

## ADDENDUM COVER SHEET

### Addendum No. 1

#### Cobbs Creek Playground (700 Cobbs Creek Parkway)

#### Philadelphia Redevelopment Authority

Issue Date: August 18, 2022

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#### Items:

The following items are to be issued as part of Addendum 01 for **Cobbs Creek Playground**:

1. Responses to Contractor questions. See attachment for responses.
2. Specifications:
  - a. 000110 – Table of Contents
    - i. Added: “282300 – Video Surveillance”
  - b. 012200 – Unit Prices
    - i. Added: “7. Offsite disposal of unclassified material”
  - c. 282300 – Video Surveillance
    - i. Added.
3. Drawings (entire construction set re-submitted):
  - a. L-100 – Tree Protection and Demo Plan
    - i. Added limit of work line.
    - ii. Added note to remove, salvage and relocate existing sign for construction entrance.
  - b. L-101 Overall Site Plan
    - i. Added site plan note 6.
  - c. L-102 Materials, Furnishings & Equipment Plan
    - i. Added limit of work plan.
  - d. L-103 Layout Plan
    - i. Added limit of work line.
  - e. L-105 Layout Plan
    - i. Added limit of work line.
  - f. L-200 Site Details
    - i. Revised details 7, 8, 9 where poured-in-place surface meets concrete curb.
  - g. L-201 Site Details
    - i. Detail 5 – removed note for geotextile.
  - h. L-203 Deduct Alt 2: Site Details
    - i. Revised detail 1 where poured-in-place surface meets concrete curb.
  - i. L-300 Planting Plan and Details
    - i. Added limit of work line.
  - j. C-100 Grading and Utility Plan
    - i. Added LOD and electrical lines.
  - k. C-200 Erosion Control Plan
    - i. Added electrical lines.
    - ii. Revised LOD and construction entrance.

- I. E-100 Electrical Site Plan
  - i. Added notes re: existing electrical and splice box.
  - ii. Added notes re: existing fiber line.
  - iii. Revised Keyed Notes.
- m. E-200 - Details
  - i. Detail 2 – deleted note 2.
  - ii. Revised details 6, 7, 8.

Bidders must acknowledge receipt of Addendum No 1. The signed acknowledgement must be included in your bid proposal. Please sign and date below:

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Acknowledgement of Addendum No.1

## Cobbs Creek Playground RFP

### Questions/RFIs:

1. Drawing E-100: Keyed Note #9 – Can you provide a location or distance for bid purposes of the “City Underground Pull Box” for the fiber optic line needed for CCTV?  
Response: Contractor to intercept existing underground conduit with new handhole. The existing underground handhole located adjacent to the existing light pole with CCTV cameras (located along the road to the Environmental Center Building) is approximately 170’ north of the new handhole. Refer to the updated drawing E-100 for additional information.
2. Was a Service & Meter request filed with PECO for the new electrical service? Site has existing PECO manhole on property. Is this where we run the underground for the service?  
Response: The PECO S&M application is in process. Contractor to install underground conduit from service equipment to PECO approved splice box. Final PECO service point location to be determined with PECO.
3. Specification Section 100610-15 identifies various display cases. There are none shown on the plans. Please confirm the quantity of display cases.  
Response: No display cases are specified for this project.
4. Specification Section 100610-16 identified a dog waste dispenser, however this is not shown on the plans. Please confirm the quantity of dog waste dispensers.  
Response: No dog waste dispensers are specified for this project.
5. The safety surface details on Sheet L-200 do not shown geotextile fabric under the safety surface. The mound detail on Sheet L-201 does show fabric. Is fabric required under the safety surfaces?  
Response: No geotextile is needed at any safety surface location. Detail 5/L-201 will be updated in addendum to remove geotextile.
6. Regarding Keyed Note #9 on Sheet E-100, please provide a distance to the existing pull box that all bidders are to include in their price.  
Response: Contractor to intercept existing underground conduit with new handhole. The existing underground handhole located adjacent to the existing light pole with CCTV cameras (located along the road to the Environmental Center Building) is approximately 170’ north of the new handhole. Refer to the updated drawing E-100 for additional information.
7. Do you have a specification and model for CCTV System?  
Response: Specification ‘282300 - Video Surveillance’ included as an addendum.
8. Can you show a point of connection for the water service outside of construction limit lines shown as limit of work lines on L-100  
Response: For new water service see C-100. Limit of Work line in L-series drawings has been updated to match C-Series LOD line and include areas for new utility connections. See C-series and E-series for new connection locations. Any existing feature or area disturbed by the installation of the water service or electrical service to be replaced in kind.
9. Can you show a point of connection for the #9 pull box outside of construction limit lines not shown on E-100?  
Response: Contractor to intercept existing underground conduit with new handhole. The existing underground handhole located adjacent to the existing light pole with CCTV cameras (located along the road to the Environmental Center Building) is approximately 170’ north of the new handhole. Refer to the updated drawing E-100 for additional information.

## Cobbs Creek Playground RFP

### Questions/RFIs:

10. Can you show a point of connection for the #4 service outside of construction limit lines not shown on E-100?

Response: Contractor to install underground conduit from service equipment to PECO approved splice box. Final PECO service point location to be determined with PECO. Refer to the updated drawing E-100 for additional information.

11. (a) Is the PECO provided service splice box the point of connection for the electrical work?

Response: Contractor responsible for work at service splice box to service equipment.

- (b) Detail 1/E-200 says Splice box to be located within 18" of property line is the property line the curb?

Response: Contractor to install the splice box adjacent to the existing manhole on the property. Final location to be coordinated/approved by PECO. Refer to the updated drawing E-100 for additional information.

- (c) Note #4 on E-100 point of connection appears to be in the asphalt walkway but identifies it as the parkway which is outside the curb line. C-200 shows the existing electric line between the fragmented curb and guard rail, Please clarify the correct location of the splice box on the drawings.

Response: Contractor to install the splice box adjacent to the existing manhole on the property. Final location to be coordinated/approved by PECO. Refer to the updated drawing E-100 for additional information.

12. Can the points of connection for the water and electrical work be located on the drawings?

Response: Point of connection for water service shown on C-100. Electrical connections described in other responses and addendum drawings.

13. (a) Can the work limit lines be shown on the C-100 & 200 civil plans?

Response: LOD is shown on C-200. The LOD can be added to the C-100 plan.

- (b) There is a lot of site improvements not shown on the "L" drawings, and not identified on the "C" drawings, that will require removal and replacement for the water & electrical work. What site improvements are we specifically responsible for outside of the work limit lines?

Response: It is unclear what exactly this question refers to. The LOD includes the water lateral replacement. Contractor is responsible to repair in kind any site elements or areas disturbed during the construction process.

- (c) Are we required to remove and replace the existing metal guard rail and asphalt walk where we cross it with the new water line?

Response: Any existing feature disturbed by the installation of the water service line will need to be replaced in kind. It is the opinion of the designer that the bituminous pavement will require replacement, however, the water service line can be installed without disturbing the guiderail and will therefore not require replacement.

- (d) Are we required to remove & replace the guard rail and asphalt walk for the splice box work?

## Cobbs Creek Playground RFP

### Questions/RFIs:

Response: Any existing features that are disturbed during the work are to be replaced in kind to the satisfaction of the owner. The engineer feels there is no need to remove or disturb the existing guiderail for any reason. If guiderail is disturbed, proper protections shall be in place to protect the public. Asphalt that is disturbed shall be replaced in kind.

14. Please identify exact location for all the above noted work outside the work limit lines, so that we can identify scope of restoration work prior to the bid due date.

Response: LOD and work limit lines have been coordinated in the addendum and include all water laterals and electrical connection points. Any existing feature disturbed by the installation of the water service or electrical service will need to be replaced in kind.

15. (a) What existing site improvements are to be salvaged for the owner as noted in section 024119?

Response: One existing PPR post with sign located in the construction entrance will be salvaged and relocated. New location to be coordinated in the field with owner.

- (b) Where are these items to be relocated?

Response: One existing PPR post with sign located in the construction entrance will be salvaged and relocated. New location to be coordinated in the field with owner.

- (c) What type of temp protection will be required for salvaged items?

Response: No temporary protection is required.

16. Will there be a designated staging areas where we will be allowed to put our trailers?

Response: No specific designated area. Intent is to maintain staging to within the limit of disturbance. Additional staging areas required will have locations to be reviewed and approved. Any existing area disturbed by staging activities will need to be replaced in kind. Logistics plan to be approved by owner.

17. There appears to be existing trees and a guy-wire of the overhead line on C-200 at the construction access location. Is the intent to weave the access thru the tree CRZ?

Response: The location of the Rock Construction Entrance has been modified and is being vetted by agencies having jurisdiction. Any site access shall be done to minimize disturbance to existing features, including trees. No tree is to be damaged to provide access to the site.

18. The construction access, CFS and soil stockpile is all outside of the work limit lines. We are assuming we will need to restore these areas. Where trucks are driving over the CRZ will we be require to put down AlturnaMATS or 1" steel plate under the stone access and along the route thru the tree drip lines?

Response: LOD and work limit lines have been coordinated in the addendum. Rock construction entrance will provide enough protection so long as kept out of the critical root zones as indicated on L-100. Stockpile location has been moved to be inside of the LOD/work limit line. Any existing area disturbed by construction activities will need to be replaced in kind. Logistics plan to be approved by owner.

19. Existing curb is basically non-existent. Where water is cut into the street, do you want us to include any new curb? If so how many linear feet would you like replaced?

## Cobbs Creek Playground RFP

### Questions/RFIs:

Response: Curb should be replaced if it is disturbed. Concrete. Assume it needs to be about 4 feet, or the width of the trench, whichever is greater.

20. Is it correct to assuming alternate 1 includes all plumbing work for drinking fountain, single post mister?

Response: Yes

21. If alternate 1 is accepted does that include both the add and deduct alternates 1 or are they separate but in numerical order. Such as deduct alternate 1 will only be accepted if add alternate 1 is accepted first?

Response: Each add alternate and deduct alternate will be considered on its own merits. Numbers are for reference only.

22. 329600 3.12 specifies a slow-release watering device at each tree. Device is to be filled with water according to manufactures written instructions. What is this device and how is to be installed? Is there any water piped to this location or is part of the excluded hose bib & hydration station work indicated on 011100-3?

Response: Treegator Original or approved equal. If add alt 1 is rejected, trees will have to be watered by truck as necessary.

23. 022310-3 Specifies chain link fence and L-202 specifies snow fence, which is correct?

Response: L-202 showing the Snow fence is correct. Refer to specification '015639 Temporary Tree and Plant Protection' for product information.

24. 329200 Turf & Grasses specifies all forms of seeding and sod. Do we assume the more expensive method of Sod of will seeding and over seeding be okay.

Response: Sod will be used for this project and should be assumed for pricing purposes.

25. 329200-4 Turf & Grasses, what areas or work limit are we to use for the initial maintenance spec?

Response: Any grass that has been installed within the work limit line.

26. 329200-4 Landscape Maintenance Since this spec section is not included can we assume maintenance is limited to the initial maintenance spec?

Response: Landscape maintenance is limited to initial Maintenance spec.

27. 312000-4 3.2 Excavation notes to remove all unclassified materials. Are there any boring reports or other documentation to indicate subsoil conditions? If unclassified unsuitable materials do down 10'-0" below grade are we to include 1,000's of yards off material replacement in our bids or can we classify a certain amount in a unit price allowance?

Response: No boring reports were done. Include a unit price for removal of unclassified material and a change order will be executed if necessary.

28. 312000-4 3.2 Excavation notes to remove all unclassified materials. When the prior work was completed, was any testing been done on the soils in this areas. If so is this information available to bidders? Can we assume if unclassified unsuitable materials if contaminated and require special handling, this will be handled as a change order?

Response: No testing was done in prior work. Include a unit price for removal of unclassified material and change order will be executed if necessary.

**SECTION 000110  
TABLE OF CONTENTS**

**DIVISION 0 - BIDDING AND CONTRACT REQUIREMENTS:**

000110	Table of Contents
000115	List of Drawings
002113	Instructions to Sellers
002114	Diesel Engine Emissions Controls for PW Bids
002115	Notice to Sellers ONLY-Mayor's Executive Order 7-14
004109	Pricing
004112	Performance of Work
004312	Public Works LBE Language
004313	Bid Bond
007200	Standard Contract Requirements
007201	Act 127 Verification Form Addendum
007343	Prevailing Wage Rates Schedule

**DIVISION 1 - GENERAL REQUIREMENTS**

011100	Summary of the Work
012100	Allowances
012200	Unit Prices
012300	Alternates
012500	Substitution Procedures
012600	Contract Modification Procedures - Change Order Form
012900	Payment Procedures
012973	Schedule of Values
013113	Project Coordination
013119	Project Meetings
013216	Construction Scheduling
013226	Progress Reports
013233	Construction Photographs
013330	Submittals
013513.18	Special Requirements for Work Within the Philadelphia Parks & Recreation System
014100	Codes, Regulations and Standards

014516.13	Contractor's Quality Control
015000	Temporary Facilities and Controls
015719	Environmental Controls
015639	Temporary Tree and Plant Protection
015800	Project Identification and Signs
016001	Products and Materials
017123	Field Engineering
017329	Cutting, Patching, Sleeves and Inserts
017419	Construction Waste Management and Disposal
017423	Cleaning
017700	Closeout Procedures
	-Certificate of Substantial Completion Form
017823	Operation and Maintenance Manuals
017836	Warranties
017839	Project Record Documents

#### **DIVISIONS 02 – EXISTING CONDITIONS**

022310	Tree Protection, Trimming and Relocation
024119	Selective Demolition

#### **DIVISION 03 - CONCRETE**

033053	Cast in Place Concrete
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#### **DIVISION 10 - SIGNAGE**

100610	Exterior Signage
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#### **DIVISION 11 - EQUIPMENT**

116800	Play Equipment
116800.01	Sprayground System

#### **DIVISION 12 - FURNISHINGS**

129300	Site Furnishings
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#### **DIVISION 26 - ELECTRICAL**

260519	Low-Voltage Electrical Power Conductors and Cables
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260526	Grounding and Bonding for Electrical Systems
260533	Raceways and Boxes for Electrical Systems
260543	Underground Ducts and Raceways for Electrical Systems
260552	Identification for Electrical Systems
260923	Lighting Control Devices
262416	Panelboards
262726	Wiring Devices
262816	Enclosed Switches and Circuit Breakers

**DIVISION 28 – ELECTRONIC SAFETY AND SECURITY**

282300	Video Surveillance
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**DIVISION 31 - EARTHWORK**

311000	Site Clearing
312000	Earth Moving
312350	Sawcutting
312500	Soil Erosion and Sediment Control

**DIVISION 32 – EXTERIOR IMPROVEMENTS**

321216	Asphalt Paving
321313	Concrete Paving
321723	Pavement Markings
321816.13	Playground Protective Surfacing
321816.33	Cork Playground Protective Surfacing
329113	Soil Preparation
329200	Turf and Grasses
329300	Plants
329600	Transplanting

**DIVISION 33 - UTILITIES**

331417	Site Water Service Utility Laterals
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**END OF SECTION 000110**

PROJECT No. 17305E-02-02  
000110-3  
TABLE OF CONTENTS

**SECTION 012200**  
**UNIT PRICES**

*Unit Prices submitted with this bid will be utilized by the City for **additional work (change orders)** not otherwise specified in this bid due to unforeseen conditions not known at the time of contract award. The City reserves the right to negotiate or otherwise bid additional work items in the event the Unit Prices submitted with this bid are not competitive. Unit Prices shall include all associated costs such as material, delivery, installation, applicable permit fees, taxes, bonds, overhead and/or profit, etc.*

**PART 1 GENERAL**

1.1 DESCRIPTION OF WORK

- A. This Section identifies Unit Prices and describes the method of pricing the change in quantity of the item of work for which the price is stated. Unit prices may be used to price additions and subtractions to the contract amount.

1.2 RELATED REQUIREMENTS SPECIFIED ELSEWHERE

- A. Applicable provisions of Bidding Requirements, Contract Requirements in Division 0 and all applicable Division 1 sections.
- B. Field Engineering - Division 1.
- C. Referenced Section of Specifications stipulate pertinent requirements for products and methods to achieve the work required for each Unit Price.

1.3 SUBMITTALS

- A. Submit completed Schedule of Unit Prices not later than 15 days after the Notice to Proceed.

1.4 SCHEDULE OF UNIT PRICES

- A. Payment for additional work and credit for deductions in work caused by modifications to the Contract, shall be computed in accordance with the following Schedule of Unit Prices, which schedule shall remain in effect until all Work of the Contract has been completed and accepted.
- B. The Unit Prices shall be firm lump sums all-inclusive cost of the materials, work, layout, drafting, balancing, testing, tools, sundries, scaffolding, trucking, transportation, cleaning, supervision, overhead, profit, and any and all other costs for each of the items listed.
- C. The calculations for determining the number of units of work shall be of actual surface, volume, length, hours or number of individual items listed for the class of work, complete in place and accepted or omitted. No allowance for waste, loss, breakage, damage, or difficulties shall be made.
- D. Determination of number of units of work for work performed under Division 2 specification sections is specified in Field Engineering.
- E. Number of units of work for all other work will be determined by Contractor. The City reserves the right to independently verify units of Work.

1.4 UNIT PRICE SCHEDULE

	PRODUCT	UNIT OF MEASURE	UNIT PRICE
1.	Furnish and install concrete pathway (broom finished - 4" depth)	1/SF	
2.	Furnish and install concrete pathway (exposed aggregate - 4" depth)	1/SF	
3.	Furnish and install concrete bench pad and bench	1/Each	
4.	Furnish and install asphalt pathway	1/SF	
5.	Furnish and install tree	1/Each	
6.	Furnish, install, and test poured-in-place safety surface.	1/SF	
7.	Offsite disposal of unclassified material	1/CY	

**END OF SECTION 012200**

PROJECT No. 17305E-02-02  
012200-2  
UNIT PRICES

SECTION 282300

VIDEO SURVEILLANCE SECURITY DEVICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes a video surveillance system consisting of cameras, network video recorder, data transmission wiring, and a control station with its associated equipment.
- B. Video surveillance system shall be integrated with existing PPR network equipment.

1.3 DEFINITIONS

- A. AGC: Automatic gain control.
- B. BNC: Bayonet Neill-Concelman - type of connector.
- C. B/W: Black and white.
- D. CCD: Charge-coupled device.
- E. FTP: File transfer protocol.
- F. IP: Internet protocol.
- G. LAN: Local area network.
- H. MPEG: Moving picture experts group.
- I. NTSC: National Television System Committee.
- J. PC: Personal computer.
- K. PTZ: Pan-tilt-zoom.
- L. RAID: Redundant array of independent disks.
- M. TCP: Transmission control protocol - connects hosts on the Internet.
- N. UPS: Uninterruptible power supply.
- O. WAN: Wide area network.

#### 1.4 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Video surveillance system shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
  - 1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."

#### 1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include dimensions and data on features, performance, electrical characteristics, ratings, and finishes.
- B. Shop Drawings: For video surveillance. Include plans, elevations, sections, details, and attachments to other work.
  - 1. Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
  - 2. Functional Block Diagram: Show single-line interconnections between components for signal transmission and control. Show cable types and sizes.
  - 3. Dimensioned plan and elevations of equipment racks, control panels, and consoles. Show access and workspace requirements.
  - 4. UPS: Sizing calculations.
  - 5. Wiring Diagrams: For power, signal, and control wiring (if provided).
  - 6. Storage Device Calculations.
  - 7. Network Bandwidth Requirements and Fiber Optic Channel Link-Loss Budgets .
  - 8. Existing Equipment Frame Elevations, where new equipment is being added.
- C. Equipment List: Include every piece of equipment by model number, manufacturer, serial number, location, and date of original installation. Add pretesting record of each piece of equipment, listing name of person testing, date of test, set points of adjustments, name and description of the view of preset positions, description of alarms, and description of unit output responses to an alarm.

#### 1.6 INFORMATIONAL SUBMITTALS

- A. Seismic Qualification Certificates: For video surveillance, cameras, camera-supporting equipment, accessories, and components, from manufacturer.
  - 1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
  - 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
  - 3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

- B. Field quality-control reports.
- C. Warranty: Sample of special warranty.

#### 1.7 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For cameras, power supplies, infrared illuminators, monitors, videotape recorders, digital video recorders, video switches, and control-station components to include in emergency, operation, and maintenance manuals. Include the following as well:

#### 1.8 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with NECA 1.
- C. Comply with NFPA 70.
- D. Electronic data exchange between video surveillance system with an access-control system shall comply with SIA TVAC, if access-control system is provided.

#### 1.9 PROJECT CONDITIONS

- A. Environmental Conditions: Capable of withstanding the following environmental conditions without mechanical or electrical damage or degradation of operating capability:
  - 1. Control Station: Rated for continuous operation in ambient temperatures of 50 to 95 deg and a relative humidity of 20 to 80 percent, noncondensing.
  - 2. Exterior Environment: System components installed in locations exposed to weather shall be rated for continuous operation in ambient temperatures of minus 30 to plus 122 deg F dry bulb and 20 to 90 percent relative humidity, condensing. Rate for continuous operation when exposed to rain as specified in NEMA 250, winds up to 85 mph and snow cover up to 24 inches thick. Use NEMA 250, Type 4X enclosures.
  - 3. Hazardous Environment: System components located in areas where fire or explosion hazards may exist because of flammable gases or vapors, flammable liquids, combustible dust, or ignitable fibers shall be rated, listed, and installed according to NFPA 70.
  - 4. Corrosive Environment: System components subject to corrosive fumes, vapors, and wind-driven salt spray in coastal zones. Use NEMA 250, Type 4X enclosures.
  - 5. Security Environment: Camera housing for use in high-risk areas where surveillance equipment may be subject to physical violence.

#### 1.10 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of cameras, equipment related to camera operation, and control-station equipment that fail in materials or workmanship within specified warranty period.

1. Warranty Period: Three years from date of Final Acceptance by the City.
- B. Warranty Requirements: Contractor shall warrant DPP (or PPR) that the equipment will be free and clear of any lien or encumbrance on the final acceptance date. Contractor shall further warrant for a period of three (3) year from the date of Substantial Completion that the Security System will, under normal use and service, be free from defects and faulty workmanship except as set forth below:
1. Contractor's obligation under this warranty is to repair or replace defective equipment, parts, and associated labor thereto at its expense. Contractor shall warrant that replacement or repaired equipment furnished hereunder and labor shall be in accordance with current industry standards.
  2. PPR is granted a nontransferable fully paid license (Genetec) to use all software furnished by the Contractor as part of furnishing the security system equipment provisions under terms established by the software manufacturer. The Authority will be provided with a copy of all applicable licenses. Contractor shall warrant that it has the right to grant such licenses.
  3. A copy of Contractor's standard warranty agreement must be provided and must match or exceed manufacturer's warranty, minimum of 3 years.
  4. Upgrade of software during warranty period.
  5. Provide Service for three (3) years after substantial completion, includes all labor and material cost associated with the repair, with the exception of third party negligence or acts of vandalism.
  6. Contractor's personnel shall respond to all system failures within four (4) hours of the occurring event. All failure shall be corrected within eight (8) hours of the arrival on site of Contractor's personnel.

## PART 2 - PRODUCTS

### 2.1 GENERAL SYSTEM REQUIREMENTS

- A. Surge Protection: Protect components from voltage surges originating external to equipment housing and entering through power, communication, signal, control, or sensing leads. Include surge protection for external wiring of each conductor's entry connection to components.
- B. Tamper Protection: Tamper switches on enclosures, control units, pull boxes, junction boxes, cabinets, and other system components shall initiate a tamper-alarm signal when unit is opened or partially disassembled. Control-station, control-unit alarm display shall identify tamper alarms and indicate locations.
- C. Compatibility: Video Management Software must be compatible with IP video equipment. The contractor, if submitting components from different manufactures must submit with either shop drawings, or product data, statements of compatibility from each manufacturer guaranteeing IP video components are compatible with the IP video management software submitted.

### 2.2 IP VIDEO SYSTEMS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  1. Genetec

2. Vivotek
3. Axis Communications
4. DVTEL

B. Description:

1. System shall provide high-quality delivery and processing of IP-based video, audio, and control data using standard Ethernet-based networks.
2. System shall have seamless integration of all video surveillance and control functions.
3. Graphical user interface software shall manage all IP-based video matrix switching and camera control functions, two-way audio communication, alarm monitoring and control, and recording and archive/retrieval management. IP system shall also be capable of integrating into larger system environments.
4. System design shall include all necessary compression software for high-performance, dual-stream, MPEG-2/MPEG-4 video and H.264 video. Unit shall provide connections for all video cameras, bidirectional audio, discreet sensor inputs, and control system outputs.
5. All camera signals shall be compressed, encoded, and delivered onto the network for processing and control by the IP video-management software.
6. Camera system units shall be ruggedly built and designed for extreme adverse and urban environments, complying with NEMA Type environmental standards. Where required provide vandal proof exterior camera housings.
7. Encoder/decoder combinations shall place video, audio, and data network stream that can be managed from multiple workstations on the user's LAN or WAN at the same time.
8. All system interconnect cables, workstation PCs, and network intermediate devices shall be provided for full performance of specified system.

