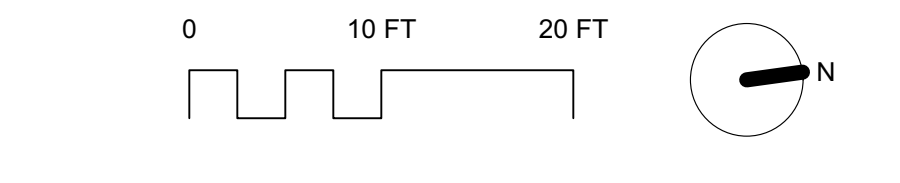


**LEGEND**

- 35.00 --- MAJOR CONTOUR
- 34.00 --- MINOR CONTOUR
- W WATER LINE
- G GAS LINE
- SW SEWER LINE
- SANITARY SEWER LINE
- VERIZON LINE
- PECO LINE
- SEPTA LINE
- EXISTING SEWER STRUCTURE
- 2' X 3' STORM GRATE
- UTILITY MANHOLE
- ⊕ STREET LIGHT
- LP LIGHT POLE
- V SEWER VENT
- EXISTING TREE

**GENERAL NOTES:**

1. SURVEY PROVIDED BY PWD.



REVISIONS		
ISSUE	DATE	DESCRIPTION

PHILADELPHIA MANETO

**PROJECT COORDINATOR**  
Philadelphia Parks & Recreation  
1515 Arch Street, 10th Floor  
Philadelphia, PA 19102

**SEAL**

**PROJECT TEAM**  
Landscape Architect:  
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**CITY OF PHILADELPHIA**  
**PHILADELPHIA PARKS & RECREATION**  
1515 ARCH STREET  
11TH FLOOR, ONE PARKWAY BUILDING  
PHILADELPHIA, PENNSYLVANIA

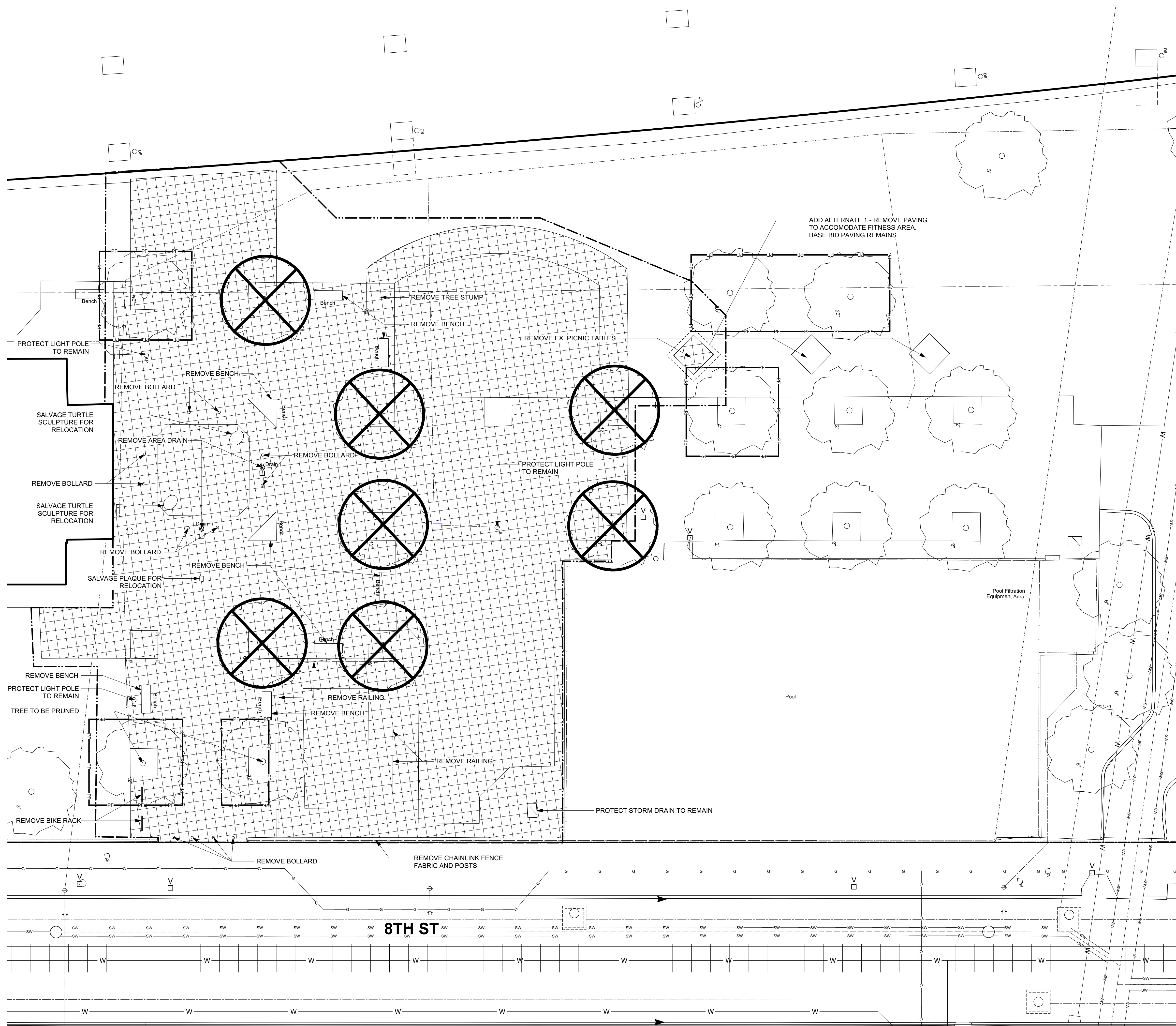
**PROJECT TITLE**  
**East Poplar Playground**

**DRAWING TITLE**  
**EXISTING CONDITIONS PLAN**



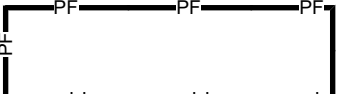

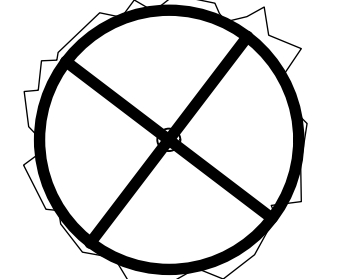
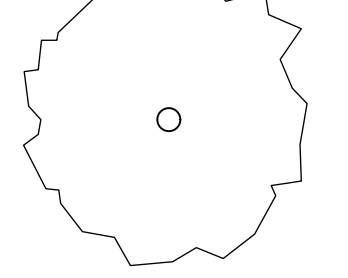
PROJECT NO.	DRAWING NO.
DATE: 02.07.2020	<b>L-0.0</b>
SCALE: 1" = 10'	
DRAWN BY: WM/JBJ/DD	
CHECKED BY: JB	

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





**LEGEND**

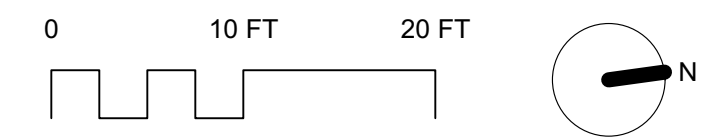
-  LIMIT OF DISTURBANCE
-  LIMIT OF WORK, NO DISTURBANCE
-  TREE PROTECTION FENCE, REFER TO DETAIL 1/L-2.4
-  REMOVE PAVING, SAFETY SURFACE, & PLAY EQUIPMENT
-  EXISTING TREE TO BE REMOVED
-  EXISTING TREE TO REMAIN

**GENERAL NOTES:**

1. PRIOR TO START OF WORK CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SITE ELEMENTS. NOTIFY THE OWNER AND LANDSCAPE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO COMMENCING WITH WORK.
2. PROPOSED IMPROVEMENT BASED ON DRAWING PROVIDED BY OWNER.
3. DRAWINGS FOR DESIGN INTENT ONLY. FIELD ADJUSTMENTS MAY BE REQUIRED WITH WRITTEN AUTHORIZATION BY LANDSCAPE ARCHITECT.
4. PROVIDE AND MAINTAIN PROTECTION FOR PEDESTRIAN AND VEHICULAR TRAFFIC.
5. PRESERVE AND PROTECT ALL EXISTING FEATURES TO REMAIN: STRUCTURES, LIGHTING, SURFACE MATERIALS, ABOVE AND BELOW GRADE UTILITIES, FOOTING AND VEGETATION WITHIN AND ADJACENT TO CONSTRUCTION AREA DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.
6. DOCUMENT THE CONDITION OF ALL EXISTING FEATURES TO REMAIN PRIOR TO THE START OF DEMOLITION OR CONSTRUCTION. REPAIR OR REPLACE ANY FEATURES DAMAGED OR DESTROYED TO THE SATISFACTION OF THE OWNER.
7. DO NOT DRIVE OR PARK, STORE MATERIAL OR DEBRIS ON THE SITE EXCEPT IN AREAS APPROVED BY OWNER. STAGING AREAS SHALL BE APPROVED BY OWNER. DO NOT STAGE MATERIALS IN AREAS OTHER THAN THOSE THAT ARE PREVIOUSLY DESIGNATED BY THE OWNER. STAGING AREAS MUST BE COORDINATED WITH THE TREE PROTECTION PLAN AND SPECIFICATIONS.
8. ALL EXCAVATIONS, TRENCHING AND SHORING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH (OSHA) PUBLICATIONS, CURRENT EDITION.
9. DISPOSE OF OR RECYCLE ALL DEMOLITION MATERIALS IN A PERMITTED, REGULATED FACILITY IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
10. MEET ALL EXISTING GRADES AT ALL EDGES OF PROJECT.
11. BACKFILL AND COMPACT ANY SUBSURFACE VOIDS ENCOUNTERED WITH SATISFACTORY SOIL MATERIAL TO SUBGRADE ELEVATION.
12. MAINTAIN FIRE DEPARTMENT ACCESS TO ALL FIRE DEPARTMENT CONNECTIONS AND HYDRANTS AT ALL TIMES.
13. REMOVE ROOTS OF TREES AND SHRUBS TO BE REMOVED TO 24" BELOW GRADE MINIMALLY OR AS NEEDED TO ACCOMMODATE WORK.
14. SEE CIVIL ENGINEER DRAWINGS FOR ADDITIONAL INFORMATION.

**TREE PROTECTION NOTES**

1. ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TREE PROTECTION FENCING. LOCATION OF TREE PROTECTION FENCE IS INDICATED ON DRAWINGS. REFER TO DETAIL 1/L-2.4 FOR TREE PROTECTION DETAIL.
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. EXERCISE EXTREME CAUTION WHEN REMOVING TREES, ADJACENT TO EXISTING TREES TO REMAIN. USE HAND METHODS IN CANOPIES AND ROOT ZONES OF EXISTING TREES.
4. 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. ARBORIST SHALL BE PRESENT DURING ALL WORK DONE WITHIN DRIPLINE OF EXISTING TREES. NOTIFY OWNER PRIOR TO COMMENCEMENT OF WORK WITHIN DRIPLINE OF TREES.
5. 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.
6. CONTRACTOR SHALL NOT PARK OR STORE EQUIPMENT AND SUPPLIES WITHIN THE TREE PROTECTION FENCING.



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PHILADELPHIA PARKS & RECREATION**  
1515 ARCH STREET  
11TH FLOOR, ONE PARKWAY BUILDING  
PHILADELPHIA, PENNSYLVANIA

**PROJECT TITLE**  
East Poplar Playground

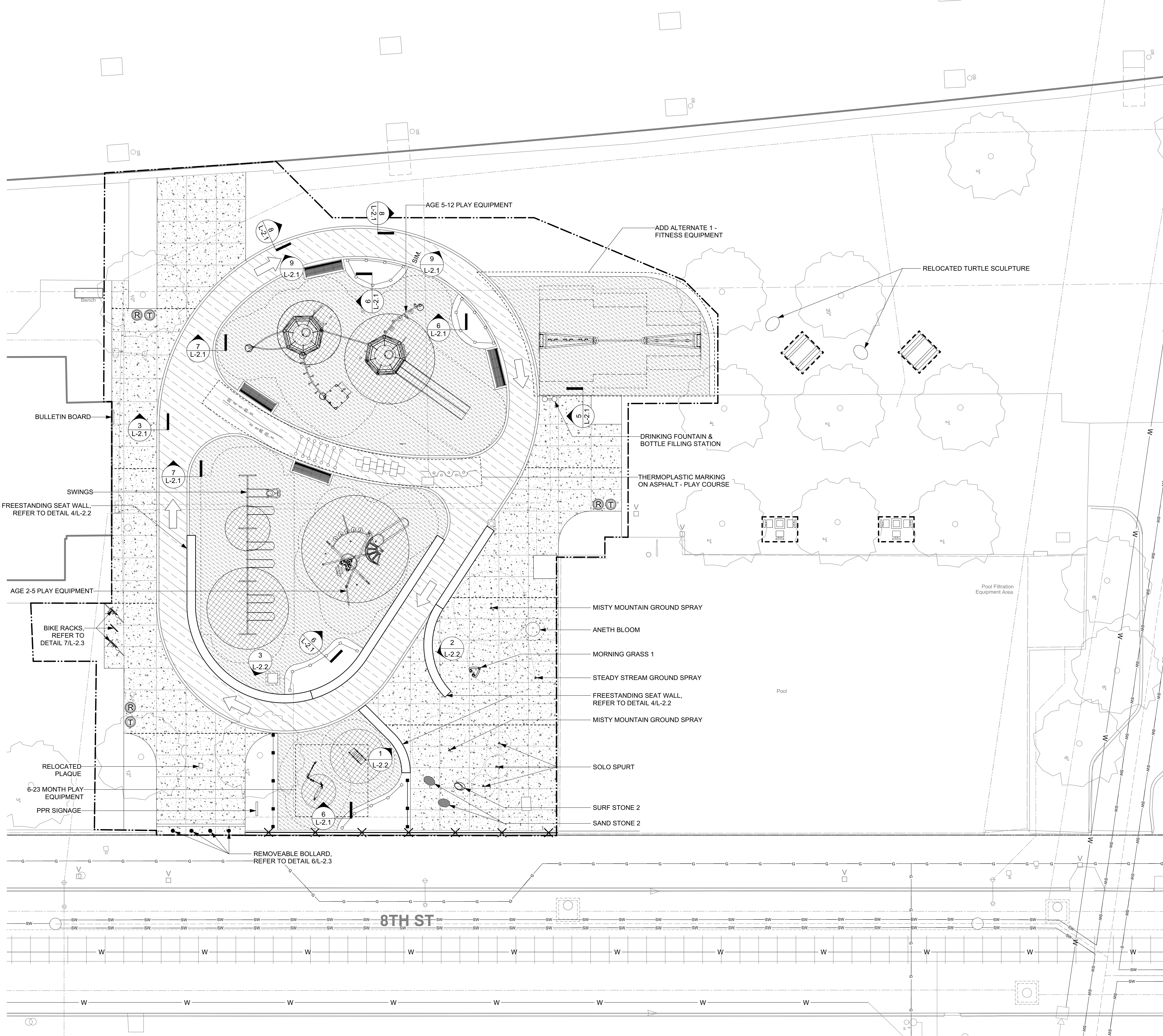
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**DRAWING TITLE**  
TREE PROTECTION  
& DEMOLITION PLAN

<b>PROJECT NO.</b>	<b>DRAWING NO.</b>
DATE: 02.07.2020	L-1.0
SCALE: 1" = 10'	
DRAWN BY: WM/JBJ/JJD	
CHECKED BY: JB	

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





**LEGEND**

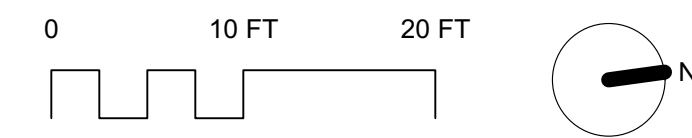
- LIMIT OF DISTURBANCE
- LIMIT OF WORK, NO DISTURBANCE
- - - SAFETY ZONE
- CONCRETE CONTROL JOINT
- - - CONCRETE EXPANSION JOINT
- [Pattern] BONDED RUBBER SAFETY SURFACE COLOR 1  
REFER TO DETAIL 4/L-2.1
- [Pattern] BONDED RUBBER SAFETY SURFACE COLOR 2  
REFER TO DETAIL 4/L-2.1
- [Pattern] CONCRETE PAVING  
REFER TO DETAIL 1/L-2.1
- [Pattern] ASPHALT PAVING  
REFER TO DETAIL 2/L-2.1
- [Symbol] FENCE TYPE 1  
REFER TO DETAIL 1/L-2.3
- [Symbol] FENCE TYPE 2  
REFER TO DETAIL 2/L-2.3
- [Symbol] FENCE TYPE 3  
REFER TO DETAIL 5/L-2.3
- [Symbol] BENCH, REFER TO DETAIL 3/L-2.3
- [Symbol] ADA COMPLIANT GAME TABLE, 3 SEAT
- [Symbol] DRINKING FOUNTAIN & BOTTLE FILLING STATION
- [Symbol] NEW PICNIC TABLE
- [Symbol] REMOVABLE BOLLARD  
REFER TO 6/L-2.3
- [Symbol] BIKE RACK  
REFER TO 7/L-2.3
- [Symbol] THERMOPLASTIC MARKING ON ASPHALT
- [Symbol] TRASH RECEPTACLE  
REFER TO DETAIL 4/L-2.3
- [Symbol] RECYCLE RECEPTACLE  
REFER TO DETAIL 4/L-2.3

**ADD ALTERNATE**

- FURNISH AND INSTALL SAFETY SURFACE AND FITNESS EQUIPMENT. BASE BID INCLUDES ONE NEW PICNIC TABLE, SOIL AND SEED INSTALLATION.

**GENERAL NOTES:**

- VERIFY ALL EXISTING CONDITIONS IN THE FIELD.
- VERIFY THE EXACT LOCATION AND ELEVATIONS OF ALL UNDERGROUND UTILITIES AND OTHER STRUCTURES BEFORE STARTING WORK.
- PRESERVE AND PROTECT ALL EXISTING TO REMAIN: STRUCTURES, FURNISHING, SURFACE MATERIALS, ABOVE AND BELOW GRADE UTILITIES, FOOTING AND VEGETATION WITHIN AND ADJACENT TO CONSTRUCTION AREA DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.
- CONCRETE JOINTS SHALL BE LOCATED AS SHOWN ON DRAWING. CONTROL JOINTS SHALL NOT EXCEED 6'-0", EXPANSION JOINTS SHALL NOT EXCEED 30'-0". BRING ANY DISCREPANCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.



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**PROJECT TITLE**  
East Poplar Playground

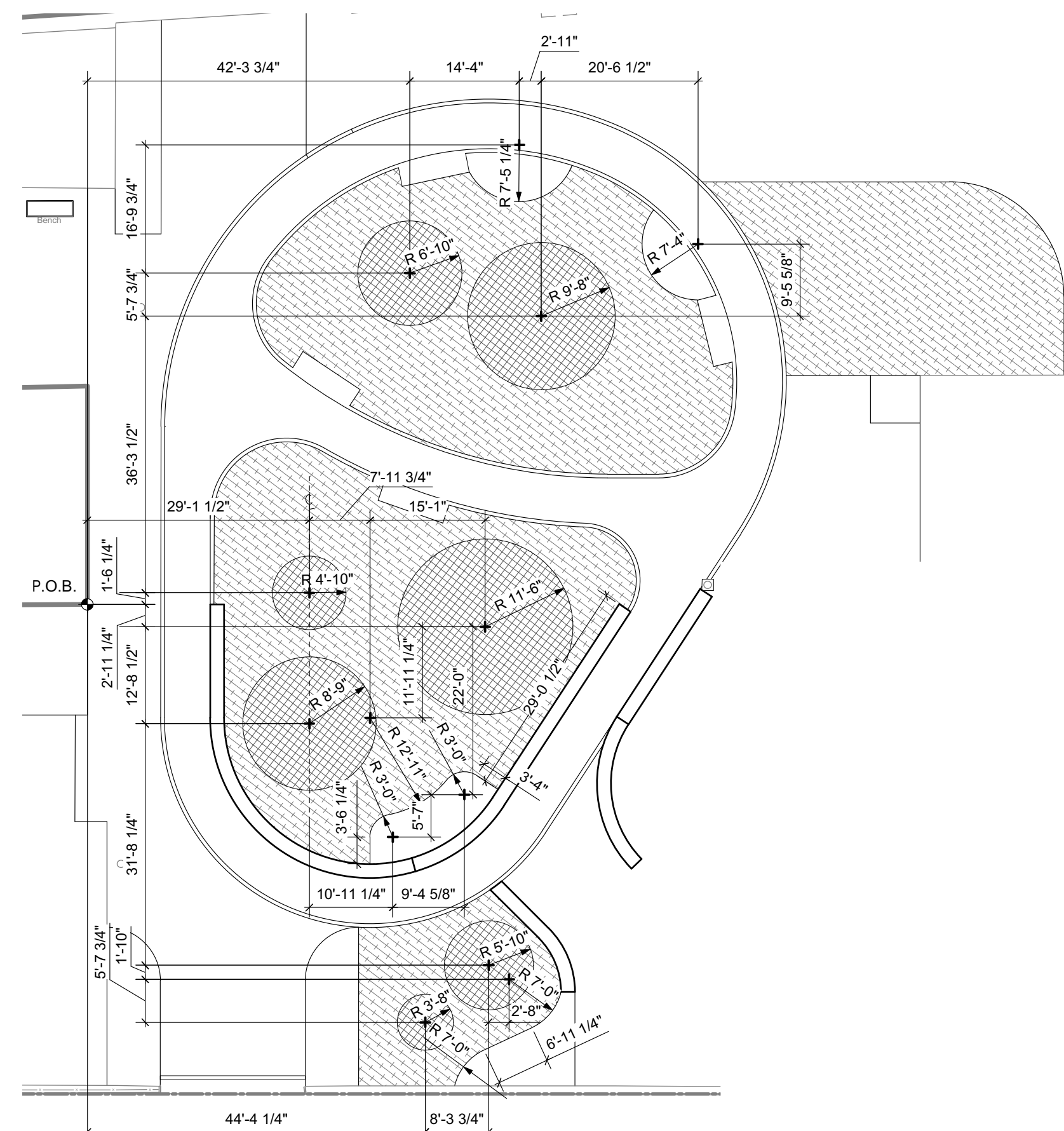
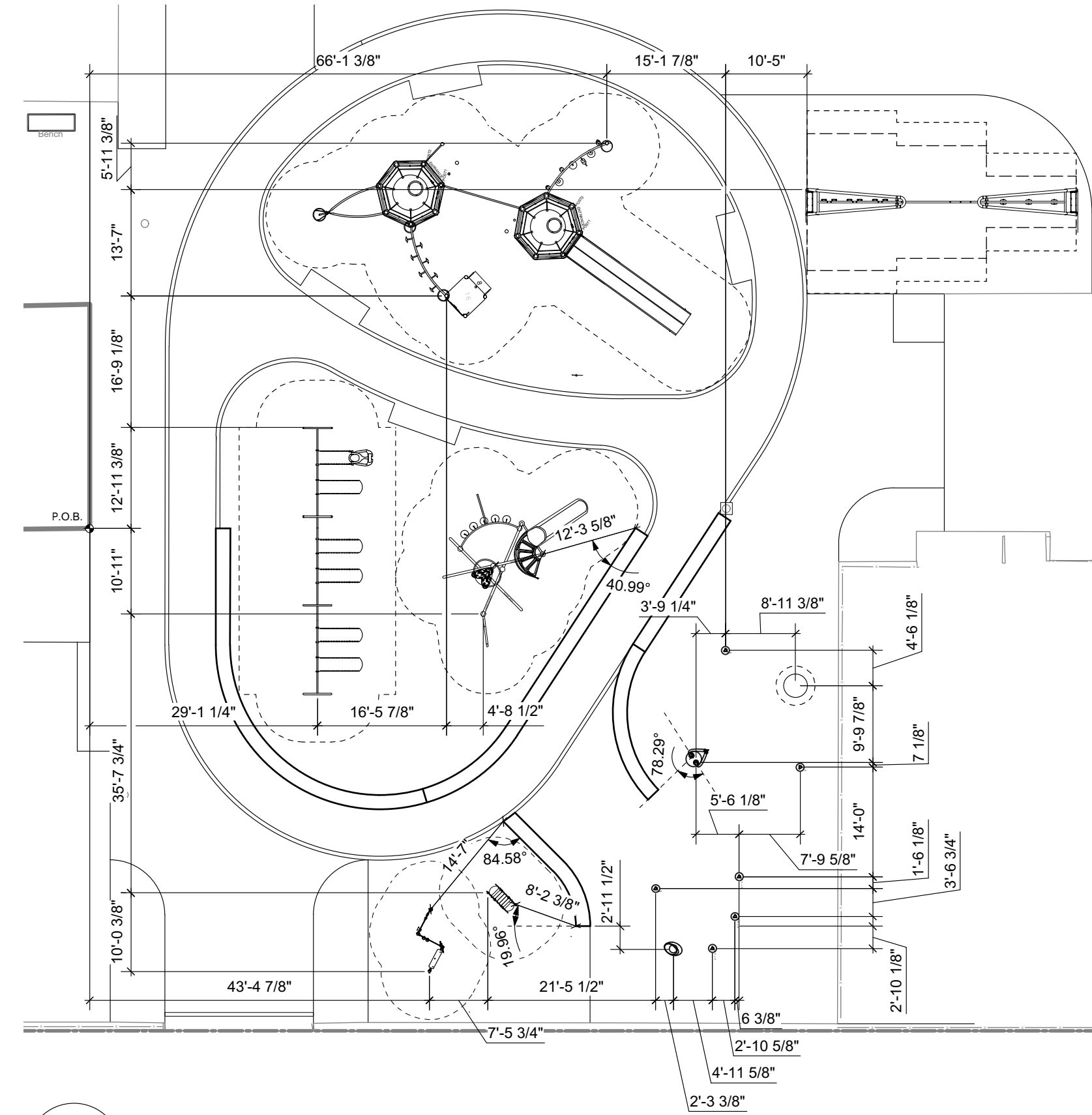
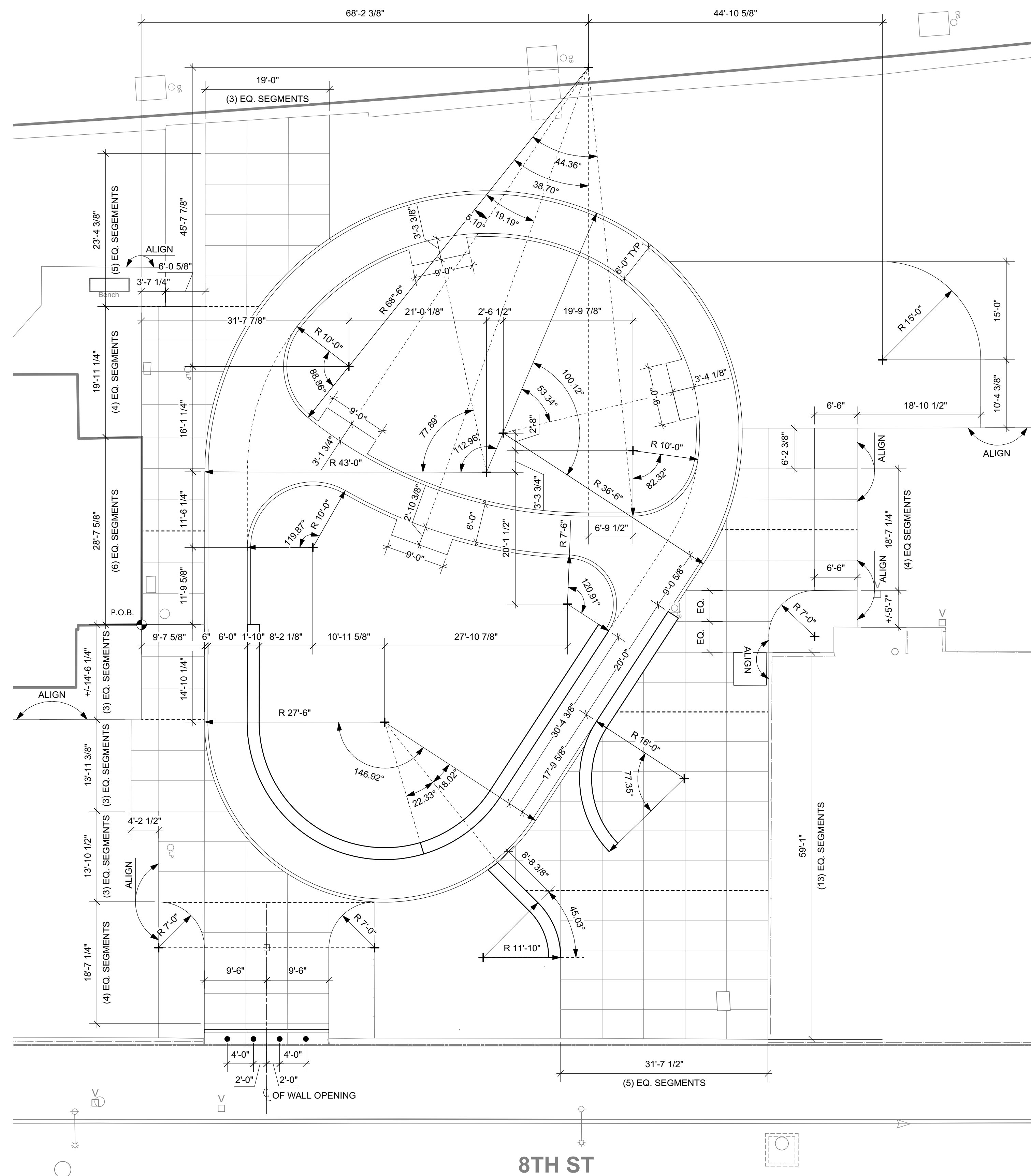
**DRAWING TITLE**  
MATERIALS PLAN

PROJECT NO.	DRAWING NO.
	L-1.1

DATE: 02.07.2020  
SCALE: 1" = 10'  
DRAWN BY: WM/JBJ/JJD  
CHECKED BY: JB

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



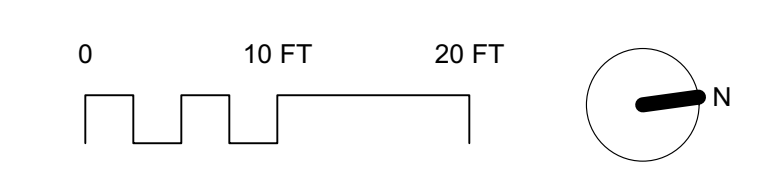
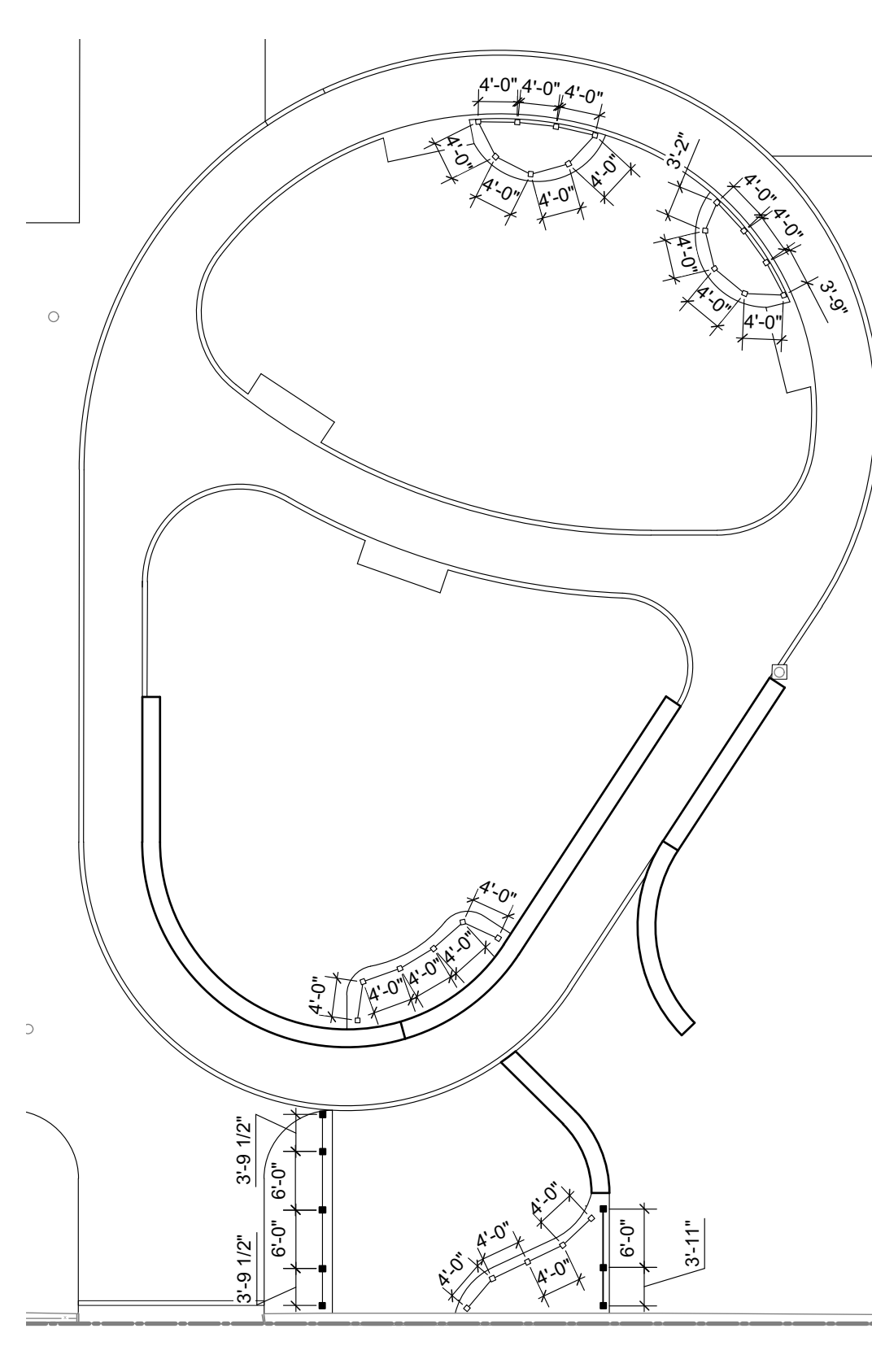


**LEGEND**

- LIMIT OF DISTURBANCE
- P.O.B. POINT OF BEGINNING
- 12'-4 1/4" LINEAR DIMENSION
- ANGLE
- 210.36°
- 9'-3 1/2" ARCH LENGTH
- R 13'-1 3/4" RADIUS

**NOTE:**

- LAYOUT OF PLAY EQUIPMENT IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY EQUIPMENT LOCATION THAT MEETS SAFETY SURFACE FALL ZONE REQUIREMENTS.
- SPECIFICATION 323116 STATES FIELD VERIFIED SHOP DRAWING ARE REQUIRED.



