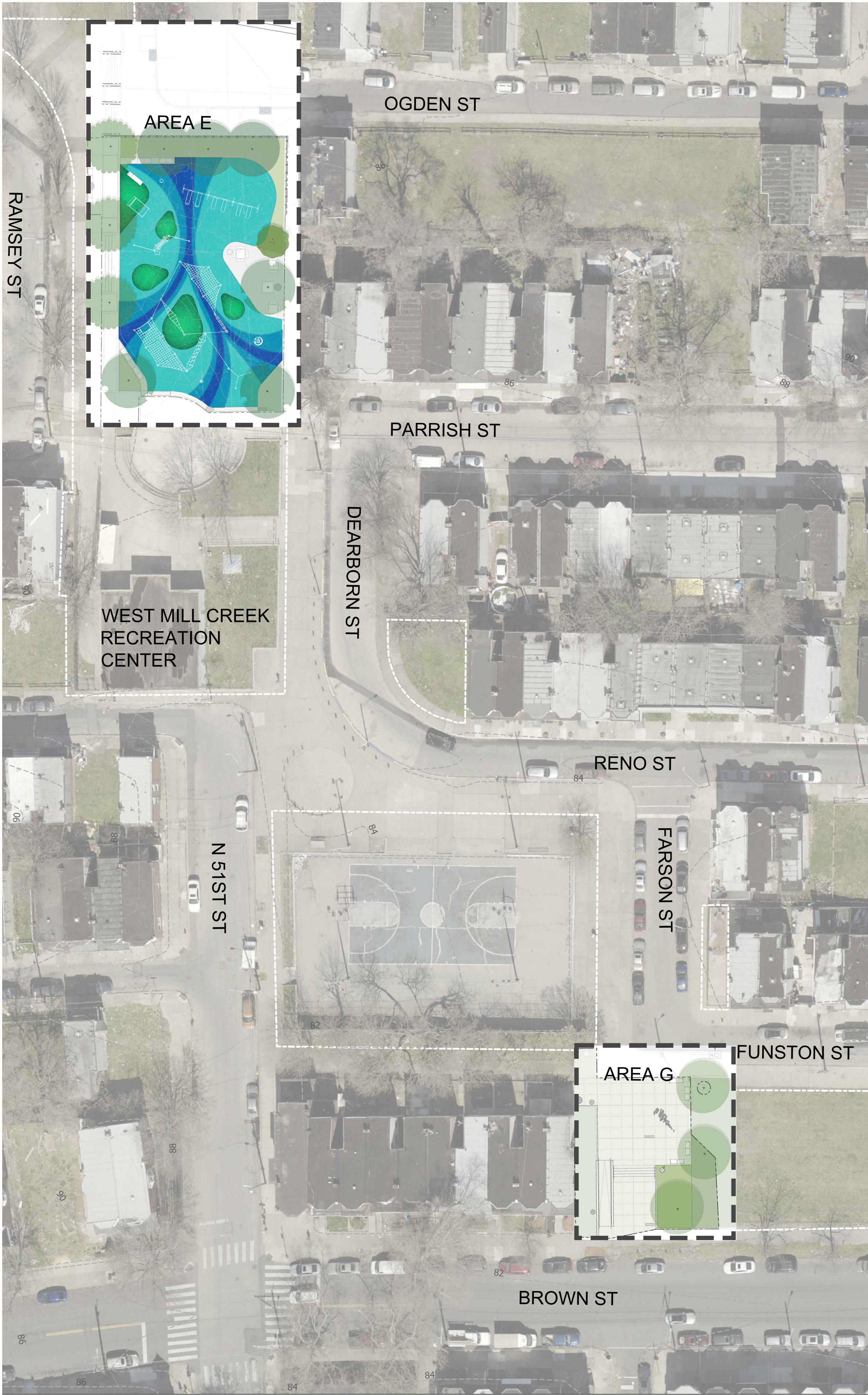


Y:\Projects 2024\2409--West Mill Creek E & G Site Improvements\CAD\3CD\OLIN\Plotsheets\G_000--Cover Sheet.dwg; Sato, Takashi 6/10/2025 9:31:20 PM



WEST MILL CREEK PLAYGROUND AREAS E&G

CONSTRUCTION DOCUMENTS 100% - 05/09/2025

CITY OF PHILADELPHIA
PHILADELPHIA PARKS & RECREATION

MAYOR - CHERELLE PARKER

MANAGING DIRECTOR - ADAM K. THIEL

COMMISSIONER - PHILADELPHIA PARKS AND
RECREATION - SUSAN SLAWSON

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C-202	Demolition Plan	Area G
C-301	Grading Plan	Area E
C-302	Grading Plan	Area G
C-401	Erosion and Sediment Control Plan	Area E
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C-403	Erosion and Sediment Control Details	
C-404	Erosion and Sediment Control Notes (1 of 2)	
C-405	Erosion and Sediment Control Notes (2 of 2)	
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L810	Details	Site Stairs, Ramp, and Handrails
L820	Details	Fences
L830	Details	Paving
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WEST MILL CREEK PLAYGROUND AREAS E & G

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MEP:
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No.	Date	Description
1	07/31/2024	SCHEMATIC DESIGN 100%
2	10/25/2024	DESIGN DEVELOPMENT 100%
3	05/09/2025	CONSTRUCTION DOCUMENTS 100%



COVER SHEET

Scale: NA
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

G000

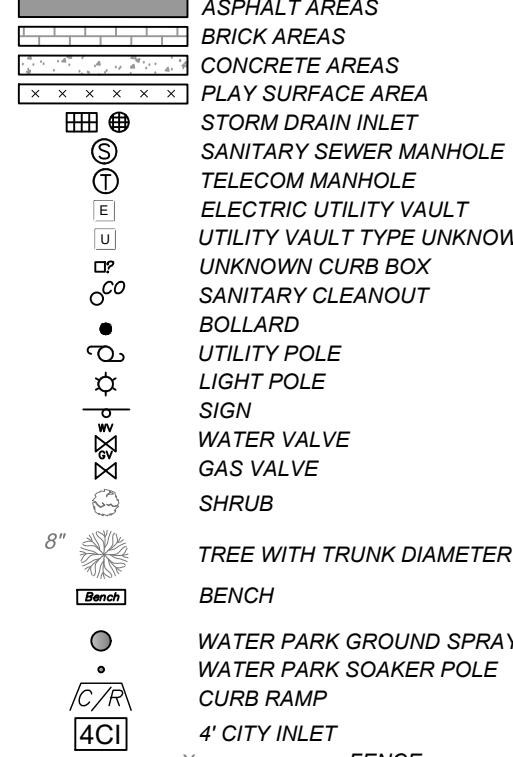
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NOTES:

- TOPOGRAPHIC INFORMATION SHOWN IS BASED ON A FIELD SURVEY PERFORMED BY SCI-TEK CONSULTANTS, INC., COMPLETED IN APRIL 2024.
- HORIZONTAL DATUM: PA STATE PLANE COORDINATES (SOUTH ZONE) NAD83(2011); VERTICAL DATUM: CITY OF PHILADELPHIA GRID NORTH, BEARINGS AND ELEVATIONS WERE DERIVED FROM THE KEYNET GPS VRS NETWORK.
- CITY OF PHILADELPHIA VERTICAL DATUM BASED ON A BENCHMARK PROVIDED BY THE CITY OF PHILADELPHIA. PRIMARY VERTICAL BENCHMARK ESTABLISHED BY CITY OF PHILADELPHIA IS CPH1, A MAG NAIL WITH AN ELEV. 88.61 FEET.
- SURVEY MEASUREMENTS WERE MADE IN US SURVEY FEET (US FT).
- CONTOURS SHOWN WERE PRODUCED FROM AN ACTUAL GROUND SURVEY. CONTOUR INTERVAL IS 1 FOOT.
- THIS PLAN IS NOT VALID UNLESS IT CONTAINS THE SIGNATURE AND SEAL OF THE PROFESSIONAL LAND SURVEYOR.
- SANITARY AND STORM SEWER INFORMATION (PIPE SIZE, MATERIAL AND INVERT ELEVATION) WAS OBTAINED FROM FIELD-LOCATED STRUCTURES, WHERE ACCESSIBLE AND/OR OBSERVABLE AND MAY NOT BE UNIFORM THROUGHOUT THE RUN CONNECTING THE STRUCTURES. THE UNDERGROUND PIPE RUNS WERE NOT SURVEYED AND MAY NOT BE STRAIGHT BETWEEN STRUCTURES AS SHOWN. SOME OF THE STRUCTURES WERE FILLED WITH DEBRIS AND/OR WATER AT THE TIME OF SURVEY AND THEREFORE PIPE CONNECTIVITY, INVERT ELEVATION, SIZE, AND MATERIAL COULD NOT BE ASCERTAINED. ALTHOUGH DUE DILIGENCE WAS EXERCISED IN LOCATING STRUCTURES, IT IS POSSIBLE THAT INTERMEDIATE STRUCTURES MAY EXIST THAT ARE NOT SHOWN DUE TO OBSCURITY DURING THE SURVEY.
- UNDERGROUND UTILITY LOCATIONS SHOWN ARE BASED ON A COMBINATION OF SURVEYED UTILITY APPURTENANCES IN THE FIELD, SURVEYED MARKINGS ON THE GROUND AND/OR INFORMATION PROVIDED BY UTILITY COMPANIES THAT RESPONDED THROUGH THE PA ONE CALL SYSTEM. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND UTILITIES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, UTILITY LOCATION REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE. THEREFORE, SCI-TEK MAKES NO REPRESENTATION AS TO THE COMPLETENESS OR ACCURACY OF THE PROVIDED MARKINGS WITH RESPECT TO THE ACTUAL LOCATIONS OF THE UNDERGROUND UTILITIES.
- RIGHT-OF-WAY DISCLAIMER: THE RIGHT-OF-WAY (ROW) AND PROPERTY BOUNDARIES DEPICTED IN THIS PLAN SET WERE NOT SURVEYED AND ARE BASED ON PROPERTY PARCEL DATA PROVIDED BY THE DEPARTMENT OF RECORDS. THIS DATA IS PUBLICLY AVAILABLE ON OPENDATAPHILLY.ORG AND IS INTENDED FOR REFERENCE PURPOSES ONLY. THE ROW LOCATION MAY BE INACCURATE AND SHOULD NOT BE RELIED UPON FOR PRECISE MEASUREMENTS OR LEGAL DETERMINATIONS. FOR OFFICIAL ROW VERIFICATION, PLEASE REFER TO THE APPROPRIATE CITY AGENCIES AND RECORDED PROPERTY DOCUMENTS.
- PWD DRAINAGE RIGHT-OF-WAY DISCLAIMER: THE PWD DRAINAGE RIGHT-OF-WAY WAS NOT FIELD-SURVEYED AS PART OF THIS PROJECT. THE LOCATION OF THE EXISTING SEWER AND ASSOCIATED RIGHT-OF-WAY HAS BEEN SHOWN BASED ON INFORMATION PROVIDED BY PWD. THE ACCURACY OF THIS INFORMATION HAS NOT BEEN INDEPENDENTLY VERIFIED AND IS SUBJECT TO CONFIRMATION IN THE FIELD.

EXISTING CONDITIONS LEGEND



ABBREVIATIONS

CONC	CONCRETE
ELEV	ELEVATION
INV	INVERT
MH	MANHOLE
SS	SANITARY SEWER

UTILITIES SERVICES INFORMATION

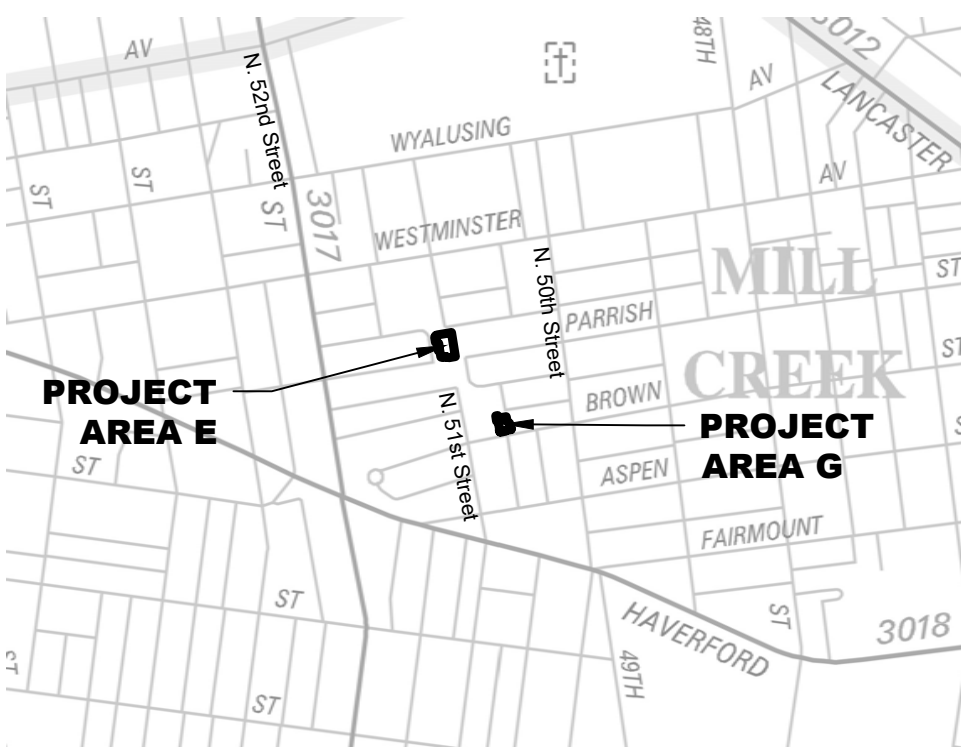
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Angelina Nock-Wallace (main contact)
830 S. Schuylkill Avenue, Philadelphia, PA 19146
(267) 533-1658
Email: Angelina.Nock-Wallace@exeloncorp.com

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Tom Marro Philadelphia Streets Department City Plans Unit
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Email: Tom.Marro@phila.gov

PHILADELPHIA CITY WATER DEPARTMENT (PD)
PWD Water/Sewer Design Branch
William Dobbins
Email: PWD.EDR@phila.gov

PHILADELPHIA GAS WORKS (PZ)
Rebecca Mann
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Email: Rebecca.Mann@pgworks.com

VERIZON PENNSYLVANIA LLC (YA)
Brian M. Magee Manager, OSPS
900 Race Street, 11th Floor Philadelphia, PA 19107
(215) 351-6051; C: (610) 368-7786
Email: brian.m.magee@verizon.com



LOCATION MAP

1" = 1000'



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Structural:
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(484) 895-3131

MEP:
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Philadelphia, PA 19104
(856) 320-8100

No.	Date	Description
07/31/2024	DESIGN DEVELOPMENT 100%	
10/25/2024	DESIGN DEVELOPMENT 100%	
3/19/2025	PWD COMMENTS	

Existing Conditions Plan
(Area E)

C-101

Scale: AS NOTED
Date: T.S.W
Drawn: J.B.
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Project No.:

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FY25-WEST-8011-01

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MEP:

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No.	Date	Description
	07/31/2024	DESIGN DEVELOPMENT 100%
	10/25/2024	DESIGN DEVELOPMENT 100%
	3/19/2025	PWD COMMENTS

Existing Conditions Plan (Area G)

C-102

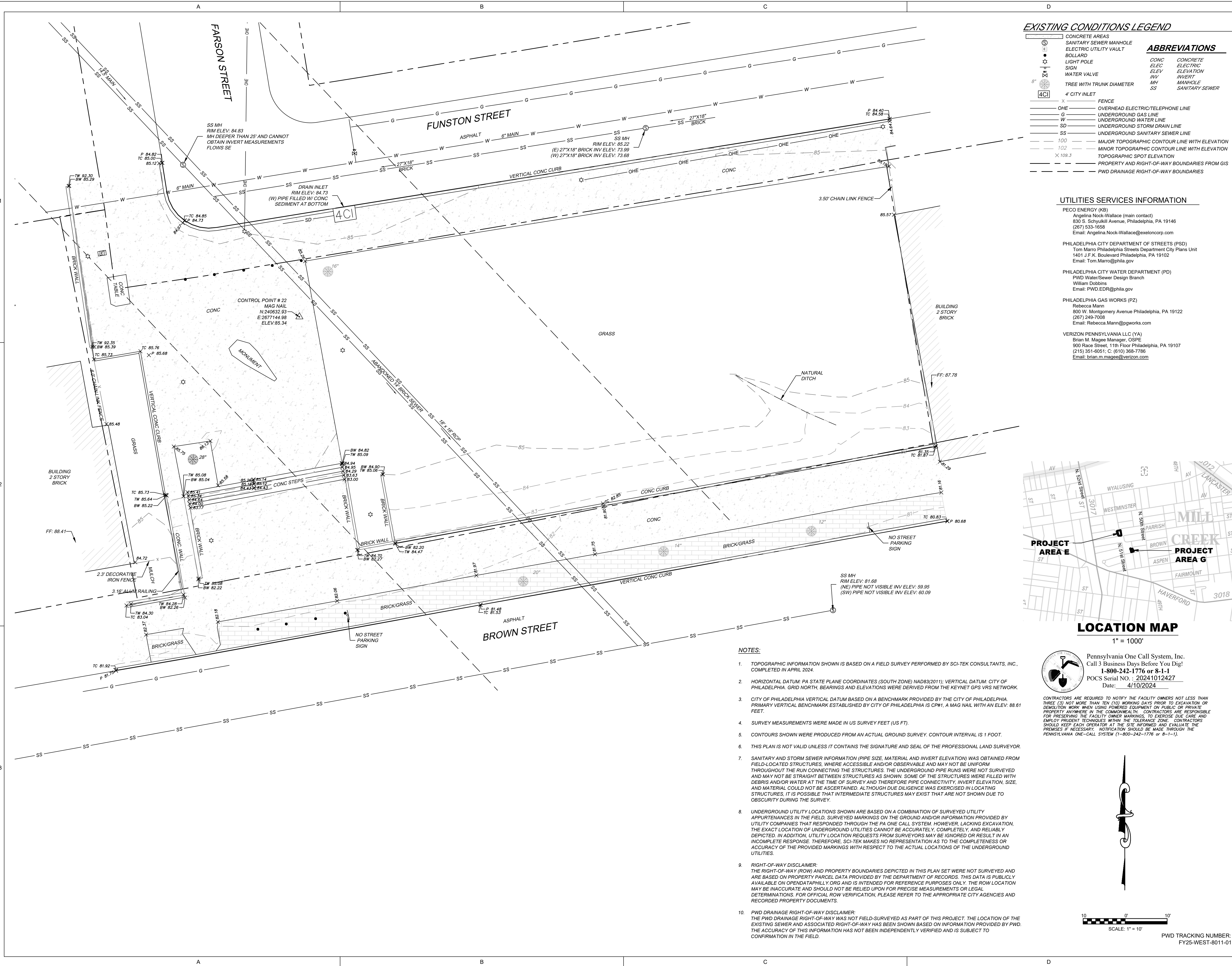
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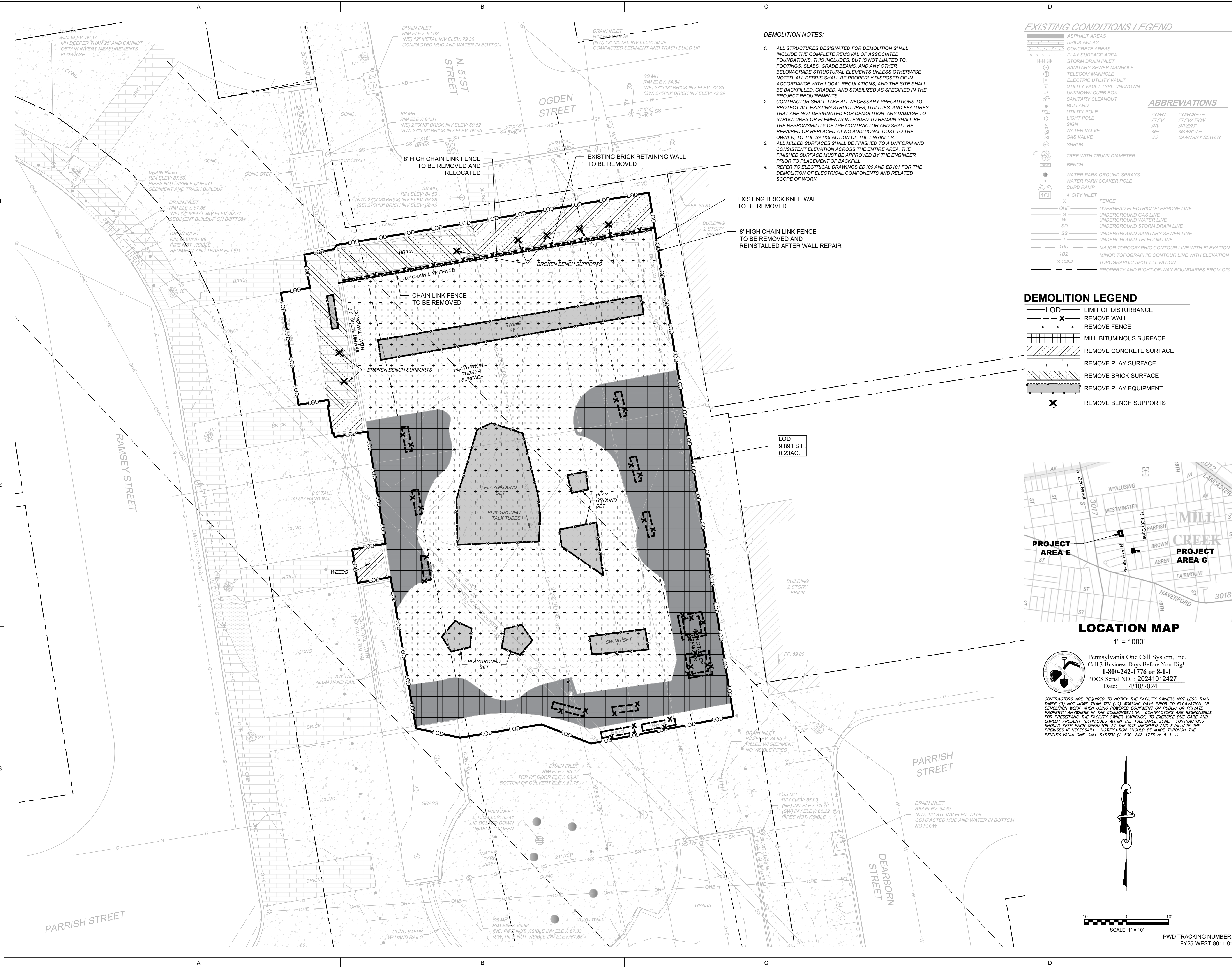
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No.	Date	Description
	07/31/2024	DESIGN DEVELOPMENT 100%
	10/25/2024	DESIGN DEVELOPMENT 100%
	3/19/2025	PWD COMMENTS

Demolition Plan
(Area E)

C-201

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Project No.: 2409



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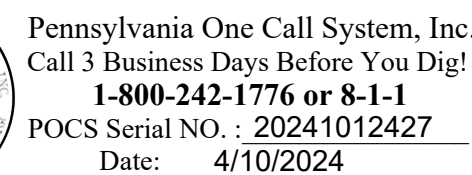
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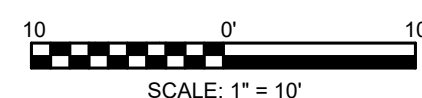
1" = 1000'



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- DEMOLITION NOTES:

1. ALL STRUCTURES DESIGNATED FOR DEMOLITION SHALL INCLUDE THE COMPLETE REMOVAL OF ASSOCIATED FOUNDATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, FOOTINGS, SLABS, GRADE BEAMS, AND ANY OTHER FOUNDATION ELEMENTS. ALL FOUNDATION ELEMENTS NOT OTHERWISE NOTED, ALL DEBRIS SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS, AND THE SITE SHALL BE BACKFILLED, GRADED, AND STABILIZED AS SPECIFIED IN THE PROJECT REQUIREMENTS.
2. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING STRUCTURES, UTILITIES, AND FEATURES THAT ARE NOT DESIGNATED FOR DEMOLITION, ANY DAMAGE TO EXISTING STRUCTURES OR UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.
3. ALL MILLED SURFACES SHALL BE FINISHED TO A UNIFORM AND CONSISTENT ELEVATION. THE FINISHED SURFACE MUST BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF BACKFILL.
4. REFER TO ELECTRICAL DRAWINGS ED100 AND ED101 FOR THE DETAILING OF ELECTRICAL COMPONENTS AND RELATED SCOPE OF WORK.



PWD TRACKING NUMBER:
FY25-WEST-8011-01

Demolition Plan
(Area G)

C-202

Scale: AS NOTED

Date: _____

Drawn: T.S.W

Checked: J.B.

Project No.: 2409

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WEST MILL CREEK PLAYGROUND AREAS E & G

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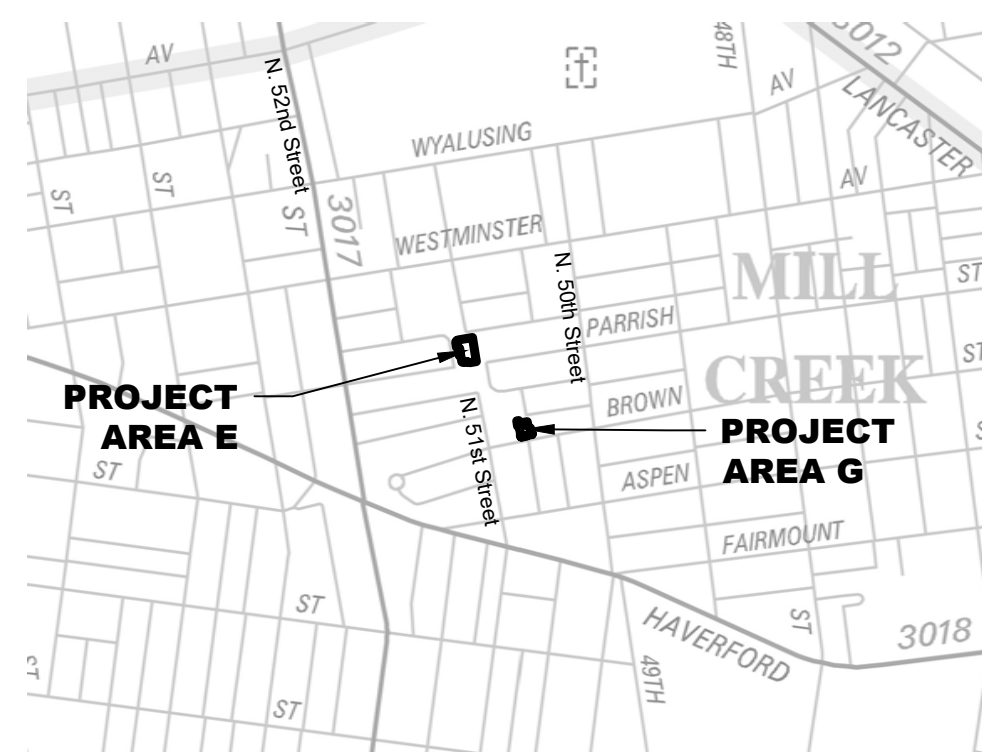
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LOCATION MAP

1" = 1000'

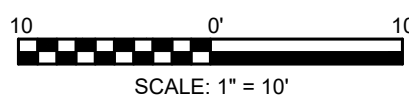
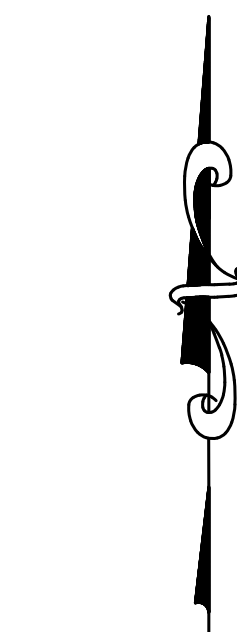


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GRADING NOTES:

1. ALL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND APPLICABLE LOCAL REGULATIONS. FINAL GRADES SHALL PROMOTE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND PREVENT PONDING. CONTRACTOR SHALL ENSURE SMOOTH TRANSITIONS BETWEEN EXISTING AND PROPOSED GRADES, AND ALL DISTURBED AREAS SHALL BE STABILIZED UPON COMPLETION OF GRADING ACTIVITIES. ANY DEVIATIONS FROM THE PROPOSED GRADING MUST BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
3. ALL STRUCTURES LOCATED WITHIN THE DRAINAGE RIGHT-OF-WAY MUST BE CONSTRUCTED WITH SURFACE-MOUNTED FOUNDATIONS IN ACCORDANCE WITH PWD REQUIREMENTS.



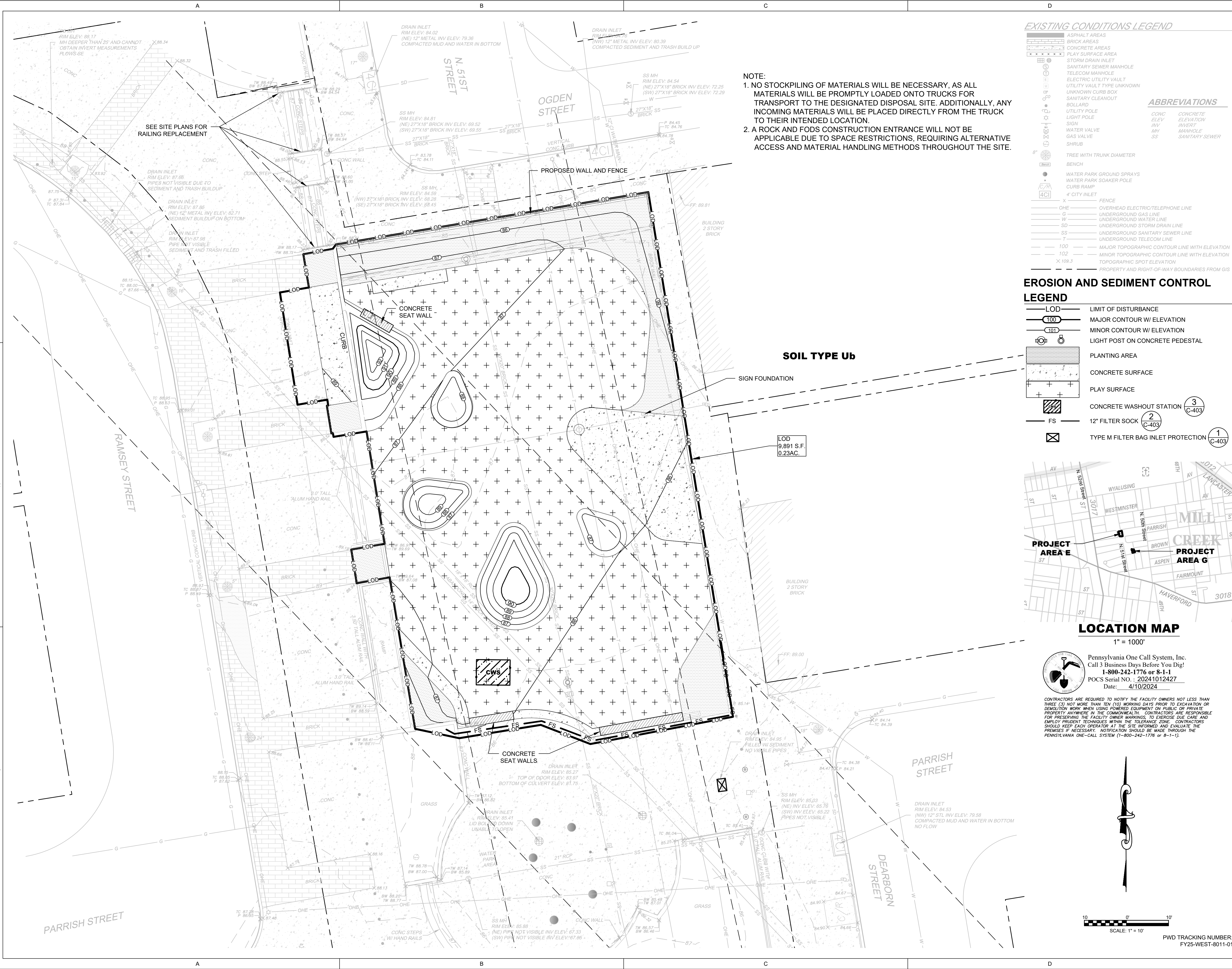
PWD TRACKING NUMBER:
FY25-WEST-8011-01

Grading Plan (Area G)

C-302

Scale: AS NOTED
Date:
Drawn: T.S.W
Checked: J.B.
Project No.: 2409

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MEP:
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No.	Date	Description
07/31/2024	DESIGN DEVELOPMENT 100%	
10/25/2024	DESIGN DEVELOPMENT 100%	
3/19/2025	PWD COMMENTS	

Erosion and Sediment Control Plan
(Area E)

C-401

Scale: AS NOTED
Date: T.B.D.
Drawn: T.S.W.
Checked: J.R.S.
Project No.: 2409

PWD TRACKING NUMBER:
FY25-WEST-8011-01

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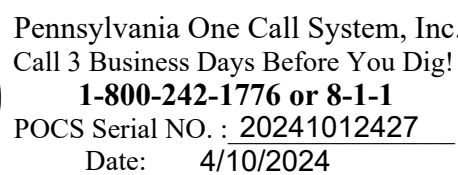
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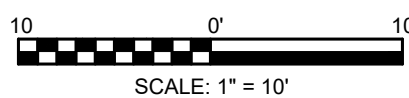
1" = 1000'



CONTRACTORS ARE REQUIRED TO NOTIFY THE FACILITY OWNERS NOT LESS THAN THREE (3) NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO EXCAVATION OR DEMOLITION WORK WHEN USING POWERED EQUIPMENT ON PUBLIC OR PRIVATE PROPERTY ANYWHERE IN THE COMMONWEALTH. CONTRACTORS ARE RESPONSIBLE FOR PRESERVING THE FACILITY OWNER MARKINGS, TO EXERCISE DUE CARE AND TO USE PROPER TECHNIQUE WITHIN THE TOLERANCE ZONE. CONTRACTORS SHOULD ADVISE EACH OTHER OF THE SITE INFORMATION TO EVALUATE THE PREMISES IF NECESSARY. NOTIFICATION SHOULD BE MADE THROUGH THE PENNSYLVANIA ONE-CALL SYSTEM (1-800-242-1776 or 8-1-1).

NOTE:

1. NO STOCKPILING OF MATERIALS WILL BE NECESSARY, AS ALL MATERIALS WILL BE PROMPTLY LOADED ONTO TRUCKS FOR TRANSPORT TO THE DESIGNATED DISPOSAL SITE. ADDITIONALLY, ANY INCOMING MATERIALS WILL BE PLACED DIRECTLY FROM THE TRUCK TO THEIR INTENDED LOCATION.
2. A ROCK AND FODS CONSTRUCTION ENTRANCE WILL NOT BE APPLICABLE DUE TO SPACE RESTRICTIONS, REQUIRING ALTERNATIVE ACCESS AND MATERIAL HANDLING METHODS THROUGHOUT THE SITE.



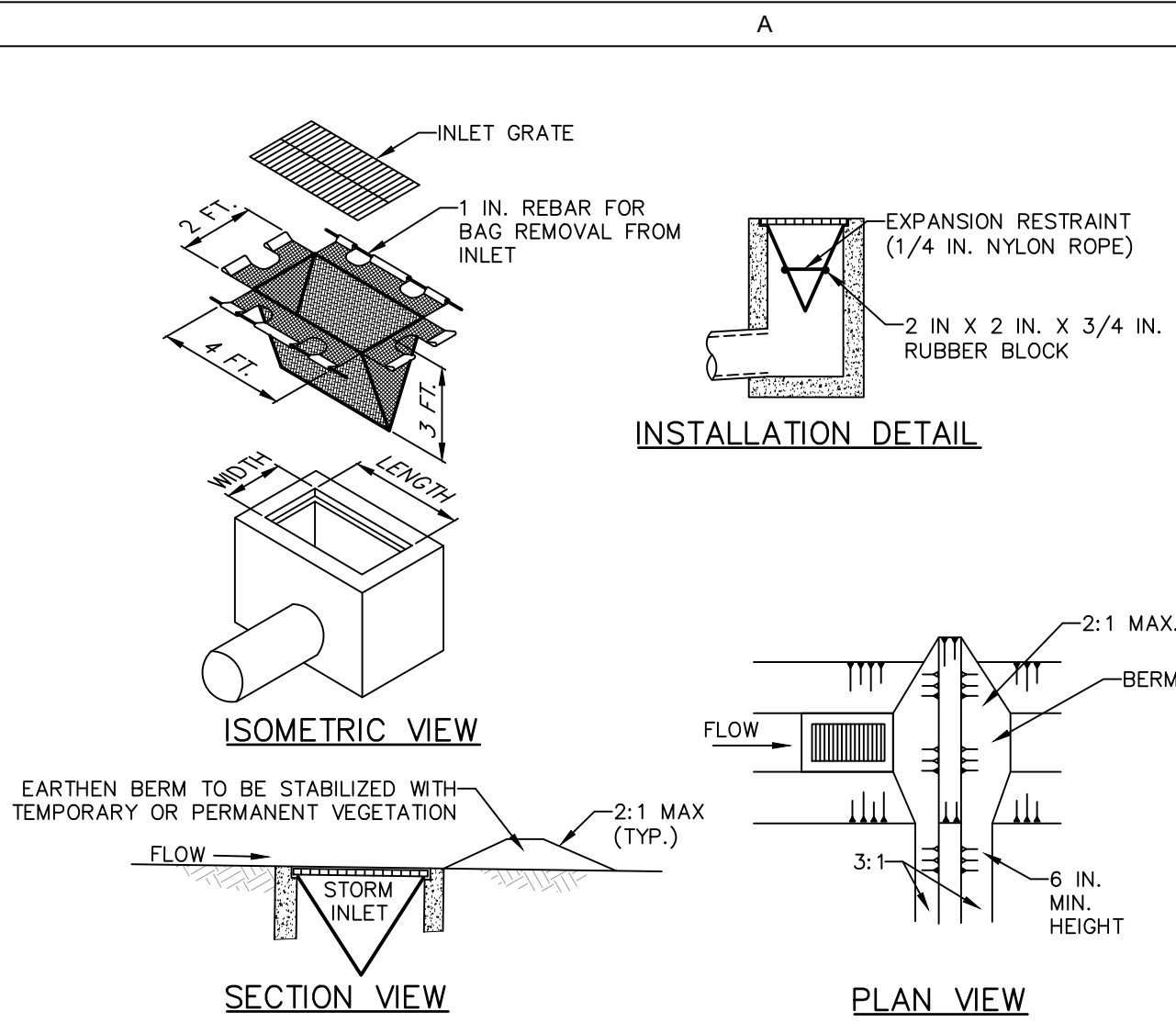
PWD TRACKING NUMBER:
FY25-WEST-8011-01

Erosion and Sediment Control Plan
(Area G)

C-402

Scale: AS NOTED
Date: T.B.D.
Drawn: T.S.W
Checked: J.R.S.
Project No.: 2409

S:\customers\2024\24-1165 REBUILD West Mill Creek Playground E+G\09_CA0D\dwgProductionPlans\24-1165-SHT-E&S Plan.dwg; LoFranz Hemphill 5/13/2025 12:33:18 PM



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

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

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

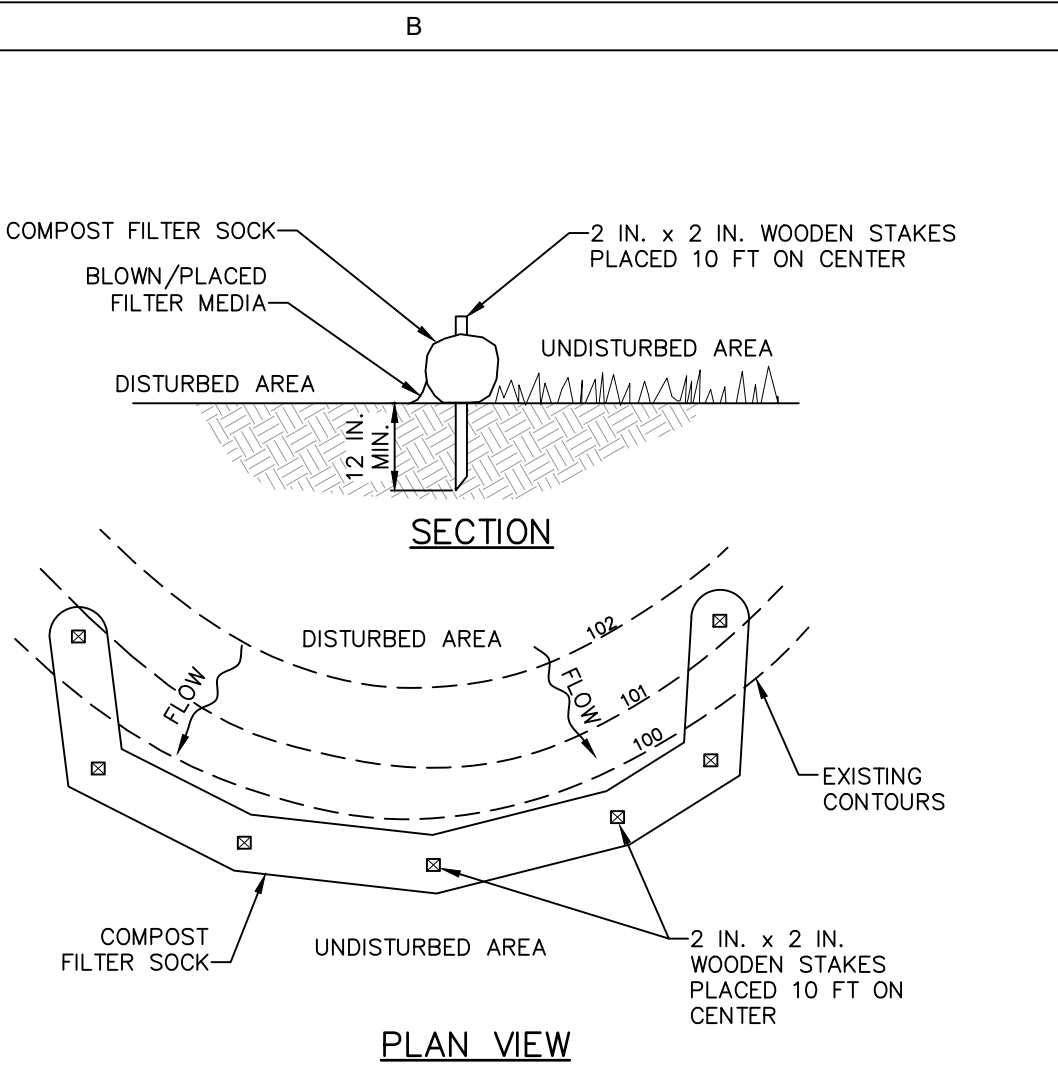
AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-16
FILTER BAG INLET PROTECTION - TYPE M INLET
NOT TO SCALE

1 **TYPE M FILTER BAG INLET PROTECTION**
C-401 SCALE: N.T.S. DEP Standard Construction Drawings



NOTES:

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

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

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

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

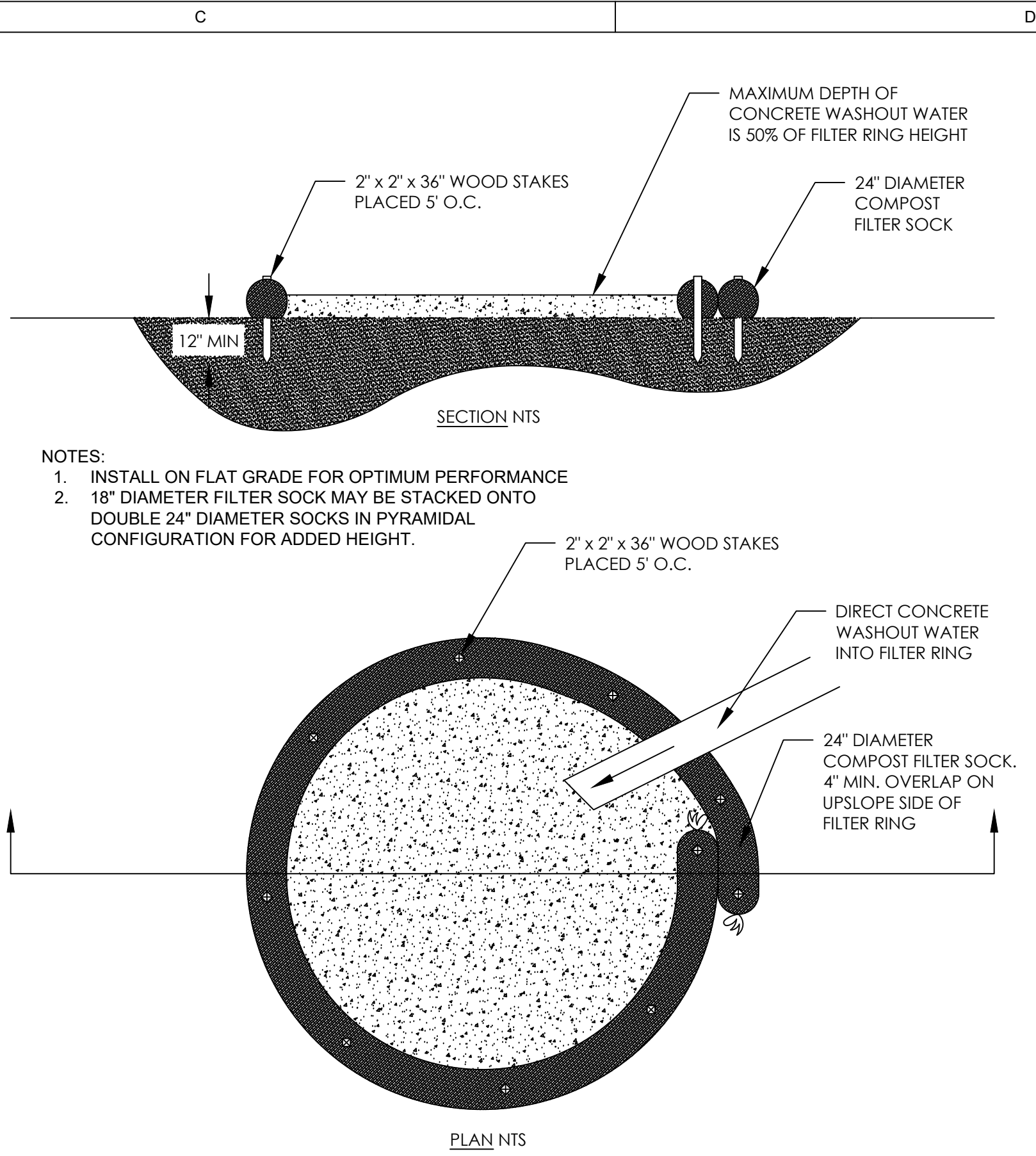
COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

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

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

STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK
NOT TO SCALE

2 **COMPOST FILTER SOCK**
C-401 C-402 SCALE: N.T.S. DEP Standard Construction Drawings



A suitable impervious geomembrane shall be placed at the location of the washout prior to installing the socks.

3 **TYPICAL COMPOST FILTER SOCK WASHOUT INSTALLATION**
C-401 C-402 SCALE: N.T.S. Diamond Sock

WEST MILL CREEK PLAYGROUND AREAS E & G

5100 Parrish St.
Philadelphia, PA 19139

OLIN

LANDSCAPE ARCHITECTURE / URBAN DESIGN / PLANNING
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(856) 320-8100

No.	Date	Description
	07/31/2024	DESIGN DEVELOPMENT 100%
	10/25/2024	DESIGN DEVELOPMENT 100%
	3/19/2025	PWD COMMENTS

Erosion and Sediment Control
Details

C-403

Scale: AS NOTED
Date: T.B.D.
Drawn: T.S.W
Checked: J.R.S.
Project No.: 2409

PWD TRACKING NUMBER:
FY25-WEST-8011-01

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EROSION AND SEDIMENTATION CONTROL NARRATIVE

REFERENCE SOURCE:

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEPARTMENT), "EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL" ISSUED MARCH 2012, WITH SUBSEQUENT CORRECTIONS AND ADDITIONS.

THE FOLLOWING E&S BEST MANAGEMENT PRACTICES (BMPS) WILL FUNCTION TO CONTROL RUNOFF AND PROVIDE SEDIMENT REMOVAL DURING DEVELOPMENT AT THE SUBJECT SITE AND CONSTRUCTION OF THE ASSOCIATED STORMWATER FACILITIES. THESE BMPS ARE:

- 1. ROCK OR FOODS CONSTRUCTION ENTRANCE.
- 2. COMPOST FILTER SOCK.
- 3. FILTER BAG INLET PROTECTION.
- 4. CONCRETE WASHOUT STATION.