2.3 STANDARD IP CAMERAS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Genetec (AutoVu SharpV)
2. Vivotek
3. Axis Communications
4. DVTEL

B. Network Outdoor Dome Camera, HD/ (3) Megapixel: Assembled and tested as a complete manufactured unit.

1. Image Sensor - 1/3" Progressive scan CMOS
2. Lens – 2.7-9mm Motorized Verifocal
3. Minimum Illumination/Light Sensitivity (lux) 0.5 color, 0 black and white
4. Maximum Resolution (pixels) - 2048x1536 (3MP)
5. Video Compression - H.264/MPEG4/M-JPEG
6. Frames per Second - 30
7. Intelligent Alarm
8. Network Protocol - TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, SNMP, HTTPS, FTP, 802.1x, Qos
9. Power - PoE



10. Outdoor Use - Outdoor Ready
11. Vandal Resistant - Yes
12. Digital Pan/Tilt/Zoom
13. 20M IR LED
14. Heater - Integrated with housing
15. Mounting:
  - a. Outdoor Wall Mount on Pole Mount Adapter, Min. Three Clamps(Vandal Proof)

## 2.4 VIDEO DECODERS

- A.
1. Network - IPv4 or IPv6
  2. Power - PoE, DC
  3. Monitor Support - Up to 2 DVI or Analog
  4. Network Configurable
  5. Camera Viewing capability only, no control

## 2.5 POWER SUPPLIES

- A. Low-voltage power supplies matched for voltage and current requirements of cameras and accessories, and of type as recommended by manufacturer of camera and lens.
- B.
1. Enclosure: NEMA 250, Type 3.
  2. Input - 115VAC
  3. Output - 16 fuse protected outputs:
    - a. 12VDC or 24VDC
    - b. 4A total continuous supply
    - c. 3.5A rated outputs
  4. Temperature Operating Range - 0 to 49 C
  5. Input/Output LED Indicators
  6. On/Off Switch
  7. Locking Enclosure

## 2.6 CAMERA-SUPPORTING EQUIPMENT

- A. Manufacturers: Subject to compliance with requirements of:
1. Genetec

- B. Minimum Load Rating: Rated for load in excess of the total weight supported times a minimum safety factor of two.
- C. Mounting Brackets for Fixed Cameras: Type matched to items supported and mounting conditions. Include manual pan-and-tilt adjustment.
- D. Protective Housings for Fixed Cameras: Steel enclosures with internal camera mounting and connecting provisions that are matched to camera/lens combination and mounting and installing arrangement of camera to be housed.
  - 1. Tamper switch on access cover sounds an alarm signal when unit is opened or partially disassembled. Central-control unit shall identify tamper alarms and indicate location in alarm display.
  - 2. Camera Viewing Window: Polycarbonate window, aligned with camera lens.
  - 3. Duplex Receptacle: Internally mounted.
  - 4. Alignment Provisions: Camera mounting shall provide for field aiming of camera and permit removal and reinstallation of camera lens without disturbing camera alignment.
  - 5. Built-in, thermostat-activated heater units. Units shall be automatically controlled so the environmental limits of the camera equipment are not exceeded.
  - 6. Sun shield shall not interfere with normal airflow around the housing.
  - 7. Mounting bracket and hardware for wall or ceiling mounting of the housing. Bracket shall be of same material as the housing; mounting hardware shall be stainless steel.
  - 8. Finish: Housing and mounting bracket shall be factory finished using manufacturer's standard finishing process suitable for the environment.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine pathway elements intended for cables. Check raceways and other elements for compliance with space allocations, installation tolerance, hazards to camera installation, and other conditions affecting installation.
- B. Examine roughing-in for LAN, WAN, and IP network before device installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 WIRING

- A. Comply with requirements in Division 26 – Raceways and Boxes for Electrical Systems. If Division 26 is not provided, install wiring per below.
- B. Wiring Method: Install cables in raceways unless otherwise indicated.
  - 1. Except raceways are not required in accessible indoor ceiling spaces and attics.

2. Except raceways are not required in hollow gypsum board partitions.
  3. Conceal raceways and wiring except in unfinished spaces.
- C. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's limitations on bending radii. Provide and use lacing bars and distribution spools.
- D. Splices, Taps, and Terminations: For power and control wiring, use numbered terminal strips in junction, pull, and outlet boxes; terminal cabinets; and equipment enclosures. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A-486B.
- E. For LAN connection and fiber-optic and copper communication wiring, comply with Section 271500-1.4 "Horizontal Cabling Description."
- F. Grounding: Provide independent-signal circuit grounding recommended in writing by manufacturer.

### 3.3 VIDEO SURVEILLANCE SYSTEM INSTALLATION

- A. Install cameras and infrared illuminators level and plumb.
- B. Install cameras with an 84-inch minimum clear space below cameras and their mountings to the finished floor or grade. Change type of mounting to achieve required clearance. For exterior camera mount cameras on building exteriors or steel poles to match exterior lighting system poles.
- C. Set pan unit and pan-and-tilt unit stops to suit final camera position and to obtain the field of view required for camera. Connect all controls and alarms, and adjust.
- D. Install power supplies and other auxiliary components at control stations unless otherwise indicated.
- E. Install tamper switches on components indicated to receive tamper switches, arranged to detect unauthorized entry into system-component enclosures and mounted in self-protected, inconspicuous positions.
- F. Avoid ground loops by making ground connections only at the control station.
1. For 12- and 24-V dc cameras, connect the coaxial cable shields only at the monitor end.
- G. Identify system components, wiring, cabling, and terminals.

### 3.4 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- C. Perform tests and inspections:
1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

D. Tests and Inspections:

1. Inspection: Verify that units and controls are properly installed, connected, and labeled, and that interconnecting wires and terminals are identified.
2. Pre-testing: Align and adjust system and pretest components, wiring, and functions to verify that they comply with specified requirements. Conduct tests at varying lighting levels, including day and night scenes as applicable. Prepare video-surveillance equipment for acceptance and operational testing as follows:
  - a. Prepare equipment list described in "Informational Submittals" Article.
  - b. Verify operation of auto-iris lenses.
  - c. Set back-focus of fixed focal length lenses. At focus set to infinity, simulate nighttime lighting conditions by using a dark glass filter of a density that produces a clear image. Adjust until image is in focus with and without the filter.
  - d. Set back-focus of zoom lenses. At focus set to infinity, simulate nighttime lighting conditions by using a dark glass filter of a density that produces a clear image. Additionally, set zoom to full wide angle and aim camera at an object 50 to 75 away. Adjust until image is in focus from full wide angle to full telephoto, with the filter in place.
  - e. Set and name all preset positions; consult Owner's personnel.
  - f. Set sensitivity of motion detection.
  - g. Connect and verify responses to alarms.
  - h. Verify operation of control-station equipment.
3. Test Schedule: Schedule tests after pretesting has been successfully completed and system has been in normal functional operation for at least 14 days. Provide a minimum of 10 days' notice of test schedule.
4. Operational Tests: Perform operational system tests to verify that system complies with Specifications. Include all modes of system operation. Test equipment for proper operation in all functional modes.
5. Video surveillance system will be considered defective if it does not pass tests and inspections.
6. Prepare test and inspection reports and submit to PPR for review.

3.5 LABELING OF CAMERA DEVICES AND CONTROL SYSTEMS

- A. Contractor to provide a recommended Labeling System to Project Coordinator prior to camera installation.

3.6 ADJUSTING

- A. Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to two visits for this purpose at 6 months and 12 months. Tasks shall include, but are not limited to, the following:
1. Check cable connections.
  2. Check proper operation of cameras and lenses. Verify operation of auto-iris lenses and adjust back-focus as needed.
  3. Adjust all preset positions; consult Owner's personnel.

4. Recommend changes to cameras, lenses, and associated equipment to improve Owner's use of video surveillance system.
5. Provide a written report of adjustments and recommendations.
6. Cleaning per Section 3.7

3.7 CLEANING

- A. Clean installed items using methods and materials recommended in writing by manufacturer.
- B. Clean video-surveillance-system components, including camera-housing windows, lenses, and monitor screens.

3.8 DEMONSTRATION/TRAINING

- A. Provide a minimum of 8 hours of training to Owner's maintenance personnel to adjust, operate, and maintain video-surveillance equipment.

END OF SECTION





**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
L-102	MATERIALS, FURNISHING & EQUIPMENT PLAN
L-103	LAYOUT PLANS
L-104	DETAIL LAYOUT PLANS
L-105	DETAIL LAYOUT PLANS
L-200	SITE DETAILS
L-201	SITE DETAILS
L-202	SITE DETAILS
L-203	DEDUCT ALT 2: SITE DETAILS
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

**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.

**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

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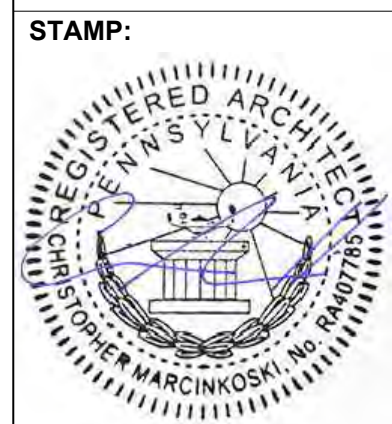
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 Arora Engineers, Inc.  
 61 Wilmington-West  
 Chester Pike  
 Chadds Ford, PA 19317

**COBBS CREEK  
 PLAYGROUND**  
 PHILADELPHIA, PA



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



NO.	DATE	DESCRIPTION
1	08.18.2022	ADDENDUM 1 REVISIONS



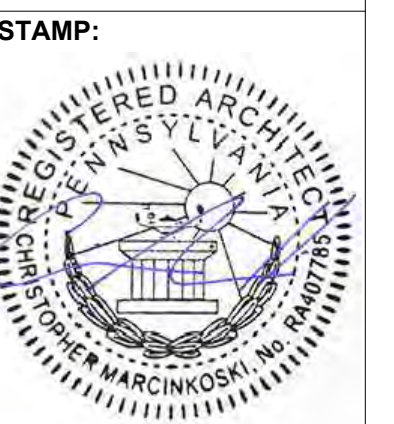
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# COBBS CREEK PLAYGROUND PHILADELPHIA, PA



STAMP:  
JOB NO: 2131  
DATE: 07/22/2022  
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CHECKED: CM  
DRAWING TITLE:

EXISTING  
CONDITIONS  
PLAN

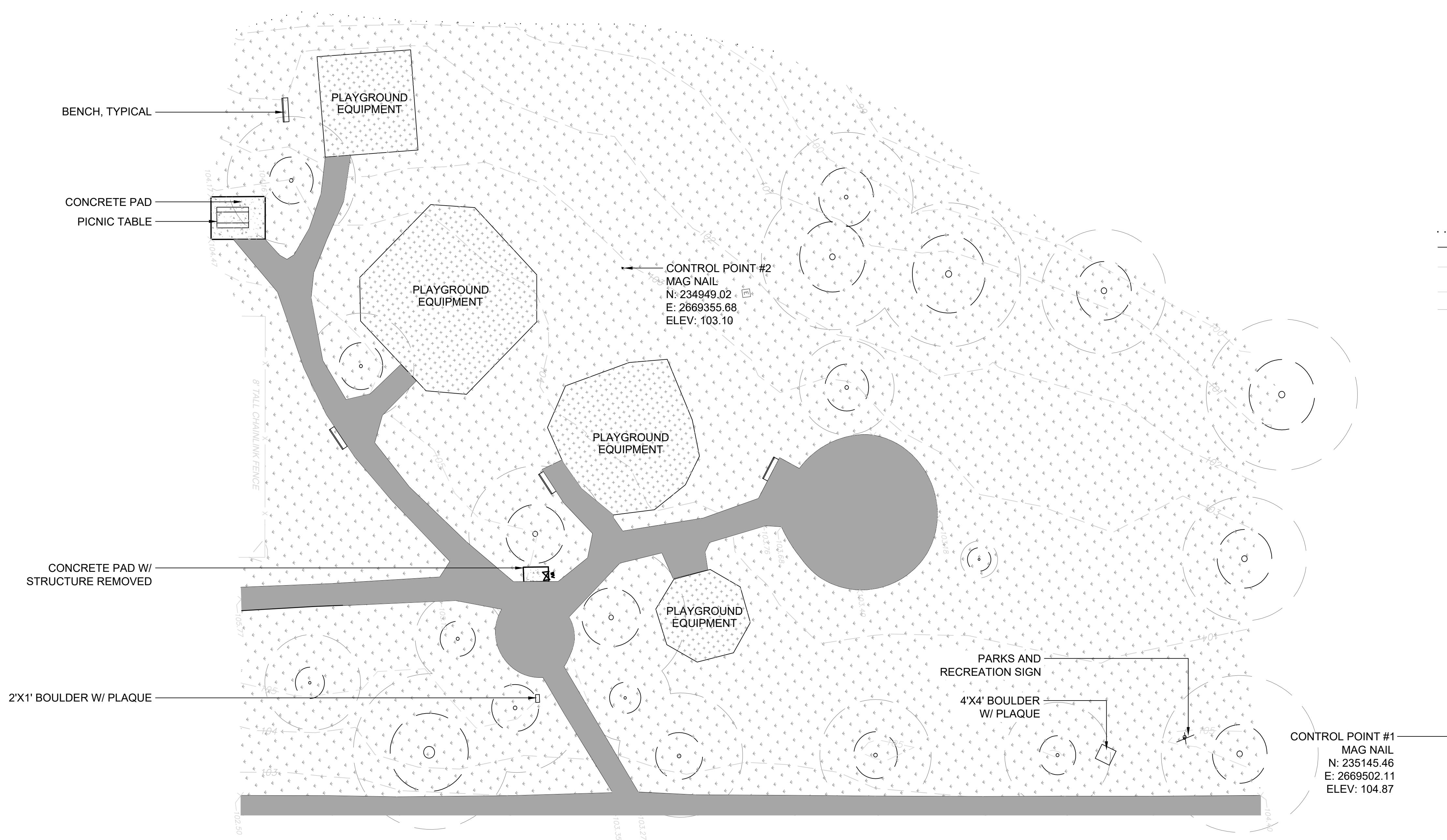
DRAWING NO:  
**G-100**  
SHEET 02 OF 22

### LEGEND

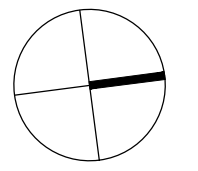
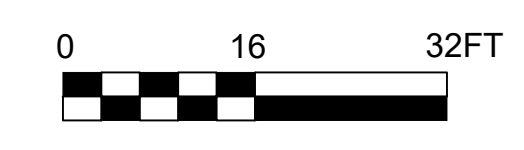
- PAVEMENT AREAS
- MULCH AREAS
- GRASS AREAS
- CONCRETE AREAS
- ELECTRIC UTILITY VAULT
- SIGN
- WATER VALVE
- APPROX. EXTENTS OF CANOPY
- TREE
- CRITICAL ROOT ZONE
- TREE LINE
- APPROXIMATE ROAD RIGHT OF WAY LINE
- FENCE
- MAJOR TOPOGRAPHIC CONTOUR LINE WITH ELEVATION
- MINOR TOPOGRAPHIC CONTOUR LINE WITH ELEVATION

### EXISTING CONDITIONS NOTES:

1. TOPOGRAPHIC INFORMATION SHOWN IS BASED ON A FIELD SURVEY PERFORMED BY SCI-TEK CONSULTANTS, INC., COMPLETED IN JANUARY 2021 AND PROVIDED TO THE ARCHITECT IN JUNE 2021.
2. A COPY OF THE SIGNED AND STAMPED SURVEY IS AVAILABLE FROM THE CLIENT UPON REQUEST.
3. SEE CIVIL DRAWINGS FOR UTILITY LOCATIONS.
4. HORIZONTAL DATUM: PA STATE PLANE COORDINATES (SOUTH ZONE) NAD83(2011); VERTICAL DATUM: NAVD88 (GEOID18). GRID NORTH, BEARINGS AND ELEVATIONS DERIVED FROM THE KEYNET GPS VRS NETWORK. THE STATE PLANE COORDINATES HAVE BEEN SCALED TO GROUND FROM A POINT AT N: 234949.02 AND E: 2669355.68 USING A COMBINED FACTOR OF 1.0000024745.
5. SURVEY MEASUREMENTS WERE MADE IN US SURVEY FEET (US FT).
6. CONTOURS SHOWN WERE PRODUCED FROM AN ACTUAL GROUND SURVEY. CONTOUR INTERVAL IS 1 FOOT.
7. UNDERGROUND UTILITY LOCATIONS SHOWN ARE BASED ON INFORMATION PROVIDED BY UTILITY COMPANIES THAT RESPONDED THROUGH THE PA ONE CALL SYSTEM. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND UTILITIES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, UTILITY LOCATION REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE. THEREFORE THE SURVEYOR MAKES NO REPRESENTATIONS AS TO THE COMPLETENESS OR ACCURACY OF THE PROVIDED MARKINGS WITH RESPECT TO THE ACTUAL LOCATIONS OF THE UNDERGROUND UTILITIES.



**01** EXISTING CONDITIONS PLAN  
SCALE: 1" = 16'-0"





NO.	DATE	DESCRIPTION
1	08.18.2022	APPENDUM 1 REVISIONS



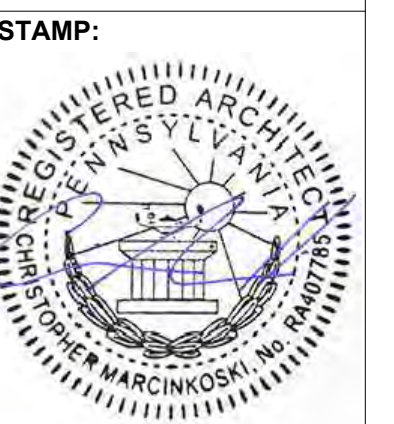
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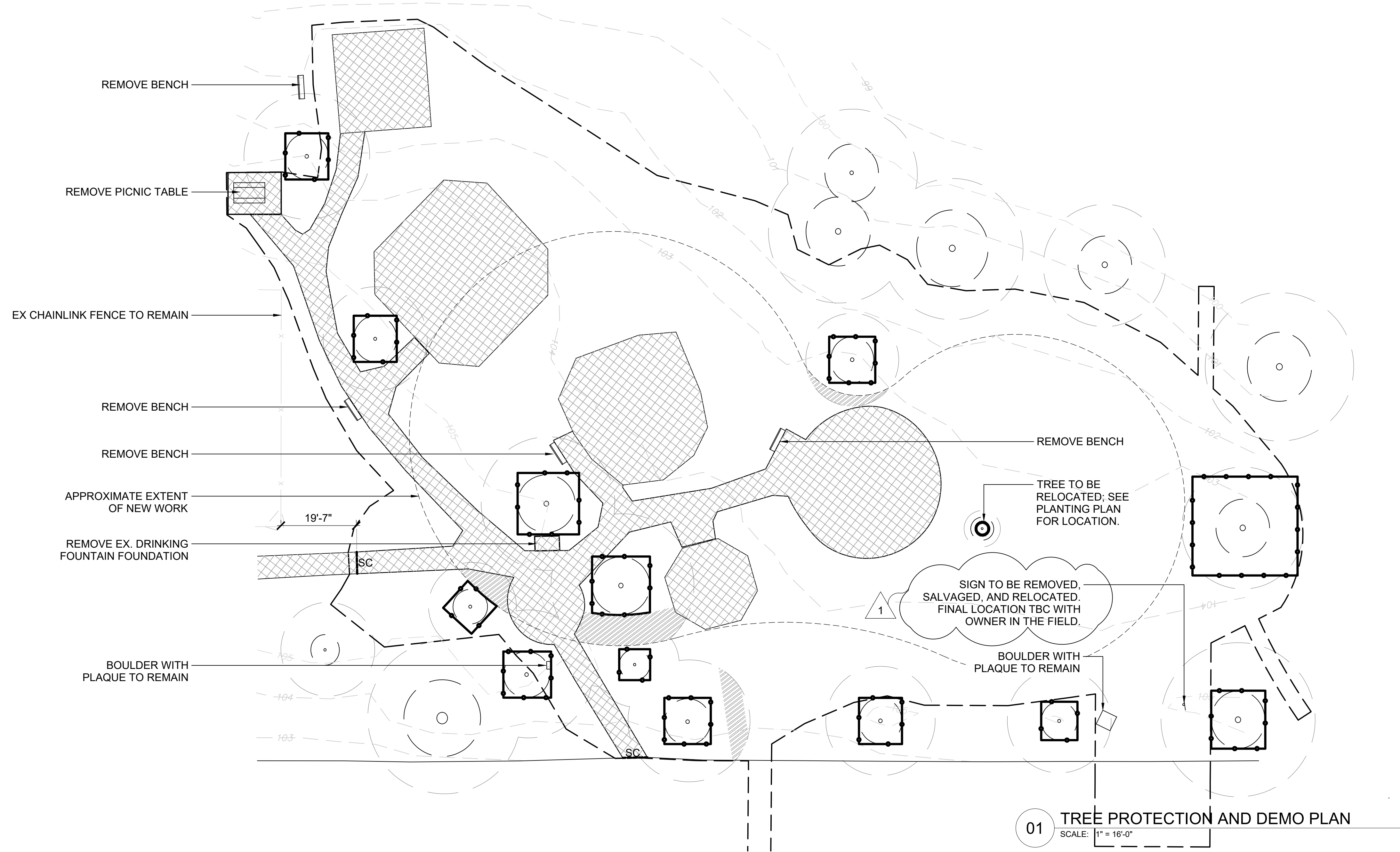
**COBBS CREEK  
PLAYGROUND**  
PHILADELPHIA, PA



JOB NO: 2131  
DATE: 07/22/2022  
DRAWN: NJ  
CHECKED: CM  
DRAWING TITLE:

**TREE  
PROTECTION AND  
DEMO PLAN**

DRAWING NO:  
**L-100**  
SHEET 03 OF 22



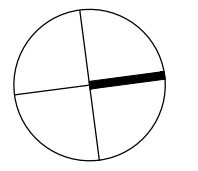
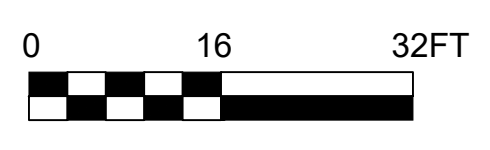
**LEGEND**

- LIMIT OF WORK, SEE C-100 FOR FULL EXTENTS
- APPROXIMATE EXTENT OF NEW WORK
- TREE PROTECTION FENCE, REFER TO 1/L202 FOR DETAILS
- REMOVE ASPHALT, CONCRETE, SAFETY SURFACE, & PLAY EQPT
- AIR EXCAVATION + ROOT PRESERVATION ZONE, REFER TO 2/L202 FOR DETAILS, REFER TO SPECIFICATIONS FOR PROCEDURES.
- APPROX. EXTENTS OF CANOPY EXISTING TREE TO REMAIN
- CRITICAL ROOT ZONE
- EXISTING TREE TO BE REMOVED AND RELOCATED
- SAW CUT EXISTING PAVEMENT

