AS NEEDED.)
2. UNTIL THE SITE IS STABILIZED ALL EROSION AND SEDIMENTATION BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL SITE INSPECTIONS WILL BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE. THE COMPLIANCE ACTIONS AND THE DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG WILL BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO PWD/DEP UPON REQUEST.
3. WHERE BMP'S ARE FOUND TO FAIL TO ALLEVIATE EROSION OR SEDIMENT POLLUTION THE PERMITTEE OR CO-PERMITTEE NOTIFY THE PHILADELPHIA WATER DEPARTMENT OF THE FAILURE AND SHALL INCLUDE THE FOLLOWING INFORMATION:
   - 3.1. THE LOCATION AND SEVERITY OF THE BMP'S FAILURE AND ANY POLLUTION EVENTS.
   - 3.2. ALL STEPS TAKEN TO, REDUCE, ELIMINATE AND PREVENT THE RECURRENCE OF THE NON-COMPLIANCE.
   - 3.3. THE TIME FRAME TO CORRECT THE NONCOMPLIANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY WILL RETURN TO COMPLIANCE.
4. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENTATION BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S OR MODIFICATIONS OF THOSE INSTALLED WILL BE NEEDED.
5. SEEDED AREAS THAT HAVE WASHED AWAY SHALL BE FILLED AND GRADED, AS NECESSARY, AND THEN RESEEDED. A STRAW COVER SHALL BE APPLIED TO RETAIN THE SEED ALONG WITH AN ANCHORING METHOD DESCRIBED ON THE ATTACHED MULCH ANCHORING GUIDE, UNTIL IT HAS A CHANCE TO ROOT PROPERLY.
6. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
7. SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.
8. INLET FILTER BAGS SHALL BE CLEANED OUT OR REPLACED WHEN BAG IS HALF FULL.
9. SEDIMENT SHALL BE REMOVED FROM COMPOST FILTER SOCKS WHEN REACHING ONE HALF THE HEIGHT OF THE SOCK, IF USED.
10. THE CONTRACTOR SHALL INSPECT ALL ROCK CONSTRUCTION ENTRANCES ON A DAILY BASIS AND SHALL ENSURE THAT SEDIMENT IS NOT BEING TRACKED ONTO PUBLIC STREETS. SEDIMENT THAT IS TRACKED ONTO PUBLIC STREETS SHALL BE COLLECTED AND RETURNED TO THE SITE OR OTHERWISE PROPERLY REMOVED BY A STREET SWEEPER.
11. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS, IF USED.
12. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 6 INCH LAYERED LIFTS AT 95% DENSITY.
13. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMP'S MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMP'S MUST BE STABILIZED IMMEDIATELY.
14. BEFORE INITIATING ANY REVISION TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY EFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE PA DEP. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
15. ALL PUMPING OF SEDIMENT LADEN WATER OR POTENTIALLY SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, AND FILTRATION SYSTEM, SUCH AS A TIGG FILTRATION SYSTEM - CANSORB CP-2000 AND DISCHARGED OVER NON-DISTURBED AREAS.
16. DEWATERING OR PUMPING OF GROUNDWATER MUST DISCHARGE TO CITY OWNED INFRASTRUCTURE, IF REQUIRED, CONTRACTOR SHALL OBTAIN AN INDUSTRIAL DISCHARGE PERMIT THROUGH THE INDUSTRIAL WASTE UNIT. DISCHARGE MUST BE CONNECTED DIRECTLY TO A COMBINED OR SANITARY SEWER LATERAL.
17. PWD SHALL NOT BE RESPONSIBLE FOR ANY CLEANUP OR REPAIRS NEEDED ON CITY-OWNED INFRASTRUCTURE OR REPAIRS DUE TO FAILURE OF APPROVED EROSION CONTROL MEASURES OF CITY OWNED INFRASTRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CLEANUP AND REPAIRS DUE TO FAILURE OF APPROVED EROSION CONTROL MEASURES.
18. IF CONTAMINATED SOILS ARE ENCOUNTERED DURING CONSTRUCTION, CONTACT OWNER.

RECYCLING AND DISPOSAL NOTE:

THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 et seq. AND 287.1 et seq.

CONSTRUCTION WASTES INCLUDE, BUT NOT LIMITED TO:
- INLET PROTECTION
- PUMPED WATER FILTER BAGS

TEMPORARY SEEDING SITE PREPARATION :

TEMPORARY STABILIZATION OF ALL EXPOSED EARTH SURFACES WHERE CONSTRUCTION ACTIVITY HAS CEASE, INCLUDING TOPSOIL STOCKPILES SHALL BE STABILIZED IMMEDIATELY BY THE FOLLOWING METHODS AND MATERIALS.

1. APPLY ONE (1) TON OF AGRICULTURAL GRADE LIMESTONE PER ACRE PLUS FERTILIZER (10-10-10) AT THE RATE OF 1000 LBS PER ACRE AND WORK INTO SOIL WHEREVER POSSIBLE.
2. APPLY 100% ANNUAL RYEGRASS SEED AT A RATE OF 4 TO 5 LBS PER 1000 SQUARE FEET.
3. AFTER SEEDING MULCH WITH HAY OR STRAW AT A RATE OF THREE (3) TONS PER ACRE.