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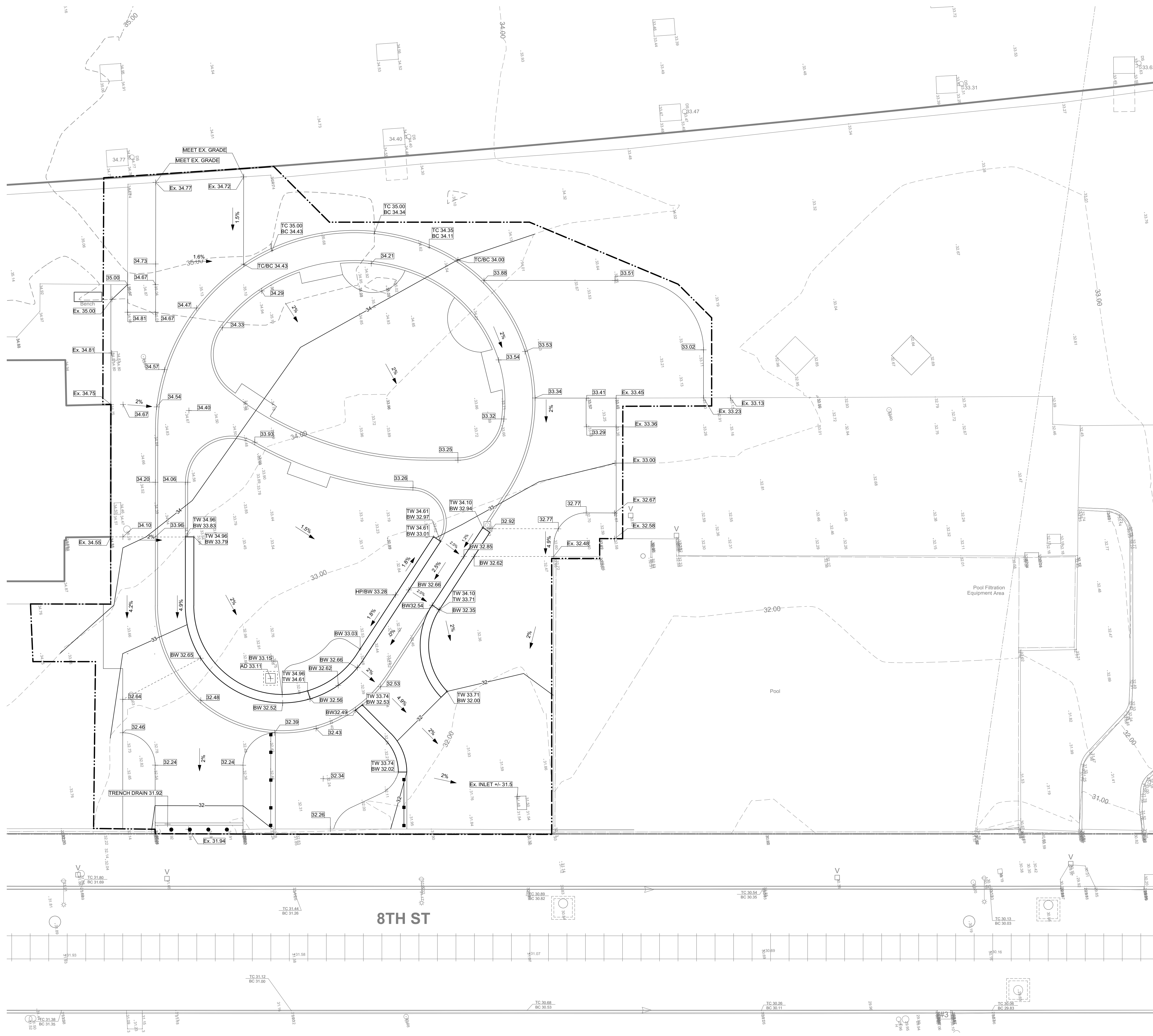
**PROJECT TITLE**  
East Poplar Playground

**DRAWING TITLE**  
LAYOUT PLAN

PROJECT NO.	DRAWING NO.
DATE: 02.07.2020	<b>L-1.2</b>
SCALE: 1" = 10'	
DRAWN BY: WM/JBJ/JDD	
CHECKED BY: JB	

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





**LEGEND**

	LIMIT OF DISTURBANCE
	PROPOSED SPOT ELEVATION
	TOP OF CURB
	BOTTOM OF CURB
	TOP OF WALL
	BOTTOM OF WALL
	EXISTING SPOT ELEVATION
	PROPOSED CONTOUR
	EXISTING CONTOUR
	SLOPE

- NOTES:**
- PRESERVE AND PROTECT ALL EXISTING TO REMAIN STRUCTURES, FURNISHING, SURFACE MATERIALS, ABOVE AND BELOW GRADE UTILITIES, FOOTING AND VEGETATION WITHIN AND ADJACENT TO CONSTRUCTION AREA DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.
  - MEET ALL EXISTING GRADES AT ALL EDGES OF PROJECT. ADJUST EXISTING INLETS, DRAINS, VENTS, VALVE, ETC. TO MEET FINISH GRADES.
  - VERIFY EXISTING CONDITION SPOT ELEVATIONS PRIOR TO START OF WORK. NOTIFY LANDSCAPE ARCHITECT IF EX. SPOT ELEVATIONS OR PROPOSED SLOPES CANNOT BE ACHIEVED.
  - CROSS SLOPE SHALL NOT EXCEED 2%. LONGITUDINAL SLOPE SHALL NOT EXCEED 4.9%.

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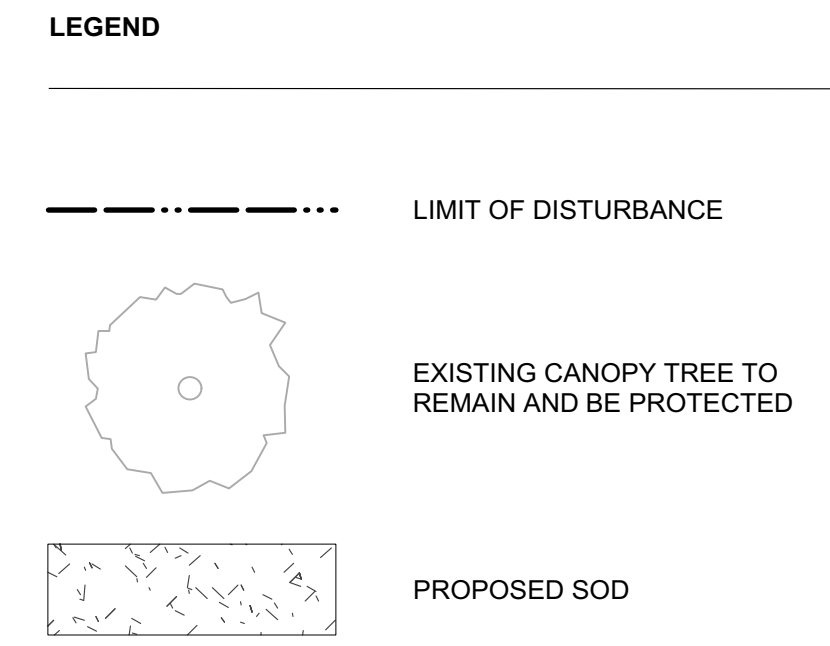
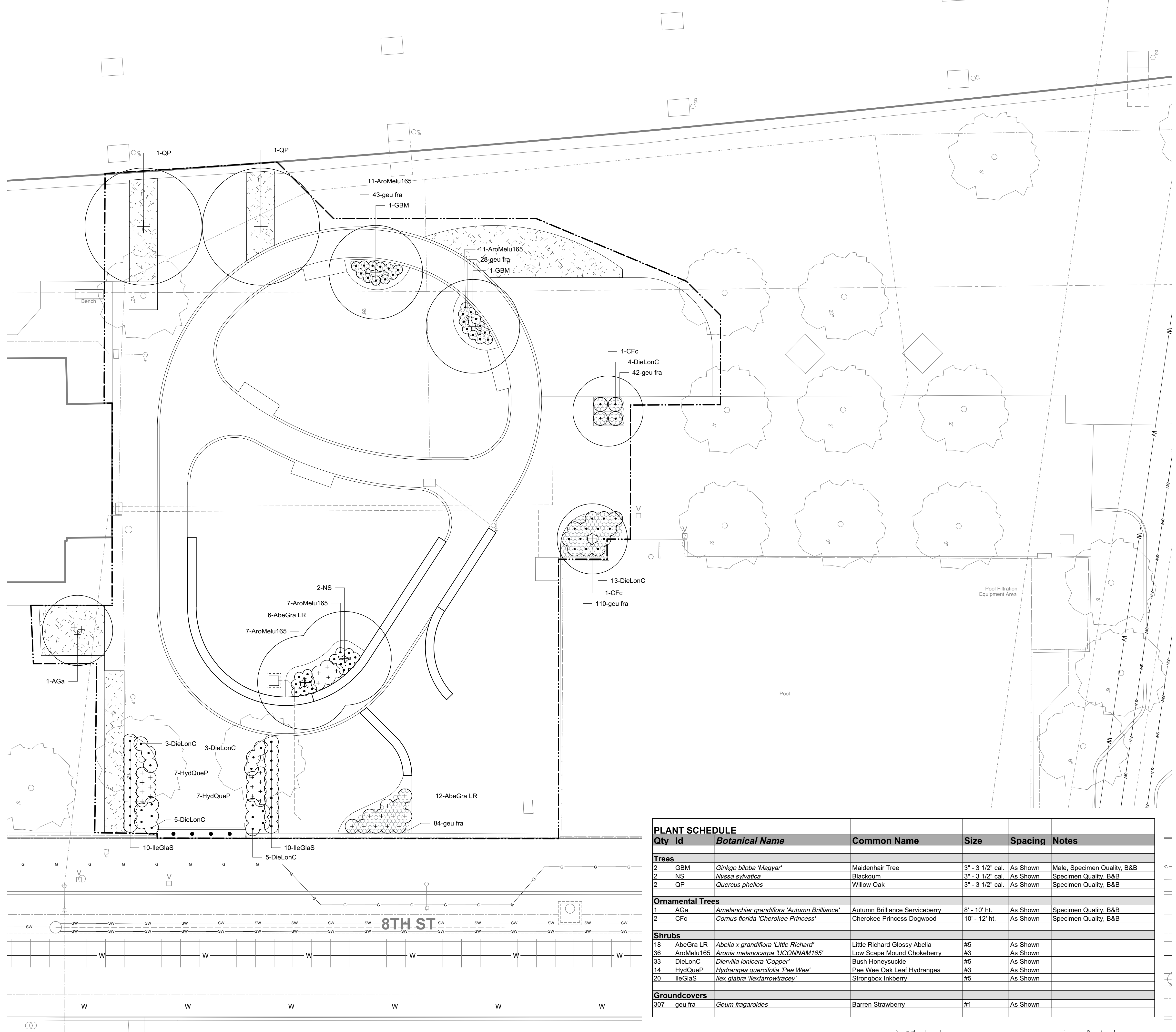
**PROJECT TITLE**  
**East Poplar Playground**

**DRAWING TITLE**  
**GRADING PLAN**

PROJECT NO.	DRAWING NO.
DATE: 02.07.2020	<b>L-1.3</b>
SCALE: 1" = 10'	
DRAWN BY: WM/JBJ/JDD	
CHECKED BY: JB	

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





**NOTES:**

- REFER TO L-2.4 FOR PLANTING DETAILS.
- SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.

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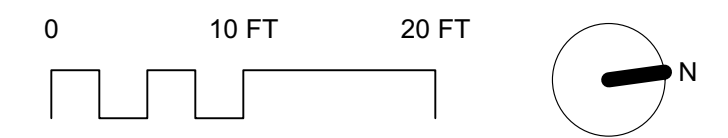
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**PROJECT TITLE**  
**East Poplar Playground**

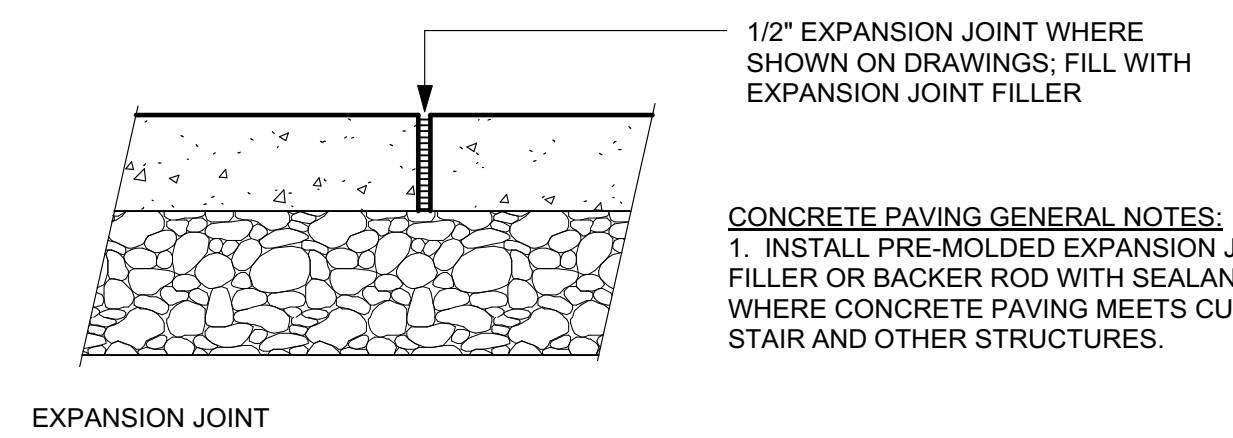
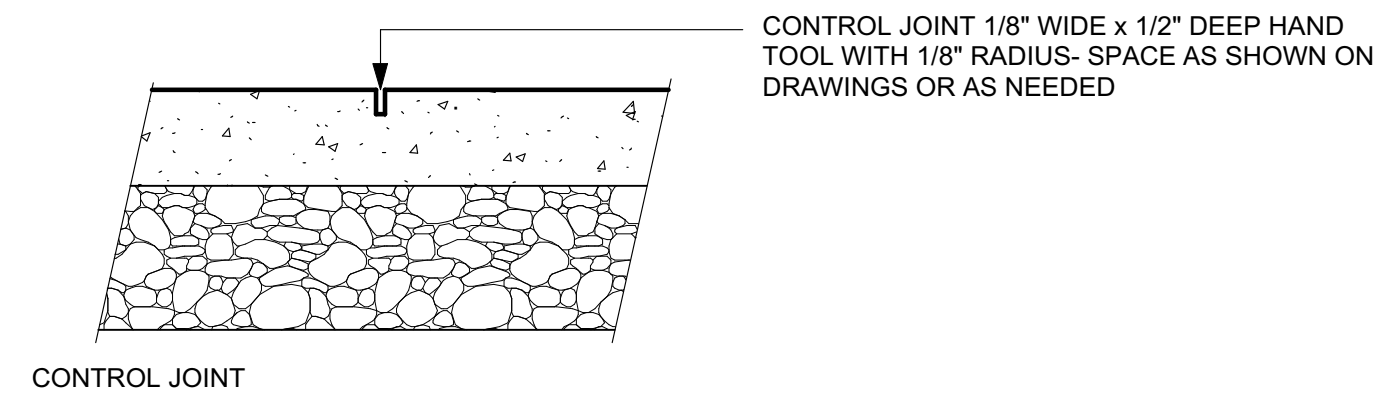
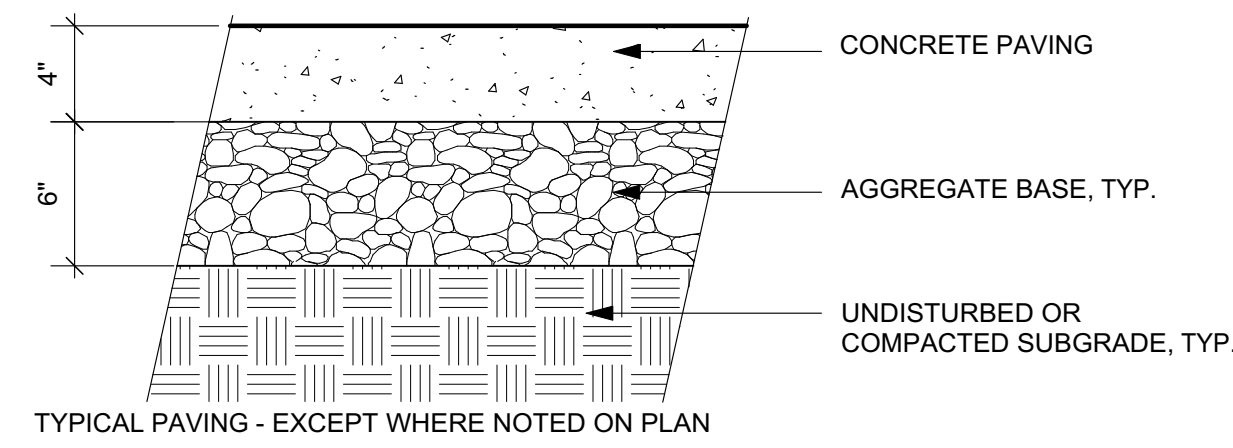
**DRAWING TITLE**  
**PLANTING PLAN**

PROJECT NO.	DRAWING NO.
DATE: 02.07.2020	<b>L-1.4</b>
SCALE: 1" = 10'	
DRAWN BY: WM/JBJ/JJD	
CHECKED BY: JB	
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.	

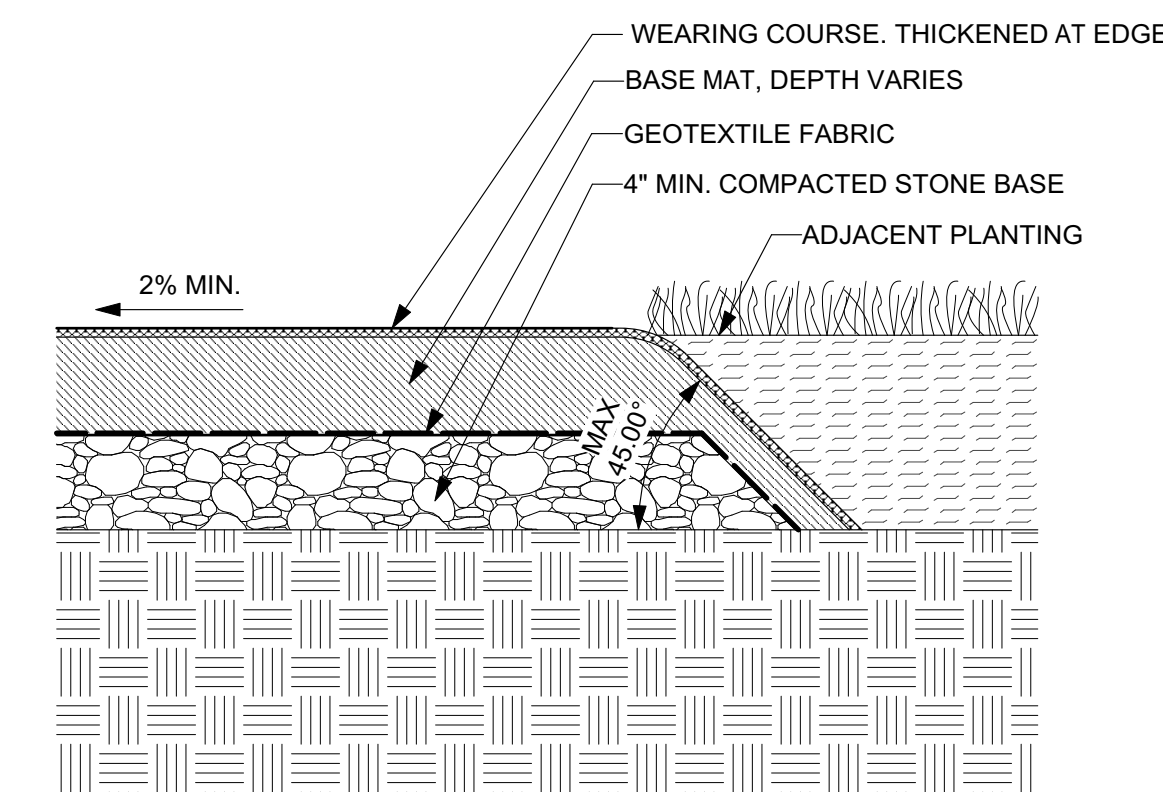
PLANT SCHEDULE						
Qty	Id	Botanical Name	Common Name	Size	Spacing	Notes
<b>Trees</b>						
2	GBM	<i>Ginkgo biloba</i> 'Magyar'	Maidenhair Tree	3" - 3 1/2" cal.	As Shown	Male, Specimen Quality, B&B
2	NS	<i>Nyssa sylvatica</i>	Blackgum	3" - 3 1/2" cal.	As Shown	Specimen Quality, B&B
2	QP	<i>Quercus phellos</i>	Willow Oak	3" - 3 1/2" cal.	As Shown	Specimen Quality, B&B
<b>Ornamental Trees</b>						
1	AGa	<i>Amelanchier grandiflora</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	8' - 10' ht.	As Shown	Specimen Quality, B&B
2	CFc	<i>Cornus florida</i> 'Cherokee Princess'	Cherokee Princess Dogwood	10' - 12' ht.	As Shown	Specimen Quality, B&B
<b>Shrubs</b>						
18	AbeGra LR	<i>Abelia x grandiflora</i> 'Little Richard'	Little Richard Glossy Abelia	#5	As Shown	
36	AroMelu165	<i>Aronia melanocarpa</i> 'UCONNAM165'	Low Scape Mound Chokeberry	#3	As Shown	
33	DieLonC	<i>Diervilla lonicera</i> 'Copper'	Bush Honeysuckle	#5	As Shown	
14	HydQueP	<i>Hydrangea quercifolia</i> 'Pee Wee'	Pee Wee Oak Leaf Hydrangea	#3	As Shown	
20	IleGlaS	<i>Ilex glabra</i> 'Ilextarrotracey'	Strongbox Inkberry	#5	As Shown	
<b>Groundcovers</b>						
307	geu fra	<i>Geum fragaroides</i>	Barren Strawberry	#1	As Shown	



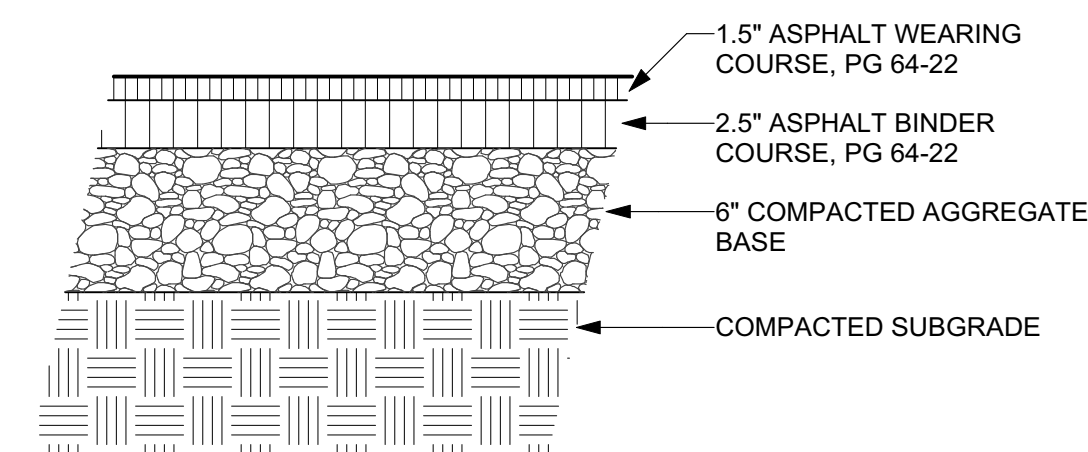




1 CONCRETE PAVING, TYP.  
Scale: 1-1/2" = 1'-0"

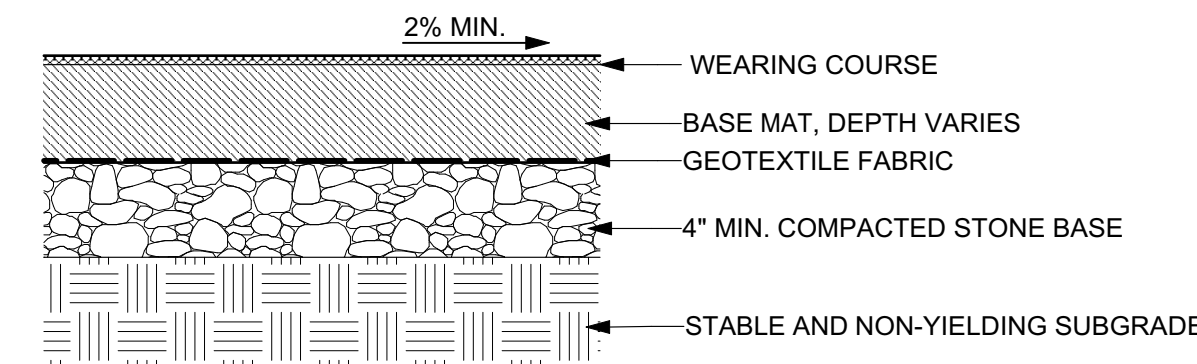


6 BONDED RUBBER SAFETY SURFACE / PLANT BED TRANSITION  
Scale: 1-1/2" = 1'-0"

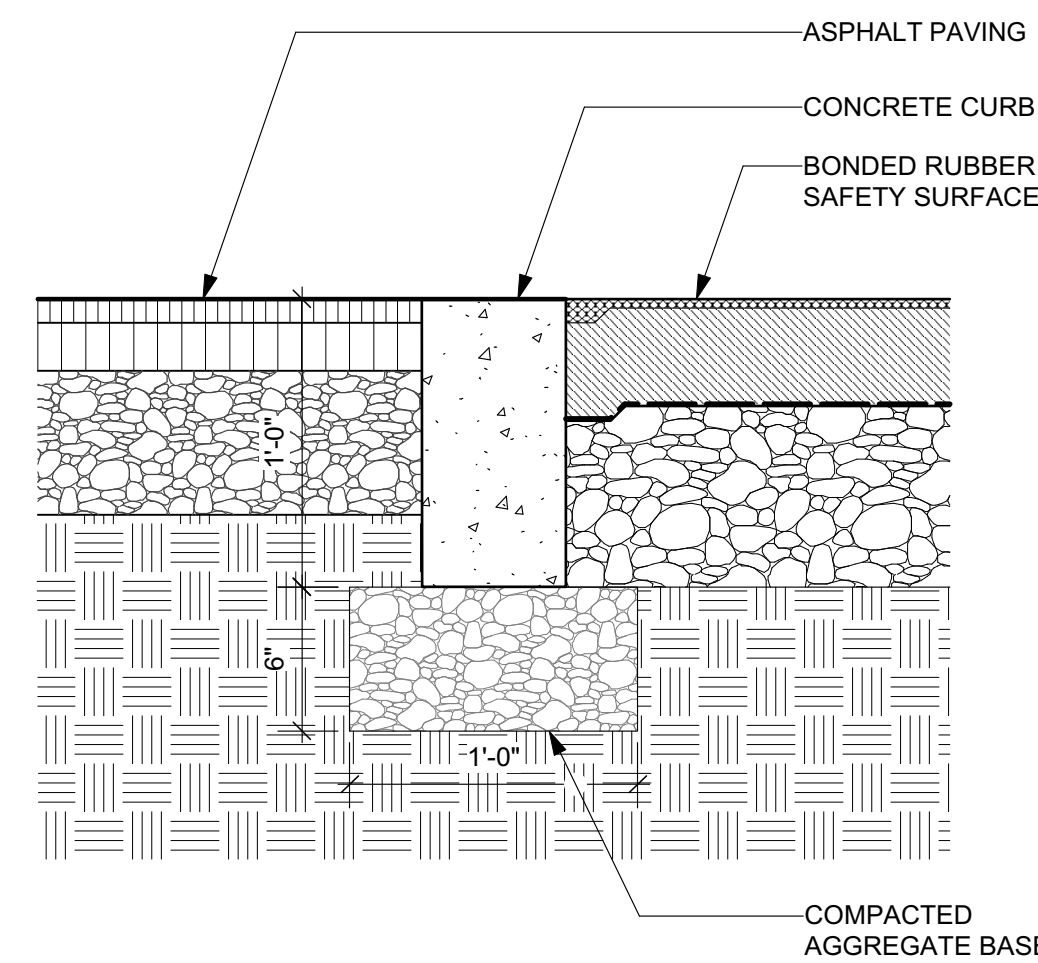


2 ASPHALT PAVING, TYP.  
Scale: 1-1/2" = 1'-0"

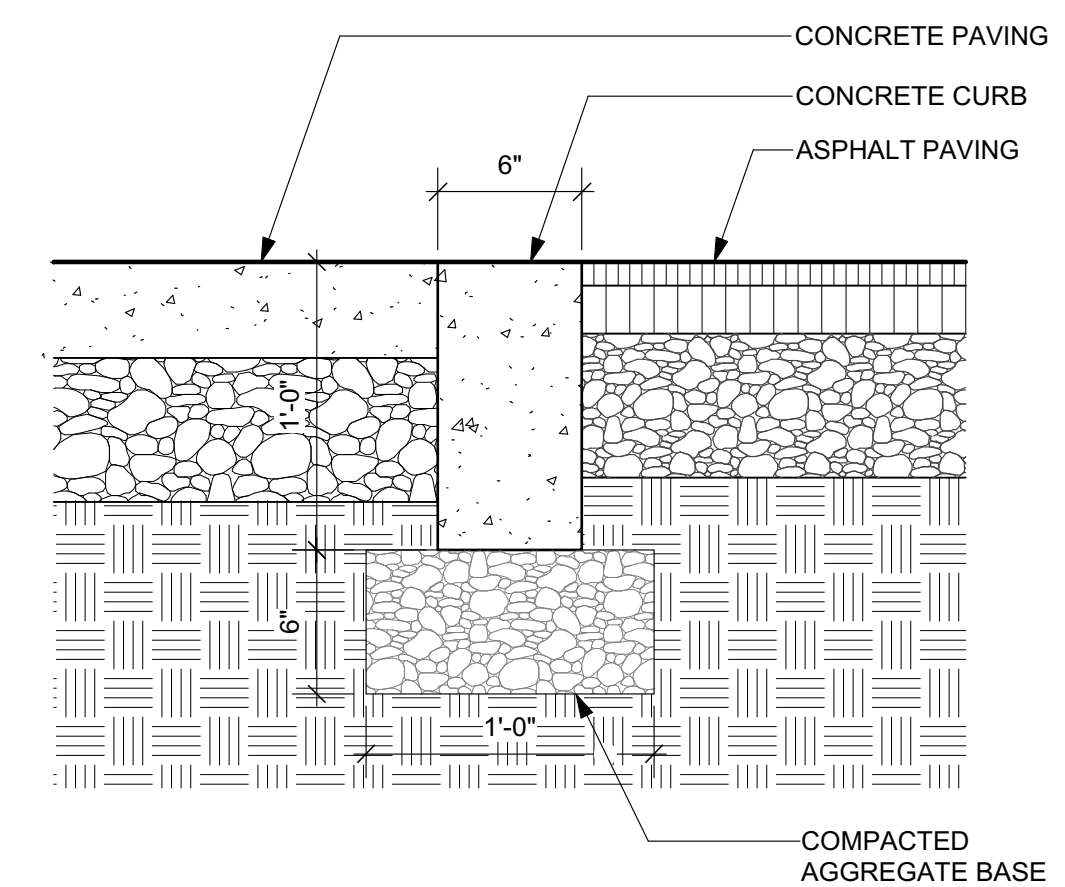
**NOTE:**  
 1. SAFETY SURFACE DEPTH MUST MEET OR EXCEED THAT WHICH IS REQUIRED TO MEET THE CRITICAL FALL HEIGHT CRITERIA OF EACH PIECE OF EQUIPMENT, PPR STANDARDS, ASTM-F1292-13, OR MOST RECENT EDITION STANDARD.



