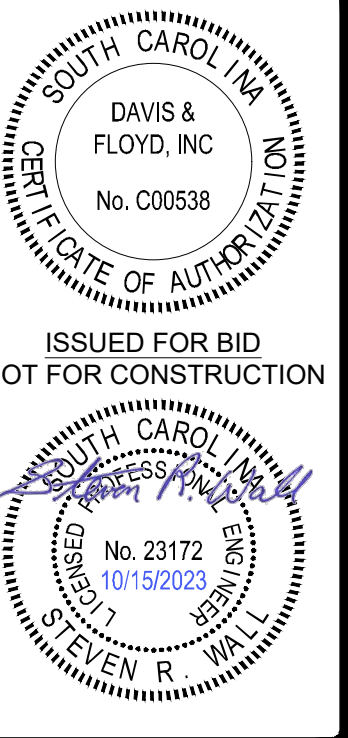


SOUTHSIDE PARK - PHASE I

CITY OF BEAUFORT PROJECT ID # 2024-105

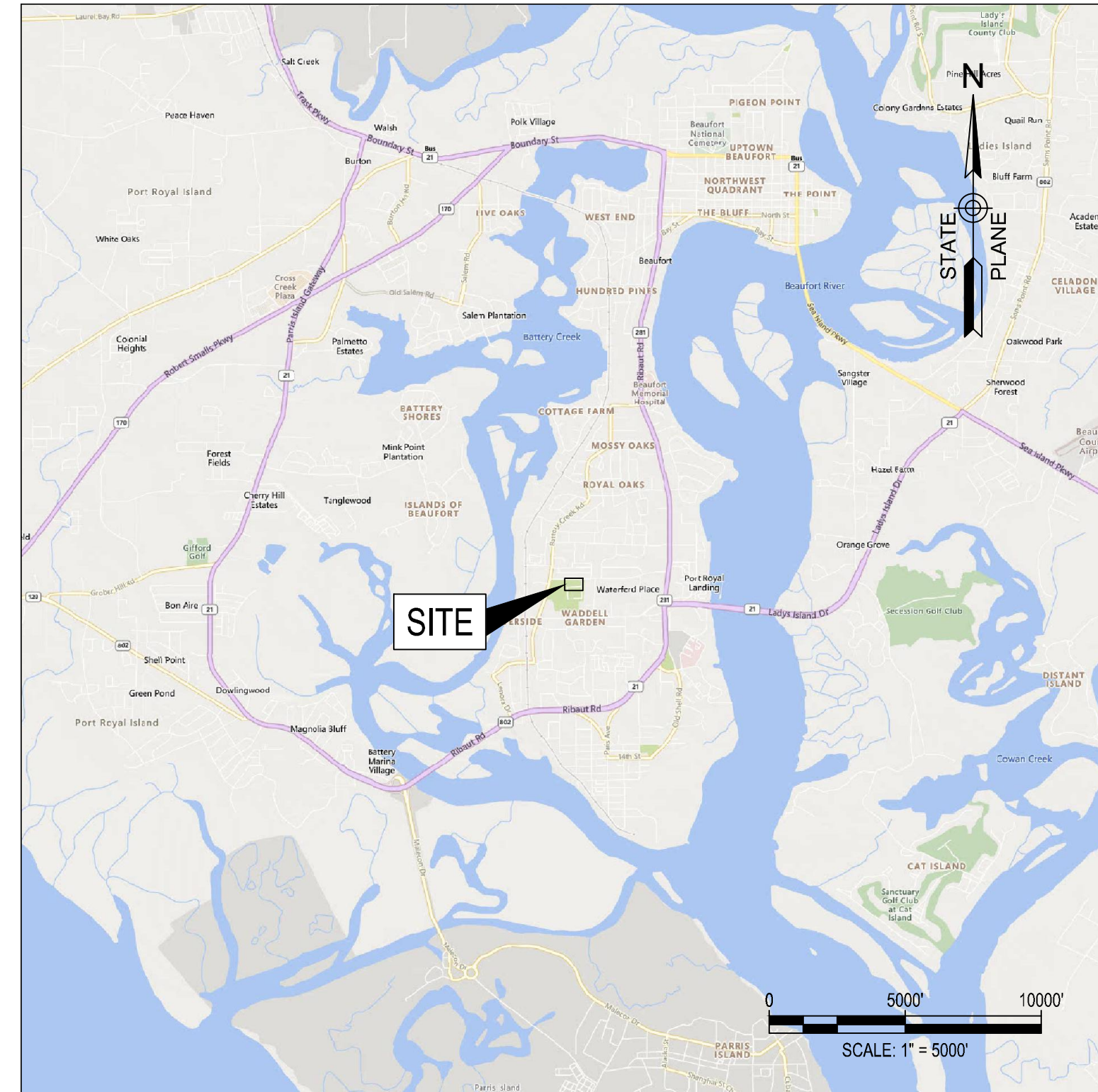
CITY OF BEAUFORT
BEAUFORT, SC 29902



CITY OF BEAUFORT
BEAUFORT, SC 29902
PROJECT TITLE
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

COVER SHEET

| NO. | DATE | DESCRIPTION |
|-----|------------|-------------------|
| 1 | 03/20/24 | ISSUE FOR BIDDING |
| 2 | 10/16/2023 | ISSUE FOR BIDDING |



LOCATION MAP



VICINITY MAP

| PROJECT SUMMARY | |
|-----------------------------|--|
| LOCAL PROJECT NAME: | SOUTHSIDE PARK PHASE I PLAYGROUND AREA IMPROVEMENTS |
| PROJECT ADDRESS: | BATTERY CREEK ROAD, BEAUFORT, SOUTH CAROLINA |
| PROJECT DESCRIPTION: | THE PROPOSED CONSTRUCTION ACTIVITIES FOR THIS PROJECT WILL INCLUDE THE CONSTRUCTION OF A PAVILION AND PLAYGROUND AREA TO INCLUDE PAVING A NEW PARKING LOT, SITE ELECTRICAL IMPROVEMENTS, SITE GRADING, STORM WATER DRAINAGE IMPROVEMENTS, AND WATER AND SEWER SERVICE CONNECTIONS. |
| TAX MAP PARCEL INFORMATION: | PIN: R120 008 000 0015 |
| SITE ACREAGE: | 33.8 AC |
| HIGHLAND ACRES: | 32.2 AC |
| WETLANDS: | 1.6 AC |
| DISTURBED ACRES: | 9.0 AC |
| SITE ZONING: | T1 (NATURAL PRESERVE DISTRICT) |
| ADJACENT ZONING: | |
| NORTH: | SOUTHSIDE BLVD (SCDOT S-253) |
| SOUTH: | WADDELL ROAD (SCDOT S-233) |
| EAST: | TALBIRD ROAD (SCDOT S-504) |
| WEST: | BATTERY CREEK ROAD (SCDOT S-159) |
| PARKING SUMMARY: | |
| TOTAL PROVIDED: | 45 |
| NORMAL SPACES: | 43 |
| ADA SPACES: | 2 |
| PERMIT SUMMARY: | PERMIT #/FILE #: |
| CITY OF BEAUFORT ID | 2024-105 |
| USACE JD | SAC-2018-01477 |
| SCDHEC NPDES | |
| SCDHEC CZC | |
| DEED REFERENCES | BOOK 3637 PAGE 1497-1502 |
| BLANKET EASEMENT | RECORDED AT BEAUFORT COUNTY ROD ON 01/17/2018 |

EXISTING UTILITY NOTE

EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDIVIDUALLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

ADA NOTES

- ALL PUBLIC RIGHT-OF-WAYS AND ALL AMENITIES WILL BE ADA COMPLIANT.
- PUBLIC RIGHT-OF-WAYS MUST REMAIN ADA COMPLIANT THROUGHOUT CONSTRUCTION OR AN ALTERNATIVE ROUTE MUST BE PROVIDED.

| DESIGN TEAM | | | | |
|--|---|---|--|---|
| OWNER | CIVIL ENGINEER | LANDSCAPE ARCHITECT | SURVEYOR | WETLAND CONSULTANT |
| CITY OF BEAUFORT LINDA ROPER 500 CARTERET STREET, SUITE B2 BEAUFORT, SC 29902 (843) 525-7084 | DAVIS & FLOYD, INC STEVEN WALL, PE 1940 ALGONQUIN ROAD, SUITE 301 CHARLESTON, SC 29405 (843) 554-8602 | WOOD + PARTNERS KYLE THEODORE 7 LAFAYETTE PLACE HILTON HEAD ISLAND, SC 29926 (843) 681-6618 | ANDREWS ENGINEERING CO, INC JOHN GRAY, PLS 2712 BULL STREET, SUITE A BEAUFORT, SC 29902 (843) 379-2222 | MCCORMICK TAYLOR BRIAN ROBERTS, PWS 500 TRINITY ROAD - SUITE 102 RALEIGH, NC 27607 (919) 233-9865 |

SOUTHSIDE PARK - PHASE I
BJWSA PROJECT # 2023-098



100% SUBMITTAL - ISSUED FOR BID
NOT FOR CONSTRUCTION
ISSUED: 10/16/2023

G:\Jobs\1032024-001\Production\Civil\Drawings\032024-00-GENERAL.dwg, 10/15/2023 5:36:10 PM, brando.a. lurske
THESE DRAWINGS AND THE DESIGN THEREON ARE THE PROPERTY OF DAVIS & FLOYD, INC. AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF THE ENGINEER, ARCHITECT AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION

GENERAL CONSTRUCTION NOTES

- 1. ELEVATION DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. HORIZONTAL DATUM: SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM OF 1983 BASED ON INTERNATIONAL FEET (SC83IF).
3. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, LOCAL, AND OTHER APPLICABLE AGENCY REGULATIONS.
4. CONTRACTOR SHALL HOLD ALL PERMITS IN HAND PRIOR TO COMMENCEMENT OF WORK.
5. THE CONTRACTOR MUST ACQUIRE COPIES OF ALL REQUIRED PERMITS, STAMPED APPROVED AGENCY PLANS, OS-SWPPP, AND OTHER SUCH REQUIRED DOCUMENTS TO KEEP ON-SITE THROUGHOUT CONSTRUCTION FOR AGENCY INSPECTORS, THE OWNER, AND OTHER AUTHORIZED OFFICIALS.
6. CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, COMPLIANCE WITH OSHA REQUIREMENTS, SCOPE OF WORK, AND COMPLIANCE WITH ALL NECESSARY PERMITS.
8. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETED PROJECT.
9. THE CONTRACTOR SHALL PROVIDE 'AS-BUILT' RECORD DRAWINGS AS SPECIFIED OR REQUIRED IN THE CONTRACT DOCUMENTS. FINAL PAYMENT FOR THE WORK WILL NOT BE MADE UNTIL THE 'AS-BUILT' RECORD DRAWINGS HAVE BEEN COMPLETED AND DELIVERED AS INDICATED ABOVE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LINES, GRADES AND CONSTRUCTION STAKING FOR THE PROJECT.
11. THE CONTRACTOR SHALL ADVISE THE ENGINEER IF EXISTING GRADES THAT ARE TO REMAIN ARE IN CONFLICT WITH PROPOSED WORK, CAUSING LIMITATIONS IN DRAINAGE PERFORMANCE OR SIGNIFICANT CHANGES IN CONSTRUCTION LIMITS DEFINED WITH CUT OR FILL LIMITS AND SPECIFICALLY THAT WORK WHICH MAY RESULT IN ANY CONSTRUCTION TAKING PLACE OUTSIDE OF PROPOSED CONSTRUCTION LIMITS.
12. THE CONTRACTOR SHALL NOTIFY AGENCIES HAVING JURISDICTION AS NECESSARY OF THE ANTICIPATED SCHEDULE FOR INSPECTIONS PRIOR TO CONSTRUCTION.
13. THE CONTRACTOR SHALL MAINTAIN EXISTING 2-WAY TRAFFIC FLOW AT ALL TIMES, EXCEPT AS NOTED IN THE PLANS, AND SHALL PROVIDE FLAG MEN AND APPROPRIATE TRAFFIC CONTROLS AS NEEDED. FOR WORK REQUIRING A TRAFFIC CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE THE CITY OF BEAUFORT AND/OR SCDOT AND OTHERS AS REQUIRED A COPY OF THE TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO COMMENCEMENT OF THE ASSOCIATED WORK, AND ANY CHANGES TO THIS PLAN SHALL BE APPROVED BY THE CITY OF BEAUFORT AND/OR SCDOT AND OTHERS AS REQUIRED PRIOR TO IMPLEMENTATION OF CHANGES.
14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN THEIR OWN TEMPORARY RESTROOM FACILITIES ON-SITE FOR WORK CREW USE.
15. ALL EXISTING ROADS SHOWN ON THE PLANS ARE PAVED UNLESS OTHERWISE NOTED.
16. THE CONTRACTOR SHALL PROTECT AND/OR RESTORE ANY CONTRACTOR RELATED IMPROVEMENTS OR DAMAGE ON THE OWNERS PROPERTY, EASEMENTS, OR ANY ADJOINING PROPERTIES TO MEET OR EXCEED EXISTING CONDITIONS.
17. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE NPDES PERMIT AND GUIDELINES OF THE SCDHEC BMP HANDBOOK DURING THE ENTIRE CONSTRUCTION PERIOD. SEDIMENT AND EROSION CONTROL, BEST MANAGEMENT PRACTICES (BMPs) SHALL INCLUDE, BUT NOT BE LIMITED TO, SILT FENCES, BERMS, INLET PROTECTION, ETC. AS NEEDED OR AS DIRECTED BY THE ENGINEER.
18. RUBBER SAFETY CAPS SHALL BE INSTALLED ON THE TOPS OF ALL STEEL POSTS USED FROM CONSTRUCTION OF BMPs.
19. CLEAR AND GRUB WITHIN WORK LIMITS FOR ALL SURFACE VEGETATION, TREES, STUMPS, BRUSH, ROOTS, ETC. DO NOT DAMAGE OR REMOVE SIGNIFICANT TREES EXCEPT AS SHOWN ON THE DRAWINGS.
20. DISPOSAL OF EXCESS EXCAVATED MATERIALS OFF-SITE AND HAULING OF FILL MATERIALS REQUIRED FOR CONSTRUCTION SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.
21. WHERE ROADWAY DITCHES AND DRAINAGE PIPES ARE DAMAGED OR DISTURBED, THE CONTRACTOR SHALL RELAY DRAINAGE PIPE TO ORIGINAL INVERT ELEVATIONS AND RE-GRADE DITCHES TO ESTABLISH POSITIVE DRAINAGE.
22. AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH GRASS, SOD, MULCH, ETC. PER PLANS AND DETAILS, OR AT THE DIRECTION OF THE ENGINEER AS MAY BE APPLICABLE.

EXISTING UTILITIES AND FACILITIES

- 1. THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM A COMBINATION OF AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND/OR DEPTHS AS NEEDED OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE EXTREME CAUTION WHEN WORKING NEAR EXISTING POWER, GAS, AND COMMUNICATIONS LINES.
2. THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING PROPERTY AND STREET MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL CALL PALMETTO UTILITY PROTECTION SERVICE (PUPS) AND ANY LOCAL UTILITY COMPANY NOT REPRESENTED BY PUPS A MINIMUM OF 72 HOURS PRIOR TO STARTING ANY PROPOSED WORK (811).
4. THE CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY AGENCY A MINIMUM 72 HOURS IN ADVANCE OF ANY EXCAVATION OR LAND DISTURBANCE NEAR EXISTING UTILITY LINES LOCATED ABOVE OR BELOW GROUND.
5. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL PROTECT AND MAINTAIN UTILITY SERVICE TO ALL EXISTING BUILDINGS AT ALL TIMES. IF THE CONTRACTOR REQUIRES AN INTERRUPTION TO ANY UTILITY SERVICE, THEY MUST NOTIFY THE EXISTING PROPERTY OWNER, THE APPLICABLE AGENCY, THE PROJECT OWNER, AND ENGINEER IN WRITING A MINIMUM OF 72 HOURS PRIOR TO THE DESIRED INTERRUPTION TO COORDINATE AND SCHEDULE TEMPORARY DISRUPTIONS AND RECONNECTION OF UTILITIES.
6. ALL UTILITY CROSSINGS SHALL BE POT-HOLED PRIOR TO EXCAVATING OR BORING TO ALLOW THE CONTRACTOR TO PREVENT GRADE OR ALIGNMENT CONFLICTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION TO MAKE NECESSARY GRADE MODIFICATION WITHOUT DELAYING THE WORK. IF GRADE MODIFICATION IS NECESSARY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER. THE DESIGN ENGINEER SHALL OBTAIN APPROVAL FROM THE OWNER AND UTILITY COMPANY HAVING JURISDICTION.
7. RELOCATION, REMOVAL, OR ABANDONMENT OF EXISTING UTILITIES OWNED/MAINTAINED BY OTHER AGENCIES (WATER, SEWER, GAS, POWER, COMMUNICATIONS, ETC.) SHALL BE COORDINATED BY THE CONTRACTOR.
8. ANY MODIFICATION TO UTILITY LAYOUT, MATERIALS, ETC. SHALL BE COORDINATED WITH AND APPROVED BY THE DESIGN ENGINEER AND APPLICABLE AGENCY PRIOR TO ORDERING MATERIALS OR MAKING ANY SUCH CHANGES.
9. INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF DEMOLISHED SERVICES AND ABANDONED UTILITIES.
10. ALL EXISTING FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE DEPICTED ON THE PLANS OR DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES NOT INDICATED TO BE REMOVED AT ALL TIMES DURING CONSTRUCTION. ALL EXISTING STRUCTURES, INCLUDING BUT NOT LIMITED TO SIGNS AND DRIVES DISTURBED DURING CONSTRUCTION THAT ARE NOT SHOWN TO BE PERMANENTLY DEMOLISHED SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER.
11. THE CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING SURFACE FEATURES (UNLESS INDICATED TO BE PERMANENTLY DEMOLISHED) NECESSARY FOR INSTALLATION/REMOVAL OR ALL UNDERGROUND AND ABOVE GROUND WORK AS INDICATED ON THESE PLANS AND IN THE SCOPE OF WORK. THIS SHALL INCLUDE BUT NOT BE LIMITED TO FENCES, CURB & GUTTER, LANDSCAPING, SIDEWALKS, AND PAVEMENT.
12. ANY PAVEMENT DAMAGED DURING CONSTRUCTION THAT IS NOT INDICATED TO BE PERMANENTLY DEMOLISHED SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. ANY BROKEN PAVEMENT EDGES SHALL BE SAW-CUT IN A SMOOTH STRAIGHT LINE AND THE PAVEMENT REPLACED TO MATCH EXISTING GRADES.
13. DRAINAGE PIPES DESTROYED DURING CONSTRUCTION (WHICH ARE NOT INDICATED TO BE PERMANENTLY DEMOLISHED) ARE TO BE REPLACED AT A MINIMUM WITH NEW CLASS III - WALL B REINFORCED CONCRETE PIPE COMPLYING WITH ASTM C76, OR WITH OTHER OWNER APPROVED EQUIVALENT PIPE MATERIAL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SUCH INSTANCES TO ENSURE MATERIAL COMPATIBILITY WITH THE EXISTING SOIL CONDITIONS FOR THIS SITE.
14. ANY SEPTIC TANKS ENCOUNTERED DURING CONSTRUCTION SHALL BE PUMPED OUT BY A CERTIFIED COMPANY, THE TANK EXCAVATED, AND DISPOSED OF PER INDUSTRY STANDARDS.
15. ANY FUEL TANKS ENCOUNTERED SHALL BE REMOVED AND DISPOSED OF PER SCDHEC REQUIREMENTS, BACKFILL WITH COMPACTED GRANULAR MATERIAL.
16. ANY OTHER TYPES OF WELLS, TANKS, PIPES, STRUCTURES ETC., ENCOUNTERED SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER. IN THE EVENT CONTAMINATED OR HAZARDOUS MATERIAL IS ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER IMMEDIATELY.

GRADING, PAVING AND DRAINAGE

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES AT ALL TIMES TO ENSURE THAT PUBLIC STREETS AND RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD, DUST, OR DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.
2. FOR GRADING, PAVING, AND DRAINAGE WORK LOCATED WITHIN SCDOT AND/OR PUBLIC RIGHTS-OF-WAY, ALL MATERIALS AND EQUIPMENT, UNLESS SPECIFICALLY STATED OTHERWISE HEREIN, SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.
3. STRIP WORK LIMITS: REMOVING ALL ORGANIC MATTER WHICH CAN NOT BE COMPACTED INTO A STABLE MASS. ALL TREES, BRUSH, AND DEBRIS ASSOCIATED WITH CLEARING, STRIPPING, OR GRADING SHALL BE REMOVED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. ANY TREES MARKED OR SUSPECTED OF BEING PROTECTED SHALL BE COORDINATED THROUGH THE OWNER, ENGINEER, AND THE LOCAL JURISDICTION PRIOR TO REMOVAL.
4. UNLESS SPECIFICALLY STATED OTHERWISE, ALL FILL SHALL BE APPROVED BY THE ENGINEER AND CONSTRUCTED IN 10' LIFTS MAXIMUM WITH HEAVY COMPACTION EQUIPMENT. EACH LIFT SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO T-190 TEST METHOD (MODIFIED PROCTOR) AND BE WITHIN 3% OF THE OPTIMUM MOISTURE CONTENT.
5. ALL FILL MATERIALS SHALL BE COMPACTED IN LIFTS TO THE DESIRED COMPACTION RATES WITH FIELD DENSITY TEST REPORTS DOCUMENTING THAT THE REQUIREMENTS HAVE BEEN ACHIEVED. ALLOW INSPECTING AGENCY TO INSPECT AND TEST SUBGRADES AND EACH FILL OR BACKFILL LAYER. PROCEED WITH SUBSEQUENT EARTH MOVING ONLY AFTER TESTING RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH REQUIREMENTS. WHEN TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCARIFY, MOISTEN, AND AERATE OR REMOVE AND REPLACE SOIL MATERIALS TO DEPTH REQUIRED. RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.
6. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, NO FILL SLOPES SHALL BE CONSTRUCTED STEEPER THAN 3H:1V.
7. THE CONTRACTOR SHALL FURNISH, INSTALL, MONITOR, AND MAINTAIN EXCAVATION OPEN-TRENCH SUPPORT AND PROTECTION SYSTEMS CAPABLE OF SUPPORTING EXCAVATION SIDEWALLS AND OF RESISTING SOIL AND HYDROSTATIC PRESSURE AND SUPERIMPOSED AND CONSTRUCTION LOADS, PREVENT SURFACE WATER FROM ENTERING EXCAVATIONS BY GRADING, DIKES, OR OTHER MEANS, INSTALL EXCAVATION SUPPORT AND PROTECTION SYSTEMS WITHOUT DAMAGING EXISTING BUILDINGS, STRUCTURES, AND SITE IMPROVEMENTS ADJACENT TO EXCAVATION, MONITOR VIBRATIONS, SETTLEMENTS, AND MOVEMENTS, SHOW EXISTING CONDITIONS OF ADJACENT CONSTRUCTION AND SITE IMPROVEMENTS WITH PHOTOGRAPHS AND OR VIDEOS THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY THE ABSENCE OF, THE INSTALLMENT OF, OR THE PERFORMANCE OF EXCAVATION SUPPORT AND PROTECTION SYSTEMS AND SUBMIT BEFORE WORK BEGINS.
8. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO GRADES THAT RESULT IN POSITIVE DRAINAGE TO THE EXISTING AND/OR NEW STORM DRAINAGE INLETS, UNLESS OTHERWISE NOTED.

STORM WATER SYSTEM NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER DRAINAGE OF EXISTING STORM SEWER LINES AND CHANNELS DURING CONSTRUCTION WORK.
2. NEW STORM WATER SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF BEAUFORT - SOUTHERN LOWCOUNTRY STORMWATER DESIGN MANUAL AND/OR SCDOT SPECIFICATIONS AND REQUIREMENTS.
3. THE GRADE OF THE GRAVITY STORM PIPES SHALL BE MAINTAINED AT A CONSTANT SLOPE BETWEEN INVERT ELEVATIONS.
4. UNLESS SPECIFICALLY NOTED OTHERWISE, REINFORCED CONCRETE PIPE (RCP) SHALL BE ASTM C-76, CLASS III - WALL B WITH GASKETED JOINTS PER ASTM C443. THE EXTERIOR OF THE JOINTS FOR ALL RCP SHALL BE WRAPPED WITH FILTER FABRIC, MINIMUM 18" IN WIDTH.
5. ALL MANHOLE LIDS AND CATCH BASINS SHALL CONTAIN A LABEL IDENTIFYING THE SYSTEM AS STORMWATER AND MARKED WITH AN APPROPRIATE STORMWATER AWARENESS MESSAGE SUCH AS 'NO DUMPING - DRAINS TO WATERWAYS.'
6. AT THE COMPLETION OF CONSTRUCTION WHEN THE SITE IS FULLY STABILIZED, THE CONTRACTOR SHALL CLEAN ALL STORMWATER DRAINAGE SYSTEMS WITHIN THE PROJECT LIMITS.

WATER SYSTEM NOTES

- 1. WATER INSTALLATION SHALL BE IN ACCORDANCE WITH THE 'TEN STATES STANDARDS', SCDHEC REGULATIONS, AND BWSA DEVELOPMENT POLICY & PROCEDURE MANUAL AND APPROVED TECHNICAL SPECIFICATIONS, LATEST EDITION, FOUND AT https://bwsa.org/development-manual/.

WASTEWATER SYSTEM NOTES

- 1. WASTEWATER INSTALLATION SHALL BE IN ACCORDANCE WITH THE 'TEN STATES STANDARDS', SCDHEC REGULATIONS, AND BWSA DEVELOPMENT POLICY & PROCEDURE MANUAL AND APPROVED TECHNICAL SPECIFICATIONS, LATEST EDITION, FOUND AT https://bwsa.org/development-manual/.

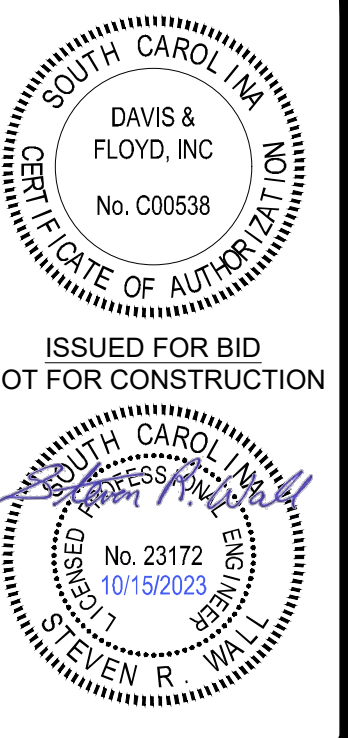
PROJECT CLOSEOUT NOTES

- 1. ALL SUBMITTED RECORD DRAWINGS AND ASBUILT SURVEYS MUST INCLUDE AND REFERENCE THE LATEST PERMITTED PLANS.
2. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED RECORD (AS-BUILT) DRAWINGS, PIPE VIDEOS, VALVE CARDS, AND TESTING FORMS TO CLOSE-OUT UTILITY PERMITS AS APPLICABLE.
3. A PERMANENT STORMWATER FACILITY MAINTENANCE AND RESPONSIBILITY AGREEMENT AND RECORD (AS-BUILT) DRAWINGS MUST BE COMPLETED IN ACCORDANCE WITH CITY OF BEAUFORT SPECIFICATIONS BEFORE A CERTIFICATE OF OCCUPANCY AND A NOTICE OF TERMINATION OF THE CONSTRUCTION GENERAL PERMIT WILL BE APPROVED.

CONTRACTOR COORDINATION NOTES

- 1. PLAYGROUND EQUIPMENT AREAS - GENERAL CONTRACTOR TO INSTALL AND COMPACT SUBGRADE, INSTALL FILTER FABRIC, AND INSTALL PERFORATED PIPE WITH CONNECTIONS TO DRAIN PLAYGROUND AREA SYSTEM AS PART OF THIS CONTRACT. GENERAL CONTRACTOR TO COORDINATE AND SCHEDULE WITH OWNERS PLAYGROUND CONTRACTOR FOR THEIR INSTALLATION OF PLAYGROUND SURFACE AND EQUIPMENT.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING WORK BY OTHERS: PLAYGROUND EQUIPMENT, SAFETY SURFACING, OWNER PROVIDED SITE FURNISHINGS, AND IT WHI AND SECURITY CAMERAS.

Table with 4 columns: FIRM/AGENCY/UTILITY, CITY OF BEAUFORT, PHONE, CONTACT. Includes entries for OWNER/DEVELOPER, CIVIL ENGINEER, LANDSCAPE ARCHITECT, SURVEYOR, GEOTECHNICAL ENGINEER, WETLANDS CONSULTANT, COMMUNITY DEVELOPMENT DIRECTOR, PUBLIC WORKS, SCDHEC - NPDES, SCDHEC - OCRM, and WATER & SEWER.



DAVIS & FLOYD logo with 'SINCE 1854' and 'WOOD+PARTNERS LANDSCAPE ARCHITECTURE LAND PLANNING' logo.

CITY OF BEAUFORT logo and SOUTH SIDE PARK - PHASE I PLAYGROUND AREA IMPROVEMENTS project title.

GENERAL NOTES section with a table for revision tracking (NO., DATE, DESCRIPTION, BY, CHECKED BY, DATE) and a title block containing project name, date, and sheet number (C001).

Vertical text on the left margin: G:\Jobs\16\13024-400\Production\Civil\Drawings\13024-00-GENERAL.dwg, 10/15/2023 5:38:14 PM, brandom.a. luskie THESE DRAWINGS AND THE DESIGN THEREON ARE THE PROPERTY OF DAVIS & FLOYD, INC. AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF THE ENGINEER, ARCHITECT AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.

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| 3 | C002 | SHEET LIST |
| 4 | C010 | EXISTING CONDITIONS |
| 5 | C020 | OVERALL TREE PLAN |
| 6 | C021 | TREE PLAN - GRID 1 |
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| 8 | C100 | OVERALL DEMOLITION PLAN |
| 9 | C101 | DEMOLITION PLAN - GRID 1 |
| 10 | C200 | OVERALL SITE PLAN |
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| 44 | L-200 | LAYOUT PLAN |
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| 55 | IR100 | IRRIGATION PLAN |
| 56 | IR101 | IRRIGATION PLAN |
| 57 | IR102 | IRRIGATION PLAN |
| 58 | IR103 | IRRIGATION PLAN |
| 59 | IR104 | IRRIGATION PLAN |
| 60 | IR105 | IRRIGATION PLAN |
| 61 | IR105 | IRRIGATION DETAILS |

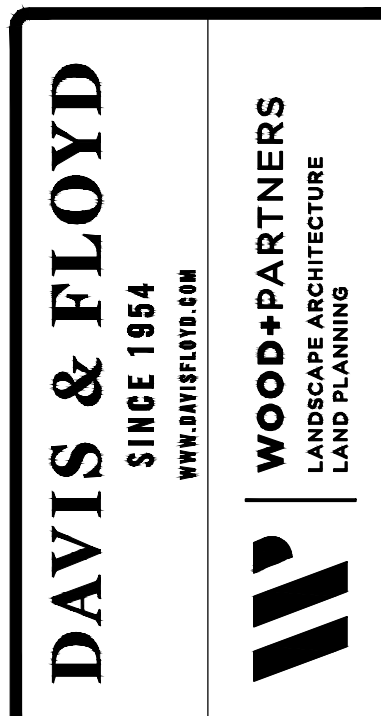
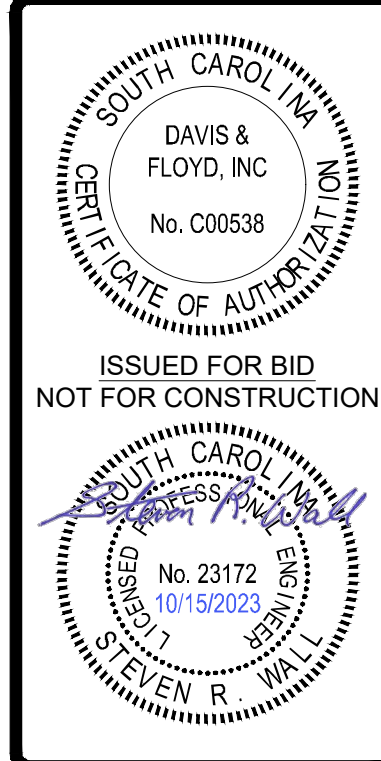
| ARCHITECTURAL SHEET LIST TABLE | | |
|--------------------------------|---------|--|
| PAGE # | SHEET # | SHEET TITLE |
| 62 | A-0 | CODE PLAN |
| 63 | A-1 | FLOOR PLANS |
| 64 | A-2 | ELEVATIONS |
| 65 | A-3 | BLOWUP BATHROOM PLANS & BUILDING SECTION |
| 66 | A-4 | WALL SECTIONS |
| 67 | A-5 | WALL SECTIONS |

| STRUCTURAL SHEET LIST TABLE | | |
|-----------------------------|---------|-------------------------------------|
| PAGE # | SHEET # | SHEET TITLE |
| 68 | S100 | STRUCTURAL NOTES |
| 69 | S200 | FOUNDATION AND CEILING FRAMING PLAN |
| 70 | S201 | ROOF FRAMING PLANS |
| 71 | S300 | STRUCTURAL DETAILS |
| 72 | S400 | STRUCTURAL DETAILS |
| 73 | S401 | STRUCTURAL DETAILS |

| MECHANICAL SHEET LIST TABLE | | |
|-----------------------------|---------|---------------------------|
| PAGE # | SHEET # | SHEET TITLE |
| 74 | M0.1 | NOTES, LEGENDS, & SYMBOLS |
| 75 | M1 | HVAC FLOOR PLAN |
| 76 | M2 | DETAILS |

| ELECTRICAL SHEET LIST TABLE | | |
|-----------------------------|---------|-----------------------------------|
| PAGE # | SHEET # | SHEET TITLE |
| 77 | E0.1 | LEGEND & GENERAL NOTES |
| 78 | E0.2 | NOTES, SCHEDULES, & ABBREVIATIONS |
| 79 | E1 | ELECTRICAL PAVILION PLAN |

| PLUMBING SHEET LIST TABLE | | |
|---------------------------|---------|---------------------------|
| PAGE # | SHEET # | SHEET TITLE |
| 80 | P0.1 | NOTES, LEGENDS, & SYMBOLS |
| 81 | P1.1 | S, W & V FLOOR PLAN |
| 82 | P1.2 | WATER FLOOR PLAN |
| 83 | P2 | DETAILS |
| 84 | P3 | RISER DIAGRAMS |



| | |
|--|--|
| OWNER CITY OF BEAUFORT BEAUFORT, SC 29902 | PROJECT TITLE SOUTHSIDE PARK - PHASE I PLAYGROUND AREA IMPROVEMENTS |
|--|--|

| |
|--------------|
| SHEET LIST |
| C002 |
| PAGE 3 OF 33 |

| NO. | DESCRIPTION | DATE |
|-----|-------------------------|------------|
| 1 | ISSUED FOR BIDDING | 09/19/2023 |
| 2 | ISSUED FOR CONSTRUCTION | 10/15/2023 |

I HEREBY STATE THAT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF, THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARDS OF PRACTICE MANUAL FOR SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS "A" SURVEY AS SPECIFIED THEREIN.

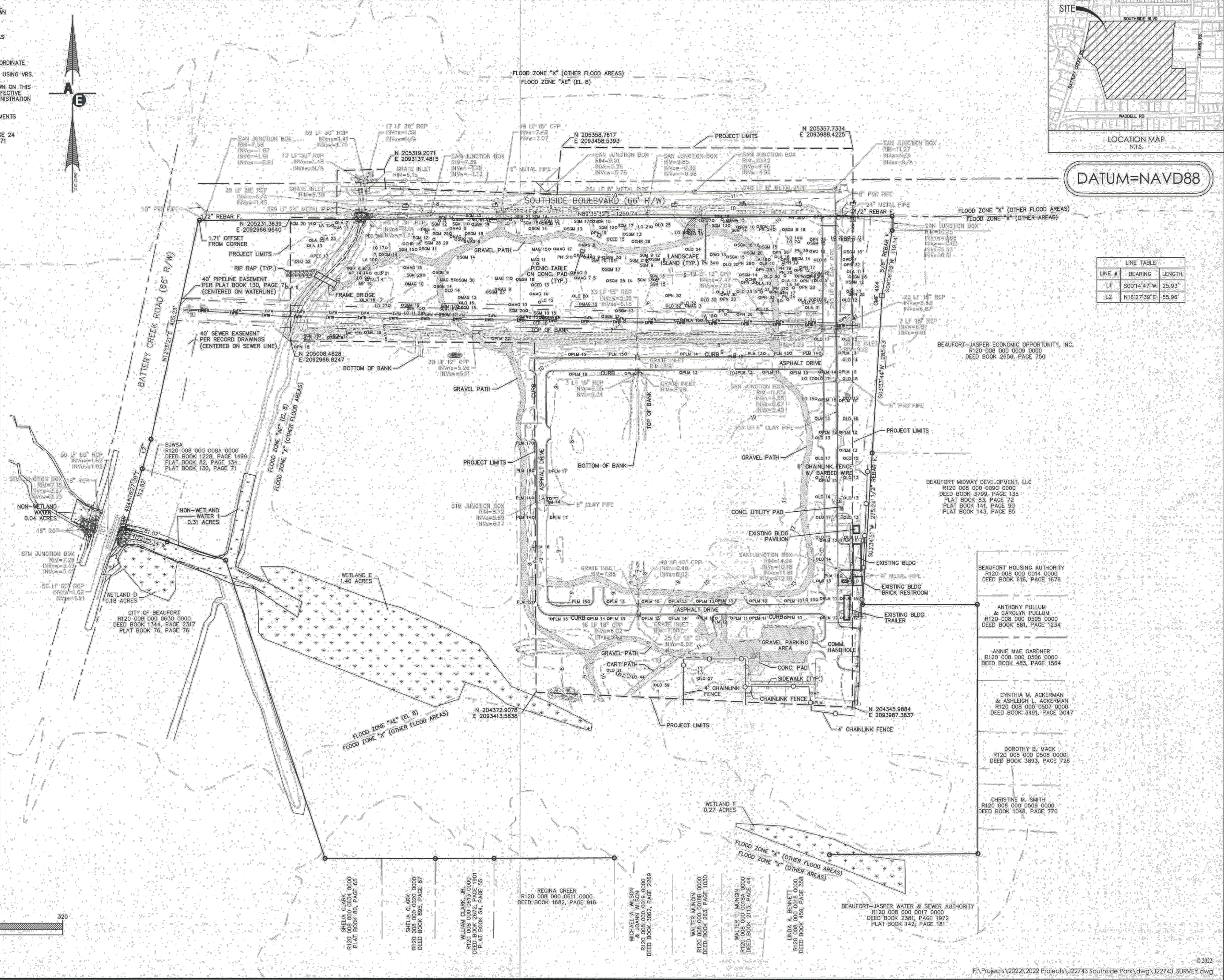
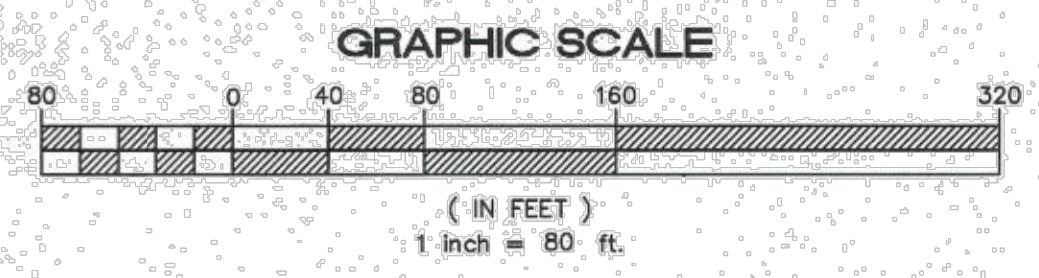
- NOTES:
1. BEARINGS ARE BASED ON THE SC STATE PLANE COORDINATE SYSTEM NAD 83.
 2. VERTICAL DATUM IS NAVD88 AND WAS ESTABLISHED USING VRS.
 3. FIELD WORK COMPLETED: 11/17/2022
 4. THIS PARCEL IS LOCATED IN FLOOD ZONES AS SHOWN ON THIS MAP AND DEPICTED ON PANEL NO. 4501300164G EFFECTIVE DATE MARCH 23, 2021 - FEDERAL INSURANCE ADMINISTRATION FLOOD INSURANCE RATE MAPS.
 5. OWNER OF RECORD: CITY OF BEAUFORT
 6. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS AND/OR RIGHT OF WAYS OF RECORD.
 7. REFERENCES: DEED BOOK 3455, PAGE 2704; PLAT BOOK 19, PAGE 24; PLAT BOOK 82, PAGE 134; PLAT BOOK 130, PAGE 71; PLAT BOOK 142, PAGE 181

TREE LEGEND

| | |
|-----|-------------------|
| CED | EASTERN RED CEDAR |
| CHR | CHERRY |
| LAO | LAUREL OAK |
| LQ | LIVE OAK |
| MAG | SOUTHERN MAGNOLIA |
| MP | ASHLEAF MAPLE |
| MY | MYRTLE |
| PEC | PECAN |
| PLM | PALM |
| PN | PINE |
| SOM | SWEETGUM |
| TAL | TALLOW |
| TRE | UNKNOWN SPECIES |
| WO | WATER OAK |

LEGEND:

| | |
|----------|-----------------------------|
| [Symbol] | AIR CONDITIONER |
| [Symbol] | BENCH MARK |
| [Symbol] | BOTTOM OF BANK |
| [Symbol] | COMMUNICATIONS HANDHOLE |
| [Symbol] | CONCRETE MONUMENT FOUND |
| [Symbol] | CABLE TELEVISION BOX |
| [Symbol] | CENTERLINE OF DITCH |
| [Symbol] | CONTROL PANEL |
| [Symbol] | ELECTRIC BOX |
| [Symbol] | ELECTRIC LINE (UNDERGROUND) |
| [Symbol] | ELECTRIC METER |
| [Symbol] | CHAIN FENCE |
| [Symbol] | WOOD FENCE |
| [Symbol] | FIRE DEPARTMENT CONNECTION |
| [Symbol] | FIRE HYDRANT |
| [Symbol] | FLAG POLE |
| [Symbol] | GRATE INLET |
| [Symbol] | GROUND LIGHT |
| [Symbol] | EGAS |
| [Symbol] | GAS LINE |
| [Symbol] | GAS LINE MARKER |
| [Symbol] | GAS TANK |
| [Symbol] | GAS VALVE |
| [Symbol] | GAS VALVE MARKER |
| [Symbol] | GUY WIRE |
| [Symbol] | HOSE BIB |
| [Symbol] | IRON PIN FOUND |
| [Symbol] | IRON PIN SET |
| [Symbol] | IRRIGATION VALVE |
| [Symbol] | LIGHT POLE / LAMP POST |
| [Symbol] | MAILBOX |
| [Symbol] | MONITORING WELL |
| [Symbol] | OVERHEAD POWER LINE |
| [Symbol] | POST |
| [Symbol] | POST INDICATOR VALVE |
| [Symbol] | POWER POLE |
| [Symbol] | RIGHT-OF-WAY |
| [Symbol] | SANITARY SEWER CLEANOUT |
| [Symbol] | SANITARY SEWER FORCEMAIN |
| [Symbol] | SANITARY SEWER LINE |
| [Symbol] | SANITARY SEWER MANHOLE |
| [Symbol] | SEWER LINE MARKER |
| [Symbol] | SEWER VALVE |
| [Symbol] | SEWER VALVE MARKER |
| [Symbol] | SIGN |
| [Symbol] | SPRINKLER HEAD |
| [Symbol] | STORM DRAIN MANHOLE |
| [Symbol] | STORM DRAIN PIPE |
| [Symbol] | TELEPHONE LINE |
| [Symbol] | TELEPHONE MANHOLE |
| [Symbol] | TELEPHONE PEDESTAL |
| [Symbol] | TOP OF BANK |
| [Symbol] | TRANSFORMER |
| [Symbol] | WELL |
| [Symbol] | WATER FOUNTAIN |
| [Symbol] | WATER LINE |
| [Symbol] | WATER LINE MARKER |
| [Symbol] | WATER METER |
| [Symbol] | WATER TANK |
| [Symbol] | WATER VALVE |
| [Symbol] | WATER VALVE MARKER |



DATUM=NAVD88

LINE TABLE

| LINE # | BEARING | LENGTH |
|--------|-------------|--------|
| L1 | S00°14'47"W | 25.93' |
| L2 | N16°27'39"E | 55.96' |

PLAN REVISIONS

| NO. | DESCRIPTION | DATE | BY |
|-----|-------------|------|----|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |

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Beaufort, SC 29902
843.379.2222
843.379.2223
Fax: 843.379.2223

Andrews Engineering & Surveying

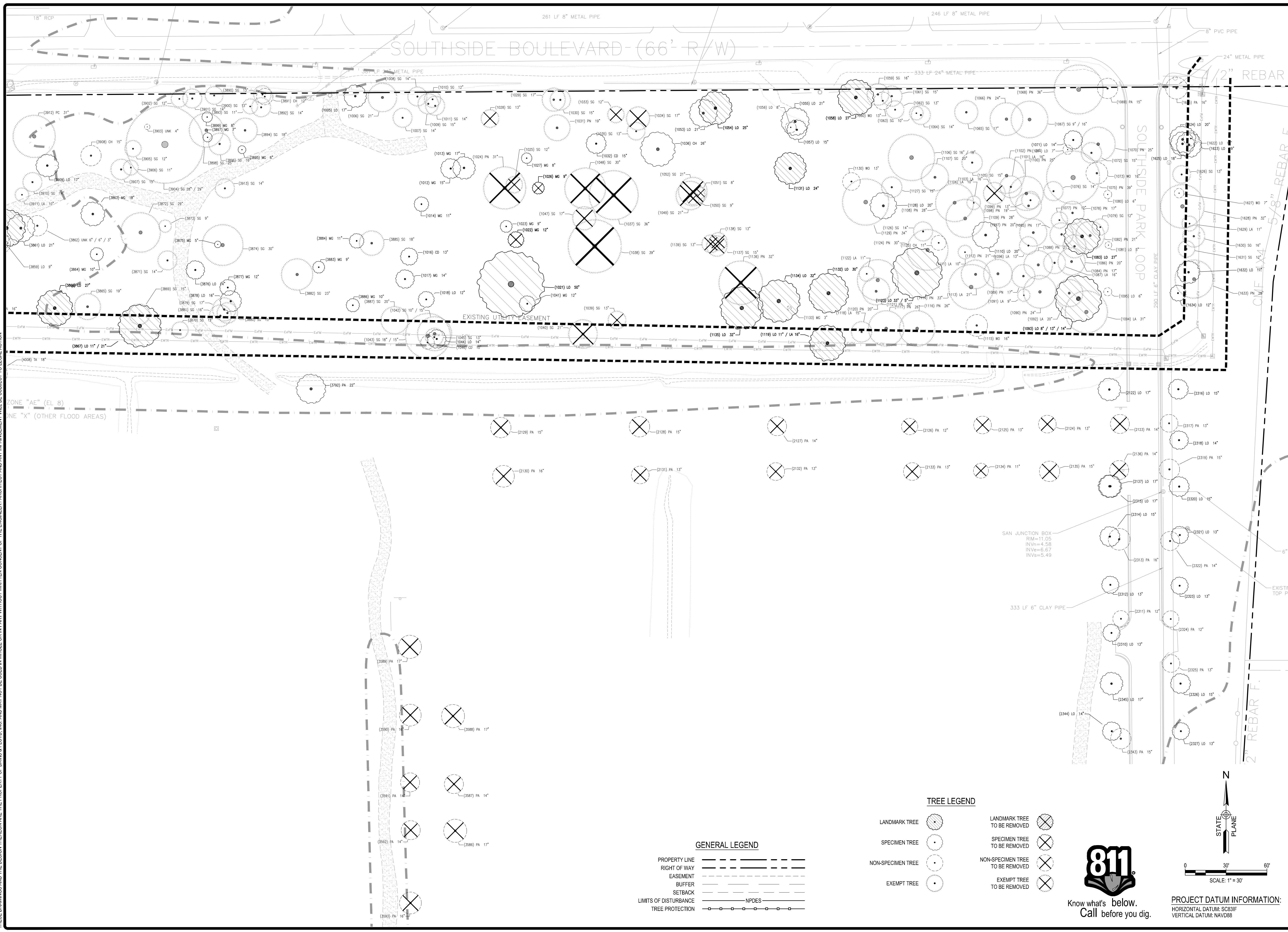
R120 008 000 0015 0000
SOUTHSIDE PARK
CITY OF BEAUFORT
BEAUFORT COUNTY
SOUTH CAROLINA

AS-BUILT & TOPOGRAPHIC
SURVEY
PREPARED FOR
DAVIS & FLOYD

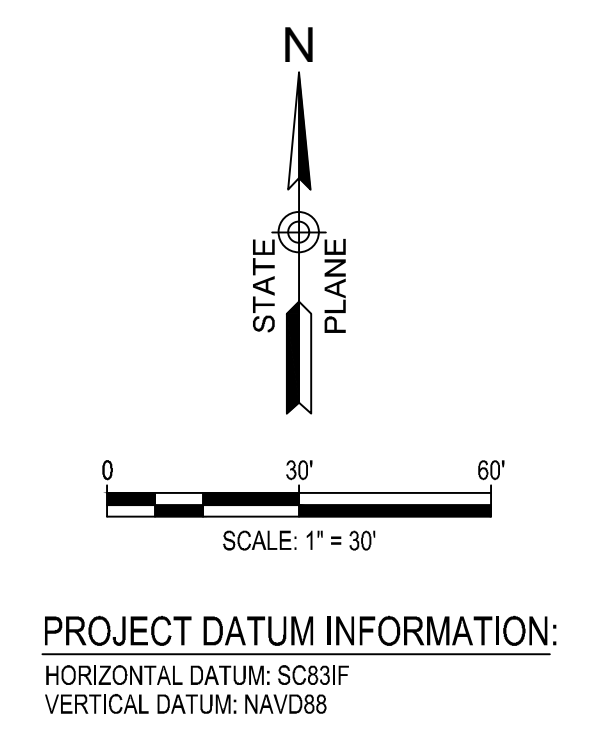
Date Drawn: 11/18/2022
Last Revised: 01/12/2023
Drawn By: J. Toller
Surveyor: J. Gray

SHEET #:
1
JOB: J22743

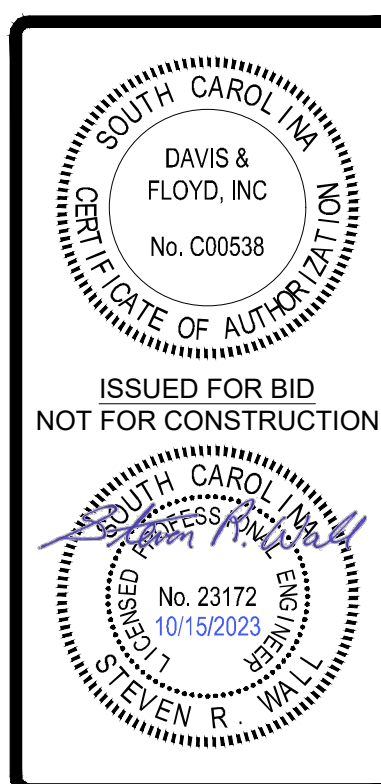
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- GENERAL LEGEND**
- PROPERTY LINE
 - RIGHT OF WAY
 - EASEMENT
 - BUFFER
 - SETBACK
 - LIMITS OF DISTURBANCE
 - TREE PROTECTION
- TREE LEGEND**
- LANDMARK TREE
 - SPECIMEN TREE
 - NON-SPECIMEN TREE
 - EXEMPT TREE
 - LANDMARK TREE TO BE REMOVED
 - SPECIMEN TREE TO BE REMOVED
 - NON-SPECIMEN TREE TO BE REMOVED
 - EXEMPT TREE TO BE REMOVED



PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD88



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WOOD+PARTNERS
 LANDSCAPE ARCHITECTURE
 LAND PLANNING

CITY OF BEAUFORT
 BEAUFORT, SC 29902

SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

TREE PLAN - GRID 1

| NO. | DATE | DESCRIPTION | BY | CHKD | APP'D |
|-----|------------|---------------|----|------|-------|
| 1 | 03/20/24 | ISSUE FOR BID | BA | BA | BA |
| 2 | 10/15/2023 | ISSUE FOR BID | BA | BA | BA |

PAGE 6 OF 33

G:\Jobs\Even\32024-00\Production\Civil\Drawings\032024-00-TREE.dwg, 10/15/2023 5:37:10 PM, brannon a. lunske
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EXEMPT TREES TO BE REMOVED
TREES: 24
DBH: 438

| POINT # | DESCRIPTION |
|---------|-------------|
| 1006 | T-SG 21 |
| 1007 | T-SG 14 |
| 1008 | T-SG 14 |
| 1009 | T-SG 15 |
| 1010 | T-SG 12 |
| 1011 | T-SG 14 |
| 1029 | T-SG 17 |
| 1030 | T-SG 15 |
| 1031 | T-PN 19 |
| 1035 | T-SG 13 |
| 1042 | T-SG 25 |
| 1043 | T-SG 33 |
| 1045 | T-SG 13 |
| 1059 | T-SG 16 |
| 1081 | T-SG 15 |
| 1062 | T-SG 13 |
| 1063 | T-SG 10 |
| 1064 | T-SG 14 |
| 1065 | T-SG 17 |
| 1068 | T-PN 24 |
| 1067 | T-SG 27 |
| 1088 | T-PN 36 |
| 1070 | T-PN 25 |
| 1072 | T-SG 15 |
| 1075 | T-PN 39 |
| 1076 | T-SG 14 |
| 1077 | T-PN 12 |
| 1078 | T-PN 17 |
| 1079 | T-SG 12 |
| 1082 | T-PN 21 |
| 1084 | T-A 13 |
| 1085 | T-PN 17 |
| 1086 | T-PN 20 |
| 1087 | T-LA 16 |
| 1088 | T-PN 21 |
| 1089 | T-PN 17 |
| 1090 | T-PN 24 |
| 1091 | T-LA 9 |
| 1092 | T-LA 20 |
| 1094 | T-LA 31 |
| 1096 | T-LA 13 |
| 1097 | T-PN 20 |
| 1098 | T-PN 19 |
| 1099 | T-PN 13 |
| 1100 | T-PN 25 |
| 1101 | T-LA 16 |
| 1102 | T-PN 26 |
| 1104 | T-LA 10 |
| 1105 | T-SG 15 |
| 1106 | T-SG 34 |
| 1107 | T-SG 20 |
| 1108 | T-PN 28 |
| 1109 | T-PN 28 |
| 1111 | T-LA 10 |
| 1112 | T-PN 21 |
| 1113 | T-LA 21 |
| 1114 | T-PN 33 |
| 1116 | T-PN 26 |
| 1117 | T-PN 26 |
| 1118 | T-LA 15 |
| 1120 | T-PN 20 |
| 1121 | T-PN 30 |
| 1122 | T-LA 11 |
| 1124 | T-PN 30 |
| 1126 | T-SG 14 |
| 1127 | T-SG 15 |
| 1129 | T-PN 34 |
| 1626 | T-SG 13 |
| 1628 | T-PN 32 |
| 1629 | T-LA 11 |
| 1630 | T-SG 16 |
| 1631 | T-SG 12 |
| 1633 | T-PN 28 |
| 3856 | T-LA 16 |
| 3865 | T-SG 19 |
| 3869 | T-SG 15 |
| 3870 | T-SG 12 |
| 3871 | T-SG 14 |
| 3872 | T-SG 29 |
| 3873 | T-SG 9 |

NON-SPECIMEN TREES TO BE REMOVED
TREES: 23
DBH: 330

| POINT # | DESCRIPTION |
|---------|-------------|
| 2123 | T-PA 14 |
| 2124 | T-PA 13 |
| 2125 | T-PA 13 |
| 2126 | T-PA 12 |
| 2127 | T-PA 14 |
| 2128 | T-PA 15 |
| 2129 | T-PA 15 |
| 2130 | T-PA 16 |
| 2131 | T-PA 13 |
| 2132 | T-PA 13 |
| 2133 | T-PA 13 |
| 2134 | T-PA 11 |
| 2135 | T-PA 15 |
| 2136 | T-PA 14 |
| 3586 | T-PA 17 |
| 3587 | T-PA 14 |
| 3588 | T-PA 17 |
| 3589 | T-PA 17 |
| 3590 | T-PA 16 |
| 3591 | T-PA 14 |
| 3592 | T-PA 14 |
| 3593 | T-PA 16 |
| 4008 | T-TA 18 |
| 4009 | T-TA 11 |

SPECIMEN TREES TO BE REMOVED
TREES: 2
DBH: 21

| POINT # | DESCRIPTION |
|---------|-------------|
| 1022 | T-MG 12 |
| 1026 | T-MG 9 |

EXEMPT TREES TO REMAIN
TREES: 113
DBH: 2154

| POINT # | DESCRIPTION |
|---------|-------------|
| 1006 | T-SG 21 |
| 1007 | T-SG 14 |
| 1008 | T-SG 14 |
| 1009 | T-SG 15 |
| 1010 | T-SG 12 |
| 1011 | T-SG 14 |
| 1029 | T-SG 17 |
| 1030 | T-PN 15 |
| 1031 | T-PN 19 |
| 1035 | T-SG 13 |
| 1042 | T-SG 25 |
| 1043 | T-SG 33 |
| 1045 | T-SG 13 |
| 1059 | T-SG 16 |
| 1061 | T-SG 15 |
| 1062 | T-SG 13 |
| 1063 | T-SG 10 |
| 1064 | T-SG 14 |
| 1065 | T-SG 17 |
| 1066 | T-PN 24 |
| 1067 | T-SG 27 |
| 1068 | T-PN 36 |
| 1070 | T-PN 25 |
| 1072 | T-SG 15 |
| 1075 | T-PN 39 |
| 1076 | T-SG 14 |
| 1077 | T-PN 12 |
| 1078 | T-PN 17 |
| 1079 | T-SG 12 |
| 1082 | T-PN 21 |
| 1084 | T-PN 17 |
| 1085 | T-PN 17 |
| 1086 | T-PN 20 |
| 1087 | T-LA 16 |
| 1088 | T-PN 21 |
| 1089 | T-PN 17 |
| 1090 | T-PN 24 |
| 1091 | T-LA 9 |
| 1092 | T-LA 20 |
| 1094 | T-LA 31 |
| 1096 | T-LA 13 |
| 1097 | T-PN 20 |
| 1098 | T-PN 19 |
| 1099 | T-PN 13 |
| 1100 | T-PN 25 |
| 1101 | T-LA 16 |
| 1102 | T-PN 26 |
| 1104 | T-LA 10 |
| 1105 | T-SG 15 |
| 1106 | T-SG 34 |
| 1107 | T-SG 20 |
| 1108 | T-PN 28 |
| 1109 | T-PN 28 |
| 1111 | T-LA 10 |
| 1112 | T-PN 21 |
| 1113 | T-LA 21 |
| 1114 | T-PN 33 |
| 1116 | T-PN 26 |
| 1117 | T-PN 26 |
| 1118 | T-LA 15 |
| 1120 | T-PN 20 |
| 1121 | T-PN 30 |
| 1122 | T-LA 11 |
| 1124 | T-PN 30 |
| 1126 | T-SG 14 |
| 1127 | T-SG 15 |
| 1129 | T-PN 34 |
| 1626 | T-SG 13 |
| 1628 | T-PN 32 |
| 1629 | T-LA 11 |
| 1630 | T-SG 16 |
| 1631 | T-SG 12 |
| 1633 | T-PN 28 |
| 3856 | T-LA 16 |
| 3865 | T-SG 19 |
| 3869 | T-SG 15 |
| 3870 | T-SG 12 |
| 3871 | T-SG 14 |
| 3872 | T-SG 29 |
| 3873 | T-SG 9 |

| POINT # | DESCRIPTION |
|---------|-------------|
| 3874 | T-SG 30 |
| 3879 | T-SG 17 |
| 3880 | T-SG 15 |
| 3881 | T-SG 16 |
| 3882 | T-SG 23 |
| 3885 | T-SG 18 |
| 3887 | T-SG 20 |
| 3890 | T-SG 13 |
| 3892 | T-SG 14 |
| 3893 | T-SG 11 |
| 3894 | T-SG 18 |
| 3896 | T-SG 16 |
| 3898 | T-SG 25 |
| 3900 | T-SG 13 |
| 3901 | T-SG 14 |
| 3902 | T-SG 12 |
| 3904 | T-SG 57 |
| 3905 | T-SG 12 |
| 3906 | T-SG 11 |
| 3907 | T-SG 15 |
| 3910 | T-SG 14 |
| 3911 | T-LA 10 |
| 3912 | T-PC 31 |
| 3913 | T-SG 14 |
| 3914 | T-SG 34 |
| 3915 | T-LA 21 |
| 3916 | T-LA 17 |
| 3917 | T-LA 15 |
| 3918 | T-LA 25 |
| 3919 | T-LA 22 |
| 3920 | T-LA 13 |
| 3921 | T-PC 17 |
| 3923 | T-LA 8 |

NON-SPECIMEN TREES TO REMAIN
TREES: 61
DBH (IN.): 737

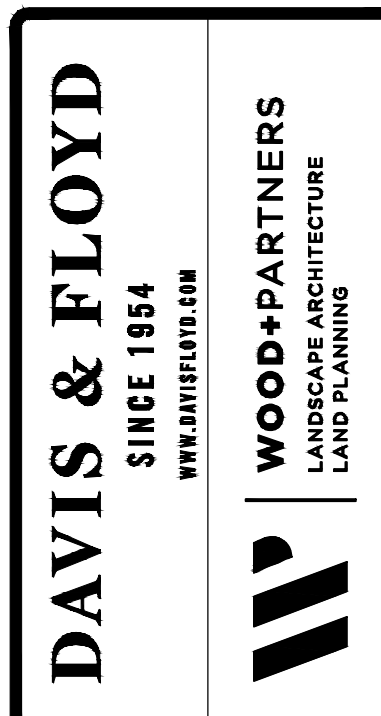
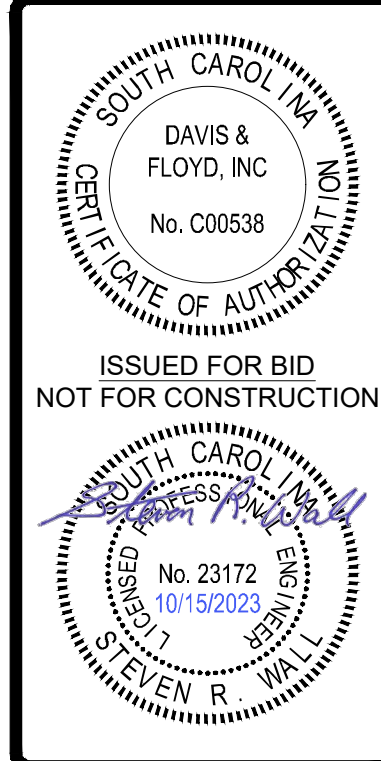
| POINT # | DESCRIPTION |
|---------|-------------|
| 1046 | T-CD 10 |
| 1056 | T-L0 8 |
| 1060 | T-MG 13 |
| 1089 | T-PA 15 |
| 1073 | T-WO 16 |
| 1074 | T-L0 7 |
| 1080 | T-L0 6 |
| 1081 | T-L0 5 |
| 1095 | T-L0 6 |
| 1115 | T-WO 16 |
| 1125 | T-CH 11 |
| 1130 | T-MG 13 |
| 1133 | T-MG 3 |
| 1622 | T-L0 11 |
| 1627 | T-WO 7 |
| 1635 | T-PA 16 |
| 2311 | T-L0 12 |
| 2313 | T-PA 16 |
| 2317 | T-PA 13 |
| 2319 | T-SG 15 |
| 2322 | T-PA 14 |
| 2324 | T-PA 12 |
| 2325 | T-PA 13 |
| 2330 | T-L0 11 |
| 2331 | T-PA 16 |
| 2332 | T-LA 16 |
| 2333 | T-PA 15 |
| 2334 | T-PA 12 |
| 2335 | T-L0 10 |
| 2336 | T-PA 11 |
| 2339 | T-PA 12 |
| 2343 | T-PA 15 |
| 2755 | T-PA 12 |
| 2756 | T-CH 12 |
| 3213 | T-PA 12 |
| 3584 | T-PA 12 |
| 3614 | T-PA 10 |
| 3615 | T-PA 10 |
| 3616 | T-PA 10 |
| 3617 | T-PA 11 |
| 3618 | T-PA 11 |
| 3619 | T-PA 12 |
| 3620 | T-PA 12 |
| 3621 | T-PA 14 |
| 3622 | T-PA 15 |
| 3623 | T-PA 13 |
| 3624 | T-PA 14 |
| 3625 | T-PA 15 |
| 3626 | T-PA 15 |
| 3627 | T-PA 13 |
| 3628 | T-PA 15 |
| 3629 | T-PA 13 |
| 3631 | T-PA 13 |
| 3632 | T-PA 13 |
| 3658 | T-TA 4 |
| 3859 | T-L0 9 |
| 3862 | T-UK 15 |
| 3881 | T-CH 12 |
| 3903 | T-UK 4 |
| 3906 | T-CH 15 |

SPECIMEN TREES TO REMAIN
TREES: 63
DBH (IN.): 915

| POINT # | DESCRIPTION |
|---------|-------------|
| 1005 | T-L0 17 |
| 1012 | T-MG 15 |
| 1013 | T-MG 17 |
| 1014 | T-MG 11 |
| 1016 | T-CD 13 |
| 1017 | T-MG 14 |
| 1018 | T-L0 12 |
| 1023 | T-MG 9 |
| 1027 | T-MG 8 |
| 1032 | T-CD 15 |
| 1036 | T-CH 26 |
| 1041 | T-MG 12 |
| 1044 | T-L0 14 |
| 1053 | T-L0 21 |
| 1055 | T-L0 21 |
| 1057 | T-L0 15 |
| 1071 | T-L0 14 |
| 1110 | T-L0 20 |
| 1128 | T-L0 20 |
| 1623 | T-L0 19 |
| 1624 | T-L0 20 |
| 1625 | T-L0 18 |
| 1632 | T-L0 17 |
| 1634 | T-L0 12 |
| 2122 | T-L0 17 |
| 2137 | T-L0 17 |
| 2310 | T-L0 13 |
| 2312 | T-L0 13 |
| 2314 | T-L0 15 |
| 2315 | T-L0 17 |
| 2316 | T-L0 15 |
| 2318 | T-L0 14 |
| 2320 | T-L0 15 |
| 2321 | T-L0 13 |
| 2323 | T-L0 13 |
| 2326 | T-L0 15 |
| 2327 | T-L0 13 |
| 2328 | T-L0 13 |
| 2329 | T-L0 13 |
| 2337 | T-L0 13 |
| 2338 | T-L0 14 |
| 2340 | T-L0 15 |
| 2341 | T-L0 17 |
| 2342 | T-L0 14 |
| 2344 | T-L0 14 |
| 2345 | T-L0 17 |
| 3792 | T-PA 22 |
| 3857 | T-MP 16 |
| 3861 | T-L0 21 |
| 3863 | T-MG 18 |
| 3864 | T-MG 10 |
| 3875 | T-MG 5 |
| 3876 | T-L0 14 |
| 3877 | T-MG 12 |
| 3878 | T-L0 16 |
| 3883 | T-MG 9 |
| 3884 | T-MG 11 |
| 3886 | T-MG 10 |
| 3895 | T-MG 6 |
| 3897 | T-MG 7 |
| 3899 | T-MG 8 |
| 3909 | T-L0 17 |
| 4013 | T-L0 13 |

LANDMARK TREES TO REMAIN
TREES: 19
DBH (IN.): 717

| POINT # | DESCRIPTION |
|---------|-------------|
| 1021 | T-L0 50 |
| 1054 | T-L0 25 |
| 1058 | T-L0 27 |
| 1083 | T-L0 27 |
| 1093 | T-L0 35 |
| 1119 | T-L0 27 |
| 1123 | T-L0 36 |
| 1131 | T-L0 24 |
| 1132 | T-L0 30 |
| 1134 | T-L0 32 |
| 1135 | T-L0 32 |
| 3059 | T-L0 57 |
| 3072 | T-L0 59 |
| 3374 | T-L0 71 |
| 3633 | T-L0 44 |
| 3860 | T-MP 28 |
| 3866 | T-L0 27 |
| 3867 | T-L0 32 |
| 3922 | T-L0 52 |



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LAND PLANNING

OWNER: CITY OF BEAUFORT
PROJECT TITLE: BEAUFORT, SC 29902
SOUTHSHORE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

DATE: 03/20/24 00
DATE: 10/15/2023
DATE: 10/15/2023

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DATE: 10/15/2023
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NO. 21
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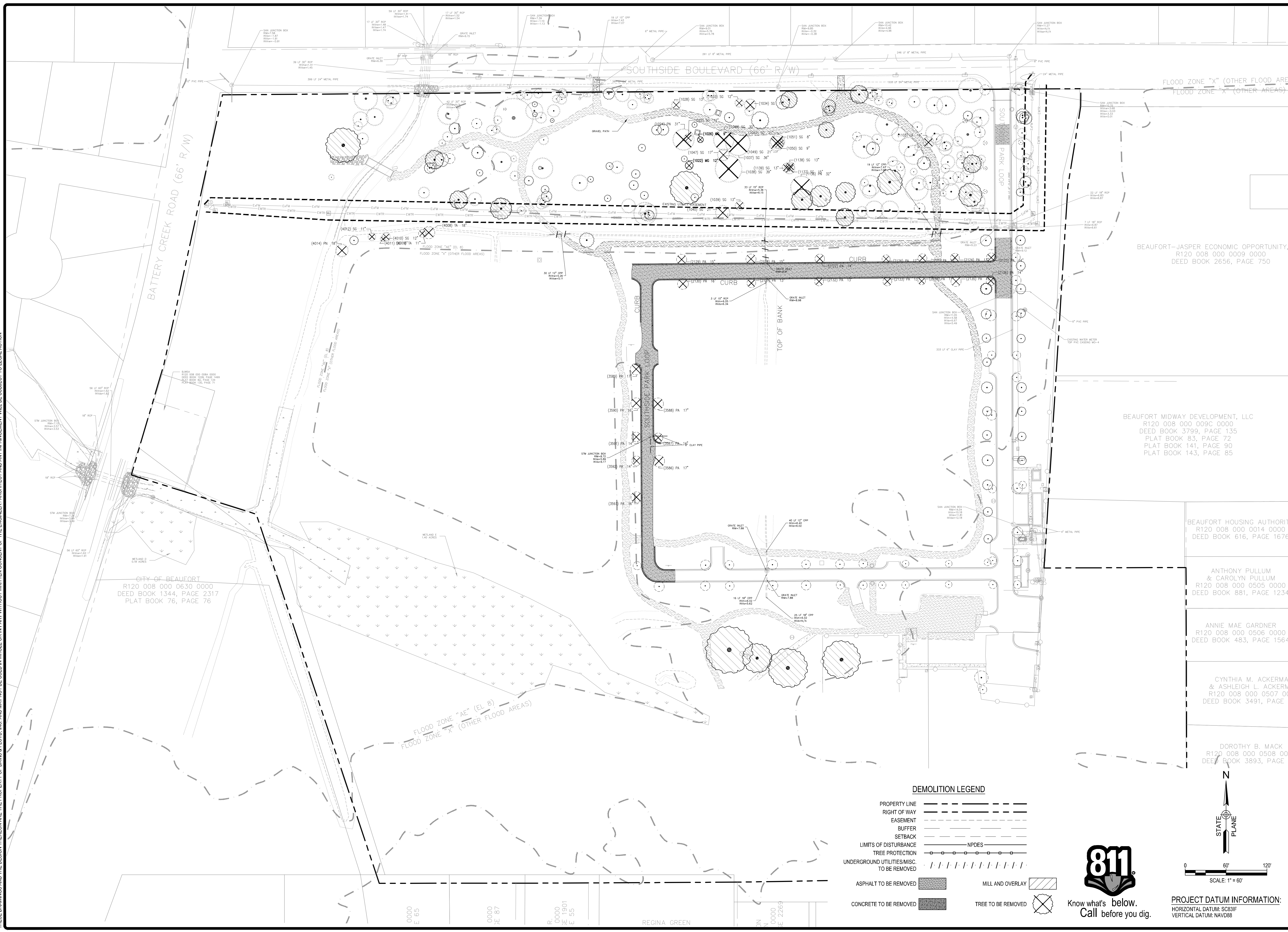
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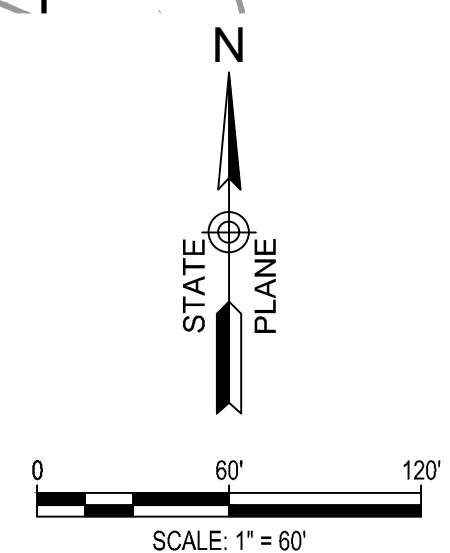
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DEMOLITION LEGEND

- PROPERTY LINE
- RIGHT OF WAY
- EASEMENT
- BUFFER
- SETBACK
- LIMITS OF DISTURBANCE
- TREE PROTECTION
- UNDERGROUND UTILITIES/MISC. TO BE REMOVED
- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED
- MILL AND OVERLAY
- TREE TO BE REMOVED



PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD88

CITY OF BEAUFORT
 R120 008 000 0630 0000
 DEED BOOK 1344, PAGE 2317
 PLAT BOOK 76, PAGE 76

BEAUFORT MIDWAY DEVELOPMENT, LLC
 R120 008 000 009C 0000
 DEED BOOK 3799, PAGE 135
 PLAT BOOK 83, PAGE 72
 PLAT BOOK 141, PAGE 90
 PLAT BOOK 143, PAGE 85

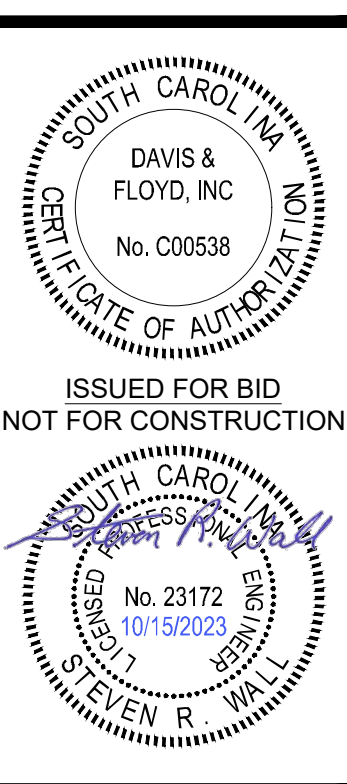
BEAUFORT HOUSING AUTHORITY
 R120 008 000 0014 0000
 DEED BOOK 616, PAGE 1676

ANTHONY PULLUM
 & CAROLYN PULLUM
 R120 008 000 0505 0000
 DEED BOOK 881, PAGE 1234

ANNIE MAE GARDNER
 R120 008 000 0506 0000
 DEED BOOK 483, PAGE 1564

CYNTHIA M. ACKERMAN
 & ASHLEIGH L. ACKERMAN
 R120 008 000 0507 0000
 DEED BOOK 3491, PAGE 3

DOROTHY B. MACK
 R120 008 000 0508 0000
 DEED BOOK 3893, PAGE 1



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CITY OF BEAUFORT
 BEAUFORT, SC 29502

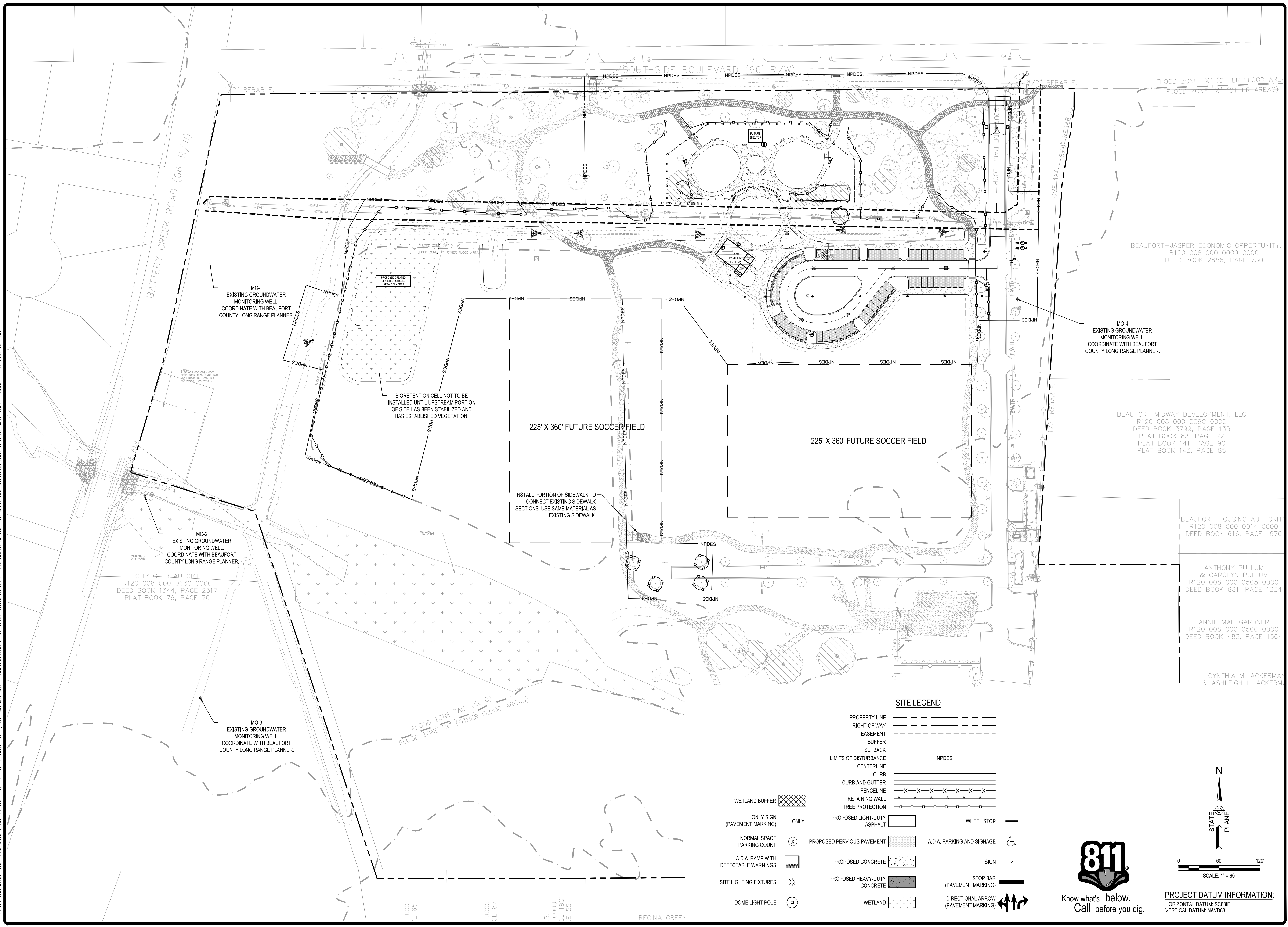
SOUTH SIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

OVERALL DEMOLITION PLAN

| NO. | DATE | DESCRIPTION | BY | CHKD | APP'D |
|-----|------------|---------------|-----|------|-------|
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| 2 | 10/15/2023 | ISSUE FOR BID | SRV | SRV | SRV |

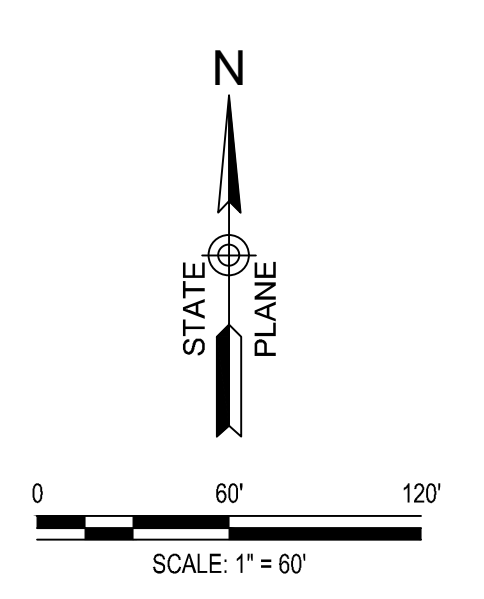
PROJECT NO. 132024-00
 SHEET NO. 8 OF 33
 PROJECT TITLE: SOUTH SIDE PARK - PHASE I PLAYGROUND AREA IMPROVEMENTS

G:\Jobs\16\16024\00\Production\Civil\Drawings\032024\00-SITE.dwg, 10/15/2023 3:37:59 PM, brndon a. turske
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SITE LEGEND

| | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---------------|------------------------------|-----------------|-----------------------------|------------------|-----------------|------|----------------------------|--------------|----------------------------|-------------------|-------------------|-----------------|-----------------|------|-----------------------------|-----------------|--------------------------------------|------|-----------------|-----------------|
| PROPERTY LINE | --- | RIGHT OF WAY | ---- | EASEMENT | ---- | SETBACK | ---- | LIMITS OF DISTURBANCE | NPDES | CENTERLINE | ---- | CURB | ==== | CURB AND GUTTER | ==== | FENCELINE | -X-X-X-X-X-X-X- | RETAINING WALL | ==== | TREE PROTECTION | ○-○-○-○-○-○-○-○ |
| WETLAND BUFFER | [Hatched Box] | ONLY SIGN (PAVEMENT MARKING) | ONLY | PROPOSED LIGHT-DUTY ASPHALT | [Light Grey Box] | WHEEL STOP | — — | PROPOSED PERVIOUS PAVEMENT | [Dotted Box] | A.D.A. PARKING AND SIGNAGE | [Wheelchair Icon] | PROPOSED CONCRETE | [Dark Grey Box] | SIGN | — — | STOP BAR (PAVEMENT MARKING) | — — | DIRECTIONAL ARROW (PAVEMENT MARKING) | ⇄ | | |
| NORMAL SPACE PARKING COUNT | (X) | PROPOSED HEAVY-DUTY CONCRETE | [Dark Grey Box] | WETLAND | [Dotted Box] | DOME LIGHT POLE | (○) | | | | | | | | | | | | | | |



PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD88

STATE OF SOUTH CAROLINA
 DAVIS & FLOYD, INC.
 No. C00538
 ISSUED FOR BID
 NOT FOR CONSTRUCTION

STATE OF SOUTH CAROLINA
 DAVIS & FLOYD, INC.
 No. 23172
 10/15/2023
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 LAND PLANNING

CITY OF BEAUFORT
 BEAUFORT, SC 29902
 PROJECT TITLE
SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

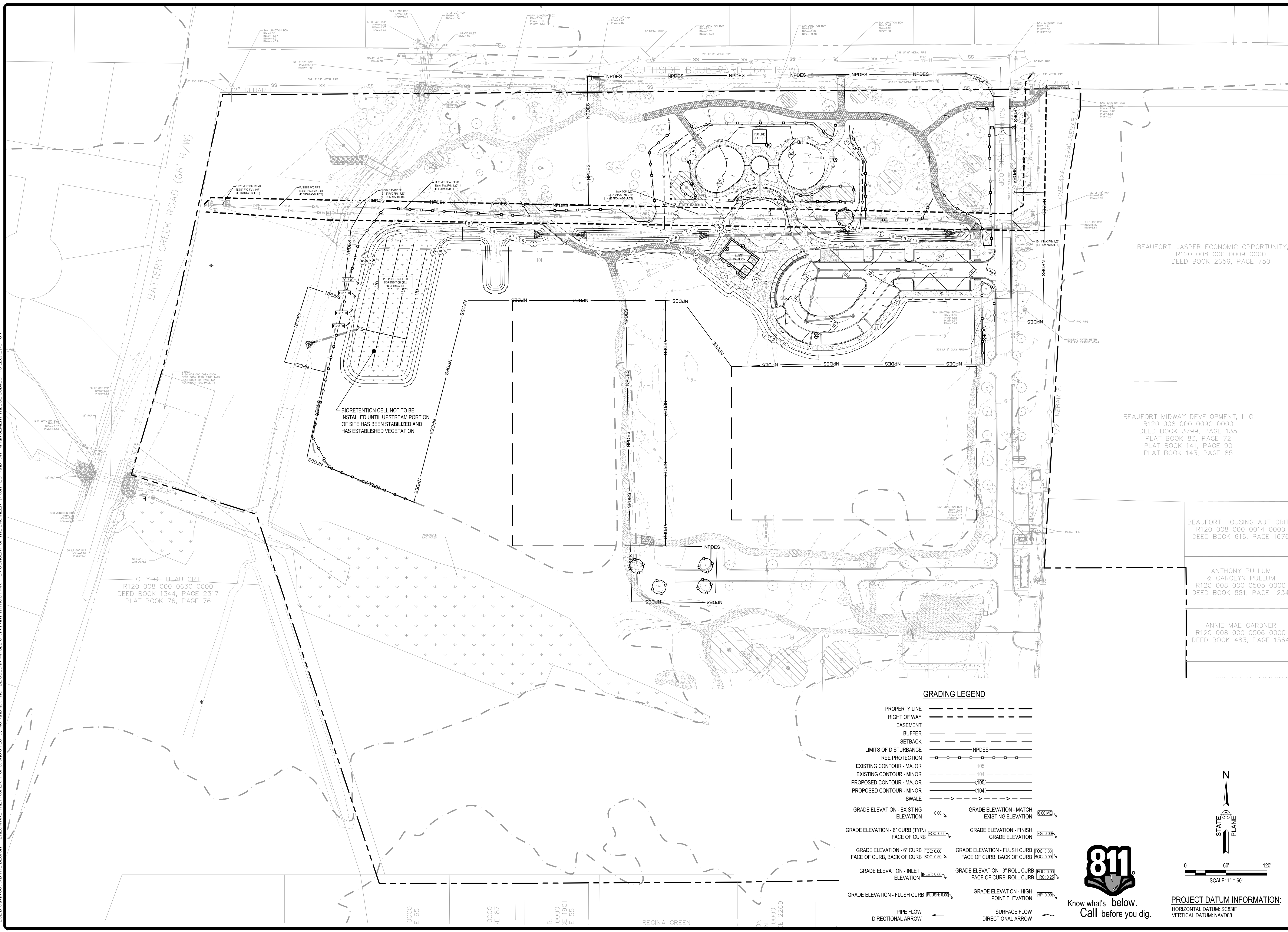
OVERALL SITE PLAN

| NO. | DATE | DESCRIPTION | BY | CHECKED | DATE |
|-----|------------|-------------|-----|---------|------------|
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| 2 | 10/15/2023 | 00 | SRV | SRV | 10/19/2023 |

DATE: 03/20/24 00
 DATE: 10/15/2023
 DRAWN BY: SRV
 CHECKED BY: SRV
 PROJECT: C200

PAGE 10 OF 33

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 R120 008 000 0630 0000
 DEED BOOK 1344, PAGE 2317
 PLAT BOOK 76, PAGE 76

BEAUFORT-JASPER ECONOMIC OPPORTUNITY,
 R120 008 000 0009 0000
 DEED BOOK 2656, PAGE 750

BEAUFORT MIDWAY DEVELOPMENT, LLC
 R120 008 000 009C 0000
 DEED BOOK 3799, PAGE 135
 PLAT BOOK 83, PAGE 72
 PLAT BOOK 141, PAGE 90
 PLAT BOOK 143, PAGE 85

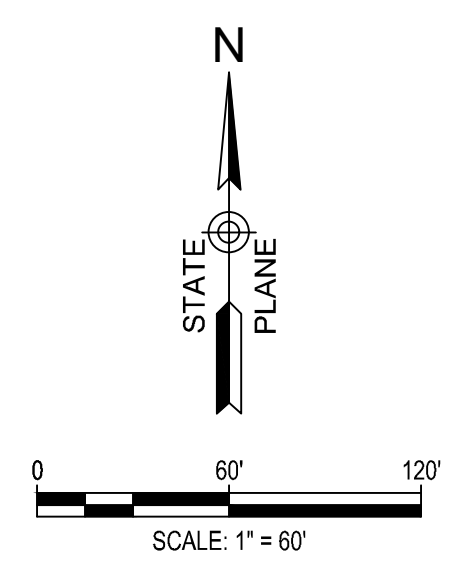
BEAUFORT HOUSING AUTHORITY
 R120 008 000 0014 0000
 DEED BOOK 616, PAGE 1676

ANTHONY PULLUM
 & CAROLYN PULLUM
 R120 008 000 0505 0000
 DEED BOOK 881, PAGE 1234

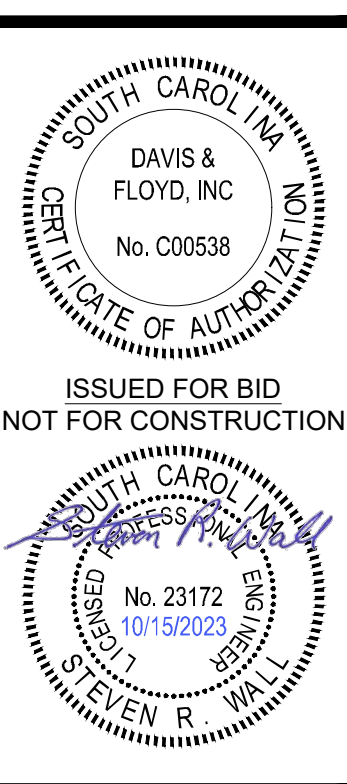
ANNIE MAE GARDNER
 R120 008 000 0506 0000
 DEED BOOK 483, PAGE 1564

GRADING LEGEND

| | | | | | |
|--------------------------|-------|--|-------------|--|----------|
| PROPERTY LINE | --- | GRADE ELEVATION - EXISTING ELEVATION | 0.00 | GRADE ELEVATION - MATCH EXISTING ELEVATION | 0.00 MB |
| RIGHT OF WAY | --- | GRADE ELEVATION - 6" CURB (TYP.) | FC: 0.00 | GRADE ELEVATION - FINISH GRADE ELEVATION | FC: 0.00 |
| EASEMENT | --- | GRADE ELEVATION - 6" CURB | FC: 0.00 | GRADE ELEVATION - FLUSH CURB | FC: 0.00 |
| BUFFER | --- | FACE OF CURB, BACK OF CURB | FC: 0.00 | FACE OF CURB, BACK OF CURB | FC: 0.00 |
| SETBACK | --- | GRADE ELEVATION - INLET ELEVATION | INLET: 0.00 | GRADE ELEVATION - 3" ROLL CURB | FC: 0.00 |
| LIMITS OF DISTURBANCE | NPDES | GRADE ELEVATION - FLUSH CURB | FLUSH: 0.00 | FACE OF CURB, ROLL CURB | FC: 0.25 |
| TREE PROTECTION | --- | GRADE ELEVATION - HIGH POINT ELEVATION | HP: 0.00 | PIPE FLOW DIRECTIONAL ARROW | ← |
| EXISTING CONTOUR - MAJOR | 105 | SURFACE FLOW DIRECTIONAL ARROW | → | | |
| EXISTING CONTOUR - MINOR | 104 | | | | |
| PROPOSED CONTOUR - MAJOR | 105 | | | | |
| PROPOSED CONTOUR - MINOR | 104 | | | | |
| SWALE | --- | | | | |



PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD88



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CITY OF BEAUFORT
 BEAUFORT, SC 29502

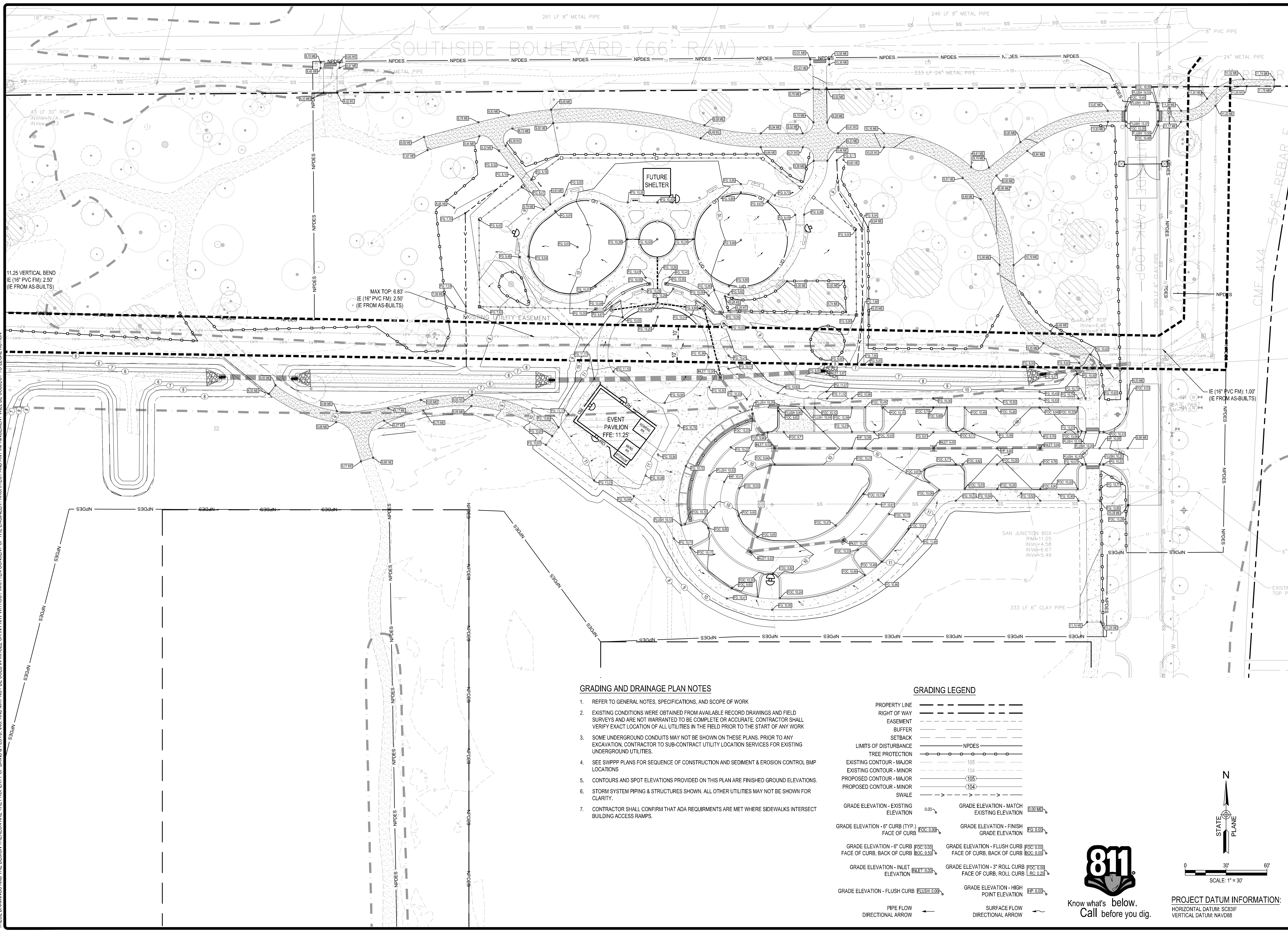
SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

OVERALL GRADING PLAN

| NO. | DATE | DESCRIPTION | BY | CHKD | APP'D |
|-----|------------|-------------|----|------|-------|
| 1 | 03/20/24 | 00 | | | |
| 2 | 10/15/2023 | 00 | | | |

PROJECT NUMBER: C300
 PAGE 12 OF 33

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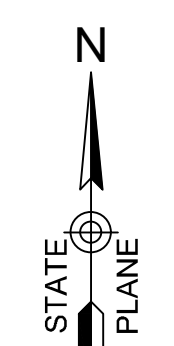


GRADING AND DRAINAGE PLAN NOTES

- REFER TO GENERAL NOTES, SPECIFICATIONS, AND SCOPE OF WORK
- EXISTING CONDITIONS WERE OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT WARRANTED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY WORK
- SOME UNDERGROUND CONDUITS MAY NOT BE SHOWN ON THESE PLANS. PRIOR TO ANY EXCAVATION, CONTRACTOR TO SUB-CONTRACT UTILITY LOCATION SERVICES FOR EXISTING UNDERGROUND UTILITIES.
- SEE SWPPP PLANS FOR SEQUENCE OF CONSTRUCTION AND SEDIMENT & EROSION CONTROL BMP LOCATIONS
- CONTOURS AND SPOT ELEVATIONS PROVIDED ON THIS PLAN ARE FINISHED GROUND ELEVATIONS.
- STORM SYSTEM PIPING & STRUCTURES SHOWN. ALL OTHER UTILITIES MAY NOT BE SHOWN FOR CLARITY.
- CONTRACTOR SHALL CONFIRM THAT ADA REQUIREMENTS ARE MET WHERE SIDEWALKS INTERSECT BUILDING ACCESS RAMPS.