PERMANENT SEEDING SITE PREPARATION:

PERMANENT STABILIZATION OF THE ALL EXPOSED EARTH SURFACES AFTER THE COMPLETION OF THE SITE GRADING AND IMPROVEMENTS SHALL BE ACCOMPLISHED BY THE FOLLOWING METHODS AND MATERIALS:

1. AFTER INSTALLATION OF THE NEEDED SURFACE WATER CONTROL MEASURES, PERFORM ALL CULTURAL OPERATIONS AT RIGHT ANGLES TO THE SLOPE.
2. OBTAIN SOILS TESTING FROM AN INDEPENDENT LABORATORY TO DETERMINE NECESSARY SOILS MODIFICATIONS.
3. IN THE ABSENCE OF SOILS TESTING, APPLY AGRICULTURAL GRADE LIMESTONE AT THE MINIMUM RATE OF SIX TONS LIMESTONE PER ACRE (276 LBS. PER 1,000 SQUARE FEET).
4. IN THE ABSENCE OF SOILS TESTING, WORK IN FERTILIZER AT THE RATE OF 1000 LBS. OF 10-20-20 OR EQUIVALENT PER ACRE.
5. SMOOTH AND FIRM SEEDED AREAS WITH CULTIPACKER, OR OTHER SIMILAR EQUIPMENT, PRIOR TO SEEDING.
6. APPLY SEED.
7. COVER GRASS SEEDS WITH 1/4 INCH OF TOPSOIL WITH SUITABLE EQUIPMENT.
8. APPLY STRAW MULCH AT A RATE OF 3.0 TON PER ACRE IMMEDIATELY AFTER SEEDING.
9. USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER IN ORDER TO PREVENT GULLYING. USE SOD AT THE DIRECTION OF THE MUNICIPAL ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
10. HYDROSEEDING SHALL BE AN ACCEPTABLE ALTERNATIVE TO THE ABOVE SEEDING WHEN PERFORMED IN ACCORDANCE WITH PENNDOT PUB. 408 SECTIONS 804 AND 805 AND APPROVED BY THE SITE ENGINEER.

PERMANENT SEEDING NOTES:

1. SPREAD AND FINE GRADE 12" TOPSOIL ON ALL AREAS TO BE PERMANENTLY SEEDED.
2. BEFORE SEEDING, APPLY APPROPRIATE SOIL MODIFICATIONS.
3. INSTALL EROSION/SEED BLANKET WHERE NEEDED.
4. WATER AND MAINTAIN ALL LAWN AREAS.
5. RESEED BARE OR THIN AREAS AS DIRECTED BY THE ENGINEER.
6. IF GROUND COVER IS NOT OTHERWISE SPECIFIED ON THE APPROVED LANDSCAPING PLANS, USE SEED MIXTURE 2, AS SHOWN IN TABLE 11.4.
7. APPLY STRAW MULCH AT 3.0 TON/ACRE IMMEDIATELY AFTER SEEDING.
8. APPLY STRAW AND MULCH DURING NON-GROWING SEASONS (NOVEMBER - MARCH)

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UNFORSEEN EROSIVE CONDITIONS NOTES:

1. SHOULD UNFORESEEN EROSIVE CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDIMENT DISPLACEMENT. STOCKPILES OF WOOD CHIPS, HAY BALES, CRUSHED STONE AND OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION.
2. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, D.E.P., SUB-PART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
3. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT EXISTING TREES AND SHRUBS WHICH ARE TO REMAIN IN PLACE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES, INCLUDING REPLACING TREES OR SHRUBS IN KIND IF NECESSARY.
4. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING REGULARLY TRACKED ONTO PUBLIC STREETS, THE CONTRACTOR SHALL BE PREPARED, UPON WRITTEN NOTICE GIVEN BY THE CITY OF PHILADELPHIA, TO PROVIDE TIRE WASHING FACILITIES AT ALL ROCK CONSTRUCTION ENTRANCES.

CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE:

STANDARD NOTE TO COMPLY WITH NPDES CHECKLIST ITEM #2.B.XV (#3.B.XV FOR AN INDIVIDUAL NPDES PERMIT)

IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM THE SITE, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND DETERMINATION OF CLEAN FILL WILL REST WITH THE CONTRACTOR.

> CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE).
> CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL".
> ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL. A COPY OF FORM FP-001 CAN BE FOUND AT THE END OF THESE INSTRUCTIONS.
> ENVIRONMENTAL DUE DILIGENCE: THE APPLICANT MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL".

FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THESE REGULATIONS ARE AVAILABLE ON-LINE AT WWW.PACODE.COM <HTTP://WWW.PACODE.COM>.

CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE NOTES:

WITH THE EXCEPTION OF SITES ENROLLED IN DEP'S LAND RECYCLING AND ENVIRONMENTAL REMEDIATION STANDARDS (ACT 2) PROGRAM, ALL FILL MATERIAL EXCAVATED AND USED ON-SITE, IMPORTED TO THE SITE, AND EXPORTED FROM THE SITE, MUST MEET THE DEFINITION OF CLEAN FILL, AS DEFINED IN THIS PERMIT. REGULATED FILL MAY ONLY BE USED ON ACT 2 SITES, IN ACCORDANCE WITH STANDARDS ESTABLISHED BY THAT PROGRAM.

THE PERMITTEE SHALL CONDUCT ENVIRONMENTAL DUE DILIGENCE TO VERIFY THAT FILL EXCAVATED ON-SITE THAT IS USED TO ESTABLISH FINAL GRADE, FILL IMPORTED TO THE PROJECT SITE, AND FILL EXPORTED FROM THE PROJECT SITE IS CONSIDERED CLEAN FILL. IF DUE DILIGENCE RESULTS IN EVIDENCE OF A RELEASE, AS DEFINED IN DEP'S MANAGEMENT OF FILL POLICY (285-2182-773), THAT HAS AFFECTED THE FILL MATERIAL, THE PERMITTEE SHALL TEST THE MATERIAL TO DETERMINE WHETHER THE MATERIAL QUALIFIES AS CLEAN FILL, AND FORM FP-001 (CERTIFICATION OF CLEAN FILL) MUST BE COMPLETED, RETAINED BY THE PERMITTEE OR THE PROPERTY OWNER ON-SITE, AND BE MADE AVAILABLE TO DEP/PWD UPON REQUEST.

