CITY OF PHILADELPHIA

REBUILD PHILADELPHIA

MAYOR - CHERELLE PARKER

MANAGING DIRECTOR - TUMAR ALEXANDER

COMMISSIONER - PARKS AND RECREATION - ORLANDO RENDON

EXECUTIVE DIRECTOR REBUILD - KIRA STRONG

PROJECT TITLE: WYNNEFIELD LIBRARY COURTYARD

PROJECT ADDRESS: 5325 OVERBROOK AVENUE, Philadelphia, PA 19131

PROJECT NO: 1914.06

Construction Documentation FEBRUARY 2, 2024

Client:
Rebuild Philadelphia
1515 Arch Street,
Philadelphia, PA 19102
215.683.3657

Landscape Architect (Project Lead):
Ground Reconsidered
915 Spring Garden Street, Suite 403
Philadelphia, PA 19123
215.790.0727

Civil Engineer:
KS Engineers, P.C.
530 Walnut Street, Suite 460.
Philadelphia, PA 19106
215-925-0425

Structural Engineer:
David Mason & Associates
123 S. Broad Street, Suite 1130.
Philadelphia, PA 19109
215-372-3400

Plumbing, Electrical, & Mechanical Engineer:
Sabir Richardson & Weisberg
417 North 8th Street, Suite 204
Philadelphia, PA 19123
267-585-2811

LOCATION MAP

Drawing List

			Design Development for Cost Estimate 07.28.2023	90% CD Submission 11.13.2023	**Construction Documents 02.02.2024**
	CS	Cover Sheet		●	●
CIVIL	EC-1	Existing Conditions Plan		●	●
	ES-1	Erosion and Sediment Control Plan		●	●
	ES-2	Erosion and Sediment Control Notes		●	●
	ES-3	Erosion and Sediment Control Details		●	●
LANDSCAPE	L000	Tree Protection & Demolition Plan	●	●	●
	L100	Materials & Layout Plans	●	●	●
	L200	Grading & Planting Plans	●	●	●
	L400	Sections	●	●	●
	L401	Gate and Guardrail Sections		●	●
	L500	Site Details	●	●	●
	L501	Site Details	●	●	●
	L502	Planting Details	●	●	●
STRUCTURAL	S000	General Notes		●	●
	S001	General Notes		●	●
	S100	Foundation Plan		●	●
	S200	Sections and Details		●	●
ELECTRICAL	E-001	Electrical Notes, Symbols and Abbreviations		●	●
	E-100	Electrical Site Power Plan		●	●
PLUMBING	P-000	Plumbing General Notes		●	●
	P-100	Basement Plumbing Plan		●	●
	P-101	Courtyard Plumbing Plan		●	●
	P-200	Plumbing Details		●	●

Add Alternates

1	Furnish and Install Trellis
2	Furnish and Install Gate and Railing at JCACC Building

REVISIONS

ISSUE	DATE	REVISIONS

CONSTRUCTION DOCUMENT

SEALS

LANDSCAPE ARCHITECT:
Ground Reconsidered
915 Spring Garden Street, Suite 403
Philadelphia, PA 19123
www.groundreconsidered.com

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

STRUCTURAL ENGINEER:
David Mason Associates
123 South Broad Street, Suite 1130
Philadelphia, PA 19109
www.davidmason.com

MEP ENGINEER:
Sabir Richardson & Weisberg
417 North 8th Street, Suite 204
Philadelphia, PA 19123
www.srw-eng.com

CITY OF PHILADELPHIA
WYNNEFIELD BRANCH LIBRARY
5325 OVERBROOK AVENUE
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
Wynnefield Library Courtyard

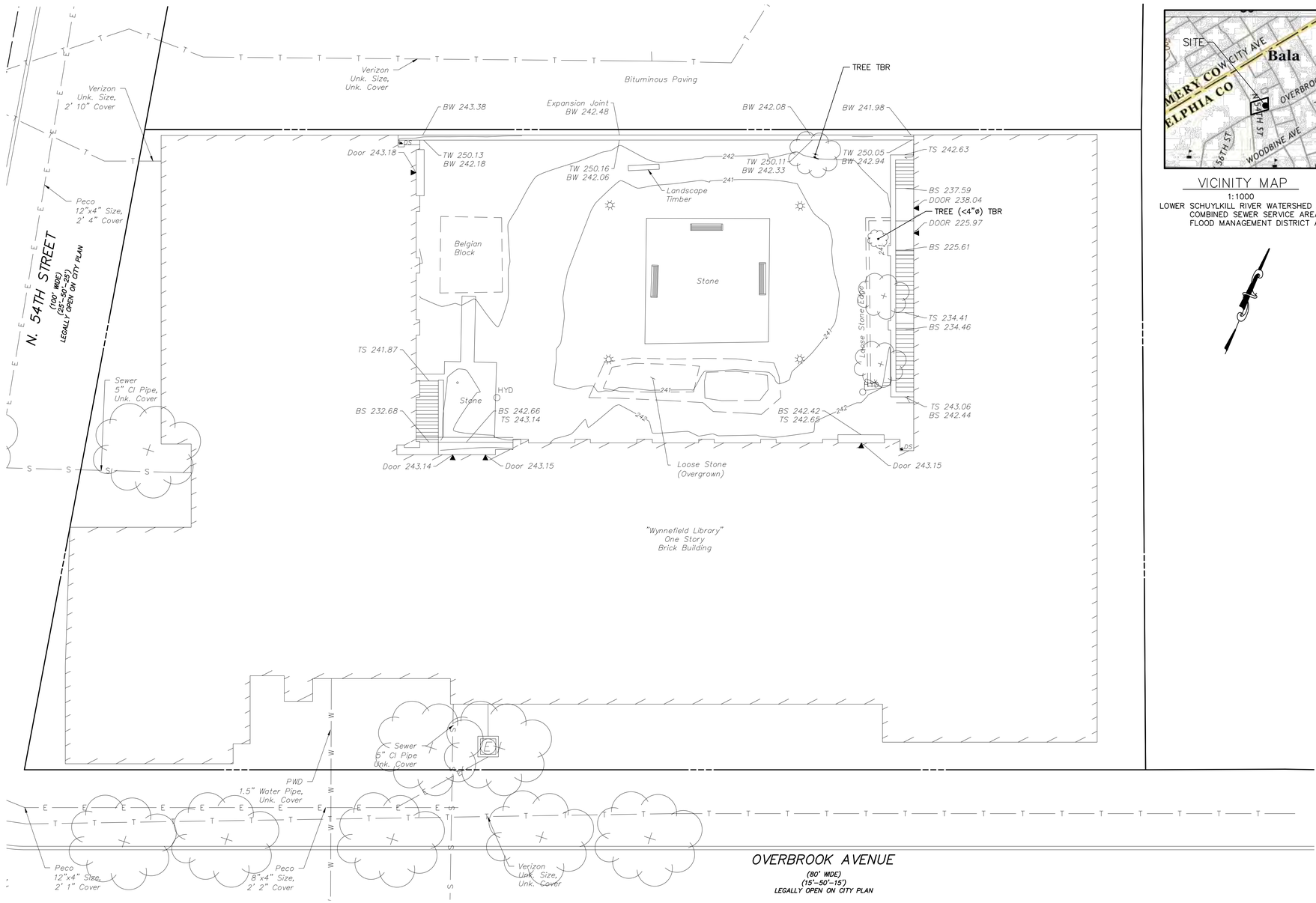
DRAWING TITLE
COVER SHEET

PROJECT NO.	DRAWING NO
1914.06	CS
DATE 02/02/2024	
SCALE AS SHOWN	
DRAWN BY LHS/XD	
CHECKED BY JB/LHS	FILE:

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

EXISTING LEGEND

- BUILDING LINES
- PROPERTY LINES
- 100 MAJOR CONTOUR LINE
- 101 MINOR CONTOUR LINE
- G GAS LINE
- W POTABLE WATER
- S SANITARY SEWER
- COMBINED SEWER
- D STORM DRAIN
- E ELETRIC CONDUIT
- OHW ELECTRIC OVERHEAD LINE
- X CHAIN LINK FENCE
- CURB
- UNKNOWN MANHOLE
- SANITARY MANHOLE
- WATER MANHOLE
- WATER VALVE
- GAS VALVE
- FIRE HYDRANT
- UTILITY POLE/STREET LIGHT
- LIGHTPOLE
- TRAFFIC SIGNAL
- IP IRON POST
- B BOLLARD
- INLET
- YARD DRAIN
- SIGN
- TREE
- BENCH
- HYD YARD HYDRANT



VICINITY MAP

1:1000

LOWER SCHUYLKILL RIVER WATERSHED A
COMBINED SEWER SERVICE AREA
FLOOD MANAGEMENT DISTRICT A

GENERAL NOTES:

1. PROPERTY DIMENSIONS OBTAINED FROM A FIELD SURVEY PERFORMED BY KS ENGINEERS, P.C. IN APRIL 2023. SURVEY BASED ON P.A.S.P.C.S. (SOUTH ZONE) NAD83. BEARINGS SHOWN ARE PER CITY PLAN AND DEED OF RECORD. ELEVATIONS ARE REFERENCED TO CITY VERTICAL DATUM.
2. SUBJECT TO ALL RESTRICTIONS, EASEMENTS AND/OR COVENANTS OF RECORD EITHER WRITTEN OR IMPLIED THAT MAY NOT APPEAR OF THIS PLAN.
3. IF BUILDINGS ARE ON THIS PLAN, BUILDING OFFSET DISTANCES SHOWN ARE FOR THE PURPOSE OF CHECKING COMPLIANCE WITH ZONING AND DEED RESTRICTIONS ONLY. NO LIABILITY WILL BE ACCEPTED IF THESE DISTANCES ARE USED FOR ANY OTHER PURPOSES.
4. UNDERGROUND UTILITIES AS SHOWN TAKEN FROM FIELD EVIDENCE, PLANS BY OTHERS, AND PLANS AS PROVIDED BY THE VARIOUS UTILITY AUTHORITIES (PA ONE CALL SERIAL NOS. 20231392299, 20231392348, 20231392349, 20231392385, 20231392386). THE ACCURACY REGARDING UTILITY LOCATION AND/OR DEPTH CANNOT BE GUARANTEED AND ADDITIONAL UNDERGROUND UTILITIES NOT DEPICTED ON THIS PLAN MAY EXIST. BEFORE EXCAVATIONS ARE BEGUN, THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776 SHALL BE CONTACTED AT LEAST 3-10 DAYS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR EXCAVATION ACTIVITIES IN ACCORDANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS.
5. INFORMATION PERTAINING TO LOTS OTHER THAN THE SUBJECT PARCEL IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
6. SITE LIES WITHIN THE MAPPED LIMITS OF FLOOD ZONE X, AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NO. 42075701766 DATED 01/17/2007 FOR THE CITY OF PHILADELPHIA.
7. PROJECT SITE IS NOT LOCATED IN A SPECIAL FLOOD HAZARD ZONE AND THERE ARE NO WETLANDS ON SITE. THERE ARE NO WATER COURSES OR BODIES OF WATER LOCATED WITHIN 100 FEET OF THE PROPERTY.
8. PWD TRACKING NUMBER FOR THIS PROJECT IS F24-WYNN-7487-01.

SITE LOCATION:

WYNNEFIELD LIBRARY
5325 OVERBROOK AVENUE
PHILADELPHIA PA 19131

PROPERTY OWNER:

CITY OF PHILADELPHIA
WYNNEFIELD BRANCH LIBRARY
1401 JOHN F KENNEDY BLVD
PHILADELPHIA PA 19102
(215)-686-4433

OPA NUMBER:

783379905

AREA:

GROSS AREA = 25,430 S.F.
IMPERVIOUS AREA = 18,528 S.F.

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. : 20231392299, 20231392348, 20231392349, 20231392385, 20231392386

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

PHILADELPHIA WATER DEPARTMENT
N 29TH ST and CAMRIA ST
2ND FLOOR JEFFERSON TOWER
PHILADELPHIA, PENNSYLVANIA 19107
(215) 685-9638

VERIZON
7000 WESTON PKWY
CARY, NORTH CAROLINA 27513
(919) 414-2782

PHILADELPHIA GAS WORKS
800 W. MONTGOMERY AVENUE, 3RD FLOOR
PHILADELPHIA, PENNSYLVANIA 19122
(215) 684-6796

COMCAST
1250 HADDONFIELD- BERLIN ROAD
CHERRY HILL, NEW JERSEY 08034
(484) 368-4391

PECO AN EXELON COMPANY C/O USIC
450 S HENDERSON ROAD, SUITE B
KING OF PRUSSIA, PENNSYLVANIA 19406
(484) 681-5720

0 5' 10' 20'
SCALE: 1" = 10'-0"

REVISIONS		
ISSUE	DATE	REVISIONS

CONSTRUCTION DOCUMENT

PROJECT COORDINATOR

SEALS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
RICHARD S. BURRELL, JR.
ENGINEER
No. PE078518

RICHARD S BURRELL, P.E.

LANDSCAPE ARCHITECT:

Ground Reconsidered
915 Spring Garden Street, Suite 403
Philadelphia, PA 19123
www.groundreconsidered.com

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530 Walnut Street, Suite 460
Philadelphia, PA 19106
www.kseg.com

STRUCTURAL ENGINEER:

David Mason Associates
123 South Broad Street, Suite 1130
Philadelphia, PA 19109
www.davidmason.com

MEP ENGINEER:

Sabir Richardson & Weisberg
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www.srw-eng.com

CITY OF PHILADELPHIA
WYNNEFIELD BRANCH LIBRARY
5325 OVERBROOK AVENUE
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE

WYNNEFIELD LIBRARY COURTYARD

DRAWING TITLE

EXISTING CONDITIONS PLAN

PROJECT NO. 1914.06	DRAWING NO. EC-1
DATE 2/2/2024	
SCALE AS NOTED	
DRAWN BY CMC	
CHECKED BY RSB	FILE:

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

EXISTING LEGEND

- BUILDING LINES
- PROPERTY LINES
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- 101 MINOR CONTOUR LINE
- G GAS LINE
- W POTABLE WATER
- S S S SANITARY SEWER
- COMBINED SEWER
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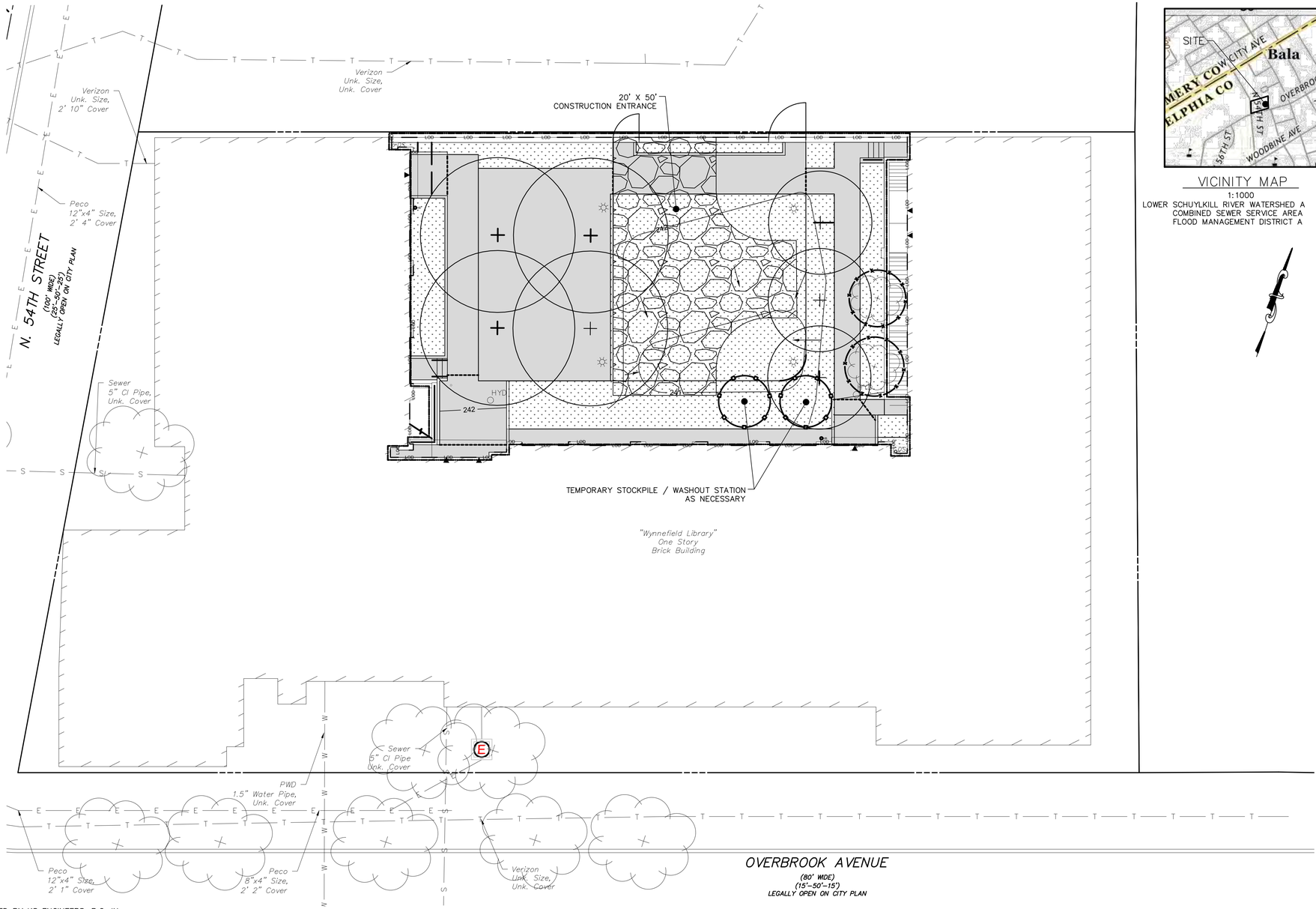
- LIGHTPOLE
- TRAFFIC SIGNAL
- IP IRON POST
- B BOLLARD
- INLET
- YARD DRAIN
- SIGN
- TREE
- BENCH
- HYD YARD HYDRANT

EROSION & SEDIMENT CONTROL LEGEND

- 150 PROPOSED CONTOUR
- COMPOST FILTER SOCK, 12" DIAMETER
- LOD LOD LOD LIMIT OF DISTURBANCE (LOD) & DEP SITE BOUNDARY
- FB FILTER BAG INLET PROTECTION
- CFS COMPOST FILTER SOCK INLET PROTECTION
- IMPERVIOUS GROUND COVER
- PERVIOUS GROUND COVER
- FLOW ARROW
- CONCRETE SIDEWALK
- PROPOSED TREE
- TREE PROTECTION FENCING



0 5' 10' 20'

SCALE: 1" = 10'-0"

VICINITY MAP

1:1000

LOWER SCHUYLKILL RIVER WATERSHED A
COMBINED SEWER SERVICE AREA
FLOOD MANAGEMENT DISTRICT A

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8. PWD TRACKING NUMBER FOR THIS PROJECT IS F24-WYNN-7487-01.

LIMIT OF DISTURBANCE (LOD) SUMMARY		
ON-SITE	5,370 SF	0.12 ACRES
PUBLIC R.O.W.	0 SF	0 ACRES
TOTAL	5,370 SF	0.12 ACRES

SITE LOCATION:

WYNNEFIELD LIBRARY
5325 OVERBROOK AVENUE
PHILADELPHIA, PA 19131

PROPERTY OWNER:

CITY OF PHILADELPHIA
WYNNEFIELD BRANCH LIBRARY
1401 JOHN F KENNEDY BLVD
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(215)-686-4433

OPA NUMBER:

783379905

AREA:

GROSS AREA = 25,430 S.F.
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PROTECT YOURSELF

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

WHAT YOU DON'T KNOW CAN HURT YOU.

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PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE & 10 WORKING DAYS IN DESIGN STAGE

Pennsylvania One Call System, Inc.
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PA ONE CALL SERIAL NO. : 20231392299, 20231392348, 20231392349, 20231392385, 20231392386

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PHILADELPHIA WATER DEPARTMENT
N 29TH ST and CAMRIA ST
2ND FLOOR JEFFERSON TOWER
PHILADELPHIA, PENNSYLVANIA 19107
(215) 685-9638

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PHILADELPHIA, PENNSYLVANIA 19122
(215) 684-6796

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450 S HENDERSON ROAD, SUITE B
KING OF PRUSSIA, PENNSYLVANIA 19406
(484) 681-5720

VERIZON
7000 WESTON PKWY
CARY, NORTH CAROLINA 27513
(919) 414-2782

COMCAST
1250 HADDONFIELD- BERLIN ROAD
CHERRY HILL, NEW JERSEY 08034
(484) 368-4391

REVISIONS		
ISSUE	DATE	REVISIONS

CONSTRUCTION DOCUMENT

PROJECT COORDINATOR

SEALS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
RICHARD S. BURRELL JR.
ENGINEER
No. PE031818

RICHARD S BURRELL, P.E.

LANDSCAPE ARCHITECT:
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CITY OF PHILADELPHIA
WYNNEFIELD BRANCH LIBRARY
5325 OVERBROOK AVENUE
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
WYNNEFIELD LIBRARY COURTYARD

DRAWING TITLE
EROSION AND SEDIMENT CONTROL PLAN

PROJECT NO. 1914.06	DRAWING NO. ES-1
DATE 2/2/2024	
SCALE AS NOTED	
DRAWN BY CMC	
CHECKED BY RSB	FILE:

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

STANDARD EROSION AND SEDIMENT CONTROL NOTES:

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

SITE STABILIZATION METHODS (TEMPORARY & PERMANENT STABILIZATION)

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

TEMPORARY SEEDING

1. THE FOLLOWING SURFACES OF THE SITE SHALL BE TEMPORARILY SEEDED AND MULCHED:
   A. THE SURFACE OF TOPSOIL STOCKPILES.
   B. THE SURFACE OF EXPOSED EARTH AREAS THAT WILL BE EXPOSED WITHOUT CONSTRUCTION ACTIVITY THEREON.
2. SEEDING SHALL OCCUR IMMEDIATELY AFTER ESTABLISHMENT OF THE TOPSOIL STOCKPILES OR ROUGH GRADED AREAS. THE FOLLOWING SHALL BE PLANTED:
   A. 40 LBS./ACRE ANNUAL RYE GRASS - COMMON, 100% P.L.S.
3. PREPARE AREAS TO BE SEEDED AS FOLLOWS:
   A. 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.
   B. 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.
4. PLACE CLEAN DRY STRAW OR HAY MULCH WITHIN 48 HOURS AFTER SEEDING. PLACE AT THE RATE OF 3 TONS PER ACRE.
5. SEEDING DATES SHALL BE BETWEEN MARCH 1 AND NOVEMBER 15.

TEMPORARY MULCHING

1. 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.
2. MULCH SHALL BE APPLIED IMMEDIATELY FOLLOWING THE ESTABLISHMENT OF THE TOPSOIL STOCKPILE OR ROUGH GRADING.
3. 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.
4. 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

1. 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:
   A. 40% PENNLAWN FINE FESCUE
   B. 3% RED TOP
   C. 20% CHAMPION PERENNIAL RYE GRASS QUANTITIES ARE OF PURE LIVE SEED (P.L.S.) SPREAD AT A RATE OF 63 LBS. PER ACRE.
2. 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.
3. SEED ONLY AT THE FOLLOWING TIMES:
   A. SPRING: MARCH 1 TO APRIL 30
   B. LATE SUMMER/EARLY FALL: AUGUST 15 TO NOVEMBER 15
4. 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.
5. 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.
6. MULCHING SHALL BE DONE AT THE MINIMUM RATE OF 3 TONS PER ACRE WITH SALT HAY, HAY OR STRAW MULCHES. PLACE MULCH IMMEDIATELY AFTER SEEDING OR WITHIN 48 HOURS AFTER SEEDING IS COMPLETED. PROPERLY MAINTAIN MULCHED AREAS UNTIL THE ENTIRE PROJECT HAS BEEN COMPLETED. PROMPTLY REAPPLY MULCH MATERIALS WHICH BECOME DISLODGED OR LOST DUE TO WIND, RAIN, OR OTHER CAUSES AT INITIAL RATES OR AS DIRECTED.
7. LIQUID MULCH BINDERS MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCHES.
   A. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH IN VALLEYS AND AT CRESTS OF BANKS. REMAINDER OF AREAS SHOULD BE UNIFORM IN APPEARANCE.
   B. USE ONE OF THE FOLLOWING: EMULSIFIED ASPHALT, CLASS E-1 OR E-6. APPLY 31 GALLONS PER 1,000 SQUARE YARDS ON SLOPES LESS THAN 8 FEET HIGH. ON SLOPES 8 FEET HIGH OR MORE, USE 58 GALLONS PER 1,000 SQUARE YARDS. CUTBACK ASPHALT. CLASS RC-250. APPLY 31 GALLONS PER 1,000 SQUARE YARDS ON FLAT AREAS AND ON SLOPES LESS THAN 8 FEET HIGH. ON SLOPES 8 FEET HIGH OR MORE, USE 58 GALLONS PER 1,000 SQUARE YARDS. NON-ASPHALTIC EMULSION - NATURAL VEGETABLE GUM BLENDED WITH GELLING AND HARDENING AGENTS (TERRA TACK, AR) AS MANUFACTURED BY GRASS GROWERS COMPANY OR EQUAL. APPLY 25 LBS. PER 1,000 SQUARE YARDS.