GRADING LEGEND

| | | | | | |
|--------------------------|------|--|----------------------|---|----------------------|
| PROPERTY LINE | --- | GRADE ELEVATION - EXISTING ELEVATION | 0.00 | GRADE ELEVATION - MATCH EXISTING ELEVATION | 0.00 ME |
| RIGHT OF WAY | ---- | GRADE ELEVATION - 6" CURB (TYP.) FACE OF CURB | POCC 0.00 | GRADE ELEVATION - FINISH GRADE ELEVATION | POCC 0.00 |
| EASEMENT | ---- | GRADE ELEVATION - 6" CURB FACE OF CURB, BACK OF CURB | POCC 0.00 / BOC 0.50 | GRADE ELEVATION - FLUSH CURB FACE OF CURB, BACK OF CURB | POCC 0.00 / BOC 0.00 |
| BUFFER | ---- | GRADE ELEVATION - 6" CURB FACE OF CURB, BACK OF CURB | POCC 0.00 | GRADE ELEVATION - 3" ROLL CURB FACE OF CURB, ROLL CURB | POCC 0.00 |
| SETBACK | ---- | GRADE ELEVATION - INLET ELEVATION | INLET 0.00 | GRADE ELEVATION - HIGH POINT ELEVATION | HP 0.00 |
| LIMITS OF DISTURBANCE | ---- | GRADE ELEVATION - FLUSH CURB | FLUSH 0.00 | SURFACE FLOW DIRECTIONAL ARROW | → |
| TREE PROTECTION | ○ | | | PIPE FLOW DIRECTIONAL ARROW | → |
| EXISTING CONTOUR - MAJOR | 105 | | | | |
| EXISTING CONTOUR - MINOR | 104 | | | | |
| PROPOSED CONTOUR - MAJOR | 105 | | | | |
| PROPOSED CONTOUR - MINOR | 104 | | | | |
| SWALE | → | | | | |



SCALE: 1" = 30'



PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD88

SOUTH CAROLINA
 PROFESSIONAL ENGINEER
 No. 23172
 10/15/2023

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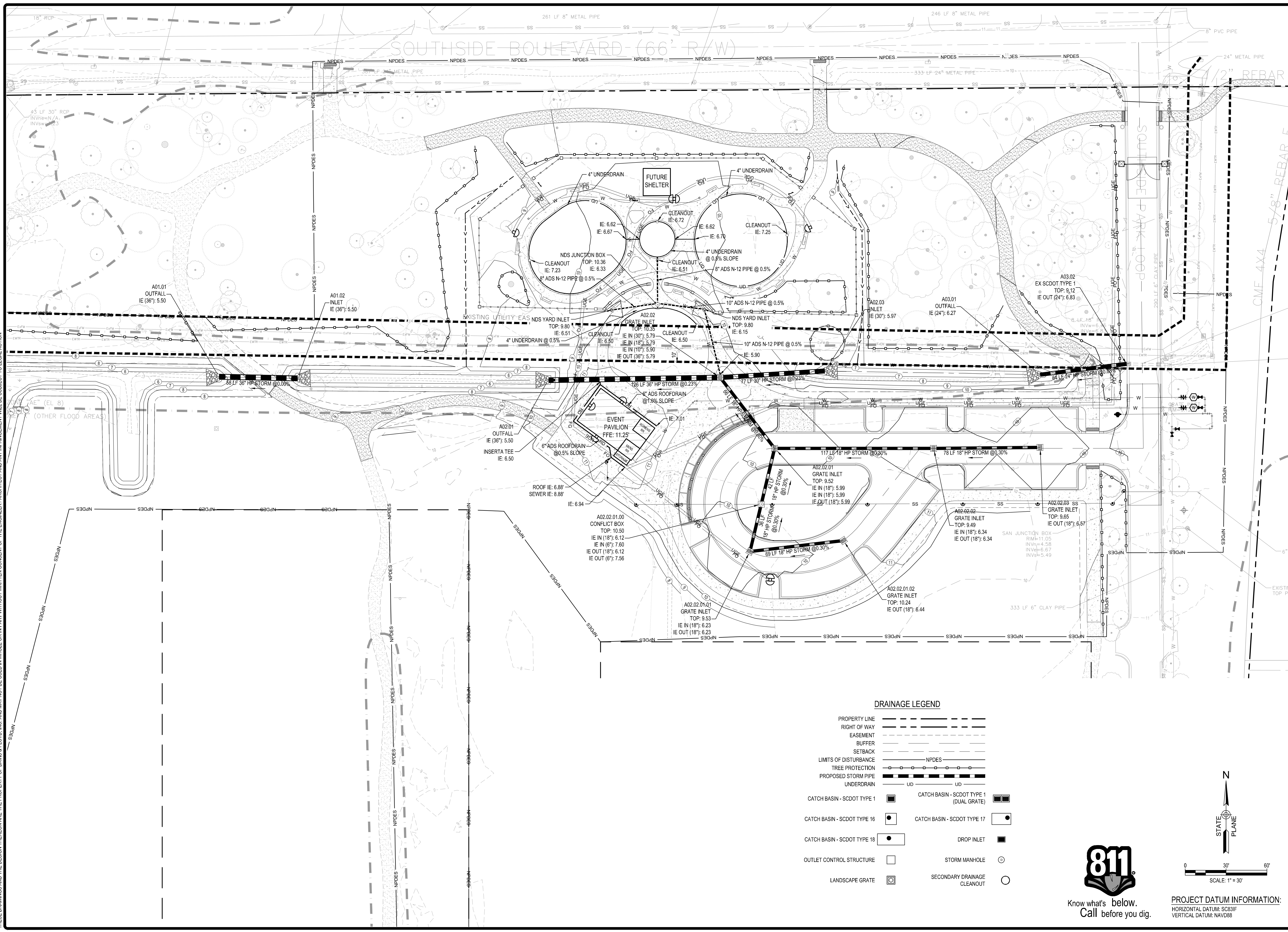
CITY OF BEAUFORT
 BEAUFORT, SC 29902
SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

GRADING PLAN - GRID 1

| NO. | DATE | DESCRIPTION | BY | CHECKED |
|-----|----------|-------------------|-----|---------|
| 1 | 03/20/24 | ISSUE FOR BIDDING | SRW | SRW |
| 2 | 10/15/23 | ISSUE FOR BIDDING | SRW | SRW |

PROJECT NO: 032024-00
 DATE: 10/15/2023
 DRAWN BY: SRW
 CHECKED BY: SRW
 PROJECT: SOUTH CAROLINA
 SHEET: C301
 TOTAL SHEETS: 13 OF 33

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 REGISTERED PROFESSIONAL ENGINEER
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OWNER: CITY OF BEAUFORT
 PROJECT TITLE: BEAUFORT, SC 29902
 SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

DRAINAGE PLAN - GRID 1

| NO. | DATE | DESCRIPTION | BY | CHKD | APP'D |
|-----|------------|-------------------|----|------|-------|
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| 2 | 10/15/2023 | ISSUE FOR BIDDING | BR | BR | BR |

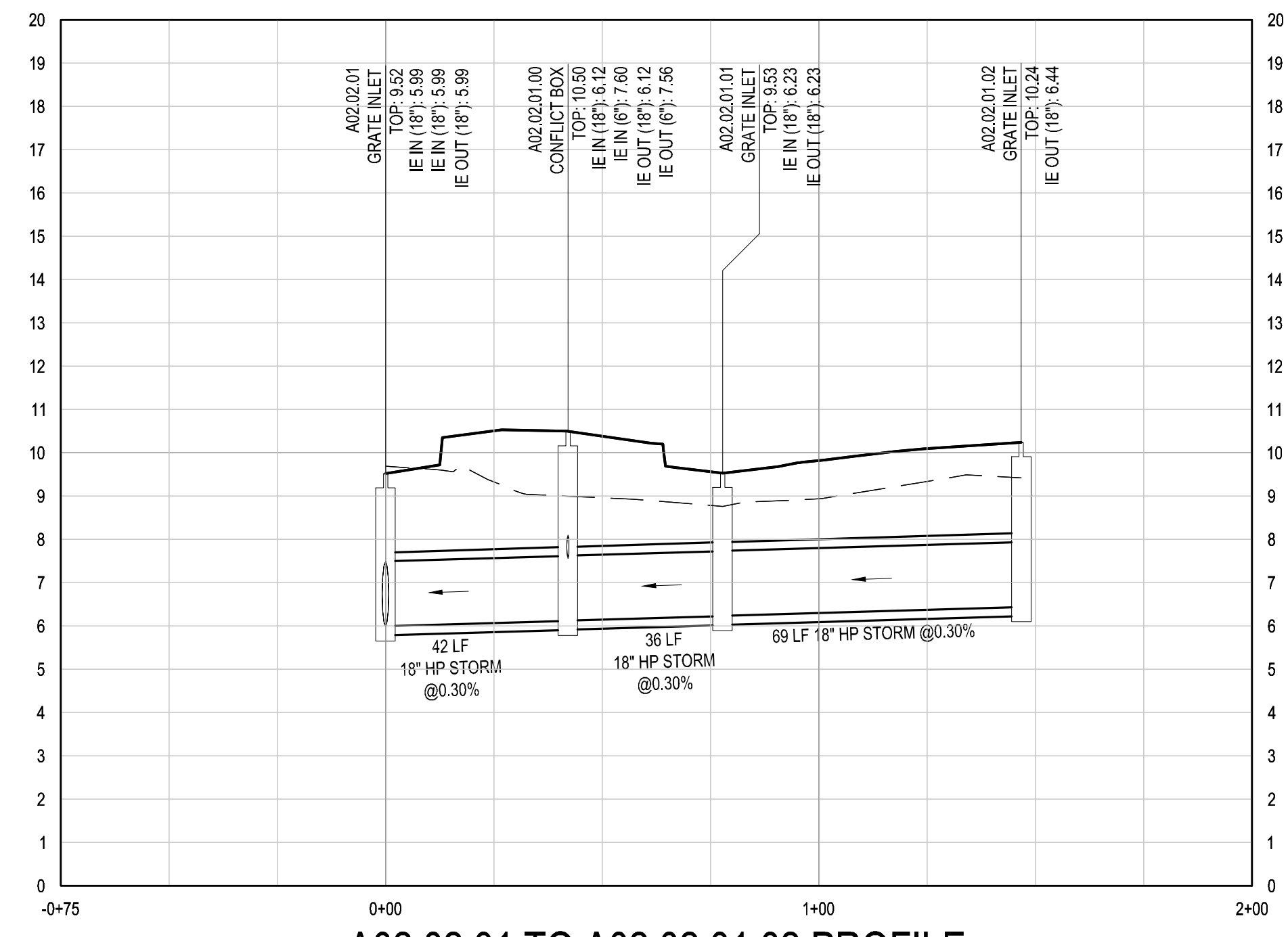
PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD88

811 Know what's below. Call before you dig.

SCALE: 1" = 30'
 0 30' 60'

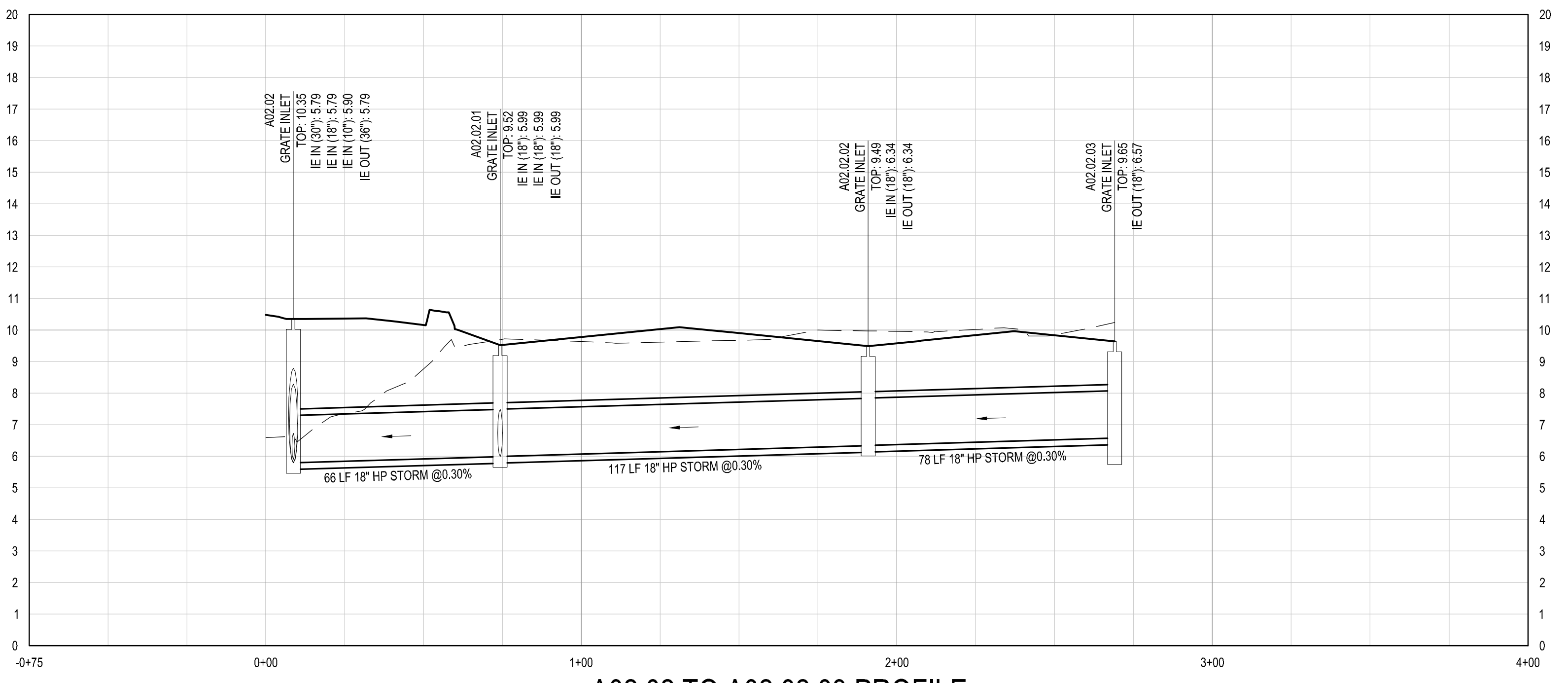
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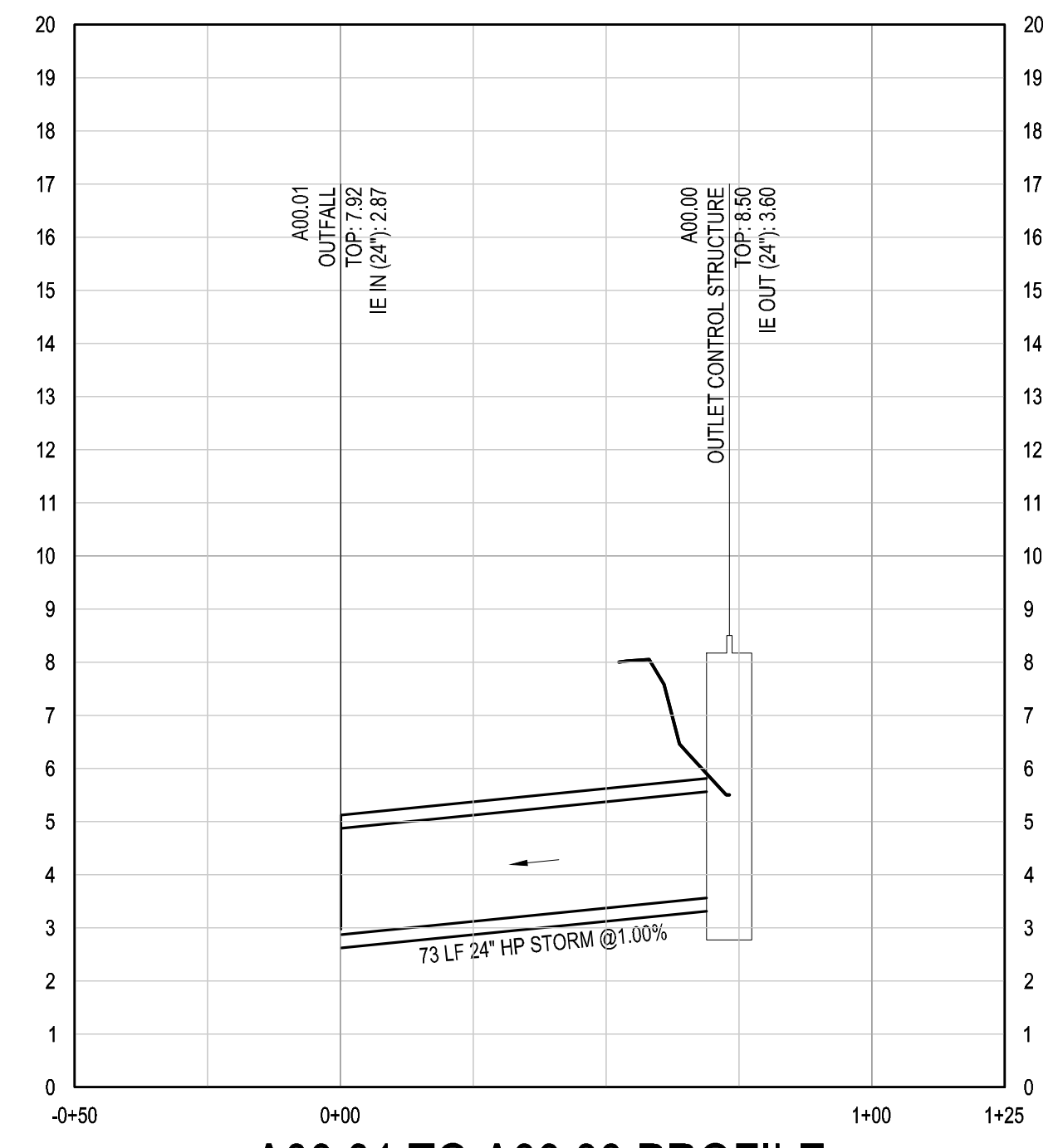
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SCALES: 1" = 30' HORIZONTAL, 1" = 3' VERTICAL



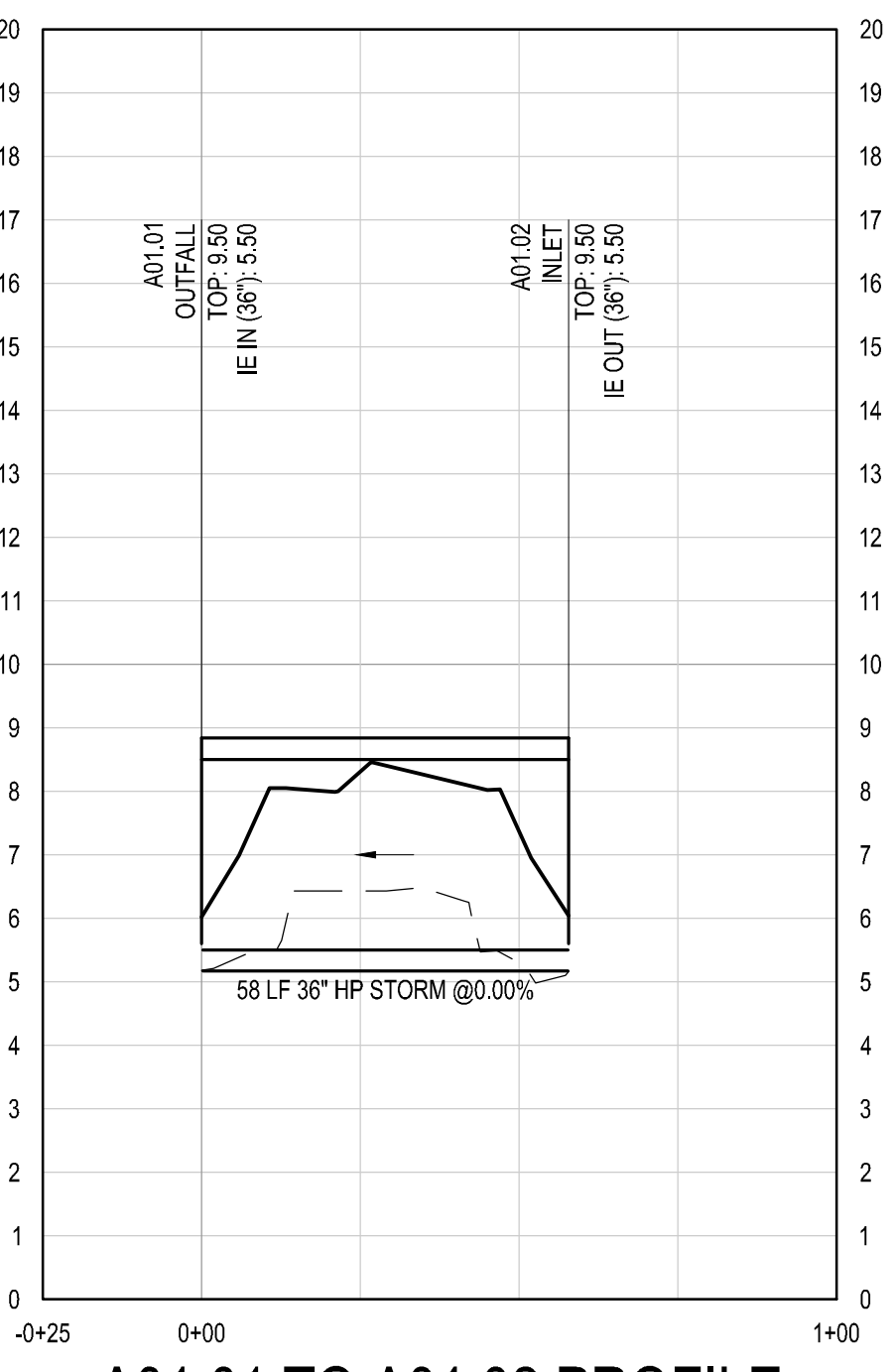
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SCALES: 1" = 30' HORIZONTAL, 1" = 3' VERTICAL



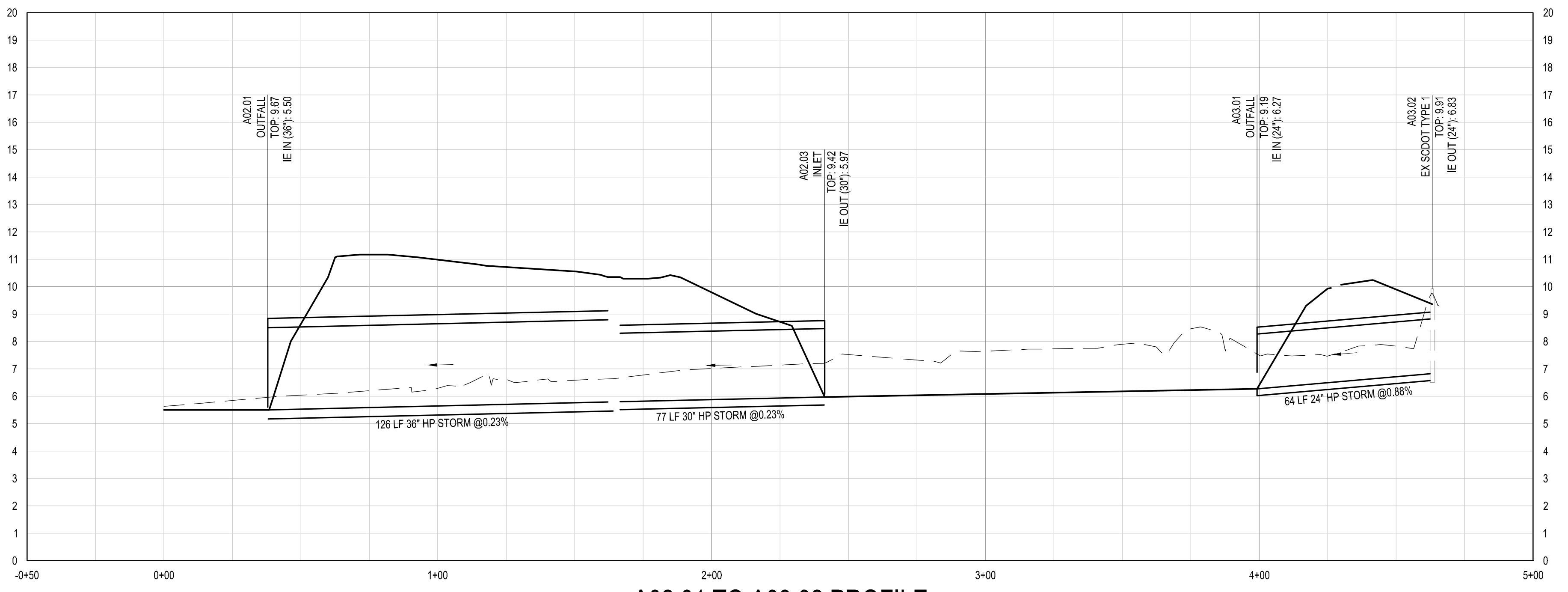
A00.01 TO A00.00 PROFILE

SCALES: 1" = 30' HORIZONTAL, 1" = 3' VERTICAL



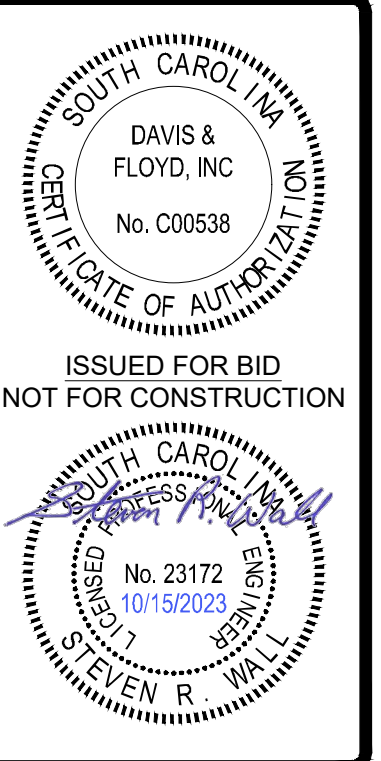
A01.01 TO A01.02 PROFILE

SCALES: 1" = 30' HORIZONTAL, 1" = 3' VERTICAL



A02.01 TO A03.02 PROFILE

SCALES: 1" = 30' HORIZONTAL, 1" = 3' VERTICAL



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CITY OF BEAUFORT
 BEAUFORT, SC 29902

PROJECT TITLE
SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

DRAWING TITLE
GRADING AND DRAINAGE PROFILES

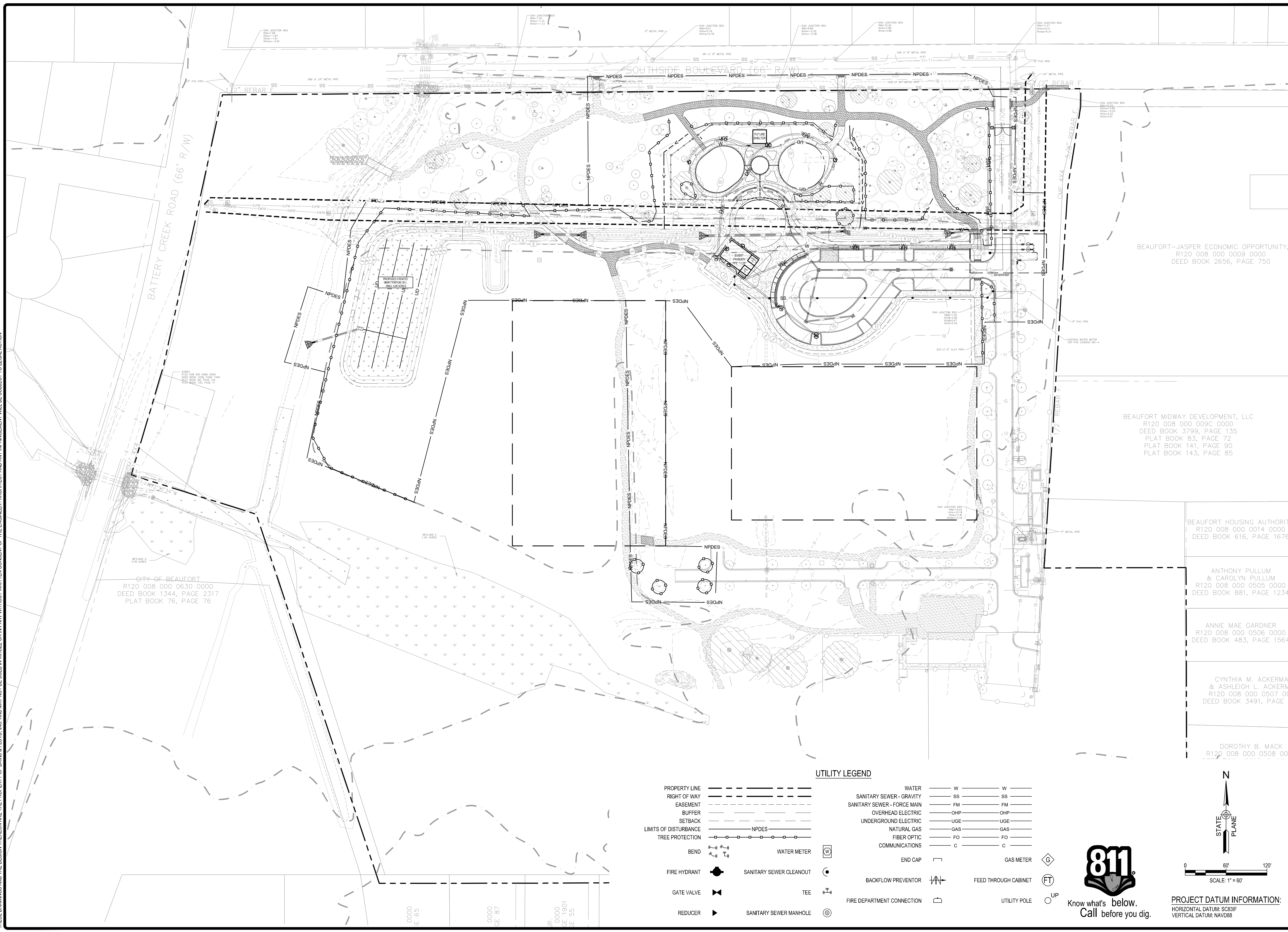
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| 2 | 10/15/2023 | ISSUE FOR BIDDING |

| DATE | BY | CHECKED | DATE |
|------------|-----|---------|------|
| 10/15/2023 | BAT | BAT | |
| | SRW | SRW | |
| | SRW | SRW | |



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 PLAT BOOK 76, PAGE 76

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 DEED BOOK 2656, PAGE 750

BEAUFORT MIDWAY DEVELOPMENT, LLC
 R120 008 000 009C 0000
 DEED BOOK 3799, PAGE 135
 PLAT BOOK 83, PAGE 72
 PLAT BOOK 141, PAGE 90
 PLAT BOOK 143, PAGE 85

BEAUFORT HOUSING AUTHORITY
 R120 008 000 0014 0000
 DEED BOOK 616, PAGE 1676

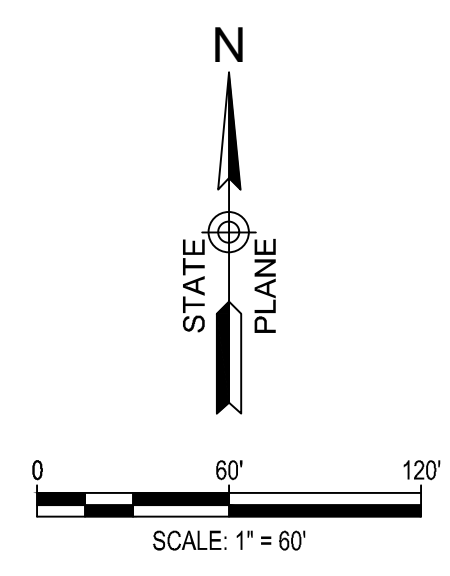
ANTHONY PULLUM
 & CAROLYN PULLUM
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 DEED BOOK 881, PAGE 1234

ANNIE MAE GARDNER
 R120 008 000 0506 0000
 DEED BOOK 483, PAGE 1564

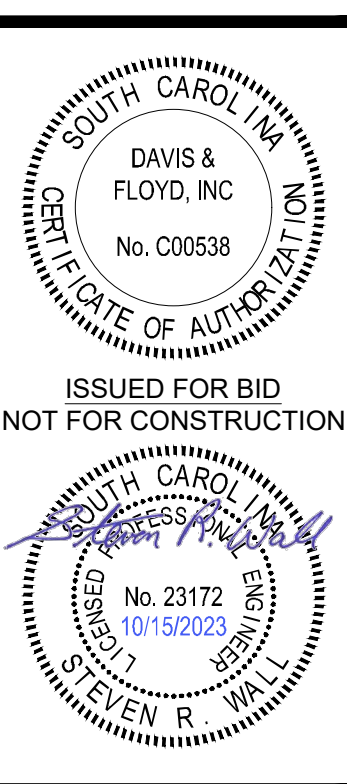
CYNTHIA M. ACKERMAN
 & ASHLEIGH L. ACKERMAN
 R120 008 000 0507 0000
 DEED BOOK 3491, PAGE 3

DOROTHY B. MACK
 R120 008 000 0508 0000

| PROPERTY LINE | | UTILITY LEGEND | |
|---------------|-----------------------|----------------|-----------------------------|
| --- | PROPERTY LINE | W | WATER |
| --- | RIGHT OF WAY | SS | SANITARY SEWER - GRAVITY |
| --- | EASEMENT | FM | SANITARY SEWER - FORCE MAIN |
| --- | BUFFER | OHP | OVERHEAD ELECTRIC |
| --- | SETBACK | UGE | UNDERGROUND ELECTRIC |
| --- | LIMITS OF DISTURBANCE | GAS | NATURAL GAS |
| --- | TREE PROTECTION | FO | FIBER OPTIC |
| --- | | C | COMMUNICATIONS |
| ⤵ | BEND | W | WATER METER |
| ⦿ | FIRE HYDRANT | ⦿ | SANITARY SEWER CLEANOUT |
| ⤵ | GATE VALVE | ⦿ | TEE |
| ⤵ | REDUCER | ⦿ | SANITARY SEWER MANHOLE |
| ⦿ | | ⦿ | BACKFLOW PREVENTOR |
| ⦿ | | ⦿ | FIRE DEPARTMENT CONNECTION |
| | | ⦿ | GAS METER |
| | | ⦿ | FEED THROUGH CABINET |
| | | ⦿ | UTILITY POLE |



PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD88



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 LANDSCAPE ARCHITECTURE
 LAND PLANNING

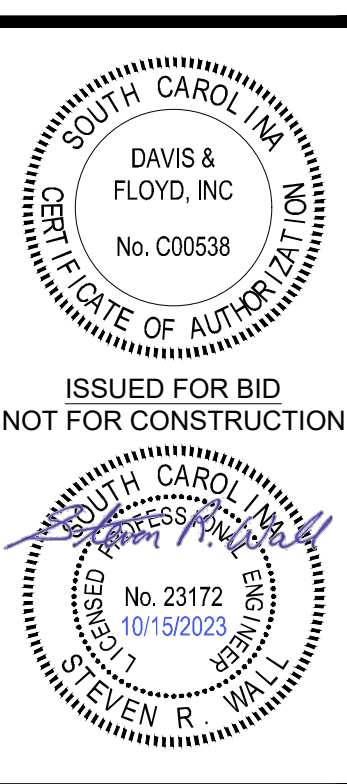
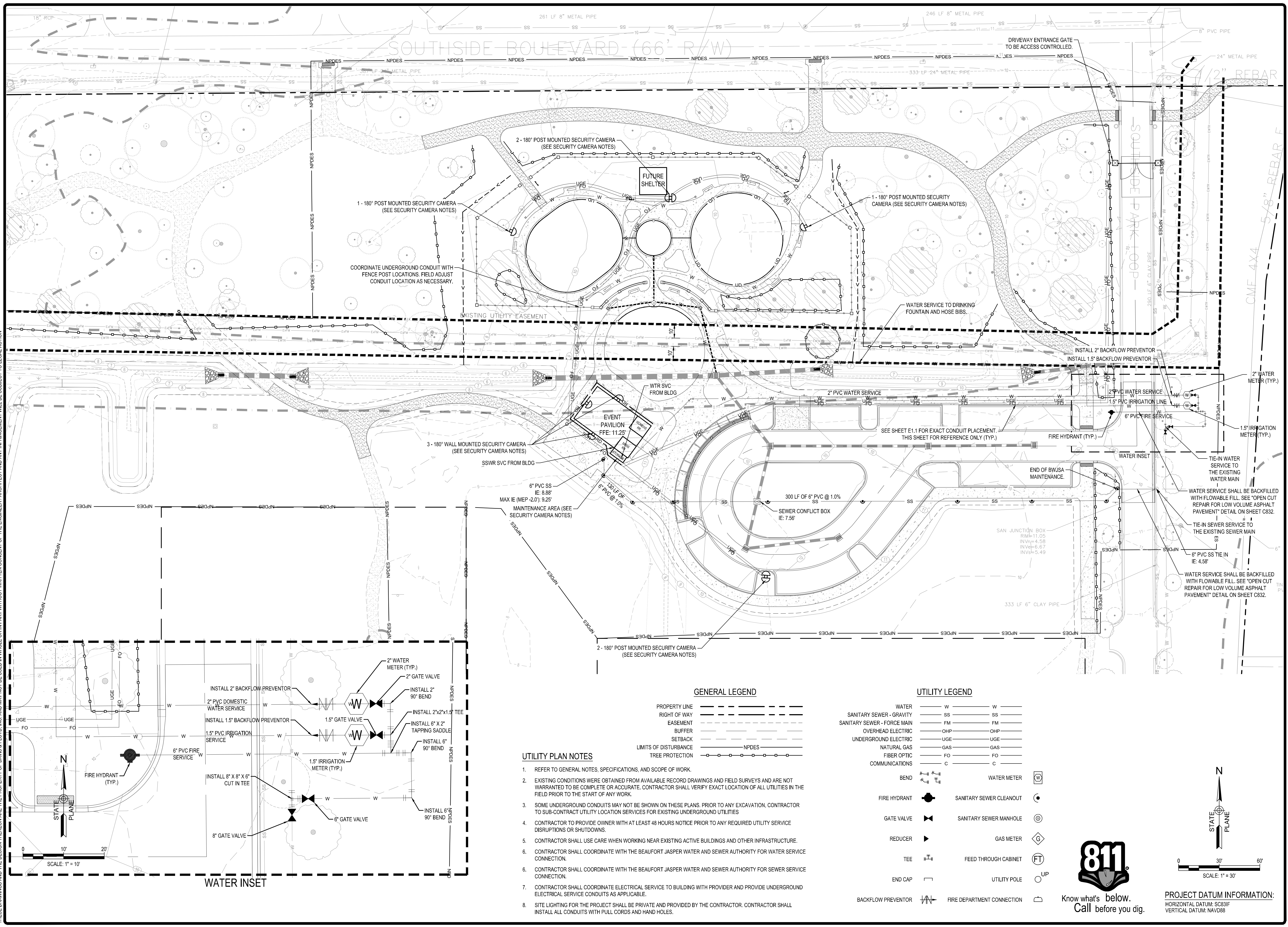
CITY OF BEAUFORT
 BEAUFORT, SC 29502
 PROJECT TITLE
SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

| NO. | DATE | DESCRIPTION | BY | CHECKED | DATE |
|-----|------------|-------------|-----|---------|------------|
| 1 | 03/20/24 | 00 | SRW | SRW | 08/19/2023 |
| 2 | 10/16/2023 | 00 | SRW | SRW | 10/19/2023 |

RELEASED

DATE: 03/20/24 00
 TIME: 10:16:2023
 USER: SRW
 PROJECT: BEAUFORT, SC 29502
 SHEET: SOUTH SIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS
 TITLE: OVERALL UTILITY PLAN
 SCALE: 1" = 60'
 PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD88
 PROJECT NO: C400
 PAGE 17 OF 33

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SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

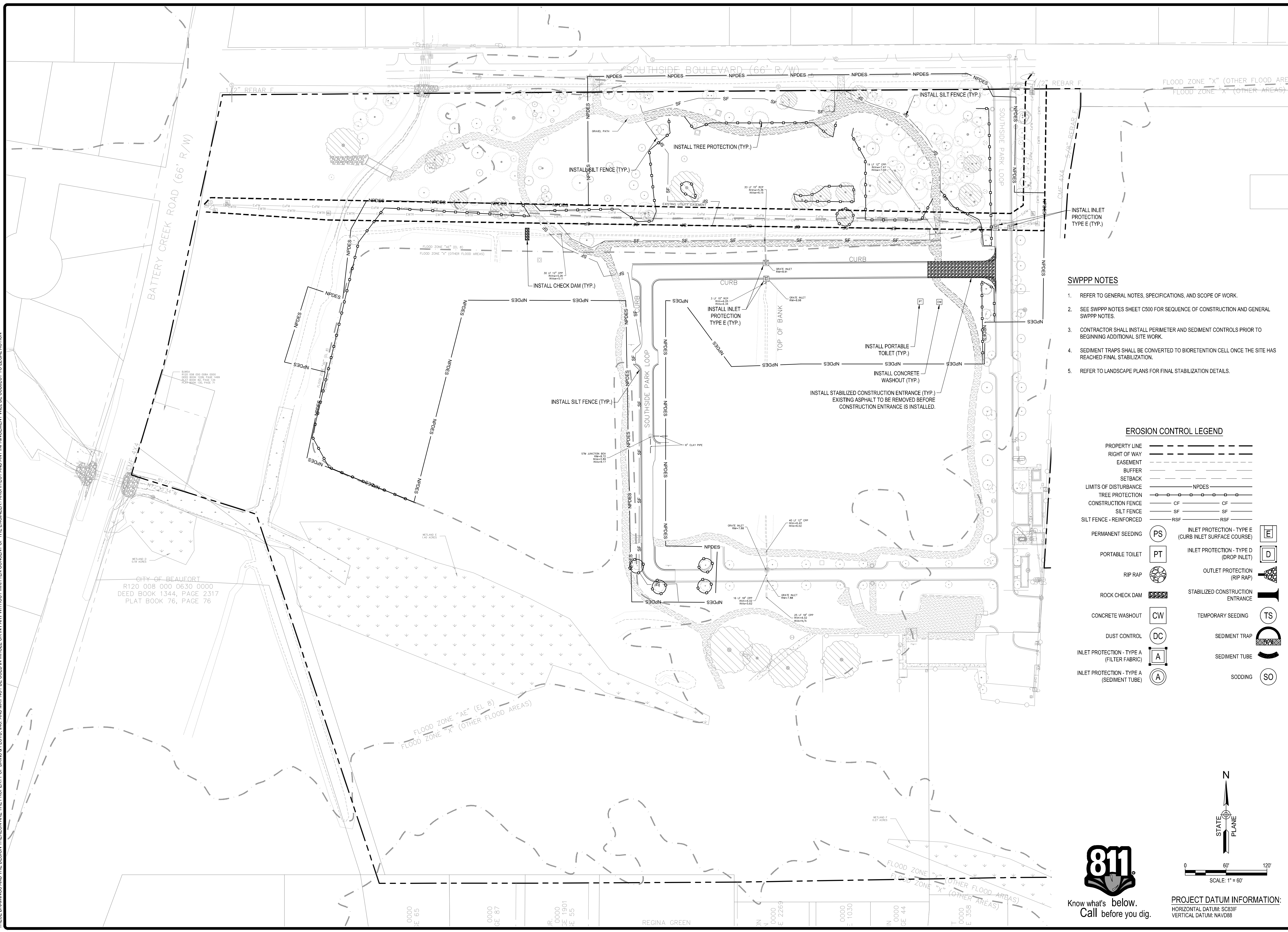
UTILITY PLAN - GRID 1

| NO. | DATE | DESCRIPTION |
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| 3 | 10/19/2023 | 00 |
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| 50 | 10/19/2023 | 00 |



PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD88

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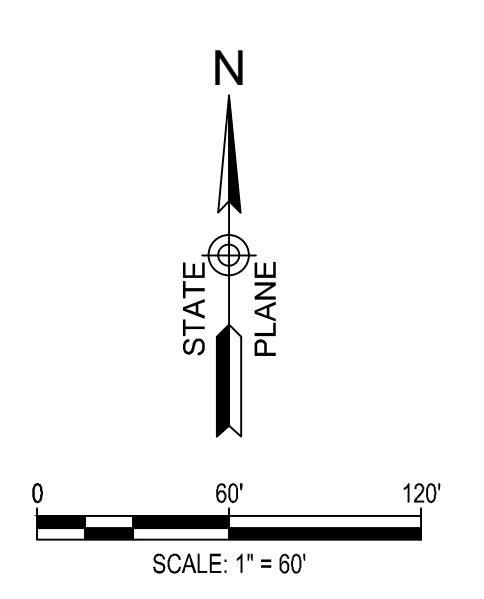


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 DEED BOOK 1344, PAGE 2317
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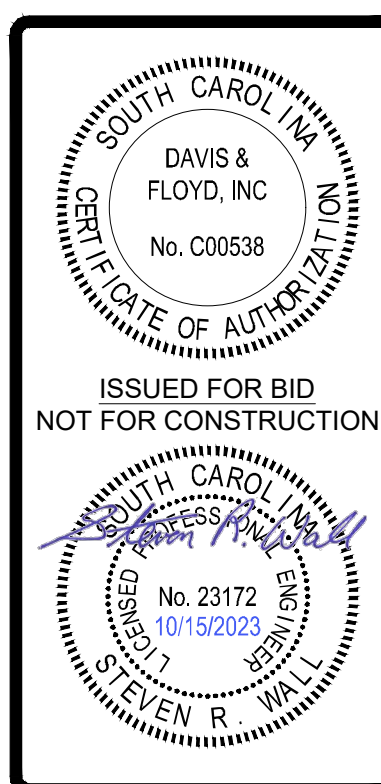
- SWPPP NOTES**
- REFER TO GENERAL NOTES, SPECIFICATIONS, AND SCOPE OF WORK.
 - SEE SWPPP NOTES SHEET C500 FOR SEQUENCE OF CONSTRUCTION AND GENERAL SWPPP NOTES.
 - CONTRACTOR SHALL INSTALL PERIMETER AND SEDIMENT CONTROLS PRIOR TO BEGINNING ADDITIONAL SITE WORK.
 - SEDIMENT TRAPS SHALL BE CONVERTED TO BIORETENTION CELL ONCE THE SITE HAS REACHED FINAL STABILIZATION.
 - REFER TO LANDSCAPE PLANS FOR FINAL STABILIZATION DETAILS.

EROSION CONTROL LEGEND

| | | | |
|---|---------|---|------|
| PROPERTY LINE | --- | INLET PROTECTION - TYPE E (CURB INLET SURFACE COURSE) | [E] |
| RIGHT OF WAY | ---- | INLET PROTECTION - TYPE D (DROP INLET) | [D] |
| EASEMENT | - - - - | OUTLET PROTECTION (RIP RAP) | [A] |
| BUFFER | ---- | STABILIZED CONSTRUCTION ENTRANCE | [I] |
| SETBACK | ---- | TEMPORARY SEEDING | [TS] |
| LIMITS OF DISTURBANCE | ---- | SEDIMENT TRAP | [DT] |
| TREE PROTECTION | ○ ○ ○ ○ | SEDIMENT TUBE | [ST] |
| CONSTRUCTION FENCE | CF | SODDING | [SO] |
| SILT FENCE | SF | | |
| SILT FENCE - REINFORCED | RSF | | |
| PERMANENT SEEDING | [PS] | | |
| PORTABLE TOILET | [PT] | | |
| RIP RAP | [RR] | | |
| ROCK CHECK DAM | [RCD] | | |
| CONCRETE WASHOUT | [CW] | | |
| DUST CONTROL | [DC] | | |
| INLET PROTECTION - TYPE A (FILTER FABRIC) | [A] | | |
| INLET PROTECTION - TYPE A (SEDIMENT TUBE) | [A] | | |



PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC831F
 VERTICAL DATUM: NAVD88



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 BEAUFORT, SC 29902

SOUTH SIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

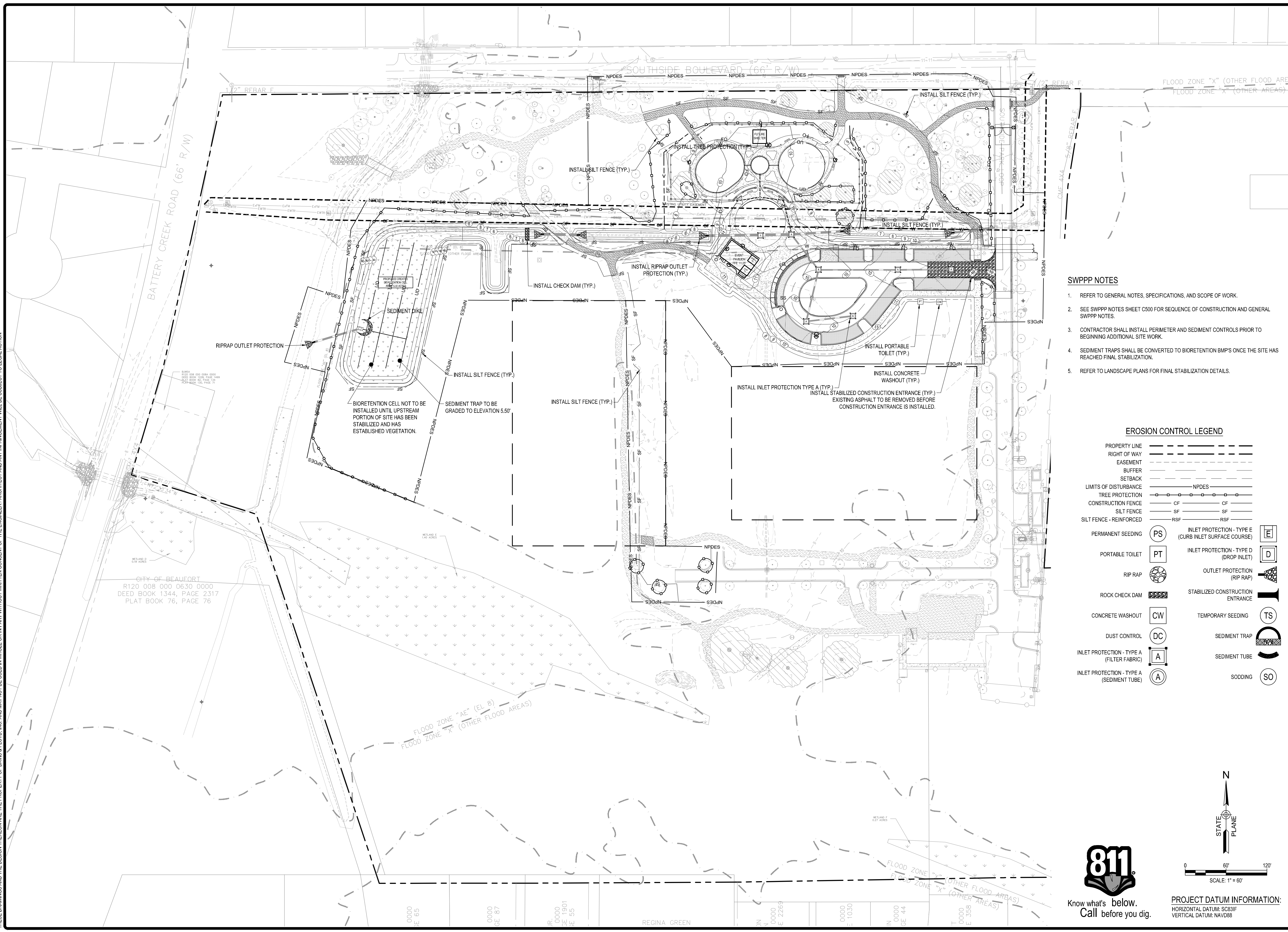
SWPPP PLAN - PHASE 1

| NO. | DATE | DESCRIPTION | BY | CHECKED | DATE |
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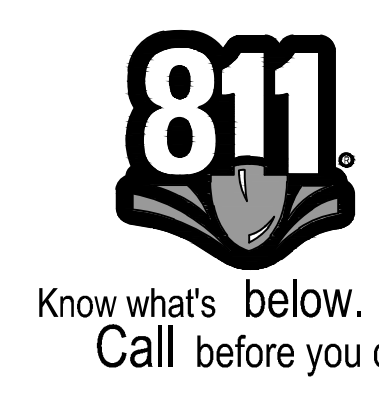


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 PLAT BOOK 76, PAGE 76

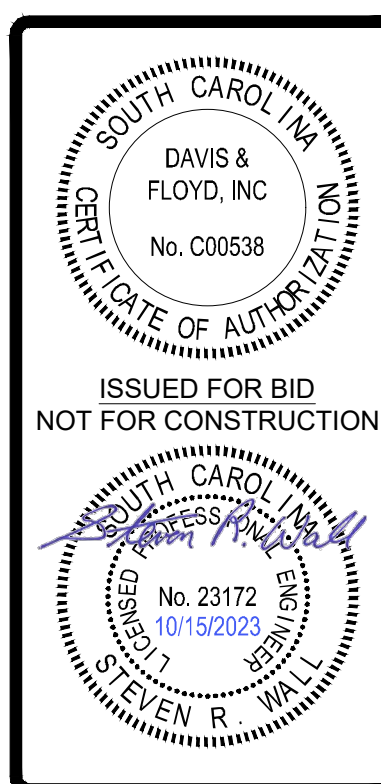
- SWPPP NOTES**
- REFER TO GENERAL NOTES, SPECIFICATIONS, AND SCOPE OF WORK.
 - SEE SWPPP NOTES SHEET C500 FOR SEQUENCE OF CONSTRUCTION AND GENERAL SWPPP NOTES.
 - CONTRACTOR SHALL INSTALL PERIMETER AND SEDIMENT CONTROLS PRIOR TO BEGINNING ADDITIONAL SITE WORK.
 - SEDIMENT TRAPS SHALL BE CONVERTED TO BIORETENTION BMP'S ONCE THE SITE HAS REACHED FINAL STABILIZATION.
 - REFER TO LANDSCAPE PLANS FOR FINAL STABILIZATION DETAILS.

EROSION CONTROL LEGEND

| | | | |
|---|---------|---|------|
| PROPERTY LINE | --- | INLET PROTECTION - TYPE E (CURB INLET SURFACE COURSE) | [E] |
| RIGHT OF WAY | ---- | INLET PROTECTION - TYPE D (DROP INLET) | [D] |
| EASEMENT | - - - - | OUTLET PROTECTION (RIP RAP) | [A] |
| BUFFER | ---- | STABILIZED CONSTRUCTION ENTRANCE | [S] |
| SETBACK | ---- | TEMPORARY SEEDING | [TS] |
| LIMITS OF DISTURBANCE | ---- | SEDIMENT TRAP | [D] |
| TREE PROTECTION | ○ ○ ○ ○ | SEDIMENT TUBE | [T] |
| CONSTRUCTION FENCE | CF | SODDING | [SO] |
| SILT FENCE | SF | | |
| SILT FENCE - REINFORCED | RSF | | |
| PERMANENT SEEDING | [PS] | | |
| PORTABLE TOILET | [PT] | | |
| RIP RAP | [RR] | | |
| ROCK CHECK DAM | [RCD] | | |
| CONCRETE WASHOUT | [CW] | | |
| DUST CONTROL | [DC] | | |
| INLET PROTECTION - TYPE A (FILTER FABRIC) | [A] | | |
| INLET PROTECTION - TYPE A (SEDIMENT TUBE) | [A] | | |



PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD88



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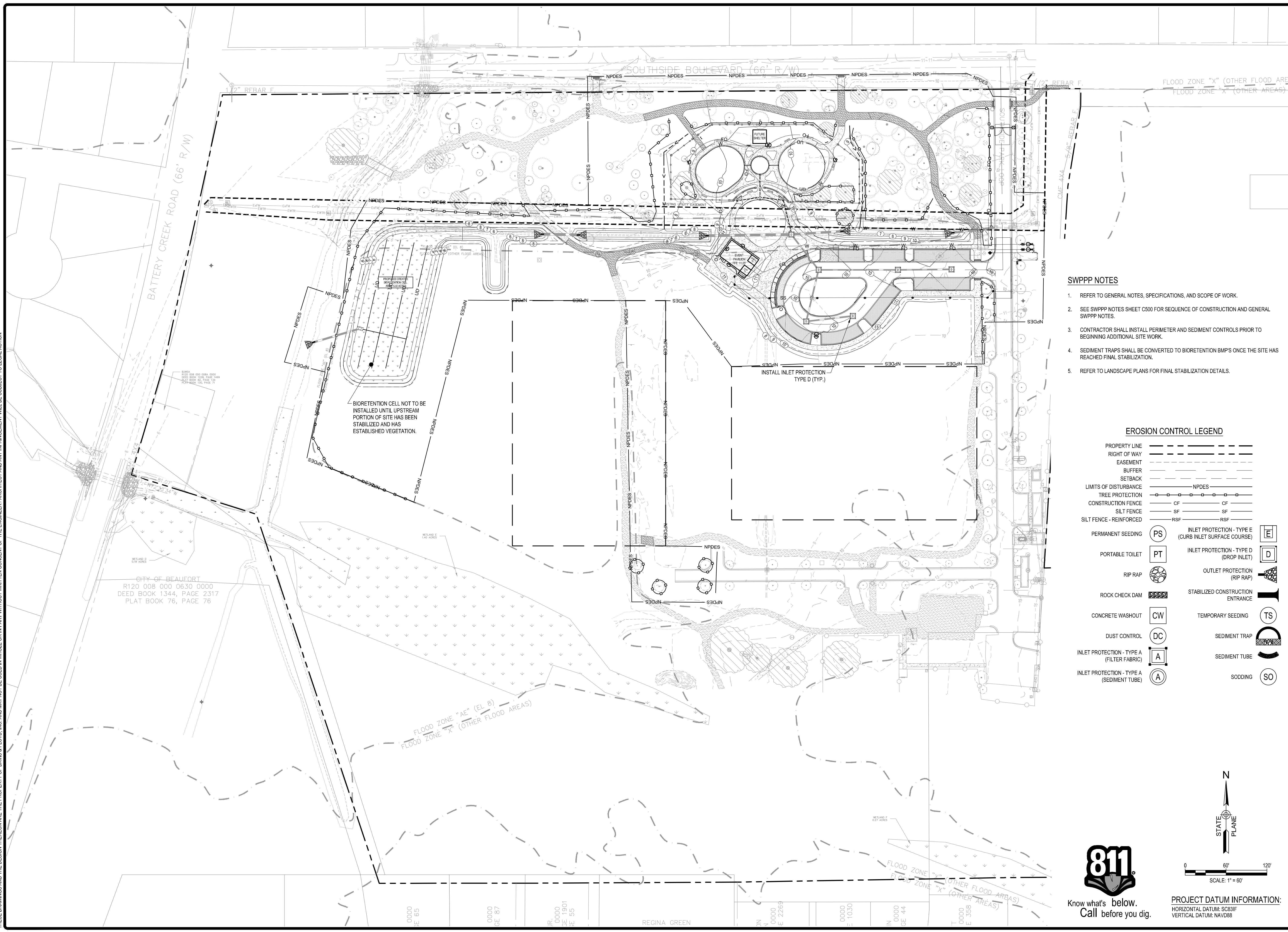
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 LANDSCAPE ARCHITECTURE
 LAND PLANNING

CITY OF BEAUFORT
 BEAUFORT, SC 29502
 PROJECT TITLE
SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

SWPPP PLAN - PHASE 2

| NO. | DATE | DESCRIPTION | BY | CHKD | APP'D |
|-----|------------|----------------------|-----|------|-------|
| 1 | 10/16/2023 | ISSUED FOR BID | BAT | | |
| 2 | 10/16/2023 | NOT FOR CONSTRUCTION | BAT | | |
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BIORETENTION CELL NOT TO BE
 INSTALLED UNTIL UPSTREAM
 PORTION OF SITE HAS BEEN
 STABILIZED AND HAS
 ESTABLISHED VEGETATION.

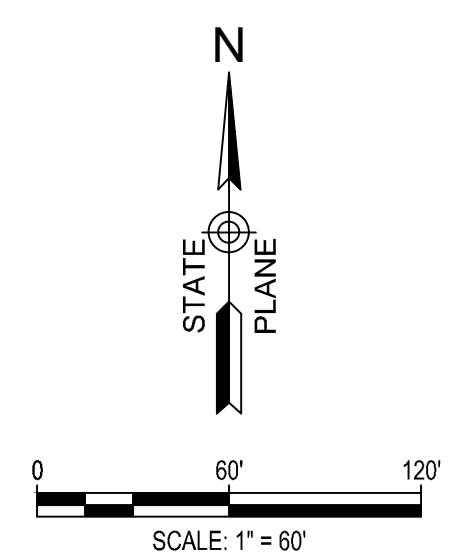
INSTALL INLET PROTECTION
 TYPE D (TYP.)

SWPPP NOTES

1. REFER TO GENERAL NOTES, SPECIFICATIONS, AND SCOPE OF WORK.
2. SEE SWPPP NOTES SHEET C500 FOR SEQUENCE OF CONSTRUCTION AND GENERAL SWPPP NOTES.
3. CONTRACTOR SHALL INSTALL PERIMETER AND SEDIMENT CONTROLS PRIOR TO BEGINNING ADDITIONAL SITE WORK.
4. SEDIMENT TRAPS SHALL BE CONVERTED TO BIORETENTION BMP'S ONCE THE SITE HAS REACHED FINAL STABILIZATION.
5. REFER TO LANDSCAPE PLANS FOR FINAL STABILIZATION DETAILS.

EROSION CONTROL LEGEND

| | | | |
|--|-----|--|--|
| PROPERTY LINE | --- | INLET PROTECTION - TYPE E (CURB INLET SURFACE COURSE) | |
| RIGHT OF WAY | --- | INLET PROTECTION - TYPE D (DROP INLET) | |
| EASEMENT | --- | OUTLET PROTECTION (RIP RAP) | |
| BUFFER | --- | STABILIZED CONSTRUCTION ENTRANCE | |
| SETBACK | --- | TEMPORARY SEEDING | |
| LIMITS OF DISTURBANCE | --- | SEDIMENT TRAP | |
| TREE PROTECTION | --- | SEDIMENT TUBE | |
| CONSTRUCTION FENCE | CF | SODDING | |
| SILT FENCE | SF | | |
| SILT FENCE - REINFORCED | RSF | | |
| PERMANENT SEEDING | | | |
| PORTABLE TOILET | | | |
| RIP RAP | | | |
| ROCK CHECK DAM | | | |
| CONCRETE WASHOUT | | | |
| DUST CONTROL | | | |
| INLET PROTECTION - TYPE A (FILTER FABRIC) | | | |
| INLET PROTECTION - TYPE A (SEDIMENT TUBE) | | | |



PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD88



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 BEAUFORT, SC 29502

SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

SWPPP PLAN - PHASE 3

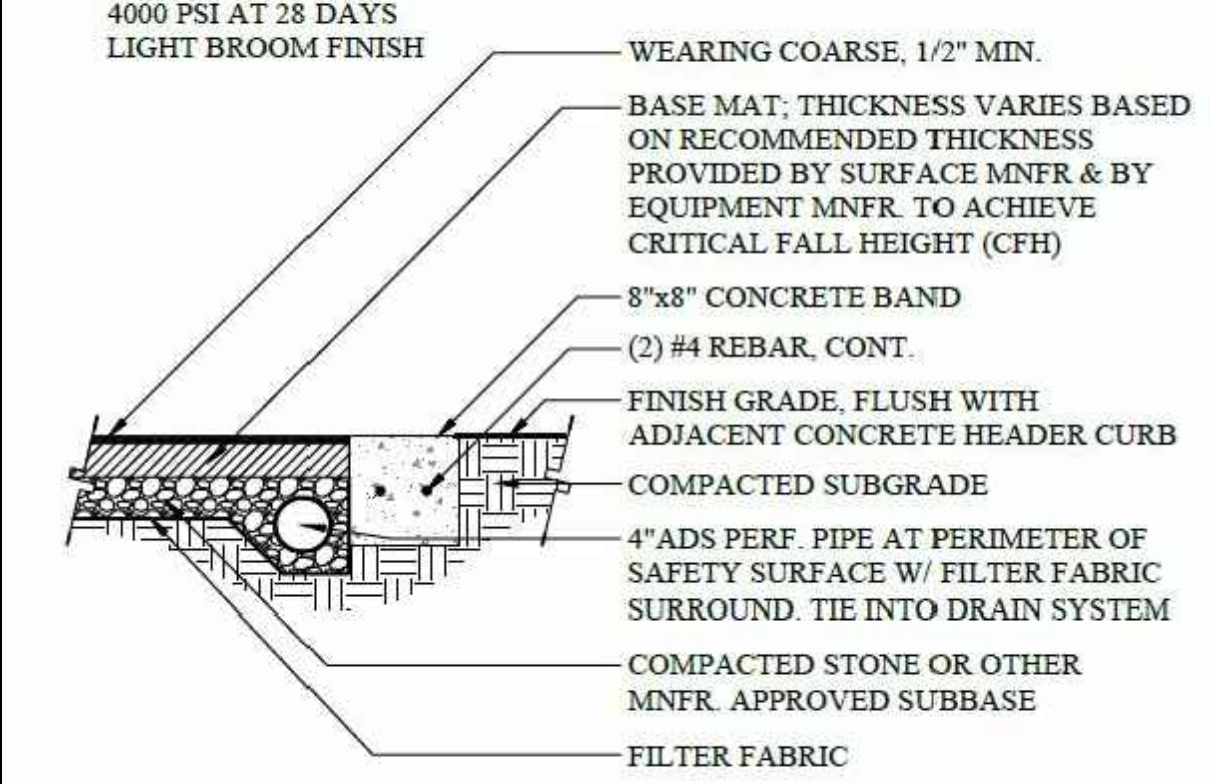
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| 2 | 10/15/2023 | 00 | SRW | 10/19/2023 | |

DATE: 10/15/2023
 TIME: 10:15 AM
 DRAWN BY: BAT
 CHECKED BY: SRW
 PROJECT NO: C530

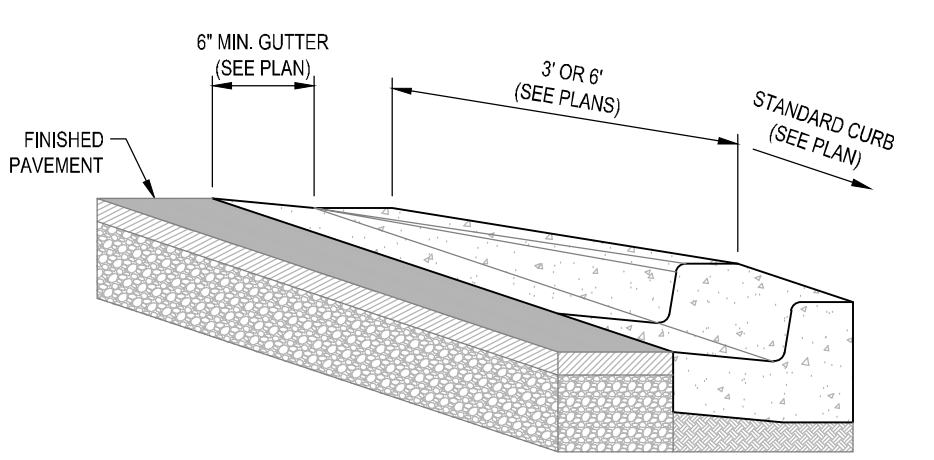
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- MATERIAL SELECTIONS:**
- PLAYGROUND SURFACING**
MFR. SEE DETAIL 1/L-304
COLORS: SEE DETAIL 1/L-304 FOR
COLOR SELECTIONS & LAYOUT
 - CONCRETE HEADER CURB:**
4000 PSI AT 28 DAYS
LIGHT BROOM FINISH
- NOTES:**
- PROVIDE 5x5 MOCKUP. SEE DETAIL 2/L-300A.
 - CONTRACTOR TO COORDINATE CONNECTION OF DRAIN LINE TO STORM SYSTEM. REFERENCE CIVIL PLANS FOR ADDITIONAL INFO.

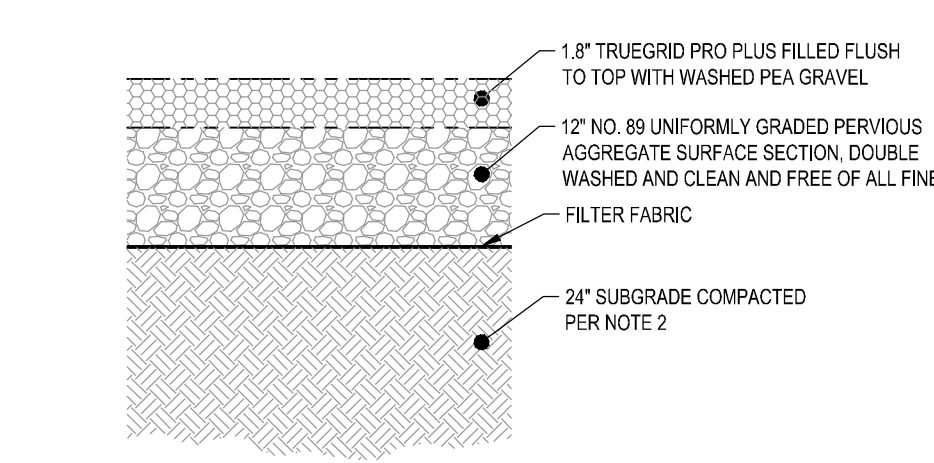


10 SAFETY SURFACING & CURBING
1" 1'-0"



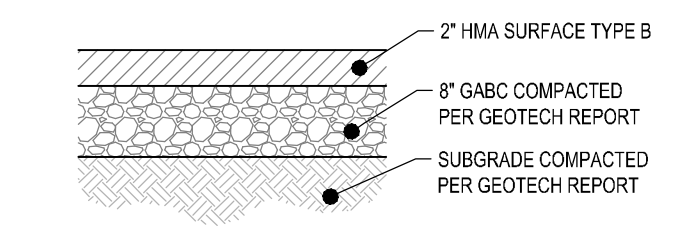
- NOTES:**
- ALL WORK, MATERIALS, AND CONSTRUCTION SHOULD MEET THE MINIMUM REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION'S (SCDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
 - USE TRANSITION CURBS AT END OF CURB AND GUTTER SECTIONS AND WHERE DROPPED CURBS ARE REQUIRED. SUCH AS AT ADA RAMPS.
 - USE MINIMUM 2,500 PSI CONCRETE (28 DAY).
 - CONCRETE CURB AND GUTTER SHALL HAVE A BROOMED FINISH.
 - HEIGHT OF CURB VARIES AT HANDICAP RAMPS.

CURB TRANSITION
N.T.S.



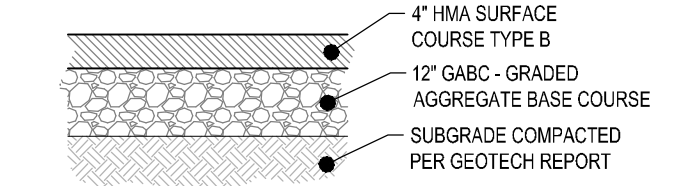
- NOTES:**
- ALL WORK, MATERIALS, AND CONSTRUCTION SHOULD MEET THE MINIMUM REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION'S (SCDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
 - SUBGRADE SHALL BE DRAINED. COARSE GRAINED SOIL. COMPACT IN-PLACE TO 95% OF SOILS MODIFIED PROCTOR MAXIMUM DRY DENSITY PER ASTM D1557.
 - SEE TRUGRID DRAWING NUMBER TG-GRV-HL-FL FOR MORE INFORMATION

TRUGRID PRO PLUS PERVIOUS PARKING GRAVEL SECTION DETAIL
N.T.S.



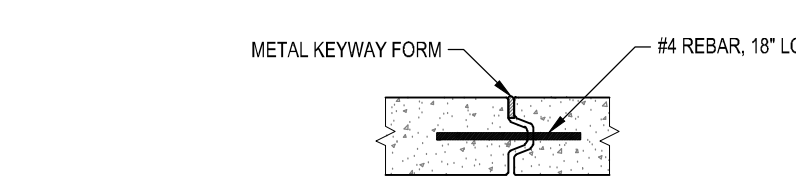
- NOTES:**
- ALL WORK, MATERIALS, AND CONSTRUCTION SHOULD MEET THE MINIMUM REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION'S (SCDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
 - SUBGRADE AND BASE COURSE SHALL BE PROOF ROLLED IN THE PRESENCE OF THE ENGINEER OR OWNER'S REPRESENTATIVE.
 - THE SUBGRADE SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY, AS DETERMINED BY THE STANDARD PROCTOR TEST AS DESCRIBED IN THE GEOTECH REPORT.
 - USE FOR PARKING SPACES AND OTHER LOW-WEIGHT VEHICLE AREAS.

LIGHT DUTY ASPHALT SECTION
N.T.S.



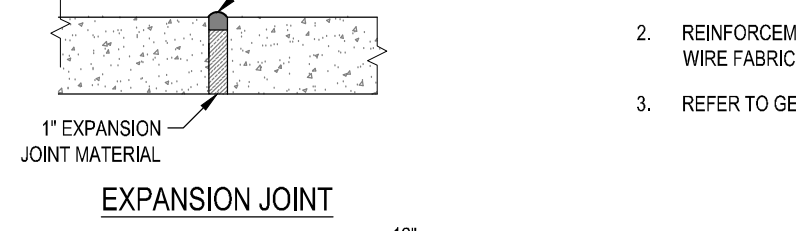
- NOTES:**
- ALL WORK, MATERIALS, AND CONSTRUCTION SHOULD MEET THE MINIMUM REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION'S (SCDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
 - SUBGRADE AND BASE COURSE SHALL BE PROOF ROLLED IN THE PRESENCE OF THE ENGINEER OR OWNER'S REPRESENTATIVE.
 - THE SUBGRADE SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY, AS DETERMINED BY THE STANDARD PROCTOR TEST AS DESCRIBED IN THE GEOTECH REPORT.
 - USE FOR TRUCKS AND DRIVE AREAS.

HEAVY DUTY ASPHALT SECTION
N.T.S.

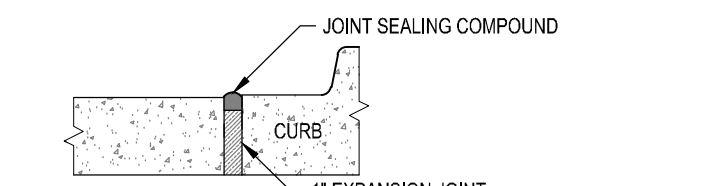


NOTE: USE AS NEEDED FOR TERMINATION OF CONCRETE POUR

KEYED CONSTRUCTION JOINT



EXPANSION JOINT



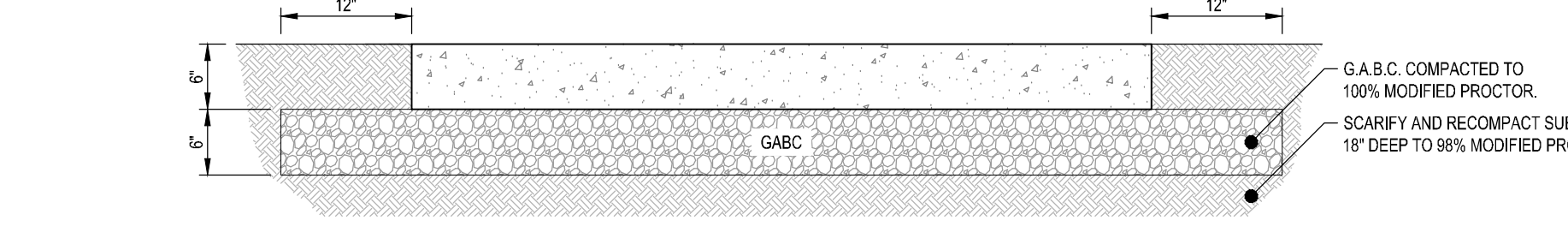
ISOLATION JOINT



CONTROL JOINT

- NOTES:**
- USE MINIMUM 4,000 PSI CONCRETE (28 DAYS).
 - REINFORCEMENT: USE EITHER 12"x12" - W18XW16 WELDED WIRE FABRIC OR 8"x8" - W8XW8 WELDED WIRE FABRIC.
 - REFER TO GEOTECH REPORT.

NOTE: CONTROL JOINTS SPACED 10 FEET C/C MAXIMUM.



HEAVY DUTY CONCRETE FOR ADA PARKING SPACE
N.T.S.

NOTES:

- SUB-BASE DEPTH AND PREPARATION IS DEPENDENT ON SITE CONDITIONS PLUS LOADING REQUIREMENTS.
- TRUEGRID PRO PLUS PRODUCTS ARE SUFFICIENTLY RATED FOR H-20 /HS-20 LOADING AND GREATER.
- GEOGRID MESH OR GEOTEXTILE MAY BE REQUIRED BETWEEN SUB-GRADE & SUB-BASE FOR CERTAIN SOILS AND SITE SPECIFIC REQUIREMENTS.
- INCREASE SUB-BASE DEPTH FOR INCREASED STORM WATER DETENTION.
- NO STAKING NECESSARY WITH TRUEGRID PRO PLUS WHEN SLOPE IS BELOW 20 DEGREES. ASSESS PROJECT, AS NEEDED.
- TRUEGRID PRO PLUS IS ADA COMPLIANT WITH PROPER FILL MATERIAL.
- FINAL ENGINEERED CROSS SECTION AGGREGATES AND DEPTH SHOULD ALLOW FOR EXPECTED INFILTRATION RATES, STORAGE CAPACITIES, OUTLET FLOW RATES, AND OTHER SITE SPECIFIC CONDITIONS AND LOAD REQUIREMENTS.
- THIS CROSS SECTION IS FOR INFORMATION ONLY.

TRUEGRID BLOCK REFERENCE VIEW
PREASSEMBLED & DELIVERED IN 4' X 4' SHEET. RECONFIGURED AS NEEDED. NO EXTRA TOOLING OR ACCESSORIES REQUIRED.

ADJOINING FINISH GRADE TRUEGRID SURFACE FLUSH OR SLIGHTLY RECESSED SEE DRAWING TG-EDGE-OPTS FOR EDGING OPTIONS

FOR PRICING OR ORDERING: CALL 1-855-355-GRID (4743). IN STOCK. FACTORY DIRECT.

PERVIOUS PARKING - GRAVEL FILL TRUEGRID PRO PLUS

1-855-355-GRID (4743)

CLIENT / PROJECT

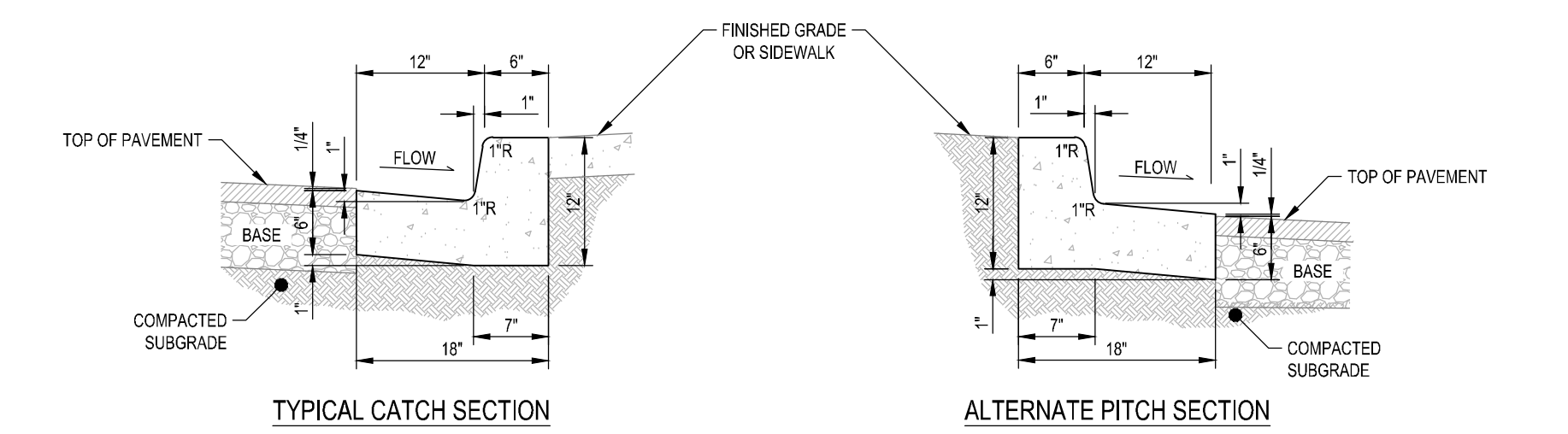
TRUEGRID GRAVEL FILL INSTALLATION
HEAVY LOAD FIRE LANE

TRUEGRID
Track by your projects from the environment.

| | | |
|-----|-----------------|------------|
| NO. | DESCRIPTION | DATE |
| 1 | ISSUE SUBMITTAL | 09/19/2023 |
| 2 | ISSUE SUBMITTAL | 10/19/2023 |

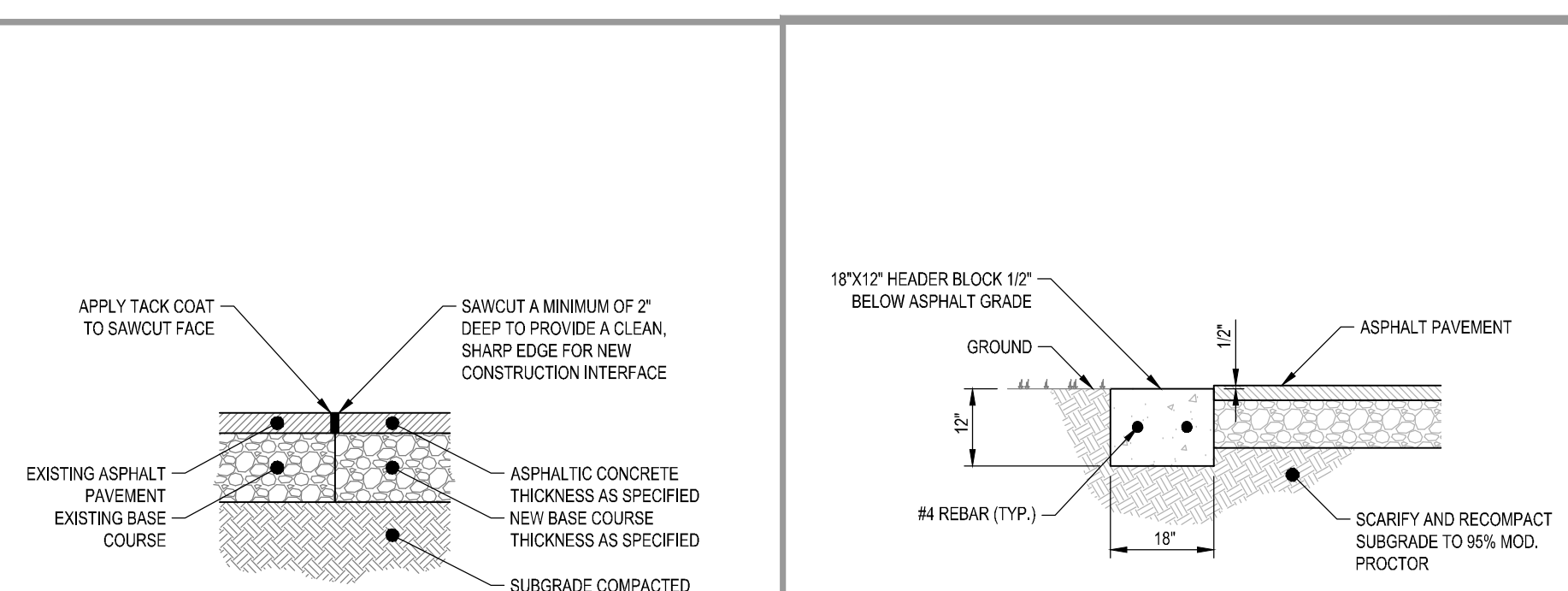
| | | | |
|------------|----------|----------|----------|
| DATE | DESIGNED | CHECKED | APPROVED |
| 10/15/2023 | J. Thedy | J. Thedy | C. Webb |

| | | |
|-------|-------|-----|
| SCALE | SHEET | OF |
| 1:1 | 06 | 10F |



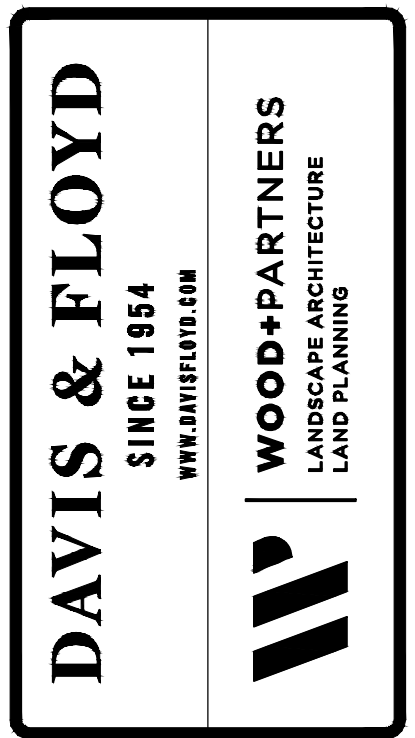
- NOTES:**
- ALL WORK, MATERIALS, AND CONSTRUCTION SHOULD MEET THE MINIMUM REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION'S (SCDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
 - USE MINIMUM 2,500 PSI CONCRETE (28 DAY).
 - CONCRETE CURB AND GUTTER SHALL HAVE A BROOMED FINISH.
 - HEIGHT OF CURB VARIES AT HANDICAP RAMPS.
 - PROVIDE CONTRACTION JOINTS EVERY 10' AND 34" EXPANSION JOINTS EVERY 30'.
 - DETAIL PROVIDED FOR WORK WITHIN LOCAL STREETS AND ON PRIVATE PROPERTY. WORK WITHIN SCDOT RIGHT-OF-WAY SHALL BE GOVERNED BY SCDOT STANDARD DRAWINGS AND SPECIFICATIONS.

STANDARD 18" CONCRETE CURB AND GUTTER
N.T.S.



PAVEMENT TIE-IN
N.T.S.

HEADER FLAT CURB
N.T.S.



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BEAUFORT, SC 29902

SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

SITE DETAILS

| | | |
|-----|-----------------|------------|
| NO. | DESCRIPTION | DATE |
| 1 | ISSUE SUBMITTAL | 09/19/2023 |
| 2 | ISSUE SUBMITTAL | 10/19/2023 |

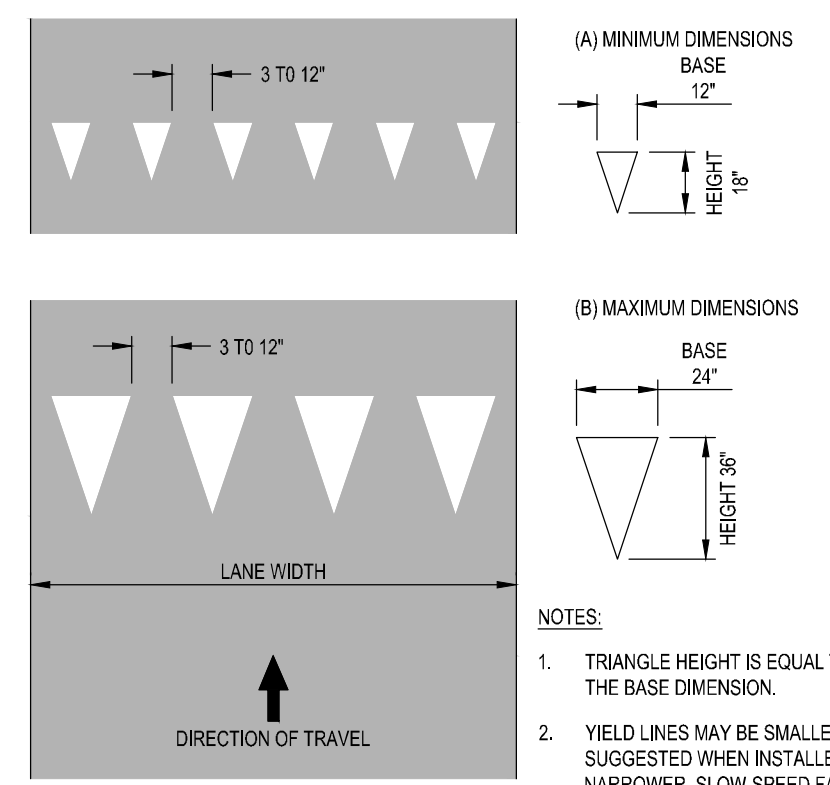
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|------------|----------|----------|----------|
| DATE | DESIGNED | CHECKED | APPROVED |
| 10/15/2023 | J. Thedy | J. Thedy | C. Webb |

| | | |
|-------|-------|-----|
| SCALE | SHEET | OF |
| 1:1 | 06 | 10F |

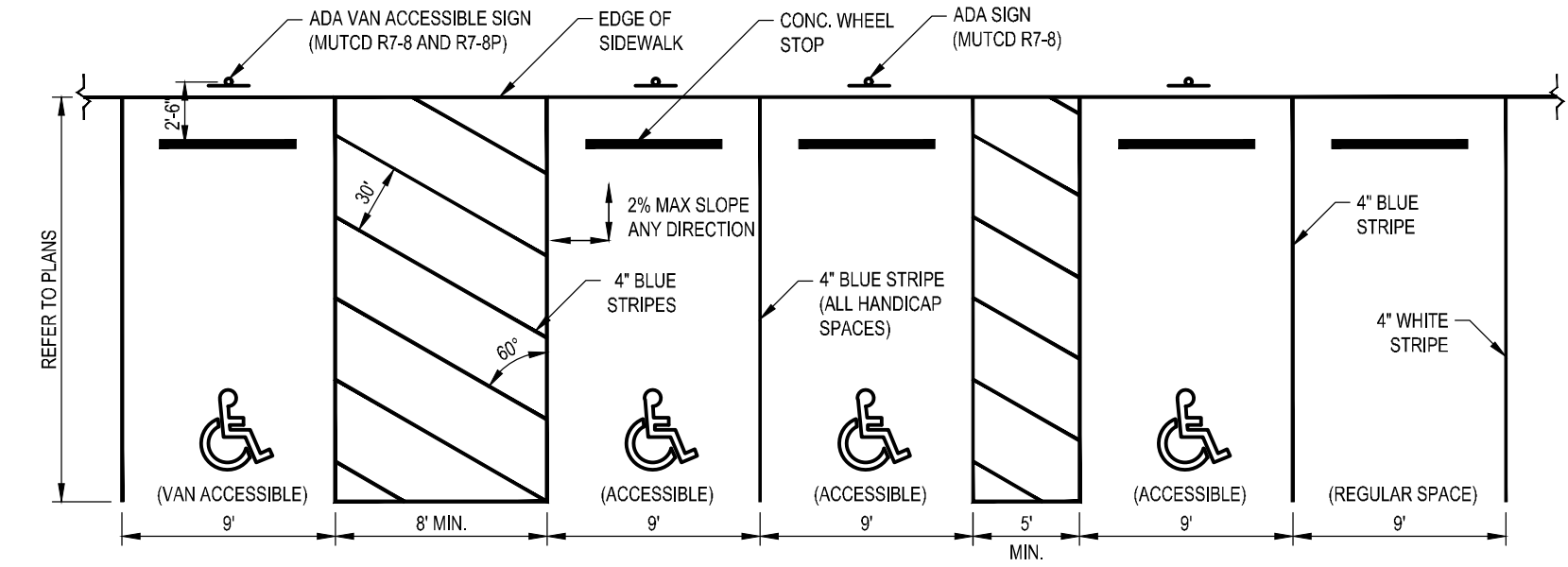
C820

PAGE 24 OF 33

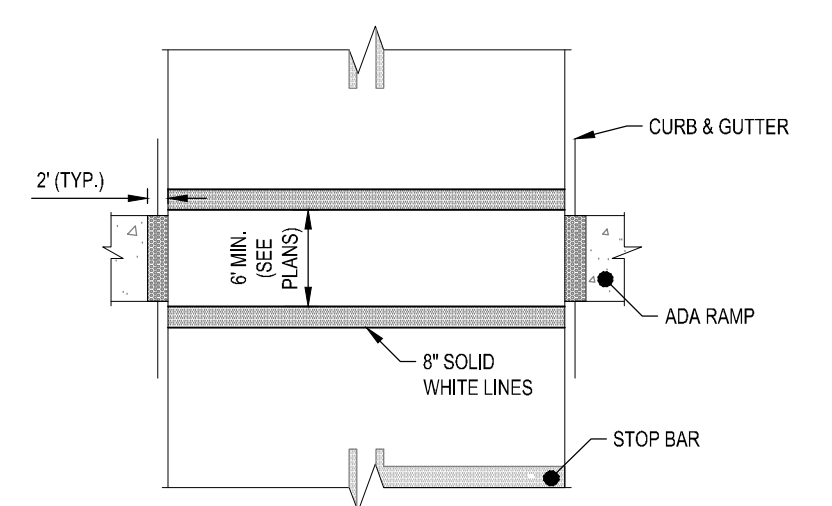
G:\Jobs\1032024-00\Production\Civil\Drawings\1032024-00-DETAILS.dwg, 10/15/2023 5:41:09 PM, Brandon A. Unksie
 THESE DRAWINGS AND THE DESIGN THEREON ARE THE PROPERTY OF DAVIS & FLOYD, INC. AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF THE ENGINEER, ARCHITECT AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION



YIELD LINE
N.T.S.

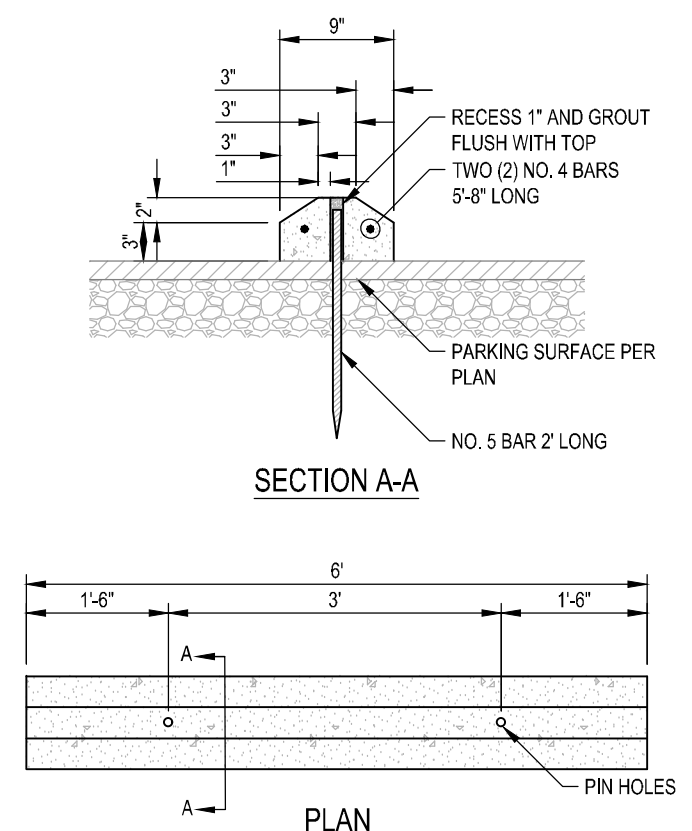


ADA ACCESS LANE MARKINGS FOR CAR PARKING
N.T.S.

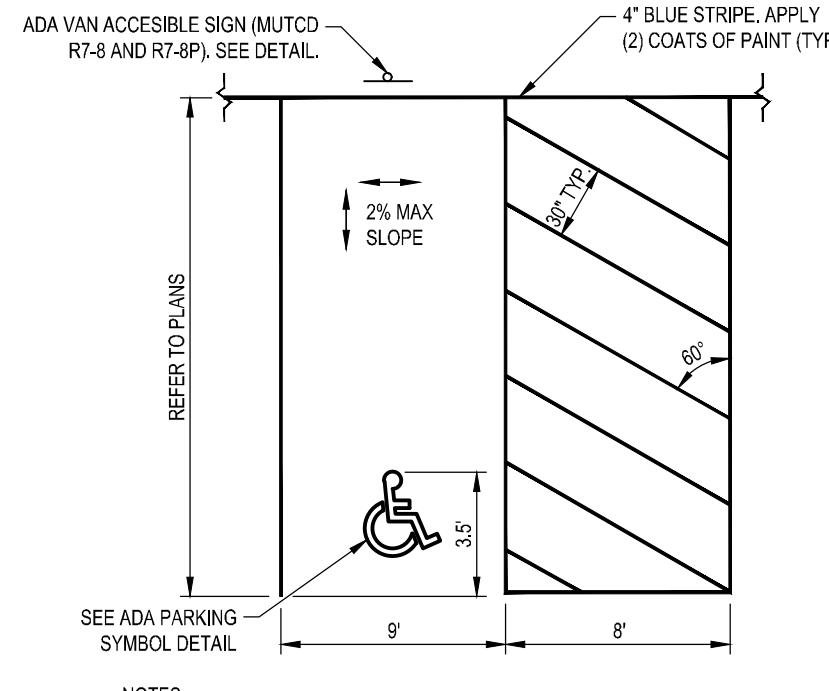


- NOTES:**
- REFER TO SCDOT STANDARD DRAWING 625-305-00 "STANDARD MARKINGS FOR INTERSECTIONS"
 - ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.
 - EXTEND CROSSWALK LINES ALL THE WAY ACROSS THE TRAVEL WAY.