**TREE PROTECTION NOTES**

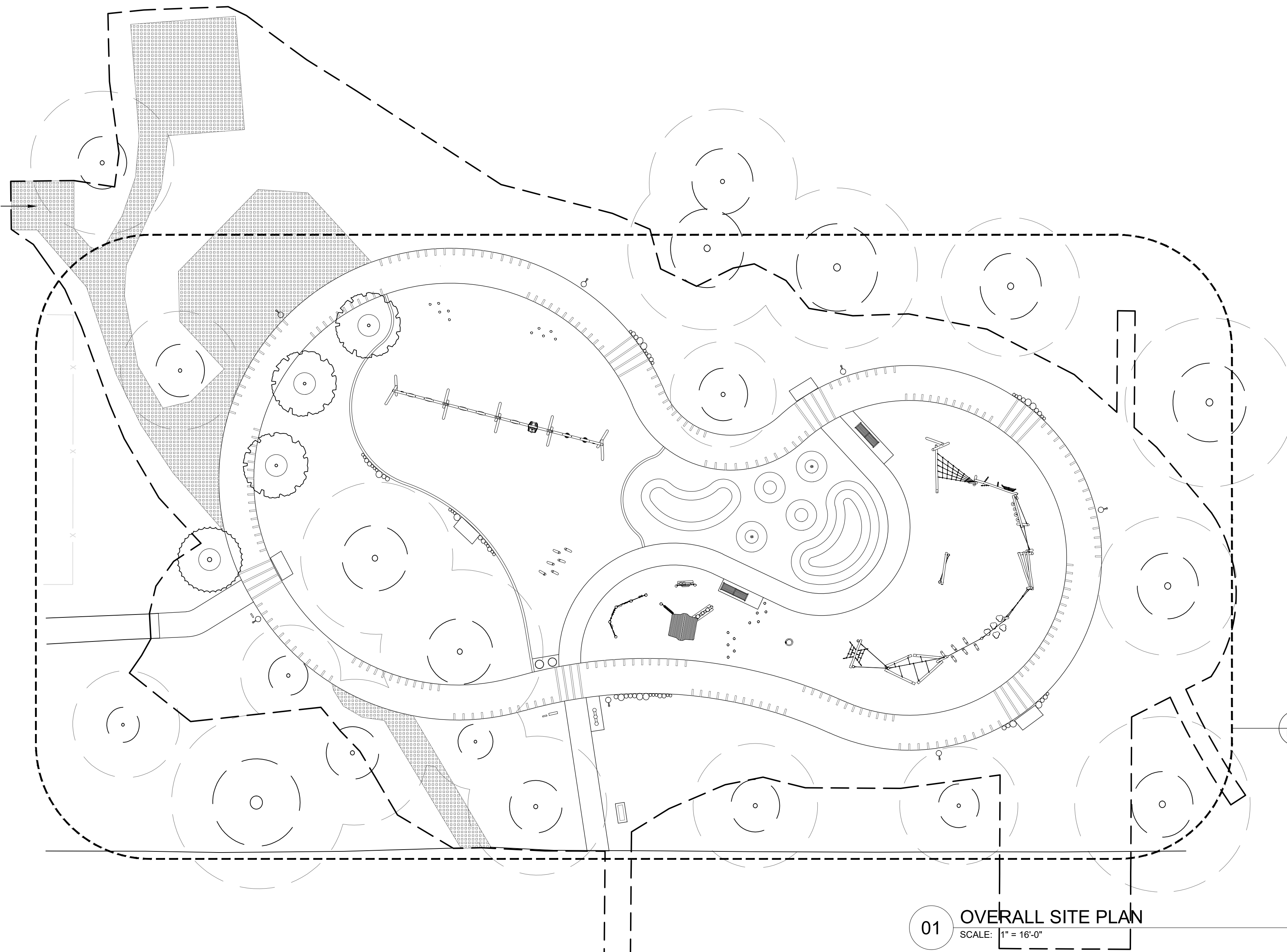
1. ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TREE PROTECTION FENCING. LOCATION OF TREE PROTECTION FENCING IS INDICATED ON DRAWINGS.
2. TREE PROTECTION FENCE SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PROCESS. IF TREE PROTECTION IS MOVED OR REMOVED FOR THE INSTALLATION OF THE 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"





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**

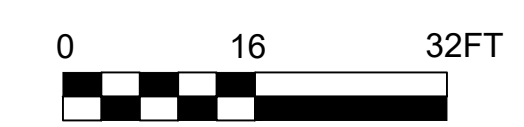
- LIMIT OF WORK, SEE C-100 FOR FULL EXTENTS
- [Hatched Box] NATURAL TURF GRASS
- (1) APPROX. EXTENTS OF CANOPY EXISTING TREE TO REMAIN  
CRITICAL ROOT ZONE
- (0) NEW TREE, SEE L300 FOR MORE INFORMATION
- (0) RELOCATED TREE, SEE SPECS FOR MORE INFORMATION

**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.
6. ALL AREAS OF NATURAL TURF GRASS DISTURBED DUE TO CONSTRUCTION ACTIVITIES MUST BE REPLACED IN KIND UNLESS OTHERWISE NOTED.

01 L102 MATERIALS, FURNISHINGS & EQUIPMENT PLAN

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



REVISIONS	NO.	DATE	DESCRIPTION
	1	08.18.2022	APPENDUM 1 REVISIONS

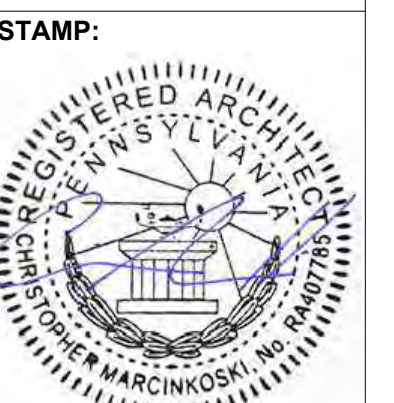
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61 Wilmington-West  
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**COBBS CREEK  
PLAYGROUND  
PHILADELPHIA, PA**



JOB NO: 2131  
DATE: 07/22/2022  
DRAWN: NJ  
CHECKED: CM  
DRAWING TITLE:

**OVERALL SITE  
PLAN**

DRAWING NO:  
**L-101**  
SHEET 04 OF 22



REVISIONS NO.	DATE	DESCRIPTION
1	08.18.2022	ADDENDUM 1 REVISIONS



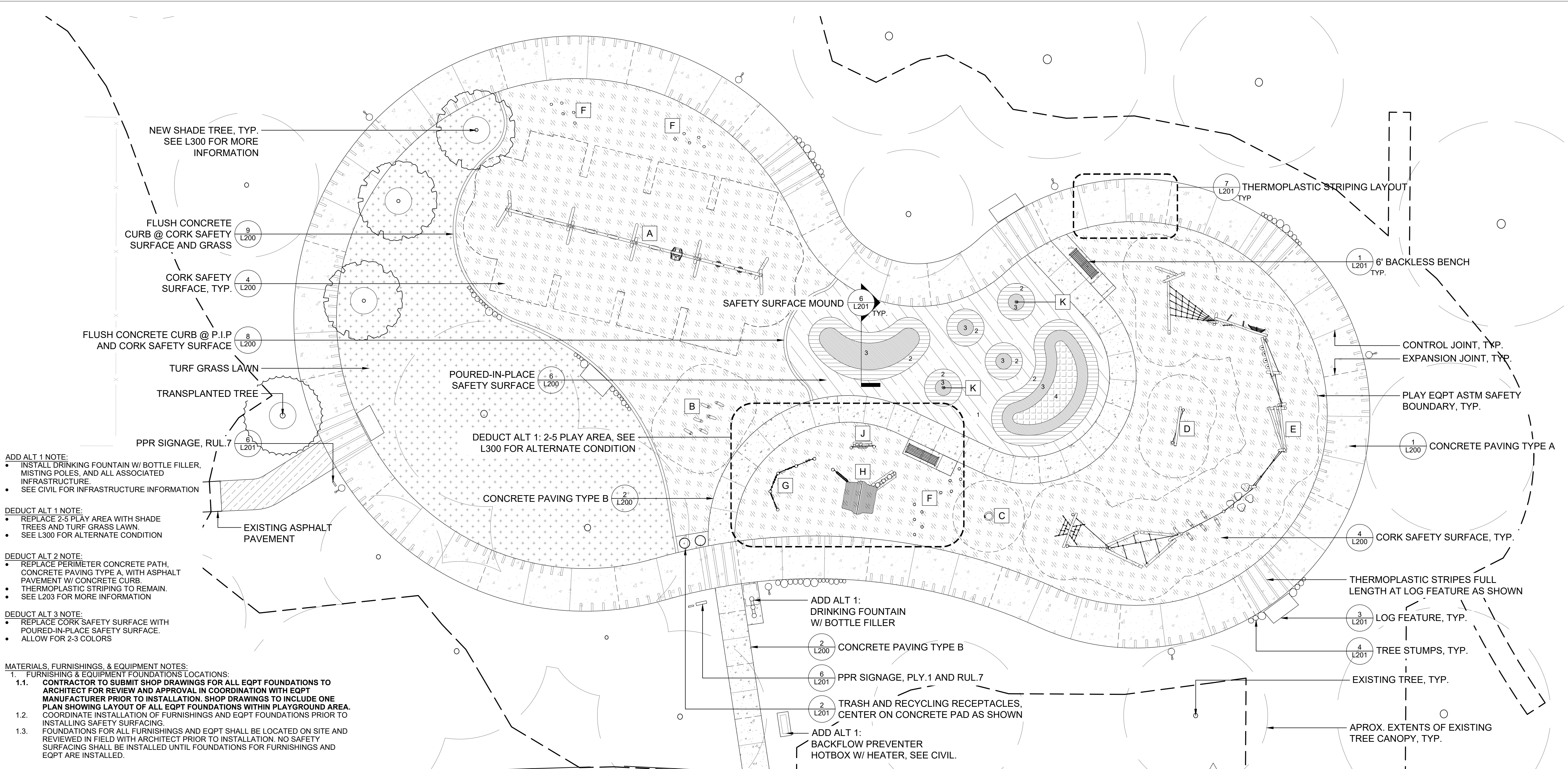
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61 Wilmington-West  
Chester Pike  
Chadds Ford, PA 19317

# 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:**

1. 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

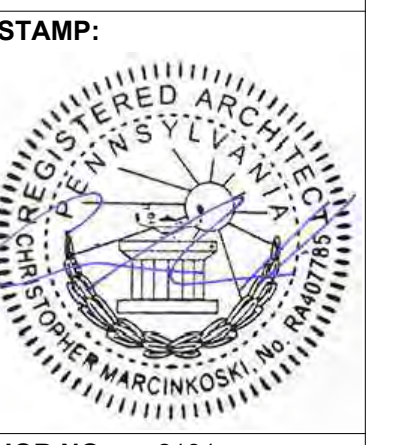
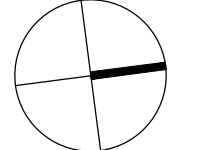
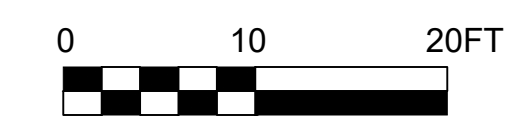
**ADD ALT 1: DRINKING FOUNTAIN AND MISTING FEATURE SCHEDULE**

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**

- LIMIT OF WORK, SEE C-100 FOR FULL EXTENTS
- - - - - ASTM SAFETY BOUNDARY
- ||| THERMOPLASTIC MARKING ON CONCRETE, VARIES
- (4) TREE STUMPS
- (3) LOG FEATURE
- ▬ TURF GRASS LAWN
- (4) CORK SAFETY SURFACE
- ▬ (6) POURED IN PLACE (P.I.P) SAFETY SURFACE (COLOR NOTED BY NUMBER)
- ▬ (2) ASPHALT PAVING
- ▬ (2) CONCRETE PAVING TYPE A
- ▬ (2) CONCRETE PAVING TYPE B
- EXPANSION JOINT
- CONTROL JOINT

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



**STAMP:**

JOB NO: 2131  
DATE: 07/22/2022  
DRAWN: NJ  
CHECKED: CM  
DRAWING TITLE:

**MATERIALS, FURNISHING & EQUIPMENT PLAN**

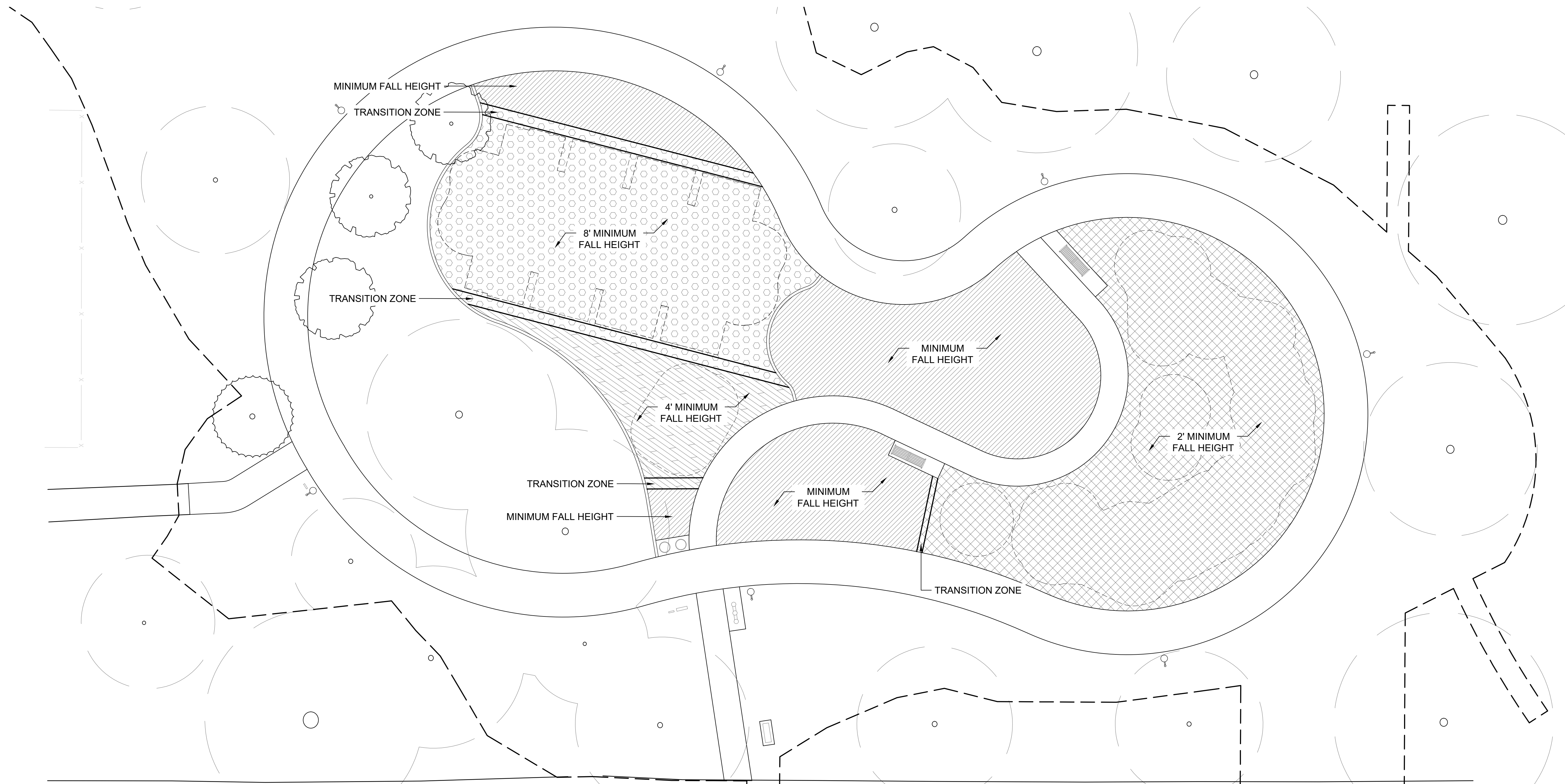
DRAWING NO:  
**L-102**  
SHEET 05 OF 22











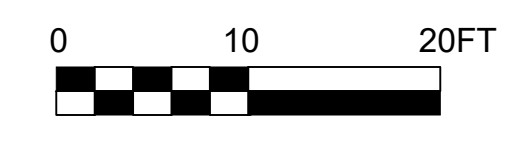
**NOTES:**

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, SEE C-100 FOR FULL EXTENTS
- ASTM SAFETY BOUNDARY
- ▭ EDGE OF PAVEMENT, SEE L-102 MATERIALS, FURNISHING, & EQUIPMENT PLAN FOR TYPES
- EXISTING TREE TO REMAIN
- APPROX. EXTENTS OF CANOPY
- ⊙ NEW TREE, SEE L300 FOR MORE INFORMATION

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



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	1	08.18.2022	ADDENDUM 1 REVISIONS

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Philadelphia, PA. 19106

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

**COBBS CREEK  
PLAYGROUND  
PHILADELPHIA, PA**

**STAMP:**



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DATE: 07/22/2022  
DRAWN: NJ  
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DRAWING TITLE:

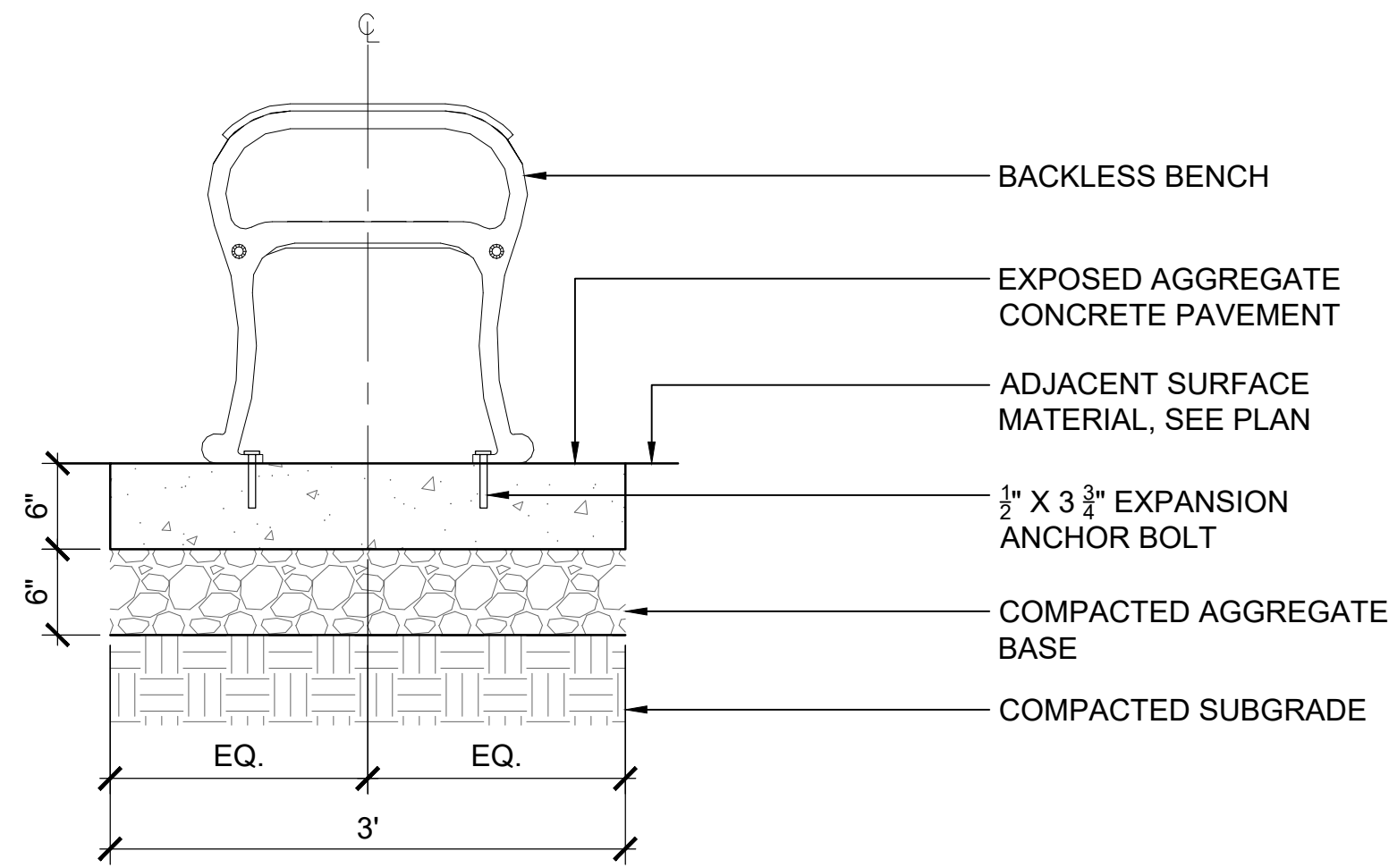
**LAYOUT PLAN**

DRAWING NO:  
**L-105**  
SHEET 08 OF 22





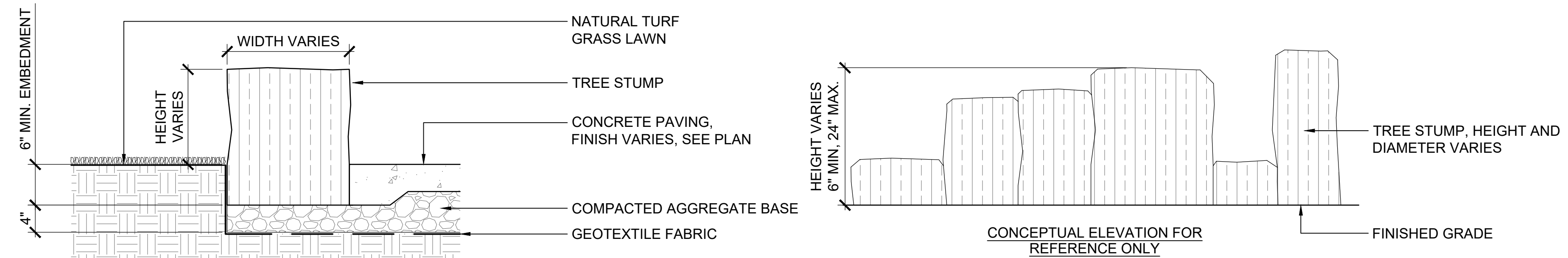




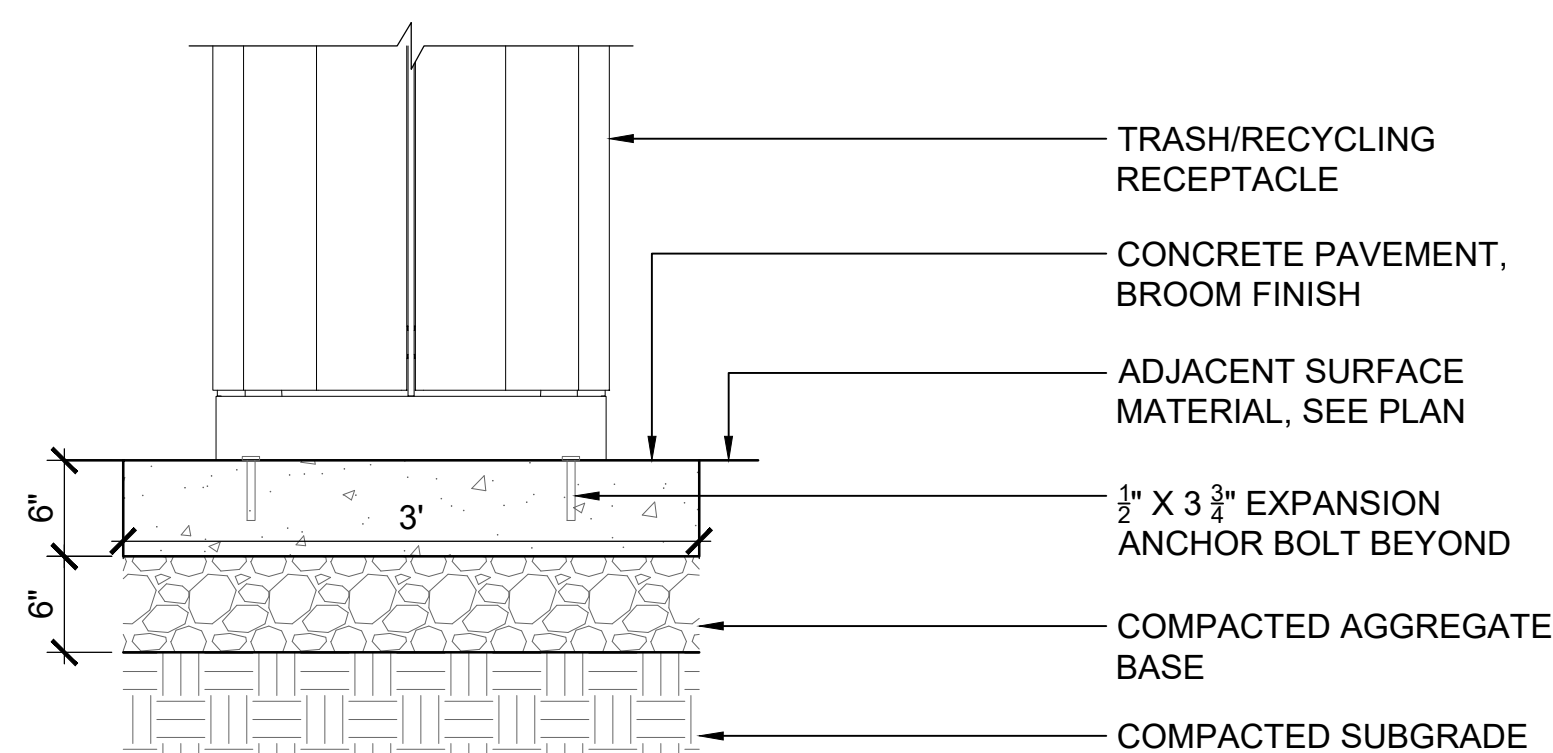
BACKLESS BENCH  
 EXPOSED AGGREGATE CONCRETE PAVEMENT  
 ADJACENT SURFACE MATERIAL, SEE PLAN  
 $\frac{1}{2}$ " X  $3\frac{3}{8}$ " EXPANSION ANCHOR BOLT  
 COMPACTED AGGREGATE BASE  
 COMPACTED SUBGRADE

