

Discipline	Drawing No.	Drawing Title	Revision	Drawing Date	Set Name
Architect, Landscape	L001	Cover Sheet		2/23/2024	Bid Set
Civil	C-001	Civil Cover Sheet		2/23/2024	Bid Set
Civil	C-003	Stormwater Management Cover Sheet		2/23/2024	Bid Set
Civil	C-004	Sediment Control Cover Sheet		2/23/2024	Bid Set
Civil	C-005	Site Plan Amendment Cover Sheet		2/23/2024	Bid Set
Civil	C-100	Existing Condition & Demolition Plan		2/23/2024	Bid Set
Civil	C-200	Site Plan		2/23/2024	Bid Set
Civil	C-205	Site Details		2/23/2024	Bid Set
Civil	C-210	Grading Plan		2/23/2024	Bid Set
Civil	C-220	Retaining Wall Plan		2/23/2024	Bid Set
Civil	C-301	Stormwater Management Plan		2/23/2024	Bid Set
Civil	C-302	Drainage Area Map		2/23/2024	Bid Set
Civil	C-305	Stormwater Management Details		2/23/2024	Bid Set
Civil	C-320	Storm Drainage Plan		2/23/2024	Bid Set
Civil	C-400	Erosion and Sediment Control Plan		2/23/2024	Bid Set
Civil	C-405	Erosion and Sediment Control Details		2/23/2024	Bid Set
Civil	C-410	Erosion and Sediment Control Notes		2/23/2024	Bid Set
Civil	C-500	Utility Plan		2/23/2024	Bid Set
Civil	SS-001	Sanitary Sewer Plan and Profile		2/23/2024	Bid Set
Arborist	LI-1	FCP Plan View		2/23/2024	Bid Set
Arborist	LI-2	FCP Plan Tables		2/23/2024	Bid Set
Arborist	LI-3	FCP Tree Table (TPAK)		2/23/2024	Bid Set
Arborist	LI-4	FCP Tree Table (TPAK)		2/23/2024	Bid Set
Arborist	LI-5	FCP Tree Table (TPAK)		2/23/2024	Bid Set
Arborist	LI-6	FCP FTPO Notes		2/23/2024	Bid Set
Arborist	LI-7	FCP Details		2/23/2024	Bid Set
Arborist	LI-8	FCP Details		2/23/2024	Bid Set
Arborist	LI-9	FCP Details Mitigation Planting		2/23/2024	Bid Set
Architect, Landscape	L100	Overall Site Plan & Egress Diagram		2/23/2024	Bid Set
Architect, Landscape	L101	Reference Plan And Add Alternates		2/23/2024	Bid Set
Architect, Landscape	L101A	Reference Plan: Add Alternate: Movable Furniture		2/23/2024	Bid Set
Architect, Landscape	L102	Enlargment Plan		2/23/2024	Bid Set
Architect, Landscape	L103	Enlargment Plan		2/23/2024	Bid Set
Architect, Landscape	L104	Layout Plan		2/23/2024	Bid Set
Architect, Landscape	L105	Site Accessibility Plan		2/23/2024	Bid Set
Architect, Landscape	L301	Sections and Elevations		2/23/2024	Bid Set
Architect, Landscape	L302	Sections and Elevations		2/23/2024	Bid Set
Architect, Landscape	L303	Sections and Elevations		2/23/2024	Bid Set
Architect, Landscape	L311	Construction Details		2/23/2024	Bid Set
Architect, Landscape	L312	Construction Details		2/23/2024	Bid Set
Architect, Landscape	L312A	Construction Details		2/23/2024	Bid Set
Architect, Landscape	L312B	Construction Details		2/23/2024	Bid Set
Architect, Landscape	L313	Construction Details		2/23/2024	Bid Set
Architect, Landscape	L314	Construction Details		2/23/2024	Bid Set
Architect, Landscape	L315	Construction Details		2/23/2024	Bid Set
Architect, Landscape	L316	Construction Details		2/23/2024	Bid Set
Architect, Landscape	L317	Construction Details		2/23/2024	Bid Set
Architect, Landscape	L318	Construction Details		2/23/2024	Bid Set
Architect, Landscape	L319	Construction Details		2/23/2024	Bid Set
Architect, Landscape	L320	Construction Details		2/23/2024	Bid Set
Architect, Landscape	L401	Planting Plan		2/23/2024	Bid Set
Architect, Landscape	L402	Planting Plan		2/23/2024	Bid Set
Architect, Landscape	L411	Planting Details		2/23/2024	Bid Set
Architect, Landscape	L601	Lighting Plan		2/23/2024	Bid Set

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Architect, Landscape	L603	Canopy Lighting Plan		2/23/2024	Bid Set
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Structural	S-002	General Notes		2/23/2024	Bid Set
Structural	S-100	Pump Room Repair Plan		2/23/2024	Bid Set
Structural	S-101	Sunning Deck Repair Plan		2/23/2024	Bid Set
Structural	S-200	Repair Details		2/23/2024	Bid Set
Structural	S-201	Masonry & Repair Details		2/23/2024	Bid Set
Structural	S-202	Site Retaining Wall Key Plan and Details		2/23/2024	Bid Set
Aquatic	O-1	Overall Layout Plan		2/23/2024	Bid Set
Aquatic	DP-1	Deck Plan North		2/23/2024	Bid Set
Aquatic	DP-2	Deck Plan South		2/23/2024	Bid Set
Aquatic	SP-1	Swimming Pool Layout		2/23/2024	Bid Set
Aquatic	SP-2	Swimming Pool Plumbing		2/23/2024	Bid Set
Aquatic	SP-3	Swimming Pool Sections		2/23/2024	Bid Set
Aquatic	SL-1	Slide Layout		2/23/2024	Bid Set
Aquatic	SL-2	Slide Plumbing		2/23/2024	Bid Set
Aquatic	SL-3	Details		2/23/2024	Bid Set
Aquatic	SL-4	Details		2/23/2024	Bid Set
Aquatic	AP-1	Activity Pool Layout		2/23/2024	Bid Set
Aquatic	AP-2	Activity Pool Plumbing		2/23/2024	Bid Set
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Aquatic	AP-4	Activity Pool Sections		2/23/2024	Bid Set
Aquatic	AP-5	Details		2/23/2024	Bid Set
Aquatic	AP-6	Details		2/23/2024	Bid Set
Aquatic	AP-7	Details		2/23/2024	Bid Set
Aquatic	AP-8	Details		2/23/2024	Bid Set
Aquatic	AP-9	Details		2/23/2024	Bid Set
Aquatic	AP-10	Details		2/23/2024	Bid Set
Aquatic	AP-11	Details		2/23/2024	Bid Set
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Aquatic	AP-14	Details		2/23/2024	Bid Set
Aquatic	AP-15	Details		2/23/2024	Bid Set
Aquatic	AP-16	Details		2/23/2024	Bid Set
Aquatic	AP-17	Details		2/23/2024	Bid Set
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Aquatic	AP-19	Details		2/23/2024	Bid Set
Aquatic	AP-20	Details		2/23/2024	Bid Set
Aquatic	MR-1	Mechanical Room Layout		2/23/2024	Bid Set
Aquatic	MR-1.1	Mechanical Room Plumbing Layout		2/23/2024	Bid Set
Aquatic	MR-2	Details		2/23/2024	Bid Set
Aquatic	MR-3	Details		2/23/2024	Bid Set
Aquatic	MR-4	Details		2/23/2024	Bid Set
Aquatic	MR-5	Details		2/23/2024	Bid Set
Aquatic	MR-6	Details		2/23/2024	Bid Set
Aquatic	MR-7	Details		2/23/2024	Bid Set
Aquatic	MR-8	Details		2/23/2024	Bid Set
Aquatic	MR-9	Details		2/23/2024	Bid Set
Aquatic	MR-10	Details		2/23/2024	Bid Set
Electric	E001	Specifications and Symbols		2/23/2024	Bid Set
Electric	E002	Demolition Site Plan		2/23/2024	Bid Set
Electric	E003	Demolition Site Plan		2/23/2024	Bid Set
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Electric	E005	Site Plan		2/23/2024	Bid Set



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Electric	E007	Bath House & Snack Bar Demolition and New Work Plans		2/23/2024	Bid Set
Electric	E008	Fitness Pool Storage Room Demolition & New Work Plans		2/23/2024	Bid Set
Electric	E009	Bath House Riser Diagrams		2/23/2024	Bid Set
Electric	E010	Snack Bar and Pool Equipment Room Riser Diagrams		2/23/2024	Bid Set
Electric	E011	Panel and Light Fixture Schedules		2/23/2024	Bid Set
Electric	E012	Panel Schedules		2/23/2024	Bid Set
Electric	E013	Panel Schedules		2/23/2024	Bid Set
Plumbing	P001	Specifications and Symbols		2/23/2024	Bid Set
Plumbing	P002	Site Plan		2/23/2024	Bid Set
Plumbing	P003	Floor Plan		2/23/2024	Bid Set
Plumbing	P004	Risers, Schedules, and Details		2/23/2024	Bid Set
Mechanical	M-001	Specifications, Legend, Notes, Abbreviations & Schedules		2/23/2024	Bid Set
Mechanical	M-101	Mechanical Room Demolition & New Work Plans		2/23/2024	Bid Set
Drawings Log Last Updated			2/26/2024		



# ROCKVILLE SWIM & FITNESS CENTER OUTDOOR RECREATION POOL RENOVATIONS

DEPARTMENT OF RECREATION AND PARKS

## BID DOCUMENTS



### GENERAL NOTES:

1.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONSTRUCTION CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION AND COMMENCEMENT OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT AND/OR DISCREPANCY BETWEEN THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE OR APPLICABLE CODES, REGULATIONS, LAWS, RULES, STATUTES AND/OR ORDINANCES, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY THE PROJECT ARCHITECT OF RECORD, IN WRITING, OF SAID CONFLICT AND/OR DISCREPANCY PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR'S FAILURE TO NOTIFY THE PROJECT ARCHITECT SHALL CONSTITUTE CONTRACTOR'S FULL AND COMPLETE ACCEPTANCE OF ALL RESPONSIBILITY TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, LAWS, STATUTES, ORDINANCES AND CODES AND, FURTHER, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SAME.
2.

CONTACT 'MISS UTILITY' 48 HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH ALL PUBLIC AND PRIVATE UNDERGROUND UTILITIES, PIPES AND OTHER STRUCTURES BY CONTACTING MISS UTILITY.
3.

BASE INFORMATION INCLUDING, BUT NOT LIMITED TO, RIGHTS-OF-WAY, EASEMENTS, SIGHT DISTANCES, UTILITY LOCATION, TOPOGRAPHY, AND PROPOSED GRADING PROVIDED BY CLARK | AZAR & ASSOCIATES, INC., GERMANTOWN, MD.
4.

FIELD STAKEOUT SURVEYOR IS RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS AND NOTING ANY DISCREPANCIES BETWEEN SITE FIELD CONDITIONS AND STAKING PLAN PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR IS RESPONSIBLE FOR WORK PERFORMED PRIOR TO VERIFICATION OF STAKING PLAN. CONTRACTOR SHALL BEAR THE COSTS ASSOCIATED WITH REMEDIAL ACTION, AS DIRECTED BY ARCHITECT.
5.

ARCHITECT SHALL APPROVE STAKING IN FIELD OF ALL WORK PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT 72 HOURS IN ADVANCE OF STAKEOUT.
6.

PRIOR TO CONSTRUCTION OF WALLS, CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL FINISH GRADE ELEVATIONS IN THE FIELD AND ADJUST TOP OF WALL ELEVATIONS, AS APPROVED BY THE ARCHITECT, TO MEET THE DESIGN INTENT.
7.

DO NOT PROCEED WITH CONSTRUCTION WHEN OBSTRUCTIONS AND/OR GRADE CONFLICTS EXIST. IMMEDIATELY ALERT ARCHITECT OF SUCH CONDITIONS IN WRITING. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR ALL REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
8.

ALL DIMENSIONS SHOWN ON L-SERIES PLANS ARE PARALLEL AND PERPENDICULAR UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO THE FACES OF WALLS AND BACKS OF CURBS, UNLESS OTHERWISE NOTED. DO NOT SCALE DIMENSIONS OFF THE DRAWINGS.
9.

THESE PLANS ARE REPRESENTATIVE OF DESIGN INTENT ONLY AND, AS SUCH, DENOTE VERTICAL AND HORIZONTAL RELATIONSHIPS, MATERIALS AND FINISHES. SUBMIT SHOP DRAWINGS FOR ARCHITECT'S REVIEW INDICATING ELECTRICAL AND STRUCTURAL DESIGNS APPROPRIATE TO ENSURE DESIGN INTENT IS MET.
10.

PROVIDE SUBMITTALS, SHOP DRAWINGS, SAMPLES, AND MOCKUPS FOR REVIEW BY THE ARCHITECT PRIOR TO ORDERING/CONSTRUCTING. CONTRACTOR SHALL BEAR RESPONSIBILITY FOR WORK UNDERTAKEN AND/OR MATERIALS ORDERED PRIOR TO OBTAINING THE ARCHITECT'S APPROVAL. CONTRACTOR SHALL BEAR THE COSTS ASSOCIATED WITH REMEDIAL ACTION, AS DIRECTED BY THE ARCHITECT .
11.

ALL IMPROVEMENTS SHOWN WITHIN THE PUBLIC RIGHT-OF-WAY ARE RECOMMENDATIONS OR PREFERENCES AND SUBJECT TO FINAL APPROVAL BY THE APPROPRIATE AUTHORITY OR JURISDICTION. OBTAIN APPROVAL FROM CITY OF ROCKVILLE AND/OR MARYLAND PRIOR TO CONSTRUCTION.
12.

ALL EQUIPMENT SERVING THE EXISTING FITNESS POOL WILL NEED TO REMAIN OPERATIONAL IN THE MONTHS OF MARCH – OCTOBER.
13.

ALL WORK SHALL CONFORM TO THE PROVISIONS OF ALL APPLICABLE ORDINANCES, REGULATIONS, AND ADOPTED STANDARDS OF CITY OF ROCKVILLE AND MARYLAND UNLESS WAIVED AND/OR MODIFIED UNDER SEPARATE APPLICATION. OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION. SEE BELOW FOR A LIST OF DESIGN CODES AND STANDARDS USED FOR THIS PROJECT, INCLUDING BUT NOT LIMITED TO THE FOLLOWING. SEE SUBCONSULTANTS DRAWING SETS FOR ADDITIONAL REQUIREMENTS FOR THE PROJECT.

i.

MONTGOMERY COUNTY EXECUTIVE REGULATION: 22-12, MANUAL ON SWIMMING POOL CONSTRUCTION

ii.

MONTGOMERY COUNTY EXECUTIVE REGULATION: 21-12AM, MANUAL ON SWIMMING POOL OPERATION

iii.

CODE OF MARYLAND REGULATIONS (COMAR)10.17.01: PUBLIC SWIMMING POOLS AND SPAS, CODE OF MARYLAND REGULATIONS (COMAR) 09.12.63: WATER SLIDES

iv.

AMERICANS WITH DISABILITIES ACT AS AMENDED AND 2010 ADA STANDARDS OF ACCESSIBLE DESIGN & MARYLAND ACCESSIBILITY CODE (COMAR 05.02.02)

v.

BUILDING CODE - 2018 INTERNATIONAL BUILDING CODE

vi.

MECHANICAL – 2018 INTERNATIONAL MECHANICAL CODE

vii.

PLUMBING - 2018 INTERNATIONAL PLUMBING CODE

viii.

ELECTRICAL – 2017 NATIONAL ELECTRICAL CODE (NFPA 70)

ix.

GAS – 2015 INTERNATIONAL FUEL GAS CODE

x.

SPRINKLER – 2016 NFPA 13 FIRE SPRINKLER CODE

xi.

FIRE ALARM – 2016 NFPA 72 FIRE ALARM CODE

xii.

AMERICAN CONCRETE INSTITUTE (ACI) STANDARDS, LATEST EDITION

xiii.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (MDE) LATEST EDITION

xiv.

ENERGY EFFICIENCY – 2018 INTERNATIONAL ENERGY CONSERVATION CODE

xv.

CITY OF ROCKVILLE AMENDMENTS: [HTTPS://WWW.ROCKVILLEMD.GOV/2169/BUILDING-AND-SAFETY-CODES](https://www.rockvillemd.gov/2169/BUILDING-AND-SAFETY-CODES)

xvi.

CITY OF ROCKVILLE FOREST AND TREE PRESERVATION ORDINANCE: [HTTPS://WWW.ROCKVILLEMD.GOV/1066/FORESTRY](https://www.rockvillemd.gov/1066/FORESTRY)

xvii.

CITY OF ROCKVILLE STORMWATER ORDINANCE: [HTTPS://WWW.ROCKVILLEMD.GOV/2375/STORMWATER-MANAGEMENT-PERMIT](https://www.rockvillemd.gov/2375/STORMWATER-MANAGEMENT-PERMIT)

xviii.

CITY OF ROCKVILLE, DEPARTMENT OF PUBLIC WORKS STANDARDS AND DETAILS FOR CONSTRUCTION, LATEST EDITION

xviii.

2021 INTERNATIONAL SWIMMING POOL AND SPA CODE

14.

PERMIT NUMBERS ASSOCIATED WITH PROJECT: PWK2024-00048, SCP2024-00002, SMP2024-00016

15.

EQUIPMENT SERVING THE EXISTING FITNESS POOL WILL NEED TO REMAIN OPERATIONAL IN THE MONTHS OF MARCH – OCTOBER.

16.

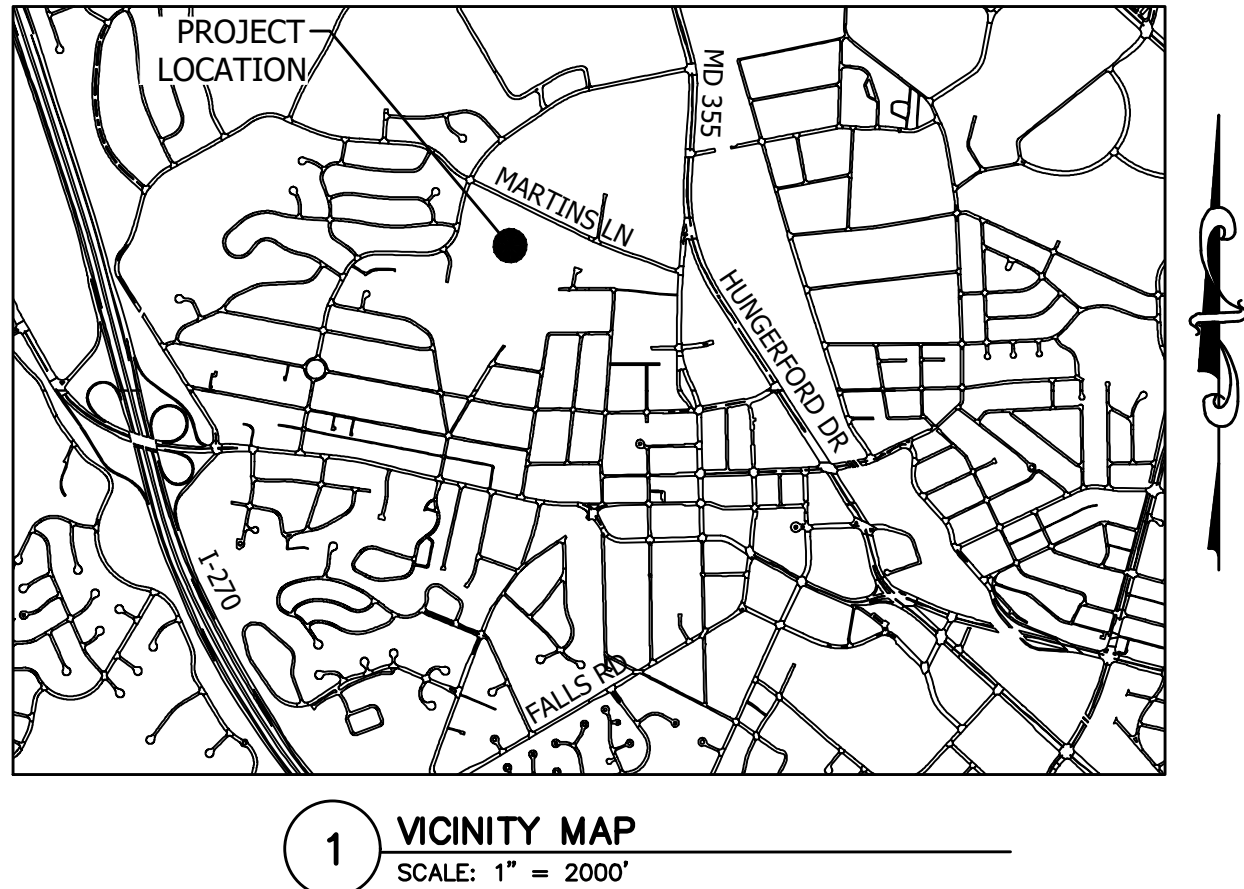
CONTRACTOR RESPONSIBLE FOR COORDINATING WITH WASHINGTON GAS AND NPL (THIRD PARTY CONTRACTOR) FOR FINAL DECISION ON GAS LINE RELOCATION. BASE BID TO INCLUDE ANY FEES ASSOCIATED WITH THE GAS LINE RELOCATION. NPL CONTACT INFO: KAREN MALDONADO, KMALDONADO@GONPL.COM, 571-428-3176.
- 
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- ### LSG LANDSCAPE ARCHITECTURE
- 8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045
- 
- ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850
- 
- DEPARTMENT OF  
RECREATION AND PARKS
- ## OUTDOOR RECREATION POOL RENOVATIONS
- 355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND
- ### COVER SHEET
- ### BID SET
- |   |                                      |
|---|--------------------------------------|
| 1 | 65% CONSTRUCTION DOCUMENT 06/25/2023 |
| 2 | 80% CONSTRUCTION DOCUMENT 08/18/2023 |
| 3 | 95% CONSTRUCTION DOCUMENT 10/10/2023 |
| 4 | BUILDING PERMIT SET 12/08/2023       |
| 5 | HD COMMENT RESPONSE 01/08/2024       |
| 6 | BID SET 02/01/2024                   |
| 7 | BUILDING PERMIT SET 02/06/2024       |
| 8 | BUILDING PERMIT SET 02/20/2024       |
| 9 | BID SET 02/22/2024                   |
- | No.                         | Description | Date |
|-----------------------------|-------------|------|
| Revisions                   |             |      |
| Project Number: 22.00036.00 |             |      |
| Scale: AS SHOWN             |             |      |
| Drawn By: AD, HW, BS        |             |      |
| Checked By: AD              |             |      |
| Date: 01/08/2024            |             |      |
| Sheet No.                   |             | L001 |
- © 2019 LSG LANDSCAPE ARCHITECTURE
- Page 624 of 747
- BID SET 02/23/2024



# ROCKVILLE SWIM AND FITNESS CENTER OUTDOOR RECREATION POOL RENOVATIONS

### GENERAL NOTES

1. TOPOGRAPHY SURVEY PERFORMED BY KCW. DATED SEPTEMBER 2022 AND UPDATED JUNE 2023.
2. THE HORIZONTAL DATUM OF THIS SURVEY IS MARYLAND STATE PLANE (NAD83/91).
3. THE VERTICAL DATUM OF THIS SURVEY IS NAVD 88
4. THE LOCATION OF UNDERGROUND UTILITIES IS BASED ON AVAILABLE RECORDS. CONTRACTOR TO VERIFY IN FIELD.
5. THERE IS NO MAPPED FLOODPLAIN ASSOCIATED WITH THIS SITE PER FEMA FLOOD INSURANCE RATE MAP NUMBER 2403C0333D, DATED SEPT. 29, 2006.
6. DETAIL DRAWINGS AND SCHEDULES DESCRIBE CONSTRUCTION AT GIVEN AREAS. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL UTILIZE EQUIVALENT CONSTRUCTION METHODS IN ALL AREAS NOT DETAILED.
7. ALL NOTES ON DRAWINGS SHALL BE ASSUMED AS TYPICAL, UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS.
8. IT SHALL BE THE DUTY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS GIVEN ON THE DRAWINGS AND TO REPORT TO THE ENGINEER ANY ERROR OR INCONSISTENCY WITH THE ACTUAL CIRCUMSTANCES IN THE FIELD BEFORE COMMENCING WORK.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL AND ALL ITEMS REQUIRED TO PROVIDE A SITE CLEAR OF OBSTRUCTIONS (ABOVE & BELOW GRADE) AND GRADED TO SPECIFIED ELEVATIONS.
10. ALL BIDDERS: THE CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIM/HERSELF WITH THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED PRIOR TO SUBMITTING BID.
11. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL SITE SUB-CONTRACTORS/BIDDERS WITH FULL AND COMPLETE SETS OF ALL CIVIL DRAWINGS AND SPECIFICATIONS FOR THEIR USE IN PREPARING BIDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DELAYS AND COSTS ARISING DURING CONSTRUCTION FROM BIDS BASED UPON INCOMPLETE SETS OF SITE BID DOCUMENTS.
12. PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE SPECIFICATION FOR TOPSOIL (SEE SHEET C-410) AND TECHNICAL SPECIFICATIONS. IF ON-SITE MATERIALS DO NOT MEET REQUIREMENTS OF TOPSOIL, COORDINATE WITH CITY OF ROCKVILLE REGARDING TILLING-IN OF CERTIFIED COMPOST TO ON-SITE SOILS IN ORDER TO MEET SPECIFICATION.
13. ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN AND AMONG THE CONSTRUCTION DOCUMENTS OR DOUBT ABOUT THEIR MEANING, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR DIRECTION BEFORE PROCEEDING WITH WORK. IF AMBIGUITIES EXIST, THE BETTER QUALITY AND GREATER QUANTITY OF MATERIAL SHALL BE BID UPON AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED BY THE OWNER IN WRITING.
14. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL TRADE PERMITS AND PAY FEES ASSOCIATED WITH SAID PERMITS. CITY OF ROCKVILLE PERMIT FEES WILL BE WAIVED
15. ALL WORK ASSOCIATED WITH THE CITY OF ROCKVILLE PUBLIC WORKS PERMIT SHALL BE PERFORMED BY A WSSC LICENSED CONTRACTOR IN ACCORDANCE WITH WSSC REGULATIONS.
16. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH WASHINGTON GAS FOR FINAL DECISION ON GAS LINE MOVEMENT. BASE BID SHALL INCLUDE ANY FEES ASSOCIATED WITH THE GAS LINE RELOCATION.
17. CLARK J AZAR & ASSOCIATES WILL RELEASE CAD BASE FILES OF THE SITE CIVIL DRAWINGS TO THE SUCCESSFUL CONTRACTOR PRIOR TO THE BIDDING PROCESS. ALL FILES WILL BE RELEASED PRIOR TO AWARD OF CONTRACT.



CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



CLARK | AZAR &amp; ASSOCIATES

0440 Century Blvd, Suite 2  
Germantown, MD. 20874  
T(301) 528-2010  
[www.clarkazar.com](http://www.clarkazar.com)

## A Woman Owned Small Business



I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO.

EXPIRATION DATE

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 208



DEPARTMENT OF  
RECREATION AND PARKS

# OUTDOOR RECREATION POOL RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

# CIVIL COVER SHEET

## PERMIT SET

1	65% CONSTRUCTION DOCUMENT 06/25/202
2	80% CONSTRUCTION DOCUMENT 08/18/202
3	95% CONSTRUCTION DOCUMENT 10/10/202
4	PERMIT SET 12/08/202

No.	Description	Date
Revisions		

Project Number: 22.00036.0  
Scale: 1" = 200'  
Drawn By: S  
Checked By: J  
Date: 02/08/202

Sheet No. C-001



# ROCKVILLE SWIM AND FITNESS CENTER OUTDOOR RECREATION POOL RENOVATIONS SMP2024-00016

## GENERAL NOTES November 2016

- The Applicant is the entity for which the City of Rockville Department of Public Works (DPW) has issued a permit. For DPW projects where a permit is not applicable, the entity for which the City contract is issued shall be considered the Applicant in these notes. The Applicant is responsible for all contractors, agents, subcontractors, or other entities completing work under this permit and/or approved plan.
- The Applicant must arrange a pre-construction meeting prior to commencing any work. Provide at least 48 hours of notice to the following: City Project Inspector listed in the permit, City Forestry Inspector at 240-314-8713, if required by either a DPW and/or Forestry permit, or DPW Sediment Control Inspector at 240-314-8879, if required by permit.
- The Applicant must contact Miss Utility at 1-800-257-7777 or #811 or missutility.net so that utilities are marked prior to holding any pre-construction meeting.
- Information concerning existing underground utilities was obtained from available records. The Contractor must determine the exact location and elevation of existing utilities by digging test pits at the utility crossings well in advance of trenching. If clearance is less than shown on this plan, contact the Professional Engineer who stamped the design plans before proceeding with construction.
- Maintain a minimum one-foot vertical clearance between all City utilities crossing any other utility. Unless otherwise noted, maintain a five-foot horizontal clearance between a City utility with any other utility or structure. The only exception is that there shall be a two-foot horizontal clearance between City water and sewer mains.
- At the end of each day, all trenches shall be backfilled, all equipment secured, and the area left in a safe condition. Steel plates are allowed to remain no longer than seven days. Plates are to be notched (recessed) and pinned to the roadways. Plates must be large enough to allow a minimum of one-foot bearing on all four sides of the pavement surrounding the excavation. The steel plate requirements only apply to public streets.
- The public road utility patch shall be in accordance with City Standard Detail #60, or as shown on the plans. All trenches in public streets shall be filled with compacted Graded Aggregate Base (GAB) from the pavement to the top of the pipe embedment zone or to a depth of five-feet, whichever is less.
- DPW normal working hours are Monday through Friday, except holidays, from 7 a.m. to 5 p.m. The City observes the following holidays: New Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, Thanksgiving Friday, and Christmas Day, and all days of general and congressional elections throughout the State. The Contractor will not be permitted to close lanes or do any work that requires the services of the City forces, outside of the normal working hours, unless listed in the permit or authorized by DPW in writing. However, the Contractor, with verbal permission of DPW may be permitted to work outside of the normal work hours for clean-up activities or other such items that do not adversely impact traffic, residents or City services.
- Traffic must be maintained on all roadways within the construction area as directed by DPW. No lane closure shall be permitted between 7:00-9:00 A.M. or 3:30-6:00 P.M. Monday through Friday. An exception is that lane closures are permitted on secondary residential streets at any time during normal working hours. Deployment and design of all traffic control devices shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). If required, traffic control plans shall be reviewed and approved by the Chief of the Traffic and Transportation Division. DPW may suspend lane closure or other traffic controls at any time during, or in advance of, inclement weather events.
- Sheeting and shoring is the total responsibility of the Applicant. A Professional Engineer licensed in the State of Maryland shall seal these drawings. Provide three copies to DPW for informational purposes only.
- In addition to all City permits, the Applicant is responsible to ensure that all necessary Federal, State and/or Montgomery County approvals and/or permits have been obtained in association with this approved plan.
- Shop drawings must be prepared and sealed by a Professional Engineer licensed in the State of Maryland prior to fabrication. The Professional Engineer who sealed the design plans (but not the shop drawings) must approve the shop drawings for conformance to the approved design. Provide three copies of approved shop drawings to DPW prior to construction. Standard pre-cast structures previously approved by the Maryland State Highway Administration, Montgomery County and Washington Suburban Sanitary Commission do not require a shop drawing submission. Use actual field wall data for design of pipes and structures. All pipes and structures in paved areas shall be designed for HS-20 vehicle loading.
- Upon completion of construction, the Applicant shall provide three sets of red lined As-Built prints (24" x 36") for review and approval by DPW. The drawings must contain the original approval signatures and Professional Engineer's seal and signature (a scanned image of the original mylar is acceptable). The As-Built shall be sealed by a Professional Engineer or Professional Surveyor, as appropriate and must be licensed by the State of Maryland. The seal shall note that it is only for the As-Built and shall include an as-built certification acceptable to DPW. Upon receipt of written approval, the Applicant shall provide approved As-Built mylar drawings along with the original mylars (with all original signatures) to DPW prior to the release of the permit.
- The Applicant must comply with the Montgomery County Noise Control Ordinance. Please refer to the Montgomery County Department of Environmental Protection at 240-777-7770, askdep@montgomerycountymd.gov, or www.montgomerycountymd.gov/DEP.

- Concrete design shall meet the requirements of ACI 350, Environmental Engineering Concrete Structures, with freezing and thawing exposures. Concrete mix shall use type II or IIA cement, with a 28-day compressive strength of 4500 psi for cast in place and 5000 psi for pre-cast structures. Concrete shall also meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 420 and 902.10, Mix No. 6.
- The Applicant shall supply DPW with certified concrete strength results from an independent firm, stamped by a Professional Engineer who is licensed in the State of Maryland.
- Reinforcing steel to be ASTM A615, Grade 60. Epoxy coated reinforcing, when specified, shall conform to ASTM A775. Minimum steel spacing requirement to be in accordance with ACI 350,  $A_s = 0.003$  bh at maximum rebar spacing of 12-inches. Minimum concrete cover over steel is 2-inches for walls or slabs; 3-inches for base slabs cast against earth or mud mat. Wall thickness and clear distance to reinforcing shall be as shown on drawings. All bars to be lapped 90 bar diameters unless noted otherwise. Top slab steel shall be lapped over a support wall. Walls greater than 10-inches in thickness shall have reinforcement on both faces.
- Construction joints on structures, including SWM risers and weir walls, shall be located as shown or as directed by DPW. All construction joints shall have a 2-inch x 4-inch keyway with rubber, neoprene or silicon water stop. Bentonite water stops are not acceptable.
- DPW must approve any changes to the SWM riser structure at least 48 hours prior to ordering of the pre-cast structure. If a pre-cast structure is substituted for a designed cast-in-place structure, DPW must be provided new anti-rotation computations, sealed by Professional Engineer who is licensed in the State of Maryland, for the pre-cast structure if the structure has smaller dimensions than the original structure.

## STORMWATER MANAGEMENT STRUCTURE NOTES May 2012

### General

- All work and materials for construction shall be in accordance with the latest general specifications and standard details of the Maryland State Highway Administration (MSHA), Montgomery County, Maryland Department of the Environment Stormwater Design Manual and NRCS-MD No. 378 Pond Standards/Specifications.
- Care of Water During Construction – All work on permanent structures shall be carried out in areas free from water. The Applicant shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels and stream diversions necessary to protect the areas to be occupied by the permanent work. The Applicant also shall furnish, install, operate and maintain all necessary pumping and other equipment required for removal of water from the various parts of work and for maintaining the excavations, foundation and other parts of the work free from water as required or directed by the Department of Public Works (DPW) for constructing each part of the work. After having served its purpose, all temporary protective work shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet and so as not to interfere, in any way, with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent work.
- The removal of water from the required excavation and/or foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavation and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations, which may require draining the water to surps from which the water shall be pumped. An exception to this will be made when compacting a filter diaphragm under a stormwater management (SWM) structure; buried; it is acceptable to flood the sand diaphragm with water to enhance compaction.
- Silt and debris shall not be allowed to enter any SWM storage or control structure. Runoff shall not enter structures until the contributing drainage areas have been stabilized. All openings shall be protected with appropriate sediment control measures during construction. Where storm drainpipes convey construction runoff to sediment control traps or basins, the pipes shall be flushed clean at the end of construction prior to the removal of the sediment control trap/basin. Under no circumstances should water be discharged without using proper dewatering procedures.
- All sand used in SWM facilities must be washed silica sand. Limestone sand is unacceptable.
- All proprietary stormwater management structures and facilities shall be installed and maintained according to manufacturer's recommendations.

### Concrete

- Concrete design shall meet the requirements of ACI 350, Environmental Engineering Concrete Structures, with freezing and thawing exposures. Concrete mix shall use type II or IIA cement, with a 28-day compressive strength of 4500 psi for cast in place and 5000 psi for pre-cast structures. Concrete shall also meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 420 and 902.10, Mix No. 6.
- The Applicant shall supply DPW with certified concrete strength results from an independent firm, stamped by a Professional Engineer who is licensed in the State of Maryland.
- Reinforcing steel to be ASTM A615, Grade 60. Epoxy coated reinforcing, when specified, shall conform to ASTM A775. Minimum steel spacing requirement to be in accordance with ACI 350,  $A_s = 0.003$  bh at maximum rebar spacing of 12-inches. Minimum concrete cover over steel is 2-inches for walls or slabs; 3-inches for base slabs cast against earth or mud mat. Wall thickness and clear distance to reinforcing shall be as shown on drawings. All bars to be lapped 90 bar diameters unless noted otherwise. Top slab steel shall be lapped over a support wall. Walls greater than 10-inches in thickness shall have reinforcement on both faces.
- Construction joints on structures, including SWM risers and weir walls, shall be located as shown or as directed by DPW. All construction joints shall have a 2-inch x 4-inch keyway with rubber, neoprene or silicon water stop. Bentonite water stops are not acceptable.
- DPW must approve any changes to the SWM riser structure at least 48 hours prior to ordering of the pre-cast structure. If a pre-cast structure is substituted for a designed cast-in-place structure, DPW must be provided new anti-rotation computations, sealed by Professional Engineer who is licensed in the State of Maryland, for the pre-cast structure if the structure has smaller dimensions than the original structure.

### Corrugated Metal Pipe Used For Stormwater Management Storage

- Corrugated metal pipe shall be aluminum Type 2 corrugated steel pipe. The pipe and its appurtenances shall conform to AASHTO M-36, AASHTO M-274, ASTM A760 and ASTM A529. Pipe over 60-inches shall be 12 gauge with 5-inch x 1-inch corrugations. All pipe 60-inches and less shall be 14 gauge with 2-2/3-inch x 1/2-inch corrugations.
- Aluminized steel pipe that comes in contact with concrete shall be coated with zinc chromate primer.
- Coupling bands, anti-seep collars, and sections, etc., must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 millimeters thickness.
- All connections with pipes must be completely watertight. The drainpipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Anti-seep collars and antier shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight. All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be re-rolled with an adequate number of corrugations to accommodate the bandwidth. The following type connections are acceptable for pipes less than 24-inches in diameter: flanges on both ends of the pipe, a 12-inch wide standard lap type band with 12-inches wide by 3/8-inches thick closed cell circular neoprene gasket; and a 12-inch wide hugger type band with O-ring gaskets having a minimum diameter of 1/2-inch greater than the corrugation depth. Pipes 24-inches in diameter and larger shall be connected by a 24-inch long annular corrugated band using rods and lugs (two on each side of the lug). A 12-inch wide by 3/8-inch thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24-inches. Gaskets shall be pre-stressed in accordance with manufacturer's installation specifications.
- Corrugated metal pipe shall be constructed in accordance with MSHA specifications, Sections 303 and 304. Pipe over 60-inches shall have a minimum 2-foot of cover.

All pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy, or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support to a minimum depth of 6-inches below sub-grade.

## GEOTECHNICAL NOTES November 2016

- The Applicant shall be responsible for all subgrade inspection and soil compaction testing associated with any work within a City right-of-way, private property subject to a public access easement, or private property subject to City easement for public utilities or public improvements; and/or any work associated with a sediment control facility, or stormwater management practice. This work shall be completed by or under the supervision of a Professional Engineer licensed in the State of Maryland. For the purposes of these notes and associated approved plans, this Engineer shall be referred to as the Geotechnical Engineer and shall be an independent firm from the Applicant.
- Any plans subject to NRCS-MD Pond Code 378 Standards/Specifications, as shown on the plans, shall supersede these notes when these notes are less stringent or in case of conflict. Any reference to the Engineer in the 378 Standard/Specifications shall be the Professional Engineer who stamped and sealed the design plans. Any reference to the Geotechnical Engineer shall be the Geotechnical Engineer as defined above or the Geotechnical Engineer who completed certain aspects of the pond design.
- All inspections, tests, supporting data, reports, and certifications shall be provided to the City of Rockville Department of Public Works (DPW) and shall be sealed by the Geotechnical Engineer. Daily inspection reports, if requested by the City, can be provided without being immediately sealed by the Geotechnical Engineer. These reports shall be compiled, reviewed, sealed and then submitted to DPW at a later date as agreed upon by the City.
- The Geotechnical Engineer shall approve all fill materials that are used for the project. The Geotechnical Engineer shall obtain samples of proposed fill materials and perform all required testing to determine that fill materials are in conformance with this plan.
- The Geotechnical Engineer shall provide a report that certifies the subgrade preparation and fill/backfill placement are in conformance with this plan. The certification applies to all fill, backfill, and subgrade operations subject to this plan as detailed in Note #1, including utility trenches. When constructing new roadway pavement this certification report shall be provided prior to the placement of Graded Aggregate Base (GAB). All other certifications shall be provided as requested by the City.
- All fill and/or backfill material shall be free from organics, frozen material, rocks/stones greater than one and a half inches in any dimension, waste metal products, unsightly debris, toxic material, or other deleterious materials shall be a minimum of 105 pounds per cubic foot for the maximum dry density according to AASHTO T-180, Method C, and shall not have a liquid limit greater than 30 nor a plasticity index greater than six according to ASTM D 4318. All other materials shall meet the requirements stated in Category 900 of the latest edition of the Maryland State Highway Administration (MSHA) Standard Specifications for Construction and Materials.
- Compact the material that is one foot below the top of subgrade to at least 92 percent of the maximum dry density per AASHTO T-180. Compact the top one foot to at least 97 percent of the maximum dry density. When necessary, add water or dry the layer in order to compact to the required density. Generally the material shall be within two percent of the optimum moisture content but may be outside of this range if approved by the Geotechnical Engineer.
- Fill and backfill materials must completely fill all spaces under and adjacent to the structure or pipe. For Stormwater Management structures, the Applicant shall scarify each lift with a sheepsfoot roller or claw to a minimum depth of two-inches prior to placing the next lift. The Applicant shall scarify materials parallel with the centerline of the dam core and perpendicular to the principal spillway. Bedding shall be provided in accordance with details indicated on the construction drawings. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four-feet, measured horizontally, to any part of a structure. Under no circumstances shall the Applicant drive equipment over any part of a corrugated metal pipe unless there is a compacted fill of 24-inches or greater over the structure or pipe.
- At a minimum, compaction tests shall be completed for every lift of fill or backfill. The testing frequency shall be at least once per 150 linear feet of trench or once per 1,500 square feet of fill. At a minimum, there shall be at least one compaction test per lift and a least two compaction tests per day. The Geotechnical Engineer shall supply DPW with certified compaction test results, including certification of pipe bedding subgrade and fill subgrade.
- Prior to placing any roadway fill on existing grades (original grade after topsoil has been stripped, fill prepared by others outside of this plan or fill not prepared under the supervision of the Geotechnical Engineer), scarify the minimum top eight-inches of soil material. Compact this layer to the compaction requirements in these Notes. Proof-roll this compacted layer using a fully loaded dump truck (minimum 20 ton payload capacity). The Geotechnical Engineer shall inspect the proof-rolling and determine if the subgrade is acceptable or if there are areas that require remediation. Subgrade areas that fail proof-rolling shall be remediated to the satisfaction of the Geotechnical Engineer by either of the following methods:
  - Scarifying, moisture conditioning, and re-compaction of the subgrade materials.
  - Undercutting soft of unsuitable areas of subgrade and backfilling with compacted select borrow (MSHA Section 916).
  - Undercutting of soft or unsuitable areas of subgrade and placing a layer of geotextile covered by # MSHA 5.57 coarse aggregate (Table 901A).DPW may approve an alternate approach for soil remediation/improvement if it is recommended and sealed by the Geotechnical Engineer.

- Except when specified, do not place layers exceeding eight-inches un-compacted depth. Place the material in horizontal layers across the full width of the embankment. Perform all rolling in a longitudinal direction along the embankment. Begin at the outer edges and progress towards the center. Vary the travel paths of traffic and equipment over the width of the embankment to aid in obtaining uniform compaction.
- Uniformly grade areas to a smooth surface, free of irregular surface changes. Grade and prepare the subgrade section to the lines, grades, cross sections and/or elevations shown on the plans. At all times, maintain the subgrade surface in such condition as to readily drain.

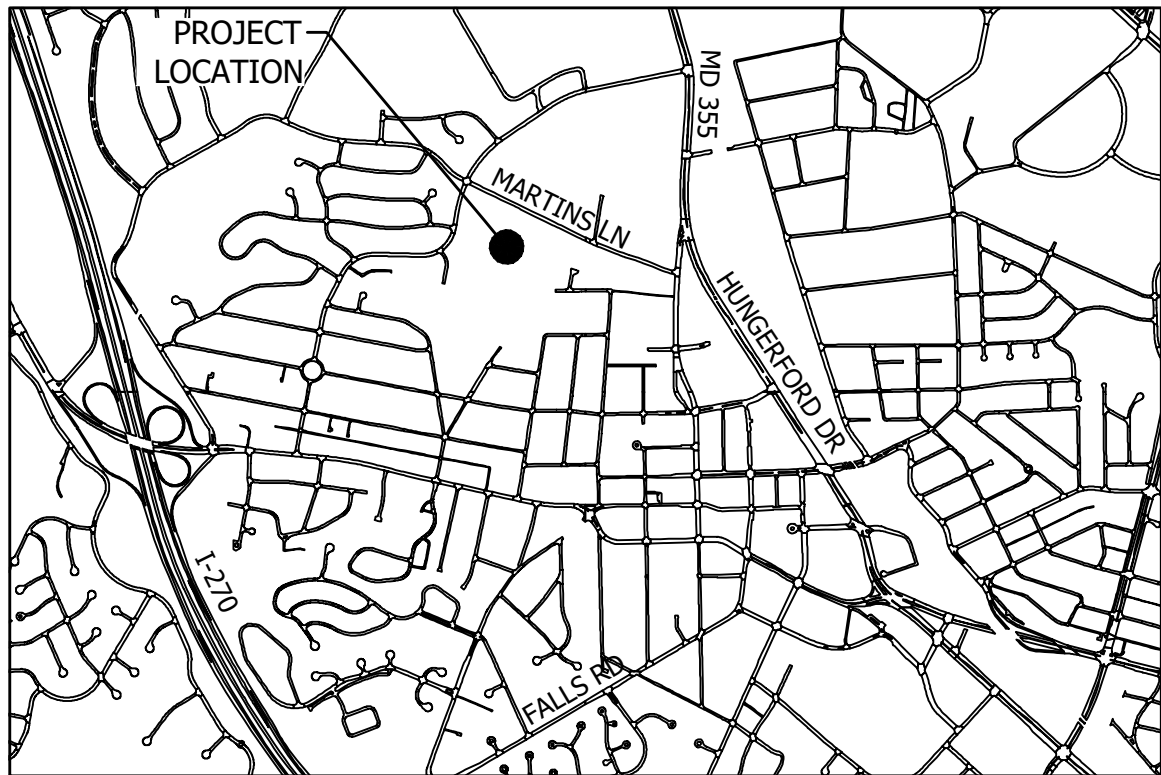
- Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice. Vehicular and equipment traffic shall be distributed across the prepared surface in such a manner as to prevent disturbance. Repair any damage to the prepared subgrade to the satisfaction of the Geotechnical Engineer. The Geotechnical Engineer must approve the storage or stockpiling of heavy loads on a roadway subgrade.
- Unsuitable existing fill, soft or loose natural soils, organic material, and rubble shall be stripped to approved grades as determined by the Geotechnical Engineer.
- Protect all structures and utilities from any damage in the handling, processing or compacting of embankment or backfill material. Exercise caution near arches, retaining walls, culverts and utility trenches to prevent undue strain or movement. The Geotechnical Engineer may require the use of specially selected material adjacent to structures to protect against damage. Do not use rock greater than one and a half inches in any dimension adjacent to structures.
- When placing and compacting embankment on hillslides or against existing embankments, continuously bench the slopes where the slope is steeper than 4:1 when measured at right angles to the roadway or embankment centerline. Perform the benching operation as the embankment is constructed in layers. Maintain a bench width of at least five-feet. Begin each horizontal cut at the intersection of the original ground and the vertical sides of the previous cut. If the material cut from the benches meets fill requirements, compact this material along with the new embankment material.
- When placing fill over existing pavement, thoroughly break up, scarify, or remove the pavement as specified or as directed by the Geotechnical Engineer.
- Prior to the placement of asphalt pavement, proof-roll the compacted graded aggregate base (GAB) layer using a fully loaded dump truck (minimum 20 ton payload capacity). The Geotechnical Engineer shall inspect the proof-rolling and determine if the GAB is acceptable or if there are areas that require remediation. GAB areas that fail proof-rolling shall be remediated to the satisfaction of the Geotechnical Engineer by either of the following methods:
  - Scarifying, moisture conditioning, and re-compaction of the GAB materials.
  - Undercutting soft of unsuitable areas of GAB and replacing with compacted GAB.DPW may approve an alternate approach for GAB remediation/improvement if it is recommended and sealed by the Geotechnical Engineer. The Geotechnical Engineer shall provide a sealed approval of the GAB prior to placement of asphalt. DPW may accept an oral or email approval while the final approval and reports are being compiled and completed.

### GENERAL NOTES

(THESE NOTES DO NOT SUPERCEDE CITY OF ROCKVILLE GENERAL NOTES)

- TOPOGRAPHY SURVEY PERFORMED BY KCW. DATED SEPTEMBER 2022 AND UPDATED JUNE 2023.
- THE HORIZONTAL DATUM OF THIS SURVEY IS MARYLAND STATE PLANE (NAD83/91).
- THE VERTICAL DATUM OF THIS SURVEY IS NAVD 88
- THE LOCATION OF UNDERGROUND UTILITIES IS BASED ON AVAILABLE RECORDS. CONTRACTOR TO VERIFY IN FIELD.
- THERE IS NO MAPPED FLOODPLAIN ASSOCIATED WITH THIS SITE. PER FEMA FLOOD INSURANCE RATE MAP NUMBER 24031C03330, DATED SEPT. 29, 2006.
- DETAIL DRAWINGS AND SCHEDULES DESCRIBE CONSTRUCTION AT GIVEN AREAS. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL UTILIZE EQUIVALENT CONSTRUCTION METHODS IN ALL AREAS NOT DETAILED.
- ALL NOTES ON DRAWINGS SHALL BE ASSUMED AS TYPICAL, UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS.
- IT SHALL BE THE DUTY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS GIVEN ON THE DRAWINGS AND TO REPORT TO THE ENGINEER ANY ERROR OR INCONSISTENCY WITH THE ACTUAL CIRCUMSTANCES IN THE FIELD BEFORE COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ITEMS REQUIRED TO PROVIDE A SITE CLEAR OF OBSTRUCTIONS (ABOVE & BELOW GRADE) AND GRADED TO SPECIFIED ELEVATIONS.
- ALL BIDDERS: THE CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIM/HERSELF WITH THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED PRIOR TO SUBMITTING BID.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL SITE SUB-CONTRACTORS/BIDDERS WITH FULL AND COMPLETE SETS OF ALL CIVIL DRAWINGS AND SPECIFICATIONS FOR THEIR USE IN PREPARING BIDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DELAYS AND COSTS ARISING DURING CONSTRUCTION FROM BIDS BASED UPON INCOMPLETE SETS OF SITE BID DOCUMENTS.
- PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE CONTRACTOR FOR TOPSOIL (SEE SHEET C-410) AND TECHNICAL SPECIFICATIONS. IF ON-SITE MATERIALS DO NOT MEET REQUIREMENTS OF TOPSOIL, COORDINATE WITH CITY OF ROCKVILLE REGARDING TILLING-IN OF CERTIFIED COMPOST TO ON-SITE SOILS IN ORDER TO MEET SPECIFICATION.
- ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN AND AMONG THE CONSTRUCTION DOCUMENTS OR DOUBT ABOUT THEIR MEANING, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR DIRECTION BEFORE PROCEEDING WITH WORK. IF AMBIGUITIES EXIST, THE BETTER QUALITY AND GREATER QUANTITY OF WORK SHALL BE BID UPON AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED BY THE OWNER IN WRITING.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL TRADE PERMITS AND PAY FEES ASSOCIATED WITH SAID PERMITS.
- ALL WORK ASSOCIATED WITH THE CITY OF ROCKVILLE PUBLIC WORKS PERMIT SHALL BE PERFORMED BY A WSSC LICENSED CONTRACTOR IN ACCORDANCE WITH WSSC REGULATIONS.
- CLARK | AZAR & ASSOCIATES WILL RELEASE CAD BASE FILES OF THE SITE CIVIL DRAWINGS TO THE SUCCESSFUL CONTRACTOR WITHOUT FEE AFTER A RELEASE IS SIGNED. NO CAD FILES WILL BE RELEASED PRIOR TO AWARD OF CONTRACT.

ROCKVILLE POOL - SMP SHEET INDEX		
SMP #	SHEET TITLE	SHEET NUMBER
1	SMP COVER SHEET	C-003
2	STORMWATER MANAGEMENT PLAN	C-301
3	DRAINAGE AREA MAP	C-302
4	STORMWATER MANAGEMENTDETAILS	C-305
5	PLANTING PLAN	L410
6	PLANTING DETAILS	L411



1 VICINITY MAP  
 SCALE: 1" = 200'

### CITY OF ROCKVILLE AS-BUILT REQUIREMENTS:

- ALL ENTITIES WHO CONSTRUCT PUBLIC WATER OR SEWER LINES, STORM DRAINAGE SYSTEMS, BIKE PATHS, SIDEWALKS OR STREETS TO BE MAINTAINED BY THE CITY OF ROCKVILLE MUST SUBMIT AN "AS-BUILT" SET OF CONSTRUCTION DRAWINGS FOR APPROVAL AS A PART OF THE CITY'S ACCEPTANCE PROCESS. ADDITIONALLY, ENTITIES CONSTRUCTING ANY STORMWATER MANAGEMENT OR STREAM RESTORATION FACILITIES MUST SUBMIT AN "AS-BUILT" SET OF CONSTRUCTION DRAWINGS. THE INITIAL SUBMITTAL SHALL BE THREE (3) SETS OF RED-LINED MARKED UP PRINTS, WHICH SHOULD BE DELIVERED TO THE DEPARTMENT OF PUBLIC WORKS COUNTER AT CITY HALL (ATTN: DON JACKSON, ENGINEERING TECHNICIAN). THIS SUBMITTAL SHALL INCLUDE RECORDED COPIES OF ANY PUBLIC EASEMENTS REQUIRED WITH THE PROJECT.
- THE AS-BUILT DRAWINGS SHALL CLEARLY SHOW ANY CHANGES OR VARIATIONS FROM THE APPROVED DESIGN. HORIZONTAL VARIATIONS GREATER THAN 1.0 FOOT SHOULD BE SHOWN DIMENSIONAL OR THROUGH PUT STATIONS. HORIZONTAL VARIATIONS GREATER THAN 1.0 FOOT SHOULD BE SHOWN DIMENSIONAL OR THROUGH PUT STATIONS. VERTICAL ELEVATION VARIATIONS GREATER THAN 0.1FEET SHALL BE PROVIDED FOR ALL SHOWN DESIGN ELEVATIONS. A BENCHMARK ELEVATION AND BENCHMARK DESCRIPTION AND LOCATION SHALL ALSO BE PROVIDED ON EACH PLAN SHEET.
- AS-BUILT PLANS FOR A SURFACE SWM FACILITY SHALL INCLUDE THE FOLLOWING ADDITIONAL INFORMATION.
  - LENGTH, WIDTH, SLOPE INFORMATION AND DEPTH OR CONTOURS (1 FOOT INTERVALS) OF THE POND AREA ALONG WITH A VERIFICATION OF THE ORIGINAL DESIGN VOLUME.
  - A BENCHMARK ON THE RISER, INLET HEADWALL, OR OTHER APPROVED LOCATION.
- REVISED DESIGN COMPUTATIONS VERIFYING THE FUNCTIONALITY OF THE POND. COMPUTATIONS SHALL BE SUBMITTED DIRECTLY TO THE DPW PROJECT ENGINEER, ALONG WITH AN ADDITIONAL PAPER COPY OF THE AS-BUILT PLANS.
- THE GRADING/STORAGE VOLUMES MUST BE APPROVED BY DPW PRIOR TO LANDSCAPING/PLANTING. ALL PLANTINGS MUST BE ADDED TO THE AS-BUILT PLANS AFTER PLANT INSTALLATION. AS-BUILT PLANS WILL NOT BE APPROVED WITHOUT REQUIRED PLANTINGS.
- NOTE: AS-BUILT DATA, WHICH SHOWS THAT THE CONSTRUCTED FACILITY VARIES FROM THE ORIGINAL DESIGN STORAGE ELEVATIONS BY GREATER THAN OR EQUAL TO 10%, WILL HAVE TO BE CORRECTED (REGRADED) PRIOR TO SUBMISSION FOR REVIEW UNLESS STORAGE IS VERIFIED. ALL CONSTRUCTED FEATURES NOT PREVIOUSLY APPROVED ON THE ORIGINAL CONSTRUCTION DRAWINGS MAY HAVE TO BE MODIFIED AT THE CITY'S DISCRETION.
- ALL AS-BUILT INFORMATION SHALL BE BLOCKED IN AND SHOWN ON THE ORIGINAL CONSTRUCTION DRAWINGS AND SHALL BE BLOCKED IN AS THUS 386.25 .
- THE CITY'S INSPECTOR AND PROJECT ENGINEER WILL REVIEW THE AS-BUILT INFORMATION. THE DESIGN ENGINEER WILL BE NOTIFIED TO SUBMIT MYLARS FOR AS-BUILT APPROVAL ONCE ALL CHANGES HAVE BEEN SATISFACTORILY SHOWN. THE AS-BUILT INFORMATION SHALL PREFERABLY BE SHOWN ON THE ORIGINAL CONSTRUCTION DRAWINGS (I.E. THE ORIGINAL MYLARS WITH THE PERMIT APPROVAL STAMP AND ORIGINAL P.E. SEAL). PLACING AS-BUILT INFORMATION UPON A SCANNED IMAGE OR OTHER REPRODUCTION OF THE ORIGINAL CONSTRUCTION DRAWINGS IS ACCEPTABLE SO LONG AS THE QUALITY, INTEGRITY, AND LEGIBILITY OF THE ORIGINAL DRAWINGS ARE SUBSTANTIALLY PRESERVED WITHOUT UNIQUE COMPROMISE. AS-BUILT DRAWINGS WILL BE SCANNED BY THE CITY FOR ARCHIVING. SO BOTH THE AS-BUILT AND ORIGINAL INFORMATION MUST BE SUFFICIENTLY DISCERNIBLE. THE AS BUILT PLAN SET SHALL BE SUBMITTED TO DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION (ATTN: DON JACKSON, ENGINEERING TECHNICIAN) FOR SIGNATURE AND SHALL CONTAIN THE SAME RED-LINED INFORMATION AS APPROVED IN THE AS-BUILT REVIEW. NO PAPER PRINTS, PAPER OR MYLAR SEPIAS WILL BE ACCEPTED.

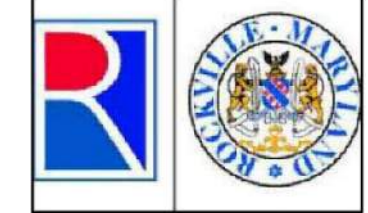
### RELATED REQUIRED PERMITS

To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects

IT IS THE RESPONSIBILITY OF PERMITEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT					
TYPE OF PERMIT	RECD	NOT RECD	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain District		<input checked="" type="checkbox"/>			
WATERWAYS&WETLAND(S)		<input checked="" type="checkbox"/>			
a. Corps of Engineers		<input checked="" type="checkbox"/>			
b. MDE		<input checked="" type="checkbox"/>			
b. MDE Water Quality Certification		<input checked="" type="checkbox"/>			
MDE Dam Safety		<input checked="" type="checkbox"/>			
COR Public Works		<input checked="" type="checkbox"/>			
COR Stormwater Management	<input checked="" type="checkbox"/>				
COR Sediment Control	<input checked="" type="checkbox"/>				
N.P.D.E.S Notice of INTENT	<input checked="" type="checkbox"/>		XXXXXX		DATE FILED TBD
FEMA LOMR (Required Post Construction)		<input checked="" type="checkbox"/>			
OTHERS (Please List): Forest Conservation Amendment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			APPROVAL DATE

June 2017

BEFORE BEGINNING CONSTRUCTION  
 CONTACT  
 "MISS UTILITY"  
 WWW.MISSUTILITY.NET  
 OR  
 1-800-257-7777  
 OR 811  
 AT LEAST 48 HOURS  
 PRIOR TO EXCAVATION



DEPARTMENT OF PUBLIC WORKS  
 CITY OF  
 ROCKVILLE  
 111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED \_\_SL\_\_  
 DRAFTED \_\_MS\_\_  
 CHECKED \_\_JA\_\_

DESIGN PLAN APPROVAL  
 PWK# \_\_\_\_\_ SCP# \_\_\_\_\_  
 SMP# 2024-00016 REVIEWED BY \_\_\_\_\_  
 DIRECTOR OF PUBLIC WORKS APPROVAL DATE \_\_\_\_\_

AS BUILT PLAN APPROVAL  
 CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE \_\_\_\_\_

SMP2024-00016

STORMWATER MANAGEMENT COVER SHEET

ROCKVILLE SWIM & FITNESS CENTER  
 OUTDOOR RECREATION POOL RENOVATIONS  
 355 MARTINS LANE PARCEL 630

Election District No. 4 City of Rockville, Maryland

DATE SUBMITTED: 2/7/2024  
 SCALE 1" = 200'  
 SHEET NO. 1 OF 6  
 FILE #

BID SET 02/23/2024



# ROCKVILLE SWIM AND FITNESS CENTER OUTDOOR RECREATION POOL RENOVATIONS SCP2024-00002

## EROSION AND SEDIMENT CONTROL NOTES

November 2016


- The Applicant must obtain inspection and approval by the City of Rockville Department of Public Works (DPW) at the following points:
  - At the required preconstruction meetings.
  - Following installation of sediment control measures and prior to any other land disturbing activity.
  - During the installation of a sediment basin or stormwater management structure at the required inspection points (see Inspection Checklist on plan). Notification prior to commencing construction is mandatory.
  - Prior to removal or modification of any sediment control devices.
  - Prior to final acceptance.
- All erosion control measures are to be constructed and maintained in accordance with applicable published standards and specifications and the most current "Maryland Standards and Specifications for Soil Erosion and Sediment Control."
- The Applicant shall construct all erosion and sediment control measures per the approved plan and construction sequence, shall have them inspected and approved by DPW prior to beginning any other land disturbances, shall ensure that all runoff from disturbed areas is directed to the sediment control devices and shall not remove any erosion or sediment control measures without prior permission from DPW.
- Any request for changes to the approved sediment control plan or sequence of construction must be submitted to the DPW Sediment Control Inspector and approved before implementing changes. Major changes will require a plan revision.
- The Applicant shall protect all points of construction ingress and egress to prevent the deposition of materials onto traversed public thoroughfare(s). All materials deposited onto public thoroughfare(s) shall be removed immediately.
- The Applicant shall inspect daily and maintain continuously in effective operating condition all erosion and sediment control measures until such time as they are removed with prior permission from the DPW Sediment Control Inspector.
- All sediment basins, trap embankments, swales, perimeter dikes and permanent slopes steeper or equal to 3:1 shall be stabilized with sod, seed and anchored straw mulch or other approved stabilization measures, within seven calendar days of establishment. All areas disturbed outside of the perimeter sediment control system must be minimized and stabilized immediately. Maintenance must be performed as necessary to ensure continued stabilization. Restabilization or overseeding will be required, if necessary.
- The Applicant shall apply sod, seed and anchored straw mulch, or other approved stabilization measures to all disturbed areas within seven (7) calendar days after stripping and grading activities have ceased on that area. Maintenance shall be performed as necessary to ensure continued stabilization. Other active construction areas that are not being actively graded (i.e. noise for construction vehicles within a site) may be required to be stabilized at the direction of the inspector. Stockpiles, which have not been used for seven (7) calendar days, shall be stabilized through the application of sod, seed, and anchored straw mulch, or other approved stabilization methods.
- Prior to removal of sediment control measures, the Applicant shall stabilize all contributory disturbed areas using sod or an approved permanent seed mixture with required soil amendments and an approved anchored mulch. Wood filter mulch may only be used in seeding season to promote sheet flow drainage. Areas brought to finished grade during the seeding season shall be permanently stabilized within seven (7) calendar days of establishment. When property is brought to finished grade during the months of November through February, and permanent stabilization is found to be impractical, approved temporary seed and straw anchored mulch shall be applied to disturbed areas. The final permanent stabilization of such property shall be completed prior to the following April 15.
- The site work, materials, approved Sediment Control and Stormwater Management Plans, and any required test reports shall be available, at the site for inspection by duly authorized officials of the City of Rockville.
- Surface drainage flows over uninstalled cut and fill slopes shall be controlled by either preventing drainage flows from traversing the slopes or by installing mechanical devices to lower the water downslope without causing erosion. Dikes shall be installed and maintained at the top of cut or fill slopes until the slope and drainage area to it are fully stabilized, at which time they must be removed and final grading done to promote sheet flow drainage. Mechanical devices must be provided at points of concentrated flow where erosion is likely to occur.
- Permanent swales or other points of concentrated water flow shall be stabilized with sod or seed with approved erosion control matting or by other approved stabilization measures.
- Temporary sediment control devices shall be removed, with permission of DPW, within 30 calendar days following establishment of permanent stabilization in all contributory drainage areas. If establishment is not full and uniform as determined by the DPW Sediment Control Inspector, overseeding will be required. Stormwater management structures used temporarily for sediment control shall be converted to the permanent configuration within this time period as well.
- No permanent cut or fill slope with a gradient steeper than 3:1 will be permitted in lane maintenance areas. A slope gradient of up to 2:1 will be permitted in areas that are not to be maintained provided that those areas are indicated on the erosion and sediment control plan with a low-maintenance ground cover specified for permanent stabilization. Slope gradient steeper than 2:1 will not be permitted with vegetative stabilization.
- The Applicant shall install a splash block at the bottom of each downspout unless the downspout is connected by a drain line to an acceptable outlet.
- All water pumped from an excavation during construction shall be pumped either to sediment tanks and/or sediment traps. No water will be pumped to the storm drain system or swale. De-watering:

shall be performed in accordance with the most current Maryland Standards and Specifications for Soil Erosion and Sediment Control.

- For finished grading, the Applicant shall provide adequate gradients so as to: (1) prevent water from standing on the surface of lawns more than 24 hours after the end of a rainfall, except in designated drainage courses and swale flow areas which may drain as long as 48 hours after the end of a rainfall, and (2) provide positive drainage away from all building foundations or openings.
- Sediment traps or basins are not permitted within 20-feet of a building, which exists or is under construction. No building may be constructed within 20-feet of a sediment trap or basin.
- All inlets in non-sump areas shall have asphalt berms installed at the time of base paving to direct runoff to inlets.
- The DPW Sediment Control Inspector has the option of requiring additional sediment control measures, if deemed necessary.
- All trap elevations are relative to the outlet elevation, which must be on existing undisturbed ground.
- Vegetative stabilization shall be performed in accordance with the most current Maryland Standards and Specifications for Soil Erosion and Sediment Control.
- Temporary sediment trap(s) shall be cleaned out and restored to the original dimensions when sediment has accumulated to a point one-half the depth between the outlet crest and the bottom of the trap.
- Sediment removed from traps shall be placed and stabilized in approved areas in such a manner that it does not foul existing or proposed storm drainage systems or areas already stabilized. Sediment shall not be placed within a flood plain or wetland.
- All sediment basins and traps must be surrounded with a welded wire safety fence. The fence must be at least 42-inches high, have posts spaced no farther apart than eight feet, have mesh openings no greater than two-inches in width and four-inches in height with a minimum of 14 gauge wire. Safety fence must be maintained in good condition at all times.
- Off-site spoil or borrow areas must have approved sediment control plans.
- Protect all trees to be preserved during construction in accordance with the approved Forest Conservation Plan.
- The Applicant is responsible for all actions of contractor and subcontractors, including repairing damage to sediment control devices and existing infrastructure.
- The Applicant shall comply with all provisions of the NPDES Construction Discharge Permit. A copy of the permit and all required reports shall be available on site at all times.

## DESIGN AND QUANTITIES CERTIFICATION

I hereby certify that this plan has been prepared in accordance with the latest Maryland Standards and Specifications for Soil Erosion and Sediment Control and the Ordinance of the Rockville City Code. The estimated total amount of excavation and fill has been computed to be 410 cubic yards of excavation and 410 cubic yards of fill and the total area to be disturbed as shown on these plans has been determined to be 66,594 square feet of which 66,594 SF is onsite and 0 SF is in the adjacent right-of-way. The impervious area subject to Stormwater Management shown on this plan is 1.11 acres of which 1.11 ac. is on-site and 0 ac. is in the adjacent right-of-way.

  
Design Engineer  
JASON AZAR, VICE PRESIDENT  
Printed Name and Title

10/20/2023  
Signature Date  
31168  
P.E. Registration Number

## OWNER/DEVELOPER CERTIFICATION

I/We hereby certify that any clearing, grading, construction or development, or all of these, will be done pursuant to this plan and that Responsible Personnel involved in the construction project will have a certification of training at a Department of the Environment approved training program for the control of sediment and erosion before beginning the project and the applicable sediment control conditions and requirements of the City of Rockville and the State of Maryland and its agencies are hereby made part of this plan.

  
Signature  
TIMOTHY CHESNUTT, Director of Recreation and Parks  
Printed Name and Title

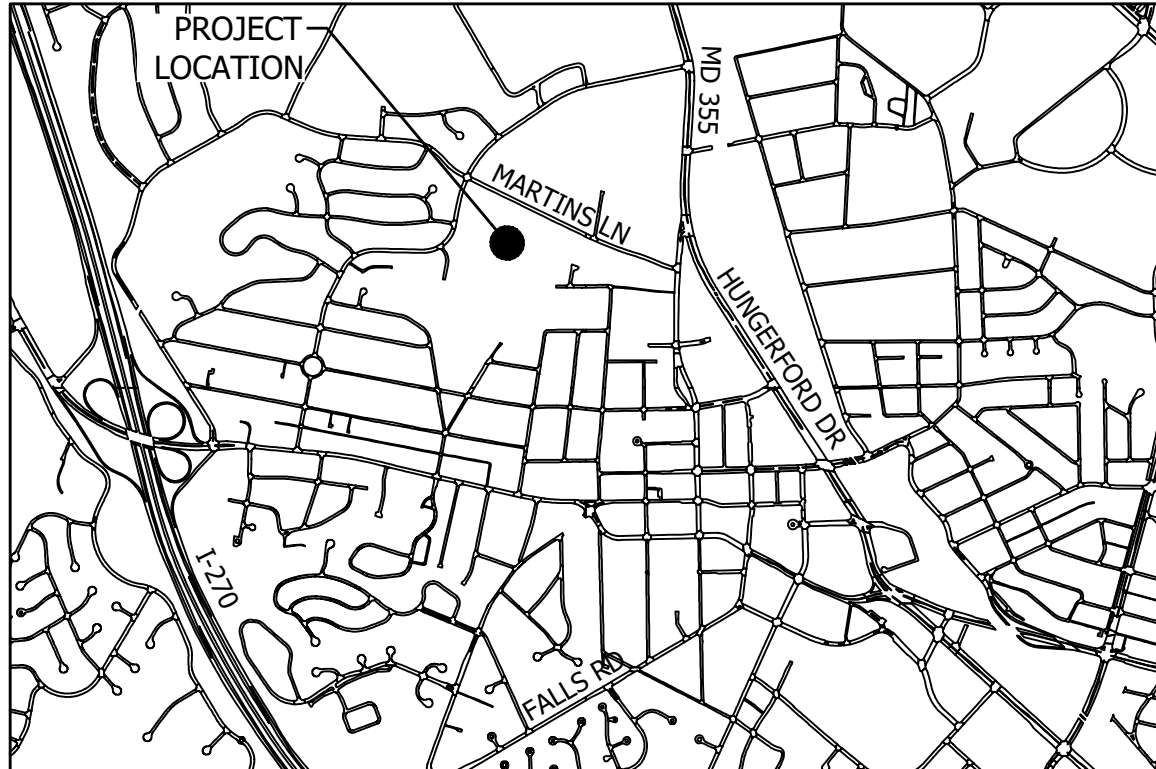
10/23/23  
Signature Date

ROCKVILLE POOL - SCP SHEET INDEX		
SMP #	SHEET TITLE	SHEET NUMBER
1	SCP COVER SHEET	C-004
2	SEDIMENT CONTROL PLAN	C-400
3	SEDIMENT CONTROL DETAILS	C-405
4	SEDIMENT CONTROL NOTES	C-410

## GENERAL NOTES

November 2016

- The Applicant is the entity for which the City of Rockville Department of Public Works (DPW) has issued a permit. For DPW projects where a permit is not applicable, the entity for which the City contract is issued shall be considered the Applicant in these notes. The Applicant is responsible for all contractors, agents, subcontractors, or other entities completing work under this permit and/or approved plan.
- The Applicant must arrange a pre-construction meeting prior to commencing any work. Provide at least 48 hours of notice to the following: City Project Inspector listed in the permit, City Forestry Inspector at 240-314-8713, if required by either a DPW and/or Forestry permit, or DPW Sediment Control Inspector at 240-314-8879, if required by permit.
- The Applicant must contact Miss Utility at 1-800-257-7777 or #811 or missutility.net so that utilities are marked prior to holding any pre-construction meeting.
- Information concerning existing underground utilities was obtained from available records. The Contractor must determine the exact location and elevation of existing utilities by digging test pits at the utility crossings well in advance of trenching. If clearance is less than shown on this plan, contact the Professional Engineer who stamped the design plans before proceeding with construction.
- Maintain a minimum one-foot vertical clearance between all City utilities crossing any other utility. Unless otherwise noted, maintain a five-foot horizontal clearance with between a City utility with any other utility or structure. The only exception is that there shall be a ten-foot horizontal clearance between City water and sewer mains.
- At the end of each day, all trenches shall be backfilled, all equipment secured, and the area left in a safe condition. Steel plates are allowed to remain no longer than seven days. Plates are to be notched (recessed) and pinned to the roadway. Plates must be large enough to allow a minimum of one-foot bearing on all four sides of the pavement surrounding the excavation. The steel plate requirements only apply to public streets.
- The public road utility patch shall be in accordance with City Standard Detail #60, or as shown on the plans. All trenches in public streets shall be filled with compacted Graded Aggregate Base (GAB) from below the pavement to the top of the pipe embedment zone or to a depth of five feet, whichever is less.
- DPW normal working hours are Monday through Friday, except holidays, from 7 a.m. to 5 p.m. The City observes the following holidays: New Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, Thanksgiving Friday, and Christmas Day, and all days of general and congressional elections throughout the State. The Contractor will not be permitted to close lanes or do any work that requires the services of the City forces, outside of the normal working hours, unless listed in the permit or authorized by DPW in writing. However, the Contractor, with verbal permission of DPW may be permitted to work outside of the normal work hours for clean-up activities or other such items that do not adversely impact traffic, residents or City services.
- Traffic must be maintained on all roadways within the construction area as directed by DPW. No lane closure shall be permitted between 7:00-9:00 A.M. or 3:30-6:00 P.M. Monday through Friday. An exception is that lane closures are permitted on secondary residential streets at any time during normal working hours. Deployment and design of all traffic control devices shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). If required, traffic control plans shall be reviewed and approved by the Chief of the Traffic and Transportation Division. DPW may suspend lane closure or other traffic controls at any time during, or in advance of, inclement weather events.
- Sheeting and shoring is the total responsibility of the Applicant. A Professional Engineer licensed in the State of Maryland shall seal these drawings. Provide three copies to DPW for informational purposes only.
- In addition to all City permits, the Applicant is responsible to ensure that all necessary Federal, State and/or Montgomery County approvals and/or permits have been obtained in association with this approved plan.
- Shop drawings must be prepared and sealed by a Professional Engineer licensed in the State of Maryland prior to fabrication. The Professional Engineer who sealed the design plans (but not the shop drawings) must approve the shop drawings for conformance to the approved design. Provide three copies of approved shop drawings to DPW prior to construction. Standard pre-cast structures previously approved by the Maryland State Highway Administration, Montgomery County and Washington Suburban Sanitation Commission do not require a shop drawing submission. Use actual field soils data for design of pipes and structures. All pipes and structures in paved areas shall be designed for HS-20 vehicle loading.
- Upon completion of construction, the Applicant shall provide three sets of red lined As-Built plans (24"x36") for review and approval by DPW. The drawings must contain the original approval signatures and Professional Engineer's seal and signature (a scanned image of the original mylar is acceptable). The As-Built shall be sealed by a Professional Engineer or Professional Surveyor, as appropriate and must be licensed by the State of Maryland. The seal shall note that it is only for the As-Built and shall include an as-built certification acceptable to DPW. Upon receipt of written approval, the Applicant shall provide approved As-Built mylar drawings along with the original mylars (with all original signatures) to DPW prior to the release of the permit.
- The Applicant must comply with the Montgomery County Noise Control Ordinance. Please refer to the Montgomery County Department of Environmental Protection at 240-777-7770, askdep@montgomerycountymd.gov, or www.montgomerycountymd.gov/DEP.



1 VICINITY MAP  
SCALE: 1" = 2000'

## GEOTECHNICAL NOTES

November 2016

- The Applicant shall be responsible for all subgrade inspection and soil compaction testing associated with any work within a City right-of-way, private property subject to a public access easement, or private property subject to City easement for public utilities or public improvements; and/or any work associated with a sediment control facility, or stormwater management practice. This work shall be completed by or under the supervision of a Professional Engineer licensed in the State of Maryland. For the purposes of these notes and associated approved plans, this Engineer shall be referred to as the Geotechnical Engineer and shall be an independent firm from the Applicant.
- Any plans subject to NCRS-MD Pond Code 378 Standards/Specifications, as shown on the plans, shall supersede these notes when these notes are less stringent or in case of conflict. Any reference to the Engineer in the 378 Standard/Specifications shall be the Professional Engineer who stamped and sealed the design plans. Any reference to the Geotechnical Engineer shall be the Geotechnical Engineer as defined above or the Geotechnical Engineer who completed certain aspects of the pond design.
- All inspections, tests, supporting data, reports, and certifications shall be provided to the City of Rockville Department of Public Works (DPW) and shall be sealed by the Geotechnical Engineer. Daily inspection reports, if requested by the City, can be provided without being immediately sealed by the Geotechnical Engineer. These reports shall be compiled, reviewed, sealed and then submitted to DPW at a later date as agreed upon by the City.
- The Geotechnical Engineer shall approve all fill materials that are used for the project. The Geotechnical Engineer shall obtain samples of proposed fill materials and perform all required testing to determine that fill materials are in conformance with this plan.
- The Geotechnical Engineer shall provide a report that certifies the subgrade preparation and fill/backfill placements are in conformance with this plan. The certification applies to all fill, backfill, and subgrade operations subject to this plan as detailed in Note #1, including utility trenches. When constructing new roadway pavement this certification report shall be provided prior to the placement of Graded Aggregate Base (GAB). All other certifications shall be provided as requested by the City.
- All fill and/or backfill material shall be free from organics, frozen material, rocks/stones greater than one and a half inches in any dimension, waste metal products, unsightly debris, toxic material, or other deleterious materials; shall be a minimum of 105 pounds per cubic foot for the maximum dry density according to AASHTO T-180, Method C, and shall not have a liquid limit greater than 30 nor a plasticity index greater than six according to ASTM D-4318. All other materials shall meet the requirements stated in Category 900 of the latest edition of the Maryland State Highway Administration (MSHA) Standard Specifications for Construction and Materials.
- Compact the material that is one foot below the top of subgrade to at least 92 percent of the maximum dry density per AASHTO T-180. Compact the top one foot to at least 97 percent of the maximum dry density. When necessary, add water or dry the layer in order to compact to the required density. Generally the material shall be within two percent of the optimum moisture content but may be outside of this range if approved by the Geotechnical Engineer.
- Fill and backfill materials must completely fill all spaces under and adjacent to the structure or pipe. For Stormwater Management embankments, the Applicant shall scarify each lift with a sheepsfoot roller or claw to a minimum depth of two-inches prior to placing the next lift. The Applicant shall scarify embankments parallel with the centerline of the dam core and perpendicular to the principal spillway. Bedding shall be provided in accordance with details indicated on the construction drawings. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four-feet, measured horizontally, to any part of a structure. Under no circumstances shall the Applicant drive equipment over any part of a corrugated metal pipe unless there is a compacted fill of 24-inches or greater over the structure or pipe.
- At a minimum, compaction tests shall be completed for every lift of fill or backfill. The testing frequency shall be at least once per 150 linear feet of trench or once per 1,500 square feet of fill. At a minimum, there shall be at least one compaction test per lift and a least two compaction tests per day. The Geotechnical Engineer shall supply DPW with certified compaction test results, including certification of pipe bedding subgrade and fill subgrade.
  - Scarifying, moisture conditioning, and re-compaction of the subgrade materials.
  - Undercutting soft of unsuitable areas of subgrade and backfilling with compacted select borrow (MSHA Section 916).
  - Undercutting of soft or unsuitable areas of subgrade and placing a layer of geotextile covered by # MSHA 57 coarse aggregate (Table 901A).
- Except when specified, do not place layers exceeding eight-inches un-compacted depth. Place the material in horizontal layers across the full width of the embankment. Perform all rolling in a longitudinal direction along the embankment. Begin at the outer edges and progress towards the center. Vary the travel paths of traffic and equipment over the width of the embankment to aid in obtaining uniform compaction.
- Uniformly grade areas to a smooth surface, free of irregular surface changes. Grade and prepare the subgrade section to the lines, grades, cross sections and/or elevations shown on the plans. At all times, maintain the subgrade surface in such condition as to readily drain.

## PROFESSIONAL CERTIFICATION:

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No. 31168, Expiration Date: 1/12/2025

JASON AZAR  
NAME



## THIS PLAN IS FOR EROSION AND SEDIMENT CONTROL ONLY

June 2017

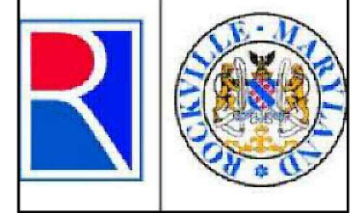


NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE
APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL					

CIVIL ENGINEER  
CLARK AZAR & ASSOCIATES, INC.  
20440 CENTURY BLVD., SUITE 220  
GERMANTOWN, MD 20874

OWNER/APPLICANT  
CITY OF ROCKVILLE  
RECREATION AND PARKS DEPARTMENT  
CONTACT: ADAM GOLDSTEIN  
agoldstein@rockvillemd.gov  
240-314-8752  
355 MARTINS LANE  
ROCKVILLE, MARYLAND 20850

BEFORE BEGINNING CONSTRUCTION  
CONTACT  
"MISS UTILITY"  
WWW.MISSUTILITY.NET  
OR  
1-800-257-7777  
OR 811  
AT LEAST 48 HOURS  
PRIOR TO EXCAVATION



DEPARTMENT OF PUBLIC WORKS  
CITY OF  
ROCKVILLE  
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED \_SL\_  
DRAFTED \_MS\_  
CHECKED \_JA\_  
DIRECTOR OF PUBLIC WORKS

DESIGN PLAN APPROVAL  
PWK# \_\_\_\_\_ SCP# 2024-00002  
SMP# \_\_\_\_\_ REVIEWED BY \_\_\_\_\_  
APPROVAL DATE \_\_\_\_\_

AS BUILT PLAN APPROVAL  
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE \_\_\_\_\_

SCP2024-00002

SEDIMENT CONTROL COVER SHEET

ROCKVILLE SWIM & FITNESS CENTER  
OUTDOOR RECREATION POOL RENOVATIONS  
355 MARTINS LANE PARCEL 630

Election District No. 4 City of Rockville, Maryland

DATE SUBMITTED:  
2/7/2024

SCALE

1"=2000'

SHEET

NO. 1

OF 4

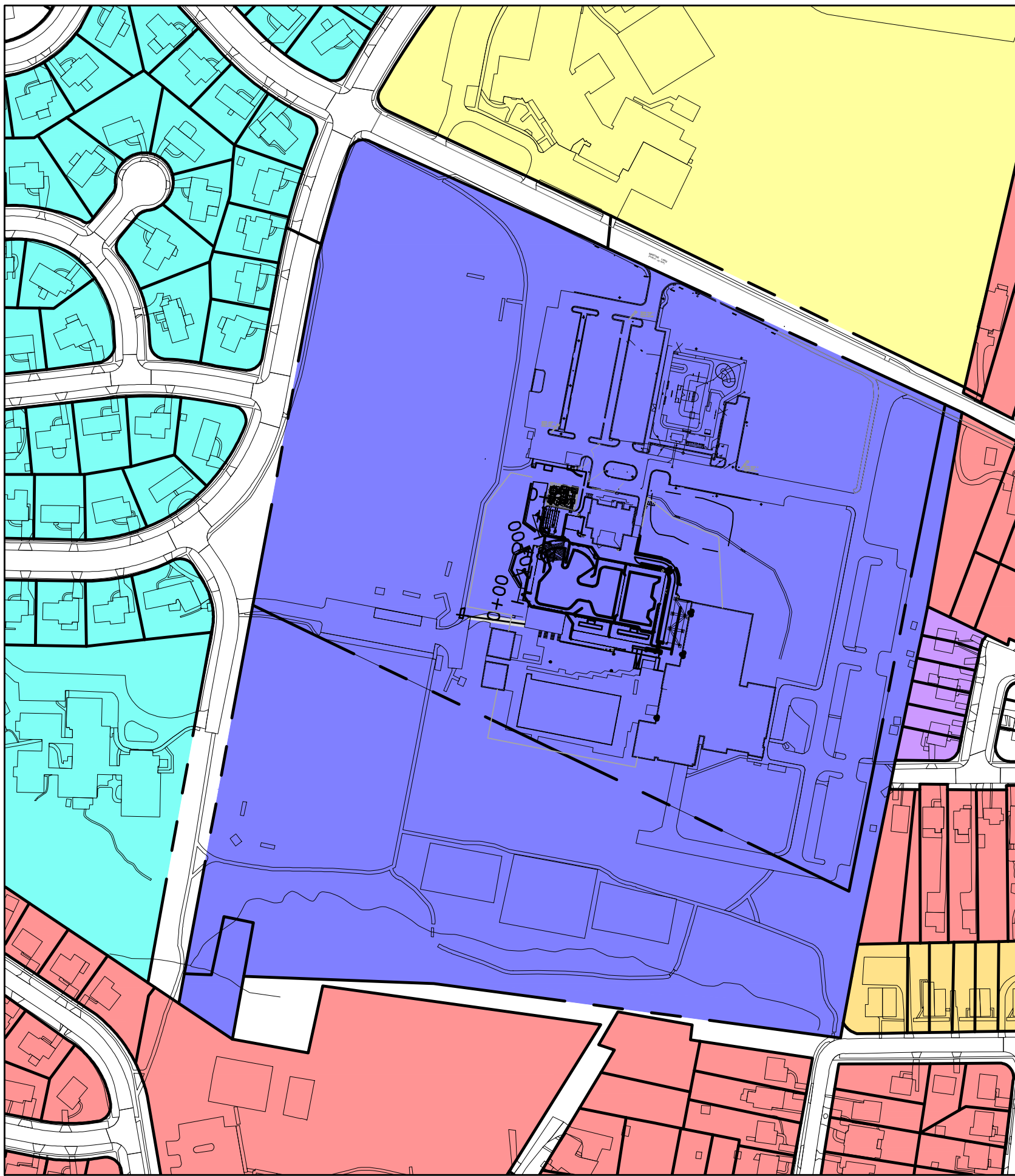
FILE #



# ROCKVILLE SWIM AND FITNESS CENTER

# OUTDOOR RECREATION POOL RENOVATIONS

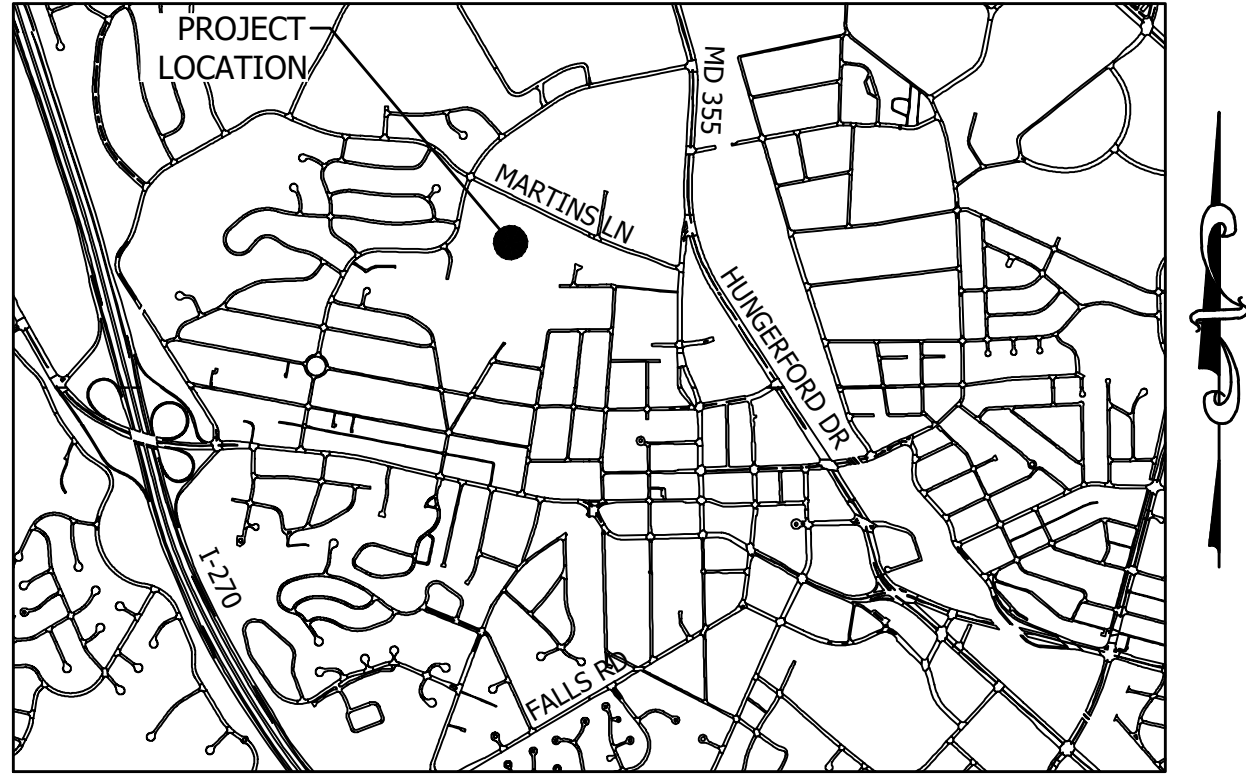
## MINOR SITE PLAN AMENDMENT STP2024-00466



1 LOCAL AREA PLAN  
SCALE: 1" = 200'

### ZONING LEGEND

	R-60
	R-30
	R-40
	RMD-25
	PARK
	R-200
	R-90



2 VICINITY MAP  
SCALE: 1" = 2000'

**PROPERTY ADDRESS**  
ROCKVILLE SWIM AND FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850

**OWNER:**  
MAYOR AND COUNCIL OF ROCKVILLE  
111 MARYLAND AVENUE  
ROCKVILLE, MD 20850  
c/o ADAM GOLDSTEIN, SUPERINTENDENT,  
ROCKVILLE SWIM AND FITNESS CENTER  
240-314-8752  
AGOLDSTEIN@ROCKVILLEMD.GOV

SHEET INDEX		
SHT #	SHEET TITLE	SHEET NUMBER
1	SITE PLAN AMENDMENT COVER SHEET	C-005
2	EX. CONDITIONS/DEMOLITION PLAN	C-100
3	SITE PLAN	C-200
4	PARKING EXHIBIT	C-201
5	SITE DETAILS	C-205
6	GRADING PLAN	C-210
7	RETAINING WALL PLAN	C-220
8	STORMWATER MANAGEMENT PLAN	C-300
9	UTILITY PLAN	C-500
10	OVERALL SITE PLAN	L100
11	REFERENCE PLAN	L101
12	ENLARGEMENT PLAN	L102
13	ENLARGEMENT PLAN	L103
14	LAYOUT PLAN	L104
15	SITE ACCESSIBILITY PLAN	L105
16	SECTIONS AND ELEVATIONS	L301
17	SECTIONS AND ELEVATIONS	L302
18	SECTIONS AND ELEVATIONS	L303
19	CONSTRUCTION DETAILS	L311
20	CONSTRUCTION DETAILS	L312
21	CONSTRUCTION DETAILS	L312A
22	CONSTRUCTION DETAILS	L313
23	CONSTRUCTION DETAILS	L314
24	CONSTRUCTION DETAILS	L315
25	CONSTRUCTION DETAILS	L316
26	PRODUCT SCHEDULE	L320
27	PLANTING PLAN	L401
28	PLANTING DETAILS	L411
29	LIGHTING PLAN	L601
30	LIGHTING PLAN	L602
31	LIGHTING PLAN	L603
32	DETAILS	AP-5

### LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



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LICENSE NO. 31168  
EXPIRATION DATE: 01/12/2025

ROCKVILLE SWIM  
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355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

## OUTDOOR RECREATION POOL RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

## SITE PLAN AMENDMENT COVER SHEET

## PERMIT SET

1	65% CONSTRUCTION DOCUMENT 06/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	PERMIT SET 12/08/2023

No.	Description	Date
Revisions		

Project Number: 22.00036.00  
Scale: 1" = 2000'  
Drawn By: SL  
Checked By: JA  
Date: 02/08/2024

Sheet No. C005



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ROCKVILLE SWIM  
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355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

EXISTING CONDITIIONS  
& DEMOLITION  
PLAN

PERMIT SET

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Revisions		

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Date: 02/08/2024

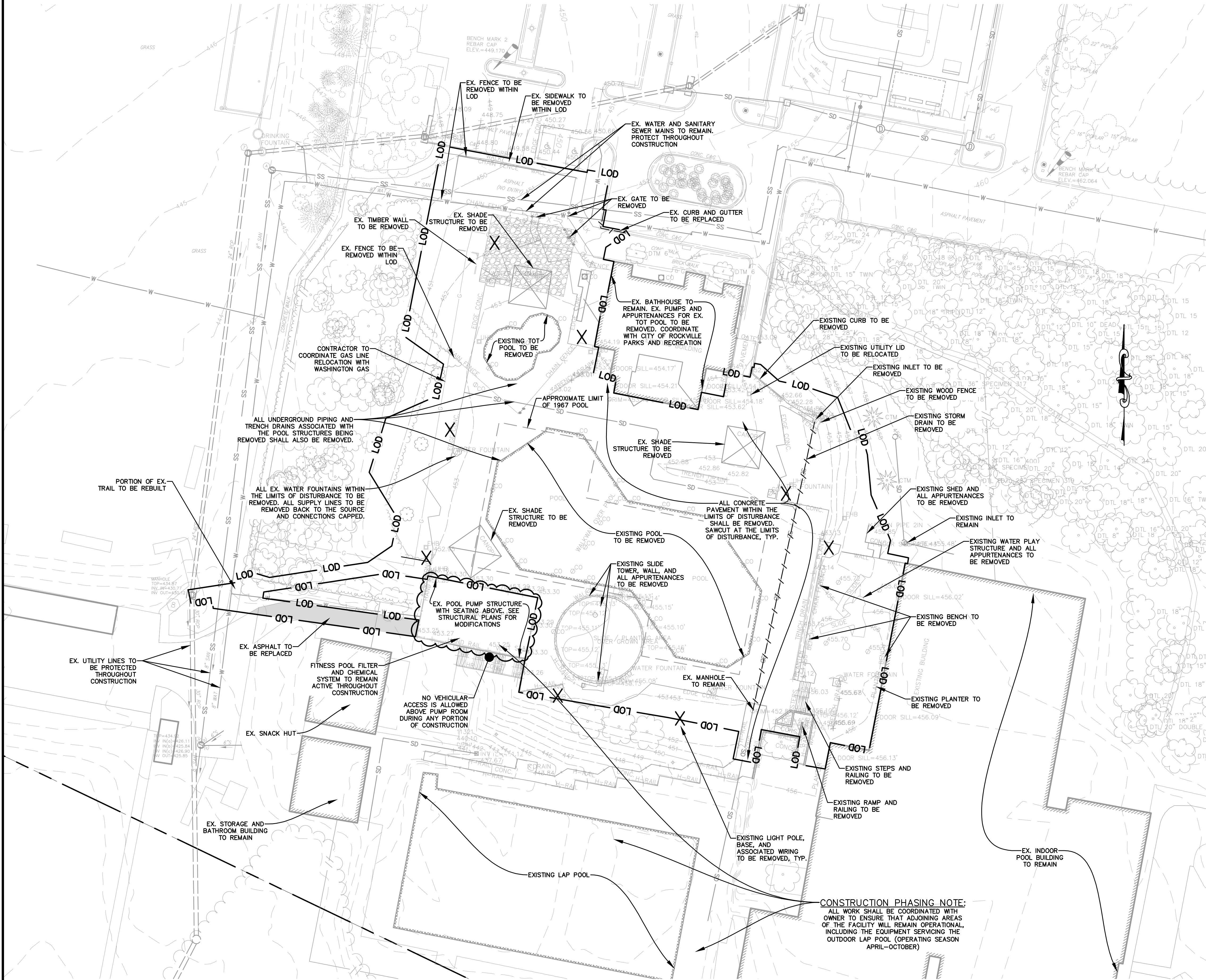
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GENERAL DEMOLITION NOTES

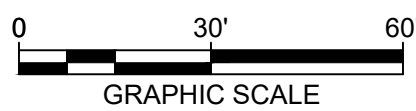
1. THE CONTRACTOR SHALL BE LIMITED TO STORING MATERIALS WITHIN THE LIMITS OF DISTURBANCE FOR THIS PROJECT.
2. ALL CONSTRUCTION ACTIVITY SHALL BE COORDINATED WITH THE CITY OF ROCKVILLE DEPARTMENT OF PARKS AND RECREATION.
3. CONTRACTOR SHALL PROVIDE REQUIRED SIGNAGE AND FLAGMEN ALONG ALL PUBLIC STREETS ADJACENT TO THE SITE, TO ASSURE THE SAFETY OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC IF REQUIRED. ALL TRAFFIC CONTROLS MUST BE IN ACCORDANCE WITH THE MOST CURRENT MUTCD AND MDMUTCD REQUIREMENTS AND WITH THE MOST CURRENT MONTGOMERY COUNTY DOT WORK ZONE TRAFFIC CONTROL STANDARDS AND DETAILS.
4. ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE MOST CURRENT APPLICABLE EPA, OSHA, AND MOSHA REGULATIONS AND MUST COMPLY WITH THE MOST CURRENT FEDERAL, STATE AND/OR LOCAL REGULATIONS AND CODES APPLICABLE TO SAID WORK.
5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK WITH REPRESENTATIVE UTILITY COMPANIES AND IMPLEMENTING REQUIRED UTILITY-RELATED WORK ACCORDINGLY.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR OWNERS REPRESENTATIVE IMMEDIATELY UPON ENCOUNTERING ANY HAZARDOUS MATERIALS. THE CONTRACTOR SHALL DOCUMENT SAME TO THE OWNER TO OBTAIN DIRECTION AS TO THE APPROPRIATE ACTION(S) TO BE TAKEN.
7. WHERE NEW WORK IS TO BE DONE, CARE SHALL BE TAKEN TO PROTECT ALL EXISTING ADJACENT SURFACES, STRUCTURES, AND AREAS FROM DAMAGE. ANY ITEM SHOWN TO REMAIN THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
8. CONTRACTOR SHALL BACKFILL EXCAVATED AREAS WITH ACCEPTABLE MATERIAL, AS SPECIFIED IN THE CONTRACT DOCUMENTS.
9. THE CONTRACTOR SHALL SHEET/SHORE AND BRACE ANY AND ALL STRUCTURES EXPOSED BY EXCAVATION/CONSTRUCTION IF REQUIRED AND SHALL CONTAIN ALL EXCAVATION WITHIN THE LIMITS OF DISTURBANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING IN ACCORDANCE WITH LOCAL, STATE, OR FEDERAL REQUIREMENTS.
10. IN THE EVENT THAT, DURING DEMOLITION OR CONSTRUCTION ACTIVITIES THE CONTRACTOR ENCOUNTERS ANY EXISTING UTILITIES/STRUCTURES NOT SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER FOR DIRECTIONS PRIOR TO PROCEEDING WITH ANY WORK.
11. ALL SAWCUTS ARE TO BE STRAIGHT AND EVEN, JAGGED EDGES WILL NOT BE ACCEPTED.
12. IT IS THE INTENT OF THE DEMOLITION PHASE TO PROVIDE A SITE CLEAR OF ALL PHYSICAL CONSTRUCTIONS THAT WILL IMPEDE NEW CONSTRUCTION. PHASE STORM DRAIN REMOVAL AND GRADING AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION.
13. THE DEMOLITION PLAN IS INTENDED TO PROVIDE AN OVERALL INTENT OF DEMOLITION THAT WILL BE PERFORMED THROUGHOUT CONSTRUCTION. SOME DEMOLITION IS PHASED AND PROGRESSES AS CONSTRUCTION CONTINUES. ALL DEMOLITION MUST BE PERFORMED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND THE SEQUENCE OF CONSTRUCTION.
14. PRIOR TO THE START OF CONSTRUCTION AN ON-SITE MEETING WITH THE CITY OF ROCKVILLE DEPARTMENT OF PARKS AND RECREATION, THE ROCKVILLE SWIM & FITNESS CENTER, AND THEIR GENERAL CONTRACTOR SHALL BE HELD TO DISCUSS TIMING OF OPERATIONS AND CONSTRUCTION COORDINATION.
15. BEFORE ANY EXCAVATION BELOW SUBGRADE IS ALLOWED, THE CONTRACTOR SHALL VERIFY THAT NO UTILITY PIPING IS IN THE VICINITY OF EXCAVATION.
16. THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL UNDERGROUND UTILITIES IN THE AREA OF PROPOSED WORK ARE LOCATED PRIOR TO COMMENCING CONSTRUCTION WORK. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.
17. THE CONTRACTOR IS ALSO RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES (NOT LOCATED BY MISS UTILITY) WITHIN THE PROPERTY AT THEIR EXPENSE. ALL UTILITIES SHOWN ON THE PLANS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE CONSIDERED APPROXIMATE. THE CITY OF ROCKVILLE WILL NOT LOCATE ANY OF THE EXISTING UNDERGROUND UTILITIES. ANY UTILITIES OR OTHER UNDERGROUND FACILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
18. WHEN AN ITEM IS STATED TO BE REMOVED, IT SHALL INCLUDE REMOVAL OF ANY AND ALL APPURTENANCES ABOVE OR BELOW GRADE ASSOCIATED WITH SAID ITEM.
19. ALL SIDEWALKS ARE TO BE REMOVED AT THE NEAREST WHOLE PANEL.
20. ANY MANHOLE, VALVE, OR OTHER UTILITY THAT IS TO REMAIN WITHIN THE LIMITS OF DISTURBANCE SHALL HAVE THEIR LIDS MODIFIED TO MEET PROPOSED GRADE.
21. BEFORE DEMOLITION BEGINS, CONTRACTOR SHALL HOLD MEETING WITH OWNER TO DETERMINE WHICH DEMOLITION ITEMS ARE TO BE SALVAGED TO THE OWNER. ALL DEMOLITION AND SALVAGING TO BE CONDUCTED BY THE CONTRACTOR. OWNER TO SPECIFY LOCATION FOR SALVAGED ITEMS
22. CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND CONSTRUCTION DOCUMENTS FROM ALL DISCIPLINES TO DEVELOP A THOROUGH UNDERSTANDING OF THE PROJECT, INCLUDING ANY SPECIAL CONDITIONS AND CONSTRAINTS BEFORE COMMENCING ANY WORK

DEMOLITION LEGEND

- X--- EXISTING STORM DRAIN TO BE REMOVED
- X EXISTING LIGHT POLE, BASE, AND ASSOCIATED WIRING TO BE REMOVED
- EX. ASPHALT TO BE REMOVED



CONSTRUCTION PHASING NOTE:  
ALL WORK SHALL BE COORDINATED WITH  
OWNER TO ENSURE THAT ADJOINING AREAS  
OF THE FACILITY WILL REMAIN OPERATIONAL,  
INCLUDING THE EQUIPMENT SERVICING THE  
OUTDOOR LAP POOL (OPERATING SEASON  
APRIL-OCTOBER)





LSG LANDSCAPE  
ARCHITECTURE

8240 GREENSBORO DRIVE  
SUITE 325  
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ROCKVILLE SWIM  
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ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

SITE PLAN

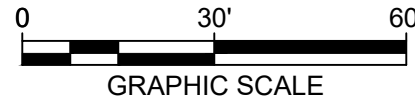
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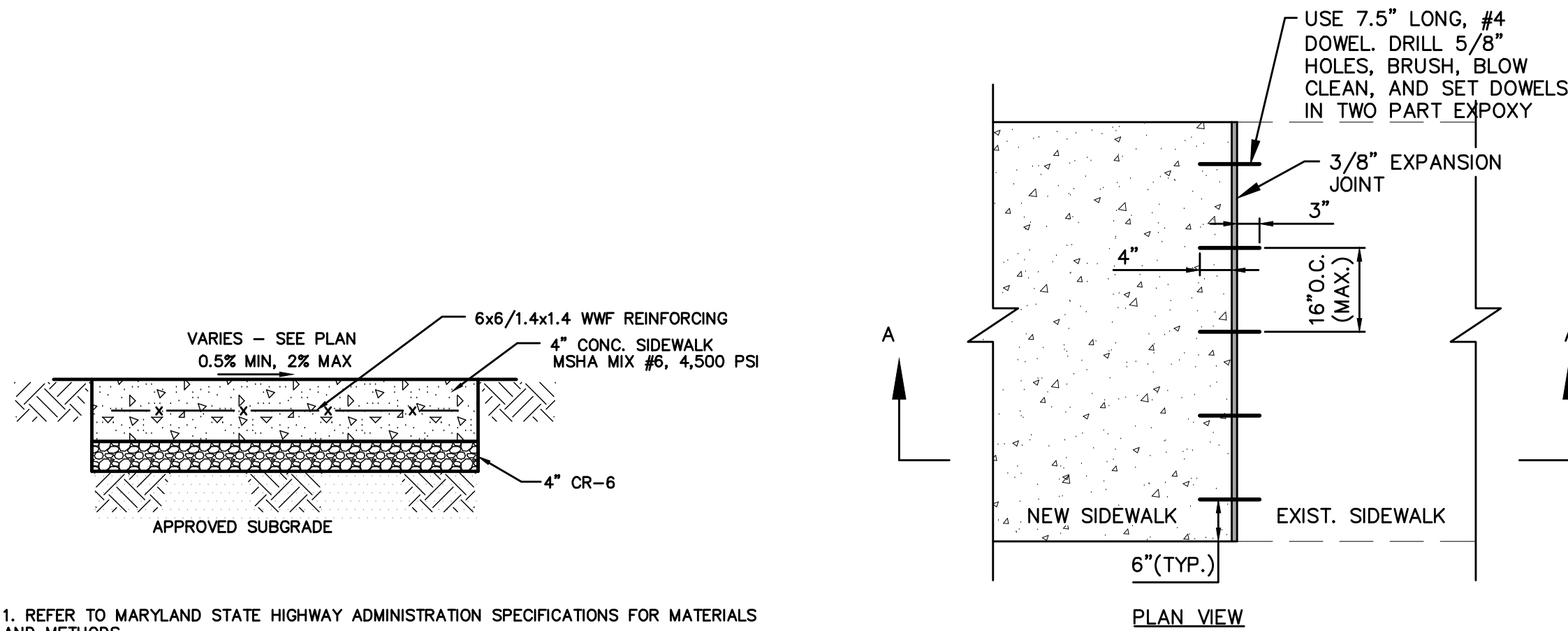
No.	Description	Date
Revisions		

Project Number: 22.00036.00  
Scale: 1" = 30'  
Drawn By: SL  
Checked By: JA  
Date: 02/08/2024

Sheet No. C-200



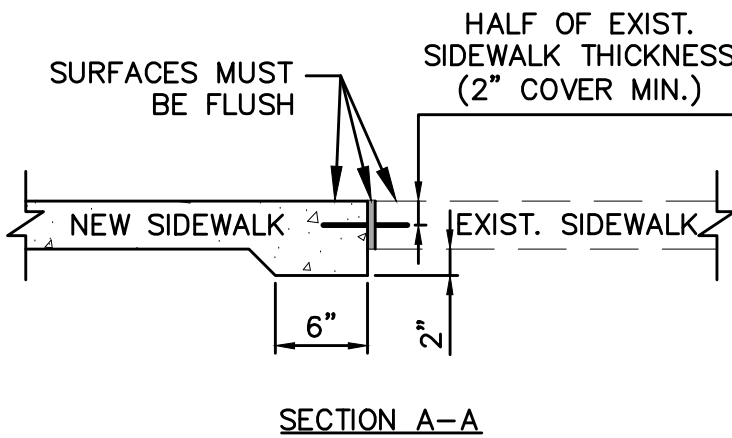




- REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS AND METHODS.
- EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND POLES, HYDRANTS, ETC. AND ALONG THE PROPERTY LINE WHEN THE SIDEWALK ABUTS ANY RIGID PAVEMENT, SIDEWALK OR STRUCTURE.
- EXPANSION JOINT MATERIAL SHALL HAVE A MAXIMUM LONGITUDINAL SPACING OF 100 FEET. THE MATERIAL SHALL BE 1/2-INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING, TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT COMPLYING WITH FS TT-5-00227.
- SCORE THE CONCRETE TO A DEPTH OF 1/3 THE SLAB THICKNESS TO PROVIDE WEAKENED PLANE TRAVERSE JOINTS AT 5'-0" INTERVALS, PARALLEL WITH AND PERPENDICULAR TO THE CURBING OR AS INDICATED ON THE SCORING PLAN.
- POOL TO BE BONDED AS REQUIRED BY CODE. SEE POOL PLANS FOR DETAIL AND LOCATIONS

NOTE: SEE POOL PLANS FOR CONCRETE POOL DECKING LIMITS. CONCRETE SIDEWALK SECTION SHALL BE USED FOR ALL CONCRETE WALKWAYS OUTSIDE THE POOL DECK LIMITS.

#### 1 TYPICAL CONCRETE SIDEWALK SECTION NOT TO SCALE



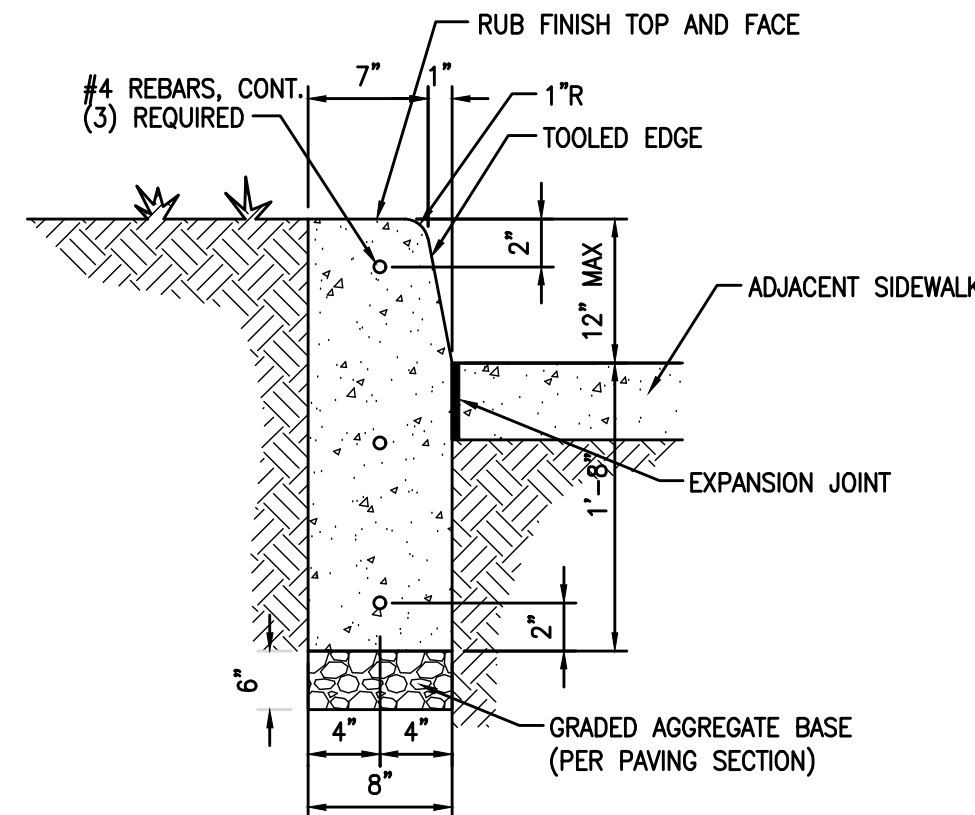
#### NOTES:

DOWELS SHALL BE GRADE 60, PER ASTM-A615.

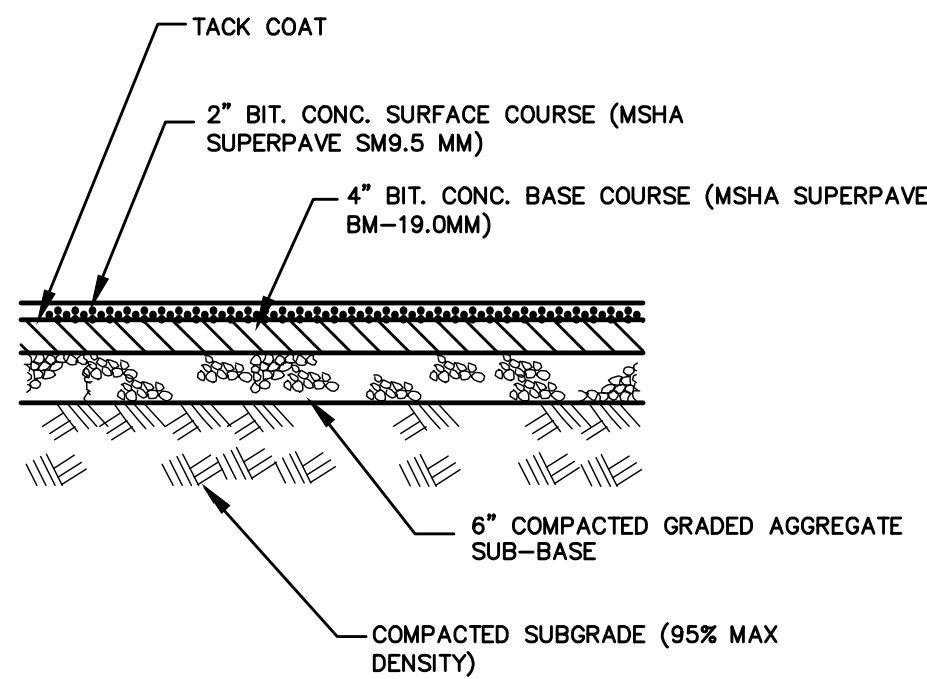
WHERE CONNECTION IS PROPOSED PER THE PLAN, ONLY IN RIGHT-OF-WAY, CONTRACTOR SHALL SAWCUT EXISTING SIDEWALK AT THE NEAREST JOINT AND CONNECT PER THIS DETAIL.

EXPANSION JOINT MATERIAL SHALL BE 3/8" PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT COMPLYING WITH ASTM-C920. SEALANT SHALL BE FLUSH WITH ADJOINING SURFACES. UNDER NO CIRCUMSTANCES SHALL AN ELEVATION DIFFERENCE BETWEEN THE TOP OF ADJOINING SURFACES AND SEALANT BE MORE THAN 1/4".

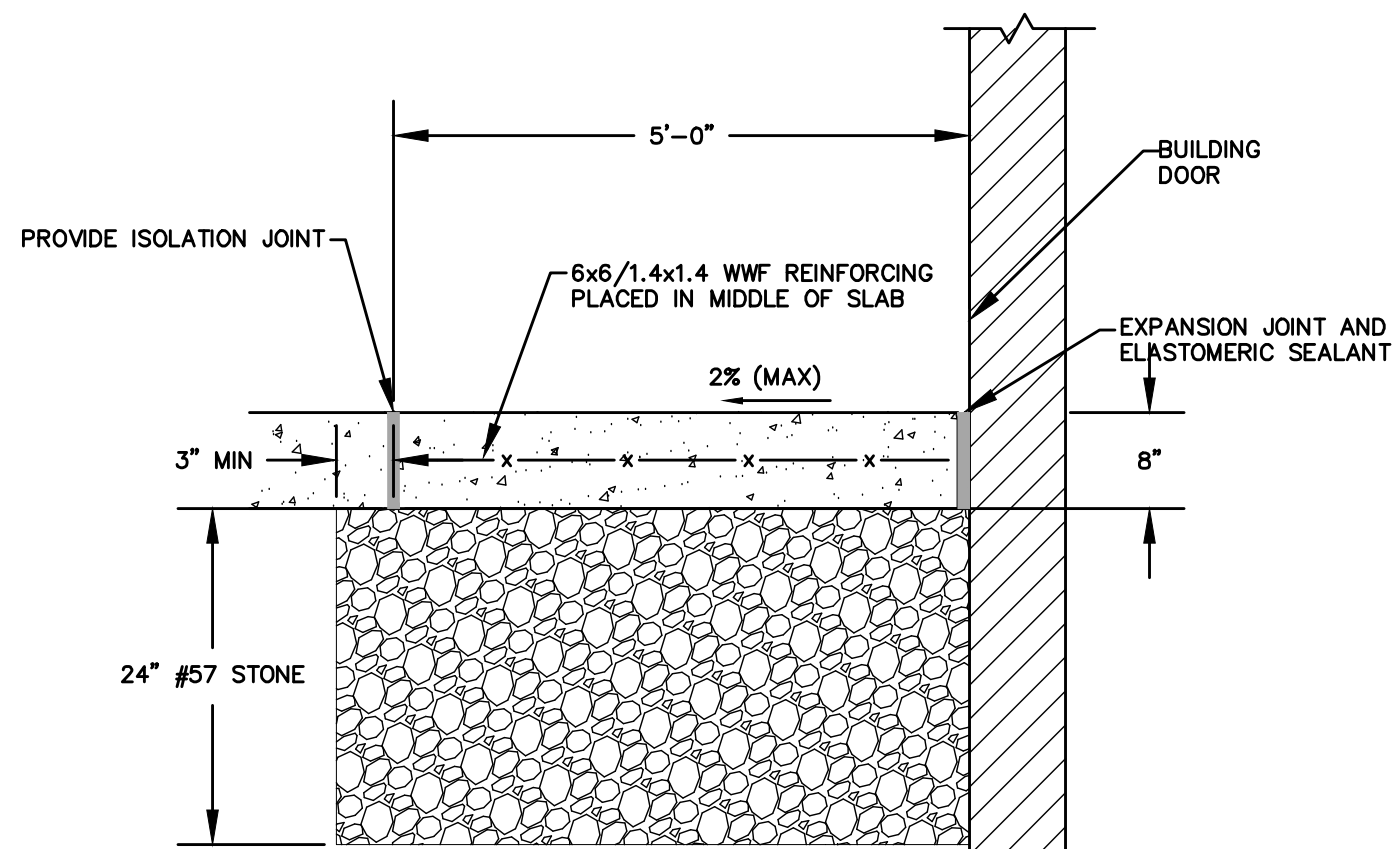
#### 2 CONNECTION TO EX. CONCRETE DETAIL NOT TO SCALE



#### 3 12" CONCRETE CURB NOT TO SCALE

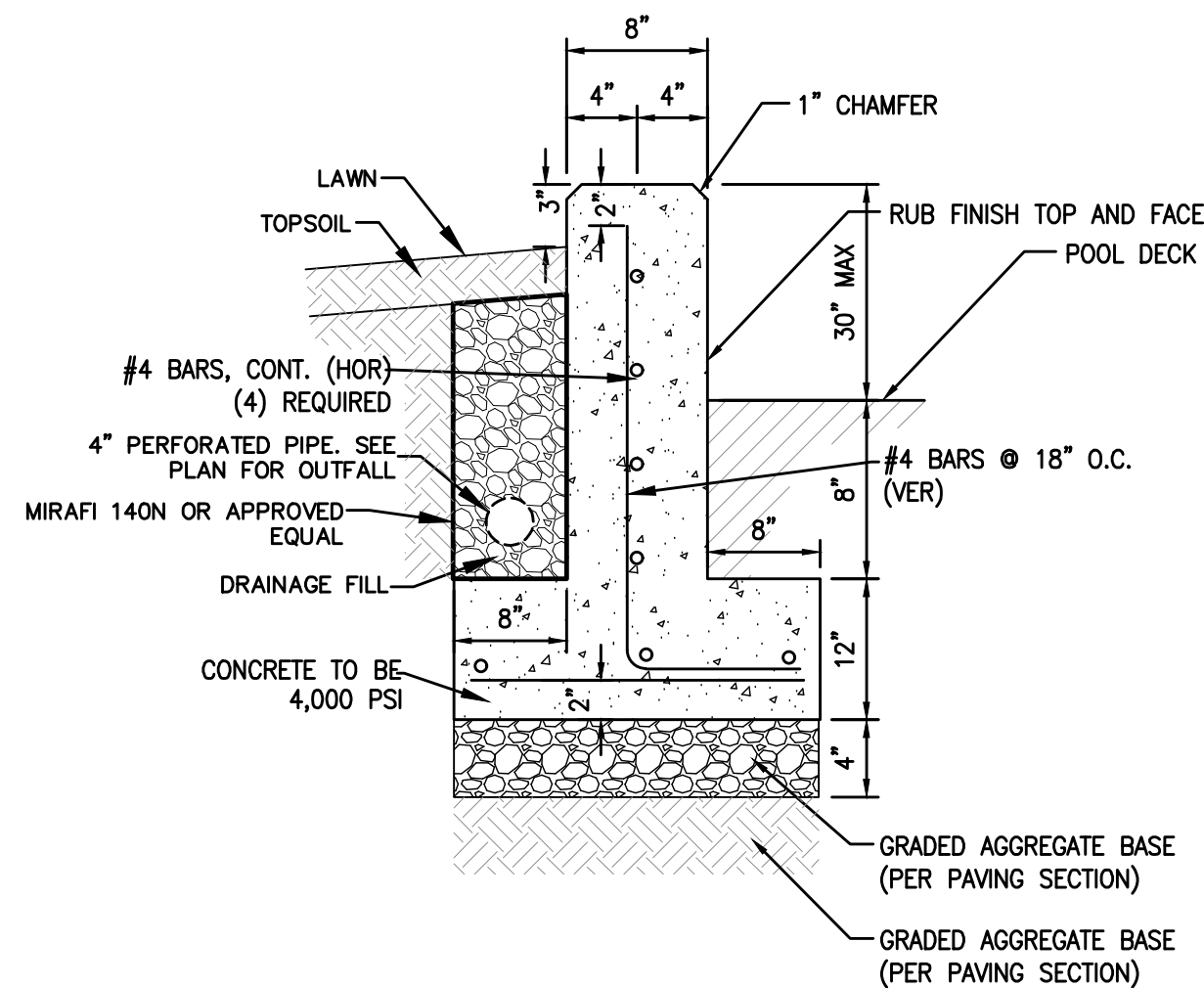


#### 5 PARKING LOT PAVING SECTION NOT TO SCALE

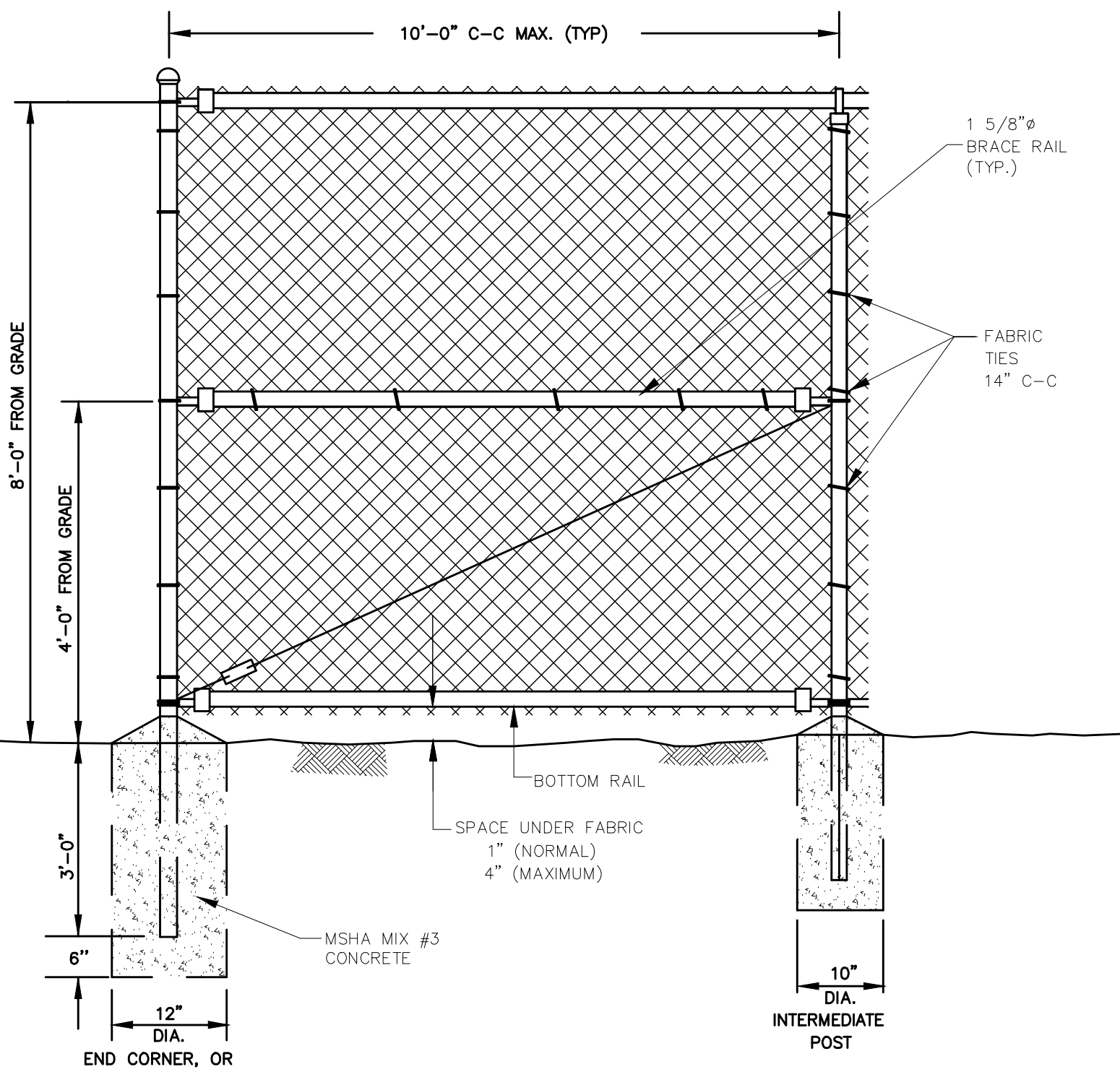


- NOTE:
- THIS DETAIL TYPICAL FOR 5' CLEAR OUTSIDE ALL DOORWAYS
  - INSTALL 1/2" EXPANSION JOINT WHERE SUPPORT MEETS ADJACENT SURFACE AND BUILDING. EXPANSION JOINT MATERIAL SHALL BE 1/2" PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING POLY-URETHANE ELASTOMERIC TYPE SEALANT COMPLYING WITH ASTM C 920 (NON-EXTRUDING).
  - THE SLOPE OF THE SIDEWALK AT THE DOOR SHALL NOT EXCEED 2% IN ANY DIRECTION

#### 4 DOORWAY LANDING DETAIL NOT TO SCALE

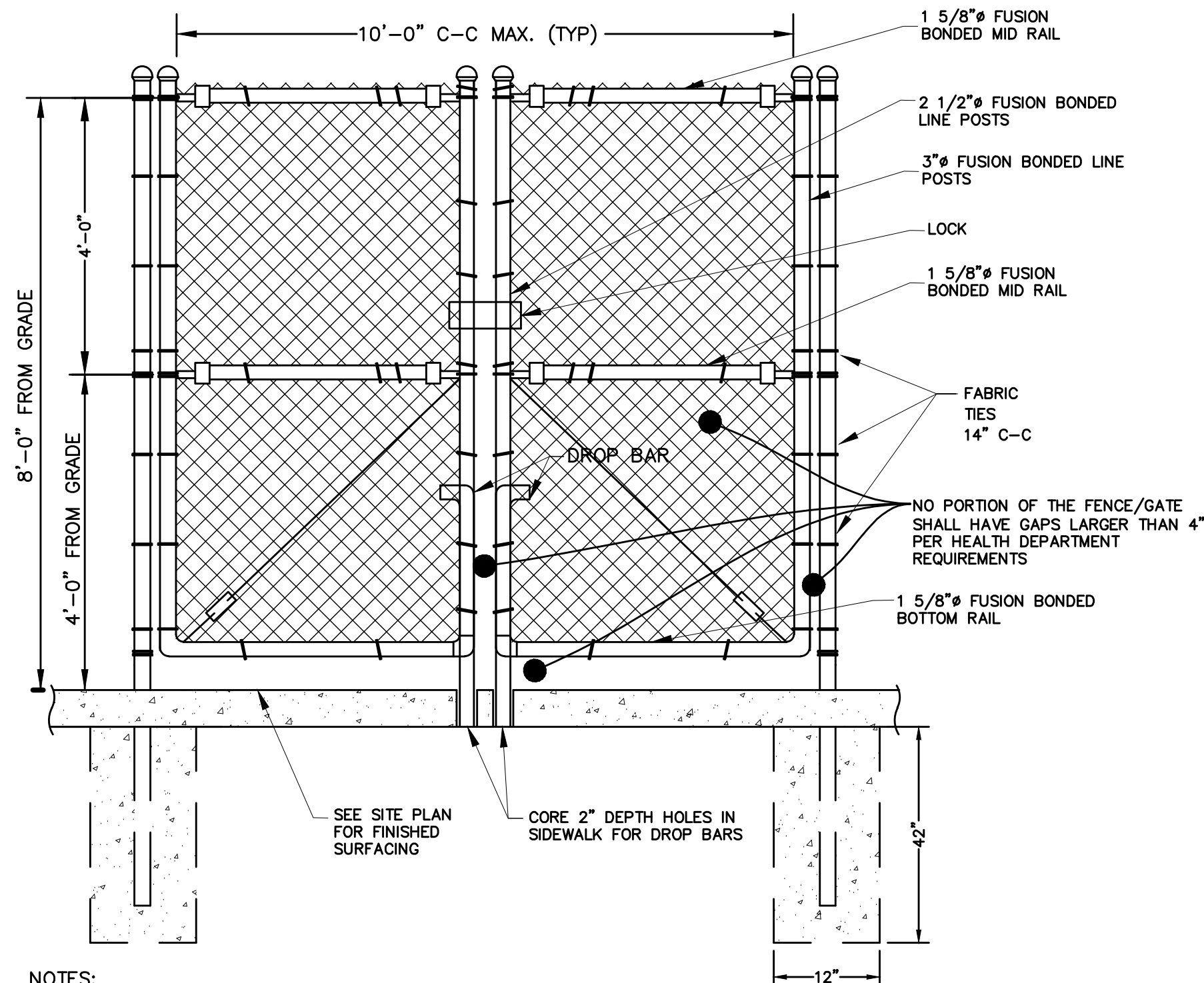


#### 6 LAWN RETAINING WALL DETAIL NOT TO SCALE



- NOTES:
- GATE FABRIC SHALL BE KNUCKLED ON TOP SELVAGES.
  - CONCRETE FOUNDATIONS AT GATES. SIZE RECOMMENDED BY GATE MANUFACTURER.
  - ALL FENCE, GATE POSTS & FRAMES TO BE GROUNDED.
  - ATTACH FENCE FABRIC TO LINE POSTS, TOP AND BOTTOM TENSION WIRES WITH THE WIRES.
  - ALL TYPE V-1 & V-2 GATES SHALL ALLOW 180° OPENING SWING.
  - POSTS, RAILS AND RODS TO BE INSTALLED INSIDE OF FENCE FABRIC.
  - MATERIALS TO MEET REQUIREMENTS OF AASHTO M181.
  - NO GAPS 4" OR GREATER WILL BE ACCEPTED FOR PERIMETER FENCE

#### 7 8' HIGH CHAIN-LINK FENCE DETAIL NOT TO SCALE



#### NOTES:

- GATE FABRIC SHALL BE KNUCKLED ON TOP SELVAGES.
- CONCRETE FOUNDATIONS AT GATES. SIZE RECOMMENDED BY GATE MANUFACTURER.
- ALL FENCE, GATE POSTS & FRAMES TO BE GROUNDED.
- ATTACH FENCE FABRIC TO LINE POSTS, TOP AND BOTTOM RAILS WITH THE WIRES.
- ALL TYPE V-1 & V-2 GATES SHALL ALLOW 180° OPENING SWING.
- POSTS, RAILS AND RODS TO BE INSTALLED INSIDE OF FENCE FABRIC.
- MATERIALS TO MEET REQUIREMENTS OF AASHTO M181.
- FOUNDATIONS TO BE SET 6" BELOW PROPOSED GRADE TO ALLOW FOR 6" MOW STRIP OVERTOP.
- ALL DIMENSIONS AND SIZES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO SUBMIT SHOP DRAWINGS CERTIFIED BY STRUCTURAL ENGINEER.

#### 8 8' TALL DOUBLE SWING GATE NOT TO SCALE

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LICENSE NO. 31168

EXPIRATION DATE: 01/12/2025

ROCKVILLE SWIM  
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355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

## OUTDOOR RECREATION POOL RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

### SITE DETAILS

### PERMIT SET

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3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	PERMIT SET 12/08/2023

No.	Description	Date
Revisions		

Project Number:	22.00036.00
Scale:	N.T.S.
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Checked By:	JA
Date:	02/08/2024

Sheet No. C-205



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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

GRADING PLAN

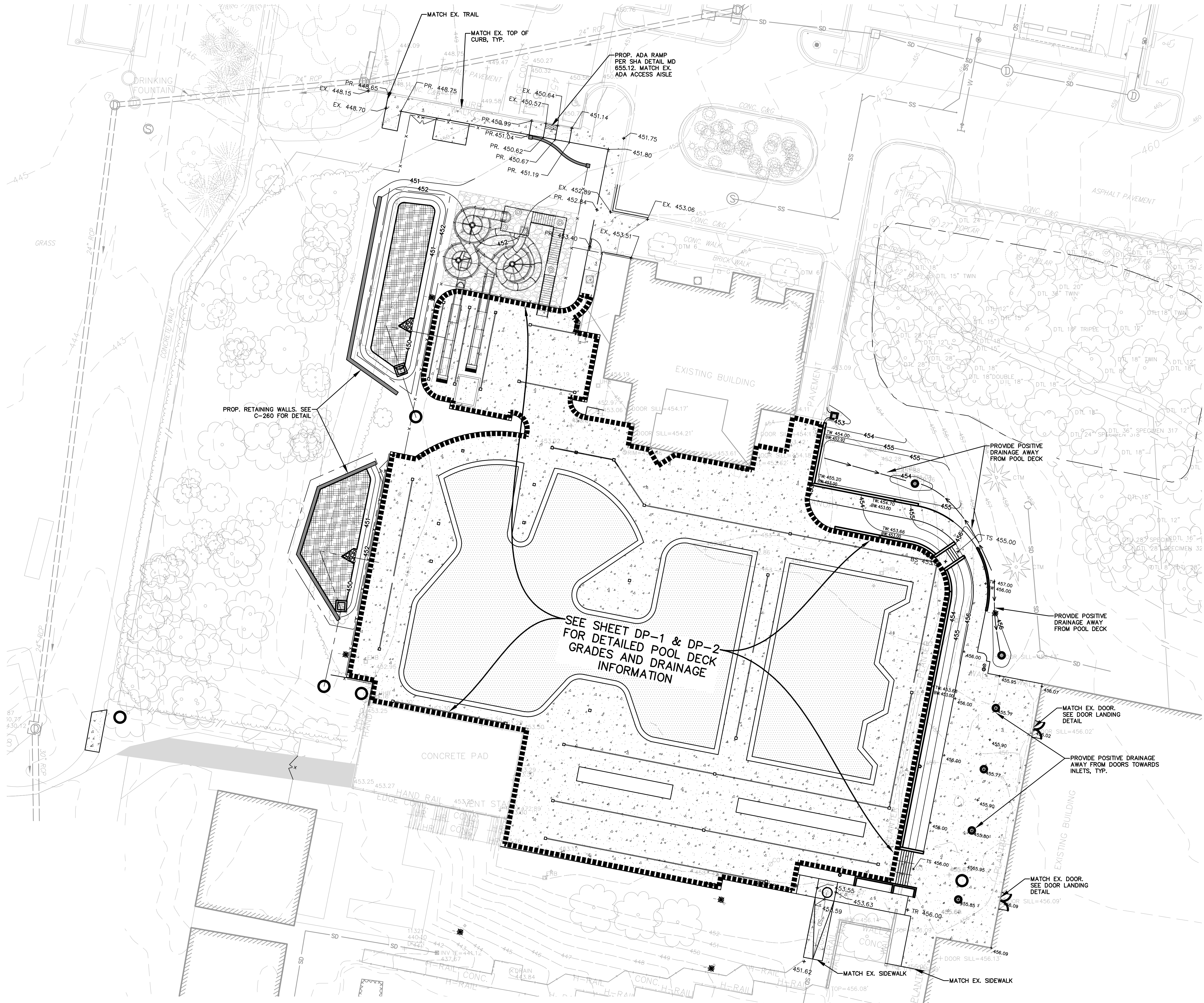
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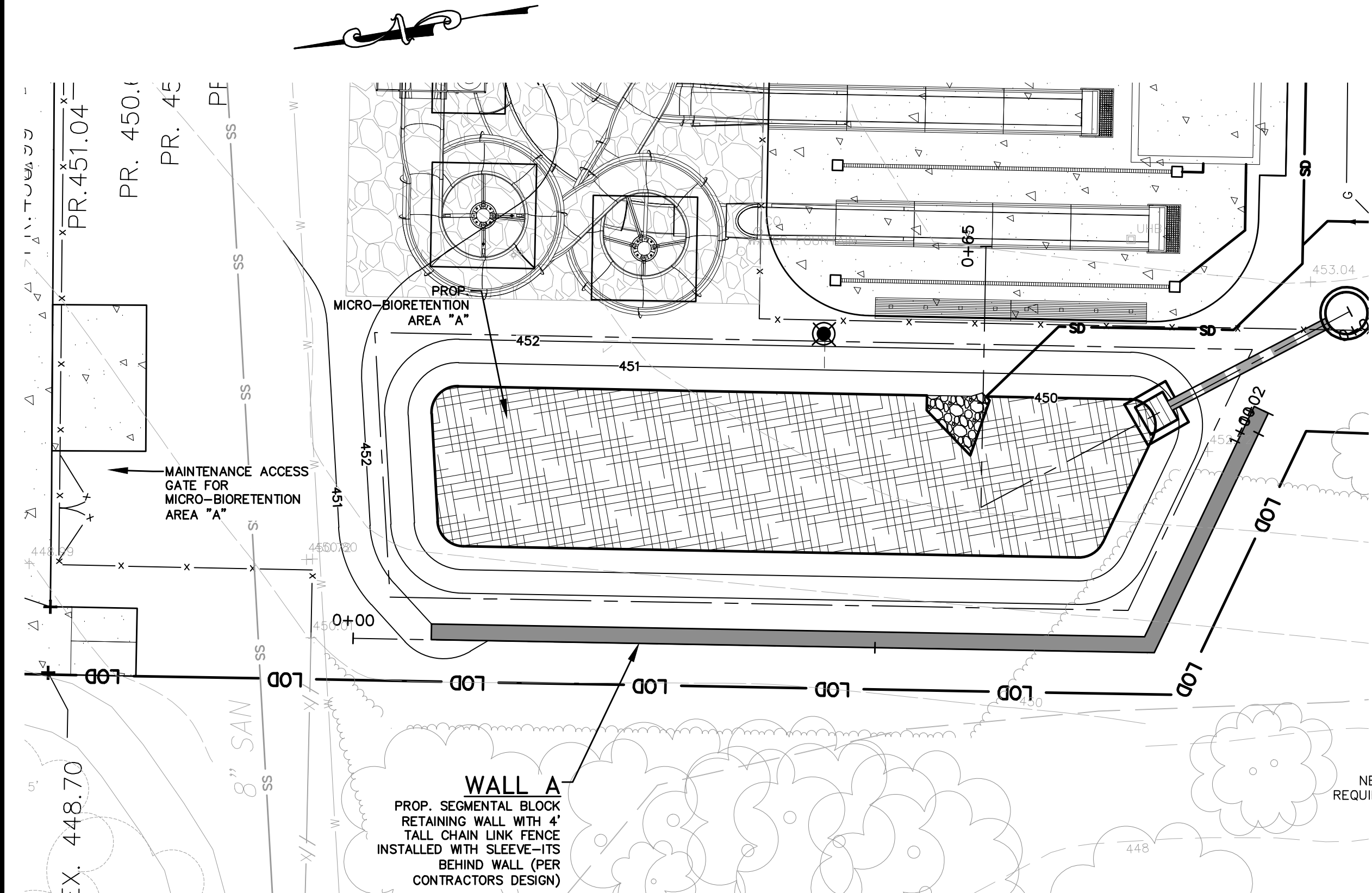
No.	Description	Date
Revisions		

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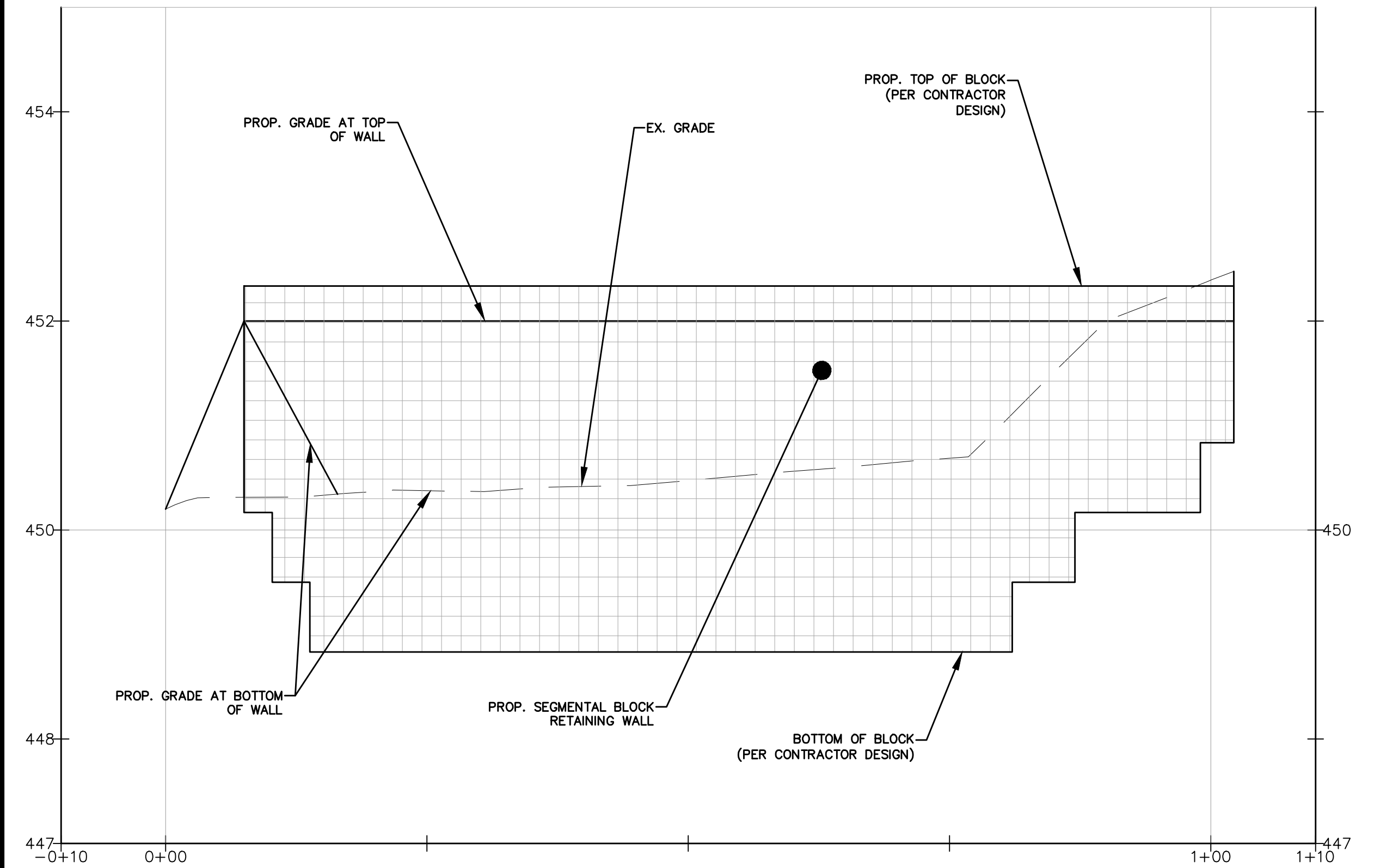
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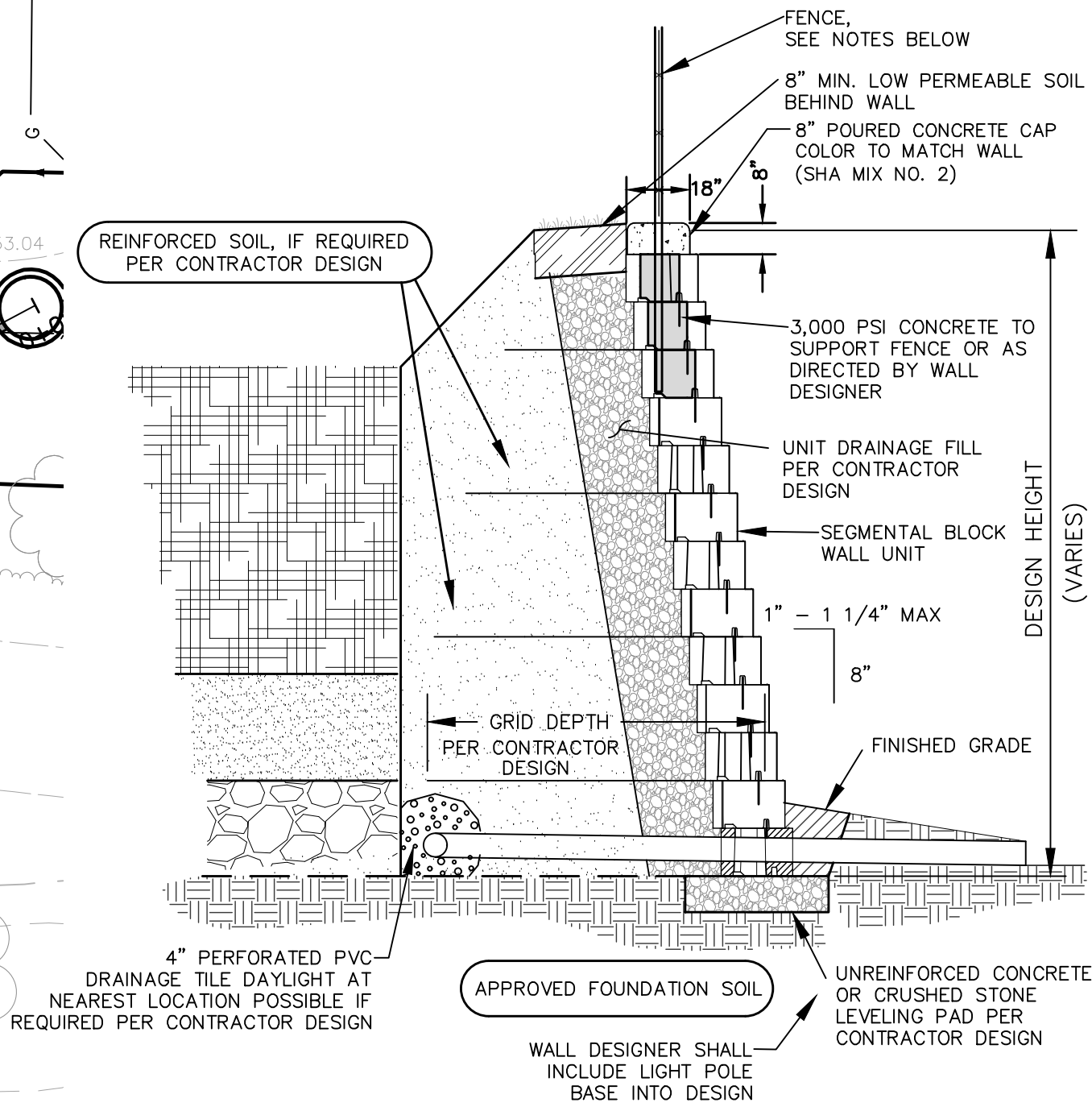




1 RETAINING WALL "A" PLAN  
SCALE: 1" = 10'



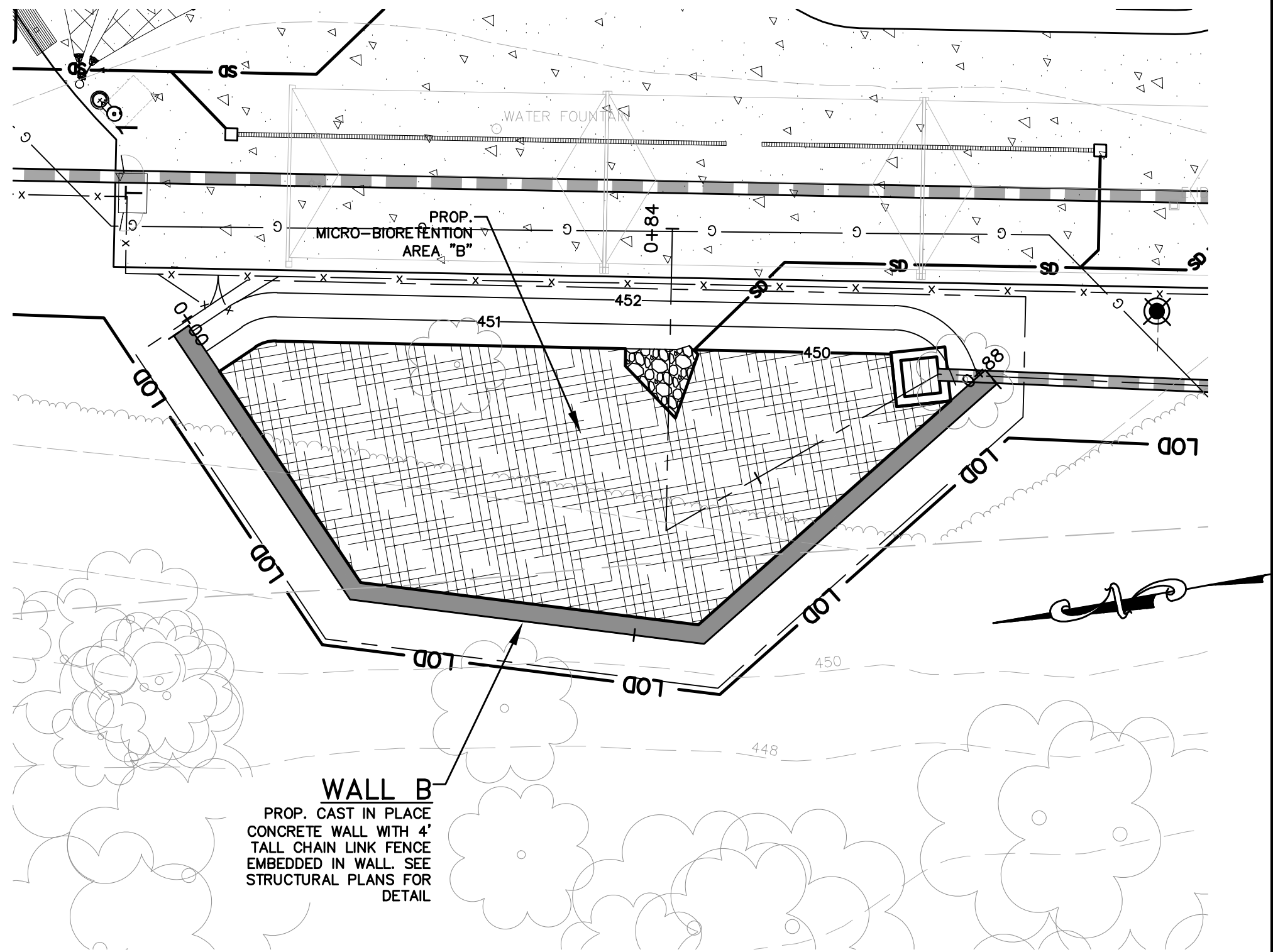
3 RETAINING WALL "A" PROFILE  
SCALE: 1"=10' (HOR) 1"=1' (VER)



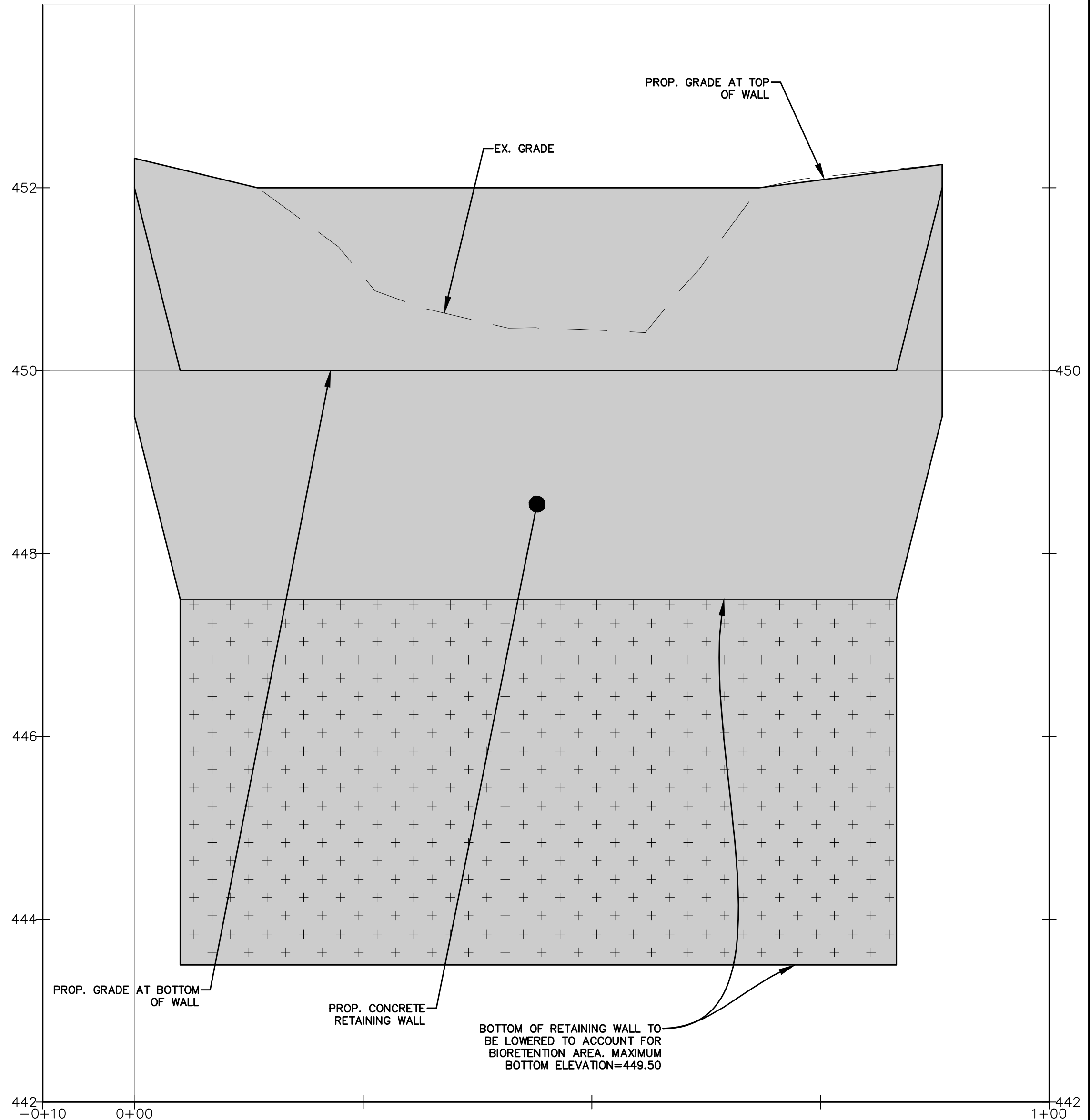
NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED PERMITS FOR ALL RETAINING WALLS ON THE SITE.
2. PROVIDE CERTIFIED SHOP DRAWINGS SIGNED AND SEALED BY A MARYLAND LICENSED PROFESSIONAL ENGINEER FOR THE WALL AND FOR THE FENCE TO THE OWNERS/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE ORDERING OF MATERIALS AND PRIOR TO INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR THE FINAL DESIGN.
3. CONTRACTORS DESIGN SHALL TAKE ACCOUNT OF MICRO-BIORETENTION MEDIA. DESIGN SHOULD ALLOW FOR MEDIA TO BE COMPLETELY EXCAVATED WITHOUT HAVING A NEGATIVE IMPACT ON THE WALL.
4. THE SEGMENTAL GRAVITY RETAINING WALL INSTALLATION SHALL BE OBSERVED BY A NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA)-CERTIFIED DESIGNER OR INSTALLER (CSRW). THE INSPECTOR SHALL OBSERVE INSTALLATION OPERATIONS AND SUBMIT A WRITTEN CERTIFICATION TO THE OWNER THAT THE SRW WAS BUILT IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
5. THIS DETAIL IS FOR INFORMATION ONLY. FOLLOW MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES.
6. WHEN SITE CONDITIONS REQUIRE, WRAP DRAINAGE TILE IN 3/4" AGGREGATE AND FILTER FABRIC WITH DRAINAGE COMPOSITE OR AGGREGATE BACK DRAIN SYSTEM, AS DIRECTED BY GEOTECHNICAL ENGINEER.
7. FINISH FACE OF WALL TO BE TURNED AT ENDPOINTS TO AVOID SIDE EXPOSURE OF BLOCK UNITS.
8. CHAIN-LINK FENCE POSTS SHALL BE EMBEDDED IN THE WALL PER CONTRACTOR DESIGN
9. WHERE WALL ABUTS BIORETENTION AREA, THE WALL FOOTING SHALL EXTEND BELOW GRADE AN ADDITIONAL DEPTH, IF NECESSARY, AS DETERMINED BY THE WALL DESIGNER SO AS TO ALLOW FOR BIORETENTION MEDIA INSTALLATION AFTER WALL CONSTRUCTION.
10. CONTRACTOR TO ADJUST GEOGRID REINFORCEMENT AROUND ANY OBSTRUCTIONS.
11. FENCE SHALL BE DESIGNED TO SUPPORT AN OVERTURNING MOMENT FROM A 200 POUND POINT LOAD OR 50 PLF.
12. WALL SHALL BE KEYSTONE COMPAC WITH STRAIGHT SPLIT IN GREY (OR APPROVED EQUAL)

1 TYPICAL SEGMENTAL BLOCK WALL SECTION  
NOT TO SCALE



2 RETAINING WALL "B" PLAN  
SCALE: 1" = 10'



4 RETAINING WALL "B" PROFILE  
SCALE: 1"=10' (HOR) 1"=1' (VER)

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



CLARK | AZAR & ASSOCIATES

20440 Century Blvd, Suite 220  
Germantown, MD. 20874  
T(301) 528-2010  
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DULY LICENSED  
PROFESSIONAL  
ENGINEER UNDER THE  
LAWS OF THE STATE OF  
MARYLAND.

LICENSE NO. 31168  
EXPIRATION DATE:  
01/12/2025

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

RETAINING WALL  
PLAN

PERMIT SET

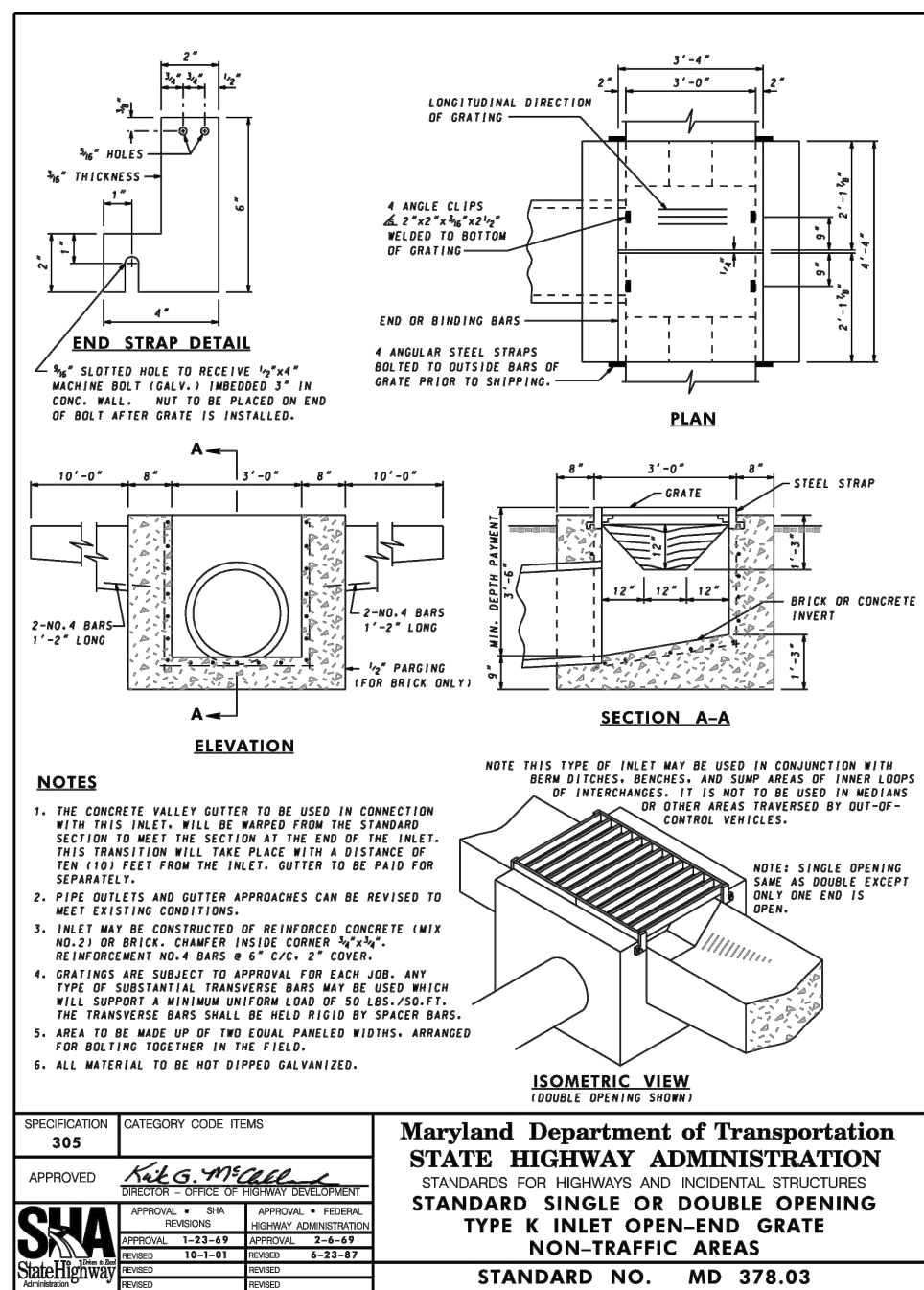
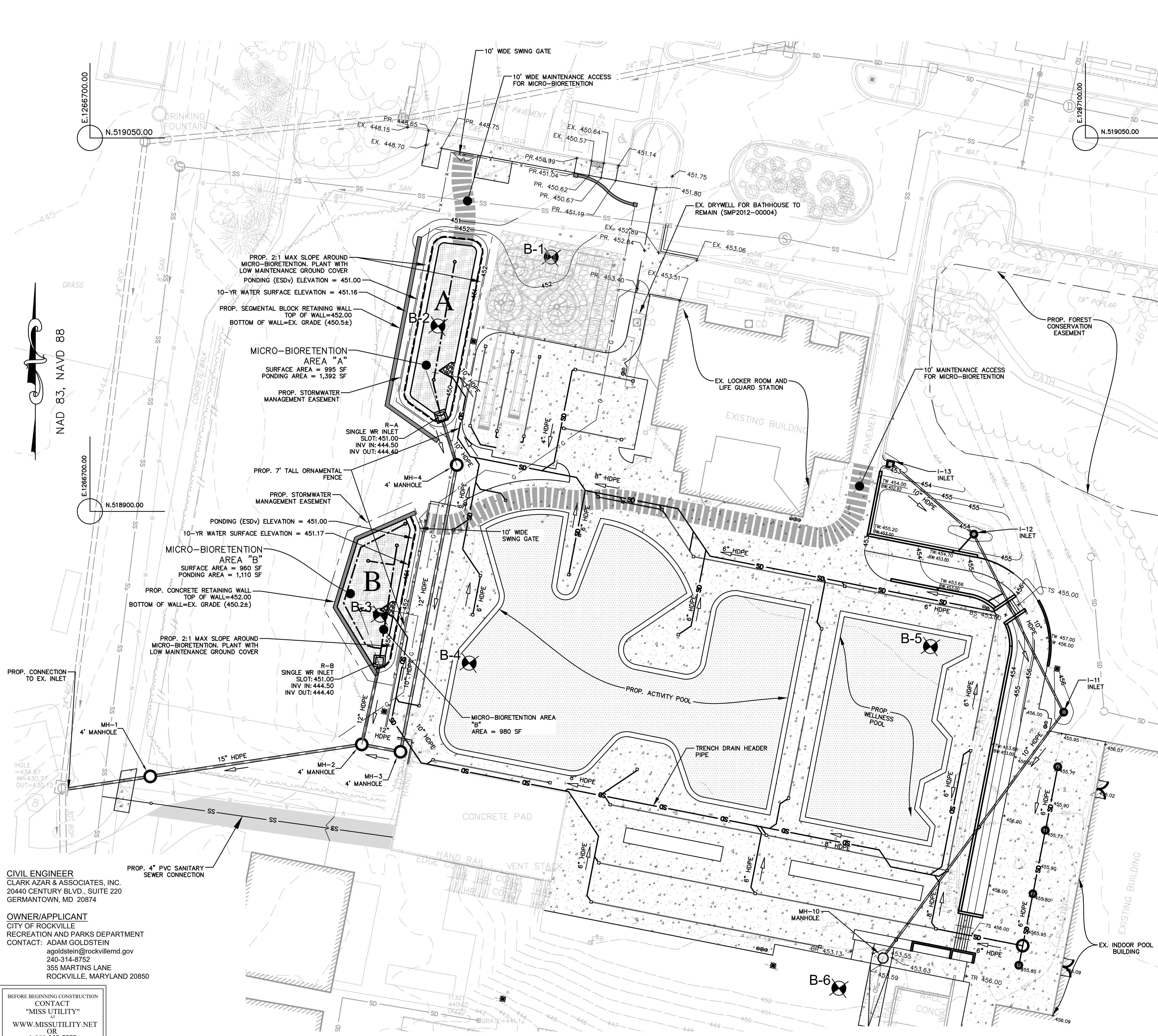
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2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	PERMIT SET 12/08/2023

No.	Description	Date
Revisions		

Project Number: 22.00036.00  
Scale: 1" = 10'  
Drawn By: SL  
Checked By: JA  
Date: 02/08/2024

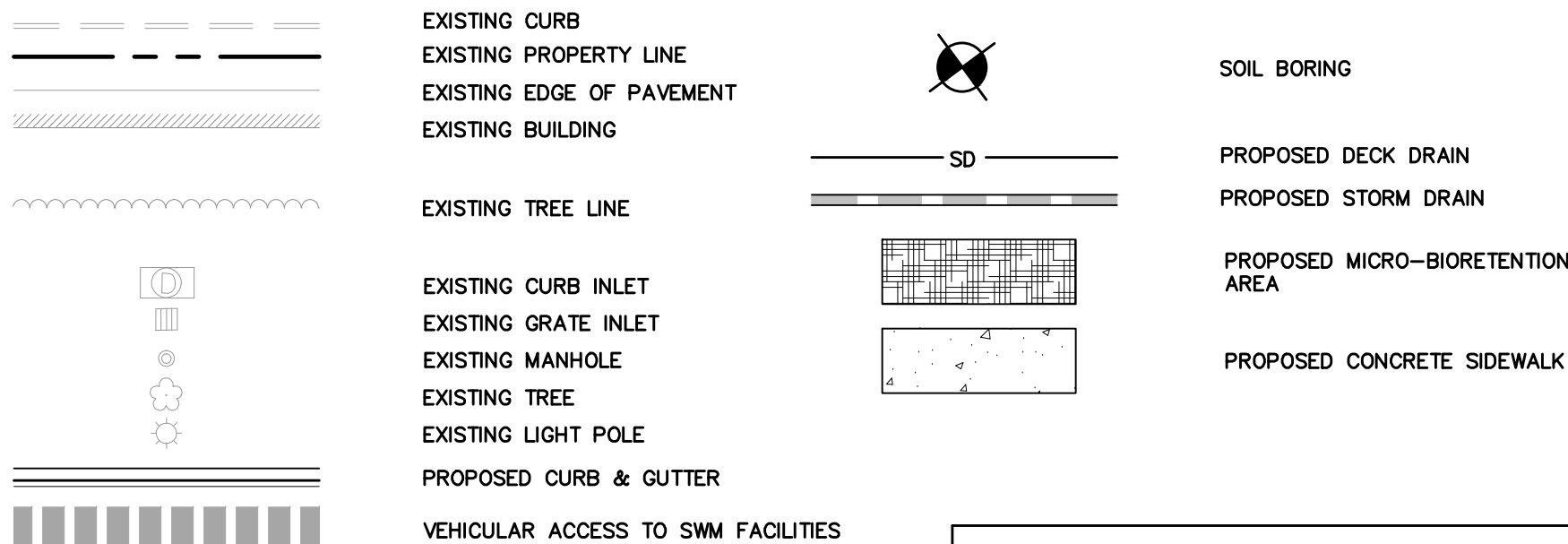
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**OVERFLOW STRUCTURE R-A  
AND R-B DETAIL**  
N.T.S.

**LEGEND**



SOIL BOUNDARY NOTE:  
ALL SOIL WITHIN THE  
SHOWN AREA IS  
GLENELG SILT LOAM  
(HSG "B")

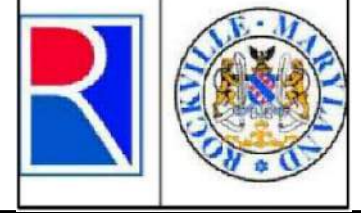
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2	449.17	REBAR WITH CAP SET
3	462.06	REBAR WITH CAP SET

CIVIL ENGINEER  
CLARK AZAR & ASSOCIATES, INC.  
20440 CENTURY BLVD., SUITE 220  
GERMANTOWN, MD 20874

OWNER/APPLICANT  
CITY OF ROCKVILLE  
RECREATION AND PARKS DEPARTMENT  
CONTACT: ADAM GOLDSTEIN  
agoldstein@rockvillemd.gov  
240-314-8732  
355 MARTINS LANE  
ROCKVILLE, MARYLAND 20850

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DEPARTMENT OF PUBLIC WORKS  
CITY OF  
**ROCKVILLE**  
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED SL  
DRAFTED MS  
CHECKED JA

DESIGN PLAN APPROVAL  
DIRECTOR OF PUBLIC WORKS  
APPROVAL DATE

PKW# \_\_\_\_\_ SCP# \_\_\_\_\_  
SMP# 2024-00016 REVIEWED BY \_\_\_\_\_

AS BUILT PLAN APPROVAL  
CHIEF, CONSTRUCTION MANAGEMENT  
APPROVAL DATE

**SMP2024-00016**  
**STORMWATER MANAGEMENT PLAN**

ROCKVILLE SWIM & FITNESS CENTER  
OUTDOOR RECREATION POOL RENOVATIONS  
355 MARTINS LANE PARCEL 630

Election District No. 4 City of Rockville, Maryland

DATE SUBMITTED:  
2/7/2024

SCALE  
1"=20'

SHEET  
NO. 2  
OF 6

FILE #

APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL

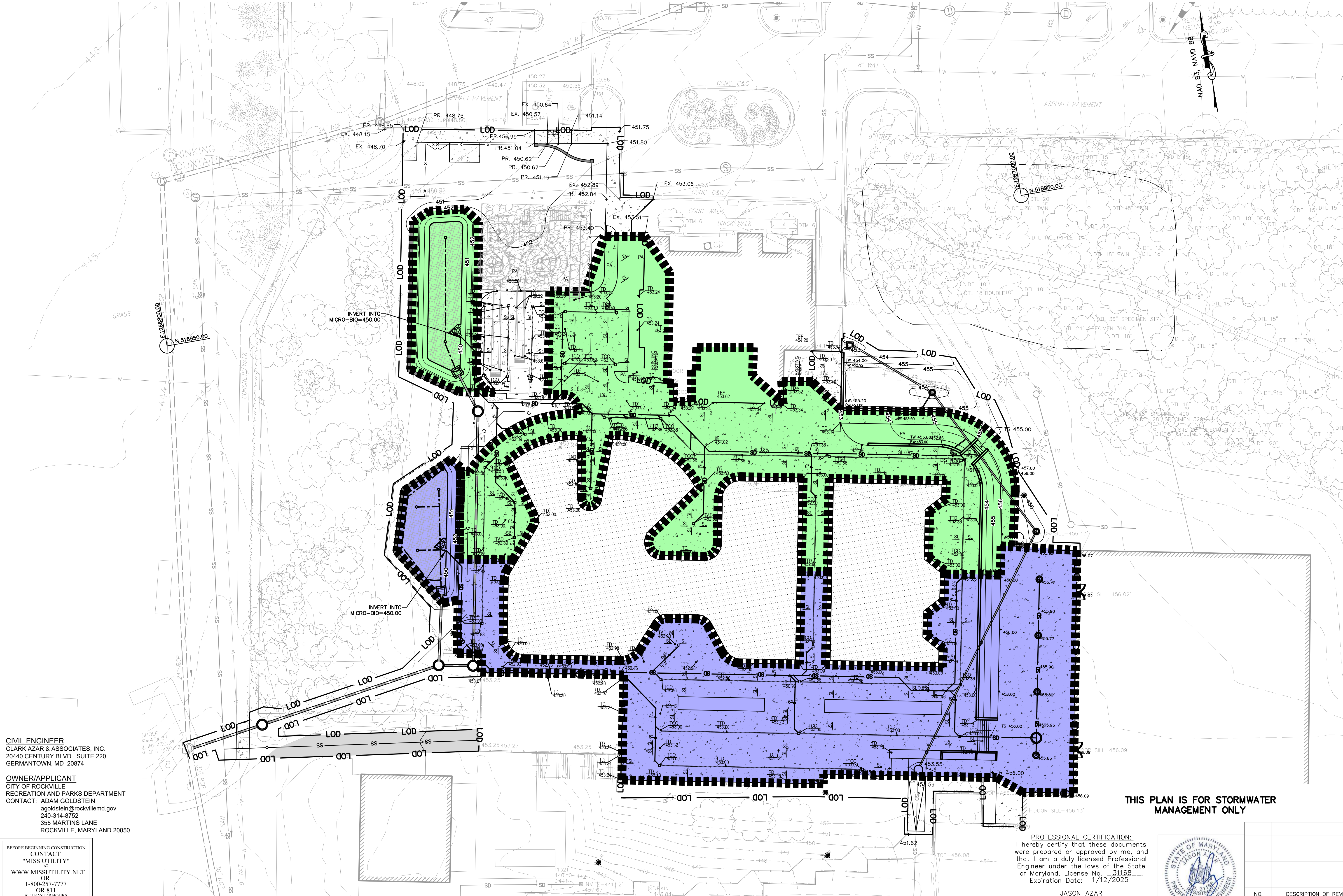
NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE
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Expiration Date: 1/12/2025

JASON AZAR  
NAME



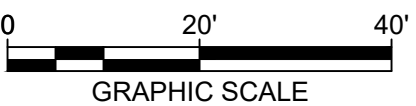


**DRAINAGE AREA A:**  
TO MICRO-BIORETENTION AREA A  
AREA = 17,426 SF (0.400 AC)  
IMPERVIOUS AREA = 13,324 SF  
PERVIOUS AREA = 4,102 SF  
PERCENT IMPERVIOUS = 76.5%

**DRAINAGE AREA B:**  
TO MICRO-BIORETENTION AREA B  
AREA = 18,323 SF (0.421 AC)  
IMPERVIOUS AREA = 15,586 SF  
PERVIOUS AREA = 2,737 SF  
PERCENT IMPERVIOUS = 85.1%

**SPOT LEGEND**

TTD TOP TRENCH DRAIN  
TD TOP OF POOL DECK  
TCO TOP OF CLEANOUT  
IE INVERT ELEVATION  
FFE FINISHED FLOOR ELEVATION  
GRATE GRATE ELEVATION  
SL SLOPE



**THIS PLAN IS FOR STORMWATER  
MANAGEMENT ONLY**

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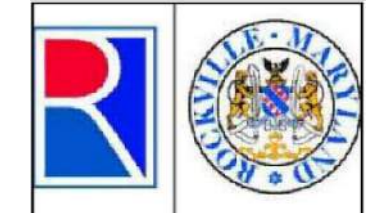


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20440 CENTURY BLVD., SUITE 220  
GERMANTOWN, MD 20874

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CITY OF ROCKVILLE  
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CONTACT: ADAM GOLDSTEIN  
agoldstein@rockvillemd.gov  
240-314-8752  
355 MARTINS LANE  
ROCKVILLE, MARYLAND 20850

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DEPARTMENT OF PUBLIC WORKS  
CITY OF  
**ROCKVILLE**  
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED SL  
DRAFTED MS  
CHECKED JA

DESIGN PLAN APPROVAL  
PWK# \_\_\_\_\_ SCP# \_\_\_\_\_  
SMP# 2024-00016 REVIEWED BY \_\_\_\_\_  
DIRECTOR OF PUBLIC WORKS APPROVAL DATE \_\_\_\_\_

AS BUILT PLAN APPROVAL  
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE \_\_\_\_\_

**SMP2024-00016**  
**DRAINAGE AREA MAP**

ROCKVILLE SWIM & FITNESS CENTER  
OUTDOOR RECREATION POOL RENOVATIONS  
355 MARTINS LANE PARCEL 630

Election District No. 4 City of Rockville, Maryland

DATE SUBMITTED:  
2/7/2024  
SCALE  
1"=20'  
SHEET  
NO. 3  
OF 6  
FILE #



DESIGNED SL  
DRAFTED MS  
CHECKED JA

DESIGN PLAN APPROVAL

PWK# \_\_\_\_\_

SMP# 2024-00 \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

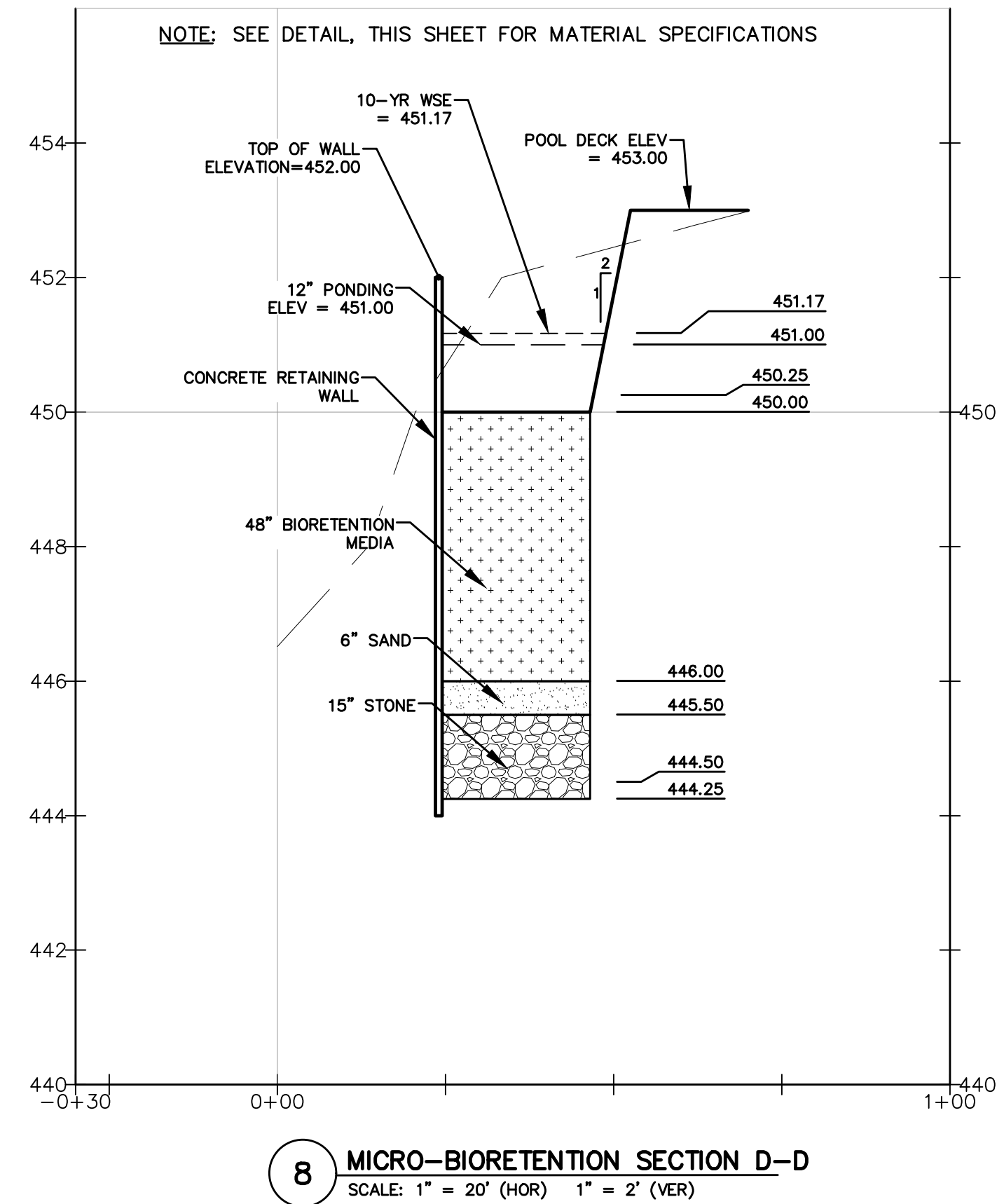
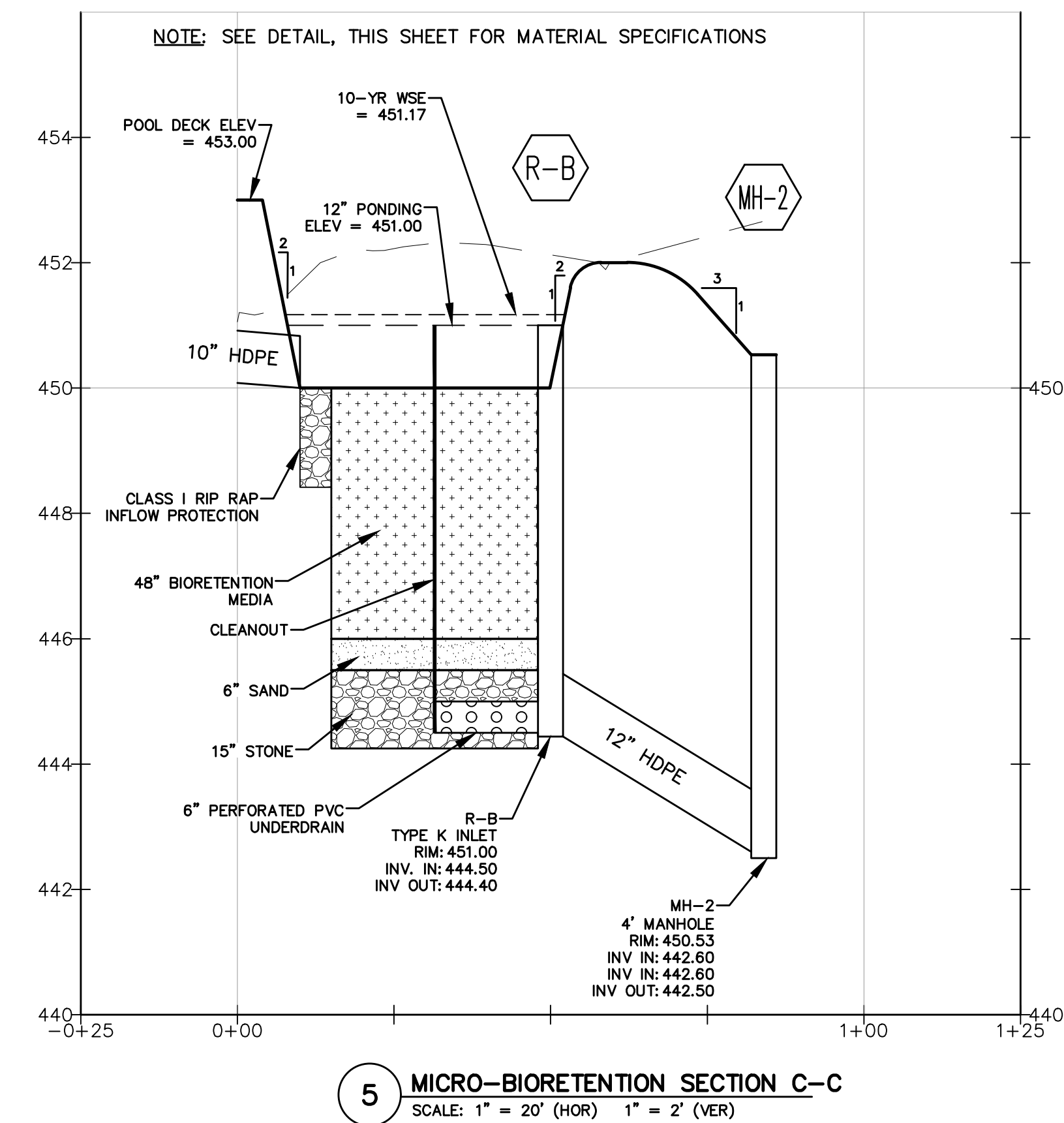
AS BUILT PLAN APPROVAL	
CHIEF, CONSTRUCTION MANAGEMENT	APPROVAL DATE

ROCKVILLE SWIM & FITNESS CENTER  
OUTDOOR RECREATION POOL RENOVATIONS  
355 MARTINS LANE PARCEL 630

Election District No. 4                      City of Rockville, Maryland

DATE SUBMITTED: 2/7/2024	SCALE	SHEET	FILE #
	1"=10'	NO. <u>4</u>	
		OF <u>6</u>	

**BID SET 02/23/2024**



<b>Material</b>	<b>Specification</b>	<b>Size</b>	<b>Notes</b>
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific
Planting soil [2' to 4' deep]	loamy sand (60 - 65%) & compost (35 - 40%) or sandy loam (30%), coarse sand (30%) & compost (40%)	n/a	USDA soil types loamy sand or sandy loam; clay content < 5%
Organic content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 months, minimum; no pine or wood chips
Pea gravel diaphragm	pea gravel: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
Curtain drain	ornamental stone: washed cobbles	stone: 2" to 5"	
Geotextile		n/a	PE Type I nonwoven
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" to 3/4")	
Underdrain piping	F 758, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes. Perforated pipe shall be wrapped with 1/2-inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Mix No. 3; $f'_c = 3500$ psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-60	n/a	on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) <i>not using previously approved State or local standards</i> requires design drawings scaled and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 350.R/89; vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil pressures); and analysis of potential cracking
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone (AASHTO #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.