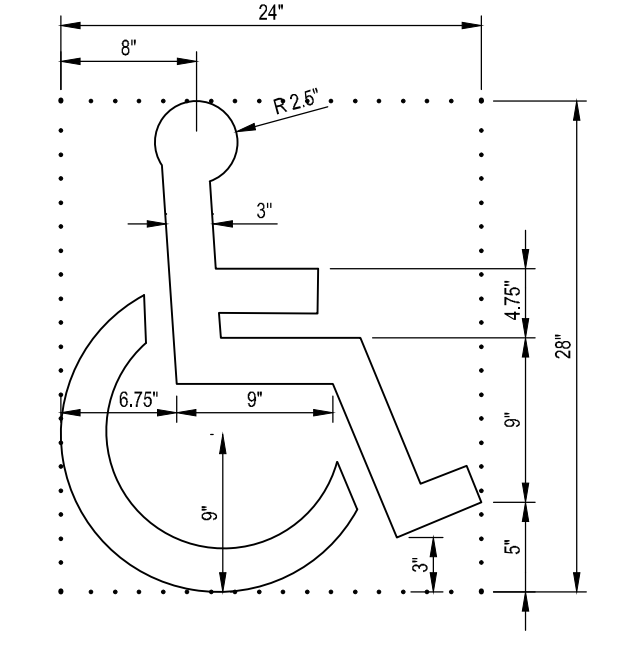
PEDESTRIAN CROSSWALK
N.T.S.



CONCRETE WHEEL STOP
N.T.S.

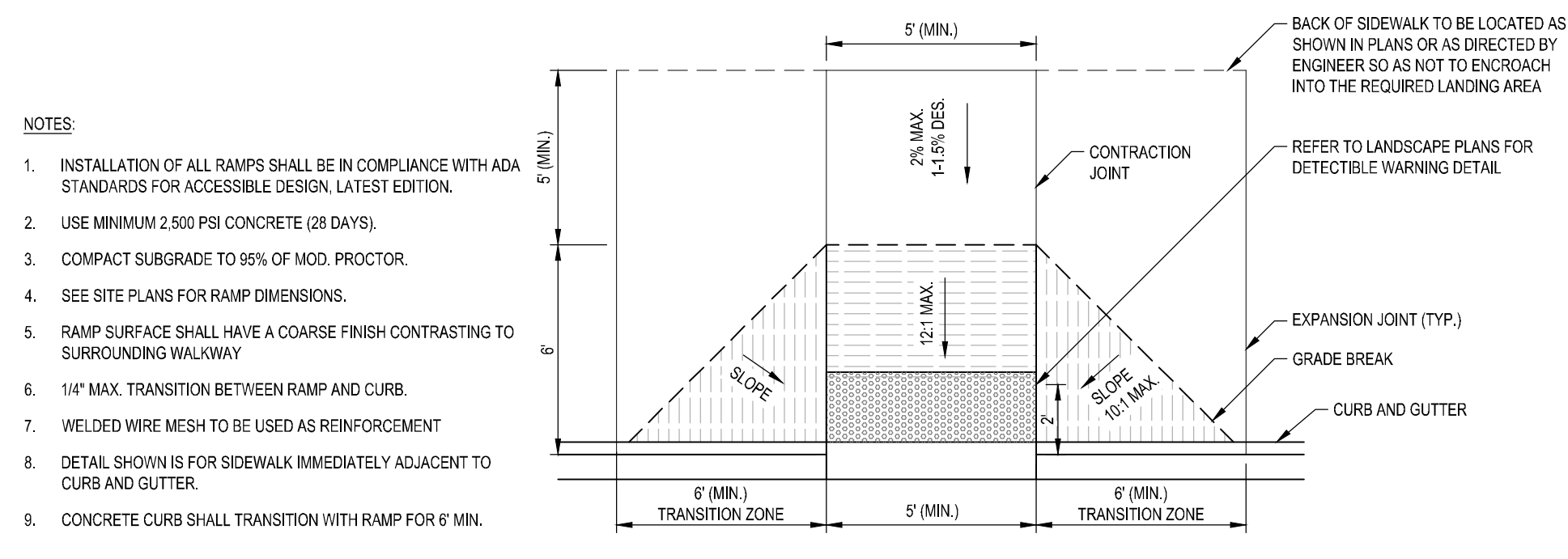


VAN ACCESSIBLE STALL STRIPING
N.T.S.



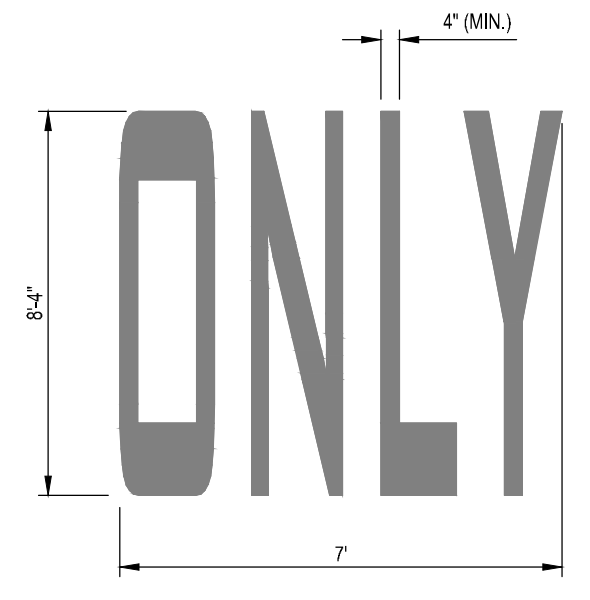
- NOTES:**
- INSTALLATION OF ALL SIGNS AND MARKINGS SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.
 - INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING (FIG. 3B-22, MUTCD, 2009).
 - CENTER IN PARKING SPACE APPROX. 3.5' FROM THE ENTRANCE OF THE PARKING SPACE.
 - APPLY (2) COATS HANDICAP BLUE COLORED PAINT, 3" MINIMUM STROKE WIDTH.

ADA PARKING SYMBOL
N.T.S.

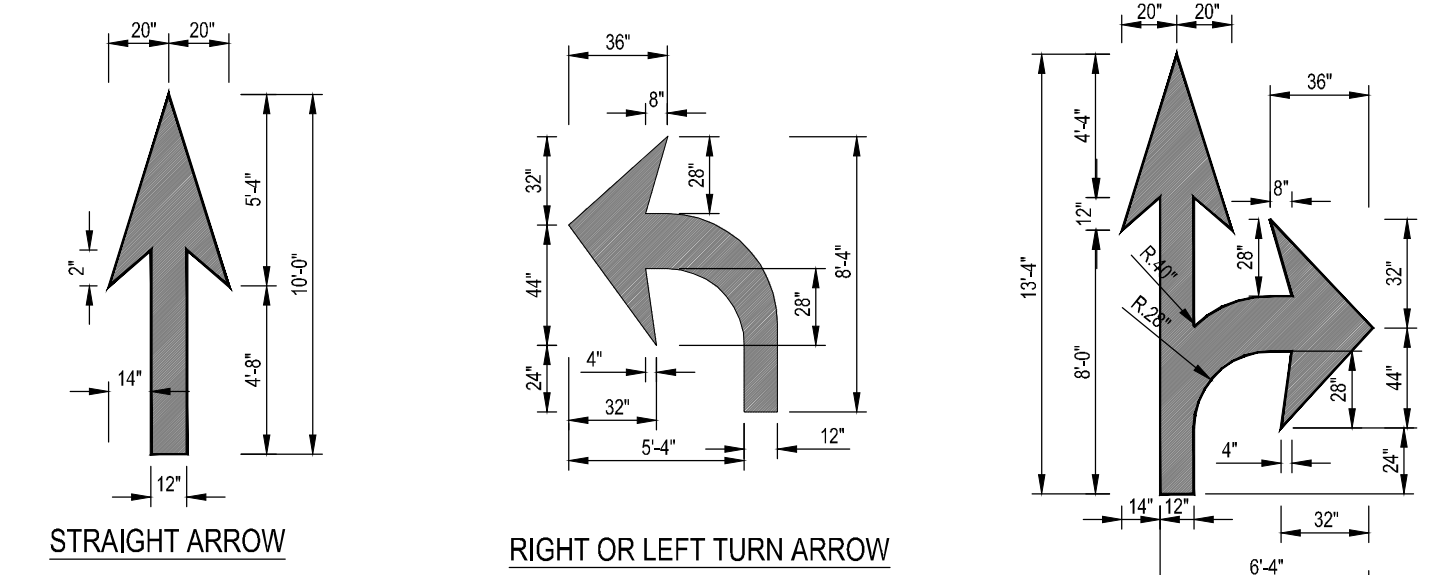


- NOTES:**
- INSTALLATION OF ALL RAMP SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.
 - USE MINIMUM 2,500 PSI CONCRETE (28 DAYS).
 - COMPACT SUBGRADE TO 95% OF MOD. PROCTOR.
 - SEE SITE PLANS FOR RAMP DIMENSIONS.
 - RAMP SURFACE SHALL HAVE A COARSE FINISH CONTRASTING TO SURROUNDING WALKWAY
 - 1/4" MAX. TRANSITION BETWEEN RAMP AND CURB.
 - WELDED WIRE MESH TO BE USED AS REINFORCEMENT
 - DETAIL SHOWN IS FOR SIDEWALK IMMEDIATELY ADJACENT TO CURB AND GUTTER.
 - CONCRETE CURB SHALL TRANSITION WITH RAMP FOR 6' MIN.

ADA RAMP-PREFERRED
N.T.S.

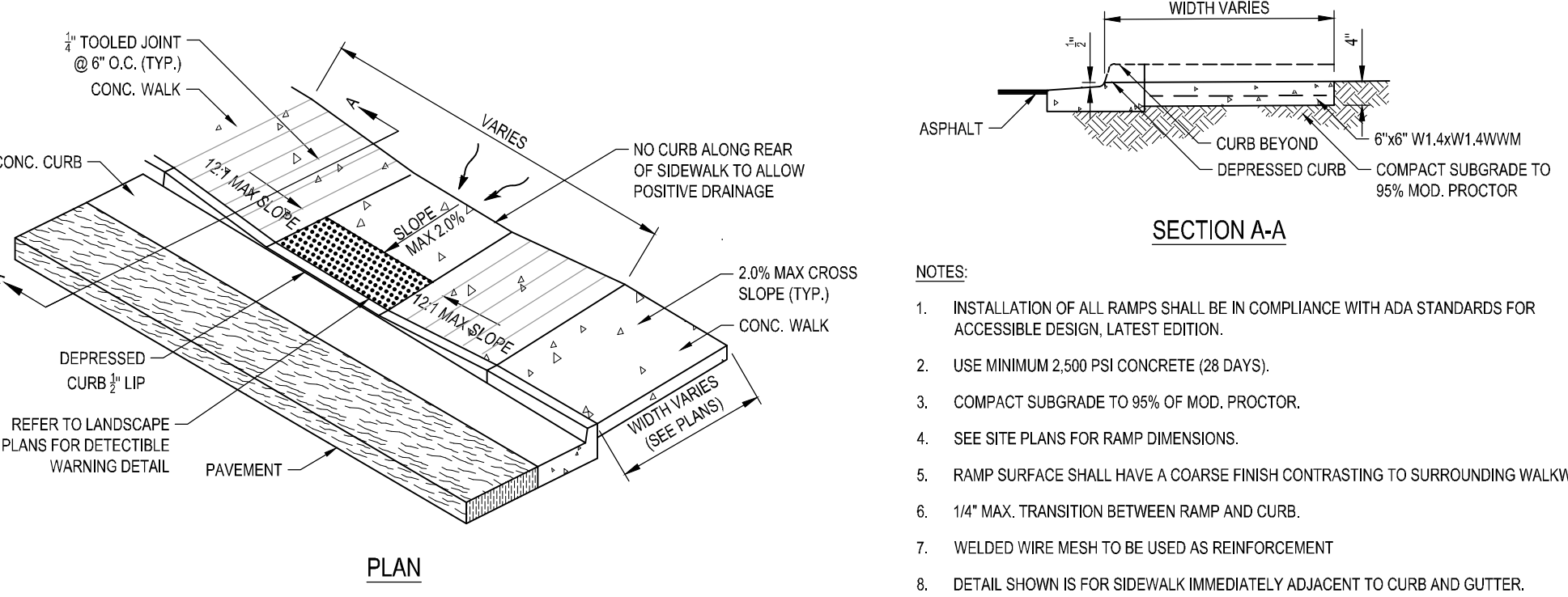


ONLY MARKING
N.T.S.



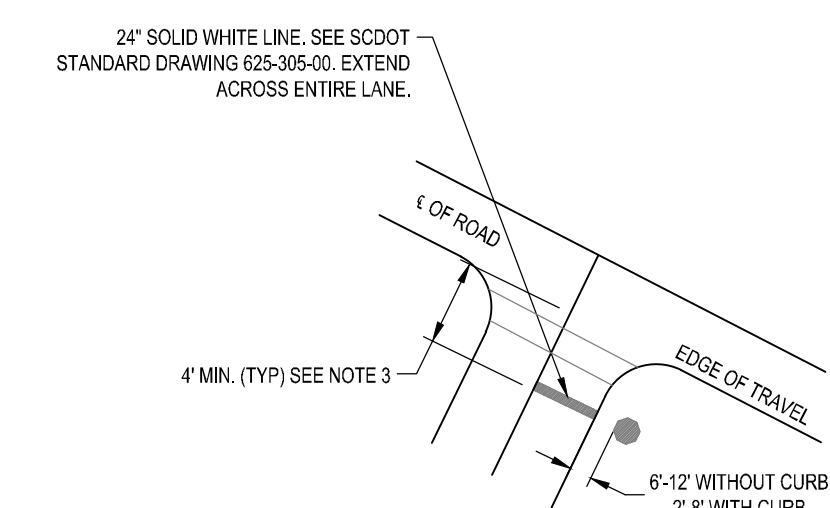
- NOTES:**
- REFER TO SCDOT STANDARD DRAWING 625-000 "PAVEMENT MARKINGS"
 - ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009 EDITION.
 - TRAFFIC FLOW ARROWS SHALL BE PAINTED WITH TWO COATS OF SOLID WHITE PAINT PER SCDOT SPECIFICATION.

TRAFFIC FLOW ARROWS
N.T.S.



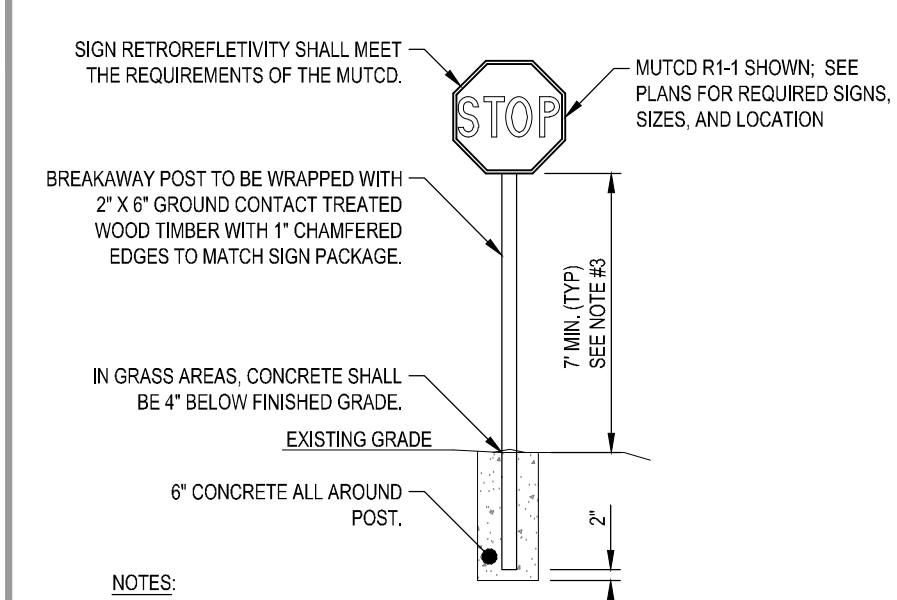
- NOTES:**
- INSTALLATION OF ALL RAMP SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.
 - USE MINIMUM 2,500 PSI CONCRETE (28 DAYS).
 - COMPACT SUBGRADE TO 95% OF MOD. PROCTOR.
 - SEE SITE PLANS FOR RAMP DIMENSIONS.
 - RAMP SURFACE SHALL HAVE A COARSE FINISH CONTRASTING TO SURROUNDING WALKWAY
 - 1/4" MAX. TRANSITION BETWEEN RAMP AND CURB.
 - WELDED WIRE MESH TO BE USED AS REINFORCEMENT
 - DETAIL SHOWN IS FOR SIDEWALK IMMEDIATELY ADJACENT TO CURB AND GUTTER.
 - CONCRETE CURB SHALL TRANSITION WITH RAMP FOR 6' MIN.

ADA RAMP
N.T.S.



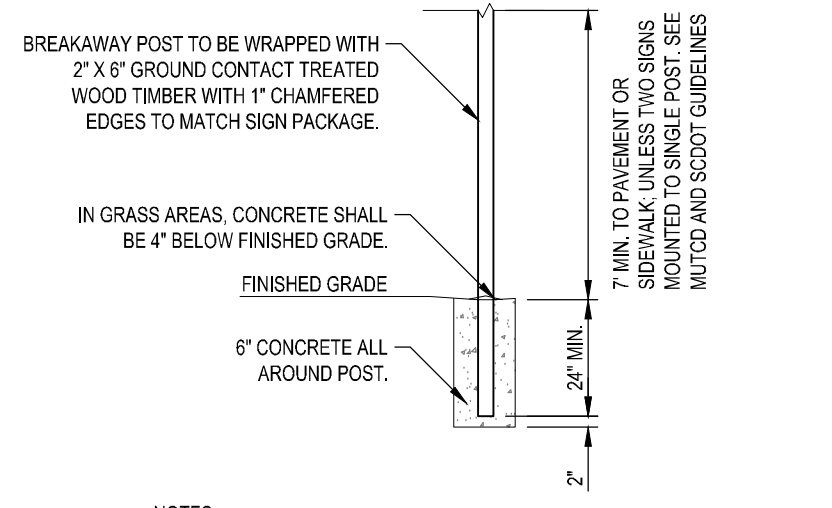
- NOTES:**
- REFER TO SCDOT STANDARD DRAWING 625-305-00 "STANDARD MARKINGS FOR INTERSECTIONS"
 - ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.
 - PLACE STOP BAR MIN. 4' IN ADVANCE OF NEAREST MARKED CROSSWALK LINE. IN THE ABSENCE OF A MARKED CROSSWALK, THE STOPLINE SHOULD BE PLACED 1' MIN. AND 30' MAX. FROM THE EDGE OF TRAVEL OF THE INTERSECTING ROUTE.

STOP BAR AND STOP SIGN PLACEMENT
N.T.S.



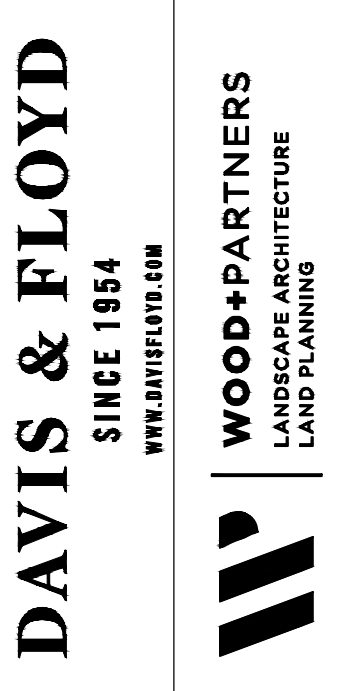
- NOTES:**
- THIS DETAIL PROVIDED AS A GENERAL GUIDE FOR THE MOUNTING AND INSTALLATION OF ALL SIGNS. SEE PLANS FOR TYPES OF SIGNS USED AND THEIR LOCATIONS. SIGNS SHALL BE PLACED AS SHOWN ON THE PLANS. SEE TYPICAL STOP SIGN PLACEMENT DETAIL.
 - ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.
 - 7' MIN. TO PAVEMENT OR SIDEWALK FOR SINGLE SIGN MOUNTED ON A POST. REFER TO MUTCD AND SCDOT GUIDELINES FOR MULTIPLE SIGNS MOUNTED ON A SINGLE POST.
 - STOP SIGNS SHALL CONFORM TO SCDOT STANDARDS.

STOP SIGN INSTALLATION
N.T.S.



- NOTES:**
- THIS DETAIL PROVIDED AS A GENERAL GUIDE FOR INSTALLATION OF ALL SIGN POSTS. SEE PLANS FOR TYPES OF SIGNS USED AND THEIR LOCATIONS. SIGNS SHALL BE PLACED AS SHOWN ON THE PLANS. SEE TYPICAL STOP SIGN PLACEMENT DETAIL.
 - ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.
 - TRAFFIC SIGNS SHALL CONFORM TO SCDOT STANDARDS.

SIGN POST INSTALLATION
N.T.S.



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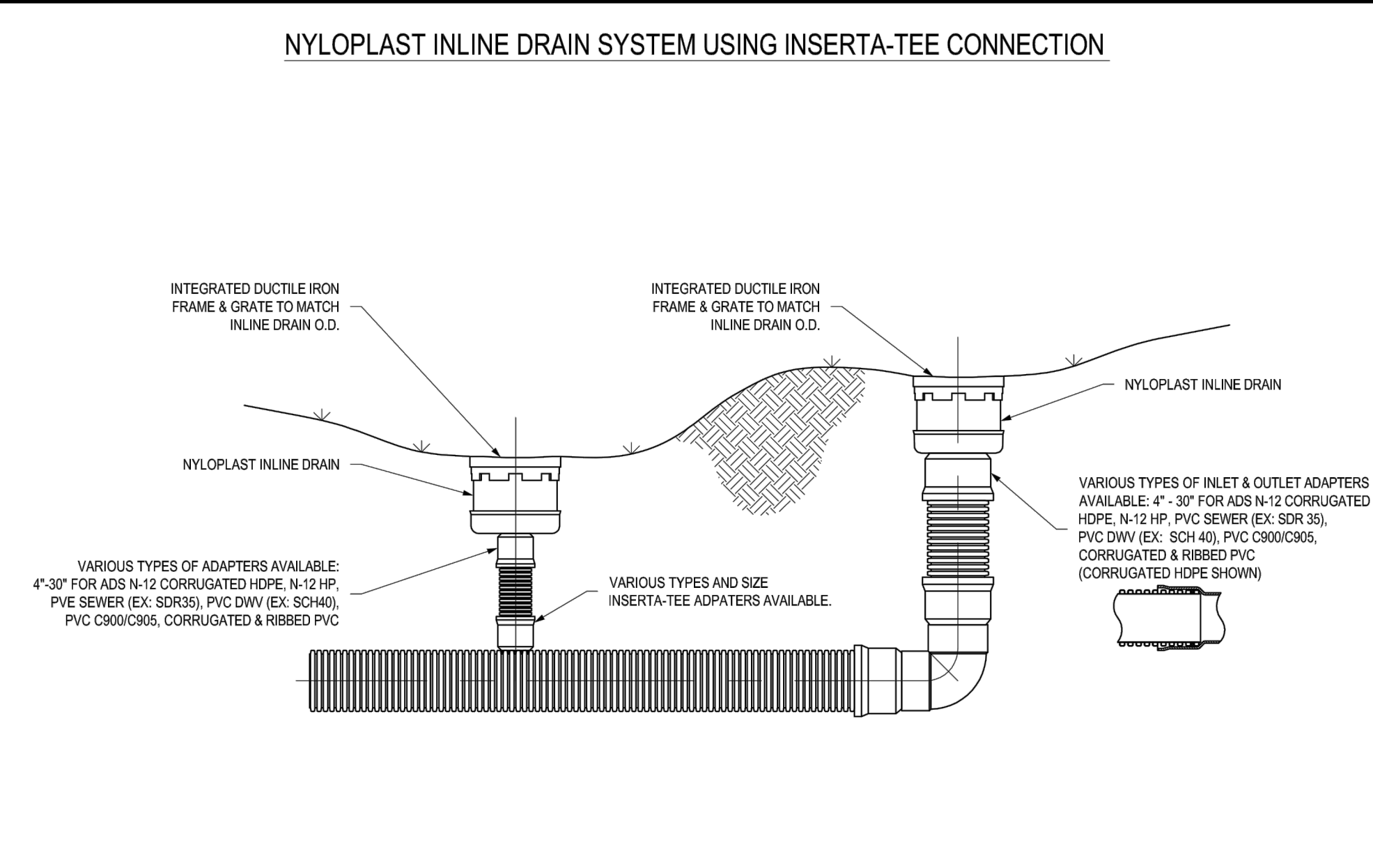
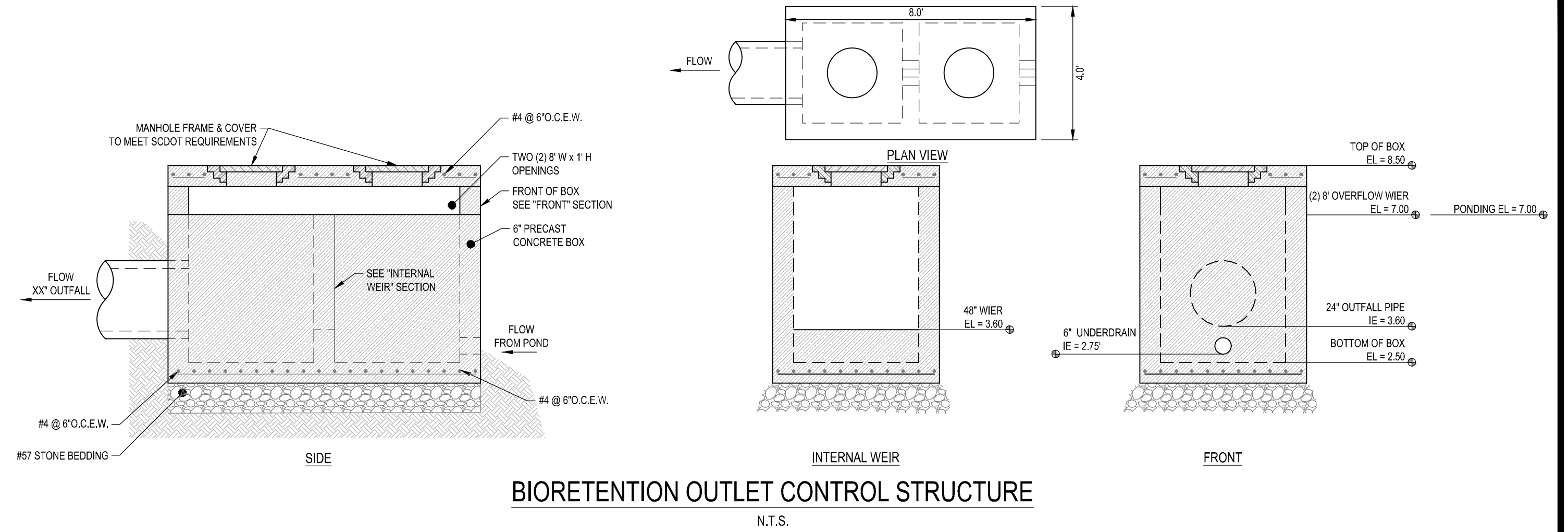
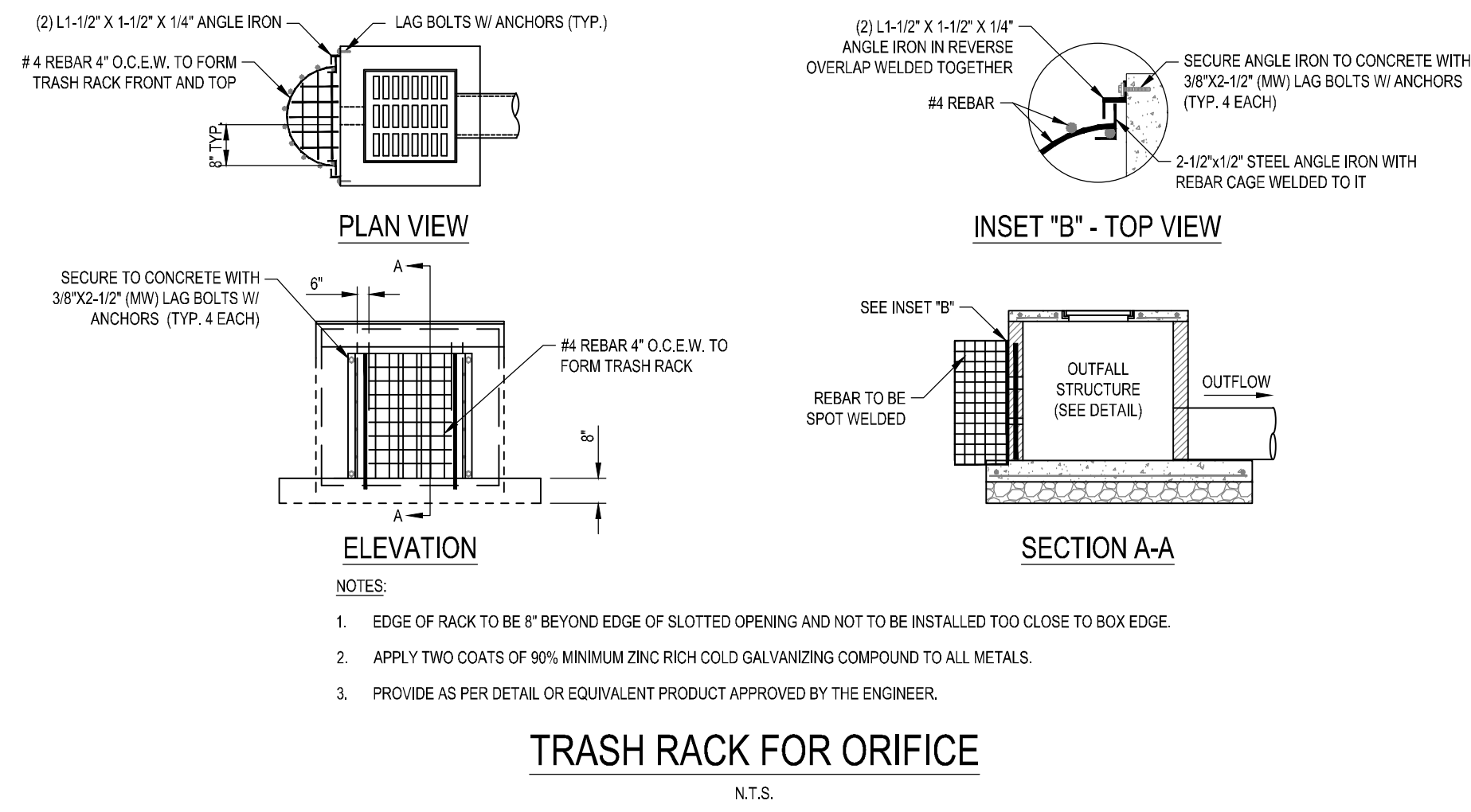
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BEAUFORT, SC 29902

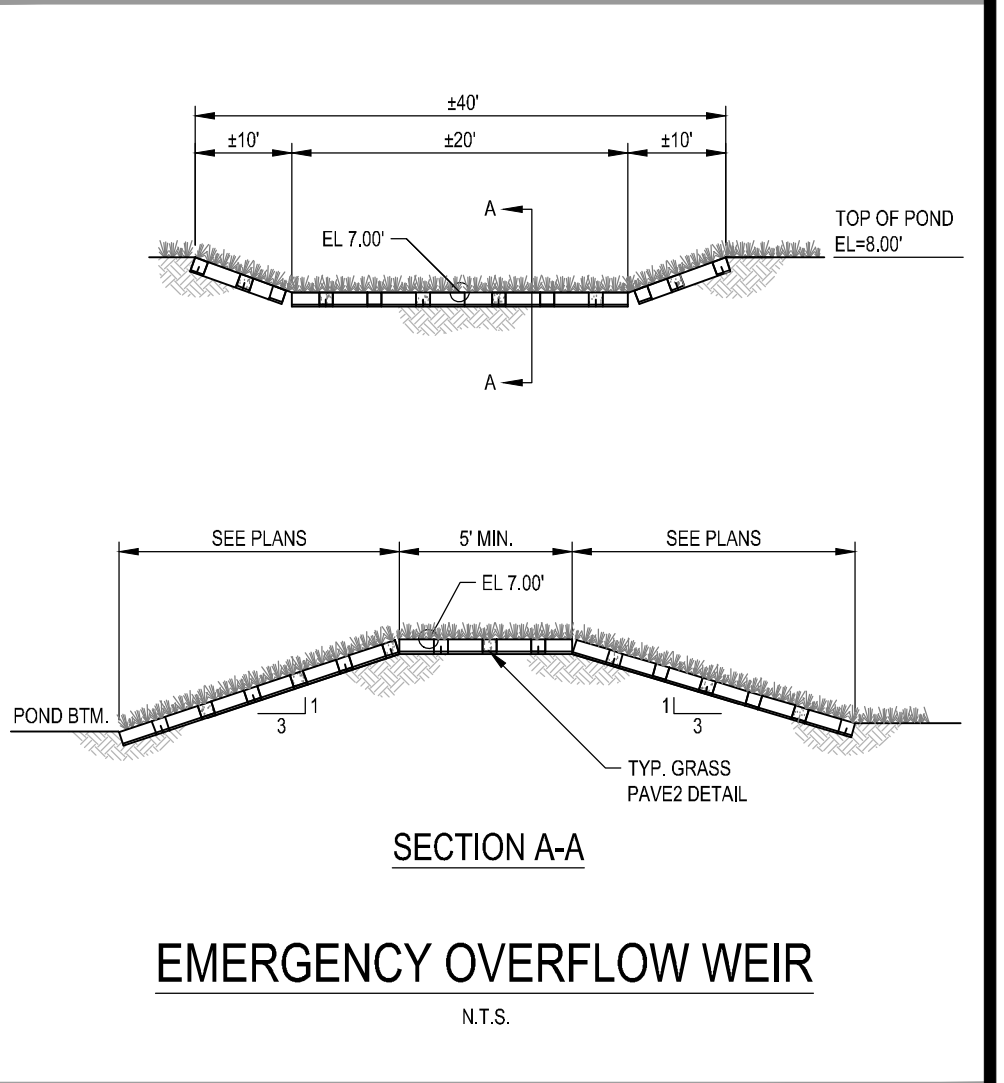
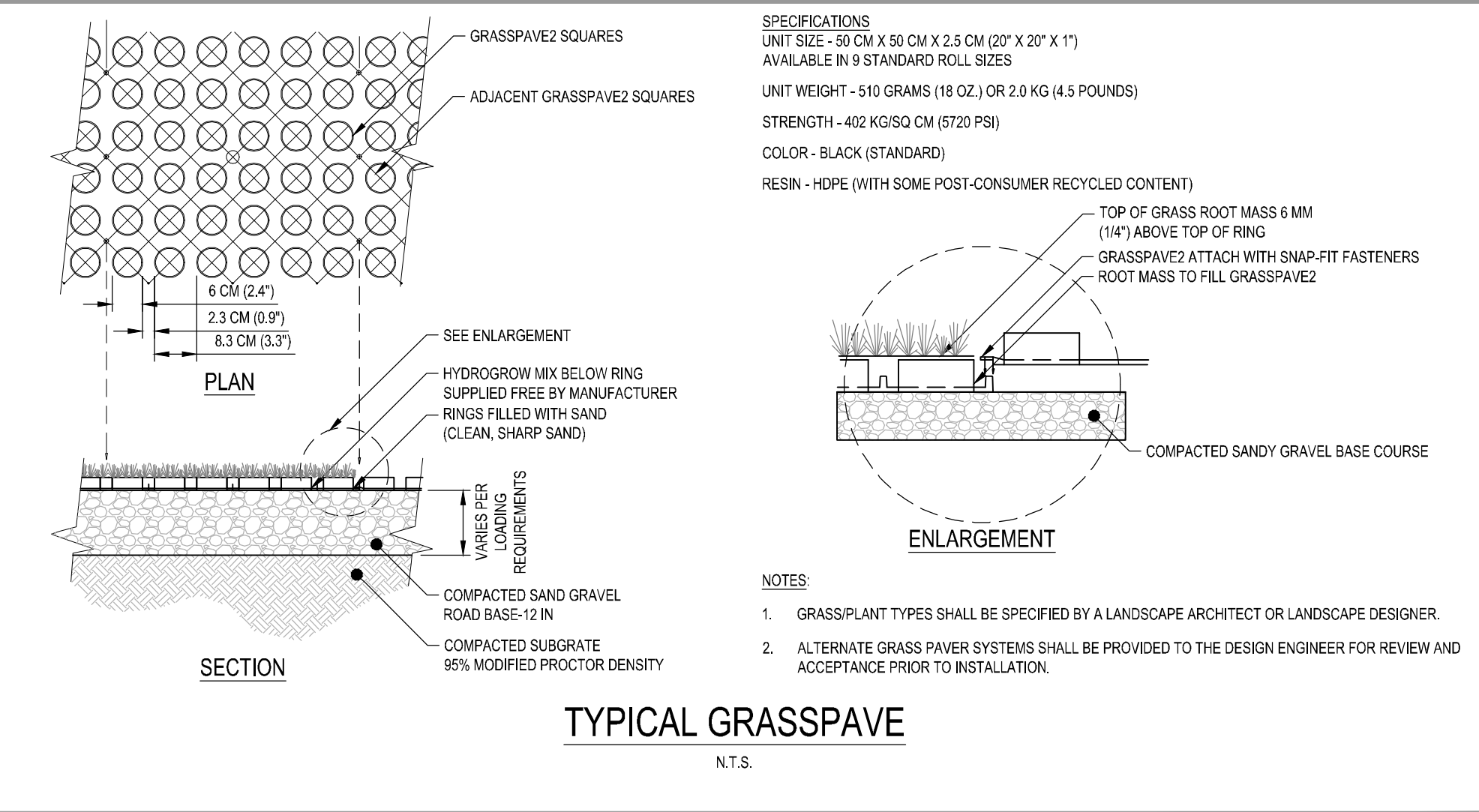
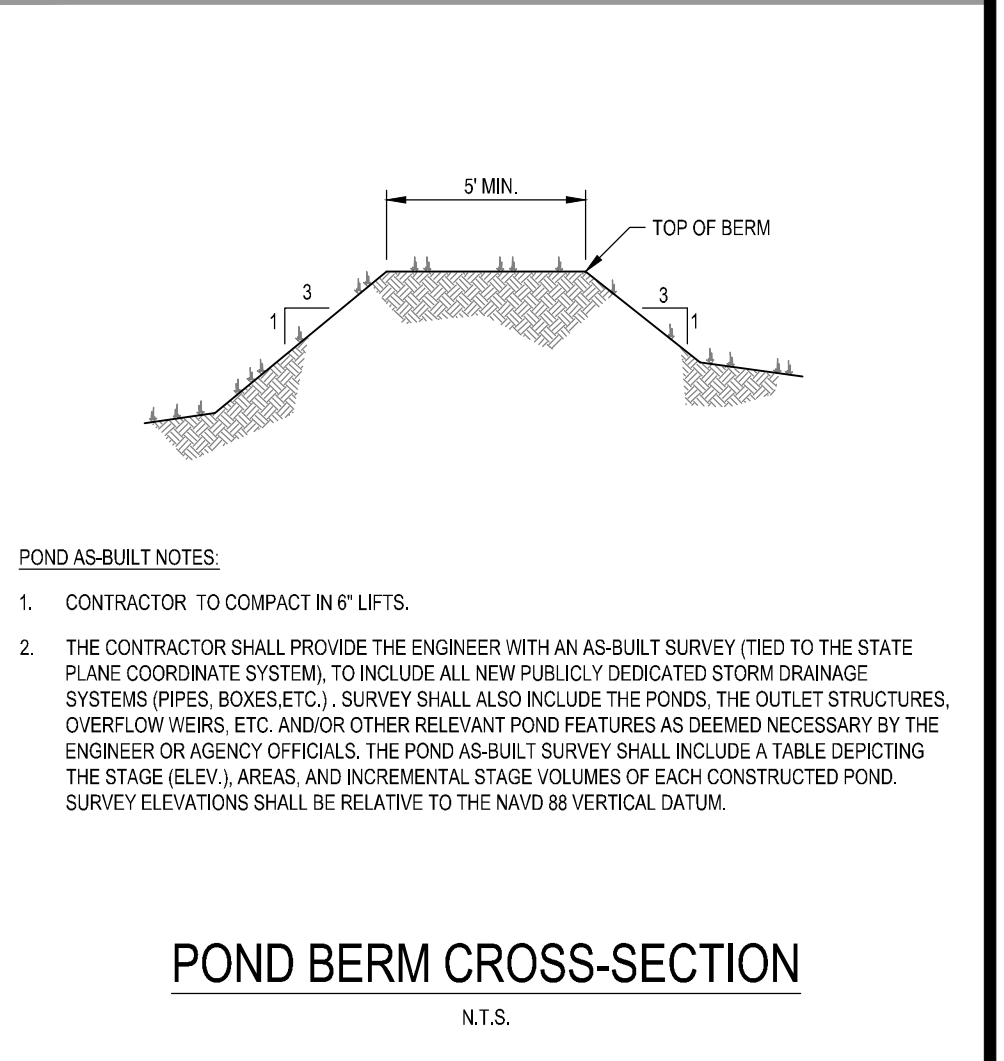
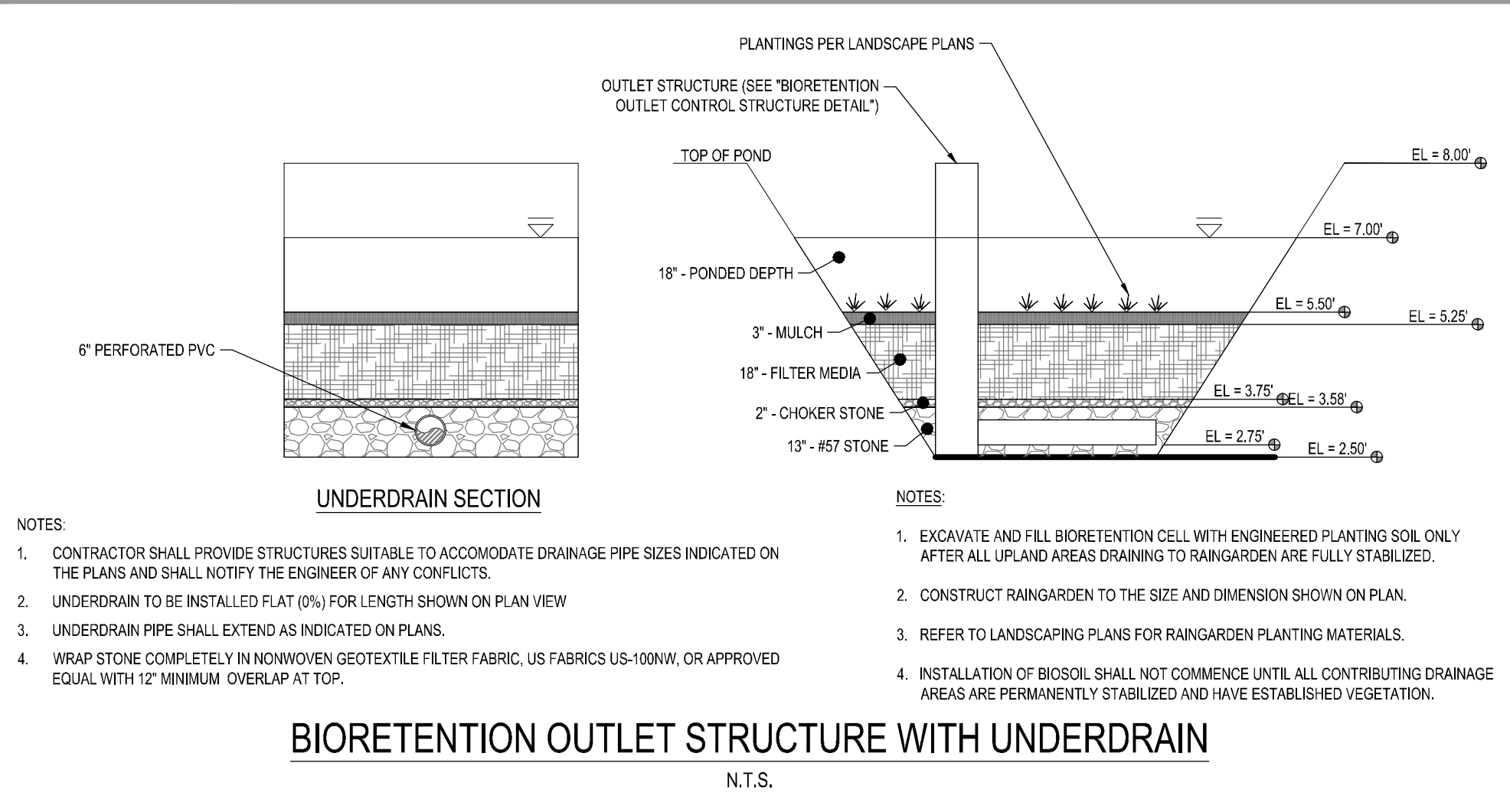
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

| NO. | DATE | DESCRIPTION | BY | CHECKED | DATE |
|-----|------------|-------------|-----|---------|------------|
| 1 | 03/20/24 | 00 | SRW | SRW | 09/10/2023 |
| 2 | 10/15/2023 | 10 | SRW | SRW | 10/10/2023 |
| 3 | | | SRW | SRW | |
| 4 | | | SRW | SRW | |
| 5 | | | SRW | SRW | |
| 6 | | | SRW | SRW | |
| 7 | | | SRW | SRW | |
| 8 | | | SRW | SRW | |
| 9 | | | SRW | SRW | |
| 10 | | | SRW | SRW | |

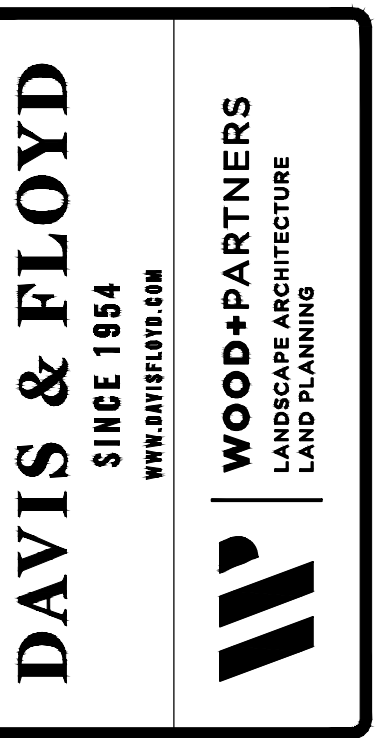
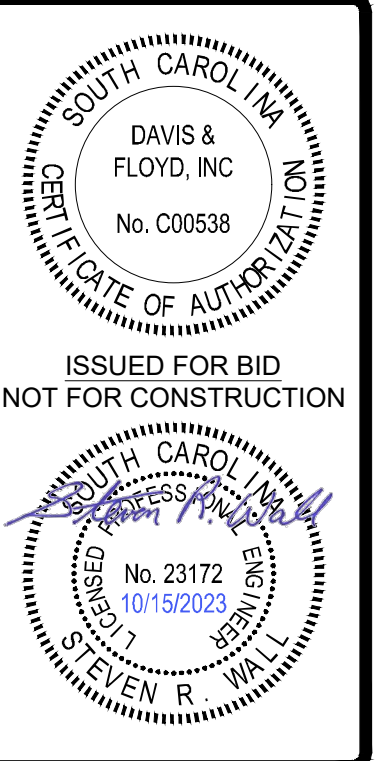
PROJECT TITLE: SOUTHSIDE PARK - PHASE I PLAYGROUND AREA IMPROVEMENTS
 SHEET TITLE: SITE DETAILS
 C821
 PAGE 25 OF 33



| | | | | |
|---|---|---|---|---|
| 1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE. | <p>THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONSTITUTE, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.</p> <p>©2022 NYLOPLAST</p> | <p>DRAWN BY: NHH</p> <p>DATE: 02-07-17</p> | <p>MATERIAL:</p> <p>PROJECT NO./NAME:</p> | <p>3100 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2400 WWW.NYLOPLAST-USA.COM</p> |
| 2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. | | <p>APPROVED BY: NHH</p> <p>DATE: 02-07-17</p> | <p>PROJECT NO./NAME:</p> | <p>TITLE: NYLOPLAST INLINE DRAIN SYSTEM USING INSERTA-TEE CONNECTION</p> |
| 3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANDCOUR DUAL WALL, N-12 HP, & PVC SEWER). | | <p>DWG NO.:</p> <p>SCALE:</p> | <p>PROJECT NO./NAME:</p> | <p>REV: A</p> |
| 4 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY. | | <p>SHEET:</p> <p>1 OF 1</p> | <p>PROJECT NO./NAME:</p> | <p>REV: A</p> |
| 5 - DIMENSIONS ARE IN INCHES. | | <p>DATE:</p> <p>02-07-17</p> | <p>PROJECT NO./NAME:</p> | <p>REV: A</p> |
| 6 - SEE DRAWING NO. 700-110-275 FOR ADS N-12 & HANDCOUR DUAL WALL BELL INFORMATION & DRAWING NO. 700-110-361 FOR N-12 HP BELL INFORMATION. | | <p>DWG NO.:</p> <p>700-110-118</p> | <p>PROJECT NO./NAME:</p> | <p>REV: A</p> |
| 7 - INSERTA-TEE ADAPTERS CREATE WATER TIGHT JOINT BETWEEN ADAPTER AND MAINLINE PIPE. | | <p>SCALE:</p> <p>1:20</p> | <p>PROJECT NO./NAME:</p> | <p>REV: A</p> |



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SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

| | | |
|-----|------------|--------------------|
| NO. | DATE | DESCRIPTION |
| 1 | 03/20/24 | ISSUED FOR BIDDING |
| 2 | 10/15/2023 | ISSUED FOR BIDDING |
| 3 | 10/15/2023 | ISSUED FOR BIDDING |
| 4 | 10/15/2023 | ISSUED FOR BIDDING |
| 5 | 10/15/2023 | ISSUED FOR BIDDING |
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| 50 | 10/15/2023 | ISSUED FOR BIDDING |

SCDOT DRAINAGE STRUCTURES REFERENCE

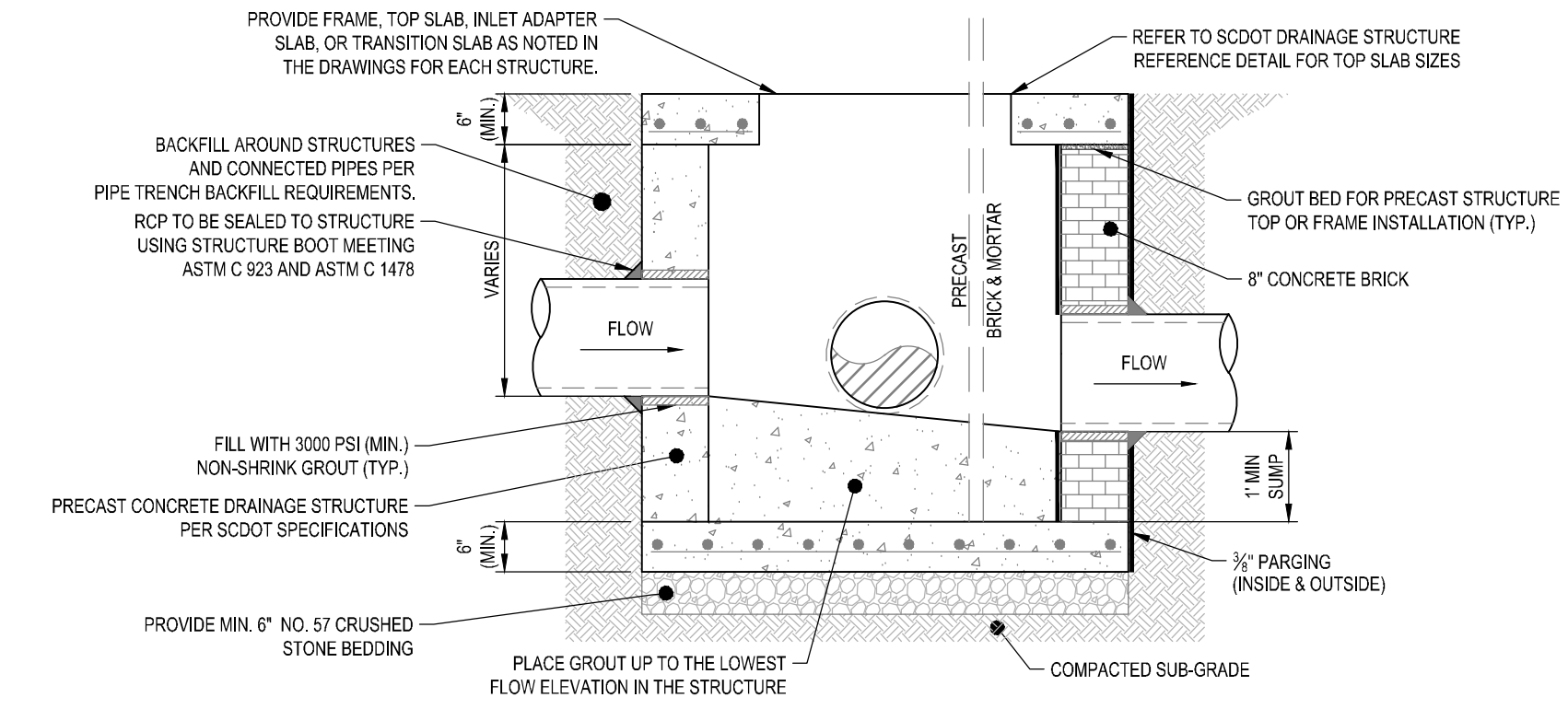
| PLAN CALL-OUT | SCDOT DESIGNATION | SCDOT STANDARD DRAWING(S) | REFERENCE SCDOT STANDARD DRAWING(S) |
|-----------------------|--------------------------|---|--|
| CATCH BASINS | | | |
| SCDOT TYPE 1 | CATCH BASIN TYPE 1 | 719-001-01 TO 719-001-05 | 719-305-00, 719-310-00, 719-550-00 |
| SCDOT TYPE 9 | CATCH BASIN TYPE 9 & 9MH | 719-009-01 TO 719-009-04 & 719-009-R14 | 719-305-00, 719-310-00, 719-420-00 & 719-550-00 |
| SCDOT TYPE 15 | CATCH BASIN TYPE 15 | 719-015-01 TO 719-015-02 | 719-305-00, 719-310-00, 719-425-00 & 719-550-00 |
| SCDOT TYPE 16 | CATCH BASIN TYPE 16 | 719-016-01 TO 719-016-02 | 719-305-00, 719-310-00, 719-420-00 & 719-550-00 |
| SCDOT TYPE 17 | CATCH BASIN TYPE 17 | 719-017-01 TO 719-017-02 & 719-017-R5, 719-017-R6 | 719-305-00, 719-310-00, 719-420-00 & 719-550-00 |
| SCDOT TYPE 18 | CATCH BASIN TYPE 18 | 719-018-01 TO 719-018-02 & 719-018-R7, 719-018-R8 | 719-305-00, 719-310-00, 719-420-00 & 719-550-00 |
| DROP INLETS | | | |
| PLAN CALL-OUT | SCDOT DESIGNATION | SCDOT STANDARD DRAWING(S) | REFERENCE SCDOT STANDARD DRAWING(S) |
| 24x24 GRATE INLET | DROP INLET 24x24 | 719-105-01 TO 719-105-02 | 719-001-04, 719-009-04, 719-110-01, 719-110-02, 719-305-00, 719-310-00, 719-315-00, 719-330-02, 719-420-00, 719-425-00, 719-505-03, 719-550-00 |
| 24x36 GRATE INLET | DROP INLET 24x36 | 719-110-01 TO 719-110-02 | 719-001-04, 719-009-04, 719-110-01, 719-110-02, 719-305-00, 719-310-00, 719-315-00, 719-330-02, 719-420-00, 719-425-00, 719-505-03, 719-550-00 |
| DROP INLET TYPE 112 | DROP INLET TYPE 112 | 719-112-01 TO 719-112-02 | 719-012-02, 719-305-00, 719-310-00, 719-420-00, 719-425-00, 719-505-03, 719-550-00 |
| DROP INLET TYPE 115 | DROP INLET TYPE 115 | 719-115-00 | 719-015-02, 719-305-00, 719-310-00, 719-420-00 |
| JUNCTION BOXES | | | |
| PLAN CALL-OUT | SCDOT DESIGNATION | SCDOT STANDARD DRAWING(S) | REFERENCE SCDOT STANDARD DRAWING(S) |
| JUNCTION BOX | DRAINAGE ACCESS MANHOLE | 719-505-01 TO 719-505-04 | 719-001-04, 719-009-04, 719-110-01, 719-110-02, 719-305-00, 719-310-00, 719-315-00, 719-330-02, 719-420-00, 719-425-00, 719-505-03, 719-550-00 |

NOTES:

- STRUCTURES SHALL BE BASED UPON CURRENT SCDOT STANDARD DRAWINGS AT TIME OF CONSTRUCTION.
- BUILT-IN-PLACE STRUCTURES SHALL HAVE 1/2" PARING ALL AROUND THE EXTERIOR OF THE STRUCTURE.
- PRE-CAST STRUCTURES SHALL BE SUPPLIED WITH A MINIMUM OF 8" WALL THICKNESS.
- BUILT-IN-PLACE STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM WALL THICKNESS OF 8".
- DRAINAGE STRUCTURES SHALL BE BEDDED ON 6" (MIN.) OF CLEAN NO. 57 STONE.

SCDOT DRAINAGE STRUCTURE REFERENCES

N.T.S.

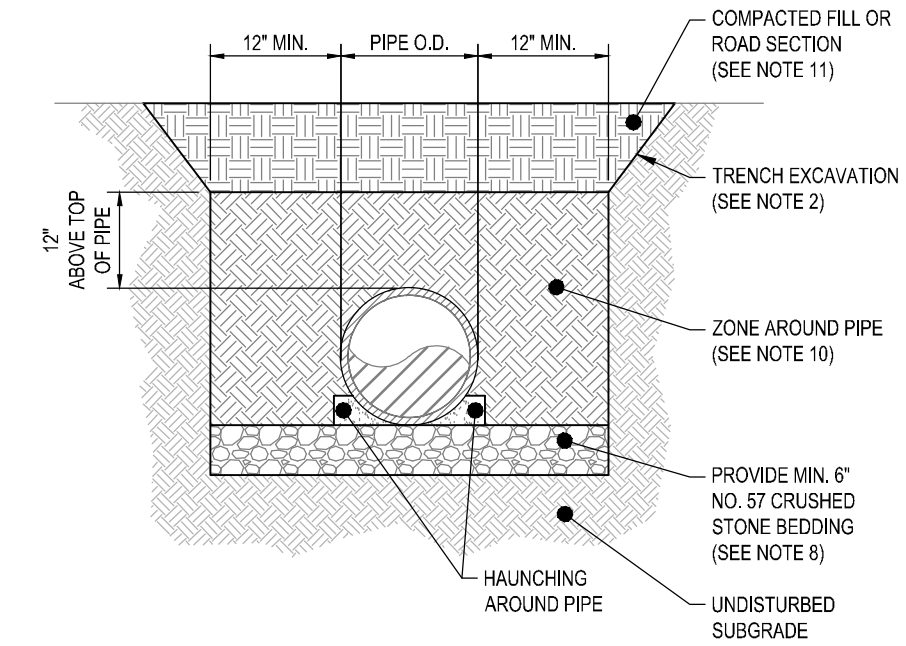


NOTES:

- SCDOT MATERIALS AND CONSTRUCTION TYP. NOTE.
- CONTRACTOR SHALL PROVIDE STRUCTURES SUITABLE TO ACCOMMODATE DRAINAGE PIPE SIZES INDICATED ON THE PLANS AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS.
- ALL MANHOLE LIDS AND CATCH BASINS SHALL CONTAIN A LABEL IDENTIFYING THE SYSTEM AS STORMWATER AND MARKED WITH AN APPROPRIATE STORMWATER AWARENESS MESSAGE SUCH AS "NO DUMPING - DRAINS TO WATERWAYS"
- WHEN LOCATING DRAINAGE STRUCTURES THAT ARE IN CONTACT WITH UTILITIES, FOUNDATIONS, RETAINING WALL COMPONENTS, GUARDRAIL POSTS, OR OTHER SUBSURFACE STRUCTURES, NOTIFY THE ENGINEER BEFORE RELOCATING EITHER CONFLICTING PART.
- USE ONLY NON-SHRINK GROUT.
- USE AT LEAST 8" THICK PRECAST WALLS, OR 8" THICK BRICK MASONRY WALLS.
- USE NO MORE THAN ONE TRANSITION SLAB AND ONE INLET ADAPTER SLAB IN A SINGLE STRUCTURE.
- WHEN WITHIN THE PEDESTRIAN ACCESS ROUTE (SIDEWALKS, CROSSWALKS, ACCESSIBLE PARKING, ETC.) USE ONLY DRAINAGE SYSTEMS DESIGNATED AS ADA COMPLIANT.
- LOCATE BICYCLE RATED GRATES OUTSIDE OF THE PEDESTRIAN ACCESS ROUTE. SET BICYCLE RATED GRATES FLUSH TO WITHIN +0" TO -1/4" OF ADJACENT PAVEMENT GRADE OR FLUSH TO WITHIN +0" TO -1" OF ADJACENT SOILS FOR NON-PAVED LOCATIONS.
- IN ADDITION TO STANDARD FOUNDARY MARKINGS, MARK ALL PIECES WITH "DRAINS TO WATERWAY", WHERE SPACE PERMITS.
- WHEN THE PROJECT PLANS SPECIFY IMPROVED FOUNDATION FOR PIPE, EXTEND THIS UNDERCUT AND IMPROVED PROCEDURE THROUGH AND UNDER THE FOOTPRINT OF THE BASE SLAB OF THE DRAINAGE STRUCTURE.
- USE THE SAME FOUNDATION AND BEDDING DETAIL ESTABLISHED FOR THE PIPE CULVERTS (SEE SCDOT STANDARD DRAWING SECTION 714).
- PROJECT PIPE THROUGH THE INSIDE FACE OF THE BOX. 1" TO (-1" - 1/4") BEYOND THE INSIDE FACE WHEN MEASURED AT THE SPRINGLINE OF THE PIPE.
- SKewed PIPE MAY BE REQUIRED TO EXTEND FURTHER INTO PIPE TO FACILITATE THE FLUSH OUT.
- FULLY GROUT THE PERIMETER OF THE PIPE TO FILL THE BOX WALL OPENING.
- ON THE INSIDE FACE OF THE BOX, BEVEL THE GROUT THE FULL AMOUNT OF EACH PIPE PROJECTION AND TO FULLY COVER THE BOX WALL OPENING WITH 1" OVERLAP. ON THE OUTSIDE FACE OF THE BOX, PACK GROUT UNDER THE PIPE TO FILL ANY GAPS IN THE PIPE BEDDING FOUNDATION DIRECTLY AT THE BOX AND BEVEL GROUT AROUND THE PERIMETER OF THE PIPE TO FULLY COVER THE BOX WALL OPENING WITH 1" OVERLAP.
- GROUT OR MORTAR THE ENTIRE FLOOR OF THE BOX UP TO THE INVERT ELEVATION OF THE LOWEST OUTLET PIPE.
- CONSTRUCT KEYS OR LAPPED JOINTS FOR ALL PRECAST SILD WALL BOX AND RISER SECTIONS EXCEPT WHEN JOINT ATTACHES TO A FLAT ADAPTER SLAB.
- GROUT THE INTERFACE BETWEEN THE BOX/RISERS AND THE SLAB WITH A 1/2" LIFT OF NON-SHRINK GROUT.
- FOR CAST OR STEEL FRAMES PLACED DIRECTLY ON BRICK OR CONCRETE, USE EITHER A NON-SHRINK GROUT LIFT OR A PREFABRICATED RISER/GASKET SPECIFICALLY MADE FOR THIS INTERFACE.
- COMPLETELY REMOVE LIFTING DEVICES FROM TOP SLABS, AND CLOSE ANY RECESSES OR LIFT HOLE IN SLABS THAT FORM THE SIDEWALK SURFACE WITH GROUT.
- USE PIPE SELECT BACKFILL AND COMPACTION METHOD DESCRIBED IN SC-M-7.14 FOR SOIL AROUND THE ENTIRE PERIMETER OF THE BOX WITHIN EACH PIPE EMBEDMENT ZONE AND THE TRENCH EXCAVATION CREATED TO INSTALL THE BOX AND PIPES.
- WHERE REQUIRED, HAND FORM THROATED INLETS AND CONCRETE APRONS.
- WHERE PRECAST COMPONENTS SERVE AS SIDEWALK SURFACE, SET ELEVATION TO MATCH SIDEWALK GROSS SLOPE AND PROFILE WITH NO MORE THAN 1/8" GRADE DIFFERENCE.
- WHERE PRECAST COMPONENTS INTERFACE ROADWAY PAVEMENTS, SET ELEVATION OF THE SLAB TO WITHIN 1/4" OF FINISHED GRADE ELEVATION.

TYPICAL DRAINAGE STRUCTURE

N.T.S.



NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, UNLESS NOTED OTHERWISE.
- ALL INSTALLATIONS SHALL BE PERFORMED IN ACCORDANCE WITH PIPE MANUFACTURERS' RECOMMENDATION.
- PROTECT EXISTING STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER FACILITIES FROM DAMAGES CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CAUSED BY TRENCHING OPERATIONS.
- SLOPE, BENCH, BRACE, SHORE, OR SHIELD ALL TRENCH EXCAVATIONS IN ACCORDANCE WITH OSHA CONSTRUCTION STANDARDS FOR EXCAVATION.
- PROVIDE PUMPING AND DRAINAGE FACILITIES ADEQUATE TO KEEP THE EXCAVATED AREA SUFFICIENTLY DRY FROM GROUNDWATER AND SURFACE RUNOFF DURING CONSTRUCTION.
- FINE GRADE THE BOTTOM OF TRENCH TO ALLOW FIRM BEARING OF THE BOTTOM OF THE PIPE. PROVIDE BELL HOLES AT EACH JOINT LOCATION.
- WRAP ALL PIPE JOINTS WITH MIN. 6 OZ/SY NON-WOVEN FILTER FABRIC, US 1609W OR EQUIVALENT.
- PROVIDE CRUSHED STONE OR GRAVEL BEDDING MEETING ASTM C 33, GRADATION 57 (NO. 57), UNDERCUT UNSUITABLE SOILS IN TRENCH BOTTOMS AND PROVIDE ADDITIONAL UNITS OF STONE BEDDING AS DIRECTED BY THE ENGINEER.
- BACKFILL TRENCH WITH SUITABLE NATIVE MATERIALS WITH NO FRAGMENTS LARGER THAN 2 INCHES IN GREATEST DIMENSION. BACKFILL UP TO A LEVEL OF 2 FEET OVER TOP OF THE PIPE. SHALL CONTAIN NO ROCK, CLODS, OR ORGANIC MATERIALS.
- BACKFILL IN ZONE AROUND PIPE TO BE PLACED IN 8" LIFTS AND COMPACTED TO 100% STANDARD PROCTOR MAX. DENSITY (TEST METHOD C. ASTM D698), OR AS DIRECTED BY GEOTECHNICAL ENGINEER. COMPACT THOROUGHLY UNDER PIPE HAUNCHES AND TAMP UNIFORMLY TO PREVENT LATERAL DISPLACEMENT OF THE PIPE.
- REMAINING BACKFILL ABOVE PIPE ZONE SHALL BE COMPACTED TO 92% MAX. DENSITY IN UNPAVED AREAS, OR 95% MAX. DENSITY IN PAVED AREAS, UNLESS NOTED OTHERWISE.

RCP TRENCH

N.T.S.

HP STORM TRENCH INSTALLATION DETAIL

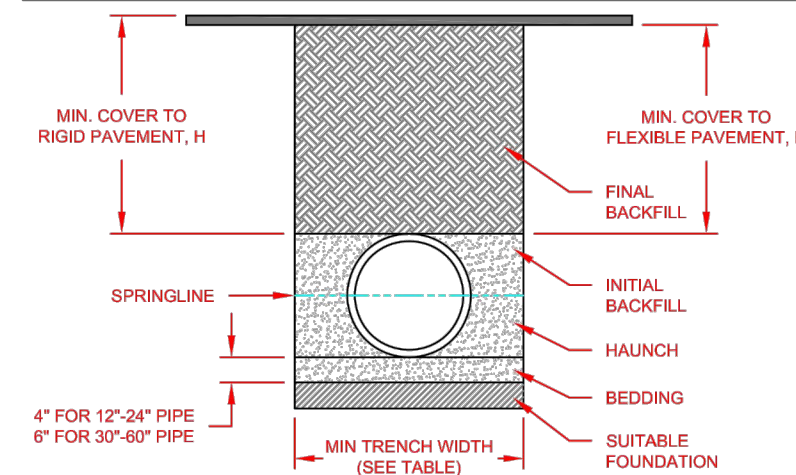


TABLE 1. RECOMMENDED MINIMUM TRENCH WIDTHS

| PIPE DIAM. | MIN. TRENCH WIDTH |
|--------------|-------------------|
| 12" (305mm) | 24" (762mm) |
| 15" (375mm) | 30" (914mm) |
| 18" (457mm) | 36" (914mm) |
| 24" (609mm) | 48" (1219mm) |
| 30" (762mm) | 60" (1524mm) |
| 36" (914mm) | 72" (1829mm) |
| 42" (1067mm) | 84" (2134mm) |
| 48" (1220mm) | 96" (2438mm) |

TABLE 2. MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

| PIPE DIAM. | SURFACE LIVE LOADING CONDITION | |
|----------------------------|--------------------------------|--------------------------------------|
| | H-20 | HEAVY CONSTRUCTION (FIRST AXLE LOAD) |
| 12" - 48" (305mm - 1220mm) | 12" (305mm) | 48" (1219mm) |
| 60" (1524mm) | 24" (609mm) | 60" (1524mm) |

VEHICLES IN EXCESS OF 70 TONS MAY REQUIRE ADDITIONAL COVER

| PIPE DIA. | CLASS I | | CLASS II | | CLASS III | | CLASS IV | |
|--------------|-----------|-----|----------|-----|-----------|-----|----------|--|
| | COMPACTED | 90% | 90% | 90% | 90% | 90% | 90% | |
| 12" (305mm) | 41 | 28 | 21 | 16 | 20 | 16 | 16 | |
| 15" (375mm) | 42 | 29 | 21 | 16 | 21 | 16 | 16 | |
| 18" (457mm) | 44 | 30 | 21 | 16 | 22 | 17 | 16 | |
| 24" (609mm) | 37 | 26 | 18 | 14 | 19 | 14 | 14 | |
| 30" (762mm) | 39 | 27 | 19 | 14 | 19 | 15 | 14 | |
| 36" (914mm) | 28 | 20 | 14 | 10 | 14 | 11 | 10 | |
| 42" (1067mm) | 29 | 20 | 14 | 10 | 14 | 11 | 10 | |
| 48" (1220mm) | 29 | 20 | 14 | 10 | 14 | 11 | 10 | |
| 60" (1524mm) | 28 | 20 | 14 | 10 | 14 | 11 | 10 | |

NO HYDROSTATIC PRESSURE

UNIT WEIGHT OF SOIL (W_s) = 120 PCF

REV. MAXIMUM COVER HEIGHTS

REV. DESCRIPTION

REV. DATE

REV. BY

REV. CHKD

REV. DATE

REV. BY

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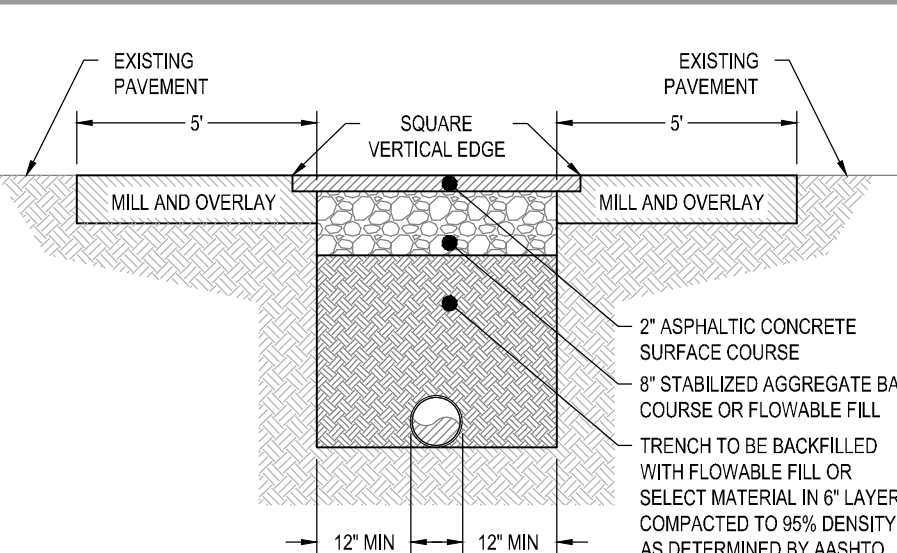
REV. BY

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REV. DATE

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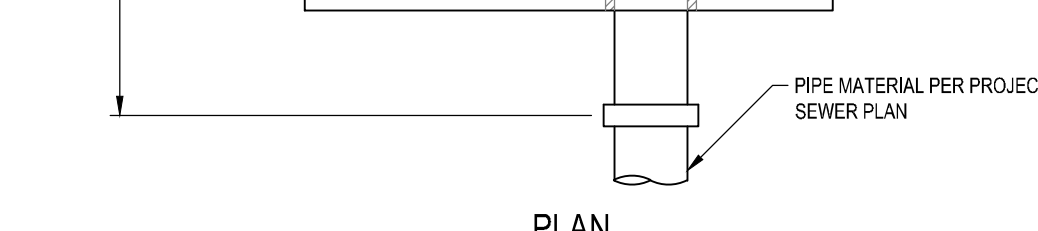
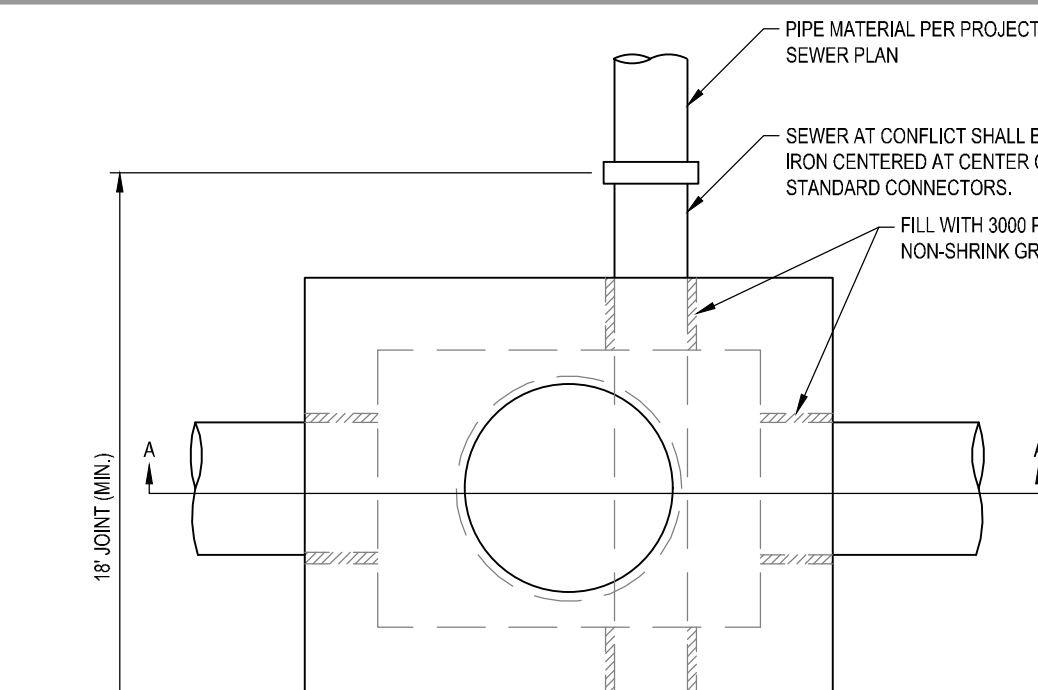


NOTES:

- FINAL MILL AND OVERLAY SHALL BE 5' ON EACH SIDE OF ROAD CUT AND EXTEND THE FULL LANE WIDTH.
- IF CUT ENCLOSES ON MORE THAN ONE LANE, THEN FINAL MILL AND OVERLAY WILL EXTEND THE FULL WIDTH OF SECOND LANE.
- IF ROAD CUT IS AN INTERSECTION, THE ENTIRE INTERSECTION SHALL BE MILLED AND OVERLAD, RADIIUS TO RADIIUS.

OPEN CUT REPAIR FOR LOW VOLUME ASPHALT PAVEMENT

N.T.S.



SECTION A-A

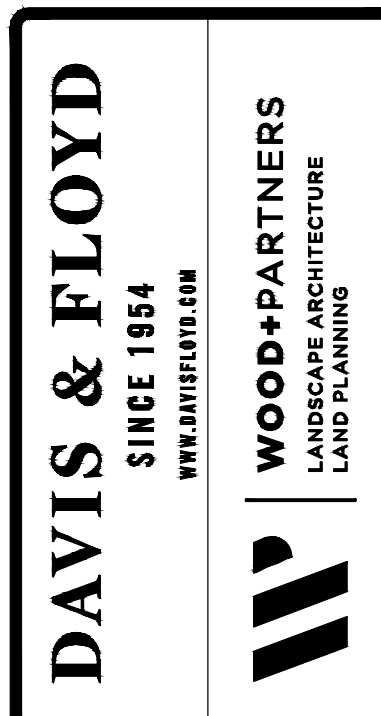
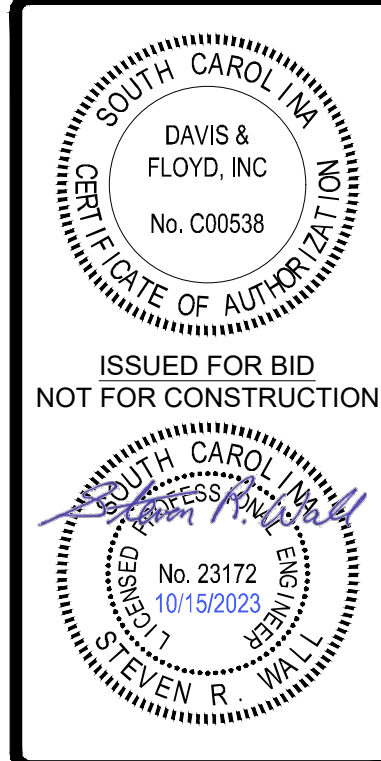
N.T.S.

SEWER CONFLICT BOX - SHALLOW

N.T.S.

NOTES:

- CONSTRUCT SANITARY SEWER CONFLICT STRUCTURES AS INDICATED ON THE PLANS. DETAIL CAN BE APPLIED TO ALL TYPES OF DRAINAGE STRUCTURES.
- CONTRACTOR SHALL PROVIDE STRUCTURES SUITABLE TO ACCOMMODATE DRAINAGE PIPE SIZES INDICATED ON THE PLANS AND SHALL NOTIFY ENGINEER OF ANY CONFLICTS.
- ALL MANHOLE LIDS AND CATCH BASINS SHALL CONTAIN A LABEL IDENTIFYING THE SYSTEM AS STORMWATER AND MARKED WITH AN APPROPRIATE STORMWATER AWARENESS MESSAGE SUCH AS "NO DUMPING - DRAINS TO WATERWAYS"



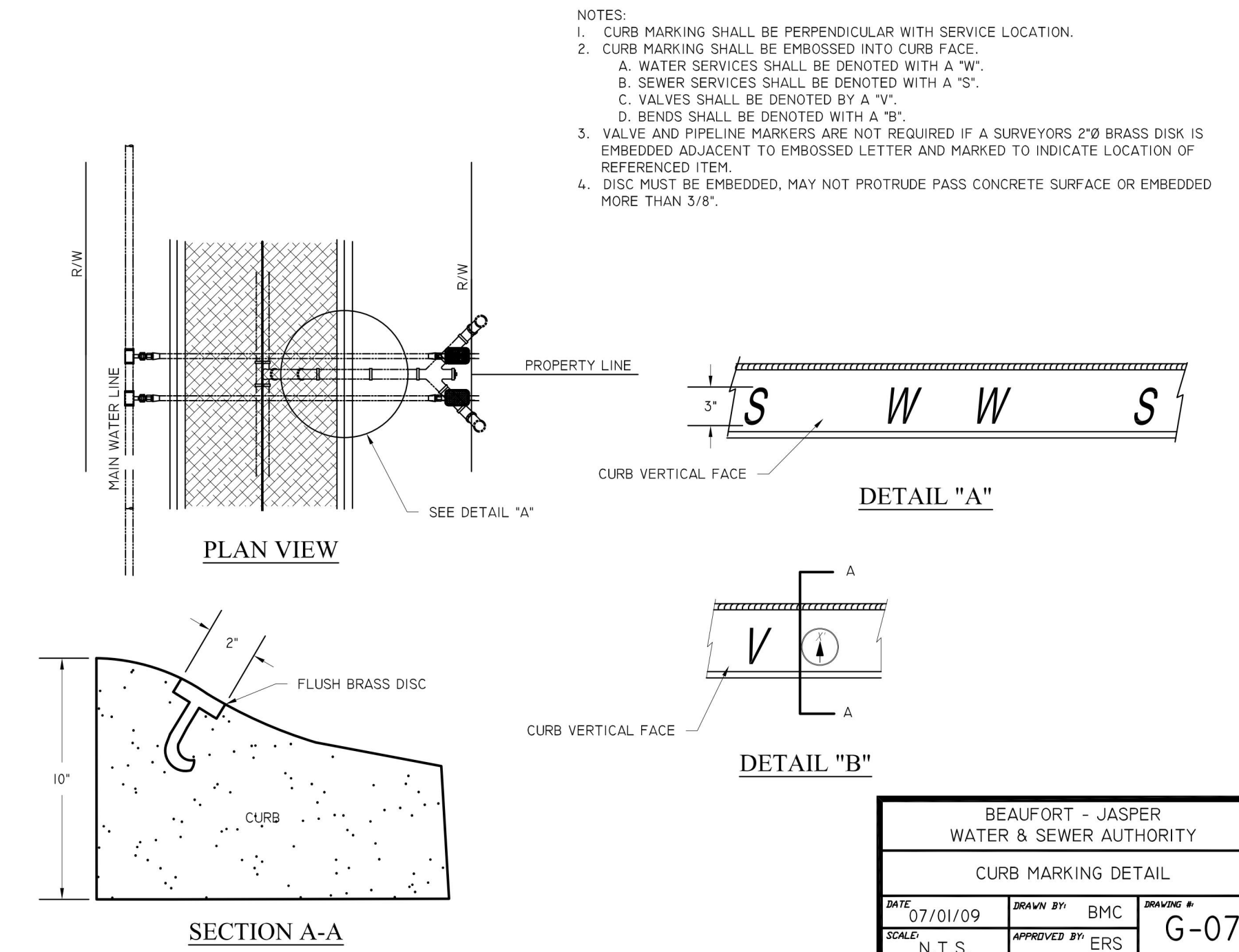
DAVIS & FLOYD
SINCE 1954
WWW.DAVISANDFLOYD.COM

WOOD+PARTNERS
LANDSCAPE ARCHITECTURE
LAND PLANNING

CITY OF BEAUFORT
BEAUFORT, SC 29902

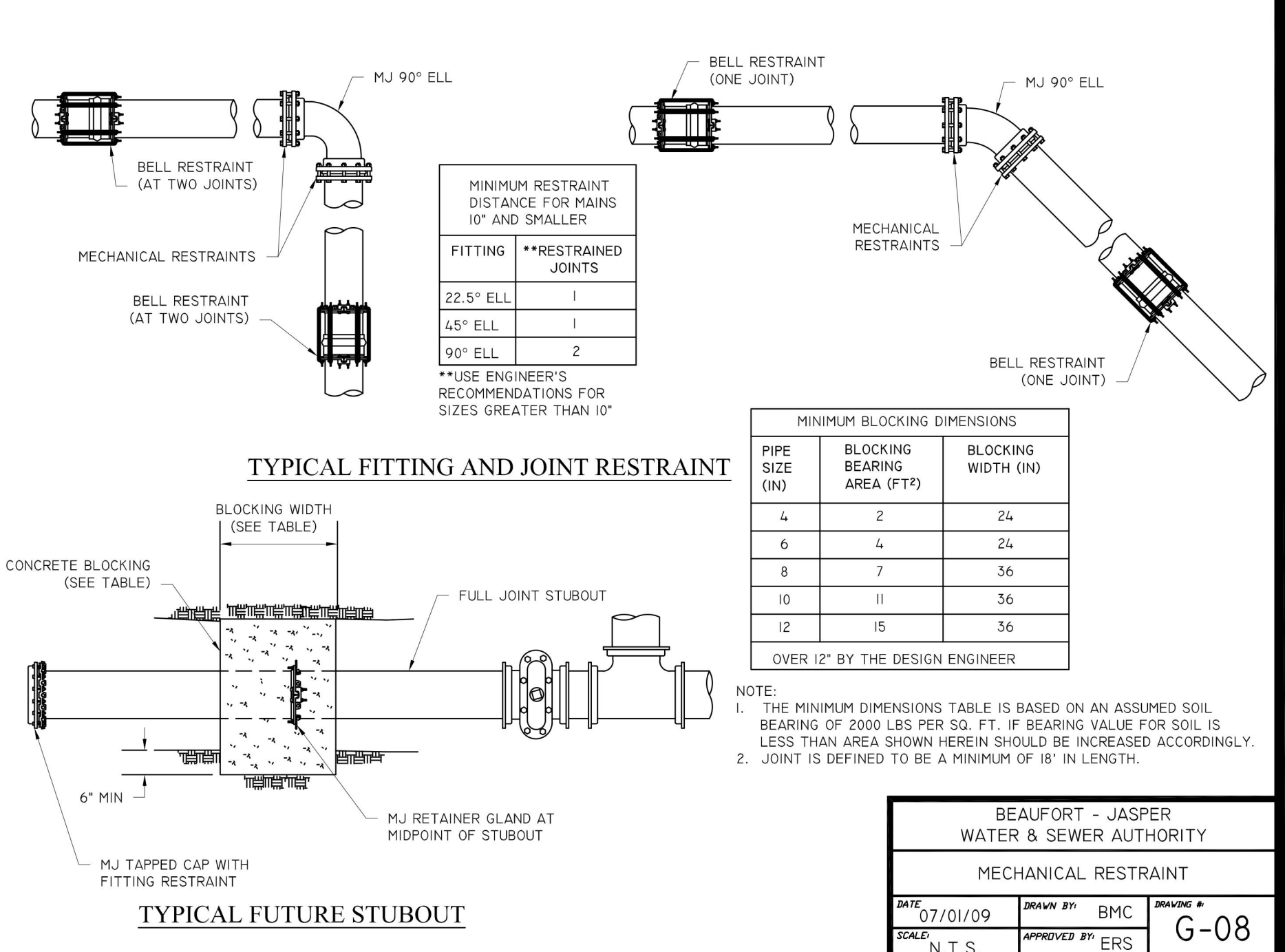
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