COMPOST FILTER SOCK:

FILTER SOCK IS USED TO CONTROL RUNOFF FROM DISTURBED AREAS WHEN THE RUNOFF IS IN THE FORM OF SHEET FLOW AND THE DISCHARGE IS TO A STABLE AREA. THIS BEST MANAGEMENT PRACTICE (BMP) IS ABACT (ANTIDEGRADATION BEST AVAILABLE COMBINATION OF TECHNOLOGIES) FOR HIGH QUALITY (HQ) AND EXCEPTIONAL VALUE (EV) WATERSHEDS. FILTER SOCK CONSISTS OF A BIODEGRADABLE OR PHOTODEGRADABLE MESH TUBE FILLED WITH A COARSE COMPOST FILTER MEDIA THAT MEETS CERTAIN PERFORMANCE CRITERIA (E.G., HYDRAULIC FLOW THROUGH RATE, TOTAL SOLIDS REMOVAL EFFICIENCY, TOTAL SUSPENDED SOLIDS REMOVAL EFFICIENCY, TURBIDITY REDUCTION, NUTRIENT REMOVAL EFFICIENCY, METALS REMOVAL EFFICIENCY, AND MOTOR OIL REMOVAL EFFICIENCY).

DESIGN CRITERIA:

- THE SEDIMENTATION REMOVAL PROCESS ASSOCIATED WITH FILTER SOCK INVOLVES BOTH FILTERING AND DEPOSITION FROM SETTLING. THIS IS DIFFERENT THAN OTHER METHODS USING ONLY PONDING FOR DEPOSITION OF SEDIMENT. PONDING OCCURS WHEN WATER FLOWING TO THE SOCK ACCUMULATES FASTER THAN IT CAN FLOW THROUGH THE SOCK.
- LEVEL CONTOUR: PLACE FILTER SOCK ON LEVEL CONTOURS TO ASSIST IN DISSIPATING FLOW INTO SHEET FLOW RATHER THAN CONCENTRATED FLOWS. DO NOT CONSTRUCT SOCK SUCH THAT IT CONCENTRATES RUNOFF OR CHANNEL WATER. SHEET FLOW OF WATER SHOULD BE PERPENDICULAR TO THE SOCK AT IMPACT AND RELATIVELY UNCONCENTRATED.
- FLAT SLOPES: WHEN POSSIBLE, PLACE SOCK AT A FIVE (5) FEET OR GREATER DISTANCE AWAY FROM THE TOE OF SLOPE IN ORDER FOR THE WATER COMING FROM THE SLOPE TO MAXIMIZE SPACE AVAILABLE FOR SEDIMENT DEPOSIT.
- FLOW AROUND ENDS: IN ORDER TO PREVENT WATER FLOWING AROUND THE ENDS OF FILTER SOCK, THE ENDS OF THE SOCK MUST BE CONSTRUCTED POINTING UPSLOPE SO THE ENDS ARE AT A HIGHER ELEVATION. BE SURE TO STAKE THE ENDS OF THE SOCK TO PREVENT MOVEMENT DURING HIGH FLOW EVENTS.
- RATIO OF SLOPE LENGTH TO FILTER SOCK SIZE: THE SIZE (DIAMETER) OF THE SILT SOCK IS DEPENDENT ON THE SLOPE OF THE GROUND AND THE SLOPE LENGTH ABOVE THE SOCK. FIGURE 4.2 (MAXIMUM PERMISSIBLE SLOPE LENGTH ABOVE COMPOST FILTER SOCKS) IN THE DEPARTMENT'S "EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL" (MARCH 2012) SHALL BE USED TO SELECT SOCK DIAMETER.

MATERIALS:

COMPOSTED PRODUCTS: COMPOST USED FOR FILTER SOCK SHALL BE WEED FREE AND DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATERIAL. THE COMPOST SHALL BE PRODUCED USING AN AEROBIC COMPOSTING PROCESS MEETING CFR 503 REGULATIONS, INCLUDING TIME AND TEMPERATURE DATA INDICATING EFFECTIVE WEED SEED, PATHOGEN AND INSECT LARVAE KILL.

THE COMPOST SHALL BE FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. NON-COMPOSTED PRODUCTS WILL NOT BE ACCEPTED. TEST METHODS FOR THE ITEMS BELOW SHOULD FOLLOW USCC TMECC GUIDELINES FOR LABORATORY PROCEDURES:

- PH - 5.0 - 8.0 IN ACCORDANCE WITH TMECC 04.11-A, "ELECTROMETRIC PH DETERMINATIONS FOR COMPOST."
- PARTICLE SIZE - 99% PASSING A 2" SIEVE AND A MINIMUM OF 60% GREATER THAN THE 3/8" SIEVE, IN ACCORDANCE WITH TMECC 02.02-B, "SAMPLE SIEVING FOR AGGREGATE SIZE CLASSIFICATION." (NOTE - IN THE FIELD, PRODUCT COMMONLY IS BETWEEN 1/2" AND 2" PARTICLE SIZE.).
- MOISTURE CONTENT OF LESS THAN 60 PERCENT IN ACCORDANCE WITH STANDARDIZED TEST METHODS FOR MOISTURE DETERMINATION,
- MATERIAL SHALL BE RELATIVELY FREE (<1 PERCENT BY DRY WEIGHT) OF INERT OR FOREIGN MAN-MADE MATERIALS, AND
- A SAMPLE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO BEING USED AND MUST COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

INSTALLATION:

- DISPERSING FLOW: SHEET FLOW AND RUNOFF SHOULD NOT EXCEED HEIGHT OF THE SOCK CAPACITY IN MOST STORM EVENTS. IF OVERFLOW OF THE SOCK IS A POSSIBILITY, LARGER SOCK SHOULD BE CONSTRUCTED, OR OTHER POSSIBLE SEDIMENT CONTROL TOOLS MAY BE USED. ALTERNATIVELY, A SECOND SET OF SOCK MAY BE CONSTRUCTED OR USED IN COMBINATION WITH COMPOST BLANKETS TO PREVENT SEDIMENT FROM MOVING.
- STAKES SHALL BE INSTALLED / DRIVEN THROUGH THE MIDDLE OF THE FILTER SOCK ON 10-FOOT CENTERS USING 2" x 2" x 3' WOODEN STAKES.

- IN THE EVENT THAT STAKING IS NOT POSSIBLE (SUCH AS ON ASPHALT OR CONCRETE SURFACES), HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SILT SOCK TO HELP STABILIZE DURING RAINFALL RUNOFF EVENTS. STAKING DEPTH FOR SAND AND SILT LOAM SOILS SHALL BE 12 INCHES AND 8 INCHES FOR CLAY SOILS.
- LOOSE COMPOST MAY BE BACKFILLED ALONG THE UPSLOPE SIDE OF THE FILTER SOCK, FILLING THE SEAM BETWEEN THE SOIL SURFACE AND THE DEVICE, IMPROVING FILTRATION AND SEDIMENT RETENTION.
- FILTER SOCK IS NOT TO BE USED IN PERENNIAL, INTERMITTENT OR EPHEMERAL STREAMS.

INSPECTION AND MAINTENANCE:

- FILTER SOCK WILL BE INSPECTED WEEKLY AND AFTER EVERY PRECIPITATION EVENT. ANY NECESSARY REPAIRS WILL BE MADE WITHIN 24 HOURS OF INSPECTION.
- ACCUMULATED SEDIMENTS WILL BE REMOVED AS REQUIRED TO KEEP THE SOCK FUNCTIONAL. IN ALL CASES, DEPOSITS WILL BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVEGROUND HEIGHT OF THE SOCK.
- SEDIMENT ACCUMULATED BEHIND THE SOCK WILL BE PLACED IN A TEMPORARY STOCKPILE AREA LOCATED UPSLOPE AND BEHIND A BARRIER OR SEDIMENT REMOVAL STRUCTURE. ALL SEDIMENT REMOVED FROM BEHIND THE FILTER SOCK WILL BE IMMEDIATELY HAULED TO THE ABOVE REFERENCED BARRIER OR SEDIMENT REMOVAL STRUCTURE.
- ONCE THE SEDIMENT (REMOVED FROM BEHIND THE SOCK) HAS DRIED, IT SHALL BE SPREAD AND SEEDED ACCORDING TO THE APPROVED SEEDING AND MULCHING SPECIFICATIONS OUTLINED ELSEWHERE IN THESE E&S NOTES.
- ALL SEDIMENT REMOVED FROM BEHIND THE SOCK, THAT WILL NOT BE PLACED ON-SITE, WILL BE DISPOSED IN A DEPARTMENT-APPROVED LANDFILL OR A COUNTY CONSERVATION DISTRICT APPROVED SOIL / ROCK DISPOSAL AREA.
- BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER SIX (6) MONTHS AND PHOTODEGRADABLE SILT SOCKS REPLACED AFTER ONE (1) YEAR.

VEGETATION:

- FOR PERMANENT AREAS, SEEDED FILTER SOCK ALLOWS VEGETATION TO BE ESTABLISHED DIRECTLY IN THE SOCK AND IMMEDIATELY IN FRONT AND BACK OF THE SOCK AT A DISTANCE OF FIVE (5) FEET. VEGETATION ON AND AROUND THE SOCK WILL ASSIST IN SLOWING DOWN WATER FOR FILTRATION. THE OPTION OF ADDING VEGETATION WILL BE AT THE DISCRETION OF THE ENGINEER. NO OTHER SOIL AMENDMENTS OR FERTILIZER ARE REQUIRED FOR VEGETATION ESTABLISHMENT.

CONCRETE WASHOUT STATION:

CONCRETE WASHOUT WATER IS A SLURRY CONTAINING TOXIC METALS THAT IS CAUSTIC AND CORROSIVE. IF CONCRETE WASHOUT WATER IS SPILLED ONTO THE GROUND, IT CAN RUN OFF THE CONSTRUCTION SITE AND ENTER STORM DRAINS OR SURFACE WATERS. CONCRETE WASHOUT WATER CAN ALSO PERCOLATE THROUGH THE SOIL AND ALTER SOIL CHEMISTRY AND CONTAMINATE GROUNDWATER. THE BMP OBJECTIVE FOR CONCRETE WASHOUT WATER IS TO COLLECT AND RETAIN ALL THE WASHOUT WATER AND SOLIDS IN A LEAK-PROOF CONTAINER.

FOR PROJECTS ON WHICH CONCRETE WILL BE POURED OR OTHERWISE FORMED ON-SITE, A WASHOUT FACILITY MUST BE PROVIDED FOR THE CLEANING OF CHUTES, MIXERS, AND HOPPERS OF THE DELIVERY VEHICLES. DIFFERENT TYPES OF WASHOUT STRUCTURES ARE AVAILABLE FOR COLLECTING AND RETAINING WASHOUT WATER. A PORTABLE PRE-FABRICATED VINYL WASHOUT CONTAINER (OR APPROVED EQUAL) WILL BE USED AT THE SUBJECT SITE.

CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.

THE VINYL CONCRETE WASHOUT CONTAINER SHALL BE INSTALLED AT A LOCATION CONVENIENT TO THE LOCATION WHERE CONCRETE IS BEING POURED. A TYPICAL LOCATION FOR THE VINYL CONCRETE WASHOUT CONTAINER IS SHOWN ON THE E&S DRAWING. A VINYL CONCRETE WASHOUT CONTAINER DETAIL IS SHOWN ON THE E&S DETAIL SHEET.

INSTALLATION:

- PRE-FABRICATED VINYL WASHOUT CONTAINERS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATION.
- POSITION THE CONTAINER ON A FLAT GRADE (I.E., SLOPES NOT EXCEEDING 2 PERCENT) AT A LOCATION BEST SUITED FOR THE CONSTRUCTION PROJECT.
- THE WASHOUT CONTAINER SHALL NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES, OR WATERBODIES.
- IF HEAVY RAINS ARE ANTICIPATED, THE WASHOUT CONTAINER SHALL BE COVERED TO AVOID OVERFLOW DURING THE STORM.

INSPECTION AND MAINTENANCE:

- THE CONCRETE WASHOUT SHALL BE INSPECTED DAILY AND AFTER EVERY RAINFALL EVENT TO CHECK FOR LEAKS OR DAMAGE TO THE CONTAINER BY CONSTRUCTION ACTIVITIES. A DAMAGED CONTAINER SHALL BE REMOVED AND REPLACED IMMEDIATELY.
- DURING DAILY INSPECTION, DETERMINE IF THE FILTER BAG IN THE VINYL CONTAINER IS FULL AND IN NEED OF REPLACEMENT.
- INSERT A NEW, EMPTY FILTER BAG INSIDE THE VINYL CONTAINER. WHEN THE VINYL CONTAINER IS FILLED WITH FILTERED WATER, ALLOW THE WATER TO EITHER EVAPORATE OR TREAT THE WATER WITH WATER GELLING GRANULES, ALLOW THE WATER TO GEL, AND THEN REMOVE THE BAG WITH THE GELLED WATER FOR PROPER DISPOSAL.

- CONCRETE SOLIDS, THE FILTER BAG, AND GELLED WATER SHALL BE PROPERLY DISPOSED DEPARTMENT APPROVED LANDFILL OR LOCAL CONSERVATION DISTRICT APPROVED SOIL / ROCK DISPOSAL AREA.

GENERAL E&S MAINTENANCE

IN ADDITION TO THE REQUIREMENTS FOR THE FREQUENCY OF INSPECTIONS INDICATED IN THE ABOVE SUBSECTIONS, INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROL FACILITIES AND EQUIPMENT SHALL OCCUR AT LEAST WEEKLY AND AFTER EACH RAINFALL EVENT.

TO PERFORM AS DESIGNED, THE TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE MAINTAINED IN A SATISFACTORY CONDITION. MAINTENANCE SHALL BE PERFORMED AS SPECIFIED IN THE PLANS, REPORTS, AND AS DIRECTED BY THE APPROPRIATE REGULATING AGENCIES.

AN EROSION AND SEDIMENT CONTROL INSPECTION LOG WILL BE COMPLETED (AND MAINTAINED ON-SITE) FOR EACH INSPECTION CONDUCTED AT THE PROJECT DURING THE CONSTRUCTION PHASE. THE INSPECTION LOG WILL DOCUMENT EACH INSPECTION AND ALL E&S BMP REPAIR, OR REPLACEMENT AND MAINTENANCE ACTIVITIES. OTHER INFORMATION CONTAINED ON THE INSPECTION LOG WILL INCLUDE, DATE AND TIME OF THE INSPECTION, INSPECTION NUMBER, INSPECTOR NAME, TITLE, AND SIGNATURE OF THE INSPECTOR.

RESPONSIBILITY FOR FILL MATERIALS

THE CONTRACTOR SELECTED FOR CONSTRUCTION SHALL BE RESPONSIBLE TO PERFORM ENVIRONMENTAL DUE DILIGENCE AND DETERMINE THAT ALL FILL MATERIAL IMPORTED TO THE SITE OR EXPORTED FROM THE SITE MEETS THE DEPARTMENT OF ENVIRONMENTAL PROTECTION'S DEFINITION OF CLEAN FILL. CLEAN FILL IS DEFINED AS UNCONTAMINATED, NONWATER-SOLUBLE, NONDECOMPOSTABLE, INERT SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF OWNERSHIP AND USE HISTORY OF PROPERTY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.

E&S PLAN / PCSM PLAN CONSISTENCY

THE DIMENSIONS AND ELEVATIONS SHOWN ON THE E&S DRAWINGS ARE CONSISTENT WITH THOSE USED IN THE POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN (PCSM).

IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL THE CONFLICT IS RESOLVED BY THE DESIGN ENGINEER.

THERE ARE NO STREAMS WITHIN THE LIMITS OF DISTURBANCE AND, AS WILL BE DISCUSSED BELOW, THERE ARE NO EXISTING OR PROPOSED RIPARIAN BUFFERS WITHIN THE LIMITS OF DISTURBANCE. THE NEAREST PERENNIAL STREAM IS LOCATED 1.62 MILES AWAY.

MINIMIZE EXTENT AND DURATION OF EARTH DISTURBANCE

THE EROSION AND SEDIMENT CONTROL PLAN MINIMIZES THE EXTENT OF EARTH DISTURBANCE (LAND CLEARING AND GRADING) TO THE MAXIMUM EXTENT POSSIBLE SINCE ONLY THE SMALLEST FOOTPRINT NECESSARY TO ACCOMPLISH THE GOALS OF THE FACILITY WILL BE DISTURBED. ALSO (TO THE EXTENT PRACTICABLE) THE EXISTING VEGETATION (SENSITIVE RESOURCES SUCH AS THE TREES ON THE PROJECT PROPERTY) WILL BE PROTECTED. THE PROJECT WILL BE COMPLETED AS QUICKLY AS POSSIBLE (I.E., DURATION OF THE PROJECT MINIMIZED), AND ONLY THOSE AREAS NECESSARY FOR BUILDING CONSTRUCTION AND SITE ACCESS (AND ASSOCIATED STORMWATER CONTROLS) WILL BE DISTURBED. ANTICIPATED DURATION OF THE CONSTRUCTION IS APPROXIMATELY TWELVE (12) MONTHS.

MAXIMIZE PROTECTION OF EXISTING DRAINAGE FEATURES AND VEGETATION

THERE ARE NO NATURAL DRAINAGE FEATURES ON THE SUBJECT SITE. DRAINAGE FROM THE PROJECT AREA IS COLLECTED IN THE EXISTING COMBINED SEWER SYSTEM VIA EXISTING CATCH BASINS AND DISCHARGED TO THE LOCAL SANITARY AUTHORITY'S (ALCOSAN) TREATMENT PLANT ALONG THE ALLEGHENY RIVER. THE PRINCIPAL DRAINAGE FEATURE IN THE GENERAL VICINITY OF THE PROPOSED DEVELOPMENT IS THE ALLEGHENY RIVER, LOCATED APPROXIMATELY 1.67 MILES TO THE NORTH OF THE PROJECT SITE.

THE PROJECT SITE IS SITUATED IN AN URBAN SETTING AND THERE ARE NO SENSITIVE ENVIRONMENTAL RESOURCES / FEATURES ON THE PROPERTY. THERE ARE A FEW TREES ON THE SITE THAT WILL BE DISTURBED AS A RESULT OF THE RENOVATION WORK, BUT THE EXISTING TREES ARE NOT CONSIDERED WOODLANDS. ADDITIONALLY, TREES WILL BE PLANTED AS PART OF PLANNED LANDSCAPING FOR THE FINISHED SITE. NO UNNECESSARY DISTURBANCE OF TREES IS PLANNED AND ONLY THOSE TREES NECESSARY FOR SUCCESSFUL COMPLETION OF THE RENOVATION PROJECT WILL BE IMPACTED. THE ONLY SIGNIFICANT TYPE OF VEGETATION THAT WILL BE AFFECTED BY THE PROPOSED RENOVATION PROJECT IS THE NATURAL GRASS SURFACE (TURF) THAT CURRENTLY COVERS THE FIELD SITUATED WHERE THE MAJORITY OF THE PROPOSED PARKING LOT WILL BE LOCATED.

WHERE INSTALLATION OF POST-CONSTRUCTION STORMWATER MANAGEMENT CONTROLS AND EROSION AND SEDIMENTATION CONTROLS ARE NECESSARY, EXISTING VEGETATION WILL BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE.

MINIMIZE SOIL COMPACTION

TO MINIMIZE SOIL COMPACTION, THE EQUIPMENT USED FOR CONSTRUCTION WILL BE TAILORED TO THE SIZE OF THE JOB. NO UNNECESSARILY LARGE / HEAVY EQUIPMENT WILL BE USED, AND CONSTRUCTION SEQUENCING WILL BE SUCH THAT UNNECESSARY PASSES OF THE EQUIPMENT OVER THE GROUND SURFACE WILL BE MINIMIZED.

RIPIARIAN FOREST BUFFERS

THERE ARE NO STREAMS OR NATURAL DRAINAGE WAYS IN THE IMMEDIATE VICINITY OF PROJECT SITE. DRAINAGE FROM THE AREA IS COLLECTED IN THE EXISTING COMBINED SEWER SYSTEM VIA EXISTING CATCH BASINS AND DISCHARGES TO THE ALLEGHENY RIVER.

THE PRINCIPAL DRAINAGE FEATURE IN THE GENERAL VICINITY OF THE PROPOSED DEVELOPMENT IS THE ALLEGHENY RIVER LOCATED APPROXIMATELY 1.5 MILES TO THE NORTH OF THE PROJECT SITE.

SINCE THE PROPOSED SITE CONSTRUCTION IS NOT WITHIN A RIPARIAN BUFFER, THE REQUIREMENT TO REQUEST A WAIVER FOR CONSTRUCTION ACTIVITY WITHIN A RIPARIAN BUFFER IS NOT APPLICABLE. LIKEWISE, THE REQUIREMENT TO SHOW AREAS PROPOSED TO BE WAIVED FROM RIPARIAN BUFFER OBLIGATIONS ON THE PLAN DRAWINGS IS ALSO NOT APPLICABLE

DESCRIPTION OF POST CONSTRUCTION STORMWATER BMPS

NO OTHER MEASURES OR CONTROLS ARE PROPOSED THAT PREVENT OR MINIMIZE GENERATION OF INCREASED STORMWATER RUNOFF.

REFER TO THE STORMWATER MANAGEMENT PLAN FOR LOCATIONS OF THE PROPOSED STRUCTURAL STORMWATER BMPS.

LANDSCAPE RESTORATION: LANDSCAPE RESTORATION IS USED FOR ACTIVELY SUSTAINABLE LANDSCAPING PRACTICES THAT ARE IMPLEMENTED OUTSIDE OF RIPARIAN OR OTHER SPECIALLY PROTECTED BUFFER AREAS AND INCLUDES RESTORATION OF FOREST (REFORESTATION) AND / OR MEADOW AND THE CONVERSION OF TURF TO MEADOW.

AREAS LOCATED AROUND THE PROPOSED BUILDING WILL RESTORED AND REPLANTED WITH LANDSCAPING INCLUDING A VARIETY OF SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, BULBS AND GROUNDCOVER. THE AREA OF POST-DEVELOPMENT PERVIOUS COVER IS 13,900 SQUARE FEET (0.32 ACRES).

OTHER STRUCTURAL OR NON-STRUCTURAL BMPS

NO OTHER STRUCTURAL OR NON-STRUCTURAL STORMWATER BMPS ARE NECESSARY TO PREVENT OR MINIMIZE CHANGES IN STORMWATER RUNOFF.

RECYCLING AND DISPOSAL OF MATERIALS

ALL EXCAVATED MATERIALS RESULTING FROM CONSTRUCTION ACTIVITIES AT THE PROJECT SITE AND ACCUMULATED SEDIMENT THAT WILL NOT BE USED ON SITE SHALL BE REMOVED TO A DEPARTMENT AND/OR COUNTY CONSERVATION DISTRICT APPROVED LANDFILL OR SOIL/ROCK DISPOSAL AREA. LIKEWISE, ALL SOIL/FILL MATERIAL THAT ORIGINATES FROM OFF-SITE AREAS SHALL BE APPROVED BY THE DEPARTMENT AND/OR THE COUNTY CONSERVATION DISTRICT.

THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH DEPARTMENT SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.19 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.

REGARDING ANTICIPATED CONSTRUCTION WASTE, ANY CONSTRUCTION DEBRIS (OR DEBRIS RESULTING FROM DEMOLITION OF EXISTING FACILITIES) SUCH AS SCRAP WOOD AND METAL, NAILS, BROKEN CONCRETE, ASPHALT, BRICK, PVC OR METAL PIPE, ETC., WILL BE REMOVED FROM THE SITE AND DISPOSED OF AT A DEPARTMENT AND/OR COUNTY CONSERVATION DISTRICT APPROVED LANDFILL OR SOIL/ROCK DISPOSAL SITE.

WEST MILL CREEK PLAYGROUND AREAS E & G

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No.	Date	Description
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	10/25/2024	DESIGN DEVELOPMENT 100%
	3/19/2025	PWD COMMENTS

Erosion and Sediment Control
Notes (1 of 2)

C-404

Scale: AS NOTED
Date: T.B.D.
Drawn: T.S.W
Checked: J.R.S.
Project No.: 2409

PWD TRACKING NUMBER:
FY25-WEST-8011-01

S:\customers\2024\24-1165 REBUILD West Mill Creek Playground E+G\09_CA0D\dwgProductionPlans\24-1165-SHT-E&S Plan.dwg; LaFranz Hemphill 5/13/2025 12:33:40 PM

A	B	C	D
<div>E&S CONTROL MANUAL APPENDIX C - STANDARD E&S PLAN NOTES</div>			
<div><div>1) ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.</div><div>2) AT LEAST SEVEN (7) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.</div><div>3) AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.</div><div>4) ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.</div><div>5) AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.</div><div>6) CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.</div><div>7) AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.</div><div>8) TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.</div><div>9) IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND / OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND / OR THE REGIONAL OFFICE OF THE DEPARTMENT.</div><div>10) ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.</div><div>11) ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.</div><div>12) THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.</div><div>13) ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.</div><div>14) VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOTS ONTO LOCAL ROADS.</div><div>15) UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRAIDING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.</div><div>16) A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.</div><div>17) SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORKDAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.</div><div>18) ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS AND NOTES.</div></div>	<div><div>19) AREAS WHICH ARE TO RECEIVE TOPSOIL SHALL BE SCARIFIED TO A MINIMUM DEPTH OF THREE (3) TO FIVE (5) INCHES (6 TO 12 INCHES ON COMPACTED SOILS) PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF TWO (2) INCHES OF TOPSOIL.</div><div>20) ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.</div><div>21) ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED NINE (9) INCHES IN THICKNESS.</div><div>22) FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.</div><div>23) FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.</div><div>24) FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.</div><div>25) SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.</div><div>26) ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.</div><div>27) IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN ONE (1) YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN ONE (1) YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.</div><div>28) PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION, CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.</div><div>29) E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.</div><div>30) UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND / OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL / CONVERSION OF THE E&S BMPS.</div><div>31) AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL / CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.</div><div>32) FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND / OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.</div></div> <div><div>SEQUENCE OF BMP INSTALLATION</div><div><div>1. PRIOR TO EARTH DISTURBANCE AND CONSTRUCTION, THE LIMITS OF EARTH DISTURBANCE SHALL BE CLEARLY STAKED-OUT IN ORDER TO DELINEATE THE NPDES PERMIT AREA.</div><div>2. INSTALL CATCH BASIN INLET PROTECTION IN EXISTING SITE CATCH BASINS / DROP INLETS WHEREEVER THERE IS THE POSSIBILITY FOR SEDIMENT-LADEN RUNOFF RESULTING FROM CONSTRUCTION ACTIVITIES TO ENTER THE CATCH BASIN.</div><div>3. ONCE FINAL GRADES HAVE BEEN ACHIEVED, DISTURBED AREAS THAT ARE NOT TO BE COVERED WITH CONCRETE OR ASPHALT WILL BE TOPSOILED, FERTILIZED, SEEDED AND MULCHED ACCORDING TO THE SEEDING AND MULCHING SPECIFICATIONS SHOWN ON THE E&S NOTES. TOPSOIL APPLICATION LAYER SHALL BE A MINIMUM OF TWO (2) INCHES THICK.</div><div>4. COINCIDENT WITH CONSTRUCTION AND PRIOR TO THE FIRST DELIVERY OF CONCRETE TO THE SITE, THE MANUFACTURED VINYL CONCRETE WASHOUT WILL BE INSTALLED AT THE LOCATION SHOWN ON THE E&S PLAN DRAWINGS, OR AS DIRECTED BY THE CONSTRUCTION MANAGER.</div><div>5. IF RAINFALL EVENTS CAUSE EXCAVATION SITES TO BECOME FILLED WITH DIRTY / SEDIMENT-LADEN WATER, THE SEDIMENT LADEN WATER WILL BE PUMPED FROM THE EXCAVATION INTO A PUMPED WATER FILTER BAG.</div><div>6. INSTALL UNDERGROUND UTILITIES. THE LENGTH OF A TRENCH OPENING AT ANY GIVEN TIME SHALL BE HELD TO A MINIMUM. IN NO EVENT WILL THE LENGTH OF OPEN TRENCH EXCEED 100 FEET. TRENCH EXCAVATIONS SHALL ONLY BE MADE FOR THE AMOUNT OF PIPE THAT CAN BE INSTALLED DURING THAT DAY'S ACTIVITY AND SHALL IMMEDIATELY BE BACKFILLED, COMPACTED AND STABILIZED. SURFACE AREAS OF COMPLETED TRENCHES OUTSIDE OF PAVED AREAS WILL BE TOPSOILED, FERTILIZED, SEEDED AND</div></div></div> <div><div>MULCHED ACCORDING TO THE SEEDING AND MULCHING SPECIFICATIONS SHOWN ON THE E&S PLAN AND NARRATIVE. TOPSOIL APPLICATION LAYER SHALL BE A MINIMUM OF TWO (2) INCHES THICK.</div><div>7. ALL TEMPORARY EROSION CONTROL STRUCTURES (IDENTIFIED IN THIS CONSTRUCTION SEQUENCE) WILL BE REMOVED WITHIN TWENTY (20) DAYS AFTER THE CONSTRUCTION AREA HAS BEEN STABILIZED. THE STANDARD FOR VEGETATIVE STABILIZATION IS DEFINED AS A "MINIMUM UNIFORM 70 PERCENT PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION." THIS INCLUDES REMOVAL OF THE COMPOST FILTER SOCK. BIODEGRADABLE SOCK MAY BE CUT OPEN AND FILLER MATERIAL SPREAD ONSITE AS VEGETATIVE GROWTH MEDIUM. NON-BIODEGRADABLE FABRIC, AS WELL AS STAKES AND HARDWARE MUST BE REMOVED TO A PADEP OR COUNTY APPROVED WASTE SITE.</div><div>8. SEED AND MULCH ALL REMAINING DISTURBED AREAS PER PERMANENT SEEDING SPECIFICATIONS.</div><div>9. THE CONSTRUCTION AREA WILL BE PERIODICALLY INSPECTED TO ENSURE THAT VEGETATION HAS BECOME WELL ESTABLISHED. CONTRACTOR TO INCLUDE A TWO-YEAR GUARANTEE ON ALL VEGETATION INSTALLED WITHIN A BMP FOOTPRINT. IF RILLS OR GULLIES (OR OTHER INDICATIONS OF EROSION) OCCUR, THE PROBLEM WILL BE REPAIRED IMMEDIATELY.</div></div>		

PWD TRACKING NUMBER:
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	10/25/2024	DESIGN DEVELOPMENT 100%
	3/19/2025	PWD COMMENTS

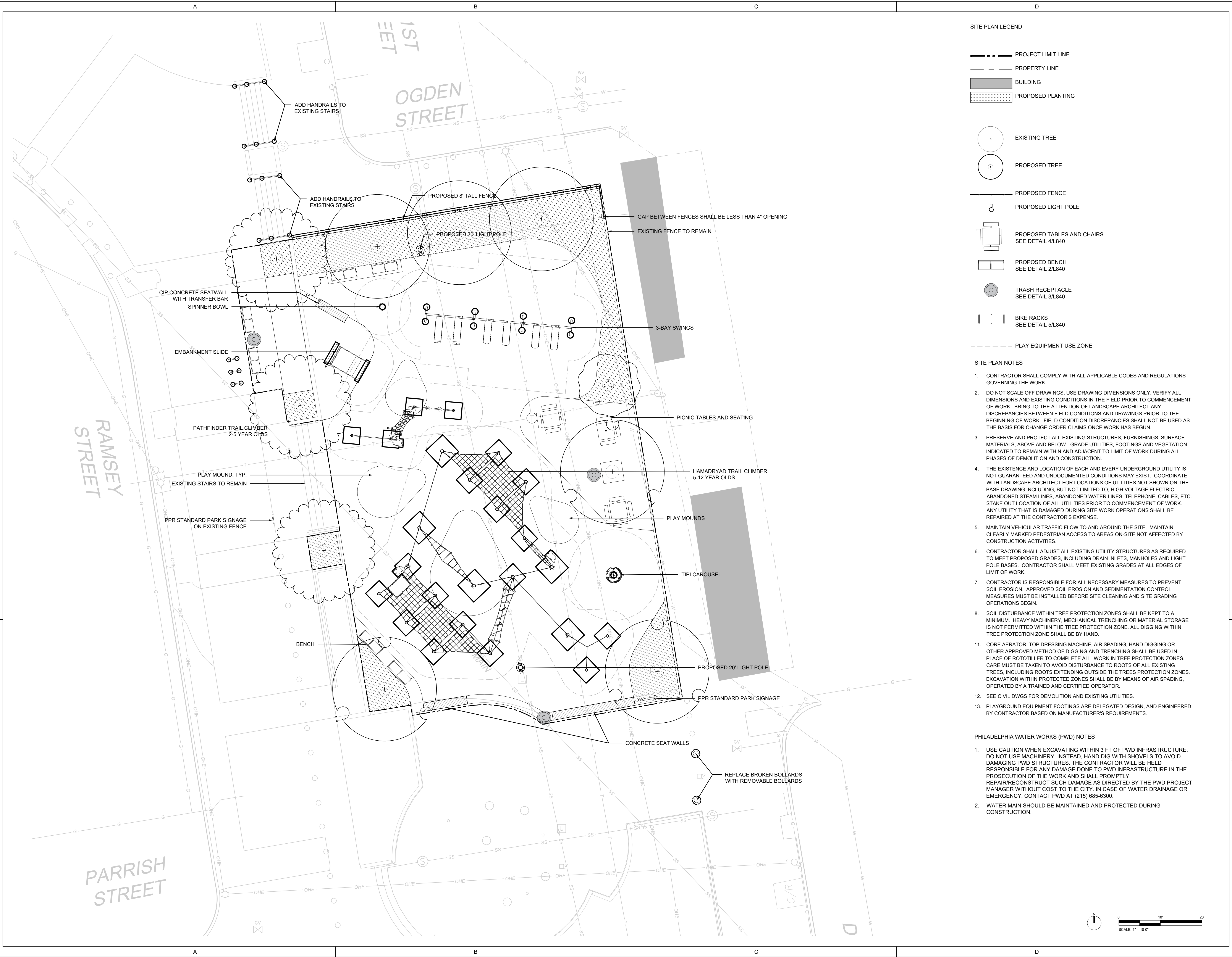
Erosion and Sediment Control
Notes (2 of 2)

C-405

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2	10/25/2024	DESIGN DEVELOPMENT 100%
3	05/09/2025	CONSTRUCTION DOCUMENTS 100%

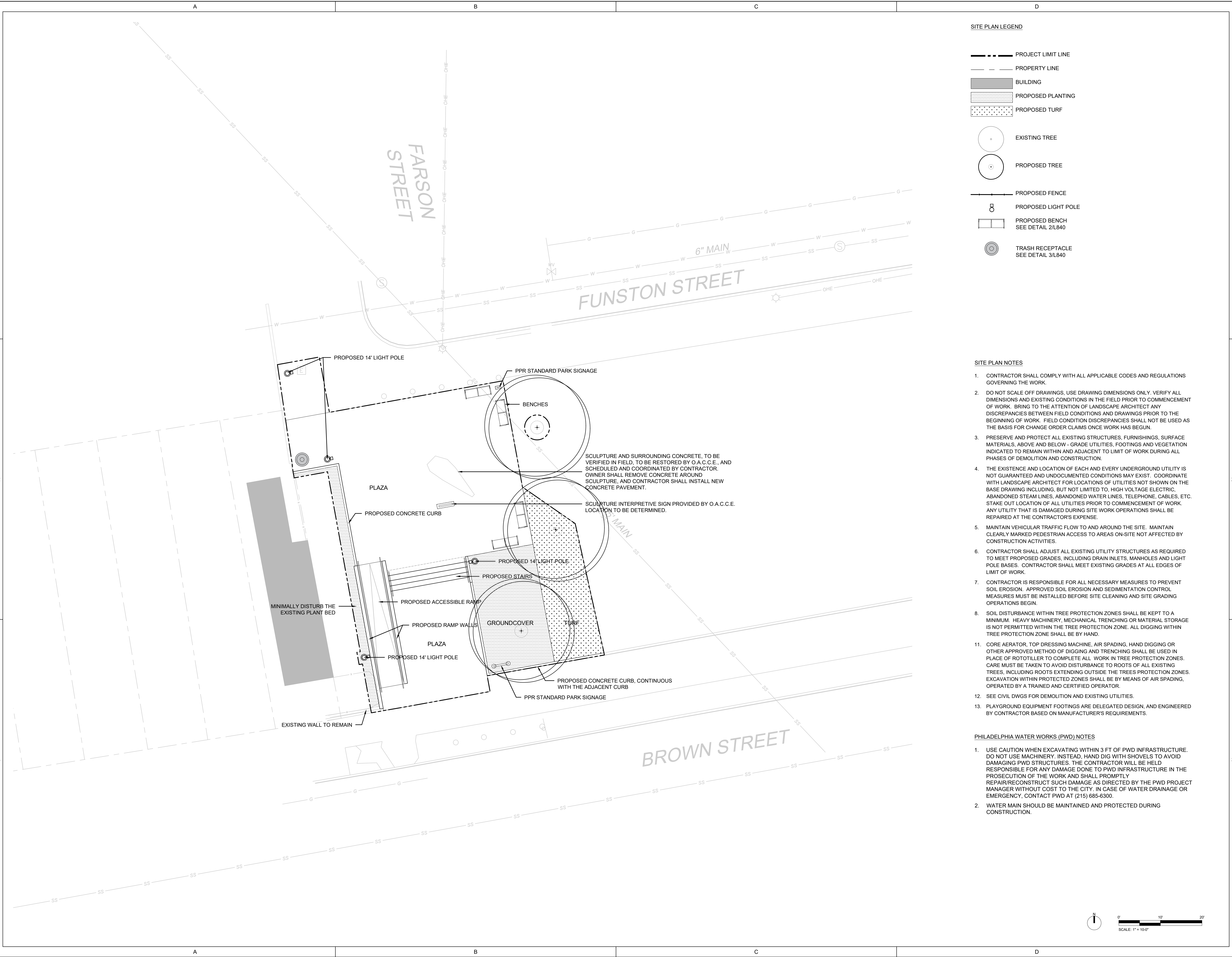


SITE PLAN AREA E

Scale: 1"=10'
Date: 06/06/2025
Drawn: TS
Checked: TS
Project No.: 2409

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3	05/09/2025	CONSTRUCTION DOCUMENTS 100%



SITE PLAN AREA G

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Date: 06/06/2025
Drawn: TS
Checked: TS
Project No.: 2409

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SITE PLAN LEGEND

- PROJECT LIMIT LINE
- PROPERTY LINE
- BUILDING
- PROPOSED PLANTING

- EXISTING TREE
- PROPOSED TREE
- PROPOSED FENCE
- PROPOSED LIGHT POLE
- PROPOSED TABLES AND CHAIRS
SEE DETAIL 4/L840
- PROPOSED BENCH
SEE DETAIL 2/L840
- TRASH RECEPTACLE
SEE DETAIL 3/L840
- BIKE RACKS
SEE DETAIL 5/L840
- PLAY EQUIPMENT USE ZONE

NOTES

- SEE L610, L611, L612 FOR PLAY EQUIPMENT AND SAFETY SURFACING LAYOUT.

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LAYOUT PLAN AREA E

Scale: 1"=10'
Date: 10/25/2024
Drawn: TS
Checked: TS
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L200

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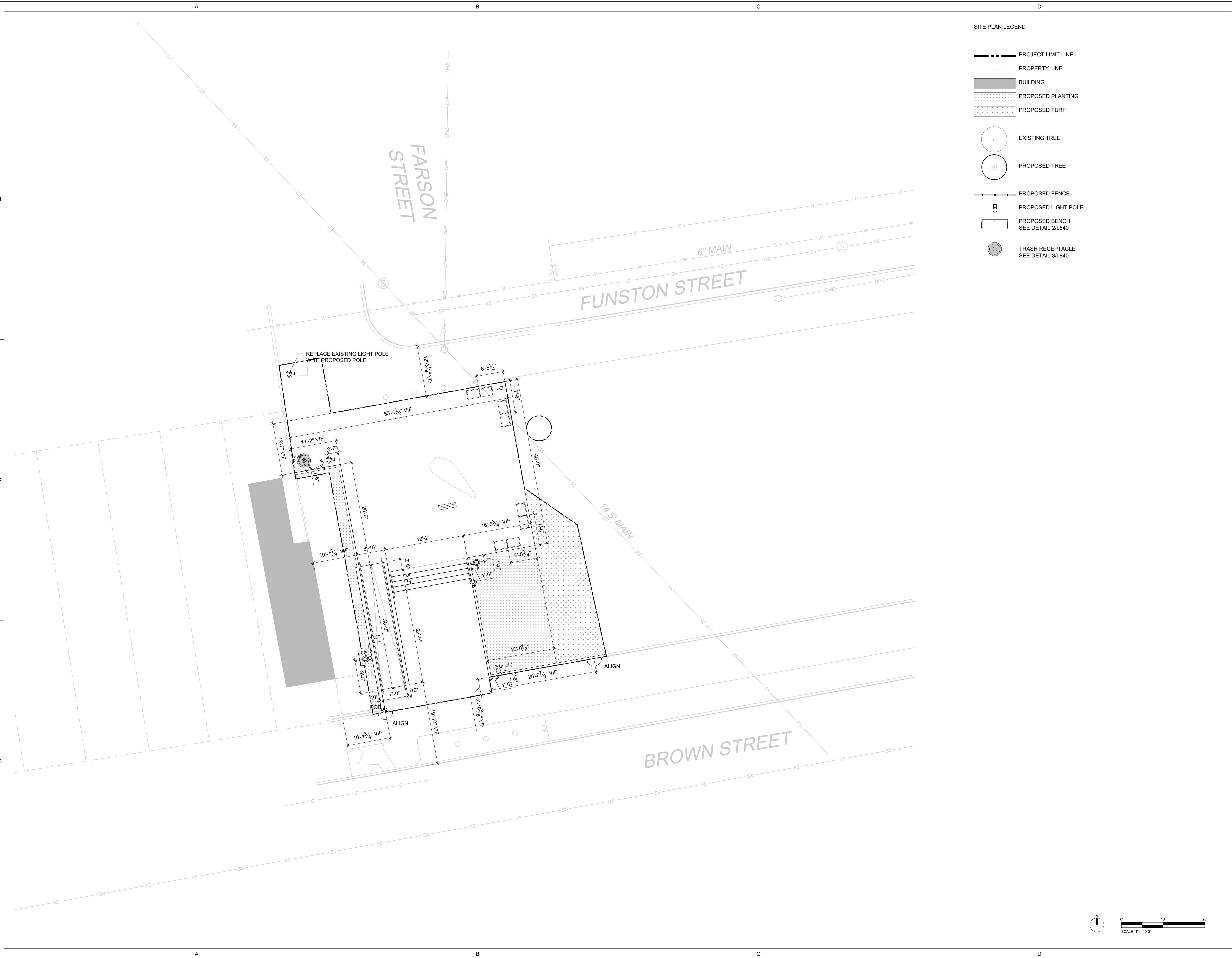
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LAYOUT PLAN
AREA G

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Drawn: TS
Checked: TS
Project No.: 2409

L201



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MATERIALS LEGEND

- PROJECT LIMIT LINE
- PROPERTY LINE
- BUILDING
- CIP CONCRETE PAVING
SEE 1/L830
- RUBBER PLAY SURFACING
SEE 1/L850 FOR DETAIL.
SEE L611 FOR COLORS
- CONCRETE FENCE FOOTING
SEE 1/L820
- 12" WIDE CIP CONCRETE CURB
SEE 2/L820
- CIP CONCRET SEATWALL
SEE 1/L840
- PROPOSED CHAIN-LINK FENCE
SEE 3/L820
- LIGHT POLE CONCRETE
FOOTING

MATERIALS PLAN NOTES

- FOR LIGHTING, SEE ELECTRICAL DWG FOR POWER
CULATERS
- FOR FURNISHINGS, SEE SITE FURNISHING PLAN.
- IMENCEMENT
- TO THE

WEST MILL CREEK PLAYGROUND AREAS E & G

5100 Parrish St.
Philadelphia, PA 19139

OLIN

LANDSCAPE ARCHITECTURE / URBAN DESIGN / PLANNING
ONE PENN CENTER
1617 JOHN F. KENNEDY BOULEVARD, SUITE 1900
PHILADELPHIA, PA 19103
TEL 215-440-0030 / FAX 215-440-0041
WWW.THEOLINSTUDIO.COM
OLIN PARTNERSHIP, LTD.