MAINTENANCE PROGRAM

1. 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.
2. THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL PERMANENT CONTROL MEASURES.
3. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING,AND RENETTING, MUST BE DONE IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS TO THOSE INSTALLED WILL BE REQUIRED.
4. SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF AT AN OFF-SITE LOCATION IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
5. SOIL SEDIMENT REMOVED FROM SILT FENCE DURING REGULAR MAINTENANCE WILL BE INCORPORATED BACK INTO THE EARTHWORK AS FILL ON THE SITE. SOIL SEDIMENT MATERIAL SHALL BE DISTRIBUTED ON-SITE WITHOUT CHANGING DRAINAGE PATTERNS DURING A SPECIFIC CONSTRUCTION STAGE. SILT FENCE INSTALLED ON THE PROJECT SITE SHALL BE MAINTAINED AS FOLLOWS:
   A. THE FENCE CONDITION WILL BE INSPECTED ONCE A WEEK OR AFTER EVERY STORM EVENT, WHICHEVER COMES FIRST. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY.
   B. 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.
   C. UNDERCUTTING OR EROSION OF THE TOE ANCHOR WILL BE REPLACED IMMEDIATELY WITH ROCK FILTER OUTLETS.
   D. ANY MANUFACTURER'S RECOMMENDATIONS WILL BE ADHERED TO WHEN REPLACING FILTER FABRIC FENCE DUE TO WEATHERING.
6. 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.
7. OTHER BMP'S
   A. SEDIMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION AFTER EACH RUNOFF EVENT.

EROSION AND SEDIMENT CONTROL (E&SC) NOTES:

1. 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
2. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION AND SHALL SAFELY AND LEGALLY DISPOSE OF ALL THESE ITEMS IN ACCORDANCE WITH APPLICABLE LOCAL, FEDERAL, STATE AND REGULATORY AUTHORITY HAVING JURISDICTION. RECYCLING MUST BE DONE IN ACCORDANCE WITH APPLICABLE REGULATIONS. BURNING OF ANY DEMOLISHED MATERIALS ON-SITE SHALL NOT BE PERMITTED. RECYCLING OF DEMOLITION DEBRIS SHALL BE APPROVED BY THE OWNER. ALL EXISTING FILL TO BE REMOVED FROM SITE IN ACCORDANCE WITH THE PA DEP MANAGEMENT OF FILL POLICY AND REGULATIONS.
3. COMPOST FILTER SOCK ON PAVING TO BE WEIGHTED DOWN BY OBJECTS OF CONSIDERABLE MASS (SAND BAGS, CONCRETE BLOCK OR OTHER SUITABLE MATERIAL). COMPOST FILTER SOCK TO BE INSTALLED DOWNSTREAM OF ALL EARTH MOVING ACTIVITIES.
4. INLET PROTECTION IN ROADWAYS NOT TO INCLUDE STONE OR BERMS FOR ROADWAY MAINTENANCE PURPOSES.
5. MAXIMUM HEIGHT FOR STOCKPILE AREAS TO BE 20 FEET. THE MAXIMUM SIDE SLOPE FOR STOCKPILE AREAS NOT TO EXCEED 2:1.
6. RUMBLE PAD CONSTRUCTION ENTRANCE TO BE SIZED IN ACCORDANCE WITH PA DEP MINIMUM REQUIREMENTS OF 50'L X 20'W AND BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.
7. 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:
   a. NOTIFY OCCUPANTS OF NEARBY PROPERTIES, IN WRITING 10 DAYS BEFORE ENGAGING IN EARTHWORK, CONSTRUCTION AND DEMOLITION ACTIVITIES.
   b. USE OF VACUUM OR SIMILAR SUCTION SYSTEMS TO CAPTURE DUST KICKED UP BY POWER TOOLS WHEN GRINDING OR CUTTING.
   c. APPLICATION OF WATER OR APPROVED DUST CONTROL SUPPRESSANT DURING EXCAVATION, DEMOLITION AND/OR CONSTRUCTION TO SUPPRESS DUST FORMATION.
   d. COVERING AND WETTING OF STOCKPILES EARTH, SAND, GRAVEL AND OTHER SIMILAR CONSTRUCTION MATERIALS.
   e. ALL PERIMETER FENCING MUST HAVE DUST CONTROL FABRIC AND MUST MEASURE A MINIMUM OF 5 FT IN HEIGHT FROM THE BOTTOM OF FENCING.
   f. 10 MILE PER HOUR SPEED LIMIT FOR ALL EQUIPMENT AND TRUCKS TRAVELING WITHIN THE WORK SITE.
   g. WETTING AND SWEEPING OF ROADWAYS / ACCESS ROAD IN A WORK SITE TO PREVENT DUST FORMATION.
8. PERMANENT INLET PROTECTION TO BE INSTALLED ON ALL INLETS THAT DRAIN TO THE UNDERGROUND STORMWATER MANAGEMENT SYSTEMS IN ACCORDANCE WITH THE SPECIFICATIONS.

MAINTENANCE NOTES:

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

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

CONSTRUCTION SEQUENCE:

1. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN EARTH MOVING ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE CITY OFFICIALS, THE EROSION AND SEDIMENT CONTROL PREPARER, AND REPRESENTATIVE OF THE CITY OF PHILADELPHIA EROSION AND SEDIMENT CONTROL OFFICE TO AN ON-SITE MEETING. INCLUDE A REPRESENTATIVE FROM PWD'S EROSION AND SEDIMENT CONTROL INSPECTION GROUP BY CONTACTING THE INSPECTIONS COORDINATOR OF PWD (OFFICE 215-685-6387).
2. 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.
3. INSTALL TREE PROTECTION AS SHOWN ON THE PLAN.
4. INSTALL CONSTRUCTION ENTRANCE AS SHOWN AND IN ACCORDANCE WITH THE CONSTRUCTION ENTRANCE DETAIL.
5. CONTRACTOR SHALL PROVIDE PROTECTION OF ANY EXISTING UTILITIES, SURFACE FEATURES AND PAVEMENTS THAT ARE TO REMAIN THROUGHOUT THE DURATION OF PROJECT CONSTRUCTION.
6. CLEAR SITE WITHIN LIMIT OF DISTURBANCE AREA. SAWCUT PAVED AREAS AS NEEDED TO MINIMIZE EARTH DISTURBANCE. DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISCARDED IN ACCORDANCE WITH APPLICABLE CITY, STATE AND FEDERAL REGULATIONS.
7. ROUGH GRADE REMAINING SUBBASE TO REQUIRED DEPTHS.
8. AS SOON AS SLOPES, CHANNEL DITCHES AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED. CESSATION OF ACTIVITY FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.
9. CONSTRUCT REMAINING FULL DEPTH PAVEMENT.
10. CONSTRUCT NEW WALL AND FENCING.
11. TOPSOIL AND SEED GRASSED AREAS, INSTALL PLANTS AND TREES AS REQUIRED.
12. SWEEP PAVED AREAS DAILY TO PREVENT TRACKING OF SOIL OFF-SITE.
13. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE CONTRACTOR AND/OR OPERATOR SHALL CONTACT INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) FOR A FINAL INSPECTION PRIOR TO REMOVAL ON THE E&SC BMP'S.
14. REMOVE SOIL EROSION MEASURES AFTER SITE HAS BEEN INSPECTED AND STABILIZED.

F24-WYNN-7487-01

REVISIONS		
ISSUE	DATE	REVISIONS

CONSTRUCTION DOCUMENT

PROJECT COORDINATOR

SEALS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
RICHARD S. BURRELL, JR.
ENGINEER
RICHARD S BURRELL, P.E.

LANDSCAPE ARCHITECT:
Ground Reconsidered
915 Spring Garden Street, Suite 403
Philadelphia, PA 19123
www.groundreconsidered.com

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

STRUCTURAL ENGINEER:
David Mason Associates
123 South Broad Street, Suite 1130
Philadelphia, PA 19109
www.davidmason.com

MEP ENGINEER:
Sabir Richardson & Weisberg
417 North 8th Street, Suite 204
Philadelphia, PA 19123
www.srw-eng.com

CITY OF PHILADELPHIA
WYNNEFIELD BRANCH LIBRARY
5325 OVERBROOK AVENUE
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
WYNNEFIELD LIBRARY COURTYARD

DRAWING TITLE
EROSION AND SEDIMENT CONTROL NOTES

PROJECT NO.	DRAWING NO.
1914.06	ES-2
DATE 2/2/2024	
SCALE AS NOTED	
DRAWN BY CMC	
CHECKED BY RSB	FILE:

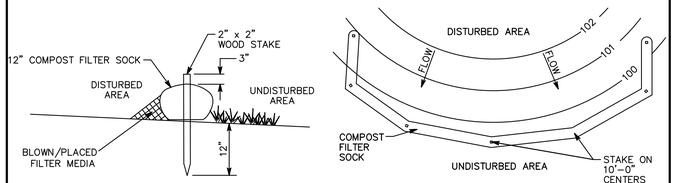
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

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)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
Sock Diameters	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
Mesh Opening	3/8"	3/8"	3/8"	3/8"	1/8"
Tensile Strength		26 psi	26 psi	44 psi	202 psi
Ultraviolet Stability % Original Strength (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.
Minimum Functional Longevity	6 months	9 months	6 months	1 year	2 years
Two-ply systems					
Inner Containment Netting	HDPE biaxial net 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.					

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 dS/m (mmhos/cm) Maximum

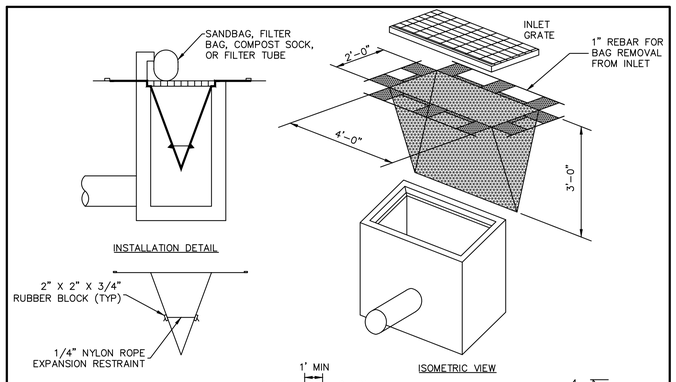


SECTION VIEW

PLAN VIEW

1. REMOVE DEPOSITS WHEN SEDIMENT ACCUMULATION IS ONE HALF THE HEIGHT OF THE EXPOSED COMPOST FILTER SOCK.
2. 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.
3. REPLACE BIODEGRADABLE FILTER SOCK AFTER 6 MONTHS; PHOTODEGRADABLE AFTER 12 MONTHS.
4. ALL DIMENSIONS ARE IN U.S. CUSTOMARY UNITS.
5. 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.
6. STABILIZING DEVICES SHALL BE SPACED 10 FEET ON CENTER OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS LESS.
7. 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.
8. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

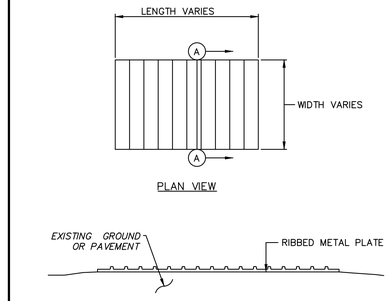
COMPOST FILTER SOCK, 12" DIAMETER



NOTES:

1. MAXIMUM DRAINAGE AREA = 1/2 ACRE.
2. INLET PROTECTION IS NOT REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS REQUIRED FOR ALL INSTALLATIONS.
3. 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.
4. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS

FILTER BAG INLET PROTECTION



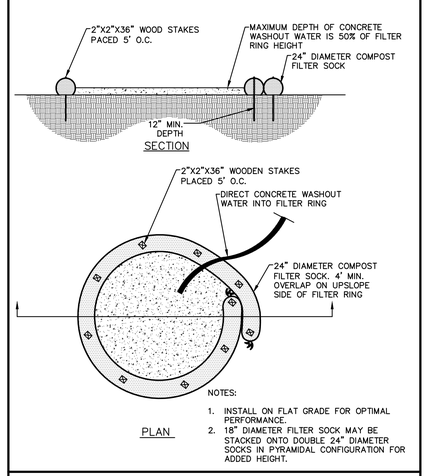
PLAN VIEW

SECTION A–A

NOTES:

1. 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.
2. MINIMUM SIZE 50'L X 20'W

RUMBLE PAD (CONSTRUCTION ENTRANCE)



PLAN

NOTES:

1. INSTALL ON FLAT GRADE FOR OPTIMAL PERFORMANCE.
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.

COMPOST SOCK WASHOUT STATION

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.

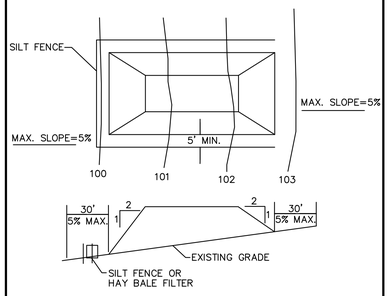
Topsoil should be uniformly distributed across the disturbed area to a depth of 4 to 8 inches minimum — 2 inches on fill outslopes. Spreading should be done in such a manner that sodding or seeding can proceed with a minimum of additional preparation or tillage. Irregularities in the surface resulting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

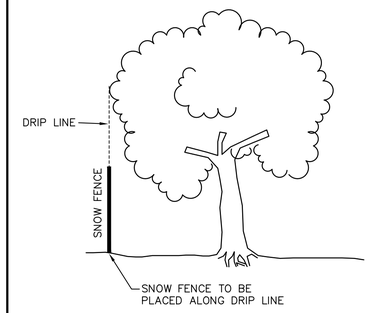
Adapted from VA DSWC



NOTES:

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

TEMPORARY STOCKPILE



NOTE: 4' HIGH SNOW FENCE SHALL BE ERECTED ALONG THE DRIPLINE OF ALL TREES TO REMAIN, PRIOR TO CONSTRUCTION.

TREE PROTECTION FENCING

F24–WYNN–7487–01

REVISIONS

ISSUE	DATE	REVISIONS

CONSTRUCTION DOCUMENT

PROJECT COORDINATOR

SEALS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — RICHARD S. BURRELL, JR. — ENGINEER — No. PE078108

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CITY OF PHILADELPHIA
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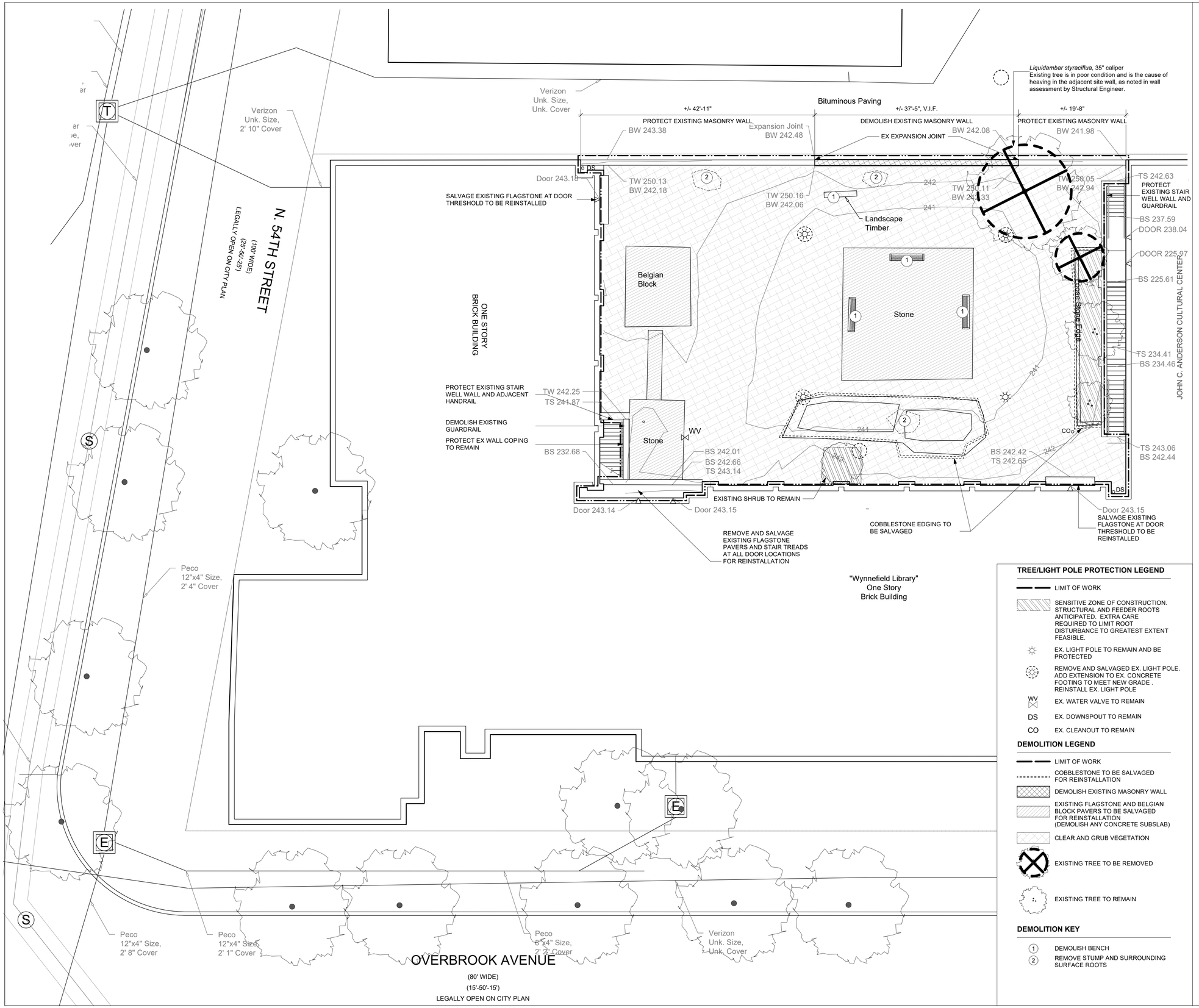
5325 OVERBROOK AVENUE
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
WYNNEFIELD LIBRARY COURTYARD

DRAWING TITLE
EROSION AND SEDIMENT CONTROL DETAILS

PROJECT NO. 1914.06	DRAWING NO. ES-3
DATE 2/2/2024	
SCALE AS NOTED	
DRAWN BY CMC	
CHECKED BY RSB	FILE:

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



TREE/LIGHT POLE PROTECTION LEGEND

- LIMIT OF WORK
- SENSITIVE ZONE OF CONSTRUCTION. STRUCTURAL AND FEEDER ROOTS ANTICIPATED. EXTRA CARE REQUIRED TO LIMIT ROOT DISTURBANCE TO GREATEST EXTENT FEASIBLE.
- EX. LIGHT POLE TO REMAIN AND BE PROTECTED
- REMOVE AND SALVAGED EX. LIGHT POLE. ADD EXTENSION TO EX. CONCRETE FOOTING TO MEET NEW GRADE , REINSTALL EX. LIGHT POLE
- WV — EX. WATER VALVE TO REMAIN
- DS — EX. DOWNSPOUT TO REMAIN
- CO — EX. CLEANOUT TO REMAIN

DEMOLITION LEGEND

- LIMIT OF WORK
- COBBLESTONE TO BE SALVAGED FOR REINSTALLATION
- DEMOLISH EXISTING MASONRY WALL
- EXISTING FLAGSTONE AND BELGIAN BLOCK PAVERS TO BE SALVAGED FOR REINSTALLATION (DEMOLISH ANY CONCRETE SUBSLAB)
- CLEAR AND GRUB VEGETATION
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO REMAIN

DEMOLITION KEY

1. DEMOLISH BENCH
2. REMOVE STUMP AND SURROUNDING SURFACE ROOTS

TREE PROTECTION NOTES

1. CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS OF EXISTING TREES AND PLANTINGS INDICATED TO REMAIN WITH DIGITAL PHOTOS AND/OR VIDEO, WHICH ESTABLISHES PRECONSTRUCTION CONDITIONS THAT MIGHT BE MISCONTRUED AS DAMAGE CAUSED BY CONSTRUCTION ACTIVITY. INCLUDE PLANS AND NOTATIONS TO INDICATE SPECIFIC WOUNDS AND DAMAGE CONDITIONS OF EACH TREE OR OTHER PLANTS DESIGNATED TO REMAIN.
2. LOCATE AND CLEARLY IDENTIFY TREES, SHRUBS AND OTHER VEGETATION TO REMAIN. FLAG EACH TREE TO REMAIN AT A HEIGHT OF 6-FEET +/- WITH DISTINCTIVE, HIGHLY VISIBLE COLOR FLAGGING TAPE. SUPERVISING CONTRACTOR AND/OR SITE FOREMAN IS RESPONSIBLE TO INSTRUCT AND MONITOR ALL LABORERS AND WORKERS ABOUT THE TREE PROTECTION REQUIREMENTS.
3. BRING ANY UNFORESEEN SITE CONDITIONS, SUCH AS STRUCTURAL ROOTS, THAT WILL IMPACT NEW CONSTRUCTION TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. DO NOT PROCEED WITH WORK WITHOUT WRITTEN AUTHORIZATION.
4. WHEN WORKING WITHIN TREE PROTECTION ZONES, USE CARE TO AVOID DAMAGE TO TREE TRUNKS AND ROOTS SUCH AS, BUT NOT LIMITED TO, IMPACT WOUNDS CAUSED BY EQUIPMENT. CONSULT A CERTIFIED ARBORIST IS DAMAGED TO AN PROTECTED TREE OCCURS.
5. LIMIT EXTENT OF EXCAVATION WITHIN PROTECTION ZONES TO THE GREATEST EXTENT FEASIBLE.
6. WHERE EXCAVATION IS REQUIRED IN PROTECTION ZONES TO INSTALL UTILITIES, HAND EXCAVATE AND/OR AIR-SPADE AROUND TREE ROOTS OR TUNNEL UNDER ROOTS BY DRILLING, AUGER BORING, OR PIPE JACKING. DO NOT CUT MAIN LATERAL TREE ROOTS OR TAPROOTS. CUTTING OF SMALLER ROOTS BY A CERTIFIED ARBORIST THAT INTERFERE WITH INSTALLATION OF UTILITIES IS PERMITTED.
7. TRENCHING OR EXCAVATION WITHIN THE DRIPLINE OF EXISTING TREES 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.
8. WHERE EXSITING ROOTS OF TREES TO REMAIN ARE ENCOUNTERED WITHIN EXCAVATION AREAS, DO NOT ALLOW EXPOSED ROOTS TO DRY OUT PRIOR TO PLACING PERMANENT BACKFILL.
9. EXERCISE EXTREME CAUTION IN REMOVING PAVEMENT WITHIN DRIPLINE OF EXISTING TREES TO REMAIN.
10. MAINTAIN EXISTING GRADES WITHIN THE PROTECTION ZONE TO THE GREATEST EXTENT FEASIBLE. DO NOT LOWER OR RAISE GRADES MORE THAN 2-INCHES WITHIN PROTECTION ZONE. HAND-GRADE TO REQUIRED FINISHED ELEVATIONS WITH PROTECTION ZONES.
11. WHEN DIRECTED BY CERTIFIED ARBORIST, AERATE SURFACE SOIL COMPACTED DURING CONSTRUCTION. AERATE TO EXTENT AS DIRECTED BY ARBORIST AND NO CLOSER THAN 36-INCHES TO TREE TRUNK. DRILL 2-INCH DIAMETER HOLES A MINIMUM OF 12-INCHES DEEP AT 24-INCHES ON CENTER. BACKFILL HOLES WITH APPROVED COMPOST.
12. REPLACE TREES, SHRUBS AND OTHER VEGETATION INDICATED TO REMAIN THAT ARE DAMAGED BY CONSTRUCTION OPERATIONS, IN A MANNER APPROVED BY THE OWNER'S REPRESENTATIVE WHEN GREATER THAN OR EQUAL TO 25% OF THE PLANT IS DEAD OR IN AN UNHEALTHY CONDITION AND OWNER'S REPRESENTATIVE DETERMINES ARE INCAPABLE OF RESTORING TO NORMAL GROWTH. PROVIDE NEW TREES OF THE SAME SIZE AND APPROVED SPECIES FOR EACH TREE THAT MEASURES 6-INCHES IN CALIPER SIZE OR SMALLER. WHERE THE TREE TO BE REPLACED EXCEEDS 6-INCHES IN CALIPER, PROVIDE TWO (2) 8-INCH CALIPER TREES OF AN APPROVED SPECIES AT A LOCATION DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
13. PROTECT ROOT SYSTEMS FROM PONDING, ERODING, OR EXCESSIVE WETTING CAUSED BY DEWATERING OPERATIONS.
14. DO NOT PARK VEHICLES OR EQUIPMENT WITH PROTECTION ZONES.
15. CERTIFIED ARBORIST MAY REQUIRE CROWN PRUNING TO COMPENSATE FOR ROOT LOSS CAUSED BY DAMAGING OR CUTTING OF THE ROOT SYSTEM. PROVIDE SUBSEQUENT MAINTENANCE DURING CONTRACT PERIOD AS RECOMMENDED BY ARBORIST.
16. OWNER'S REPRESENTATIVE MAY REQUIRE ADDITIONAL PROTECTION FENCING OR RELOCATION OF FENCING AS WORK PROGRESSES.
17. 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.
18. DO NOT ATTACH SIGNS TO OR AROUND TREES OR PLANTS TO REMAIN UNLESS OTHERWISE INDICATED.
19. DO NOT ALLOW ROOTS TO DRY OUT BEFORE PLACING PERMANENT BACKFILL. PROVIDE TEMPORARY EARTH COVER AND/OR WRAP WITH MOIST BURLAP. WATER AND MAINTAIN IN MOIST CONDITION. TEMPORARILY SUPPORT AND PROTECT ROOTS FROM DAMAGE UNTIL THEY ARE PERMANENTLY RELOCATED AND/OR COVERED WITH SOIL

DEMOLITION NOTES

1. REMOVE ALL PAVEMENT, BASE MATERIALS AND/OR CONSTRUCTION DEBRIS AND EXCAVATE REMAINING SOIL/FILL TO A MINIMUM OF 24" BELOW EXISTING GRADE IN ALL AREAS WHERE EXISTING PAVEMENTS ARE TO BE REMOVED AND REPLACED WITH LAWN AND/OR PLANTING.
2. REMOVE ROOTS OF TREES AND SHRUBS TO 2 BELOW GRADE MINIMALLY.
3. NOTIFY OWNER AND RECEIVE APPROVAL PRIOR TO REMOVAL OF SIGNS.
4. SCRAPE AND PAINT EXISTING LIGHT POLES.
5. PATCH EXISTING ASPHALT PAVEMENT WHERE NECESSARY FOR REMOVAL OF EXISTING MASONRY WALL.