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| 2 | 10/15/2023 | ISSUED FOR BIDDING | 10/15/2023 | ISSUED FOR BIDDING |
| 3 | 10/15/2023 | ISSUED FOR BIDDING | 10/15/2023 | ISSUED FOR BIDDING |
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| 22 | 10/15/2023 | ISSUED FOR BIDDING | 10/15/2023 | ISSUED FOR BIDDING |
| 23 | 10/15/2023 | ISSUED FOR BIDDING | 10/15/2023 | ISSUED FOR BIDDING |
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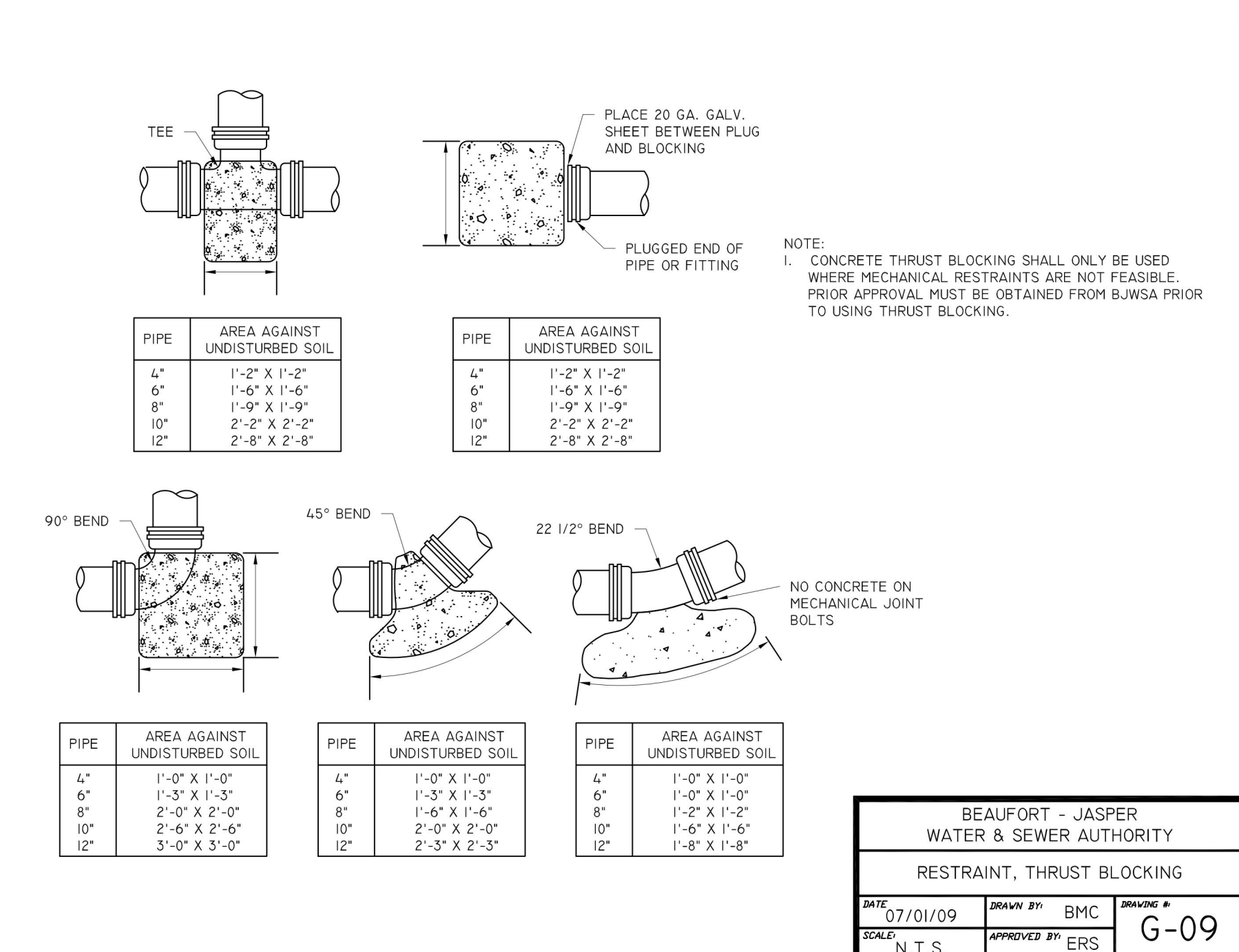
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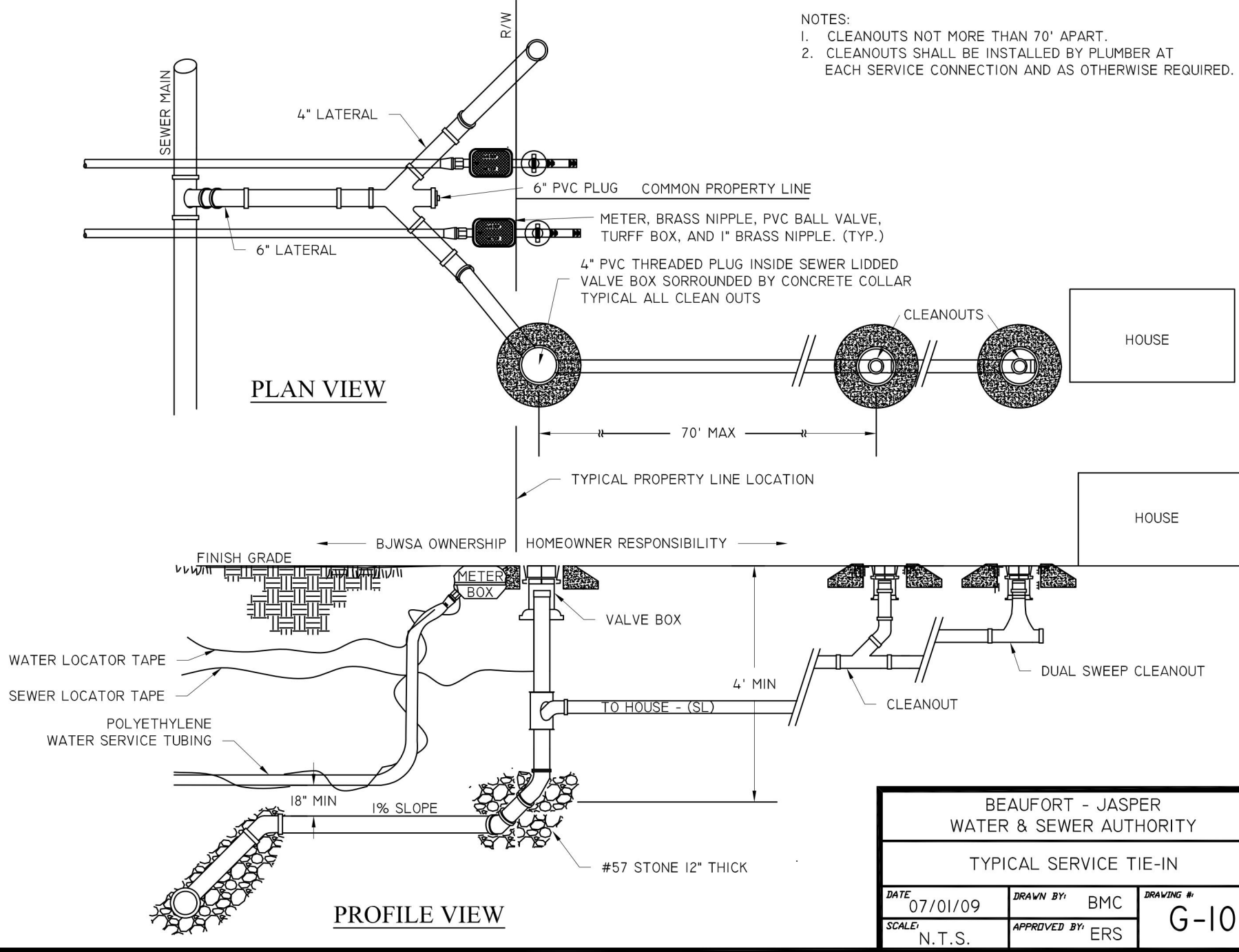
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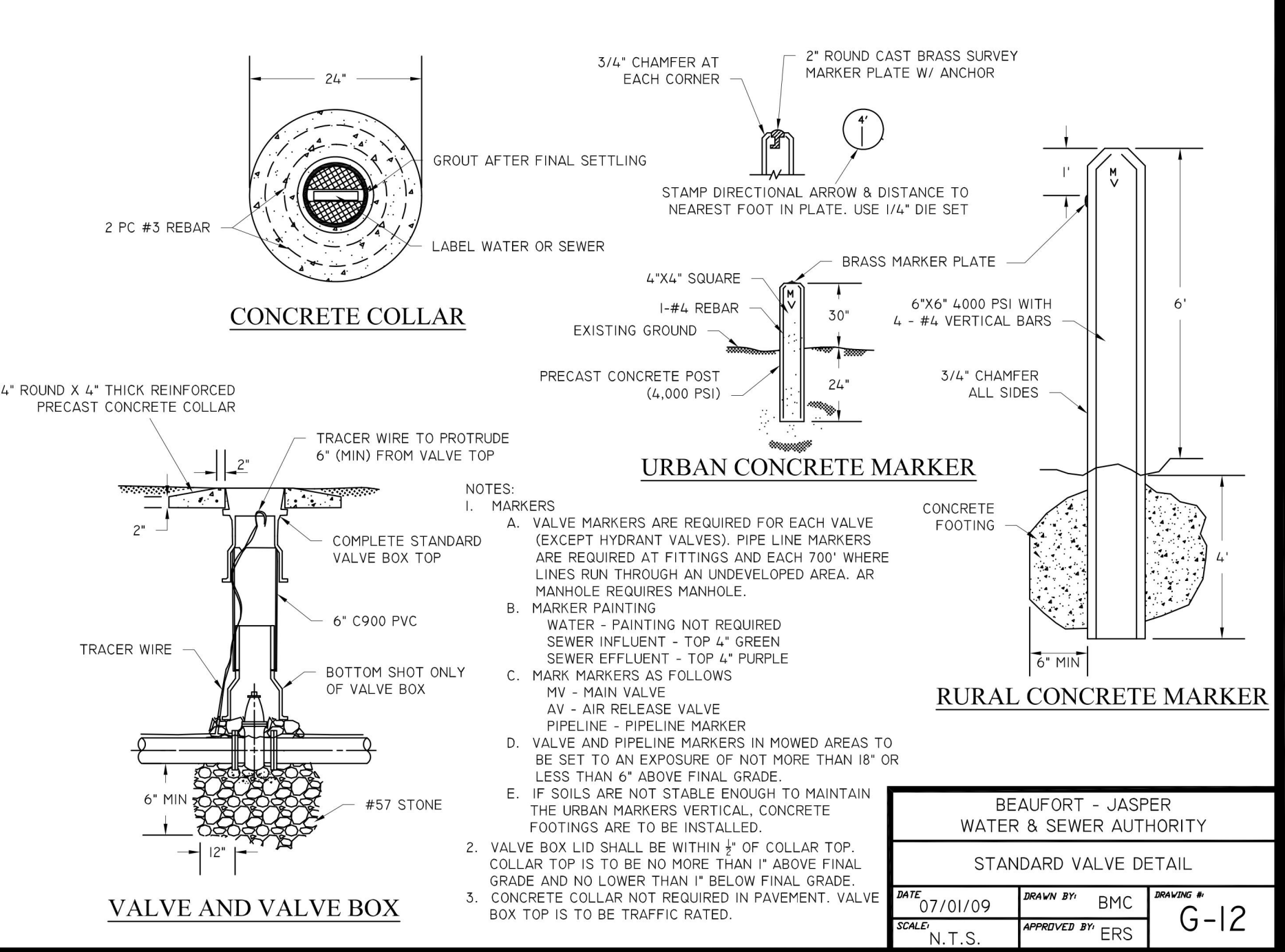
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 RESTRAINT, THRUST BLOCKING

| | | |
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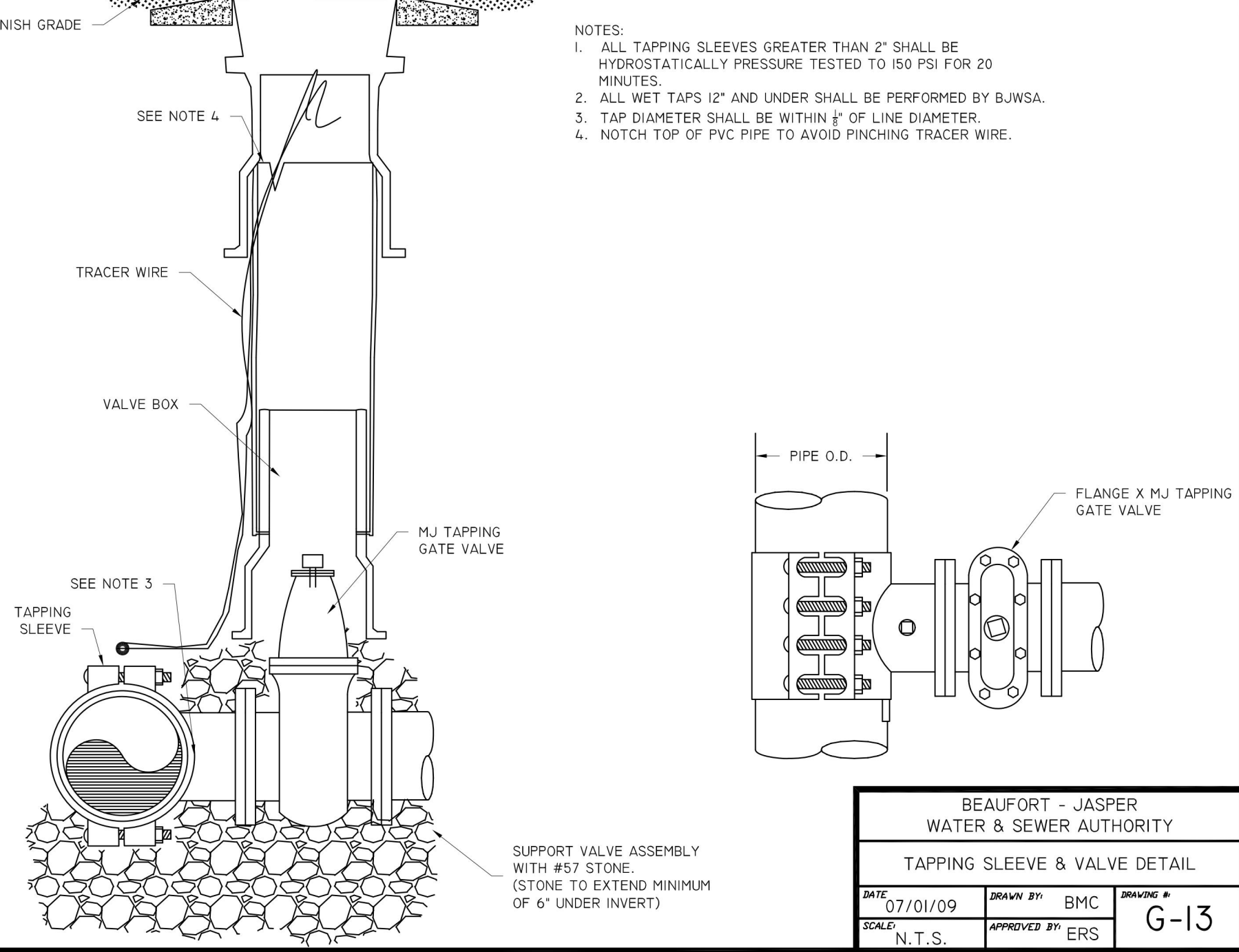
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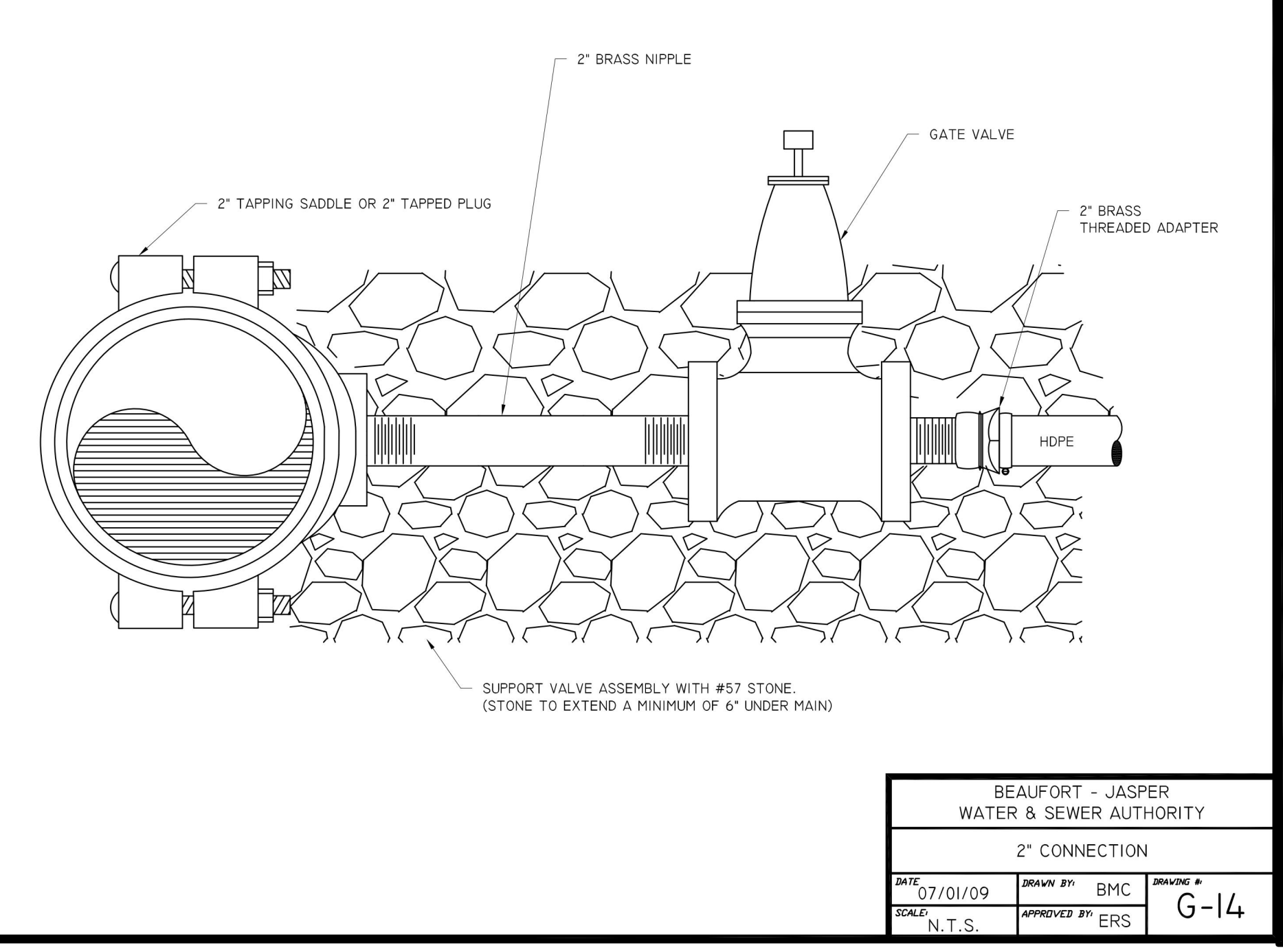
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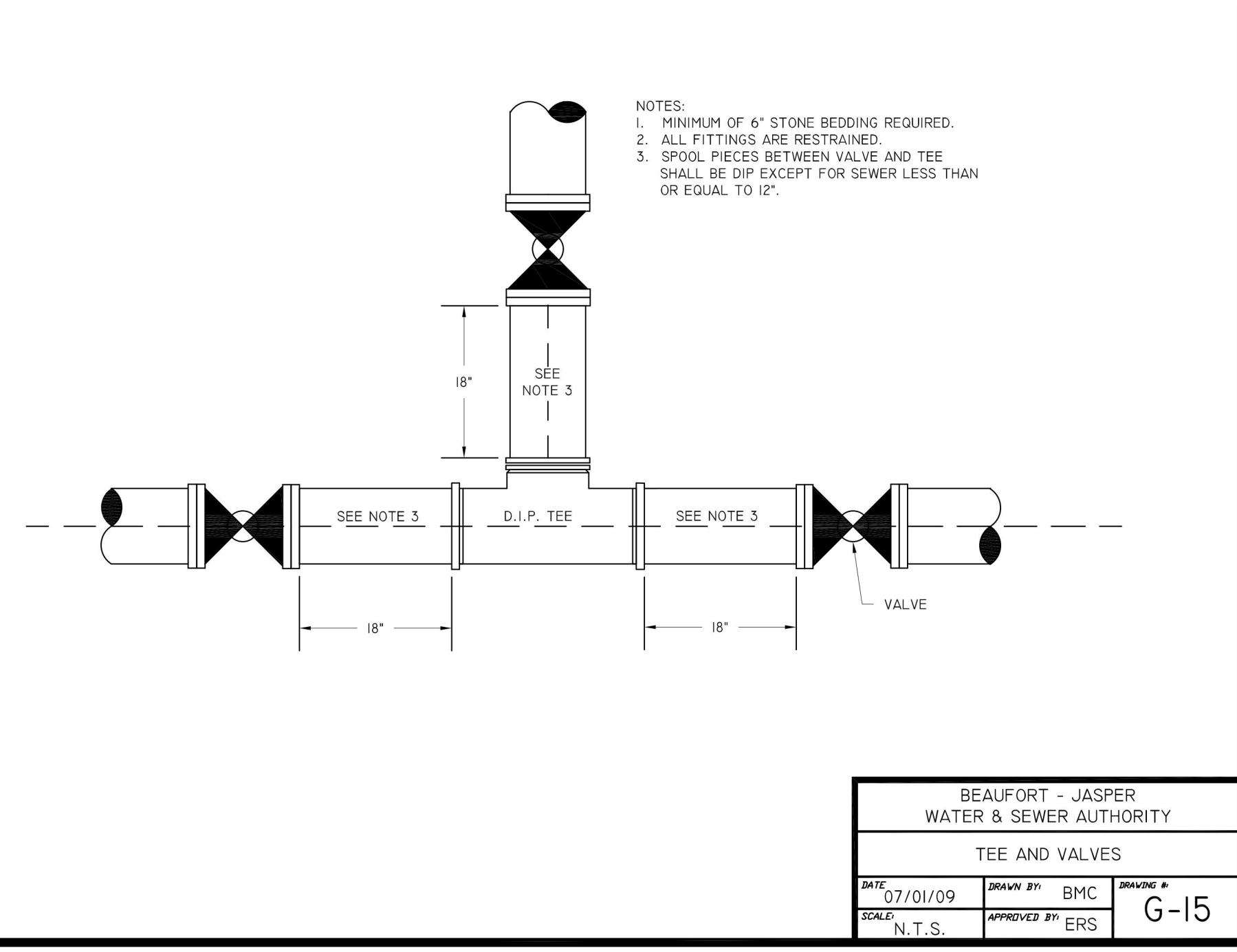
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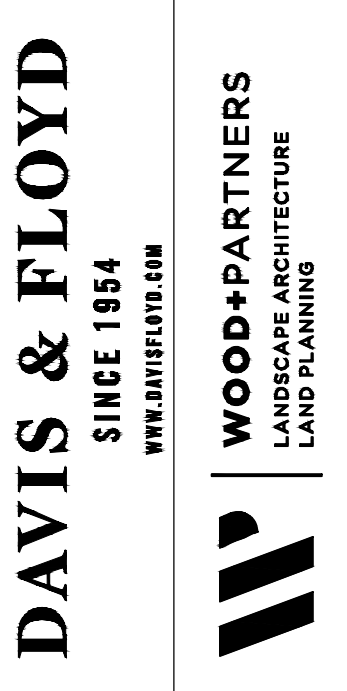
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 WATER & SEWER AUTHORITY
 TEE AND VALVES

| | | |
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CITY OF BEAUFORT
 BEAUFORT, SC 29502
 PROJECT TITLE: SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

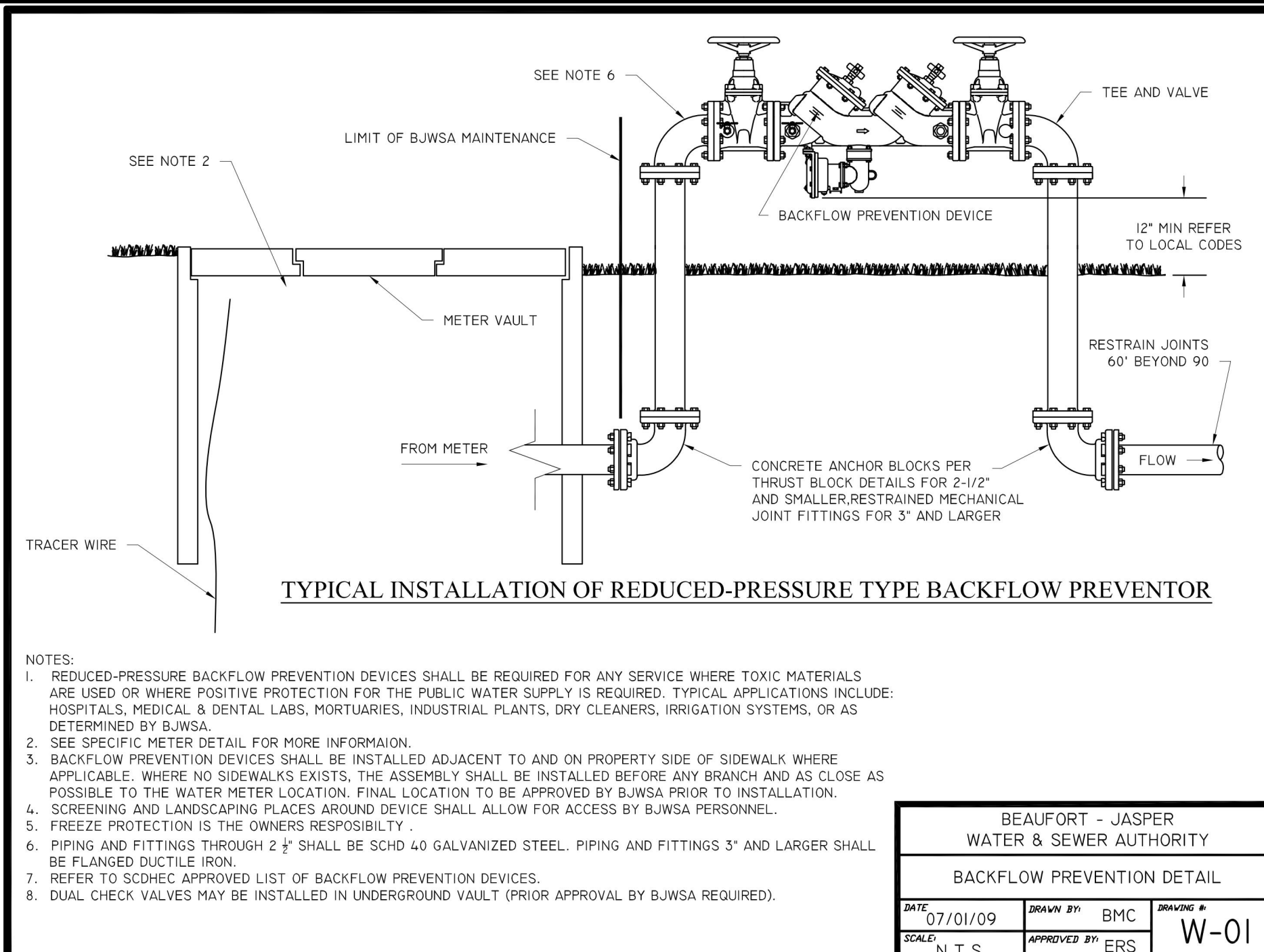
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| NO. | DATE | DESCRIPTION | BY | CHKD |
|-----|------------|--------------------|----|------|
| 1 | 03/20/24 | REVISED | | |
| 2 | 10/16/2023 | REVISED | | |
| 3 | 07/01/09 | ISSUED FOR PERMITS | | |

DATE: 03/20/24 00
 DATE: 10/16/2023
 DATE: 07/01/09
 SCALE: N.T.S.

PROJECT NO: C840
 PAGE: 28 OF 33

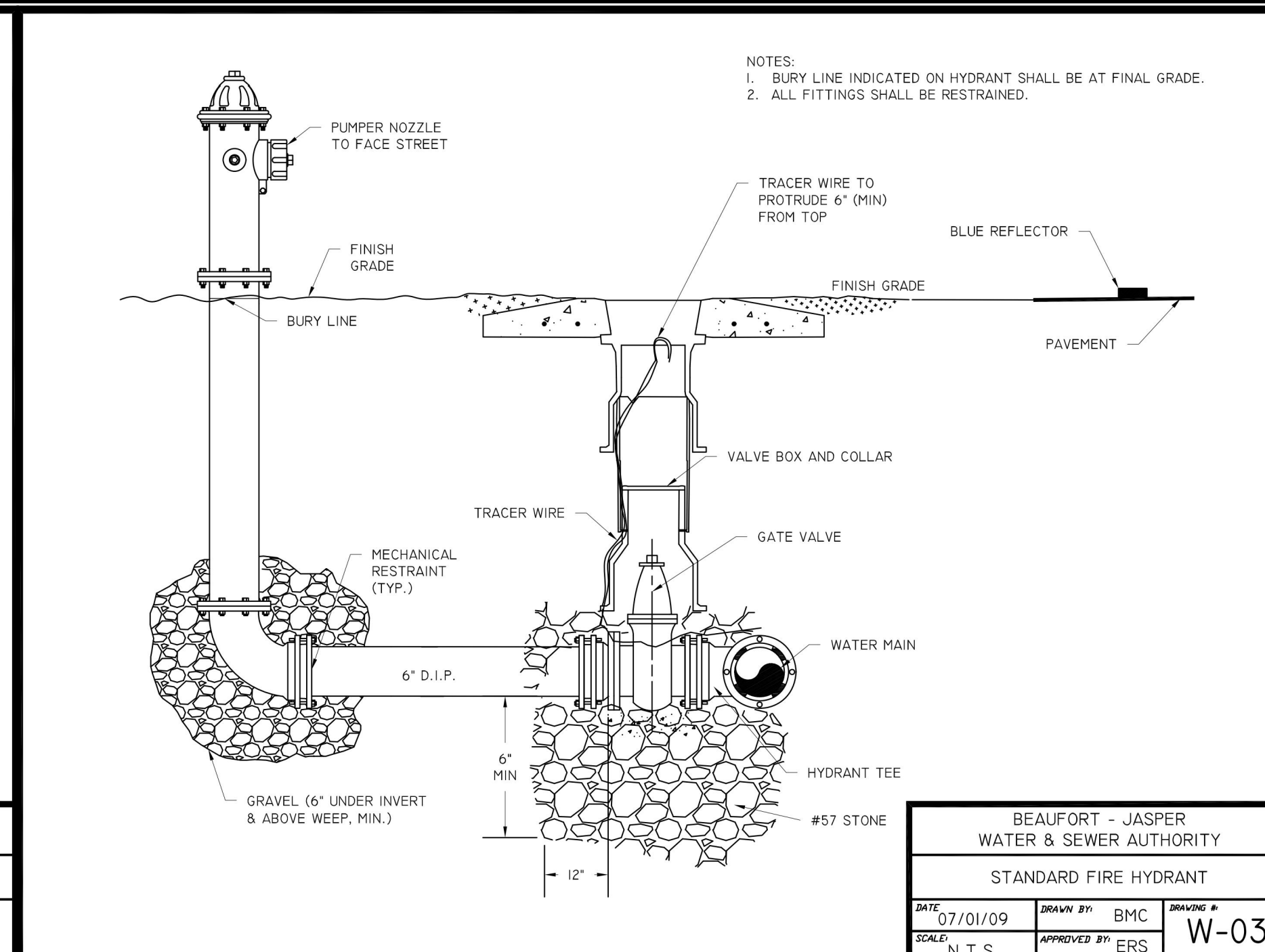
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TYPICAL INSTALLATION OF REDUCED-PRESSURE TYPE BACKFLOW PREVENTOR

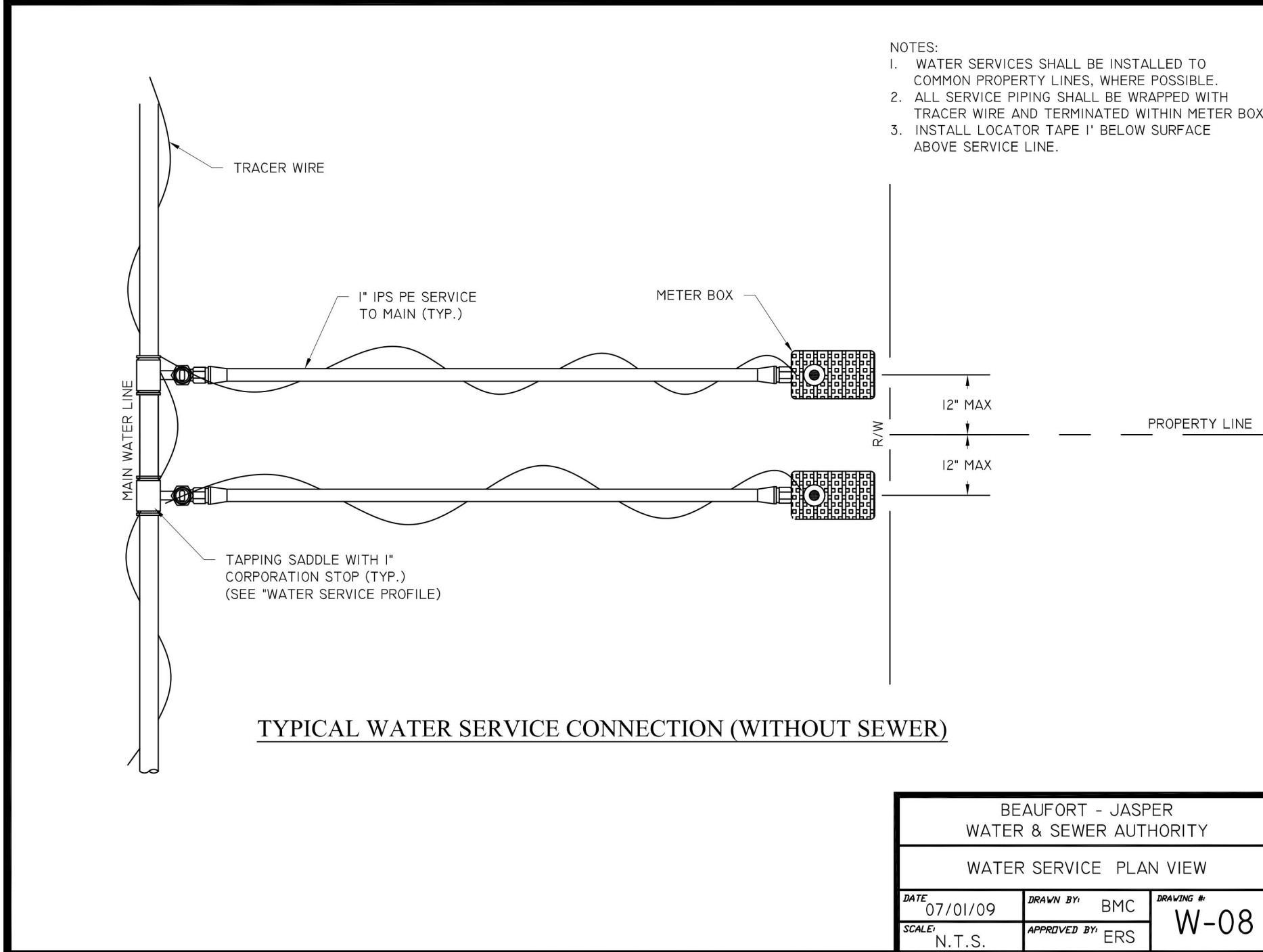
NOTES:
 1. REDUCED-PRESSURE BACKFLOW PREVENTION DEVICES SHALL BE REQUIRED FOR ANY SERVICE WHERE TOXIC MATERIALS ARE USED OR WHERE POSITIVE PROTECTION FOR THE PUBLIC WATER SUPPLY IS REQUIRED. TYPICAL APPLICATIONS INCLUDE: HOSPITALS, MEDICAL & DENTAL LABS, MORTUARIES, INDUSTRIAL PLANTS, DRY CLEANERS, IRRIGATION SYSTEMS, OR AS DETERMINED BY BJWSA.
 2. SEE SPECIFIC METER DETAIL FOR MORE INFORMATION.
 3. BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED ADJACENT TO AND ON PROPERTY SIDE OF SIDEWALK WHERE APPLICABLE. WHERE NO SIDEWALKS EXISTS, THE ASSEMBLY SHALL BE INSTALLED BEFORE ANY BRANCH AND AS CLOSE AS POSSIBLE TO THE WATER METER LOCATION. FINAL LOCATION TO BE APPROVED BY BJWSA PRIOR TO INSTALLATION.
 4. SCREENING AND LANDSCAPING PLACES AROUND DEVICE SHALL ALLOW FOR ACCESS BY BJWSA PERSONNEL.
 5. FREEZE PROTECTION IS THE OWNERS RESPONSIBILITY.
 6. PIPING AND FITTINGS THROUGH 2\"/>

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| BEAUFORT - JASPER WATER & SEWER AUTHORITY | | |
| BACKFLOW PREVENTION DETAIL | | |
| DATE 07/01/09 | DRAWN BY BMC | ISSUING # W-01 |
| SCALE N.T.S. | APPROVED BY ERS | |



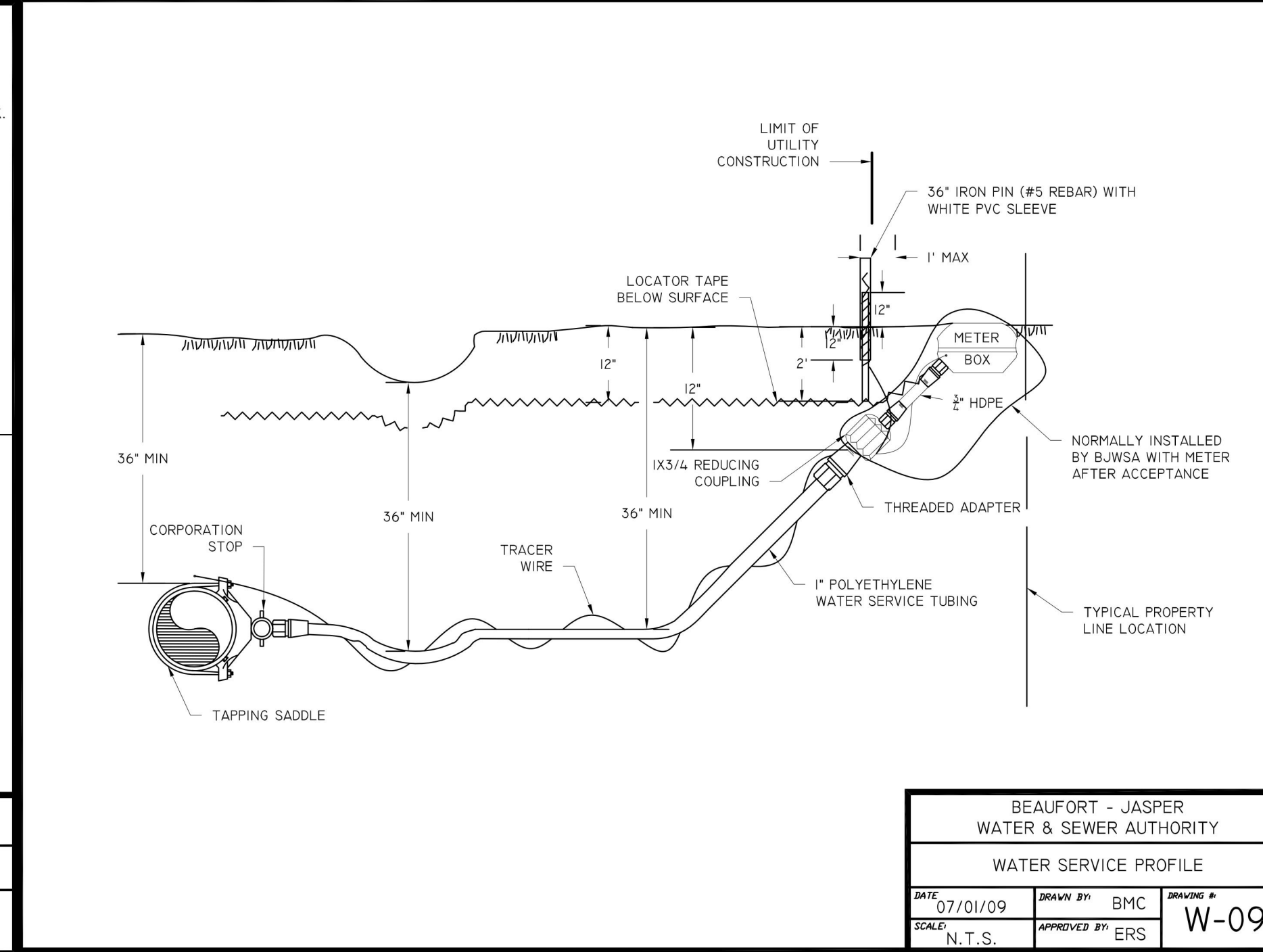
NOTES:
 1. BURIED LINE INDICATED ON HYDRANT SHALL BE AT FINAL GRADE.
 2. ALL FITTINGS SHALL BE RESTRAINED.

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| BEAUFORT - JASPER WATER & SEWER AUTHORITY | | |
| STANDARD FIRE HYDRANT | | |
| DATE 07/01/09 | DRAWN BY BMC | ISSUING # W-03 |
| SCALE N.T.S. | APPROVED BY ERS | |

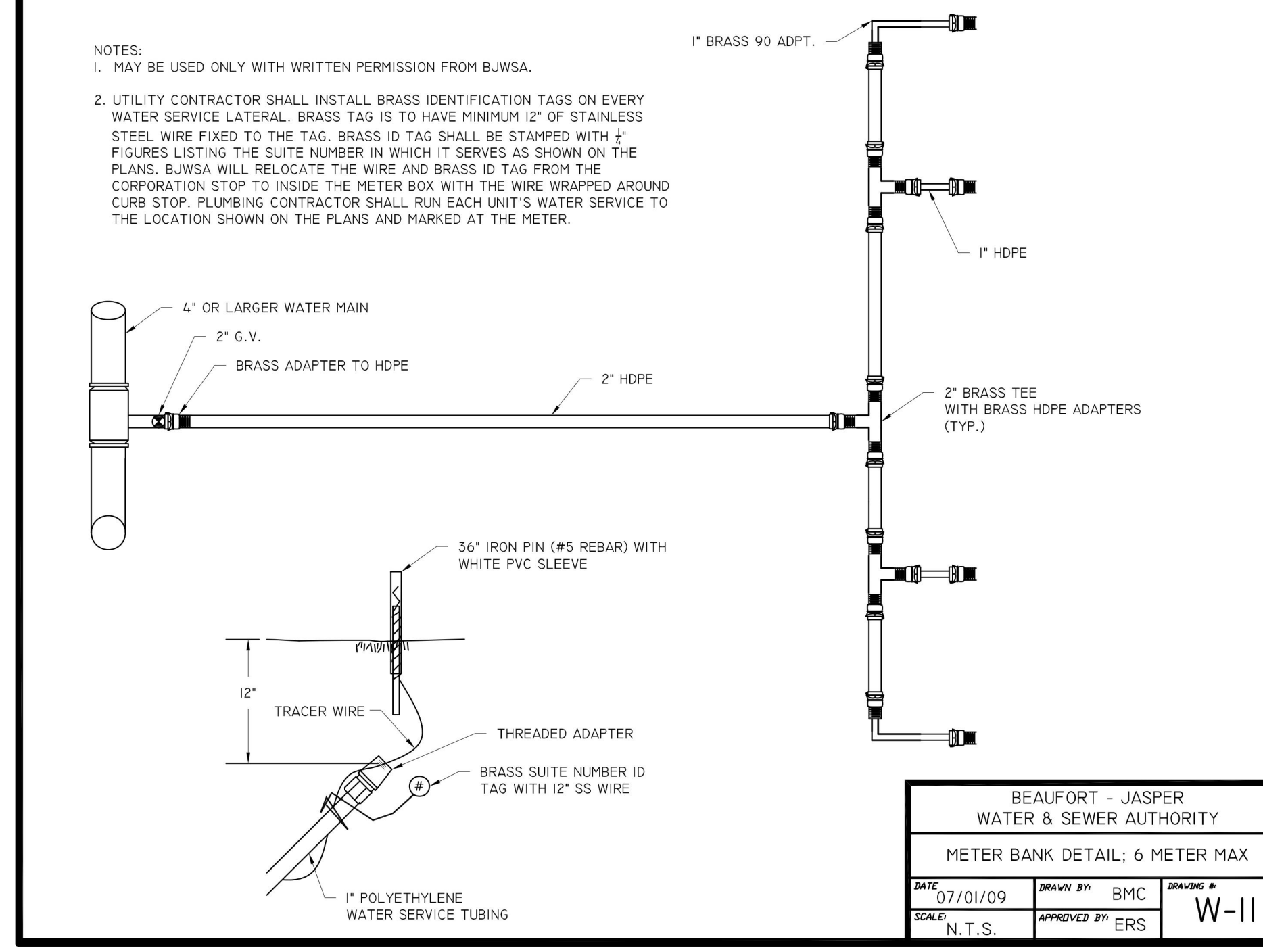


NOTES:
 1. WATER SERVICES SHALL BE INSTALLED TO COMMON PROPERTY LINES, WHERE POSSIBLE.
 2. ALL SERVICE PIPING SHALL BE WRAPPED WITH TRACER WIRE AND TERMINATED WITHIN METER BOX.
 3. INSTALL LOCATOR TAPE 1\"/>

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| BEAUFORT - JASPER WATER & SEWER AUTHORITY | | |
| WATER SERVICE PLAN VIEW | | |
| DATE 07/01/09 | DRAWN BY BMC | ISSUING # W-08 |
| SCALE N.T.S. | APPROVED BY ERS | |



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| BEAUFORT - JASPER WATER & SEWER AUTHORITY | | |
| WATER SERVICE PROFILE | | |
| DATE 07/01/09 | DRAWN BY BMC | ISSUING # W-09 |
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NOTES:
 1. MAY BE USED ONLY WITH WRITTEN PERMISSION FROM BJWSA.
 2. UTILITY CONTRACTOR SHALL INSTALL BRASS IDENTIFICATION TAGS ON EVERY WATER SERVICE LATERAL. BRASS TAG IS TO HAVE MINIMUM 12\"/>

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| BEAUFORT - JASPER WATER & SEWER AUTHORITY | | |
| METER BANK DETAIL; 6 METER MAX | | |
| DATE 07/01/09 | DRAWN BY BMC | ISSUING # W-11 |
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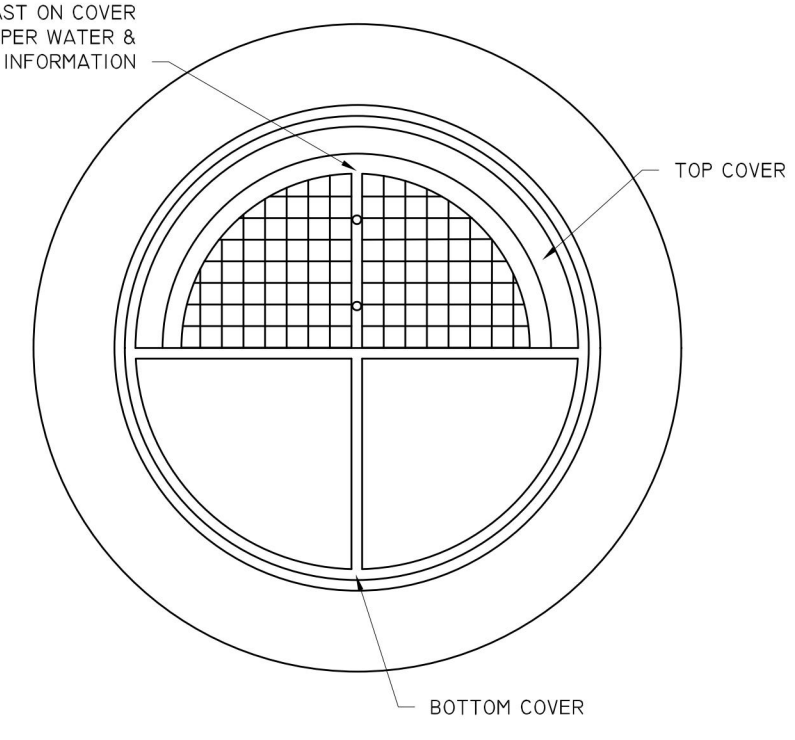
SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

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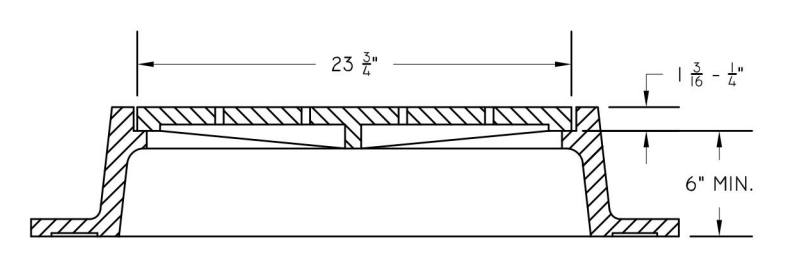
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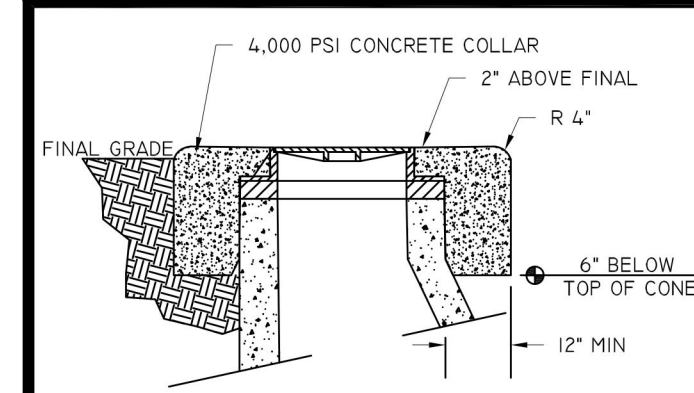
BEAUFORT-JASPER WATER & SEWER AUTHORITY LOGO TO BE CAST ON COVER
 CONTACT BEAUFORT JASPER WATER & SEWER AUTHORITY FOR INFORMATION



- NOTES:
1. CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE, DISTORTION OR OTHER DEFECTS. THEY SHALL BE SMOOTH AND WELL CLEANED BY SHOT BLASTING OR BY SOME OTHER APPROVED METHOD UNLESS AN ALTERNATIVE SPECIFICATION IS MADE.
 2. MATERIALS USED IN THE MANUFACTURE OF CASTINGS SHOULD CONFORM TO ASTM, AASHTO, ASA, MIL, AMS OR FEDERAL SPECIFICATIONS FOR GRAY IRON OR DUCTILE IRON AS FOLLOWS: GRAY IRON-ASTM CLASS 35; DUCTILE IRON-GRADE 60-40-18.
 3. ALL CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN



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| BEAUFORT - JASPER WATER & SEWER AUTHORITY | | | |
| MANHOLE, COVER AND FRAME | | | |
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| SCALE N.T.S. | APPROVED BY ERS | | |

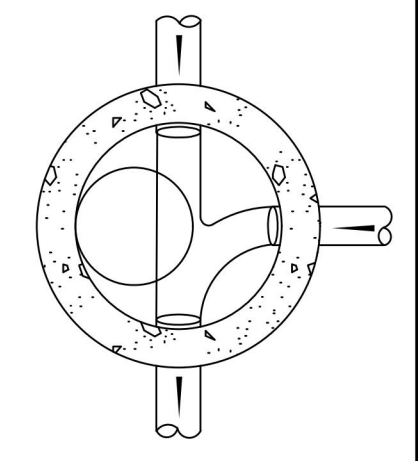
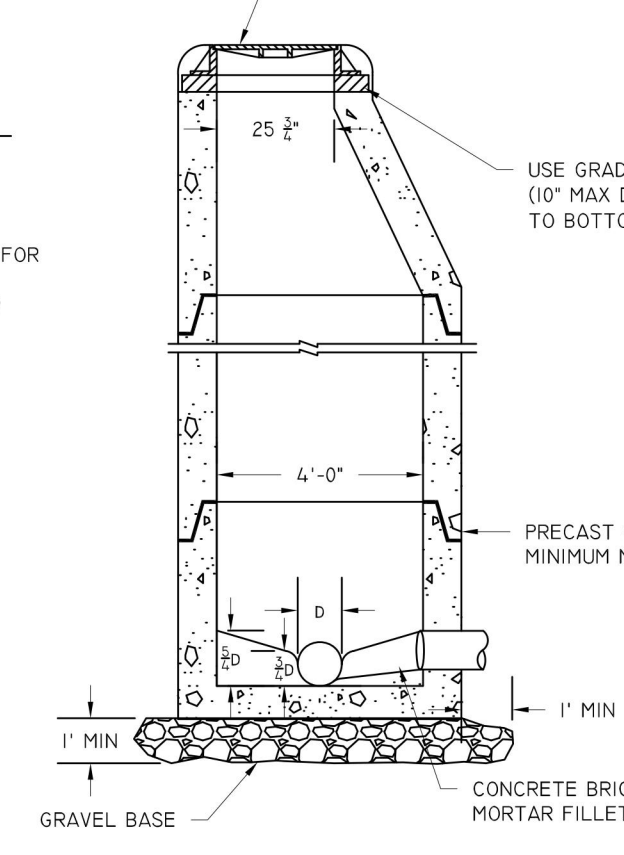


**RURAL MANHOLE
PROTECTIVE COLLAR**

- NOTES:
1. REFER TO STANDARD SPECIFICATIONS FOR INTERIOR COATING REQUIREMENTS.
 2. CONCRETE GROUTING IS NOT ALLOWED INSIDE MANHOLES.
 3. RIM ELEVATION ON RURAL MANHOLES SHALL BE 6" HIGHER THAN NEAREST MANHOLE OUTSIDE THE RURAL AREA.

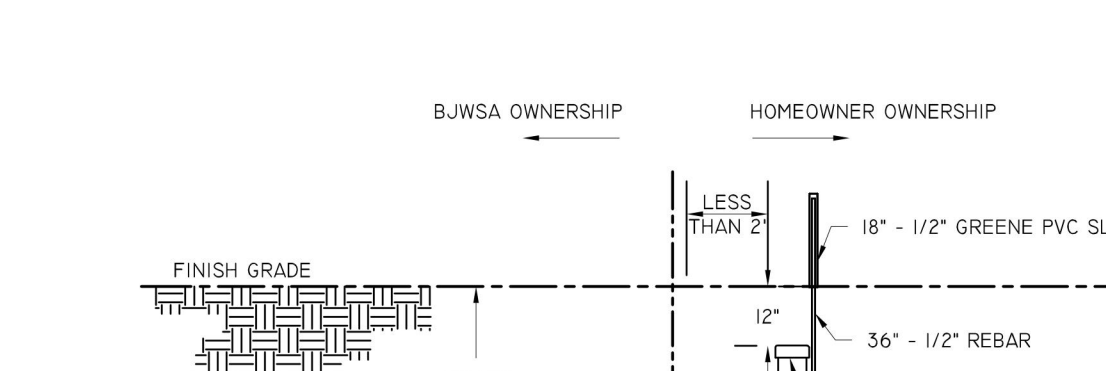


JOINT DETAIL



PLAN VIEW

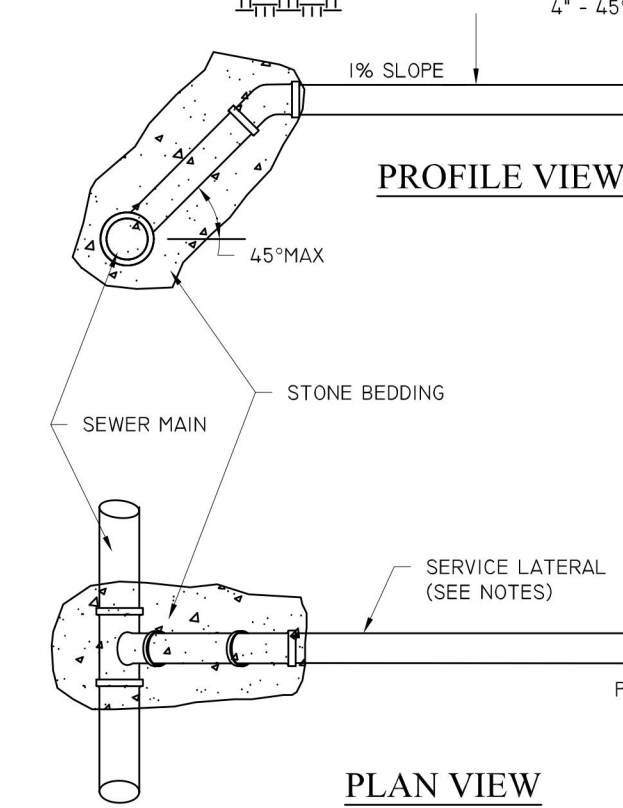
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| STANDARD MANHOLE | | | |
| DATE 07/01/09 | DRAWN BY BMC | DESIGNING # | S-09 |
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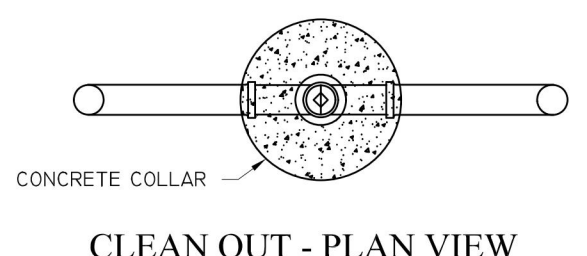
PROFILE VIEW

- NOTES:
1. SERVICE LATERAL SHALL BE INSTALLED 12" BELOW FINISHED GRADE AND CAPPED IN A MANNER SUITABLE FOR PRESSURE TESTING.
 2. CLEAN OUTS INSIDE GRASSSED AREA SHALL CONSIST OF PVC PLUG IN SEWER LIDDED VALVE BOX SURROUNDED BY A CONCRETE COLLAR. COLLAR SHALL BE FLUSH WITH FINISHED GRADE. VALVE BOX LID SHALL NOT PROTRUDE ABOVE COLLAR TOP.
 3. ALL CLEAN OUTS ARE TO BE 4", INCLUDING CLEAN OUTS ON 6" SEWER LATERALS.

CLEAN OUT INSTALLATION - PROFILE VIEW



PLAN VIEW



CLEAN OUT - PLAN VIEW

| | | | |
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| SEWER SERVICE, SINGLE | | | |
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BJWSA SEWER DETAILS

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GENERAL NOTES:

- DO NOT PLACE SILT FENCE ACROSS CHANNELS OR IN OTHER AREAS SUBJECT TO CONCENTRATED FLOWS. SILT FENCE SHOULD NOT BE USED AS A VELOCITY CONTROL BMP. CONCENTRATED FLOWS ARE ANY FLOWS GREATER THAN 1.0 CFS.
- MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE SILT FENCE SHALL BE 100 FEET.
- MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO THE FENCE LINE) SHALL BE 2:1.
- SILT FENCE JOINTS, WHEN NECESSARY, SHALL BE COMPLETED BY ONE OF THE FOLLOWING OPTIONS:
 - WRAP EACH FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 1-FOOT MINIMUM OVERLAP.
 - OVERLAP SILT FENCE BY INSTALLING 3 FEET PASSED THE SUPPORT POST TO WHICH THE NEW SILT FENCE ROLL IS ATTACHED. ATTACH OLD ROLL TO NEW ROLL WITH HEAVY-DUTY PLASTIC TIES, OR
 - OVERLAP ENTIRE WIDTH OF EACH SILT FENCE ROLL FROM ONE SUPPORT POST TO THE NEXT SUPPORT POST.
- ATTACH FILTER FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED WITHIN THE TOP 8-INCHES OF THE FABRIC.
- INSTALL THE SILT FENCE PERPENDICULAR TO THE DIRECTION OF THE STORM WATER FLOW AND PLACE THE SILT FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEAN OUT.
- INSTALL SILT FENCE CHECKS (IE-BACKS) EVERY 50-100 FEET, DEPENDENT ON SLOPE, ALONG SILT FENCE THAT IS INSTALLED WITH SLOPE AND WHERE CONCENTRATED FLOWS ARE EXPECTED OR ARE DOCUMENTED ALONG THE PROPOSED/INSTALLED SILT FENCE.

POST REQUIREMENTS:

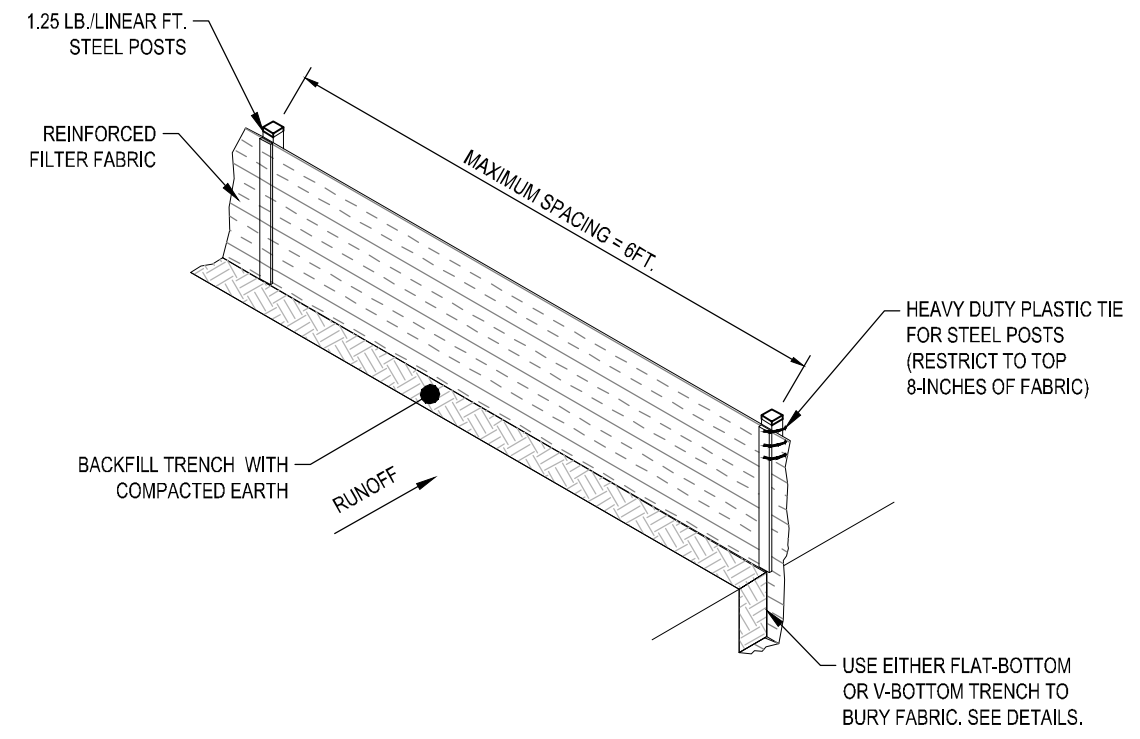
- SILT FENCE POSTS MUST BE 48-INCH LONG STEEL POSTS THAT MEET, AT A MINIMUM, THE FOLLOWING PHYSICAL CHARACTERISTICS:
 - COMPOSED OF A HIGH STRENGTH STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
 - INCLUDE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND A NOMINAL "T" LENGTH OF 1.48-INCHES.
 - WEIGH 1.25 POUNDS PER FOOT (± 8%).
- POSTS SHALL BE EQUIPPED WITH PROJECTIONS TO AID IN FASTENING OF FILTER FABRIC.
- STEEL POSTS MAY NEED TO HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM WHEN INSTALLED ALONG STEEP SLOPES OR INSTALLED IN LOOSE SOILS. THE PLATE SHOULD HAVE A MINIMUM CROSS-SECTION OF 12 SQUARE INCHES AND BE COMPOSED OF 1/2" GAUGE STEEL AT A MINIMUM. THE METAL SOIL STABILIZATION PLATE SHOULD BE COMPLETELY BURIED.
- INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1-TO 2-INCHES ABOVE THE FABRIC SHALL BE MAINTAINED, AND A MAXIMUM HEIGHT OF 3 FEET SHALL BE MAINTAINED ABOVE THE GROUND.
- POST SPACING SHALL BE AT A MAXIMUM OF 6 FEET ON CENTER.
- INSTALL RUBBER SAFETY CAPS ON TOPS OF STEEL POSTS.

INSPECTION & MAINTENANCE:

- THE KEY TO FUNCTIONAL SILT FENCE IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- REGULAR INSPECTIONS OF SILT FENCE SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- ATTENTION TO SEDIMENT ACCUMULATIONS ALONG THE SILT FENCE IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE SILT FENCE.
- REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA, STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
- CHECK FOR AREAS WHERE STORM WATER RUNOFF HAS ERODED A CHANNEL BENEATH THE SILT FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED DUE TO RUNOFF OVERTOPPING THE SILT FENCE. INSTALL CHECK-TIE-BACKS AND/OR REINSTALL SILT FENCE, AS NECESSARY.
- CHECK FOR TEARS WITHIN THE SILT FENCE. AREAS WHERE SILT FENCE HAS BEGUN TO DECOMPOSE, AND FOR ANY OTHER CIRCUMSTANCE THAT MAY RENDER THE SILT FENCE INEFFECTIVE, REMOVE DAMAGED SILT FENCE AND REINSTALL NEW SILT FENCE IMMEDIATELY.
- ALL SILT FENCE AND POST MATERIALS SHOULD BE REMOVED AND PROPERLY DISPOSED OF WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED AND ONCE IT IS REMOVED, THE RESULTING DISTURBED AREA SHALL BE PERMANENTLY STABILIZED.

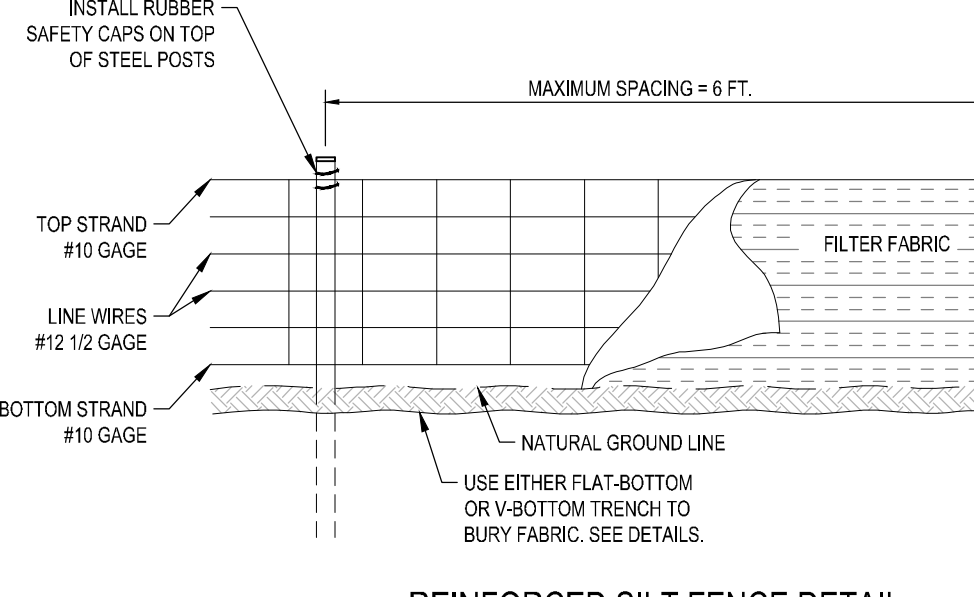
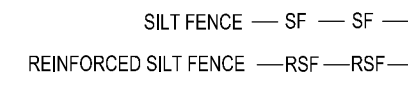
FABRIC REQUIREMENTS:

- SILT FENCE MUST BE COMPOSED OF WOVEN GEOTEXTILE FILTER FABRIC THAT CONSISTS OF THE FOLLOWING REQUIREMENTS:
 - COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES THAT ARE FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER.
 - FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION.
 - FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES; AND,
 - HAVE A MINIMUM WIDTH OF 36-INCHES.
- USE ONLY FABRIC APPEARING ON SC DOT'S QUALIFIED PRODUCTS LISTING (OPL), APPROVAL SHEET #34, MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SC DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
- FILTER FABRIC SHALL BE PURCHASED IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS.
- FILTER FABRIC SHALL BE INSTALLED AT A MINIMUM OF 24-INCHES ABOVE THE GROUND.



SILT FENCE INSTALLATION

PLAN SYMBOL

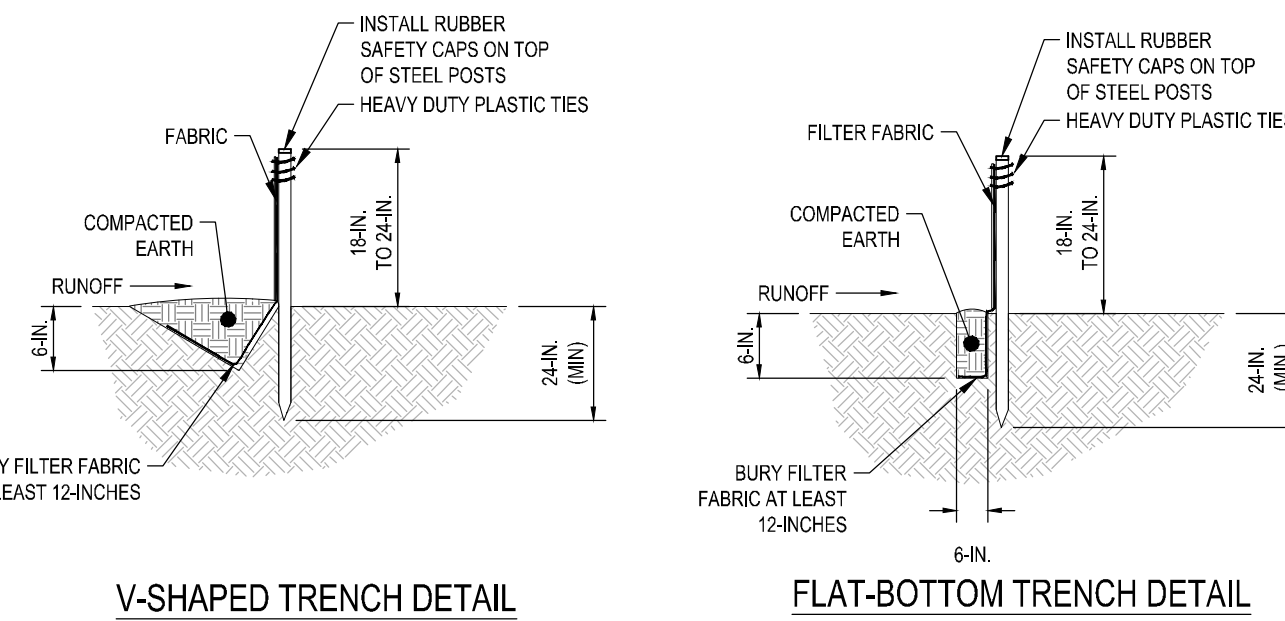


REINFORCED SILT FENCE DETAIL

REINFORCED SILT FENCE NOTES:

- WOVEN WIRE FENCE SHALL BE REQUIRED WHERE SPECIFIED AND AS A BACKING FOR FILTER FABRIC WITH AN ELONGATION AS DETERMINED BY ASTM D 1582, OF 50% OR GREATER. THE WIRE FENCE SHALL BE A MINIMUM OF 32 INCHES IN WIDTH AND SHALL HAVE A MINIMUM OF 6-LINE WIRES WITH 12 INCH STAY SPACING.
- WOVEN WIRE FENCE SHALL BE ATTACHED TO STEEL POST USING THE WIRES. NUMBER AND LOCATION OF FASTENERS WILL BE AS DIRECTED BY THE ENGINEER BUT IN ALL CASES, AFFIXED TO THE POST IN NO LESS THAN FOUR PLACES. THE FILTER FABRIC WILL BE TIED TO THE WOVEN WIRE FENCE AS DIRECTED BY THE ENGINEER IN SUCH A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC.
- WHEN THE TEMPORARY SILT FENCE IS REQUIRED TO RUN NEXT TO AND PARALLEL WITH A CONSTRUCTION FENCE, THE FILTER FABRIC MAY BE ATTACHED TO THE CONSTRUCTION FENCE INSTEAD OF INSTALLING A SEPARATE WOVEN WIRE FENCE.

***THIS DETAIL IS BASED ON SC DCHC STANDARD DRAWING NO. SC-03 (FEBRUARY 2014) AND HAS BEEN FORMATTED TO D&F STANDARDS.

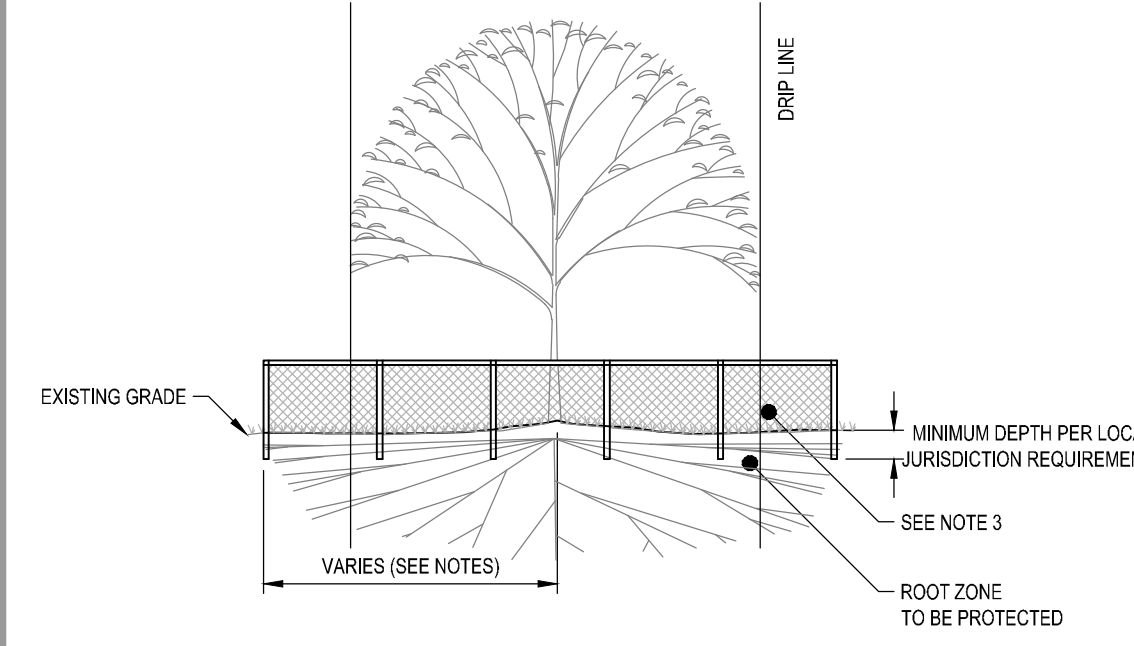


V-SHAPED TRENCH DETAIL

FLAT-BOTTOM TRENCH DETAIL

SC-03 SILT FENCE

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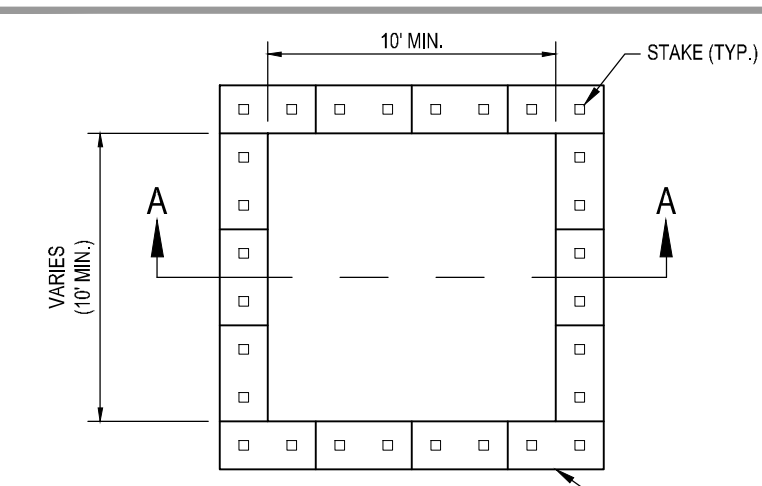


TREE PROTECTION BARRICADE

N.T.S.

NOTES:

- PROTECTED TREES SHALL BE TREATED AND CARED FOR BY A CERTIFIED ARBORIST DURING CONSTRUCTION.
- INSTALLATION AND APPROVAL OF TREE PROTECTION BARRICADES IS REQUIRED PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES.
- CONSTRUCT TREE BARRICADES WITH THE MATERIALS AND TO THE DIMENSIONS SPECIFIED BY LOCAL ORDINANCE.
- UNLESS SPECIFIED BY LOCAL ORDINANCE, INSTALL TREE PROTECTION AT THE DRIP LINE OR AS SHOWN ON THE DRAWINGS.
- ALL WORK DONE WITHIN PROTECTIVE BARRICADES IS TO BE DONE BY HAND AND LIGHT EQUIPMENT.
- ANY ROOTS TO BE REMOVED OUTSIDE PROTECTIVE BARRICADES SHALL BE SEVERED CLEAN. A 2" LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS DURING CONSTRUCTION.



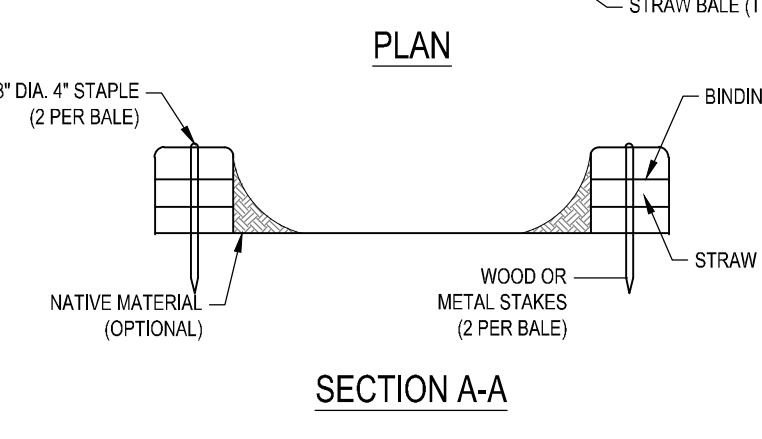
CONCRETE WASHOUT SIGN DETAIL

NOTES:

- ACTUAL LAYOUT DETERMINED IN FIELD.
- INSTALL CONCRETE WASHOUT SIGN (24"x24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
- TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
- CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
- THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
- SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
- A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

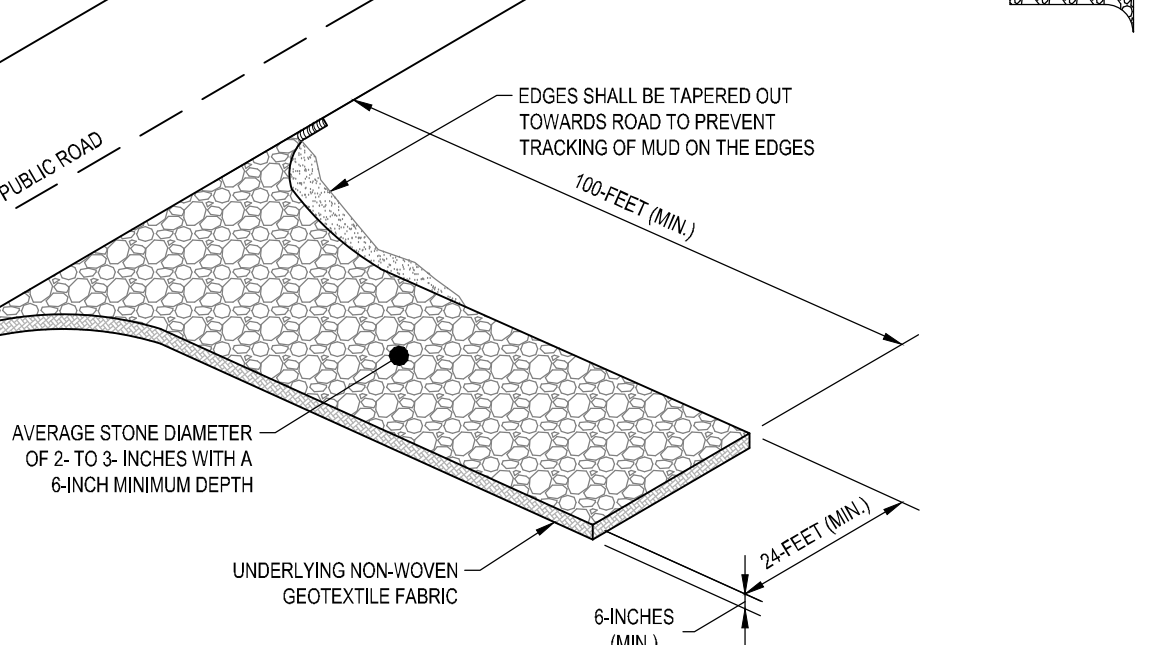
RC-07 CONCRETE WASHOUT

N.T.S.



SECTION A-A

PLAN SYMBOL



SC-06 STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

GENERAL NOTES:

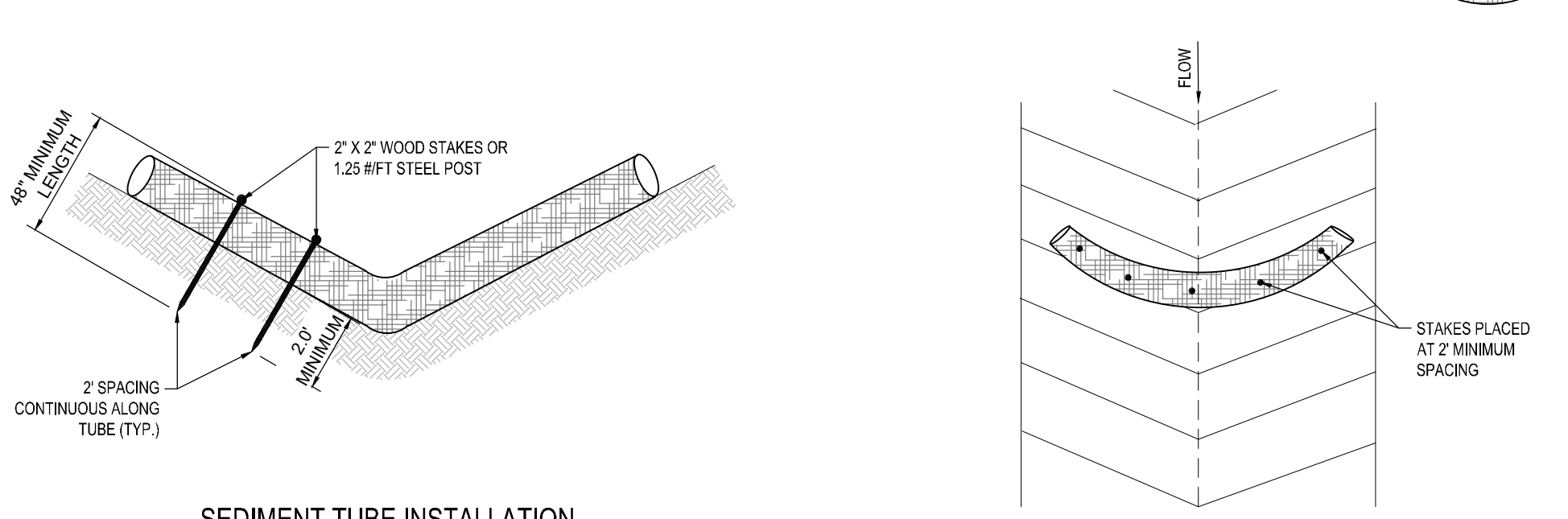
- STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL EGRESS/INGRESS A CONSTRUCTION SITE ONTO A PUBLIC ROAD OR ANY IMPERVIOUS SURFACES, SUCH AS PARKING LOTS.
- INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE.
- INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
- THE ENTRANCE SHALL CONSIST OF 2- TO 3-INCH D₅₀ STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES.
- MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24- FEET WIDE BY 100- FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.
- THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING AT THE EDGE OF THE ENTRANCE.
- DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.
- LIMESTONE MAY NOT BE USED FOR THE STONE PAD.

CONSTRUCTION ENTRANCE - INSPECTION & MAINTENANCE:

- THE KEY TO FUNCTIONAL CONSTRUCTION ENTRANCES IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- REGULAR INSPECTIONS OF CONSTRUCTION ENTRANCES SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- DURING REGULAR INSPECTIONS, CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. INSPECTION FREQUENCIES MAY NEED TO BE MORE FREQUENT DURING LONG PERIODS OF WET WEATHER.
- RESHAPE THE STONE PAD AS NECESSARY FOR DRAINAGE AND RUNOFF CONTROL.
- WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY SITE INSPECTOR. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE THE AMOUNT OF MUD BEING CARRIED OFF-SITE BY VEHICLES. FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE PAD.
- IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO ADJACENT IMPERVIOUS SURFACES BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.
- DURING MAINTENANCE ACTIVITIES, ANY BROKEN PAVEMENT SHOULD BE REPAIRED IMMEDIATELY.
- CONSTRUCTION ENTRANCES SHOULD BE REMOVED AFTER THE SITE HAS REACHED FINAL STABILIZATION. PERMANENT VEGETATION SHOULD REPLACE AREAS FROM WHICH CONSTRUCTION ENTRANCES HAVE BEEN REMOVED, UNLESS AREA WILL BE CONVERTED TO AN IMPERVIOUS SURFACE TO SERVE POST-CONSTRUCTION.

***THIS DETAIL IS BASED ON SC DCHC STANDARD DRAWING NO. SC-06 (FEBRUARY 2014) AND HAS BEEN FORMATTED TO D&F STANDARDS.

PLAN SYMBOL



SEDIMENT TUBE INSTALLATION

GENERAL NOTES:

- SEDIMENT TUBES MAY BE INSTALLED ALONG CONTOURS, IN DRAINAGE CONVEYANCE CHANNELS, AND AROUND INLETS TO HELP PREVENT OFF-SITE DISCHARGE OF SEDIMENT-LADEN STORM WATER RUNOFF.
- SEDIMENT TUBES ARE ELONGATED TUBES OF COMPACTED GEOTEXTILES, CURLED EXCELSIOR WOOD, NATURAL COCONUT FIBER, OR HARDWOOD MULCH, STRAW, PINE NEEDLE, AND LEAF MULCH-FILLED SEDIMENT TUBES ARE NOT PERMITTED.
- THE OUTER NETTING OF THE SEDIMENT TUBE SHOULD CONSIST OF SEAMLESS, HIGH-DENSITY POLYETHYLENE PHOTODEGRADABLE MATERIALS TREATED WITH ULTRAVIOLET STABILIZERS OR A SEAMLESS, HIGH-DENSITY POLYETHYLENE NON-DEGRADABLE MATERIAL.
- SEDIMENT TUBES, WHEN USED AS CHECKS WITHIN CHANNELS, SHOULD RANGE BETWEEN 18-INCHES AND 24-INCHES DEPENDING ON CHANNEL DIMENSIONS. DIAMETERS OUTSIDE THIS RANGE MAY BE ALLOWED WHERE NECESSARY WHEN APPROVED.
- CURLED EXCELSIOR WOOD, OR NATURAL COCONUT PRODUCTS THAT ARE ROLLED UP TO CREATE A SEDIMENT TUBE ARE NOT ALLOWED.
- SEDIMENT TUBES SHOULD BE STAKED USING WOODEN STAKES (2-INCH X 2-INCH) OR STEEL POSTS (STANDARD "I" OR "T" SECTIONS WITH A MINIMUM HEIGHT OF 1.25 POUNDS PER FOOT) AT A MINIMUM OF 48-INCHES IN LENGTH PLACED ON 2-FOOT CENTERS.
- INSTALL ALL SEDIMENT TUBES TO ENSURE THAT NO GAPS EXIST BETWEEN THE SOIL AND THE BOTTOM OF THE TUBE. MANUFACTURER'S RECOMMENDATIONS SHOULD ALWAYS BE CONSULTED BEFORE INSTALLATION.
- THE ENDS OF ADJACENT SEDIMENT TUBES SHOULD BE OVERLAPPED 6-INCHES TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT.
- SEDIMENT TUBES SHOULD NOT BE STACKED ON TOP OF ONE ANOTHER, UNLESS RECOMMENDED BY MANUFACTURER.
- EACH SEDIMENT TUBE SHOULD BE INSTALLED IN A TRENCH WITH A DEPTH EQUAL TO 1/5 THE DIAMETER OF THE SEDIMENT TUBE.
- SEDIMENT TUBES SHOULD CONTINUE UP THE SIDE SLOPES A MINIMUM OF 1-FOOT ABOVE THE DESIGN FLOW DEPTH OF THE CHANNEL.
- INSTALL STAKES AT A DIAGONAL FACING INCOMING RUNOFF.

INSPECTION & MAINTENANCE:

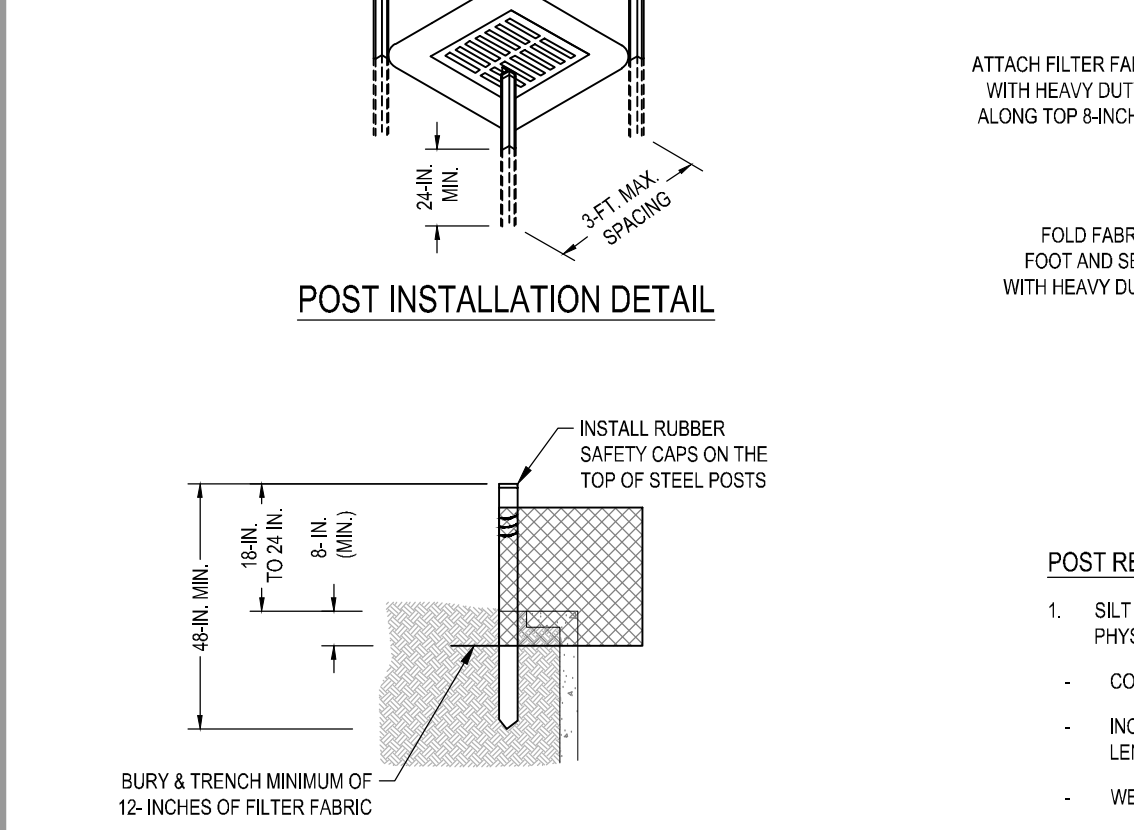
- THE KEY TO FUNCTIONAL SEDIMENT TUBES IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- REGULAR INSPECTIONS OF SEDIMENT TUBES SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- ATTENTION TO SEDIMENT ACCUMULATIONS IN FRONT OF THE SEDIMENT TUBE IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE SEDIMENT TUBE.
- REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA, STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
- LARGE DEBRIS, TRASH, AND LEAVES SHOULD BE REMOVED FROM IN FRONT OF TUBES WHEN FOUND.
- IF EROSION CAUSES THE EDGES TO FALL TO A HEIGHT EQUAL TO OR BELOW THE HEIGHT OF THE SEDIMENT TUBE, REPAIRS SHOULD BE MADE IMMEDIATELY TO PREVENT RUNOFF FROM BYPASSING TUBE.
- SEDIMENT TUBES SHOULD BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN COMPLETELY STABILIZED. PERMANENT VEGETATION SHOULD REPLACE AREAS FROM WHICH SEDIMENT TUBES HAVE BEEN REMOVED.

***THIS DETAIL IS BASED ON SC DCHC STANDARD DRAWING NO. SC-05 (FEBRUARY 2014) AND HAS BEEN FORMATTED TO D&F STANDARDS.

SC-05 SEDIMENT TUBES

N.T.S.

PLAN SYMBOL



FILTER FABRIC BURIAL DETAIL

FILTER FABRIC REQUIREMENTS:

- SILT FENCE MUST BE COMPOSED OF WOVEN GEOTEXTILE FILTER FABRIC THAT CONSISTS OF THE FOLLOWING REQUIREMENTS:
 - COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES THAT ARE FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER,
 - FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION,
 - FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES; AND,
 - HAVE A MINIMUM WIDTH OF 36-INCHES.
- USE ONLY FABRIC APPEARING ON SC DOT'S QUALIFIED PRODUCTS LISTING (OPL), APPROVAL SHEET #34, MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SC DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
- FILTER FABRIC SHALL BE PURCHASED IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS.
- FILTER FABRIC SHALL BE INSTALLED AT A MINIMUM OF 24-INCHES ABOVE THE GROUND.

***THIS DETAIL IS BASED ON SC DCHC STANDARD DRAWING NO. SC-07 (FEBRUARY 2014) AND HAS BEEN FORMATTED TO D&F STANDARDS.

SC-07 TYPE A INLET PROTECTION - FILTER FABRIC

N.T.S.

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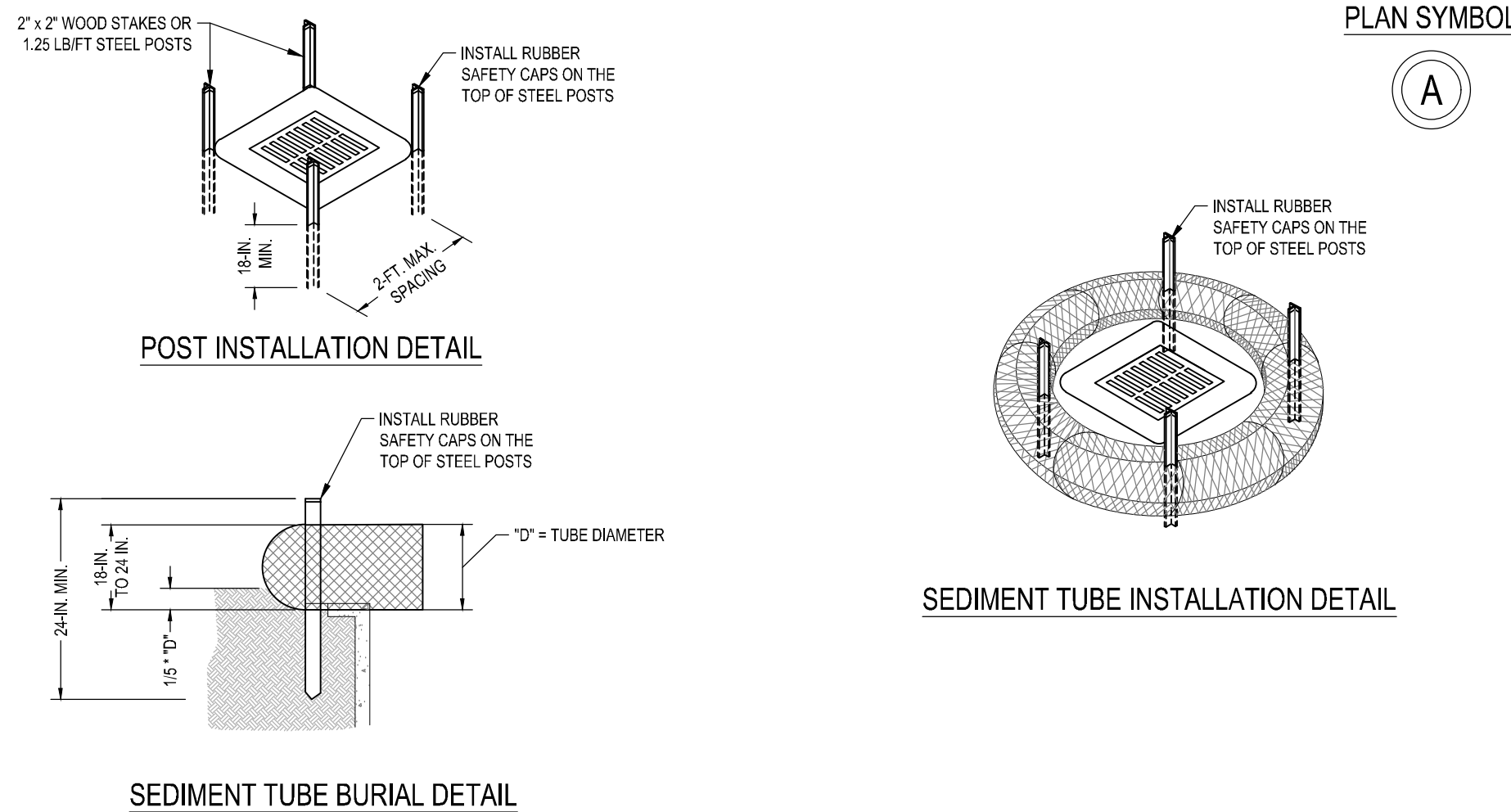
WOOD+PARTNERS
LANDSCAPE ARCHITECTURE
LAND PLANNING

CITY OF BEAUFORT
BEAUFORT, SC 29502

SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

SWPPP DETAILS

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SEDIMENT TUBE BURIAL DETAIL

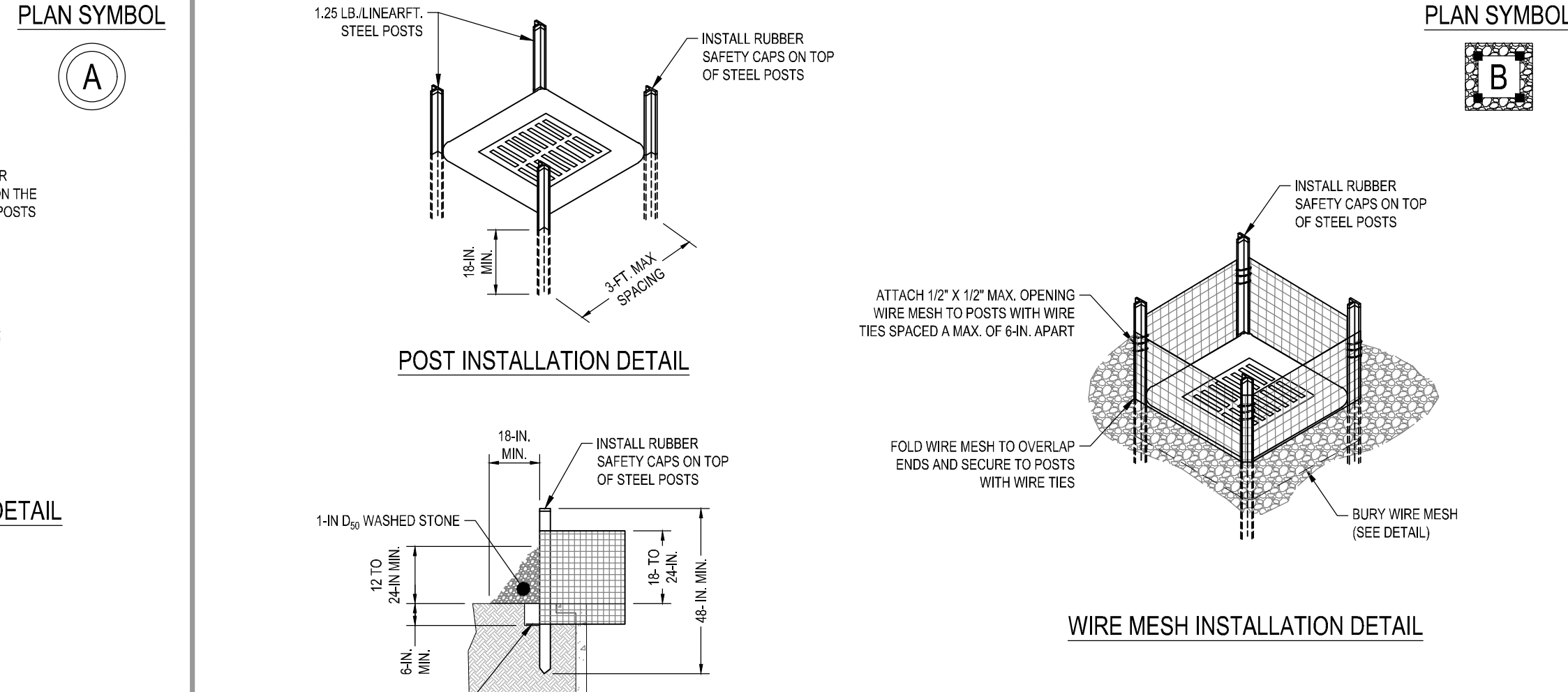
GENERAL NOTES:

- SEDIMENT TUBES ARE ELONGATED TUBES OF COMPACTED GEOTEXTILES, CURLED EXCELSIOR WOOD, NATURAL COCONUT FIBER, OR HARDWOOD MULCH. STRAW, PINE NEEDLE, AND LEAF MULCH-FILLED SEDIMENT TUBES ARE NOT PERMITTED.
- THE OUTER NETTING OF THE SEDIMENT TUBE SHOULD CONSIST OF SEAMLESS, HIGH-DENSITY POLYETHYLENE PHOTODEGRADABLE MATERIALS TREATED WITH ULTRAVIOLET STABILIZERS OR A SEAMLESS, HIGH-DENSITY POLYETHYLENE NON-DEGRADABLE MATERIAL.
- SEDIMENT TUBE DIAMETERS SHALL RANGE FROM 18-INCHES TO 24-INCHES. SEDIMENT TUBES WITH SMALLER DIAMETERS ARE PROHIBITED WHEN USED AS INLET PROTECTION.
- CURLED EXCELSIOR WOOD, OR NATURAL COCONUT PRODUCTS THAT ARE ROLLED UP TO CREATE A SEDIMENT TUBE ARE NOT ALLOWED.
- SEDIMENT TUBES SHOULD BE STAKED USING WOODEN DAK STAKES (2-INCH X 2-INCH) OR STEEL POSTS (STANDARD 1/2" OR 1" SECTIONS WITH A MINIMUM WEIGHT OF 1.25 POUNDS PER FOOT) AT A MINIMUM OF 48-INCHES IN LENGTH PLACED ON 2-FOOT CENTERS.
- INSTALL ALL SEDIMENT TUBES TO ENSURE THAT NO GAPS EXIST BETWEEN THE SOIL AND THE BOTTOM OF THE TUBE. MANUFACTURER'S RECOMMENDATIONS SHOULD ALWAYS BE CONSULTED BEFORE INSTALLATION.
- THE ENDS OF ADJACENT SEDIMENT TUBES SHOULD BE OVERLAPPED 6-INCHES TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT.
- SEDIMENT TUBES SHOULD NOT BE STACKED ON TOP OF ONE ANOTHER.
- EACH SEDIMENT TUBE SHOULD BE INSTALLED IN A TRENCH WITH A DEPTH EQUAL TO 1/5 THE DIAMETER OF THE SEDIMENT TUBE.
- INSTALL STAKES AT A DIAGONAL FACING INCOMING RUNOFF.

**THIS DETAIL IS BASED ON SCOPEC STANDARD DRAWING NO. SC-07 (FEBRUARY 2014) AND HAS BEEN FORMATTED TO D&F STANDARDS.

SC-07 TYPE A INLET PROTECTION - SEDIMENT TUBE

N.T.S.