Playground Design:
Studio Ludo
4800 Springfield Ave
Philadelphia, PA 19143
(215) 454-6780

Civil Engineering:
Sci Tek
1880 John F Kennedy Blvd #600,
Philadelphia, PA 19103
(267) 314-5385

Structural:
Arora and Associates, P.C.
190 Brodhead Road, Suite 120,
Bethlehem, PA 18017
(484) 895-3131

MEP:
Mark Ulrick
30 N. 41ST SUITE 500
Philadelphia, PA 19104
(856) 320-8100

No.	Date	Description
1	07/31/2024	SCHEMATIC DESIGN 100%
2	10/25/2024	DESIGN DEVELOPMENT 100%
3	05/09/2025	CONSTRUCTION DOCUMENTS 100%

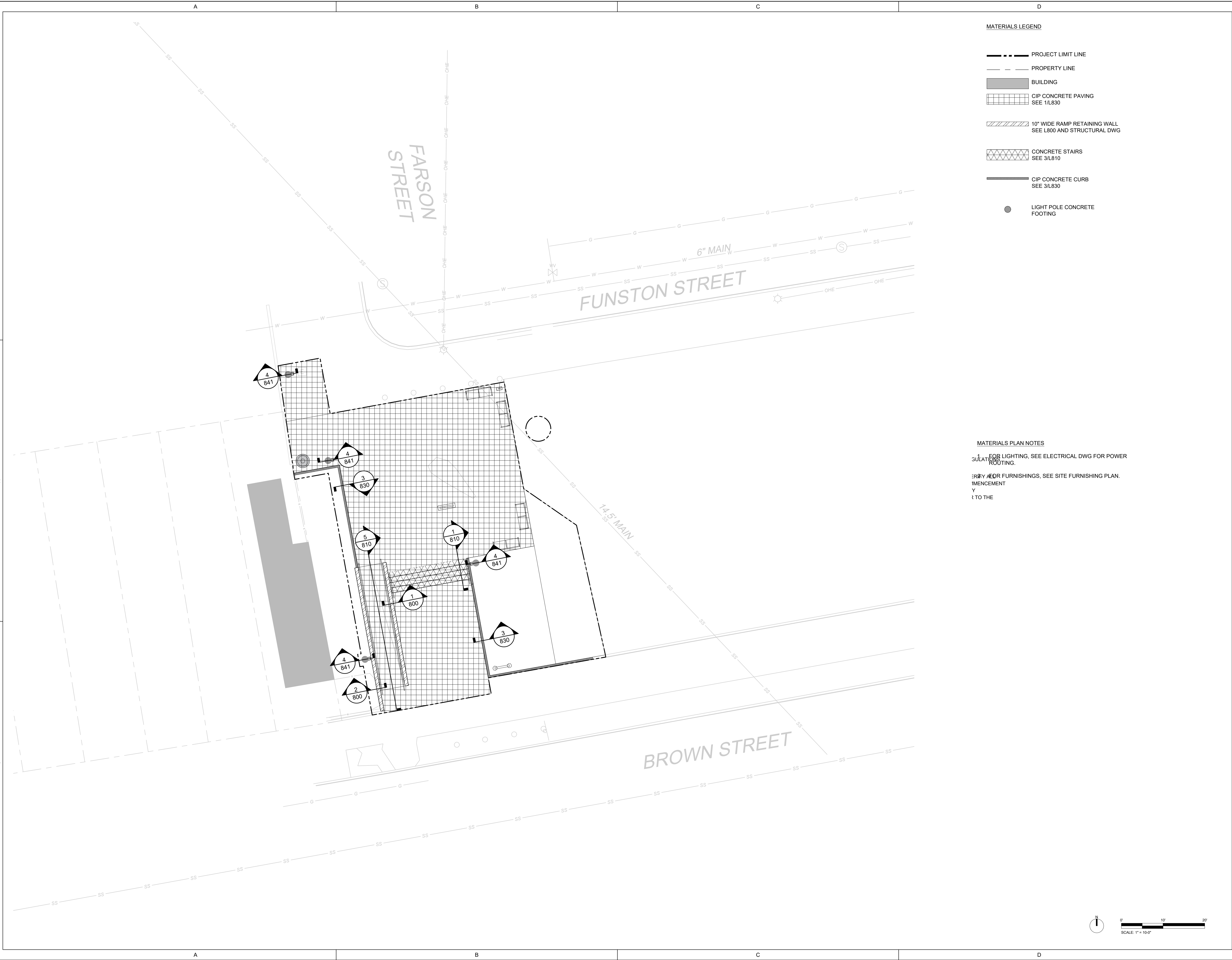


MATERIALS PLAN AREA E

Scale: 1"=10'
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

L300

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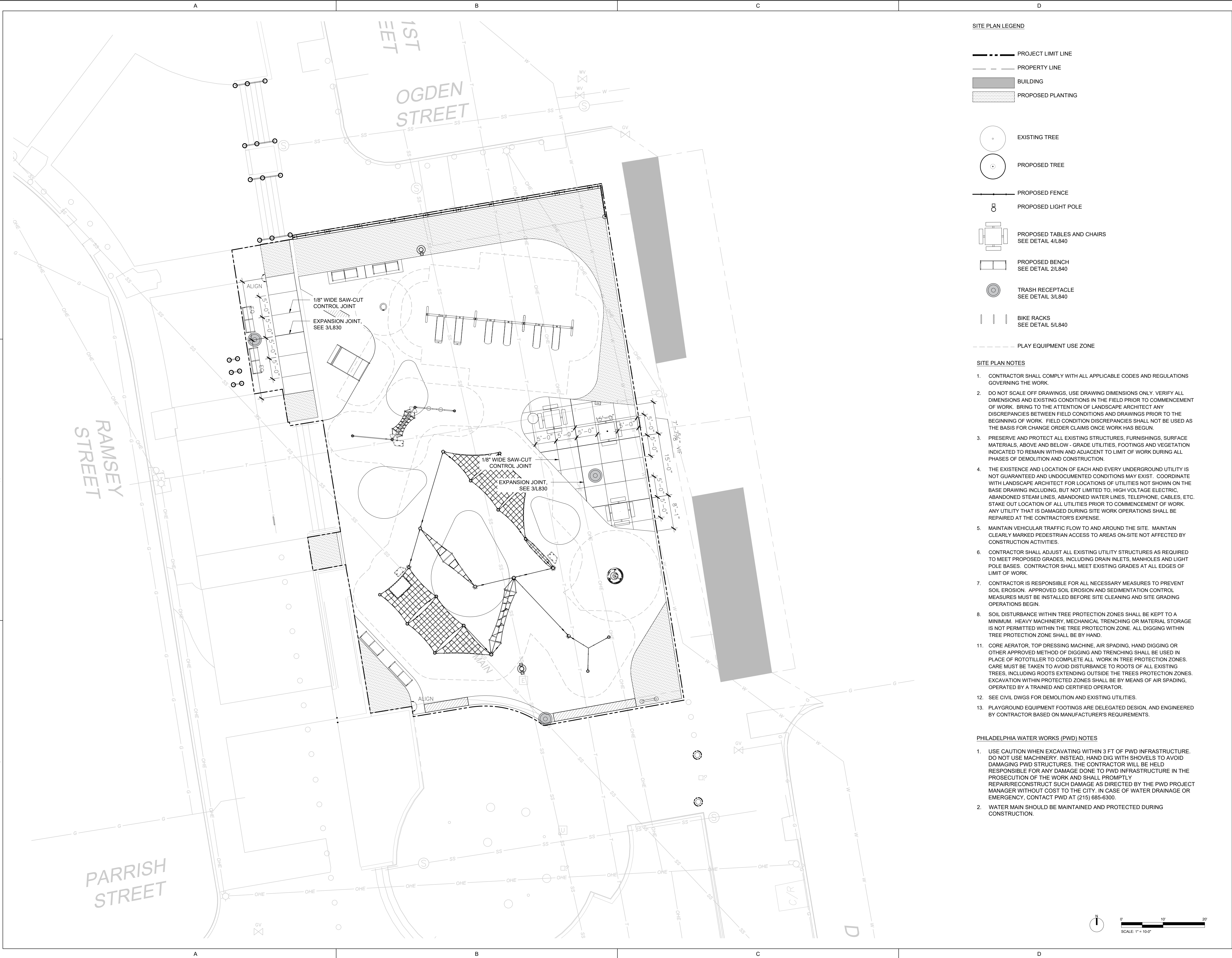
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3	05/09/2025	CONSTRUCTION DOCUMENTS 100%



MATERIALS PLAN AREA G

L301

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SITE PLAN LEGEND

- PROJECT LIMIT LINE
- PROPERTY LINE
- BUILDING
- PROPOSED PLANTING

EXISTING TREE

PROPOSED TREE

PROPOSED FENCE

PROPOSED LIGHT POLE

PROPOSED TABLES AND CHAIRS
SEE DETAIL 4/L840

PROPOSED BENCH
SEE DETAIL 2/L840

TRASH RECEPTACLE
SEE DETAIL 3/L840

BIKE RACKS
SEE DETAIL 5/L840

PLAY EQUIPMENT USE ZONE

SITE PLAN NOTES

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK.
- DO NOT SCALE OFF DRAWINGS. USE DRAWING DIMENSIONS ONLY. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. BRING TO THE ATTENTION OF LANDSCAPE ARCHITECT ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS PRIOR TO THE BEGINNING OF WORK. FIELD CONDITION DISCREPANCIES SHALL NOT BE USED AS THE BASIS FOR CHANGE ORDER CLAIMS ONCE WORK HAS BEGUN.
- PRESERVE AND PROTECT ALL EXISTING STRUCTURES, FURNISHINGS, SURFACE MATERIALS, ABOVE AND BELOW - GRADE UTILITIES, FOOTINGS AND VEGETATION INDICATED TO REMAIN WITHIN AND ADJACENT TO LIMIT OF WORK DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.
- THE EXISTENCE AND LOCATION OF EACH AND EVERY UNDERGROUND UTILITY IS NOT GUARANTEED AND UNDOCUMENTED CONDITIONS MAY EXIST. COORDINATE WITH LANDSCAPE ARCHITECT FOR LOCATIONS OF UTILITIES NOT SHOWN ON THE BASE DRAWING INCLUDING, BUT NOT LIMITED TO, HIGH VOLTAGE ELECTRIC, ABANDONED STEAM LINES, ABANDONED WATER LINES, TELEPHONE, CABLES, ETC. STAKE OUT LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK. ANY UTILITY THAT IS DAMAGED DURING SITE WORK OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- MAINTAIN VEHICULAR TRAFFIC FLOW TO AND AROUND THE SITE. MAINTAIN CLEARLY MARKED PEDESTRIAN ACCESS TO AREAS ON-SITE NOT AFFECTED BY CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY STRUCTURES AS REQUIRED TO MEET PROPOSED GRADES, INCLUDING DRAIN INLETS, MANHOLES AND LIGHT POLE BASES. CONTRACTOR SHALL MEET EXISTING GRADES AT ALL EDGES OF LIMIT OF WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY MEASURES TO PREVENT SOIL EROSION. APPROVED SOIL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE INSTALLED BEFORE SITE CLEANING AND SITE GRADING OPERATIONS BEGIN.
- SOIL DISTURBANCE WITHIN TREE PROTECTION ZONES SHALL BE KEPT TO A MINIMUM. HEAVY MACHINERY, MECHANICAL TRENCHING OR MATERIAL STORAGE IS NOT PERMITTED WITHIN THE TREE PROTECTION ZONE. ALL DIGGING WITHIN TREE PROTECTION ZONE SHALL BE BY HAND.
- CORE AERATOR, TOP DRESSING MACHINE, AIR SPADING, HAND DIGGING OR OTHER APPROVED METHOD OF DIGGING AND TRENCHING SHALL BE USED IN PLACE OF ROTOTILLER TO COMPLETE ALL WORK IN TREE PROTECTION ZONES. CARE MUST BE TAKEN TO AVOID DISTURBANCE TO ROOTS OF ALL EXISTING TREES, INCLUDING ROOTS EXTENDING OUTSIDE THE TREES PROTECTION ZONES. EXCAVATION WITHIN PROTECTED ZONES SHALL BE BY MEANS OF AIR SPADING, OPERATED BY A TRAINED AND CERTIFIED OPERATOR.
- SEE CIVIL DWGS FOR DEMOLITION AND EXISTING UTILITIES.
- PLAYGROUND EQUIPMENT FOOTINGS ARE DELEGATED DESIGN, AND ENGINEERED BY CONTRACTOR BASED ON MANUFACTURER'S REQUIREMENTS.

PHILADELPHIA WATER WORKS (PWD) NOTES

- USE CAUTION WHEN EXCAVATING WITHIN 3 FT OF PWD INFRASTRUCTURE. DO NOT USE MACHINERY. INSTEAD, HAND DIG WITH SHOVELS TO AVOID DAMAGING PWD STRUCTURES. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE DONE TO PWD INFRASTRUCTURE IN THE PROSECUTION OF THE WORK AND SHALL PROMPTLY REPAIR/RECONSTRUCT SUCH DAMAGE AS DIRECTED BY THE PWD PROJECT MANAGER WITHOUT COST TO THE CITY. IN CASE OF WATER DRAINAGE OR EMERGENCY, CONTACT PWD AT (215) 685-6300.
- WATER MAIN SHOULD BE MAINTAINED AND PROTECTED DURING CONSTRUCTION.

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1	07/31/2024	SCHEMATIC DESIGN 100%
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3	05/09/2025	CONSTRUCTION DOCUMENTS 100%



PAVING LAYOUT PLAN AREA E

Scale: 1"=10'
Date: 10/25/2024
Drawn: TS
Checked: TS
Project No.: 2409

L350

L351



WEST MILL CREEK PLAYGROUND AREAS E & G

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GRADING PLAN NOTES

- CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT. CONTRACTOR SHALL STAKE ALL ELEVATIONS TO BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE CONSTRUCTION.
- ALL LINES AND GRADE WORK NOT PRESENTLY ESTABLISHED AT THE SITE SHALL BE LAID OUT BY A REGISTERED LAND SURVEYOR OR PROFESSIONAL CIVIL ENGINEER EMPLOYED BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR SHALL ESTABLISH PERMANENT BENCHMARKS AND BOUNDS AND REPLACE ANY WHICH ARE DESTROYED OR DISTURBED.
- THE WORDS 'FINISHED GRADE' (F.G.) SHALL MEAN THE REQUIRED FINAL GRADE ELEVATIONS INDICATED ON THE DRAWINGS.
- SPOT ELEVATIONS SHALL GOVERN OVER PROPOSED CONTOURS.
- CONTRACTOR SHALL ENSURE CONSISTENT SLOPE BETWEEN SPOT ELEVATIONS.
- AT RIDGE LINES, HIGH POINTS AND LOW POINTS CONTRACTOR SHALL TRANSITION GRADE TO AVOID A POINT OR SHARP EDGE.
- SEE CIVIL DRAWINGS FOR ALL AREA DRAIN LOCATIONS AND INVERT LOCATIONS.
- ALL WORK PERFORMED IN A PUBLIC RIGHT-OF-WAY SHALL MEET THE REQUIREMENT OF THE LOCAL MUNICIPALITY.
- CONTRACTOR SHALL NOT PERFORM WORK OUTSIDE THE DESIGNATED SITE BOUNDARY. IF FIELD CONDITIONS WARRANT OFF-SITE GRADING PERMITION SHALL BE OBTAINED BY CONTRACTOR FROM THE AFFECTED PROPERTY OWNERS.
- ALL SIDEWALKS, STOOPS, TERRACES AND OTHER PAVED AREAS SHALL SLOPE AWAY FROM BUILDING(S) AT 2.0% MAXIMUM.
- FOR SLOPE CONSTRUCTION 3:1 AND STEEPER 1:1 CONTRACTOR SHALL COORDINATE WITH A GEOTECHNICAL ENGINEER ON THE SUITABILITY OF SOILS PLANNED FOR THESE SLOPES AND FOLLOW RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL ENGINEER FOR SLOPE CONSTRUCTION. TOP SOIL PLACEMENT ON SLOPES SHALL BE INSTALLED IN A BENCHED PATTERN.

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3	05/09/2025	CONSTRUCTION DOCUMENTS 100%



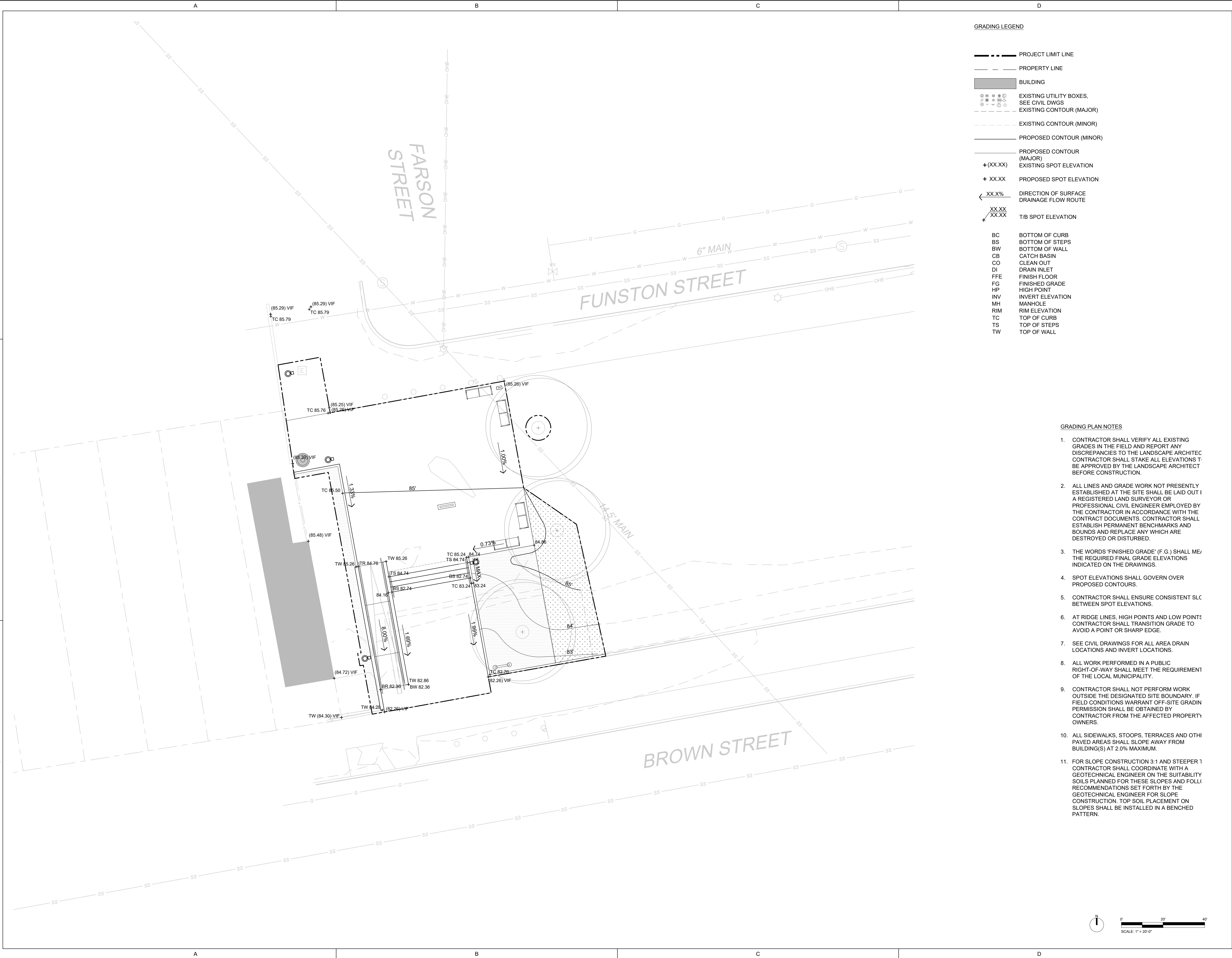
GRADING PLAN
AREA E

Scale: 1"=10'
Date: 10/25/2024
Drawn: TS
Checked: TS
Project No.: 2409

L400

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GRADING LEGEND

- PROJECT LIMIT LINE
- - - PROPERTY LINE
- BUILDING
- EXISTING UTILITY BOXES, SEE CIVIL DWGS
- EXISTING CONTOUR (MAJOR)
- EXISTING CONTOUR (MINOR)
- PROPOSED CONTOUR (MINOR)
- PROPOSED CONTOUR (MAJOR)
- + (XX.XX) EXISTING SPOT ELEVATION
- + XX.XX PROPOSED SPOT ELEVATION
- < XX.X% DIRECTION OF SURFACE DRAINAGE FLOW ROUTE
- XX.XX / XX.XX T/B SPOT ELEVATION
- BC BOTTOM OF CURB
- BS BOTTOM OF STEPS
- BW BOTTOM OF WALL
- CB CATCH BASIN
- CO CLEAN OUT
- DI DRAIN INLET
- FFE FINISH FLOOR
- FG FINISHED GRADE
- HP HIGH POINT
- INV INVERT ELEVATION
- MH MANHOLE
- RIM RIM ELEVATION
- TC TOP OF CURB
- TS TOP OF STEPS
- TW TOP OF WALL

GRADING PLAN NOTES

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WEST MILL CREEK PLAYGROUND AREAS E & G

5100 Parrish St.
Philadelphia, PA 19139

OLIN

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MEP:
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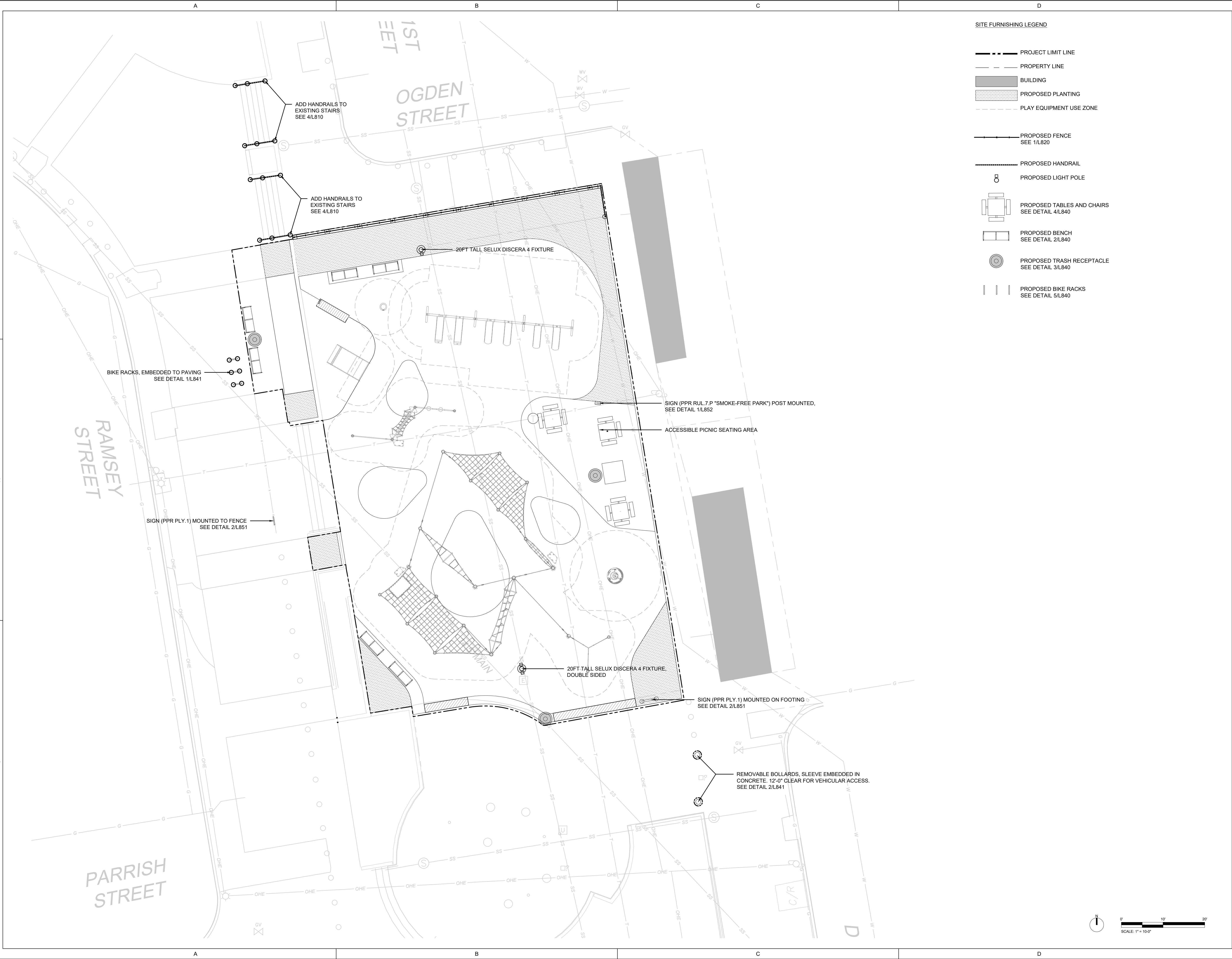


GRADING PLAN
AREA G

Scale: 1"=10'
Date: 10/25/2024
Drawn: TS
Checked: TS
Project No.: 2409

L401

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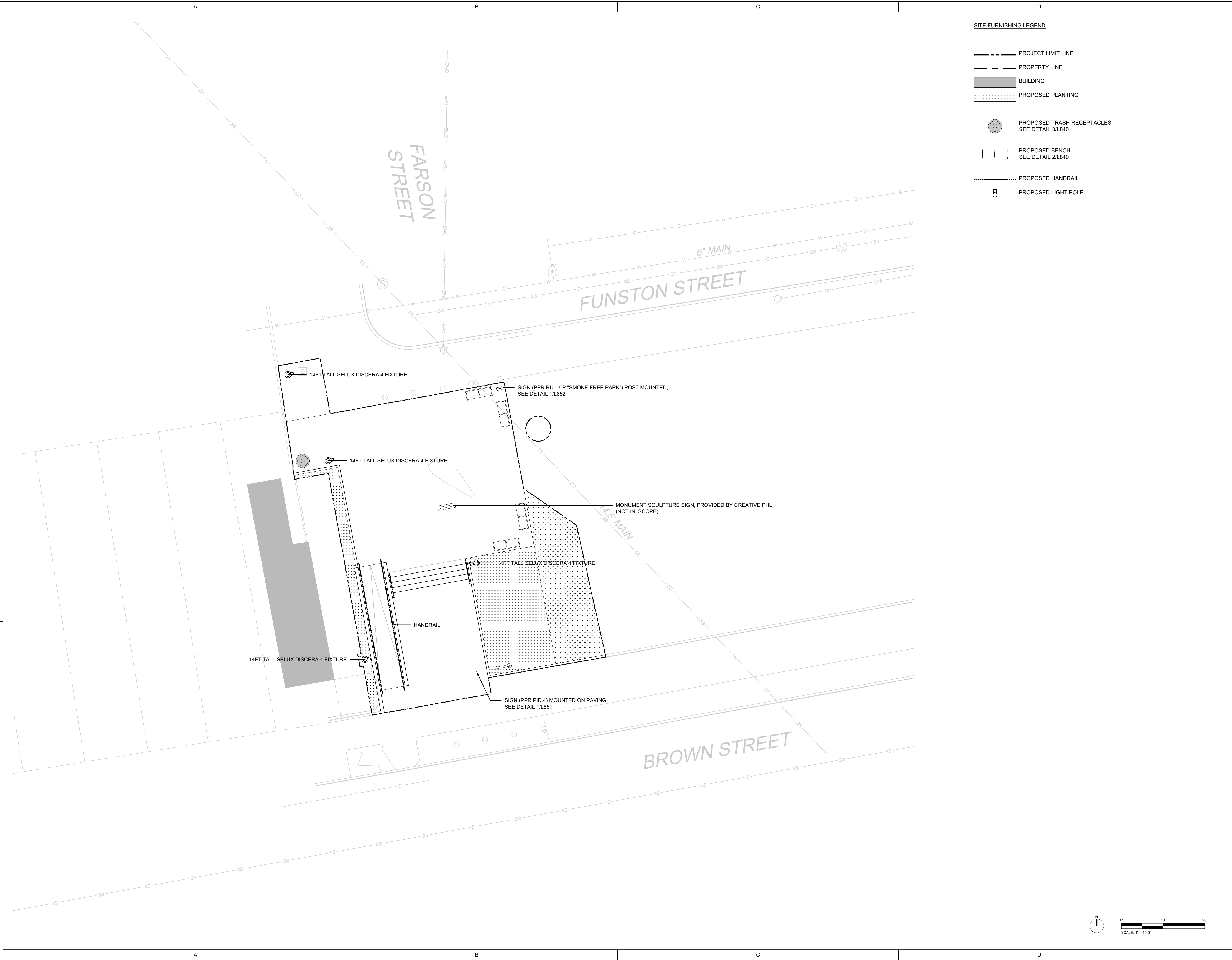


SITE FURNISHINGS PLAN AREA E

Scale: 1"=10'
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

L600

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3	05/09/2025	CONSTRUCTION DOCUMENTS 100%

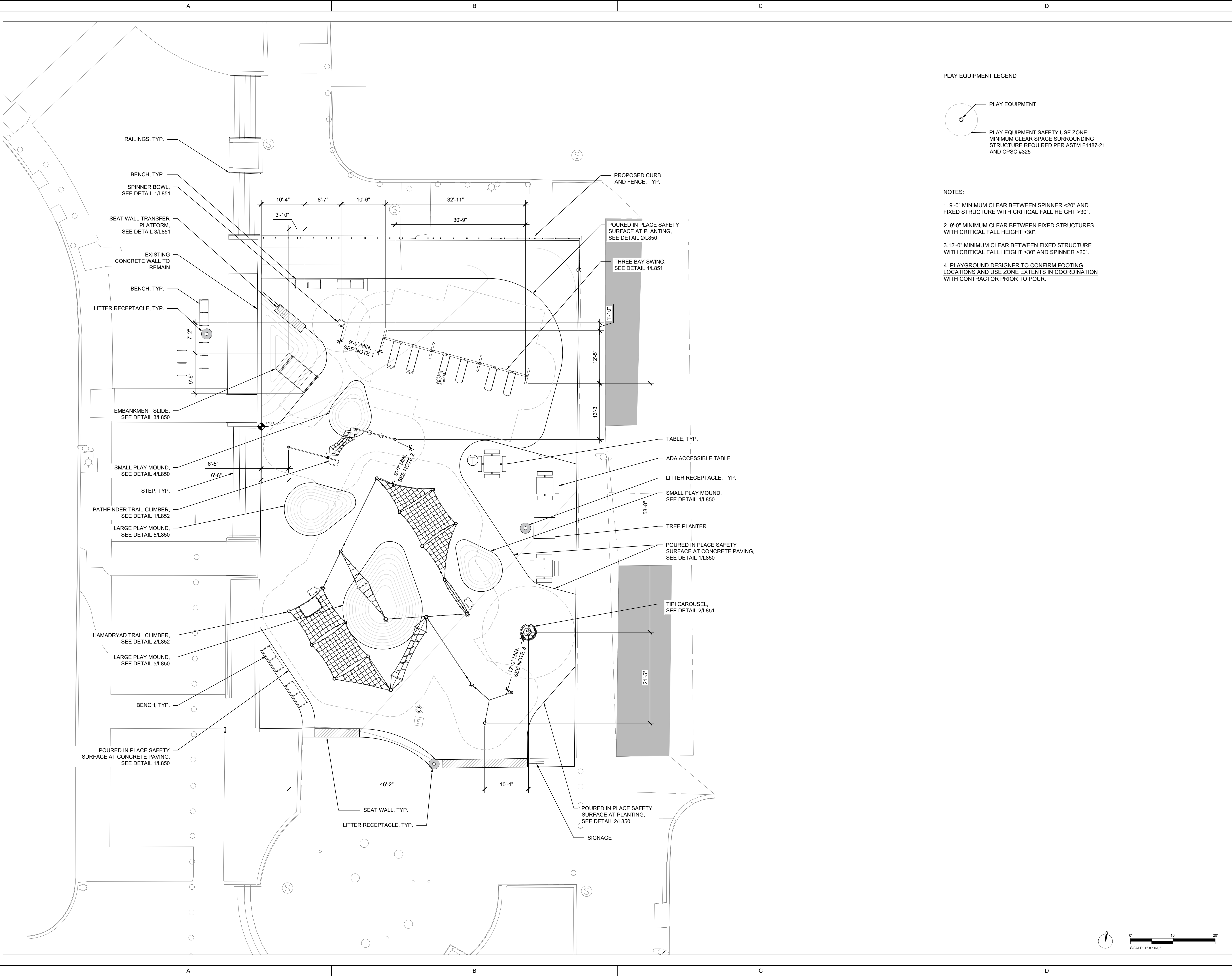


SITE FURNISHINGS PLAN AREA G

Scale: 1"=10'
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

L601

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PLAY EQUIPMENT LEGEND

- PLAY EQUIPMENT
- PLAY EQUIPMENT SAFETY USE ZONE:
MINIMUM CLEAR SPACE SURROUNDING
STRUCTURE REQUIRED PER ASTM F1487-21
AND CPSC #325

NOTES:

1. 9'-0" MINIMUM CLEAR BETWEEN SPINNER <20" AND FIXED STRUCTURE WITH CRITICAL FALL HEIGHT >30".
2. 9'-0" MINIMUM CLEAR BETWEEN FIXED STRUCTURES WITH CRITICAL FALL HEIGHT >30".
3. 12'-0" MINIMUM CLEAR BETWEEN FIXED STRUCTURE WITH CRITICAL FALL HEIGHT >30" AND SPINNER >20".
4. PLAYGROUND DESIGNER TO CONFIRM FOOTING LOCATIONS AND USE ZONE EXTENTS IN COORDINATION WITH CONTRACTOR PRIOR TO POUR.

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No.	Date	Description
1	7/31/2024	100% Schematic Design
2	10/25/2024	100% Design Development
3	6/06/2025	100% Construction Documents

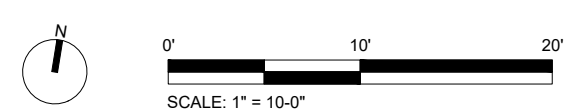


PLAY EQUIPMENT PLAN

Scale: 1" = 10'-0"
Date: 6/06/2025
Drawn: TD
Checked: MT
Project No.: 2409

L610

L611



L612

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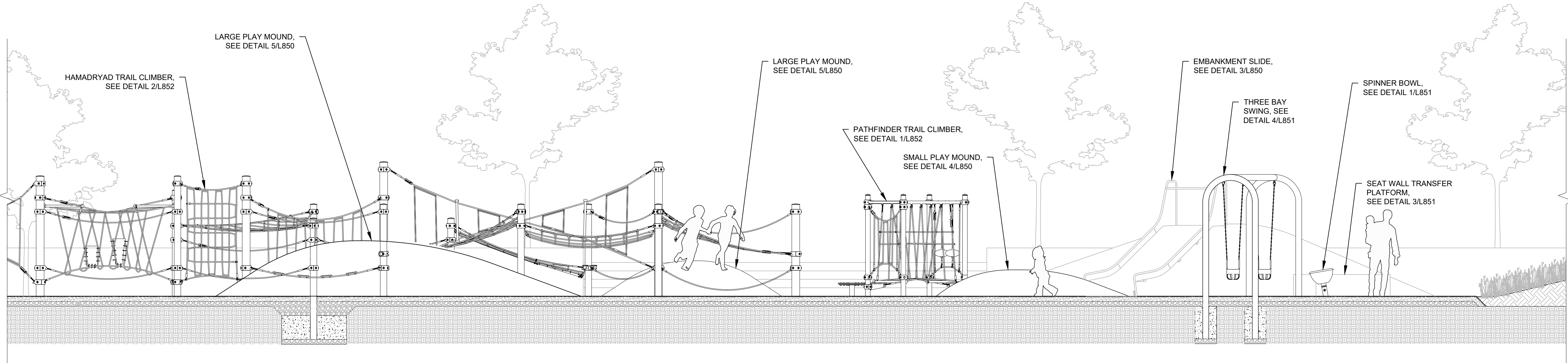
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3	5/09/2025	100% Construction Documents



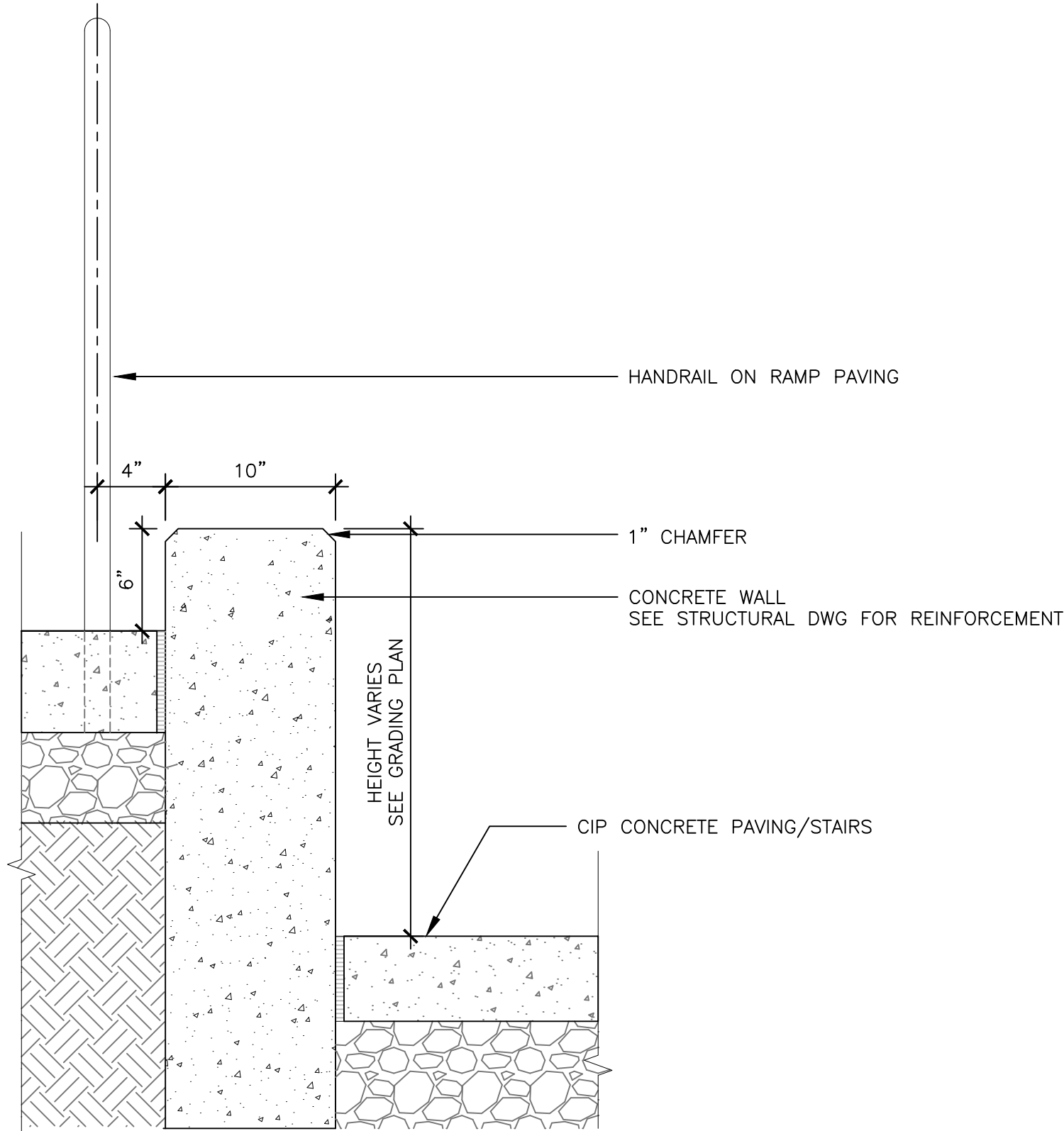
SITE SECTION

Scale: VARIES
Date: 2-21-2025
Drawn: TD
Checked: MT
Project No.: 2409

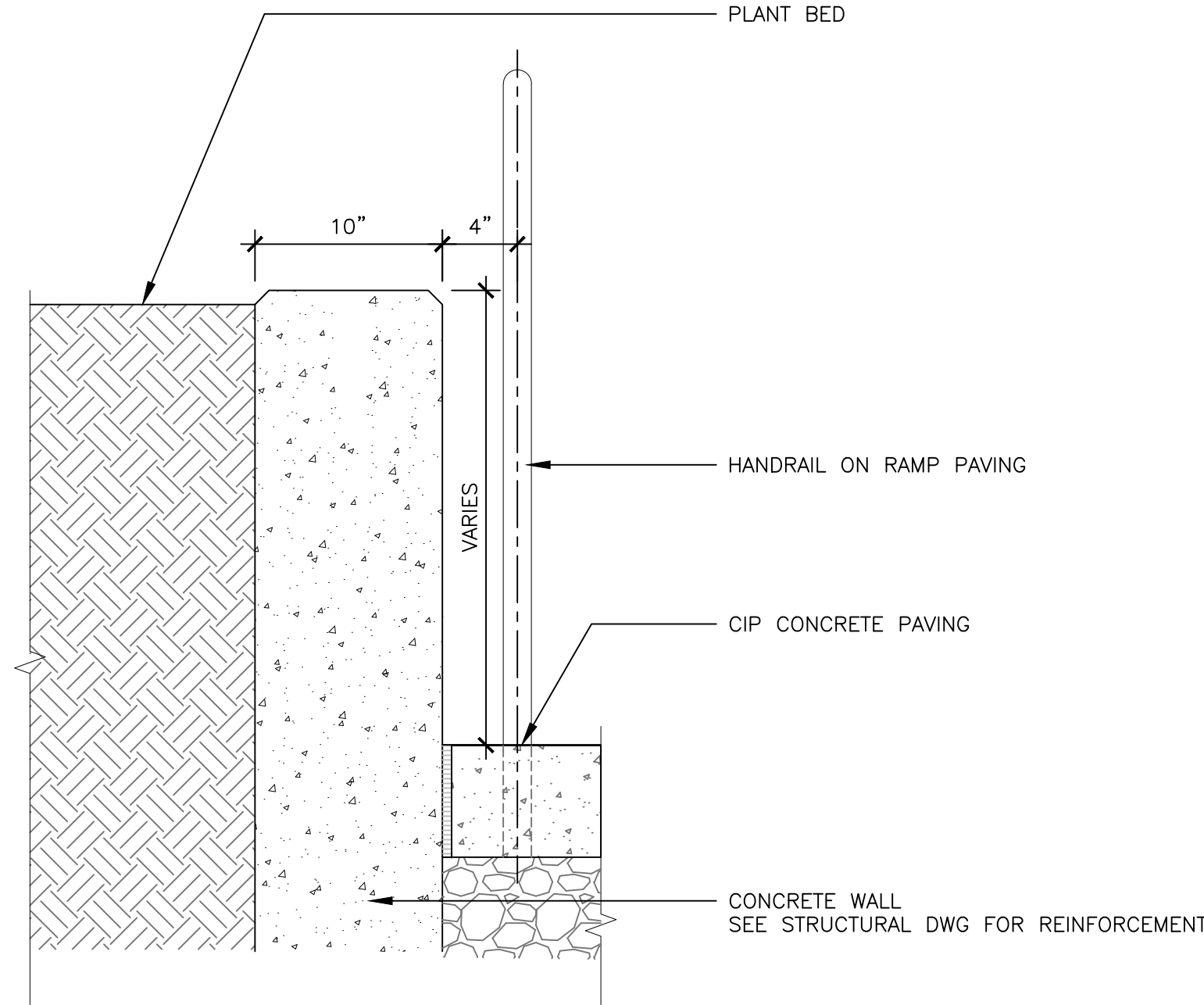
L613



Y:\Projects 2024\2409--West Mill Creek E & G Site Improvements\CAD\3CD\OLIN\Plotsheets\L_800--Details -- Site Walls.dwg; Sato, Takashi 6/10/2025 8:58:48 PM



1 | RAMP WALL
1-1/2" = 1"



2 | RAMP WALL
1-1/2" = 1"

WEST MILL CREEK PLAYGROUND AREAS E & G

5100 Parrish St.
Philadelphia, PA 19139

OLIN

LANDSCAPE ARCHITECTURE / URBAN DESIGN / PLANNING
ONE PENN CENTER
1617 JOHN F. KENNEDY BOULEVARD, SUITE 1900
PHILADELPHIA, PA 19103
TEL 215-440-0030 / FAX 215-440-0041
WWW.THEOLINSTUDIO.COM
OLIN PARTNERSHIP, LTD.

Playground Design:

Studio Ludo
4800 Springfield Ave
Philadelphia, PA 19143
(215) 454-6780

Civil Engineering:

Sci Tek
1880 John F Kennedy Blvd #600,
Philadelphia, PA 19103
(267) 314-5385

Structural:

Arora and Associates, P.C.
190 Brodhead Road, Suite 120,
Bethlehem, PA 18017
(484) 895-3131

MEP:

Mark Ulrick
30 N. 41ST SUITE 500
Philadelphia, PA 19104
(856) 320-8100

No.	Date	Description
1	07/31/2024	SCHEMATIC DESIGN 100%
2	10/25/2024	DESIGN DEVELOPMENT 100%
3	05/09/2025	CONSTRUCTION DOCUMENTS 100%

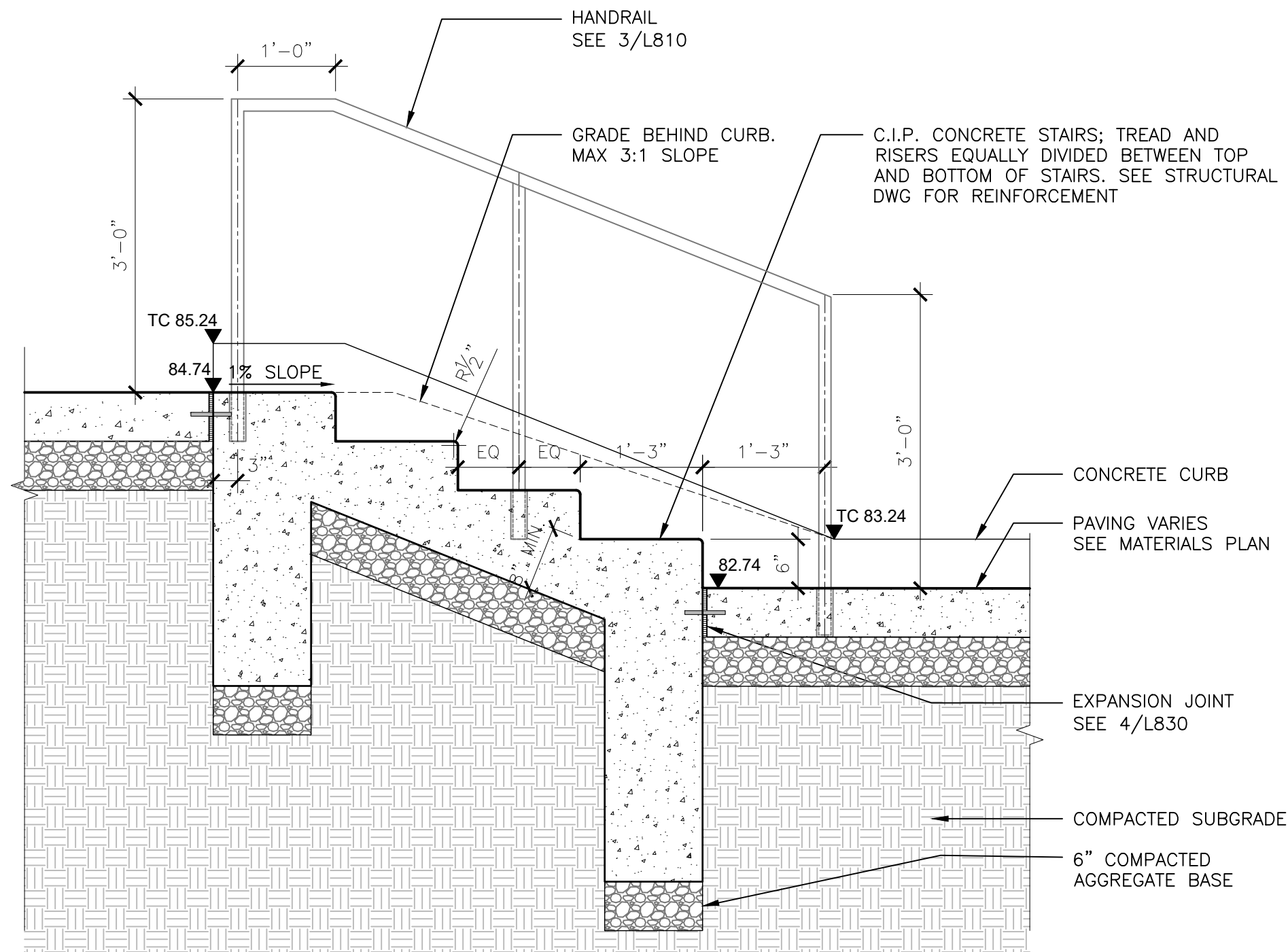


DETAILS SITE WALLS

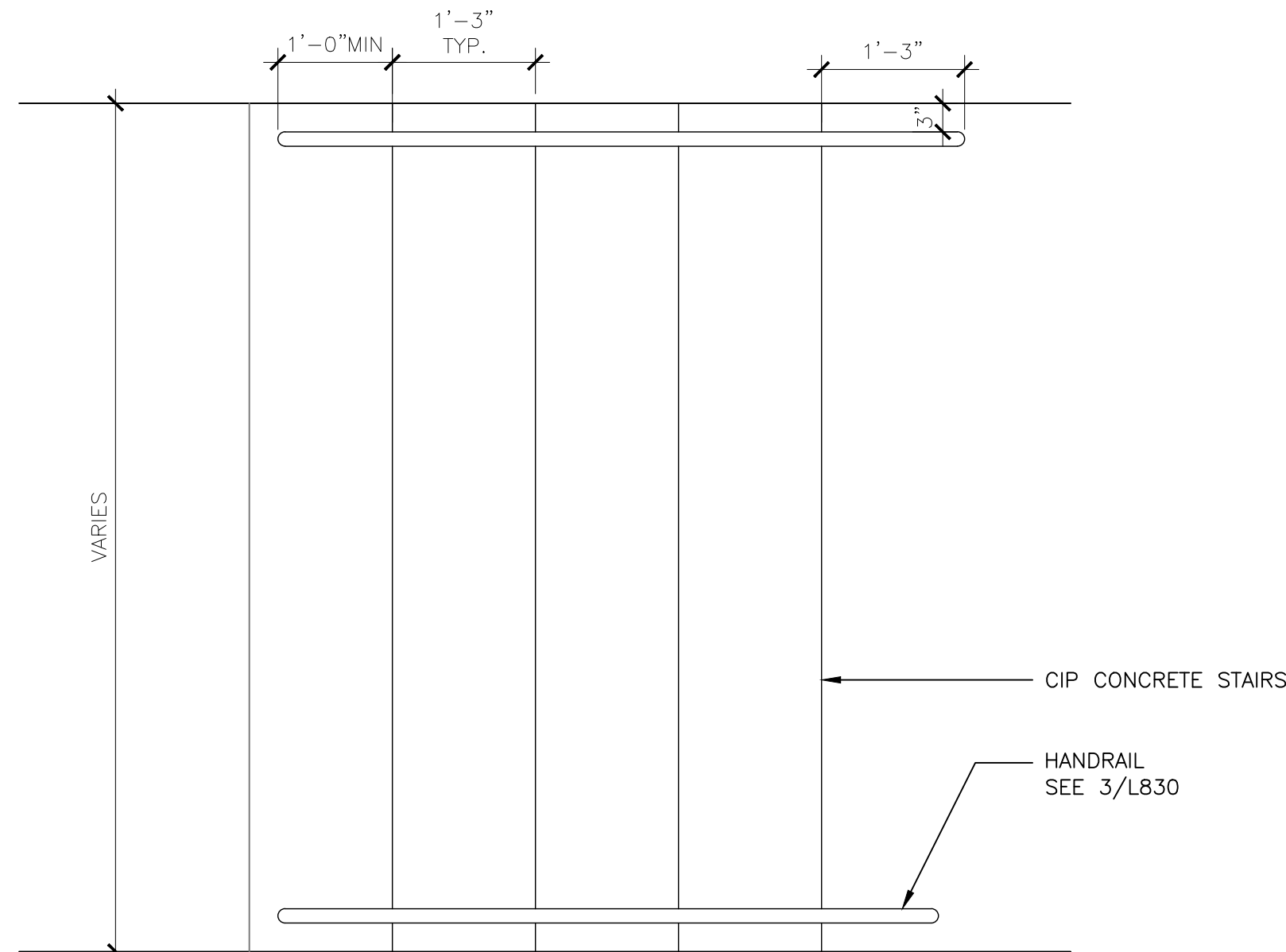
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Checked: TS
Project No.: 2409