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"

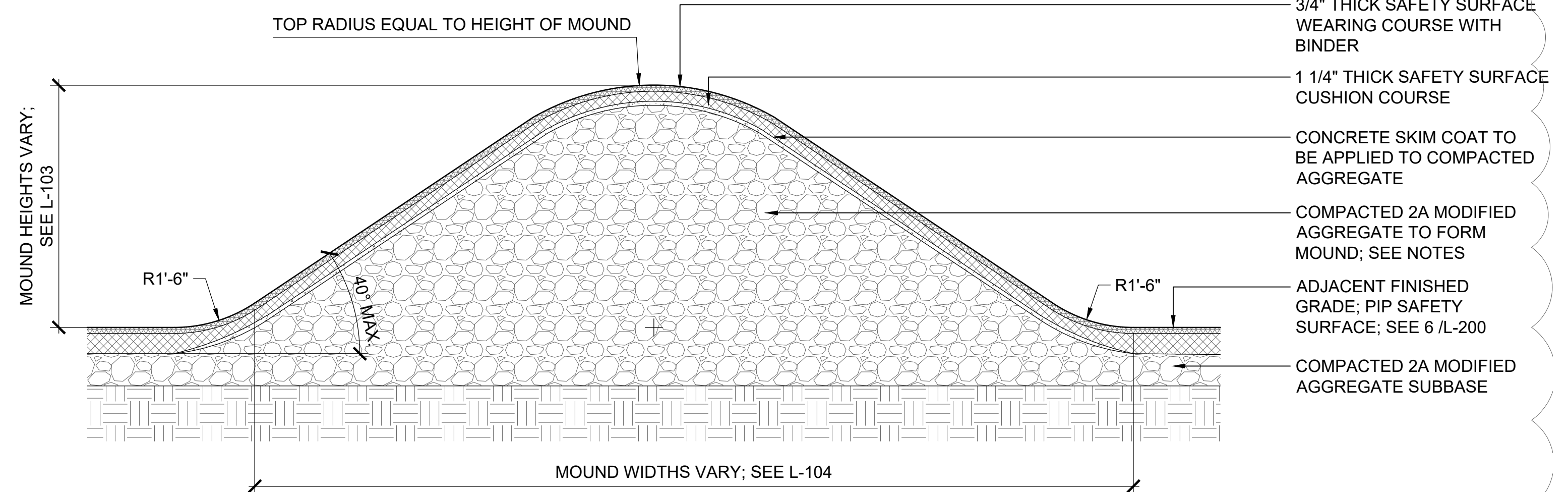


TRASH/RECYCLING RECEPTACLE  
 CONCRETE PAVEMENT, BROOM FINISH  
 ADJACENT SURFACE MATERIAL, SEE PLAN  
 $\frac{1}{2}$ " X  $3\frac{3}{8}$ " EXPANSION ANCHOR BOLT BEYOND  
 COMPACTED AGGREGATE BASE  
 COMPACTED SUBGRADE

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

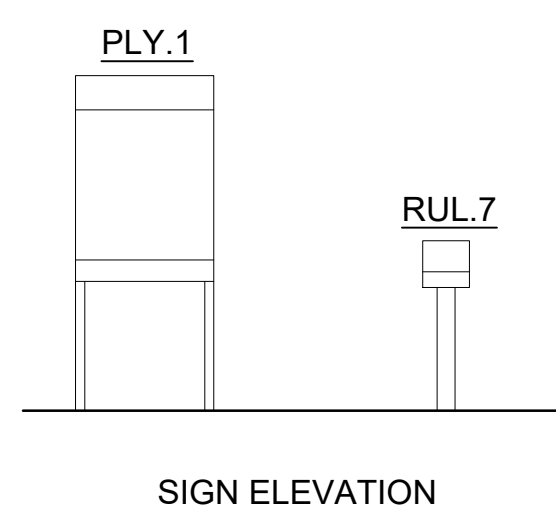
- NOTES:
- LOGS FOR FEATURES MAY BE OBTAINED FROM CITY OF PHILADELPHIA RECYCLING CENTER. 3850 W. FORD ROAD, PHILADELPHIA, PA 19131.
  - LOGS SHALL BE TAGGED BY ARCHITECT. IF LOGS ARE NOT AVAILABLE AT RECYCLING CENTER, CONTRACTOR SHALL IDENTIFY OTHER MATERIAL SOURCE AND SUBMIT TO ARCHITECT FOR APPROVAL.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

- NOTES:
- 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

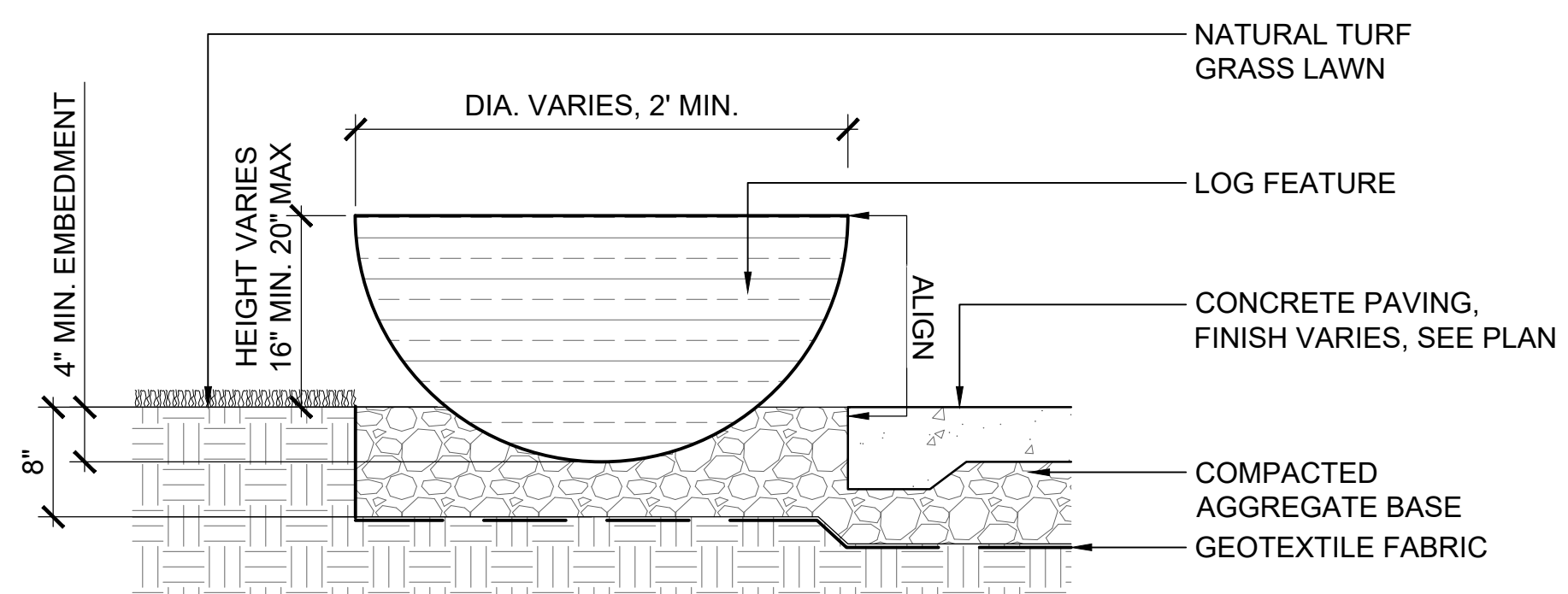


5 SAFETY SURFACE MOUND  
 SCALE: 1" = 1'-0"

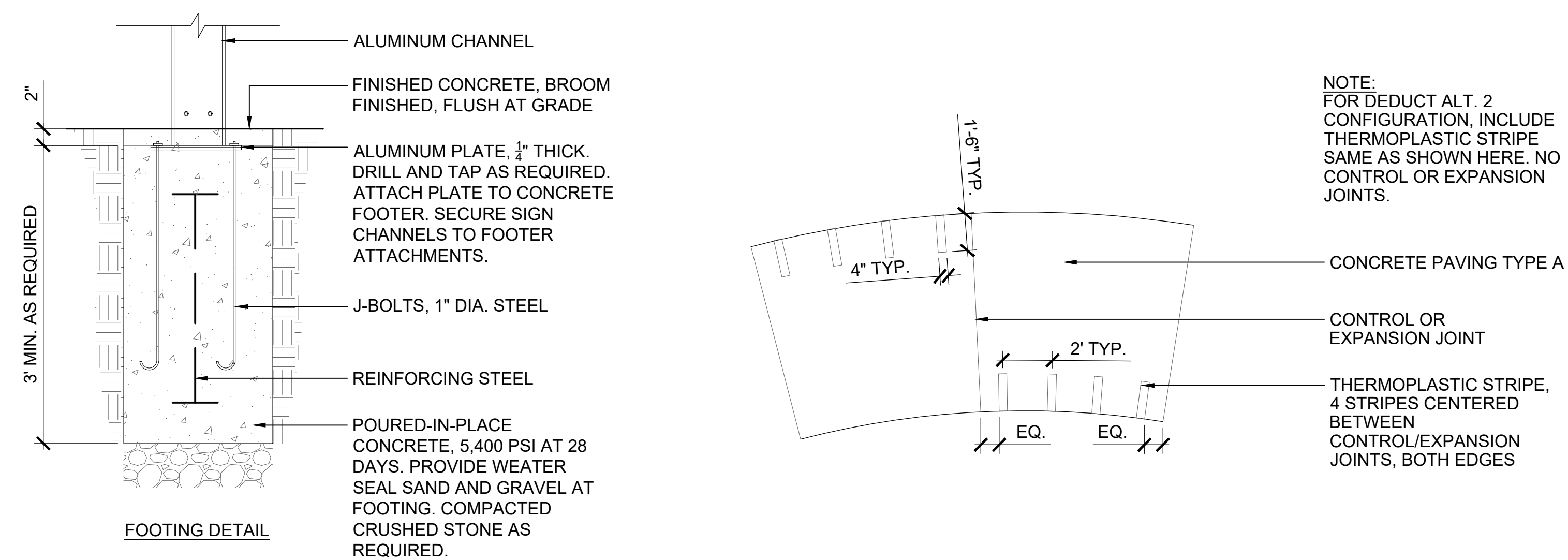
- NOTES:
- DETAIL AND ELEVATION INFORMATION FOR REFERENCE ONLY. REFER TO 'PHILADELPHIA PARKS & RECREATION SIGNAGE STANDARDS MANUAL' VERSION 1.1, JUNE 2018 OR MOST RECENT.
  - SEE SPECIFICATIONS FOR MORE INFORMATION.
  - ALL FINAL GRAPHICS TO BE APPROVED BY CLIENT/PPR.



6 PARK SIGNAGE  
 SCALE: NTS



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



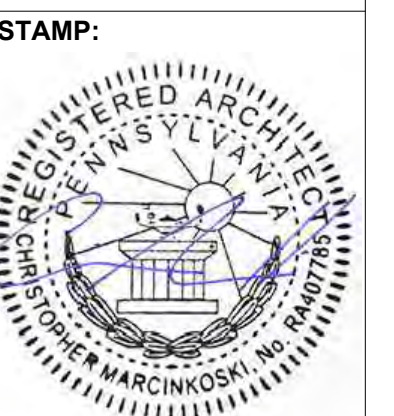
7 THERMOPLASTIC STRIPING LAYOUT  
 SCALE: 1/4" = 1'-0"

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	1	08.18.2022	ADDENDUM 1 REVISIONS

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**COBBS CREEK  
 PLAYGROUND**  
 PHILADELPHIA, PA



JOB NO: 2131  
 DATE: 07/22/2022  
 DRAWN: NJ  
 CHECKED: CM  
 DRAWING TITLE:

**SITE DETAILS**  
 DRAWING NO:  
**L-201**  
 SHEET 10 OF 22





NO.	DATE	DESCRIPTION
1	08.18.2022	ADDENDUM 1 REVISIONS



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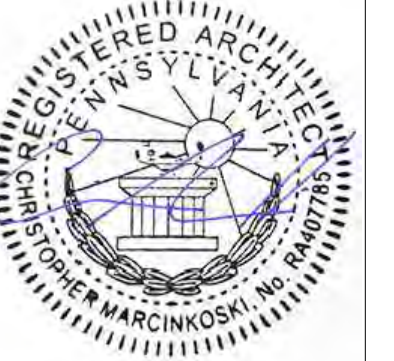
1315 Walnut Street,  
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**COBBS CREEK  
PLAYGROUND**  
PHILADELPHIA, PA

STAMP:



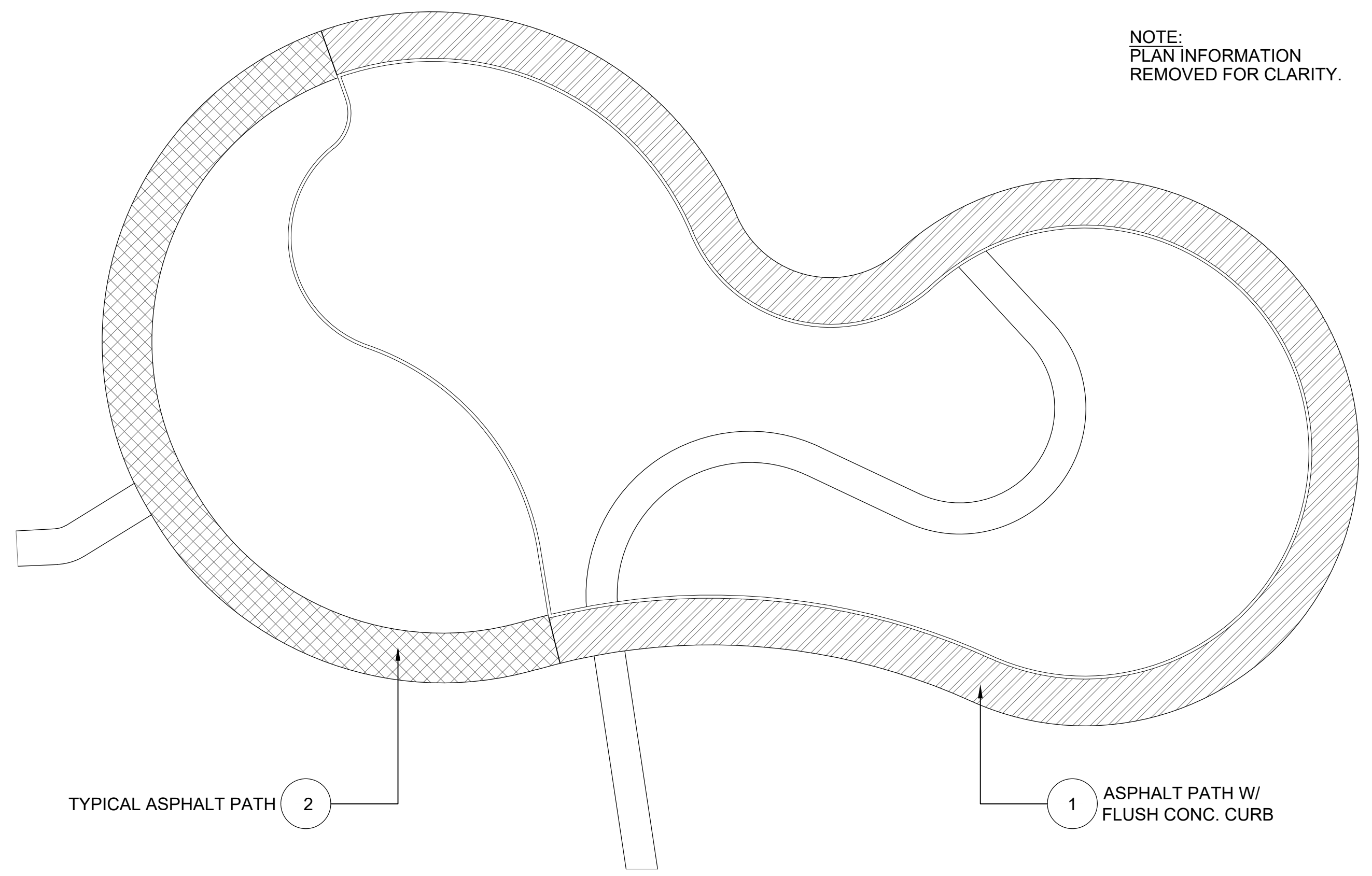
JOB NO: 2131  
DATE: 07/22/2022  
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**DEDUCT ALT 2:  
SITE DETAILS**

DRAWING NO:  
**L-203**

SHEET 12 OF 22

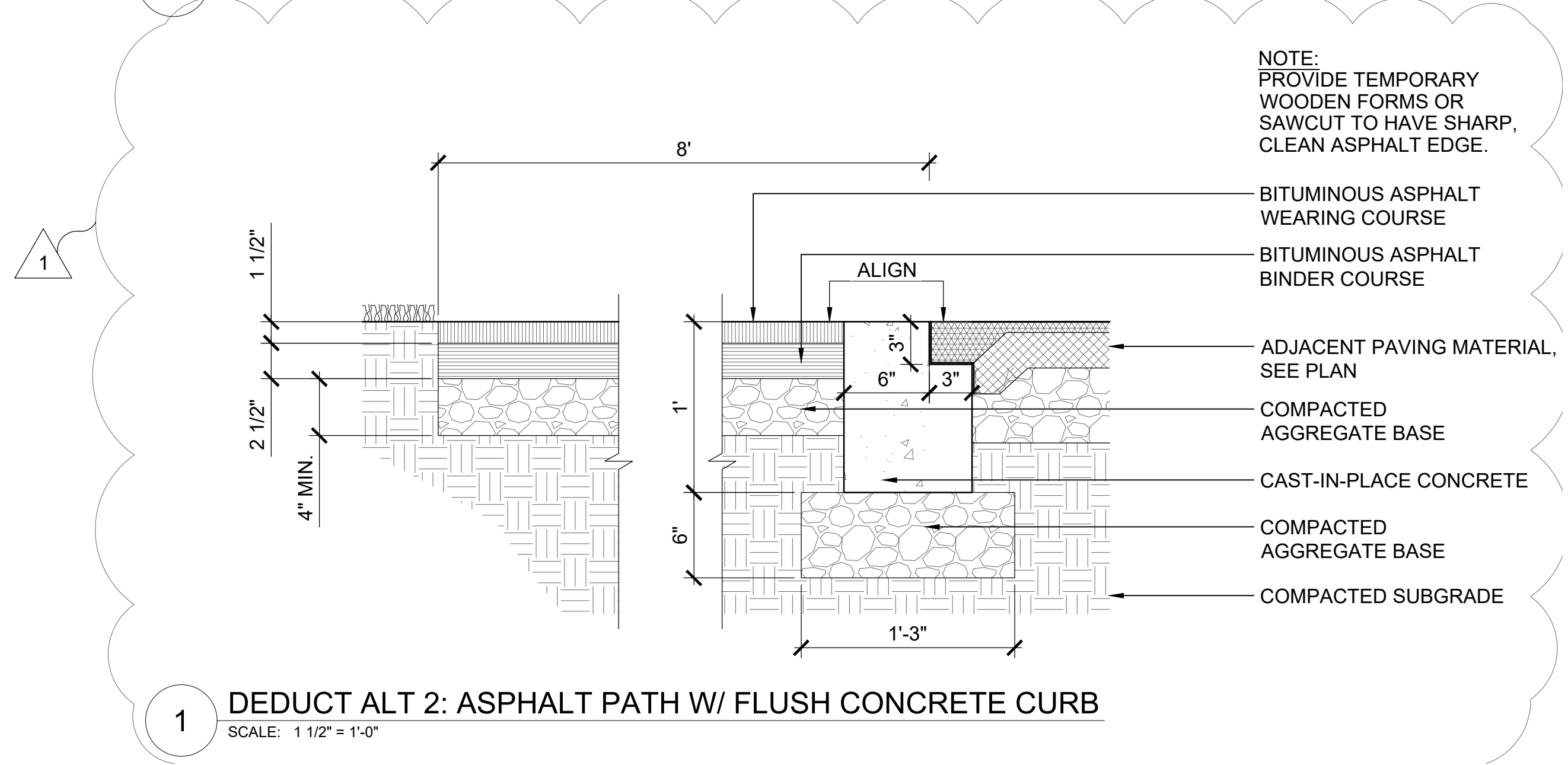
NOTE:  
PLAN INFORMATION  
REMOVED FOR CLARITY.