STONE AND WIRE MESH INSTALLATION DETAIL

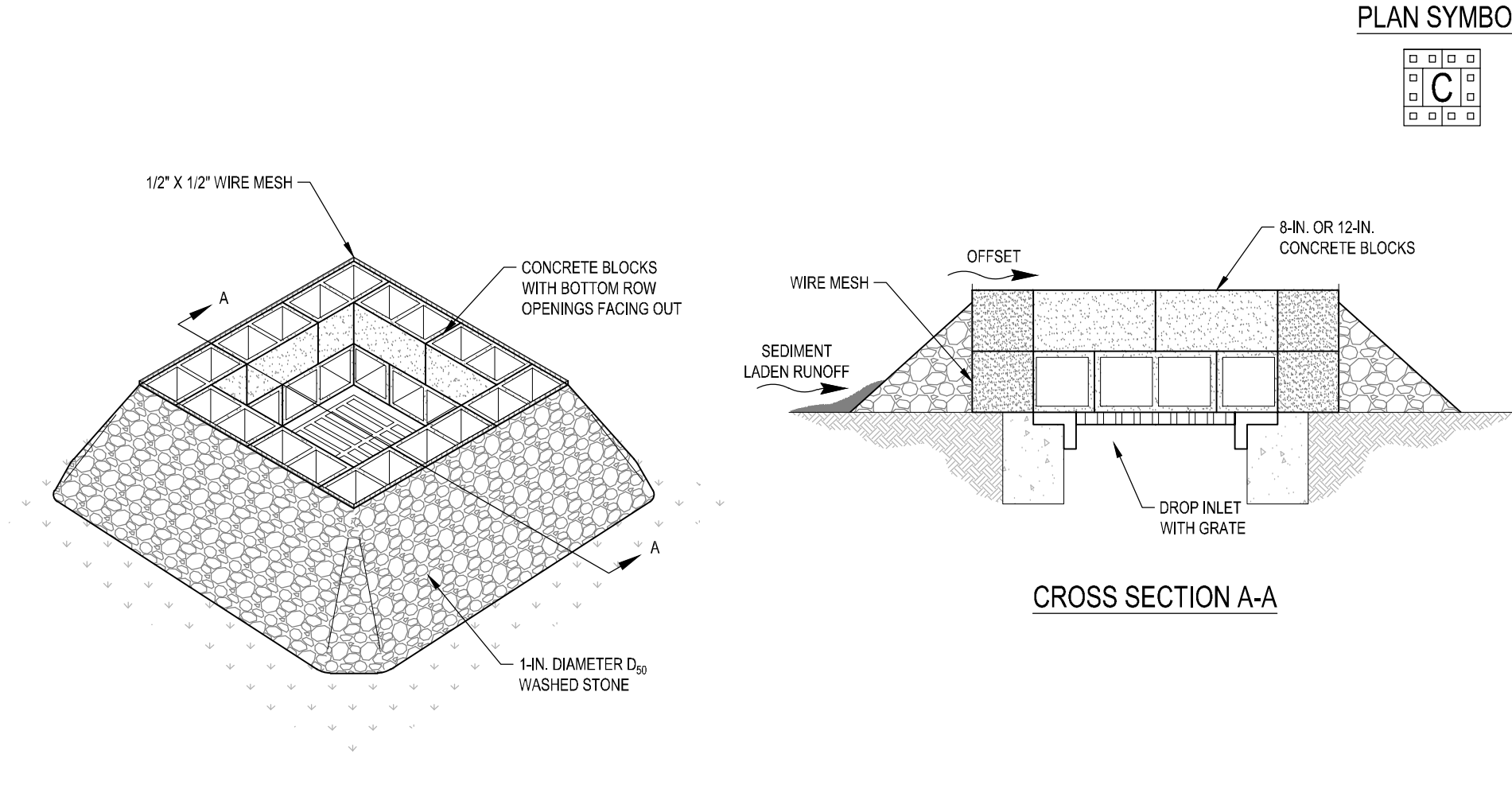
GENERAL NOTES:

- USE HARDWARE FABRIC OR COMPARABLE WIRE MESH WITH MAXIMUM OPENINGS OF 1/2" X 1/2" AS THE SUPPORTING MATERIAL.
- USE STEEL POSTS THAT MEET THE FOLLOWING PHYSICAL REQUIREMENTS:
 - BE COMPOSED OF HIGH STRENGTH STEEL WITH A MINIMUM YIELD OF 50,000 PSI.
 - HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH 1.38 INCHES AND A NOMINAL "T" WIDTH OF 1.48-INCHES.
 - WEIGH 1.25 POUNDS PER FOOT (88#)
- USE HEAVY-DUTY WIRE TIES TO ATTACH THE WIRE MESH MATERIAL TO THE STEEL POSTS.
- SPACE THE STEEL POSTS A MAXIMUM OF 3 FEET APART AROUND THE PERIMETER OF THE INLET AND DRIVE THEM INTO THE GROUND A MINIMUM OF 18-INCHES.
- EXCAVATE A TRENCH 6-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE INLET TO INSTALL WIRE MESH. BACKFILL THE TRENCH WITH SOIL OR CRUSHED STONE AND COMPACT OVER THE WIRE MESH.
- PLACE AGGREGATE NO. 5 WASHED STONE (OR 1-INCH D₅₀ STONE) TO A MINIMUM HEIGHT OF 12-INCHES, AND A MAXIMUM OF 24-INCHES AGAINST THE WIRE MESH ON ALL SIDES.
- INSTALL RUBBER SAFETY CAPS ON TOPS OF STEEL POSTS.

**THIS DETAIL IS BASED ON SCOPEC STANDARD DRAWING NO. SC-08 (FEBRUARY 2014) AND HAS BEEN FORMATTED TO D&F STANDARDS.

SC-08 TYPE B WIRE MESH AND STONE INLET PROTECTION

N.T.S.



CROSS SECTION A-A

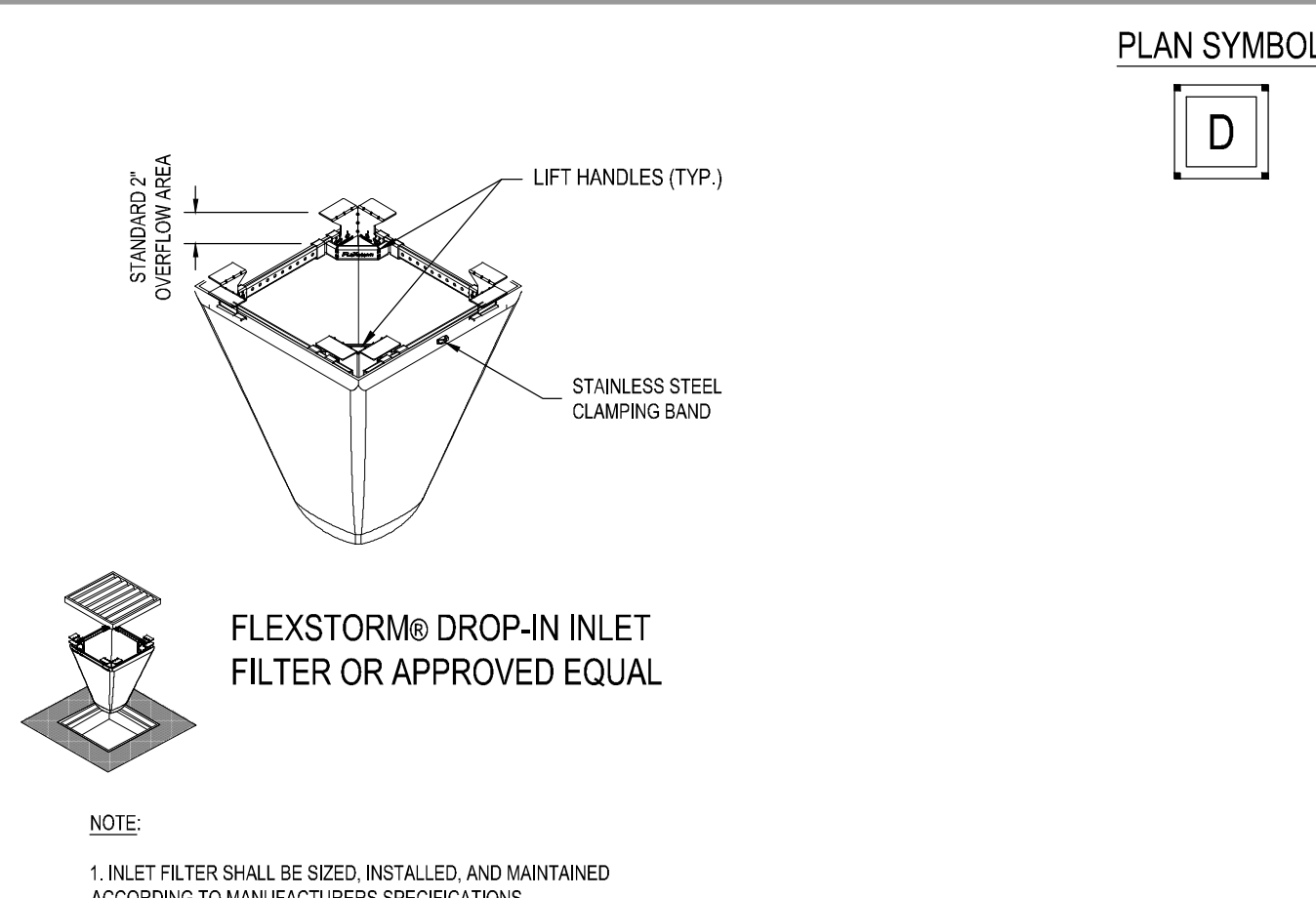
GENERAL NOTES:

- BLOCK AND GRAVEL FILTERS CAN BE USED WHERE HEAVY FLOWS AND HIGHER VELOCITIES ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.
- GRAVEL SHALL CONSIST OF 1-INCH D₅₀ WASHED STONE AND SHOULD EXTEND TO HEIGHT EQUAL TO THE ELEVATION OF THE TOP OF THE BLOCKS.
- THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING UPON DESIGN NEEDS BY STACKING A COMBINATION OF BLOCKS THAT ARE 8- TO 12-INCHES WIDE.
- WIRE MESH SHOULD BE PLACED OVER THE OUTSIDE VERTICAL FACE OF THE CONCRETE BLOCKS TO PREVENT STONES FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHOULD BE USED.

**THIS DETAIL IS BASED ON SCOPEC STANDARD DRAWING NO. SC-09 (FEBRUARY 2014) AND HAS BEEN FORMATTED TO D&F STANDARDS.

SC-09 TYPE C BLOCK & GRAVEL INLET PROTECTION

N.T.S.



FLEXSTORM® DROP-IN INLET FILTER OR APPROVED EQUAL

NOTE:

- INLET FILTER SHALL BE SIZED, INSTALLED, AND MAINTAINED ACCORDING TO MANUFACTURER'S SPECIFICATIONS

OPERATION AND MAINTENANCE PLAN

INSTALLATION INSTRUCTIONS:

- REMOVE THE GRATE FROM THE CASTING OR CONCRETE DRAINAGE STRUCTURE.
- CLEAN THE LEDGE (LIP) OF THE CASTING FRAME OR DRAINAGE STRUCTURE TO ENSURE IT IS FREE OF STONE AND DIRT.
- DROP IN THE FLEXSTORM INLET FILTER THROUGH THE CLEAR OPENING AND BE SURE THE SUSPENSION HANGERS REST FIRMLY ON THE INSIDE LEDGE (LIP) OF THE CASTING.
- REPLACE THE GRATE AND CONFIRM THAT IT IS ELEVATED NO MORE THAN 1/8", WHICH IS THE THICKNESS OF THE STEEL HANGERS.

FREQUENCY OF INSPECTIONS:

- CONSTRUCTION SITE INSPECTION SHALL OCCUR FOLLOWING EVERY RAIN EVENT AND, AT MINIMUM, ONCE EVERY SEVEN (7) CALENDAR DAYS REGARDLESS OF RAINFALL. INSPECTION SHALL ALSO OCCUR AT ANY TIME AT THE DIRECTION OF THE OWNER OR HIS REPRESENTATIVE. ANY DROP-IN FILTER HAVING ACCUMULATED ANY SEDIMENT OR DEBRIS SHALL BE CLEANED IMMEDIATELY AND REINSTALLED.

MAINTENANCE GUIDELINES:

- EMPTY THE SEDIMENT BAG IF MORE THAN HALF FILLED WITH SEDIMENT AND DEBRIS, OR AS DIRECTED BY THE ENGINEER.
- REMOVE THE GRATE, ENGAGE THE LIFTING BARS OR HANDLES WITH THE FLEXSTORM REMOVAL TOOL, AND LIFT FROM THE DRAINAGE STRUCTURE.
- DISPOSE OF THE SEDIMENT OR DEBRIS AS DIRECTED BY THE ENGINEER OR MAINTENANCE CONTRACT IN ACCORDANCE WITH EPA GUIDELINES.
- AS AN ALTERNATIVE, AN INDUSTRIAL VACUUM MAY BE USED TO COLLECT THE ACCUMULATED SEDIMENT.
- REMOVE ANY CAKES ON SILT FROM THE SEDIMENT BAG AND REVERSE FLUSH THE BAG WITH MEDIUM SPRAY FOR OPTIMAL FILTRATION.
- REPLACE THE BAG IF TORN OR PUNCTURED TO 2" DIAMETER OR GREATER ON THE LOWER HALF OF THE BAG.
- POST CONSTRUCTION PC BAGS MAINTENANCE: AT 50% SATURATION, THE AVERAGE 2'x2' ABSORBENT-LINED PC FILTER WILL RETAIN APPROXIMATELY 75 OZ. (4.2 LBS) OF OIL, AND SHOULD BE SERVICED OR REPLACED. IT CAN BE CENTRIFUGED OR PASSED THROUGH A WRINGER TO RECOVER THE OILS, AND THE FABRIC REUSED WITH 85% TO 90% EFFICACY. IT MAY ALSO BE RECYCLED FOR ITS FUEL VALUE THROUGH WASTE TO ENERGY INCINERATION.
- MYCELEX SKIMMER POUCHES: THE SKIMMERS START YELLOW IN COLOR AND WILL GRADUALLY TURN BROWN AS THEY BECOME SATURATED, INDICATING TIME FOR REPLACEMENT. EACH MYCELEX SKIMMER POUCH WILL ABSORB APPROXIMATELY 89 OZ. (5 LBS) OF OIL BEFORE REQUIRING REPLACEMENT.

SEDIMENT BAG REPLACEMENT:

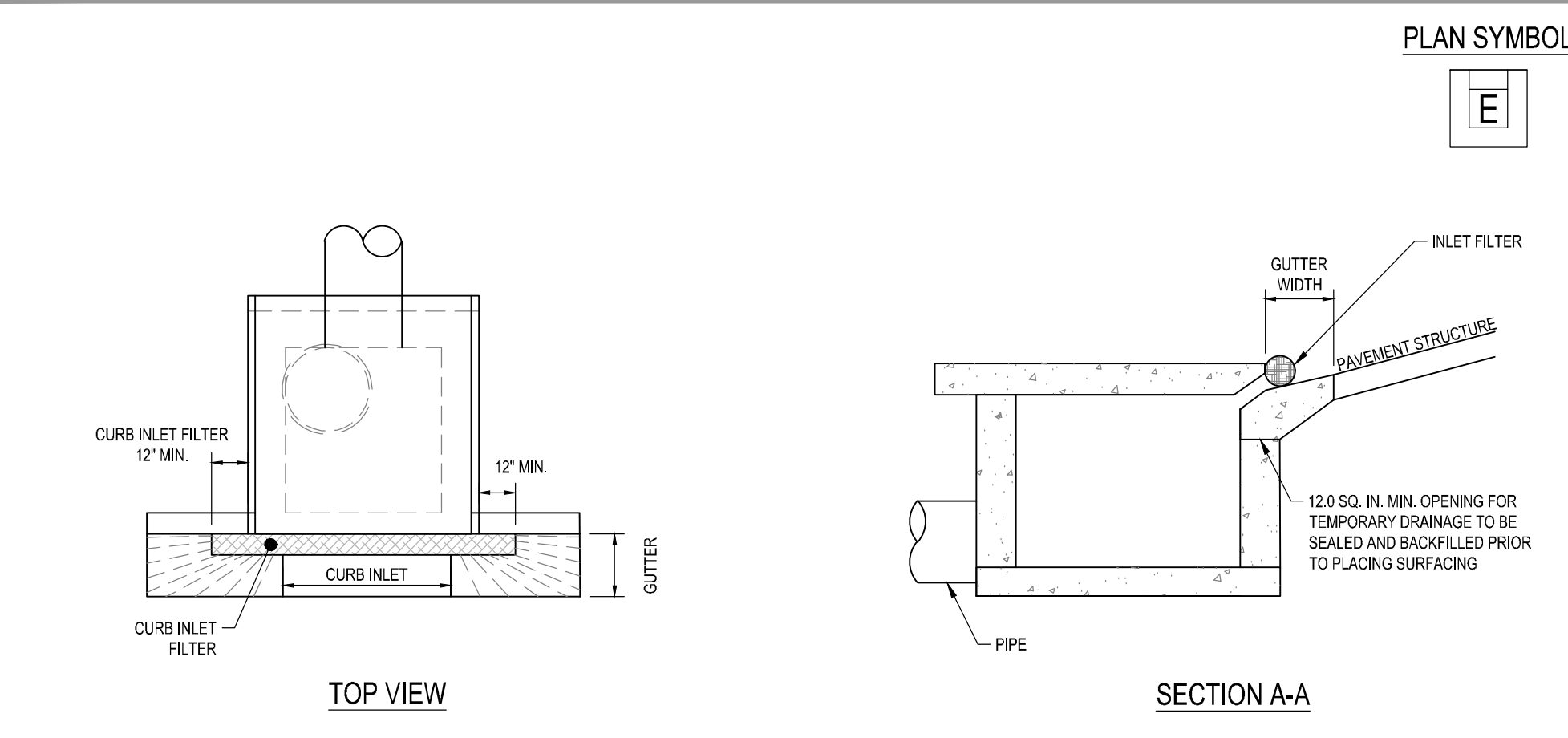
- REMOVE BAG BY LOOSENING OR CUTTING OF THE CLAMPING BAND.
- TAKE THE NEW SEDIMENT BAG, WHICH IS EQUIPPED WITH A STAINLESS STEEL WORM DRIVE CLAMPING BAND, AND USE A SCREWDRIVER TO TIGHTEN THE BAG AROUND THE FRAME CHANNEL.
- ENSURE THE BAG IS SECURE AND THAT THERE IS NO SLACK AROUND THE PERIMETER OF THE BAG.

REMOVAL OF DROP-IN INLET PROTECTION:

- UPON SITE STABILIZATION, FINAL INSPECTION, AND CLOSEOUT, THE CONTRACTOR SHALL REMOVE ALL DROP-IN INLET FILTERS FROM PUBLIC RIGHT-OF-WAYS.

TYPE D DROP-IN INLET PROTECTION

N.T.S.



TOP VIEW

SECTION A-A

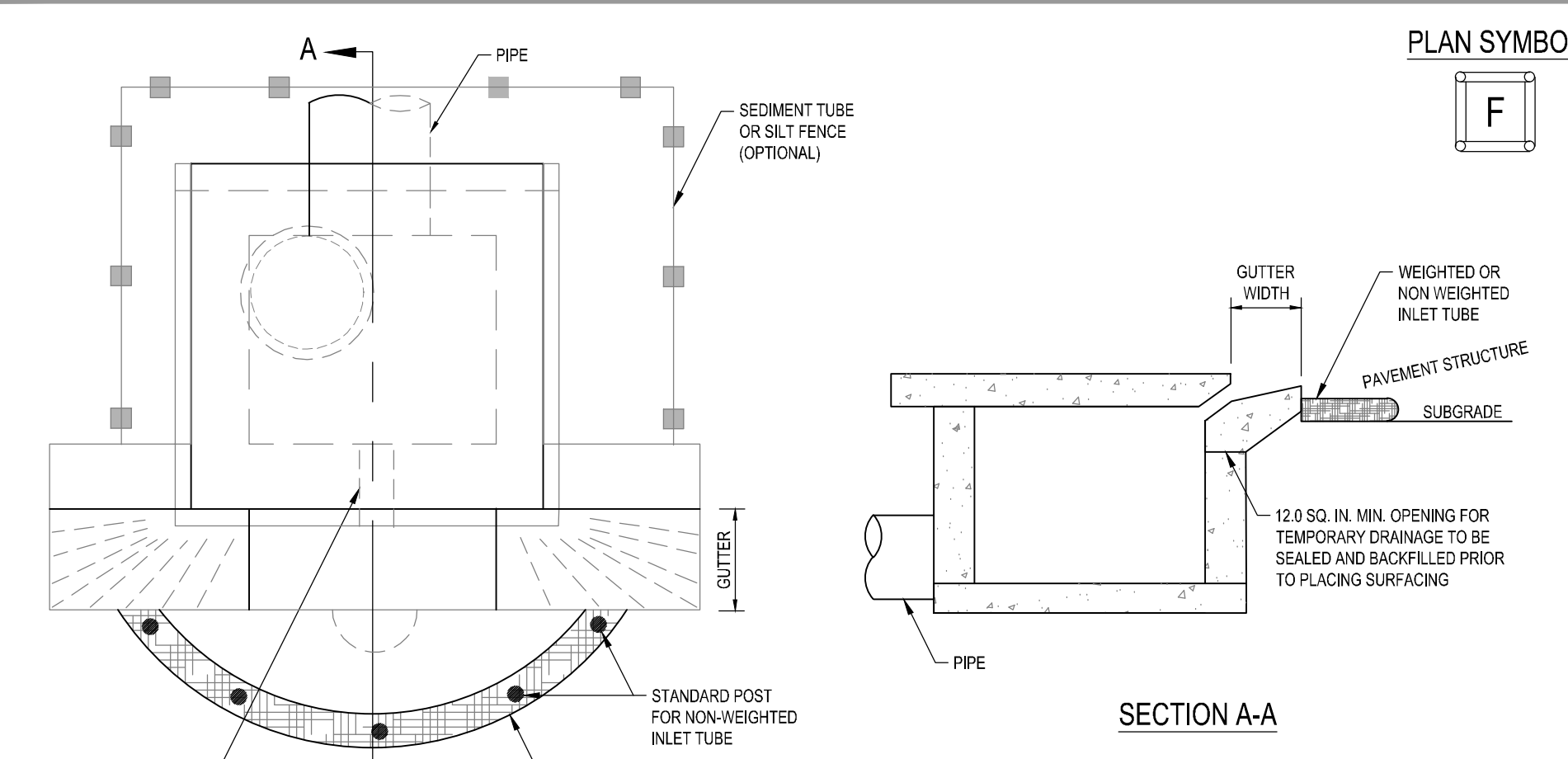
GENERAL NOTES:

- ONLY USE SURFACE CURB INLET FILTERS THAT HAVE A MINIMUM HEIGHT OR DIAMETER OF 6 INCHES AND HAVE A MINIMUM LENGTH THAT IS 2 FEET LONGER THAN THE LENGTH OF THE CURB OPENING.
- SURFACE COURSE INLET FILTERS THAT ARE DESIGNED TO COMPLETELY BLOCK THE INLET OPENING ARE PROHIBITED. ACCEPTABLE INLET FILTERS SHOULD ALLOW FOR OVERFLOWS TO ENTER THE CATCH BASIN.
- SURFACE COURSE INLET FILTERS SHOULD BE CONSTRUCTED WITH A SYNTHETIC MATERIAL THAT WILL ALLOW STORM WATER TO FREELY FLOW THROUGH WHILE TRAPPING SEDIMENT AND DEBRIS.
- STRAW, STRAW FIBER, STRAW BALES, PINE NEEDLES AND LEAF MULCH ARE NOT PERMISSIBLE FILTER MATERIALS.
- EACH FILTER SHOULD HAVE AGGREGATE COMPARTMENTS FOR STONE, SAND, AND OTHER WEIGHTED MATERIALS OR MECHANISMS TO HOLD THE UNIT IN PLACE. FILL AGGREGATE COMPARTMENTS TO A LEVEL (AT LEAST 1/2 FULL) TO HOLD THE FILTER IN PLACE AND CREATE A SEAL BETWEEN THE FILTER AND THE ROAD SURFACE.
- USE ONLY TYPE E INLET FILTERS APPEARING ON SCOTT'S QUALIFIED PRODUCTS LISTING (GPL). APPROVAL SHEET #88. OR FILTERS THAT MEET THE MOST CURRENT EDITION OF THE SCOTT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

**THIS DETAIL IS BASED ON SCOPEC STANDARD DRAWING NO. SC-10 (FEBRUARY 2014) AND HAS BEEN FORMATTED TO D&F STANDARDS.

SC-10 TYPE E INLET PROTECTION

N.T.S.



TOP VIEW

SECTION A-A

GENERAL NOTES:

- INLET TUBES SHOULD BE COMPOSED OF COMPACTED GEOTEXTILES, CURLED EXCELSIOR WOOD, NATURAL COCONUT FIBERS, A HARDWOOD MULCH, OR A MIX OF THESE MATERIALS ENCLOSED BY A FLEXIBLE NETTING MATERIAL.
- INLET TUBES SHOULD UTILIZE AN OUTER NETTING THAT CONSISTS OF SEAMLESS, HIGH-DENSITY POLYETHYLENE PHOTODEGRADABLE MATERIALS TREATED WITH ULTRAVIOLET STABILIZERS OR A SEAMLESS, HIGH-DENSITY POLYETHYLENE NON-DEGRADABLE MATERIAL. CURLED WOOD EXCELSIOR FIBER, OR NATURAL COCONUT FIBER ROLLED EROSION CONTROL PRODUCTS ROLLED UP TO CREATE AN INLET TUBE DESIGN ARE NOT ALLOWED.
- STRAW, STRAW FIBER, STRAW BALES, PINE NEEDLES AND LEAF MULCH ARE NOT PERMISSIBLE FILTER MATERIALS.
- WEIGHTED INLET TUBES MUST BE CAPABLE OF STAYING IN PLACE WITHOUT EXTERNAL STABILIZATION MEASURES AND MAY HAVE A WEIGHTED INNER CORE OR OTHER WEIGHTED MECHANISM TO KEEP THEM IN PLACE.
- INSTALL WEIGHTED TUBES LYING FLAT ON THE GROUND, WITH NO GAPS BETWEEN THE UNDERLYING SURFACE AND THE INLET TUBE. DO NOT STACK INLET TUBES. DO NOT COMPLETELY BLOCK INLET WITH TUBE.
- NON-WEIGHTED INLET TUBES REQUIRE STAKING OR OTHER STABILIZATION METHODS TO KEEP THEM UNOBSTRUCTED.
- TO AVOID POSSIBLE FLOODING, TWO OR THREE CONCRETE CINDER BLOCKS MAY BE PLACED BETWEEN THE TUBE AND THE INLET.

**THIS DETAIL IS BASED ON SCOPEC STANDARD DRAWING NO. SC-11 (FEBRUARY 2014) AND HAS BEEN FORMATTED TO D&F STANDARDS.

SC-11 TYPE F INLET TUBES

N.T.S.

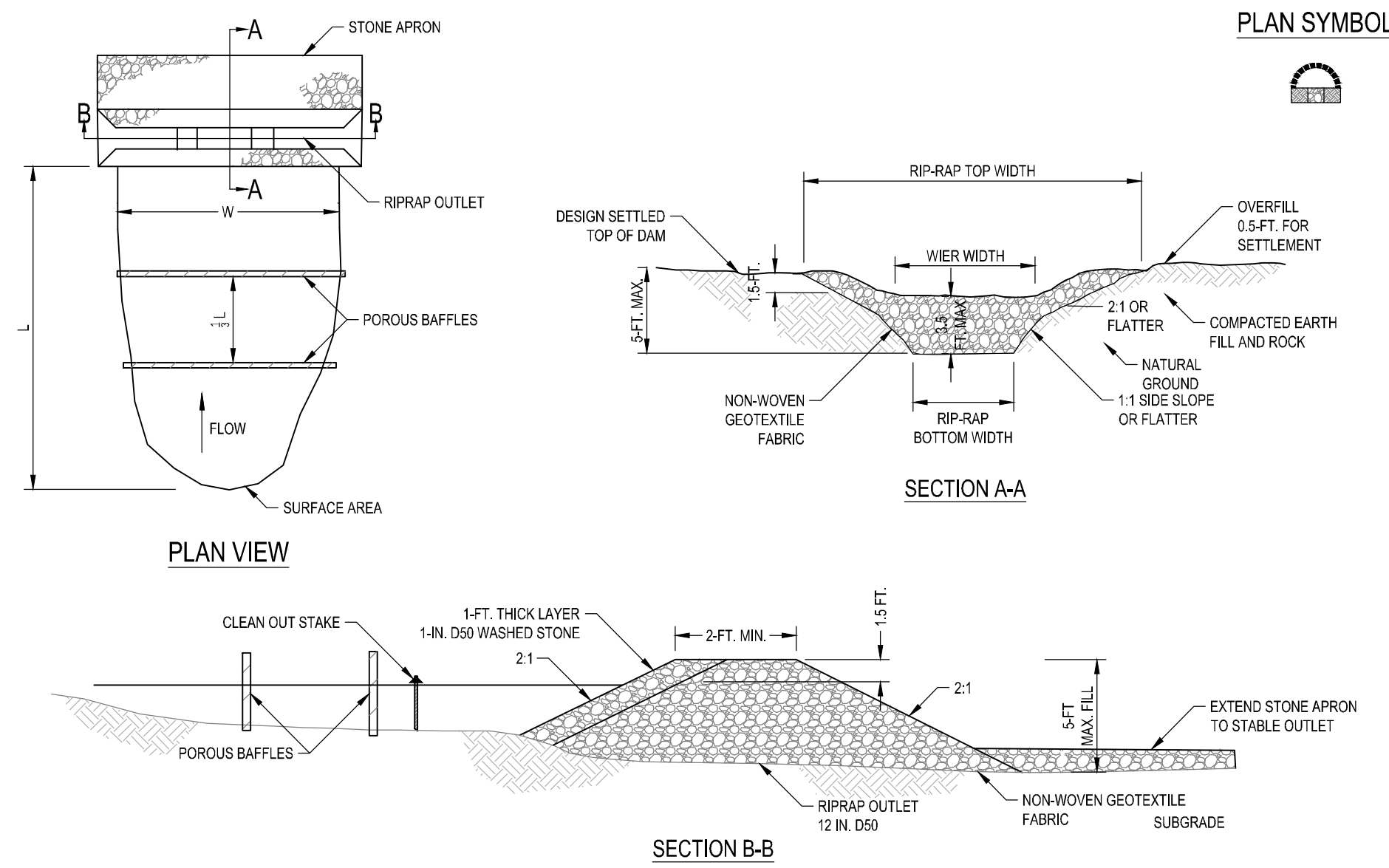
STATE OF SOUTH CAROLINA
DAVIS & FLOYD, INC.
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WOOD+PARTNERS
LANDSCAPE ARCHITECTURE
LAND PLANNING

CITY OF BEAUFORT
BEAUFORT, SC 29502
PROJECT TITLE
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

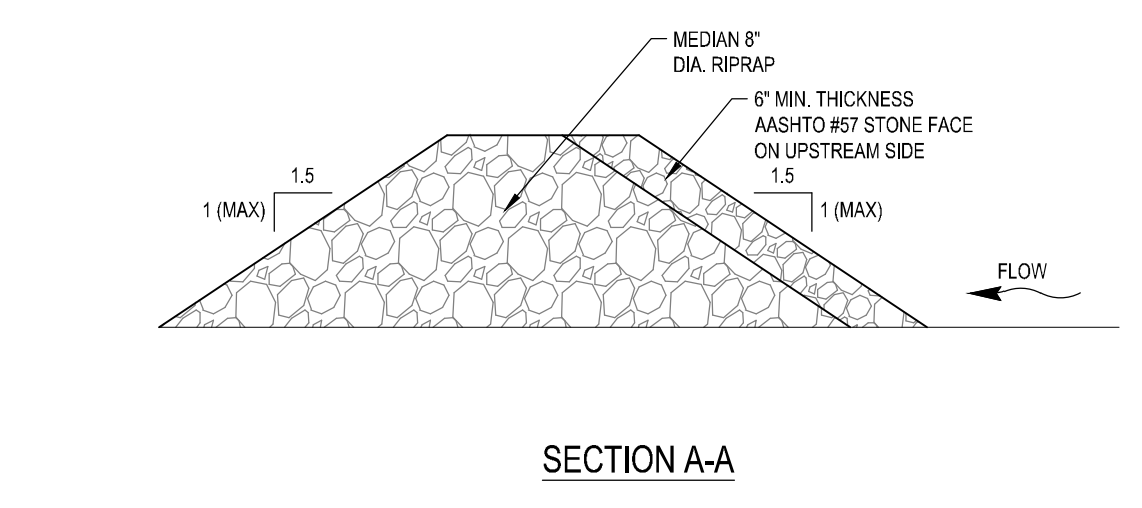
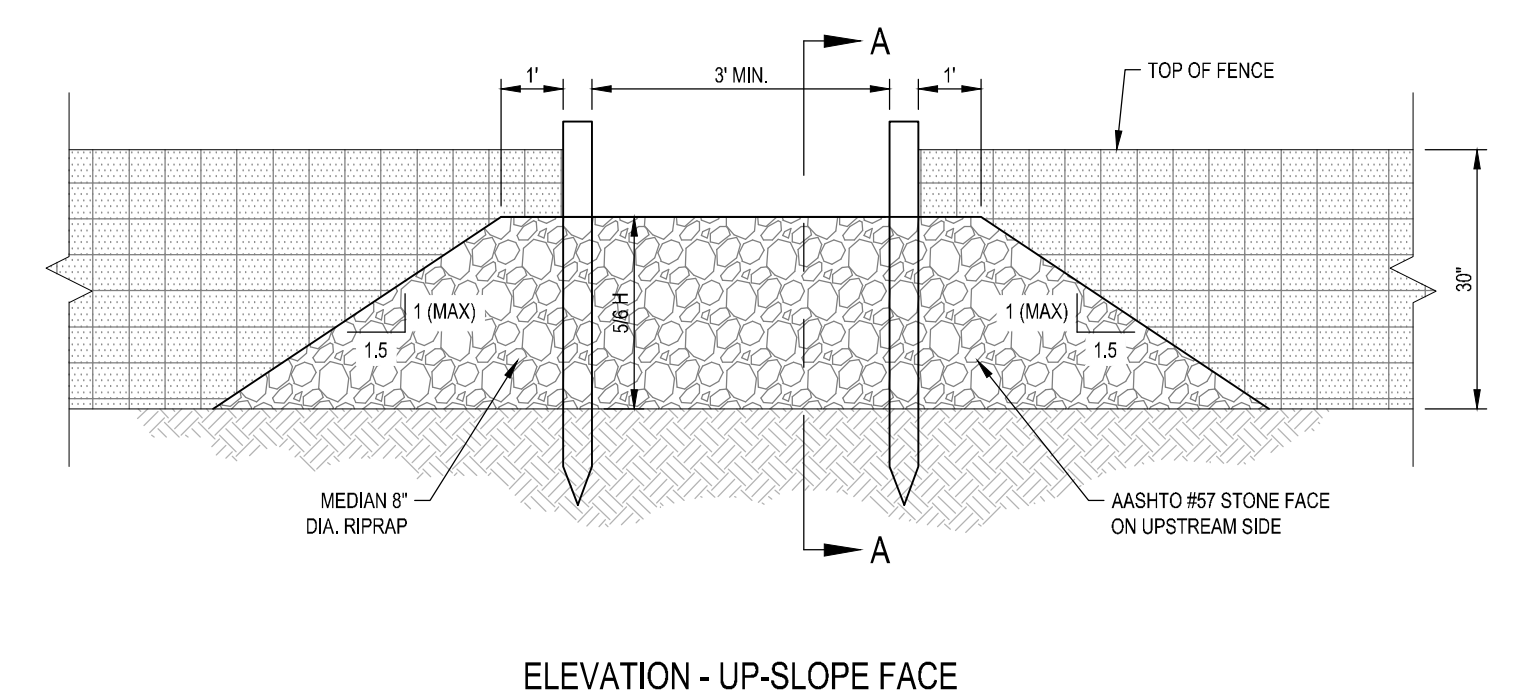
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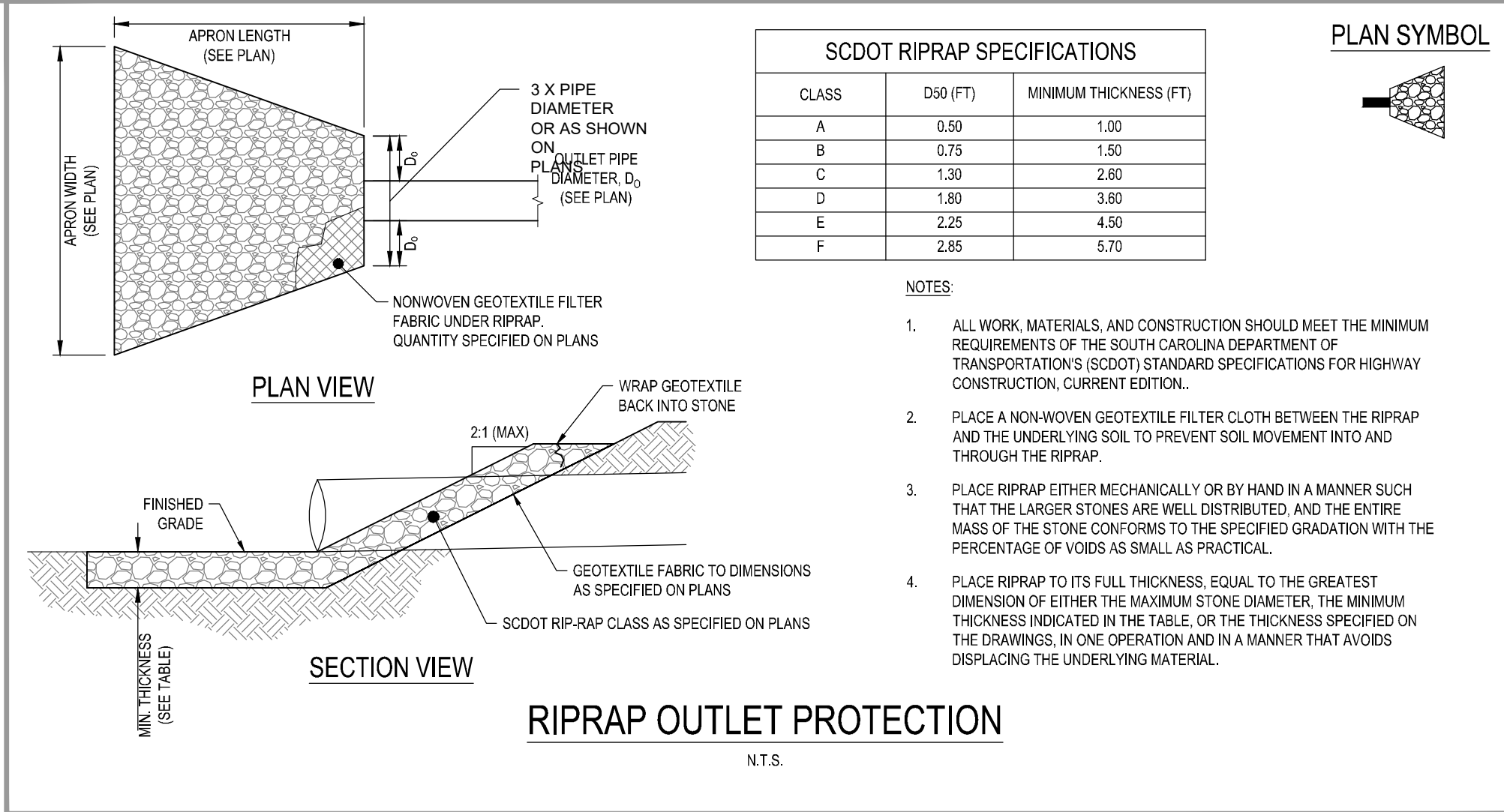
- GENERAL NOTES:**
- SEDIMENT TRAPS SHOULD NOT BE PLACED IN WATERS OF THE STATE OR USGS BLUE-LINE STREAMS (UNLESS APPROVED BY FEDERAL AUTHORITIES).
 - THE ROCK OUTLET STRUCTURE SHALL CONSIST OF 12-INCH D50 RIPRAP. THE UPSTREAM FACE OF THIS OUTLET SHALL CONSIST OF A 1-FOOT THICK LAYER OF 1-INCH D50 WASHED STONE. THE MAXIMUM STEEPNESS OF THE ROCK OUTLET STRUCTURE SHALL BE 2:1.
 - BOTH THE ROCK OUTLET AND THE STONE APRON SHALL HAVE AN UNDERLYING LAYER OF NON-WOVEN GEOTEXTILE FILTER FABRIC.
 - ALL INTERNAL SIDE SLOPES OF THE SEDIMENT TRAP SHOULD BE 3:1 OR FLATTER.
 - A SEDIMENT CLEANOUT STAKE SHOULD BE INSTALLED AND MARKED TO REMOVE SEDIMENT AT 50% OF THE SEDIMENT STORAGE VOLUME.
 - AT LEAST TWO (2) POROUS BAFFLES SHALL BE INSTALLED WITHIN THE SEDIMENT TRAP. THERE SHOULD BE AT LEAST 10 LINEAR FEET BETWEEN EACH BAFFLE AND BETWEEN ANY ROW OF BAFFLES AND ANY OF THE SEDIMENT TRAPS INLET/OUTLETS.
 - AFTER CONSTRUCTION OF EACH SEDIMENT TRAP, THE AREA DISTURBED TO CONSTRUCT THE TRAP SHOULD BE PROMPTLY STABILIZED, INCLUDING ALL SIDE SLOPES.
 - THE FOLLOWING SEDIMENT TRAP REQUIREMENTS SHALL BE MAINTAINED:
 - MAXIMUM EMBANKMENT HEIGHT SHALL BE 5-FEET.
 - MAXIMUM RIPRAP OUTLET HEIGHT SHALL BE 3.5-FEET.
 - MINIMUM WIDTH AT BOTTOM OF RIPRAP OUTLET SHALL BE 3-FEET.
 - MINIMUM FLOW LENGTH AT TOP OF RIPRAP OUTLET SHALL BE 2-FEET.
- INSPECTION AND MAINTENANCE:**
- THE KEY TO A FUNCTIONAL SEDIMENT TRAP IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE AND REGULAR SEDIMENT REMOVAL.
 - ATTENTION TO SEDIMENT ACCUMULATIONS WITHIN THE TRAP IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT DEPOSITION SHOULD BE CONTINUALLY MONITORED IN THE TRAP AND REMOVED WHEN NECESSARY.
 - REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 50% OF THE DESIGNED SEDIMENT STORAGE VOLUME AS MARKED BY THE CLEANOUT STAKE.
 - REMOVED SEDIMENT FROM THE TRAP SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS THE DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
 - REGULAR INSPECTIONS OF SEDIMENT TRAPS SHOULD BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
 - DISTURBED AREAS RESULTING FROM THE REMOVAL OF THE SEDIMENT TRAP SHOULD BE PERMANENTLY STABILIZED AND ADDITIONAL BMPs, SUCH AS SILT FENCE, SHOULD BE UTILIZED TO HANDLE STORMWATER RUNOFF FROM THIS DISTURBED AREA UNTIL FINAL STABILIZATION IS REACHED.
- ***THIS DETAIL IS BASED ON SCDHEC STANDARD DRAWING NO. SC-02 (FEBRUARY 2014) AND HAS BEEN FORMATTED TO D&F STANDARDS.

SC-02 SEDIMENT TRAP
N.T.S.



- NOTES:**
- WASHED STONE (#57) TO BE REMOVED AND REPLACED ONCE IT BECOMES CLOGGED WITH SEDIMENT.
 - SEDIMENT TO BE REMOVED WHEN ACCUMULATIONS REACH 1/3 HEIGHT OF SILT FENCE.
 - THE KEY TO FUNCTIONAL ROCK OUTLETS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

SC-14 SILT FENCE ROCK OUTLET
N.T.S.



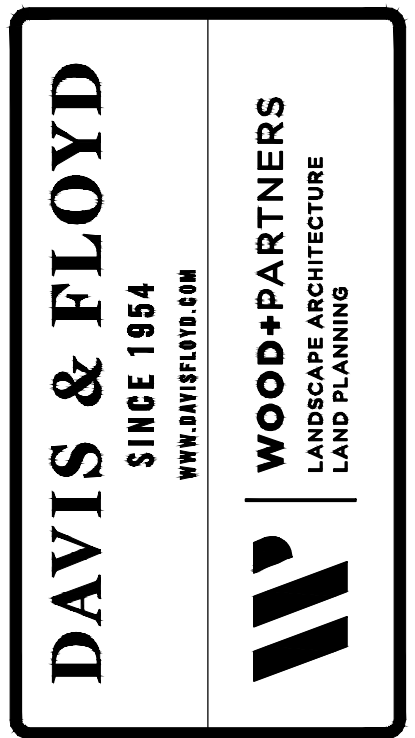
SCDOT RIPRAP SPECIFICATIONS

| CLASS | D50 (FT) | MINIMUM THICKNESS (FT) |
|-------|----------|------------------------|
| A | 0.50 | 1.00 |
| B | 0.75 | 1.50 |
| C | 1.30 | 2.60 |
| D | 1.80 | 3.60 |
| E | 2.25 | 4.50 |
| F | 2.85 | 5.70 |

- NOTES:**
- ALL WORK, MATERIALS, AND CONSTRUCTION SHOULD MEET THE MINIMUM REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION'S (SCDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
 - PLACE A NON-WOVEN GEOTEXTILE FILTER CLOTH BETWEEN THE RIPRAP AND THE UNDERLYING SOIL TO PREVENT SOIL MOVEMENT INTO AND THROUGH THE RIPRAP.
 - PLACE RIPRAP EITHER MECHANICALLY OR BY HAND IN A MANNER SUCH THAT THE LARGER STONES ARE WELL DISTRIBUTED, AND THE ENTIRE MASS OF THE STONE CONFORMS TO THE SPECIFIED GRADATION WITH THE PERCENTAGE OF VOIDS AS SMALL AS PRACTICAL.
 - PLACE RIPRAP TO ITS FULL THICKNESS, EQUAL TO THE GREATEST DIMENSION OF EITHER THE MAXIMUM STONE DIAMETER, THE MINIMUM THICKNESS INDICATED IN THE TABLE, OR THE THICKNESS SPECIFIED ON THE DRAWINGS, IN ONE OPERATION AND IN A MANNER THAT AVOIDS DISPLACING THE UNDERLYING MATERIAL.

RIPRAP OUTLET PROTECTION
N.T.S.

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SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

SWPPP DETAILS

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| 2 | 10/15/2023 | ISSUE FOR BIDDING | 10/15/2023 | SRW | SRW |

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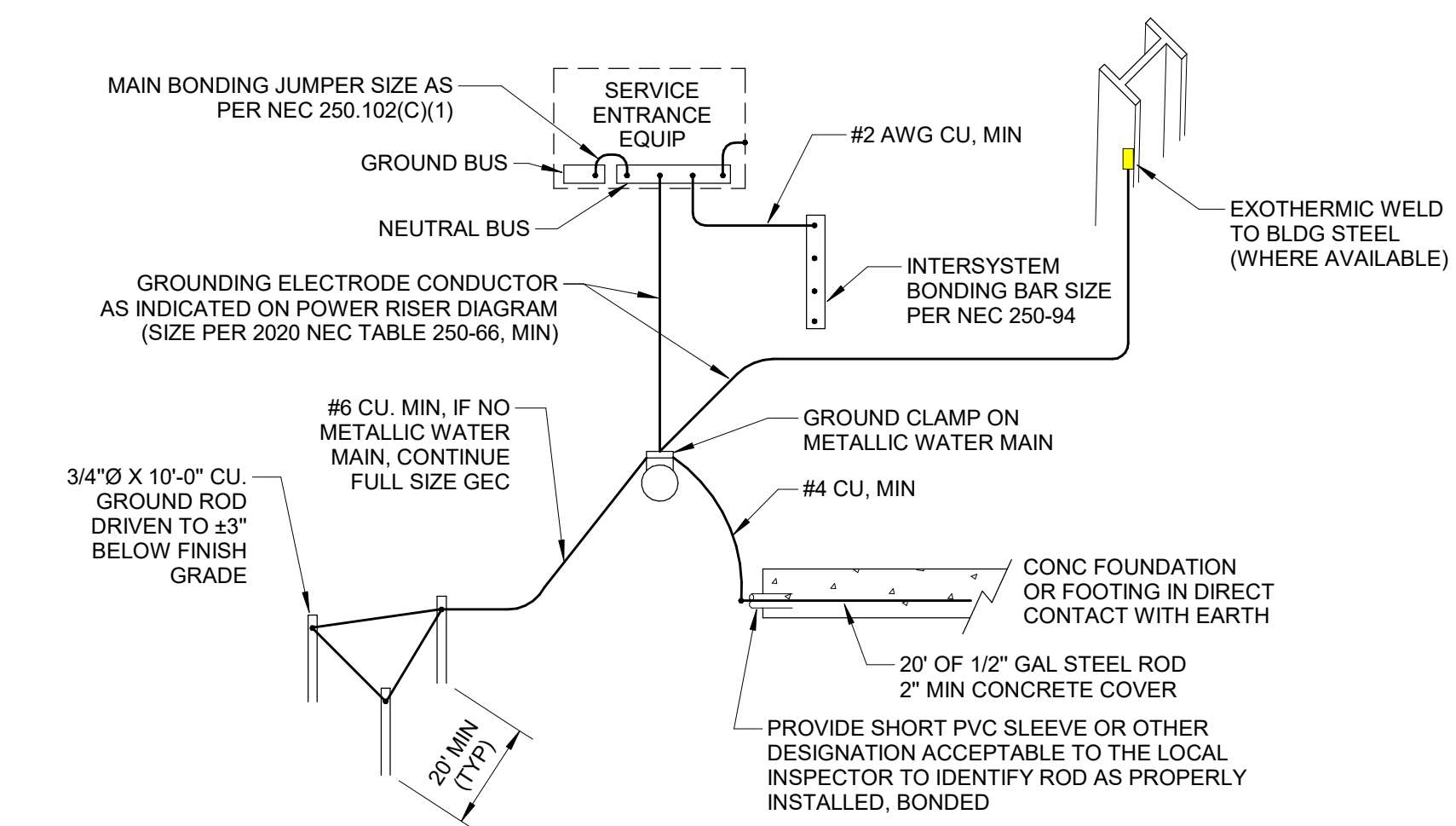
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PAGE 33 OF 33

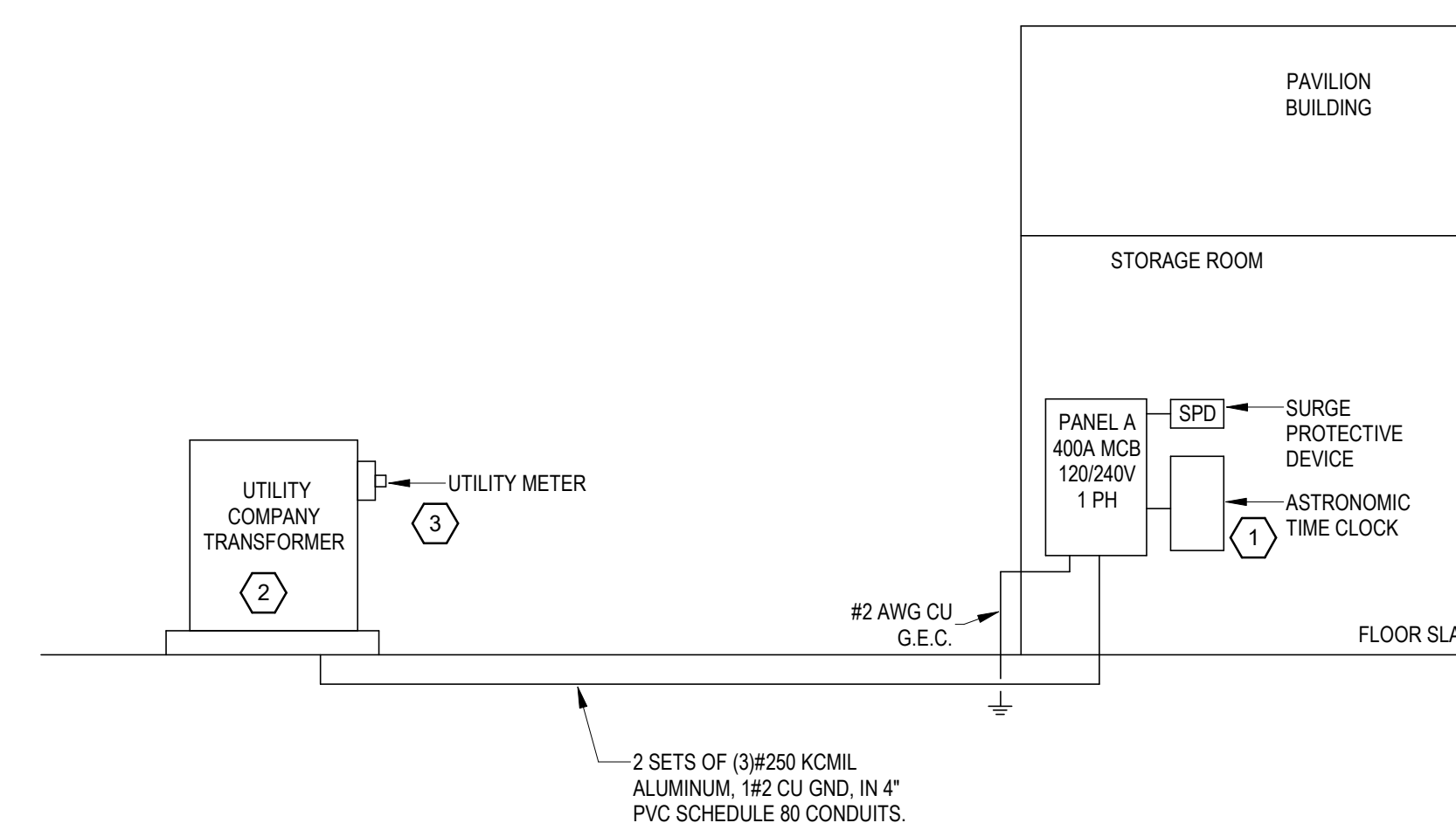
| LIGHTING FIXTURE SCHEDULE | | | | | | | | |
|---------------------------|------------------|----------------------------------|-----------|------|-------|---------------|---|---|
| MARK | MANUFACTURER | CATALOG NUMBER | LAMP DATA | | VOLTS | FIXTURE WATTS | MOUNTING | DESCRIPTION |
| | | | # | TYPE | | | | |
| F | VISION3 LIGHTING | FL17A-BL-3000K-143- | 1 | LED | 240 V | 20 W | GROUND MOUNTED, AIM AT SIGNAGE | OUTDOOR GROUND MOUNTED UP LIGHT LOW VOLTAGE VISION3 LED FLOOD LIGHT, 3000K CCT, BLACK FINISH, UL LISTED WET LOCATION, PROVIDE STEP DOWN TRANSFORMER |
| P1 | ACUITY HOLOPHANE | PUCL3-P50-30K-MVOLT-FC3-BK-NF-AO | 1 | LED | 240 V | 81 W | 14 FT CHARLESTON POST WITH DUPLEX RECEPTACLE PROVISION IN SHAFT, CHA-14-F4J-16D-BK-RXXXYY | UTILITY TAFT SERIES LUMINAIRE TYPE-3 FULLCUTOFF LED. HEAVY DUTY CAST ALUMINUM. IP65 RATED. 3000K. ADJUSTABLE OUTPUT. |
| P2 | ACUITY HOLOPHANE | PUCL3-P50-30K-MVOLT-FC4-BK-NF-AO | 1 | LED | 240 V | 81 W | 14 FT CHARLESTON POST WITH DUPLEX RECEPTACLE PROVISION IN SHAFT, CHA-14-F4J-16D-BK-RXXXYY | UTILITY TAFT SERIES LUMINAIRE TYPE-4 FULLCUTOFF LED. HEAVY DUTY CAST ALUMINUM. IP65 RATED. 3000K. ADJUSTABLE OUTPUT. |
| P3 | ACUITY HOLOPHANE | PUCL3-P50-30K-MVOLT-FC2-BK-NF-AO | 1 | LED | 240 V | 81 W | 14 FT CHARLESTON POST WITH DUPLEX RECEPTACLE PROVISION IN SHAFT, CHA-14-F4J-16D-BK-RXXXYY | UTILITY TAFT SERIES LUMINAIRE TYPE-3 FULLCUTOFF LED. HEAVY DUTY CAST ALUMINUM. IP65 RATED. 3000K. ADJUSTABLE OUTPUT. |

KEY NOTES:

- 1 ASTRONOMIC 365-DAY 12-CIRCUIT ELECTRONIC CONTROL. 120-277 VAC, 50/60 HZ, 4-SPDT/2-DPDT, METAL ENCLOSURE, ETHERNET INCLUDED, 90000 SERIES, MODEL#ET91215CR BY INTERMATIC. SITE LIGHTING CIRCUITS AND MOTORIZED GATE SHALL BE CONNECTED VIA TIME CLOCK AND PROGRAMMED PER OWNER'S REQUEST.
- 2 COORDINATE EXACT LOCATION OF UTILITY PAD MOUNTED TRANSFORMER, FEEDING THE PANEL INSIDE THE PAVILION BUILDING AND SITE LIGHTING, WITH THE UTILITY COMPANY. REFER TO SINGLE LINE DIAGRAM ON SHEET E0.2 FOR DETAILS. COORDINATE ALL WORK WITH THE UTILITY COMPANY AS REQUIRED.
- 3 MOUNT UTILITY METER TO THE SIDE OF THE TRANSFORMER OR PROVIDE UNISTRUT AS REQUIRED TO MOUNT THE UTILITY METER. COORDINATE LOCATION OF UTILITY METER WITH THE UTILITY COMPANY.

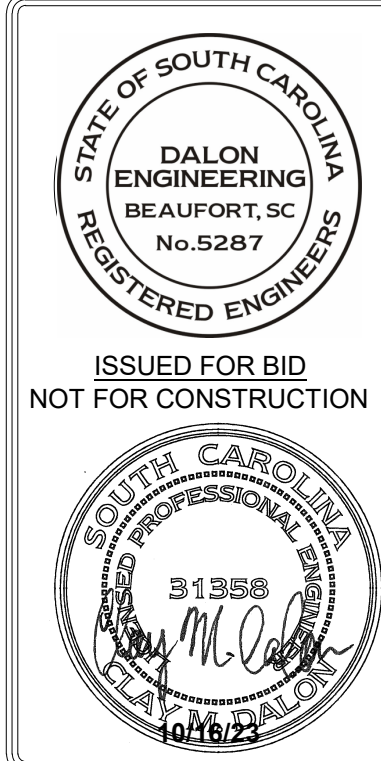


2 GROUNDING DETAIL
SCALE: NTS



1 ELECTRICAL RISER DIAGRAM
SCALE: NTS

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OWNER: CITY OF BEAUFORT
 BEAUFORT, SC 29902
 PROJECT TITLE: SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

NOTES, SCHEDULES, & ABBREVIATIONS

| NO. | DATE | CHANGED | RELEASED |
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JOB NO: 032024.00
 DATE: 10/16/23
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\1927.088.1.140\Dalton Engineering\Projects\2023\121 Southside Park\PF3 Design Drawings\Architectural\23-121 Southside Park\PF3 Title Block.dwg, 9/12/2023 2:46:52 PM, owner
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GENERAL NOTES:

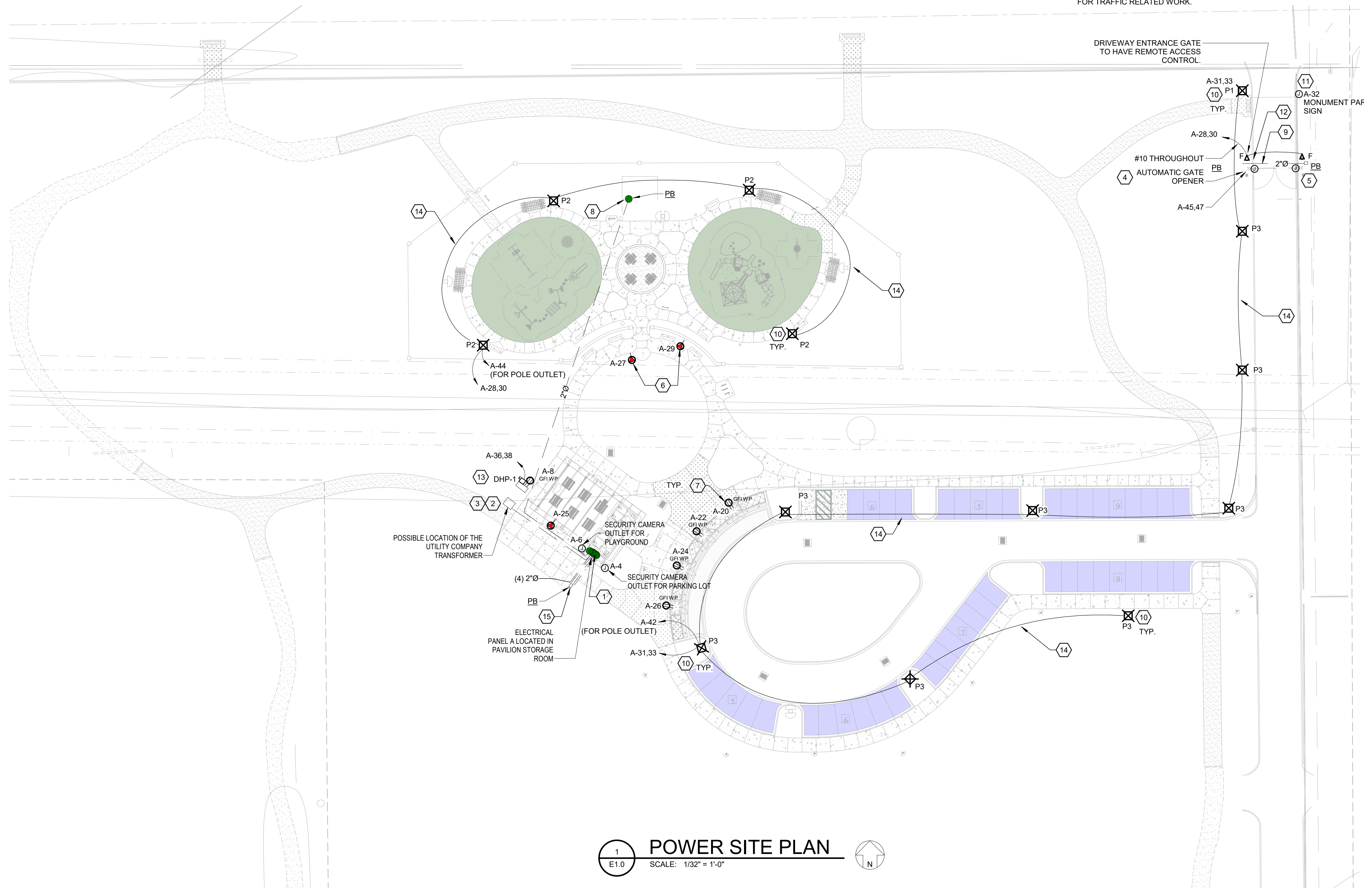
- ALL STREET LIGHTING SHALL BE DONE IN ACCORDANCE WITH SOUTH CAROLINA DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. SC DOT SUPPLEMENTAL SPECIFICATION - ROADWAY LIGHTING, AND NATIONAL ELECTRIC SAFETY CODE.
- CONTRACTOR SHALL BE AWARE OF OVERHEAD POWER LINES DURING CONSTRUCTION.
- CONDUIT ACCESSORIES SUCH AS EXPANSION JOINTS, ELBOWS, LB'S, FLEXIBLE CONDUIT, ETC SHALL BE INCLUDED IN THE PRICE TO BID FOR CONSTRUCTION.
- LUMINAIRE MANUFACTURER SHALL PROVIDE A TEN YEAR WRITTEN WARRANTY FOR PARTS AND DEFECTIVE WORKMANSHIP OF LUMINARIES.
- ALL PITS USED FOR INSTALLED (JACKED) CASING UNDER EXISTING ROADWAYS SHALL HAVE A MINIMUM OF FIVE FEET BETWEEN EDGE OF SHOULDER. LOCATIONS SHOWN ARE APPROXIMATE AND MAY NEED TO SHIFT TO MEET CLEARANCE REQUIREMENTS. CONTRACTOR SHALL FOLLOW SCDOT STANDARD DRAWINGS AND SCDOT REQUIREMENTS FOR TRAFFIC RELATED WORK.

GENERAL NOTES:

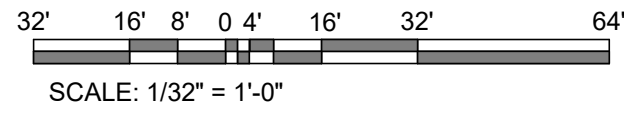
- ALL ELECTRICAL CONNECTIONS SHALL BE MADE ABOVE GRADE INSIDE POLE BASES OR JUNCTION BOXES. NO UNDERGROUND SPLICING IS ALLOWED.
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.
- UTILIZE MINIMUM #10 AWG IN 1" PVC CONDUIT FOR ALL SITE LIGHTING AND RECEPTACLE OUTLETS, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL RUN VOLTAGE DROP CALCULATION FOR EACH CIRCUIT AFTER ROUTING OF EACH UNDERGROUND CIRCUIT AND CONDUIT IS DETERMINED. MAXIMUM VOLTAGE DROP ON IS 3%.
- A STRUCTURAL ENGINEER SHALL REVIEW THE LIGHT POLE'S MANUFACTURER DATA SHEET AND DESIGN A POLE BASE AND MOUNTING DETAIL IF REQUIRED PRIOR TO PURCHASING.
- CONNECT ALL LIGHTING CIRCUITS AND THE MOTORIZED GATE VIA ASTRONOMICAL TIME CLOCK.
- ALL EXTERIOR LIGHT FIXTURE FOR THE PROJECT SHALL BE 3000K COLOR TEMPERATURE, NO EXCEPTIONS.
- CONTRACTOR SHALL STAKE OUT LOCATION OF THE SITE LIGHT FIXTURES AND RECEIVE OWNER'S APPROVAL PRIOR TO INSTALLATION OF FIXTURES.
- CONTRACTOR SHALL PROVIDE REMOTE STEP-DOWN TRANSFORMER, ELECTRONIC OR MAGNETIC, FOR ALL LOW VOLTAGE FIXTURES, COMPATIBLE WITH THE LIGHT FIXTURE.
- THE SITE ELECTRICAL CONTRACTOR WILL COORDINATE THE INSTALLATION OF UNDERGROUND PVC CONDUITS FOR SECURITY CAMERAS AND GATE ACCESS CONTROL SYSTEM WITH THE IT & SECURITY SYSTEM CONTRACTORS. SEE SHEET E1.1 FOR ADDITIONAL INFORMATION.

KEYNOTES:

- 400A, 120/240V PANEL. REFER TO PANEL SCHEDULE PROVIDE IN PAVILION UPLIFT PLAN SET ON SHEET ED.2. COORDINATE PANEL AIC RATING WITH UTILITY COMPANY PRIOR TO PURCHASE.
- COORDINATE EXACT LOCATION OF UTILITY PAD MOUNTED TRANSFORMER, FEEDING THE PANEL INSIDE THE PAVILION BUILDING AND SITE LIGHTING, WITH THE UTILITY COMPANY. REFER TO SINGLE LINE DIAGRAM ON SHEET ED.2 FOR DETAILS. COORDINATE ALL WORK WITH THE UTILITY COMPANY AS REQUIRED.
- MOUNT UTILITY METER TO THE SIDE OF THE TRANSFORMER OR PROVIDE UNISTRUT AS REQUIRED TO MOUNT THE UTILITY METER. COORDINATE LOCATION OF UTILITY METER WITH THE UTILITY COMPANY.
- PROVIDE INDUSTRIAL GRADE, HARD WIRED, DUAL SWING GATE OPERATED OPENERS FOR ENTRY GATE LEAFS. SYSTEM SHALL INCLUDE ASTRONOMICAL TIME CLOCK, APPROPRIATE MOUNTING HARDWARE AND ADEQUATE HORSEPOWER TO OPERATE MOTOR SUPPORTING THE WEIGHT OF EACH GATE LEAF. INCLUDE BURIED PAVEMENT LOOP DETECTOR TO ALLOW VEHICLES TO EXIT IF GATES ARE CLOSED. PROVIDE +/- 42" HEIGHT BLACK POWDER COATED HEAVY DUTY STEEL PEDESTAL MOUNTED KEYPAD OVERRIDE FOR OPENING/CLOSING GATES AFTER HOURS. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS FOR OWNER APPROVAL IN ADVANCE OF PURCHASE/INSTALLATION AND SHALL INSURE THAT THE SYSTEM IS DESIGNED AND GROUNDED TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES. COORDINATE CONNECTION OF GATE CONTROLLER TO SECURITY DATA CONNECTION FOR REMOTE MONITORING AND ACCESS CONTROL. COMMERCIAL KNOX BOX AT GATE POST FOR EMERGENCY SERVICES. BASIS OF DESIGN: DOORING MODEL# DKS-6300, 1/2 HP, 240V / 2.7A, MAX GATE WEIGHT 700 LB.
- PROVIDE JUNCTION BOXES FOR CONNECTION TO THE MOTORIZED GATES. COORDINATE MOUNTING OF RECEIVER, JUNCTION BOXES, POWER REQUIREMENTS AND CONNECTIONS WITH THE EQUIPMENT MANUFACTURER. RECEIVER TO BE MOUNTED USING INCONSPICUOUS MEANS. METHOD AND LOCATION TO BE COORDINATED WITH AND APPROVED BY OWNER.
- PROVIDE POWER PEDESTAL FOR PARK EVENTS. GE MODEL # GE1LU032ES RV EQUIP 120V, 30/20A, GFCI RECEPTACLE, CIRCUIT BREAKERS, UNMETERED, SINGLE SIDED, WITH EARTH BURIAL PEDESTAL.
- PROVIDE POWER PEDESTAL WITH WEATHERPROOF DUPLEX RECEPTACLE LOCATED BEHIND PALM TREE FOR FOOD TRUCK, TYP.4.
- PROVIDE EMPTY 2" SCH 80 PVC CONDUIT U/G WITH PULLSTRING. ROUTE CONDUIT FROM PULLBOX AT FUTURE SHELTER LOCATION AND STUB INTO PAVILION STORAGE ROOM FOR FUTURE CONNECTION.
- 2" SCH 80 PVC CONDUIT WITH 2 #4 AND 1 #8 GND, PULLED IN 4" CASING (STEEL OR HDPE), DIRECTIONALLY BORED ACROSS EXISTING PAVED ENTRY ROAD.
- THE EXTERIOR LIGHT SHALL BE OPERATED ON ASTRONOMICAL TIME CLOCK.
- PROVIDE JUNCTION BOX FOR THE MONUMENT SIGN. SIGN POWER SHALL BE OPERATED ON ASTRONOMICAL TIME CLOCK.
- PROVIDE KNOX BOX AND CLICK TO ENTER GATE CONTROLLER HERE FOR EMERGENCY PARK GATE ACCESS.
- OUTDOOR HEAT PUMP FOR PAVILION BUILDING. COORDINATE INSTALLATION WITH UTILITY COMPANY AND PROVIDE MINIMUM CLEARANCE REQUIRED FOR THE TRANSFORMER. PROVIDE PVC CONDUIT TO ROUTE REFRIGERANT LINE SETS UNDERGROUND TO THE INDOOR AIR HANDLING UNIT. SEE PAVILION UPLIFT PLANS AND EQUIPMENT DETAILS FOR ADDITIONAL INFORMATION.
- 2" SCH 80 PVC CONDUIT WITH 2 #4 AND 1 #8 GND FOR LIGHTING CIRCUIT. ALSO, PROVIDE 2#4 AND 1#8 GND IN CONDUIT FOR WEATHERPROOF GFI CONVENIENCE RECEPTACLE LOCATE INSIDE THE BASE OF EACH LIGHT POLE. REDUCE WIRE GAUGE SIZE INSIDE POLE BASE. JUNCTION BOX FOR CONNECTION TO CONVENIENCE RECEPTACLE TERMINALS, AS REQUIRED.
- PROVIDE (4) EMPTY 2" SCH 40 PVC CONDUITS U/G WITH PULLSTRING. ROUTE CONDUITS FROM 12X12X18 HAND HOLE PULLBOX (ANSI TIER 15 RATING) LOCATED OUTSIDE THE CONCRETE SIDEWALK IN THE LANDSCAPE FOR FUTURE SITE POWER. STUB EMPTY CONDUITS INSIDE THE PAVILION STORAGE ROOM FOR FUTURE SITE POWER CONNECTION.



1 POWER SITE PLAN
 SCALE: 1/32" = 1'-0"



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 LAND PLANNING

OWNER: CITY OF BEAUFORT
 PROJECT SITE: BEAUFORT, SC 29902
 PROJECT TITLE: SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

ELECTRICAL SITE PLAN

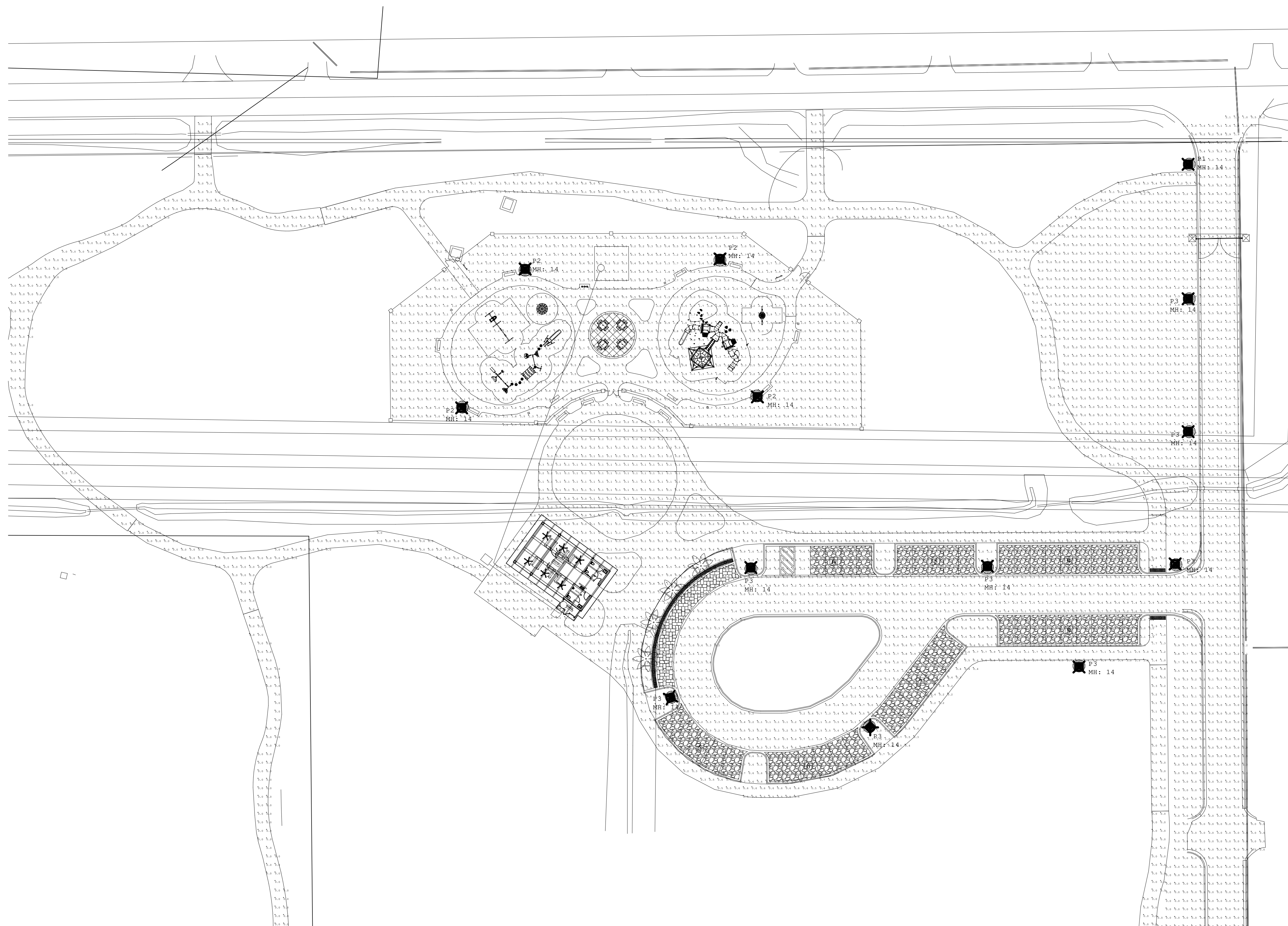
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| 2 | 10/16/23 | 100% SUBMITTAL - ISSUED FOR BID | CMD | 10/16/23 |

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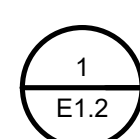
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| 2 | 10/16/23 | 100% SUBMITTAL - ISSUED FOR BID | CMD | 10/16/23 |

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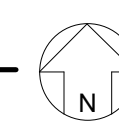
| Luminaire Schedule | | | | | |
|--------------------|-----|-----|-------------|-------|----------------------------------|
| Symbol | Tag | Qty | Arrangement | LLF | Description |
| ● | P1 | 1 | SINGLE | 1.000 | PUCL3-P50-30K-MVOLT-FC3-BK-NF-AO |
| ● | P3 | 8 | SINGLE | 1.000 | PUCL3 P50 30K MVOLT FC2 |
| ● | P2 | 4 | SINGLE | 1.000 | PUCL3-P50-30K-MVOLT-FC4-BK-NF-AO |

| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|------|-----|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Road Way | Illuminance | Fc | 1.25 | 5.6 | 0.0 | N.A. | N.A. |
| Small Garden | Illuminance | Fc | 1.12 | 2.8 | 0.0 | N.A. | N.A. |
| Walkway | Illuminance | Fc | 0.25 | 5.1 | 0.0 | N.A. | N.A. |



PHOTOMETRIC SITE PLAN

SCALE: 1/32" = 1'-0"



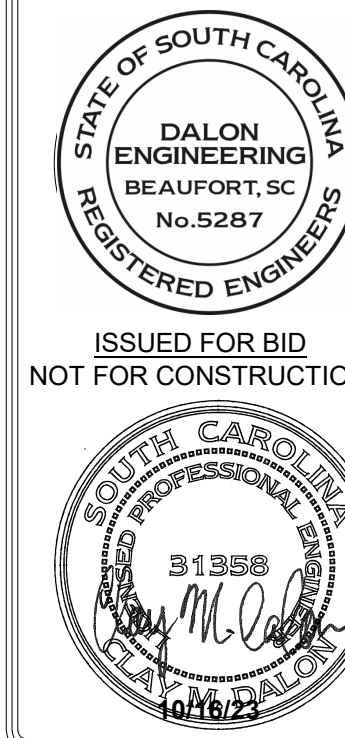
32' 16' 8' 0' 4' 16' 32' 64'
SCALE: 1/32" = 1'-0"



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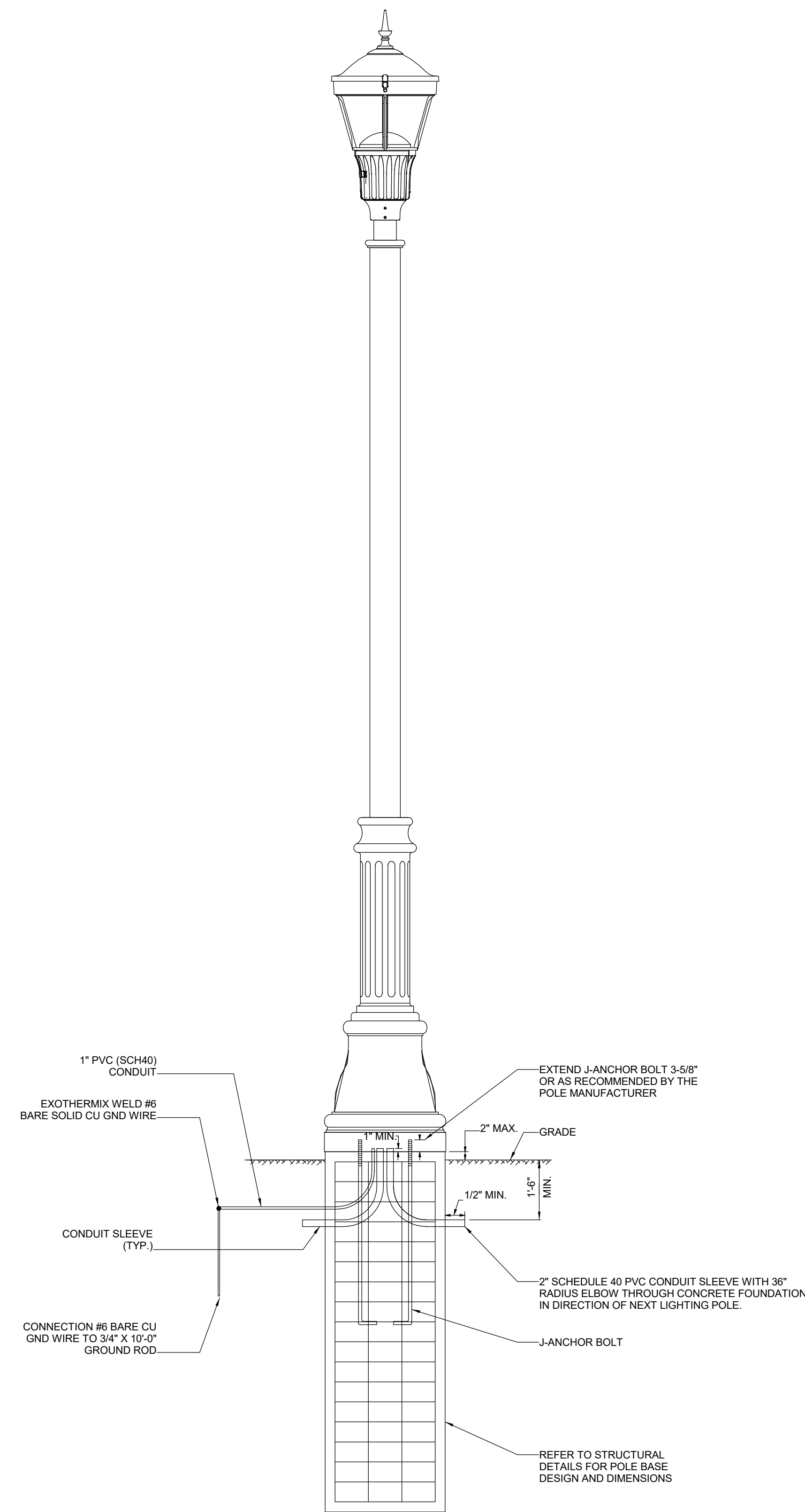
**ELECTRICAL
PHOTOMETRIC SITE
PLAN**

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|-----|----------|-------------------|
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| 2 | 10/16/23 | ISSUE FOR BIDDING |

| NO. | DATE | DESCRIPTION |
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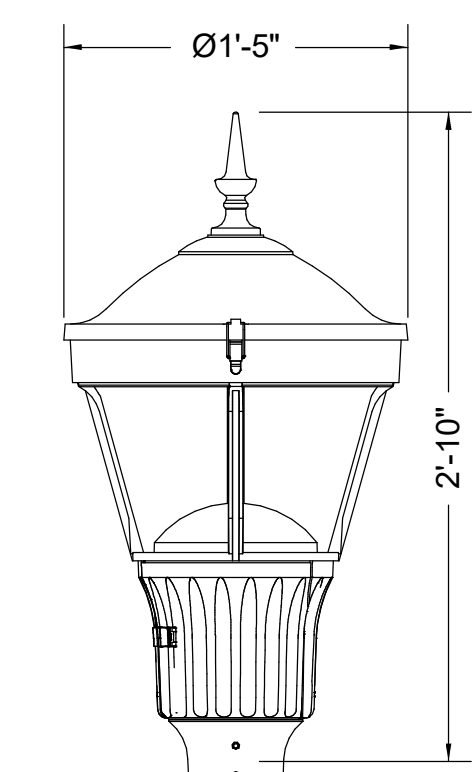
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| 2 | 10/16/23 | ISSUE FOR BIDDING |

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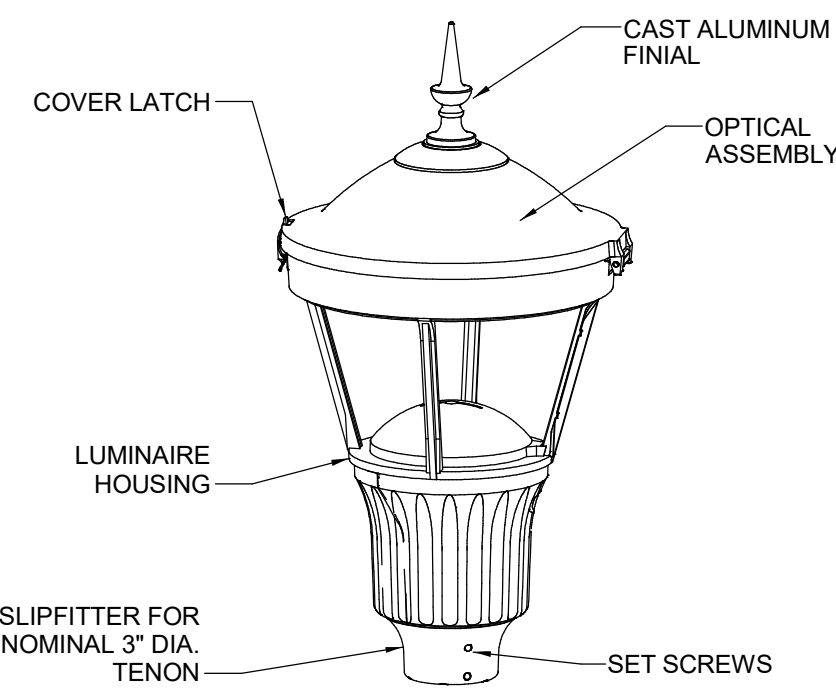


2
E2.1
LIGHT POLE DETAIL
SCALE: NTS

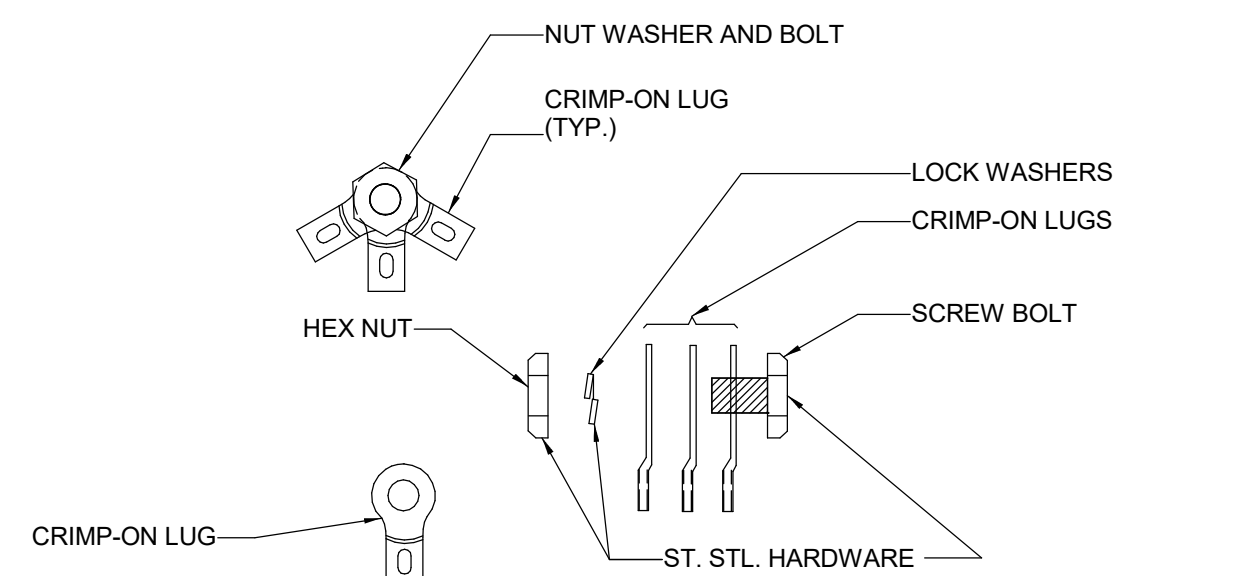
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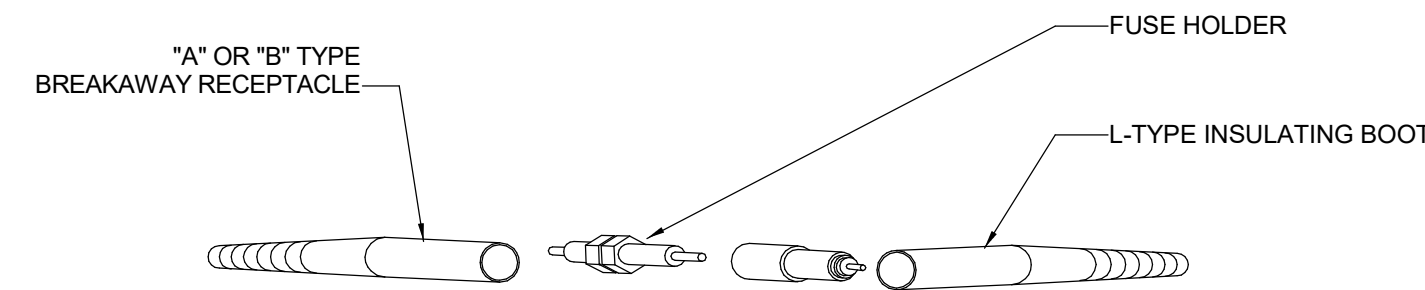
Weight - 35 lbs
Maximum Effective Projected Area - 1.24 sq. ft.