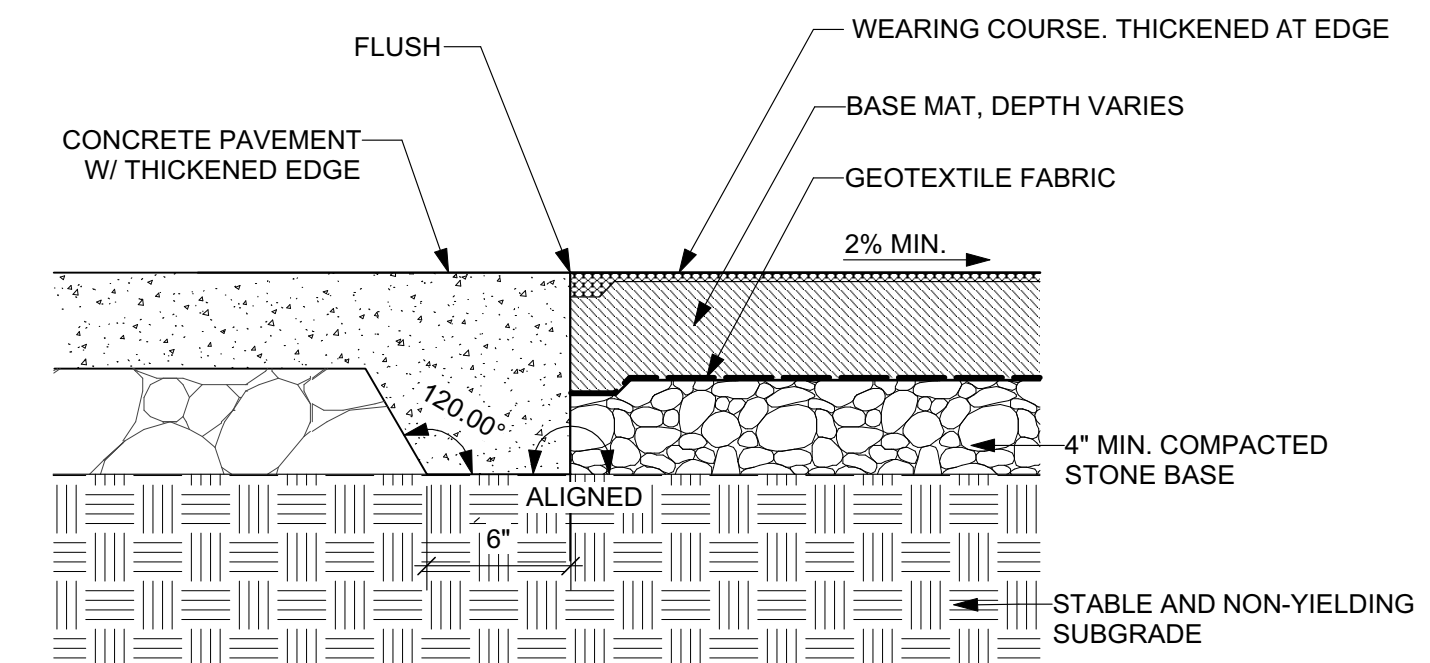
4 BONDED RUBBER SAFETY SURFACE, TYP.  
Scale: 1-1/2" = 1'-0"



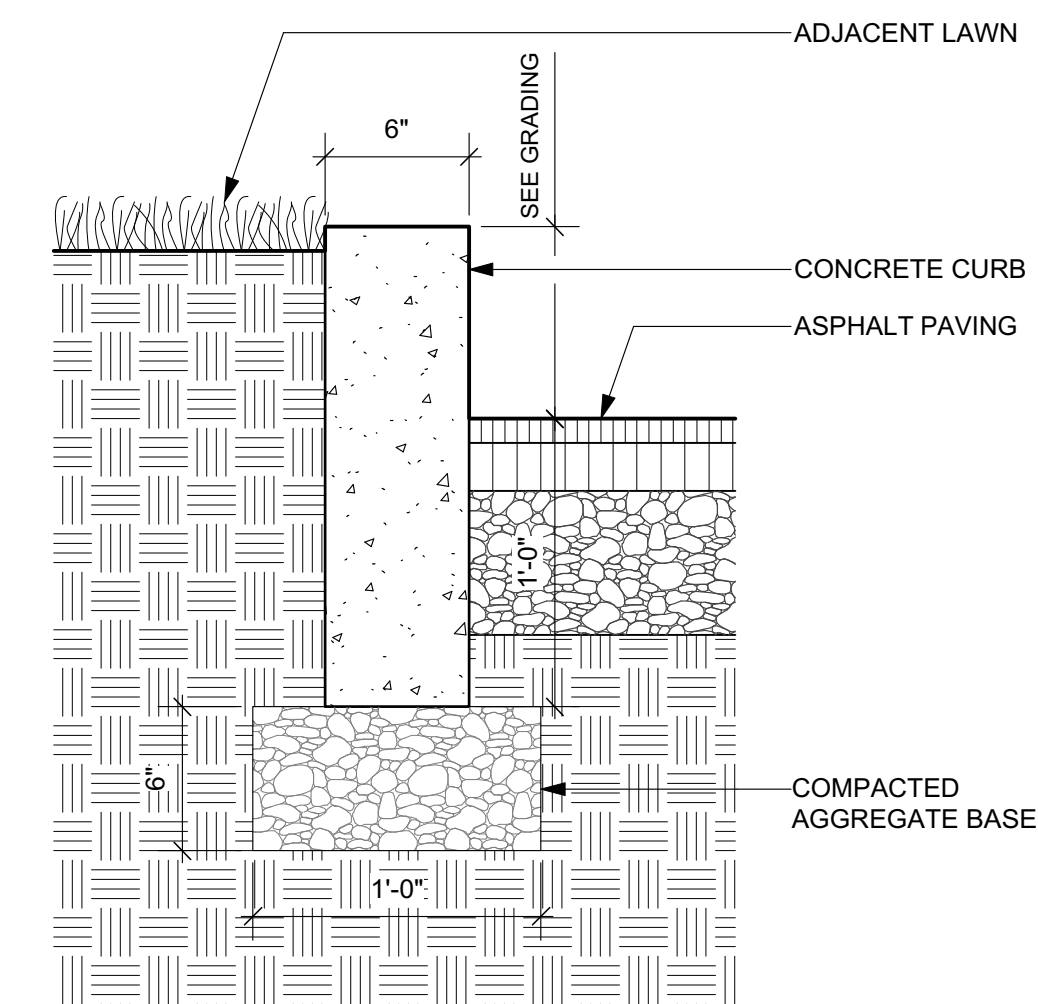
7 CONCRETE CURB - ASPHALT PAVING / BONDED RUBBER SAFETY SURFACE TRANSITION  
Scale: 1-1/2" = 1'-0"



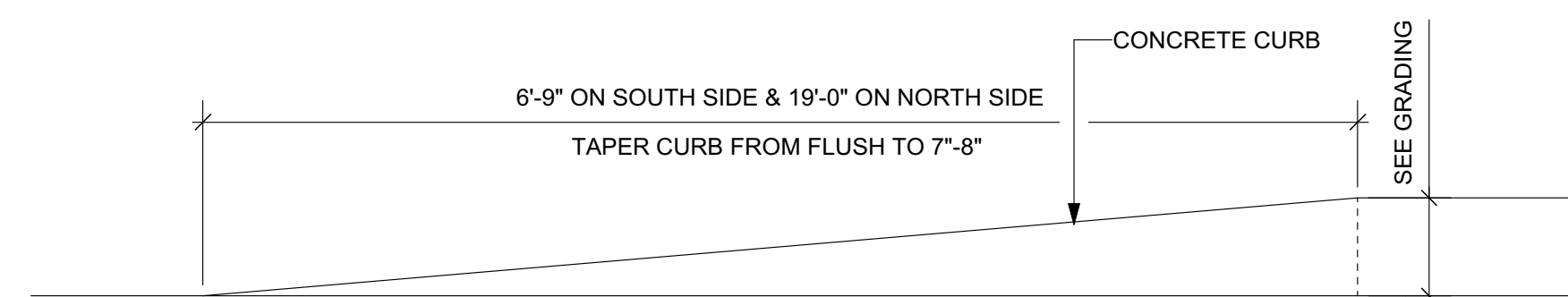
3 CONCRETE CURB - CONCRETE PAVING / ASPHALT PAVING  
Scale: 1-1/2" = 1'-0"



5 BONDED RUBBER SAFETY SURFACE / CONCRETE TRANSITION  
Scale: 1-1/2" = 1'-0"



8 CONCRETE CURB  
Scale: 1-1/2" = 1'-0"



9 TAPERED CONCRETE CURB  
Scale: 1" = 1'-0"

REVISIONS		
ISSUE	DATE	DESCRIPTION

PROJECT COORDINATOR  
 Philadelphia Parks & Recreation  
 and Department of Public Property  
 1515 Arch Street, 10th Floor  
 Philadelphia, PA 19102  
 Contact: Nancy Q. O'Donnell, 215.832.2174

SEAL

PROJECT TEAM  
 Landscape Architect:  
**Ground Reconsidered**  
 230 South Broad Street, Suite 604  
 Philadelphia, PA 19102  
 215.790.0727 | www.groundreconsidered.com  
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CITY OF PHILADELPHIA  
 DEPARTMENT OF PUBLIC PROPERTY  
 1515 ARCH STREET  
 11TH FLOOR, ONE PARKWAY BUILDING  
 PHILADELPHIA, PENNSYLVANIA

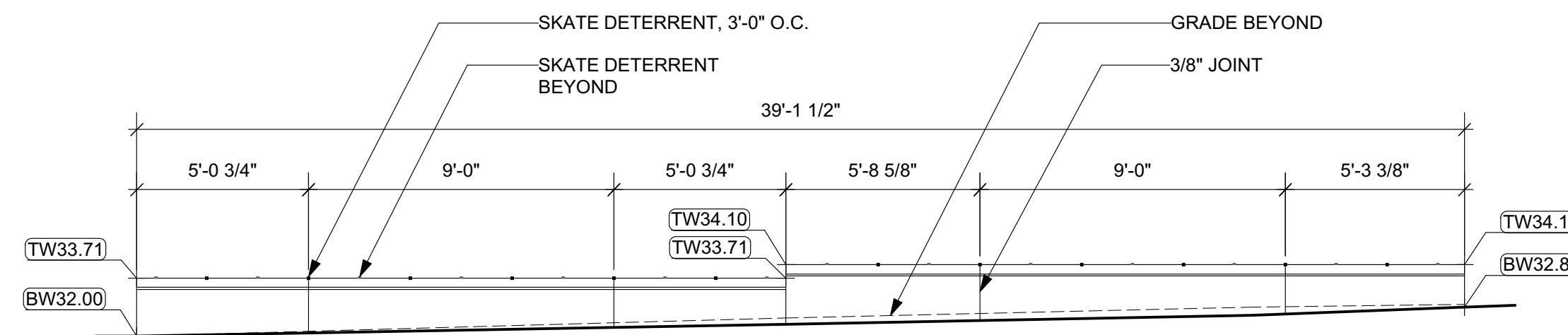
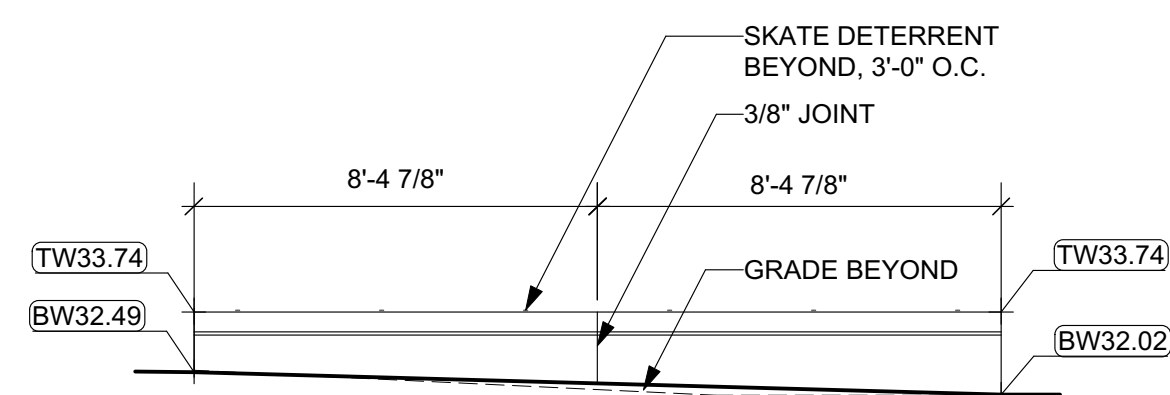
PROJECT TITLE  
**East Poplar Playground**

DRAWING TITLE  
**SITE DETAILS**

PROJECT NO.	DRAWING NO.
DATE: 02.07.2020	<b>L-2.1</b>
SCALE: AS SHOWN	
DRAWN BY: WM/JB/JDD	
CHECKED BY: JB	

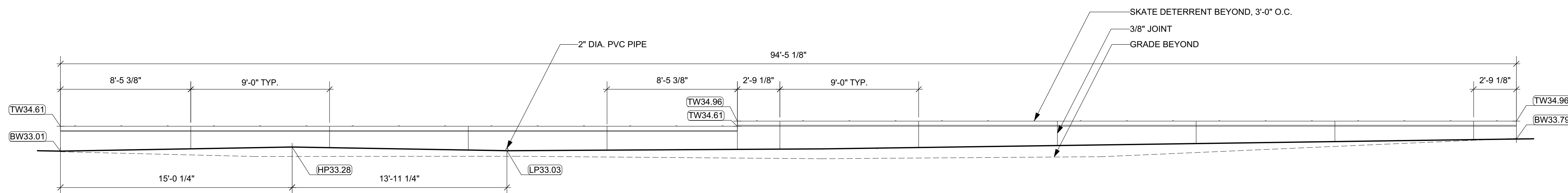
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.





1 FLATTENED CURVED CONCRETE WALL ELEVATION - 6-23 MONTH PLAY AREA  
Scale: 1/4" = 1'-0"

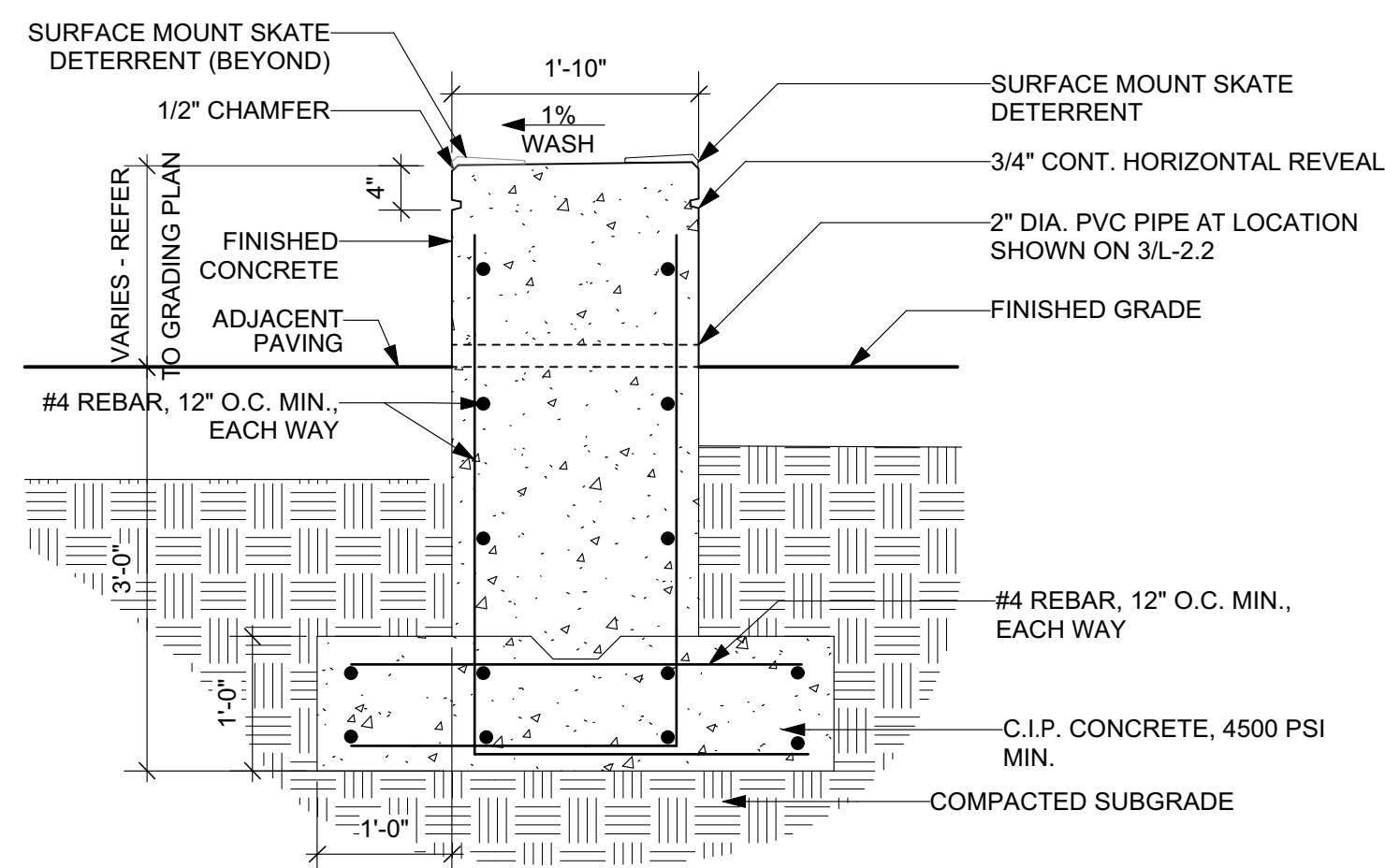
2 FLATTENED CURVED CONCRETE WALL ELEVATION - SPRAYGROUND  
Scale: 1/4" = 1'-0"



3 FLATTENED CURVED CONCRETE WALL ELEVATION - AGE 2-5 PLAY AREA  
Scale: 1/4" = 1'-0"

NOTE:

1. ASSUME 9'-0" O.C. VERTICAL JOINTING
2. SKATE DETERRENTS SHALL BE INSTALLED ON SIDES OF WALLS ADJACENT TO ASPHALT AND CONCRETE, NOT SAFETY SURFACE.



4 FREESTANDING SEAT WALL SECTION  
Scale: 3/4" = 1'-0"

REVISIONS		
ISSUE	DATE	DESCRIPTION

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Philadelphia, PA 19102  
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**SEAL**

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

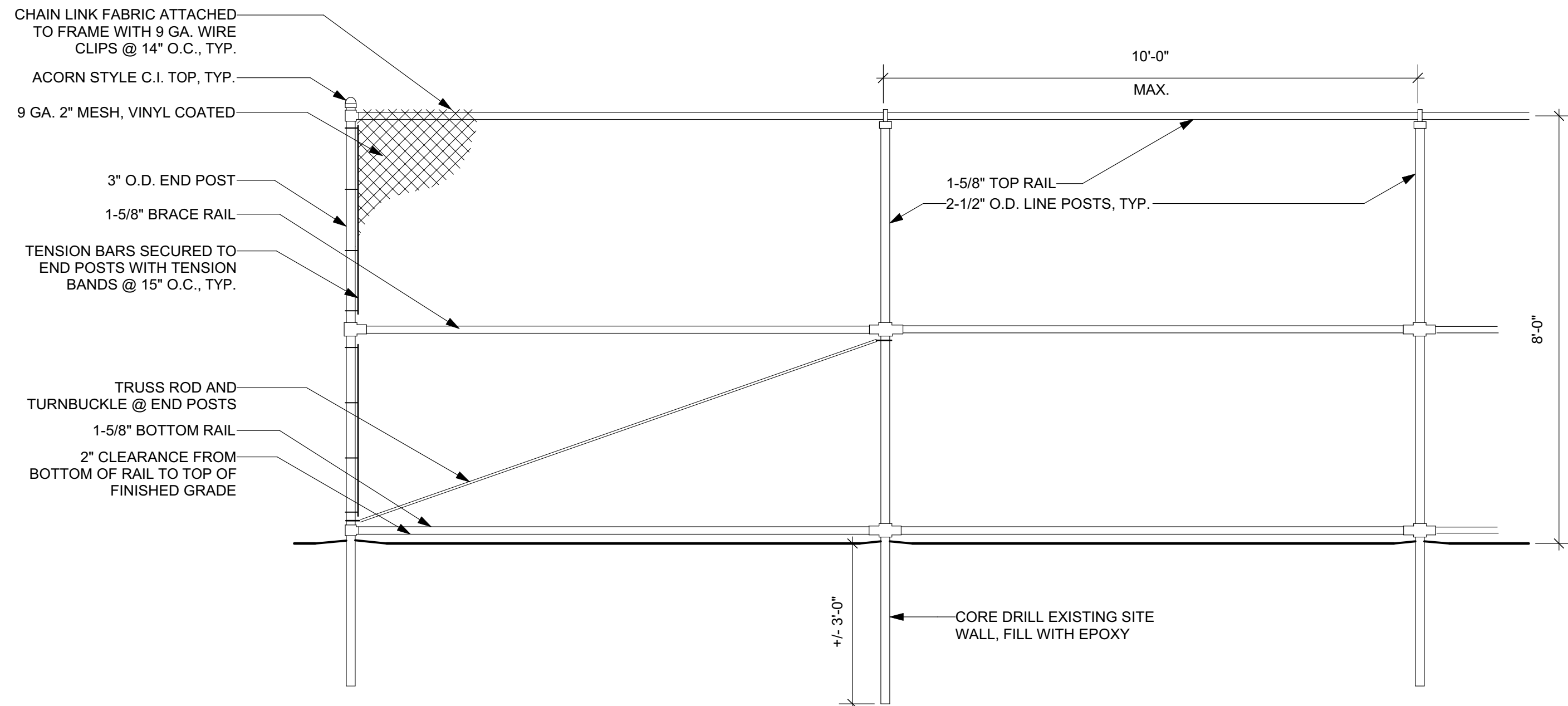
**PROJECT TITLE**  
East Poplar Playground

**DRAWING TITLE**  
SITE DETAILS

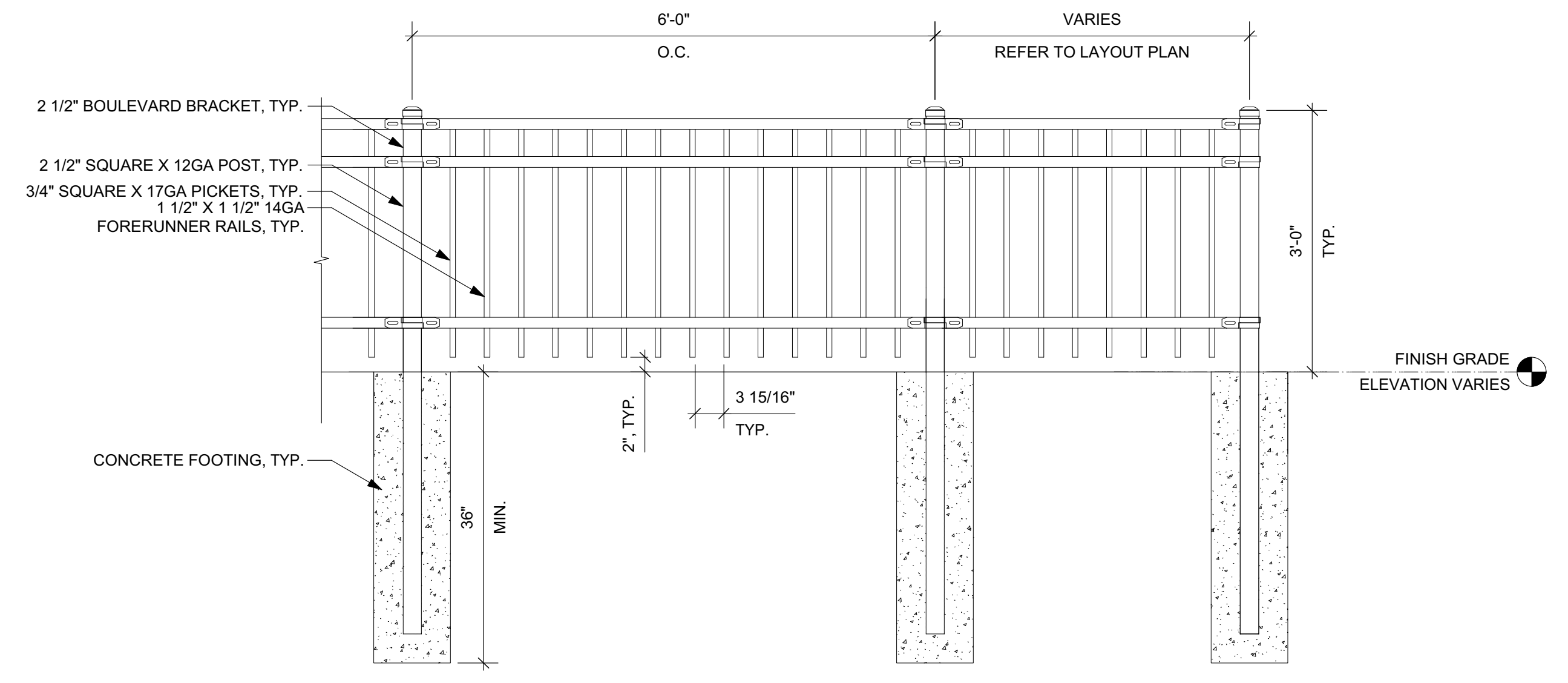
PROJECT NO.	DRAWING NO.
DATE: 02.07.2020	<b>L-2.2</b>
SCALE: AS SHOWN	
DRAWN BY: WM/JBJ/JJD	
CHECKED BY: JB	

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

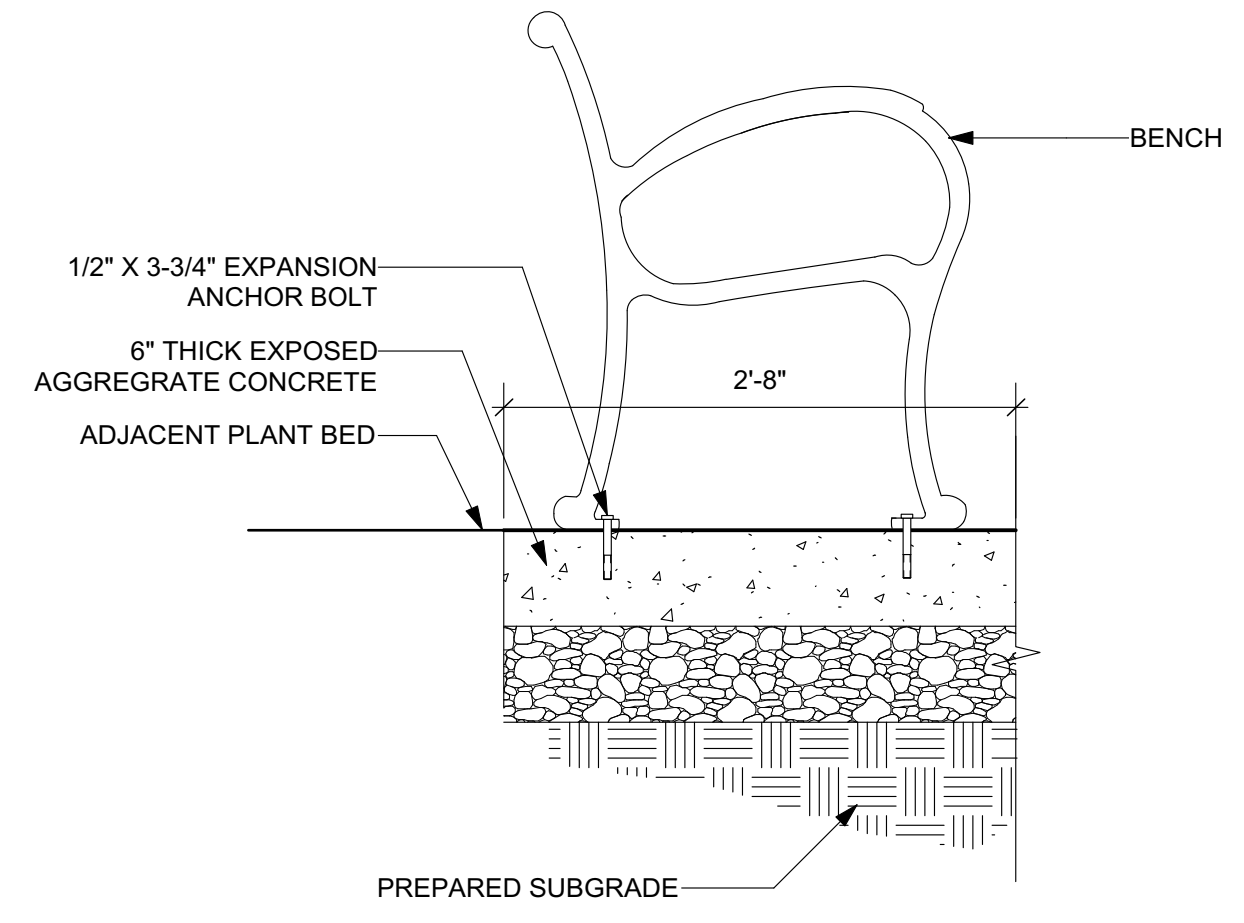




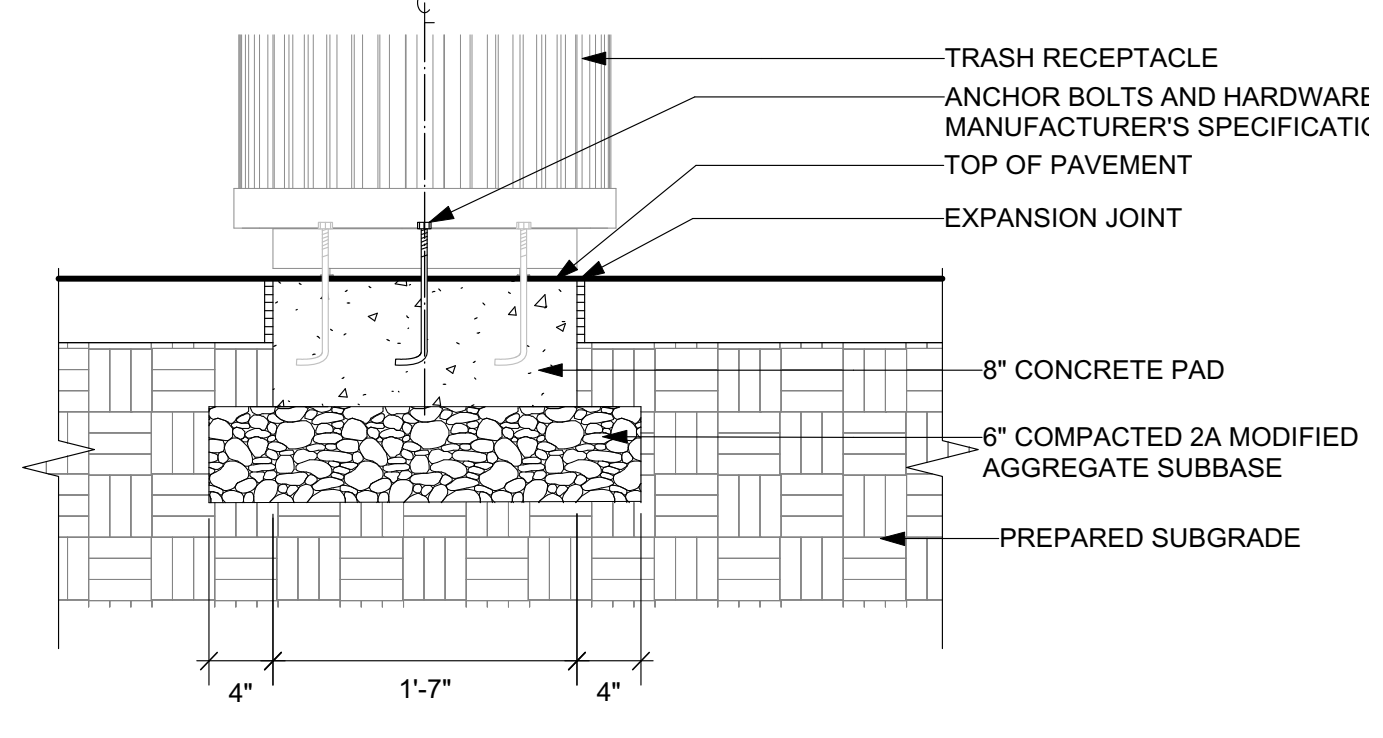
1 FENCE TYPE 1  
L-2.3 Scale: 1/2" = 1'-0"