TYPICAL ASPHALT PATH 2

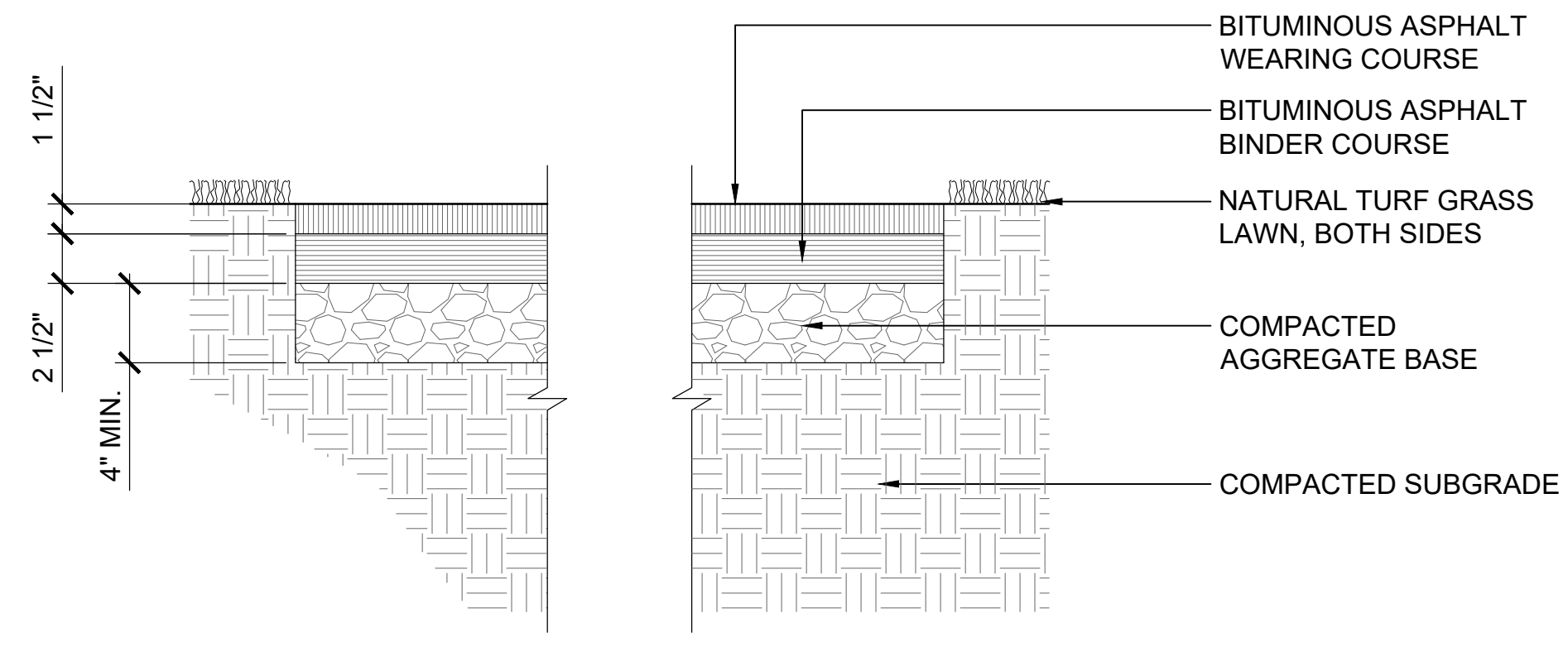
1 ASPHALT PATH W/  
FLUSH CONC. CURB

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



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

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

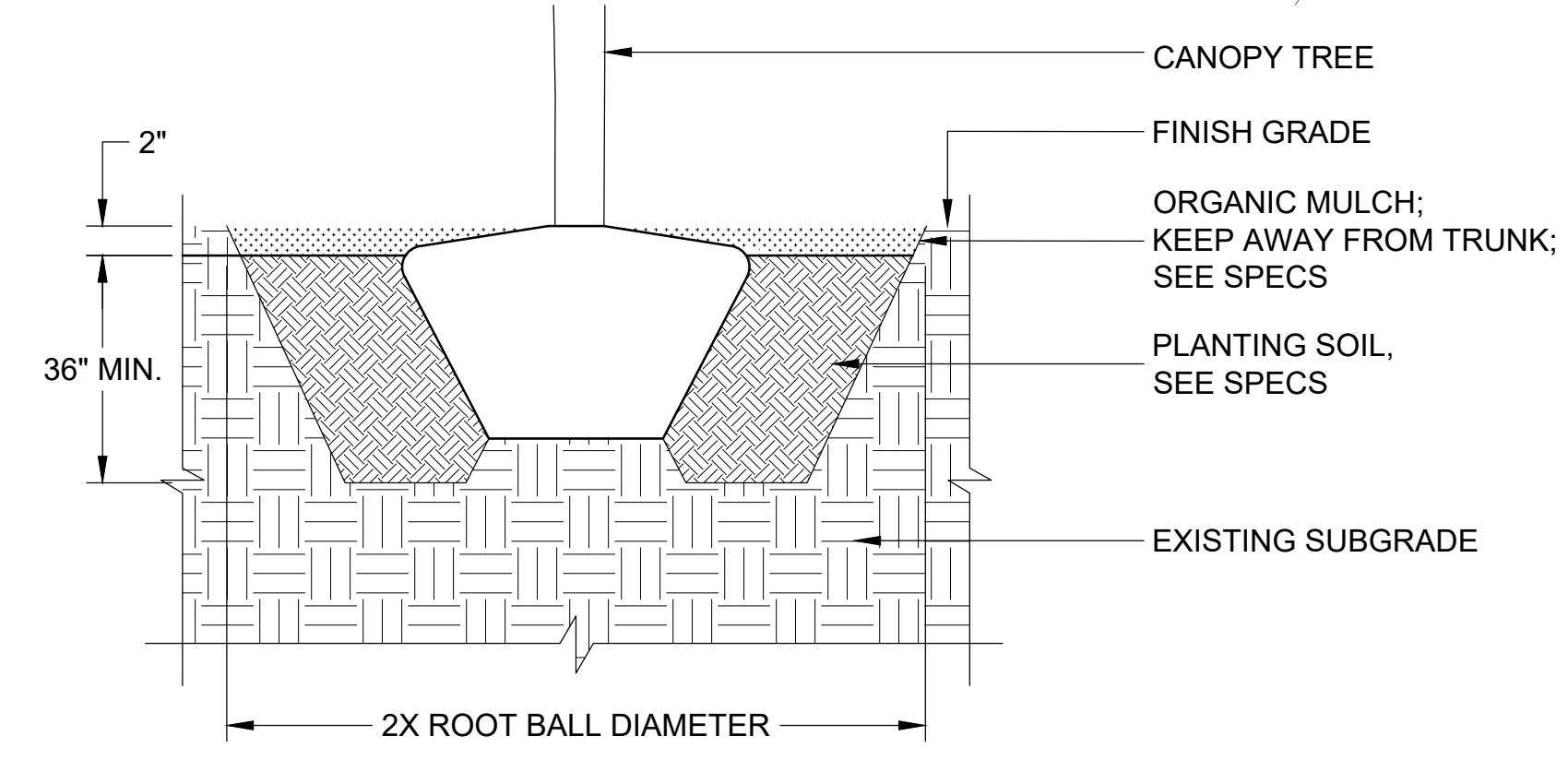
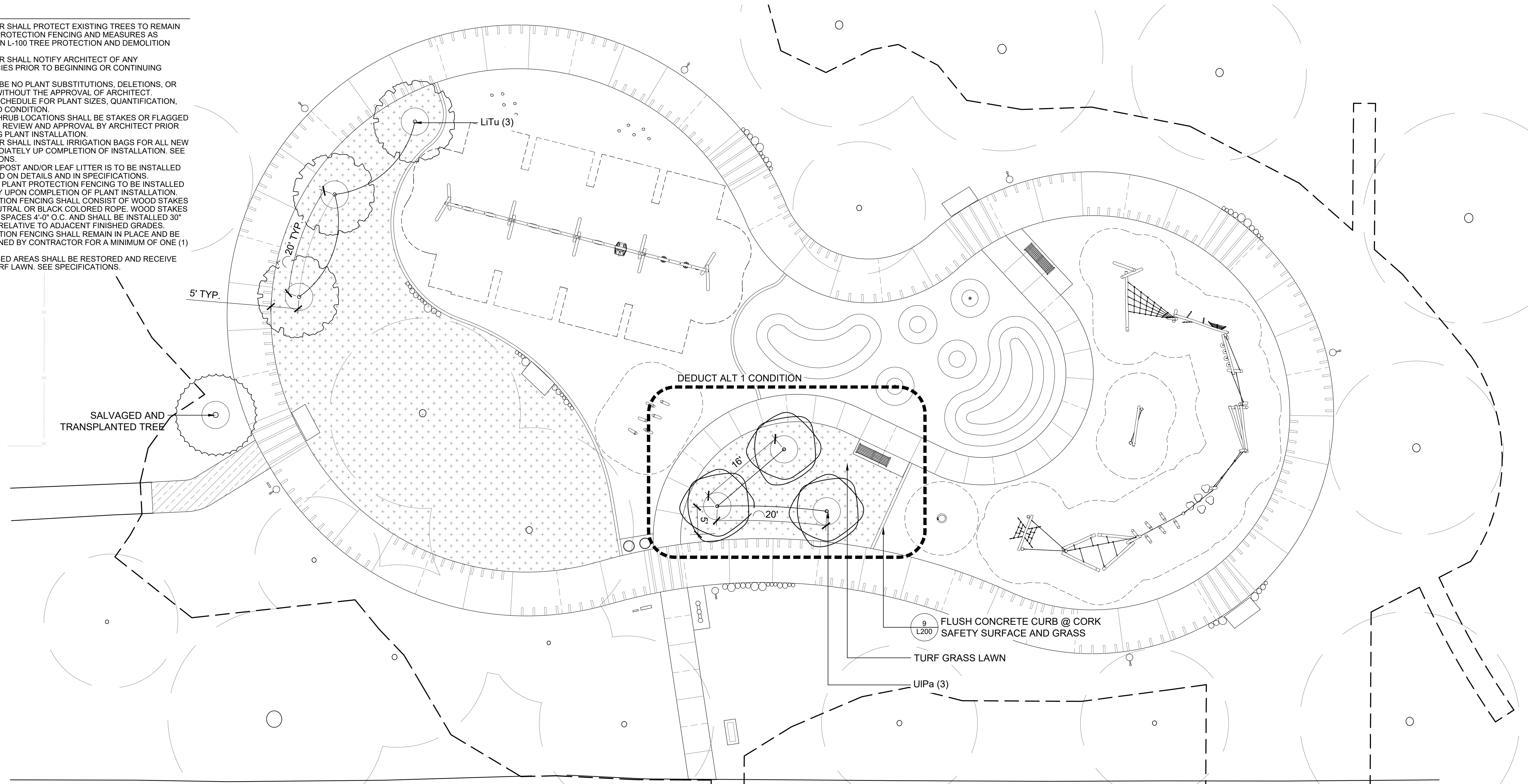


2 DEDUCT ALT 2: TYPICAL ASPHALT PATH  
SCALE: 1 1/2" = 1'-0"



PLANTING NOTES:

- CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN WITH TREE PROTECTION FENCING AND MEASURES AS INDICATED ON L-100 TREE PROTECTION AND DEMOLITION PLAN
- CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING OR CONTINUING WORK
- THERE WILL BE NO PLANT SUBSTITUTIONS, DELETIONS, OR ADDITIONS WITHOUT THE APPROVAL OF ARCHITECT.
- SEE PLANT SCHEDULE FOR PLANT SIZES, QUANTIFICATION, SPECIES AND CONDITION.
- TREE AND SHRUB LOCATIONS SHALL BE STAKES OR FLAGGED IN FIELD FOR REVIEW AND APPROVAL BY ARCHITECT PRIOR TO STARTING PLANT INSTALLATION.
- CONTRACTOR SHALL INSTALL IRRIGATION BAGS FOR ALL NEW TREES IMMEDIATELY UP COMPLETION OF INSTALLATION. SEE SPECIFICATIONS.
- MULCH, COMPOST AND/OR LEAF LITTER IS TO BE INSTALLED AS INDICATED ON DETAILS AND IN SPECIFICATIONS.
- TEMPORARY PLANT PROTECTION FENCING TO BE INSTALLED IMMEDIATELY UPON COMPLETION OF PLANT INSTALLATION.
- PROTECTION FENCING SHALL CONSIST OF WOOD STAKES AND NEUTRAL OR BLACK COLORED ROPE. WOOD STAKES SHALL BE SPACES 4'-0" O.C. AND SHALL BE INSTALLED 30" HEIGHT RELATIVE TO ADJACENT FINISHED GRADES.
- PROTECTION FENCING SHALL REMAIN IN PLACE AND BE MAINTAINED BY CONTRACTOR FOR A MINIMUM OF ONE (1) YEAR.
- ALL DISTURBED AREAS SHALL BE RESTORED AND RECEIVE NATURAL TURF LAWN. SEE SPECIFICATIONS.



PLANTING SCHEDULE:

SYMBOL	KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING
	LiTu	3	<i>Liriodendron tulipifera</i>	TULIPTREE	2.5-3" CAL.	B&B	AS SHOWN

ADD ALT 1 PLANTING SCHEDULE:

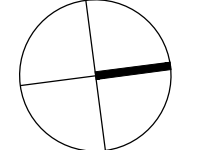
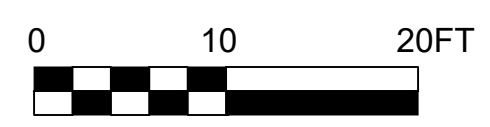
SYMBOL	KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING
	UIPa	3	<i>Ulmus x 'Patriot'</i>	PATRIOT ELM	2.5-3" CAL.	B&B	AS SHOWN

LEGEND

- LIMIT OF WORK, SEE C-100 FOR FULL EXTENTS
- NATURAL TURF GRASS LAWN
- EXISTING TREE TO REMAIN
- NEW TREE, SYMBOL VARIES, SEE PLANTING SCHEDULE

02 TREE PLANTING DETAIL  
SCALE: 1" = 1'-0"

01 PLANTING PLAN  
SCALE: 1" = 10'



REVISIONS	NO.	DATE	DESCRIPTION
	1	08.18.2022	ADDENDUM 1 REVISIONS

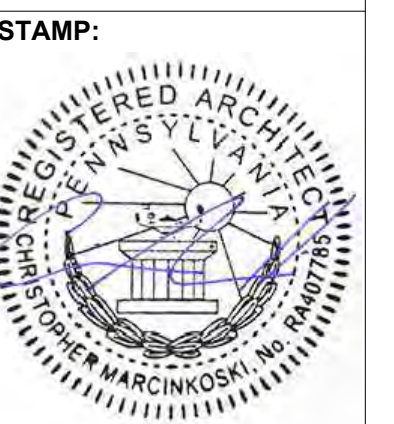


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COBBS CREEK  
PLAYGROUND  
PHILADELPHIA, PA



JOB NO: 2131  
DATE: 07/22/2022  
DRAWN: NJ  
CHECKED: CM  
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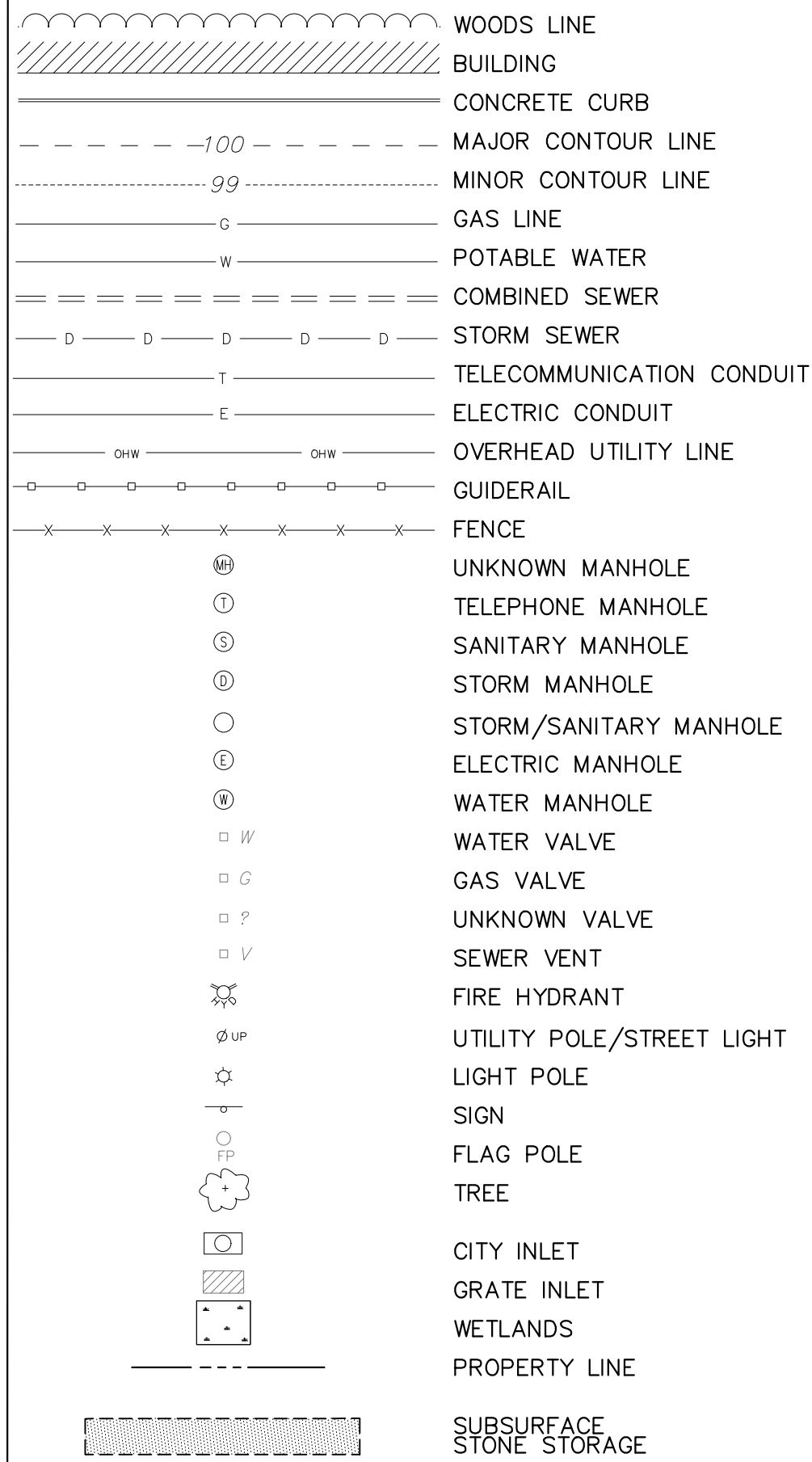
PLANTING PLAN  
AND DETAILS

DRAWING NO:  
**L-300**  
SHEET 13 OF 22

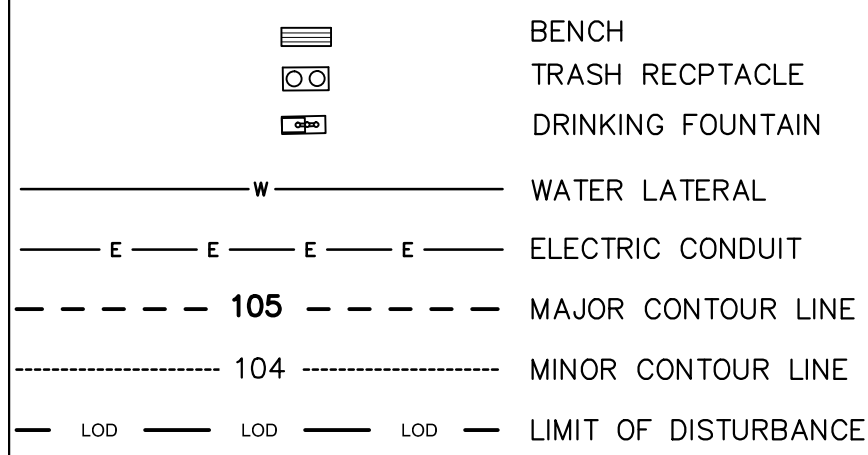


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**EXISTING LEGEND**

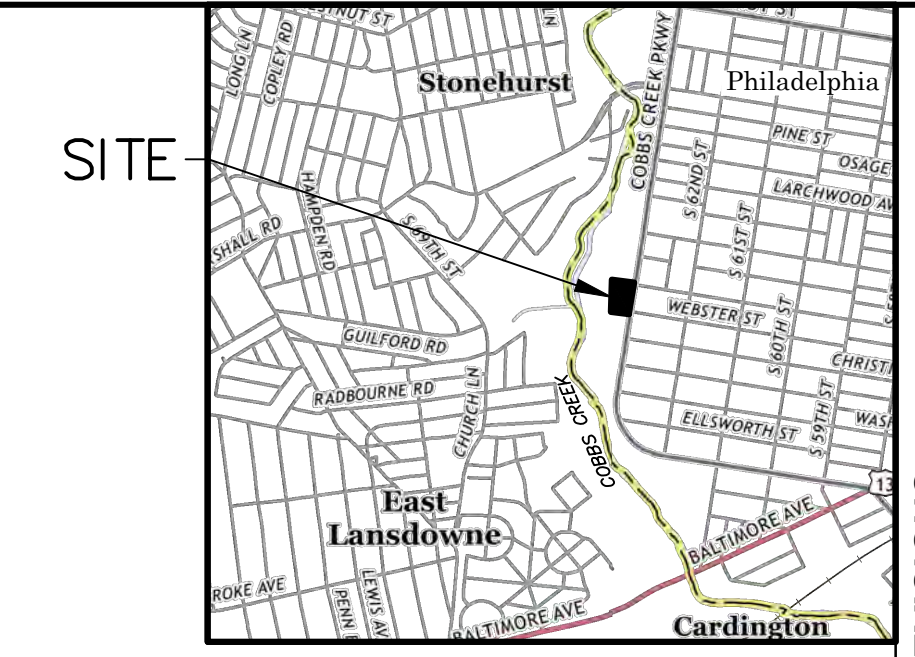


**UTILITY LEGEND**

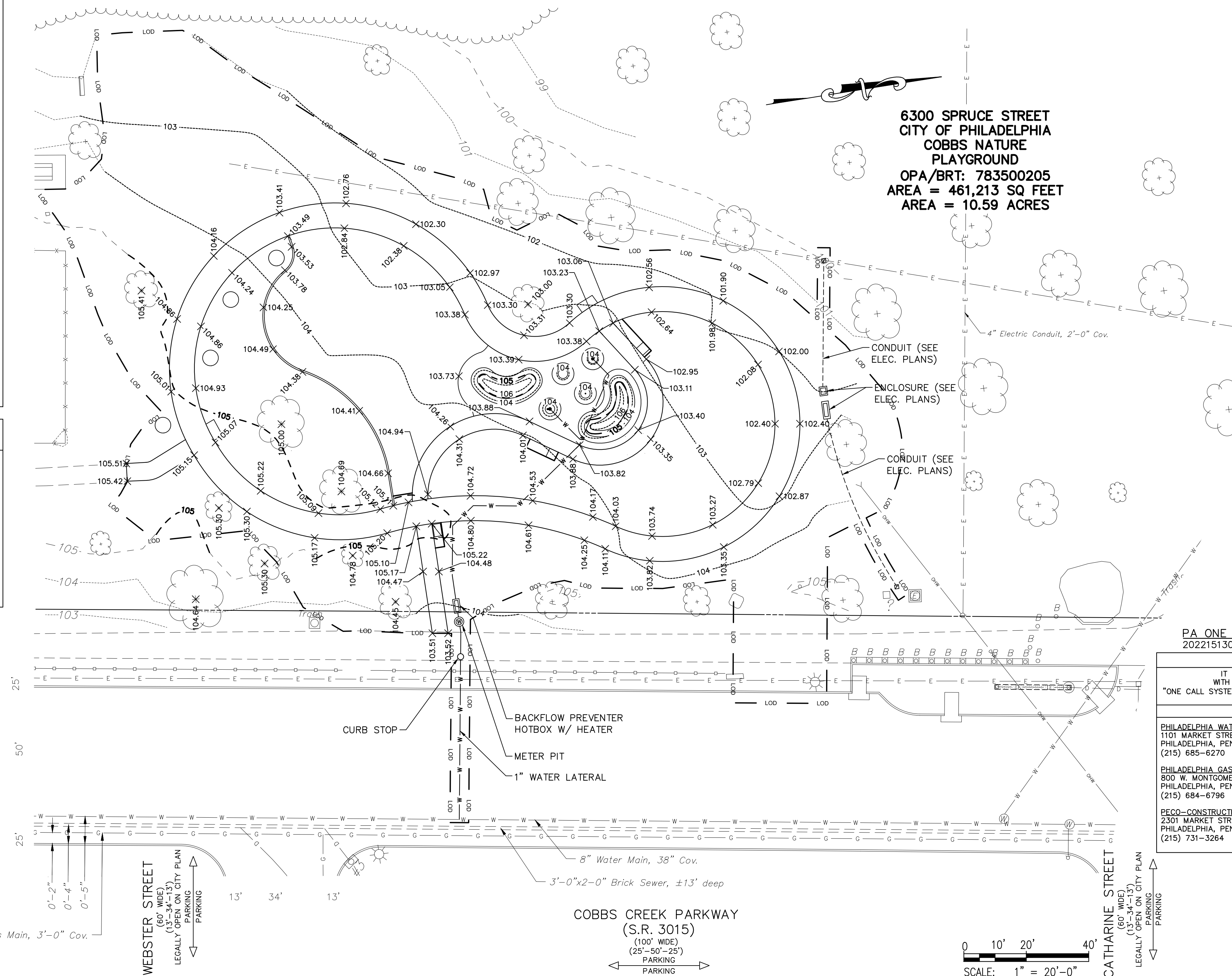


**GENERAL NOTES:**

- TOPOGRAPHIC INFORMATION SHOWN IS BASED ON A FIELD SURVEY PERFORMED BY SCI-TEK CONSULTANTS, INC., COMPLETED IN JANUARY 2021.
- HORIZONTAL DATUM: PA STATE PLANE COORDINATES (SOUTH ZONE) NAD83(2011); VERTICAL DATUM: NAVD88 (GEOID 18). GRID NORTH, BEARINGS AND ELEVATIONS WERE DERIVED FROM THE KEYNET GPS VRS NETWORK. THE STATE PLANE COORDINATES HAVE BEEN SCALED TO GROUND FROM A POINT AT N: 234949.02 AND E: 2669355.68 USING A COMBINED FACTOR OF 1.0000024745.
- SURVEY MEASUREMENTS WERE MADE IN US SURVEY FEET (US FT).
- THE ACCURACY REGARDING LOCATION AND OR DEPTH OF ALL UTILITIES CANNOT BE GUARANTEED. PRIOR TO ANY DIGGING, DRILLING, TRENCHING OR OTHER EARTHMOVING ACTIVITIES, THE CONTRACTOR SHALL VERIFY DIMENSIONS AND EXISTING CONDITIONS AT THE SITE. FOR INFORMATION REGARDING UTILITIES, CONSULT PENNSYLVANIA ONE CALL 1-800-242-1776.
- CONTOURS SHOWN WERE PRODUCED FROM AN ACTUAL GROUND SURVEY. CONTOUR INTERVAL IS 1 FOOT.
- ALL SITE WORK TO BE COMPLETED IN ACCORDANCE WITH LOCAL ORDINANCES AND SPECIFICATIONS INCLUDING, BUT NOT LIMITED TO, PHILADELPHIA DEPARTMENT OF STREETS, PHILADELPHIA WATER DEPARTMENT, AND THE PHILADELPHIA CODE.
- COBBS CREEK IS LOCATED APPROXIMATELY 285 L.F. TO THE WEST OF THE PROJECT SITE.