IN THE EVENT THAT FILL EXCAVATED ON-SITE THAT IS USED TO ESTABLISH FINAL GRADE, FILL IMPORTED TO THE PROJECT SITE, OR FILL EXPORTED FROM THE PROJECT SITE IS FOUND TO BE REGULATED FILL DURING THE TERM OF PERMIT COVERAGE, WHERE THE UTILIZATION OF THE REGULATED FILL WILL REQUIRE A PERMIT FROM DEP'S WASTE MANAGEMENT PROGRAM, EARTH DISTURBANCE ACTIVITIES SHALL CEASE UNTIL SUCH TIME THAT THE PERMITTEE OBTAINS ALL NECESSARY PERMITS OR APPROVALS FROM DEP, INCLUDING NEW NPDES PERMIT COVERAGE.

IF THE PERMITTEE BECOMES AWARE DURING EARTH DISTURBANCE ACTIVITIES THAT SOILS IN THE AREA OF EARTH DISTURBANCE CONTAIN CONCENTRATIONS OF REGULATED SUBSTANCES EXCEEDING THE RESIDENTIAL MEDIUM-SPECIFIC CONCENTRATIONS FOR SOIL IN 25 PA. CODE CHAPTER 250, THE PERMITTEE SHALL NOTIFY DEP IN ACCORDANCE WITH PART A III.D OF THIS PERMIT AND CEASE EARTH DISTURBANCE ACTIVITIES IN AREAS OF KNOWN SOIL CONTAMINATION UNTIL AUTHORIZED TO RESUME BY DEP/PWD.

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23
NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
2	02/14/23	PWD PCSM RESUBMISSION
3	05/24/23	PWD PCSM RESUBMISSION

REVIEWED BY:

PROJECT COORDINATOR

SEALS

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1420 Walnut Street, 15th Floor
Philadelphia, PA 19102
www.kmarchitects.com

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Salt Design Studio
4100 Main Street Suite 200
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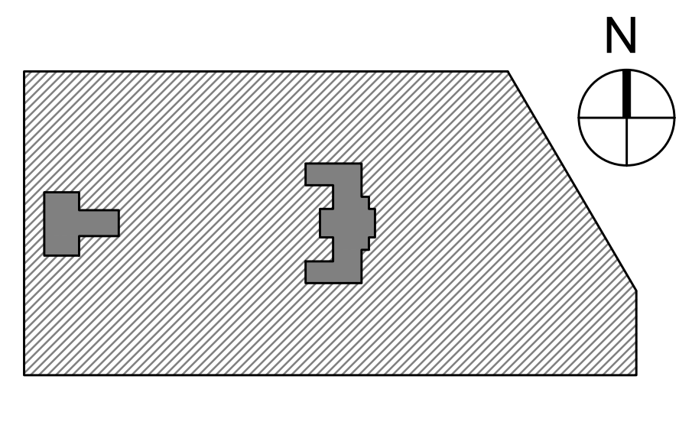
Pennoni Associates
1900 Market Street Suite 300
Philadelphia PA 19103
www.pennoni.com

LEED CONSULTANT:
Verde Architecture Consulting
1635 Market Street Suite 1600
Philadelphia PA 19103

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

PROJECT TITLE
KINGSESSING RECREATION CENTER

KEY PLAN

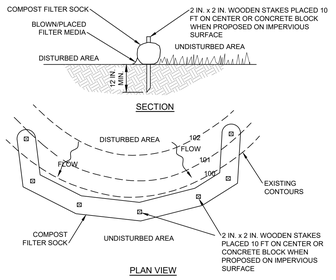


DRAWING TITLE
EROSION & SEDIMENTATION CONTROL NOTES

PROJECT NO.	KLMLX21003
DATE	08/28/23
SCALE	
DRAWN BY:	SDL
CHECKED BY:	MJM
DRAWING NO.	C-851-R.2

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

\\pennoni.com\data\Accounts\KLMLX\klmlx21003 - kingsessing building & site improvements\DESIGN_SHEETS\C-851-R.dwg PLOTTED: 8/25/2023 10:44 AM. BY: David King PLOTSTYLE: Pennoni NCS.stb PROJECT STATUS: ---



NOTES:

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

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

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

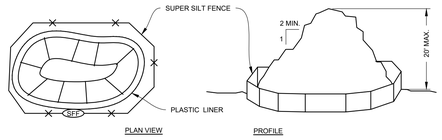
ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

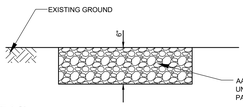
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

DETAIL- COMPOST FILTER SOCK
N.T.S.

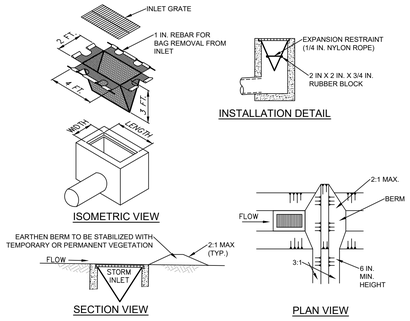


NOTES:
1. SILT FENCE SHALL BE PLACED AROUND THE PERIMETER OF ALL STOCKPILES.
2. IMMEDIATELY APPLY TEMPORARY SEEDING TO ALL STOCKPILES WHICH WILL REMAIN IN PLACE 20 DAYS OR MORE. TEMPORARY SEEDING SHALL BE PER PENNDOT FORM 408, SECTION 804(B)
3. PLASTIC LINER TO BE INSTALLED BELOW TEMPORARY TOPSOIL STOCKPILES FOR SOILS FOUND OR SUSPECTED TO BE CONTAMINATED.

DETAIL- TEMPORARY TOPSOIL STOCKPILE
N.T.S.



DETAIL- STAGING AREA
N.T.S.



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.

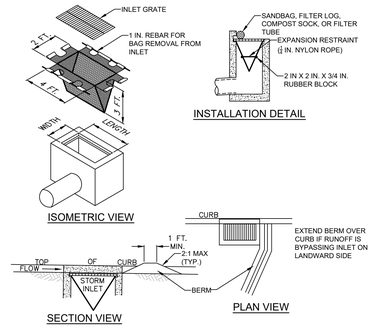
ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

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.