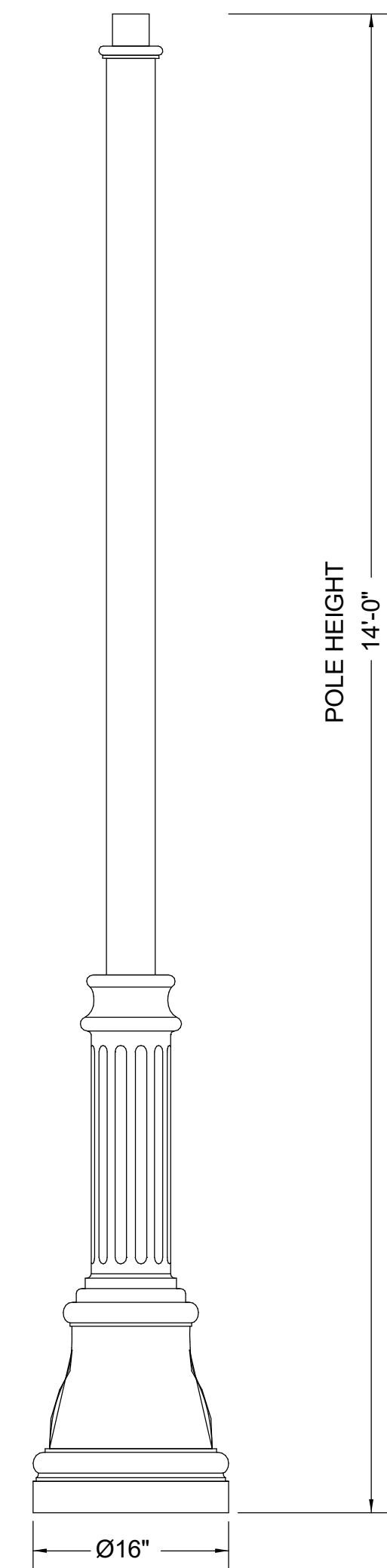
POST LANTERN DETAIL



ISOLATED JOINT DETAIL

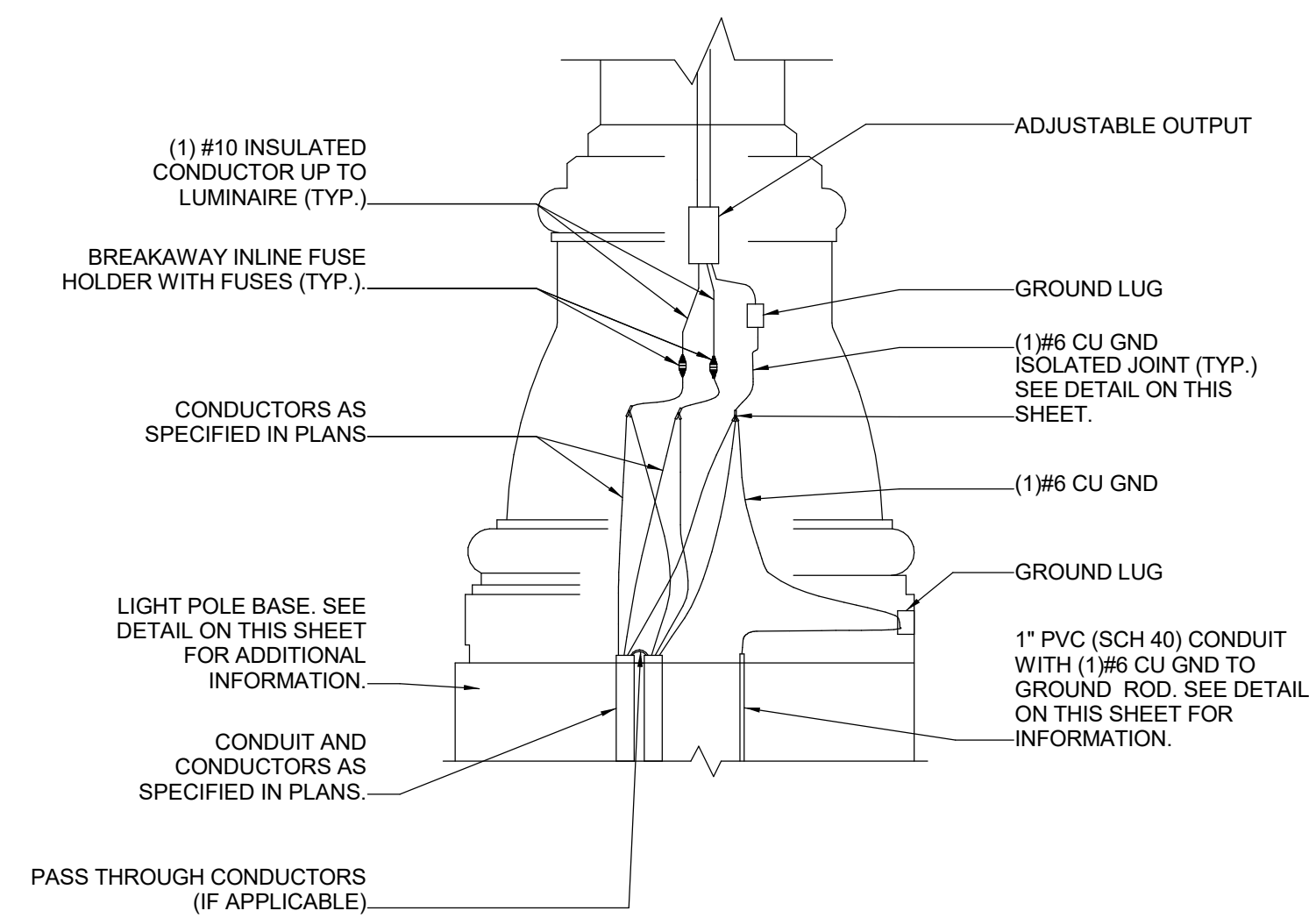


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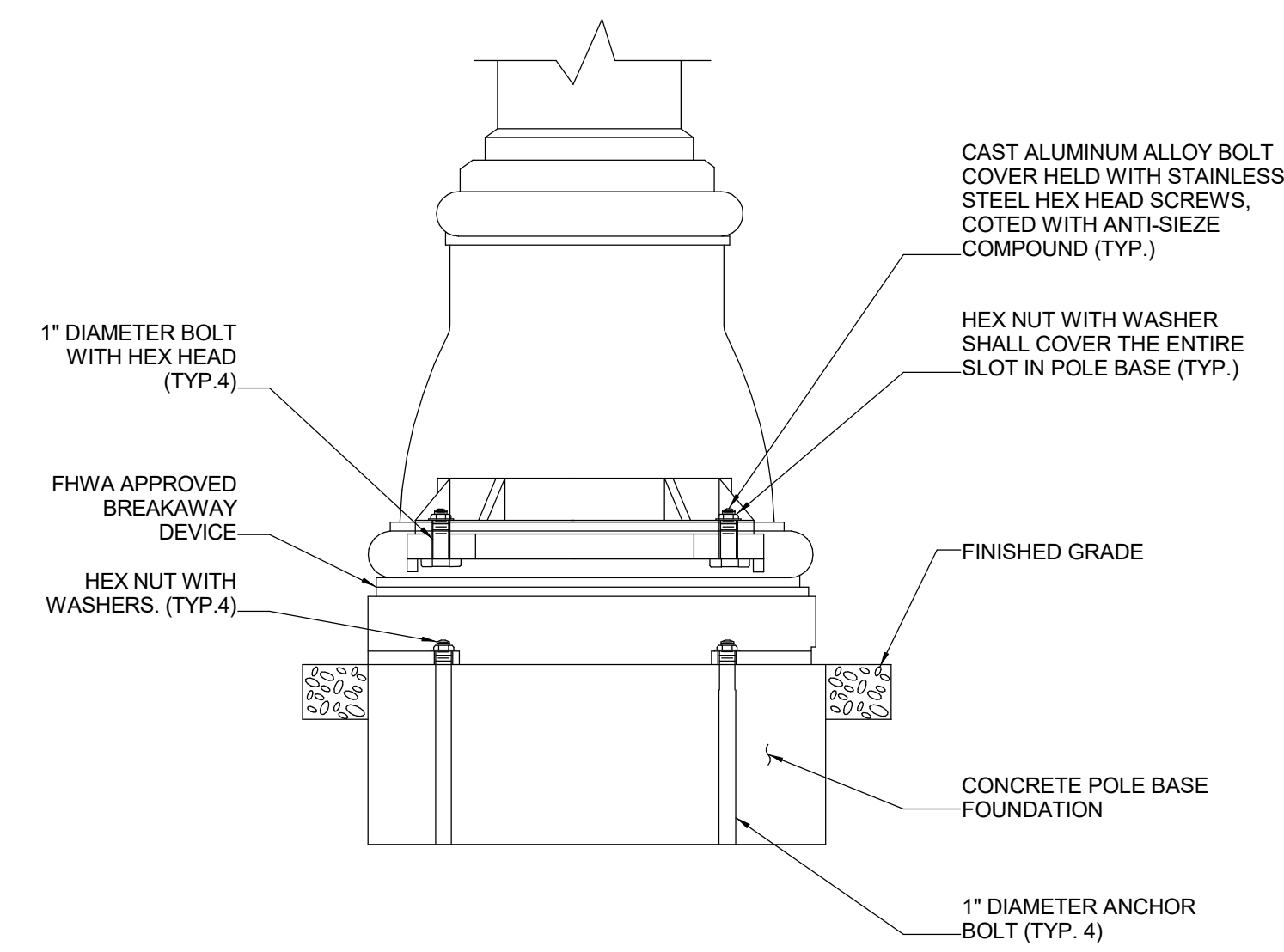


POLE DETAIL

1
E2.1
PARKING LIGHT DETAILS
SCALE: NTS



LIGHT POLE WIRING DETAIL



LIGHT POLE MOUNTING DETAIL



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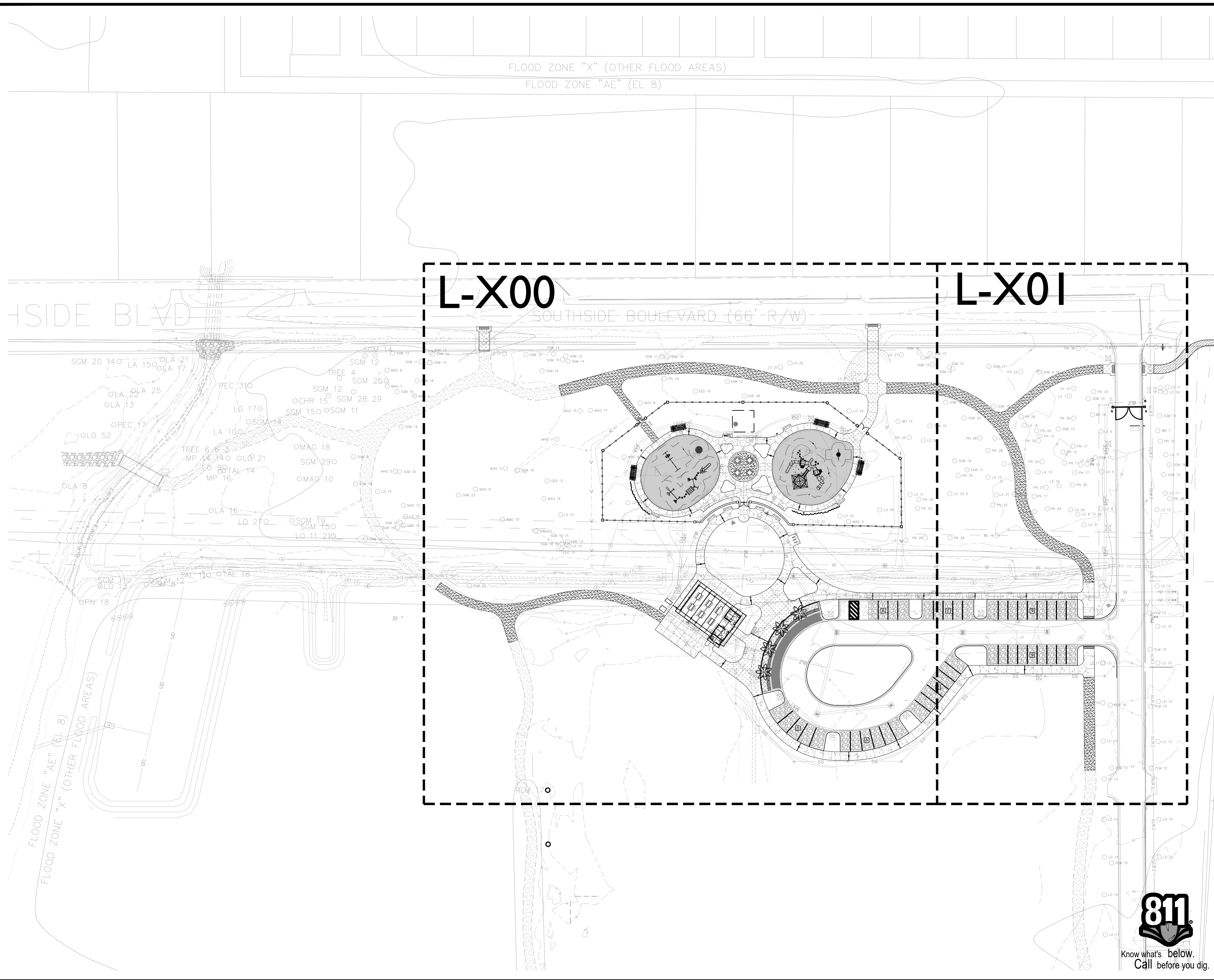
OWNER
CITY OF BEAUFORT
BEAUFORT, SC 29902
PROJECT TITLE
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

DETAILS

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|-----|----------|---------------------------------|-----|------|
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DATE: 10/16/23
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L-X00

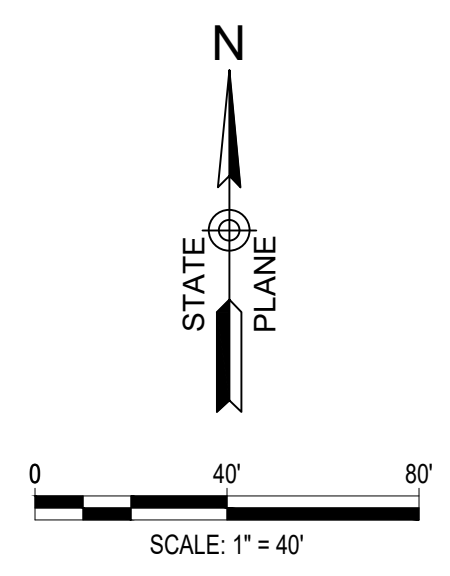
L-X01

FLOOD ZONE "X" (OTHER FLOOD AREAS)
 FLOOD ZONE "AE" (EL 8)

SIDE BLVD

SOUTHSIDE BOULEVARD (66' R/W)

FLOOD ZONE "AE" (EL 8)
 FLOOD ZONE "X" (OTHER FLOOD AREAS)



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CITY OF BEAUFORT
 BEAUFORT, SC 29902

PROJECT TITLE
**SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS**

DRAWING TITLE
SHEET LAYOUT

| NO. | DATE | BY | CHKD | REVISIONS |
|-----|------------|----|------|------------------------|
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| 2 | 10/16/2023 | TG | TG | ISSUE FOR CONSTRUCTION |

| NO. | DATE | BY | CHKD | REVISIONS |
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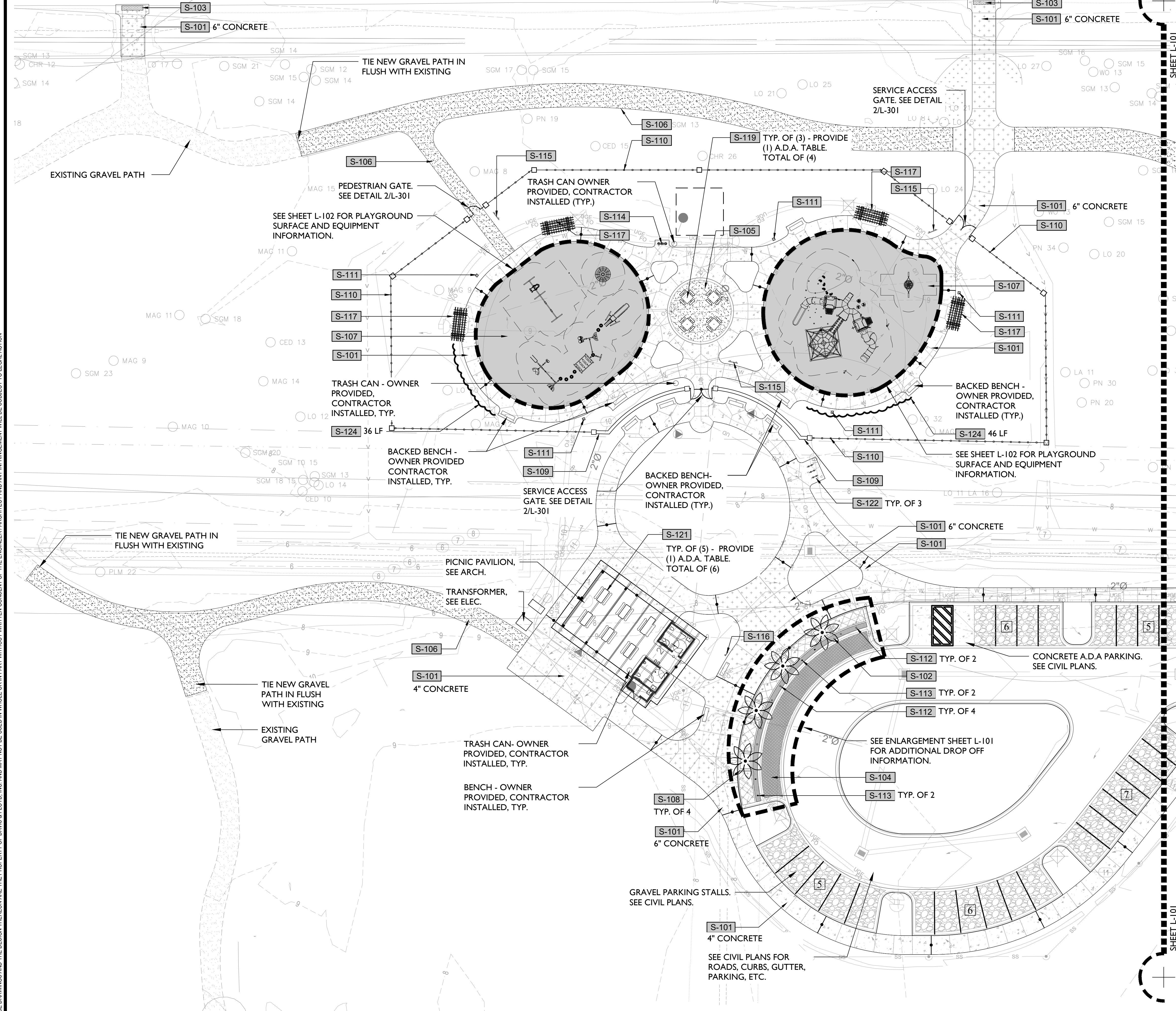
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|-----|------------|----|------|------------------------|
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| 2 | 10/16/2023 | TG | TG | ISSUE FOR CONSTRUCTION |

SOUTHSIDE BOULEVARD (66' R/W)



SITE WORK

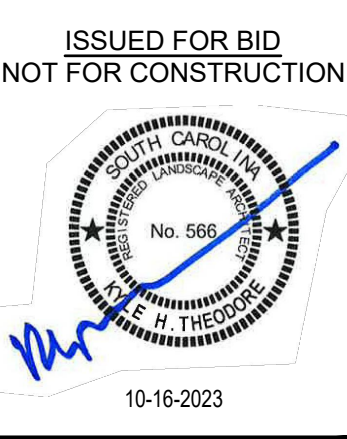
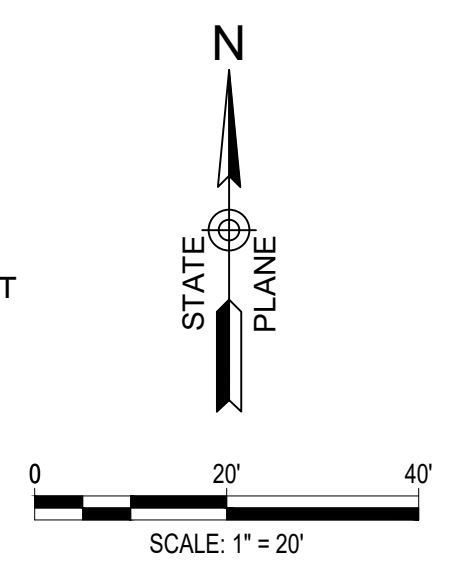
| SYMBOL | DESCRIPTION | DETAIL |
|--------|----------------------------------|----------|
| S-101 | 4" or 6" Concrete | 1/L-300 |
| S-102 | A.D.A. Dome Pavers at Drop-Off | 5/L-300 |
| S-103 | A.D.A. Dome Pavers at Sidewalk | 9/L-300 |
| S-104 | Decorative Vehicular Pavers | 8/L-300 |
| S-105 | Soft Pave w/ Concrete Border | 3/L-300 |
| S-106 | Soft Pave w/ Steel Edging | 4/L-300 |
| S-107 | Playground Safety Surfacing | 6/L-300 |
| S-108 | Palm Tree Well | 7/L-300 |
| S-109 | Freestanding Wall & Columns | 1/L-301 |
| S-110 | Metal Playground Enclosure Fence | 2/L-301 |
| S-111 | Hose Bibb | 3/L-303 |
| S-112 | Fixed Bollard | 5/L-303 |
| S-113 | Removable Bollard | 5/L-303 |
| S-114 | Drinking Fountain | 4/L-303 |
| S-115 | Playground Rules Sign | 1/L-303 |
| S-116 | Building I.D. Sign | 2/L-303 |
| S-117 | Swing Trellis | 2/L-302 |
| S-118 | Park I.D. Sign | 3/L-301 |
| S-119 | Cafe Table | 9/L-303 |
| S-120 | Decorative Vehicular Entry Gate | 1/L-302 |
| S-121 | Picnic Table | 10/L-303 |
| S-122 | Bike Rack | 6/L-303 |
| S-123 | Asphalt Trail | 10/L-300 |
| S-124 | Root Barrier | 1/L-101 |

SITE ELEMENTS LEGEND

| | |
|--|--|
| | HOSE BIBB, QTY: 5 |
| | DRINKING FOUNTAIN, QTY: 1 |
| | SQUARE CAFE TABLE, QTY: 3 A.D.A. SQUARE CAFE TABLE, QTY: 1 |
| | PICNIC TABLE, QTY: 5 A.D.A. PICNIC TABLE, QTY: 1 |
| | BIKE RACK, QTY: 3 (6 BIKES TOTAL) |
| | SWING TRELLIS, QTY: 4 |
| | FIXED BOLLARD, QTY: 6 |
| | REMOVABLE BOLLARD, QTY: 4 |
| | PLAYGROUND RULES SIGN, QTY: 3 |
| | BUILDING I.D. SIGN, QTY: 1 |
| | PARK I.D. SIGN, QTY: 1 |
| | BACKED BENCH (11) & TRASH RECEPTACLE (3) OWNER PROVIDED, CONTRACTOR INSTALLED |

PAVEMENT LEGEND

| | |
|--|-----------------|
| | 4" CONCRETE |
| | 6" CONCRETE |
| | EXPANSION JOINT |
| | CONTROL JOINT |



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PLAYGROUND AREA IMPROVEMENTS

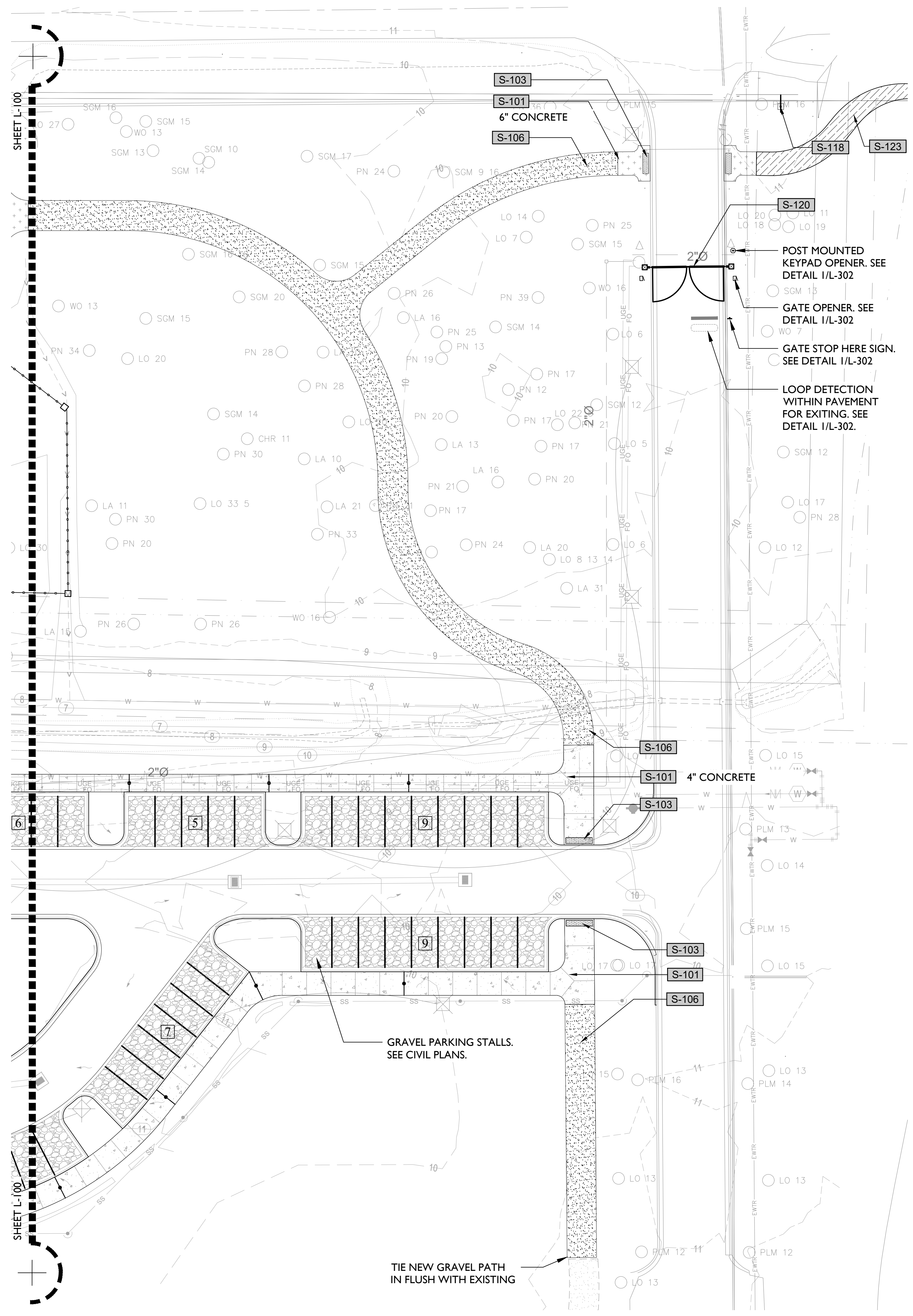
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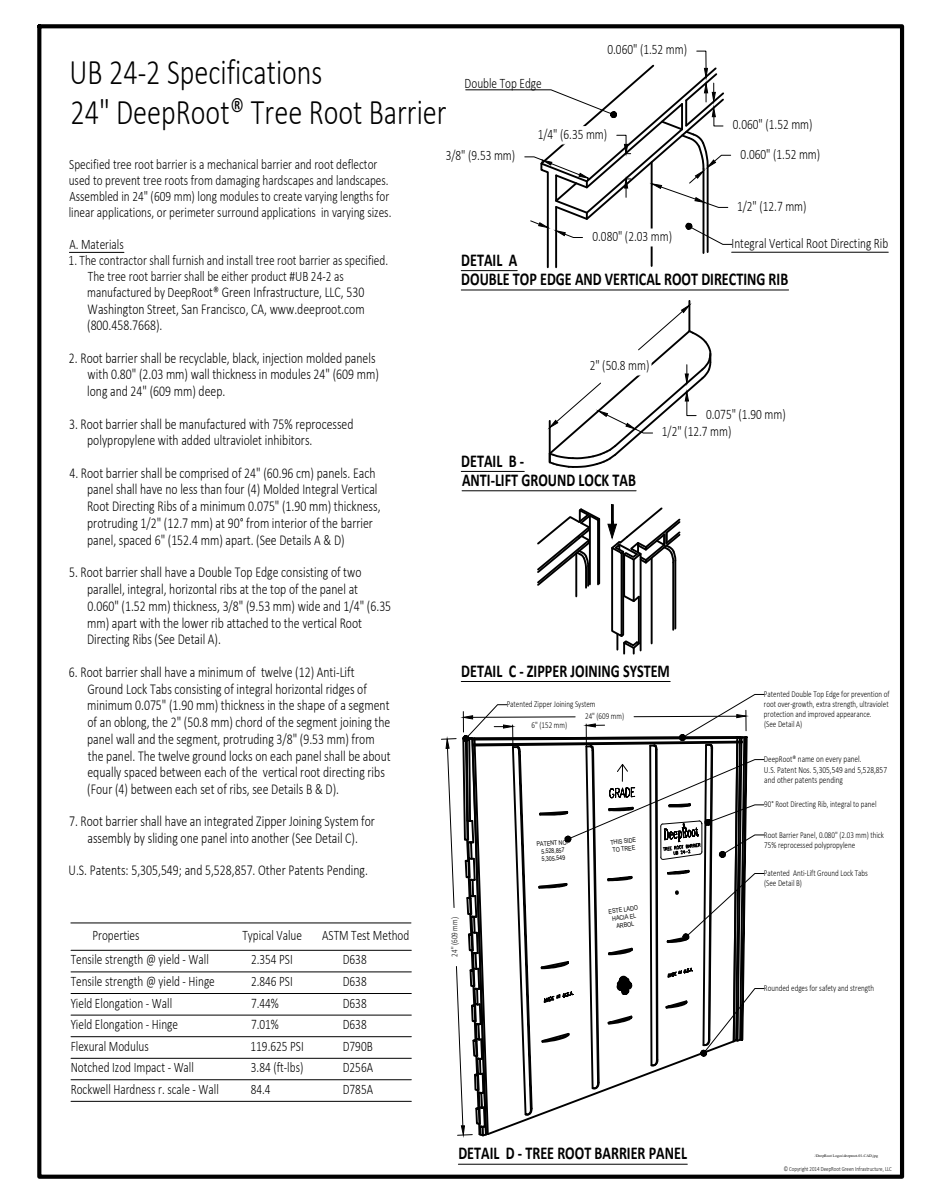
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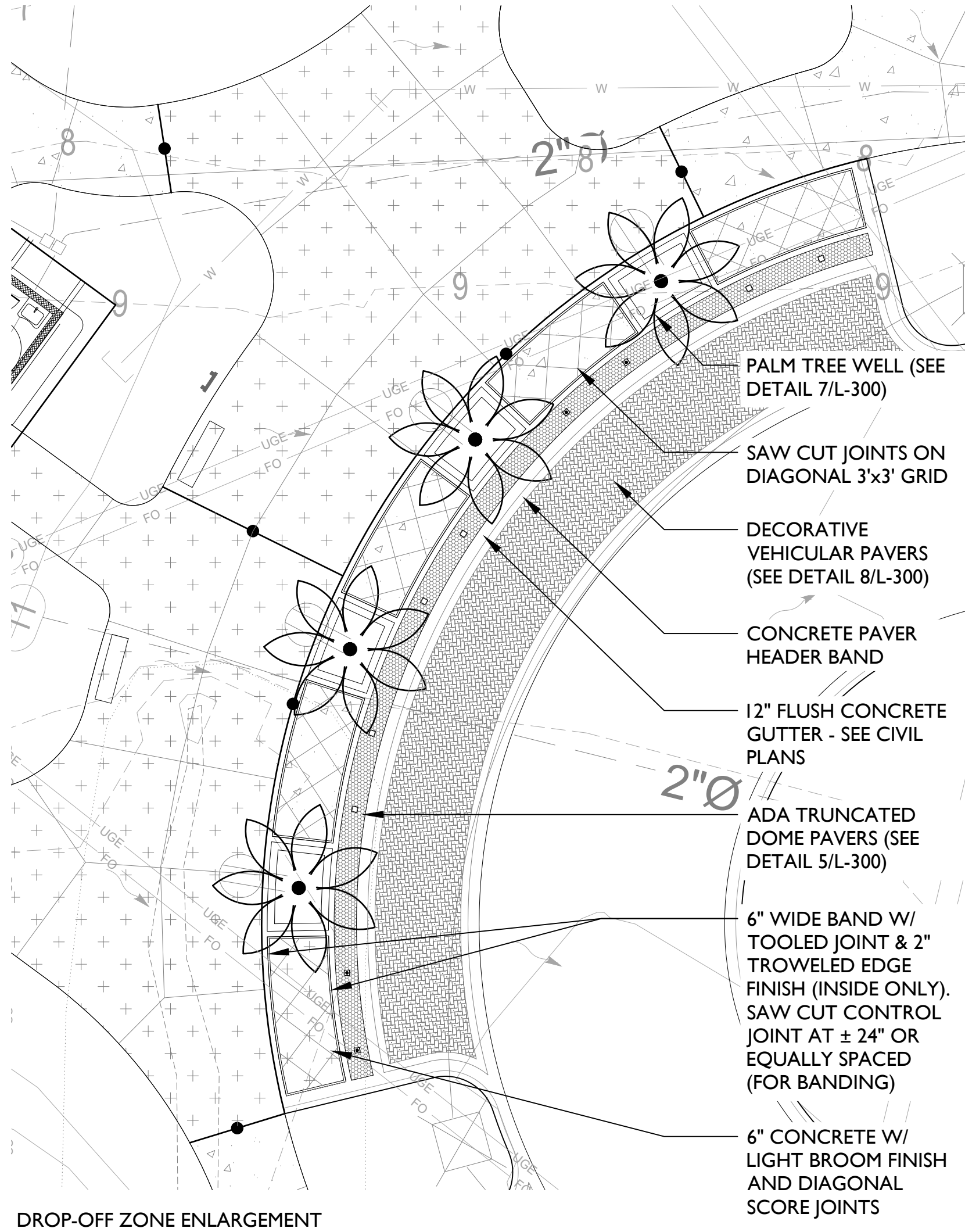


MATERIAL SELECTIONS:
 MNFR: DEERPROOT
 PRODUCT: UB 24-2
 SIZE: 24"

NOTES:
 1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
 2. SEE SITE PLAN FOR LOCATIONS AND LENGTHS.



1 ROOT BARRIER
 N.T.S.

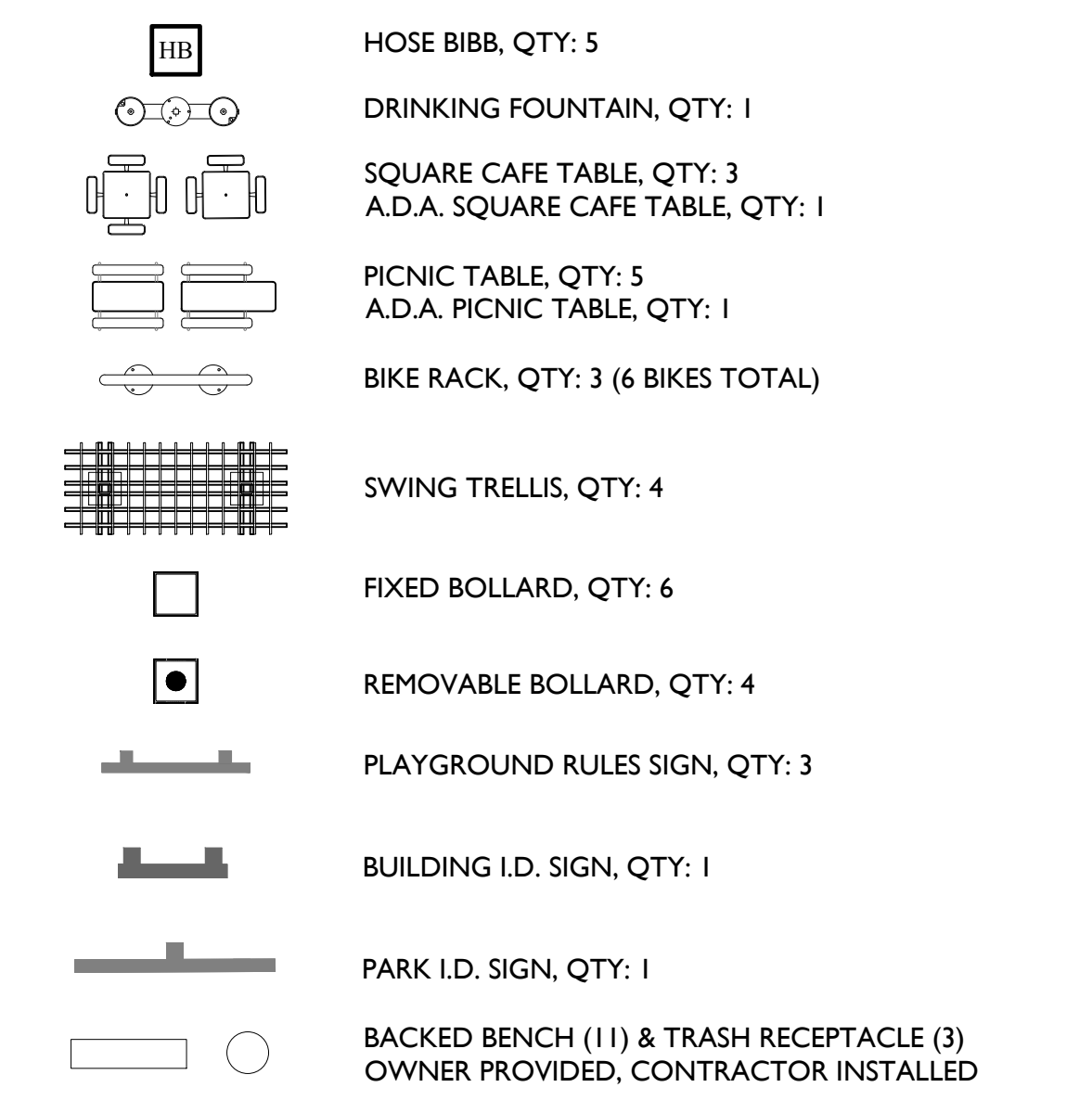


DROP-OFF ZONE ENLARGEMENT
 SCALE: 1" = 10'-0"

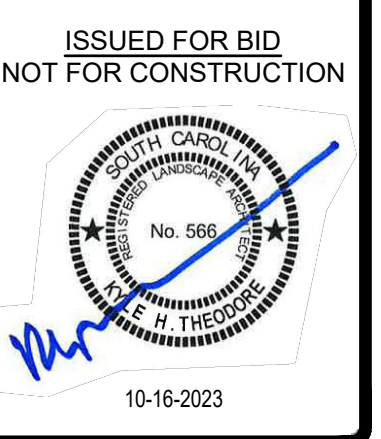
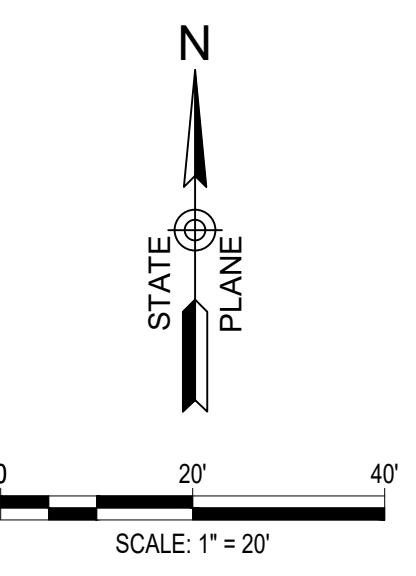
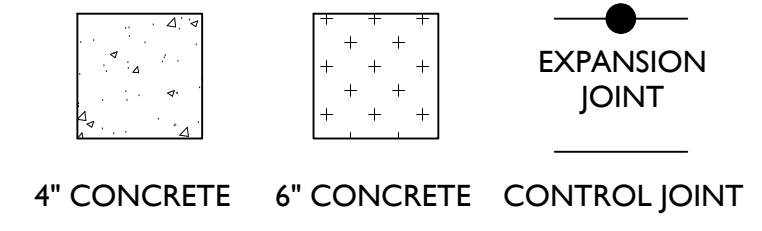
SITE WORK

| SYMBOL | DESCRIPTION | DETAIL |
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| S-105 | Soft Pave w/ Concrete Border | 3/L-300 |
| S-106 | Soft Pave w/ Steel Edging | 4/L-300 |
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| S-111 | Hose Bibb | 3/L-303 |
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| S-113 | Removable Bollard | 5/L-303 |
| S-114 | Drinking Fountain | 4/L-303 |
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| S-121 | Picnic Table | 10/L-303 |
| S-122 | Bike Rack | 6/L-303 |
| S-123 | Asphalt Trail | 10/L-300 |
| S-124 | Root Barrier | 1/L-101 |

SITE ELEMENTS LEGEND



PAVEMENT LEGEND



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 LANDSCAPE ARCHITECTURE
 LAND PLANNING

CITY OF BEAUFORT
 BEAUFORT, SC 29902
 PROJECT TITLE
SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

SITE PLAN

| NO. | DATE | DESCRIPTION |
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| 1 | 10/10/2023 | ISSUED FOR BID |
| 2 | 10/16/2023 | NOT FOR CONSTRUCTION |

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 THESE DRAWINGS AND THE DESIGN THEREON ARE THE PROPERTY OF DAVIS & FLOYD, INC. AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF THE ENGINEER, ARCHITECT AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION

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WOOD+PARTNERS
 LANDSCAPE ARCHITECTURE
 LAND PLANNING

CITY OF BEAUFORT
 BEAUFORT, SC 29912

SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

PLAYGROUND ENLARGEMENT

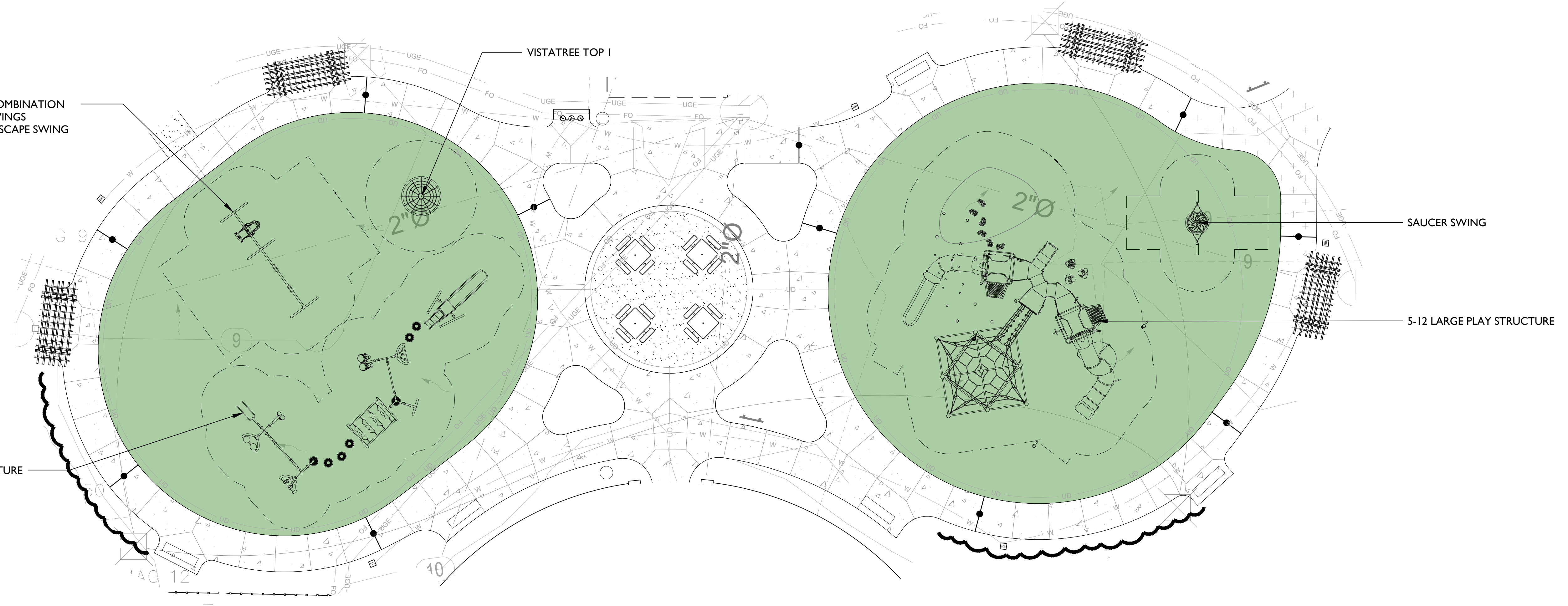
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 DATE: 10/10/2023
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 CHECKED: TG/CC
 PLOTTED: TG

PAGE 4 OF 15

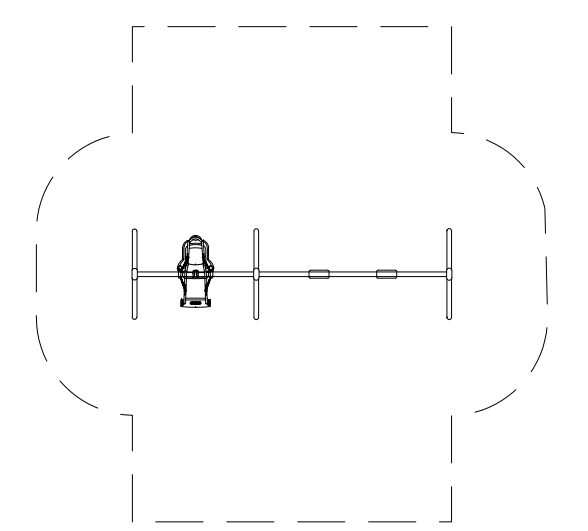
- SWING SET COMBINATION**
- 2 TOT SWINGS
 - 1 A.D.A. XSCAPE SWING



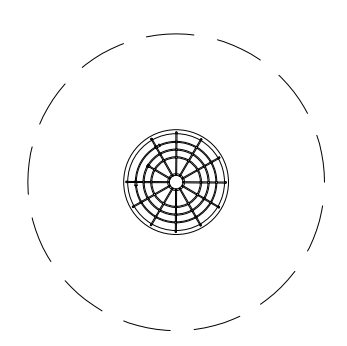
P.I.P RUBBER COLOR SELECTIONS:

MNFR: GT IMPAX
 COLOR(S): 50% GREEN RH10
 50% BLACK

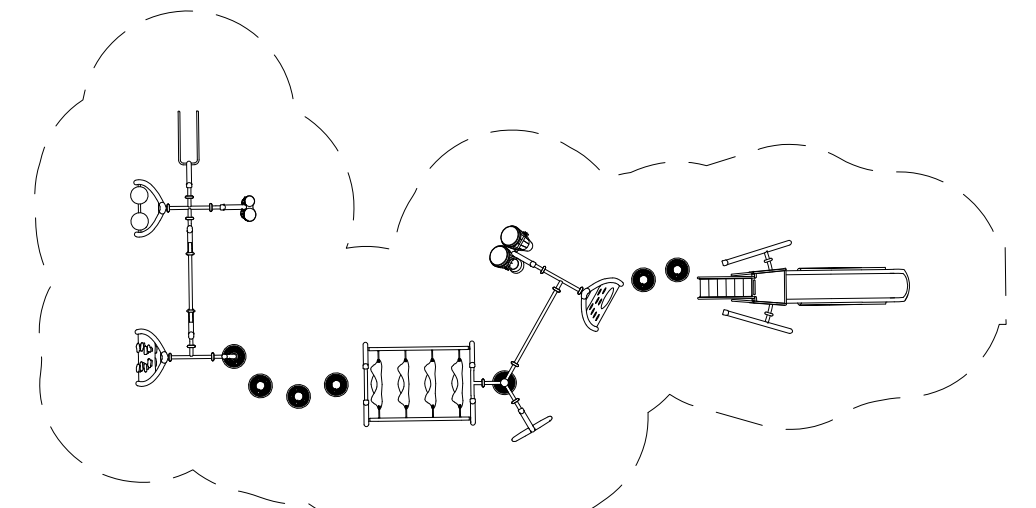
PLAYGROUND EQUIPMENT
 PLAYGROUND MANUFACTURER: GAMETIME



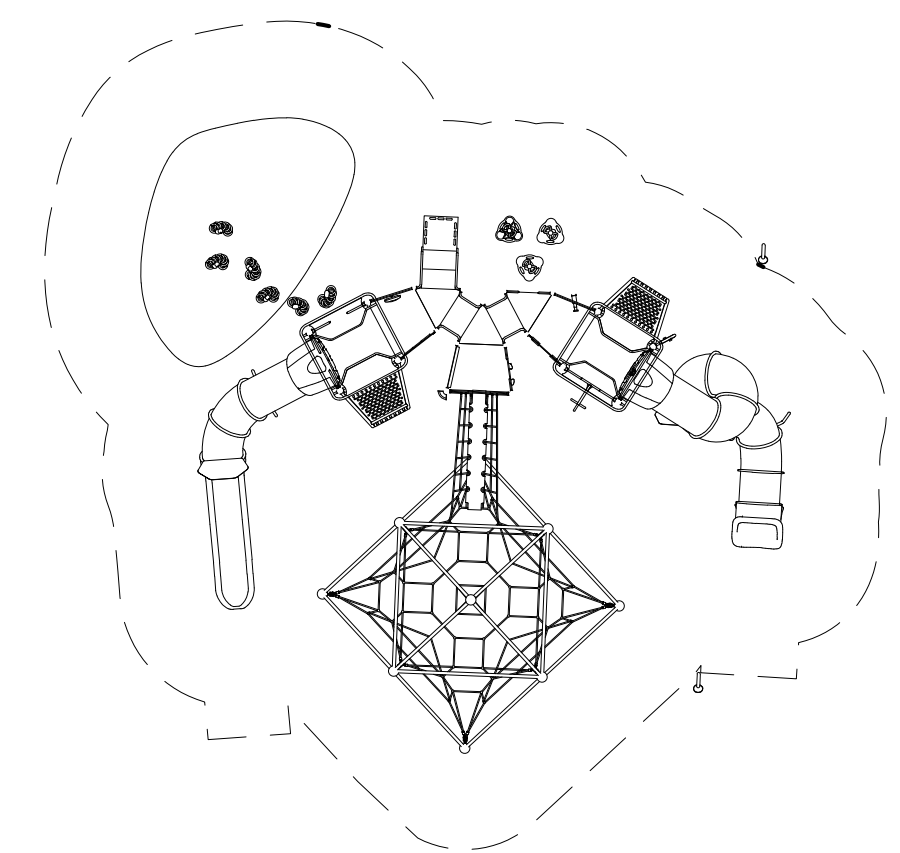
SWING SET COMBINATION - QTY: 1



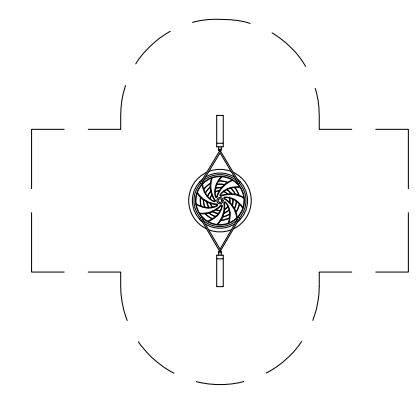
VISTA TREE TOP I - QTY: 1



2-5 LARGE PLAY STRUCTURE - QTY: 1



5-12 LARGE PLAY STRUCTURE - QTY: 1



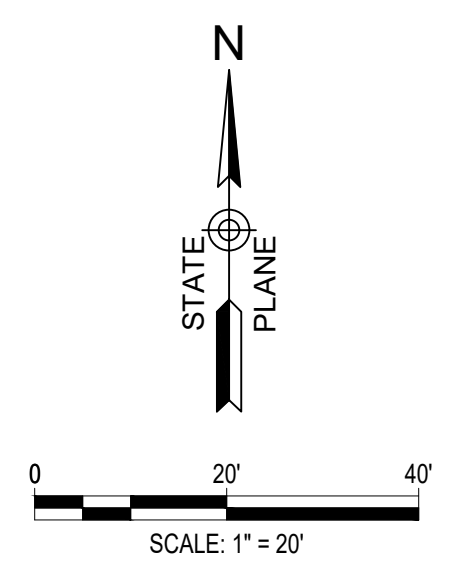
SAUCER SWING - QTY: 1

NOTE:
 PLAYGROUND EQUIPMENT AND SAFETY SURFACING IS BEING PURCHASED AND INSTALLED BY OWNER UNDER SEPARATE CONTRACT. GAMETIME PLAYGROUNDS WILL BE MANUFACTURING AND SHIPPING THE EQUIPMENT TO THE SITE. CUNNINGHAM RECREATION WILL BE INSTALLING THE EQUIPMENT, THEIR FOOTINGS, AND THE REQUIRED SAFETY SURFACING BELOW. THIS BID PACKAGE INCLUDES COORDINATION OF THE INSTALLATION AS WELL AS THE PREPARATION OF SUBGRADE, SUBGRADE DRAINAGE, AND CONCRETE WALKS SURROUNDING THE PLAYGROUND.

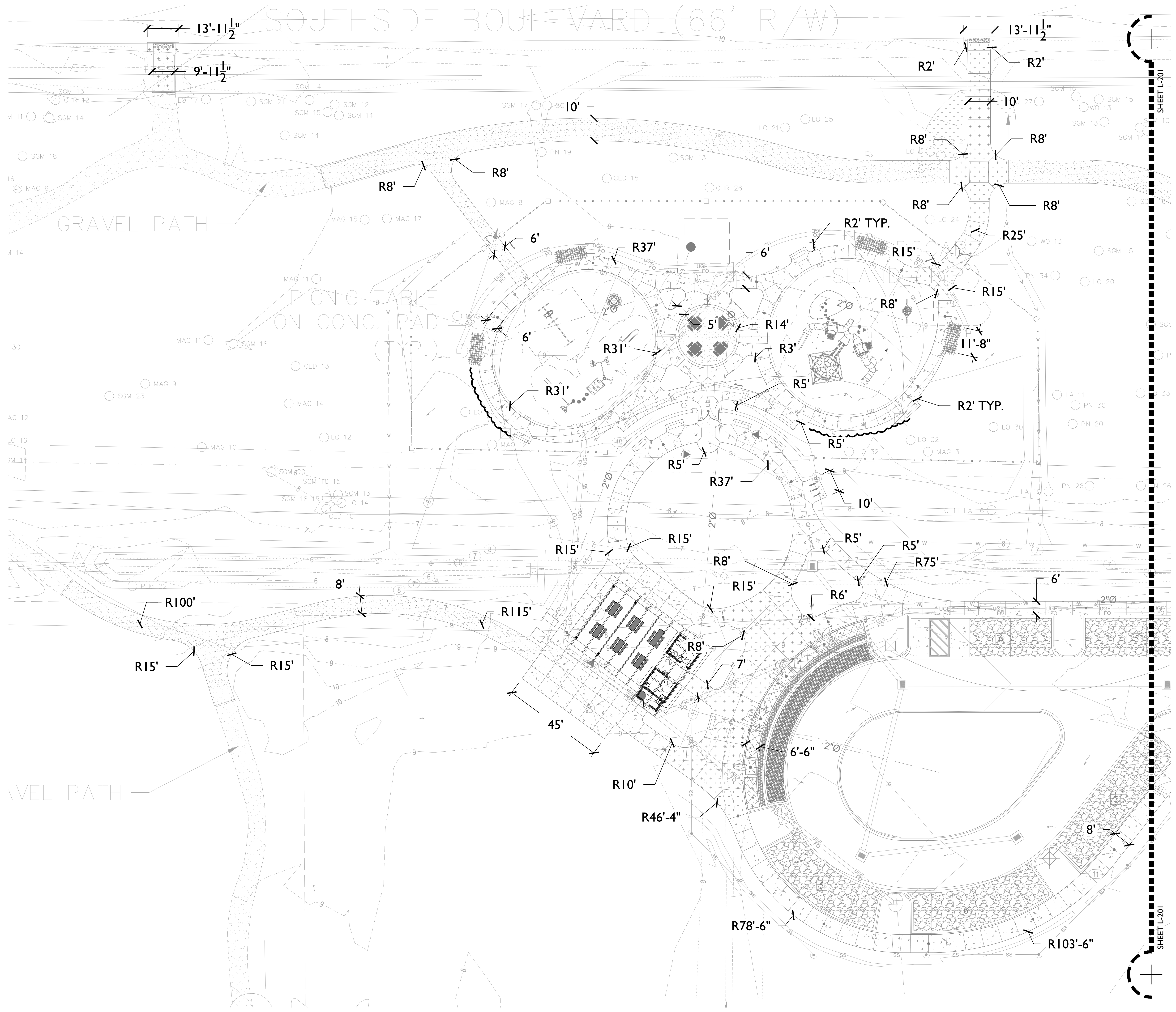
CUNNINGHAM RECREATION CONTACT:
 JIMMY BURKE
 P: (704) 907-6556
 E: JIMMY@CUNNINGHAMASSOC.COM



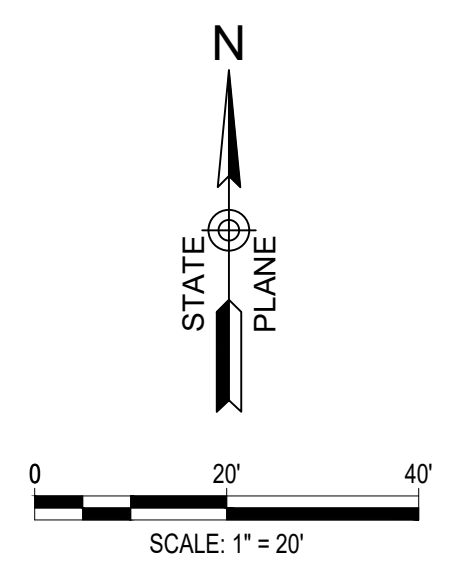
Know what's below.
 Call before you dig.



G:\Projects-HH\Parks\Beaufort Southside Park_SCD\Production\Work CD\01-23\07-200\Layout.dwg, 10/5/2023 4:25:02 PM, granddier.corsino
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OWNER
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 BEAUFORT, SC 29902

PROJECT TITLE
 SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

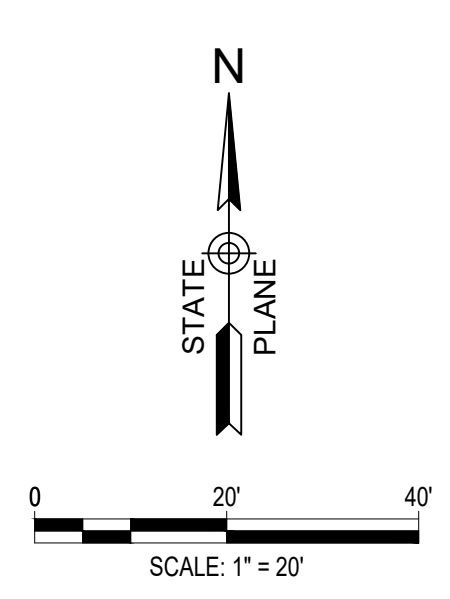
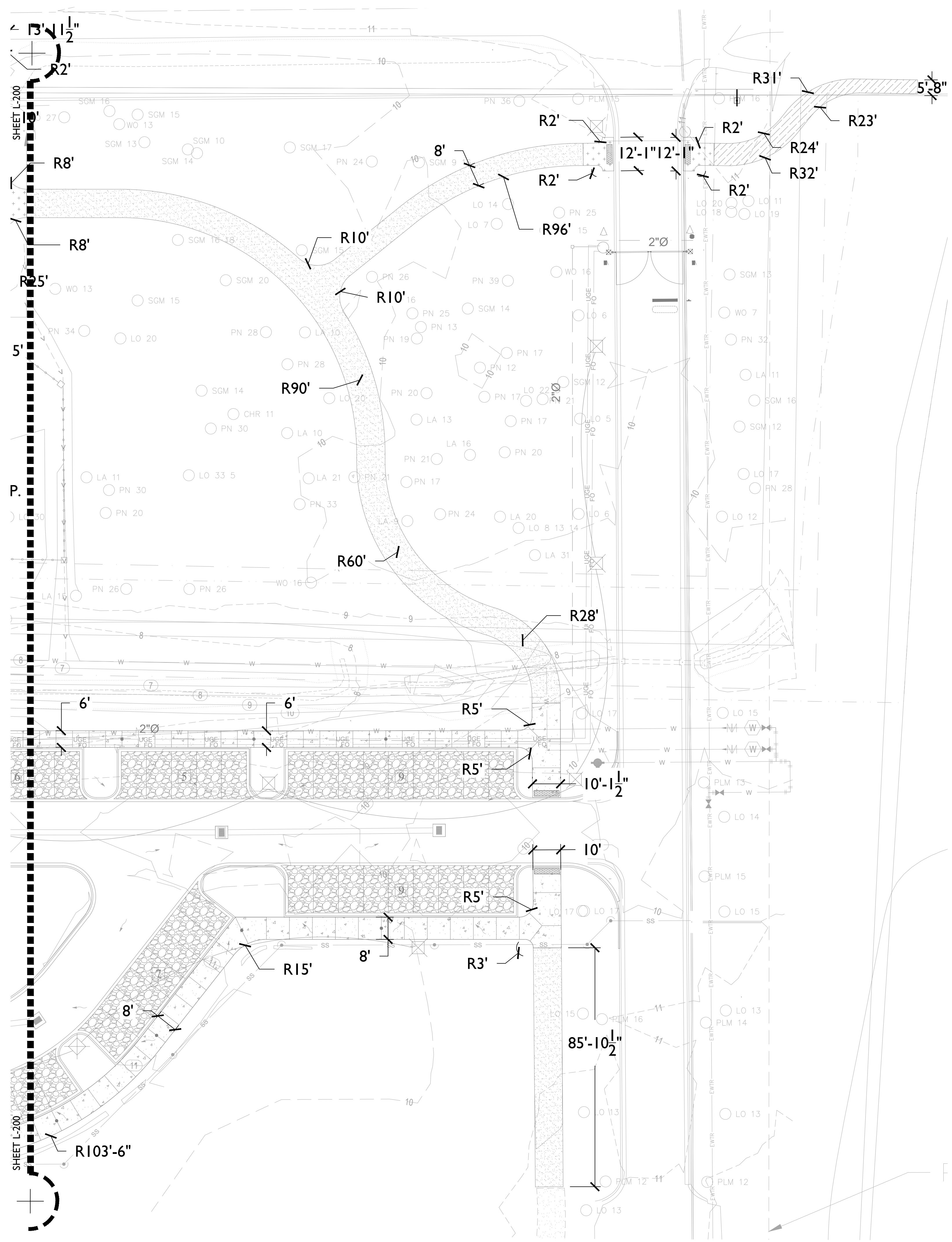
DRAWING TITLE
 LAYOUT PLAN

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 LAND PLANNING

OWNER
CITY OF BEAUFORT
 BEAUFORT, SC 29902

PROJECT TITLE
**SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS**

DRAWING TITLE
LAYOUT PLAN

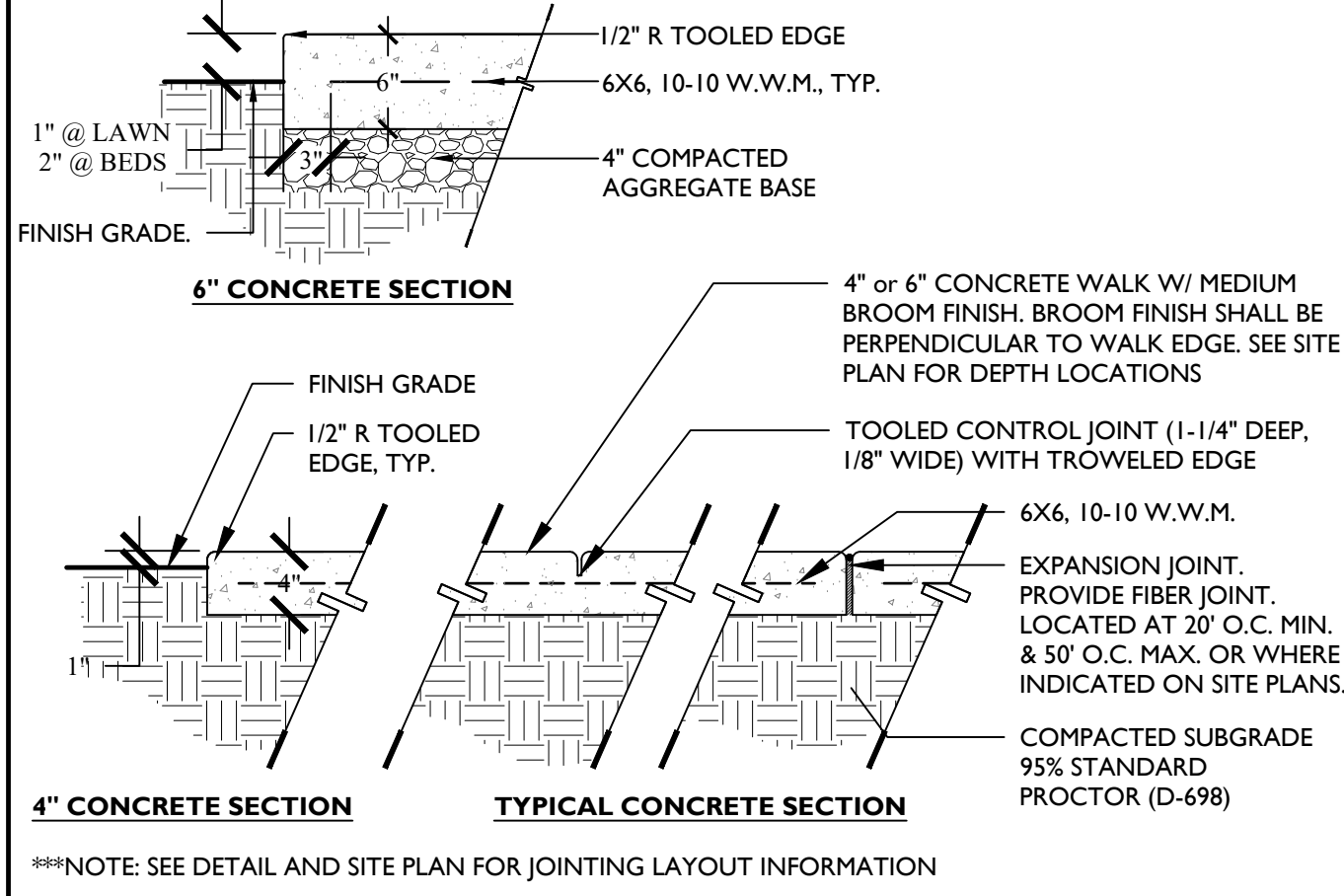
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PROJECT NO. 32024.00
 DATE 10/10/2023
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 PROJECT NO. 32024.00

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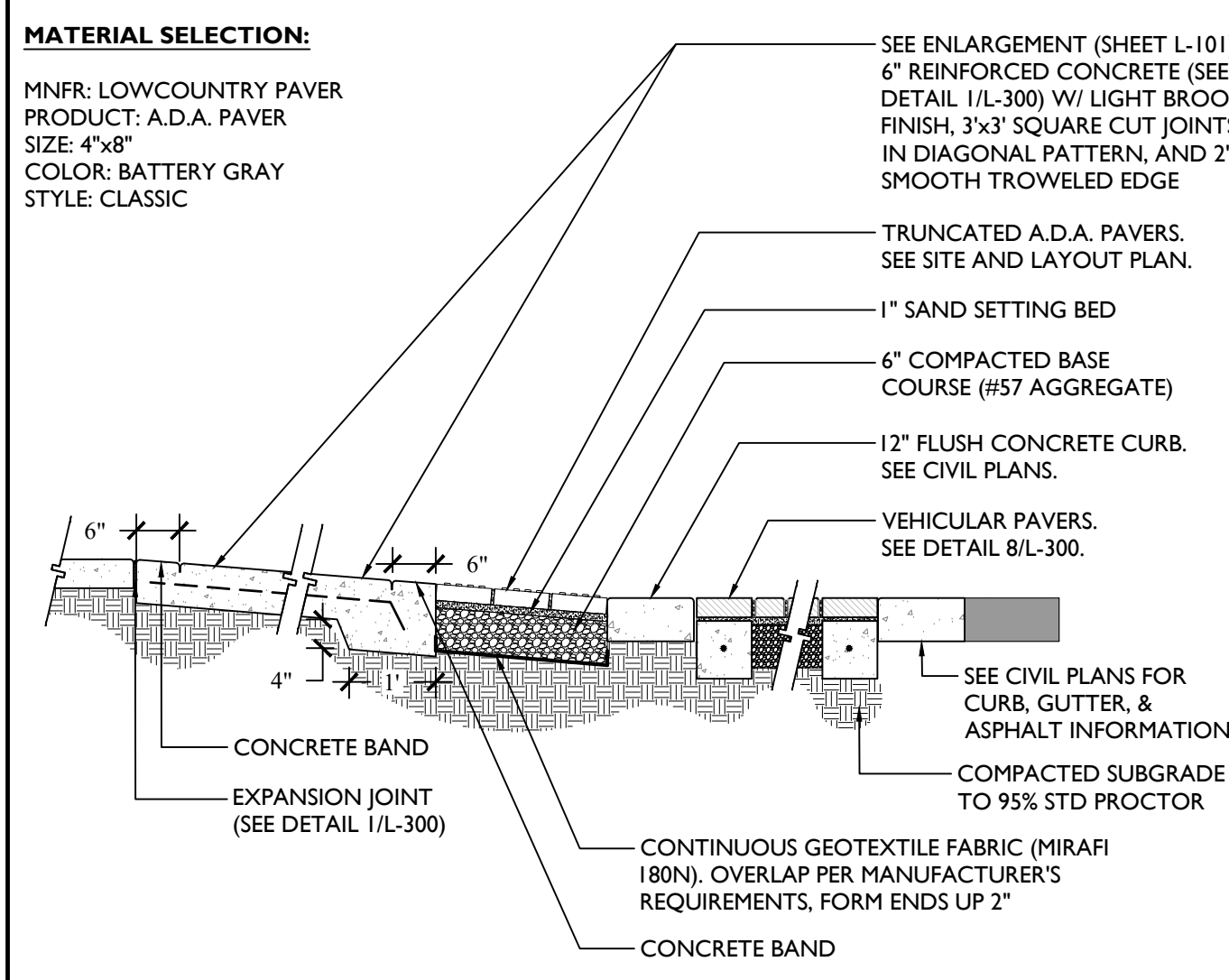
NOTES:

- CONTRACTOR SHALL PROVIDE A 5'x5' MIN. MOCKUP FOR APPROVAL PRIOR TO CONSTRUCTION. MOCKUP SHALL INCLUDE CONTROL AND EXPANSION JOINT EXAMPLES.
- PROVIDE MIN. 1% CROSS SLOPE ON ALL PAVED SURFACES FOR POSITIVE DRAINAGE.
- CONSTRUCT EXPANSION JOINTS WHERE WALKS MEET CURBS, DIFFERENT PAVEMENTS & WALLS.
- SEE SITE PLAN FOR FINISH TYPE & LOCATIONS.
- ALL CONCRETE SHALL BE 4000 PSI @ 28 DAYS FOR SIDEWALKS.
- ALL CONCRETE EXPANSION & CONTROL JOINTS SHOULD BE LOCATED / SCORED / CUT AS SHOWN ON THE SITE PLAN OR WITHIN INDIVIDUAL DETAIL ENLARGEMENTS. ANY JOINT LOCATIONS THAT DO NOT FOLLOW THESE PLANS OR HAVE BEEN FIELD MODIFIED WITHOUT APPROVAL BY THE LANDSCAPE ARCHITECT ARE SUBJECT TO DEMO / REMOVAL AND RE-POURING AT THE CONTRACTORS EXPENSE.

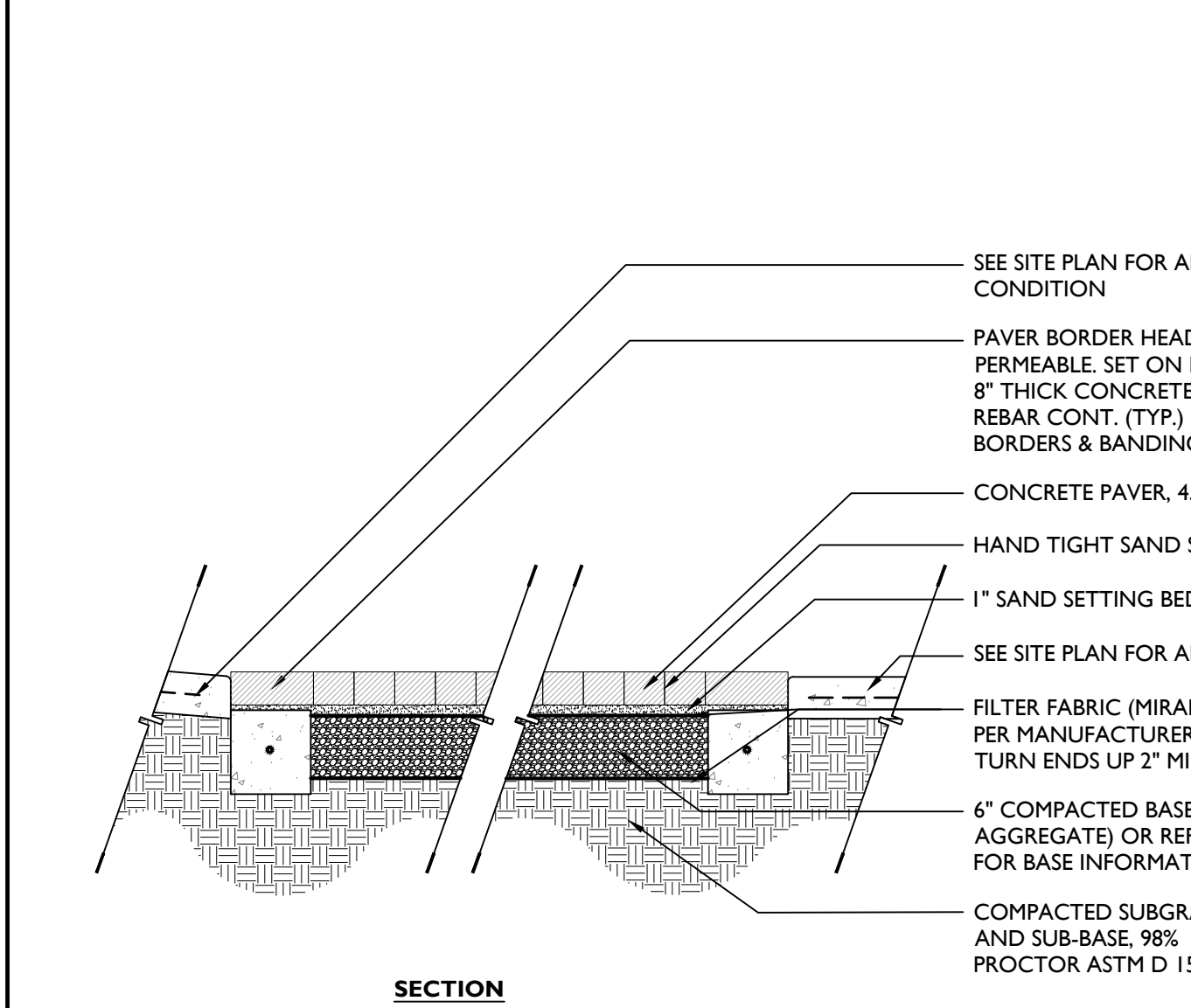
1 4" or 6" CONCRETE WALKWAY
1" = 1'-0"

NOTES:

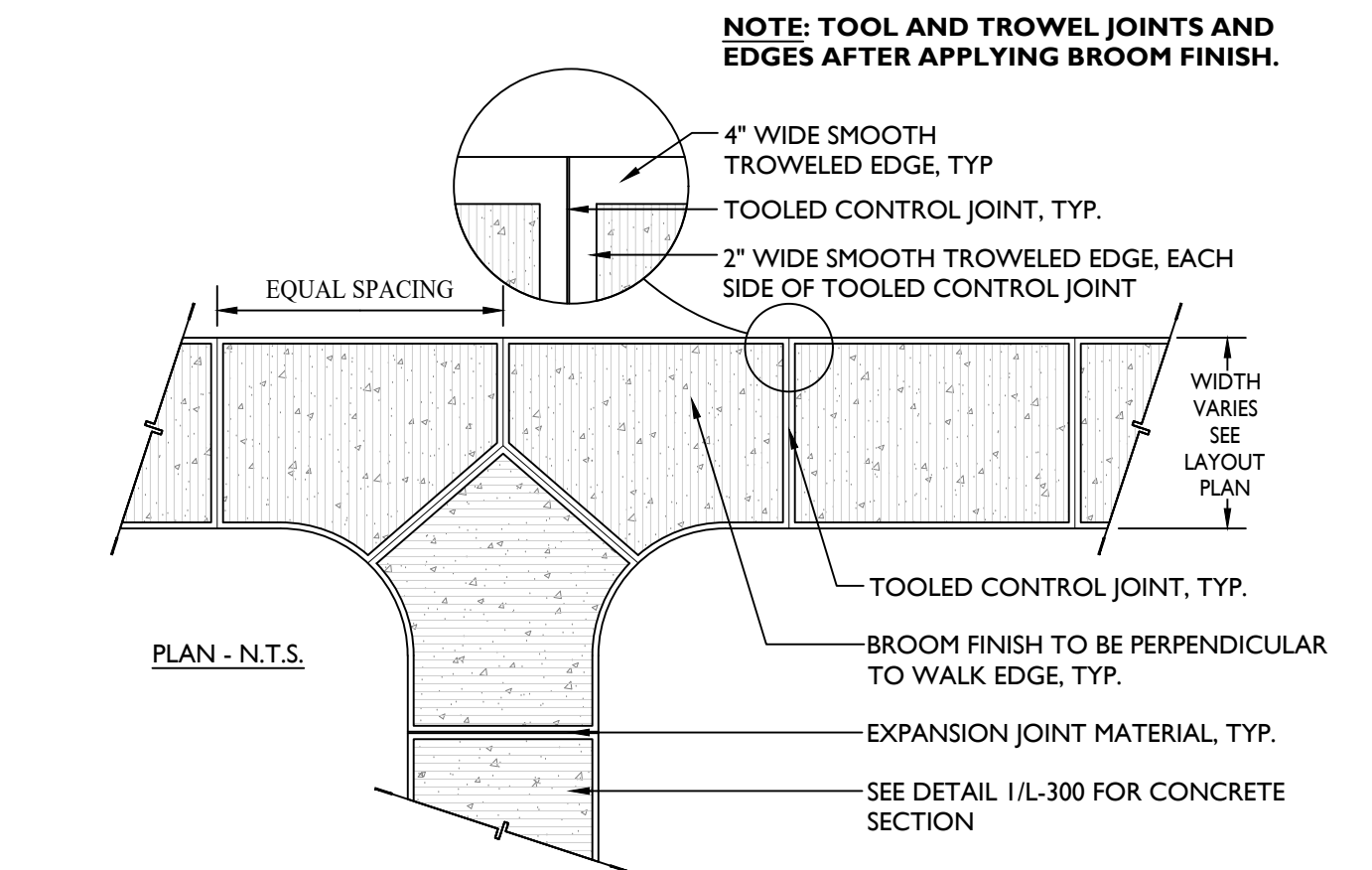
- PROVIDE DETECTABLE WARNING GRADES AS SHOWN.
- SEE CIVIL PLANS FOR RAMP AND GRADING INFORMATION.
- ALL CONCRETE SHALL BE 4000 PSI AT 28 DAYS.



5 A.D.A. DOME PAVERS AT DROP-OFF
1/2" = 1'-0"



8 DECORATIVE VEHICULAR PAVERS (PATTERN ONLY)
3/4" = 1'-0"



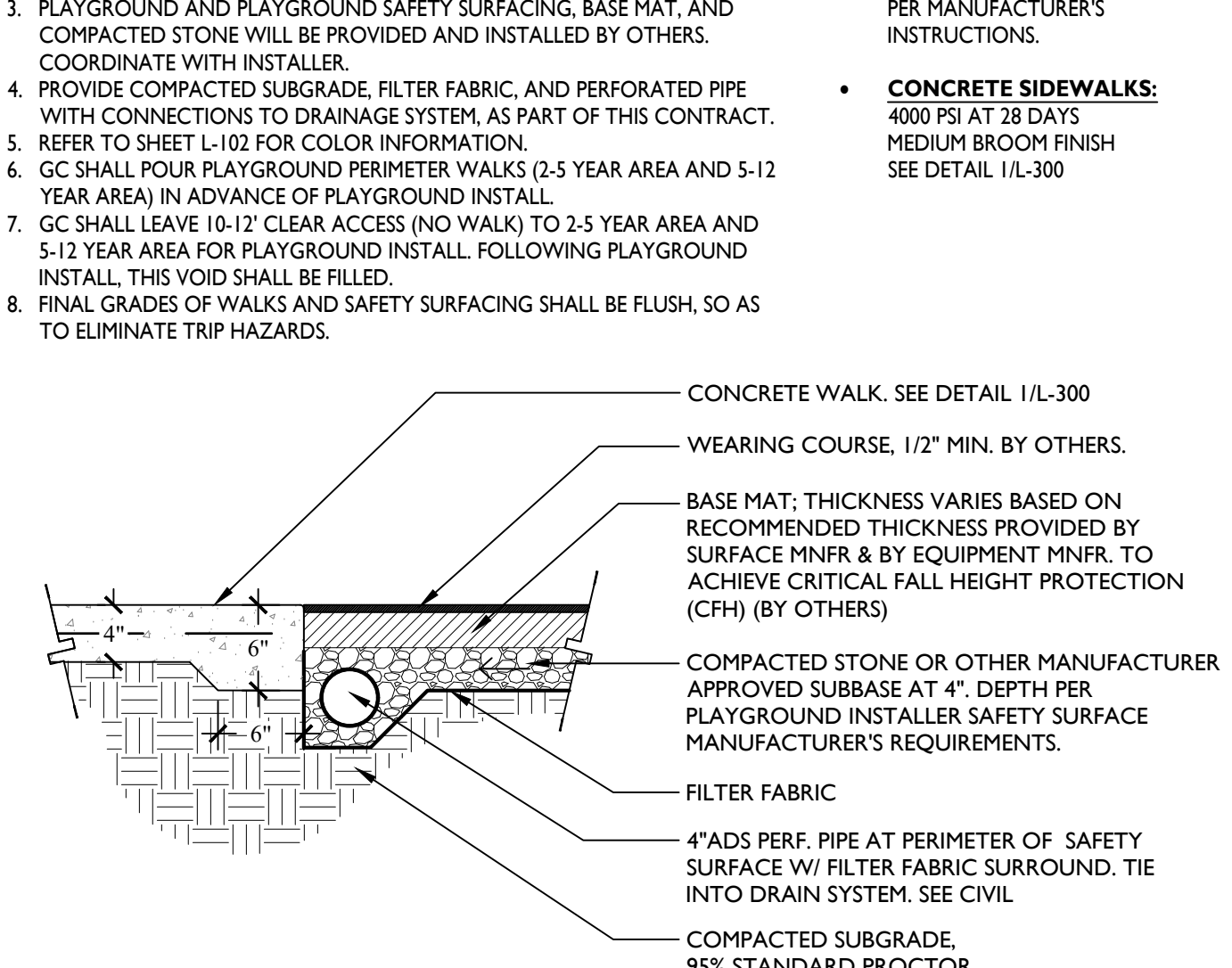
NOTES:

- SCORE PATTERN AND EXPANSION JOINTS SHALL BE PLACED ON A SQUARE PATTERN WITH RESPECT TO THE WIDTH OF THE WALK.
- ALL CONCRETE EXPANSION & CONTROL JOINTS SHOULD BE LOCATED / SCORED / CUT AS SHOWN ON THE SITE PLAN OR WITHIN INDIVIDUAL DETAIL ENLARGEMENTS. ANY JOINT LOCATIONS THAT DO NOT FOLLOW THESE PLANS OR HAVE BEEN FIELD MODIFIED WITHOUT APPROVAL BY THE LANDSCAPE ARCHITECT ARE SUBJECT TO DEMO / REMOVAL & RE-POURING AT THE CONTRACTORS EXPENSE.

2 CONCRETE JOINTING LAYOUT
1" = 1'-0"

NOTES:

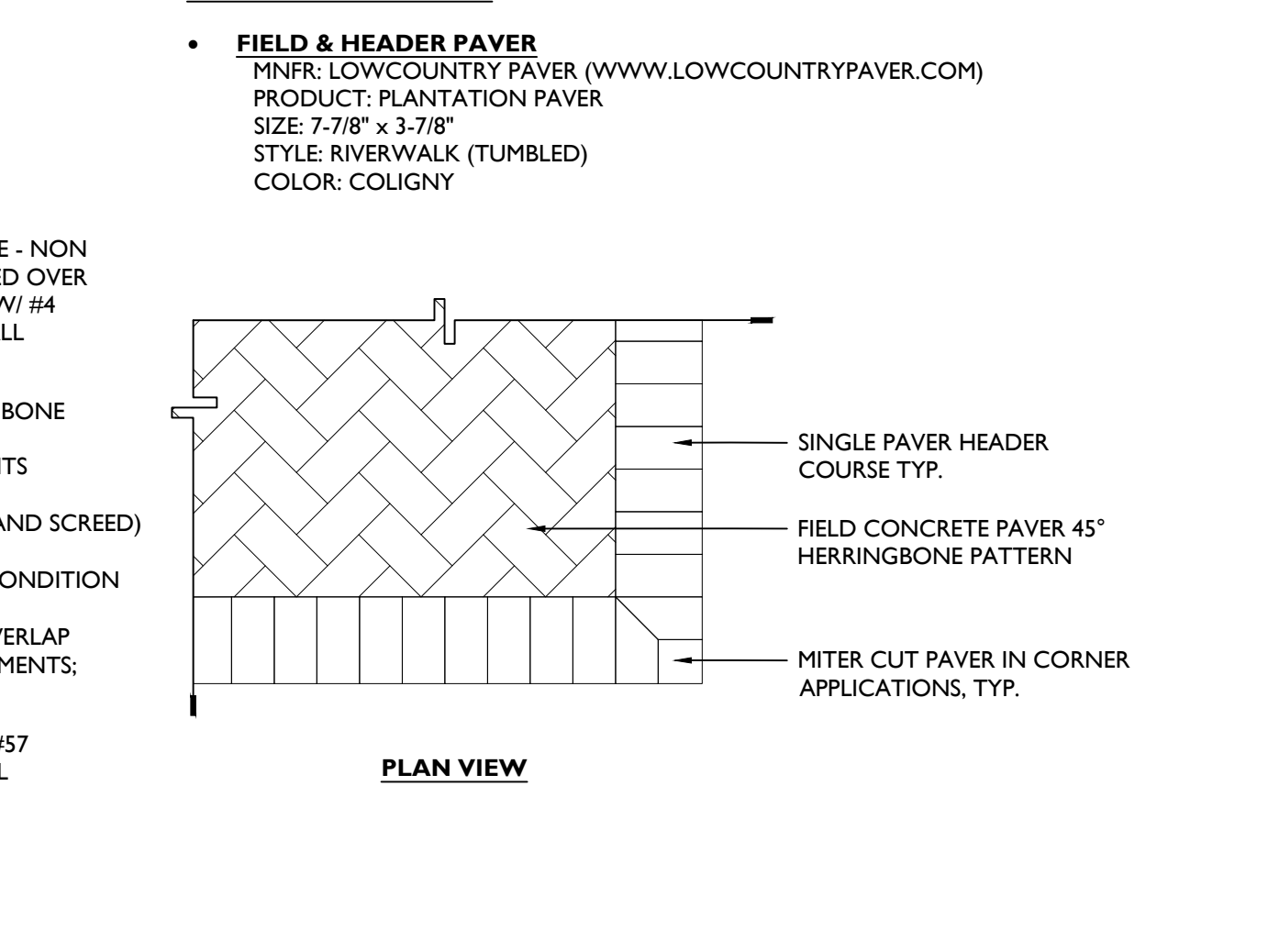
- PROVIDE 5'x5' MOCKUP FOR SIDEWALKS.
- CONTRACTOR TO COORDINATE CONNECTION OF DRAIN LINE TO STORM SYSTEM. REFERENCE CIVIL PLANS FOR ADDITIONAL INFO.
- PLAYGROUND AND PLAYGROUND SAFETY SURFACING, BASE MAT, AND COMPACTED STONE WILL BE PROVIDED AND INSTALLED BY OTHERS. COORDINATE WITH INSTALLER.
- PROVIDE COMPACTED SUBGRADE, FILTER FABRIC, AND PERFORATED PIPE WITH CONNECTIONS TO DRAINAGE SYSTEM, AS PART OF THIS CONTRACT.
- REFER TO SHEET L-102 FOR COLOR INFORMATION.
- GC SHALL POUR PLAYGROUND PERIMETER WALKS (2-5 YEAR AREA AND 5-12 YEAR AREA) IN ADVANCE OF PLAYGROUND INSTALL.
- GC SHALL LEAVE 10-12" CLEAR ACCESS (NO WALK) TO 2-5 YEAR AREA AND 5-12 YEAR AREA FOR PLAYGROUND INSTALL. FOLLOWING PLAYGROUND INSTALL, THIS VOID SHALL BE FILLED.
- FINAL GRADES OF WALKS AND SAFETY SURFACING SHALL BE FLUSH, SO AS TO ELIMINATE TRIP HAZARDS.



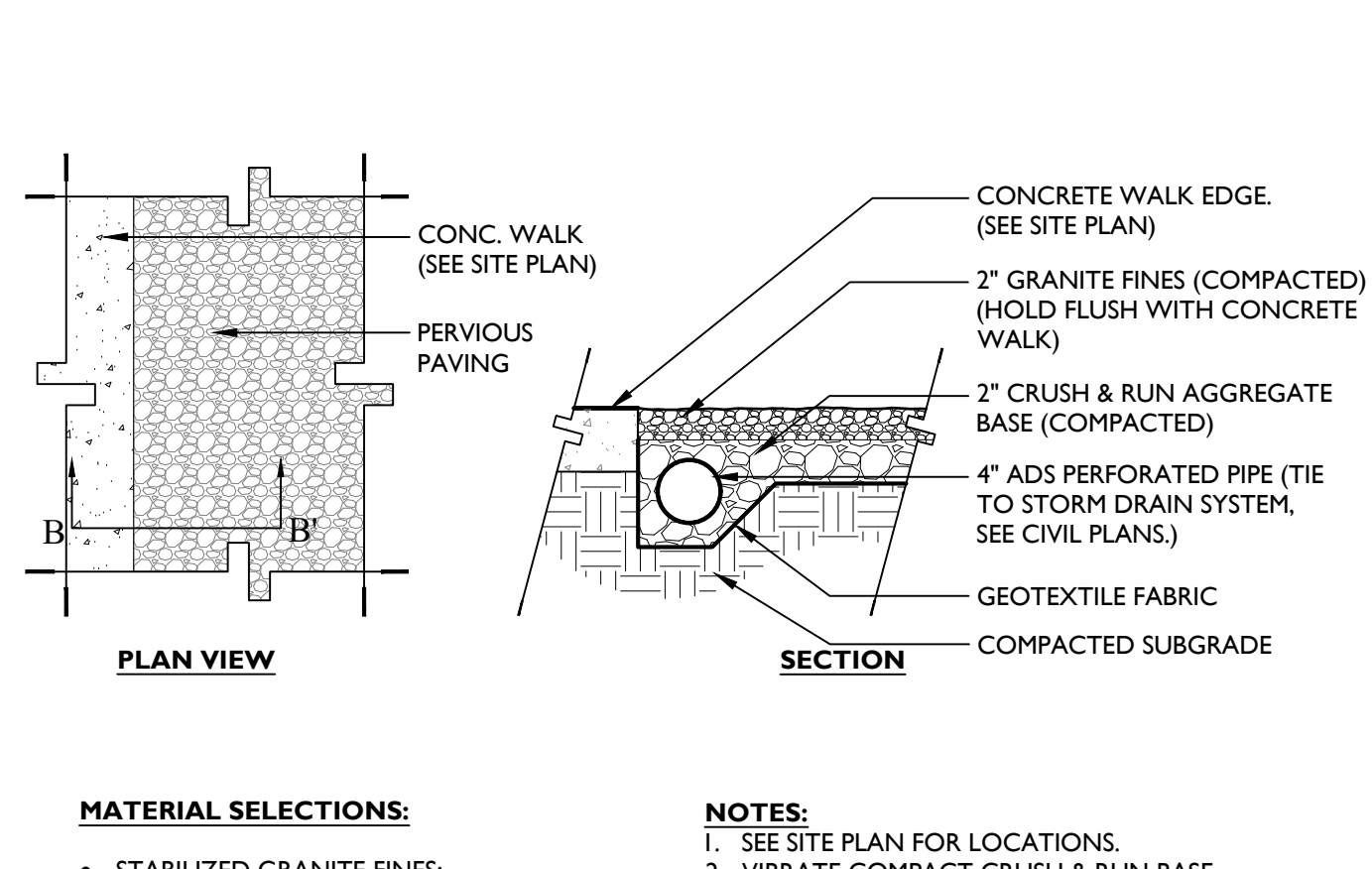
6 PLAYGROUND PERIMETER WALK
1" = 1'-0"

MATERIAL SELECTIONS:

- FIELD & HEADER PAVER**
MNF: LOWCOUNTRY PAVER (WWW.LOWCOUNTRYPAVER.COM)
PRODUCT: PLANTATION PAVER
SIZE: 7-7/8" x 3-7/8"
STYLE: RIVERWALK (TUMBLER)
COLOR: COLIGNY



9 A.D.A. DOME PAVERS AT SIDEWALK
1" = 1'-0"



MATERIAL SELECTIONS:

- STABILIZED GRANITE FINES:**
PROVIDE SAMPLES OF GRANITE FINES FOR APPROVAL.

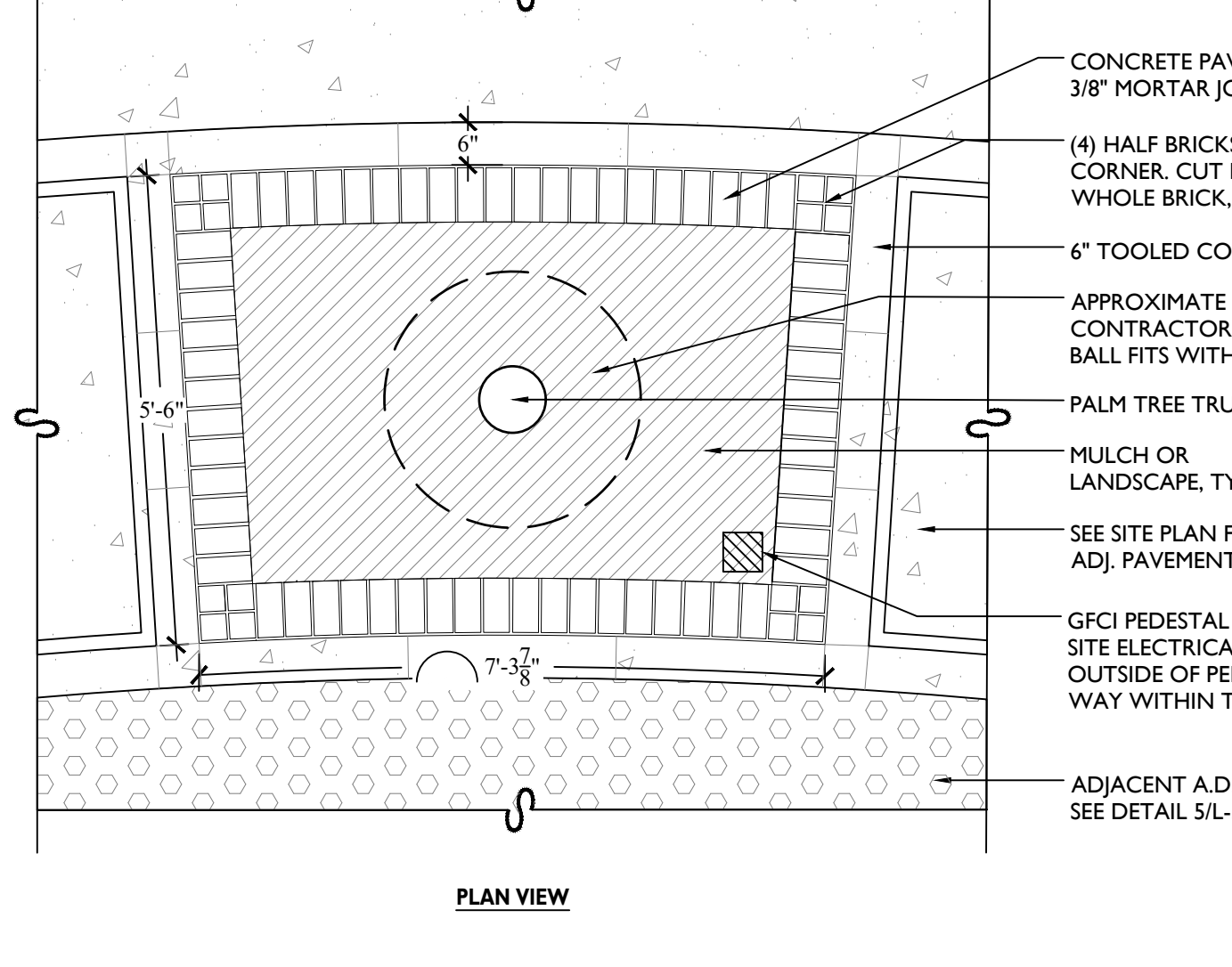
NOTES:

- SEE SITE PLAN FOR LOCATIONS.
- VIBRATE COMPACT CRUSH & RUN BASE.
- PROVIDE 5'x5' MOCKUP FOR APPROVAL PRIOR TO INSTALLATION.

3 SOFT PAVE W/ CONCRETE BORDER
1" = 1'-0"

MATERIAL SELECTIONS:

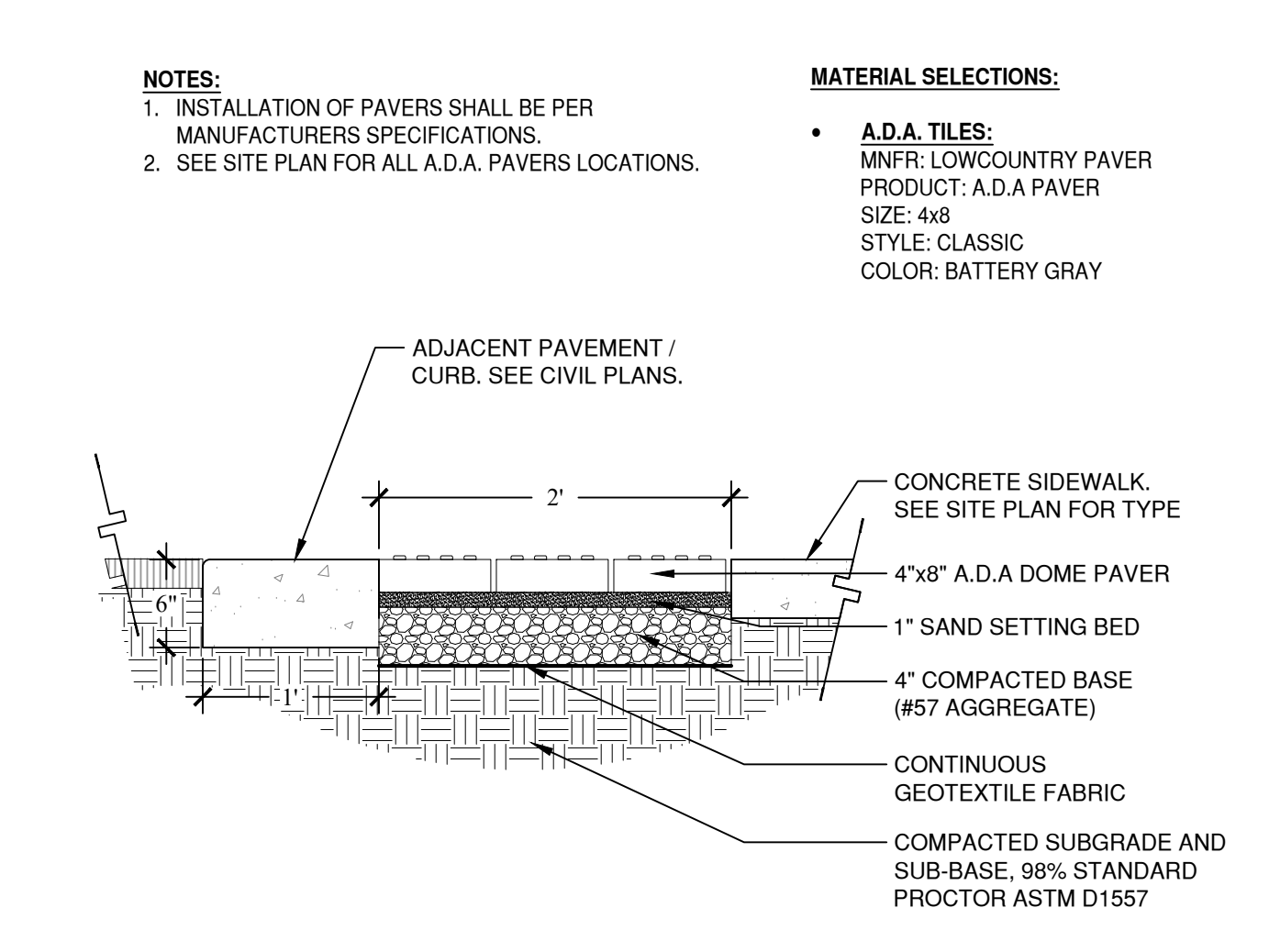
- PLAYGROUND SURFACING**
BY SURFACE INSTALLER, INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
- CONCRETE SIDEWALKS:**
4000 PSI AT 28 DAYS
MEDIUM BROOM FINISH
SEE DETAIL I/L-300



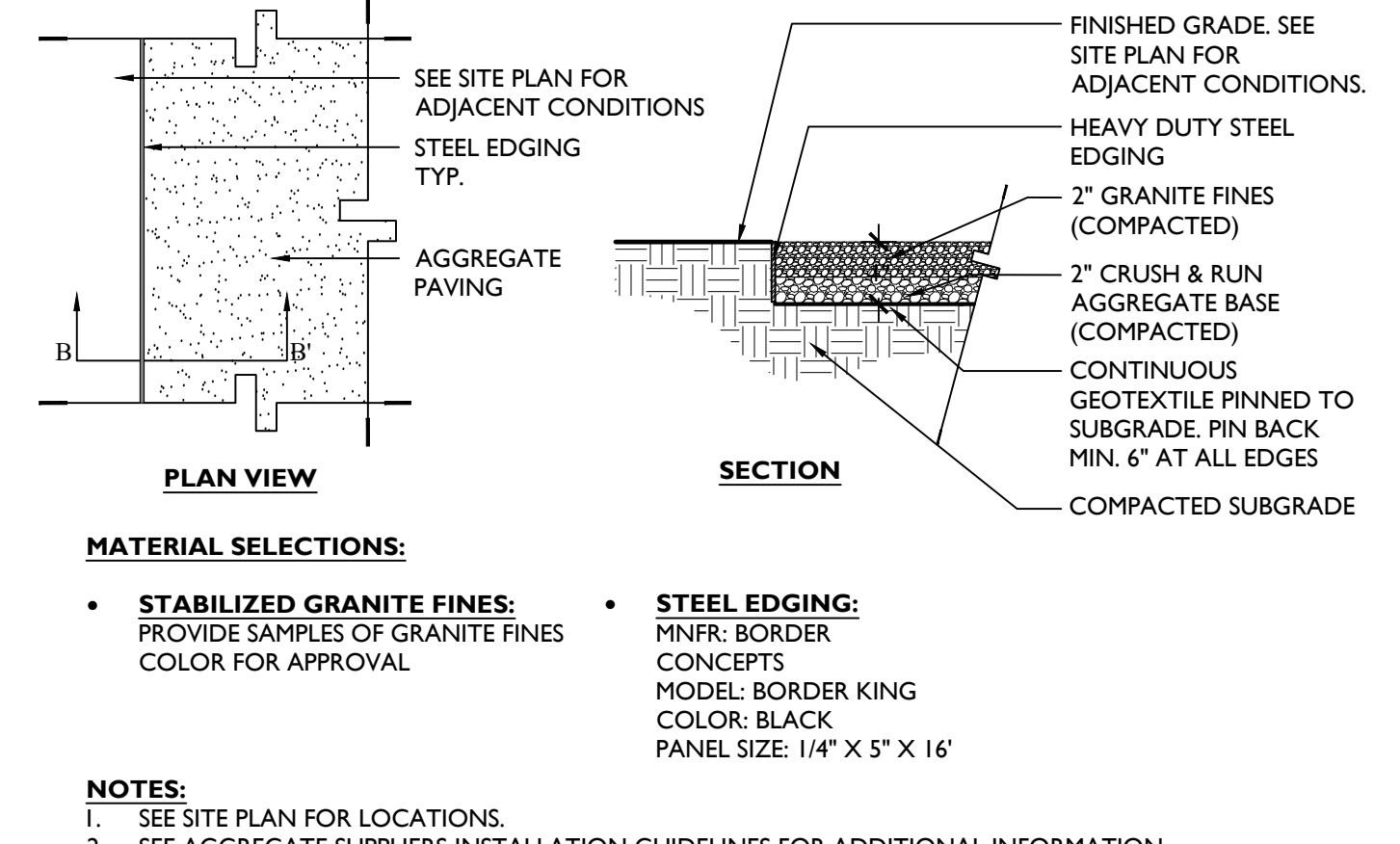
7 PALM TREE WELL
1/2" = 1'-0"

NOTES:

- INSTALLATION OF PAVERS SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
- SEE SITE PLAN FOR ALL A.D.A. PAVERS LOCATIONS.