**VICINITY MAP**  
1" = 1000'  
DARBY & COBBS CREEKS WATERSHED  
FLOOD MANAGEMENT DISTRICT B-2  
COMBINED SEWER SERVICE AREA



**6300 SPRUCE STREET  
CITY OF PHILADELPHIA  
COBBS NATURE  
PLAYGROUND  
OPA/BRT: 783500205  
AREA = 461,213 SQ FEET  
AREA = 10.59 ACRES**

**PROPERTY OWNER:**  
CITY OF PHILADELPHIA  
COBBS NATURE PLAYGROUND  
1401 JOHN F. KENNEDY BLVD.  
PHILADELPHIA, PA 19102-1617

**PROPERTY ADDRESS:**  
6300 SPRUCE STREET  
PHILADELPHIA, PA 19122

**OPA/BRT ACCOUNT NO.:**  
783500205

**PROTECT YOURSELF**

WHAT YOU DON'T KNOW CAN HURT YOU.

CALL BEFORE YOU DIG!  
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE & 10 WORKING DAYS IN DESIGN STAGE

Pennsylvania One Call System, Inc.  
1-800-242-1776

**PA ONE CALL SERIAL NO.**  
20221513052

**ACT 187**  
IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 187 AND TO CONTACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR TO START OF CONSTRUCTION.

PENNSYLVANIA ONE CALL: 1-800-242-1776

<b>PHILADELPHIA WATER DEPARTMENT</b> 1101 MARKET STREET, 2nd FLOOR PHILADELPHIA, PENNSYLVANIA (215) 685-6270	<b>VERIZON</b> 900 RACE STREET PHILADELPHIA, PENNSYLVANIA 19107 (215) 351-8947
<b>PHILADELPHIA GAS WORKS</b> 800 W. MONTGOMERY AVENUE, 3RD FLOOR PHILADELPHIA, PENNSYLVANIA 19122 (215) 684-6796	<b>COMCAST</b> 1351 S. COLUMBUS BOULEVARD PHILADELPHIA, PENNSYLVANIA 19147 (215) 952-4935

**PECO-CONSTRUCTION DEPARTMENT**  
2301 MARKET STREET  
PHILADELPHIA, PENNSYLVANIA 19103  
(215) 731-3264

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Philadelphia, PA. 19107

**CIVIL ENGINEER**  
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Philadelphia, PA. 19106

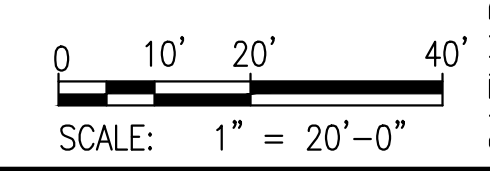
**MEP ENGINEER**  
Arora Engineers, Inc.  
611 Wilmington-West  
Chester Pike  
Chadds Ford, PA 19317

**COBBS CREEK  
PLAYGROUND  
PHILADELPHIA, PA**

**STAMP:**  
FRANK ANTHONY FRECA  
PA P.E. LICENSE NO. PE041602R

**JOB NO:** 2131  
**DATE:** 07/22/2022  
**DRAWN:** RDC  
**CHECKED:** RSB  
**DRAWING TITLE:**  
GRADING AND UTILITY PLAN  
**DRAWING NO:**  
**C-100**  
**SHEET 14 OF 22**

**KSE** **KS ENGINEERS, P.C.**  
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530 WALNUT STREET SUITE 460  
PHILADELPHIA, PENNSYLVANIA 19106  
PHONE: 215.925.0425 • FAX: 215.925.0430





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**EXISTING LEGEND**

	WOODS LINE
	BUILDING
	CONCRETE CURB
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	GAS LINE
	POTABLE WATER
	COMBINED SEWER
	STORM SEWER
	TELECOMMUNICATION CONDUIT
	ELECTRIC CONDUIT
	OVERHEAD UTILITY LINE
	GUIDERAIL
	FENCE
	UNKNOWN MANHOLE
	TELEPHONE MANHOLE
	SANITARY MANHOLE
	STORM MANHOLE
	STORM/SANITARY MANHOLE
	ELECTRIC MANHOLE
	WATER MANHOLE
	WATER VALVE
	GAS VALVE
	UNKNOWN VALVE
	SEWER VENT
	FIRE HYDRANT
	UTILITY POLE/STREET LIGHT
	LIGHT POLE
	SIGN
	FLAG POLE
	TREE
	CITY INLET
	GRATE INLET
	WETLANDS
	PROPERTY LINE
	SUBSURFACE STONE STORAGE

**EROSION CONTROL LEGEND**

	BENCH
	TRASH RECEPTACLE
	DRINKING FOUNTAIN
	REMOVE TREE
	LIMIT OF DISTURBANCE AND PROJECT SITE BOUNDARY
	TEMPORARY CONSTRUCTION FENCE
	PROPOSED OVERLAND FLOW ARROW
	105 MAJOR CONTOUR LINE
	104 MINOR CONTOUR LINE
	PROPOSED CURB
	8" COMPOST FILTER SOCK
	12" COMPOST FILTER SOCK
	FILTER BAG INLET PROTECTION
	STONE INLET PROTECTION
	COMPOST FILTER SOCK INLET PROTECTION

**GENERAL NOTES:**

1. TOPOGRAPHIC INFORMATION SHOWN IS BASED ON A FIELD SURVEY PERFORMED BY SCI-TEK CONSULTANTS, INC., COMPLETED IN JANUARY 2021.
2. HORIZONTAL DATUM: PA STATE PLANE COORDINATES (SOUTH ZONE) NAD83(2011); VERTICAL DATUM: NAVD88 (GEOID 18). GRID NORTH, BEARINGS AND ELEVATIONS WERE DERIVED FROM THE KEYNET GPS VRS NETWORK. THE STATE PLANE COORDINATES HAVE BEEN SCALED TO GROUND FROM A POINT AT N: 234949.02 AND E: 2669355.68 USING A COMBINED FACTOR OF 1.000024745.
3. SURVEY MEASUREMENTS WERE MADE IN US SURVEY FEET (US FT).
4. THE ACCURACY REGARDING LOCATION AND OR DEPTH OF ALL UTILITIES CANNOT BE GUARANTEED. PRIOR TO ANY DIGGING, DRILLING, TRENCHING OR OTHER EARTHMOVING ACTIVITIES, THE CONTRACTOR SHALL VERIFY DIMENSIONS AND EXISTING CONDITIONS AT THE SITE. FOR INFORMATION REGARDING UTILITIES, CONSULT PENNSYLVANIA ONE CALL 1-800-242-1776.
5. CONTOURS SHOWN WERE PRODUCED FROM AN ACTUAL GROUND SURVEY. CONTOUR INTERVAL IS 1 FOOT.
6. ALL SITE WORK TO BE COMPLETED IN ACCORDANCE WITH LOCAL ORDINANCES AND SPECIFICATIONS INCLUDING, BUT NOT LIMITED TO, PHILADELPHIA DEPARTMENT OF STREETS, PHILADELPHIA WATER DEPARTMENT, AND THE PHILADELPHIA CODE.
7. COBBS CREEK IS LOCATED APPROXIMATELY 285 L.F. TO THE WEST OF THE PROJECT SITE.

**EROSION CONTROL NOTES:**

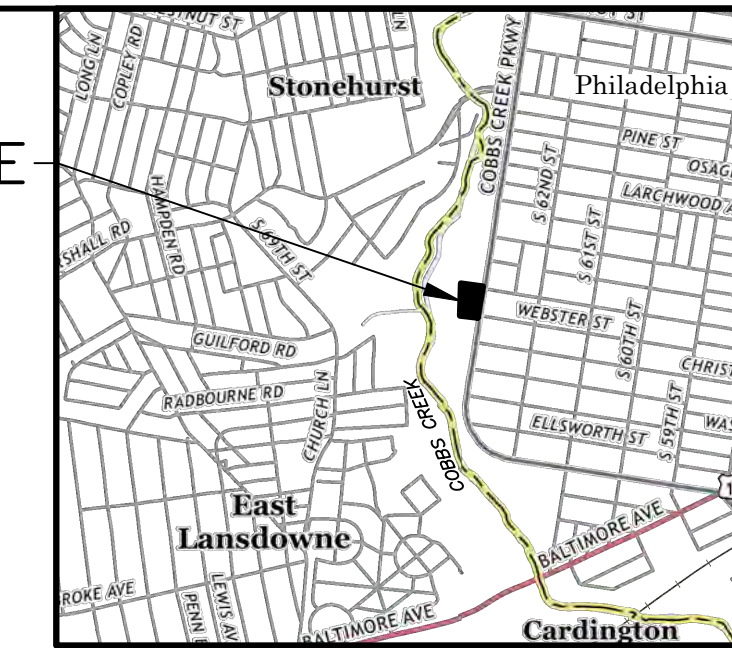
1. ALL INLETS WITHIN 1 BLOCK OF LIMIT OF DISTURBANCE SHALL HAVE INLET PROTECTION INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.

SOIL SYMBOL	SOIL DESCRIPTION	% OF SITE	RUNOFF CLASS	HYDRIC SOIL	SLOPE RANGE	DEPTH
Ub	URBAN-LAND	100.00%	VERY HIGH	NO	0-8%	0"-10"

**LIMIT OF DISTURBANCE (LOD) SUMMARY TABLE**

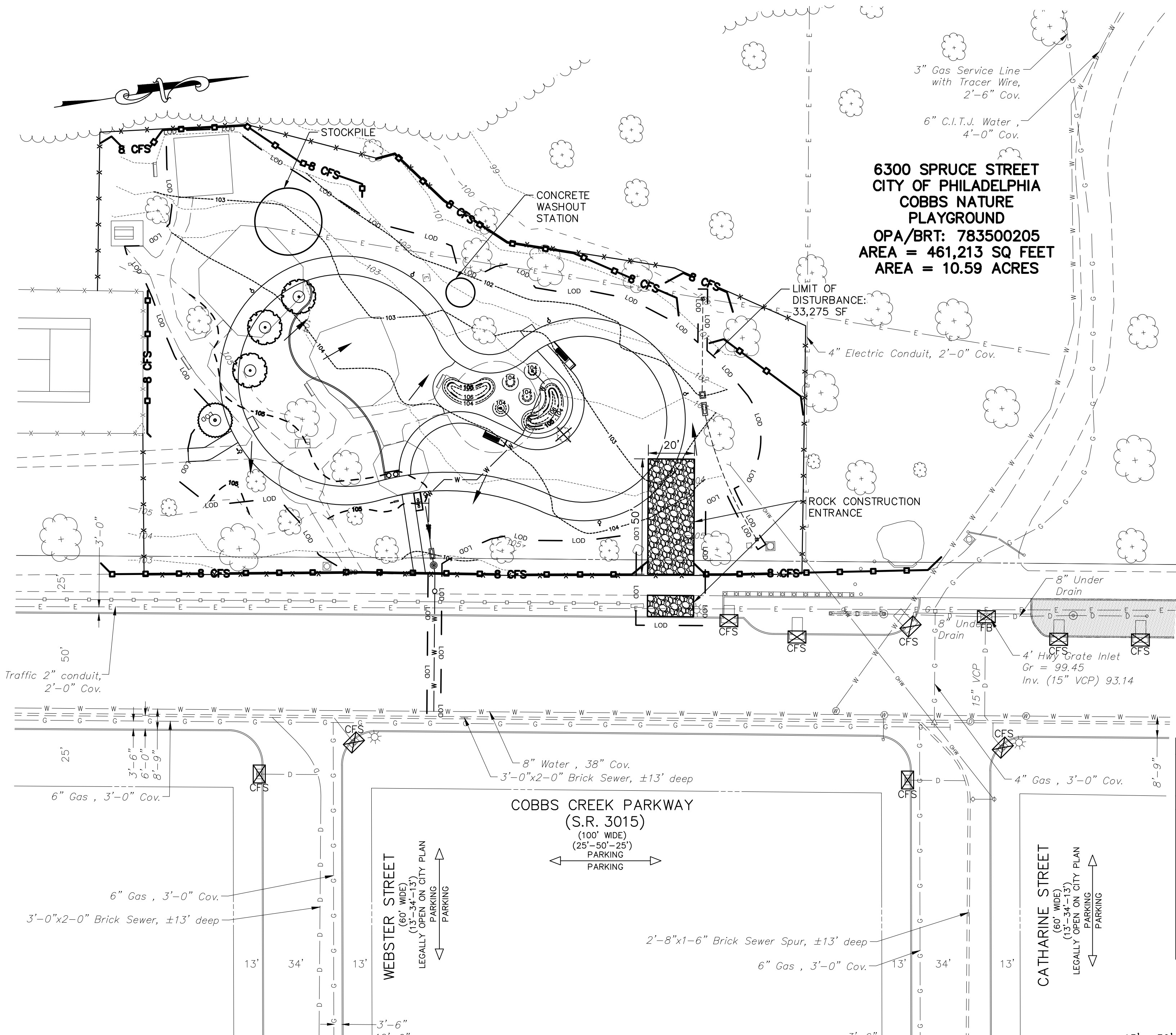
DESCRIPTION	AREA (S.F.)	ACRES
TOTAL SITE AREA	461,213 S.F.	10.59 ACRES
LOD ON SITE	31,749 S.F.	0.73 ACRES
LOD IN R.O.W.	1,526 S.F.	0.04 ACRES
TOTAL LOD	33,275 S.F.	0.76 ACRES

SITE



**VICINITY MAP**

1" = 1000'  
 DARBY & COBBS CREEKS WATERSHED  
 FLOOD MANAGEMENT DISTRICT B-2  
 COMBINED SEWER SERVICE AREA



**PROPERTY OWNER:**

CITY OF PHILADELPHIA  
 COBBS NATURE PLAYGROUND  
 1401 JOHN F. KENNEDY BLVD.  
 PHILADELPHIA, PA 19102-1617

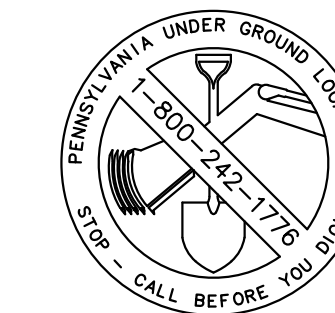
**PROPERTY ADDRESS:**

6300 SPRUCE STREET  
 PHILADELPHIA, PA 19122

**OPA/BRT ACCOUNT NO.:**

783500205

**PROTECT YOURSELF**



WHAT YOU DON'T KNOW CAN HURT YOU.

CALL BEFORE YOU DIG!  
 PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE & 10 WORKING DAYS IN DESIGN STAGE  
 Pennsylvania One Call System, Inc.  
 1-800-242-1776

PA ONE CALL SERIAL NO.  
 20221513052

ACT 187	
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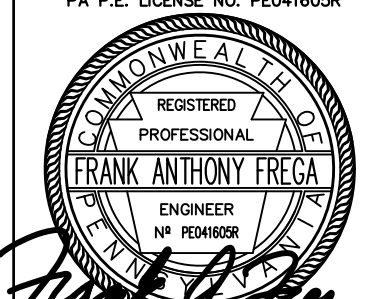
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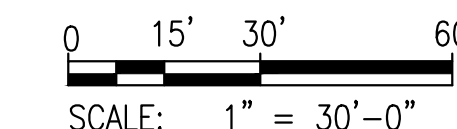
**EROSION CONTROL PLAN**

DRAWING NO:  
**C-200**  
 SHEET 15 OF 22



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PWD TRACKING NO.: FY22-COBB-6972-01

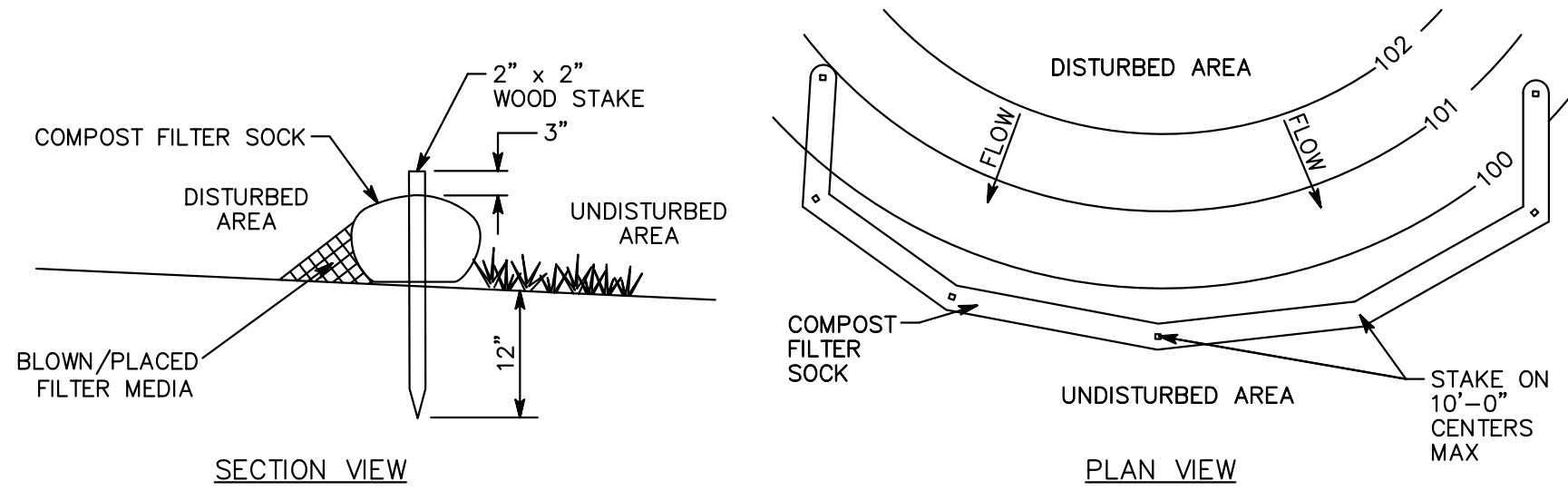




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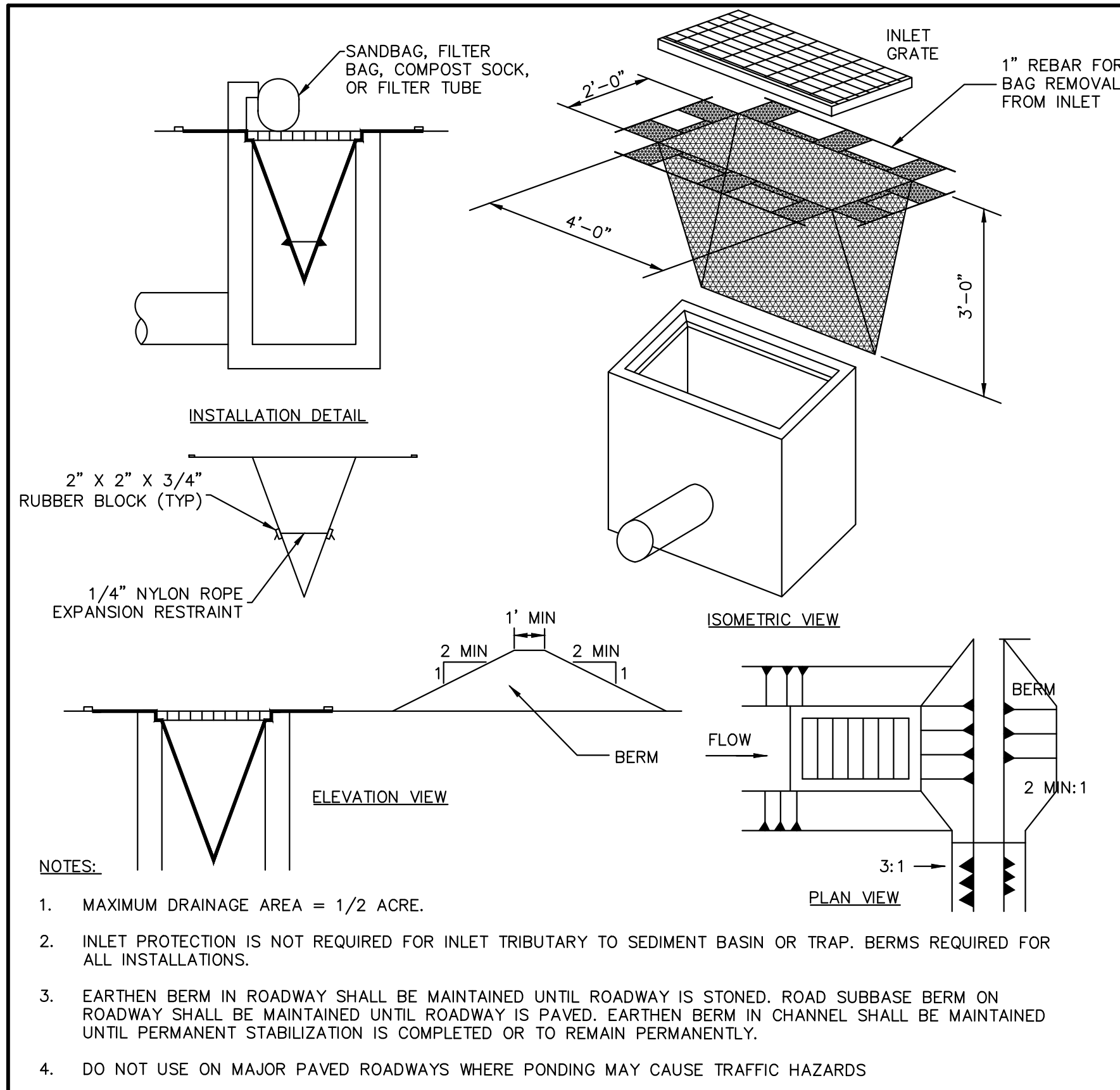
Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)
<b>Material Characteristics</b>	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
<b>Sock Diameters</b>	12" 18"	12" 18" 24"	12" 18" 24"	12" 18" 24" 32"	12" 18" 24" 32"
<b>Mesh Opening</b>	3/8"	3/8"	3/8"	3/8"	1/8"
<b>Tensile Strength</b>		26 psi	26 psi	44 psi	202 psi
<b>Ultraviolet Stability % Original Strength (ASTM G-155)</b>	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.
<b>Minimum Functional Longevity</b>	6 months	9 months	6 months	1 year	2 years
<b>Two-ply systems</b>		<b>HDPE biaxial net</b>			
Inner Containment Netting		Continuously wound Fusion-welded junctures 3/4" X 3/4" Max. aperture size			
Outer Filtration Mesh		Composite Polypropylene Fabric (Woven layer and non-woven fleece mechanically fused via needle punch) 3/16" Max. aperture size			
Sock fabrics composed of burlap may be used on projects lasting 6 months or less.					