0 4 8 16 FT

N

REVISIONS

ISSUE	DATE	REVISIONS

PHILADELPHIA MANETO

CONSTRUCTION DOCUMENT

SEALS

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5325 OVERBROOK AVENUE
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
Wynnefield Library Courtyard

DRAWING TITLE
TREE PROTECTION & DEMOLITION PLAN

PROJECT NO.	DRAWING NO
1914.06	L000
DATE: 02/02/2024	
SCALE: AS SHOWN	
DRAWN BY: LHS/XD	
CHECKED BY: JB/LHS	FILE:

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

MATERIALS LEGEND

- LIMIT OF WORK
- CONCRETE PAVEMENT, REFER TO 1/L500
- SALVAGED FLAGSTONE PAVEMENT, REFER TO 3/L500
- STABLILIZED STONE FINES, REFER TO 2/L500
- ASPHALT PAVEMENT REPAIR
- RAISED GRANITE CURB REFER TO 5/L500
- FLUSH GRANITE CURB
- SALVAGED COBBLESTONE

NOTE: REFER TO 2/L200 PLANTING PLAN FOR PROPOSED TREE LOCATIONS

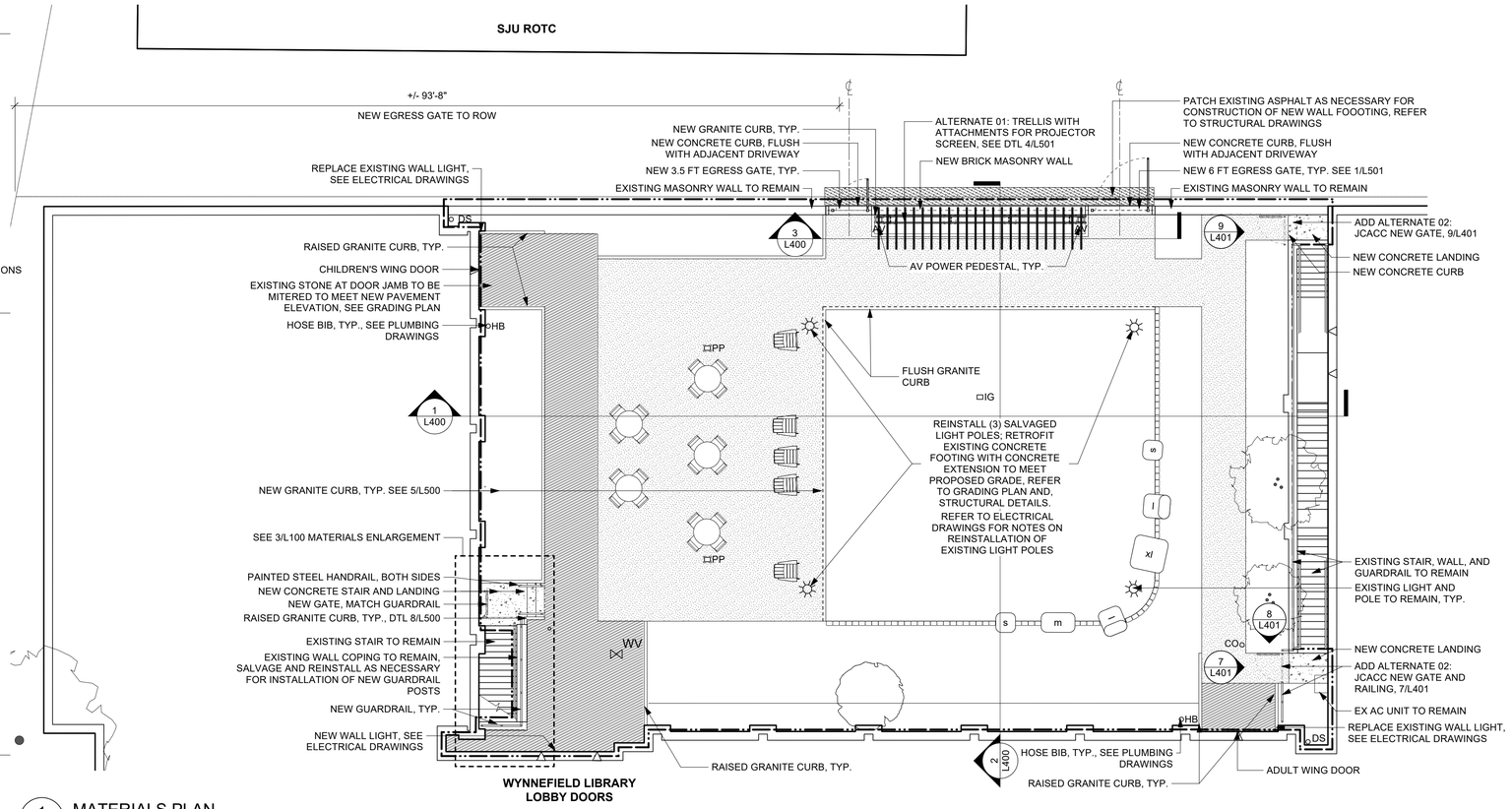
FURNISHING LEGEND

- DINING TABLE & CHAIR
- LOUNGE CHAIR
- xl RIO LARGE
- m RIO MEDIUM
- s RIO SMALL
- l RIO LOUNGE
- PP OUTDOOR CHARGING STATION
- AV OUTDOOR CHARGING STATION WITH AV, SEE ELECTRICAL DRAWINGS
- IG IN GROUND POWER BOX, SEE ELECTRICAL DRAWINGS
- HB HOSE BIB, SEE PLUMBING DRAWINGS
- EXISTING LIGHT POLE SCRAPE AND PAINT, RAISE POLES TO MEET GRADE WHERE NOTED ON PLAN

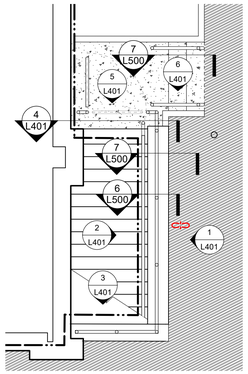
ALTERNATES

ADD ALT 01: WOOD TRELLIS, SEE DTL 4/L501

ADD ALT 02: GATES & RAILING AT JCAC STAIRS, SEE L401



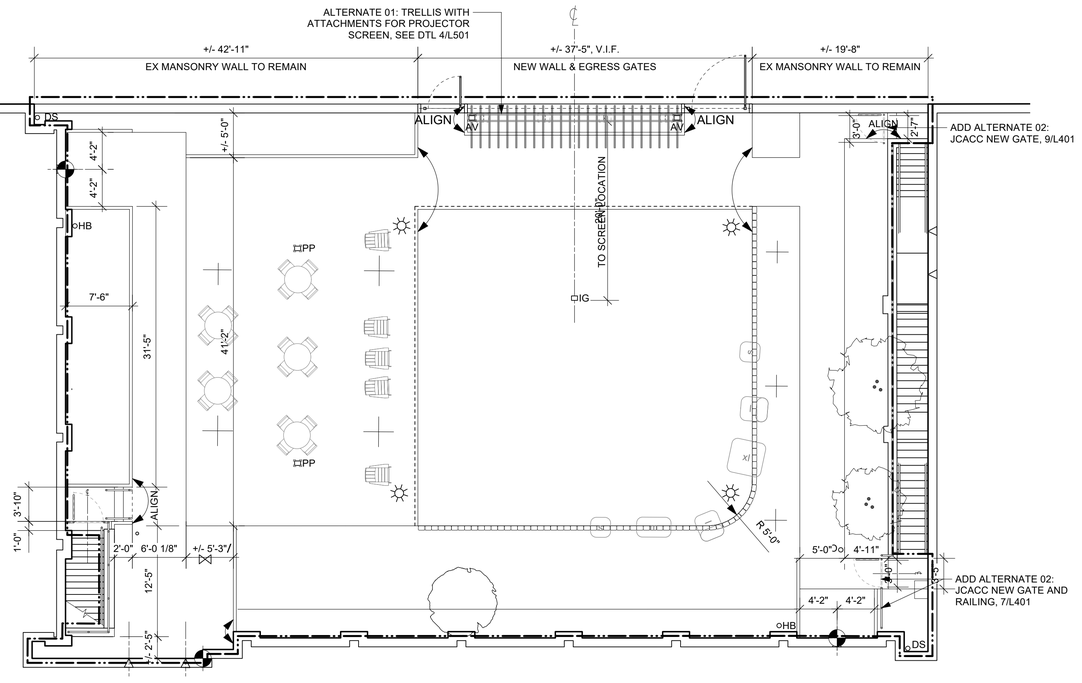
1 L100 MATERIALS PLAN
Scale: 1/8" = 1'-0"



3 L100 MATERIALS PLAN ENLARGEMENT
Scale: 1/4" = 1'-0"

LAYOUT LEGEND

- CENTER LINE
- REFERENCE LINE
- x'-x" LINEAR DIMENSION
- X° ANGULAR DIMENSION
- R x'-x" RADIAL DIMENSION
- P.O.B. POINT OF BEGINNING
- P.O.C. POINT OF CURVATURE
- ALIGN



2 L100 LAYOUT PLAN
Scale: 1/8" = 1'-0"

0 4 8 16 FT

N

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ISSUE	DATE	REVISIONS

CONSTRUCTION DOCUMENT

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WYNNEFIELD BRANCH LIBRARY
5325 OVERBROOK AVENUE
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
Wynnefield Library Courtyard

DRAWING TITLE
MATERIALS & LAYOUT PLANS

PROJECT NO.	DRAWING NO
1914.06	L100
DATE 02/02/2024	
SCALE AS SHOWN	
DRAWN BY LHS/XD	
CHECKED BY JB/LHS	FILE:

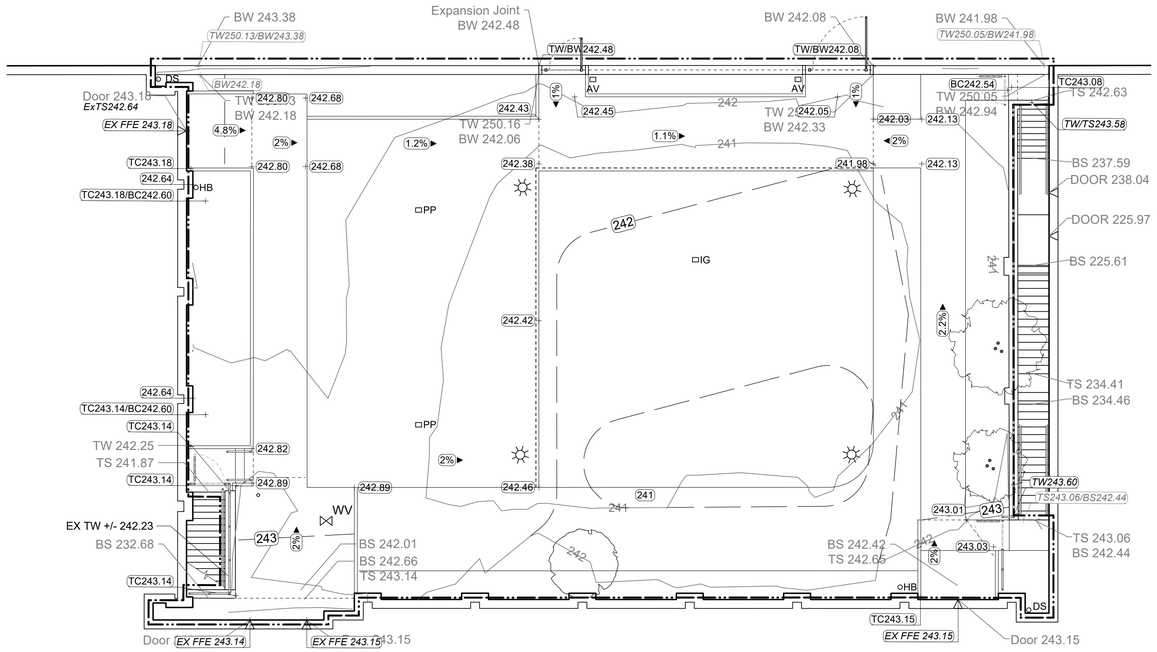
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

GRADING LEGEND

LIMIT OF WORK	
×0.00	EXISTING SPOT ELEVATION
+0.00	PROPOSED SPOT ELEVATION
+TW0.00	TOP OF WALL
+BW0.00	BOTTOM OF WALL
+TW0.00	TOP OF STEP
+BS0.00	BOTTOM OF STEP
+HP0.00	HIGH POINT
◂0.0%	PERCENT SLOPE
0	CONTOUR
V.I.F.	VERIFY IN FIELD

GRADING NOTES

1. ANY DISCREPANCY BETWEEN FIELD CONDITIONS AND DOCUMENTED EXISTING OR PROPOSED CONDITIONS SHALL BE REPORTED TO OWNER IN WRITING.
2. ADJUST EXISTING AND PROPOSED UTILITIES TO MEET FINAL DESIGN CONDITIONS AS NECESSARY.
3. ADJUST TOPS OF ALL MANHOLE LIDS, EXISTING UTILITY STRUCTURES, ETC. TO MEET PROPOSED GRADES.
4. FINISH GRADES OF PAVEMENTS AND SOIL ALONG BOTTOM OF CURBS AND WALLS SHALL HAVE A CONSTANT SLOPE UNLESS INDICATED BY SPOT ELEVATIONS.



1 L200 GRADING PLAN
Scale: 1/8" = 1'-0"

PLANTING LEGEND

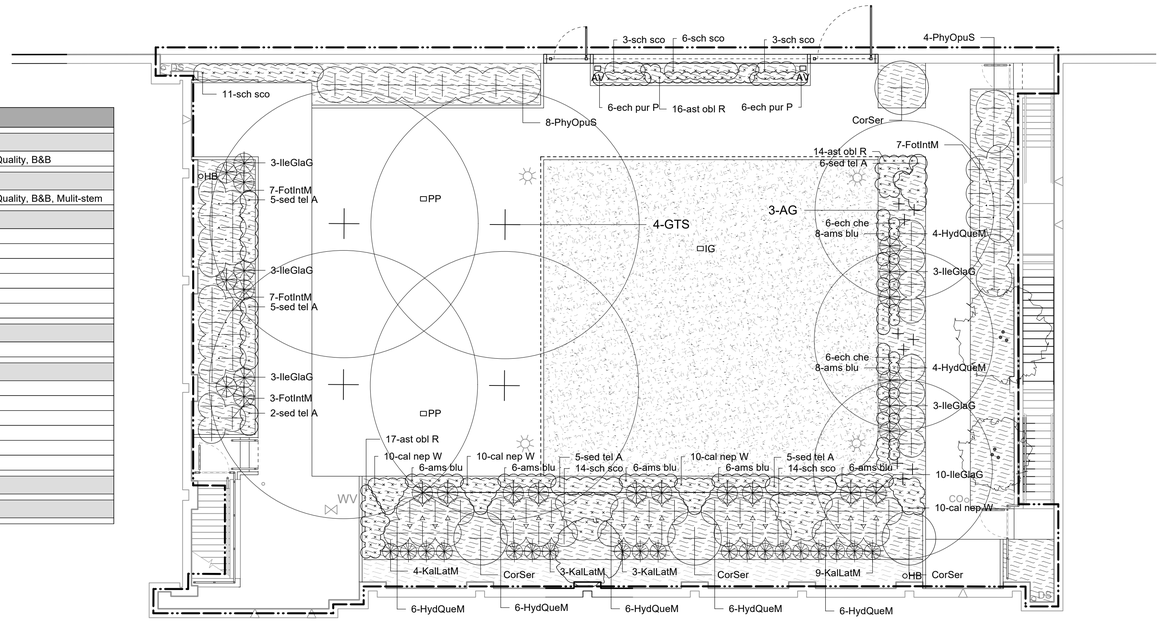
LIMIT OF WORK	
LAWN	
WOOD MULCH	

Qty	Id	*Botanical Name*	Common Name	Size	Spacing	Notes
Canopy Trees						
4	GTS	*Gleditsia triacanthos inermis 'Skyline'*	Skyline Honeylocust	8 - 10 ft. ht.	As Shown	Specimen Quality, B&B
Ornamental Trees						
3	AG	*Acer griseum*	Paperbark Maple	8 - 10 ft. ht.	As Shown	Specimen Quality, B&B, Mulit-stem
Shrubs						
4	CorSer	*Cornus sericea*	Red-Osier Dogwood	#10	As Shown	
24	FotIntM	*Fothergilla x intermedia 'Mount Airy'*	Mount Airy Fothergilla	#3	As Shown	
38	HydQueM	*Hydrangea quercifolia 'Munchkin'*	Munchkin Oakleaf Hydrangea	#5	As Shown	
25	IleGlaG	*Ilex glabra 'Gem Box'*	Inkberry Holly	#3	As Shown	
19	KalLatM	*Kalmia latifolia 'Minuet'*	Mountain Laurel	#5	As Shown	
12	PhyOpuS	*Physocarpus opulifolius 'Seward'*	Seward Ninebark	#5	As Shown	
Ornamental Grasses						
51	sch sco	*Schizachyrium scoparium*	Little Bluestem	#1	12" o.c.	
Perennials						
46	ams blu	*Amsonia 'Blue Ice'*	Blue Star Flower	#1	12" o.c.	
47	ast obl R	*Aster oblongifolius 'Raydon's Favorite'*	Raydon's Favorite Aromatic Aster	#1	12" o.c.	
40	cal nep W	*Calamintha nepeta ssp. gladulosa 'White Cloud'*	White Cloud Catmint	#1	12" o.c.	
12	ech che	*Echinacea 'Cheyenne Spirit'*	Cheyenne Spirit Coneflower	#1	12" o.c.	
12	ech pur P	*Echinacea purpurea 'PowWow Wild Berry'*	Coneflower	#1	12" o.c.	
28	sed tel A	*Sedum telphinum 'Autumn Joy'*	Stonecrop	#1	12" o.c.	
Vines						
Bulbs						

NOTES:
1. PROVIDE ALL PLANT SPECIES AND QUANTITIES AS SHOWN ON PLAN. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCY BETWEEN PLANT SPECIES AND QUANTITIES SHOWN ON PLAN AND LISTED IN SCHEDULE.

2. PROVIDE PLANTING SOIL IN ALL AREAS SHOWN ON DRAWINGS AS PLANT BEDS OR LAWN.

3. EXISTING SITE SOIL FROM LAWN AREA MAY BE AMENDED AND REUSED AS PLANTING SOIL AS LONG AS IT MEETS SPECIFICATION REQUIREMENTS FOR PLANTING SOIL. SUBMIT TEST REPORTS AS INDICATED IN SPECIFICATION 329100



2 L200 PLANTING PLAN
Scale: 1/8" = 1'-0"

0 4 8 16 FT

N

REVISIONS		
ISSUE	DATE	REVISIONS

PHILADELPHIA MANETO

CONSTRUCTION DOCUMENT

SEALS

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CITY OF PHILADELPHIA
WYNNEFIELD BRANCH LIBRARY
5325 OVERBROOK AVENUE
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
Wynnefield Library Courtyard

DRAWING TITLE
GRADING & PLANTING PLANS

PROJECT NO. 1914.06	DRAWING NO L200
DATE 02/02/2024	
SCALE AS SHOWN	
DRAWN BY LHS/XD	
CHECKED BY JB/LHS	FILE:

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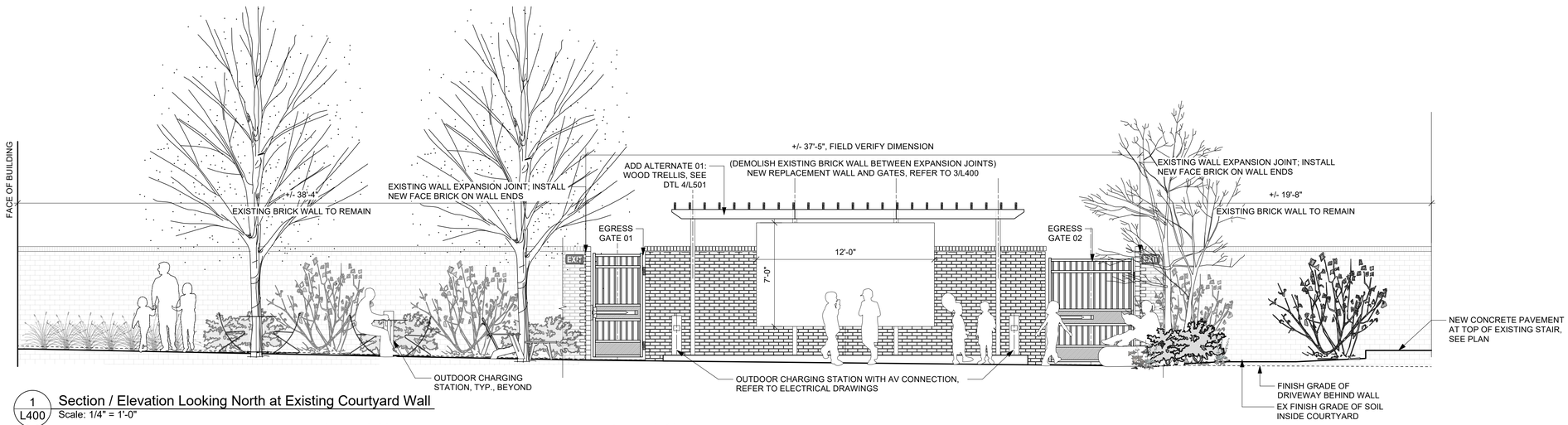
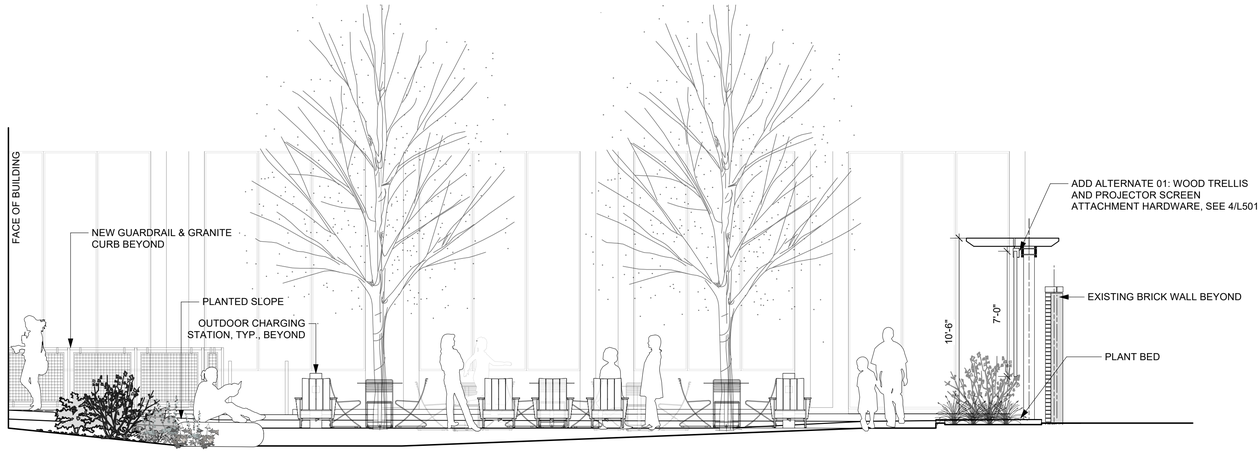
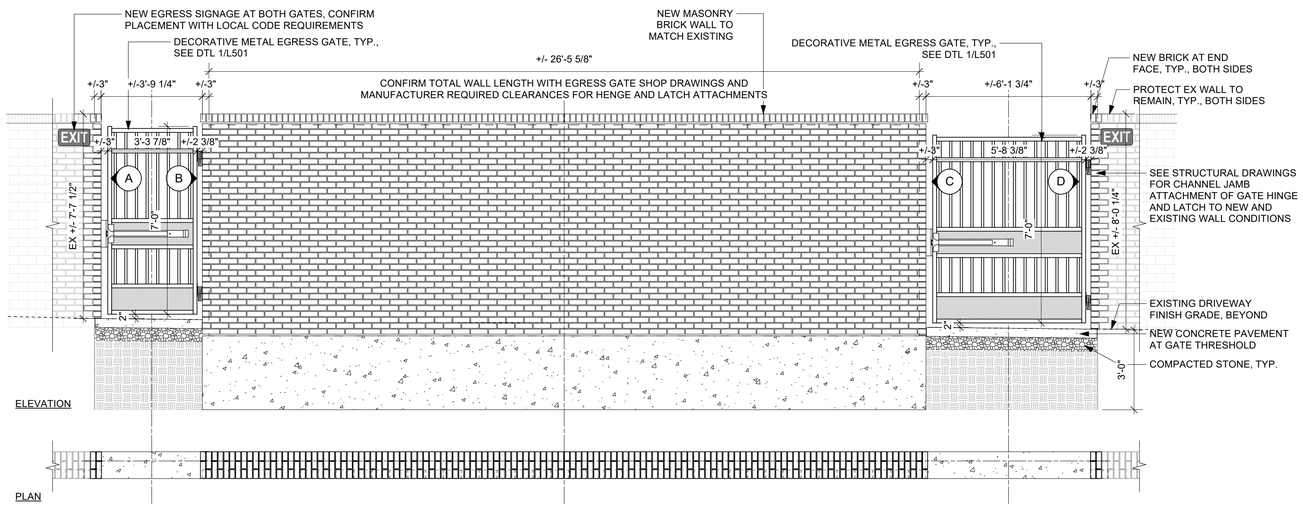


