

Attachment D-
Contract Drawings

DRAWING LIST

	COVER AND LOCATION PLAN
G-000	DRAWING LIST AND GENERAL NOTES
G-100	EXISTING CONDITIONS PLAN
L-100	TREE PROTECTION AND DEMO PLAN
L-101	OVERALL SITE PLAN
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L-103	LAYOUT PLANS
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L-105	DETAIL LAYOUT PLANS
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L-201	SITE DETAILS
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L-300	PLANTING PLAN & DETAILS
C-100	GRADING AND UTILITY PLAN
C-200	EROSION CONTROL PLAN
C-250	E&S CONTROL DETAILS
C-251	E&S CONTROL NOTES
C-500	UTILITY DETAILS
E-000	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
E-100	ELECTRICAL SITE PLAN
E-200	DETAILS
E-300	SCHEDULES

ABBREVIATIONS

TBD	TO BE DETERMINED
PPR	PHILADELPHIA PARKS & RECREATION
POB	POINT OF BEGINNING
SQ	SQUARE
FT	FOOT
LF	LINEAR FOOT
GA	GAUGE
TYP	TYPICAL
EX	EXISTING
VIF	VERIFY IN FIELD
FG	FINISH GRADE
ADJ	ADJACENT
PIP	POURED IN PLACE
MIN	MINIMUM
MAX	MAXIMUM
CRZ	CRITICAL ROOT ZONE

GENERAL NOTES

1. THE HORIZONTAL AND VERTICAL SURVEY DATA SHOWN HERE TO ON THE PLANS ARE FROM A DIGITAL FILE SUPPLIED BY SCI-TEK CONSULTANTS, INC.
2. THE CONTRACTOR SHALL SECURE ALL PERMITS REQUIRED FOR WORK BY ANY FEDERAL, STATE OR LOCAL DEPARTMENTS, UTILITY COMPANIES OR JURISDICTION AFFECTED BY WORK.
3. THE CONTRACTOR SHALL PERFORM ALL WORK AND SERVICES SPECIFICALLY DESCRIBED IN AND REQUIRED BY THE CONTRACT DOCUMENTS (AS DEFINED IN THE CONTRACT) INCLUDING, WITHOUT LIMITATION, THE SCOPE OF WORK DOCUMENTS AND THE DRAWINGS AND DESIGN SPECIFICATIONS.
4. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND FIELD CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES IN CONTRACT DOCUMENTS AND OBTAIN CLARIFICATION BEFORE PROCEEDING WITH WORK AFFECTED BY THE DISCREPANCIES.
5. THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE TO NOTIFY ARCHITECT WILL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY TO COMPLETE THE WORK AS INDICATED BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WORK RESULTING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES WITHOUT THE ARCHITECT'S APPROVAL.
6. IN THE EVENT OF DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS, CONTRACTOR TO NOTIFY ARCHITECT AND OBTAIN RESOLUTION PRIOR TO PROCEEDING WITH THAT PORTION OF WORK. FOR PRICING PURPOSES, THE ALTERNATE WITH THE GREATER VALUE IS TO BE USED UNTIL THE DISCREPANCY IS RESOLVED BY THE ARCHITECT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION WITH ALL LOCAL UTILITY COMPANIES. THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
8. THE CONTRACTOR SHALL LOCATE, PROTECT AND IDENTIFY ALL UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INFORMATION AND SATISFYING THEMSELVES AS TO THE LOCATION OF UTILITIES, SHOWN AND NOT SHOWN. ALL REPAIRS OR RELOCATIONS NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITIES OR STRUCTURES. THE COST OF SUCH REPAIRS OR RELOCATIONS NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
9. EXISTING CONSTRUCTION INCLUDING UTILITIES, SUBSURFACE GRADING, DRAINAGE, BUILDING FOUNDATION WORK, AND OTHER MISCELLANEOUS IS TO REMAIN UNDISTURBED AND TO BE PROTECTED UNLESS OTHERWISE INDICATED.
10. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY STRUCTURES AS REQUIRED TO MEET PROPOSED GRADES, INCLUDING DRAIN INLETS, MANHOLES AND LIGHT POLE BASES. CONTRACTOR SHALL MEET EXISTING GRADES AT ALL EDGES OF LIMITS OF WORK.
11. THE CONTRACTOR SHALL PROTECT THE WORK AND ALL NEARBY PEOPLE AND PROPERTY INCLUDING EXISTING BUILDINGS, PAVING, DRAINAGE STRUCTURES, FENCES, LAWNS, PLANTING, ETC. FROM DAMAGE. COST OF REPAIR, RESTORATION OR REPLACEMENT TO THEIR ORIGINAL OR BETTER CONDITION TO SITE COMPONENTS REMAINING OR WORK AREAS OUTSIDE OF LIMIT OF WORK SHALL BE AT CONTRACTOR'S EXPENSE UNLESS PROVISION FOR PAYMENT IS MADE IN THE PROPOSAL. ALL CONSTRUCTION AREAS SHALL BE RESTORED, INCLUDING GRADING, PAVING, SEEDING, ETC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF ANY MATERIALS DEPOSITED OUTSIDE THE WORK AREA. EXISTING CONSTRUCTION DRAINAGE SYSTEM AND EROSION CONTROL SHALL BE MAINTAINED, MODIFIED, AND/OR REMOVED AS NOTED ON CIVIL ENGINEERING PLANS.
13. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS AND REGULATIONS.
14. THE CONTRACTOR SHALL SCHEDULE WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS AND REGULATIONS.
15. FOLLOW FIGURED DIMENSIONS AND DO NOT SCALE CONTRACT DRAWINGS.

SYMBOL LEGEND

NORTH ARROW		DRAWING TITLE		IDENTIFICATION	SCALE: 1" = 40' - 0"
SCALE BAR		REVISION RECORD		REVISION NUMBER	
AREA OF DETAIL ENLARGEMENT		CENTER POINT CONTROL POINT		CENTERLINE	
DETAIL TAGS		MATCH LINE		BREAK LINE	
ELEVATION TAGS		SPOT GRADES		DIMENSION DTYLE	
SECTION TAGS		SPOT ELEVATIONS		NOTES, LABELS, CALLOUTS	
		ELEVATION TARGET		ARROWS TO POINT DOWN SLOPE	
		SYMBOL TAGS		HATCHES	
		MATERIAL TAGS			COMPACTED SUBGRADE SOIL
					STRUCTURAL SOIL
					PLANTING SOIL
					SAND
					AGGREGATE
					CONCRETE
					STEEL
					ALUMINUM

REVISIONS	NO.	DATE	DESCRIPTION

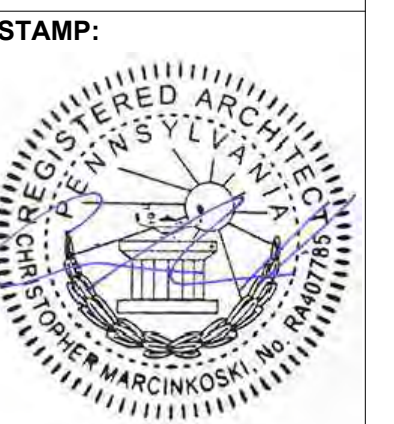
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 KS Engineers, P.C.
 530 Walnut Street,
 Suite 460
 Philadelphia, PA. 19106

MEP ENGINEER
 Arora Engineers, Inc.
 61 Wilmington-West
 Chester Pike
 Chadds Ford, PA 19317

**COBBS CREEK
 PLAYGROUND**
 PHILADELPHIA, PA



STAMP:

JOB NO: 2131
 DATE: 07/22/2022
 DRAWN: NJ
 CHECKED: CM
 DRAWING TITLE:
**DRAWING LIST
 AND GENERAL
 NOTES**
 DRAWING NO:
G-000
 SHEET 01 OF 22

REVISIONS NO.	DATE	DESCRIPTION



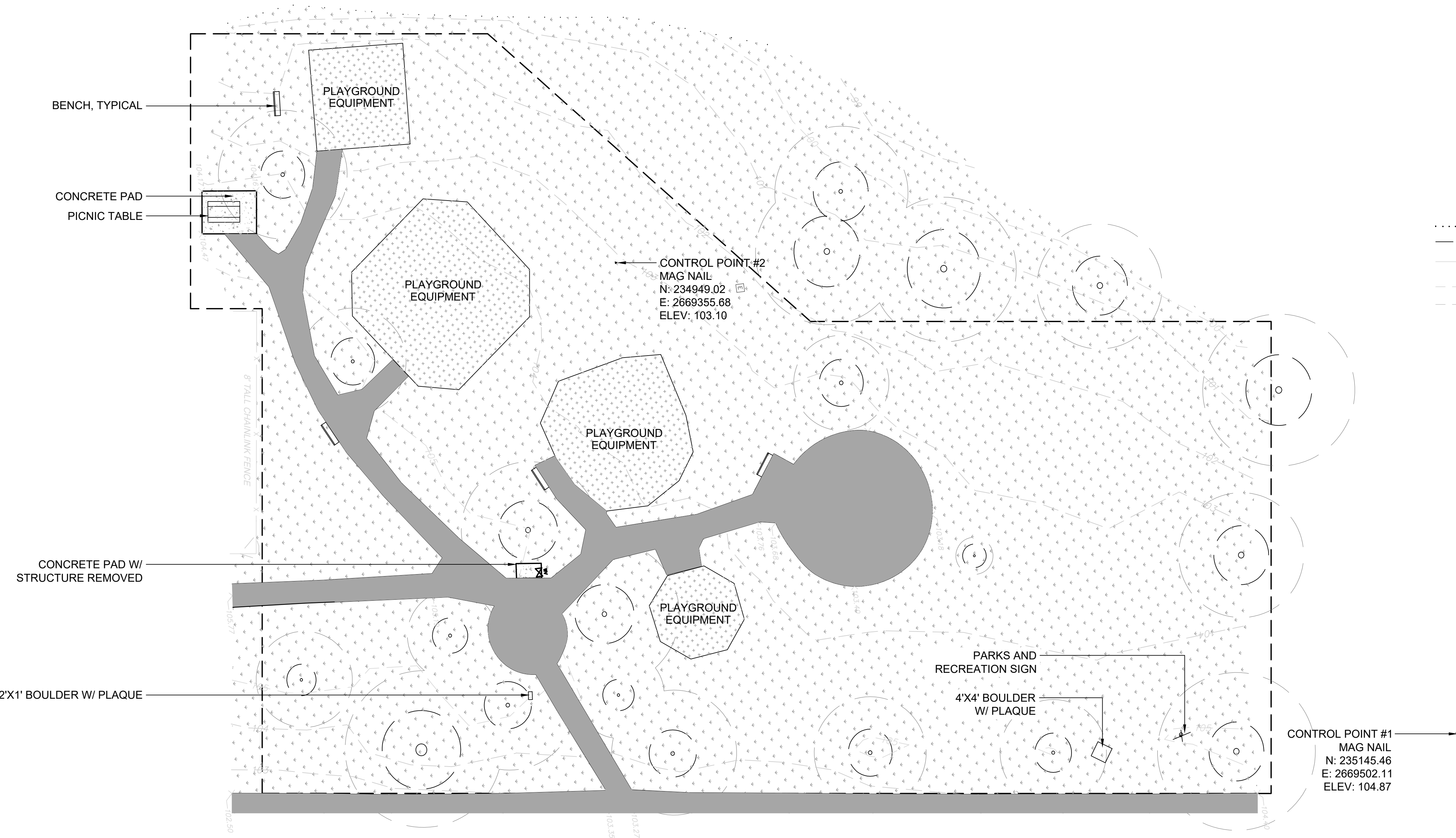
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Philadelphia, PA. 19106

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COBBS CREEK PLAYGROUND PHILADELPHIA, PA



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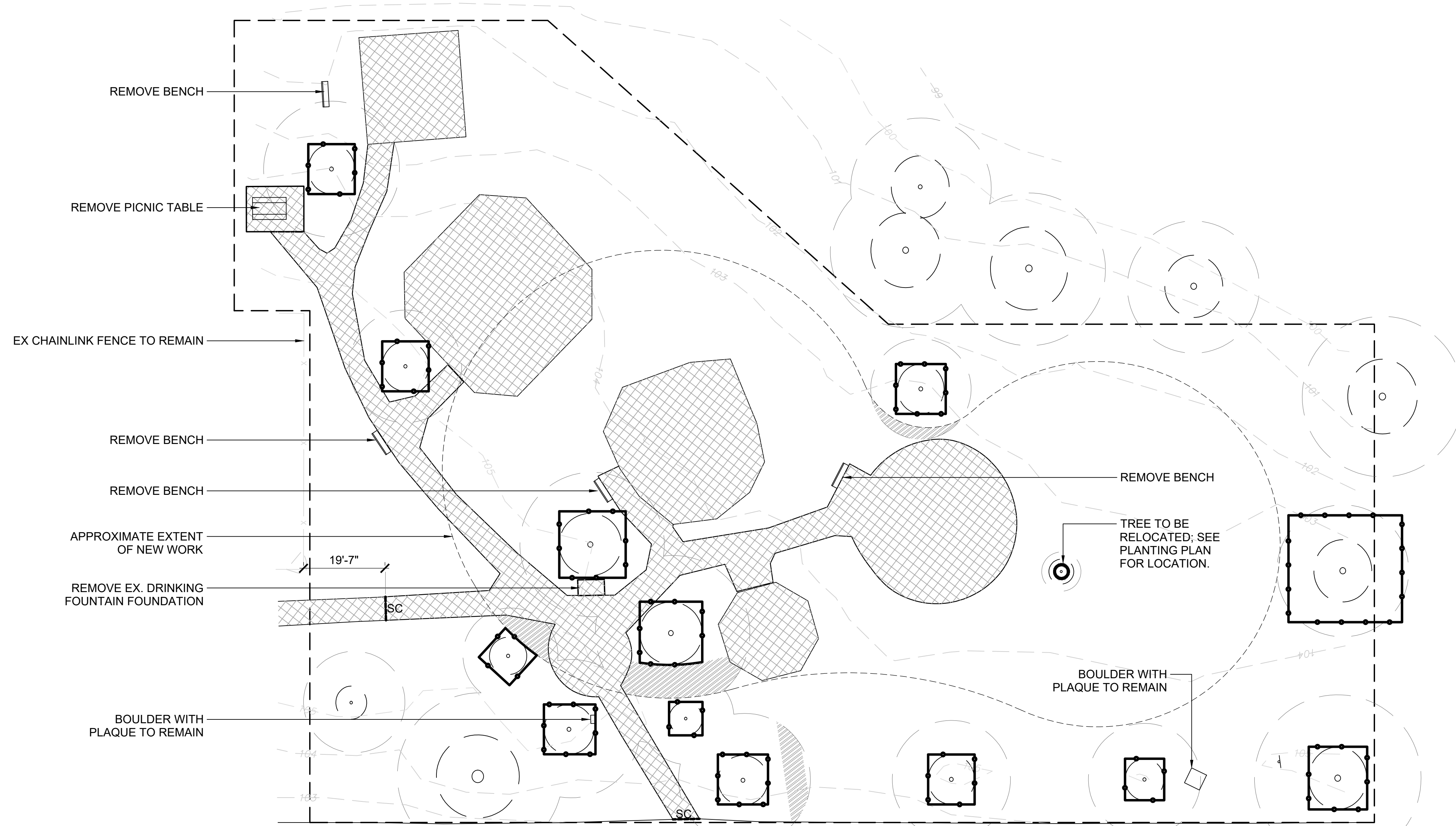
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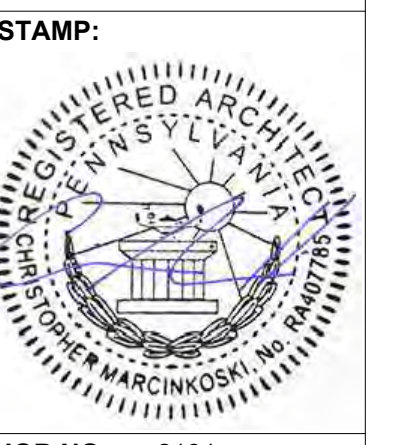
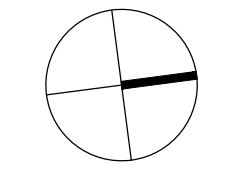
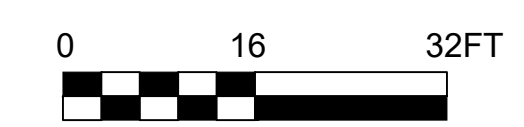
LEGEND

- LIMIT OF WORK, NO DISTURBANCE
- - - - - APPROXIMATE EXTENT OF NEW WORK
- [Symbol: Rectangular area with dots] TREE PROTECTION FENCE, REFER TO 1/L202 FOR DETAILS
- [Symbol: Cross-hatched area] REMOVE ASPHALT, CONCRETE, SAFETY SURFACE, & PLAY EQPT
- [Symbol: Diagonal hatched area] AIR EXCAVATION + ROOT PRESERVATION ZONE, REFER TO 2/L202 FOR DETAILS, REFER TO SPECIFICATIONS FOR PROCEDURES.
- [Symbol: Circle with dot] APPROX. EXTENTS OF CANOPY EXISTING TREE TO REMAIN
- [Symbol: Circle with dashed line] CRITICAL ROOT ZONE
- [Symbol: Circle with solid line] EXISTING TREE TO BE REMOVED AND RELOCATED
- [Symbol: Line with 'SC'] SAW CUT EXISTING PAVEMENT

TREE PROTECTION NOTES

1. ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TREE PROTECTION FENCING. LOCATION OF TREE PROTECTION FENCING IS INDICATED ON DRAWINGS.
2. TREE PROTECTION FENCE SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PROCESS. IF TREE PROTECTION IS MOVED OR REMOVED FOR THE INSTALLATION OF THE WORK REPLACE IT IMMEDIATELY AT THE COMPLETION OF THE WORK.
3. TRENCHING OR EXCAVATION WITHIN THE TREE PROTECTION FENCE SHALL BE COMPLETED WITH EXTREME CARE AND UNDER THE SUPERVISION OF A CERTIFIED ARBORIST. USE HAND TOOLS ONLY.
4. AVOID DAMAGING EXISTING TREES. DAMAGE INCLUDES BUT IS NOT LIMITED TO: CUTTING, BREAKING, SKINNING, OR COMPACTING OF ROOTS, SKINNING AND BRUISING OF BARK AND BREAKING OF BRANCHES AND LIMBS.
5. CONTRACTOR SHALL NOT PARK OR STORE EQUIPMENT AND SUPPLIES WITHIN THE TREE PROTECTION FENCING.
6. IF AREA WITHIN DRIP LINES OF TREES IS IMPACTED BY CONSTRUCTION ACTIVITY, TREES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. IF REPLACEMENT TREES ARE NEEDED, ARCHITECT WILL SPECIFY TREE SPECIES, SIZE, AND EXACT REPLACEMENT LOCATIONS.