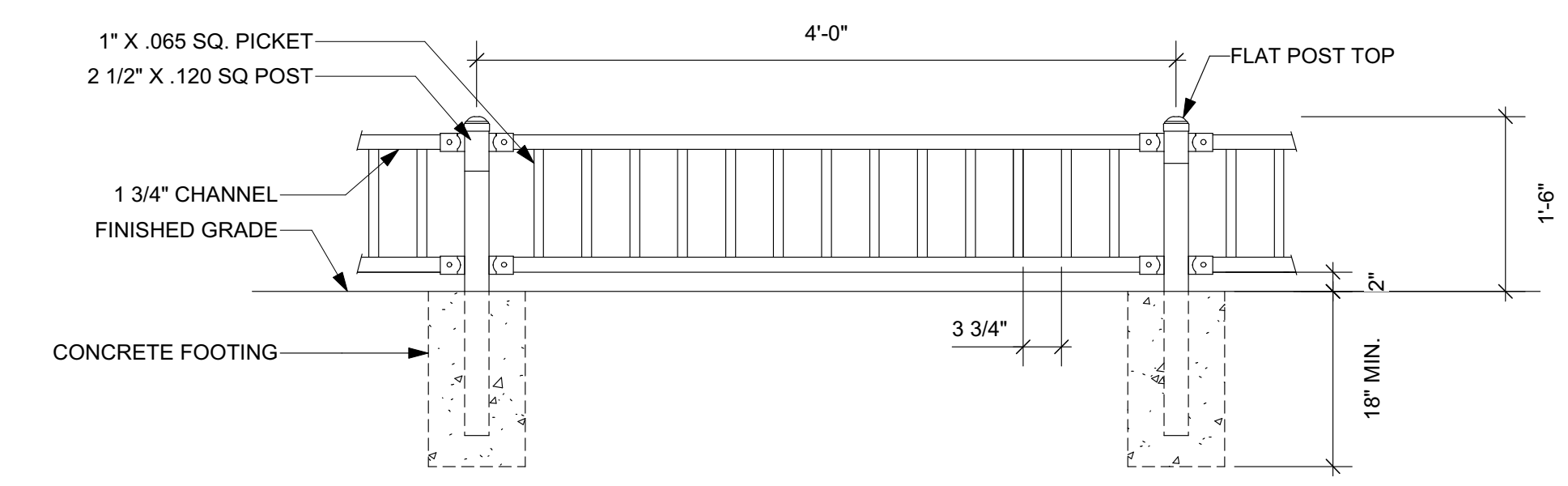
2 FENCE TYPE 2  
L-2.3 Scale: 3/4" = 1'-0"



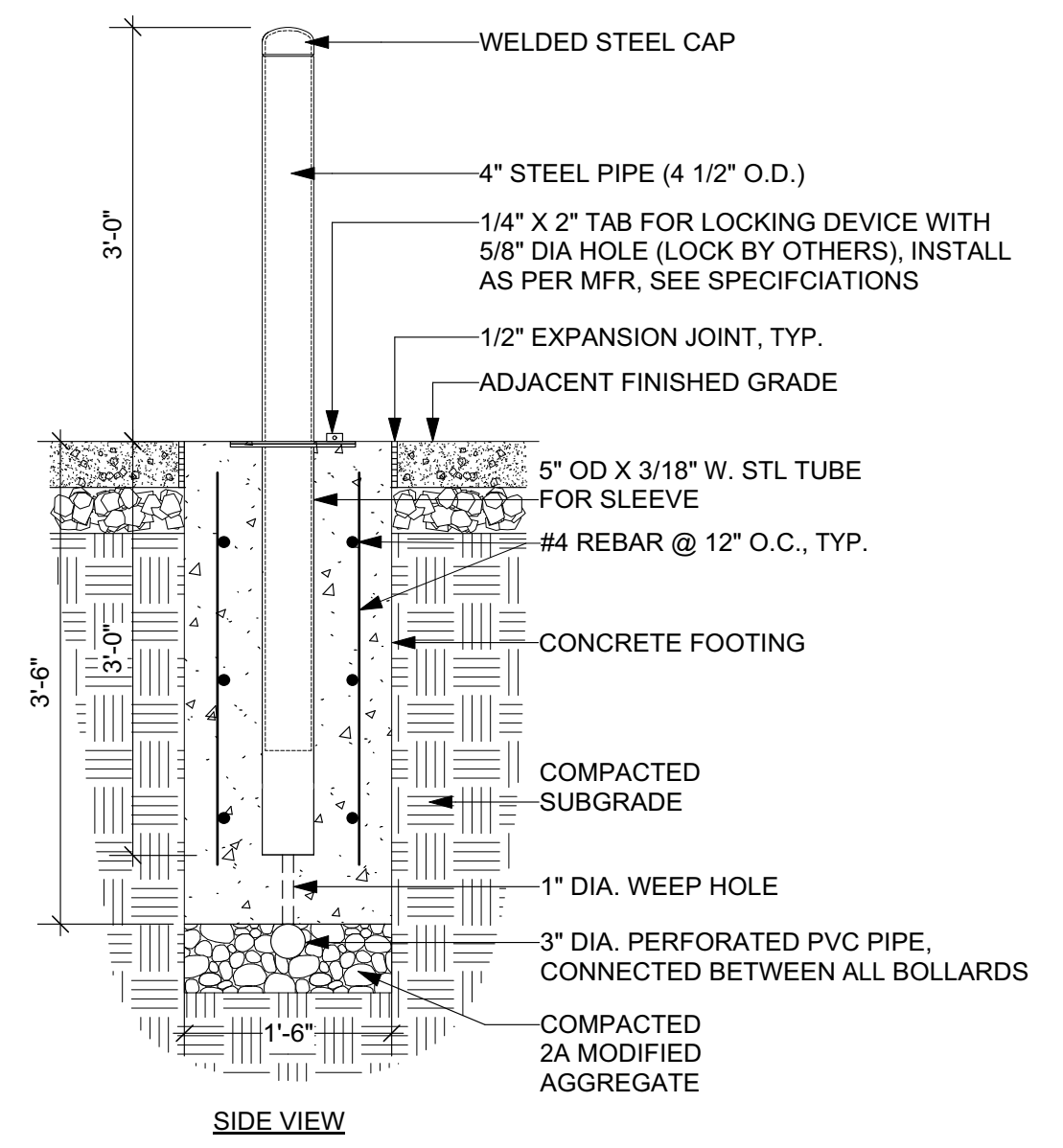
3 BENCH  
L-2.3 Scale: 1" = 1'-0"



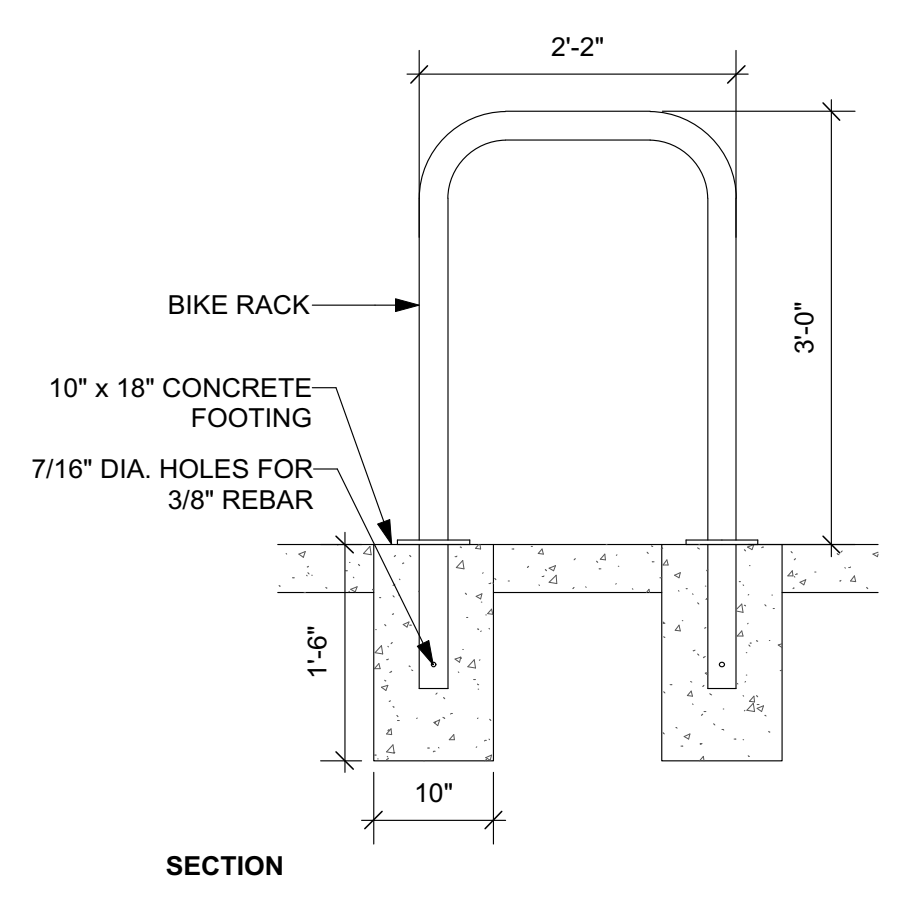
4 TRASH RECEPTACLE  
L-2.3 Scale: 1" = 1'-0"



5 FENCE TYPE 3, TYP.  
L-2.3 Scale: 3/4" = 1'-0"



6 REMOVABLE BOLLARD  
L-2.3 Scale: 3/4" = 1'-0"



7 BIKE RACK  
L-2.3 Scale: 3/4" = 1'-0"

REVISIONS		
ISSUE	DATE	DESCRIPTION



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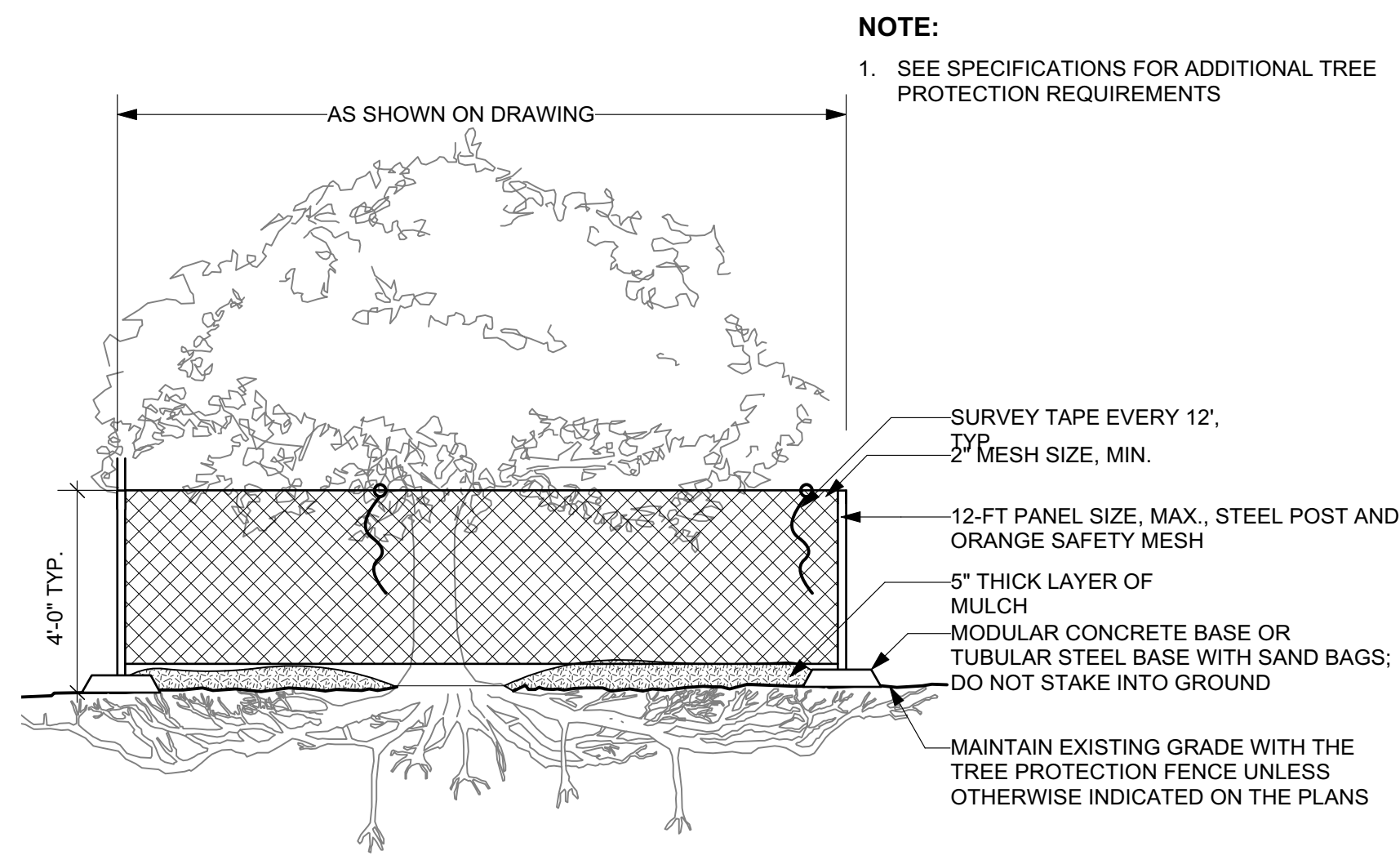
CITY OF PHILADELPHIA  
DEPARTMENT OF PUBLIC PROPERTY  
1515 ARCH STREET  
11TH FLOOR, ONE PARKWAY BUILDING  
PHILADELPHIA, PENNSYLVANIA

PROJECT TITLE  
**East Poplar Playground**

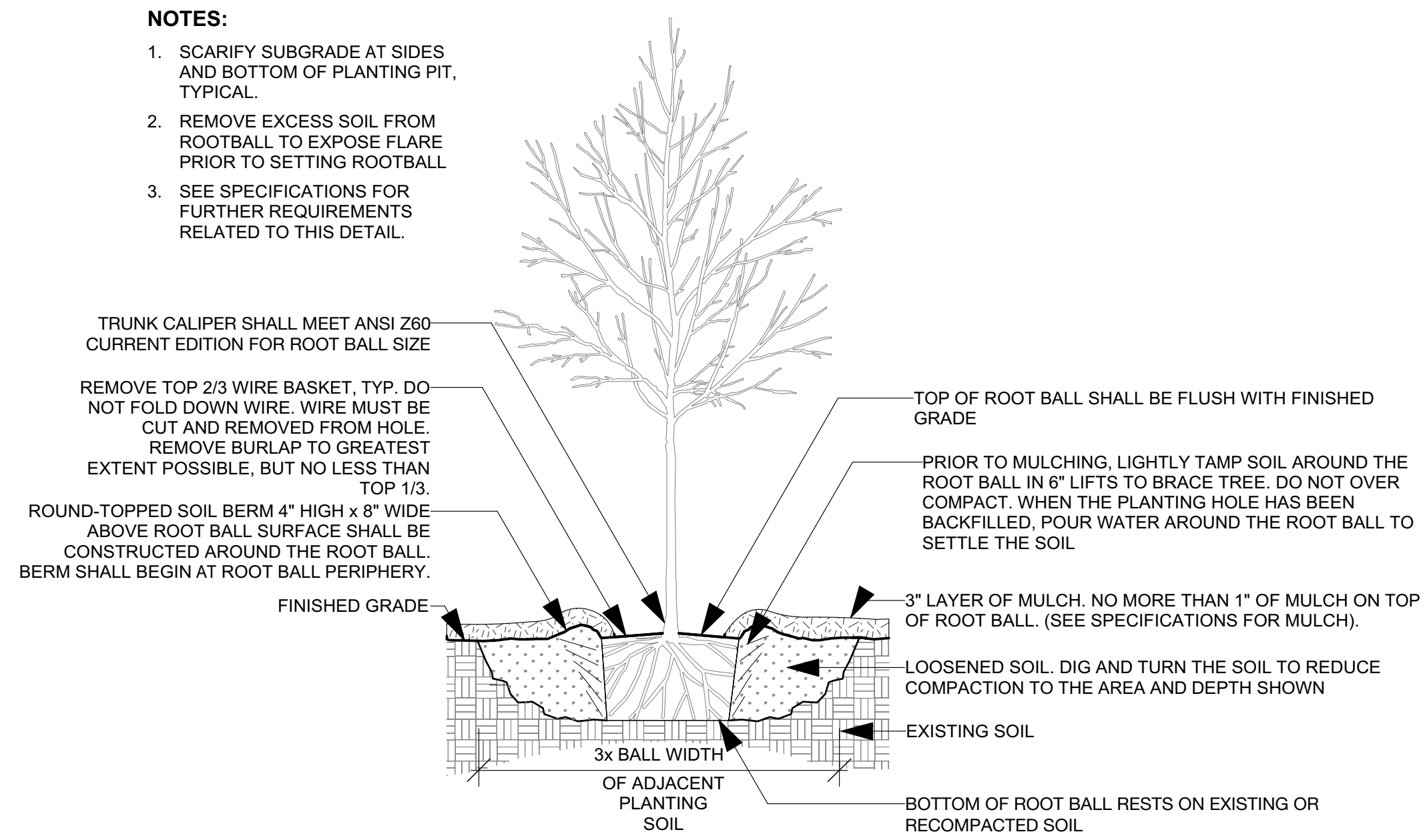
DRAWING TITLE  
**SITE DETAILS**

PROJECT NO.	DRAWING NO.
DATE: 02.07.2020	<b>L-2.3</b>
SCALE: AS SHOWN	
DRAWN BY: WM/JB/JDD	
CHECKED BY: JB	
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.	

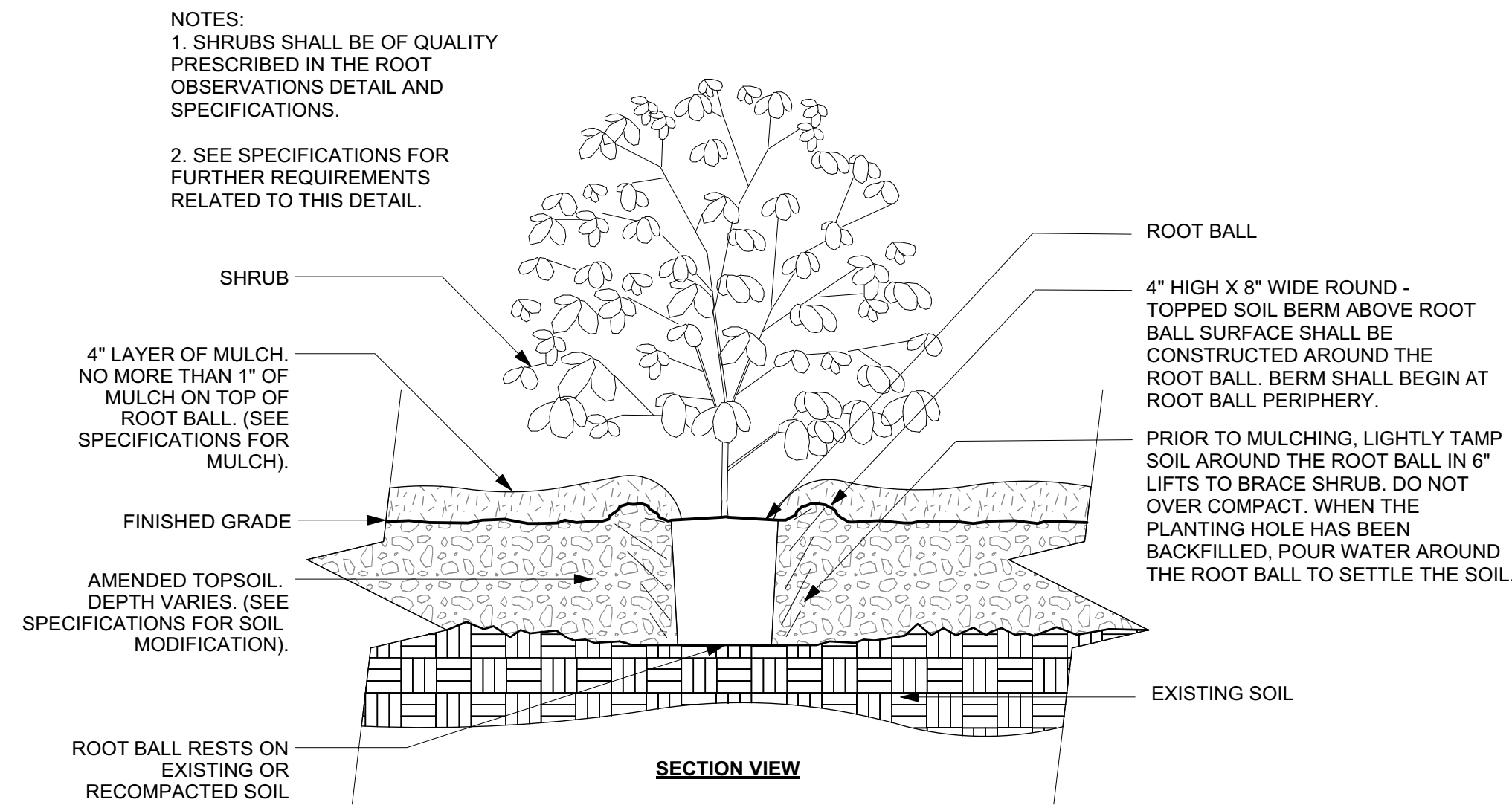




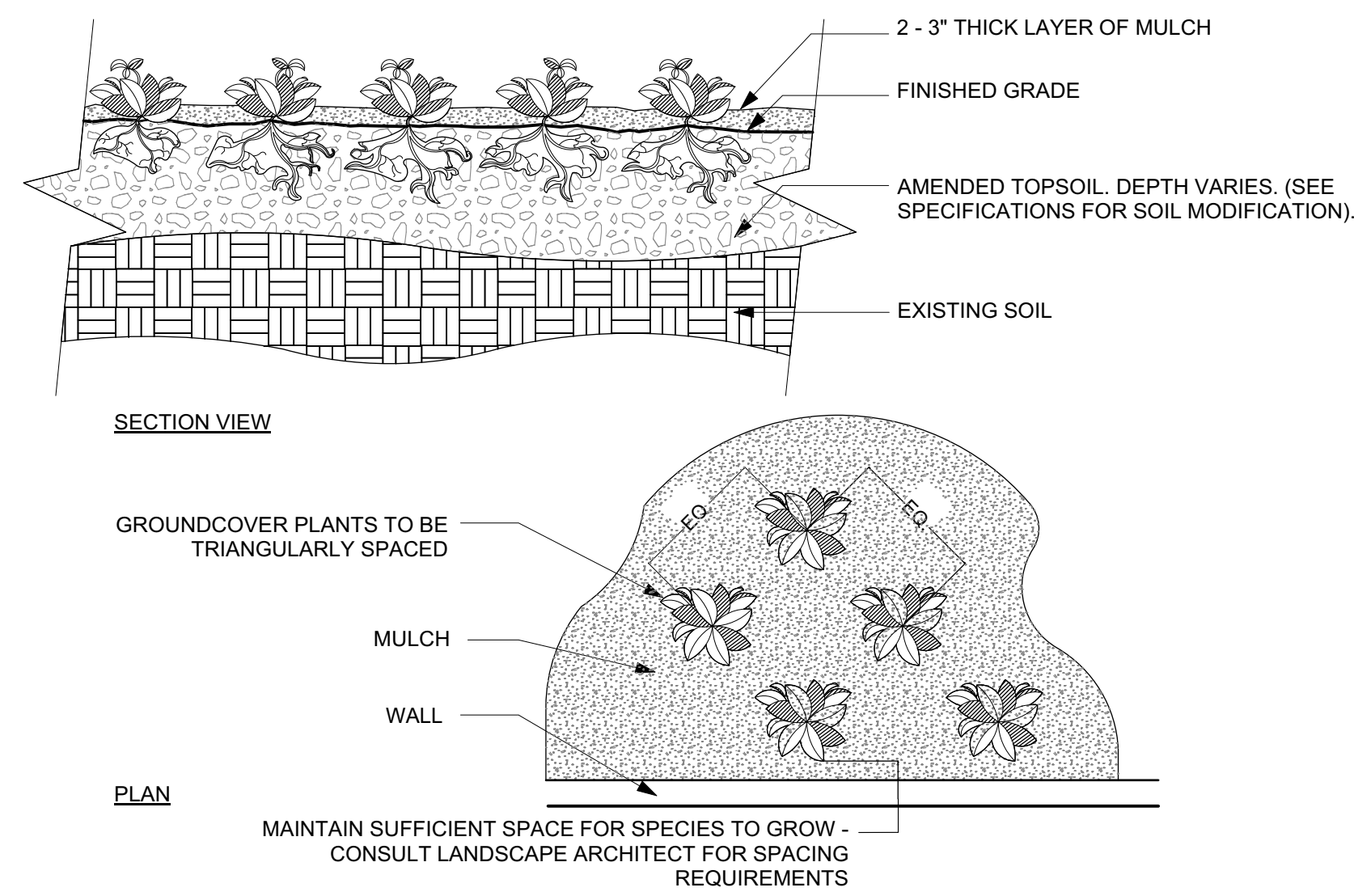
1 TREE PROTECTION FENCE  
L-2.4 Scale: 1/4" = 1'-0"



2 TREE PLANTING, TYP.  
L-2.4 Scale: 1/2" = 1'-0"



3 SHRUB PLANTING, TYP.  
L-2.4 Scale: 3/4" = 1'-0"



**NOTES:**  
1. SMALL ROOTS (1/4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL).  
2. SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.

4 HERBACEOUS PLANTING, TYP.  
L-2.4 Scale: 3/4" = 1'-0"

REVISIONS		
ISSUE	DATE	DESCRIPTION



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Philadelphia Parks & Recreation  
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Philadelphia, PA 19102  
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PROJECT TEAM

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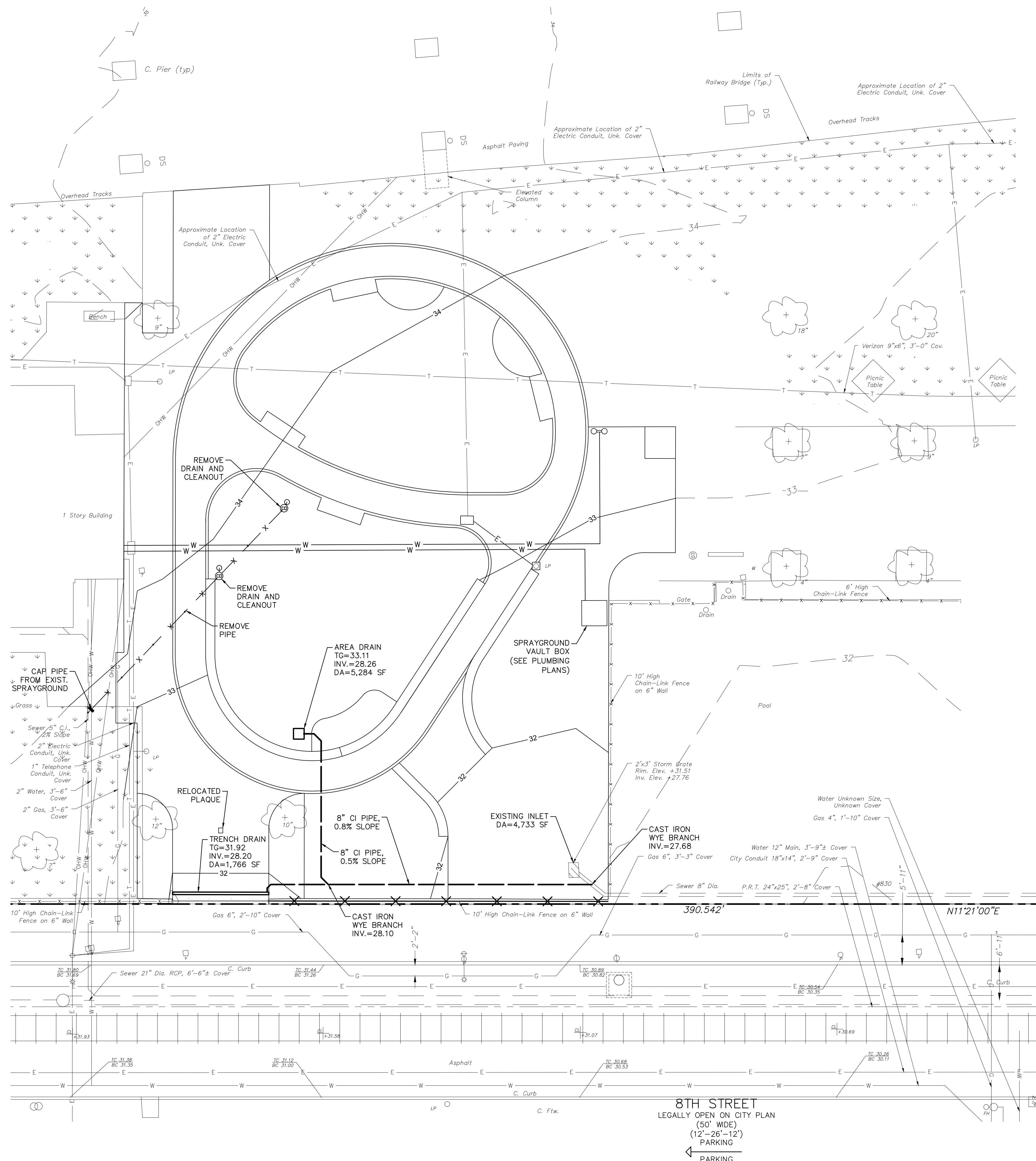
CITY OF PHILADELPHIA  
DEPARTMENT OF PUBLIC PROPERTY  
1515 ARCH STREET  
11TH FLOOR, ONE PARKWAY BUILDING  
PHILADELPHIA, PENNSYLVANIA

PROJECT TITLE  
**East Poplar Playground**

DRAWING TITLE  
**PLANTING DETAILS**

PROJECT NO.	DRAWING NO.
DATE: 02.07.2020	<b>L-2.4</b>
SCALE: AS SHOWN	
DRAWN BY: WMJBJJD	
CHECKED BY: JB	
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.	