9 A.D.A. DOME PAVERS AT SIDEWALK
1" = 1'-0"



MATERIAL SELECTIONS:

- STABILIZED GRANITE FINES:**
PROVIDE SAMPLES OF GRANITE FINES COLOR FOR APPROVAL.
- STEEL EDGING:**
MNF: BORDER CONCEPTS
MODEL: BORDER KING
COLOR: BLACK
PANEL SIZE: 1/4" X 5" X 16"

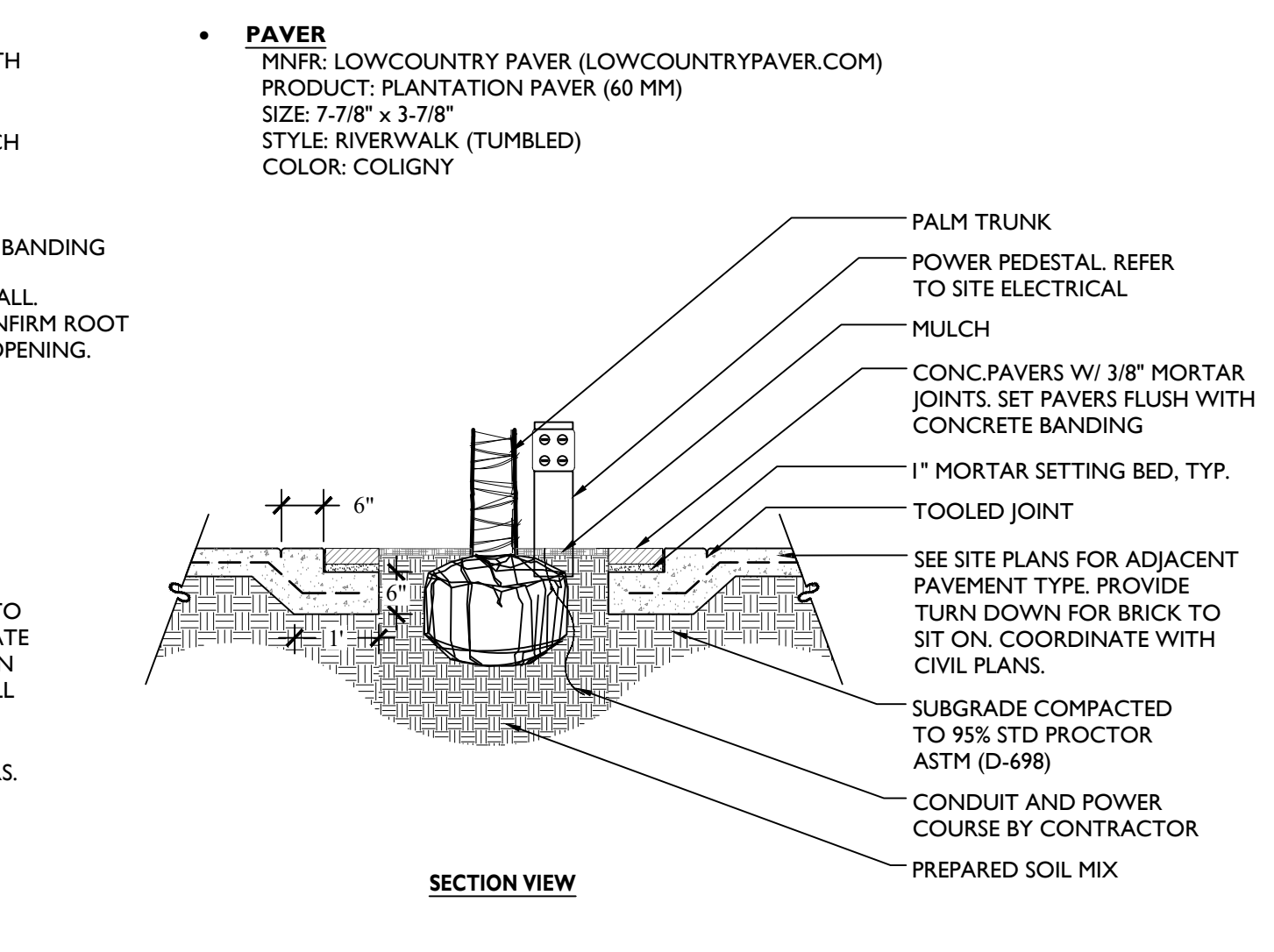
NOTES:

- SEE SITE PLAN FOR LOCATIONS.
- SEE AGGREGATE SUPPLIER'S INSTALLATION GUIDELINES FOR ADDITIONAL INFORMATION.
- VIBRATE COMPACT AGGREGATE BASE & PATH SO THAT COMPACTION MEETS ASTM 1951. PATHWAYS SHALL CONFORM TO ADA STANDARDS.
- PROVIDE SAMPLES OF AGGREGATE FOR APPROVAL PRIOR TO INSTALLATION.
- CONTRACTOR TO PROVIDE 5'x5' MOCKUP / SAMPLE FOR APPROVAL.
- CONTRACTOR SHALL GRADE SIDE OF PATHS SO THAT THERE IS NO WASHOUT OF AGGREGATE MATERIAL FROM EDGES.
- IN AREAS WHERE PATHWAY IS BORDERED BY CONCRETE, ASPHALT, OR OTHER MONOLITHIC SURFACE, NO STEEL EDGING IS REQUIRED.
- PATHS SHALL MEET FLUSH WITH ADJACENT WALKS OR OTHER MONOLITHIC SURFACES.

4 SOFT PAVE W/ STEEL EDGING
1" = 1'-0"

MATERIAL SELECTIONS:

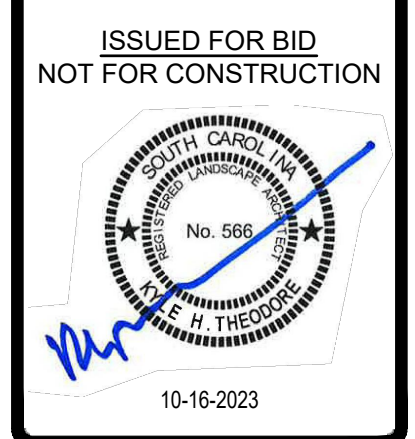
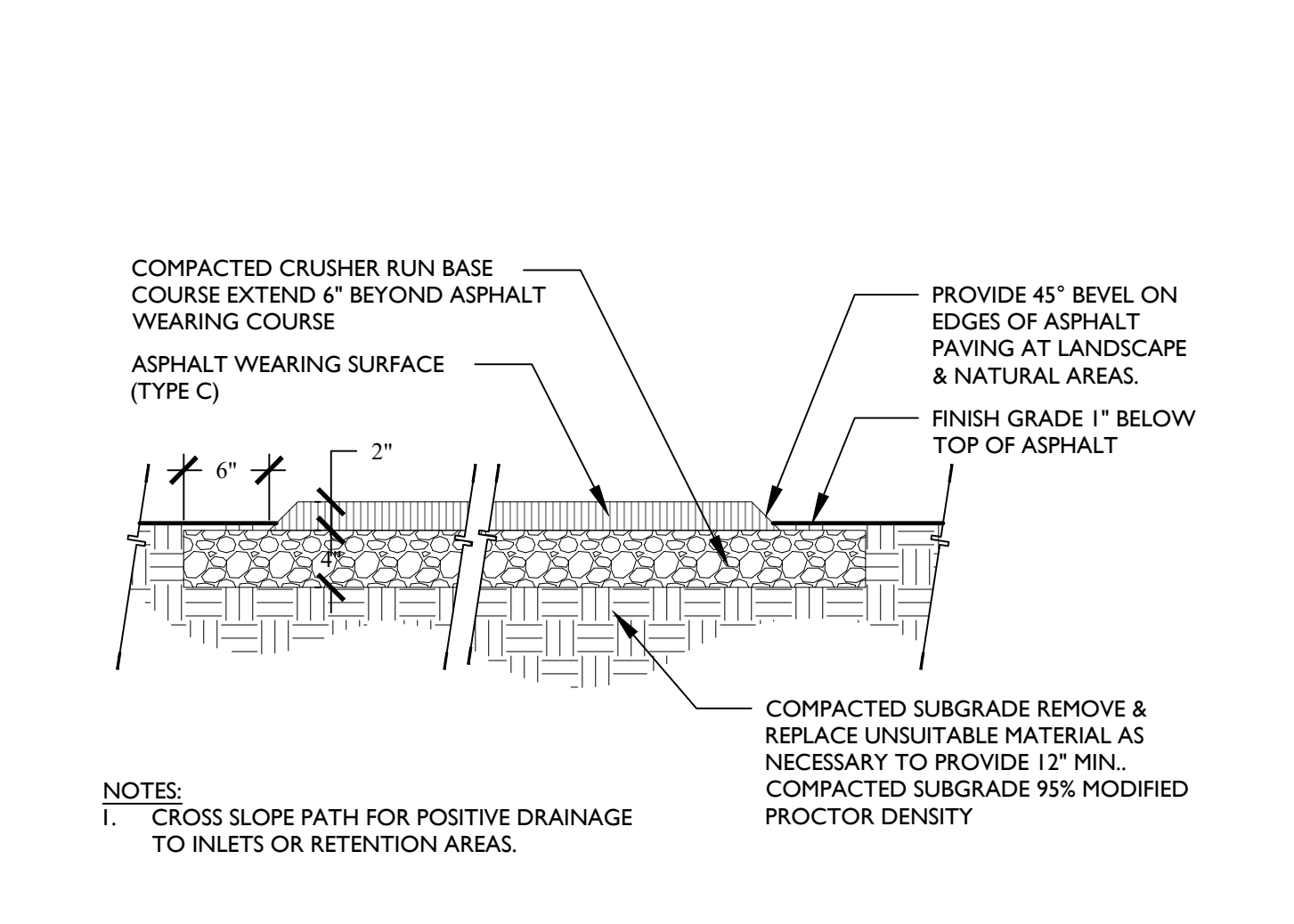
- PAVER**
MNF: LOWCOUNTRY PAVER (LOWCOUNTRYPAVER.COM)
PRODUCT: PLANTATION PAVER (60 MM)
SIZE: 7-7/8" x 3-7/8"
STYLE: RIVERWALK (TUMBLER)
COLOR: COLIGNY



10 ASPHALT TRAIL
1" = 1'-0"

NOTES:

- CROSS SLOPE PATH FOR POSITIVE DRAINAGE TO INLETS OR RETENTION AREAS.



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WOOD+PARTNERS
LANDSCAPE ARCHITECTURE
LAND PLANNING

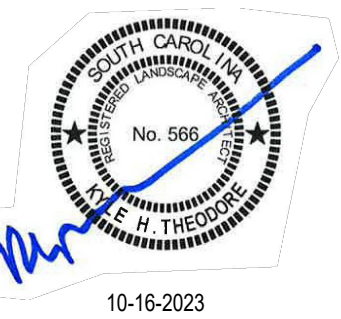
CITY OF BEAUFORT
BEAUFORT, SC 29502
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

DETAILS

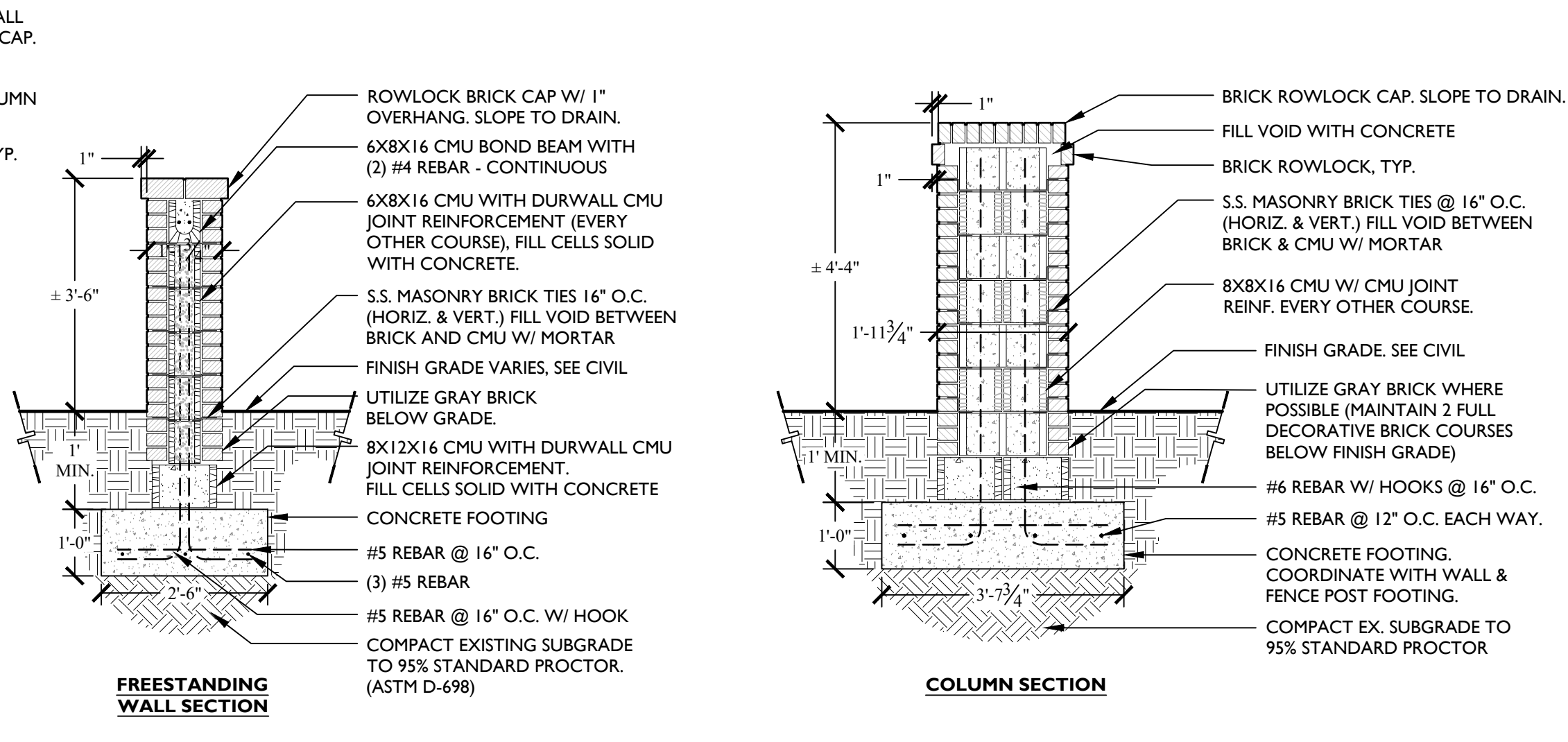
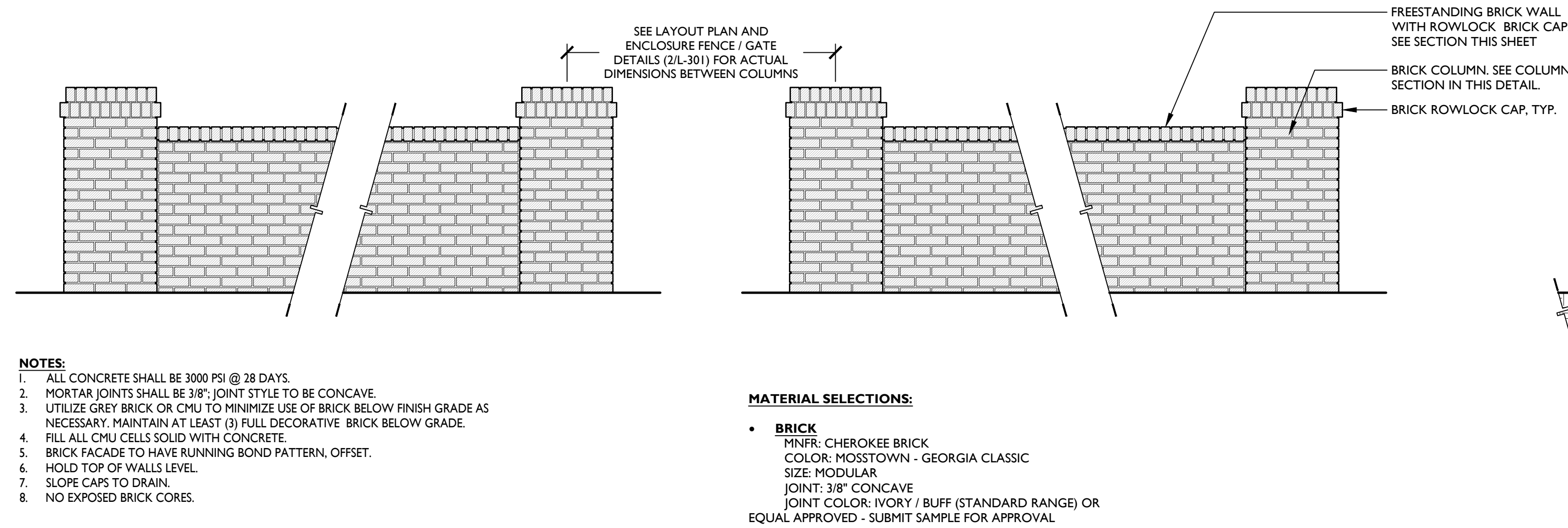
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| 3 | 10/10/2023 | ISSUE FOR BIDDING | TG | TG |
| 4 | 10/10/2023 | ISSUE FOR BIDDING | TG | TG |
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| 8 | 10/10/2023 | ISSUE FOR BIDDING | TG | TG |
| 9 | 10/10/2023 | ISSUE FOR BIDDING | TG | TG |
| 10 | 10/10/2023 | ISSUE FOR BIDDING | TG | TG |

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DATE: 10/10/2023
DRAWN: TG
CHECKED: TG
DATE: 10/10/2023
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DRAWING: PLAYGROUND AREA IMPROVEMENTS
SCALE: AS SHOWN
SHEET: L-300
PAGE: 7 OF 15

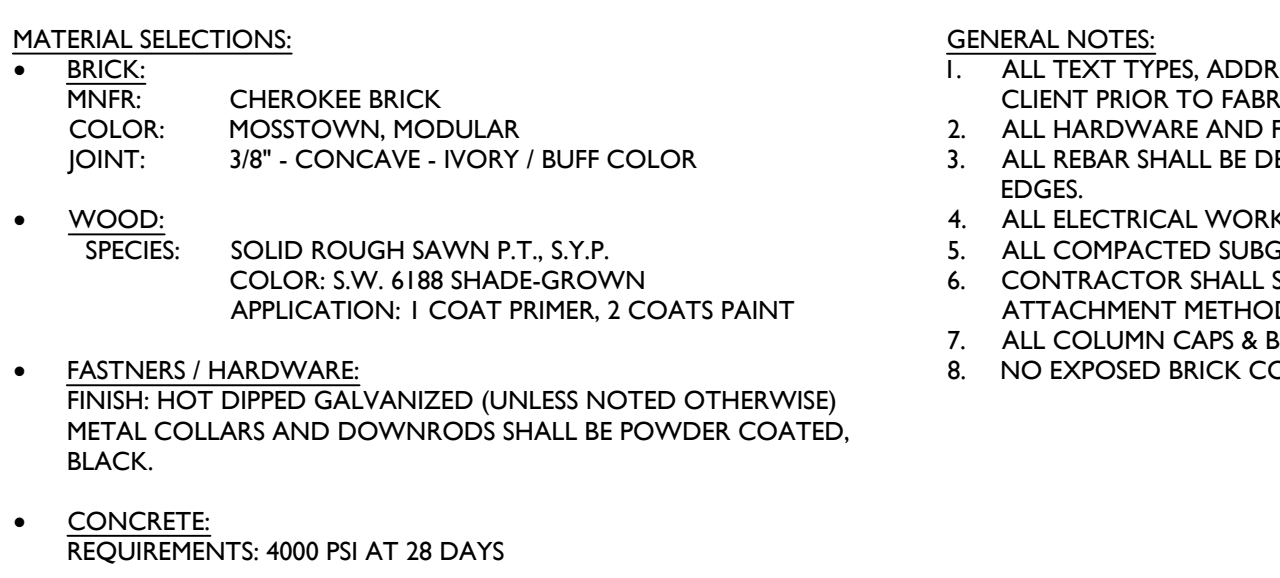
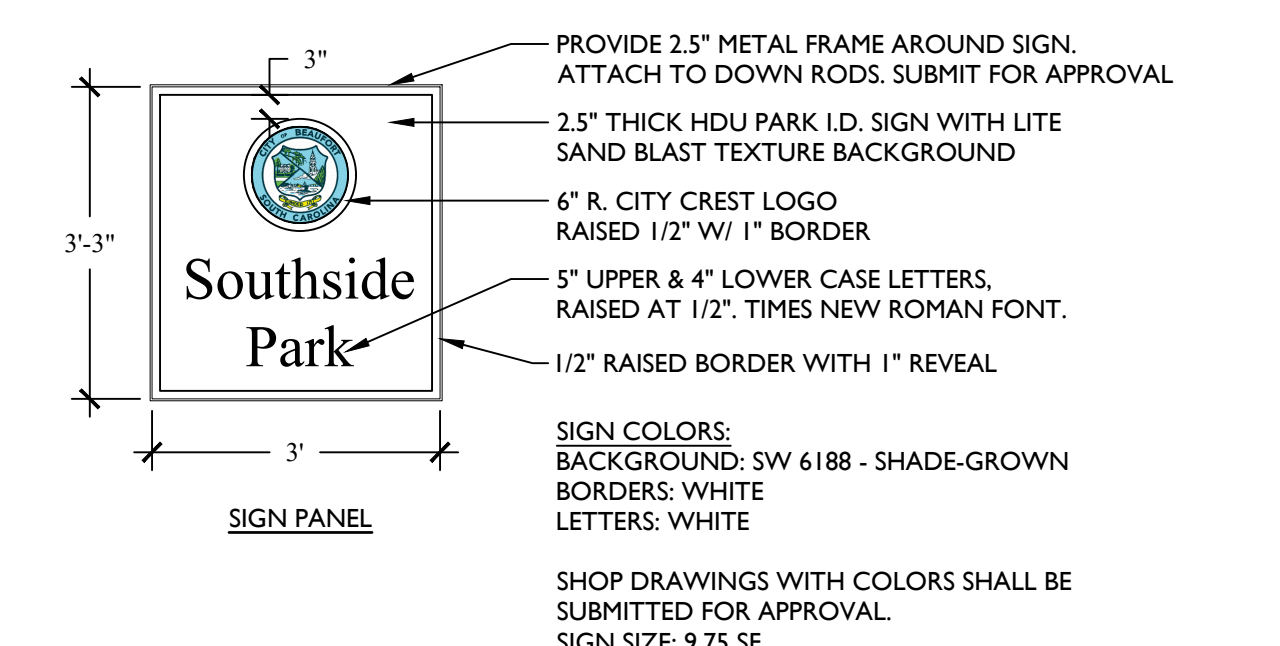
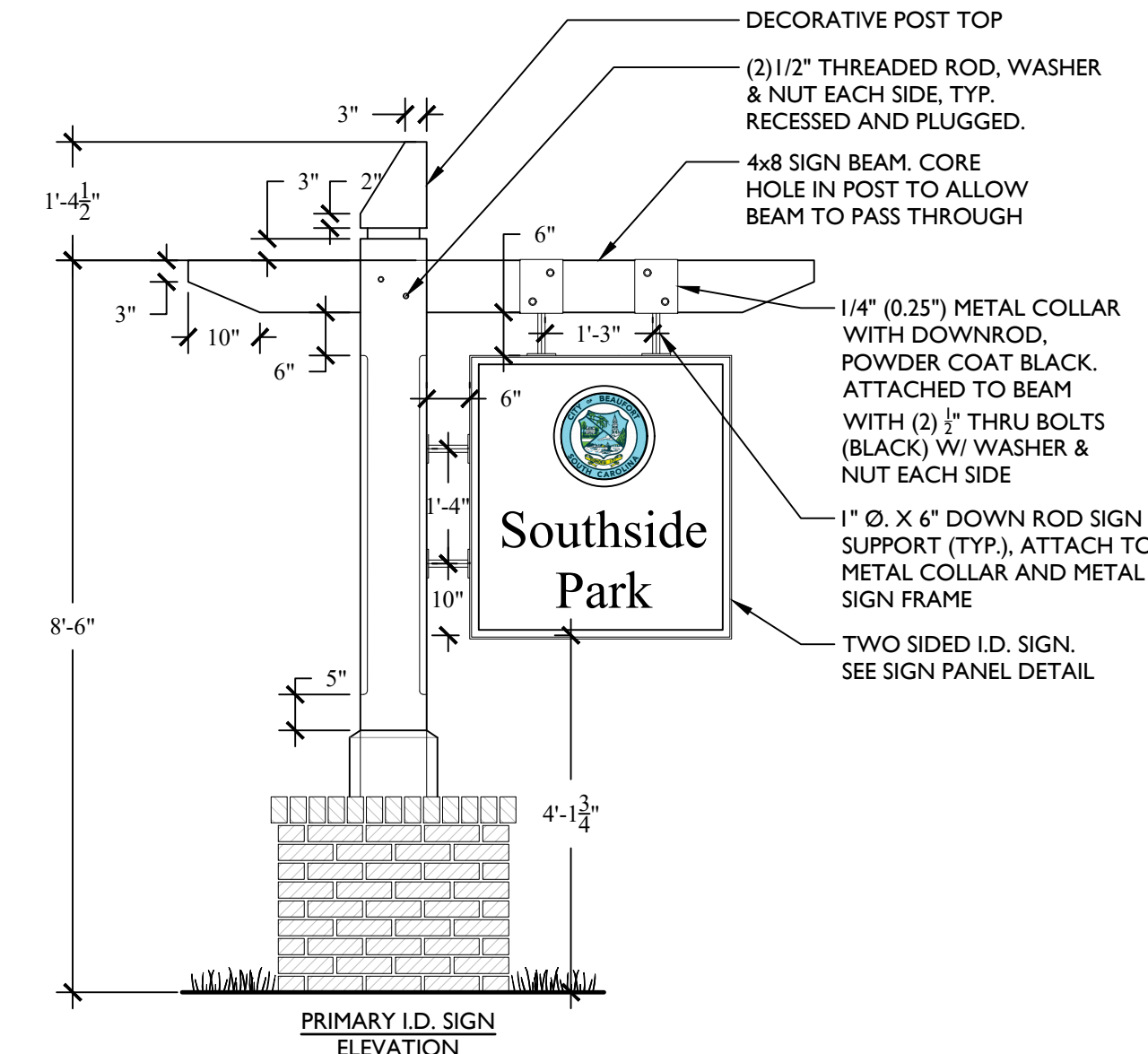
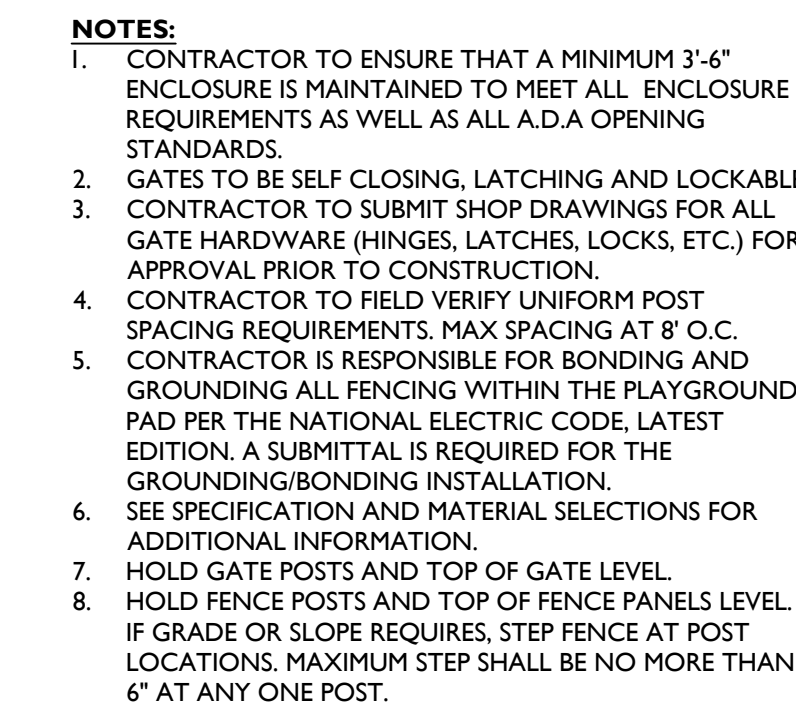
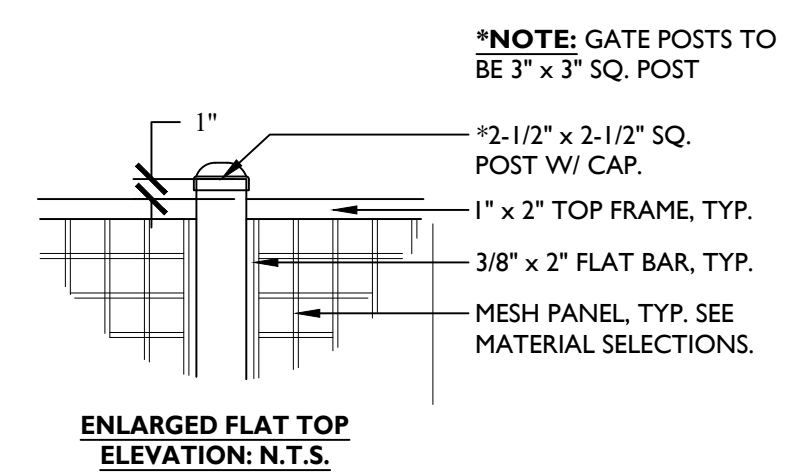
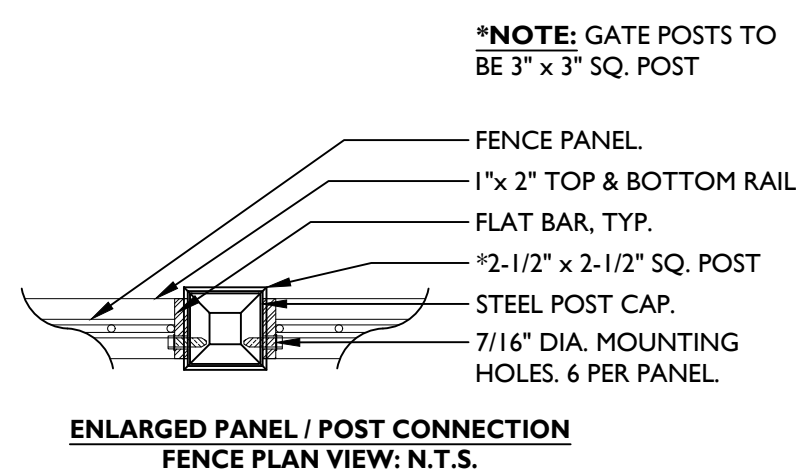
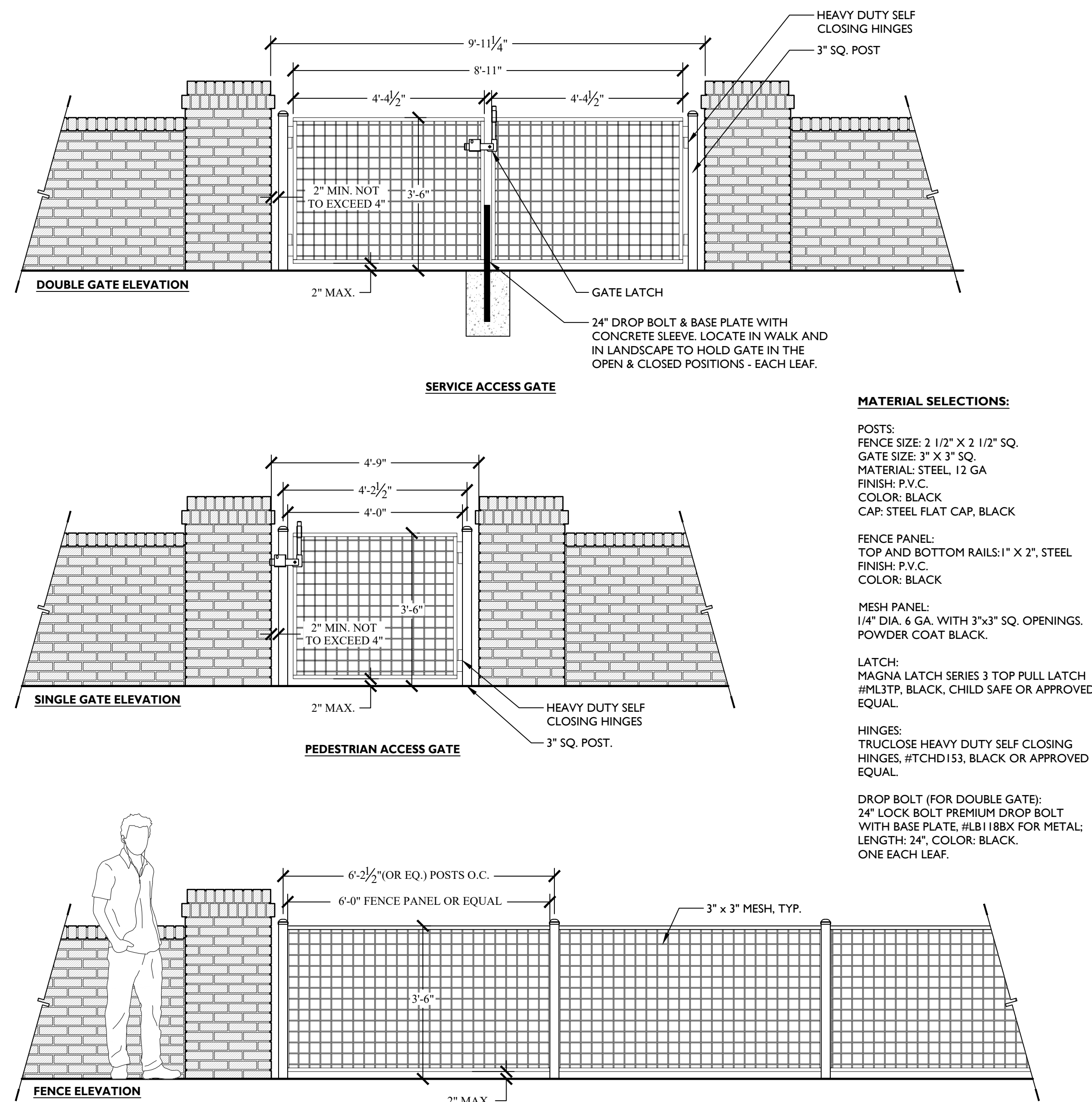
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THESE DRAWINGS AND THE DESIGN THEREON ARE THE PROPERTY OF DAVIS & FLOYD, INC. AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF THE ENGINEER, ARCHITECT AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION



| NO. | DATE | DESCRIPTION | BY | CHKD | APPD |
|-----|------------|-------------------|----|------|------|
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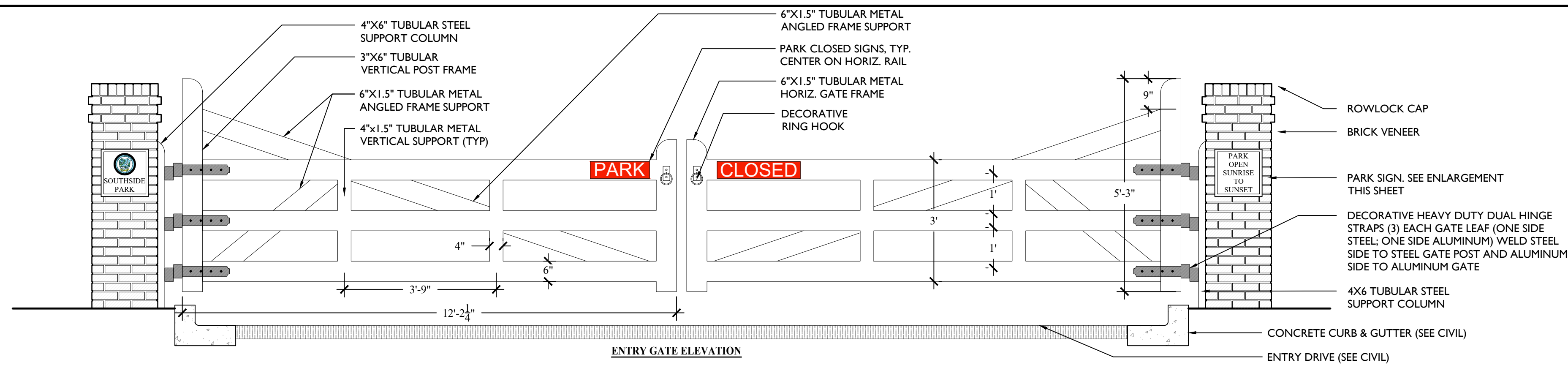
1 FREESTANDING WALL AND ACCENT COLUMNS
1/2" = 1'-0"



3 PARK I.D. SIGN
1/2" = 1'-0"

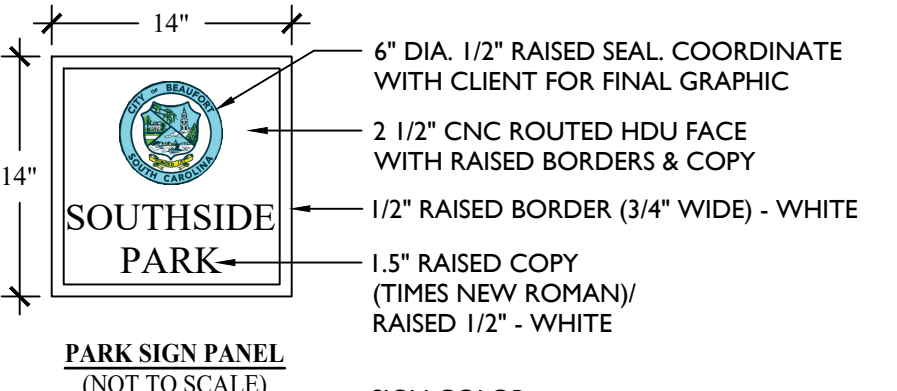
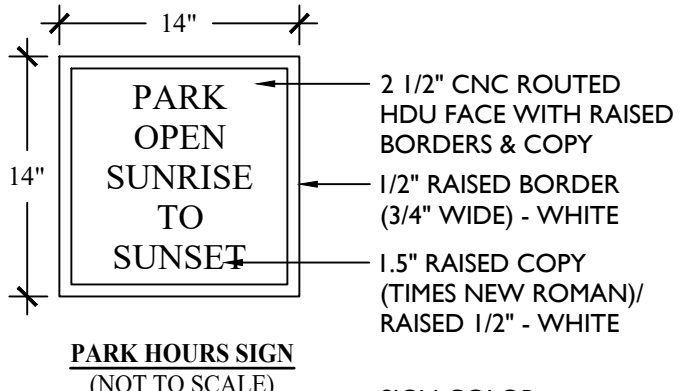
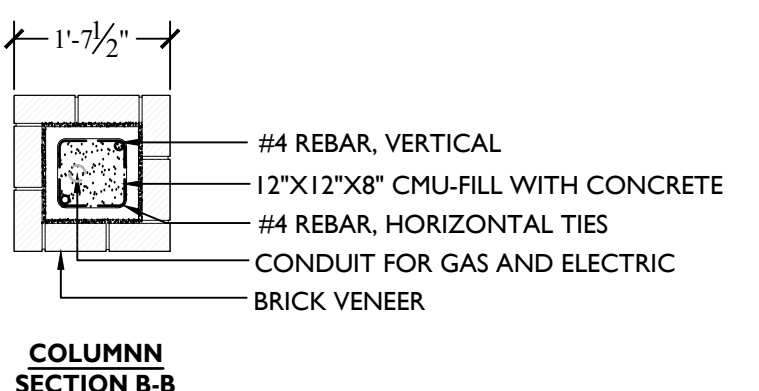
2 METAL PLAYGROUND ENCLOSURE FENCE
1/2" = 1'-0"

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GENERAL NOTES:
 1. ALL REBAR SHALL BE DE-FORMED & MAINTAIN A MIN OF 3" FROM ALL CONCRETE FOOTING EDGES.
 2. ALL ELECTRICAL WORK SHALL MEET LOCAL & STATE CODES. ROUTE CONDUIT THROUGH CENTER OF COLUMN OR CMU CELL.

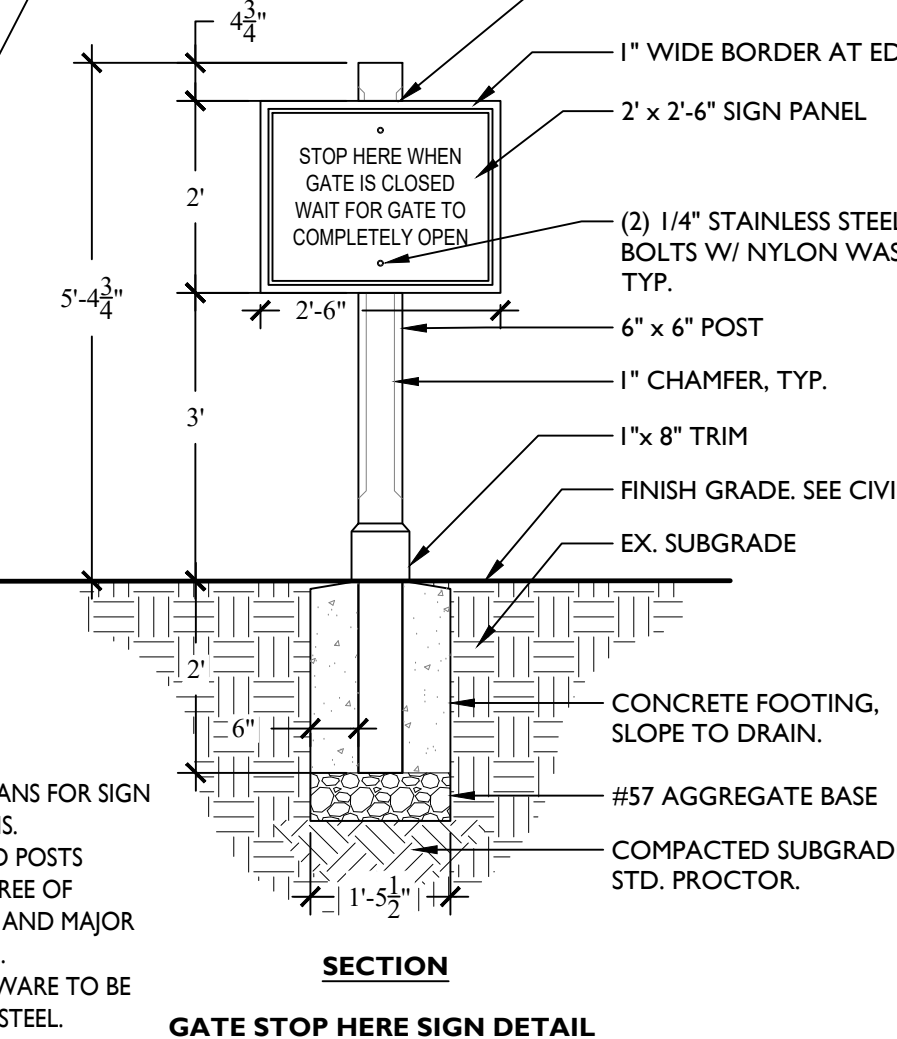
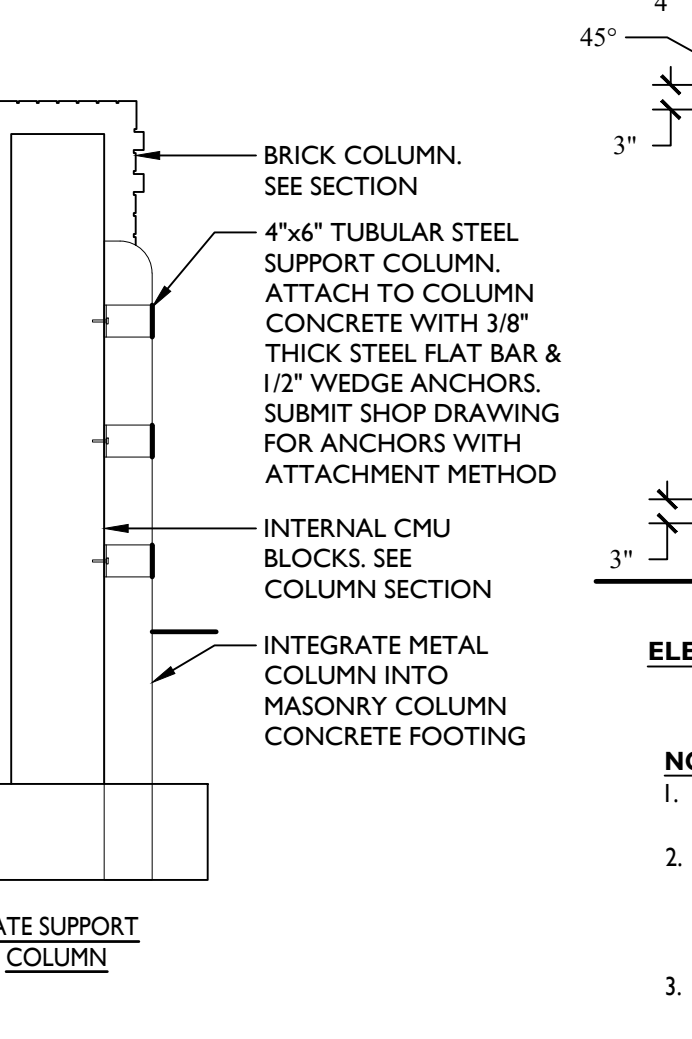
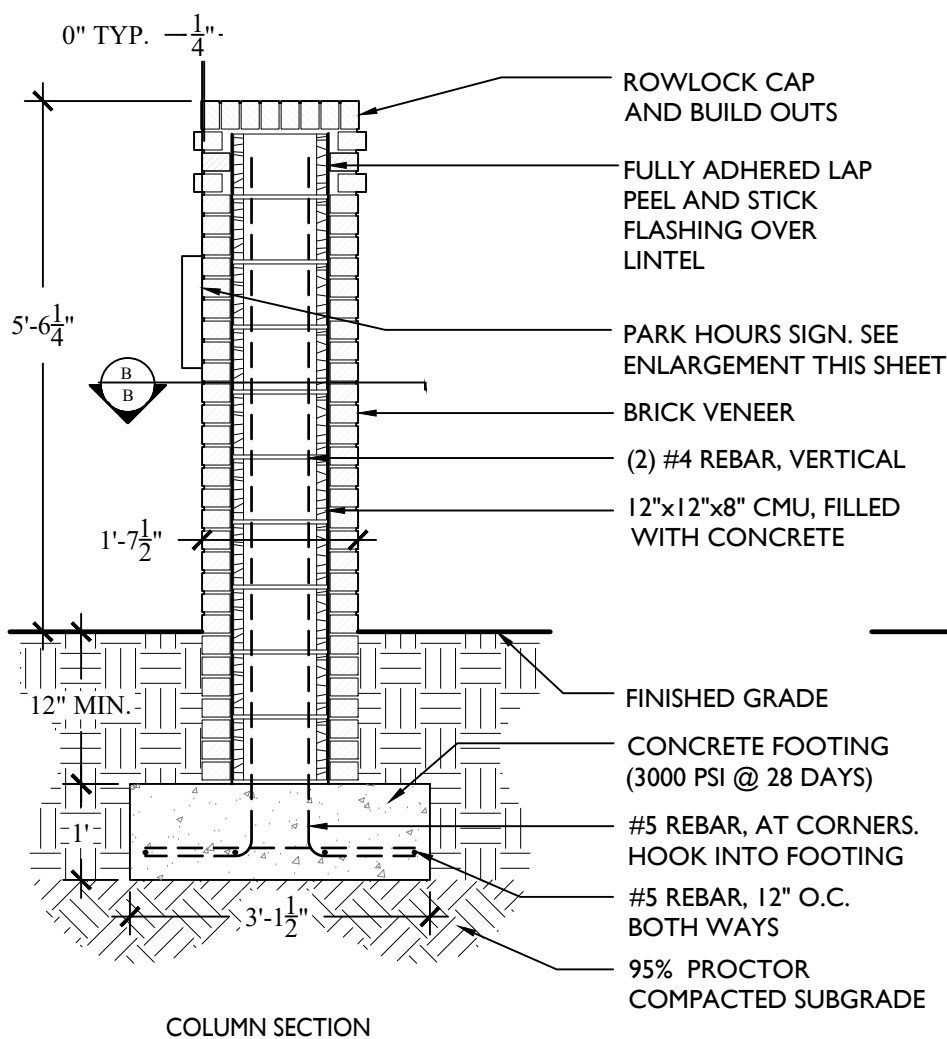
GATE NOTES:
 1. GATE DETAIL IS CONCEPTUAL IN NATURE & IS PROVIDED AS A GUIDE FOR FABRICATION. SHOP DRAWINGS OF THE FINAL DESIGN TO BE SUBMITTED TO & APPROVED BY OWNERS REP PRIOR TO FABRICATION.
 2. CONTRACTOR RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, GATE LAYOUT, CONNECTIONS AND CLEARANCES. REPORT ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 3. ALL METAL SHALL BE POWDER COATED. COLOR TO BE BLACK.
 4. ALL ALUMINUM GATE COMPONENTS SHALL BE 1/4" THICK MINIMUM.
 5. GATES TO BE EQUIPPED WITH AUTOMATED OPENING HARDWARE. ALL KEYPADS, WEIGHT SENSORS, ETC. ASSOCIATED WITH GATE OPERATION SHALL BE INCLUDED IN ALL SHOP DRAWINGS. CONTRACTOR SHALL SUBMIT ALL EQUIPMENT FOR APPROVAL PRIOR TO INSTALLATION. SEE ELECTRICAL NOTES BELOW.
 6. AUTOMATIC GATE SYSTEM SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS, INCLUDING COMPLIANCE WITH UL325 AND ASTM F2200.
 7. CONTRACTOR SHALL COORDINATE WITH OWNERS REPRESENTATIVE FOR FINAL GATING AND CONTROLLED ENTRANCE SYSTEM PREFERENCES.
 8. GATING ACCESS SYSTEM SHALL INCLUDE ALL REQUIRED GATE OPERATORS, KEY PAD(S), KNOCK BOX AND LOOP DETECTION DEVICES, ETC. IN ORDER TO PROVIDE COMPLETE AND OPERABLE SYSTEM. GATE OPERATORS SHALL BE PAD MOUNTED PER MANUFACTURER'S REQUIREMENTS.
 9. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL, RFD, & OR TELEPHONE REQUIREMENTS OR AS SELECTED BY OWNER.
 10. SWING GATE OPERATORS SHALL BE COMPATIBLE WITH FINAL GATE WEIGHT AND DESIGN.
 11. ALL WELDS SHALL BE CONTINUOUS & GROUND SMOOTH PRIOR TO POWDER COATING. FIELD WELDS WILL NOT BE APPROVED.
 12. GATE OPERATOR SHALL BE PAD MOUNTED DIRECTLY BEHIND COLUMN. PROVIDE ALL REQUIRED CONDUIT AND ELECTRICAL CONNECTIONS. SUBMIT FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.
 13. PROVIDE "CLICK TO ENTER" AND PEDESTAL MOUNTED KEYPAD FOR EMERGENCY ACCESS AS REQUIRED BY CITY OF BEAUFORT.



PARK CLOSED SIGNS
PARK - 1/8\"/>
CLOSED - 1/8\"/>
 MATERIAL SELECTIONS:
 • BRICK: MNFR: CHEROKEE BRICK. COLOR: MOSS/TOWN MODULAR. JOINT: 3/8\"/>
 • CONCRETE: REQUIREMENTS: 4000 PSI AT 28 DAYS.
 • GATES: METAL GATE LEAF: 1/4\"/>
 • HINGES: STYLE: DECORATIVE STRAP. COLOR: POWDER COATED BLACK. INDUSTRIAL GRADE.
 • WOOD POST: SPECIES: #1 SELECT P.T. KDAT S.Y.P. COLOR: S.W. 6188 SHADE-GROWN (1 COAT PRIMER, 2 COATS PAINT).
 • STOP HERE SIGN PANEL: COMPOSITE MATERIAL. MNFR: JELD-WEN. MODEL: EXTRA. COLOR: SW6188: SHADE GROWN. LETTERS & BORDER: SW7006 EXTRA WHITE. FONT: TIMES NEW ROMAN.

MATERIAL SELECTIONS:
 • BRICK: MNFR: CHEROKEE BRICK. COLOR: MOSS/TOWN MODULAR. JOINT: 3/8\"/>
 • CONCRETE: REQUIREMENTS: 4000 PSI AT 28 DAYS.
 • GATES: METAL GATE LEAF: 1/4\"/>
 • HINGES: STYLE: DECORATIVE STRAP. COLOR: POWDER COATED BLACK. INDUSTRIAL GRADE.
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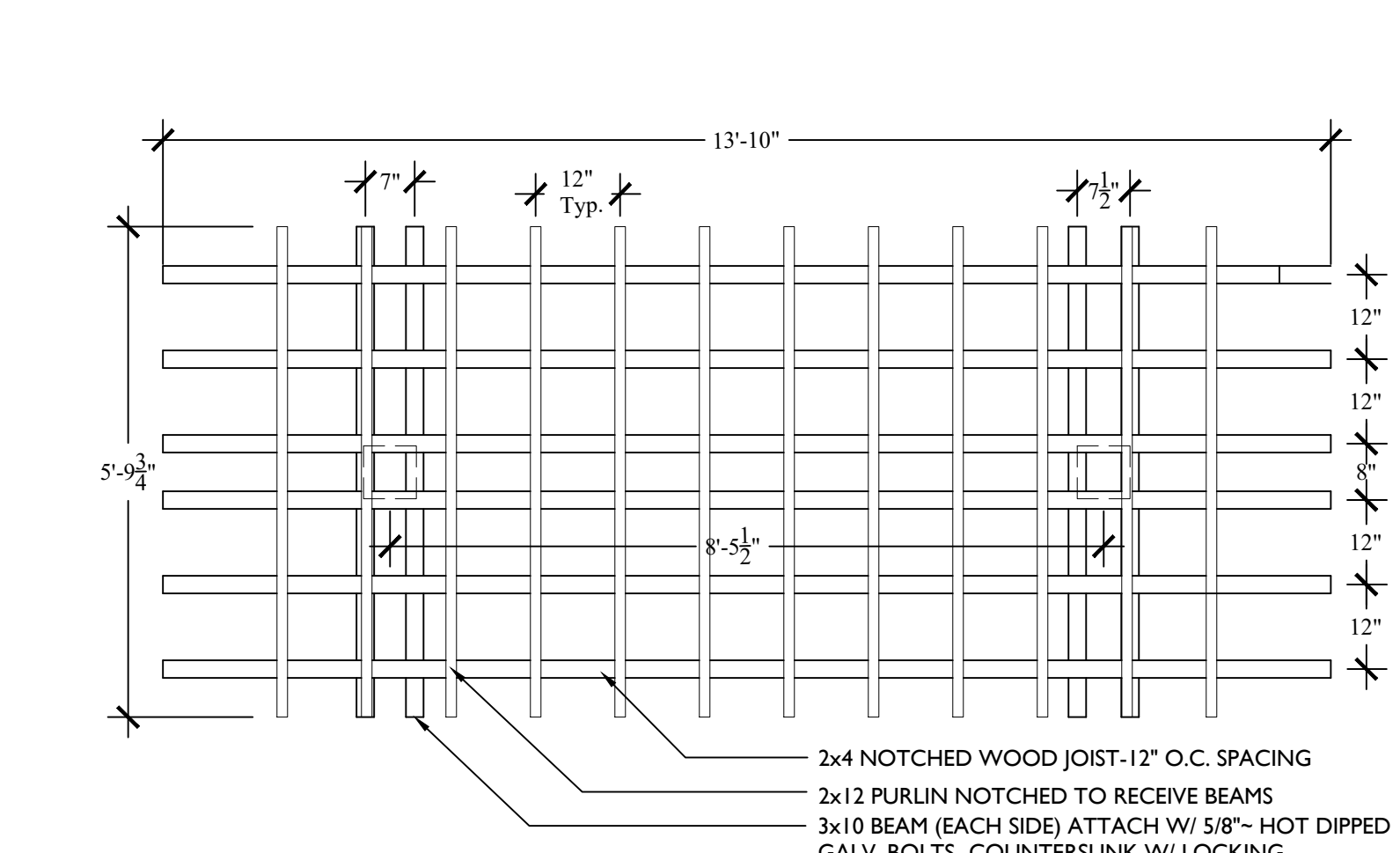
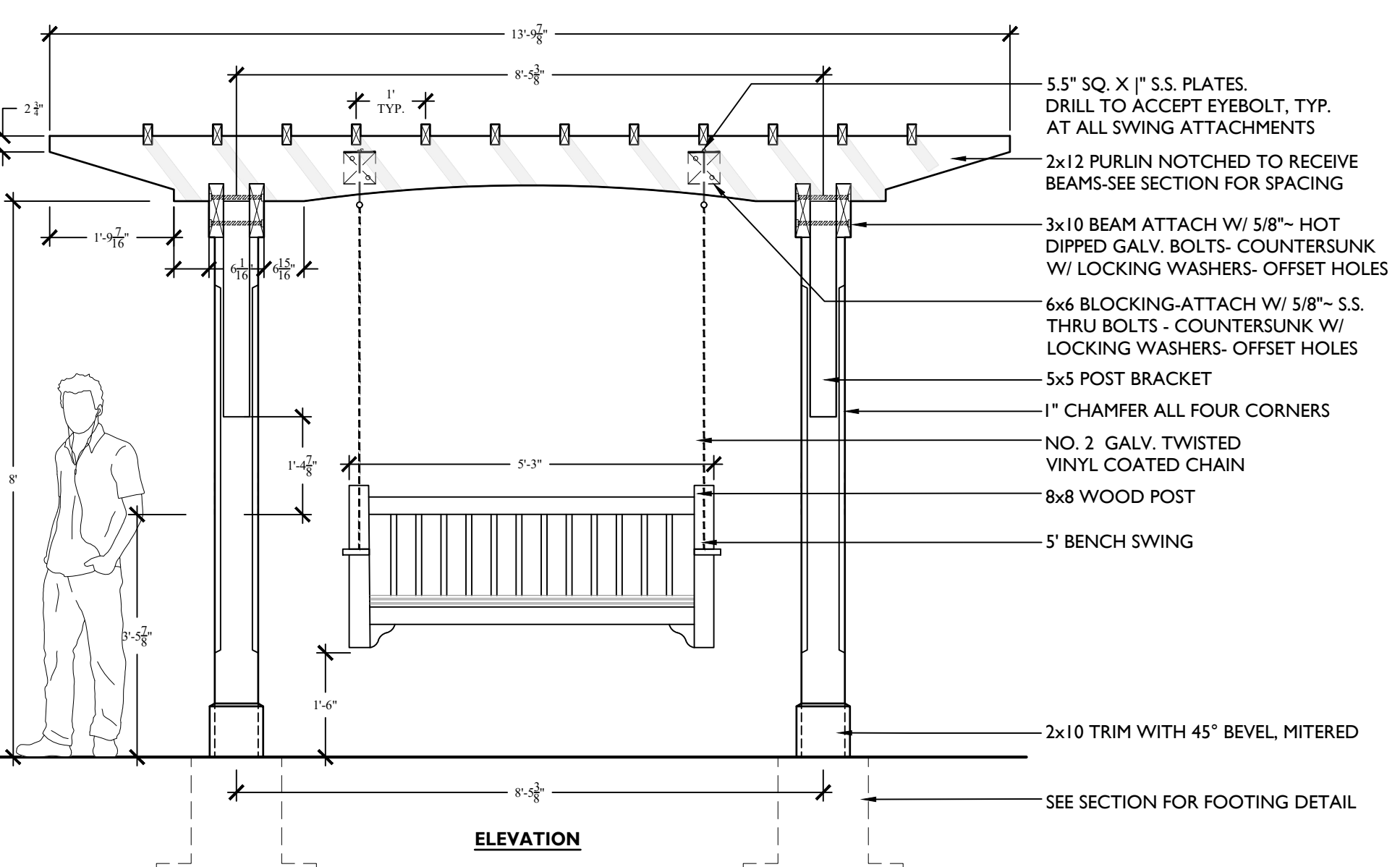
ELECTRICAL NOTES:
 1. CONTRACTOR IS RESPONSIBLE FOR ALL POWER CONNECTIONS, WIRING, AND CONDUIT AS NEEDED FOR GATE OPERNER. REFER TO SITE ELECTRICAL PACKAGE FOR PANEL CONNECTIONS.
 2. PROVIDE PRIMARY AND SECONDARY INDUSTRIAL GRADE, HARD WIRE, GATE OPERATED OPENER FOR EACH GATE OPENER.
 3. PROVIDE ALL CONDUIT AND JUNCTION BOXES FOR CONNECTION TO THE MOTORIZED GATES FROM POWER SOURCE. COORDINATE MOUNTING OF RECEIVER, JUNCTION BOXES, POWER REQUIREMENTS AND CONNECTIONS WITH THE EQUIPMENT MANUFACTURER. METHOD AND LOCATION TO BE COORDINATED WITH AND APPROVED BY OWNER.
 4. SYSTEM SHALL INCLUDE ASTRONOMICAL TIME CLOCK WIRED INSIDE OF THE PRIMARY OPERATOR. OPERATOR TO BE ACCESS BY AUTHORIZED PERSONNEL AT ANY TIME. SYSTEM TO ALSO INCLUDE APPROPRIATE MOUNTING HARDWARE AND ADEQUATE HORSEPOWER TO OPERATE MOTOR SUPPORTING THE WEIGHT OF EACH GATE LEAF.
 5. INCLUDE BURIED PAVEMENT LOOP DETECTOR TO ALLOW VEHICLES TO EXIT IF GATES ARE CLOSED.
 6. PROVIDE 44\"/>



NOTES:
 1. SEE SITE PLANS FOR SIGN LOCATIONS.
 2. ALL WOOD POSTS SHALL BE FREE OF WARPING, AND MAJOR CHECKING.
 3. ALL HARDWARE TO BE STAINLESS STEEL.

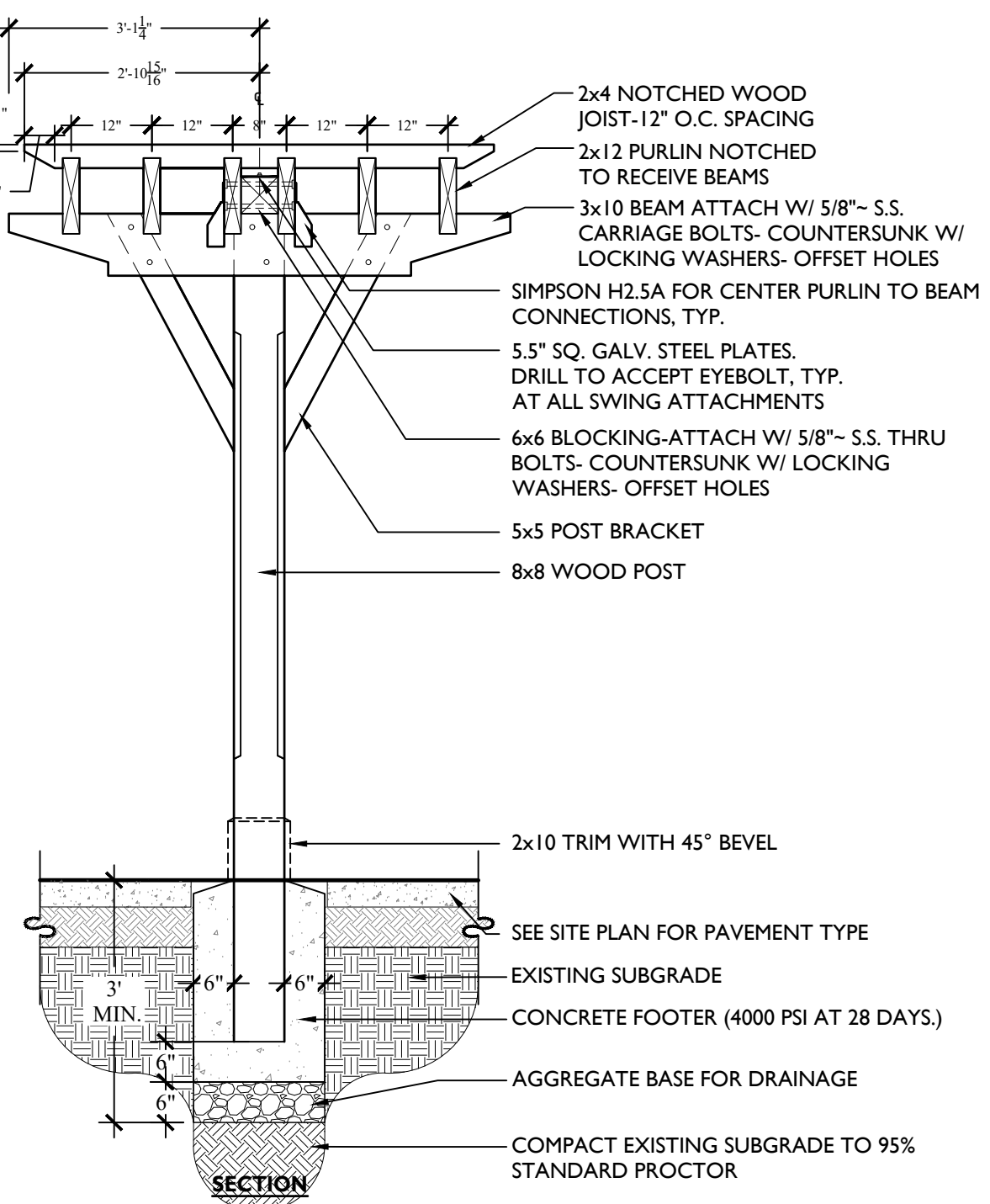
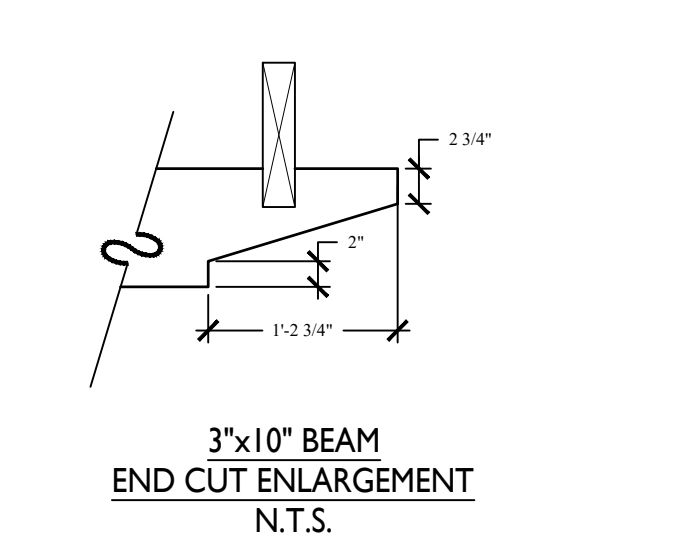
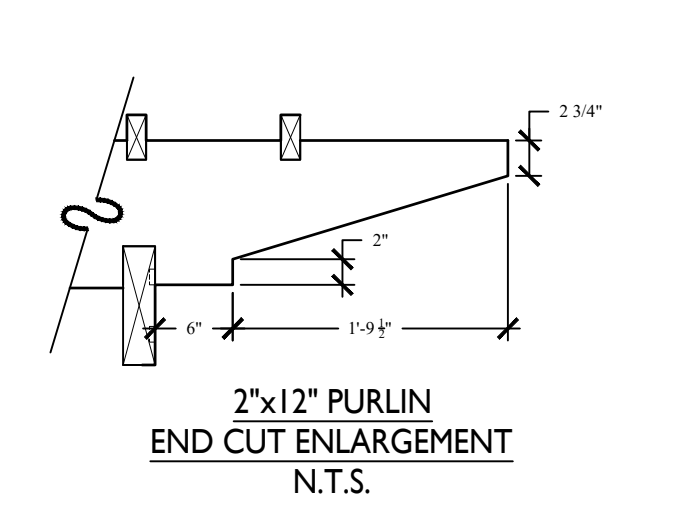
GATE STOP SIGN MATERIAL SELECTIONS:
 • WOOD POST: SPECIES: #1 SELECT P.T. KDAT S.Y.P. COLOR: S.W. 6188 SHADE-GROWN (1 COAT PRIMER, 2 COATS PAINT).
 • STOP HERE SIGN PANEL: COMPOSITE MATERIAL. MNFR: JELD-WEN. MODEL: EXTRA. COLOR: SW6188: SHADE GROWN. LETTERS & BORDER: SW7006 EXTRA WHITE. FONT: TIMES NEW ROMAN.

1 DECORATIVE VEHICULAR GATE
 1/2" = 1'-0"

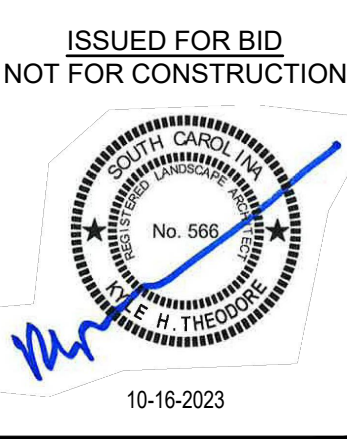
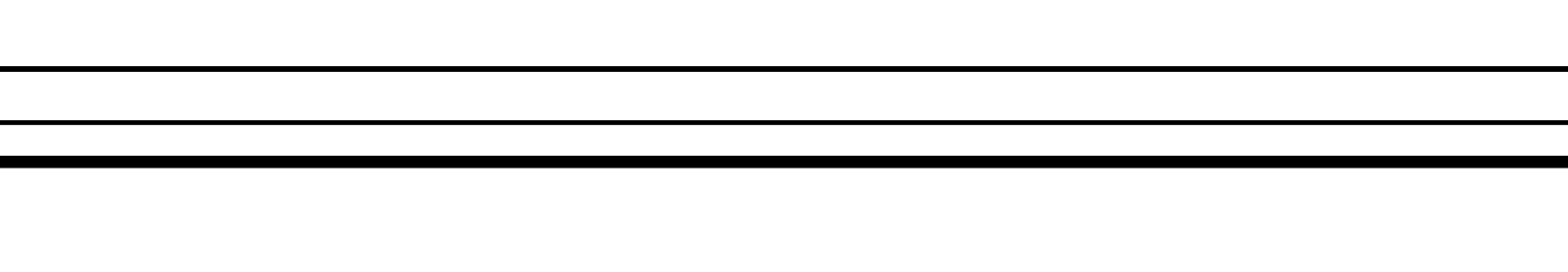


NOTES:
 1. ALL WOOD SHALL BE ROUGH SOLID S.Y.P.
 2. ALL HARDWARE AND FASTENERS SHALL BE STAINLESS STEEL (S.S.)

MATERIAL SELECTIONS:
 • BENCH: MNFR: COUNTRY CASUAL TEAK. PRODUCT: WINDSOR S' SWING. MODEL #: 4407. CEILING HEIGHT: 8'. FINISH: TEAK WATER AND STAIN GUARD.
 • WOOD: SPECIES: SOLID ROUGH SAWN P.T., S.Y.P. COLOR: S.W. 6188 SHADE-GROWN. APPLICATION: 1 COAT PRIMER, 2 COATS PAINT.
 • FASTENERS / HARDWARE: FINISH: HOT DIPPED GALVANIZED (UNLESS NOTED OTHERWISE).
 • CONCRETE: 4000 PSI AT 28 DAYS.



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



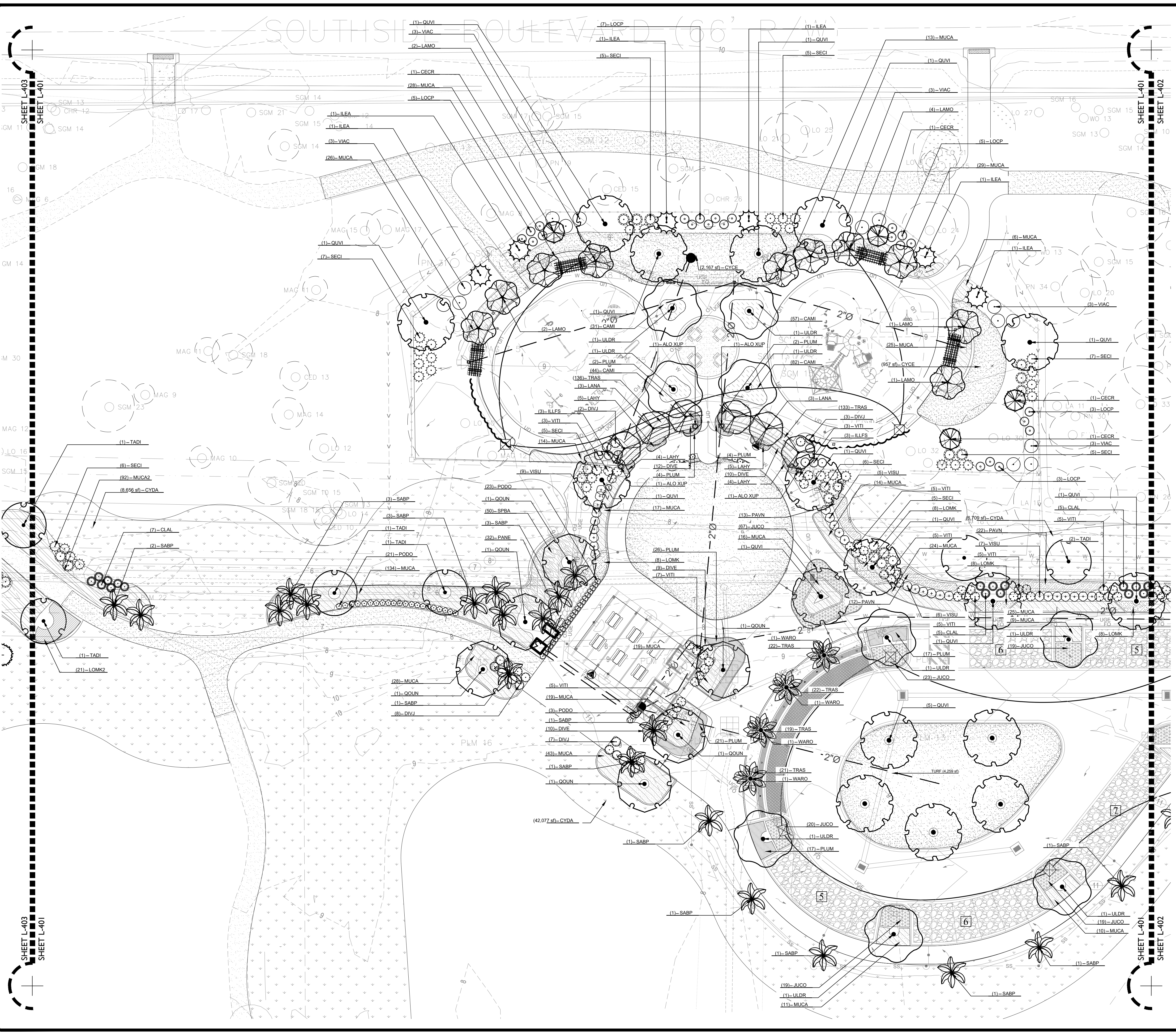
DAVIS & FLOYD
 SINCE 1954
 WWW.DAVISANDFLOYD.COM
WOOD+PARTNERS
 LANDSCAPE ARCHITECTURE
 LAND PLANNING

CITY OF BEAUFORT
 BEAUFORT, SC 29502
SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

| NO. | DATE | DESCRIPTION | BY | CHECKED |
|-----|------------|-------------------|----|---------|
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| 2 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 3 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 4 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
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| 12 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
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| 34 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 35 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 36 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 37 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 38 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 39 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 40 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 41 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 42 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 43 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 44 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 45 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 46 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 47 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 48 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 49 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |
| 50 | 10/16/2023 | ISSUE FOR BIDDING | TD | TD |

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PLANT SCHEDULE

| PLANT TYPE | BOTANICAL / COMMON NAME |
|-------------------------|---|
| PALM TREES | <i>Sabal palmetto</i> / Sabal Palm |
| | <i>Washingtonia robusta</i> / Mexican Fan Palm |
| CANOPY TREES | <i>Hemlock</i> / Hemlock |
| | <i>Quercus macrocarpa</i> / Small Oak |
| | <i>Quercus phellos</i> / Willow Oak |
| | <i>Quercus virginiana</i> / Southern Live Oak |
| | <i>Taxodium distichum</i> 'Mikelson' TM / Bald Cypress |
| | <i>Ulmus parvifolia</i> 'Drake' / Drake Lacebark Elm |
| UNDERSTORY TREES | <i>Cercis canadensis</i> 'Rising Sun' / Rising Sun Redbud |
| | <i>Ilex x attenuata</i> 'Eaglestone' / Eaglestone Holly |
| | <i>Lagerstroemia indica</i> x 'farrisi' 'Muskogee' / Muskogee Crpe Myrtle Multi-Trunk |
| | <i>Lagerstroemia</i> x 'Natchez' / Natchez Crpe Myrtle - Standard |
| SHRUBS | <i>Alcea x 'Upright'</i> / Upright Elephant Ear |
| | <i>Clethra alatifolia</i> 'Sixteen Candles' / Summersweet Clethra |
| | <i>Dryopteris</i> x 'Vintage Jade' / First Editions' Vintage Jade Dryopteris |
| | <i>Illicium floridanum</i> / Florida Anise |
| | <i>Illicium parviflorum</i> 'Florida Sunshine' / Florida Sunshine Anise Tree |
| | <i>Loropetalum chinense</i> 'Purple Diamond' / Fringe Flower |
| | <i>Myrica cerifera</i> 'Wax Myrtle' |
| | <i>Podocarpus macrophyllus</i> 'Dwarf Pringle' / Dwarf Pringle Yew Podocarpus |
| | <i>Serenoa repens</i> 'Cinerea' / Silver Saw Palmetto |
| | <i>Viburnum awabaki</i> 'Chindo' / Chindo Viburnum |
| | <i>Viburnum suspensum</i> / Sandalwood Viburnum |
| | <i>Viburnum tinus</i> 'Spring Bouquet' / Spring Bouquet Laurestinus |

GROUND COVERS

| BOTANICAL / COMMON NAME |
|---|
| <i>Annalis</i> / Annalis |
| <i>Carex noronhai</i> 'Ice Dance' / Ice Dance Japanese Sedge |
| <i>Ceratophyllum demersum</i> / Dwarf Waterhyacinth |
| <i>Dianella tasmanica</i> 'Variegata' / Variegated Flax Lily |
| <i>Dietsa vegeta</i> / African Iris |
| <i>Hymenocallis littoralis</i> / Spider Lily |
| <i>Juniperus conferta</i> 'Blue Pacific' / Blue Pacific Shore Juniper |
| <i>Lantana x 'New Gold'</i> / New Gold Lantana |
| <i>Lomandra longifolia</i> 'Nyalia' / Nyalia Mat Rush |
| <i>Lomandra longifolia</i> 'Nyalia' / Nyalia Mat Rush |
| <i>Muhlenbergia capillaris</i> / Pink Muhly Grass |
| <i>Muhlenbergia capillaris</i> / Pink Muhly Grass |
| <i>Panicum virgatum</i> / Switch Grass |
| <i>Panicum virgatum</i> 'Heavy Metal' / Heavy Metal Switch Grass |
| <i>Panicum virgatum</i> 'Northwind' / Switch Grass |
| <i>Rudbeckia fulgida</i> / Coneflower |
| <i>Spartina alterniflora</i> / Salt Marsh Grass |
| <i>Spartina bakeri</i> / Sand Cordgrass |
| <i>Spartina bakeri</i> / Sand Cordgrass |
| <i>Trachelospermum asiaticum</i> / Asiatic Jasmine |
| MULCH |
| Hardwood Mulch / Hardwood Mulch |
| Pinestraw Mulch / Pinestraw Mulch |
| TURF |
| <i>Cynodon dactylon</i> / Bermuda Grass |
| <i>Cynodon dactylon</i> 'Celebration' / Celebration Bermuda Grass |

811
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0 20' 40'
 SCALE: 1" = 20'

STATE PLANE

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 BEAUFORT, SC 29902

SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

LANDSCAPE PLAN

| NO. | DATE | DESCRIPTION |
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| 1 | 09/15/2023 | ISSUE FOR BID |
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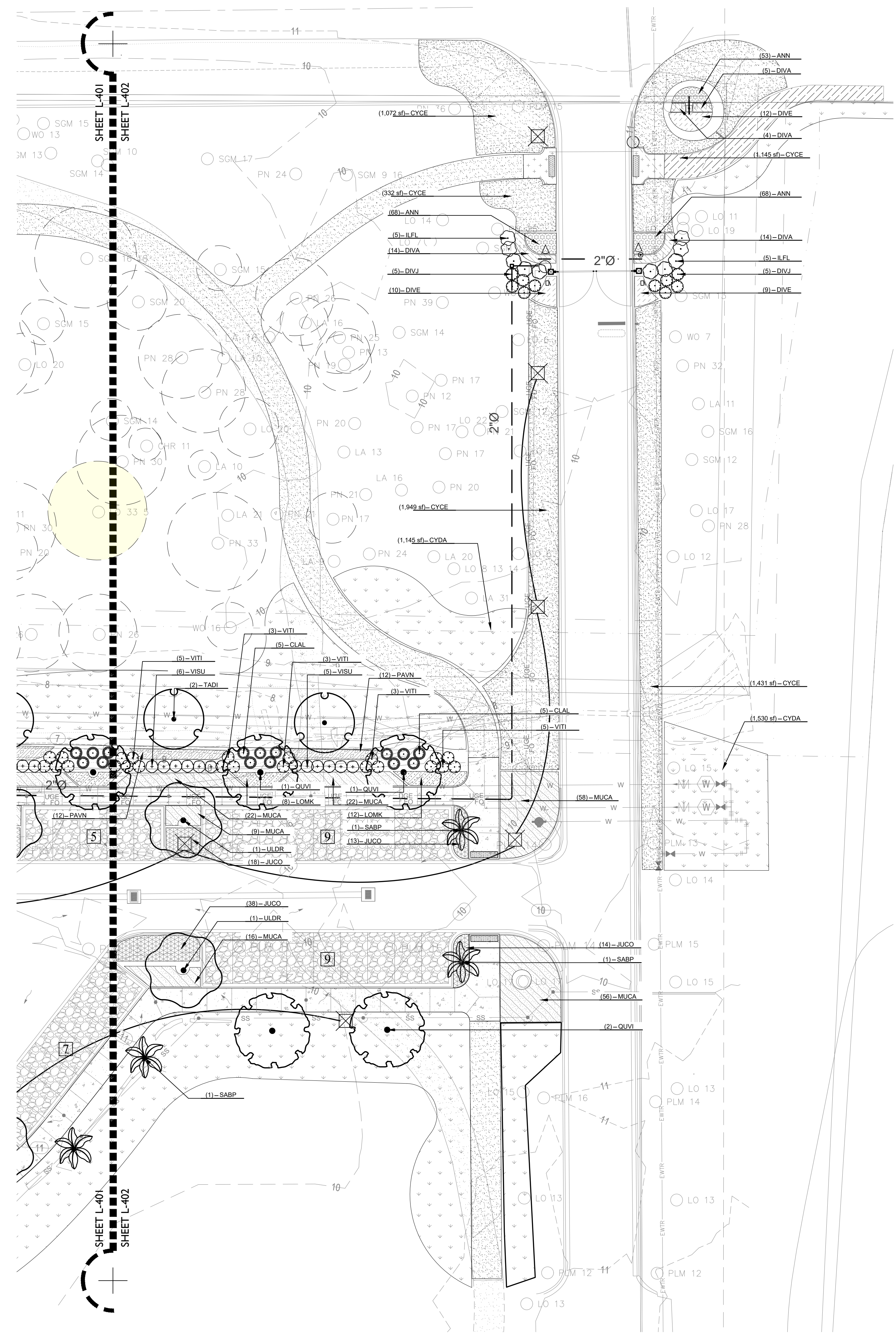
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FOR NO. 32024.00
 DATE 10/16/2023
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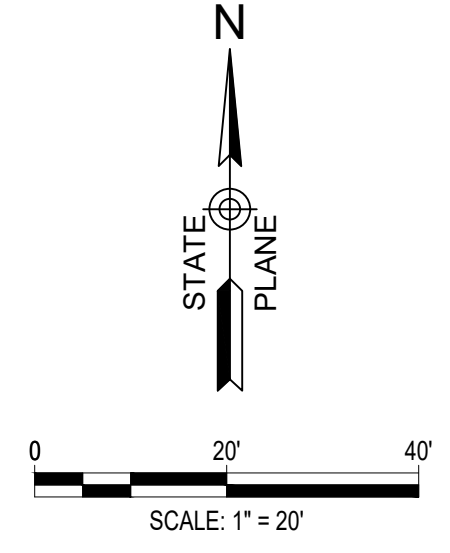
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PLANT SCHEDULE

| PALM TREES | |
|--|-------------------|
| BOTANICAL / COMMON NAME | |
| Sabal palmetto / Sabal Palm | (53)-ANN |
| Washingtonia robusta / Mexican Fan Palm | (5)-DIVA |
| CANOPY TREES | |
| BOTANICAL / COMMON NAME | |
| Betula nigra 'BNTM' / Dark Heart® River Birch | (12)-DIVE |
| Pinus taeda / Loblolly Pine | (4)-DIVA |
| Quercus nuttallii / Nuttall Oak | (1,145) sf - CYCE |
| Quercus phellos / Willow Oak | |
| Quercus virginiana / Southern Live Oak | |
| Taxodium distichum 'Mickelton' TM / Bald Cypress | |
| Ulmus parvifolia 'Dink' / Drake Lacebark Elm | |
| UNDERSTORY TREES | |
| BOTANICAL / COMMON NAME | |
| Cercis canadensis 'Rising Sun' / Rising Sun Redbud | (68)-ANN |
| Ilex x attenuata 'Eagleson' / Eagleson Holly | (14)-DIVA |
| Lagerstroemia indica x auriculata 'Maskege' / Maskege Crape Myrtle Multi-Trunk | (5)-ILFL |
| Lagerstroemia x 'Natchez' / Natchez Crape Myrtle - Standard | (5)-DIVJ |
| | (9)-DIVE |
| SHRUBS | |
| BOTANICAL / COMMON NAME | |
| Alcornoque x 'Upright' / Upright Elephant Ear | |
| Clethra alnifolia 'Sixteen Candles' / Summerweet Clethra | |
| Dorstenia x 'Vintage Jade' / First Edition® Vintage Jade Dorstenia | |
| Illicium floridanum / Florida Anise | |
| Illicium parviflorum 'Florida Sunshine' / Florida Sunshine Anise Tree | |
| Lopetalum chinense 'Purple Diamond' / Fringe Flower | |
| Myrica cerifera / Wax Myrtle | |
| Podocarpus macrophyllus 'Dwarf Pringles' / Dwarf Pringles Yew Podocarpus | |
| Sorbus rogersii 'Cinere' / Silver Saw Palmetto | |
| Viburnum awabaki 'Chando' / Chando Viburnum | |
| Viburnum suspensum / Sandukwa Viburnum | |
| Viburnum tinus 'Spring Bouquet' / Spring Bouquet Laurestinus | |
| GROUND COVERS | |
| BOTANICAL / COMMON NAME | |
| Anemone / Anemone | |
| Carex morrowii 'Ice Dance' / Ice Dance Japanese Sedge | |
| Ceratostigma plumbaginoides / Dwarf Plumbago | |
| Dianella isometrica 'Variegata' / Variegated Flax Lily | |
| Dietes vegeta / African Iris | |
| Hymenocallis littoralis / Spider Lily | |
| Juniperus conferta 'Blue Pacific' / Blue Pacific Shore Juniper | |
| Lantana x 'New Gold' / New Gold Lantana | |
| Lomandra longifolia 'Nyalis' / Nyalis Mat Rush | |
| Lomandra longifolia 'Nyalis' / Nyalis Mat Rush | |
| Muhlenbergia capillaris / Pink Muhly Grass | |
| Muhlenbergia capillaris / Pink Muhly Grass | |
| Panicum virgatum / Switch Grass | |
| Panicum virgatum 'Heavy Metal' / Heavy Metal Switch Grass | |
| Panicum virgatum 'Northwind' / Switch Grass | |
| Rudbeckia fulgida / Coneflower | |
| Spartina alterniflora / Salt Marsh Grass | |
| Spartina bakeri / Sand Cordgrass | |
| Spartina bakeri / Sand Cord Grass | |
| Trachodesperum asiaticum / Asiatic Jasmine | |
| MULCH | |
| BOTANICAL / COMMON NAME | |
| Hardwood Mulch / Hardwood Mulch | |
| Pinestraw Mulch / Pinestraw Mulch | |
| TUBE | |
| BOTANICAL / COMMON NAME | |
| Cynodon dactylon / Bermuda Grass | |
| Cynodon dactylon 'Celebration' / Celebration Bermuda Grass | |



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SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

LANDSCAPE PLAN

| NO. | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 1 | 08/10/2023 | ISSUED FOR BID |
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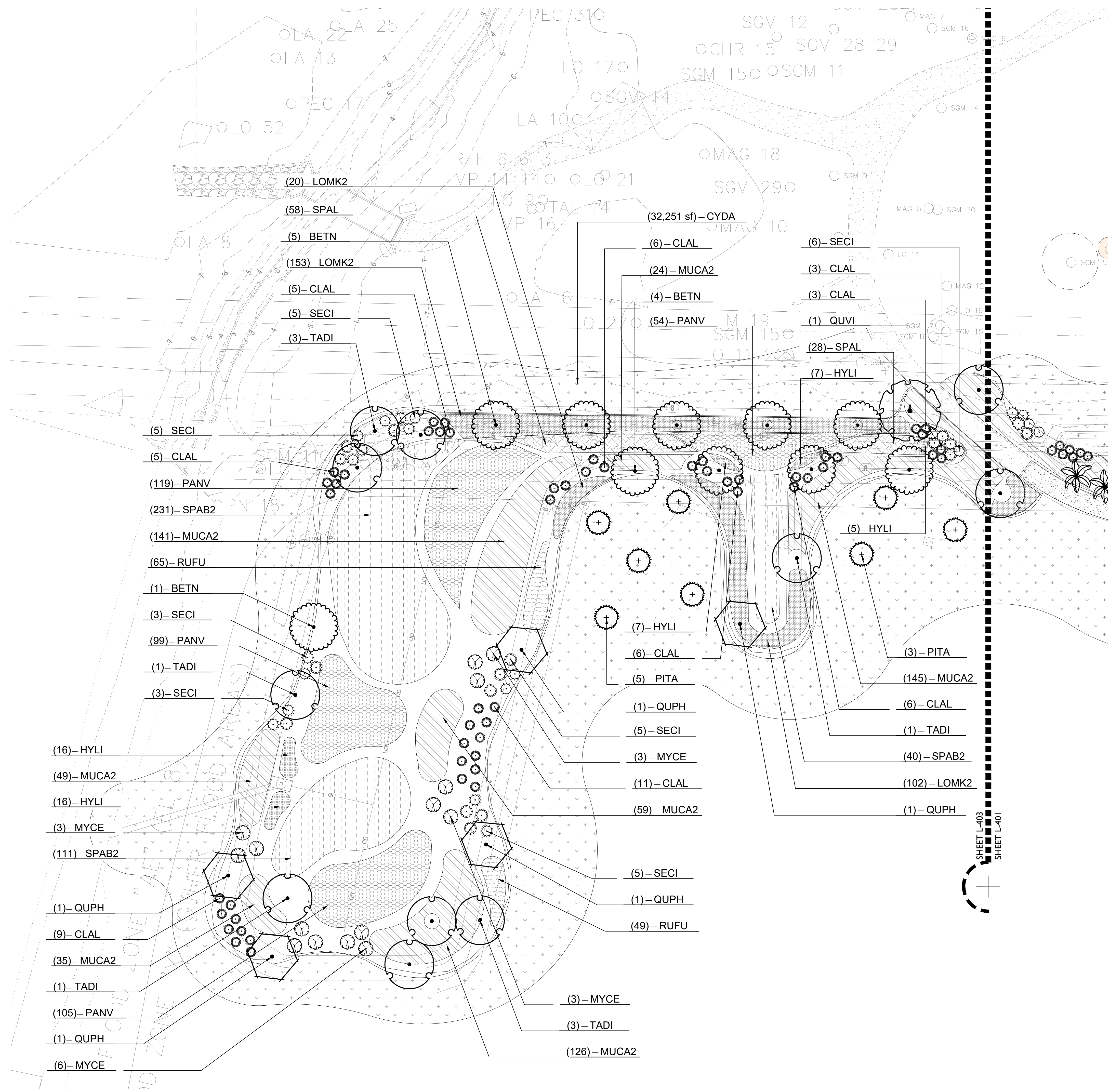
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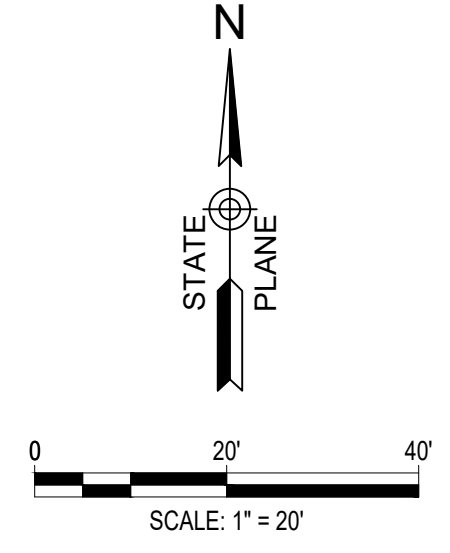
PLANT SCHEDULE

| PLANT TYPE | BOTANICAL / COMMON NAME | |
|---|--|--|
| PALM TREES | Sabal palmetto / Sabal Palm | |
| | Washingtonia robusta / Mexican Fan Palm | |
| | CANOPY TREES | Betula nigra 'BHMTP' / Dark Heart® River Birch |
| | | Pinus taeda / Loblolly Pine |
| | | Quercus nuttallii / Nuttall Oak |
| | | Quercus phellos / Willow Oak |
| | | Quercus virginiana / Southern Live Oak |
| | | Taxodium distichum 'Mickleton' TM / Bald Cypress |
| | | Ulmus parvifolia 'Drake' / Drake Lacebark Elm |
| | | UNDERSTORY TREES |
| Ilex x attenuata 'Eagleson' / Eagleson Holly | | |
| Lagerstroemia indica x 'varius' 'Muskogee' / Muskogee Crape Myrtle Multi-Tree | | |
| Lagerstroemia x 'Natchez' / Natchez Crape Myrtle - Standard | | |
| SHRUBS | Alcea x 'Upright' / Upright Elephant Ear | |
| | Clethra alnifolia 'Sixteen Candles' / Summerweet Clethra | |
| | Diosyrium x 'Vintage Jade' / First Edition® Vintage Jade Diosyrium | |
| | Illicium floridanum / Florida Anise | |
| | Illicium parviflorum 'Florida Sunshine' / Florida Sunshine Anise Tree | |
| | Loropetalum chinense 'Purple Diamond' / Fringe Flower | |
| | Myrica cerifera / Wax Myrtle | |
| | Podocarpus macrophyllus 'Dwarf Pringle' / Dwarf Pringle Yew Podocarpus | |
| Serenoa repens 'Cinerea' / Silver Saw Palmetto | | |
| Viburnum awabaki 'Chindo' / Chindo Viburnum | | |
| Viburnum suspensum / Sandalwood Viburnum | | |
| Viburnum tinus 'Spring Bouquet' / Spring Bouquet Laurestinum | | |
| GROUND COVER | Animals / Animals | |
| | Carex morrowii 'Ice Dance' / Ice Dance Japanese Sedge | |
| | Cortaderia plumbea / Dwarf Plumbeo | |
| | Dianella taurica 'Variegata' / Variegated Flax Lily | |
| | Dioscorea sp. / African Iris | |
| | Hymenocallis litoralis / Spider Lily | |
| | Juniperus conferta 'Blue Pacific' / Blue Pacific Shore Juniper | |
| | Lantana x 'New Gold' / New Gold Lantana | |
| | Lomandra longifolia 'Nyalia' / Nyalia Mat Rush | |
| | Lomandra longifolia 'Nyalia' / Nyalia Mat Rush | |
| | Muhlenbergia capillaris / Pink Malt Grass | |
| | Muhlenbergia capillaris / Pink Malt Grass | |
| | Panicum virgatum / Switch Grass | |
| | Panicum virgatum 'Heavy Metal' / Heavy Metal Switch Grass | |
| | Panicum virgatum 'Northwind' / Switch Grass | |
| | Rudbeckia fulgida / Coneflower | |
| | Spartina alterniflora / Salt Marsh Grass | |
| | Spartina bakeri / Sand Cordgrass | |
| | Spartina bakeri / Sand Cord Grass | |
| | Trachelospermum asiaticum / Asiatic Jasmine | |
| MULCH | Hardwood Mulch / Hardwood Mulch | |
| | Pinestraw Mulch / Pinestraw Mulch | |
| TURF | Cynodon dactylon / Bermuda Grass | |
| | Cynodon dactylon 'Celebration' / Celebration Bermuda Grass | |

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SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

LANDSCAPE PLAN

| NO. | DATE | DESCRIPTION |
|-----|------------|------------------------|
| 1 | 08/10/2023 | ISSUE FOR BID |
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PLANT SCHEDULE

| PALM TREES | QTY | BOTANICAL NAME | COMMON NAME | CONT | CAL | HEIGHT | SPREAD | REMARKS |
|------------------|------------|---|--|----------------|----------------|------------|----------|---------------------------------------|
| SABP | 24 | Sabal Palmetto | Sabal Palm | B & B | | 16' HT | | Matched, Slick - No Boots, Refoliated |
| WARO | 4 | Washingtonia robusta | Mexican Fan Palm | B&B or Cont. | | 14' MIN. | | Matched at Drop-Off |
| CANOPY TREES | QTY | BOTANICAL NAME | COMMON NAME | CONT | CAL | HEIGHT | SPREAD | REMARKS |
| BETN | 10 | Betula nigra 'BNMTF' | Dura Heat® River Birch | B&B or Cont. | 1.5" Cal. Min. | 10'-12' | 3' - 4' | |
| PITA | 8 | Pinus taeda | Loblolly Pine | B&B or Cont. | 1.5" Cal. Min. | 6' - 8' | 2' - 3' | Strong central leader |
| QOUN | 6 | Quercus nuttallii | Nuttall Oak | B&B or Cont. | 2.5" Cal. | 12' - 14' | 4' - 5' | Strong central leader |
| QUPH | 5 | Quercus phellos | Willow Oak | B & B or Cont. | 2" Cal. | 10'-12' | 4' - 5' | Strong central leader |
| QADI | 22 | Quercus virginiana | Southern Live Oak | B&B or Cont. | 2.5" Cal. | 12' - 14' | 4' - 5' | Strong central leader |
| TUVI | 17 | Taxodium distichum 'Mickelson' TM | Bald Cypress | B & B | 2.5" Cal. | 10'-12' | 4' - 5' | Strong central leader |
| ULDR | 11 | Ulmus parvifolia 'Drake' | Drake Lacebark Elm | B&B or Cont. | 2.5" Cal. | 12' - 14' | 4' - 5' | Strong central leader |
| UNDERSTORY TREES | QTY | BOTANICAL NAME | COMMON NAME | CONT | CAL | HEIGHT | SPREAD | REMARKS |
| CECR | 4 | Cercis canadensis 'Rising Sun' | Rising Sun Redbud | B & B or Cont. | 1.5" Cal. Min. | 8' - 10' | 4' - 5' | Single Trunk |
| ILEA | 6 | Ilex x attenuata 'Eagleston' | Eagleston Holly | B&B or Cont. | 2.5" Cal. | 8' - 10' | 3' - 4' | Full to ground, Strong central leader |
| LAMO | 10 | Lagerstroemia indica x fauriei 'Muskogee' | Muskogee Crape Myrtle Multi-Trunk | B&B or Cont. | 1" Cal. | 8' - 10' | 4' - 5' | 3-5 Canes min. |
| LANA | 6 | Lagerstroemia x 'Natchez' | Natchez Crape Myrtle - Standard | B & B or Cont. | 2" Cal | 6' - 8' CT | 4' - 5' | Single Trunk, Matched; 6' C.T. |
| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | CONT | HEIGHT | SPREAD | | |
| ALO XUP | 4 | Alocasia x 'Upright' | Upright Elephant Ear | Cont. | 18" - 24" | 18" - 24" | | Full in Pot |
| CLAL | 81 | Clethra alnifolia 'Sixteen Candles' | Summersweet Clethra | Cont. | 24" - 30" | 24" - 30" | | Full in pot |
| DIVJ | 30 | Distylium x 'Vintage Jade' | First Editions® Vintage Jade Distylium | Cont. | 12" - 18" | 12" - 18" | | Full in pot. |
| ILFL | 10 | Illicium floridanum | Florida Anise | Cont. | 18" - 24" | 24" - 30" | | Full in pot |
| ILLFS | 6 | Illicium parviflorum 'Florida Sunshine' | Florida Sunshine Anise Tree | Cont. | 24" - 36" | 18" - 24" | | full in pot |
| LOCP | 23 | Loropetalum chinense 'Purple Diamond' | Fringe Flower | Cont. | 18" - 24" | 18" - 24" | | Full in pot |
| MYCE | 15 | Myrica cerifera | Wax Myrtle | B&B or Cont. | 30" - 36" | 24" - 36" | | Full pot |
| PODO | 57 | Podocarpus macrophyllus 'Dwarf Pringles' | Dwarf Pringles Yew Podocarpus | Cont. | 15" - 18" | 20" - 24" | | Full in pot |
| SECI | 83 | Serenoa repens 'Cinerea' | Silver Saw Palmetto | Cont. | 12" - 18" | 12" - 18" | | Full in pot |
| VIAC | 15 | Viburnum awabuki 'Chindo' | Chindo Viburnum | Cont. | 24" - 30" | 18" - 24" | | Full in pot |
| VISU | 38 | Viburnum suspensum | Sandankwa Viburnum | Cont. | 18" - 24" | 18" - 24" | | Full in pot |
| VITI | 62 | Viburnum tinus 'Spring Bouquet' | Spring Bouquet Laurestinus | Cont. | 18" - 24" | 18" - 24" | | Full in pot |
| GROUND COVERS | QTY | BOTANICAL NAME | COMMON NAME | CONT | HEIGHT | SPREAD | SPACING | |
| ANN | 189 | Annuals | Annuals | 1 gal | 8" - 12" | 8" - 12" | 12" o.c. | To be selected by owner |
| CAMI | 214 | Carex morrowii 'Ice Dance' | Ice Dance Japanese Sedge | 1 Gal. | 8" - 12" | 8" - 12" | 18" o.c. | Full in Pot |
| PLUM | 93 | Ceratostigma plumbaginoides | Dwarf Plumbago | 1 Gal. | 12" - 18" | 8" - 12" | 30" o.c. | Full Pot |
| DIVA | 37 | Dianella tasmanica 'Variegata' | Variegated Flax Lily | 1 gal | 12" - 18" | 10" - 12" | 24" o.c. | Full in pot |
| DIVE | 72 | Dietes vegeta | African Iris | 1 gal | 12" - 18" | 12" - 18" | 30" o.c. | Full in pot. |
| HYLI | 51 | Hymenocallis littoralis | Spider Lily | 1 gal | 10" - 12" | 10" - 12" | 30" o.c. | Full in pot |
| JUCO | 250 | Juniperus conferta 'Blue Pacific' | Blue Pacific Shore Juniper | 1 Gal. | 6" - 8" | 8" - 12" | 30" o.c. | Full pot |
| LAHY | 29 | Lantana x 'New Gold' | New Gold Lantana | 1 gal | 8" - 12" | 12" - 18" | 30" o.c. | Full in pot. |
| LOMK2 | 296 | Lomandra longifolia 'Nyalla' | Nyalla Mat Rush | 1 gal | 12" - 18" | 8" - 12" | 36" o.c. | Full in Pot |
| LOMK | 52 | Lomandra longifolia 'Nyalla' | Nyalla Mat Rush | 1 gal | 12" - 18" | 8" - 12" | 36" o.c. | Full in pot. |
| MUCA | 693 | Muhlenbergia capillaris | Pink Muhly Grass | 1 gal | 12" - 18" | 8" - 12" | 36" o.c. | Full in pot. |
| MUCA2 | 671 | Muhlenbergia capillaris | Pink Muhly Grass | 1 gal | 12" - 18" | 8" - 12" | 36" o.c. | Full in Pot |
| PANV | 377 | Panicum virgatum | Switch Grass | 1 Gal. | 12" - 18" | 8" - 10" | 42" o.c. | Full in Pot |
| PANE | 32 | Panicum virgatum 'Heavy Metal' | Heavy Metal Switch Grass | 1 gal | 12" - 18" | 8" - 12" | 36" o.c. | Full in pot |
| PAVN | 71 | Panicum virgatum 'Northwind' | Switch Grass | 1 gal | 12" - 18" | 8" - 12" | 36" o.c. | Full in pot. |
| RUFU | 114 | Rudbeckia fulgida | Coneflower | 1 gal | 12" - 18" | 8" - 12" | 24" o.c. | Full in pot. |
| SPAL | 86 | Spartina alterniflora | Salt Marsh Grass | 1 Gal. | 12" - 18" | 8" - 12" | 36" o.c. | Full in Pot |
| SPAB2 | 382 | Spartina bakeri | Sand Cordgrass | 1 gal | 12" - 18" | 8" - 12" | 48" o.c. | Full in Pot |
| SPBA | 50 | Spartina bakeri | Sand Cord Grass | 1 gal | 12" - 18" | 8" - 12" | 42" o.c. | Full in pot |
| TRAS | 353 | Trachelospermum asiaticum | Asiatic Jasmine | 4" pot | 6" - 8" | 6" - 8" | 12" o.c. | Full in pot |
| MULCH | QTY | BOTANICAL NAME | COMMON NAME | CONT | HEIGHT | SPREAD | SPACING | |
| HWMULCH | 20,788 sf | Hardwood Mulch | Hardwood Mulch | N/A | | | | Double ground, 4" depth min. |
| MLCH | 2,197 sf | Pinestraw Mulch | Pinestraw Mulch | Bale | | | | 4" Min. Depth |
| TURF | QTY | BOTANICAL NAME | COMMON NAME | CONT | HEIGHT | SPREAD | SPACING | |
| CYDA | 117,193 sf | Cynodon dactylon | Bermuda Grass | Seed | | | | 2 lbs / 1,000 sf rate |
| CYCE | 13,061 sf | Cynodon dactylon 'Celebration' | Celebration Bermuda Grass | Sod | | | | Free of thatch |

LANDSCAPE NOTES:

- The landscape architect must approve all plant substitutions prior to purchase or installation.
- The plant schedule included in this drawing was prepared for estimating purposes & for the contractors convenience only, and its accuracy is not guaranteed. The contractor shall perform his or her own quantity take-offs using the drawings to determine the quantities to his or her satisfaction. The contractor shall report any discrepancies to the landscape architect prior to submitting a final bid.
- Contractor shall warranty all exterior plants for one year from the date of substantial completion, against defects including but not limited to death and unsatisfactory growth. Defects associated with a lack of adequate maintenance, neglect, or abuse by the owner or incidents that are beyond contractor's control will not be covered by the one-year warranty.
- The contractor shall verify that all selected plant species are determined available at their specified sizes when the time of bidding. The contractor shall not make plant substitutions. If there are difficulties locating plant material as specified, contact the landscape architect prior to submitting the bid.
- All plant material shall have a well formed head with the minimum caliper, height, spread as shown in the plant schedule. trunks shall be undamaged and shape shall be typical of the species. **Plant caliper, height and spread governs plant specifications over container size.**
- Provide photos of plant material for approval prior to purchase. Photo examples shall show plant material heights and spreads to compare to original specification.
- All plant material shall be subject to approval by the landscape architect or owners representative before, during and after installation.
- All planting techniques shall conform to approved industry standards.
- The contractor shall coordinate with the owner's representative to establish a planting schedule that prioritizes the planting of all trees and lawn areas.
- All plant beds shall be mulched with double ground hardwood mulch or pinestraw (refer to schedule) to a depth of 4".
- All plant beds shall receive a weed inhibitor application at installation.
- All landscape material shall be correctly laid out and installed per the plans. The contractor is responsible by any means (survey, staking, etc.) to insure the correct plant layout and may seek the landscape architects approval for landscape material layouts prior to installation. The contractor shall coordinate with the landscape architect for these approvals and shall have all required plant material placed in their proposed locations prior to the landscape architects on-site approval. All plant material placement is subject to re-placement and layout per the landscape architects

- discretion if the layout does not follow the plans.
- The landscape contractor shall leave all plant identification hangtag's on each plant until final approval has been granted per the Landscape Architects final punch / field report. Once the final approval is obtained, the hangtag's may be removed.