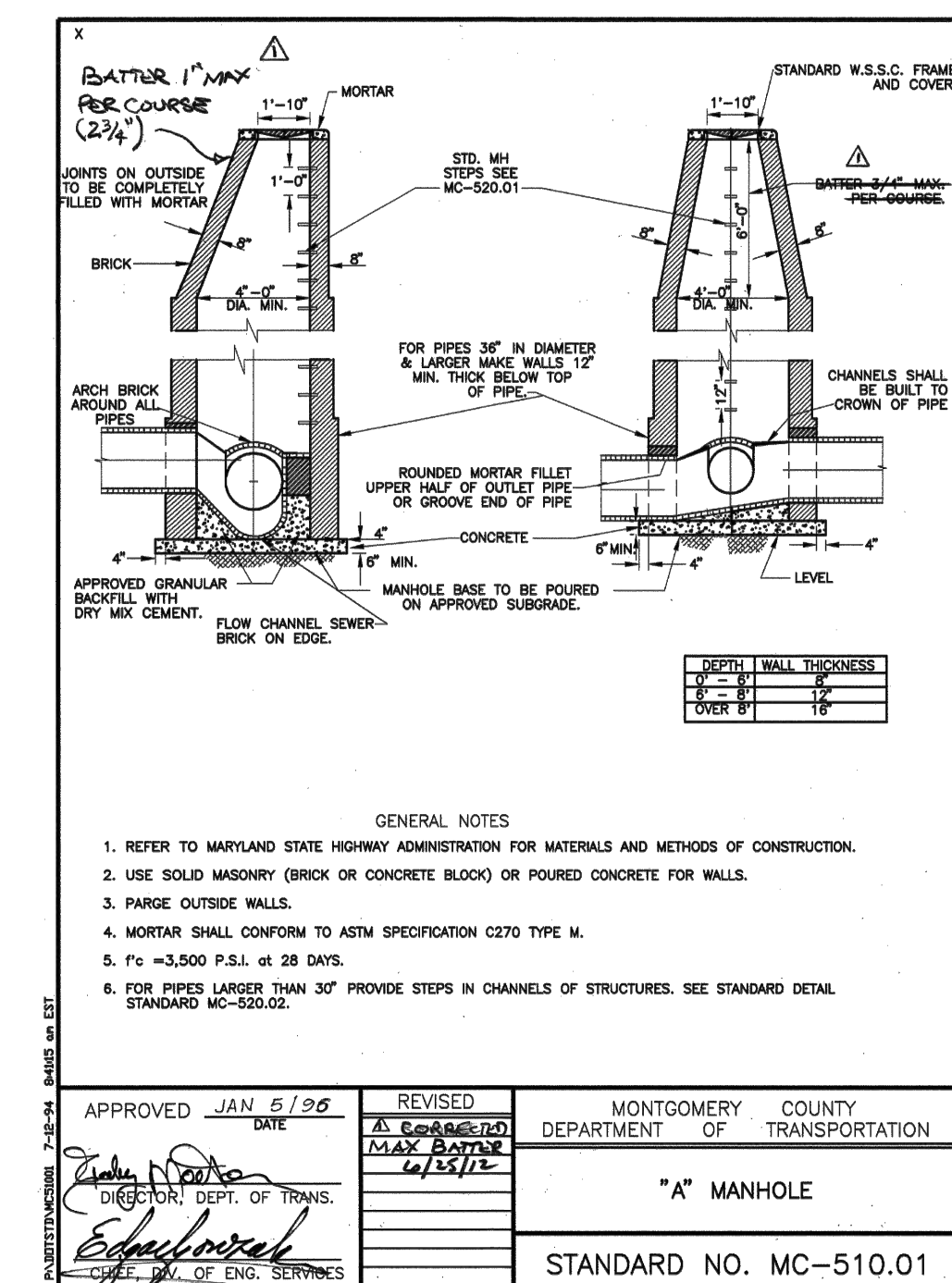
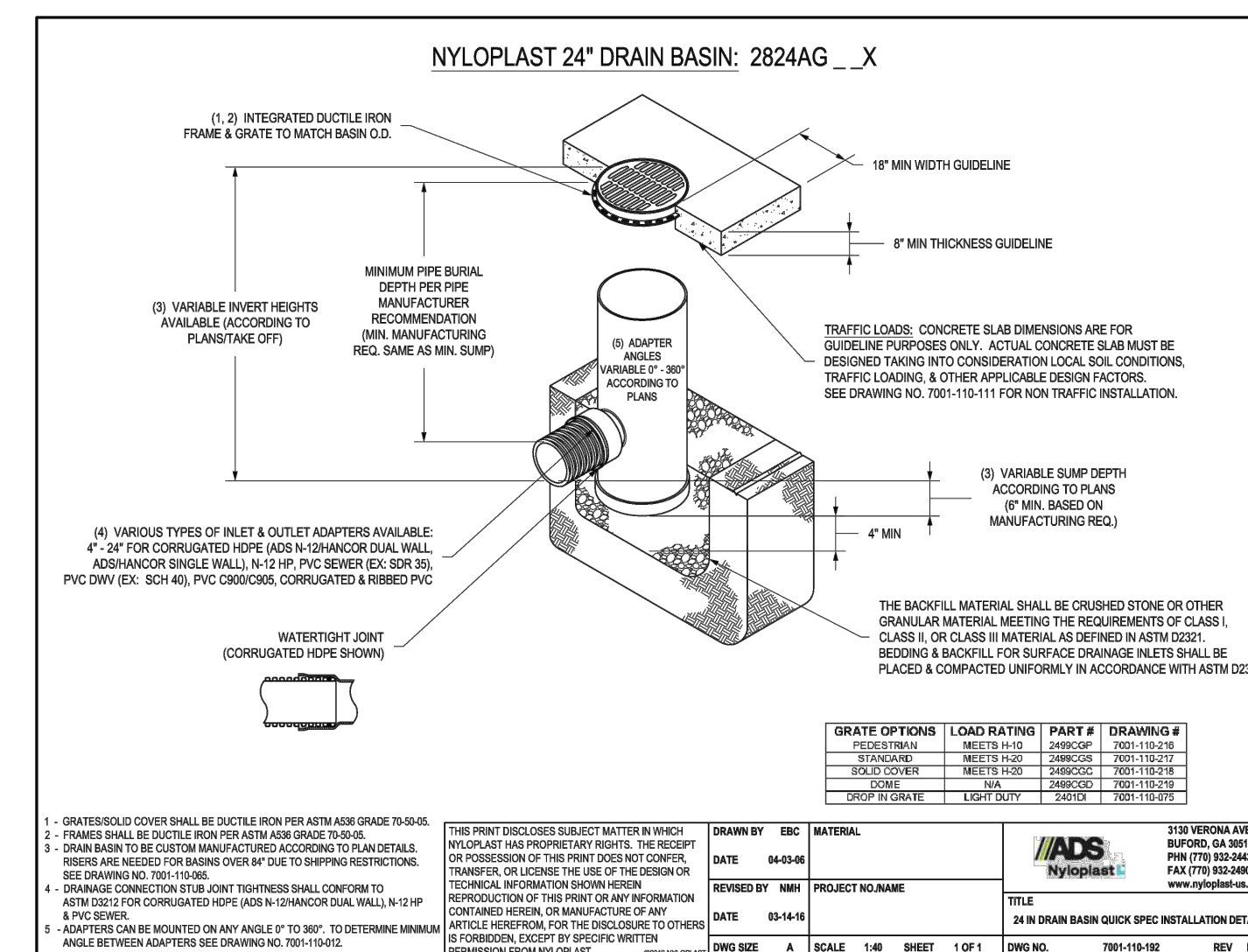
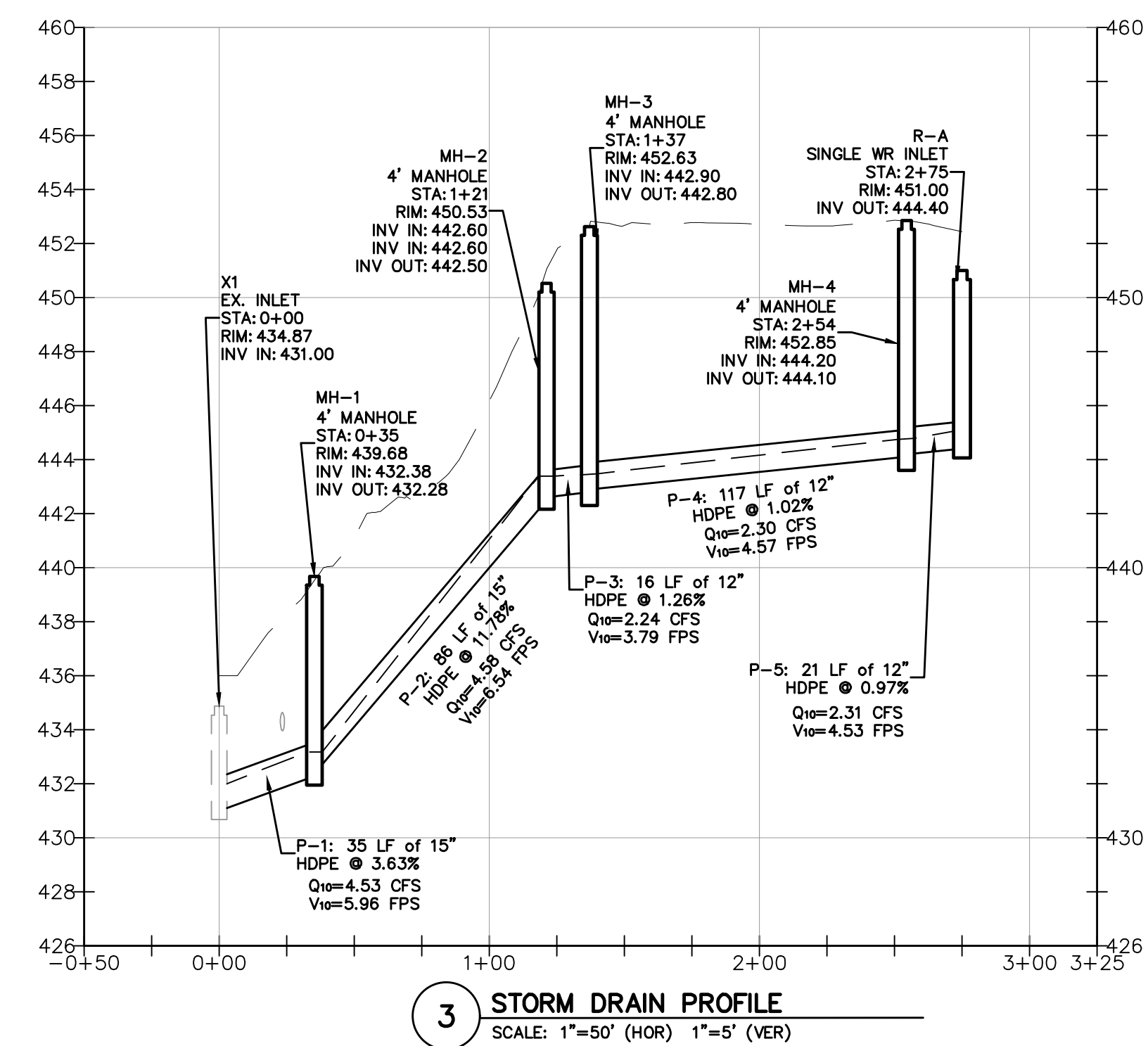
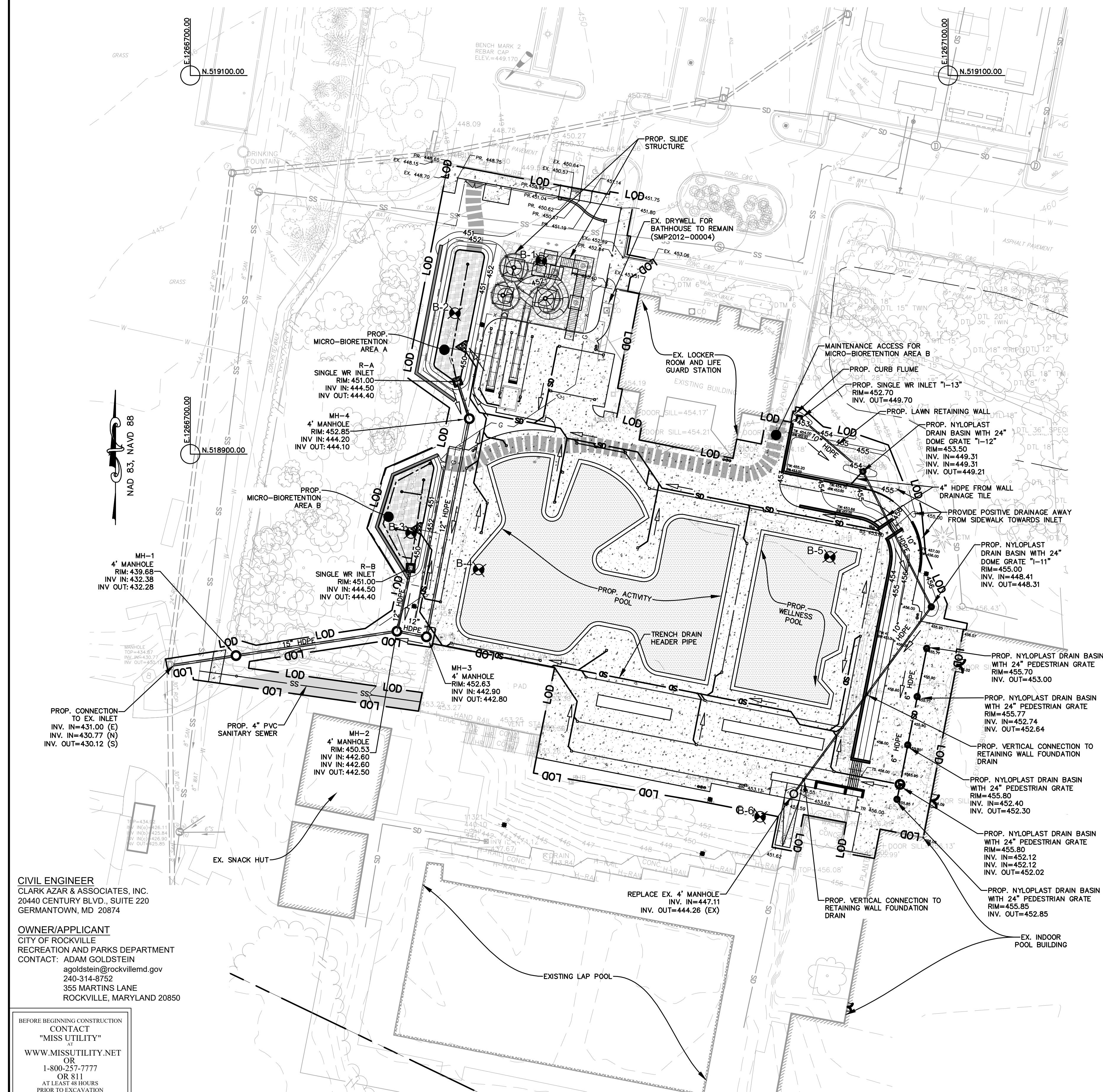
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**OWNER/APPLICANT**  
CITY OF ROCKVILLE  
RECREATION AND PARKS DEPARTMENT  
CONTACT: ADAM GOLDSTEIN  
agoldstein@rockvillemd.gov  
240-314-8752  
355 MARTINS LANE  
ROCKVILLE, MARYLAND 20850

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AT  
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OR  
1-800-257-7777  
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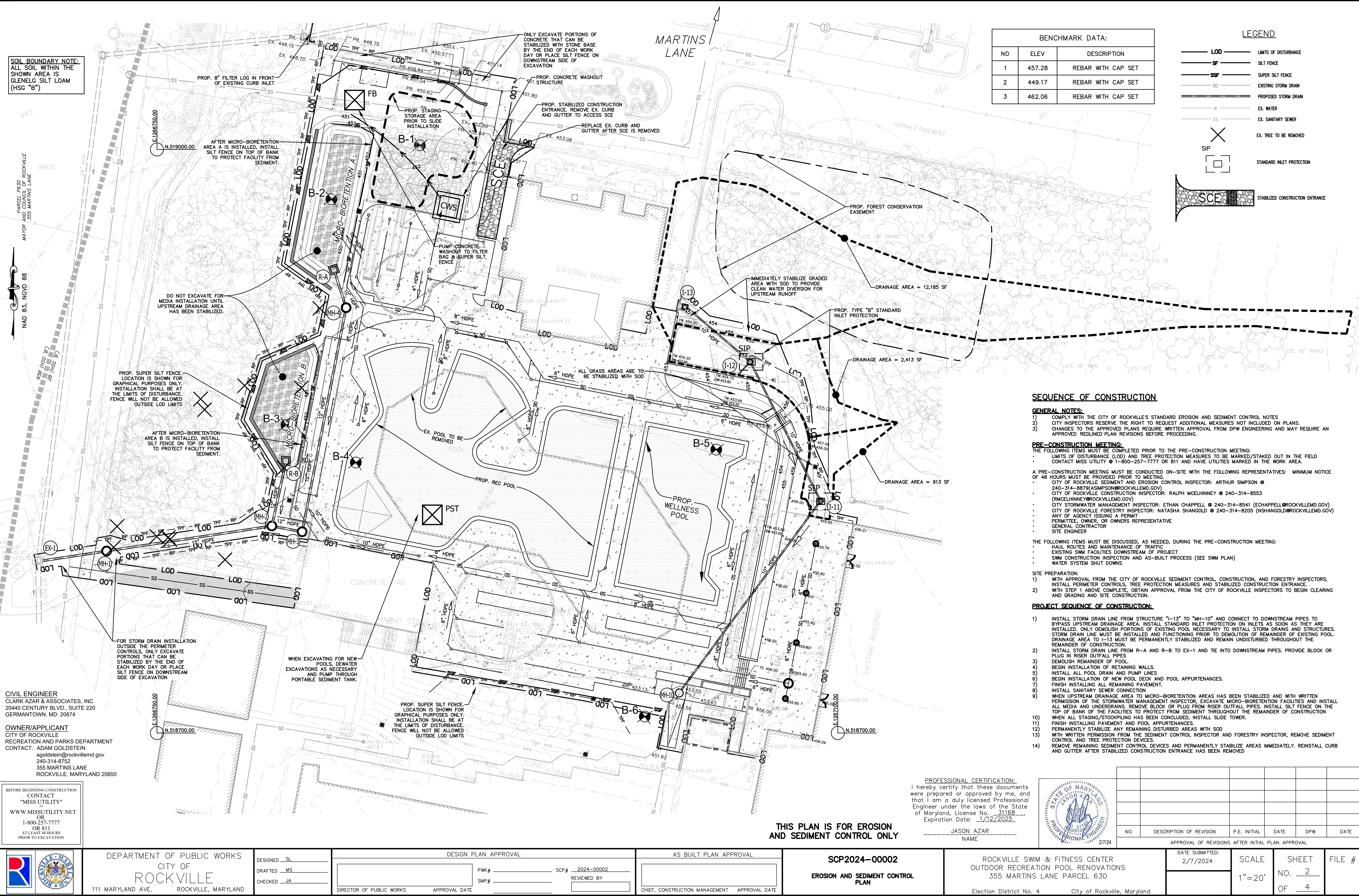


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NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE	
APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL						
		DATE SUBMITTED: 2/7/2024	SCALE  1"=20'	SHEET NO. N/A  OF N/A	FILE #  C-320	





SOIL BOUNDARY NOTE:  
ALL SOIL WITHIN THE  
SHOWN AREA IS  
GLENELG SILT LOAM  
(HSG "B")

PARCEL 630  
CITY OF ROCKVILLE  
MAYOR AVE 355 MARTINS LANE  
NAD 83, NGVD 88

BENCHMARK DATA:		
NO	ELEV	DESCRIPTION
1	457.28	REBAR WITH CAP SET
2	449.17	REBAR WITH CAP SET
3	462.06	REBAR WITH CAP SET

**LEGEND**

- LOD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- SSF — SUPER SILT FENCE
- SD — EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- W — EX. WATER
- SS — EX. SANITARY SEWER
- X — EX. TREE TO BE REMOVED
- SIP — STANDARD INLET PROTECTION
- SCE — STABILIZED CONSTRUCTION ENTRANCE

**SEQUENCE OF CONSTRUCTION**

- GENERAL NOTES:**
- COMPLY WITH THE CITY OF ROCKVILLE'S STANDARD EROSION AND SEDIMENT CONTROL NOTES
  - CITY INSPECTORS RESERVE THE RIGHT TO REQUEST ADDITIONAL MEASURES NOT INCLUDED ON PLANS.
  - CHANGES TO THE APPROVED PLANS REQUIRE WRITTEN APPROVAL FROM DPW ENGINEERING AND MAY REQUIRE AN APPROVED REDLINED PLAN REVISIONS BEFORE PROCEEDING.

- PRE-CONSTRUCTION MEETING:**
- THE FOLLOWING ITEMS MUST BE COMPLETED PRIOR TO THE PRE-CONSTRUCTION MEETING:
- LIMITS OF DISTURBANCE (LOD) AND TREE PROTECTION MEASURES TO BE MARKED/STAKED OUT IN THE FIELD
  - CONTACT MISS UTILITY @ 1-800-257-7777 OR 811 AND HAVE UTILITIES MARKED IN THE WORK AREA.
- A PRE-CONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE WITH THE FOLLOWING REPRESENTATIVES: MINIMUM NOTICE OF 48 HOURS MUST BE PROVIDED PRIOR TO MEETING.
- CITY OF ROCKVILLE SEDIMENT AND EROSION CONTROL INSPECTOR: ARTHUR SIMPSON @ 240-314-8879 (ASIMPSON@ROCKVILLEMD.GOV)
  - CITY OF ROCKVILLE CONSTRUCTION INSPECTOR: RALPH MCELHINNEY @ 240-314-8553 (RMCELHINNEY@ROCKVILLEMD.GOV)
  - CITY STORMWATER MANAGEMENT INSPECTOR: ETHAN CHAPPELL @ 240-314-8541 (ECHAPPELL@ROCKVILLEMD.GOV)
  - CITY OF ROCKVILLE FORESTRY INSPECTOR: NATASHA SHANGOLD @ 240-314-8205 (NSHANGOLD@ROCKVILLEMD.GOV)
  - ANY OF AGENCY ISSUING A PERMIT
  - PERMITTEE, OWNER, OR OWNERS REPRESENTATIVE
  - GENERAL CONTRACTOR
  - SITE ENGINEER

- THE FOLLOWING ITEMS MUST BE DISCUSSED, AS NEEDED, DURING THE PRE-CONSTRUCTION MEETING:
- HAUL ROUTES AND MAINTENANCE OF TRAFFIC
  - EXISTING SWM FACILITIES DOWNSTREAM OF PROJECT
  - SWM CONSTRUCTION INSPECTION AND AS-BUILT PROCESS (SEE SWM PLAN)
  - WATER SYSTEM SHUT DOWNS

- SITE PREPARATION:**
- WITH APPROVAL FROM THE CITY OF ROCKVILLE SEDIMENT CONTROL, CONSTRUCTION, AND FORESTRY INSPECTORS, INSTALL PERIMETER CONTROLS, TREE PROTECTION MEASURES AND STABILIZED CONSTRUCTION ENTRANCE.
  - WITH STEP 1 ABOVE COMPLETE, OBTAIN APPROVAL FROM THE CITY OF ROCKVILLE INSPECTORS TO BEGIN CLEARING AND GRADING AND SITE CONSTRUCTION.

**PROJECT SEQUENCE OF CONSTRUCTION:**

- INSTALL STORM DRAIN LINE FROM STRUCTURE "I-13" TO "MH-10" AND CONNECT TO DOWNSTREAM PIPES TO BYPASS UPSTREAM DRAINAGE AREA. INSTALL STANDARD INLET PROTECTION ON INLETS AS SOON AS THEY ARE INSTALLED. ONLY DEMOLISH PORTIONS OF EXISTING POOL NECESSARY TO INSTALL STORM DRAINS AND STRUCTURES. STORM DRAIN LINE MUST BE INSTALLED AND FUNCTIONING PRIOR TO DEMOLITION OF REMAINDER OF EXISTING POOL. DRAINAGE AREA TO I-13 MUST BE PERMANENTLY STABILIZED AND REMAIN UNDISTURBED THROUGHOUT THE REMAINDER OF CONSTRUCTION.
- INSTALL STORM DRAIN LINE FROM R-A AND R-B TO EX-1 AND TIE INTO DOWNSTREAM PIPES. PROVIDE BLOCK OR PLUG IN RISER OUTFALL PIPES
- DEMOLISH REMAINDER OF POOL
- BEGIN INSTALLATION OF RETAINING WALLS.
- INSTALL ALL POOL DRAIN AND PUMP LINES
- BEGIN INSTALLATION OF NEW POOL DECK AND POOL APPURTENANCES.
- FINISH INSTALLING ALL REMAINING PAVEMENT.
- INSTALL SANITARY SEWER CONNECTION
- WHEN UPSTREAM DRAINAGE AREA TO MICRO-BIORETENTION AREAS HAS BEEN STABILIZED AND WITH WRITTEN PERMISSION OF THE STORMWATER MANAGEMENT INSPECTOR, EXCAVATE MICRO-BIORETENTION FACILITIES AND INSTALL ALL MEDIA AND UNDERDRAINS. REMOVE BLOCK OR PLUG FROM RISER OUTFALL PIPES. INSTALL SILT FENCE ON THE TOP OF BANK OF THE FACILITIES TO PROTECT FROM SEDIMENT THROUGHOUT THE REMAINDER OF CONSTRUCTION WHEN ALL STAGING/STOCKPILING HAS BEEN COMPLETED. INSTALL SLIDE TOWER.
- FINISH INSTALLING PAVEMENT AND POOL APPURTENANCES.
- PERMANENTLY STABILIZE ANY REMAINING DISTURBED AREAS WITH SOD
- WITH WRITTEN PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR AND FORESTRY INSPECTOR, REMOVE SEDIMENT CONTROL AND TREE PROTECTION DEVICES
- REMOVE REMAINING SEDIMENT CONTROL DEVICES AND PERMANENTLY STABILIZE AREAS IMMEDIATELY. REINSTALL CURB AND GUTTER AFTER STABILIZED CONSTRUCTION ENTRANCE HAS BEEN REMOVED

**PROFESSIONAL CERTIFICATION:**  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No. 31168  
Expiration Date: 1/12/2025

JASON AZAR  
NAME



NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE
APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL					
DATE SUBMITTED: 2/7/2024					
SCALE 1"=20'					
SHEET NO. 2					
OF 4					
FILE #					

**THIS PLAN IS FOR EROSION  
AND SEDIMENT CONTROL ONLY**

**CIVIL ENGINEER**  
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DEPARTMENT OF PUBLIC WORKS  
CITY OF  
**ROCKVILLE**  
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED SL  
DRAFTED MS  
CHECKED JA

DESIGN PLAN APPROVAL  
PWK# \_\_\_\_\_ SCP# 2024-00002  
SMP# \_\_\_\_\_ REVIEWED BY \_\_\_\_\_  
DIRECTOR OF PUBLIC WORKS APPROVAL DATE \_\_\_\_\_

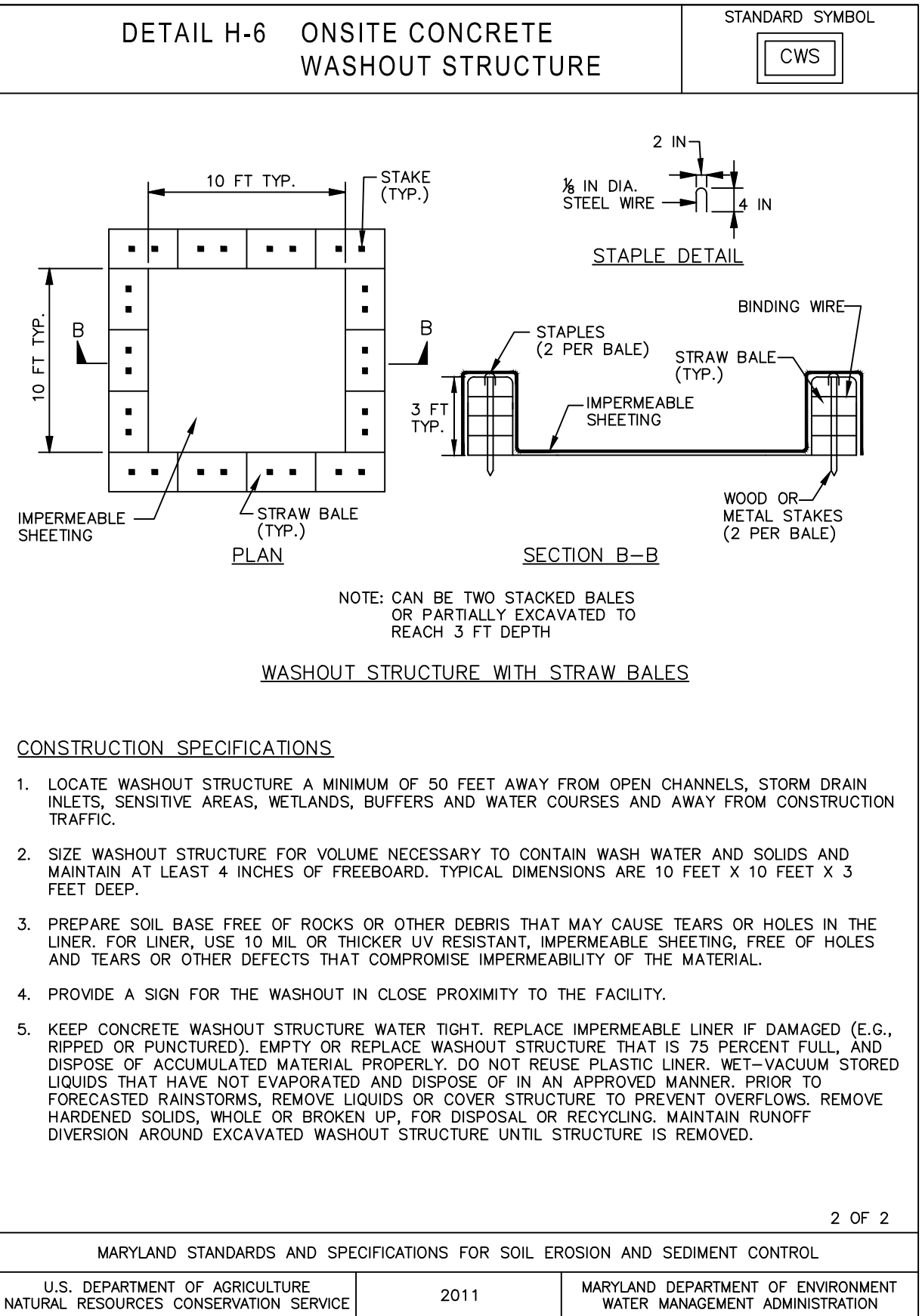
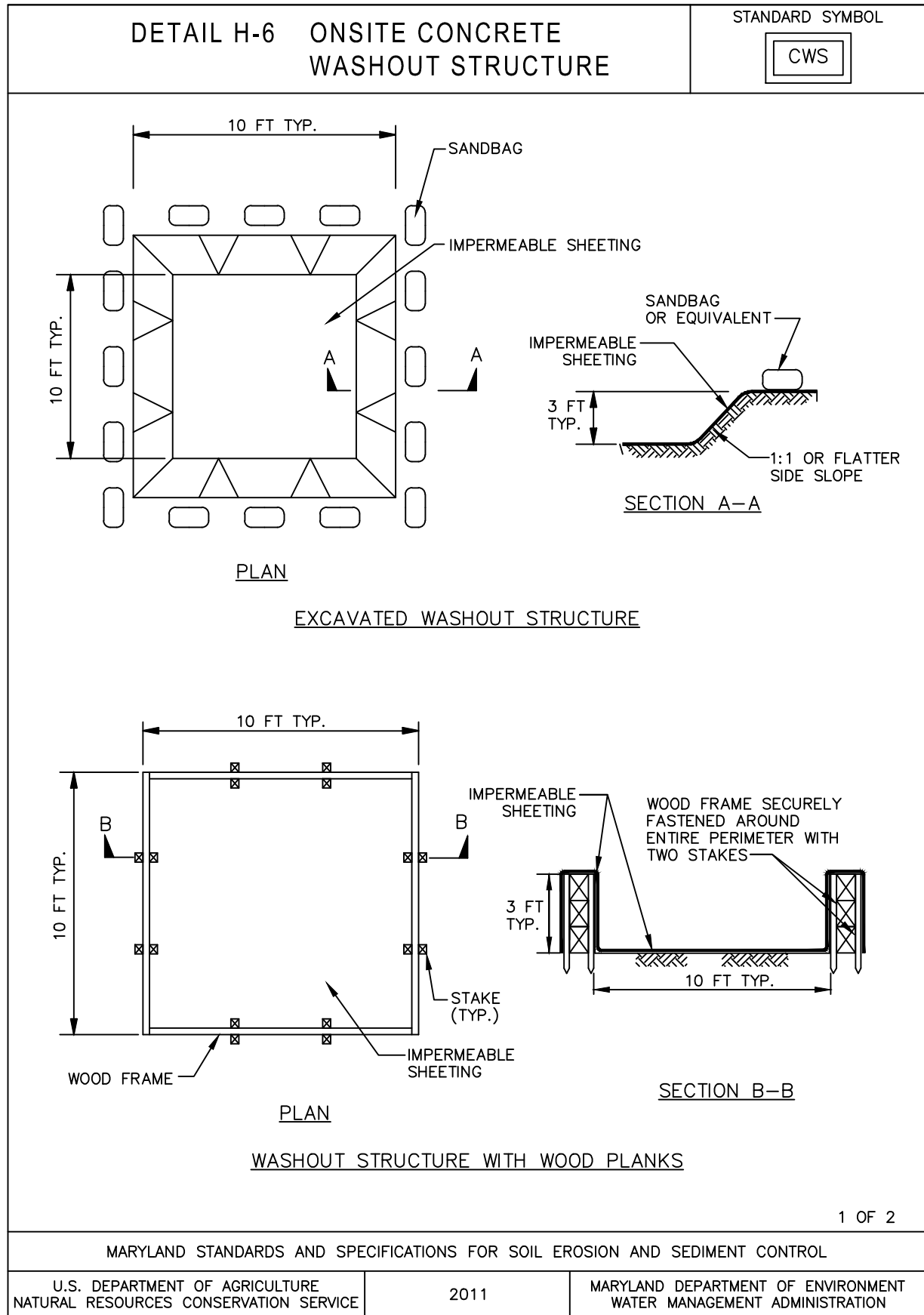
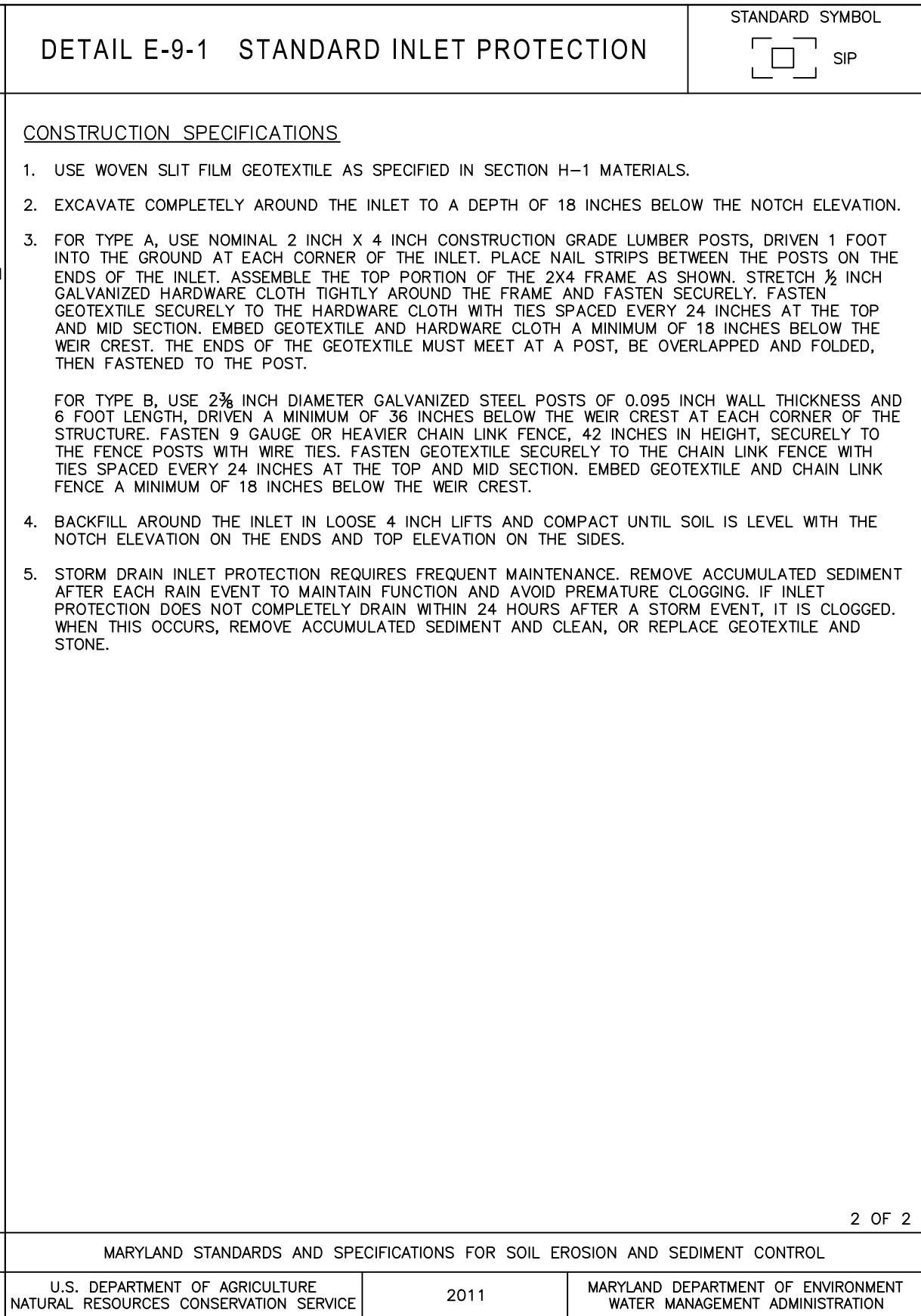
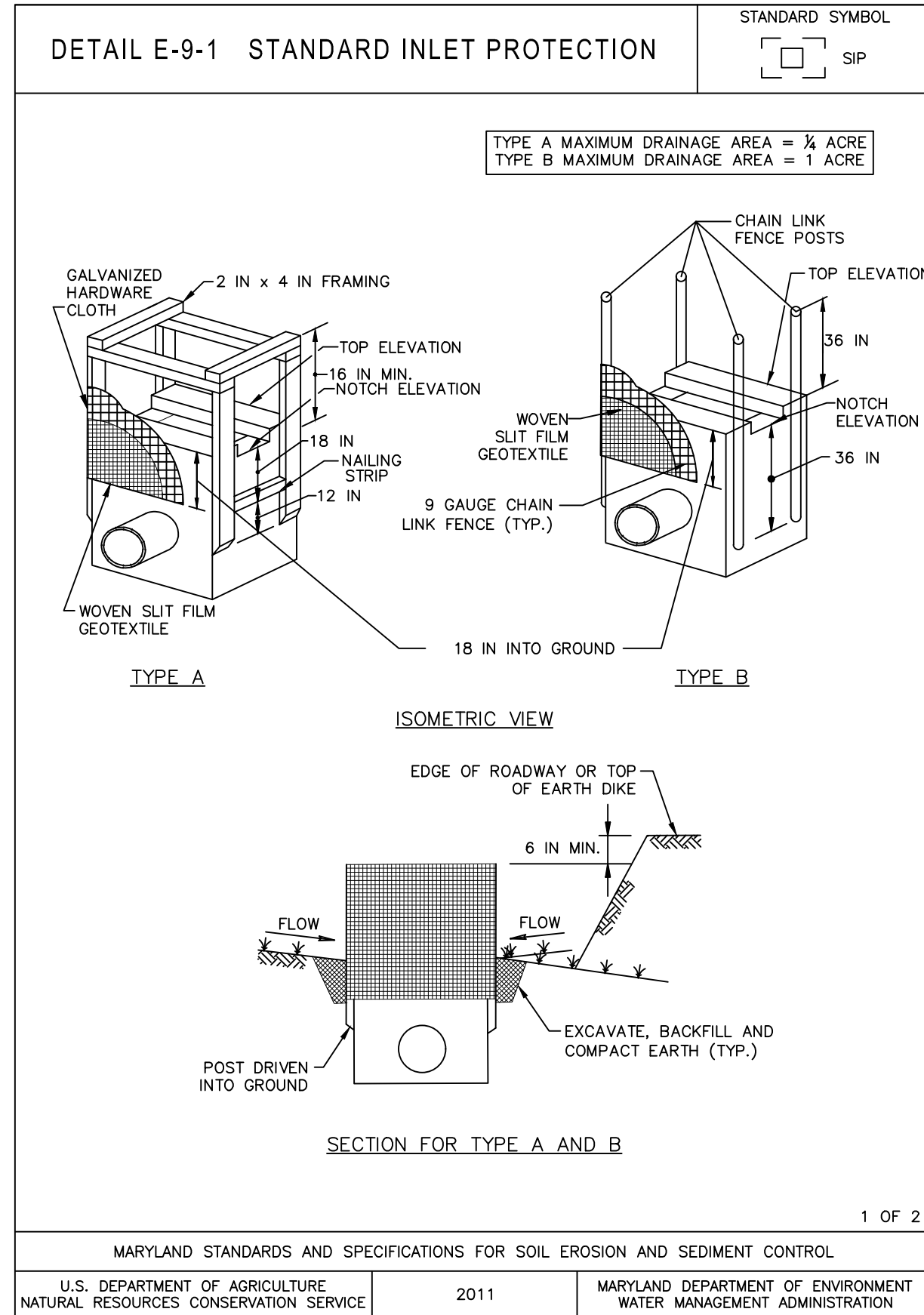
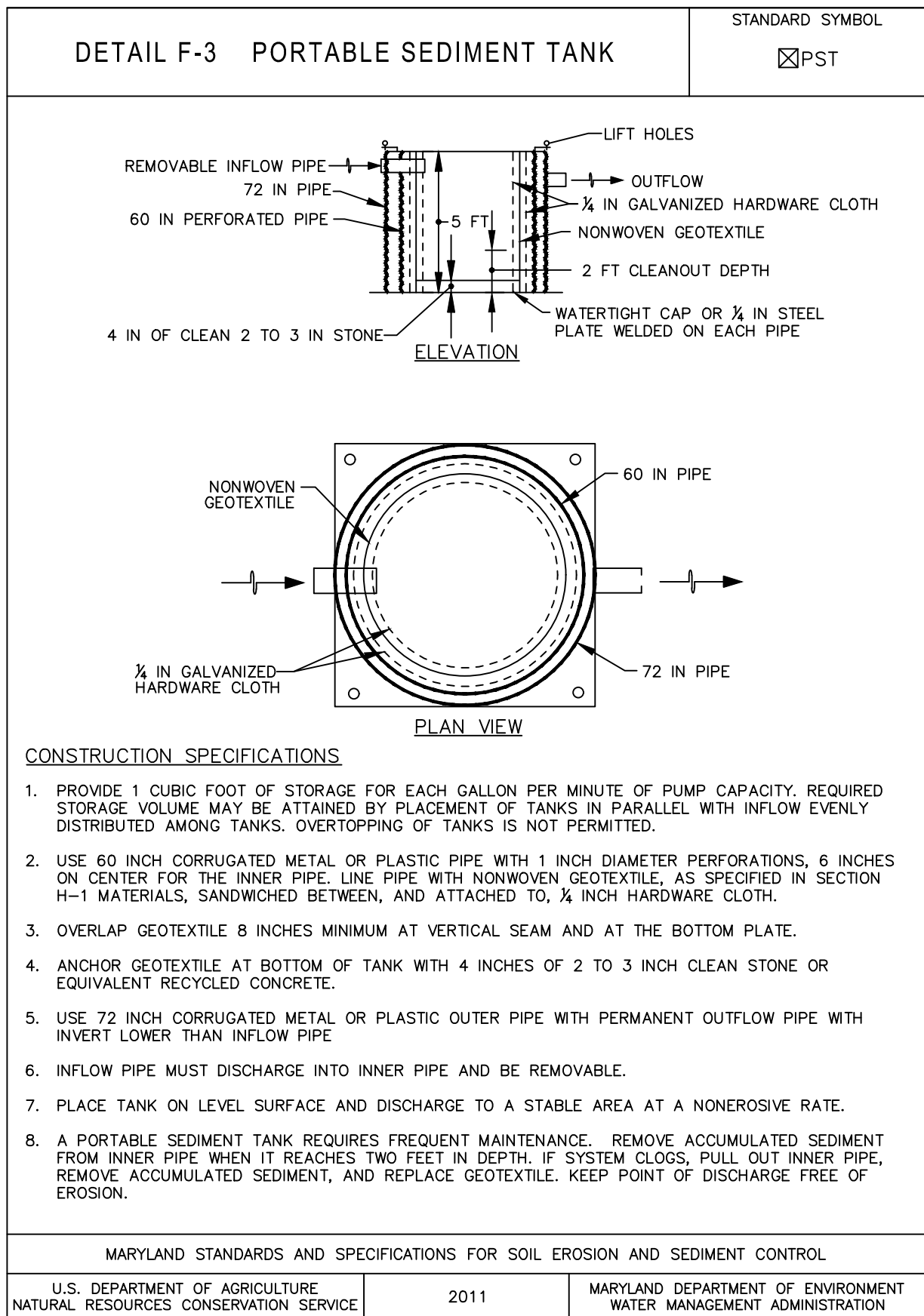
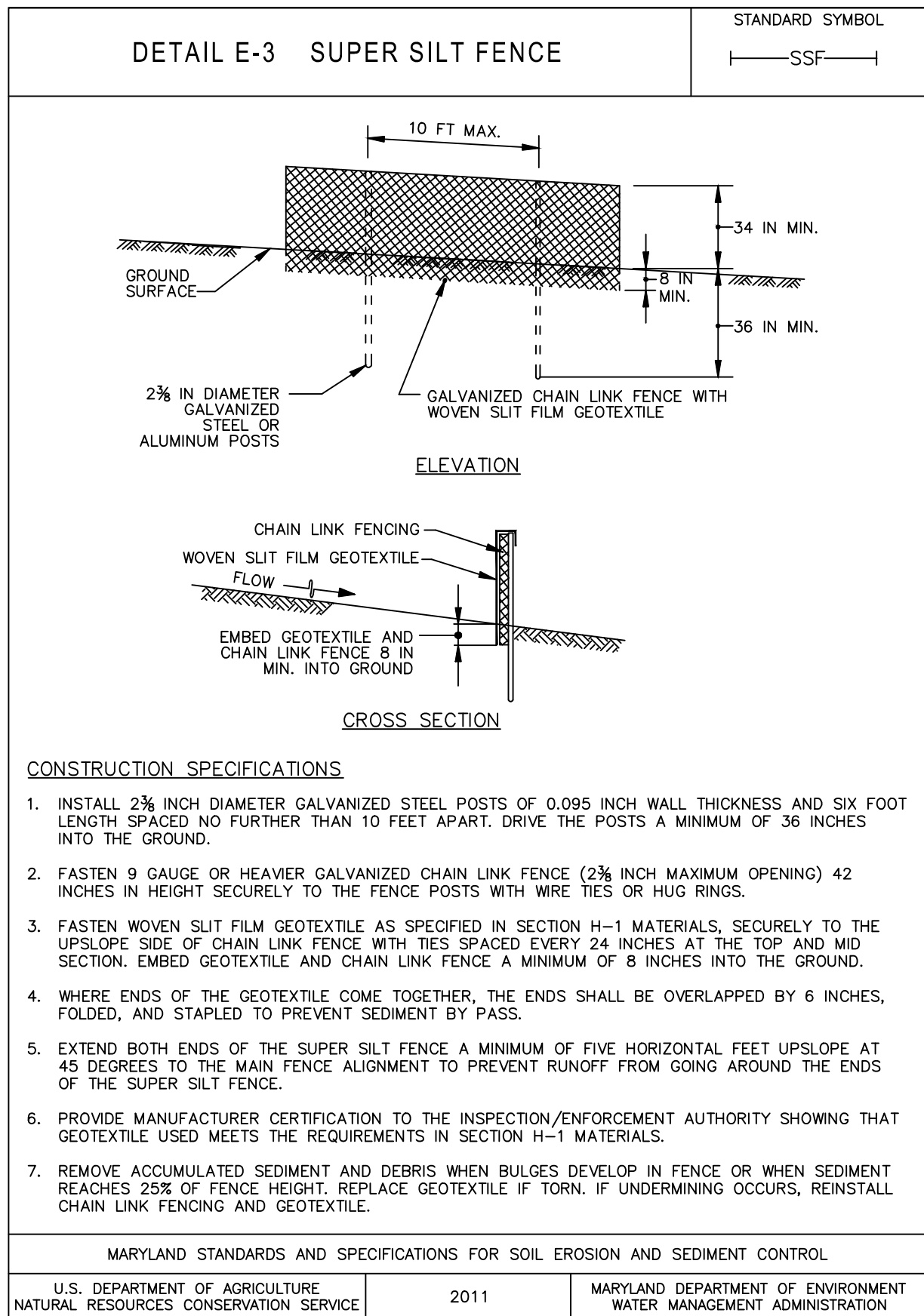
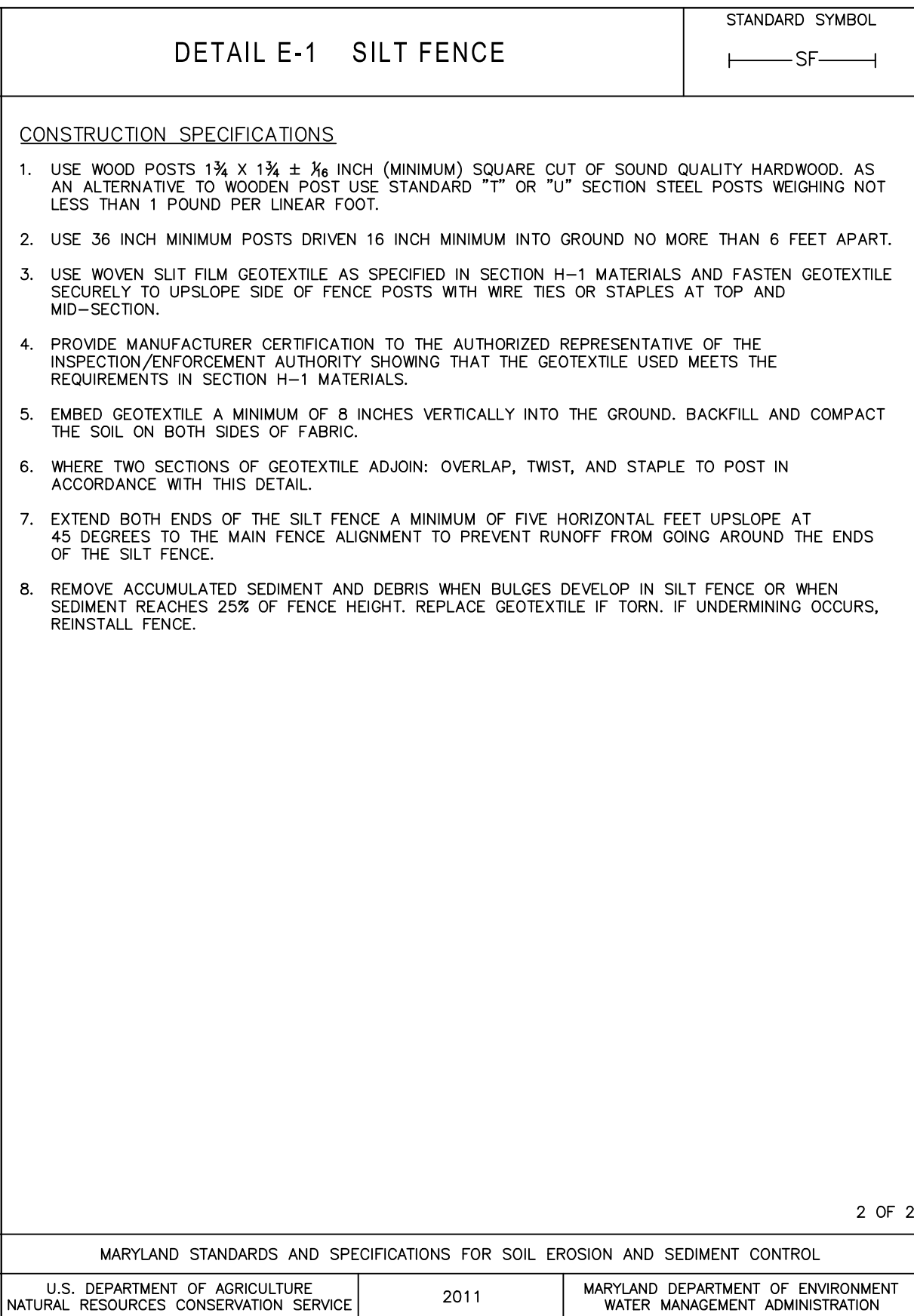
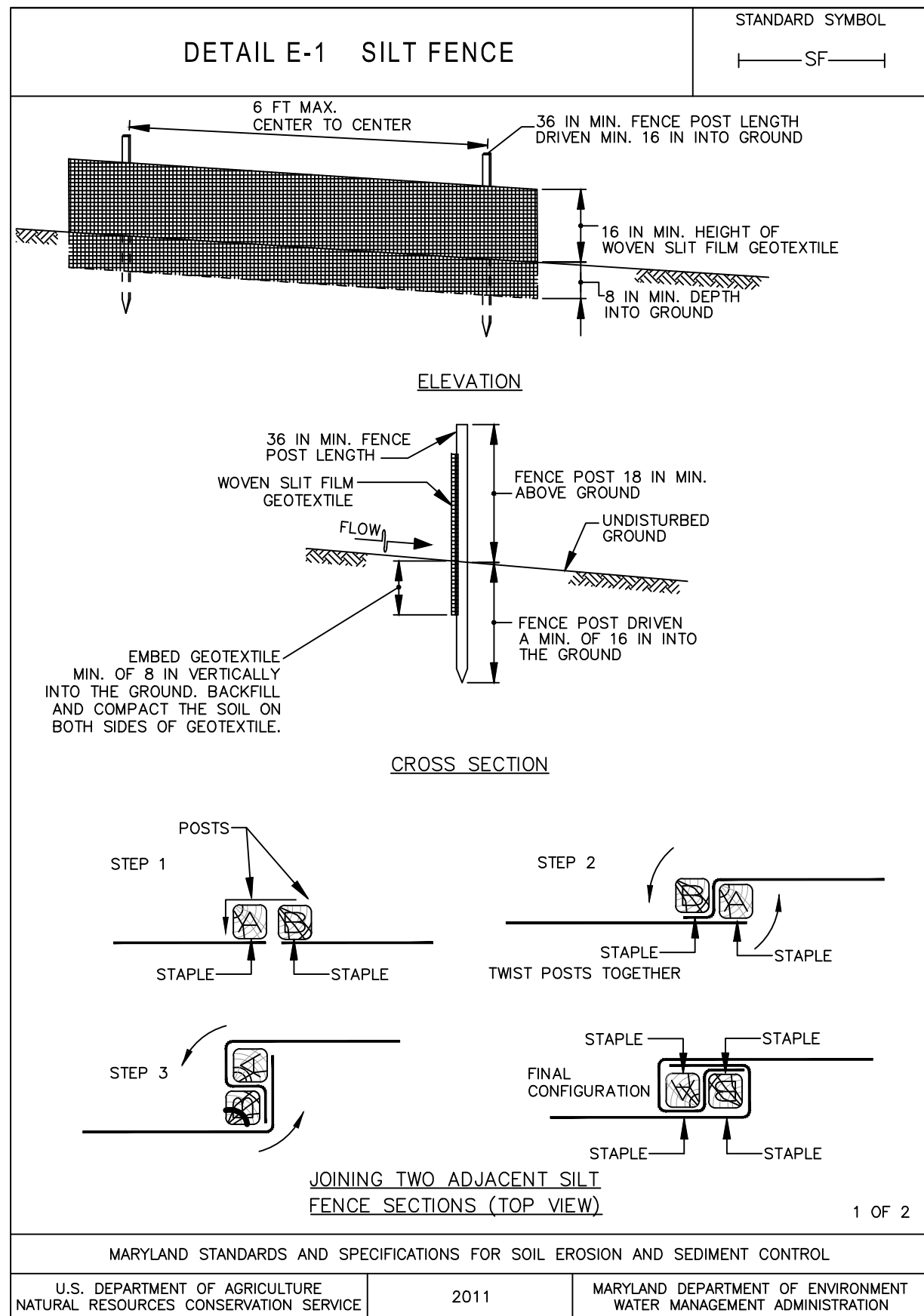
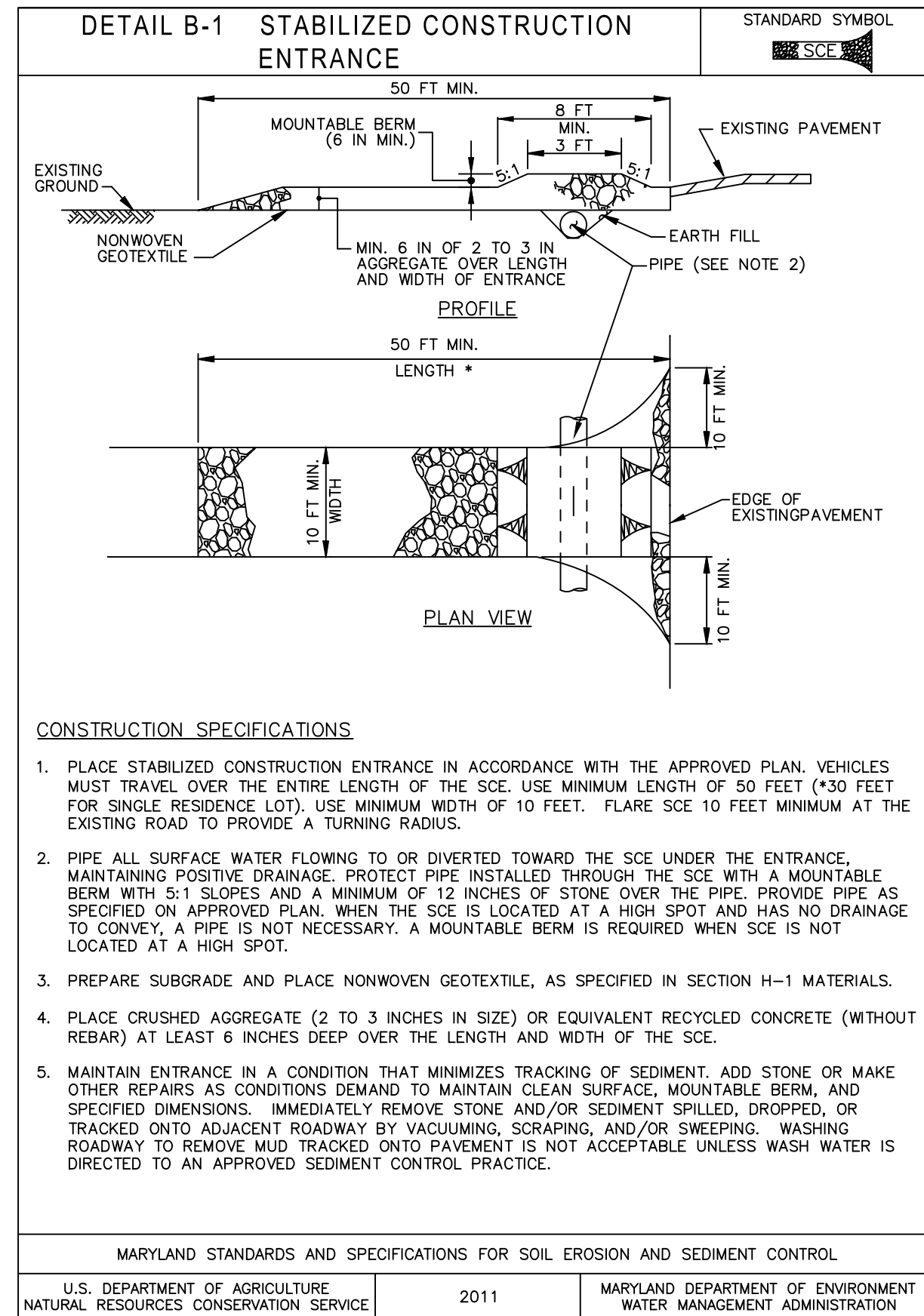
AS BUILT PLAN APPROVAL  
CHIEF, CONSTRUCTION MANAGEMENT APPROVAL DATE \_\_\_\_\_

**SCP2024-00002**  
**EROSION AND SEDIMENT CONTROL  
PLAN**

ROCKVILLE SWM & FITNESS CENTER  
OUTDOOR RECREATION POOL RENOVATIONS  
355 MARTINS LANE PARCEL 630  
Election District No. 4 City of Rockville, Maryland

DATE SUBMITTED: 2/7/2024  
SCALE 1"=20'  
SHEET NO. 2  
OF 4  
FILE #

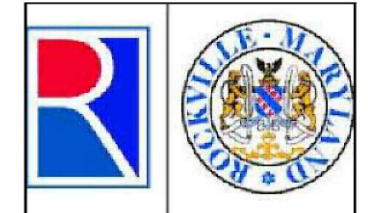




**CIVIL ENGINEER**  
CLARK AZAR & ASSOCIATES, INC.  
20440 CENTURY BLVD., SUITE 220  
GERMANTOWN, MD 20874

**OWNER/APPLICANT**  
CITY OF ROCKVILLE  
RECREATION AND PARKS DEPARTMENT  
CONTACT: ADAM GOLDSTEIN  
agoldstein@rockvillemd.gov  
240-314-8752  
355 MARTINS LANE  
ROCKVILLE, MARYLAND 20850

BEFORE BEGINNING CONSTRUCTION  
CONTACT  
"MISS UTILITY"  
AT  
WWW.MISSUTILITY.NET  
OR  
1-800-257-7777  
OR 811  
AT LEAST 48 HOURS  
PRIOR TO EXCAVATION



DEPARTMENT OF PUBLIC WORKS  
CITY OF  
ROCKVILLE  
MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED SL  
DRAFTED MS  
CHECKED JA

DIRECTOR OF PUBLIC WORKS	APPROVAL DATE
--------------------------	---------------

DESIGN PLAN APPROVAL	
	PWK# _____ SCP# <u>2024-00002</u>
	SMP# _____ REVIEWED BY _____
APPROVAL DATE _____	

AS BUILT PLAN APPROVAL	
<div style="border: 1px solid black; height: 40px; width: 100%;"></div>	
CHIEF, CONSTRUCTION MANAGEMENT	APPROVAL DATE

SCP2024-00002

EROSION AND SEDIMENT CONTROL  
DETAILS

ROCKVILLE SWIM & FITNESS CENTER  
OUTDOOR RECREATION POOL RENOVATIONS  
355 MARTINS LANE PARCEL 630

DATE SUBMITTED  
2/7/2024

SCALE  
1"=2000'

SHEET	FILE #
O. <u>3</u>	C-405
= <u>4</u>	

PROFESSIONAL CERTIFICATION:  
I hereby certify that these documents  
were prepared or approved by me, and  
that I am a duly licensed Professional  
Engineer under the laws of the State  
of Maryland, License No. 31168,  
Expiration Date: 1/12/2025



NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE
APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL					

**THIS PLAN IS FOR EROSION  
AND SEDIMENT CONTROL ONLY**







LSG LANDSCAPE  
ARCHITECTURE

8240 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



CLARK | AZAR & ASSOCIATES

20440 Century Blvd, Suite 220  
Germantown, MD. 20874  
T(301) 528-2010  
www.clarkazar.com

A Woman Owned Small Business



PROFESSIONAL  
CERTIFICATION:  
I CERTIFY THAT THESE  
DOCUMENTS WERE  
PREPARED OR APPROVED  
BY ME, AND THAT I AM A  
DULY LICENSED  
PROFESSIONAL  
ENGINEER UNDER THE  
LAWS OF THE STATE OF  
MARYLAND.

LICENSE NO.  
31168

EXPIRATION DATE:  
01/12/2025

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

UTILITY PLAN

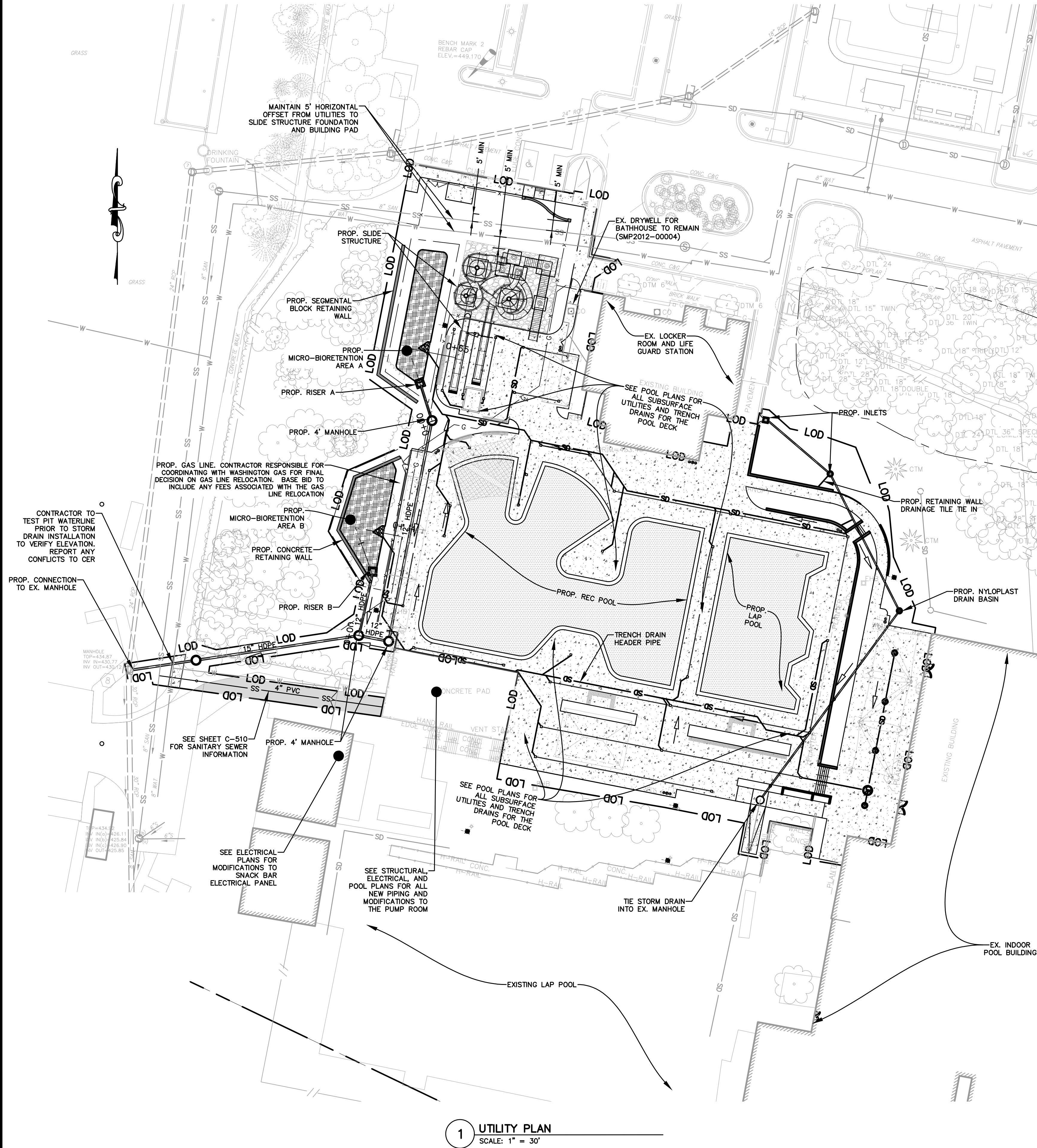
PERMIT SET

1	65% CONSTRUCTION DOCUMENT 06/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	PERMIT SET 12/08/2023

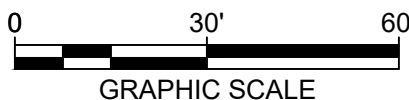
No.	Description	Date
Revisions		

Project Number: 22.00036.00  
Scale: 1" = 30'  
Drawn By: SL  
Checked By: JA  
Date: 02/08/2024

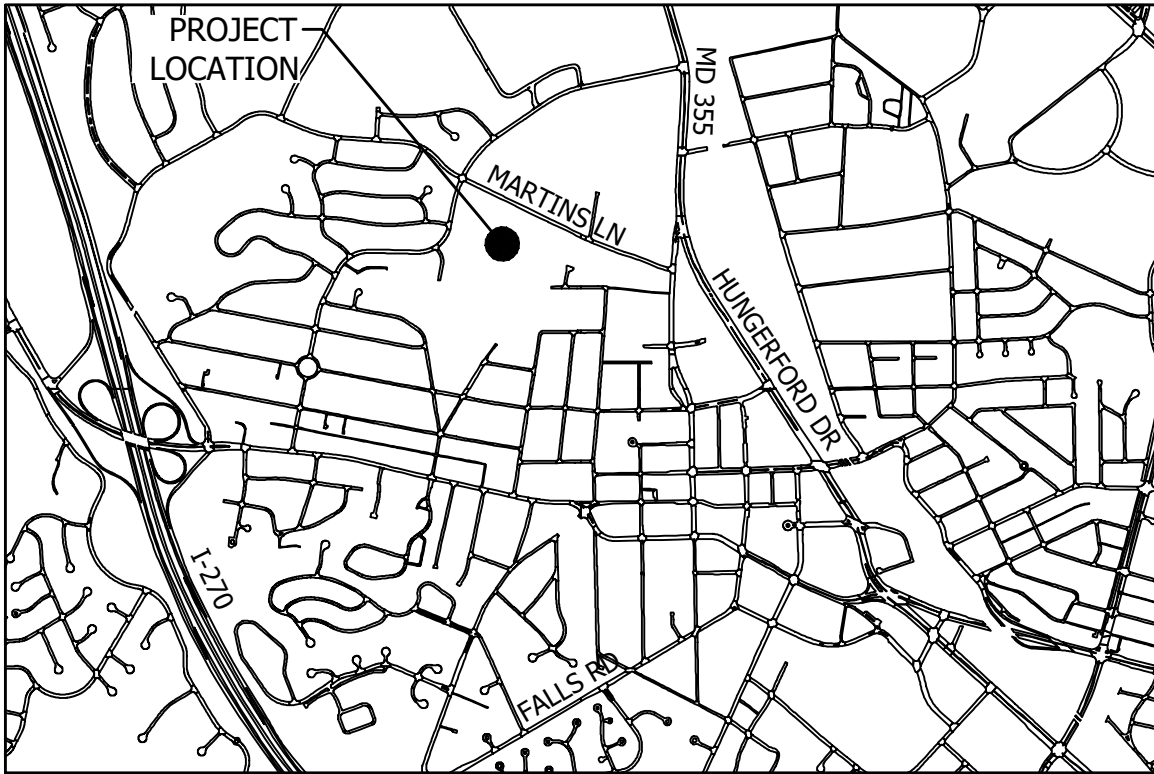
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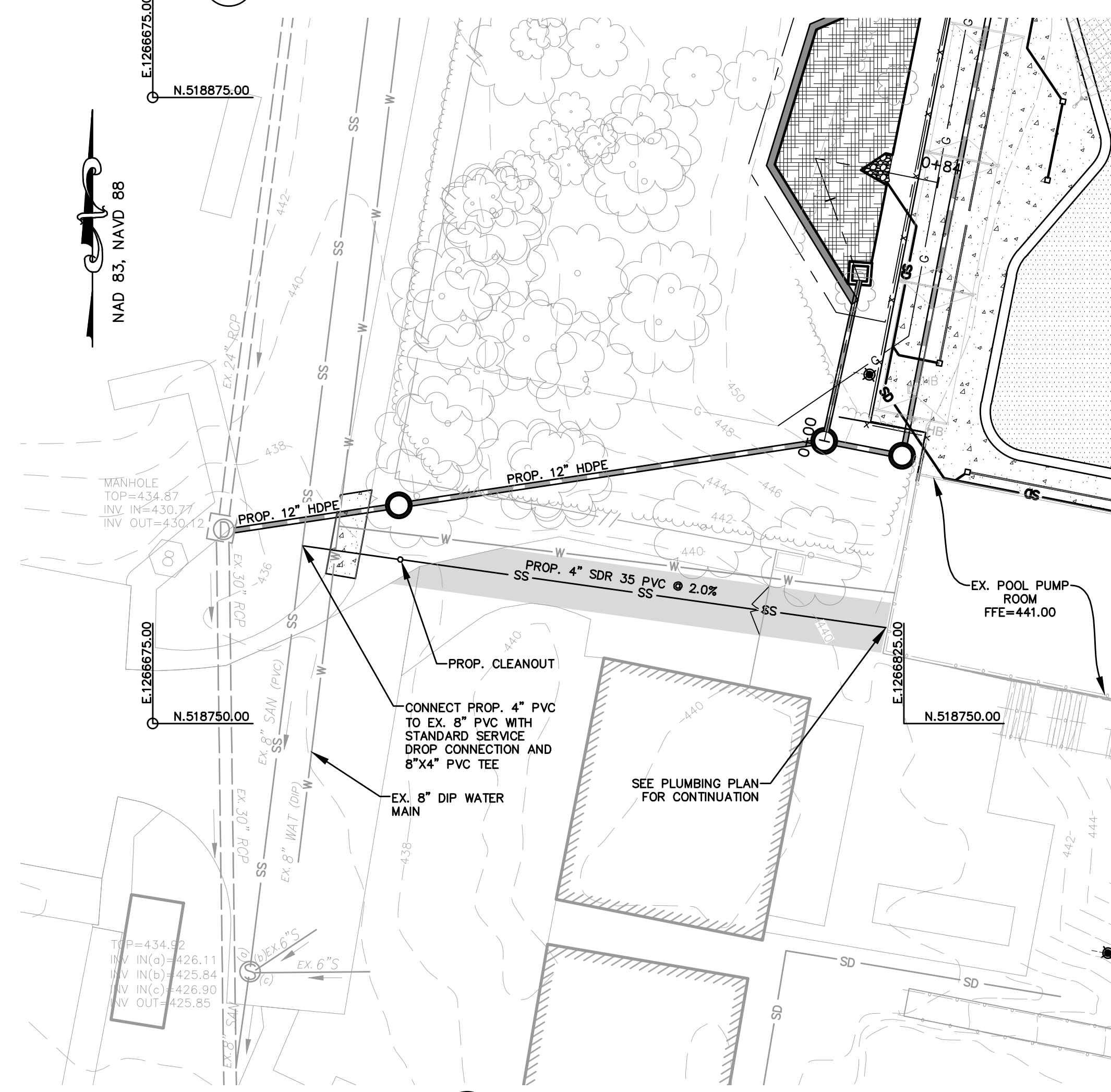
1 UTILITY PLAN  
SCALE: 1" = 30'



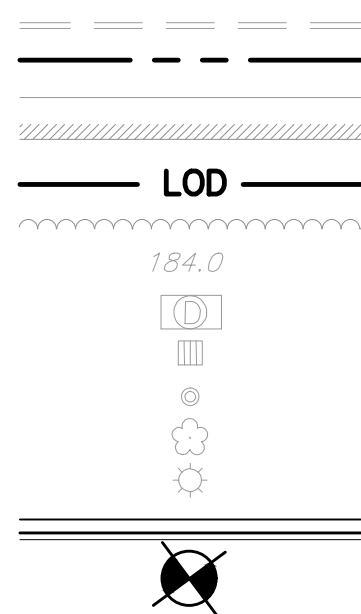




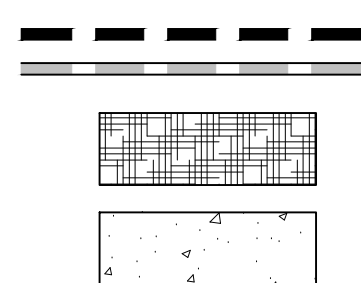
1 VICINITY MAP  
SCALE: 1" = 2000'



2 SANITARY SEWER PLAN  
SCALE: 1" = 20'



EXISTING CURB  
EXISTING PROPERTY LINE  
EXISTING EDGE OF PAVEMENT  
EXISTING BUILDING  
LIMITS OF DISTURBANCE  
EXISTING TREE LINE  
EXISTING GRADE ELEVATION  
EXISTING CURB INLET  
EXISTING GRATE INLET  
EXISTING MANHOLE  
EXISTING TREE  
EXISTING LIGHT POLE  
PROPOSED CURB & GUTTER  
SOIL BORING

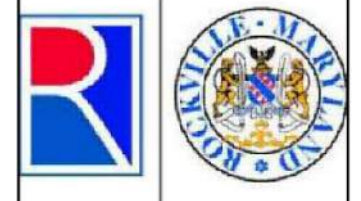


PROPOSED DRAINAGE AREA  
PROPOSED STORM DRAIN  
PROPOSED MICRO-BIORETENTION AREA  
PROPOSED CONCRETE SIDEWALK

CIVIL ENGINEER  
CLARK AZAR & ASSOCIATES, INC.  
20440 CENTURY BLVD., SUITE 220  
GERMANTOWN, MD 20874

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AT LEAST 48 HOURS  
PRIOR TO EXCAVATION



DEPARTMENT OF PUBLIC WORKS  
CITY OF  
ROCKVILLE  
111 MARYLAND AVE. ROCKVILLE, MARYLAND

DESIGNED \_SL\_  
DRAFTED \_MS\_  
CHECKED \_JA\_

DESIGN PLAN APPROVAL  
PWK# 2024-00048  
SMP# \_\_\_\_\_  
DIRECTOR OF PUBLIC WORKS APPROVAL DATE

SANITARY SEWER PIPE SCHEDULE		
SIZE	TYPE	LENGTH (FT)
4"	SDR 35 PVC	118

### WATER AND SEWER NOTES

September 2018

- All water and sewer construction shall be in accordance with the latest General Specifications and Standard Details of the Washington Suburban Sanitary Commission (WSSC), latest General Specifications and Standard Details of the Maryland State Highway Administration, and/or the City of Rockville Department of Public Works (DPW), unless otherwise noted.
- The Applicant must maintain all sediment control devices and ensure that all points of construction ingress and egress are protected as directed by DPW to prevent tracking of mud and dirt onto public rights-of-way (sidewalks, roads, etc.) or affecting adjacent areas.
- The Applicant shall not operate any valves located on the existing public system. Requests to operate valves must be submitted to Chief of Construction Management 48 hours in advance.
- Abandonment of water service connections and sewer service connections shall be made at the main line as directed by DPW. To abandon water service connections (two-inches or less), the tap hole is to be plugged with a brass plug and the valve and corporation must be removed at the main. All other house connections must be abandoned by cutting out the section of the water main and sleeving in a new pipe. To abandon sewer service connections, tees or saddles must be removed at the main and new pipe will be sleeved in.
- All public water and sewer mains to be placed out of service (existing and proposed) must be completely removed and disposed. Abandonment of utilities in place may be allowed as an exception, only if adequate justification is provided to the DPW - Engineering Division. If permitted, utilities abandoned in place must be completely filled with lean mix concrete or flowable fill, disconnected at the main, and capped on both ends.

**Shut downs to Existing Water System:** Any shutdown shall be made at hours determined by DPW in order to cause the least disturbance to existing customers. The Applicant shall notify the Chief of Construction Management in writing at least 18 calendar days prior to making the shutdown and submit for approval a schedule and method to complete the proposed shutdown and associated work. The Construction Management Division will notify the City Utilities Section at 240-314-8567 to arrange for valve operation. DPW must provide a minimum of two weeks of notice to affected properties. The shutdown will then be made at the designated time in accordance with the directions of the Chief of Construction Management. Test pit information on existing crossings must be provided a minimum of 48 hours prior to construction.

**Water Mains:** Materials for all water mains are to be ductile iron Pipe with Zinc Coating Pressure Class 350. All pipes are to be cement lined, minimum of 1/8-inch thick. All pipes and fittings are to be restrained, including all house connections four-inch and greater. All pipes are to be U.S. Pipe "TYTON

JOINT" or an approved equal. Water pipe shall be installed in accordance with WSSC Standard Details and Standard Specifications, Section 02510.

**Valves:** Valves shall conform to the latest AWWA Specifications and shall be a clockwise turn to close, mechanical joint. All valves shall be resilient seat gate valves. Valve box shall be the two-piece sliding type, adjustable and heavy duty domestic (Bingham & Taylor or approved equal). The covers shall say "WATER" only. Any valve cover/lid with the text "WSSC" will be rejected. Valves boxes for up to 36 inches in height shall weigh at least 75 pounds and valve lids shall weigh at least 14.5 pounds. Skirt size shall be two and a half inches.

**Fire Hydrants and Fire Hydrant Connections:** The Applicant must test pit all fire hydrant leads and valves before removing or replacing a hydrant to confirm existence or condition of strapping.

Fire hydrants shall be set two-feet behind the face of curb unless otherwise indicated on the drawing. Each hydrant shall be set exactly plumb, at the grade provided, and shall be joined to the fire hydrant connection at the foot of the barrel. Care shall be taken to place the steamer outlet normal to the street line and any hydrants placed askew shall be reset as required by the City.

Fire hydrants shall be firmly set in a bed of screened gravel, which shall extend one-foot below the bottom of the hydrant and be filled in and around it. The hydrant shall be firmly braced at the back, opposite the inlet pipe. The total amount of gravel used shall be at least 1/3 of a cubic yard. Fire hydrants shall not be blocked.

Fire hydrant connections of six-inch cement lined ductile iron pipe shall be laid at the points shown on the drawings and shall be extended either to fire hydrants to which they shall be connected or to such points as shall be designated. Fire hydrant connections shall be laid in all particulars in a similar manner to the water mains themselves.

Fire hydrants shall be Mueller or approved equal Traffic Model Types, which consists of break-away bolts, standpipes, and couplings. All fire hydrants shall be restrained to the water main using Mega-lok or approved equal. Hydrants shall be factory painted with two coats of rust-preventive paint. All hydrants barrels shall be painted Safety Yellow. The bonnet and three nozzles shall be color coded as per the National Fire Protection Association (NFPA) standards. The colors are based upon the hydrant's available fire flow and as determined by the Public Works Engineering Division:

FLOW	RUSTOLEUM ITEM #	COLOR
< 500 gpm	K776402	Safety Red
500 - 1,000 gpm	3455402	Safety Orange
1,000-1,500 gpm	3433402	Safety Green
>1,500 gpm	K7725402	Safety Blue
All barrels	245479	Safety Yellow

Fire hydrants shall be as listed in WSSC General Conditions/Standard Specifications, Section 02510.

Fire hydrants shall have 5-1/4-inch, three-way (two hose nozzles and one pumper nozzle), six-inch diameter mechanical joint inlet connection clockwise turn close, National Standard operating nut.

**Polyethylene Encasement:** All ductile iron pipe, fittings, and appurtenances shall be V-Bio enhanced polyethylene encased in accordance with AWWA C 105 method 'A' and WSSC specifications; section 02510. After the pipe has been assembled in trench, Applicant shall carefully inspect polyethylene encasement for damage and repair in accordance with AWWA C 105 and manufacturer's recommendations.

**Storage:** The Applicant shall store pipe and materials on site, so as not to damage the materials, and shall maintain such storage areas in a hazard free and safe condition at all times.

**Lubricants:** Lubricants shall be potable hydrogenated vegetable oil that is insoluble in cold water and does not impart taste or odor. The lubricant shall not contain detergents, soaps or organic solvent either aliphatic or aromatic and shall be certified as nontoxic to humans or animals. The lubricant shall be of a semi-paste consistency, which will readily stick to the inside of the bell of the pipe when applied by hand. It shall remain in a usable state through the temperature in which water pipe is normally installed.

**Water Service Connections:** Water service connections shall be 1-inch or two-inch Copper, Type "K," or four-inch, six-inch, or eight-inch ductile iron pipe Pressure Class 350 as determined by the Inspection Services Division for service flow demand and fire protection requirements. Any Copper connection between main and meter shall be one continuous length. All connections must be tapped, saddles are not allowed. No taps shall be allowed in the last five-feet of a dead-end main.

- Applicants must have a WSSC tapping license.
- Compression fittings are not allowed in the City of Rockville.

**Corporation stops:** Corporation stops shall be as per ASI/AWWA C800 with working and test pressures as per WSSC Specifications. The corporations shall be bronze (ASTM B62).

**Tap, sleeve and valve (T, S & V) assemblies:** All T, S, and V assemblies are to be hydro-tested and witnessed by DPW at the time of installation.

**Cover:** All water mains shall be installed with minimum three and a half feet of cover below finished grade or three-feet of cover below existing subgrade.

**Blocking for Existing Mains:** Block all existing fittings with concrete per plans and Standard WSSC Specifications and Standard Details. Mechanical joint fittings, bolts, etc. must be protected from concrete.

**Water Main Tests:** The Applicant shall accomplish low (six hour) and high pressure (two hour) tests in accordance with WSSC Standards and Specifications. Prior to connection connecting new water mains or on-site water systems to the existing public system, the Applicant will conduct a 24-hour bacterial test. Passing test results must be provided from a lab certified by the Maryland Department of the Environment and shall be in accordance with the Standard Methods for Examination of Water and Wastewater.

- The Applicant must not use existing or new water mains or appurtenances for temporary restraint or support during pressure tests.
- Back flow prevention is required when testing a new main as per WSSC specifications.

**Water Meters:** Water meters shall be located one-foot behind the property line in a grass area. Water meters shall not be located in private driveways or aprons. Yoke angle valves should be compatible with Ford 500 series meter yokes.

**Material Requirements for Sewer:** DPW shall accept the following materials for the construction of the main line sewer, except as otherwise specified on the plans:

- Pipes four-inches through 15-inches in diameter:
  - Polyvinyl chloride pipe (PVC) meeting ASTM D3034-78, wall thickness SDR 35, joints shall be watertight.
- Pipes 18-inches and greater:
  - Ductile Iron, Pressure Class 350, cement lined minimum 1/8-inch thick with US Pipe TYTON JOINT or approved equal;
  - Polyvinyl chloride pipe (PVC) meeting ASTM F679, thickness T-1, joints shall be watertight.

Ductile Iron Pipe may be used under special conditions such as steep slopes or stream crossings.

Pipe for sewer house connections shall be four-inch polyvinyl chloride pipe and fittings as specified above, and shall be connected to the main line by the use of tees.

Flexible gaskets shall be used for connections to precast and existing manholes, and shall be A lock as manufactured by Atlantic Precast Concrete, Inc. or equal.

Mortar used in the installation of A Locks or the filling of any void in manholes walls, inside and out, shall be quick setting, non-shrink such as Octocrete, Speedcrete, Permacrete, or equal.

**Installation of Sanitary Sewer:** Sewer pipe shall be installed in accordance with WSSC Standard Details and Specifications, Section 02530. Hydro-hammers may not be used within three-feet of the top of pipe. Exercise care to ensure adequate compaction around structures and prevent damage to pipe at connections to manholes.

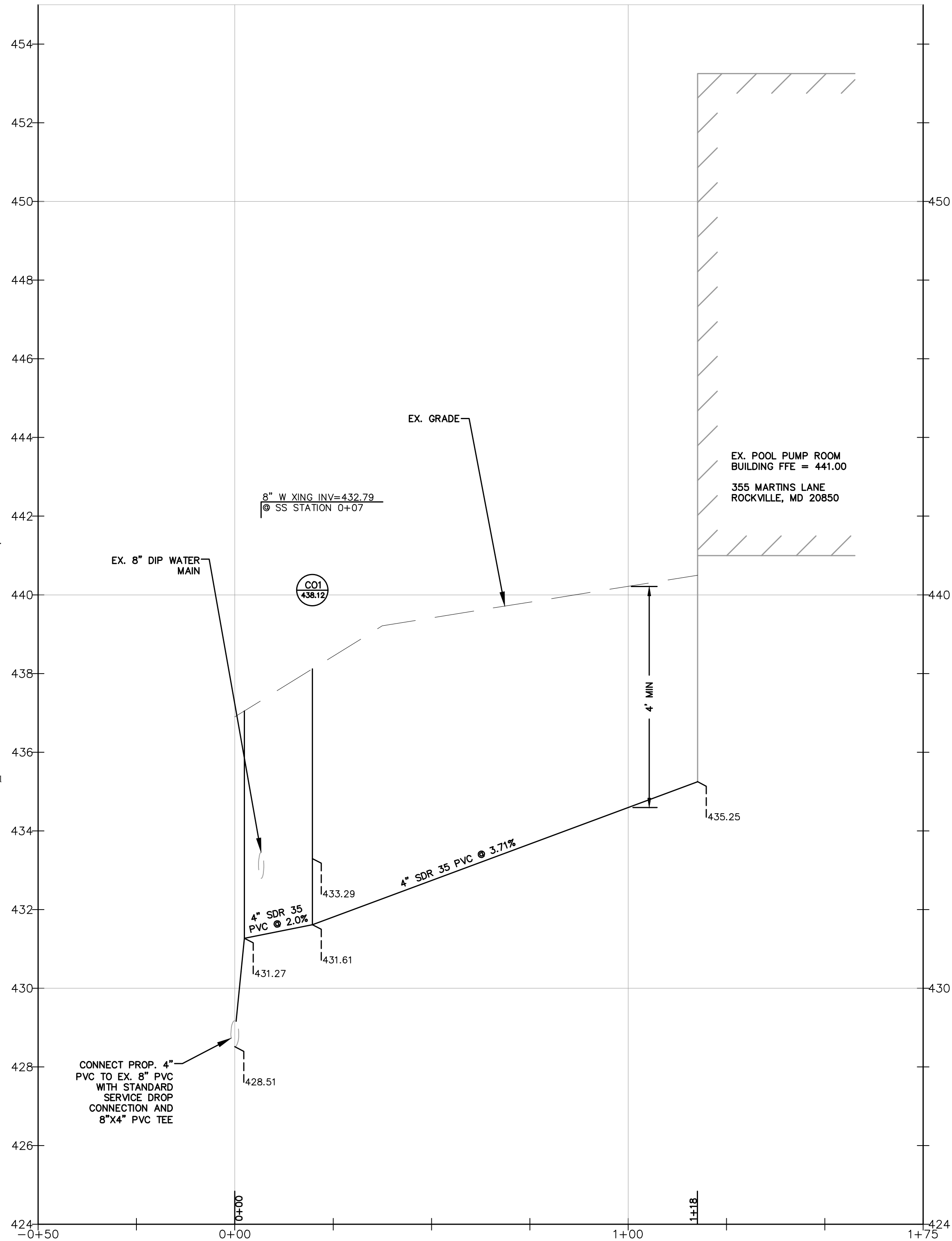
Horizontal deflection of pipe shall be accomplished in accordance with manufacturer's specifications.

**Connection to Existing Sewers and Manholes:** Connections must be as per WSSC Standard Details and Specifications, Section 02530.

**Sewer Main Pressure Tests:** The Applicant shall accomplish pressure tests in accordance with WSSC Standards and Specifications. DPW reserves the right to video the sewer main for quality control purposes.

**Cleanouts:** Cleanouts are to be installed on each sewer service connection and be located at the property line, in a grass area. Cleanout caps shall be cast iron with a brass plug. Provide concrete cleanout blocks on all sewer service connections at bottom of cleanout per WSSC Standard Details.

When drop connections from the building are to be used at the property line cleanout, the "Y" of the cleanout shall be encased per WSSC Standard Details and Standard Specifications.



3 SANITARY SEWER PROFILE  
SCALE: 1" = 20' (HOR) 1" = 2' (VER)

PROFESSIONAL CERTIFICATION:  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No. 31168, Expiration Date: 1/12/2025.

JASON AZAR  
NAME



NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE
APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL					
DATE SUBMITTED: 2/7/2024					
SCALE: 1"=20'					
SHEET NO. 1 OF 1					
FILE #					

THIS PLAN IS FOR PUBLIC  
IMPROVEMENTS ONLY

PWK2024-00048

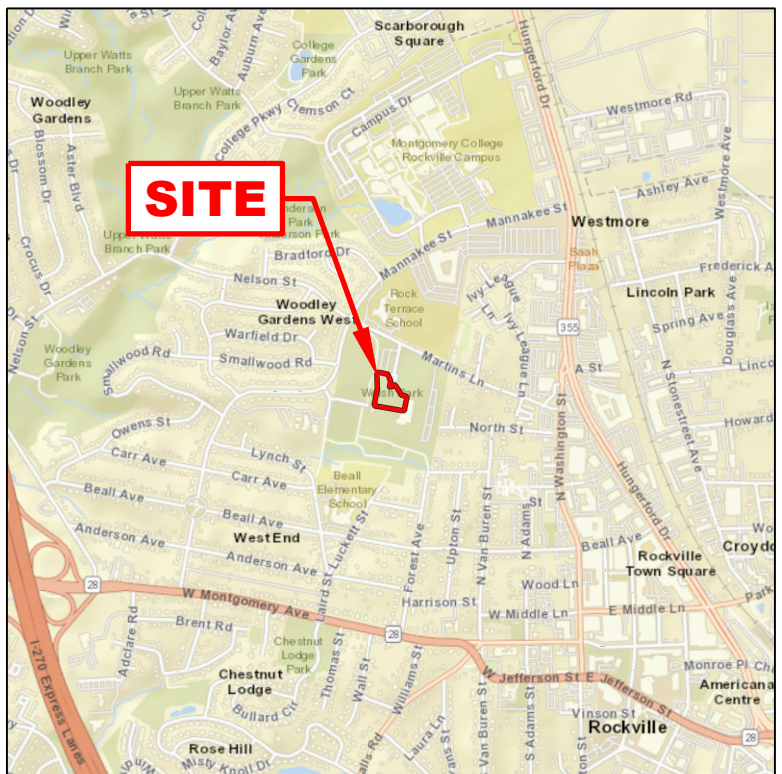
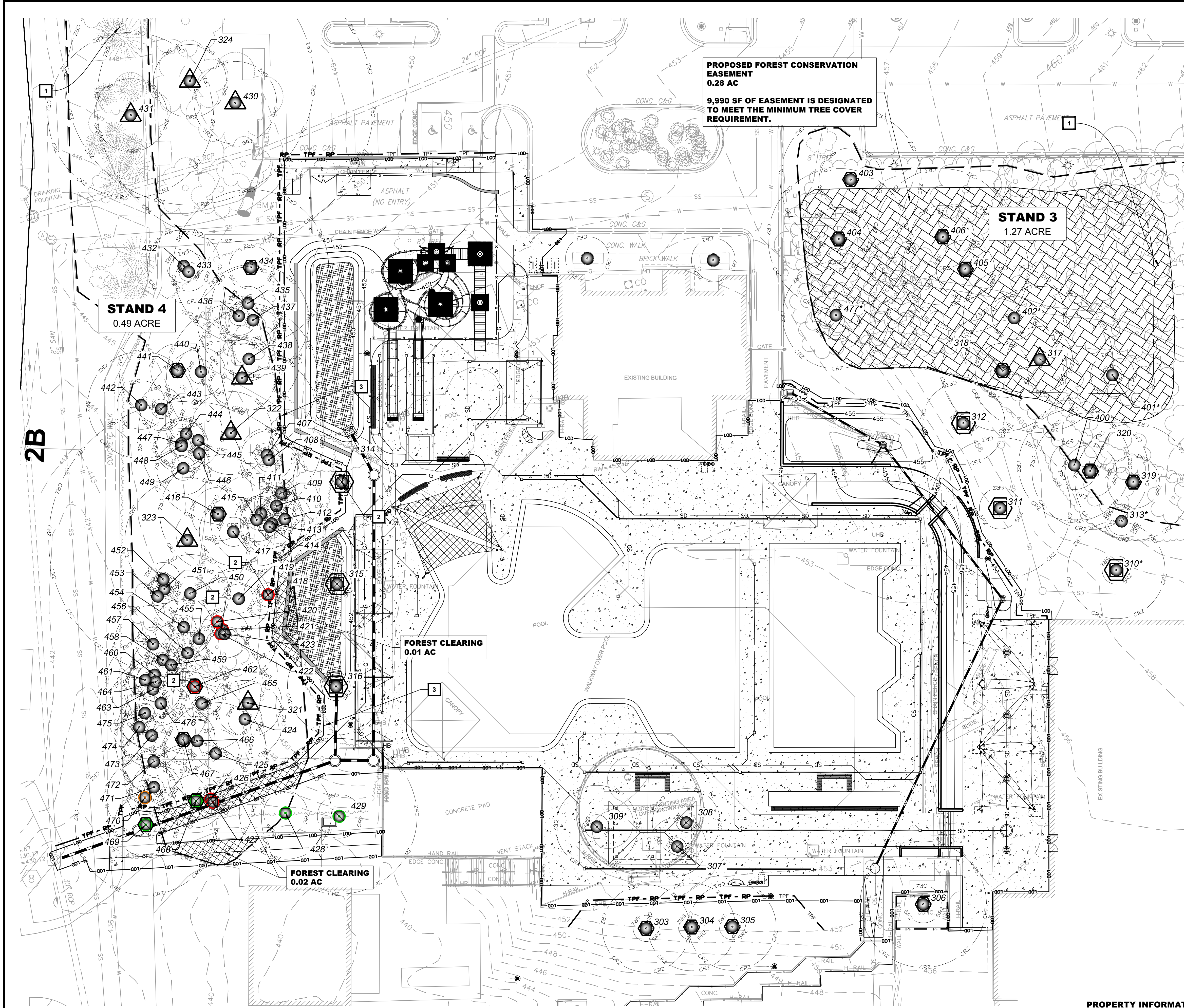
SANITARY SEWER PLAN AND PROFILE

ROCKVILLE SWIM & FITNESS CENTER  
OUTDOOR RECREATION POOL RENOVATIONS  
355 MARTINS LANE PARCEL 630

Election District No. 4 City of Rockville, Maryland

DATE SUBMITTED:	SCALE	SHEET	FILE #
2/7/2024	1"=20'	NO. 1	
		OF 1	

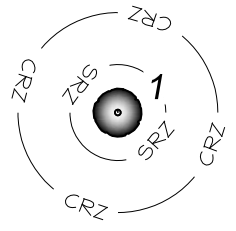




VICINITY MAP

1" = 2000'

LEGEND



EXISTING TREE WITH CRITICAL ROOT ZONE (CRZ) & STRUCTURAL ROOT ZONE (SRZ)



SPECIMEN TREE (≥30 IN. DBH)



SIGNIFICANT TREE (≥24 IN. DBH - FOREST, ≥12 IN. DBH - LANDSCAPE)



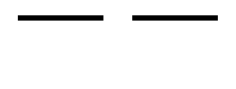
REPLACEMENT TREE FROM PREVIOUSLY APPROVED FCP



TREE TO BE REMOVED



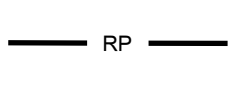
TREE TO BE REMOVED BY ARBORIST (SEE NOTES ON SHEET LJ-2)



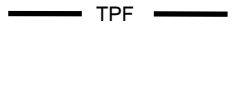
FOREST STAND BOUNDARY



EXISTING TREELINE



PROPOSED LOD



PROPOSED ROOT PRUNING (SEE DETAILS & SPECIFICATIONS)



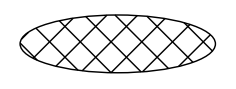
PROPOSED TREE PROTECTION FENCE (SEE DETAILS & SPECIFICATION)



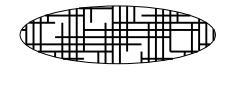
PROPERTY LINE



SOILS BOUNDARY



STEEP SLOPES 15 TO 25%



STEEP SLOPES 25% AND GREATER



FOREST TO BE CLEARED



BIORETENTION AREA



PROPOSED FOREST CONSERVATION EASEMENT

KEYNOTES

- FOREST STAND CONTINUES OFF TRACT
- TREES WITHIN FOREST AREA TO BE REMOVED BY ARBORIST WITH MINIMAL DAMAGE TO ADJACENT TREES' CRZs. SEE NOTE ON SHEET LJ-2. (TYP.)
- SUPER SILT FENCE TO BE INSTALLED AT LOD AROUND FOREST STAND. REFER TO EROSION AND SEDIMENT CONTROL PLAN ON SHEET C-400. (TYP.)

QUALIFIED PROFESSIONAL CERTIFICATION

THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS OF THE CITY OF ROCKVILLE'S CODE AND THE ENVIRONMENTAL TECHNICAL MANUAL.

SIGNED: *Cene Ketcham* DATE: 5/25/2023

CENE KETCHAM  
WETLAND STUDIES & SOLUTIONS, INC.  
1131 BENFIELD BOULEVARD, SUITE L  
MILLERSVILLE, MD 21108  
PH: 703-679-5723 FAX: 410-672-5993  
EMAIL: CKETCHAM@WETLANDS.COM

PROPERTY INFORMATION

PARCEL NUMBER: P630  
ACCOUNT NUMBER: 00151518  
ADC MAP/GRID: MAP 29, GRID A5  
TAX MAP: GR23  
WSSC GRID: 219NW08  
TOTAL ACRES: 21.8 AC

LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM & FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



OUTDOOR RECREATION POOL RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

FINAL FCP

Plan View

100% CONSTRUCTION DOCUMENT

1 Per Conditions of Approval 02/18/2024

No. Description Date

Revisions

Project Number: P.WS18001830

Scale: 1"=30'

Drawn By: LY, CK

Checked By: CK

Date: 2/6/2024

Sheet No. LJ-1

NFC



CITY OF ROCKVILLE FOREST CONSERVATION WORKSHEET February 2010

NET TRACT AREA = LOD AREA

A. Total tract area (LOD Area) ...

1.53

B. Deductions (land dedication not in construction on this plan, other deductions - specify)

0.00

C. Net Tract Area .....

=

1.53

LAND USE CATEGORY:

ZONING: R-400, R-200 R-90, R-75, RMD10, I-L, I-H, RPR, RPC, Park

Place a "1" 20%A, 30%C R-60, R-150 RMD15, MXT, MXC, MXNC, 15%A,

under the 15%A, RMD25 MxB, MxE, MXCD, 20%C

column 25%C 15% A&C MXTD 15%A&C

corresponding

to the correct

zone of the

site

Zone: 0 0 0 0 1

(choose only one)

D. Afforestation Threshold ...

15%

x F =

0.23

E. Conservation Threshold ...

20%

x F =

0.31

EXISTING FOREST COVER:

F. Existing forest cover (within net tract) .....

=

0.03

G. Area of forest above conservation threshold .....

=

0.00

BREAK EVEN POINT:

H. Breakeven Point (amount of forest retained so that no mitigation is required)....=

0.03

I. Clearing permitted without mitigation .....

=

0.00

PROPOSED FOREST CLEARING:

J. Total area of forest to be cleared .....

=

0.03

K. Total area of forest to be retained .....

=

0.00

PLANTING REQUIREMENTS:

L. Reforestation for clearing above conservation threshold .....

=

0.00

M. Reforestation for clearing below conservation threshold .....

=

0.08

N. Credit for retention above conservation threshold .....

=

0.00

P. Total reforestation required .....

=

0.08

Q. Total afforestation required .....

=

0.20

R. Total planting requirement .....

=

0.28

PLANTING REQUIREMENT NOTES

- VERY LIMITED OPPORTUNITIES FOR REFORESTATION EXIST ON THE SITE DUE TO ITS USE AS A PUBLIC POOL. WE PROPOSE MEETING THE 0.28-ACRE (12,196.8 SF) REPLANTING REQUIREMENT BY PLACING A PORTION OF STAND 3 INTO A FOREST CONSERVATION EASEMENT.

NNI CHART- PER CITY LIST			
SCIENTIFIC	COMMON	LOCATION	% COVERAGE OF SITE
<i>Lonicera japonica</i>	Japanese honeysuckle vine	Stand 3 & 4	10%
<i>Celastrus orbiculatus</i>	Oriental bittersweet	Stand 3 & 4	40%
<i>Hedera helix</i>	English ivy	Stand 4	30%
<i>Lonicera maackii</i>	Bush Japanese honeysuckle	Stand 3 & 4	40%
<i>Rosa multiflora</i>	Multiflora rose	Stand 3	25%
<i>Pyrus calleryana</i>	Callery pear	Stand 3	5%
DATE NNI INVENTORY CONDUCTED : 7/31/2019 and 10/25/2022			

SOILS CHART				
MAP UNIT SYMBOL	MAP UNIT NAME	K FACTOR/ WHOLE	HIGH ERODIBILITY (V/N)*	HYDRIC INCLUSION %
2B	Glenelg silt loam, 3 to 8 % slopes	0.37	NO	0
65B	Wheaton silt loam, 0 to 8 percent slopes	0.43	YES	0

MINIMUM TREE COVER			
TRACT AREA SF	ZONING	MTC REQUIRED %	MTC SF REQUIRED
66,594.12	Park	15	9,989.12

RESOURCE DATA TABLE (INFORMATION TO BE SHOWN IS SQUARE FEET)	TOTAL AREA	IMPACTED AREA	NOT IMPACTED	REFORESTATION OR REFORESTATION	CLEARED FOREST
PRIORITY FOREST	0	0	0	N/A	N/A
NON-PRIORITY FOREST	1090.6	1090.6	0	N/A	1090.6
FORESTED WETLAND	0	N/A	N/A	N/A	N/A
NON-FORESTED WETLAND	0	N/A	N/A	N/A	
FORESTED FLOODPLAIN	0	N/A	N/A	N/A	N/A
NON-FORESTED FLOODPLAIN	0	N/A	N/A	N/A	
FORESTED STREAM VALLEY BUFFER	0	N/A	N/A	N/A	N/A
NON-FORESTED STREAM VALLEY	0	N/A	N/A	N/A	

FOREST STAND NARRATIVE

**NOTE:** THE FOLLOWING TEXT IS ADAPTED FROM THE EXISTING APPROVED PLAN FOR "ROCKVILLE SKATE PARK," PREPARED BY DEPARTMENT OF PUBLIC WORKS, CITY OF ROCKVILLE AND DATED 05/05/2020. SEE GENERAL NOTE #1.

STAND 3 IS LOCATED BETWEEN THE SWIM AND FITNESS CENTER AND THE SKATE PARK. THIS STAND IS DOMINATED BY LIRIODENDRON TULIPIFERA. THE UNDERSTORY CONTAINS SASSAFRAS ALBIDUM, RUBUS SPP, VIBURNUM SPP, ACER RUBRUM, AND PRUNUS SEROTINA. INVASIVES ARE SPREAD THROUGHOUT THE STAND, INCLUDING CELATRUS ORBICULATUS, LIGUSTRUM JAPONICUM, LONICERA JAPONICA, LONICERA MAACKII, ROSA MULTIFLORA, AND PYRUS CALLERYANA.

STAND 4 IS LOCATED TO THE WEST OF THE SITE, AND IS DOMINATED BY LARGE LIRIODENDRON TULIPIFERA TO THE SOUTH WITH PINUS STROBUS IN THE NORTH HALF OF THE STAND. INVASIVE SPECIES INCLUDE CLEASTRUS ORBICULATUS, HEDERA HELIX, LONICERA JAPONICA, AND LONICERA MAACKII.

REMOVAL BY ARBORIST

1. TREES DESIGNATED AS "REMOVAL BY ARBORIST" (E.G., TREES SHOWN FOR REMOVAL WITHIN FOREST STANDS) SHALL BE REMOVED BY A QUALIFIED ARBORIST "BY HAND", TO MINIMIZE POTENTIAL FOR DAMAGE TO REMAINING TREES AND ROOTS.
2. CREWS SHALL BE DIRECTLY SUPERVISED BY A CERTIFIED ARBORIST.
3. TRUCKS AND MECHANIZED EQUIPMENT SHALL NOT ENTER THE FENCED TREE PROTECTION AREAS, EXCEPT WHERE EXPLICITLY APPROVED BY THE PROJECT ARBORIST AND BY CITY OF ROCKVILLE FORESTRY INSPECTOR AND UTILIZING APPROVED ROOT PROTECTION DEVICE.
4. STUMPS SHALL BE LEFT IN PLACE OR GROUND OUT AT THE OWNERS DISCRETION. STUMPS IN TURF/LANDSCAPE AREAS OR WITHIN ROOT AERATION MATTING AREAS SHALL BE GROUND.
5. STUMP GRINDING SHALL BE DONE WITH SMALL MACHINES SPECIFICALLY DESIGNED FOR THAT PURPOSE. NO STUMPS SHALL BE EXCAVATED EXCEPT AS DESCRIBED HEREIN. STUMPS SHALL BE GROUND NOT MORE THAN 8" BELOW GRADE AND CARE MUST BE TAKEN TO MINIMIZE DAMAGE TO ROOTS OF RETAINED TREES.

GENERAL NOTES

1. PER EMAIL FROM SHAUN RYAN DATED OCTOBER 18, 2022, MUCH OF THE INFORMATION PRESENTED IN THIS NRI/FSD IS DERIVED FROM THE EXISTING APPROVED PLAN FOR "ROCKVILLE SKATE PARK," PREPARED BY DEPARTMENT OF PUBLIC WORKS, CITY OF ROCKVILLE AND DATED 05/05/2020. FIELD WORK PERFORMED BY WETLAND STUDIES AND SOLUTIONS, INC. (INC.) VERIFIED THE EXISTING INFORMATION THROUGH A SAMPLE PLOT AND OBSERVATIONS OF FOREST STAND COMPOSITION. NO SIGNIFICANT DIFFERENCES IN FOREST STANDS WERE NOTED. INDIVIDUAL TREES WERE RE-ASSESSED AT THIS TIME.
2. TREES WITH AN ASTERISK (\*) HAVE NOT BEEN SURVEY LOCATED. THEIR LOCATIONS WERE ESTIMATED IN THE FIELD AND USING AERIAL IMAGERY, AND THEIR LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.
3. TOTAL SITE AREA: 1.53 ACRES
4. CURRENT ZONING: PARK
5. WATERSHED THAT THE SITE IS IN: WATTS BRANCH
6. THE PROPERTY IS NOT LOCATED WITHIN A MAPPED 100-YEAR FLOODPLAIN PER FEMA DIGITAL FLOOD INSURANCE RATE MAP, PANEL 24031C0333D
7. NO STREAMS ARE LOCATED ON OR WITHIN 100 FEET OF THIS SITE.
8. NO WETLANDS OR OTHER WATERS OF THE U.S. FEATURES ARE LOCATED ON OR WITHIN 50 FEET OF THIS SITE.
9. NO RARE, THREATENED, OR ENDANGERED SPECIES WERE OBSERVED ON THE SITE DURING THE SITE INVESTIGATION. THE MARYLAND DEPARTMENT OF NATURAL RESOURCES - WILDLIFE AND HERITAGE SERVICE PERFORMED A REVIEW AND FOUND NO OFFICIAL RECORDS FOR STATE OR FEDERAL LISTED, CANDIDATE, PROPOSED, OR RARE PLANT OR ANIMAL SPECIES WITHIN THE PROJECT AREA PER A LETTER DATED 4/13/2023 (SEE SHEET 2).
10. DBH MEASURED WITH A FORESTER'S DBH TAPE AT 4.5 FT ABOVE GRADE UNLESS OTHERWISE NOTED.
11. NO STATE OR COUNTY CHAMPION TREES AREA LOCATED ON OR ADJACENT TO THE SITE.
12. THIS PROPERTY IS NOT IDENTIFIED IN A HISTORIC DISTRICT AND IS NOT A BUILDING OR STRUCTURE OF HISTORIC SIGNIFICANCE IN THE ROCKVILLE LOCALLY-DESIGNATED HISTORIC DISTRICT DATABASE, ACCESSED 03/01/2023.
13. FIELD WORK PERFORMED BY CENE KETCHAM (ISA CERTIFIED ARBORIST MA-5812A, MARYLAND LTE #2475) OF WETLAND STUDIES AND SOLUTIONS, INC. (WSSI) ON 10/25/2022.
14. SOURCE AND DATE OF ACCESS FOR ANY DATA SHOWN ON PLAN WHICH WAS NOT COLLECTED AS PART OF THE PHYSICAL SURVEY (EX: DATA OF RECORD OBTAINED FROM WSSC, PEPCO, SOIL INFORMATION AVAILABLE FROM NRCS, SURVEY DATA PROVIDED BY A SURVEYOR, STEEP SLOPES FROM M-NCPPC, ETC.)
15. TREE INVESTIGATION EXTENDED 25 FT BEYOND PROPOSED LOD.

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



OUTDOOR  
RECREATION POOL  
RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

FINAL FCP

Tables

100%  
CONSTRUCTION  
DOCUMENT


No.	Description	Date
-----	-------------	------

Revisions

Project Number:	P.WS18001830
Scale:	N/A
Drawn By:	LY, CK
Checked By:	CK
Date:	2/6/2024

Sheet No.

LJ-2

**QUALIFIED PROFESSIONAL CERTIFICATION**  
THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS OF THE CITY OF ROCKVILLE'S CODE AND THE ENVIRONMENTAL TECHNICAL MANUAL.  
SIGNED:  DATE: 5/25/2023  
CENE KETCHAM  
WETLAND STUDIES & SOLUTIONS, INC.  
1131 BENFIELD BOULEVARD, SUITE L  
MILLERSVILLE, MD 21108  
PH: 703-679-5723 FAX: 410-672-5993  
EMAIL: CKETCHAM@WETLANDS.COM

NFC



TREE PROTECTION ACTION KEY (TPAK)

Tree #	DBH	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	REGULATED STATUS	Number of Stems	SRZ	CRZ1	CRZ	Removal	Removal By Arborist	Preservation Measures														Construction Notes	Assessment Notes	Setting	CRZ Loss Calculations			PFCP/FCP		
	(Diameter at 4.5 feet above ground)								Shrubland Critical Root Zone Radius in Feet	Critical Root Zone Radius in Feet (Forest Trees)	Critical Root Zone Radius in Feet (Landscape Trees)			Root Prune	Tree Protection Fence	Mulch	Year 1 Soil Care	Year 2 Soil Care	Special Demolition	Soil Restoration/Aeration	Tree Growth Regulator	Tree Condition Inspections	Watering	Temp Root Protection Matt	Root Aeration Matting	Construction Oversight/Monitoring	Canopy Prune				Area of CRZ Loss (SqFt)	Total CRZ Area (SqFt)	% CRZ Loss	Disposition (Save/Remove)	Replacement Reqt.	FC Crest 25% of CRZ
317	30	tuliptree	Liriodendron tulipifera	50%	Fair	NO	SPECIMEN	1	14	30																		No disturbance	Large inclusion. Included Bark/Weak Union, Co-Dominant Stems, Small Deadwood (1-2")	Forest	-	2,827	0.0%	SAVE	6	707
318	25	tuliptree	Liriodendron tulipifera	70%	Good	NO	SIGNIFICANT	1	11	25																		No disturbance	One Sided, Excessive Lean, Large Deadwood (3"+), Small Deadwood (1-2")	Forest	-	1,963	0.0%	SAVE	3	491
319	27	tuliptree	Liriodendron tulipifera	75%	Good	NO	SIGNIFICANT	1	12	27																		No disturbance	Poison ivy, One Sided, Large Deadwood (3"+), Small Deadwood (1-2"), Vines	Forest	-	2,290	0.0%	SAVE	3	573
320	24	tuliptree	Liriodendron tulipifera	75%	Good	NO	SIGNIFICANT	1	11	24																		No disturbance	Poison ivy, One Sided, Small Deadwood (1-2"), Vines	Forest	-	1,810	0.0%	SAVE	2	452
321	30.6	tuliptree	Liriodendron tulipifera	75%	Good	NO	SPECIMEN	1	14	31				X	X						X	X	X			X		Minor disturbance.	Poison ivy and English ivy, Small Deadwood (1-2"), Broken Limbs, Vines	Forest	141	2,942	4.8%	SAVE	6	735
322	38	tuliptree	Liriodendron tulipifera	45%	Fair	NO	SPECIMEN	1	17	38				X	X							X	X			X		Minor disturbance.	Hollow from base to high on the trunk. Basal Decay, Trunk Decay, Small Deadwood (1-2")	Forest	434	4,536	9.6%	SAVE	6	1,134
323	57	tuliptree	Liriodendron tulipifera	50%	Fair	NO	SPECIMEN	1	26	57				X	X							X	X			X		Minor disturbance.	Large, low branch heavily decayed. Sounding suggests decay in low trunk. Trunk Decay, Large Deadwood (3"+), Small Deadwood (1-2"), Branch Decay	Forest	597	10,207	5.8%	SAVE	6	2,552
400	23	tuliptree	Liriodendron tulipifera	65%	Good	NO		1	10	23																		No disturbance	One Sided, Large Deadwood (3"+), Small Deadwood (1-2")	Forest	-	1,662	0.0%	SAVE	2	415
401	9	dogwood, flowering	Cornus florida	55%	Fair	NO		1	4	9																		No disturbance	One Sided, Trunk Decay, Included Bark/Weak Union, Large Deadwood (3"+), Small Deadwood (1-2")	Forest	-	254	0.0%	SAVE	N/A	64
402	21	tuliptree	Liriodendron tulipifera	60%	Fair	NO		1	9	21																		No disturbance	One Sided, Small Deadwood (1-2"), Fungal Fruiting Bodies, Vines	Forest	-	1,385	0.0%	SAVE	2	346
403	29	tuliptree	Liriodendron tulipifera	70%	Good	NO	SIGNIFICANT	1	13	29																		No disturbance	Small Deadwood (1-2")	Forest	-	2,642	0.0%	SAVE	3	661
404	29	tuliptree	Liriodendron tulipifera	50%	Fair	NO	SIGNIFICANT	1	13	29																		No disturbance	Trunk Decay, Included Bark/Weak Union, Co-Dominant Stems, Large Deadwood (3"+), Small Deadwood (1-2")	Forest	-	2,642	0.0%	SAVE	3	661
405	16,16,12	tuliptree	Liriodendron tulipifera	40%	Poor	NO	SIGNIFICANT	3	12	26																		No disturbance	Buried Root Collar, Basal Decay, Included Bark/Weak Union, Co-Dominant Stems, Large Deadwood (3"+), Small Deadwood (1-2")	Forest	-	2,061	0.0%	SAVE	3	515
406	18,22	tuliptree	Liriodendron tulipifera	50%	Fair	NO	SIGNIFICANT	2	13	28																		No disturbance	Included Bark/Weak Union, Co-Dominant Stems, Large Deadwood (3"+), Small Deadwood (1-2")	Forest	-	2,538	0.0%	SAVE	3	635
407	11	locust, black	Robinia pseudoacacia	60%	Fair	NO		1	5	11				X	X													No disturbance	Excessive Lean, Included Bark/Weak Union, Large Deadwood (3"+), Small Deadwood (1-2"), Branch Decay	Forest	1	380	0.3%	SAVE	N/A	95
408	12	locust, black	Robinia pseudoacacia	60%	Fair	NO		1	5	12				X	X													No disturbance	Excessive Lean, Included Bark/Weak Union, Large Deadwood (3"+), Small Deadwood (1-2"), Branch Decay	Forest	2	452	0.4%	SAVE	1	113
409	6	cherry, black	Prunus serotina	65%	Good	NO		1	3	6																		No disturbance	Narrow Crown, Excessive Lean, Small Deadwood (1-2")	Forest	-	113	0.0%	SAVE	N/A	28
410	8	locust, black	Robinia pseudoacacia	65%	Good	NO		1	4	8																		No disturbance	Narrow Crown, Excessive Lean, Small Deadwood (1-2")	Forest	-	201	0.0%	SAVE	N/A	50
411	7	cherry, black	Prunus serotina	65%	Good	NO		1	3	7																		No disturbance	Excessive Lean, Included Bark/Weak Union, Small Deadwood (1-2")	Forest	-	154	0.0%	SAVE	N/A	38
412	11	cherry, black	Prunus serotina	50%	Fair	NO		1	5	11				X	X													No disturbance	Excessive Lean, Included Bark/Weak Union, Co-Dominant Stems, Small Deadwood (1-2")	Forest	-	380	0.0%	SAVE	N/A	95
413	10,8	locust, black	Robinia pseudoacacia	40%	Poor	NO		2	6	13				X	X													No disturbance	Excessive Lean, Included Bark/Weak Union, Co-Dominant Stems, Large Deadwood (3"+), Small Deadwood (1-2")	Forest	-	515	0.0%	SAVE	1	129
414	9	locust, black	Robinia pseudoacacia	50%	Fair	NO		1	4	9				X	X													No disturbance	Excessive Lean, Included Bark/Weak Union, Large Deadwood (3"+), Small Deadwood (1-2")	Forest	-	254	0.0%	SAVE	N/A	64
415	19	hickory, mockernut	Carya tomentosa	65%	Good	NO		1	9	19				X	X													No disturbance	Small Deadwood (1-2"), Vines	Forest	2	1,134	0.2%	SAVE	2	284
416	24	tuliptree	Liriodendron tulipifera	65%	Good	NO	SIGNIFICANT	1	11	24				X	X													No disturbance	One Sided, Large Deadwood (3"+), Small Deadwood (1-2")	Forest	-	1,810	0.0%	SAVE	2	452
417	14	maple, Norway	Acer platanoides	60%	Fair	NO		1	6	14																		No disturbance	Surface Roots, Included Bark/Weak Union, Large Deadwood (3"+), Small Deadwood (1-2"), Broken Limbs, Branch Decay	Forest	-	616	0.0%	SAVE	1	154
418	10	pear, Callery	Pyrus calleryana	40%	Poor	NO		1	5	10			X															SRZ disturbance. Invasive.	Included Bark/Weak Union, Large Deadwood (3"+), Small Deadwood (1-2"), Low Vigor, Vines	Forest	91	314	29.0%	REMOVE	N/A	79
419	13	cherry, black	Prunus serotina	65%	Good	NO		1	6	13				X	X													Minor disturbance.	Included Bark/Weak Union, Small Deadwood (1-2")	Forest	-	531	0.0%	SAVE	1	133
420	16	locust, black	Robinia pseudoacacia	0%	Dead	YES		1	7	16			X															Dead tree.		Forest	N/A	804	N/A	REMOVE	N/A	201
421	15	locust, black	Robinia pseudoacacia	0%	Dead	YES		1	7	15			X															Dead tree.		Forest	N/A	707	N/A	REMOVE	N/A	177
422	20	locust, black	Robinia pseudoacacia	0%	Dead	YES		1	9	20			X															Dead tree.		Forest	N/A	1,257	N/A	REMOVE	N/A	314
423	22	cherry, black	Prunus serotina	40%	Poor	NO		1	10	22				X	X													Minor disturbance.	not tagged. DBH estimated. Excessive Lean, Large Deadwood (3"+), Small Deadwood (1-2"), Vines	Forest	20	1,521	1.3%	SAVE	2	380
424	16	cherry, black	Prunus serotina	35%	Poor	NO		1	7	16																		No disturbance	2 longitudinal break on trunk. Excessive Lean, Included Bark/Weak Union, Large Deadwood (3"+), Small Deadwood (1-2")	Forest	-	804	0.0%	SAVE	1	201
425	20.7	cherry, black	Prunus serotina	55%	Fair	NO		2	10	21				X	X							X						Minor disturbance.	Excessive Lean, Included Bark/Weak Union, Co-Dominant Stems, Large Deadwood (3"+), Small Deadwood (1-2"), Vines	Forest	108	1,411	7.6%	SAVE	2	353
426	6	locust, black	Robinia pseudoacacia	40%	Poor	NO		1	3	6			X															Remove for construction.	Trunk Decay, Large Deadwood (3"+), Small Deadwood (1-2"), Fungal Fruiting Bodies, Vines	Forest	76	113	67.4%	REMOVE	N/A	28
427	7	mulberry, white	Morus alba	40%	Poor	NO		1	3	7			X															Remove for construction.	Basal Decay, Trunk Decay, Broken Limbs, Vines	Forest	154	154	100.0%	REMOVE	N/A	38
428	19	tuliptree	Liriodendron tulipifera	65%	Good	NO		1	9	19			X															Excavation to edge of SRZ. Remove for construction.	Insect/Disease Problem	Forest	219	1,134	19.3%	REMOVE	2	284
431	34	tuliptree	Liriodendron tulipifera	55%	Fair	NO	SPECIMEN	1	15	34																		No disturbance	Included Bark/Weak Union, Large Deadwood (3"+), Small Deadwood (1-2")	Forest	-	3,632	0.0%	SAVE	6	908
432	15	cherry, black	Prunus serotina	65%	Good	NO		1	7	15																		No disturbance	Narrow Crown, Small Deadwood (1-2")	Forest	-	707	0.0%	SAVE	1	177
433	8	locust, black	Robinia pseudoacacia	40%	Poor	NO		1	4	8																		No disturbance	Basal Decay, Trunk Decay, Large Deadwood (3"+), Small Deadwood (1-2"), Broken Limbs, Vines	Forest	-	201	0.0%	SAVE	N/A	50
435	15	cherry, black	Prunus serotina	55%	Fair	NO		1	7	15				X	X													No disturbance	DBH estimated. no access due to locked gate. Narrow Crown, Trunk Decay	Forest	-	707	0.0%	SAVE	1	177

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



OUTDOOR  
RECREATION POOL  
RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

FINAL FCP

Tree Table (TPAK)

100%  
CONSTRUCTION  
DOCUMENT

QUALIFIED PROFESSIONAL CERTIFICATION  
THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS  
OF THE CITY OF ROCKVILLE'S CODE AND THE  
ENVIRONMENTAL TECHNICAL MANUAL.

SIGNED:  DATE: 5/25/2023

CENE KETCHAM  
WETLAND STUDIES & SOLUTIONS, INC.  
1131 BENFIELD BOULEVARD, SUITE L  
MILLERSVILLE, MD 21108  
PH: 703-679-5723 FAX: 410-672-5993  
EMAIL: CKETCHAM@WETLANDS.COM

1 Per Conditions of Approval 02/16/2024

No. Description Date

Revisions

Project Number: P.WS18001830

Scale: N/A

Drawn By: L.Y, CK

Checked By: CK

Date: 2/6/2024

Sheet No.


LJ-3



TREE PROTECTION ACTION KEY (TPAK)

Tree #	DBH	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	REGULATED STATUS	Number of Stems	SRZ	CRZ1	CRZ2	Removal	Removal By /Arborist	Preservation Measures													Construction Notes	Assessment Notes	Setting	CRZ Loss Calculations			PFCP/FCP	
	(Diameter at 4.5 feet above grade)								Structural Critical Root Zone (radius) in Feet	Critical Root Zone Radius in Ft (1 ft radius DBH) (Forest Trees)	Critical Root Zone Radius in Ft (1.5 ft radius DBH) (Landscape Trees)			Root Prune	Tree Protection Fence	Mulch	Year 1 Soil Care	Year 2 Soil Care	Special Demolition	Soil Restoration/Aeration	Tree Growth Regulator	Tree Condition Inspections	Watering	Temp Root Protection Matt	Root Aeration Matting	Construction Oversight/Monitoring				Canopy Prune	Area of CRZ Loss (SqFt)	Total CRZ Area (SqFt)	% CRZ Loss	Disposition (Save/Remove)
436		8 cherry, black	Prunus serotina	30%	Poor	NO		1	4	8																No disturbance	DBH estimated. no access due to locked gate. Narrow Crown, Basal Decay, Trunk Decay, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor, Serious Decline, Vines	Forest	-	201	0.0%	SAVE	N/A	50
437		23 tuliptree	Liriodendron tulipifera	55%	Fair	NO		1	10	23				X	X							X	X		X	Moderate disturbance.	DBH estimated. no access due to locked gate. Large Deadwood (3'+), Small Deadwood (1-2''), Vines	Forest	271	1,662	16.3%	SAVE	2	415
438		21 tuliptree	Liriodendron tulipifera	65%	Good	NO		1	9	21				X	X											Minor disturbance.	DBH estimated. no access due to locked gate. Large Deadwood (3'+), Small Deadwood (1-2''), Vines	Forest	133	1,385	9.6%	SAVE	2	346
439		22.22 tuliptree	Liriodendron tulipifera	60%	Fair	NO	SPECIMEN	2	14	31				X	X					X	X			X		Moderate disturbance.	DBH estimated. no access due to locked gate. One Sided, Large Deadwood (3'+), Small Deadwood (1-2'')	Forest	488	3,041	16.0%	SAVE	6	760
440		10 hickory, mockernut	Carya tomentosa	75%	Good	NO		1	5	10																No disturbance	Small Deadwood (1-2''), Vines	Forest	-	314	0.0%	SAVE	N/A	79
441		24 hickory, mockernut	Carya tomentosa	40%	Poor	NO	SIGNIFICANT	1	11	24																No disturbance	One Sided, Basal Decay, Trunk Decay, Small Deadwood (1-2''), Vines	Forest	-	1,810	0.0%	SAVE	2	452
442		22 tuliptree	Liriodendron tulipifera	60%	Fair	NO		1	10	22																No disturbance	Included Bark/Weak Union, Small Deadwood (1-2'')	Forest	-	1,521	0.0%	SAVE	2	380
443		9 hickory, mockernut	Carya tomentosa	70%	Good	NO		1	4	9																No disturbance	Fungal Fruiting Bodies	Forest	-	254	0.0%	SAVE	N/A	64
444		15 hickory, mockernut	Carya tomentosa	70%	Good	NO		1	7	15																No disturbance	Fungal Fruiting Bodies	Forest	-	707	0.0%	SAVE	1	177
445		12 locust, black	Robinia pseudoacacia	0%	Dead	YES		1	5	12																Dead tree.		Forest	N/A	452	N/A	SAVE	N/A	113
446		10 locust, black	Robinia pseudoacacia	0%	Dead	YES		1	5	10																Dead tree.		Forest	N/A	314	N/A	SAVE	N/A	79
447		10 persimmon, common	Diospyros virginiana	55%	Fair	NO		1	5	10																No disturbance	Buried Root Collar, Large Deadwood (3'+), Small Deadwood (1-2''), Vines	Forest	-	314	0.0%	SAVE	N/A	79
448		11 cherry, black	Prunus serotina	45%	Fair	NO		1	5	11																No disturbance	Suppressed, Small Deadwood (1-2''), Vines	Forest	-	380	0.0%	SAVE	N/A	95
449		11 cherry, black	Prunus serotina	45%	Fair	NO		1	5	11																No disturbance	One Sided, Suppressed, Excessive Lean, Small Deadwood (1-2''), Vines	Forest	-	380	0.0%	SAVE	N/A	95
450		16 locust, black	Robinia pseudoacacia	40%	Poor	NO		1	7	16																No disturbance	Basal Decay, Trunk Decay, Included Bark/Weak Union, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor, Serious Decline	Forest	-	804	0.0%	SAVE	1	201
451		6 locust, black	Robinia pseudoacacia	40%	Poor	NO		1	3	6																No disturbance	Basal Decay, Trunk Decay, Included Bark/Weak Union, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor, Serious Decline, Fungal Fruiting Bodies	Forest	-	113	0.0%	SAVE	N/A	28
452		7 mulberry, white	Morus alba	45%	Fair	NO		1	3	7																No disturbance	Suppressed, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor, Serious Decline, Fungal Fruiting Bodies	Forest	-	154	0.0%	SAVE	N/A	38
453		8 locust, black	Robinia pseudoacacia	0%	Dead	YES		1	4	8																Dead tree.		Forest	N/A	201	N/A	SAVE	N/A	50
454		12 cherry, black	Prunus serotina	65%	Good	NO		1	5	12																No disturbance	Small Deadwood (1-2'')	Forest	-	452	0.0%	SAVE	1	113
455		8.8 locust, black	Robinia pseudoacacia	0%	Dead	YES		2	5	11																Dead tree.	Co-Dominant Stems	Forest	N/A	402	N/A	SAVE	N/A	101
456		8 cherry, black	Prunus serotina	60%	Fair	NO		1	4	8																No disturbance	Small Deadwood (1-2''), Vines	Forest	-	201	0.0%	SAVE	N/A	50
457		16 locust, black	Robinia pseudoacacia	40%	Poor	NO		1	7	16																No disturbance	One Sided, Suppressed, Basal Decay, Trunk Decay, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor	Forest	-	804	0.0%	SAVE	1	201
458		7 locust, black	Robinia pseudoacacia	40%	Poor	NO		1	3	7																No disturbance	Narrow Crown, Suppressed, Basal Decay, Trunk Decay, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor, Vines	Forest	-	154	0.0%	SAVE	N/A	38
459		12 locust, black	Robinia pseudoacacia	0%	Dead	YES		1	5	12																Dead tree.	Narrow Crown, Suppressed, Basal Decay, Trunk Decay, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor, Vines	Forest	N/A	452	N/A	SAVE	N/A	113
460		14 locust, black	Robinia pseudoacacia	0%	Dead	YES		1	6	14																Dead tree.	Narrow Crown, Suppressed, Basal Decay, Trunk Decay, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor, Vines	Forest	N/A	616	N/A	SAVE	N/A	154
461		16 locust, black	Robinia pseudoacacia	30%	Poor	NO		1	7	16																No disturbance	Narrow Crown, Suppressed, Basal Decay, Trunk Decay, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor, Serious Decline, Fungal Fruiting Bodies, Vines	Forest	-	804	0.0%	SAVE	1	201
462		28 oak, northern red	Quercus rubra	0%	Dead	YES	SIGNIFICANT	1	13	28			X													Dead tree. Remove for safety.		Forest	N/A	2,463	N/A	REMOVE	N/A	616
463		12 locust, black	Robinia pseudoacacia	30%	Poor	NO		1	5	12																No disturbance	DBH estimated. no access due to vines. One Sided, Suppressed, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor, Serious Decline, Vines	Forest	-	452	0.0%	SAVE	1	113
464		8 cherry, black	Prunus serotina	30%	Poor	NO		1	4	8																No disturbance	DBH estimated. no access due to vines. Suppressed, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor, Serious Decline, Vines	Forest	-	201	0.0%	SAVE	N/A	50
465		7 locust, black	Robinia pseudoacacia	40%	Poor	NO		1	3	7																No disturbance	Basal Decay, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor, Serious Decline, Fungal Fruiting Bodies	Forest	-	154	0.0%	SAVE	N/A	38
466		12 locust, black	Robinia pseudoacacia	0%	Dead	YES		1	5	12																Dead tree.	Basal Decay, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor, Serious Decline, Fungal Fruiting Bodies	Forest	N/A	452	N/A	SAVE	N/A	113
467		28 oak, northern red	Quercus rubra	55%	Fair	NO	SIGNIFICANT	1	13	28				X	X											Minor disturbance.	One Sided, Included Bark/Weak Union, Vines	Forest	47	2,463	1.9%	SAVE	3	616
468		24 tuliptree	Liriodendron tulipifera	65%	Good	NO	SIGNIFICANT	1	11	24			X													Remove for construction.	Large Deadwood (3'+), Small Deadwood (1-2''), Branch Decay, Vines	Forest	922	1,810	51.0%	REMOVE	2	452
469		29 pine, eastern white	Pinus strobus	55%	Fair	NO	SIGNIFICANT	1	13	29			X													Remove for construction.	DBH measured at 3'. Trunk Decay, Included Bark/Weak Union, Co-Dominant Stems, Large Deadwood (3'+), Small Deadwood (1-2'')	Forest	2,642	2,642	100.0%	REMOVE	3	661
470		16 pine, eastern white	Pinus strobus	50%	Fair	NO		1	7	16			X													SRZ disturbance.	Narrow Crown, Suppressed, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor	Forest	198	804	24.6%	REMOVE	1	201
471		9 pine, eastern white	Pinus strobus	45%	Fair	NO		1	4	9																No disturbance	Narrow Crown, Suppressed, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor	Forest	-	254	0.0%	SAVE	N/A	64
472		13 pine, eastern white	Pinus strobus	50%	Fair	NO		1	6	13																No disturbance	Girdling root - 2"x8". Suppressed, Girdling Roots, Large Deadwood (3'+), Small Deadwood (1-2''), Low Vigor, Vines	Forest	-	531	0.0%	SAVE	1	133

**QUALIFIED PROFESSIONAL CERTIFICATION**  
 THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS OF THE CITY OF ROCKVILLE'S CODE AND THE ENVIRONMENTAL TECHNICAL MANUAL.

SIGNED:  DATE: 5/25/2023

CENE KETCHAM  
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LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



OUTDOOR  
RECREATION POOL  
RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

FINAL FCP  
Tree Table (TPAK)

100%  
CONSTRUCTION  
DOCUMENT

1 Per Conditions of Approval 02/18/2024

No. Description Date

Revisions

Project Number: P.WS18001830

Scale: N/A

Drawn By: L.Y. CK

Checked By: CK

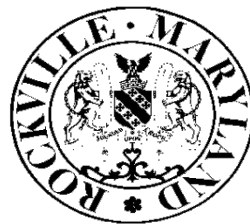
Date: 2/6/2024

Sheet No. LJ-4



**BID SET 02/23/2024**





# Forest and Tree Preservation Ordinance Notes

NOVEMBER 2019

## SEQUENCE OF EVENTS

The permittee is responsible for strict adherence to the sequence and details as outlined. During each stage of the project, forestry staff may provide additional direction based on site conditions, unforeseen circumstances, or approved revisions.

### PRE-CONSTRUCTION

- Permittee shall obtain a Forestry Permit (FTP) for the project and secure copies of the approved Forest Conservation Plan (FCP) for distribution to contractors. The Permittee is responsible for obtaining a Maryland Roadside Tree Permit if applicable. Contact Miss Utility at 1-800 257-7777.
- The Permittee must coordinate and schedule an onsite preconstruction meeting with the following attendees: Permittee, Construction Superintendent, Maryland LTE/ISA Certified Arborist (if required by Forestry Department), the City Forestry Inspector, City Project Inspector, and City Sediment Control Inspector. The limits of disturbance must be staked and flagged prior to the preconstruction meeting. No land disturbance shall occur prior to this meeting. This includes, but is not limited to, the installation of tree protection fencing, sediment control measures, clearing, grading and tree stress reduction measures. The limits of disturbance will be reviewed, and tree protection and tree care measures will be discussed.
- No land disturbance shall begin before stress-reduction measures as indicated on the approved FCP, or otherwise directed by the Forestry Inspector have been implemented and approved by Forestry Inspector. Measures not specified on the plan may be required as determined by the Forestry Inspector in consultation with the Permittee's MD LTE/ISA Certified Arborist. Appropriate stress-reduction measures may include, but are not limited to:
  - Root pruning
  - Crown reduction or pruning
  - Watering
  - Fertilizing
  - Surface mulching
  - Vertical mulching
  - Root aeration matting
- A professional with the dual credentials of Maryland Department of Natural Resources Licensed Tree Expert (LTE) and International Society of Arboriculture Certified Arborist (ISA CA) must perform all stress reduction measures. Documentation of these qualifications may be required. The measures must be done in accordance with *ANSI Standards for Tree Care Operations* (A300) and other industry best management practices. Implementation of the stress reduction measures must be observed by the Forestry Inspector or written documentation, including photographs must be sent via mail or email to the City Forestry Inspector.
- Temporary tree protection devices, including signage, shall be installed per the approved Forest Conservation Plan, or as otherwise directed by the Forestry Inspector, and prior to any land disturbance. Tree protection fencing locations must be staked and flagged prior to the pre-construction meeting. The Forestry Inspector, in coordination with the City Sediment Control Inspector, may make field adjustments to increase the survivability of trees and forest shown as saved on the approved plan. The Permittee must contact the Forestry Inspector to schedule a follow up construction inspection after installing all tree protection measures and performing all stress reduction measures. Upon a satisfactory inspection by the Forestry Inspector and Sediment Control Inspector, a Notice to Proceed will be issued and clearing and grading can commence. Temporary tree protection devices may include:
  - Chain link fence (four feet high)
  - Super silt fence with wire strung between the support poles (minimum 4 feet high) with high visibility flagging.
  - 14 gauge 2 inch x 4 inch welded wire fencing supported by steel T-bar posts (minimum 4 feet high) with high visibility flagging.
- The Permittee and contractor shall maintain the temporary tree protection devices for the duration of the project and the location must not be altered without prior approval of the Forestry Inspector. No equipment, trucks, materials, debris, or any other items may be stored within the tree protection fence areas during the entire construction project. No access beyond the fenced area will be permitted. Tree Protection fencing shall not be removed without prior approval of the Forestry Inspector.
- Long term tree protection devices/techniques, as shown on the FCP or as directed by the Forestry Inspector may include but are not limited to:
  - Root aeration systems
  - Retaining walls
  - Raised sidewalks
  - Tunneling of utilities
  - Pier and panel walls
  - Porous pavers

### DURING CONSTRUCTION

- Periodic inspections at the discretion of the Forestry Inspector will occur during the construction project. Corrections and repairs to all tree protection devices and other protective measures, as determined by the Forestry Inspector, must be made within the timeframe established by the Forestry Inspector.
- The Permittee must immediately notify the Forestry Inspector of any damage to trees, forests, understory, ground cover, and any other undisturbed areas shown on the plan. Remedial actions to the restore these areas will be determined by the Forestry Inspector and the corrective actions must be made within the timeframe established by the Forestry Inspector.
- Failure to comply with the approved FCP or any directive of the City Forester's office is a violation of the Forest and Tree Preservation Ordinance (FTPO). Pursuant to Section 10.5-34 of the FTPO, a fine in the amount of \$1,000 may be imposed for each violation. Each day a violation continues is a separate violation. In addition, a stop work order may be issued until the violation has been abated and the fine has been paid or an appeal has been filed pursuant to Section 10.5-35 of the FTPO. Additional punitive measures as stated under Section 10.5-34 of the FTPO may be imposed.

### POST CONSTRUCTION

- After construction is completed, the Permittee must request a final inspection in writing with the Forestry Inspector. At the final inspection, the Forestry Inspector may require additional corrective measures, which may include, but is not limited to:
  - Removal and replacement of dead and dying trees
  - Pruning of damaged, dead or declining limbs
  - Surface mulching
  - Soil aeration
  - Fertilization
  - Watering
  - Wound repair
  - Clean up of retention areas including trash removal
- After the final inspection and completion of all corrective measures the Forestry Inspector will request all temporary tree and forest protection devices be removed from the site. Removal of tree protection devices that also operate for erosion and sediment control must be coordinated with both the City Sediment Control Inspector and the Forest Conservation Inspector. No additional grading, sodding, or burial may take place after the tree protection fencing is removed.

### INSTALLATION OF PLANT MATERIAL

- The Permittee is responsible for obtaining the approved Forest Conservation Plan/Landscape Plan and providing a copy to the Landscape Contractor. The Permittee shall ensure that the Landscape Contractor can secure the plants shown the FCP/Landscape Plan. Plant substitutions are not allowed. It is strongly recommended that plant material be secured from supplier by the project start date.

- A pre-planting meeting is required before installation of landscaping, afforestation, or reforestation. The applicant must schedule an on-site pre-planting meeting with the City Forestry Inspector. Attendees must include the Permittee, landscape contractor, and Forestry Inspector. Trees and shrubs shall conform to the current edition of the American Standard for Nursery Stock (ANSI Z60.1).
- Comply with appropriate City Soil Specification:
  - Soil Specification FOR TREE PLANTING WHERE EXISTING PAVEMENT OR OTHER IMPERVIOUS SURFACES WERE PREVIOUSLY LOCATED OR WHERE EXISTING GREENSPACE HAS BEEN SEVERELY DEGRADED<sup>1</sup>
    - Site preparation
      - Demolish existing impervious surface and remove all existing asphalt, concrete, stone and construction materials to expose subsoil free of debris.
      - Excavate so that final planting bed will provide quality soil to a depth of forty-eight (48) inches, and to a radius of 10' minimum or to new hard edge of planting bed, whichever is less.
      - Loosen exposed subsoil below 48" by ripping 18" into the sub grade elevation.
      - Test to ensure that planting bed drains at a rate of at least 1 inch/per hour.
      - Install imported soil to fill excavated planting bed. Imported soil shall have a texture of LOAM, per the USDA soil classification system and a chemical composition compatible with healthy tree growth. When installing the soil, it should be installed in lifts or layers of < 12 inches (30 cm), tamping or watering (not both) between lifts to minimize potential settling.
    - Immediately prior to installation of plant material, the soil must be tested and must have a pH range between 5.5 and 7 and a nutrient content which corresponds to an adequate rating, per current industry standards. Amend soil, if necessary, to achieve the current industry standard.
    - The Forestry Inspector may require additional soil specifications, based on site conditions.
  - Soil Specification FOR PLANTING WHERE EXISTING GREEN SPACE HAS NOT BEEN PROTECTED FROM CONSTRUCTION IMPACTS BUT IS NOT SEVERELY DEGRADED.
    - Site Preparation:
      - Remove all construction debris and top four to six inches of existing soil.
      - Test remaining existing soil to verify a pH range between 5.5 and 7, and has a nutrient content which corresponds to an adequate rating, per current industry standards.
      - Apply four (4) inches of mature compost evenly over the entire planting surface. (4" = 12 Cubic Yard/1,000 s.f.). Provide compost supplier information and specifications to the City Forestry Inspector for approval prior to install
      - Till the compost into the existing soil to a minimum depth of thirty-six (36) inches using the city's soil profile rebuilding specification.
      - If soil does not meet nutrient standards, mitigate soil chemistry to meet the chemical parameters.
    - The Forestry Inspector may require additional soil specifications, based on site conditions.
  - Soil Specification FOR PLANTING WITHIN EXISTING GREEN SPACE AREAS WHICH HAVE BEEN PROTECTED FROM CONSTRUCTION IMPACTS (One of two options, as determined by Forestry Inspector) Refer to approved City of Rockville Detail A-7
    - Test existing soil to verify it has a pH range between 5.5 and 7, and a nutrient content which corresponds to an adequate rating, per current industry standards. If soil does not meet nutrient standards, one of two options will be performed to mitigate the soil:
      - Option 1- Till Method- Depth of tilling for planting must be at least twenty-four (24) inches:
        - Apply four (4) inches of mature compost evenly over the entire planting surface (4" = 12 cubic yards/1,000 s.f.). Provide compost supplier information and specifications to the City Forestry Inspector for approval prior to install.
        - Till the compost into the existing soil to a minimum depth of twenty-four (24") inches.
      - Option 2 - Aeration and Vertical Mulching
        - Using a 2- 3" Auger, drill a series of holes in the soil to a depth of twenty-four (24) inches.
        - Begin at the edge of the hole dug for the root ball and continue drilling at one-foot intervals (maximum), in concentric rings around the tree out to ten (10) feet from the tree.
        - Each hole must be refilled with mature compost.
      - The Forestry Inspector may require additional soil specifications, based on site conditions.
- Soil testing of the existing soil may be conducted with PRIOR approval from the City's Forestry Inspector to determine the number and location of the samples. The above requirements may be reduced if soil testing shows the following:
  - Soil pH is between 5.5 and 7
  - The top 24" of existing soil contains a minimum of 4-6% organic matter by weight
  - The soil is free of contaminants
  - The soil texture is sandy loam or loam
  - The soil has an infiltration rate not less than 1" per hour
  - The soil does not contain debris or stones greater than one inch
  - The soluble salt content is less than 3 dS/m
  - Consult the University of Maryland Extension website: <http://extension.umd.edu/> for a listing of commercial soil testing facilities.
- Soil preparation is required for street trees planted within the city's rights-of-way and private street trees, if they are part of the approved plan.

<sup>1</sup> See definitions section #9

- The depths and grades shown on plan drawings are final grades after settlement and shrinkage of the organic material. The contractor shall install the soil mix at a higher level to anticipate this reduction of volume. All grades are assumed to be 'as measured' to be prior to the addition of any surface compost till layer or mulch or sod.
- All details of the planting plans regarding plant quality and proper planting will be discussed including but not limited to:
  - Plant quality.
  - Proper form for species.
  - Proper ratio of caliper size/height to container size/root ball size.
  - Proper pruning cuts if applicable in accordance with current ANSI A300 pruning standards (generally there should be no recent pruning).
  - No co-dominant stems or multiple trunks (unless approved by FCP or by The Forestry Inspector).
  - Sound graft union.
  - Free of girdling roots, or the ability to remove girdling roots without damaging the tree.
  - Trees shall be healthy, vigorous, insect/disease free, and without cankers/cracks or trunk damage.
- Proper Installation
  - Root flare no higher than 3 inches from existing grade.
  - Exposed root flare (not graft): removing more than several inches of soil to expose the root flare may result in the rejection of the plant material.
  - Wire baskets/twine/burlap removed from at least the top half of root ball, or as directed by Forestry Inspector.
  - All burlap or twine removed completely.
  - No hose and wire; staking and strapping per City planting detail.
  - Planting Hole a minimum of twice the width of the root ball; could be greater. Planting detail assumes soil has been prepared per the city's specifications (Planting, #3).
  - Mulched properly, per City planting detail.
  - Wildlife protection installed, if required; type approved by the Forestry Inspector.
- Trees not complying with the above requirements may be rejected at the discretion of the City Forestry Inspector.
- Tree planting will generally not be permitted between the dates of June 1 and September 1, or when the ground is frozen.
- DEFINITIONS
  - Topsail
    - Soil can be considered topsoil if it originates from an A horizon of a natural soil or is a mineral soil with 4-6% organic matter content, and a NRCS textural class similar to pre-development conditions A horizon soils for the site, or as specified by the City Forestry Division. The city Forestry Division will specify a LOAM texture in the absence of native conditions listed above. Blended soils shall not be used unless specified by the City Forestry Division. In addition, topsoil shall:
      - Be friable and well drained
      - Have a pH between 5.5-7.

- Have an organic matter content between 4-6%.
  - Have low salinity as indicated by a soluble salt content which is less than 3 dS/m
  - Be free of debris, stone, gravel, trash, large sticks, heavy metals, and other deleterious contaminants, (if screening is used to remove debris, screen size must be ¾ inch or larger).
  - Have a nutrient profile such that it has an adequate rating, per current industry standards.
  - Be free of noxious weed seeds
- Compost
    - Compost shall be composed of leaves, yard waste, or food waste. Biosolid-based composts shall not be used. A compost sample with analysis shall be submitted for approval to the City Forestry Division before application.
    - Stability refers to the rate of biological breakdown, measured by carbon dioxide release. Maturity refers to completeness of the aerobic composting process and suitability (lack of plant toxicity) as a plant growth media, often measured by ammonia release and by plant growth tests. Compost manufacturers that subscribe to the US Composting Council's testing program may document stability as compost testing 7 or below in accordance with TMECC 05.08-8, "Carbon Dioxide Evolution Rate". Maturity (suitability for plant growth) may be documented as compost testing greater than 80% in accordance with TMECC 05.05-A, "Germination and Vigor". Compost is considered mature and stable if it tests at 6.0 or higher on the Solvita Compost Maturity Index Rating, which is a combination of Carbon Dioxide and Ammonia Maturity Tests (test information and equipment available at [www.solvita.com](http://www.solvita.com)).
    - Compost shall also be:
      - Free of weed seeds.
      - Free of heavy metals or other deleterious contaminants.
      - Have a soluble salt content which is less than 3 dS/m.
  - Severely Degraded Soil
    - Soil shall be considered severely degraded if grade was lowered or raised more than 14 inches OR soil was compacted in lifts regardless of the final grade OR was used as a staging area for construction materials, equipment or processes.
    -

### POST INSTALLATION

- The Permittee shall notify the City Forestry Inspector IN WRITING when the planting is complete and request a post planting inspection. The inspection must include the Permittee, landscape contractor and Forestry Inspector. The maintenance and warranty period will not begin until the City Forestry Inspector has accepted ALL plantings.
- Trees will be inspected for plant quality and proper planting in accordance with City specifications and nursery standards. Once the maintenance period has begun, the applicant is responsible for maintaining plant health in accordance with the signed Warranty and Maintenance Agreement.
- Routine inspections will be conducted throughout the warranty period and the applicant will be notified in writing when corrective measures are required. Failure to complete the corrective measures by the given date may result in fines being issued, permits revoked, extension of warranty period or other punitive measures.
- Such maintenance shall include when appropriate, but not necessarily be limited to:
  - Weekly watering equal to 10 gallons per caliper measure of tree diameter. (ex: 2.5" caliper tree =25 gallons/week.) Documented drenching natural rainfall may substitute for weekly watering.
  - Control of competing vegetation throughout the maintenance period as necessary.
  - Fertilizing, as required by soil analysis.
  - Pruning, mulching, tightening of strapping, resetting of plants to proper grades or upright position.
  - Furnishing and applying pesticides or other items necessary to thwart damage from insects and disease.
  - Providing protection measures such as fencing and interpretive signs as necessary, to prevent destruction or degradation of the planting site.
  - Replacement of dead and dying trees. Survival standards contained in the State Forest Conservation Manual shall be followed for the protection and satisfactory establishment of forest where applicable.
  - Eradicate, suppress and control non-native and invasive plant species during the maintenance period to the satisfaction of the City Forestry Inspector.
  - Installing and maintaining devices to protect against wildlife damage.
  - Removal of staking and strapping after six months, or as directed by the Forestry Inspector.

### NON-NATIVE INVASIVE PLANT CONTROL:

- The City of Rockville maintains a list of non-native and invasive plants for certain available on the City's website. The State of Maryland maintains a noxious weed list. The Permittee shall submit a Non-Native and Invasive Management Plan to the City Forestry Inspector for review and approval prior to the pre-planting meeting. Details to be included in the management plan are:
  - Narrative and/or plan stating the location, type and amount of non-native and invasive plants present on the site.
  - Proposed treatment measures and methods of control by plant type.
  - Timing and frequency of treatments by plant type.
  - Plan for seeding and/or re-planting following management/eradication treatment.
  - Proposed signage type and locations for installing herbicide application notification signs.
  - Copies of contractor certifications/pesticide licenses.
- Contractor is responsible for complying with MDE, EPA and other government agency regulations as well as obtaining proper permits from these agencies as applicable. The Forestry inspector must be notified 48 hours in advance prior to commencing any and all treatments.
- The Forestry Inspector will perform periodic inspections of the non-native and invasive treatments throughout the warranty and maintenance period. The applicant may be required to submit proof of treatment.

QUALIFIED PROFESSIONAL CERTIFICATION THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS OF THE CITY OF ROCKVILLE'S CODE AND THE ENVIRONMENTAL TECHNICAL MANUAL.		
SIGNED: _____	DATE: 5/25/2023	
CENE KETCHAM WETLAND STUDIES & SOLUTIONS, INC. 1131 BENFIELD BOULEVARD, SUITE L MILLERSVILLE, MD 21108 PH: 703-679-5723 FAX: 410-672-5993 EMAIL: CKETCHAM@WETLANDS.COM		

**LSG LANDSCAPE ARCHITECTURE**  
 8260 GREENSBORO DRIVE  
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 TYSONS, VIRGINIA 22102  
 703-821-2045



ROCKVILLE SWIM  
 & FITNESS CENTER  
 355 MARTINS LANE  
 ROCKVILLE, MD 20850



## OUTDOOR RECREATION POOL RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

### FINAL FCP

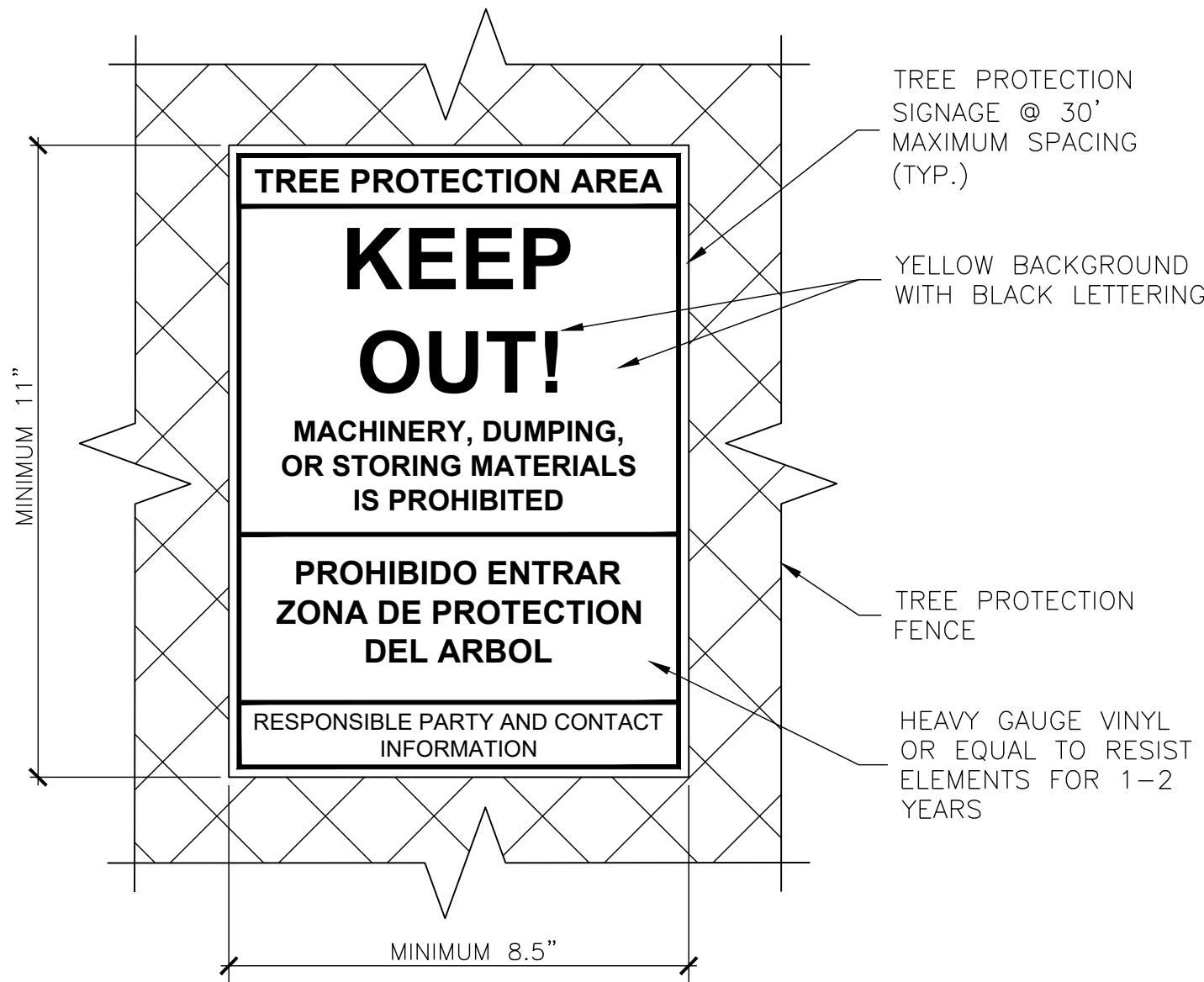
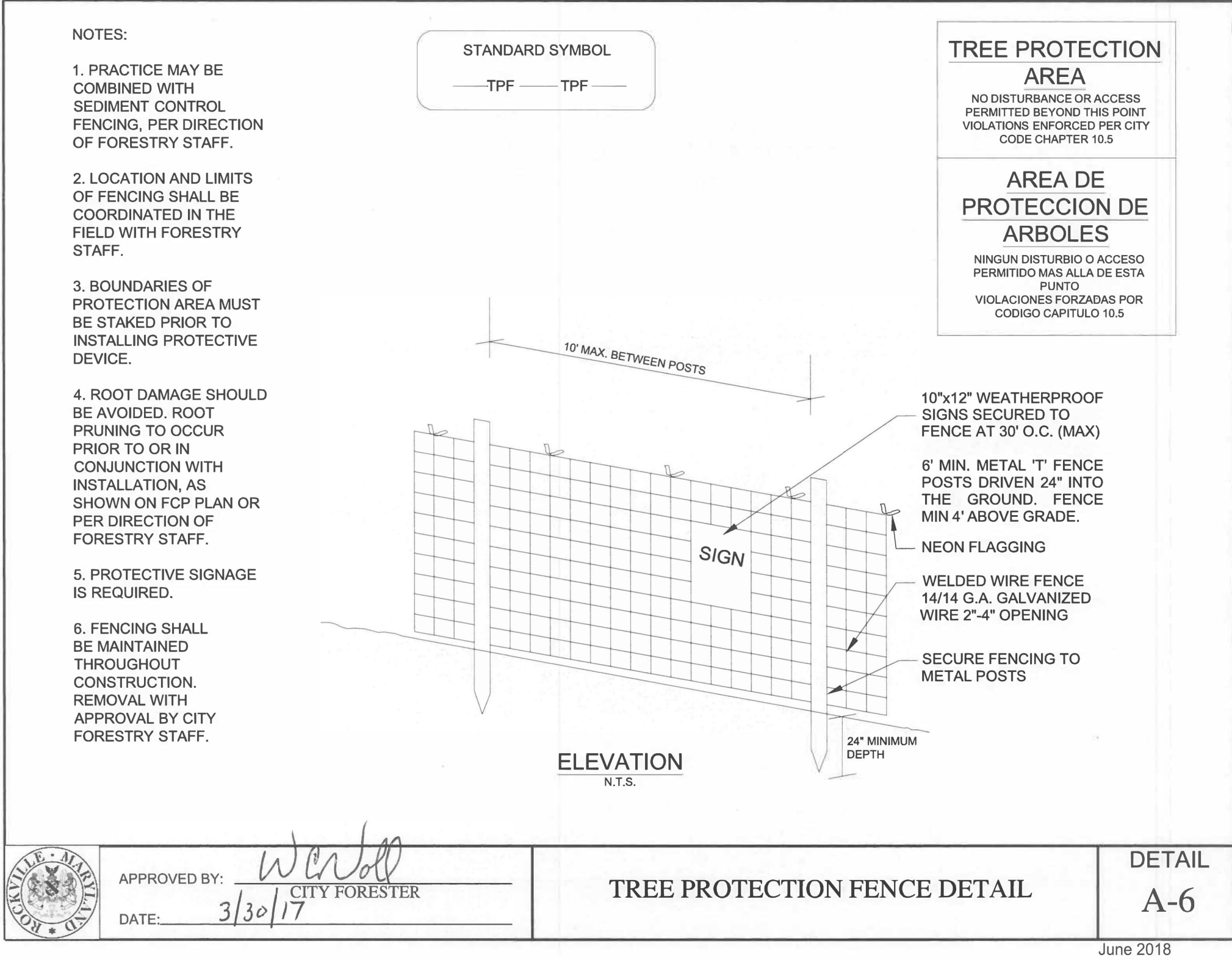
### FTPO Notes

## 100% CONSTRUCTION DOCUMENT

No.	Description	Date
Revisions		
Project Number:	P.WS18001830	
Scale:	1"=30'	
Drawn By:	LY, CK	
Checked By:	CK	
Date:	2/6/2024	
Sheet No.	LJ-6	

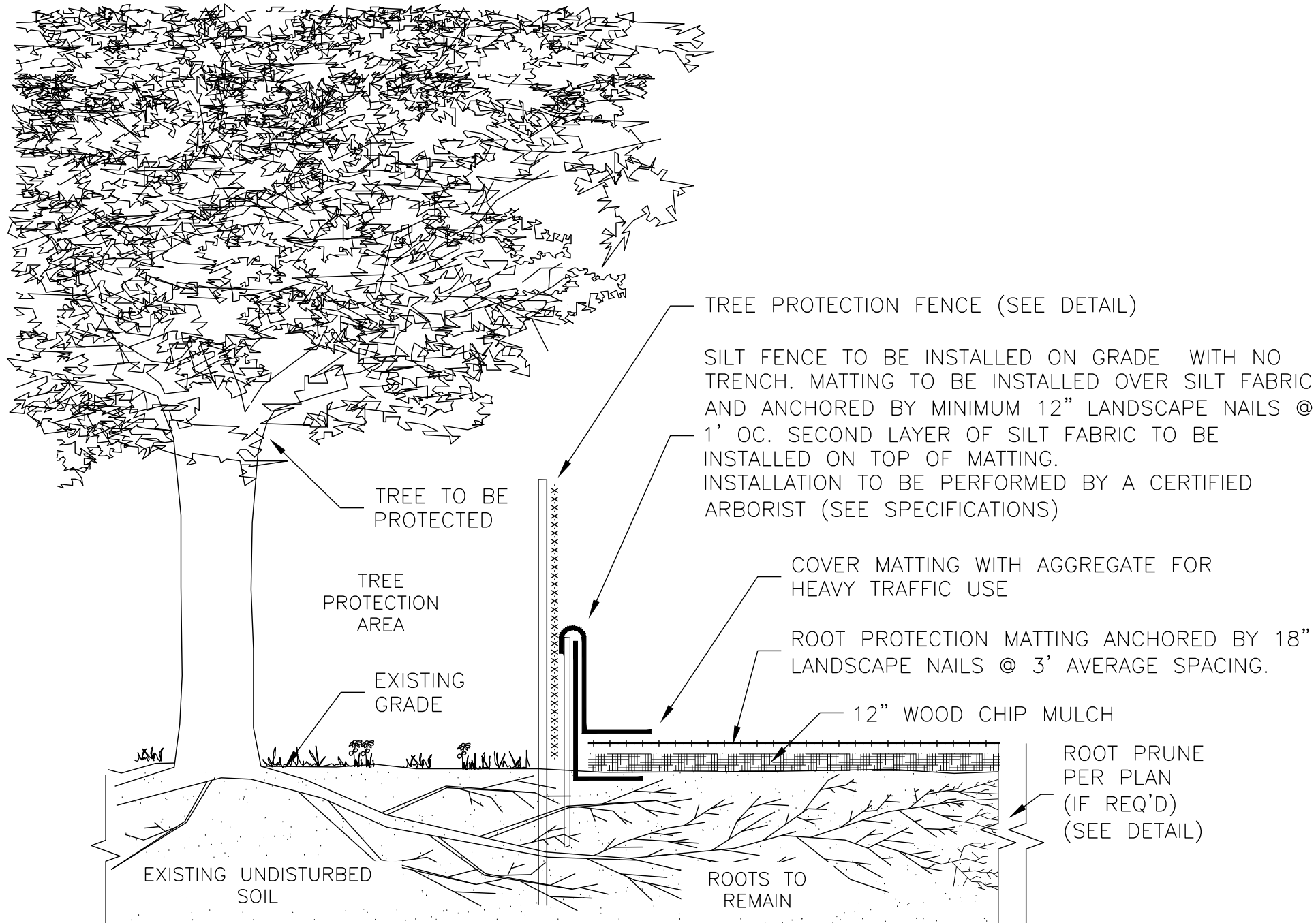
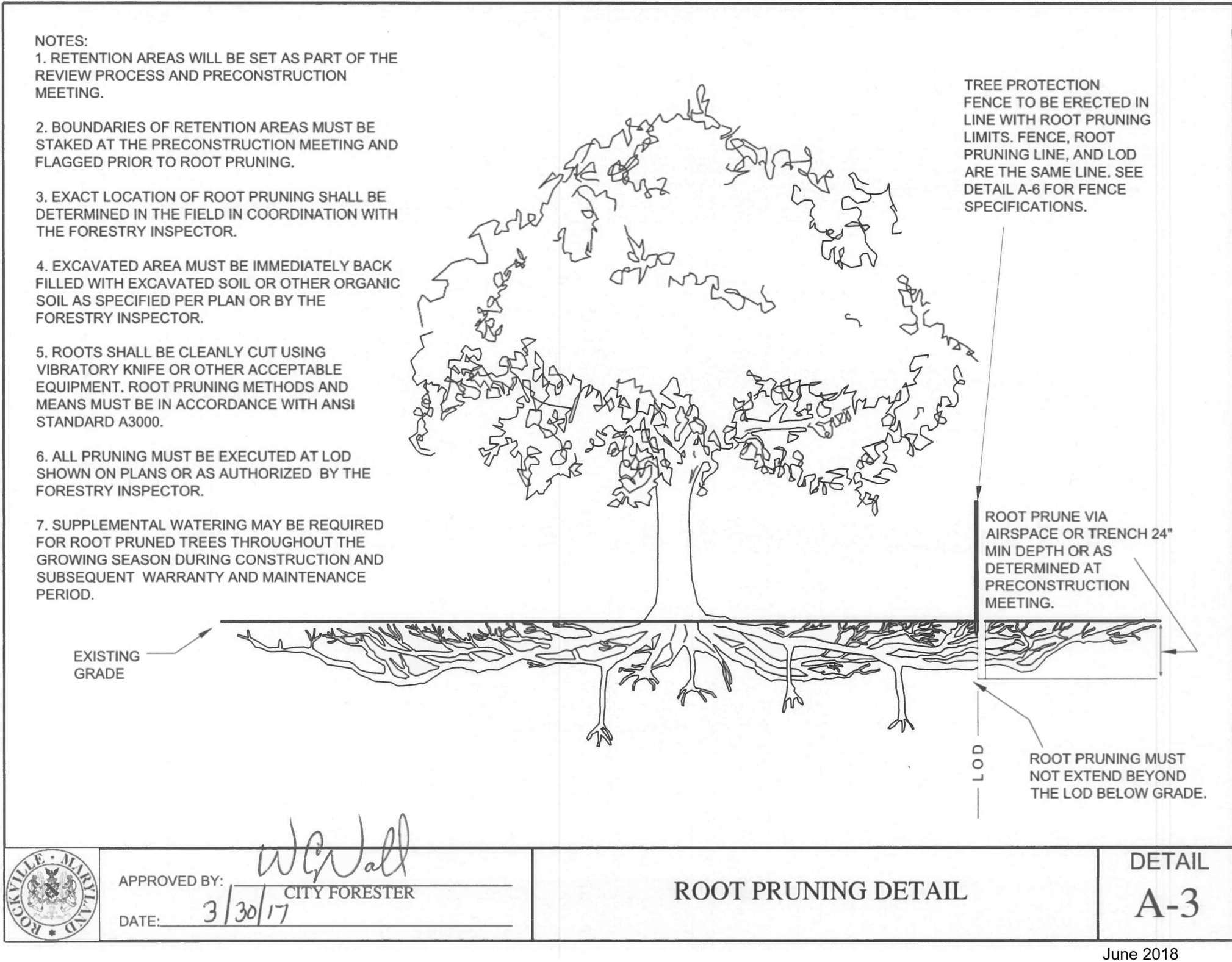
NFC





- NOTES:
1. SIGNS TO BE ATTACHED TO TREE PROTECTION FENCE OR POSTS AT READABLE LEVEL.
  2. 30' MINIMUM SPACING AVERAGE ADJUSTED FOR MAXIMUM READABILITY.
  3. MINIMUM ONE SIGN FOR SMALL TREE PROTECTION AREAS.
  4. SIGNS MAY BE REMOVED FROM RESIDENTIAL LOTS UPON ISSUANCE OF USE AND OCCUPANCY.
  5. SIGNS TO REMAIN ON NON RESIDENTIAL SITES FOR MAINTENANCE PERIOD.

1 TREE PROTECTION AREA SIGN (TYPICAL)  
LJ-7 SCALE: NTS



- NOTES:
1. MATTING MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENSAR ROADRAIN RD7) OR APPROVED EQUIVALENT.
  2. RPM SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
  3. TO BE USED FOR DESIGNATED TEMPORARY CONSTRUCTION ACCESS AND STOCKPILE AREAS.
  4. MATTING SHALL BE PLACED ON 12" WOOD CHIP MULCH UNLESS OTHERWISE DIRECTED.
  5. FOR HEAVY TRAFFIC AREAS, MATTING SHALL BE COVERED WITH 6-8" WELL GRADED CRUSHED AGGREGATE. ADDITIONAL LAYERS OF GEOTEXTILE, OR HARDENED SURFACE LAYER MAY BE NEEDED.

2 TEMPORARY ROOT PROTECTION MATTING (TYPICAL)  
LJ-7 SCALE: NTS

**QUALIFIED PROFESSIONAL CERTIFICATION**  
THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS OF THE CITY OF ROCKVILLE'S CODE AND THE ENVIRONMENTAL TECHNICAL MANUAL.

SIGNED: *C. Ketcham* DATE: 5/25/2023

CENE KETCHAM  
WETLAND STUDIES & SOLUTIONS, INC.  
1131 BENFIELD BOULEVARD, SUITE L  
MILLERSVILLE, MD 21108  
PH: 703-679-5723 FAX: 410-672-5993  
EMAIL: CKETCHAM@WETLANDS.COM

NFC

**LSG LANDSCAPE  
ARCHITECTURE**

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



**OUTDOOR  
RECREATION POOL  
RENOVATIONS**

CITY OF ROCKVILLE, MARYLAND

**FINAL FCP**

**Details**

**100%  
CONSTRUCTION  
DOCUMENT**

No.	Description	Date
Revisions		
Project Number: P.WS18001830		
Scale:	N/A	
Drawn By:	LY, CK	
Checked By:	CK	
Date:	2/6/2024	
Sheet No.	LJ-7	



NOTES:  
PRUNE TO REMOVE DEAD, BROKEN OR CROSSING BRANCHES AND TO IMPROVE FORM

STAKES ARE OPTIONAL

STAKES INTO UNDISTURBED SOIL AT EDGE OF PLANTING PIT

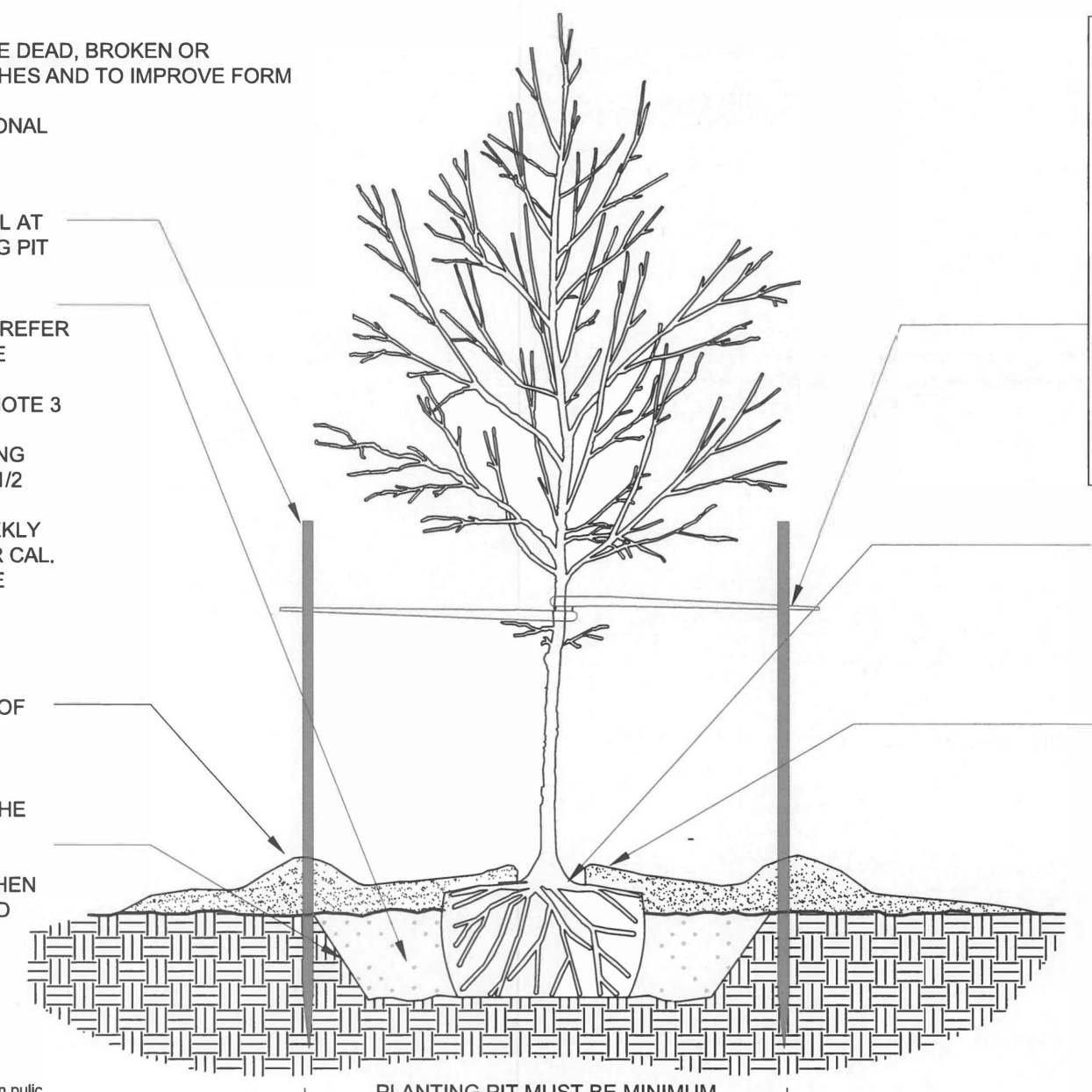
BACKFILL WITH EXCAVATED SOIL- REFER TO THE FTPO TREE PLANTING SOIL SPECIFICATIONS NOTE 3

WATER AT PLANTING WHEN SOIL PIT IS 1/2 BACKFILLED; SUPPLEMENT WEEKLY WITH 10 GALL. PER CAL. MEASURE OF TREE DIAMETER

2"-4" HIGH MULCH SAUCER AT EDGE OF PLANTING PIT

SLOPE SIDES OF THE PLANTING PIT SCARIFY SIDES DO NOT DIG PIT WHEN SOIL IS SATURATED

NOTE: coordinate planting in public right-of with the Public Works Inspector and the City Forester



PLANTING PIT MUST BE MINIMUM 2x DIAMETER OF ROOTBALL (UP TO 5x MAY BE REQUIRED)

USE NYLON, POLYPROPYLENE, OR SIMILAR 3/4"-1" WIDE WOVEN CLOTH TREE STRAPS, OR APPROVED EQUAL.

DO NOT USE HOSE AND WIRE GUYS OR CHAIN LOCK.

"FIGURE 8" STRAP AROUND TRUNK ALLOW 1/2"-1" TRUNK MOVEMENT


NAIL/STAPLE GUY STRAP TO STAKE; DO NOT TIE STRAP TIGHTLY TO THE TRUNK

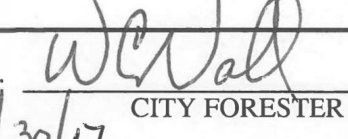
REMOVE ALL STAKES AND GUYS AFTER 6 MONTHS

EXPPOSE ROOT FLARE LEVEL WITH OR MAXIMUM 3" ABOVE FINAL GRADE. SITUATE ROOT BALL AT CORRECT HEIGHT IN PLANTING HOLE, BASED ON ROOT BALL DEPTH..

3" HARDWOOD MULCH ON ENTIRE PLANTING PIT EXCEPT KEEP MULCH 3" AWAY FROM TRUNK

REMOVE A MINIMUM OF 1/2 BASKET/BURLAP FROM SIDES AND TOP OF ROOTBALL. DO NOT ROLL BURLAP. REMOVE ALL BURLAP.



APPROVED BY:   
DATE: 3/30/17 CITY FORESTER

SHADE TREE PLANTING DETAIL

DETAIL  
A-1

June 2018

NOTES:  
PRUNE TO REMOVE DEAD, BROKEN OR CROSSING BRANCHES AND TO IMPROVE FORM

STAKES ARE OPTIONAL

STAKES INTO UNDISTURBED SOIL AT EDGE OF PLANTING PIT

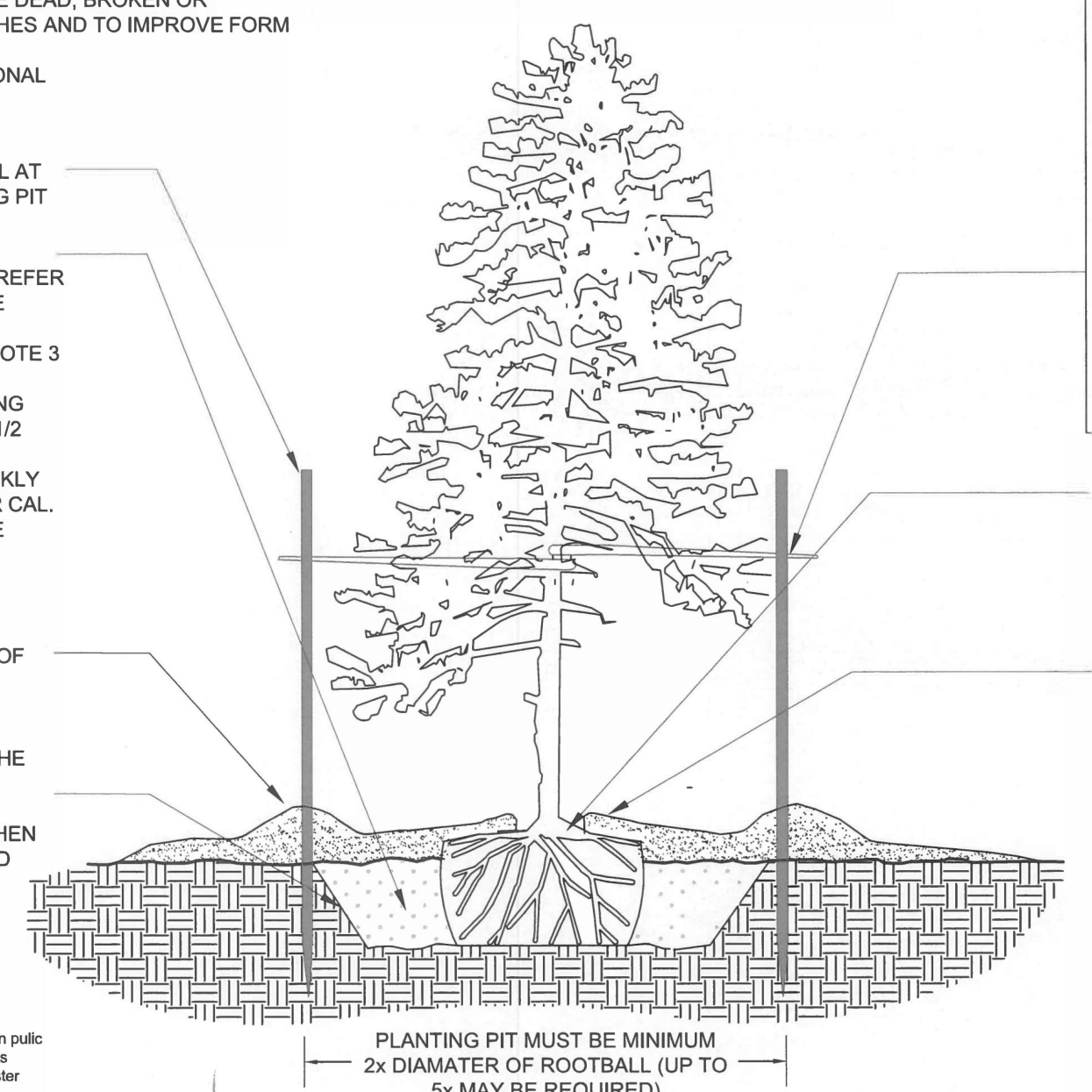
BACKFILL WITH EXCAVATED SOIL. REFER TO THE FTPO TREE PLANTING SOIL SPECIFICATIONS NOTE 3

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2"-4" HIGH MULCH SAUCER AT EDGE OF PLANTING PIT

SLOPE SIDES OF THE PLANTING PIT SCARIFY SIDES DO NOT DIG PIT WHEN SOIL IS SATURATED

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"FIGURE 8" STRAP AROUND TRUNK ALLOW 1/2"-1" TRUNK MOVEMENT


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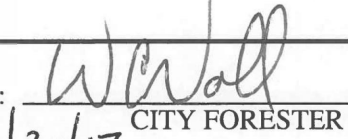
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3" HARDWOOD MULCH ON ENTIRE PLANTING PIT EXCEPT KEEP MULCH 3" AWAY FROM TRUNK

REMOVE A MINIMUM OF 1/2 BASKET/BURLAP FROM SIDES AND TOP OF ROOTBALL. DO NOT ROLL BURLAP. REMOVE ALL BURLAP.



APPROVED BY:   
DATE: 3/30/17 CITY FORESTER

EVERGREEN TREE PLANTING DETAIL

DETAIL  
A-2

June 2018

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



OUTDOOR  
RECREATION POOL  
RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

FINAL FCP

Details

100%  
CONSTRUCTION  
DOCUMENT

QUALIFIED PROFESSIONAL CERTIFICATION  
THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS  
OF THE CITY OF ROCKVILLE'S CODE AND THE  
ENVIRONMENTAL TECHNICAL MANUAL.