01 TREE PROTECTION AND DEMO PLAN
SCALE: 1" = 16'-0"

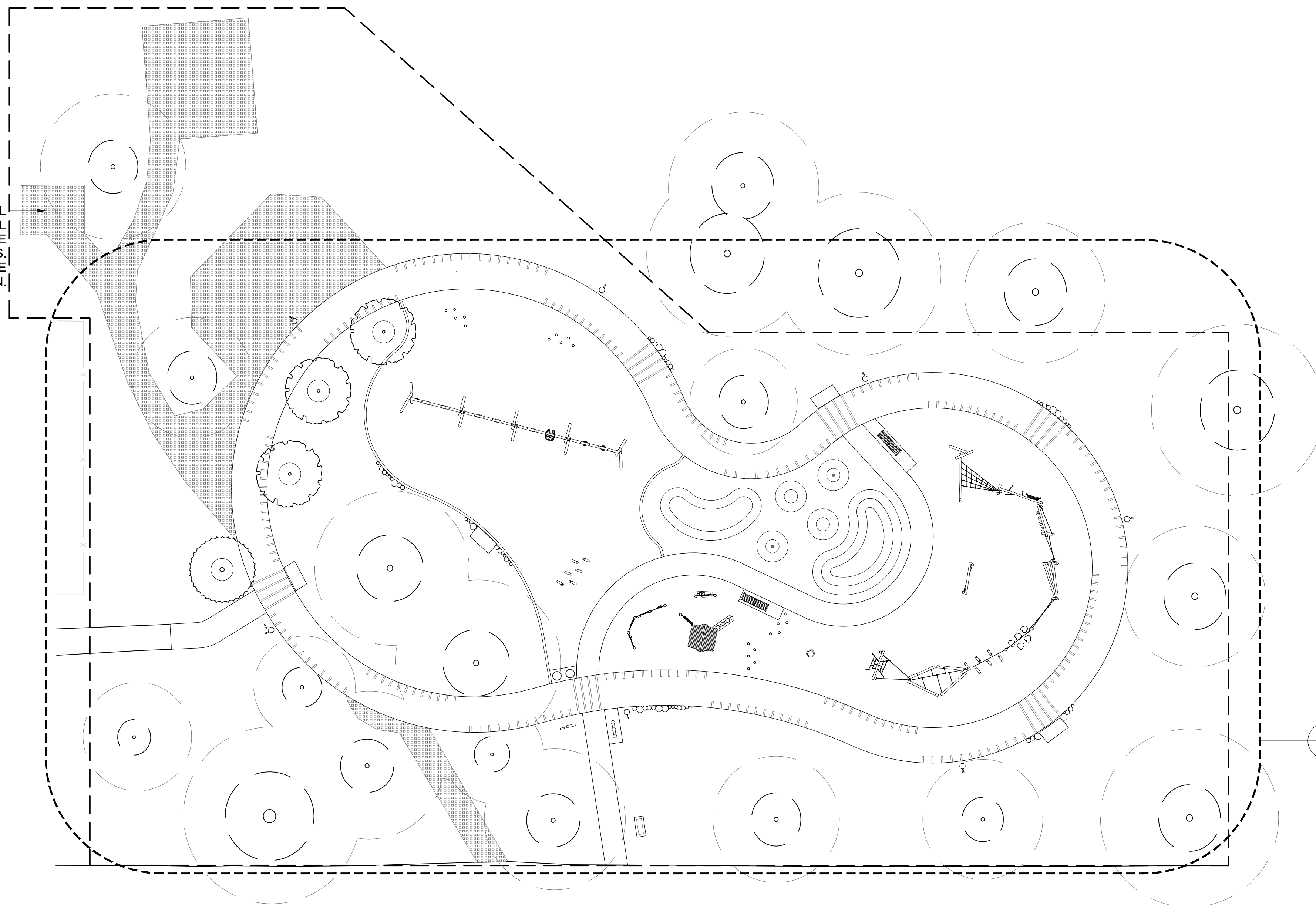


JOB NO: 2131
DATE: 07/22/2022
DRAWN: NJ
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TREE PROTECTION AND DEMO PLAN

DRAWING NO:
L-100
SHEET 03 OF 22

NEW NATURAL TURF GRASS IN ALL AREAS OF HARDSCAPE REMOVAL AND/OR AREAS OF DISTURBANCE DUE TO CONSTRUCTION ACTIVITIES. MATCH SURROUNDING GRADE, SEE CIVIL DRAWINGS FOR GRADING PLAN.



LEGEND

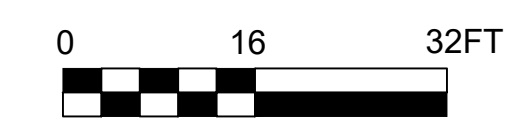
- LIMIT OF WORK, NO DISTURBANCE
- [Grid Pattern] NATURAL TURF GRASS
- (---) APPROX. EXTENTS OF CANOPY
EXISTING TREE TO REMAIN
CRITICAL ROOT ZONE
- (---) NEW TREE, SEE L300 FOR MORE INFORMATION
- (---) RELOCATED TREE, SEE SPECS FOR MORE INFORMATION

SITE PLAN NOTES

1. SURVEY INFORMATION SHOWN IS BASED ON A FIELD SURVEY PERFORMED BY SCI-TEK CONSULTANTS, INC. COMPLETED JANUARY 2021 AND PROVIDED TO THE ARCHITECT IN JUNE 2021.
2. ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REGULATIONS.
3. VERIFY DIMENSIONS AND ACCEPT CONDITIONS BEFORE PROCEEDING WITH ANY WORK. REPORT DISCREPANCIES TO ARCHITECT.
4. THESE CONSTRUCTION DOCUMENTS MAKE NO REPRESENTATIONS AS TO THE MEANS AND METHODS OF CONSTRUCTION
5. TOPOGRAPHIC INFORMATION NOT SHOWN FOR CLARITY. SEE CIVIL DRAWINGS FOR GRADING INFORMATION.

01 L102 MATERIALS, FURNISHINGS & EQUIPMENT PLAN

01 OVERALL SITE PLAN
SCALE: 1" = 16'-0"



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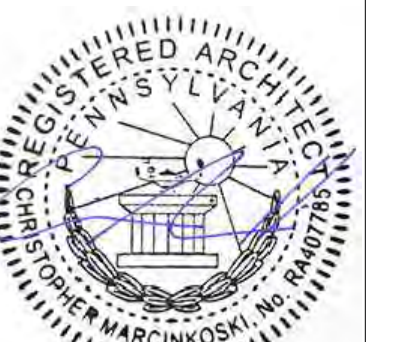
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**COBBS CREEK
PLAYGROUND
PHILADELPHIA, PA**

STAMP:



JOB NO: 2131
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DRAWING TITLE:

OVERALL SITE PLAN

DRAWING NO:
L-101
SHEET 04 OF 22

REVISIONS NO.	DATE	DESCRIPTION



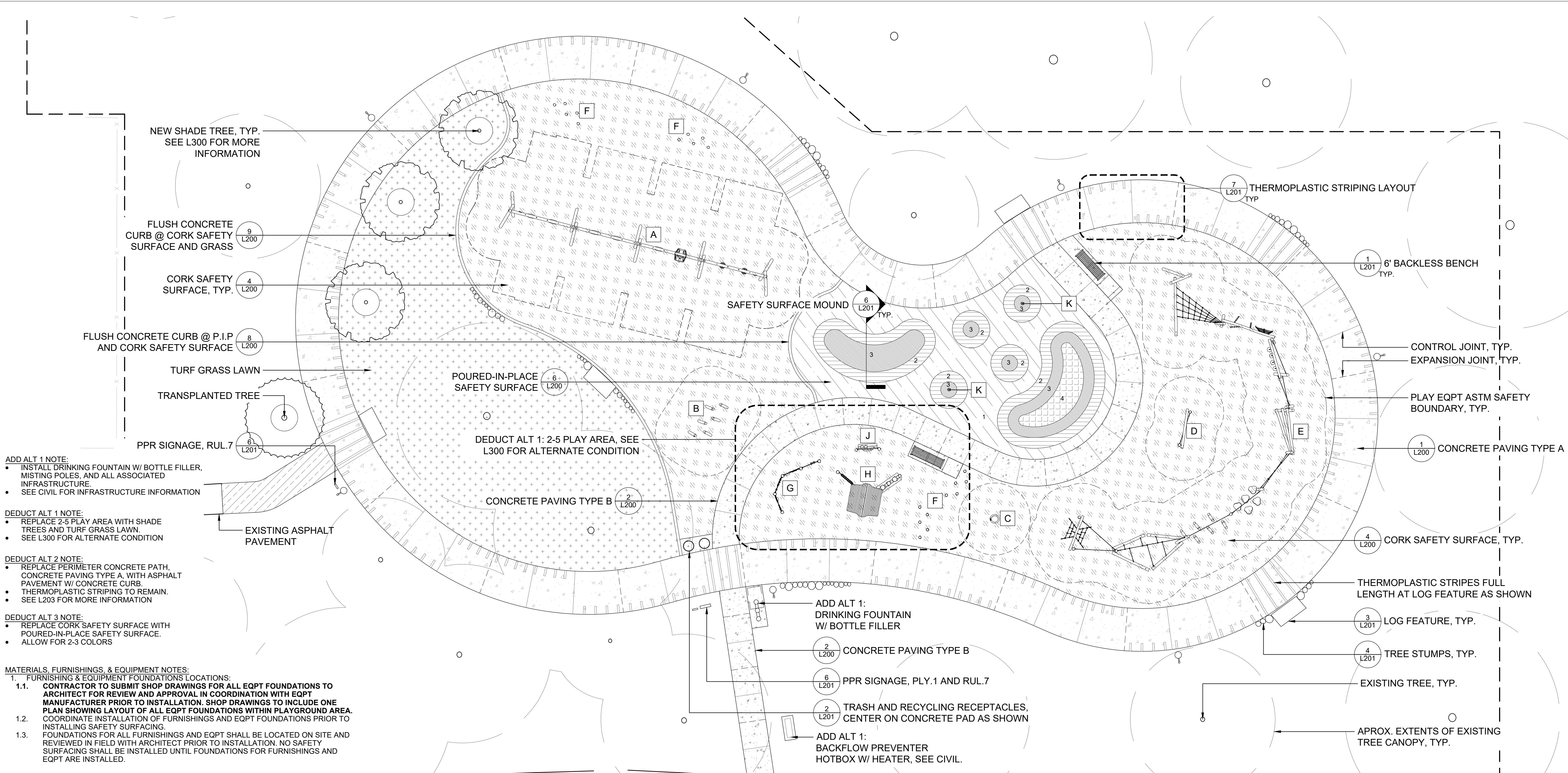
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COBB'S CREEK PLAYGROUND PHILADELPHIA, PA



ADD ALT 1 NOTE:

- INSTALL DRINKING FOUNTAIN W/ BOTTLE FILLER, MISTING POLES, AND ALL ASSOCIATED INFRASTRUCTURE.
- SEE CIVIL FOR INFRASTRUCTURE INFORMATION

DEDUCT ALT 1 NOTE:

- REPLACE 2-5 PLAY AREA WITH SHADE TREES AND TURF GRASS LAWN.
- SEE L300 FOR ALTERNATE CONDITION

DEDUCT ALT 2 NOTE:

- REPLACE PERIMETER CONCRETE PATH, CONCRETE PAVING TYPE A, WITH ASPHALT PAVEMENT W/ CONCRETE CURB.
- THERMOPLASTIC STRIPING TO REMAIN.
- SEE L203 FOR MORE INFORMATION

DEDUCT ALT 3 NOTE:

- REPLACE CORK SAFETY SURFACE WITH POURED-IN-PLACE SAFETY SURFACE.
- ALLOW FOR 2-3 COLORS

MATERIALS, FURNISHINGS, & EQUIPMENT NOTES:

- FURNISHINGS & EQUIPMENT FOUNDATIONS LOCATIONS:
 - CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL EQPT FOUNDATIONS TO ARCHITECT FOR REVIEW AND APPROVAL IN COORDINATION WITH EQPT MANUFACTURER PRIOR TO INSTALLATION. SHOP DRAWINGS TO INCLUDE ONE PLAN SHOWING LAYOUT OF ALL EQPT FOUNDATIONS WITHIN PLAYGROUND AREA.
 - COORDINATE INSTALLATION OF FURNISHINGS AND EQPT FOUNDATIONS PRIOR TO INSTALLING SAFETY SURFACING.
 - FOUNDATIONS FOR ALL FURNISHINGS AND EQPT SHALL BE LOCATED ON SITE AND REVIEWED IN FIELD WITH ARCHITECT PRIOR TO INSTALLATION. NO SAFETY SURFACING SHALL BE INSTALLED UNTIL FOUNDATIONS FOR FURNISHINGS AND EQPT ARE INSTALLED.

PLAY EQUIPMENT SCHEDULE:

ITEM	QTY	PRODUCT NAME	PRODUCT NUMBER	MANUFACTURER	NOTES & OPTIONS	MAX. FALL HT.
A	1	ROBINIA SWINGS	NRO899647	KOMPAN	5 BELT SWING SEATS, 1 ADA SEAT, 2 BABY SEATS; STAINLESS STEEL CHAINS	7'-11"
B	1	ROBINIA STILTS	NRO806	KOMPAN	N/A	3'-7"
C	1	ROBINIA SPINNER BOWL	ELE400024	KOMPAN	COLOR: YELLOW	2'-0"
D	1	ROBINIA ROPE BRIDGE	NRO811	KOMPAN	ROPE COLOR: YELLOW	2'-0"
E	1	ROBINIA CUSTOM PARKOUR 5	US-NRO894027	KOMPAN	ROPE COLOR: YELLOW	2'-0"
F	10	ROBINIA SITTING POLE	NRO209	KOMPAN	N/A	N/A

DEDUCT ALT. 1: PLAY EQUIPMENT SCHEDULE: (SEE L300 FOR ALTERNATE CONDITION)

ITEM	QTY	PRODUCT NAME	PRODUCT NUMBER	MANUFACTURER	NOTES & OPTIONS	MAX. FALL HT.
G	1	ROBINIA SCHOOL PLAY PANEL 4	NRO616	KOMPAN	N/A	N/A
H	1	ROBINIA THEATER & MUSIC COTTAGE	NRO606	KOMPAN	N/A	N/A
J	1	ROBINIA DRESS-UP WALL WITH MIRROR	NRO603	KOMPAN	N/A	N/A
F	10	ROBINIA SITTING POLE	NRO209	KOMPAN	N/A	N/A