### LEGEND

EXISTING		PROPOSED	
—	PROPERTY LINES	—	CURB
G	GAS LINE	X	PIPE REMOVAL
T	TELEPHONE CONDUIT	W	WATER LATERAL (SEE PLUMBING PLANS)
W	POTABLE WATER	E	ELECTRIC CONDUIT (SEE ELECTRICAL PLANS)
S	COMBINED SEWER	—	STORM SEWER
S	SANITARY SEWER	□	AREA DRAIN
E	ELECTRIC CONDUIT		
OHW	ELECTRIC OVERHEAD LINE		
X	FENCE		
U	UNKNOWN MANHOLE		
T	TELEPHONE MANHOLE		
S	SANITARY MANHOLE		
W	WATER MANHOLE		
○ W	WATER VALVE		
○ G	GAS VALVE		
○ U	UNKNOWN VALVE		
○ FH	FIRE HYDRANT		
☀	UTILITY POLE /STREET LIGHT		
□ / ▨	INLET		
☀	TREE WITH DBH		
○ LP	LIGHT POLE		
▨	GRASS COVER		

REVISIONS		
ISSUE	DATE	DESCRIPTION

**PROJECT COORDINATOR**  
 Philadelphia Parks & Recreation  
 1515 Arch Street, 10th Floor  
 Philadelphia, PA 19102

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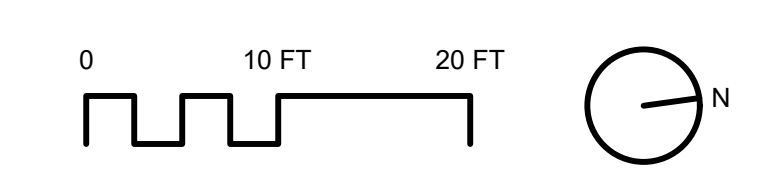
**CITY OF PHILADELPHIA**  
**PHILADELPHIA PARKS & RECREATION**  
 1515 ARCH STREET  
 11TH FLOOR, ONE PARKWAY BUILDING  
 PHILADELPHIA, PENNSYLVANIA

**PROJECT TITLE**  
**East Poplar Playground**

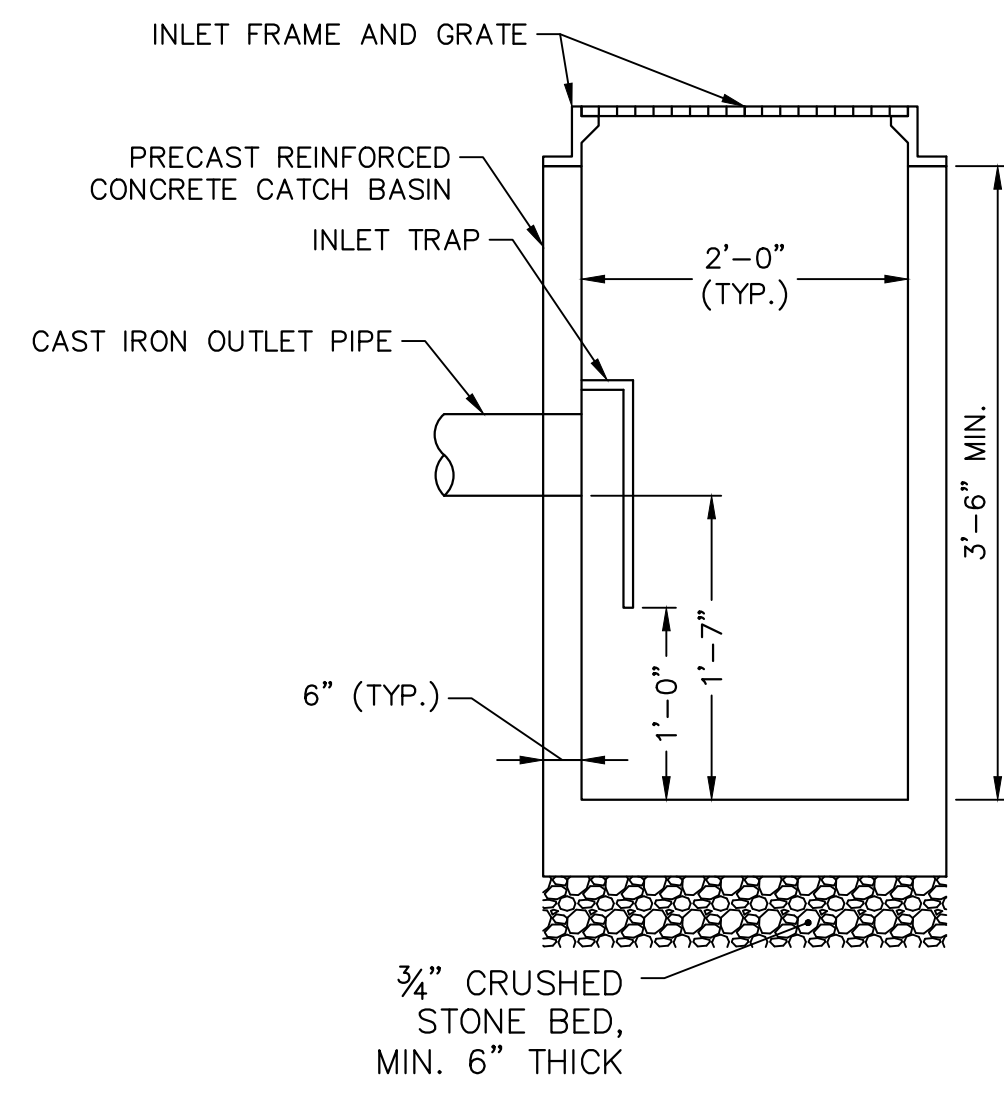
**DRAWING TITLE**  
**Drainage Plan**

PROJECT NO.	DRAWING NO.
DATE: 02.07.2020	<b>D-1</b>
SCALE: 1" = 10'	
DRAWN BY: TV	
CHECKED BY: RB	

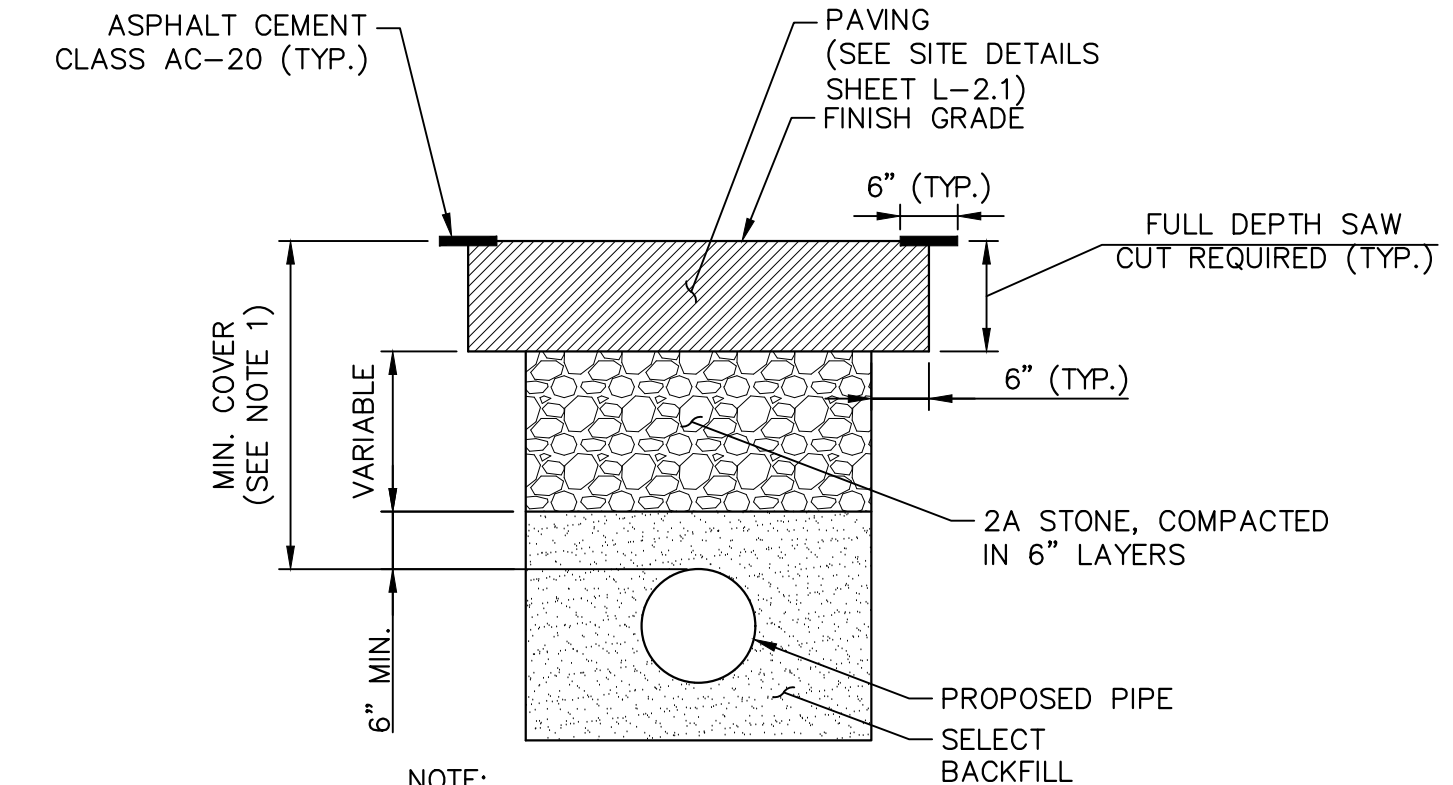
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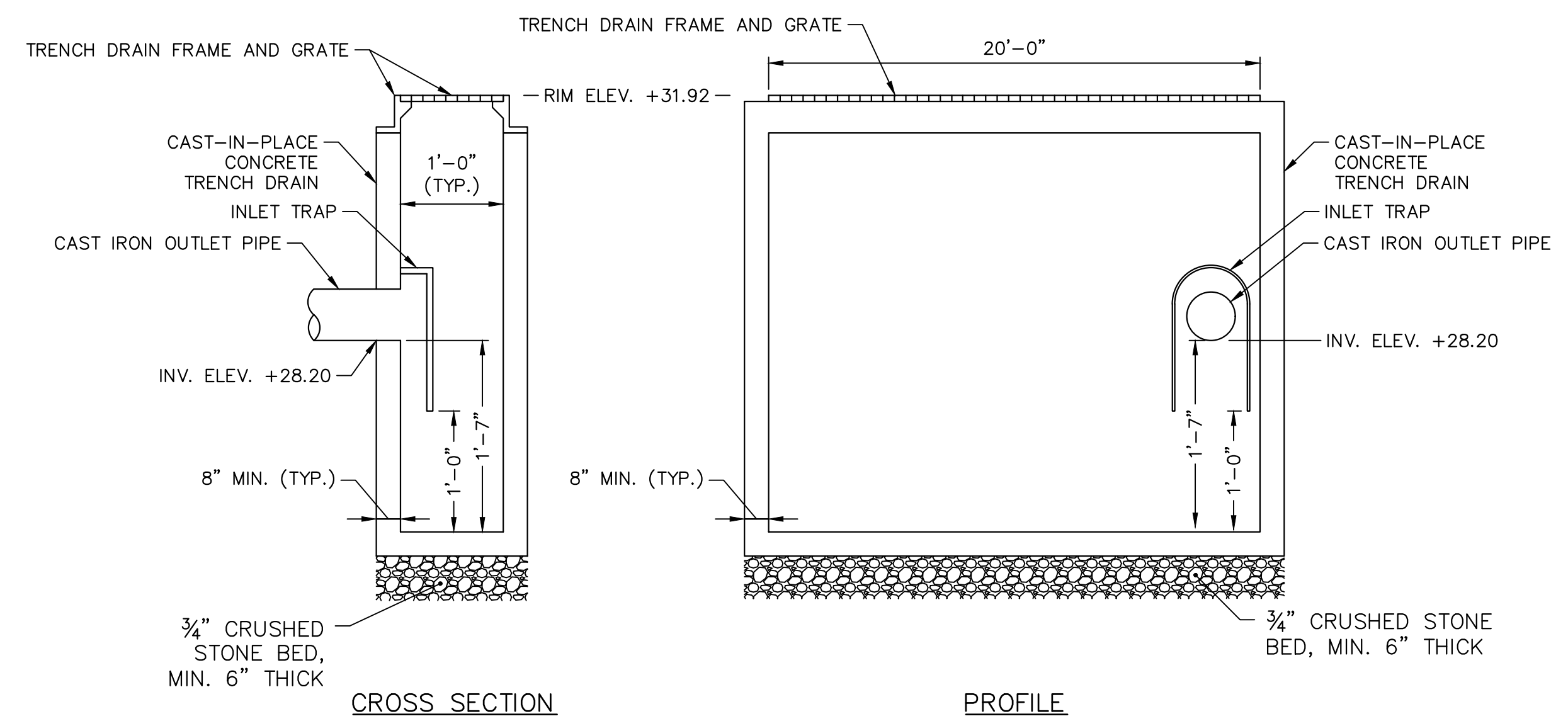


**AREA DRAIN**  
NOT TO SCALE



- NOTE:**
1. MINIMUM COVER: NO STRUCTURE SHALL BE PLACED LESS THAN 24-INCHES BELOW THE CARTWAY OR 15-INCHES BELOW THE FOOTWAY.
  2. REPLACE ALL DISTURBED PAVEMENT MARKINGS WITH THERMOPLASTIC TAPE.
  3. PAVEMENT MARKINGS MUST BE RESTORED WITHIN 7 DAYS OF TRENCH RESTORATION.
  4. ALL RESTORATION TO BE IN ACCORDANCE WITH THE LATEST STREETS DEPARTMENT STANDARDS.

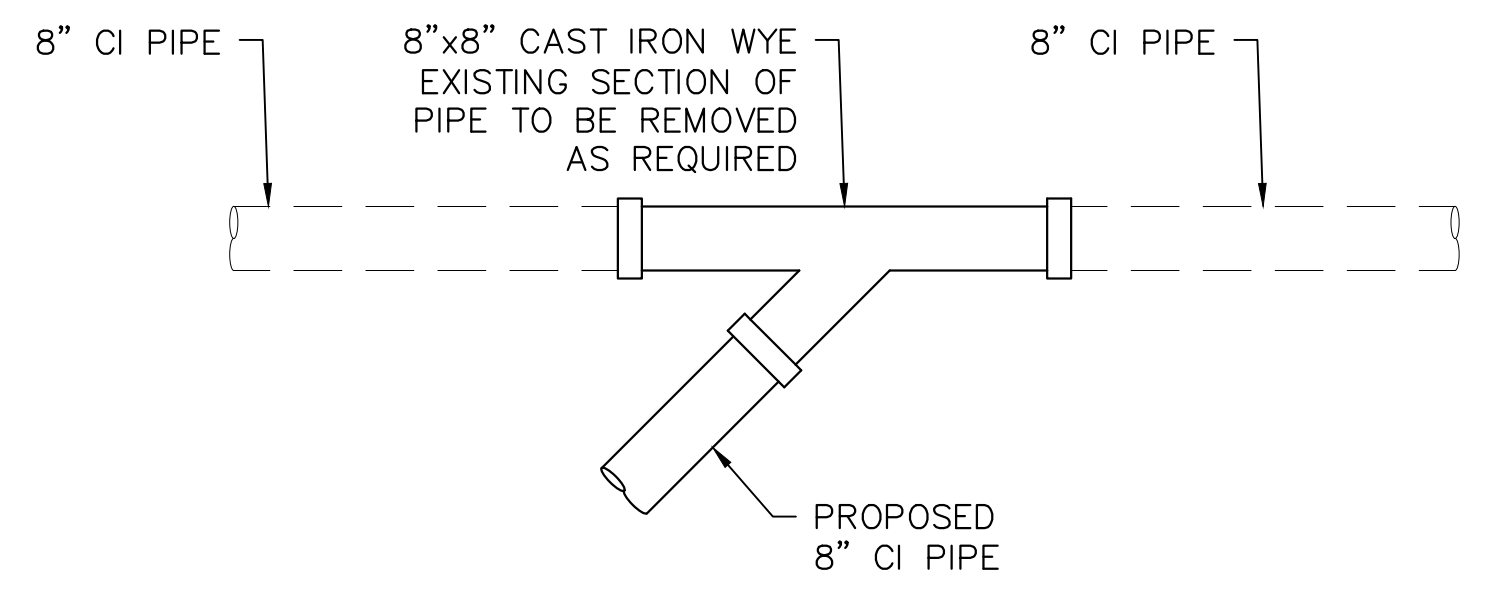
**PERMANENT TRENCH RESTORATION**  
NOT TO SCALE



**CROSS SECTION**

**PROFILE**

**TRENCH DRAIN**  
NOT TO SCALE



**CAST IRON WYE BRANCH**  
NOT TO SCALE

REVISIONS		
ISSUE	DATE	DESCRIPTION



**PROJECT COORDINATOR**  
Philadelphia Parks & Recreation  
1515 Arch Street, 10th Floor  
Philadelphia, PA 19102

SEAL

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1515 ARCH STREET  
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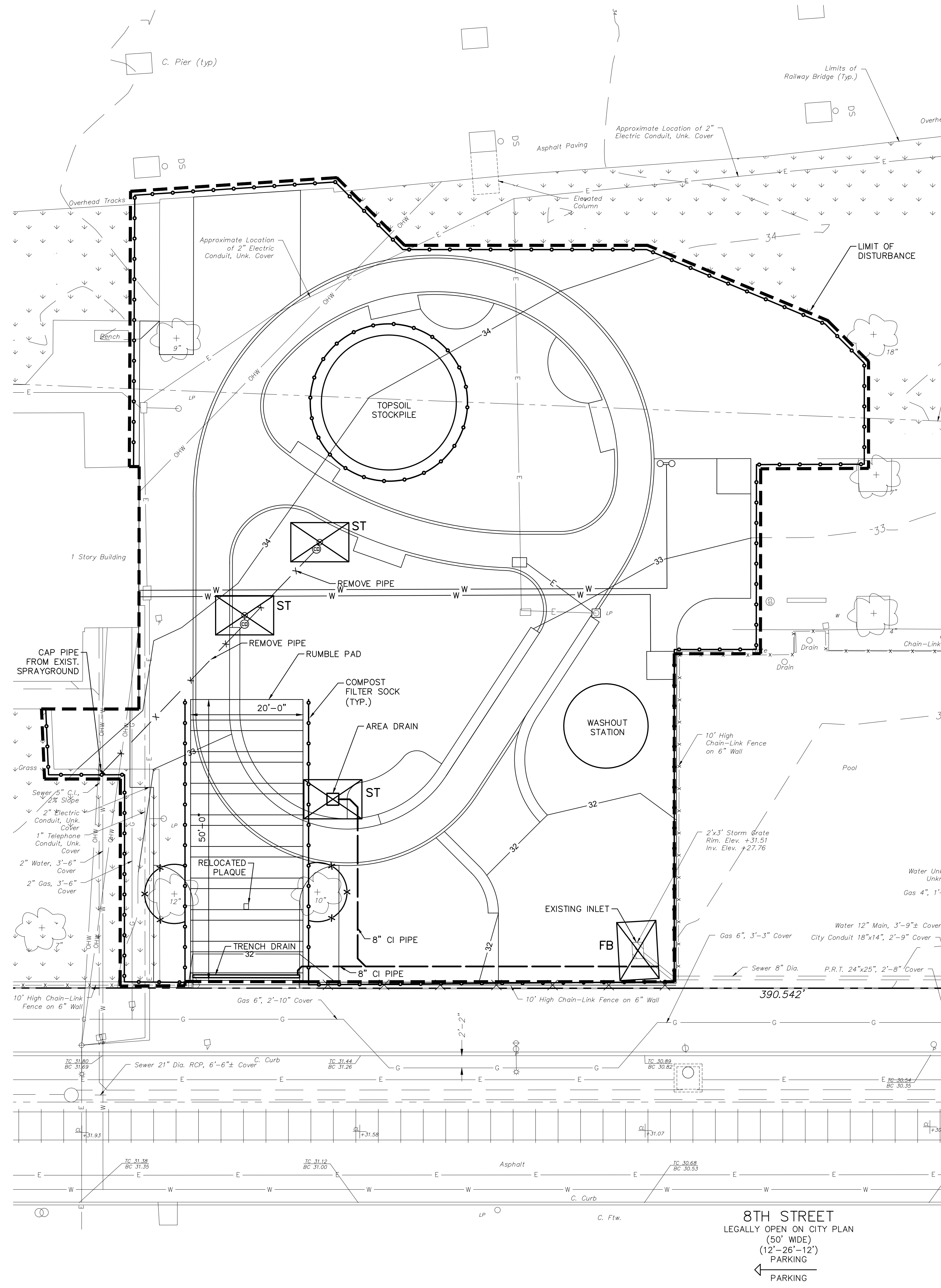
**PROJECT TITLE**  
East Poplar Playground

**DRAWING TITLE**  
Drainage Details

PROJECT NO.	DRAWING NO.
DATE: 02.07.2020	<b>D-2</b>
SCALE: 1" = 10'	
DRAWN BY: TV	
CHECKED BY: RB	

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





**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

**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.

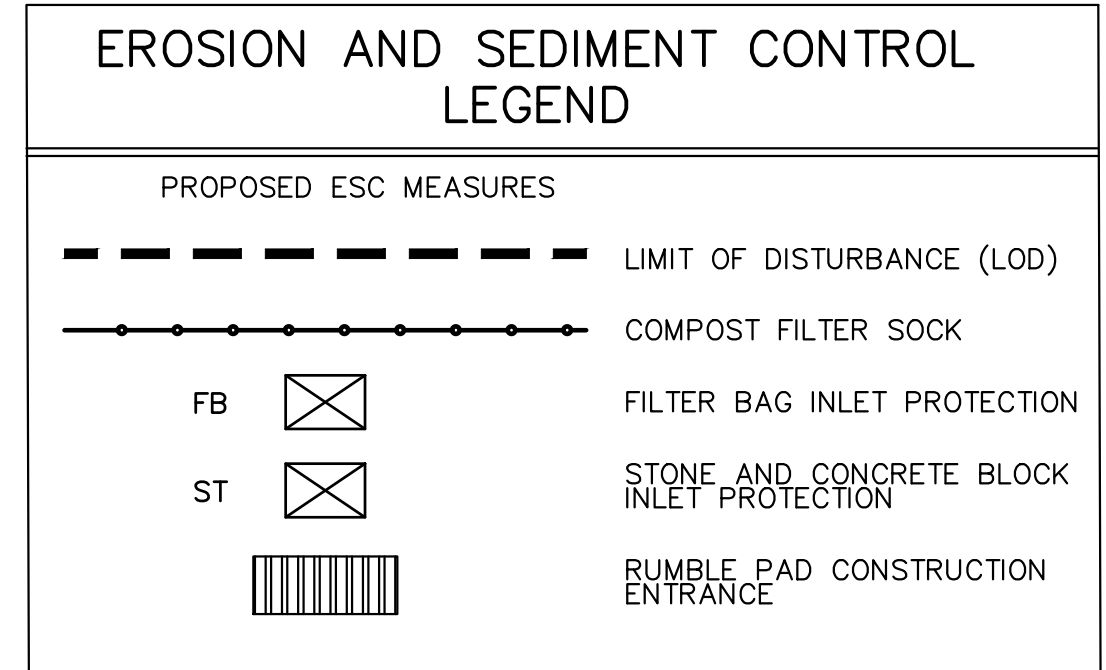
PENNSYLVANIA ONE CALL: 1-800-242-1776

<b>PHILADELPHIA WATER DEPARTMENT</b> 1101 MARKET STREET, 2ND FLOOR PHILADELPHIA, PENNSYLVANIA 19107 (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
<b>PECO-CONSTRUCTION DEPARTMENT</b> 2301 MARKET STREET PHILADELPHIA, PENNSYLVANIA 19103 (215) 731-3264	

**SITE DISTURBANCE SUMMARY**

LOD ON SITE	14,908 S.F.	0.34 ACRES
LOD WITHIN PUBLIC R.O.W.	0 S.F.	0.00 ACRES
<b>TOTAL:</b>	<b>14,908 S.F.</b>	<b>0.34 ACRES</b>

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"



- NOTES:**
- EXISTING CONCRETE AND BITUMINOUS PAVING TO BE SAW-CUT ALONG LIMIT OF DISTURBANCE LINE WITH A CLEAN CUT LINE TO A SUFFICIENT DEPTH TO ALLOW THE REMOVAL OF PAVING WITHOUT DISTURBING THE EXISTING PAVING THAT IS TO REMAIN.
  - ALL EXISTING FILL TO BE REMOVED FROM SITE IN ACCORDANCE WITH THE PA DEP MANAGEMENT OF FILL POLICY AND REGULATIONS.
  - COMPOST FILTER SOCK ON PAVING TO BE WEIGHTED DOWN BY OBJECTS OF CONSIDERABLE MASS (SAND BAGS, CONCRETE BLOCK OR OTHER SUITABLE MATERIAL).
  - INLET PROTECTION IN ROADWAYS NOT TO INCLUDE STONE OR BERMS FOR ROADWAY MAINTENANCE PURPOSES.
  - MAXIMUM HEIGHT FOR STOCKPILE AREAS TO BE 20 FEET. THE MAXIMUM SIDE SLOPE FOR STOCKPILE AREAS NOT TO EXCEED 2:1.
  - CONSTRUCTION, DEMOLITION AND EARTHWORK DUST CONTROL TO BE COMPLETED IN ACCORDANCE WITH THE CITY OF PHILADELPHIA DUST CONTROL REQUIREMENTS (AIR MANAGEMENT REGULATION (AMR) II. SECTION IX.) AND TO INCLUDE BUT NOT LIMITED TO:
    - NOTIFY OCCUPANTS OF NEARBY PROPERTIES, IN WRITING 10 DAYS BEFORE ENGAGING IN EARTHWORK, CONSTRUCTION AND DEMOLITION ACTIVITIES.
    - USE OF VACUUM OR SIMILAR SUCTION SYSTEMS TO CAPTURE DUST KICKED UP BY POWER TOOLS WHEN GRINDING OR CUTTING.
    - APPLICATION OF WATER OR APPROVED DUST CONTROL SUPPRESSANT DURING EXCAVATION, DEMOLITION AND/OR CONSTRUCTION TO SUPPRESS DUST FORMATION.
    - COVERING AND WETTING OF STOCKPILES OF EARTH, SAND, GRAVEL AND OTHER SIMILAR CONSTRUCTION MATERIALS.
    - ALL PERIMETER FENCING MUST HAVE DUST CONTROL FABRIC AND MUST MEASURE A MINIMUM OF 5 FEET IN HEIGHT FROM THE BOTTOM OF FENCING.
    - 10 MILE PER HOUR SPEED LIMIT FOR ALL EQUIPMENT AND TRUCKS TRAVELING WITHIN THE WORK SITE.
    - WETTING AND SWEEPING OF ROADWAYS / ACCESS ROAD IN A WORK SITE TO PREVENT DUST FORMATION.

**REVISIONS**

ISSUE	DATE	DESCRIPTION

**PROJECT COORDINATOR**  
Philadelphia Parks & Recreation  
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Philadelphia, PA 19102

**SEAL**

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**PROJECT TITLE**  
**East Poplar Playground**

**DRAWING TITLE**  
**Erosion & Sediment Pollution Control Plan**

**PROPERTY ADDRESS:**  
800 N. 8TH STREET  
PHILADELPHIA, PA 19123-2000  
OPA/BRT #: 781561500

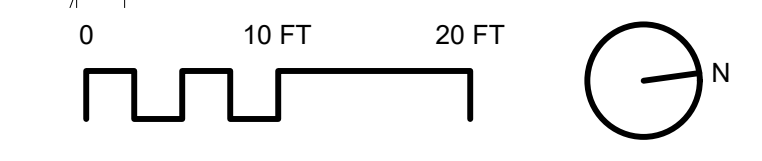
**OWNER:**  
CITY OF PHILADELPHIA  
EAST POPLAR PLAYGROUND  
DEPARTMENT OF RECREATION  
ROOM 625  
1600 ARCH STREET  
PHILADELPHIA, PA 19103-2003

<b>PROJECT NO.</b>	<b>DRAWING NO.</b>
	<b>ES-1</b>

DATE: 02.07.2020  
SCALE: 1"=10'  
DRAWN BY: TV  
CHECKED BY: RB  
FILE: 

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

**8TH STREET**  
LEGALLY OPEN ON CITY PLAN  
(50' WIDE)  
(12'-26'-12")  
PARKING





**TABLE 4.1**  
Compost Sock Fabric Minimum Specifications

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" 32"	12" 18" 24" 32"	12" 18" 24" 32"	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

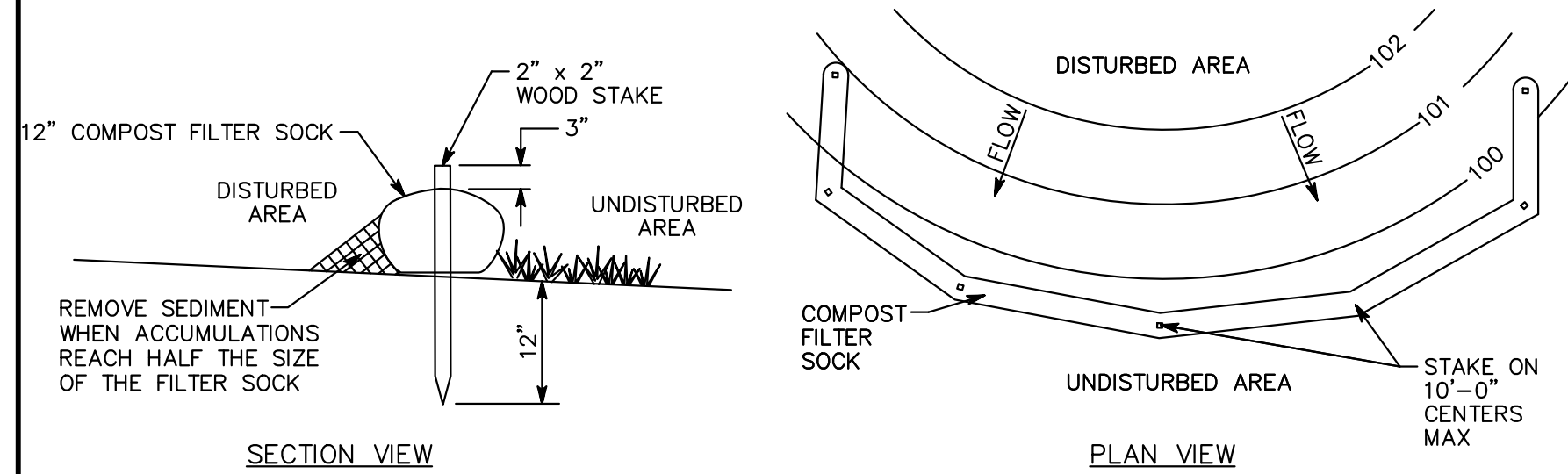
Two-ply systems

Inner Containment Netting	HDPE biaxial net
	Continuously wound
Outer Filtration Mesh	Fusion-welded junctures
	3/4" x 3/4" Max. aperture size
	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.