SIGNED:  DATE: 5/25/2023

CENE KETCHAM  
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1131 BENFIELD BOULEVARD, SUITE L  
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PH: 703-679-5723 FAX: 410-672-5993  
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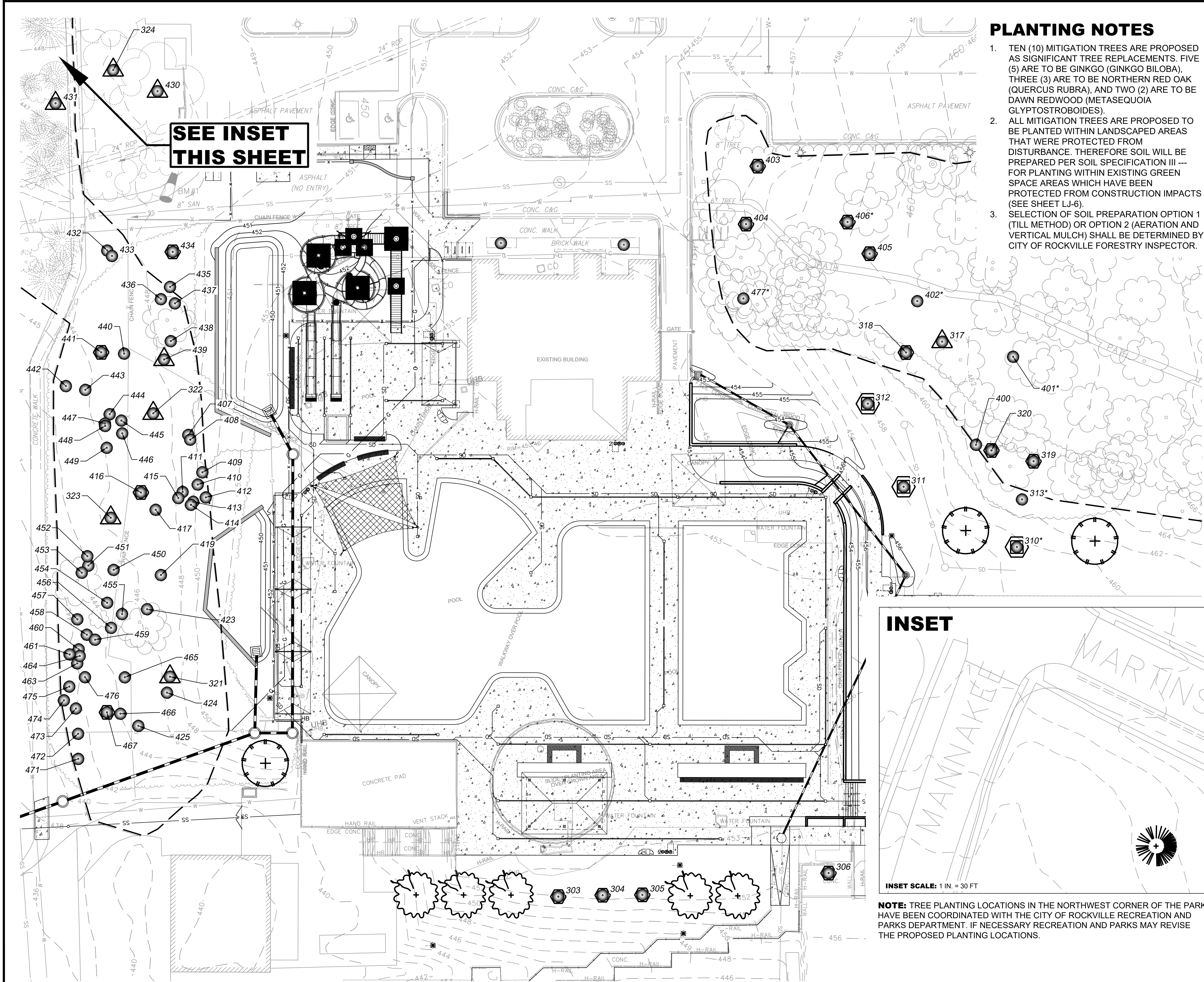
NFC

No.	Description	Date
Revisions		

Project Number:	P.WS18001830
Scale:	N/A
Drawn By:	LY, CK
Checked By:	CK
Date:	2/6/2024

Sheet No. LJ-8





PLANTING NOTES

- TEN (10) MITIGATION TREES ARE PROPOSED AS SIGNIFICANT TREE REPLACEMENTS. FIVE (5) ARE TO BE GINKGO (GINKGO BILOBA), THREE (3) ARE TO BE NORTHERN RED OAK (QUERCUS RUBRA), AND TWO (2) ARE TO BE DAWN REDWOOD (METASEQUOIA GLYPTOSTROBILIDES).
- ALL MITIGATION TREES ARE PROPOSED TO BE PLANTED WITHIN LANDSCAPED AREAS THAT WERE PROTECTED FROM DISTURBANCE. THEREFORE SOIL WILL BE PREPARED PER SOIL SPECIFICATION III --- FOR PLANTING WITHIN EXISTING GREEN SPACE AREAS WHICH HAVE BEEN PROTECTED FROM CONSTRUCTION IMPACTS (SEE SHEET LJ-6).
- SELECTION OF SOIL PREPARATION OPTION 1 (TILL METHOD) OR OPTION 2 (AERATION AND VERTICAL MULCH) SHALL BE DETERMINED BY CITY OF ROCKVILLE FORESTRY INSPECTOR.

LEGEND

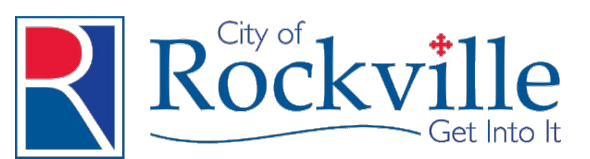
- EXISTING TREE
- SPECIMEN TREE ( ≥30 IN. DBH)
- SIGNIFICANT TREE ( ≥24 IN. DBH - FOREST ≥12 IN. DBH - LANDSCAPE)
- REPLACEMENT TREE FROM PREVIOUSLY APPROVED FCP
- TREE TO BE REMOVED
- TREE TO BE REMOVED BY ARBORIST (SEE NOTES ON SHEET LJ-2)
- FOREST STAND BOUNDARY
- EXISTING TREELINE
- PROPERTY LINE
- PROPOSED MITIGATION TREE GINKGO (GINKGO BILOBA)
- PROPOSED MITIGATION TREE NORTHERN RED OAK (QUERCUS RUBRA)
- PROPOSED MITIGATION TREE DAWN REDWOOD (METASEQUOIA GLYPTOSTROBILIDES)

LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM & FITNESS CENTER  
355 MARTINS LANE  
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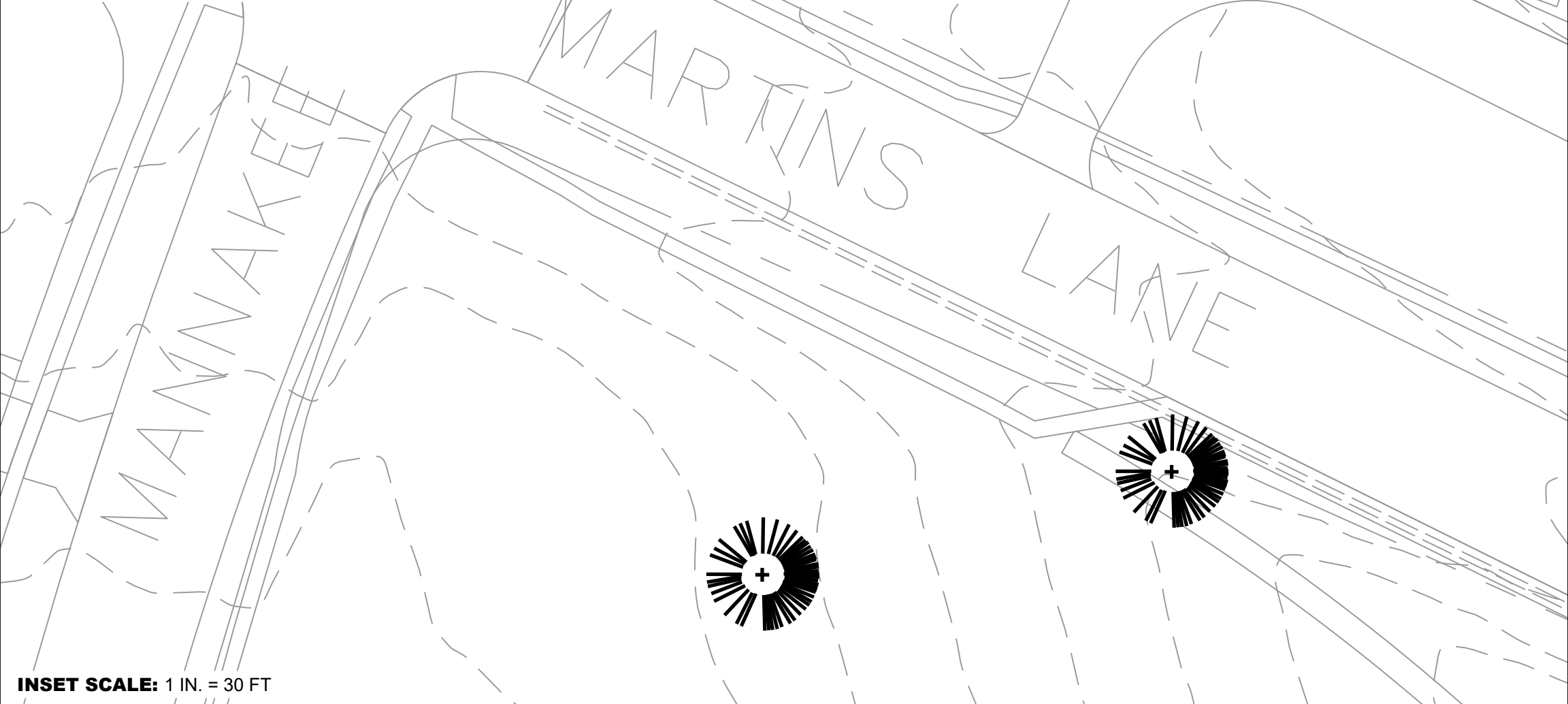
OUTDOOR RECREATION POOL RENOVATIONS

CITY OF ROCKVILLE, MARYLAND

FINAL FCP Mitigation Planting

100% CONSTRUCTION DOCUMENT

INSET



NOTE: TREE PLANTING LOCATIONS IN THE NORTHWEST CORNER OF THE PARK HAVE BEEN COORDINATED WITH THE CITY OF ROCKVILLE RECREATION AND PARKS DEPARTMENT. IF NECESSARY RECREATION AND PARKS MAY REVISE THE PROPOSED PLANTING LOCATIONS.

QUALIFIED PROFESSIONAL CERTIFICATION  
THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS OF THE CITY OF ROCKVILLE'S CODE AND THE ENVIRONMENTAL TECHNICAL MANUAL.

SIGNED: [Signature] DATE: 5/25/2023

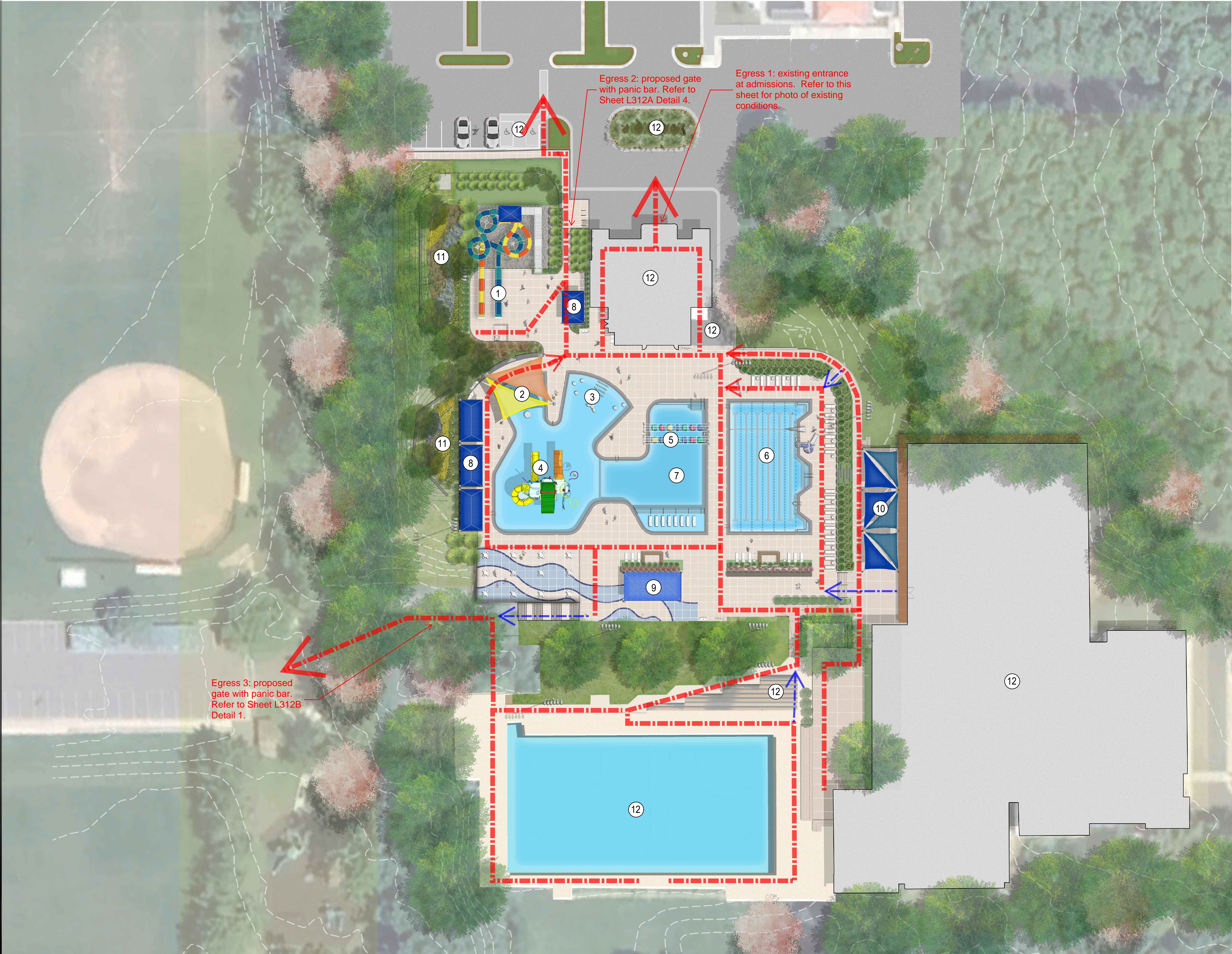
CENE KETCHAM  
WETLAND STUDIES & SOLUTIONS, INC.  
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MILLERSVILLE, MD 21108  
PH: 703-679-5723 FAX: 410-672-5993  
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NFC

1	Per Conditions of Approval	02/18/2024
No.	Description	Date
Revisions		
Project Number: P.WS18001830		
Scale: 1"=30'		
Drawn By: LY, CK		
Checked By: CK		
Date: 2/6/2024		
Sheet No. LJ-9		

BID SET 02/23/2024



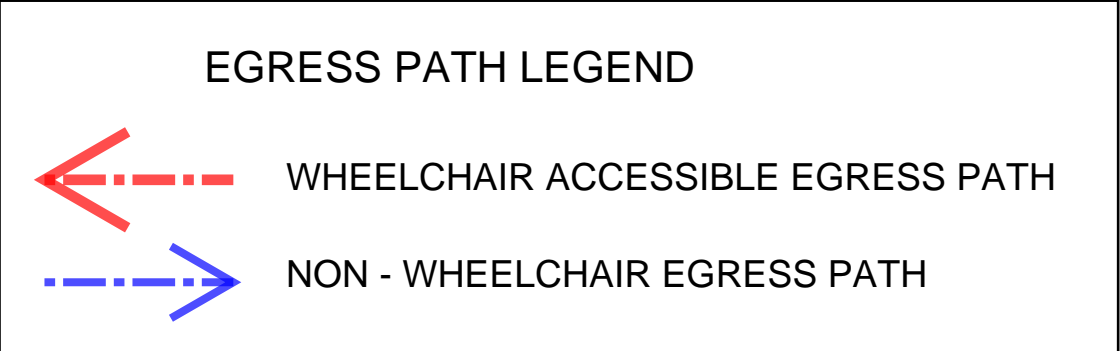


1 EGRESS 1

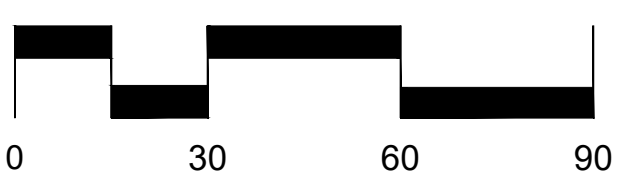
Egress 3: proposed gate with panic bar. Refer to Sheet L312B Detail 1.

Egress 2: proposed gate with panic bar. Refer to Sheet L312A Detail 4.

Egress 1: existing entrance at admissions. Refer to this sheet for photo of existing conditions.



NOTE: FOR ILLUSTRATION PURPOSE ONLY



- LEGEND**
- 1 RUN-OUT SLIDES
  - 2 TOT AREA WITH SHADE
  - 3 BEACH ENTRY WITH BUBBLERS
  - 4 IN-WATER PLAYGROUND
  - 5 LILLY PAD CROSSING
  - 6 WELLNESS POOL
  - 7 ACTIVITY POOL
  - 8 SHADE STRUCTURES/PICNIC PAVILIONS
  - 9 PICNIC PAVILION
  - 10 SHADE SAILS
  - 11 BIORETENTION
  - 12 EXISTING FACILITIES OUTSIDE LOD

**LSG LANDSCAPE ARCHITECTURE**

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

**OUTDOOR  
RECREATION POOL  
RENOVATIONS**

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

**OVERALL SITE  
PLAN AND EGRESS  
PATH DIAGRAM**

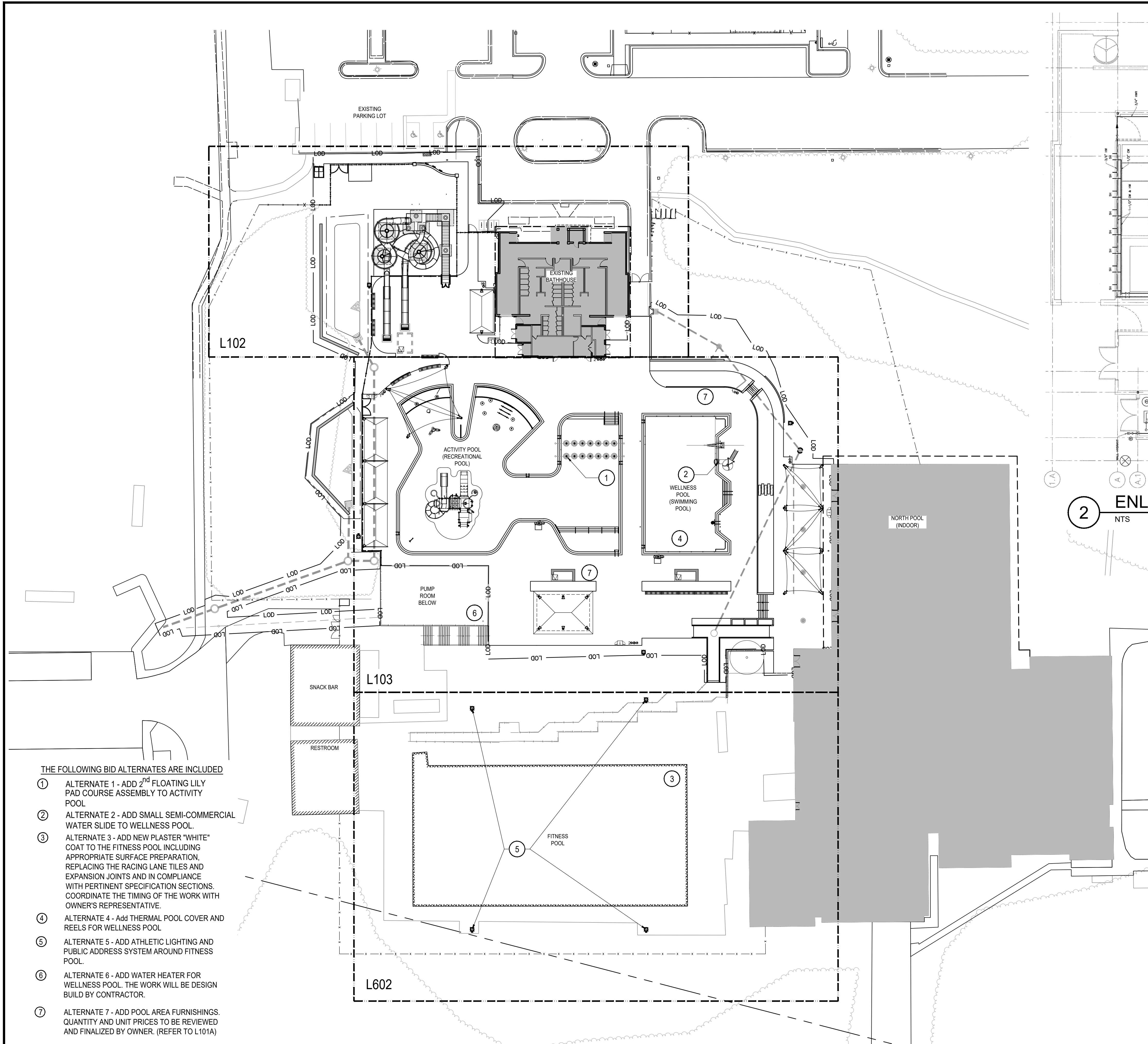
**BID SET**

1	65% CONSTRUCTION DOCUMENT 06/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	BUILDING PERMIT SET 12/08/2023
5	HD COMMENT RESPONSE 01/08/2024
6	BID SET 02/01/2024
7	BUILDING PERMIT SET 02/06/2024
8	BUILDING PERMIT SET 02/20/2024
9	BID SET 02/23/2024

No.	Description	Date
Revisions		
Project Number: 22.00036.00		
Scale: AS SHOWN		
Drawn By: AD, HW, BS		
Checked By: AD		
Date: 01/08/2024		
Sheet No.		L100

**BID SET 02/23/2024**



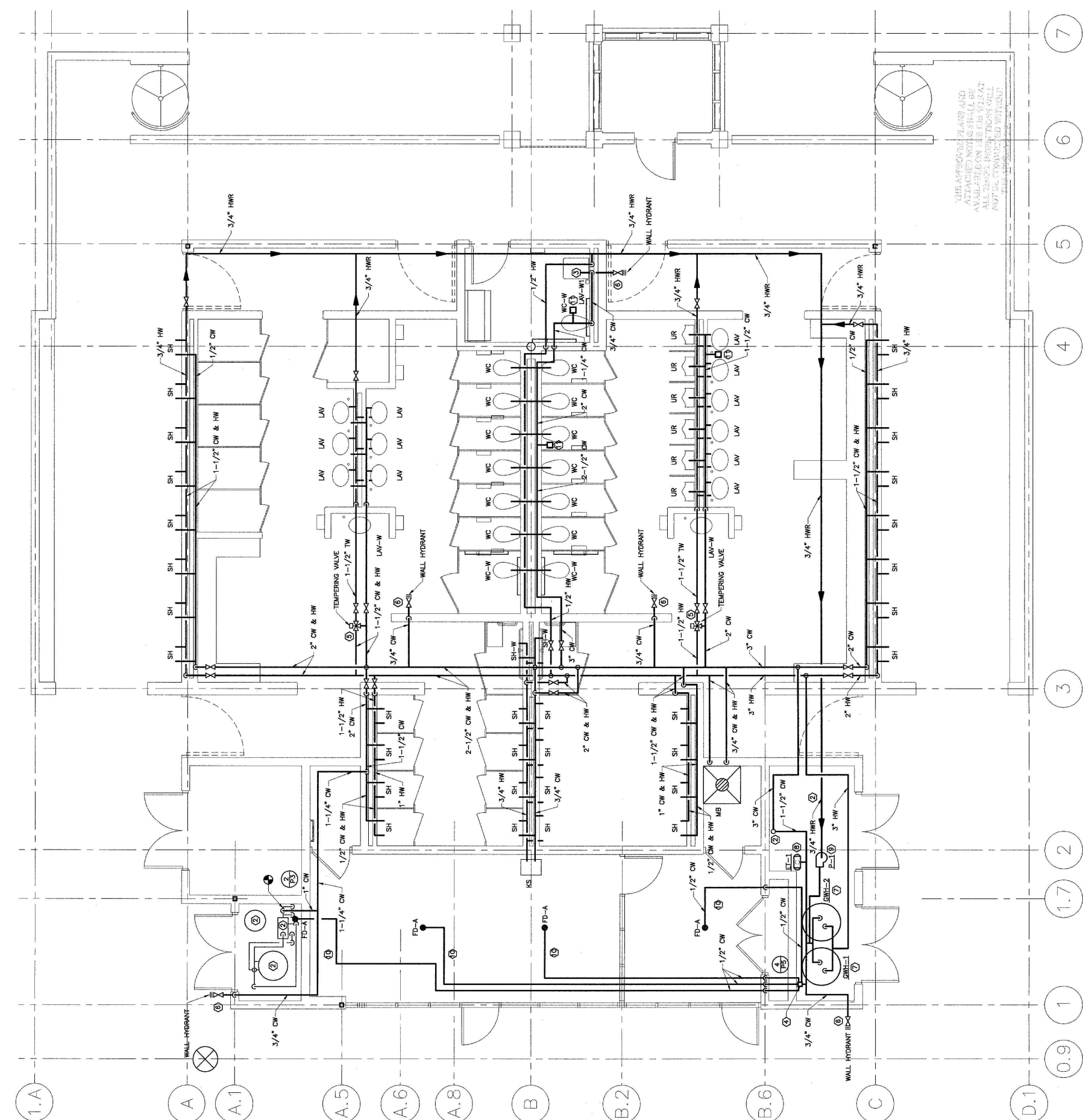
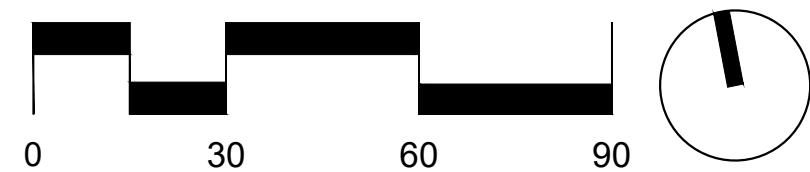


THE FOLLOWING BID ALTERNATES ARE INCLUDED

- ALTERNATE 1 - ADD 2<sup>nd</sup> FLOATING LILY PAD COURSE ASSEMBLY TO ACTIVITY POOL
- ALTERNATE 2 - ADD SMALL SEMI-COMMERCIAL WATER SLIDE TO WELLNESS POOL.
- ALTERNATE 3 - ADD NEW PLASTER "WHITE" COAT TO THE FITNESS POOL INCLUDING APPROPRIATE SURFACE PREPARATION, REPLACING THE RACING LANE TILES AND EXPANSION JOINTS AND IN COMPLIANCE WITH PERTINENT SPECIFICATION SECTIONS. COORDINATE THE TIMING OF THE WORK WITH OWNER'S REPRESENTATIVE.
- ALTERNATE 4 - Add THERMAL POOL COVER AND REELS FOR WELLNESS POOL
- ALTERNATE 5 - ADD ATHLETIC LIGHTING AND PUBLIC ADDRESS SYSTEM AROUND FITNESS POOL.
- ALTERNATE 6 - ADD WATER HEATER FOR WELLNESS POOL. THE WORK WILL BE DESIGN BUILD BY CONTRACTOR.
- ALTERNATE 7 - ADD POOL AREA FURNISHINGS. QUANTITY AND UNIT PRICES TO BE REVIEWED AND FINALIZED BY OWNER. (REFER TO L101A)

1 REFERENCE PLAN

1" = 30'-0"



2 ENLARGEMENT PLAN: FOR REFERENCE ONLY.  
NTS

LEGEND

- LOD LIMITS OF DISTURBANCE - TRANSITION TO EXISTING CONDITIONS
- x-x EXISTING CHAIN LINK FENCE
- - - EXISTING GUARD RAIL
- 3 7' HIGH L312A POOL FENCE
- 5 4' HIGH L312A POOL FENCE
- 6 DRINKING WATER L313 FOUNTAIN TYPE 1
- 7 DRINKING WATER L313 FOUNTAIN TYPE 2
- 1 BIKE L313 RACK
- 5 TRASH & RECYCLING L313 RECEPTACLE
- L1 1 POLE LIGHT WITH GFCI L317 OUTLET
- L2 2 SHADE STRUCTURE L317 LIGHT
- 3 ENTRY SIGN L317 FLOODLIGHT
- SS EXISTING SANITARY SEWER
- W EXISTING WATER
- G EXISTING GAS
- G PROPOSED GAS

NOTES

- DRINKING WATER FOUNTAIN - PER MONTGOMERY COUNTY REGULATION NO. 22-12 COMCOR SECTION V.I.E. THERE IS A REQUIREMENT FOR 1 DRINKING FOUNTAIN PER 2,500 SF OF WATER SURFACE. THE WATER SURFACE IS 13,514 SF SO THE REQUIRED 6 DRINKING FOUNTAINS HAVE BEEN PROVIDED.
- FOOT SPRAY - PER MONTGOMERY COUNTY REGULATION NO. 22-12 COMCOR SECTION V.I.E. FOOT SPRAYS HAVE BEEN PROVIDED BETWEEN LAWN AND HARDSCAPE TRANSITIONS.

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
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703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

REFERENCE  
PLAN AND ADD  
ALTERNATES

BID SET

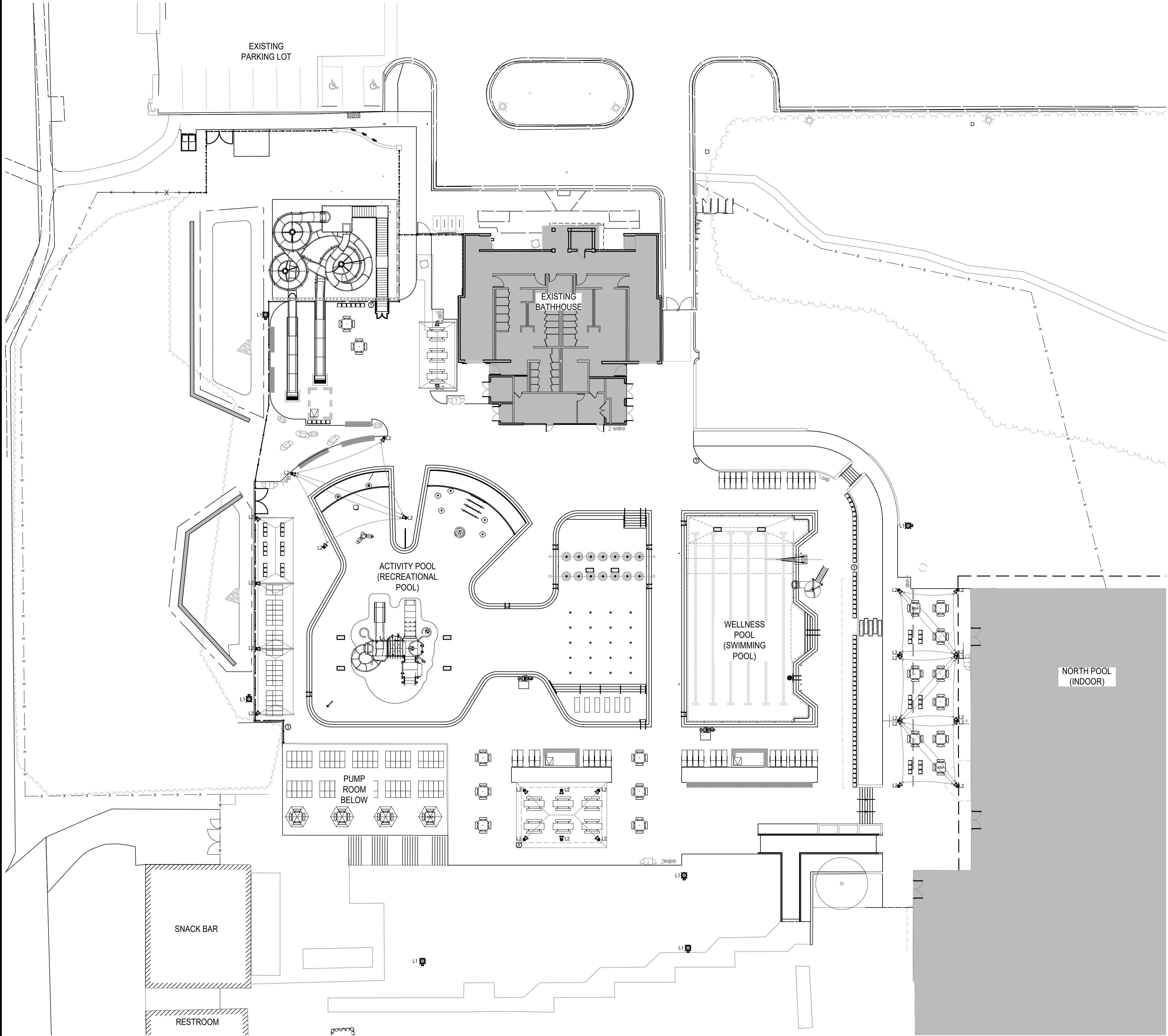
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7	BUILDING PERMIT SET	02/06/2024
8	BUILDING PERMIT SET	02/20/2024
9	BID SET	02/23/2024

No.	Description	Date
Revisions		
Project Number: 22.00036.00		
Scale: AS SHOWN		
Drawn By: AD, HW, BS		
Checked By: AD		
Date: 01/08/2024		
Sheet No.		L101

NFC

BID SET 02/23/2024





1 REFERENCE PLAN  
1" = 20'-0"

LEGEND

- L&D — LIMITS OF DISTURBANCE - TRANSITION TO EXISTING CONDITIONS  
— x — x — EXISTING CHAIN LINK FENCE  
— — — EXISTING GUARD RAIL  
— — — 4" DIAMETER SCHEDULE 40 IRRIGATION SLEEVE FOR FUTURE USE  
— — — 3 7' HIGH L312A POOL FENCE  
— — — 5 4' HIGH L312A POOL FENCE  
1 6 DRINKING WATER L313 FOUNTAIN TYPE 1  
2 7 DRINKING WATER L313 FOUNTAIN TYPE 2  
— 1 BIKE L313 RACK  
— 5 TRASH & RECYCLING L313 RECEPTACLE

ADD ALTERNATE 6

- 6A & 6B: PICNIC TABLE SHOWN FOR REFERENCE ONLY  
6C: PICNIC TABLE WITH UMBRELLA SHOWN FOR REFERENCE ONLY  
6D: PICNIC TABLE SHOWN FOR REFERENCE ONLY  
6E: CHAISE LOUNGE SHOWN FOR REFERENCE ONLY  
6F: SAND CHAIR SHOWN FOR REFERENCE ONLY  
6G: DINING CHAIR SHOWN FOR REFERENCE ONLY  
6H: IN-WATER CHAISE LOUNGE SHOWN FOR REFERENCE ONLY  
6I: MOVABLE TRASH RECEPTACLE SHOWN FOR REFERENCE ONLY

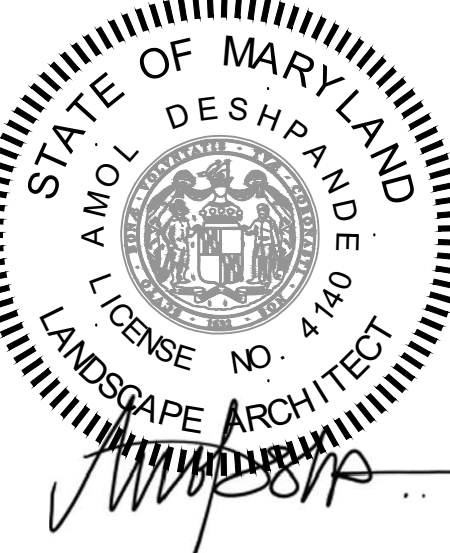
- L1 1 POLE LIGHT WITH GFCI L317 OUTLET  
L2 2 SHADE SRUCTURE L317 LIGHT  
1 3 ENTRY SIGN L317 FLOODLIGHT

NOTES

1. DRINKING WATER FOUNTAIN - PER MONTGOMERY COUNTY REGULATION NO. 22-12 COMCOR SECTION V.I.E. THERE IS A REQUIREMENT FOR 1 DRINKING FOUNTAIN PER 2,500 ST OF WATER SURFACE. THE WATER SURFACE IS 13,514 SF SO THE REQUIRED 6 DRINKING FOUNTAINS HAVE BEEN PROVIDED.
2. FOOT SPRAY - PER MONTGOMERY COUNTY REGULATION NO. 22-12 COMCOR SECTION V.I.E. FOOT SPRAYS HAVE BEEN PROVIDED BETWEEN LAWN AND HARDSCAPE TRANSITIONS.
3. THE LOCATIONS AND QUANTITIES SHOWN ARE APPROXIMATE. REFER TO SEPARATE DOCUMENT FOR THE ADD ALTERNATIVE MOVABLE FURNITURE QUANTITIES.

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
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ROCKVILLE SWIM  
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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

REFERENCE PLAN:  
ADD ALTERNATE:  
MOVABLE FURNITURE

BID SET

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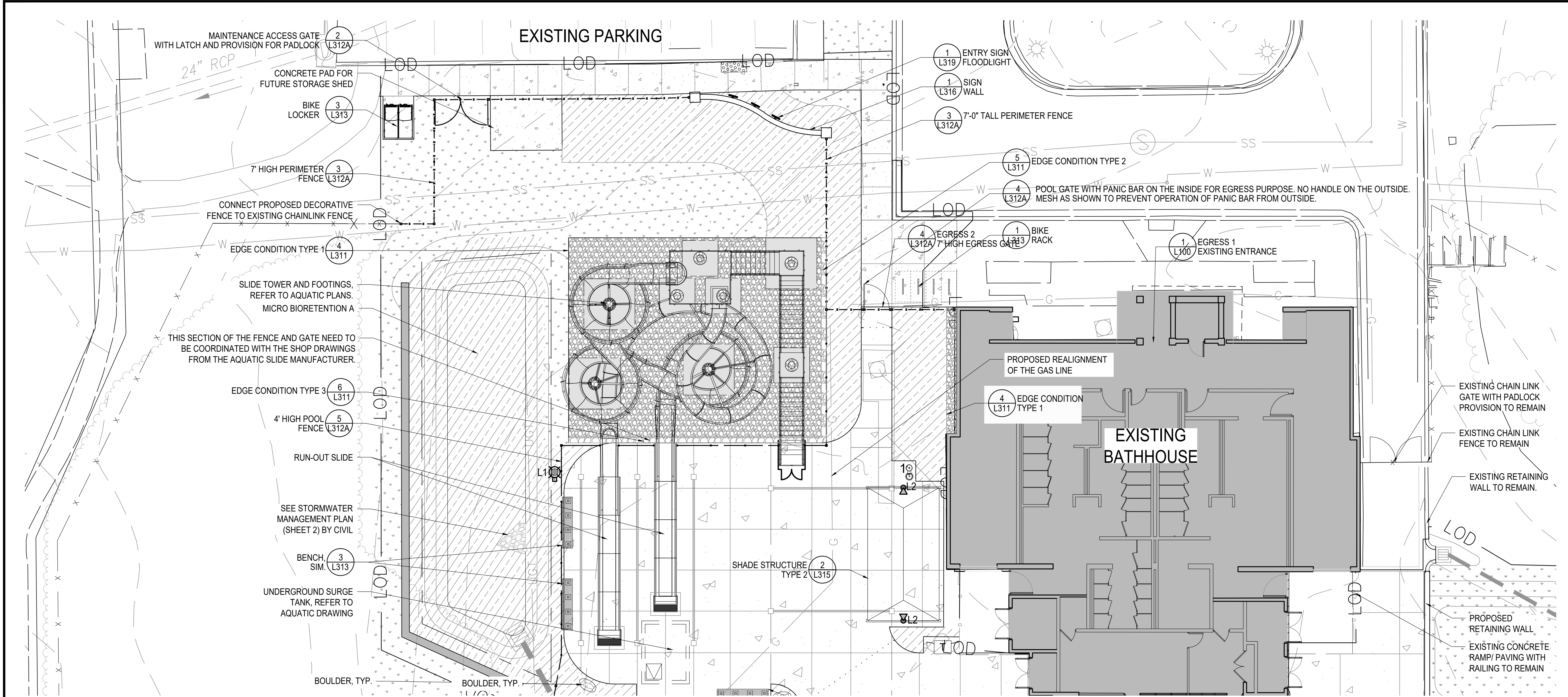
No.	Description	Date
Revisions		

Project Number:	22.00036.00
Scale:	AS SHOWN
Drawn By:	AD, HW, BS
Checked By:	AD
Date:	01/08/2024

Sheet No. L101A

NFC





1 ENLARGEMENT PLAN  
1" = 10'-0"

LEGEND

- 1

CONCRETE PAVING

CONCRETE DECKING, REFER TO ADG DRAWINGS

CONCRETE PAVING WITH TRAFFIC COATING: COLOR A

CONCRETE PAVING WITH TRAFFIC COATING: COLOR B

LAWN AREA

PLANTING AREA

RIVER ROCK 2" TO 3" STONES

#57 STONE
- LOD

LIMITS OF DISTURBANCE - TRANSITION TO EXISTING CONDITIONS

x x

EXISTING CHAIN LINK FENCE

---

EXISTING GUARD RAIL

3

7' HIGH POOL FENCE

5

4' HIGH POOL FENCE

6

DRINKING WATER FOUNTAIN TYPE 1

7

DRINKING WATER FOUNTAIN TYPE 2

1

BIKE RACK

5

TRASH & RECYCLING RECEPTACLE

1

POLE LIGHT WITH GFCI OUTLET

2

SHADE STRUCTURE LIGHT

3

ENTRY SIGN FLOODLIGHT
- SS

EXISTING SANITARY SEWER

W

EXISTING WATER

G

EXISTING GAS

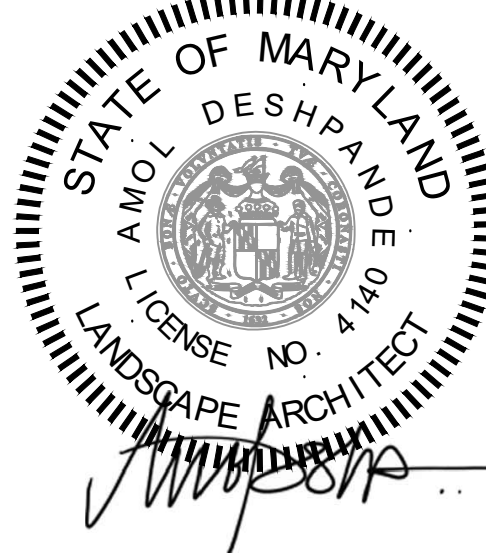
G

PROPOSED GAS

NFC

LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE  
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TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM & FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF RECREATION AND PARKS

OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

ENLARGEMENT PLAN

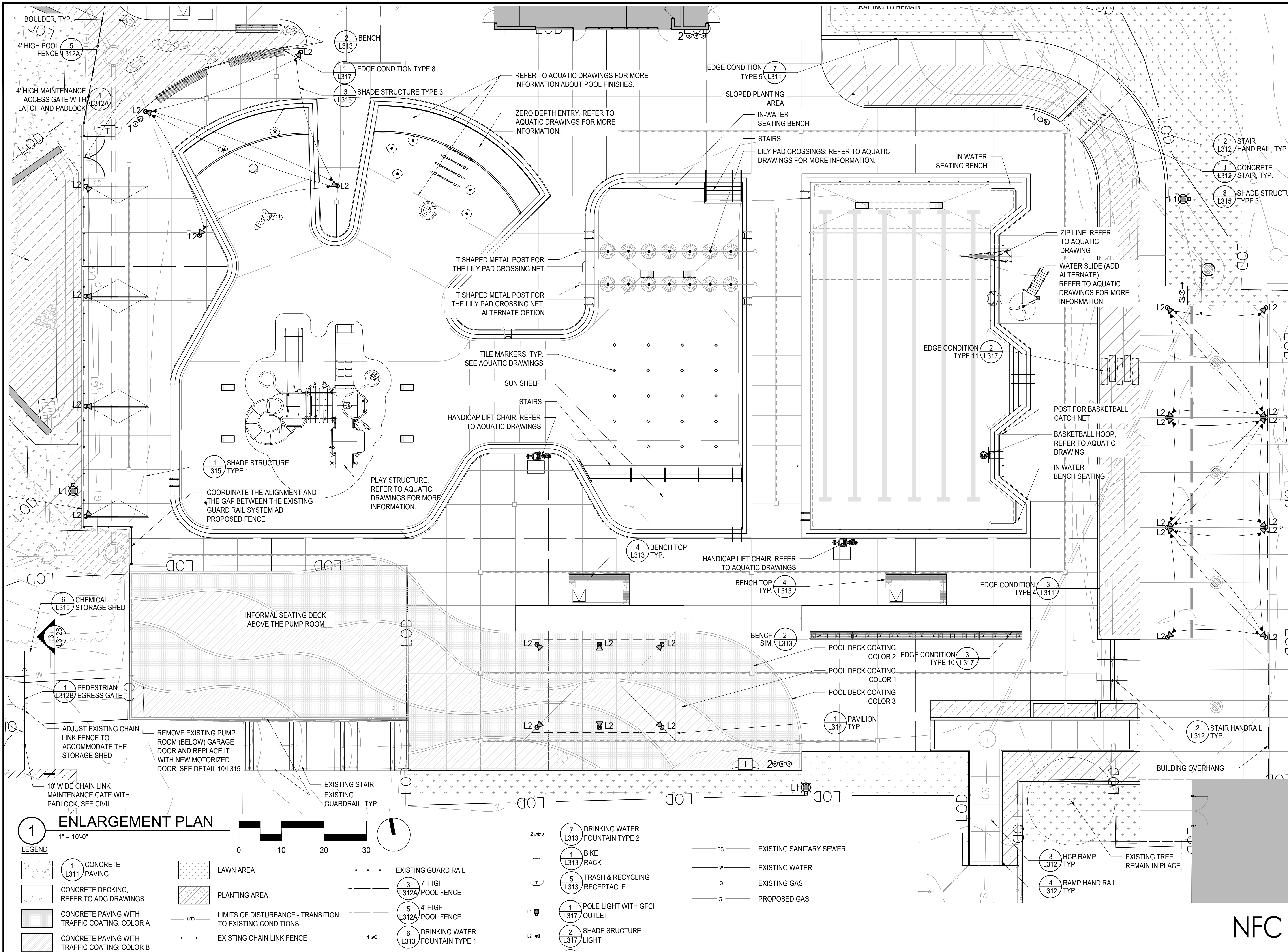
BID SET

1	65% CONSTRUCTION DOCUMENT 06/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	BUILDING PERMIT SET 12/08/2023
5	HD COMMENT RESPONSE 01/08/2024
6	BID SET 02/01/2024
7	BUILDING PERMIT SET 02/06/2024
8	BUILDING PERMIT SET 02/20/2024
9	BID SET 02/23/2024

No.	Description	Date
Revisions		
Project Number: 22.00036.00		
Scale: AS SHOWN		
Drawn By: AD, HW, BS		
Checked By: AD		
Date: 01/08/2024		
Sheet No. L102		

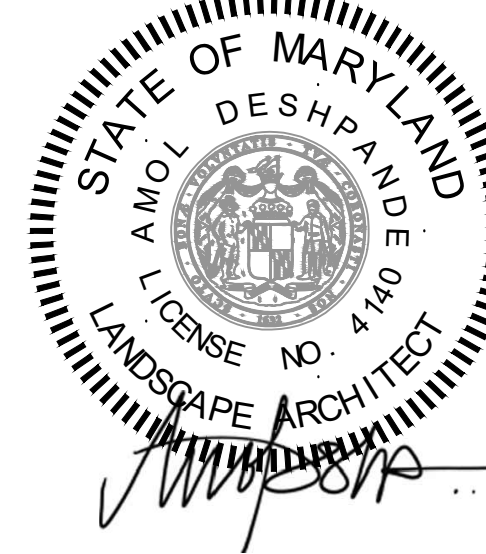
BID SET 02/23/2024





LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

ENLARGEMENT  
PLAN

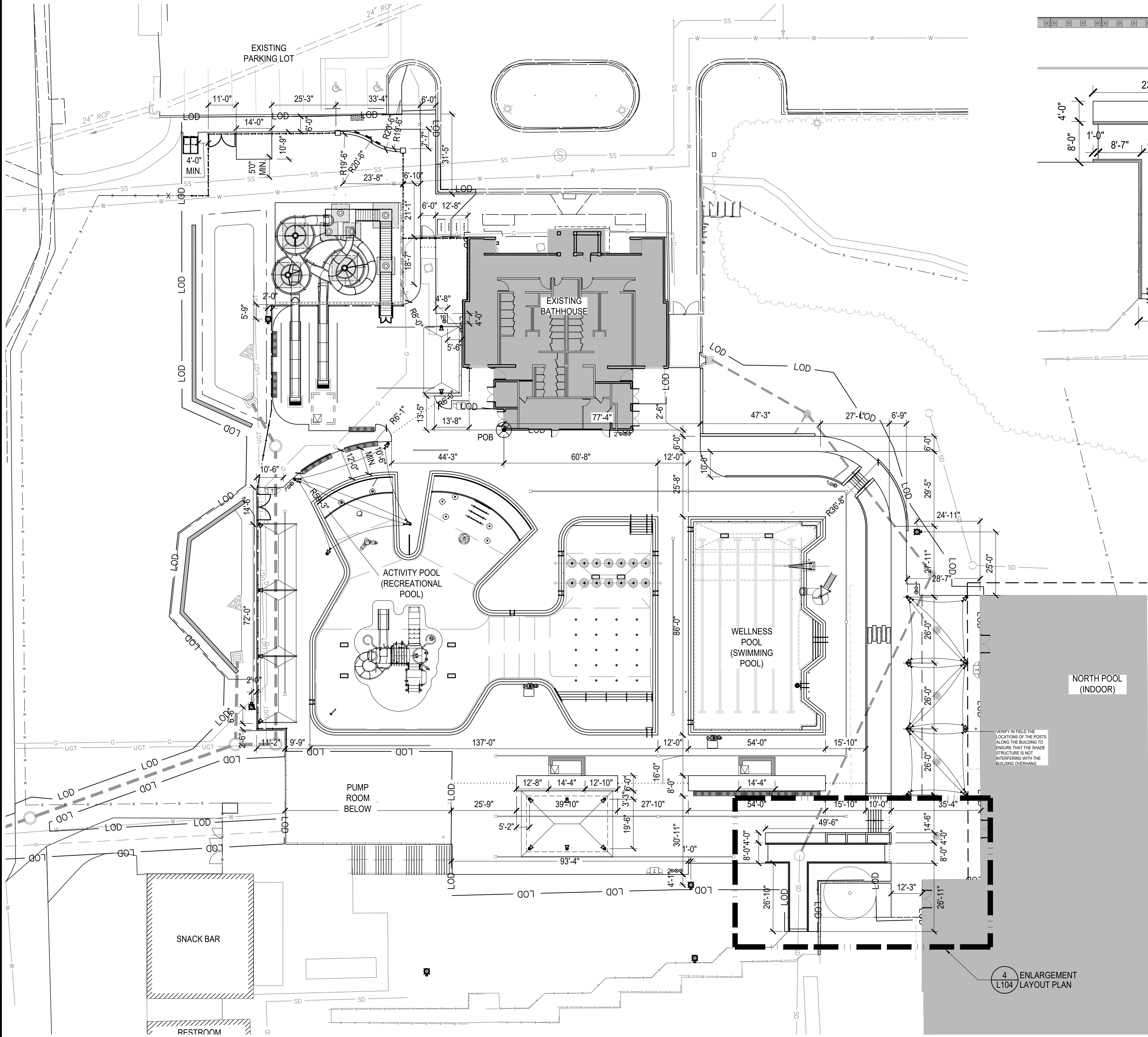
BID SET

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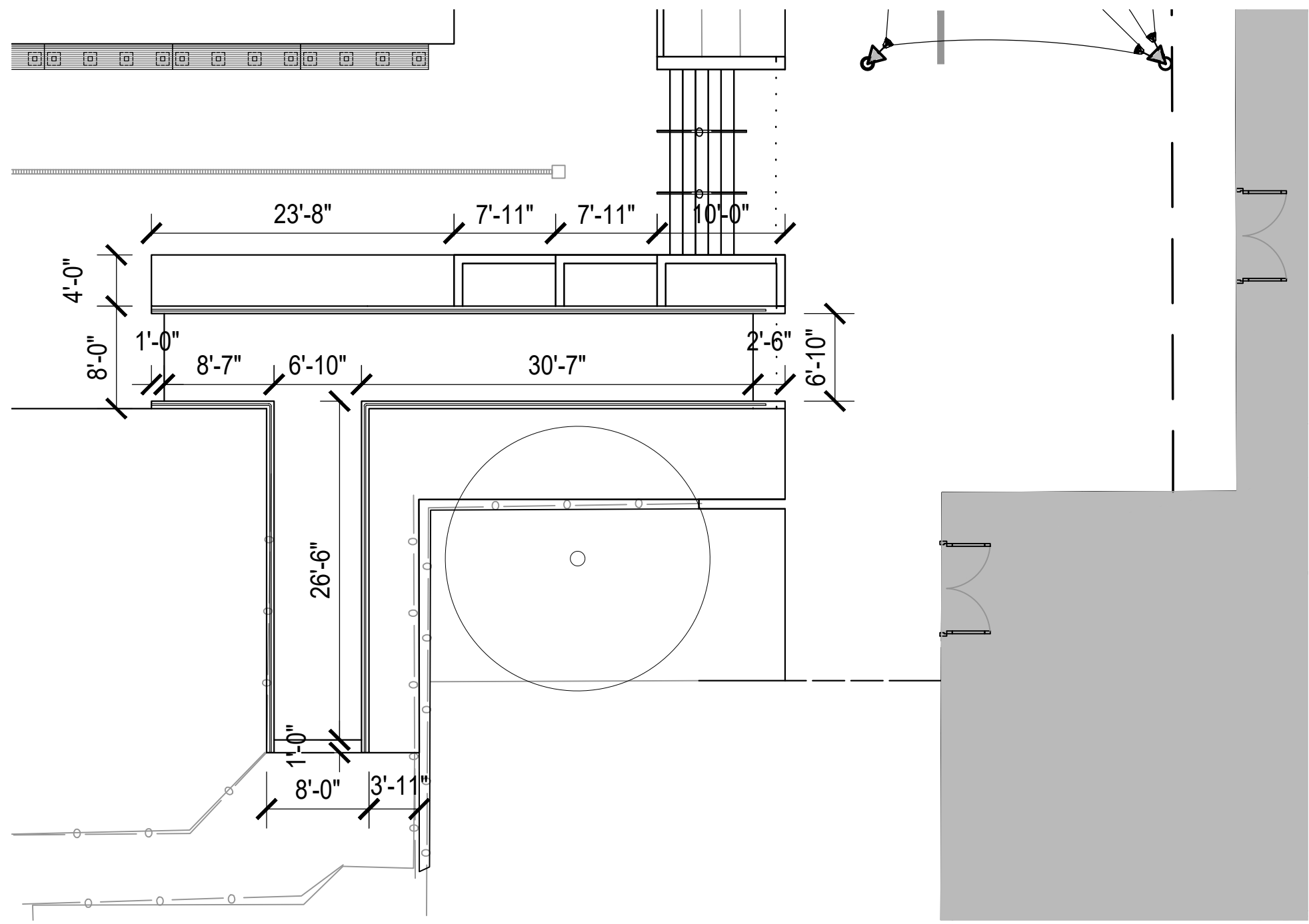
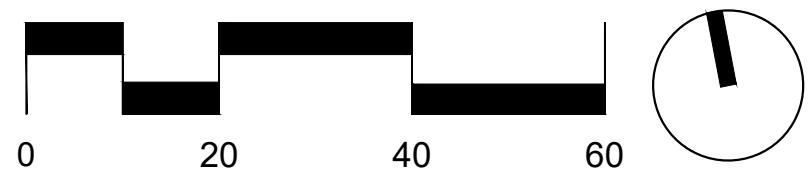
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Revisions		
Project Number: 22.00036.00		
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Drawn By:	AD, HW, BS	
Checked By:	AD	
Date:	01/08/2024	
Sheet No.	L103	

NFC

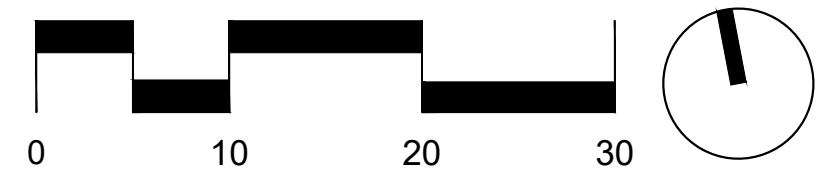




1 LAYOUT PLAN  
1" = 20'-0"



2 ENLARGEMENT LAYOUT PLAN  
1" = 10'-0"



VERIFY IN FIELD THE  
LOCATIONS OF THE POSTS  
ALONG THE BUILDING TO  
ENSURE THAT THE SHADE  
STRUCTURE IS NOT  
INTERFERING WITH THE  
BUILDING OVERHANG

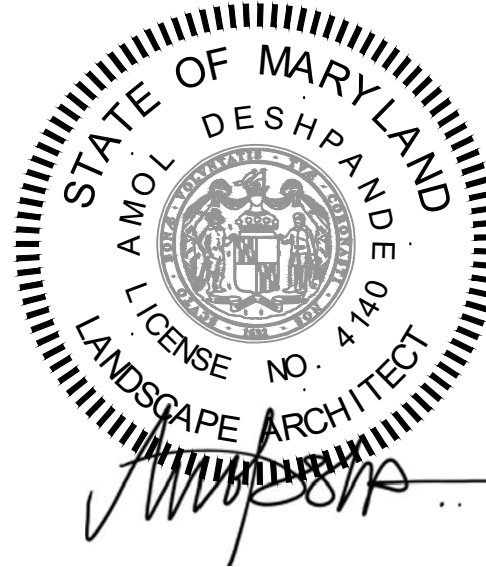
4 ENLARGEMENT  
L104 LAYOUT PLAN

LEGEND

..... 4" DIAMETER SCHEDULE 40  
IRRIGATION SLEEVE FOR FUTURE  
USE

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

LAYOUT  
PLAN

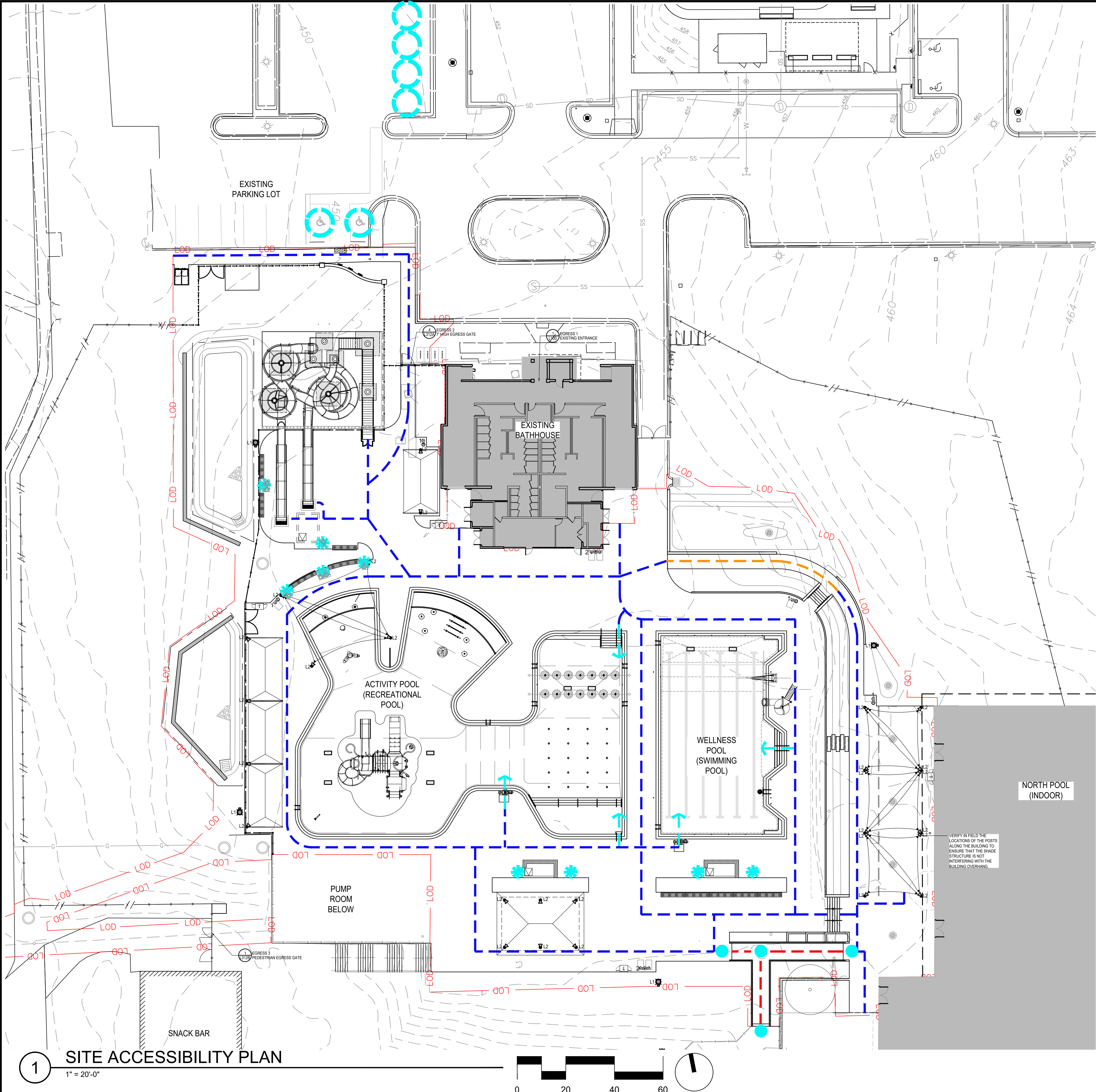
BID SET

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No.	Description	Date
Revisions		
Project Number: 22.00036.00		
Scale: AS SHOWN		
Drawn By: AD, HW, BS		
Checked By: AD		
Date: 01/08/2024		
Sheet No.		L104

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- ADA LEGEND**
- EXISTING ADA ACCESSIBLE PARKING
  - ADA ACCESSIBLE SEATING, SEE 2/L313
  - ACCESSIBLE POOL ENTRY
  - ADA ACCESSIBLE ROUTE - 2.0% RUNNING SLOPE OR LESS
  - ADA ACCESSIBLE ROUTE - 2.1% TO 5.0% RUNNING SLOPE
  - ADA ACCESSIBLE ROUTE - 5.1% TO 8.0% RUNNING SLOPE
  - LANDINGS

- ADA NOTES**
- THE LIMIT OF DISTURBANCE REPRESENTS THE EXTENT OF ADA REVIEW.
  - CONTRACTOR IS RESPONSIBLE FOR TRANSITIONING FROM PROPOSED CONDITIONS TO EXISTING CONDITIONS, AT LIMITS OF DISTURBANCE, THAT COMPLY WITH SECTIONS 302, 303, AND ANY APPLICABLE SECTIONS OF 2010 ADA STANDARDS.
  - ADA COMPLIANCE NOTE: THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL ELEMENTS ARE CONSTRUCTED IN ACCORDANCE WITH THE LATEST VERSION OF ADA STANDARDS FOR ACCESSIBLE DESIGN, BY THE DEPARTMENT OF JUSTICE. SHOULD ANY QUESTIONS ARISE DURING CONSTRUCTION, INSTALLATION, OR IF ANY CLARIFICATIONS ARE NEEDED, THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION MANAGER AND THE ARCHITECT.
  - SEE CIVIL GRADING PLANS FOR SPOT ELEVATIONS AND GENERAL NOTES.
  - ALL ADA ROUTES TO MEET APPLICABLE ADA REQUIREMENTS.
  - ALL DRINKING FOUNTAINS AND FOOT WASH TO MEET APPLICABLE ADA REQUIREMENTS.
  - SEATING TO PROVIDE AT LEAST 10% ACCESSIBLE SEATING LOCATIONS WITH FORWARD APPROACH AND CLEAR FLOOR SPACE.
  - LEGEND SHOWS RUNNING SLOPE. ALL PATHS MUST HAVE A CROSS SLOPE OF LESS THAN 2%. ALL LANDINGS MUST HAVE SLOPE OF LESS THAN 2% IN BOTH DIRECTIONS.

- LEGEND**
- CONCRETE PAVING
  - CONCRETE DECKING, REFER TO ADG DRAWINGS
  - PLANTING AREA
  - LIMITS OF DISTURBANCE - TRANSITION TO EXISTING CONDITIONS
  - EXISTING CHAIN LINK FENCE
  - EXISTING GUARD RAIL
  - 7' HIGH POOL FENCE
  - 4' HIGH POOL FENCE
  - DRINKING WATER FOUNTAIN TYPE 1
  - DRINKING WATER FOUNTAIN TYPE 2
  - BIKE RACK
  - TRASH & RECYCLING RECEPTACLE
  - POLE LIGHT WITH GFCI OUTLET
  - SHADE STRUCTURE LIGHT

**LSG LANDSCAPE ARCHITECTURE**

8240 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

**OUTDOOR  
RECREATION POOL  
RENOVATIONS**

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

**SITE ACCESSIBILITY  
PLAN**

BID SET

1	65% CONSTRUCTION DOCUMENT 06/25/2023
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8	BUILDING PERMIT SET 02/20/2024
9	BID SET 02/23/2024

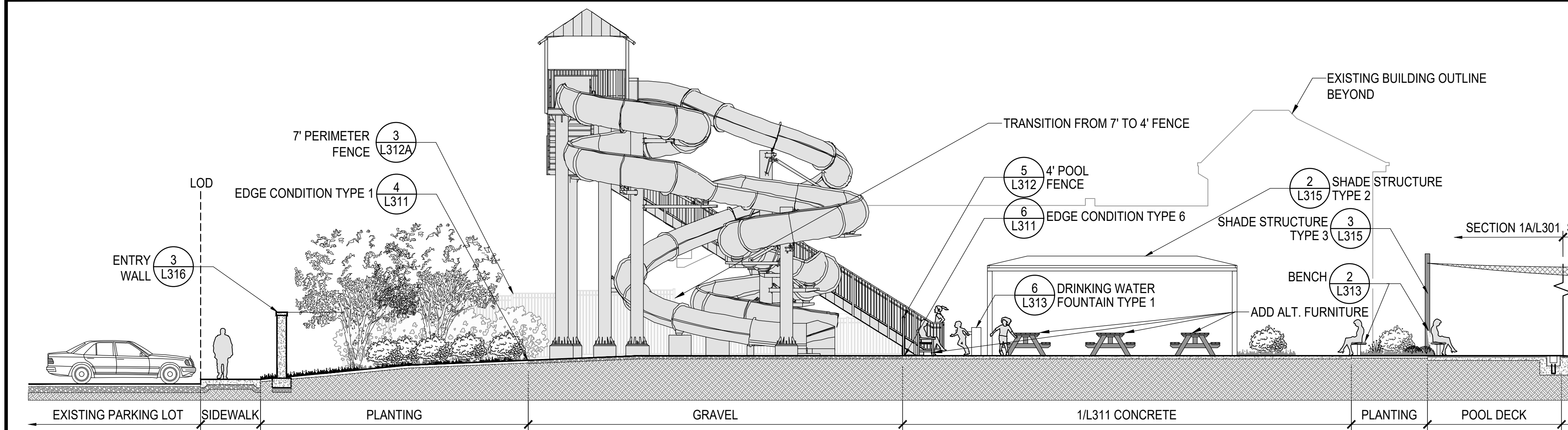
No.	Description	Date
Revisions		

Project Number:	22.00036.00
Scale:	AS SHOWN
Drawn By:	AD, HW, BS
Checked By:	AD
Date:	01/08/2024

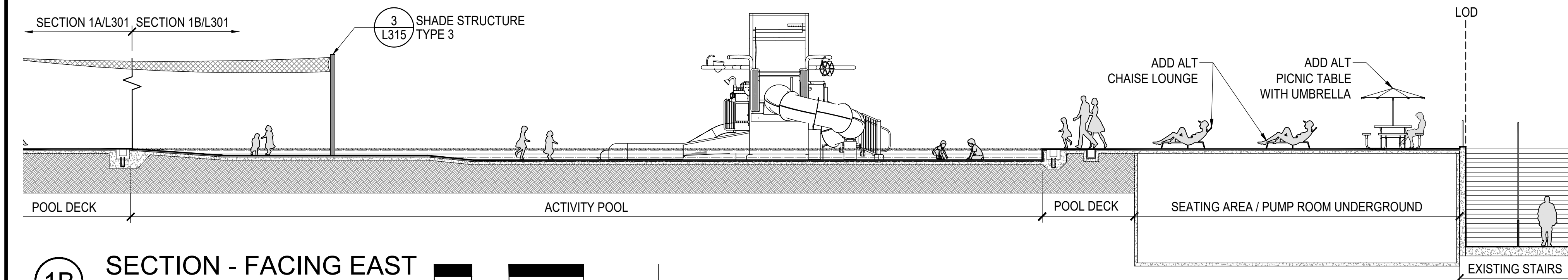
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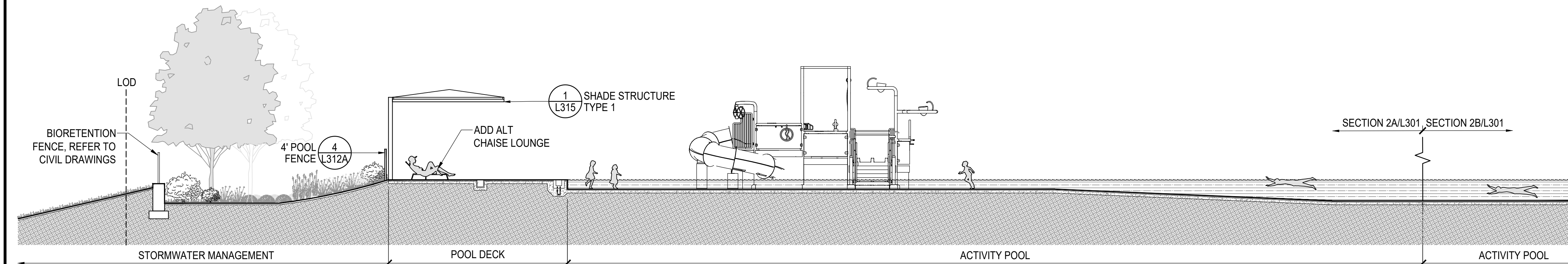




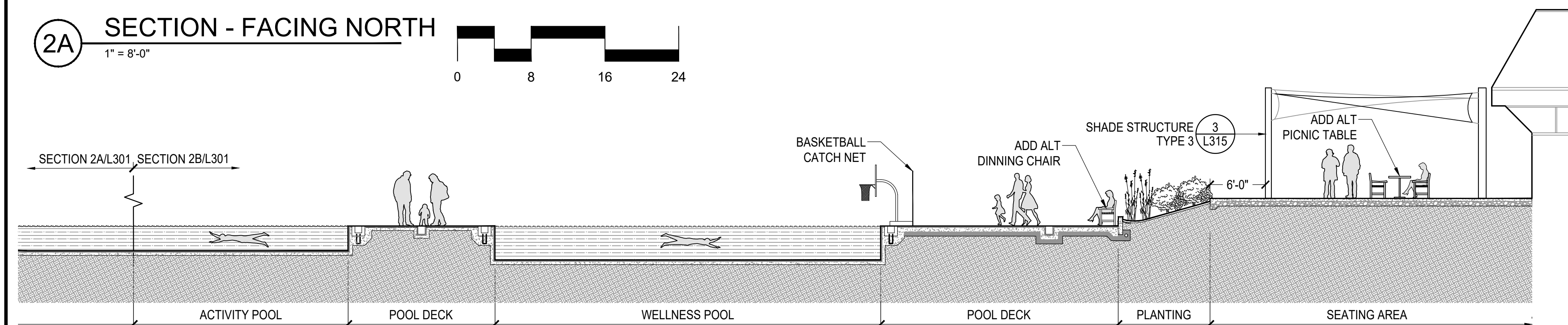
1A SECTION - FACING EAST  
1" = 8'-0"



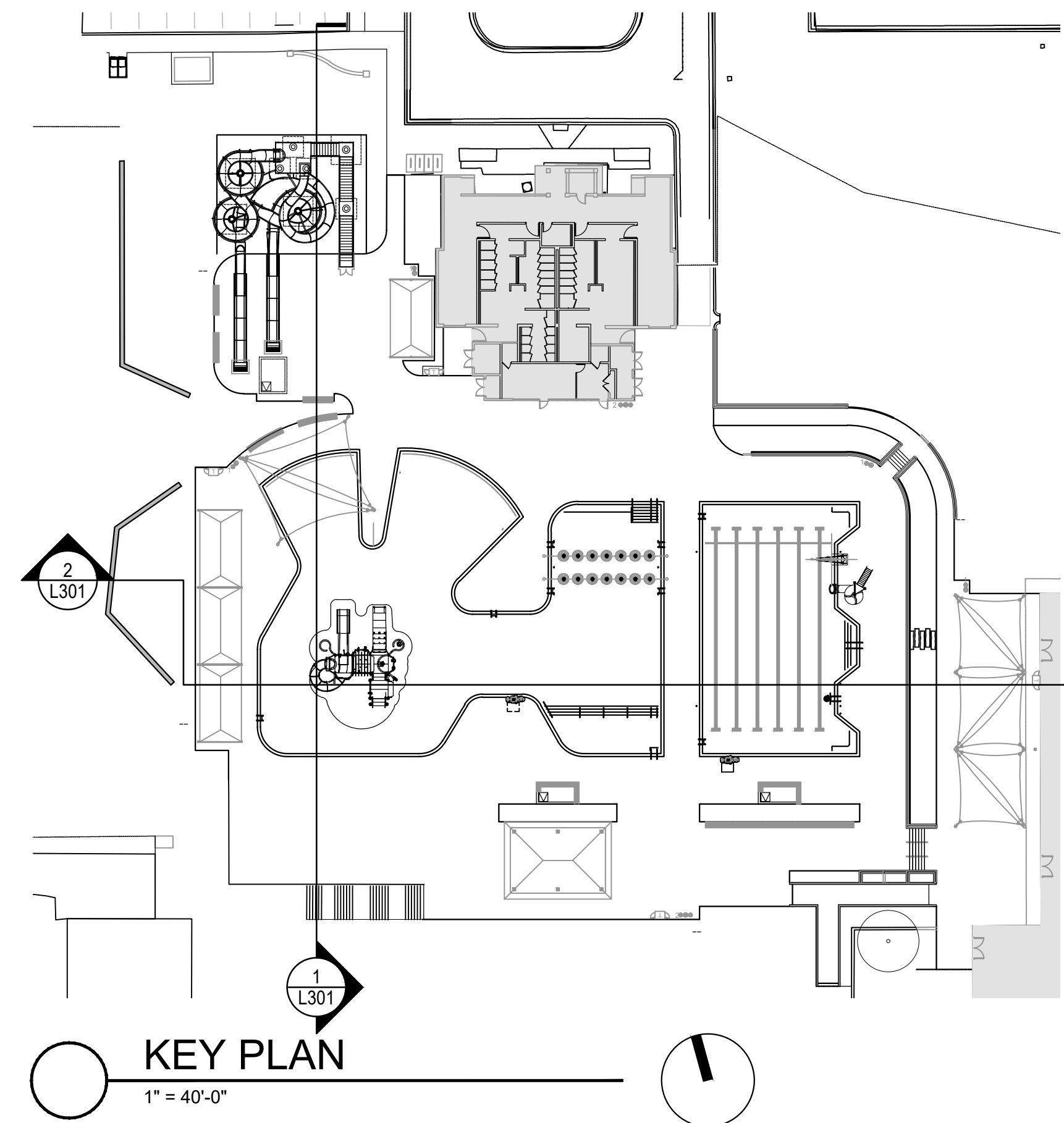
1B SECTION - FACING EAST  
1" = 8'-0"



2A SECTION - FACING NORTH  
1" = 8'-0"



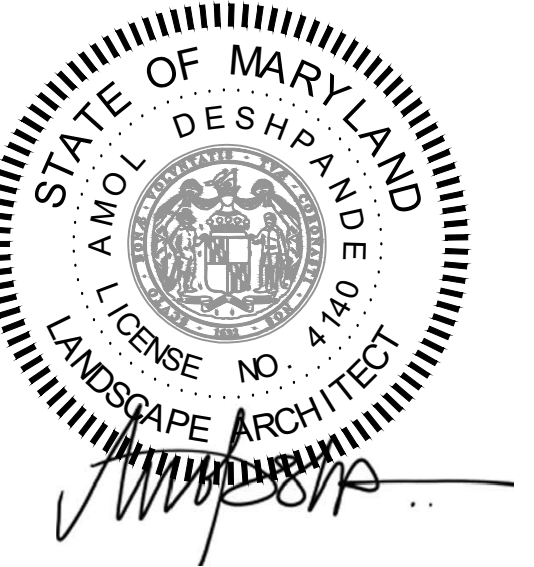
2B SECTION - FACING NORTH  
1" = 8'-0"



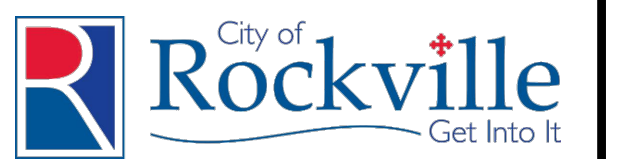
KEY PLAN  
1" = 40'-0"

LSG LANDSCAPE  
ARCHITECTURE

8240 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

SECTIONS  
AND ELEVATIONS

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No.	Description	Date
Revisions		

Project Number:	22.00036.00
Scale:	AS SHOWN
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Date:	01/08/2024

Sheet No.	L301
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NFC

BID SET 02/23/2024



LSG LANDSCAPE  
ARCHITECTURE

8240 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

SECTIONS  
AND ELEVATIONS

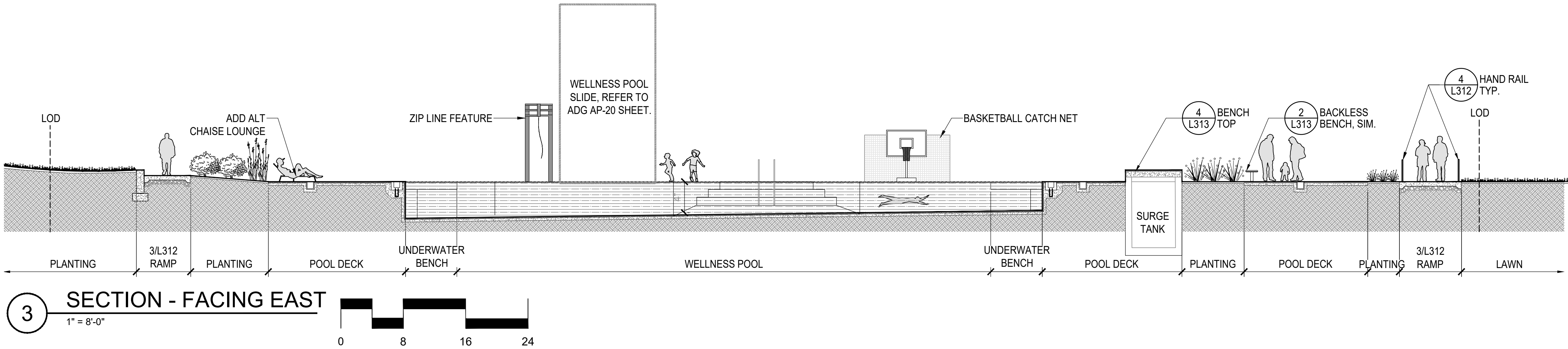
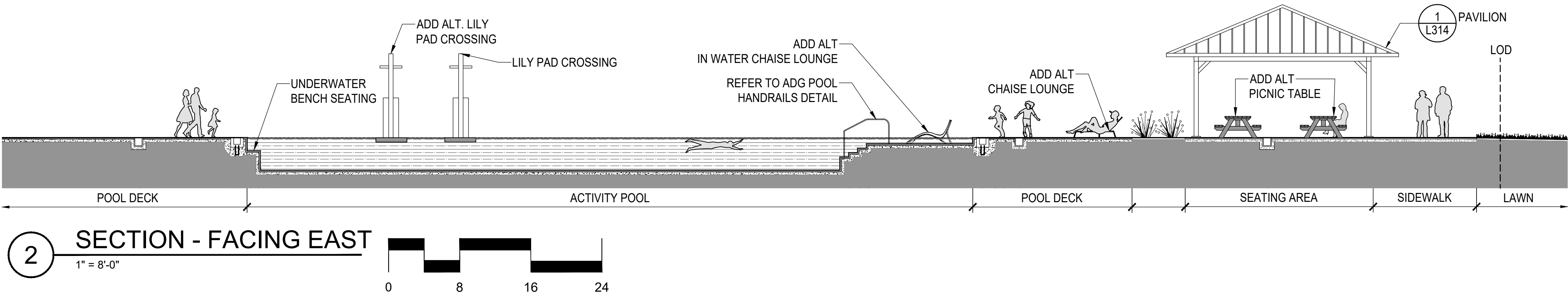
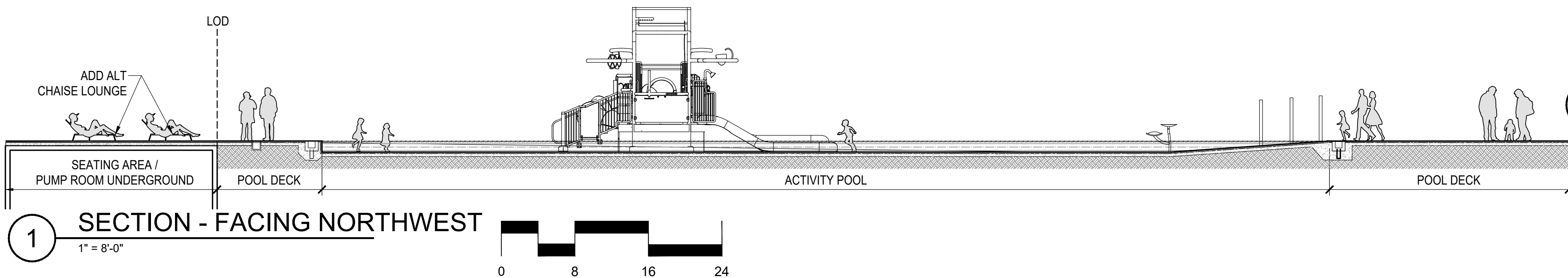
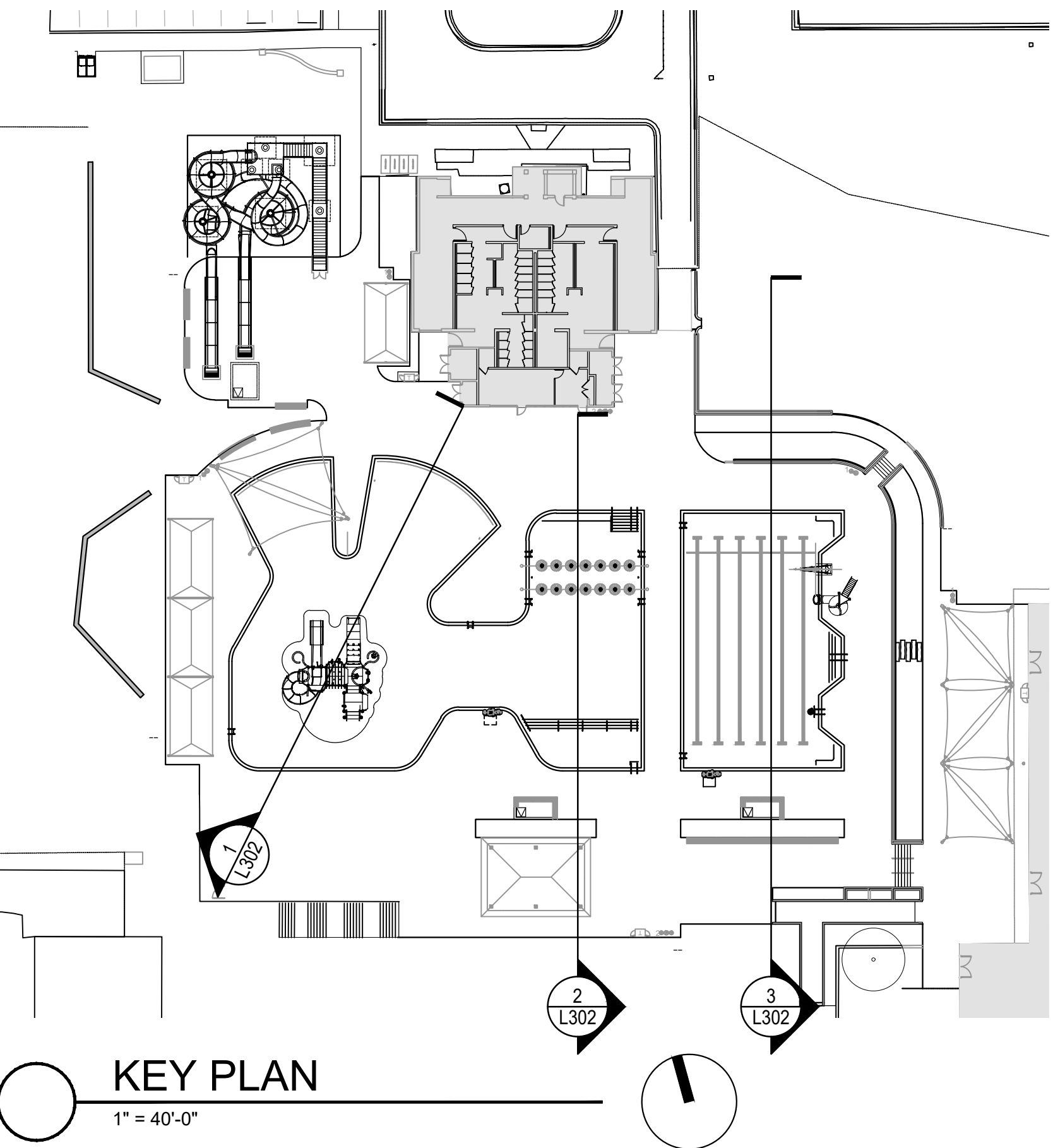
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No.	Description	Date
Revisions		

Project Number: 22.00036.00  
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Checked By: AD  
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Sheet No. L302



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LSG LANDSCAPE  
ARCHITECTURE

8240 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

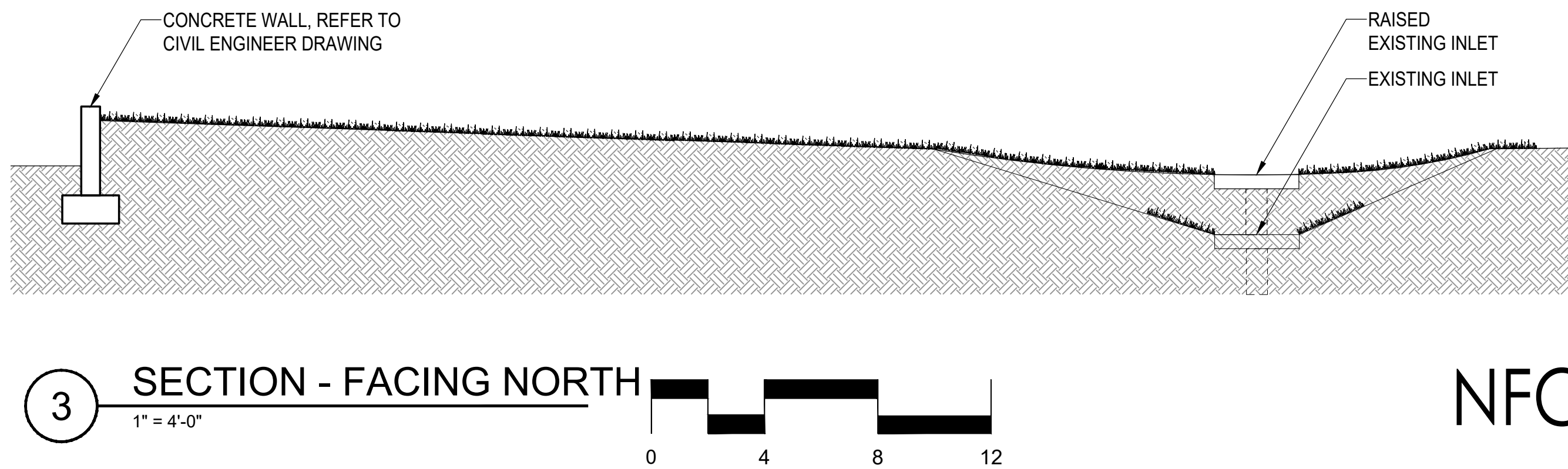
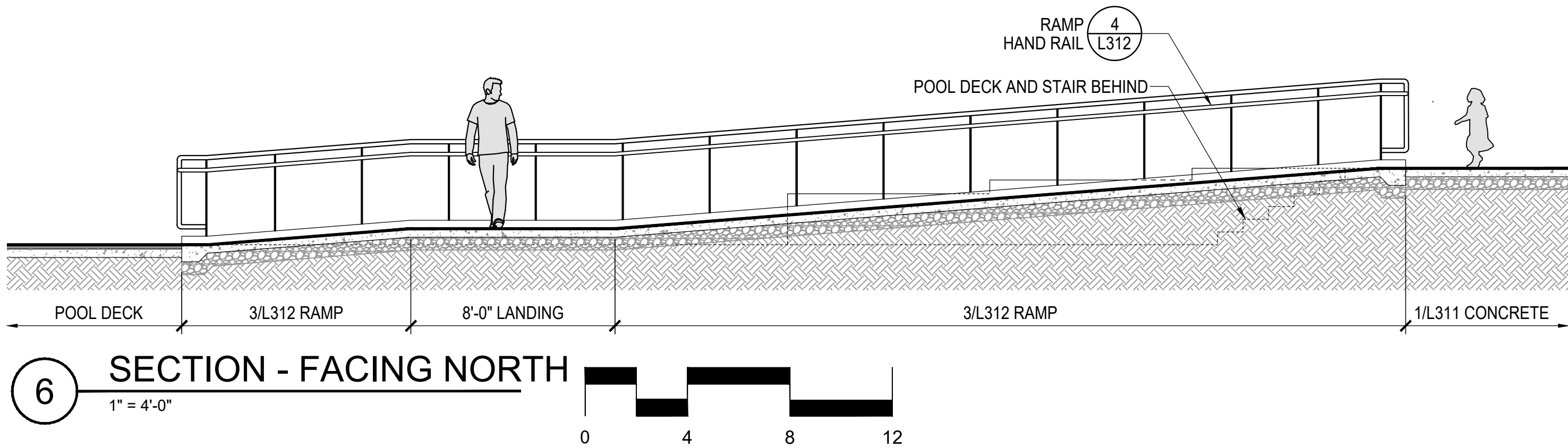
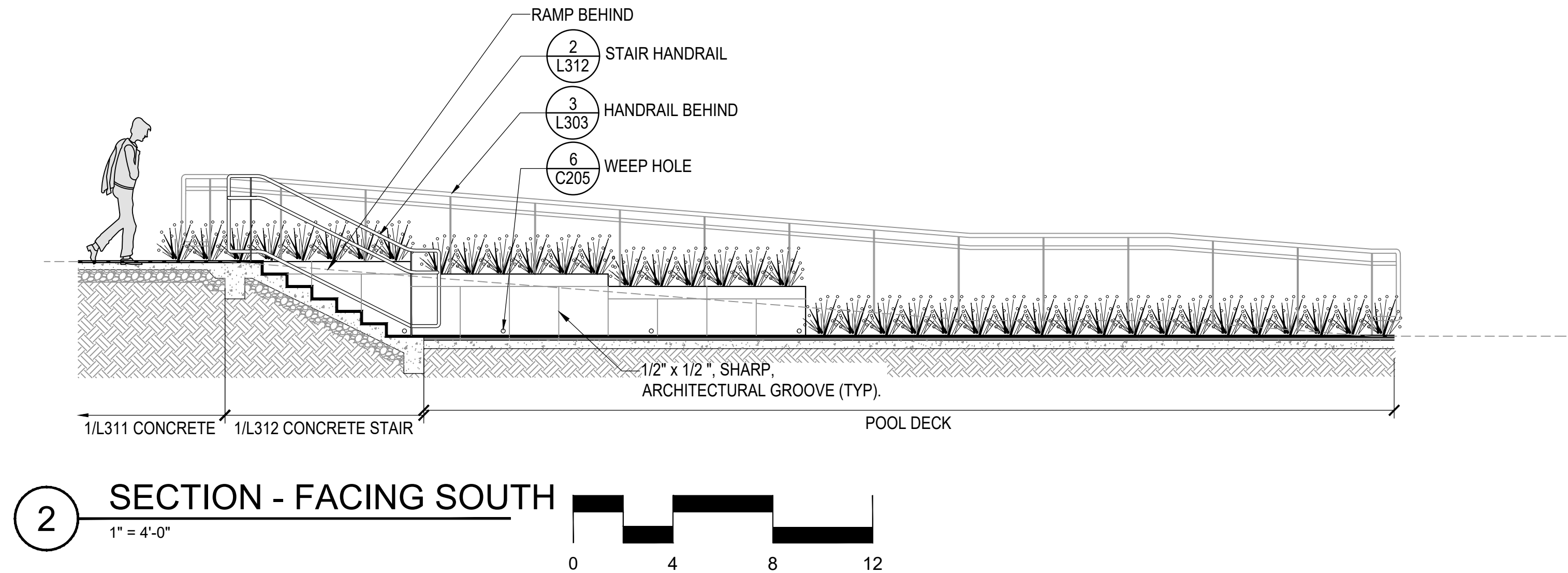
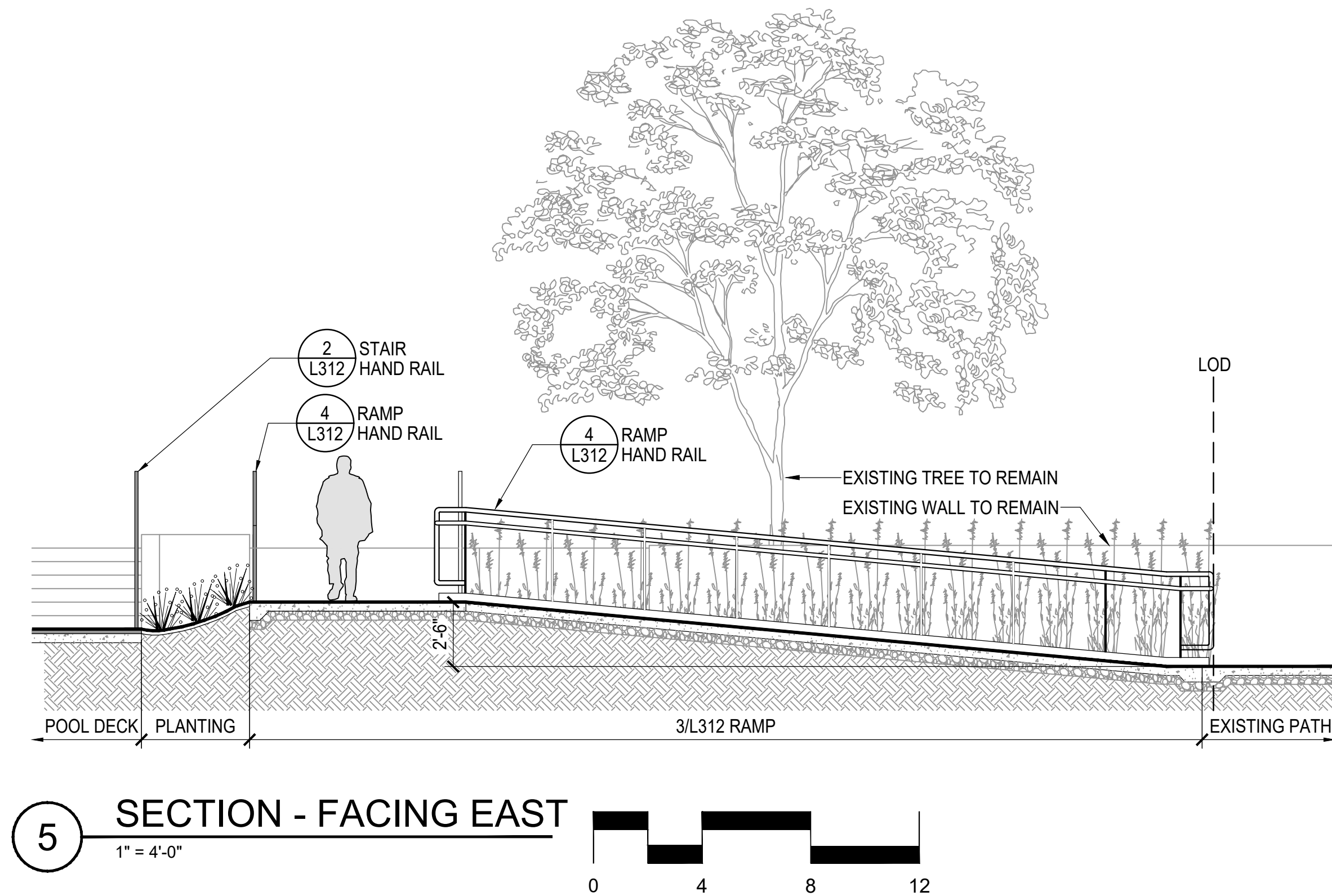
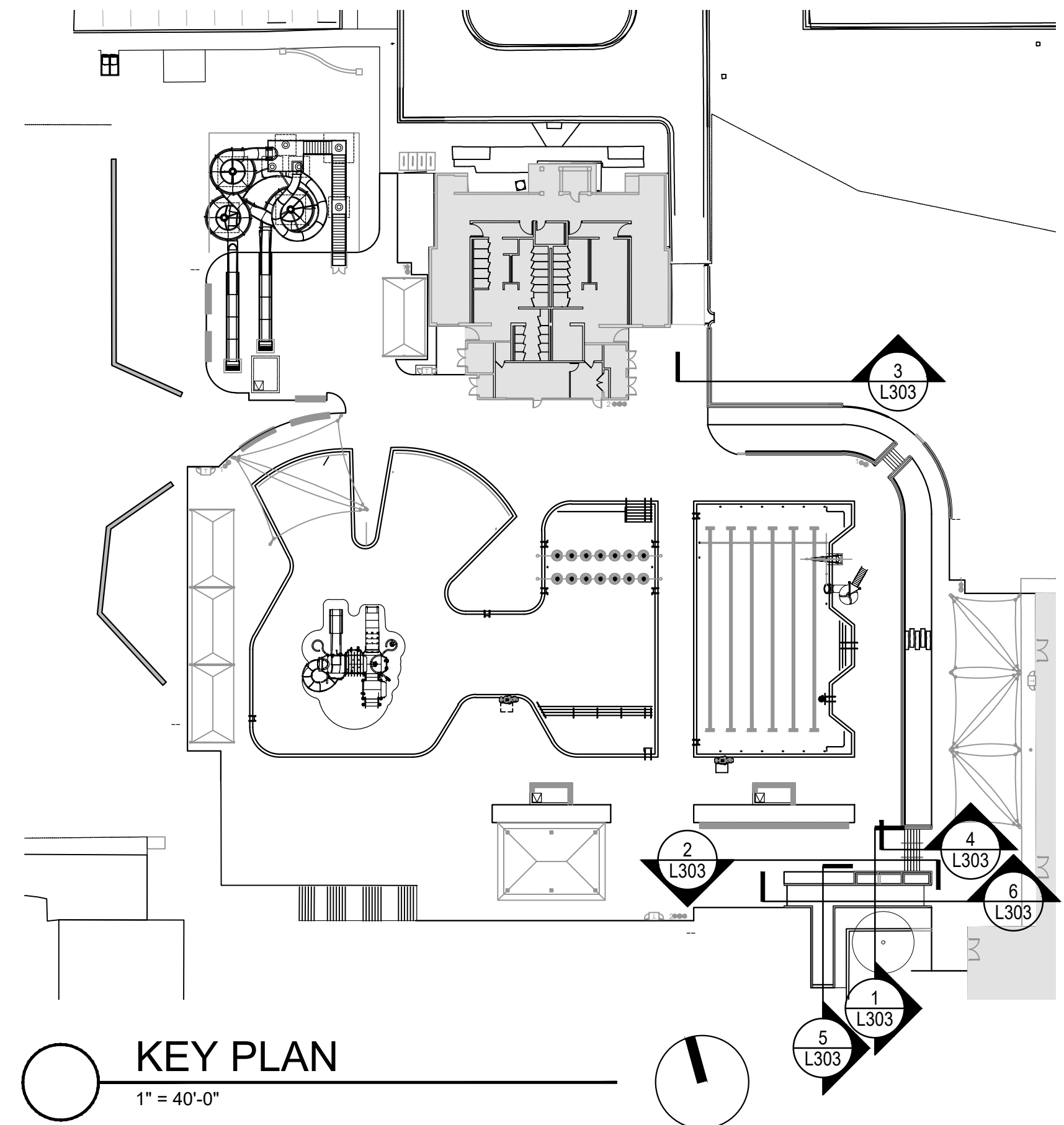
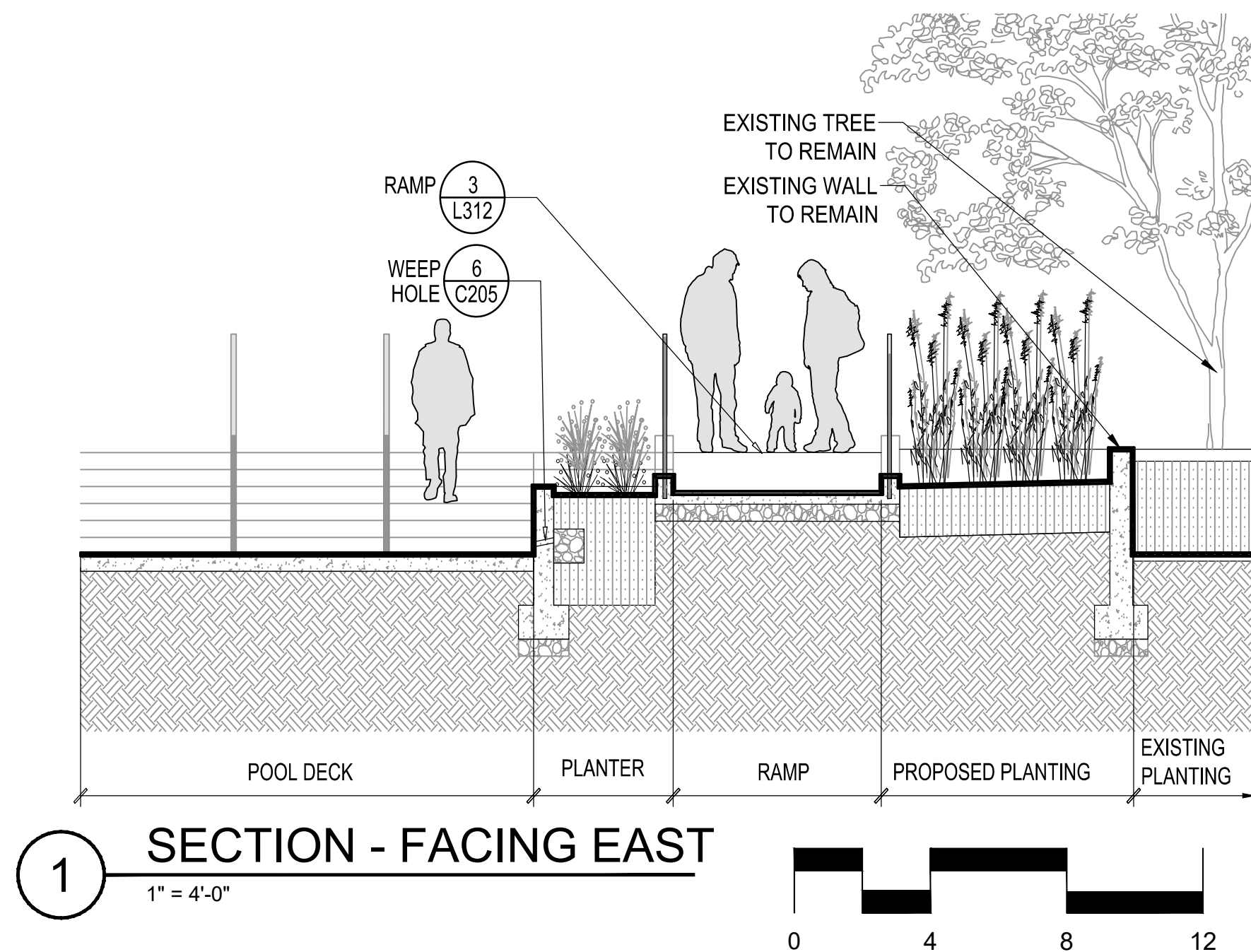
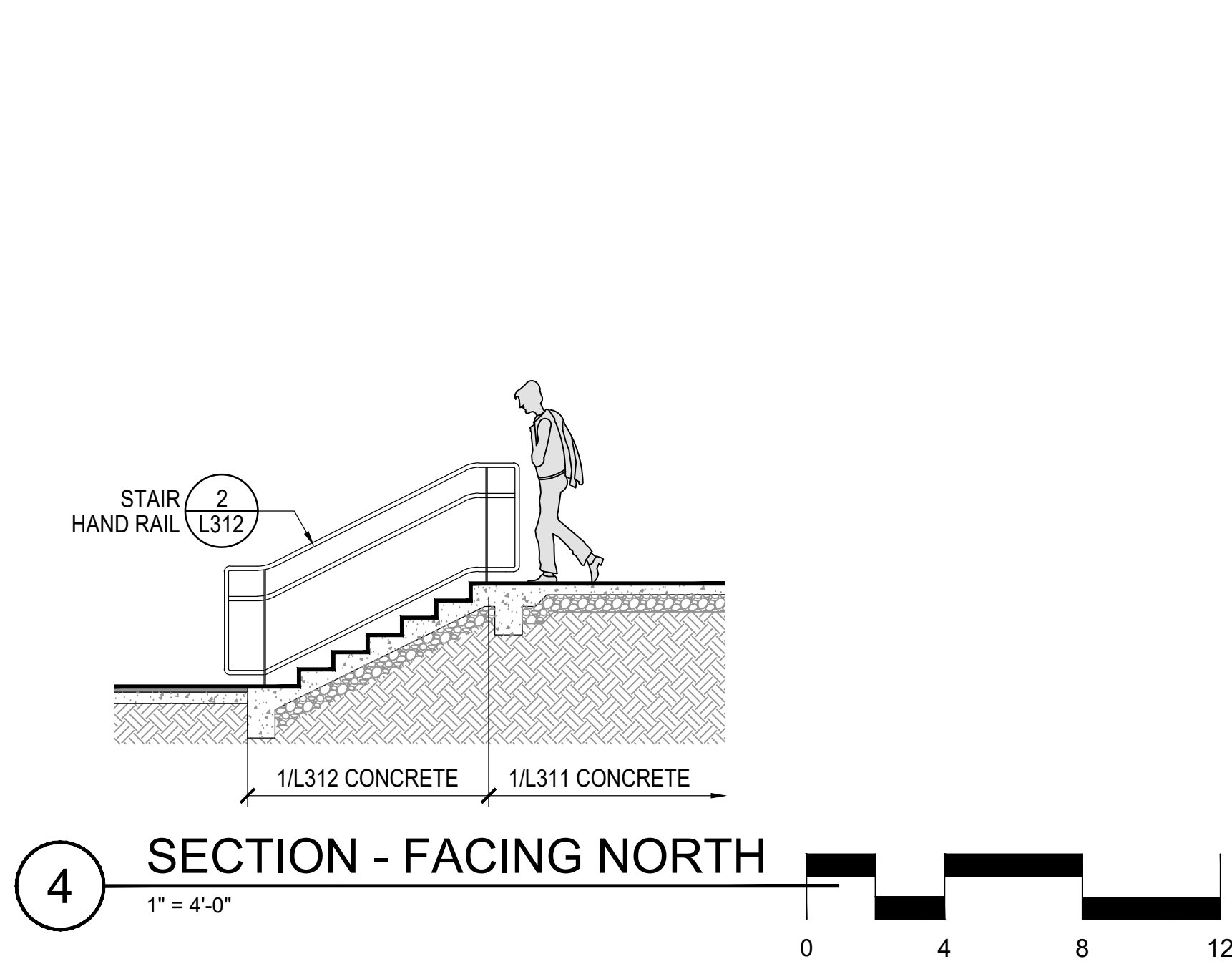
355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

SECTIONS  
AND ELEVATIONS

BID SET

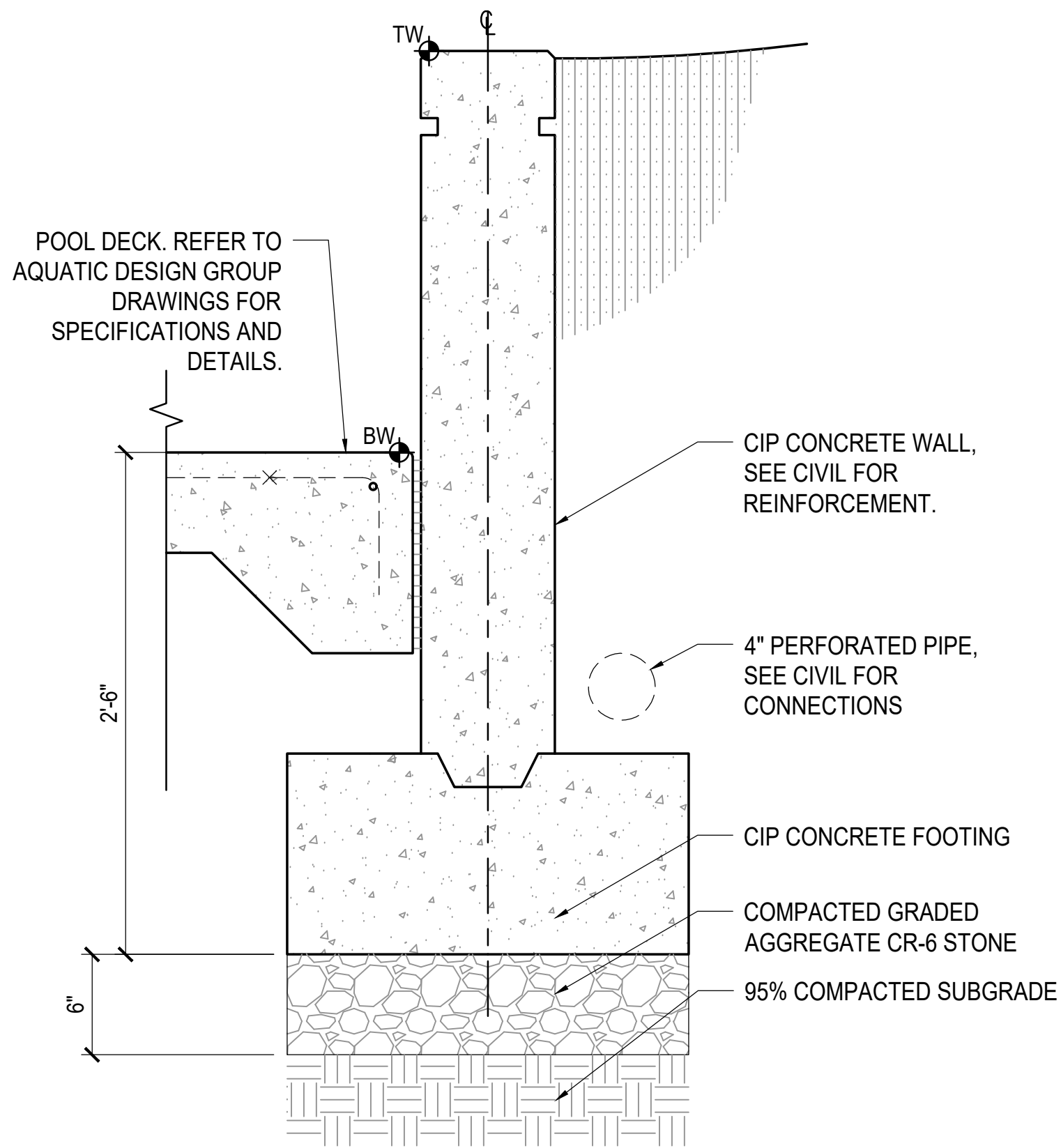
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No.	Description	Date
Revisions		
Project Number: 22.00036.00		
Scale: AS SHOWN		
Drawn By: AD, HW, BS		
Checked By: AD		
Date: 01/08/2024		
Sheet No. L303		



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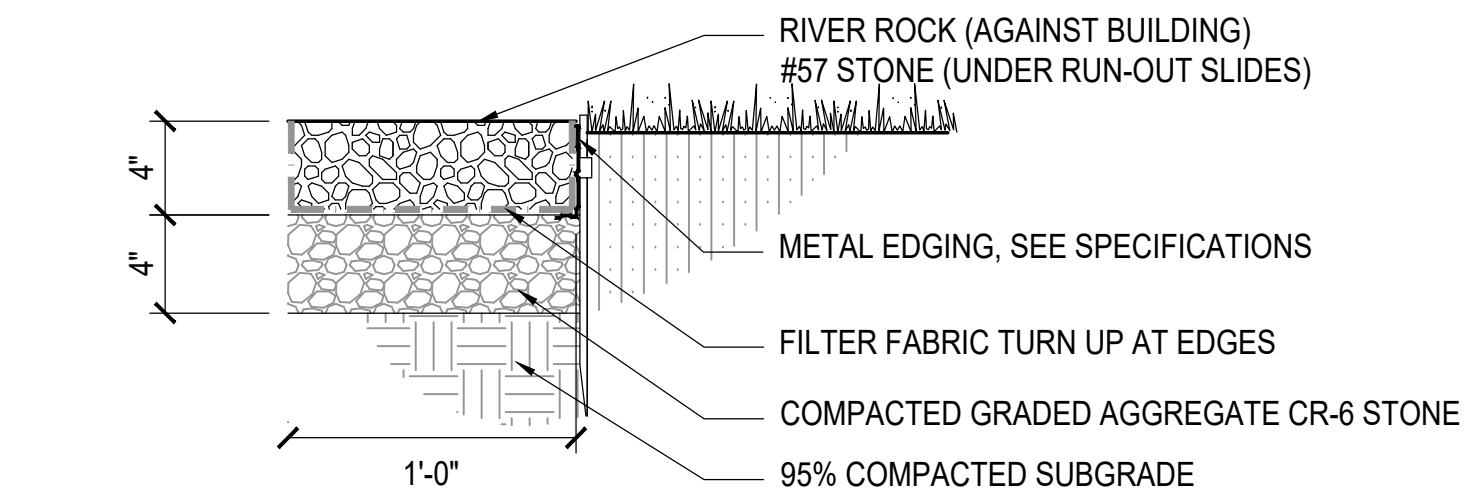




- NOTES:
1. ADJACENT CONDITIONS VARY. REFER TO PLANS.
  2. WATERPROOF WALL BELOW GRADE WHERE FG EXCEEDS THAT ON OPPOSITE SIDE.

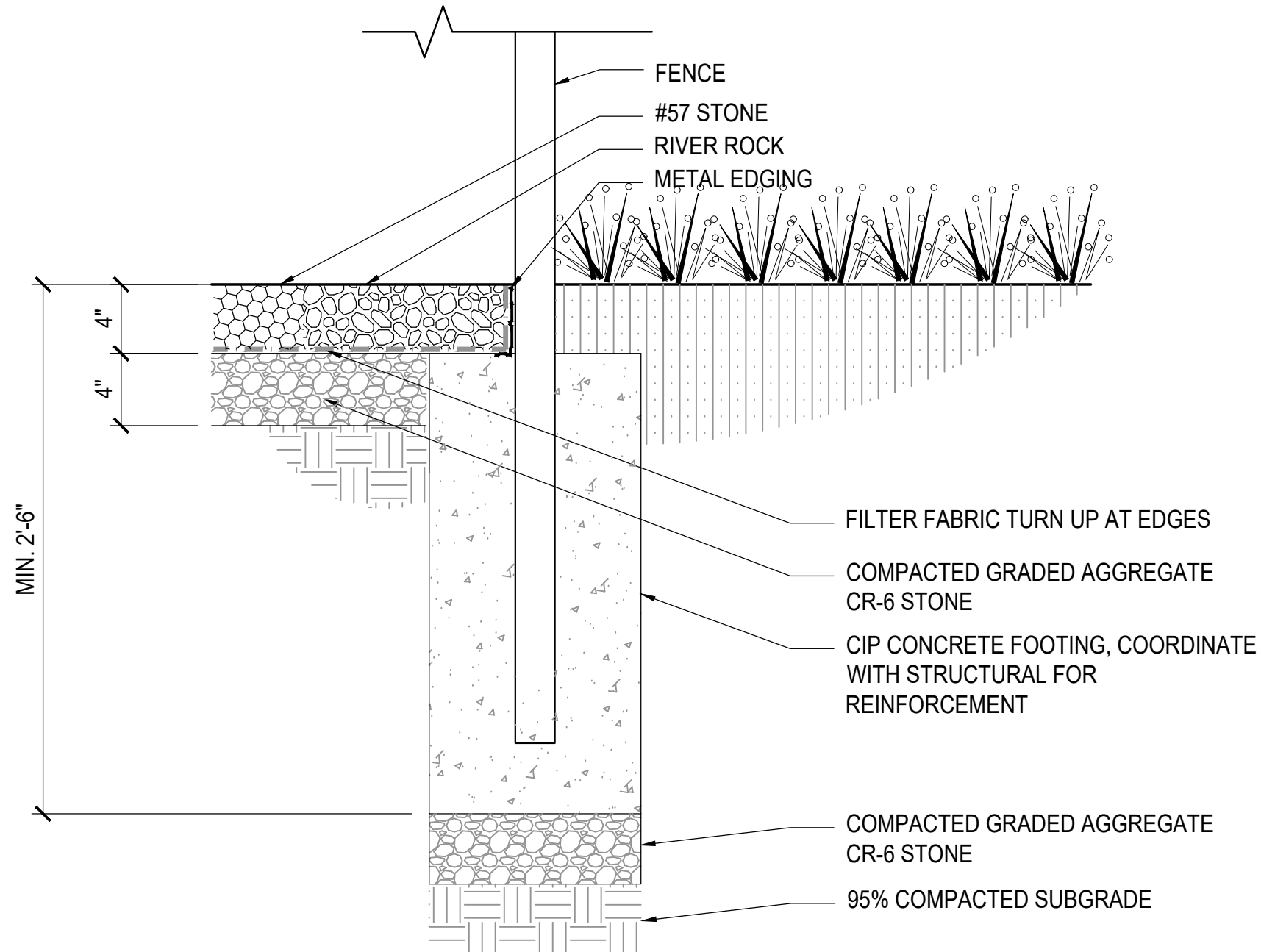
**7** EDGE CONDITION TYPE 5

1 1/2" = 1'-0"



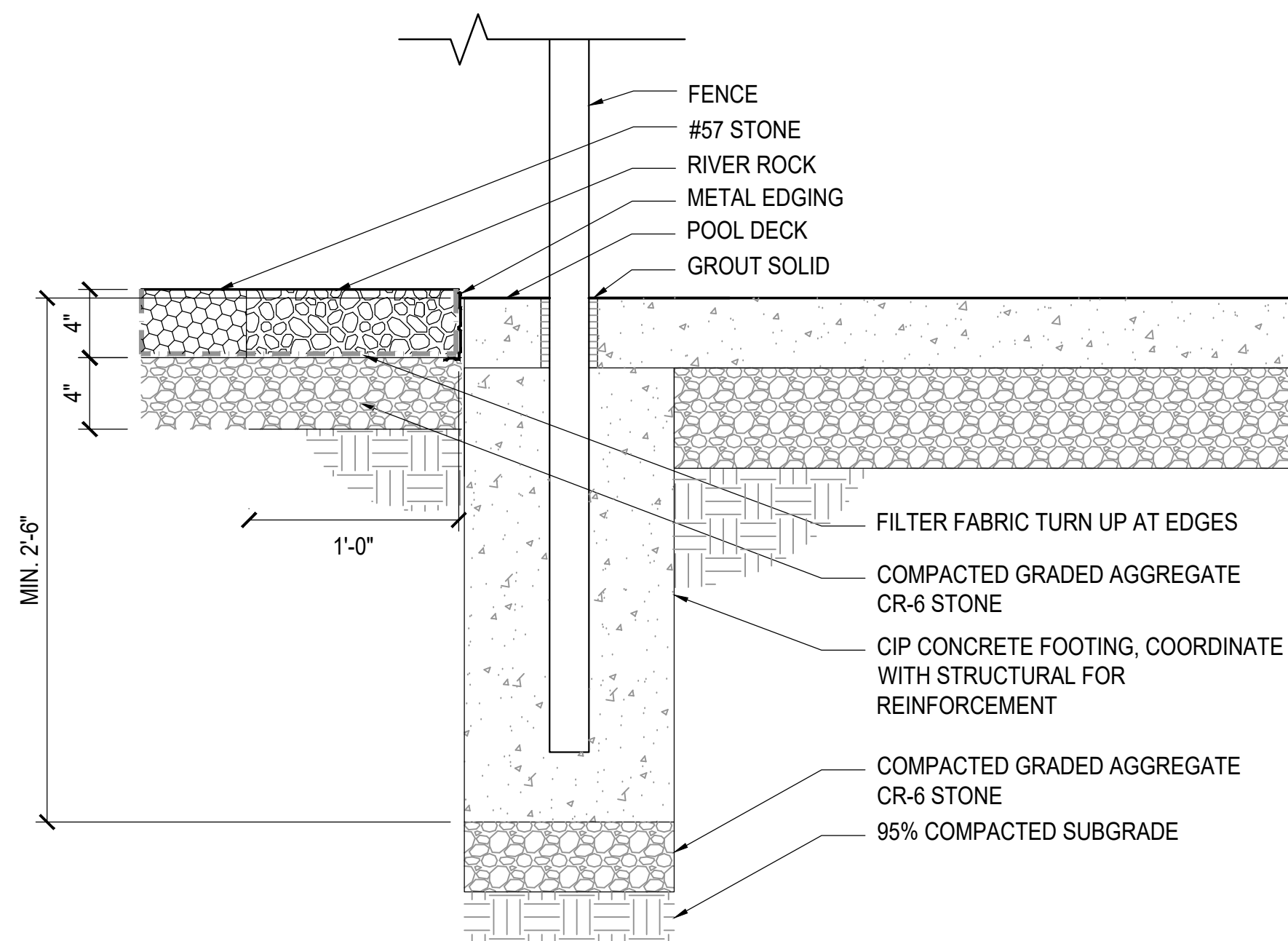
**4** EDGE CONDITION TYPE 1

1-1/2" = 1'-0"



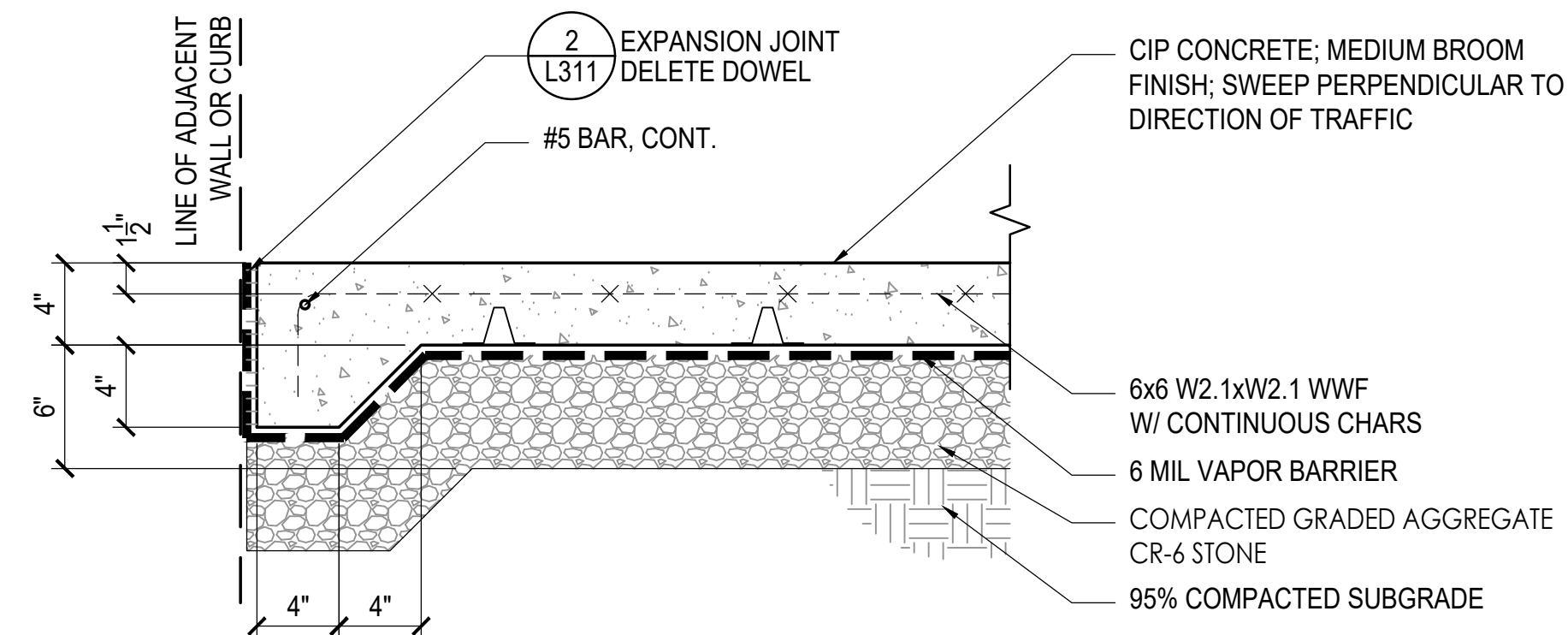
**5** EDGE CONDITION TYPE 2

1-1/2" = 1'-0"



**6** EDGE CONDITION TYPE 3

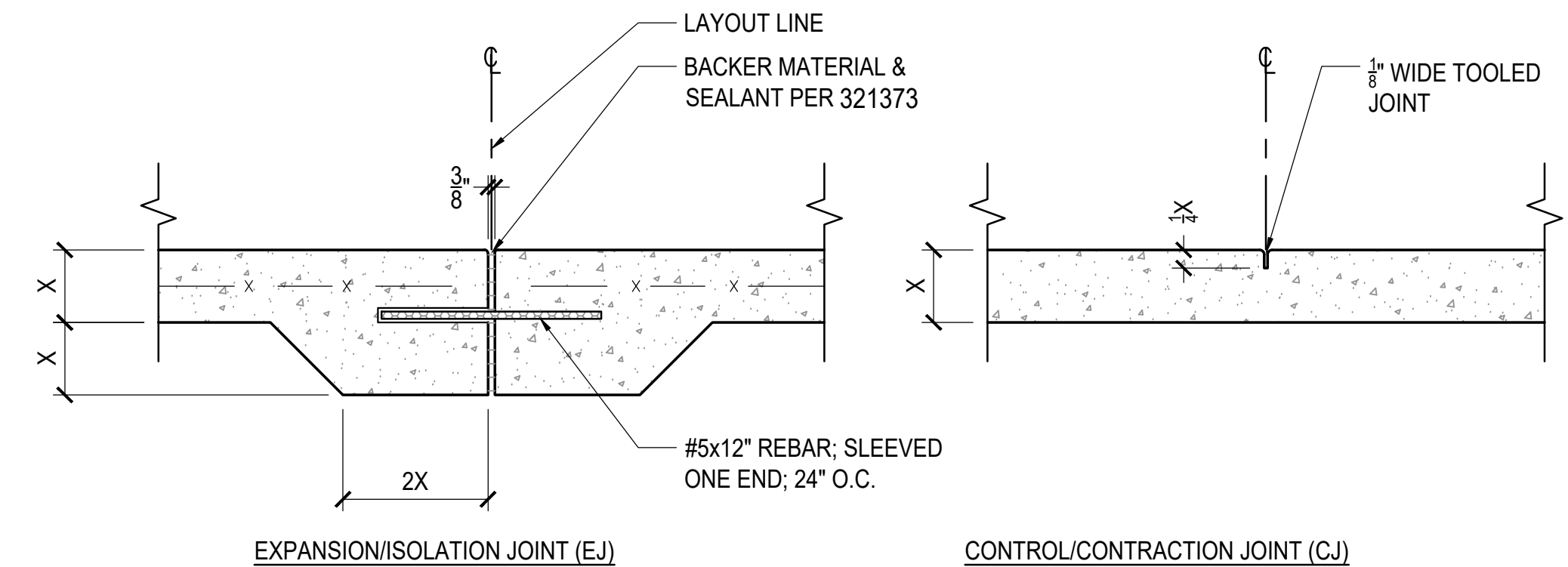
1-1/2" = 1'-0"



- NOTES:
1. REFER TO 2/L311 FOR JOINT TYPES.

**1** CONCRETE PAVING

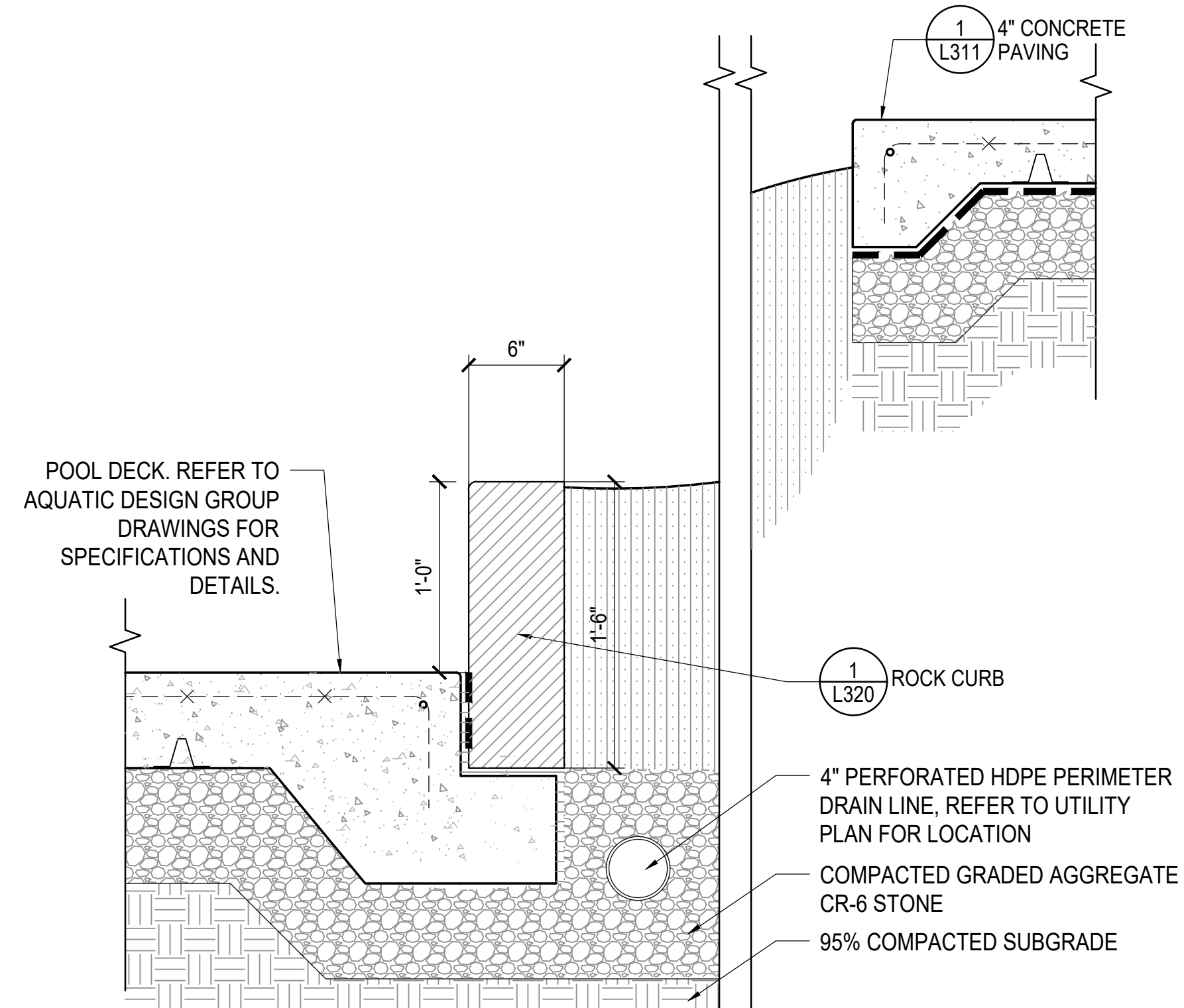
1 1/2" = 1'-0"



- NOTES:
1. INSTALL CONTROL JOINTS AT EQUAL INTERVALS OF 5'-0" EACH WAY UNLESS OTHERWISE INDICATED.
  2. INSTALL EXPANSION JOINTS WHERE SLAB MEETS ANY ADJACENT STRUCTURE.
  3. TOOL ALL EXPOSED EDGES W/ 3/8" RADIUS.
  4. INSTALL SELF-LEVELING SEALANT AT EJ'S OR TOOL PER 321373 FLUSH W/ ADJACENT FG.
  5. SAWCUT JOINTS ARE PROHIBITED.

**2** CONCRETE JOINTING

1 1/2" = 1'-0"

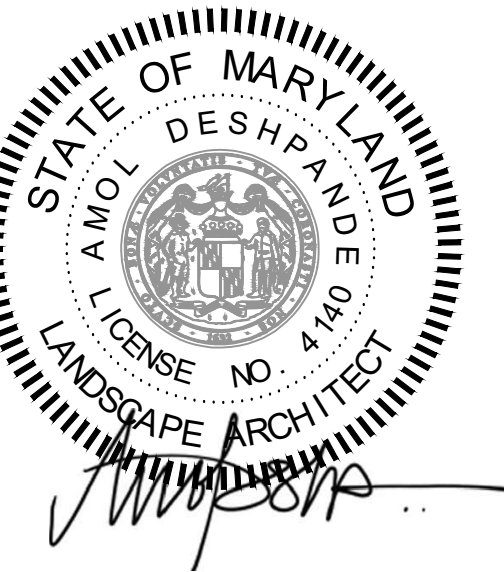


**3** EDGE CONDITION TYPE 4

1 1/2" = 1'-0"

**LSG LANDSCAPE ARCHITECTURE**

8240 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

**OUTDOOR  
RECREATION POOL  
RENOVATIONS**

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

**CONSTRUCTION  
DETAILS**

**BID SET**

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No.	Description	Date
Revisions		

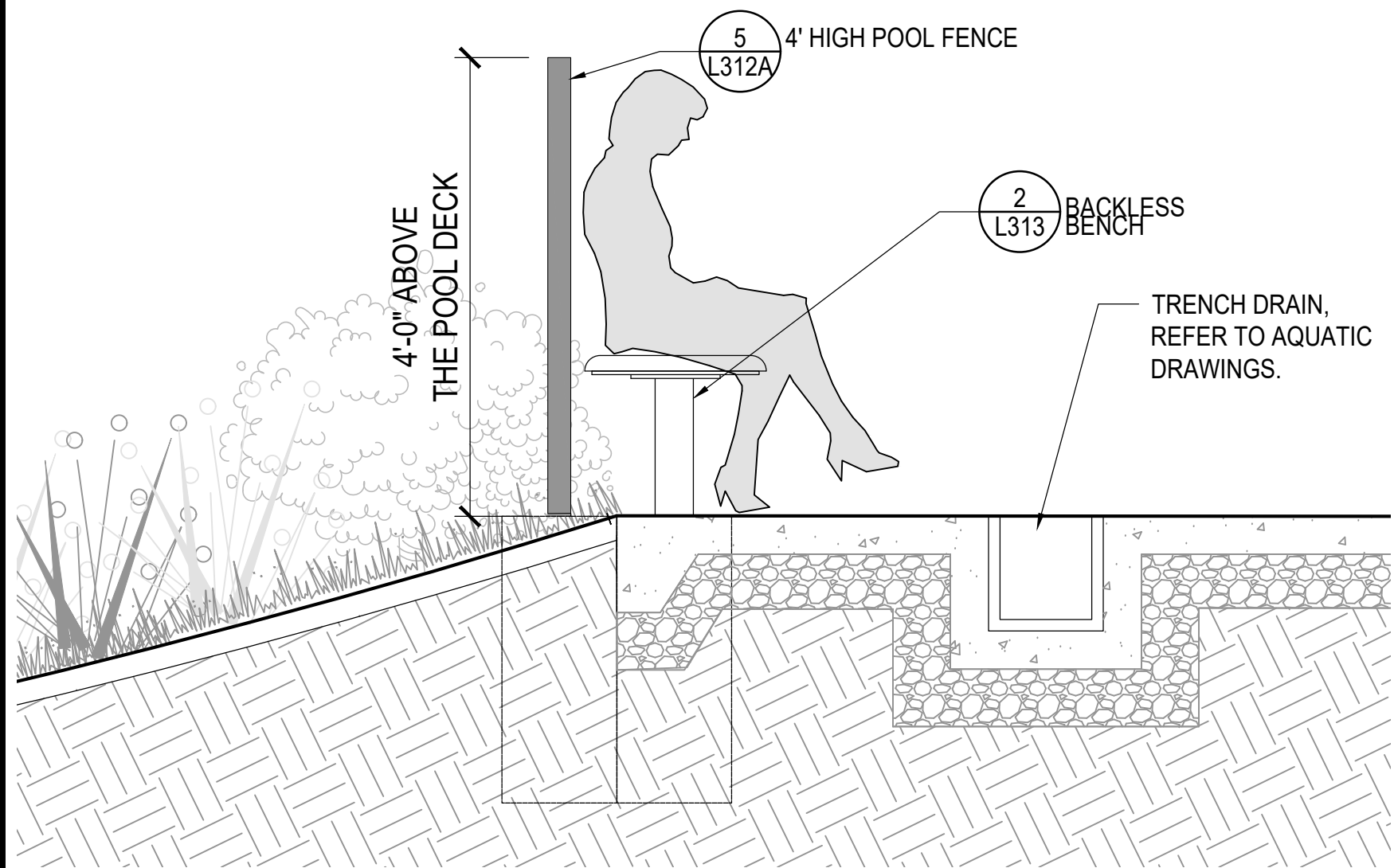
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Scale: AS SHOWN  
Drawn By: AD, HW, BS  
Checked By: AD  
Date: 01/08/2024

Sheet No. L311

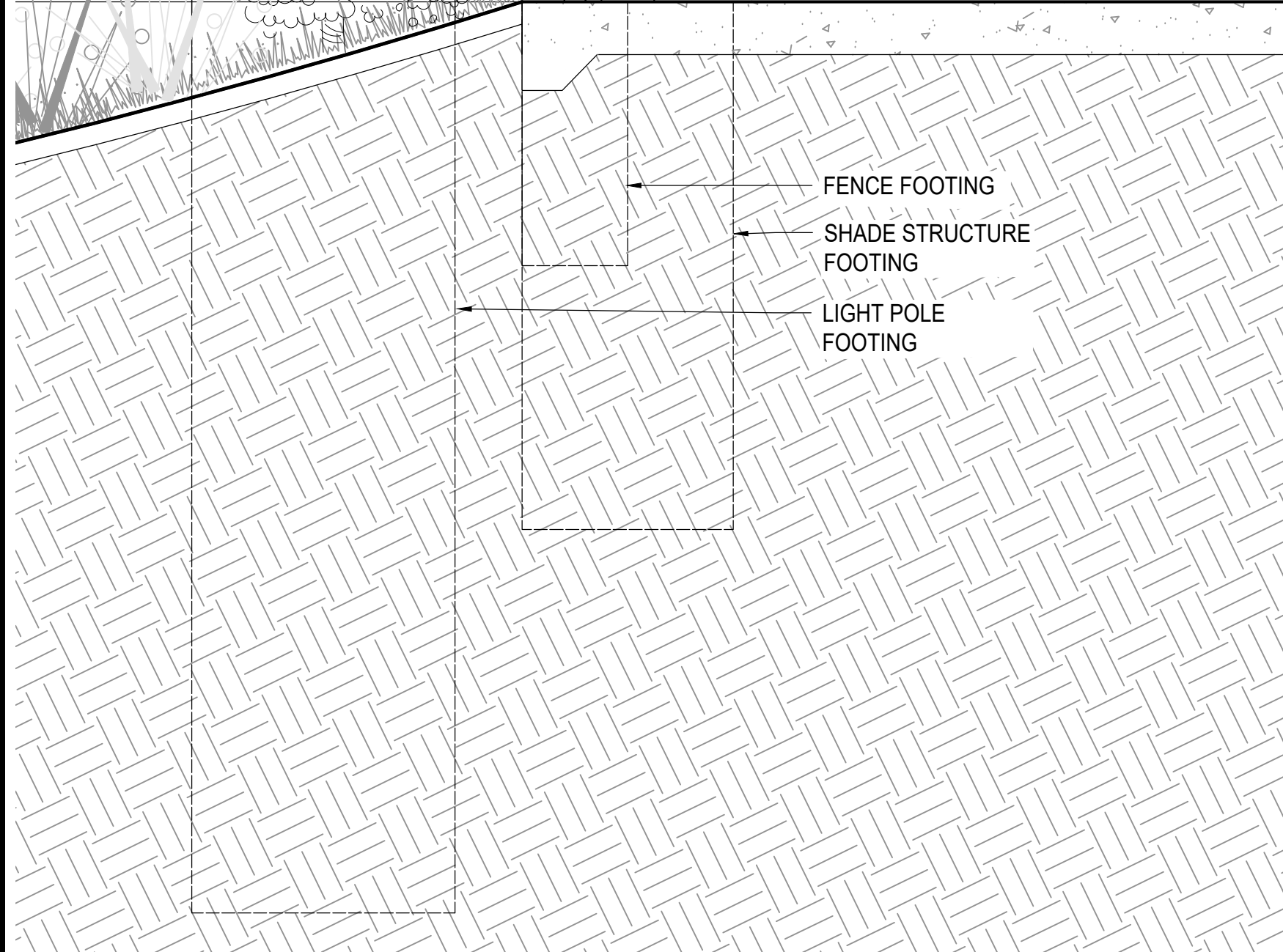
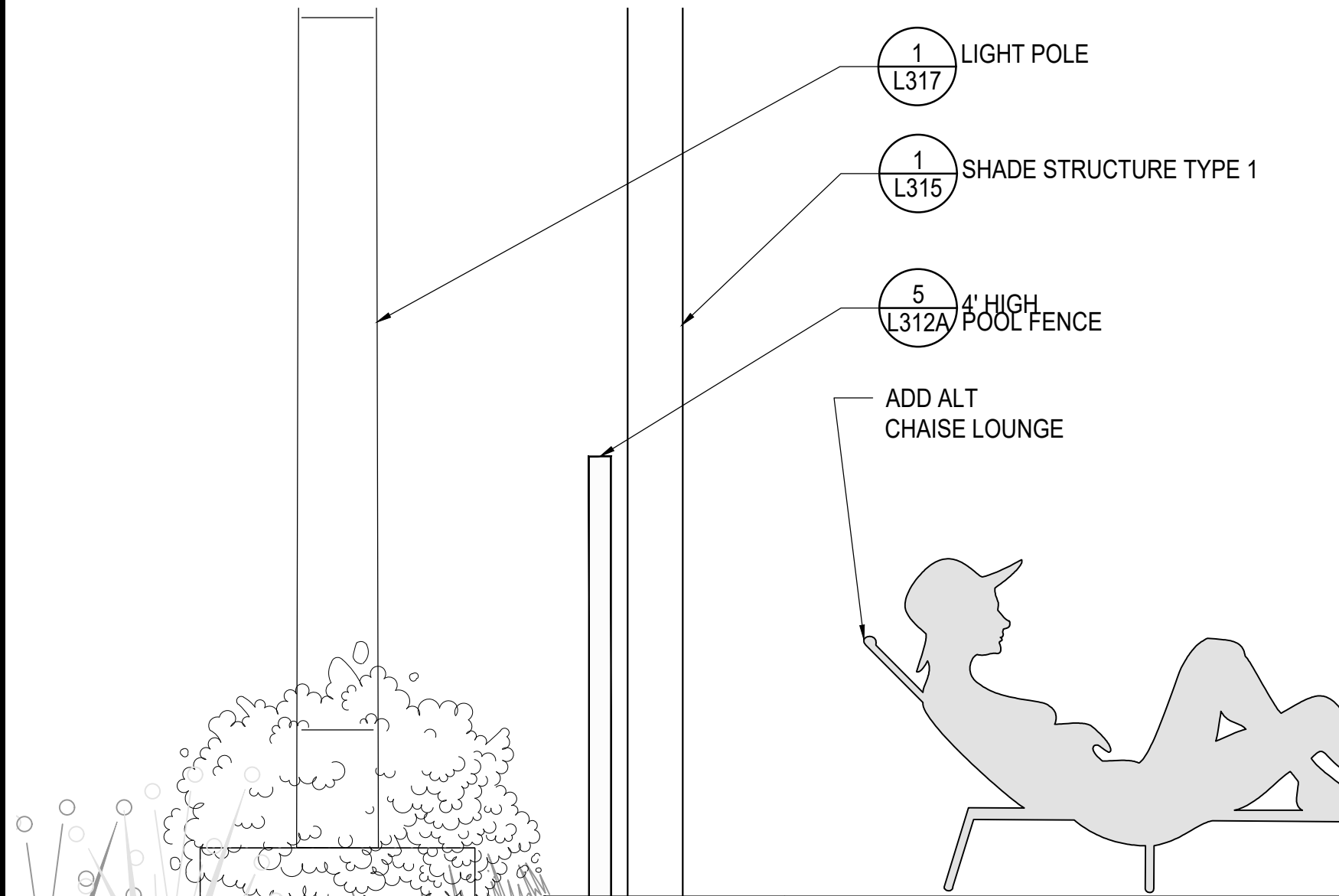
**NFC**

**BID SET 02/23/2024**

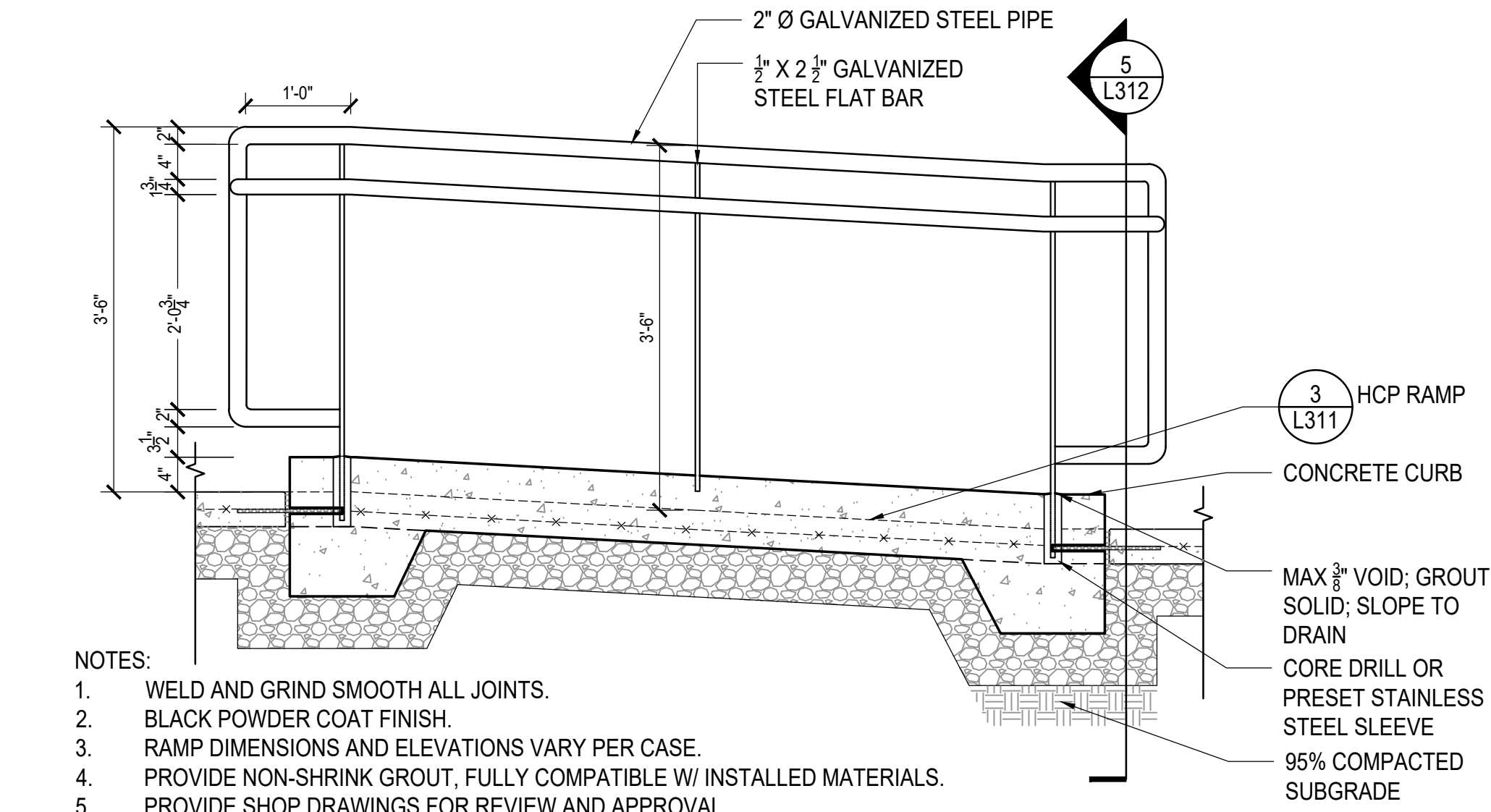




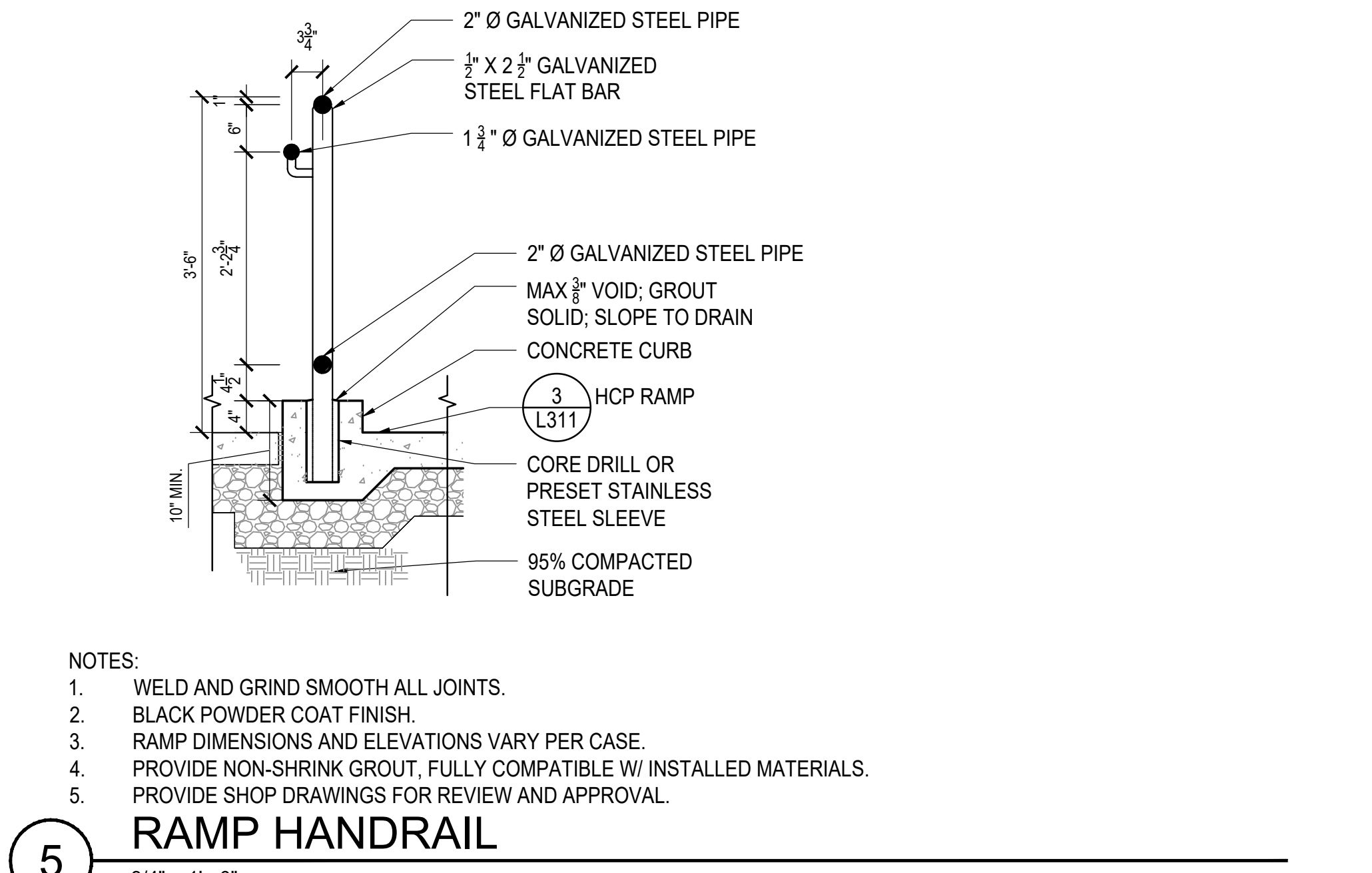
5 **EDGE CONDITION TYPE 6**  
3/4" = 1' - 0"



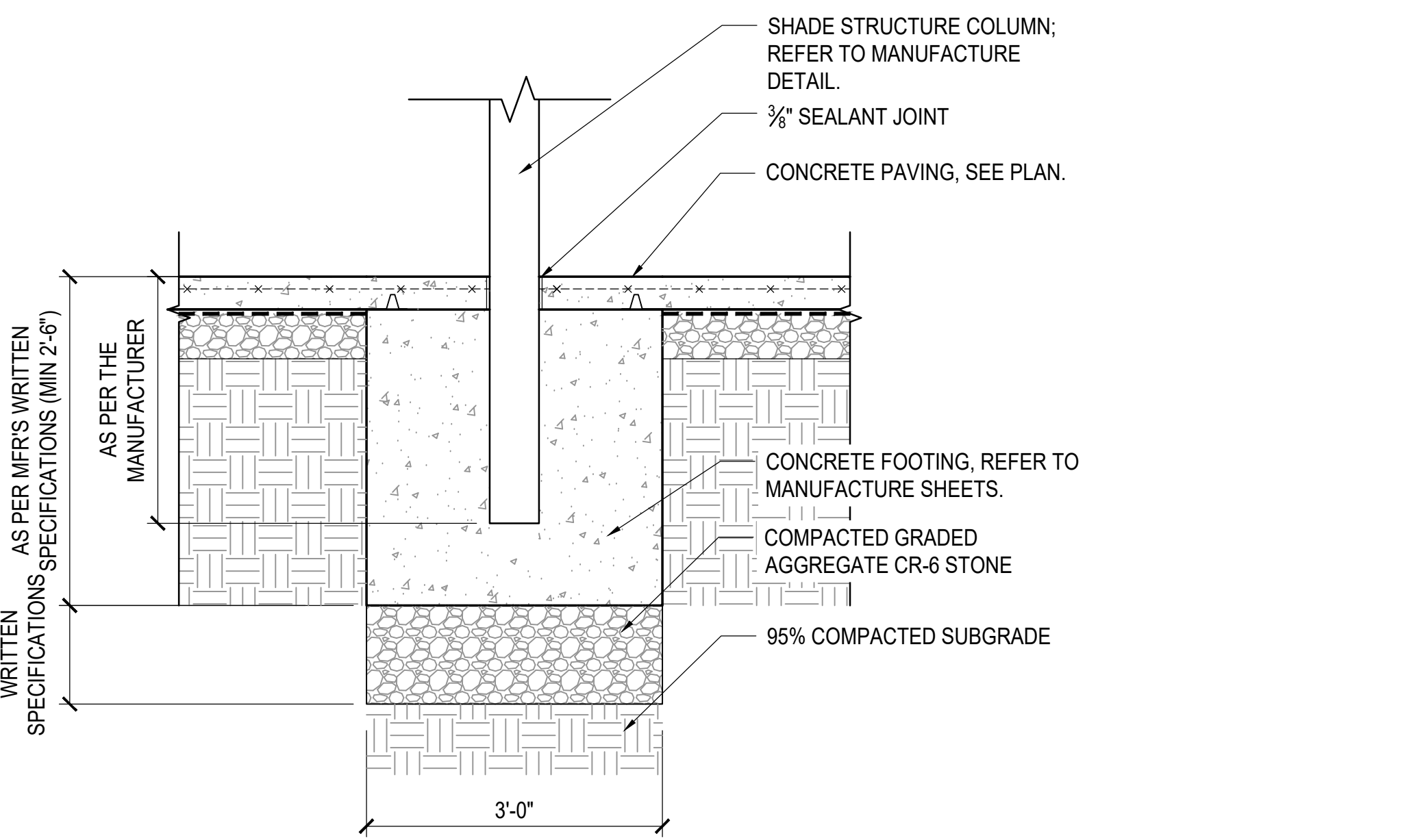
5 **EDGE CONDITION TYPE 7**  
3/4" = 1' - 0"



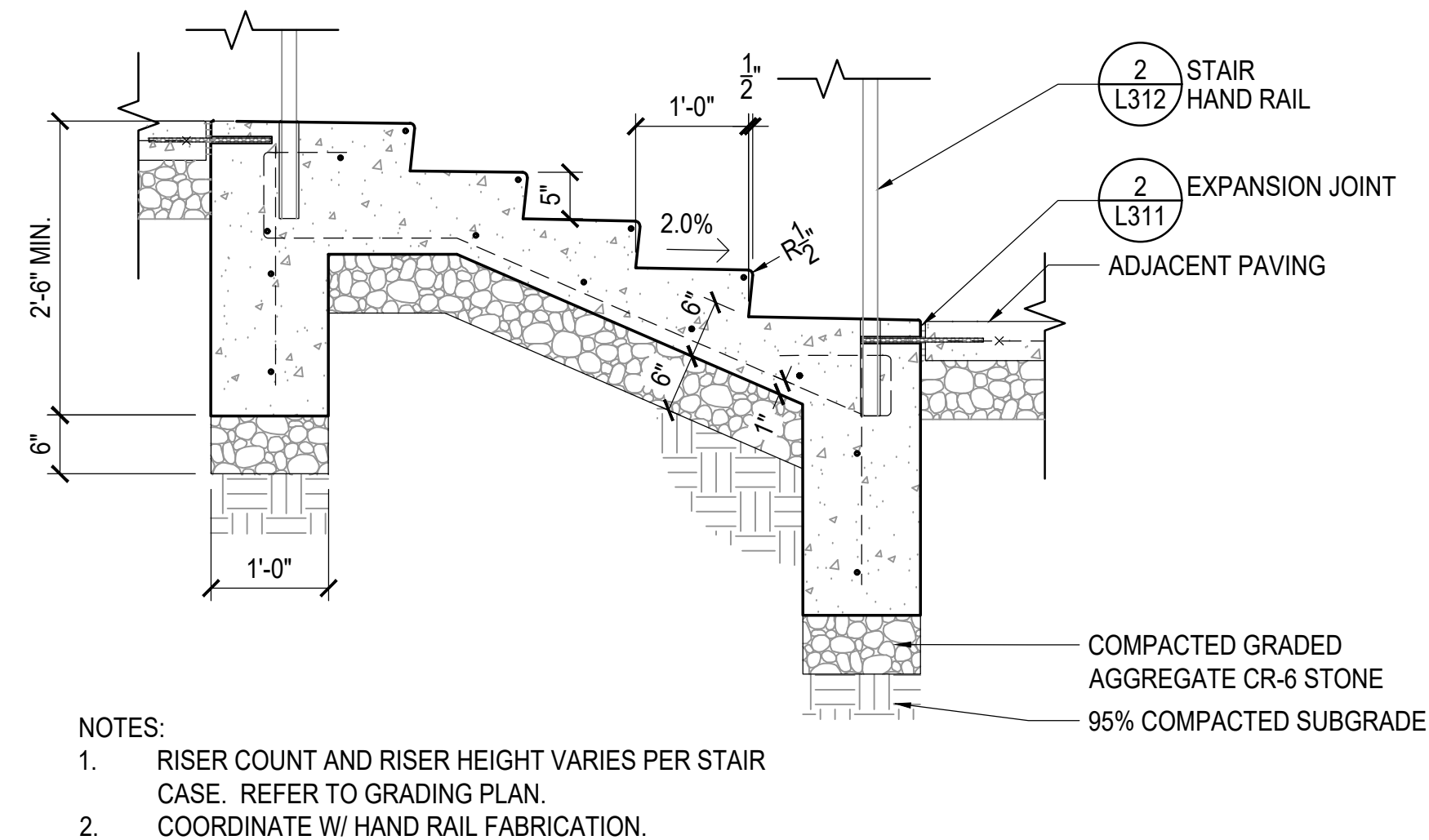
4 **RAMP HANDRAIL**  
3/4" = 1' - 0"



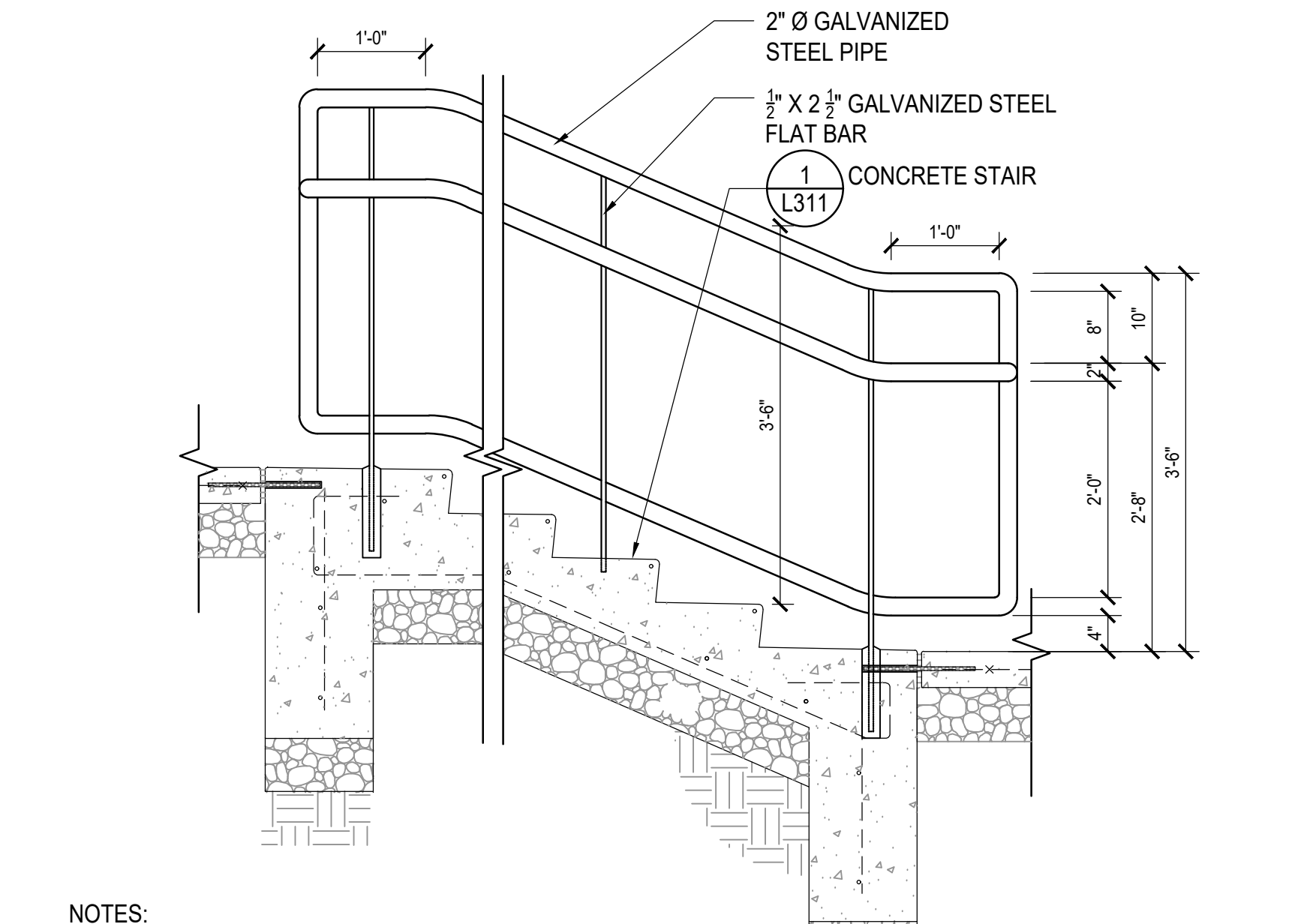
5 **RAMP HANDRAIL**  
3/4" = 1' - 0"



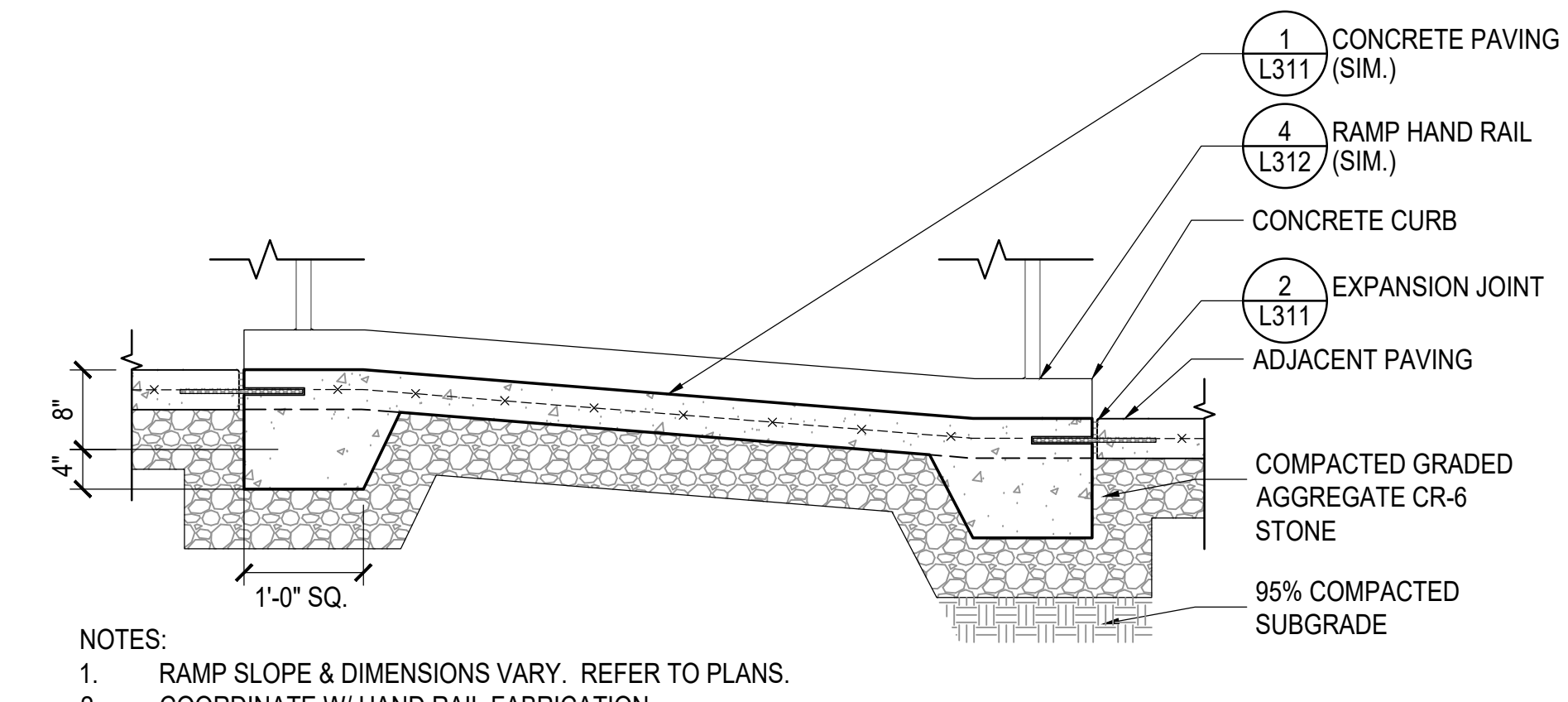
6 **SHADE STRUCTURE FOOTING DETAIL**  
3/4" = 1' - 0"



1 **CONCRETE STAIR**  
3/4" = 1'-0"



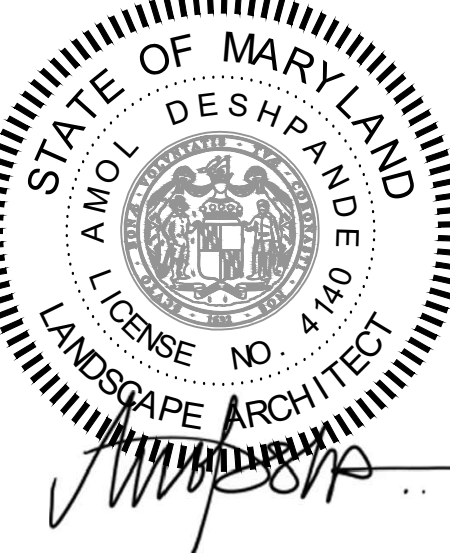
2 **STAIR HAND RAIL**  
3/4" = 1'-0"



3 **HCP RAMP**  
3/4" = 1'-0"

**LSG LANDSCAPE  
ARCHITECTURE**

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

**OUTDOOR  
RECREATION POOL  
RENOVATIONS**

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

**CONSTRUCTION  
DETAILS**

**BID SET**

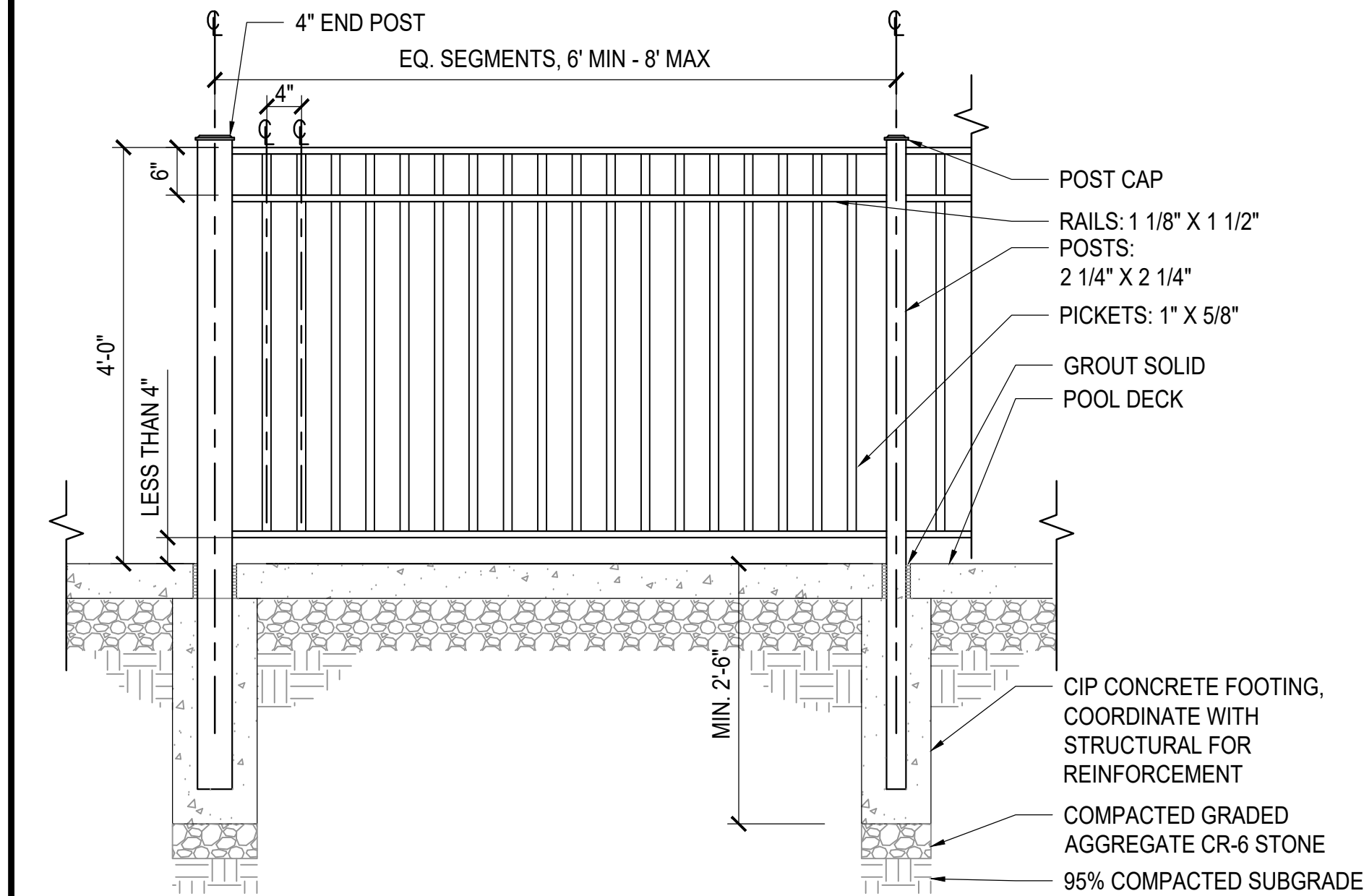
1	65% CONSTRUCTION DOCUMENT 06/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	BUILDING PERMIT SET 12/08/2023
5	HD COMMENT RESPONSE 01/08/2024
6	BID SET 02/01/2024
7	BUILDING PERMIT SET 02/06/2024
8	BUILDING PERMIT SET 02/20/2024
9	BID SET 02/23/2024

No.	Description	Date
Revisions		
Project Number: 22.00036.00		
Scale: AS SHOWN		
Drawn By: AD, HW, BS		
Checked By: AD		
Date: 01/08/2024		

Sheet No. **L312**

**BID SET 02/23/2024**

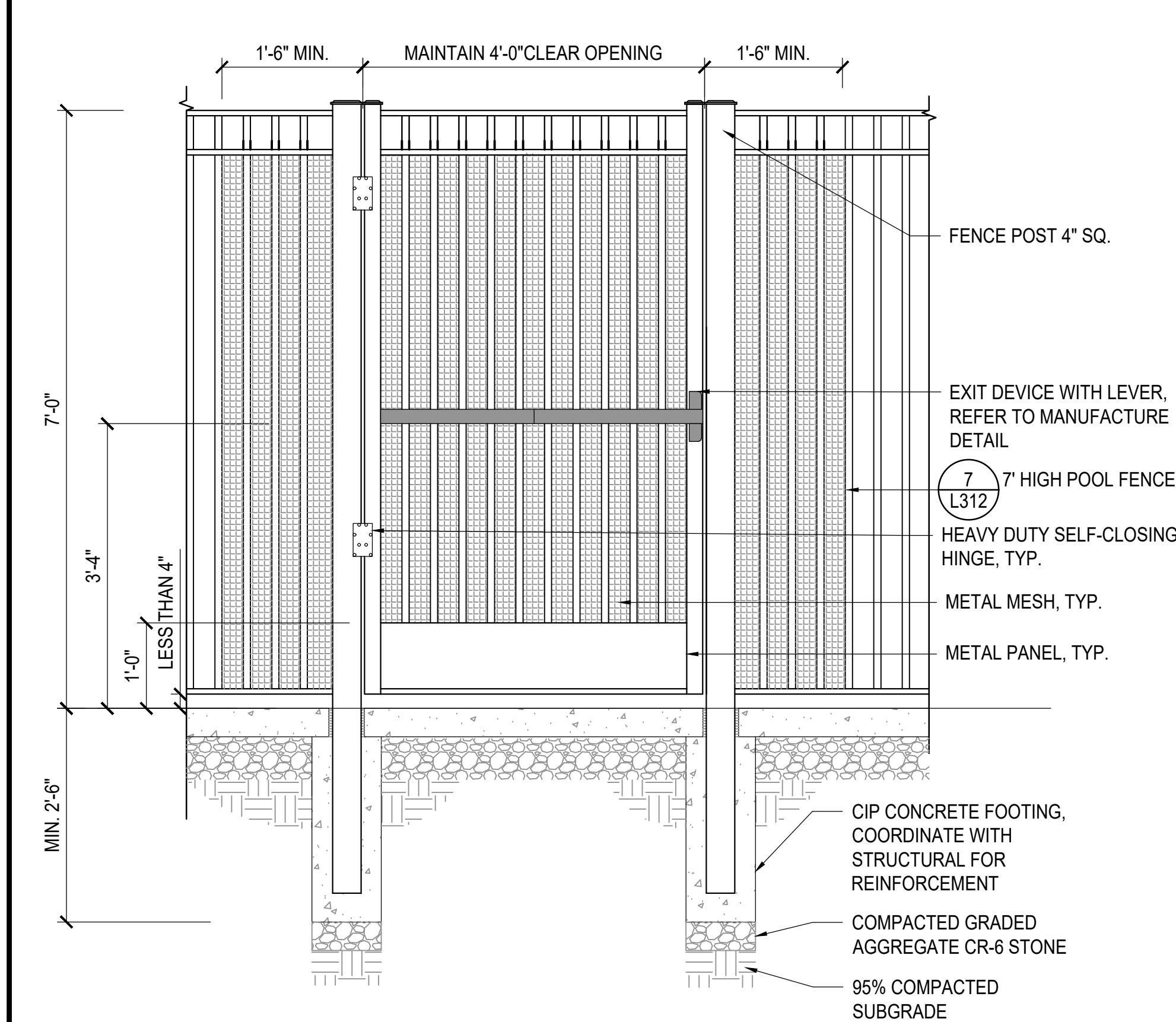




- NOTES:
1. DRAWING REPRESENTS DESIGN INTENT ONLY, PROVIDE SHOP DRAWINGS FOR REVIEW & APPROVAL.
  2. FENCE SHALL COMPLY WITH IRC APPENDIX G.
  3. BASIS OF DESIGN MONTAGE BY AMERISTAR.
  4. FINISH: POWDERCOAT, COLOR: BLACK

#### 4' HIGH POOL FENCE

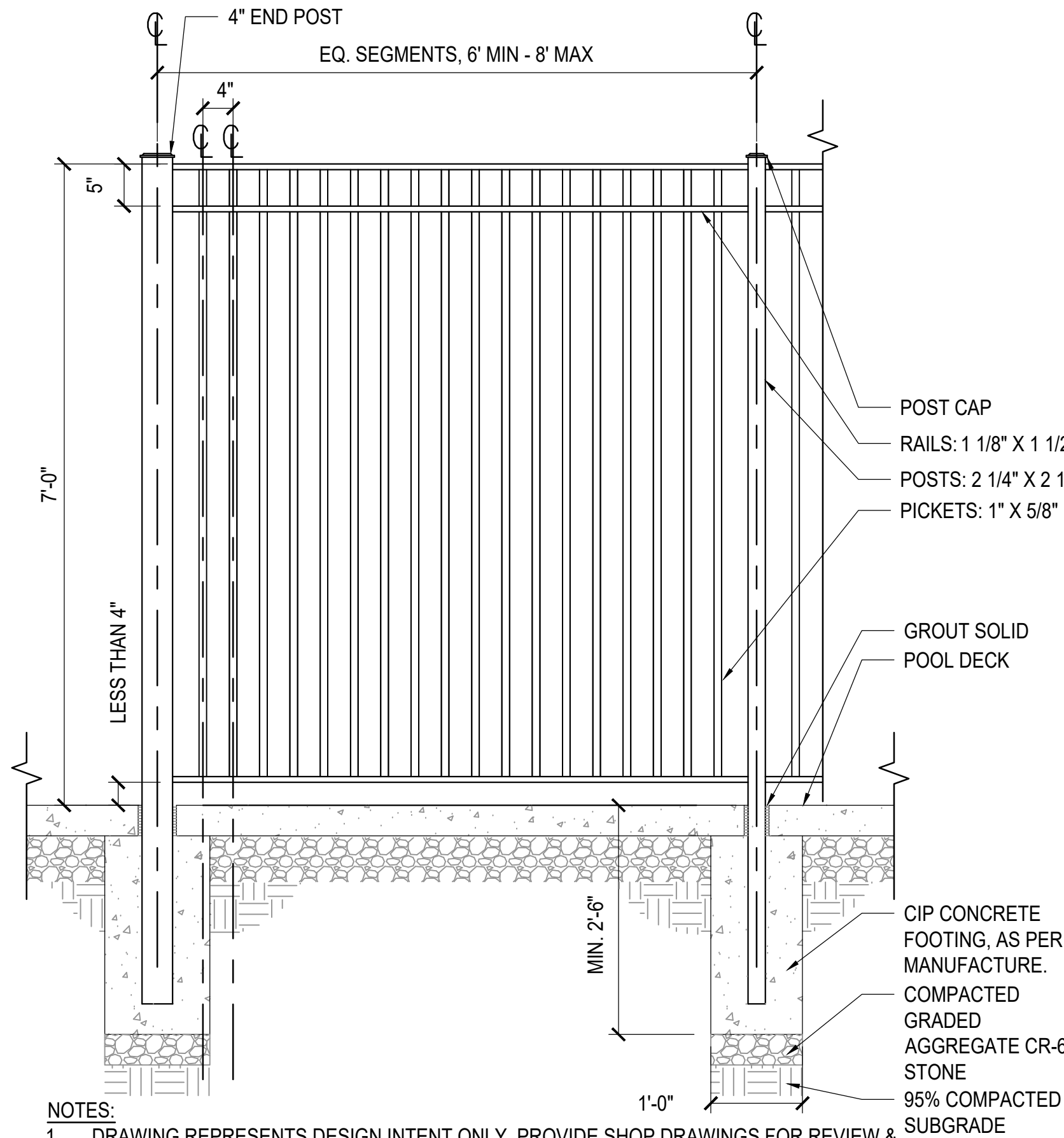
3/4" = 1'-0"



- NOTES:
1. DRAWING REPRESENTS DESIGN INTENT ONLY, PROVIDE SHOP DRAWINGS FOR REVIEW & APPROVAL.
  2. FENCE SHALL COMPLY WITH IRC APPENDIX G.
  3. BASIS OF DESIGN MONTAGE BY AMERISTAR.
  4. FINISH: POWDERCOAT, COLOR: BLACK

#### 7' HIGH EGRESS GATE

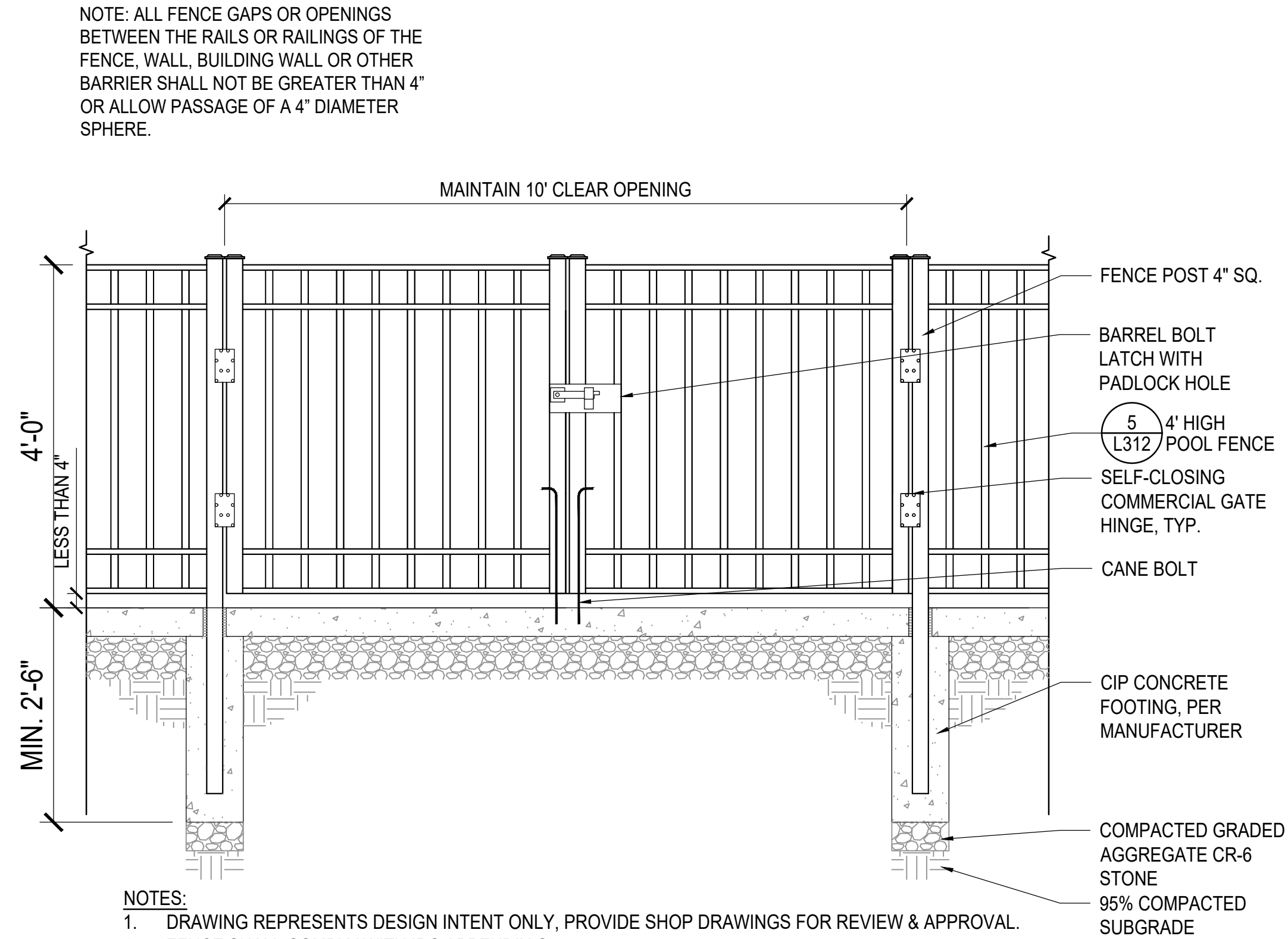
3/4" = 1'-0"



- NOTES:
1. DRAWING REPRESENTS DESIGN INTENT ONLY, PROVIDE SHOP DRAWINGS FOR REVIEW & APPROVAL.
  2. FENCE SHALL COMPLY WITH IRC APPENDIX G.
  3. BASIS OF DESIGN MONTAGE BY AMERISTAR.
  4. FINISH: POWDERCOAT, COLOR: BLACK

#### 7' HIGH PERIMETER FENCE

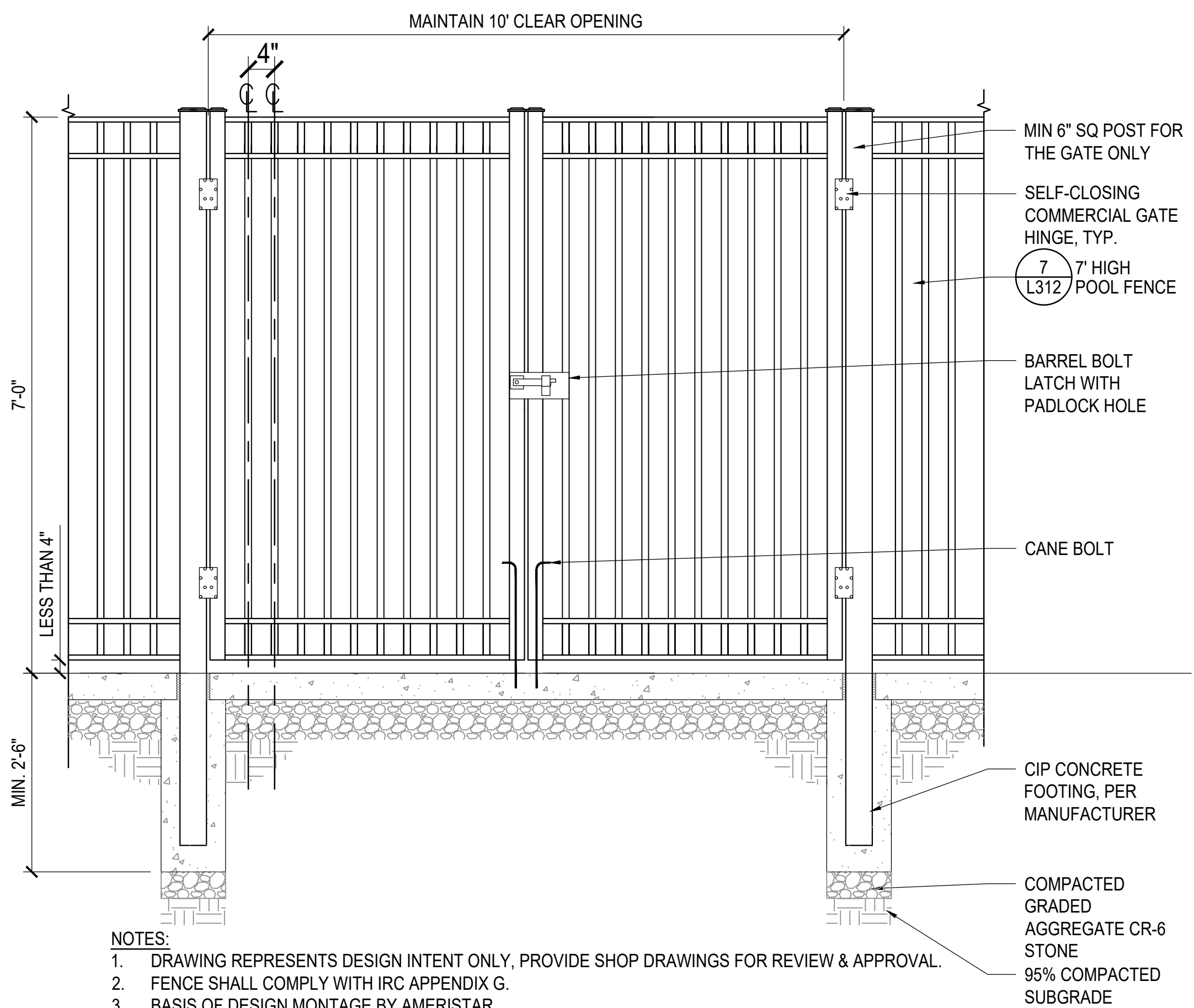
3/4" = 1'-0"



- NOTES:
1. DRAWING REPRESENTS DESIGN INTENT ONLY, PROVIDE SHOP DRAWINGS FOR REVIEW & APPROVAL.
  2. FENCE SHALL COMPLY WITH IRC APPENDIX G.
  3. BASIS OF DESIGN MONTAGE BY AMERISTAR.
  4. FINISH: POWDERCOAT, COLOR: BLACK

#### 4' HIGH MAINTENANCE ACCESS GATE

3/4" = 1'-0"



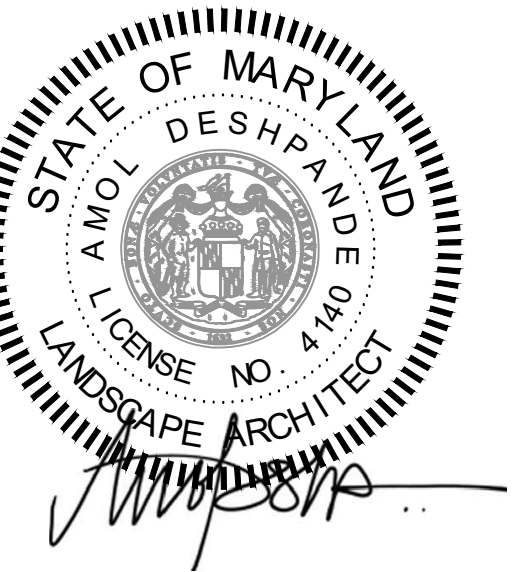
- NOTES:
1. DRAWING REPRESENTS DESIGN INTENT ONLY, PROVIDE SHOP DRAWINGS FOR REVIEW & APPROVAL.
  2. FENCE SHALL COMPLY WITH IRC APPENDIX G.
  3. BASIS OF DESIGN MONTAGE BY AMERISTAR.
  4. FINISH: POWDERCOAT, COLOR: BLACK

#### 7' HIGH MAINTENANCE ACCESS GATE

3/4" = 1'-0"

### LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

### OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

### CONSTRUCTION DETAILS

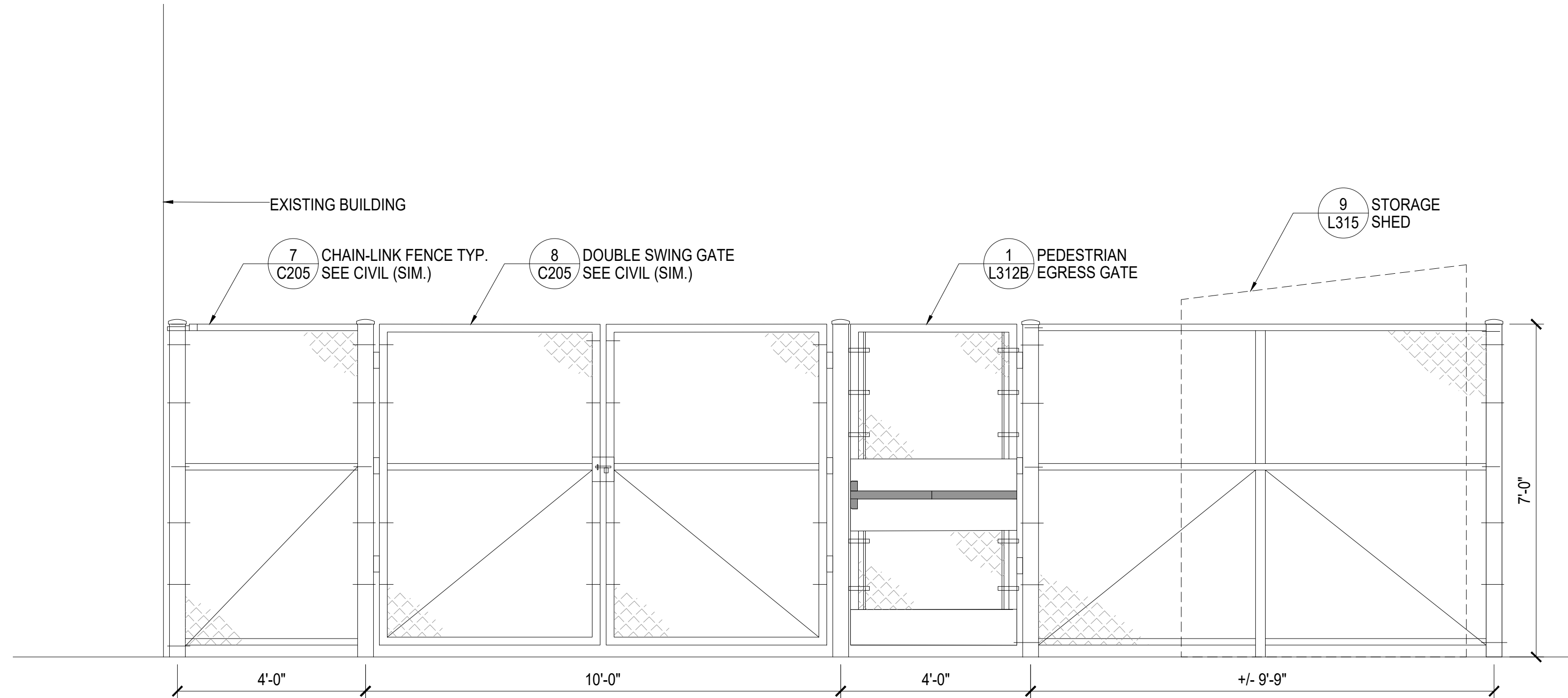
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8	BUILDING PERMIT SET 02/20/2024
9	BID SET 02/23/2024

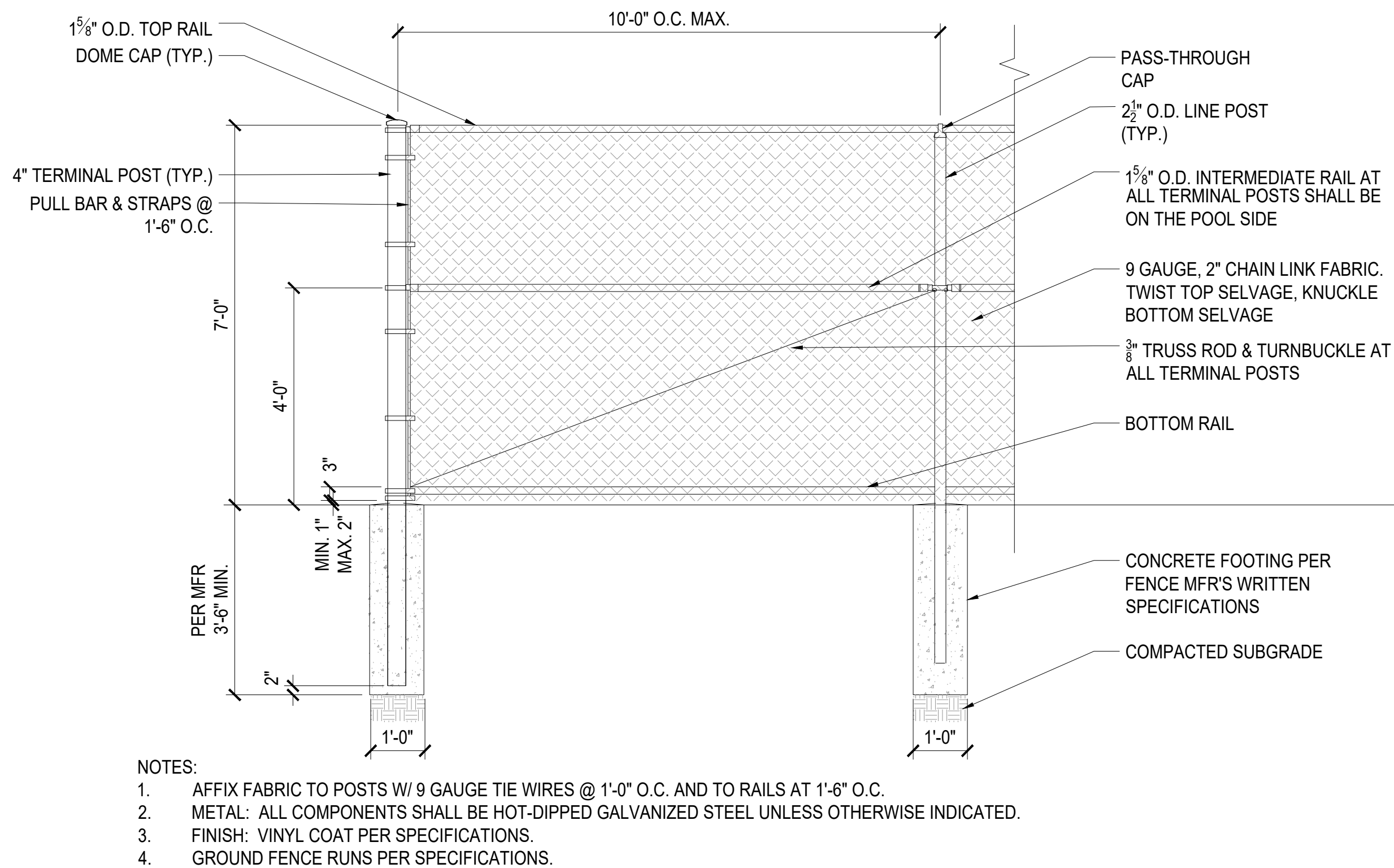
No.	Description	Date
Revisions		
Project Number: 22.00036.00		
Scale: AS SHOWN		
Drawn By: AD, HW, BS		
Checked By: AD		
Date: 01/08/2024		
Sheet No. L312A		

NFC

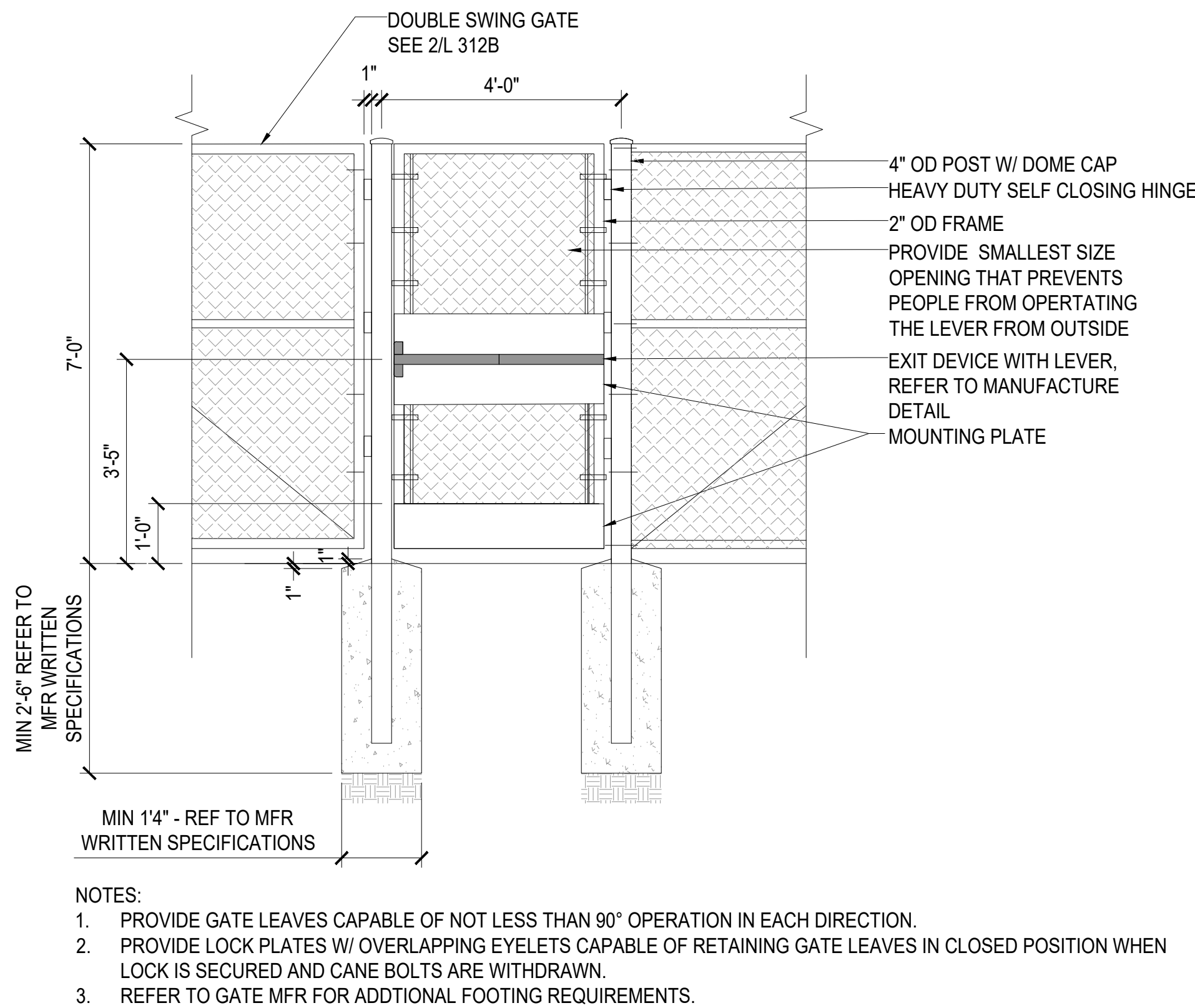




3 CHAIN LINK FENCE AND GATE ELEVATION  
1/2" = 1'-0"



2 CHAIN LINK FENCE  
1/2" = 1'-0"



1 PEDESTRIAN EGRESS GATE  
1/2" = 1'-0"

NFC

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

CONSTRUCTION  
DETAILS

BID SET

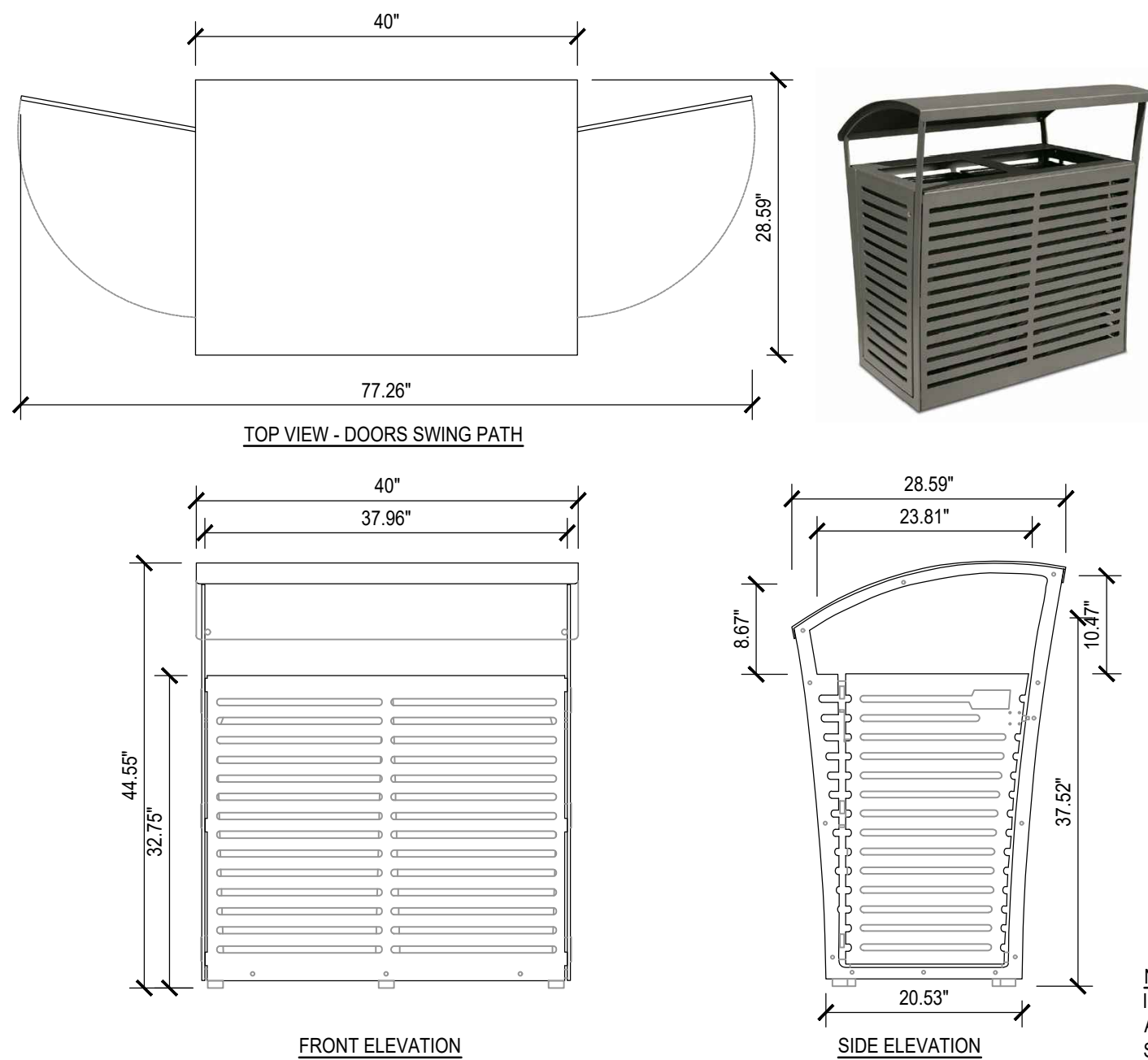
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8	BUILDING PERMIT SET	02/20/2024
9	BID SET	02/23/2024

No.	Description	Date
Revisions		
Project Number: 22.00036.00		
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Checked By: AD		
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Sheet No.		