L800

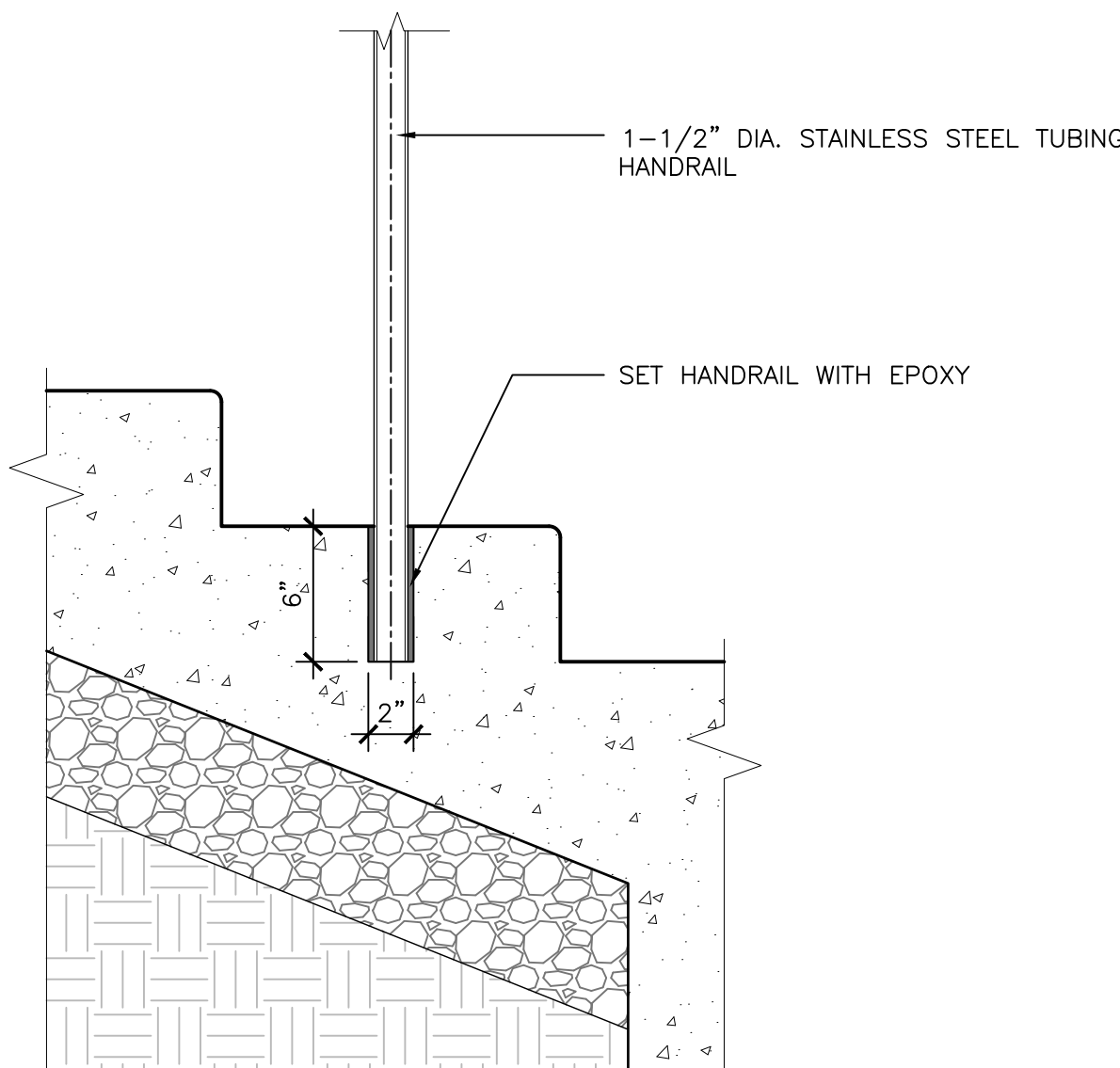
Y:\Projects 2024\2409--West Mill Creek E & G Site Improvements\CAD\3D\OLIN\Drawings - Site Stairs Ramp and Handrails.dwg: Sato, Takashi 6/10/2025 9:00:34 PM



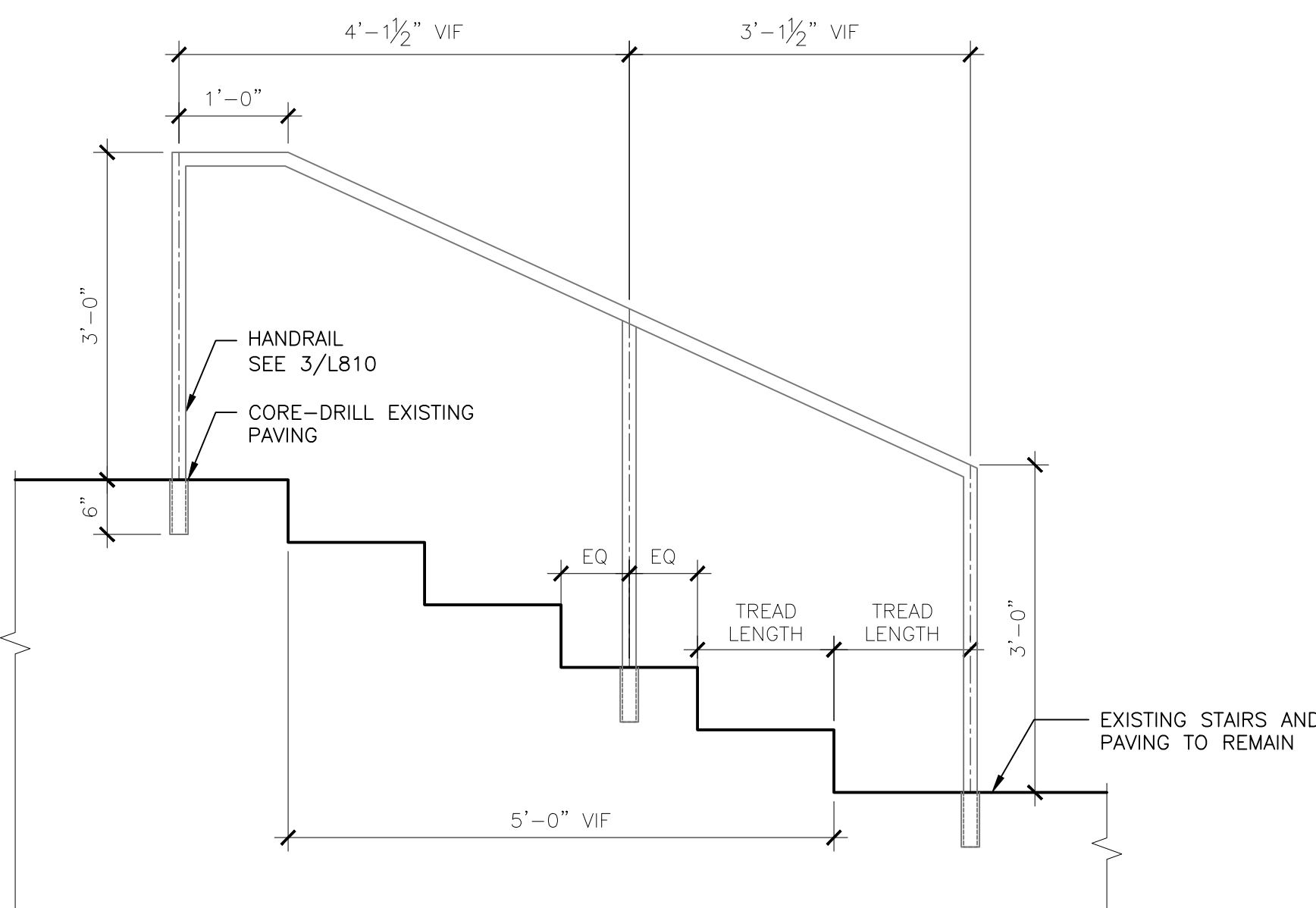
1 | STAIRS
3/4" = 1'-0"



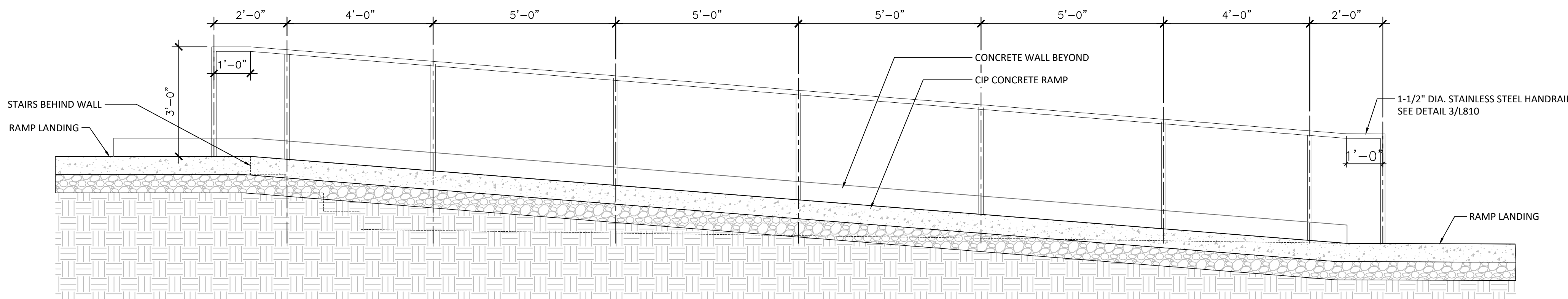
2 | STAIRS: PLAN
3/4" = 1'-0"



3 | HANDRAIL, TYP
1" = 1'-0"



4 | HANDRAIL ON EXISTING STAIRS
1" = 1'-0"



5 | RAMP
3/8" = 1'-0"

WEST MILL CREEK PLAYGROUND AREAS E & G

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MEP:
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(856) 320-8100

No.	Date	Description
1	07/31/2024	SCHEMATIC DESIGN 100%
2	10/25/2024	DESIGN DEVELOPMENT 100%
3	05/09/2025	CONSTRUCTION DOCUMENTS 100%



DETAILS
SITE STAIRS RAMP AND HANDRAILS

Scale: NA
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

L810

WEST MILL
CREEK
PLAYGROUND
AREAS E & G

5100 Parrish St.
Philadelphia, PA 19139

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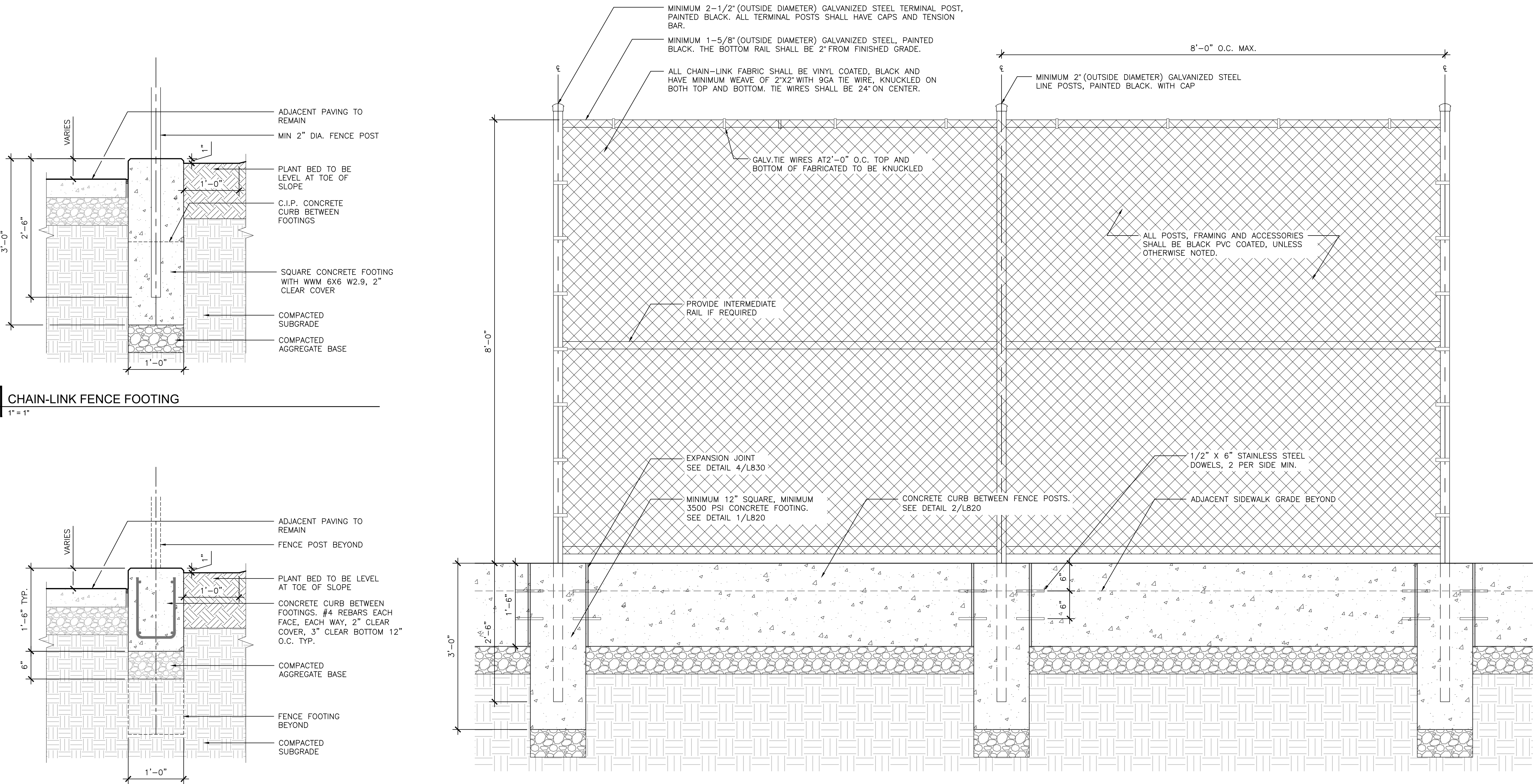
No.	Date	Description
1	07/31/2024	SCHEMATIC DESIGN 100%
2	10/25/2024	DESIGN DEVELOPMENT 100%
3	05/09/2025	CONSTRUCTION DOCUMENTS 100%



DETAILS
FENCES

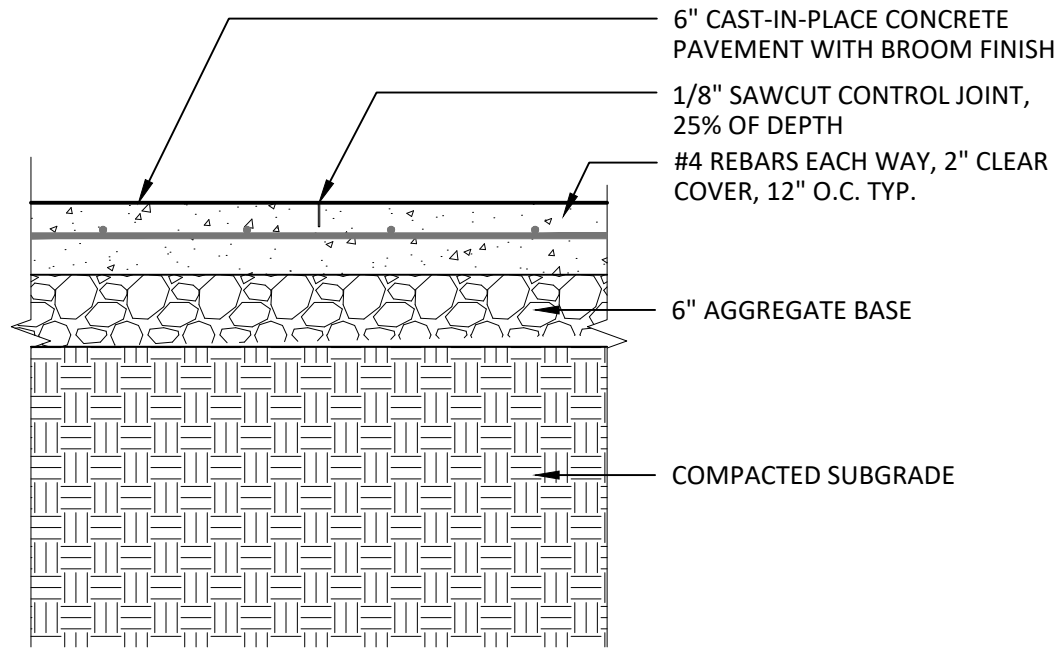
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L820

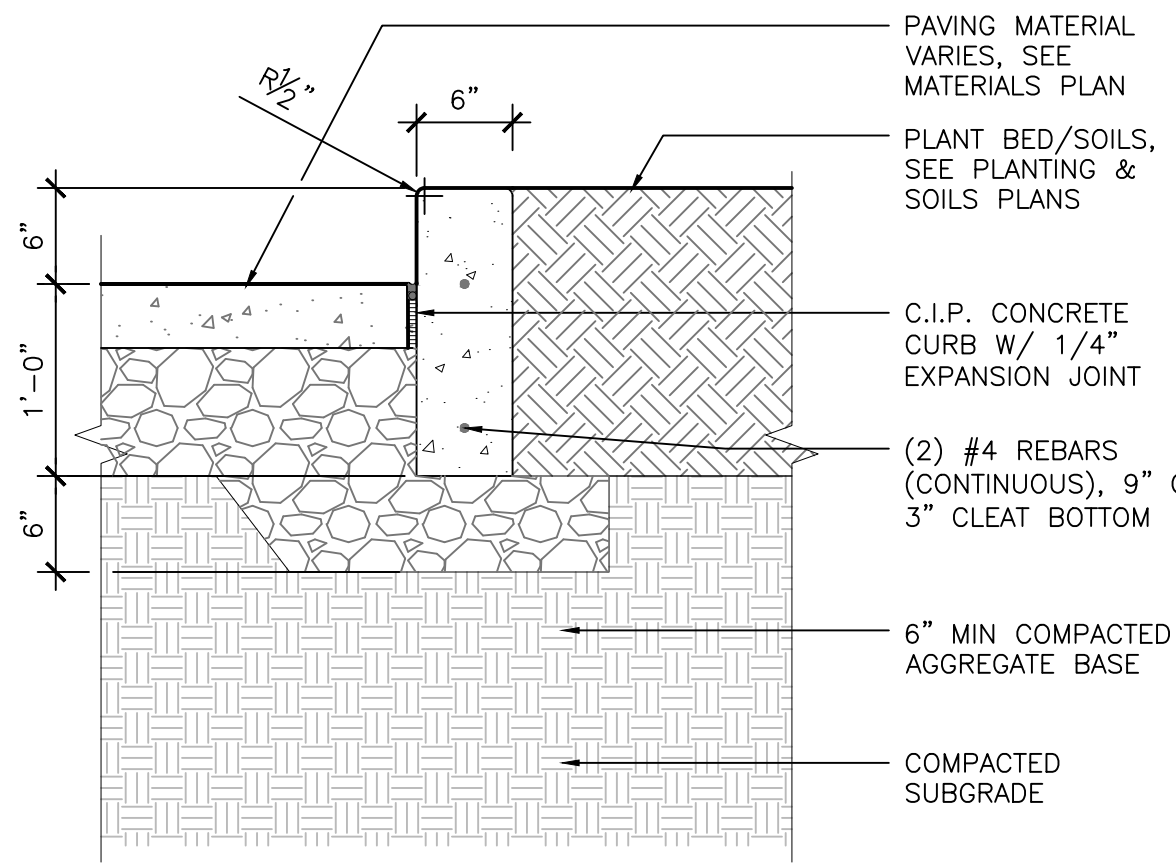


Y:\Projects 2024\2409-West Mill Creek E & G Site Improvements\CAD\3CD\OLIN\Plotsheets\L_820-Details - Fences.dwg, Sato, Takashi, 6/10/2025 8:59:17 PM

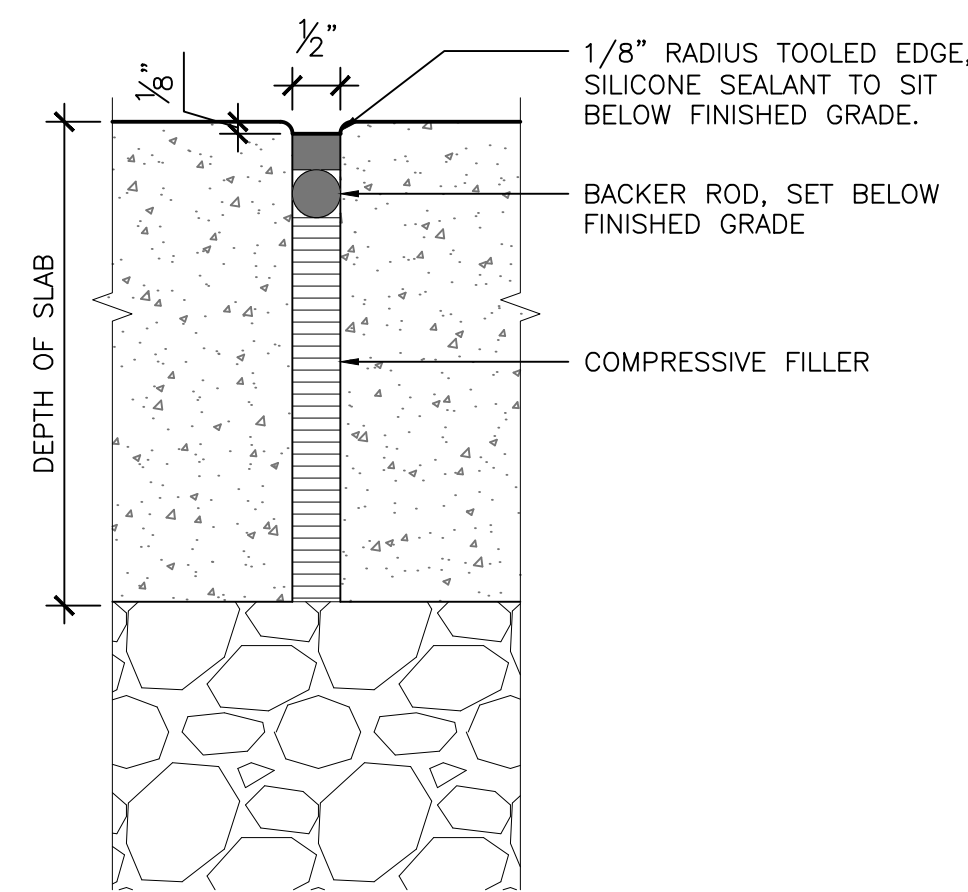
Y:\Projects 2024\2409--West Mill Creek E & G Site Improvements\CAD\3CD\OLIN\Drawings\Drawings - Paving.dwg; Sato, Takashi 6/10/2025 9:01:10 PM



1 | C.I.P. CONCRETE PAVING
3/4" = 1"



3 | RAISED CONCRETE CURB
1" = 1'-0"



4 | EXPANSION JOINT
6" = 1'-0"

WEST MILL CREEK PLAYGROUND AREAS E & G

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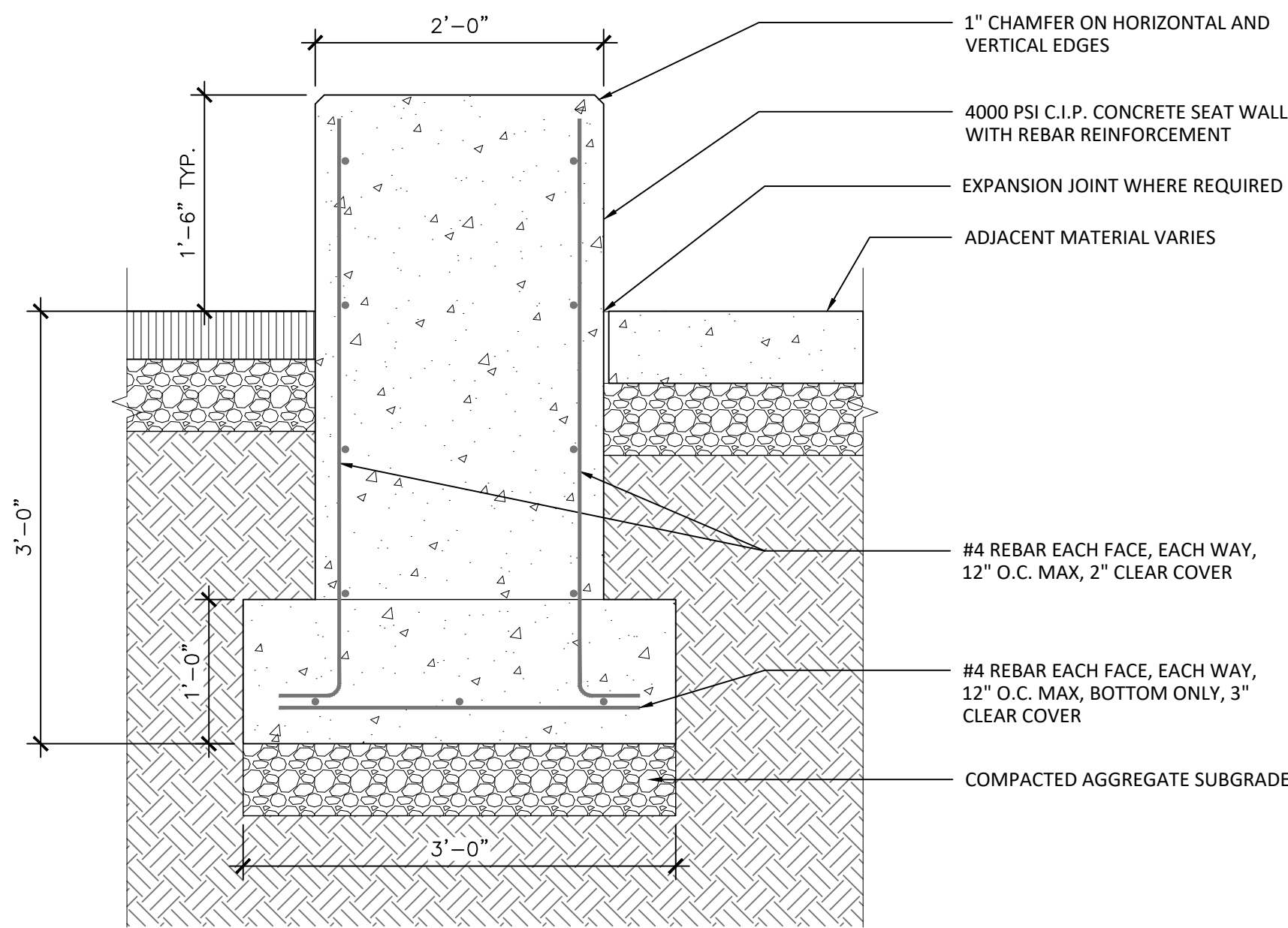


DETAILS PAVING

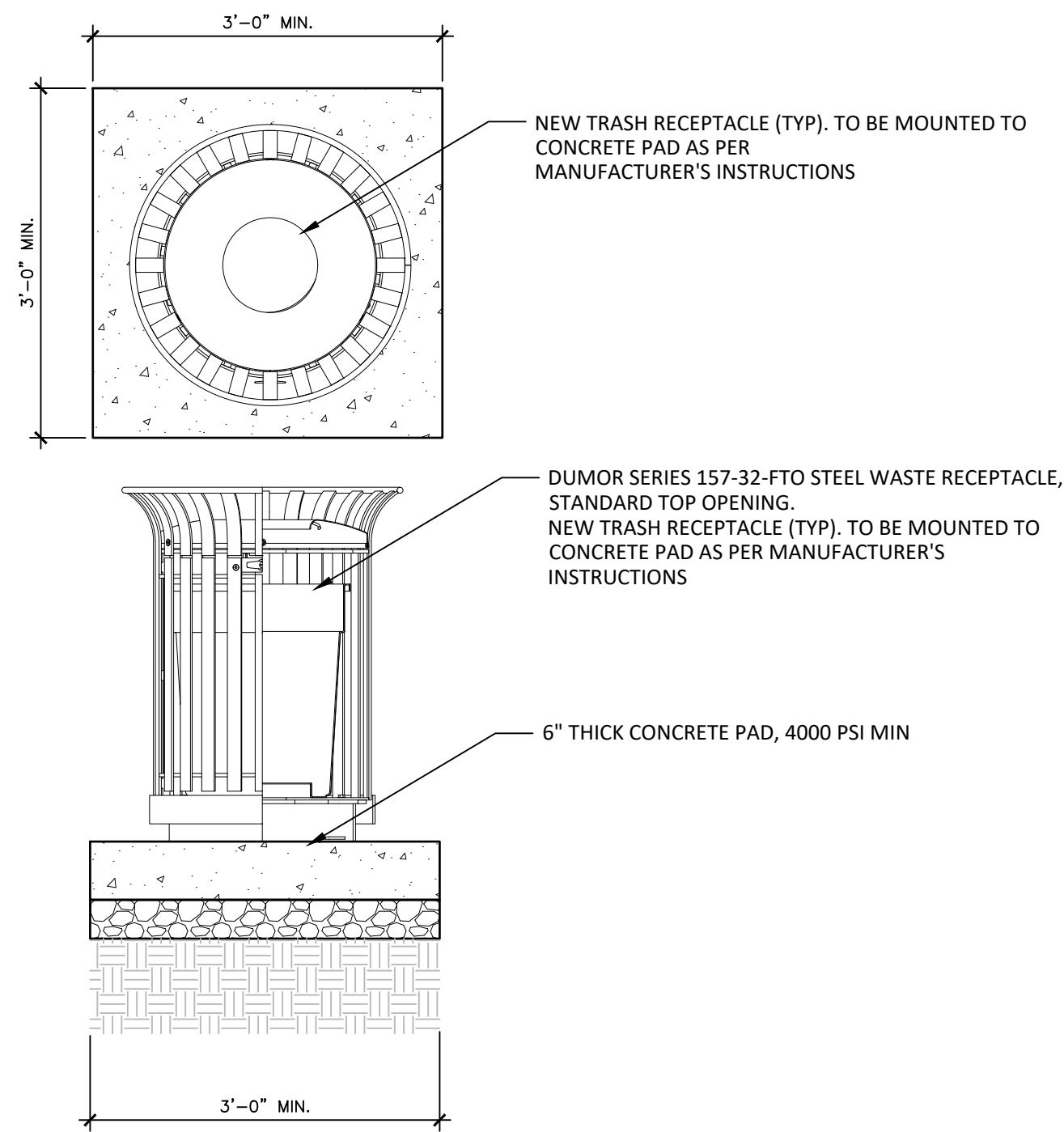
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Project No.: 2409

L830

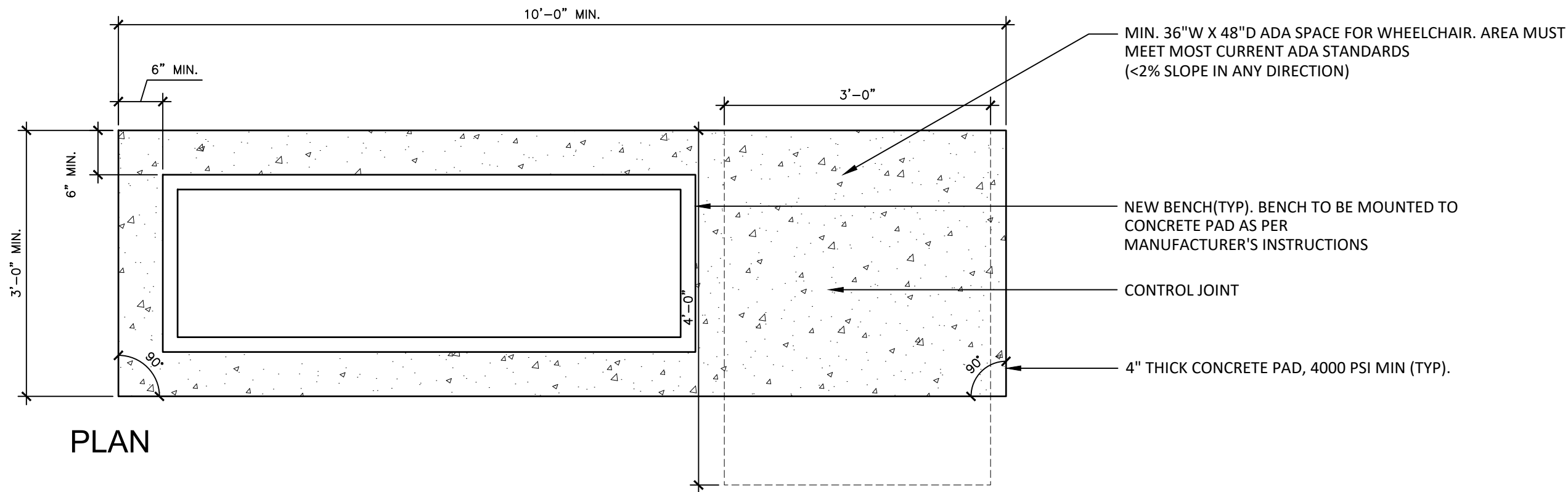
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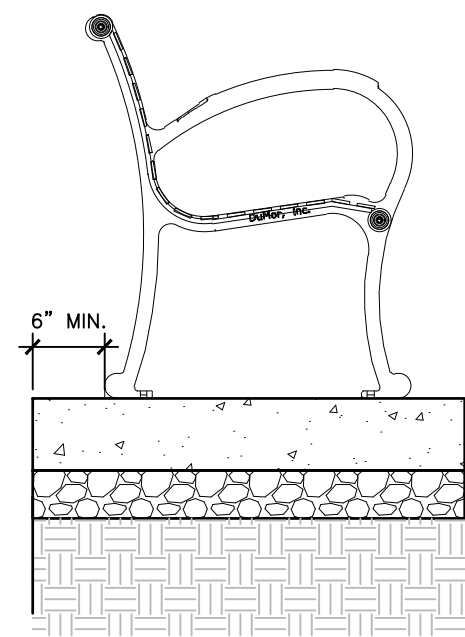
1 CONCRETE SEAT WALL
1" = 1'



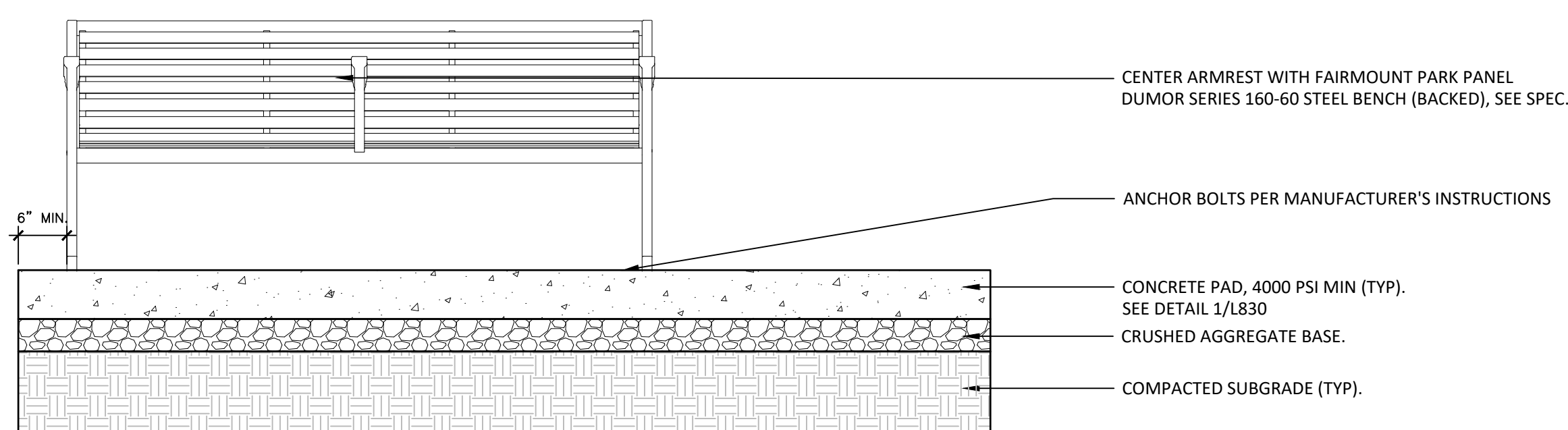
3 PPR STANDARD TRASH RECEPTACLES
3/4" = 1'-0"



PLAN

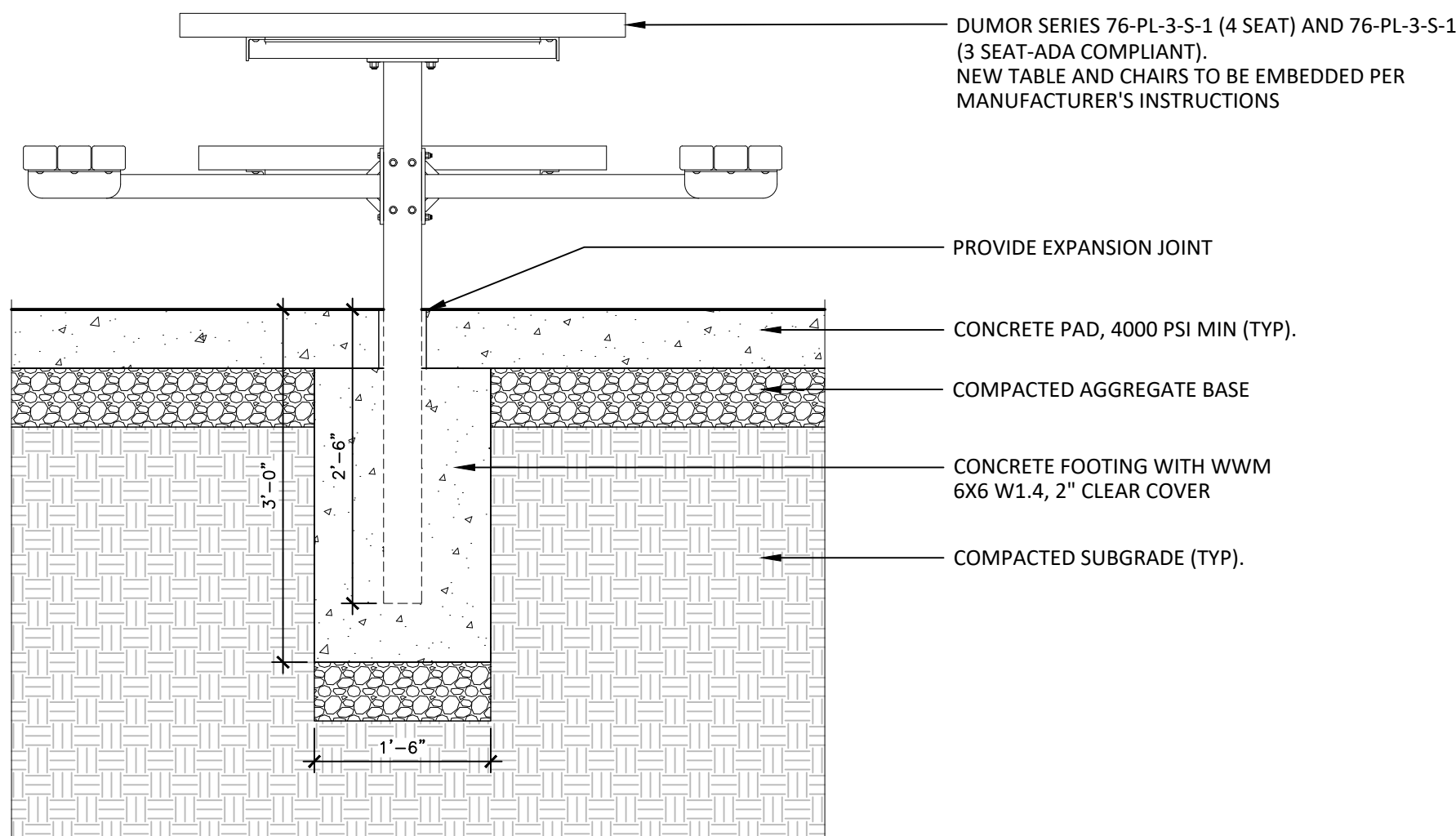


SECTION



SECTION

2 PPR STANDARD BENCH
3/4" = 1'-0"



4 PPR STANDARD PICNIC SEATING
3/4" = 1'-0"

WEST MILL CREEK PLAYGROUND AREAS E & G

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3	05/09/2025	CONSTRUCTION DOCUMENTS 100%

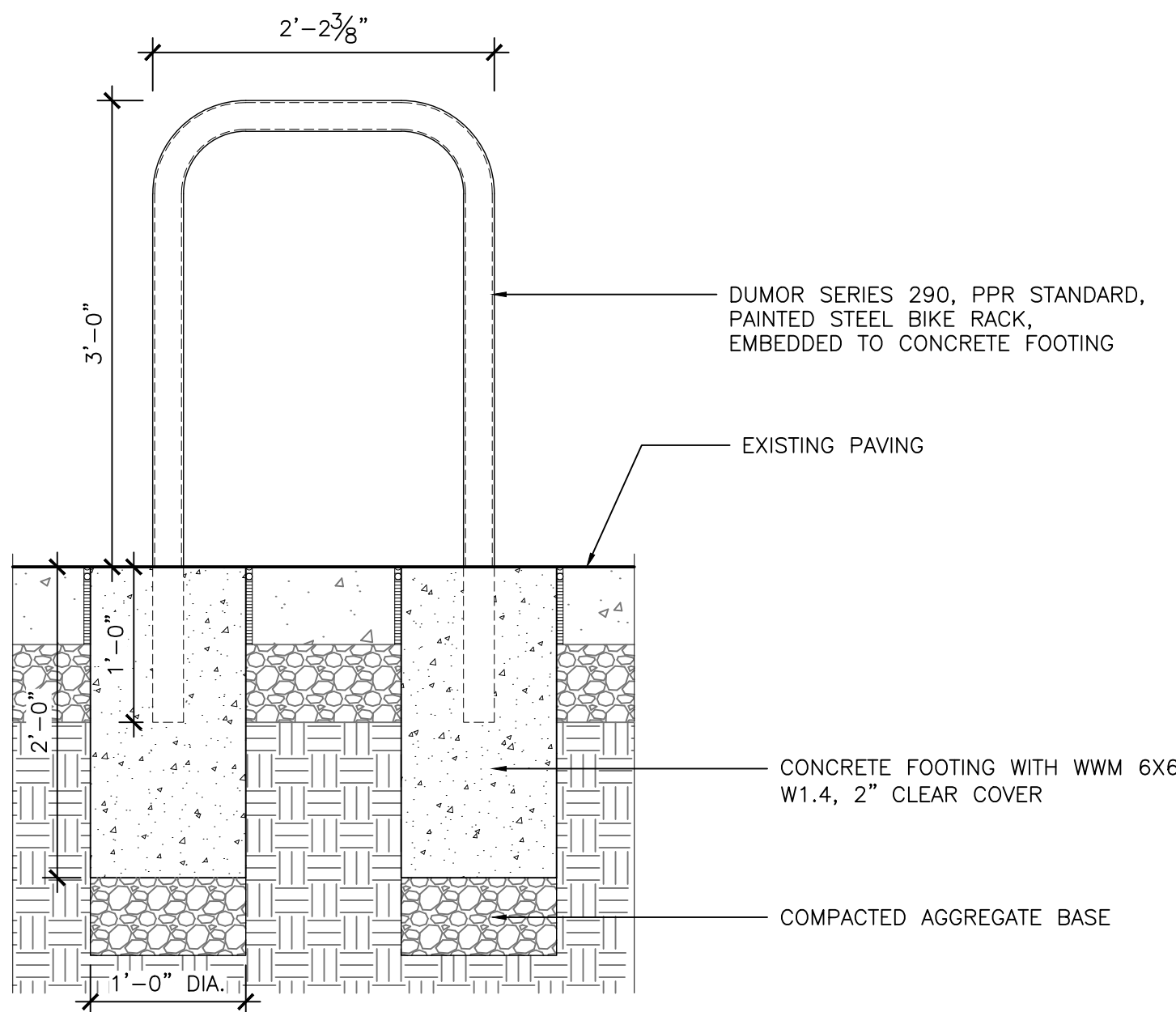


DETAILS SITE FURNISHINGS

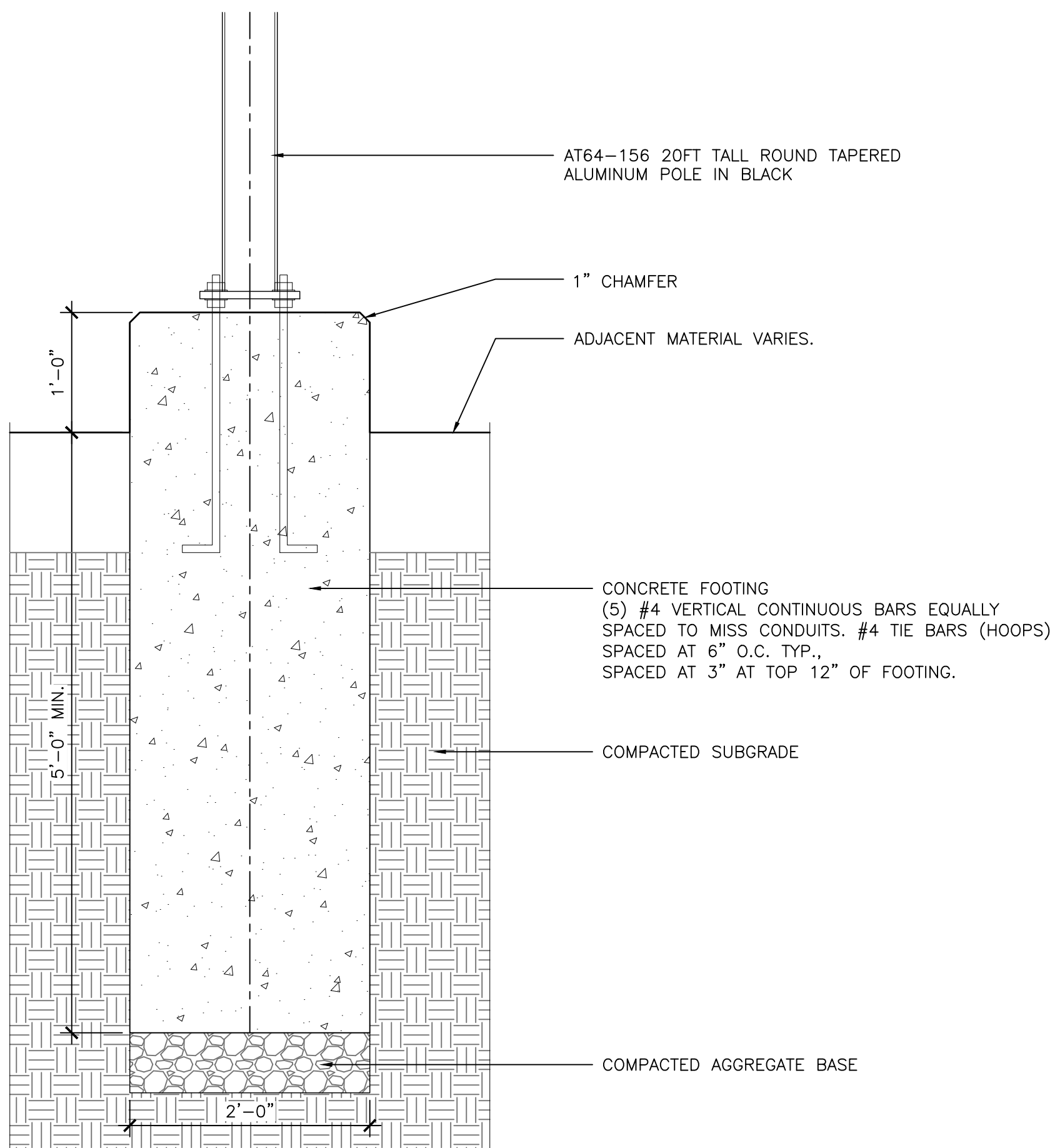
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Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

L840

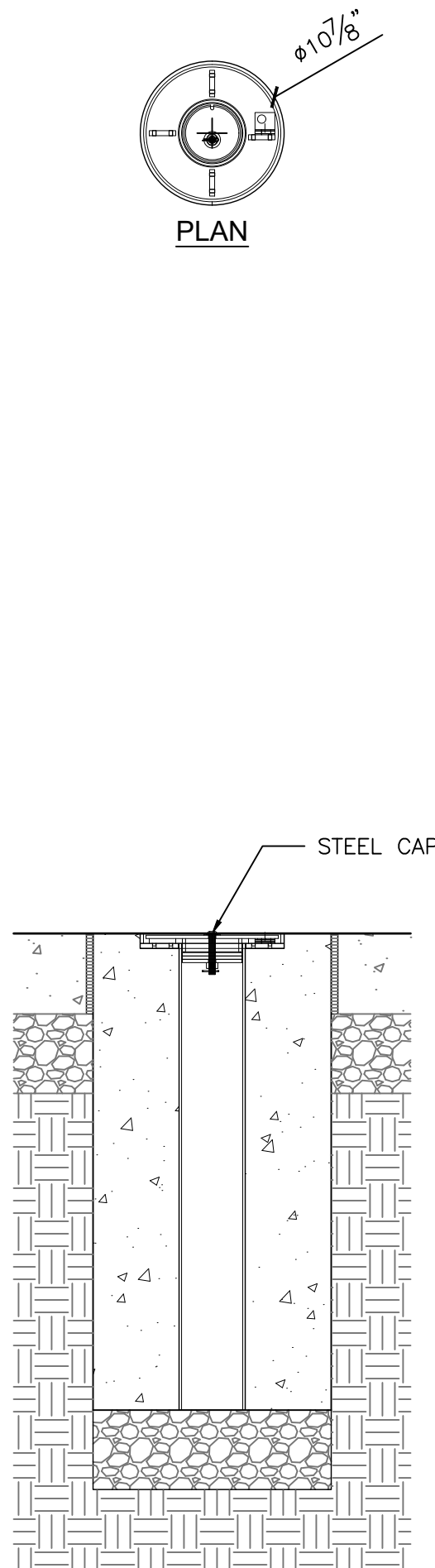
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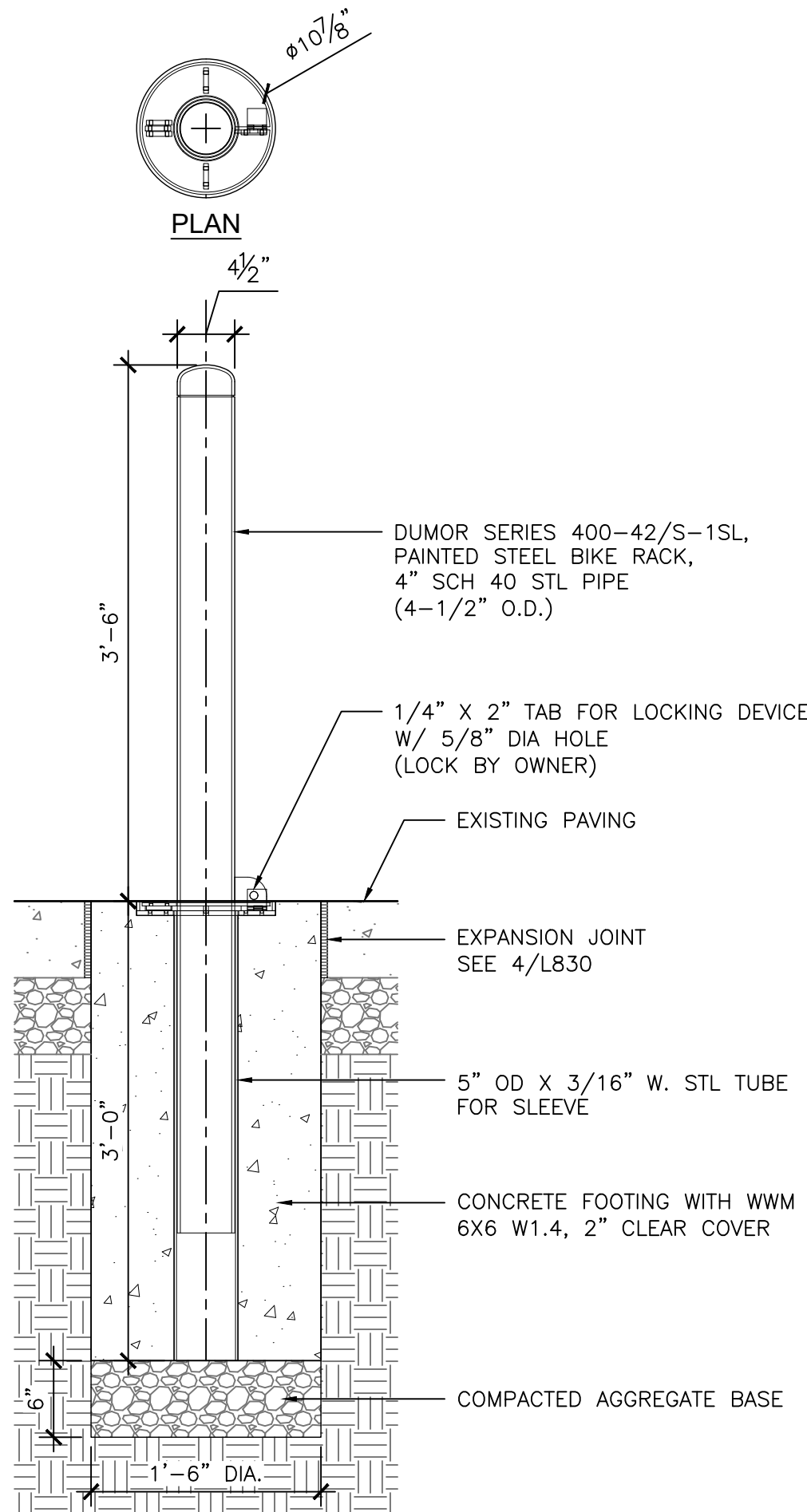
1 PPR STANDARD BIKE RACKS



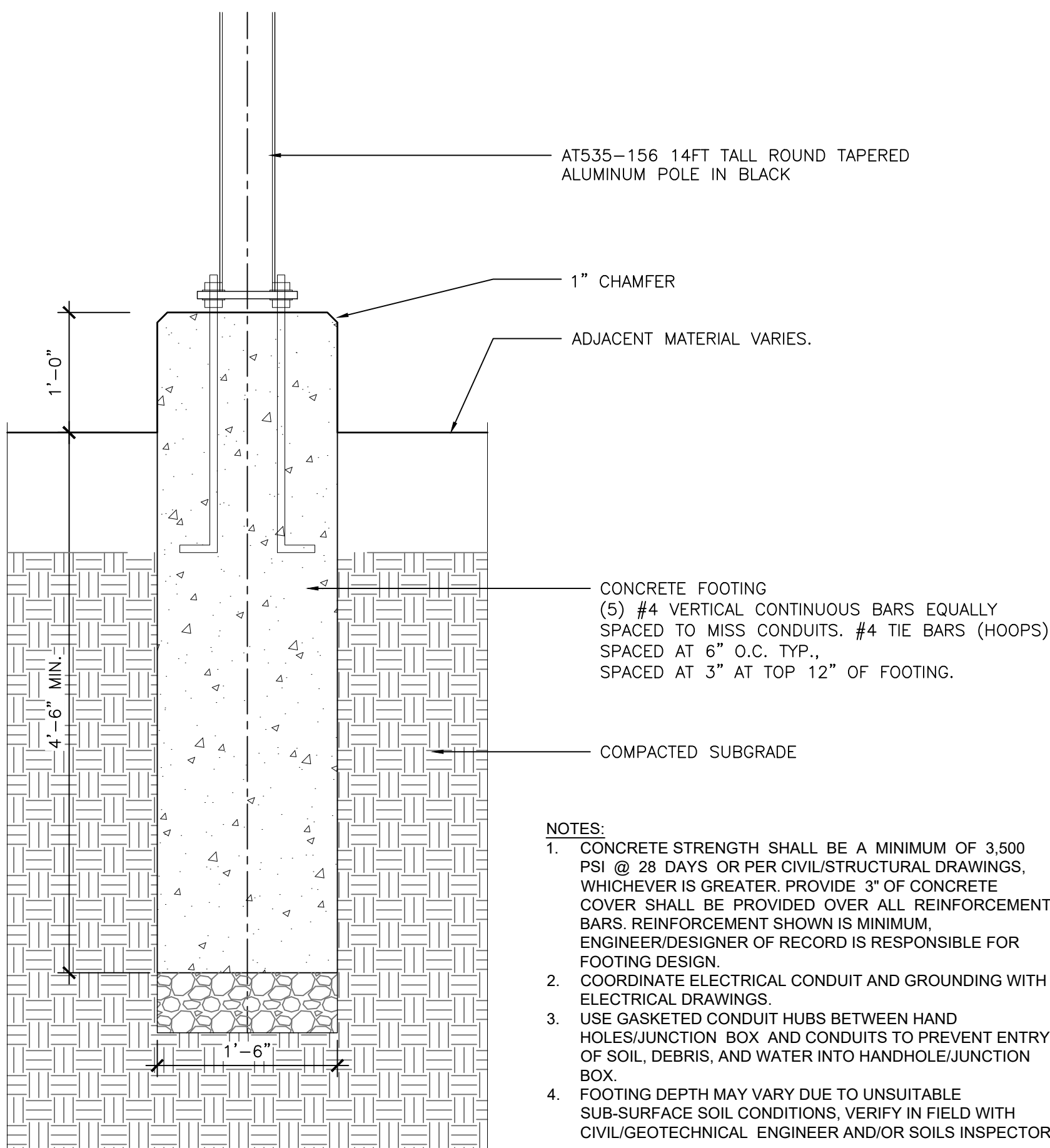
3 PPR STANDARD 20 FT POLE LIGHT



2 REMOVABLE BOLLARD



NOTES: LOCKING DEVICE PROVIDED BY OTHER.