Organic Matter Content	80% - 100% (dry weight basis)
Organic Portion	Fibrous and elongated
pH	5.5 - 8.0
Moisture Content	35% - 55%
Particle Size	98% pass through 1" screen
Soluble Salt Concentration	5.0 dSm (mmhos/cm) Maximum



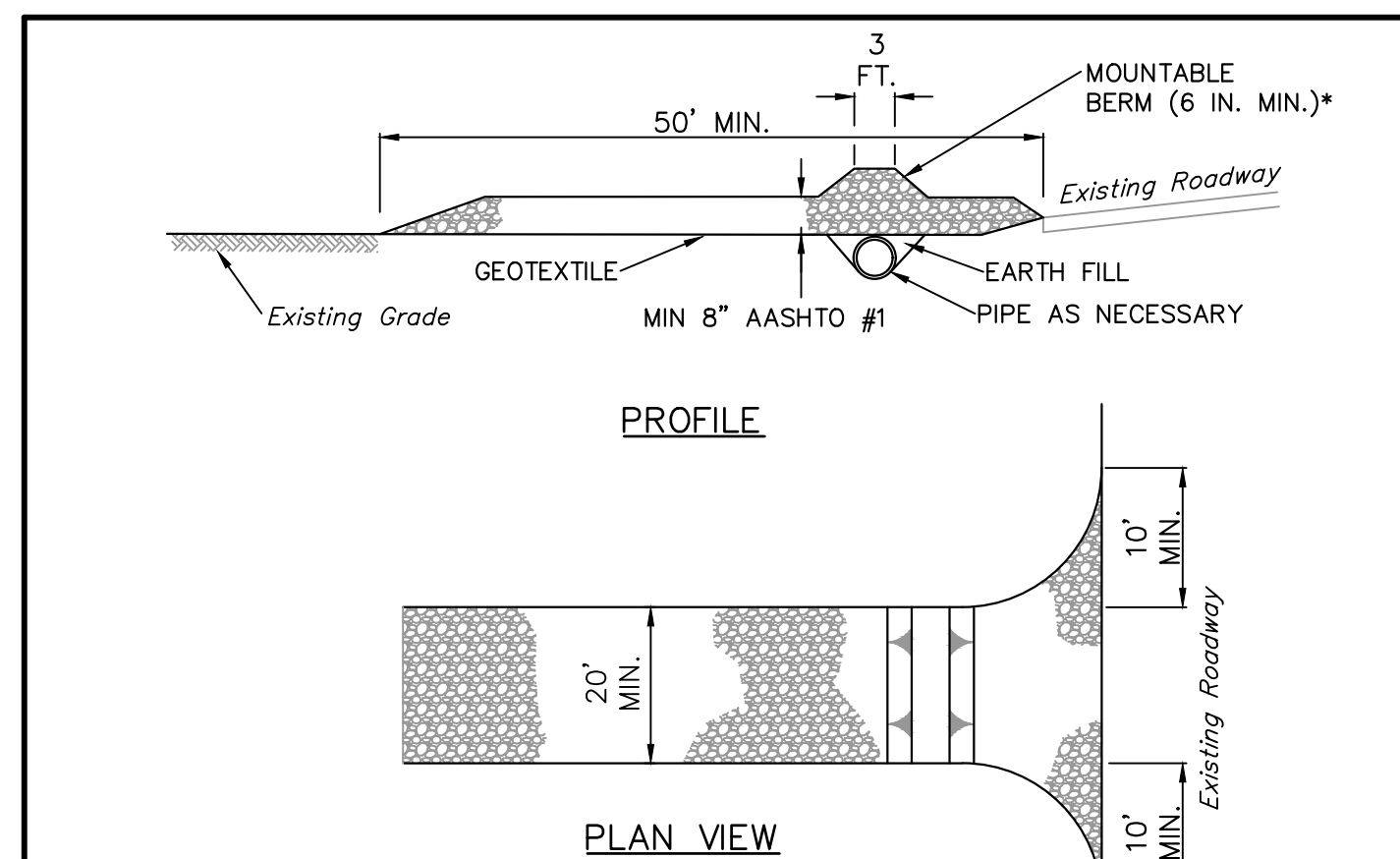
- REMOVE DEPOSITS WHEN SEDIMENT ACCUMULATION IS ONE HALF THE HEIGHT OF THE EXPOSED COMPOST FILTER SOCK.
- PLACE COMPOST FILTER SOCK ON LEVEL GRADE. EXTEND BOTH ENDS OF THE COMPOST FILTER SOCK AT LEAST 8'-0" UPSLOPE AT 45 DEGREES TO THE MAIN ALIGNMENT.
- REPLACE BIODEGRADABLE FILTER SOCK AFTER 6 MONTHS; PHOTODEGRADABLE AFTER 12 MONTHS.
- ALL DIMENSIONS ARE IN U.S. CUSTOMARY UNITS.
- CONTRACTOR SHALL PROVIDE SAND BAGS, CONCRETE BLOCKS, OR OTHER SUITABLE MATERIAL TO STABILIZE COMPOST FILTER SOCK ON PAVED AREAS AND PREVENT IT FROM MOVING OR SHIFTING.
- STABILIZING DEVICES SHALL BE SPACED 10 FEET ON CENTER OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS LESS.
- 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.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

### COMPOST FILTER SOCK



- NOTES:**
- MAXIMUM DRAINAGE AREA = 1/2 ACRE.
  - INLET PROTECTION IS NOT REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS REQUIRED FOR ALL INSTALLATIONS.
  - 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 TO REMAIN PERMANENTLY.
  - DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS

### FILTER BAG INLET PROTECTION



\* 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.
- 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.

### ROCK CONSTRUCTION ENTRANCE

**TOPSOIL APPLICATION**

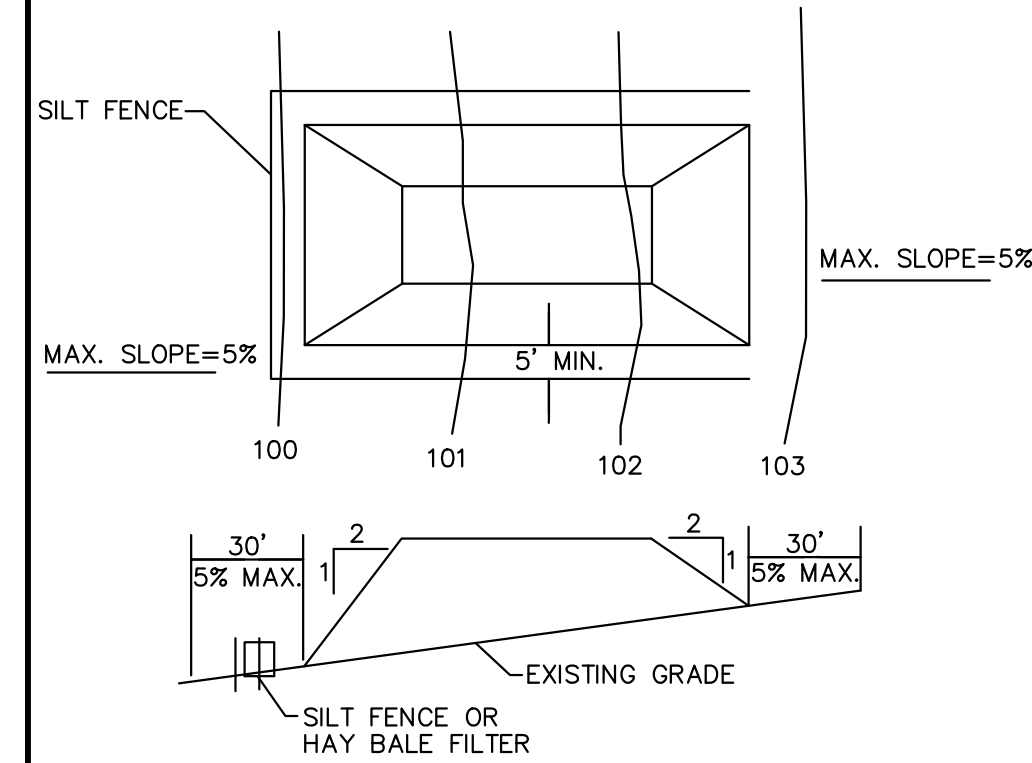
Graded areas should be scarified or otherwise loosened to a depth of 3 to 5 inches to permit bonding of the topsoil to the surface areas and to provide a roughened surface to prevent topsoil from sliding down slope.

Topsoil should be uniformly distributed across the disturbed area to a depth of 4 to 6 inches minimum -- 2 inches on fill out slopes. Spreading should be done in such a manner that sodding or seeding can proceed with a minimum of additional preparation or tillage. Irregularities in the surface resulting from topsoil placement should be corrected in order to prevent formation of depressions unless such depressions are part of the PCSM plan.

Topsoil should not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet, or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. Compacted soils should be scarified 6 to 12 inches along contour wherever possible prior to seeding.

Depth (in)	Per 1,000 Square Feet	Per Acre
2	3.1	134
3	6.2	268
4	9.3	403
5	12.4	537
6	15.5	672
7	18.6	806
8	21.7	940
8	24.8	1,074

Adapted from VA DSWC



- NOTES:**
- PLACE STOCKPILES AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
  - ALL SIDE SLOPES SHALL BE 2 TO 1 OR FLATTER.
  - STOCKPILE SHALL RECEIVE A VEGETATIVE COVER IN ACCORDANCE WITH MINIMUM STABILIZATION REQUIRED.
  - SILT FENCE SHALL BE INSTALLED AS DETAILED HEREON.
  - STOCKPILE NOT TO EXCEED 20 FEET IN HEIGHT.

### TEMPORARY STOCKPILE

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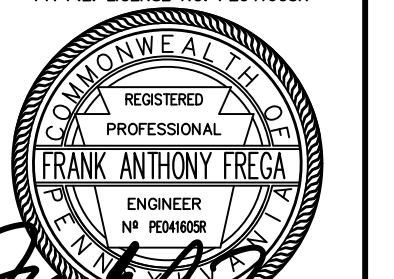
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## COBBS CREEK PLAYGROUND PHILADELPHIA, PA

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



DATE: 07/22/2022  
DRAWN: RDC  
CHECKED: RSB  
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CONTROL  
DETAILS  
DRAWING NO:

C-250  
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530 WALNUT STREET SUITE 460  
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PHONE: 215.925.0425 • FAX: 215.925.0430

PWD TRACKING NO.: FY22-COBB-6972-01









**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
	1	08.18.2022	PRE-BID REVISIONS

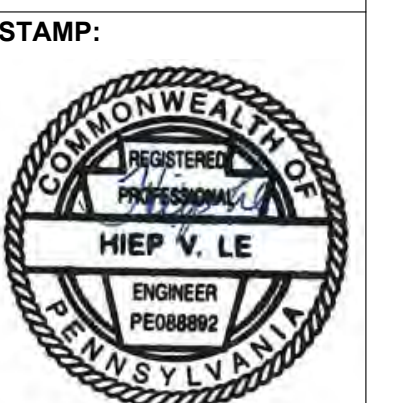
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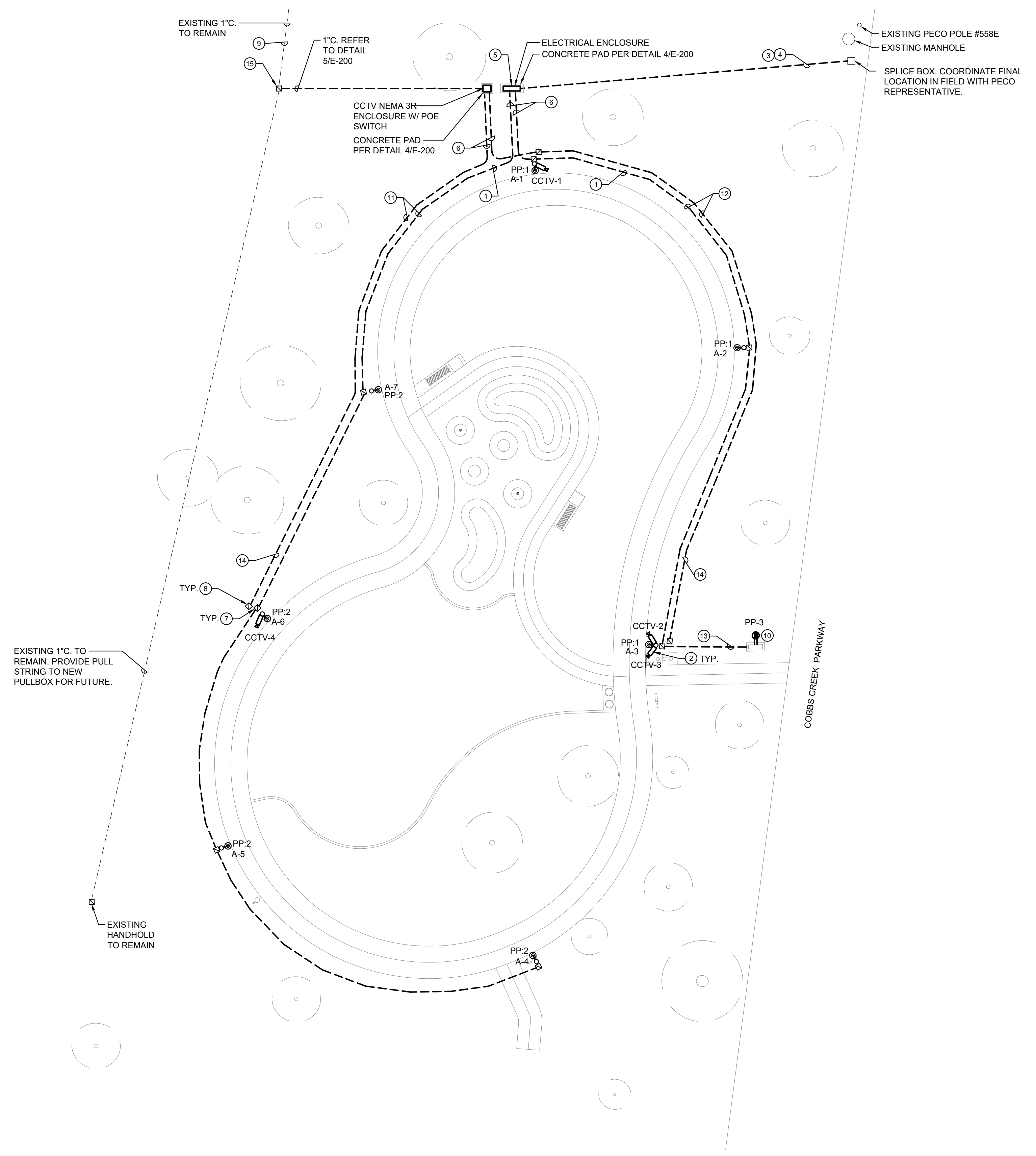
**COBBS CREEK  
PLAYGROUND  
PHILADELPHIA, PA**



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

DRAWING NO:  
**E-000**  
SHEET 19 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.
- REFER TO DRAWING E-200 FOR DETAILS AND E-300 FOR PANEL SCHEDULE.
- ALL CONDUCTORS SHALL BE COLOR-CODED, SINGLE CONDUCTOR, COPPER WIRE OF THE SPECIFIED SIZE, 600V, TYPE XHHW/XHHW-2 INSULATION, UNLESS NOTED OTHERWISE.
- ALL SERVICE RELATED WORK TO BE DONE IN STRICT ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
- ALL SERVICE EQUIPMENT SHALL BE LISTED FOR SERVICE ENTRANCE USE.
- COORDINATE ALL SERVICE CHANGES WITH PECO.
- EC SHALL COORDINATE WITH LIGHTING FIXTURE MANUFACTURER FOR CONNECTION REQUIREMENTS OF LIGHTING FIXTURES (IE. QUICK DISCONNECT) AND SHALL MAKE ALL WIRING CONNECTIONS AS REQUIRED.
- 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.
- INSTALL ALL WIRING IN SCHEDULE 80 PVC CONDUIT. ALL UNDERGROUND INSTALLATION SHALL COMPLY WITH NEC 300.5.
- 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:**

- FURNISH AND INSTALL 2#10 AND 1#10G IN 1" PVC CONDUIT.
- MOUNT SECURITY CAMERA TO POLE 12' AFG. COORDINATE EXACT PLACEMENT AND ORIENTATION WITH SECURITY SYSTEM REPRESENTATIVE PRIOR TO COMMENCING WORK.
- 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.
- CONTRACTOR TO COORDINATE FINAL SERVICE REQUIREMENTS WITH PECO. REFER TO DETAIL 1/E-200 FOR MORE INFORMATION.
- 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.
- REFER TO DETAIL 6/E-200 FOR TYPICAL DUCT BANK.
- 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.
- FURNISH AND INSTALL 16"L X 16"W X 12"D TIER 15 HANDHOLE AT THE LIGHT FIXTURE POLE. MAKE FINAL CONNECTION TO CAMERAS.
- EXTEND SPARE FIBER FROM EXISTING HANDHOLE ADJACENT TO EXISTING LIGHT POLE WITH CCTV CAMERAS (LOCATED ALONG THE ROAD TO THE ENVIRONMENTAL CENTER BUILDING) TO POE SWITCH LOCATED IN CCTV ENCLOSURE VIA NEW HANDHOLE. NEW HANDHOLE TO BE INSTALLED APPROXIMATELY 170' AWAY FROM EXISTING HANDHOLE LOCATED AT EXISTING LIGHT POLE. VERIFY EXISTING CONDITIONS IN FIELD.
- 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.
- REFER TO DETAIL 7/E-200 FOR TYPICAL ELEC/COMM DUCT BANK.
- REFER TO DETAIL 8/E-200 FOR TYPICAL ELEC/COMM DUCT BANK.
- REFER TO DETAIL 5/E-200 FOR TYPICAL ELEC/COMM DUCT BANK.
- FURNISH AND INSTALL CAT 6 CABLE IN 1" PVC CONDUIT FROM POE SWITCH LOCATED IN CCTV ENCLOSURE TO CAMERAS MOUNTED TO POLE LIGHTS.
- INTERCEPT EXISTING UNDERGROUND 1" PVC CONDUIT WITH NEW 16"L X 16"W X 12"D TIER 15 HANDHOLE. VERIFY IN FIELD EXACT LOCATION OF UNDERGROUND 1" PVC CONDUIT.

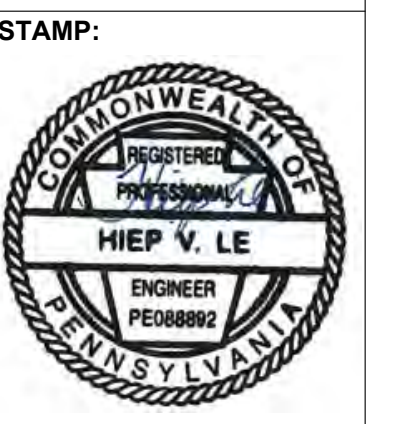
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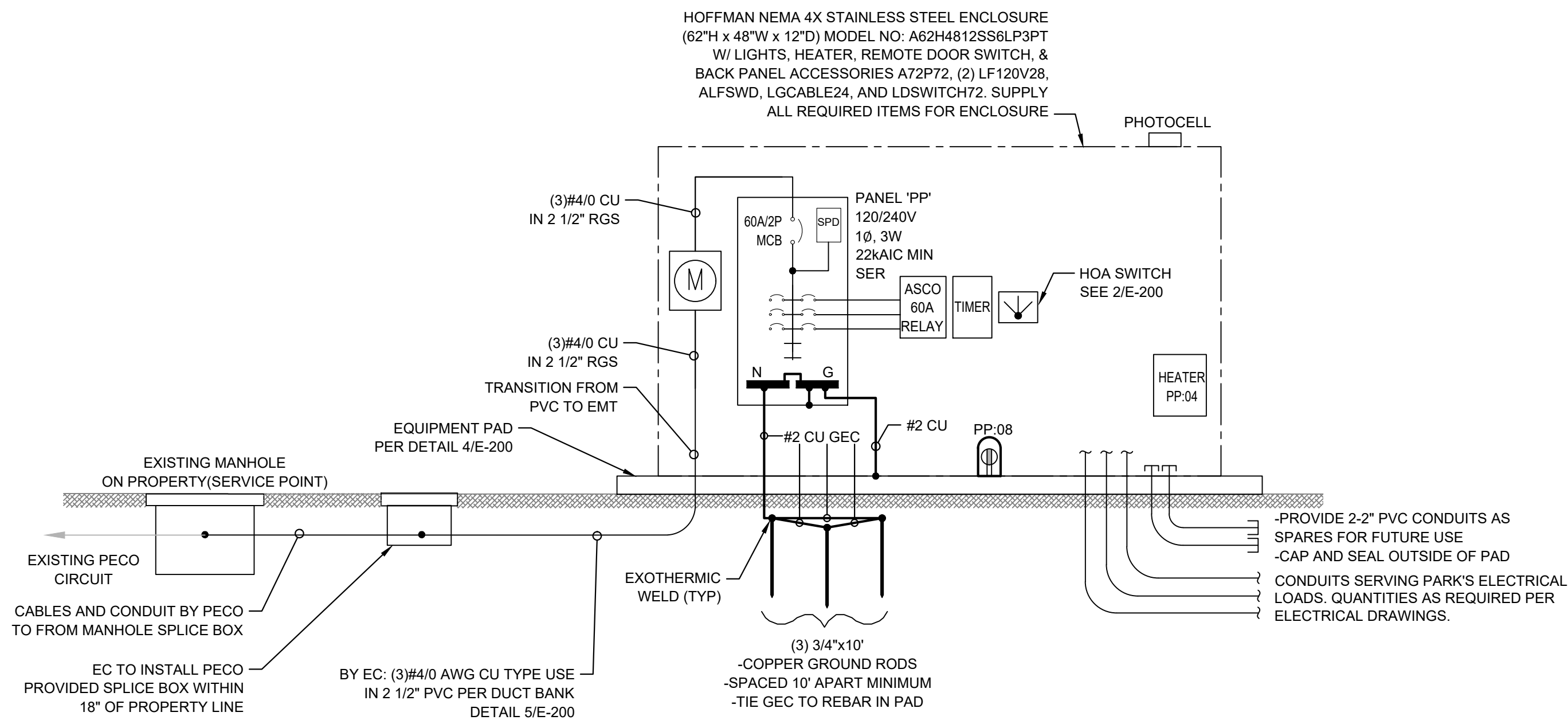


JOB NO: 2131  
 DATE: 07/22/2022  
 DRAWN: TM  
 CHECKED: HL  
 DRAWING TITLE:  
 ELECTRICAL SITE PLAN

DRAWING NO:  
**E-100**  
 SHEET 20 OF 22

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





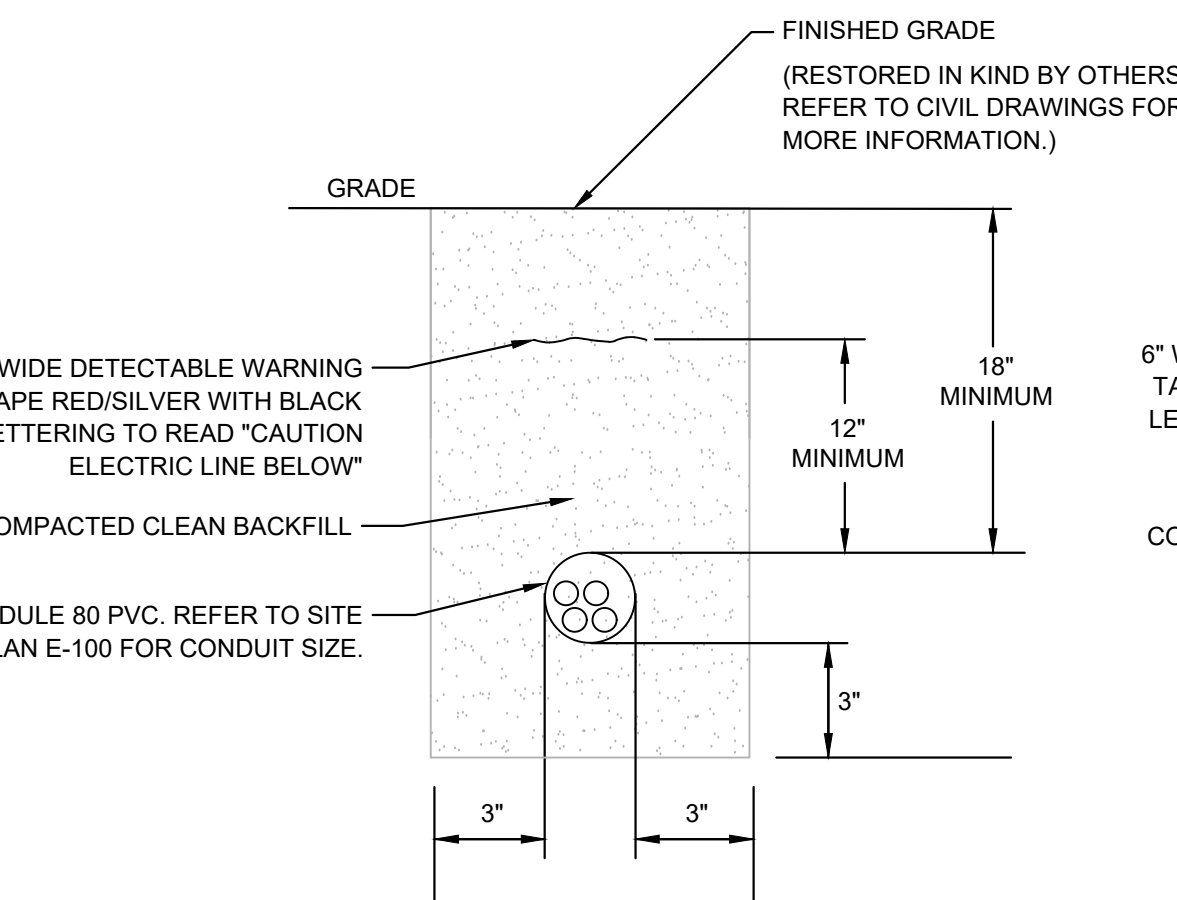
**1 FIELD BOX ENCLOSURE & SINGLE LINE DIAGRAM**

Scale: NTS

**NOTES:**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- SERVICE EQUIPMENT TO BE LOCATED AS CLOSE AS POSSIBLE TO SERVICE CONDUCTORS ENTERING THE BUILDING. GROUP EQUIPMENT TOGETHER AS REQUIRED.
- ALL SERVICE RELATED WORK TO BE DONE IN STRICT ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
- VERIFY SHORT CIRCUIT REQUIREMENTS WITH UTILITY COMPANY AND MAKE ADJUSTMENTS AS REQUIRED.
- ALL SERVICE EQUIPMENT SHALL BE LISTED FOR SERVICE ENTRANCE USE.
- COORDINATE ALL SERVICE CHANGES WITH PECO. EC SHALL BE RESPONSIBLE FOR SUBMITTING S&M AS REQUIRED.
- THE EC HAS THE FULL RESPONSIBILITY FOR MEETING WITH THE LOCAL ELECTRIC UTILITY AND COORDINATING WITH THE LOCAL ELECTRIC UTILITY COMPANY'S REQUIREMENTS BEFORE INSTALLATION BEGINS.