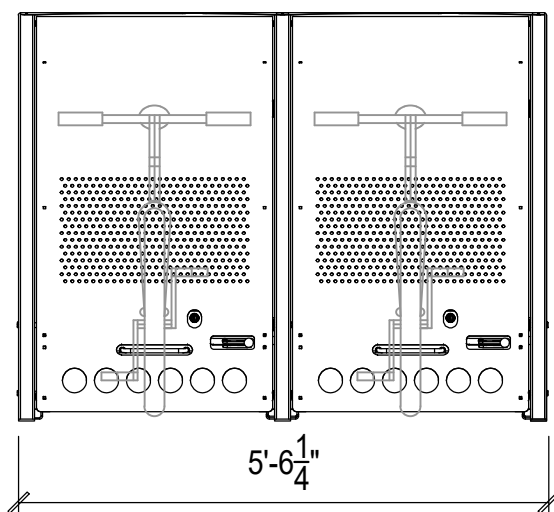
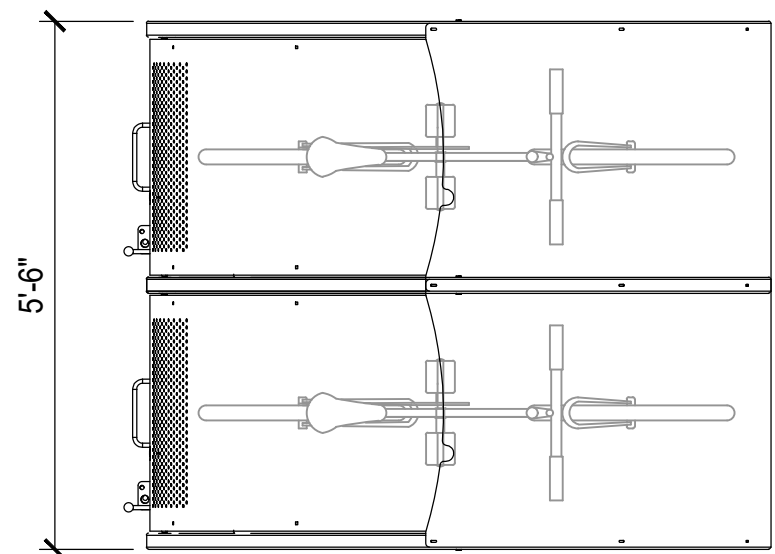
L312B

BID SET 02/23/2024



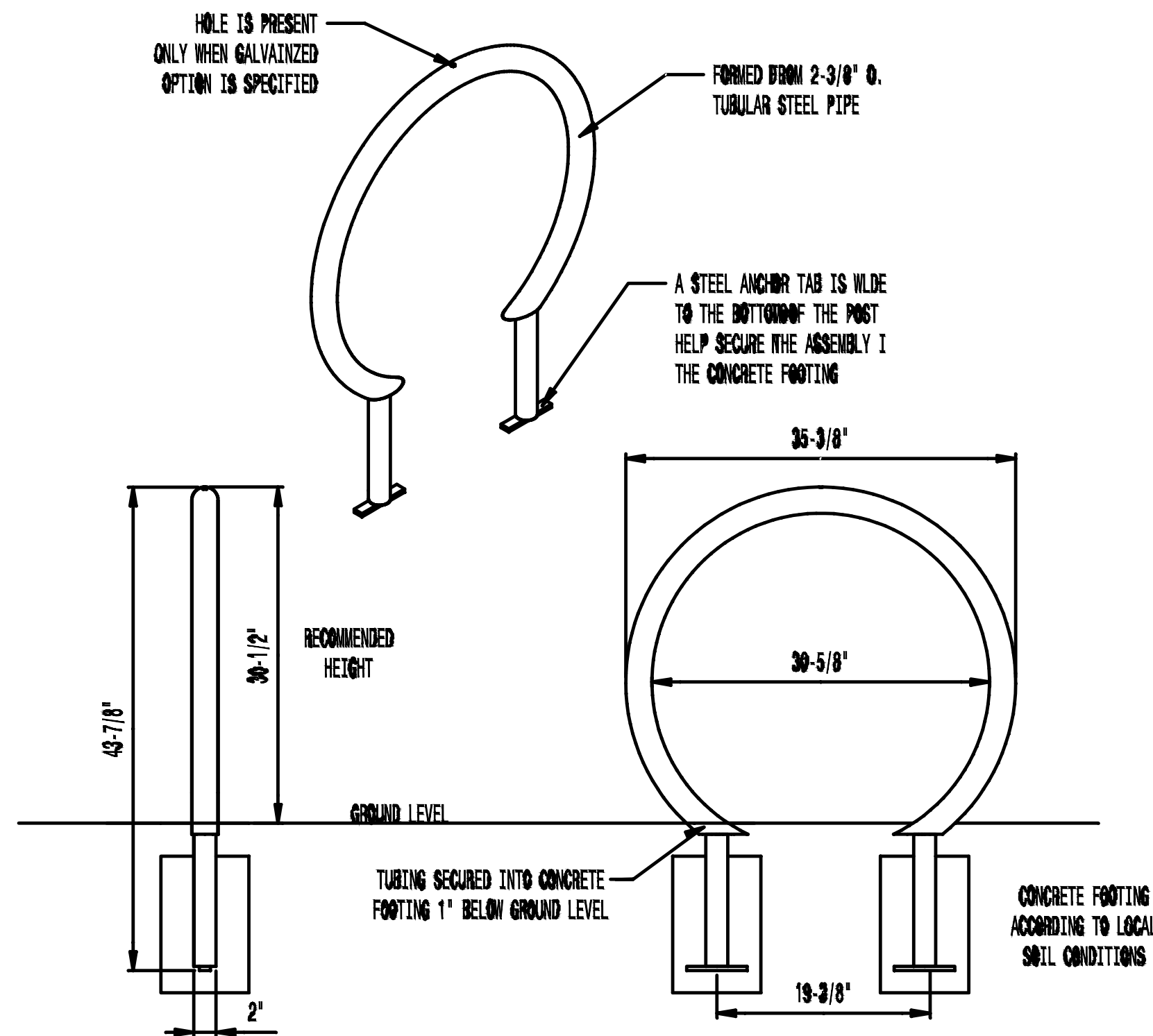


NOTES:  
INSTALLATION TO BE COMPLETED IN  
ACCORDANCE WITH MANUFACTURER'S  
SPECIFICATIONS.



### 3 BIKE LOCKER

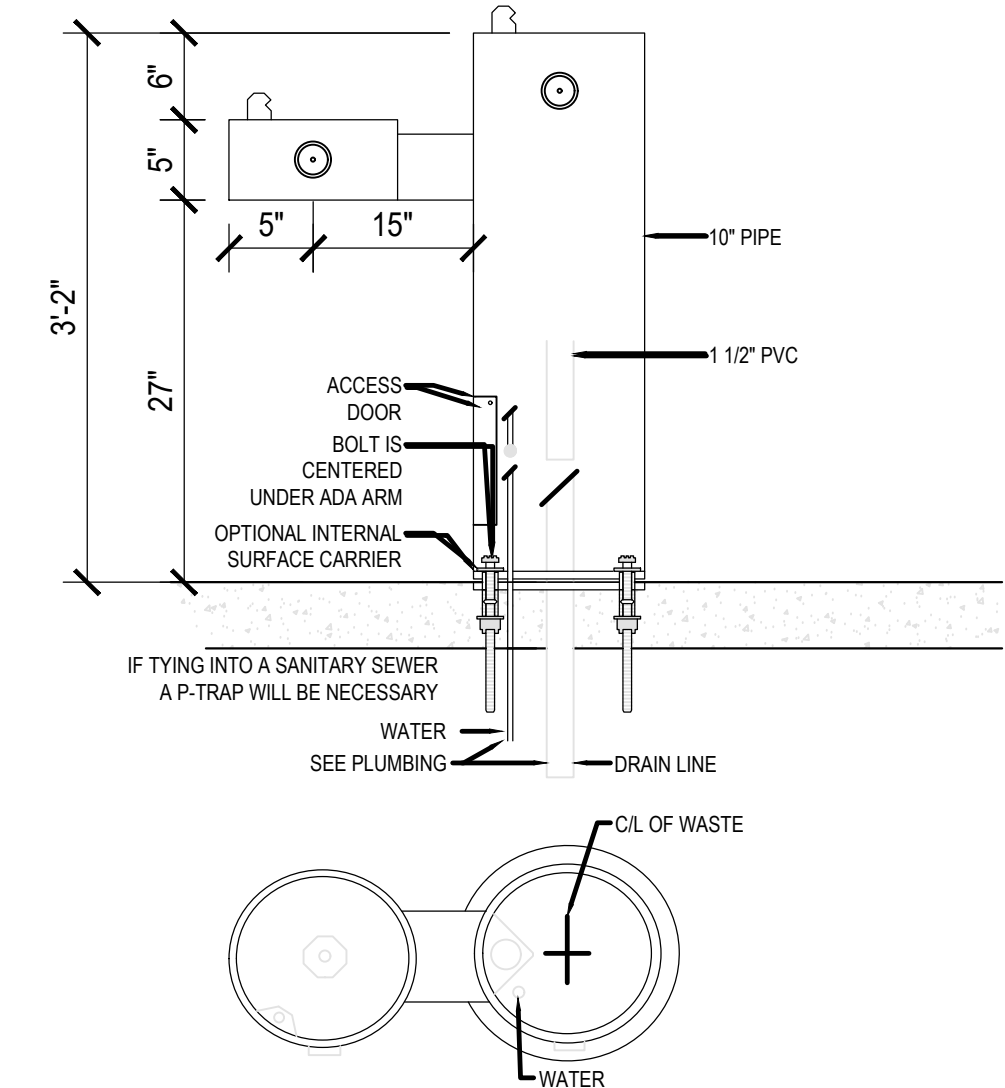
1/2" = 1'-0"



- NOTE:
1. MANUFACTURE: VICTOR STANLEY  
MODEL: BRHS-101
  2. BICYCLE RACKS TYPICALLY LOCATED IN CONCRETE PADS - SEE PLANS FOR EXTENT (VARIES)

### 1 BIKE RACK

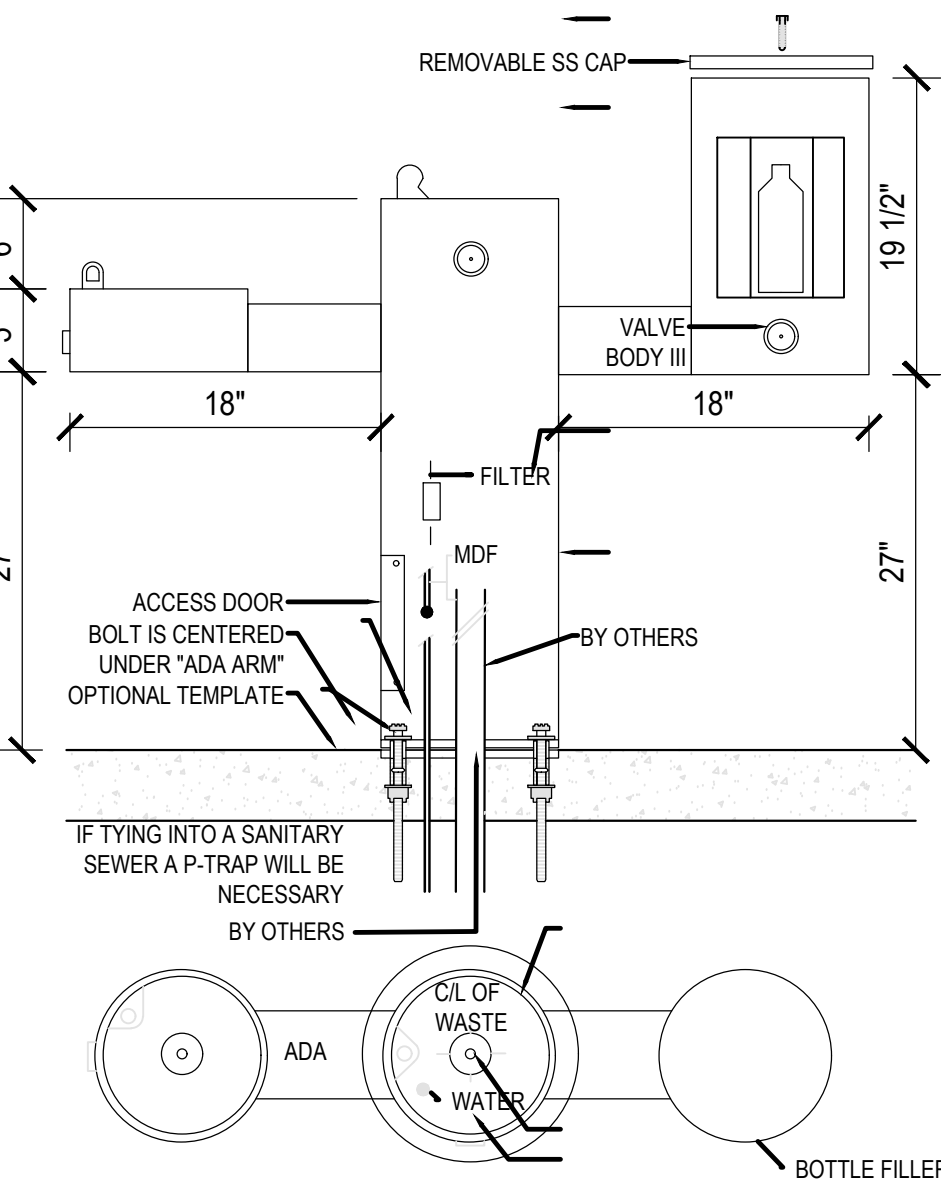
N/A



- NOTE:
1. MANUFACTURE: MOST DEPENDABLE FOUNTAINS  
MODEL: 440 SMSSFA WITH FOOT SPRAY AND  
HOSE BIB
  2. DETAIL FOR 400 SMSS MODEL STANDARD,  
REFERENCE ONLY.
  3. NO FILTER INCLUDED.

### 6 DRINKING WATER FOUNTAIN TYPE 1

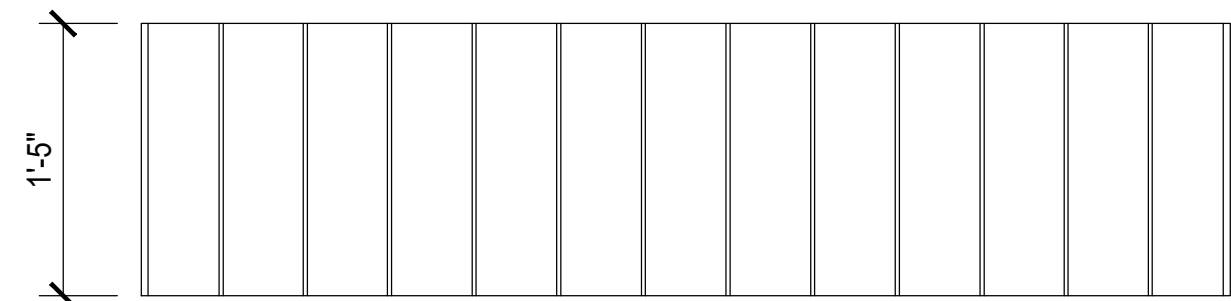
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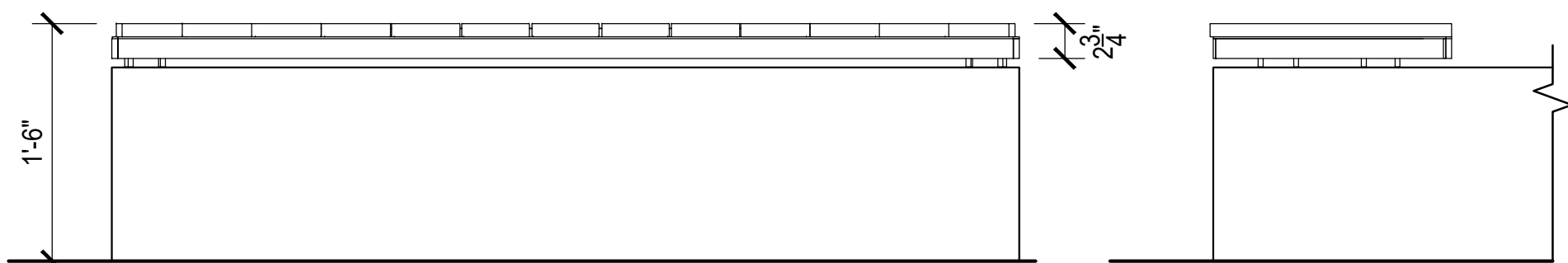
- NOTE:
1. MANUFACTURE: MOST DEPENDABLE FOUNTAINS  
MODEL: 10150 SMSS WITH FOOT SPRAY AND  
HOSE BIB
  2. DETAIL FOR 10150 SMSS MODEL STANDARD,  
REFERENCE ONLY.
  3. REMOVE FILTER FROM STANDARD MODEL.

### 7 DRINKING WATER TYPE 2

N/A

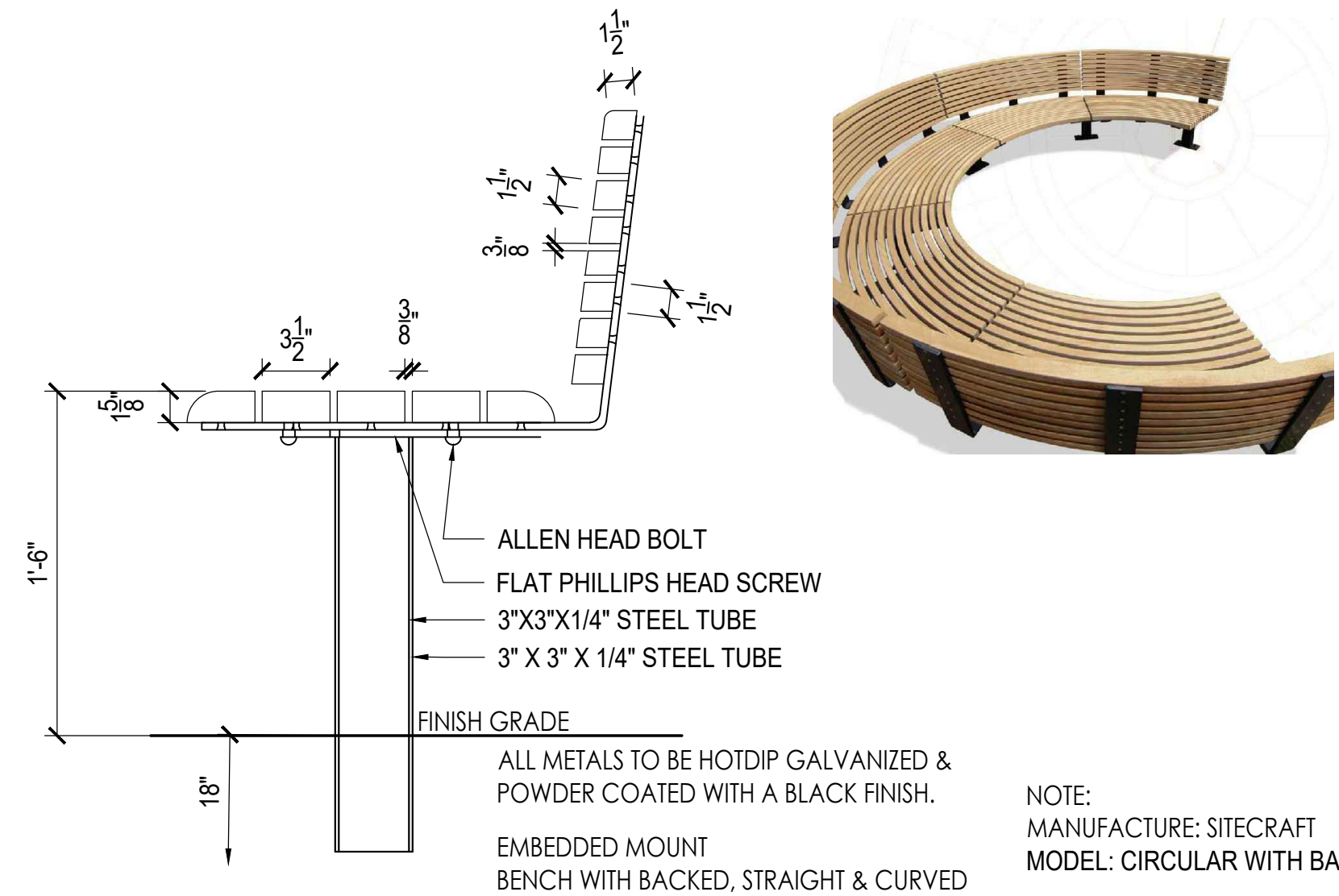
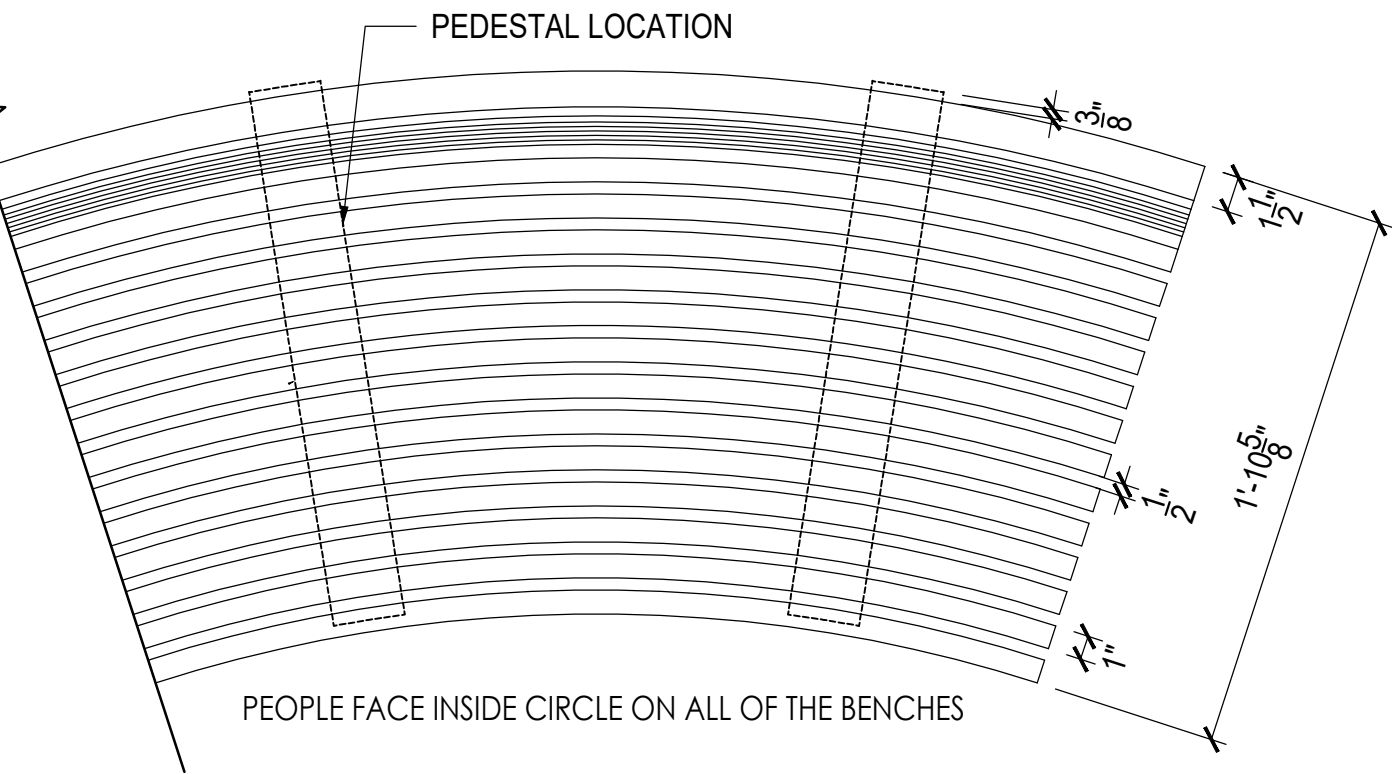


- NOTES:
1. MANUFACTURER: MAGLIN  
MODEL: OGDEN
  2. REFERENCE ONLY.
  3. PROVIDE SHOP DRAWINGS FOR  
REVIEW AND APPROVAL



### 4 BENCH TOP

N/A



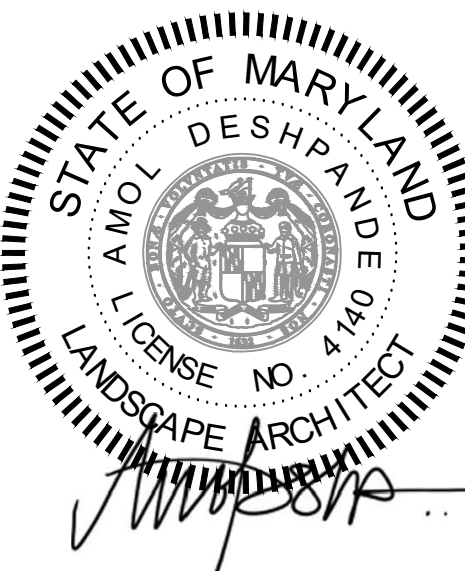
- NOTE:
1. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.
  2. PROVIDE CONCRETE FOOTING AS PER MANUFACTURER'S RECOMMENDATIONS.

### 2 BENCH

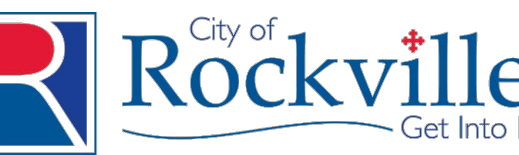
1 1/2" = 1'-0"

## LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

## OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

## CONSTRUCTION DETAILS

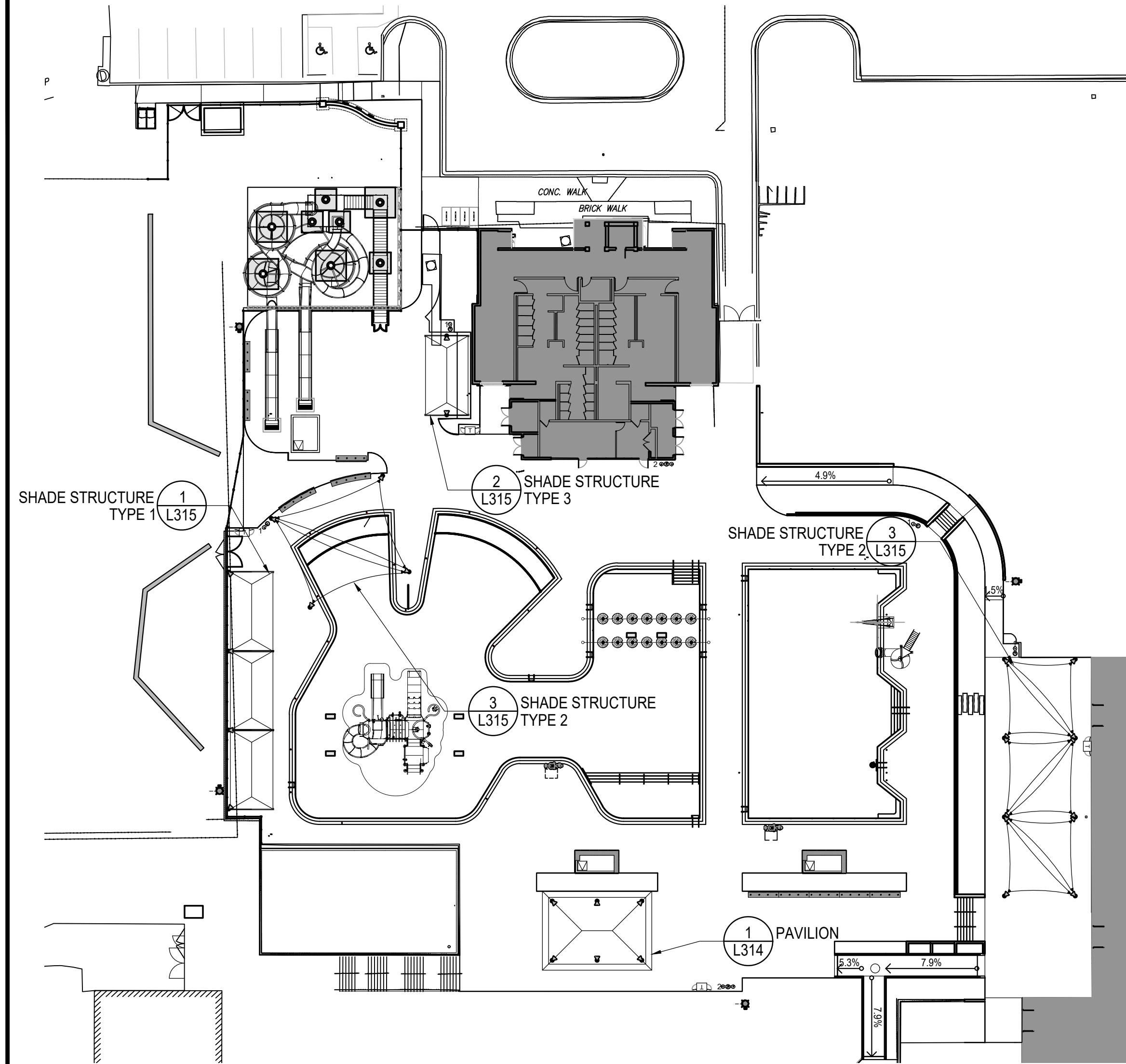
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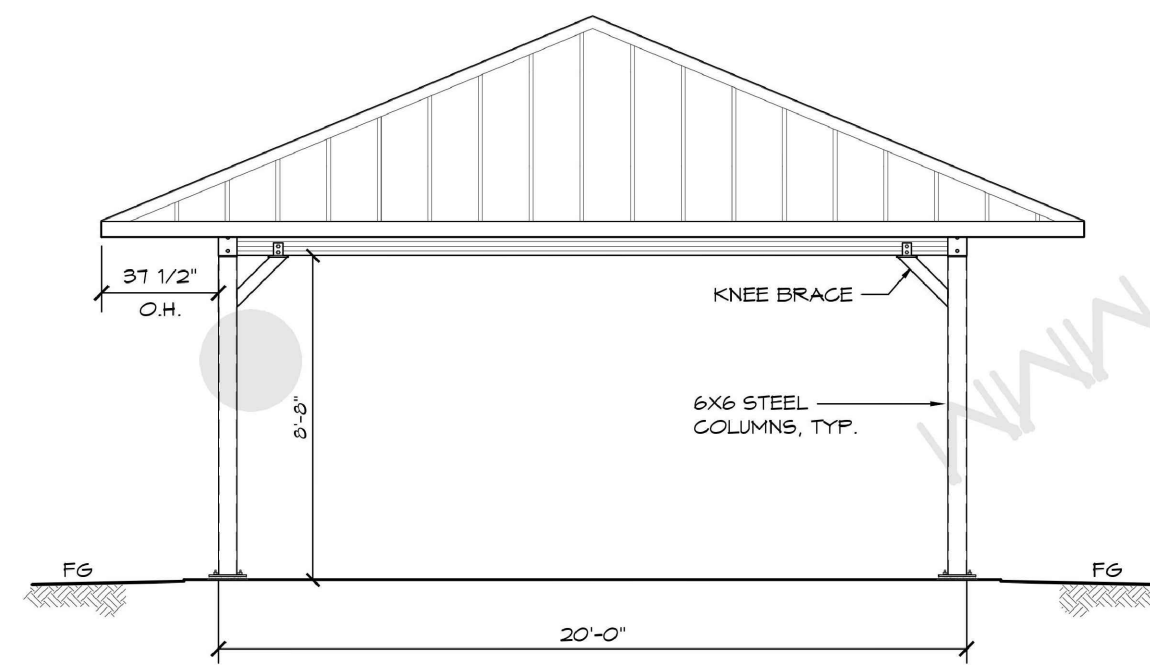
No.	Description	Date
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Project Number: 22.00036.00		
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Drawn By: AD, HW, BS		
Checked By: AD		
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Sheet No. L313		

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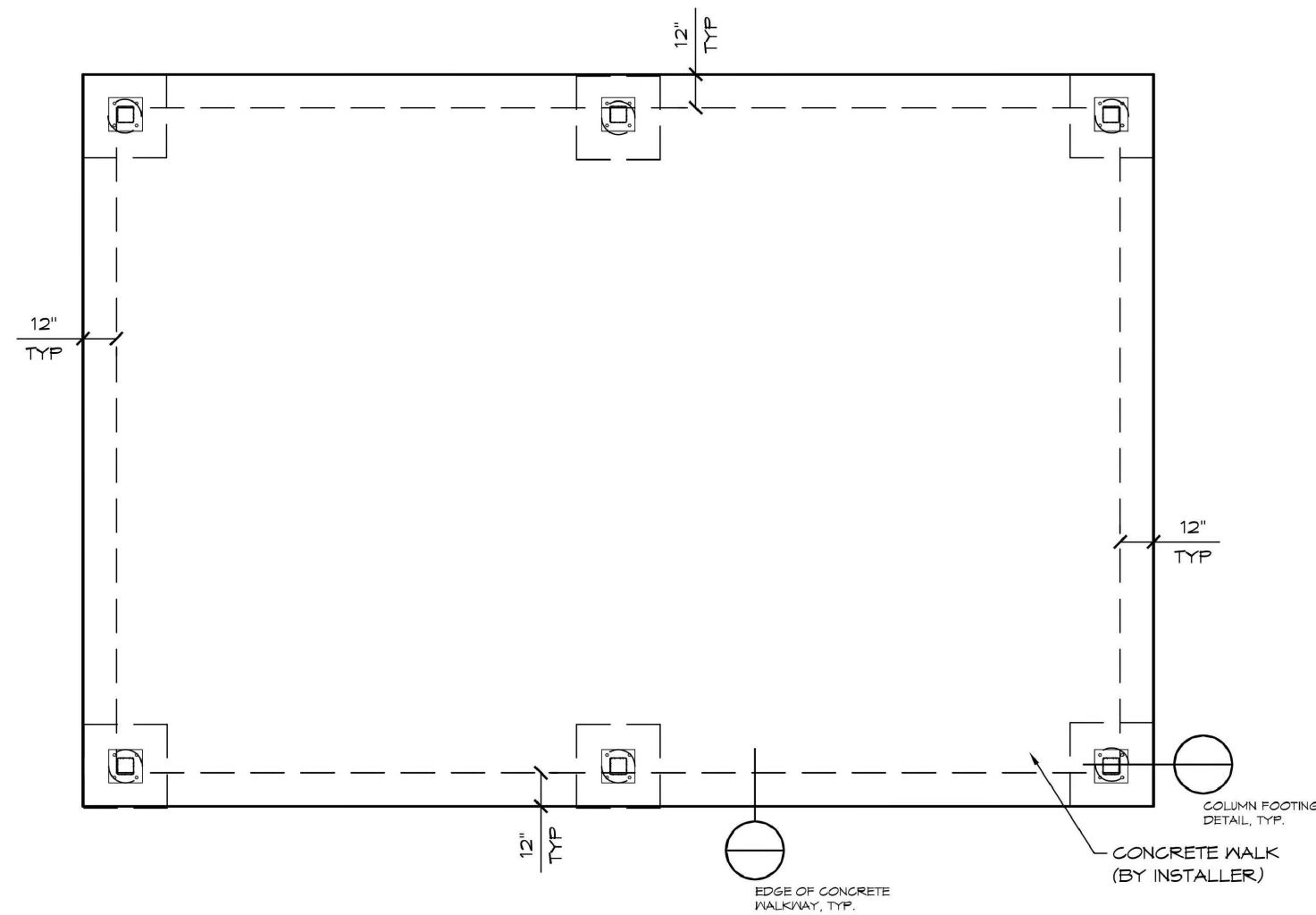


6 KEY PLAN  
N/A



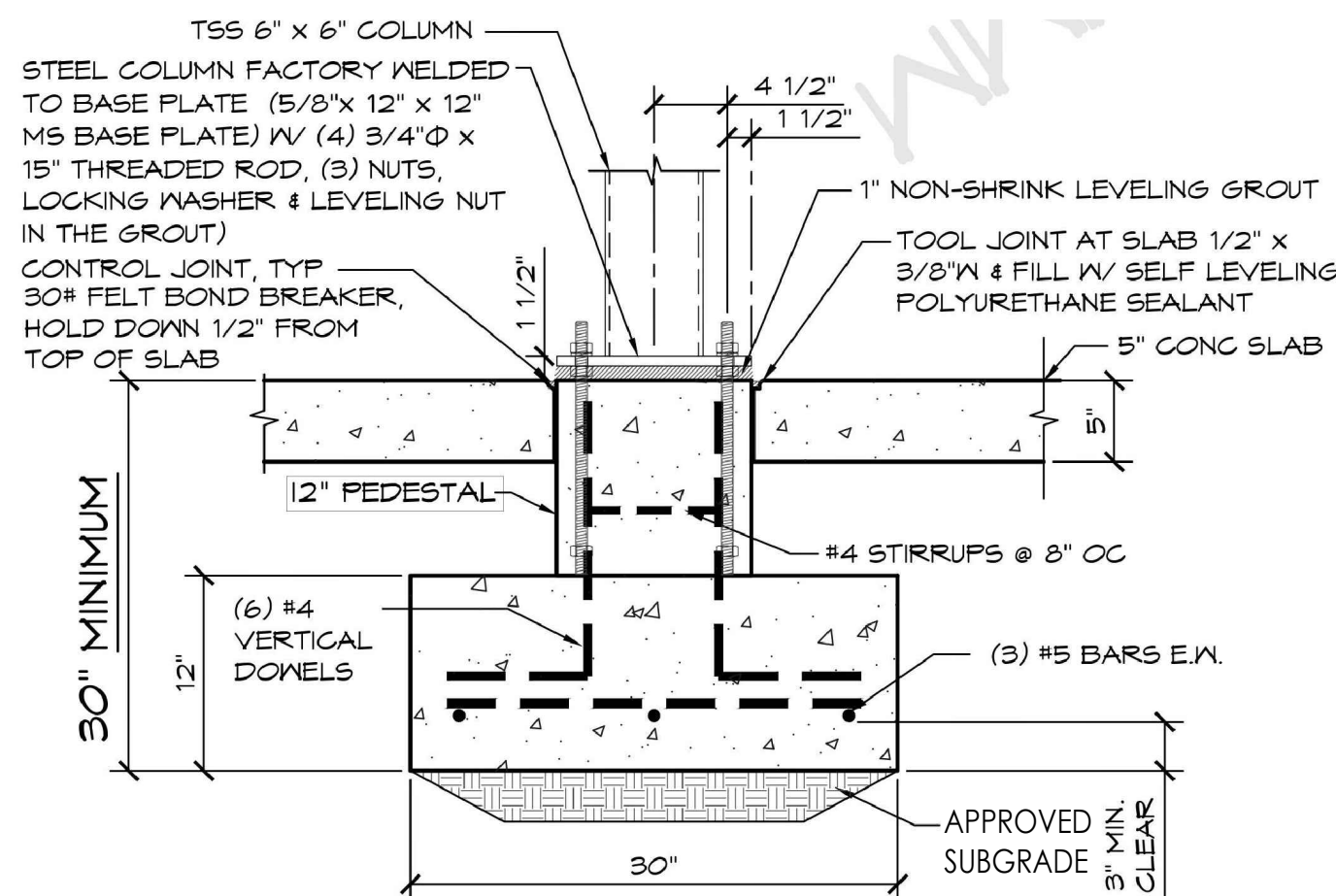
B ELEVATION VIEW

3 ELEVATION B  
N/A



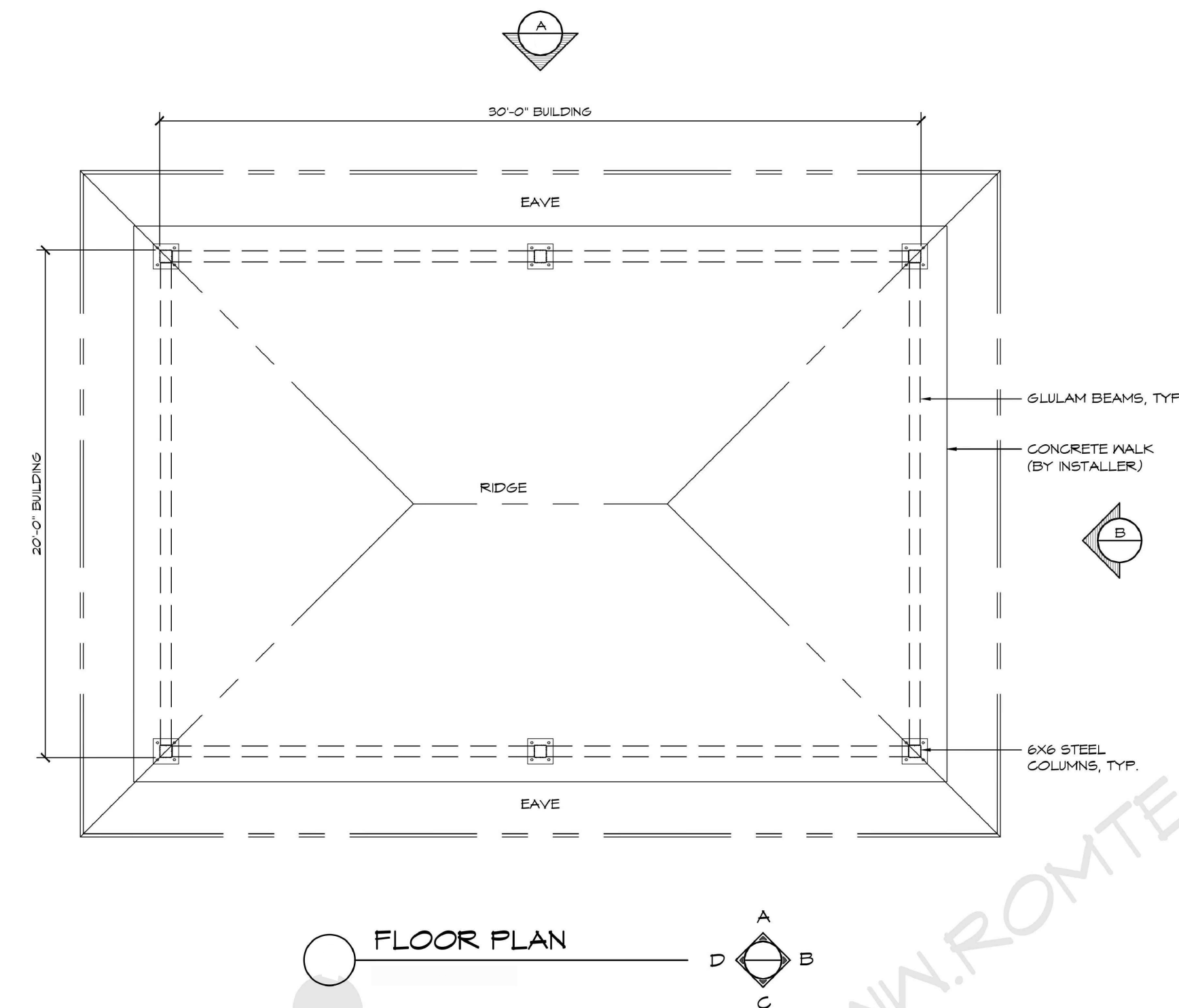
A FOUNDATION PLAN

4 FOUNDATION PLAN  
N/A

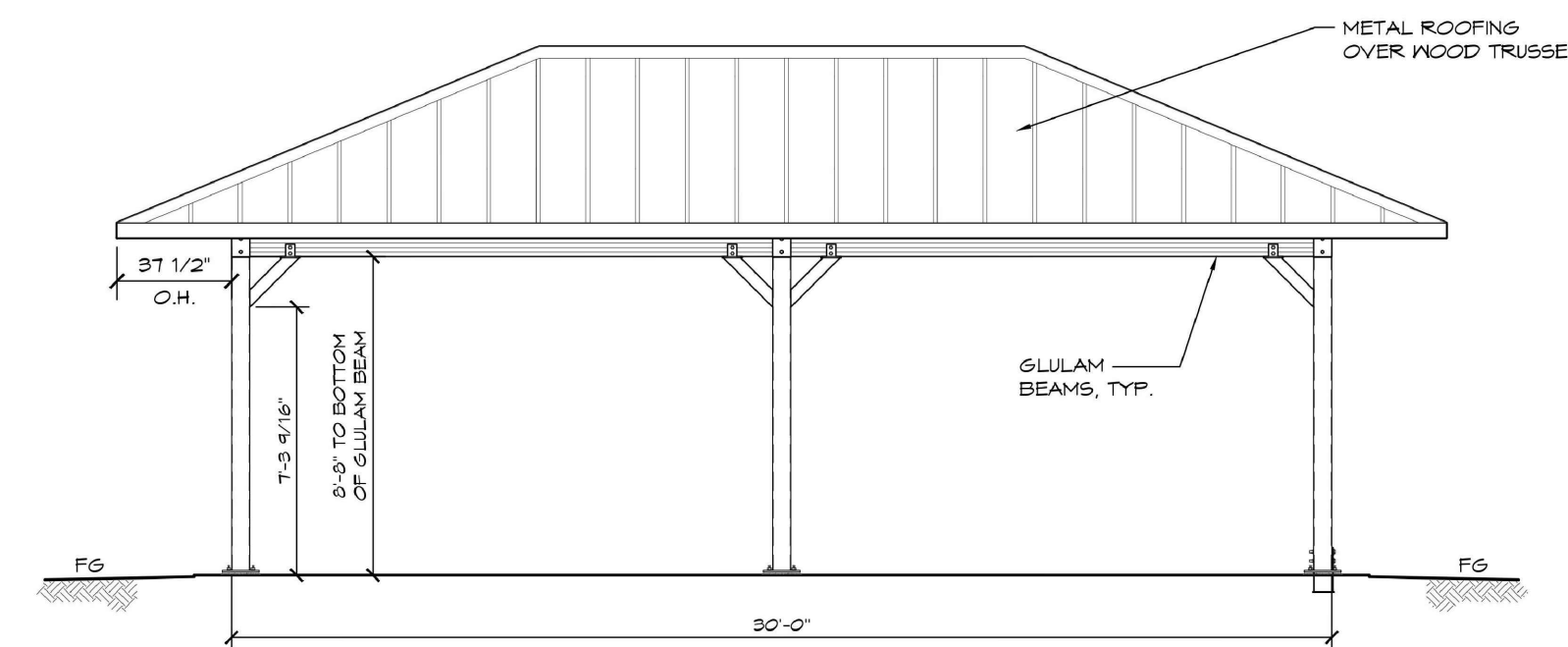


A COLUMN FOOTING DETAIL  
SCALE: 1" = 1'-0"

5 FOUNDATION DETAILS  
1"=1'-0"



1 PAVILION  
N/A



A ELEVATION VIEW

- NOTES:
1. MANUFACTURER: ROMTEC  
REFERENCE ONLY. REFER TO MANUFACTURE DETAIL.
  2. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL. SHOP DRAWINGS TO BE STAMPED BY AN  
ENGINEER LICENSED IN THE STATE OF MARYLAND.
  3. REFER TO L320 FOR MORE INFORMATION

2 ELEVATION A  
N/A

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

CONSTRUCTION  
DETAILS

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Checked By:	AD
Date:	01/08/2024

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NFC

BID SET 02/23/2024



5 NOT USED  
N/A



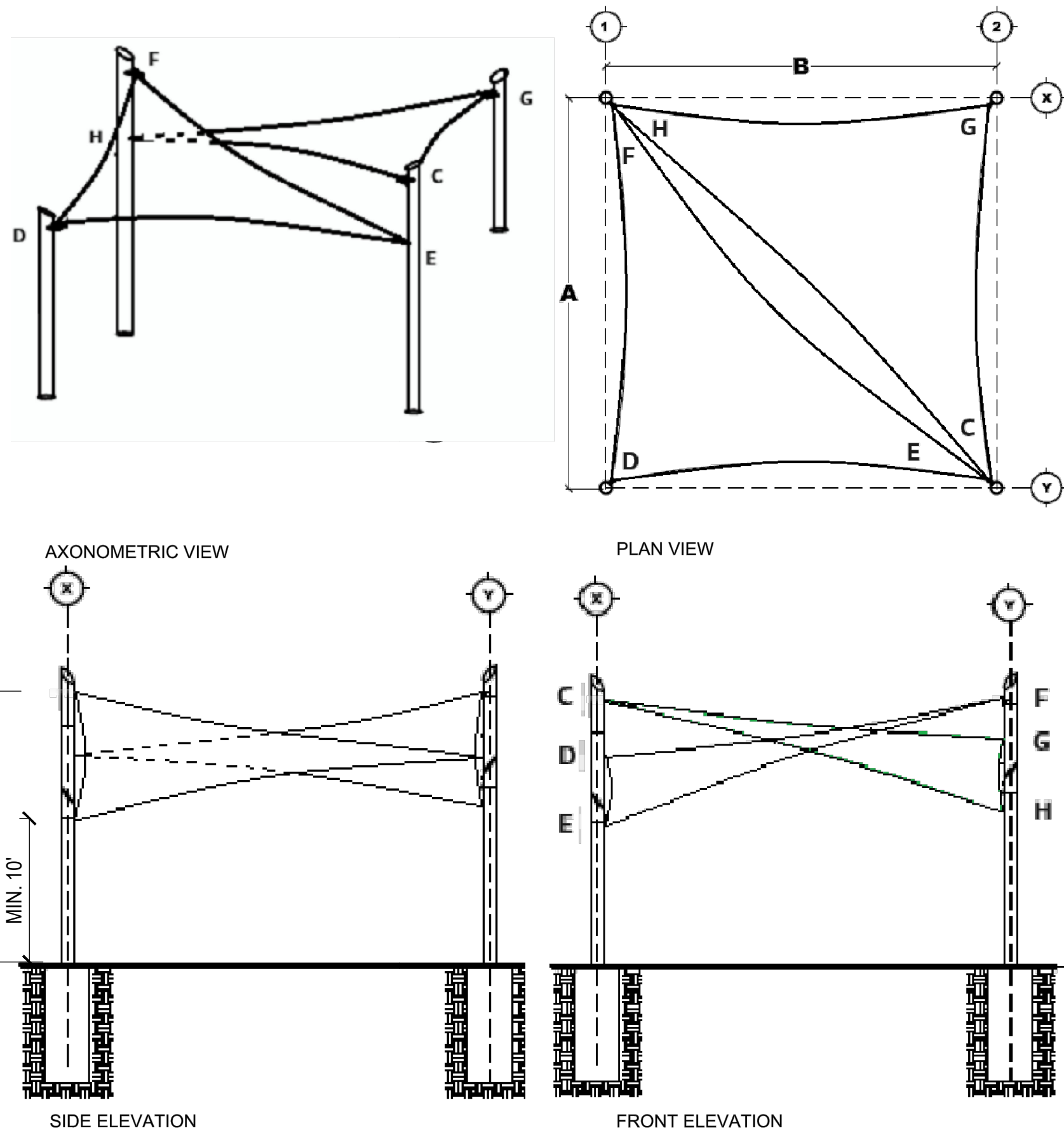
NOTE:  
1. MANUFACTURE: TUFF SHED  
MODEL: TAHOE SERIES SKYLINE INSTALLED STORAGE SHED  
SIZE: 6' X 10' X 8'-3"  
MATERIAL: WOOD  
FASTENRS: STAINLESS STEEL  
2. PROPOSED SHOP DRAWINGS AND PRODUCT DATA FOR REVIEW AND APPROVAL.

6 CHEMICAL STORAGE SHED OR APPROVED EQUAL  
N/A



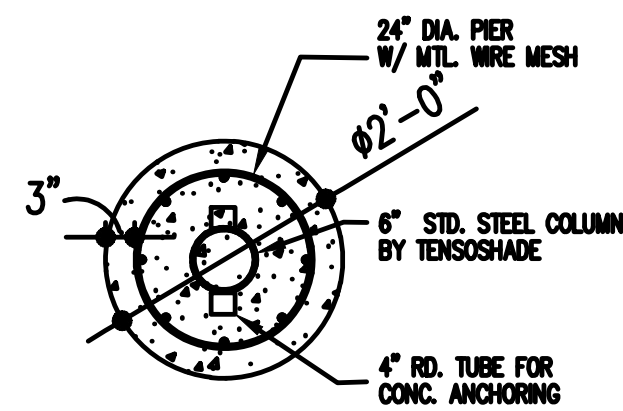
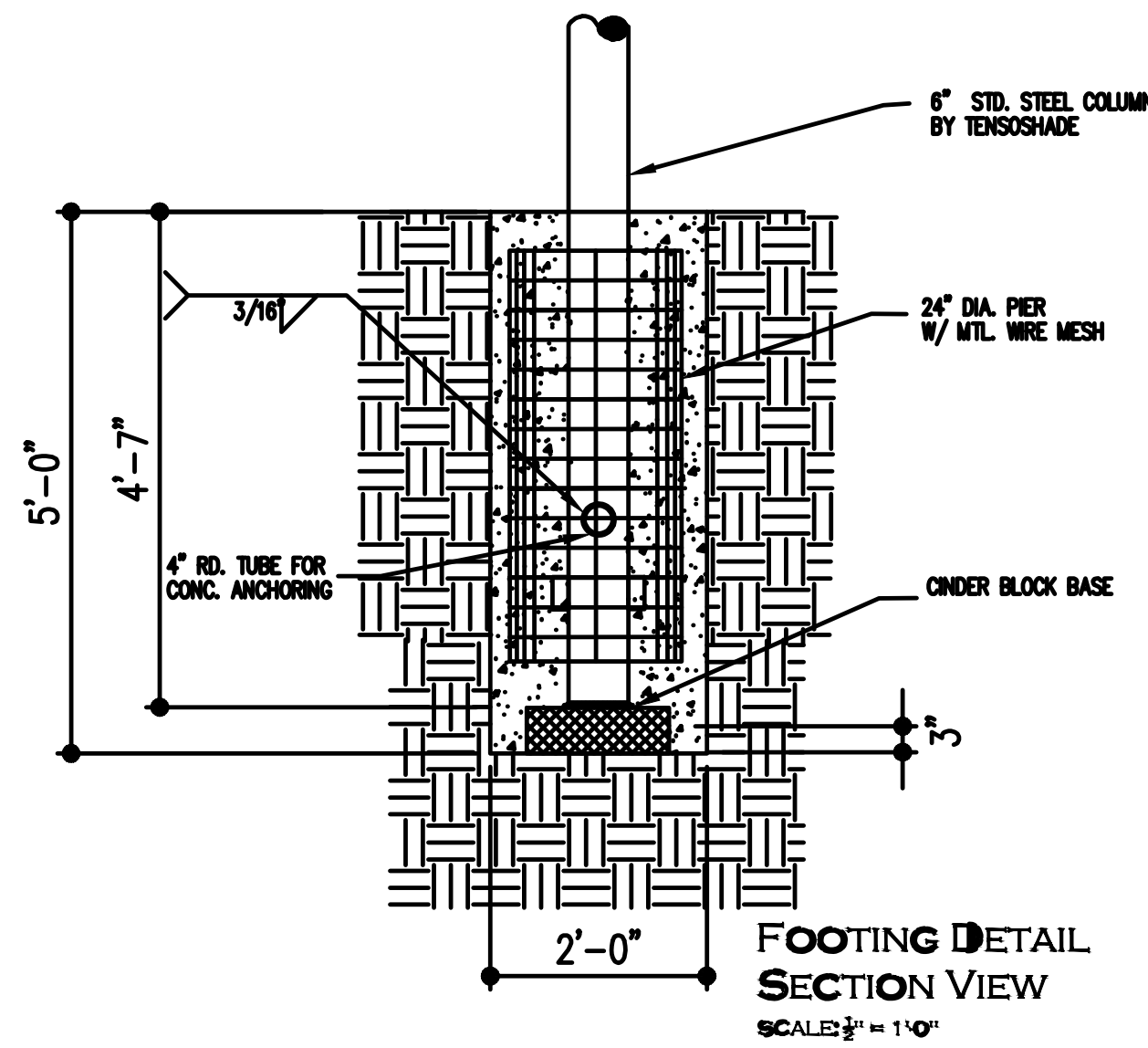
NOTE:  
1. MANUFACTURE: CORNELL COOKSON  
MODEL: ESD10 ROLLING SERVICE DOOR  
SIZE: 9'-11" X 11'-9"  
GAITHERSBURG GARAGE DOOR, ROCKVILLE, MD (301) 990-6200

7 GARAGE DOOR OR APPROVED EQUAL  
N/A



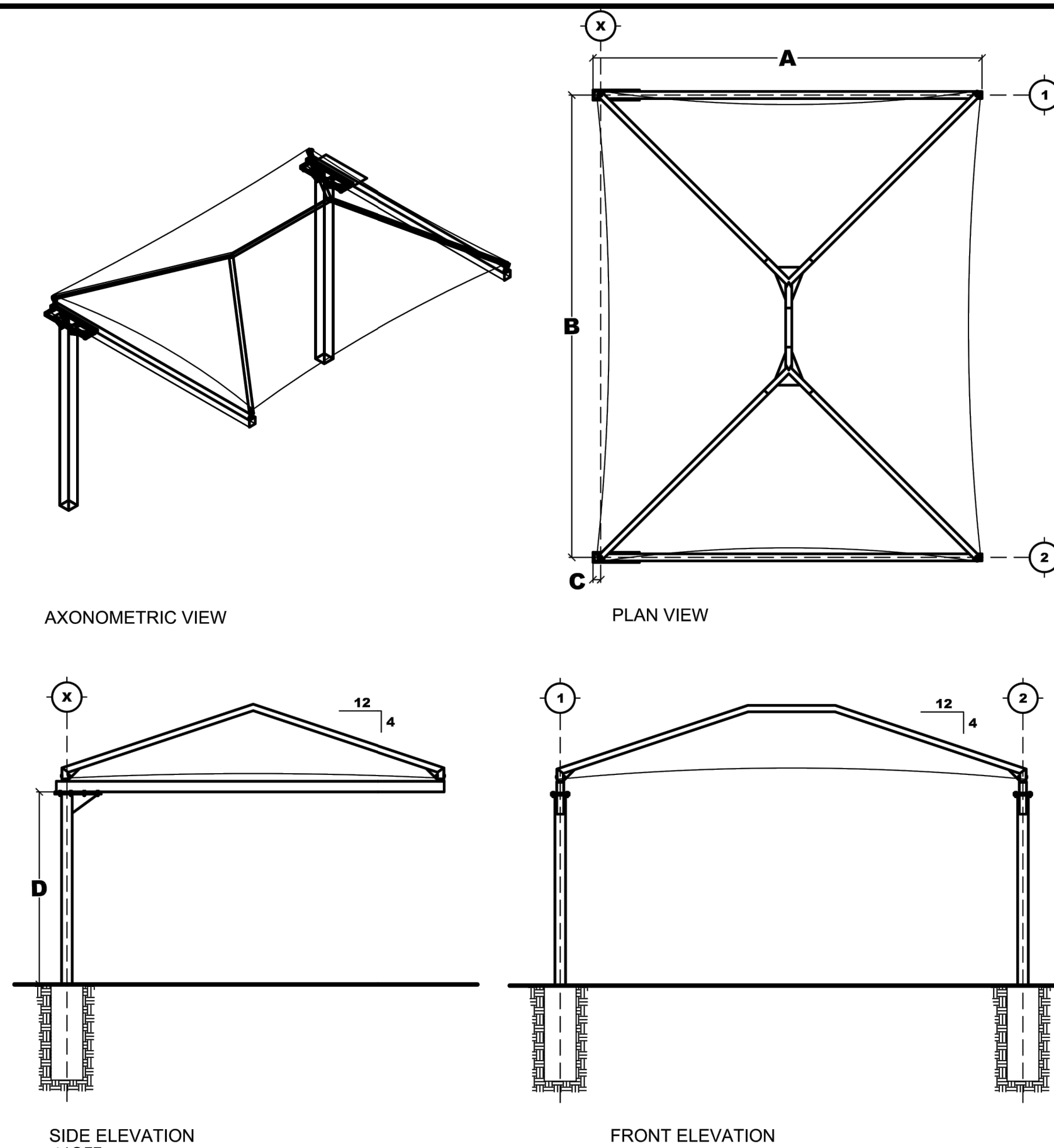
NOTE:  
1. MANUFACTURE: TENSOSHADE  
MODEL: HYPAR SHADE SAIL MANTA - REFER TO PLAN, REFER TO MANUFACTURE'S ENGINEERED DRAWINGS FOR DIMENSIONS.  
COLORS: TBD - PROVIDE STANDARD COLOR SAMPLES FOR REVIEW, SELECTION, AND APPROVAL.  
2. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL. SHOP DRAWINGS TO BE STAMPED BY AN ENGINEER LICENSED IN THE STATE OF MARYLAND.

3 SHADE STRUCTURE - TYPE 3  
N/A



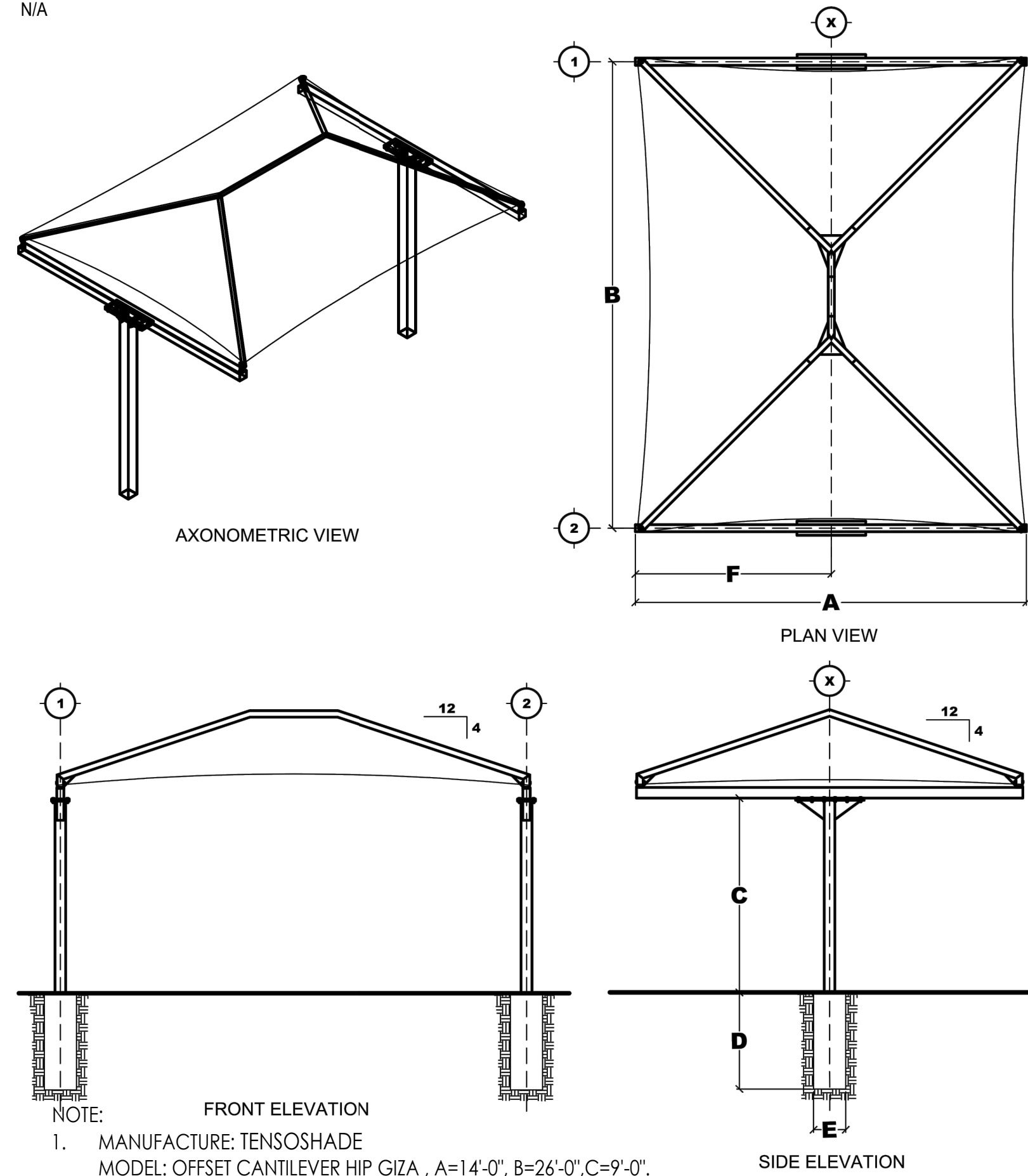
NOTE:  
1. REFERENCE ONLY. REFER TO MANUFACTURE DETAIL.

4 FOOTING DETAILS  
N/A



NOTE:  
1. MANUFACTURE: TENSOSHADE  
MODEL: FULL CANTILEVER HIP AZTEC , A=14'-0",B=26'-0",D=9'-0", REFER TO MANUFACTURE'S ENGINEERED DRAWINGS FOR DIMENSIONS.  
COLORS: TBD - PROVIDE STANDARD COLOR SAMPLES FOR REVIEW, SELECTION, AND APPROVAL.  
2. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL. SHOP DRAWINGS TO BE STAMPED BY AN ENGINEER LICENSED IN THE STATE OF MARYLAND.

1 SHADE STRUCTURE - TYPE 1  
N/A



NOTE:  
1. MANUFACTURE: TENSOSHADE  
MODEL: OFFSET CANTILEVER HIP GIZA , A=14'-0",B=26'-0",C=9'-0", REFER TO MANUFACTURE'S ENGINEERED DRAWINGS FOR DIMENSIONS.  
COLORS: TBD - PROVIDE STANDARD COLOR SAMPLES FOR REVIEW, SELECTION, AND APPROVAL.  
2. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL. SHOP DRAWINGS TO BE STAMPED BY AN ENGINEER LICENSED IN THE STATE OF MARYLAND.

2 SHADE STRUCTURE - TYPE 2  
N/A

LSG LANDSCAPE  
ARCHITECTURE

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SUITE 325  
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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

CONSTRUCTION  
DETAILS

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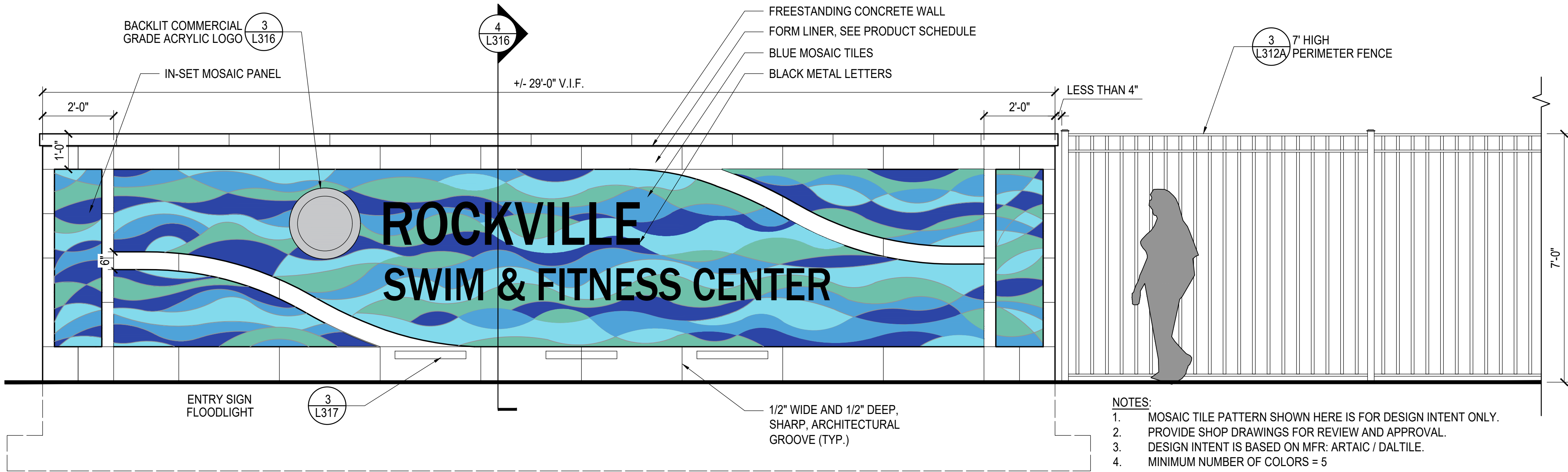
No.	Description	Date
Revisions		

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Checked By:	AD
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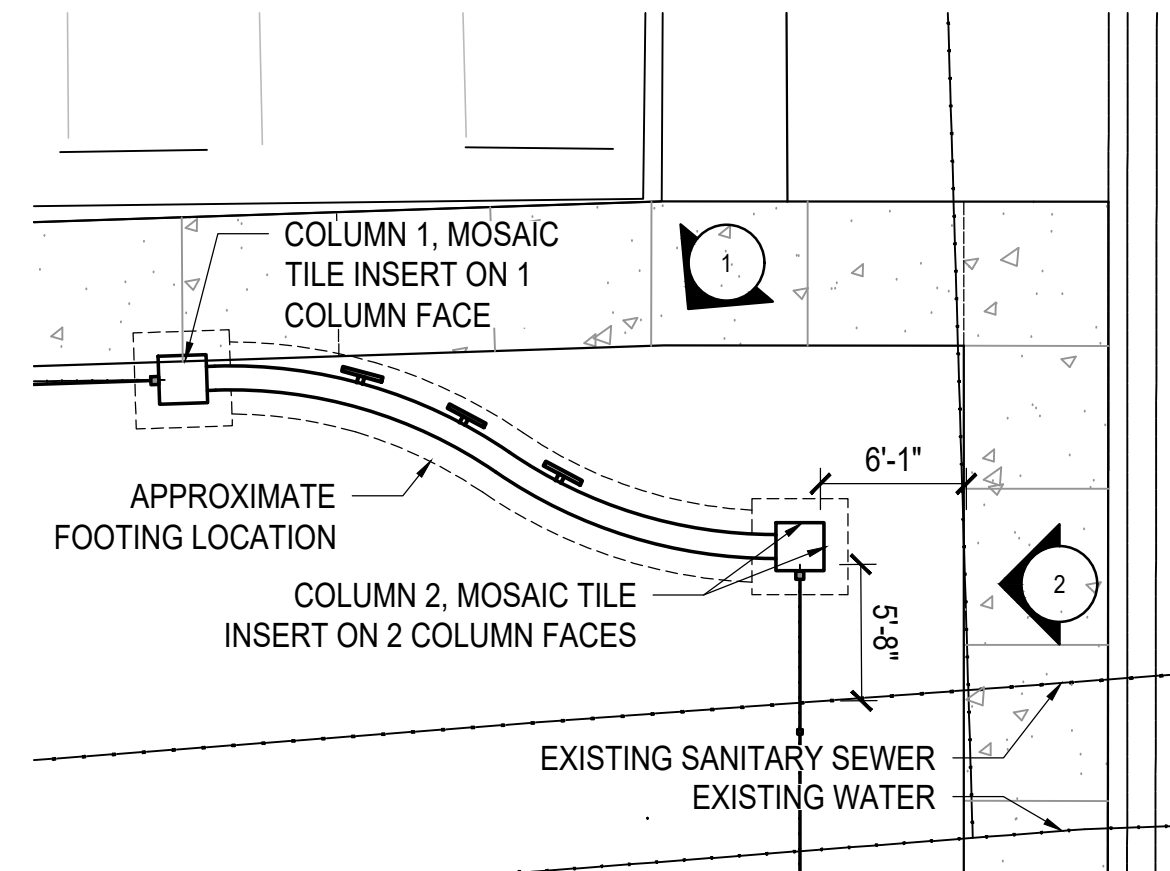
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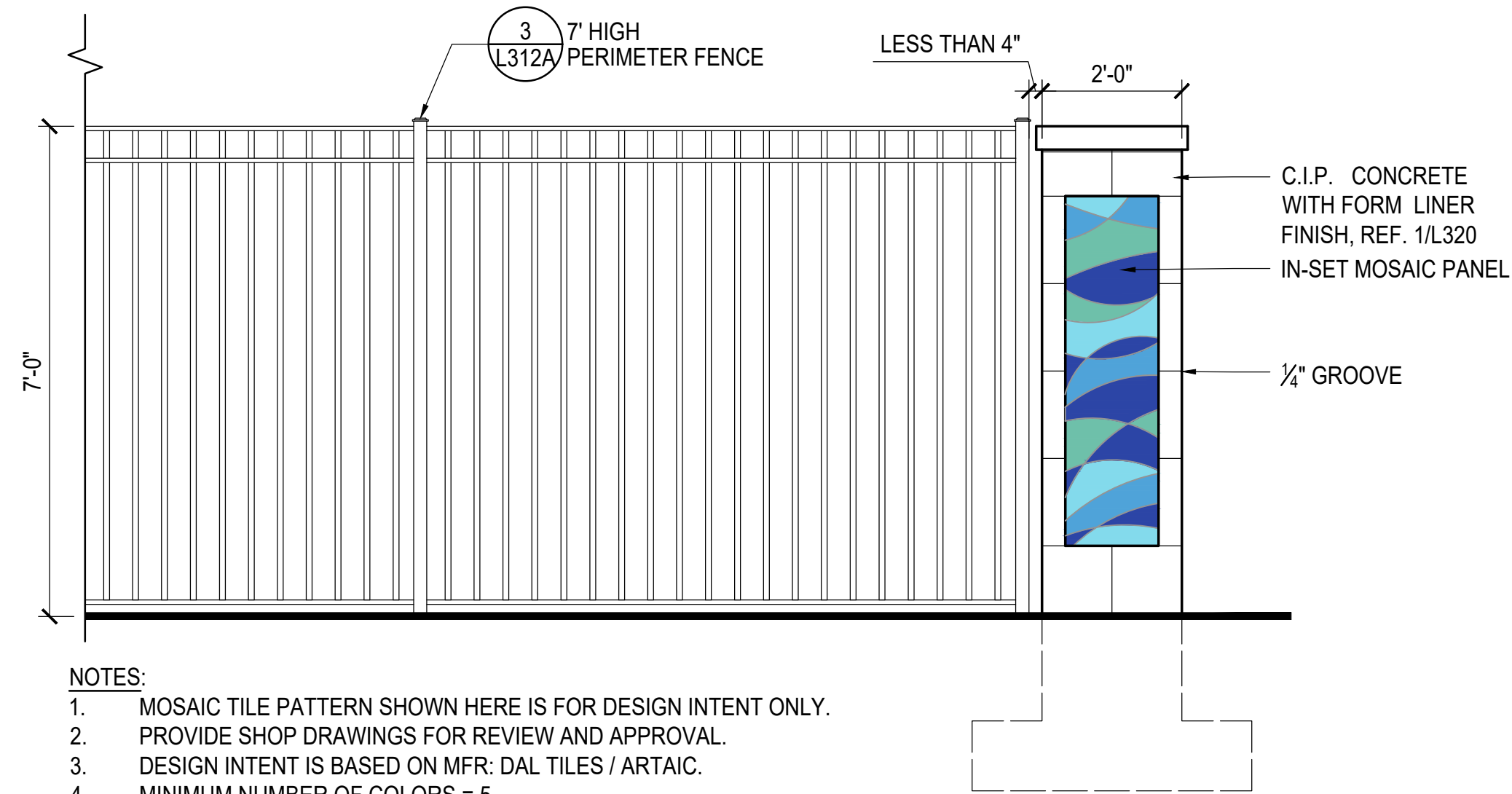


1 ENTRY WALL ELEVATION  
1/2" = 1'-0"

- NOTES:
1. MOSAIC TILE PATTERN SHOWN HERE IS FOR DESIGN INTENT ONLY.
  2. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL.
  3. DESIGN INTENT IS BASED ON MFR: ARTAIC / DAL TILE.
  4. MINIMUM NUMBER OF COLORS = 5
  5. 3/4" X 3/4" X 1/8" VITREOUS GLASS TILES.
  6. INSTALLATION: PER MANUFACTURER.
  7. GAP BETWEEN WALL AND FENCE SHALL BE LESS THAN 4".

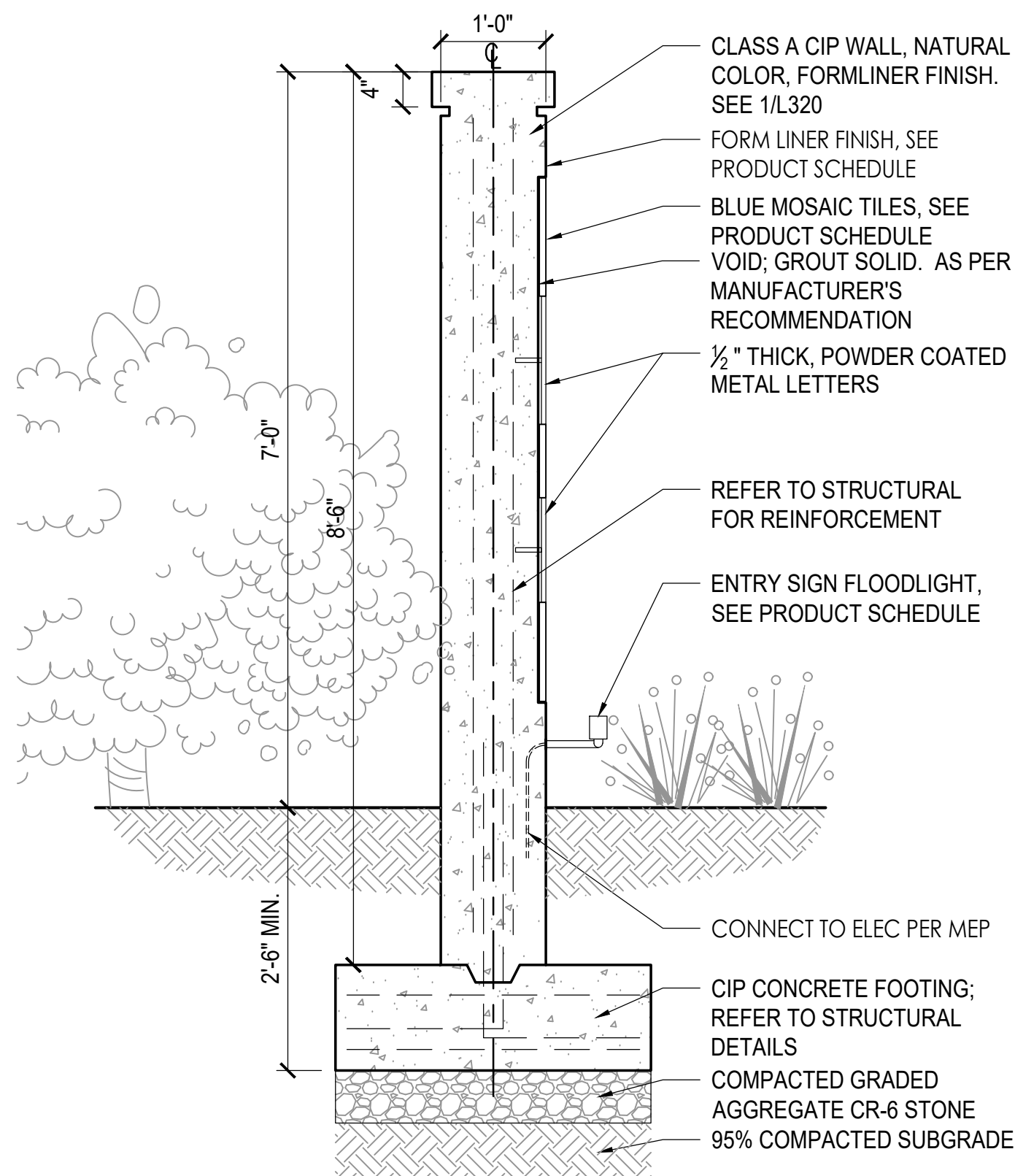


5 ENLARGEMENT PLAN  
1" = 8'-0"

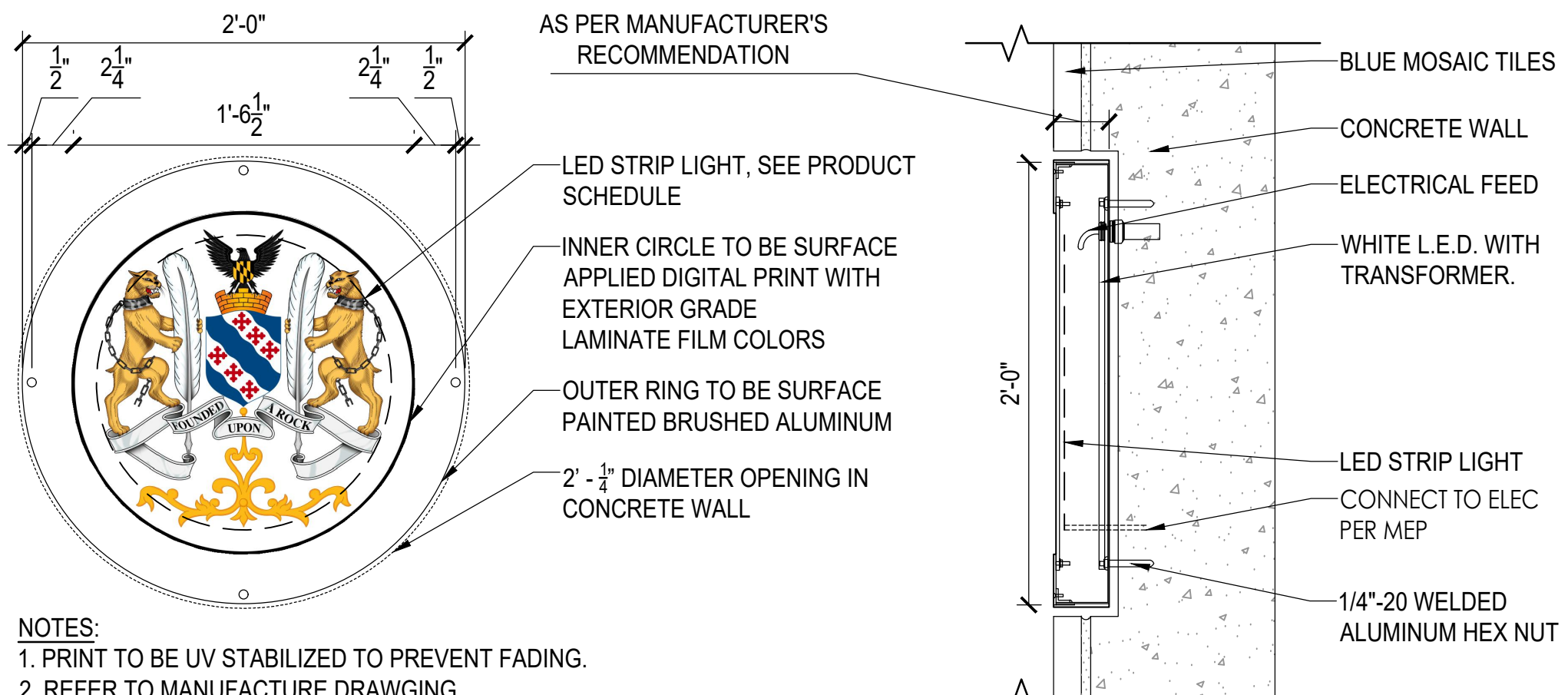


- NOTES:
1. MOSAIC TILE PATTERN SHOWN HERE IS FOR DESIGN INTENT ONLY.
  2. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL.
  3. DESIGN INTENT IS BASED ON MFR: DAL TILES / ARTAIC.
  4. MINIMUM NUMBER OF COLORS = 5
  5. TILE SIZE = 1'0" X 1'0" COMPOSED OF 3/4" vitreous 2" X 2" TILES.
  6. INSTALLATION: PER MANUFACTURER.
  7. GAP BETWEEN WALL AND FENCE SHALL BE LESS THAN 4".

2 ENTRY WALL ELEVATION  
1/2" = 1'-0"



4 ENTRY WALL  
3/4" = 1'-0"

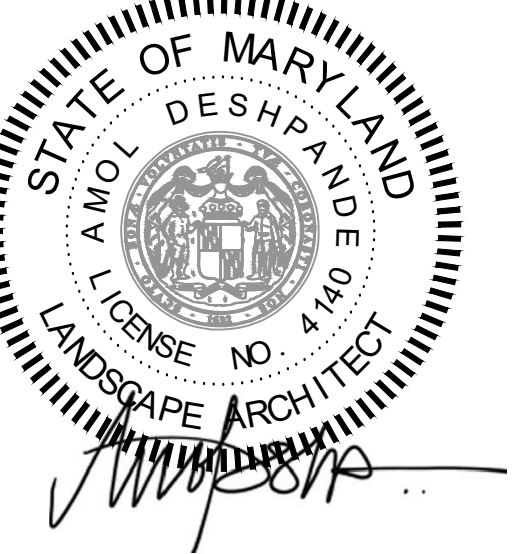


- NOTES:
1. PRINT TO BE UV STABILIZED TO PREVENT FADING.
  2. REFER TO MANUFACTURE DRAWING.

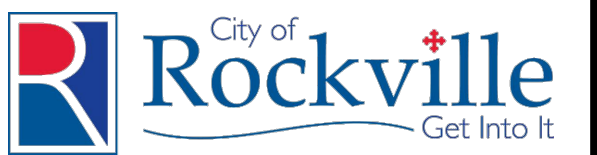
3 ENTRY WALL LOGO  
1 1/2" = 1'-0"

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

CONSTRUCTION  
DETAILS

BID SET

1	65% CONSTRUCTION DOCUMENT 06/25/2023
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8	BUILDING PERMIT SET 02/20/2024
9	BID SET 02/23/2024

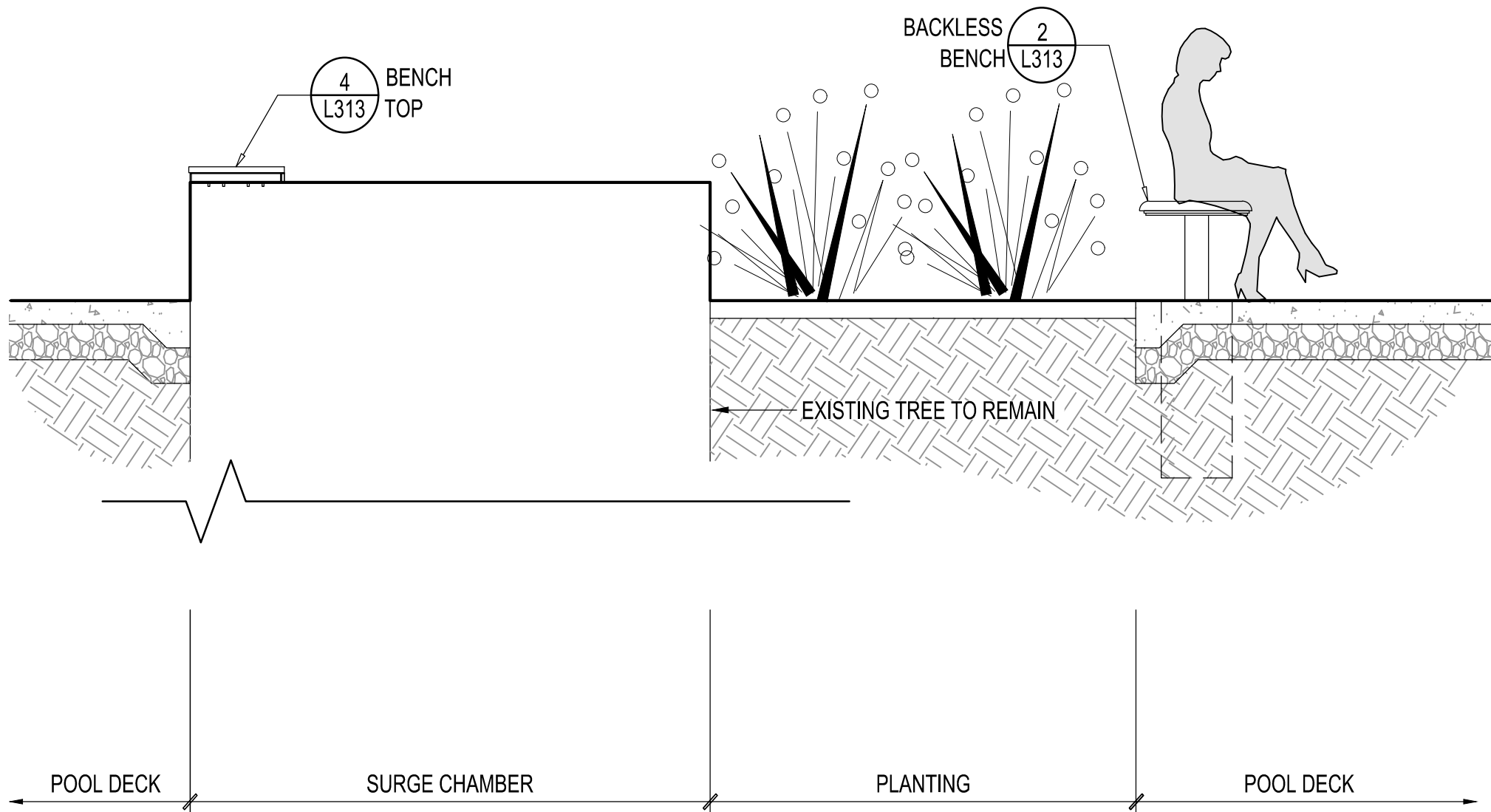
No.	Description	Date
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Project Number:	22.00036.00
Scale:	AS SHOWN
Drawn By:	AD, HW, BS
Checked By:	AD
Date:	01/08/2024

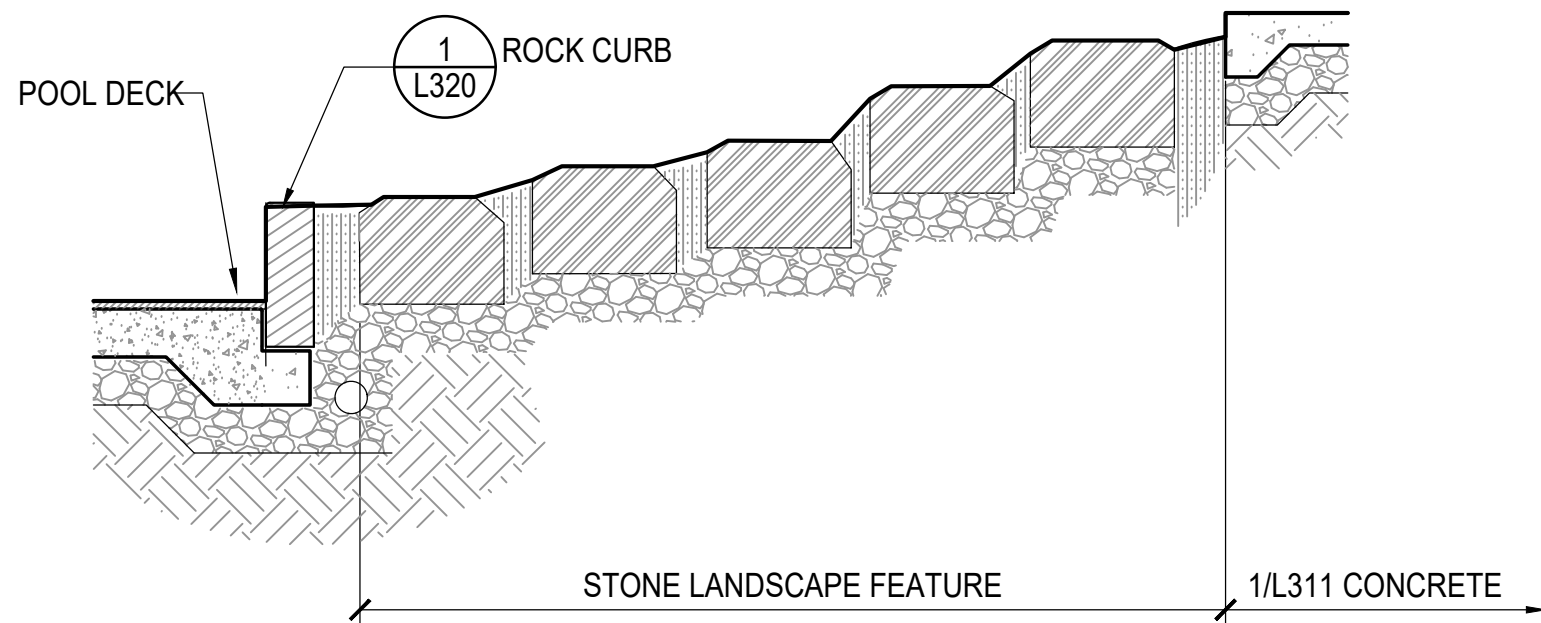
Sheet No. L316

NFC

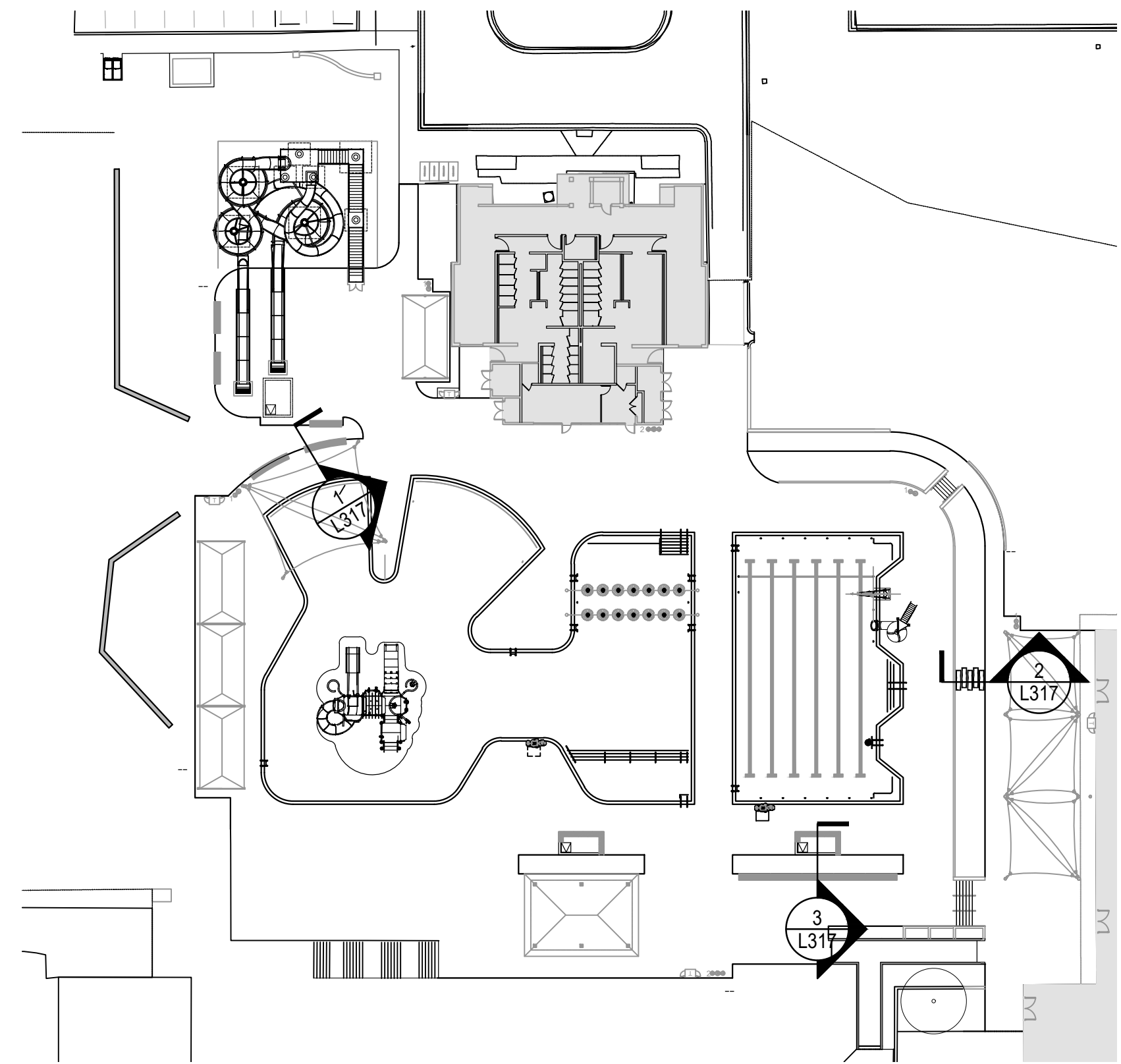




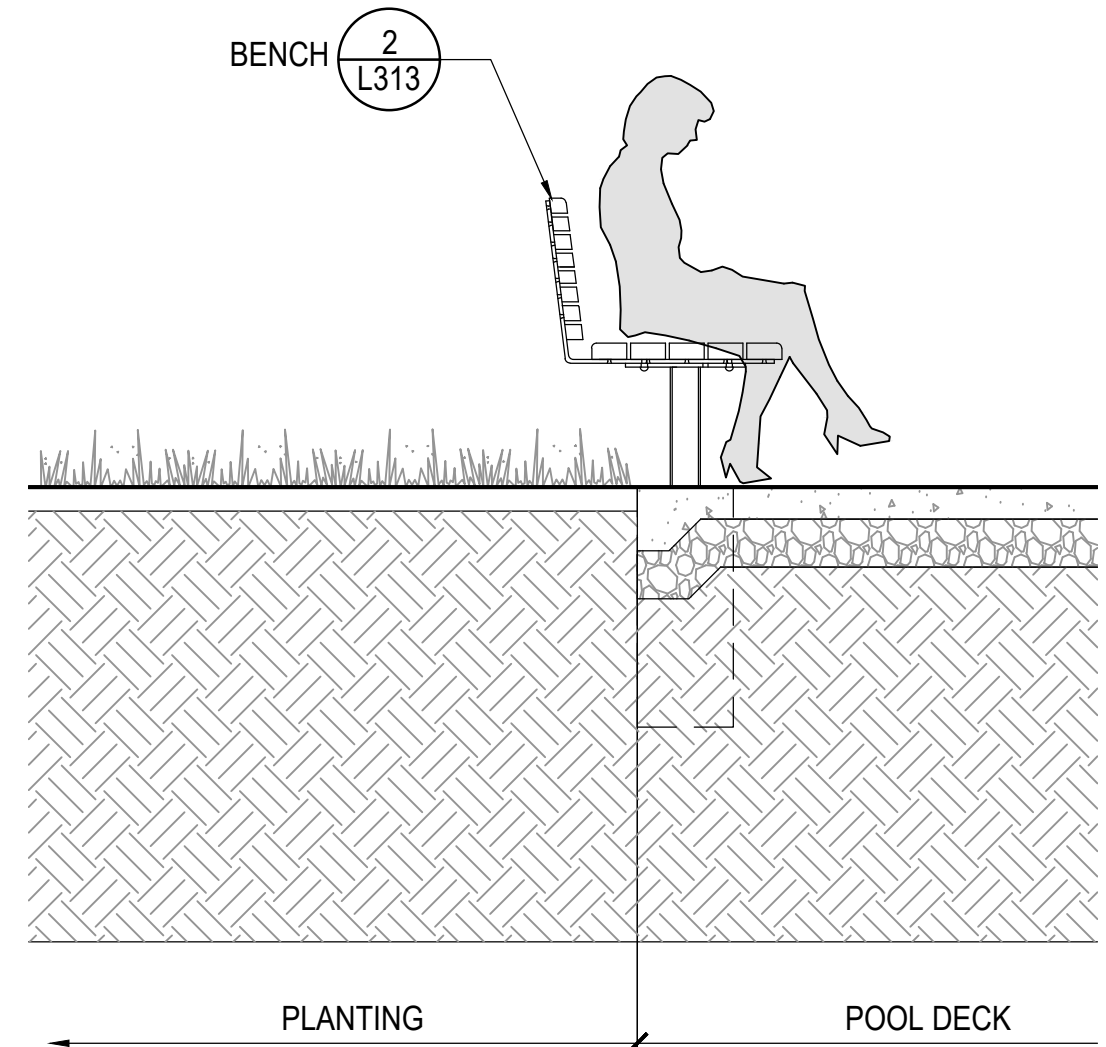
3 EDGE CONDITION 10  
1" = 2'-0"



2 EDGE CONDITION 11  
1" = 2'-0"



KEY PLAN  
1" = 40'-0"

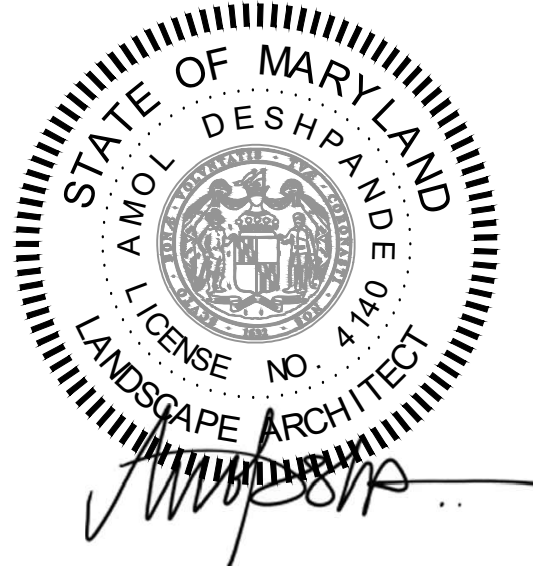


1 EDGE CONDITION 8  
1" = 2'-0"



LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



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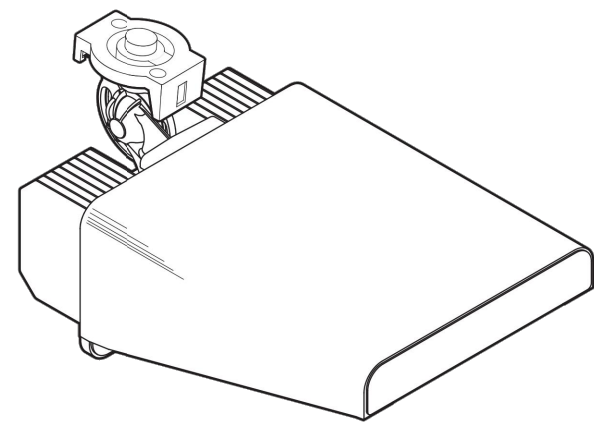
Sheet No. L317

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BID SET 02/23/2024



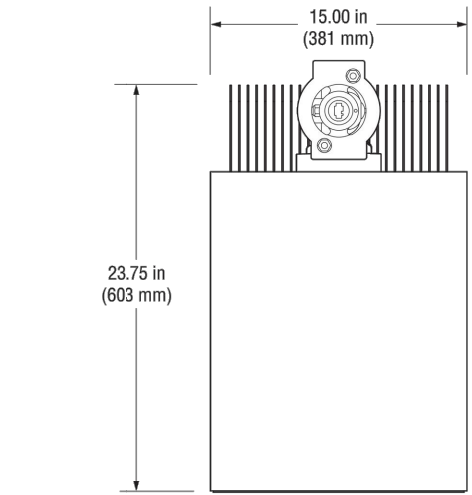
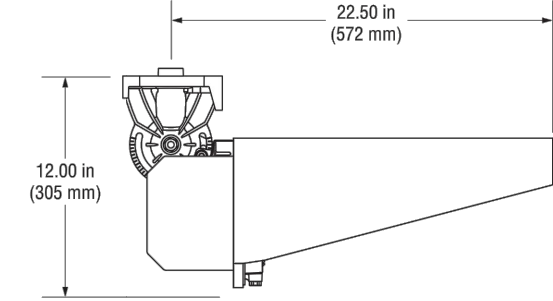
Datasheet: **TLC-LED-550 Luminaire and Driver**



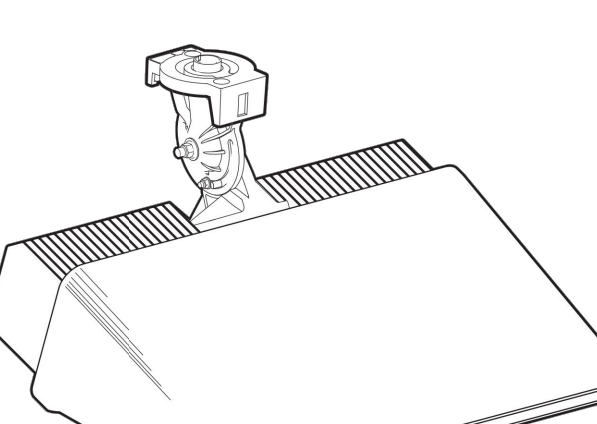
Luminaire Data	
Weight (luminaire)	25 lb (11 kg)
UL listing number	E338094
UL listed for USA / Canada	UL1598 CSA-C22.2 No.250.0
CE Declaration	LVD, EMC, RoHS
Ingress protection, luminaire	(pending) IP65
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL IEC ambient temperature rating, luminaire	(pending) 50°C (122°F)

Photometric Characteristics	
Projected lumen maintenance per IES TM-21-11	
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens <sup>1</sup>	67,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	7-step MacAdam Ellipse

Footnotes:  
1) Incorporates appropriate dirt depreciation factor for life of luminaire.



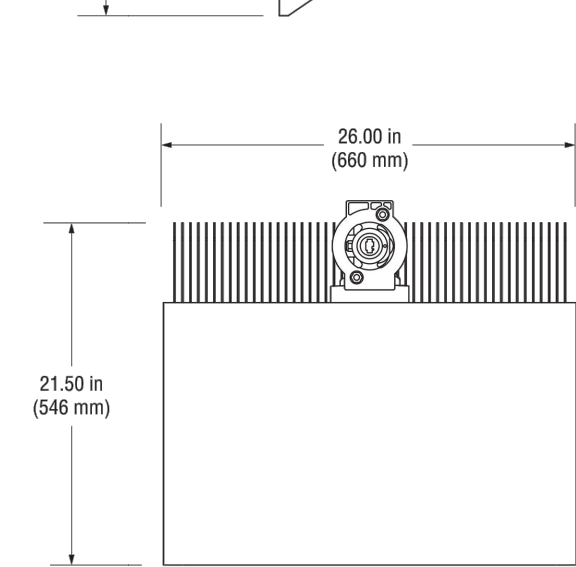
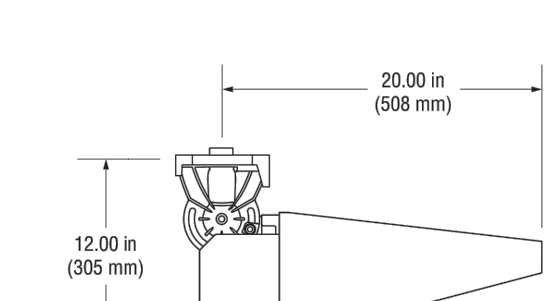
Datasheet: **TLC-LED-900 Luminaire and Driver**



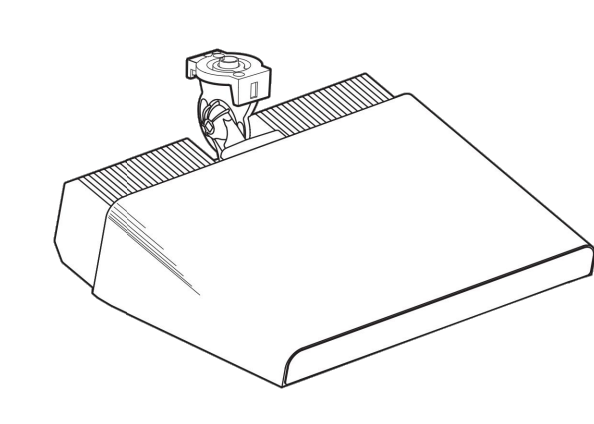
Luminaire Data	
Weight (luminaire)	40 lb (18 kg)
UL listing number	E338094
UL listed for USA / Canada	UL1598 CSA-C22.2 No.250.0
CE Declaration	LVD, EMC, RoHS
Ingress protection, luminaire	IP65
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL IEC ambient temperature rating, luminaire	50°C (122°F)

Photometric Characteristics	
Projected lumen maintenance per IES TM-21-11	
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens <sup>1</sup>	89,600
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	7-step MacAdam Ellipse

Footnotes:  
1) Incorporates appropriate dirt depreciation factor for life of luminaire.



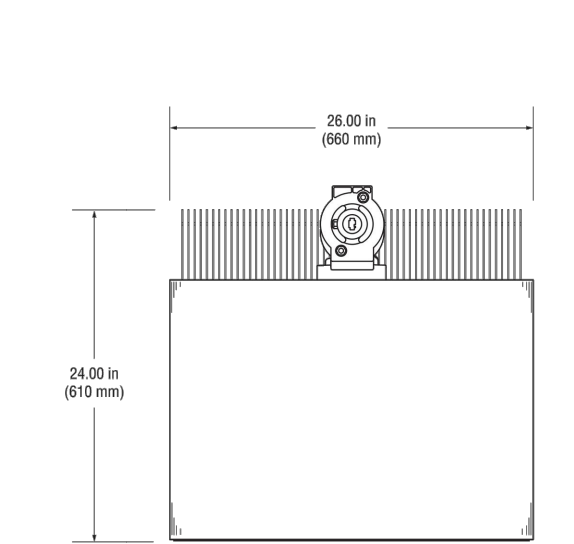
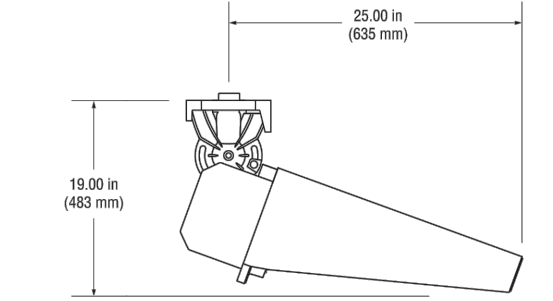
Datasheet: **TLC-LED-1200 Luminaire and Driver**



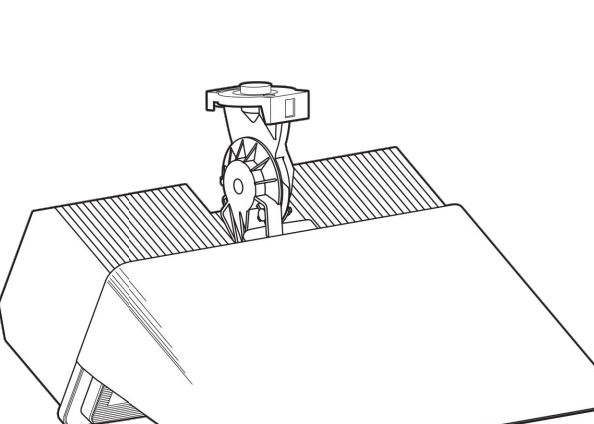
Luminaire Data	
Weight (luminaire)	45 lb (20 kg)
UL listing number	E338094
UL listed for USA / Canada	UL1598 CSA-C22.2 No.250.0
CE Declaration	LVD, EMC, RoHS
Ingress protection, luminaire	IP65
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL IEC ambient temperature rating, luminaire	50°C (122°F)

Photometric Characteristics	
Projected lumen maintenance per IES TM-21-11	
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens <sup>1</sup>	136,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	7-step MacAdam Ellipse

Footnotes:  
1) Incorporates appropriate dirt depreciation factor for life of luminaire.



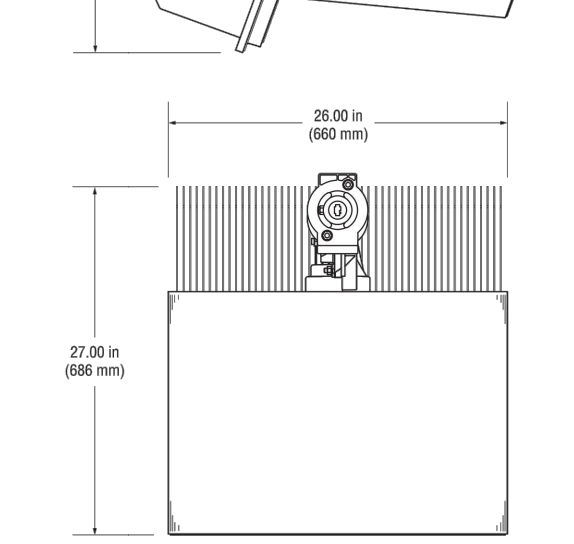
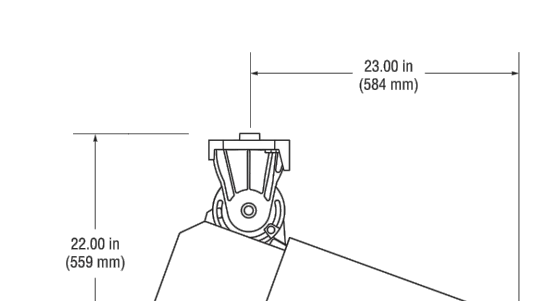
Datasheet: **TLC-LED-1500 Luminaire and Driver**



Luminaire Data	
Weight (luminaire)	67 lb (30 kg)
UL listing number	E338094
UL listed for USA / Canada	UL1598 CSA-C22.2 No.250.0
CE Declaration	LVD, EMC, RoHS
Ingress protection, luminaire	IP65
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL IEC ambient temperature rating, luminaire	50°C (122°F)

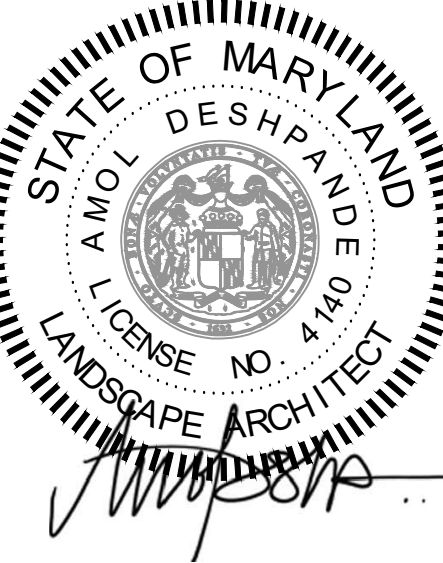
Photometric Characteristics	
Projected lumen maintenance per IES TM-21-11	
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens <sup>1</sup>	160,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	7-step MacAdam Ellipse

Footnotes:  
1) Incorporates appropriate dirt depreciation factor for life of luminaire.



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ARCHITECTURE**

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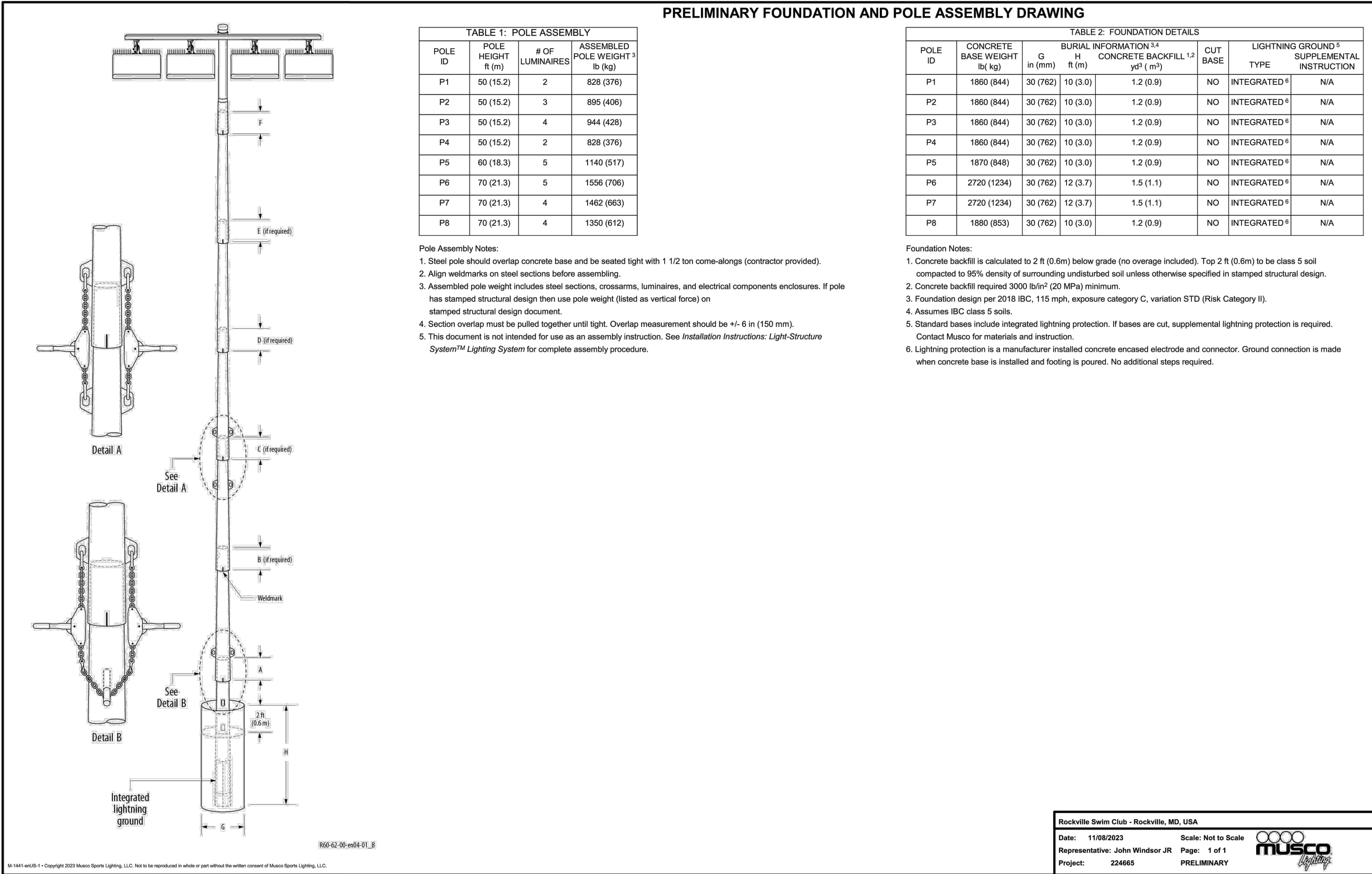
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Sheet No. **L318**



**1 POLE LIGHT**

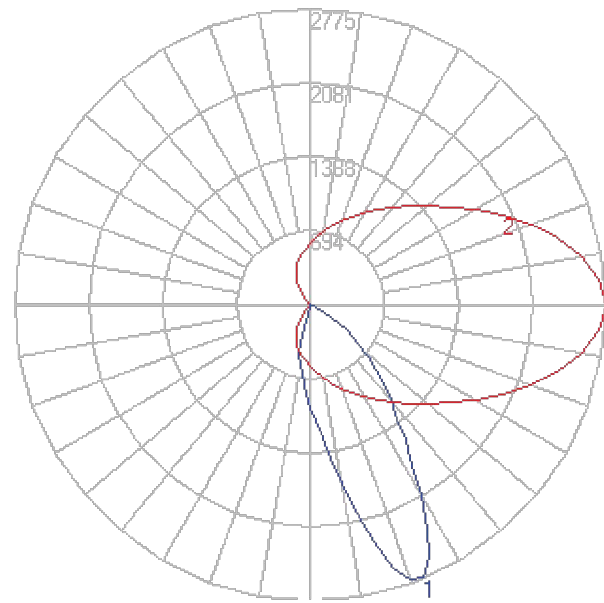
**NFC**



BEGA

Photometric Filename: 24502.ies

TEST: BE\_24502  
TEST LAB: BEGA  
DATE: 9/26/2016  
LUMINAIRE: 24 502  
LAMP: 14W LED



Characteristics

IES Classification	Type I
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1217
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	17
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	2775 (0H, 22.5V)
Max. Cd. (<90 Vert.)	2775 (0H, 22.5V)
Max. Cd. (At 90 Deg. Vert.)	1.8 (0.1%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	3.8 (0.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	582.0	N.A.	47.8
FM (30-60)	486.4	N.A.	40.0
FH (60-80)	7.0	N.A.	0.6
FVH (80-90)	0.7	N.A.	0.1
BL (0-30)	132.2	N.A.	10.9
BM (30-60)	6.8	N.A.	0.6
BH (60-80)	0.4	N.A.	0.0
BVH (80-90)	0.1	N.A.	0.0
UL (90-100)	0.4	N.A.	0.0
UH (100-180)	0.6	N.A.	0.1
Total	1216.6	N.A.	100.0

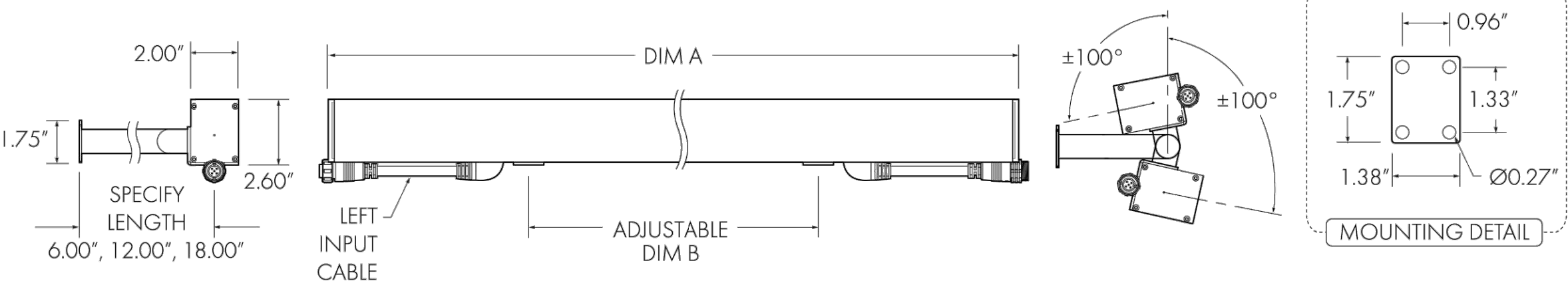
BUG Rating B1-U1-G0

PROFILE

OUTPUT	LO (3.5W/FT), MO (9.0 W/FT), HO (15.0 W/FT)
OPTICAL DISTRIBUTIONS	7° X 60°, 10° X 10°, 10° X 60°, 10° X 90°, 20° X 20°, 20° X 60°, 40° X 40°, 40° X 60°, 40° X 90°, 60° X 60°, 90° X 90° 80° X 80°, ASYMMETRIC
CRI	82 (OPTIONAL 90+)
CCT	22K, 27K, 30K, 35K, 40K, RED, GREEN, BLUE, AMBER, LFS
PERFORMANCE	UP TO 117530 PEAK CANDELA
VOLTAGE	120V OR 277V
POWER	INTEGRAL POWER SUPPLY
CONTROL	0-10V, DMX DIM, LUTRON HI-LUME 1% ECOSYSTEM
FIXTURE LENGTHS	12", 24", 36", 48" (NOMINAL LENGTHS)
WEIGHT	2.75 LB (1.25 KG) PER FOOT
HOUSING	PRECISION EXTRUDED ALUMINIUM
LENS	HIGH DENSITY TEMPERED GLASS
FINISH	HIGH DURABILITY POWDER COATING
OPERATING TEMP	-20° C TO 50° C
WARRANTY	5-YEAR LIMITED
LUMEN MAINTENANCE	75,000 HOURS
CERTIFICATION	ETL/cETL IP67, IK07, 5G/3G OPTION (Ansi C136.31 rated)



EXTENDED ARM, BACK MOUNT (EAB-X)

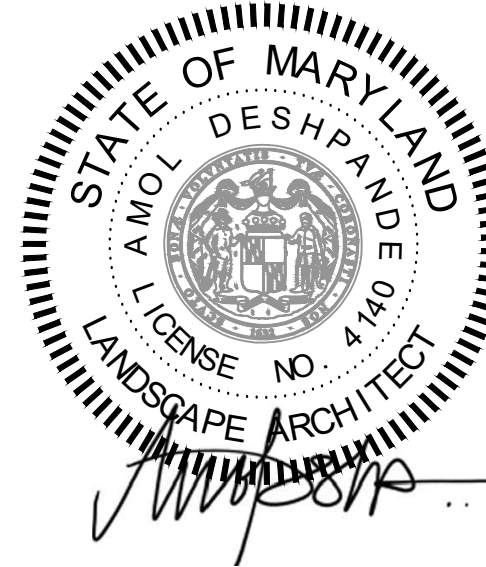


2 SHADE STRUCTURE LIGHT

3 ENTRY SIGN FLOODLIGHT

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NFC

L319



DESIGNATION	MANUFACTURER	MODEL	SIZE	FINISH	COLOR	QUANTITY	OTHER
DECKING							
POOL DECK COATING COLOR 1	SUNDECK 410.610.9401	ACRYLIC SPRAY TEXTURE OVERLAY	REFER TO PLAN	CLASSIC TEXTURE	BONE WHITE	REFER TO PLAN	PROVIDE SHOP DRAWING, SAMPLE AND MOCKUP FOR REVIEW AND APPROVAL.
POOL DECK COATING COLOR 2					PEKING BLUE		
POOL DECK COATING COLOR 3					NAVY BLUE		
FURNISHINGS							
TRASH RECEPTACLE	ANOVA OUTDOOR FURNISHINGS 571.325.4944	LEX70-EXPOSITION 70 GALLON TRASH/ RECYCLER, SIDE DOORS	70 GAL 7" X 40" X 31"	POWDERCOAT	TEXTURED PEWTER	4	SUBMIT PRODUCT INFORMATION FOR REVIEW AND APPROVAL
RECYCLING RECEPTACLE						4	SUBMIT PRODUCT INFORMATION FOR REVIEW AND APPROVAL
BIKE RACK	VICTOR STANLEY, INC. 301.855.8300	BRHS-101	MFR'S STANDARD	POWDERCOAT	BLACK	4	SUBMIT PRODUCT INFORMATION FOR REVIEW AND APPROVAL
BIKE LOCKER	MADRAX 608.849.1080	ML1-1	75" X 39" X 46"	POWDERCOAT	PLATINUM	2	BIKE PERFORATED DOOR. PADLOCK HANDLE. SUBMIT PRODUCT INFORMATION FOR REVIEW AND APPROVAL
CURVED BENCH	SITECRAFT 800.937.0203	CIRCULAR WITH BACK – YB	SEE PLAN	FRAME: POWDERCOAT SLATS: GREENWOOD	FRAME: BLACK SLATS: WEATHERED WOOD	2	SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL
STRAIGHT BACKLESS BENCH		STRAIGHT WITHOUT BACK	10' X 2' X 1.5'			8	SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL
BENCH TOP	MAGLIN 800.716.5506	OGDEN	SEE PLAN	FRAME: POWDERCOAT SLATS: THERMALLY MODIFIED ASH	FRAME: BLACK	2	SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL
DRINKING WATER FOUNTAIN TYPE 1	MOST DEPENDABLE FOUNTAINS, INC 901.867.0039	440 SMSSFA WITH FOOT SPRAY AND HOSE BIB	MFR'S STANDARD	POWDERCOAT	TEXTURED SAPPHIRE	4	SUBMIT PRODUCT INFORMATION FOR REVIEW AND APPROVAL
DRINKING WATER FOUNTAIN TYPE 2		10150 SMSS WITH FOOT SPRAY AND HOSE BIB	MFR'S STANDARD	POWDERCOAT	TEXTURED SAPPHIRE	2	SUBMIT PRODUCT INFORMATION FOR REVIEW AND APPROVAL
FENCE							
CHAINLINK FENCE AND GATE	ARMOR FENCE 703.361.1141	CHAIN LINK POOL FENCING	7' H AND 4' H, SEE PLAN	POWDERCOAT	BLACK	REFER TO LSG AND CAA PLANS	SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL
DECORATIVE POOL FENCE AND GATE	AMERISTAR 800.321.8724	MODEL: MONTAGE PLUS PPP PICKET STYLE: MAJESTIC	7' H AND 4' H, SEE PLAN	POWDERCOAT	BLACK	REFER TO PLAN	SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL
STRUCTURE							
SHADE STRUCTURE - TYPE 1	TENSOSHADE 210.888.0128	AZTEC	FABRIC: 14' X 26' X 9' POSTS: PER MFR	FABRIC: MFR'S STANDARD POSTS: POWDERCOAT MATTE	FABRIC: TURQUOISE AND AQUATIC BLUE POSTS: WINDOW GREY (RAL 7040)	4	SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL. PROVIDE FABRIC SAMPLES FOR REVIEW AND APPROVAL.
SHADE STRUCTURE - TYPE 2		GIZA	FABRIC: 14' X 26' X 9' POSTS: PER MFR	FABRIC: MFR'S STANDARD POSTS: POWDERCOAT MATTE	FABRIC: TURQUOISE, AQUATIC BLUE POSTS: WINDOW GREY (RAL 7040)	3	
SHADE STRUCTURE - TYPE 3		MANTA	FABRIC: REFER TO PLAN POSTS: PER MFR	FABRIC: MFR'S STANDARD POSTS: POWDERCOAT MATTE	FABRIC: TURQUOISE, AQUATIC BLUE POSTS: WINDOW GREY (RAL 7040)	1	
PAVILION	ROMTEC 541.496.3541	CUSTOM	36' X 26' X 9'	SUPPORT STRUCTURE: POWDERCOAT MATTE	METAL ROOF: BLUE (RAL 5008) SUPPORT STRUCTURE: WINDOW GREY (RAL 7040)	1	
MECHANICAL ROOM GARAGE DOOR	CORNELL IRON DOORS 877.640.8825	ESD10	9'11" x 11'9" (FIELD VERIFY SIZE)	GALVANIZED STEEL WITH GALVANEX COATING SYSTEM	WHITE	1	PROVIDE MOTORIZED CONTROL. SUBMIT SHOP DRAWINGS AND PRODUCT MATERIAL FOR REVIEW AND APPROVAL.
CHEMICAL STORAGE SHED	TUFF SHED 443.470.8859	TAHOE SERIES SKYLINE	6' X 10' X 8'-3"	EXTERIOR PAINT	ROOF: GREY SHINGLES EXTERIOR: WINDOW GREY (RAL 7040)	1	SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL. NO EXPOSED METAL FRAMES OR FASTENER AS THE CHEMICAL ARE CORROSIVE IN NATURE.
LIGHTING							
POLE LIGHT	MUSCO 800.825.6020	TLC-LED-550, TLC-LED-900, TLC-LED-1200, TLC-LED-1500	PER PLAN	GALVANIZED STEEL	N/A	REFER TO PLAN	REFER TO PLAN FOR CLARIFICATION ON BASE BID AND ADD ALT. SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL.
SHADE STRUCTURE LIGHT	BEGA 805.684.0533	24502	4-3/8" X 1-1/2" X 4-5/8"	POWDERCOAT MATTE	WINDOW GREY (RAL 7040)	REFER TO PLAN	SUBMIT SHOP DRAWING AND SAMPLE FOR REVIEW AND APPROVAL. MATCH SHADE STRUCTURE POLES.
ENTRY SIGN FLOODLIGHT	INSIGHT LIGHTING 505.345.0888	MEDLEY EXTERIOR	2.6" X 2" X 24"	TEXTURED SANDSTONE	TEXTURED SANDSTONE	3	PROVIDE SHOP DRAWING, SAMPLE FOR REVIEW AND APPROVAL.
ENTRY SIGN FLOODLIGHT MOUNT		EAB-X EXTENDED ARM, BACK	12"	TEXTURED SANDSTONE	TEXTURED SANDSTONE	3	PROVIDE SHOP DRAWING, SAMPLE FOR REVIEW AND APPROVAL.
ENTRY SIGN LOGO LIGHT	INTERLUX 410-381-1497	RUBBER 3D	PER PLAN	WHITE FINISH	N/A	REFER TO PLAN	SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL
SIGNAGE							
TILE - OPTION 1	DALTILE 800.449.3591		3/4" X 3/4" X 1/8"	VITREOUS GLASS	TBD	REFER TO PLAN	CONTRACTOR TO CHOOSE BETWEEN THE TWO MANUFACTURERS AND PROVIDE SHOP DRAWINGS AND SAMPLES FOR REVIEW AND APPROVAL. PROVIDE A 4'X4' MOCKUP FOR REVIEW AND APPROVAL.
TILE - OPTION 2	ARTAIC 617.418.1928	SPLASH COLLECTION	3/4" X 3/4" X 1/8"	VITREOUS GLASS	TBD	REFER TO PLAN	
LOGO	BUNTING GRAPHICS, INC. 412.820.2200	CUSTOM LOGO	CUSTOM	FRAME: LIGHT BRUSHED ALUMINUM LOGO: FROSTED ACRYLIC	TBD	REFER TO PLAN	
STONE							
ROCK CURB	HANOVER 800.426.4242	ROCKCURB STRAIGHT	3' X 1/2' X 1-1/2'	BULLNOSE PROFILE	LIMESTONE GRAY	REFER TO PLAN	SUBMIT PRODUCT INFORMATION
# 57 STONE	LUCK STONE 703.729.2800	AASHTO #57	3" DEPTH	N/A	GREY	REFER TO PLAN	SUBMIT PRODUCT INFORMATION
RIVER ROCK STONES	SAUNDERS LANDSCAPE SUPPLY 301.640.5688	RIVER ROCK	3" DEPTH, 2" TO 3" DIA. STONES	N/A	GREY	REFER TO PLAN	SUBMIT SAMPLES FOR REVIEW AND APPROVAL.
STONE LANDSCAPE FEATURE	COLDSPRING 800.551.7502 OR APPROVED EQUAL	GRANITE LANDSCAPE TREADS	60" X 15" X 10"	THERMAL TOP SURFACE - SPLIT EDGES	ROCKVILLE WHITE	5	SUBMIT PRODUCT INFORMATION
MISC							
METAL EDGING	PERMALOC 616.399.9600	CLEANLINE	PER PLAN	POWDERCOAT	BLACK	REFER TO PLAN	PROVIDE PRODUCT LITERATURE AND SAMPLE FOR REVIEW AND APPROVAL.
FORMLINER	SCOTT SYSTEM 518.886.3940	URETHANE FORMLINER TEXTURES #119 SANDBLAST #1	SEE PLAN	N/A	N/A	REFER TO PLAN	PROVIDE SHOP DRAWING AND SAMPLE FOR REVIEW AND APPROVAL.

NOTES:

1.

REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2.

NAMED PRODUCTS ARE BASIS-OF-DESIGN. ALTERNATE PRODUCTS DOCUMENTED TO BE MEET OR EXCEED PERFORMANCE CRITERIA ARE ACCEPTABLE UPON WRITTEN APPROVAL. REFER TO SPECIFICATIONS FOR SUBSTITUTION REQUIREMENTS.
3.

ALL IPE AND TROPICAL HARDWOOD MATERIALS TO BE FSC CERTIFIED WOOD.

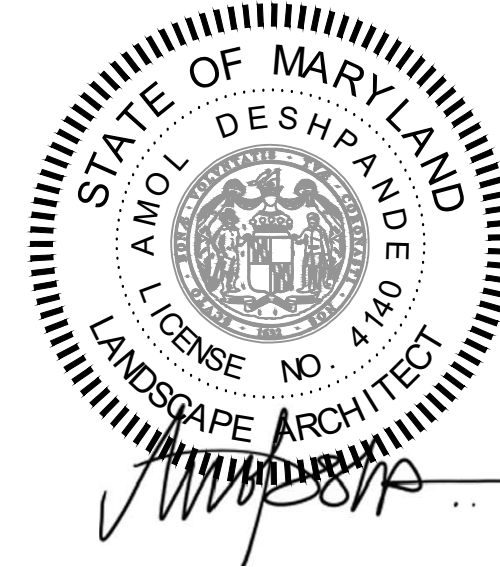
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PRODUCT SCHEDULE

NFC

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

PRODUCT  
SCHEDULE

BID SET

1	65% CONSTRUCTION DOCUMENT 06/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	BUILDING PERMIT SET 12/08/2023
5	HD COMMENT RESPONSE 01/08/2024
6	BID SET 02/01/2024
7	BUILDING PERMIT SET 02/06/2024
8	BUILDING PERMIT SET 02/20/2024
9	BID SET 02/23/2024

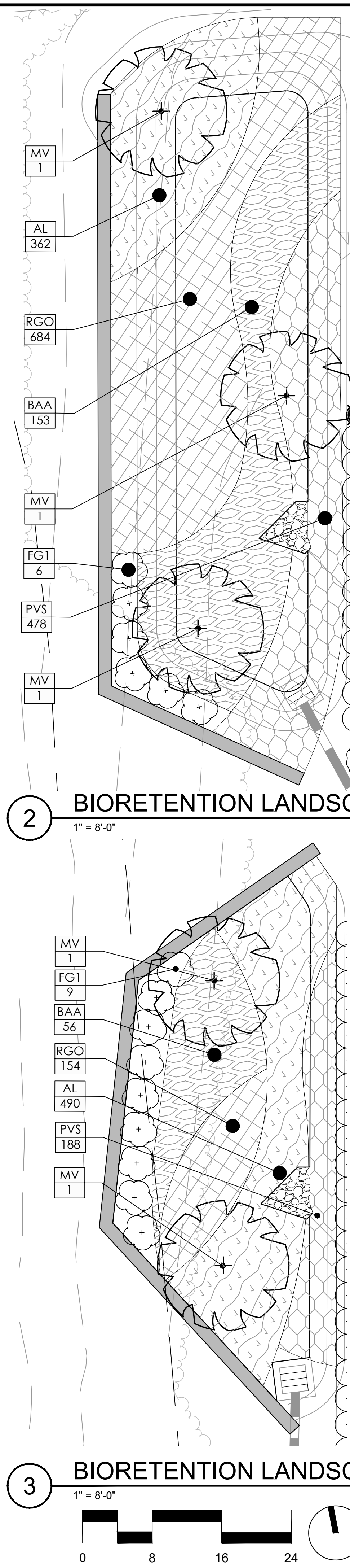
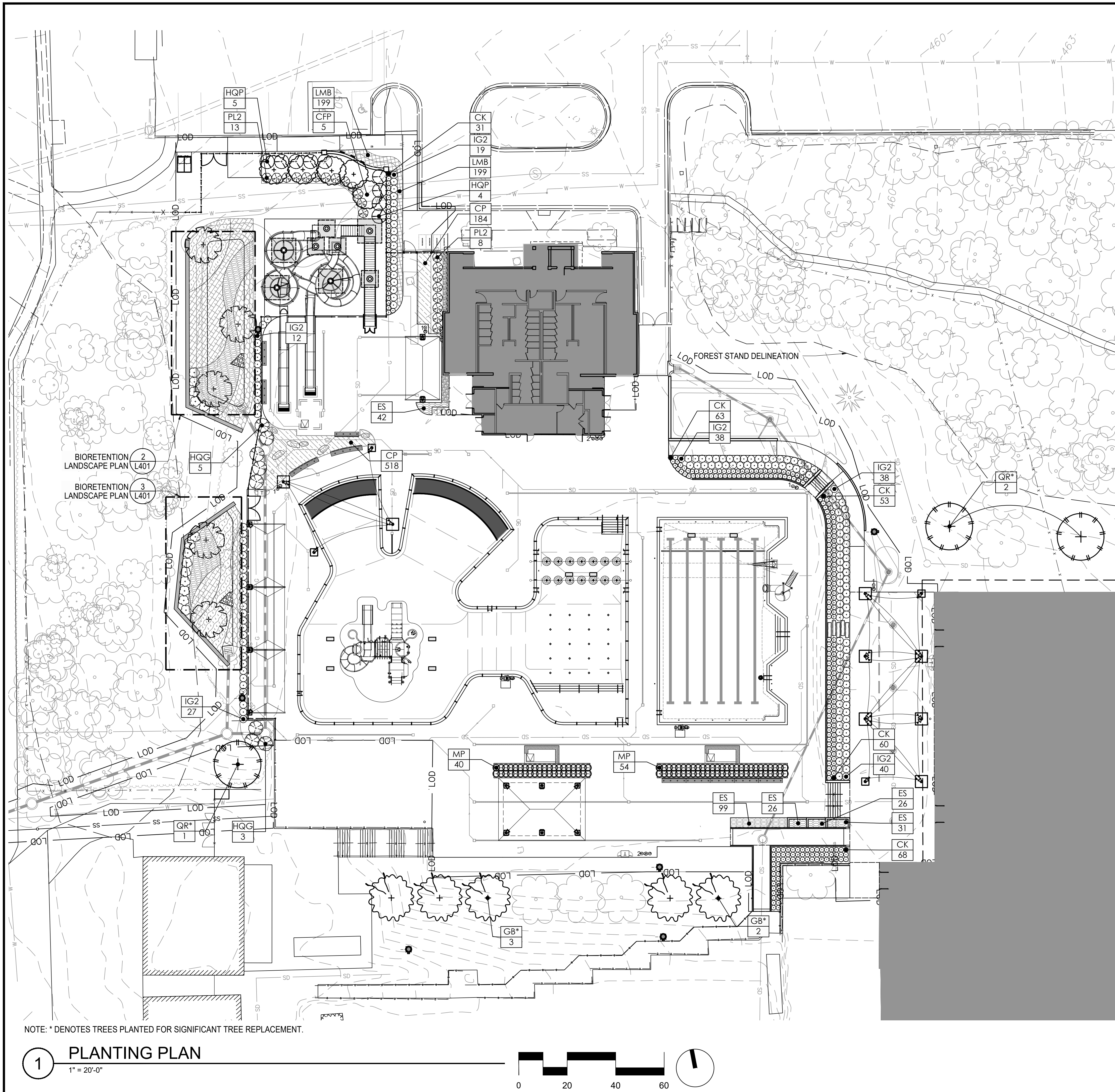
No.	Description	Date
Revisions		

Project Number: 22.00036.00  
Scale: AS SHOWN  
Drawn By: AD, HW, BS  
Checked By: AD  
Date: 01/08/2024

Sheet No. L320

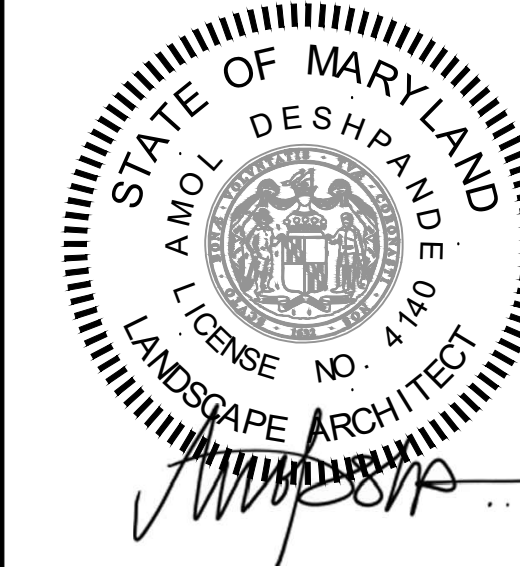
BID SET 02/23/2024





LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

PLANTING  
PLAN

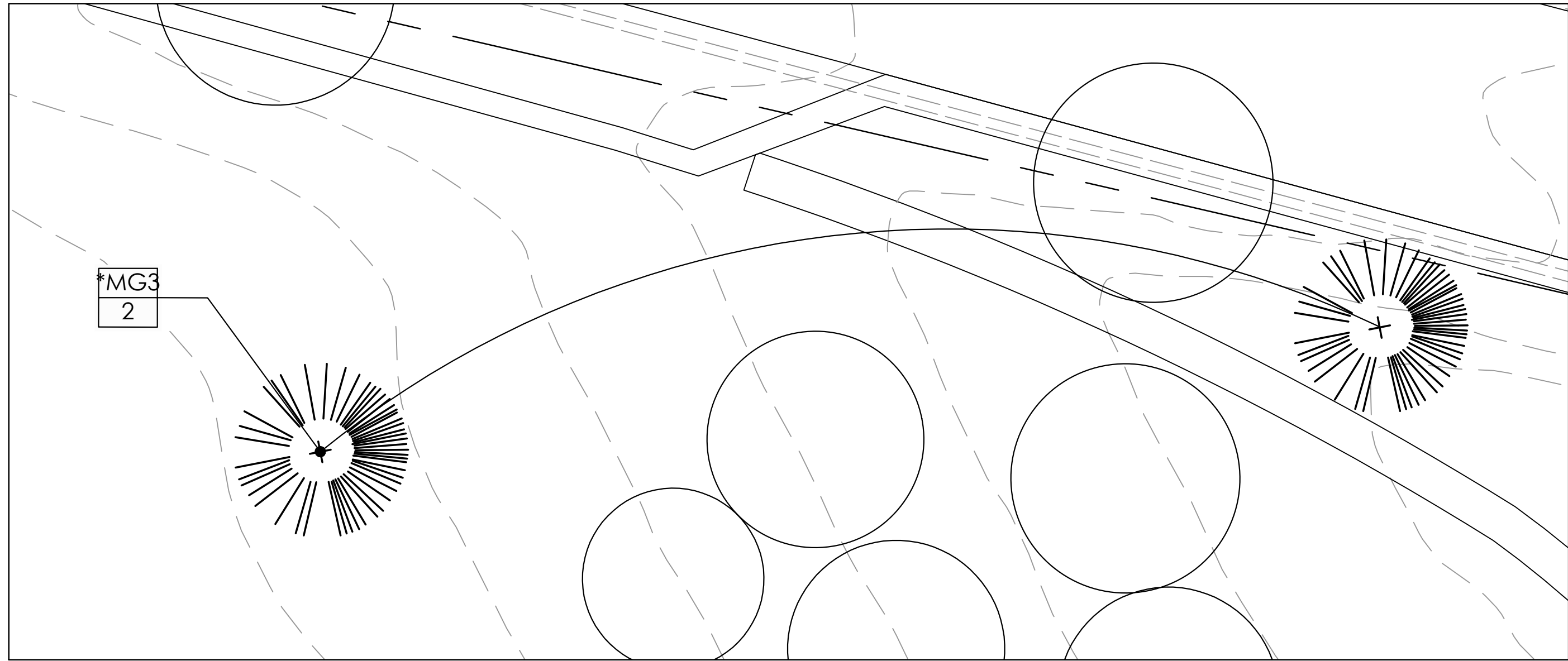
BID SET

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8	BUILDING PERMIT SET 02/20/2024
9	BID SET 02/23/2024

No.	Description	Date
Revisions		
Project Number: 22.00036.00		
Scale:	AS SHOWN	
Drawn By:	AD, HW, BS	
Checked By:	AD	
Date:	01/08/2024	
Sheet No.	L401	

BID SET 02/23/2024

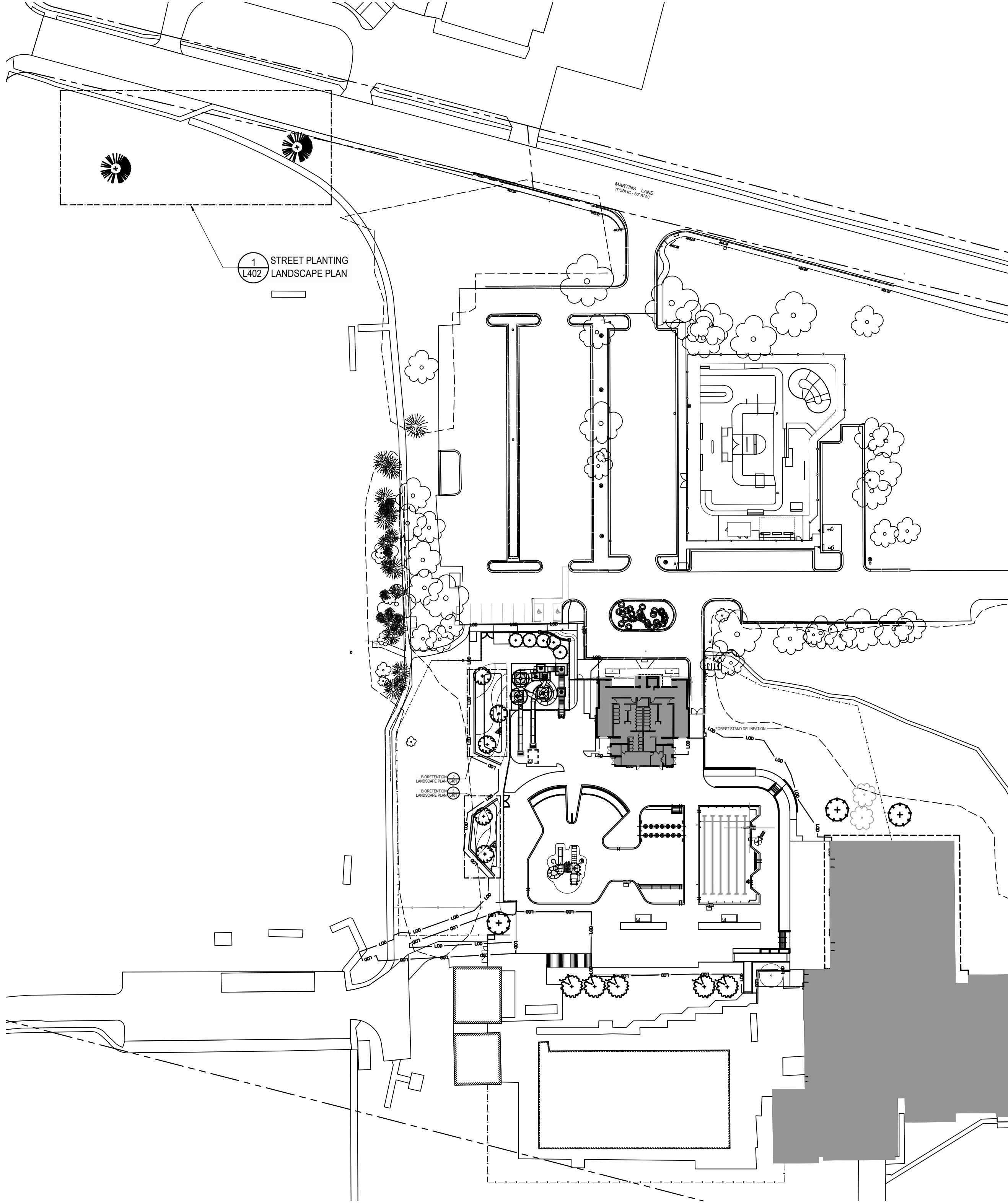




NOTE:  
FINAL TREE LOCATIONS TO BE COORDINATED IN FIELD WITH CITY ARBORIST TO AVOID EXISTING TREE ROOTS.

LEGEND  
○ EXISTING TREES

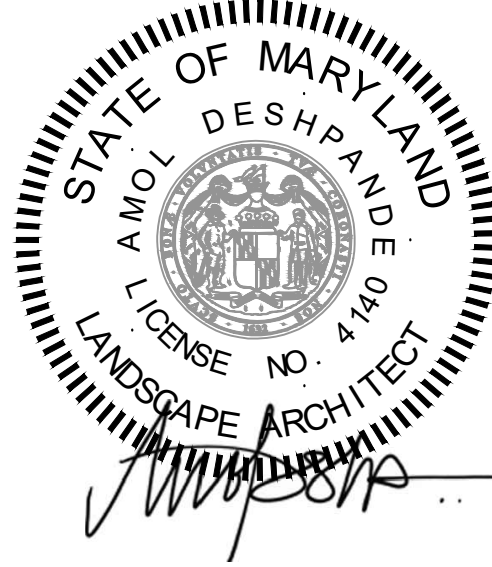
1 STREET PLANTING LANDSCAPE PLAN  
1" = 16'-0"  
0 16 32 48



KEY PLAN  
3/16" = 1'-0"

LSG LANDSCAPE  
ARCHITECTURE

8240 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

PLANTING  
PLAN

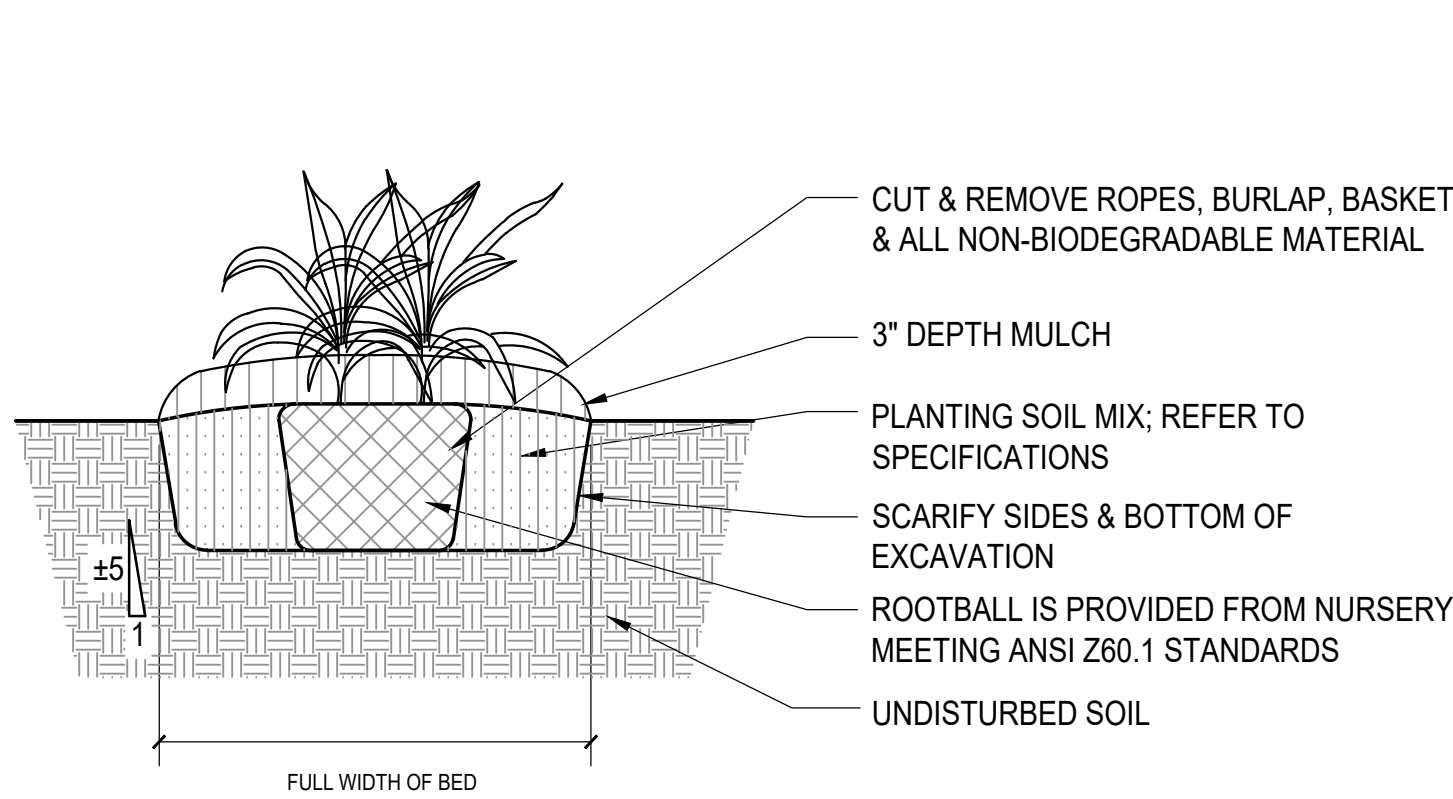
BID SET

1	65% CONSTRUCTION DOCUMENT	06/25/2023
2	80% CONSTRUCTION DOCUMENT	08/18/2023
3	95% CONSTRUCTION DOCUMENT	10/10/2023
4	BUILDING PERMIT SET	12/08/2023
5	HD COMMENT RESPONSE	01/08/2024
6	BID SET	02/01/2024
7	BUILDING PERMIT SET	02/06/2024
8	BUILDING PERMIT SET	02/20/2024
9	BID SET	02/23/2024

No.	Description	Date
Revisions		
Project Number: 22.00036.00		
Scale: AS SHOWN		
Drawn By: AD, HW, BS		
Checked By: AD		
Date: 01/08/2024		
Sheet No. L402		

NFC

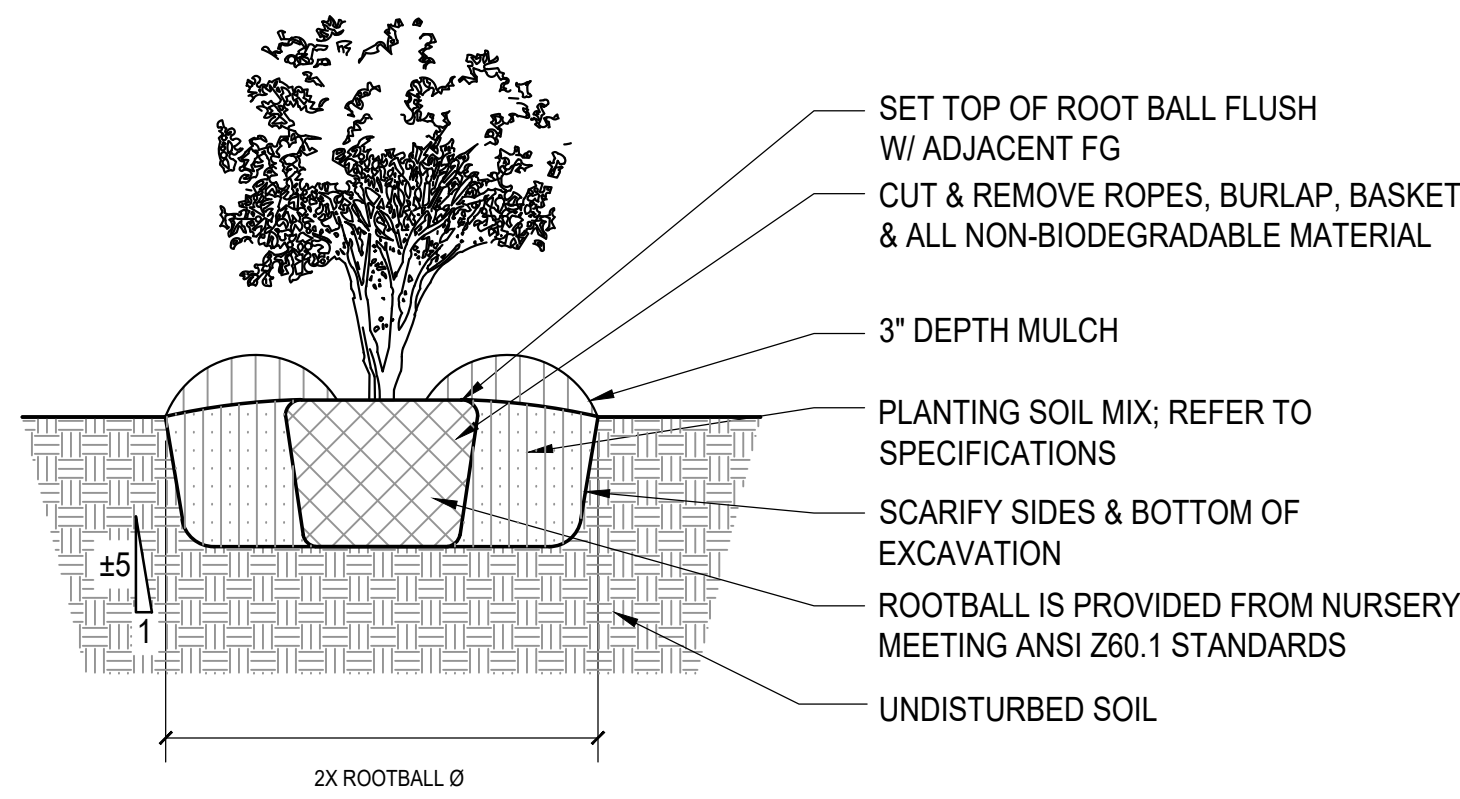




- NOTES:
- FOR CONTAINER-GROWN MATERIAL, REMOVE CONTAINER WITHOUT CRACKING ROOT BALL AND MAKE (3) 1" DEEP VERTICAL CUTS, EQUALLY SPACED ABOUT ROOT BALL.

## GROUNDCOVER PLANTING

1" = 1'-0"



- NOTES:
- FOR CONTAINER-GROWN MATERIAL, REMOVE CONTAINER WITHOUT CRACKING ROOT BALL AND MAKE (3) 1" DEEP VERTICAL CUTS, EQUALLY SPACED ABOUT ROOT BALL.

## SHRUB PLANTING

1" = 1'-0"

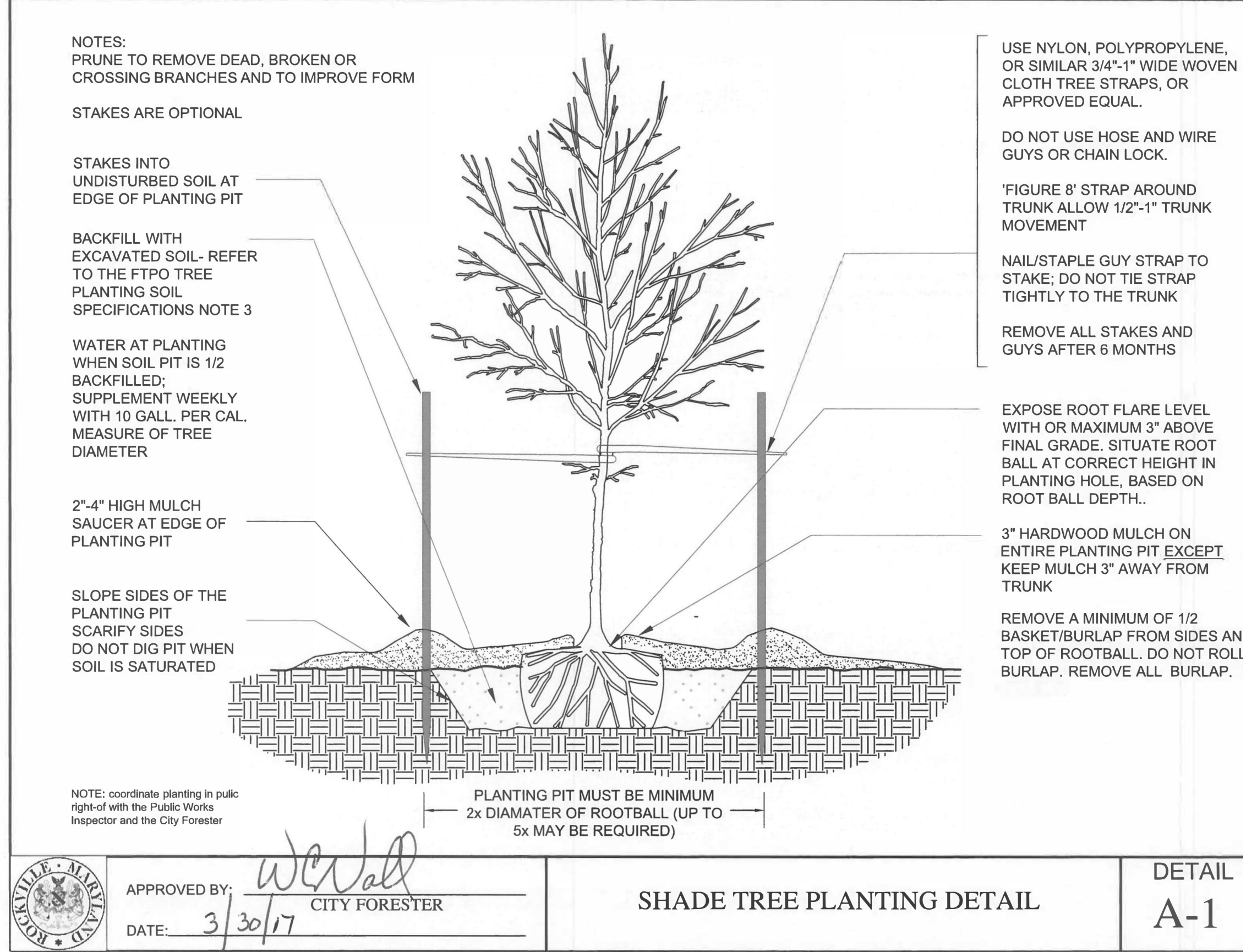
### PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
<strong>CANOPY TREES</strong>							
QR*	3	QUERCUS RUBRA	RED OAK	2.5" CAL	B&B	AS SHOWN	* SIGNIFICANT TREE REPLACEMENT
GB*	5	GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD MAIDENHAIR TREE	2.5" CAL	B&B	AS SHOWN	* SIGNIFICANT TREE REPLACEMENT
<strong>EVERGREEN TREES</strong>							
MG3	2	METASEQUOIA GLYPTOSTROBIOIDES	DAWN REDWOOD	6-8' HT	B&B	AS SHOWN	
<strong>ORNAMENTAL TREES</strong>							
CFP	5	CORNUS FLORIDA 'PINK SACHET'	PINK SACHET DOGWOOD	2.5" CAL	B&B	AS SHOWN	FULL AND WELL BRANCHED AND MATCHING
MV	5	MAGNOLIA VIRGINIANA 'MOONGLOW'	SWEETBAY MAGNOLIA	8-10' HT.	B&B	AS SHOWN	FULL, MULTI-STEM, 3 STEMS
<strong>SHRUBS</strong>							
FG1	15	FOTHERGILLA GARDENII	DWARF FOTHERGILLA	24" - 30" HT.	CONT.	36" O.C.	HEAVY AND FULL
HQP	9	HYDRANGEA PANICULATA 'PHANTOM'	PHANTOM PANICLE HYDRANGEA	30" HT.	CONT.	72" O.C.	HEAVY AND FULL
HQG	8	HYDRANGEA QUERCIFOLIA 'GATSBY PINK'	GATSBY PINK OAKLEAF HYDRANGEA	30" HT.	CONT.	72" O.C.	HEAVY AND FULL
IG2	176	ILEX GLABRA 'STRONGBOX'	INKBERRY HOLLY	24" - 30" HT.	CONT.	36" O.C.	HEAVY AND FULL
PL2	21	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKENS LAUREL	30-36"HT	CONT.	48" OC	HEAVY AND FULL
<strong>GRASSES</strong>							
CK	275	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	3 GAL.	CONT.	24"OC	HEAVY AND FULL
MP	94	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	3 GAL.	CONT.	24" OC	HEAVY AND FULL
<strong>GROUND COVERS</strong>							
LMB	236 SF	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILYTURF	1 GAL.	CONT.	12" OC	HEAVY AND FULL
<strong>SWM</strong>							
AL	819 SF	ASTER LAEVIS	SMOOTH ASTER	1 GAL.	CONT.	12" OC	HEAVY AND FULL
BAA	799 SF	BAPTISIA AUSTRALIS	FALSE INDIGO	1 GAL.	CONT.	24" O.C.	HEAVY AND FULL
PVS	641 SF	PANICUM VIRGATUM 'SHENANDOAH'	SWITCH GRASS	1 GAL.	CONT.	12" OC	HEAVY AND FULL
RGO	806 SF	RUDBECKIA FULGIDA VAR. FULGIDA	BLACK EYED SUSAN	1 GAL.	CONT.	12" OC	HEAVY AND FULL
<strong>GRASSES</strong>							
CP	674 SF	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	1 GAL.	CONT.	12" OC	HEAVY AND FULL
ES	212 SF	ERAGROSTIS SPECTABILIS	PURPLE LOVEGRASS	1 GAL.	CONT.	12" OC	HEAVY AND FULL

- NOTES:
- REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: SOIL ANALYSES AND AMENDMENT RECOMMENDATIONS; SOURCE LIST AND PHOTOGRAPHS FOR INITIAL SELECTION; PHOTOGRAPHS FOR VERIFICATION.
  - REFER TO SPECIFICATIONS FOR TREE TAGGING REQUIREMENTS.
  - REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  - MEET REQUIREMENTS OF ANSI Z60.1, LATEST ADDITION, FOR ALL PLANT MATERIAL.
  - QUANTITIES GIVEN ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR MEETING THE DESIGN INTENT, AS INDICATED ON PLANTING PLANS.
  - ALL PLANTS ARE TO BE HEALTHY, FULL, BALANCED, AND EXCEPTIONALLY HEAVY.
  - PROVIDE TURF PER SPECIFICATIONS IN ALL DISTURBED AREAS NOT OTHERWISE PLANTED OR PAVED.
  - SIGNIFICANT TREE REPLACEMENT:
    - 2 TREES REMOVED
    - 5 TREES REQUIRED FOR REPLACEMENT
    - 5 SHADE TREES PROVIDED FOR REPLACEMENT
  - SEE SHEETS LJ1-8 FOR MORE INFORMATION ON MINIMUM TREE COVER AND FOREST CONSERVATION.

## PLANTING SCHEDULE

NTS



- NOTES:
- PRUNE TO REMOVE DEAD, BROKEN OR CROSSING BRANCHES AND TO IMPROVE FORM.