DETAIL- FILTER BAG INLET PROTECTION - TYPE M INLET
N.T.S.



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

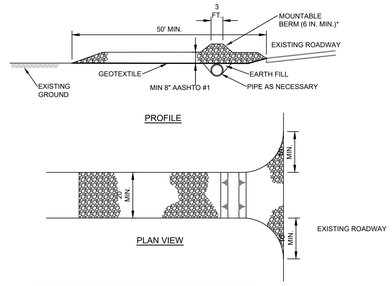
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
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 OF 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.

DETAIL- FILTER BAG INLET PROTECTIO - TYPE C INLET
N.T.S.



* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

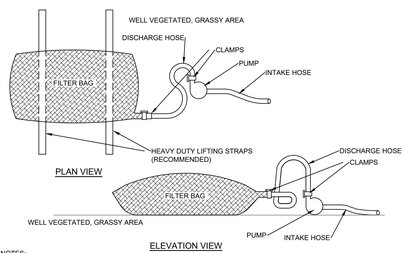
RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

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.

GEOTEXTILE FOR ROCK CONSTRUCTION ENTRANCE TO MEET THE REQUIREMENTS OF PENNDOT PUBLICATION 408, SECTION 735, CLASS 4, TYPE A GEOTEXTILE.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

DETAIL- ROCK CONSTRUCTION ENTRANCE
N.T.S.



NOTES:

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

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.

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.

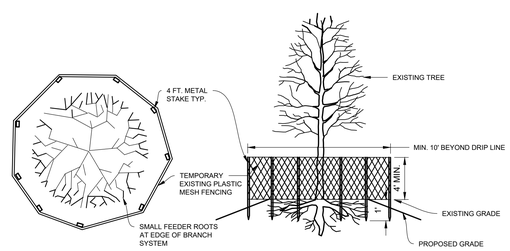
NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

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.

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.

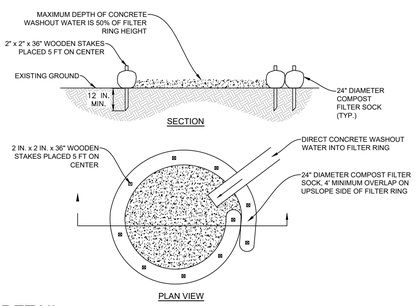
FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

DETAIL- PUMPED WATER FILTER BAG
N.T.S.



NOTES:
1. THOSE TREES WHICH ARE WITHIN TWENTY-FIVE (25) FEET OF ANY PROPOSED EXCAVATION OR GRADING OPERATION, OR IN ANY OTHER LOCATION DEEMED APPROPRIATE BY THE ENGINEER, SHALL BE PROTECTED BY INSTALLING AND MAINTAINING A FENCE AT THE DRIP LINE.
2. NO BOARDS OR OTHER MATERIAL SHALL BE NAILED TO TREES DURING CONSTRUCTION.
3. HEAVY EQUIPMENT OPERATORS SHALL AVOID DAMAGING EXISTING TREE TRUNKS FEET FROM TREE TRUNKS.
4. TREE TRUNKS AND EXPOSED ROOTS DAMAGED DURING CONSTRUCTION SHALL BE PROTECTED FROM FURTHER DAMAGE BY BEING TREATED IMMEDIATELY.
5. TREE LIMBS DAMAGED DURING CONSTRUCTION SHALL BE PROPERLY PRUNED AND TREATED IMMEDIATELY
6. THE OPERATION OF HEAVY EQUIPMENT OVER ROOT SYSTEMS OF SUCH TREES SHALL BE MINIMIZED IN ORDER TO PREVENT SOIL COMPACTION.
7. DAMAGED TREES SHALL BE FERTILIZED TO AID IN THEIR RECOVERY.
8. CONSTRUCTION DEBRIS SHALL NOT BE DISPOSED OF NEAR OR AROUND TREES.

DETAIL- TREE PROTECTION FENCE
N.T.S.



NOTES:

A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.

INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.

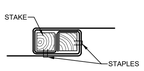
COMPOST SOCKS SHALL BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND THE PERIMETER OF THE GEOMEMBRANE SO AS TO FORM A RING WITH THE ENDS OF THE DOCK LOCATED AT THE UPSLOPE CORNER.

CARE SHALL BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS.

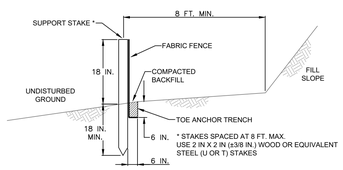
18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER FILTER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.

MAINTENANCE: ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. ACCUMULATED MATERIALS SHALL BE REMOVED WHEN THEY REACH 50% CAPACITY. GEOMEMBRANE SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

DETAIL- CONCRETE WASHOUT
N.T.S.



JOINING FENCE SECTIONS



SECTION VIEW

NOTES:

FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PA DEP EROSION CONTROL MANUAL.

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

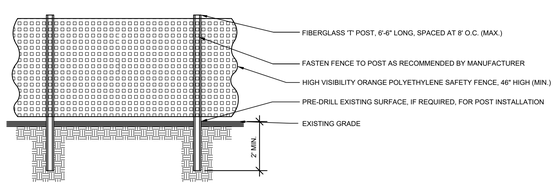
SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE.

ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET (STANDARD CONSTRUCTION DETAIL # 4-6).

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

DETAIL- SILT FENCE
N.T.S.



DETAIL- CONSTRUCTION FENCE
N.T.S.