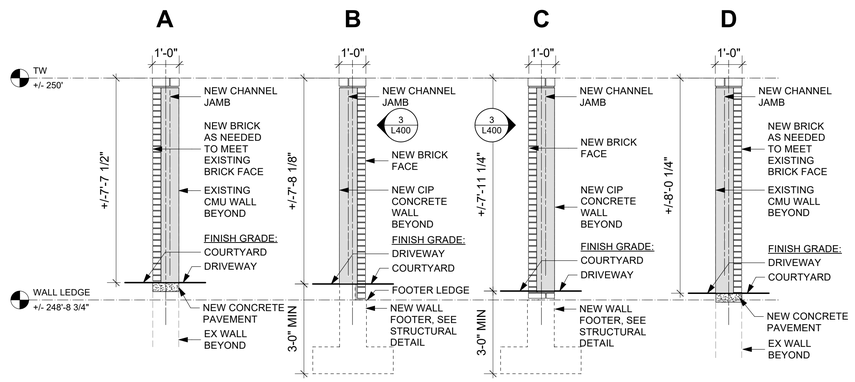
1 / L400 Section / Elevation Looking North at Existing Courtyard Wall
Scale: 1/4" = 1'-0"



2 / L400 Section / Elevation Looking West at Children's Wing
Scale: 1/4" = 1'-0"



3 / L400 NEW REPLACEMENT WALL - BRICK MASONRY TO MATCH EXISTING
Scale: 3/8" = 1'-0"



4 / L400 BRICK WALL - END ELEVATIONS
Scale: 3/8" = 1'-0"

REVISIONS

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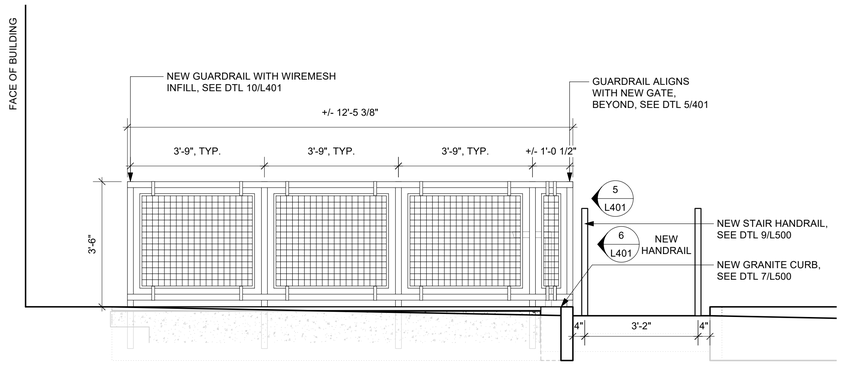
CITY OF PHILADELPHIA
WYNNEFIELD BRANCH LIBRARY
5325 OVERBROOK AVENUE
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
Wynnefield Library Courtyard

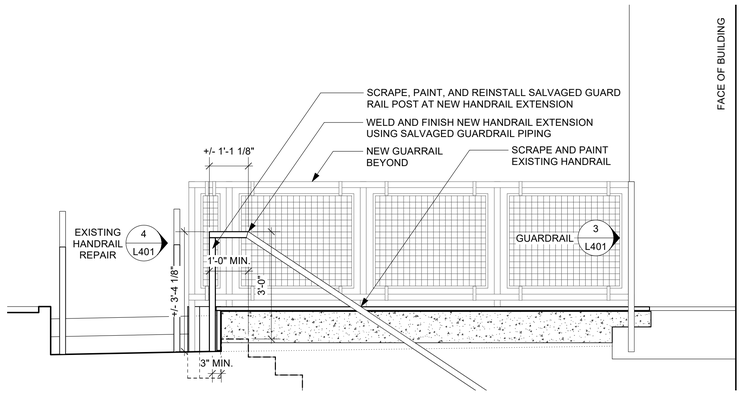
DRAWING TITLE
SECTIONS

PROJECT NO.	DRAWING NO
1914.06	L400
DATE 02/02/2024	
SCALE AS SHOWN	
DRAWN BY LHS/XD	
CHECKED BY JB/LHS	FILE:

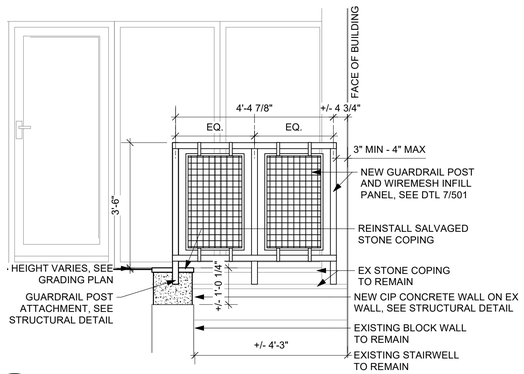
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK



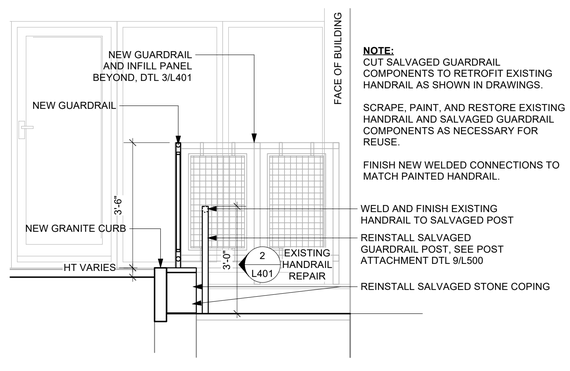
1 L401 **LIBRARY GUARDRAIL ELEVATION**
Scale: 1/2" = 1'-0"



2 L401 **LIBRARY HANDRAIL REPAIR ELEVATION**
Scale: 1/2" = 1'-0"



3 L401 **LIBRARY GUARDRAIL ELEVATION**
Scale: 1/2" = 1'-0"

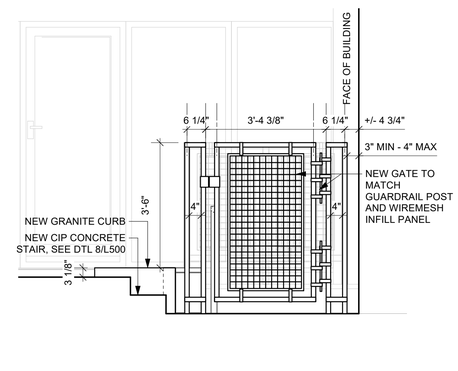


NOTE:
CUT SALVAGED GUARDRAIL COMPONENTS TO RETROFIT EXISTING HANDRAIL AS SHOWN IN DRAWINGS.

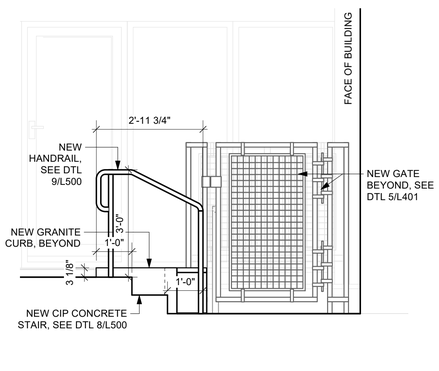
SCRAPE, PAINT, AND RESTORE EXISTING HANDRAIL AND SALVAGED GUARDRAIL COMPONENTS AS NECESSARY FOR REUSE.

FINISH NEW WELDED CONNECTIONS TO MATCH PAINTED HANDRAIL.

4 L401 **LIBRARY HANDRAIL REPAIR SECTION**
Scale: 1/2" = 1'-0"

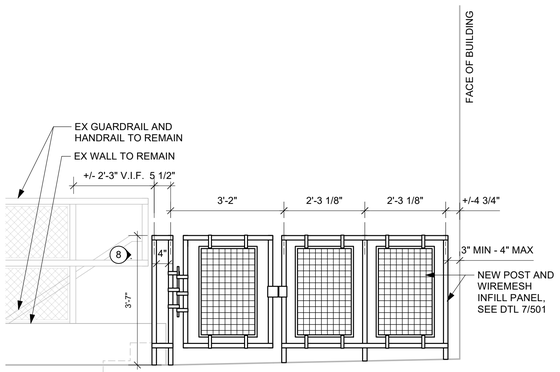


5 L401 **LIBRARY GATE ELEVATION**
Scale: 1/2" = 1'-0"

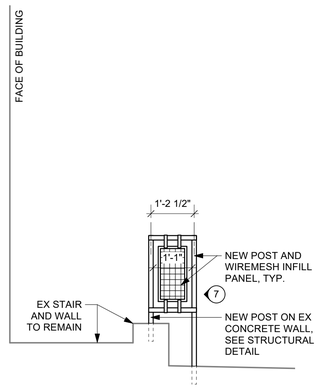


6 L401 **NEW HANDRAIL ELEVATION**
Scale: 1/2" = 1'-0"

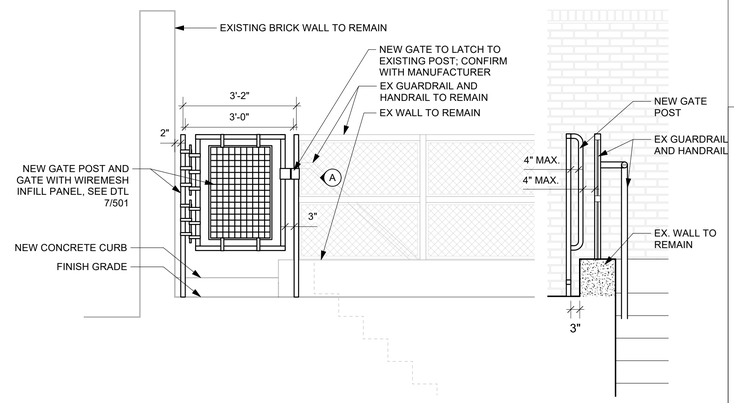
ADD ALTERNATE 02: SAFETY GATES AT JOHN C. ANDERSON CULTURAL CENTER STAIRS



7 L401 **JCAC SOUTH GATE ELEVATION**
Scale: 1/2" = 1'-0"



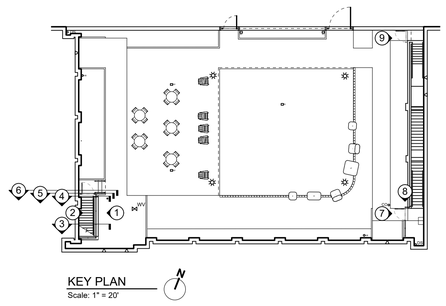
8 L401 **JCAC SOUTH GATE ELEVATION**
Scale: 1/2" = 1'-0"



9 L401 **JCAC NORTH GATE ELEVATION**
Scale: 1/2" = 1'-0"

10 L401 **STAIR GATE & GUARDRAIL DETAIL, TYP.**
Scale: 3/4" = 1'-0"

ELEVATION A



KEY PLAN
Scale: 1" = 20'

REVISIONS		
ISSUE	DATE	REVISIONS

CONSTRUCTION DOCUMENT

SEALS

LANDSCAPE ARCHITECT:
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DRAWING TITLE
GATE AND GUARDRAIL SECTIONS

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1914.06	L401
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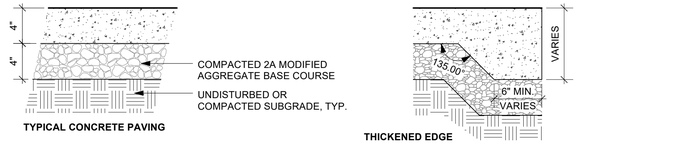
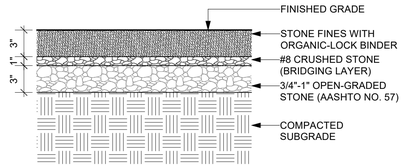
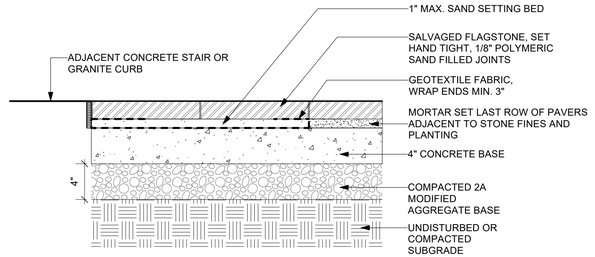


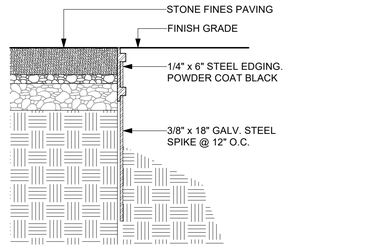
1 L500 CONCRETE PAVEMENT
Scale: 1" = 1'-0"



2 L500 STABILIZED STONE FINES PAVEMENT
Scale: 1 1/2" = 1'-0"

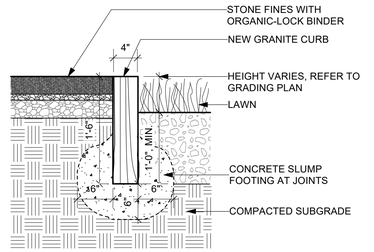


3 L500 SALVAGED FLAGSTONE PAVEMENT
Scale: 1 1/2" = 1'-0"

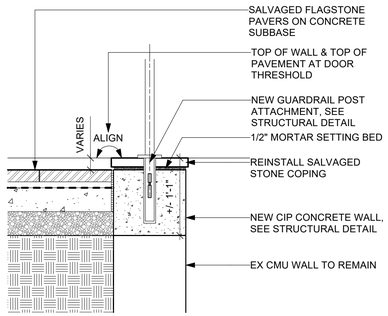


NOTE:
1. CONTRACTOR TO USE PREFABRICATED 90° CORNER CONNECTIONS AND SPLICE CONNECTIONS WHERE REQUIRED.
2. USE CONTINUOUS LENGTH TO THE EXTENT POSSIBLE TO MINIMIZE SPLICES.

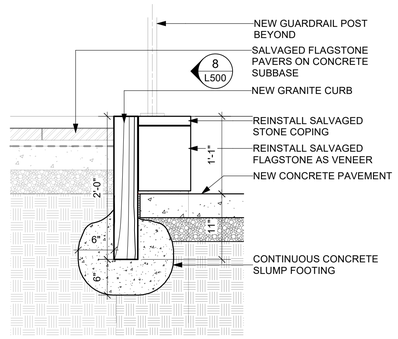
4 L500 METAL EDGING AT STONE FINES
Scale: 1 1/2" = 1'-0"



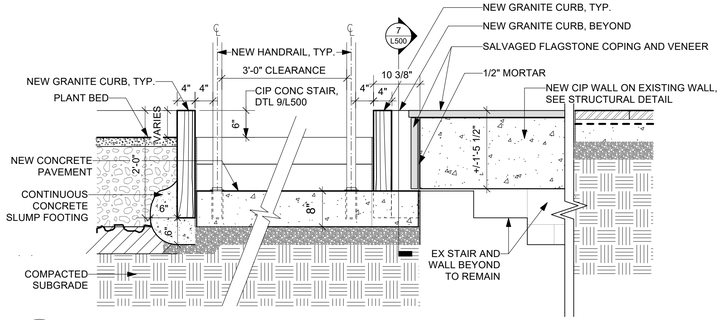
5 L500 GRANITE CURB AT STONE FINES
Scale: 1" = 1'-0"



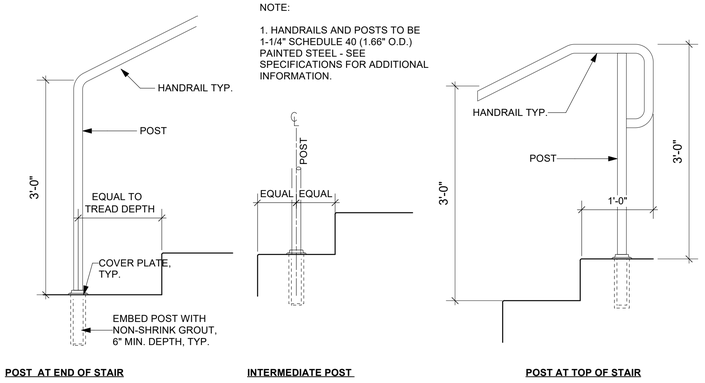
6 L500 NEW GUARDRAIL WALL TOP
Scale: 1" = 1'-0"



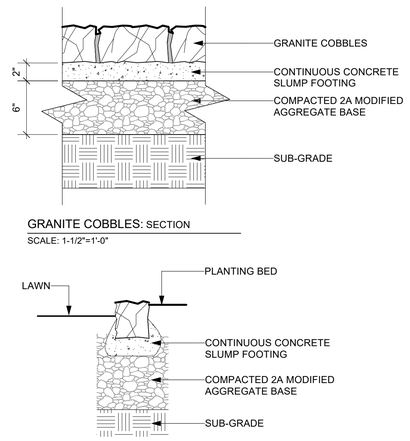
7 L500 NEW GRANITE CURB AT STAIR
Scale: 1" = 1'-0"



8 L500 GRANITE CURB AT CONCRETE STAIR
Scale: 3/4" = 1'-0"

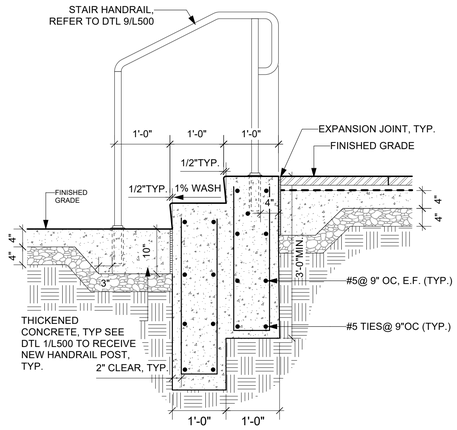


9 L500 STAIR HANDRAIL DETAIL, TYP.
Scale: 1" = 1'-0"



GRANITE COBBLES: SECTION
SCALE: 1-1/2"=1'-0"

10 L500 SALVAGED COBBLESTONE DETAIL
Scale: 1 1/2" = 1'-0"



11 L500 RIENFORCED CIP STAIR
Scale: 3/4" = 1'-0"

REVISIONS

ISSUE	DATE	REVISIONS

PHILADELPHIA MANETO

CONSTRUCTION DOCUMENT

SEALS

PENNSYLVANIA ANTHONY BOSCIA REGISTERED LANDSCAPE ARCHITECT REGISTRATION #LA001676E

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Ground Reconsidered
915 Spring Garden Street, Suite 403
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SITE DETAILS

PROJECT NO.	DRAWING NO
1914.06	L500
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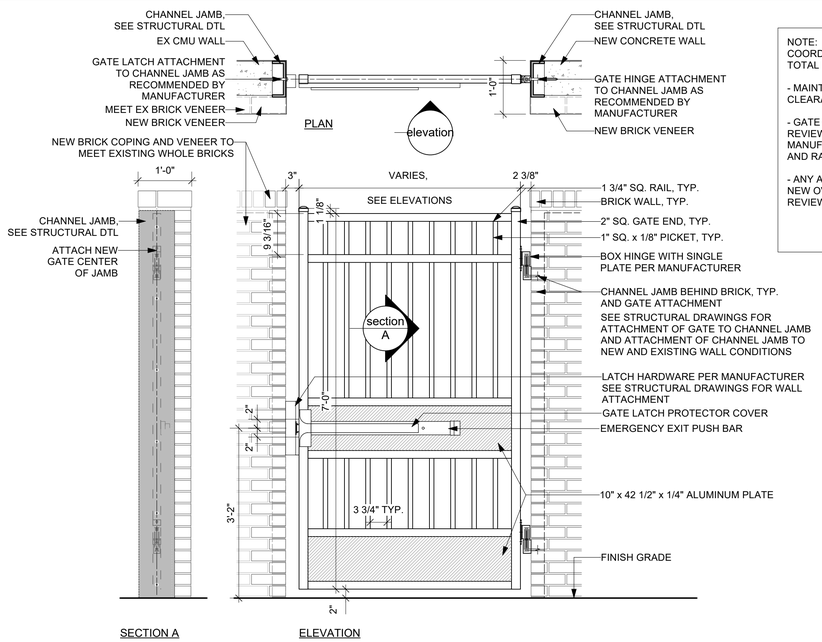


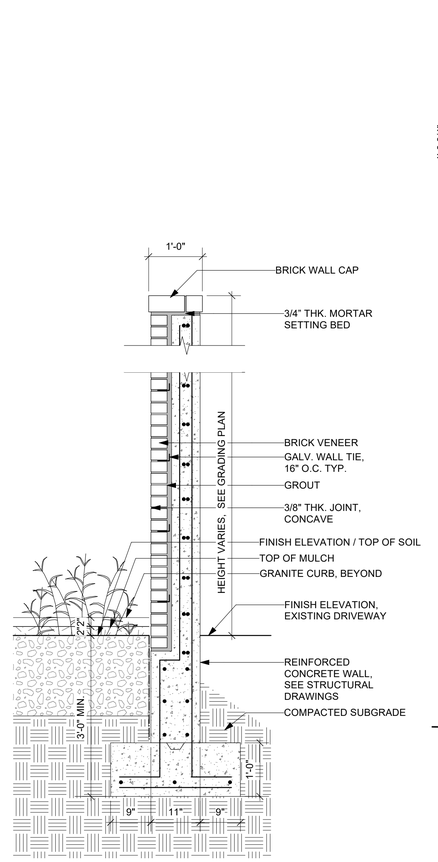
NOTE:
COORDINATE APPROVED GATE DESIGN WITH TOTAL BRICK WALL LENGTH.

- MAINTAIN REQUIRED MIN/MAX CLEARANCES AT LATCH AND HINGE.

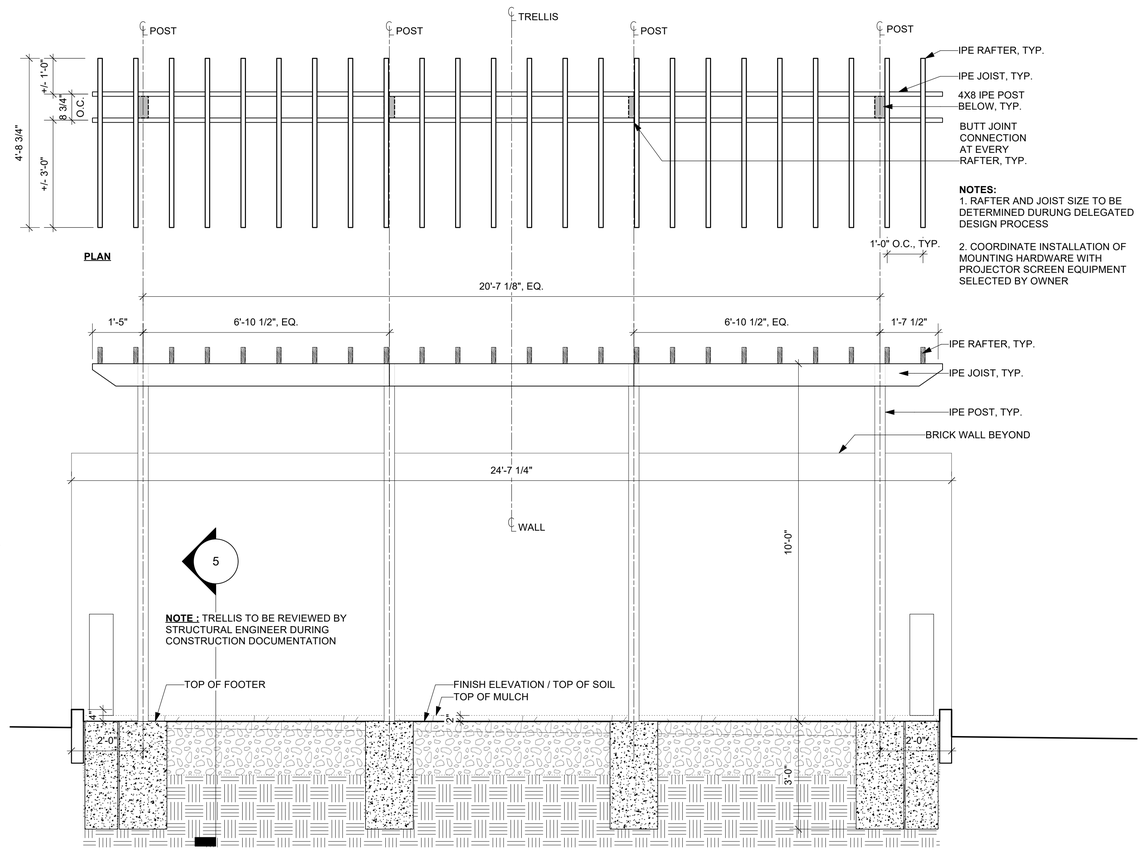
- GATE COMPONENTS SHOWN TO BE REVIEWED AND CONFIRMED BY GATE MANUFACTURER (INCLUDING POST, PICKET, AND RAIL SIZES).