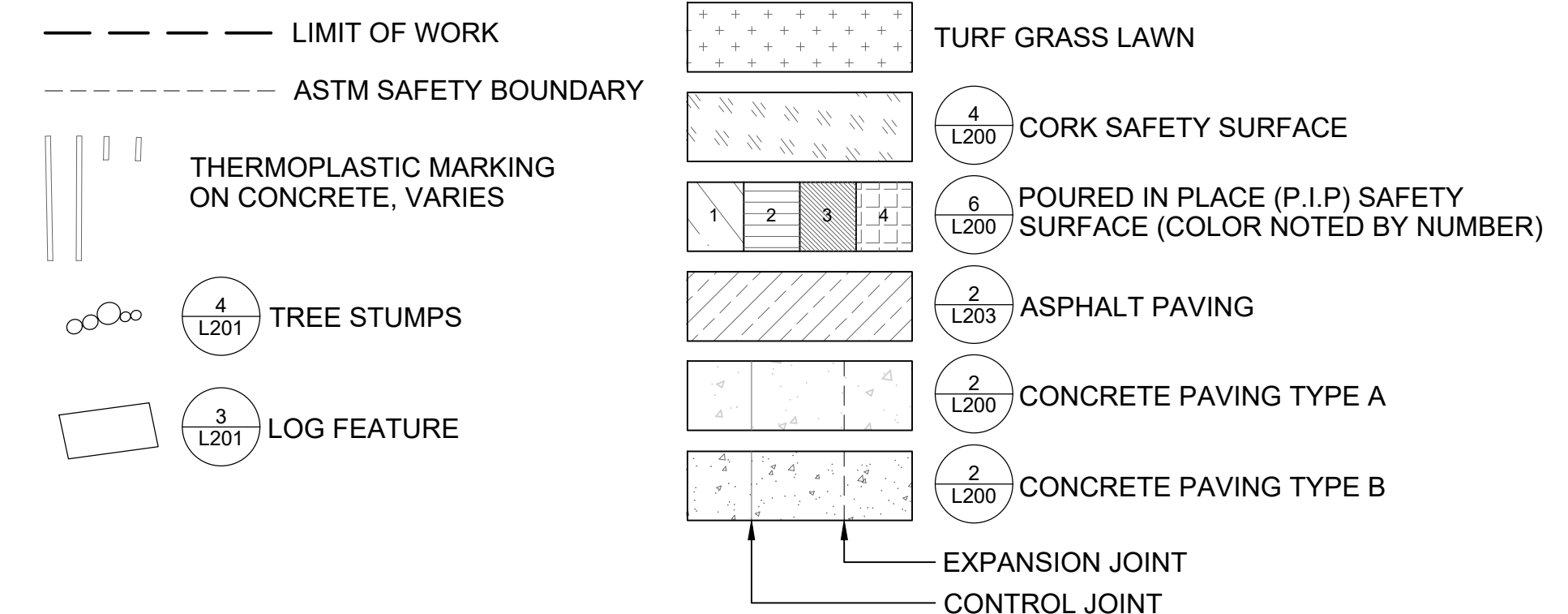
MATERIALS & FURNISHINGS SCHEDULE:

SYMBOL	PRODUCT NAME & MODEL NUMBER	QTY	MANUFACTURER	OPTIONS/FINISHES/COLOR	INSTALLATION
○ ○	TRASH AND RECYCLING RECEPTACLES WITH BONNET COVER; 157-32-SH	2	DU MOR	COLOR: BLACK (1) & RECYCLE BLUE (1)	SURFACE MOUNT
▬	6' BACKLESS BENCH; 166-60D (BACKLESS)	2	DU MOR	COLOR: BLACK; WITH CENTER ARMREST	SURFACE MOUNT
⦿	14' PEDESTRIAN LIGHT; DSC4L DG S1 MP350 3015 BK UNV TLR / AT535 14 BK BC3	7	SELUX	COLOR: BLACK; SEE ELECTRICAL DRAWINGS FOR SECURITY CAMERA LOCATIONS	SURFACE MOUNT/ CONC. FOOTING
—	STANDARD PPR SIGNS. ONE (1) PLY.1 AND TWO (2) RUL.7	SEE NOTE		PLAYGROUND RULES (PLY.1) AT MAIN ENTRY PLUS ONE RULES SIGN (RUL.7) AT EACH SIDEWALK ENTRANCE WITH ANIMAL FREE ZONE LOGO.	CONC. FOOTING

ADD ALT 1: DRINKING FOUNTAIN AND MISTING FEATURE SCHEDULE

SYMBOL	PRODUCT NAME & MODEL NUMBER	QTY	MANUFACTURER	OPTIONS/FINISHES/COLOR	INSTALLATION
⦿	BOTTLE FILLING STATION TRI-LEVEL PEDESTAL; LK4430BF1U	1	ELKAY	COLOR: BLACK	SURFACE MOUNT
K	SINGLE POST MISTER; 155071	2	LANDSCAPE STRUCTURES INC.	COLOR: MATTE GRAY; PUSH BUTTON ACTIVATION	DIRECT BURY/ CONC. FOOTING

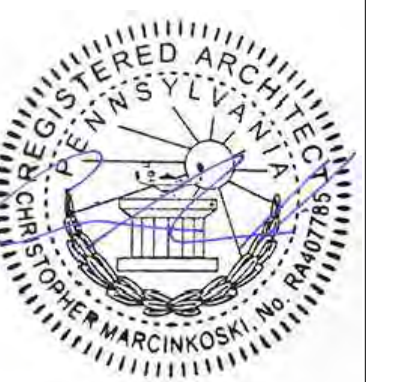
LEGEND



01 MATERIALS, FURNISHINGS & EQUIPMENT PLAN
SCALE: 1" = 10'



STAMP:



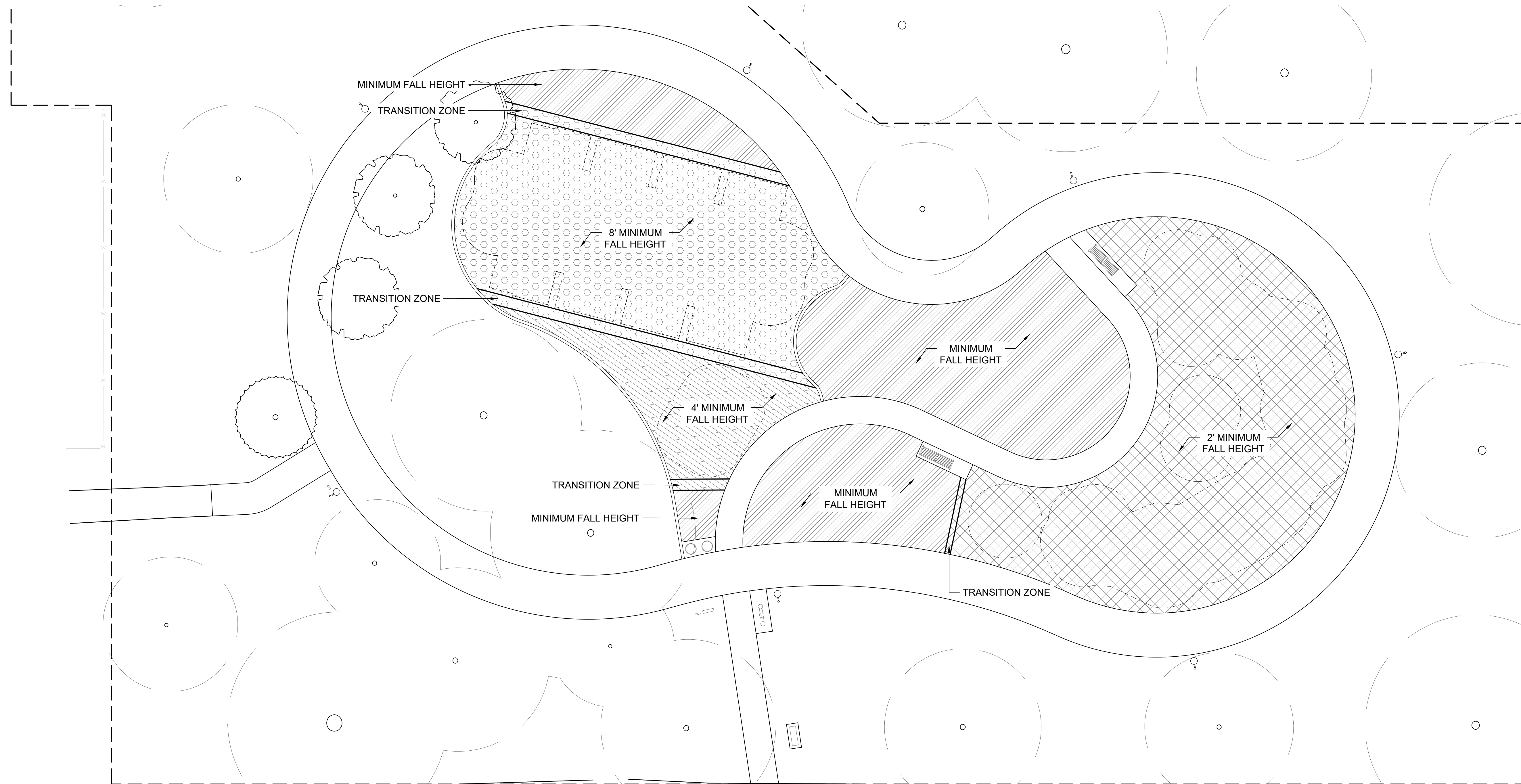
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DATE: 07/22/2022
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MATERIALS, FURNISHING & EQUIPMENT PLAN

DRAWING NO:

L-102

SHEET 05 OF 22



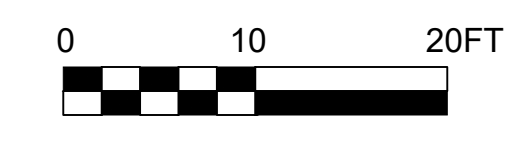
NOTES:

1. SAFETY SURFACE DEPTH MUST MEET OR EXCEED THAT WHICH IS REQUIRED TO MEET THE CRITICAL FALL HEIGHT CRITERIA OF EACH PIECE OF EQUIPMENT, ASTM-F1292-13, OR MOST RECENT EDITION STANDARD.
2. CONFIRM FALL HEIGHT EXTENTS BASED ON FINAL LOCATION OF EACH PIECE OF EQUIPMENT BEFORE TRANSITIONING BETWEEN SAFETY SURFACE DEPTHS.
3. FOR TRANSITION ZONES, SEE 5/L-200 FOR DETAILS.
4. FOR AREAS OF 'MINIMUM FALL HEIGHT' SEE SPECS FOR MINIMUM DEPTH OF BASE OR CUSHION COURSE FOR SAFETY SURFACE.
5. PLAN DETAIL REMOVED FOR CLARITY. SEE L-102 FOR MATERIALS, FURNISHINGS & EQUIPMENT PLAN.

LEGEND

- LIMIT OF WORK
- ASTM SAFETY BOUNDARY
- [Hatched Box] EDGE OF PAVEMENT, SEE L-102 MATERIALS, FURNISHING, & EQUIPMENT PLAN FOR TYPES
- (Circle with dot) EXISTING TREE TO REMAIN
- (Circle with dot) APPROX. EXTENTS OF CANOPY
- (Scalloped Circle) NEW TREE, SEE L300 FOR MORE INFORMATION

01 SAFETY SURFACE FALL HEIGHT PLAN
SCALE: 1" = 10'



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**COBBS CREEK
PLAYGROUND
PHILADELPHIA, PA**

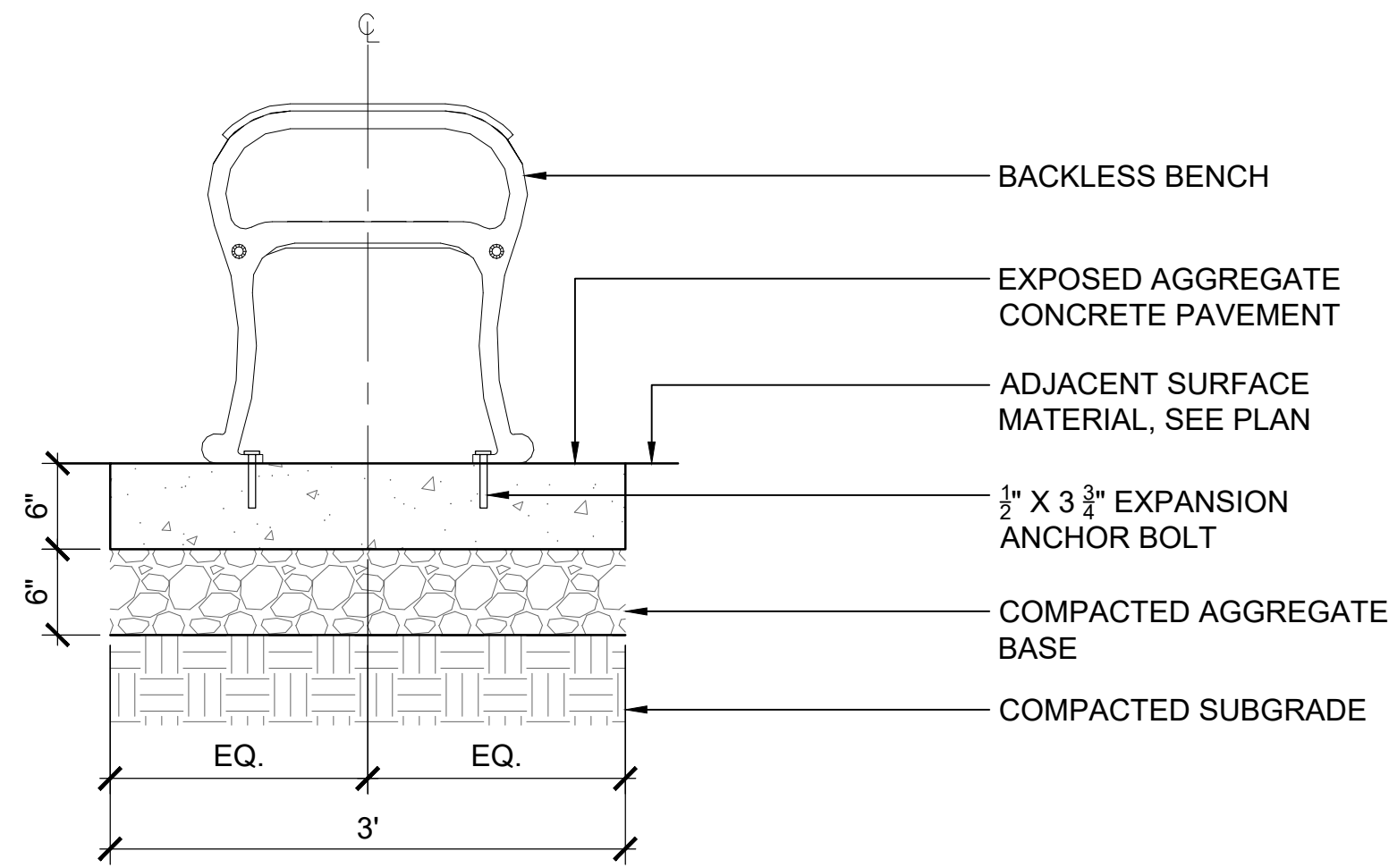
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DRAWING TITLE:

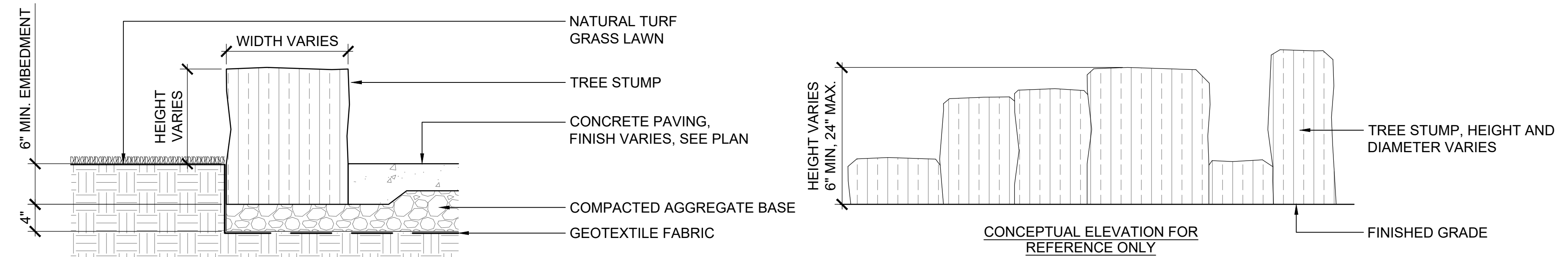
LAYOUT PLAN

DRAWING NO:
L-105
SHEET 08 OF 22



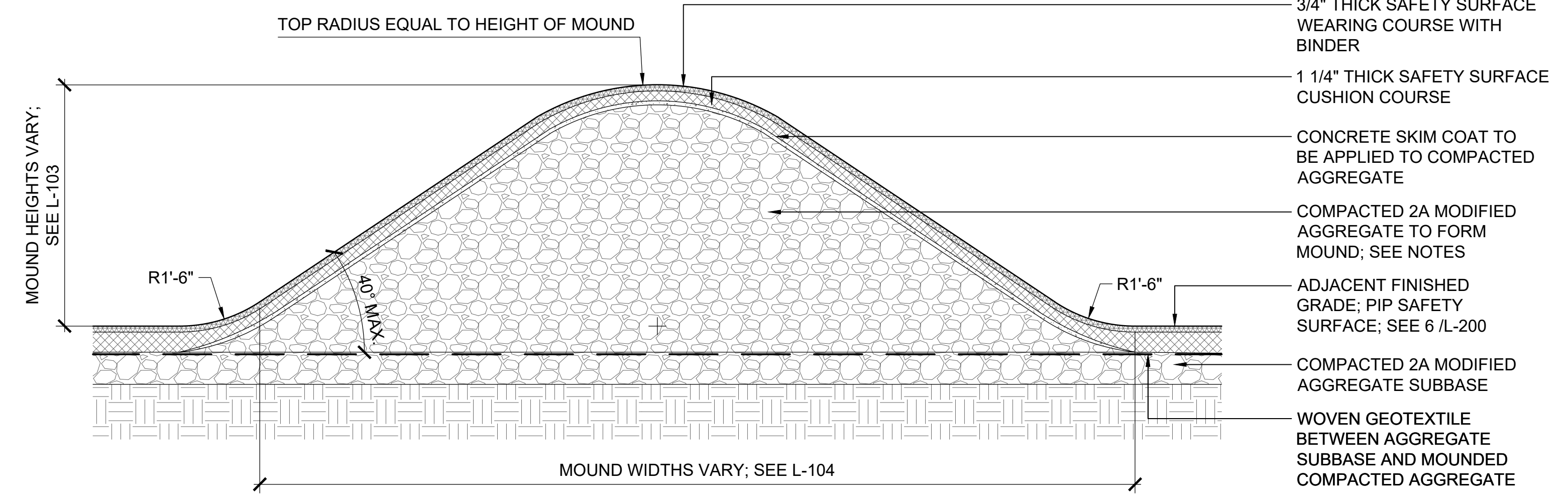
1 6' BACKLESS BENCH
SCALE: 1" = 1'-0"

- NOTES:**
- TREE STUMPS FOR FEATURES MAY BE OBTAINED FROM CITY OF PHILADELPHIA RECYCLING CENTER, 3850 W. FORD ROAD, PHILADELPHIA, PA 19131.
 - LOGS SHALL BE TAGGED BY ARCHITECT. IF LOGS ARE NOT AVAILABLE AT RECYCLING CENTER, CONTRACTOR SHALL IDENTIFY OTHER MATERIAL SOURCE AND SUBMIT TO ARCHITECT FOR APPROVAL. CONTRACTOR SHALL COORDINATE WITH ARCHITECT TO TAG MATERIALS AT SOURCE.