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08/28/23
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REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
2	02/14/23	PWD PCSM RESUBMISSION
3	05/24/23	PWD PCSM RESUBMISSION

REVIEWED BY:

PROJECT COORDINATOR

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Philadelphia, PA 19102
www.kmarchitects.com

LANDSCAPE ARCHITECT:
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4100 Main Street Suite 200
Philadelphia PA 19127
www.saltdesignstudio.com

M.E.P./F.P./SITE CIVIL ENGINEERS:
Pennoni Associates
1900 Market Street Suite 300
Philadelphia PA 19103
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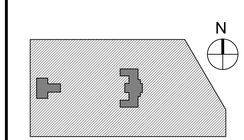
LEED CONSULTANT:
Verde Architecture Consulting
1635 Market Street Suite 1600
Philadelphia PA 19103

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

PROJECT TITLE
KINGSESSING RECREATION CENTER

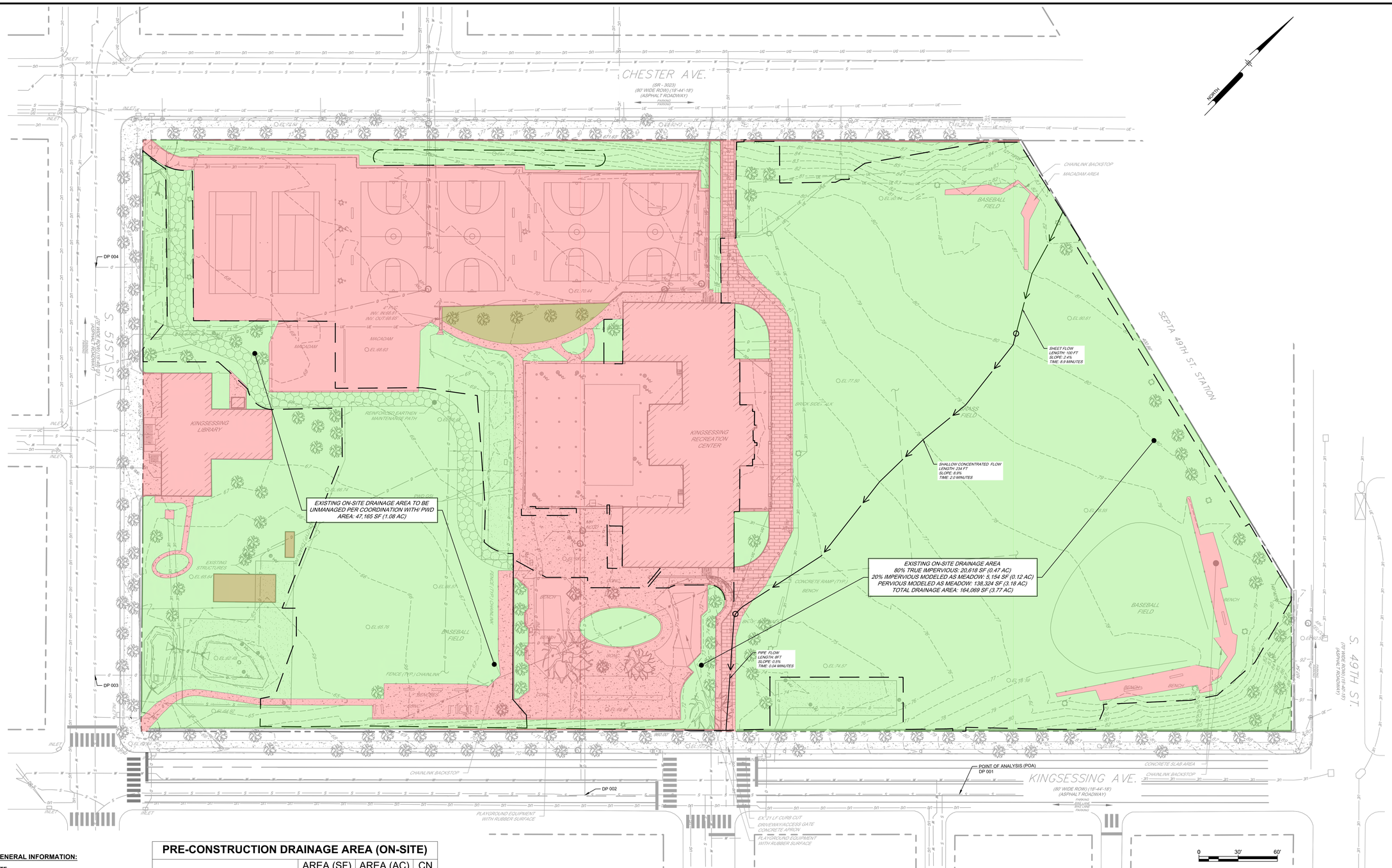
KEY PLAN



DRAWING TITLE
EROSION & SEDIMENTATION CONTROL DETAILS

PROJECT NO. KLMLX21003
DATE 08/28/23
SCALE
DRAWN BY: SDL
CHECKED BY: MJM
DRAWING NO. C-852-R.2

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



PRE-CONSTRUCTION DRAINAGE AREA (ON-SITE)

	AREA (SF)	AREA (AC)	CN
PRE-IMPERVIOUS (80% OF TRUE IMPERVIOUS)	20,618	0.47	98
PRE-MEADOW (20% OF TRUE IMPERVIOUS MODELED AS MEADOW)	5,154	0.12	58
GRASS (MODELED AS MEADOW)	138,324	3.18	58
TOTAL	**164,069**	**3.77**	

GENERAL INFORMATION:

SITE:

4901 KINGSESSING AVE
PHILADELPHIA, PA 19143
OPA#76324950

CLIENT:

CITY OF PHILADELPHIA
PARKS AND RECREATION
1515 ARCH STREET, 10TH FLOOR
PHILADELPHIA, PA 19102

ENGINEER:

PENNONI ASSOICATES
1900 MARKET STREET, SUITE 300
PHILADELPHIA, PA 19103

REFERENCES:

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A PLAN BY AMERICAN ENGINEERS GROUP, LLC ENTITLED "KINGSESSING RECREATION CENTER TOPOGRAPHIC SURVEY", SHEET NO. 1, DATED 03/12/2021.