- ANY ADJUSTED DIMENSIONS WILL IMPACT NEW OVERALL WALL LENGTH, TO BE REVIEWED VIA SHOP DRAWINGS.

1 / L501 EGRESS GATE, TYP.
Scale: 3/4" = 1'-0"



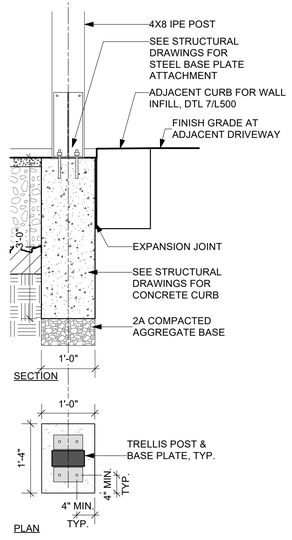
3 / L501 NEW BRICK WALL
Scale: 3/4" = 1'-0"



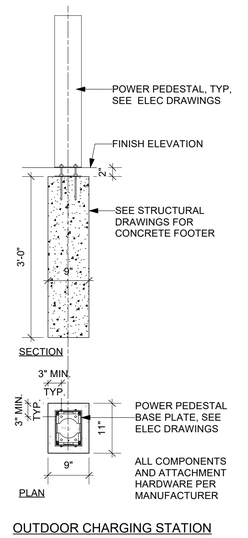
NOTES:
1. RAFTER AND JOIST SIZE TO BE DETERMINED DURUNG DELEGATED DESIGN PROCESS

2. COORDINATE INSTALLATION OF MOUNTING HARDWARE WITH PROJECTOR SCREEN EQUIPMENT SELECTED BY OWNER

4 / L501 ADD ALTERNATE 01: WOOD TRELLIS
Scale: 1/2" = 1'-0"



5 / L501 TRELLIS ATTACHMENT
Scale: 3/4" = 1'-0"



OUTDOOR CHARGING STATION

6 / L501 PEDESTAL ATTACHMENT, TYP.
Scale: 3/4" = 1'-0"

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CHECKED BY JB/LHS	FILE:

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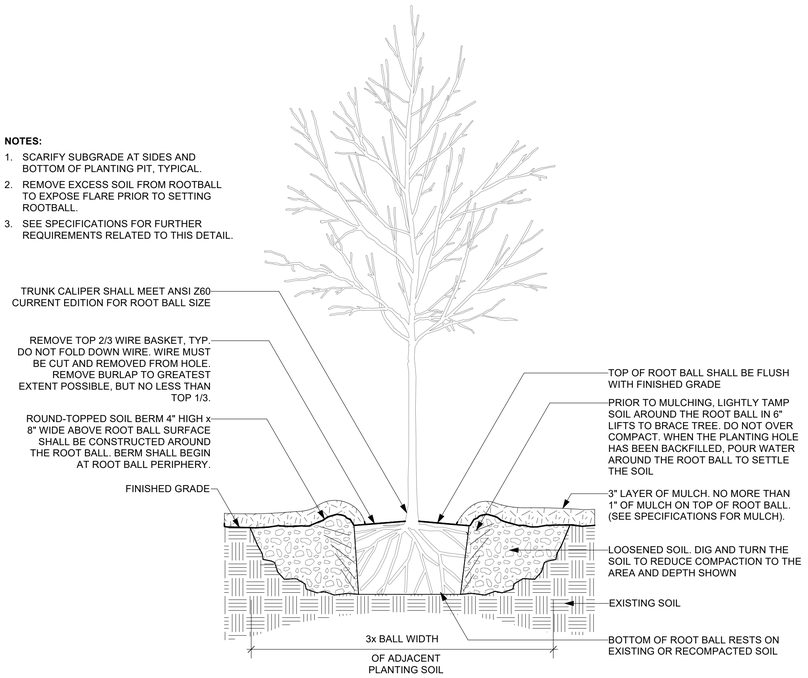
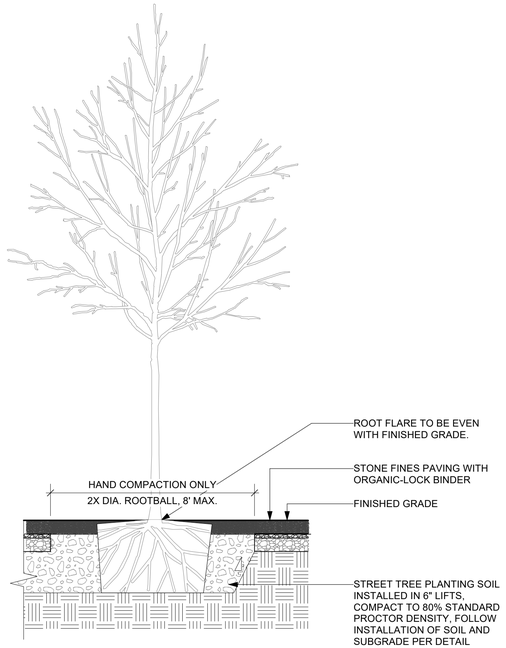
NOTES:

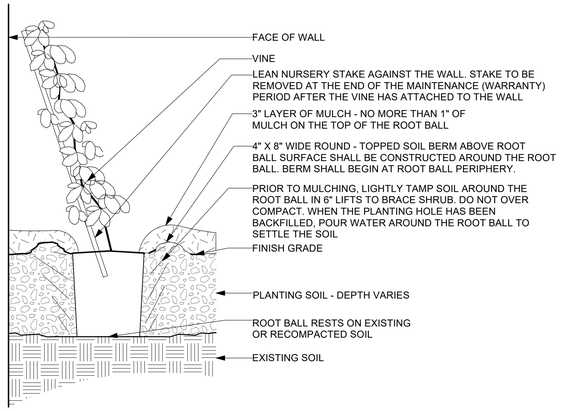
1. SCARIFY SUBGRADE AT SIDES AND BOTTOM OF PLANTING PIT, TYPICAL.
2. REMOVE EXCESS SOIL FROM ROOTBALL TO EXPOSE FLARE PRIOR TO SETTING ROOTBALL.
3. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.



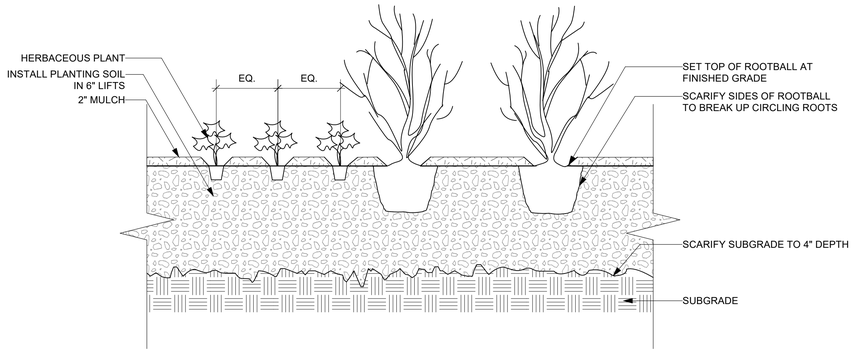
1 L502 TREE PLANTING
Scale: 3/4" = 1'-0"



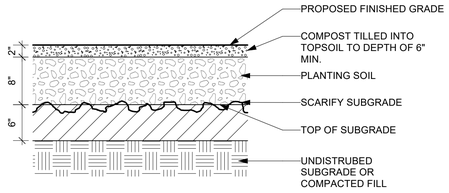
2 L502 TREE PLANTING IN STABLIZED STONE FINES
Scale: 3/4" = 1'-0"



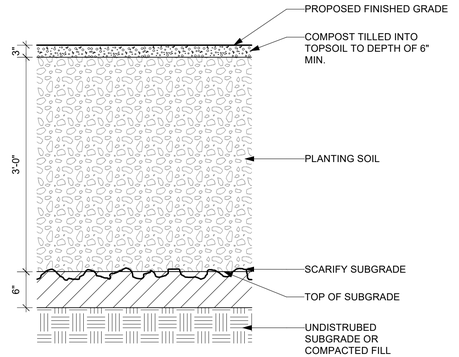
3 L502 VINE PLANTING
Scale: 1" = 1'-0"



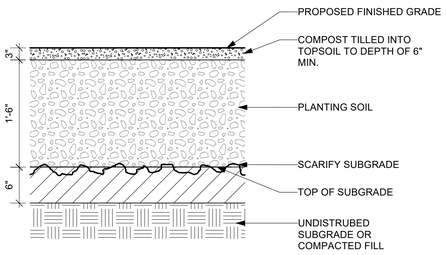
4 L502 SHRUB/ HERBACEOUS PLANTING
Scale: 3/4" = 1'-0"



5 L502 LAWN PLANTING
Scale: 1" = 1'-0"



6 L502 SOIL PROFILE - TREE
Scale: 1" = 1'-0"



7 L502 SOIL PROFILE - PLANT BED
Scale: 1" = 1'-0"

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PART 1 - DESIGN CRITERIA / GENERAL REQUIREMENTS

1.1 DESIGN CRITERIA

A. BUILDING CODE: PHILADELPHIA BUILDING CODE, 2018 EDITION
(ICC INTERNATIONAL BUILDING CODE, 2018 EDITION)

B. BUILDING RISK CATEGORY: II

C. GRAVITY DESIGN LOADS:
1. DEAD LOAD: MATERIAL SELF-WEIGHT.
2. ROOF LIVE LOAD:
a. UNIFORM LIVE LOAD: 20 PSF
b. SNOW LOAD:
GROUND SNOW LOAD, PG: 25 PSF
FLAT ROOF SNOW LOAD, PF: 22 PSF
DRIFT LOAD: AS SPECIFIED BY THE REFERENCED BUILDING CODE FOR EACH INDIVIDUAL SITUATION.
SNOW EXPOSURE FACTOR, CE: 1.0
SNOW IMPORTANCE FACTOR, IS: 1.1
SNOW THERMAL FACTOR, CT: 1.0
3. UNIFORM FLOOR LIVE LOADS:
STAIRS: 100 PSF
STAGES AND PLATFORMS: 60 PSF
4. CONCENTRATED FLOOR LIVE LOADS:
a. LOADS ARE DISTRIBUTED OVER AN AREA OF 2-1/2 SQ. FT., UNLESS NOTED OTHERWISE.
STAIRS: 300 LB. (OVER 4 SQ. IN.)
5. CONCENTRATED LATERAL LIVE LOADS
a. HANDRAILS ASSEMBLIES:
TOP RAIL: 200 LB. OR 50 LB/FT APPLIED NON-CONCURRENTLY IN ANY DIRECTION.
INFILL: 50 LB. APPLIED OVER 1 SQ. FT. APPLIED NON-CONCURRENTLY WITH THE TOP RAIL LOAD.

D. LATERAL LOADS:
1. WIND LOAD:
a. BASIC WIND SPEED, V: 130 MPH
b. WIND IMPORTANCE FACTOR, IW: 1.0
c. RISK CATEGORY: III
d. WIND DIRECTIONALITY FACTOR, KD: 0.85
e. WIND TOPOGRAPHIC FACTOR, KZT: 1.0
f. WIND EXPOSURE CATEGORY: B
g. GUST - EFFECT FACTOR, GF: 0.85
h. INTERNAL PRESSURE COEFFICIENT: +/- 0.18
2. SEISMIC LOAD:
a. SEISMIC IMPORTANCE FACTOR, IE: 1.00
b. SEISMIC RISK CATEGORY: III
c. SEISMIC DESIGN CATEGORY: B
d. SS = 0.18g S1 = 0.047g
e. SITE CLASS: D
f. SDS = 0.192g SD1 = 0.075g
g. LONG - PERIOD TRANSITION PERIOD, TL: 6 SEC
h. SEISMIC RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
i. RESPONSE MODIFICATION FACTOR, R: 3
j. SYSTEM OVERSTRENGTH FACTOR, OMEGA: 3
k. DEFLECTION AMPLIFICATION FACTOR, CD: 3
l. BASE SHEAR, V = 72.9 KIPS
CS = 0.028
m. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

1.2 GENERAL REQUIREMENTS

A. CONSTRUCTION MEANS AND METHODS
1. CONTRACTOR AGREES THAT CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD DAVID MASON & ASSOCIATES HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DAVID MASON & ASSOCIATES.
2. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE NEW AND EXISTING STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, EARTH RETENTION SYSTEMS, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK. OBSERVATION VISITS TO THE SITE BY DAVID MASON & ASSOCIATES SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
3. THE CONTRACT DOCUMENTS DO NOT ACCOUNT FOR THE EFFECTS OF THERMAL MOVEMENT OF STRUCTURAL ELEMENTS DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSIDERING THE IMPACT OF THERMAL MOVEMENTS DURING CONSTRUCTION. EXPANSION JOINTS INDICATED ON THE CONTRACT DOCUMENTS ARE LOCATED AND DIMENSIONED AS REQUIRED FOR THE COMPLETED STRUCTURE.
4. DAVID MASON & ASSOCIATES SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ANY CONSTRUCTION ACTIVITIES, SINCE THESE ARE SOLELY CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT.
5. DAVID MASON & ASSOCIATES SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S SCHEDULE OR FAILURES TO CARRY OUT ANY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. DAVID MASON & ASSOCIATES SHALL NOT HAVE CONTROL OVER OR CHARGE OF ACTIONS OF CONTRACTOR, SUBCONTRACTOR, OR ANY OF THEIR AGENTS, OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING PORTIONS OF ANY CONSTRUCTION ACTIVITIES.
6. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED AND PROVIDED BY CONTRACTOR.
7. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

B. EXISTING CONDITIONS
1. CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AS REQUIRED TO BID AND COMPLETE THE WORK.
2. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION. ANY EXISTING DIMENSIONS AND ELEVATIONS SHOWN ON THE CONTRACT DOCUMENTS ARE NOT AS-BUILT DIMENSIONS, BUT WERE OBTAINED FROM THE ORIGINAL STRUCTURAL DRAWINGS OR OTHER DRAWINGS AND DOCUMENTS MADE AVAILABLE BY THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND MEMBER SIZES AS REQUIRED PRIOR TO BEGINNING FABRICATION, CONSTRUCTION, ETC.
3. ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE WORK. IF EXISTING CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY AND PROVIDE AN ACCURATE SKETCH OF THE ACTUAL CONDITION FOR REVIEW.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY REMOVAL AND REPLACEMENT / RELOCATION OF ANY NON-STRUCTURAL ELEMENTS NECESSARY TO COMPLETE THE STRUCTURAL WORK. FOLLOW ALL APPLICABLE CODES, SPECIFICATIONS, AND REQUIREMENTS OF AFFECTED TRADES. CONSIDERATION OF THIS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.

C. SUBMITTALS
1. SUBMITTALS PREPARED BY SUBCONTRACTORS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO ARCHITECT.
2. REPRODUCTION OF THE CONTRACT DOCUMENTS FOR SHOP DRAWINGS IS NOT PERMITTED. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO CONTRACTOR.
3. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED EQUIPMENT WEIGHTS, OPENING SIZES, AND LOCATIONS INDICATED ON THE STRUCTURAL DRAWINGS WITH DOCUMENTS FROM OTHER DISCIPLINES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING SIZE, METHOD OF ANCHORAGE, WEIGHT, OPENINGS, AND LOCATIONS OF EQUIPMENT NOT INDICATED ON THE STRUCTURAL DRAWINGS PRIOR TO ORDERING FOR REVIEW BY DAVID MASON & ASSOCIATES TO DETERMINE ADEQUACY OF THE STRUCTURE.
5. ALL SUBMITTALS REVIEWED BY DAVID MASON & ASSOCIATES ARE REVIEWED FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. ANY ACTION INDICATED IS SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CORRELATING AND CONFIRMING DIMENSIONS AT THE JOB SITE, CHOICE OF FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, AND COORDINATION OF THE WORK WITH THAT OF OTHER TRADES.

D. QUALITY REQUIREMENTS
1. REFERENCE TO STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED.
2. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION.
3. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION OR CODE, WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS, SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, ARCHITECT, DAVID MASON & ASSOCIATES, CONTRACTOR, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO DAVID MASON & ASSOCIATES OR ANY OF DAVID MASON & ASSOCIATES' CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
4. STRUCTURAL DOCUMENTS ARE BEING RELEASED PRIOR TO DOCUMENTS OF OTHER DISCIPLINES. CONTRACTOR SHALL COORDINATE STRUCTURAL DOCUMENTS WITH OTHER PORTIONS OF THE CONTRACT DOCUMENTS AS THEY ARE RELEASED. REPORT ANY DISCREPANCY OR OMISSION TO ARCHITECT.
5. ALL OMISSIONS AND CONFLICTS WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
6. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR A WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
7. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN THE CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
8. STRUCTURAL DOCUMENTS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS DURING SHOP DRAWINGS AND INCORPORATING INTO THE WORK.
9. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
10. SEE DOCUMENTS BY OTHER DISCIPLINES FOR FLOOR, WALL, AND ROOF OPENINGS, TRENCHES, PITS, PIPE SLEEVES, EQUIPMENT PADS, METAL PAN STAIRS, MISCELLANEOUS IRON, ETC.
11. NO PIPES, DUCTS, CHASES, ETC. SHALL BE PLACED IN STRUCTURAL BEAM AND COLUMN MEMBERS NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC., UNLESS NOTED OTHERWISE. NOTIFY DAVID MASON & ASSOCIATES WHEN DOCUMENTS BY OTHER DISCIPLINES SHOW OPENINGS, POCKETS, ETC. NOT INDICATED IN THE STRUCTURAL DRAWINGS, BUT ARE LOCATED IN STRUCTURAL MEMBERS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM DAVID MASON & ASSOCIATES FOR INSTALLATION OF SUCH PIPES, DUCTS, CHASES, ETC.
12. NO CHANGE IN SIZE OF DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
13. OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
14. VERIFY ELEVATOR PIT DIMENSIONS, LOCATIONS, LOADINGS AND DETAILS WITH SUPPLIERS PRIOR TO THE FABRICATION AND/OR INSTALLATION OF ANY MATERIAL.
15. UNLESS OTHERWISE NOTED, FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIREPROOFING METHODS AND MATERIALS.
16. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED. WHERE A DETAIL IS NOT INDICATED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR CONDITIONS

E. CONTRACTOR'S DELEGATED DESIGN
1. CONTRACTOR DESIGNED ELEMENTS SHALL BE DESIGNED BY LICENSED PROFESSIONAL ENGINEERS REGISTERED IN THE COMMONWEALTH OF PENNSYLVANIA. FOR PERMANENT BUILDING COMPONENTS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, SUPPORT REACTIONS, AND CERTIFICATION THAT ELEMENTS WERE DESIGNED FOR LOADS SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE BUILDING CODE. ALL DOCUMENTS NOTED SHALL BE SEALED BY THE LICENSED ENGINEER. IF CRITERIA INDICATED ARE NOT SUFFICIENT, SUBMIT A WRITTEN REQUEST FOR ADDITIONAL INFORMATION TO ARCHITECT. THE FOLLOWING ELEMENTS AND THEIR CONNECTIONS SHALL BE CONTRACTOR DESIGNED:
a. TEMPORARY BRACING AND SHORING
b. EARTH RETENTION SYSTEMS NECESSARY FOR SAFE EXCAVATION
c. STRUCTURAL STEEL CONNECTIONS
d. OPEN WEB STEEL JOISTS AND JOIST GIRDERS
e. SUPPORT, ANCHORAGE AND LATERAL BRACING OF MECHANICAL EQUIPMENT AND MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEM COMPONENTS
2. THE CONTRACTOR'S BID SHALL INCLUDE A LIST OF THE PROFESSIONAL ENGINEERS TO BE RESPONSIBLE FOR EACH DELEGATED DESIGN.
3. THE SUCCESSFUL CONTRACTOR SHALL SUBMIT A LIST OF THE PROFESSIONAL ENGINEERS TO THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE WORK.

1.3 SPECIAL INSPECTIONS

A. THE OWNER WILL EMPLOY THE SERVICE OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE ITEMS LISTED IN THE SPECIAL INSPECTION REQUIREMENTS TABLES OF THE APPLICABLE BUILDING CODE.
B. SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO BUILDING OFFICIAL, OWNER, ARCHITECT, DAVID MASON & ASSOCIATES, AND CONTRACTOR. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR, AND IF NOT CORRECTED, SHALL BE REPORTED TO BUILDING OFFICIAL, OWNER, ARCHITECT, AND DAVID MASON & ASSOCIATES.
C. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL OF RECORD, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
D. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
1. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE, OR WAVE ANY OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE REGISTERED DESIGN PROFESSIONAL OF RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF NOT CORRECTED, THE SPECIAL INSPECTOR SHALL SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE REGISTERED DESIGN PROFESSIONAL OF RECORD, UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.
3. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL, SIGNED REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.
E. THE TESTING LABORATORY PROVIDING SERVICES FOR THE OWNER SHALL PROVIDE SPECIAL INSPECTION SERVICES ACCORDING TO THE SPECIAL INSPECTION REQUIREMENTS TABLES OF THE APPLICABLE BUILDING CODE. THESE CODE REQUIRED INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS AND TESTS DEFINED IN THE PROJECT SPECIFICATIONS. TYPES OF WORK WHICH REQUIRE SPECIAL INSPECTIONS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: (REFER TO THE BUILDING CODE AND SPECIFICATIONS FOR DETAILED INSPECTION REQUIREMENTS.)
1. PREPARED FILL
2. SOIL BEARING CAPACITY
3. CONCRETE CONSTRUCTION
4. STEEL CONSTRUCTION
5. COLD FORMED METAL FRAMING
6. MASONRY CONSTRUCTION
F. INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK, UNLESS OTHERWISE SPECIFIED. WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE OBSERVED BY ONE INSPECTOR, IT IS THE INSPECTION AGENCY'S RESPONSIBILITY TO EMPLOY A SUFFICIENT NUMBER OF SPECIAL INSPECTORS TO ASSURE THAT ALL THE WORK IS INSPECTED IN ACCORDANCE WITH THE PROVISIONS OF THE BUILDING CODE.
G. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.
H. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A CITY INSPECTOR.
I. SPECIALLY INSPECTED WORK THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY OR SPECIAL INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE AT NO COST TO THE OWNER.

PART 2 - FOUNDATIONS

2.1 GENERAL

A. FOUNDATION DESIGN IS BASED UPON RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY GZA GEOENVIRONMENTAL, INC. DATED FEBRUARY, 2021. THE ON-SITE GEOTECHNICAL REPRESENTATIVE SHALL OBSERVE AND CERTIFY THE BEARING MEDIUM FOR ALL FOUNDATIONS. ANY UNUSUAL CONDITIONS OR INADEQUATE BEARING CONDITIONS SHALL BE REPORTED TO DAVID MASON & ASSOCIATES.
B. FOUNDATION DESIGN IS BASED UPON A PRESUMED BEARING VALUE. THE ON-SITE GEOTECHNICAL REPRESENTATIVE SHALL OBSERVE AND CERTIFY THE BEARING MEDIUM FOR ALL FOUNDATIONS. ANY UNUSUAL CONDITIONS OR INADEQUATE BEARING CONDITIONS SHALL BE REPORTED TO DAVID MASON & ASSOCIATES.
C. RECOMMENDATIONS CONTAINED WITHIN THE GEOTECHNICAL REPORT ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS UNLESS SPECIFICALLY MODIFIED HEREIN.
D. EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER.
E. ALL SOIL SURROUNDING AND UNDER FOOTINGS SHALL BE PROTECTED FROM FREEZING AND THAWING DURING THE COURSE OF CONSTRUCTION.

2.2 BRACING AND SHORING.

A. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACK-FILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE COMPLETE.
B. WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL.
C. CONTRACTOR SHALL DESIGN TEMPORARY BRACING FOR BACKFILL AGAINST THE FOUNDATION WALL.