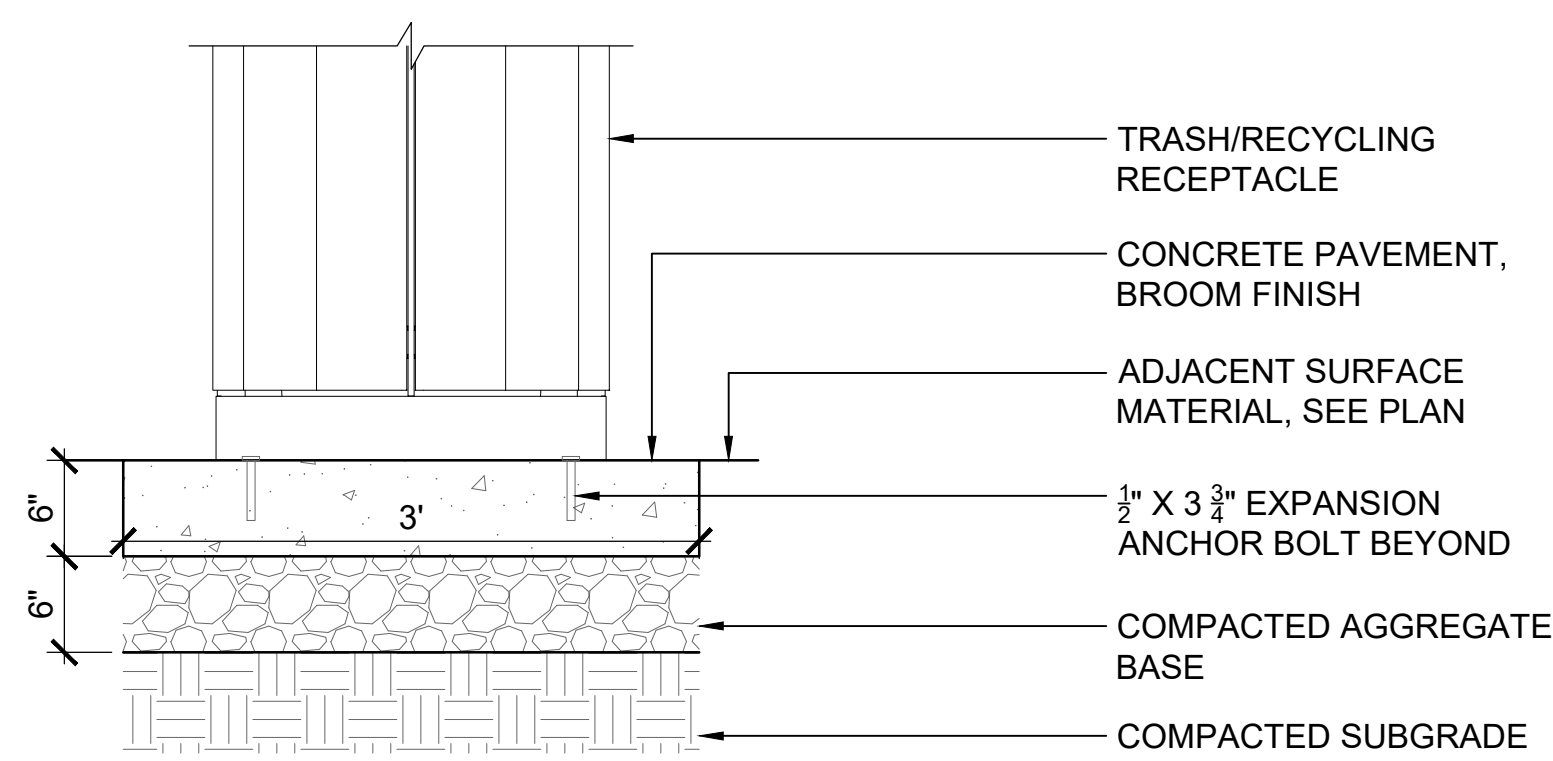


4 TREE STUMPS
SCALE: 1" = 1'-0"

- NOTES:**
- FOR FORMATION OF PLAY MOUNDS, 2A MODIFIED AGGREGATE SHALL BE INSTALLED IN 6" LIFTS. LIGHTLY MOISTEN EACH LAYER TO ENSURE SOLID COMPACTION. DO NOT OVER SATURATE AGGREGATE. APPLY BINDING PRIMER COAT TO TOP OF CONCRETE SKIM COAT TO ENSURE SAFETY SURFACE COURSES ADHERE TO CONCRETE.
 - INSTALL POURED-IN-PLACE SAFETY SURFACE PER MANUFACTURER'S RECOMMENDATIONS.
 - HEIGHTS AND WIDTHS OF MOUNDS VARY; SEE 2/L-104



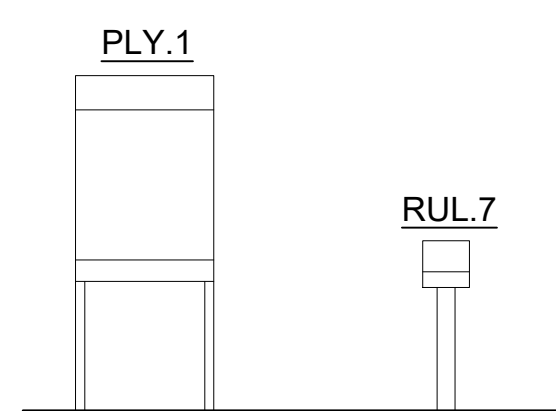
5 SAFETY SURFACE MOUND
SCALE: 1" = 1'-0"



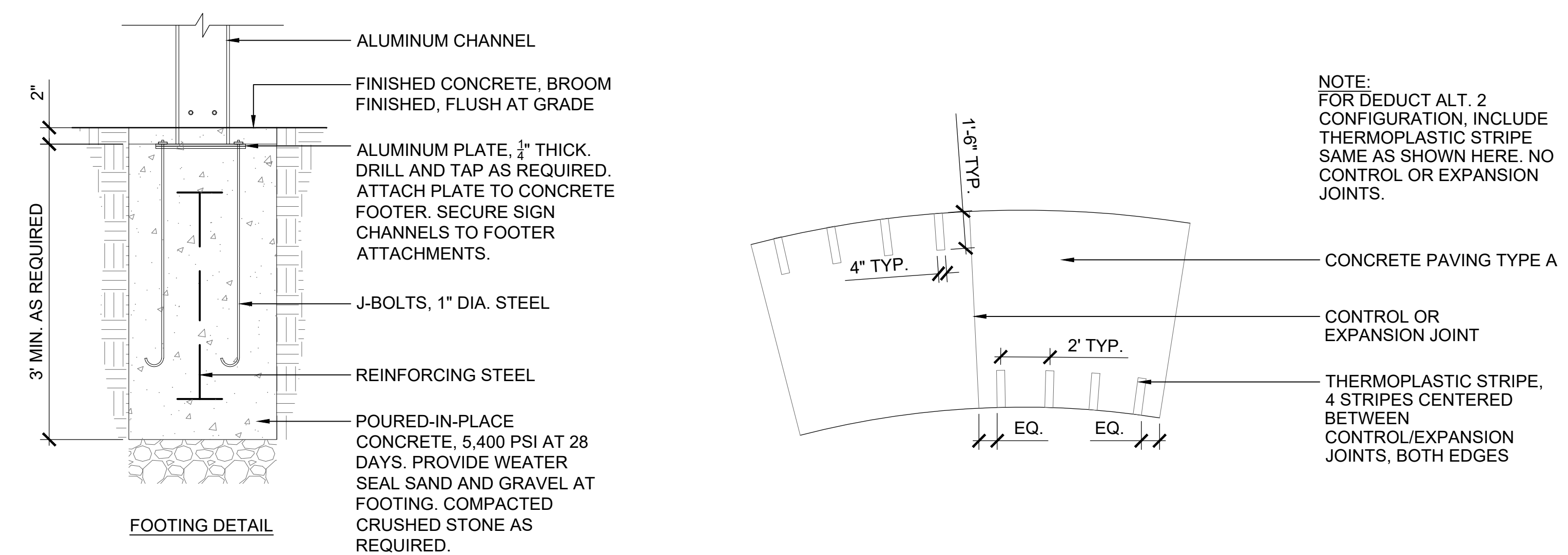
2 TRASH AND RECYCLING RECEPTACLES
SCALE: 1" = 1'-0"

- NOTES:**
- LOGS FOR FEATURES MAY BE OBTAINED FROM CITY OF PHILADELPHIA RECYCLING CENTER, 3850 W. FORD ROAD, PHILADELPHIA, PA 19131.
 - LOGS SHALL BE TAGGED BY ARCHITECT. IF LOGS ARE NOT AVAILABLE AT RECYCLING CENTER, CONTRACTOR SHALL IDENTIFY OTHER MATERIAL SOURCE AND SUBMIT TO ARCHITECT FOR APPROVAL. CONTRACTOR SHALL COORDINATE WITH ARCHITECT TO TAG MATERIALS AT SOURCE.

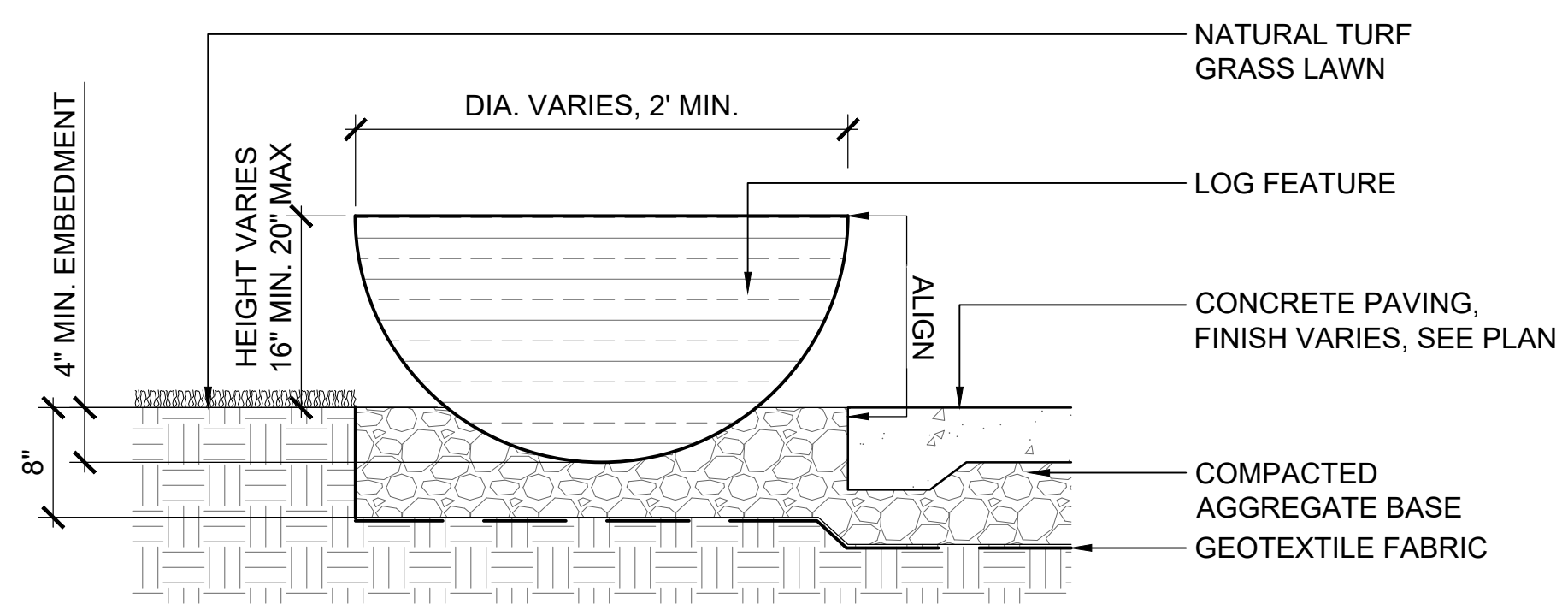
- NOTES:**
- DETAIL AND ELEVATION INFORMATION FOR REFERENCE ONLY. REFER TO 'PHILADELPHIA PARKS & RECREATION SIGNAGE STANDARDS MANUAL' VERSION 1.1, JUNE 2018 OR MOST RECENT.
 - SEE SPECIFICATIONS FOR MORE INFORMATION.
 - ALL FINAL GRAPHICS TO BE APPROVED BY CLIENT/PPR.



6 PARK SIGNAGE
SCALE: NTS



7 THERMOELASTIC STRIPING LAYOUT
SCALE: 1/4" = 1'-0"



3 LOG FEATURE
SCALE: 1" = 1'-0"

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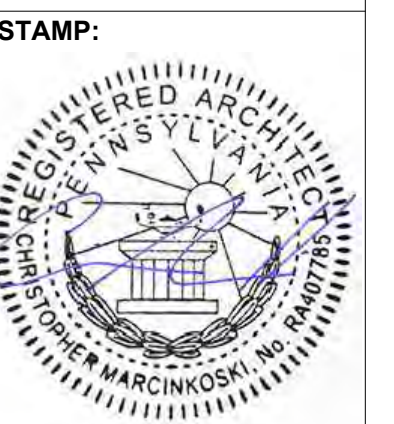
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Philadelphia, PA. 19106

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Chester Pike
Chadds Ford, PA 19317

**COBBS CREEK
PLAYGROUND**
PHILADELPHIA, PA

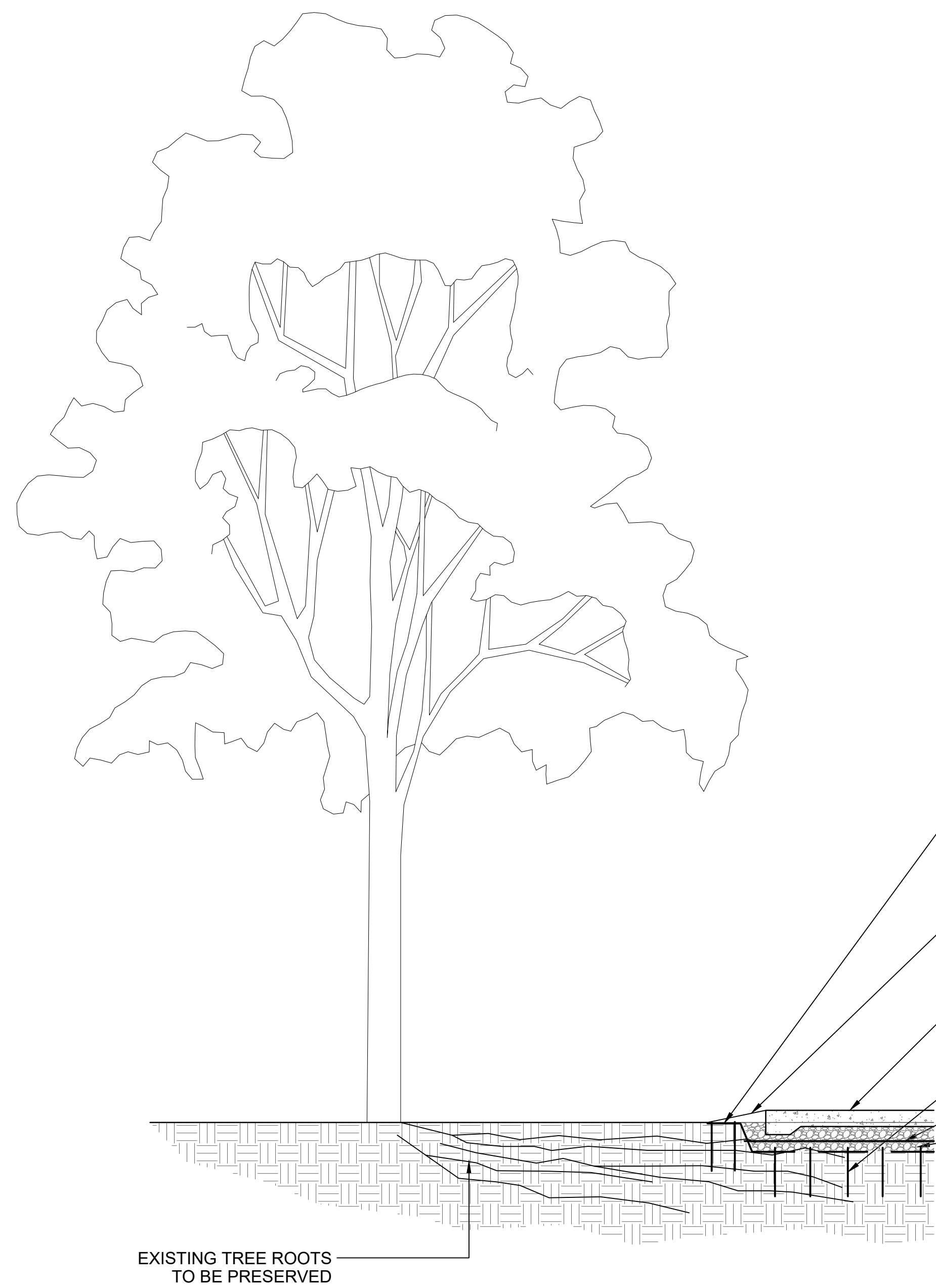


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NOTES:
 ALL TREE ROOT PROTECTION/AERATION WORK MUST BE DONE UNDER THE DIRECTION OF A CERTIFIED ARBORIST, AND IN THE PRESENCE OF THE ARCHITECT. WORK SHALL BE PERFORMED BY A QUALIFIED CONTRACTOR WHOSE WORK HAS RESULTED IN SUCCESSFUL ROOT AERATION MATTING INSTALLATIONS. DOCUMENTATION TO SUPPORT CONTRACTOR QUALIFICATIONS SHALL BE SUBMITTED TO OWNER. THE QUALIFIED CONTRACTOR SHALL HAVE THREE (3) YEARS EXPERIENCE INSTALLING ROOT AERATION MATTING.