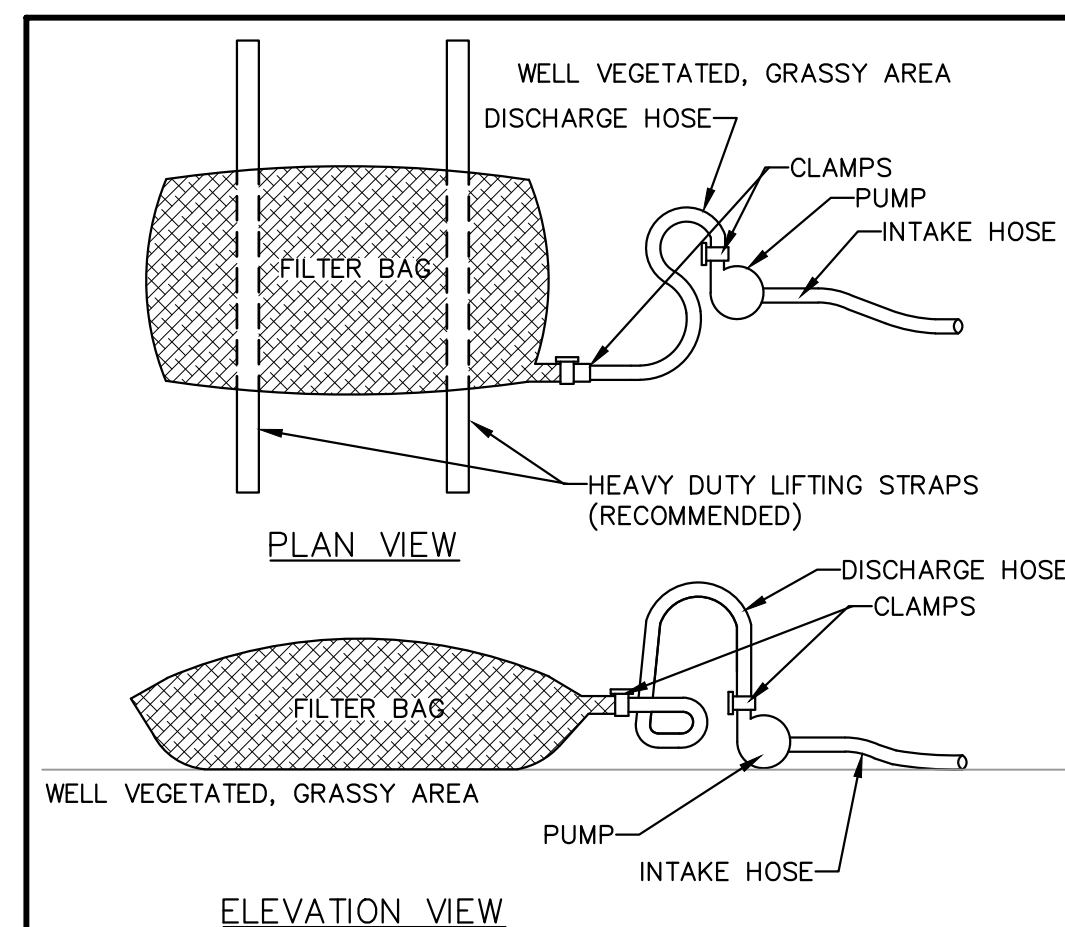
**TABLE 4.2**  
Compost Standards

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 (meq/liter) Maximum

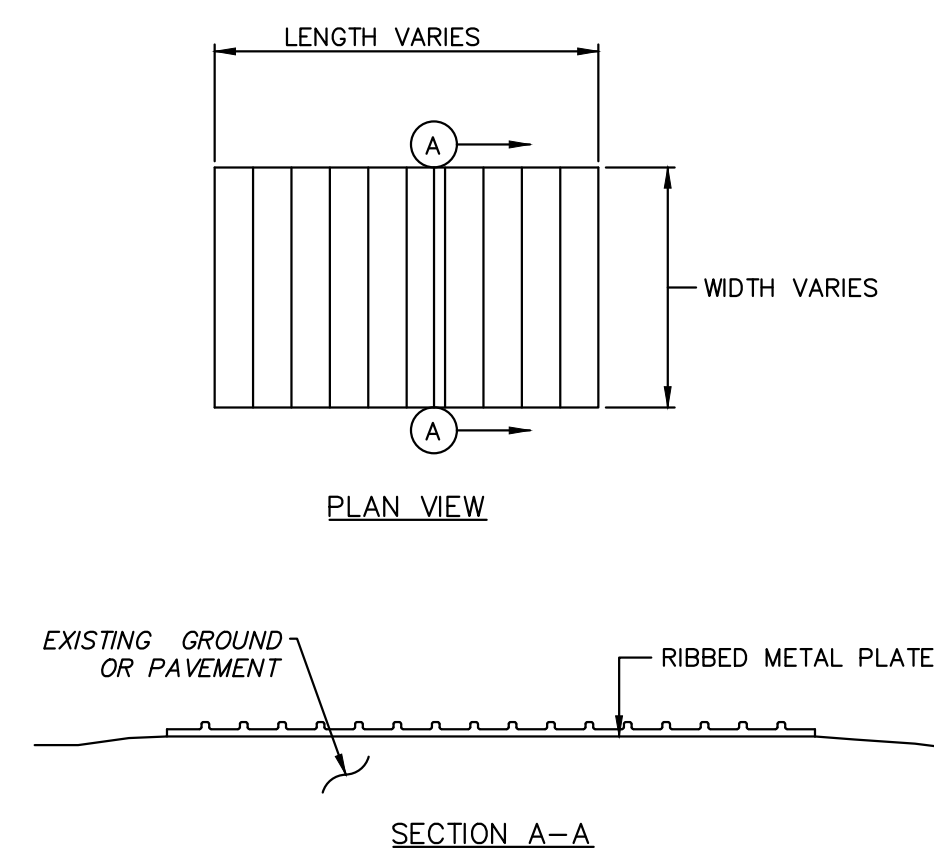


- SECTION VIEW**
- REMOVE DEPOSITS WHEN SEDIMENT ACCUMULATION IS ONE HALF THE HEIGHT OF THE EXPOSED COMPOST FILTER SOCK.
  - PLACE COMPOST FILTER SOCK ON LEVEL GRADE. EXTEND BOTH ENDS OF THE COMPOST FILTER SOCK AT LEAST 8'-0" UPSLOPE AT 45 DEGREES TO THE MAIN ALIGNMENT.
  - REPLACE BIODEGRADABLE FILTER 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.

COMPOST FILTER SOCK, 12" DIAMETER

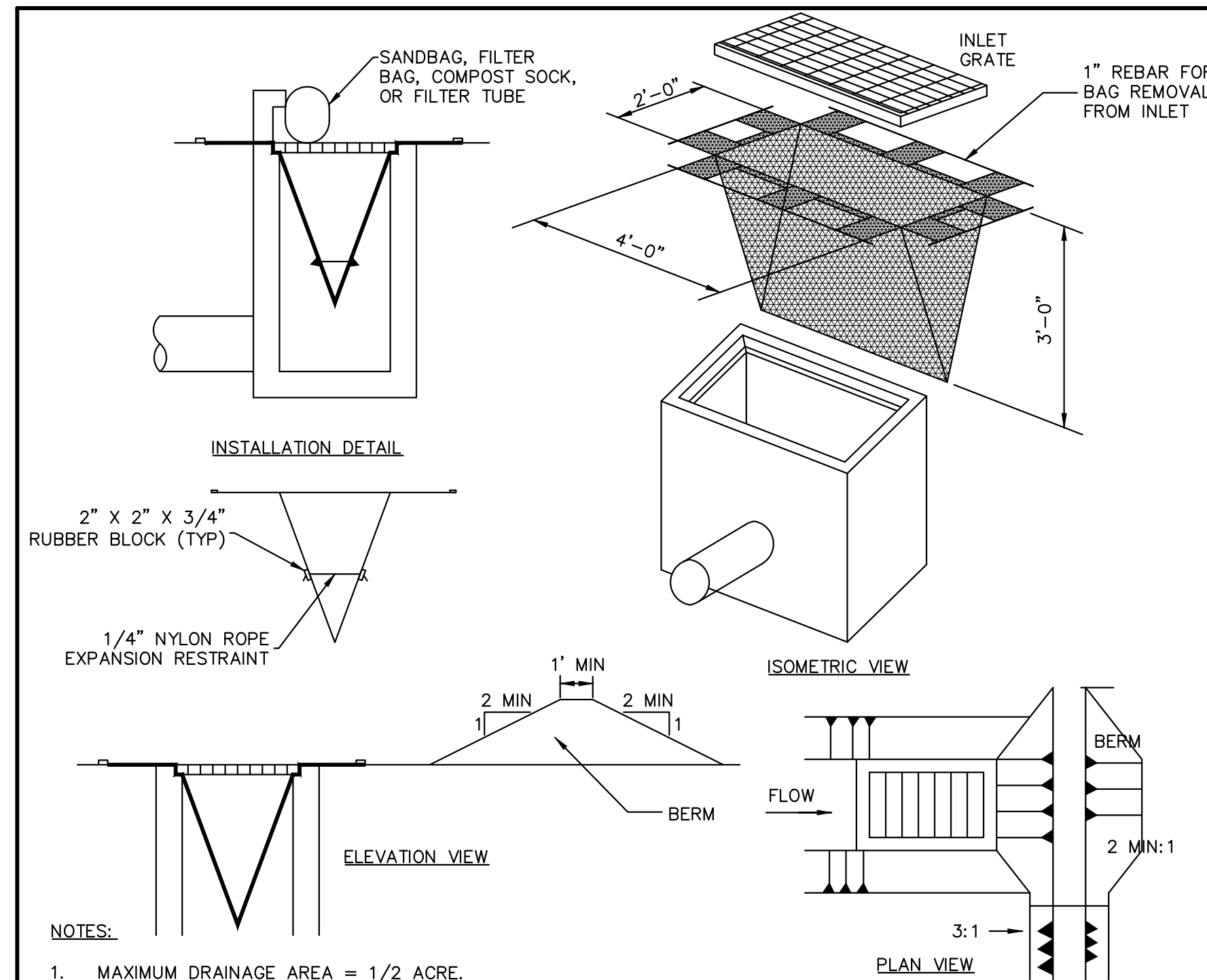


PUMPED WATER FILTER BAG



- NOTES:**
- PRE-CONSTRUCTED RUMBLE PADS ARE TO BE USED IN LIEU OF ROCK CONSTRUCTION ENTRANCE. RUMBLE PAD SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND A SUFFICIENT NUMBER OF PADS SHALL BE INSTALLED TO PROVIDE FOR A MINIMUM OF FOUR (4) TIRE REVOLUTIONS WHILE ON THE PAD. MORE PADS MAY BE NEEDED DEPENDING ON SITE CONDITIONS. ACCUMULATED MATERIALS SHOULD BE CLEANED FROM THE PADS DAILY (MORE OFTEN IF NECESSARY) AND DISPOSED IN THE MANNER SPECIFIED BY THE PLAN.

RUMBLE PAD  
(CONSTRUCTION ENTRANCE)



- 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

**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.

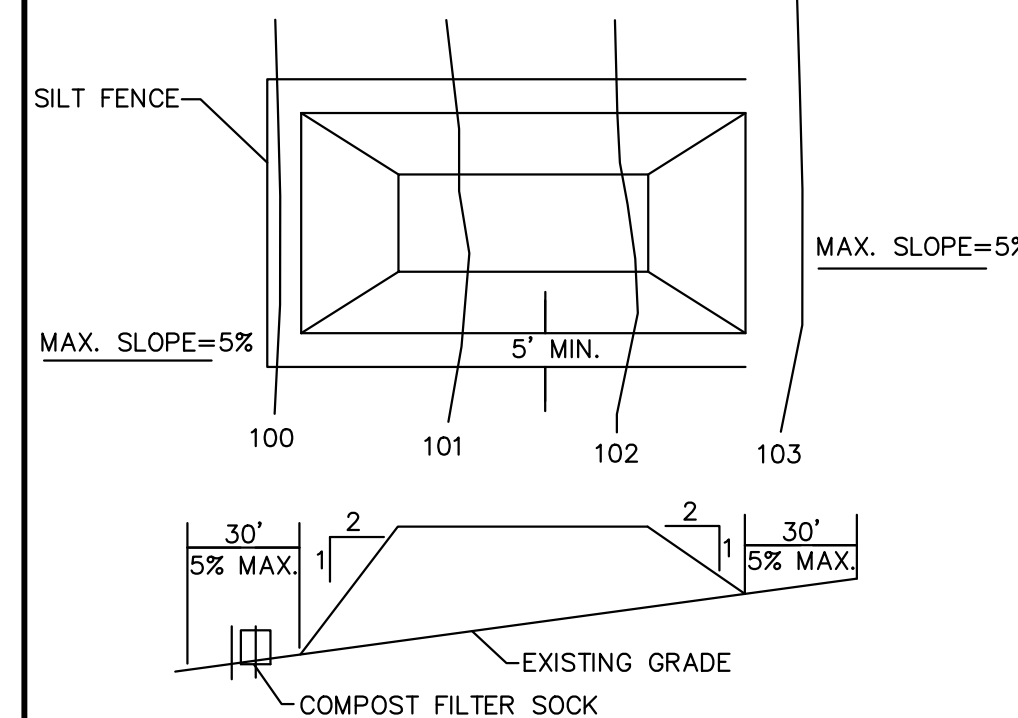
Topsoil should be uniformly distributed across the disturbed area to a depth of 4 to 8 inches minimum — 2 inches on fill outcrops. Spreading should be done in such a manner that sodding or seeding can proceed with a minimum of additional preparation or tillage. Irregularities in the surface resulting 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.

**TABLE 11.1**  
Cubic Yards of Topsoil Required for Application to Various Depths

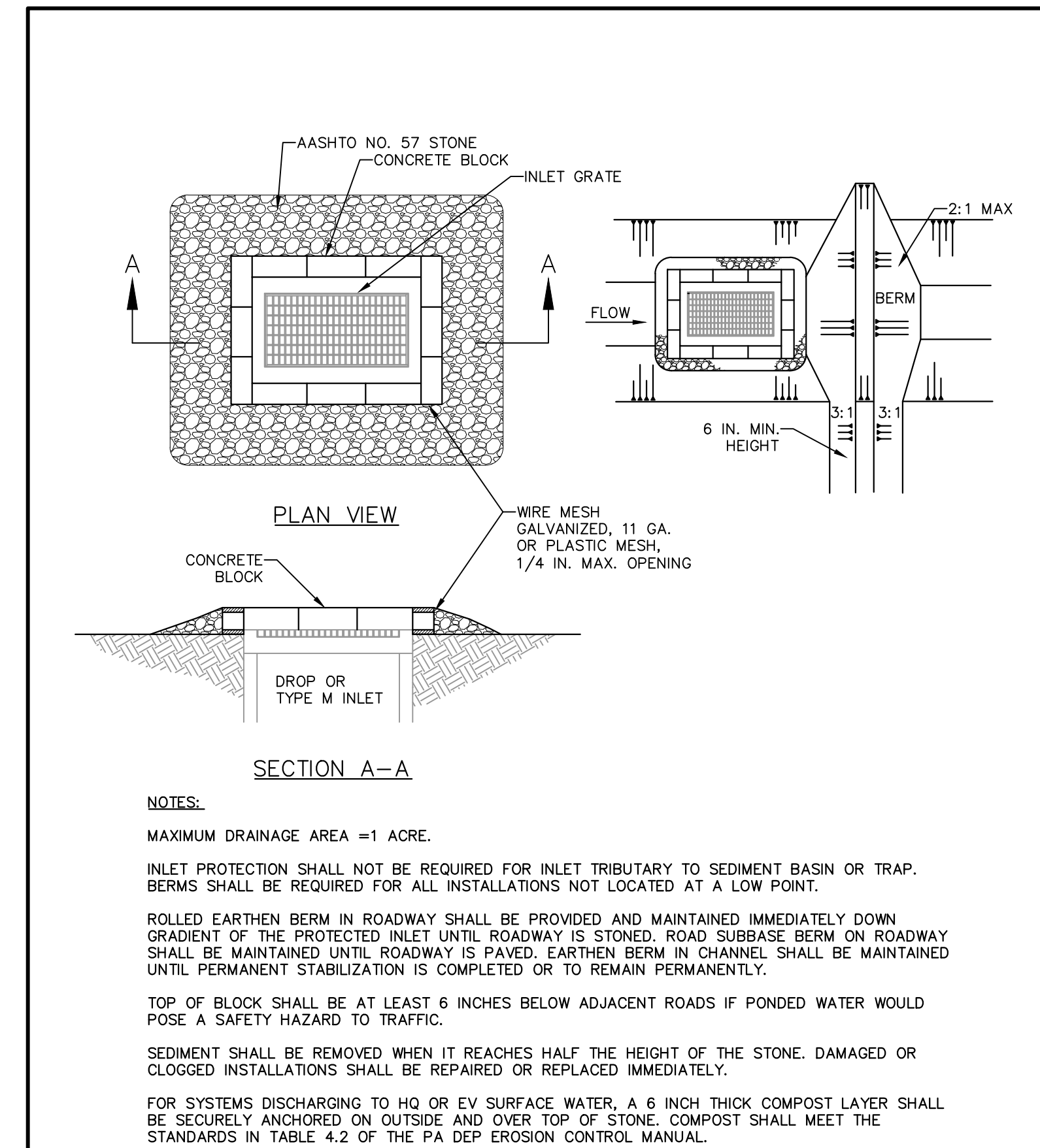
Depth (in)	Per 1,000 Square Feet	Per Acre
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806
7	21.7	940
8	24.8	1,074

Adapted from VA DSWC



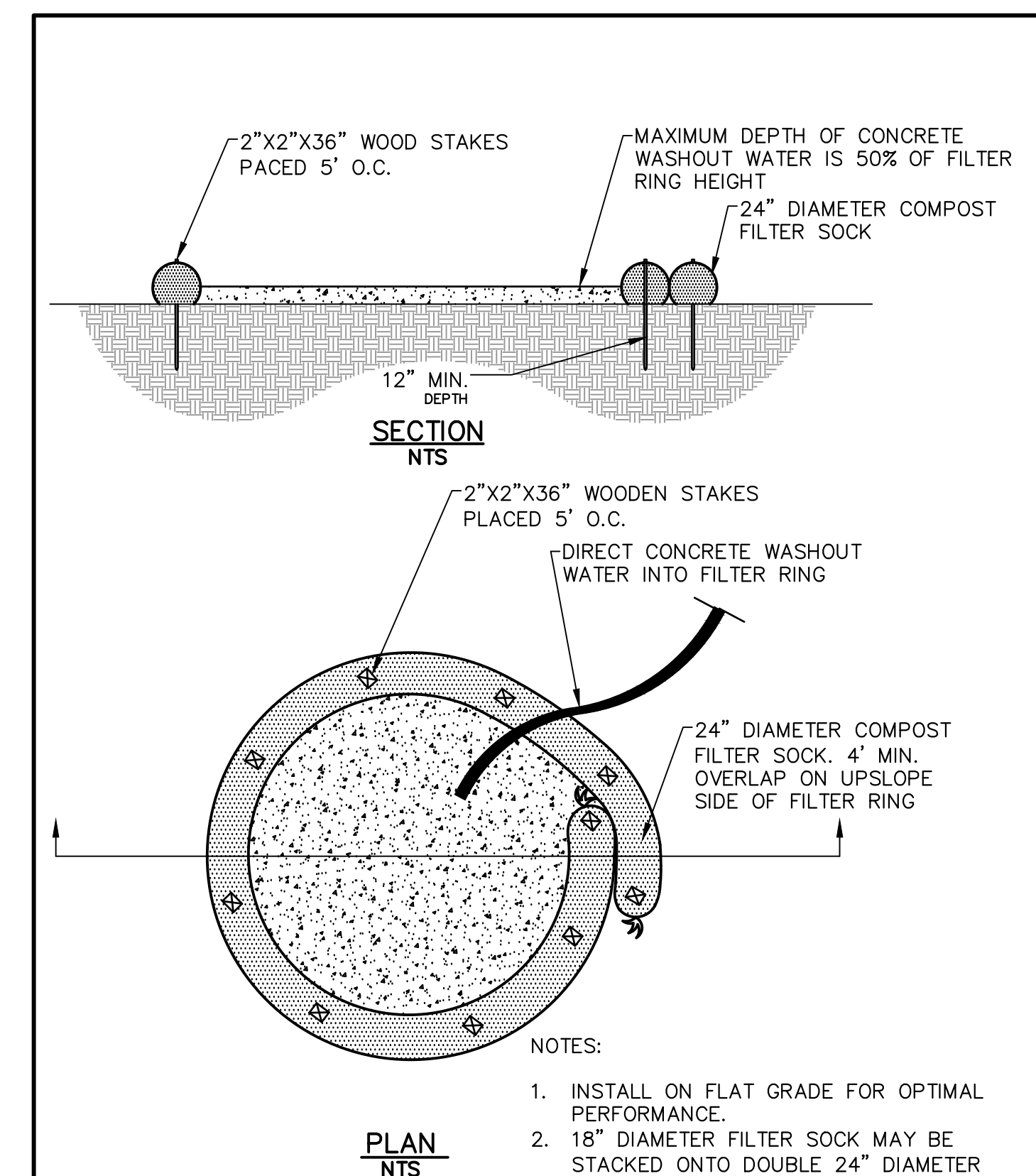
- NOTES:**
- PLACE STOCKPILES AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
  - ALL SIDE SLOPES SHALL BE 2 TO 1 OR FLATTER.
  - STOCKPILE SHALL RECEIVE A VEGETATIVE COVER IN ACCORDANCE WITH MINIMUM STABILIZATION REQUIRED.
  - SILT FENCE SHALL BE INSTALLED AS DETAILED HEREON.
 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

TEMPORARY STOCKPILE  
PROTECTION



- NOTES:**
- MAXIMUM DRAINAGE AREA = 1 ACRE.
  - INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS NOT LOCATED AT A LOW POINT.
  - ROLLED EARTHEN BERM IN ROADWAY SHALL BE PROVIDED AND MAINTAINED IMMEDIATELY DOWN GRADIENT OF THE PROTECTED INLET 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.
  - TOP OF BLOCK SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDING WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
  - SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
  - FOR SYSTEMS DISCHARGING TO HQ OR EV SURFACE WATER, A 6 INCH THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE. COMPOST SHALL MEET THE STANDARDS IN TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

STONE AND CONCRETE BLOCK INLET PROTECTION



- NOTES:**
- INSTALL ON FLAT GRADE FOR OPTIMAL PERFORMANCE.
  - 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.

COMPOST SOCK WASHOUT STATION

**REVISIONS**

ISSUE	DATE	DESCRIPTION

**PROJECT COORDINATOR**  
Philadelphia Parks & Recreation  
1515 Arch Street, 10th Floor  
Philadelphia, PA 19102

**PROJECT TEAM**  
Landscape Architect:  
**Ground Reconsidered**  
230 South Broad Street, Suite 604  
Philadelphia, PA 19102  
215.790.0727 | www.groundreconsidered.com

Civil and Structural Engineer:  
KS Engineers, P.C.  
35 S 3rd St.  
Philadelphia, PA 19106  
215.925.0425 | http://www.kseng.com/

Plumbing, Electrical and Mechanical Engineer:  
Arora Engineers, LLC  
1600 Market St Suite 1630  
Philadelphia, PA 19103  
620.459.7900 | www.aroraengineers.com/

**CITY OF PHILADELPHIA**  
PHILADELPHIA PARKS & RECREATION  
1515 ARCH STREET  
11TH FLOOR, ONE PARKWAY BUILDING  
PHILADELPHIA, PENNSYLVANIA

**PROJECT TITLE**  
East Poplar Playground

**DRAWING TITLE**  
Erosion & Sediment  
Pollution Control Details

<b>PROJECT NO.</b>	<b>DRAWING NO.</b>
	ES-2

**DATE:** 02.07.2020  
**SCALE:** 1" = 10'  
**DRAWN BY:** TV  
**CHECKED BY:** RB  
**FILE:**

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



**STANDARD EROSION AND SEDIMENT CONTROL NOTES:**

- AN INDUSTRIAL WASTE PERMIT WILL BE REQUIRED SHOULD PUMPING TO CITY-OWNED INFRASTRUCTURE BECOME NECESSARY DURING CONSTRUCTION. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- INLET PROTECTION SHOULD BE PROVIDED FOR ALL INLETS OWNED BY PWD THAT ARE LOCATED WITHIN ONE BLOCK OF THE PROJECT SITE.
- PWD IS NOT RESPONSIBLE FOR ANY CLEANING OR REPAIRS NEEDED ON CITY-OWNED INFRASTRUCTURE DUE TO FAILURE OF ANY EROSION AND SEDIMENT CONTROL PRACTICES. CONTRACTOR IS RESPONSIBLE TO CLEAN OR REPAIR CITY-OWNED INFRASTRUCTURE DUE TO FAILURE OF ANY EROSION AND SEDIMENT CONTROL PRACTICES.
- INSPECTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL OCCUR ON A WEEKLY BASIS, BEFORE ANY ANTICIPATED PRECIPITATION EVENTS, AND AFTER ALL PRECIPITATION EVENTS.
- THE MAXIMUM HEIGHT FOR STOCKPILES AREAS SHALL BE 20 FEET. THE MAXIMUM SIDE SLOPE FOR STOCKPILE AREAS SHALL NOT EXCEED 2:1.
- THE ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED ON-SITE. A STOCKPILE SHALL BE MAINTAINED ON-SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- FILTER FABRIC FENCE SHOULD BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION SHOULD BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. SUPPORT STAKES SHALL BE SPACED AT A MAXIMUM OF 8 FEET. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FILTER FENCE.
- ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.
- EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY PWD AND PA DEP.
- UNTIL THE SITE IS STABILIZED, ALL E&S BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL E&S BMPs PRIOR TO ANY ANTICIPATED STORM EVENT, AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED, WILL BE REQUIRED.
- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING, AS WELL AS CUTS AND FILLS, SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. PWD SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. PWD MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST THREE (3) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY PWD AND THE PA DEP PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING, AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO PWD AT THE TIME OF INSPECTION.
- ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE FOLLOWING MANNER: SEDIMENT IS TO BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ANY AND ALL CITY, STATE, AND FEDERAL REGULATIONS.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF THREE TO FIVE INCHES -- SIX TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM FOUR INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF TWO INCHES OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED NINE INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN ONE YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN ONE YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY PWD AND PA DEP.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE E&S BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- ALL WORK ASSOCIATED WITH PWD WATER CONVEYANCE AND SEWER INFRASTRUCTURE SHALL BE DONE IN ACCORDANCE WITH THE CITY OF PHILADELPHIA WATER DEPARTMENT "WATER MAIN STANDARD DETAILS AND CORROSION CONTROL SPECIFICATIONS", 1985 EDITION, AND "STANDARD DETAILS AND STANDARD SPECIFICATIONS FOR SEWERS", 1985 EDITION.
- CONTACT PWD WATER TRANSPORT RECORDS (1101 MARKET STREET, 2ND FLOOR, PHONE: 215-685-6271) FOR ADDITIONAL APPROVALS AND PERMITS REQUIRED FOR ALL WATER SERVICES, METERS, AND CONNECTIONS TO THE EXISTING AND/OR PROPOSED PWD FACILITIES.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE PADEP'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

**SITE STABILIZATION METHODS (TEMPORARY & PERMANENT STABILIZATION)**

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

**TEMPORARY SEEDING**

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

**TEMPORARY MULCHING**

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

**PERMANENT SEEDING**

- PERMANENT SEEDING SHALL OCCUR IMMEDIATELY AFTER THE FINAL GRADING IS COMPLETED. THE FOLLOWING SEED SHALL BE PLACED UNLESS OTHERWISE SPECIFIED ON THE PLANS OR DIRECTED IN THE FIELD. THE FOLLOWING SEED MIX SHALL BE USED:
  - 40% PENNLAWN FINE FESCUE
  - 3% RED TOP
  - 20% CHAMPION PERENNIAL RYE GRASS QUANTITIES ARE OF PURE LIVE SEED (P.L.S.) SPREAD AT A RATE OF 63 LBS. PER ACRE.
- REMOVE ALL DEBRIS, INCLUDING LARGE STONES. TILL SOIL TO A DEPTH OF FOUR INCHES TO SIX INCHES. APPLY LIME AT A RATE OF 4 TONS PER ACRE. APPLY COMMERCIAL 10-20-20 FERTILIZER AT A RATE OF 930 LBS. PER ACRE. WORK FERTILIZER INTO TOP INCH OF SOIL.
- SEED ONLY AT THE FOLLOWING TIMES:
  - SPRING: MARCH 1 TO APRIL 30
  - LATE SUMMER/EARLY FALL: AUGUST 15 TO NOVEMBER 15
- DIVIDE SEED INTO TWO EQUAL LOTS. SOW ONE LOT IN ONE DIRECTION. SOW SECOND LOT AT RIGHT ANGLE TO FIRST LOT. RAKE SEEDED AREA SLIGHTLY. ROLL SURFACE LIGHTLY TO FIRM SOIL AROUND SEED.
- MULCH SEEDED AREAS WITH STRAW OR HAY AT THE RATE OF 3 TONS PER ACRE. ANCHOR MULCH. COMPLY WITH THE REQUIREMENTS OF SECTION 805 -- MULCHING, PENNDOT PUBLICATION 408. ANCHOR MULCH AS SPECIFIED.

**MAINTENANCE PROGRAM**

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

**CONSTRUCTION SEQUENCE:**

- AT LEAST SEVEN (7) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) MUST BE CALLED TO SCHEDULE A PRECONSTRUCTION MEETING. THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN EARTH MOVING ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE CITY OFFICIALS, THE EROSION AND SEDIMENT CONTROL PREPARER, AND REPRESENTATIVE OF THE CITY OF PHILADELPHIA EROSION AND SEDIMENT CONTROL OFFICE TO AN ON-SITE MEETING.
- AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITY LOCATIONS.
- CONSTRUCTION FENCE TO BE INSTALLED AT THE DISCRETION OF THE SITE CONTRACTOR/CONSTRUCTION MANAGER. CONSTRUCTION FENCE LOCATION SHALL BE INSTALLED TO PROTECT THE PUBLIC FROM LAND DISTURBANCE ACTIVITIES AND TO MAINTAIN PEDESTRIAN ACCESS.
- INSTALL COMPOST FILTER SOCK DOWNHILL FROM ALL EARTH MOVING ACTIVITIES. ALTHOUGH OFF-SITE AREAS ARE PAVED, COMPOST FILTER SOCK OR OTHER EROSION CONTROL PRACTICES SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE AS SHOWN ON THE PLAN.
- INSTALL INLET PROTECTION AS SHOWN ON THE PLAN. EXISTING INLETS SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE CONSTRUCTION.
- PLACE TREE PROTECTION FENCE AROUND TREES WITHIN THE LIMIT OF DISTURBANCE THAT ARE TO REMAIN AS SHOWN ON THE PLANS.
- INSTALL RUMBLE PAD AS SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE DETAIL.
- CLEAR AND GRUB THE SITE, DEMOLISH EXISTING PAVING, CURBING, AND FENCING AS REQUIRED. REMOVE TREES AND STUMPS MARKED FOR REMOVAL TO BELOW EXISTING GRADE. EXCAVATE TRENCHES FOR PROPOSED PIPE CONNECTIONS. DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISCARDED IN ACCORDANCE WITH APPLICABLE CITY, STATE AND FEDERAL REGULATIONS.
- REMOVE DRAINS, CLEANOUTS, AND PIPE FOR EXISTING SPRAYGROUND AS SHOWN ON THE PLAN. CAP THE PIPE AT THE DOWNSTREAM CONNECTION TO THE SEWER LATERAL AS SHOWN ON THE PLAN.
- INSTALL PROPOSED INLETS/AREA DRAINS AND STORM SEWERS AS SHOWN ON THE PLAN. PLACE INLET PROTECTION AS THE INLETS/AREA DRAINS BECOME FUNCTIONAL.
- INSTALL WATER SUPPLY LINE FOR PROPOSED SPRAYGROUND AS SHOWN ON THE PLANS.
- INSTALL LIGHT POLES AS SHOWN ON THE PLANS. INSTALL ELECTRICAL CONDUIT NECESSARY FOR PROPOSED LIGHTING FIXTURES AS SHOWN ON THE PLANS.
- CONSTRUCT PROPOSED CURBS AND WALLS AS SHOWN ON THE PLANS.
- INSTALL FOOTINGS AND FOUNDATIONS FOR PLAYGROUND, SPRAYGROUND, AND EXERCISE EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- ROUGH GRADE SUBBASE TO REQUIRED DEPTHS FOR PROPOSED SURFACE TREATMENTS.
- AS SOON AS SLOPES, CHANNELS, DITCHES, AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED. CESSATION OF ACTIVITY FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.
- CONSTRUCT ASPHALT PAVEMENT, CONCRETE PAVEMENT, AND BONDED RUBBER SAFETY SURFACE.
- INSTALL SITE FURNISHINGS.
- INSTALL TOPSOIL IN GRASS AND PLANTING AREAS AS SHOWN ON THE PLANS. SEED GRASS COVER AREAS AND PLACE STRAW, AS APPLICABLE. INSTALL PLANTINGS IN ACCORDANCE WITH THE PLAN AND PLACE MULCH, AS APPLICABLE.
- SWEEP PAVED AREAS TO PREVENT TRACKING OF SOIL OFF-SITE.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) FOR A FINAL INSPECTION PRIOR TO REMOVAL OF THE E&S BMPs.
- REMOVE SOIL EROSION MEASURES AFTER SITE HAS BEEN INSPECTED AND STABILIZED.

REVISIONS		
ISSUE	DATE	DESCRIPTION
		
<b>PROJECT COORDINATOR</b> Philadelphia Parks & Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102		
SEAL		
<b>PROJECT TEAM</b> Landscape Architect: <b>Ground Reconsidered</b> 230 South Broad Street, Suite 604 Philadelphia, PA 19102 215.790.0727   www.groundreconsidered.com  Civil and Structural Engineer: KS Engineers, P.C. 35 S 3rd St. Philadelphia, PA 19106 215.925.0425   http://www.kseng.com/  Plumbing, Electrical and Mechanical Engineer: Arora Engineers, LLC 1600 Market St Suite 1630, Philadelphia, PA 19103 620.459.7900   www.aroraengineers.com/		
<b>CITY OF PHILADELPHIA</b> <b>PHILADELPHIA PARKS &amp; RECREATION</b> 1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA, PENNSYLVANIA		
<b>PROJECT TITLE</b> East Poplar Playground		
<b>DRAWING TITLE</b> Erosion & Sediment Pollution Control Notes		
PROJECT NO.	DRAWING NO.	
DATE: 02.07.2020	<b>ES-3</b>	
SCALE: 1" = 10'	DRAWN BY: TV	
CHECKED BY: RB	FILE:	
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.		