- THE EC IS RESPONSIBLE FOR THE PHYSICAL LAYOUT OF THE SERVICE EQUIPMENT AND ALL DISTRIBUTION EQUIPMENT MEETING WORKING CLEARANCES AND ALL OTHER REQUIREMENTS OF THE NEC BASED ON ACTUAL FIELD CONDITIONS. THE LOCATION OF THE SERVICE DISCONNECTING MEANS SHALL MEET THE REQUIREMENTS OF NEC ARTICLE 230, AND SHOULD BE REVIEWED WITH THE INSTALLER'S UNDERWRITER BEFORE INSTALLATION.
- SEE PANEL SCHEDULE FOR MORE INFORMATION.
- DUE TO VANDALISM CONCERNS, THE PECO METER IS SHOWN WITHIN THE FIELD BOX ENCLOSURE, WHICH MAY CONFLICT WITH PECO REQUIREMENTS. EC SHALL COORDINATE WITH PECO PRIOR TO INSTALLATION. IF PECO WILL NOT ALLOW THE METER TO BE INSTALLED WITHIN THE ENCLOSURE, EC SHALL INSTALL OUTSIDE PER PECO BLUE BOOK AND ADD PROTECTION FOR THE METER TO HELP WITH VANDALISM PROBLEMS.
- 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.

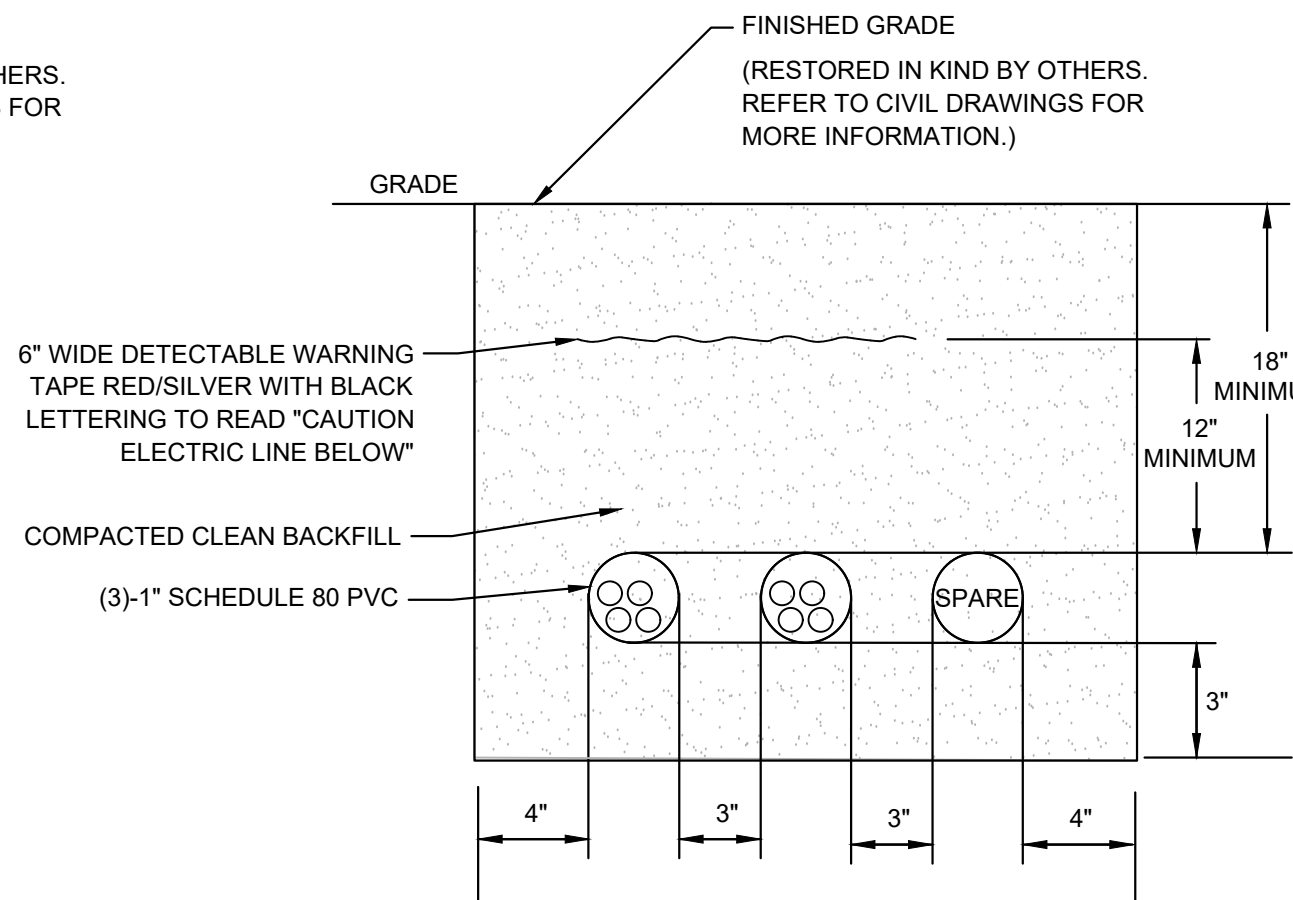


**5 TYPICAL DUCT BANK DETAIL**

Scale: NTS

**DUCT BANK NOTES:**

- EC SHALL TAKE EXTREME CARE IN EXCAVATING AREA. HAND-DIG IF NECESSARY. MODIFY/RE-ROUTE DUCT BANK AS REQUIRED TO MINIMIZE CONFLICT WITH EXISTING UTILITIES.
- COORDINATE ALL CONDUIT ROUTING WITH EXISTING CONDITIONS AND ROADWAY CUTTING AND TRENCHING.
- ADJUST TRENCH DETAIL FOR MULTIPLE CONDUITS WHEN REQUIRED. OBTAIN ENGINEER'S APPROVAL.
- COORDINATE WITH PECO BLUE BOOK REQUIREMENTS.
- REMOVE ALL SHARP STONES AND OBJECTS FROM COMPACTED BEDDING, SIDE SUPPORTS, AND FILL.

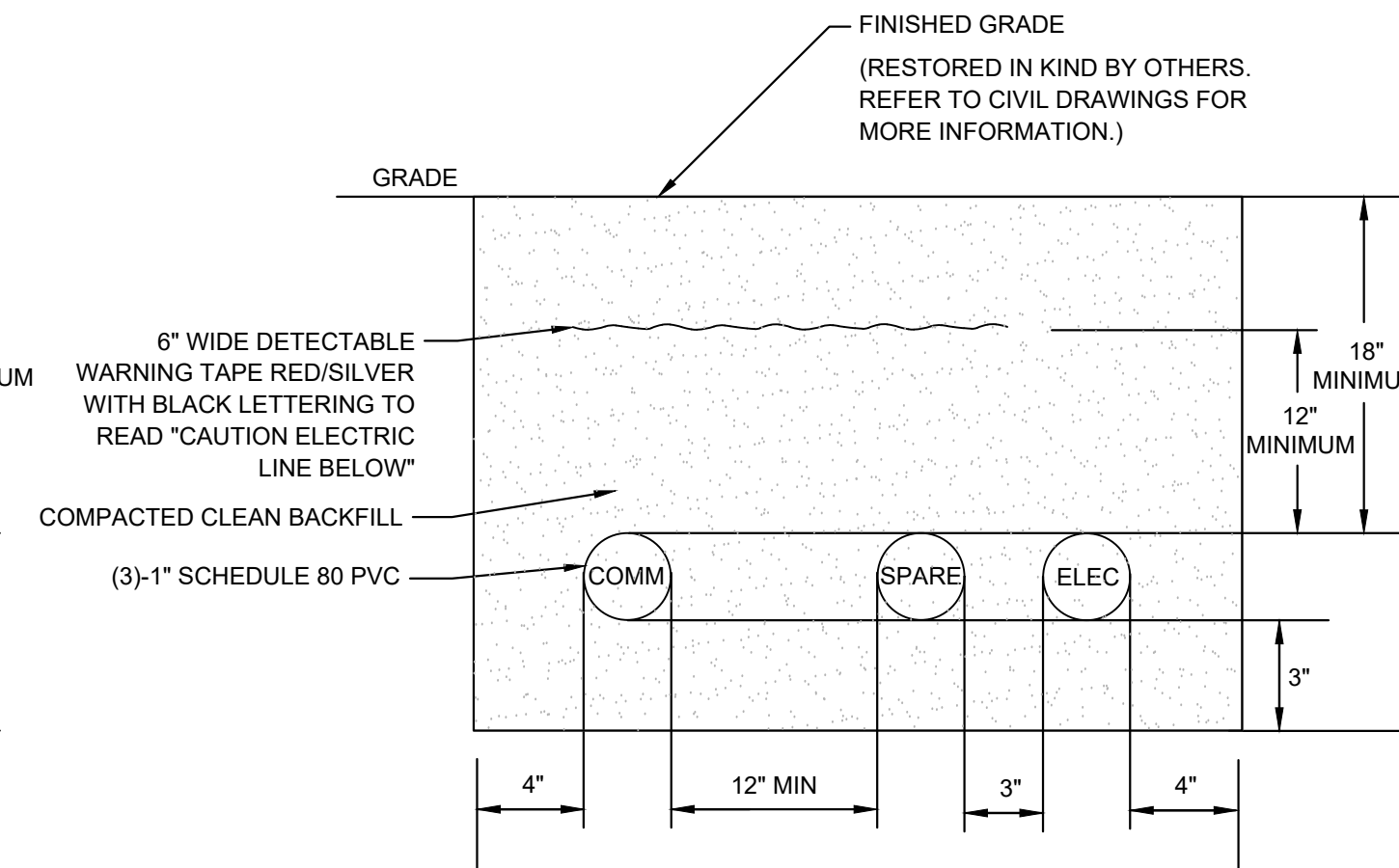


**6 TYPICAL 3-WAY DUCT BANK DETAIL**

Scale: NTS

**DUCT BANK NOTES:**

- EC SHALL TAKE EXTREME CARE IN EXCAVATING AREA. HAND-DIG IF NECESSARY. MODIFY/RE-ROUTE DUCT BANK AS REQUIRED TO MINIMIZE CONFLICT WITH EXISTING UTILITIES.
- COORDINATE ALL CONDUIT ROUTING WITH EXISTING CONDITIONS AND ROADWAY CUTTING AND TRENCHING.
- ADJUST TRENCH DETAIL FOR MULTIPLE CONDUITS WHEN REQUIRED. OBTAIN ENGINEER'S APPROVAL.
- COORDINATE WITH PECO BLUE BOOK REQUIREMENTS.
- REMOVE ALL SHARP STONES AND OBJECTS FROM COMPACTED BEDDING, SIDE SUPPORTS, AND FILL.

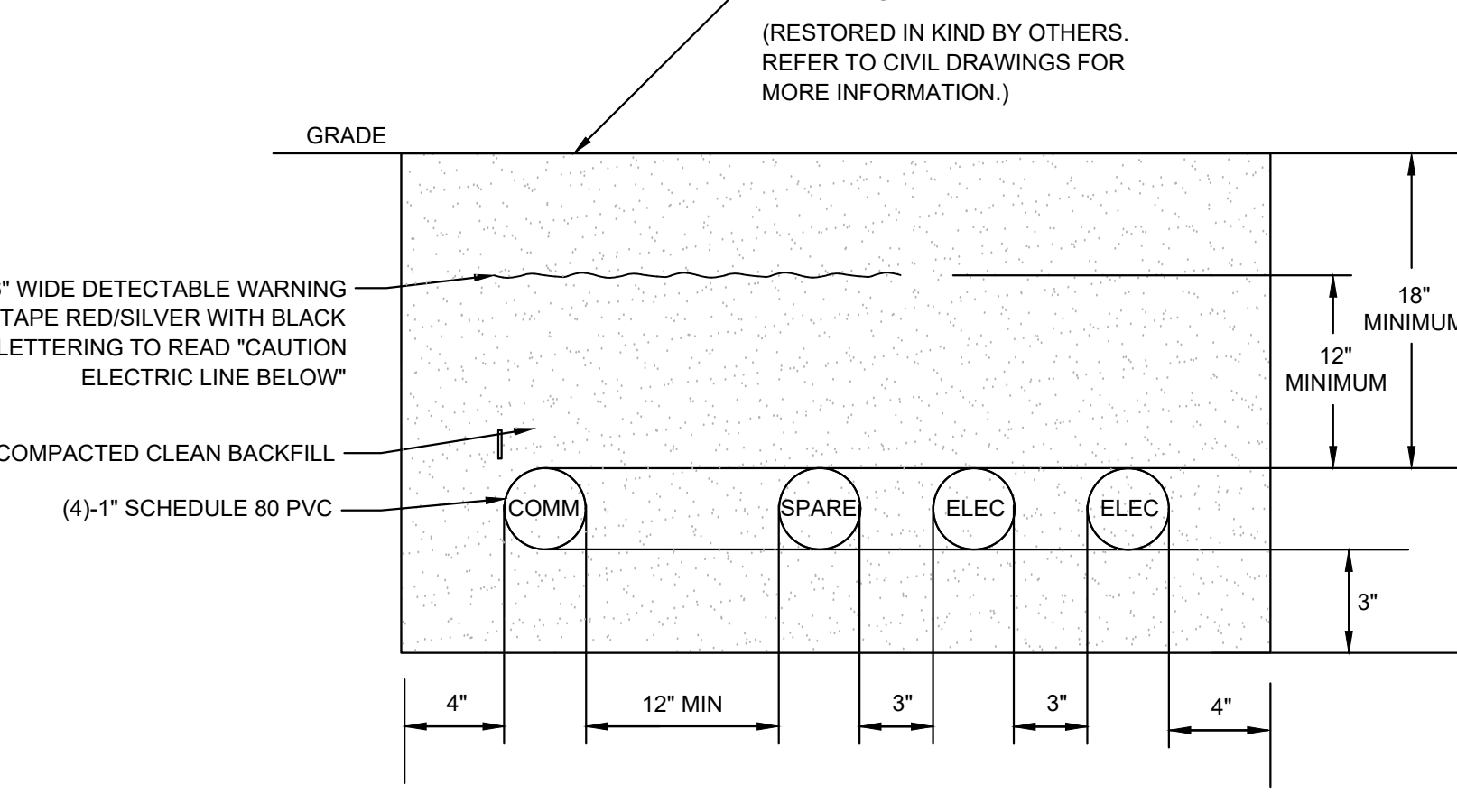


**7 TYPICAL 3-WAY ELEC/COMM DUCT BANK DETAIL**

Scale: NTS

**DUCT BANK NOTES:**

- EC SHALL TAKE EXTREME CARE IN EXCAVATING AREA. HAND-DIG IF NECESSARY. MODIFY/RE-ROUTE DUCT BANK AS REQUIRED TO MINIMIZE CONFLICT WITH EXISTING UTILITIES.
- COORDINATE ALL CONDUIT ROUTING WITH EXISTING CONDITIONS AND ROADWAY CUTTING AND TRENCHING.
- ADJUST TRENCH DETAIL FOR MULTIPLE CONDUITS WHEN REQUIRED. OBTAIN ENGINEER'S APPROVAL.
- COORDINATE WITH PECO BLUE BOOK REQUIREMENTS.
- REMOVE ALL SHARP STONES AND OBJECTS FROM COMPACTED BEDDING, SIDE SUPPORTS, AND FILL.

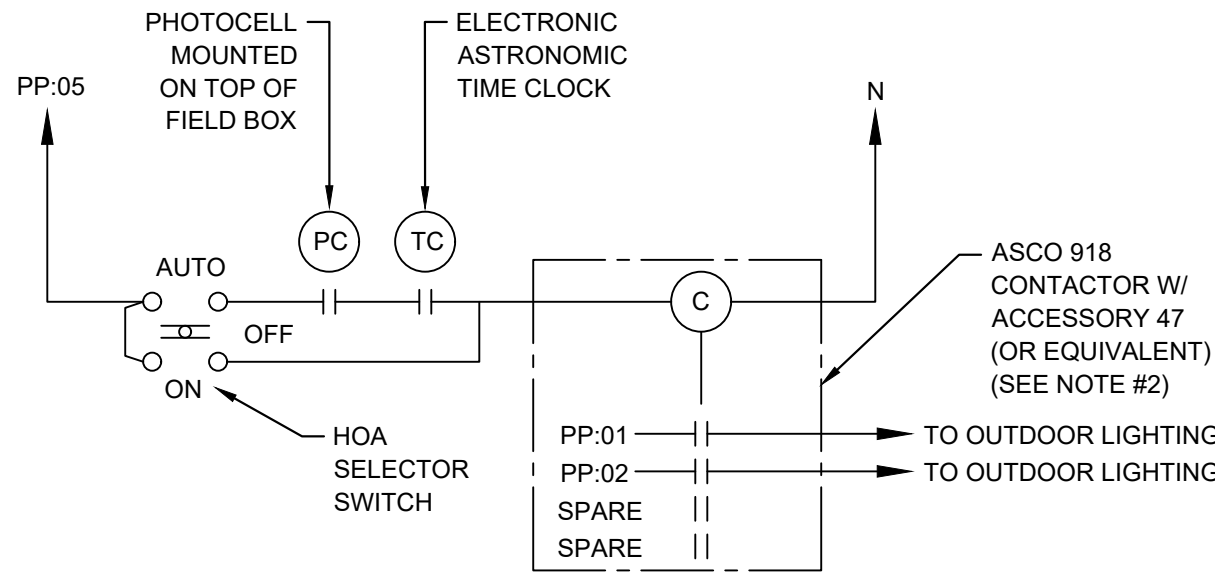


**8 TYPICAL 4-WAY ELEC/COMM DUCT BANK DETAIL**

Scale: NTS

**DUCT BANK NOTES:**

- EC SHALL TAKE EXTREME CARE IN EXCAVATING AREA. HAND-DIG IF NECESSARY. MODIFY/RE-ROUTE DUCT BANK AS REQUIRED TO MINIMIZE CONFLICT WITH EXISTING UTILITIES.
- COORDINATE ALL CONDUIT ROUTING WITH EXISTING CONDITIONS AND ROADWAY CUTTING AND TRENCHING.
- ADJUST TRENCH DETAIL FOR MULTIPLE CONDUITS WHEN REQUIRED. OBTAIN ENGINEER'S APPROVAL.
- COORDINATE WITH PECO BLUE BOOK REQUIREMENTS.
- REMOVE ALL SHARP STONES AND OBJECTS FROM COMPACTED BEDDING, SIDE SUPPORTS, AND FILL.

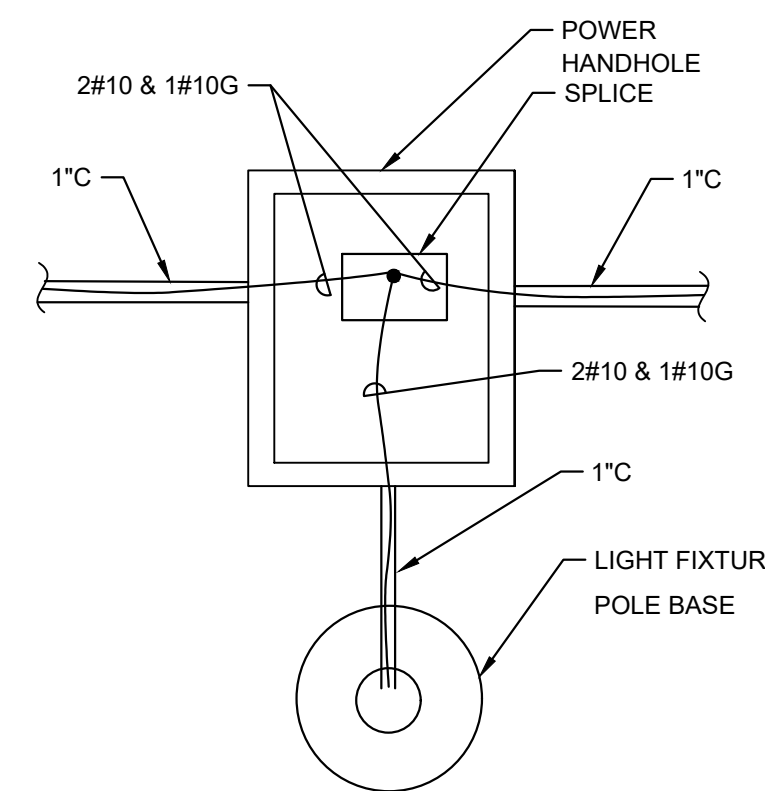


**2 DETAIL - LIGHTING CONTROL**

Scale: NTS

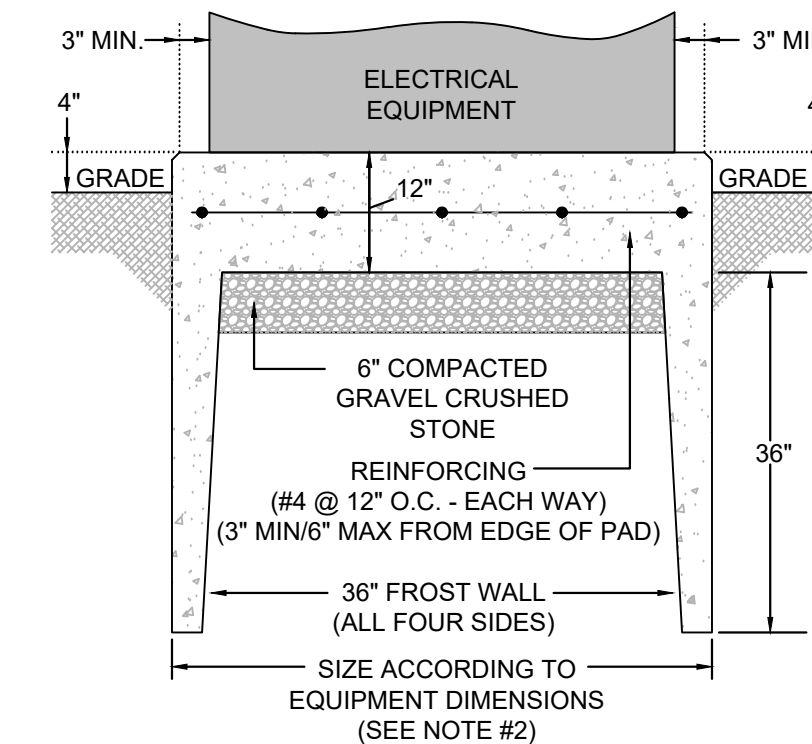
**NOTES:**

- EC TO COORDINATE WITH OWNER FOR EXACT PROGRAMMING AND OPERATIONAL REQUIREMENTS.



**3 HANDHOLE DETAIL**

Scale: NTS



**4 DETAIL - FIELD SERVICE PAD**

Scale: NTS

**NOTES:**

- CONCRETE TO HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI & HAVE AN AIR ENTRAINING ADMIXTURE. AIR CONTENT TO BE 6% + OR - 1%.
- PAD SHALL BE SIZED SO THAT PAD EXTENDS AT LEAST 3" BEYOND SPECIFIED EQUIPMENT IN ALL DIRECTIONS.
- EC SHALL VERIFY THAT PAD DESIGN IS STRUCTURALLY SUFFICIENT FOR INSTALLED EQUIPMENT.

**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.

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**STAMP:**



JOB NO: 2131  
DATE: 07/22/2022  
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CHECKED: HL  
DRAWING TITLE:

DETAILS

DRAWING NO:  
**E-200**

SHEET 21 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 (SEE NOTE 1)	#12	1	20	180		360	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 GFCI DUPLEX RECEPTACLE IN WEATHERPROOF BOX INSIDE CCTV ENCLOSURE FOR POWER TO POE SWITCH.						TOTALS							
						431	3285						
						3716 VA		15.48 AMPS					

LUMINAIRE SCHEDULE										
SYMBOL	TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NO.	LAMP INFORMATION				REMARKS
						TYPE	WATTS	VOLTS	LUMENS	
⊙	A	LED LIGHT POLE. CONTROL VIA PHOTOCCELL 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.										

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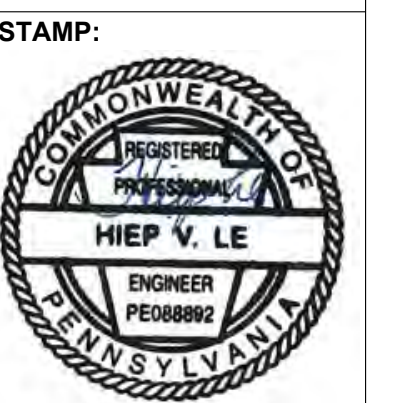
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SCHEDULES

DRAWING NO:  
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