4 PPR STANDARD 14 FT POLE LIGHT

- NOTES:
1. CONCRETE STRENGTH SHALL BE A MINIMUM OF 3,500 PSI @ 28 DAYS OR PER CIVIL/STRUCTURAL DRAWINGS, WHICHEVER IS GREATER. PROVIDE 3" OF CONCRETE COVER SHALL BE PROVIDED OVER ALL REINFORCEMENT BARS. REINFORCEMENT SHOWN IS MINIMUM. ENGINEER/DESIGNER OF RECORD IS RESPONSIBLE FOR FOOTING DESIGN.
 2. COORDINATE ELECTRICAL CONDUIT AND GROUNDING WITH ELECTRICAL DRAWINGS.
 3. USE GASKETED CONDUIT HUBS BETWEEN HAND HOLES/JUNCTION BOX AND CONDUITS TO PREVENT ENTRY OF SOIL, DEBRIS, AND WATER INTO HANDHOLE/JUNCTION BOX.
 4. FOOTING DEPTH MAY VARY DUE TO UNSUITABLE SUB-SURFACE SOIL CONDITIONS. VERIFY IN FIELD WITH CIVIL/GEOTECHNICAL ENGINEER AND/OR SOILS INSPECTOR.

WEST MILL CREEK PLAYGROUND AREAS E & G

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2	10/25/2024	DESIGN DEVELOPMENT 100%
3	05/09/2025	CONSTRUCTION DOCUMENTS 100%



DETAILS SITE FURNISHINGS

Scale: AS NOTED
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

L841

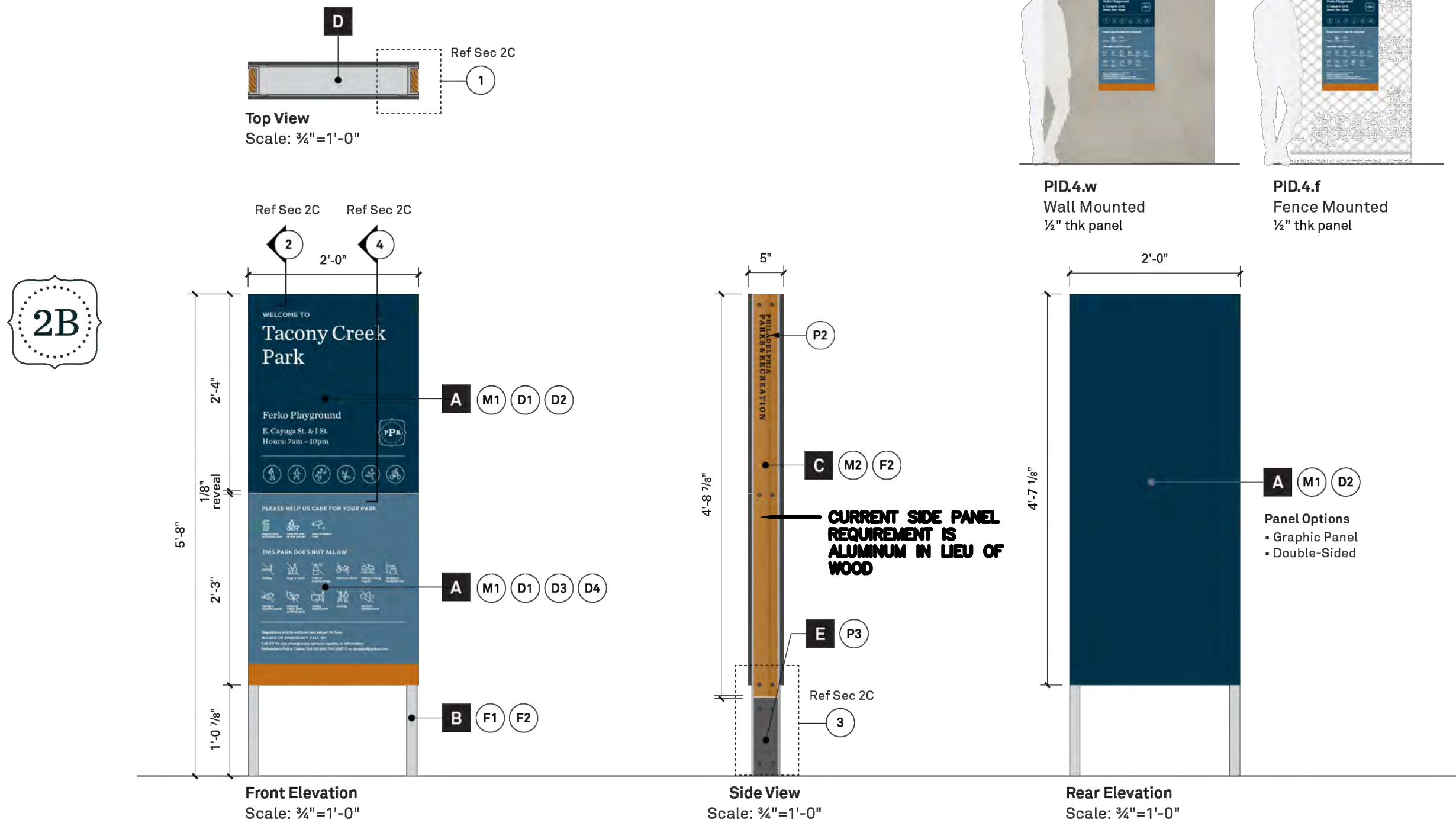
Y:\Projects 2024\2409--West Mill Creek E & G Site Improvements\CAD\3D\OLIN\Plotsheets\L842--Details -- Site Signage.dwg; Soto, Takashi 6/10/2025 8:58:21 PM

PID.4

Sign Type Description

This sign type is a pedestrian-scale park identification sign. This sign type can be used at all property types to identify a field complex or other property assets.

GENERAL NOTE:
SIGNAGE TYPES ARE FOR REFERENCE ONLY.
SIGNAGE CONTENT WILL BE CONFIRMED BY
OWNER IN SHOP DRAWING REVIEW PROCESS.



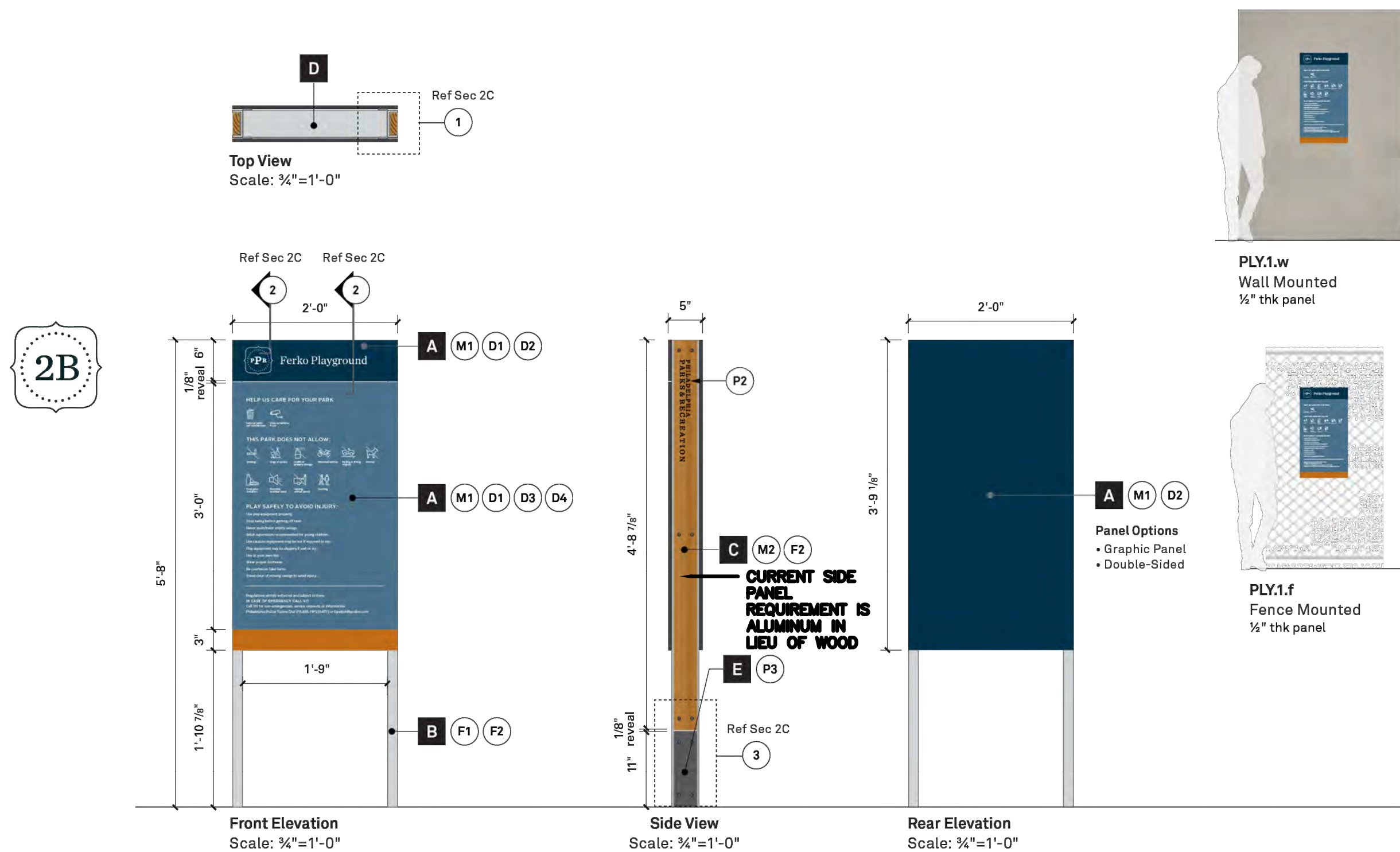
- A Sign Panels**
Sizes vary. 1/4" thk custom high pressure laminate panels (CHPL). Printed messages and panel colors. Match colors as noted.
- B Aluminum Channel**
4" x 1 1/4" x .125 web 6063-T52 architectural (non-tapered) aluminum channel. Lengths vary. Finished and coated to match as noted.
- C Logo Panels**
3 3/8" x 1" thk black locust lumber. #1 grade, eased edges. Lengths vary. Laser etch and fill logo graphic. UV clear coated. Recess fasteners, first and second surfaces. See Detail 3 for fastener connections and sizes.
- D Support Tube**
2 x 4 aluminum tube welded to Aluminum Channels.
- E Footer Attachment**
3 3/8" x 1" thk aluminum welded to 1/4" thk aluminum plate. Drill and tap as required. Painted to match color as noted. Attach plate to concrete footer. Secure sign (channels) to footer attachments. Footer plate should be below grade and covered as specified in Detail 3.

1 | PPR SIGN: PID.4
SCALE: 3/4" = 1'

PLY.1

Sign Type Description

This sign type is used to identify a playground within a Philadelphia Parks & Recreation site. This sign type is also used to post the play-ground rules and regulations.



- A Sign Panels**
Sizes vary. 1/4" thk custom high pressure laminate panels (CHPL). Printed messages and panel colors. Match colors as noted.
- B Aluminum Channel**
4" x 1 1/4" x .125 web 6063-T52 architectural (non-tapered) aluminum channel. Lengths vary. Finished and coated to match as noted.
- C Logo Panels**
3 3/8" x 1" thk black locust lumber. #1 grade, eased edges. Lengths vary. Laser etch and fill logo graphic. UV clear coated. Recess fasteners, first and second surfaces. See Detail 3 for fastener connections and sizes.
- D Support Tube**
2 x 4 aluminum tube welded to Aluminum Channels.
- E Footer Attachment**
3 3/8" x 1" thk aluminum welded to 1/4" thk aluminum plate. Drill and tap as required. Painted to match color as noted. Attach plate to concrete footer. Secure sign (channels) to footer attachments. Footer plate should be below grade and covered as specified in Detail 3.

2 | PPR SIGN: PLY.1
SCALE: VARIES

WEST MILL CREEK PLAYGROUND AREAS E & G

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No.	Date	Description
1	07/31/2024	SCHEMATIC DESIGN 100%
2	10/25/2024	DESIGN DEVELOPMENT 100%
3	05/09/2025	CONSTRUCTION DOCUMENTS 100%



DETAILS - SITE SIGNAGE

Scale: NA
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

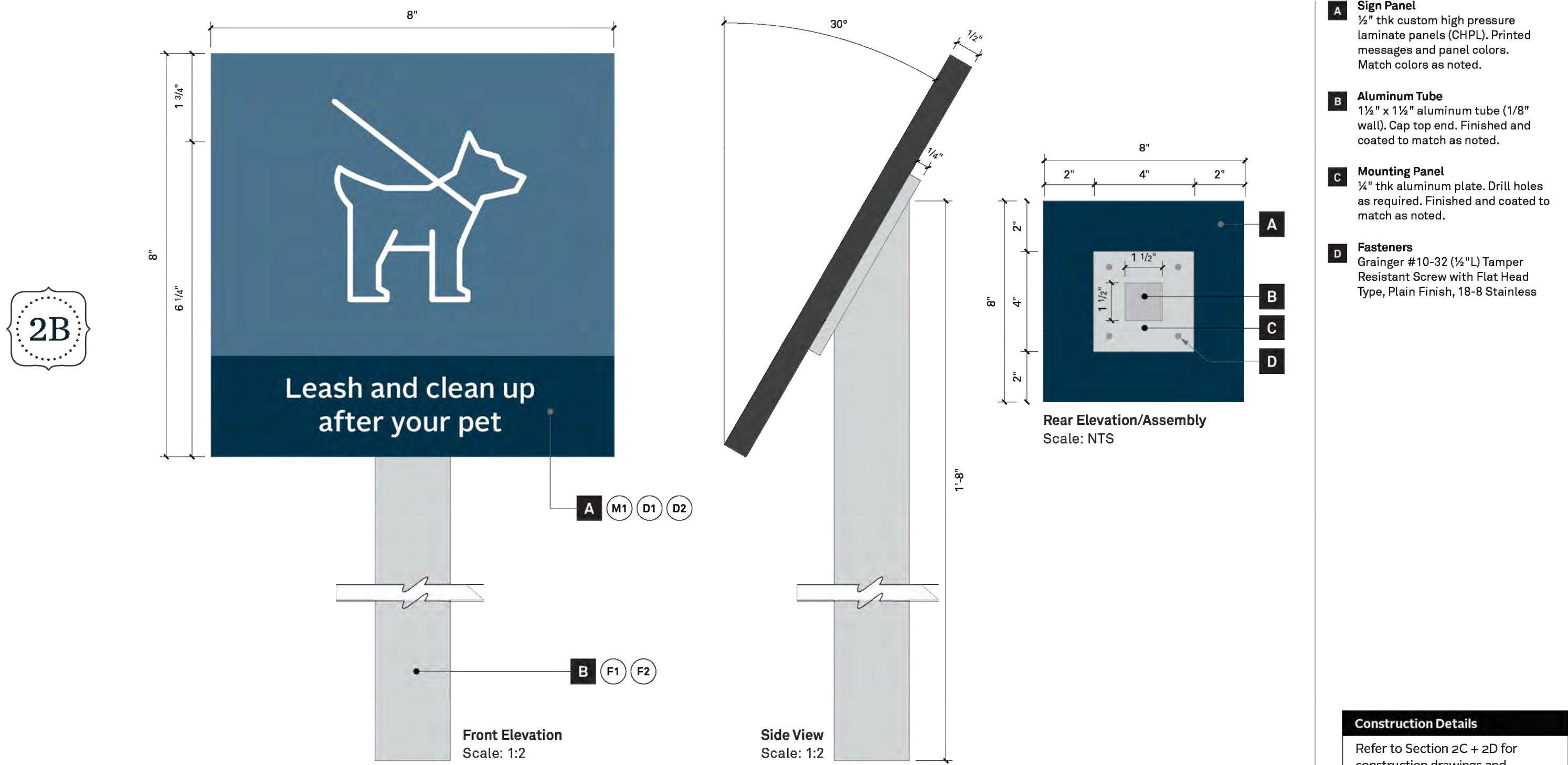
L842

Y:\Projects 2024\2409--West Mill Creek E & G Site Improvements\CAD\30D\OLIN\Plotsheets\L_843--Details -- Site Signage.dwg; Soto, Takashi 6/10/2025 8:57:08 PM

RUL.7

Sign Type Description

This sign type is used to post a singular regulatory message throughout a Philadelphia Parks & Recreation site/facility.

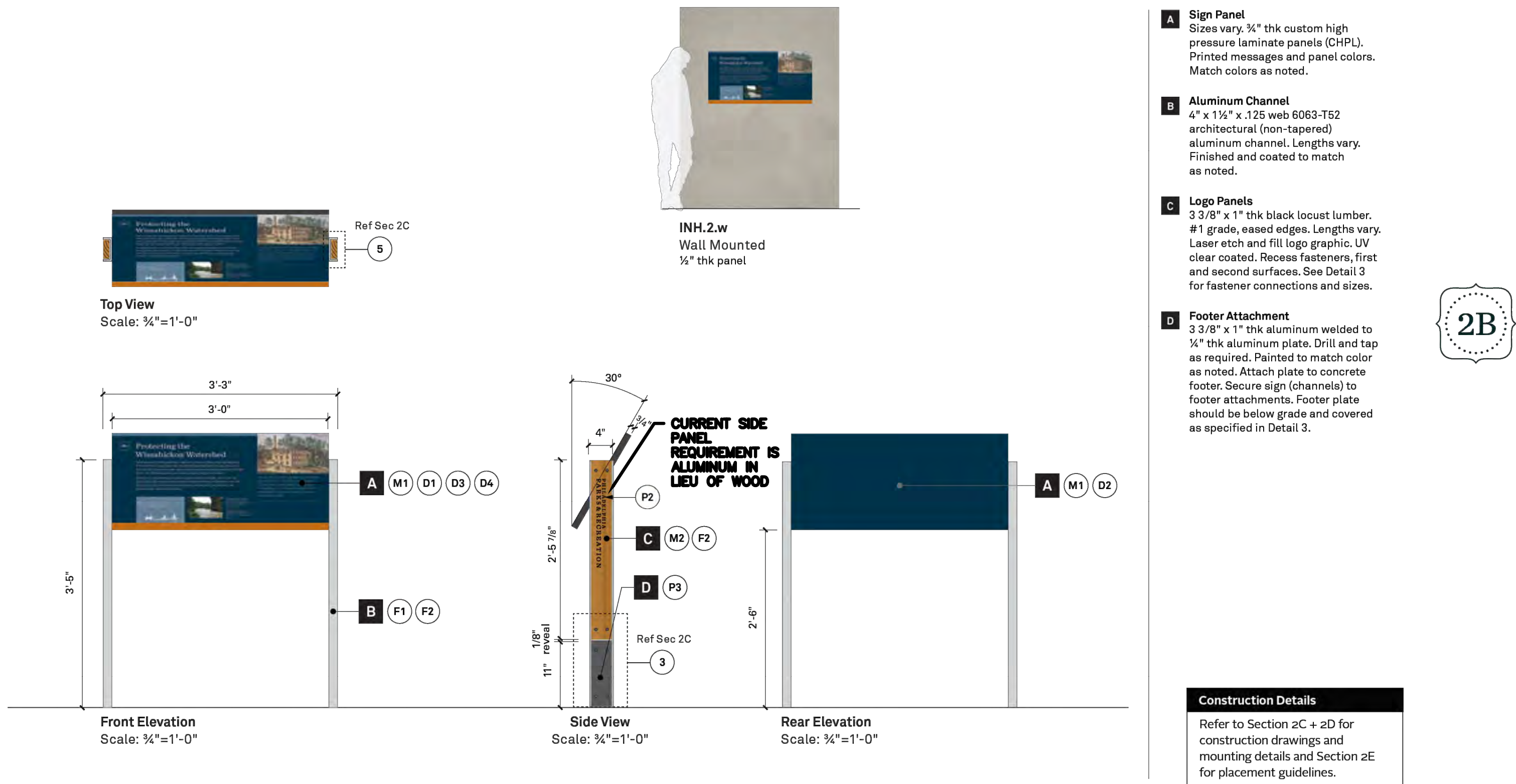


1 | PPR SIGN: RUL.7
SCALE: 1:2

INH.2

Sign Type Description

This sign type is used to interpret a property element or history of the site or structure. This sign type accommodates one 150-word story and 2 - 4 images.



2 | PPR SIGN: INH.2
SCALE: VARIES

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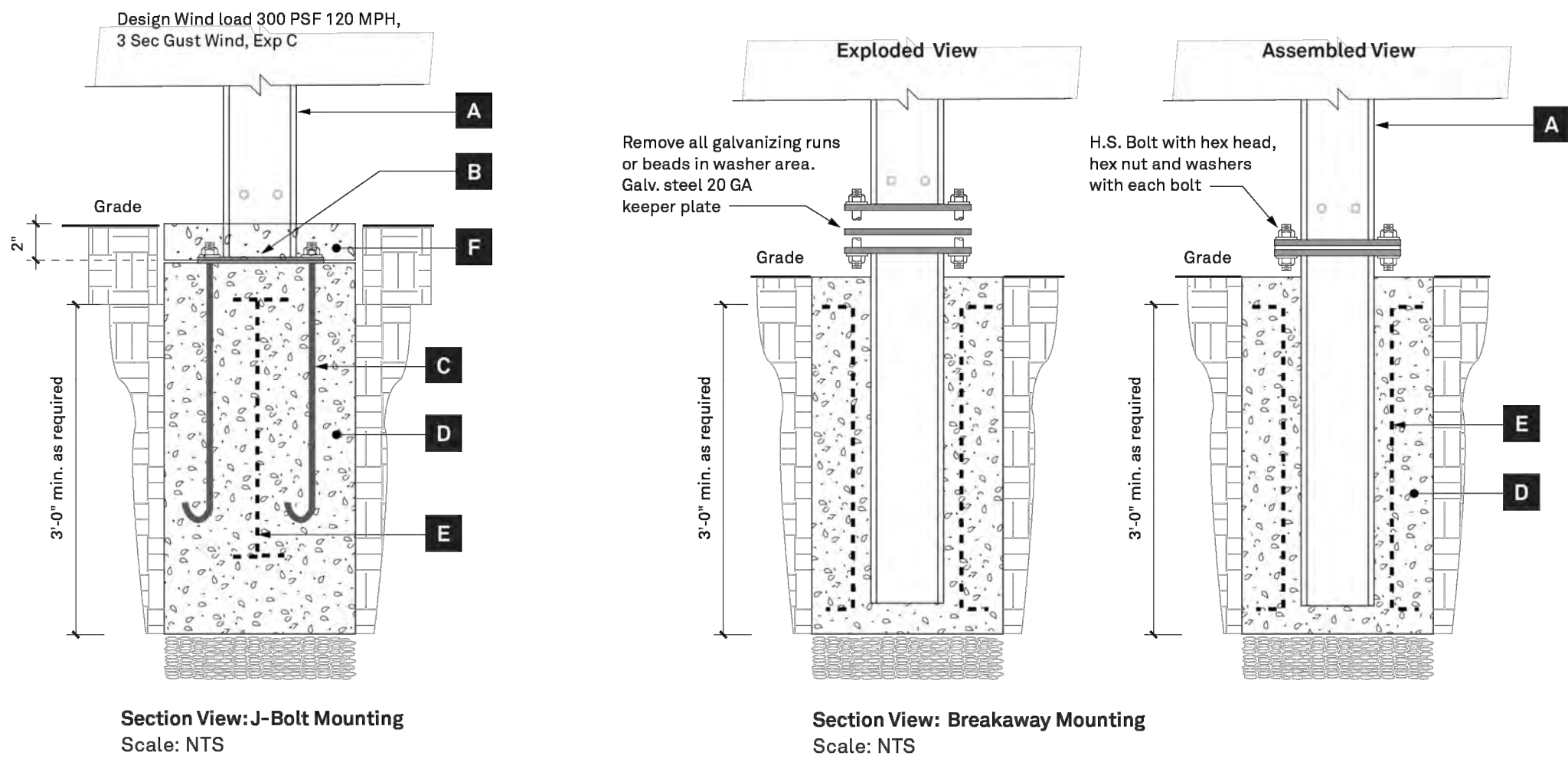
DETAILS - SITE SIGNAGE

Scale: NA
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

L843

INSTALLATION DETAILS | footing details

2D



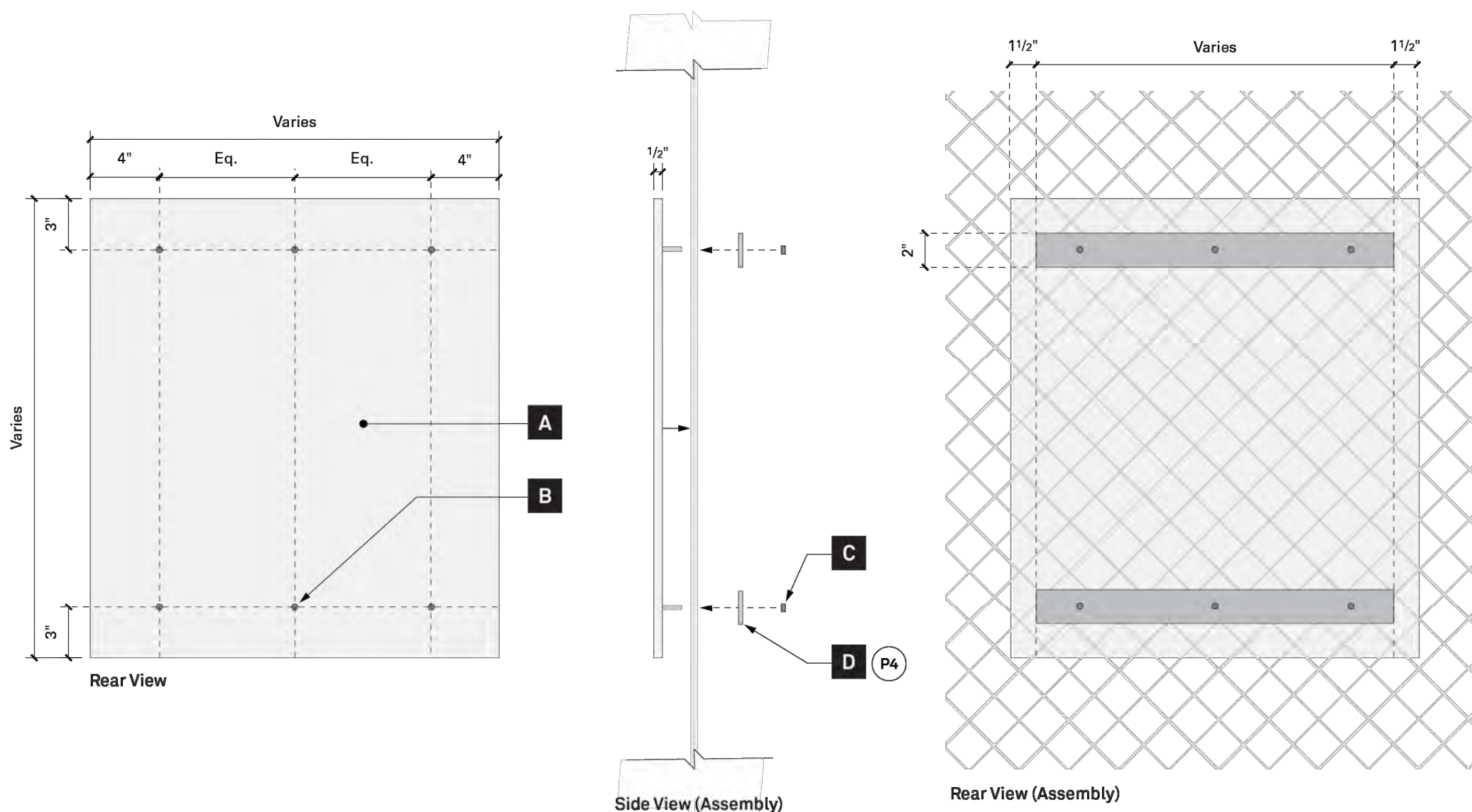
- A Aluminum Channel**
4" x 1 1/2" x .125 web 6063-T52 architectural (non-tapered) aluminum channel. Lengths vary.
- B Aluminum Plate**
1/4" thick aluminum plate. Drill and tap as required. Attach plate to concrete footer. Secure sign (channels) to footer attachments.
- C J-Bolts**
1" diameter steel J-Bolts.
- D Concrete Footer**
Poured in place concrete footer 5,400 psi at 28 Days. Provide weather seal sand and gravel at footing. Compacted crushed stone as required.
- E Rebar**
Typical vertical rebar as required.
- F Finished Concrete**
Minimum 2" thick concrete: poured, formed, brush finished, flush at grade.

NOTE: When locating a footer within a single pavement block (max. 5'-0" x 5'-0"), adjacent to at least 2 expansion joints, the entire block of pavement shall be removed and replaced with the same materials and finish of adjacent sidewalk areas.

1 PPR SIGN: CONCRETE FOOTING DETAIL
SCALE: NTS

CONSTRUCTION DETAILS | fence mount details

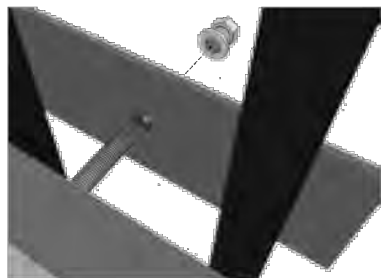
2C



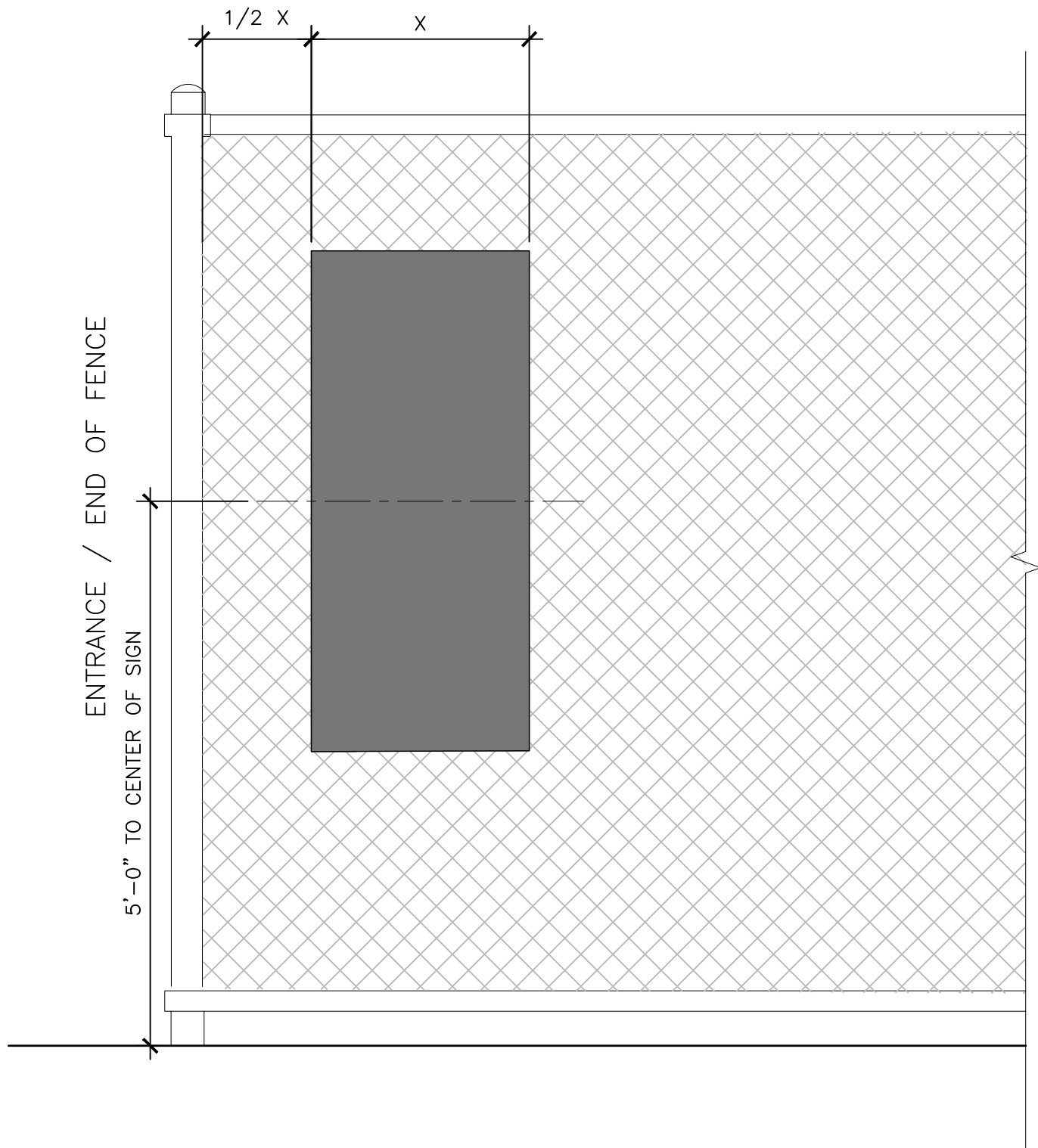
- A Sign Panel**
Sizes vary. Custom high pressure laminate panels (CHPL). Printed messages and panel colors.
- B Threaded Stud**
Fully threaded stainless steel stud. Diameter and length as required. Pass through fence with horizontal bracing and locknut installed at second surface.
- C Tamperproof Locknut**
Bryce Fastener, Penta-Nut, 316 stainless steel. Size as required.
- D Mounting Plate / Horizontal Brace**
1/4" thick aluminum plate. Sizes vary. Drill holes in locations as specified or required. Paint to match color as noted.



Recommended Locknut for fence attachment



Assembly Detail



- NOTE:**
- ASSUME PPR STANDARD PID.4.F PARK IDENTIFICATION SIGNAGE. DESIGN SHALL BE PROVIDED BY PPR. CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT AND INSTALLATION.
 - SIGNAGE SHALL BE 1/2" THICK CUSTOM HIGH PRESSURE LAMINATE (CHPL) PANEL, MOUNTED ON EXISTING CHAINLINK FENCE. ATTACHMENT SHALL NOT BE VISIBLE FROM FACE OF SIGN.
 - ASSUME W2'-0" X H4'-7 1/8" SIGNAGE FOR PRICING
 - SEE SIGNAGE SPEC FOR DETAILS.
 - FIELD VERIFY SIGNAGE MOUNT LOCATION WITH LANDSCAPE ARCHITECT.

2 PPR SIGN: WALL MOUNT DETAILS
SCALE: NTS

3 WALL MOUNT SIGN PLACEMENT
SCALE: 3/4" = 1'

WEST MILL CREEK PLAYGROUND AREAS E & G

5100 Parrish St.
Philadelphia, PA 19139

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ONE PENN CENTER
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PHILADELPHIA, PA 19103
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Structural:
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Bethlehem, PA 18017
(484) 895-3131

MEP:
Mark Ulrick
30 N. 41ST SUITE 500
Philadelphia, PA 19104
(856) 320-8100

No.	Date	Description
1	07/31/2024	SCHEMATIC DESIGN 100%
2	10/25/2024	DESIGN DEVELOPMENT 100%
3	05/09/2025	CONSTRUCTION DOCUMENTS 100%

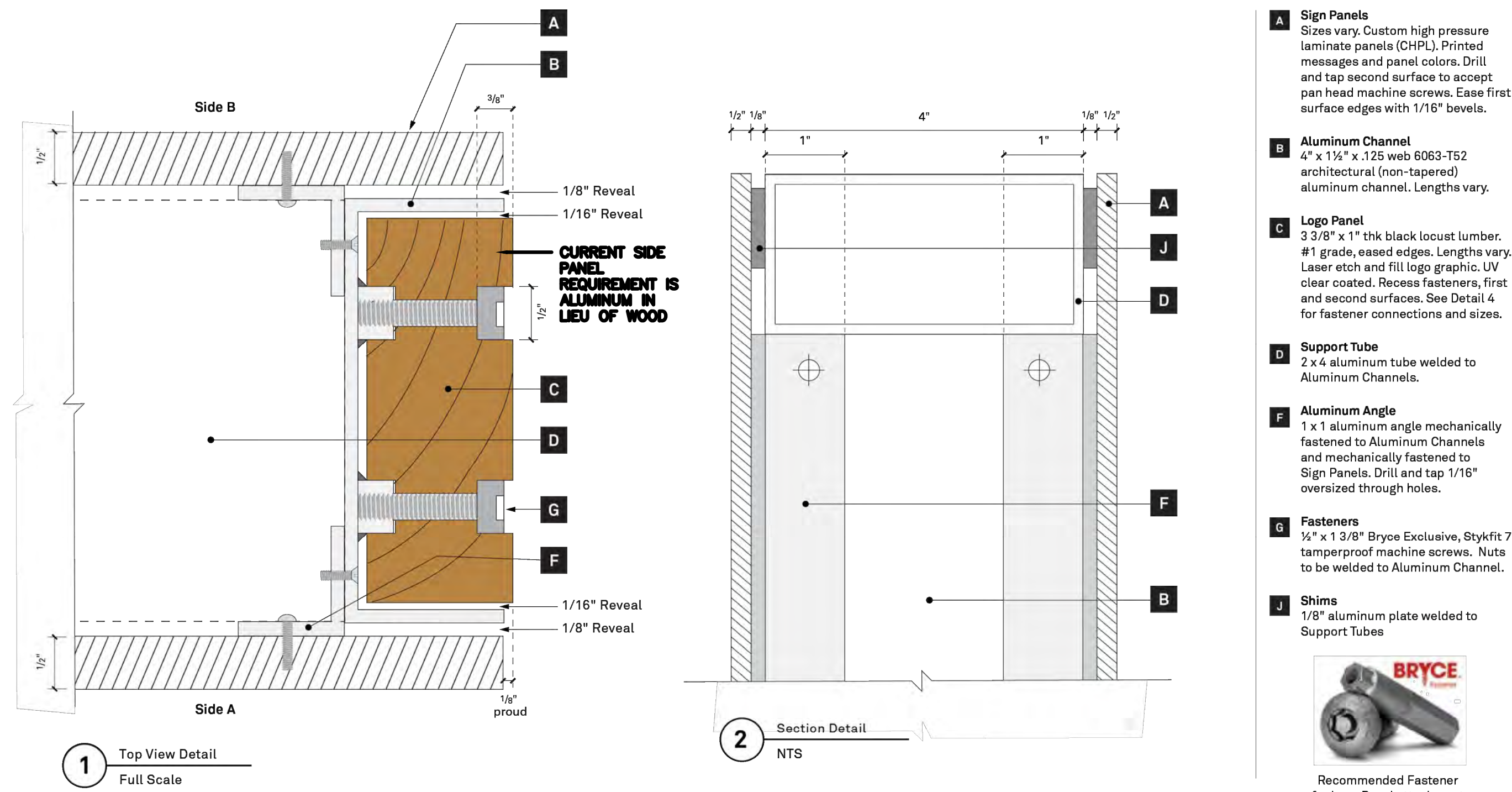


DETAILS - SITE SIGNAGE

Scale: NA
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

L844

CONSTRUCTION DETAILS | post mount details



- A** **Sign Panels**
Size varies. Custom high pressure laminate panels (HPL). Printed messages and panel colors. Drill and tap second surface to accept pan head machine screws. Ease first surface edges with 1/16" bevels.
 - B** **Aluminum Channel**
4" x 1 1/4" x .125 web 6063-T52 architectural (non-tempered) aluminum channel. Lengths vary.
 - C** **Logo Panel**
3/8" x 1 1/2" thick black locust lumber. #1 grade, eased edges. Lengths vary. Laser etched and fill logo graphic. UV clear coated. Receses fasteners, first and second surfaces. See Detail 4 for fastener connections and sizes.
 - D** **Support Tube**
2" x 4 aluminum tube welded to Aluminum Channels.
 - E** **Aluminum Angle**
1 x 1 aluminum angle mechanically fastened to Aluminum Channels and mechanically fastened to Sign Panels. Drill and tap 1/16" oversized through holes.
 - F** **Fasteners**
1/4" x 1 3/8" Bryco Exulose, StykT7 tamperproof machine screws. Nuts to be welded to Aluminum Channel.
 - G** **Shims**
1/8" aluminum plate welded to Support Tubes

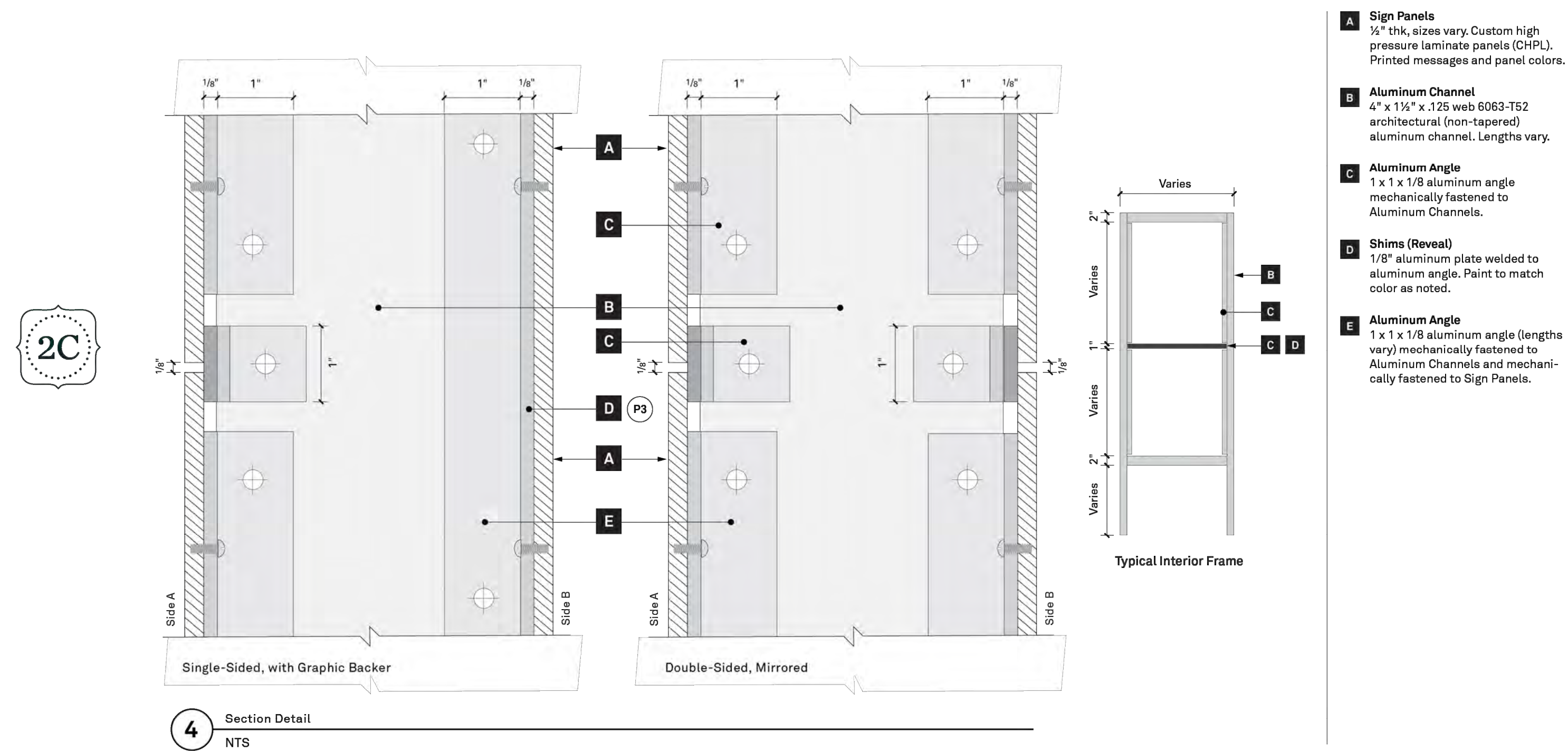


Recommended Fastener
for Logo Panel attachment

1 | PPR SIGN: POST MOUNT DETAILS

SCALE: NTS

CONSTRUCTION DETAILS | post mount details



- A** **Sign Panels**
½" thick, sizes vary. Custom high pressure laminate panels (CHPL). Printed messages and panel colors.
- B** **Aluminum Channel**
4" x 1½" x .125 x web 6063-T52 architectural (non-tapered) aluminum channel. Lengths vary.
- C** **Aluminum Angle**
1 x 1 x 1/8 aluminum angle mechanically fastened to Aluminum Channels.
- D** **Shims (Reveal)**
1/8" aluminum plate welded to aluminum angle. Paint to match color as noted.
- E** **Aluminum Angle**
1 x 1 x 1/8 aluminum angle (lengths vary) mechanically fastened to Aluminum Channels and mechanically fastened to Sign Panels.