**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
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C, CND	CONDUIT
C.B.	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING, EQUIPMENT MOUNTED EITHER ON OR IN CEILING AREA
CU	COPPER
(D)	DEMOLITION
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 EQUIPMENT
EMH	ELECTRICAL MANHOLE
EMT	ELECTRICAL METALLIC TUBING
EUH	ELECTRIC UNIT HEATER
FT	FOOT (FEET)
G, GND	GROUND
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER
HZ	HERTZ
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
MOCB	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
(RE)	RELOCATE EXISTING
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RGM	RIGID METAL CONDUIT
RNC	RIGID NON-METALLIC CONDUIT
SCCR	SHORT CIRCUIT CURRENT RATING
SMR	SURFACE METAL RACEWAY
SPECS	SPECIFICATIONS
TBD	TO BE DETERMINED
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP.	TYPICAL
UE	UNDERGROUND ELECTRIC
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VIF	VERIFY IN FIELD
WP	WEATHER PROOF
XFMR	TRANSFORMER

**ELECTRICAL SYMBOLS:**

	DUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V
	DUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V WITH (GFCI) GROUND FAULT CURRENT INTERRUPTER PROTECTION
\$	20A, 120/277 VAC, SINGLE POLE TOGGLE SWITCH
\$ <sub>WP</sub>	WEATHER PROOF SWITCH
	NON-FUSIBLE DISCONNECT SWITCH, SIZE AS NOTED
	COMBINATION MAGNETIC STARTER, SIZE AS REQUIRED BY NEC
	FUSIBLE DISCONNECT SWITCH, SIZE AS NOTED
	JUNCTION BOX
	PANELBOARD
	ELECTRICAL HANDHOLE 18" L x 24" W x 12" D, TIER 15 RATED PRECAST CONCRETE
---	CONDUIT (UNDERGROUND)
-----	DEMOLITION
---	EXISTING/BY OTHERS/FOR REFERENCE ONLY
---	NEW

**GENERAL ELECTRICAL 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 2017) NFPA 70, AND WITH THE REQUIREMENTS/AMENDMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
- 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 INCLUDING RESOLUTION OF FIELD CONFLICTS THAT MAY ARISE.
- EACH FEEDER AND BRANCH CIRCUIT SHALL INCLUDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR. BOND ALL ELECTRICAL EQUIPMENT, OUTLET BOXES, ETC., IN ACCORDANCE WITH NEC ARTICLE 250.
- ALL FEEDERS AND BRANCH CIRCUITS ARE NEW TO BE PROVIDED UNDER THIS CONTRACT UNLESS OTHERWISE NOTED. WIRING SHALL BE INSTALLED IN RNC (PVC SCHEDULE 40) UNLESS OTHERWISE SHOWN.
- ALL NEW 600V OVER-CURRENT PROTECTIVE DEVICES SHALL HAVE INTERRUPTING CAPABILITIES OR RATINGS (AIC OR AIR) IN RMS AMPERES SYMMETRICAL. ALL DEVICES SHALL BE FULLY RATED FOR AVAILABLE FAULT CURRENT.
- ALL WIRE SHALL BE COLOR-CODED, SINGLE CONDUCTOR, COPPER WIRE OF THE SPECIFIED SIZE, 600V, TYPE USE, XLP INSULATION, #12 AWG MINIMUM.
- THE CONTRACTOR SHALL PERFORM THE WORK AS INDICATED ON THE DRAWINGS. ANY DEVIATIONS FROM THE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL IN WRITING. IF CHANGES ARE MADE WITHOUT THE ENGINEER'S WRITTEN CONSENT, THE CONTRACTOR SHALL BE LIABLE FOR ANY ISSUES THAT MAY ARISE DUE TO THE CHANGES.
- UNLESS OTHERWISE NOTED, ALL WIRE SIZES SHALL BE BASED ON THE FOLLOWING:
  - #12 THROUGH #1 OR 100A OR LESS - TABLE 310.16 60° COLUMN
  - #1/0 AND GREATER OR 101A OR GREATER - TABLE 310.16 75° COLUMN
  - OTHER ALLOWANCES OF 110.14(C)
- UNLESS OTHERWISE NOTED, ALL CONDUIT SIZES SHALL BE BASED ON RNC (PVC SCHEDULE 40).
- ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE NEW, LABELED AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY OR AGENCY (E.G. UL), UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF ALL EQUIPMENT IF NOT INDICATED ON DRAWINGS. IF THERE IS A DISCREPANCY, MANUFACTURER'S INSTRUCTIONS TAKE PRECEDENCE.
- THE EC SHALL FURNISH ALL EQUIPMENT, LABOR, SERVICES, AND MATERIALS REQUIRED FOR COMPLETE INSTALLATION OF THE WORK INDICATED. UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL BE NEW.
- ALL WIRING, EQUIPMENT, AND CONTROLS SHALL CONFORM TO THE NATIONAL ELECTRIC CODE AND TO THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY.
- ALL WIRING METHODS SHALL BE NEC COMPLIANT AND MEET THE REQUIREMENTS OF THE SPACE, OCCUPANCY & CONDITION OF USE.
- CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER FOR CORRECTION, EDITING, RECALCULATION, ETC. AS REQUIRED.
- DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY AND CONFIRM ALL DIMENSIONS IN THE FIELD AND NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES ON THE DRAWINGS. COPIES OF THIS DRAWING WITHOUT A PROFESSIONAL ENGINEER'S SEAL AND ORIGINAL SIGNATURE SHALL NOT BE CONSIDERED VALID AND ARE FOR CONVENIENCE TO THE USER AT THEIR OWN RISK.
- CALL BEFORE YOU DIG (PA ONE CALL SYSTEM 1-800-242-1776 OR DIAL 811). EC TO HIRE AN INDEPENDENT UTILITY LOCATING COMPANY TO MARK-OUT CUSTOMER OWNED/PRIVATE PROPERTY FACILITIES BEFORE DIGGING AT EC'S EXPENSE.
- CONTRACTOR TO PLACE NEW EQUIPMENT AS REQUIRED TO COMPLY WITH WORKING CLEARANCE ISSUES, DEDICATED SPACE ISSUES, AND WITH APPLICABLE CODES.
- FURNISH ALL NECESSARY MATERIALS, TOOLS AND LABOR AND INSTALL A COMPLETE AND FULLY OPERABLE WIRING SYSTEM AS INDICATED OR REASONABLY IMPLIED. UNLESS NOTED OTHERWISE, ALL MATERIALS SHALL BE NEW, FREE OF DEFECTS AND BE UL LISTED.
- THE EC IS RESPONSIBLE FOR THE CONSTRUCTABILITY OF THE DRAWINGS FROM A PRACTICAL AND EXISTING FIELD CONDITIONS PERSPECTIVE.

- WITH RESPECT TO CONSTRUCTION BASED ON THESE DRAWINGS, THE EC IS ULTIMATELY RESPONSIBLE FOR ALL INSTALLED MEANS AND METHODS MEETING ALL APPLICABLE CODES AND STANDARDS.
- ALL ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED PER NEC 110.16.
- THE EC SHALL VISIT SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT MAY EFFECT HIS WORK. THE EC SHALL NOT BE ENTITLED TO CHANGE ORDER(S) DUE TO FAILURE TO COMPLY.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT AND MATERIAL (AND METHODS WHEN SPECIFICALLY REQUESTED) BEING USED IN THE COURSE OF THE WORK. A MINIMUM OF TWO (2) COPIES AND PDF, AND/OR AS REQUESTED BY OWNER SHALL BE SUBMITTED FOR REVIEW. PURCHASE OF OR INSTALLATION OF MATERIALS OR SYSTEM PARTS SHALL NOT PROCEED UNTIL REVIEWED SHOP DRAWINGS/CATALOG CUTS ARE RETURNED TO THE SUBMITTING CONTRACTOR. ACCESSORIES SCHEDULED SHALL BE PROVIDED BY THE UNIT MANUFACTURER OR, IF NOT A FACTORY STANDARD, BY THE CONTRACTOR.
- ALL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER SO THAT DISRUPTION TO THE AREAS INVOLVED OR OTHER PARTS OF THE PARK ARE KEPT TO A MINIMUM. CONTRACTOR SHALL GIVE OWNER A MINIMUM OF FIVE (5) WORKING DAYS NOTICE OF ANY AND ALL WORK THAT WILL INTERFERE WITH OWNER'S OPERATIONS SO A SCHEDULE SUITABLE TO THE OWNER CAN BE ARRANGED.
- PRIOR TO ACCEPTANCE, ALL SYSTEMS SHALL BE TESTED, BALANCED AND OPERATED TO DEMONSTRATE TO THE OWNER THAT THE INSTALLATION AND PERFORMANCE OF THE INSTALLED SYSTEMS AND/OR PARTS THEREOF CONFORM TO THE DESIGN INTENT.
- UPON COMPLETION OF THE CONTRACT, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THREE (3) COMPLETE SETS OF MANUFACTURERS' OPERATING, MAINTENANCE AND PREVENTIVE MAINTENANCE INSTRUCTIONS (IN BOUND BOOK FORM AND PDF) INCLUDING PARTS LIST, AND COMPLETE PROCUREMENT INFORMATION SPECIFYING EQUIPMENT NUMBERS AND DESCRIPTIONS. OPERATING STAFF PERSONNEL SHALL BE INSTRUCTED AS TO PROPER OPERATING AND SERVICE REQUIREMENTS OF THE SYSTEMS AND EQUIPMENT.
- CONTRACTOR SHALL UPON COMPLETION OF THE WORK, SUBMIT A SET OF RECORD DRAWINGS SHOWING ALL BURIED OR CONCEALED EQUIPMENT OF PARTS OF THE WORK.
- UPON COMPLETION OF ALL WORK, THOROUGHLY CLEAN ALL SYSTEMS OF OBSTRUCTIONS, DEBRIS, SCALE, DUST, DIRT, ETC. AND PLACE SYSTEMS IN OPERATION.
- THE CONTRACTOR SHALL APPLY FOR AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS, ETC.

REVISIONS		
ISSUE	DATE	DESCRIPTION



PROJECT COORDINATOR  
Philadelphia Parks & Recreation  
1515 Arch Street, 10th Floor  
Philadelphia, PA 19102

SEAL



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CITY OF PHILADELPHIA  
PHILADELPHIA PARKS AND RECREATION  
1515 ARCH STREET  
11TH FLOOR, ONE PARKWAY BUILDING  
PHILADELPHIA, PENNSYLVANIA

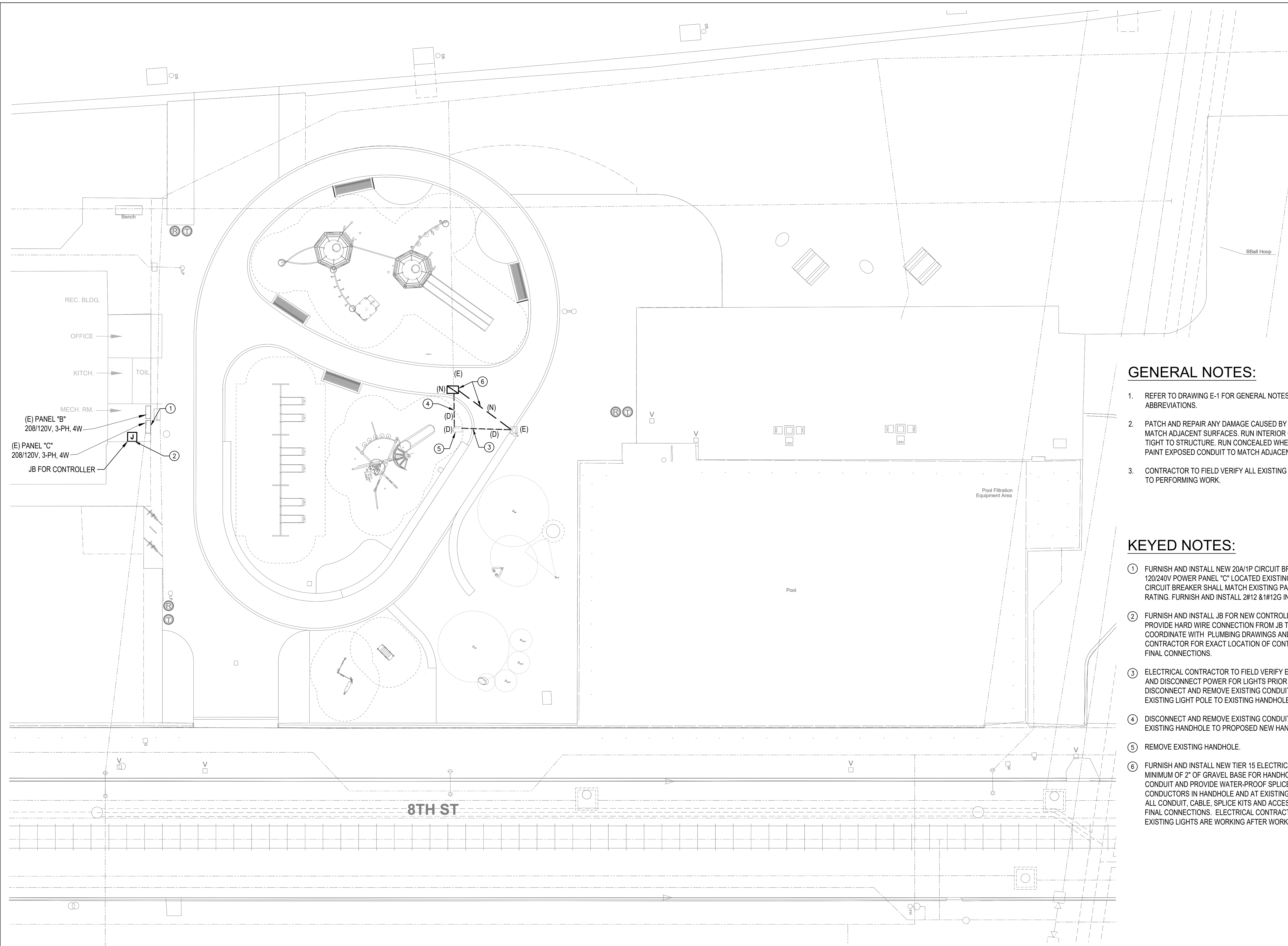
PROJECT TITLE  
**East Poplar Playground**

DRAWING TITLE  
**GENERAL NOTES,  
SYMBOLS, AND  
ABBREVIATIONS**

PROJECT NO.	DRAWING NO.
DATE: 02.07.2020	<b>E-1</b>
SCALE: 1" = 10'	
DRAWN BY: AA	
CHECKED BY: VD	
FILE:	

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





REC. BLDG.  
OFFICE  
KITCH. TOIL.  
MECH. RM.  
(E) PANEL "B"  
208/120V, 3-PH, 4W  
(E) PANEL "C"  
208/120V, 3-PH, 4W  
JB FOR CONTROLLER

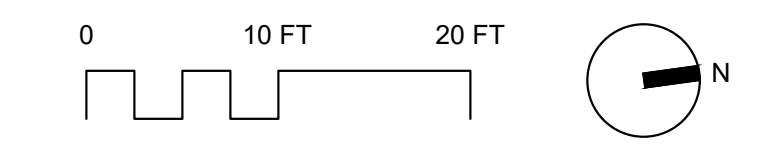
**GENERAL NOTES:**

1. REFER TO DRAWING E-1 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. PATCH AND REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION. MATCH ADJACENT SURFACES. RUN INTERIOR CONDUIT HIGH AND TIGHT TO STRUCTURE. RUN CONCEALED WHERE APPLICABLE. PAINT EXPOSED CONDUIT TO MATCH ADJACENT SURFACES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING WORK.

**KEYED NOTES:**

- ① FURNISH AND INSTALL NEW 20A/1P CIRCUIT BREAKER IN EXISTING 120/240V POWER PANEL "C" LOCATED EXISTING MECHANICAL RM. CIRCUIT BREAKER SHALL MATCH EXISTING PANEL IN TYPE AND AIC RATING. FURNISH AND INSTALL 2#12 & 1#12G IN 3/4" C FROM PANEL TO JB.
- ② FURNISH AND INSTALL JB FOR NEW CONTROLLER FOR PLUMBING. PROVIDE HARD WIRE CONNECTION FROM JB TO CONTROLLER. COORDINATE WITH PLUMBING DRAWINGS AND WITH PLUMBING CONTRACTOR FOR EXACT LOCATION OF CONTROLLER AND PROVIDE ALL FINAL CONNECTIONS.
- ③ ELECTRICAL CONTRACTOR TO FIELD VERIFY EXISTING LIGHT CIRCUIT AND DISCONNECT POWER FOR LIGHTS PRIOR TO PERFORMING WORK. DISCONNECT AND REMOVE EXISTING CONDUIT AND CONDUCTORS FROM EXISTING LIGHT POLE TO EXISTING HANDHOLE.
- ④ DISCONNECT AND REMOVE EXISTING CONDUIT AND CONDUCTORS FROM EXISTING HANDHOLE TO PROPOSED NEW HANDHOLE.
- ⑤ REMOVE EXISTING HANDHOLE.
- ⑥ FURNISH AND INSTALL NEW TIER 15 ELECTRICAL HANDHOLE. PROVIDE MINIMUM OF 2" OF GRAVEL BASE FOR HANDHOLE. EXTEND EXISTING CONDUIT AND PROVIDE WATER-PROOF SPLICES TO EXISTING CONDUCTORS IN HANDHOLE AND AT EXISTING LIGHT POLE. PROVIDE ALL CONDUIT, CABLE, SPLICE KITS AND ACCESSORIES AS REQUIRED FOR FINAL CONNECTIONS. ELECTRICAL CONTRACTOR TO TEST AND VERIFY EXISTING LIGHTS ARE WORKING AFTER WORK IS COMPLETE.

1 ELECTRICAL SITE PLAN - NEW WORK  
E-3 1" = 10'



REVISIONS		
ISSUE	DATE	DESCRIPTION

**PROJECT COORDINATOR**  
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Philadelphia, PA 19102

**SEAL**

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**CITY OF PHILADELPHIA**  
PHILADELPHIA PARKS AND RECREATION  
1515 ARCH STREET  
11TH FLOOR, ONE PARKWAY BUILDING  
PHILADELPHIA, PENNSYLVANIA

**PROJECT TITLE**  
East Poplar Playground

**DRAWING TITLE**  
ELECTRICAL SITE PLAN - NEW WORK

<b>PROJECT NO.</b>	<b>DRAWING NO.</b>
DATE: 02.07.2020	<b>E-2</b>
SCALE: 1" = 10'	
DRAWN BY: AA	
CHECKED BY: VD	

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



**ABBREVIATIONS:**

ABV	ABOVE	M	METER
AD	AREA DRAIN/ ACCESS DOOR	M.C.	MECHANICAL CONTRACTOR
ADA	AMERICAN WITH DISABILITIES ACT	MFR	MANUFACTURER
AFF	ABOVE FINISH FLOOR	(N)	NEW
AFWH	ANTI-FREEZE WALL HYDRANT	NC	NORMALLY CLOSED
AG	AIR GAP	NIC	NOT IN CONTRACT
AHJ	AUTHORITIES HAVING JURISDICTION	NO	NORMALLY OPEN (FAIL SAFE OPEN)
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	NPW	NON-POTABLE WATER
BEL	BELOW	NTS	NOT TO SCALE
BFP	BACK FLOW PREVENTER	OC	ON CENTER
BFF	BELOW FINISHED FLOOR	OD	OUTSIDE DIAMETER
CI	CAST IRON	P	PUMP
CL	CENTERLINE	P.C.	PLUMBING CONTRACTOR
CO	CLEANOUT	PD	PUMP DISCHARGE
CV	CONTROL VALVE	PG	PRESSURE GAUGE
CW	DOMESTIC COLD WATER	POC	POINT OF CONNECTION
CWFO	COLD WATER FIXTURE UNITS	PRV	PRESSURE REDUCING VALVE
DFU	DRAINAGE FIXTURE UNITS	PS	PRESSURE SWITCH
DIA	DIAMETER	PW	POTABLE WATER
DIM	DIMENSION	PWD	PHILADELPHIA WATER DEPARTMENT
DN	DOWN	(R)	REMOVE
(E)	EXISTING	SAN	SANITARY
E.C.	ELECTRICAL CONTRACTOR	SD	STORM DRAIN
EQUIP	EQUIPMENT	SFU	SUPPLY FIXTURE UNITS
ET	EXPANSION TANK	STD	STANDARD
(ER)	EXISTING TO REMAIN	SW	STORM WATER
FD	FLOOR DRAIN	TD	TRENCH DRAIN
FLA	FULL LOAD AMPS	TDH	TOTAL DYNAMIC HEAD
FU	FIXTURE UNITS	TSFU	TOTAL SUPPLY FIXTURE UNITS
GAL	GALLON	TYP.	TYPICAL
GPM	GALLONS PER MINUTE	U.F.	UNDER FLOOR
HB	HOSE BIBB	UG	UNDER GROUND OR UNDER SLAB
HP	HORSEPOWER	UON	UNLESS OTHERWISE NOTED
IBC	INTERNATIONAL BUILDING CODE	V/Ø/HZ	VOLTS/PHASE/HZ
ID	INSIDE DIAMETER	VB	VACUUM BREAKER
IMC	INTERNATIONAL MECHANICAL CODE	W	WASTE
IN	INCHES	W.O.	WITHOUT
INV EL	INVERT ELEVATION	W/	WITH
IPC	INTERNATIONAL PLUMBING CODE		

**PIPING LEGEND:**

----	DOMESTIC COLD WATER
----	SANITARY (UNDERGROUND)
----	SANITARY ABOVE GROUND
----	DEMO PIPE
— SW —	STORM WATER

**PLUMBING SYMBOLS:**

	UNION
	BALL VALVE
	GATE VALVE
	3 WAY CONTROL VALVE
	CHECK VALVE
	SOLENOID VALVE
	WATER HAMMER ARRESTOR
	CONCENTRIC REDUCER
	TRANSITION
	CAP
	ELBOW UP, DOWN
	TEE UP, DOWN
	PIPE SLOPE
	DIRECTION OF FLOW
	DRAIN
	FLOOR CLEAN OUT
	BACK FLOW PREVENTER
	WATER OR GAS METER
	PUMP AND FLOW DIRECTION

**GENERAL SYMBOLS:**

	DETAIL TAG
	SECTION TAG
	EQUIPMENT TAG
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	DEMOLITION KEY NOTE
	NEW WORK KEY NOTE

**GENERAL PLUMBING NOTES:**

- ALL SYMBOLS AND ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.
- CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS AND LAWS OF AUTHORITIES HAVING JURISDICTION. INSTALLATION SHALL BE IN ACCORDANCE WITH 2018 PHILADELPHIA PLUMBING CODE, ADOPTED OCTOBER 1, 2019 AND THE PHILADELPHIA WATER DEPARTMENT CROSS CONNECTION CONTROL MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE AND IDENTIFY ALL UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION AREA, WHETHER INDICATED ON DRAWINGS OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO UNDERGROUND UTILITIES DAMAGED DURING CONSTRUCTION. NO REIMBURSEMENT WILL BE ALLOWED FOR UTILITY REPAIR/OR REPLACEMENT.
- THE CONTRACTOR SHALL NOT BE ALLOWED ANY STORAGE AREA OTHER THAN THAT AVAILABLE WITHIN THE LIMITS OF THE STAGING AREA, CONFINES OF THE WORK AREA, OR AS DESIGNATED BY THE OWNER.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS.
- ALL MATERIAL SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS.
- ALL PENETRATIONS THROUGH DESIGNATED FIRE RATED WALLS, CEILINGS AND FLOOR SLABS (WHICH ARE 2-HOUR RATED) SHALL BE PROPERLY SEALED WITH AN APPROVED RATED FIRE AND SMOKE STOPPING MATERIAL. CONTRACTOR SHALL SUBMIT MANUFACTURER'S CATALOG DATA AND INSTALLATION DETAIL FOR FIRE AND SMOKE STOPPING TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- PRIOR TO DELIVERY OF ANY MATERIALS TO THE SITE, THE CONTRACTOR SHALL PROVIDE MATERIAL SAFETY DATA SHEETS FOR ALL ITEMS AND MATERIALS USED IN THE WORK.
- PRIOR TO ACCEPTANCE, ALL SYSTEMS SHALL BE TESTED AND OPERATED TO DEMONSTRATE TO THE OWNER, OR HIS DESIGNATED REPRESENTATIVE, THAT THE INSTALLATION AND PERFORMANCE OF THESE SYSTEMS AND/OR PARTS THEREOF CONFIRM TO THE DESIGN INTENT.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS & EQUIPMENT REQUIRED FOR THE COMPLETION & OPERATION OF ALL SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND AND APPROVAL AND PAY ALL RELATED FEES.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL HIS EMPLOYEES WITH SAFE AND HEALTHY WORKING CONDITIONS AS PRESCRIBED IN THE "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION" OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OF THE U.S. DEPARTMENT OF LABOR.
- SECURE AND DELIVER TO THE OWNER'S REPRESENTATIVE ALL CERTIFICATES OF COMPLIANCE REQUIRED BY THE AHJ.
- CONTRACTOR SHALL GIVE SUITABLE NOTICE TO ALL APPLICABLE UTILITY COMPANIES AND OWNER PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
- ALL EQUIPMENT SHALL BE HANDLED, STORED AND PROTECTED TO PREVENT DAMAGE BEFORE AND DURING INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS DOORS FOR ACCESS TO EACH CONCEALED VALVE, PIECE OF EQUIPMENT, ETC.
- ALL EQUIPMENT, ETC. SHALL BE LOCATED AND INSTALLED IN A READILY ACCESSIBLE LOCATION SO AS TO PERMIT ACCESS FOR SERVICE WITHOUT DAMAGE TO BUILDING OR FINISHED MATERIALS, PER MANUFACTURER'S INSTRUCTIONS AND APPLICABLE CODES.
- ALL MATERIAL SHALL BE NEW AND SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AT SITE.
- ALL PIPING, APPARATUS, EQUIPMENT, ETC. SHALL BE PROPERLY SUPPORTED, BRACED VERTICALLY AND HORIZONTALLY IN ACCORDANCE WITH APPLICABLE CODES AND AS REQUIRED TO PREVENT EXCESSIVE MOVEMENT.
- VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE PIPING FOR WHICH THEY ARE INSTALLED, UNLESS OTHERWISE NOTED.
- STERILIZE DOMESTIC WATER PIPING IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS.
- WATER PIPING SHALL NOT BE RUN IN AREAS SUBJECTED TO FREEZING TEMPERATURES UNLESS OTHERWISE NOTED.
- PROVIDE DRAIN VALVES AT ALL LOW POINTS OF DOMESTIC WATER PIPING SYSTEMS FOR COMPLETE DRAINAGE AND INDICATE LOCATION OF SAME ON RECORD DRAWINGS.
- PROVIDE VACUUM BREAKERS AS REQUIRED.
- CONTRACTOR SHALL REPAIR/PATCH ALL FINISHED SURFACES INCLUDING BUT NOT LIMITED TO, WALLS AND FLOORS DAMAGED BY CONSTRUCTION.

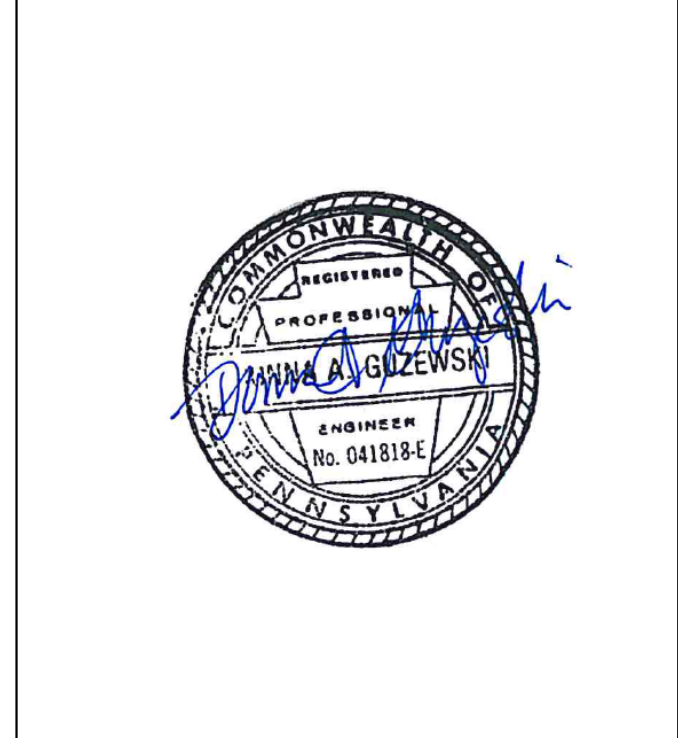
**REVISIONS**

ISSUE	DATE	DESCRIPTION



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**SEAL**



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CITY OF PHILADELPHIA  
PHILADELPHIA PARKS AND RECREATION  
1515 ARCH STREET  
11TH FLOOR, ONE PARKWAY BUILDING  
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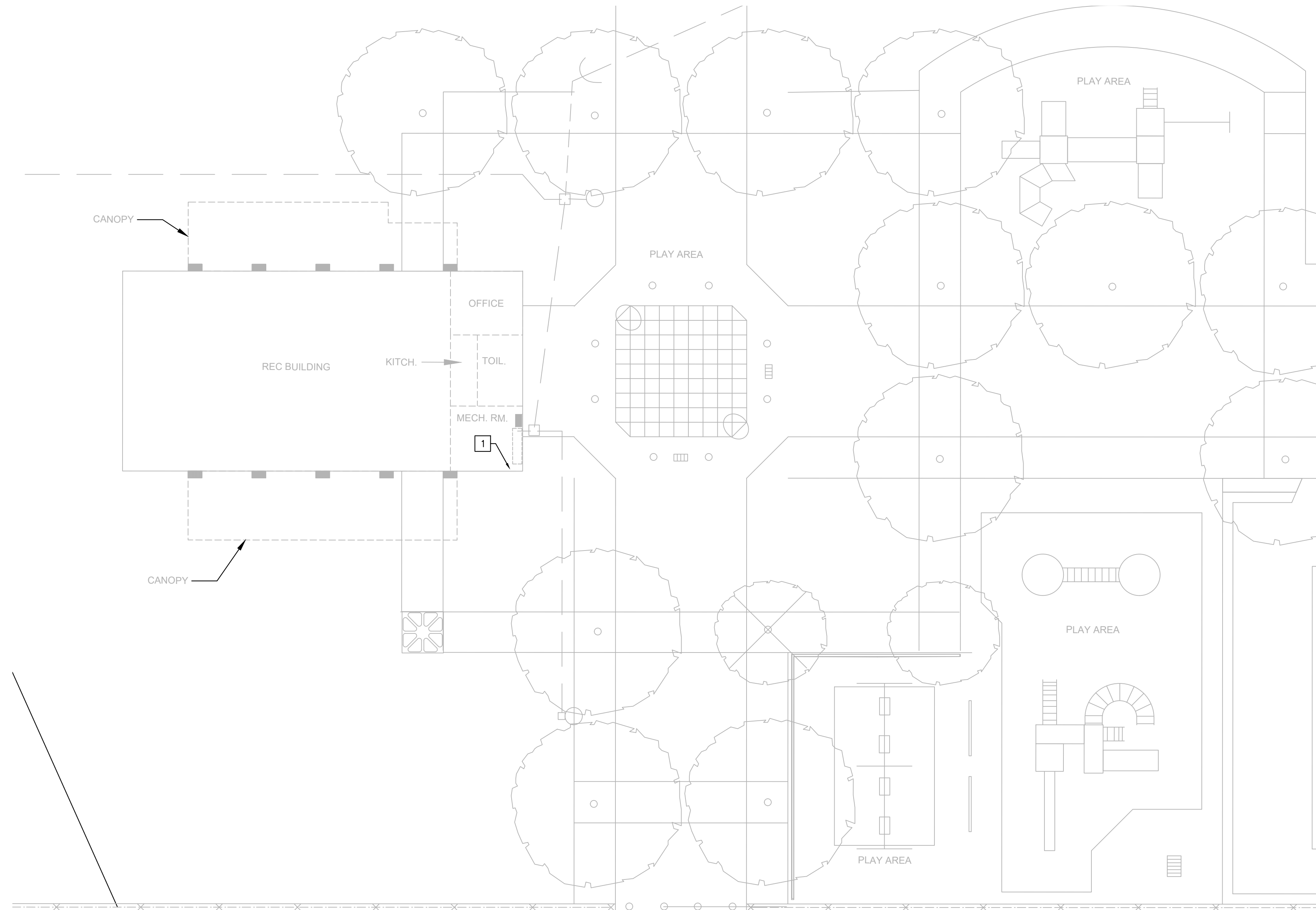
PROJECT TITLE  
**East Poplar Playground**