EXISTING LEGEND

- EXISTING PROPERTY LINE (APPROXIMATE)
- EXISTING RIGHT OF WAY LINE (APPROXIMATE)
- EXISTING BUILDING
- EXISTING CURB
- EXISTING SIDEWALK
- EXISTING EDGE OF MACADAM/GRAVEL
- EXISTING TRAFFIC MARKING
- EXISTING FENCE
- EXISTING TREE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SIGN
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- EXISTING UTILITY POLE
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- EXISTING SEWER
- EXISTING STORM SEWER
- EXISTING WATER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD WIRES
- EXISTING UTILITY STRUCTURES
- EXISTING ON-SITE DRAINAGE AREA BOUNDARY
- EXISTING IMPERVIOUS AREA
- EXISTING PERVIOUS AREA

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PWD TRACKING #FY22-KING-6800-01

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
2	02/14/23	PWD PCSM RESUBMISSION
3	05/24/23	PWD PCSM RESUBMISSION

REVIEWED BY:

PROJECT COORDINATOR

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LEED CONSULTANT:
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Philadelphia PA 19103

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

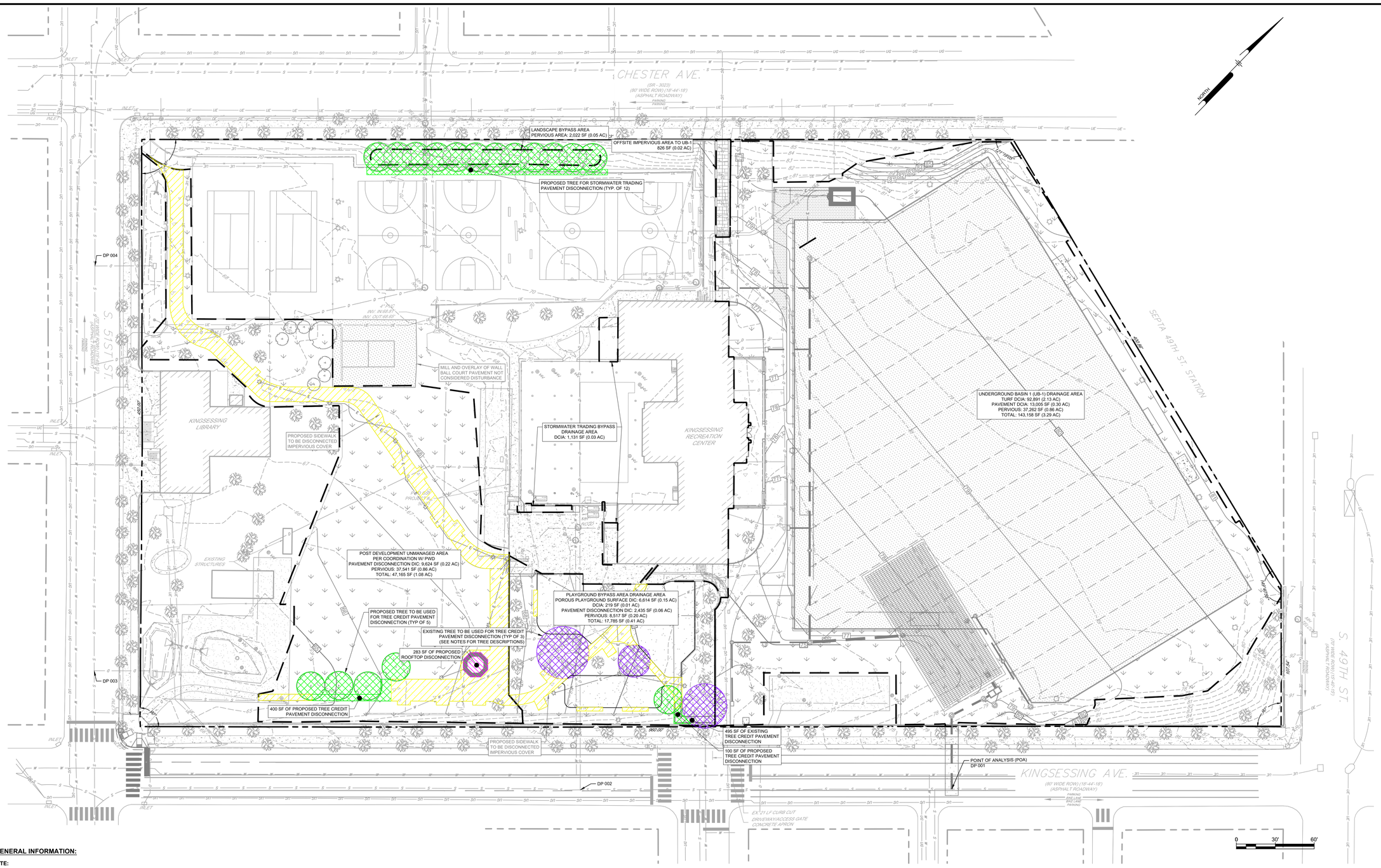
PROJECT TITLE
KINGSESSING RECREATION CENTER

KEY PLAN

DRAWING TITLE
PRE-CONSTRUCTION DRAINAGE AREA MAP

PROJECT NO: KLMLX21003	DRAWING NO: C-900-R.2
DATE: 08/28/23	
SCALE: 1" = 30'	
DRAWN BY: SDL	
CHECKED BY: MJM	

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



GENERAL INFORMATION:

SITE:

4901 KINGSESSING AVE
PHILADELPHIA, PA 19143
OPA#763249500

CLIENT:

CITY OF PHILADELPHIA
PARKS AND RECREATION
1515 ARCH STREET, 10TH FLOOR
PHILADELPHIA, PA 19102

ENGINEER:

PENNONI ASSOICATES
1900 MARKET STREET, SUITE 300
PHILADELPHIA, PA 19103

REFERENCES:

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A PLAN BY AMERICAN ENGINEERS GROUP, LLC ENTITLED "KINGSESSING RECREATION CENTER TOPOGRAPHIC SURVEY", SHEET NO. 1, DATED 03/12/2021.