STAKES ARE OPTIONAL

STAKES INTO UNDISTURBED SOIL AT EDGE OF PLANTING PIT

BACKFILL WITH EXCAVATED SOIL. REFER TO THE FTPO TREE PLANTING SOIL SPECIFICATIONS NOTE 3

WATER AT PLANTING WHEN SOIL PIT IS 1/2 BACKFILLED; SUPPLEMENT WEEKLY WITH 10 GALL. PER CAL. MEASURE OF TREE DIAMETER

2"-4" HIGH MULCH SAUCER AT EDGE OF PLANTING PIT

SLOPE SIDES OF THE PLANTING PIT SCARIFY SIDES DO NOT DIG PIT WHEN SOIL IS SATURATED

NOTE: coordinate planting in public right-of-way with the Public Works Inspector and the City Forester

APPROVED BY: *W. J. Wall* CITY FORESTER  
DATE: 3/30/17

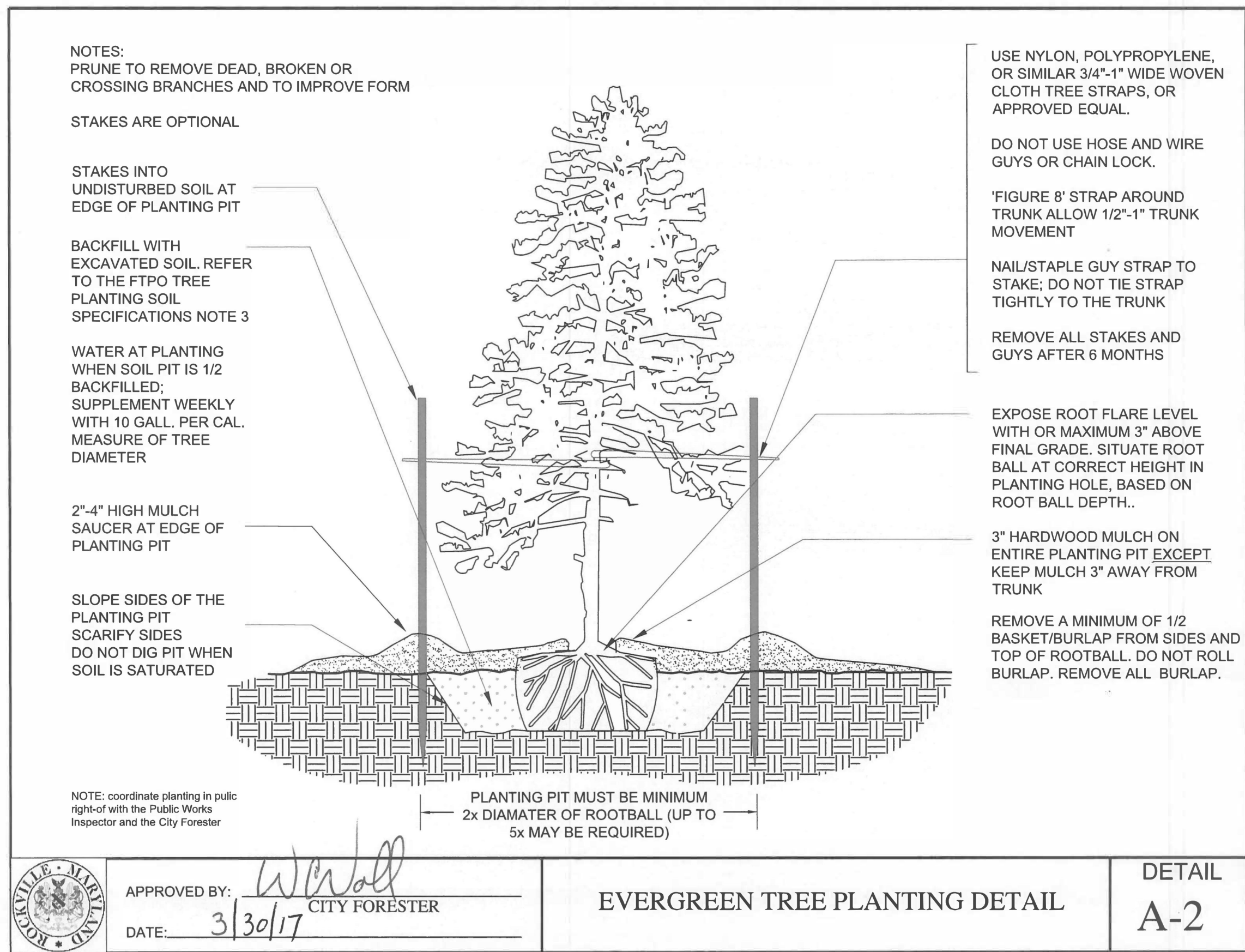
### SHADE TREE PLANTING DETAIL

DETAIL  
A-1

June 2018

## SHADE TREE PLANTING

1/2" = 1'-0"



- NOTES:
- PRUNE TO REMOVE DEAD, BROKEN OR CROSSING BRANCHES AND TO IMPROVE FORM.

STAKES ARE OPTIONAL

STAKES INTO UNDISTURBED SOIL AT EDGE OF PLANTING PIT

BACKFILL WITH EXCAVATED SOIL. REFER TO THE FTPO TREE PLANTING SOIL SPECIFICATIONS NOTE 3

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2"-4" HIGH MULCH SAUCER AT EDGE OF PLANTING PIT

SLOPE SIDES OF THE PLANTING PIT SCARIFY SIDES DO NOT DIG PIT WHEN SOIL IS SATURATED

NOTE: coordinate planting in public right-of-way with the Public Works Inspector and the City Forester

APPROVED BY: *W. J. Wall* CITY FORESTER  
DATE: 3/30/17

### EVERGREEN TREE PLANTING DETAIL

DETAIL  
A-2

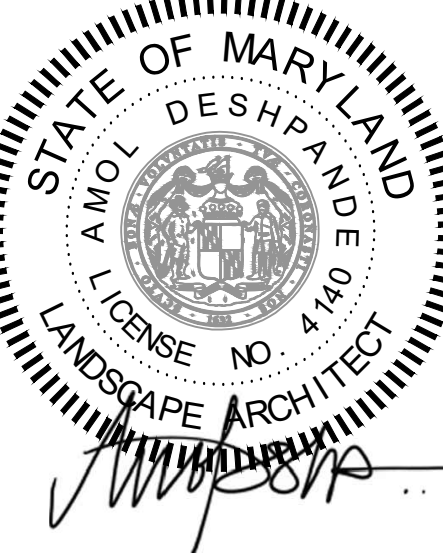
June 2018

## EVERGREEN TREE PLANTING

1/2" = 1'-0"

### LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

## OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

### PLANTING DETAILS

### BID SET

1	65% CONSTRUCTION DOCUMENT 06/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	BUILDING PERMIT SET 12/08/2023
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6	BID SET 02/01/2024
7	BUILDING PERMIT SET 02/06/2024
8	BUILDING PERMIT SET 02/20/2024
9	BID SET 02/23/2024

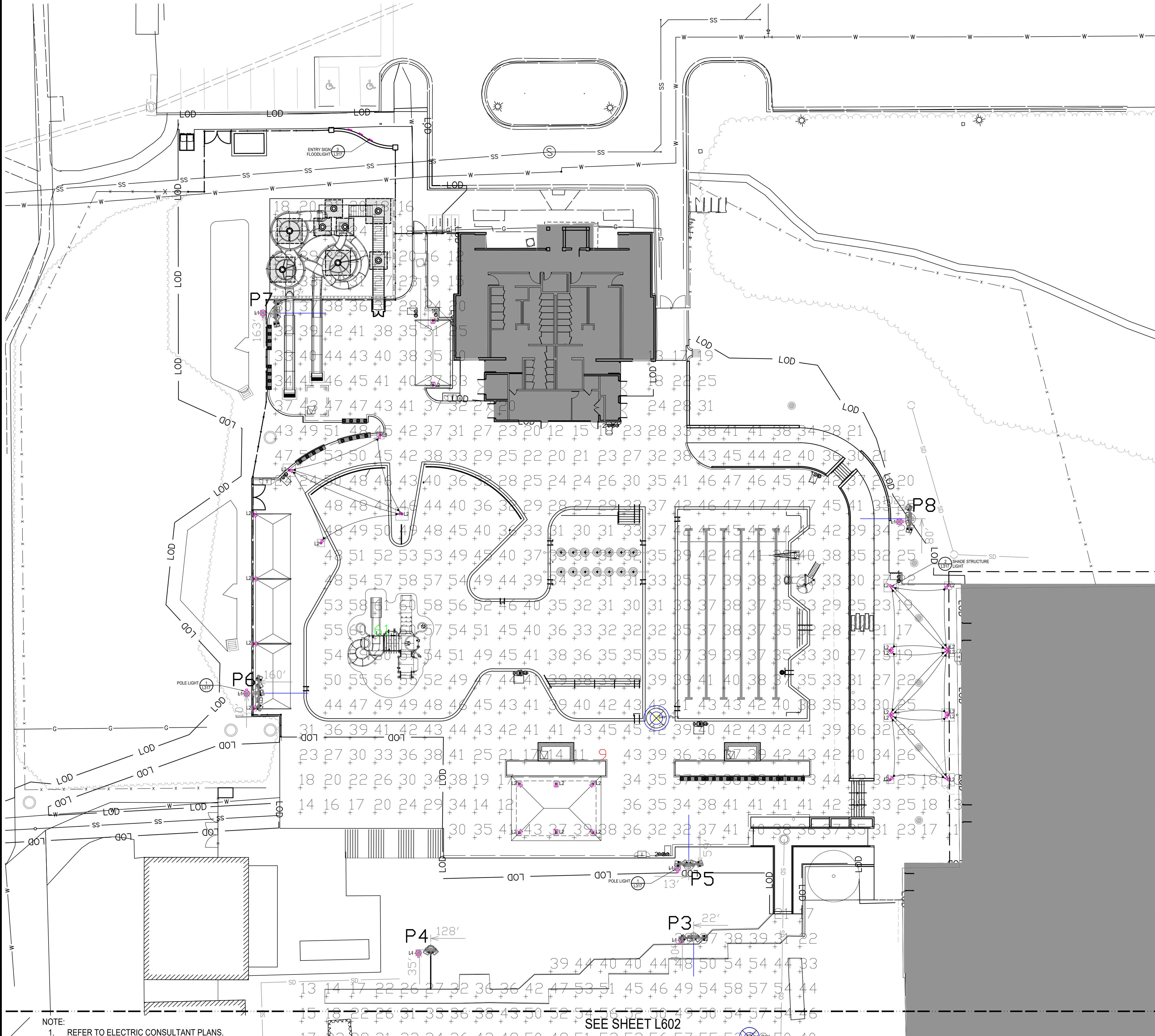
No.	Description	Date
Revisions		

Project Number:	22.00036.00
Scale:	AS SHOWN
Drawn By:	AD, HW, BS
Checked By:	AD
Date:	01/08/2024

Sheet No. **L411**

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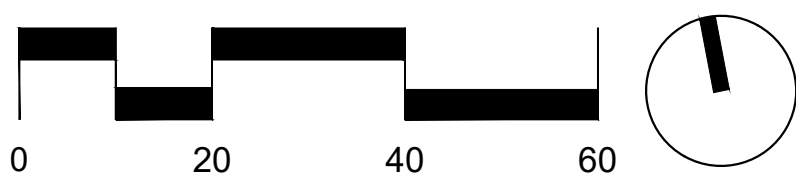




NOTE:  
1. REFER TO ELECTRIC CONSULTANT PLANS.

SEE SHEET L602

1 LIGHTING PLAN  
1" = 20'-0"



LEGEND

- L1 1 POLE LIGHT WITH GFCI OUTLET  
L2 2 SHADE STRUCTURE LIGHT  
 3 ENTRY SIGN FLOODLIGHT



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Grid Summary

Name: Main Pool Area  
Size: 2' x 2'  
Spacing: 10.0' x 10.0'  
Height: 3.0' above grade

Illumination Summary

		Entire Grid
Scan Average	37.88	
Maximum	68	
Minimum	6	
Avg/Min	6.78	
Max/Min	12.12	
UG (adjacent pts)	1.74	
CU	0.73	
No. of Points	455	
LUMINAIRE INFORMATION		
Applied Circuits	E,F,G,H	
No. of Luminaires	18	
Total Load	20.22 kW	

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

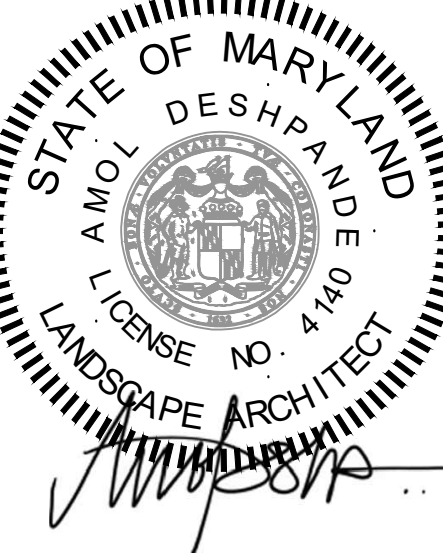
**Installation Requirements:** Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown

		Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	P5	60'	-	60'	TLC-LED-1200	5	5	0
1	P6	70'	-	70'	TLC-LED-1200	4	4	0
					TLC-LED-900	1	1	0
1	P7	70'	-	70'	TLC-LED-1200	2	2	0
					TLC-LED-900	2	2	0
1	P8	70'	-	70'	TLC-LED-1200	4	4	0
4				Totals		18	18	0

LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

LIGHTING  
PLAN

BID SET

1	65% CONSTRUCTION DOCUMENT 06/25/2023
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8	BUILDING PERMIT SET 02/20/2024
9	BID SET 02/23/2024

No.	Description	Date
Revisions		

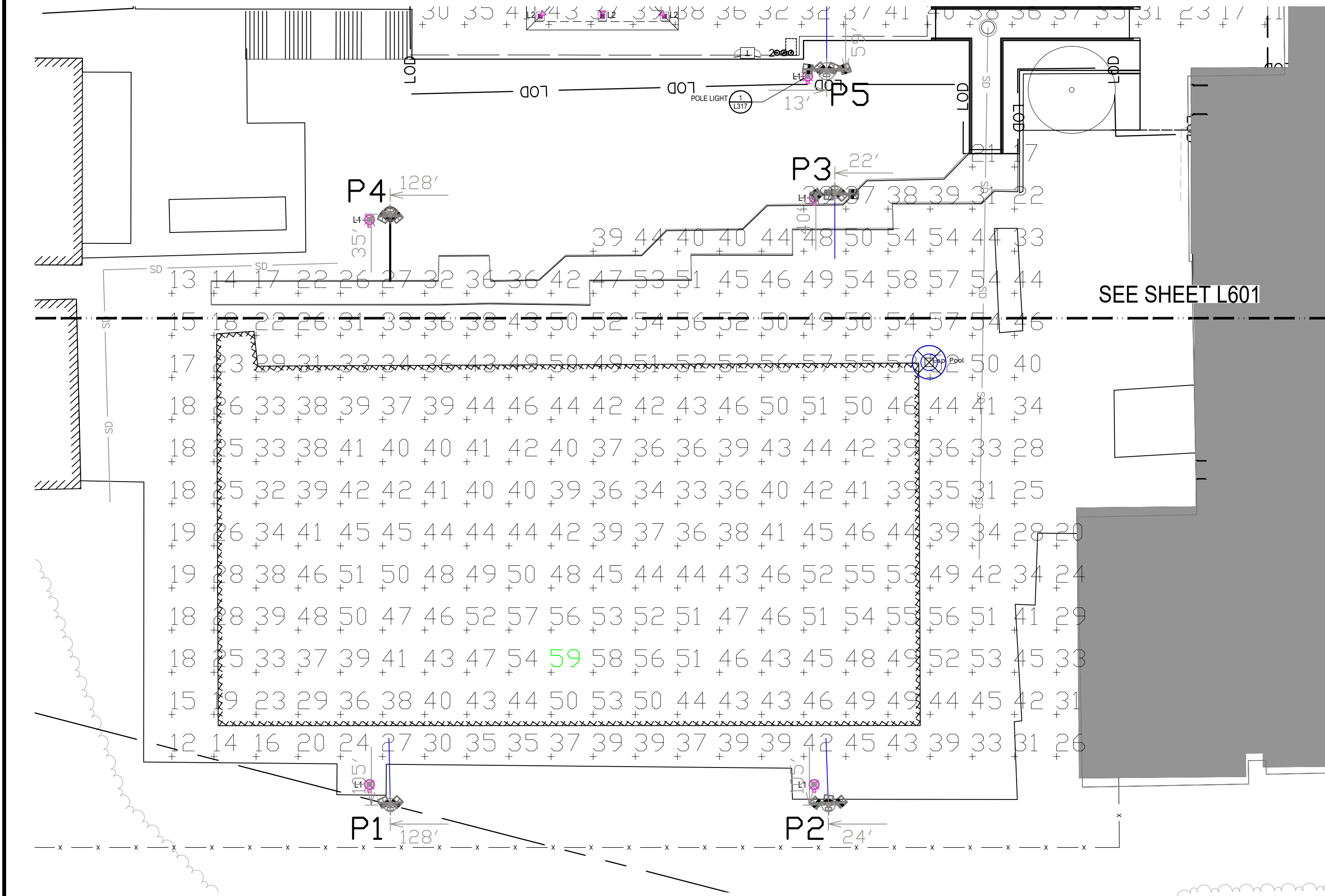
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Checked By: AD  
Date: 01/08/2024

Sheet No. L601

NFC

BID SET 02/23/2024

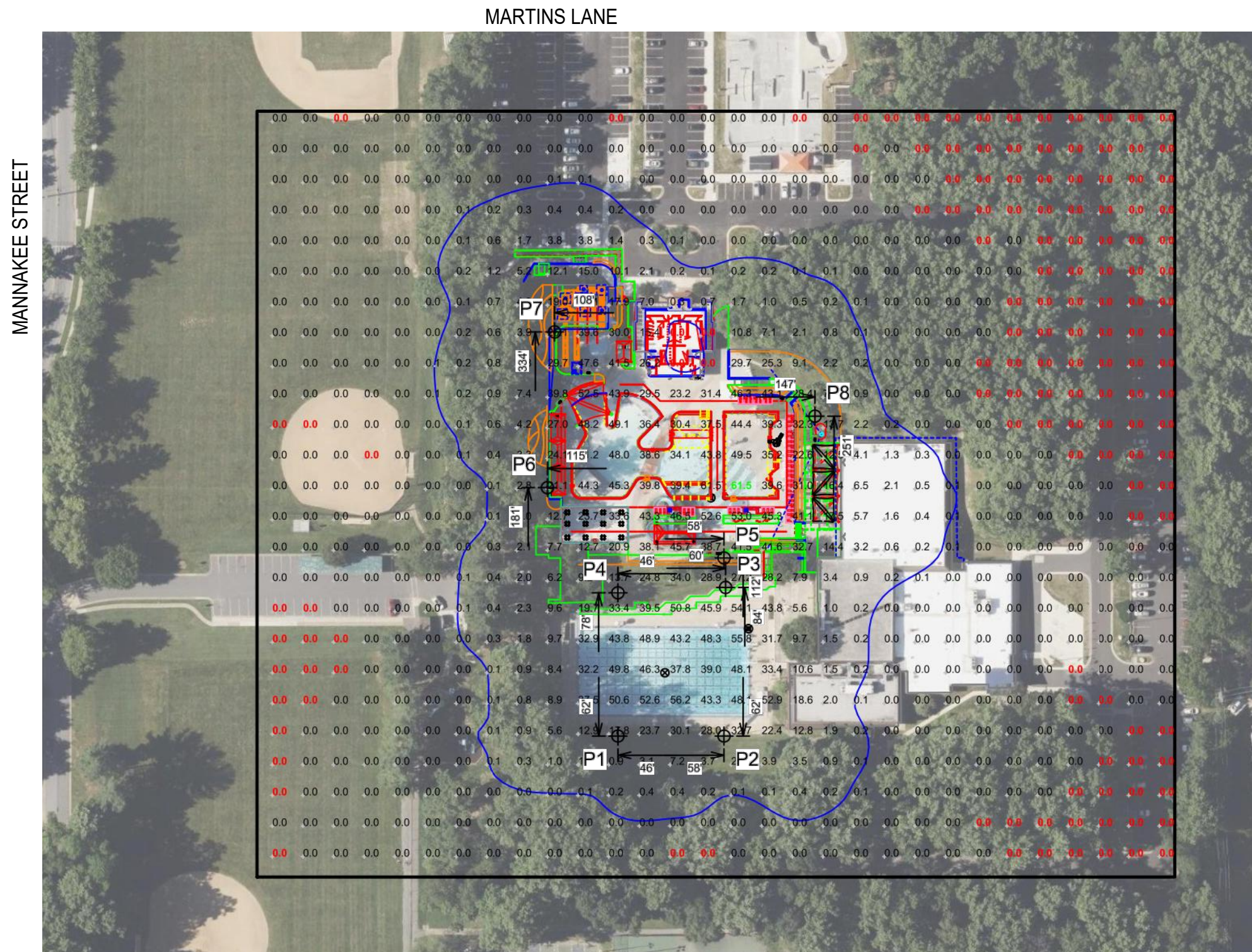




NOTE:  
1. REFER TO ELECTRIC CONSULTANT PLANS.  
2. REPLACING THE LIGHT POOLS AROUND THE EXISTING FITNESS POOL IS AN ADD ALTERNATE - FITNESS POOL LIGHTING

## 1 FITNESS POOL LIGHTING PLAN (ADD ALTERNATIVE)

1" = 20'-0"



NOTE:  
1. REFER TO ELECTRIC CONSULTANT PLANS.

## 2 ILLUMINATION SUMMARY

NTS

Grid Summary	
Name	Blanket Grid
Size	900' x 750'
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
Entire Grid	
Scan Average	5.86
Maximum	62
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	258.07
CU	0.99
No. of Points	750
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H
No. of Luminaires	29
Total Load	32.31 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

LEGEND	
L1	1 POLE LIGHT WITH GFCI OUTLET
L2	2 SHADE STRUCTURE LIGHT
L3	3 ENTRY SIGN FLOODLIGHT

Grid Summary	
Name	Lap Pool Area
Size	2' x 2'
Spacing	10.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
Entire Grid	
Scan Average	41.67
Maximum	61
Minimum	16
Avg/Min	2.65
Max/Min	3.88
UG (adjacent pts)	1.60
CU	0.78
No. of Points	278
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D
No. of Luminaires	11
Total Load	12.09 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown							
Pole		Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY/POLE	THIS GRID
2	P1 P4	50'	-	50'	TLC-LED-1200	1	1
				50'	TLC-LED-1500	1	1
1	P2	50'	-	50'	TLC-LED-1200	3	3
1	P3	50'	-	50'	TLC-LED-1200	2	2
				50'	TLC-LED-550	2	2
4	Totals					11	11

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1	50'	50'	1	TLC-LED-1200	1.17 kW	A
		50'	1	TLC-LED-1500	1.41 kW	A
P2	50'	50'	3	TLC-LED-1200	3.51 kW	B
P3	50'	50'	2	TLC-LED-1200	2.34 kW	C
		50'	2	TLC-LED-550	1.08 kW	C
P4	50'	50'	1	TLC-LED-1200	1.17 kW	D
		50'	1	TLC-LED-1500	1.41 kW	D
P5	60'	60'	5	TLC-LED-1200	5.85 kW	E
P6	70'	70'	1	TLC-LED-900	0.89 kW	F
		70'	4	TLC-LED-1200	4.68 kW	F
P7	70'	70'	2	TLC-LED-1200	2.34 kW	G
		70'	2	TLC-LED-900	1.78 kW	G
P8	70'	70'	4	TLC-LED-1200	4.68 kW	H
8			29		32.31 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	P1	2.58 kW	2
B	P2	3.51 kW	3
C	P3	3.42 kW	4
D	P4	2.58 kW	2
E	P5	5.85 kW	5
F	P6	5.57 kW	5
G	P7	4.12 kW	4
H	P8	4.68 kW	4

Fixture Type Summary						
Type	Source	Wattage	Lumens	L90	L80	L70
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000
TLC-LED-550	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000

Single Luminaire Amperage Draw Chart							
Driver Specifications (.90 min power factor)		Line Amperage Per Luminaire (max draw)					
Single Phase Voltage		208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4
TLC-LED-900	-	-	-	-	-	-	-

### Light Level Summary

Calculation Grid Summary							
Grid Name	Calculation Metric	Illumination			Circuits		
Blanket Grid	Horizontal Illuminance	Ave	Min	Max	Max/Min	Ave/Min	Fixture Qty
Lap Pool Area	Horizontal	41.7	16	61	3.88	2.60	11
Main Pool Area	Horizontal	37.9	6	68	12.12	6.31	18

## 3 OVERALL LIGHTING SYSTEM

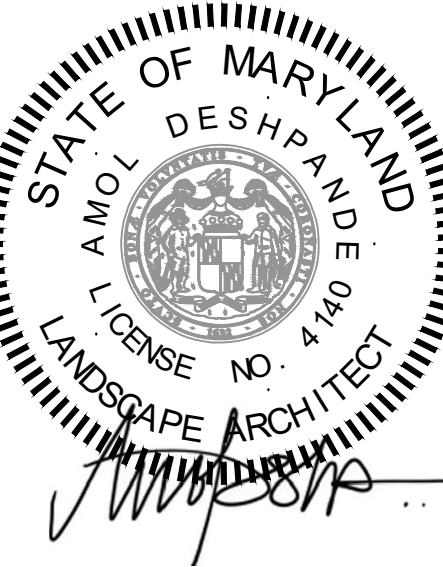
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## LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

## OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

## LIGHTING PLAN

## BID SET

1	65% CONSTRUCTION DOCUMENT 06/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	BUILDING PERMIT SET 12/08/2023
5	HD COMMENT RESPONSE 01/08/2024
6	BID SET 02/01/2024
7	BUILDING PERMIT SET 02/06/2024
8	BUILDING PERMIT SET 02/20/2024
9	BID SET 02/23/2024

No.	Description	Date
Revisions		

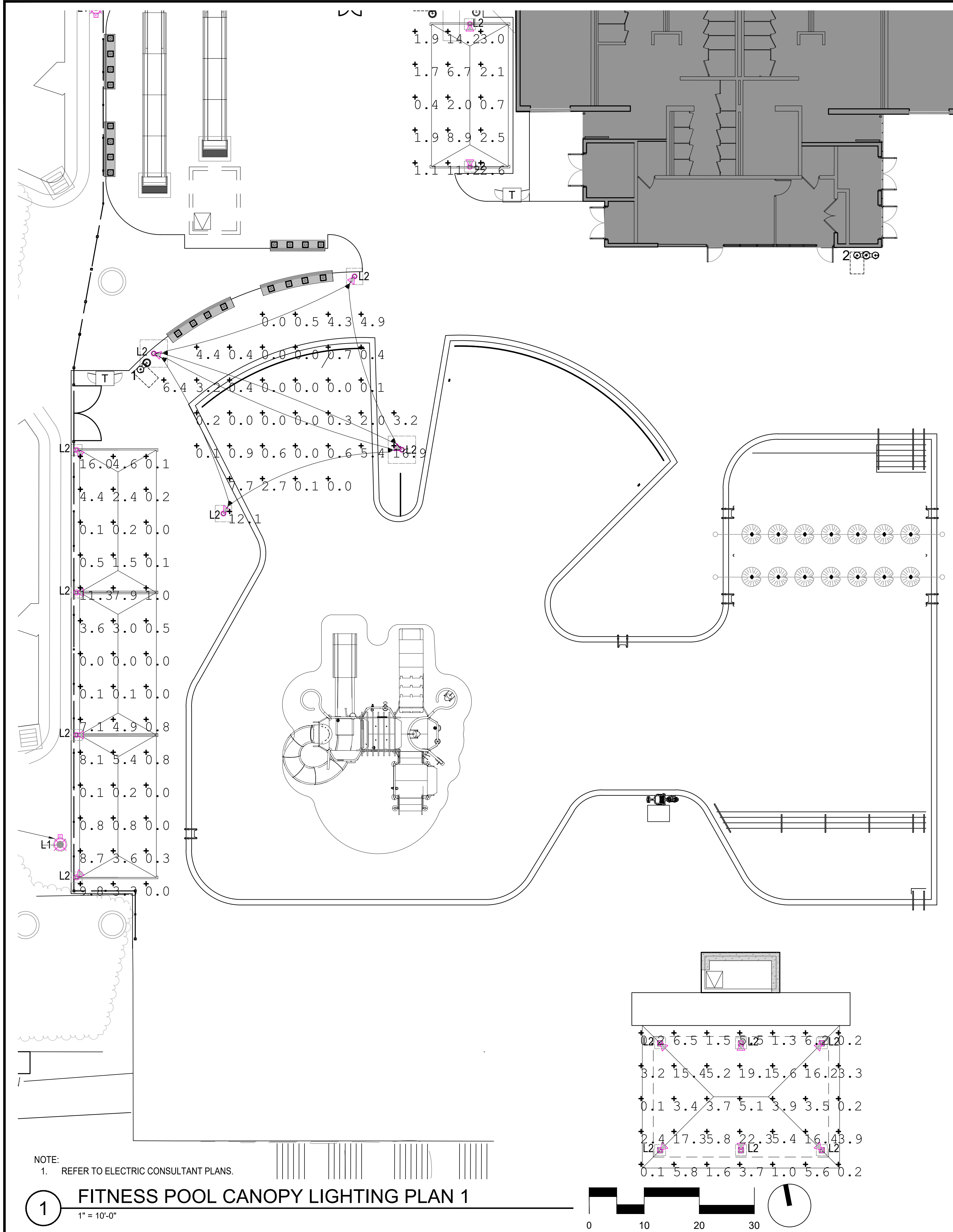
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Checked By: AD  
Date: 01/08/2024

Sheet No. L602

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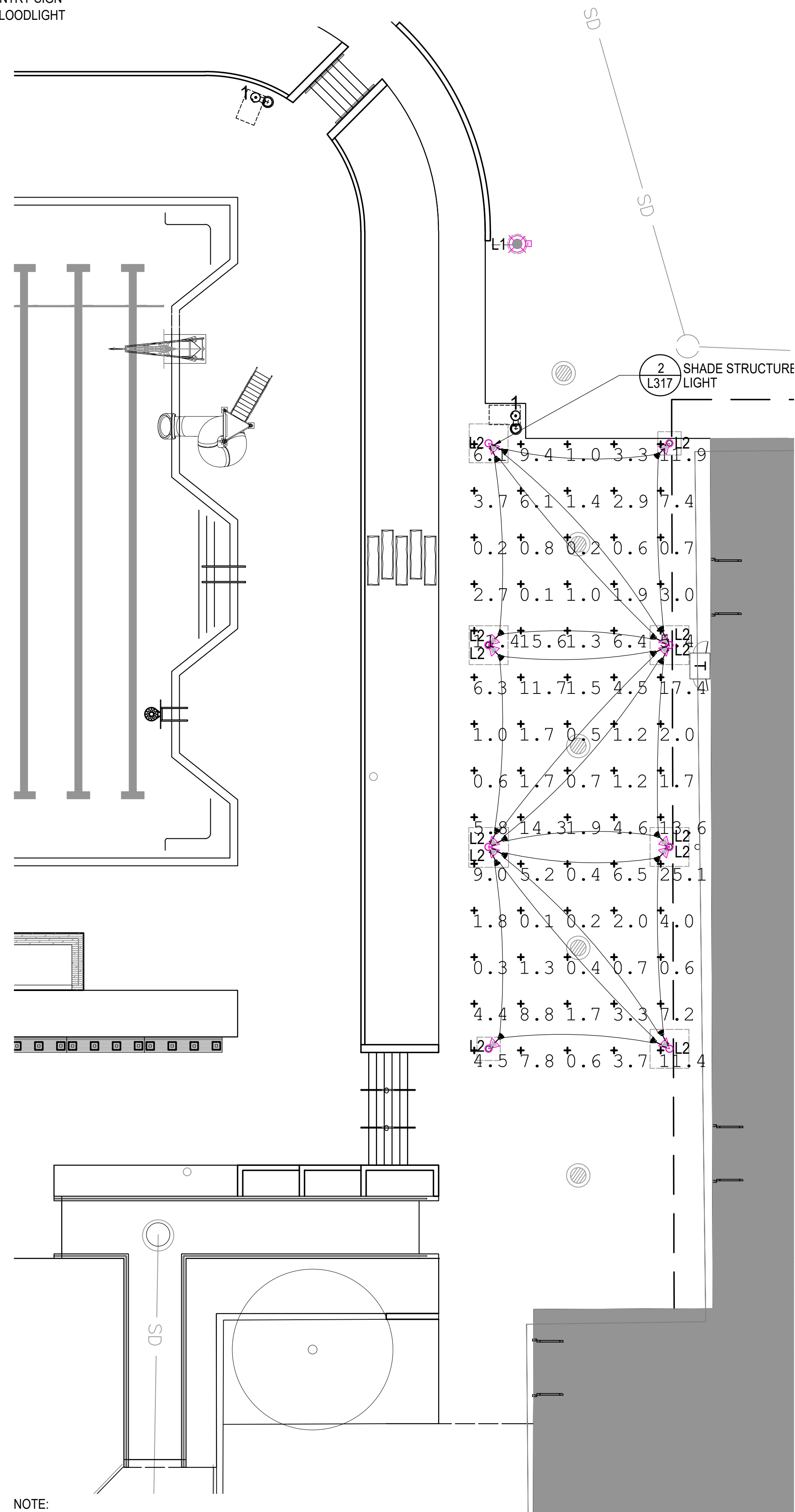
BID SET 02/23/2024





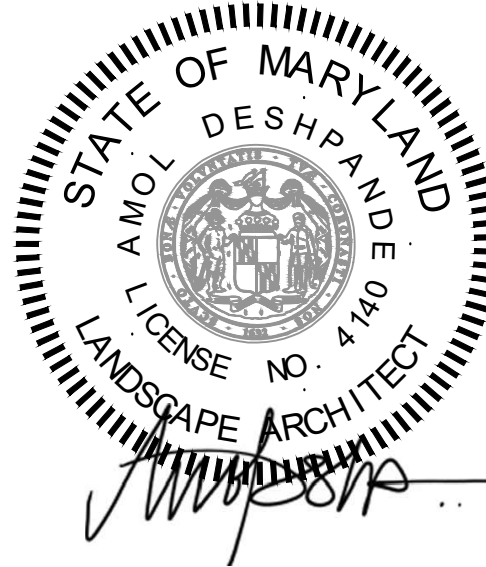
LEGEND

- 1 POLE LIGHT WITH GFCI  
L317 OUTLET
- 2 SHADE STRUCTURE  
L317 LIGHT
- 3 ENTRY SIGN  
L317 FLOODLIGHT



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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

CANOPY  
LIGHTING  
PLAN

BID SET

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8	BUILDING PERMIT SET 02/20/2024
9	BID SET 02/23/2024

No.	Description	Date
Revisions		
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Scale: AS SHOWN		
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Checked By: AD		
Date: 01/08/2024		
Sheet No. L603		

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BID SET 02/23/2024







H. MASONRY

1. WALL SECTIONS AND PIERS LESS THAN 2.00 SQUARE FEET IN CROSS-SECTIONAL AREA TO BE FULLY GROUTED WITH VERTICAL #4 REINFORCING BAR CENTERED IN EACH GROUTED CELL.

2. IN GROUTED AND/OR REINFORCED MASONRY WALLS, USE MASONRY UNITS WITH CORES THAT ALIGN VERTICALLY TO PROVIDE CONTINUOUS UNOBSTRUCTED CELLS FOR GROUTING AND REINFORCING STEEL PLACEMENT.

3. LAP SPLICES FOR DEFORMED REINFORCING BARS USED IN MASONRY CONSTRUCTION TO BE AS FOLLOWS:

#4, #5:  
#6:  
#7 AND LARGER:

50 BAR DIAMETERS  
75 BAR DIAMETERS  
SEE DRAWINGS FOR MECHANICAL SPLICE. PROVIDE SPLICE COMPLYING WITH ACI 318-12.14.3.

4. COORDINATE GROUT PLACEMENT AND POUR/LIFT HEIGHTS IN ACCORDANCE WITH TMS 602 SECTION 3.5

5. "WET-STICKING" OF REINFORCING STEEL IS NOT PERMITTED. **USE PREFABRICATED METAL REBAR POSITIONERS TO SECURE REINFORCING STEEL PRIOR TO GROUTING.**

6. CONSOLIDATE AND RECONSOLIDATE GROUT POURS EXCEEDING 12" IN HEIGHT BY MECHANICAL VIBRATION IN ACCORDANCE WITH ACI 530.1, SECTION 3.5.E.

7. PROVIDE 9-GAGE GALVANIZED HORIZONTAL JOINT REINFORCEMENT IN ALL WALLS AND PARTITIONS AT 16" O.C., UNLESS OTHERWISE SHOWN OR NOTED. PROVIDE ONE PIECE PREFABRICATED UNITS AT 8" O.C. AT ALL WALL CORNERS AND INTERSECTIONS.

8. PROVIDE MASONRY ANCHORS AT ALL PARTITIONS AND WALLS ABUTTING BEAMS, COLUMNS, AND CONCRETE WALLS AT 16" O.C. VERTICALLY AND 24" HORIZONTALLY UNLESS NOTED OTHERWISE.

9. ANCHOR PIERS AND PARTITIONS TO ADJACENT MASONRY WALLS.

10. PROVIDE LINTELS OF LOOSE STEEL ANGLES OR PRECAST CONCRETE (CONTRACTOR'S OPTION UNLESS SHOWN OTHERWISE ON THE DRAWINGS) FOR **NON-LOAD BEARING** WALLS AND PARTITIONS AS FOLLOWS:

**PRECAST CONCRETE LINTELS:** CONCRETE f<sub>c</sub> = 3,000 PSI MIN.; REBAR ASTM A615, GRADE 60, 1½" MIN. REBAR CLEAR TOP AND BOTTOM, PROVIDE MINIMUM 8" BEARING EACH END.

OPENING ≤ 4'-0"

4'-0" < OPENING ≤ 6'-0"

6'-0" < OPENING ≤ 6'-8"

6'-8" < OPENING ≤ 10'-0"

10'-0" < OPENING

LINTEL SIZE = WALL THICKNESS x 8" DEEP WITH 1#3 BOTTOM FOR EACH 4" OF THICKNESS.

LINTEL SIZE = WALL THICKNESS x 8" DEEP WITH 1#3 BOTTOM AND 1#3 TOP FOR EACH 4" OF THICKNESS.

LINTEL SIZE = WALL THICKNESS x 8" DEEP WITH 1#4 BOTTOM AND 1#3 TOP FOR EACH 4" OF THICKNESS.

LINTEL SIZE = WALL THICKNESS x 8" DEEP WITH 1#5 BOTTOM AND 1#3 TOP FOR EACH 4" OF THICKNESS.

NOTIFY SER

11. DO NOT PLACE OPENINGS ABOVE ANY LINTEL WITHIN A HEIGHT LESS THAN OR EQUAL TO THE WIDTH OF THE CLEAR OPENING BELOW THE LINTEL, UNLESS SPECIFICALLY SHOWN OR APPROVED BY THE SER.

I. STRUCTURAL STEEL

1. POWER TOOL CLEAN AND PAINT WITH THREE COATS OF OIL BASE PAINT, IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL PAINTING SYSTEM SPECIFICATION NO. 1.09, ALL STRUCTURAL STEEL THAT IS LOCATED IN EXTERIOR UNHEATED SPACES, INCLUDING STEEL DIRECTLY EXPOSED TO WEATHER.

2. COMMERCIAL BLAST CLEAN AND PAINT WITH THREE COATS OF EPOXY PAINT, IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL PAINTING SYSTEM SPECIFICATION NO. 13.01, ALL STRUCTURAL STEEL THAT IS SUBJECT TO WETTING WITH SALT-LADEN WATER OR OTHER MILD CHEMICAL ATTACK (SUCH AS INDOOR SWIMMING POOL AREAS). PROVIDE A URETHANE TOPCOAT FOR ALL STEEL EXPOSED TO VIEW.

3. NOTIFY THE SER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.

4. REPLACE OR REINFORCE ANY STRUCTURAL STEEL DAMAGED DURING CONSTRUCTION (INCLUDING ANCHOR RODS) AS ACCEPTABLE TO THE SER.

5. FIELD CUTTING WITH GAS TORCH IS NOT PERMITTED.

6. WHEN INSTALLING POST-INSTALLED ANCHORS (EXPANSION BOLTS, ADHESIVE ANCHORS, ETC.) TAKE MEASURES TO AVOID DAMAGE TO EXISTING REINFORCING STEEL AND CONCRETE. BLOW HOLES CLEAN PRIOR TO PLACING ANCHORS.

J. SEALANT, COATINGS AND JOINT MATERIALS

1. SEE SPECIFICATIONS FOR APPROVED SEALANT MATERIALS AND APPLICATION PROCEDURES.

2. UPON COMPLETION OF SEALANT WORK, THE CONTRACTOR SHALL PAINT PARKING STRIPING AND TRAFFIC MARKINGS TO MATCH EXISTING CONDITIONS. THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE EXISTING STRIPING AND MARKINGS AND SUBMIT FOR APPROVAL PRIOR TO BEGINNING DEMOLITION WORK.

3. REPAIR OR REPLACE EXISTING EXPANSION JOINTS WITH JOINT SYSTEM AS NOTED ON THE DRAWINGS.

K. DEMOLITION

1. ALL SHORING AND DEWATERING, IF REQUIRED, SHALL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR. SHORING SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR HIS SEAL AND SIGNATURE.

2. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING OCCUPIED SPACES, STRUCTURES, CURBS, STREETS, SUBWAY SYSTEM, ETC. FROM DAMAGE BY CONSTRUCTION DEBRIS, WATER OR EQUIPMENT. THE CONTRACTOR SHALL NOT DISPOSE OF ANY DEBRIS, LIQUIDS, SLURRY, SPOILS OR CHEMICALS ON THE SITE, EXCEPT AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL RESOURCES.

3. PRIOR TO BEGINNING DEMOLITION ON SLABS OR BEAMS, THE CONTRACTOR SHALL INSTALL SHORING AND BRACING ADEQUATE TO FULLY SUPPORT THE LOADS NORMALLY SUPPORTED BY THE SLABS OR BEAMS AS NOTED IN THE REPAIR DETAILS.

4. REMOVE DELAMINATED CONCRETE TO EXPOSE SOUND CONCRETE FREE OF FRACTURES, LOOSE AGGREGATE OR EXCESSIVE CRACKING. IF SUCH REMOVAL EXPOSES CORRODED REINFORCING BARS OR MORE THAN HALF OF ANY CLEAN REINFORCING BAR, REMOVE ADDITIONAL CONCRETE TO PROVIDE A MINIMUM ¾" CLEARANCE AROUND THE BARS. IF THE ENDS OF BARS INTERSECTING THE EDGE OF THE REPAIR AREA ARE CORRODED, REMOVE CONCRETE ALONG THE BAR (¾" MINIMUM CLEAR ALL AROUND) UNTIL THE BAR IS CLEAN OF CORROSION, IF SO DIRECTED BY THE ENGINEER.

5. THE EDGES OF ALL REPAIR AREAS SHALL BE CHIPPED AT APPROXIMATELY 90° FROM THE SURFACE OF THE MEMBER TO A MINIMUM OF ¾" BEHIND THE REINFORCEMENT IF EXPOSED OR TO A MINIMUM DEPTH OF 1" FROM THE SURFACE IF NO REINFORCEMENT IS EXPOSED.

6. IF SURFACE PERIMETER OUTLINE OF REPAIR AREA IS IRREGULAR, TRIM ANY RE-ENTRANT CORNERS ≤ 100" ALONG A LINE WHICH INTERSECTS A POINT 2" BACK FROM THE CORNER ALONG EACH EDGE FORMING THE CORNER.

7. IF THE REINFORCING STEEL IS REDUCED BY CORROSION TO LESS THAN 75% OF ITS ORIGINAL CROSS-SECTIONAL AREA, ADD A NEW BAR OF THE SAME SIZE AS NOTED IN DETAIL 2/S-200. IF THERE IS INADEQUATE ROOM TO PROVIDE A LAP SPLICE FOR THE NEW BAR, CUT OFF THE EXISTING BAR AT THE UNDAMAGED SECTION ON EACH SIDE OF THE DAMAGED SECTION AND USE TENSION COUPLERS TO SPLICE IN A REPLACEMENT SECTION OF THE NEW BAR. BUILD OUT THE PATCH TO PROVIDE A MINIMUM 1½" OVER THE COUPLER.

8. IF THE DEMOLITION DOES NOT EXTEND BEHIND THE EXISTING REINFORCING STEEL, DRILL AND EPOXY-GROUT ¾" & HOOKED ALL-THREAD "PINS" MINIMUM 3" INTO THE FACE OF THE REPAIR AREA AT 6" O.C. EACH WAY.

9. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, REMOVE ANY CONDUIT UNCOVERED IN REPAIR AREAS.

10. ALL EXISTING SURFACES AGAINST WHICH A CONCRETE POUR IS TO BE PLACED SHALL BE ABRASIVE-BLAST CLEANED OR HYDRO-SCARIFIED AND THEN WASHED DOWN WITH HIGH-PRESSURE WATER.

11. PRIOR TO PLACING PATCHING MATERIAL, APPLY A PENETRATING CALCIUM-NITRATE BASED CORROSION INHIBITING MATERIAL AROUND THE PERIMETER OF THE PATCH.

L. MECHANICAL, ELECTRICAL AND PLUMBING WORK

1. THE CONTRACTOR SHALL PROTECT ALL EXISTING MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS DURING CONSTRUCTION. ANY DAMAGE TO THE SYSTEMS CAUSED BY THE WORK SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

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SUITE 325  
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Greenman-Pedersen, Inc.

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301.570.1480  
www.gpnet.com  
Project # 2200393.00  
PM: TSS M: RMD E: N/A P: N/A S: TF

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850

DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

Designed by

GENERAL NOTES

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland  
License No: 40254  
Expiration: 5/19/25

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3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	PERMIT SET 12/08/2023
5	99% CONSTRUCTION DOCUMENT 01/19/2024

No.	Description	Date
Revisions		

Project Number:	22.00036.00
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Drawn By:	TF
Checked By:	TSS
Date:	10/26/2023

Sheet No.	S-002
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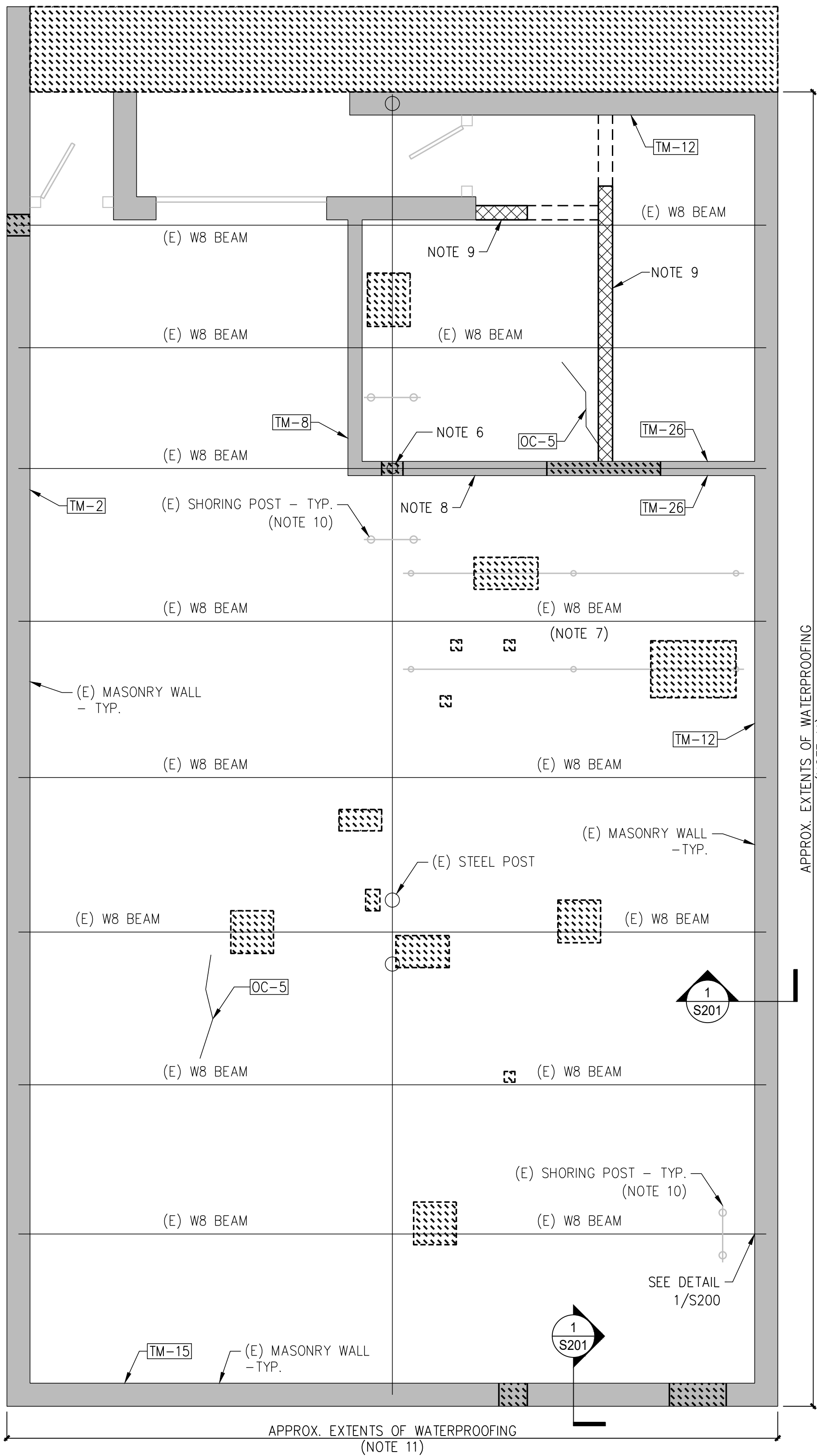
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Page 681 of 747

BID SET 02/23/2024





1 PUMP ROOM SOFFIT  
REPAIR PLAN

N.T.S.



PLAN NOTES

- 1) U.N.O. THIS LEVEL'S EXISTING STRUCTURE CONSISTS OF ONE-WAY CONCRETE SLAB SUPPORTED BY STEEL BEAMS AND LOAD BEARING MASONRY WALLS - VERIFY IN FIELD.
- 2) REBUILD OR REPOINT ALL DAMAGED CMU OR BRICK MASONRY PER 3/S-201.
- 3) CLEAN AND REMOVE ALL RUST FROM ALL CORRODED MISCELLANEOUS METALS USING WIRE BRUSHING OR ABRASIVE BLASTING. THEN REPAINT WITH GALVANIZING PAINT TO MATCH EXISTING.
- 4) CLEAN AND REMOVE ALL RUST FROM ALL CONDUIT AND DRAIN PIPES (NOT SHOWN FOR CLARITY) ON ALL LEVELS USING WIRE BRUSHING OR ABRASIVE BLASTING. THEN REPAINT WITH GALVANIZING PAINT TO MATCH EXISTING.
- 5) CLEAN AND REMOVE RUST FROM ALL STRUCTURAL STEEL. NOTIFY GPI IF EXCESSIVE SECTION LOSS ENCOUNTERED ON ANY MEMBER. REPAINT WITH GALVANIZING PAINT TO MATCH EXISTING.
- 6) REMOVE AND REPLACE EXISTING STEEL COLUMN WITHIN CMU WALL WITH NEW COLUMN AND BASE PLATE TO MATCH EXISTING. CONTRACTOR IS RESPONSIBLE FOR TEMPORARILY SHORING AND PRELOADING COLUMN - SEE GENERAL NOTES. BUILD BACK CMU WALL TO MATCH EXISTING.
- 7) CLEAN, PRIME, AND PAINT EXISTING W8 MEMBER. NOTIFY GPI IF EXCESSIVE SECTION LOSS ENCOUNTERED ON MEMBER.
- 8) TRUNCATE TOP OF EXISTING INTERIOR CMU WALL TO PROVIDE ISOLATION FROM EXISTING W8 BEAM ABOVE. SEE 4/S201 FOR BRACING TO EXISTING BEAM.
- 9) NEW NON-LOAD BEARING CMU WALL. SEE 5/S-201 FOR TOP OF WALL BRACING.
- 10) REMOVE TEMPORARY SHORING AFTER COMPLETING ALL STEEL REPAIRS.
- 11) IMPROPERLY WATERPROOFED EXISTING MASONRY WALL. EXCAVATE TO FOOTING AND INSTALL WATERPROOFING ON EXTERIOR OF WALL PER 1/S201.
- 12) PAINT ALL EXISTING AND NEW CMU WALLS WITH WHITE, LOW VOC, ACRYLIC PAINT.

DENOTES APPROXIMATE AREA\* OF CONCRETE SLAB, CURB, OR TOPPING SURFACE SPALL/DELAMINATION. COMPLETE REPAIRS AS FOLLOWS: \*\*  
PARTIAL DEPTH SLAB REPAIRS PER 4/S-200  
FULL DEPTH REPAIRS PER 6/S-200  
SLAB EDGE REPAIRS PER 3/S-200

DENOTES APPROXIMATE AREA\* OF CONCRETE SLAB SOFFIT SPALL/DELAMINATION. COMPLETE REPAIRS AS FOLLOWS: \*\*  
PARTIAL DEPTH SLAB REPAIRS PER 5/S-200  
FULL DEPTH REPAIRS PER 6/S-200 \*\*

DENOTES APPROXIMATE AREA\* OF CMU WALL SPALL/DELAMINATION. COMPLETE REPAIRS AS FOLLOWS: \*\*  
REBUILD CMU WALL \*\* PER 3/S-201

(N)F.D. DENOTES APPROXIMATE LOCATION\* OF EXISTING FLOOR DRAINS TO BE REPLACED PER 2/S201 - CLEAN AND UNCLOG ALL EXISTING PIPING AND TRENCH DRAINS

INDICATES REPAIRS AS FOLLOWS:

SYMBOL X

SYMBOL Y

REPAIR DETAIL

OC: ROUT/SEAL OPEN CRACKS \*\*

LENGTH OF DAMAGE (ft)\*

8/S-200

TM: REPOINT CMU WALL JOINT \*\*

LENGTH OF DAMAGE (ft)\*

3/S-201

\* APPROXIMATE EXTENT OF DAMAGE DETECTED - CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL EXTENT AND LOCATIONS OF REPAIR AREAS IN ACCORDANCE WITH THE SPECIFICATIONS. AREAS SHOWN ARE ONLY FOR REFERENCE AND TO ILLUSTRATE TYPES OF REPAIRS REQUIRED. DEPTH OF REPAIRS SHALL BE ASSUMED TO BE A NOMINAL 3" UNLESS NOTED OTHERWISE. WALL, COLUMN AND PIPE DAMAGE OCCURS BETWEEN PLAN LEVEL AND LEVEL ABOVE UNLESS NOTED.

\*\* REPAIRS MUST MATCH COLOR AND APPEARANCE OF EXISTING CONCRETE IF THEY OCCUR ON EXTERIOR SURFACES OF GARAGE.

2 DRAWING SYMBOL KEY

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ARCHITECTURE

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SUITE 325  
TYSONS, VIRGINIA 22102  
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**GPI**

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301.570.1483  
Project # 2200393.00  
PM TSS M.RMD E.N/A P.N/A S.TF

ROCKVILLE SWIM  
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355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

PUMP ROOM  
REPAIR PLAN



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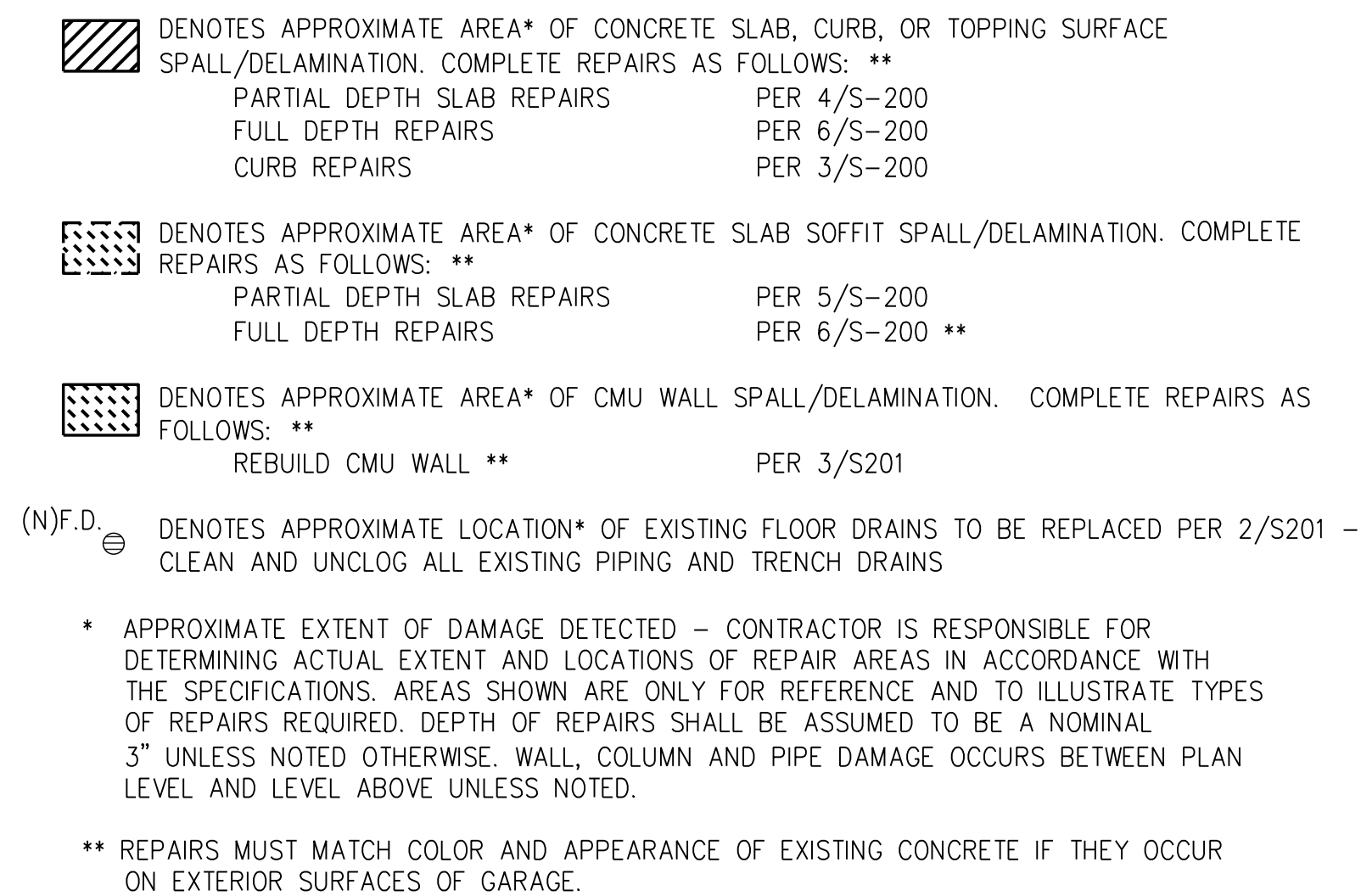
No.	Description	Date
Revisions		

Project Number:	22.00036.00
Scale:	N.T.S.
Drawn By:	TF
Checked By:	TSS
Date:	10/26/2023

Sheet No. S-100

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- 1) U.N.O. THIS LEVEL'S EXISTING STRUCTURE CONSISTS OF ONE-WAY CONCRETE SLAB SUPPORTED BY STEEL BEAMS - VERIFY IN FIELD.
- 2) REBUILD OR REPOINT ALL DAMAGED CMU OR BRICK MASONRY PER MASONRY RESTORATION PER 3/S-201.
- 3) CLEAN AND REMOVE ALL RUST FROM ALL CORRODED MISCELLANEOUS METALS USING WIRE BRUSHING OR ABRASIVE BLASTING. THEN REPAINT WITH GALVANIZING PAINT TO MATCH EXISTING.
- 4) EXISTING CONCRETE SLAB. REPLACE EXISTING COATING MEMBRANE WITH NEW POOL DECK MEMBRANE AFTER COMPLETION OF CONCRETE REPAIRS. SEE LANDSCAPE DRAWINGS FOR COATING MEMBRANE INFORMATION.
- 5) EXISTING SLOPES-TO-DRAIN. CONTRACTOR TO VERIFY SLOPES PROPERLY CONVEY WATER TO DRAINS.
- 6) APPROXIMATE EXTENTS OF SUMP AREA PER DETAIL 2/S201.
- 11) IMPROPERLY WATERPROOFED EXISTING MASONRY WALL. EXCAVATE TO FOOTING AND INSTALL WATERPROOFING ON EXTERIOR OF WALL PER 1/S201.

$$\overbrace{2}$$

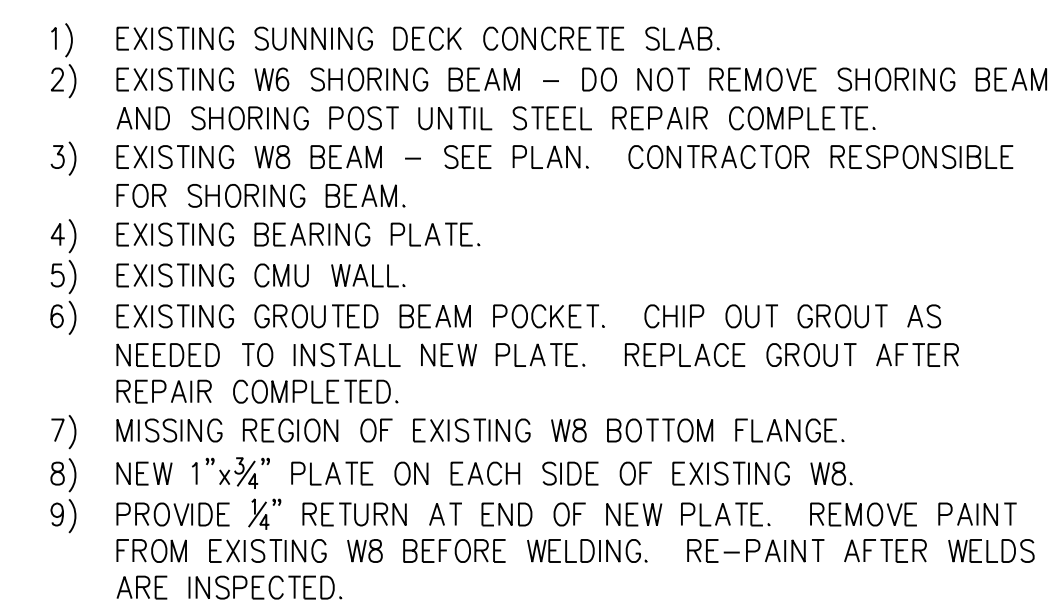
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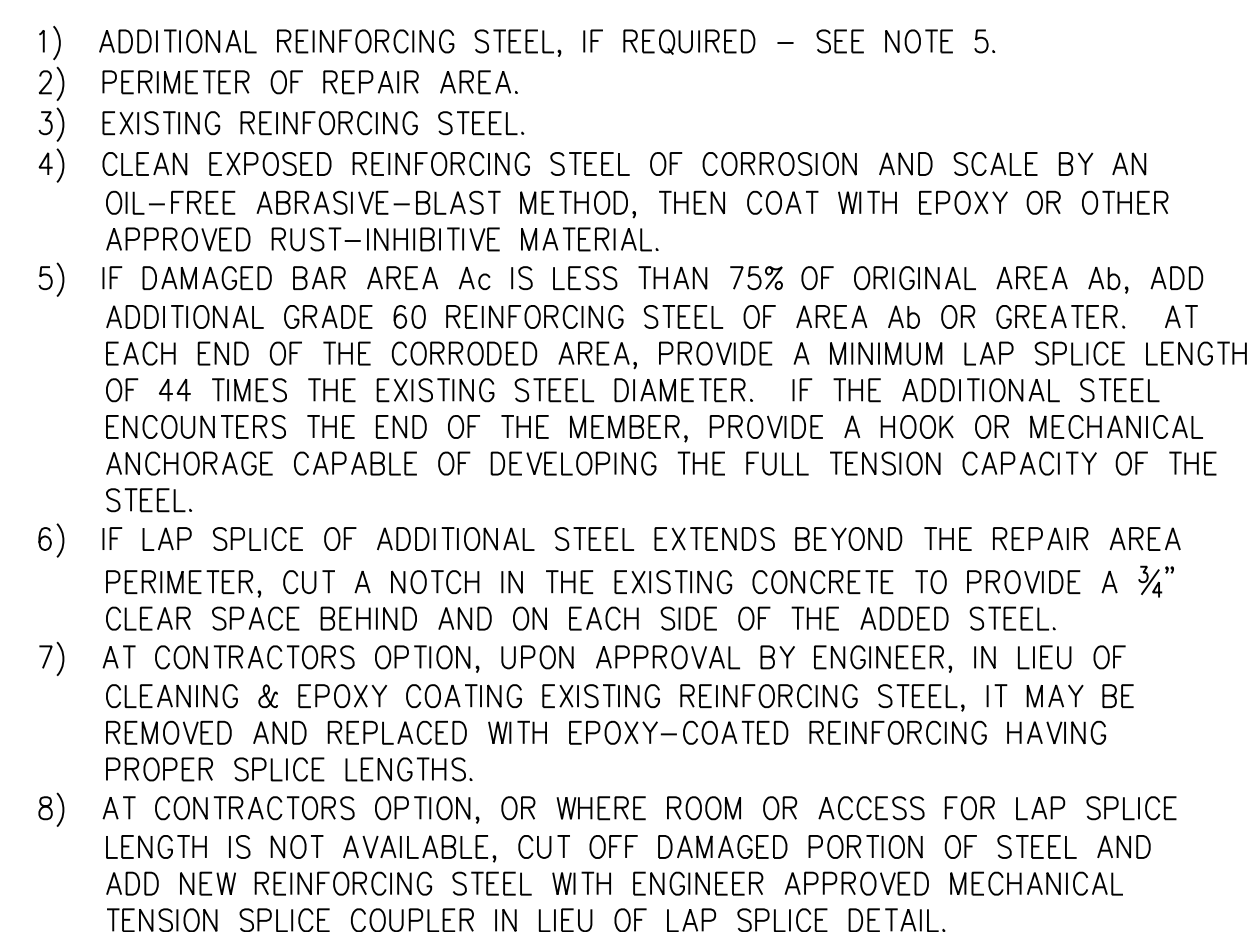
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**BID SET 02/23/2024**

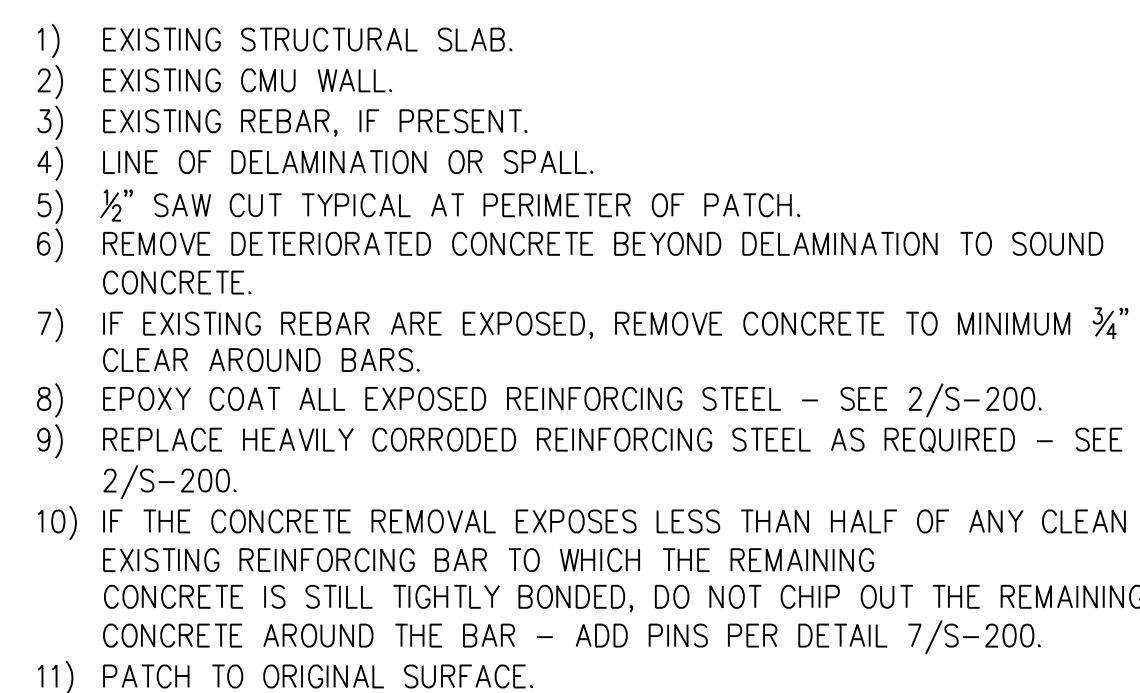




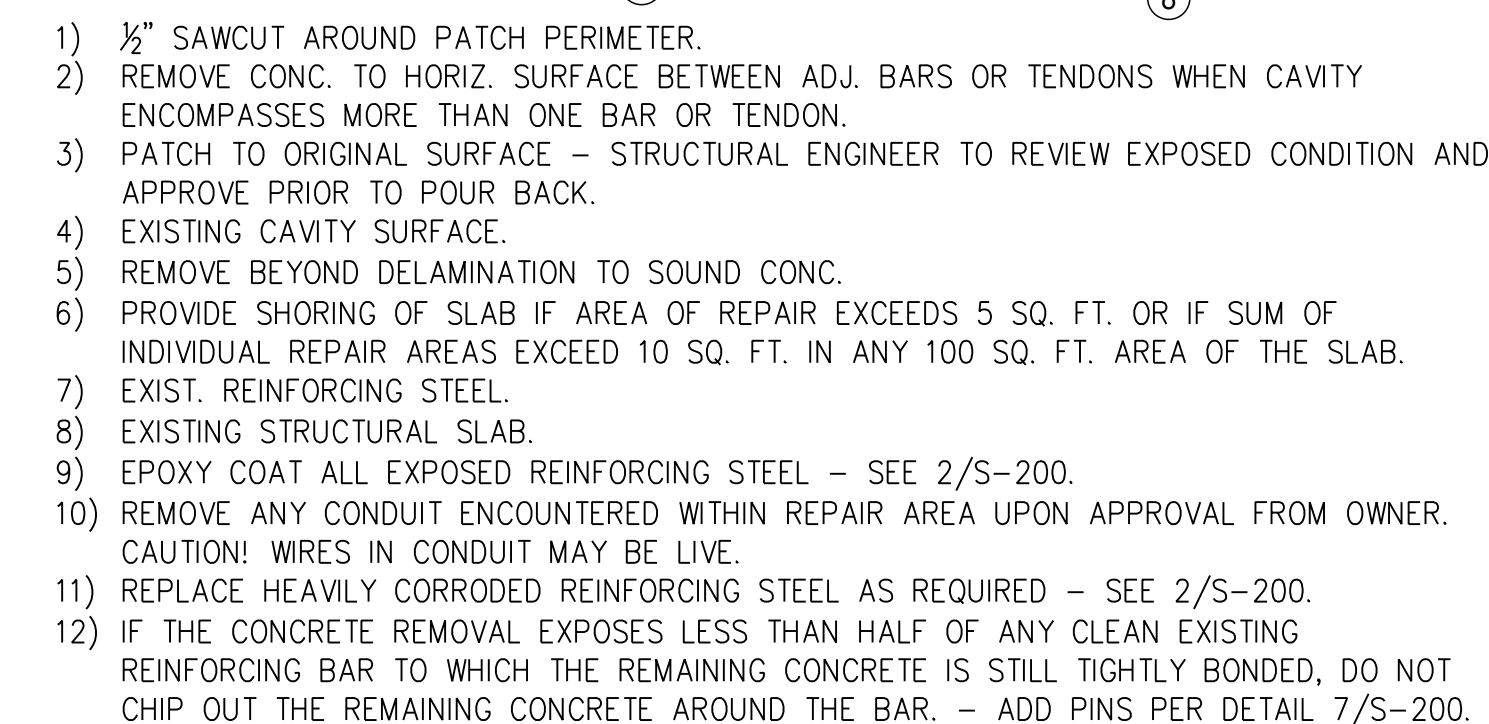
1 EXISTING STEEL BEAM  
REPAIR 1 1/2" = 1'-0"



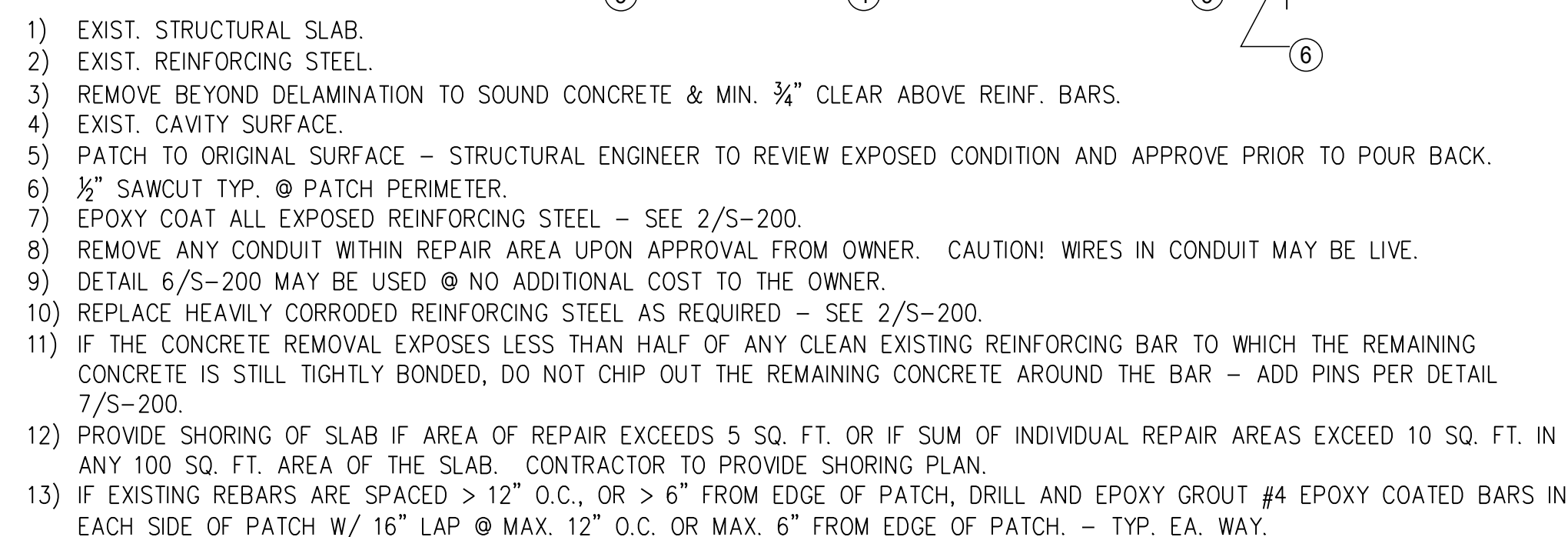
2 EXISTING REINFORCING STEEL  
PREPARATION DETAIL N.T.S.



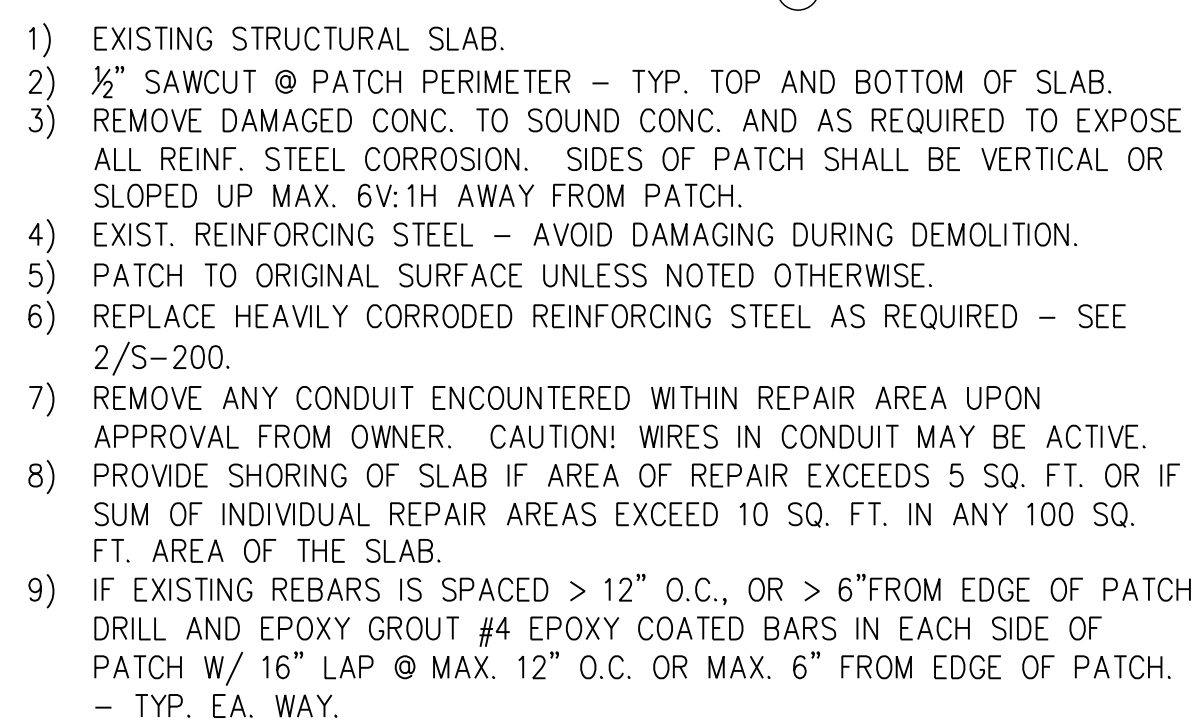
### 3 SLAB EDGE REPAIR DETAIL



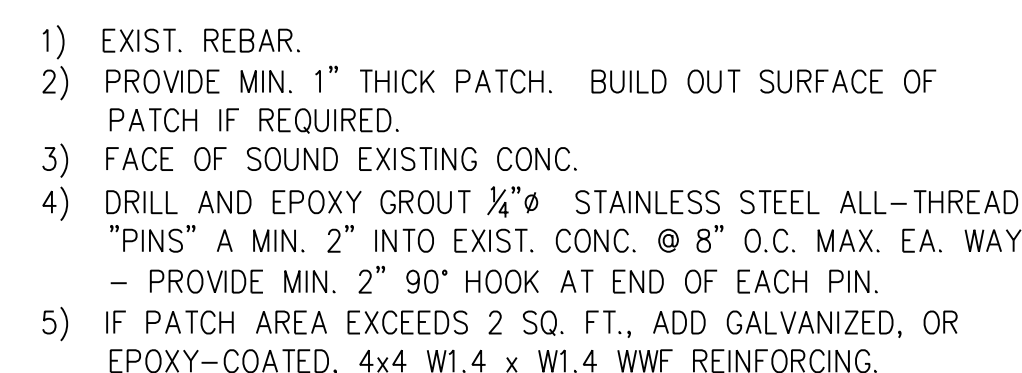
4 SLAB SURFACE  
REPAIR DETAIL



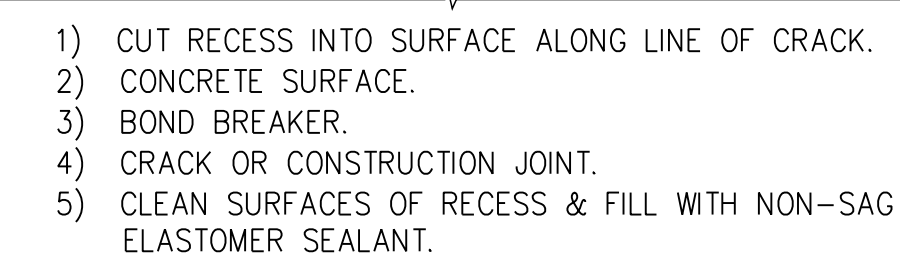
5 SLAB SOFFIT REPAIR DETAIL



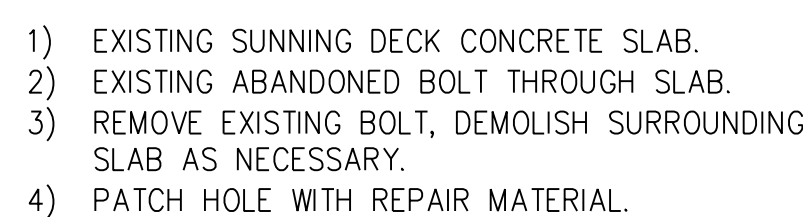
6 FULL DEPTH SLAB  
REPAIR DETAIL



## 7 SHALLOW/SURFACE REPAIR DETAIL



8 ROUT AND SEAL  
DETAIL



# 9 ABANDONED BOLT REPAIR DETAIL $1 \frac{1}{2}'' = 1'-0''$

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**GPI**  
Greenman Pedersen, Inc.

Greenman-Pedersen, Inc.

Engineering and Construction Services

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301 570 1480 [www.orinet.com](http://www.orinet.com)

Project #: 2200393.00  
RM: TSS      M: BMD      E: N/A

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ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

## OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

## REPAIR DETAILS



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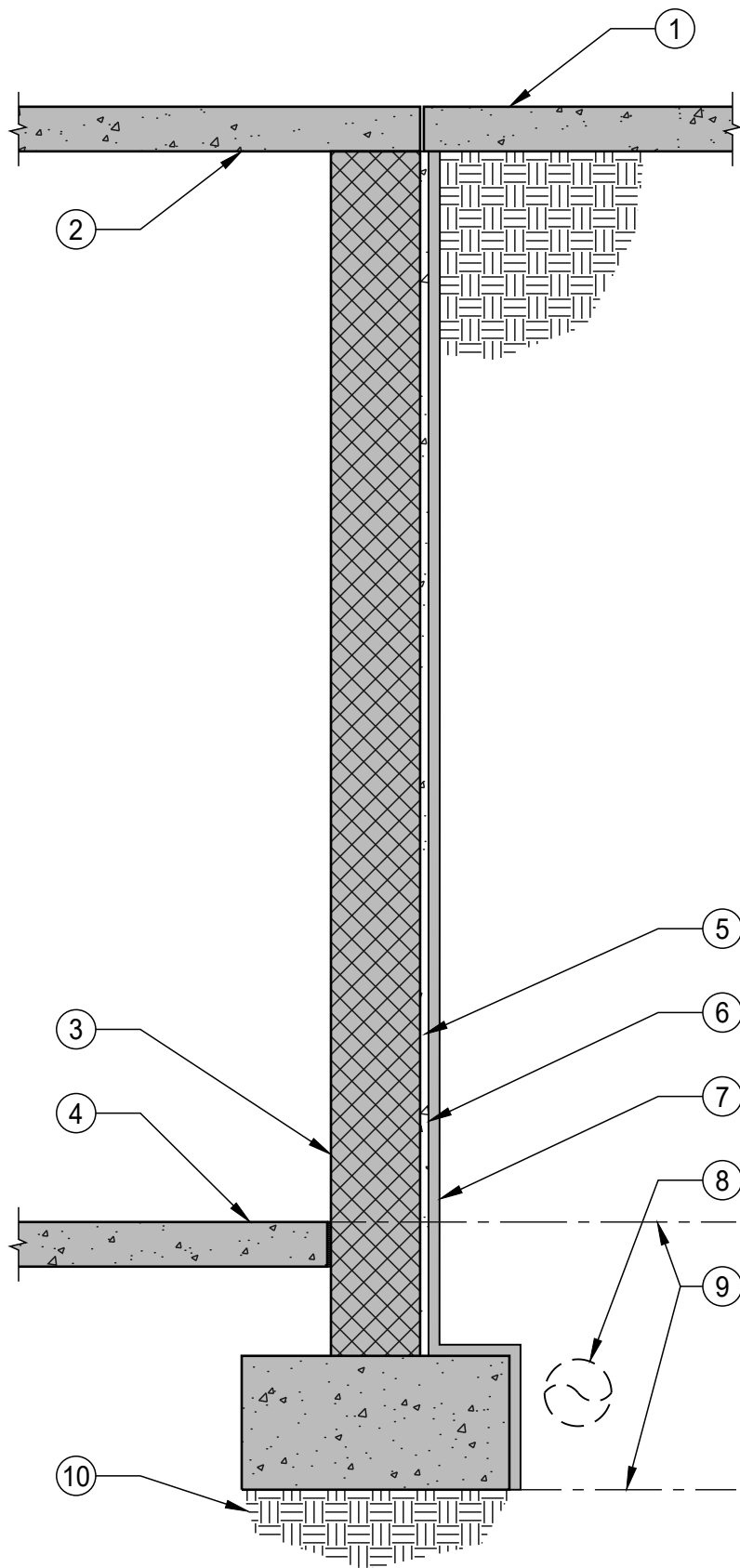
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Revisions		

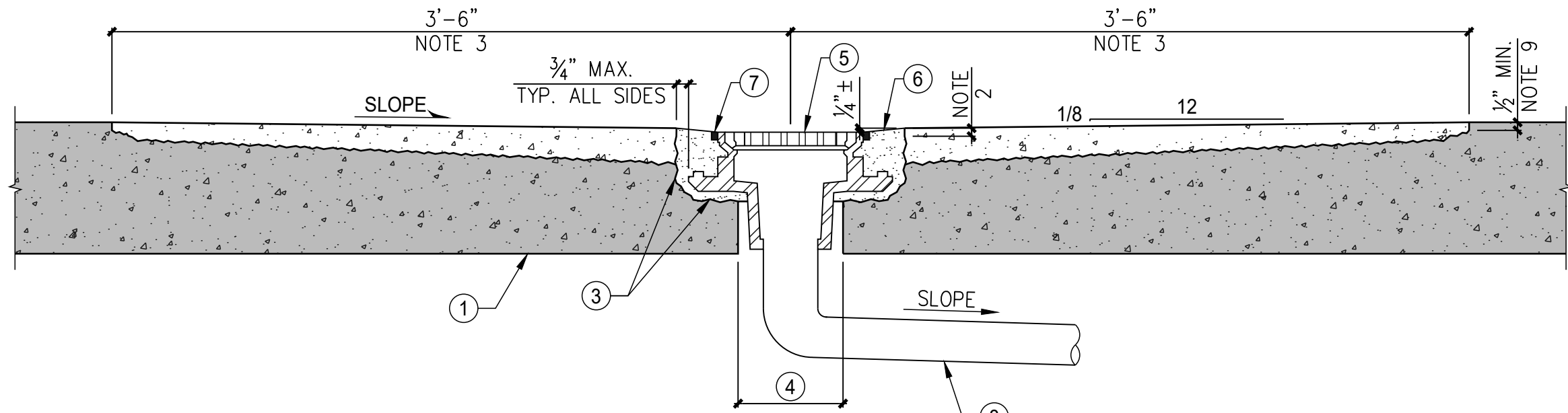
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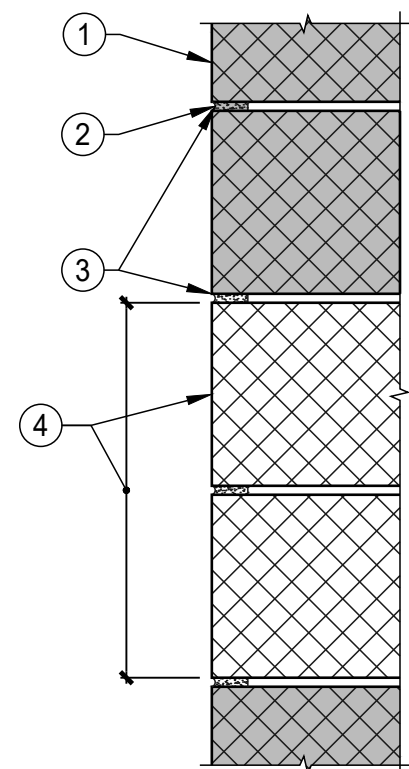




- 1) EXISTING SUNNING DECK SLAB-ON-GRADE.
- 2) EXISTING CONCRETE SLAB.
- 3) EXISTING CMU WALL. REPAIR MASONRY PRIOR TO INSTALLATION OF WATERPROOFING SYSTEM.
- 4) EXISTING PUMP ROOM SLAB-ON-GRADE.
- 5) NEW 3/8" THICK CEMENTITIOUS PARGE COAT.
- 6) NEW LIQUID APPLIED WATERPROOFING MEMBRANE. USE TREMCO TREMPROOF 250GC HIGH-BUILD SYSTEM OR APPROVED EQUIVALENT.
- 7) NEW DRAINAGE BOARD WITH FILTER FABRIC.
- 8) NEW PERFORATED DRAIN PIPE.
- 9) VERTICAL LIMITS OF FOUNDATION DRAIN LINE. 12x12 GRAVEL CAPILLARY NOT SHOWN FOR CLARITY.
- 10) UNDISTURBED FILL.



- 1) EXISTING CONCRETE SLAB. GPR MINIMUM 2 FT RADIUS AROUND ANTICIPATED NEW DRAIN LOCATION PRIOR TO CHIPPING TO AVOID DAMAGING REINFORCING STEEL.
- 2) COREDRILL, OR SAWCUT, PERIMETER OF RECESS TO RECEIVE DRAIN TO 1/2" DEPTH.
- 3) CHIP OUT CONCRETE TO RECEIVE DRAIN BODY AND SUMP SURROUNDING AREA. DO NOT CUT EXISTING REINFORCING STEEL.
- 4) CORE DRILL BOTTOM OF RECESS USING MINIMUM SIZE CORE TO RECEIVE DRAIN HUB. SEAL AROUND HUB PRIOR TO FILLING RECESS WITH CONCRETE.
- 5) JOSAM 31104 (OR EQUAL) DRAIN.
- 6) SET DRAIN IN PLACE SLIGHTLY LOWER THAN SLAB SURFACE AND FILL RECESS WITH CONCRETE. SLOPE TOP OF CONCRETE DOWN TO DRAIN.
- 7) TOOL RECESS AROUND DRAIN AND FILL WITH SEALANT.
- 8) INSTALL PIPING TO CONNECT DRAIN TO EXISTING DRAINING PIPING SYSTEM OR DAYLIGHT TO NEAREST ACCEPTABLE LOCATION AS DETERMINED BY THE ENGINEER.
- 9) SAW CUT PERIMETER OF SUMP 1/2" MIN. - TYP.

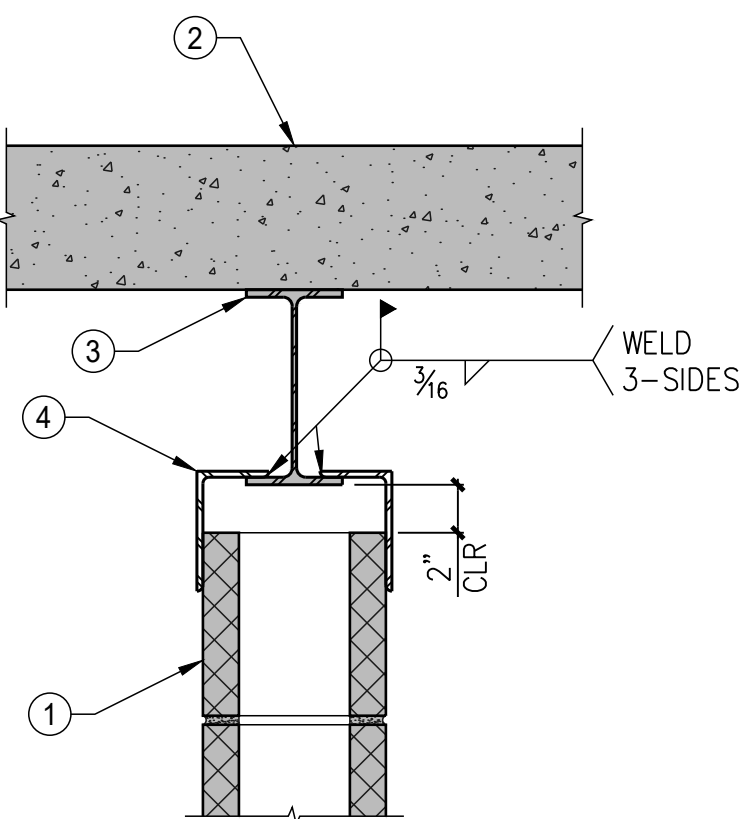


- 1) EXISTING CMU - TYPICAL.
- 2) EXISTING MORTAR JOINTS.
- 3) RAKE OUT AND REPOINT CRACKED, ERODED OR SOFT MORTAR.
- 4) RESET LOOSE CMU, OR CUT OUT AND REPLACE DAMAGED OR BUCKLED CMU WITH NEW MORTAR ALL AROUND.

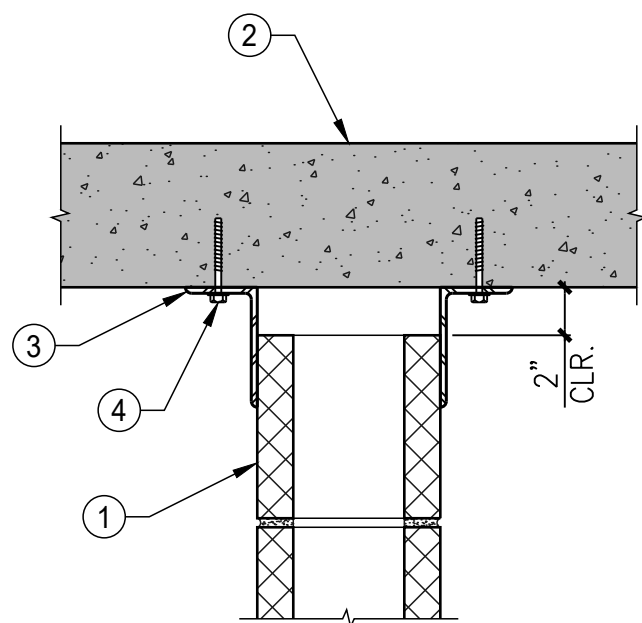
1 EXISTING CMU WALL WATERPROOFING 1/2" = 1'-0"

2 ADDED FLOOR DRAIN AT EXISTING SLAB N.T.S.

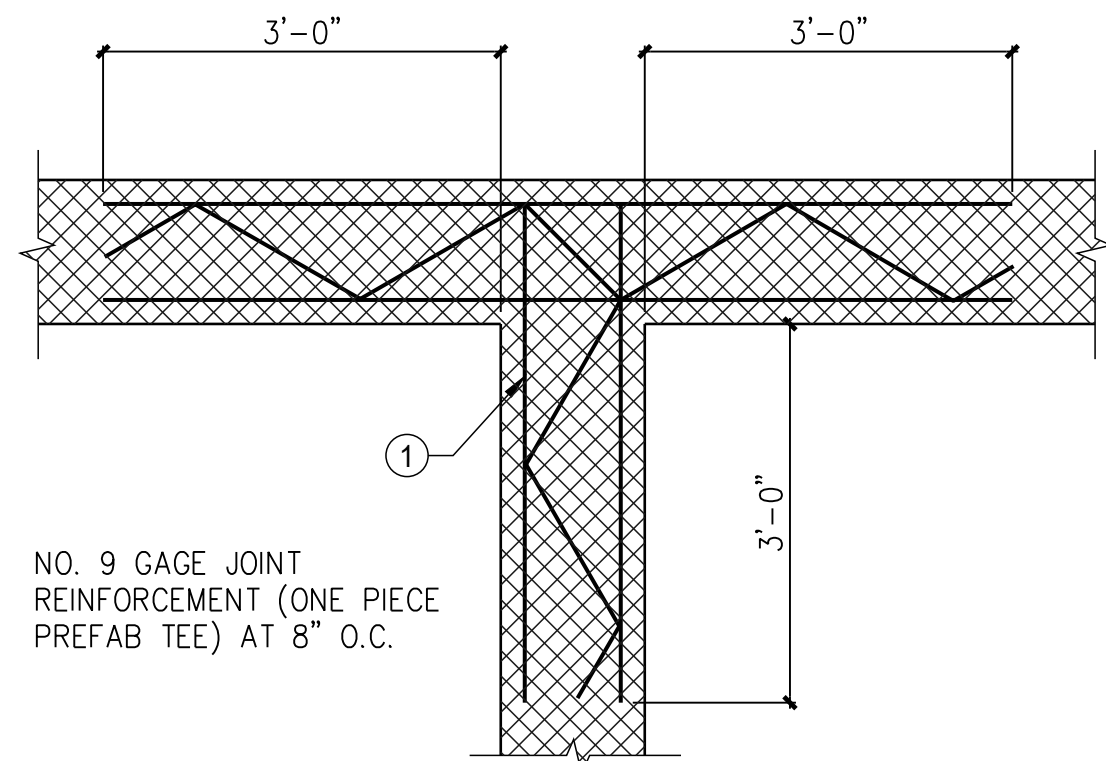
3 CMU MASONRY WALL REPAIR DETAIL N.T.S.



- 1) EXISTING NON-LOAD BEARING MASONRY WALL.
- 2) EXISTING CONCRETE SLAB.
- 3) EXISTING W8 BEAM.
- 4) L5x3x1/4x0'-6" (LLV) EACH SIDE OF WALL STAGGERED AT 4'-0" O.C.



- 1) NON-LOAD BEARING MASONRY WALL.
- 2) EXISTING CONCRETE SLAB.
- 3) L5x3x1/4x0'-6" (LLV) EACH SIDE OF WALL AT 4'-0" O.C.
- 4) (4) 1/2" HILTI KWIK HUS-EZ ANCHORS (2 PER ANGLE). PRIOR TO DRILLING GPR EXISTING CONCRETE SLAB TO LOCATE AND AVOID EXISTING REINFORCING.



- 1) NO. 9 GAGE JOINT REINFORCEMENT (ONE PIECE PREFAB TEE) AT 8" O.C.

4 EXISTING NON-LOAD BEARING WALL BRACING DETAIL 1 1/2" = 1'-0"

5 PROPOSED NON-LOAD BEARING WALL BRACING DETAIL 1 1/2" = 1'-0"

6 CORNER REINFORCING DETAIL N.T.S.

## LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045

# GPI

Greenman-Pedersen, Inc.

Engineering and Construction Services  
3423 Olney-Laytonville Road, Suite 6, Olney, MD 20832  
301.570.1483  
www.gpnet.com  
Project # 2200393.00  
PM TSS M.RMD E.N/A P.N/A S.TF

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
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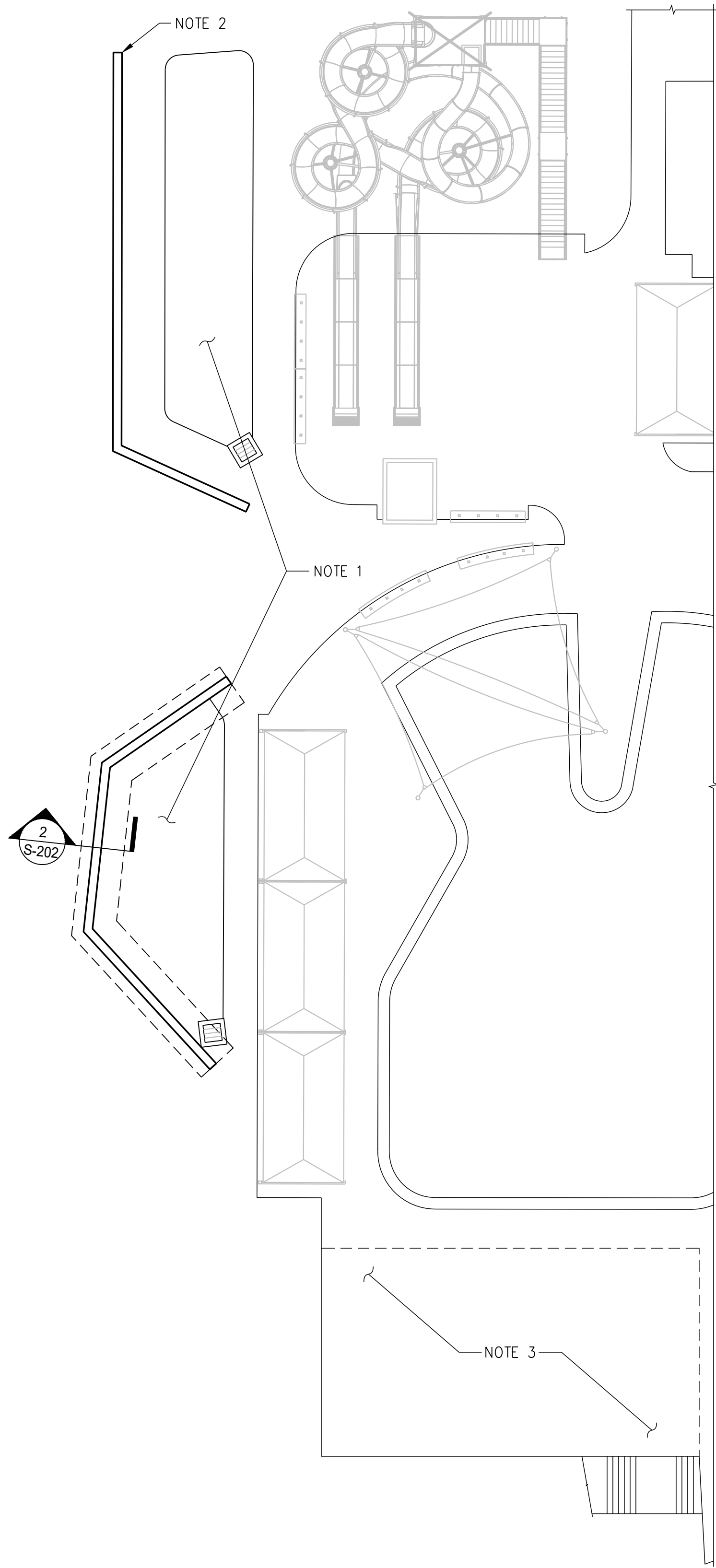
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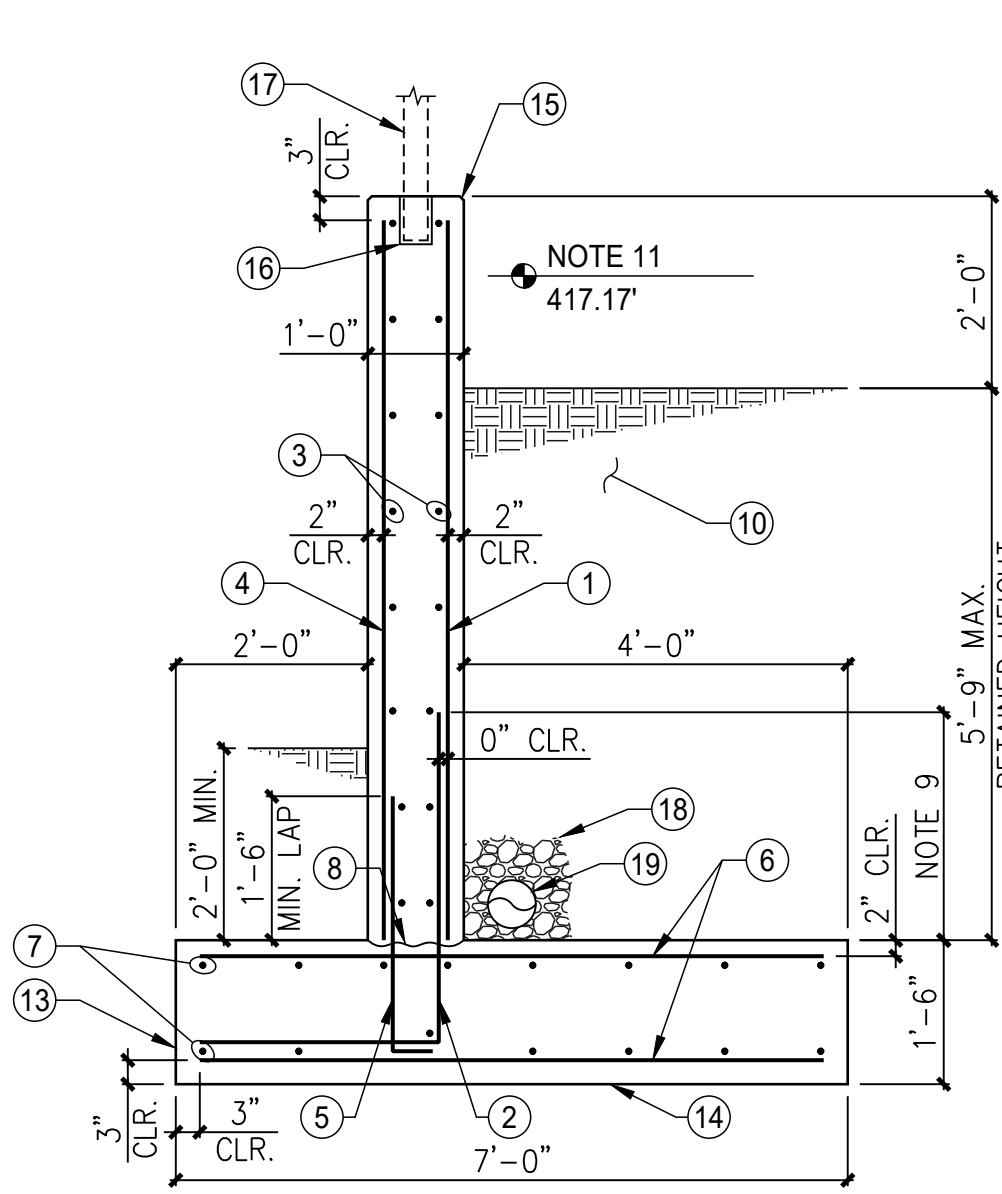




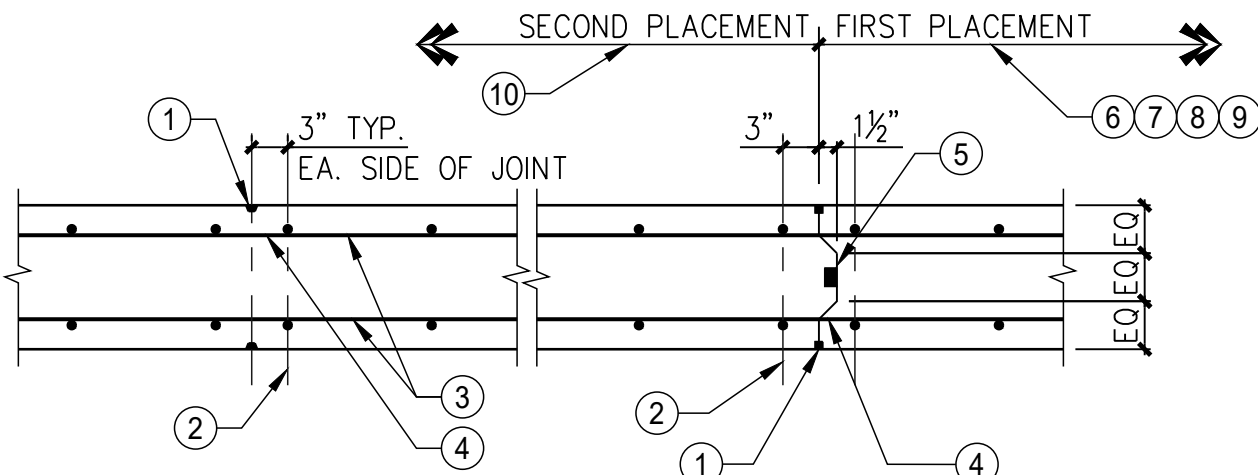
1 SITE RETAINING WALL KEY PLAN  
1/16" = 1'-0"

PLAN NOTES

- 1) NEW BIO-RETENTION AREA - SEE CIVIL.
- 2) NEW SEGMENTAL BLOCK RETAINING AREA DESIGNED BY OTHERS - SEE CIVIL.
- 3) EXISTING SUNNING DECK WITH PUMP ROOM BELOW.



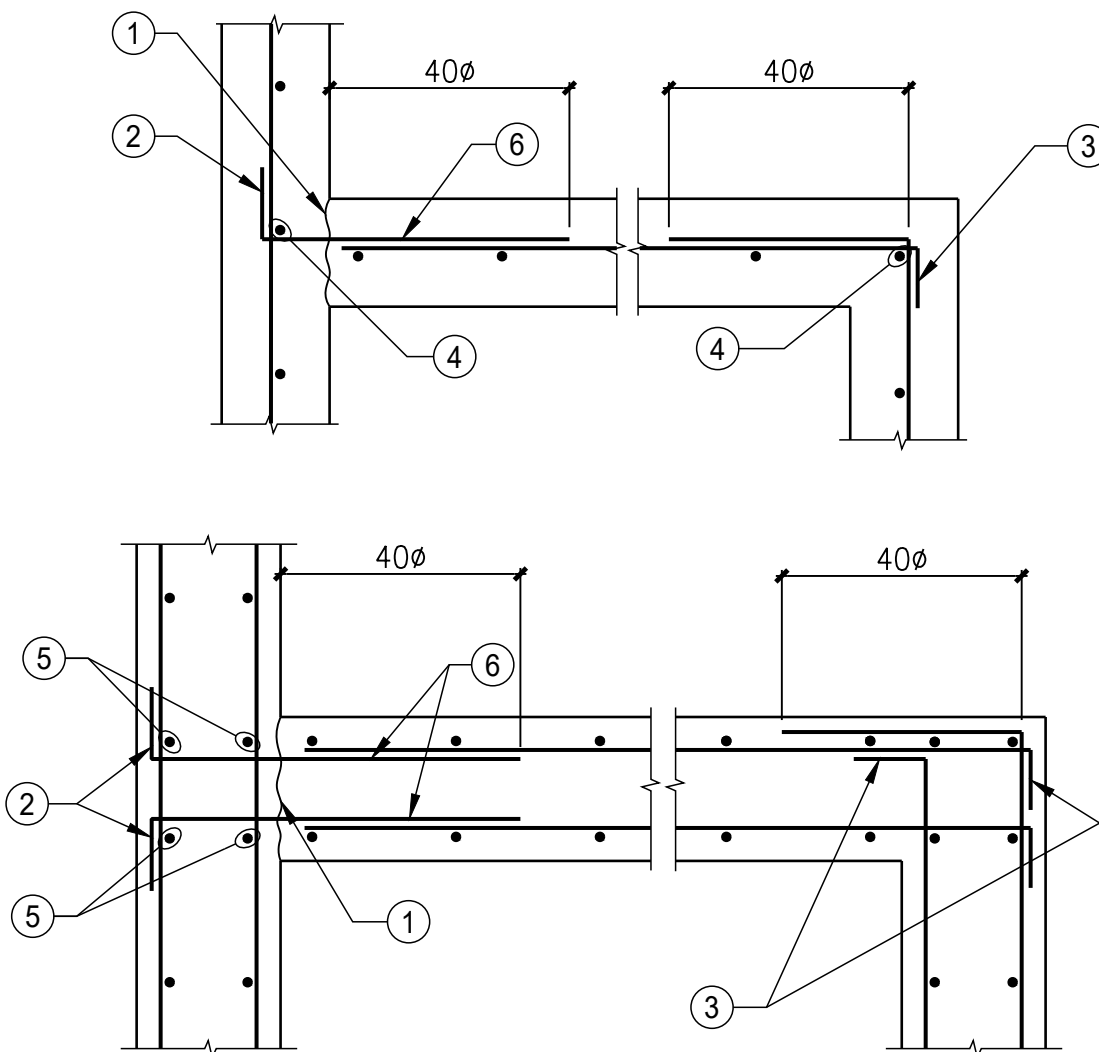
2 CANTILEVER RETAINING WALL  
1/2"=1'-0"



- CONTROL JOINT      CONSTRUCTION JOINT
- 1) 3/4"x 3/4" JOINT W/ SEALANT (EACH FACE).
  - 2) ADDITIONAL VERTICAL REINFORCEMENT.
  - 3) TYPICAL HORIZ. REINFORCEMENT.
  - 4) CUT ALTERNATING HORIZ. BARS BOTH FACES AT JOINTS.
  - 5) CONT. KEY W/ BENTONITE WATERSTOP.
  - 6) PROVIDE CONSTRUCTION JOINT OR CONTROL JOINT AT 25'-0" MAX. SPACING.
  - 7) LOCATE FIRST JOINT NO FURTHER THAN 10'-0" FROM CORNER.
  - 8) JOINT LOCATIONS AND DETAILS TO BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.
  - 9) DO NOT USE THIS DETAIL FOR SHEARWALLS OR WALLS DESIGNED TO SPAN HORIZONTALLY.
  - 10) PRIOR TO SECOND PLACEMENT OF WALL AT CONSTRUCTION JOINTS, ABRASIVE BLAST OR CHIP FIRST PLACEMENT FACE OF JOINT TO REMOVE LAITANCE, HONEY COMBING, ETC. CLEAN WITH WATER AND STIFF BRUSH AND MAKE SECOND PLACEMENT WHEN CONCRETE IS DAMP.

4 VERTICAL JOINTS CONCRETE WALL  
3/4"=1'-0"

- 1) #6@12" O.C.
- 2) #6 BAR DOWELS. (DOWELS MAY BE EXTENDED FULL HEIGHT OMITTING SEPARATE #6 WALL BARS).
- 3) #4@18" O.C.
- 4) #4@18" O.C.
- 5) #4@18" DOWELS.
- 6) #6@12" O.C.
- 7) #5@12" O.C.
- 8) ROUGHEN SURFACE AT COLD JOINT.
- 9) FOR TENSION LAP SPLICE SEE 5/S-202.
- 10) BIO-RETENTION AREA MATERIAL - SEE CIVIL.
- 11) MAX. WATER ELEVATION - SEE CIVIL.
- 12) NOT USED.
- 13) PLACE FOOTING AGAINST UNDISTURBED SOIL.
- 14) VERIFY SUBGRADE BY GEOTECH. ENGINEER.
- 15) CHAMFER CORNERS - TYPICAL.
- 16) PREFORMED OR CORE DRILLED FENCE POST HOLE. AT CONTRACTORS OPTION. EMBED FENCE POST 6" MINIMUM, PACK TIGHT WITH NON-SHRINK GROUT AND PROVIDE SEALANT AROUND POST AT TOP OF PAD.
- 17) FENCE POST - SEE CIVIL.
- 18) 1'-0"x1'-0" CONT. GRAVEL POCKET IN FILTER FABRIC.
- 19) 6"Ø PERFORATED DRAINAGE PIPE - SEE CIVIL.



3 REINFORCING AT WALL CORNERS  
3/4"=1'-0"

TENSION LAP SPLICE					
		28 DAY CONCRETE DESIGN STRENGTH (PSI)			
		3000		5000	
REINFORCING BAR SIZE		CASE I	CASE II	CASE I	CASE II
#4	TOP BARS	3'-1"	4'-8"	2'-5"	3'-7"
	OTHER BARS	2'-5"	3'-7"	1'-10"	2'-9"
#5	TOP BARS	3'-11"	5'-10"	3'-0"	4'-6"
	OTHER BARS	3'-0"	4'-6"	2'-4"	3'-6"
#6	TOP BARS	4'-8"	7'-0"	3'-7"	5'-5"
	OTHER BARS	3'-7"	5'-4"	2'-9"	4'-2"

- 1) THIS DETAIL DOES NOT APPLY TO COLUMN VERTICAL BARS.
- 2) TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
- 3) CASE I:
  - a. BEAMS - CONCRETE COVER ≥ d<sub>b</sub>, CENTER-TO-CENTER BAR SPACING ≥ 2 d<sub>b</sub> AND WITH STIRRUPS THROUGHOUT l<sub>d</sub> NOT LESS THAN THE CODE MINIMUM.
  - b. OTHER ELEMENTS - CONCRETE COVER ≥ d<sub>b</sub> AND CENTER-TO-CENTER BAR SPACING ≥ 3 d<sub>b</sub>.
- 4) CASE II: ALL OTHER CASES.
- 4) FOR LIGHTWEIGHT AGGREGATE, MULTIPLY ABOVE VALUES BY 1.3.

5 TENSION LAP SPLICE LENGTH  
N.T.S.

- 1) PROVIDE WEAKENED PLANE CONTROL JOINTS OR CONSTRUCTION JOINTS AT 25'-0"± ON CENTER PER DETAIL 4/S-202. LOCATE TO COINCIDE WITH JOINTS OF ADJACENT MATERIALS (FACE BRICK, SIDE WALKS, ETC.).
- 2) ALL LAP SPLICES OF TENSION FACE (UPPER GRADE SIDE) REINFORCING AND HORIZONTAL REINFORCING SHALL BE TENSION LAP SPLICES. SEE 5/S-203 FOR SCHEDULE.
- 3) TOP OF FOOTING SURFACE AT WALL SHALL BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4".
- 4) CHAMFER ALL EXPOSED WALL CORNERS.
- 5) DO NOT BACKFILL UNTIL CONCRETE REACHES 100% f'<sub>c</sub> AND FRONT FACE OF WALL HAS BEEN BACKFILLED.

6 CONCRETE RETAINING WALL NOTES  
N.T.S.

LSG LANDSCAPE ARCHITECTURE

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GPI

Greenman-Pedersen, Inc.

Engineering and Construction Services  
3423 Olney-Laytonville Road, Suite 6, Olney, MD 20832  
301.570.1460  
Project # 2200393.00  
PM: TSS M: RMD E: N/A P: N/A S: TF

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DEPARTMENT OF RECREATION AND PARKS

OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

SITE RETAINING WALL KEY PLAN & DETAILS

DocuSigned by:



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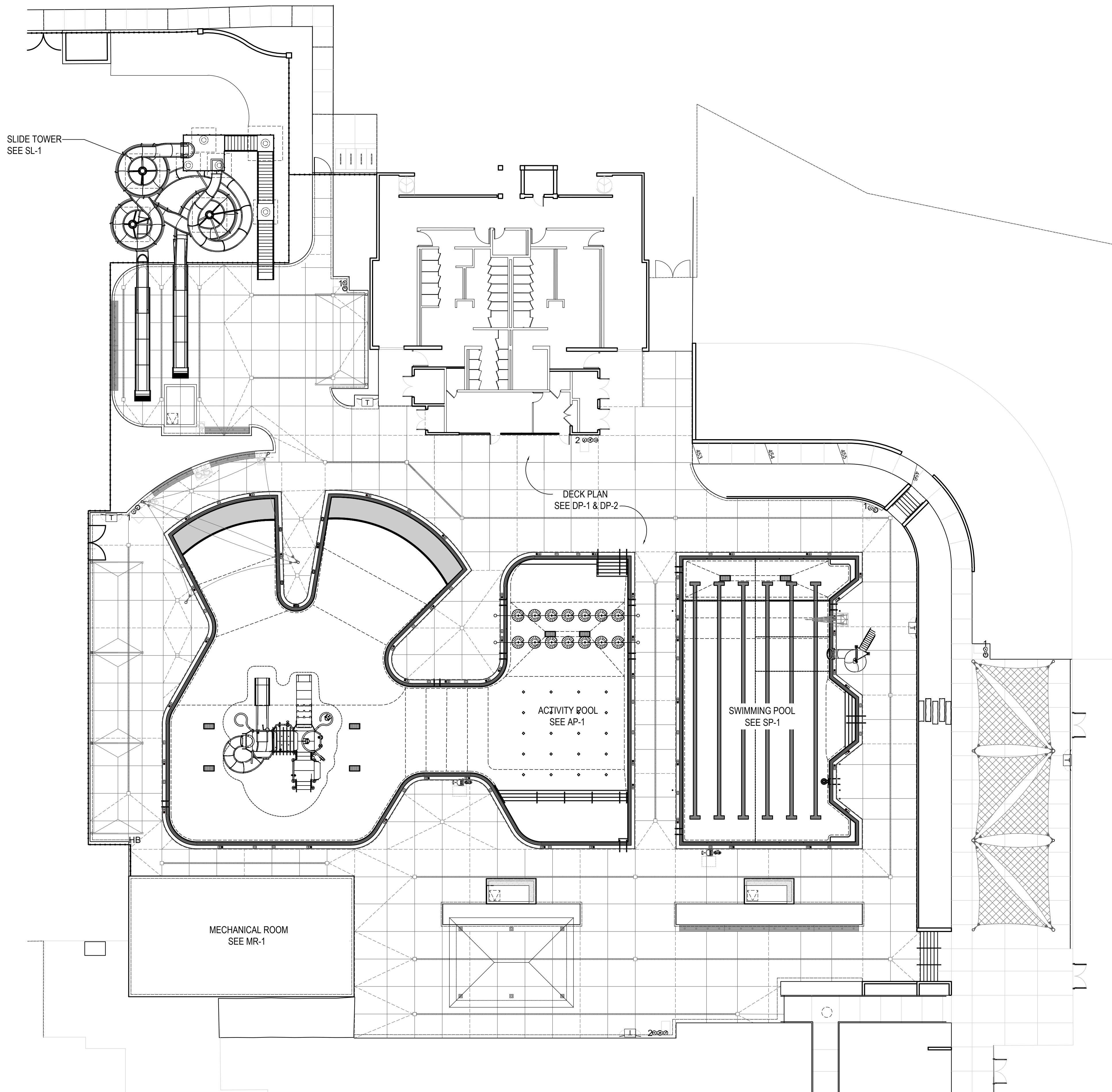
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NFC





#### ACTIVITY POOL DATA / CLASS D-2

SURFACE AREA	=	9,762 SQ. FT.
PERIMETER	=	617 FT.
DEPTH	=	0'-0" TO 4'-0"
VOLUME	=	131,285 GAL.
REQUIRED 2 HR TURNOVER	=	1,095 GPM
PROPOSED TURNOVER	=	1,200 GPM

#### SWIMMING POOL DATA / CLASS B

SURFACE AREA	=	3,752 SQ. FT.
PERIMETER	=	280 FT.
DEPTH	=	3'-6" TO 5'-2"
VOLUME	=	127,108 GAL.
REQUIRED 6 HR TURNOVER	=	354 GPM
PROPOSED TURNOVER	=	400 GPM

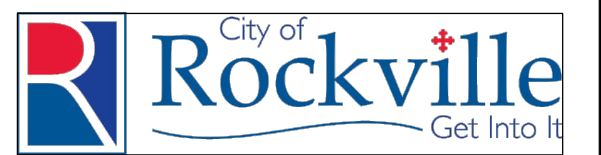
#### SLIDE DATA / CLASS D-3

SLIDE LENGTH:	SLIDE HEIGHT:
SLIDE A: 209.94 FT. (42" OPEN BODY SLIDE)	SLIDE A & B: 26.25 FT.
SLIDE B: 144.468 FT. (32" ENCLOSED BODY SLIDE)	SLIDE TOWER HEIGHT: TO PLATFORM: 26.25 FT.
8'-0"x 11'-0"x 11'-0" DEEP BALANCE TANK	= 5,266 GAL.
60 MIN. TURNOVER	= 88 GPM

#### LSG LANDSCAPE ARCHITECTURE

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355 MARTINS LANE  
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#### OVERALL LAYOUT PLAN

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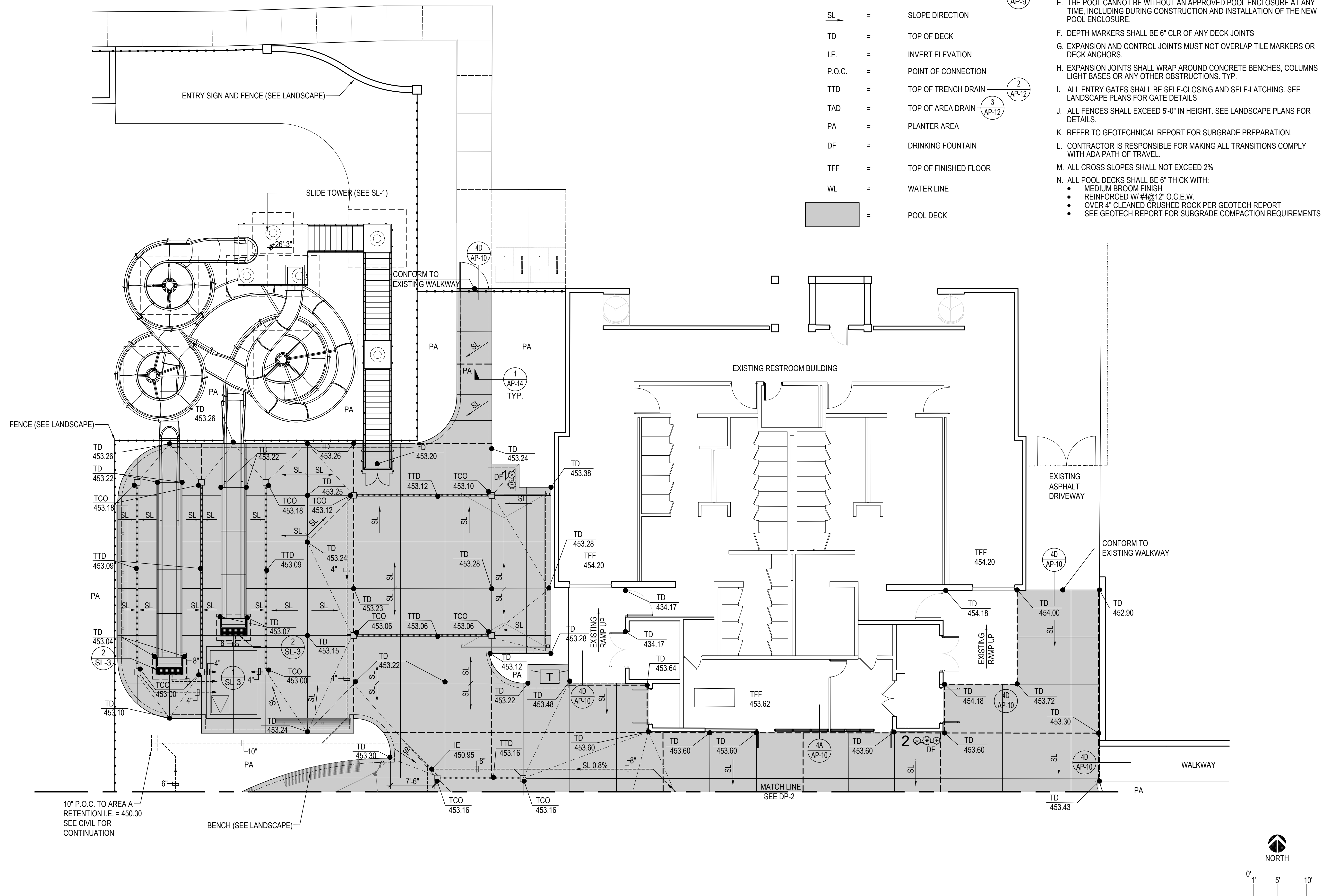
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#### OVERALL LAYOUT PLAN

1/16"=1'-0"



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ARCHITECTURE

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DEPARTMENT OF  
RECREATION AND PARKS

## OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

DECK PLAN  
NORTH

PERMIT SET  
NFC

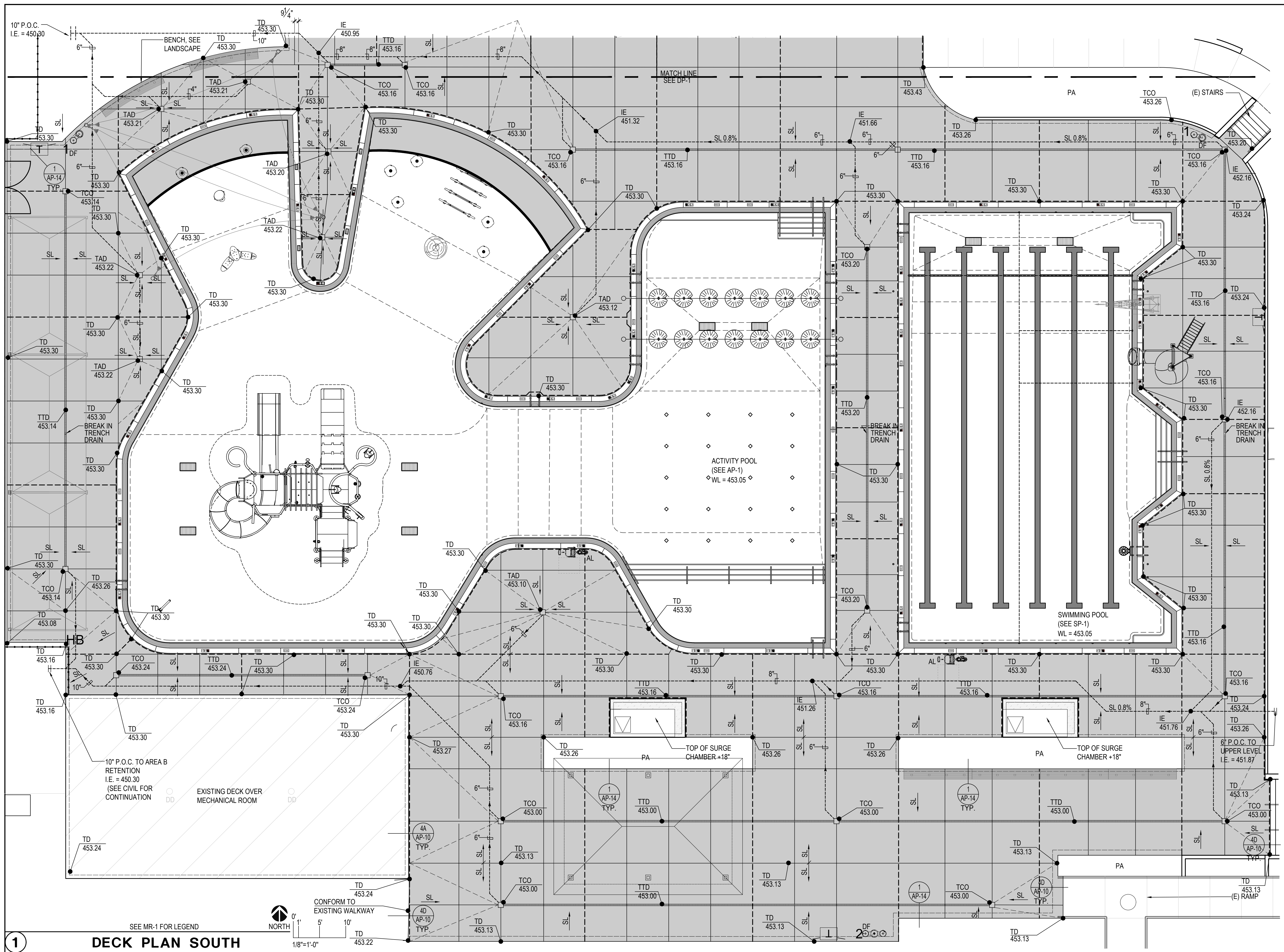
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ARCHITECTURE

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SWIMMING POOL DATA / CLASS B

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PERIMETER	=	280 FT.
DEPTH	=	3'-6" TO 5'-2"
VOLUME	=	127,108 GAL.
REQUIRED 6 HR TURNOVER	=	354 GPM
PROPOSED TURNOVER	=	400 GPM

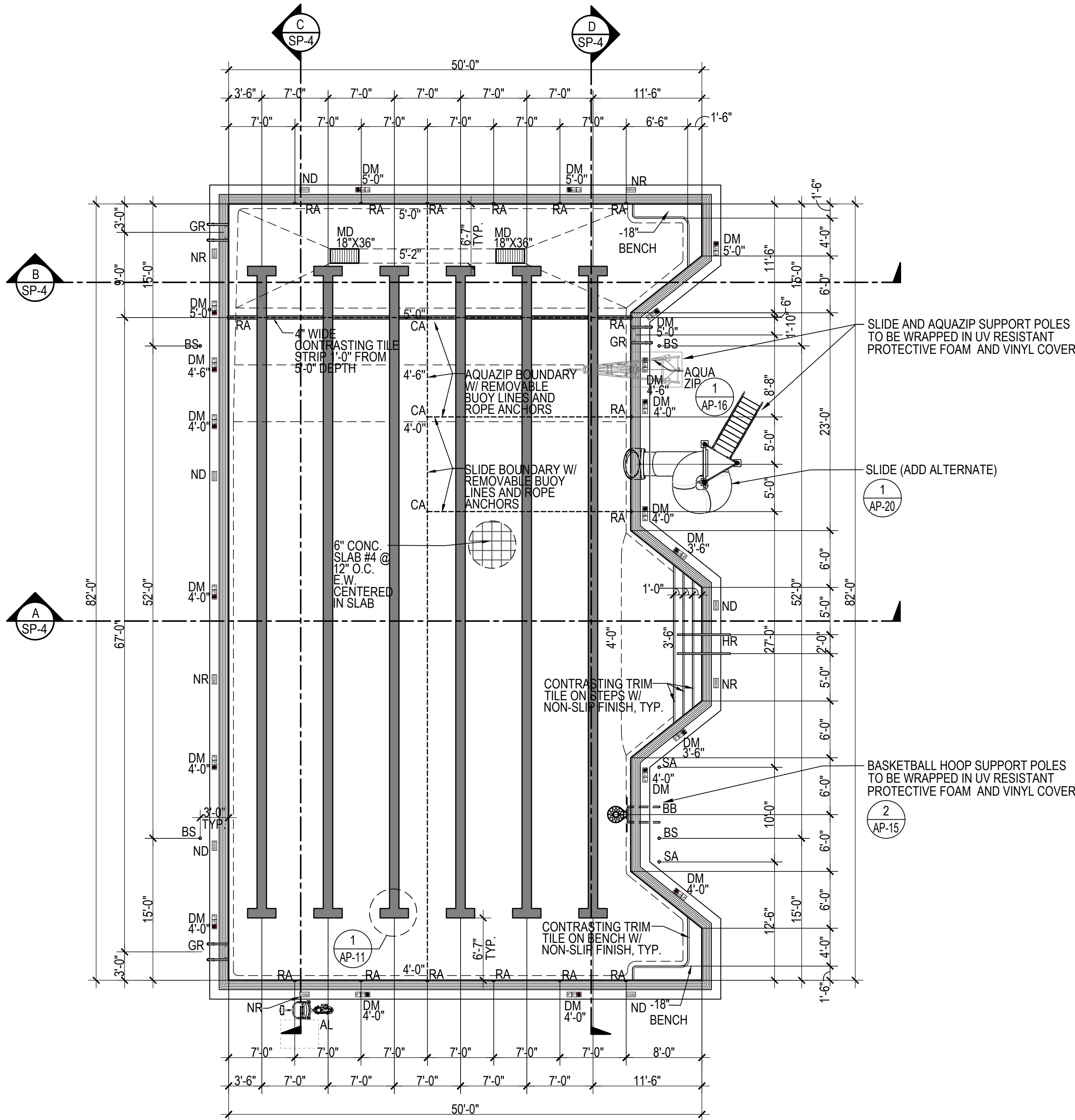
DEFERRED APPROVAL

STRUCTURAL DESIGN FOR THE FOLLOWING STRUCTURES IS A DEFERRED APPROVAL. CONTRACTOR TO PROVIDE AND SUBMIT SHOP DRAWINGS AND STRUCTURE CALCULATIONS FOR REVIEW BY ARCHITECT, BLDG. AND HEALTH DEPT. ALL STRUCTURAL COMPONENTS SHALL BE PAINTED STAINLESS STEEL W/ STAINLESS STEEL HARDWARE. COLORS TO BE CHOSEN BY ARCHITECT AND OWNER. INSTALL PER MANUFACTURES INSTALLATION INSTRUCTIONS FOR A FULLY FUNCTIONING FEATURE.

- POOL SLIDE (ADD ALTERNATE)
- AQUA ZIP
- RAYNER SAFETY MIGHTY MESH TENSION POOL COVERS (OR EQUAL)

LEGEND

DM	=	DEPTH MARKER	1	AP-11
NR	=	'NO RUNNING'	2	AP-11
RA	=	ROPE ANCHOR	3	AP-12
MD	=	MAIN DRAIN	1	AP-13
HR	=	HAND RAIL	1	AP-6
AL	=	ACCESSIBLE LIFT	1	AP-9
BS	=	BACKSTROKE STANCHION	1	AP-12
GR	=	GRABRAIL	2	AP-9
CA	=	RECESSED FLOOR CUP ANCHOR	3	AP-12
SA	=	STANCHION ANCHOR	2	AP-9
BB	=	BASKETBALL BACKBOARD	2	AP-15



SWIMMING POOL LAYOUT

1/8"=1'-0"

DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

SWIMMING POOL  
LAYOUT

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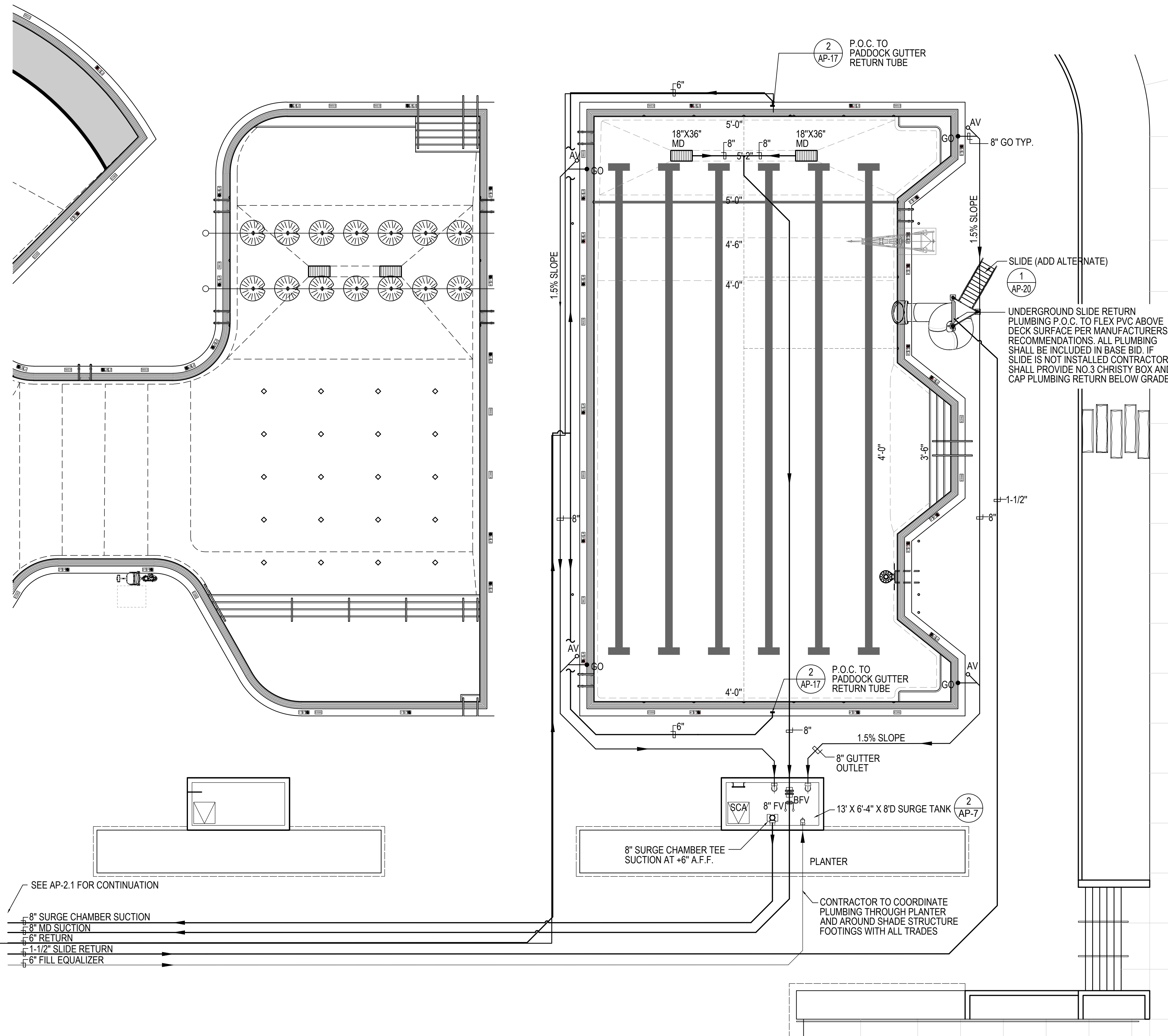
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Sheet No.

SP-1

BID SET 02/23/2024





SWIMMING POOL DATA / CLASS B

SURFACE AREA	=	3,752 SQ. FT.
PERIMETER	=	280 FT.
DEPTH	=	3'-6" TO 5'-2"
VOLUME	=	127,108 GAL.
REQUIRED 6 HR TURNOVER	=	354 GPM
PROPOSED TURNOVER	=	400 GPM

LEGEND

AV	=	AIR VENT	4 AP-13
MD	=	MAIN DRAIN	1 AP-13
GO	=	GUTTER OUTLET	3 AP-14

SWIMMING POOL SURGE DATA

REQUIRED SURGE CAPACITY (PER ISPSC 315.3 / 1 GAL PER SQ FT)	=	3,752 GAL.
SURGE IN PERIMETER GUTTER (274 SQ FT X 0.916' H X 7.48 GAL/CUBIC FT)	=	1,877 GAL.
SURGE IN SURGE CHAMBER (78 SQ FT X 5' H X 7.48 GAL/CUBIC FT)	=	2,917 GAL.
TOTAL SUPPLIED SURGE 4,794 GAL. > 3,752 GAL. (PER ISPSC 315.3 / 3,752 GAL. REQ.)	=	4,794 GAL.

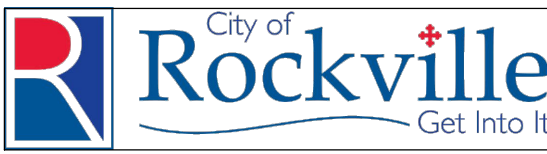
SWIMMING POOL EQUIPMENT DATA

MAIN DRAIN FLOW CAPACITY PROVIDED (PER ISPSC 704.8 - MUST BE CAPABLE OF 100% OF PUMP FLOW = 400 GPM)	=	1,040 GAL.
GUTTER DESIGN (PER ISPSC 315.4 - 50% OF POOL PERIMETER TO HAVE GUTTER)	=	100% PROVIDED
GUTTER OUTLET FLOW PROVIDED (PER ISPSC 407.3.1 - GUTTER MUST ACCOMMODATE 125% OF SYSTEM FLOW)	=	500 GAL.
8" GUTTER OUTLET FLOW CAPACITY	=	1,282 GAL.
1.428 (GAL / CUBIC FT/SEC @ 1% SLOPE) X 448.8	=	640.88 GPM
640.88 GPM / 50% SAFETY FACTOR	=	320.44 GPM PER OUTLET
(4) 8" OUTLETS PROVIDED (320.44 X 4)	=	1,282 GPM
PUMP FLOW = 400 GPM X 125%	=	500 GPM
1,282 GPM > 500 GPM		
(4) 8" GUTTER OUTLETS MEET MINIMUM REQUIRED FLOW RATE W/ 50% SAFETY FACTOR		

LSG LANDSCAPE  
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SWIMMING POOL  
PLUMBING

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Drawn By: AD, HW		
Checked By: AD		
Date: 5/19/2023		

Sheet No.

SP-2

SWIMMING POOL PLUMBING PLAN

1/8"=1'-0"



50'-0"

7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 3'-6" 8'-0"

3'-6" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 3'-6"

4  
AP-11

RA RA RA RA RA RA

5'-0" 5'-0" 5'-0" 5'-0" 5'-0" 5'-0" 5'-0" 5'-0"

4 2 1  
AP-5 AP-5 AP-5

18" X 36" MD

SPRING LINE

18" X 36" MD

CONTRASTING TRIM TILE ON BENCH EDGE TYP.

4" LAYER OF CLEANED CRUSHED ROCK OVER COMPACTED SUBGRADE PER GEOTECH REPORT

82'-0"

3'-0"

62'-0"

5'-0"

9'-0"

3'-0"

GR

4'-0"

4'-0"

5'-0"

5'-0"

5'-0"

5'-0"

MD 18"x36"

4" LAYER OF CLEANED CRUSHED ROCK OVER COMPACTED SUBGRADE PER GEOTECH REPORT

3 CUP ANCHOR, TYP. (SEE PLAN FOR LOCATIONS)

AP-5

AP-5

AP-5

AP-12

RA

RA

Plan view of the bridge deck showing dimensions and material specifications. The deck is 82'-0" wide. Key dimensions include: 1'-6" at the left and right ends; 10'-0" and 12'-0" segments on the left; 2'-4", 5'-0", 5'-6", 10'-0", 11'-0", 2'-0", 11'-0", 12'-0", and 10'-0" segments in the center; and 49'-6" for the main deck width. A 1'-6" segment is also shown on the right. The deck is supported by a 4" layer of cleaned crushed rock over compacted subgrade. A 18" depth bench is indicated on the left. The deck is divided into sections labeled 4, 2, and 1, with AP-5 and AP-5 labels. The deck is also labeled with 18" DEPTH BENCH and 4" LAYER OF CLEANED CRUSHED ROCK OVER COMPACTED SUBGRADE PER GEOTECH REPORT.

**D** **SWIMMING POOL SECTION**  $\frac{1}{8}"=1'-0"$

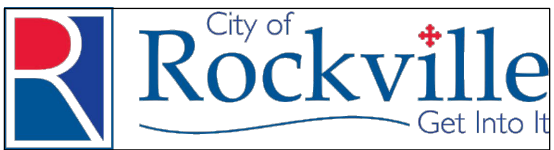
Sheet No. SP-3



LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

SLIDE  
LAYOUT

PERMIT SET  
NFC

1	65% CONSTRUCTION DOCUMENT 06/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	PERMIT SET 12/08/2023

No.	Description	Date
Revisions		

Project Number:	22.00036.00
Scale:	1/8" = 1'-0"
Drawn By:	AD, HW
Checked By:	AD
Date:	5/19/2023

Sheet No. SL-1

SLIDE DATA

SLIDE LENGTH:	SLIDE HEIGHT:
SLIDE A: 209.94 FT. (42" OPEN BODY SLIDE)	SLIDE A & B: 26.25 FT.
SLIDE B: 144.468 FT. (32" ENCLOSED BODY SLIDE)	SLIDE TOWER HEIGHT: TO PLATFORM: 26.25 FT.

DEFERRED APPROVAL

DESIGN OF SLIDE AND SLIDE TOWER ARE BY SPASHTACULAR AND ARE DEFERRED APPROVAL ITEMS. THE CONTRACTOR SHALL SUBMIT THE SLIDE AND TOWER PLANS AND STRUCTURAL CALCULATIONS TO THE OWNER, ARCHITECT, HEALTH DEPARTMENT AND BUILDING DEPARTMENT FOR APPROVAL. ALL STEEL COMPONENTS SHALL BE GALVANIZED AND PAINTED. PROVIDE APPROVED SIGNAGE, LIFEGUARD PLAN, DETAILS OF COMMUNICATION BETWEEN GUARDS AT TOP AND BOTTOM OF SLIDES, INCLUDING EMERGENCY SHUTDOWN FOR SLIDES, AND ALL OTHER MARYLAND DIVISION OF LABOR AND INDUSTRY AMUSEMENT RIDE SAFETY INSPECTION / MONTGOMERY COUNTY REQUIRED WORK.

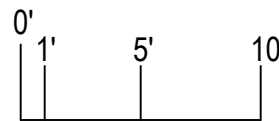
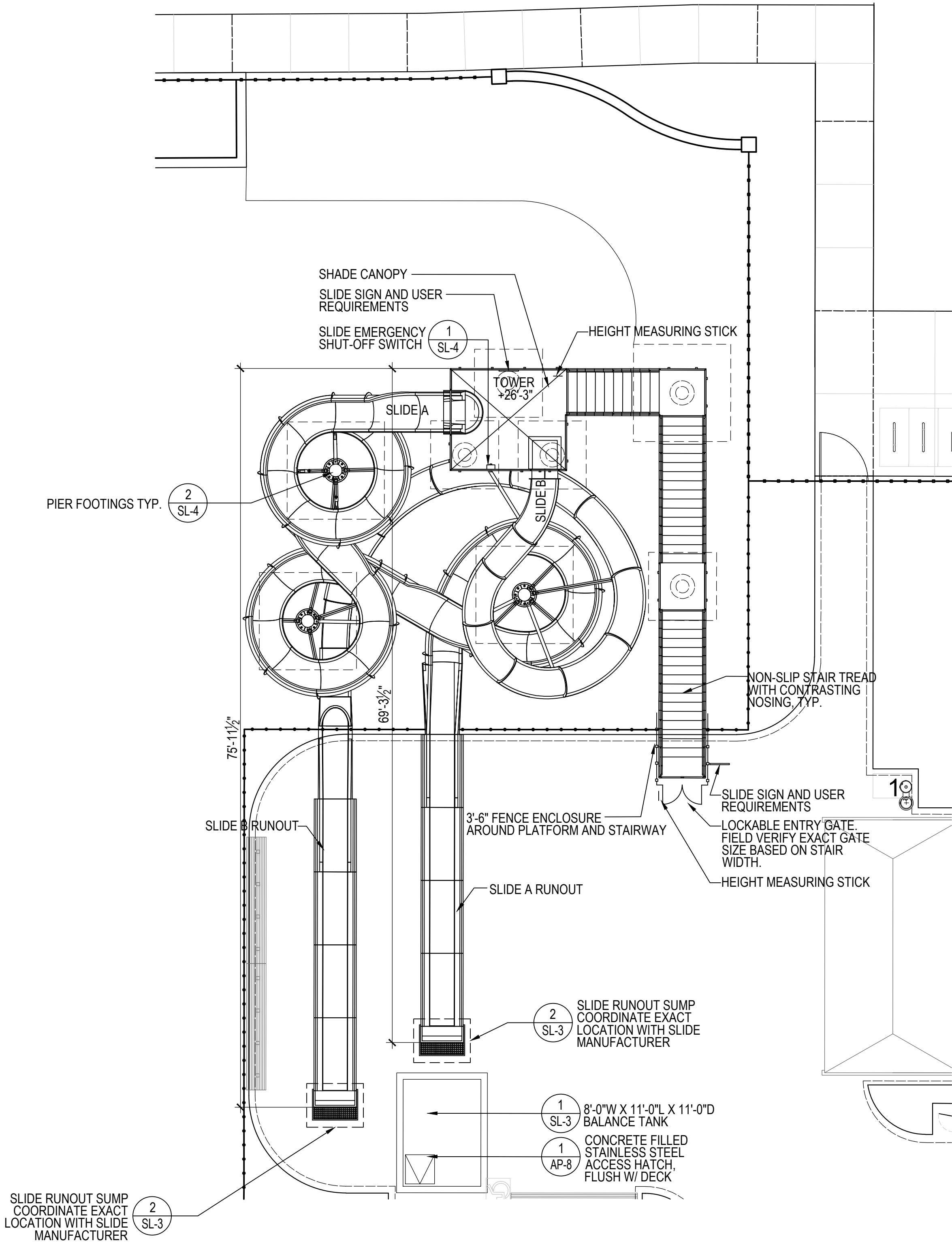
GENERAL NOTES

- ALL PIPES INTO SLIDE SUMPS SHALL EXTEND A MIN. 6" FROM SIDEWALL TO ALLOW FOR CAPPING OF PIPING FOR WINTERIZATION PROCEDURES. DURING WINTER THE PIPING TO BALANCE TANK SHALL BE CAPPED AND 4" DRAIN DOWN PIPING UNCAPPED. VISA VERSA DURING ON SEASON USAGE.
- REFER TO SPASHTACULAR PLANS FOR SLIDES, SUPPORTS AND TOWER, FOOTINGS AND REINFORCEMENT TYP.

SIGN REQUIREMENTS

A SIGN SHALL BE POSTED AT THE TOP AND BOTTOM OF THE TOWER WITH THE FOLLOWING RULES:  
(COORDINATE LOCATION WITH HEALTH DEPT AND OWNER)

- CAUTION - ONE RIDER AT A TIME. WAIT UNTIL THE LANDING AREA IS CLEAR BEFORE ENTERING THE SLIDE
- SLIDE FEET FIRST IN THE SITTING POSITION OR LYING ON YOUR BACK!
- DO NOT ATTEMPT TO STOP IN THE SLIDE
- LEAVE THE PLUNGE AREA IMMEDIATELY
- ALWAYS EXIT THE SLIDE FEET FIRST! DO NOT SOMERSAULT, TWIST OR DIVE FROM THE END OF THE SLIDE.
- WATER AND ALCOHOL DO NOT MIX. NO PERSON UNDER THE INFLUENCE OF ALCOHOL MAY USE THE SLIDE
- MINIMUM USER HEIGHT

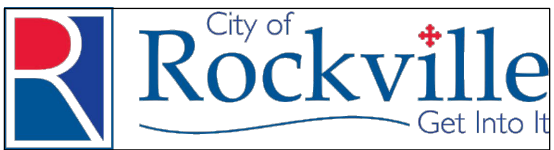




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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

SLIDE  
PLUMBING

PERMIT SET  
NFC

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Date:	5/19/2023

Sheet No. SL-2

SLIDE DATA / CLASS D-3

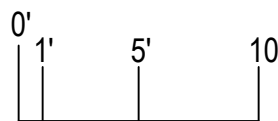
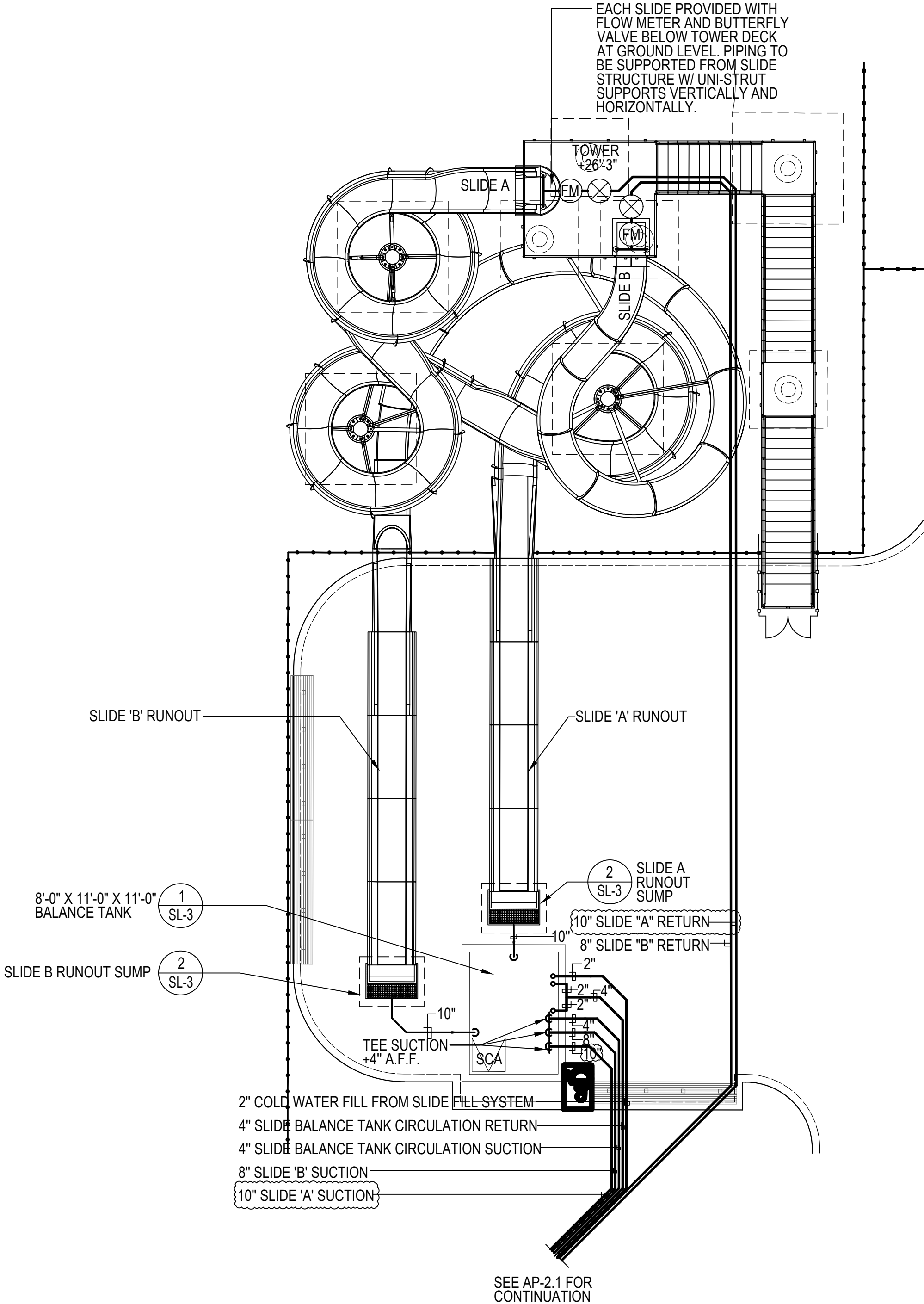
SLIDE LENGTH:	SLIDE HEIGHT:
SLIDE A: 209.94 FT. (42" OPEN BODY SLIDE)	SLIDE A & B: 26.25 FT.
SLIDE B: 144.468 FT. (32" ENCLOSED BODY SLIDE)	SLIDE TOWER HEIGHT: TO PLATFORM: 26.25 FT.

SLIDE BALANCE TANK DATA

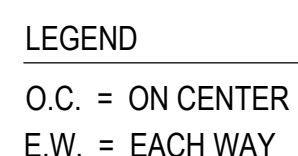
SLIDE 'A' BOOSTER PUMP	=	1,000 GPM
SLIDE 'B' BOOSTER PUMP	=	500 GPM
CIRCULATION PUMP RATE	=	130 GPM
TOTAL WATER FLOW	=	1,630 GPM
8'-0"x 11'-0"x 11'-0" DEEP BALANCE TANK	=	5,266 GAL.
60 MIN. TURNOVER (PER ISPSC 604.2)	=	88 GPM
PROPOSED TURN OVER	=	100 GPM

GENERAL NOTES

- ALL PIPES INTO SLIDE SUMPS SHALL EXTEND A MIN. 6" FROM SIDEWALL TO ALLOW FOR CAPPING OF PIPING FOR WINTERIZATION PROCEDURES. DURING WINTER THE PIPING TO BALANCE TANK SHALL BE CAPPED AND 4" DRAIN DOWN PIPING UNCAPPED. VISA VERSA DURING ON SEASON USAGE.
- REFER TO SPLASHTACULAR PLANS FOR SLIDES, SUPPORTS AND TOWER, FOOTINGS AND REINFORCEMENT TYP.






$$1/2"=1'-0"$$

$$1'' = 1' - 0''$$


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DEPARTMENT OF  
RECREATION AND PARKS

## OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

## DETAILS

# PERMIT SET NFC

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4	PERMIT SET 12/08/2023

No.	Description	Date
Revisions		

Project Number:	22.00036.00
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Date:	5/19/2023

Sheet No.

SL-3

**BID SET 02/23/2024**





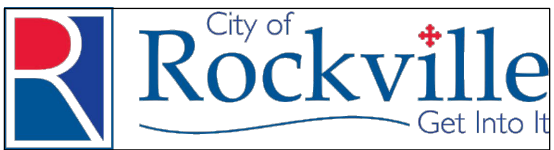
SL-4



LSG LANDSCAPE  
ARCHITECTURE

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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

ACTIVITY POOL  
LAYOUT

PERMIT SET  
NFC

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No.	Description	Date
Revisions		

Project Number: 22.00036.00  
Scale: 1/8" = 1'-0"  
Drawn By: AD, HW  
Checked By: AD  
Date: 5/19/2023

Sheet No.

AP-1

ACTIVITY POOL DATA / CLASS D-2

SURFACE AREA	=	9,762 SQ. FT.
PERIMETER	=	617 FT.
DEPTH	=	0'-0" TO 4'-0"
VOLUME	=	131,285 GAL.
REQUIRED 2 HR TURNOVER	=	1,095 GPM
PROPOSED TURNOVER	=	1,200 GPM

LEGEND

DM	=	DEPTH MARKER	1	AP-11
NR	=	'NO RUNNING'	2	AP-11
ND	=	'NO DIVING'	2, 3	AP-11
MD	=	MAIN DRAIN	1	AP-13
HR	=	HAND RAIL	4	AP-12
AL	=	ACCESSIBLE LIFT	1	AP-9
GR	=	GRAB RAIL	2	AP-9
RA	=	ROPE ANCHOR	3	AP-12
	=	DIAMOND BRIGHT PEBBLE FINISH AT BEACH ENTRY AS SHOWN		

DEFERRED APPROVAL

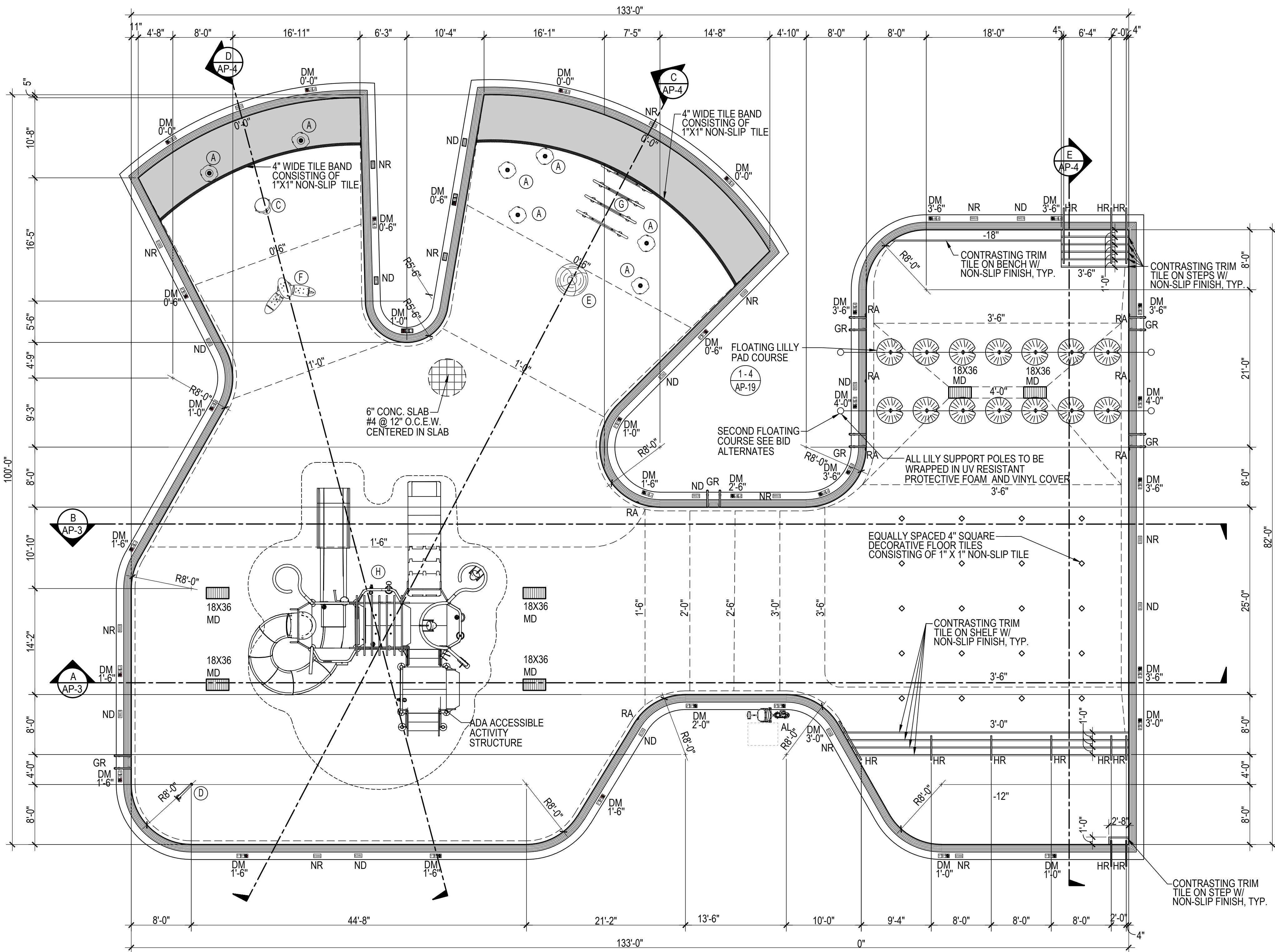
STRUCTURAL DESIGN FOR THE FOLLOWING STRUCTURES IS A DEFERRED APPROVAL. CONTRACTOR TO PROVIDE AND SUBMIT SHOP DRAWINGS AND STRUCTURE CALCULATIONS FOR REVIEW BY ARCHITECT, BLDG. AND HEALTH DEPT. ALL STRUCTURAL COMPONENTS SHALL BE PAINTED STAINLESS STEEL W/ STAINLESS STEEL HARDWARE. COLORS TO BE CHOSEN BY ARCHITECT AND OWNER. INSTALL PER MANUFACTURES INSTALLATION INSTRUCTIONS FOR A FULLY FUNCTIONING FEATURE.

- LILY PAD COURSE
- ACTIVITY STRUCTURE
- RAYNER SAFETY MIGHTY MESH TENSION POOL COVERS (OR EQUAL)

PRODUCT LEGEND

	PRODUCT CODE	QTY	TOTAL FLOW (EA.)	
(A)	FOAM JET 'CRYSTAL FOUNTAINS' NCB-200 (3" MIN, 5" MAX WATER DEPTH)	7	40 GPM	3 AP-20
(B)	NOT USED			
(C)	HOPPER 'WATERPLAY' 0011-0839	1	10 GPM	1 AP-18
(D)	BAMBOO DOWN JET 'SPLASHTACULAR'	1	40 GPM	3 AP-18
(E)	FUN-BRELLA 'WATERPLAY' 0010-0485	1	14 GPM	2 AP-17
(F)	WATER TROUGH GARDEN 'SPLASHTACULAR'	1	10 GPM	2 AP-18
(G)	SPIRAL TUNNEL 'WATERPLAY' 0010-0377	1	40 GPM	2 AP-20
(H)	'SPLASHTACULAR' ACTIVITY STRUCTURE	1	700 GPM	1 AP-15
(ALL EQUIPMENT LISTED SHALL BE CONSIDERED OR APPROVED EQUAL)		TOTAL FLOW	1,094 GPM	

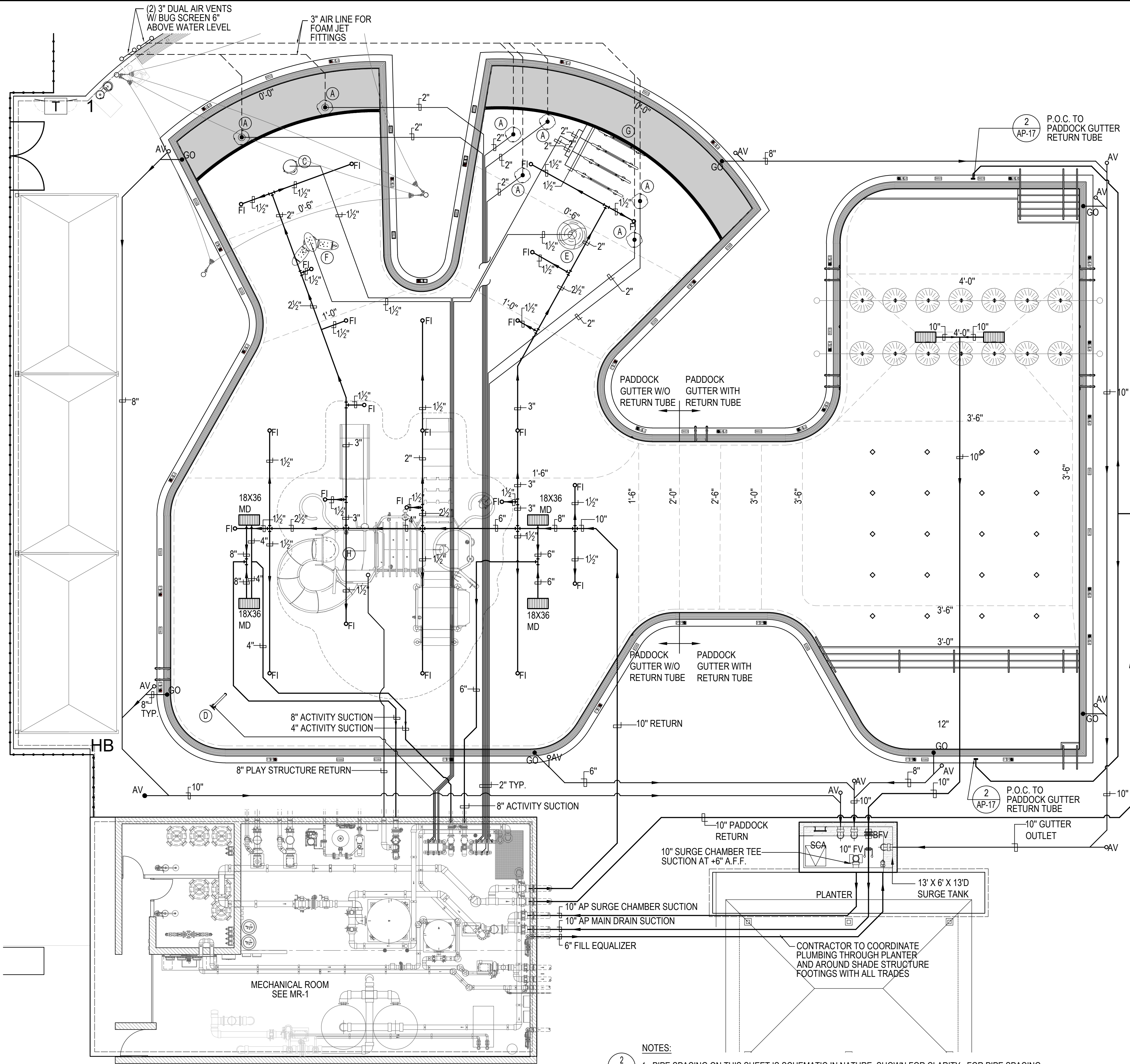
ALL EQUIPMENT LISTED IS 'OR EQUAL'



ACTIVITY POOL LAYOUT

1/8"=1'-0"





- NOTES:
1. PIPE SPACING ON THIS SHEET IS SCHEMATIC IN NATURE. SHOWN FOR CLARITY. FOR PIPE SPACING REQUIREMENTS, REFER TO DETAIL.
  2. THIS PLAN ILLUSTRATES THE PROPOSED WATER FEATURE PIPING ROUTES FROM THE MECHANICAL ROOM TO INDIVIDUAL FITTINGS. COORDINATE ALL PIPING WITH BUILDING FOOTINGS, SITE UTILITIES INCLUDING PIPING, CONDUITS/STRUCTURES AND THE LIKE. COORDINATE ALL PIPING ELEVATIONS WITH ALL SITE UTILITIES.
  3. ALL PIPING BELOW GRADE SHALL BE SCH. 40 PVC. ALL PIPING ABOVE GRADE SHALL BE SCH. 80 PVC.
  4. ALL PIPING SHALL BE EQUALLY SPACED AND PIPED TO EACH MANIFOLD AT EQUAL INTERVALS TO ENSURE AN EVEN AND HYDRAULICALLY BALANCED SYSTEM.
  5. COORDINATE DEPTH CHARGE AIR TUBING IN FIELD W/ MANUFACTURER.
  6. ALL PIPING ABOVE GRADE SHALL BE SECURED AND SUPPORTED W/ PIPE STANDS AND/OR BRACING.

#### ACTIVITY POOL DATA / CLASS D-2

SURFACE AREA	=	9,762 SQ. FT.
PERIMETER	=	617 FT.
DEPTH	=	0'-0" TO 4'-0"
VOLUME	=	131,285 GAL.
REQUIRED 2 HR TURNOVER (PER ISPSC 604.2 / 2HR MIN)	=	1,095 GPM
PROPOSED TURNOVER	=	1,200 GPM

#### ACTIVITY POOL SURGE DATA

REQUIRED SURGE CAPACITY (PER ISPSC 315.3 / 1 GAL PER SQ FT)	=	9,672 GAL.
SURGE IN PERIMETER GUTTER (596 SQ FT X 0.916" H X 7.48 GAL/CUBIC FT)	=	4,272 GAL.
SURGE IN SURGE CHAMBER (78 SQ FT X 10" H X 7.48 GAL/CUBIC FT)	=	5,834 GAL.
TOTAL SUPPLIED SURGE 10,106 GAL. > 9,762 GAL. (PER ISPSC 315.3 / 9,762 GAL. REQ.)	=	10,106 GAL.

#### ACTIVITY POOL EQUIPMENT DATA

FLOOR INLETS PROVIDED (PER ISPSC 407.4.2 - 20 FT MIN SPACING)	=	22
MAIN DRAIN FLOW CAPACITY PROVIDED (PER ISPSC 704.8 - MUST BE CAPABLE OF 100% OF PUMP FLOW = 832 GPM)	=	2,080 GAL.
GUTTER DESIGN (PER ISPSC 315.4 - 50% OF POOL PERIMETER TO HAVE GUTTER)	=	100% PROVIDED
GUTTER OUTLET FLOW PROVIDED (PER ISPSC 407.3.1 - GUTTER MUST ACCOMMODATE 125% OF SYSTEM FLOW)	=	2,243 GAL.
8" GUTTER OUTLET FLOW CAPACITY	=	2,243 GAL.
1,428 (GAL / CUBIC FT/SEC @ 1% SLOPE) X 448.8	=	640.88 GPM
640.88 GPM / 50% SAFETY FACTOR	=	320.44 GPM PER OUTLET
(7) 8" OUTLETS PROVIDED	=	2,243 GPM
PUMP FLOW = 1,250 GPM X 125%	=	1,562 GPM
2,243 GPM > 1,562 GPM	=	
(7) GUTTER OUTLETS MEET MINIMUM REQUIRED FLOW RATE W/ 50% SAFETY FACTOR	=	

#### LEGEND

AV	=	AIR VENT	4 AP-13
MD	=	MAIN DRAIN	1 AP-13
FI	=	FLOOR INLET	2 AP-13
GO	=	GUTTER OUTLET	3 AP-14

#### PRODUCT LEGEND

	PRODUCT CODE	QTY	TOTAL FLOW (EA.)	
(A)	FOAM JET 'CRYSTAL FOUNTAINS' WMO-104	7	40 GPM	3 AP-20
(B)	NOT USED			
(C)	HOPPER 'WATERPLAY' 0011-0839	1	10 GPM	1 AP-18
(D)	BAMBOO DOWN JET 'SPLASHTACULAR'	1	40 GPM	3 AP-18
(E)	FUN-BRELLA 'WATERPLAY' 0010-0485	1	14 GPM	2 AP-17
(F)	WATER TROUGH GARDEN 'SPLASHTACULAR'	1	10 GPM	2 AP-18
(G)	SPIRAL TUNNEL 'WATERPLAY' 0010-0377	1	40 GPM	2 AP-20
(H)	'SPLASHTACULAR' ACTIVITY STRUCTURE	1	700 GPM	1 AP-15
(ALL EQUIPMENT LISTED SHALL BE CONSIDERED OR APPROVED EQUAL)		TOTAL FLOW	1,094 GPM	

#### LSG LANDSCAPE ARCHITECTURE

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DEPARTMENT OF  
RECREATION AND PARKS

#### OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

#### ACTIVITY POOL PLUMBING

#### PERMIT SET

## NFC

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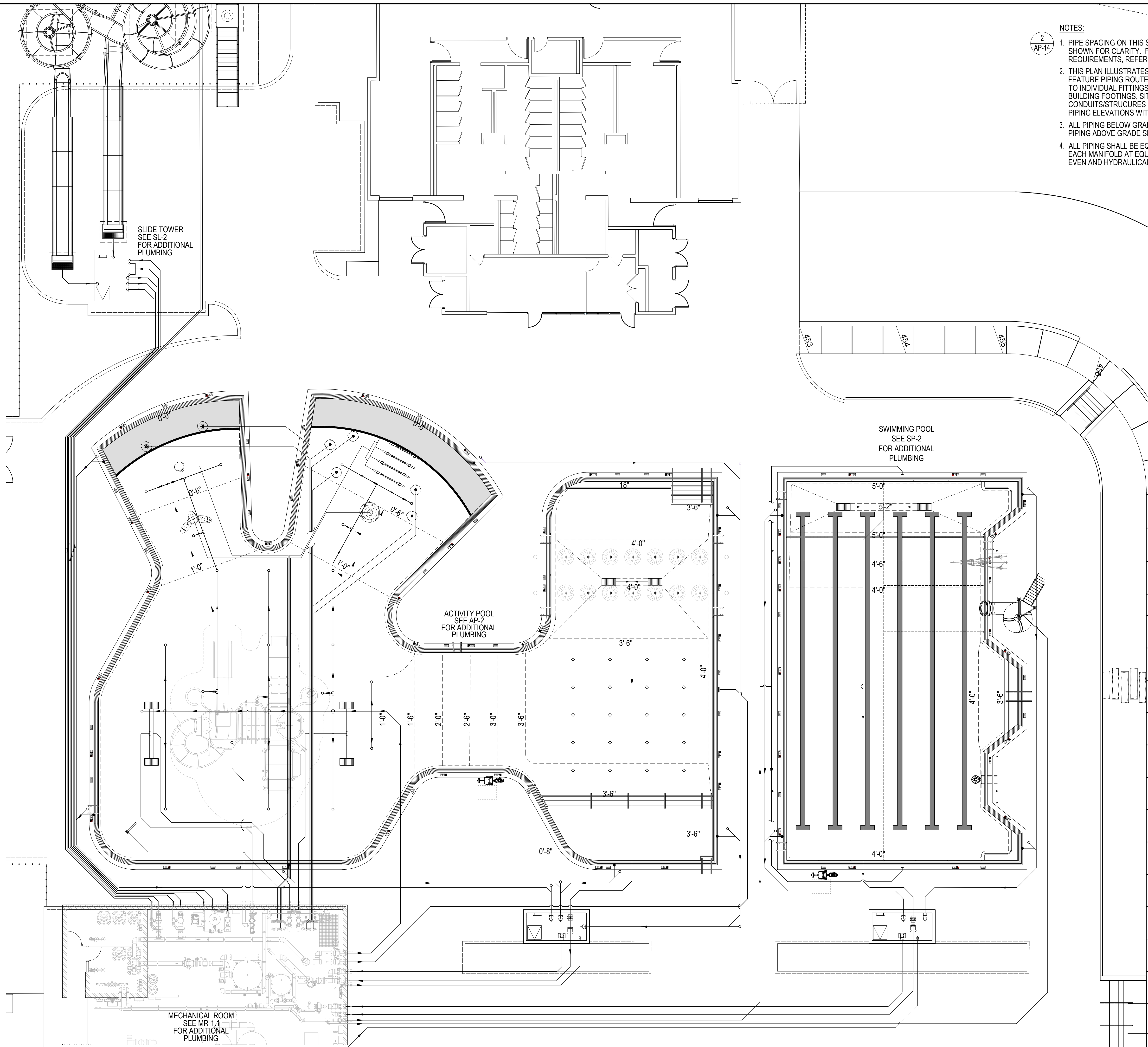
Sheet No.

AP-2

#### ACTIVITY POOL PLUMBING PLAN

1/8"=1'-0"



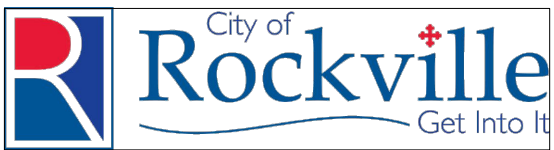


- 2  
AP-14
- NOTES:
1. PIPE SPACING ON THIS SHEET IS SCHEMATIC IN NATURE. SHOWN FOR CLARITY. FOR PIPE SPACING REQUIREMENTS, REFER TO DETAIL.
  2. THIS PLAN ILLUSTRATES THE PROPOSED WATER FEATURE PIPING ROUTES FROM THE MECHANICAL ROOM TO INDIVIDUAL FITTINGS. COORDINATE ALL PIPING WITH BUILDING FOOTINGS, SITE UTILITIES INCLUDING PIPING, CONDUITS/STRUCURES AND THE LIKE. COORDINATE ALL PIPING ELEVATIONS WITH ALL SITE UTILITIES.
  3. ALL PIPING BELOW GRADE SHALL BE SCH. 40 PVC. ALL PIPING ABOVE GRADE SHALL BE SCH. 80 PVC.
  4. ALL PIPING SHALL BE EQUALLY SPACED AND PIPED TO EACH MANIFOLD AT EQUAL INTERVALS TO ENSURE AN EVEN AND HYDRAULICALLY BALANCED SYSTEM.

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**OUTDOOR  
RECREATION POOL  
RENOVATIONS**

355 MARTINS LANE  
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**OVERALL  
PLUMBING PLAN**

PERMIT SET  
**NFC**

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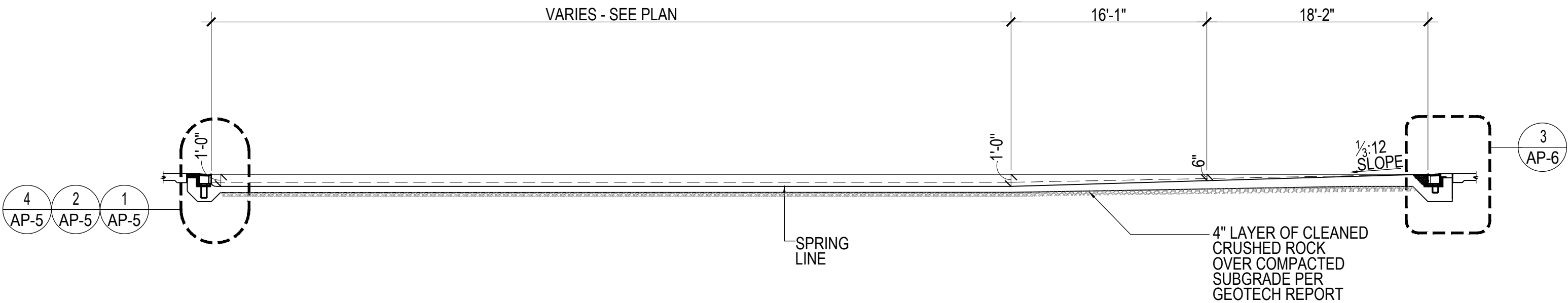
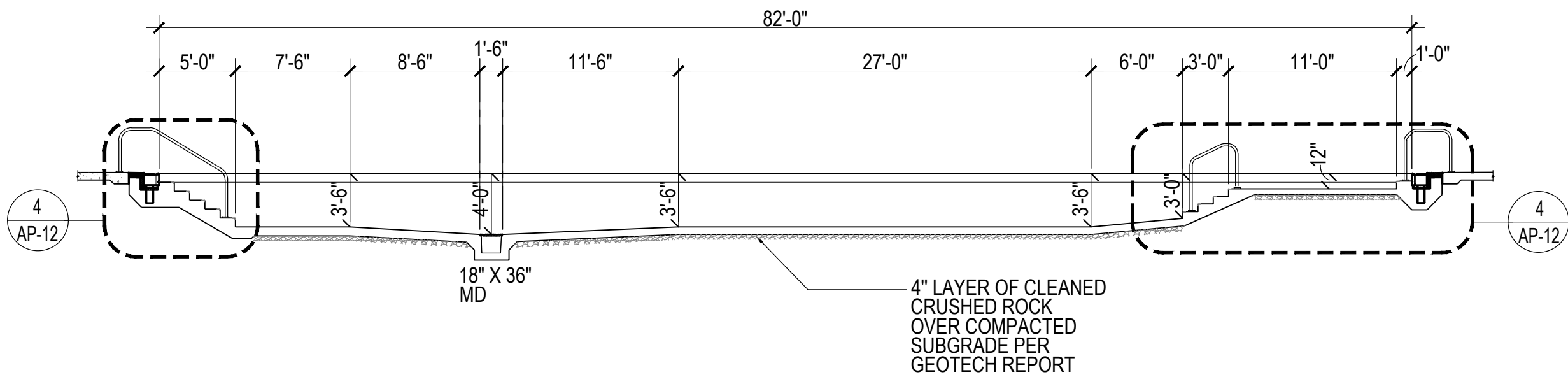
Sheet No.