2 | PPR SIGN: POST MOUNT DETAILS

SCALE: NTS

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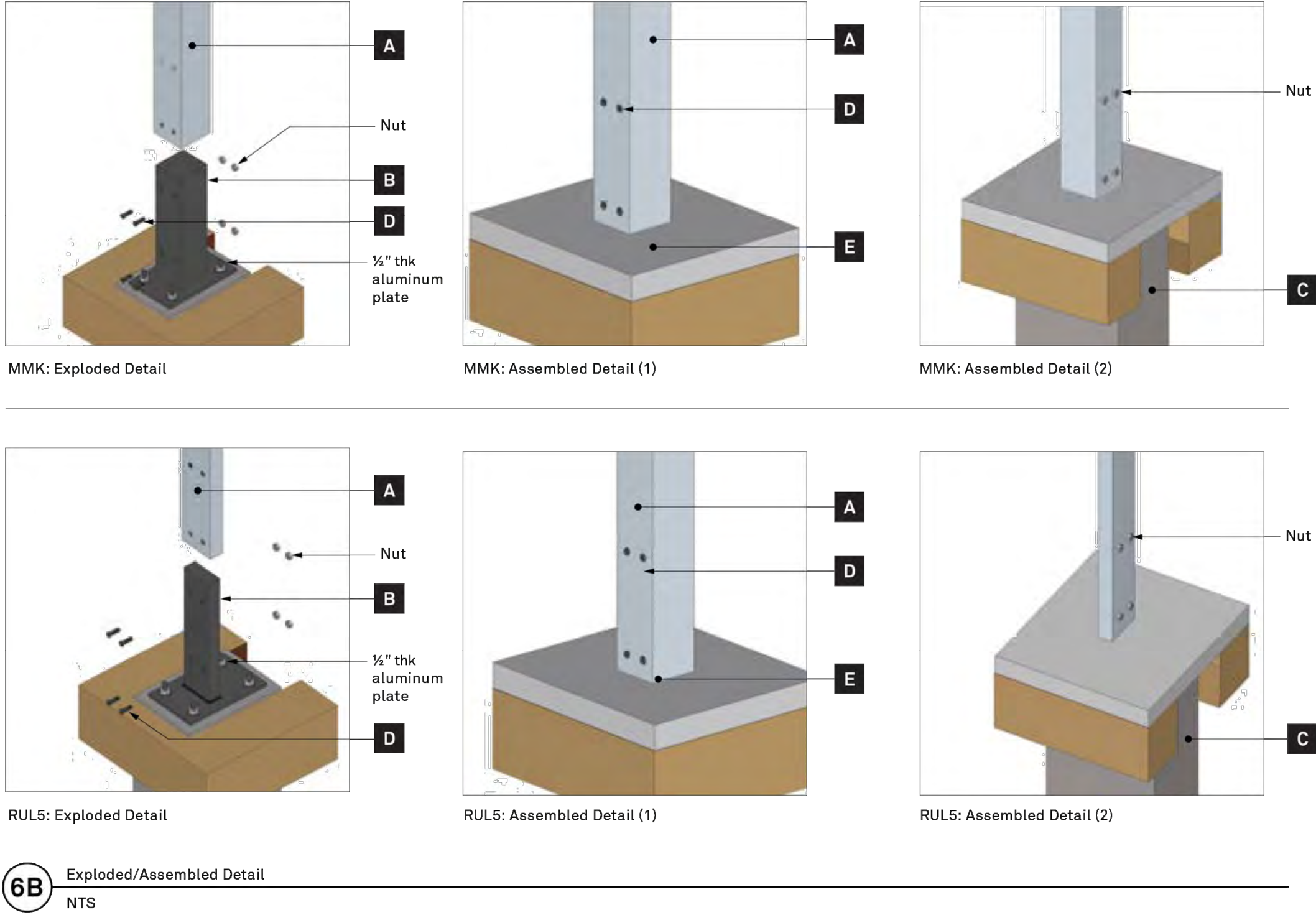
DETAILS - SITE SIGNAGE

Scale: NA
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

L845

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INSTALLATION DETAILS | post mount / footing



- A Aluminum Tube**
Aluminum tube. Lengths vary.
- B Footer Attachment**
Aluminum bar stock welded to 1/4" thk aluminum plate. Drill and tap as required. Attach plate to concrete footer. Secure sign (tube) to footer attachments.
- C Concrete Footer**
Poured in place concrete footer 5,400 psi at 28 Days. 1" diameter Steel J-Bolts. Typical vertical rebar as required. Provide weather seal sand and gravel at footing. Compacted crushed stone as required.
- D Fasteners**
1/4" Bryce Exclusive, Stykfit 7 tamperproof machine screws.
- E Finished Concrete**
Minimum 2" thick concrete: poured, formed, brush finished, flush at grade.

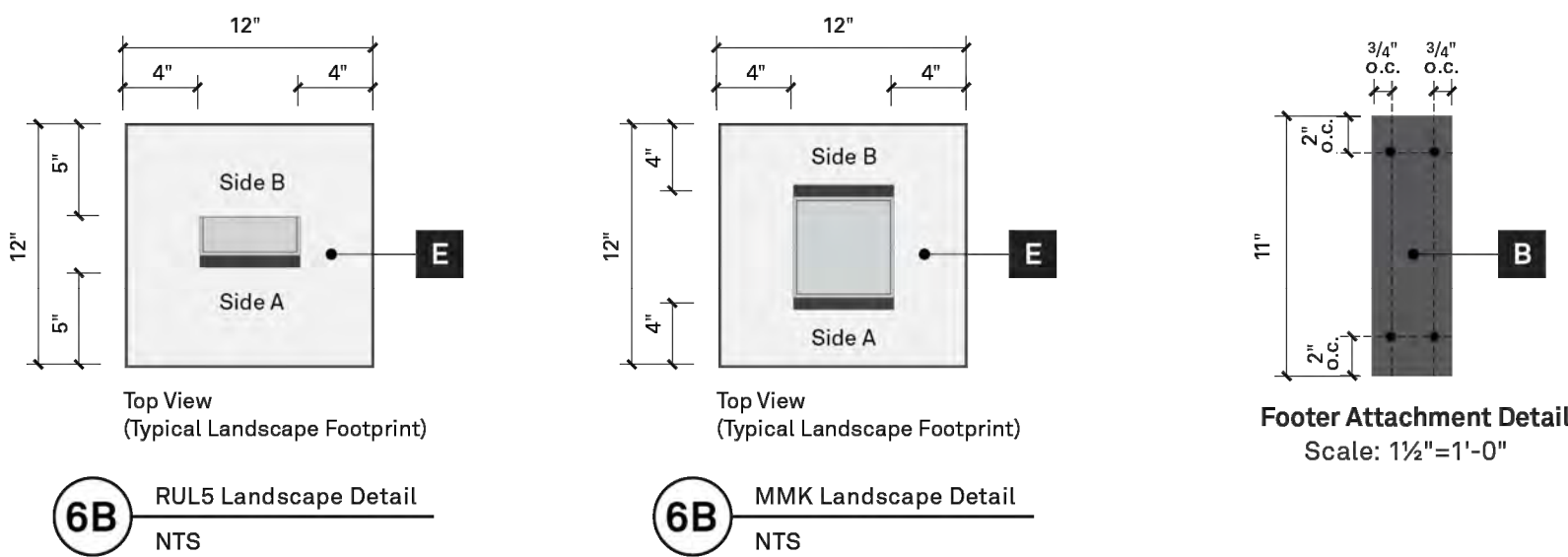


Recommended Fastener Lengths as required

2D

1 PPR SIGN: POST MOUNT DETAILS
SCALE: NTS

INSTALLATION DETAILS | post mount / footing



- B Footer Attachment**
Aluminum bar stock welded to 1/4" thk aluminum plate. Drill and tap as required. Attach plate to concrete footer. Secure sign (tube) to footer attachments.
- E Finished Concrete**
Minimum 2" thick concrete: poured, formed, brush finished, flush at grade.

2D

2 PPR SIGN: POST MOUNT DETAILS
SCALE: NTS

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MEP:
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2	10/25/2024	DESIGN DEVELOPMENT 100%
3	05/09/2025	CONSTRUCTION DOCUMENTS 100%



DETAILS - SITE SIGNAGE

Scale: NA
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

L847

/Users/taryndolius/Library/CloudStorage/Box-Box/Studio Ludo (mregion@studiodulo.org)/Projects/2403D_West Mill Creek/03_Design/01_CAD/Rhino/01_CAD/WestMillCreek_SHEETS_CD.dwg, Taryn Dolius 5/7/2025 4:13:34 PM

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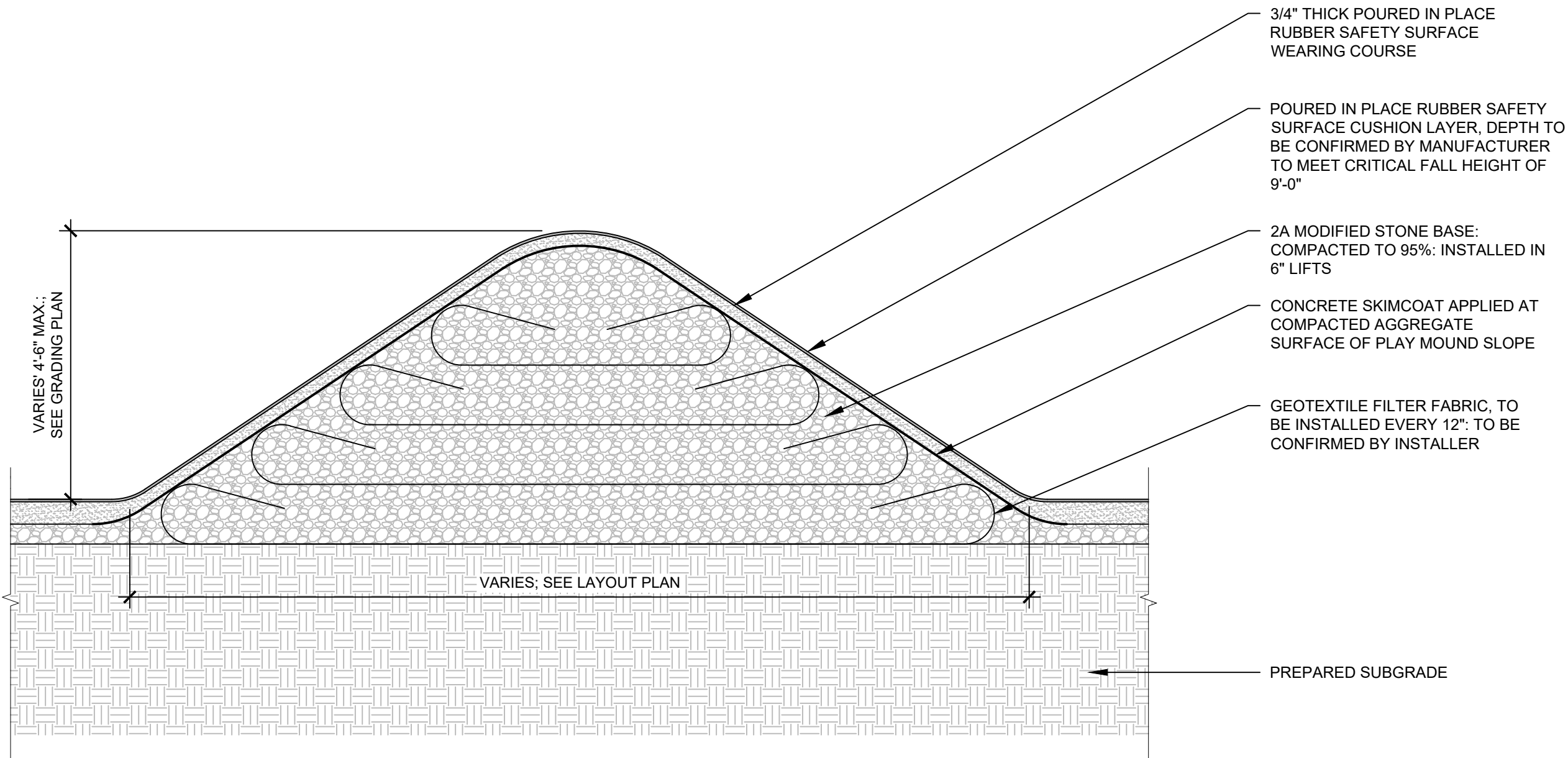
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2	10/25/2024	100% Design Development
3	5/09/2025	100% Construction Documents



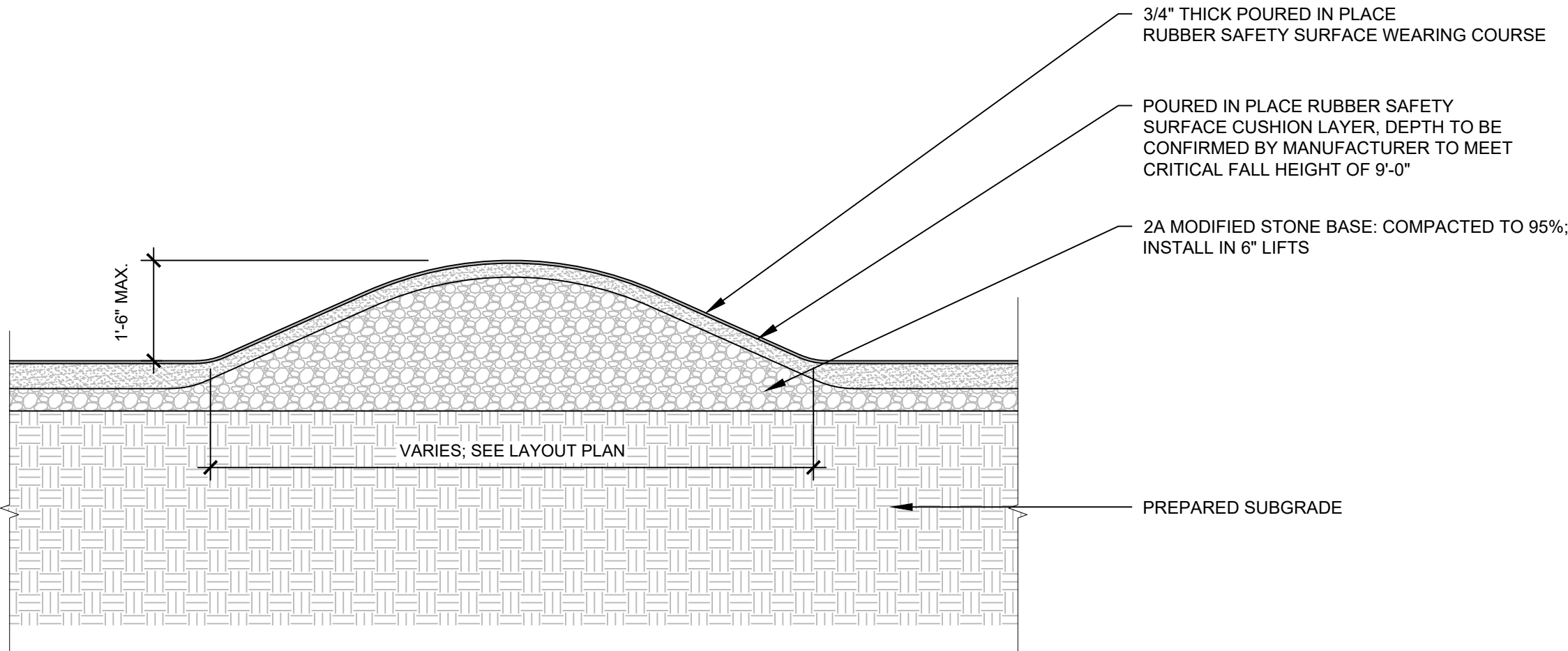
PLAY EQUIPMENT DETAILS

Scale: VARIES
Date: 2-21-2025
Drawn: TD
Checked: MT
Project No.: 2409

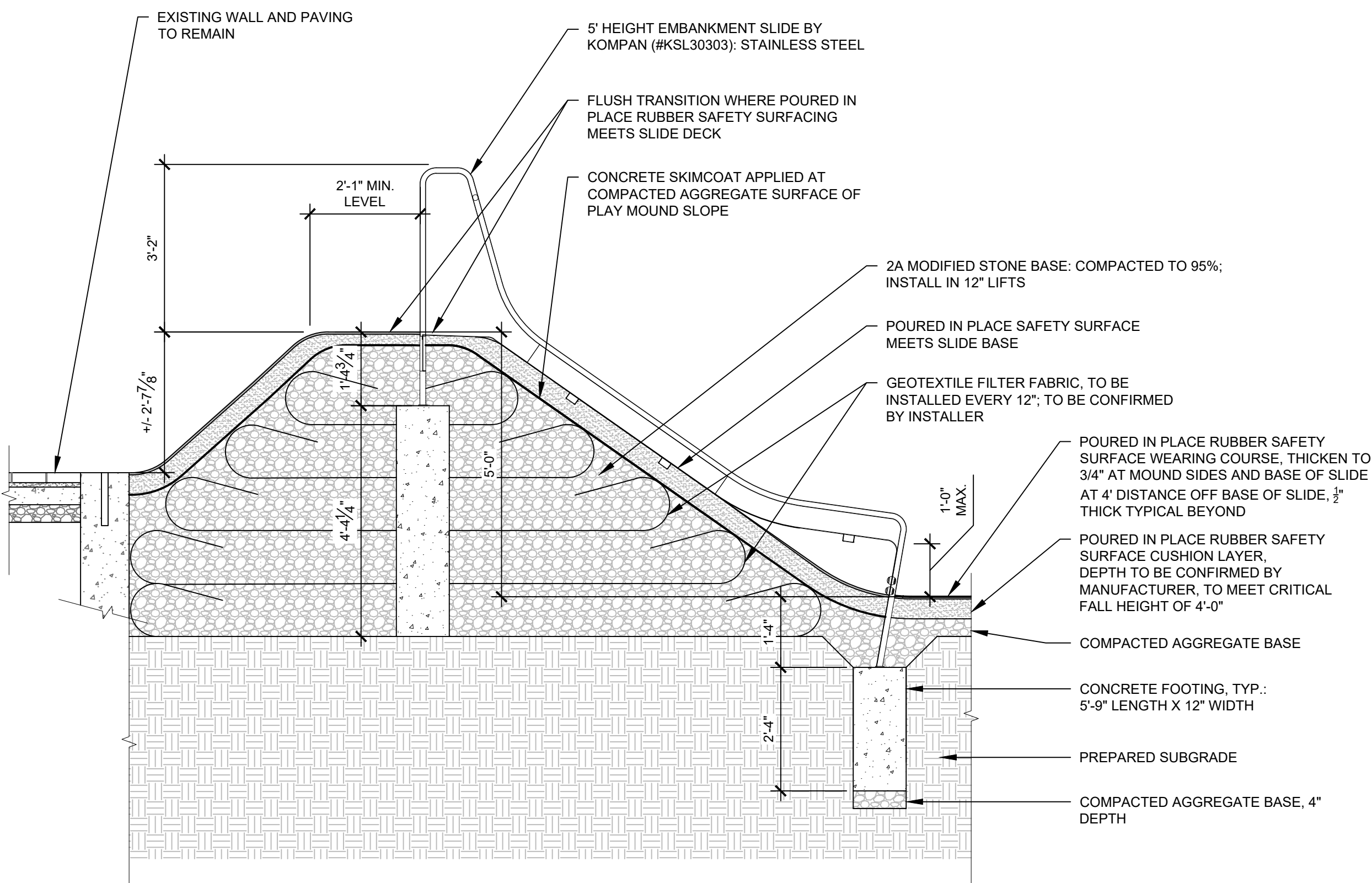
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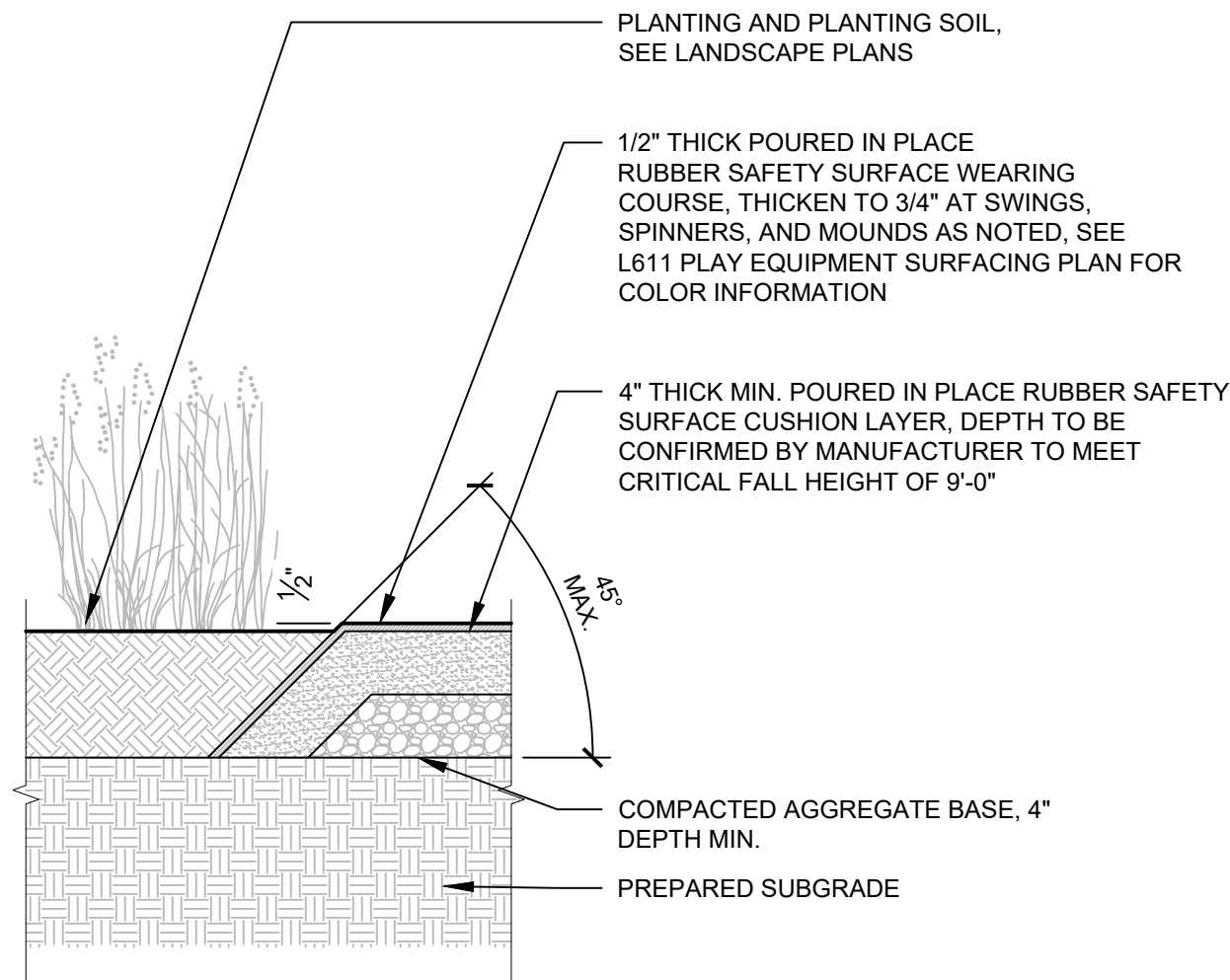
5 LARGE PLAY MOUND DETAIL
1/2"=1'-0"



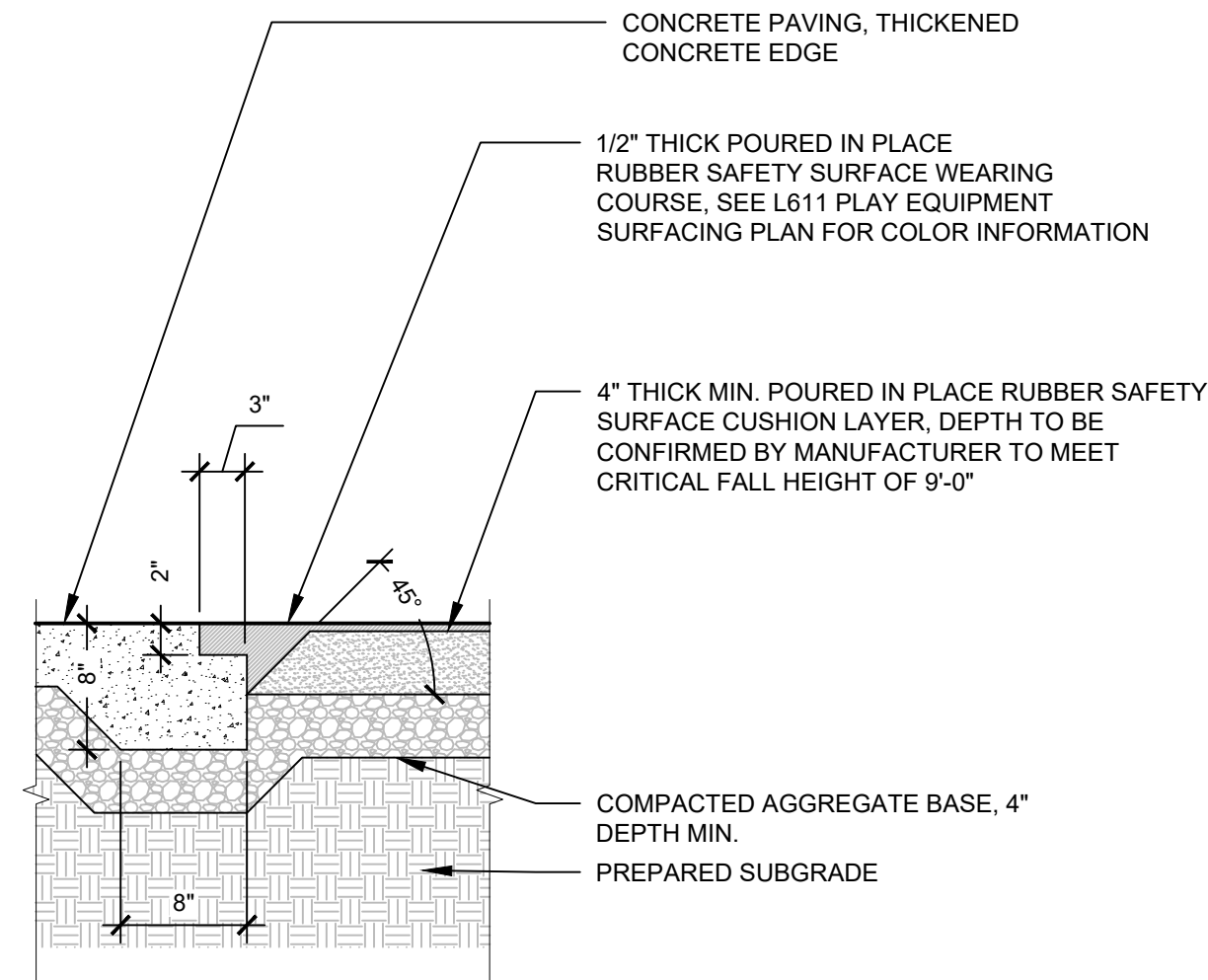
4 SMALL PLAY MOUND DETAIL
1/2"=1'-0"



3 EMBANKMENT SLIDE DETAIL
1/2"=1'-0"



2 POURED IN PLACE RUBBER AT PLANTING DETAIL
1"=1'-0"



1 POURED IN PLACE RUBBER AT CONCRETE PAVING DETAIL
1"=1'-0"

MEP:
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L851

WEST MILL CREEK AREAS E & G

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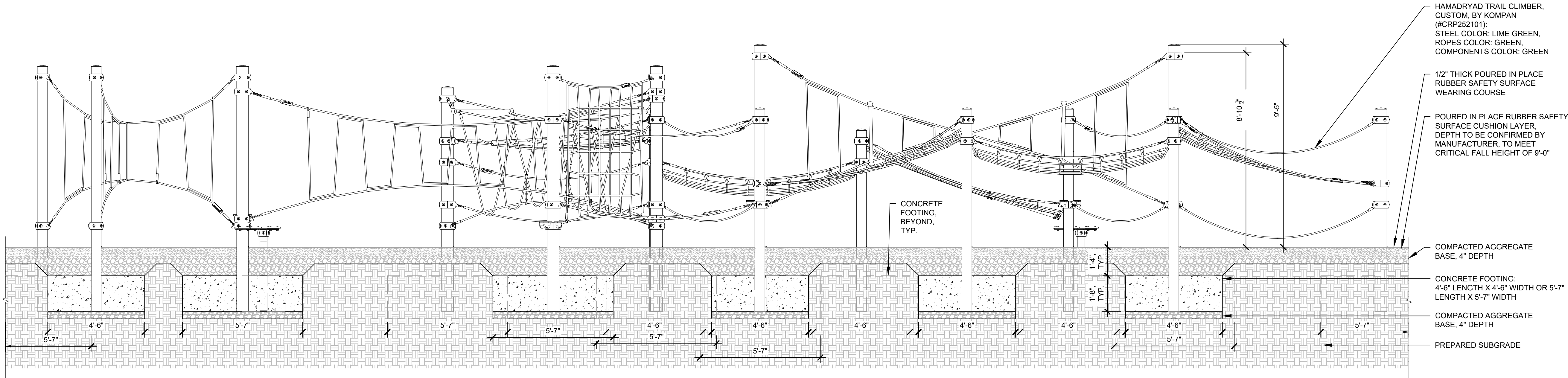
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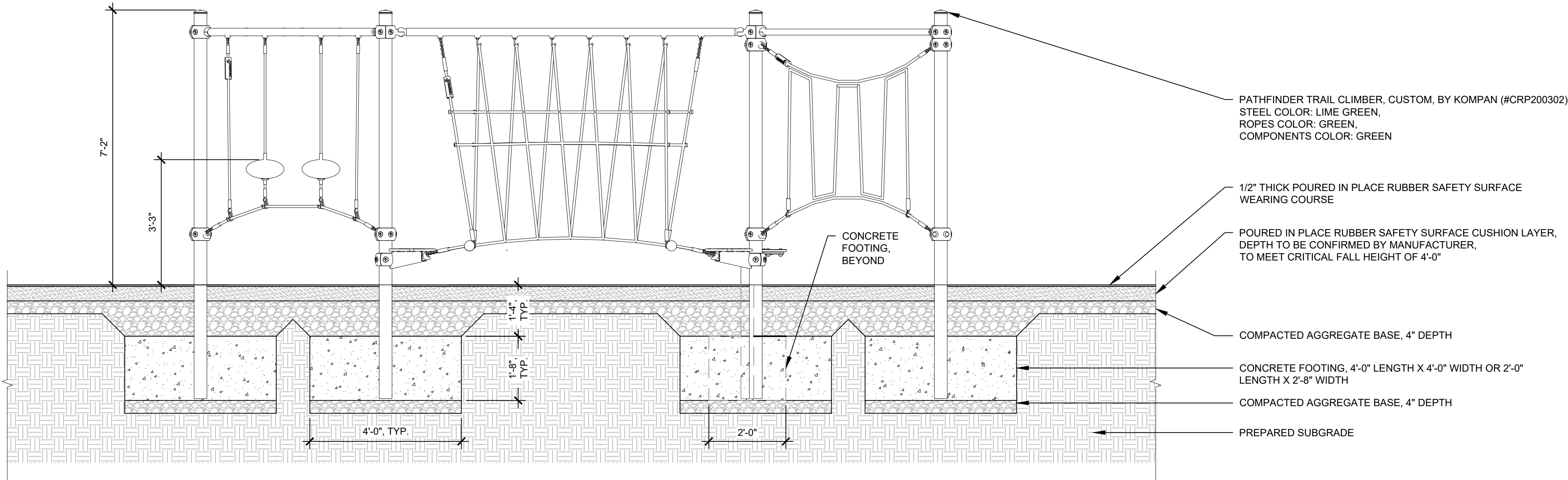
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2 HAMADRYAD TRAIL CLIMBER DETAIL
3/8"=1'-0"



1 PATHFINDER TRAIL CLIMBER DETAIL
1/2"=1'-0"

No.	Date	Description
1	7/31/2024	100% Schematic Design
2	10/25/2024	100% Design Development
3	5/09/2025	100% Construction Documents

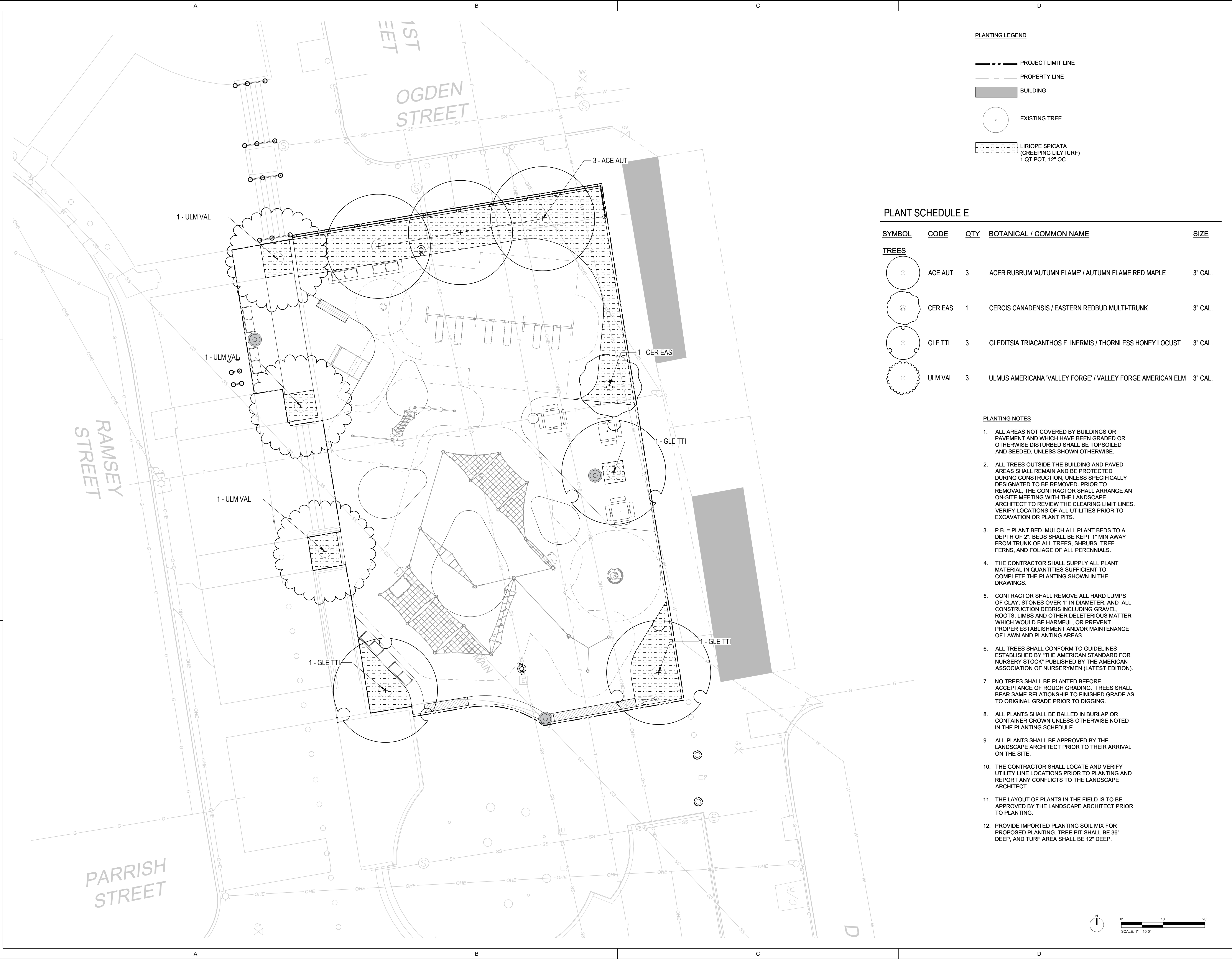


PLAY EQUIPMENT DETAILS

Scale: 1/2" = 1'-0"
Date: 2-21-2025
Drawn: TD
Checked: MT
Project No.: 2409

L852

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WEST MILL CREEK PLAYGROUND AREAS E & G

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No.	Date	Description
1	07/31/2024	SCHEMATIC DESIGN 100%
2	10/25/2024	DESIGN DEVELOPMENT 100%
3	05/09/2025	CONSTRUCTION DOCUMENTS 100%

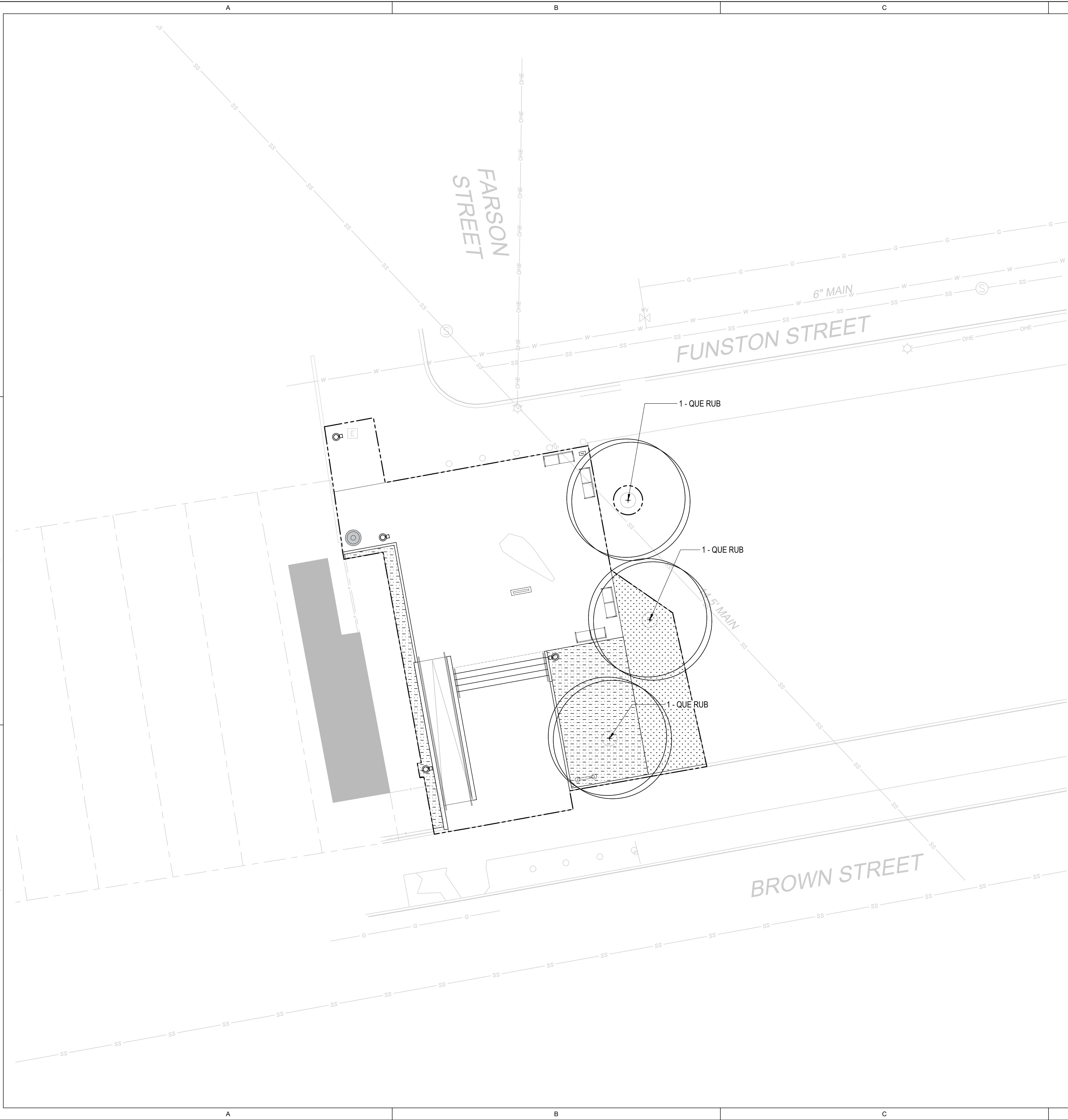


PLANTING PLAN AREA E

Scale: 1"=10'
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

L900

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PLANTING LEGEND

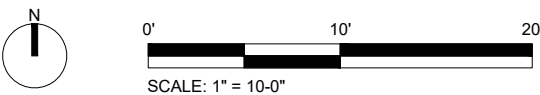
- PROJECT LIMIT LINE
- PROPERTY LINE
- BUILDING
- EXISTING TREE
- LIRIOPE SPICATA (CREEPING LILYTURF) 1 QT POT, 12" OC.
- TURF SOD

PLANT SCHEDULE G

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE
TREES				
	QUE RUB	3	QUERCUS RUBRA / NORTHERN RED OAK	3" CAL.

PLANTING NOTES

- ALL AREAS NOT COVERED BY BUILDINGS OR PAVEMENT AND WHICH HAVE BEEN GRADED OR OTHERWISE DISTURBED SHALL BE TOPSOILED AND SEEDED, UNLESS SHOWN OTHERWISE.
- ALL TREES OUTSIDE THE BUILDING AND PAVED AREAS SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION, UNLESS SPECIFICALLY DESIGNATED TO BE REMOVED. PRIOR TO REMOVAL, THE CONTRACTOR SHALL ARRANGE AN ON-SITE MEETING WITH THE LANDSCAPE ARCHITECT TO REVIEW THE CLEARING LIMIT LINES. VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO EXCAVATION OR PLANT PITS.
- P.B. = PLANT BED. MULCH ALL PLANT BEDS TO A DEPTH OF 2". BEDS SHALL BE KEPT 1" MIN AWAY FROM TRUNK OF ALL TREES, SHRUBS, TREE FERNS, AND FOLIAGE OF ALL PERENNIALS.
- THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN IN THE DRAWINGS.
- CONTRACTOR SHALL REMOVE ALL HARD LUMPS OF CLAY, STONES OVER 1" IN DIAMETER, AND ALL CONSTRUCTION DEBRIS INCLUDING GRAVEL, ROOTS, LIMBS AND OTHER DELETERIOUS MATTER WHICH WOULD BE HARMFUL, OR PREVENT PROPER ESTABLISHMENT AND/OR MAINTENANCE OF LAWN AND PLANTING AREAS.
- ALL TREES SHALL CONFORM TO GUIDELINES ESTABLISHED BY "THE AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN (LATEST EDITION).
- NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING. TREES SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS TO ORIGINAL GRADE PRIOR TO DIGGING.
- ALL PLANTS SHALL BE BALLED IN BURLAP OR CONTAINER GROWN UNLESS OTHERWISE NOTED IN THE PLANTING SCHEDULE.
- ALL PLANTS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THEIR ARRIVAL ON THE SITE.
- THE CONTRACTOR SHALL LOCATE AND VERIFY UTILITY LINE LOCATIONS PRIOR TO PLANTING AND REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- THE LAYOUT OF PLANTS IN THE FIELD IS TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- PROVIDE IMPORTED PLANTING SOIL MIX FOR PROPOSED PLANTING. TREE PIT SHALL BE 36" DEEP, AND TURF AREA SHALL BE 12" DEEP.