PROPOSED DRAINAGE AREA - UB-1

	AREA (SF)	AREA (AC)	CN
PERVIOUS	37,262	0.86	61
SYNTHETIC TURF DCIA	92,891	2.13	98
DCIA	13,005	0.30	98
TOTAL	**143,158**	**3.29**	

PROPOSED DRAINAGE AREA - STORMWATER TRADING BYPASS

	AREA (SF)	AREA (AC)	CN
DCIA	1,131	0.03	98
TOTAL	1,131	0.03	

PROPOSED DRAINAGE AREA - PLAYGROUND BYPASS

	AREA (SF)	AREA (AC)	CN
PERVIOUS	8,517	0.20	61
POROUS PLAYGROUND SURFACE (DIC)	6,614	0.15	70
DCIA	219	0.01	98
PAVEMENT DIC	2,435	0.06	98
TOTAL	**17,785**	**0.41**	

PROPOSED DRAINAGE AREA - LANDSCAPE BYPASS

	AREA (SF)	AREA (AC)	CN
PERVIOUS	2,022	0.05	61
TOTAL	**2,022**	**0.05**	

EXISTING LEGEND

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- EXISTING TREE
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- EXISTING MINOR CONTOUR
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- EXISTING WATER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD WIRES
- EXISTING UTILITY STRUCTURES

PROPOSED LEGEND

- PROPOSED BUILDING
- PROPOSED DOOR
- PROPOSED CONCRETE PAVEMENT
- PROPOSED ASPHALT PAVEMENT
- PROPOSED LANDSCAPED AREA
- PROPOSED UNIT PAVERS
- PROPOSED POROUS PLAYGROUND SAFETY SURFACE (DIC)
- PROPOSED SYNTHETIC TURF FIELD
- PROPOSED ADA RAMP
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED WALL
- PROPOSED STOP BAR/PAVEMENT MARKING
- PROPOSED FENCE
- PROPOSED SIGN
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED STORM INLET
- PROPOSED STORM MANHOLE
- PROPOSED STORM CLEANOUT
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATER LINE
- PROPOSED FIRE LINE
- PROPOSED NATURAL GAS LINE
- PROPOSED CABLE/TELEPHONE LINE
- PROPOSED ELECTRIC LINE
- PROPOSED DRAINAGE AREA BOUNDARY TO PWD INFRASTRUCTURE
- EXISTING TREE DISCONNECTION
- PROPOSED TREE DISCONNECTION
- PAVEMENT DISCONNECTION
- ROOFTOP DISCONNECTION

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PROJECT COORDINATOR

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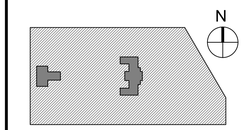
PROJECT TITLE
KINGSESSING RECREATION CENTER