AP-2.1



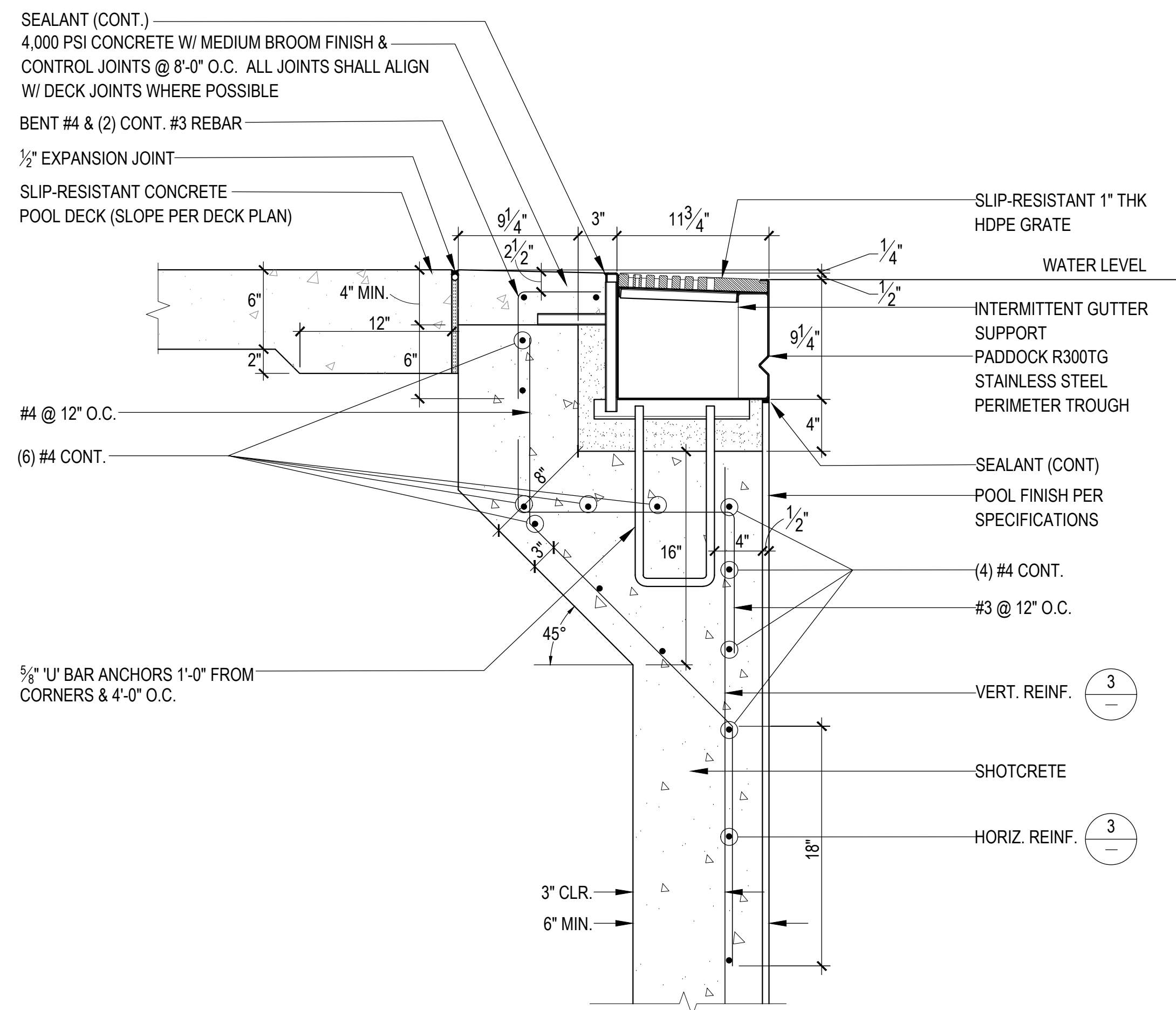
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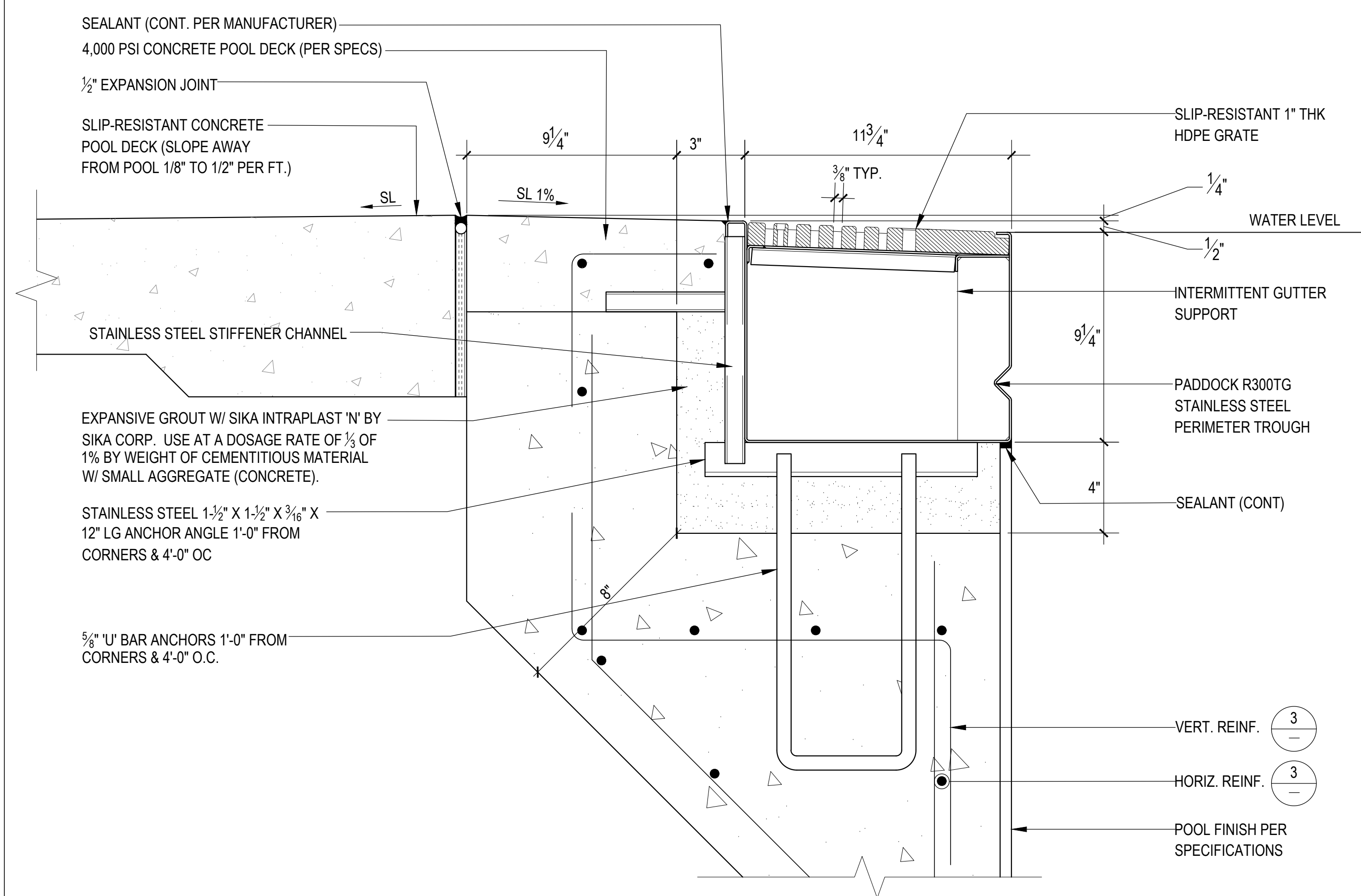
$$1/8'' = 1' - 0''$$

$$1/8'' = 1' - 0''$$

$$1/8'' = 1'-0''$$

AP-4





# 1 RIM FLOW GUTTER 1-1/2"=1'-0"



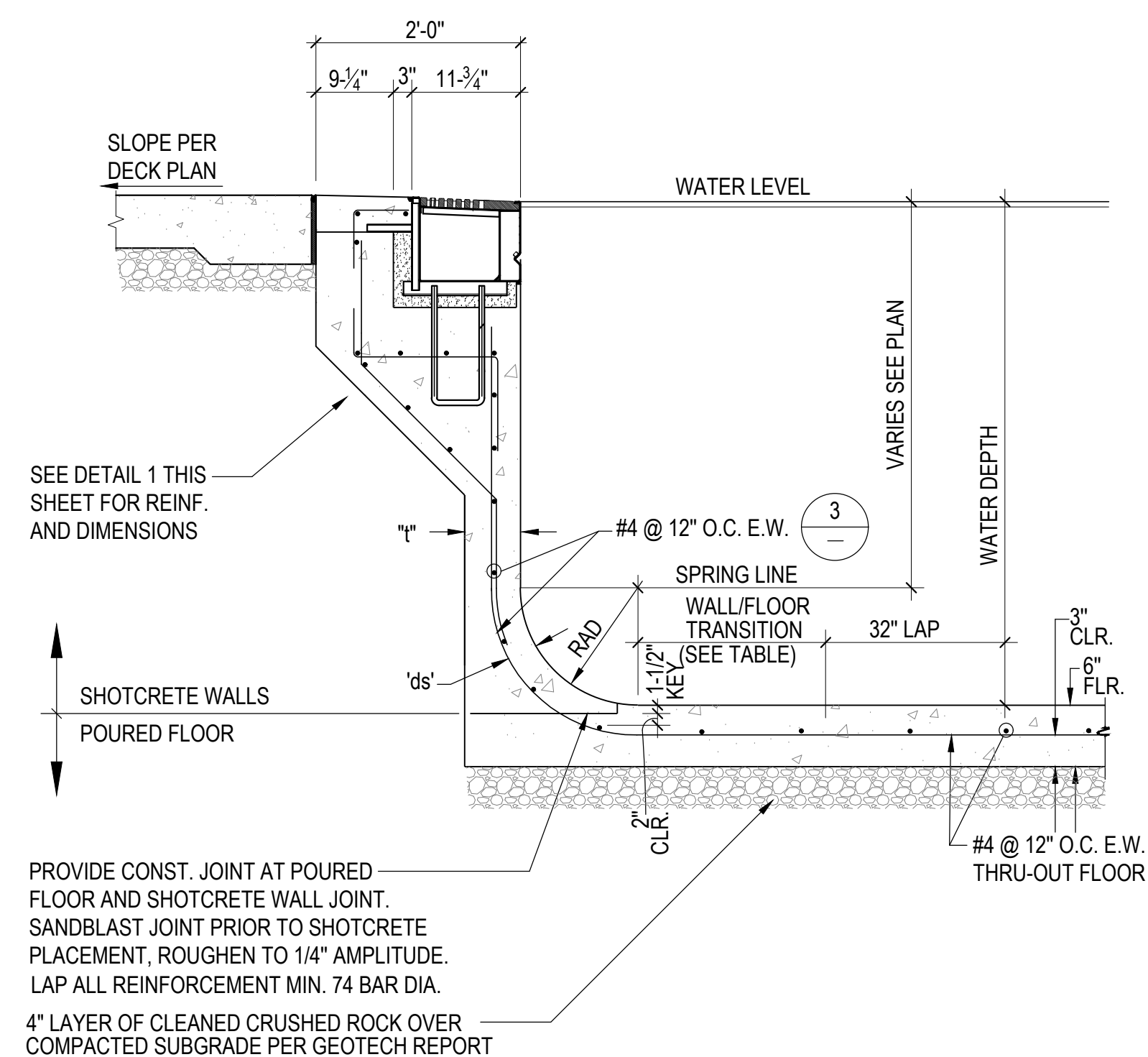
## 2 RIM FLOW GUTTER/GRATE 3"=1'-0"

REINFORCEMENT TABLE						
WATER DEPTH	"t"	"ds"	RADIUS	VERTICAL REINF.	HORIZONTAL REINF.	TRANSITION TO FLOOR REINF. BEYOND END RADIUS
0'-0" TO 3'-6"	6"	3"	6"	#4 @ 12" O.C.	#4 @ 12" O.C.	24"
3'-7" TO 5'-0"	7"	4"	6" TO 1'-6"	#4 @ 12" O.C.	#4 @ 12" O.C.	24"

- | CONCRETE NOTES: (FOR POOLS)  | SHOTCRETE NOTES: (FOR POOLS)   |
|--|--|
| ① THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS: POOL FLOOR, MATT SLAB AND CAISSONS = 4,000 PSI WITH MAX. WATER/CEMENT RATIO OF 0.50. | ① SHOTCRETE SHALL BE WET-MIX AND HAVE A COMPRESSIVE STRENGTH AT 28 DAYS: POOL FLOOR AND WALLS = 4,000 PSI. WITH MAX. WATER/CEMENT RATIO OF 0.40-0.50. SHOTCRETE MATERIALS, MIXTURE DESIGN, PROPORTIONING, PLACEMENT, CURING AND TESTING SHALL BE PER ACI 318.  |
| ② CONTINUOUS INSPECTION BY AN APPROVED INSPECTOR IS REQUIRED FOR ALL CONCRETE PLACEMENT.   | ② CONTINUOUS INSPECTION BY AN APPROVED INSPECTOR IS REQUIRED FOR ALL SHOTCRETE PLACEMENT PER ACI 318.  |
| ③ ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150, TYPE I OR II  | ③ ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150, TYPE I OR II  |
| ④ FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF AGGREGATE TO BE 1".  | ④ FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF AGGREGATE TO BE 3/8".  |
| ⑤ CONCRETE MIX DESIGNS SHALL BE BASED UPON ACI 318.  | ⑤ SHOTCRETE SHALL BE TESTED AND INSPECTED PER IBC 1705.3 AND ACI 318.  |
| ⑥ CONCRETE SHALL BE TESTED AND INSPECTED PER IBC 1705.3 AND ACI 318.   | ⑥ REBAR SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING OF SHOTCRETE.   |
| ⑦ REMOVAL OF FORMS SHALL COMPLY WITH ACI 318.  | ⑦ ALL REINFORCEMENT WITHIN SHOTCRETE SHALL MAINTAIN THE LESSER OF 6 BAR DIA. AND 2-1/2" CLEAR NON-CONTACT SPLICES PER ACI 318.   |
| ⑧ ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED TO BE GRADE 40. MIN. LAPS SHALL BE 64 BAR DIA.                       | ⑧ THE FILM OF LAITANCE WHICH FORMS ON THE SURFACE OF THE SHOTCRETE SHALL BE REMOVED WITHIN APPROXIMATELY TWO HOURS. AFTER APPLICATION BY BRUSHING WITH A STIFF BROOM. IF THIS IS NOT REMOVED WITHIN TWO HOURS, IT SHALL BE REMOVED BY THOROUGH WIRE BRUSHING OR SAND BLASTING. CONSTRUCTION JOINTS OVER EIGHT HOURS OLD SHALL BE THOROUGHLY CLEANED WITH AIR AND WATER PRIOR TO RECEIVING SHOTCRETE. |
|  | ⑨ ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED TO BE GRADE 40. MIN. LAPS SHALL BE 64 BAR DIA. REINFORCING SHALL CONFORM TO ACI 318.   |

NOTE: ALL INSPECTORS SHALL BE PROVIDED AND SCHEDULED BY CONTRACTOR. ALL REPORTS SHALL BE PROVIDED TO OWNER

### 3 REINFORCEMENT TABLE



4 POOL WALL 0'-0" TO 5'-0" 3/4" = 1'-0"

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ARCHITECTURE

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SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

## OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

## DETAILS

# PERMIT SET NFC

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2	80% CONSTRUCTION DOCUMENT 08/18/2023
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4	PERMIT SET 12/08/2023

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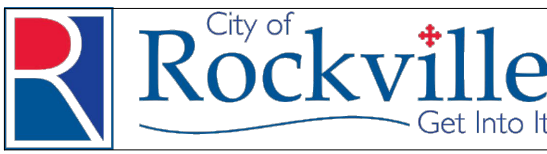




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DEPARTMENT OF  
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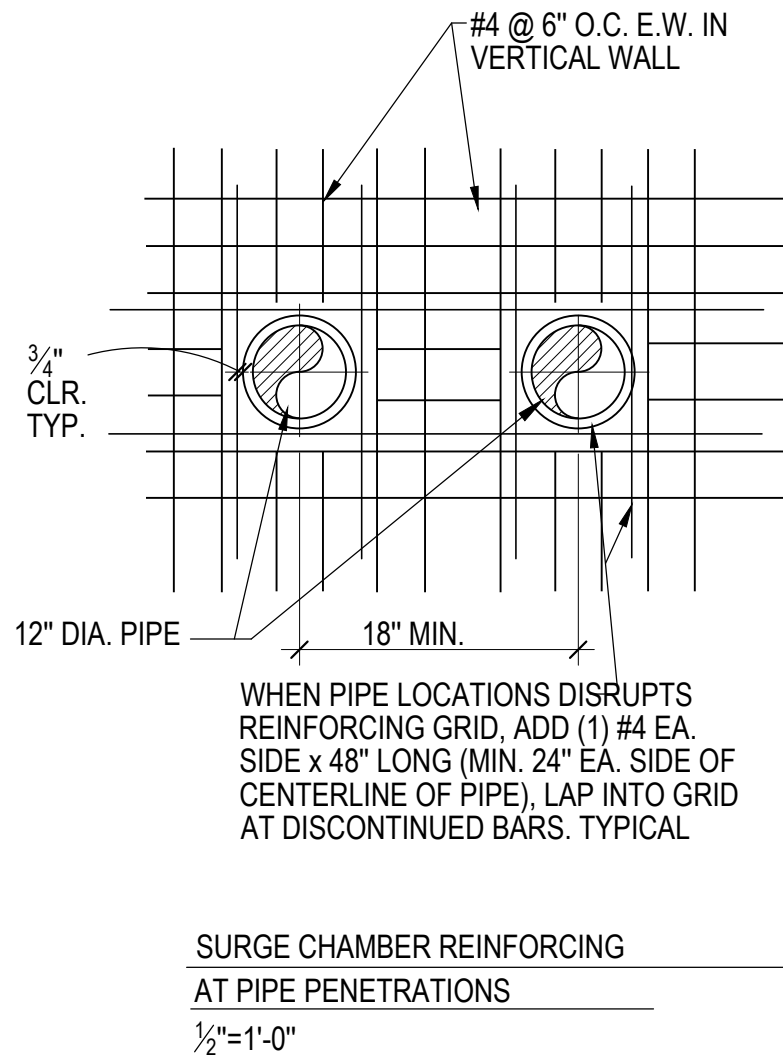
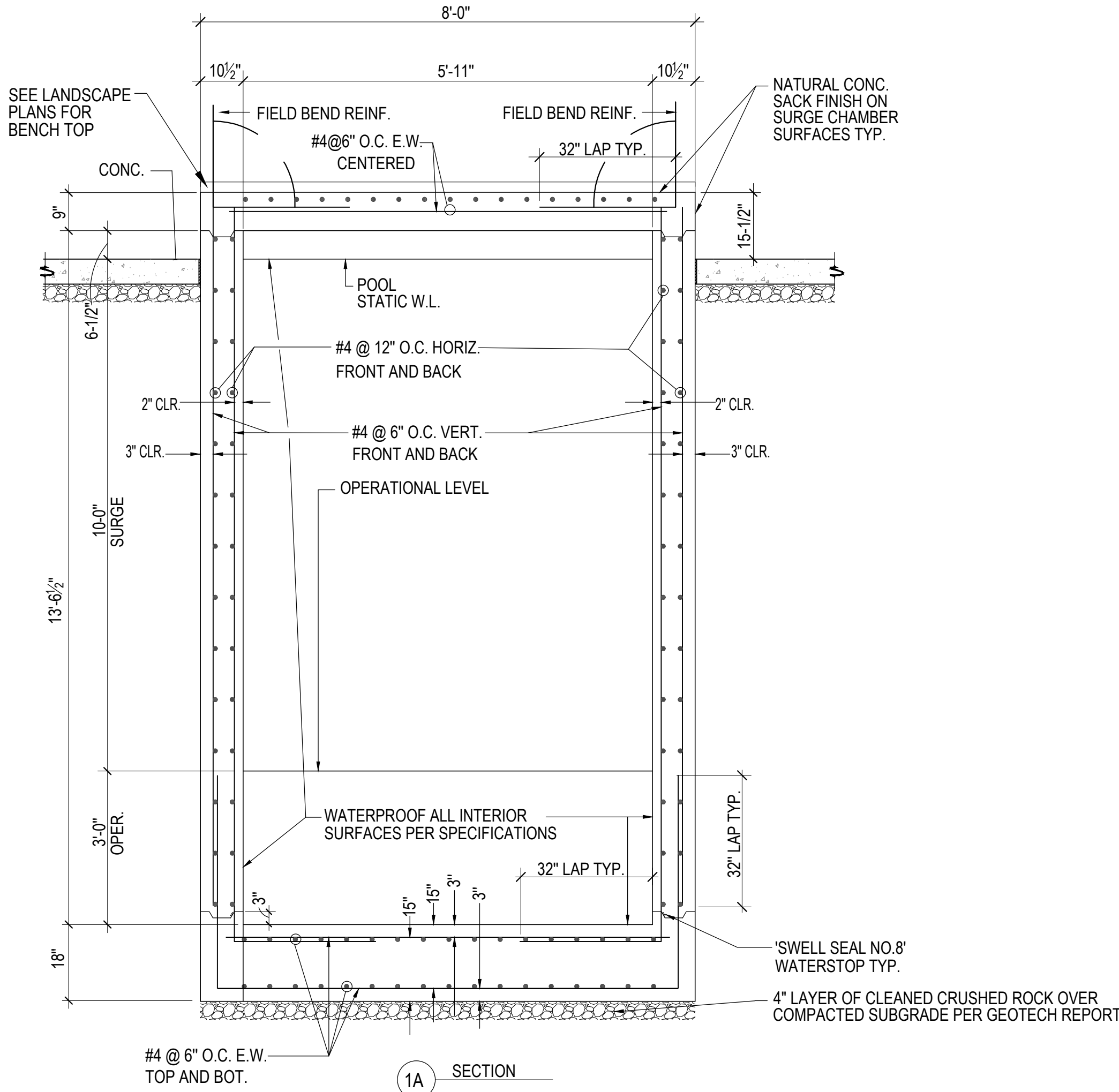
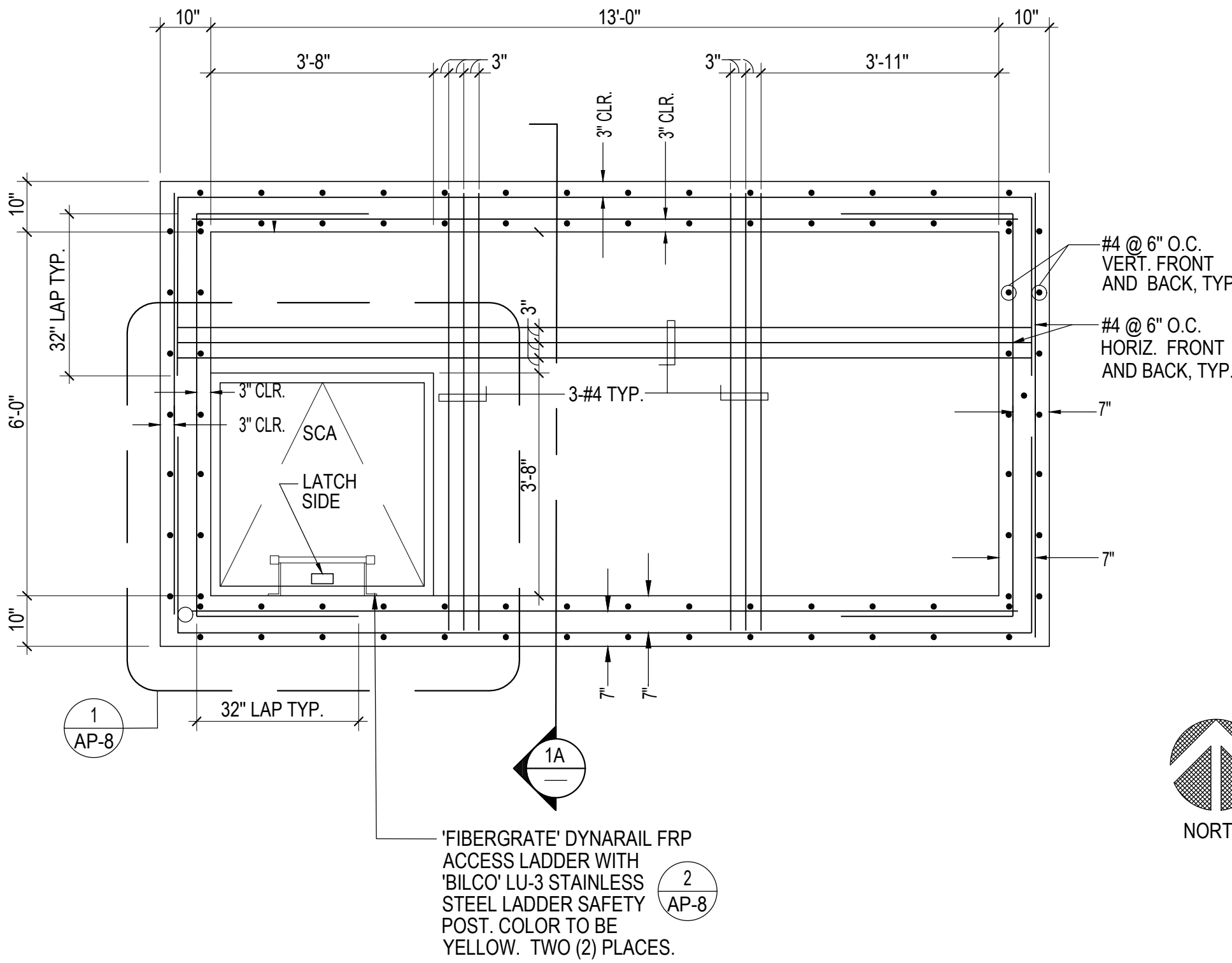
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AP-7

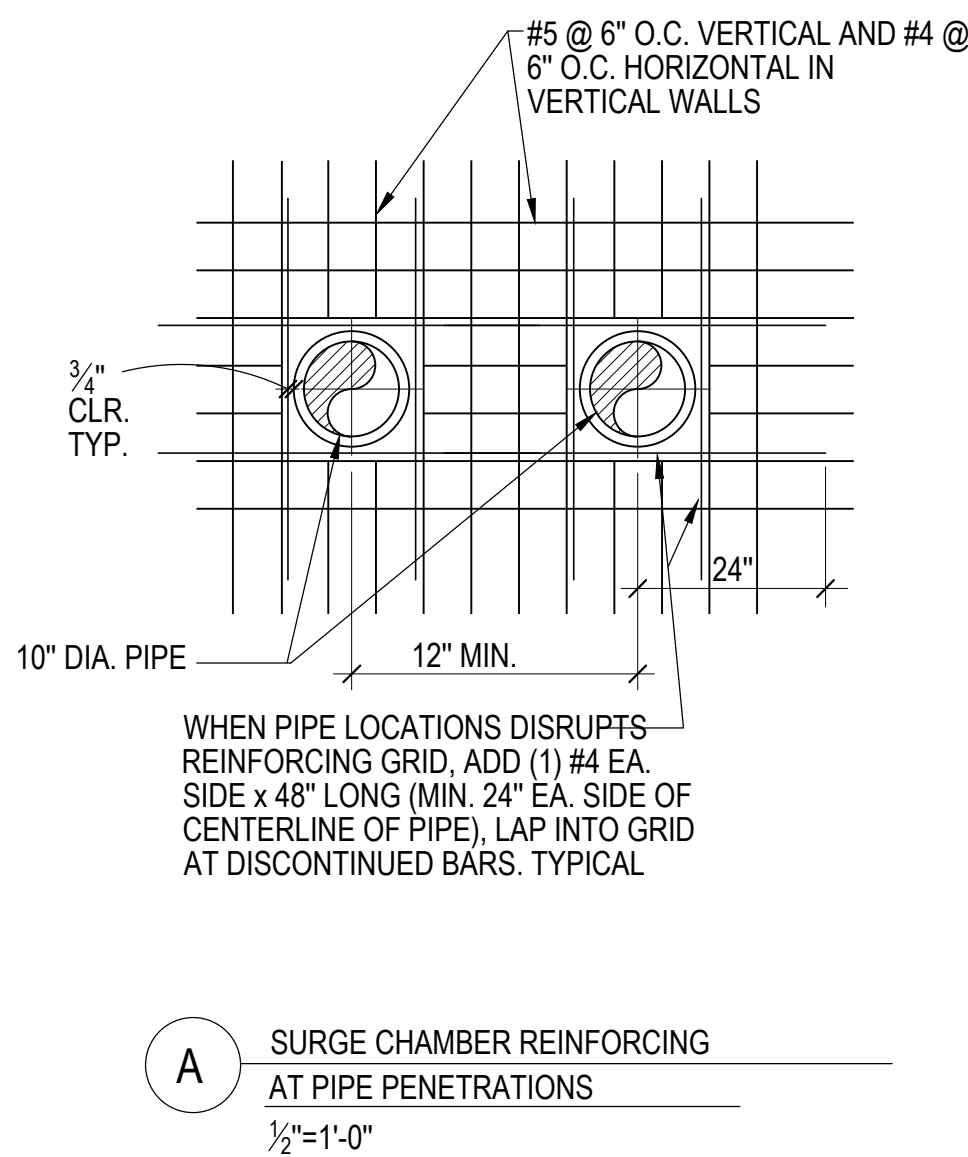
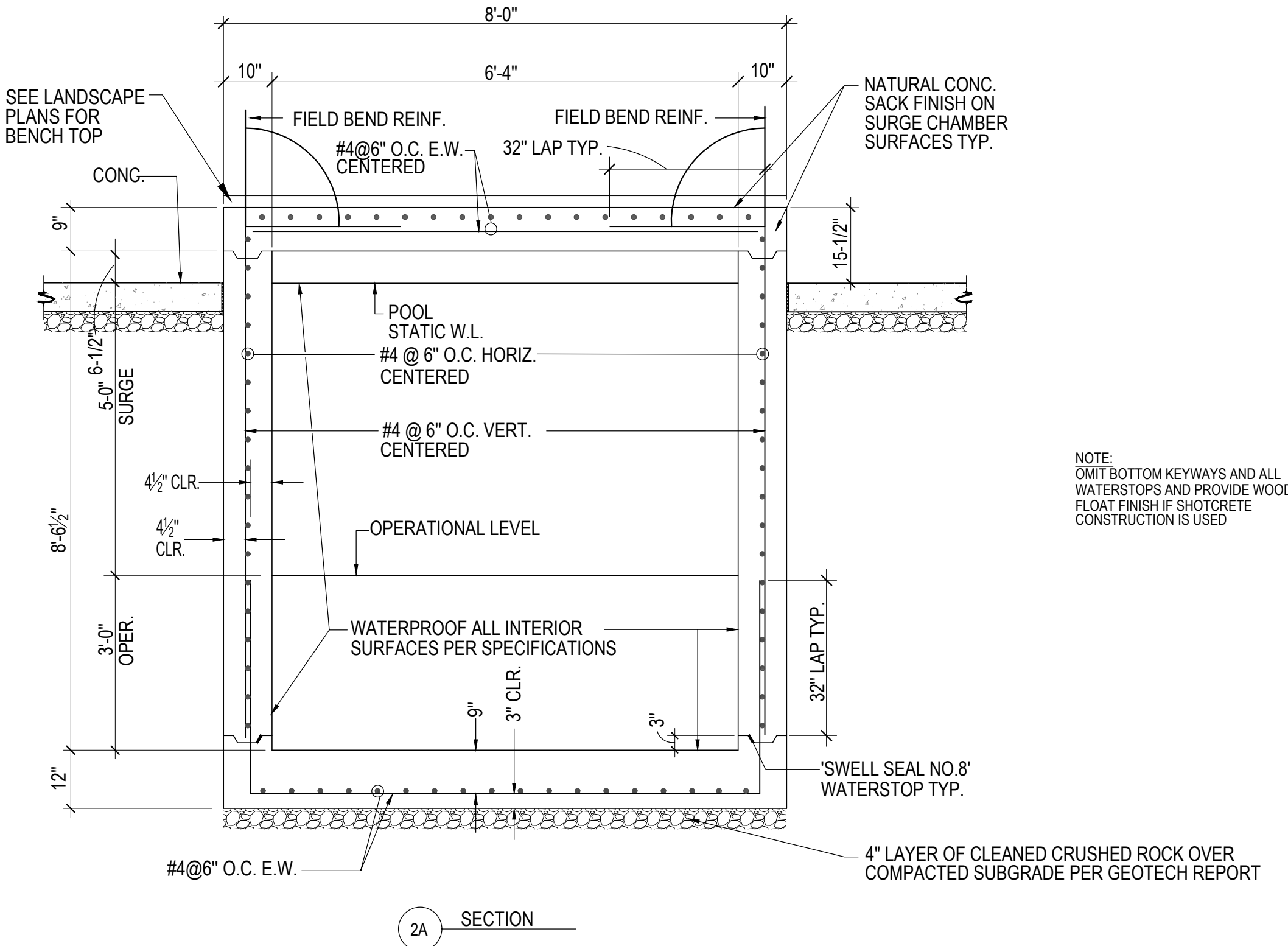
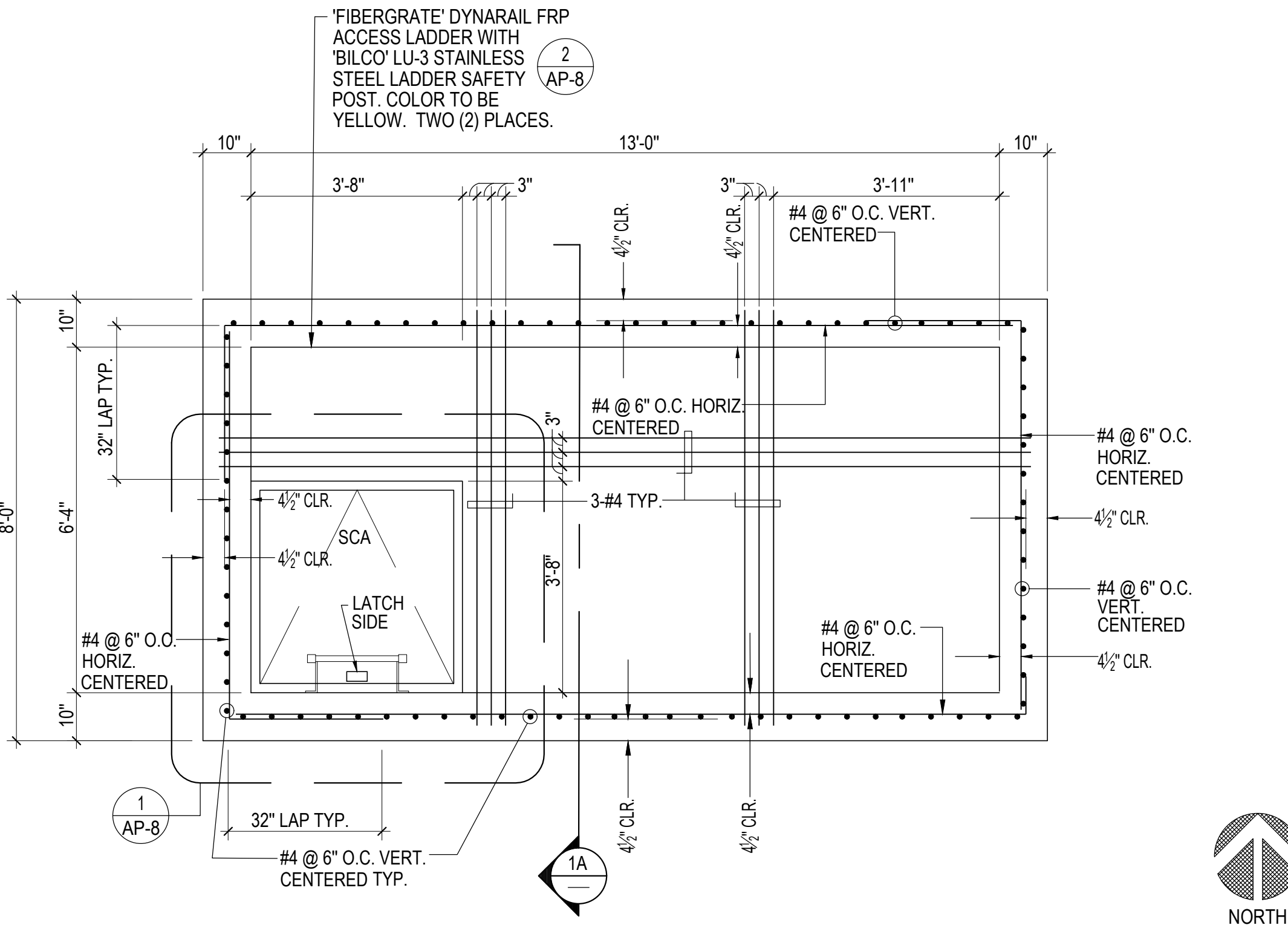
BID SET 02/23/2024

NOTE:  
OMIT BOTTOM KEYWAYS  
AND ALL WATERSTOPS  
AND PROVIDE WOOD FLOAT  
FINISH IF SHOTCRETE  
CONSTRUCTION IS USED



ACTIVITY POOL SURGE CHAMBER

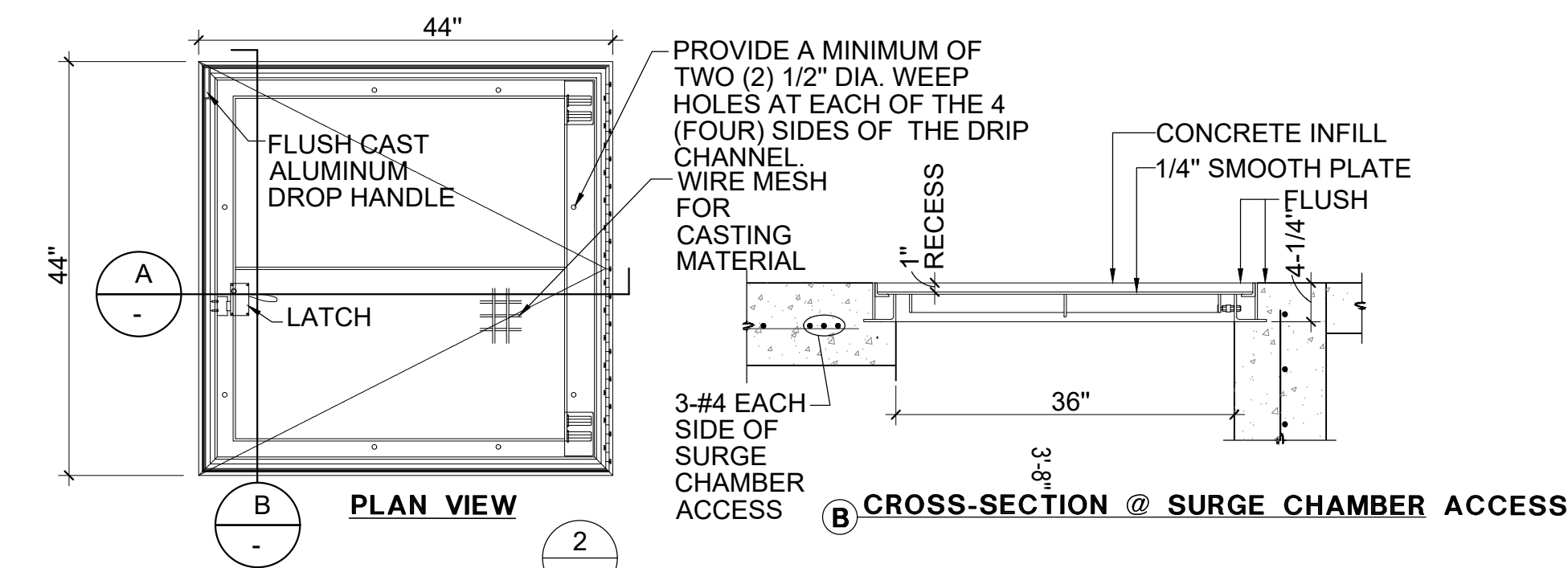
1/2" = 1'-0"



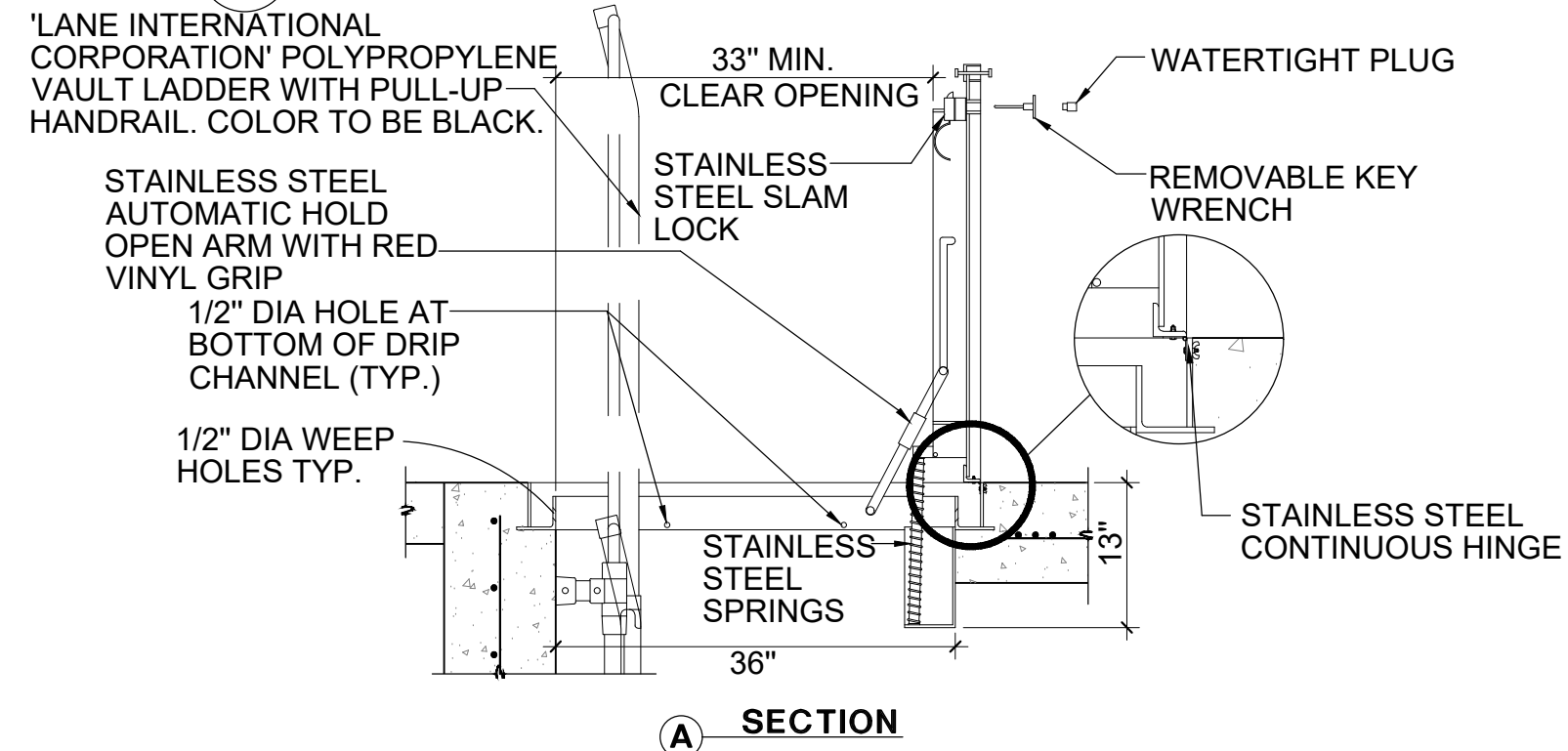
SWIMMING POOL SURGE CHAMBER

1/2" = 1'-0"

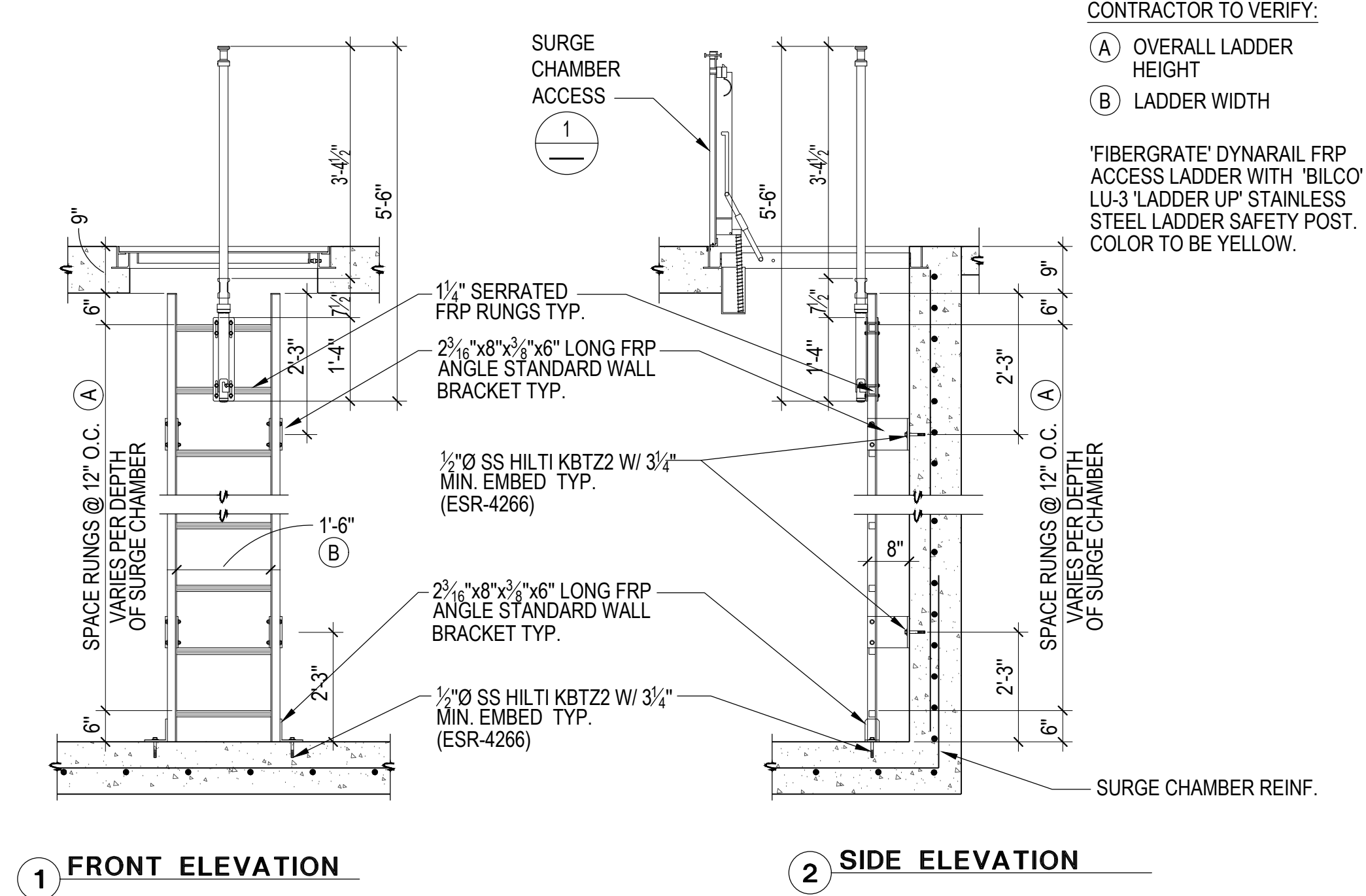




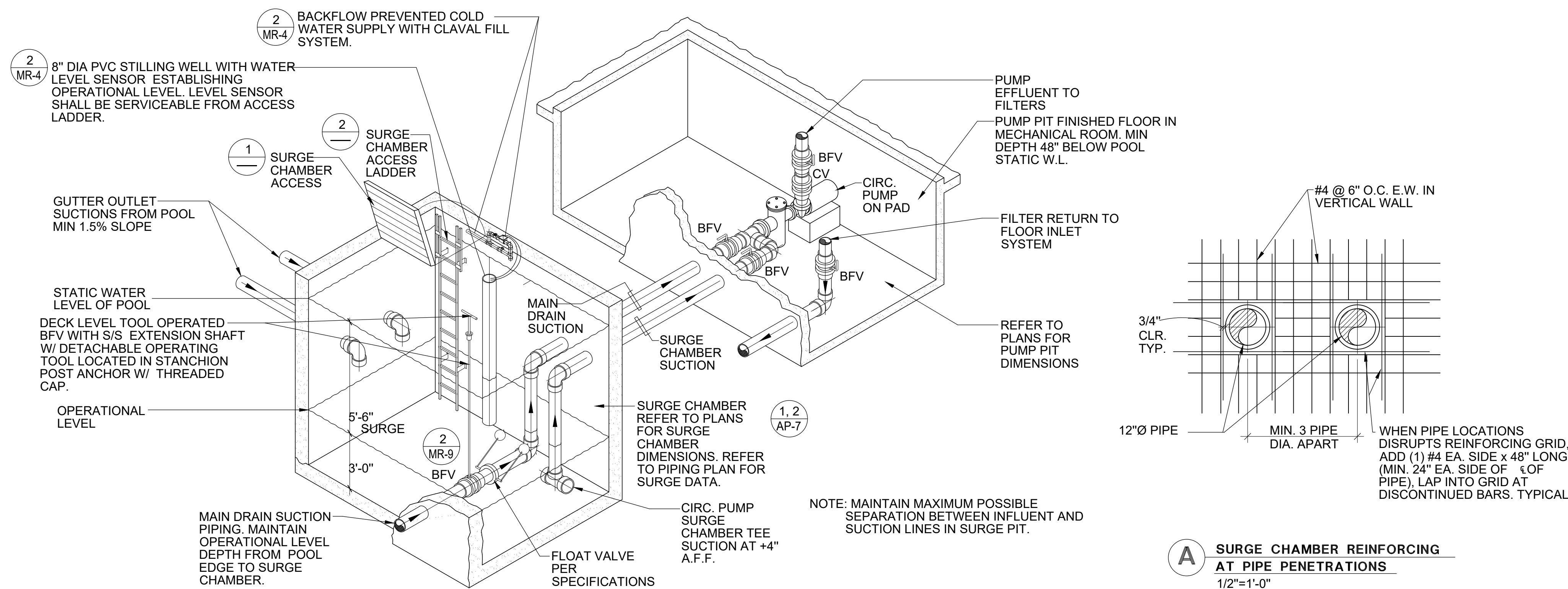
- NOTES:
1. MATERIAL: ALUMINUM WITH STAINLESS STEEL BOLTS, NUTS, SPRINGS, SLAM LOCK, HINGES & HOLD OPEN ARM.
  2. LOADING: 300 LBS. PER SQ. FOOT.
  3. BITUMINOUS COATING IS APPLIED TO AREA OF FRAME IN CONTACT WITH CONCRETE.
  4. HINGES TO BE LOCATED OPPOSITE LADDER RUNGS.
- MANHOLE SHALL BE U.S.F. FABRICATION INC. #R-TPS-300-36x36 ALUMINUM. 1(800)258-6873.



1 SURGE CHAMBER ACCESS COVER 3/4"=1'-0"



2 SURGE CHAMBER ACCESS LADDER 1/2"=1'-0"

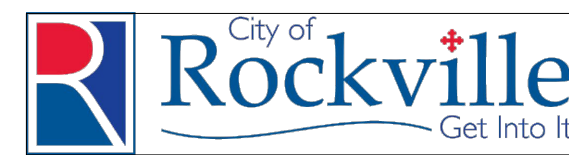


3 SURGE CHAMBER PIPING SCHEMATIC NO SCALE

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DEPARTMENT OF  
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OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

DETAILS

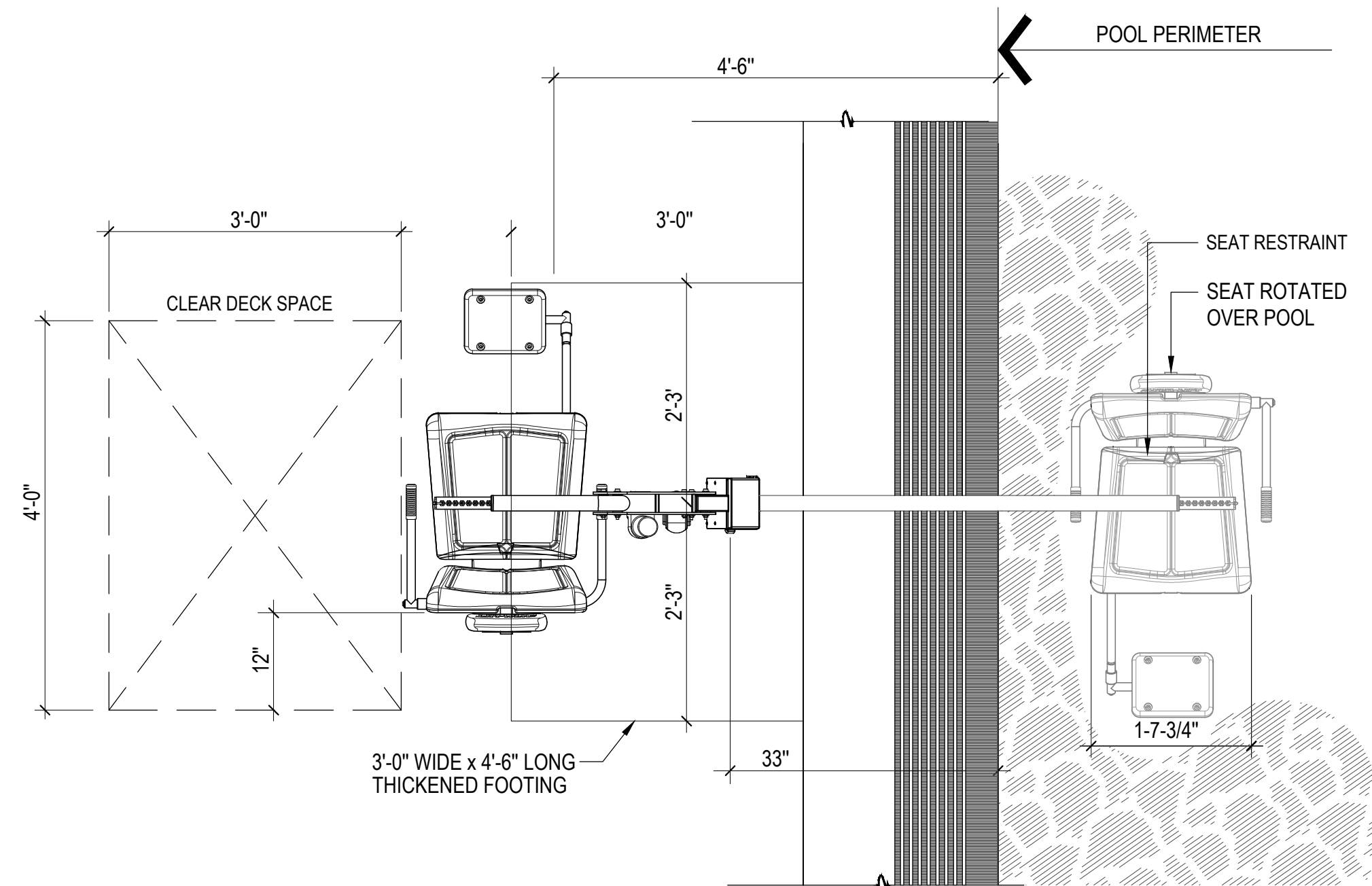
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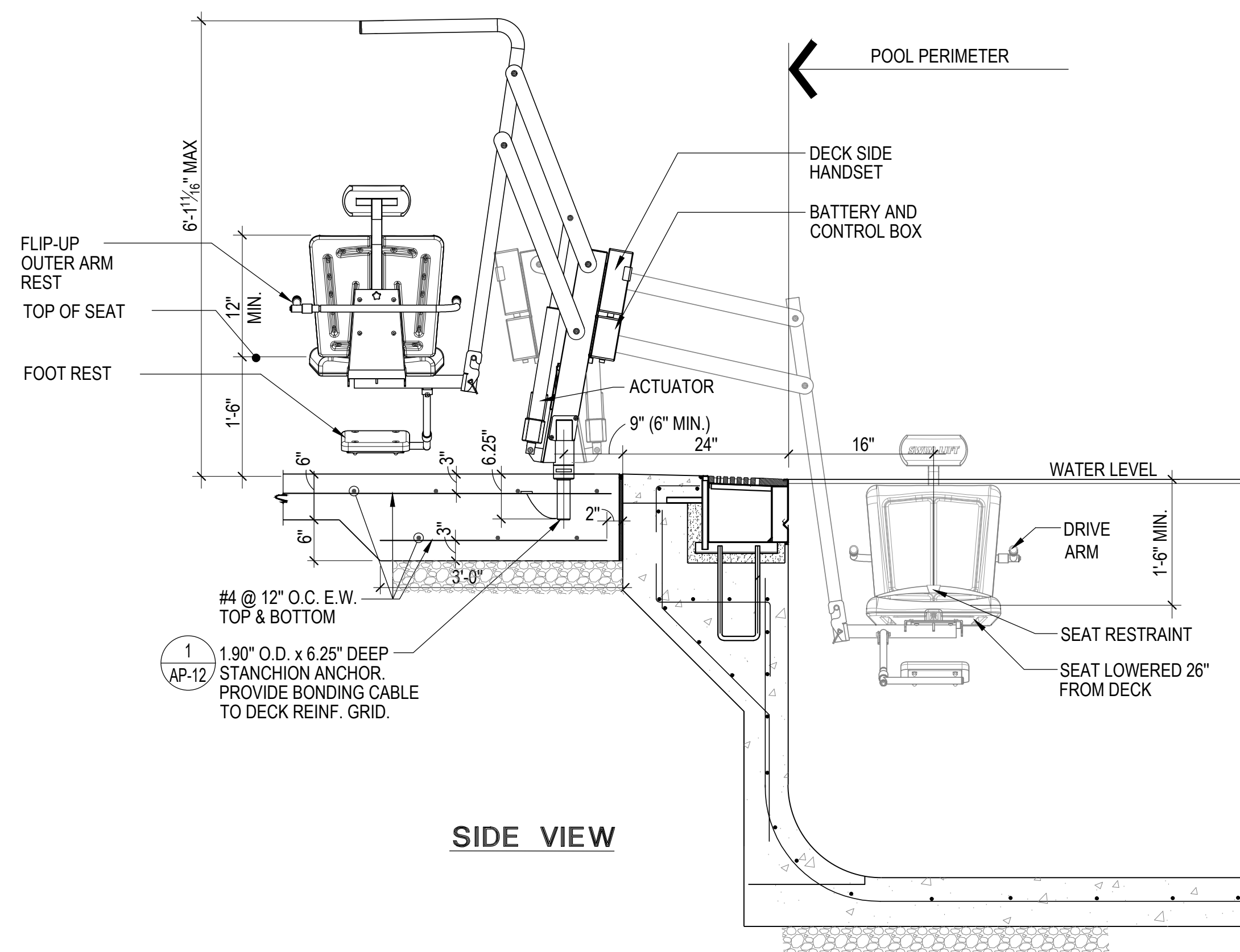
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Sheet No. AP-8





TOP VIEW



**SIDE VIEW**

NOTES:

1. 'PENTAIR' AQUATRAM 360 SWIMMING POOL ACCESS LIFT (350 lb. MIN. AND 400 lb. MAX. LIFTING CAPACITY)
2. GUSSET COVER PLATE TO BE ATTACHED REQUIRING A TOOL FOR REMOVAL.
3. CONTRACTOR SHALL PROVIDE COVER FOR LIFT 'PENTAIR' #11257, EXTRA BATTERY PACK 'PENTAIR' #11212, AND TRANSPORTER CART 'PENTAIR' #11253.
4. UTILIZE OUTLET IN LIFE GUARD OFFICE FOR DISABLED LIFT BATTERY CHARGE STATION.
5. POOL LIFT SHALL BE LOCATED WHERE THE WATER LEVEL IS AT LEAST 36" AND DOES NOT EXCEED 48" DEEP, UNLESS ENTIRE POOL IS GREATER THAN 48" DEEP. (IBC SECTION 11B-1009.2.1)
6. ON THE RAISED POSITION, THE CENTERLINE OF THE SEAT SHALL BE LOCATED OVER THE DECK AND 16" MINIMUM FROM THE EDGE OF THE POOL. THE DECK SURFACE BETWEEN THE CENTERLINE OF THE SEAT AND THE POOL EDGE SHALL HAVE A 2% MAX. SLOPE. (IBC SECTION 11B-1009.2.2)
7. CLEAR DECK SPACE SHALL BE PROVIDED ON SIDE OF SEAT OPPOSITE THE WATER PARALLEL TO THE WATER 36" wide x 48" MINIMUM FROM A LINE LOCATED 12" BEHIND THE REAR EDGE OF THE SEAT. THE CLEAR SPACE SHALL HAVE A 2% MAX. SLOPE. (IBC SECTION 11B-1009.2.3)
8. THE HEIGHT OF THE LIFT SEAT SHALL BE DESIGNED TO ALLOW A STOP AT 17" MIN. TO 19" MAX. MEASURED FROM THE DECK TO THE TOP OF THE SEAT SURFACE WHEN IN THE RAISED POSITION. (IBC SECTION 11B-1009.2.4)
9. THE SEAT SHALL BE RIGID AND 17" MIN. TO 19" MAX. WIDE. THE LIFT SEAT SHALL HAVE A BACK SUPPORT 12" MIN. TALL. (IBC SECTION 11B-1009.2.4)
10. FOOTRESTS SHALL BE PROVIDED, EXCEPT FOR SPA LIFTS, AND SHALL MOVE WITH THE SEAT. LIFT SHALL HAVE TWO ARMRESTS. THE ARMREST POSITIONED OPPOSITE THE WATER SHALL BE REMOVABLE OR SHALL FOLD CLEAR OF THE SEAT WHEN THE SEAT IS IN THE RAISED POSITION. (IBC SECTION 11B-1009.2.6)
11. THE LIFT SHALL BE CAPABLE OF UNASSISTED OPERATION FROM BOTH THE DECK AND WATER LEVELS. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL BE UNOBSTRUCTED WHEN THE LIFT IS IN USE (IBC SECTION 11B-309.4). LIFT MUST BE STABLE AND NOT PERMIT UNINTENDED MOVEMENT WHEN A PERSON IS GETTING INTO OR OUT OF THE SEAT. (IBC SECTION 11B-1009.2.7)
12. THE LIFT SHALL BE DESIGNED SO THAT THE SEAT WILL SUBMERGE TO A WATER DEPTH OF 18" MIN. BELOW THE STATIONARY WATER LEVEL. (IBC SECTION 11B-1009.2.8)
13. LIFT SEAT MUST HAVE AN OCCUPANT RESTRAINT FOR USE BY THE OCCUPANT OF THE SEAT AND THE RESTRAINT MUST MEET THE STANDARDS FOR OPERABLE CONTROLS IN COMPLIANCE WITH IBC SECTION 11B-1009.2.4 AND SECTION 11B-309.
14. MUST COMPLY WITH US ACCESS BOARD REQUIREMENTS FOR POOL LIFT.
15. NO COMPLIANCE.

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DEPARTMENT OF  
RECREATION AND PARKS

## OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

## DETAILS

# PERMIT SET

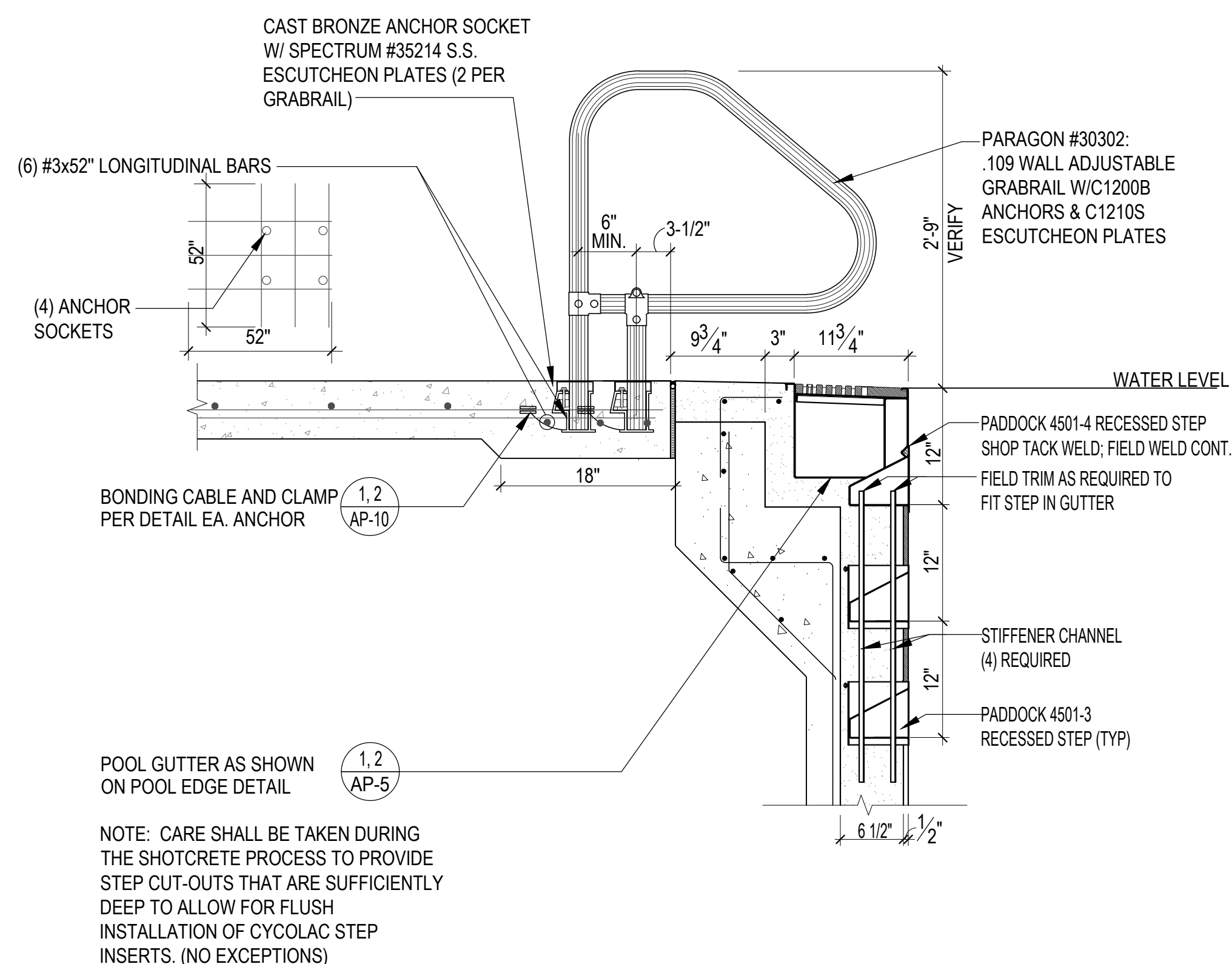
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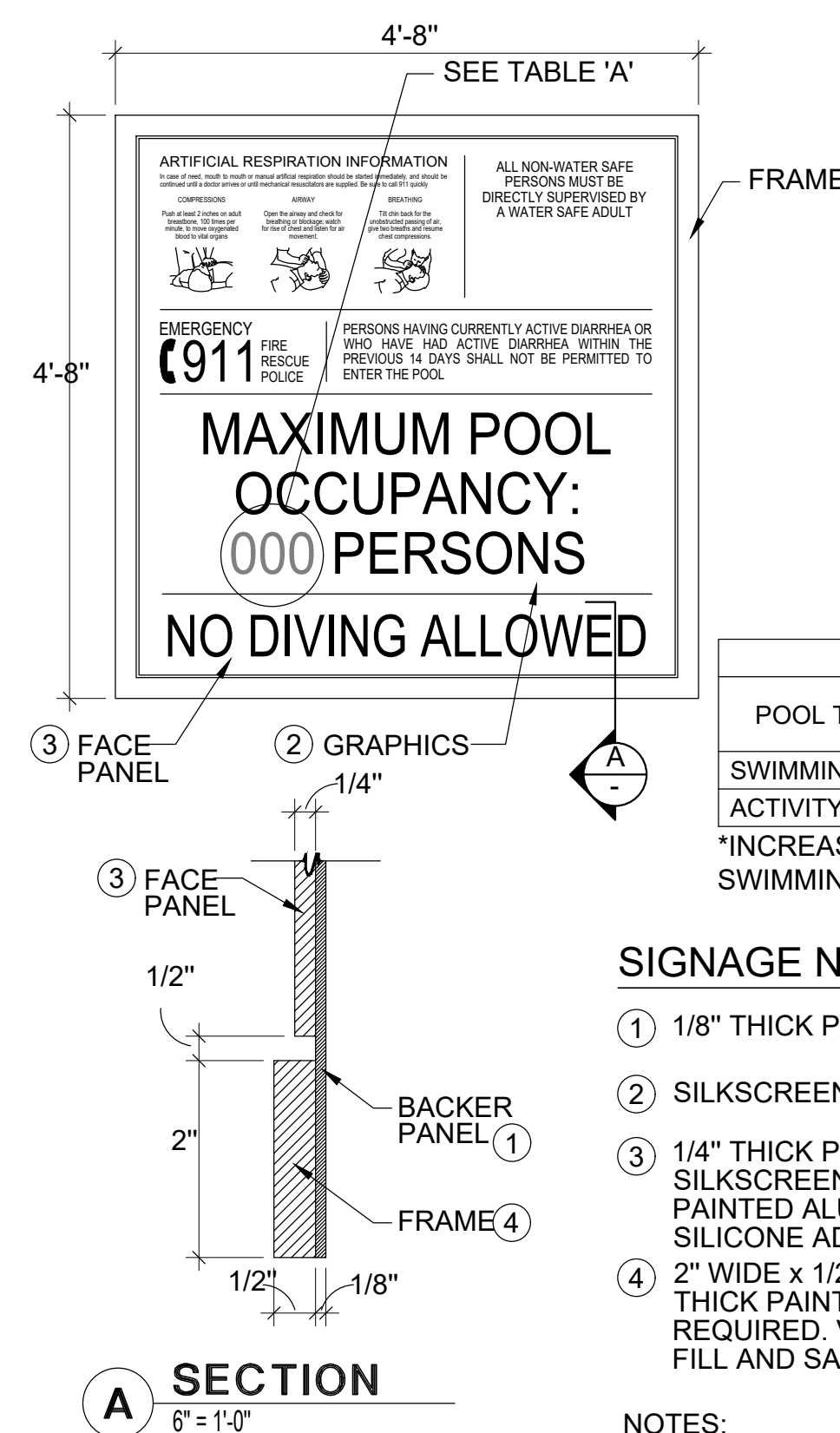
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Sheet No. AP-9

## ACCESSIBLE LIFT

$$3/4'' = 1'-0''$$


## GRAB RAIL DETAIL

$$1'' = 1' - 0''$$


REQUIRED POOL SIGNAGE:

1. ARTIFICIAL RESPIRATION DIAGRAMS (POSTED WITHIN ENCLOSURE AND CLEARLY VISIBLE).
2. EMERGENCY PHONE NUMBERS (POSTED CLEARLY VISIBLE TO PATRONS).
3. OCCUPANCY LOAD SIGN FOR: SWIMMING POOL (LETTERS 4" HIGH PLACED IN PLAIN VIEW NEAR ENTRANCE)
4. "NO DIVING ALLOWED" FOR POOLS OF MAX. DEPTH LESS THAN 6'-0" (LETTERS 4" HIGH PLACED IN PLAIN VIEW NEAR ENTRANCE)

TABLE 'A'					
POOL TYPE	POOL AREA	SHALLOW AREA	DEEP AREA	OCCUPANCY	CRITERIA
SWIMMING POOL	3,752	3,174 / 8 = 396	578 / 10 = 58	454*	TABLE 403.
ACTIVITY POOL	9,762	9,762 / 8 = 1,220	-	1,220	TABLE 608.

SIGNAGE NOTES AND SPECIFICATIONS:

- ① 1/8" THICK PAINTED ALUMINUM BACKER PANEL.
- ② SILKSCREENED COPY/GRAPHICS WITH SATIN CLEAR COAT.
- ③ 1/4" THICK PAINTED ALUMINUM FACE PANEL WITH SILKSCREENED COPY/GRAPHICS. ATTACH TO 1/8" THICK PAINTED ALUMINUM BACKER PANEL USING "VHB" TAPE AND SILICONE ADHESIVE.
- ④ 2" WIDE X 1/2" THICK PAINTED ALUMINUM SIGN FRAME ADHERED TO 1/8" THICK PAINTED ALUMINUM BACKER USING "LORDS" ADHESIVE AS REQUIRED. VERTICAL SECTIONS OF FRAME TO BE RECTANGULAR TUBE FILL AND SAND SEAM ALONG EDGE AND FACE PRIOR TO PAINTING.

NOTES:

1. COORDINATE SIGNAGE PLACEMENT AND COLOR SCHEME WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF PROPOSED SIGNAGE FOR REVIEW.

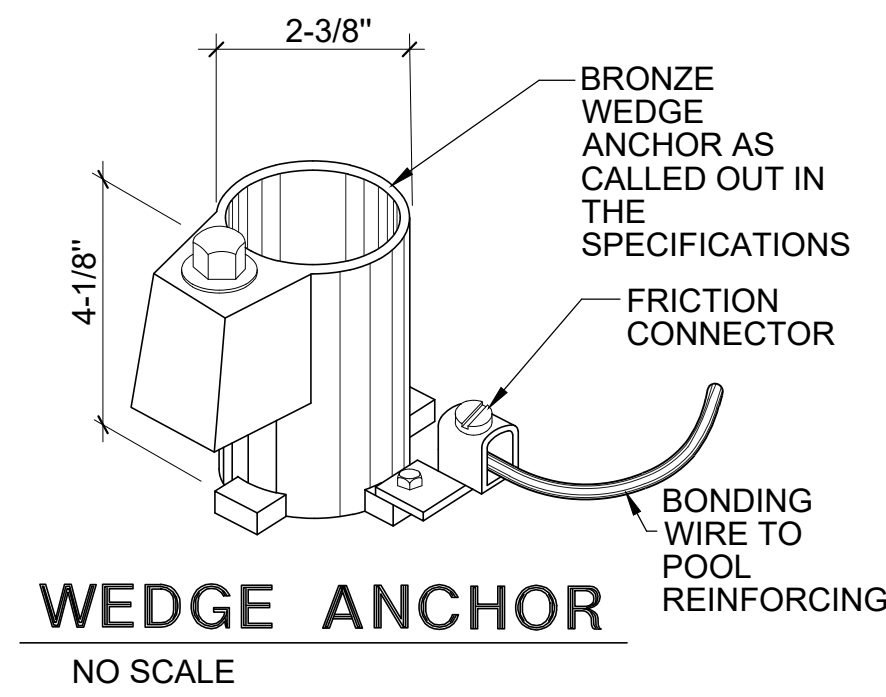
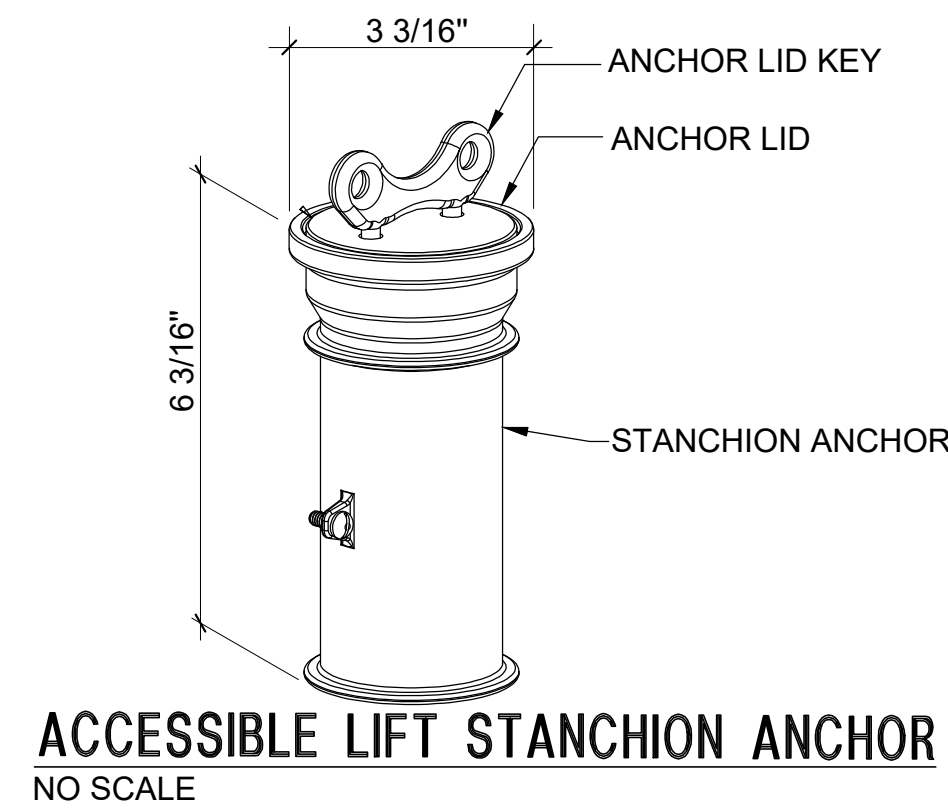
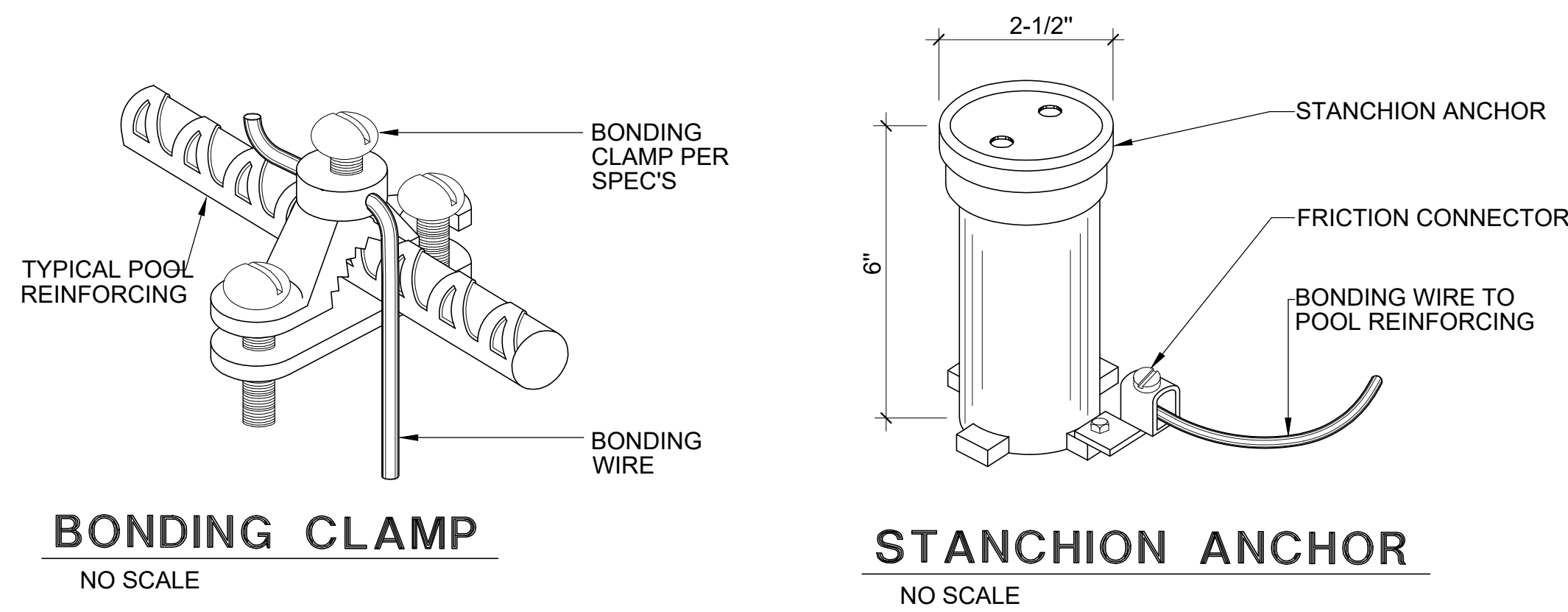
REQUIRED SIGNAGE:

1. ALL SIGNS SHALL HAVE CLEARLY LEGIBLE LETTERS OR NUMBERS NOT LESS THAN 4 INCHES HIGH, UNLESS OTHERWISE NOTED; AFFIXED TO A WALL, POLE, GATE, OR SIMILAR PERMANENT STRUCTURE IN A LOCATION VISIBLE TO ALL POOL USERS.
    - A. POOL USER CAPACITY SIGN: A SIGN SHALL INDICATE THE MAXIMUM NUMBER OF POOL USERS PERMITTED FOR EACH POOL.
    - B. NO DIVING SIGN: SIGNS SHALL BE POSTED IN CONSPICUOUS PLACES AND SHALL STATE 'NO DIVING' AT POOLS WITH A MAXIMUM WATER DEPTH OF 6 FEET OR LESS.
    - C. ARTIFICIAL RESPIRATION AND CPR SIGN: AN ILLUSTRATED DIAGRAM WITH TEXT AT LEAST 1/4 INCH HIGH OF ARTIFICIAL RESPIRATION AND CPR PROCEDURES SHALL BE POSTED.
    - D. EMERGENCY SIGN: THE EMERGENCY TELEPHONE NUMBER 911, THE NUMBER OF THE NEAREST EMERGENCY SERVICES AND THE NAME AND STREET ADDRESS OF THE POOL FACILITY SHALL BE POSTED.
    - E. KEEP CLOSED: A SIGN SHALL BE POSTED ON THE EXTERIOR SIDE OF GATES AND DOORS LEADING INTO THE POOL ENCLOSURE AREA STATING, "KEEP CLOSED."
    - F. DIARRHEA: A SIGN IN LETTERS AT LEAST 1 INCH HIGH AND IN A LANGUAGE OR DIAGRAM THAT IS CLEARLY STATED SHALL BE POSTED AT THE ENTRANCE AREA OF A PUBLIC POOL WHICH STATES THAT PERSONS HAVING CURRENTLY ACTIVE DIARRHEA OR WHO HAVE HAD ACTIVE DIARRHEA WITHIN THE PREVIOUS 14 DAYS SHALL NOT BE ALLOWED TO ENTER THE POOL WATER.
  2. DIRECTION OF FLOW SIGNAGE AND LABELS.
    - A. THE DIRECTION OF FLOW FOR THE RECIRCULATION EQUIPMENT SHALL BE LABELED CLEARLY WITH DIRECTIONAL SYMBOLS SUCH AS ARROWS ON ALL PIPING IN THE EQUIPMENT AREA.
    - B. WHERE THE RECIRCULATION EQUIPMENT FOR MORE THAN ONE POOL IS LOCATED ON SITE, THE EQUIPMENT SHALL BE MARKED AS TO WHICH POOL THE SYSTEM SERVES.
    - C. VALVES AND PLUMBING LINES SHALL BE LABELED CLEARLY WITH THE SOURCE OR DESTINATION DESCRIPTIONS.
  3. OWNER TO APPROVE ALL SIGNAGE TEXT AND DESIGN PRIOR TO INSTALLATION.

## POOL SIGNAGE DETAIL

$$3/4" = 1' - 0"$$

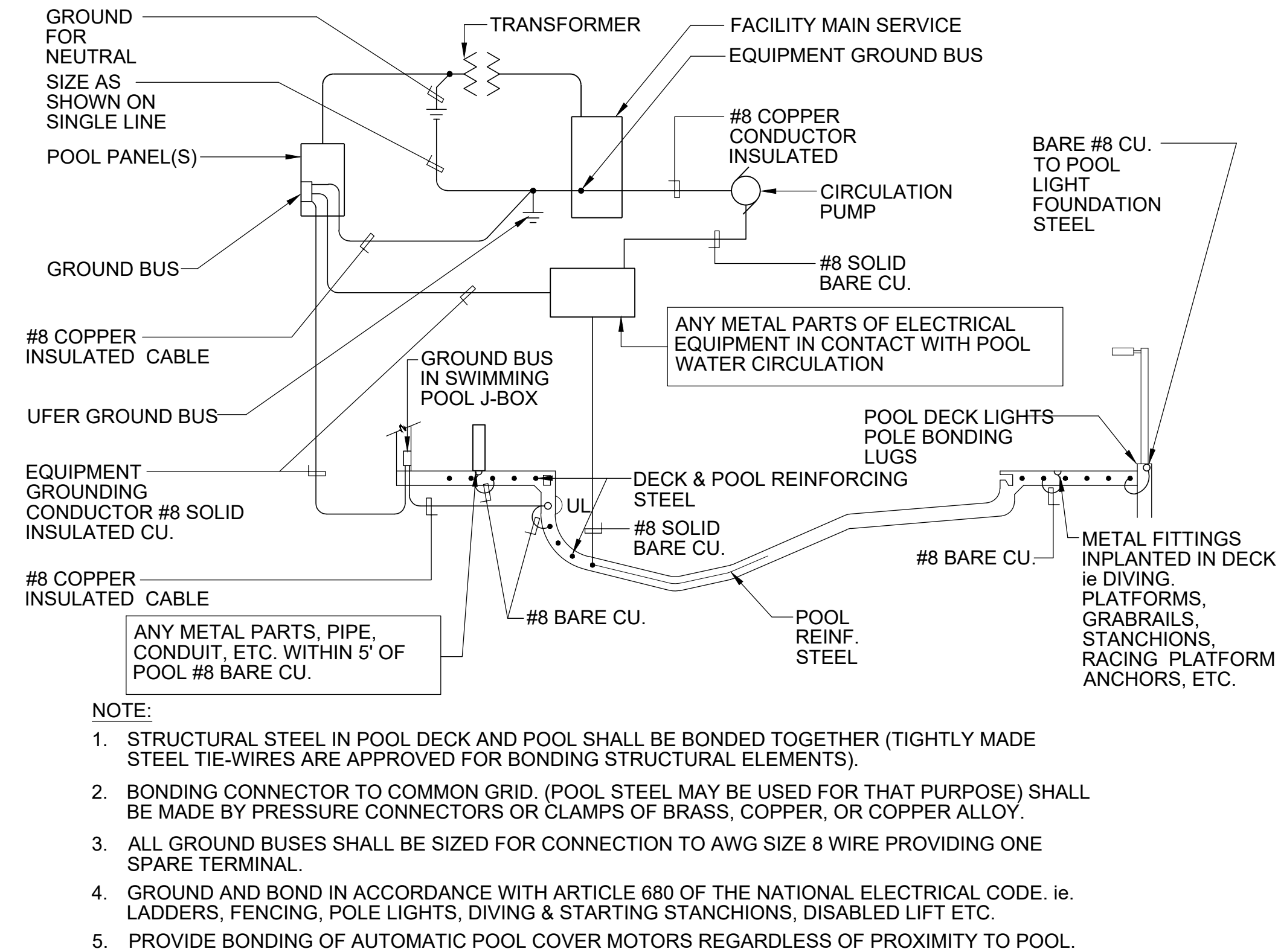




1

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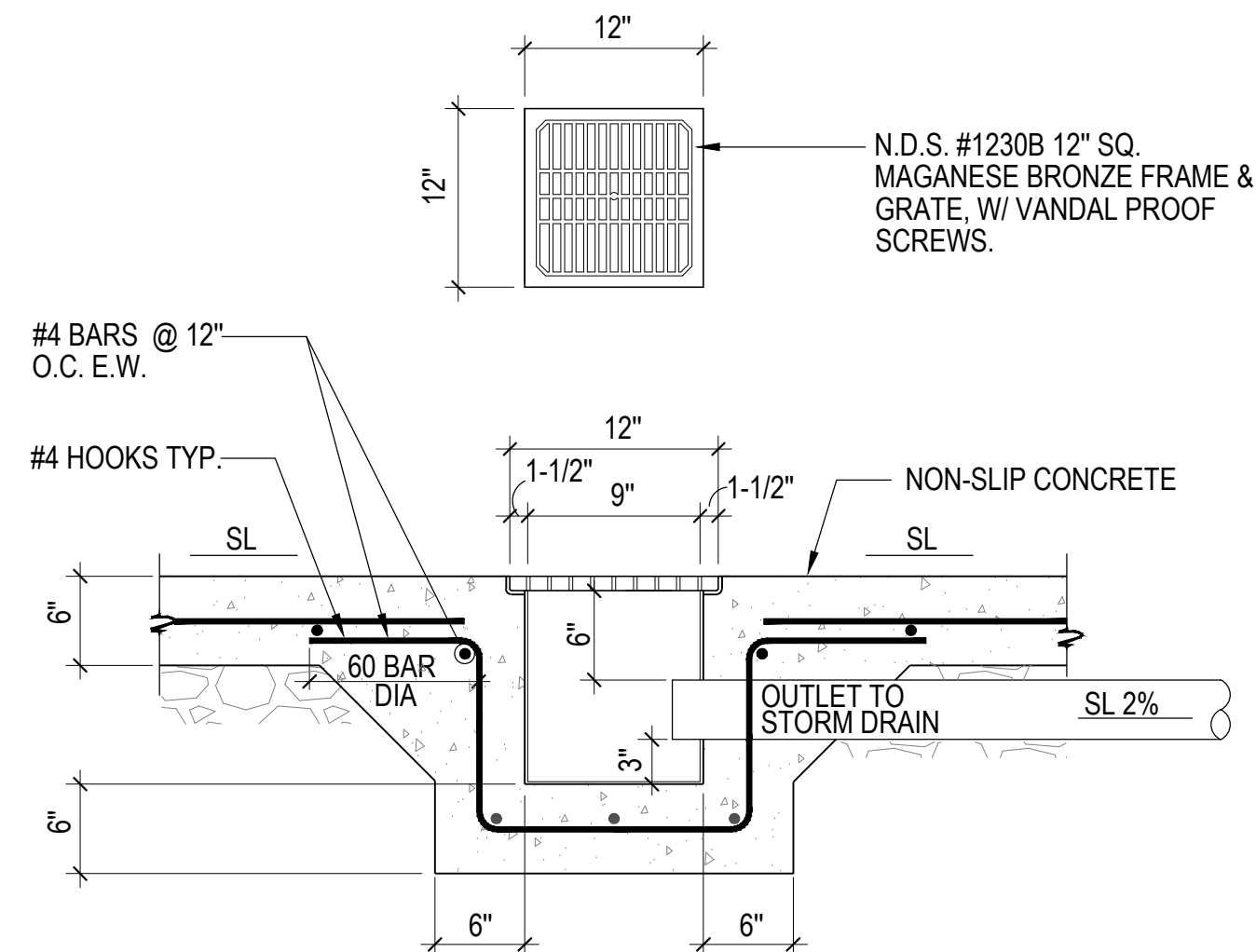
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2

TYPICAL POOL BONDING AND GROUND DETAIL

NO SCALE



3

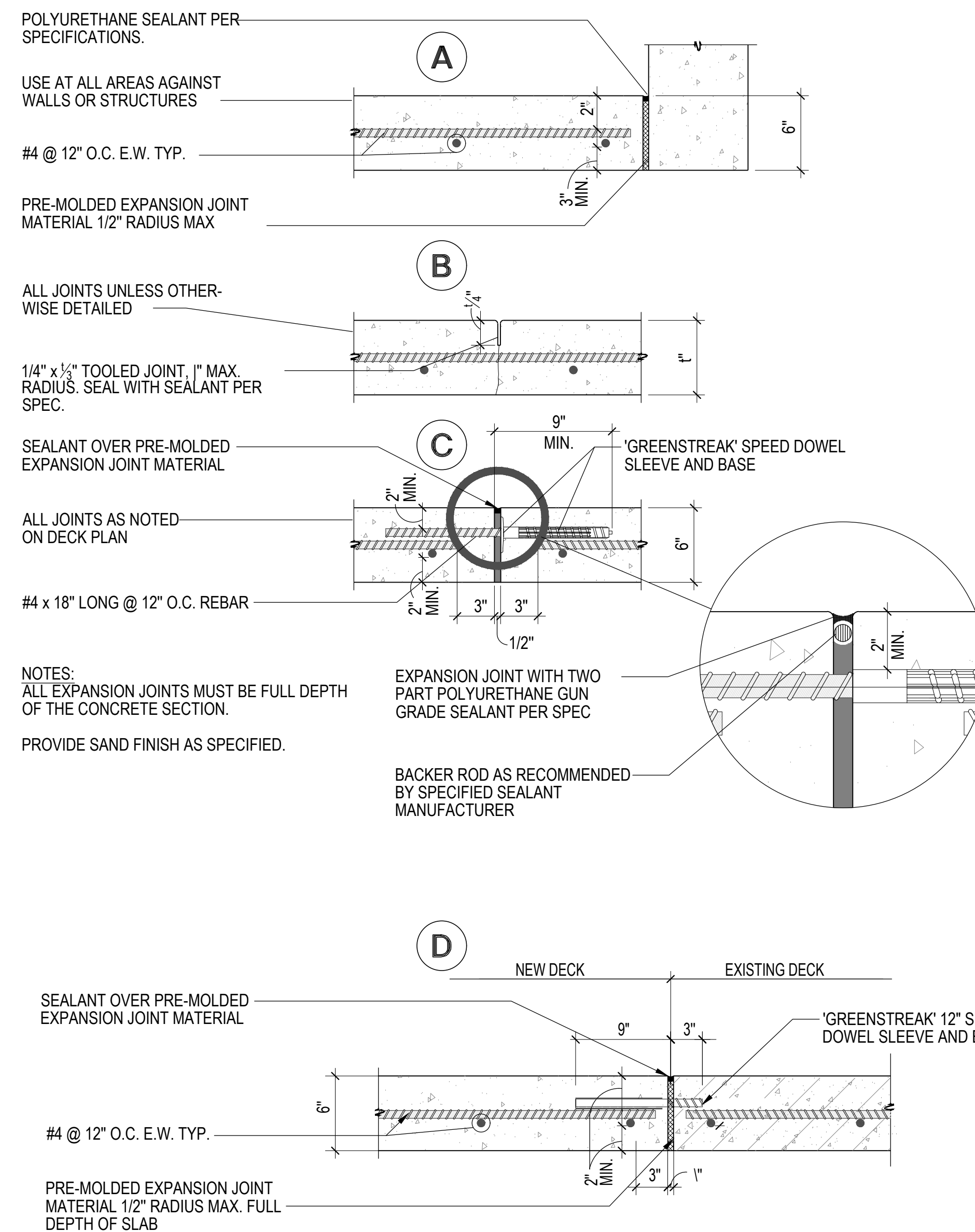
DECK/AREA DRAIN

1"=1'-0"

4

DECK DETAILS

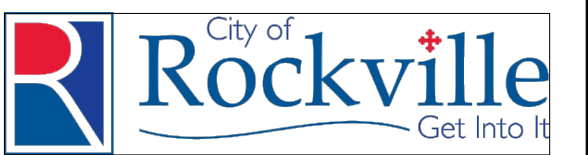
1-1/2" = 1'-0"



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DEPARTMENT OF  
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RENOVATIONS

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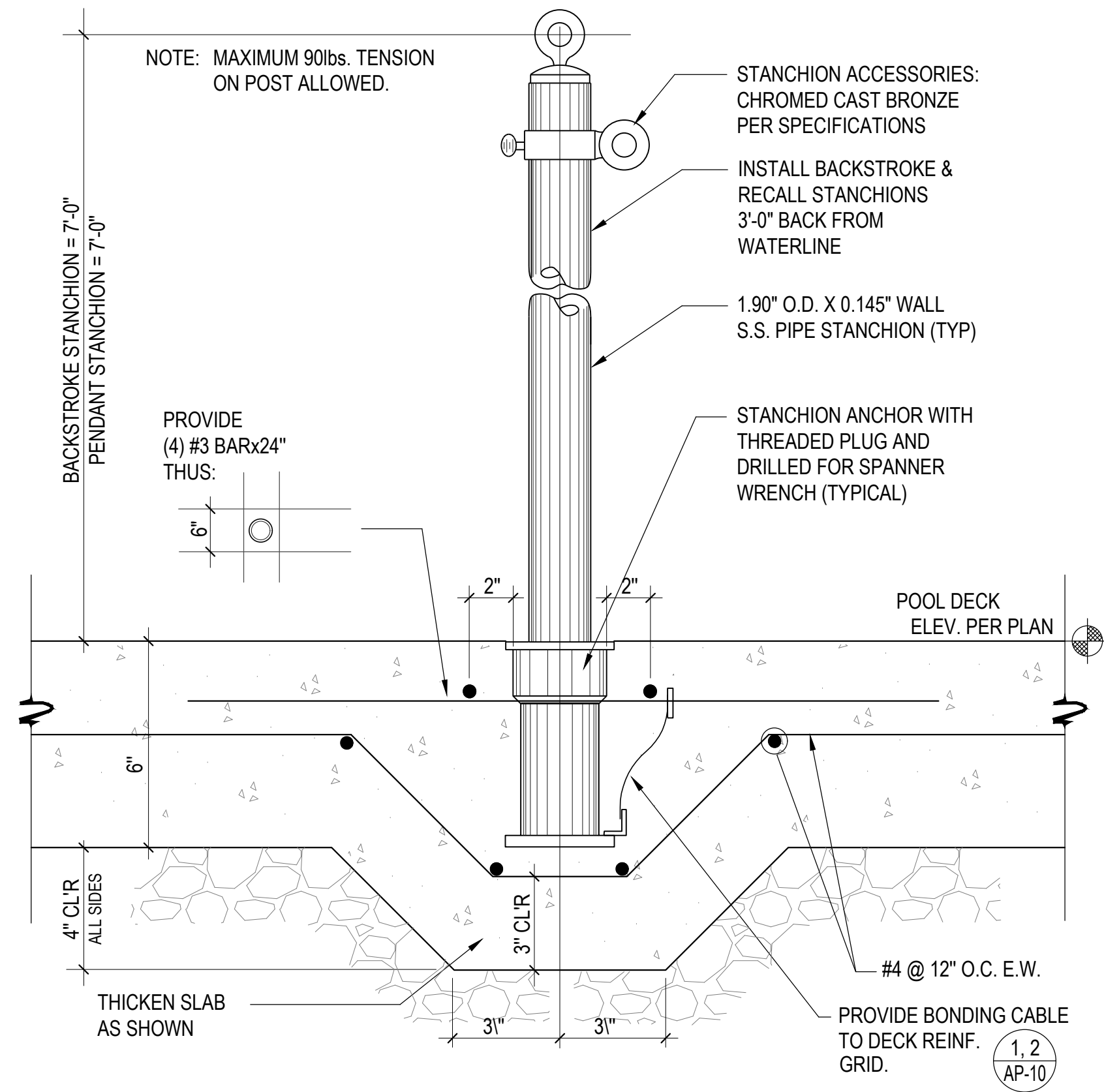
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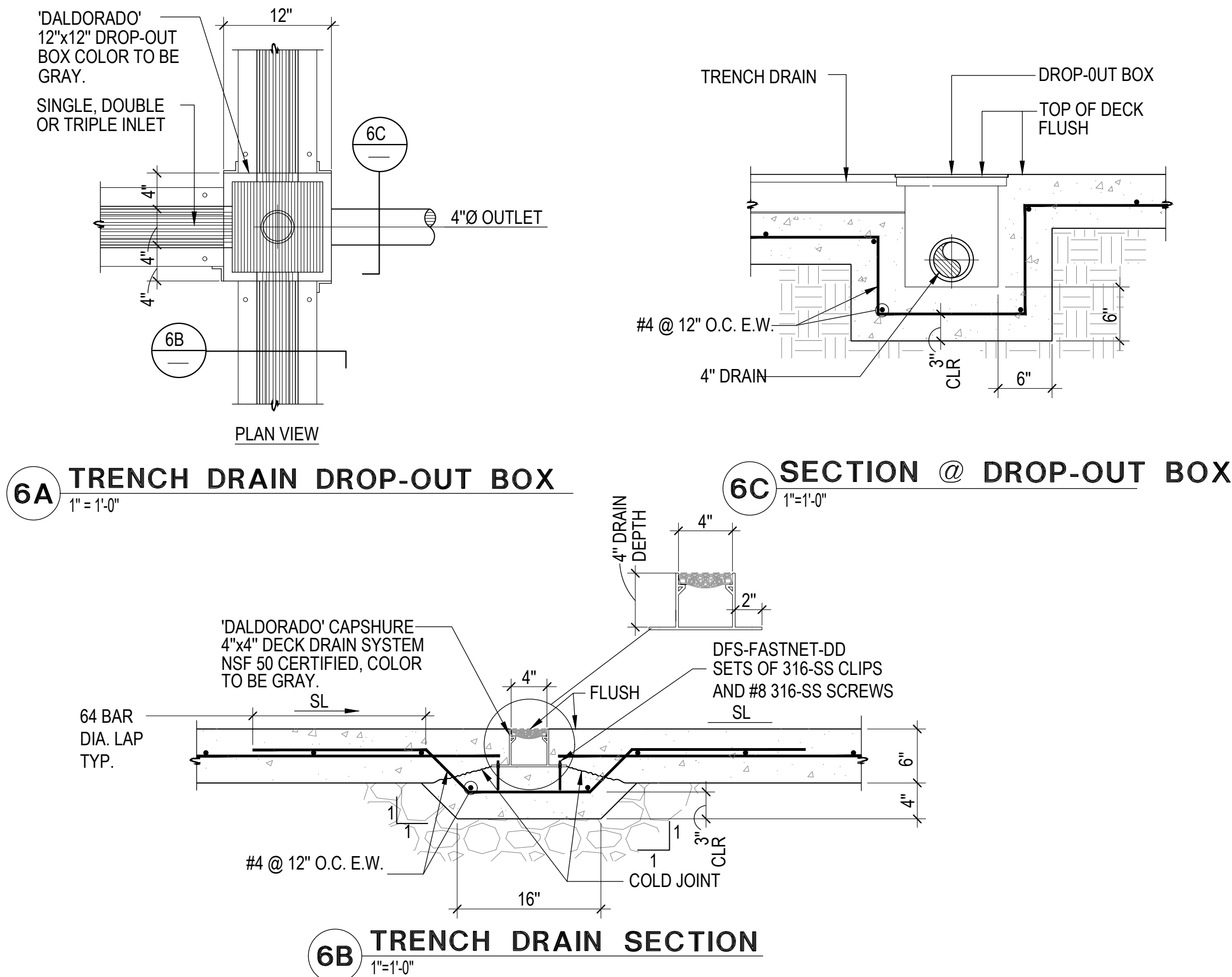




1

STANCHION POST/ANCHOR

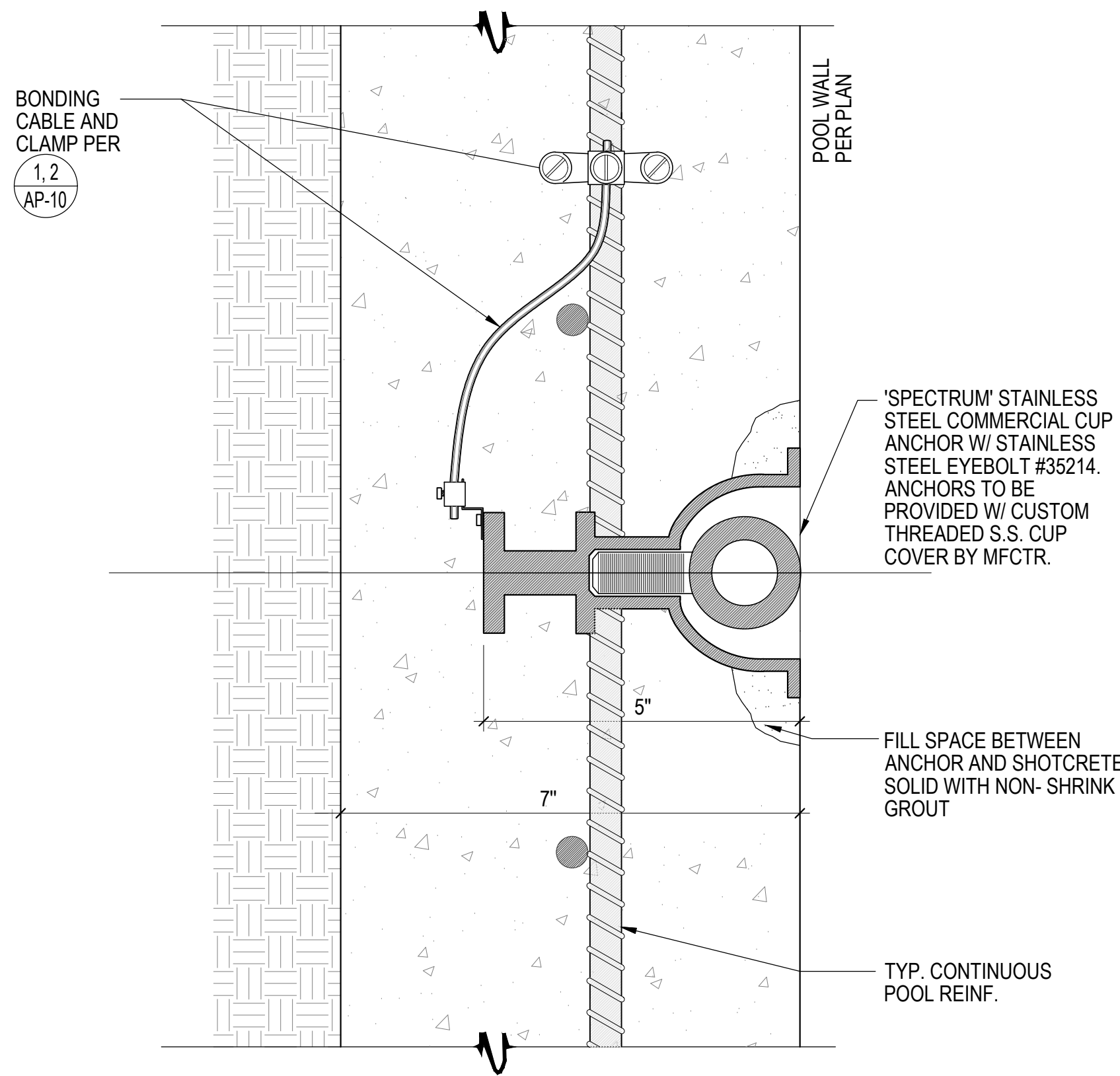
3\"=1'-0"



2

TRENCH DRAIN

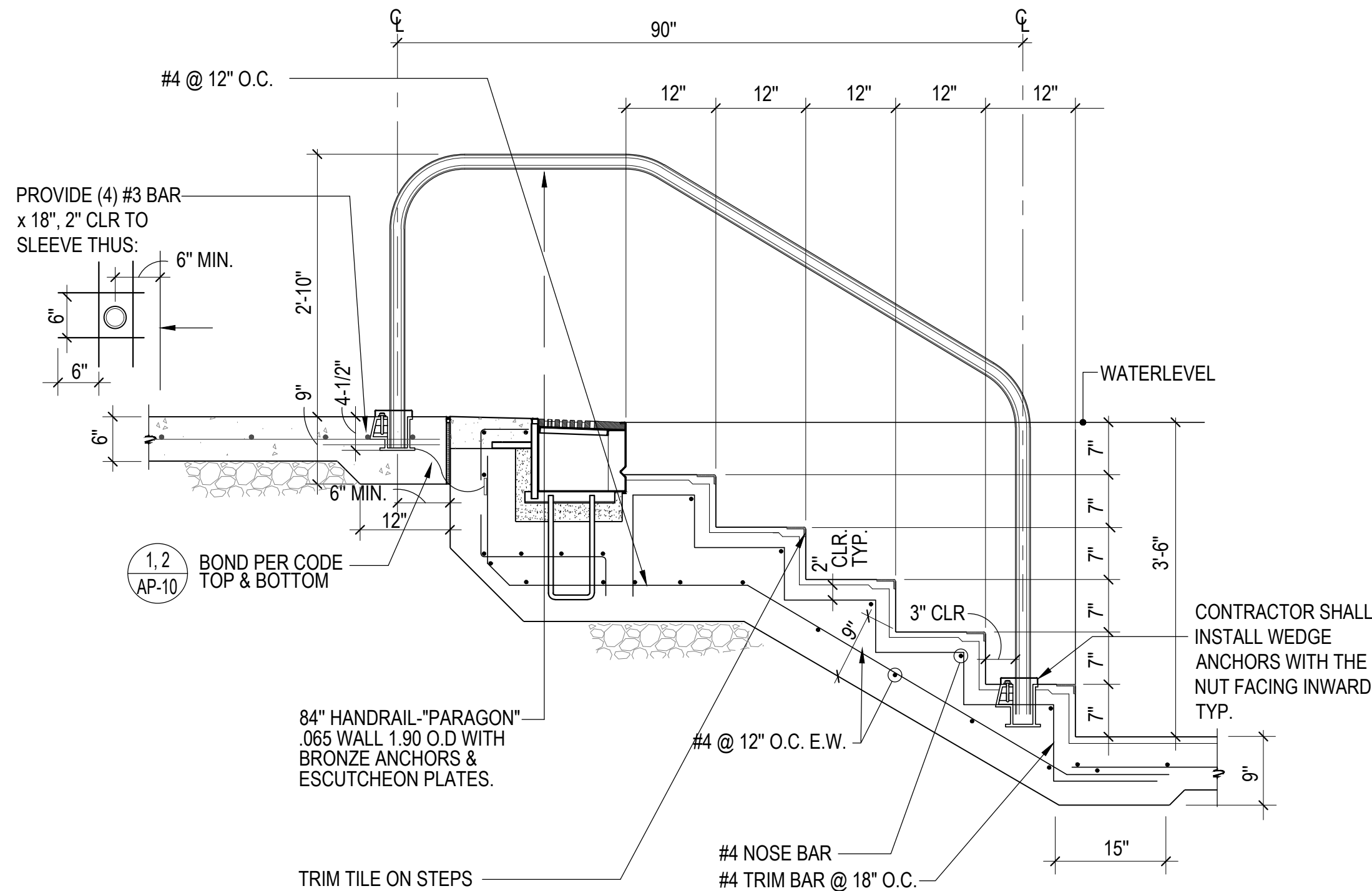
AS NOTED



3

CUP ANCHOR

1/2\"=1"



4

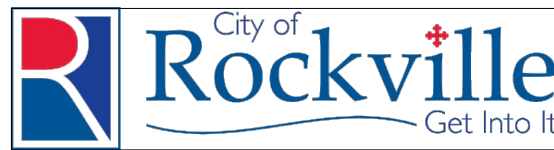
ACTIVITY POOL HANDRAILS

3/4\"=1'-0"

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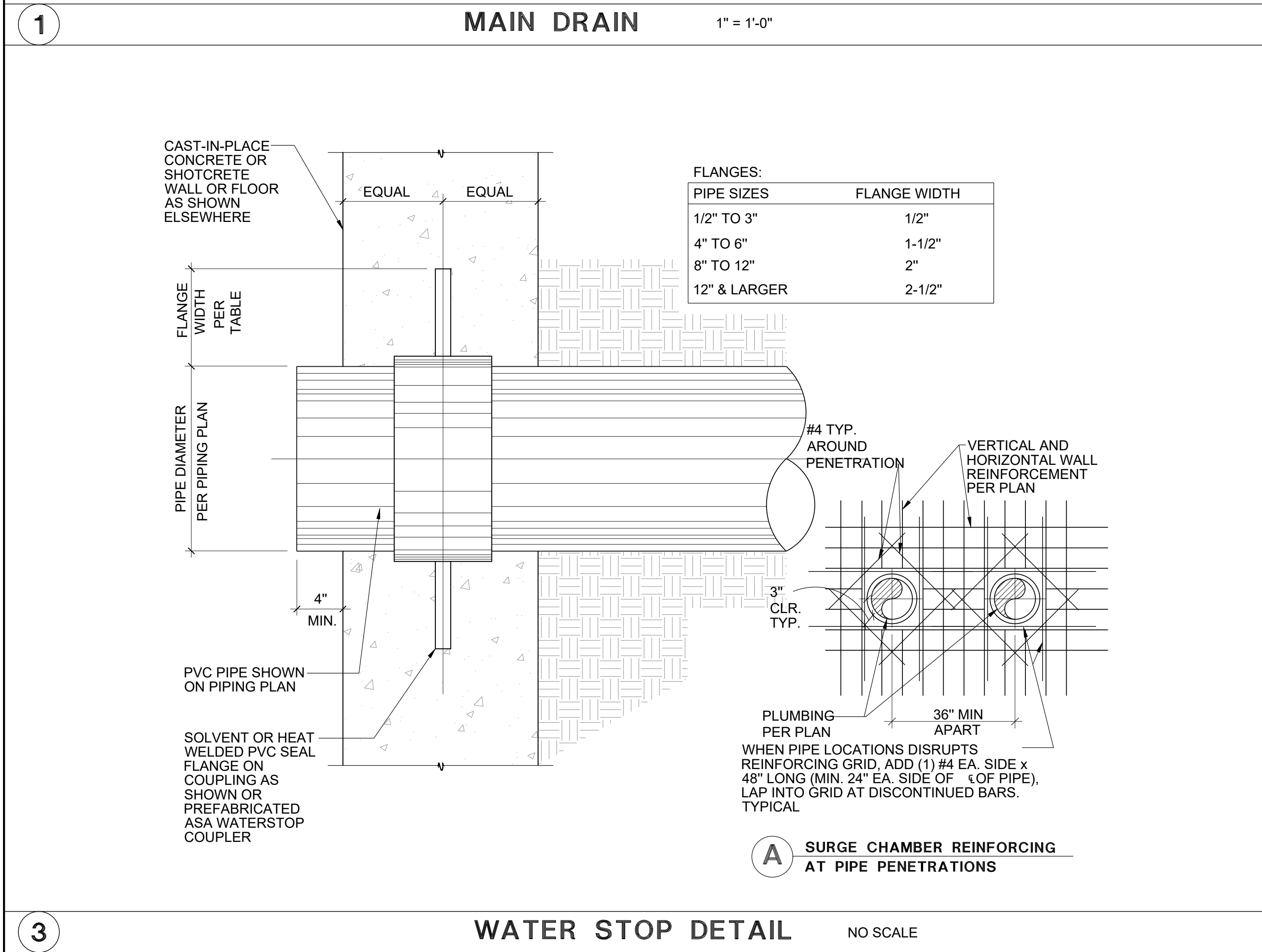
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City of  
**Rockville**  
Get Into It

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Description

Date

Revisions

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AD

Date:

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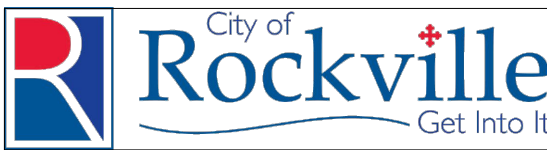
AP-13



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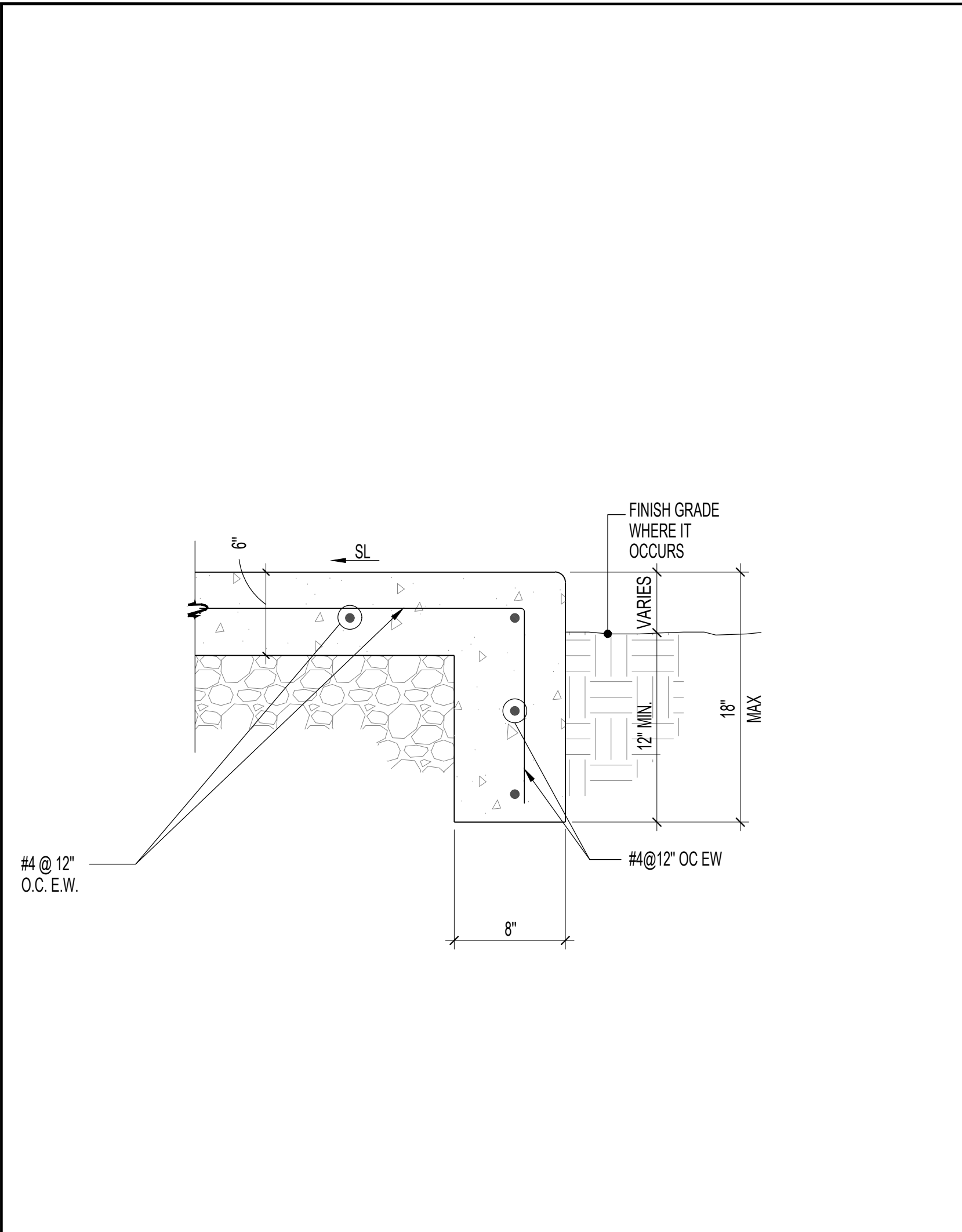
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3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	PERMIT SET 12/08/2023

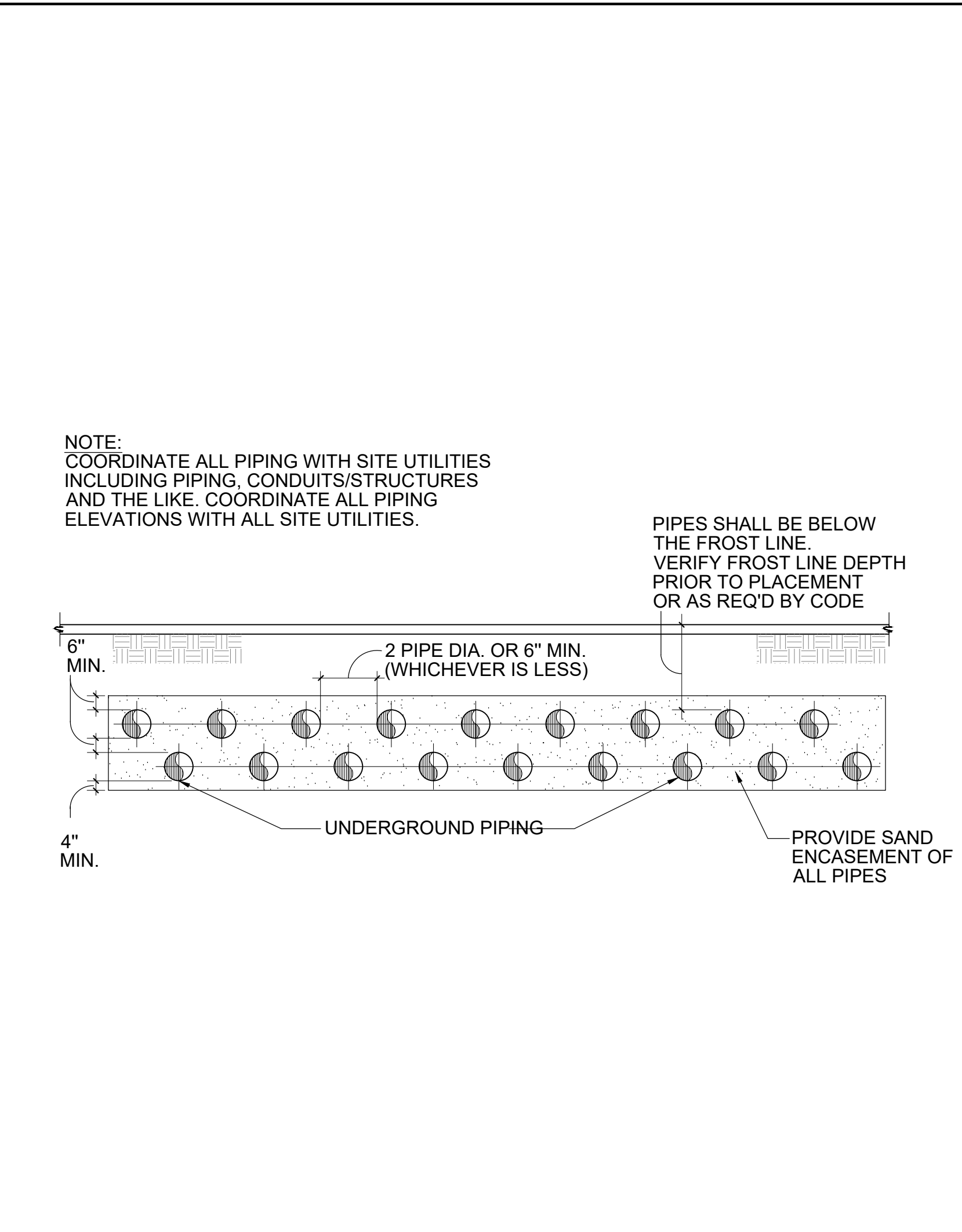
No.	Description	Date
Revisions		

Project Number:	22.00036.00
Scale:	SEE PLAN
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Date:	5/19/2023

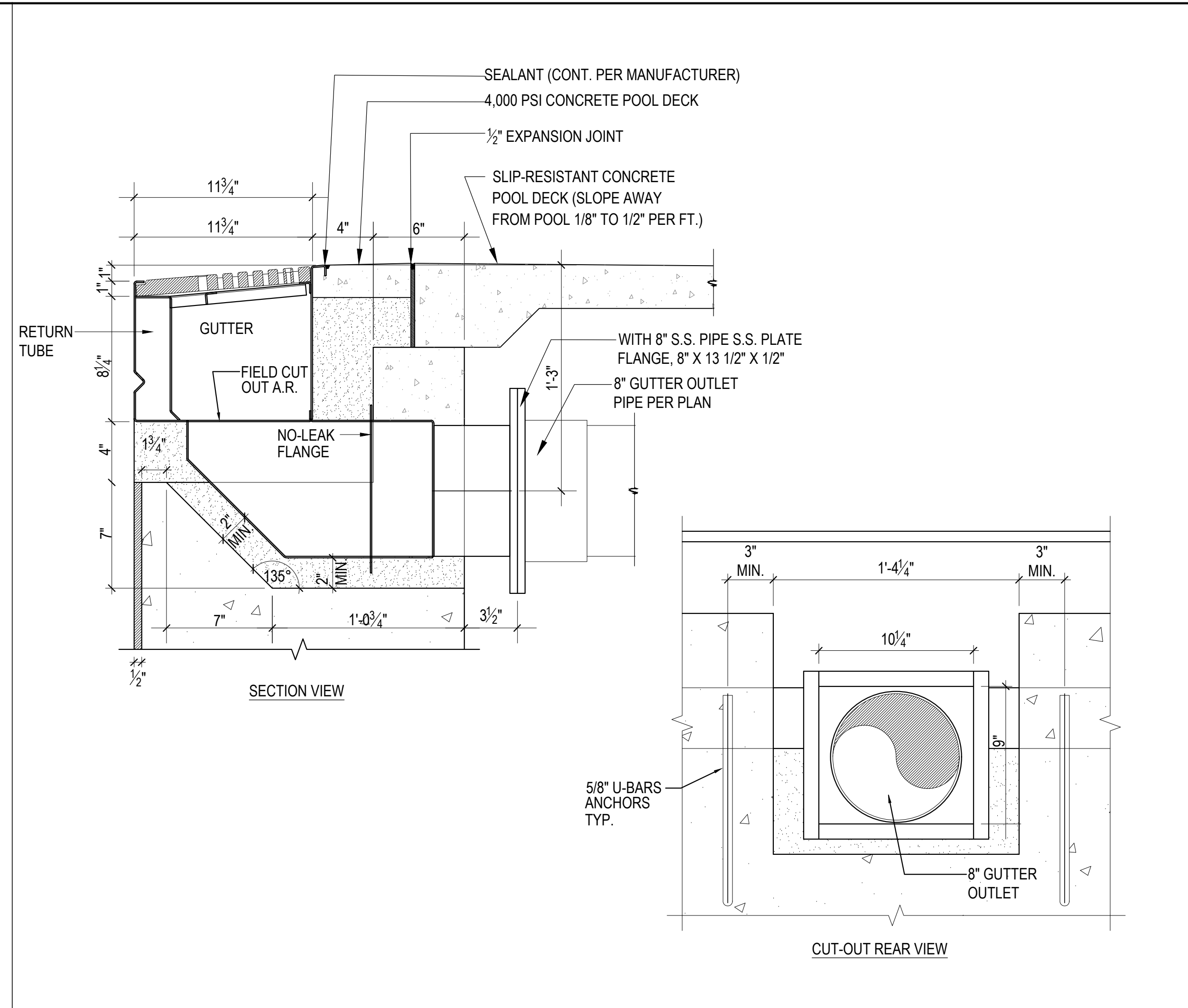
Sheet No. AP-14



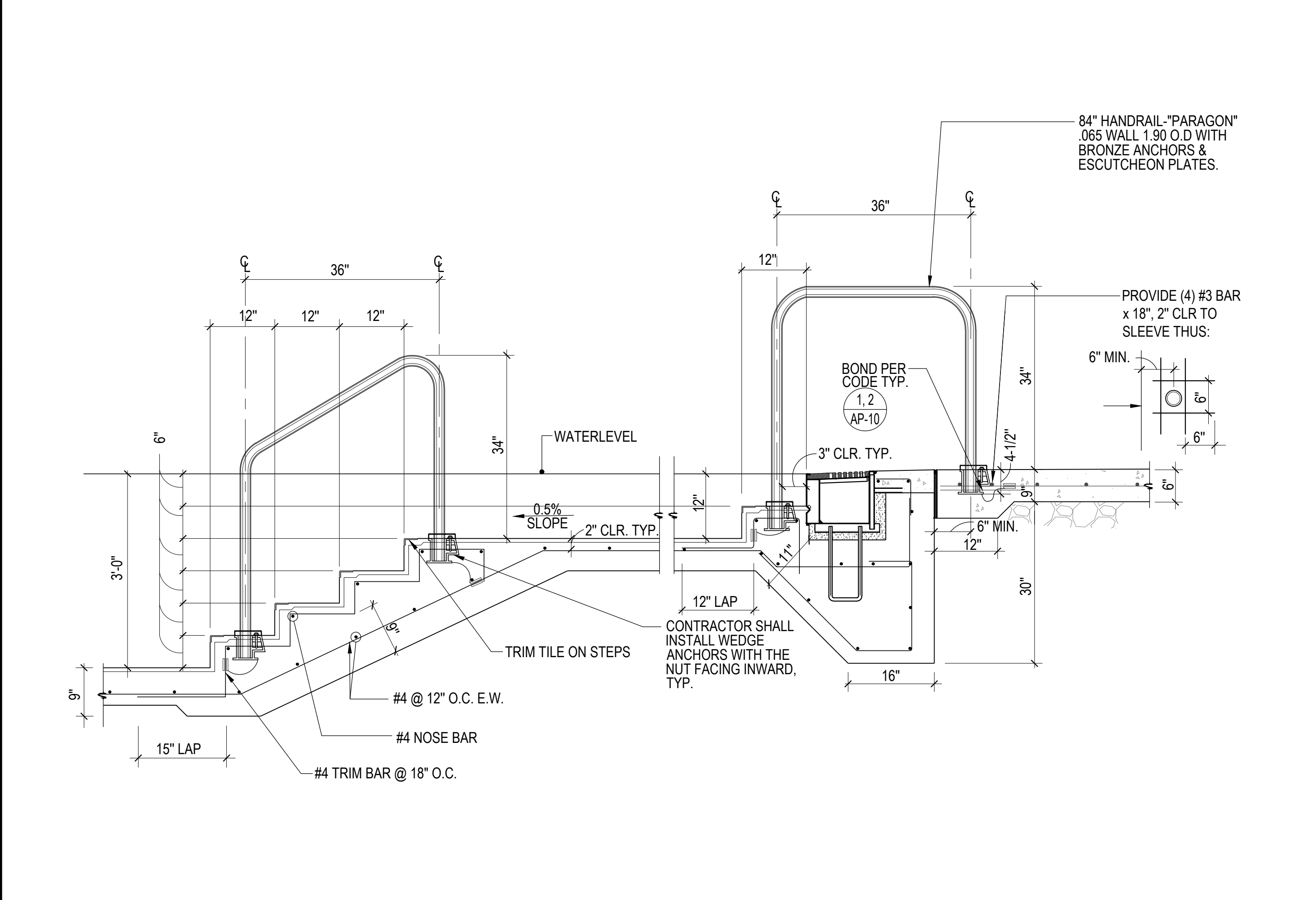
1 TOE DOWN DECK DETAIL 1-1/2"=1'-0"



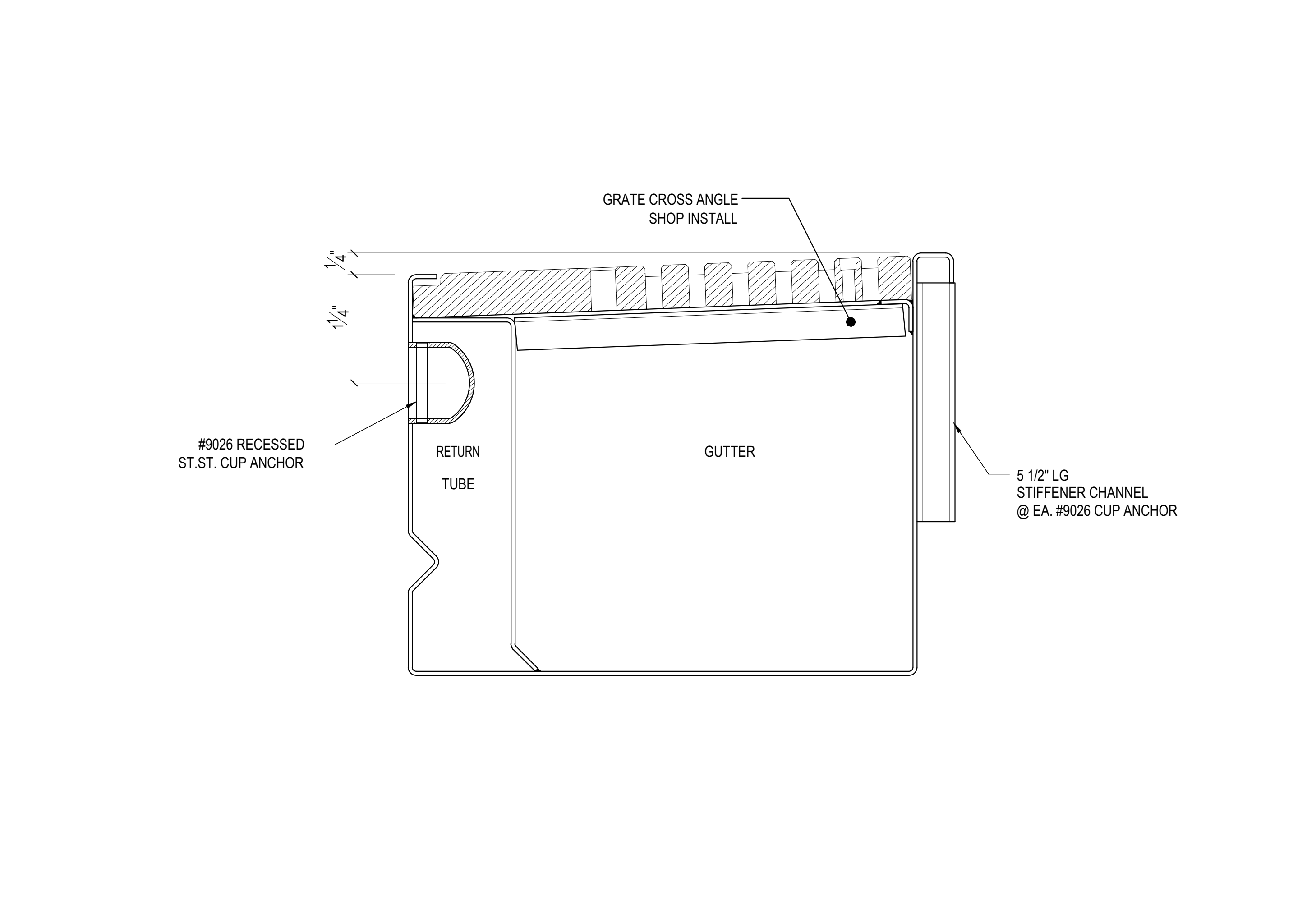
2 STACKED UNDERGROUND PIPING NO SCALE



3 GUTTER OUTLET 1"=6"

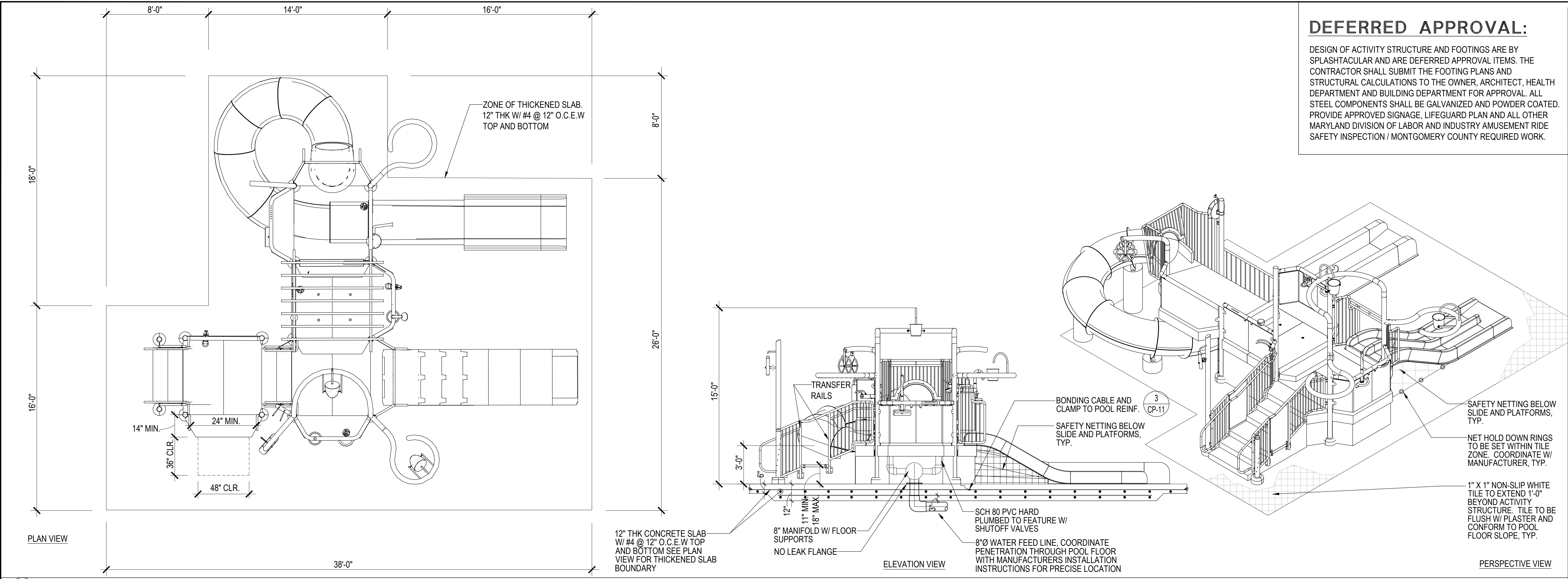


4 ACTIVITY POOL SHELF STAIRS DETAIL 3/4" = 1'-0"



5 INTEGRAL ROPE ANCHOR 3/4" = 1'-0"





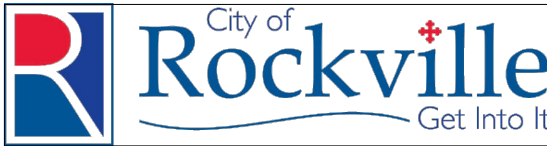
**DEFERRED APPROVAL:**

DESIGN OF ACTIVITY STRUCTURE AND FOOTINGS ARE BY SPLASHTACULAR AND ARE DEFERRED APPROVAL ITEMS. THE CONTRACTOR SHALL SUBMIT THE FOOTING PLANS AND STRUCTURAL CALCULATIONS TO THE OWNER, ARCHITECT, HEALTH DEPARTMENT AND BUILDING DEPARTMENT FOR APPROVAL. ALL STEEL COMPONENTS SHALL BE GALVANIZED AND POWDER COATED. PROVIDE APPROVED SIGNAGE, LIFEGUARD PLAN AND ALL OTHER MARYLAND DIVISION OF LABOR AND INDUSTRY AMUSEMENT RIDE SAFETY INSPECTION / MONTGOMERY COUNTY REQUIRED WORK.

**LSG LANDSCAPE  
ARCHITECTURE**

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



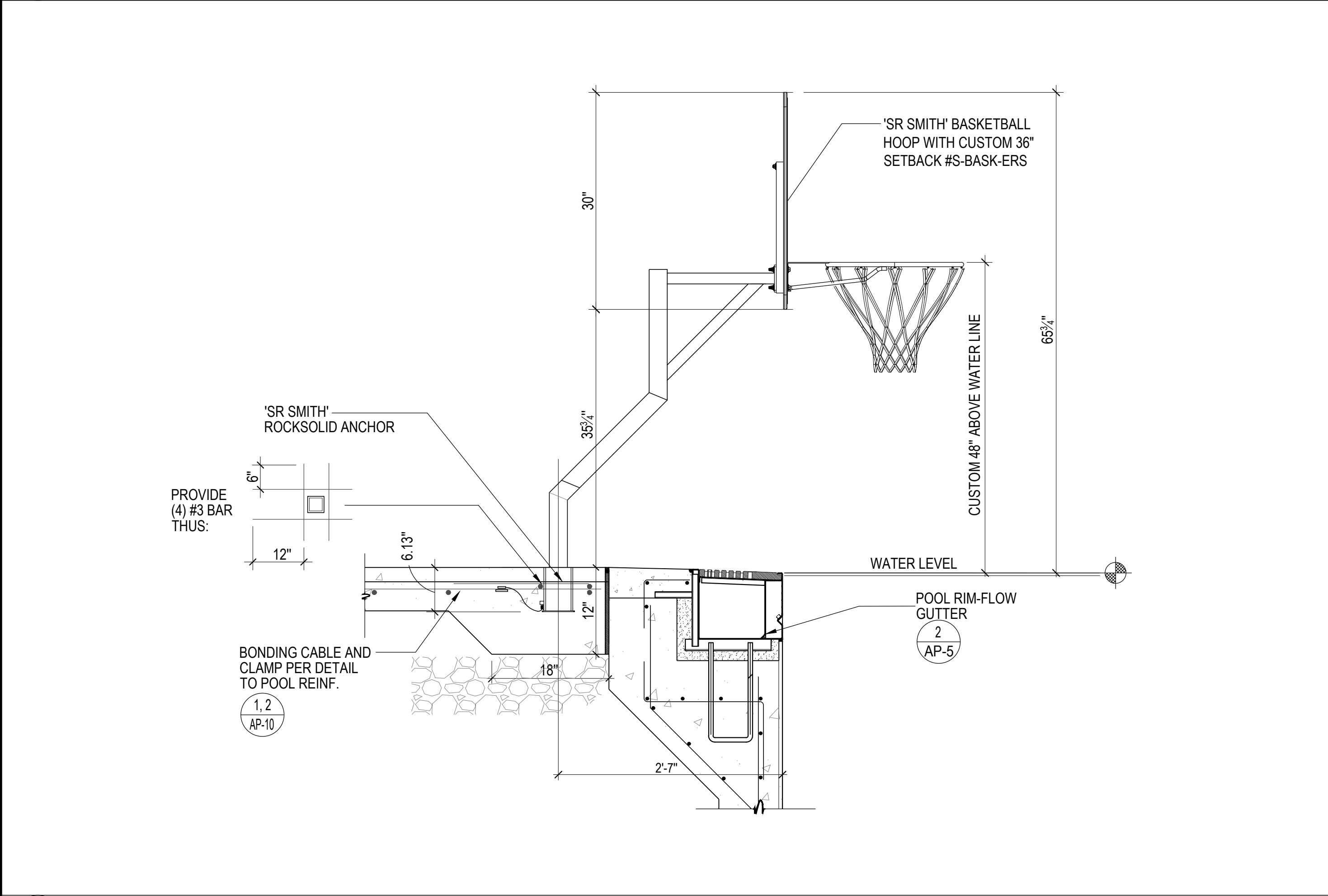
DEPARTMENT OF  
RECREATION AND PARKS

**OUTDOOR  
RECREATION POOL  
RENOVATIONS**

**PLAY STRUCTURE**

1/4" = 1'-0"

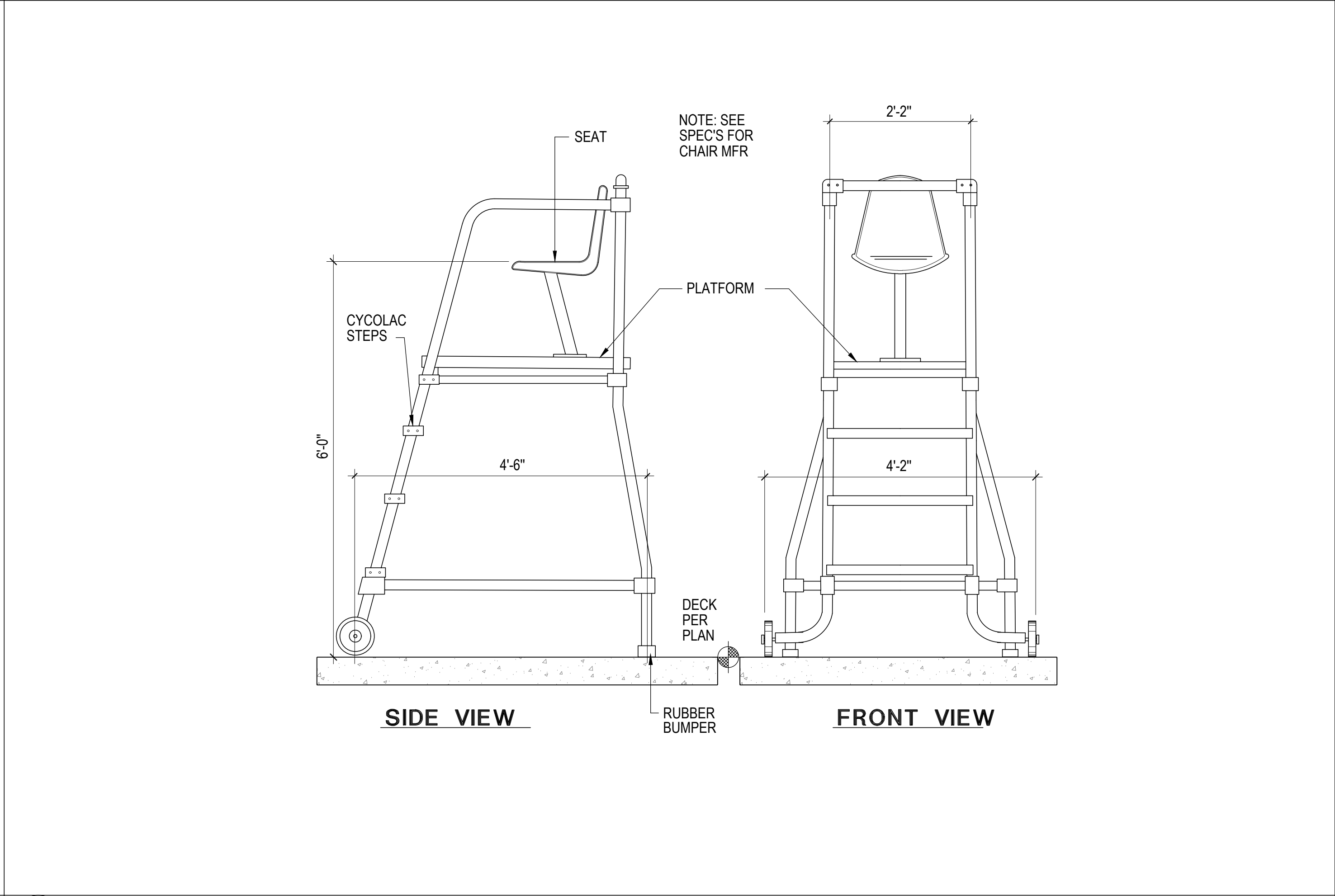
1



**BASKETBALL BACKBOARD**

1"=1'-0"

2



**MOVEABLE LIFEGUARD CHAIR**

3/4"=1'-0"

3

**DETAILS**

**PERMIT SET  
NFC**

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Revisions		

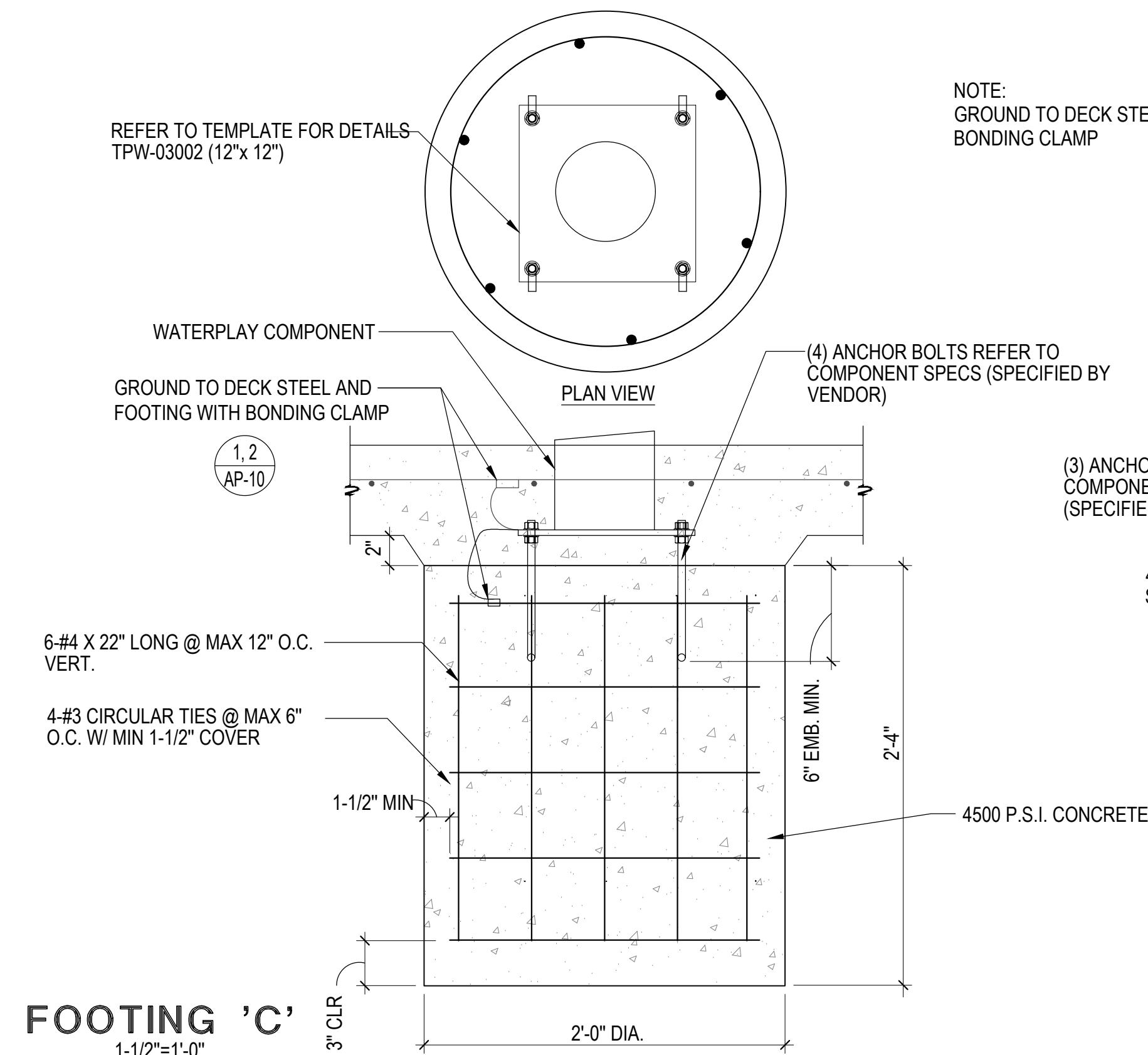
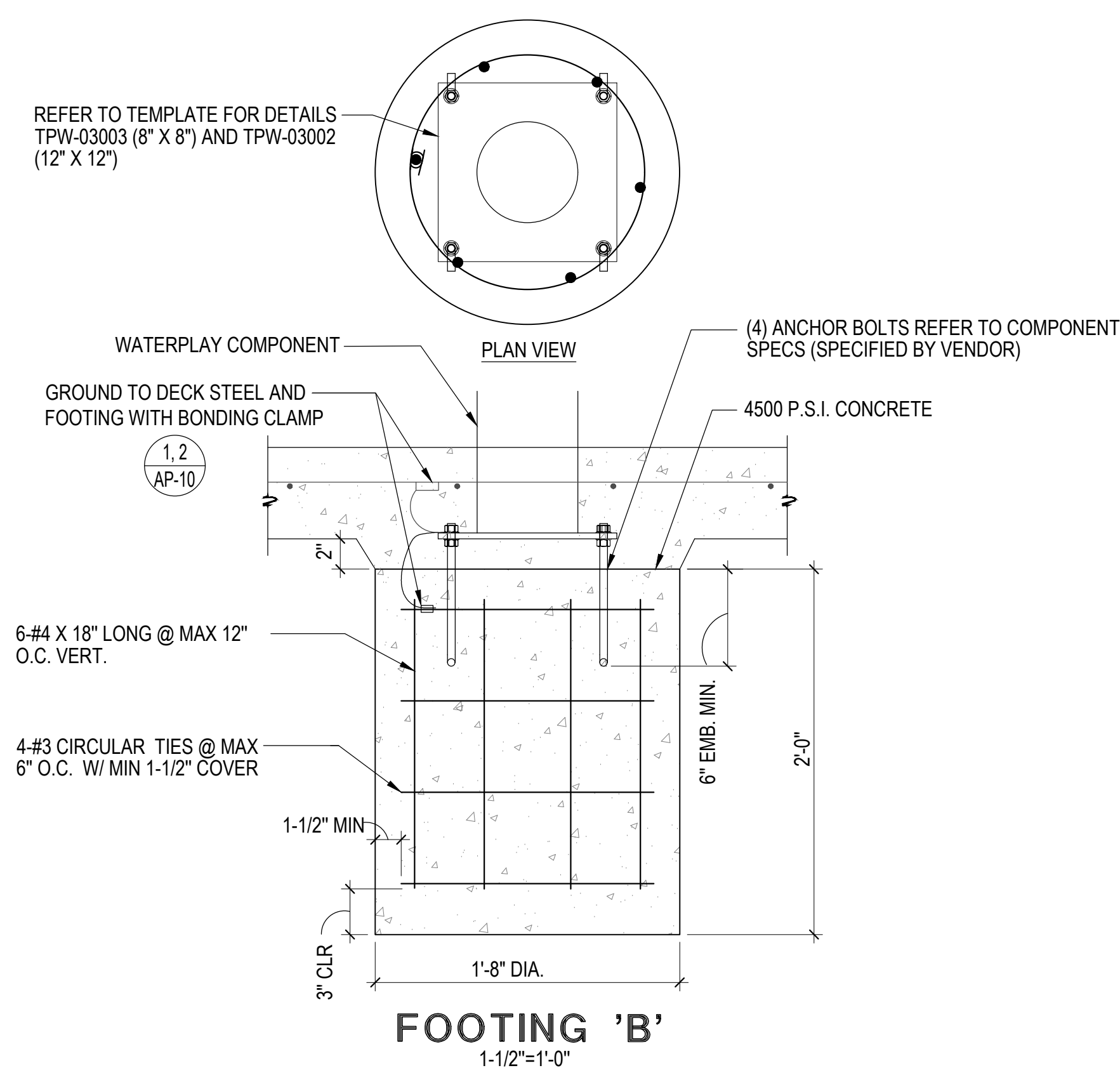
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Sheet No. **AP-15**

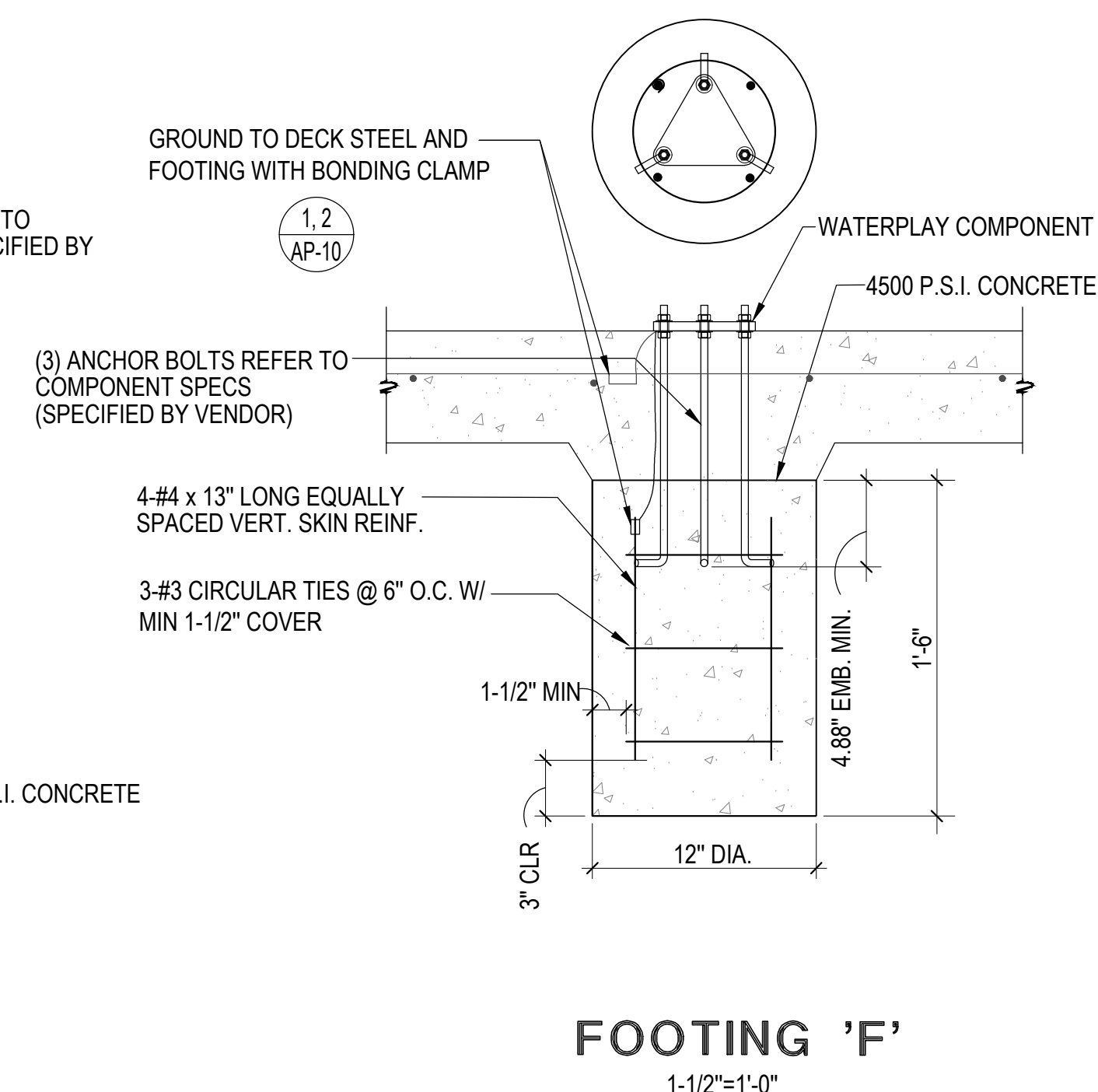








NOTE:  
GROUND TO DECK STEEL WITH  
BONDING CLAMP



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DEPARTMENT OF  
RECREATION AND PARKS

## OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

## DETAILS

# PERMIT SET NFC

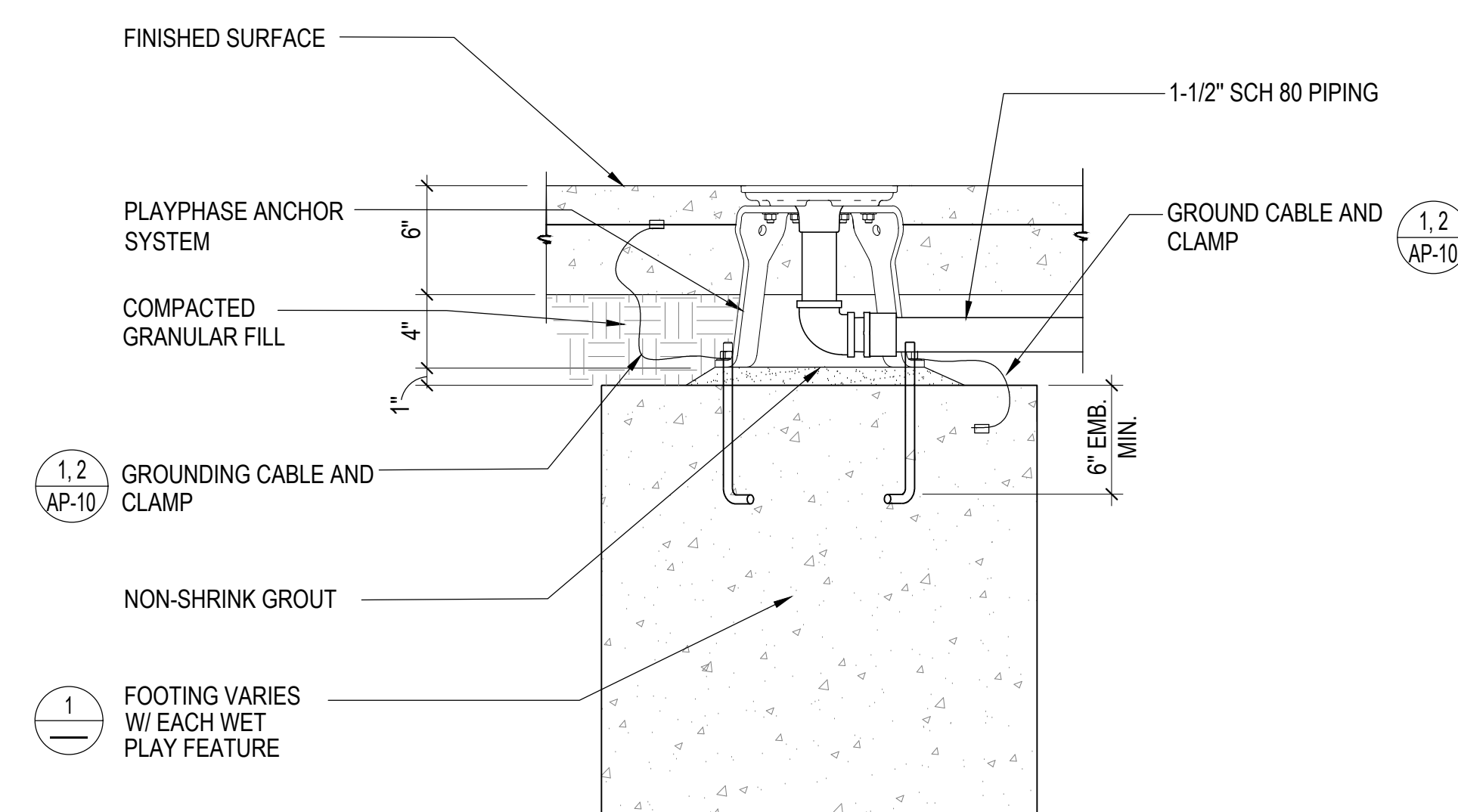
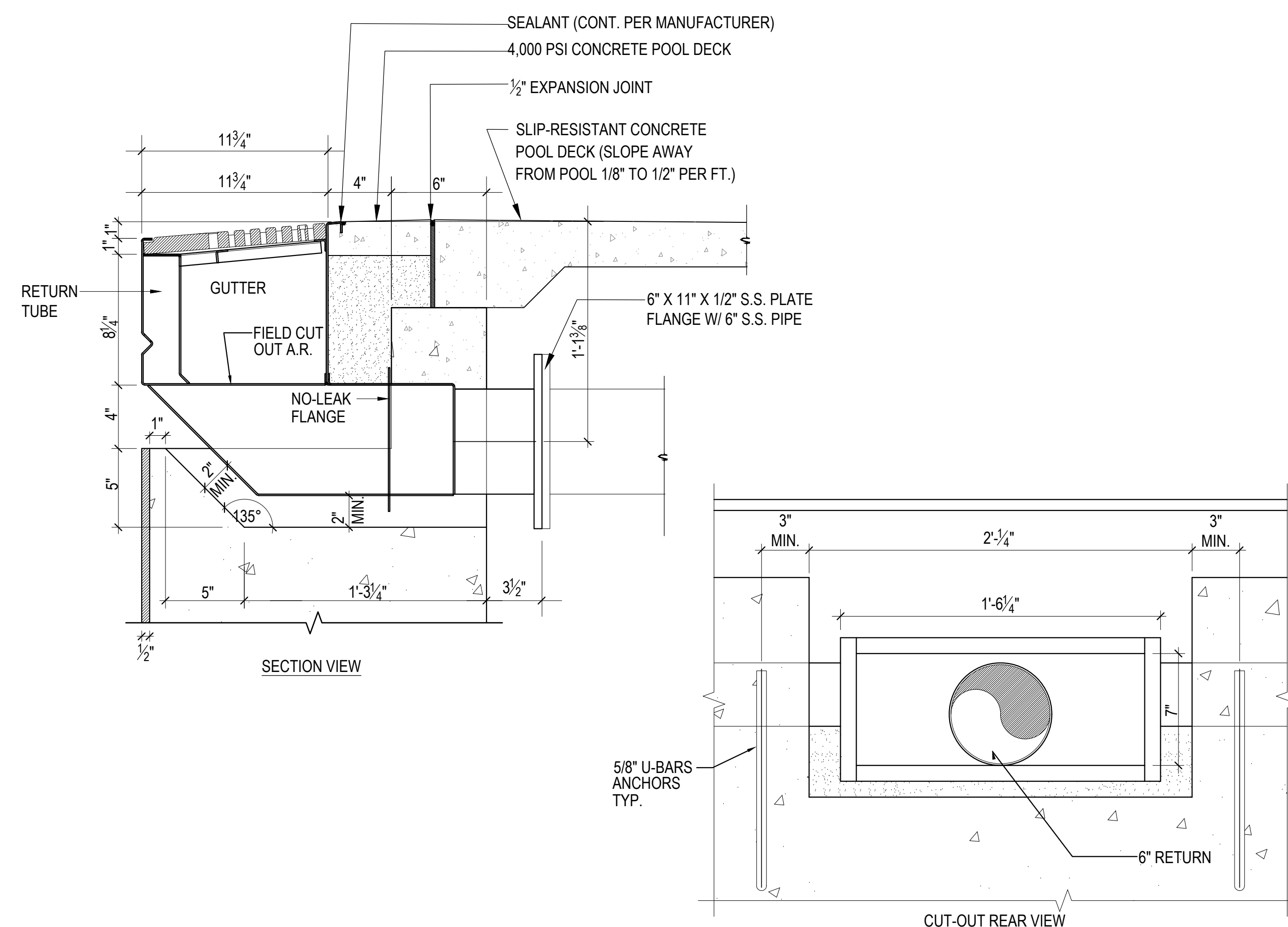
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<b>Revisions</b>		
Project Number:	22.00036.00	
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Sheet No \_\_\_\_\_

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## WATER ELEMENT FOOTINGS

$$1-1/2''=1'-0''$$


## INTEGRATED RETURN TUBE

$$1'' = 1'-0''$$

## PLAYPHASE ANCHOR SYSTEM

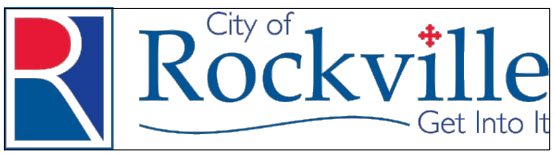
$$1\frac{1}{2}" = 1'-0"$$



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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

DETAILS

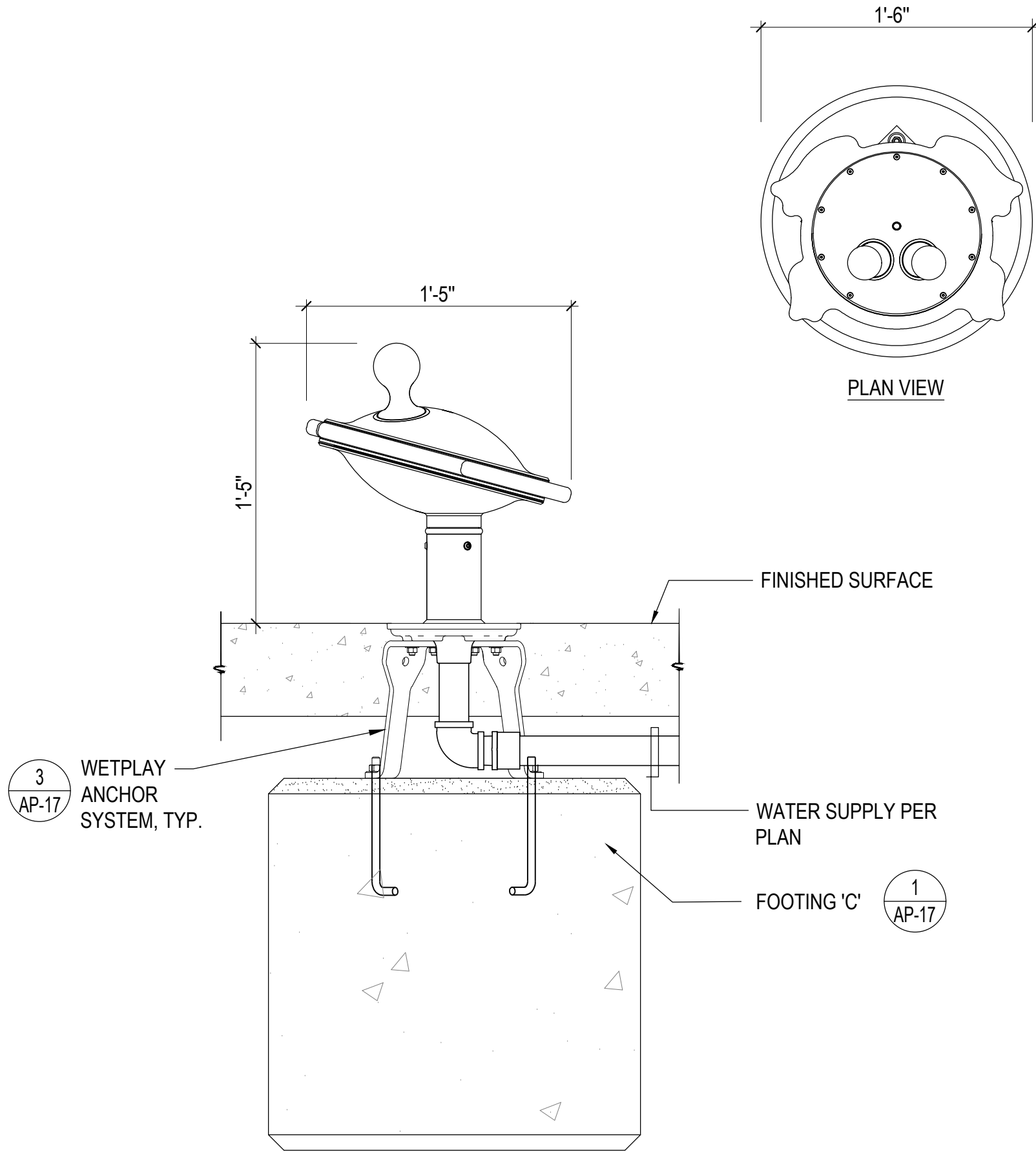
PERMIT SET  
NFC

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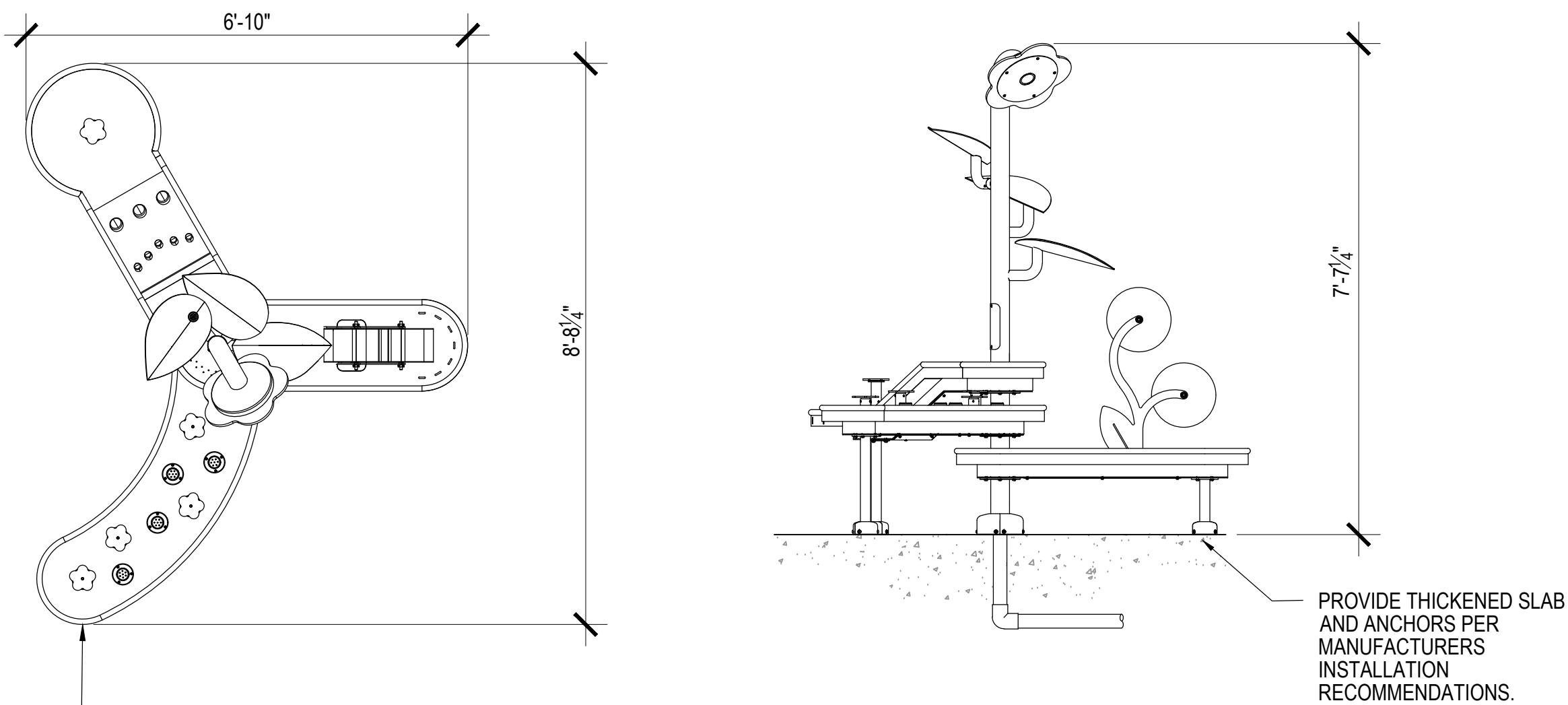
Sheet No. AP-18



1

HOPPER

1"=1'-0"

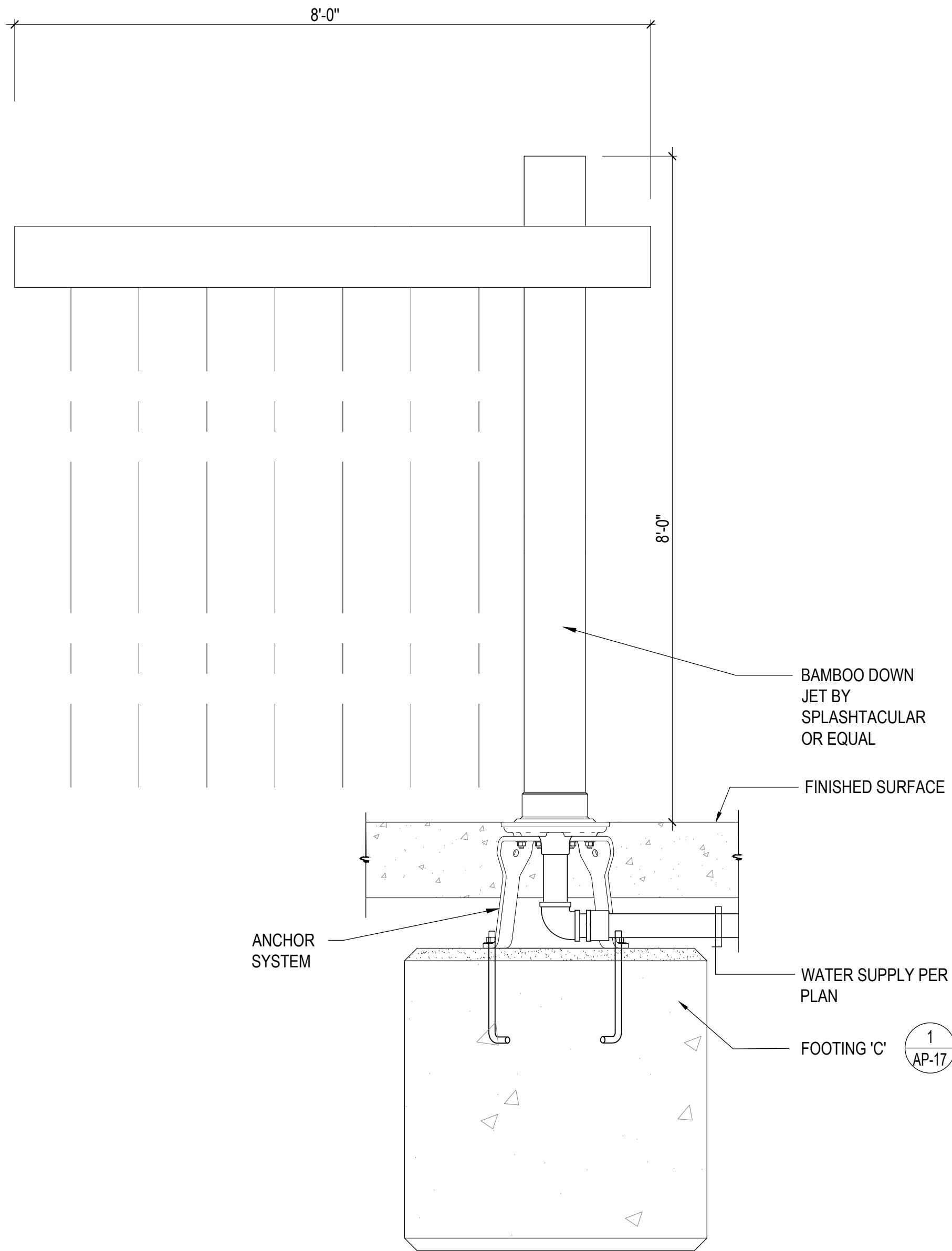


WATER TROUGH  
GARDEN BY  
SPLASHTACULAR  
OR EQUAL

PROVIDE THICKENED SLAB  
AND ANCHORS PER  
MANUFACTURERS  
INSTALLATION  
RECOMMENDATIONS.

2

WATER TROUGH GARDEN



BAMBOO DOWN  
JET BY  
SPLASHTACULAR  
OR EQUAL

FINISHED SURFACE

ANCHOR  
SYSTEM

WATER SUPPLY PER  
PLAN

FOOTING 'C'

1  
AP-17

3

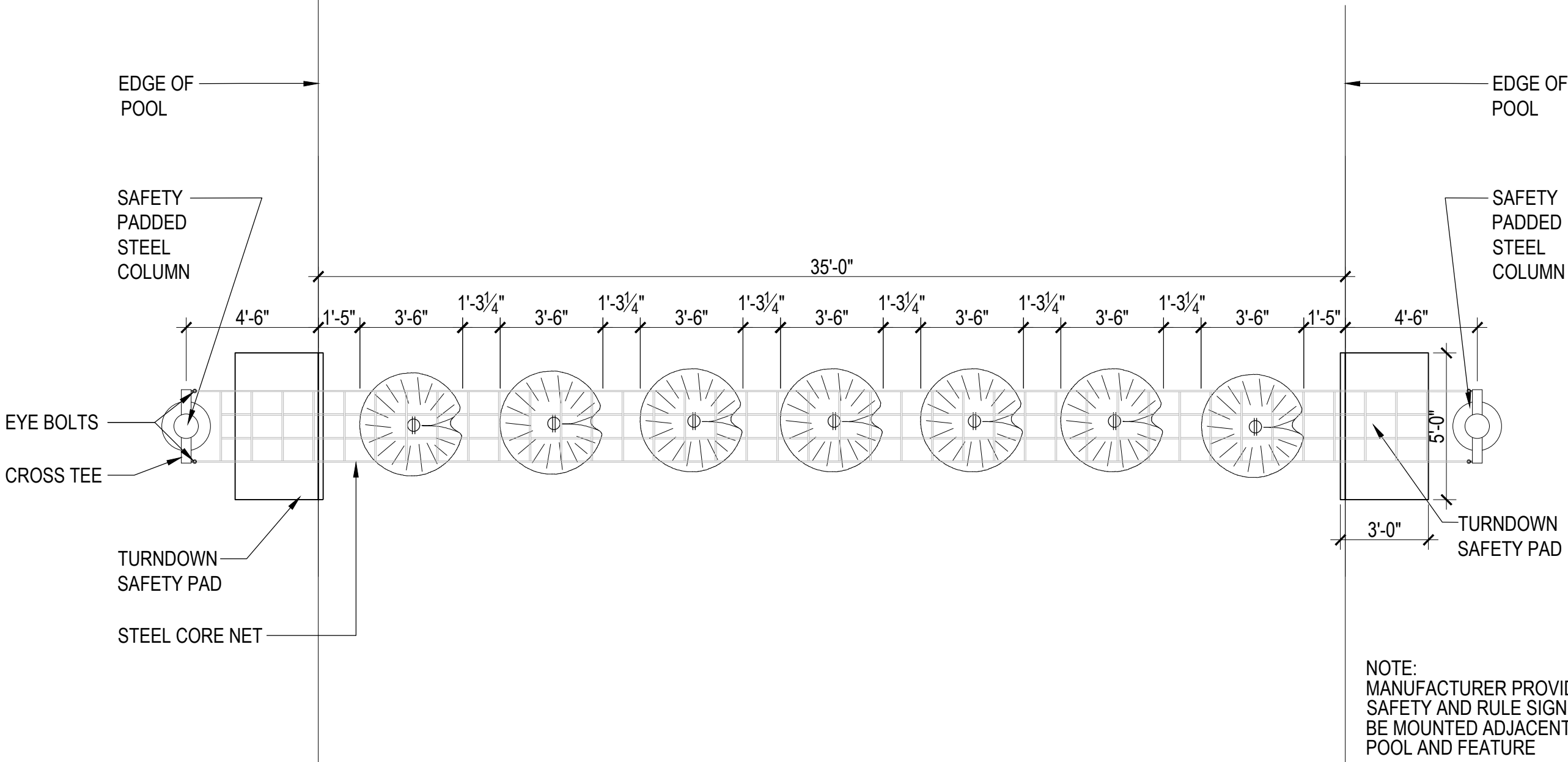
BAMBOO DOWN JET

NO SCALE



DEFERRED APPROVAL:

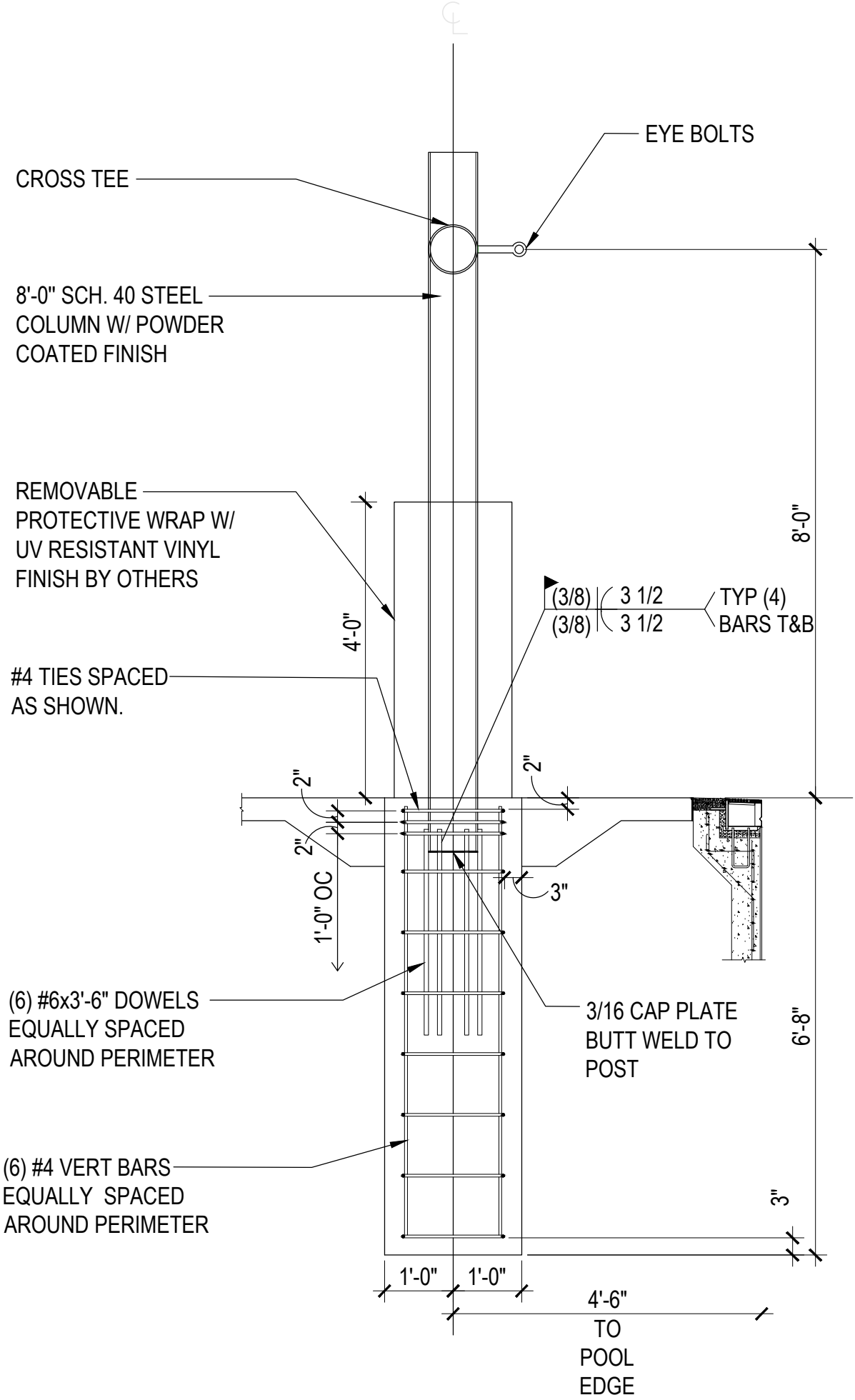
DESIGN OF LILY PADS AND POSTS ARE BY PLAYTIME AND ARE DEFERRED APPROVAL ITEMS. THE CONTRACTOR SHALL SUBMIT THE LILY PAD AND POST FOOTING PLANS AND STRUCTURAL CALCULATIONS TO THE OWNER, ARCHITECT, HEALTH DEPARTMENT AND BUILDING DEPARTMENT FOR APPROVAL. ALL STEEL COMPONENTS SHALL BE GALVANIZED AND POWDER COATED. PROVIDE APPROVED SIGNAGE, LIFE GUARD PLAN AND ALL OTHER MARYLAND DIVISION OF LABOR AND INDUSTRY AMUSEMENT RIDE SAFETY INSPECTION / MONTGOMERY COUNTY REQUIRED WORK.



1

LILY PAD PLAN DETAIL

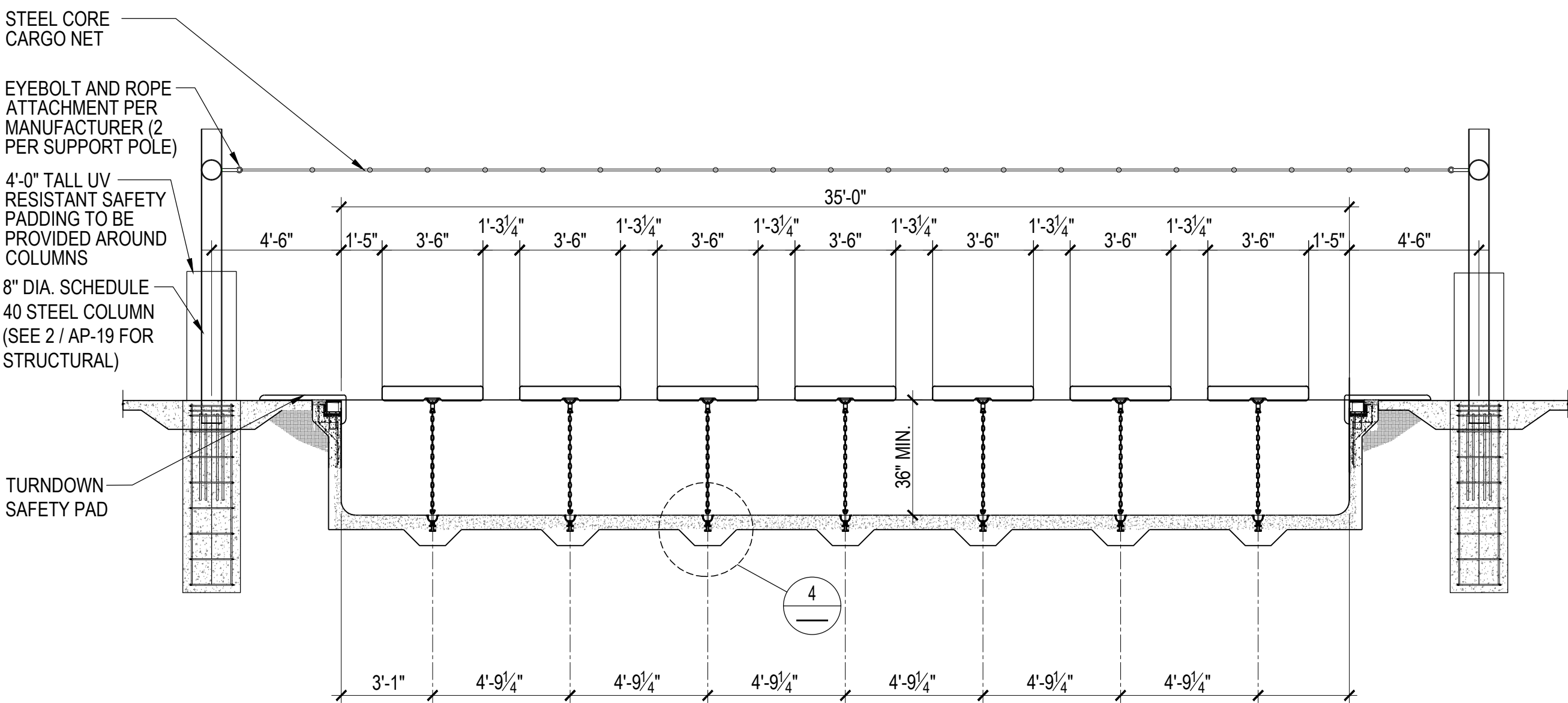
1/4" = 1'-0"



2

PLAYTIME WATER WALK POST DETAIL

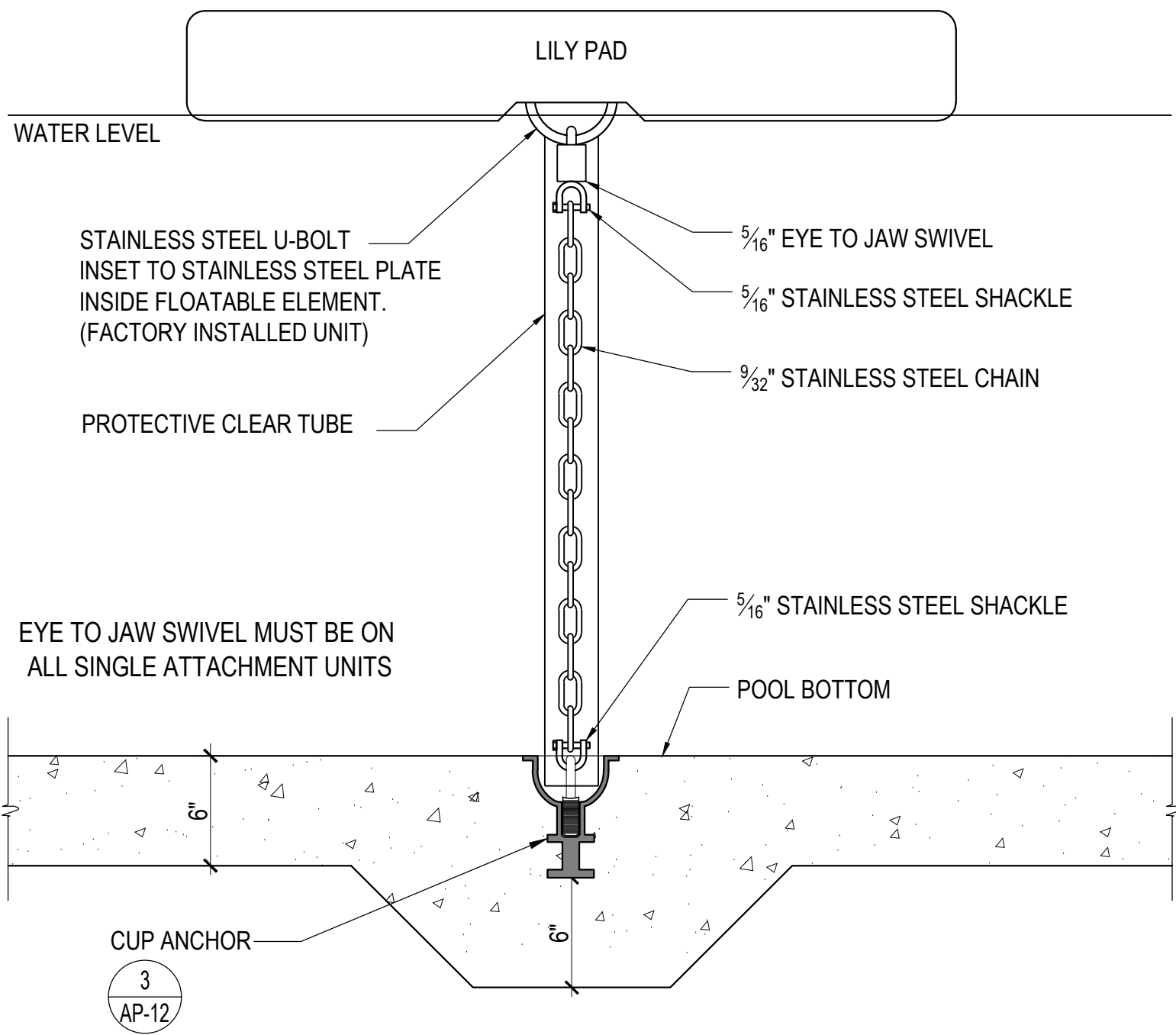
1/2" = 1'-0"



3

LILY PAD SECTION DETAIL

1/4" = 1'-0"



4

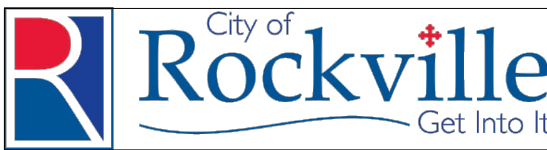
LILY PAD ANCHOR DETAIL

1-1/2" = 1'-0"

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ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

DETAILS

PERMIT SET  
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Sheet No.