PART 2 - FOUNDATIONS

2.3 EARTH RETENTION

A. THE SAFE RETENTION OF ALL EXCAVATIONS IS THE COMPLETE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. THIS RESPONSIBILITY INCLUDES SHEET PILE, SOLDIER PILE, LAGGING, TIEBACK, BRACE, DEADMAN AND SHOTCRETE COMPONENT DESIGN, DETERMINATION OF INSTALLATION SEQUENCES AND COORDINATION WITH EXISTING STRUCTURES AND UTILITIES.
B. RETENTION SYSTEMS SHALL PROTECT ALL NEW AND EXISTING STRUCTURES AND UTILITIES FROM DAMAGE DURING THE ENTIRE EXCAVATION AND BACKFILL SEQUENCE, UNTIL ALL PERMANENT STRUCTURES ARE INSTALLED AND HAVE ATTAINED FULL DESIGN STRENGTH.
C. DO NOT EXCAVATE BELOW EXISTING FOOTINGS OR UTILITIES UNTIL THE ASSOCIATED EARTH RETENTION SYSTEMS ARE INSTALLED

2.4 FOOTINGS

A. ALL FOOTINGS SHALL BEAR ON AND BE FORMED BY CLEAN, UNDISTURBED, VIRGIN, SUB-SOIL OR COMPACTED ENGINEERED FILL WITH CAPABLE OF SUSTAINING A BEARING PRESSURE OF 3,000 PSF UNDER FULL SERVICE LIVE AND DEAD LOAD.
B. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE ON-SITE GEOTECHNICAL REPRESENTATIVE PRIOR TO CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER OR HIS ON-SITE REPRESENTATIVE SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED, OR LEAN CONCRETE FILL ADDED AS REQUIRED.
C. FOOTINGS SHALL BE POURED INTO AN EARTH-FORMED TRENCH, UNLESS NOTED OTHERWISE.
D. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 36 INCHES BELOW FINAL GRADE FOR FROST PROTECTION.

2.5 UNDERPINNING

A. UNDERPIN EXISTING FOUNDATION WALL IN SEQUENCE INDICATED IN THE STRUCTURAL DRAWINGS AND DRY PACK WITH NON-METALLIC, NON-SHRINK GROUT.
B. EXISTING CONSTRUCTION SHALL BE BRACED UNTIL UNDERPINNING IS COMPLETE

PART 3 - CONCRETE

3.1 CAST-IN-PLACE CONCRETE

A. STANDARDS:
1. ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (318-14).
2. ACI 350 "CODE REQUIREMENT FOR CONCRETE LIQUID CONTAINMENT STRUCTURES" (LATEST EDITION).
3. CRSI HANDBOOK (LATEST EDITION).
B. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS AND THEIR SUPPORT IN THE FORMS WITH ACCESSORIES MUST FOLLOW THE LATEST ACI CODE AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
C. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:
1. UNFORMED SURFACE PERMANENTLY IN CONTACT WITH THE GROUND........3"
1. FORMED SURFACES EXPOSED TO EARTH OR WEATHER...................2"
a. #6 BAR AND LARGER..2"
b. #5 BAR AND SMALLER...................................1-1/2"
2. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
a. WALLS, SLABS...3/4"
b. BEAMS, GIRDERS AND COLUMNS (TO TIES OR STIRRUPS).......1-1/2"
D. AGGREGATES SHALL BE AS FOLLOWS:
1. FINE AGGREGATE: SHALL BE CLEAN, HARD, DURABLE AND FREE OF DELETERIOUS SUBSTANCES AND CONFORM TO ASTM C33.
2. COARSE AGGREGATE: SHALL BE CLEAN, HARD, DURABLE WITHOUT FLAT OR ELONGATED PIECES AND SHALL CONFORM TO ASTM C33.
3. LIGHT WEIGHT AGGREGATE: SHALL BE CLEAN, HARD, DURABLE AND CONFORM TO ASTM C330.
E. ALL CONCRETE EXPOSED TO FREEZING AND THAWING AND DEICER CHEMICALS SHALL HAVE 6% (+1%/-1.5%) AIR ENTRAINMENT. DO NOT AIR ENTRAIN CONCRETE TO BE TROWEL FINISHED
F. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BARS, UNLESS NOTED OTHERWISE. WELDING OF ASTM A615, GRADE 60 REINFORCING IS NOT ALLOWED.
G. WELDED WIRE REINFORCING SHALL BE ASTM A185 AND SHALL BE CONTACT LAP SPLICED AND WIRED TOGETHER AT LEAST 2" AT SIDE AND 6" AT ENDS.
H. DOWELS IN WALL FOOTING SHALL BE EQUIVALENT IN SIZE AND NUMBER TO VERTICAL BARS. DOWELS MUST BE ANCHORED OR TIED IN POSITION BEFORE PLACING CONCRETE, PUSHING BARS INTO FRESHLY PLACED CONCRETE IS NOT ACCEPTABLE.
I. FIELD BENDING OF REINFORCING PARTIALLY EMBEDDED IN CONCRETE IS NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THE STRUCTURAL DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER.
J. ALL ABUTTING CONCRETE MEMBERS SHALL BE DOWELED TOGETHER UNLESS POURED MONOLITHICALLY. DOWELS SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ADJACENT MEMBERS.
K. THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS MUST BE REFERRED TO FOR ALL MECHANICAL FLOOR REQUIREMENTS, HOUSEKEEPING PADS AND EQUIPMENT INERTIA BASES, AND THE VARIOUS TRADES ARE RESPONSIBLE FOR PLACING OF SLEEVES, OUTLET BOXES, ANCHORS, ETC. THAT MAY BE REQUIRED.
L. PIPES, SLEEVES OR SLOTS SHALL NOT RUN THROUGH ANY BEAM OR GIRDER UNLESS SIZE AND LOCATION HAVE BEEN APPROVED BY THE STRUCTURAL ENGINEER.
1. CONDUIT AND PIPES EMBEDDED IN WALLS, BEAMS, OR SLABS SHALL BE NO LARGER IN OUTSIDE DIMENSION THAN 1/3 THE OVERALL MEMBER THICKNESS OR 2" MAXIMUM, AND SHALL BE PLACED NO CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER.
2. CONDUIT AND PIPES, WITH THEIR FITTINGS, EMBEDDED WITHIN A COLUMN SHALL NOT DISPLACE MORE THAN 4 PERCENT OF THE AREA OF THE COLUMN CROSS SECTION.
M. ADHESIVE FOR POST-INSTALLED REINFORCING DOWELS INTO CONCRETE SHALL BE HILTI HIT-HY 200 ADHESIVE ANCHORING SYSTEM INSTALLED PER SAFESET TECHNOLOGY WRITTEN INSTRUCTIONS, OR APPROVED EQUAL. MINIMUM EMBEDMENT LENGTH SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
#3 BARS -- 4.5" #7 BARS -- 10.5"
#4 BARS -- 6.0" #8 BARS -- 12.0"
#5 BARS -- 7.5"
#6 BARS -- 9.0"
N. MECHANICAL COUPLERS SHALL BE UNI-AXIAL TYPE CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION.
O. ALL REINFORCING SHALL LAPPED OR DOWELED IN ACCORDANCE WITH ACI 318 AS FOLLOWS, UNLESS NOTED OTHERWISE:
1. SPLICE BARS WITH CONTACT LAPS, UNLESS NOTED OTHERWISE.
2. USE CLASS B SPLICES, UNLESS NOTED OTHERWISE.
3. USE CLASS A SPLICE LENGTHS FOR DOWEL EMBEDMENT LENGTH.
P. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.
Q. SEE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, MASONRY, ANCHORS, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.
R. ALL STRUCTURAL STEEL MUST BE PROTECTED BY 3" OF CONCRETE WHERE EARTH WOULD OTHERWISE BE IN CONTACT WITH STEEL.
S. PROVIDE WATERSTOPS IN BELOW GRADE CONSTRUCTION JOINTS AND AT OTHER LOCATIONS AS INDICATED.
T. FOOTINGS MAY BE EARTH FORMED AT CONTRACTOR'S OPTION.
U. PROVIDE THE FOLLOWING ADDITIONAL REINFORCING UNLESS OTHERWISE CALLED FOR ON STRUCTURAL PLANS:
1. CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF CONCRETE WALLS, GRADE BEAMS AND FOOTINGS TO MATCH HORIZONTAL REINFORCING.
2. PROVIDE #4 SLAB DOWELS AT 12" O.C. AT DOORS, UNLESS OTHERWISE NOTED.
3. BARS AT OPENINGS IN SLABS AND WALLS: PROVIDE BARS WITH AREA EQUAL TO INTERRUPTED REINFORCING. PLACE ½ AT EACH SIDE OF OPENING.
V. CONCRETE WALLS SHALL HAVE CONSTRUCTION JOINTS NOT FURTHER THAN 100'-0" APART, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER. CONSTRUCTION JOINT LOCATIONS SHOULD BE PROVIDED TO THE STRUCTURAL ENGINEER IN WRITING PRIOR TO PROCEEDING WITH THE WORK.
W. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED FOR INSPECTION OF REBAR PLACEMENT, NOTICE SHALL BE GIVEN NOT LESS THAN 24 HOURS PRIOR TO CONCRETE PLACEMENT.

3.2 SLABS-ON-GRADE

A. PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLAB-ON-GRADE AS INDICATED IN THE STRUCTURAL DRAWINGS. IF JOINT PATTERN IS NOT INDICATED, PROVIDE JOINTS AT 15 FEET (+/-) IN BOTH DIRECTIONS AND LOCATED TO CONFORM TO BAY SPACING WHEREVER POSSIBLE (AT COLUMN CENTERLINES, HALF BAYS, THIRD BAYS, ETC.).
B. FLOOR SLAB CONSTRUCTION SHALL CONFORM TO GUIDELINES OF ACI 302. FLOOR FINISHED SURFACE SHALL CONFORM TO THE ACI 302 TOLERANCES FOR FLATNESS AND LEVELNESS NUMBERS (FF/FL) SPECIFIED.
C. PROVIDE COMPRESSIBLE FILLER AND SEALANT IN SLAB-ON-GRADE AND WALL AND COLUMN INTERFACES THAT ARE NOT DOWELED TOGETHER.
D. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
E. AT FLOOR DRAINS, LOCALLY SLOPE FLOOR TOWARDS DRAIN. SEE DOCUMENTS FROM OTHER DISCIPLINES FOR DRAIN LOCATIONS.

3.3 SLABS-ON-METAL DECK (COMPOSITE AND NON-COMPOSITE)

A. CONCRETE THICKNESS INDICATED IS NOMINAL. CONTRACTOR SHALL PLACE CONCRETE FOR SLABS SO THAT THE FINISHED SURFACE IS SCREEDED LEVEL TO AN ELEVATION WITHIN 1/4" OF THE TOP OF SLAB ELEVATION SHOWN ON PLANS. CONTRACTOR SHALL ALLOW FOR THE DEFLECTION OF THE FLOOR ASSEMBLY DUE TO THE WET WEIGHT OF THE CONCRETE WHEN CALCULATING CONCRETE QUANTITY.
B. PROVIDE SLAB BOLSTERS, HIGH CHAIRS, AND #5 SUPPORT BARS AS NECESSARY TO MAINTAIN PROPER PLACEMENT OF REINFORCING.
C. FLOOR SLAB CONSTRUCTION SHALL CONFORM TO GUIDELINES OF ACI 302. FLOOR FINISHED SURFACE SHALL CONFORM TO THE ACI 302 TOLERANCES FOR FLATNESS AND LEVELNESS NUMBERS (FF/FL) SPECIFIED.
D. CONSIDERATION SHALL BE GIVEN TO SEQUENCING OF CONCRETE PLACEMENT SO AS TO CONTROL FINISH ELEVATIONS WITHIN THE SPECIFIED LIMITS.
E. SEE COMPOSITE BEAM NOTES FOR SHORING REQUIREMENTS AT COMPOSITE SLABS.

PART 4 - REINFORCED MASONRY

4.1 GENERAL

A. MASONRY CONSTRUCTION SHALL COMPLY WITH THE ACI "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" -ACI 530-13.
B. PROVIDE CONCRETE UNIT MASONRY THAT DEVELOPS THE FOLLOWING MINIMUM NET-AREA COMPRESSIVE STRENGTH (F'M) AT 28-DAYS: 1500 PSI.
C. GROUT SHALL CONFORM TO ASTM C476. GROUT SHALL BE PROPORTIONED WITH A SLUMP OF 8" TO 11" USING 3/8" NOMINAL MAXIMUM SIZE COURSE AGGREGATE.
D. MORTAR SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C270 AND BE OF THE FOLLOWING TYPES:
WALLS BELOW GRADE: TYPE M
BEARING WALLS: TYPE M OR S
INTERIOR NON-BEARING: TYPE N
E. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BARS, UNLESS NOTED OTHERWISE. WELDING OF ASTM A615, GRADE 60 REINFORCING IS NOT ALLOWED.
F. REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706, DEFORMED BARS.
G. PROVIDE STANDARD LADDER [OR TRUSS] TYPE HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A951, SPACED AT 16" ON CENTER, UNLESS NOTED OTHERWISE. PROVIDE PREFABRICATED CORNER AND TEE UNITS AT CORNERS AND INTERSECTIONS. ALL JOINT REINFORCING SHALL BE OF TYPE 304 STAINLESS STEEL COMPLYING WITH ASTM A167 OR SHALL BE GALVANIZED AS FOLLOWS:
1. ALL JOINT REINFORCEMENT IN EXTERIOR WALLS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.
2. ALL JOINT REINFORCEMENT IN INTERIOR WALLS SHALL BE MILL GALVANIZED IN ACCORDANCE WITH ASTM A641.
H. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING AT BOND BEAM CORNERS AND INTERSECTIONS.
I. MASONRY SHALL BE LAID IN RUNNING BOND UNLESS NOTED OTHERWISE.
J. RAKE BACK MORTAR AND CUT 50% OF HORIZONTAL JOINT REINFORCING AT CONTROL JOINTS.
K. BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.
L. DOWELS FROM CAST-IN-PLACE CONCRETE SHALL MATCH THE VERTICAL REINFORCEMENT IN THE WALL ABOVE UNLESS NOTED OTHERWISE. SUCH DOWELS SHALL BE FURNISHED BY THE CONCRETE CONTRACTOR.
1. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH THE VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN 6 VERTICAL. DOWELS MAY BE GROUTED INTO A CELL ADJACENT TO THE VERTICAL WALL REINFORCING.
M. REINFORCING ENTIRELY WITHIN THE MASONRY SHALL BE FURNISHED BY THE MASONRY CONTRACTOR.
N. REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS (OR 24" MINIMUM) WITH CONTACT LAP SPLICES. JOINT REINFORCING SHALL BE LAPPED 6".
O. VERTICAL REINFORCING SHALL BE CENTERED IN WALL, UNLESS NOTED OTHERWISE. BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 DIAMETERS OF THE REINFORCING.
P. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4" FROM MASONRY OR ADJACENT BARS AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS NOT SPLICED. GROUT VERTICAL REINFORCED CELLS AND BOND BEAMS SOLID. GROUT SOLID ALL ADDITIONAL CELLS AS NOTED ON DRAWINGS.
Q. REINFORCING STEEL SHALL BE SECURED IN PLACE AND INSPECTED BEFORE GROUTING STARTS.
R. VERTICAL GROUTING MAY BE EITHER "LOW LIFT" OR "HIGH LIFT" AT THE CONTRACTOR'S OPTION. GROUT PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 530.
S. GROUT CONCRETE MASONRY BELOW GRADE SOLID. GROUT CAVITIES OF MULTI-WYTHE WALLS BELOW GRADE.
T. ALL VERTICAL CELLS TO BE GROUTED SHALL HAVE VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 2"X 3".
U. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY IN THE POUR JOINT.
V. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATIONS.
W. ALL BOLTS, ANCHORS, ETC., INSERTED IN THE WALLS SHALL BE GROUTED SOLID IN POSITION.
X. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DETAILS OF DOOR AND WINDOW OPENINGS FOR SPECIAL COURSING AND OTHER MASONRY DETAILS. THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS IS INTENDED TO DEFINE THE STRUCTURAL REQUIREMENTS ONLY.
Y. CONDUITS, PIPES, AND SLEEVES SHALL BE NO CLOSER THAN 3 DIAMETERS ON CENTER. MAXIMUM AREA OF VERTICAL CONDUITS, PIPES, OR SLEEVES PLACED IN COLUMNS OR PILASTERS SHALL NOT DISPLACE MORE THAN 2 PERCENT OF THE NET CROSS SECTION.
Z. SEE PROJECT SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR MASONRY VENEER ANCHORS.

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PROJECT TITLE
Wynnefield Library Courtyard

DRAWING TITLE
GENERAL NOTES

PROJECT NO. 1914.06
DATE 02/02/2024
SCALE AS SHOWN
DRAWN BY TKR
CHECKED BY JE
DRAWING NO S000
FILE:

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

REQUIRED VERIFICATION AND INSPECTION OF SOILS (2018 IBC, TABLE 1705.6)

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	--	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	--	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	--	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	--
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	--	X

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (2018 IBC, TABLE 1705.3)

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT.	--	X	ACI 318: CH. 20, 25.2, 25.3,	1908.4
2. INSPECT ANCHORS CAST IN CONCRETE	--		ACI 318: 17.8.2	--
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	X	X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	--
4. VERIFY USE OF REQUIRED DESIGN MIX.	--	X	ACI 318: CH. 19, 26.4.3.26.4.4	1904.1, 1904.2, 1908.2,1908.3
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT CONCRETE.	X	--	ASTM C172 ASTM C31 ACI 318: 26.5,26.12	1908.10
6. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	--	ACI 318: 26.5	1908.6, 1908.7, 1908.8
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	--	X	ACI 318: 26.5.3-26.5.5	1908.9
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	--	X	ACI 318: 26.11.1.2(B)	--

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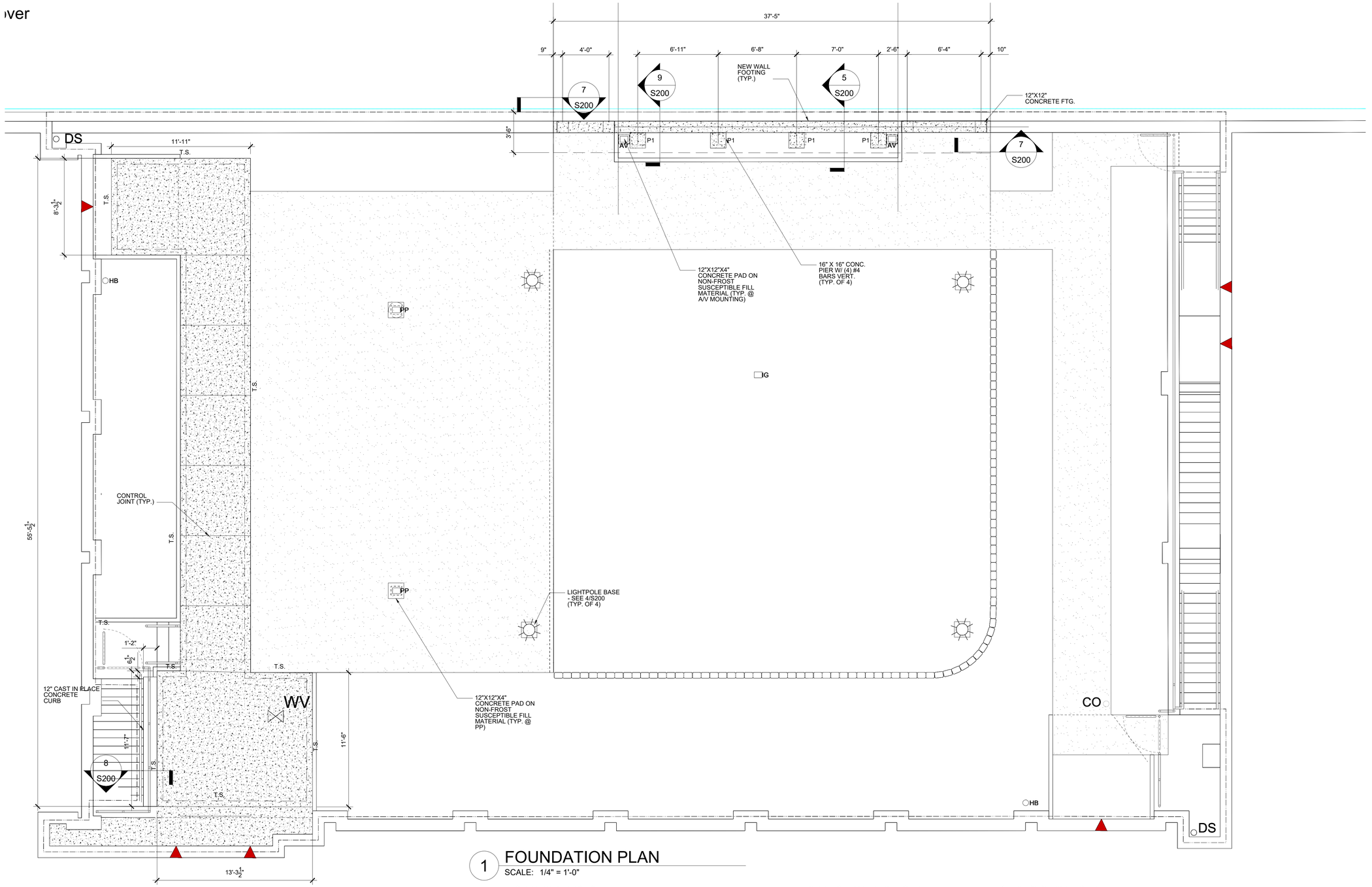

1 FOUNDATION PLAN

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

FOUNDATION PLAN NOTES:

1. TOP OF SLAB ELEVATION SHOWN ON PLAN IS RELATIVE TO PROPOSED SPOT ELEVATION GRADING NOTES ON GRADING AND PLANTING PLANS
2. TOP OF PIER ELEVATION IS [-0' -2"] UNO ON PLAN
3. ALL COLUMN FOOTINGS TO BE CENTERED ON COLUMN CENTERLINE
4. ALL EXISTING CONDITIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING OF ANY WORK. IF EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY AND PROVIDE A SKETCH OF THE CONDITION WITH THE PROPOSED MODIFICATION FOR REVIEW BY ARCHITECT

FOUNDATION ABBREVIATION LEGEND:

T/SLAB	INDICATES TOP OF SLAB ELEVATION
T/WALL	INDICATES TOP OF WALL ELEVATION
(±FT-IN")	INDICATES DIMENSION ABOVE OR BELOW TYPICAL T/SLAB ELEVATION
[±FT-IN"]	INDICATES DIMENSION ABOVE OR BELOW TYPICAL T/SLAB ELEVATION
P1	INDICATES 16"X16" CONCRETE PIER W/ (4) #4 BARS TO BEAR ON TOE OF EXTISTING FOOTING.
TS	INDICATES THICKENED SLAB SEE DETAIL 1/S200
VIF	INDICATES VERIFY IN FIELD

FOUNDATION SYMBOLS LEGEND

- INDICATES ELEVATION DATUM
- NEW 6" SLAB W/ 6X6 W2.9XW2.9 W.W.F. ON COMPACTED 2A MODIFIED AGGREGATE BASE ON COMPACTED SUBGRADE
- STABILIZED STONE FINES PAVEMENT. SEE ARCH. DWGS.

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PROJECT NO. 1914.06	DRAWING NO S100
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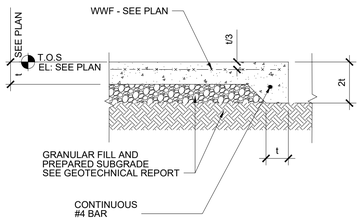
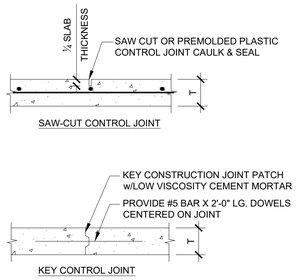


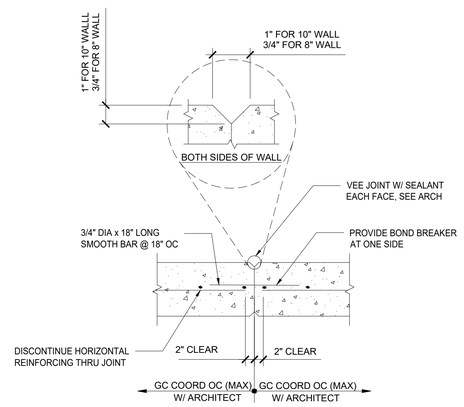
1 TYP. SLAB EDGE

SCALE: N.T.S.



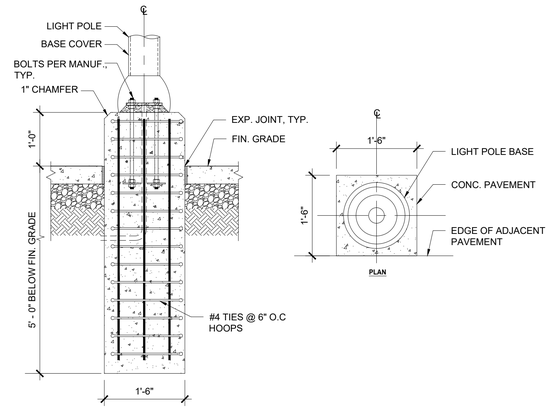
2 TYP. CONSTRUCTION JOINTS

SCALE: N.T.S.