ROOT AERATION MATTING TO BE INSTALLED ON TOP OF EXISTING ROOTS. SECURED WITH TURFNAILS AND VENTED AT TOE OF SLOPE.

ROOT AERATION MAT:
 HEAVY DUTY HIGH DENSITY POLYETHYLENE
 0.54\"/>

SLOPE BACKFILL DOWN TO EXISTING GRADE

1
 L200 CONCRETE PAVEMENT TYPE A

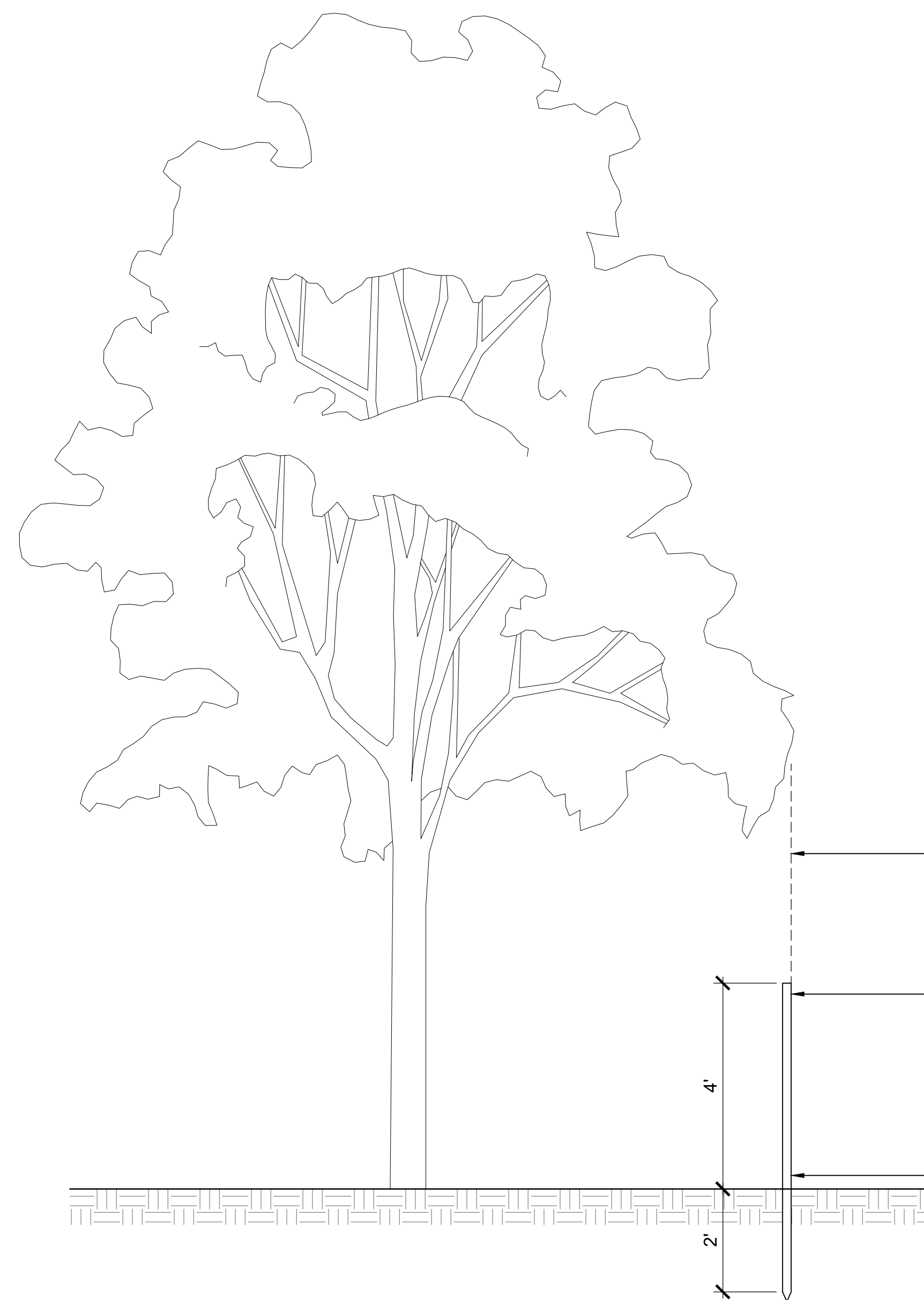
12\"/>

GEOGRID

TOPSOIL SHALL BE NON-INVASIVELY EXCAVATED WITH SUPERSONIC AIR TOOL (SSAT) TO ROOT DENIAL DEPTH PRIOR TO INSTALLATION OF ROOT AERATION MATTING.

RESULTS OF EXCAVATION SHALL BE DOCUMENTED WITH A CERTIFIED ARBORIST AND FINAL DETAIL OF SIDEWALK INSTALLATION MAY BE MODIFIED BY ENGINEER/LANDSCAPE ARCHITECT BASED ON THOSE RESULTS.

ROOTS MUST NOT BE EXPOSED FOR LONGER THAN 6 HOURS AND CONTRACTOR MUST PREVENT DESICCATION OF ROOTS.



- NOTES:
1. CONTRACTOR SHALL ENSURE TREE PROTECTION FENCE REMAINS INTACT THROUGH DURATION OF CONSTRUCTION.
 2. NO MATERIALS SHALL BE STORED INSIDE TREE PROTECTION FENCE.

DRIP LINE OR CRZ OF TREE

48\"/>

MOUNT SNOW FENCING ON 2\"/>

2 BELOW GRADE ROOT AERATION MATTING
 SCALE: 1/2\"/>

1 TREE PROTECTION FENCE
 SCALE: 1/2\"/>

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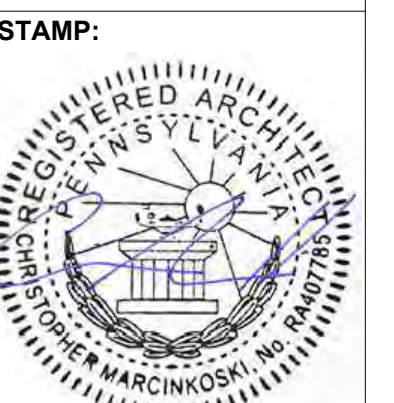


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 Philadelphia, PA. 19107

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 Chester Pike
 Chadds Ford, PA 19317

**COBBS CREEK
 PLAYGROUND**
 PHILADELPHIA, PA



JOB NO: 2131
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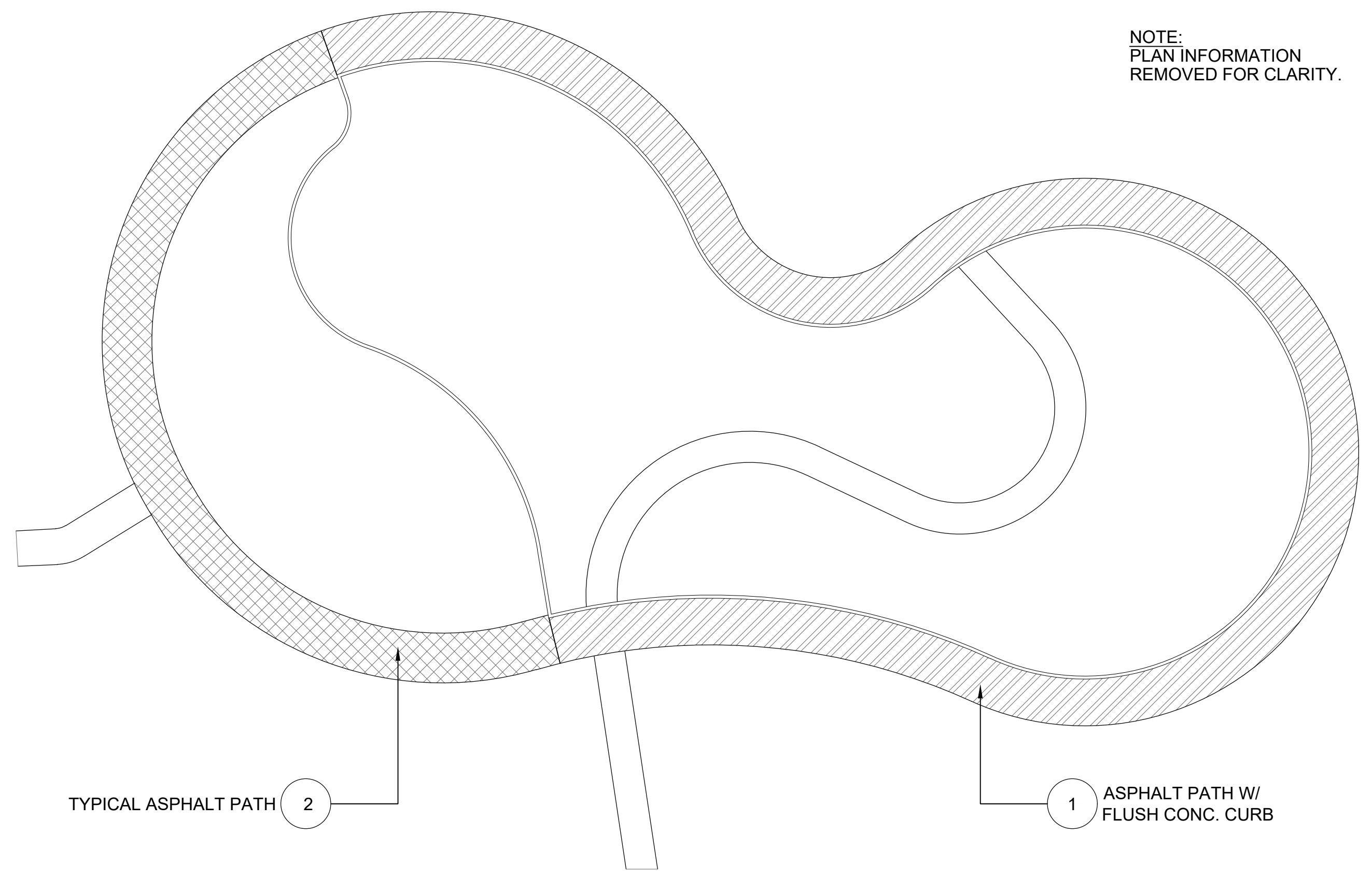
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NOTE:
PLAN INFORMATION
REMOVED FOR CLARITY.

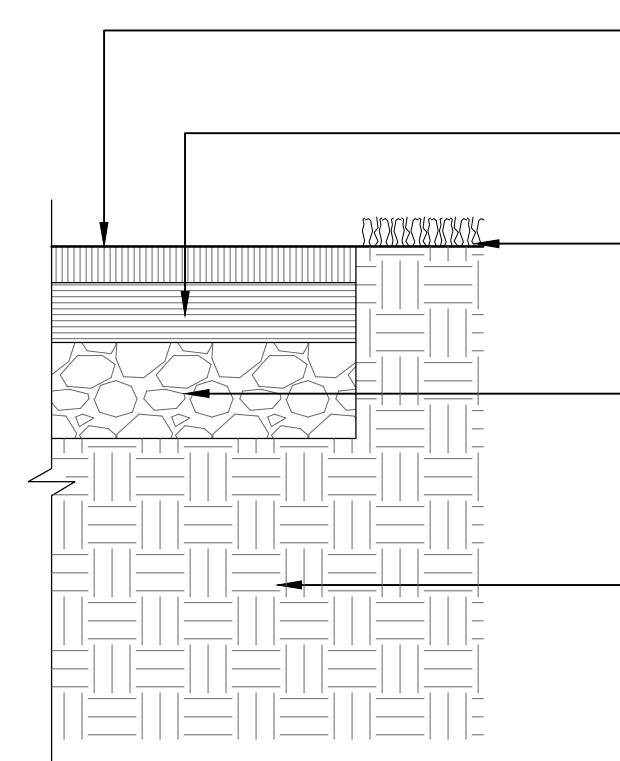
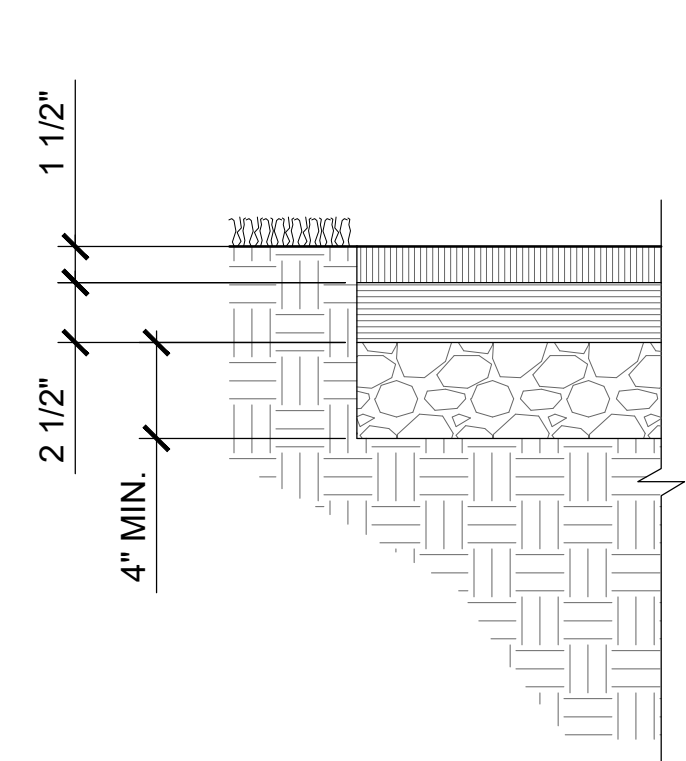