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3	05/09/2025	CONSTRUCTION DOCUMENTS 100%



PLANTING PLAN
AREA G

Scale: 1"=10'
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

L901

WEST MILL CREEK
PLAYGROUND
AREAS E & G

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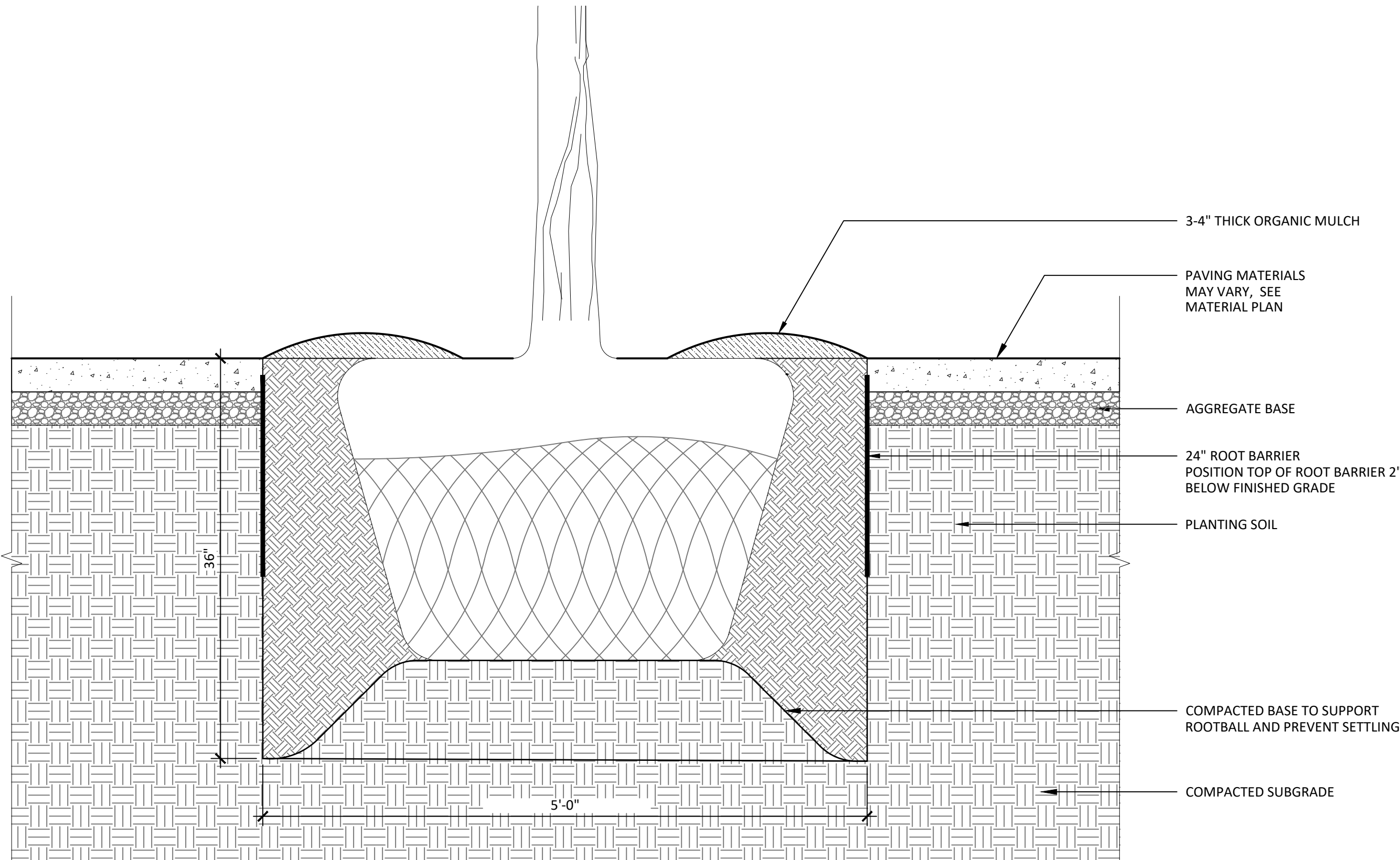
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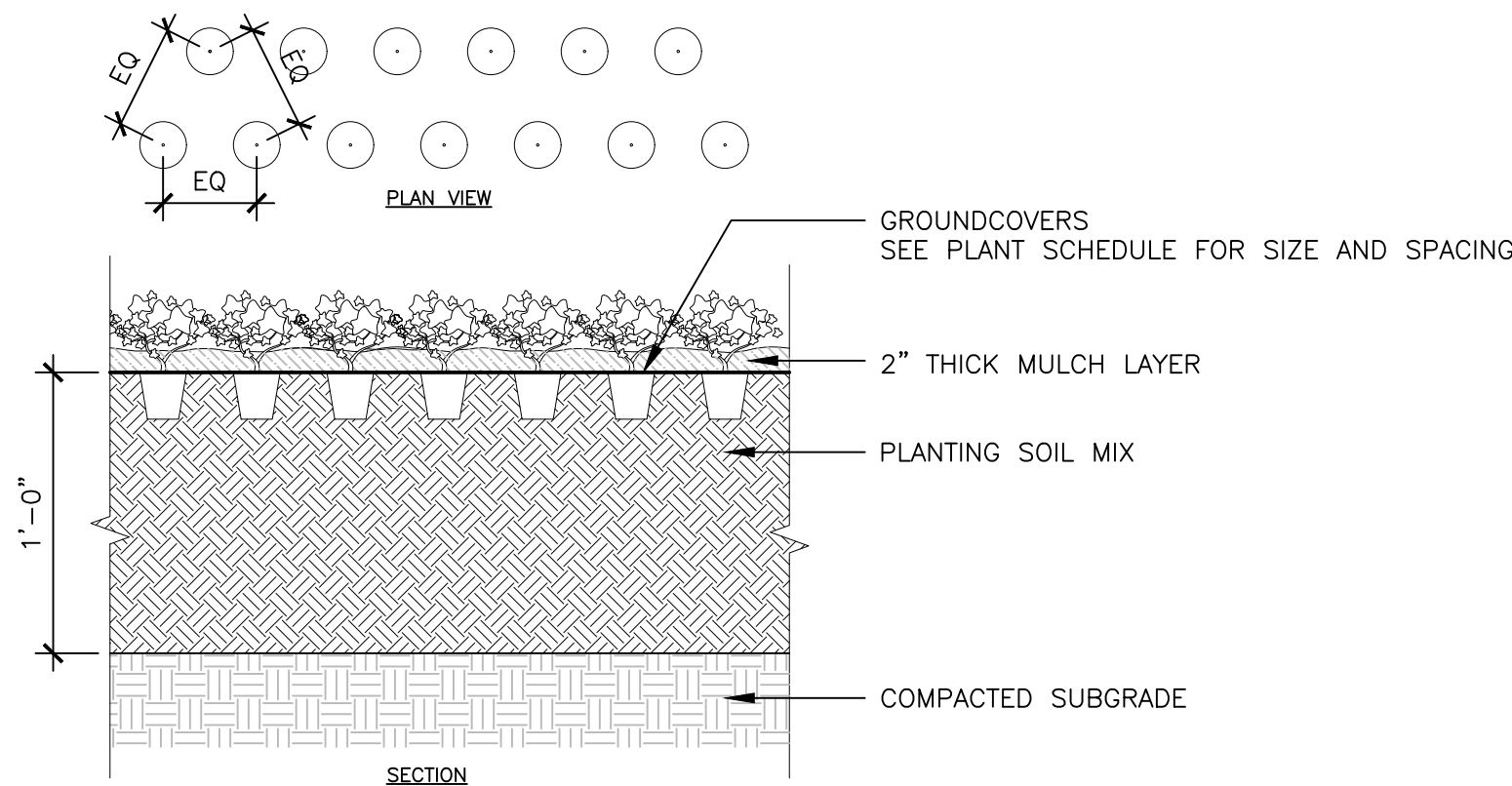
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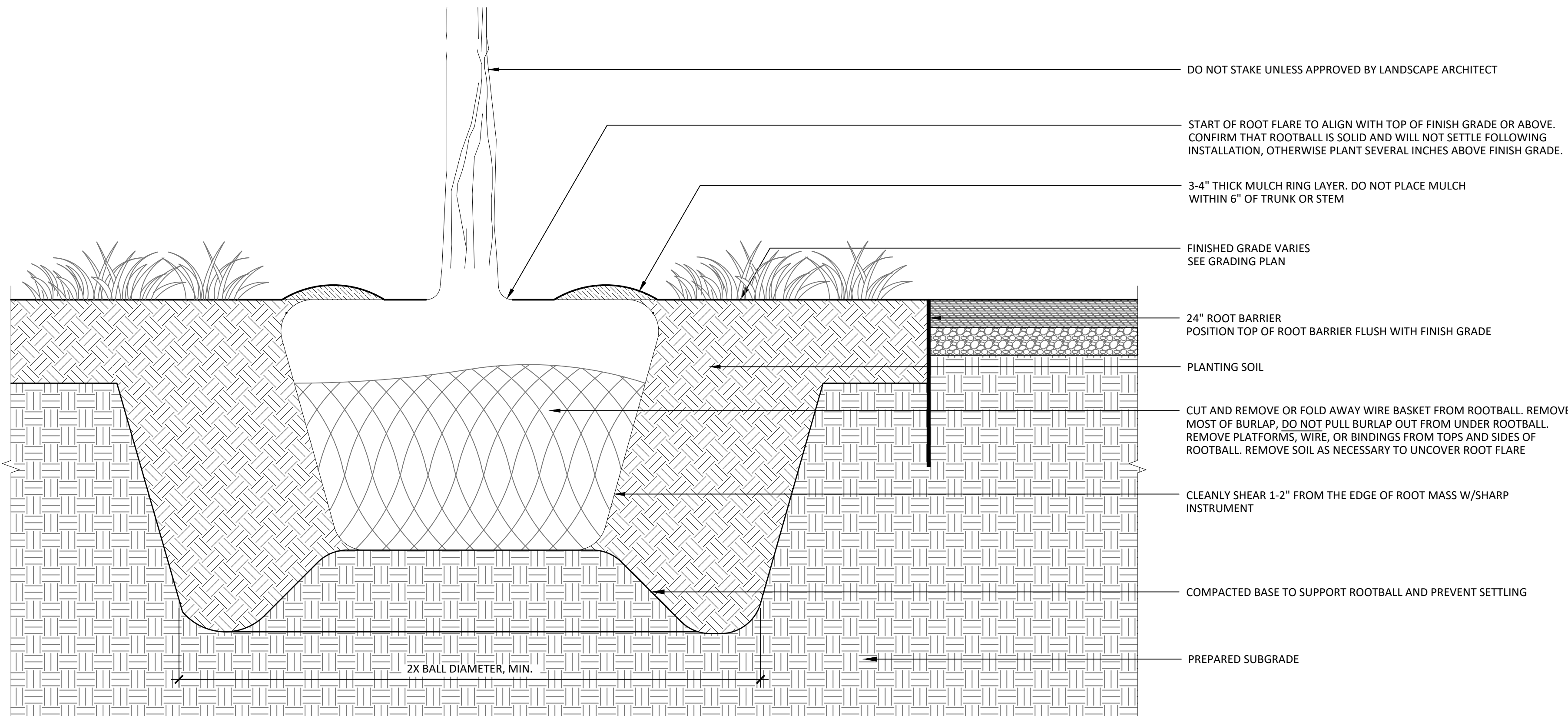
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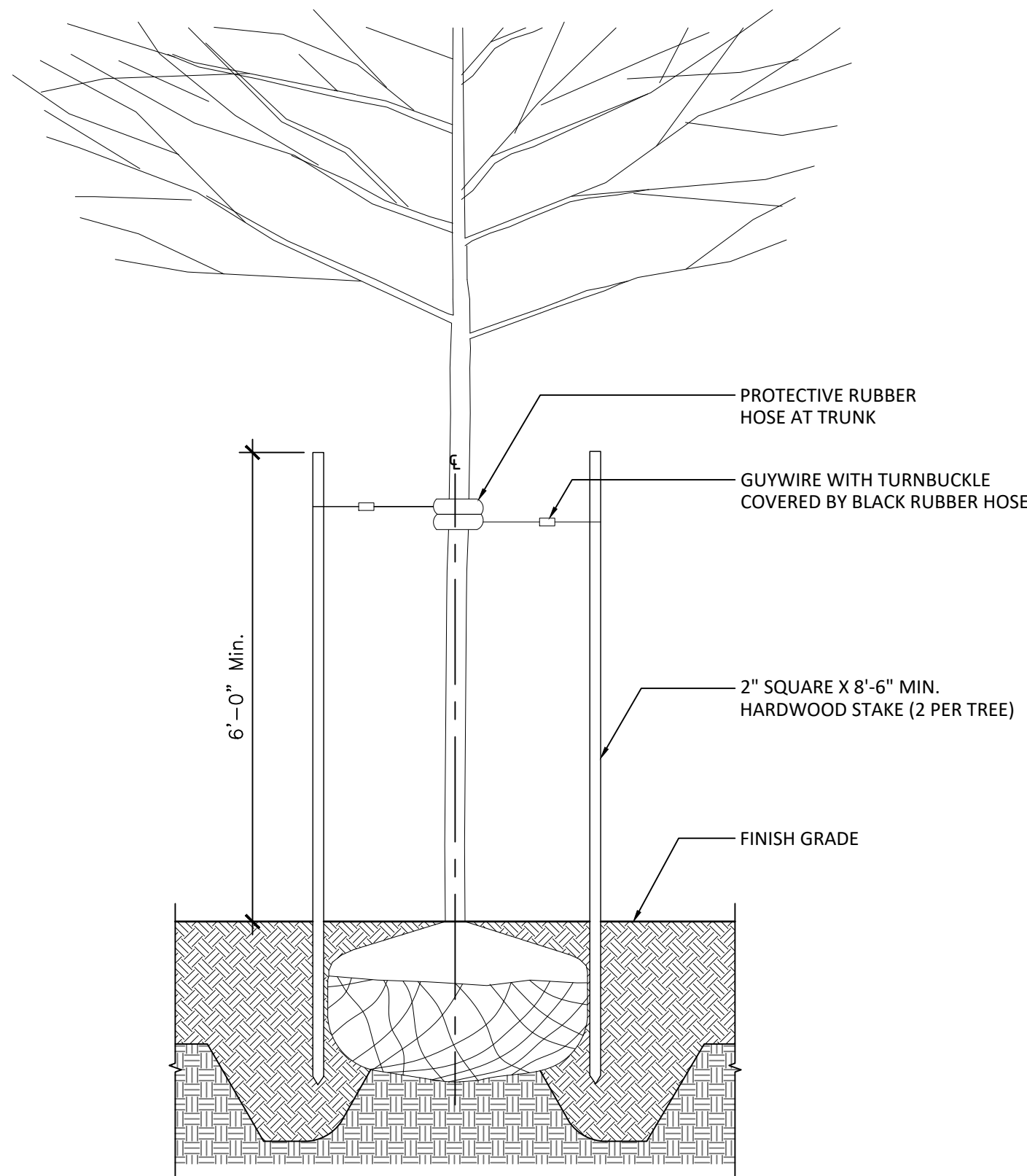
1 | TREE PIT
1" = 1'-0"



3 | GROUNDCOVER PLANTING
1" = 1'-0"



2 | TREE PLANTING
1" = 1'-0"



4 | TREE STAKING
1/2" = 1'-0"

No.	Date	Description
1	07/31/2024	SCHEMATIC DESIGN 100%
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3	05/09/2025	CONSTRUCTION DOCUMENTS 100%



DETAILS
PLANTING

Scale: NA
Date: 05/09/2025
Drawn: TS
Checked: TS
Project No.: 2409

L960

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2	11/14/2024	DESIGN DEVELOPMENT 100%
3	05/09/2025	CONSTRUCTION DOCUMENTS 100%

STRUCTURAL DEMOLITION PLAN
AREAS E & G

Scale: AS NOTED
Date: 05/09/2025
Drawn: HG
Checked: FB
Project No.: 2409

S100

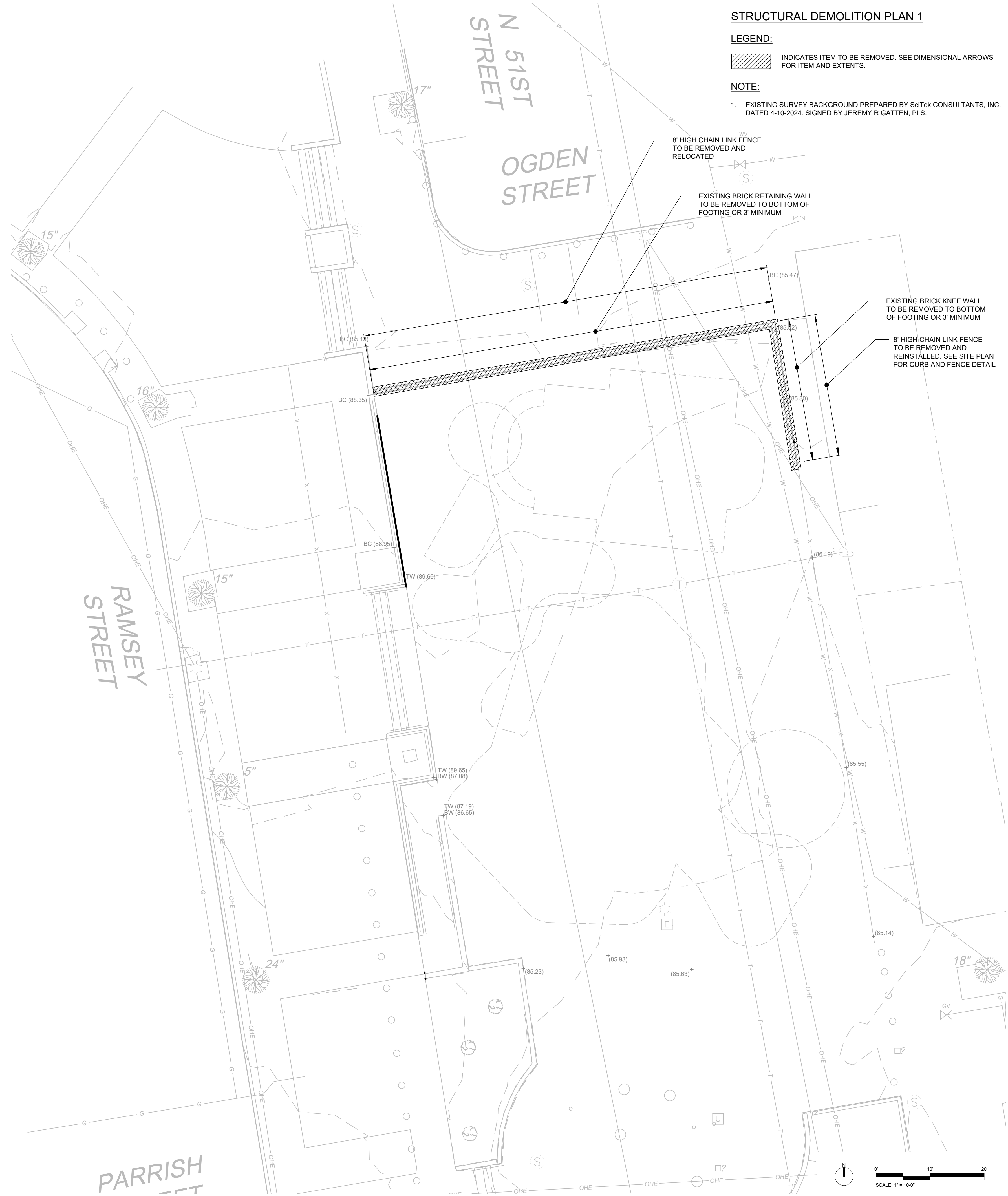
STRUCTURAL DEMOLITION PLAN 1

LEGEND:

INDICATES ITEM TO BE REMOVED. SEE DIMENSIONAL ARROWS FOR ITEM AND EXTENTS.

NOTE:

1. EXISTING SURVEY BACKGROUND PREPARED BY SciTek CONSULTANTS, INC. DATED 4-10-2024. SIGNED BY JEREMY R GATTEN, PLS.



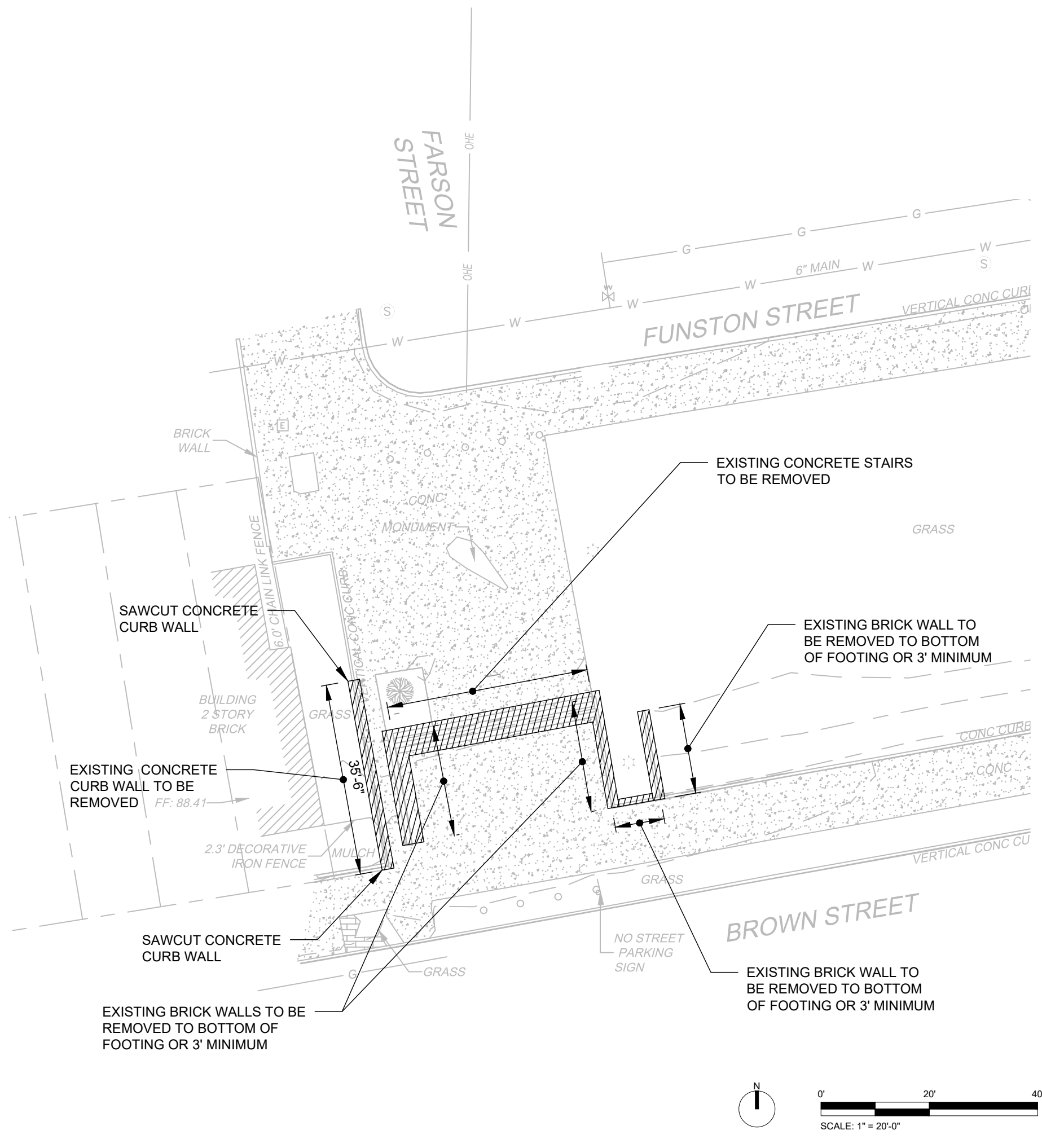
STRUCTURAL DEMOLITION PLAN 2

LEGEND:

INDICATES ITEMS TO BE REMOVED. SEE DIMENSIONAL ARROWS FOR ITEM AND EXTENTS.

NOTE:

1. EXISTING SURVEY BACKGROUND PREPARED BY SciTek CONSULTANTS, INC. DATED 4-10-2024. SIGNED BY JEREMY R GATTEN, PLS.



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No.	Date	Description
1	07/31/2024	SCHEMATIC DESIGN 100%
2	11/14/2024	DESIGN DEVELOPMENT 100%
3	05/09/2025	CONSTRUCTION DOCUMENTS 100%

STRUCTURAL PLAN
AREAS E & G

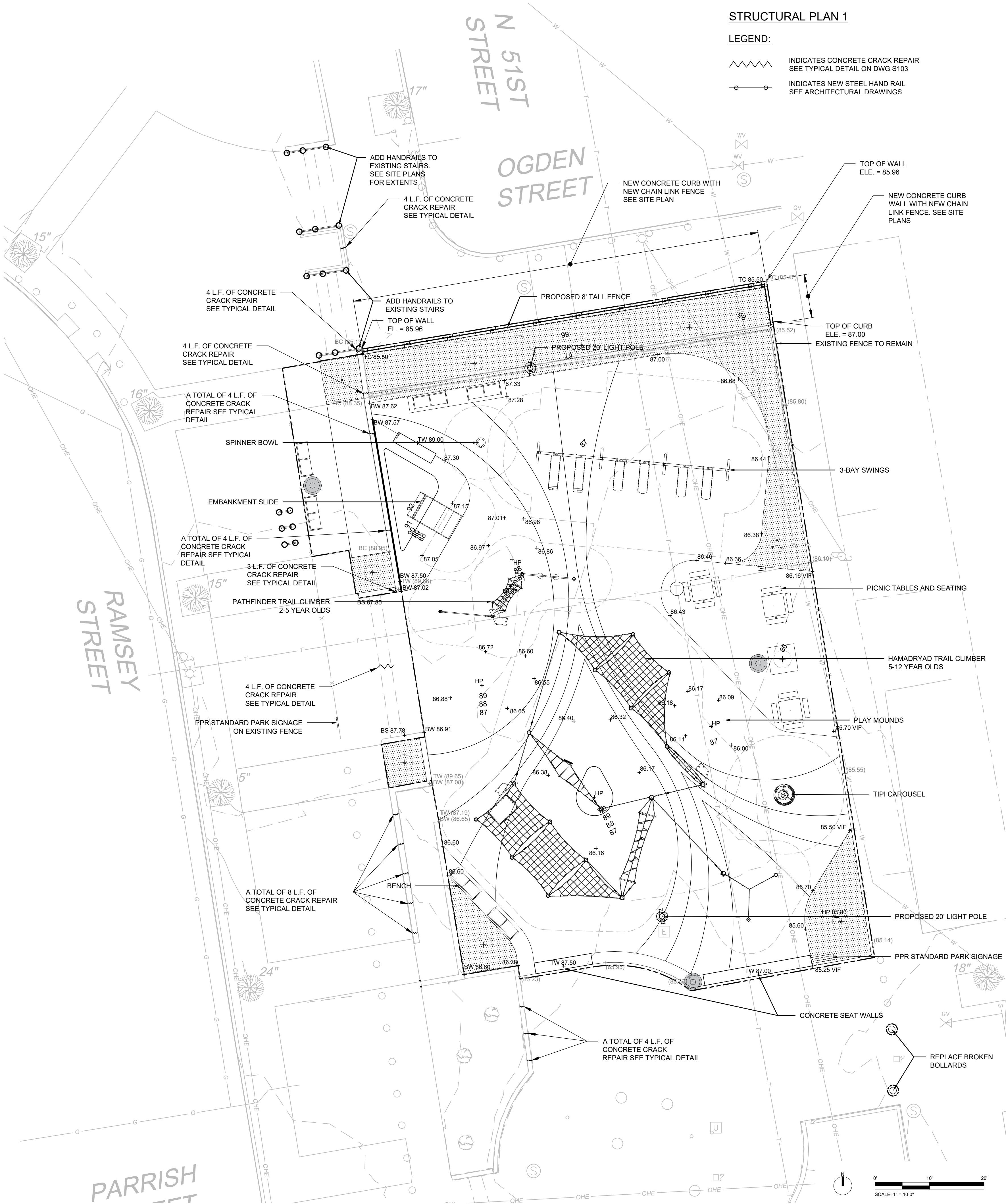
Scale: AS NOTED
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S101

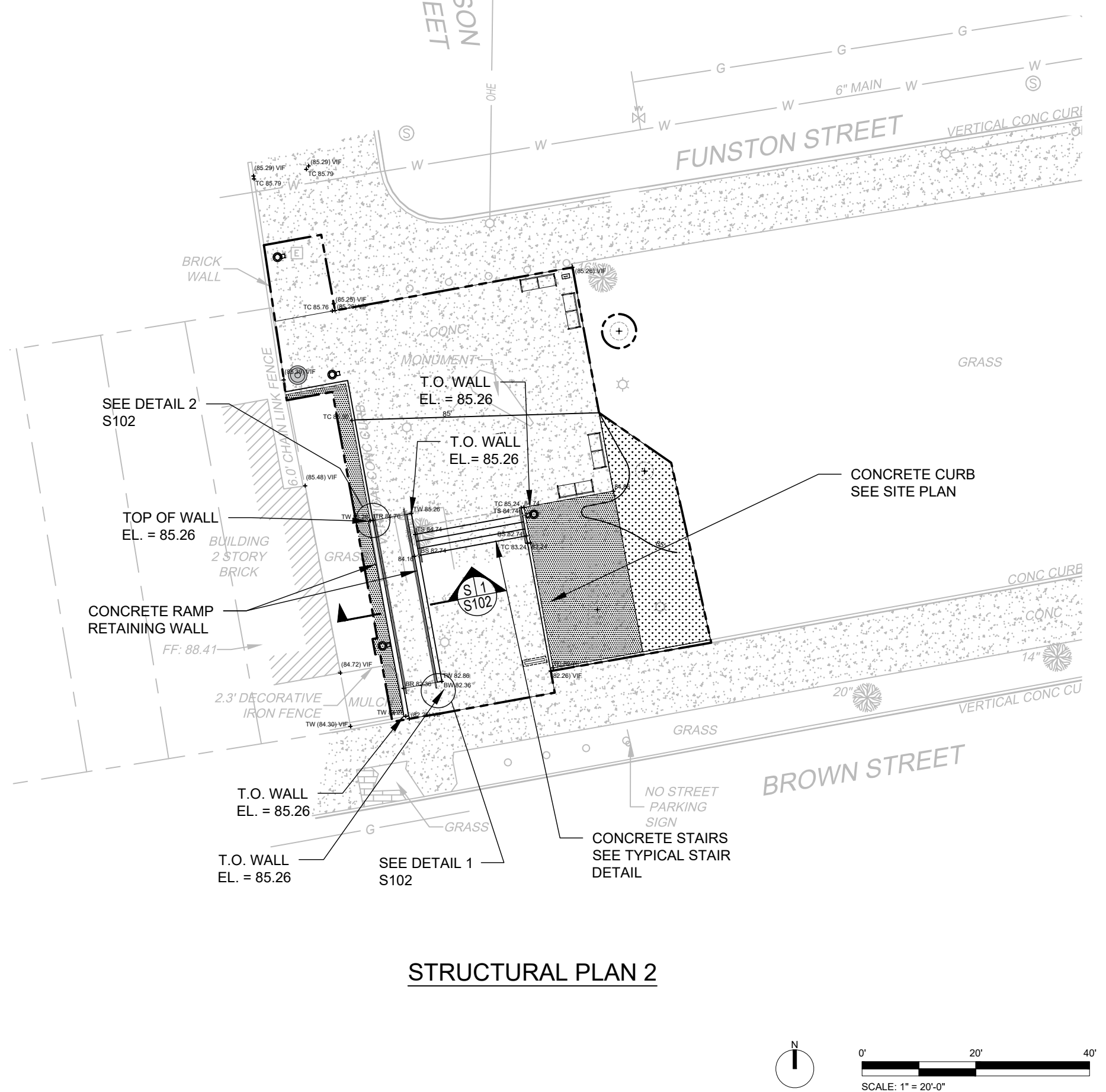
STRUCTURAL PLAN 1

LEGEND:

- INDICATES CONCRETE CRACK REPAIR
SEE TYPICAL DETAIL ON DWG S103
- INDICATES NEW STEEL HAND RAIL
SEE ARCHITECTURAL DRAWINGS



STRUCTURAL PLAN 2



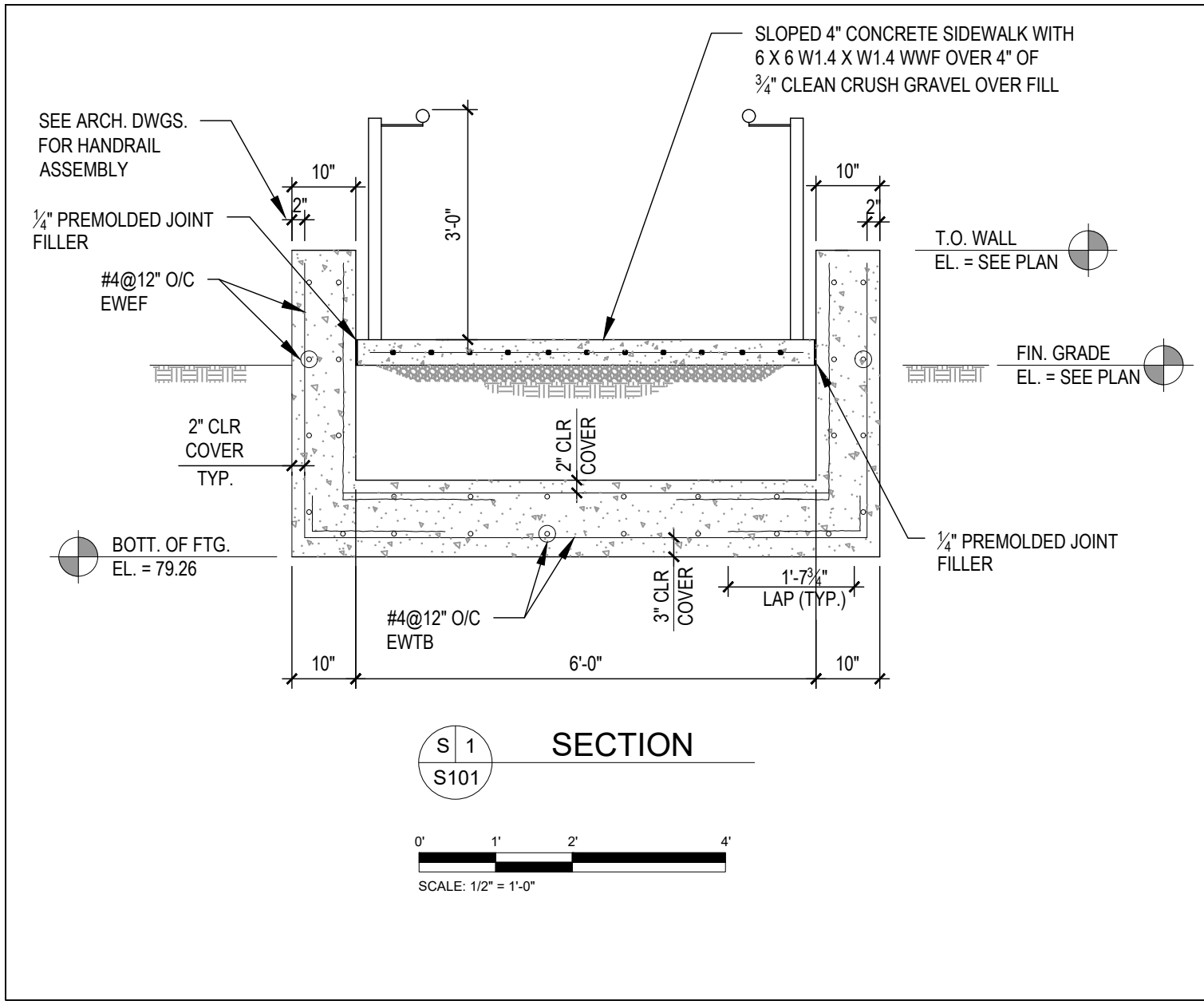
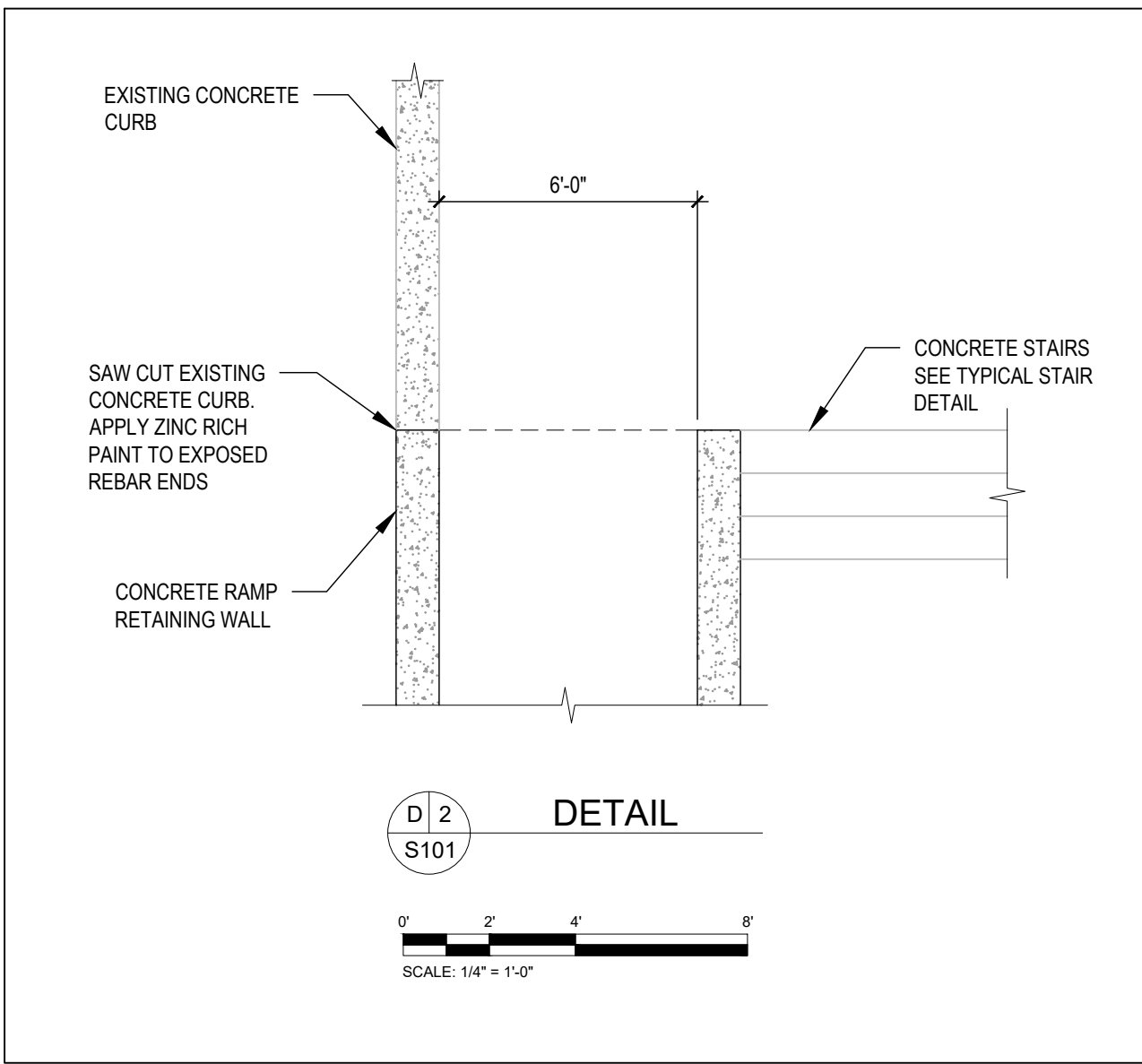
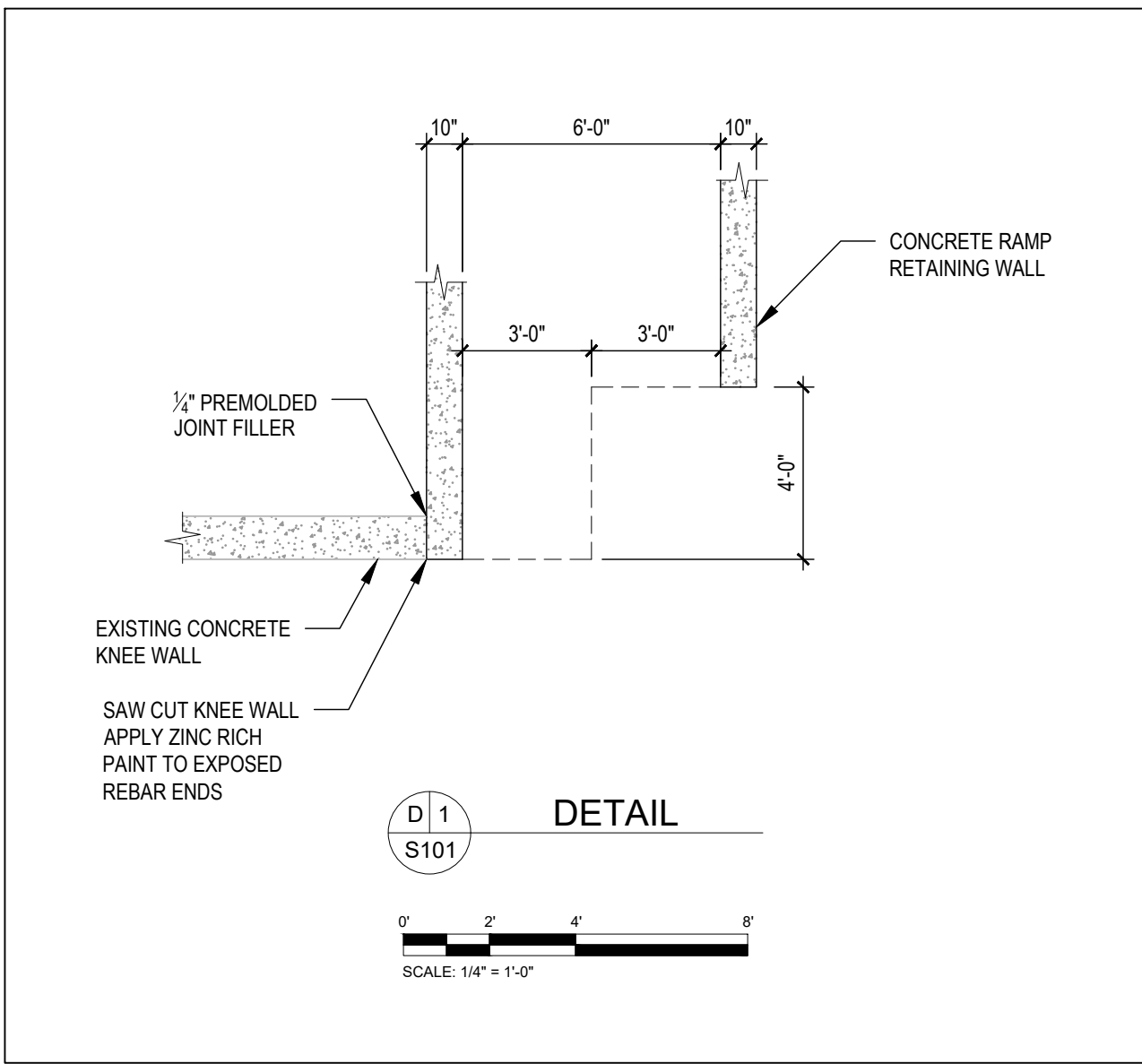
GENERAL NOTES

FOUNDATIONS

- 1. PERFORM ALL SITE PREPARATION AND EXCAVATION WORK IN STRICT ACCORDANCE WITH THE
 - A. SOILS REPORT PREPARED BY (N1, DATED NA2)
- 2. BOTTOM OF ALL FOOTINGS MUST BEAR ON SOIL CAPABLE OF SAFELY SUPPORTING 3000 PSF.
- 3. BOTTOM OF ALL FOOTINGS MUST BE INSPECTED AND APPROVED BY A LICENSE PROFESSIONAL ENGINEER BEFORE PLACING ANY CONCRETE. APPROVAL IN WRITING MUST INDICATE THAT THE SOILS ARE ADEQUATE TO SAFELY SUSTAIN THE SPECIFIED SOIL BEARING PRESSURE.
- 4. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF THREE FEET BELOW FINISH GRADE.
- 5. RETAINING WALLS.
 - SHALL AVE CONTRACTION JOINTS AT 30 FEET MAXIMUM ON CENTERS UNLESS NOTED OTHERWISE. WALLS WITH INTEGRAL COLUMN PIERS OR PILASTERS SHALL HAVE A FORMED CONTRACTION JOINT ON ONE SIDE OF EACH PIER ON THE EXPOSED FACE OF THE WALL. JOINTS SHALL BE FILLED WITH AN APPROVED SEALANT.

CONCRETE

- 6. ALL CONCRETE SHALL BE READY-MIX, AS FOLLOWS:
 - 6.1. HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS,
 - 6.2. SLUMP (AT POINT OF CONCRETE PLACEMENT) SHALL BE 3 INCH MINIMUM AND 6 INCH MAXIMUM,
 - 6.3. CONCRETE EXPOSED TO WEATHER SHALL HAVE 5 ½ PERCENT AIR ENTRAINMENT.
 - 6.4. SUBMIT MIX DESIGNS FOR REVIEW.
- 7. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE ACI BUILDING CODE (ACI 318), THE ACI DETAILING MANUAL (ACI 315), AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING (ACI 301).
- 8. ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 GRADE 60. WWF SHAL COMPLY WITH ASTM A185.
- 9. LAP ALL BARS MINIMUM 48 BAR DIAMETERS. LAP ALL WWF A MINIMUM OF 12 INCHES.



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STRUCTURAL DETAILS

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Project No.: 2409

S102

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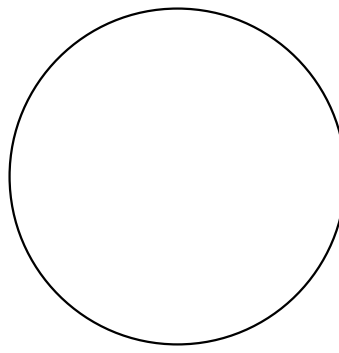
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RONALD E. HEIGLER, JR. PE
PA. LIC. PE-071002

ELECTRICAL COVER SHEET

Scale: AS NOTED
Date: 5/9/2025
Drawn: R.J.W.
Checked: R.E.H.
Project No.: 2409

EC100

ELECTRICAL DRAWING LIST	
EC100	ELECTRICAL COVER SHEET
ED100	ELECTRICAL DEMOLITION PLAN – SITE 'E'
ED101	ELECTRICAL DEMOLITION PLAN – SITE 'G'
E100	PARTIAL SITE 'E' NEW LIGHTING PLAN
E101	PARTIAL SITE 'E' NEW LIGHTING PLAN
E102	SITE 'G' NEW LIGHTING PLAN
E200	ELECTRICAL NOTES AND DETAILS
E201	ELECTRICAL NOTES AND DETAILS

GENERAL ELECTRICAL SYMBOLS

HANDHOLE

LIGHT POLE WITH ONE LIGHT

LIGHT POLE WITH 2 LIGHTS

UNDERGROUND CONDUIT/CONDUIT & WIRING

ELECTRICAL ABBREVIATIONS

AWG

AMERICAN WIRE GAUGE

E.C.

ELECTRICAL CONTRACTOR

G

GROUND

U.G.

UNDER GROUND

V.I.F.

VERIFY IN FIELD

WP

WEATHERPROOF

LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	MOUNTING	LAMPS		MANUFACTURER'S CATALOG NUMBER	LUMENS	INPUT WATTS	VOLTS	REMARKS
			QTY.	LAMP DESIGNATION					
A	NEW POLE MOUNTED SINGLE LIGHT FIXTURE ON 14' POLE	MOUNTING ARM	1	47W L.E.D.	SELUX #DSC4L-R2-S1-5G530-40-BK-UNV-TLRP WITH #AT535-156-14-BK-BC3 POLE	4854	47	UNV	POLE MOUNTED L.E.D. LIGHT FIXTURE WITH INTEGRAL PHOTOCCELL CONTROL. VERIFY FINISH SELECTION WITH ARCHITECT. INSTALL POLE ON NEW POLE BASE. SEE TYPICAL POLE BASE DETAIL.
B	NEW POLE MOUNTED SINGLE LIGHT FIXTURE ON 20' POLE	MOUNTING ARM	1	62W L.E.D.	SELUX #DSC4L-R4-S1-5G700-40-BK-UNV-TLRP WITH #AT64-156-20-BK-BC9 POLE	6296	62	UNV	POLE MOUNTED L.E.D. LIGHT FIXTURE WITH INTEGRAL PHOTOCCELL CONTROL. VERIFY FINISH SELECTION WITH ARCHITECT. INSTALL POLE ON NEW POLE BASE. SEE TYPICAL POLE BASE DETAIL.
C	NEW POLE MOUNTED DOUBLE LIGHT FIXTURE ON 20' POLE	MOUNTING ARM	2	62W L.E.D.	SELUX #DSC4L-R4-S2-5G700-40-BK-UNV-TLRP WITH #AT64-156-20-BK-BC9 POLE	2@ 6296	124	UNV	POLE MOUNTED L.E.D. DOUBLE LIGHT FIXTURE WITH INTEGRAL PHOTOCCELL CONTROL. VERIFY FINISH SELECTION WITH ARCHITECT. INSTALL POLE ON NEW POLE BASE. SEE TYPICAL POLE BASE DETAIL.

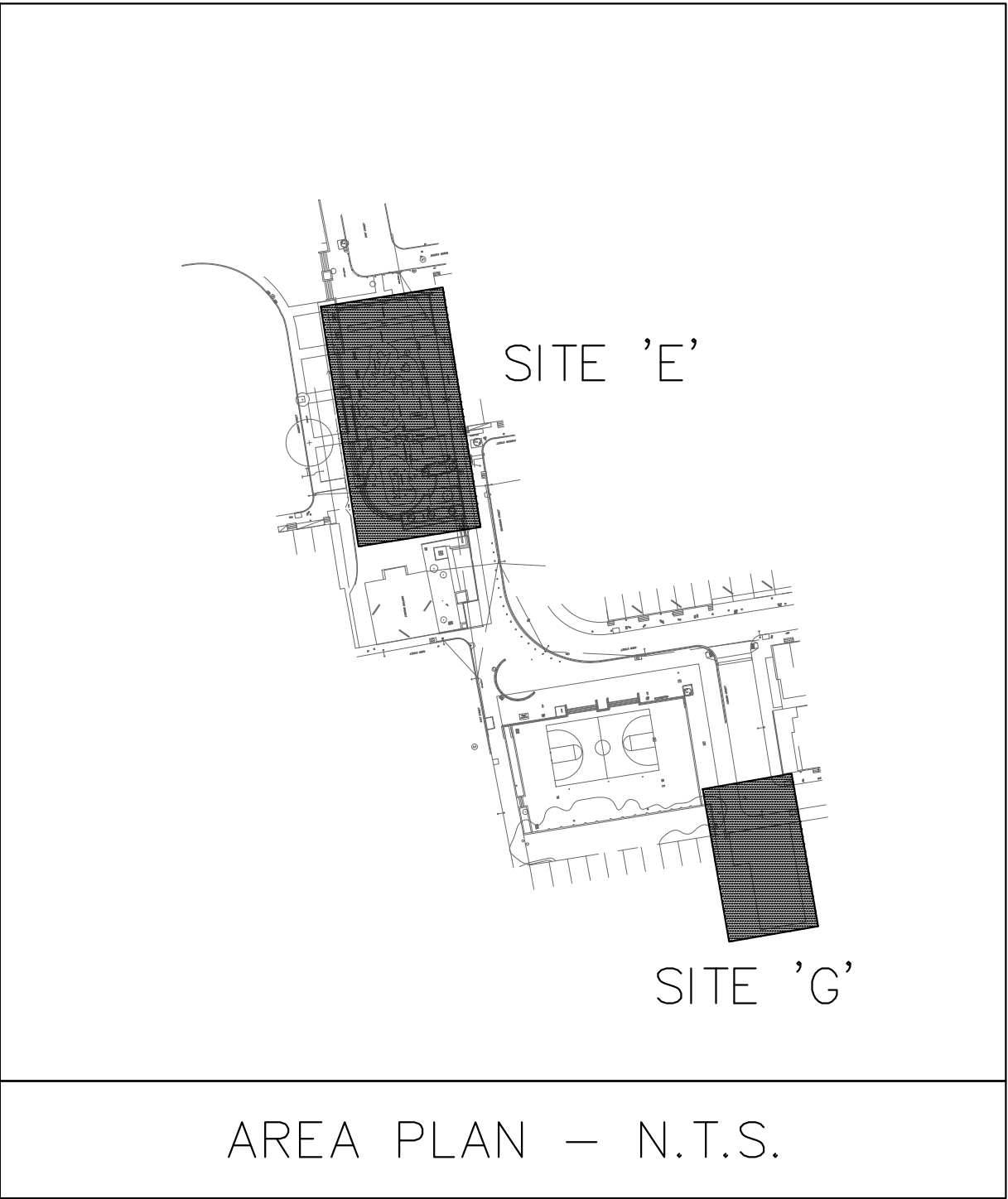
GENERAL NOTES FOR LIGHTING FIXTURE SCHEDULE:

- ALL LIGHT FIXTURES SHALL BE AS SCHEDULED ABOVE AND SHALL BE PROVIDED, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- VERIFY ALL FIXTURE WIRING REQUIREMENTS PRIOR TO INSTALLING FIXTURES AND WIRE.
- VERIFY ALL LIGHT FIXTURE SELECTIONS AND FINISH COLORS WITH ARCHITECT.
- PROVIDE WITH INTEGRAL PHOTOCCELL CONTROL.
- PROVIDE ALL FIXTURES COMPLETE WITH LAMPS.
- PROVIDE ALL L.E.D. FIXTURE WITH COMPATIBLE DRIVERS. PROVIDE COMPATIBLE DIMMING DRIVER WHERE FIXTURES ARE CONTROLLED VIA DIMMING SWITCH.
- REFER TO ARCHITECTURAL DRAWINGS FOR PRECISE LOCATIONS OF LIGHT FIXTURES.