**DRAWING TITLE**  
**GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS**

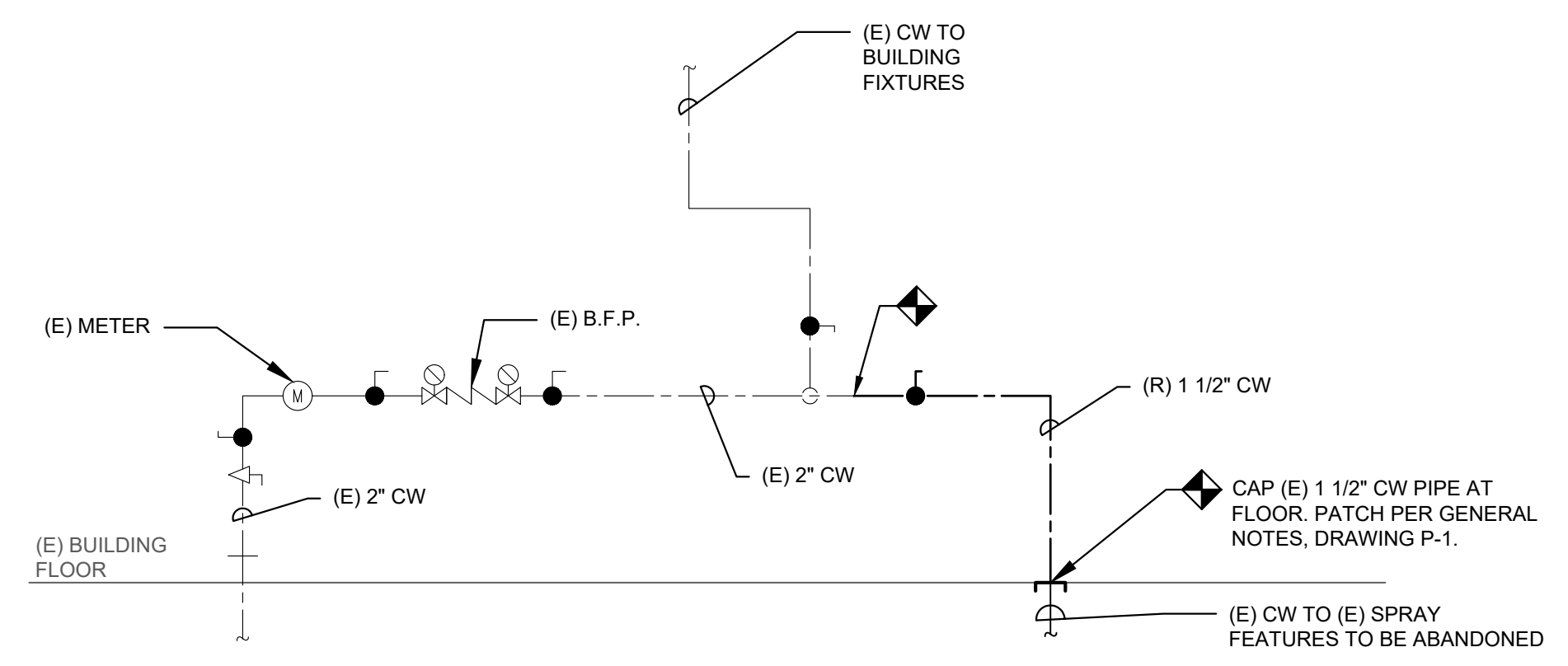
PROJECT NO.	DRAWING NO.
DATE: 02.07.2020	<b>P-1</b>
SCALE: 1" = 10'	
DRAWN BY: DAG	
CHECKED BY: DM	

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





**1 PLUMBING SITE PLAN - DEMOLITION**  
P-2 NOT TO SCALE



**2 DOMESTIC RISER - DEMOLITION**  
P-2 NOT TO SCALE

**GENERAL NOTES:**

1. AN ADDITION TO THE EXISTING BUILDING ALONG WITH ASSOCIATED WALKWAYS AND SUPPORTING INFRASTRUCTURE IS SHOWN AS EXISTING CONDITIONS FOR REFERENCE. SEE ARCHITECTURAL AND CIVIL ENGINEERING PLANS FOR DETAILS OF THESE PROPOSED IMPROVEMENTS.
2. REFER TO DRAWING P-1 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
3. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION SCOPE TO PROVIDE CLEAR WORK AREA FOR NEW SPRAY FEATURES.

**KEYED NOTES:**

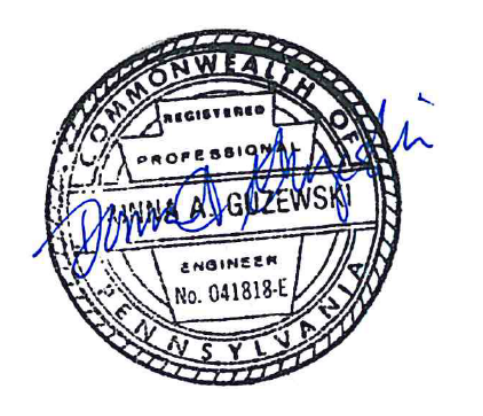
- 1 EXISTING INCOMING DOMESTIC WATER SERVICE AND PIPE FOR EXISTING SPRAY FEATURES. REFER TO DETAIL 2, THIS PAGE FOR EXTENT OF DEMOLITION OF DOMESTIC WATER PIPE.

REVISIONS		
ISSUE	DATE	DESCRIPTION



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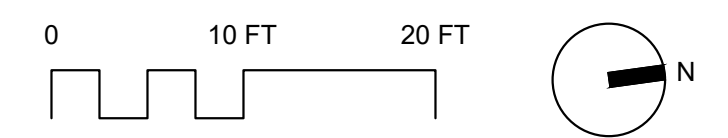
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PROJECT TITLE  
**East Poplar Playground**

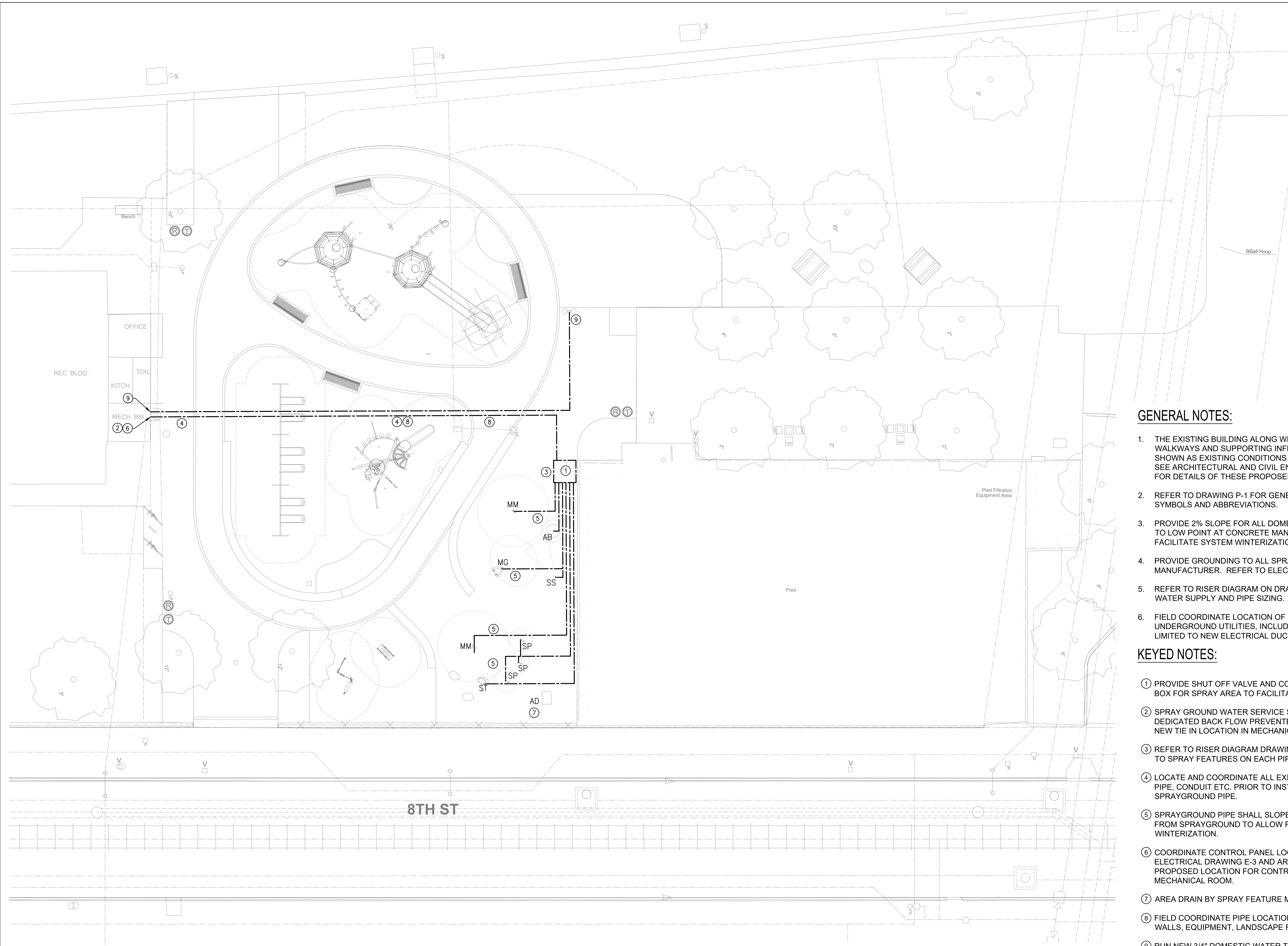
DRAWING TITLE  
**PLUMBING SITE PLAN DEMOLITION**

PROJECT NO.	DRAWING NO.
DATE: 02.07.2020	<b>P-2</b>
SCALE: 1" = 10'	
DRAWN BY: DAG	
CHECKED BY: DM	



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





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ISSUE	DATE	DESCRIPTION

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**PROJECT TITLE**  
**East Poplar Playground**

**DRAWING TITLE**  
**PLUMBING SITE PLAN NEW WORK**

<b>PROJECT NO.</b>	<b>DRAWING NO.</b>
	<b>P-3</b>

DATE: 02.07.2020  
SCALE: 1" = 10'  
DRAWN BY: DAG  
CHECKED BY: DM

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

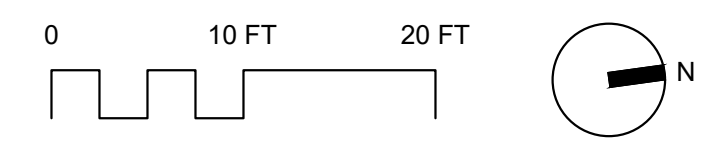
**GENERAL NOTES:**

1. THE EXISTING BUILDING ALONG WITH ASSOCIATED WALKWAYS AND SUPPORTING INFRASTRUCTURE IS SHOWN AS EXISTING CONDITIONS FOR REFERENCE. SEE ARCHITECTURAL AND CIVIL ENGINEERING PLANS FOR DETAILS OF THESE PROPOSED IMPROVEMENTS.
2. REFER TO DRAWING P-1 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
3. PROVIDE 2% SLOPE FOR ALL DOMESTIC WATER PIPING TO LOW POINT AT CONCRETE MANIFOLD BOX TO FACILITATE SYSTEM WINTERIZATION.
4. PROVIDE GROUNDING TO ALL SPRAY FEATURES PER MANUFACTURER. REFER TO ELECTRICAL DRAWINGS.
5. REFER TO RISER DIAGRAM ON DRAWING P-4 FOR WATER SUPPLY AND PIPE SIZING.
6. FIELD COORDINATE LOCATION OF NEW PIPE WITH UNDERGROUND UTILITIES, INCLUDING, BUT NOT LIMITED TO NEW ELECTRICAL DUCT BANK.

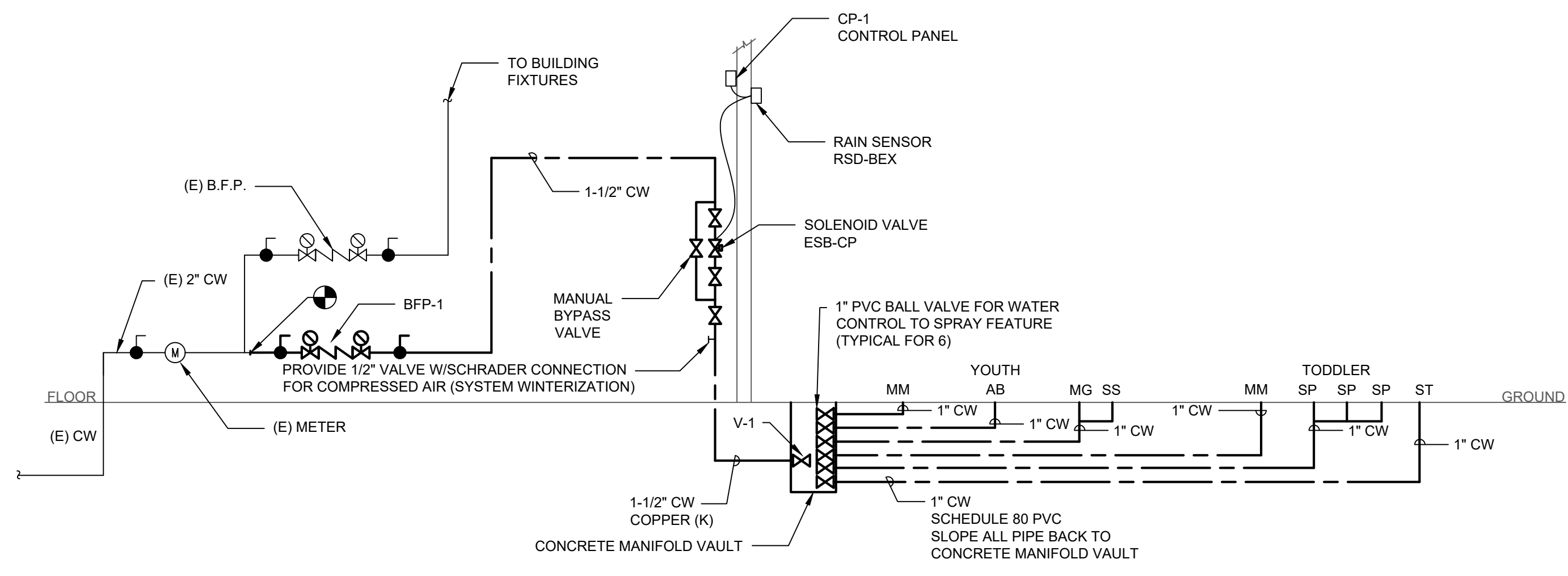
**KEYED NOTES:**

- ① PROVIDE SHUT OFF VALVE AND CONCRETE MANIFOLD BOX FOR SPRAY AREA TO FACILITATE MAINTENANCE.
- ② SPRAY GROUND WATER SERVICE SHALL HAVE A NEW, DEDICATED BACK FLOW PREVENTER (BFP). FIELD VERIFY NEW TIE IN LOCATION IN MECHANICAL ROOM.
- ③ REFER TO RISER DIAGRAM DRAWING P-4 FOR PIPE SIZES TO SPRAY FEATURES ON EACH PIPE BRANCH.
- ④ LOCATE AND COORDINATE ALL EXISTING UNDERGROUND PIPE, CONDUIT ETC. PRIOR TO INSTALLATION OF SPRAYGROUND PIPE.
- ⑤ SPRAYGROUND PIPE SHALL SLOPE TO MANIFOLD VAULT FROM SPRAYGROUND TO ALLOW FOR SYSTEM WINTERIZATION.
- ⑥ COORDINATE CONTROL PANEL LOCATION WITH ELECTRICAL DRAWING E-3 AND ARCHITECTURAL PLANS. PROPOSED LOCATION FOR CONTROL PANEL IS IN MECHANICAL ROOM.
- ⑦ AREA DRAIN BY SPRAY FEATURE MANUFACTURER.
- ⑧ FIELD COORDINATE PIPE LOCATION WITH FOOTINGS FOR WALLS, EQUIPMENT, LANDSCAPE FEATURES, ETC.
- ⑨ RUN NEW 3/4" DOMESTIC WATER TO PLAYGROUND DRINKING FOUNTAIN. PIPE MUST BE RUN 3' MINIMUM BELOW GROUND SURFACE. REFER TO L-1.1 FOR DRINKING FOUNTAIN MODEL.

**1** PLUMBING SITE PLAN - NEW WORK  
P-3 NOT TO SCALE

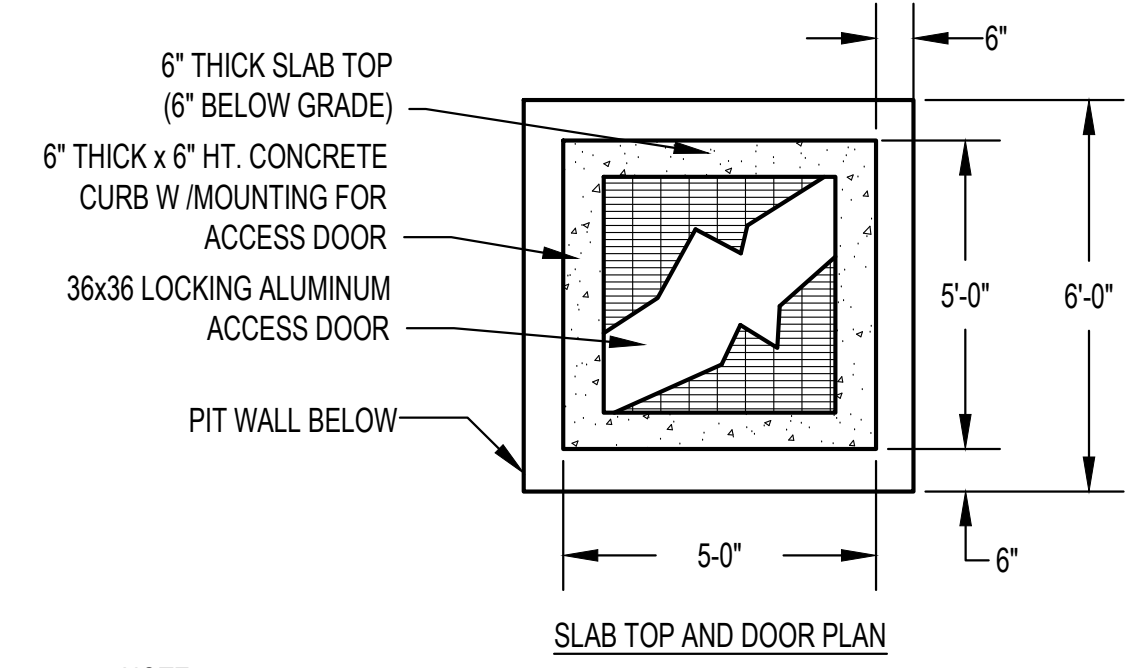
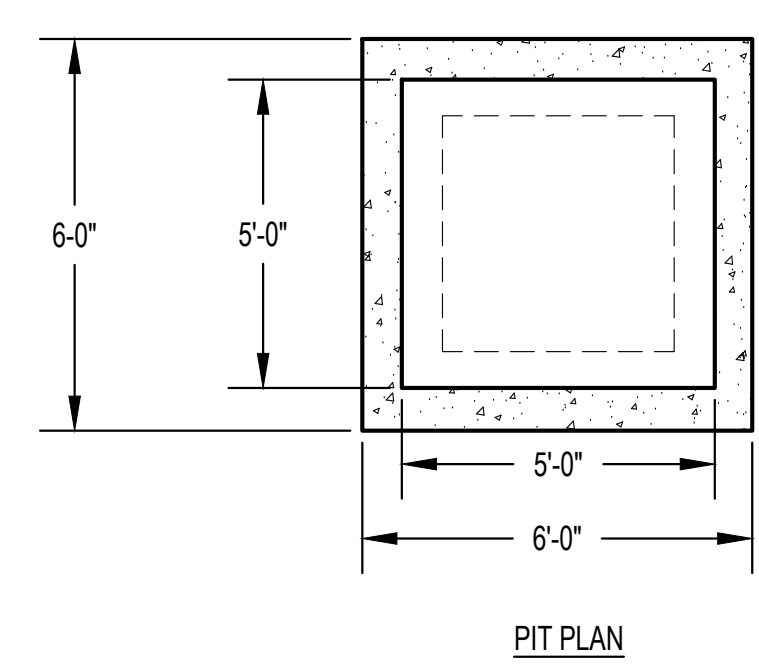
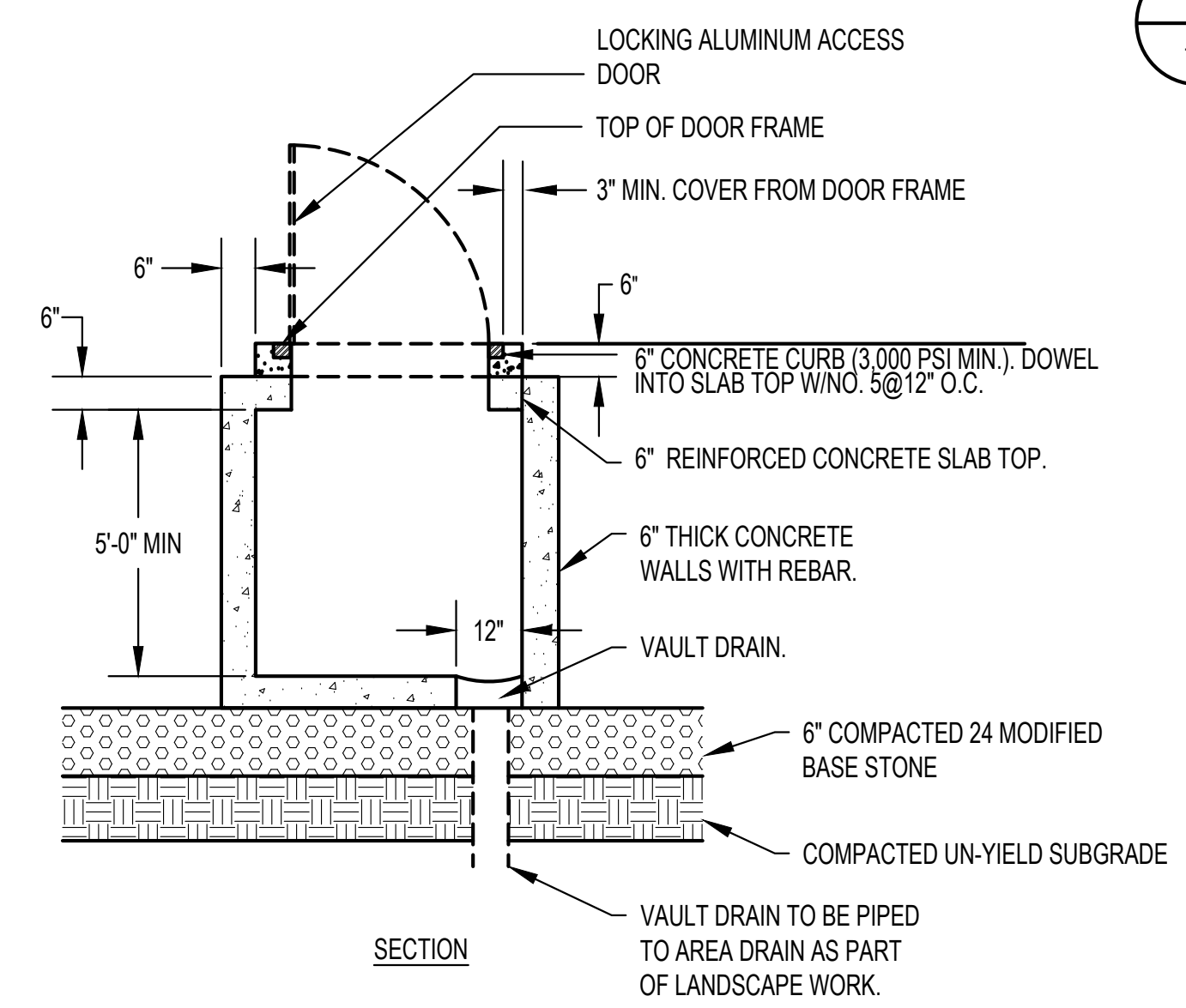






- NOTE:
1. PIPING SYSTEM FOR SPRAYGROUND FEATURES SHALL COMPLY WITH CITY OF PHILADELPHIA CROSS CONNECTION CONTROL MANUAL.
  2. SEE SCHEDULES BELOW FOR FLOW TO INDIVIDUAL FEATURES. VERIFY PIPE SIZE TO EACH FEATURE WITH MANUFACTURER OF SPRAY FEATURE.

**1 RISER DIAGRAM FOR NEW WORK AND SPRAYGROUND**  
NOT TO SCALE



- NOTE:
1. CONCRETE VAULT SHALL BE MANUFACTURED BY ALTMORE PRECAST CONCRETE.
  2. CONTRACTOR TO CONFIRM REQUIRED INTERIOR DIMENSIONS OF CONCRETE VAULT PRIOR TO FABRICATION; COORDINATE WITH SPRAYGROUND EQUIPMENT SUPPLIER.

**2 CONCRETE MANIFOLD VAULT DETAIL**  
NOT TO SCALE

**GENERAL NOTES:**

1. BACKFLOW PREVENTER SHALL BE IN COMPLIANCE WITH THE PWD CROSS CONNECTION CONTROL MANUAL AND APPROVED BACK FLOW PREVENTERS.
2. LAYOUT AND SIZING SHOWN FOR GENERAL REFERENCE ONLY. PIPE LAYOUT AND MANIFOLD BOX LOCATION SHALL BE COORDINATED WITH LANDSCAPE FEATURES AND SPRAY GROUND MANUFACTURER.

PIPE SCHEDULE		
SERVICE	SIZE	MATERIAL
ABOVE GROUND, INTERIOR SPACES	ALL	COPPER TYPE "L"
BELOW GROUND	ALL	COPPER TYPE "K" FROM BACK FLOW PREVENTER TO VALVE BOX AND DRINKING FOUNTAIN.
BELOW GROUND	ALL	SCHEDULE 80 PVC FROM CONCRETE MANIFOLD VAULT TO SPRAYGROUND FEATURES.

POPLAR STREET- TODDLER (AGES 2-5)					
BASIS OF DESIGN SPRAY FEATURES BY WATERPLAY SOLUTIONS (SEE SCHEDULE NOTE)			PRESSURE (PSI)	Flow Rate (GPM)	TOTAL (GPM)
COMPONENT NAME	ABR	QTY			
MISTY MOUNTAIN	MM	1	10	1	1
SOLO SPURT	SP	3	3	2	6
SURF STONE	ST	1	5	5	5
MAXIMUM FLOW					12

NOTE SPRAY FEATURE EQUIPMENT PRESSURE AND FLOW RATE IS BASED ON MANUFACTURER FEATURE SELECTION AT TIME OF DESIGN. ALL SPRAY FEATURES ARE LOW FLOW FOR WATER CONSERVATION. VERIFY MANUFACTURER SPRAY FEATURE FLOW RATE, REQUIRED PRESSURE ETC. REFER TO MANUFACTURER'S LAYOUT FOR SPRAY FEATURE PIPING SIZES.

POPLAR STREET- YOUTH (AGES 5 - 12)					
BASIS OF DESIGN SPRAY FEATURES BY WATERPLAY SOLUTIONS (SEE SCHEDULE NOTE)			PRESSURE (PSI)	Flow Rate (GPM)	TOTAL (GPM)
COMPONENT NAME	ABR	QTY			
MISTY MOUNTAIN	MM	1	10	1	1
ANETH BLOOM	AB	1	N/A	3	3
MORNING GRASS	MG	1	4	3	3
STEADY STREAM	SS	1	3	2	2
MAXIMUM FLOW					9

NOTE SPRAY FEATURE EQUIPMENT PRESSURE AND FLOW RATE IS BASED ON MANUFACTURER FEATURE SELECTION AT TIME OF DESIGN. ALL SPRAY FEATURES ARE LOW FLOW FOR WATER CONSERVATION. VERIFY MANUFACTURER SPRAY FEATURE FLOW RATE, REQUIRED PRESSURE ETC. REFER TO MANUFACTURER'S LAYOUT FOR SPRAY FEATURE PIPING SIZES.

FLOW TEST DATA - AUGUST 23, 2019	
DESCRIPTION	NOTES
LOCATION	800 NORTH 8TH STREET, PHILADELPHIA
SIZE OF MAIN	12"

RESIDUAL PRESSURE AND FLOW	
PRESSURE (PSI)	FLOW (GPM)
43 (STATIC)	0
40	1890
30	4170
20 (CALCULATED)	5680

PRESSURE DISTRICT IS EAST PARK. FLOW TEST LOCATION IS 8TH AND BROWN STREETS, ADJACENT TO PLAYGROUND. LOCATION MAP AT RIGHT IS PROVIDED FOR REFERENCE ONLY AND IS NOT TO SCALE.



SPRAY FEATURE CONTROL		
SYMBOL	DESCRIPTION	MANUFACTURER, MODEL, NOTES & ACCESSORIES
CP-1	RAINBIRD ESP-12LX	PROVIDE CONTROL WIRING TO RAIN SENSOR RSD-BEX AND SOLENOID VALVE. RAINBIRD EFB-CP GENERAL SERVICE BRASS NORMALLY CLOSED, OR SIMILAR.

NOTE: COORDINATE TIMER WITH RECREATION CENTER HOURS OF OPERATION.

MANUAL SHUT OFF VALVE SCHEDULE (MAIN SHUT OFF)			
SYMBOL	DESCRIPTION	CW	MANUFACTURER, MODEL, NOTES & ACCESSORIES
V-1	MAIN SPRAYGROUND SHUT OFF VALVE	1-1/2"	WATTS 2 PIECE LEAD FREE BRASS BALL VALVE, LFFBVS, OR EQUAL.

PLUMBING EQUIPMENT SCHEDULE					
SYMBOL	DESCRIPTION	FITTING	CW	SAN	MANUFACTURER, MODEL, NOTES & ACCESSORIES
BFP-1	BACK FLOW PREVENTER REDUCED PRESSURE ASSEMBLY	AIR GAP 909AG-F	1-1/2"	-	WATTS LF 709 DOUBLE CHECK VALVE BODY WITH STAINLESS STEEL SEAT. REFER TO NOTE 1. PROVIDE WITH AIR GAP, PIPE TO CLOSEST FLOOR DRAIN.

NOTE: BACKFLOW PREVENTER SHALL BE IN COMPLIANCE WITH THE PHILADELPHIA WATER DEPARTMENT CROSS CONNECTION CONTROL MANUAL FOR APPROVED BACK FLOW PREVENTERS AND INSTALLATION.

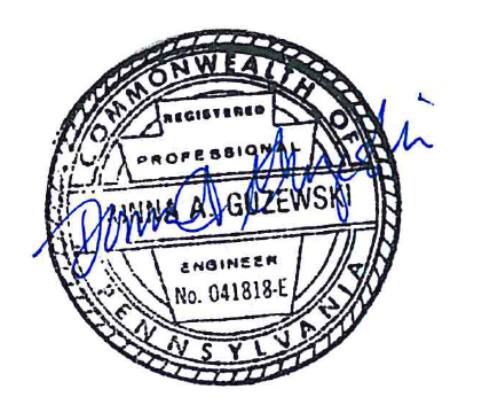
TOTAL WATER REQUIREMENT FOR SPRAY FEATURES	
TODDLER	12 GPM
YOUTH	9 GPM
MAXIMUM FLOW	21 GPM

REVISIONS		
ISSUE	DATE	DESCRIPTION



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PROJECT TITLE  
**East Poplar Playground**

DRAWING TITLE  
**PLUMBING SCHEDULES AND DETAILS**

PROJECT NO. \_\_\_\_\_ DRAWING NO. \_\_\_\_\_

DATE: 02.07.2020

SCALE: 1" = 10'

DRAWN BY: DAG

CHECKED BY: DM

FILE: \_\_\_\_\_

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

**P-4**