TYPICAL ASPHALT PATH 2

1 ASPHALT PATH W/
FLUSH CONC. CURB

3 DEDUCT ALT 2: ASPHALT PATH KEY PLAN
SCALE: 1/16" = 1'-0"

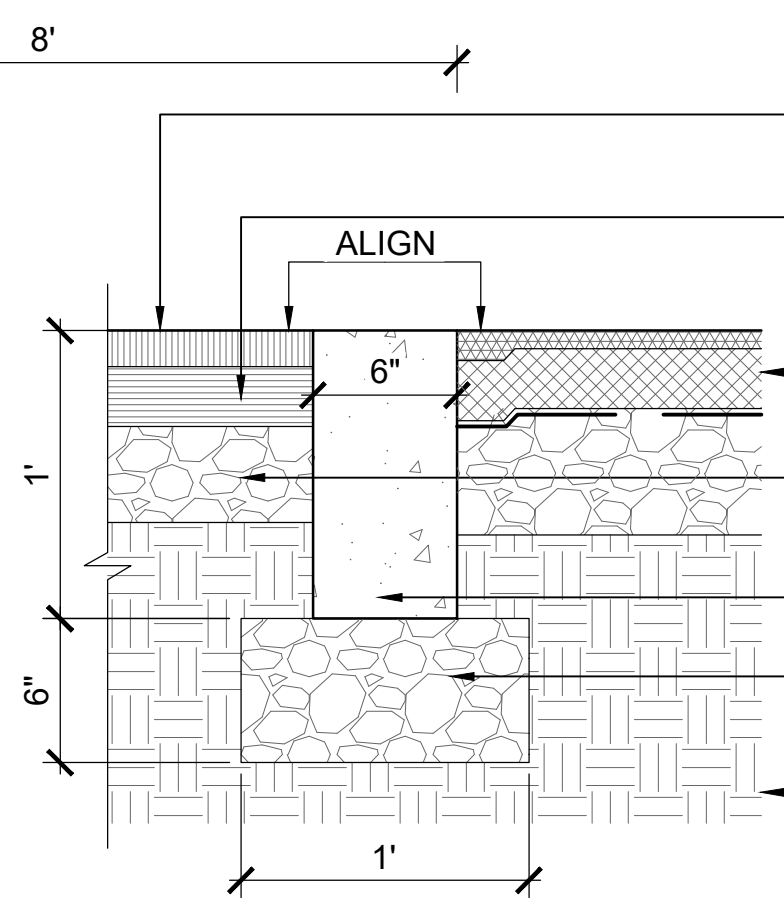
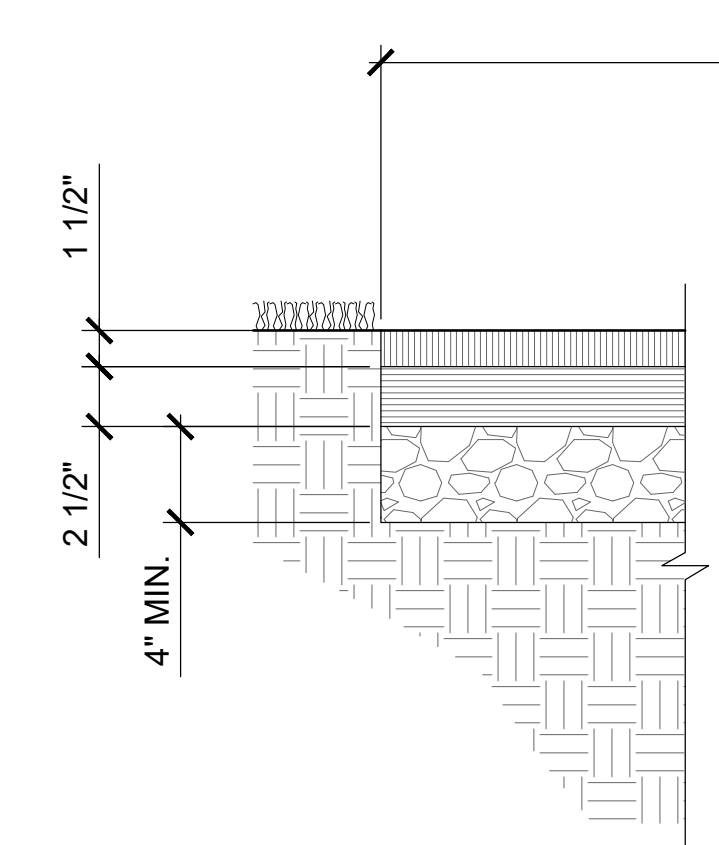
NOTE:
PROVIDE TEMPORARY
WOODEN FORMS OR
SAWCUT TO HAVE SHARP,
CLEAN ASPHALT EDGE.



- BITUMINOUS ASPHALT WEARING COURSE
- BITUMINOUS ASPHALT BINDER COURSE
- NATURAL TURF GRASS LAWN, BOTH SIDES
- COMPACTED AGGREGATE BASE
- COMPACTED SUBGRADE

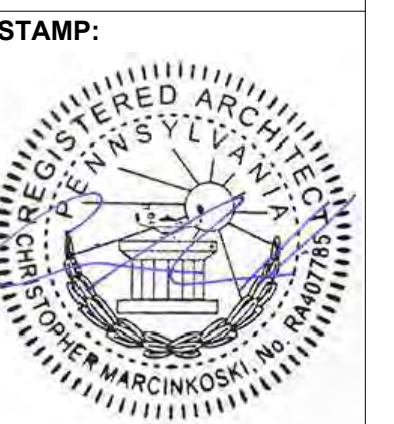
2 DEDUCT ALT 2: TYPICAL ASPHALT PATH
SCALE: 1 1/2" = 1'-0"

NOTE:
PROVIDE TEMPORARY
WOODEN FORMS OR
SAWCUT TO HAVE SHARP,
CLEAN ASPHALT EDGE.



- BITUMINOUS ASPHALT WEARING COURSE
- BITUMINOUS ASPHALT BINDER COURSE
- ADJACENT PAVING MATERIAL, SEE PLAN
- COMPACTED AGGREGATE BASE
- CAST-IN-PLACE CONCRETE
- COMPACTED AGGREGATE BASE
- COMPACTED SUBGRADE

1 DEDUCT ALT 2: ASPHALT PATH W/ FLUSH CONCRETE CURB
SCALE: 1 1/2" = 1'-0"



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STANDARD EROSION AND SEDIMENT CONTROL NOTES:

- 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.
- INLET PROTECTION SHOULD BE PROVIDED FOR ALL INLETS OWNED BY PWD THAT ARE LOCATED WITHIN ONE BLOCK OF THE PROJECT SITE.
- PWD IS NOT RESPONSIBLE FOR ANY CLEANING OR REPAIRS NEEDED ON CITY-OWNED INFRASTRUCTURE DUE TO FAILURE OF ANY EROSION AND SEDIMENT CONTROL PRACTICES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE FUNCTIONING IN ACCORDANCE WITH THE APPROVED PLANS.
- INSPECTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL OCCUR ON A WEEKLY BASIS, BEFORE ANY ANTICIPATED PRECIPITATION EVENTS, AND AFTER ALL PRECIPITATION EVENTS.
- THE MAXIMUM HEIGHT FOR STOCKPILES AREAS SHALL BE 20 FEET. THE MAXIMUM SIDE SLOPE FOR STOCKPILE AREAS SHALL NOT EXCEED 2:1.
- THE ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED ON-SITE. A STOCKPILE SHALL BE MAINTAINED ON-SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- FILTER FABRIC FENCE SHOULD BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION SHOULD BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. SUPPORT STAKES SHALL BE SPACED AT A MAXIMUM OF 8 FEET. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FILTER FENCE.
- ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.
- 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.
- 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.
- UNTIL THE SITE IS STABILIZED, ALL E&S BMP'S SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL E&S BMP'S 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 BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS OF THOSE INSTALLED, WILL BE REQUIRED.
- 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.
- 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.
- 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.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING, AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OF THE PROJECT UNTIL THE E&S BMP'S SPECIFIED BY THE BMP'S SEQUENCE FOR THAT STAGE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- A LOG SHOWING DATES THAT E&S BMP'S 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.
- ALL SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN THE FOLLOWING MANNER: REMOVAL AND DISPOSAL TO BE AT AN OFF-SITE LOCATION IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- 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.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED NINE INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. 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.

- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUB-AREA 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.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- E&S BMP'S SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP'S APPROVED BY PWD AND PA DEP.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMP'S MUST BE REMOVED OR CONVERTED TO PERMANENT POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE E&S BMP'S 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.
- 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. (WHEN APPLICABLE)
- DURING CONSTRUCTION, THE SELECTED CONTRACTOR IS EXPECTED TO FOLLOW THE PCSMP APPROVED BY PWD (WHERE APPLICABLE). NO CHANGE OR DEVIATION FROM THE APPROVED PCSMP IS PERMITTED WITHOUT PRIOR APPROVAL FROM PWD.
- 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.
- 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.
- 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.

SITE STABILIZATION METHODS (TEMPORARY & PERMANENT STABILIZATION)

- STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE.
- MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS MUST BE INSTALLED ON ALL SLOPES GREATER THAN 3:1.
- STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.

TEMPORARY SEEDING

- THE FOLLOWING SURFACES OF THE SITE SHALL BE TEMPORARILY SEEDED AND MULCHED:
 - THE SURFACE OF TOPSOIL STOCKPILES.
 - THE SURFACE OF EXPOSED EARTH AREAS THAT WILL BE EXPOSED WITHOUT CONSTRUCTION ACTIVITY THEREON.
- SEEDING SHALL OCCUR IMMEDIATELY AFTER ESTABLISHMENT OF THE TOPSOIL STOCKPILES OR ROUGH GRADED AREAS. THE FOLLOWING SHALL BE PLANTED:
 - 40 LBS./ACRE ANNUAL RYE GRASS -- COMMON, 100% P.L.S.
- PREPARE AREAS TO BE SEEDED AS FOLLOWS:
 - REMOVE ALL DEBRIS, INCLUDING LARGE STONES. APPLY LIME AT A RATE OF 3 TONS PER ACRE AND FERTILIZER AT THE RATE OF 50-50-50 PER ACRE AND WORK INTO SOIL.
 - SOW SEED AT THE INDICATED RATE. DIVIDE SEED INTO TWO EQUAL LOTS. SOW ONE LOT IN ONE DIRECTION. SOW SECOND LOT AT RIGHT ANGLE TO FIRST. RAKE SEEDED AREA SLIGHTLY. ROLL SURFACE LIGHTLY TO FIRM SOIL AROUND SEED.
- PLACE CLEAN DRY STRAW OR HAY MULCH WITHIN 48 HOURS AFTER SEEDING. PLACE AT THE RATE OF 3 TONS PER ACRE.
- SEEDING DATES SHALL BE BETWEEN MARCH 1 AND NOVEMBER 15.

TEMPORARY MULCHING

- MULCH PROPOSED LANDSCAPE AREAS OR TOPSOIL STOCKPILES IF EARTHWORK IS COMPLETED OUTSIDE OF THE RECOMMENDED PLANTING SEASONS FOR TEMPORARY SEEDING OR DUE TO UNFAVORABLE WEATHER CONDITIONS.
- MULCH SHALL BE APPLIED IMMEDIATELY FOLLOWING THE ESTABLISHMENT OF THE TOPSOIL STOCKPILE OR ROUGH GRADING.
- MULCH WITH SUITABLE FIBROUS GROUND, SHREDDED AGED HARDWOOD, PINE WOOD BARK OR STRAW, UNIFORMLY AND CONTINUOUSLY TO A LOOSE DEPTH OF 3 INCHES MINIMUM. ANCHOR AS REQUIRED.
- PROPERLY MAINTAIN MULCHED AREAS UNTIL PERMANENT STABILIZATION MEASURES ARE COMPLETE. REAPPLY MULCH MATERIALS WHICH BECOME DISLODGED AS INITIAL OR MODIFIED RATES AS NECESSARY. IF A SLOPE FAILURE OCCURS WHICH REQUIRES REDRESSING, EXCAVATION, OR THE ESTABLISHMENT OF A NEW SLOPE, REPLACE MULCH AS NECESSARY.

PERMANENT SEEDING

- PERMANENT SEEDING SHALL OCCUR IMMEDIATELY AFTER THE FINAL GRADING IS COMPLETED. THE FOLLOWING SEED SHALL BE PLACED UNLESS OTHERWISE SPECIFIED ON THE PLANS OR DIRECTED IN THE FIELD. THE FOLLOWING SEED MIX SHALL BE USED:
 - 40% PENNLAWN FINE FESCUE
 - 3% RED TOP
 - 20% CHAMPION PERENNIAL RYE GRASS QUANTITIES ARE OF PURE LIVE SEED (P.L.S.) SPREAD AT A RATE OF 63 LBS. PER ACRE.
- REMOVE ALL DEBRIS, INCLUDING LARGE STONES. TILL SOIL TO A DEPTH OF FOUR INCHES TO SIX INCHES. APPLY LIME AT A RATE OF 4 TONS PER ACRE. APPLY COMMERCIAL 10-20-20 FERTILIZER AT A RATE OF 930 LBS. PER ACRE. WORK FERTILIZER INTO TOP INCH OF SOIL.
- SEED ONLY AT THE FOLLOWING TIMES:
 - SPRING: MARCH 1 TO APRIL 30
 - LATE SUMMER/EARLY FALL: AUGUST 15 TO NOVEMBER 15

- DIVIDE SEED INTO TWO EQUAL LOTS. SOW ONE LOT IN ONE DIRECTION. SOW SECOND LOT AT RIGHT ANGLE TO FIRST LOT. RAKE SEEDED AREA SLIGHTLY. ROLL SURFACE LIGHTLY TO FIRM SOIL AROUND SEED.
- MULCH SEEDED AREAS WITH STRAW OR HAY AT THE RATE OF 3 TONS PER ACRE. ANCHOR MULCH. COMPLY WITH THE REQUIREMENTS OF SECTION 805 -- MULCHING, PENNDOT PUBLICATION 40B. ANCHOR MULCH AS SPECIFIED.
- MULCHING SHALL BE DONE AT THE MINIMUM RATE OF 3 TONS PER ACRE WITH SALT HAY, HAY OR STRAW MULCHES. PLACE MULCH IMMEDIATELY AFTER SEEDING OR WITHIN 48 HOURS AFTER SEEDING IS COMPLETED. PROPERLY MAINTAIN MULCHED AREAS UNTIL THE ENTIRE PROJECT HAS BEEN COMPLETED. PROMPTLY REAPPLY MULCH MATERIALS WHICH BECOME DISLODGED OR LOST DUE TO WIND, RAIN, OR OTHER CAUSES AT INITIAL RATES OR AS DIRECTED.
- LIQUID MULCH BINDERS MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCHES.
 - APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH IN VALLEYS AND AT CRESTS OF BANKS. REMAINDER OF AREAS SHOULD BE UNIFORM IN APPEARANCE.
 - USE ONE OF THE FOLLOWING: EMULSIFIED ASPHALT. CLASS E-1 OR E-6. APPLY 31 GALLONS PER 1,000 SQUARE YARDS ON SLOPES LESS THAN 8 FEET HIGH. ON SLOPES 8 FEET HIGH OR MORE, USE 58 GALLONS PER 1,000 SQUARE YARDS. CUTBACK ASPHALT. CLASS RC-250. APPLY 31 GALLONS PER 1,000 SQUARE YARDS ON FLAT AREAS AND ON SLOPES LESS THAN 8 FEET HIGH. ON SLOPES 8 FEET HIGH OR MORE, USE 58 GALLONS PER 1,000 SQUARE YARDS. NON-ASPHALTIC EMULSION -- NATURAL VEGETABLE GUM BLENDED WITH GELLING AND HARDENING AGENTS (TERRA TACK, AR) AS MANUFACTURED BY GRASS GROWERS COMPANY OR EQUAL. APPLY 25 LBS. PER 1,000 SQUARE YARDS.

MAINTENANCE PROGRAM

- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION STABILIZATION, AND MAINTENANCE OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN THIS PLAN. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR THE PROPER CONSTRUCTION AND STABILIZATION OF PERMANENT CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN THIS PLAN.
- THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL PERMANENT CONTROL MEASURES.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE DONE IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS TO THOSE INSTALLED WILL BE REQUIRED.
- SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF AT AN OFF-SITE LOCATION IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- SOIL SEDIMENT REMOVED FROM SILT FENCE DURING REGULAR MAINTENANCE WILL BE INCORPORATED BACK INTO THE EARTHWORK AS FILL ON THE SITE. SOIL SEDIMENT MATERIAL SHALL BE DISTRIBUTED ON-SITE WITHOUT CHANGING DRAINAGE PATTERNS DURING A SPECIFIC CONSTRUCTION STAGE. SILT FENCE INSTALLED ON THE PROJECT SITE SHALL BE MAINTAINED AS FOLLOWS:
 - THE FENCE CONDITION WILL BE INSPECTED ONCE A WEEK OR AFTER EVERY STORM EVENT, WHICHEVER COMES FIRST. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY.
 - ACCUMULATED SEDIMENTS WILL BE REMOVED AS REQUIRED TO KEEP THE FENCE FUNCTIONAL. DEPOSITS WILL BE REMOVED WHERE ACCUMULATIONS REACH ONE-HALF THE ABOVE-GROUND HEIGHT OF THE FENCE.
 - UNDERCUTTING OR EROSION OF THE TOE ANCHOR WILL BE REPLACED IMMEDIATELY WITH ROCK FILTER OUTLETS.
 - ANY MANUFACTURER'S RECOMMENDATIONS WILL BE ADHERED TO WHEN REPLACING FILTER FABRIC FENCE DUE TO WEATHERING.
- AT THE END OF EACH CONSTRUCTION DAY, ANY SEDIMENT DEPOSITED ON PUBLIC ROADWAYS, WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER WILL NOT BE PERMITTED.
- OTHER BMP'S
 - SEDIMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION AFTER EACH RUNOFF EVENT.