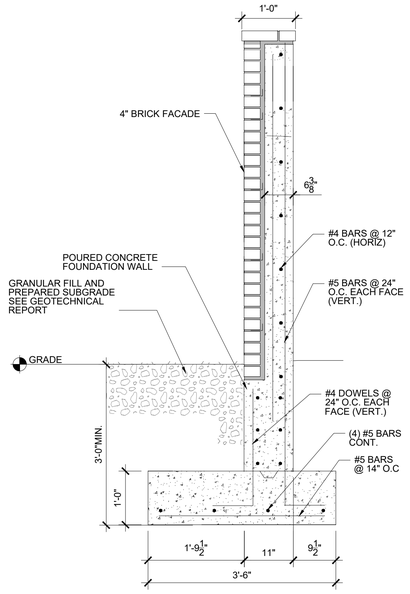
3 TYP. WALL CONTRACTION JOINT FOR 8"& 10" WALLS

SCALE: N.T.S.



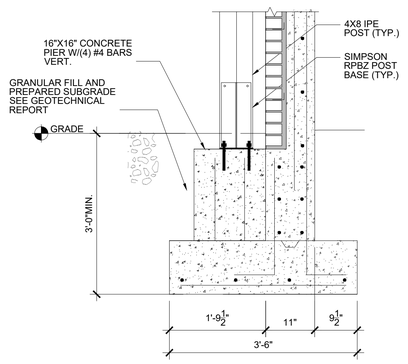
4 TYP. CONTRACTION JOINT

SCALE: N.T.S.



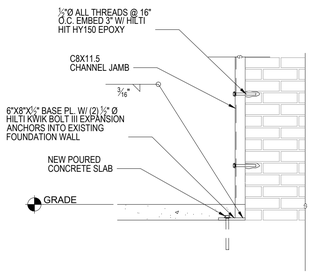
5 SECTION THRU NEW BRICK WALL

SCALE: 3/4" = 1'-0"



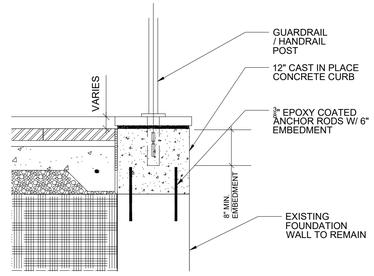
6 TRELLIS BASE CONNECTION (TYP.)

SCALE: 3/4" = 1'-0"



7 GATE POST ANCHORAGE

SCALE: 3/4" = 1'-0"



8 TRELLIS BASE CONNECTION (TYP.)

SCALE: 3/4" = 1'-0"

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SECTIONS AND DETAILS

PROJECT NO.	DRAWING NO
1914.06	S200
DATE 02/02/2024	
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NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

GENERAL ELECTRICAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, PENNSYLVANIA CODES, NFPA, UL, THE LATEST ENERGY CONSERVATION CONSTRUCTION CODE, AND ALL OTHER GOVERNING AGENCIES HAVING JURISDICTION. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR AND FILED WILL ALL AUTHORITIES HAVING JURISDICTION.
2. THE ELECTRICAL CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. CONTRACTOR SHALL PERFORM THIS PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
3. SUBSEQUENT TO AWARD OF THE CONTRACT, THE ELECTRICAL CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE OF WORK TO THE ARCHITECT. THE SCHEDULE SHALL BE MODIFIED AS NECESSARY AND RE-ISSUED WHEN ANY CHANGES THERETO ARE REQUIRED.
4. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATIONS AND ELEVATIONS OF ALL LIGHTING FIXTURES, ETC., SHALL BE DETERMINED BY THE ARCHITECT AND OWNER.
5. CIRCUIT NUMBERS INDICATED ON PLANS ARE FOR GROUPING PURPOSES ONLY. WHERE DRAWINGS CALL FOR SEPARATE NEUTRAL WIRES OR DEDICATED CIRCUITS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUITS WITH PROPER PHASE SEQUENCING FOR EVERY SHARED NEUTRAL WIRE.
6. BRANCH CIRCUITS SHALL BE ARRANGED TO BALANCE LOADS TO THE EXTENT POSSIBLE. LOADS IMBALANCES BETWEEN PHASES SHALL NOT EXCEED 10%.
7. ALL PANELS SHALL HAVE COMPLETE DIRECTORIES INDICATING LOADS SERVED AS WELL AS SPARES AND SPACES.
8. ELECTRIC PANEL COVERS SHALL NOT BE LEFT OFF AT ANY TIME UNLESS CONTRACTOR'S PERSONNEL ARE WORKING ON SAME. COVERS SHALL BE REPLACED AT THE END OF THE WORK DAY.
9. PROVIDE GROUND WIRE IN ALL FEEDERS TO MOTORIZED EQUIPMENT.
10. PROVIDE ARC FAULT CIRCUIT BREAKERS OR RECEPTACLES WHERE INDICATED OR WHERE REQUIRED BY CODE.
11. PROVIDE GROUND FAULT CIRCUIT BREAKERS OR RECEPTACLES WHERE INDICATED OR WHERE REQUIRED BY CODE.
12. ANY ELECTRICAL EQUIPMENT INDICATED OUTDOORS SHALL BE WEATHERPROOF IN NEMA 3R ENCLOSURES.
13. ALL DEVICE COLORS AND FINISHES, AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES SHALL BE IN ACCORDANCE TO ARCHITECTURAL DRAWINGS.
14. 3/4" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED.
15. ARMOR CLAD (AC) OR METAL-CLAD CABLE (MC) MAY BE USED AS PERMITTED BY CODE. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED WITH SET SCREW TYPE FITTINGS.
16. FLEXIBLE METALLIC CONDUIT (FMC) (GREENFIELD) SHALL BE USED FOR FINAL CONNECTION TO MOTORS AND TO RECESSED MOUNTED LIGHTING FIXTURES. LENGTH SHALL NOT EXCEED 6 FEET.
17. WHERE MORE THAN ONE SWITCH IS INSTALLED IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A MULTI- GANG BOX UNDER ONE COVER PLATE.
18. ALL MATERIALS SHALL BE NEW AND SHALL CONFORM WITH THE STANDARDS OF THE UNDERWRITERS LABORATORIES, INC. (UL) WHERE SUCH A STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR TYPE OF MATERIAL IN QUESTION, UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR SHALL SUBMIT CATALOG CUTS AND SHOP DRAWINGS OF ALL DEVICES, EQUIPMENT AND MATERIAL PROPOSED TO BE USED TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL. A SHOP DRAWING LOG SHALL BE MAINTAINED BY THE CONTRACTOR AND STATUS OF SUBMISSIONS SHALL BE UPDATED AT LEAST BI-WEEKLY.
20. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION.
21. BEFORE INSTALLING ANY WORK, THE CONTRACTOR, SHALL CONFIRM THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR EQUIPMENT, FINISHES AND OTHER ITEMS, AS SHOWN ON THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS SO INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THIS CONTRACTOR AT HIS OWN EXPENSE SHALL MAKE SUCH CHANGES IN THE WORK AS NECESSARY AND AS DIRECTED BY THE ARCHITECT, TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
22. DURING THE PROJECT DURATION, THE ARCHITECT AND ENGINEER WILL INSPECT THE WORK PROGRESS. ANY WORK WHICH IS JUDGED UNSATISFACTORY FOR ANY REASON OR NOT IN COMPLIANCE WITH THE CONTRACT, CODE, OR STANDARDS SHALL BE REMOVED AND REPLACED AS DIRECTED AND AT THE EXPENSE OF THE CONTRACTOR.
23. CHOPPING OR CHASING OF MASONRY MUST BE COORDINATED WITH THE ENGINEER AND ARCHITECT PRIOR TO COMMENCING WORK.
24. UPON COMPLETION OF THE WORK, A SET OF "AS-BUILT" DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND ACCEPTANCE. FINAL AS-BUILTS SHALL BE SUBMITTED TO THE OWNER PRIOR TO PROJECT CLOSEOUT.
25. THE ENERGIZATION OF THE ELECTRICAL INSTALLATION DOES NOT CONSTITUTE AN ACCEPTANCE OF THE WORK BY THE OWNER. FINAL ACCEPTANCE IS TO BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT THE WORK FULFILLS THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND HAS FURNISHED ALL REQUIRED CERTIFICATES OF APPROVAL FROM THE STATE AUTHORITIES, MUNICIPAL AUTHORITIES AND UNDERWRITERS.
26. ELECTRICAL CONTRACTOR SHALL FILE FOR NECESSARY INSPECTIONS AND SHALL PROVIDE AN ELECTRICAL INSPECTION APPROVAL CERTIFICATE TO THE ARCHITECT UPON COMPLETION OF THE WORK.
27. ALL ELECTRICAL WORK TO CONFORM TO NEC AND LOCAL ELECTRICAL CODES.
28. THE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS. ALL NON-CURRENT METAL PARTS SHALL BE CONNECTED TO THE GROUNDING SYSTEM. PROVIDE GROUND ROD IN FIRST BOX & BOND TO CONDUIT.
29. ALL UNDERGROUND CONDUIT SHALL BE HOT DIPPED GALVANIZED STEEL WITH WARNING TAPE ABOVE IT. RIGID PVC CONDUIT IS ACCEPTABLE TO USE FOR ALL UNDERGROUND RACEWAYS IN AREAS NOT REGULARLY SUBJECT TO VEHICULAR TRAFFIC. PROVIDE CODE-SIZED GROUND WIRE IN EACH PVC CONDUIT AS PER NEC 250.
30. FOR EXACT LAYOUT & EQUIPMENT LOCATIONS SEE LANDSCAPE PLAN
31. COORDINATE CONDUIT ROUTING/LAYOUT TO AVOID ANY EQUIPMENT FOOTINGS & TREE ROOTS.
32. EXCAVATION AROUND TREES SHALL BE PERFORMED BY HAND TO NOT DISTURB EXISTING ROOT SYSTEM.
33. MINIMUM SIZE WIRING SHALL BE #12. ELECTRICAL CONTRACTOR SHALL INCREASE WIRE SIZE AND CONDUIT AS NECESSARY TO MEET ALL VOLTAGE DROP LIMITATIONS
34. CONTRACTOR SHALL INSTALL PULL BOXES AS REQUIRED BY CODE AND TO FACILITATE CABLE INSTALLATION. COORDINATE LOCATIONS OF PULL BOXES WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

TRENCHING NOTES

1. CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO DIGGING.
2. ALL EXCAVATION IN THE AREA OF THE EXISTING UNDERGROUND EQUIPMENT, PIPES AND CONDUITS SHALL BE PERFORMED BY HAND.
3. ANY AREA PLANTS OR LANDSCAPING OR PAVEMENT DISTURBED DURING THE EXCAVATION SHALL BE RESTORED OR REPLACED TO MATCH EXISTING CONDITIONS BY THE CONTRACTOR AT NO COST TO THE OWNER.
4. ANY EXISTING BURIED CONDUITS, DRAINAGE, SPRINKLER PIPING, ETC. THAT IS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
5. CONTRACTOR SHALL VERIFY AND COORDINATE FOR EXISTING UNDERGROUND UTILITIES AND UTILITIES OF ALL OTHER TRADES TO BE INSTALLED AS PART OF THIS CONTRACT TO LOCATE FEEDERS SHOWN ON THESE DRAWINGS. THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH UTILITY PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY OR MAY NOT BE SHOWN OR EXACTLY DEPICTED ON THE PLANS. IT IS RESPONSIBILITY OF THIS CONTRACTOR TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK.

ELECTRICAL ABBREVIATIONS

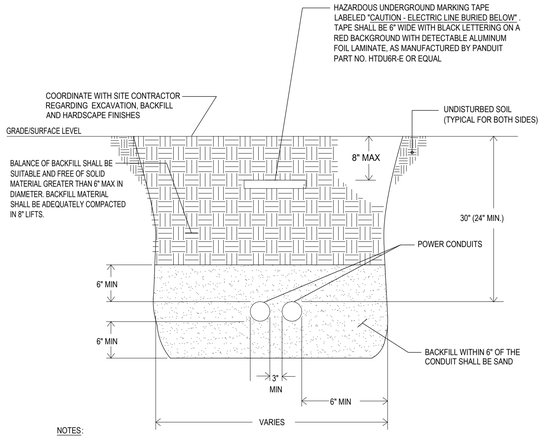
(NOT ALL ABBREVATIONS COULD BE USED)

A	AMPERES	HZ	HERTZ
ACT	ABOVE COUNTER TOP	JB	JUNCTION BOX
AFF	ABOVE FINISH FLOOR	KVA	KILOVOLT AMPERES
AWG	AMERICAN WIRE GAUGE	KW	KILOWATTS
BLDG	BUILDING	LP	PANEL DESIGNATION
C	CONDUIT	LTG	LIGHTING
CAT	CATALOG	MAX	MAXIMUM
CAM	CAMERA	MCB	MAIN CIRCUIT BREAKER
CB	CIRCUIT BREAKER	MECH	MECHANICAL
CKT	CIRCUIT	MER	MECHANICAL EQUIPMENT ROOM
CLG	CEILING	MFS	MAIN FUSED SWITCH
DGP	DATA GATHERING PANEL	MIN	MINIMUM
DISC	DISCONNECT	MLO	MAIN LUGS ONLY
DN	DOWN	MTD	MOUNTED
DR	DOOR RELEASE	MW	MICROWAVE
DWG	DRAWING	N	NEUTRAL
ELEC	ELECTRICAL	NC	NORMIALLY CLOSED
EM	EMERGENCY	NIC	NOT IN CONTRACT
EQUIP	EQUIPMENT	No.	NUMBER
FACP	FIRE ALARM CONTROL PANEL	NL	NIGHT LIGHT
FBO	FURNISH BY OTHER DIVISION OF WORK	NTS	NOT TO SCALE
FIXT	FIXTURE	P	POLE
FL	FLOOR	PL	PROPERTY LINE BOX
FLEX	FLEXIBLE	PC	PERSONAL COMPUTER (COMPUTER CIRCUIT)
FT	FEET OR FOOT	PNL	PANEL
GA	GAUGE	Ø	PHASE
G, GRD, GND	GROUND	SW	SWITCH
GC	GENERAL CONTRACTOR	SWBD	SWITCHBOARD
GFI	GROUND FAULT INTERRUPTER	SEB	SERVICE END BOX
HD	HAND DRYER	TEL	TELEPHONE
HP	HORSEPOWER	TYP	TYPICAL
HVAC	HEATING, VENTILATING AND AIR CONDITIONING DIVISION OF WORK	U.O.N	UNLESS OTHERWISE NOTED
		UL	UNDERWRITERS LABORATORIES
		V	VOLTAGE
		WP	WEATHERPROOF

ELECTRIC LEGEND

- EXISTING LIGHTING POLE
- G — OUTDOOR GROUND BOX
- PP — OUTDOOR CHARGING STATION
- AV — OUTDOOR CHARGING STATION WITH AV CONNECTION
- J — GROUND JUNCTION BOX
  CAM - CAMERA
- LIGHTING AND SWITCHES WIRING

DRAWING LIST

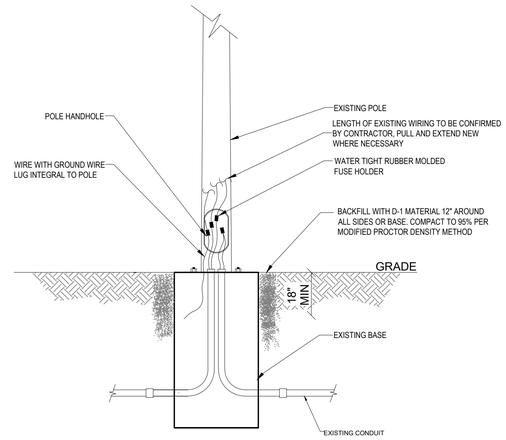


NOTES:

1. DETAIL SHOWN FOR INFORMATION PURPOSES ONLY. SAME CONCEPT SHALL ALSO APPLY FOR SINGLE CONDUITS.

TRENCHING DETAIL FOR CONDUITS

NOT TO SCALE



TYP LIGHT POLE BASE DETAIL

NOT TO SCALE

0 4 8 16 FT

N

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SEALS

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — CAPPY E. A. SABIE — ENGINEER — No. PE071694

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CITY OF PHILADELPHIA
WYNNEFIELD BRANCH LIBRARY
5325 OVERBROOK AVENUE
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
Wynnefield Library Courtyard

DRAWING TITLE
ELECTRICAL NOTES, SYMBOLS & ABBREVIATIONS

PROJECT NO. 1914.06	DRAWING NO E-001
DATE 01/31/2024	
SCALE AS SHOWN	
DRAWN BY EB	
CHECKED BY EP	FILE:

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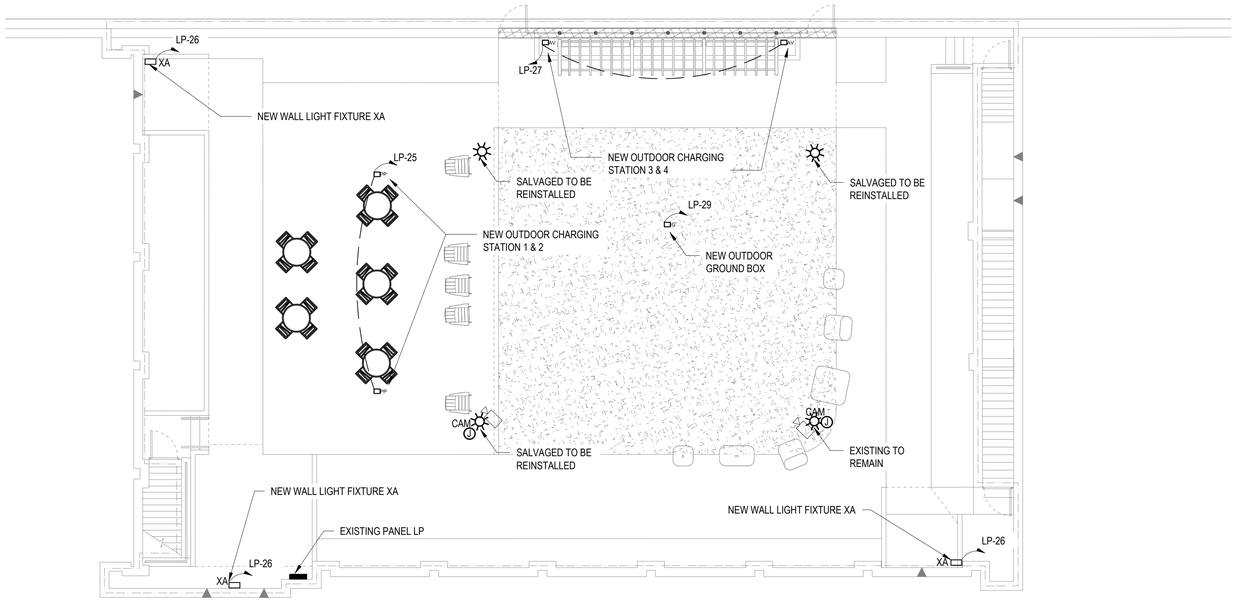

1 COURTYARD POWER PLAN
1/8" = 1'-0"

EXISTING ELECTRICAL PANEL: LP

VOLTS: 120/208
PHASE: 3

	Branch Circuit			Conductor		Conduit		W	FED FROM MDP MLO: 100A A B C	Branch Circuit			Conductor		Conduit		W
	Circuit Breaker Pole #	Trip AMP	Load Designation	No.	AWG MCM	No.	Size			Circuit Breaker Pole #	Trip AMP	Load Designation	No.	AWG MCM	No.	Size	
	1	20	LIGHT POLE							2	20	EXISTING					
	3	20	EXISTING							4	20	EXISTING					
	5	20	EXISTING							6	20	LIGHT POLE					
	7	20	EXISTING							8	20	EXISTING					
	9	20	EXISTING							10	20	EXISTING					
	11	20	LIGHT POLE							12	20	EXISTING					
	13	20	EXISTING							14	20	EXISTING					
	15	20	EXISTING							16	20	LIGHT POLE					
	17	20	EXISTING							18	20	EXISTING					
	19	20	EXISTING							20	20	EXISTING					
	21	20	EXISTING							22	20	EXISTING					
	23	20	EXISTING							24	20	EXISTING					
*	25	20	POWER PEDESTAL 1&2	2	#12	1	3/4"C	720		26	20	NEW WALL LIGHT	2	#12	1	3/4"C	219
*	27	20	POWER PEDESTAL 3&4	2	#12	1	3/4"C	720		28	20	SPARE					
*	29	20	GROUND RECEPTACLE	2	#12	1	3/4"C	360		30	20	SPARE					

* ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKER AS INDICATED IN ELECTRICAL PANEL SKETCH.
* ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL BRANCH WIRING FOR NEW CIRCUITS AS REQUIRED.
* NEW BREAKERS SHALL MATCH BRAND AND AIC RATING OF THE EXISTING PANELBOARD.
CONTRACTOR TO UPDATE EXISTING LP SCHEDULE SHOWING EXACT CIRCUITS OF EXISTING AND NEW EQUIPMENT.

TOTAL LOAD: 2.4KW - 7 AMPS

POWER/SECURITY CAMERA NOTES

1. ELECTRICAL CONTRACTOR SHALL TRACE OUT AND FIELD VERIFY EXISTING CIRCUITS FOR DEVICES AND EQUIPMENT TO REMAIN.VERIFY EXISTING LENGTH OF WIRING, TAP EXISTING CIRCUITS AND EXTEND BRANCH WIRING CONDUCTORS AND CONDUIT TO SALVAGED LIGHT POLES.
2. CONTRACTOR TO PROVIDE POWER TO PEDESTAL #1, #2, #3, #4 AND GROUND RECEPTACLE. CONTRACTOR TO UTILIZE SPARE CIRCUIT ON EXISTING PANEL (LP) AND RUN 2#12, IN 3/4"C. EXTEND ALL CONDUIT AND WIRING AS NECESSARY TO ACHIEVE LOCATION. CONTRACTOR TO VERIFY LOAD DOES NOT EXCEED RATING OF OVER-CURRENT PROTECTION DEVICE.
3. CONTRACTOR TO PROVIDE POWER TO NEW EXTERIOR LIGHT FIXTURE XA. UTILIZE CIRCUIT LP-26 ON EXISTING PANEL LP AND RUN 2#12, IN 3/4"C.
4. SECURITY CAMERA SHALL BE MOUNTED ON LIGHT POLES AS INDICATED ON THE DRAWINGS.
5. ALL SECURITY EQUIPMENT AND CAMERAS SHALL BE INSTALLED BY A CERTIFIED INSTALLER.
6. CERTIFIED INSTALLER SHALL AIM CAMERAS AND DEMONSTRATE TO THE OWNER COVERAGE, OPERABILITY AND TRAIN OWNER'S STAFF.
7. REFER TO SPECIFICATIONS SECTION 28 23 00 FOR CAMERA AND CABLING SPECIFICATIONS.
8. VIDEO SURVEILLANCE SYSTEM SHALL EXACQVISION MONITORING SOFTWARE.
EXISTING LIBRARY SERVER: EXACQ IP04-12T-Q 18TB

SECURITY CAMERA SCHEDULE

CODE	MANUFACTURER/ CATALOG NO.	NOTES
	HANWAH TECHWIN WISENET X SERIES XNP-6120H 2MP OUTDOOR PTZ	REFER TO SPECIFICATION SECTION 28 23 00

WYNNEFIELD LIBRARY
LIGHTING FIXTURE SCHEDULE

CODE	SPECIFICATION	MANUFACTURER/ CATALOG NO.	LAMP TYPE	WATTS	NOTES
XA	14" WIDE X 6" HIGH WALL MOUNTED AREA LIGHT, FORWARD THROW DISTRIBUTION, 4K COLOR, 7700 LMNS, VANDAL GUARD, FINISH TBD, SEE ELEVATIONS FOR MOUNTING HEIGHTS	LITHONIA #DSXW1-20C-1000-40K-TFTM-MVOLT-VG-X	LED	73	NON DIMMING DLC LISTED

0 4 8 16 FT

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PHILADELPHIA MANETO

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5325 OVERBROOK AVENUE
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
Wynnefield Library Courtyard

DRAWING TITLE
ELECTRICAL SITE POWER PLAN

PROJECT NO.	DRAWING NO
1914.06	E-100
DATE 01/31/2024	
SCALE AS SHOWN	
DRAWN BY EB	
CHECKED BY EP	FILE:

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

PHILADELPHIA DEPARTMENT OF LICENSE & INSPECTION

ALL PLUMBING WORK SHALL MEET THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE PA ED., 2018.

THE PLUMBING SYSTEMS (WATER DISTRIBUTION) AND ALL ASSOCIATED EQUIPMENT WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE BUILDING CODE OF THE CITY OF PHILADELPHIA, THE 2018 PHILADELPHIA PLUMBING CODE AND APPLICABLE LOCAL LAWS.