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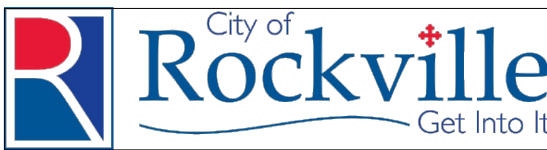
DEFERRED APPROVAL:

DESIGN OF SLIDE BY SR SMITH AND IS A DEFERRED APPROVAL ITEM. THE CONTRACTOR SHALL SUBMIT THE SLIDE FOOTING PLANS AND STRUCTURAL CALCULATIONS TO THE OWNER, ARCHITECT, HEALTH DEPARTMENT AND BUILDING DEPARTMENT FOR APPROVAL. ALL STEEL COMPONENTS SHALL BE GALVANIZED AND POWDER COATED. PROVIDE APPROVED SIGNAGE, LIFEGUARD PLAN AND ALL OTHER MARYLAND DIVISION OF LABOR AND INDUSTRY AMUSEMENT RIDE SAFETY INSPECTION / MONTGOMERY COUNTY REQUIRED WORK.

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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

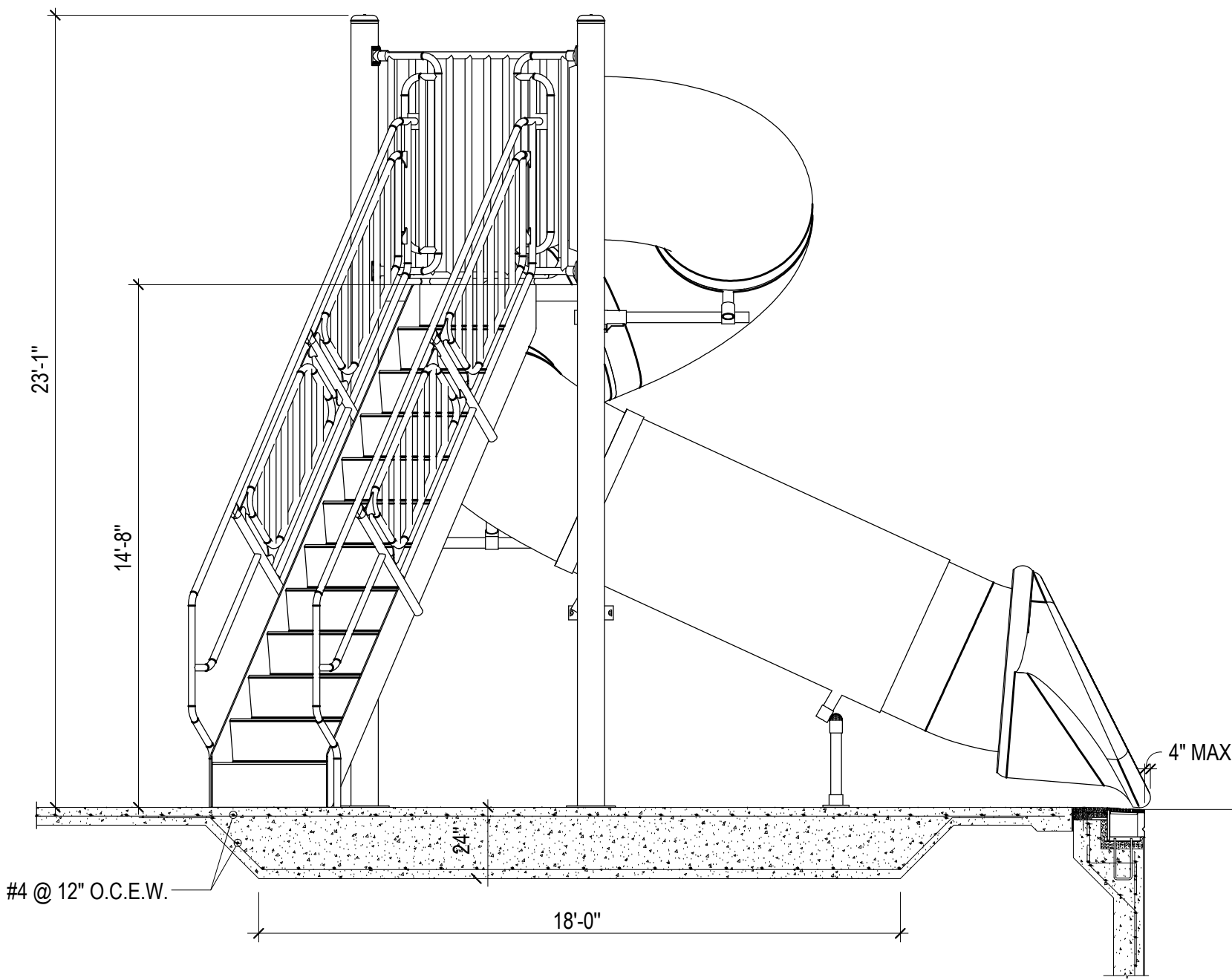
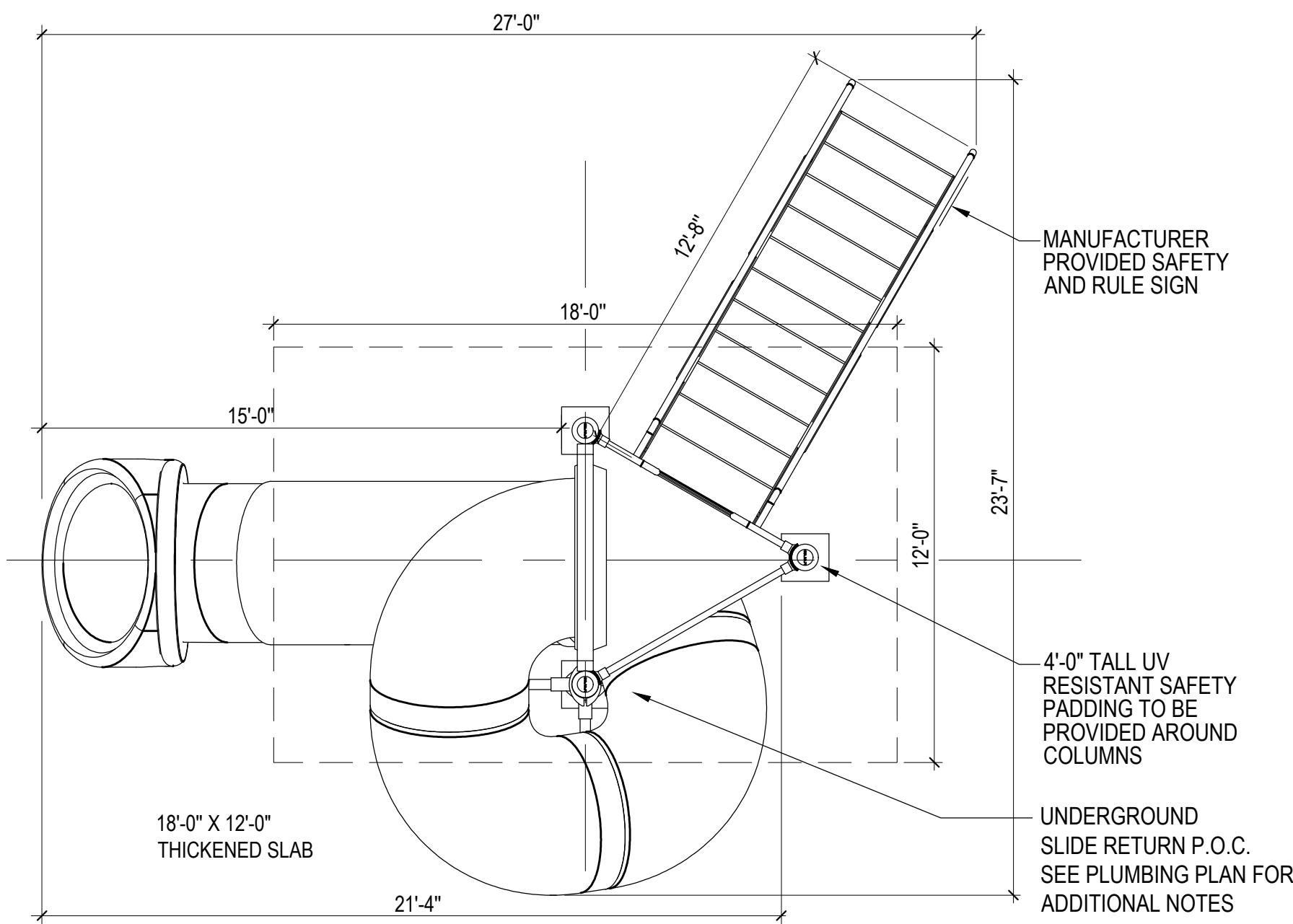
DETAILS

PERMIT SET  
NFC

1	65% CONSTRUCTION DOCUMENT 06/25/2023
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Checked By: AD		
Date: 5/19/2023		

Sheet No. AP-20

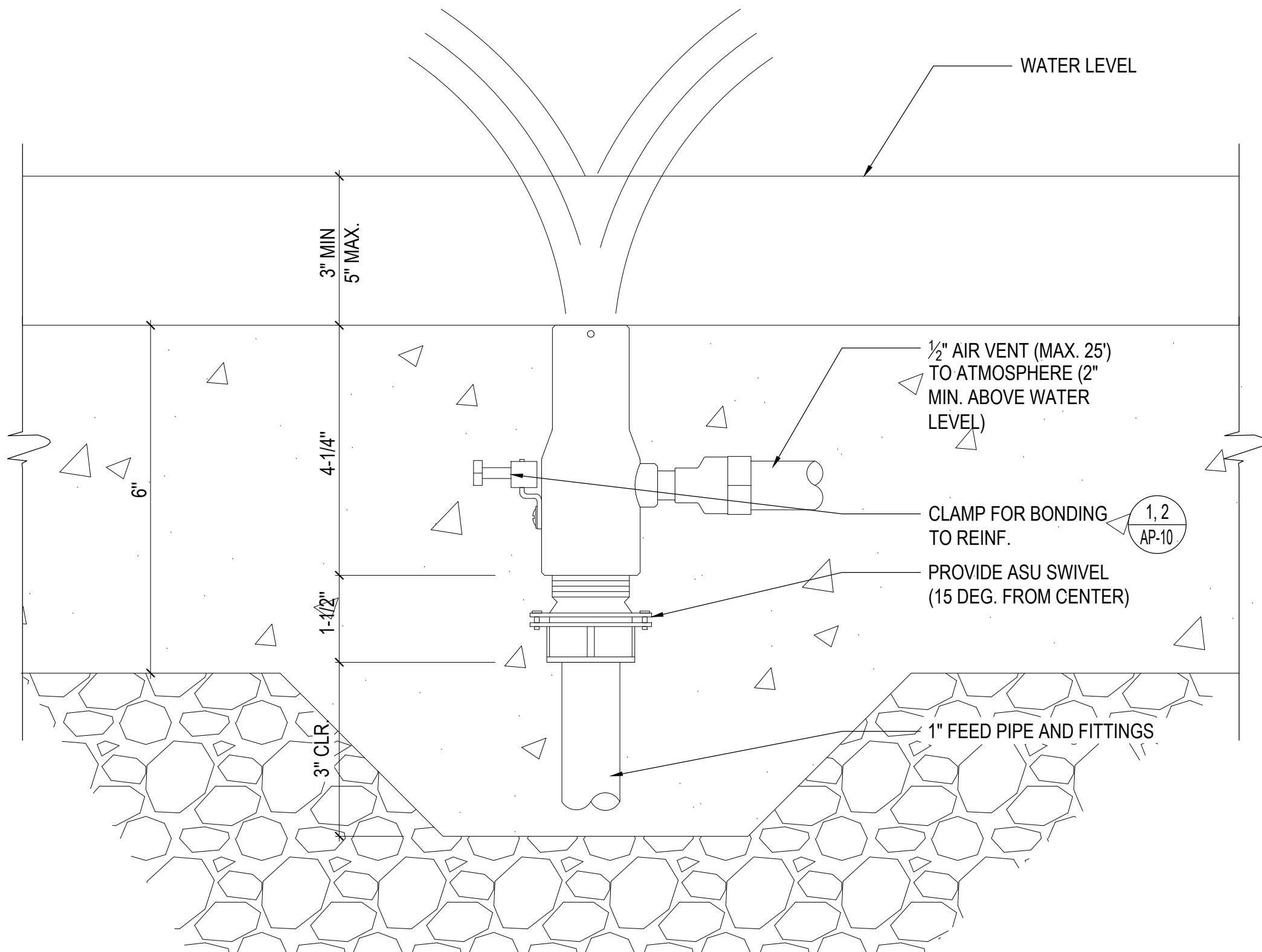
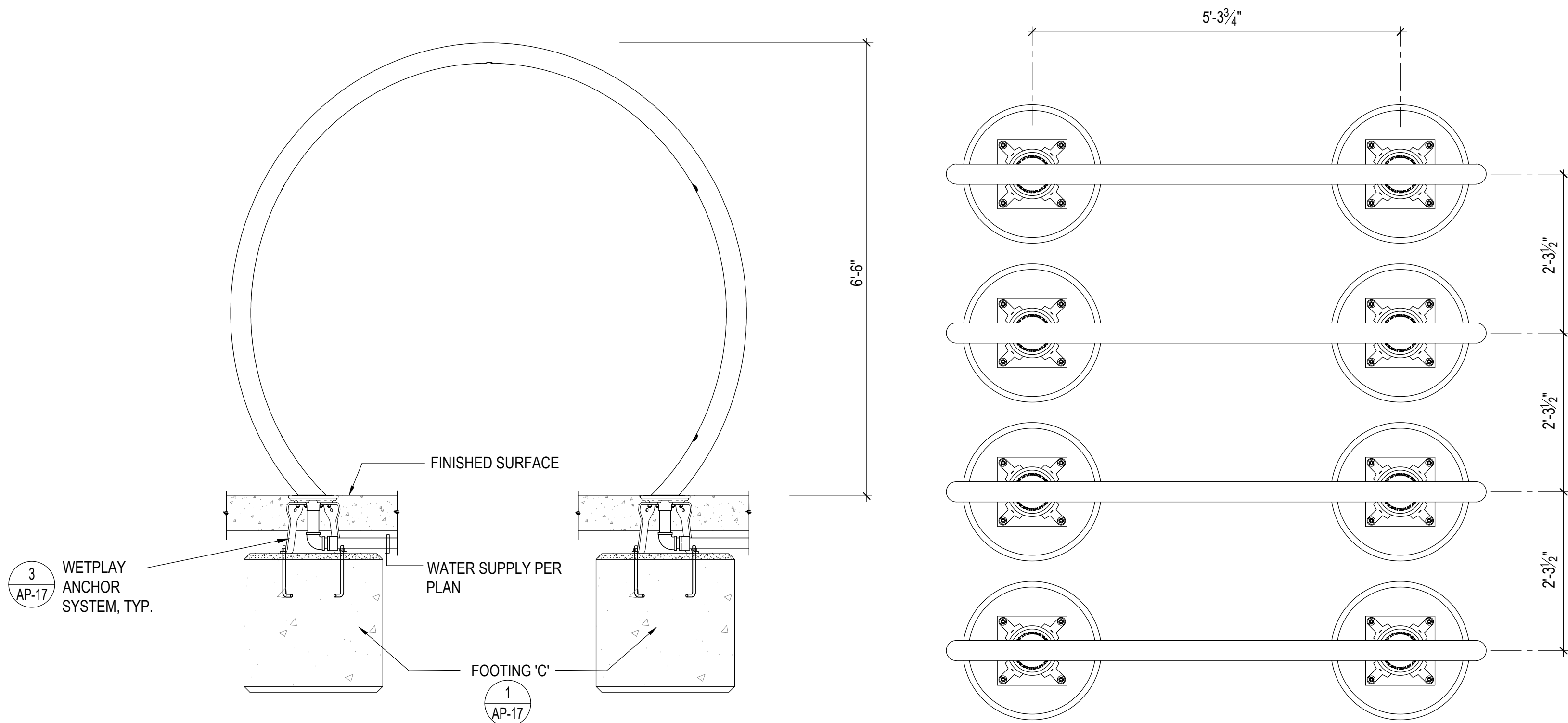


NOTE: SLIDE IS AN  
ADD ALTERNATE

SWIMMING POOL SLIDE (ADD ALTERNATE)

1/4"=1'-0"

1



SPIRAL TUNNEL

1-1/2"=1'-0"

FOAM JET

1-1/2"=1'-0"

3

2



MECHANICAL ANCHORAGE

1. EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB TZ2 (ICC ESR-4266) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.

2. EXPANSION OR WEDGE ANCHORS INTO MASONRY: HILTI KB 3 (ICC ESR-1385) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.

3. FASTENERS SHALL BE STAINLESS STEEL FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.

4. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION.

5. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

6. ANCHORS SHALL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
7. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.

8. APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION OF THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, TORQUE WRENCH, OR CALIBRATED SPRING LOADING DEVICES, ETC.

9. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING.

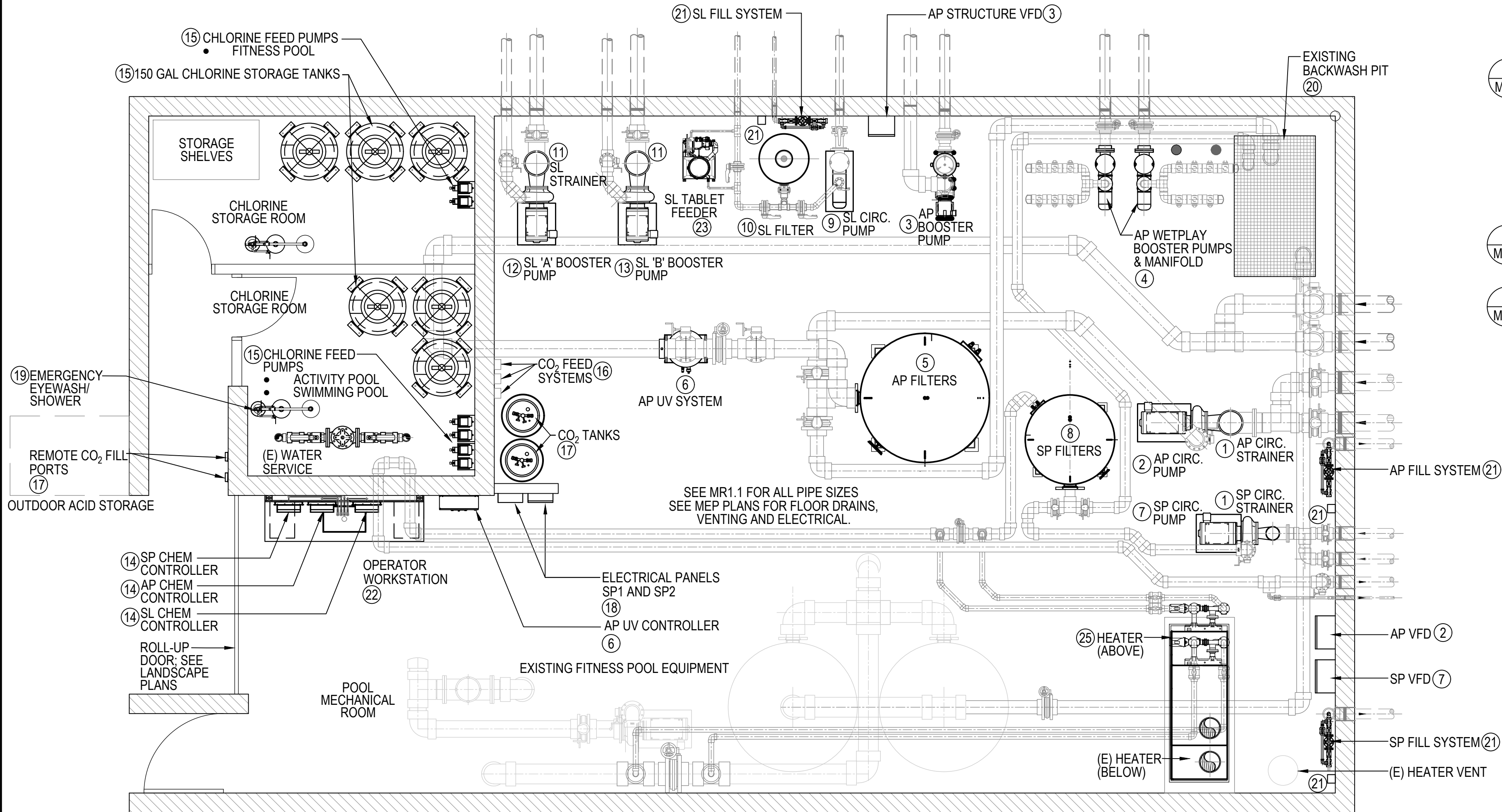
10. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN TABLES BELOW.

11. TEST 50% OF ANCHORS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH THE VALUES SHOWN IN THE TABLE.

A. HYDRAULIC RAM METHOD: APPLY PROOF TEST LOAD WITHOUT REMOVING THE NUT. IF IT IS NOT POSSIBLE TO TEST WITH THE NUT INSTALLED, REPLACE THE NUT WITH A THREADED COUPLER TO THE LOAD. ANCHOR IS ACCEPTABLE IF NO MOVEMENT IS OBSERVED AT THE TEST LOAD. MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.

B. TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE WITH ONE-HALF TURN OF THE NUT.

12. IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE TESTS PASS, THEN RESUME INITIAL TESTING FREQUENCY.



GENERAL NOTES

1. THE PIPING SYSTEM SHALL HAVE DIRECTION OF FLOW ARROWS INDICATED ON THE PIPES, VALVE TAGS AND COLOR CODED PIPE PER MONTGOMERY COUNTY DEPT. OF HEALTH AND HUMAN SERVICES.
2. PUBLIC POOLS SHALL HAVE A FLOW DIAGRAM OF THE POOL'S PIPING SYSTEM WITH OPERATION INSTRUCTIONS.
3. THE FLOW DIAGRAM AND INSTRUCTIONS SHALL BE AVAILABLE ON THE PREMISES AT ALL TIME.
4. ALL PIPING WITHIN THE MECHANICAL ROOM SHALL BE MOUNTED 80" AFF FLOOR. CONTRACTOR TO COORDINATE WITH ALL EQUIPMENT AND UTILITIES.
5. POOL CONTRACTOR TO PROVIDE COMPLETE PIPE HANGER SUPPORT SYSTEM FOR ALL POOL PLUMBING WITHIN MECHANICAL ROOM. PIPE HANGER SYSTEM SHALL BE SUSPENDED FROM ROOF STRUCTURE OR ENGINEERED SUB FRAME. CONTRACTOR TO PROVIDE ENGINEER SEALED SHOP DRAWINGS FOR ARCHITECT AND LOCAL AUTHORITY REVIEW.
6. ALL PLUMBING LINES SHALL BE PROVIDED WITH DRAIN DOWN PORTS AND VALVES AT THE LOWEST POINT OF ALL PLUMBING RETURNS FOR DRAINING AND BLOW DOWN OF PLUMBING DURING WINTERIZATION PROCESS.

EQUIPMENT LIST

- ④  
MR-2

①  
MR-7

①,2  
MR-8
- ② ACTIVITY POOL CIRCULATION PUMP: 'PACO' #60123, 6"x8"x9-1/2" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP, 1,750 RPM, 208V, 3PH; 30HP, RATED AT 1,250 GPM @ 60 FT. TDH; 80% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR APPROVED EQUAL. (425 lbs.) PROVIDE WITH ACUDRIVE #AD300X-2303-N4X VARIABLE SPEED DRIVE 30HP 208V WITH BYPASS AND FUSED DISCONNECT. COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES.
- ④  
MR-2

①  
MR-7

①,2  
MR-8
- ③ ACTIVITY POOL PLAY STRUCTURE BOOSTER PUMP: 'JANDY' #JCP15-3AT-S JCP SERIES; 15HP; 208V 3PH; RATED AT 708 GPM AT 60 FT TDH WITH INTEGRAL STRAINER. ONE (1) TOTAL. (249 lbs.) PROVIDE WITH ACUDRIVE #AD150X-2303-N4X VARIABLE SPEED DRIVE 15HP 208V WITH BYPASS AND FUSED DISCONNECT. ONE (1) TOTAL. COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES.
- ④  
MR-2

①  
MR-7

①,2  
MR-8
- ④ ACTIVITY POOL WET PLAY BOOSTER PUMPS AND MANIFOLDS: 'JANDY' #JCP05-3AT-S JCP SERIES; 5HP; 208V 3PH; RATED AT 268 GPM AT 60 FT TDH WITH INTEGRAL STRAINER. TWO (2) TOTAL. (72 lbs.) PROVIDE WITH ACUDRIVE #AD050X-2303-N4X VARIABLE SPEED DRIVE 5HP 208V WITH BYPASS AND FUSED DISCONNECT. TWO (2) TOTAL. PROVIDE BOOSTER PUMP WITH 4" MANIFOLD. TO WET PLAY FEATURES AS SHOWN PER PLUMBING PLAN. MANIFOLD TO BE PROVIDED W/ INDIVIDUAL ISOLATION BALL VALVES PER FEED LINE, PRESSURE GAUGE AND DRAIN DOWN PORTS FOR WINTERIZATION. ALL FEED LINES TO BE ROUTED AWAY FROM EXISTING FOOTINGS AS NECESSARY.
- ①,3  
MR-2
- ⑤ ACTIVITY POOL FILTERS: 'PADDOCK' #6730-V-3C VERTICAL 3 CELL STAINLESS STEEL FILTER WITH MANUAL FILTER CONTROL HI-RATE PERMANENT MEDIA FILTER WITH 99.6 SQ. FT. OF FILTER AREA RATED AT 1,494 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 10" FACE PIPING, 6" BACKWASH, AND ANCHORAGE. PROVIDE ALL UTILITIES, PIPING, VALVING ETC. (7,400 lbs EACH TANK) PADDOCK, NO KNOWN EQUAL. PROVIDE SIGNET MK-515 FLOSENSOR WITH DIGITAL READ-OUT. ONE (1) SYSTEM TOTAL.
- ④  
MR-2

①  
MR-7

①,2  
MR-8
- ⑥ ACTIVITY POOL ULTRA VIOLET TREATMENT SYSTEM: 'EVOQUA' WAFER UV MODEL WF-225-8-N, VALIDATED AT 1,540 GPM, 8" FLANGED CONNECTION IN-LINE UV WITH TWO (2) LAMPS @ 1,500 WATTS, 208V 1PH. CONTROL UNIT: 208V 1PH, 23"x31"x12" DEEP. (121 lbs.). PROVIDE PIPING BYPASS, VALVING, ETS EZ VALVE STRAINER AND INSTALLATION AND PIPING PER MANUFACTURER'S RECOMMENDATIONS. ONE (1) SYSTEM TOTAL.
- ④  
MR-2

①  
MR-7

①,2  
MR-8
- ⑦ SWIMMING POOL CIRCULATION PUMP: 'PACO' #40129, 4"x5"x12" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP, 1,750 RPM, 208V, 3PH; 15HP, RATED AT 400 GPM @ 60 FT. TDH; 74.55% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR APPROVED EQUAL. (425 lbs.) PROVIDE WITH ACUDRIVE #AD150X-2303-N4X VARIABLE SPEED DRIVE 15HP 208V WITH BYPASS AND FUSED DISCONNECT. COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES.
- ①  
MR-2

②  
MR-3
- ⑧ SWIMMING POOL FILTERS: 'PADDOCK' #6726-V-2C VERTICAL 2 CELL STAINLESS STEEL FILTER WITH MANUAL FILTER CONTROL HI-RATE PERMANENT MEDIA FILTER WITH 31.8 SQ. FT. OF FILTER AREA RATED AT 477 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 6" FACE PIPING, 4" BACKWASH AND ANCHORAGE. PROVIDE ALL UTILITIES, PIPING, VALVING ETC. (7,400 lbs EACH TANK) PADDOCK NO KNOWN EQUAL. PROVIDE SIGNET MK-515 FLOSENSOR WITH DIGITAL READ-OUT. ONE (1) SYSTEM TOTAL.
- ④  
MR-2

①  
MR-7

①,2  
MR-8
- ⑨ SLIDE BALANCE TANK CIRCULATION PUMP: 'JANDY' #SHPF-2.0-3PH SH SERIES; 2HP; 208V 3PH; RATED AT 125 GPM AT 60 FT TDH WITH INTEGRAL STRAINER. ONE (1) TOTAL. PROVIDE WITH DANFOSS VARIABLE SPEED DRIVE 2HP 208V WITH BYPASS AND FUSED DISCONNECT. VARIABLE SPEED DRIVE SHALL BE PROVIDED WITH USER LOCKOUT. VFD TO BE PROGRAMMED WITH NORMAL CIRCULATION FLOW RATE OF 100 GPM. BACKWASH AND NIGHT TIME FLOW RATES SHALL BE SET TO NON-OPERATIONAL HOURS ONLY. 208V 3PH. ONE (1) TOTAL. (58 lbs.)
- ②  
MR-2
- ⑩ SLIDE BALANCE TANK FILTER: 'PENTAIR' TRITON #TR-140C-3 HI-RATE PERMANENT MEDIA FILTERS WITH 7.06 SQ. FT. OF FILTER AREA RATED AT 105 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 3" MANIFOLD, 3" FLANGES AND VALVED TOGETHER, 3" BACKWASH, SEISMIC ANCHORAGE. PROVIDE ALL UTILITIES, PIPING, VALVING, ETC. ONE (1) TANK TOTAL. (1,007LBS.)
- ④  
MR-2

①  
MR-7

①,2  
MR-8
- ⑪ SLIDE BOOSTER PUMP STRAINERS: 'MER-MADE' F.O. SERIES FRP REDUCING BASKET STRAINER: ONE (1) 8"x5" STANDARD AND ONE (1) 10"x6" STANDARD. EACH PROVIDED WITH ACRYLIC LID AND TWO (2) STAINLESS STEEL STRAINERS EA. (150lbs.)
- ④  
MR-2

①  
MR-7

①,2  
MR-8
- ⑫ SLIDE 'A' BOOSTER PUMP: 'PACO' #50123, 6"x5" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP, 1,187 RPM, 208V, 3PH, 15HP, RATED AT 1,000 GPM @ 45 FT. TDH; 80.24% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR APPROVED EQUAL. (600 lbs.) INTERCONNECT WITH CIRCULATION PUMP SO IT CAN ONLY OPERATE WHEN CIRCULATION PUMP IS ON.
- ④  
MR-2

①  
MR-7

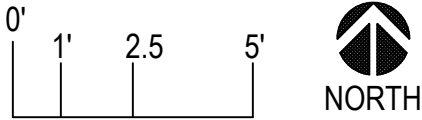
①,2  
MR-8
- ⑬ SLIDE 'B' BOOSTER PUMP: 'PACO' #4012A, 4"x5"x12" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP, 1,187 RPM, 208V, 3PH, 7.5HP, RATED AT 500 GPM @ 45 FT. TDH; 80.76% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR APPROVED EQUAL. (600 lbs.) INTERCONNECT WITH CIRCULATION PUMP SO IT CAN ONLY OPERATE WHEN CIRCULATION PUMP IS ON.
- ①,3  
MR-7
- ⑭ WATER CHEMISTRY CONTROLLER(S): (NO KNOWN EQUAL) POOL CONTRACTOR TO PROVIDE INTERLOCKS WITH ALL POOL EQUIPMENT AS SHOWN WITHIN THE DETAIL. CONTRACTOR TO COORDINATE WITH CHEMICAL CONTROLLER MANUFACTURER AND PROVIDE ADDITIONAL RELAYS AS NECESSARY.
  - ACTIVITY POOL: CAT 4000 COMPLETE SYSTEM CONTROL PACKAGE.
  - SWIMMING POOL: CAT 4000 W/ COMPLETE SYSTEM CONTROL PACKAGE.
  - SLIDE BALANCE TANK: CAT 4000 W/ COMPLETE SYSTEM CONTROL PACKAGE.
- ①,3  
MR-3
- ⑮ CHLORINE STORAGE/FEED SYSTEM: PROVIDE 'CHEM-TAINER' 150 GALLON #TC3448C; DUAL STORAGE/CONTAINMENT TANKS WITH LIDS, OPERATING WEIGHT = (1,250lbs). COMPLIES WITH FED. REG #40CFR-264-193. SIX (6) TOTAL. FEED PUMP(S) SHALL BE AS LISTED BELOW, ALL FEED PUMPS SHALL BE PROVIDED WITH FRP SHELF BRACKETS AND HARD PIPED TO POINT OF INJECTION.
  - ACTIVITY POOL: 'BLUE AND WHITE' A1N20X-7T 91GPD @ 100PSI, TWO (2) TOTAL.
  - SWIMMING POOL: 'BLUE AND WHITE' A1N10X-7T 52GPD @ 100PSI, TWO (2) TOTAL.
  - FITNESS POOL METERING PUMPS: (EXISTING) TO BE RELOCATED TO NEW STORAGE ROOM AND PLUMBED TO EXISTING INJECTION POINT
- ①,3  
MR-6
- ⑯ CARBON DIOXIDE FEED SYSTEMS: CO2 FLOW CONTROL UNITS WITH FLOW ADJUSTMENTS FROM 0-200 SCFH WITH PRESSURE REGULATOR AND GAUGES FOR UP TO 850 PSI NOMINAL CYLINDER PRESSURE AND 40 PSI OUTPUT TO CO2 FEED UNIT FEED FROM STORAGE TANKS. THREE (3) FEED SYSTEMS FURNISHED BY GAS SERVICE PROVIDER. CONTRACTOR TO CONNECT TO EACH POOL SYSTEM PER MANUFACTURER'S REQUIREMENTS. PROVIDE WITHIN MECHANICAL ROOM HARD WIRED 'ANALOX' #API KIT CO2 DETECTOR WITH AUDIBLE AND VISUAL ALARMS, UL 1971 STANDARD LISTED, ONE (1) TOTAL.
- ①  
MR-7

②  
MR-6

④,5  
MR-8
- ⑰ CARBON DIOXIDE STORAGE SYSTEM: TWO (2) 750lb. STORAGE TANKS WITH REMOTE FILL PORTS (OPERATING WEIGHT = 680 LIQUID lbs. EA.) TANKS TO BE FURNISHED BY GAS SERVICE PROVIDER.
- ④  
MR-6
- ⑱ EYEWASH/SHOWER: HAWS MODEL #8309WC BARRIER FREE COMBINATION SHOWER AND EYE/FACE WASH WITH CORROSION RESISTANT PROTECTION. SEE MEP SHEETS FOR SUPPLY PIPING. TWO (2) TOTAL.
- ③  
MR-8
- ⑳ BACKWASH SUMP: EXISTING BACKWASH PIT WITH P-TRAP OUTLET TO STORM.
- ③  
MR-9
- ㉑ AUTO FILL SYSTEM(S): AQUATIC CONTROLLER TECHNOLOGIES' ELS-810 FILL SYSTEM TO INCLUDE 2" BRONZE BODY SOLENOID CONTROL VALVE, BRONZE TRIM, FLANGED GLOBE PATTERN, 24V SOLENOID WIRING SHALL BE WIRED TO WATER LEVEL CONTROLLER. PROVIDE 6" AIR GAP AT FILL POINT. THREE (3) TOTAL. CONNECTED TO SOURCE DOWN STREAM OF REDUCED PRESSURE BACKFLOW PREVENTOR (BY OTHERS).
- ③  
MR-9
- ㉒ POOL OPERATOR WORKSTATION DESK: 'TOTAL LAB SOLUTIONS' EPOXY COUNTERTOP WITH DROP-IN SINK AND TWO (2) END CABINETS. FURNISH WITH WALL MOUNTED FIVE (5) FAUCETS 'BROEN BOSS' OR APPROVED EQUAL. SEE MEP PLANS FOR WATER SUPPLY PIPING.
- ③  
MR-9
- ㉓ SLIDE BALANCE TANK TABLET CHLORINE FEEDER / STORAGE: 'PPG' ACCU-TAB POWERBASE CHLORINATION UNIT MODEL 1030 WITH 67.2lbs/DAY OUTPUT, 30 lb. STORAGE. COMPLETE WITH PIPING, VALVING, VENTURI INJECTION AND 3/4 HP BOOSTER PUMP. NSF 50 CERTIFIED. ONE (1) TOTAL.
- ③  
MR-9
- ㉔ SWIMMING POOL HEATER: ADD ALTERNATE, 'LOCHINVAR' #CPN1442, 1,440,000 BTU INPUT, 2" GAS CONNECTION, 2-1/2" FLANGED WATER INFLUENT/EFFLUENT CONNECTIONS AND 12" INTAKE & EXHAUST WITH CATEGORY IV DOUBLE WALL VENTING WITH DRAIN TEES. ONE (1) TOTAL (1,042lbs.) AS PART OF THE ADD ALTERNATE THE CONTRACTOR SHALL PROVIDE ENGINEERED SHOP DRAWINGS FOR THE PERMITTING AND INSTALLATION OF THE NEW HEATER AND MODIFICATION OF THE EXISTING GAS AND VENTING SYSTEM WHICH SHALL INCLUDE:
  - LOCHINVAR STACKING SUPPORT RACK SYSTEM, 4" REINFORCED CONCRETE EQUIPMENT PAD AND ANCHORS. RACK TO BE POSITIONED OVER EXISTING POOL HEATER. CONTRACTOR MAY REPOSITION HEATERS AS NECESSARY.
  - ALL NEW NECESSARY PLUMBING FITTINGS VALVES, TEMPERATURE SENSORS, THERMOMETERS, PIPE HANGERS, ETC. FOR CONNECTION OF THE NEW POOL HEATER TO THE NEW SWIMMING POOL CIRCULATION PLUMBING.
  - THE MODIFICATIONS REQUIRED TO TIE THE NEW HEATER EXHAUST VENTING TO THE EXISTING ROOF VENT SYSTEM.
  - THE MODIFICATIONS REQUIRED TO TIE THE NEW HEATER INTAKE VENTING TO THE EXISTING ROOF INTAKE SYSTEM OR PROPOSE ALTERNATE INTAKE SYSTEM.
  - THE MODIFICATIONS REQUIRED TO THE EXISTING GAS SUPPLY PLUMBING AND REGULATOR SYSTEM WITHIN THE MECHANICAL ROOM TO PROVIDE THE NECESSARY GAS VOLUME TO EACH HEATER. THE GAS LINE MODIFICATIONS WILL NOT BE REQUIRED TO ALLOW BOTH HEATERS TO BE USED SIMULTANEOUSLY.
  - CONDUIT, FEEDER LINES, DISCONNECTS AND INTERLOCK CONNECTIONS TO THE CHEMICAL CONTROLLER AND ELECTRICAL PANEL PER THE MANUFACTURERS INSTALLATION REQUIREMENTS.
  - PIPE HANGERS AND SUPPORT SYSTEMS FOR RELATED POOL PLUMBING AND ALL UTILITIES
  - ALL MODIFICATIONS REQUIRED BY THE MANUFACTURER FOR A FULLY FUNCTIONING HEATING SYSTEM WITH START-UP AND TRAINING PER THE MANUFACTURERS GUIDELINES.

WEDGE OR EXPANSION ANCHOR EMBEDMENT DEPTH AND TEST LOAD

SIZE	HILTI KB TZ 2 (SS) ANCHORS IN CONCRETE (ESR-4266)		KB TZ 2 (SS) ANCHORS IN CMU (ESR-4561)	
	MIN. EMBED (heff)	TORQUE LOAD (FT-LBS)	MIN. EMBED (heff)	TORQUE LOAD (FT-LBS)
1/4" DIA.	1-1/2"	6	1-1/2"	6
3/8" DIA.	2-1/2"	30	2-1/2"	15
1/2" DIA.	3-1/4"	40	3-1/4"	25
7/8" DIA.	4"	60	4"	35
3/4" DIA.	4-3/4"	125	4-3/4"	50

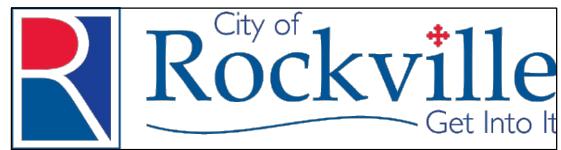


MECHANICAL ROOM LAYOUT 1/4" = 1'-0"

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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

MECHANICAL ROOM  
LAYOUT

PERMIT SET  
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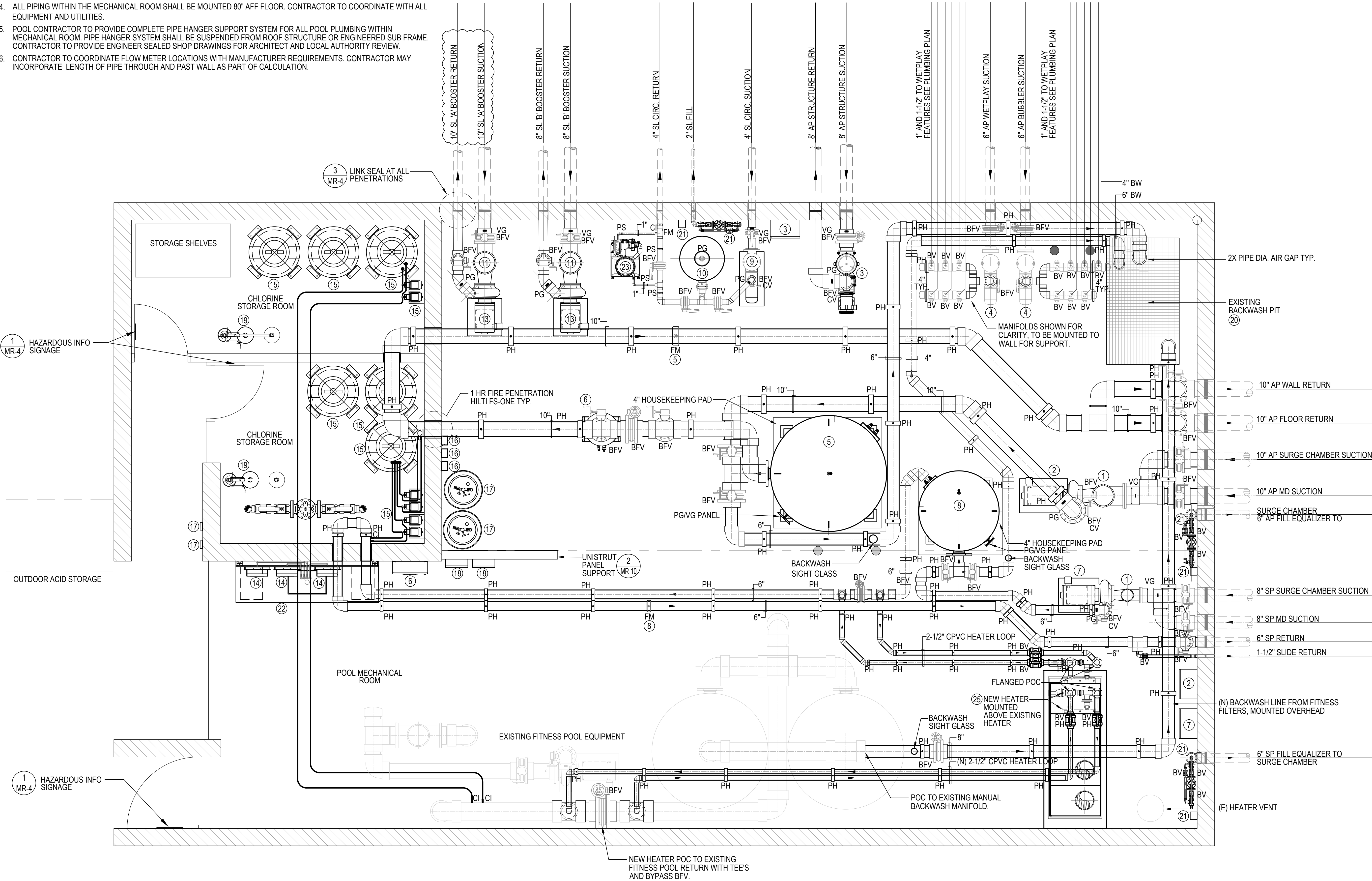
MR-1

BID SET 02/23/2024



GENERAL NOTES

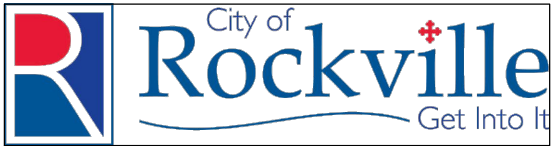
1. THE PIPING SYSTEM SHALL HAVE DIRECTION OF FLOW ARROWS INDICATED ON THE PIPES AND COLOR CODED PER HEALTH DEPT. GUIDELINES.
2. PUBLIC POOLS SHALL HAVE A FLOW DIAGRAM OF THE POOL'S PIPING SYSTEM WITH OPERATION INSTRUCTIONS.
3. THE FLOW DIAGRAM AND INSTRUCTIONS SHALL BE AVAILABLE ON THE PREMISES AT ALL TIME
4. ALL PIPING WITHIN THE MECHANICAL ROOM SHALL BE MOUNTED 80" AFF FLOOR. CONTRACTOR TO COORDINATE WITH ALL EQUIPMENT AND UTILITIES.
5. POOL CONTRACTOR TO PROVIDE COMPLETE PIPE HANGER SUPPORT SYSTEM FOR ALL POOL PLUMBING WITHIN MECHANICAL ROOM. PIPE HANGER SYSTEM SHALL BE SUSPENDED FROM ROOF STRUCTURE OR ENGINEERED SUB FRAME. CONTRACTOR TO PROVIDE ENGINEER SEALED SHOP DRAWINGS FOR ARCHITECT AND LOCAL AUTHORITY REVIEW.
6. CONTRACTOR TO COORDINATE FLOW METER LOCATIONS WITH MANUFACTURER REQUIREMENTS. CONTRACTOR MAY INCORPORATE LENGTH OF PIPE THROUGH AND PAST WALL AS PART OF CALCULATION.



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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

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CITY OF ROCKVILLE, MARYLAND  
MECHANICAL ROOM  
PLUMBING LAYOUT

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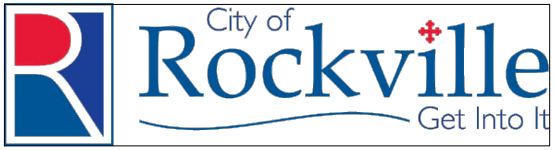
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DEPARTMENT OF  
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OUTDOOR  
RECREATION POOL  
RENOVATIONS

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CITY OF ROCKVILLE, MARYLAND

DETAILS

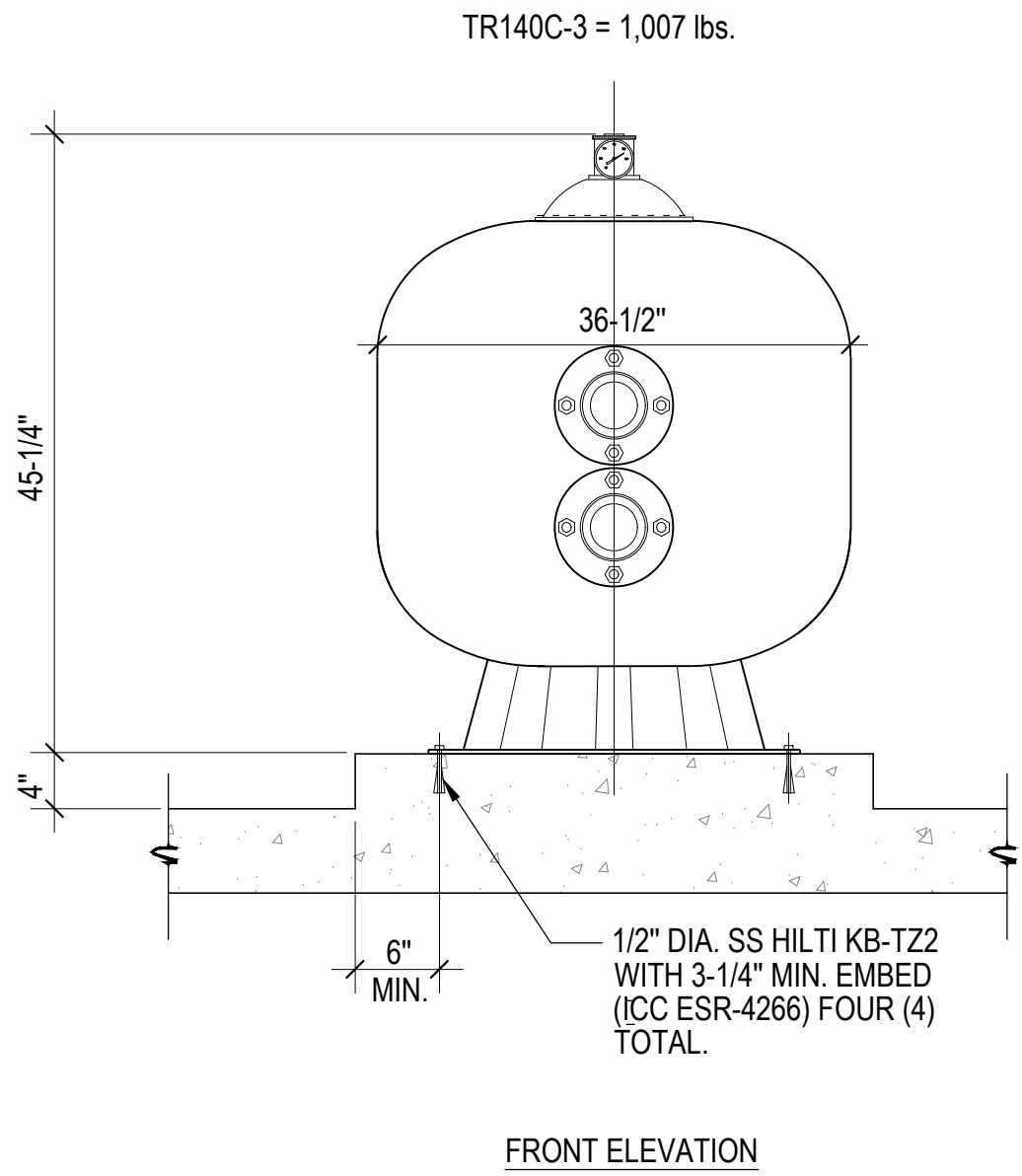
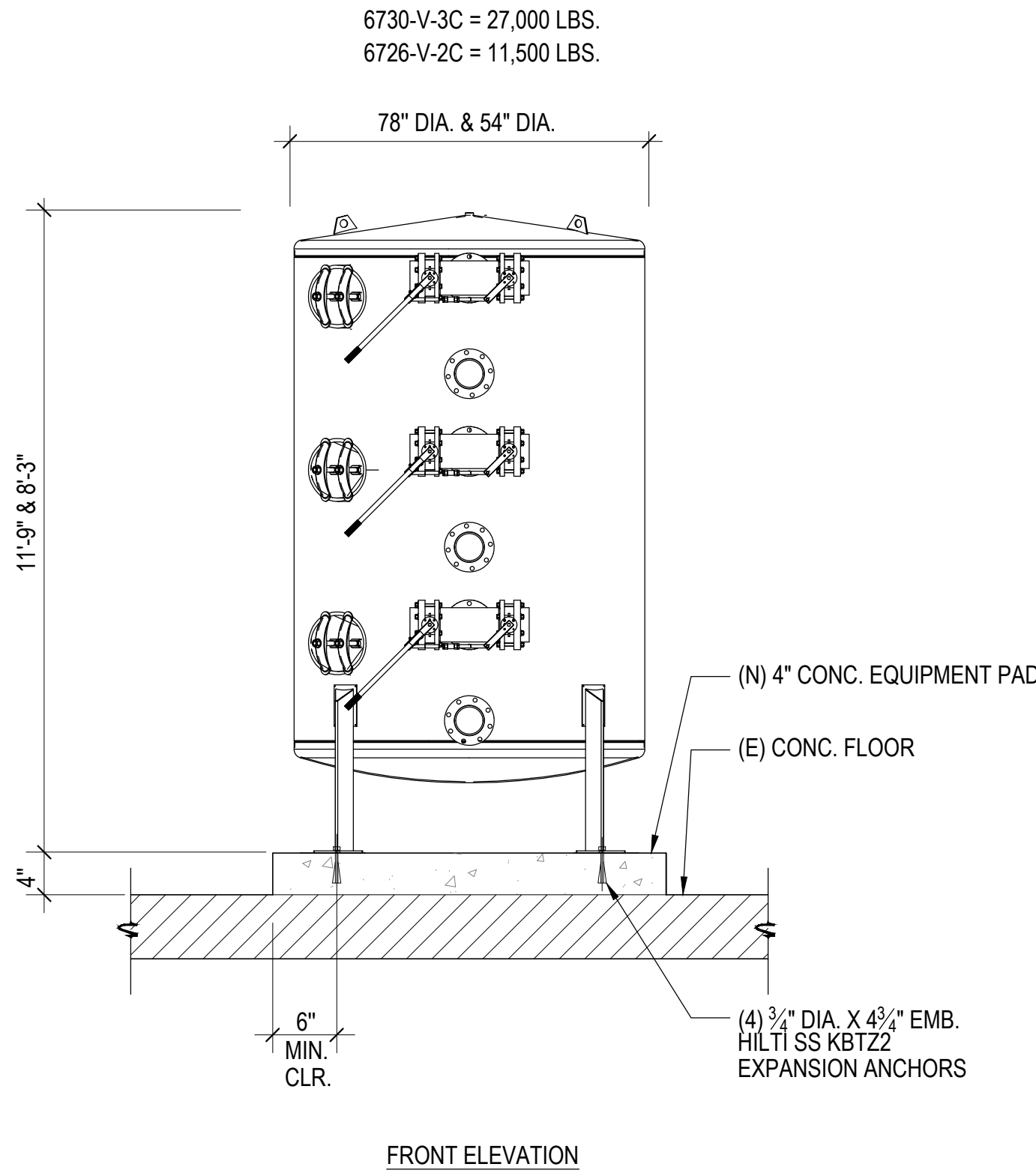
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Sheet No. MR-2



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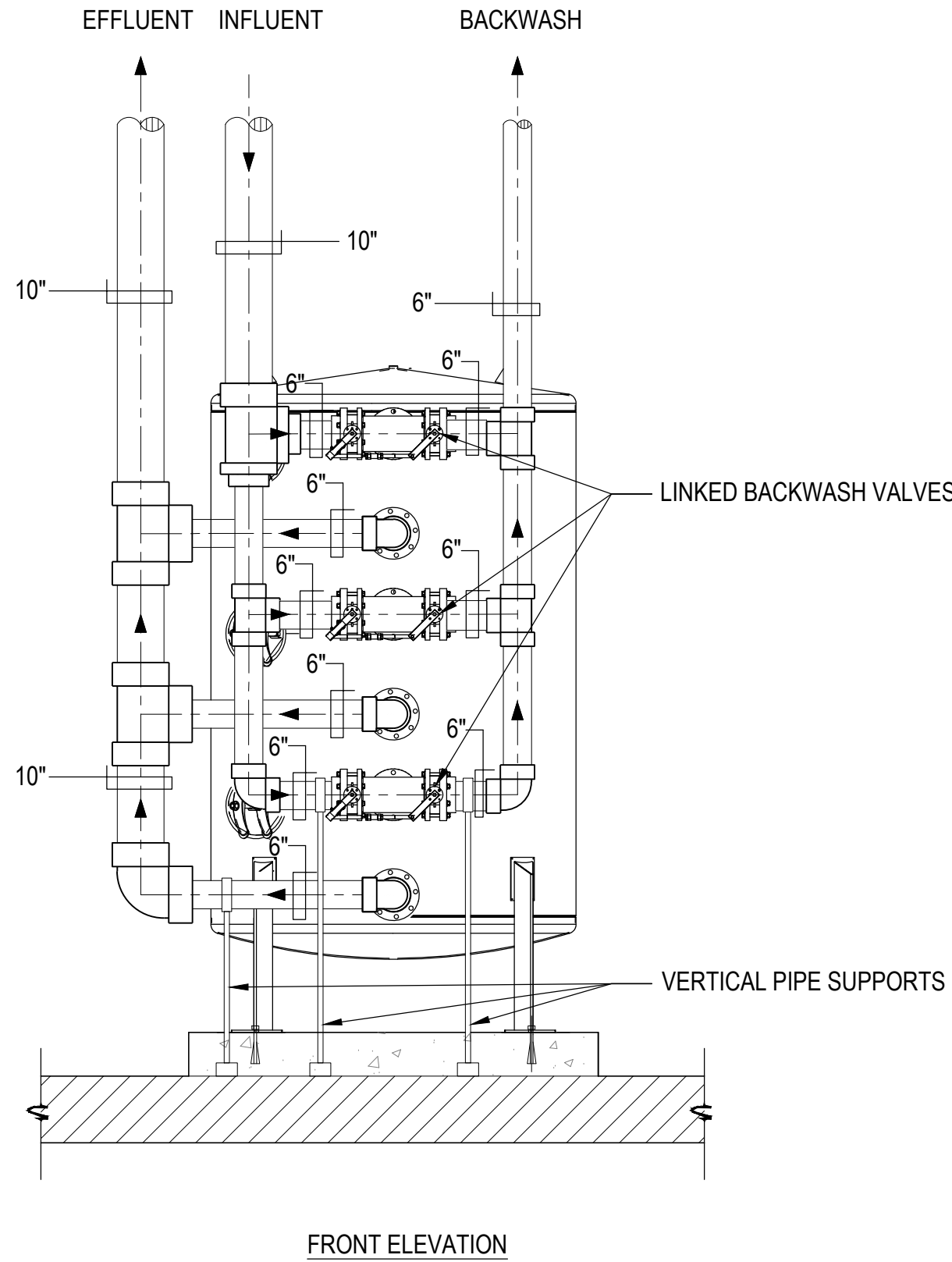
FILTER ANCHORAGE

NO SCALE

2

FILTER ANCHORAGE

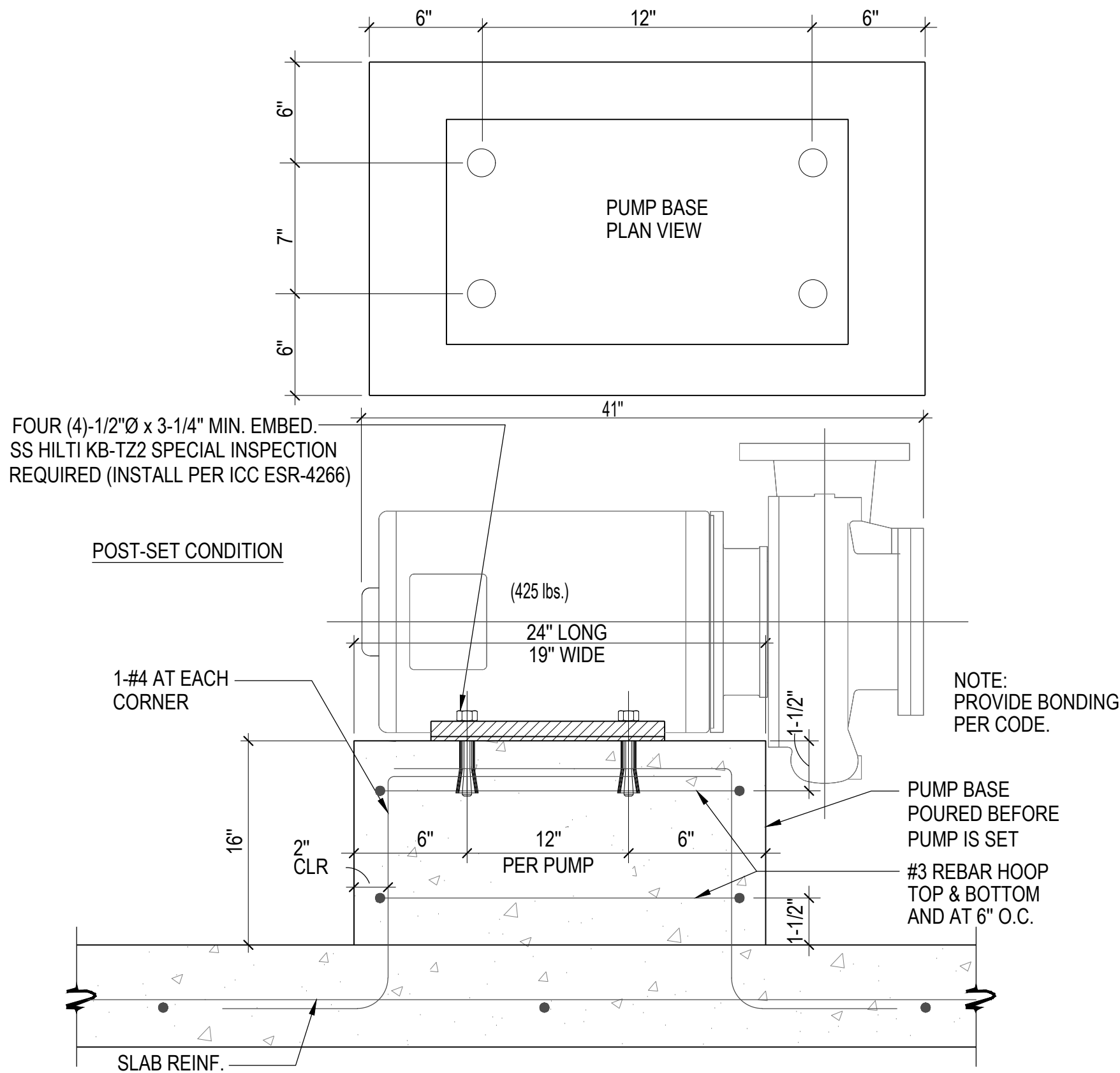
NO SCALE



3

3 CELL FACE PIPE SCHEMATIC

NO SCALE

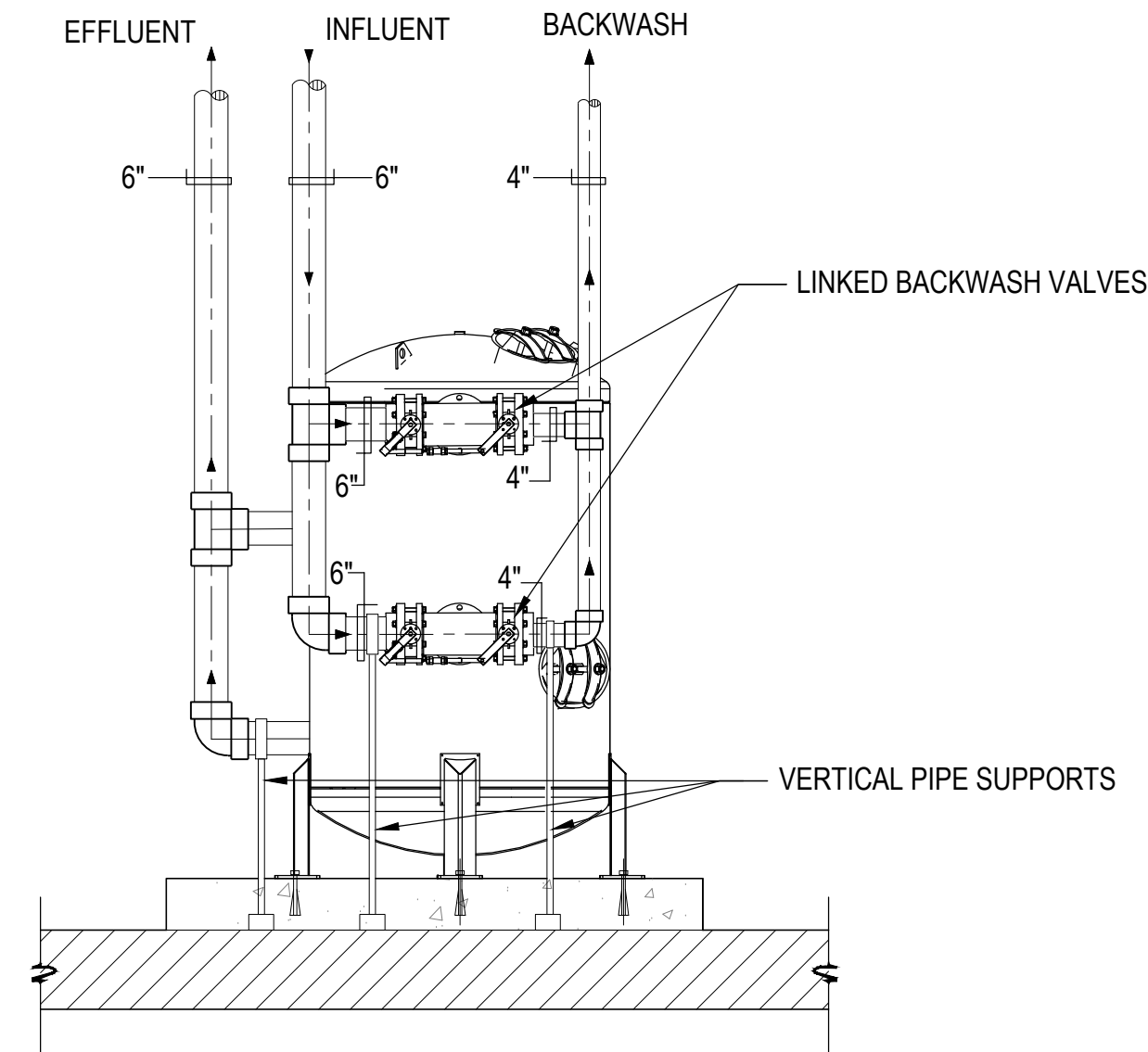
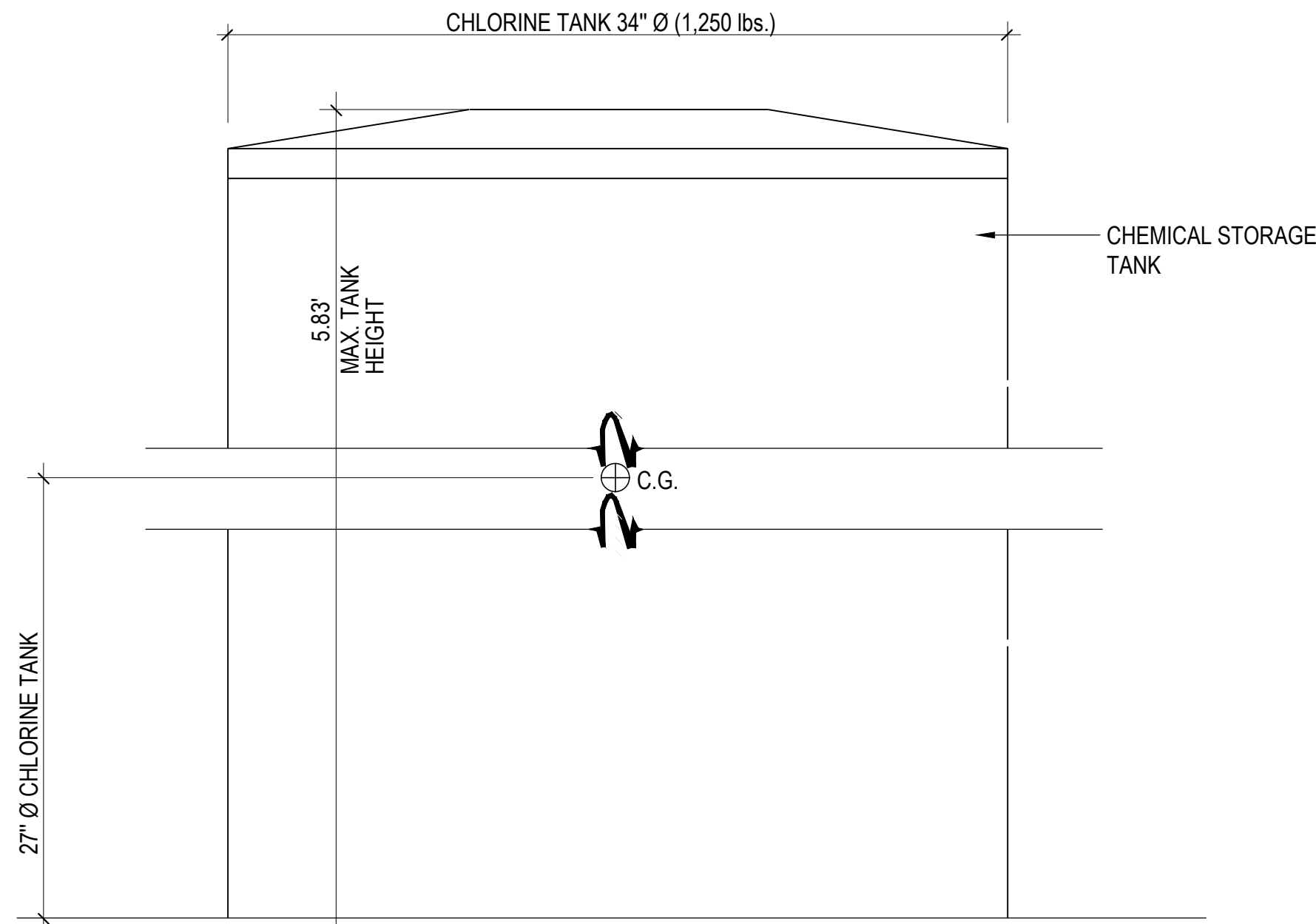


4

PUMP ANCHORAGE

NO SCALE



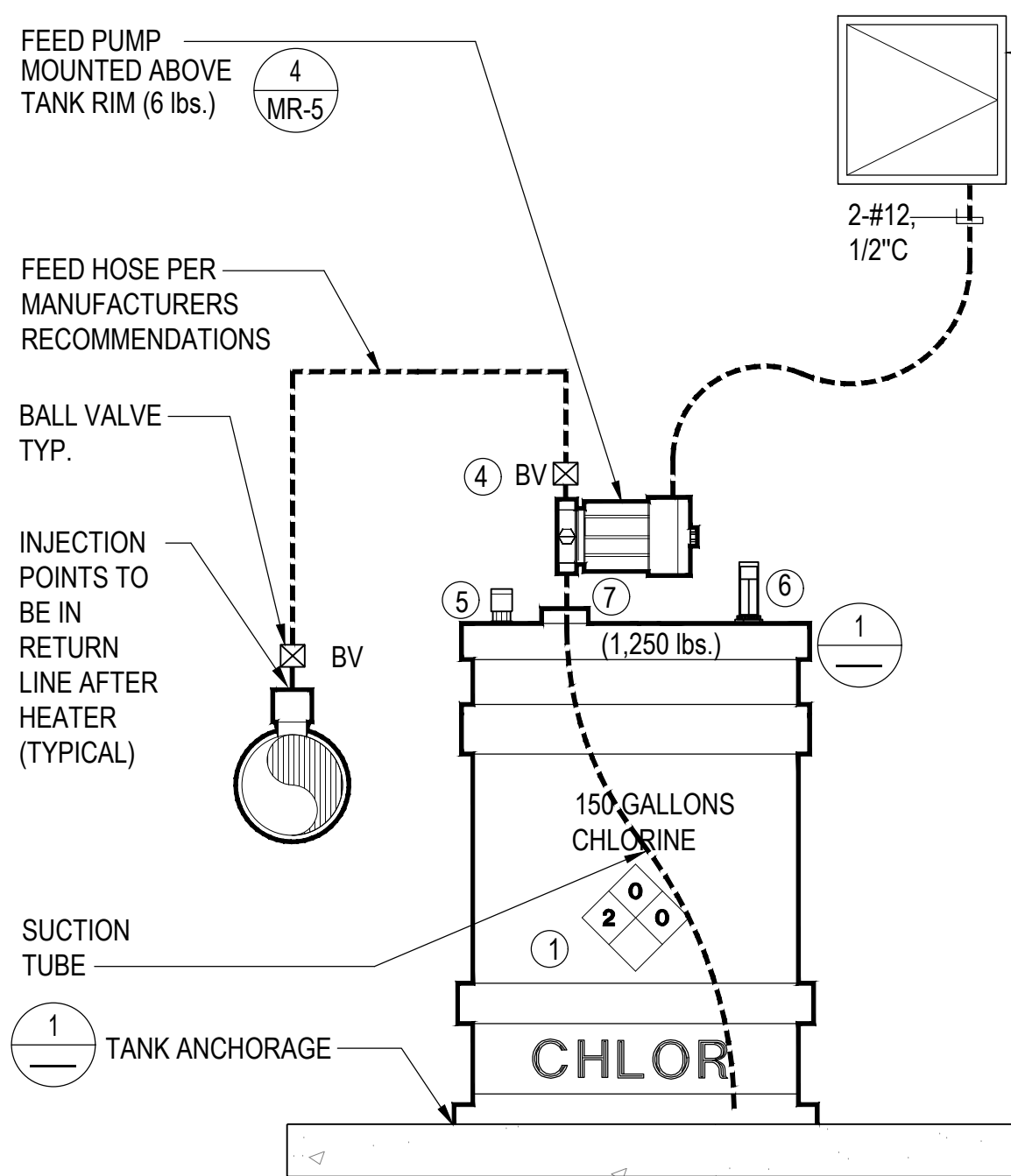


1 CHEMICAL TANK ANCHOR (TYP. 3 TANKS)

NO SCALE

2 2 CELL FACE PIPE SCHEMATIC

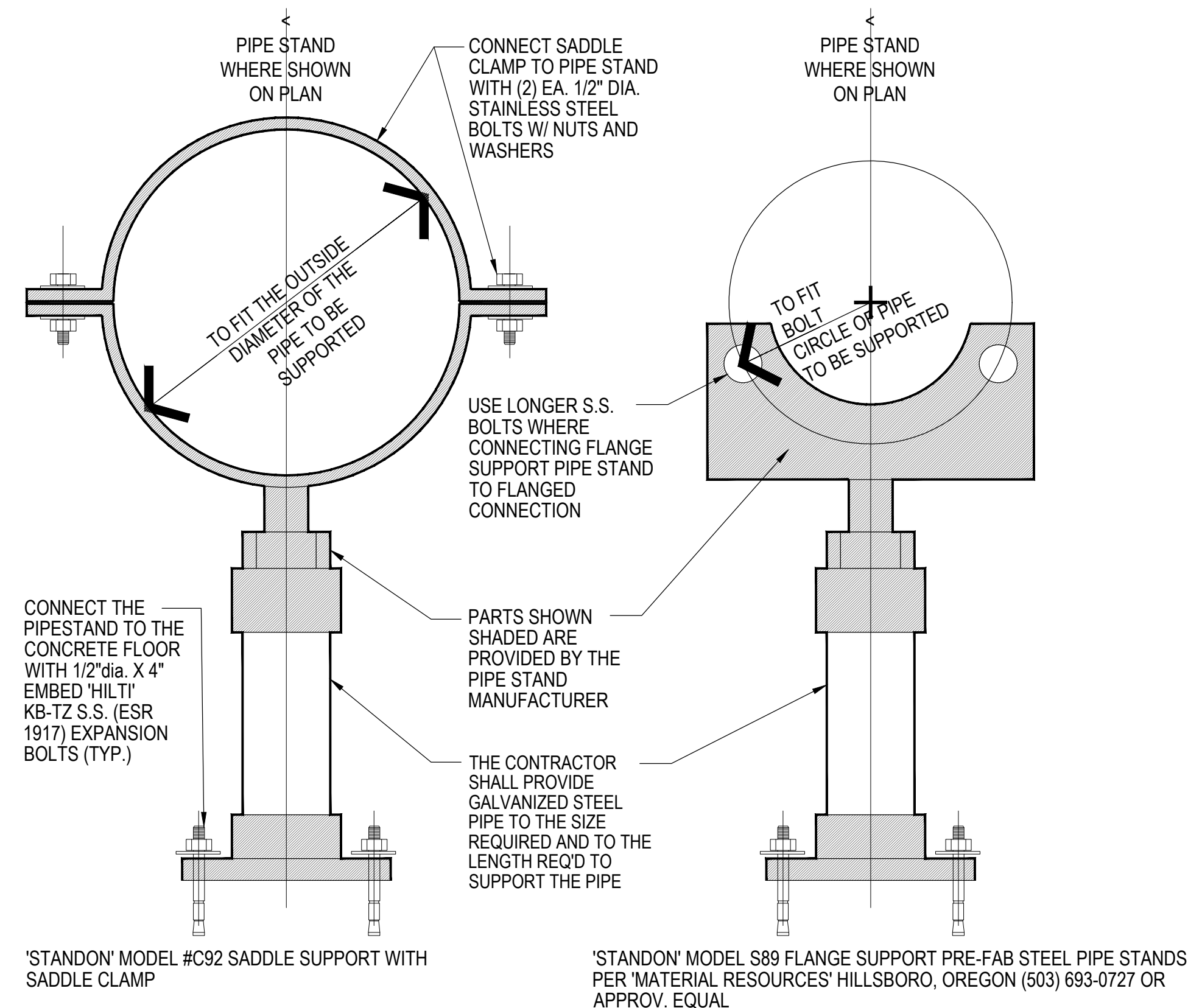
NO SCALE



- NOTES:
- 1 ABOVEGROUND STATIONARY TANKS USED FOR THE STORAGE OF HAZARDOUS MATERIALS SHALL BE PLACARDED WITH HAZARD IDENTIFICATION SIGNS AS SPECIFIED IN C.F.C. 5003.5 AND NFPA 704 FOR THE SPECIFIC MATERIAL CONTAINED. SIGNS SHALL BE DURABLE. THE SIZE, COLOR AND LETTERING SHALL BE IN ACCORDANCE WITH NATIONALLY RECOGNIZED STANDARDS.
  - 2 PIPING, TUBING, VALVES AND RELATED COMPONENTS SHALL BE BRACED.
  - 3 PIPING AND TUBING SHALL BE IDENTIFIED TO INDICATE THE MATERIAL CONVEYED.
  - 4 EMERGENCY SHUTOFF VALVES SHALL BE IDENTIFIED AND THE LOCATION SHALL BE CLEARLY VISIBLE AND INDICATED BY MEANS OF A SIGN.
  - 5 PROVIDE 2" CAMLOCK FILL PORT PER VENDOR'S REQUIREMENTS.
  - 6 'AT-A-GLANCE' CHEMICAL GAUGE BY KRUEGER SENTRY GAUGE CO. INC.
  - 7 PROVIDE VAPORLOC CAP @ TUBING ENTRANCE
  - 8 PIPING, VALVING AND FITTINGS SHALL COMPLY WITH CFC 2703.2.2

3 SODIUM HYPOCHLORITE FEED SCHEMATIC

NO SCALE



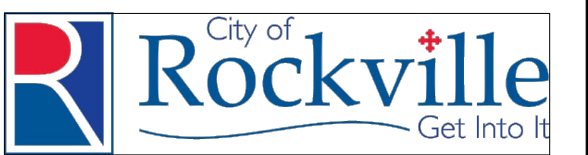
4 PIPE FLOOR STAND SUPPORT

NO SCALE

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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

DETAILS

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Revisions		
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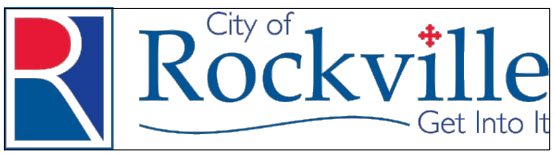
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DEPARTMENT OF  
RECREATION AND PARKS

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RENOVATIONS

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Revisions		

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Sheet No. MR-4

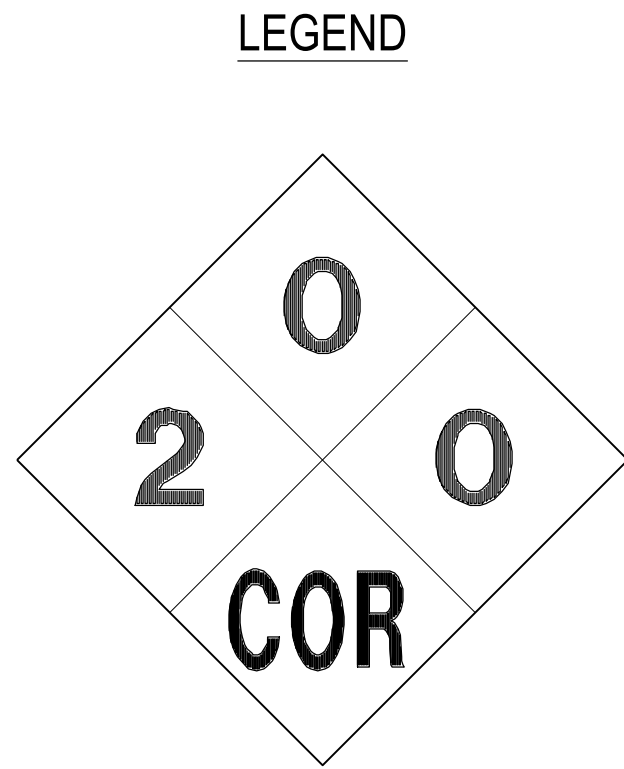
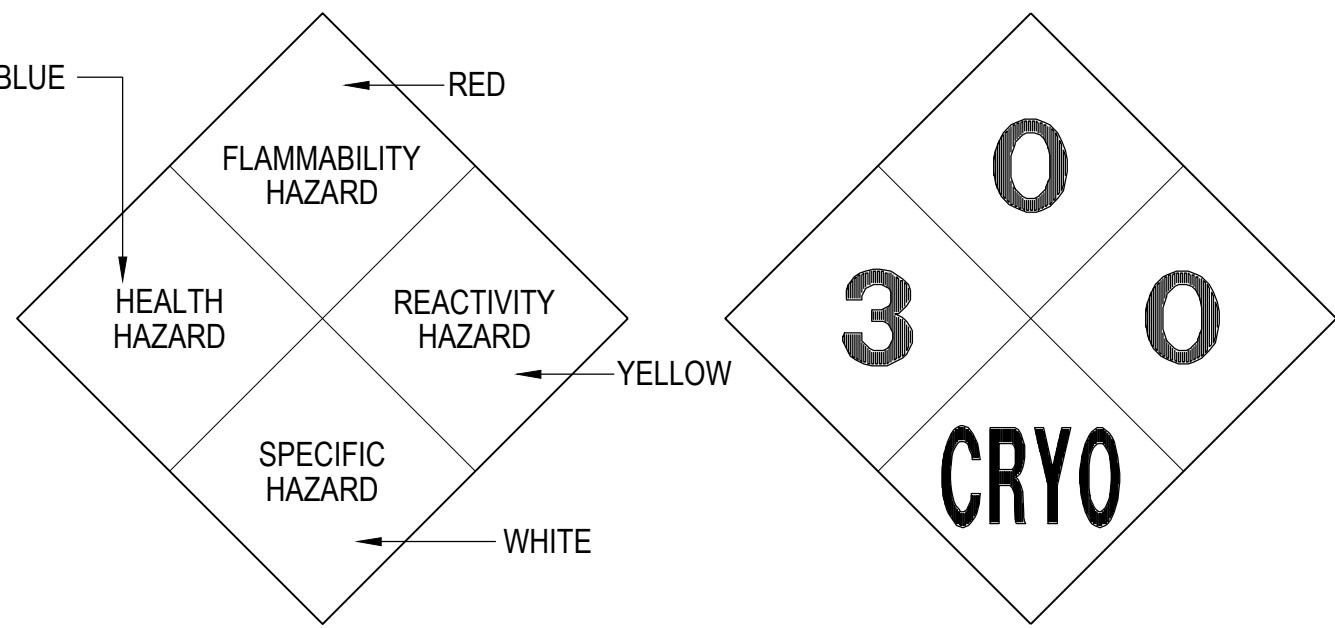
CHEMICAL CLASSIFICATION TABLE										
COMMON NAME	CHEMICAL NAME	% COMP.	CAS #	FORM	QUANT. STORED (NOT USED)	QUANT. IN USE (USE-CLOSED) (PER CONTROL AREA)	MAXIMUM ALLOWABLE QUANTITY (PER CONTROL AREA)	LOCATION (STORAGE & USE)	HAZ. CLASSES	JUSTIFICATION
SODIUM HYPOCHLORITE	SODIUM HYPOCHLORITE	12.5%	7681-52-9	LIQUID	0 GAL.	500 GAL.	500 GAL.	CHEM. ROOM	CORROSIVE LIQUID	MSDS
CARBON DIOXIDE	CARBON DIOXIDE	100%	124-39-9	LIQUID	0 lbs.	600 lbs.	686 lbs.	CHEM. ROOM	CRYOGENIC	MSDS

QUANTITIES OF CHEMICALS DO NOT EXCEED THE QUANTITIES LISTED IN IBC TABLES 307.1 (1) AND 307.1 (2).  
FOR CARBON DIOXIDE GAS SEE TABLE 1.12.8(b) OF THE NFPA-1, 6,000 FT<sup>3</sup> ALLOWABLE OR 686 lbs. STORAGE PER CONTAINED AREA  
PROVIDE HARD WIRED CO<sub>2</sub> DETECTOR 'ANALOX SENSOR TECHNOLOGY' MODEL #AP1 KIT SENSOR AND STROBE UNITS 120V HARD WIRED W/ STROBE LIGHT AND AUDIBLE ALARM. SENSOR MOUNTED 18 INCHES A.F.F. AND ALARM LEVEL BETWEEN 70-76 INCHES AND WITHIN VISIBLE EYESIGHT OF DOOR. TO BE SET TO DETECT CO2 GAS IN LEVELS IN EXCESS OF THE PEL. PROVIDE IN EACH ROOM CONTAINING CO<sub>2</sub>.

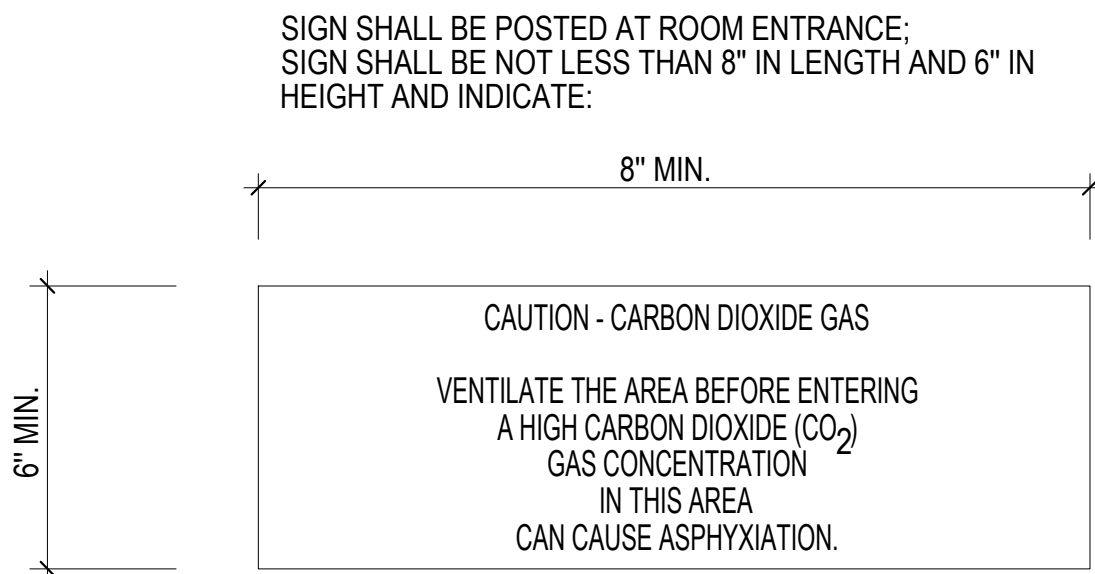
RATING EXPLANATION GUIDE					
RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	REACTIVITY HAZARD	SPECIFIC HAZARD	
4	CAN BE LETHAL	EXTREMELY FLAMMABLE. IGNITES AT BELOW 73° F.	MAY EXPLODE AT NORMAL TEMPERATURES AND PRESSURES	OXIDIZER:	OX
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	IGNITES AT ABOVE 73° F. BELOW 100° F.	MAY EXPLODE AT HIGH TEMPERATURES OR SHOCK	ACID:	ACID
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	IGNITES AT ABOVE 100° F. BELOW 200° F.	VIOLENT CHEMICAL CHANGE AT HIGH TEMPS OR PRESSURES	CORROSIVE:	COR
1	CAN CAUSE SIGNIFICANT IRRITATION	IGNITES AT ABOVE 200° F.	NORMALLY STABLE. HIGH TEMPERATURES MAKE UNSTABLE	ALKALI:	ALK
0	NO HAZARD	WILL NOT BURN	STABLE	USE NO WATER:	-W-
				RADIATION HAZARDS:	
				POLYMERIZES:	P

NOTES:

- CONFIRM SIGNAGE WITH LOCAL FIRE MARSHALL AND/OR BUILDING CODES PRIOR TO INSTALLATION. SIGNS SHALL CONFORM TO NFPA 704.
- SIGNS SHALL BE SIZES AND COLORS PER CODE MOUNTED AT +60" A.F.F. ON DOORS AT CHEMICAL ROOMS.

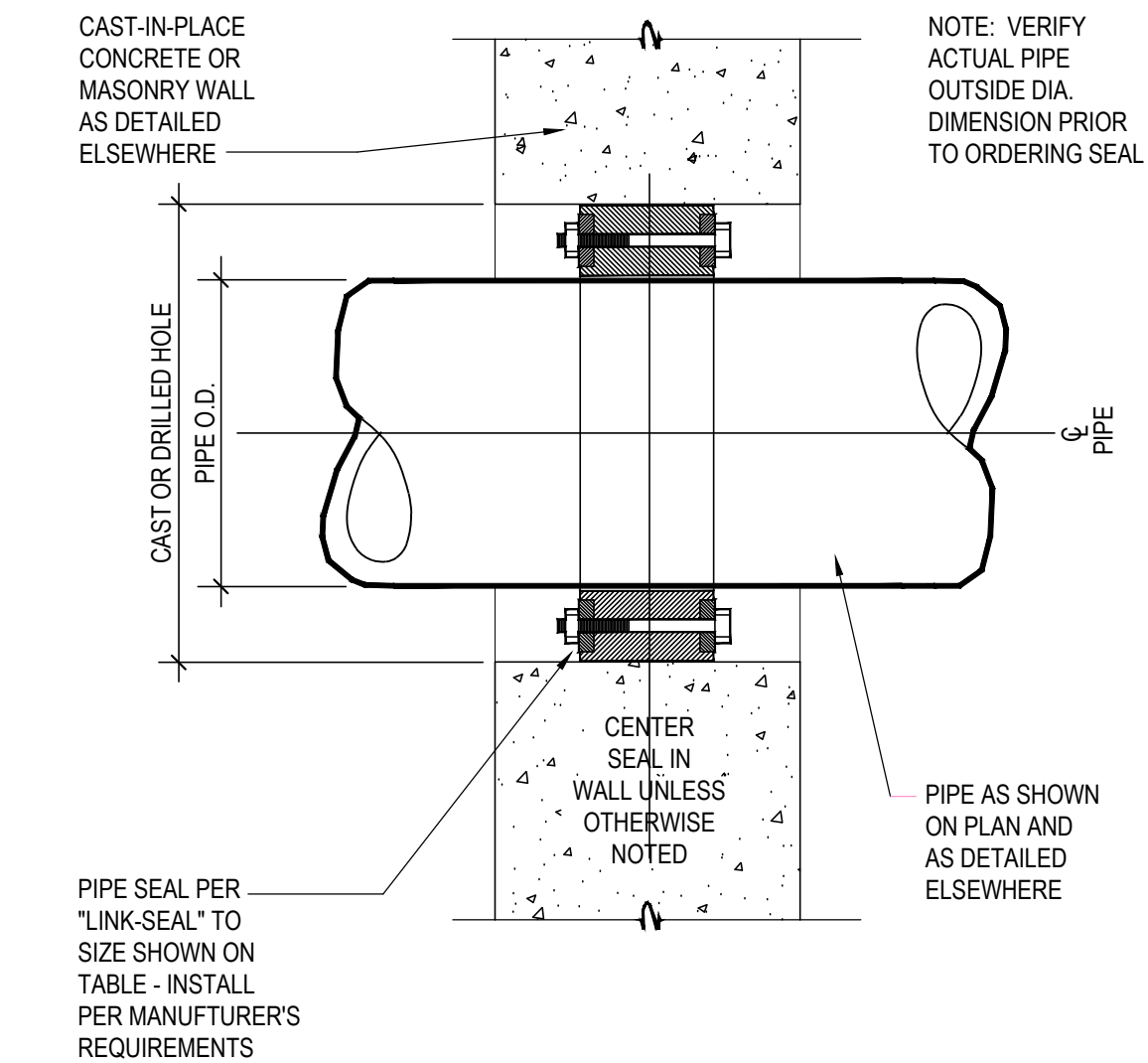
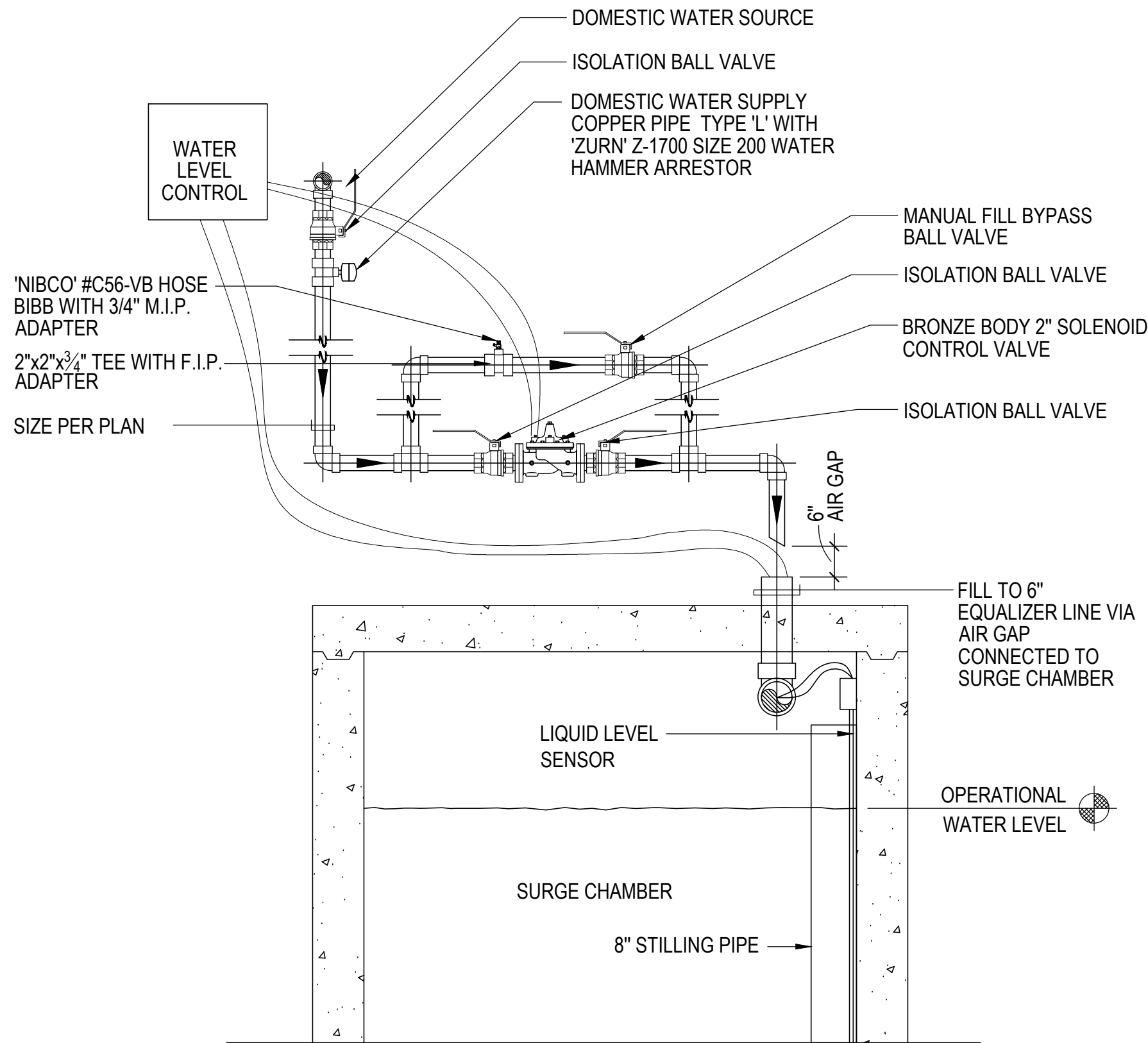


SODIUM HYPOCHLORITE

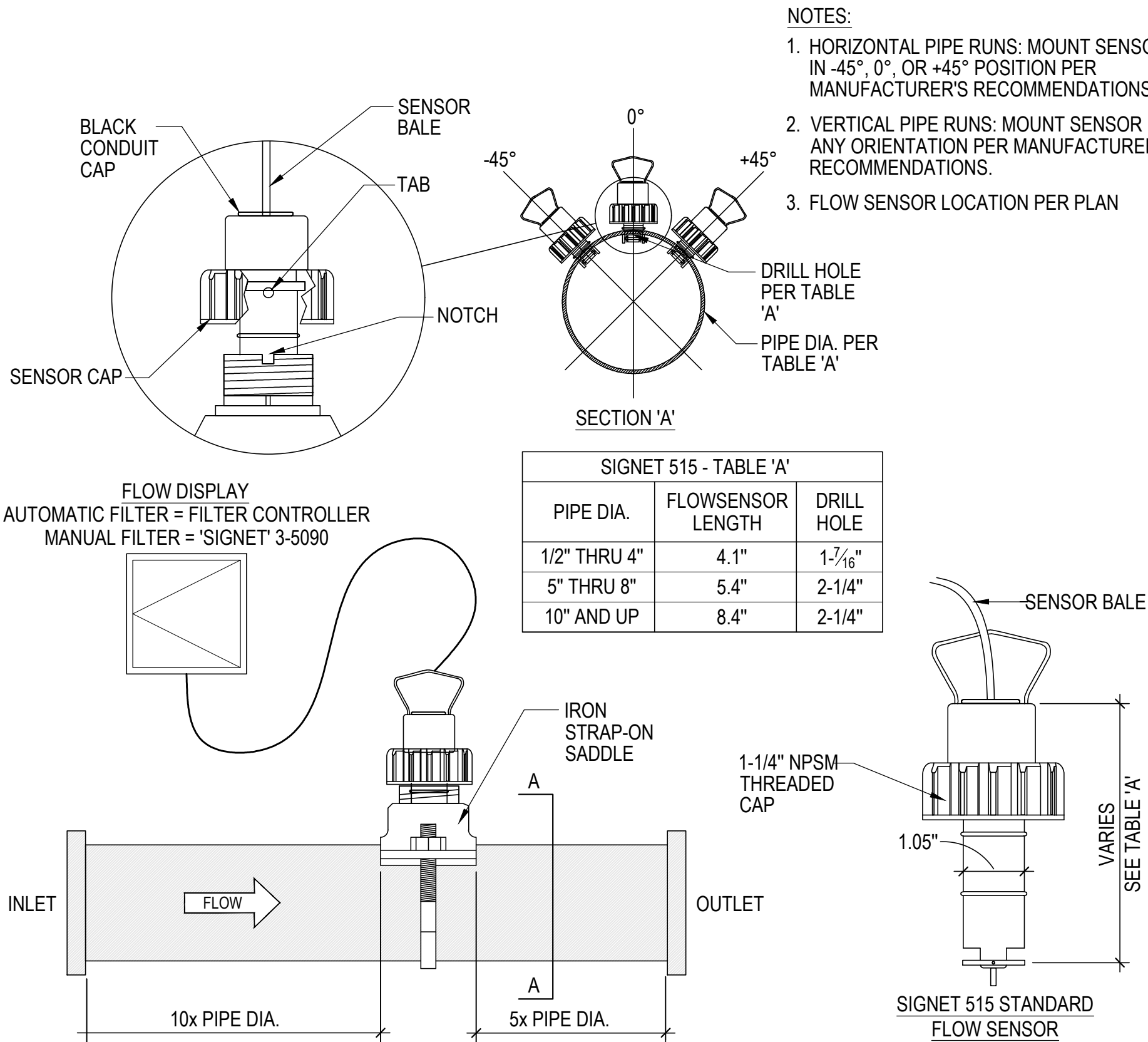


HAZARDOUS INFORMATION SIGNAGE

NO SCALE



PIPE SIZE (NOMINAL)	OUTSIDE DIAMETER (PIPE O.D.)	CAST OR DRILLED CONCRETE HOLE INSIDE DIA. (I.D.)	LINK SEAL SIZE NO.	NO. OF LINKS PER SEAL
1/2"	0.840	2.0	LS-200	4
3/4"	1.050	2.5	LS-275	5
1"	1.315	3.0	LS-300	4
1-1/4"	1.660	3.0	LS-275	7
1-1/2"	1.900	3.5	LS-300	5
2"	2.375	4.0	LS-300	6
2-1/2"	2.875	4.0	LS-200	9
3"	3.50	5.0	LS-300	8
3-1/2"	4.00	6.0	LS-325	5
4"	4.50	6.0	LS-300	10
5"	5.563	8.0	LS-425	6
6"	6.625	10.0	LS-475	10
8"	8.625	12.0	LS-475	12
10"	10.75	14.0	LS-400	10
12"	12.75	16.0	LS-400	12
14"	14.00	16.0	LS-325	15
16"	16.00	18.0	LS-325	17
18"	18.00	23.0	LS-500	16
20"	20.00	25.0	LS-500	18
22"	22.00	27.0	LS-500	19
24"	24.00	29.0	LS-500	21
26"	26.00	31.0	LS-500	23
28"	28.00	33.0	LS-500	24
30"	30.00	35.0	LS-500	26
32"	32.00	37.0	LS-500	28
34"	34.00	39.0	LS-500	29
36"	36.00	41.0	LS-500	30



AUTO/MANUAL WATER MAKE-UP SCHEMATIC

NO SCALE

PIPE SEAL TO WALL / FLOOR

NO SCALE

SIGNET FLOWSENSOR

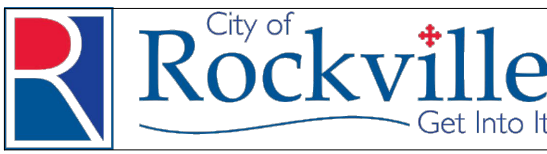
NO SCALE



LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

DETAILS

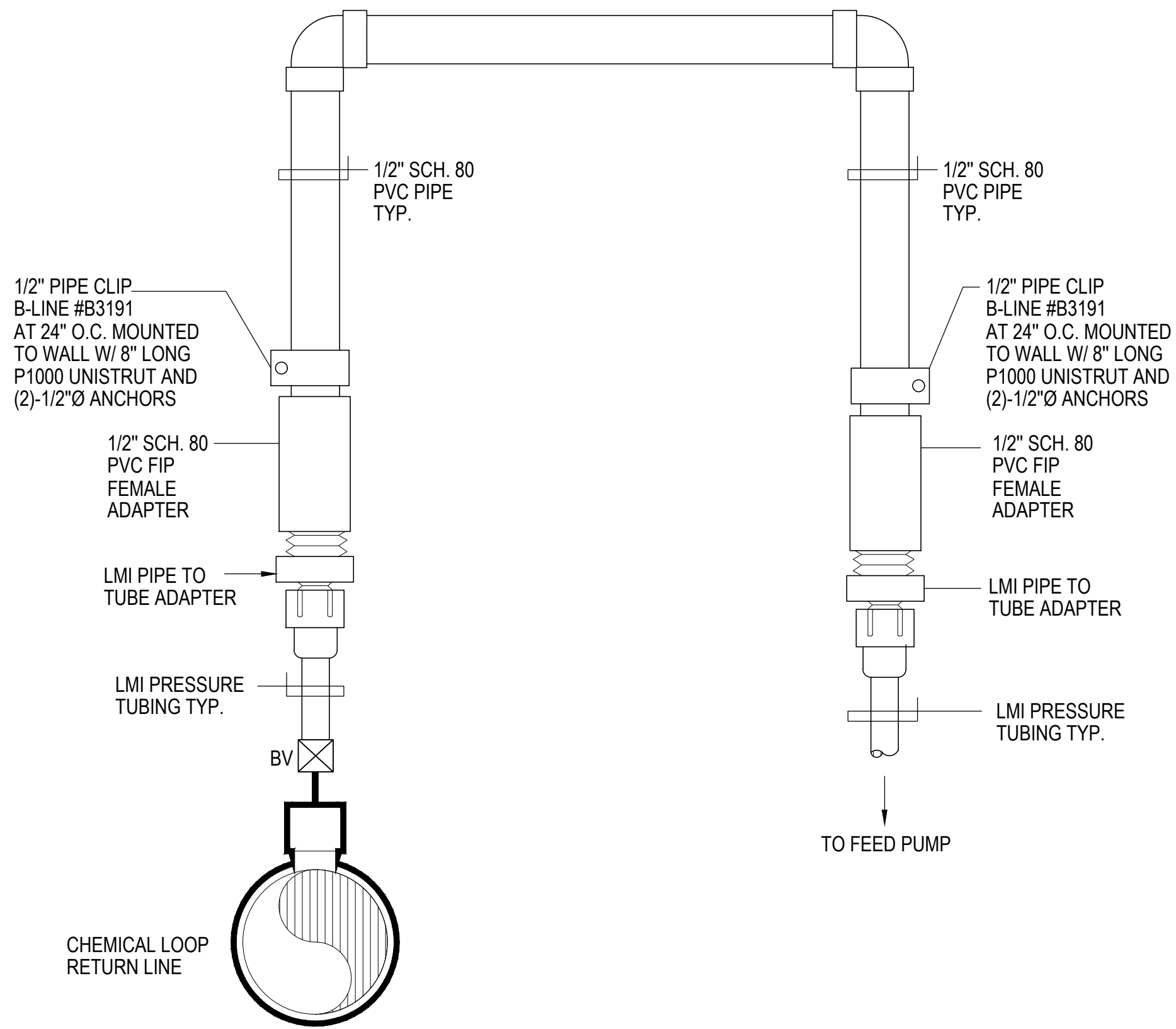
PERMIT SET  
NFC

1	65% CONSTRUCTION DOCUMENT 06/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	PERMIT SET 12/08/2023

No.	Description	Date
Revisions		

Project Number: 22.00036.00  
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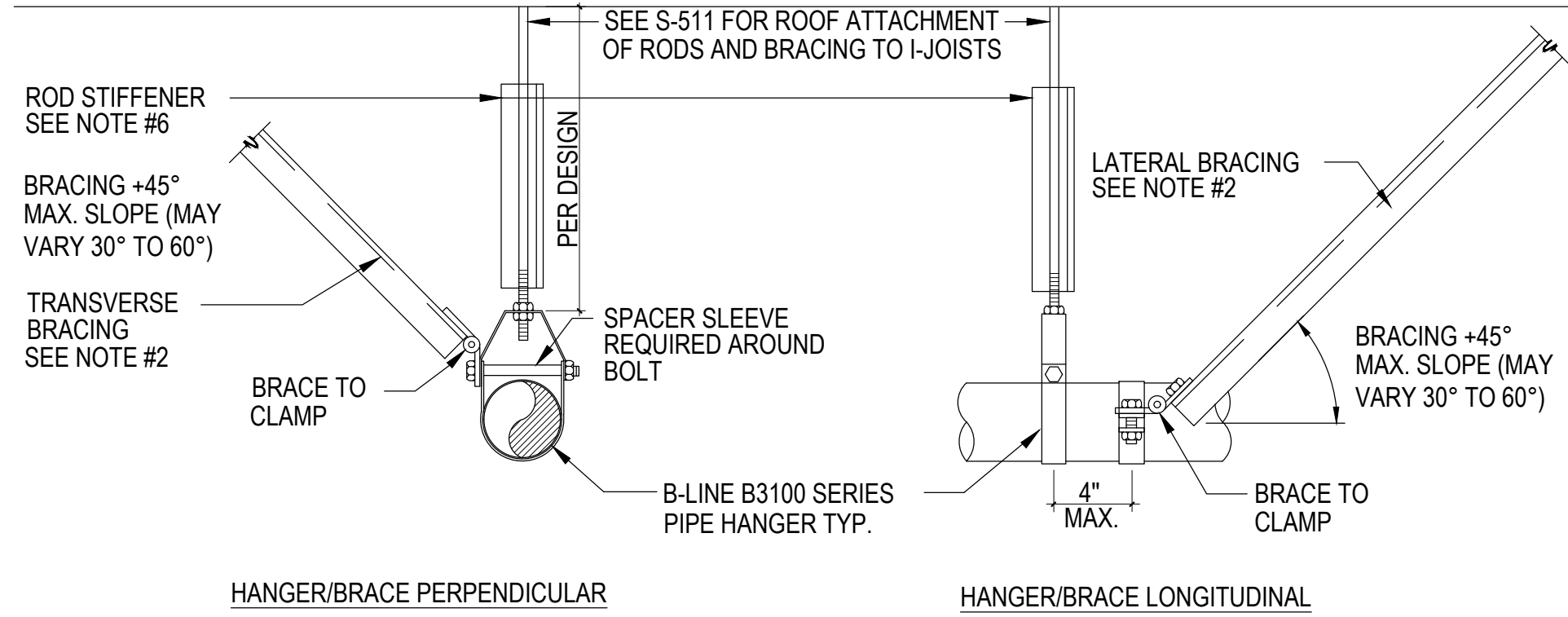
Sheet No. MR-5



1

CHEMICAL FEED PIPING DETAIL

NO SCALE



HANGER ROD SIZES/TABLE

1/2"Ø AT 3" PIPING MAX. ROD LENGTH  
5/8"Ø AT 4" PIPING MAX. ROD LENGTH  
3/4"Ø AT 6" PIPING MAX. ROD LENGTH  
3/4"Ø AT 8" PIPING MAX. ROD LENGTH  
3/4"Ø AT 12" PIPING MAX. ROD LENGTH

MAX. PIPE HANGER SPACING FOR A SINGLE CLEVIS HANGER ONLY

4" PIPING OR SMALLER = 6'-0" O.C.  
6" PIPING = 6'-0" O.C.  
8" PIPING = 6'-0" O.C.  
10" PIPING = 6'-0" O.C.  
12" PIPING = 6'-0" O.C.  
14" PIPING = 4'-0" O.C.

MAX. TRAPEZE SPACING FOR MULTI-PIPE SUPPORT

8" PIPING AND SMALLER = 6'-0" O.C.  
14" PIPING AND SMALLER = 4'-0" O.C.  
COORDINATE WITH STRUCTURAL ENGINEER AND ARCHITECT

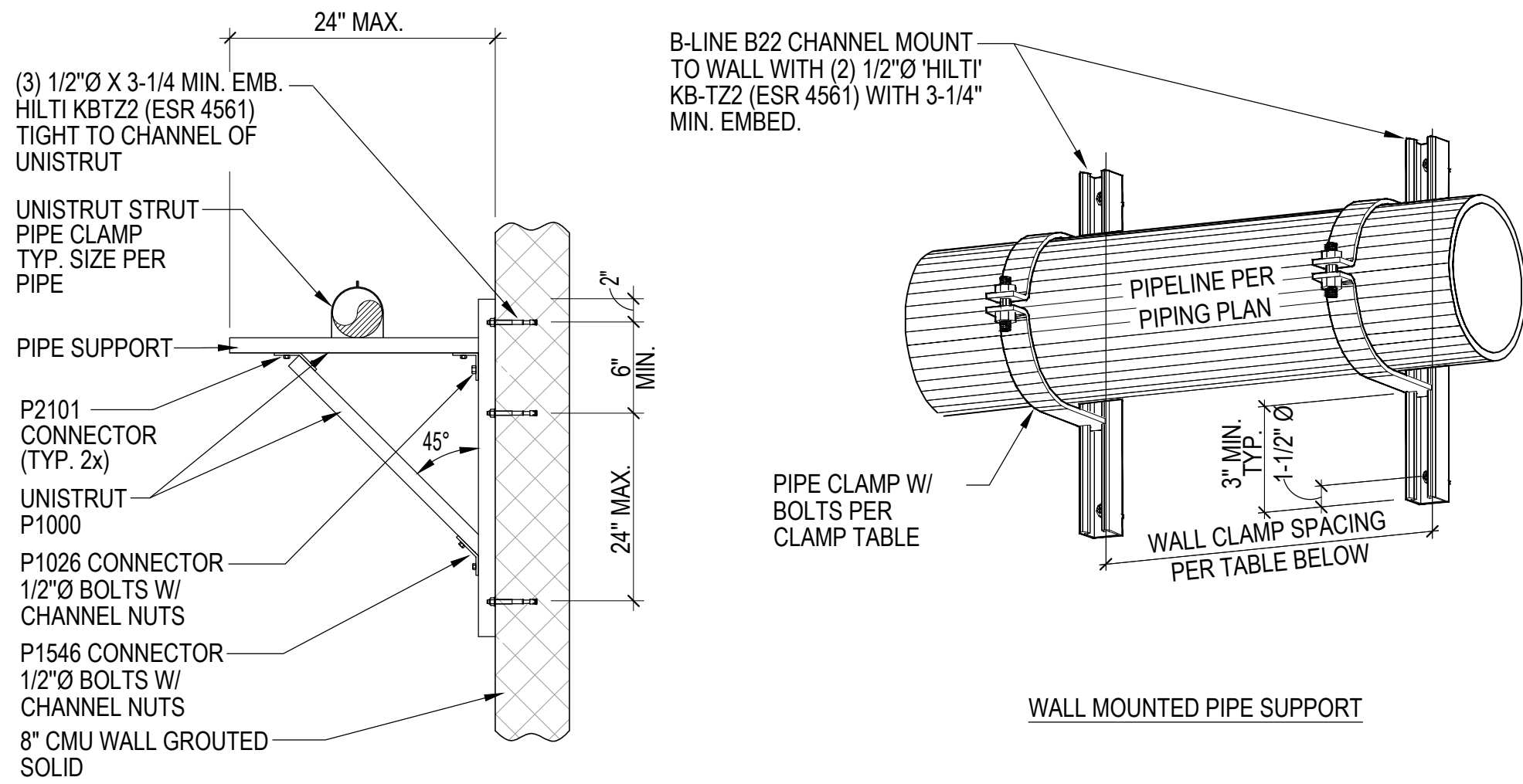
NOTES:

- REFER TO S-511 FOR PIPE HANGER HARDWARE & INSTALLATION. INSTALLATION SHALL SATISFY ANCHORAGE REQUIREMENTS OF ACI 318 CHAPTER 17.
- PROVIDE BRACING FOR EACH PIPE HANGER IN TWO DIRECTIONS AT THE FOLLOWING CONDITIONS:
  - AT EACH CHANGE IN PIPE RUN DIRECTION
  - MID LENGTH OF PIPE RUN
  - SPACING NOT TO EXCEED 12'-0" O.C.
  - P1000 BRACE (9'-6" LENGTH MAX)
- ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- FOR COPPER TUBING USE COPPER PLATED OR PAINTED B3104CT, FELT LINED B3100F, OR PLASTIC COATED B3100C.
- REFER TO MR. 1 FOR PIPE HANGER LOCATIONS.
- PROVIDE ROD STIFFENER @ EACH HANGER.

2

'UNISTRUT' PIPING HANGER / SUPPORT DETAILS

NO SCALE



WALL MOUNTED PIPE SUPPORT

CLAMP SIZES		
PIPE SIZE	MAX. SPAC'G	CLAMP MODEL
1-1/2"	6'-0"	B2012
2"	6'-0"	B2013
2-1/2"	6'-0"	B2014
3"	6'-0"	B2015
4"	6'-0"	B2017
6"	6'-0"	B2020
8"	6'-0"	B2022
10"	4'-0"	B2022
12"	4'-0"	B2022
14"	4'-0"	B2022

EXTENDED WALL MOUNTED PIPE SUPPORT

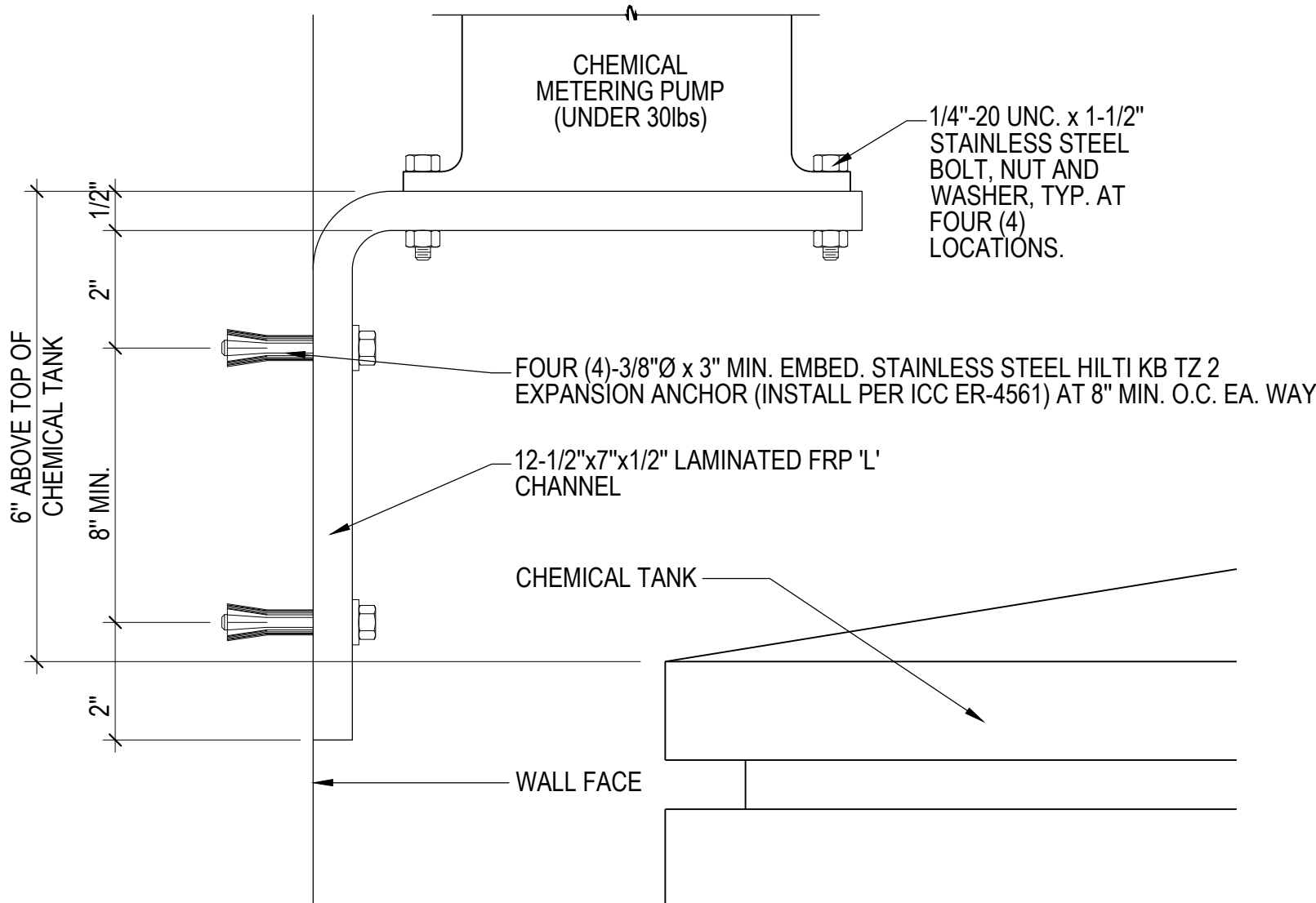
MAX. PIPE HANGER SPACING

4" PIPING OR SMALLER = 6'-0" O.C.  
6" PIPING = 6'-0" O.C.  
8" PIPING = 6'-0" O.C.  
12" PIPING = 6'-0" O.C.  
14" PIPING = 6'-0" O.C.

3

WALL MOUNTED PIPE SUPPORT

NO SCALE

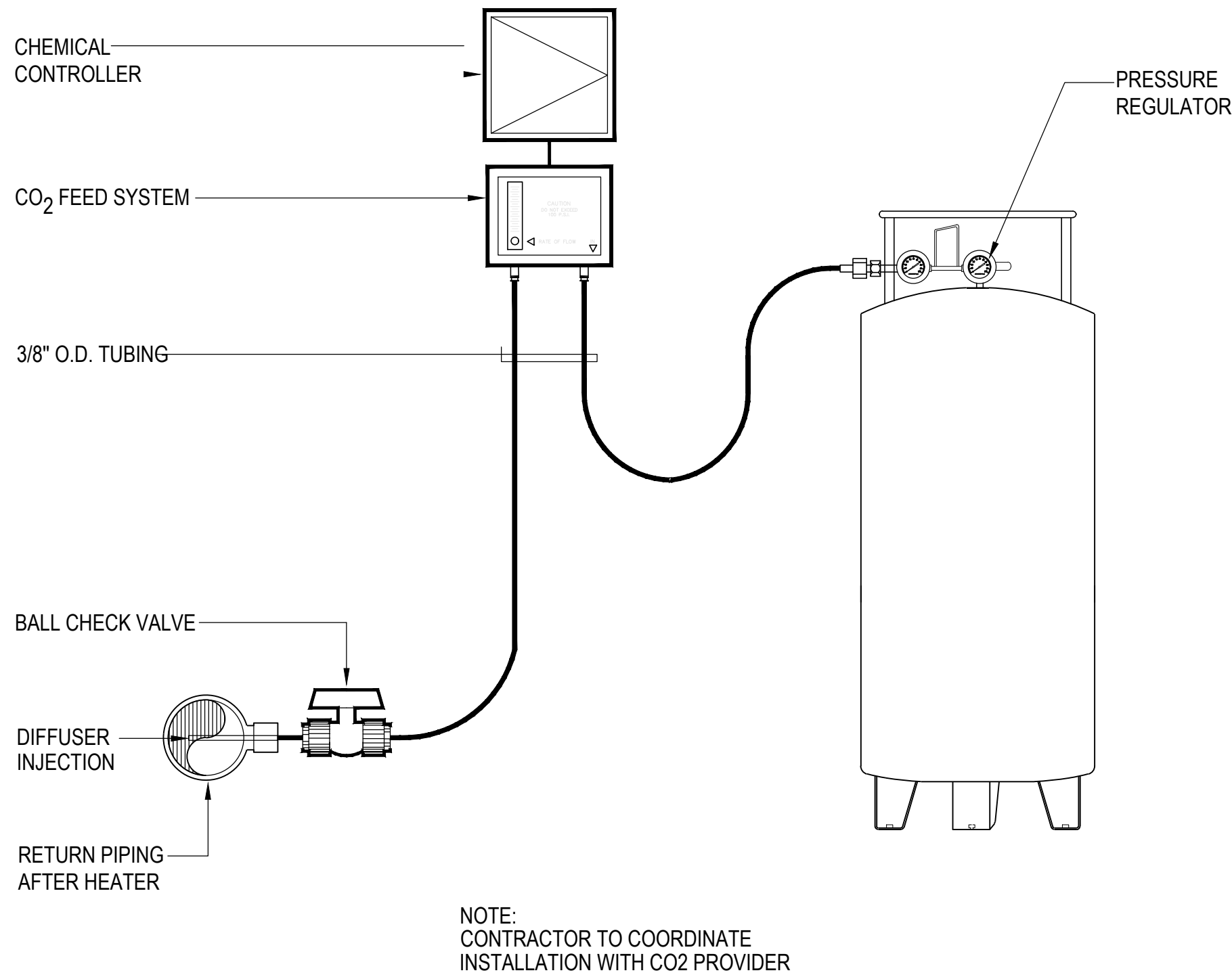


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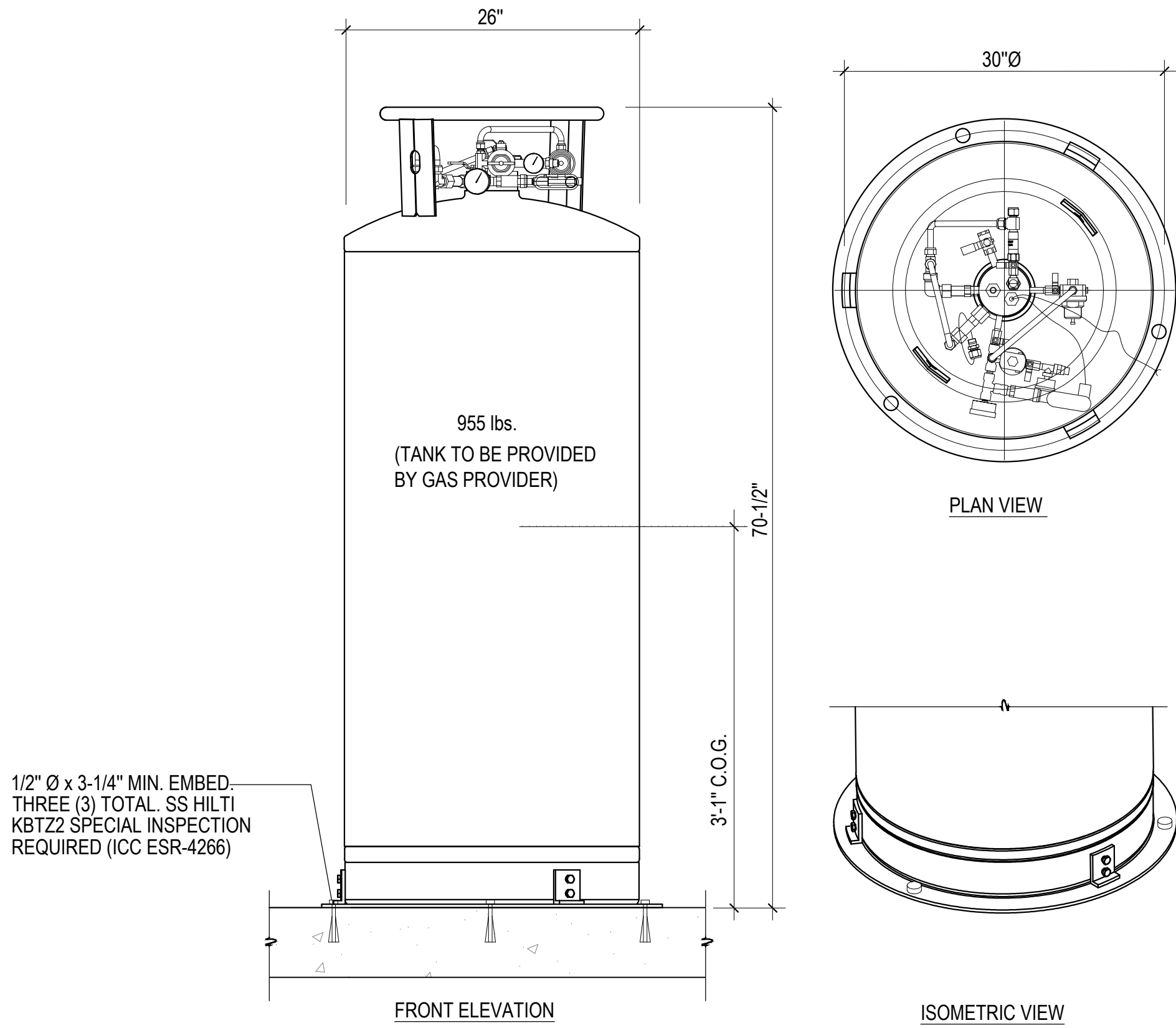
CHEMICAL PUMP SHELF

6"=1'-0"





NOTE:  
CONTRACTOR TO COORDINATE  
INSTALLATION WITH CO2 PROVIDER



1

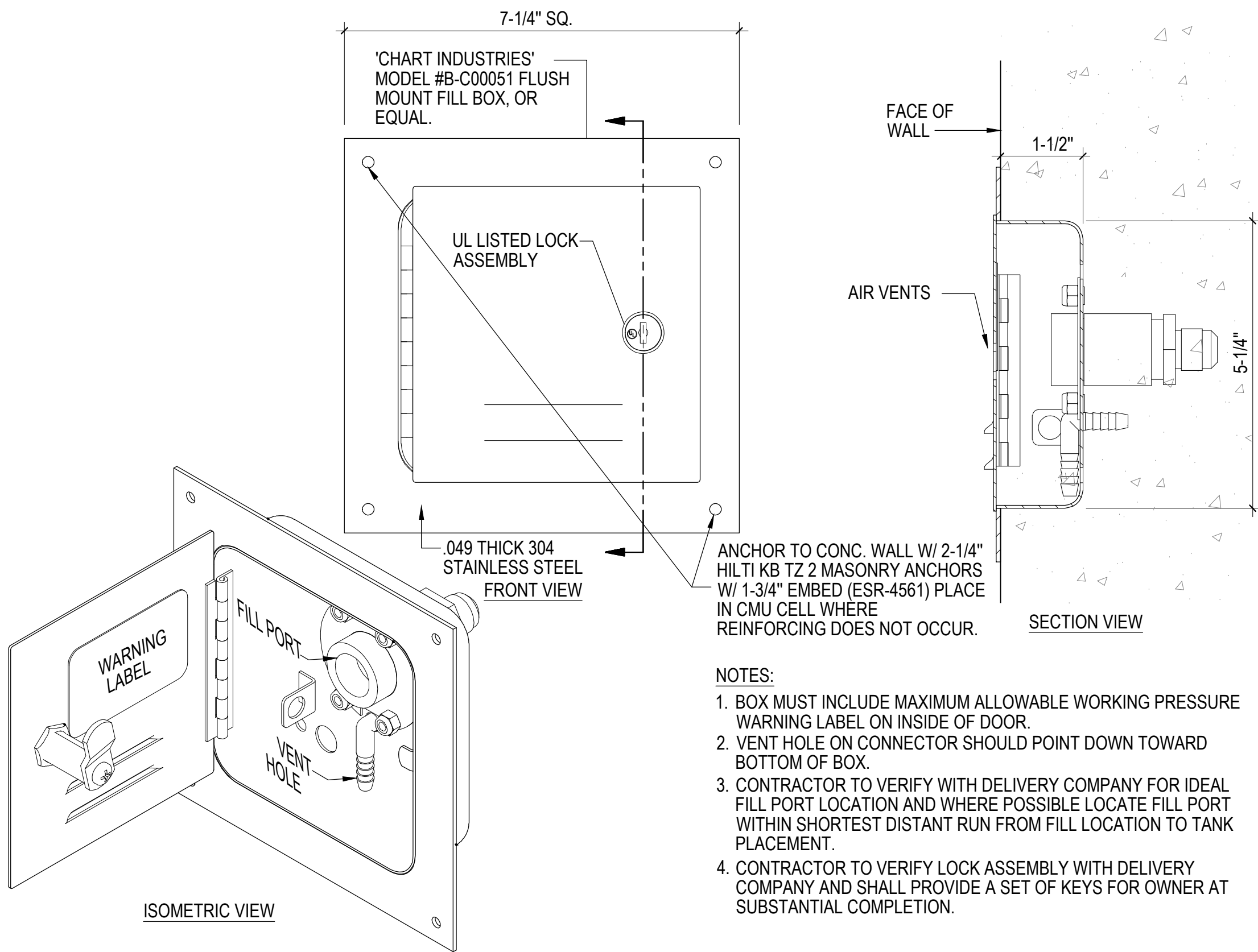
CARBON DIOXIDE FEED SCHEMATIC

NO SCALE

2

C02 TANK ANCHORAGE DETAIL

NO SCALE



- NOTES:
1. BOX MUST INCLUDE MAXIMUM ALLOWABLE WORKING PRESSURE WARNING LABEL ON INSIDE OF DOOR.
  2. VENT HOLE ON CONNECTOR SHOULD POINT DOWN TOWARD BOTTOM OF BOX.
  3. CONTRACTOR TO VERIFY WITH DELIVERY COMPANY FOR IDEAL FILL PORT LOCATION AND WHERE POSSIBLE LOCATE FILL PORT WITHIN SHORTEST DISTANT RUN FROM FILL LOCATION TO TANK PLACEMENT.
  4. CONTRACTOR TO VERIFY LOCK ASSEMBLY WITH DELIVERY COMPANY AND SHALL PROVIDE A SET OF KEYS FOR OWNER AT SUBSTANTIAL COMPLETION.

3

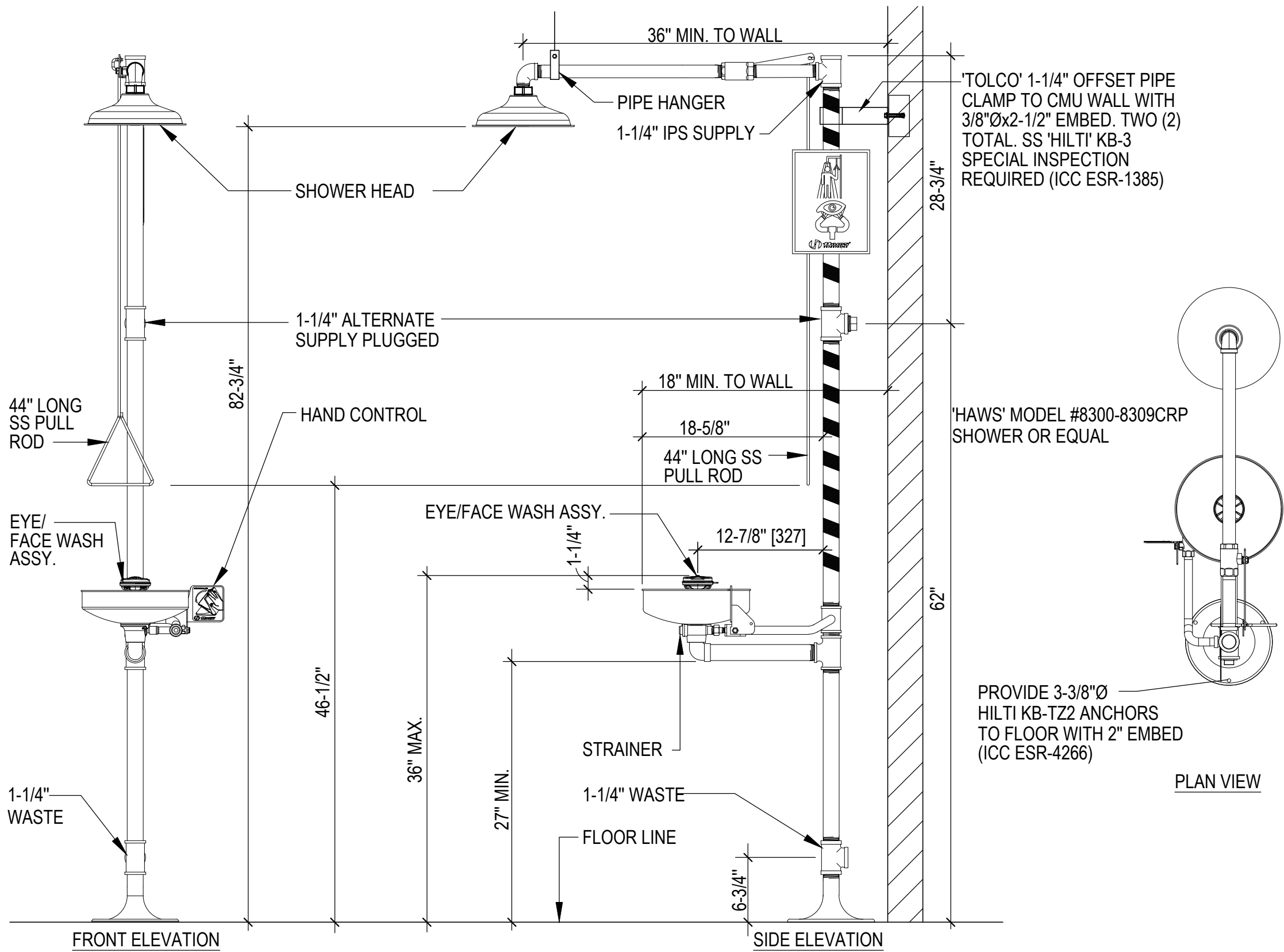
C02 FLUSH MOUNT FILL BOX

NO SCALE

4

TYPICAL EYEWASH/SHOWER DETAIL

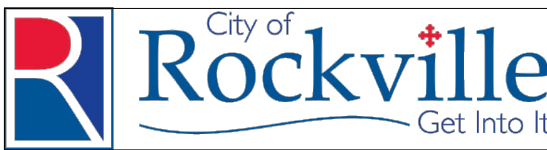
NO SCALE



LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
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ROCKVILLE SWIM  
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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

DETAILS

PERMIT SET  
NFC

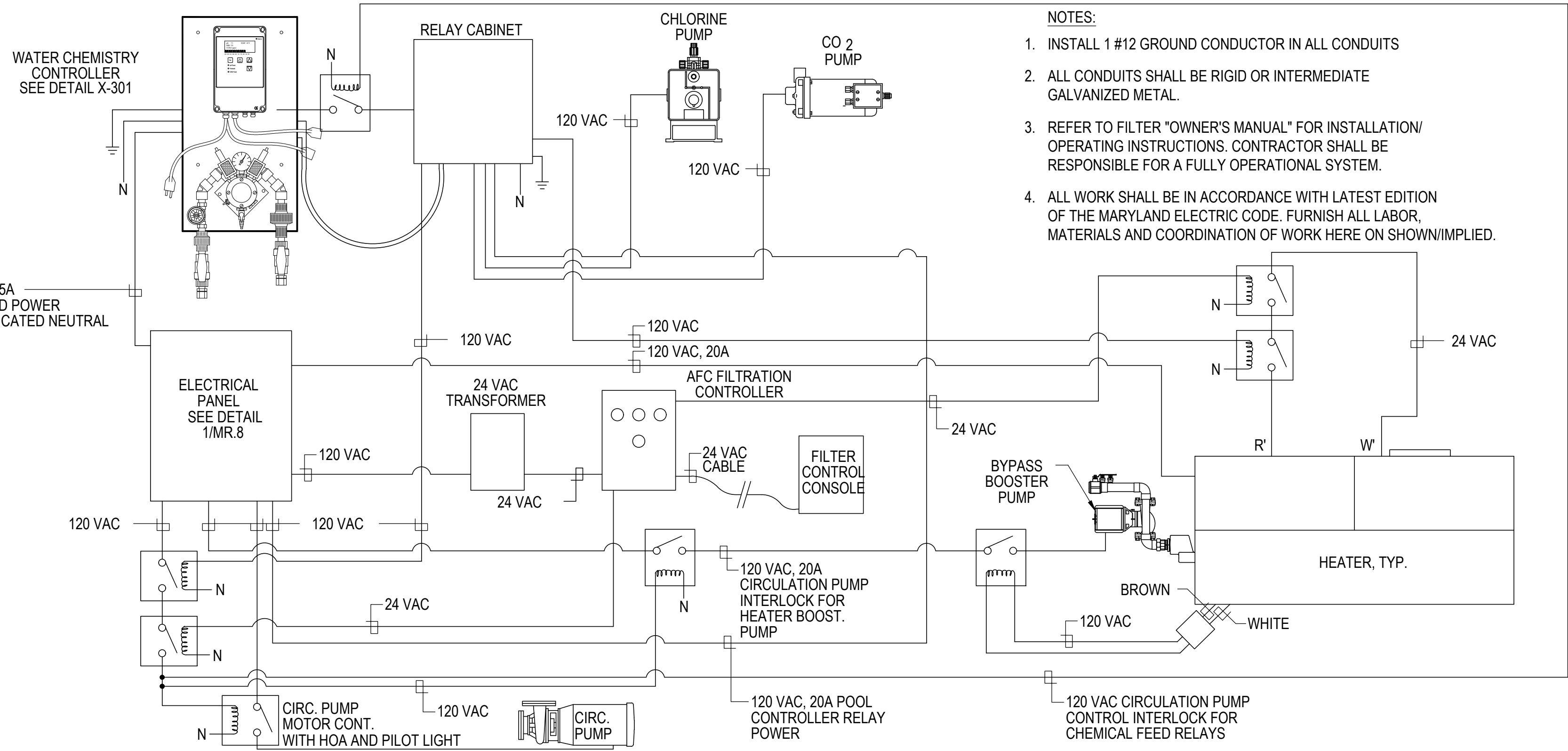
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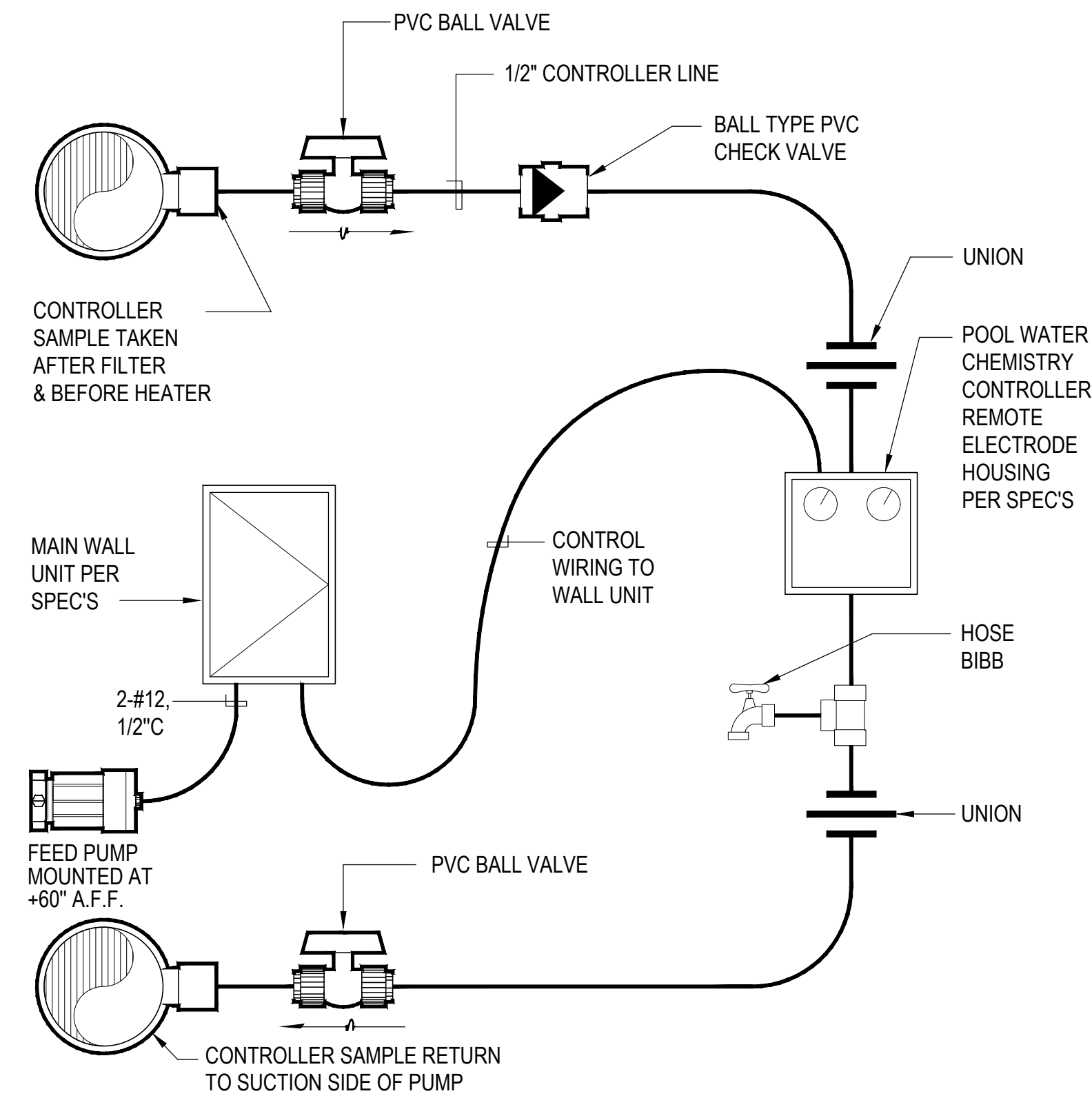
Sheet No. MR-6





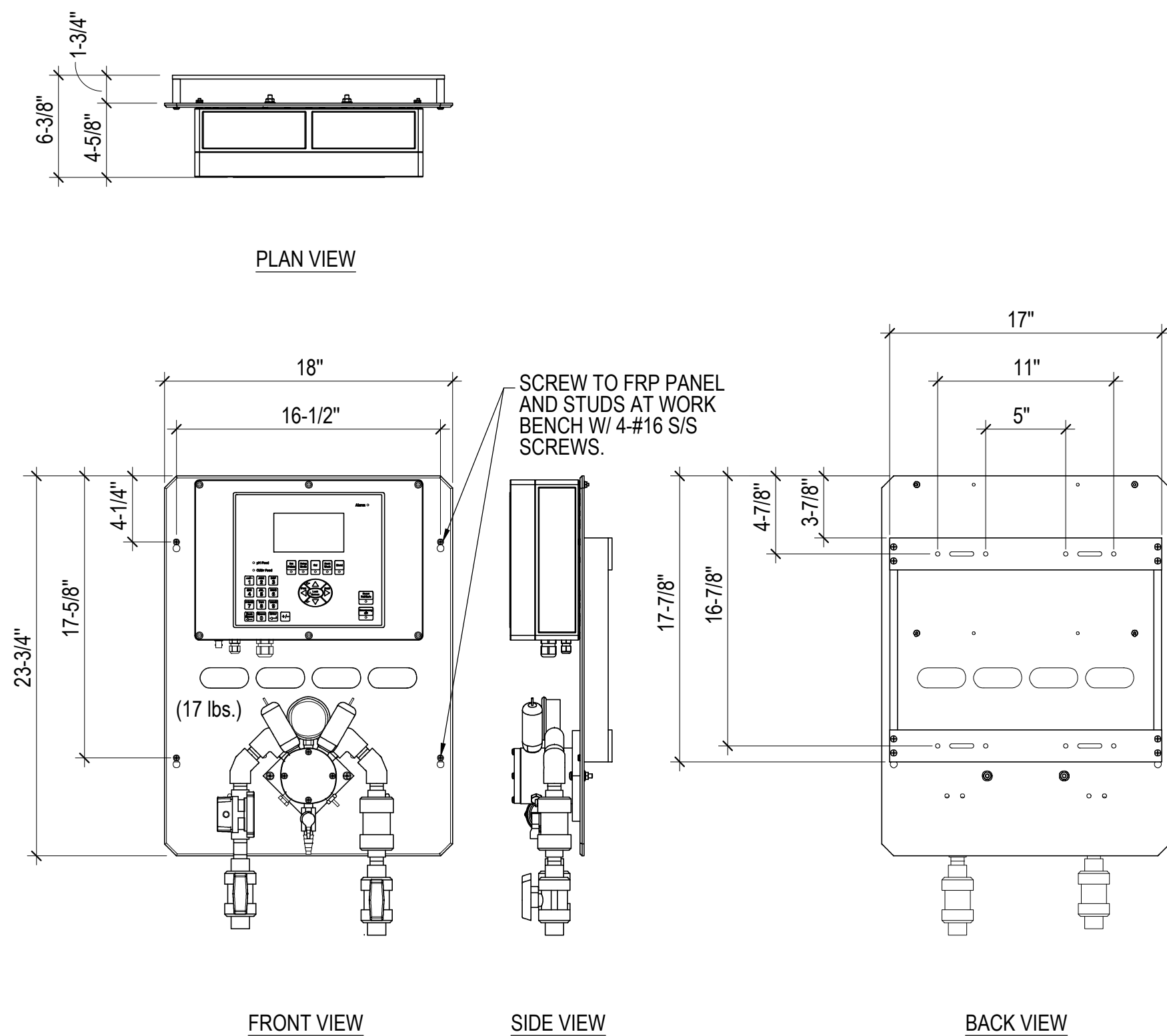
1 POOL MECHANICAL ELECTRICAL INTERCONNECTION DIAGRAM

NO SCALE



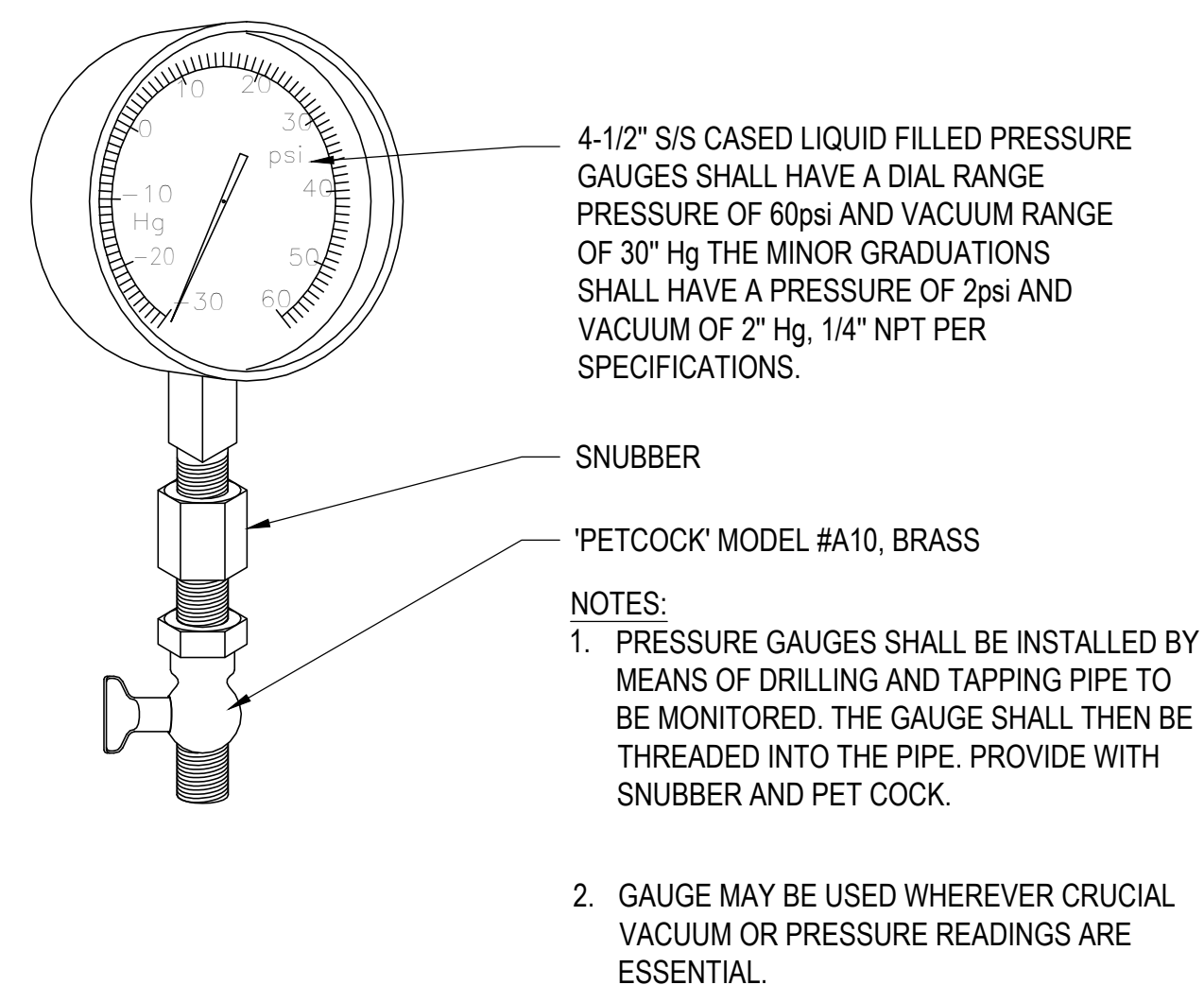
2 WATER CHEMISTRY CONTROLLER SCHEMATIC

NO SCALE



3 WATER CHEMISTRY CONTROLLER

1-1/2"=1'-0"



4 PRESSURE/VACUUM GAUGE

NO SCALE

LSG LANDSCAPE  
ARCHITECTURE

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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
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CITY OF ROCKVILLE, MARYLAND

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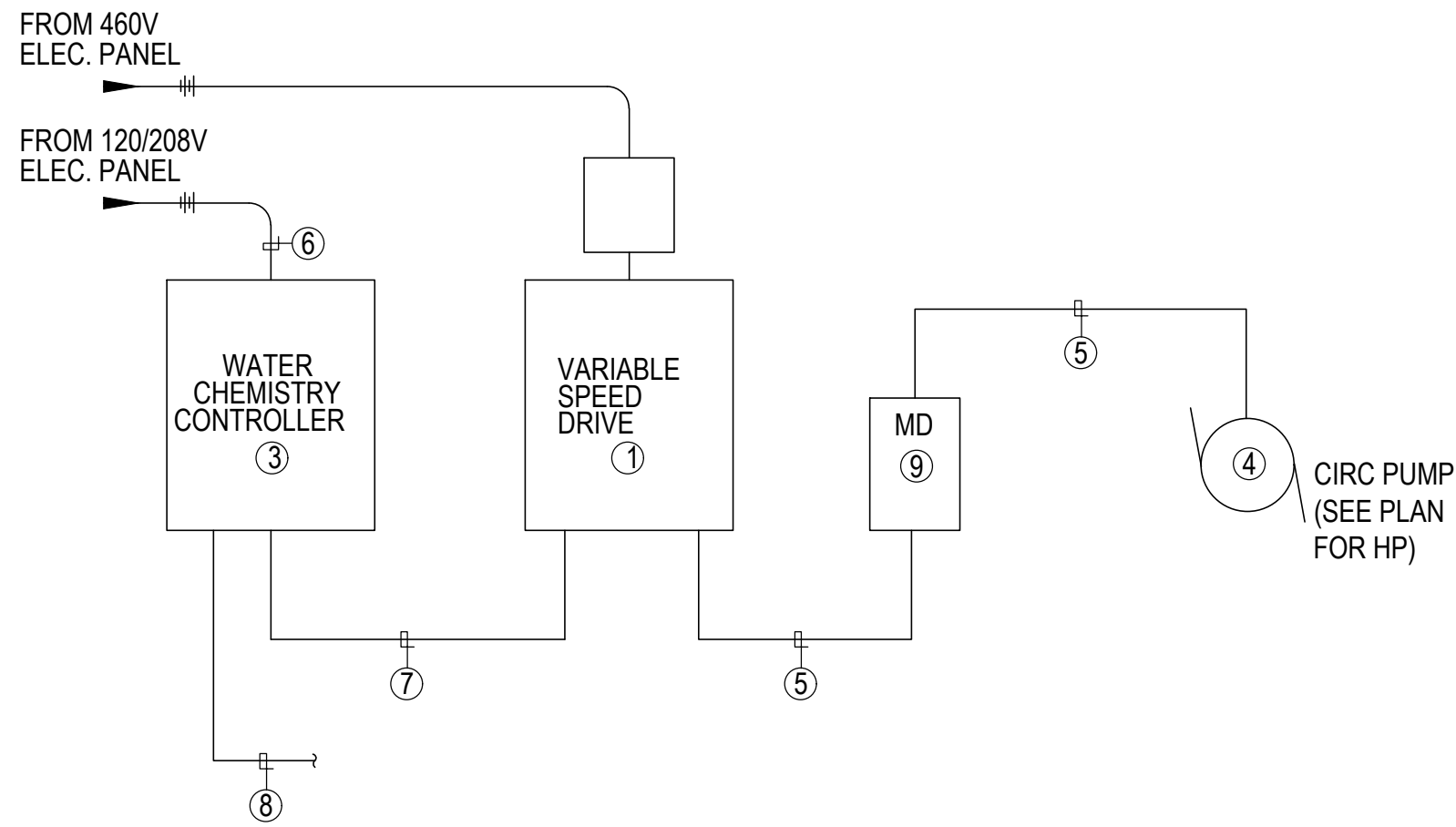
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Revisions		

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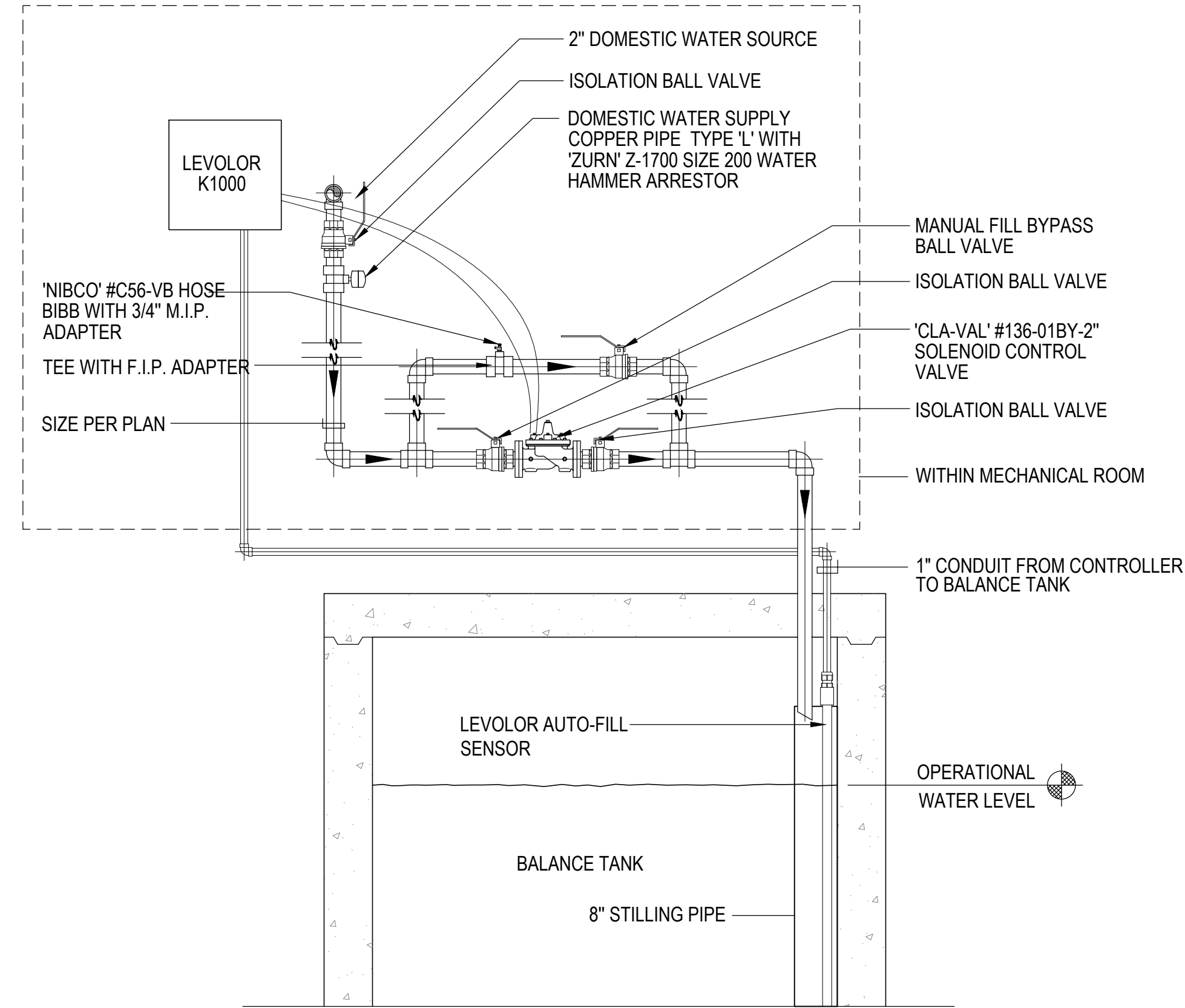
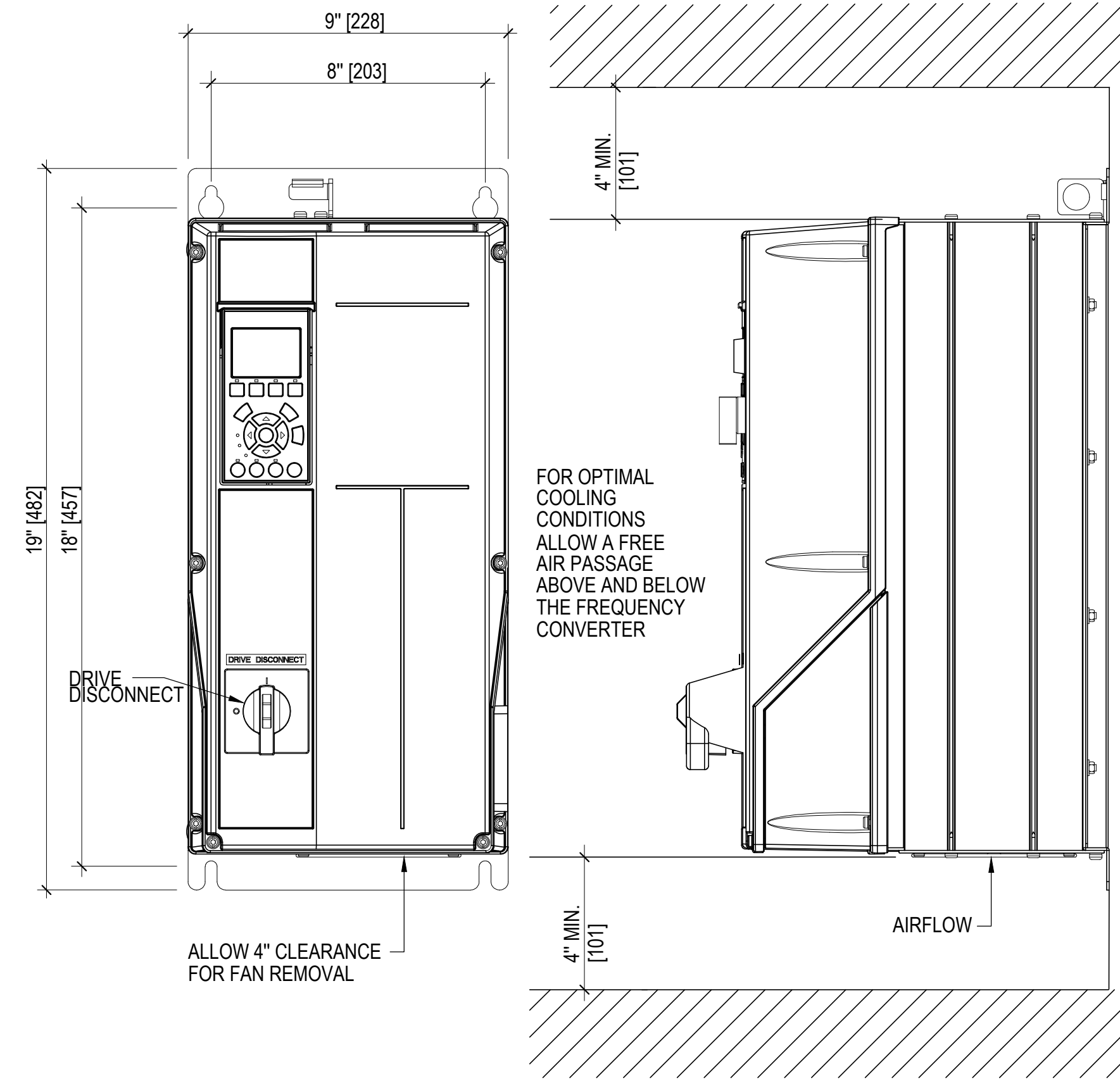
Sheet No. MR-7

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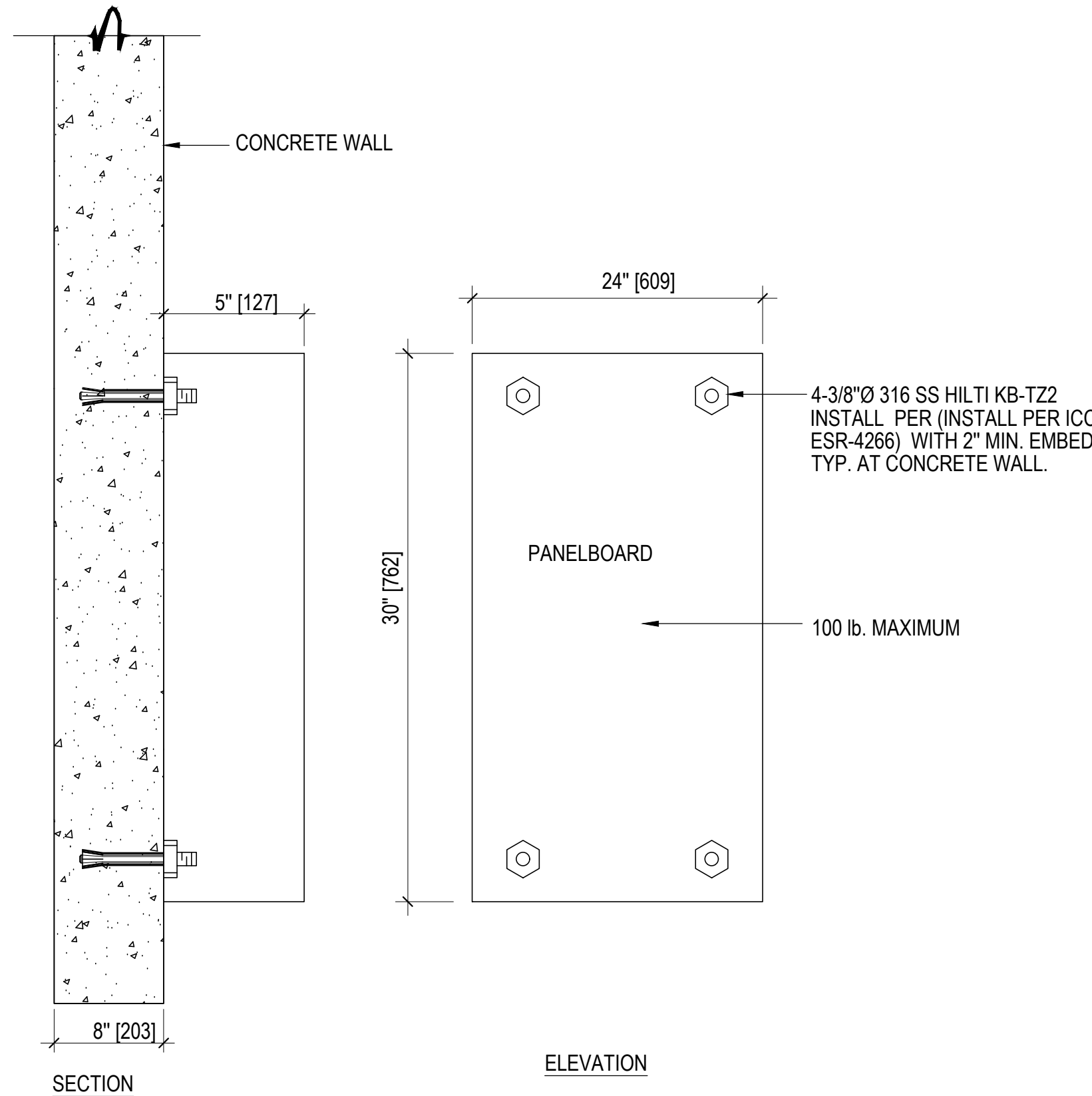
- NOTES:
- 1 VARIABLE SPEED DRIVE MOTOR CONTROL CABINET, SEE PLANS AND SPECIFICATIONS.
  - 2 N/A
  - 3 WATER CHEMISTRY/FILTER CONTROL UNIT, SEE PLANS.
  - 4 CONNECT TO CIRCULATION PUMP MOTOR, SEE PLANS.
  - 5 MOTOR FEEDERS, SEE SINGLE LINE DIAGRAM.
  - 6 120 VOLT BRANCH CIRCUITS, SEE PLANS.
  - 7 3/4\"C, (4) #12, (1) #12 GND. (120 VOLT CONTROL WIRING)
  - 8 24 VOLT SIGNAL AND SENSOR CABLING, SEE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.
  - 9 MOTOR DISCONNECT, SEE PLANS.



1 TYPICAL WIRING SCHEMATIC AT VFD UNIT NO SCALE

2 VARIABLE FREQUENCY DRIVE PANEL NO SCALE

3 AUTOMATIC/MANUAL WATER MAKE-UP SCHEMATIC NO SCALE



DESIGNATION: 'SP1'				VOLTAGE: 120/208V 3PH 4W				LOCATION: MECHANICAL EQUIP. RM.			
400 AMP <input checked="" type="checkbox"/> MAIN BREAKER <input type="checkbox"/> MAIN LUG				<input type="checkbox"/> RECESSED <input checked="" type="checkbox"/> SURFACE				MINIMUM DEVICE <input checked="" type="checkbox"/> 10,000 <input type="checkbox"/> 14,000			
				A.I.C. RATING				PANELBOARD KEY NOTES			
								1 0 0 0			
DESCRIPTION:				C/B				DESCRIPTION:			
AP WATER LEVEL CONTROLLER (1)				1	10560	2	100	AP CIRC PUMP			
SP WATER LEVEL CONTROLLER				3	720	4	10560	30HP			
SL WATER LEVEL CONTROLLER				5		6	1	AP PLAY STRUCT BSTR PUMP			
AP WATER CHEM. CONT.				7	1200	8	50	15HP			
SP WATER CHEM. CONT.				9	5544	10	1200	AP WET PLAY BSTR PUMP #1			
SL WATER CHEM. CONT.				11		12	1	5HP			
AP CO2 FEED				13	720	14	20	AP WET PLAY BSTR PUMP #2			
SP CO2 FEED				15	2004	16	720	5HP			
SL CO2 FEED				17		18	1	AP CIRC PUMP MTR CONTR.			
CHLOR FEED				19	720	20	20	AP BSTR PUMP MTR CONTR.			
CHLOR FEED				21	2004	22	720	AP WET PLAY MTR CONTR. #1			
CHLOR FEED				23		24	1	AP WET PLAY MTR CONTR. #1			
AP UV SYSTEM				25	2500	26	20	CHLOR FEED			
2.5kW				27	360	28	1	CHLOR FEED			
SLIDE CHLOR TABLET FEEDER				29		30	1056	CHLOR FEED			
1HP				31	1056	32	720	CHLOR FEED			
CO2 SENSOR				33	720	34	720	CHLOR FEED			
SPARE				35		36	720	CHLOR FEED			
				37		38		CHLOR FEED			
				39		40		CHLOR FEED			
				41		42		CHLOR FEED			
TOTAL PER PHASE				28,108	27,772	26,288	34,421	120V = 286 AMPS			
+ 25% L.C.L.				6,313	6,403	5,688					
TOTAL				34,421	34,175	31,976					

- 1 GFI CIRCUIT
- AP = ACTIVITY POOL  
SP = SWIMMING POOL  
SL = SLIDE

DESIGNATION: 'SP2'				VOLTAGE: 120/208V 3PH 4W				LOCATION: MECHANICAL EQUIP. RM.			
250 AMP <input checked="" type="checkbox"/> MAIN BREAKER <input type="checkbox"/> MAIN LUG				<input type="checkbox"/> RECESSED <input checked="" type="checkbox"/> SURFACE				MINIMUM DEVICE <input checked="" type="checkbox"/> 10,000 <input type="checkbox"/> 14,000			
				A.I.C. RATING				PANELBOARD KEY NOTES			
								1 0 0 0			
DESCRIPTION:				C/B				DESCRIPTION:			
SP CIRC PUMP				50	1	5544	2	SLIDE BOOSTER PUMP 'A'			
15HP				3	5034	4	5544	7.5HP			
				5	5034	6	5544	SLIDE BOOSTER PUMP 'B'			
SLIDE CIRC PUMP				7	800	8	30	7.5HP			
2HP				9	5034	10	900	SLIDE 'A' MTR CONTR.			
SP CIRC MTR CONTR.				11	5034	12	900	SLIDE 'B' MTR CONTR.			
SL CIRC MTR CONTR.				13	360	14	360	SPARE			
				15	360	16	360				
				17		18	720				
				19		20					
				21		22					
				23		24					
				25		26					
				27		28					
				29		30					
				31		32					
				33		34					
				35		36					
				37		38					
				39		40					
				41		42					
TOTAL PER PHASE				17,232	17,232	17,232	21,360	120V = 178 AMPS			
+ 25% L.C.L.				4,128	4,128	4,128					
TOTAL				21,360	21,360	21,360					

- 1 GFI CIRCUIT
- AP = ACTIVITY POOL  
SP = SWIMMING POOL  
SL = SLIDE

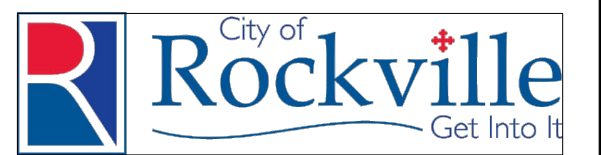
4 PANELBOARD MOUNTING DETAIL NO SCALE

5 PANEL SCHEDULES

## LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

## OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

## DETAILS

## PERMIT SET NFC

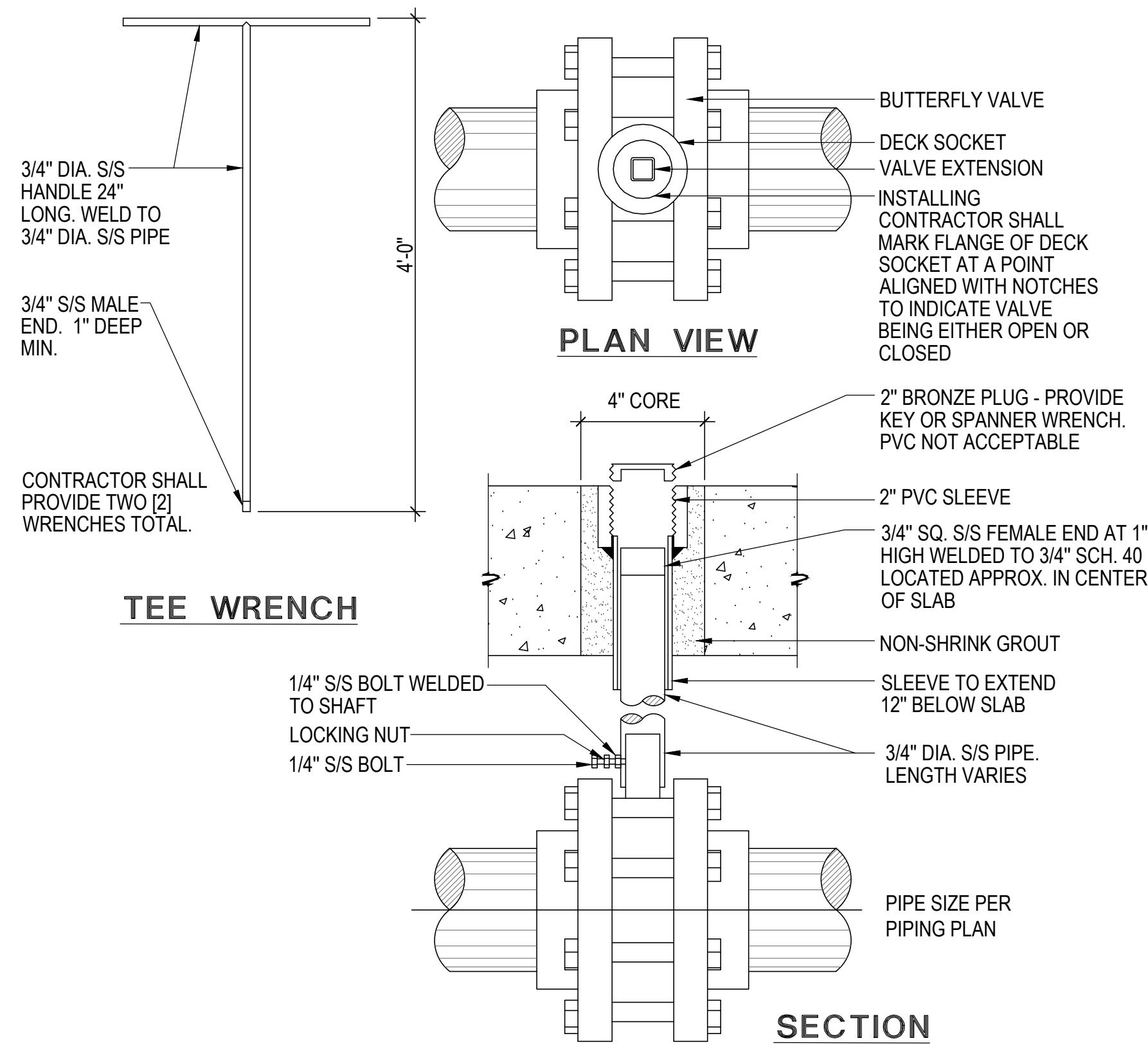
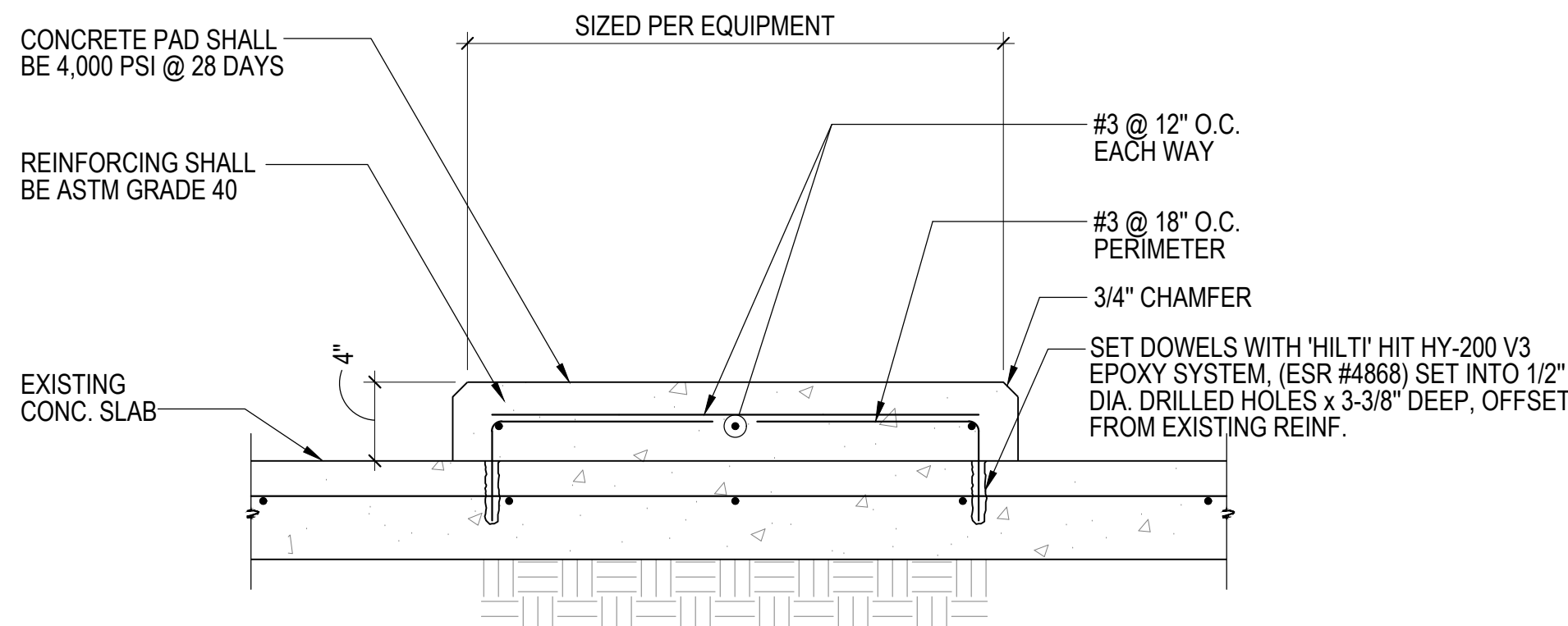
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1

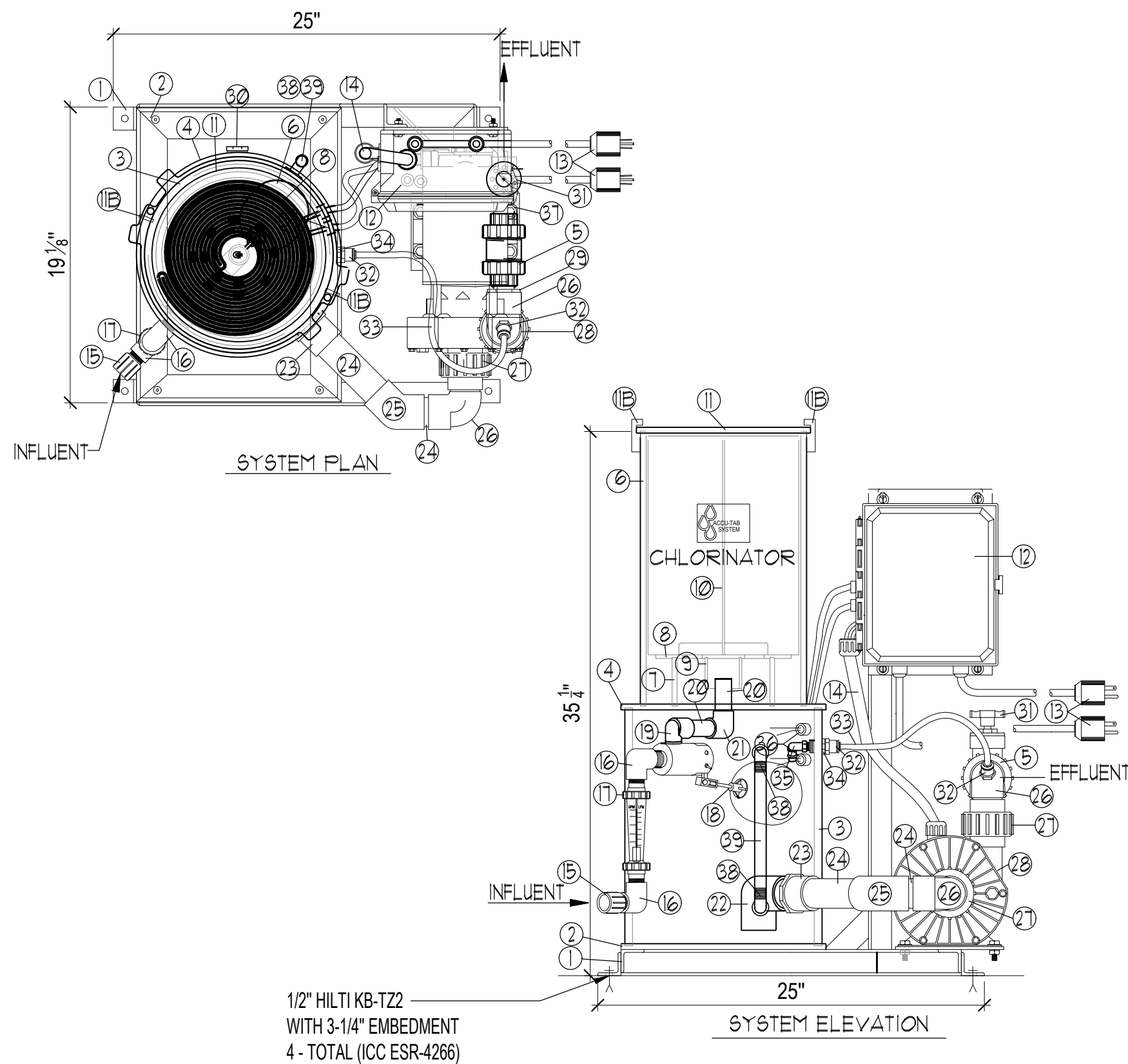
RETROFIT MECHANICAL PAD

1-1/2" = 1'-0"

2

BUTTERFLY VALVE / EXTENSION DETAIL

NO SCALE



POWER BASE 1030					
ITEM	QUAN.	DESCRIPTION	ITEM	QUAN.	DESCRIPTION
1	1	19 1/2" X 22" ALUMINUM 1 1/2" ANGLE FRAME WITH ELECTRICAL PANEL & MOTOR BRACKETS & ANCHOR ANGLES	20	2 PCS	3/4" SCH. 40 PVC PIPE
2	1	13 1/4"X19"X3/8" PVC TANK BASE W/ 4 FASTENERS	21	1	SPEARS SCH. 40 PVC 3/4" SLIP X SLIP 90° ELBOW
3	1	12" SCH.40 PVC PIPE SOLUTION TK. BODY X ;15"LG.			BOOSTER PUMP PIPING
4	1	13 1/4" DIA. X 3/8" PVC DIVIDER PLATE	22	1	SPEARS SCH. 40 PVC 1 1/2" SLIP X THREAD 90 ELBOW
5	1	1" SPEARS FLAP CHECK VALVE	23	1	SPEARS SCH. 40 PVC 1 1/2" MALE ADAPTOR
6	1	10" SCH.40 PVC PIPE CHLORINATOR TK. BODY X ;17 1/2"LG.	24	AR	1 1/2" SCH. 40 PVC PIPE (-10' TOTAL)
7	1	6" SCH.40 PVC PIPE SIEVE PLATE SUPPORT X ;3 1/8"LG.	25	1	SPEARS SCH 40 PVC 1 1/2" SLIP X SLIP 45° ELBOW
8	1	3/4" SPIRAL SIEVE PLATE	26	2	SPEARS SCH. 40 PVC 1 1/2" SLIP X MALE SLIP STREET ELBOW
9	1	2" SCH.40 PVC PIPE DIVERTER X ;2"LG.	27	2	SPA-RITE PVC PUMP UNION HALF
10	1	STACKING CARTRIDGE	28	1	HAYWARD 1 H.P., PAPP100, CHLORINE BOOSTER PUMP
11	1	11 1/4"DIA. X 3/8" PVC CHLORINATOR LID PLATE	29	1	SPEARS SCH. 40 PVC 1 1/2" X 1" REDUCING BUSHING
11B	2	LOCKING TABS	30	1	1" SCH. 40 PVC THD OVERFLOW DRAIN PLUG
12	1	ELECTRICAL CONTROL PANEL W/ 4 BOLTS, WASHERS & NUTS	31*	1	1" KBI PVC GATE VALVE
13	2	±8FT ELECTRICAL CORD WITH 3-PRONG PLUG	32	2	1/4" NPT. X 3/8" COMPRESSION SPEED FITTING
14	1	ELECTRICAL CONDUIT WITH (2) CONNECTORS	33	1	3/8" X 1/4" AIR VENT TUBING (-16" LG.)
		CHLORINATOR/TANK INFLUENT PIPING	34	1	1/2" X 1/4" THD. X THD. PVC BUSHING
15*	1	SPEARS SCH. 40 PVC 1" X 3/4" MALE ADAPTOR	35	1	1/4" NPT. X 1/2" BARB 90° ELBOW
16*	2	SPEARS SCH. 40 PVC 3/4" THD. X TRD. 90; ELBOW	36	2	LEVEL SWITCHES
17*	1	3/4" BLUE & WHITE FLOWMETER MODEL F-44750LH-12	37	AR	1" PVC SCH. 40 PIPE
18	1	3/4" MILLER TANK MOUNT FLOAT VALVE W/ 4" BALL FLOAT	38	2	3/4" THREAD x BARB PVC ELBOWS
19	1	SPEARS SCH. 40 PVC 3/4" STREET ELBOW	39	AR	3/4" CLEAR TUBING

NOTE \* = SHIPS LOOSE

3

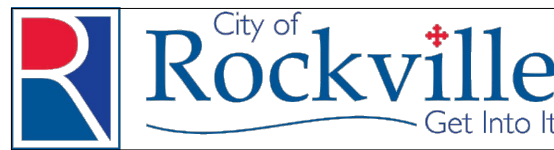
CHLORINE TABLET FEEDER

1 1/2" = 1'-0"

LSG LANDSCAPE  
ARCHITECTURE

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DEPARTMENT OF  
RECREATION AND PARKS

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RECREATION POOL  
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355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

DETAILS

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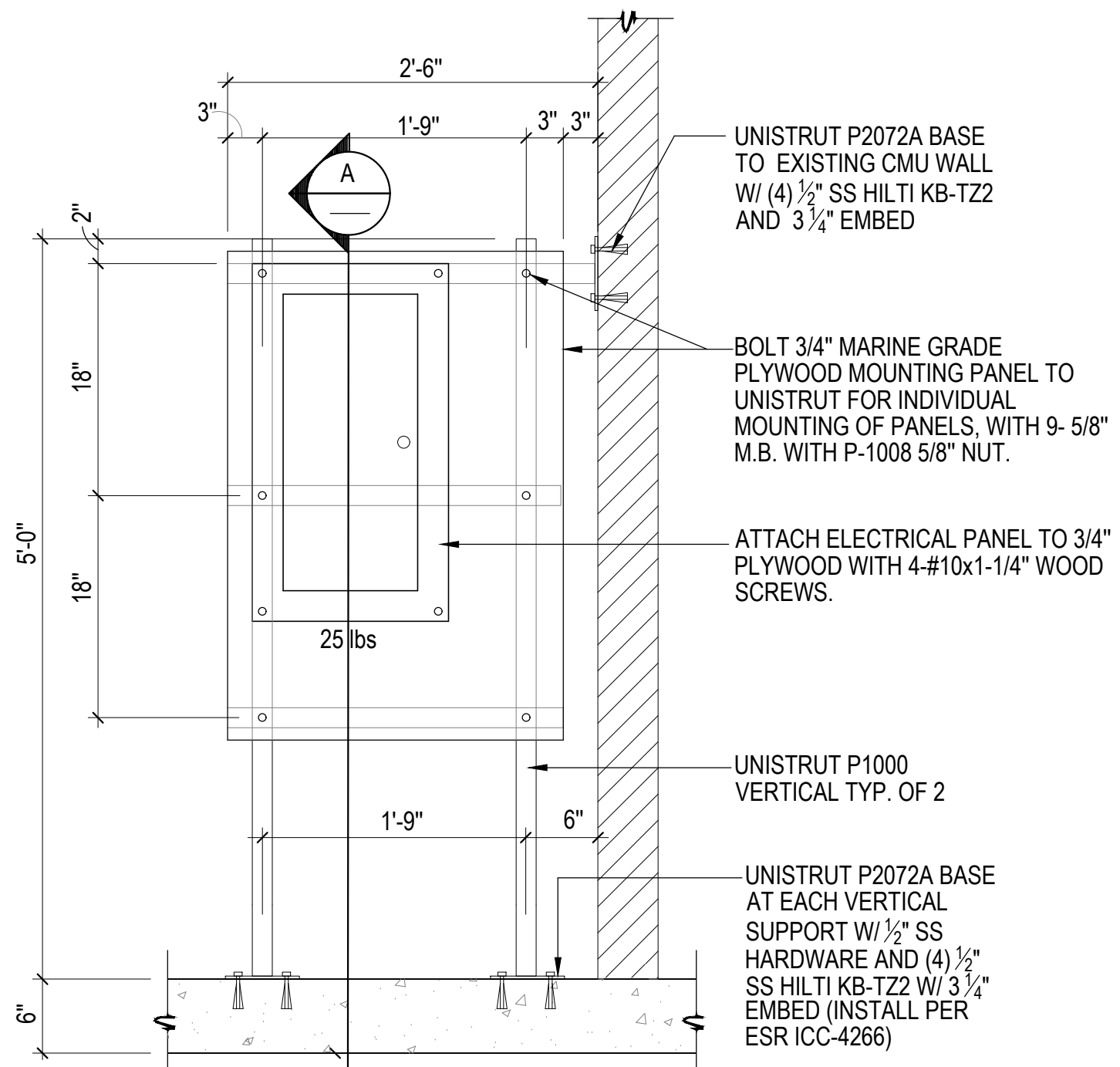
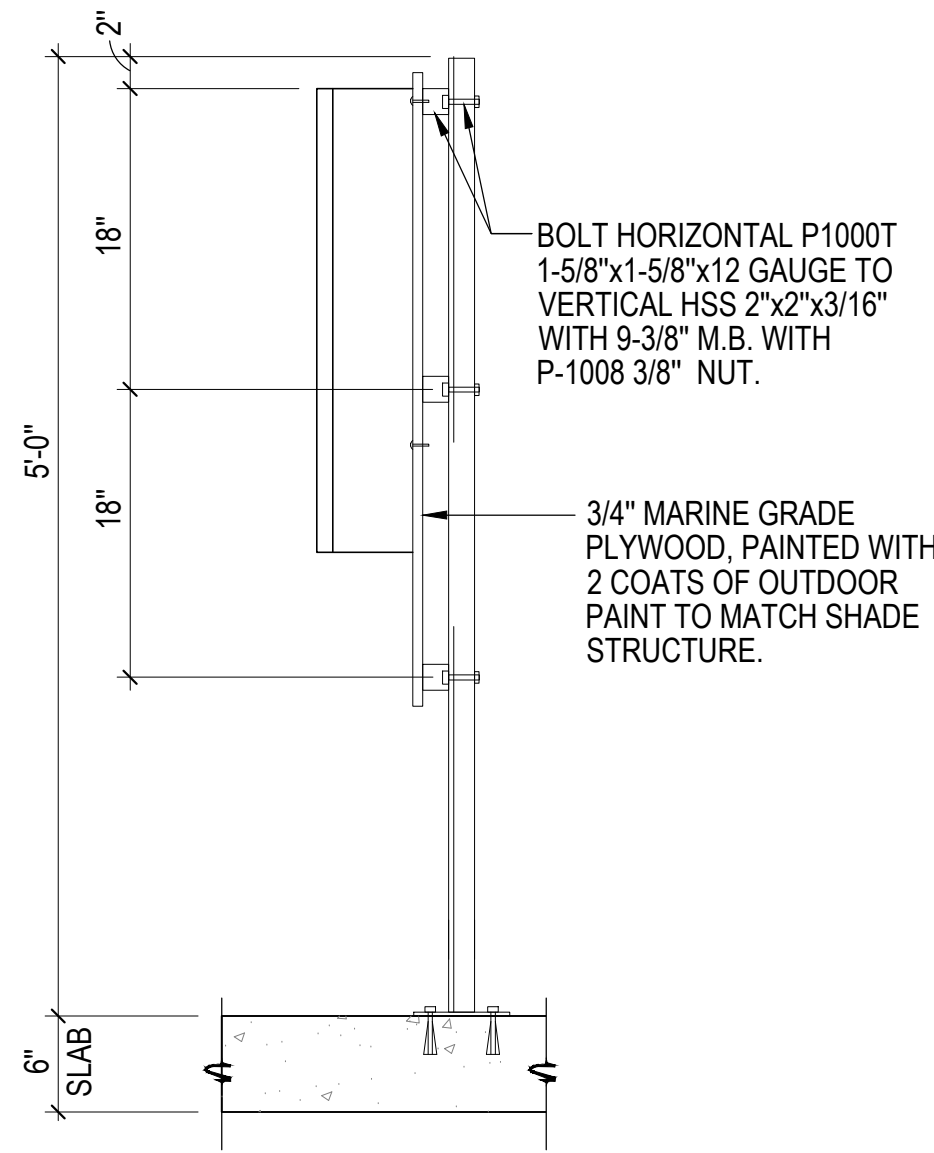
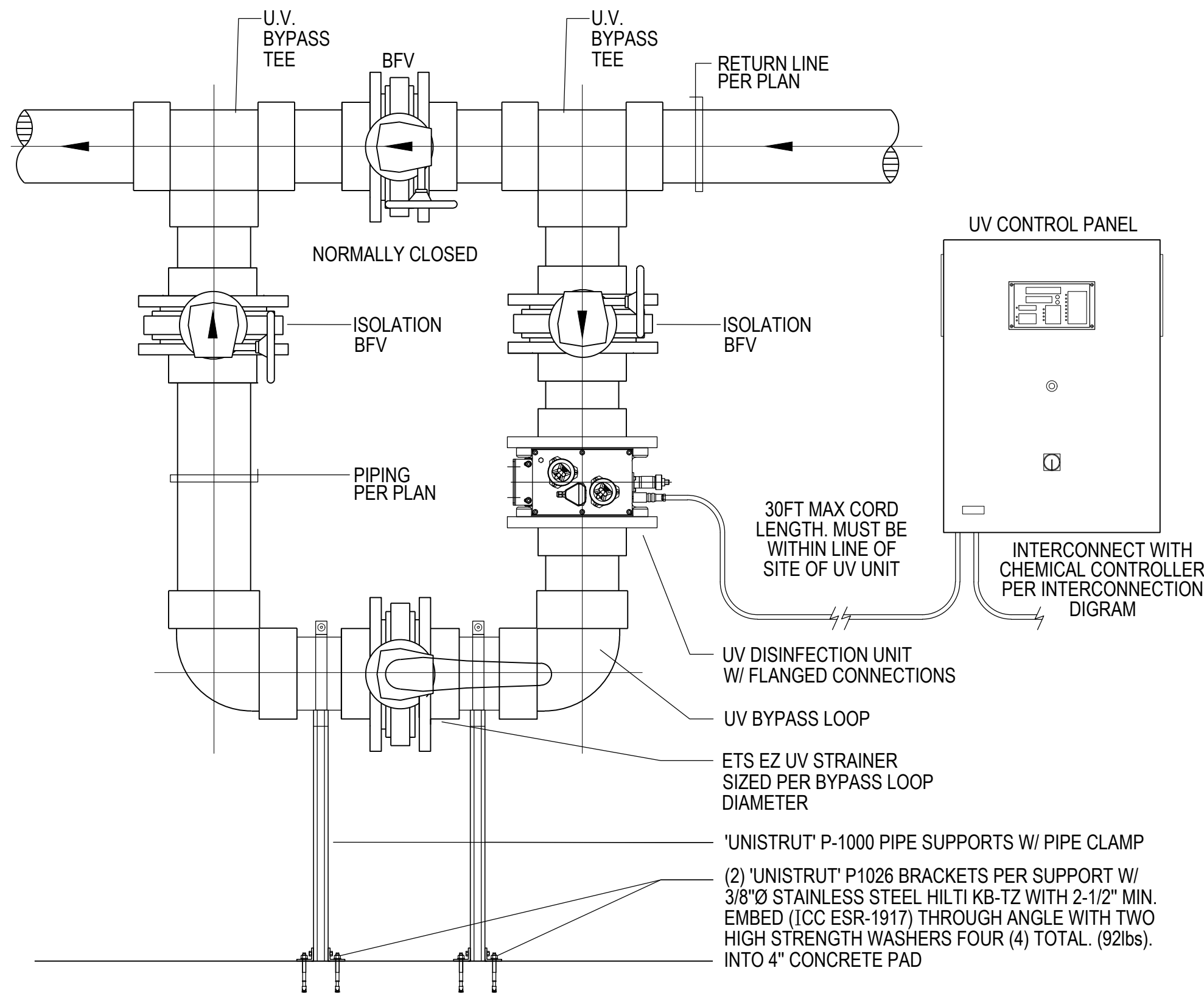
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1

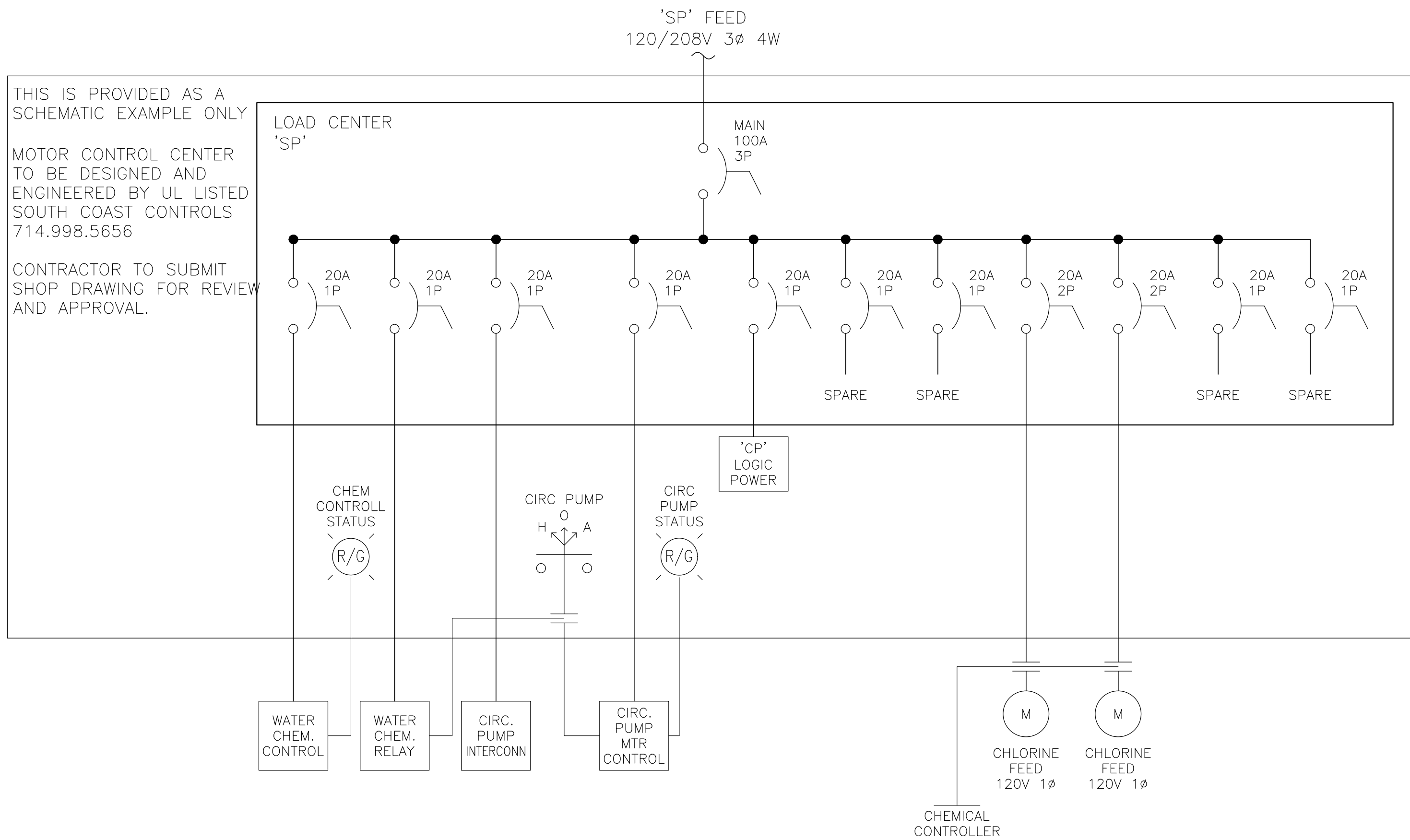
U.V. DISINFECTION UNIT INSTALLATION DETAIL

NO SCALE

2

UNISTRUT PANEL SUPPORT SYSTEM

1"=1'-0"



- NOTES: UNLESS OTHERWISE SPECIFIED.
1. CONTRACTOR SHALL PROVIDE SHOP DRAWING SUBMITTAL FOR REVIEW OF MOTOR CONTROL CENTER CONTAINING ALL ELECTRICAL RELAYS, TIMERS, LIGHTING CONTACTORS, INTERCONNECTIONS, DISCONNECTS AND ALL NECESSARY APPURTENANCES FOR A FULLY FUNCTIONAL ELECTRICAL SYSTEM. DETAIL DIAGRAM IS PROVIDED AS TEMPLATE EXAMPLE ONLY. SHOP DRAWINGS SHALL BE BASED ON PANEL SCHEDULE DESIGNS PROVIDED.
  2. CONTROL WIRES TO BE 16 AWG 600 VOLT, -25 °C TO 90 °C RATED STRANDED MTW.
  3. POWER AND MOTOR WIRING GAUGES REFER TO NEC OR APPLICABLE CHARTS USING 600 VOLT, -25 °C TO 90 °C RATED STRANDED MTW.
  4. FERRULE AND OR PROTECT ALL CONDUCTORS ACCORDINGLY.
  5. TAG ALL WIRE ENDS WITH APPROPRIATE IDENTIFICATION AND ORIENT FOR EASE OF CLARITY.
- WIRE COLORS: UNLESS OTHERWISE SPECIFIED
1. BLACK (blk) – ALL UNGROUNDED CONTROL CIRCUIT CONDUCTORS OPERATING AT THE SUPPLY VOLTAGE.
  2. RED (red) – UNGROUNDED AC CONTROL CIRCUITS OPERATING AT A VOLTAGE LESS THAN THE SUPPLY VOLTAGE.
  3. BLUE (blu) – UNGROUNDED DC CONTROL CIRCUITS.
  4. YELLOW (yel) OR ORANGE (org) – UNGROUNDED CONTROL CIRCUITS OR OTHER WIRING, SUCH AS FOR CABINET LIGHTING, THAT REMAIN ENERGIZED WHEN THE MAIN DISCONNECT IS IN THE "OFF"
  5. WHITE (wht) OR NATURAL GRAY (gry) – GROUNDED AC CURRENT CARRYING CONTROL CIRCUIT CONDUCTOR REGARDLESS OF VOLTAGE.
  6. WHITE WITH BLUE STRIPE (wht/blu) – GROUNDED DC CURRENT CARRYING CONTROL CIRCUIT CONDUCTOR.
  7. WHITE WITH YELLOW STRIPE (wht/yel)– GROUNDED AC CONTROL CIRCUIT CURRENT CARRYING CONDUCTOR THAT REMAINS ENERGIZED WHEN THE MAIN DISCONNECT SWITCH IS IN THE "OFF" POSITION.
  8. GREEN (grn) OR GREEN/YELLOW (grn/yel) – GROUND, PROTECTIVE EARTH.