EROSION AND SEDIMENT CONTROL (E&S) NOTES:

- EXISTING CONCRETE AND BITUMINOUS PAVING TO BE SAW-CUT ALONG LIMIT OF DISTURBANCE LINE WITH A CLEAN CUT LINE TO A SUFFICIENT DEPTH TO ALLOW THE REMOVAL OF PAVING WITHOUT DISTURBING THE EXISTING PAVING THAT IS TO REMAIN.
- THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION AND SHALL SAFELY AND LEGALLY DISPOSE OF ALL THESE ITEMS IN ACCORDANCE WITH APPLICABLE LOCAL, FEDERAL, STATE AND REGULATORY AUTHORITY HAVING JURISDICTION. RECYCLING MUST BE DONE IN ACCORDANCE WITH APPLICABLE REGULATIONS. BURNING OF ANY DEMOLISHED MATERIALS ON-SITE SHALL NOT BE PERMITTED. RECYCLING OF DEMOLITION DEBRIS SHALL BE APPROVED BY THE OWNER. ALL EXISTING FILL TO BE REMOVED FROM SITE IN ACCORDANCE WITH THE PA DEP MANAGEMENT OF FILL POLICY AND REGULATIONS.
- COMPOST FILTER SOCK ON PAVING TO BE WEIGHTED DOWN BY OBJECTS OF CONSIDERABLE MASS (SAND BAGS, CONCRETE BLOCK OR OTHER SUITABLE MATERIAL). COMPOST FILTER SOCK TO BE INSTALLED DOWNSTREAM OF ALL EARTH MOVING ACTIVITIES.
- INLET PROTECTION IN ROADWAYS NOT TO INCLUDE STONE OR BERMS FOR ROADWAY MAINTENANCE PURPOSES.
- MAXIMUM HEIGHT FOR STOCKPILE AREAS TO BE 20 FEET. THE MAXIMUM SIDE SLOPE FOR STOCKPILE AREAS NOT TO EXCEED 2:1.
- RUMBLE PAD CONSTRUCTION ENTRANCE TO BE SIZED IN ACCORDANCE WITH PA DEP MINIMUM REQUIREMENTS OF 50' X 20' AND BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.
- CONSTRUCTION, DEMOLITION AND EARTHWORK DUST CONTROL TO BE COMPLETED IN ACCORDANCE WITH THE CITY OF PHILADELPHIA DUST CONTROL REQUIREMENTS (AIR MANAGEMENT REGULATION (AMR) II, SECTION IX.) AND TO INCLUDE BUT NOT LIMITED TO:
 - NOTIFY OCCUPANTS OF NEARBY PROPERTIES, IN WRITING 10 DAYS BEFORE ENGAGING IN EARTHWORK, CONSTRUCTION AND DEMOLITION ACTIVITIES.
 - USE OF VACUUM OR SIMILAR SUCTION SYSTEMS TO CAPTURE DUST KICKED UP BY POWER TOOLS WHEN GRINDING OR CUTTING.
 - APPLICATION OF WATER OR APPROVED DUST CONTROL SUPPRESSANT DURING EXCAVATION, DEMOLITION AND/OR CONSTRUCTION TO SUPPRESS DUST FORMATION.
 - COVERING AND WETTING OF STOCKPILES EARTH, SAND, GRAVEL AND OTHER SIMILAR CONSTRUCTION MATERIALS.
 - ALL PERIMETER FENCING MUST HAVE DUST CONTROL FABRIC AND MUST MEASURE A MINIMUM OF 5 FT IN HEIGHT FROM THE BOTTOM OF FENCING.
 - 10 MILE PER HOUR SPEED LIMIT FOR ALL EQUIPMENT AND TRUCKS TRAVELING WITHIN THE WORK SITE.
 - WETTING AND SWEEPING OF ROADWAYS / ACCESS ROAD IN A WORK SITE TO PREVENT DUST FORMATION.
- PERMANENT INLET PROTECTION TO BE INSTALLED ON ALL INLETS THAT DRAIN TO THE UNDERGROUND STORMWATER MANAGEMENT SYSTEMS IN ACCORDANCE WITH THE SPECIFICATIONS.

CONSTRUCTION SEQUENCE:

- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN EARTH MOVING ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE CITY OFFICIALS, THE EROSION AND SEDIMENT CONTROL PREPARER, AND REPRESENTATIVE OF THE CITY OF PHILADELPHIA EROSION AND SEDIMENT CONTROL OFFICE TO AN ON-SITE MEETING. INCLUDE A REPRESENTATIVE FROM PWD'S EROSION AND SEDIMENT CONTROL INSPECTION GROUP BY CONTACTING THE INSPECTIONS COORDINATOR OF PWD (OFFICE 215-685-6387).
- AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITY LOCATIONS.
- CONSTRUCTION FENCE TO BE INSTALLED WHERE NEEDED TO PROTECT THE PUBLIC FROM LAND DISTURBANCE ACTIVITIES AND TO MAINTAIN PEDESTRIAN ACCESS.
- INSTALL COMPOST FILTER SOCK DOWNHILL FROM ALL EARTH MOVING ACTIVITIES. COMPOST FILTER SOCK OR OTHER EROSION CONTROL PRACTICES SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE AS SHOWN ON THE PLAN.
- INSTALL INLET PROTECTION AS SHOWN ON THE PLAN. EXISTING INLETS SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE CONSTRUCTION.
- INSTALL CONSTRUCTION ENTRANCE AS SHOWN AND IN ACCORDANCE WITH THE CONSTRUCTION ENTRANCE DETAIL.
- CONTRACTOR SHALL PROVIDE PROTECTION OF ANY EXISTING UTILITIES, SURFACE FEATURES AND PAVEMENTS THAT ARE TO REMAIN THROUGHOUT THE DURATION OF PROJECT CONSTRUCTION.
- CLEAR SITE WITHIN LIMIT OF DISTURBANCE AREA, DEMOLISH EXISTING ASPHALT AND CONCRETE PAVING, PLAYGROUND EQUIPMENT, AND TREES MARKED FOR REMOVAL. SAWCUT PAVED AREAS AS NEEDED TO MINIMIZE EARTH DISTURBANCE. DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISCARDED IN ACCORDANCE WITH APPLICABLE CITY, STATE AND FEDERAL REGULATIONS.
- EXCAVATE AND INSTALL PROPOSED METER PIT AND BACKFLOW PREVENTER PAD AS SHOWN ON THE PLANS.
- EXCAVATE TRENCHES FOR PROPOSED WATER SERVICE CONNECTION.
- INSTALL NEW WATER SERVICE LATERAL AS SHOWN ON THE PLANS.
- INSTALL PROPOSED PLAYGROUND EQUIPMENT, BENCHES, SPRAYGROUND EQUIPMENT, AND DRINKING FOUNTAIN AS SHOWN ON THE PLANS.
- ROUGH GRADE REMAINING SUBBASE TO REQUIRED DEPTHS.
- AS SOON AS SLOPES, CHANNEL DITCHES AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED. CESSATION OF ACTIVITY FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.
- CONSTRUCT FULL DEPTH PAVEMENT AS SHOWN ON THE PLANS.
- TOPSOIL AND SEED GRADED AREAS, INSTALL PLANTS, TREES, AND MULCH AS REQUIRED.
- SWEEP PAVED AREAS DAILY TO PREVENT TRACKING OF SOIL OFF-SITE.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE CONTRACTOR AND/OR OPERATOR SHALL CONTACT INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) FOR A FINAL INSPECTION PRIOR TO REMOVAL ON THE E&S BMP'S.
- REMOVE SOIL EROSION MEASURES AFTER SITE HAS BEEN INSPECTED AND STABILIZED.

MAINTENANCE NOTES:

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEDED AS NEEDED.
- COMPOST FILTER SOCKS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE-HALF THE HEIGHT OF THE EXPOSED COMPOST FILTER SOCK.
- THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCE AS CONDITIONS DEMAND.
- BMPs ARE TO BE INSPECTED ON A WEEKLY BASIS AND AFTER STORMWATER EVENTS. INSPECTIONS ARE TO BE LOGGED, DATED AND KEPT ON-SITE AT ALL TIMES.

REVISIONS		NO.	DATE	DESCRIPTION



Philadelphia + Chicago
porturbanism.com

1315 Walnut Street,
Suite 1108
Philadelphia, PA. 19107

CIVIL ENGINEER
KS Engineers, P.C.
530 Walnut Street,
Suite 460
Philadelphia, PA. 19106

MEP ENGINEER
Arora Engineers, Inc.
61 Wilmington-West
Chester Pike
Chadds Ford, PA 19317

**COBBS CREEK
PLAYGROUND
PHILADELPHIA, PA**

STAMP:
FRANK ANTHONY FREGA
PA P.E. LICENSE NO. PE041602R

JOB NO: 2131
DATE: 07/22/2022
DRAWN: RDC
CHECKED: RSB
DRAWING TITLE:
E&S
CONTROL
NOTES
DRAWING NO:
C-251
SHEET 17 OF 22

KSE
KS ENGINEERS, P.C.
ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS
630 WALNUT STREET SUITE 460
PHILADELPHIA, PENNSYLVANIA 19106
PHONE: 215.925.0425 • FAX: 215.925.0430

ELECTRICAL GENERAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS ADOPTED BY MUNICIPAL, COUNTY, STATE, AND FEDERAL AUTHORITIES, INCLUDING THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) NFPA 70, AND WITH THE REQUIREMENTS/AMENDMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
- CONTRACTOR SHALL COORDINATE EXISTING SECURITY SYSTEM INFRASTRUCTURE, FINAL INSTALLATION, AND REQUIRED DEVICE/EQUIPMENT FOR A FULLY OPERATIONAL SYSTEM WITH THE SECURITY SYSTEM (FIDELITY ALARM) REPRESENTATIVE FOR THE NEW SECURITY CAMERA INSTALLATION PRIOR TO BIDDING.
- CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO CONVEY SCOPE, DESIGN INTENT, AND GENERAL ARRANGEMENT ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK OF ALL TRADES INCLUDING RESOLUTION OF FIELD CONFLICTS THAT MAY ARISE.
- WIREWAY, JUNCTION AND PULL BOXES ARE NOT NECESSARILY INDICATED, BUT SHALL BE PROVIDED WHERE MANDATED BY THE NEC, AND AS REQUIRED FOR EASE OF INSTALLATION. BOXES SHALL BE SIZED (MINIMUM) IN ACCORDANCE WITH NEC ARTICLE 314. TROUGHS SHALL BE SIZED PER NEC ARTICLE 376.
- PROVIDE A DEDICATED NEUTRAL FOR ALL 120V CIRCUITS.
- VERIFY EXACT LOCATION OF ALL EQUIPMENT WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND LOCATIONS OF FINISHED CONSTRUCTION PRIOR TO FABRICATION AND INSTALLATION OF FIXTURES AND EQUIPMENT. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER.
- EXISTING CONDITIONS AND UTILITIES INDICATED ARE TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS, VARIOUS SURVEYS AND FIELD INVESTIGATIONS. CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC., PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
- LOCATE ALL EXISTING UTILITIES AND PROTECT THEM FROM DAMAGE.
- ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL, CONNECT AND MAINTAIN TEMPORARY ELECTRICAL SERVICES AND LIGHTING THROUGHOUT THE ENTIRE PROJECT AREA WHERE REQUIRED BY OTHER TRADES UNTIL NEW, PERMANENT SERVICES ARE INSTALLED. CONTRACTOR SHALL RELOCATE OR OTHERWISE MODIFY TEMPORARY SERVICES AS MANY TIMES AS NECESSARY FOR THE WORK OF ALL CONTRACTORS TO PROCEED UNTIL COMPLETION OF THE PROJECT. ALL TEMPORARY ELECTRICAL WIRING AND/OR ELECTRICAL DEVICES SHALL HAVE GROUND FAULT PROTECTION DURING THE ENTIRE CONSTRUCTION PROJECT LENGTH. THE INSTALLATION AND MAINTENANCE OF ALL TEMPORARY SERVICES SHALL COMPLY WITH APPLICABLE NEC AND OSHA REQUIREMENTS.
- CONTRACTOR SHALL, UPON COMPLETION OF THE WORK, SUBMIT AS-BUILT RECORD DRAWINGS SHOWING ALL CHANGES FROM THE CONTRACT DRAWINGS MADE DURING THE INSTALLATION. DIMENSION LOCATIONS OF CONCEALED EQUIPMENT.
- UNLESS OTHERWISE NOTED, ALL PARTS, EQUIPMENT, MATERIALS SHALL BE NEW AND FROM SAME MANUFACTURER AND UL LISTED.
- UPON COMPLETION OF WORK, CONTRACTOR SHALL THOROUGHLY CLEAN ALL WORK AREAS AND EQUIPMENT AS REQUIRED.
- COORDINATE ALL CONDUIT ROUTING WITH EXISTING CONDITIONS AND UTILITIES.
- ALL EXPOSED CONDUITS SHALL BE RGS UNLESS OTHERWISE NOTED.
- PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT, RACEWAYS AND LABEL AT EACH END.
- ALL CONDUCTORS INCREASED IN SIZE FOR VOLTAGE DROP CONSIDERATION SHALL BE SPLICED TO APPROPRIATE SIZE CONDUCTORS FOR TERMINATING ONTO EQUIPMENT AND DEVICES. SPLICES SHALL BE MADE INSIDE THE EQUIPMENT AS ALLOWED BY THE NEC OR AT THE CLOSEST JUNCTION BOX TO THE EQUIPMENT OR DEVICE. THE SPLICED CONDUCTOR SHALL BE SIZED AS THE LARGEST ACCEPTABLE CONDUCTOR BASE ON THE TERMINATION OF THE EQUIPMENT OR DEVICE.
- CALL BEFORE YOU DIG (PA ONE CALL SYSTEM 1-800-242-1776 OR DIAL 811). ELECTRICAL CONTRACTOR TO HIRE AN INDEPENDENT UTILITY LOCATING COMPANY TO MARK-OUT CUSTOMER OWNED/PRIVATE PROPERTY FACILITIES BEFORE DIGGING AT ELECTRICAL CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL DETERMINE THE EXTENT, EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND UNDERGROUND VAULTS PRIOR TO COMMENCING WORK.
- ALL CONDUCTORS SHALL BE COLOR-CODED, SINGLE CONDUCTOR, COPPER WIRE OF THE SPECIFIED SIZE, 600V, TYPE XHHW/XHHW-2 INSULATION, #12 AWG MINIMUM, UNLESS NOTED OTHERWISE.
- THE ELECTRICAL CONTRACTOR HAS FULL RESPONSIBILITY FOR MEETING WITH THE LOCAL ELECTRIC UTILITY AND COORDINATING WITH THE LOCAL ELECTRIC UTILITY COMPANY'S REQUIREMENTS BEFORE INSTALLATION BEGINS.

CONVENTIONS:

- ELECTRICAL EQUIPMENT DESIGNATED BY SOLID HEAVY LINE WEIGHT INDICATES NEW WORK TO BE FURNISHED AND INSTALLED.
- ELECTRICAL EQUIPMENT DESIGNATED BY SOLID LIGHT LINE WEIGHT INDICATES EXISTING EQUIPMENT TO REMAIN, UNLESS OTHERWISE INDICATED.
- ELECTRICAL EQUIPMENT DESIGNATED BY DASHED HEAVY LINE WEIGHT REPRESENTS EXISTING EQUIPMENT TO BE REMOVED AND DISPOSED, UNLESS INDICATED TO BE REMOUNTED, RELOCATED, OR TURNED OVER TO OWNER.

ELECTRICAL LINE TYPE:

- UNDERGROUND DUCTBANK AND CONDUCTOR, (FURNISH AND INSTALL)

ELECTRICAL SYMBOLS:

- DUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V
- DUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V WITH (GFCI) GROUND FAULT CURRENT INTERRUPTER PROTECTION
- DUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V WITH (GFCI) GROUND FAULT CURRENT INTERRUPTER PROTECTION IN A WEATHER-PROOF ENCLOSURE
- SIMPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V
- QUADRUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V
- 20A, 120/277 VAC, SINGLE POLE TOGGLE SWITCH
- WEATHER PROOF SWITCH
- MANUAL MOTOR RATED SWITCH
- NON-FUSIBLE DISCONNECT SWITCH, SIZE AS NOTED
- COMBINATION MAGNETIC STARTER, SIZE AS REQUIRED BY NEC
- FUSIBLE DISCONNECT SWITCH, SIZE AS NOTED
- LOOP LINE INDICATES CIRCUIT CONDUCTORS AND CONDUIT CONNECTING IDENTIFIED DEVICES.
- INDICATES HOMERUN CIRCUIT CONDUCTORS AND CONDUIT CONNECTING IDENTIFIED DEVICES TO PANEL
- ENCLOSED CIRCUIT BREAKER BOX
- JUNCTION BOX
- TRANSFORMER
- SURFACE MOUNTED PANELBOARD
- CIRCUIT BREAKER, RATINGS AS INDICATED
- PHOTO CELL
- ELECTRICAL HANDHOLE 24" L x 24" W x 12" D, TIER 15 RATED PRECAST CONCRETE
- FIXED CCTV SURVEILLANCE CAMERA COORDINATE FINAL SELECTION WITH REBUILD/PPR REPRESENTATIVE PRIOR TO ORDERING

LIGHT SYMBOLS:

- POLE MOUNTED LIGHT FIXTURE, TYPE AS NOTED

ELECTRICAL ABBREVIATIONS:

- A, AMP AMPERES
- AC ALTERNATING CURRENT
- AFCI ARC FAULT CIRCUIT INTERRUPTER
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHU AIR HANDLING UNIT
- AIC AMP INTERRUPTING CAPACITY
- AT AMP TRIP
- AF AMP FRAME
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- BKR BREAKER
- C, CND CONDUIT
- C.B. CIRCUIT BREAKER
- CKT CIRCUIT
- COMM COMMUNICATION
- CU COPPER
- DC DIRECT CURRENT
- DWG DRAWING
- (E) EXISTING WORK/EQUIPMENT TO REMAIN
- (ER) EXISTING WORK/EQUIPMENT TO BE REMOVED AND RELOCATED
- EC ELECTRICAL CONTRACTOR
- ELEC ELECTRICAL
- EQUIP EQUIPMENT
- EM EMERGENCY
- EMT ELECTRICAL METALLIC TUBING
- FT FOOT (FEET)
- G, GND GROUND
- GFCI, GFI GROUND FAULT CIRCUIT INTERRUPTER
- HZ HERTZ
- HOA HAND OFF AUTO SWITCH
- JB JUNCTION BOX
- KA KILO AMPERES
- KAIC KILO AMPERES INTERRUPTING CURRENT
- KVA KILO VOLTS AMPERES
- KW KILOWATTS
- LFMC LIQUID TIGHT FLEXIBLE METAL CONDUIT
- MC MECHANICAL CONTRACTOR
- MCB MAIN CIRCUIT BREAKER
- MCA MAXIMUM CIRCUIT AMPACITY
- MIN MINIMUM
- MISC MISCELLANEOUS
- MLO MAIN LUG ONLY
- MOCP MAXIMUM OVER CURRENT PROTECTION
- MOCD MAXIMUM OVER CURRENT PROTECTIVE DEVICE
- (N) NEW
- NEC NATIONAL ELECTRIC CODE
- NIC NOT IN CONTRACT
- NTS NOT TO SCALE
- P POLE
- PH, Ø PHASE
- PNL PANEL
- PWR POWER
- (R) EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED
- (RE) RELOCATED EXISTING WORK
- RCPT RECEPTACLE
- RGS RIGID GALVANIZED STEEL
- RMC RIGID METAL CONDUIT
- RM ROOM
- RNC RIGID NON-METALLIC CONDUIT
- SCCR SHORT CIRCUIT CURRENT RATING
- SER SERVICE ENTRANCE RATED
- SPECS SPECIFICATIONS
- TYP. TYPICAL
- UE UNDERGROUND ELECTRIC
- UON UNLESS OTHERWISE NOTED
- V VOLTS
- VIF VERIFY IN FIELD
- WP WEATHER PROOF
- XFMR TRANSFORMER

REVISIONS	NO.	DATE	DESCRIPTION

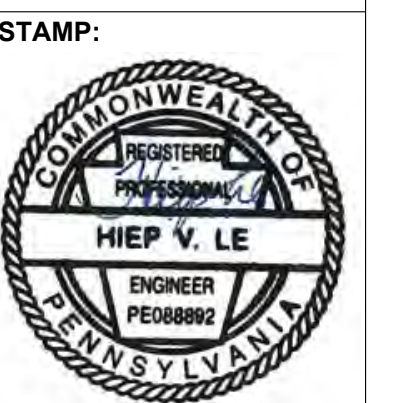
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1315 Walnut Street,
Suite 1108
Philadelphia, PA. 19107

CIVIL ENGINEER
KS Engineers, P.C.
530 Walnut Street,
Suite 460
Philadelphia, PA. 19106

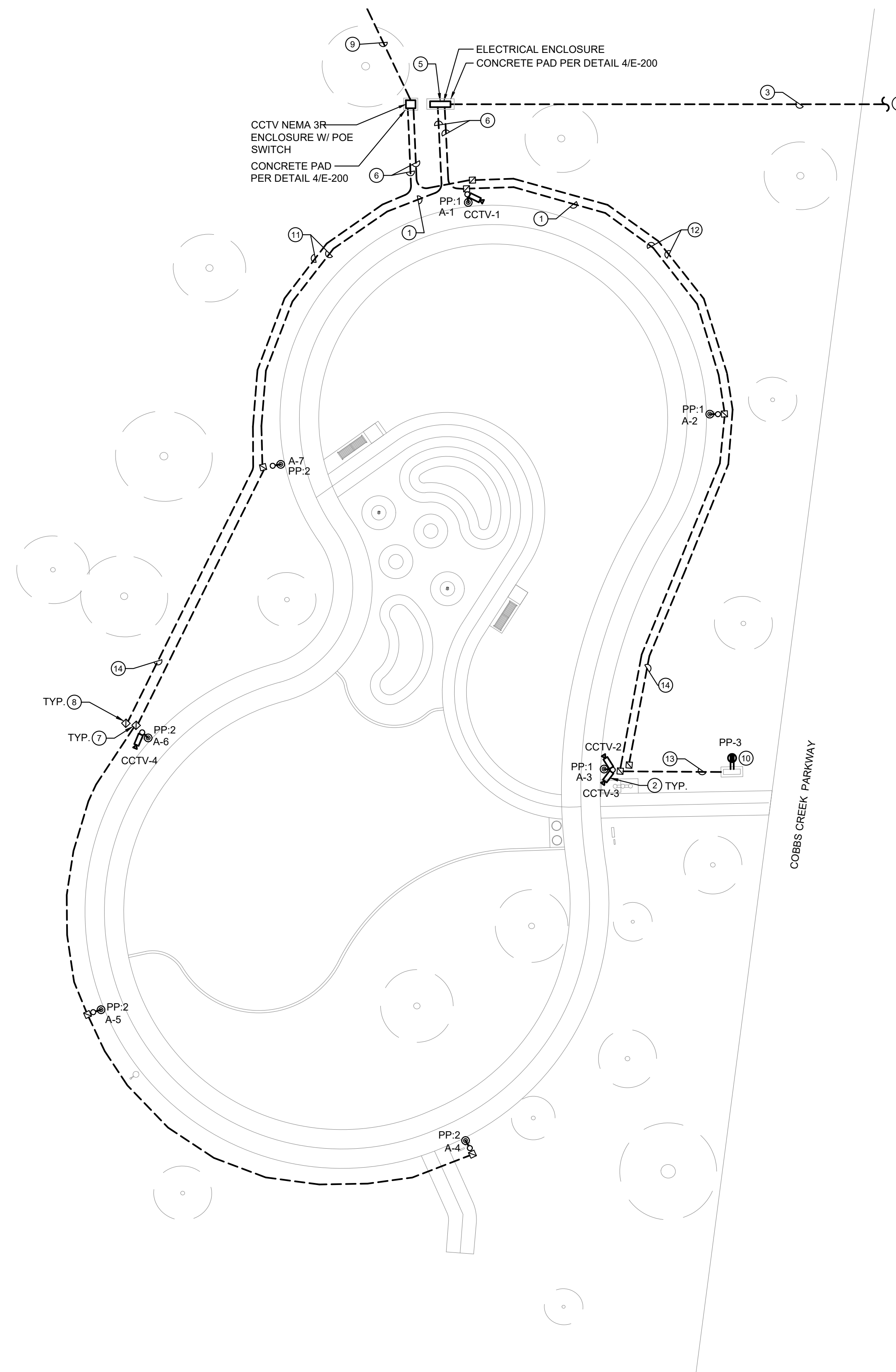
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Arora Engineers, Inc.
61 Wilmington-West
Chestnut Pike
Chadds Ford, PA 19317

**COBBS CREEK
PLAYGROUND
PHILADELPHIA, PA**



JOB NO: 2131
DATE: 07/22/2022
DRAWN: TM
CHECKED: HL
DRAWING TITLE:
GENERAL NOTES,
SYMBOLS AND
ABBREVIATIONS

DRAWING NO:
E-000



1 ELECTRICAL SITE PLAN
E-100 Scale: 1/16" = 1'-0"

GENERAL NOTES:

1. REFER TO DRAWING E-000 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. COORDINATE ALL NEW WORK WITH REBUILD/PPR REPRESENTATIVE PRIOR TO START OF WORK.
3. REFER TO DRAWING E-200 FOR DETAILS AND E-300 FOR PANEL SCHEDULE.
4. ALL CONDUCTORS SHALL BE COLOR-CODED, SINGLE CONDUCTOR, COPPER WIRE OF THE SPECIFIED SIZE, 600V, TYPE XHHW/XHHW-2 INSULATION, UNLESS NOTED OTHERWISE.
5. ALL SERVICE RELATED WORK TO BE DONE IN STRICT ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
6. ALL SERVICE EQUIPMENT SHALL BE LISTED FOR SERVICE ENTRANCE USE.
7. COORDINATE ALL SERVICE CHANGES WITH PECO.
8. EC SHALL COORDINATE WITH LIGHTING FIXTURE MANUFACTURER FOR CONNECTION REQUIREMENTS OF LIGHTING FIXTURES (IE. QUICK DISCONNECT) AND SHALL MAKE ALL WIRING CONNECTIONS AS REQUIRED.
9. COORDINATE FINAL UNDERGROUND CONDUIT ROUTING AND WIRING INSTALLATION FROM ENVIRONMENT CENTER BUILDING TO SECURITY CAMERAS MOUNTED ON LIGHT POLES WITH SECURITY SYSTEM REPRESENTATIVE PRIOR TO COMMENCING WORK.
10. COORDINATE WITH SECURITY SYSTEM REPRESENTATIVE FOR FINAL DEVICES/EQUIPMENT SELECTIONS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM PRIOR TO COMMENCING WORK. VIDEO SURVEILLANCE SYSTEM SHALL BE INTEGRATED WITH EXISTING PPR NETWORK EQUIPMENT.
11. INSTALL ALL WIRING IN SCHEDULE 80 PVC CONDUIT. ALL UNDERGROUND INSTALLATION SHALL COMPLY WITH NEC 300.5.
12. CALL BEFORE YOU DIG (PA ONE CALL SYSTEM 1-800-242-1776 OR DIAL 811). ELECTRICAL CONTRACTOR TO HIRE AN INDEPENDENT UTILITY LOCATING COMPANY TO MARK-OUT CUSTOMER OWNED/PRIVATE PROPERTY FACILITIES BEFORE DIGGING AT ELECTRICAL CONTRACTOR'S EXPENSE.

KEYED NOTES:

- 1 FURNISH AND INSTALL 2#10 AND 1#10G IN 1" PVC CONDUIT.
- 2 MOUNT SECURITY CAMERA TO POLE 12' AFG. COORDINATE EXACT PLACEMENT AND ORIENTATION WITH SECURITY SYSTEM REPRESENTATIVE PRIOR TO COMMENCING WORK.
- 3 FURNISH AND INSTALL 3#4/0 IN 2 1/2" PVC CONDUIT. ALL WIRE AND CONDUIT SHALL ROUTE THROUGH UNDERGROUND IN DUCT BANK. REFER TO DETAIL 5/E-200 FOR TYPICAL DUCT BANK DETAIL.
- 4 CONTRACTOR TO COORDINATE FINAL SERVICE REQUIREMENTS WITH PECO. REFER TO DETAIL 1/E-200 FOR MORE INFORMATION.
- 5 FURNISH AND INSTALL STAINLESS STEEL ENCLOSURE. COORDINATE FINAL LOCATION IN FIELD WITH PECO AND REBUILD/PPR REPRESENTATIVE. REFER TO DETAIL 1/E-200 FOR ENCLOSURE, ELECTRICAL EQUIPMENT AND POWER CONNECTIONS.
- 6 REFER TO DETAIL 6/E-200 FOR TYPICAL 2-WAY DUCT BANK.
- 7 FURNISH AND INSTALL 16" L X 16" W X 12" D TIER 15 HANDHOLE AT THE LIGHT FIXTURE POLE. PROVIDE TERMINAL BLOCK INSIDE HANDHOLE TO TERMINATE WIRE SIZE FOR LIGHT FIXTURE. MAKE FINAL CONNECTION TO LIGHT FIXTURE. REFER TO DETAIL 3/E-200 FOR MORE INFORMATION.
- 8 FURNISH AND INSTALL 16" L X 16" W X 12" D TIER 15 HANDHOLE AT THE LIGHT FIXTURE POLE. MAKE FINAL CONNECTION TO CAMERAS.
- 9 EXTEND SPARE FIBER FROM CCTV UNDERGROUND PULLBOX BOX TO NEW CCTV ENCLOSURE IN NEW UNDERGROUND 1" CONDUIT. VERIFY IN FIELD EXACT LOCATION OF EXISTING UNDERGROUND PULLBOX WITH SECURITY SYSTEM REPRESENTATIVE.
- 10 PROVIDE GFCI RECEPTACLE WITH WEATHERPROOF ENCLOSURE FOR SELF-REGULATING HEATING CABLE. REFER TO MANUFACTURER INSTALLATION MANUAL FOR RECOMMENDED RECEPTACLE LOCATION. PROVIDE 2 #10 & 1 #10GRD. IN 1" CONDUIT.
- 11 REFER TO DETAIL 7/E-200 FOR TYPICAL 2-WAY ELEC/COMM DUCT BANK.
- 12 REFER TO DETAIL 8/E-200 FOR TYPICAL 3-WAY ELEC/COMM DUCT BANK.
- 13 REFER TO DETAIL 5/E-200 FOR TYPICAL 3-WAY ELEC/COMM DUCT BANK.
- 14 FURNISH AND INSTALL DATA CABLE IN 1" PVC CONDUIT FROM CCTV ENCLOSURE TO CAMERAS. COORDINATE EXACT CABLE TYPE & QUANTITY WITH SECURITY SYSTEM REPRESENTATIVE.

REVISIONS	NO.	DATE	DESCRIPTION

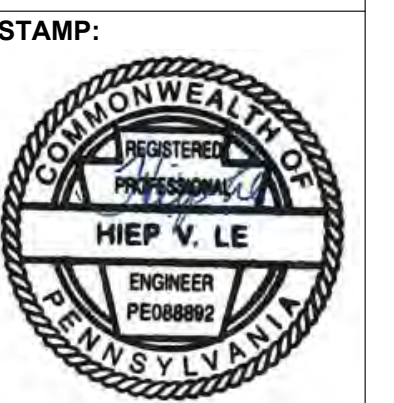
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1315 Walnut Street,
Suite 1108
Philadelphia, PA. 19107

CIVIL ENGINEER
KS Engineers, P.C.
530 Walnut Street,
Suite 460
Philadelphia, PA. 19106

MEP ENGINEER
Arora Engineers, Inc.
611 Wilmington-West
Chester Pike
Chadds Ford, PA 19317

**COBBS CREEK
PLAYGROUND
PHILADELPHIA, PA**



JOB NO: 2131
DATE: 07/22/2022
DRAWN: TM
CHECKED: HL
DRAWING TITLE:
ELECTRICAL SITE PLAN

DRAWING NO:
E-100

SHEET 20 OF 22

GENERAL NOTES:

- REFER TO DRAWING E-000 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- COORDINATE ALL NEW WORK WITH REBUILD/PPR REPRESENTATIVE PRIOR TO START OF WORK.
- ALL CONDUCTORS INCREASED IN SIZE FOR VOLTAGE DROP CONSIDERATION SHALL BE SPLICED TO APPROPRIATE SIZE CONDUCTORS FOR TERMINATING ONTO EQUIPMENT AND DEVICES. SPLICES SHALL BE MADE INSIDE THE EQUIPMENT AS ALLOWED BY THE NEC OR AT THE CLOSEST JUNCTION BOX TO THE EQUIPMENT OR DEVICE. THE SPLICED CONDUCTOR SHALL BE SIZED AS THE LARGEST ACCEPTABLE CONDUCTOR BASE ON THE TERMINATION OF THE EQUIPMENT OR DEVICE.

PANEL SCHEDULE 'PP'													
PANEL: PP		INTERRUPTING RATING: 42 KAIC				MOUNTING: SURFACE							
VOLTAGE: 240/120V		PHASE: 1		WIRE: 3		BUS AMPS: 100A		MAIN: 60A MCB					
NEMA 3R		NEUTRAL: 100%		LOCATION: ELEC ENCLOSURE									
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	VA / PHASE		VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
						A	B						
1	POLE LTG 1,2,3	#10	1	20	99	231		132	20	1	#10	POLE LTG 4,5,6,7	2
3	BACKFLOW PREVENTER HOTBOX	#10	1	20	1200		2925	1725	20	1	#12	FIELD BOX HEATER	4
5	ASTRONOMIC TIMER CONTROL	#12	1	20	100	200		100	20	1	#12	FIELD BOX LIGHT	6
7	CCTV ENCLOSURE	#12	1	20	200		380	180	20	1	#12	FIELD BOX RECEPTACLE	8
9	SPARE	-	1	20	0	0		0	20	1	-	SPARE	10
11	SPARE	-	1	20	0		0	0	20	1	-	SPARE	12
13	SPARE	-	1	20	0	0		0	20	1	-	SPARE	14
15	SPACE	-	-	-	0		0	0	-	-	-	SPACE	16
17	SPACE	-	-	-	0	0		0	-	-	-	SPACE	18
NOTES: 1. PROVIDE SERVICE ENTRANCE RATED PANELBOARD						TOTALS							
						431	3305						
						3736 VA		15.57 AMPS					

LUMINAIRE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NO.	LAMP INFORMATION				REMARKS
						TYPE	WATTS	VOLTS	LUMENS	
⊙	A	LED LIGHT POLE. CONTROL VIA PHOTOCELL AND ASCO RELAY PANEL	POLE	SELUX CORPORTATION	DSC4LX-DG-XX-MP350-30-XX-XX	LED	33	120	3398	MOUNT LUMINAIRE TO POLE 14' AFG.

NOTE:
1. COORDINATE FINAL SELECTIONS, FINISHES, AND COLOR TEMPERATURE WITH REBUILD/PPR REPRESENTATIVE.

REVISIONS	NO.	DATE	DESCRIPTION



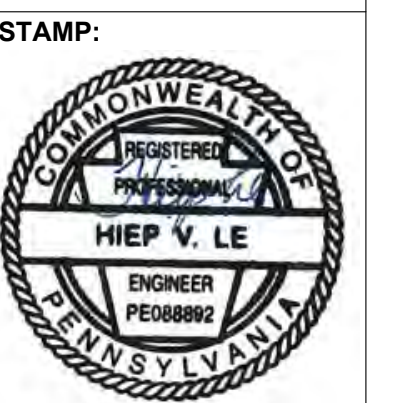
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DRAWING TITLE:

SCHEDULES

DRAWING NO:
E-300

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