1. MATERIALS, INSTALLATIONS, SUPPORT, ETC WILL BE FULL COMPLIANCE WITH CHAPTER 3, SECTION P-303.
2. THE TESTING AND INSPECTION OF PIPING AND INSTALLATIONS WILL BE IN FULL ACCORDANCE WITH CHAPTER 1 SECTION P-102 AND CHAPTER 3 SECTION P-311.
3. THE INSTALLATION OF FIXTURES WILL BE IN FULL ACCORDANCE OF ALL APPLICABLE SECTIONS OF CHAPTER 4 OF THE PLUMBING CODE.
4. THE INSTALLATION OF WATER HEATERS WILL BE IN FULL ACCORDANCE OF ALL APPLICABLE SECTIONS OF CHAPTER 5 OF THE PLUMBING CODE.
5. THE WATER SUPPLY SYSTEMS OF THE SUBJECT BUILDING SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH CHAPTER 6 AND ALL APPLICABLE SECTIONS OF THE PLUMBING CODE.
6. THE SANITARY DRAINAGE SYSTEM WILL BE SIZED AND INSTALLED IN FULL COMPLIANCE WITH ALL APPLICABLE SECTIONS OF CHAPTER 7 OF THE PLUMBING CODE.
7. ANY INDIRECT/SPECIAL WASTES WILL BE SIZED AND INSTALLED IN FULL COMPLIANCE ALL APPLICABLE SECTIONS OF CHAPTER 8 OF THE PLUMBING CODE.
8. THE VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH ALL APPLICABLE SECTIONS OF CHAPTER 9 OF THE PLUMBING CODE.
9. TRAPS/INTERCEPTOR INSTALLED WITHIN THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH ALL APPLICABLE SECTIONS OF CHAPTERS 8 OF THE PLUMBING CODE.
10. THE STORM DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH ALL APPLICABLE SECTIONS OF CHAPTER 10 OF THE PLUMBING CODE.
11. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR WORKMAN AS PER CHAPTER 3 / SECTION P-311.

ENERGY CODE NOTES

1. ALL PIPING IN DOMESTIC HOT AND COLD WATER SYSTEM IS INSULATED. 1.5" FOR PIPE 1.5" AND 2" FOR PIPES > 1.5".

PLUMBING GENERAL NOTES

1. THE WORK INDICATED ON THESE DRAWINGS ARE DRAWN DIAGRAMMATIC AND ARE INTENDED TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR MAY MAKE CHANGES WHEN APPROVED IN WRITING BY THE ARCHITECT/ENGINEER WITH NO ADDITIONAL COST.
2. THE CONTRACTOR SHALL PROVIDE NEW PLUMBING FIXTURES, PIPING, INSULATION, VALVES AN APPURTENANCES AS SHOWN ON THE DRAWINGS AND AS REQUIRED FOR A COMPLETE SYSTEM.
3. DURING CONSTRUCTION ALL OPEN ENDS OF EXISTING PIPING SHALL BE PLUGGED AND CAPPED WITH PLASTIC OR METAL CAPS TO KEEP DIRT OUT OF THE SYSTEM.
4. NO DEAD ENDS SHALL BE LEFT ON ANY DRAINAGE PIPING UPON COMPLETION OF WORK.
5. UPON COMPLETION OF WORK THE ENTIRE SYSTEM SHALL BE LEFT IN PERFECT WORKING ORDER.
6. SUBMIT SHOP DRAWINGS SUFFICIENTLY IN ADVANCE OF THE WORK TO ALLOW PROPER TIME FOR REVIEW. MATERIALS SHALL NOT BE FABRICATED OR DELIVERED TO THE SITE BEFORE THE SHOP DRAWINGS HAVE BEEN APPROVED.
7. NEW SHUT-OFF VALVES SHALL BE PROVIDED AS REQUIRED TO ISOLATE DIFFERENT AREAS OF THE PLUMBING SYSTEM.
8. VENT PIPE SHALL BE GRADED TO DRAIN OUT ALL MOISTURE AND PREVENT SCALE ACCUMULATION.
9. ALL VALVES AND SPECIALTIES SHALL BE SO PLACED AS TO PERMIT EASY OPERATION AND ACCESS.
10. ALL EXPOSED PIPES SHALL BE ARRANGED TO PERMIT ACCESS FOR MAINTENANCE.
11. FINAL INSPECTION AND TEST OF COMPLETED SYSTEM SHALL BE MADE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.
12. THE CONTRACTOR SHALL INSULATE ALL HOT AND COLD DOMESTIC WATER PIPING LOCATED BELOW CEILING AFTER TESTING THE SYSTEM.
13. BEFORE BEING PLACED IN SERVICE ALL POTABLE WATER PIPING SHALL BE CLEANED, FLUSHED AN DISINFECTED.
14. UPON COMPLETION OF WORK ALL EXCESS MATERIAL, DEBRIS, ETC, SHALL BE REMOVED AND WORK AREA LEFT CLEAN TO THE OWNER'S SATISFACTORY.
15. INSTALL ARROWS ON PIPING BELOW CEILING TO INDICATE DIRECTION OF FLOW.
16. ALL ACOUSTIC CEILING MATERIALS DISTURBED BY THIS CONSTRUCTION TO BE REPLACED WITH NE MATERIAL TO MATCH EXISTING.
17. WHEN THE NEW EQUIPMENT IS INSTALLED BY OTHERS, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL NEW APPROPRIATE ROUGHING AND MAKING FINAL CONNECTIONS SUCH AS COLD AND HOT WATER, VENTS, GAS, ETC.
18. TESTING OF COMPLETE SYSTEM SHALL BE MADE IN THE PRESENCE OF OWNER'S REPRESENTATIVE AND THE AUTHORITIES HAVING JURISDICTION, AS REQUIRED BY LOCAL CODE.
19. IF INSPECTION OR TEST SHOW DEFECTS, SUCH DEFECTIVE WORK OR MATERIAL SHALL BE REPLACED AND INSPECTION AND TEST SHALL BE REPORTED. REPAIR TO PIPING SHALL BE MADE WITH NEW MATERIAL.
20. STANDARD FOR EQUIPMENT MANUFACTURER, MODEL AND CAPACITY OF EQUIPMENT OR FIXTURES ARE LISTED ON THE DRAWINGS OR IN SPECIFICATION. ANY OTHER MANUFACTURER OR MODELS ARE CONSIDERED THE SUBSTITUTIONS.
21. SUBSTITUTIONS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER. IF A SUBSTITUTION IS SUBMITTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE IT AND CERTIFY THAT THE SUBSTITUTION I EQUIVALENT IN ALL RESPECTS TO THE BASE SPECIFICATIONS.
22. IF SUBSTITUTION ARE APPROVED, NOTIFY ALL OTHER CONTRACTORS OR TRADES AFFECTED BY THE SUBSTITUTION AND FULLY COORDINATE. ANY COST RESULTING FROM SUBSTITUTION AND WHETHER BY CONTRACTOR OR OTHERS, SHALL BE RESPONSIBILITY OF PAID FOR BY SUBSTITUTION CONTRACTORS.
23. FIRE STOP ALL PENETRATIONS OF FIRE RATED CONSTRUCTION IN A CODE APPROVED MANNER IN ORDER TO MAINTAIN FIRE RATING. PROVIDE UL LISTED FIRE STOPPING.
24. FULLY WARRANTY ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE.
25. REPAIR OR REPLACE WITHOUT CHARGE TO THE OWNER ALL ITEMS FOUND DEFECTIVE DURING THE WARRANTY PERIOD.
26. IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES THAT MAY BE REQUIRED. CONTRACTOR SHALL MAKE ALL NECESSARY OFFSETS, FITTINGS AND ACCESSORIES AS REQUIRED WITH NO ADDITIONAL COST TO THE OWNER.
27. INSTALL PIPE TO UNIFORM PITCHES BETWEEN POINTS FOR WHICH ELEVATIONS ARE ESTABLISHED OF SHALL BE VERIFIED BY USE OF LEVEL OR OTHER APPROVED METHOD. PIPE INVERT SHALL BE ADJUSTED BY THE ADDITION OR SUBTRACTION OF FULL BEDDING AND NOT BY WEDGING OR BLOCKING.
28. ACCESS DOORS SHALL BE PROVIDED, AS MINIMUM FOR:
    1. CONCEALED VALVES.
    2. CONCEALED SHOCK ABSORBERS.
    3. CONCEALED AIR-POP CONNECTIONS.
    4. CONCEALED TRAP PRIMER UNITS.
29. ACCESS DOOR SHALL BE FURNISHED BY THIS CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.
30. CONTRACTOR SHALL SIZE DOOR TO PERMIT REMOVAL AND SERVICING OF ALL EQUIPMENT, BUT IN ANY CASE, SHALL BE NOT LESS THAN 12"X16".
31. NOTES ON ANY DRAWING SHALL ALSO APPLY TO ALL OTHER CONTRACT DRAWINGS UNLESS OTHERWISE SPECIFIED.
32. ALL BRACKETS, PLATES, CHANNELS, ETC, SHALL BE GALVANIZED UNLESS OTHERWISE SPECIFIED.
33. ALL SURFACES DAMAGED IN THE COURSE OF THE WORK SHALL BE RESTORED TO THE ORIGINAL CONDITION AND ON WORKING LIKE MANNER.
34. COORDINATE AND SCHEDULE ALL WORK TO MEET THE OVERALL DESIGN OBJECTIVE.
35. FOR ALL PIPES AND CONDUITS PASSING THROUGH WALL OR FLOORS, PROVIDE PIPE SLEEVES.
36. PROVIDE DRAIN VALVES AT ALL LOW POINTS.
37. CHANGES IN DIRECTION IN DRAINAGE PIPING SHALL BE MADE WITH APPROPRIATE USE OF 45 DEGREE WYES, LONG SWEEPS, QUARTER, SIXTH, EIGHTH, OR SIXTEENTH BENDS.
38. PROVIDE CLEANOUTS ON DRAIN LINES AS SHOWN ON DRAWINGS AND AS REQUIRED BY CODE.
39. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL GOVERNMENT SALES TAXES, FEES AND OTHER COST INCLUDING UTILITY CONNECTIONS COST.
40. THE CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF THE OTHER TRADES TO VERIFY WHICH WORK WILL BE INSTALLED FIRST BEFORE PROCEEDING WITH INSTALLATION.
41. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED AND ADJUSTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION UNLESS OTHERWISE SHOWN.
42. ALL DRAIN AND VENT PIPES SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT ACCEPT OTHERWISE NOTED.
43. COORDINATE SLOPING OF FLOORS TO FLOOR DRAINS.

PLUMBING DRAWING LIST

ABBREVIATIONS & SYMBOLS LIST

SYMBOL	ABBREVIATION	DESCRIPTION
	EX CW	EXISTING COLD WATER PIPING
	CW	COLD WATER PIPING
M		WATER METER
		NEW CONNECTION TO EXISTING PIPING
		BALL VALVE
	CV	CHECK VALVE
	NFHB	NON FREEZE HOSE BIBB
		PIPE DOWN/DROP
		PIPE RISE/UP
		P-TRAP
BFP	BFP	BACKFLOW PREVENTER
	EX	EXISTING
	FFE	FINISH FLOOR ELEVATION

PIPE MATERIAL SCHEDULE

PIPING SYSTEM	PIPE MATERIAL	FITTINGS	JOINTS	WORKING PRESSURE
DOMESTIC COLD, HOT WATER & INDIRECT WASTE	TYPE "L" HARD DRAWN COPPER TUBING	WROT COPPER WITH SWEAT SOLDER ENDS	95 % TIN- 5% ANTIMONY SOLDER	125 PSIG. HYDROSTATIC

0 4 8 16 FT

N

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ISSUE	DATE	REVISIONS

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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
Wynnefield Library Courtyard

DRAWING TITLE
PLUMBING GENERAL NOTES

PROJECT NO.	DRAWING NO
1914.06	P000
DATE 01/31/2024	
SCALE AS SHOWN	
DRAWN BY CW	
CHECKED BY CS	FILE:

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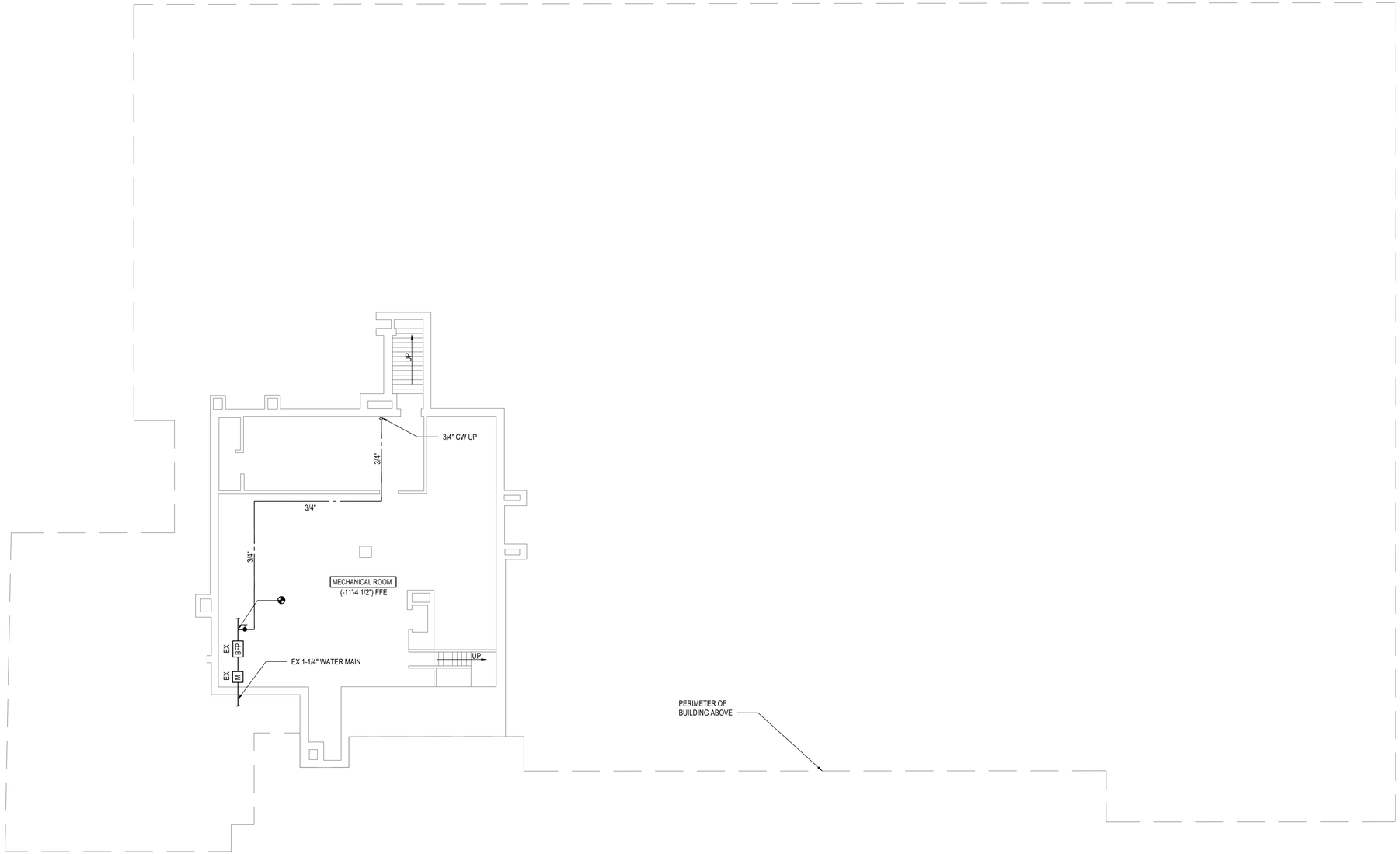

1 BASEMENT PLUMBING PLAN
1/8" = 1'-0"

PLAN NOTES

1. DATUM ELEVATION 0'-0" ON THE STRUCTURAL DRAWINGS = 1ST FLOOR FINISH FLOOR ACTUAL ELEVATION (+243'-0").
2. (...) INDICATES FINISH FLOOR ELEVATION MEASURED FROM DATUM ELEVATION 0'-0".

0 4 8 16 FT

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DRAWING TITLE
BASEMENT PLUMBING PLAN

PROJECT NO.	DRAWING NO
1914.06	P100
DATE 01/31/2024	
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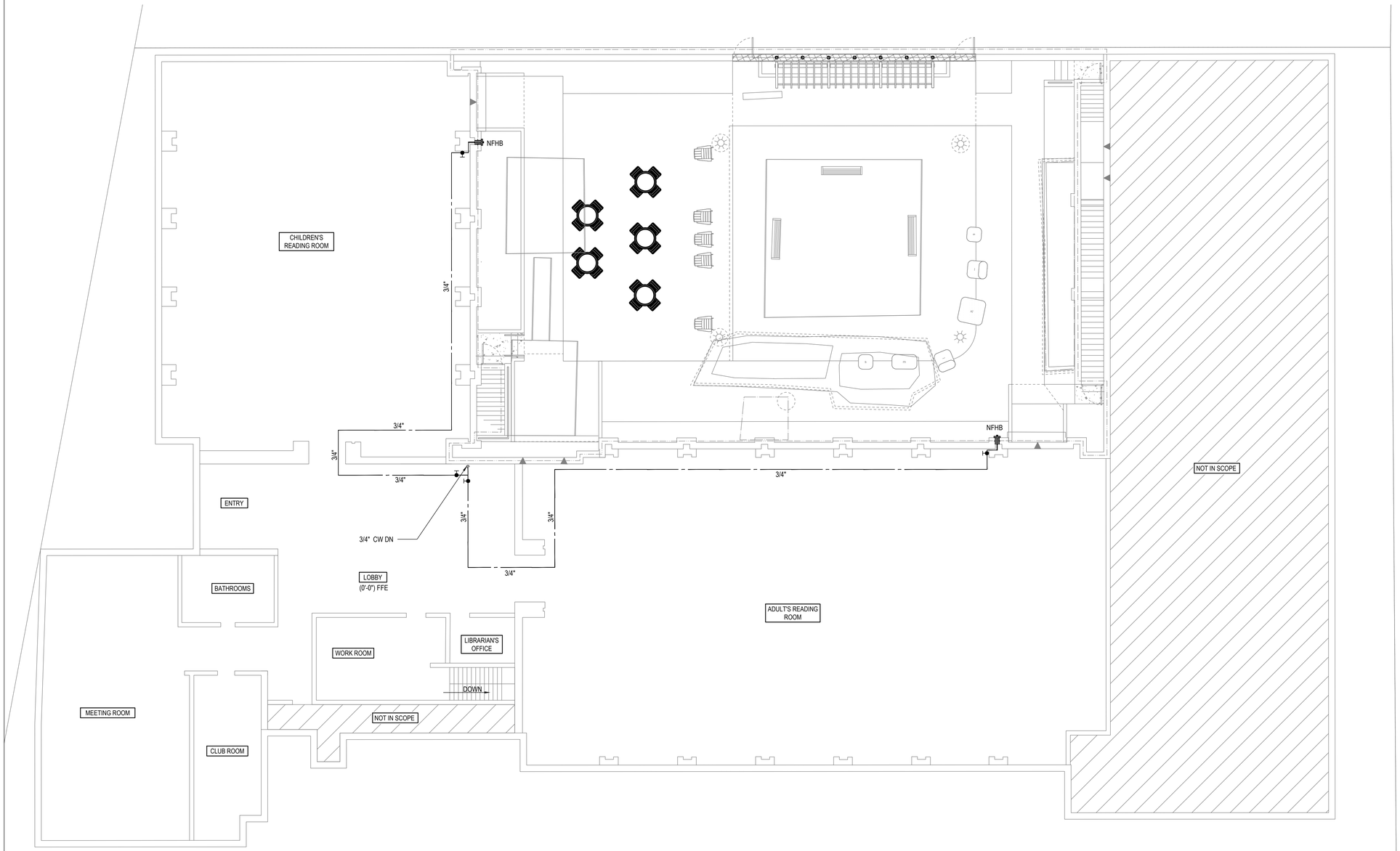

1 COURTYARD PLUMBING PLAN

1/8" = 1'-0"

PLAN NOTES

1. DATUM ELEVATION 0'-0" ON THE STRUCTURAL DRAWINGS = 1ST FLOOR FINISH FLOOR ACTUAL ELEVATION (+243'-0").
2. (...) INDICATES FINISH FLOOR ELEVATION MEASURED FROM DATUM ELEVATION 0'-0".

0 4 8 16 FT

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REVISIONS

ISSUE	DATE	REVISIONS

PHILADELPHIA MANETO

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SEALS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
CAPPY E. A. SABIR
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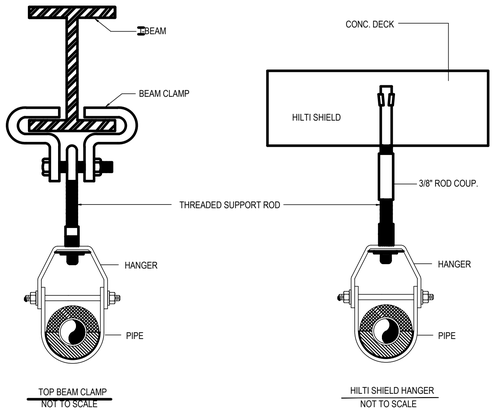
CITY OF PHILADELPHIA
WYNNEFIELD BRANCH LIBRARY
5325 OVERBROOK AVENUE
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
Wynnefield Library Courtyard

DRAWING TITLE
COURTYARD PLUMBING PLAN

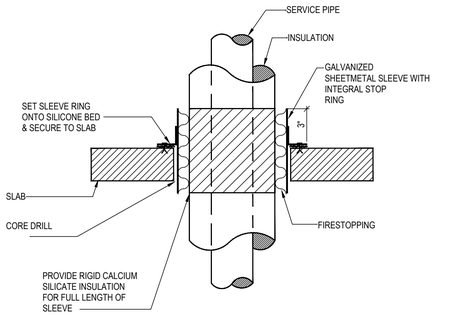
PROJECT NO.	DRAWING NO
1914.06	P101
DATE 01/31/2024	
SCALE AS SHOWN	
DRAWN BY CW	
CHECKED BY CS	FILE:

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



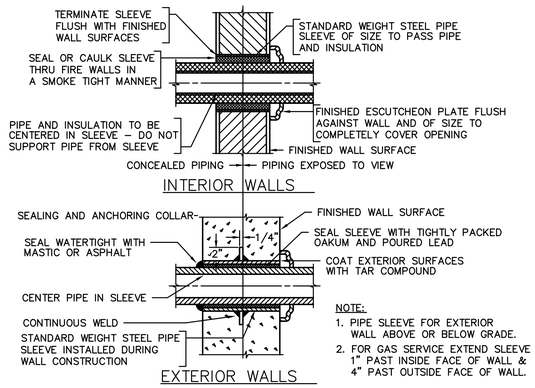
ATTACHMENT DETAIL

NOT TO SCALE



PIPE PENETRATION THROUGH FLOOR DETAIL

NOT TO SCALE

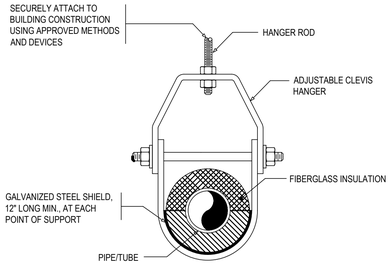


NOTE:

1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE OR BELOW GRADE.
2. FOR GAS SERVICE EXTEND SLEEVE 1" PAST INSIDE FACE OF WALL & 4" PAST OUTSIDE FACE OF WALL.

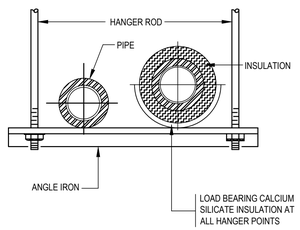
PIPE SLEEVES THRU WALL

NOT TO SCALE



ADJUSTABLE CLEVIS PIPE SUPPORT

FOR INSULATED PIPING/TUBING 1 1/2" AND LARGER
NOT TO SCALE

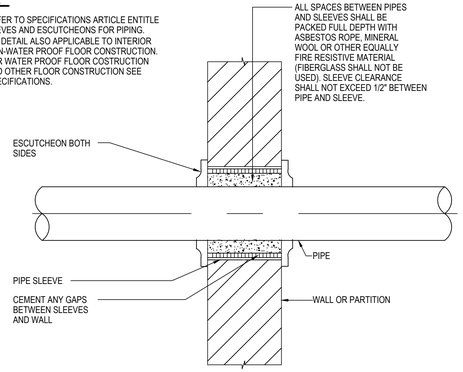


TRAPEZE HANGER

PIPE HANGER DETAILS

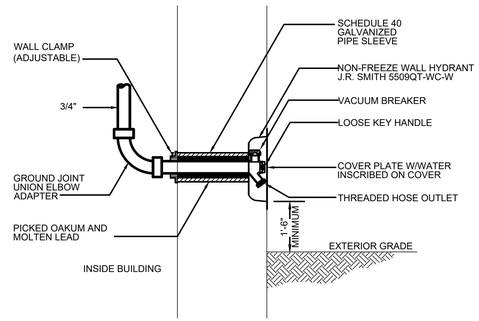
NOTE:

1. REFER TO SPECIFICATIONS ARTICLE ENTITLE SLEEVES AND ESCUTCHEONS FOR PIPING.
2. THIS DETAIL ALSO APPLICABLE TO INTERIOR NON-WATER PROOF FLOOR CONSTRUCTION. FOR WATER PROOF FLOOR CONSTRUCTION AND OTHER FLOOR CONSTRUCTION SEE SPECIFICATIONS.



DETAIL OF PIPING PIERCING REQUIRED FIRE RATED PARTITIONS AND WALL.

NOT TO SCALE



NON-FREEZE WALL HYDRANT DETAIL

NOT TO SCALE

0 4 8 16 FT

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PROJECT NO.	DRAWING NO
1914.06	P200
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