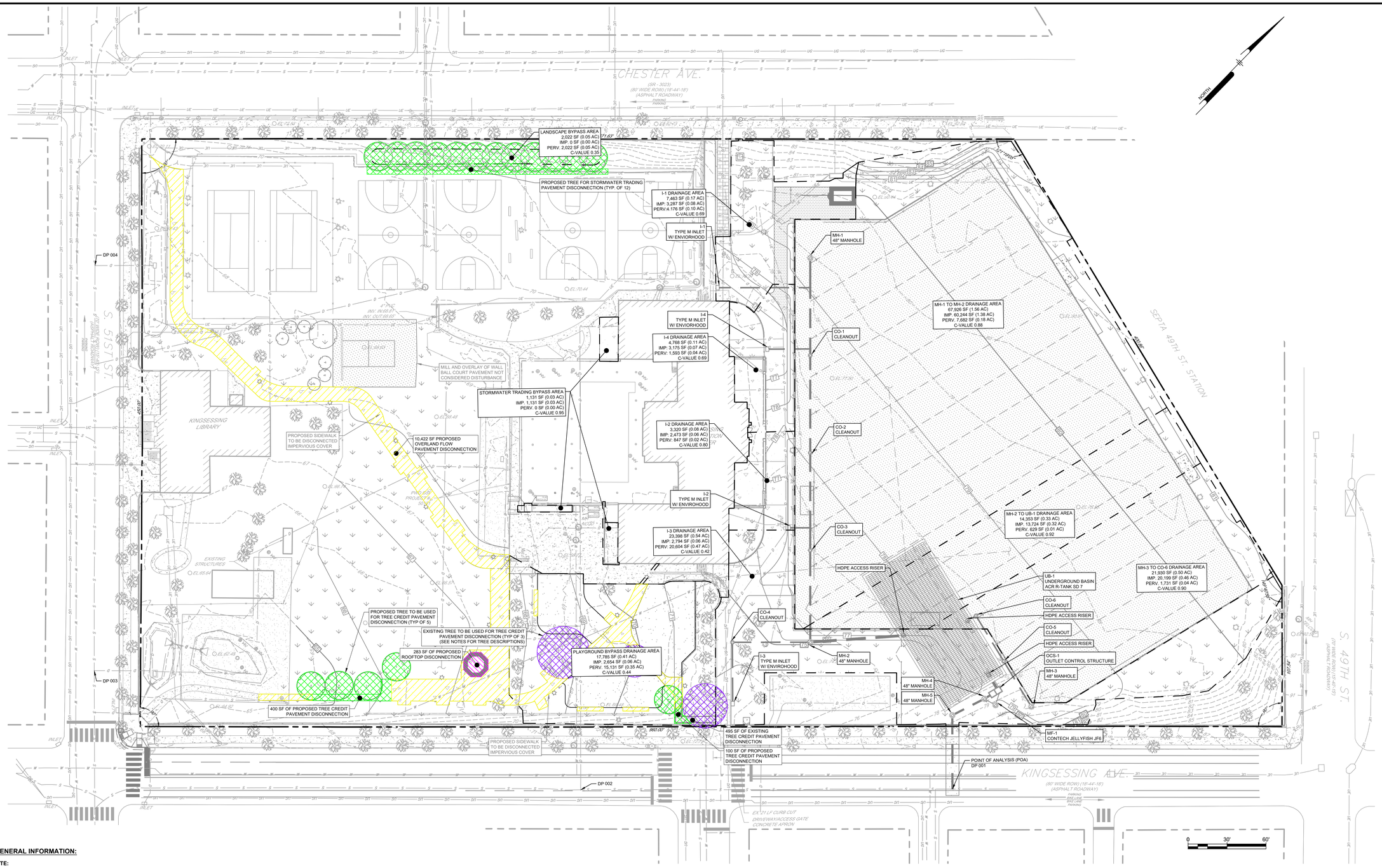
KEY PLAN



DRAWING TITLE
POST CONSTRUCTION
DRAINAGE AREA MAP

PROJECT NO. KLMLX21003	DRAWING NO. C-901-R.2
DATE 08/28/23	
SCALE 1" = 30'	
DRAWN BY: SDL	
CHECKED BY: MJM	

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



GENERAL INFORMATION:

SITE:

4901 KINGSESSING AVE
PHILADELPHIA, PA 19143
OPA#783249500

CLIENT:

CITY OF PHILADELPHIA
PARKS AND RECREATION
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PHILADELPHIA, PA 19102

ENGINEER:

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PHILADELPHIA, PA 19103

REFERENCES:

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A PLAN BY AMERICAN ENGINEERS GROUP, LLC ENTITLED "KINGSESSING RECREATION CENTER TOPOGRAPHIC SURVEY", SHEET NO. 1, DATED 03/12/2021.

INLET DRAINAGE AREA SUMMARY

DRAINAGE AREA	IMPERVIOUS AREA SF (AC.)	PERVIOUS AREA SF (AC.)	TOTAL AREA SF (AC.)	C VALUE
I-1	3,287 (0.08)	4,176 (0.10)	7,463 (0.17)	0.61
I-2	2,473 (0.06)	847 (0.02)	3,320 (0.08)	0.80
I-3	2,794 (0.06)	20,604 (0.47)	23,398 (0.54)	0.42
I-4	3,175 (0.07)	1,593 (0.04)	4,768 (0.11)	0.75
MH-1 TO MH-2	60,244 (1.38)	7,682 (0.18)	67,926 (1.56)	0.88
MH-2 TO UB-1	13,724 (0.32)	629 (0.01)	14,353 (0.33)	0.92
MH-3 TO CO-6	20,199 (0.46)	1,731(0.04)	21,930 (0.50)	0.90
PLAYGROUND BYPASS	2,654 (0.06)	15,131 (0.35)	17,785 (0.41)	0.44
STORMWATER TRADING BYPASS	1,131 (0.03)	0 (0.00)	1,131 (0.03)	0.95
LANDSCAPE BYPASS	0 (0.00)	2,022 (0.05)	2,022 (0.05)	0.35
TOTAL	109,681 (2.52)	54,415 (1.25)	164,096 (3.77)	

EXISTING LEGEND

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- *EXISTING BUILDING*
- *EXISTING CURB*
- *EXISTING SIDEWALK*
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- *EXISTING GAS LINE*
- *EXISTING UNDERGROUND ELECTRIC*
- *EXISTING OVERHEAD WIRES*
- *EXISTING UTILITY STRUCTURES*

PROPOSED LEGEND

- PROPOSED BUILDING
- PROPOSED DOOR
- PROPOSED CONCRETE PAVEMENT
- PROPOSED ASPHALT PAVEMENT
- PROPOSED LANDSCAPED AREA
- PROPOSED UNIT PAVERS
- PROPOSED POROUS PLAYGROUND SAFETY SURFACE (DIC)
- PROPOSED SYNTHETIC TURF FIELD
- PROPOSED ADA RAMP
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED WALL
- PROPOSED STOP BAR/PAVEMENT MARKING
- PROPOSED FENCE
- PROPOSED SIGN
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED STORM INLET
- PROPOSED STORM MANHOLE
- PROPOSED STORM CLEANOUT
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATER LINE
- PROPOSED FIRE LINE
- PROPOSED NATURAL GAS LINE
- PROPOSED CABLE/TELEPHONE LINE
- PROPOSED ELECTRIC LINE
- INLET DRAINAGE AREA BOUNDARY TO PWD INFRASTRUCTURE
- EXISTING TREE DISCONNECTION
- PROPOSED TREE DISCONNECTION
- PAVEMENT DISCONNECTION
- ROOFTOP DISCONNECTION

CALL BEFORE YOU DIG
BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA
CALL 1-800-242-1776
PA. ACT 287 OF 1974 REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL OR BLAST PENNSYLVANIA ONE-CALL SYSTEM, INC.
SERIAL NUMBER(S): 20212583952

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23
NPDES PERMIT #PAC510302
PWD TRACKING #FY22-KING-6800-01

REVISIONS

ISSUE	DATE	DESCRIPTION
1	01/09/23	PWD PCSM/NPDES SUBMISSION
2	02/14/23	PWD PCSM RESUBMISSION
3	05/24/23	PWD PCSM RESUBMISSION

REVIEWED BY:

PROJECT COORDINATOR

SEALS

KELLY MAIELLO ARCHITECTS
1420 Walnut Street, 15th Floor
Philadelphia, PA 19102
www.kmarchitects.com

LANDSCAPE ARCHITECT:
Salt Design Studio
4100 Main Street Suite 200
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M.E.P./F.P./SITE CIVIL ENGINEERS:
Pennoni Associates
1900 Market Street Suite 300
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www.pennoni.com

LEED CONSULTANT:
Verde Architecture Consulting
1635 Market Street Suite 1600
Philadelphia PA 19103

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

PROJECT TITLE
KINGSESSING RECREATION CENTER

KEY PLAN

DRAWING TITLE
INLET
DRAINAGE AREA MAP

PROJECT NO. KLMLX21003	DRAWING NO. C-902-R.2
DATE 08/28/23	
SCALE 1" = 30'	
DRAWN BY: SDL	
CHECKED BY: MJM	

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