3

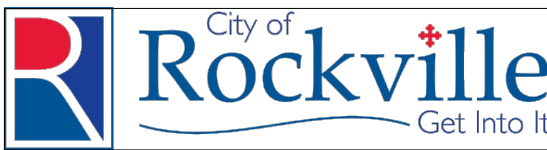
MOTOR CONTROL CENTER LINE DIAGRAM

NO SCALE

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

DETAILS

PERMIT SET  
NFC

1	65% CONSTRUCTION DOCUMENT 06/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	PERMIT SET 12/08/2023

No.	Description	Date
Revisions		
Project Number: 22.00036.00		
Scale: SEE PLAN		
Drawn By: AD, HW		
Checked By: AD		
Date: 5/19/2023		

Sheet No.

MR-10



ELECTRICAL SPECIFICATIONS

GENERAL CONDITIONS

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL CITY OF ROCKVILLE PERMITS NECESSARY TO COMPLETE THIS PROJECT.

ELECTRICAL SITE PLANS ARE DIAGRAMMATIC AND INDICATE GENERAL LOCATIONS OF ELECTRICAL EQUIPMENT. PROVIDE ALL EQUIPMENT SUCH AS CONNECTORS AND SUPPORTS WHICH ARE NOT SHOWN ON THE PLANS BUT ARE REQUIRED FOR A COMPLETE ELECTRICAL INSTALLATION. REFER TO CIVIL DRAWINGS FOR EQUIPMENT LOCATION AND INSTALLATION DETAILS.

CONCEAL ELECTRICAL WORK INSIDE FINISHED SPACES TO THE MAXIMUM EXTENT POSSIBLE. INSTALL ALL ELECTRICAL WORK PARALLEL TO BUILDING LINES.

COORDINATE WITH SHOP DRAWINGS OF OTHER TRADES REQUIRING ELECTRICAL CONNECTION TO DETERMINE LOCATIONS FOR ALL ELECTRICAL ROUGH-INS AND VERIFY THE ELECTRICAL CHARACTERISTICS. CONTACT THE CIVIL ENGINEER OF NOTED DISCREPANCIES BETWEEN THE SHOP DRAWING REQUIREMENTS AND THE ELECTRICAL DRAWINGS.

WHERE EXISTING EQUIPMENT, PIPING, CONDUIT, DUCTWORK, AND SIMILAR MATERIALS REQUIRE MOVING FOR INSTALLATION OF NEW WORK, REMOVE THESE ITEMS AS REQUIRED, AND RESTORE THEM TO ORIGINAL CONDITION.

REMOVE AND/OR RELOCATE EXISTING EQUIPMENT AS REQUIRED BY RENOVATIONS. RECONNECT DISTURBED FACILITIES AND PLACE IN OPERATING CONDITION. WHERE NEW CONSTRUCTION INTERFERES WITH EXISTING OUTLETS, REMOVE OUTLETS AND REPLACE WITH NEW. EXTEND EXISTING WIRING AS REQUIRED. REMOVE EXISTING CEILING MATERIALS WHERE REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. REPLACE UPON COMPLETION. REPLACE EXISTING MATERIAL DAMAGED AS A RESULT OF THESE ALTERATIONS, USING MATCHING MATERIAL. IN GENERAL, EXISTING SUSPENSION SYSTEM AND ACUSTICAL PANELS WILL REMAIN IN PLACE DURING CONSTRUCTION. REMOVE MATERIALS WHERE NECESSARY FOR EXECUTION OF WORK, AND REINSTALL UPON COMPLETION. REPLACE MATERIALS DAMAGED IN THE PROCESS.

PROVIDE ALL DEVICES, ANCHORS, AND FASTENERS TO SUPPORT EQUIPMENT AND ELECTRICAL RACEWAY LOADS. SUPPORT ALL MATERIAL FROM BUILDING STRUCTURAL SYSTEM. DO NOT SUPPORT MATERIAL FROM DUCTWORK, PIPING, OR CONDUIT. DO NOT SUPPORT ELECTRICAL EQUIPMENT FROM CEILING SUSPENSION SYSTEM WIRES. PROVIDE DEDICATED SUPPORT MEMBERS.

GROUNDING AND BONDING  
PROVIDE RELIABLE, LOW IMPEDANCE, METALLIC, PATH FOR SHORT CIRCUIT AND GROUND CURRENTS SO THAT CIRCUIT PROTECTIVE DEVICES CAN OPERATE QUICKLY AND EFFECTIVELY. VERIFY THAT METALLIC BONDING IS CONTINUOUS FROM SERVICE ENTRANCE EQUIPMENT, THROUGH DISTRIBUTION SYSTEM, TO EACH OUTLET. PROVIDE A DEDICATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL FEEDERS AND BRANCH CIRCUITS.

WIRING METHODS  
CONDUCTORS

- STANDARDS: NEC ARTICLE 310
- SPECIFICATION: COPPER #14 AWG SMALLEST SIZE FOR POWER WIRING, SINGLE STRAND FOR #12 AND #10 AWG AND MULTIPLE STRANDS FOR #8 AWG OR LARGER
- INSULATION: 600V, XHHN/XHHW-2
- AMPACITY: SIZES #14 AWG TO #1 AWG BASED UPON NEC TABLE 310.16, CU CONDUCTORS, 60 DEG INSULATION AND SIZES #10 AND LARGER BASED UPON NEC TABLE 310.16, CU CONDUCTORS, 75 DEG INSULATION
- METHODS: FOR ALL 120V CIRCUITS THAT EXCEED 100 FEET, INCREASE TO THE NEXT WIRE SIZE TO REDUCE VOLTAGE DROP
- INSTALL BRANCH CIRCUITS IN RACEWAY. DO NOT INSTALL MORE THAN THREE SINGLE PHASE CIRCUITS IN ONE RACEWAY. PROVIDE A GROUNDED CONDUCTOR FOR EACH CIRCUIT. PROVIDE AT LEAST ONE EQUIPMENT GROUNDING CONDUCTOR FOR EACH RACEWAY. PULL ALL CONDUCTORS INTO A RACEWAY AT ONE TIME USING LISTED WIRE PULLING LUBRICANT.

PVC CONDUIT

REFERENCES

- UL 651 SAFETY STANDARD- SCHEDULE 40, 80, TYPE EB AND A RIGID PVC CONDUIT AND FITTINGS
- NEMA TC-2 ELECTRICAL POLYVINYL CHLORIDE (PVC) CONDUIT
- NEMA TC-3 POLYVINYL CHLORIDE (PVC) FITTINGS FOR USE WITH RIGID PVC CONDUIT AND TUBING
- NFPA 70 - NATIONAL ELECTRICAL CODE
- NECA NEIS 111 - NATIONAL ELECTRICAL INSTALLATION STANDARD FOR INSTALLING NONMETALLIC RACEWAYS

QUALITY ASSURANCE

- SCHEDULE 40 AND SCHEDULE 80 PVC CONDUIT AND FITTINGS SHALL BE LISTED TO UL 651 AND MANUFACTURED IN ACCORDANCE WITH NEMA TC-2 (CONDUIT) AND NEMA TC-3 (FITTINGS).
- ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHIN ONE YEAR OF MANUFACTURE, COMPLYING WITH THE LATEST CODES AND STANDARDS, NO USED, RE-BUILT, REFURBISHED AND/OR RE-MANUFACTURED ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE FURNISHED ON THIS PROJECT.
- TESTING AGENCY QUALIFICATIONS: TESTING/LISTING AGENCY SHALL BE ONE OF THE FOLLOWING NATIONALLY RECOGNIZED TESTING LABORATORIES:
  - UNDERWRITERS LABORATORIES (UL)
  - INTERTEK TESTING SERVICES (ETL)
  - NSF INTERNATIONAL
- STORAGE: WHENEVER POSSIBLE, STORE THE CONDUIT INDOORS TO PREVENT POSSIBLE DISCOLORATION, THE ACCUMULATION OF DIRT AND TO EXTEND THE LIFE OF THE PRODUCT. IF CONDUIT IS STORED OUTDOORS, IT SHALL BE STORED IN SUCH A WAY AS TO ALLOW AIR CIRCULATION AND WATER DRAIN-OFF AND SHALL NOT BE DIRECTLY COVERED WITH PLASTIC.
- SCHEDULE 40 AND SCHEDULE 80 PVC CONDUIT SHALL BE LISTED TO UL 651 FOR USE OUTDOORS AND WHERE EXPOSED TO DIRECT SUNLIGHT.

PRODUCTS  
MANUFACTURERS

- ALLIED TUBE & CONDUIT, 16100 S. LATHROP AVE, HARVEY, IL 60426, WWW.ALLIEDEG.COM
- HERITAGE PLASTICS
- RIDGELINE PLASTICS

SCHEDULE 40 AND SCHEDULE 80 PVC CONDUIT

- PVC CONDUIT SHALL BE AVAILABLE IN TRADE SIZES 1/2" TO 6".
- PVC CONDUIT SHALL BE LISTED TO UL 651 AND MANUFACTURED IN ACCORDANCE WITH NEMA TC-2.
- PVC CONDUIT SHALL BE LABELED OR MARKED SHOWING EVIDENCE OF THIRD-PARTY LISTING TO PRODUCT STANDARD.
- PVC CONDUIT SHALL BE LISTED AS SUNLIGHT RESISTANT.
- PVC CONDUIT SHALL BE LISTED FOR USE WITH 90 DEG C CONDUCTORS.

INTEGRAL COUPLINGS

- INTEGRAL COUPLINGS SHALL BE LISTED TO UL 651 AND MANUFACTURED IN ACCORDANCE WITH NEMA TC-2.

ELBOWS

- ELBOWS SHALL BE LISTED TO UL 651 AND MANUFACTURED IN ACCORDANCE WITH NEMA TC-3.
- FITTINGS, INCLUDING FABRICATED FITTINGS, JUNCTION-BOX ADAPTERS, EXPANSION JOINTS, THREADED ADAPTERS AND SERVICE ENTRANCE HEADS SHALL BE LISTED TO UL 651 AND MANUFACTURED IN ACCORDANCE WITH NEMA TC-3. B. FITTINGS FOR USE IN WET LOCATIONS SHALL BE LISTED FOR USE IN WET-LOCATIONS.

INSTALLATION

- SCHEDULE 40 AND SCHEDULE 80 PVC CONDUIT, ELBOWS AND FITTINGS SHALL BE INSTALLED IN COMPLIANCE WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE

CODES AND STANDARDS AS INDICATED ELSEWHERE IN THESE SPECIFICATIONS.

- SCHEDULE 40 AND SCHEDULE 80 PVC CONDUIT, ELBOWS AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH NECA NATIONAL ELECTRICAL INSTALLATION STANDARD (NEIS) 111, STANDARD FOR INSTALLING NONMETALLIC RACEWAYS.
- SCHEDULE 40 PVC CONDUIT SHALL BE ACCEPTABLE WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
- SCHEDULE 80 PVC CONDUIT SHALL BE ACCEPTABLE WHERE SUBJECT TO PHYSICAL DAMAGE.

WIRING DEVICES  
CONVENIENCE RECEPTACLES

- MANUFACTURER: PASS&SEYMOUR, 20 AMP, 125V HEAVY-DUTY, NEMA 5-20R, CONVENIENCE RECEPTACLE OR EQUIVALENT
- STANDARDS: NEC ARTICLE 406; FSUL WCS96; UL498; NEMA WD-1 AND WD-6
- COLOR: WHITE OR BY ARCHITECT.

GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RECEPTACLES

- MANUFACTURER: PASS&SEYMOUR, SPECIFICATION GRADE, NEMA 5-20R, GROUND FAULT CIRCUIT INTERRUPTER, CONVENIENCE RECEPTACLE OR EQUIVALENT
- STANDARDS: NEC ARTICLE 406; FSUL WCS96; UL498 C22.2 NO. 42; NEMA WD-1 AND WD-6
- COLOR: WHITE OR BY ARCHITECT.

DEVICE PLATES

- MANUFACTURER: SAME AS WIRING DEVICE MANUFACTURER
- MATERIAL: STAINLESS STEEL OR HIGH ABUSE REINFORCED NYLON. COLOR BY OWNER
- GANGING: AS INDICATED BY NUMBER OF DEVICES
- WEATHERPROOF: GASKETTED, CAST ALUMINUM, SPRING-LOADED LIFT COVER PLATE. IN-USE COVER PLATE AS REQUIRED.

WIRING DEVICE METHODS

- PROVIDE A 4 INCH SQUARE OUTLET BOX FOR EACH OUTLET SHOWN IN THE WIRING SYSTEM.
- PROVIDE INTERIOR PARTITIONS WHERE REQUIRED. USE CAST IRON, CORROSION-RESISTANT BOX WITH THREADED HUBS FOR EXTERIOR OUTLETS; WET AND DAMP AREAS. PROVIDE OTHER BOXES AS REQUIRED. INSTALL BOXES SQUARE WITH BUILDING LINES AND FASTEN SECURELY IN PLACE. GROUT OR PATCH PLASTER IF MASONRY OR GYPSUM BOARD DOES NOT FIT SNUGLY ON ALL SIDES OF BOXES.

- USE SECTIONAL BOXES WITH APPROPRIATE CABLE CLAMPS FOR CABLE WIRING. PROVIDE GREEN GROUNDING SCREW FOR CONNECTION TO GROUND WIRES
- SUPPORT BOXES FROM BUILDING CONSTRUCTION INDEPENDENTLY OF CONDUIT
- INSTALL WALL SWITCHES AND OCCUPANCY SENSOR WALL SWITCHES 48 INCHES ABOVE FLOOR, OFF POSITION DOWN, UNLESS INDICATED OTHERWISE.
- INSTALL CONVENIENCE RECEPTACLES 18 INCHES ABOVE FLOOR AND 4 INCHES ABOVE COUNTERS; GROUNDING POLE ON TOP.

AUDIO VISUAL CONSULTANT - PUBLIC ADDRESS SYSTEM

CONTRACTOR TO COORDINATE AND PROVIDE A COMPLETE TURNKEY EMERGENCY COMMUNICATION, SPEECH REINFORCEMENT PUBLIC ADDRESS SYSTEM.

BASIS OF DESIGN:

BROOKS WHITEFORD  
WHITEFORD SYSTEMS  
PO BOX 381  
ST. LEONARD, MD 20685  
PHONE: (410) 999-6441 x201

CABLE REQUIREMENTS  
EACH MUSCO POLE WILL HAVE TWO SPEAKERS MOUNTED TO IT, WITH A SINGLE HOME-RUN SPEAKER CABLE FEEDING EACH POLE. A TOTAL OF 8 SPEAKER CABLES WILL LAND AT THE BATH HOUSE BUILDING, ONE FROM EACH POLE. THE SYSTEM WILL REQUIRE 12/2 SPEAKER CABLE TO LAND AT EACH POLE.

EQUIPMENT RECOMMENDATION  
FOR THIS APPLICATION, A COMMUNITY R5 SERIES WITH TRANSFORMERS INSTALLED AND APPROPRIATE BEAMWIDTHS SELECTED. THE SYSTEM WILL OPERATE AT 100V AS CONFIGURED BY AMPLIFIERS THAT WILL BE LOCATED IN AN EQUIPMENT RACK INSIDE THE BATH HOUSE OFFICES. REVIEW RACK LOCATION WITH CITY OF ROCKVILLE POOL PERSONNEL. THE SYSTEM WILL REQUIRE APPROPRIATE AMPLIFIERS, DIGITAL SIGNAL PROCESSING AND INTEGRATION WITH APPROPRIATE MEANS FOR TRIGGERING EMERGENCY NOTIFICATIONS (TELEPHONE, MICROPHONE SYSTEMS, ETC.).

PROVIDE THE FOLLOWING BIDS -

BASE CONTRACT - PROVIDE PUBLIC ADDRESS FOR THE UPPER AND LOWER DECKS INCLUDING COMMUNITY R5 SERIES AND ASSOCIATED EQUIPMENT. SPEAKERS AND WIRING FOR MUSCO LIGHT POLES P5, P6,P7, P8. POLES P5 AND P6 TO PROVIDE AUDIO FOR LOW DECK FITNESS POOL.

ADD ALTERNATE 5 - PROVIDE SPEAKERS AND WIRING FOR MUSCO LIGHT POLES P1, P2, P3, AND P4. PROVIDE ADDITIONAL AMPLIFIERS AND ASSOCIATED EQUIPMENT FOR THE FOUR ADDITIONAL POLES.

POOL BONDING INSPECTIONS AND CERTIFICATIONS

PROVIDE BONDING INSPECTIONS AND CERTIFICATIONS FOR THE SLIDE TOWER (SL-1), SWIMMING POOL (SP-1), ACTIVITY POOL (AP-1), AND ALL OTHER ASSOCIATED EQUIPMENT. REVIEW AQUATIC DESIGN GROUP DRAWINGS TO IDENTIFY ALL BONDING INSPECTION LOCATIONS. BONDING AND INSPECTIONS TO BE CONDUCTED BY LICENSED ELECTRICAL CONTRACTOR AND/OR LICENSED ENGINEER. INSPECTIONS AND CERTIFICATIONS TO BE CONDUCTED PRIOR TO EACH AHJ PERMIT INSPECTION. PROVIDE NOTICE WITHIN 24 HOURS AFTER INSPECTIONS OF CERTIFICATION FAILURE WITH RECOMMENDATIONS TO CORRECT BONDING FAILURE(S). PROVIDE FINAL REPORTS WITHIN SEVEN DAYS AFTER EACH INSPECTION TO OWNER AND ARCHITECT.

OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT

INSTALL AND PROVIDE START-UP FOR THE FOLLOWING EQUIPMENT.

- MAIN DISTRIBUTION PANEL SNACK BAR MDP
- DISTRIBUTION PANEL PE
- PANELBOARD PE1
- SURGE PROTECTION DEVICE (SPD) FOR BATHOUSE MAIN DISTRIBUTION PANEL

LIGHTING SYMBOLS

LIGHT FIXTURE KEY - SEE ARCHITECTS DRAWINGS FOR TYPE AND MOUNTING HEIGHTS. LOWERCASE LETTER INDICATES SWITCHING. PE-20 INDICATES CIRCUITING. PROVIDE INDEPENDENT MOUNTING TO STRUCTURE FOR EACH LUMINAIRE. SEE DETAIL THIS DRAWING. EM - EMERGENCY BATTERY BACKUP

EMERGENCY LIGHT UNIT (ELU) WITH BATTERY BALLAST. SEE LIGHTING FIXTURE SCHEDULE. 1-20 INDICATES PANEL CIRCUIT NUMBER.

EXISTING 1X4 SURFACE MOUNTED FLUORESCENT FIXTURE WITH TWO LED T8 LAMPS

MUSCO LIGHT POLE WITH LED LIGHT FIXTURES

SWITCH - SINGLE POLE UNLESS NOTED OTHERWISE. MOUNTED 48" ABOVE FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE UNLESS NOTED OTHERWISE.

a - LOWER CASE LETTER INDICATES SWITCHING AND 0-10V DIMMING DESIGNATION

THREE WAY SWITCH, FOUR WAY SWITCH

LINE VOLTAGE WALL MOUNTED PROGRAMMABLE TIMER SWITCH, ON/OFF SWITCH. AUTOMATICALLY TURNS OFF LIGHTS AFTER A PRESET TIME. LEGRAND WATTSTOPPER TS-400 OR EQUIVALENT

ABBREVIATIONS

EM - EMERGENCY  
EX - EXISTING TO REMAIN  
GFI/GFCI - GROUND FAULT INTERRUPTER / GROUND FAULT CIRCUIT INTERRUPTER  
LV - LOW VOLTAGE  
REF - REFRIGERATOR  
REX - RELOCATE EXISTING/RELOCATED EXISTING  
TR - TAMPER RESISTANT  
UC - UNDERCOUNTER LIGHTS  
WP - WEATHERPROOF  
X - EXISTING TO BE REMOVED

ELECTRICAL SYMBOLS

208Y/120V, 3-PHASE, 4-WIRE PANELBOARD OR DISTRIBUTION BOARD. 3HA DESIGNATES PANEL NAME.

MAIN DISTRIBUTION PANEL. 208Y/120V, SERVICE ENTRANCE RATED. SEE RISER DIAGRAMS FOR MORE INFORMATION  
OWNER FURNISHED, CONTRACTOR INSTALLED - SNACK BAR MDP  
OWNER FURNISHED, CONTRACTOR INSTALLED - DISTRIBUTION PANEL PE  
OWNER FURNISHED, CONTRACTOR INSTALLED - BATH HOUSE SURGE PROTECTION DEVICE (SPD)

PANELBOARD SURGE PROTECTION DEVICE

UNDERGROUND PVC SCHEDULE 40 CONDUIT. INSTALL PER NEC 300.5 REQUIREMENTS.  
P1 - LIGHT POLE  
3 #10 - QUANTITY AND SIZE OF PHASE CONDUCTORS  
1 #10 N - QUANTITY AND SIZE OF NEUTRAL CONDUCTORS  
1 #10 EGC - QUANTITY AND SIZE OF EQUIPMENT GROUNDING CONDUCTORS  
1-1/4" C - INDICATES SIZE OF CONDUIT

UNDERGROUND PVC SCHEDULE 40 CONDUIT FOR LOUDSPEAKER WIRING. INSTALL PER NEC 300.5 REQUIREMENTS.

HUBBELL QUAZITE POLYMER CONCRETE ENCLOSURES MEET OR EXCEED TEST PROVISIONS OF ANSI/SCTE 77 2017. PG STYLE, TIER 15, 18 INCHES DEEP, OPEN BOTTOM  
HH1118 - HUBBELL QUAZITE PG1118BA18 OR EQUIVALENT

EXISTING UNDERGROUND CONDUIT SHOWN FOR REFERENCE ONLY. PREVIOUS ENGINEERING DRAWINGS INDICATED UNDERGROUND CONDUIT AT THESE LOCATIONS. COORDINATE LOCATIONS WITH DEMOLITION OF SITE LIGHTING. EXISTING CONDUIT MAY BE REUSED.

DUPLEX GROUND FAULT CIRCUIT INTERRUPTER CONVENIENCE RECEPTACLE. 125V, 15 OR 20 AMP, GROUNDING TYPE, TAMPER RESISTANT. NEMA 5-15R OR 5-20R. MOUNTED 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. PE-14 INDICATES PANEL CIRCUITING.

JUNCTION BOX

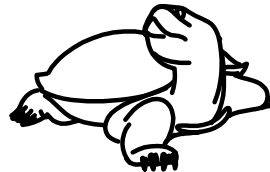
SAFETY SWITCH DISCONNECT - HEAVY DUTY 600V OR 250V, HORSE POWER RATED FOR MOTOR LOADS.  
AA/C - AA DISCONNECT AMPACITY / C POLES  
NEMA TYPE 4X, IP67, NON-METALLIC ENCLOSURE  
HUBBELL CIRCUIT-LOCK DISCONNECT OR APPROVED EQUAL

FUSED SAFETY SWITCH DISCONNECT - HEAVY DUTY 600V OR 250V, HORSE POWER RATED FOR MOTOR LOADS.  
AA/BB/C - AA DISCONNECT AMPACITY / BB FUSE SIZE / C POLES  
NEMA TYPE 4X, IP67, NON-METALLIC ENCLOSURE  
HUBBELL CIRCUIT-LOCK DISCONNECT OR APPROVED EQUAL

MOTOR CONNECTION  
EF - EXHAUST FAN, 120V, 1 PHASE, LESS THAN 100W

LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



DIAMONDBACK  
ENGINEERING LLC

9501 Foxlair Place  
Gaithersburg, MD 20882  
T: 301.717.1353



PROFESSIONAL  
CERTIFICATION:

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 27084

EXPIRATION DATE: 01/30/2026

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

SPECIFICATIONS AND SYMBOLS

BID SET

1	65% CONSTRUCTION DOCUMENT 04/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
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Revisions

Project Number:	22.00036.00
Scale:	
Drawn By:	AD, HW
Checked By:	AD
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Sheet No.

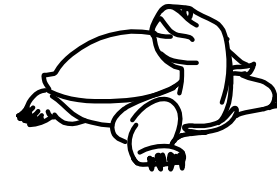
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BID SET 02/23/2024



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DEMOLITION SITE  
PLAN

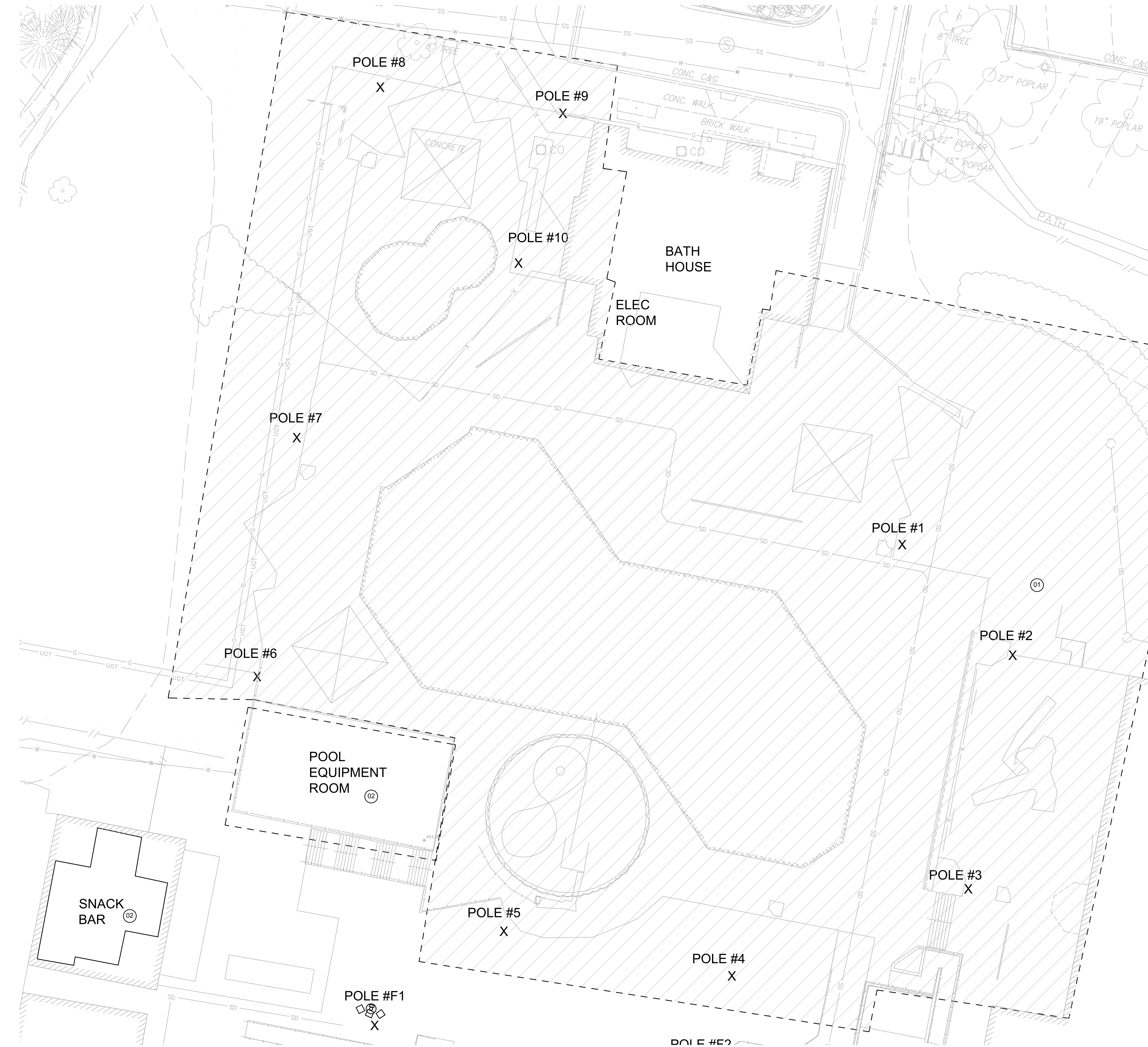
BID SET

GENERAL NOTES:

- A. DEMOLITION INCLUDES THE REMOVAL OF LIGHT POLES, RECEPTACLES, ELECTRIC DEVICES, JUNCTION BOXES, TEL / DATA / TV OUTLETS AND THEIR ASSOCIATED CONDUIT, UNDERGROUND CONDUIT, WIRING, AND CABLING BACK TO THEIR SOURCE PANEL.  
X - DEMOLISH LIGHT FIXTURE  
EX - EXISTING TO REMAIN  
REX - RELOCATE / RELOCATED EXISTING
- B. BACKGROUNDS ARE FROM 1990 ENGINEERING DRAWINGS THAT INSTALLED UPPER DECK LIGHTING, POOLS, AND SLIDE. HATCHED AREA REPRESENTS THE AREA OF DEMOLITION. ALL ELECTRICAL EQUIPMENT WITHIN THE HATCHED AREA IS WIRED BACK TO THE BATHHOUSE ELECTRIC ROOM PANELS A, B, C, AND D. TRACE ALL BRANCH CIRCUITS PRIOR TO DEMOLITION.
- C. DEMOLISH POLE LIGHTS AND ASSOCIATED RECEPTACLES. DEMOLISH PA SYSTEM FROM SPEAKER HORNS BACK TO THE BATHHOUSE.
- D. UPDATE PANEL A, B, C, AND D, PANEL DIRECTORIES AFTER COMPLETION OF ALL WORK.
- E. SEE DWGS L601, L602, L603 FOR LIGHTING SYSTEM DETAILS AND ASSOCIATED POLE DETAILS.

SHEET NOTES:

- (01) DEMOLISH ALL BRANCH CIRCUITS SERVING SHED.
- (02) POOL EQUIPMENT ROOM POWERED FROM SNACK BAR PANELS MDP, PG, P, AND SB. TRACE, IDENTIFY, AND DEMOLISH ALL BRANCH CIRCUITS SERVING THE POOL EQUIPMENT ROOM.

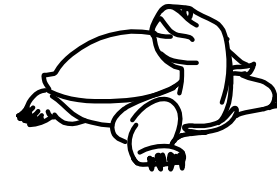


1 ELECTRICAL DEMOLITION SITE PLAN  
1/16" = 1'-0"



LSG LANDSCAPE  
ARCHITECTURE

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RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

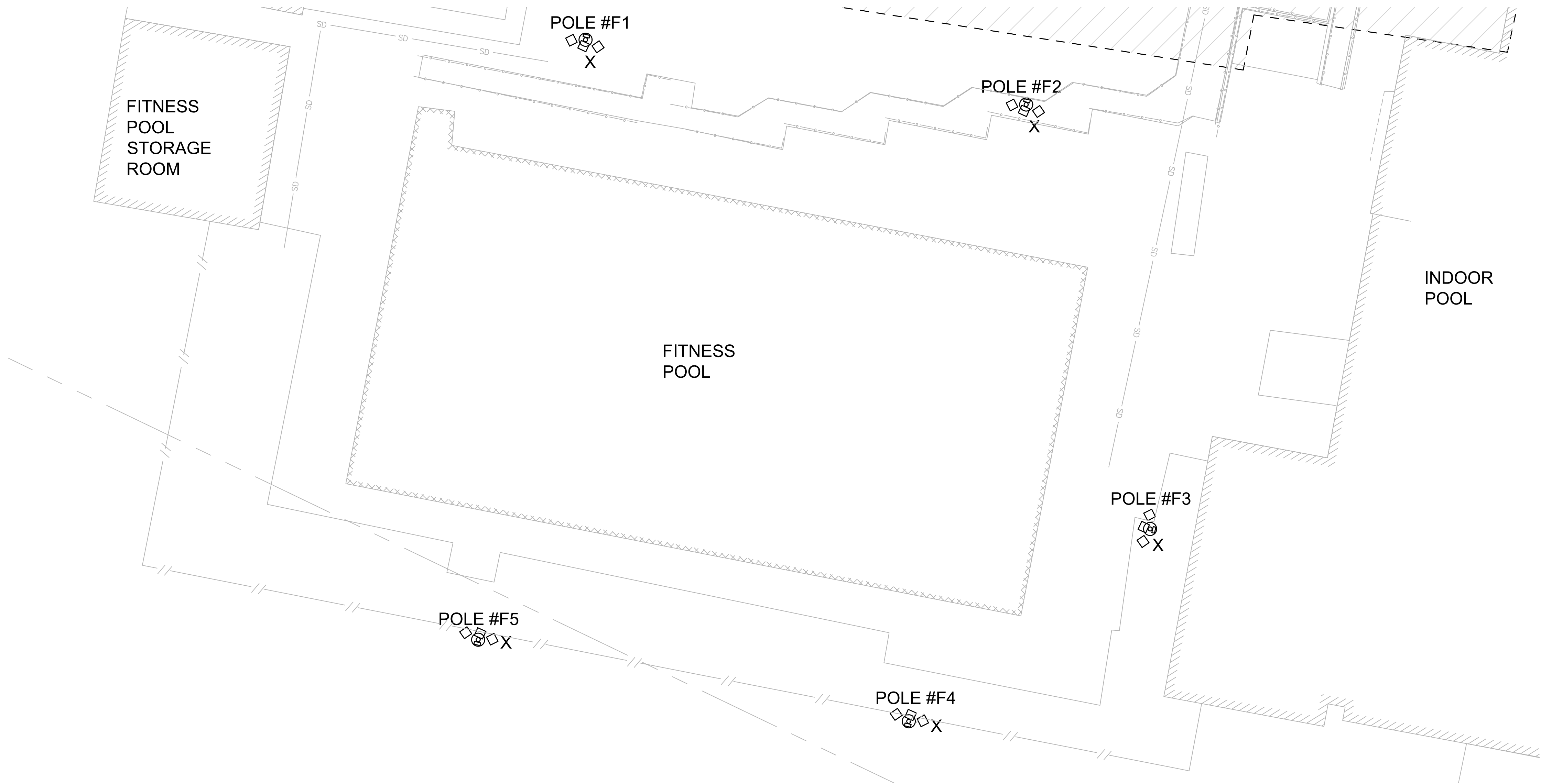
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CITY OF ROCKVILLE, MARYLAND

DEMOLITION SITE  
PLAN

BID SET

GENERAL NOTES:

- A. DEMOLITION INCLUDES THE REMOVAL OF LIGHT POLES, RECEPTACLES, ELECTRIC DEVICES, JUNCTION BOXES, TEL / DATA / TV OUTLETS AND THEIR ASSOCIATED CONDUIT, UNDERGROUND CONDUIT, WIRING, AND CABLING BACK TO THEIR SOURCE PANEL.  
X - DEMOLISH LIGHT FIXTURE  
EX - EXISTING TO REMAIN  
REX - RELOCATE / RELOCATED EXISTING
- B. FITNESS POOL POLE LIGHTS ARE WIRED BACK TO THE CONTROL PANEL IN THE FITNESS POOL EQUIPMENT ROOM. DEMOLISH POLE LIGHTS AND ASSOCIATED RECEPTACLES AND PA SYSTEM.

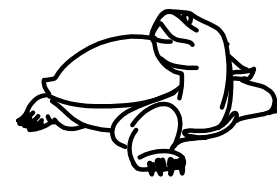


1 ELECTRICAL DEMOLITION SITE PLAN - ADD ALTERNATE 5 DEMOLITION OF FIVE FITNESS POOL LIGHT POLES  
1/16" = 1'-0"



LSG LANDSCAPE  
ARCHITECTURE

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EXPIRATION DATE:

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ROCKVILLE SWIM  
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ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

SITE PLAN

BID SET

GENERAL NOTES:

- PROVIDE PVC SCHEDULE 40 FOR ALL UNDERGROUND CONDUITS.
- TRANSITION TO RIGID METAL CONDUIT FOR UNDERGROUND CONDUIT TURNING UP ABOVE GROUND AND RUNNING EXPOSED, SURFACE MOUNTED.
- PROVIDE CONDUIT SEALS FOR ALL CONDUIT ENTERING INSIDE BUILDINGS.
- SEE DWGS L601, L602, L603 FOR LIGHTING SYSTEM DETAILS AND ASSOCIATED POLE DETAILS.

SHEET NOTES:

- POLES AND BASES FURNISHED AND INSTALLED BY MUSCO. PROVIDE CONDUIT AND WIRING INDICATED TO 3-POLE, 30-AMP CONTACTOR IN MUSCO CONTROL PANEL IN BATH HOUSE ELECTRIC ROOM.
- FURNISH AND INSTALL GFCI RECEPTACLES IN LIGHTING POLE JUNCTION BOX.
- FOR BASE CONTRACT, PROVIDE 2" PVC SCHEDULE 40 AUDIO CONDUIT TO HAND HOLE. PROVIDE PULL STRING FROM HAND HOLE TO LIGHT POLE P5.
- TYPE L2 - WALL MOUNTED LED FIXTURE. SEE LANDSCAPE DRAWINGS L320 AND L603 FOR MORE INFORMATION. WIRE LIGHTS FIXTURES TO BATH HOUSE PANEL B THROUGH NORTH SHORE SAFETY 30 AMP PERMANENT GFCI AND TIME CLOCK.

1	65% CONSTRUCTION DOCUMENT 04/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
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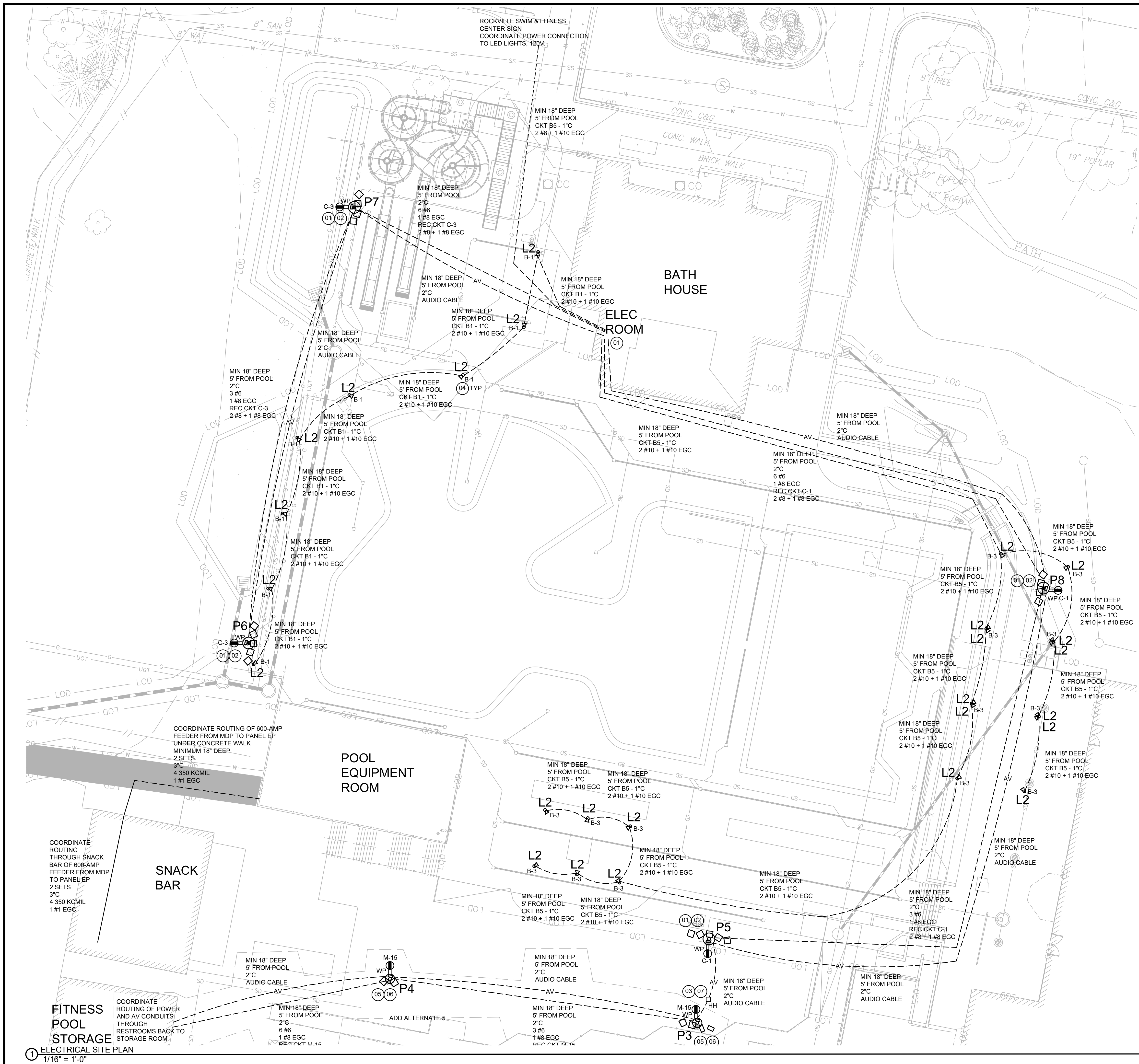
No.	Description	Date
Revisions		

Project Number: 22.00036.00  
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Date: 5/19/2023

Sheet No.

E004

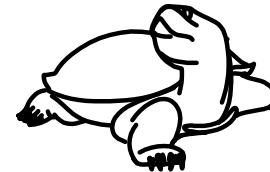
BID SET 02/23/2024





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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

SITE PLAN

BID SET

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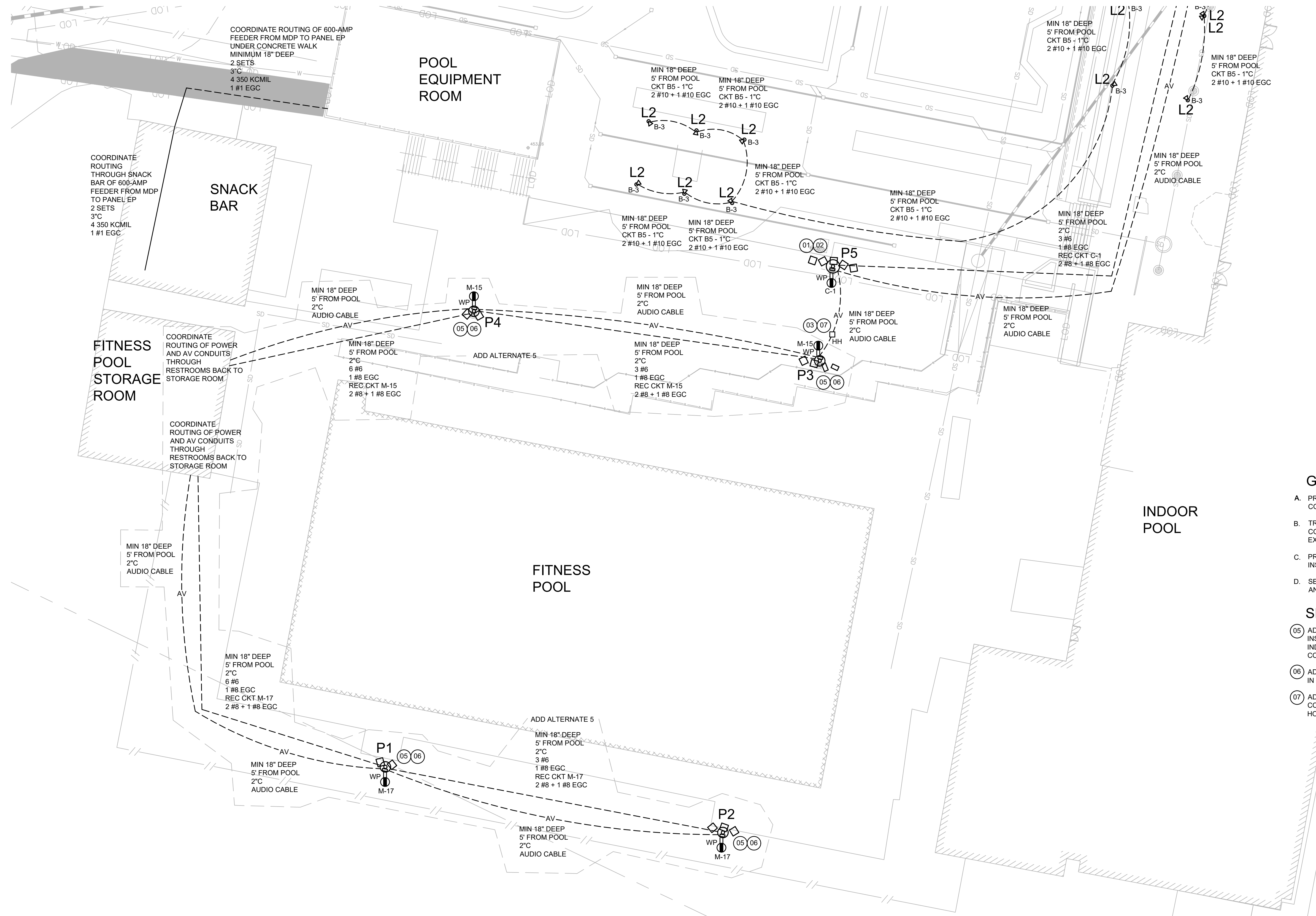
No.	Description	Date
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Project Number: 22.00036.00  
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Checked By: AD  
Date: 5/19/2023

Sheet No.

E005

BID SET 02/23/2024



GENERAL NOTES:

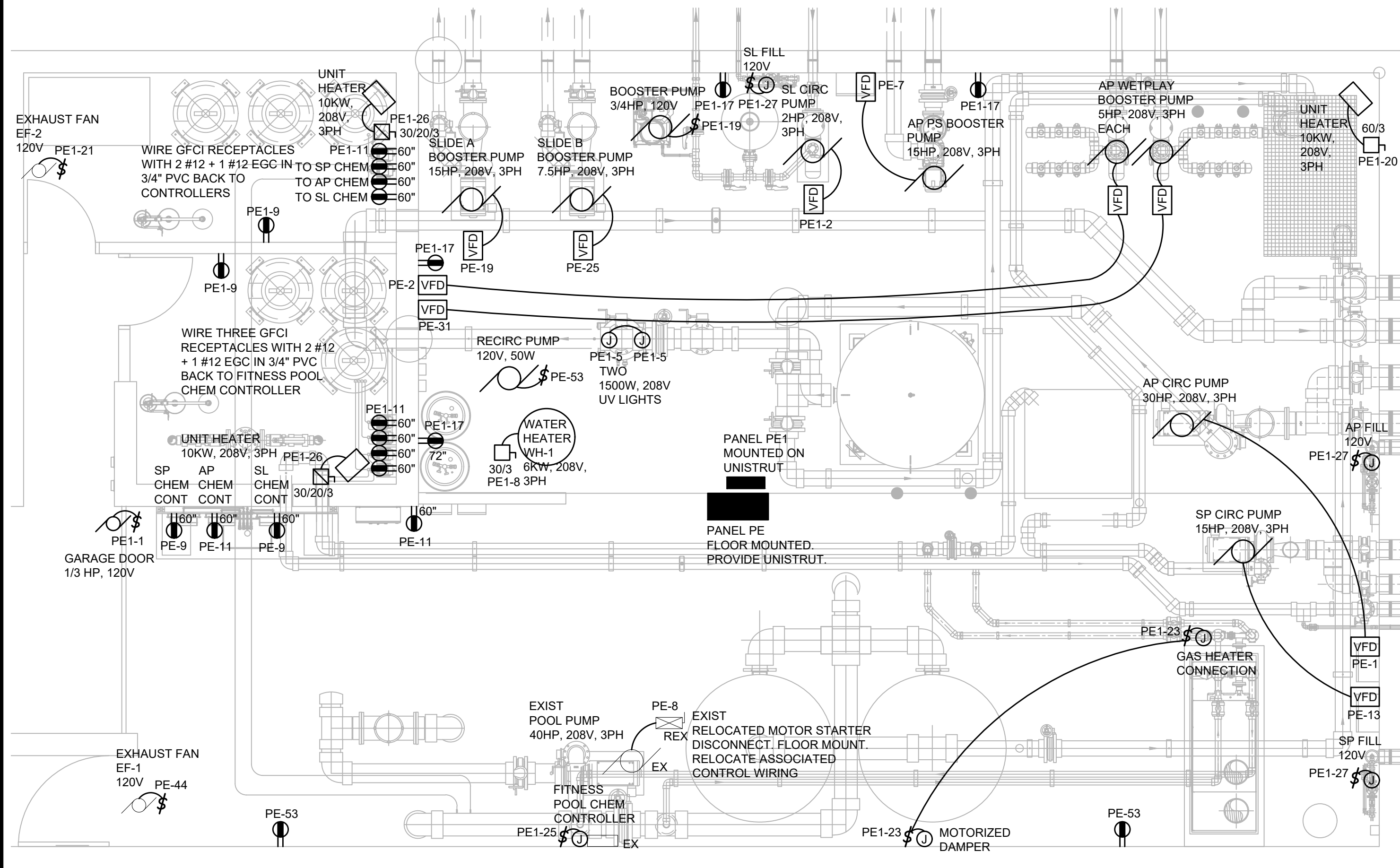
- PROVIDE PVC SCHEDULE 40 FOR ALL UNDERGROUND CONDUITS.
- TRANSITION TO RIGID METAL CONDUIT FOR UNDERGROUND CONDUIT TURNING UP ABOVE GROUND AND RUNNING EXPOSED, SURFACE MOUNTED.
- PROVIDE CONDUIT SEALS FOR ALL CONDUIT ENTERING INSIDE BUILDINGS.
- SEE DWGS L601, L602, L603 FOR LIGHTING SYSTEM DETAILS AND ASSOCIATED POLE DETAILS.

SHEET NOTES:

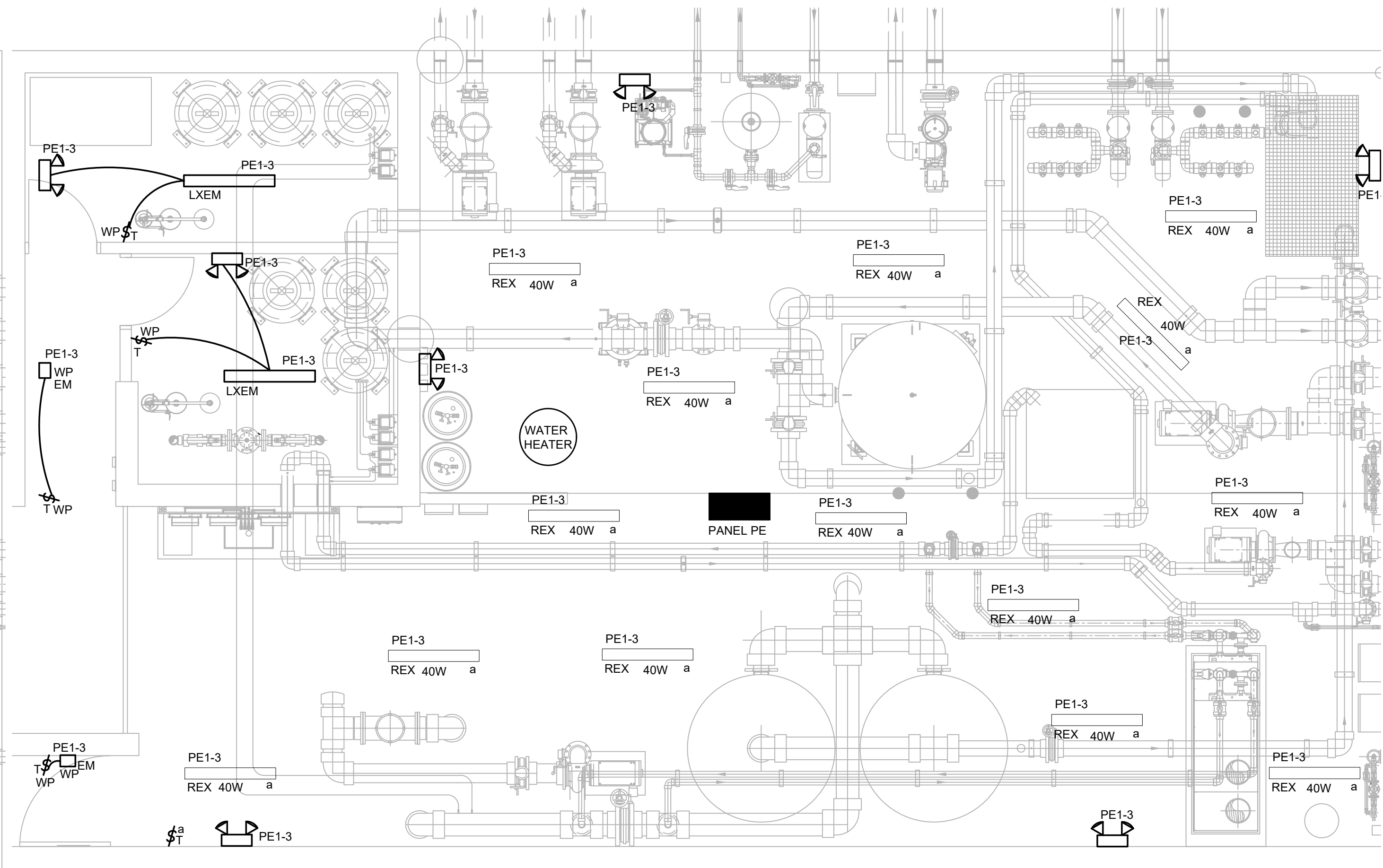
- ADD ALTERNATE 5 - POLES AND BASES FURNISHED AND INSTALLED BY MUSCO. PROVIDE CONDUIT AND WIRING INDICATED TO 3-POLE, 30-AMP CONTACTOR IN MUSCO CONTROL PANEL IN BATH HOUSE ELECTRIC ROOM.
- ADD ALTERNATE 5 - FURNISH AND INSTALL GFCI RECEPTACLES IN LIGHTING POLE JUNCTION BOX.
- ADD ALTERNATE 5 - PROVIDE 2" PVC SCHEDULE 40 AUDIO CONDUIT FROM POLE P5 TO POLE P3. DO NOT PROVIDE HAND HOLE.

1 ELECTRICAL SITE PLAN  
1/16" = 1'-0"

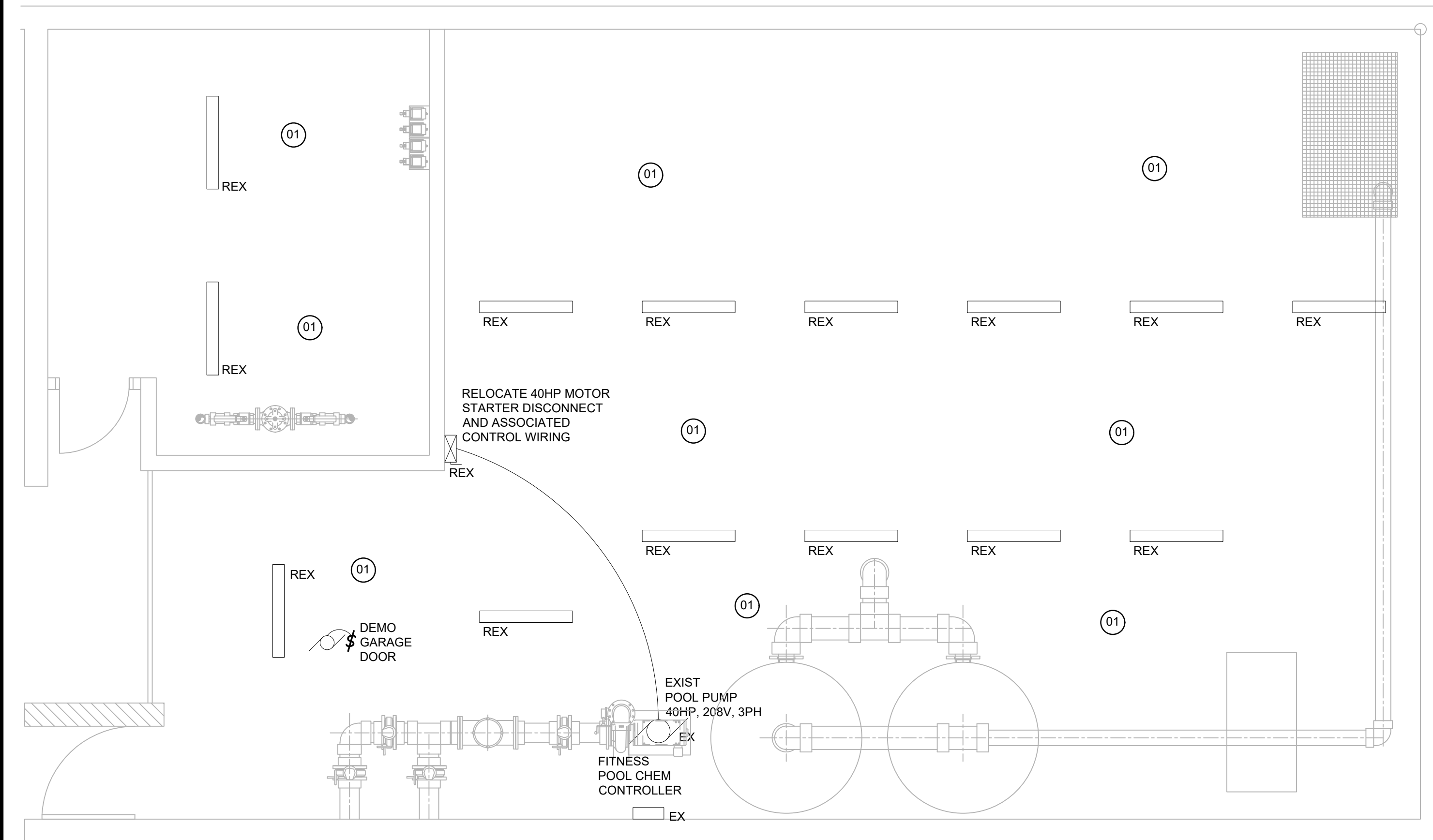




2 POOL EQUIPMENT ROOM POWER PLAN  
1/4" = 1'-0"



3 POOL EQUIPMENT ROOM LIGHTING PLAN  
1/4" = 1'-0"



1 POOL EQUIPMENT ROOM DEMOLITION PLAN  
1/4" = 1'-0"

#### GENERAL NOTES:

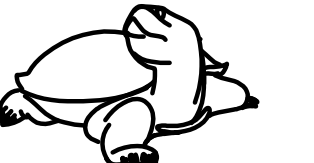
- DEMOLITION INCLUDES THE REMOVAL OF THE LIGHT FIXTURE, RECEPTACLE, ELECTRIC DEVICE, JUNCTION BOX, AND ITS ASSOCIATED CONDUIT AND WIRING BACK TO THEIR SOURCE PANEL. THE FOLLOWING LETTER NEXT TO A DEVICE INDICATES ACTION TO BE TAKEN.  
X - DEMOLISH  
EX - EXISTING TO REMAIN  
REX - RELOCATE / RELOCATED EXISTING
- WHERE AN EXISTING TO REMAIN BRANCH CIRCUIT IS INTERRUPTED BY DEMOLITION, PROVIDE AND MATCH ALL CONDUIT, WIRING, AND/OR CABLING TO MAKE THE CIRCUIT CONTINUOUS.
- TRACE, IDENTIFY, AND DEMOLISH ALL POOL EQUIPMENT ROOM BRANCH CIRCUITS BACK TO SNACK BAR PANELS MDP, PG, P, AND SB. REMOVE ALL CONDUCTORS FOR UNDERGROUND CONDUITS. LABEL CONDUITS AS ABANDONED SPARE. UPDATE PANEL DIRECTORIES AFTER THE COMPLETION OF ALL WORK.
- NOT ALL RECEPTACLES, DEVICES, JUNCTION BOXES, AND LIGHT FIXTURES MAY BE INDICATED ON PLANS. VERIFY WITH OWNER PRIOR TO DEMOLITION.
- FOR ABANDONED DEVICE AND OUTLET BOXES, PROVIDE COVER PLATE FOR COMPLETE INSTALLATION.
- CONNECT ALL EMERGENCY LIGHTING UNITS (ELUS) AHEAD OF ALL LOCAL SWITCHING CONTROLS.
- FOR CHLORINE STORAGE ROOMS - PROVIDE SCHEDULE 40 PVC CONDUIT AND PLASTIC OUTLET BOXES. PROVIDE WITH RECEPTACLE CLAM SHELL COVER.
- FOR POOL EQUIPMENT ROOM - PROVIDE EMT CONDUIT AND PLASTIC OUTLET BOXES.

#### SHEET NOTES:

- TRACE, IDENTIFY, AND DEMOLISH ALL POOL EQUIPMENT ROOM BRANCH CIRCUITS BACK TO SNACK BAR PANELS MDP, PG, P, AND SB. REMOVE ALL CONDUCTORS FOR UNDERGROUND CONDUITS. LABEL CONDUITS AS ABANDONED SPARE. UPDATE PANEL DIRECTORIES AFTER THE COMPLETION OF ALL WORK.

#### LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
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ROCKVILLE SWIM  
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DEPARTMENT OF  
RECREATION AND PARKS

#### OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

#### POOL EQUIPMENT ROOM DEMOLITION, POWER, AND LIGHTING PLANS

#### BID SET

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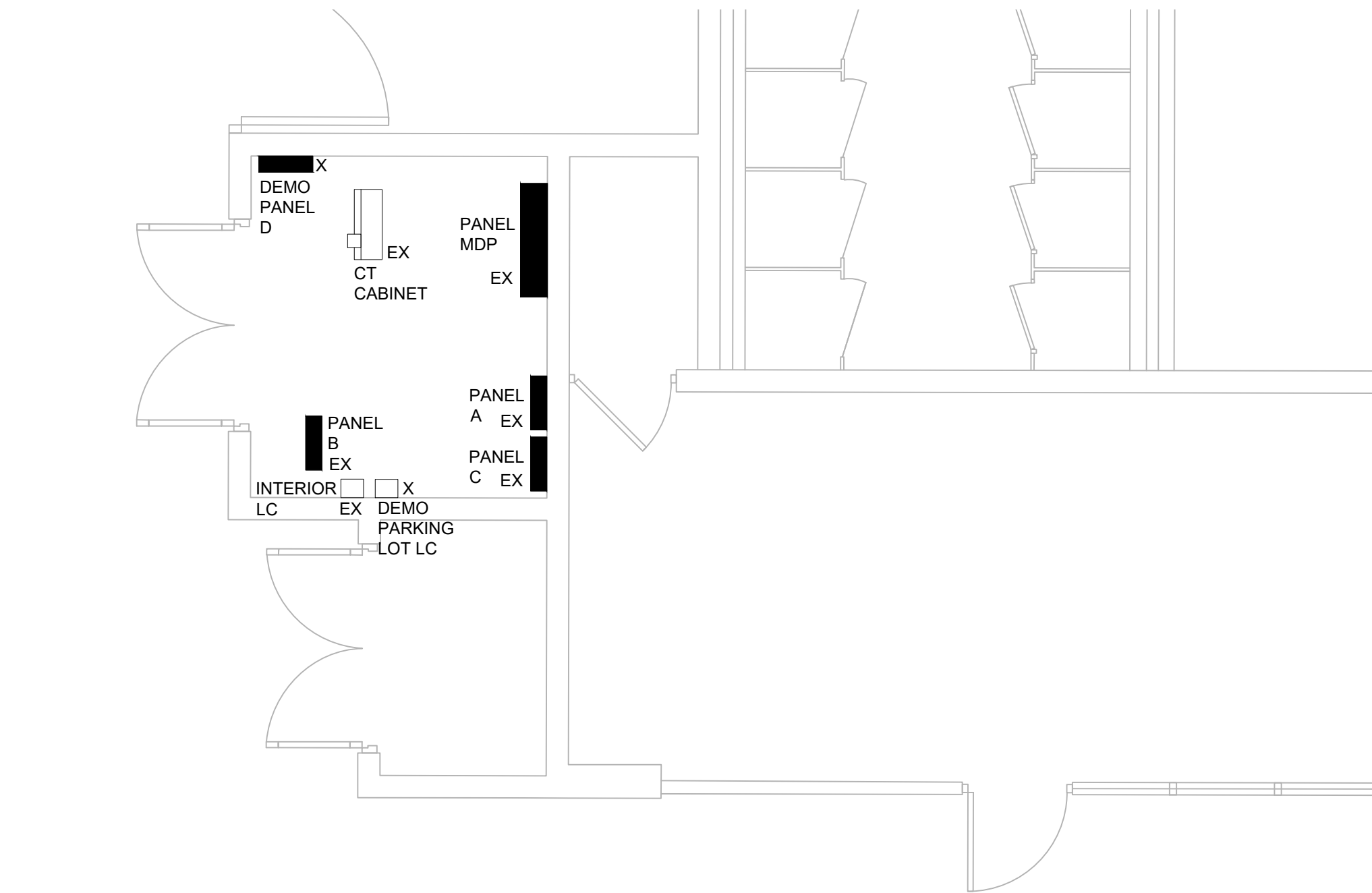
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Drawn By: AD, HW  
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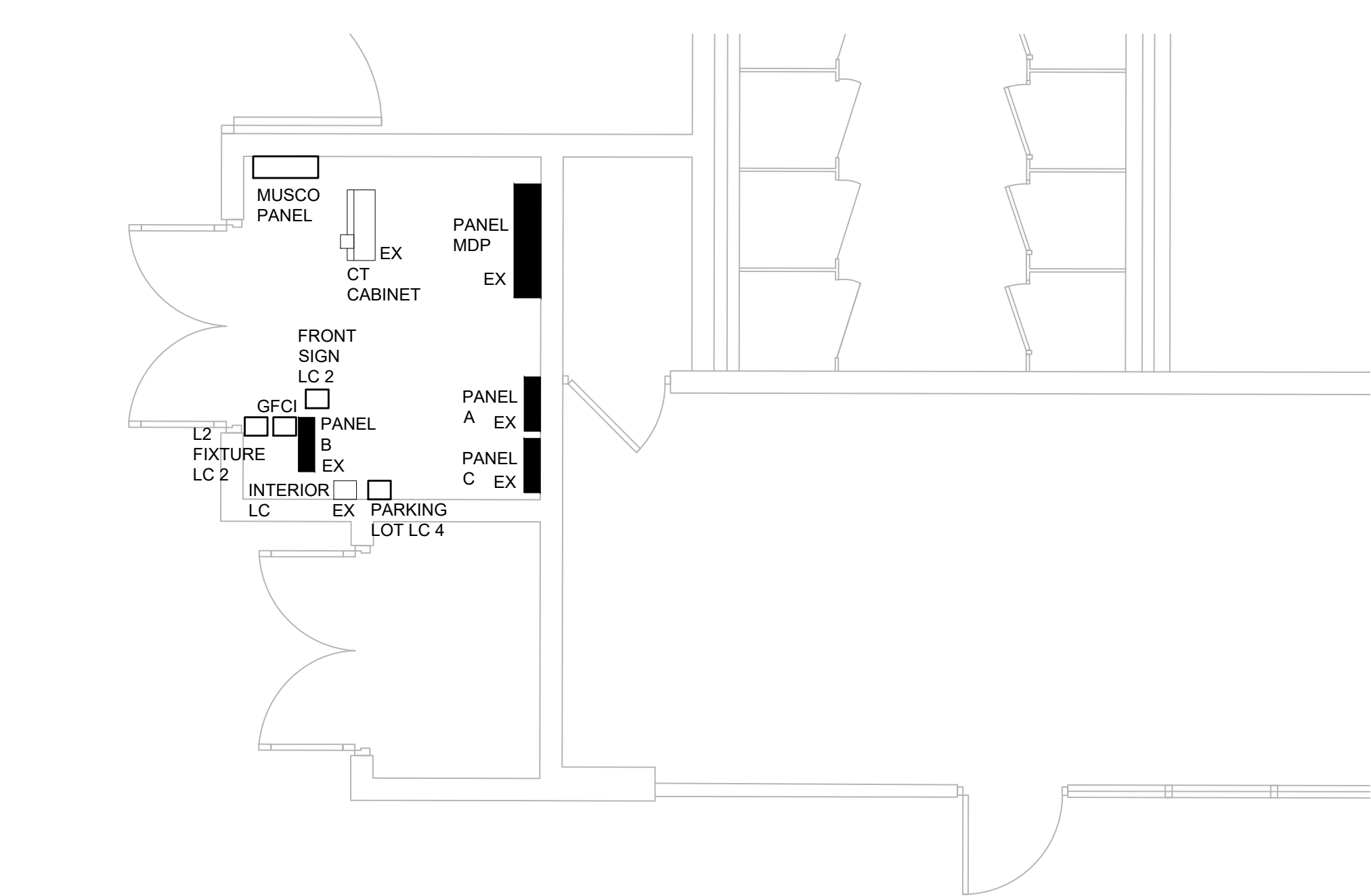
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**BID SET 02/23/2024**

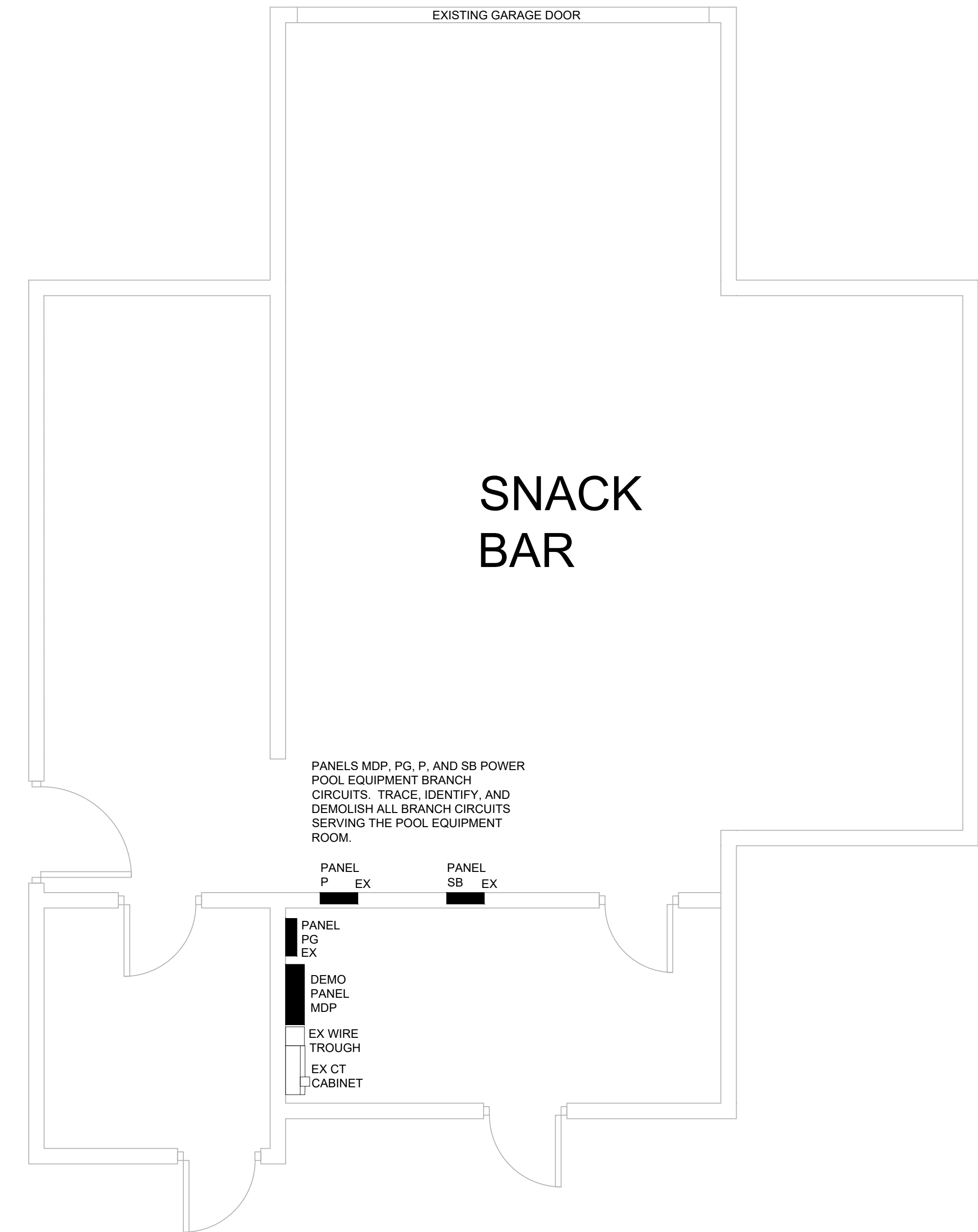




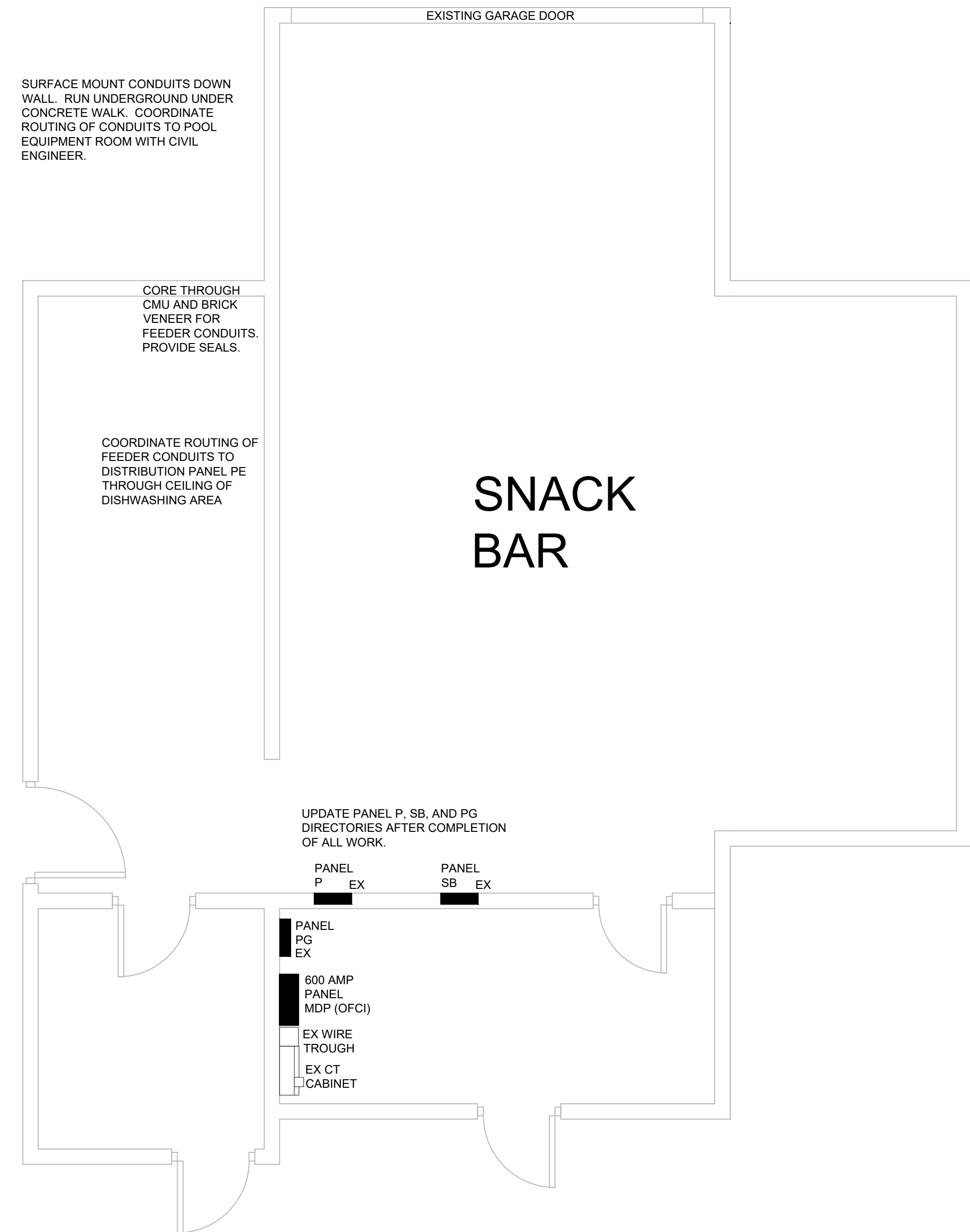
3 BATH HOUSE MAIN ELECTRIC ROOM DEMOLITION PLAN  
1/4" = 1'-0"



4 BATH HOUSE MAIN ELECTRIC ROOM PLAN  
1/4" = 1'-0"



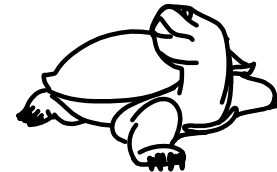
1 SNACK BAR MAIN ELECTRIC ROOM DEMOLITION PLAN  
1/4" = 1'-0"



2 SNACK BAR MAIN ELECTRIC ROOM PLAN  
1/4" = 1'-0"

LSG LANDSCAPE  
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ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

BATH HOUSE AND  
SNACK BAR  
DEMOLITION AND  
NEW WORK PLANS

BID SET

1	65% CONSTRUCTION DOCUMENT 04/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
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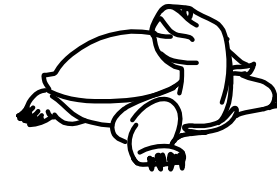
E007

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DEPARTMENT OF  
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RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

FITNESS POOL  
STORAGE ROOM  
DEMOLITION AND  
NEW WORK PLANS

BID SET

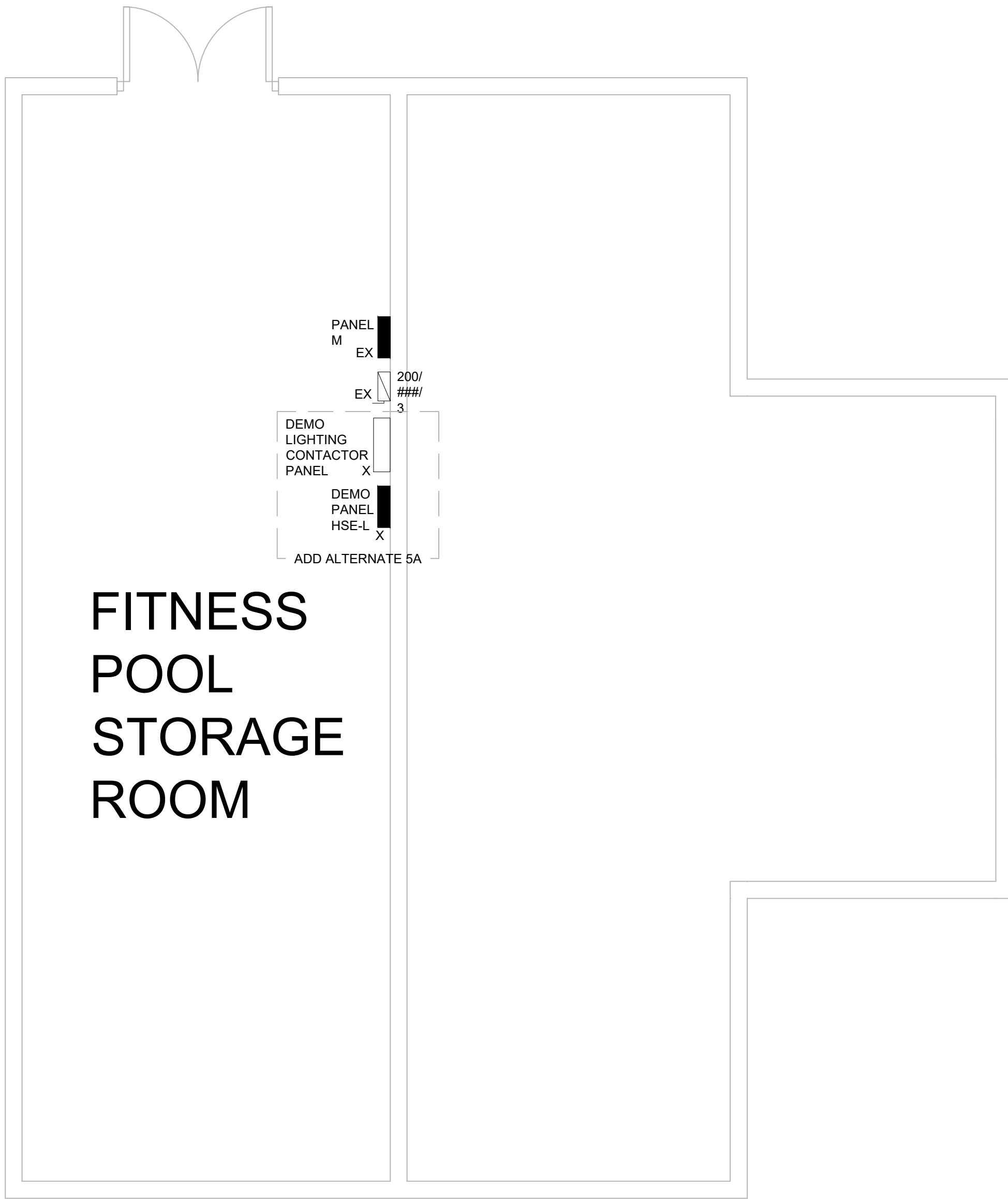
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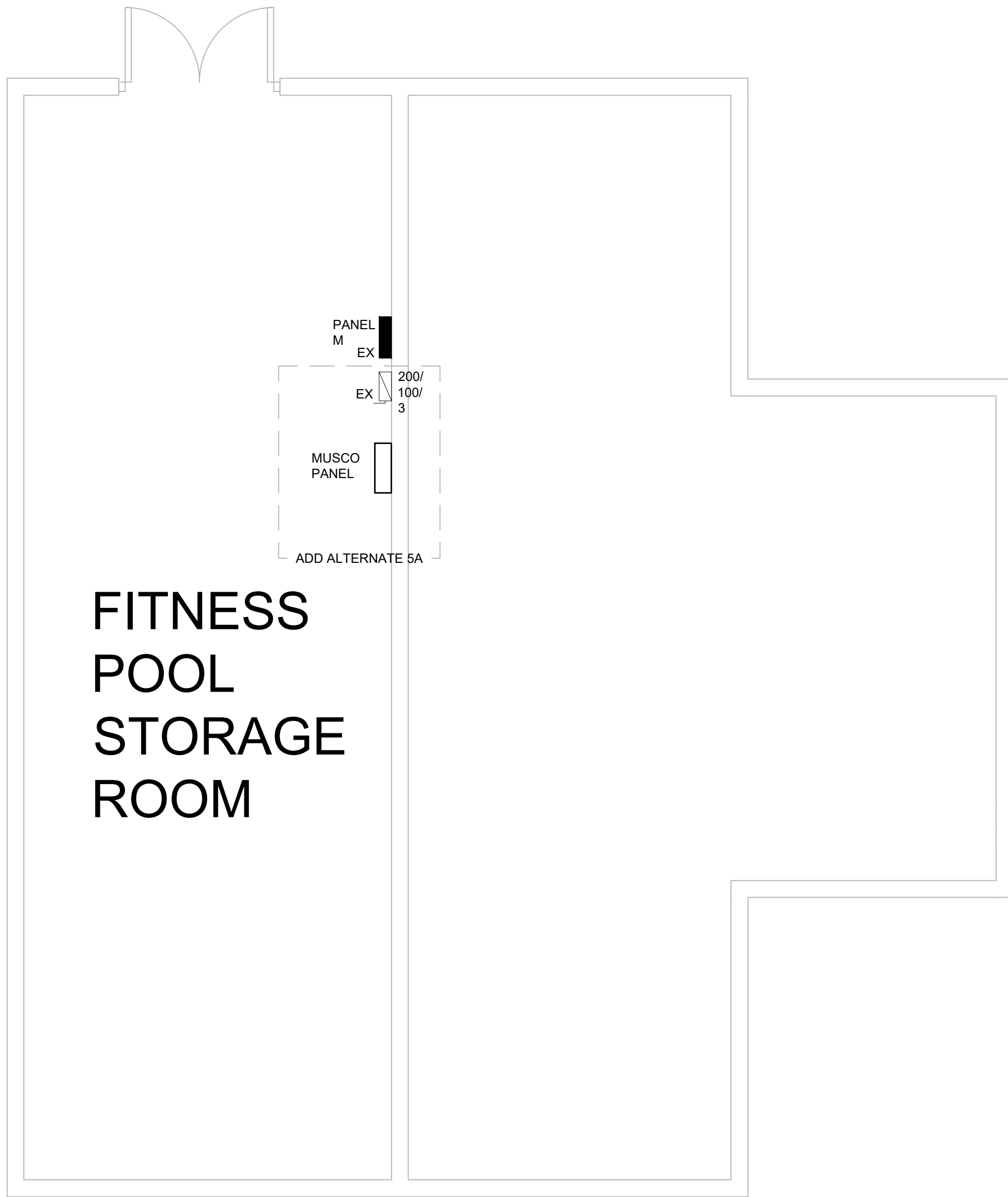
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Sheet No.

**E008**



① FITNESS POOL STORAGE ROOM ELECTRIC ROOM DEMOLITION PLAN ADD ALTERNATE 5A  
1/4" = 1'-0"

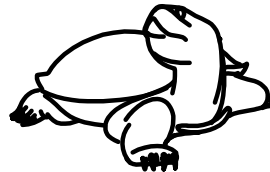


② FITNESS POOL STORAGE ROOM ELECTRIC ROOM PLAN ADD ALTERNATE 5A  
1/4" = 1'-0"



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DEPARTMENT OF  
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OUTDOOR  
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RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

BATH HOUSE RISER  
DIAGRAMS

BID SET

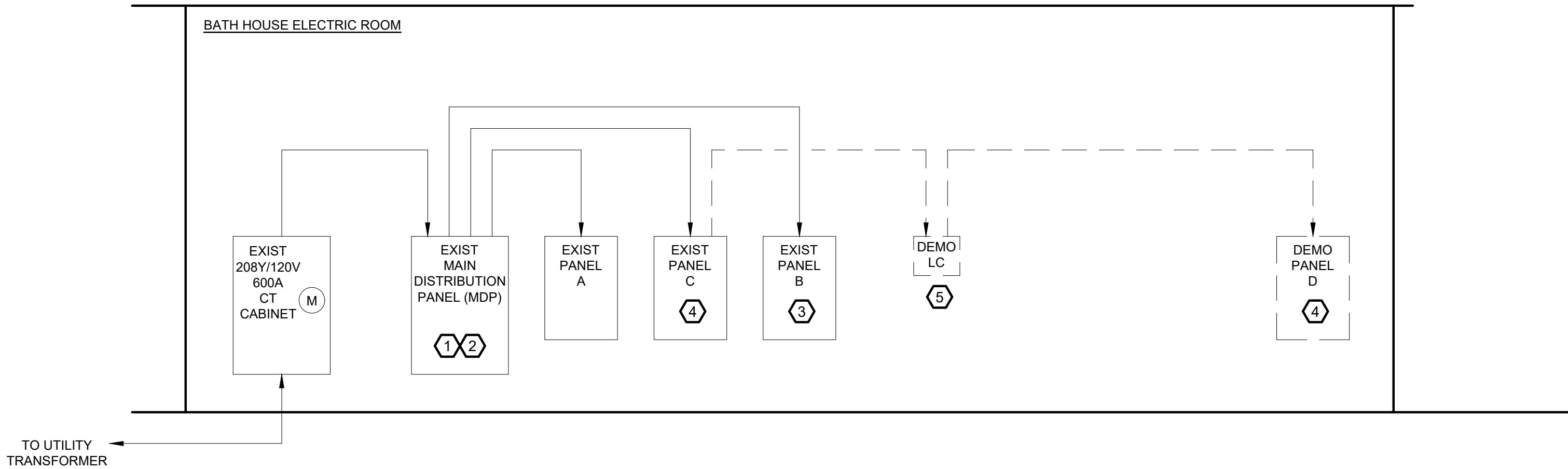
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E009

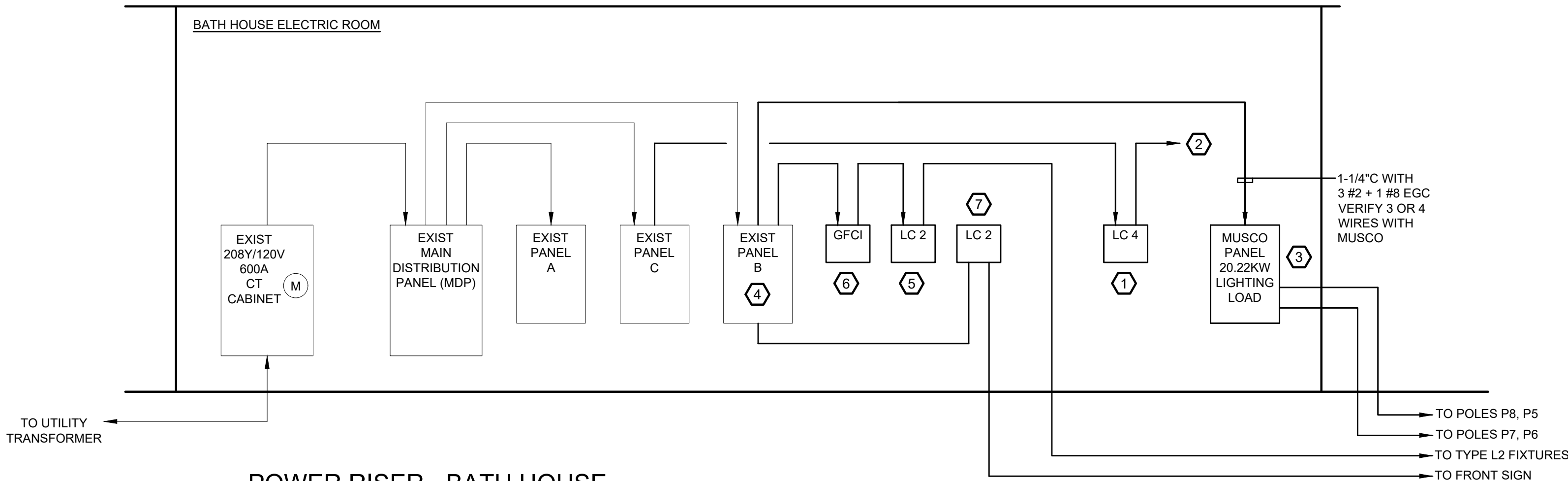


DEMOLITION POWER RISER - BATH HOUSE

NO SCALE

DEMOLITION POWER RISER - BATH HOUSE - NOTES

1. INSTALL OWNER PROVIDED, CONTRACTOR INSTALLED, SURGE PROTECTION DEVICE. SEE BATH HOUSE MDP PANEL SCHEDULE.
2. CONDUCT 30 DAY MEASUREMENT OF EQUIPMENT GROUNDING CONDUCTOR AT MAIN BONDING JUMPER. MEASUREMENT TO DETERMINE OBJECTIONABLE CURRENT (EQUIPMENT GROUNDS CARRYING NEUTRAL CURRENT) FOR POOL SAFETY.
3. PRIOR TO DEMOLITION OF POOL AND SLIDE, REVIEW AND IDENTIFY ALL EXISTING PANEL B BRANCH CIRCUITS SERVING THESE AREAS. DEMOLITION INCLUDES REMOVING ALL DEVICES, CONDUIT, AND CONDUCTORS SERVING THE UPPER POOL DECK, POOL, AND SLIDE TO BE DEMOLISHED.
4. RELOCATE FOUR PARKING LOT LIGHTING CIRCUITS FROM PANEL D TO PANEL B. CIRCUITS ARE 208V, SINGLE-PHASE, 20-AMPS. SEE PANEL B AND PANEL D SCHEDULES.
5. DEMOLISH 100-AMP PARKING LOT LIGHTING CONTACTOR (LC). LC TO BE REPLACED WITH FOUR INDIVIDUAL CONTACTORS (208V, 2-POLE, 20-AMP EACH).



POWER RISER - BATH HOUSE

NO SCALE

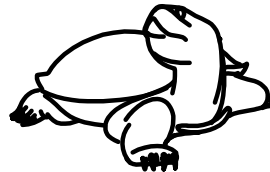
POWER RISER - BATH HOUSE - NOTES

1. LIGHTING CONTACTOR PANEL WITH FOUR, 20-AMP, 2-POLE, NORMALLY OPEN, RELAYS TO CONTROL PARKING LOT LIGHTING. PROVIDE 365 DAY ASTRONOMICAL TIME CLOCK TO TURN RELAYS ON AND OFF. COORDINATE TIME CLOCK WITH POOL MANAGEMENT. MATCH ON/OFF TIME OF EXISTING PARKING LOT LIGHTING.
2. INTERCEPT FOUR EXISTING PARKING LOT LIGHTING BRANCH CIRCUITS. MATCH BRANCH CIRCUIT CONDUCTOR SIZE AND INSULATION TYPE.
3. MUSCO PANEL IS OWNER FURNISHED, OWNER INSTALLED. MUSCO PANEL CONTAINS FOUR 3-POLE, 30-AMP RELAY CONTACTORS. ONE CONTACTOR FOR EACH POLE.
4. PROVIDE TWO 120V, 1-POLE, 20-AMP BRANCH CIRCUITS FOR POLE MOUNTED RECEPTACLES.
5. LIGHTING CONTACTOR PANEL WITH TWO, 20-AMP, 2-POLE, NORMALLY OPEN, RELAYS TO CONTROL TYPE L2 FIXTURES. PROVIDE 365 DAY ASTRONOMICAL TIME CLOCK TO TURN RELAYS ON AND OFF. COORDINATE TIME CLOCK WITH POOL MANAGEMENT.
6. NORTH SHORE SAFETY - 30-AMP PERMANENT GFCI. WIRE M-1 BRANCH CIRCUIT THROUGH 30 AMP PERMANENT GFCI DEVICE. DEVICE PROVIDES GFCI PROTECTION FOR TYPE L2 LIGHT FIXTURES.
7. LIGHTING CONTACTOR PANEL WITH TWO, 20-AMP, 2-POLE, NORMALLY OPEN, RELAYS TO CONTROL FRONT ROCKVILLE POOL SIGN. PROVIDE 365 DAY ASTRONOMICAL TIME CLOCK TO TURN RELAYS ON AND OFF. COORDINATE TIME CLOCK WITH POOL MANAGEMENT.



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DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

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CITY OF ROCKVILLE, MARYLAND

SNACK BAR AND  
POOL EQUIPMENT  
ROOM RISER  
DIAGRAMS

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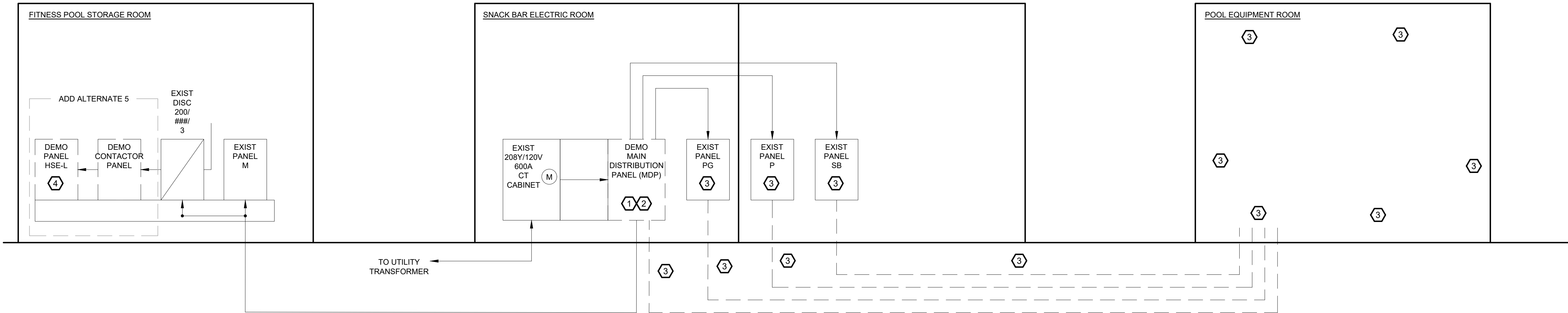
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E010

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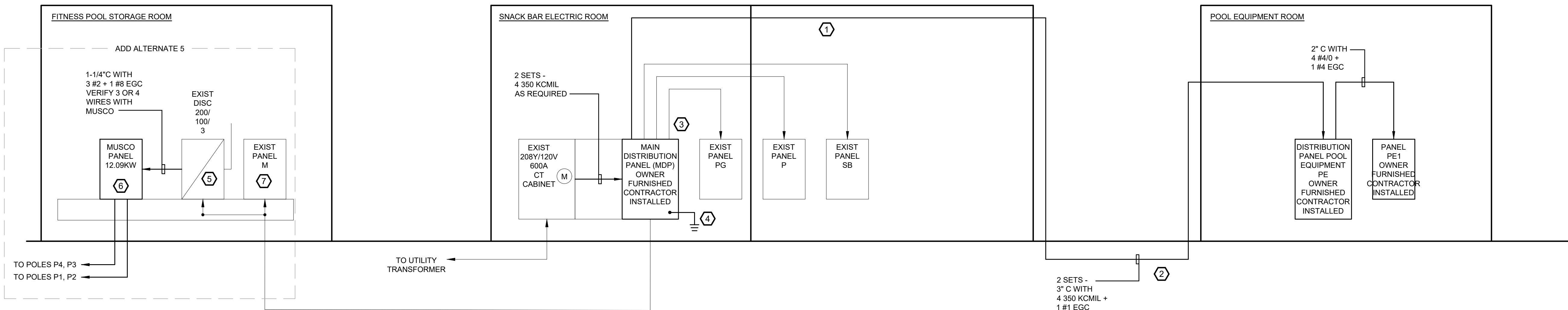
DEMOLITION POWER RISER - SNACK BAR AND POOL EQUIPMENT ROOM

NO SCALE

DEMOLITION POWER RISER - SNACK BAR AND POOL EQUIPMENT ROOM - NOTES

- CONDUCT 30 DAY MEASUREMENT OF EQUIPMENT GROUNDING CONDUCTOR AT MAIN BONDING JUMPER. MEASUREMENT TO DETERMINE OBJECTIONABLE CURRENT (EQUIPMENT GROUNDS CARRYING NEUTRAL CURRENT) FOR POOL SAFETY.
- DISTRIBUTION PANEL MDP TO BE REPLACED IN KIND WITH OWNER FURNISHED, CONTRACTOR INSTALLED, 600-AMP DISTRIBUTION PANEL.
- POOL EQUIPMENT ROOM - ALL EXISTING BRANCH CIRCUITS ARE POWERED FROM SNACK BAR PANELS MDP, PG, P, AND SB. TRACE AND IDENTIFY ALL BRANCH CIRCUITS PRIOR TO DEMOLITION. DEMOLISH ALL HOMERUNS. REMOVE CONDUCTORS AND LABEL UNDERGROUND CONDUITS AS ABANDONED IN PLACE / SPARE. POOL EQUIPMENT ROOM BRANCH CIRCUITS TO BE POWERED FROM DEDICATED PANEL PE.
- ADD ALTERNATE 5 - PRIOR TO DEMOLITION OF LOWER DECK POOL LIGHTING, REVIEW AND IDENTIFY ALL EXISTING PANEL HSE-L AND PANEL M BRANCH CIRCUITS SERVING THESE AREAS. DEMOLITION INCLUDES REMOVING ALL DEVICES, CONDUIT, AND CONDUCTORS SERVING THE LOWER POOL DECK TO BE DEMOLISHED.

ADD ALTERNATE 5



POWER RISER - SNACK BAR AND POOL EQUIPMENT ROOM

NO SCALE

POWER RISER - SNACK BAR AND POOL EQUIPMENT ROOM - NOTES

- COORDINATE ROUTING OF CONDUITS THROUGH SNACK BAR. PROVIDE EMT THROUGH SNACK BAR CEILING AND TRANSITION TO SCHEDULE 40 PVC. PROVIDE SEALS THROUGH ALL EXTERIOR WALLS / FLOORS.
- COORDINATE ROUTING OF PVC CONDUIT UNDERGROUND INTO POOL EQUIPMENT ROOM. CUT CONCRETE AND TRENCH DOWN TO A MINIMUM DEPTH OF 24 INCHES. PROVIDE SEALS THROUGH ALL EXTERIOR WALLS / FLOORS.
- RECONNECT ALL EXISTING TO REMAIN FEEDERS. SEE PANEL SCHEDULE MDP FOR SIZES.
- MDP IS SERVICE RATED WITH MAIN BONDING JUMPER BONDING NEUTRAL AND EQUIPMENT GROUND. REVIEW ALL EXISTING CONNECTIONS TO GROUND RODS, INCOMING WATER SERVICE, REBAR, AND ALL AVAILABLE GROUNDING ELECTRODES. PROVIDE GROUND RODS UNTIL EARTH RESISTANCE IS 25 OHMS OR LESS. BOND #6 AWG CU GROUNDING ELECTRODE CONDUCTOR (GEC) FROM ALL GROUND RODS AND CONNECT TO EQUIPMENT GROUND BUS. PROVIDE #4 AWG CU GEC BOND TO REBAR. BOND #2/0 AWG CU CONDUCTOR TO INCOMING WATER SERVICE.
- PROVIDE 100-AMP FUSES.
- MUSCO PANEL IS OWNER FURNISHED, OWNER INSTALLED. MUSCO PANEL CONTAINS FOUR 3-POLE, 30-AMP RELAY CONTACTORS. ONE CONTACTOR FOR EACH POLE.
- PROVIDE TWO 120V, 1-POLE, 20-AMP BRANCH CIRCUITS FOR POLE MOUNTED RECEPTACLES.

ADD ALTERNATE 5







EXISTING FITNESS STORAGE PANELBOARD M														225 AMP MAIN CIRCUIT BREAKER			
208Y/120V, 3 PHASE, 4 WIRE														10,000 AIC			
MANUFACTURER: SQUARE D NQOD														SURFACE MOUNTED			
OPTIONS:																	
#	DESCRIPTION	WIRE	EGC	COND	TRIP AMPS	P	TYPE	CONNECTED LOADS IN VA	TYPE	P	TRIP AMPS	WIRE	EGC	COND	DESCRIPTION	#	
1	EXISTING				20	1	EX	A	EX	1	20					2	
3	EXISTING				20	1	EX	B	EX	1	20					4	
5	EXISTING				20	1	EX	C	EX	1	20					6	
7	EXISTING				20	1	EX	A	EX	1	20					8	
9	EXISTING				20	1	EX	B	EX	1	20					10	
11	EXISTING				20	1	EX	C	EX	1	20					12	
13	EXISTING				20	1	G,EX	A	G,EX	1	20					14	
15	REC POLES P3 AND P4	2#8	1#8	2"	20	1	N	360	B	G,EX	1	20				16	
17	REC POLES P1 AND P2	2#8	1#8	2"	20	1	N	360	C						BUSS SPACE	18	
19	BUSS SPACE					1		A		1					BUSS SPACE	20	
21	BUSS SPACE					1		B		1					BUSS SPACE	22	
23	BUSS SPACE					1		C		1					BUSS SPACE	24	
25	BUSS SPACE					1		A		1					BUSS SPACE	26	
27	BUSS SPACE					1		B		1					BUSS SPACE	28	
29	BUSS SPACE					1		C		1					BUSS SPACE	30	
31	BUSS SPACE					1		A		1					BUSS SPACE	32	
33	BUSS SPACE					1		B		1					BUSS SPACE	34	
35	BUSS SPACE					1		C		1					BUSS SPACE	36	
37	BUSS SPACE					1		A		1					BUSS SPACE	38	
39	EXISTING				20	2		B	EX	2	30					40	
41								C								42	

TYPE KEY  
A - ARC FAULT CIRCUIT INTERRUPTER  
G - GROUND FAULT CIRCUIT INTERRUPTER  
ST - SHUNT TRIP  
L - LOCKING BAR  
H - HACR RATED  
S - SWITCH DUTY RATED  
HL - HANDLE LOCKOFF  
MC - METAL-CLAD CABLE

EXISTING PANELBOARD P																225 AMP MAIN LUG ONLY		
208Y/120V, 3 PHASE, 4 WIRE																10,000 AIC		
MANUFACTURER: SQUARE D NAIB																SURFACE MOUNTED		
OPTIONS:																		
#	DESCRIPTION	WIRE	EGC	COND	TRIP AMPS	P	TYPE	CONNECTED LOADS IN VA	TYPE	P	TRIP AMPS	WIRE	EGC	COND	DESCRIPTION	#		
1	EXISTING				15	2	EX	A	EX	1	20					2		
3								B	EX	1	20					4		
5	EXISTING				15	2	EX	C	EX	2	15					6		
7								A								8		
9	EXISTING				20	1	EX	B	EX	2	30					10		
11	EXISTING				20	1	EX	C								12		
13	EXISTING				20	2	EX	A	EX	3	##					14		
15								B								16		
17	EXISTING				40	3	EX	C								18		
19								A		1					BUSS SPACE	20		
21								B	EX	2	20					22		
23	EXISTING				40	2	EX	C								24		
25								A	EX	3	50					26		
27	EXISTING				20	1	EX	B								28		
29	BUSS SPACE					1		C								30		

TYPE KEY  
A - ARC FAULT CIRCUIT INTERRUPTER  
G - GROUND FAULT CIRCUIT INTERRUPTER  
ST - SHUNT TRIP  
L - LOCKING BAR  
H - HACR RATED  
S - SWITCH DUTY RATED  
HL - HANDLE LOCKOFF  
MC - METAL-CLAD CABLE

EXISTING PANELBOARD PG															100 AMP MAIN LUG ONLY		
208Y/120V, 3 PHASE, 4 WIRE															10,000 AIC		
MANUFACTURER: SQUARE D NQOD															SURFACE MOUNTED		
OPTIONS:																	
#	DESCRIPTION	WIRE	EGC	COND	TRIP AMPS	P	TYPE	CONNECTED LOADS IN VA	TYPE	P	TRIP AMPS	WIRE	EGC	COND	DESCRIPTION	#	
1	EXISTING				20	1	EX	A	EX	1	20				EXISTING	2	
3	EXISTING				20	1	EX	B	EX	1	20				EXISTING	4	
5	EXISTING				20	1	EX	C			1				BUSS SPACE	6	
7	EXISTING				30	3	EX	A			1				BUSS SPACE	8	
9								B			1				BUSS SPACE	10	
11								C			1				BUSS SPACE	12	
13	BUSS SPACE					1		A	EX	3	20				EXISTING	14	
15	BUSS SPACE					1		B								16	
17	BUSS SPACE					1		C								18	
19	BUSS SPACE					1		A		1					BUSS SPACE	20	

TYPE KEY  
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G - GROUND FAULT CIRCUIT INTERRUPTER  
ST - SHUNT TRIP  
L - LOCKING BAR  
H - HACR RATED  
S - SWITCH DUTY RATED  
HL - HANDLE LOCKOFF  
MC - METAL-CLAD CABLE

0.0 KVA PHASE A  
0.0 KVA PHASE B  
0.0 KVA PHASE C  
0.0 KVA TOTAL 0.0 AMPS TOTAL

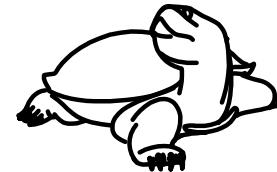
EXISTING PANELBOARD SB														225 AMP MAIN LUG ONLY		
208Y/120V, 3 PHASE, 4 WIRE														10,000 AIC		
MANUFACTURER: SQUARE D NAIB														SURFACE MOUNTED		
OPTIONS:																
#	DESCRIPTION	WIRE	EGC	COND	TRIP AMPS	P	TYPE	CONNECTED LOADS IN VA	TYPE	P	TRIP AMPS	WIRE	EGC	COND	DESCRIPTION	#
1	EXISTING				20	1	EX	A		EX	1	20				2
3	EXISTING				20	1	EX	B		EX	1	20				4
5	EXISTING				20	1	EX	C		EX	1	20				6
7	EXISTING				20	1	EX	A		EX	1	20				8
9	EXISTING				20	1	EX	B		EX	1	20				10
11	EXISTING				20	1	EX	C		EX	1	20				12
13	EXISTING				20	1	EX	A		EX	1	20				14
15	EXISTING				20	1	EX	B		EX	1	20				16
17	EXISTING				20	1	EX	C		EX	1	20				18
19	EXISTING				20	1	EX	A		EX	1	20				20
21	EXISTING				20	1	EX	B		EX	1	20				22
23	EXISTING				20	1	EX	C		EX	1	20				24
25	EXISTING				40	2	EX	A		EX	2	30				26
27								B								28
29	EXISTING				20	1	EX	C		EX	2	30				30
31	EXISTING				20	1	EX	A								32
33	EXISTING				20	1	EX	B		EX	1	20				34
35	BUSS SPACE						1	C		EX	1	20				36
37	EXISTING				##	3	EX	A		EX	1	20				38
39								B		EX	1	20				40
41								C		EX	1	20				42

TYPE KEY  
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G - GROUND FAULT CIRCUIT INTERRUPTER  
ST - SHUNT TRIP  
L - LOCKING BAR  
H - HACR RATED  
S - SWITCH DUTY RATED  
HL - HANDLE LOCKOFF  
MC - METAL-CLAD CABLE

0.0 KVA PHASE A  
0.0 KVA PHASE B  
0.0 KVA PHASE C  
0.0 KVA TOTAL 0.0 AMPS TOTAL

LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



DIAMONDBACK  
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LICENSE NO. 27084  
EXPIRATION DATE:  
01/30/2026

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

PANEL SCHEDULES

BID SET

1	65% CONSTRUCTION DOCUMENT 06/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	PERMIT SET 12/08/2023
5	REVIEW SET 01/22/2024
6	BID SET 02/22/2024

No.	Description	Date
Revisions		

Project Number: 22.00036.00  
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Drawn By: AD, HW  
Checked By: AD  
Date: 5/19/2023

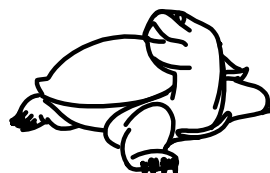
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E012



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RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

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No.	Description	Date
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EXISTING BATHHOUSE PANELBOARD MDP															600A MAIN CIRCUIT BREAKER 65,000 AIC SURFACE MOUNTED		
208Y/120V, 3 PHASE, 4 WIRE MANUFACTURER: SQUARE D I-LINE HCP NOTES - INSTALL OWNER PROVIDED INTERNAL SURGE PROTECTION DEVICE (SPD)																	
#	DESCRIPTION	WIRE	EGC	COND	TRIP AMPS	P	TYPE	CONNECTED LOADS IN VA	TYPE	P	TRIP AMPS	WIRE	EGC	COND	DESCRIPTION	#	
1	PANEL B	3#1/0	1#6	1-1/4"	225	3	EX	A			600				MAIN CIRCUIT BREAKER	2	
3								B								4	
5								C								6	
7	PANEL C				225	3	EX	A								8	
9								B								10	
11								C								12	
13	PANEL A				225	3	EX	A		1					BUSS SPACE	14	
15								B		1					BUSS SPACE	16	
17								C		1					BUSS SPACE	18	
19	PANEL D SKATEPARK				200	3	EX	A		N					SURGE PROTECTION DEVICE (SPD) OWNER PROVIDED CONTRACTOR INSTALLED	20	
21								B								22	
23								C								24	
25	BUSS SPACE					1		A								26	
27	BUSS SPACE					1		B								28	
29	BUSS SPACE					1		C								30	
									0.0 KVA PHASE A								
									0.0 KVA PHASE B								
									0.0 KVA PHASE C								
									0.0 KVA TOTAL                      0.0 AMPS TOTAL								
TYPE KEY A - ARC FAULT CIRCUIT INTERRUPTER G - GROUND FAULT CIRCUIT INTERRUPTER																	

TYPE KEY  
A - ARC FAULT CIRCUIT INTERRUPTER  
G - GROUND FAULT CIRCUIT INTERRUPTER  
ST - SHUNT TRIP  
L - LOCKING BAR  
H - HACR RATED  
S - SWITCH DUTY RATED  
HL - HANDLE LOCKOFF  
MC - METAL-CLAD CABLE

EXISTING PANELBOARD C															225 AMP MAIN LUG ONLY 10,000 AIC SURFACE MOUNTED		
208Y/120V, 3 PHASE, 4 WIRE MANUFACTURER: SQUARE D NQOD OPTIONS:																	
#	DESCRIPTION	WIRE	EGC	COND	TRIP AMPS	P	TYPE	CONNECTED LOADS IN VA	TYPE	P	TRIP AMPS	WIRE	EGC	COND	DESCRIPTION	#	
1	REC POLES P6 AND P8	2#8	1#8	2"	20	1	N	360 A		EX	3	100			SPARE	2	
3	REC POLES P6 AND P7	2#8	1#8	2"	20	1	N	360 B							(SUB PANEL D DEMOLISHED)	4	
5	SPARE				20	1	N	C								6	
7	EX HEATER				20	2	EX	A		EX	2	20			EX HEATER	8	
9								B								10	
11	EX HEATER				20	2	EX	C		EX	2	20			EX HEATER	12	
13								A								14	
15	EX HEATER				20	2	EX	B		EX	2	20			EX HEATER	16	
17								C								18	
19	EX HEATER				20	2	EX	A		EX	2	20			EX HEATER	20	
21								B								22	
23	EX HEATER				20	2	EX	C		EX	2	20			EX HEATER	24	
25								A								26	
27	EX REC GFCI				20	1	EX	B	1000	N	2	20	2#12	1#12	3/4"	PARKING LOT LIGHTS	28
29	EX REC GFCI				20	1	EX	C	1000								30
31	EX REC GFCI				20	1	EX	A	1000	N	2	20	2#12	1#12	3/4"	PARKING LOT LIGHTS	32
33	PARKING LOT LIGHTS	2#12	1#12	3/4"	20	2	N	1000 B	1000							34	
35								1000 C	1000	N	2	20	2#12	1#12	3/4"	PARKING LOT LIGHTS	36
37	BUSS SPACE					1		A	1000							38	
39	EX AC-1				20	2	EX	B		EX	2	20			EX AC-2	40	
41								C								42	
TYPE KEY										2.4 KVA PHASE A							
A - ARC FAULT CIRCUIT INTERRUPTER										3.4 KVA PHASE B							
G - GROUND FAULT CIRCUIT INTERRUPTER										3.0 KVA PHASE C							
										8.7 KVA TOTAL 24.2 AMPS TOTAL							

TYPE KEY  
A - ARC FAULT CIRCUIT INTERRUPTER  
G - GROUND FAULT CIRCUIT INTERRUPTER  
ST - SHUNT TRIP  
L - LOCKING BAR  
H - HACR RATED  
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HL - HANDLE LOCKOFF  
MC - METAL-CLAD CABLE

EXISTING PANELBOARD B															225 AMP MAIN LUG ONLY	
208Y/120V, 3 PHASE, 4 WIRE MANUFACTURER: SQUARE D NQOD OPTIONS:															10,000 AIC SURFACE MOUNTED	
#	DESCRIPTION	WIRE	EGC	COND	TRIP AMPS	P	TYPE	CONNECTED LOADS IN VA	TYPE	P	TRIP AMPS	WIRE	EGC	COND	DESCRIPTION	#
1	WALL LIGHTS SHADE AREA				20	2	EX	235 A		EX	2	20			SPARE	2
3								235 B								4
5	FRONT ROCKVILLE SIGN	2#8	1#10	1"	20	1	N	C		EX	2	20			SPARE	6
7	SPARE				20	1	N	A								8
9	SPARE				20	2	EX	B		EX	2	20			SPARE	10
11								C								12
13	SPARE				20	2	EX	A		EX	2	20			SPARE	14
15								B								16
17	SPARE				20	2	EX	C		EX	2	20			SPARE	18
19								A								20
21	MUSCO PANEL	3#2	1#6	1-1/4"	100	3	N	6740 B		EX	2	20			SPARE	22
23								6740 C								24
25								6740 A		EX	1	20			EX ELECTRIC RM LIGHTS	26
27	EX GWH-1 & GWH-2				20	1	EX	B		EX	1	20			EX EMERGENCY LIGHTS	28
29	EX P-1				20	1	EX	C		EX	1	20			EX EMERGENCY LIGHTS	30
31	EX EMERGENCY CIRCUIT				20	1	EX	A		EX	1	20			EX EMERGENCY LIGHTS	32
33	EX EMERGENCY CIRCUIT				20	1	EX	B		EX	1	20			EX TIMECLOCK-INTERIOR LTS	34
35	EX EMERGENCY CIRCUIT				20	2	EX	C		EX	1	20			EX GFCI	36
37								A		EX	3	30			EX LIGHTING CONTACTOR	38
39	EX BABY POOL				20	1	EX	B								40
41	EX GFCI BY WALL				20	1	EX	C								42
TYPE KEY									7.0 KVA PHASE A							
A - ARC FAULT CIRCUIT INTERRUPTER									7.0 KVA PHASE B							
G - GROUND FAULT CIRCUIT INTERRUPTER									6.7 KVA PHASE C							
									20.7 KVA TOTAL 67.5 AMPS TOTAL							

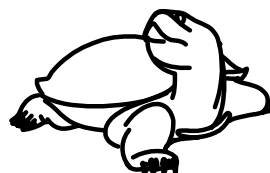
TYPE KEY  
A - ARC FAULT CIRCUIT INTERRUPTER  
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ST - SHUNT TRIP  
L - LOCKING BAR  
H - HACR RATED  
S - SWITCH DUTY RATED  
HL - HANDLE LOCKOFF  
MC - METAL-CLAD CABLE

DEMOLISH PANELBOARD D															225 AMP MAIN LUG ONLY 10,000 AIC SURFACE MOUNTED		
208Y/120V, 3 PHASE, 4 WIRE MANUFACTURER: SQUARE D NQOD OPTIONS:																	
#	DESCRIPTION	WIRE	EGC	COND	TRIP AMPS	P	TYPE	CONNECTED LOADS IN VA	TYPE	P	TRIP AMPS	WIRE	EGC	COND	DESCRIPTION	#	
1	EX PARKING LOT LIGHTS				20	2	EX	A	EX	2	20				EX PARKING LOT LIGHTS	2	
3								B								4	
5	EX PARKING LOT LIGHTS				20	2	EX	C	EX	2	20				EX PARKING LOT LIGHTS	6	
7								A								8	
9	SPARE				20	2	EX	B	EX	2	20				SPARE	10	
11								C								12	
13	SPARE				20	2	EX	A	EX	2	20				SPARE	14	
15								B								16	
17	SPARE				20	2	EX	C	EX	2	20				SPARE	18	
19								A								20	
21	SPARE				20	2	EX	B	EX	2	20				SPARE	22	
23								C								24	
25	BUSS SPACE					1		A		1					BUSS SPACE	26	
27	BUSS SPACE					1		B		1					BUSS SPACE	28	
29	BUSS SPACE					1		C		1					BUSS SPACE	30	
									0.0 KVA PHASE A								
									0.0 KVA PHASE B								
									0.0 KVA PHASE C								
									0.0 KVA TOTAL			0.0 AMPS TOTAL					
TYPE KEY A - ARC FAULT CIRCUIT INTERRUPTER G - GROUND FAULT CIRCUIT INTERRUPTER																	



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DEPARTMENT OF  
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OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

SPECIFICATIONS AND  
SYMBOLS

BID SET

1	65% CONSTRUCTION DOCUMENT 04/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
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No.	Description	Date
Revisions		

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P001

BID SET 02/23/2024

SECTION 100 - GENERAL SPECIFICATIONS

1.01 CODE COMPLIANCE: THE CONTRACTOR SHALL COMPLY WITH THE LAWS, ORDINANCES, RULES, AND REGULATIONS OF ALL GOVERNMENTAL AUTHORITIES HAVING JURISDICTION, OF THE NATIONAL FIRE PROTECTION ASSOCIATION, OF THE NATIONAL ELECTRIC CODE, AND OF THE PUBLIC UTILITIES HAVING JURISDICTION OVER ANY OF THE SYSTEMS HEREIN SPECIFIED.

1.02 PERMIT FEES: THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS, AND APPROVALS TO COMPLETE THE PROJECT WORK. ALL CERTIFICATES SHALL BE IN DUPLICATE AND BE DELIVERED TO THE OWNER'S REPRESENTATIVE.

1.03 DEFINITIONS:

A. "PROVIDE" UNDER THIS CONTRACT IS DEFINED AS FURNISH AND INSTALL.

B. "CONCEALED" UNDER THIS CONTRACT IS DEFINED AS HIDDEN BY ARCHITECTURAL WALLS AND CEILINGS.

C. "EXPOSED" UNDER THIS CONTRACT IS DEFINED AS VISIBLE TO VIEW.

D. "INDICATED" UNDER THIS CONTRACT IS DEFINED AS SHOWN IN THE CONTRACTED DOCUMENTS.

1.04 SCOPE OF WORK: PROVIDE ALL WORK INDICATED IN THE CONTRACT DOCUMENTS.

1.05 EXISTING CONDITIONS: THE SITE, LOCATION AND ROUTING OF SYSTEMS INDICATED TO HAVE NEW CONNECTIONS MADE TO THEM ARE SHOWN ACCURATELY AS FIELD CONDITIONS WOULD PERMIT. BIDDING CONTRACTORS SHALL VISIT THE SITE AND THOROUGHLY EXAMINE THE CONTRACT DRAWINGS. CONTRACTORS WHO DO NOT VISIT THE SITE MAY BE UNILATERALLY NOT PERMITTED TO SUBMIT A BID IF THE OWNER SO DECIDES. ALL EXISTING CONDITIONS SHALL BE EXAMINED AND THEIR EXACT LOCATIONS VERIFIED. THE CONTRACTORS SHALL REPORT TO THE OWNER, BEFORE SUBMITTING A BID, ANY CONDITIONS WHICH MIGHT MAKE THE INSTALLATION OF THE REQUIRED EQUIPMENT A PROBLEM. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO INVESTIGATE EXISTING CONDITIONS OR MISUNDERSTANDINGS OF THE CONTRACT DOCUMENTS.

1.06 CONTRACT DOCUMENTS: THE CONTRACT DOCUMENTS SHALL BE CONSIDERED AS DIAGRAMMATIC AND FOR BIDDING PURPOSES ONLY. ATTENTION IS CALLED TO THE FACT THAT WHILE THE DOCUMENTS ARE GENERALLY TO SCALE AND ARE AS ACCURATE AS THE SCALE WILL PERMIT, ALL IMPORTANT DIMENSIONS SHALL BE DETERMINED IN THE FIELD. THE DRAWINGS ARE NOT TO BE CONSIDERED AS CONSTRUCTION SHOP DRAWINGS. THE DRAWINGS DO NOT INDICATE EVERY FITTING, ELBOW, OFFSET, VALVE, PULL BOX OR SIMILAR COMPONENTS WHICH ARE REQUIRED TO COMPLETE THE PROJECT WORK. PREPARE FIELD CONSTRUCTION DRAWINGS IF NECESSARY FOR, OR AS REQUIRED TO, INSURE PROPER INSTALLATION. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS TO INSTALL THE SYSTEMS AS DIAGRAMMED AT NO ADDITIONAL COST.

1.07 DEMOLITION: THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT NOT INDICATED TO BE REUSED TO A DESIGNATED LOCATION AT THE PROJECT SITE. AFTER THE EQUIPMENT HAS BEEN ASSEMBLED FOR INSPECTION BY THE OWNER AND POSSIBLE RETENTION, ALL EQUIPMENT NOT TO BE RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

1.09 EQUIPMENT AND MATERIALS:

A. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, UNLESS INDICATED OTHERWISE, AND THE CURRENT MODEL FOR WHICH REPLACEMENT PARTS ARE AVAILABLE. SUBSTITUTIONS SHALL ONLY BE ACCEPTED AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE OR THE ENGINEER.

B. THE CONTRACTOR SHALL INSTALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE. THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS, UNLESS INDICATED

C. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED AUXILIARY ITEMS FOR A COMPLETE SYSTEM.

D. ALL EQUIPMENT SHALL BE MOUNTED VIBRATION FREE.

1.08 SHOP DRAWINGS: PROJECT EQUIPMENT AND MATERIALS SHOP DRAWINGS ARE TO BE SUBMITTED FOR REVIEW BEFORE INSTALLATION. SUBMIT SIX (6) COPIES OF SHOP DRAWINGS TO THE ENGINEER FOR REVIEW.

1.11 COORDINATION: THE CONTRACTOR SHALL INSTALL ALL PIPING, AS HIGH AS POSSIBLE TO MAXIMIZE HEADROOM. RUN PARALLEL OR PERPENDICULAR TO THE BUILDING WALLS IN A NEAT WORKMANLIKE MANNER. AVOID CONFLICT WITH EXISTING EQUIPMENT, LIGHTS, CABLE TRAYS, ETC. IF CONFLICT WITH EXISTING DOES OCCUR, THE CONTRACTOR SHALL REROUTE CONFLICTING PROJECT WORK AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.

1.09 SITE CLEANUP: UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE CONTRACT AREA AND ALL OTHER AREAS USED FOR STORAGE, STAGING, ETC. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO WASHING AND/OR REPAIRING GLASS, REMOVING SPOTS AND STAINS, CLEANING ALL FIXTURES AND WASHING ALL FLOORS, WALLS AND CEILINGS IF APPROPRIATE.

1.10 GUARANTEES: ALL EQUIPMENT, MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED IN FULL FROM DEFECT FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THIS WORK BY THE OWNER'S REPRESENTATIVE UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

1.11 TESTS AND DEMONSTRATIONS: THE CONTRACTOR SHALL TEST ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT AND DEMONSTRATE TO THE OWNER'S REPRESENTATIVE ITS PROPER OPERATION(S).

SECTION 200 - PLUMBING SPECIFICATIONS

2.01 GENERAL:

A. SEE SECTION 100 – GENERAL SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

B. THE CONTRACTOR SHALL SUBMIT THREE (3) COPIES OF SHOP DRAWINGS FOR THE FOLLOWING EQUIPMENT AND MATERIALS TO THE ENGINEER FOR REVIEW.

- PIPE MATERIALS AND JOINING METHODS
- INSULATION
- VALVES
- O&M MANUALS (TO OWNER ONLY)
- PLUMBING FIXTURES

2.02 PRODUCTS:

A. PIPING:

1. DOMESTIC HOT AND COLD WATER PIPING: (ABOVE GROUND) COPPER TUBING, ASTM B88 TYPE L, ASTM B813, WATER FLUSHABLE, LEAD FREE FLUX, ASTM B32 LEAD-FREE ALLOY SOLDER (HOT WATER PIPING SHALL BE INSULATED WITH R-VALUE 3 OR GREATER AS PER IECC 403.4.2) (BELOW GROUND) CPVC ASTM D 2846 WITH MECHANICAL COUPLING JOINTS.

2. SANITARY AND VENT PIPING: (BELOW GROUND) HUB AND SPIGOT, CAST IRON ASTM A74, ASTM C564 RUBBER GASKETED JOINTS.

(ABOVE GROUND) NO-HUB CAST IRON ASTM A888 WITH ASTM C1540 HEAVY DUTY 304 STAINLESS STEEL CLAMPS.

3. STORM WATER PIPING: (BELOW GROUND) HUB AND SPIGOT, CAST IRON ASTM A74, ASTM C564 RUBBER GASKETED JOINTS.

(ABOVE GROUND) NO-HUB CAST IRON ASTM A888 WITH ASTM C1540 HEAVY DUTY 304 STAINLESS STEEL CLAMPS.

B. PIPE INSULATION

1. MINERAL FIBER WITH ASJ JACKET.

INSULATION (INCLUDING JACKET, FACING AND ADHESIVE) SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURES LISTED IN ASTM E-84, NFPA 255 AND UL 273; NOT EXCEEDING A FLAME SPREAD OF 25 AND A SMOKE DEVELOPED OF 50.

2. "CW" PIPING: PROVIDE 1/2 IN. THICK FIBERGLASS SECTION PIPE COVERING WITH VAPOR BARRIER JACKET.

3. "HW" AND HWR PIPING: PROVIDE 1 IN. THICK FIBERGLASS SECTIONAL PIPE COVERING.

C. VALVES:

1. BALL VALVES:  
TWO-PIECE, BRONZE WITH FULL PORT AND BRONZE TRIM.

PLUMBING PIPING SYSTEMS LEGEND

-----	CW	DOMESTIC COLD WATER PIPING
-----	HW	DOMESTIC HOT WATER PIPING
-----	HWR	DOMESTIC HOT WATER RETURN PIPING
-----	TW	TEMPERED WATER PIPING
-----	(E)	EXISTING PIPING TO REMAIN
-----		EXISTING PIPING TO BE REMOVED
-----	S	SANITARY PIPING
-----	ST	STORM PIPING
-----	G	NATURAL GAS PIPING
-----		DEMOLITION

PLUMBING DRAWING ANNOTATIONS

①	PLAN KEY NOTE
⊕	CONNECT NEW TO EXISTING
△	REVISION SYMBOL
⊗ 1	RISER DESIGNATION

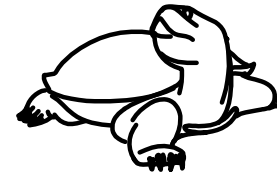
PLUMBING SYMBOLS LEGEND

┌─┐	BALL VALVE
┌─┐	CHECK VALVE
┌─┐	GAS SHUTOFF VALVE
┌─┐	BACKFLOW PREVENTER
┌─┐	STRAINER
┌─┐	UNION
┌─┐	PIPE CAP
┌─┐	PIPE CLEANOUT
┌─┐	PLUGGED OUTLET
┌─┐	WASTE AND TRAP
┌─┐	PIPE UP OR PIPE RISE
┌─┐	PIPE DN OR PIPE DROP
┌─┐	PIPE BOTTOM CONNECTION
┌─┐	PIPE TOP CONNECTION
┌─┐	PIPE BREAK OR CONTINUATION



LSG LANDSCAPE  
ARCHITECTURE

8260 GREENSBORO DRIVE  
SUITE 325  
TYSONS, VIRGINIA 22102  
703-821-2045



DIAMONDBACK  
ENGINEERING LLC

9501 Foxlair Place  
Gaithersburg, MD 20882  
T: 301.717.1353



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DULY LICENSED  
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MARYLAND.

LICENSE NO. 27084  
EXPIRATION DATE: 01/30/2026

ROCKVILLE SWIM  
& FITNESS CENTER  
355 MARTINS LANE  
ROCKVILLE, MD 20850



DEPARTMENT OF  
RECREATION AND PARKS

OUTDOOR  
RECREATION POOL  
RENOVATIONS

355 MARTINS LANE  
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SITE PLAN

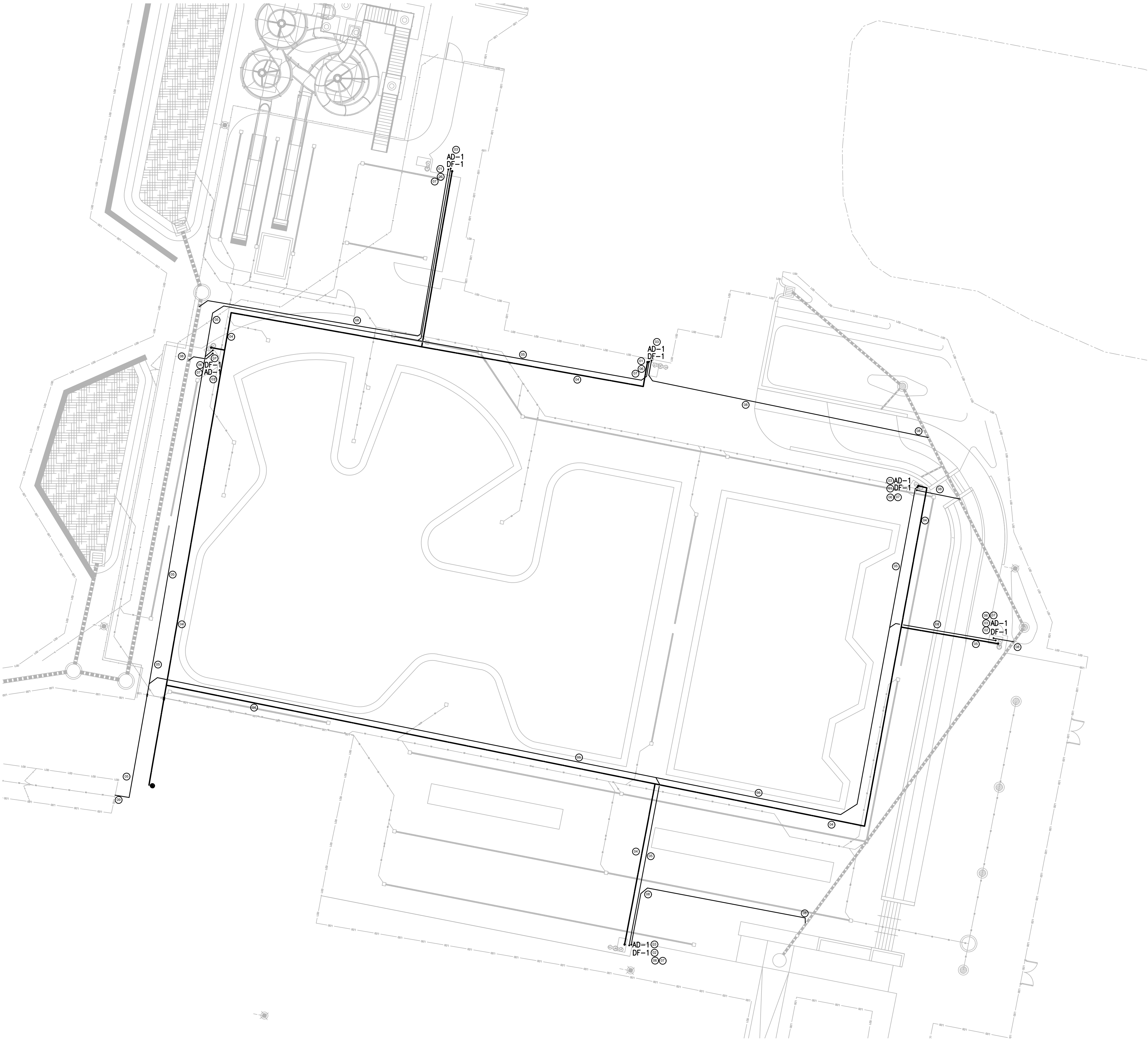
BID SET

GENERAL NOTES:

- A. EXISTING CONDITIONS, SIZES, AND INVERTS MUST BE FIELD VERIFIED BY CONTRACTOR. CONTRACTOR SHALL NOTIFY ARCHITECT & ENGINEER IMMEDIATELY OF ANY CONDITIONS WHICH REQUIRE DEVIATION FROM THE PLANS BEFORE PROCEEDING. INACCESSIBLE AREAS COULD NOT BE FIELD SURVEYED.
- B. SEE RISER DIAGRAMS FOR DOMESTIC CW, HW, SANITARY, AND VENT PIPING SIZES.
- C. SEE PAGE L313 FOR MORE DETAIL ON DRINKING FOUNTAINS.

SHEET NOTES:

- 01 DRINKING FOUNTAIN WITH FOOT SPRAY.
- 02 DRINKING FOUNTAIN.
- 03 AREA DRAIN TO STORM WATER.
- 04 DOMESTIC CW RUN BELOW GRADE. LOCATED AT A MINIMUM OF 6" BELOW MAXIMUM FROST DEPTH.
- 05 SANITARY WASTE RUN BELOW GRADE. LOCATED AT A MINIMUM 6" BELOW MAXIMUM FROST DEPTH BELOW FROST LINE.
- 06 DRINKING FOUNTAIN CONNECTED TO SANITARY LINE.
- 07 PROVIDE REMOVAL / WINTERPROOFING MEANS OF FIXTURE SANITARY TRAP AND DOMESTIC WATER LINE.
- 08 STORM WATER, TYPICAL. CONNECT TO STORM WATER.
- 09 SEE CIVIL DRAWINGS FOR CONTINUATION OF SANITARY LINE.

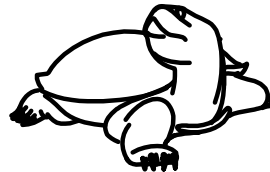


1 PLUMBING SITE PLAN  
1/16" = 1'-0"



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FLOOR PLAN

BID SET

1	65% CONSTRUCTION DOCUMENT	06/25/2023
2	80% CONSTRUCTION DOCUMENT	08/18/2023
3	95% CONSTRUCTION DOCUMENT	10/10/2023
4	PERMIT SET	12/08/2023
5	REVIEW SET	01/22/2024
6	BID SET	02/22/2024

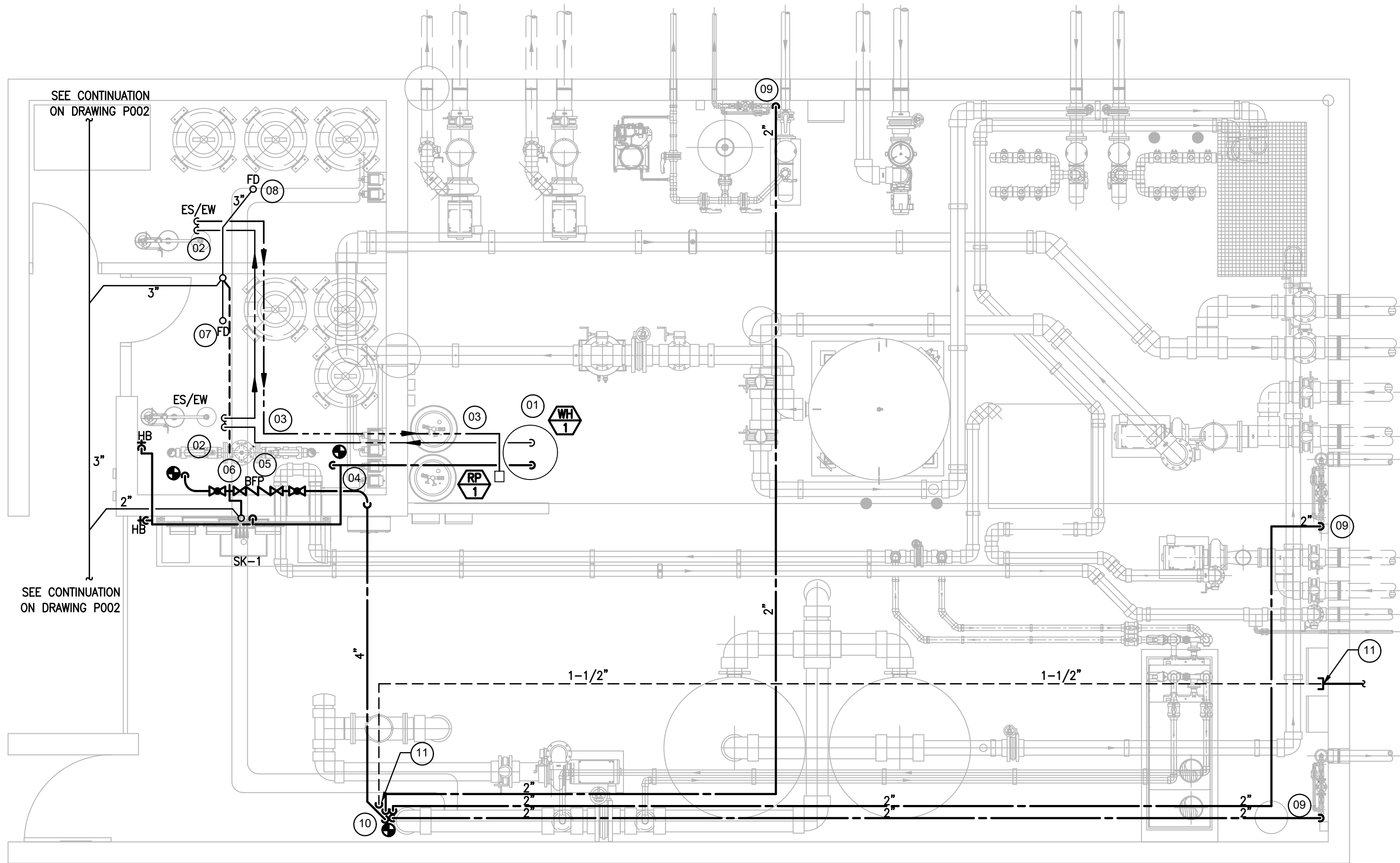
No.	Description	Date
Revisions		

Project Number: 22.00036.00  
Scale:  
Drawn By: AD, HW  
Checked By: AD  
Date: 5/19/2023

Sheet No.

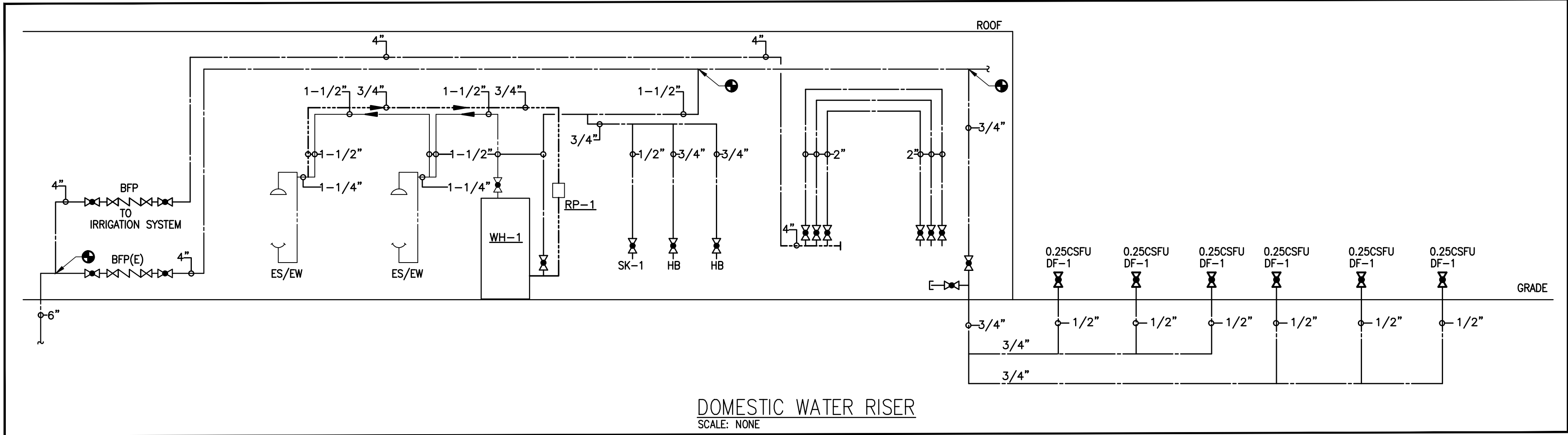
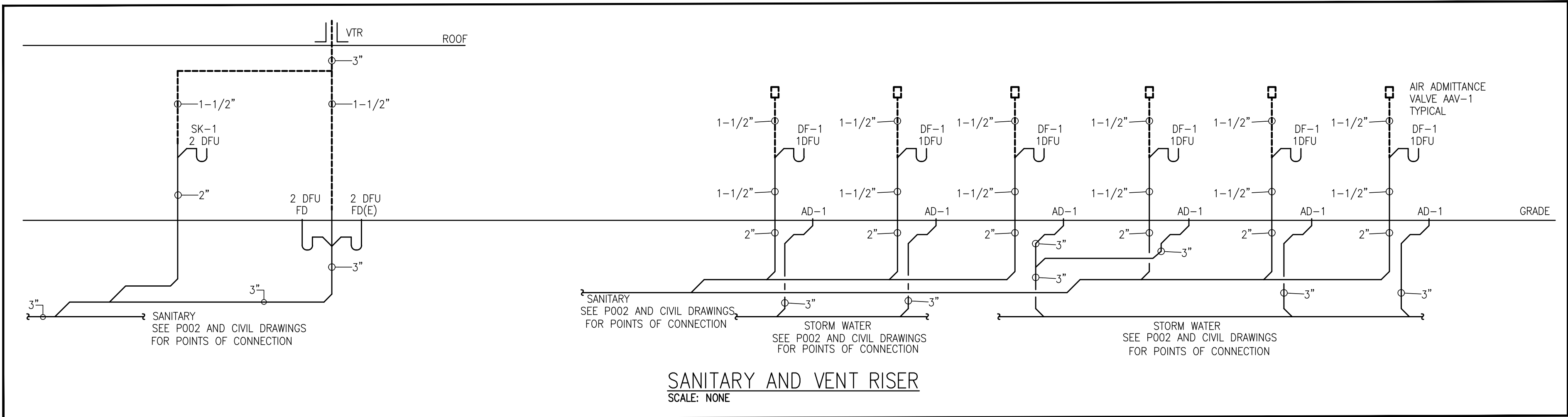
P003

BID SET 02/23/2024



1 PLUMBING PUMP ROOM  
1/14" = 1'-0"

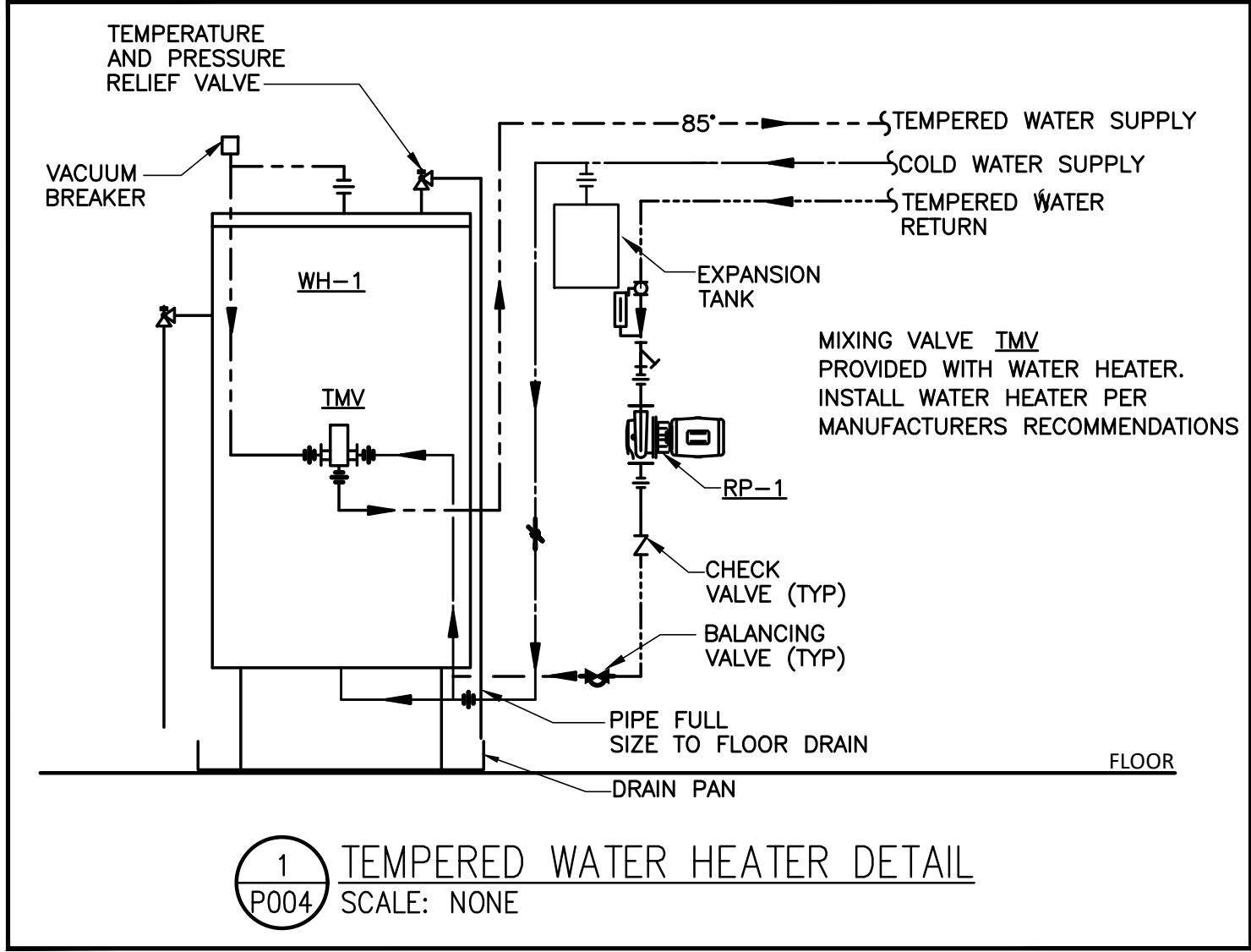




ELECTRIC WATER HEATER SCHEDULE										
DESIGNATION	DESCRIPTION	CAPACITY (GALLONS)	RECOVERY GPM	EWI (°F)	LWT (°F)	KW STAGES	V/PH/Hz	BASIS OF DESIGN	MODEL	NOTES
WH-1	ELECTRIC WATER HEATER	119	23	50	170	1 @ 6.0	208/3/60	HUBBELL	EMV-120	1,3,4
NOTES: 1. PROVIDE 5 GALLON EXPANSION TANK. 2. WATER HEATER MEETS STANDBY LOSS REQUIREMENTS OF THE US DEPARTMENT OF ENERGY AND CURRENT EDITION OF ASHRAE/IES 90.1 3. ANSI Z358.1 COMPLIANCE.										

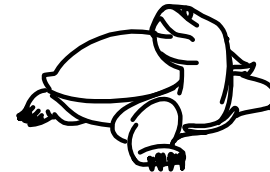
PUMP SCHEDULE								
DESIGNATION	DESCRIPTION	GPM	FT. HD.	HP	V/PH/Hz	BASIS OF DESIGN	MODEL	NOTES
RP-1	HOT WATER RECIRCULATION PUMP	0.5	5	28 WATTS	120/1/60	BELL & GOSSETT	ECOCIRC E3-4F/BSXRZ	1
NOTES: 1. PROVIDE BALANCING VALVE DOWNSTREAM OF PUMP. BALANCE TO FLOW OF 0.5 GPM.								

PLUMBING FIXTURE CONNECTION SCHEDULE										
MARK	DESCRIPTION	WASTE	VENT	CW	HW	TW	MODEL NUMBER	REMARKS		
DF-1	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1/2"	-	-	SEE ARCHITECTURAL	PROVIDE DRAIN VALVE AND REMOVABLE TRAP FOR WINTERIZING		
SK-1	SERVICE SINK	2"	1-1/2"	1/2"	1/2"	-	SEE ARCHITECTURAL			
AD-1	AREA DRAIN - STORM	3"	-	-	-	-				
ES/EW	EMERGENCY SHOWER/EYEWASH	-	-	-	-	1-1/4"	GUARDIAN MODEL G1902P			
FD	FLOOR DRAIN	3"	1-1/2"	-	-	-	ZURN MODEL Z415B	PROVIDE TRAP PRIMER		
AAV-1	AIR ADMITTANCE VALVE	-	-	-	-	-	QATEY CHROME 1-1/2"			
HB	HOSE BIBB	-	-	3/4"	-	-				



## LSG LANDSCAPE ARCHITECTURE

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01/30/2026

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DEPARTMENT OF  
RECREATION AND PARKS

## OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

## RISERS, SCHEDULES, AND DETAILS

## BID SET

1	65% CONSTRUCTION DOCUMENT 04/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	PERMIT SET 12/08/2023
5	REVIEW SET 01/22/2024
6	BID SET 02/22/2024

No.	Description	Date
Revisions		

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Scale:  
Drawn By: AD, HW  
Checked By: AD  
Date: 5/19/2023

Sheet No.

**P004**

**BID SET 02/23/2024**



AIR DEVICE SCHEDULE											
DESIGNATION	TYPE	CFM RANGE	NECK SIZE (IN)	FACE SIZE (IN X IN)	# OF SLOTS/ SLOT WIDTH (IN)	THROW (FT)	MAX APD (IN WG)	MAX N.C.	MATERIAL	BASIS OF DESIGN	NOTES
E1	35" DEFLECTION SIDEWALL EXHAUST GRILLE	0-2250	24x24	26x26	N/A	N/A	0.05	30	ALUMINIUM	TITUS 350RL	1.2
NOTES:  1. PROVIDE FRAME, FINISH, FOR IN DUCT INSTALLATION.  2. PROVIDE WITH OPPOSED BLADE DAMPER.											

THE EXHAUST FAN SHALL BE CONTROLLED BY A WALL MOUNTED LINE VOLTAGE THERMOSTAT. WHEN THE TEMPERATURE EXCEEDS 55 DEG F, THE FAN SHALL START AND THE MAKEUP AIR INTAKE DAMPER SHALL OPEN. UPON A FALL IN SPACE TEMPERATURE BELOW 55°F, THE REVERSE SHALL OCCUR.

2.5. ACTUATOR SHALL BE INTERLOCKED WITH ASSOCIATE EXHAUST FAN COORDINATE WITH ELECTRICAL ENGINEER FOR THE NEW PUMP ROOM LAYOUT. SEE "011000 - SUMMARY" 1.2 FOR MORE INFORMATION.

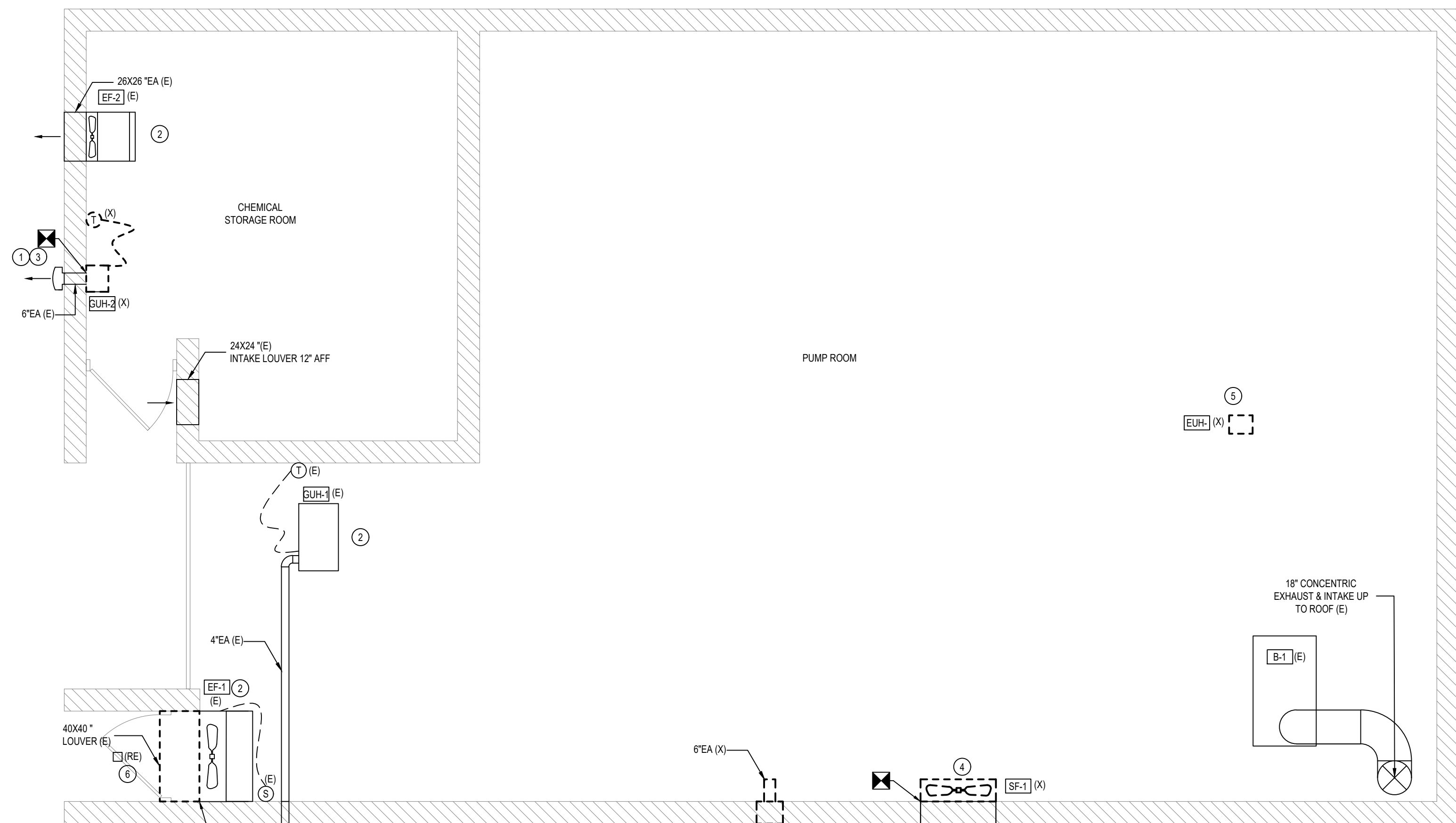
1. ALL DUCTWORK CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH:
  - 1.1 "THE HVAC DUCT CONSTRUCTION STANDARDS", 2005 EDITION BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA)
  - 1.2 "NFPA-90A: AIR CONDITIONING AND VENTILATING STANDARDS" BY THE NATIONAL FIRE PROTECTION AGENCY (NFPA)
2. ALL DUCTWORK SHALL HAVE A G60 GRADEABLE COATING COMPLYING WITH ASTM A 653/A 653M.
3. ALL DUCTWORK SHALL COMPLY WITH ASTM E2898 (ASTM E2898) ALLOW 300S, H14 TEMPERATURE, WITH MILL FINISH FOR CONCEALED DUCTS, AND STANDARD, ONE-SIDE BRIGHT FINISH FOR DUCT SURFACES EXPOSED TO VIEW.
3. DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING PRESSURE AND SEAL CLASSES:
4. ALL DUCTWORK OPERATING AT STATIC PRESSURES EQUAL TO OR GREATER THAN 3" WATER GAUGE SHALL BE LEAK TESTED IN ACCORDANCE WITH THE FOLLOWING:
  - 4.1 "HVAC AIR DUCT LEAKAGE TEST MANUAL" BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, (SMACNA)
5. DUCTWORK DIMENSIONS IDENTIFY ARE CLEAR SIDE RIGIDITY SHALL BE INCREASED TO COMPENSATE FOR THE THICKNESS OF DUCT LINING.

## Sheet No. 44 001

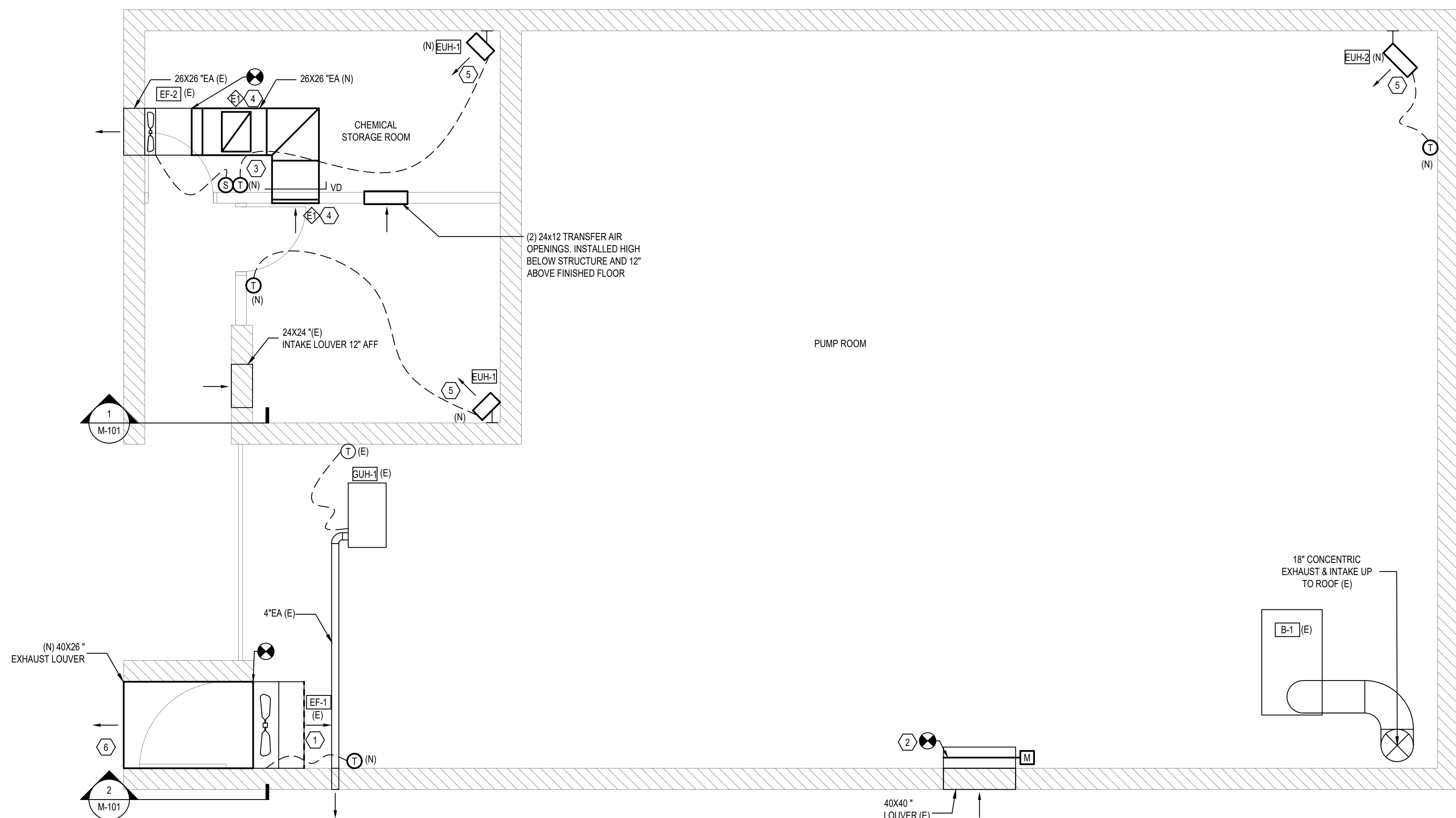
M-001

Page 746 of 747





## MECHANICAL ROOM - DEMOLITION PLAN



# MECHANICAL ROOM - NEW WORK PLAN

## DEMOLITION GENERAL NOTES

- A. FIELD VERIFY THE EXACT SIZES AND LOCATIONS OF ALL EXISTING EQUIPMENT PRIOR TO DEMOLITION OF ANY EXISTING WORK. THE DEMOLITION WORK SHALL BE COORDINATED WITH THE NEW WORK TO ASSURE PROPER LIMITS OF DEMOLITION.
- B. CONTRACTOR SHALL CONFIRM THAT ALL EXISTING EQUIPMENT IS OPERATIONAL PRIOR TO PERFORMING NEW WORK. IN THE EVENT THAT ANY EXISTING EQUIPMENT IS FOUND TO BE FAULTY, REPORT DEFICIENCIES TO BUILDING ENGINEER IN WRITING IMMEDIATELY.
- C. REMOVE ALL EXISTING EQUIPMENT AND ASSOCIATED PIPING AND DUCTWORK, WHETHER SPECIFICALLY INDICATED OR NOT, THAT IS NO LONGER REQUIRED.

## NEW WORK GENERAL NOTES

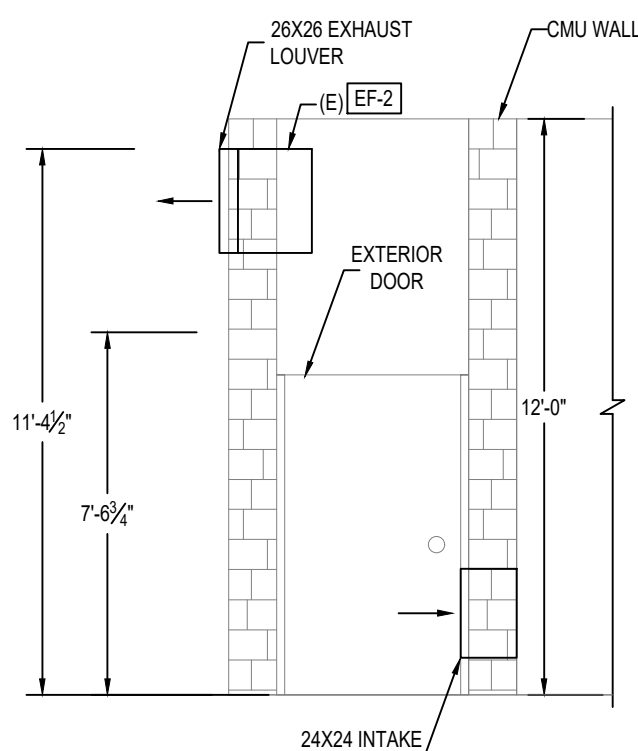
- A. CONTRACTOR SHALL CONFIRM THAT ALL EXISTING EQUIPMENT IS OPERATIONAL PRIOR TO PERFORMING NEW WORK. IN THE EVENT THAT ANY EXISTING EQUIPMENT IS FOUND TO BE FAULTY, REPORT DEFICIENCIES TO BUILDING ENGINEER IN WRITING IMMEDIATELY.
- B. SEE MECHANICAL SPECIFICATIONS SECTION "230923 - CONTROLS" FOR ADDITIONAL INFORMATION.
- C. COORDINATE WITH AQUATICS DRAWINGS FOR POOL HEATER EXHAUST AND FRESH AIR MODIFICATIONS.

## KEYED NOTES - DEMOLITION

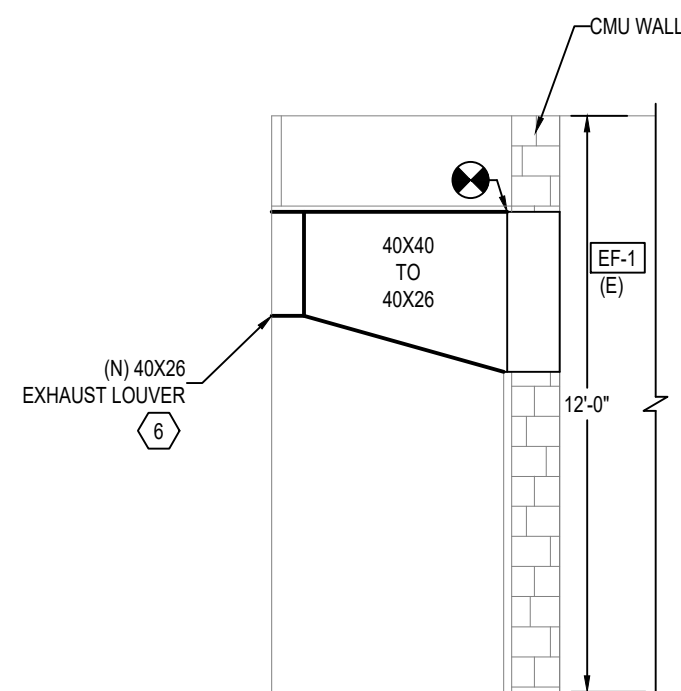
1. CONTRACTOR TO PATCH AND SEAL THE EXISTING VENT PIPE OPENING, TO MATCH THE EXISTING FINISHES.
2. CLEAN EXISTING EQUIPMENT TO REMAIN, VERIFY EQUIPMENT IS FULLY FUNCTIONAL., REPLACE ANY FAULTY PARTS.
3. REMOVE EXISTING GAS UNIT HEATER & ASSOCIATE CONTROL, NATURAL GAS PIPING AND VENT (PATCH WALL TO MATCH EXISTING
4. REMOVE EXISTING SIDE WALL FAN & ASSOCIATE CONTROL. CLEAN THE LOUVER.
5. REMOVE EXISTING ELECTRIC UNIT HEATER, ASSOCIATE SUPPLY POWER TO THE SOURCE, AND CONTROLS IN ITS ENTIRETY.
6. CONTRACTOR TO RELOCATE HANGING LIGHT. FOR NEW LOCATION, MODEL, AND CONTROL. REFER TO THE ELECTRICAL DRAWINGS.


## KEYED NOTES - NEW WORK

1. INSTALL NEW SIDEWALL E/F-1 FAN UP TO THE EXISTING LOUVER. REUSE EXISTING POWER SUPPLY. INSTALL NEW LINE VOLTAGE THERMOSTAT. INTERLOCK CONTROL WITH NEW INTAKE MOTORIZED DAMPER.
2. INSTALL NEW MOTORIZED CONTROL DAMPER. PRIOR TO ORDERING THE NEW DAMPER CONTRACTOR MUST VISIT THE SITE, MEASURE EXISTING LOUVER SIZE AND SELECT PROPER DIMENSION. NEW DAMPER MUST BE FULLY ATTACHED AND SEALED TO EXISTING LOUVER.
3. INSTALL SWITCH ON THE WALL, INSTALL NEW SWITCH FOR EF-2.
4. BALANCE AIR EQUALLY IN EACH STORAGE ROOM TO THE MAXIMUM (E) EF-2 CAN ACHIEVE.
5. INSTALL NEW ELECTRIC UNIT HEATER FOR POWER SEE ELECTRICAL DRAWINGS.
6. LOUVER SHALL BE WEATHER PROOF, WATER DRAINABLE W/ MINIMUM 50% FREE AREA. FOR COLOR & FINISHES COORDINATE WITH ARCHITECT.



**SECTION PLAN**  
SCALE: 1/4" = 1'-0"



 **SECTION PLAN**  
SCALE: 1/4" = 1'-0"

LSG LANDSCAPE  
ARCHITECTURE

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SUITE 325  
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PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 32150, EXPIRATION DATE 7/18/2025.

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& FITNESS CENTER  
355 MARTINS LANE  
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DEPARTMENT OF  
RECREATION AND PARKS

# OUTDOOR RECREATION POOL RENOVATIONS

355 MARTINS LANE  
CITY OF ROCKVILLE, MARYLAND

# MECHANICAL ROOM DEMOLITION & NEW WORK PLANS

## PERMIT SET

1	65% CONSTRUCTION DOCUMENT 06/25/2023
2	80% CONSTRUCTION DOCUMENT 08/18/2023
3	95% CONSTRUCTION DOCUMENT 10/10/2023
4	PERMIT SET 12/08/2023

No.	Description	Date
Revisions		

Project Number: 22.00036.00  
Scale: AS NOTED  
Drawn By: TTN

Checked By: RMD  
Date: RMD

Sheet No. M-101

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