GENERAL REQUIREMENTS FOR ELECTRICAL WORK

- CONTRACTOR SHALL PROVIDE LABOR, MATERIAL, EQUIPMENT AND SERVICES FOR THE PROPER INSTALLATION AND OPERATION OF THE ELECTRICAL WORK AS INDICATED ON THE DRAWINGS AND AS SPECIFIED.
- LABOR, MATERIAL, EQUIPMENT AND SERVICE OBVIOUSLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF ELECTRICAL SYSTEMS, ALTHOUGH NOT SPECIFICALLY MENTIONED OR SHOWN, SHALL BE PROVIDED.
- ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE NATIONAL ELECTRIC CODE AND APPLICABLE LAWS, CODES AND REGULATIONS OF MUNICIPAL, COUNTY, STATE, FEDERAL AUTHORITIES, UTILITY COMPANIES, INSURANCE AGENCIES AND OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- CONTRACTOR AND ALL EMPLOYEES SHALL FAMILIARIZE THEMSELVES WITH OWNERS, STATE, LOCAL AND FEDERAL CONSTRUCTION SAFETY GUIDELINES PRIOR TO THE COMMENCEMENT OF WORK.
- OBTAIN, PAY FOR AND DELIVER PERMITS AND CERTIFICATES OF INSPECTION AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. DELIVER CERTIFICATES TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK. AN ELECTRICAL INSPECTION CERTIFICATE, FOR EACH CLASS OF WORK REQUIRING INSPECTION, MUST BE SUBMITTED PRIOR TO OR WITH THE FINAL PAYMENT INVOICE. CONTRACTOR MUST MAKE APPLICATION FOR THE INSPECTION, COORDINATE SAME, AND PAY THE REQUIRED INSPECTION FEE.
- BEFORE SUBMITTING HIS BID, TRADE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD. FAILURE TO DO SO SHALL NOT RELIEVE TRADE CONTRACTOR OF HIS OBLIGATION TO PAY FOR COSTS THAT MAY BE INCURRED DUE TO CONDITIONS THAT MAY AFFECT THE COST OF INSTALLING HIS WORK.
- DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. HOWEVER, CERTAIN RACEWAYS, BENDS, FITTINGS, BOXES, SYSTEM COMPONENTS, APPURTENANCES AND RELATED SPECIALTIES ARE NOT SHOWN, BUT SHALL BE PROVIDED TO INSURE A COMPLETE INSTALLATION.
- CONSULT THE DRAWINGS FOR EXACT LOCATION OF FIXTURES AND EQUIPMENT. WHERE SAME ARE NOT DEFINITELY LOCATED, OBTAIN THIS INFORMATION FROM THE ARCHITECT/ENGINEER.
- INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED OR SHOWN, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK, THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN REVIEW.
- NO CONSIDERATION OR ALLOWANCE SHALL BE GRANTED FOR ALLEGED MISUNDERSTANDING OF MATERIALS AND EQUIPMENT TO BE FURNISHED FOR WORK TO BE ACCOMPLISHED.
- WORK FURNISHED UNDER THE CONTRACT SHALL BE WARRANTED AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR, OR AS OTHERWISE SPECIFIED, FROM THE DATE OF FINAL ACCEPTANCE.
- MATERIAL AND EQUIPMENT IN THE WORK SHALL BE NEW, FIRST GRADE, FIRST CLASS, THE BEST OF THEIR RESPECTIVE KINDS, APPROPRIATE FOR THE APPLICATION AND ENVIRONMENT.
- EQUIPMENT OR APPARATUS FOR ANY ONE SYSTEM SHALL BE THE PRODUCT OF ONE MANUFACTURER. THE TERM "MANUFACTURER" SHALL BE UNDERSTOOD AS APPLYING TO A COMPANY OF ESTABLISHED REPUTATION IN THE MANUFACTURE OF A PARTICULAR PIECE OF EQUIPMENT OR APPARATUS FROM PRODUCTS OF HIS OWN MAKE OR OTHERS, AND WHO ASSUMES FULL RESPONSIBILITY FOR PRODUCTS USED IN SUCH EQUIPMENT OR APPARATUS. THE MANUFACTURER MUST SUBMIT EVIDENCE OF FIVE (5) YEARS OR MORE MANUFACTURING EXPERIENCE IN THE PRODUCTION OF THESE PRODUCTS.
- MATERIAL OR EQUIPMENT SPECIFIED BY MANUFACTURER, BRAND NAME, TYPE, OR CATALOG NUMBER ARE DESIGNED TO ESTABLISH STANDARDS OF DESIRED QUALITY, STYLE, PERFORMANCE, ELECTRICAL, MECHANICAL AND PHYSICAL CHARACTERISTICS, AND DIMENSIONS.
- WHERE CABLE PASSES THROUGH FIRE RATED STRUCTURES PROVIDE FIREPROOF FITTINGS.
- RACEWAYS SHALL BE CONCEALED IN THE CONSTRUCTION EXCEPT AS OTHERWISE SPECIFIED OR SHOWN.
- WHERE CONDUIT TERMINATES IN A CABINET, BOX OR AUXILIARY GUTTER, THE CONDUCTORS SHALL BE PROTECTED BY AN INSULATING BUSHING. LOCKNUTS SHALL BE PROVIDED BOTH INSIDE AND OUTSIDE THE ENCLOSURE, WEATHERPROOF WHERE REQUIRED.
- A PULL WIRE SHALL BE INSTALLED IN EMPTY RACEWAYS. PULL WIRE SHALL BE 200 POUND TEST NYLON. BOTH ENDS SHALL BE IDENTIFIED BY MEANS OF LABELS OR TAGS, READING "PULL WIRE" AND GIVING THE ORIGINATION AND TERMINATION POINTS.
- GENERALLY, WIRING (OTHER THAN EMERGENCY) SHALL BE DONE WITH INSULATED COPPER CONDUCTORS IN CONTINUOUSLY GROUNDED METAL CONDUIT (EMT). CONDUCTORS AND RACEWAYS SHALL BE FIRST GRADE, INSTALLED CONCEALED IN THE CONSTRUCTION EXCEPT IN MECHANICAL OR ELECTRICAL SPACES, OPEN CONSTRUCTION AREAS OR WHERE SHOWN ON THE DRAWINGS.
- LINE VOLTAGE AND LOW VOLTAGE WIRING SHALL BE RUN IN SEPARATE RACEWAYS.
- EMERGENCY WIRING SHALL BE DONE WITH INSULATED COPPER CONDUCTORS IN CONTINUOUSLY GROUNDED METAL CONDUIT (EMT), SEPARATE FROM ALL OTHER WIRING AND RACEWAYS. CONDUCTORS AND RACEWAYS SHALL BE FIRST GRADE, INSTALLED CONCEALED IN THE CONSTRUCTION EXCEPT IN MECHANICAL OR ELECTRICAL SPACES, OPEN CONSTRUCTION AREAS OR WHERE SHOWN ON THE DRAWINGS.
- RACEWAYS SHALL BE SUPPORTED TO COMPLY WITH NEC.
- NO "THROUGH-WALL" BOXES SHALL BE PERMITTED. WHERE DRAWINGS INDICATE BOXES BACK-TO-BACK, OR SIMILAR LOCATIONS, SUCH BOXES SHALL BE INSTALLED SEPARATELY, SPACED MINIMUM SIX INCHES APART HORIZONTALLY.
- FOR CONDUITS OR CABLES THAT PENETRATE FIRE RATED WALLS, FLOORS, PARTITIONS, OR SLABS, FILL AND SEAL SPACES BETWEEN THE CONDUITS OR CABLES AND THE SLEEVE WITH 2-PART INTUMESCENT FOAM SEALANT CREATING A FIRE STOP EQUAL TO OR EXCEEDING FIRE RATING OF CONSTRUCTION MATERIAL BEING PENETRATED. FIRE SEALANT SHALL PREVENT SPREAD OF FLAME, SMOKE, AIR AND WATER THROUGH THE SLEEVE AND SHALL PASS 3 HOUR TEST PER ASTM E814 AND UL 1479. FIRE SEALANT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ALL CONDUITS AND FLEXIBLE METAL CONDUIT SHALL CONTAIN A GROUNDING CONDUCTOR. CONDUITS ARE NOT TO BE USED AS A GROUNDING CONDUCTOR.
- ALL BRANCH CIRCUIT WIRING SUPPLYING NEW RECEPTACLES AND LIGHTING BEING INSTALLED SHALL BE #12 COPPER CONDUCTORS MINIMUM.
- CONTRACTOR SHALL SUPPLY AND INSTALL ADDITIONAL BRANCH CIRCUITS (BREAKERS, RACEWAYS, WIRING, ETC..) AS REQUIRED TO COMPLETE THE PROJECT.
- JUNCTION BOX AND HANDHOLE LOCATIONS SHOWN ON PLANS ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL DETERMINE FINAL LOCATIONS OF ALL JUNCTION BOXES AND HANDHOLES. ALL JUNCTION BOXES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION AND LABELED WITH SOURCE AND SOURCE VOLTAGE. JUNCTION BOXES CONTAINING EMERGENCY WIRING SHALL HAVE RED COVERS AND LABELED AS ABOVE.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED TO COMPLY WITH OSHA AND ANSI/ASME A13.1-2007 STANDARDS FOR THE IDENTIFICATION OF SYSTEMS. THE MARKINGS MUST IDENTIFY THE EQUIPMENT, IT'S ORIGIN AND VOLTAGE OF THE CONTENTS. ALL EQUIPMENT SHALL BE IDENTIFIED USING PHENOLIC NAMEPLATES AND LABELED IN ACCORDANCE WITH THE NOMENCLATURE USED ON THE DRAWINGS AND MUST BE COMPATIBLE WITH THE MIMS SYSTEM.
- CONTRACTOR SHALL PROVIDE TO OWNER A DETAILED AS-BUILT DRAWING OF THE WORK PERFORMED. THIS PLAN SHALL INDICATE THE BRANCH CIRCUITS SUPPLYING EACH LIGHT AND DEVICE ASSOCIATED WITH THE WORK PERFORMED ON THIS PROJECT.

ALSO SEE BOOK SPEC



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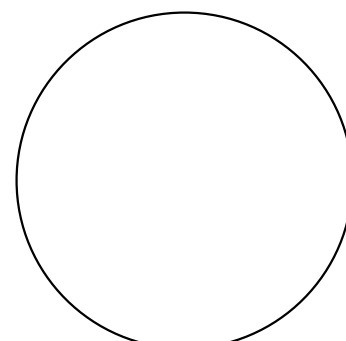
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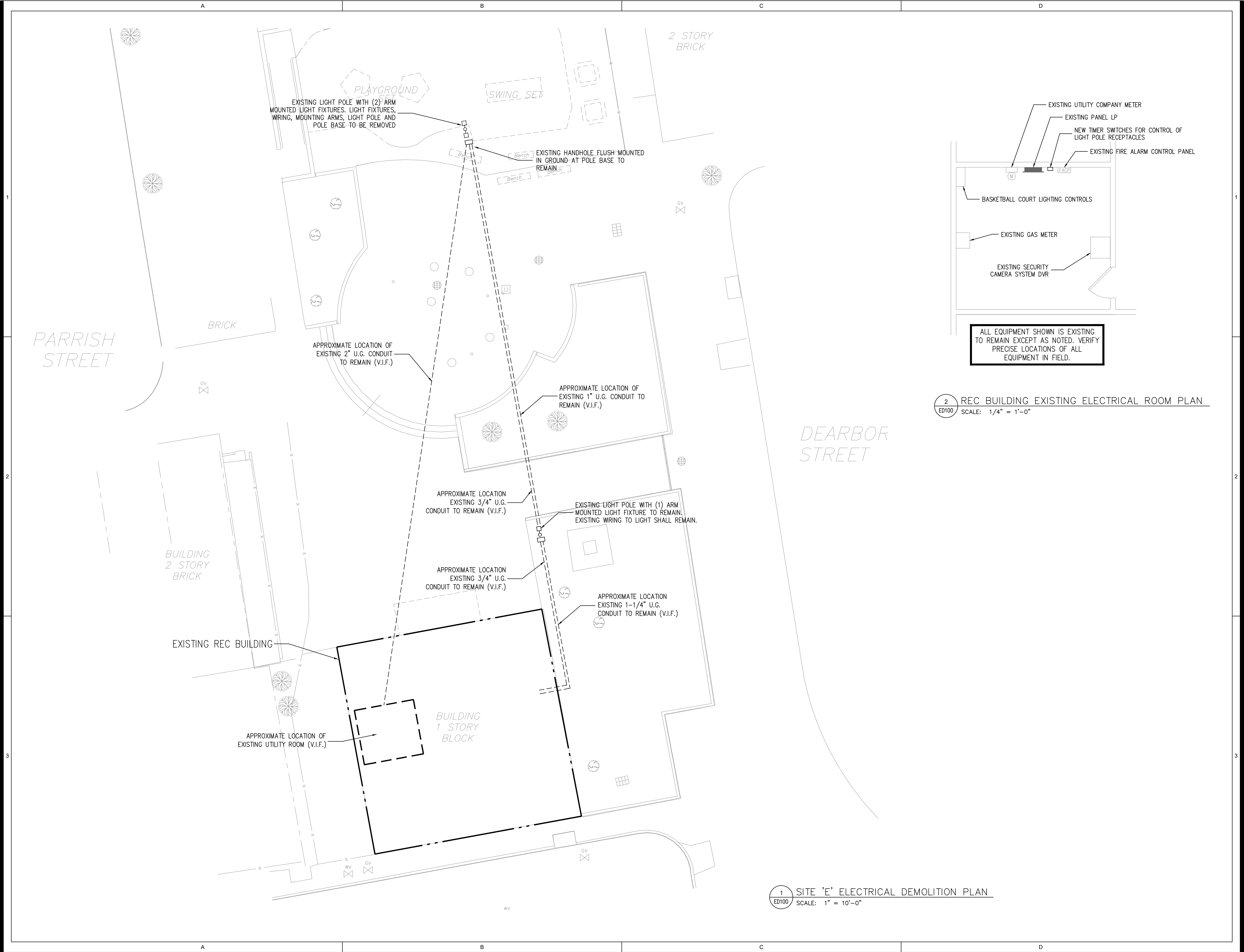


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ELECTRICAL DEMOLITION
PLAN - SITE 'E'

Scale: AS NOTED
Date: 5/9/2025
Drawn: R.J.W.
Checked: R.E.H.
Project No.: 2409

ED100



2 REC BUILDING EXISTING ELECTRICAL ROOM PLAN
ED100 SCALE: 1/4" = 1'-0"

1 SITE 'E' ELECTRICAL DEMOLITION PLAN
ED100 SCALE: 1" = 10'-0"

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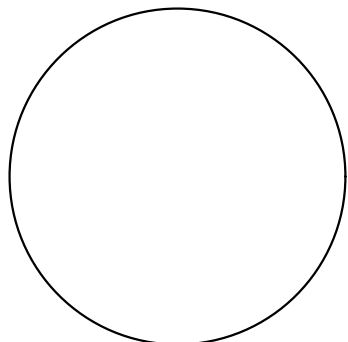
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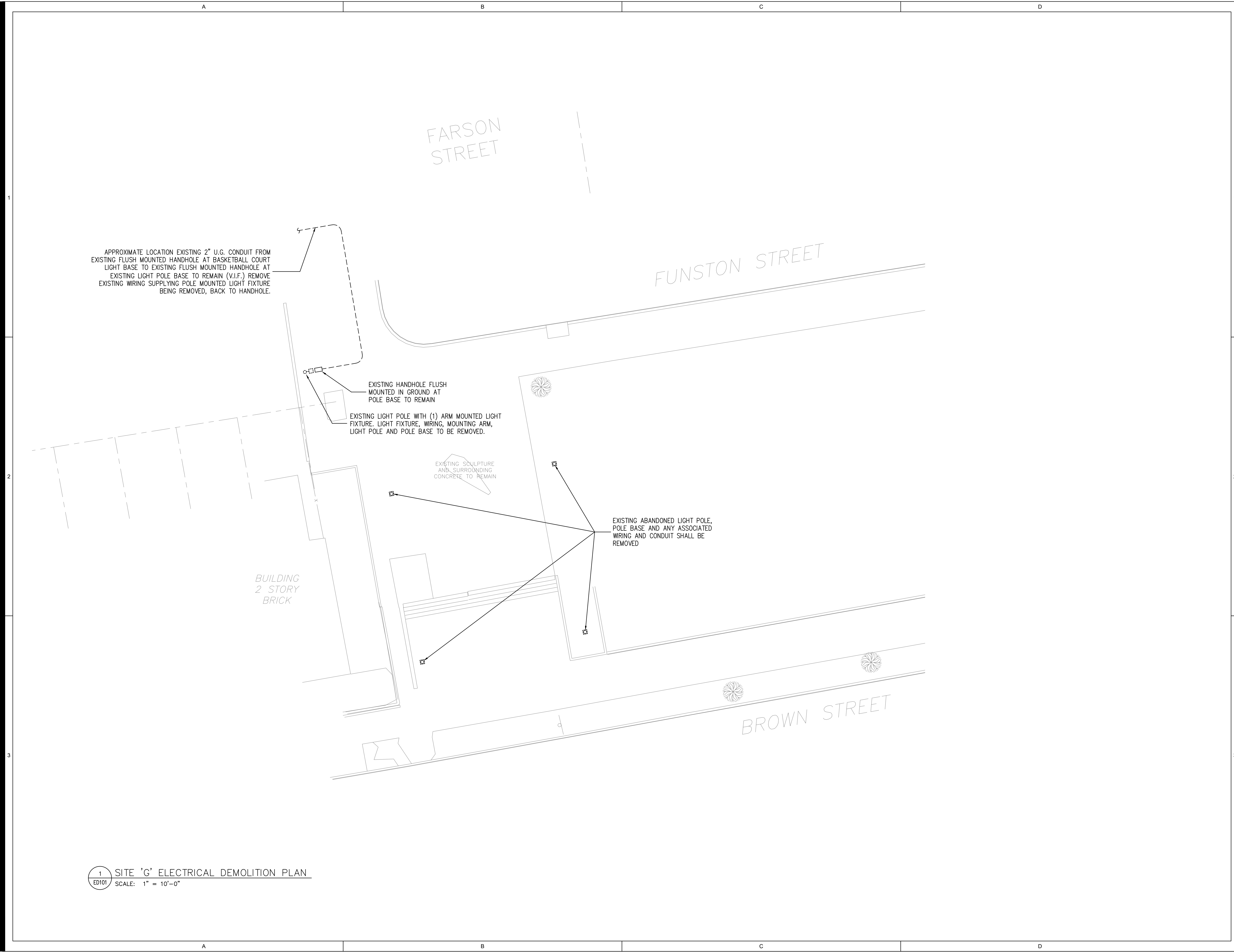


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ELECTRICAL DEMOLITION
PLAN - SITE 'G'

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ED101



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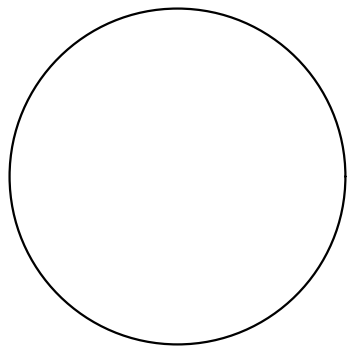
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RONALD E. HEIGLER, JR., PE
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PARTIAL SITE 'E' NEW
LIGHTING PLAN

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Drawn: R.J.W.
Checked: R.E.H.
Project No.: 2409

E100

SEE SHEET E101
MATCHLINE

SEE SHEET E101
MATCHLINE

NEW GFCI RECEPTACLE INSTALLED IN NEW LIGHT
POLE. INSTALL RECEPTACLE OPPOSITE TO POLE
HANDHOLE. SEE TYPICAL POLE BASE-DETAIL NOTE
#7. (TYPICAL FOR ALL LIGHT POLE RECEPTACLE
LOCATIONS)

LP-32
LP-36,38

EXISTING 2" U.G. CONDUIT WITH NEW (2) #10 & (1)
#10 G (FOR NEW LIGHTS) AND (2) #10 & (1) #10 G
(FOR NEW RECEPTACLES) TO NEW LIGHT FIXTURE
LOCATIONS. CONNECT NEW LIGHTS TO EXISTING CIRCUIT
SUPPLYING PLAYGROUND LIGHTING BEING REMOVED
(LP-36,38) AND NEW RECEPTACLES TO CIRCUIT LP-32

EXISTING REC BUILDING

APPROXIMATE LOCATION OF
EXISTING UTILITY ROOM

1
E100 PARTIAL SITE 'E' NEW LIGHTING PLAN
SCALE: 1" = 10'-0"

WEST MILL CREEK AREAS E & G

5100 Parrish St.
Philadelphia, PA 19139

OLIN
LANDSCAPE ARCHITECTURE / URBAN DESIGN / PLANNING
ONE PENN CENTER
1617 JOHN F. KENNEDY BOULEVARD, SUITE 1900
PHILADELPHIA, PA 19103
TEL 215.440.0030 / FAX 215.440.0041
WWW.THEOLINSTUDIO.COM
OLIN PARTNERSHIP, LTD.

Playground Design:
Studio Ludo
4800 Springfield Ave
Philadelphia, PA 19143
(215) 454-6780

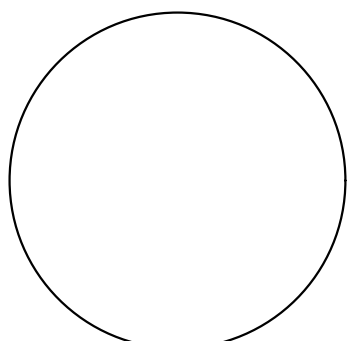
Civil Engineering:
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Philadelphia, PA 19103
(267) 314-5385

Structural:
Arora and Associates, P.C.
190 Brodhead Road, Suite 120,
Bethlehem, PA 18017
(484) 895-3131

MEP:
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Philadelphia, PA 19104
(856) 320-8100

BHG Consulting, Inc.
1812 South 22nd Street
Philadelphia, PA 19145
Phone: 215.755.9318
Fax: 215.755.9319

No.	Date	Description
1	7/31/2024	SCHEMATIC DESIGN ISSUE
2	10/10/2024	DESIGN DEVELOPMENT ISSUE
3	2/21/2025	CD COST ESTIMATE ISSUE
3	05/09/2025	100% CD

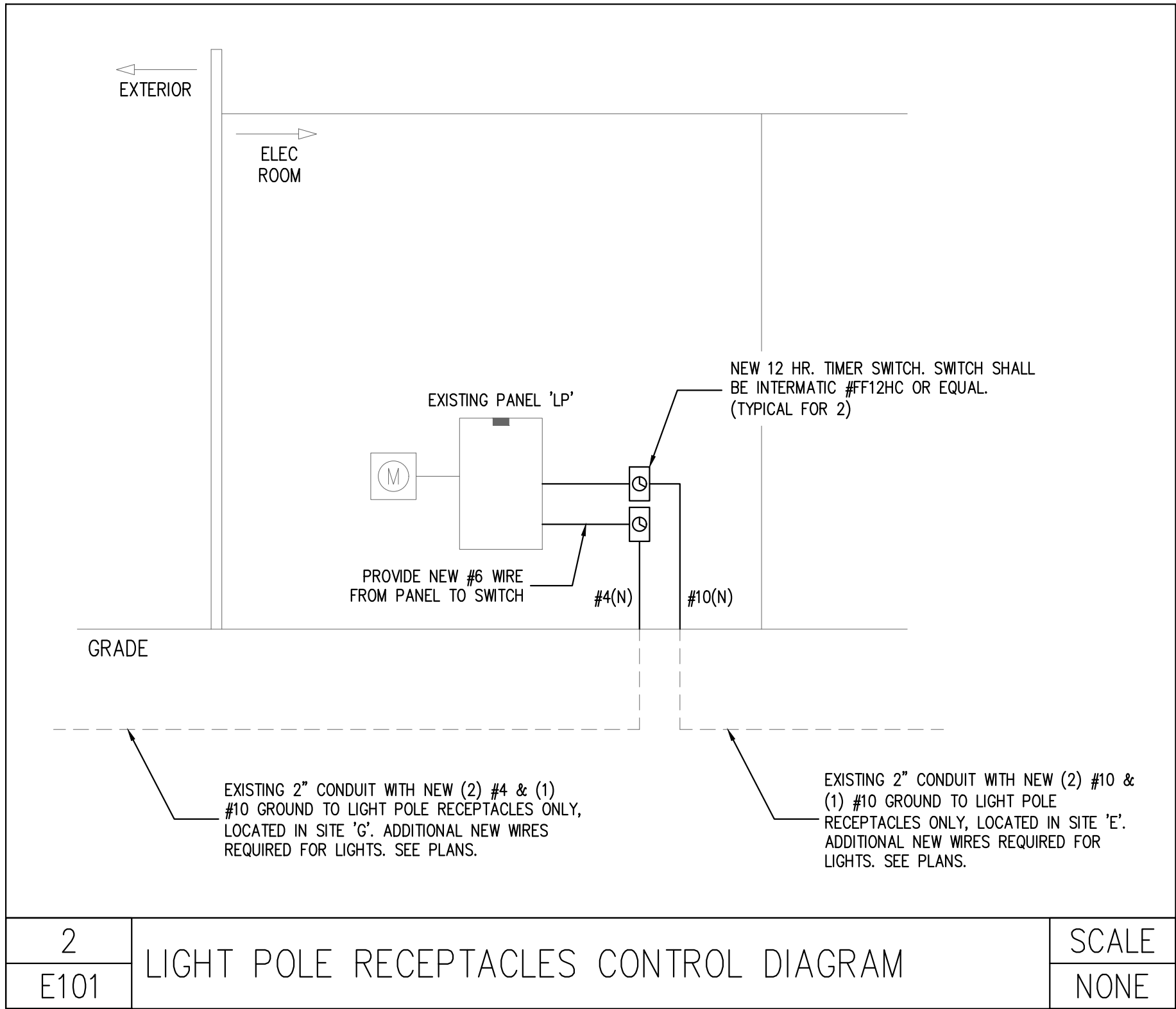


RONALD E. HEIGLER, JR., PE
PA. LIC. PE-071002

PARTIAL SITE 'E' NEW LIGHTING PLAN

Scale: AS NOTED
Date: 5/9/2025
Drawn: R.J.W.
Checked: R.E.H.
Project No.: 2409

E101



1 PARTIAL SITE 'E' NEW LIGHTING PLAN
E101 SCALE: 1" = 10'-0"

WEST MILL
CREEK
AREAS E & G

5100 Parrish St.
Philadelphia, PA 19139

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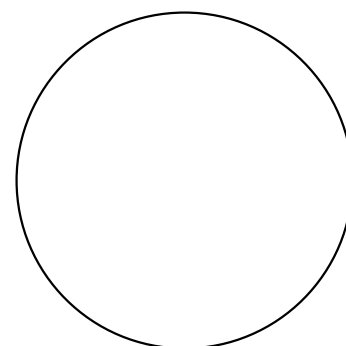
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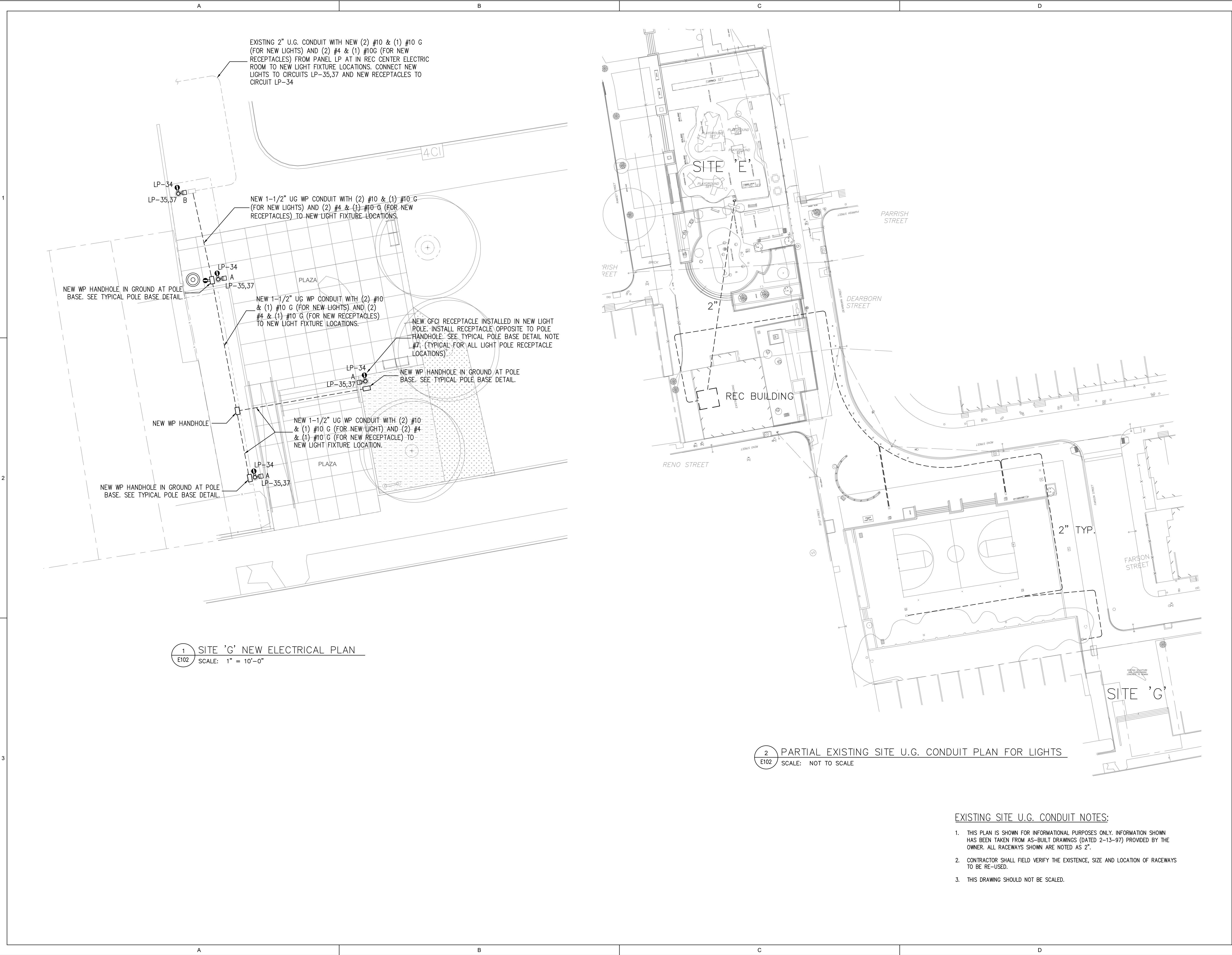


RONALD E. HEIGLER, JR., PE
PA. LIC. PE-071002

SITE 'G' NEW LIGHTING
PLAN

Scale: AS NOTED
Date: 5/9/2025
Drawn: R.J.W.
Checked: R.E.H.
Project No.: 2409

E102



EXISTING SITE U.G. CONDUIT NOTES:

- THIS PLAN IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. INFORMATION SHOWN HAS BEEN TAKEN FROM AS-BUILT DRAWINGS (DATED 2-13-97) PROVIDED BY THE OWNER. ALL RACEWAYS SHOWN ARE NOTED AS 2".
- CONTRACTOR SHALL FIELD VERIFY THE EXISTENCE, SIZE AND LOCATION OF RACEWAYS TO BE RE-USED.
- THIS DRAWING SHOULD NOT BE SCALED.

WEST MILL CREEK AREAS E & G

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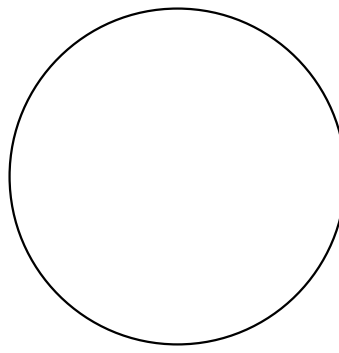
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RONALD E. HEIGLER, JR., PE
PA. LIC. PE-071002

ELECTRICAL NOTES AND DETAILS

Scale: AS NOTED
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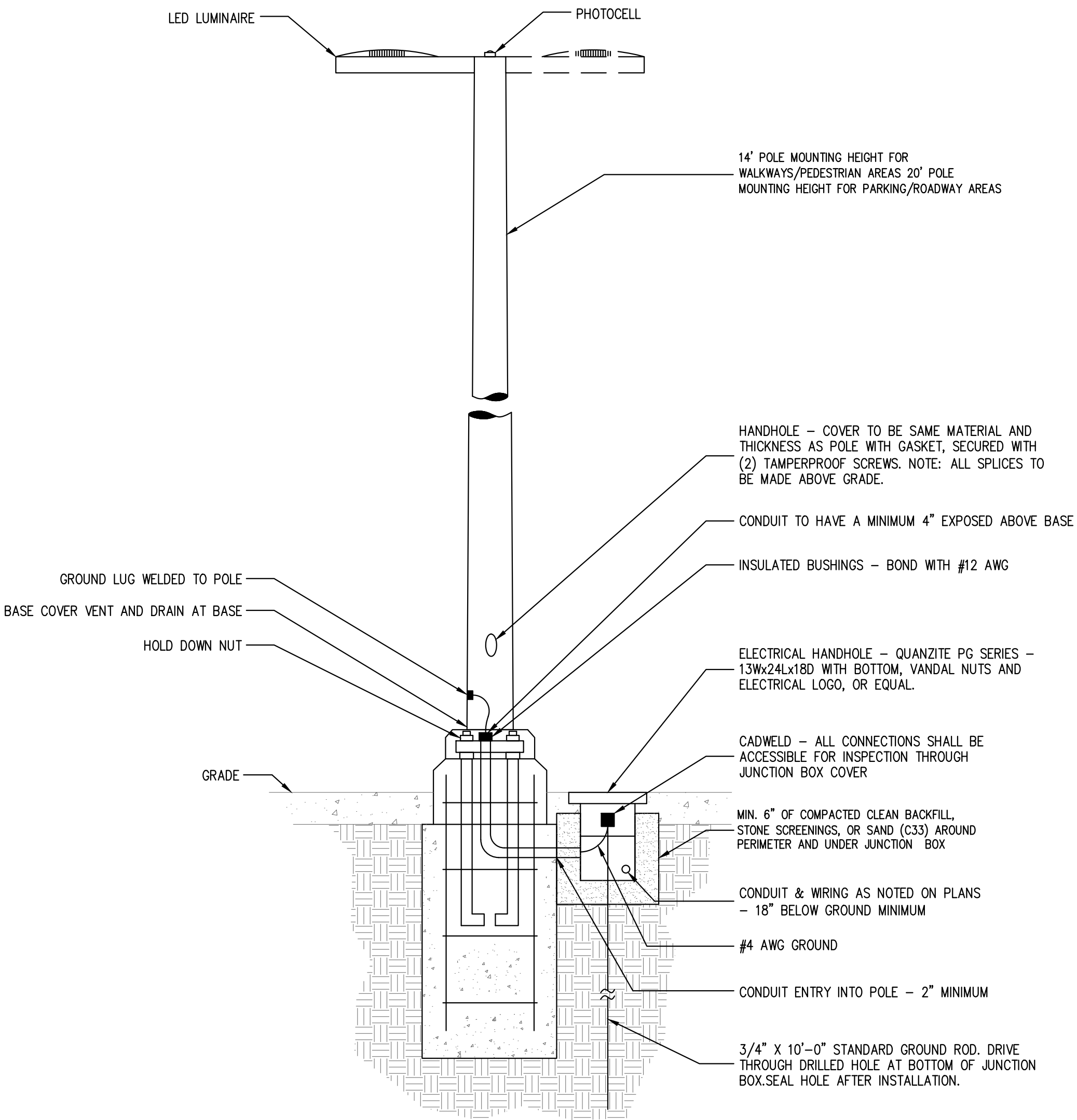
E200

PANEL NO.		NEUTRAL BUS: 100%				VOLTAGE: 208Y/120V, 3PH, 4W & G						
PANEL LP (EXISTING ARRANGEMENT)		GROUND BUS: YES				MAINS: 200A						
EXISTING PANEL BOARD		ISO GROUND BUS: NO				MAIN CIR. BKR.: 200A 3P M.C.B.						
		MOUNTING: SURFACE				AIC RATING:						
CIR. NO.	DESCRIPTION	WIRE SIZE	BREAKER AMPS	POLES	A (VA)	B (VA)	C (VA)	POLES	BREAKER AMPS	WIRE SIZE	DESCRIPTION	CIR. NO.
1					0							2
3	BASKETBALL COURT LIGHTS	(E)	20	2	0	0	0	2	50	(E)	KILN	4
5					0		0					6
7	BASKETBALL COURT LIGHTS	(E)	20	2	0	0	0	2	30	(E)	AIR CONDITIONER	8
9					0							10
11	BASKETBALL COURT LIGHTS	(E)	20	2		0	0	1	20	(E)	HEATER	12
13						0		1	20	(E)	VANDAL LIGHTS	14
15	BASKETBALL COURT LIGHTS	(E)	20	2	0	0	0	1	20	(E)	MULTI PURPOSE ROOM COMPUTERS	16
17					0	0		1	20	(E)	MULTI PURPOSE ROOM REFRIGERATOR	18
19	BASKETBALL COURT LIGHTS	(E)	20	2			0	1	20	(E)	OFFICE & HANDICAP BATHROOM	20
21					0			1	20	(E)	BATHROOM LIGHTS	22
23	HALL & ARTS & CRAFTS LIGHTS	(E)	20	1		0	0	1	20	(E)	KITCHENETTE	24
25	ARTS & CRAFTS RECEPTACLES	(E)	20	1	0			1	20	(E)	MULTI PRUPPOSE RM LIGHTS & RECEPS	26
27	UTILITY ROOM	(E)	20	1	0			1	20	(E)	FIRE ALARM	28
29	WATER HEATER	(E)	20	1		0		1	20	(E)	VIDEO SYSTEM	30
31			20	1	0			1	20			32
33			20	1		0		1	20			34
35			20 (R)	1			0	2	20	(E)	PLAYGROUND POLE LIGHTS	36
37			20 (R)	1	0							38
39			20	1		0		2	30	(E)	ARTS & CRAFTS SUB PANEL	40
41			20	1			0					42
SUB TOTAL					0		0		SUB TOTAL			
LEGEND: ** 6mA GROUND FAULT CIRCUIT BREAKER					CONNECTED LOAD		0 KVA		REMARKS:			
* 30mA GROUND FAULT CIRCUIT BREAKER					DEMAND LOAD		0.0 KVA		(E) = ITEM IS EXISTING TO REMAIN (R) = ITEMS IS TO BE REMOVED			
# LOCK-ON CIRCUIT BREAKER HANDLE					MIN AMPS		0.0 AMPS 3 PH		SERVICE CHARACTERISTICS			

CONTRACTOR SHALL VERIFY EXISTING ELECTRICAL SERVICE CHARACTERISTICS

PANEL NO.		NEUTRAL BUS: 100%				VOLTAGE: 208Y/120V, 3PH, 4W & G						
		GROUND BUS: YES				MAINS: 200A						
PANEL LP (NEW ARRANGEMENT)		ISO GROUND BUS: NO				MAIN CIR. BKR.: 200A 3P M.C.B.						
EXISTING PANEL BOARD		MOUNTING: SURFACE				AIC RATING:						
CIR. NO.	DESCRIPTION	WIRE SIZE	BREAKER AMPS	POLES	A (VA)	B (VA)	C (VA)	POLES	BREAKER AMPS	WIRE SIZE	DESCRIPTION	CIR. NO.
1					0							2
3	BASKETBALL COURT LIGHTS	(E)	20	2		0		2	50	(E)	KILN	4
5						0						6
7	BASKETBALL COURT LIGHTS	(E)	20	2		0		2	30	(E)	AIR CONDITIONER	8
9						0						10
11	BASKETBALL COURT LIGHTS	(E)	20	2		0		1	20	(E)	HEATER	12
13						0						14
15	BASKETBALL COURT LIGHTS	(E)	20	2		0		1	20	(E)	MULTI PURPOSE ROOM COMPUTERS	16
17						0						18
19	BASKETBALL COURT LIGHTS	(E)	20	2		0		1	20	(E)	MULTI PURPOSE ROOM REFRIGERATOR	20
21						0						22
23	BASKETBALL COURT LIGHTS	(E)	20	2		0		1	20	(E)	OFFICE & HANDICAP BATHROOM	24
25						0						26
27	BASKETBALL COURT LIGHTS	(E)	20	2		0		1	20	(E)	BATHROOM LIGHTS	28
29						0						30
31	BASKETBALL COURT LIGHTS	(E)	20	2		0		1	20	(E)	KITCHENETTE	32
33						0						34
35	HALL & ARTS & CRAFTS LIGHTS	(E)	20	1			0	1	20	(E)	MULTI PRUPPOSE RM LIGHTS & RECEPS	36
37	ARTS & CRAFTS RECEPTACLES	(E)	20	1			0	1	20	(E)	FIRE ALARM	38
39							0					40
41	UTILITY ROOM	(E)	20	1			0	1	20		VIDEO SYSTEM	42
43	WATER HEATER	(E)	20	1			0	1	20	(E)		44
45							0					46
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NEW LIGHTING LOAD CALCULATIONS	
LOADS ARE SHOWN IN VA EXCEPT AS NOTED	
NEW LIGHTING LOAD BEING ADDED:	389
25% OF NEW LIGHTING LOAD:	97
NEW POLE RECEPTACLES:	1080
TOTAL NEW LOAD BEING ADDED:	1566
EXISTING LIGHTING LOAD BEING REMOVED:	750
TOTAL NEW LOAD BEING ADDED TO SERVICE:	816
TOTAL NEW LOAD BEING ADDED TO SERVICE (AMPS):	2.3



NOTES:

- SEE ARCHITECTURAL/LANDSCAPE DRAWINGS FOR POLE BASE FOOTING REQUIREMENTS AND DETAILS.
- ALL TERMINATIONS SHALL BE MADE IN POLE BASE, ABOVE GROUND.
- REFER TO LIGHTING SCHEDULE ON LIGHTING PLAN FOR LUMINAIRE TYPE AND MOUNTING HEIGHT.
- SEE GRADING PLANS FOR FINISHED GRADE ELEVATIONS.
- INSTALL NEW HANDHOLES AS SHOWN.
- USE GASKETED CONDUIT HUBS BETWEEN HAND HOLES/JUNCTION BOX AND CONDUITS TO PREVENT ENTRY OF SOIL, DEBRIS, AND WATER INTO HANDHOLE/JUNCTION BOX.
- AS AN OWNER SELECTED OPTION PROVIDE A SEPARATELY CIRCUITED 120V 15AMP GFCI OUTLET IN A NEC APPROVED WEATHER PROOF ENCLOSURE THAT IS INTEGRATED INTO THE POLE AND WIRING IS INTERNAL TO THE POLE. ALIGN OUTLET WITH HANDHOLE OPPOSITE.

THE ABOVE IS A TYPICAL POLE BASE DETAIL.
CONFIRM POLE BASE REQUIREMENTS WITH ARCHITECTURAL/LANDSCAPE DRAWINGS.
INSTALL LIGHT AND POLES PER MANUFACTURERS DIRECTIONS.

1 E200	TYPICAL POLE BASE DETAIL	SCALE NONE
-----------	--------------------------	---------------

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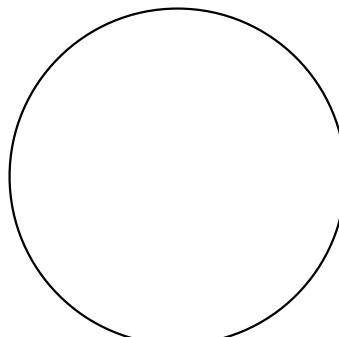
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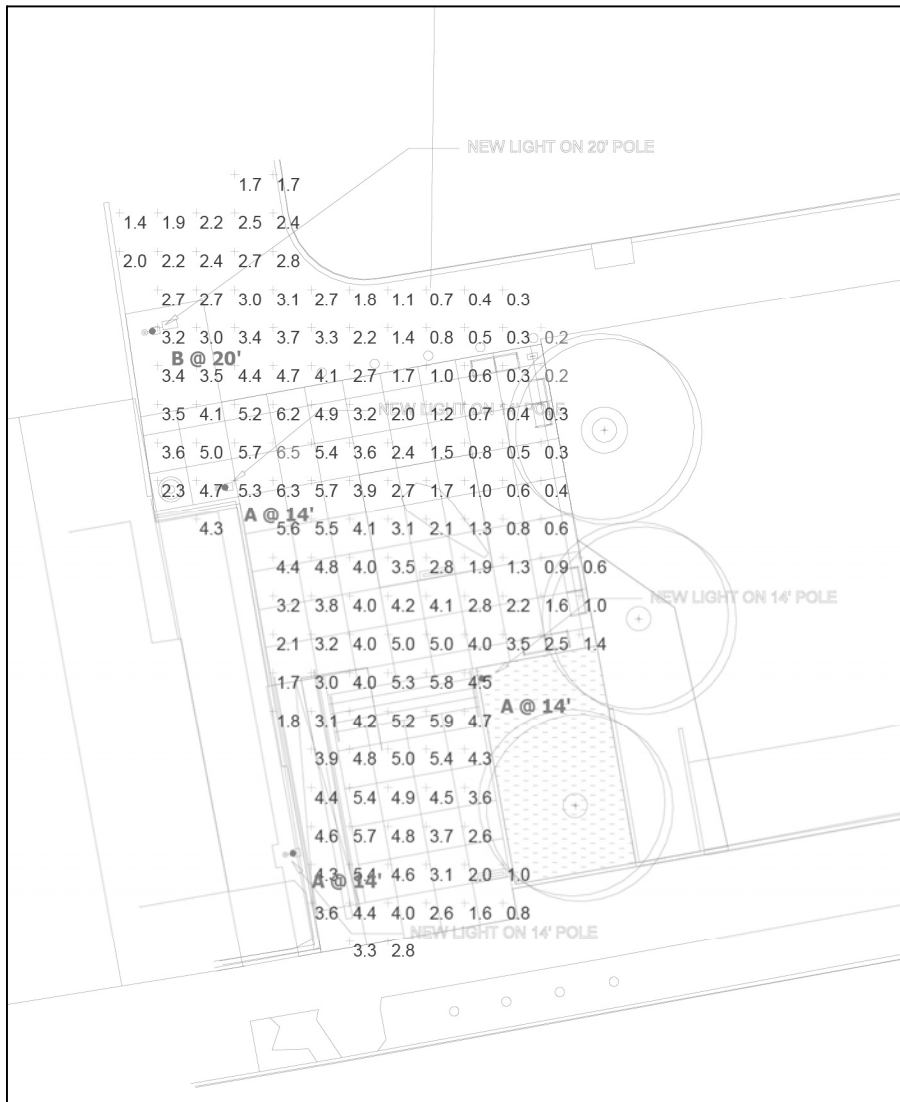
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E201



1 SITE 'E' LIGHTING FOOT CANDLES PLAN
E201 SCALE: NOT TO SCALE



1 SITE 'G' LIGHTING FOOT CANDLES PLAN
E201 SCALE: NOT TO SCALE

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARK	+	1.0 fc	5.6 fc	0.1 fc	56.0:1	10.0:1
PLAZA	+	3.0 fc	6.5 fc	0.2 fc	32.5:1	15.0:1

CALCULATIONS ARE ESTIMATES ONLY BASED ON INFORMATION PROVIDED