IRRIGATION NOTES:

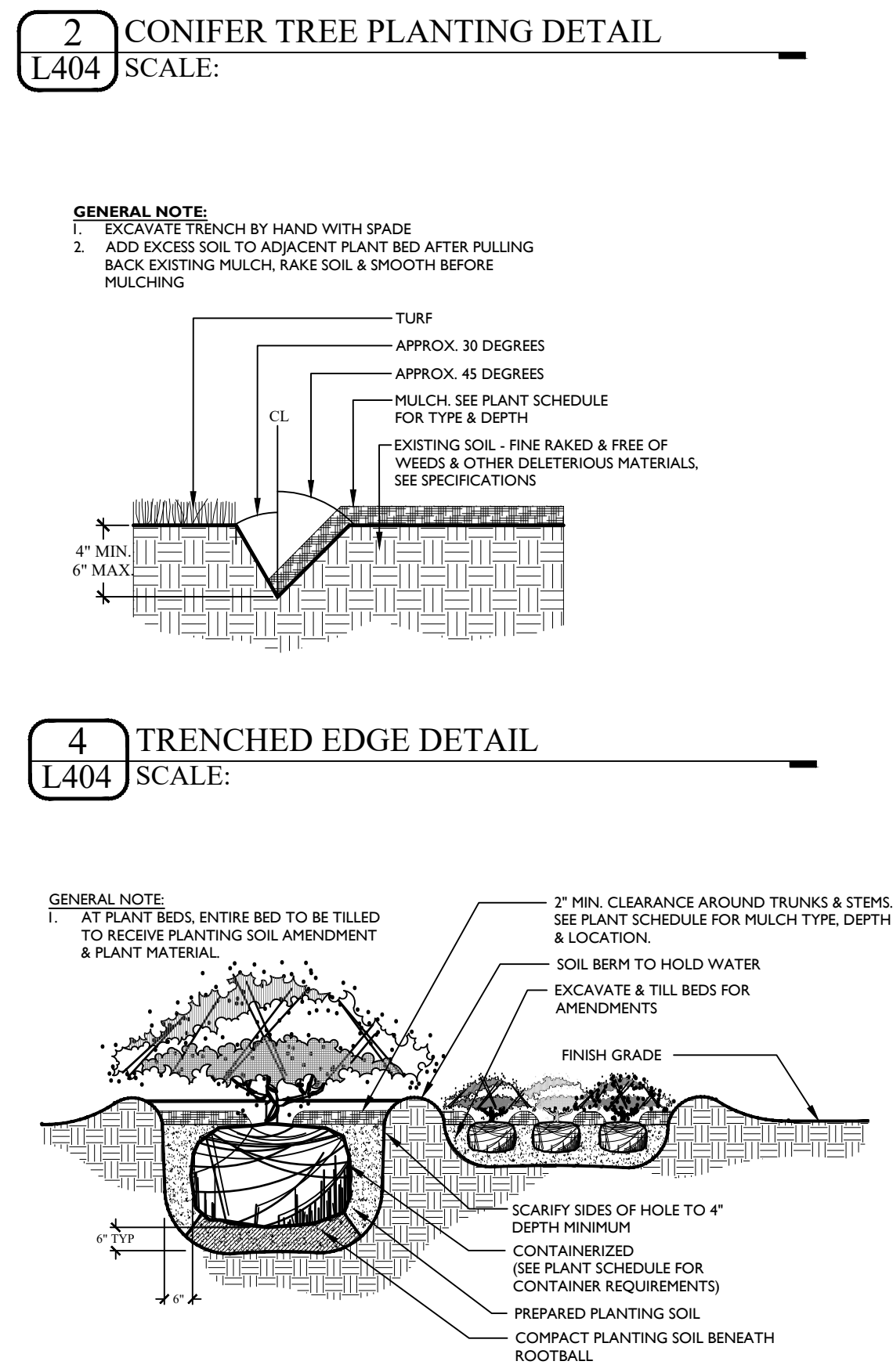
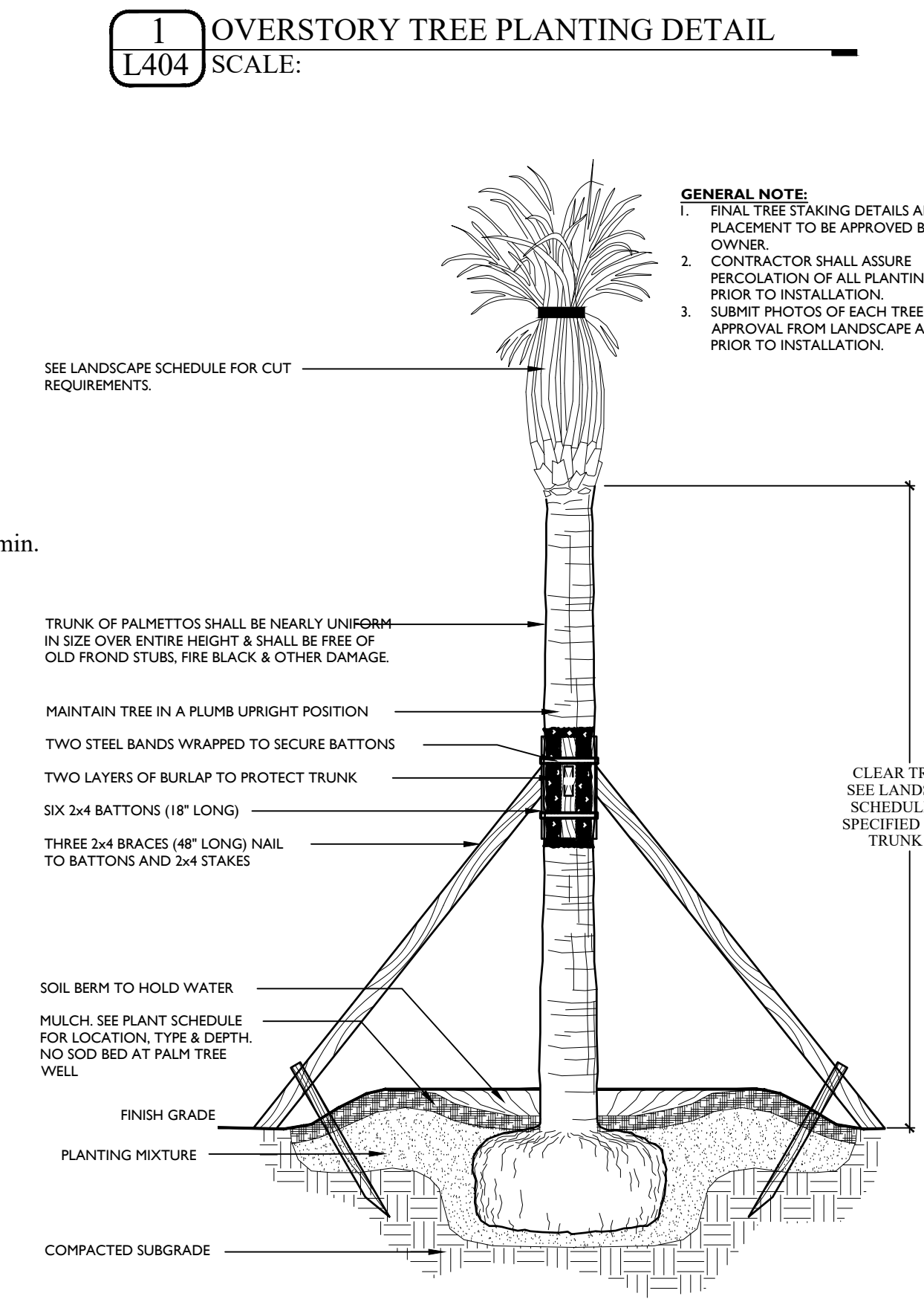
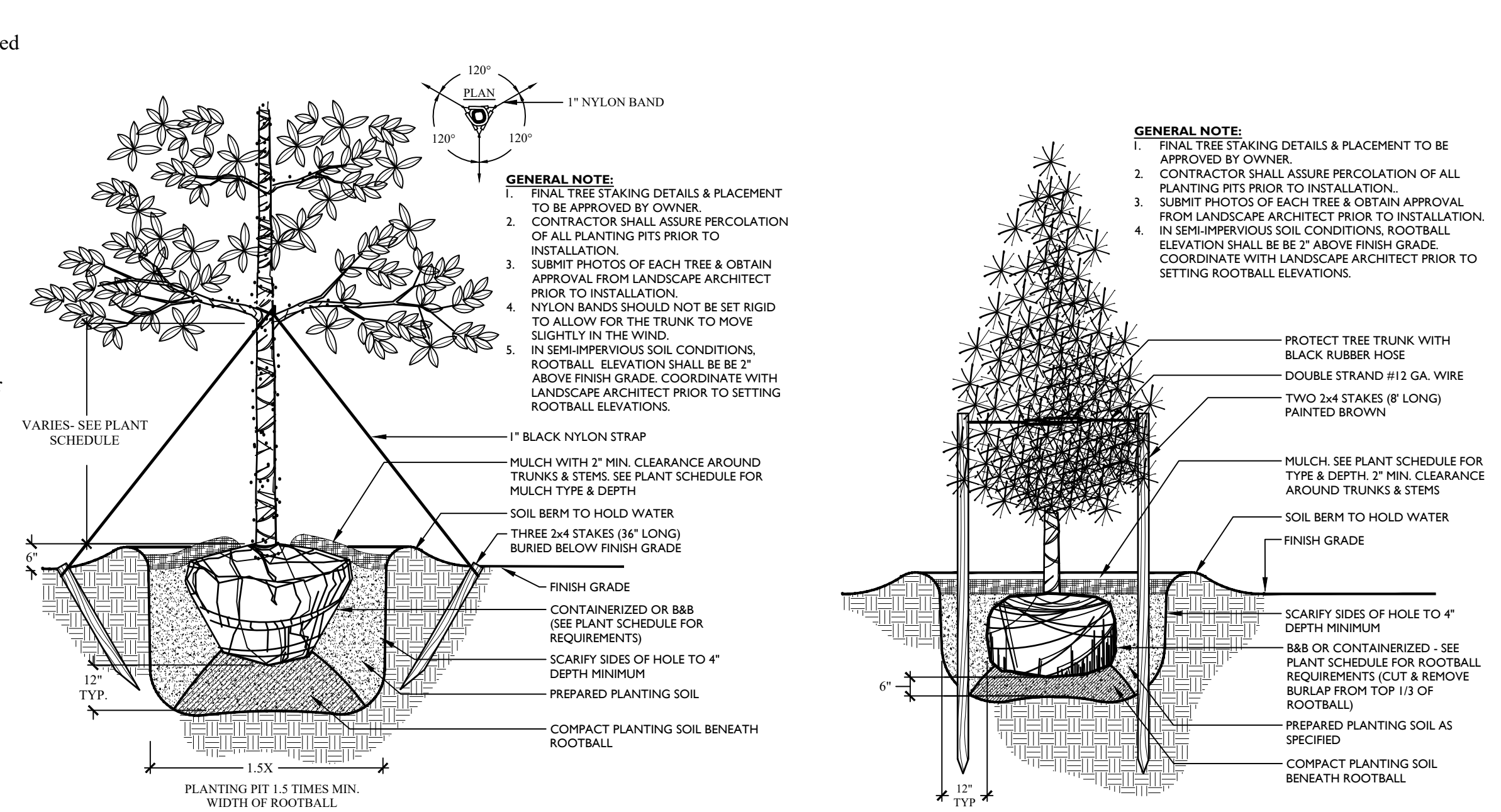
- Contractor to supply automatic irrigation system, complete and installed. System shall include all valves, pipes, heads, fittings, back-flow, & controllers. The installed system shall provide 100% coverage of all sod, hydro-seed and planting beds.

GRADING NOTES:

- Contractor to perform fine grading within all turf and plant beds. Fine grading shall consist of a hand raked, smooth soil free of rocks, roots, and debris.

GENERAL NOTES:

- Contractor is responsible for locating existing utilities and is responsible for any damage that may occur to existing utilities.
- Contractor is responsible for inspection of existing conditions and promptly reporting any discrepancies. Contractor to perform soil tests as specified.
- Notify landscape architect of any site conditions which may necessitate a modification to the plans. Landscape architect shall, if necessary, make "in-field modifications".
- Any deviation from these plans must be specifically approved by the landscape architect or owner's representative.



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10-16-2023

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WOOD+PARTNERS LANDSCAPE ARCHITECTURE LAND PLANNING

CITY OF BEAUFORT BEAUFORT, SC 29902

SOUTHSIDE PARK - PHASE I PLAYGROUND AREA IMPROVEMENTS

PLANT SCHEDULE, NOTES & DETAILS

| NO. | DATE | DESCRIPTION | BY | CHKD |
|-----|------------|-------------------|----|------|
| 1 | 08/10/2023 | ISSUE FOR BIDDING | | |
| 2 | 08/10/2023 | ISSUE FOR BIDDING | | |

FOR NO. 3/2024.00 DATE 10/10/2023

DATE 10/10/2023

BY TG

CHKD TG/CC

ISSUED BY TG

PROVIDED BY TG

PAGE 15 OF 15

L-404

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SOUTHSIDE BLVD

SOUTHSIDE BOULEVARD (66' R/W)

IR103

IR102

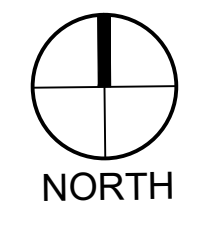
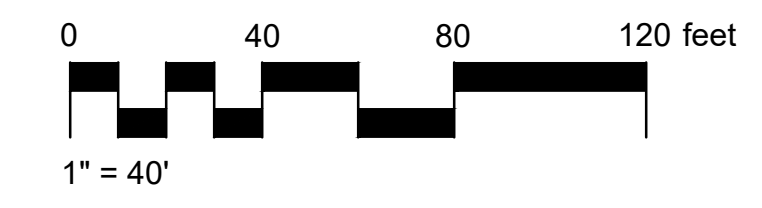
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FLOOD ZONE "A"
FLOOD ZONE "X" (OTHER FLOOD AREAS)

D:\CDDO\Commercial Projects\WPI HR\Southside Park Beaufort\Design Files\10-23007-400 Irrigation.dwg 5/27/2023 8:49:28 AM michael.clark
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LANDSCAPE ARCHITECTURE
LAND PLANNING

CITY OF BEAUFORT

BEAUFORT, SC 29502

SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

IRRIGATION PLAN

| NO. | DATE | DESCRIPTION |
|-----|----------|----------------|
| 1 | 09/20/20 | ISSUED FOR BID |
| 2 | 05/27/23 | ISSUED FOR BID |

| NO. | DATE | DESCRIPTION |
|-----|------------|----------------|
| 1 | 10/16/2023 | ISSUED FOR BID |
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IR100

CONTRACTOR'S QUALIFICATION REQUIREMENTS

- IRRIGATION CONTRACTOR TO BE STATE LICENSED, IF REQUIRED, AND A IRRIGATION ASSOCIATION CERTIFIED IRRIGATION CONTRACTOR IN GOOD STANDING. PROVIDE CIC CERTIFICATE WITH SUBMITTALS.
- CONTRACTOR MUST HAVE COMPLETED THE MANUFACTURERS 2-WIRE CONSTRUCTION TRAINING COURSE AND PROVIDE CERTIFICATE OF COMPLETION AS PART OF THE SUBMITTALS.
- CONTRACTOR MUST HAVE COMPLETED THE MANUFACTURERS 2-WIRE CONTROLLER PROGRAMMING COURSE AND PROVIDE CERTIFICATE OF COMPLETION AS PART OF THE SUBMITTALS.
- CONTRACTOR THAT CANNOT PROVIDE ITEMS 1-3 ABOVE SHOULD NOT BE ALLOWED TO CONSTRUCT THE IRRIGATION SYSTEM.

IRRIGATION SYSTEM INSPECTION NOTES

- SYSTEM WILL BE INSPECTED FOR ADHERENCE TO THE PLANS AND SPECIFICATIONS.
- ANY COMPONENTS AND OR INSTALLATION TECHNIQUES THAT DO NOT MEET THE INTENT OF THE PLANS AND SPECIFICATIONS WILL BE REMOVED AND REINSTALLED.
- IRRIGATION SYSTEM WILL NOT BE CONSIDERED COMPLETE UNTIL ALL PUNCH LIST ITEMS ARE COMPLETED.

DRIP ZONE NOTES

- IT IS IRRIGATION CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT EACH PLANT IS WITHIN THE DRIPLINE WETTED PATTERN ON NO LESS THAN 2 SIDES.
- DRIPLINE TO BE LAID OUT AND INSTALLED AS DETAIL EXAMPLES.
- DRIPLINE TO BE INSTALLED IN GRID FASHION WITH TUBING ON 18" CENTERS. ELBOWS AND TEES ARE TO BE USED FOR CHANGES IN DIRECTION, LOOPING OF DRIPLINE IS NOT ACCEPTABLE.
- DRIPLINE IS TO BE INSTALLED, TESTED AND INSPECTED TO ENSURE EACH EMITTER FUNCTIONS PROPERLY PRIOR TO COVERING WITH MULCH.
- ALL DRIPLINE SUPPLY PIPING TO BE CL 200 PVC.
- ALL PIPING WITHIN A DRIP ZONE THAT IS UNDER THE HARDSCAPE TO BE CL 200 PVC.
- DRIPLINE TO BE STAKED DOWN EVERY 3' AND WITHIN 1" OF ALL FITTING OUTLETS.
- ALL FLUSH VALVES ARE TO BE INSPECTED FOR PROPER OPERATION.
- IRRIGATION CONTRACTOR TO MEET WITH DRIP COMPONENT MANUFACTURERS REPRESENTATIVE AND OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION TO REVIEW DRIP COMPONENT CONSTRUCTION, OPERATION AND MAINTENANCE.

CONTROLLER INSTALLATION NOTES

- IRRIGATION CONTRACTOR TO COORDINATE EXACT LOCATION OF CONTROLLER WITH OWNER'S REPRESENTATIVE.
- PROVIDE 120VAC 20 AMP POWER TO JUNCTION BOX AT CONTROLLER LOCATION.
- IRRIGATION CONTRACTOR TO HARD WIRE CONTROLLER TO POWER SUPPLY AS PER PREVAILING CODE.
- CONTROLLER TO BE SECURELY ATTACHED TO THE WALL USING METALLIC FASTENERS MADE FOR WALL TYPE.
- ALL IRRIGATION CONTROL WIRE ABOVE GRADE TO BE ENCASED IN PVC ELECTRICAL CONDUIT.
- IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL POTENTIAL WALL PENETRATIONS AND THE SEALING OF THOSE PENETRATIONS.
- CONTROLLER TO BE GROUNDED AS PER MANUFACTURERS RECOMMENDATIONS.

RAIN BIRD IQ4 REMOTE ACCESS NOTES

- PROVIDE 3 YEAR SUBSCRIPTION, FOR THE OWNER, TO THE RAIN BIRD IQ4 REMOTE ACCESS CLOUD BASED SYSTEM.
- PROVIDE 3 YEAR CELL MODEM DATA PLAN FOR IQ4 ACCESS.
- FULLY SET UP IQ4 TO ACCESS THE CONTROLLER AND ALLOW FOR ALL CONTROL SYSTEM ALERTS, CONTROLLER PROGRAMING, FLOW MANAGEMENT, AUTOMATED ET/WEATHER DOWNLOAD, AND PROGRAM SET UP.
- PROVIDE A MINIMUM OF 4 HOURS OF RAIN BIRD IQ4 MANUFACTURERS TRAINING FOR THE OWNERS REPRESENTATIVES.

VALVE SCHEDULE

| NUMBER | MODEL | SIZE | TYPE | GPM | PRECIP |
|--------|----------------------|--------|-------------------|-------|-----------|
| 1 | Rain Bird PEB | 1" | Turf Spray | 21.72 | 1.39 in/h |
| 2 | Rain Bird PEB | 1" | Shrub Spray | 15.18 | 1.27 in/h |
| 3 | Rain Bird PEB | 1" | Turf Spray | 18.71 | 1.15 in/h |
| 4 | Rain Bird PEB | 1-1/2" | Turf Spray | 38.23 | 1.94 in/h |
| 5 | Rain Bird PEB | 1-1/2" | Turf Spray | 39.1 | 1.82 in/h |
| 6 | Rain Bird PEB | 1-1/2" | Shrub Spray | 32.0 | 1.4 in/h |
| 7 | Rain Bird PEB | 1-1/2" | Shrub Spray | 33.96 | 1.28 in/h |
| 8 | Rain Bird PEB | 1-1/2" | Shrub Spray | 38.1 | 1.33 in/h |
| 9 | Rain Bird PEB | 1" | Turf Rotary | 13.4 | 0.32 in/h |
| 10 | Rain Bird XCZ-100-LC | 1" | Area for Dripline | 14.62 | 1.57 in/h |
| 11 | Rain Bird PEB | 1-1/2" | Shrub Spray | 31.61 | 1.25 in/h |
| 12 | Rain Bird PEB | 1-1/2" | Shrub Spray | 36.59 | 1.45 in/h |
| 13 | Rain Bird PEB | 1-1/2" | Shrub Spray | 17.57 | 1.12 in/h |
| 14 | Rain Bird PEB | 1-1/2" | Turf Spray | 42.01 | 1.78 in/h |
| 15 | Rain Bird PEB | 1-1/2" | Shrub Spray | 40.65 | 1.71 in/h |
| 16 | Rain Bird PEB | 1" | Shrub Spray | 6.47 | 1.31 in/h |
| 17 | Rain Bird XCZ-100-LC | 1" | Area for Dripline | 8.12 | 1.38 in/h |
| 18 | Rain Bird PEB | 1" | Turf Spray | 17.07 | 1.59 in/h |
| 19 | Rain Bird PEB | 1" | Shrub Spray | 21.38 | 1.55 in/h |
| 20 | Rain Bird PEB | 1-1/2" | Turf Rotor | 37.6 | 0.61 in/h |
| 21 | Rain Bird PEB | 1-1/2" | Shrub Spray | 24.12 | 1.31 in/h |
| 22 | Rain Bird PEB | 1" | Turf Rotary | 20.23 | 0.45 in/h |
| 23 | Rain Bird XCZ-100-LC | 1" | Area for Dripline | 2.2 | 1.78 in/h |
| 24 | Rain Bird PEB | 1-1/2" | Turf Rotor | 27.3 | 0.77 in/h |
| 25 | Rain Bird PEB | 1" | Shrub Spray | 17.57 | 1.54 in/h |
| 26 | Rain Bird PEB | 1-1/2" | Shrub Rotary | 29.33 | 0.3 in/h |
| 27 | Rain Bird PEB | 1-1/2" | Shrub Rotor | 28 | 0.54 in/h |
| 28 | Rain Bird PEB | 1-1/2" | Shrub Rotor | 24.5 | 0.52 in/h |

GENERAL NOTES

- ALL TRENCHING TO BE OUTSIDE OF TREE DRIP LINE
- MAINLINE TO HAVE MINIMUM OF 18" OF COVER AND A MINIMUM OF 18" OFF OF THE HARDSCAPE
- LATERALS TO HAVE MINIMUM OF 12" OF COVER AND A MINIMUM OF 12" OFF OF THE HARDSCAPE
- NO ROCKS, BOULDERS OR SHARP OBJECTS TO BE IN TRENCH BACKFILL
- ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS SPECIFICATIONS
- SPRINKLERS AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS AND APPROVED BY 2-WIRE CONTROLLER MANUFACTURER, INSTALLED IN 1" SCH 40 PVC ELECTRICAL CONDUIT TO ALL CONTROL VALVES
- ALL 2-WIRE CONTROL WIRE TO HAVE 14GA "BLUE" TRACER WIRE FROM THE CONTROLLER TO ALL CONTROL VALVES. TRACER WIRE TO HAVE A 24" LOOP LOCATED IN EACH CONTROL VALVE AND ISOLATION VALVE BOXES.
- WIRE SPLICES TO BE DONE AS PER DETAILS
- ALL WIRE SPLICES OUTSIDE OF CONTROL VALVE BOX TO BE IN 10" VALVE BOX
- TWO WIRE CONDUCTORS TO BE COLOR CODED
- CONTRACTOR SHALL INSTALL MANUFACTURERS GROUNDING EQUIPMENT ON BOTH THE POWER AND OUTPUT SIDES OF CONTROLLER, ALL GROUNDING POINTS TO BE INSTALLED AS PER PLANS AND DETAILS
- AT EACH VALVE AND CHANGE IN MAINLINE DIRECTION CONTRACTOR TO INSTALL A 30" LOOP OF EXTRA WIRE
- SPRINKLERS ARE TO BE ADJUSTED TO AVOID OVER-SPRAY INTO NON-IRRIGATED AREAS
- ELECTRIC CONTROL VALVES ARE TO BE INSTALLED IN VALVE BOXES AS FOLLOWS
14" RECTANGULAR MINIMUM FOR EACH ELECTRIC CONTROL VALVE JUMBO VALVE BOX FOR DRIP ZONE KITS
- SPRINKLERS TO BE INSTALLED 12" FROM FOUNDATIONS AND 2" FROM HARDSCAPE
- CONTRACTOR TO ADD RISER EXTENSIONS TO SPRINKLERS IF REQUIRED TO MAINTAIN PROPER COVERAGE
- ALL PIPING TO BE FLUSHED PRIOR TO INSTALLATION OF SPRINKLERS
- ALL VALVES, QUICK COUPLER VALVES, WIRE SPLICES TO BE IN LANDSCAPED BEDS WHEREVER POSSIBLE
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING PROPER COVERAGE OF AREA TO BE IRRIGATED, MAKE ADJUSTMENTS AS NECESSARY
- CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE EXISTING UTILITIES REPAIRING ANY DAMAGES AT HIS OWN COST
- PLAN IS DIAGRAMMATIC TO IMPROVE CLARITY ALL IRRIGATION EQUIPMENT TO BE INSTALLED WITHIN PROPERTY LINES AND LANDSCAPED AREAS
- ANY DISCREPANCIES BETWEEN THE PLAN AND THE SITE TO BE REFERRED TO THE OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION
- CONTRACTOR TO PROVIDE 1 YEAR WARRANTY OF ALL PRODUCTS AND WORKMANSHIP TO INCLUDE WINTERIZATION AND SPRING START-UP
- CONTRACTOR TO PROVIDE OWNER AND OR LANDSCAPE ARCHITECT RECORD DRAWING PRIOR TO SUBSTANTIAL COMPLETION.
- INSTALLATION OF IRRIGATION SLEEVES IS THE IRRIGATION CONTRACTORS RESPONSIBILITY. IRRIGATION CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR SLEEVE INSTALLATION PRIOR TO PAVEMENT INSTALLATION
- CLEANUP AND DISPOSE OF ALL DEBRIS, WASTE AND EXCESS CONSTRUCTION MATERIALS LEAVE AREA NEAT, CLEAN AND READY FOR OWNERS USE PROVIDE CLEAN PAVEMENT SURFACES INCLUDING AREAS OF PUBLIC R.O.W.

TWO WIRE CONTROL SYSTEM NOTES

- ALL DECODER WIRE SPLICE CONNECTORS TO BE 3M DBRY-6 OR BETTER
- ALL DECODER TO VALVE SOLENOID SPLICE CONNECTORS TO BE 3M DBRY-6 OR BETTER
- ALL GROUNDING POINTS TO HAVE BL-LA01 LIGHTNING ARRESTOR INSTALLED INLINE AS PER MANUFACTURER'S REQUIREMENTS AND INSTALLED AS PER DETAIL.
- ALL CONTROL SYSTEM PRODUCTS TO BE INSTALLED AND OPERATED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND OR REQUIREMENTS.
- IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING 2-WIRE INSTALLATION AND PROGRAMMING TRAINING PRIOR TO PROJECT START, PROVIDE CERTIFICATE OF COMPLETION OF THE TRAINING AS PART OF THE SUBMITTAL PROCESS.
- IRRIGATION CONTRACTOR IS RESPONSIBLE FOR TRAINING OWNERS STAFF, AS NEEDED, ON THE OPERATION AND MAINTENANCE OF THE CONTROL SYSTEM.
- IRRIGATION CONTRACTOR IS RESPONSIBLE FOR COMPLETE PROGRAMMING AND OPERATION OF BASELINE CONTROL SYSTEM FOR 1 YEAR FROM SYSTEM ACCEPTANCE. CONTRACTOR TO PROVIDE THE OWNERS REPRESENTATIVE A COMPUTER SPREAD SHEET THAT SHOWS EACH PROGRAM, OPERATIONAL DAYS AND RUN TIMES PER ZONE.
- CONTROLLER, MASTER VALVE AND FLOW SENSOR ARE TO BE PROGRAMMED FOR FLOW MAXIMIZATION, MAINLINE AND ZONE OVER-FLOW SHUT DOWN AND ALERT.

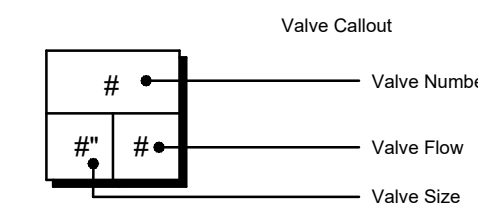
IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|--------|--|
| | Rain Bird PEB 1in., 1-1/2in., 2in. Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. |
| | Rain Bird 33-DLRC 3/4in. Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Locking Thermoplastic Rubber Cover, Double Track Key Lug, and 2-Piece Body. |
| | Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location. Size Range - 1/4in. - 3in. |
| | Superior 3100 1-1/2" Normally Open Brass Master Valve that Provides Dirty Water Protection. Available in 3/4in., 1in., 1-1/4in., 1-1/2in., 2in., 2-1/2in. and 3in.. |
| | Apollo valves 4A107A4F 1-1/2" Dual check valve backflow preventer, inlet size 1-1/2in., union end ball valves, SAE testcocks |
| | Rain Bird ESP-LXD 50 Station, 2-Wire Decoder based Controller. (1) ESP-LXD 50-Station, Indoor/Outdoor, Plastic Wall-Mount Enclosure. |
| | Rain Bird IQ4G-USA IQ NCC 4G Cellular Cartridge upgrades ESP-LX Series controllers to IQ satellite, for communication with IQ central control. |
| | Rain Bird WR2-RFS Wireless Rain/Freeze Sensor. Creative Sensor Technology FSI-T15-001 1.5in. PVC tee type flow sensor w/socket ends, custom mounting tee and ultra lightweight impeller enhances low flow measurement. 2 wire digital output compatible w/all irrigation controllers. Flow range 1.8 GPM - 108 GPM. |
| | 2-Wire Grounding Point Install as per plan detail and manufacturers instructions. |
| | Water Meter 1-1/2" |

----- Irrigation Lateral Line: PVC Class 200 SDR 21

----- Irrigation Mainline: PVC Class 200 SDR 21

----- Pipe Sleeve: PVC Schedule 40



REFERENCE NOTES SCHEDULE

| SYMBOL | DESCRIPTION |
|--------|--|
| | Irrigation system water source to be a 1-1/2" service line to a 1-1/2" meter. System requirements are 42 gpm at a static pressure of 64 psi. Verify available flow and static pressure prior to construction. |
| | DCV backflow preventer in a jumbo valve box. Install with centerline 12" below FG. |
| | Install Master Valve and Flow Sensor with centerline 12" below FG as per plan detail and manufacturers instructions. |
| | Coordinate the exact location of the controller with the owners representative. Provide 120v 20 amp power to the controller from a dedicated circuit. Install controller as per plan notes, details and manufacturers instructions. |
| | Install and program cell data modem cartridge in the controller as per manufacturers instructions. Provide 1 year of Rain Bird IQ4 remote operating system in the owners name. |
| | Coordinate the exact location of the Wireless Rain Freeze sensor with the owners representative. Install and program as per plan detail and manufacturers instructions. |
| | Install all inline drip tubing 3" below FG as per plan notes and details. |
| | All 2-wire cable to be installed in 1" SCH 40 PVC electrical conduit. Install conduit next to the mainline. Install 14 ga tracer wire from controller to each control valve. Leave 30' of 2-wire cable and 24" of tracer wire in each valve box. |

CRITICAL ANALYSIS

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P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Water Meter Size: 1-1/2"
Flow Available: 75 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 66 PSI
Elevation Change: 5.00 ft
Service Line Size: 3"
Length of Service Line: 10 ft
Pressure Available: 63 PSI

DESIGN ANALYSIS
Maximum Station Flow: 42.01 GPM
Flow Available at POC: 75 GPM
Residual Flow Available: 32.99 GPM

Critical Station: 26
Design Pressure: 40 PSI
Friction Loss: 4.24 PSI
Fittings Loss: 0.42 PSI
Elevation Loss: 0 PSI
Loss through Valve: 3.62 PSI
Pressure Req. at Critical Station: 48.3 PSI
Loss for Fittings: 0.24 PSI
Loss for Main Line: 2.42 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 4.64 PSI
Loss for Master Valve: 0.96 PSI
Loss for Water Meter: 1.73 PSI
Critical Station Pressure at POC: 58.3 PSI
Pressure Available: 63 PSI
Residual Pressure Available: 4.72 PSI

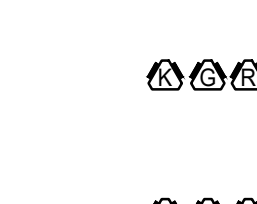
IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|--------|---|
| | Hunter PROS-06-PRS30-CV Strip Series Turf Spray, 30 psi regulated 6in. Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material. |
| | Hunter PROS-06-PRS30-CV 10 Series Turf Spray, 30 psi regulated 6in. Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material. |
| | Hunter PROS-06-PRS30-CV 12 Series Turf Spray, 30 psi regulated 6in. Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material. |
| | Hunter PROS-06-PRS30-CV Adj Series Turf Spray, 30 psi regulated 6in. Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material. |
| | Hunter PROS-12-PRS30-CV Strip Series Shrub Spray, 30 psi regulated 12in. Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material. |
| | Hunter PROS-12-PRS30-CV 10 Series Shrub Spray, 30 psi regulated 12in. Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material. |
| | Hunter PROS-12-PRS30-CV 12 Series Shrub Spray, 30 psi regulated 12in. Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material. |
| | Hunter PROS-12-PRS30-CV 15 Series Shrub Spray, 30 psi regulated 12in. Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material. |
| | Hunter PROS-12-PRS30-CV Adj Series Shrub Spray, 30 psi regulated 12in. Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material. |
| | Hunter MP1000 PROS-06-PRS40-CV Turf Rotator, 6in. pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body, M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc. |
| | Hunter MP2000 PROS-06-PRS40-CV Turf Rotator, 6in. pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body, K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc. |
| | Hunter MP3000 PROS-06-PRS40-CV Turf Rotator, 6in. pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body, B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc. |
| | Hunter MP2000 PROS-12-PRS40-CV Shrub Rotator, 12in. pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc on PRS40 body. |
| | Hunter MP3000 PROS-12-PRS40-CV Shrub Rotator, 12in. pop-up with check valve, pressure regulated to 40 psi, MP rotary nozzle. B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc on PRS40 body. |

----- Irrigation Lateral Line: PVC Class 200 SDR 21

----- Irrigation Mainline: PVC Class 200 SDR 21

----- Pipe Sleeve: PVC Schedule 40



----- Irrigation Lateral Line: PVC Class 200 SDR 21

----- Irrigation Mainline: PVC Class 200 SDR 21

----- Pipe Sleeve: PVC Schedule 40

----- Irrigation Lateral Line: PVC Class 200 SDR 21

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----- Pipe Sleeve: PVC Schedule 40

----- Irrigation Lateral Line: PVC Class 200 SDR 21

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----- Pipe Sleeve: PVC Schedule 40

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----- Pipe Sleeve: PVC Schedule 40

----- Irrigation Lateral Line: PVC Class 200 SDR 21

----- Irrigation Mainline: PVC Class 200 SDR 21

----- Pipe Sleeve: PVC Schedule 40



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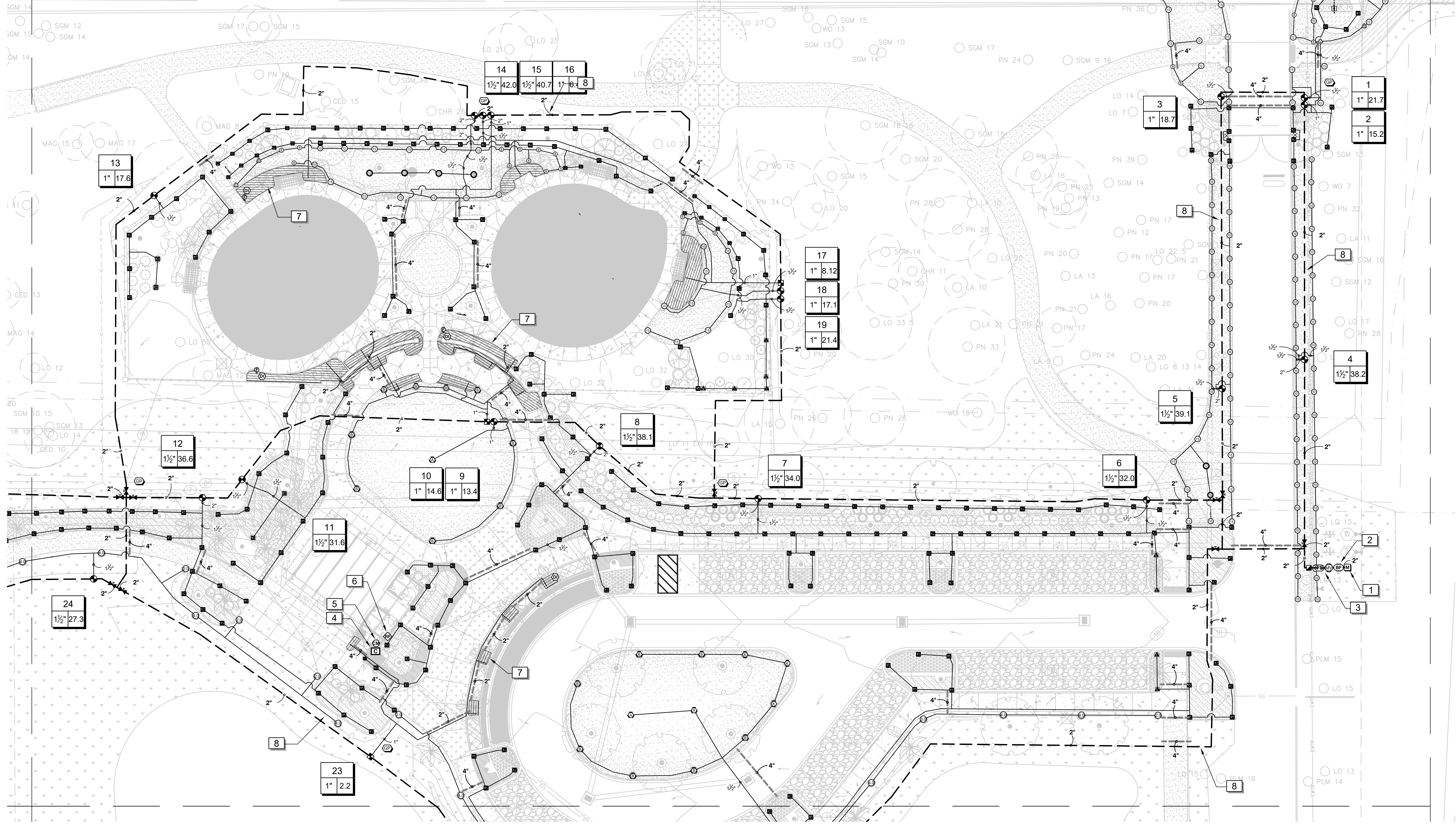
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

IRRIGATION PLAN

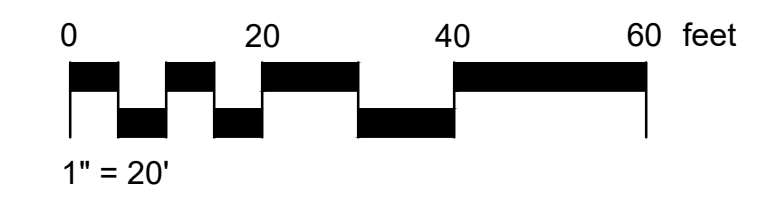
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SOUTHSIDE BOULEVARD (66' R/W)



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BEAUFORT, SC 29902

PROJECT TITLE
**SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS**

DRAWING TITLE
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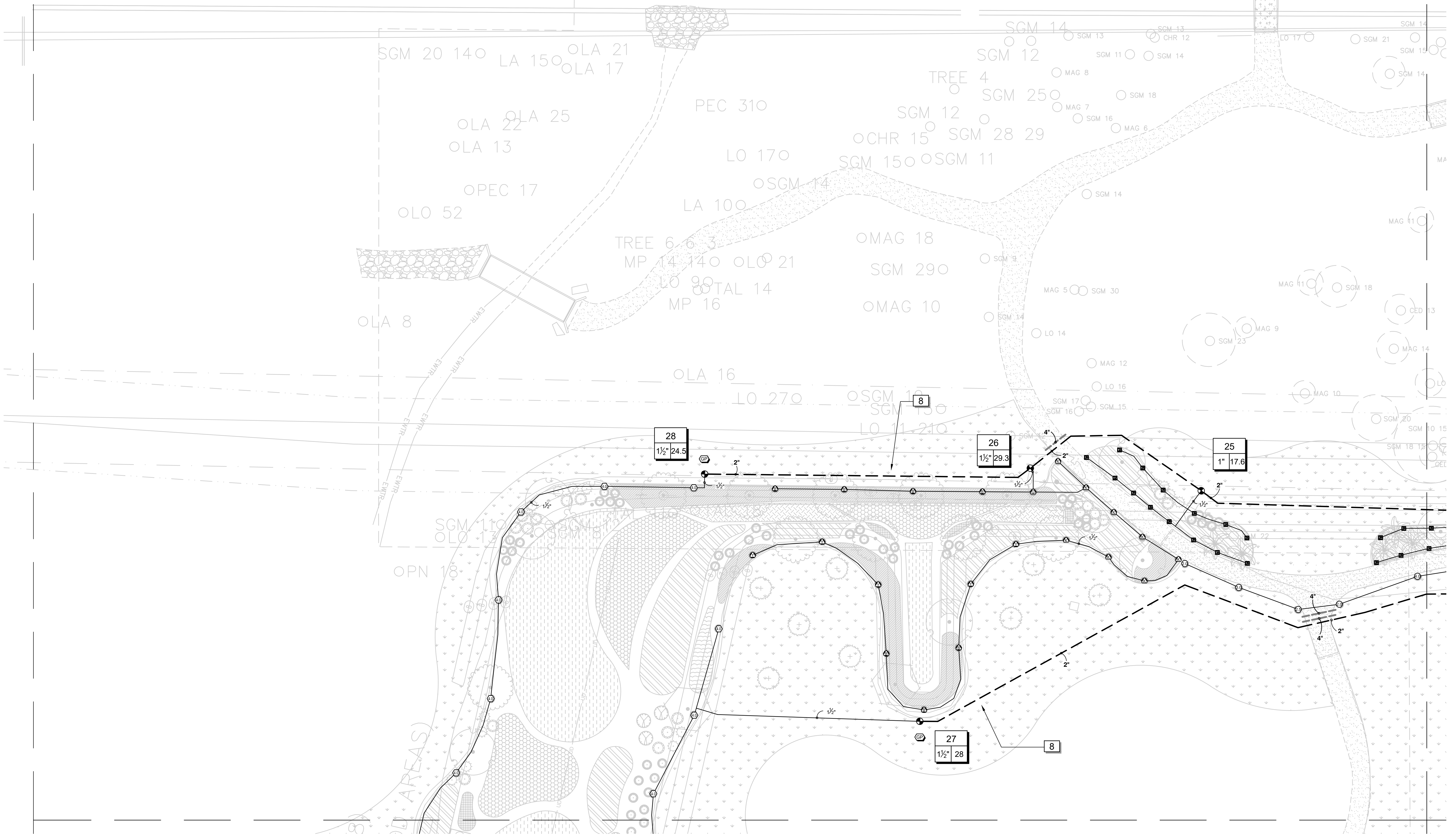
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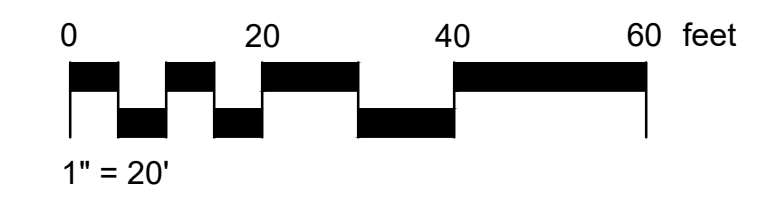
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SOUTHSIDE BLVD



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SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

IRRIGATION PLAN

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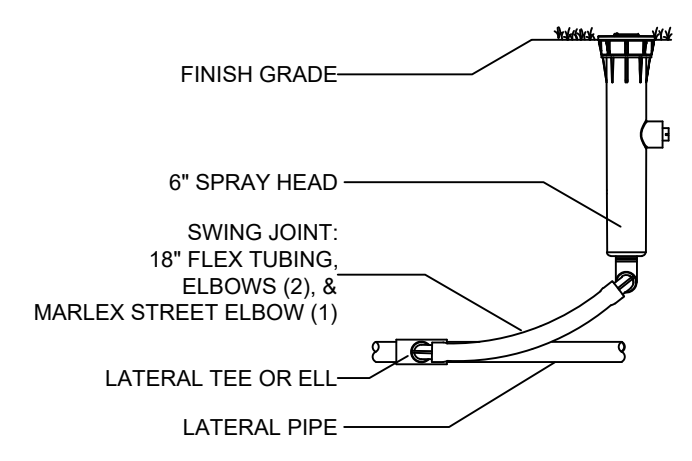
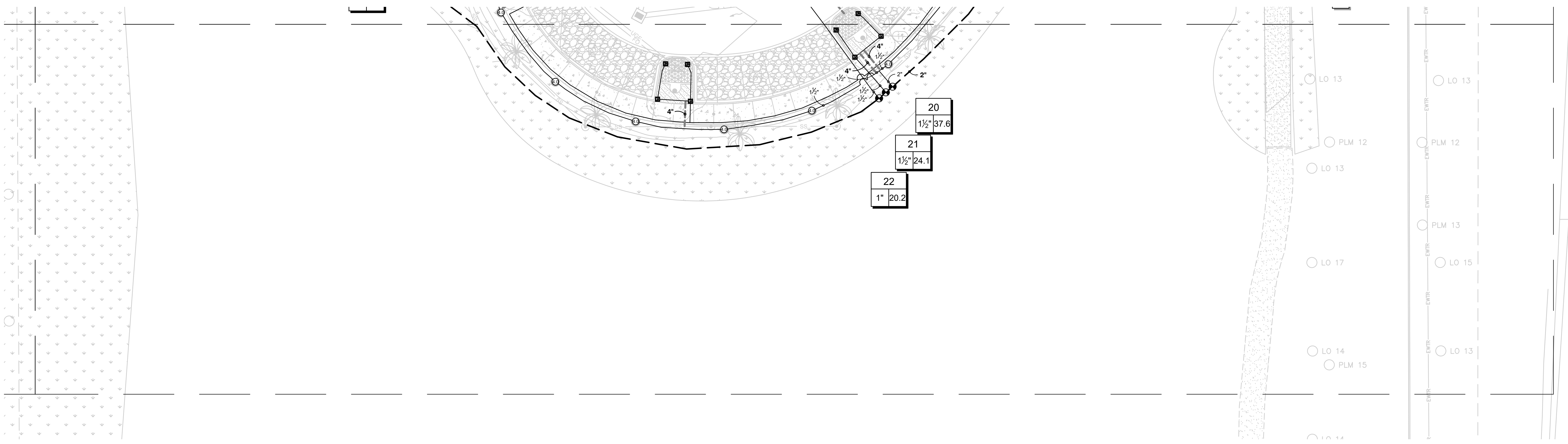
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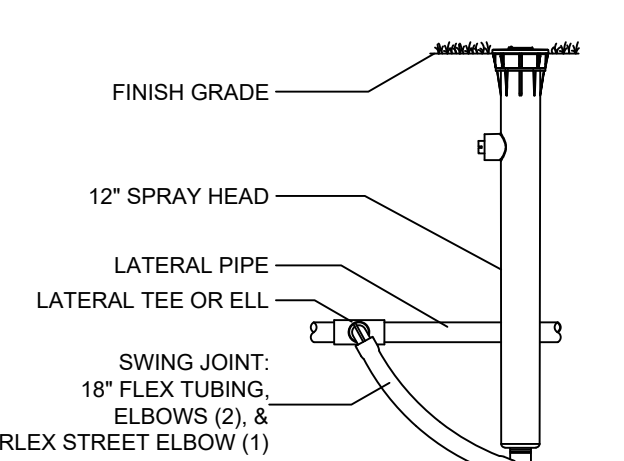
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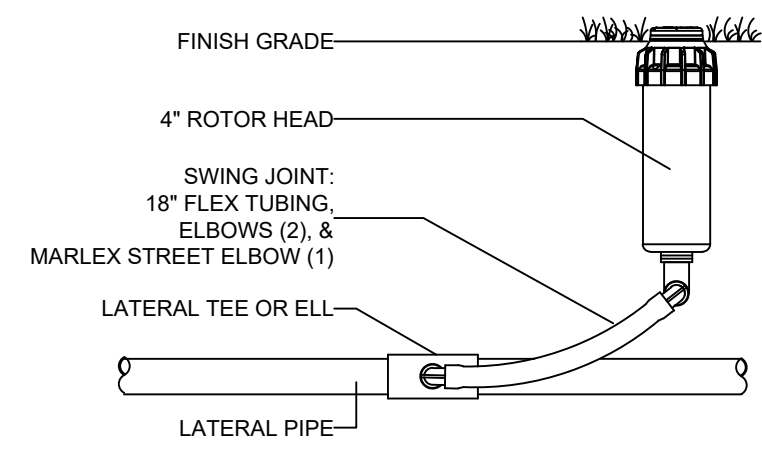
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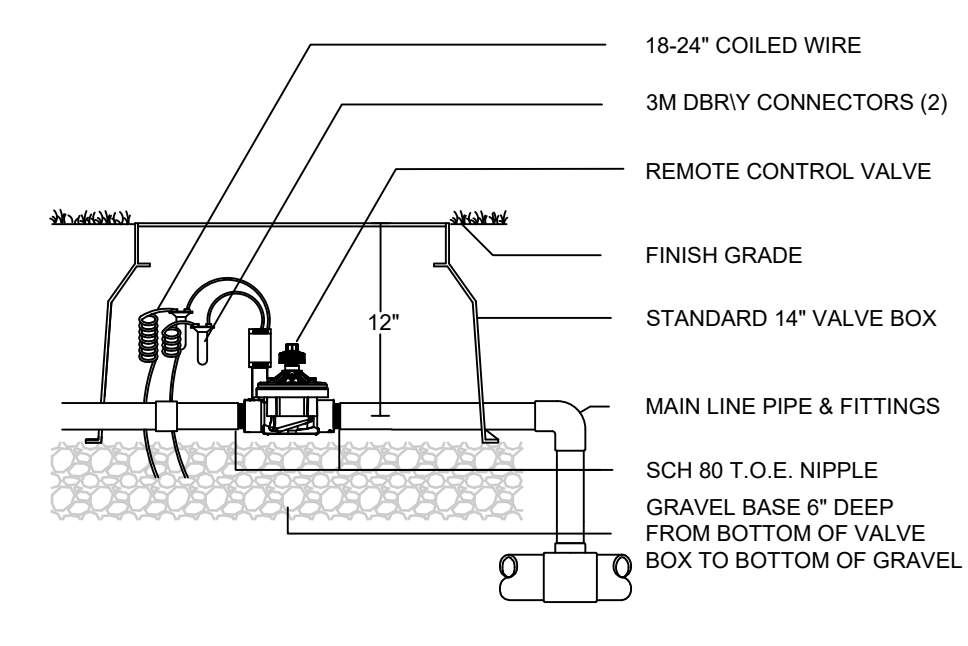
1 6" SPRAY BODY
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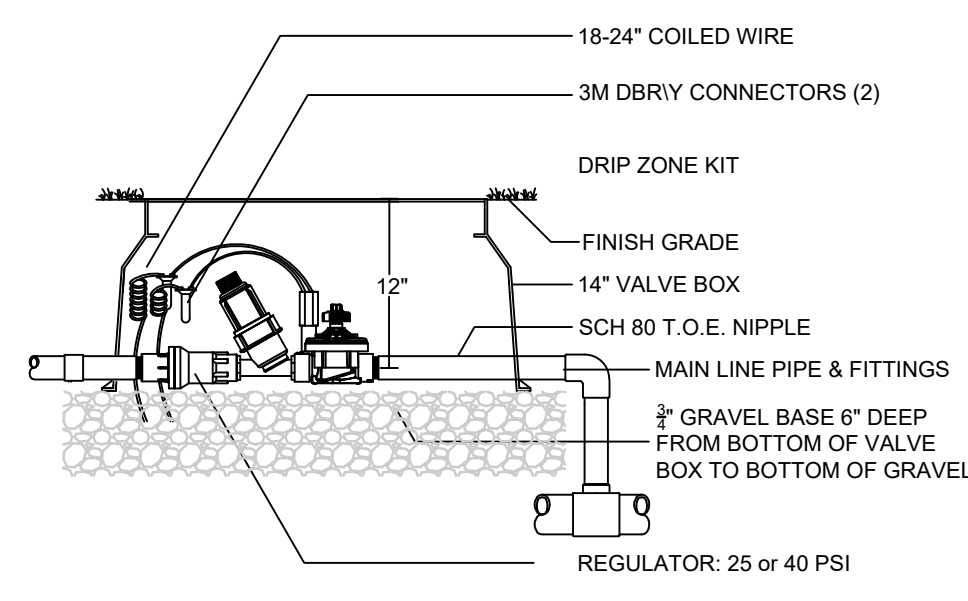
2 12" SPRAY BODY
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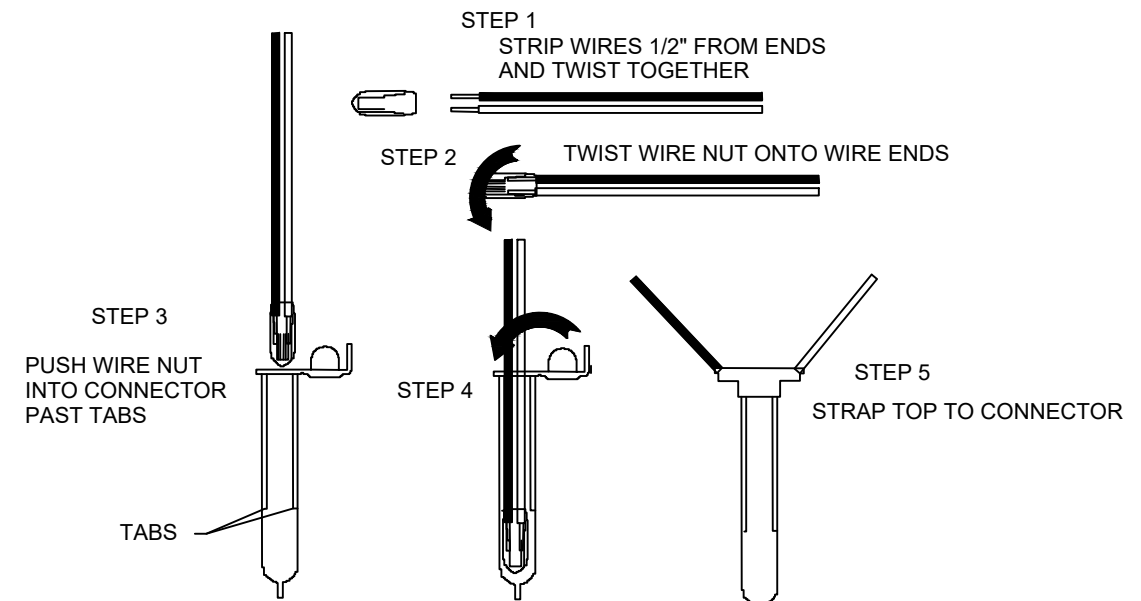
3 3/4" INLET ROTOR
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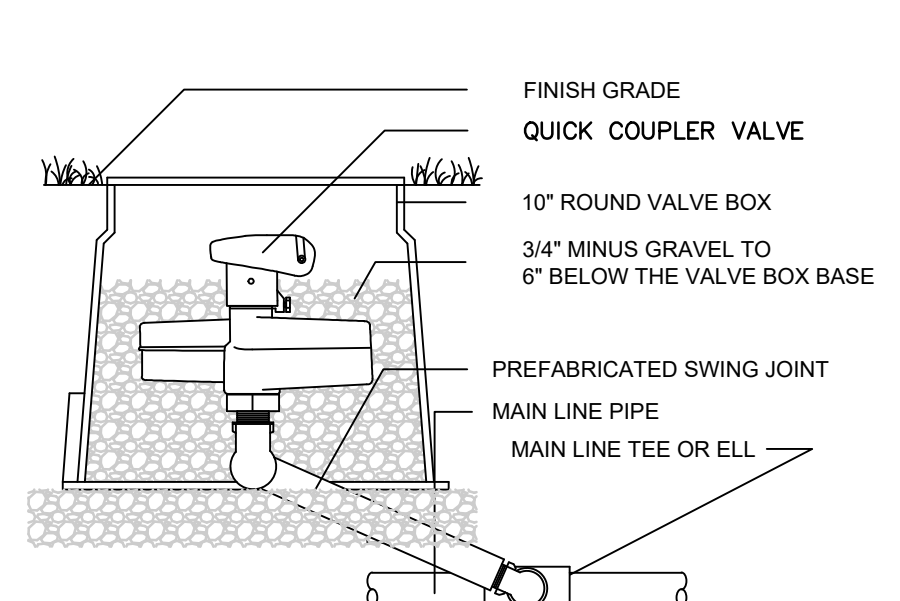
4 ELECTRIC CONTROL VALVE
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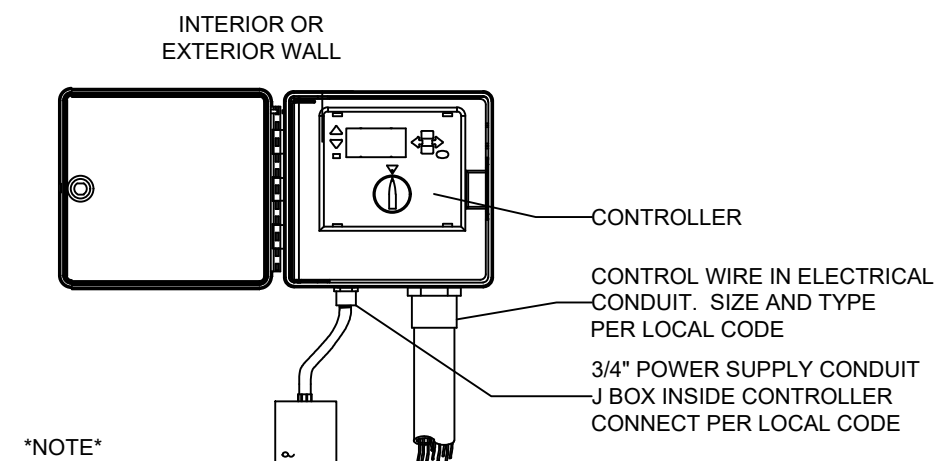
5 DRIP CONTROL ZONE
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6 WIRE CONNECTION 3M-DBR6-Y
NYS

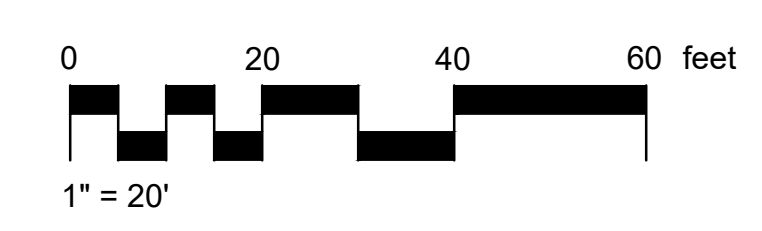


7 QUICK COUPLER VALVE
NYS



8 WALL MOUNT CONTROLLER
NYS

NOTE
MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL. CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 or 220 VAC SOURCE.



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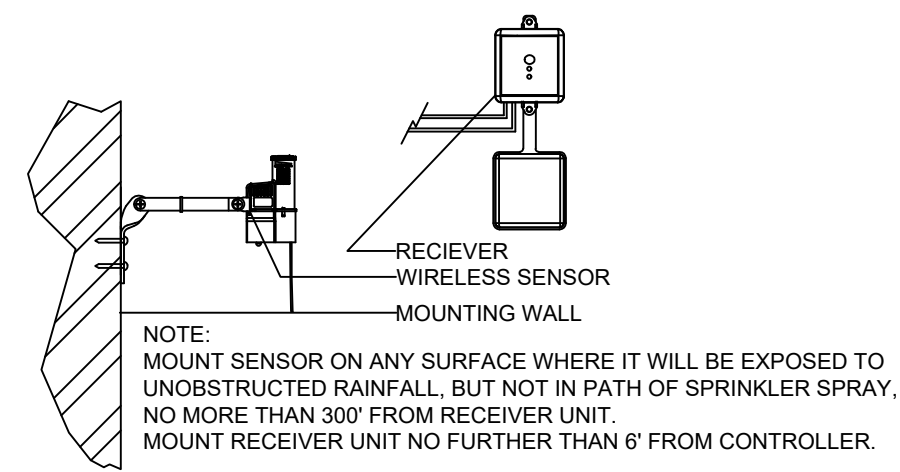
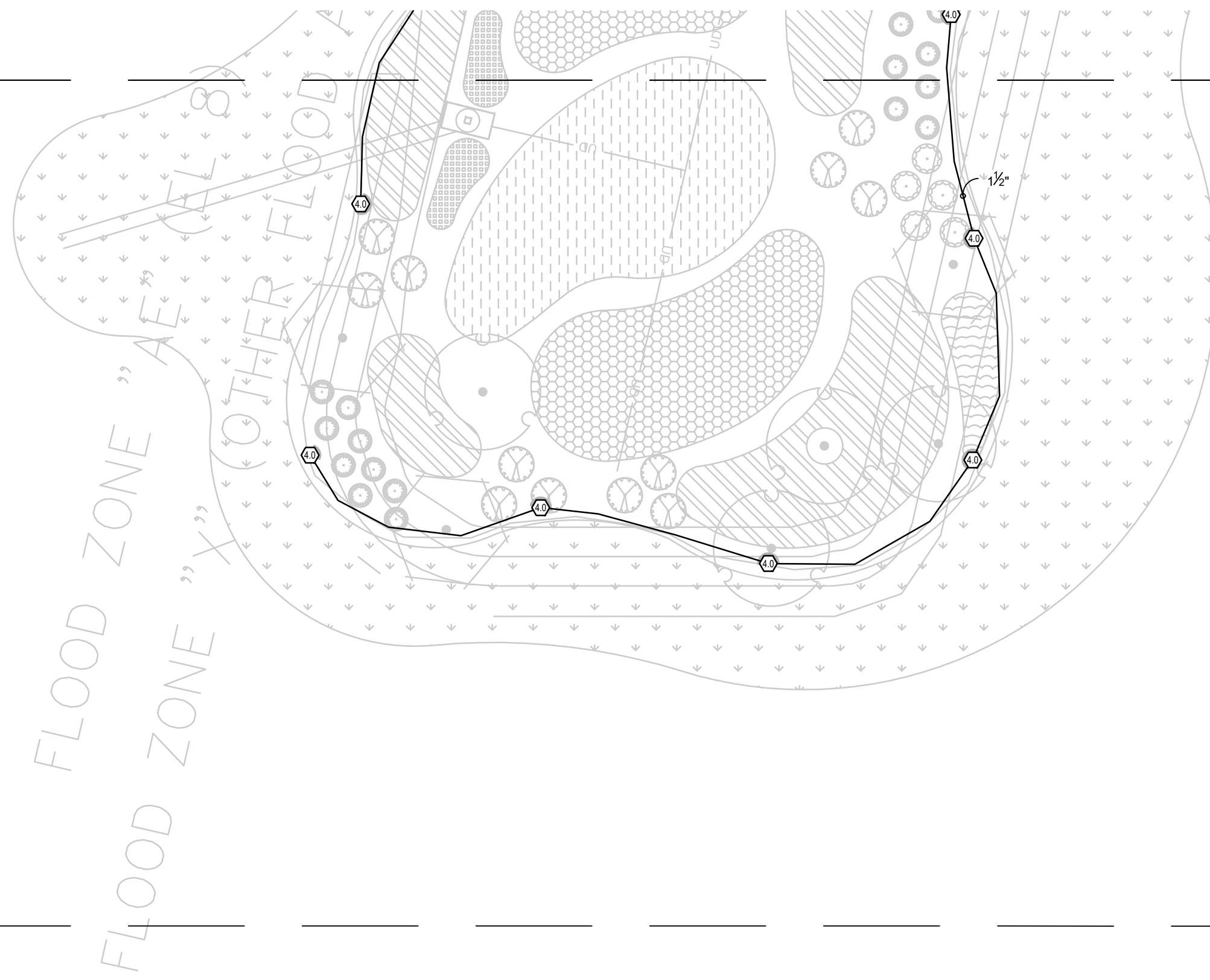
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BEAUFORT, SC 29502

SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

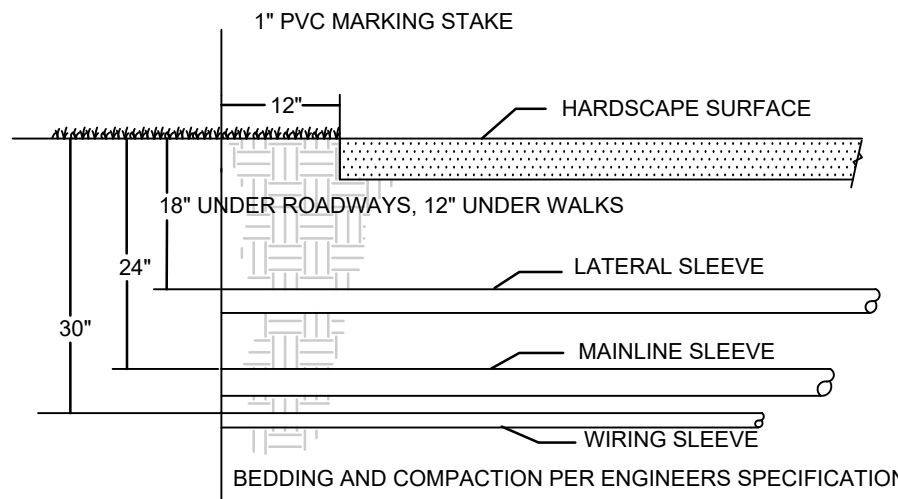
IRRIGATION PLAN

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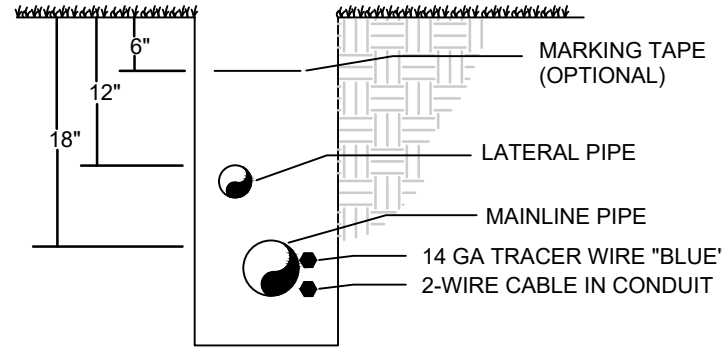
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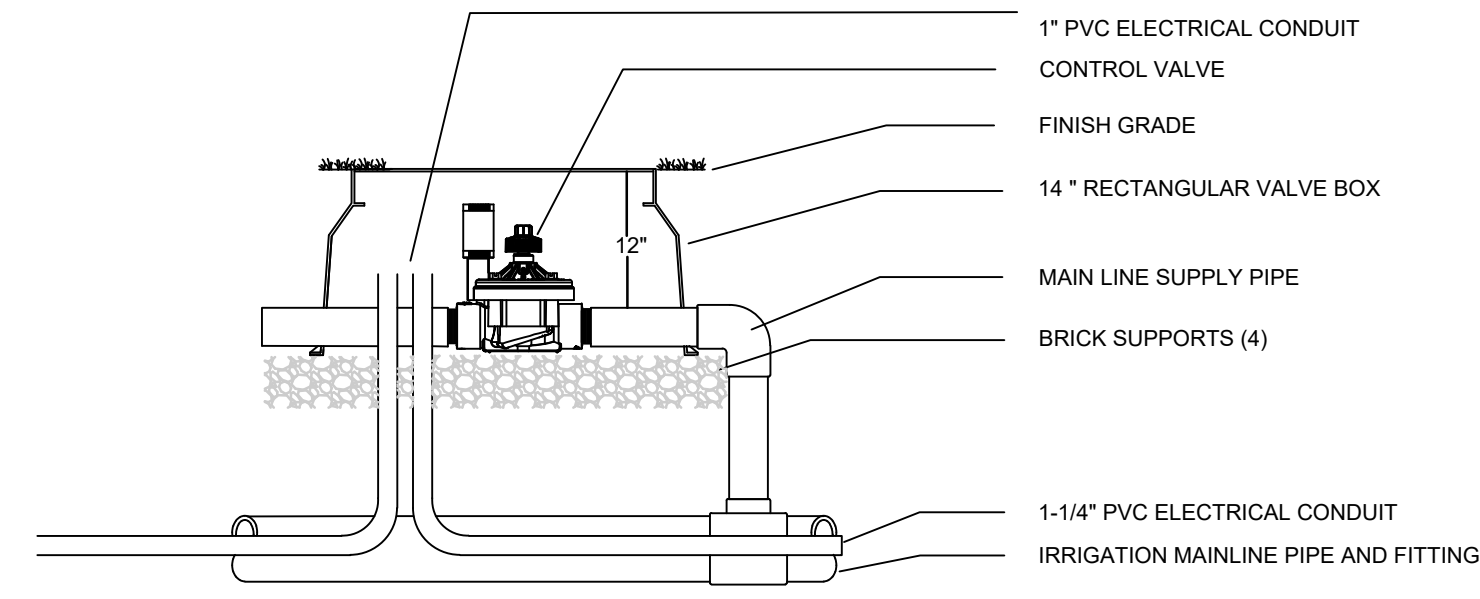
9 WIRELESS RAIN SENSOR
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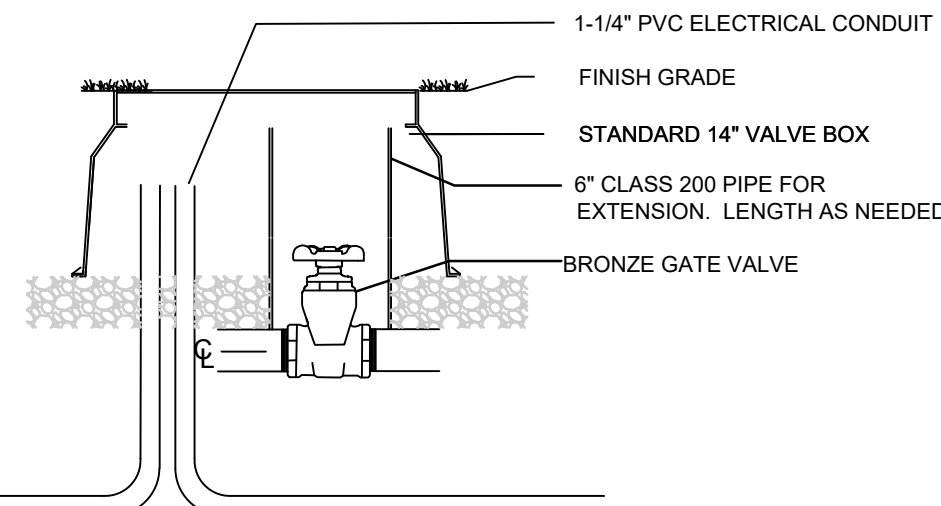
10 SLEEVING
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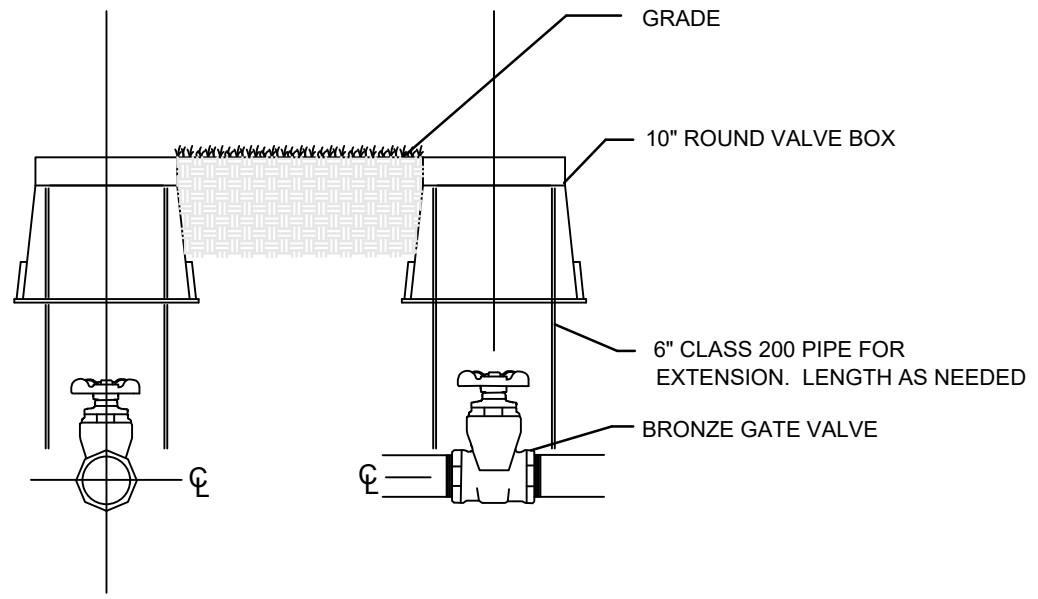
11 TRENCH, PIPE AND WIRE
 NTS



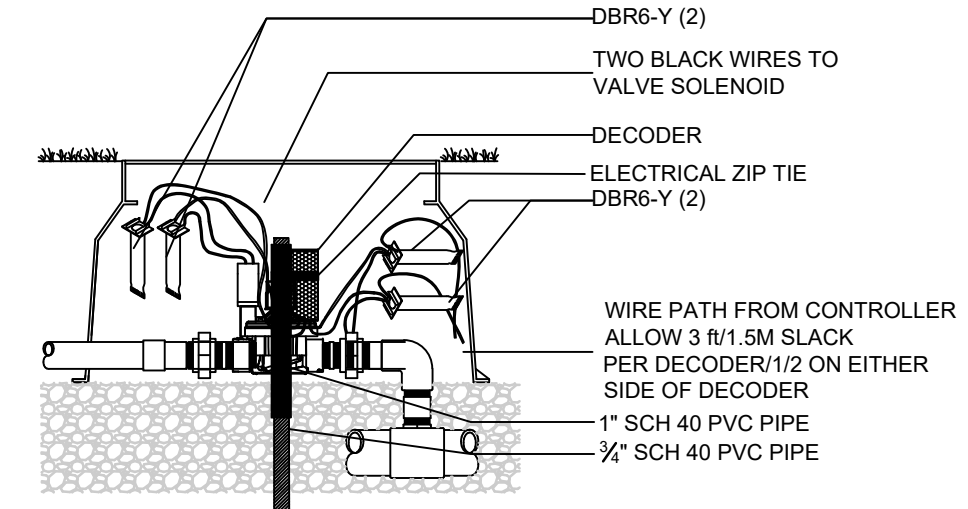
12 IRRIGATION SUPPLY VALVE AND CONTROL WIRE CONDUIT
 NTS



13 IRRIGATION ISOLATION VALVE AND CONTROL WIRE CONDUIT
 NTS

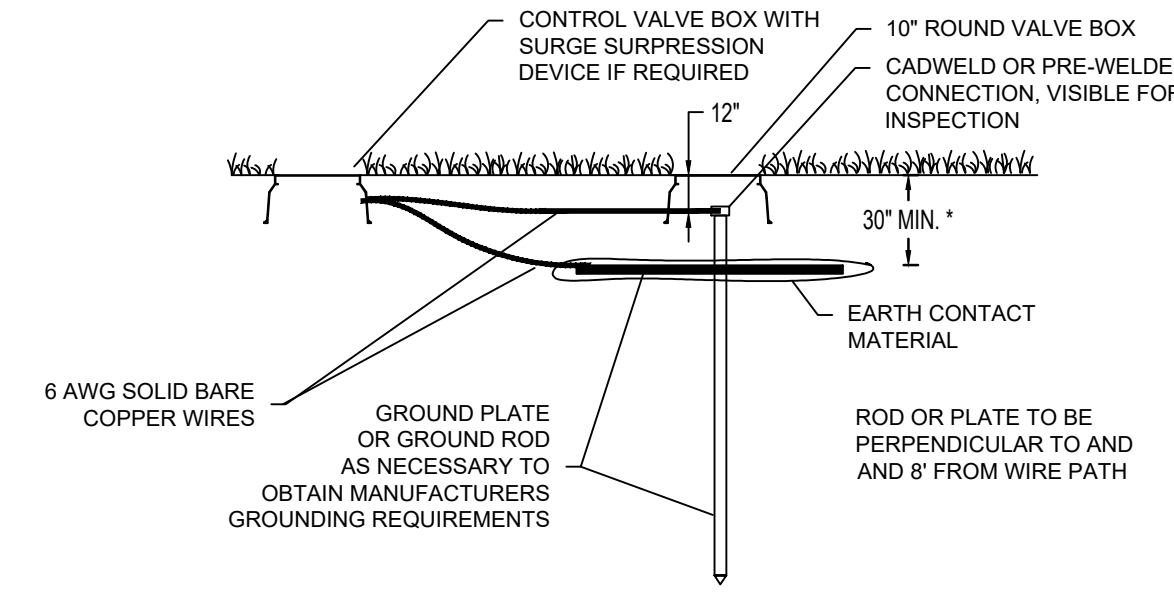


14 ISOLATION VALVE DETAIL
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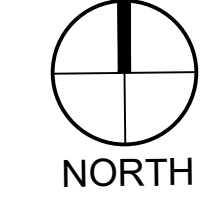
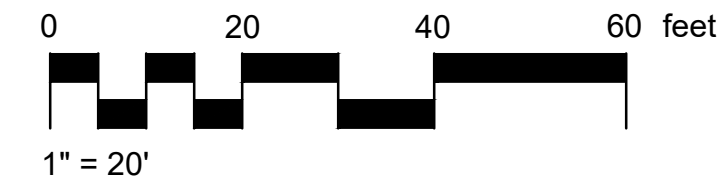


15 DECODER VALVE BOX INSTALLATION
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SIDE VIEW



16 TWO WIRE GROUNDING POINT DETAIL
 NTS



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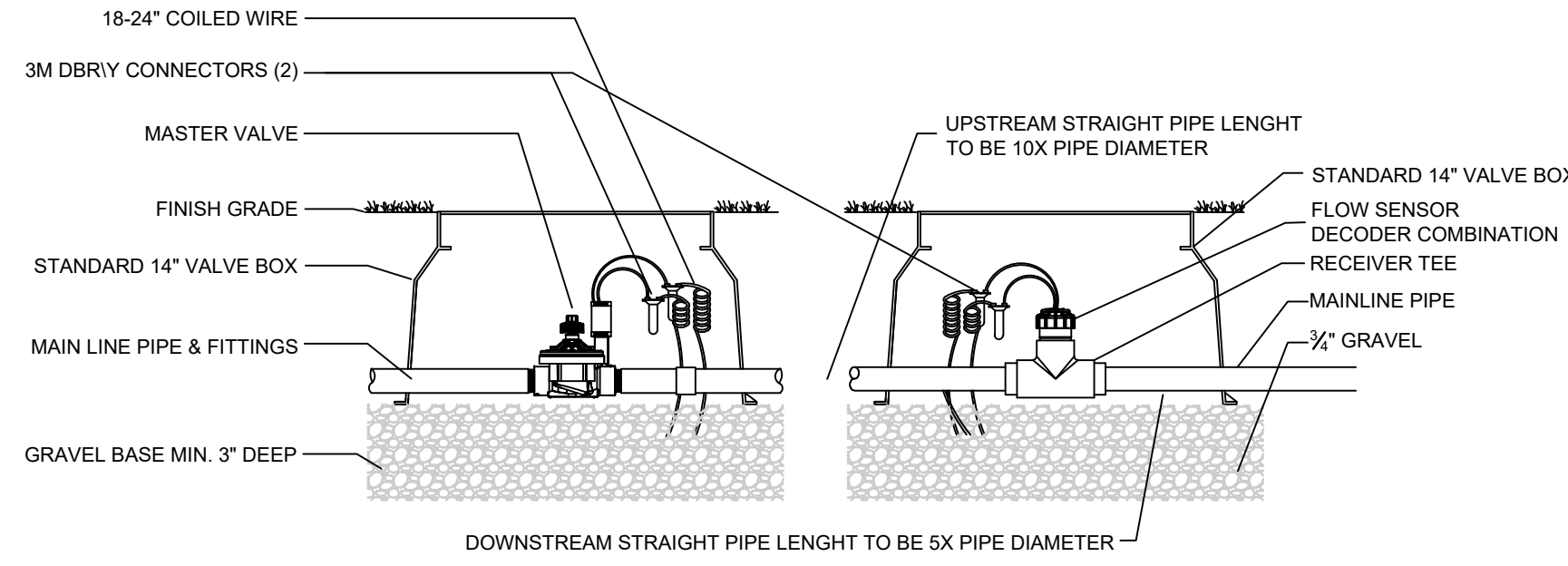
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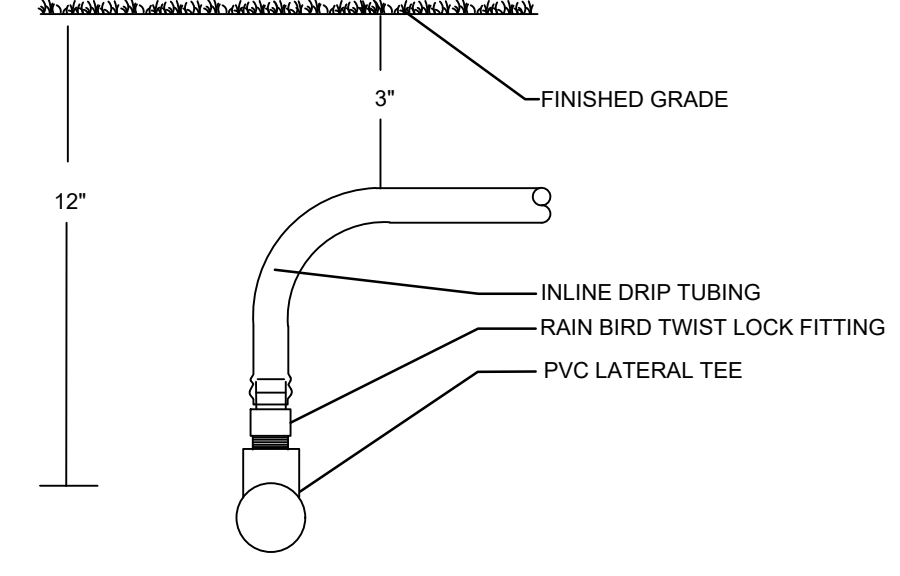
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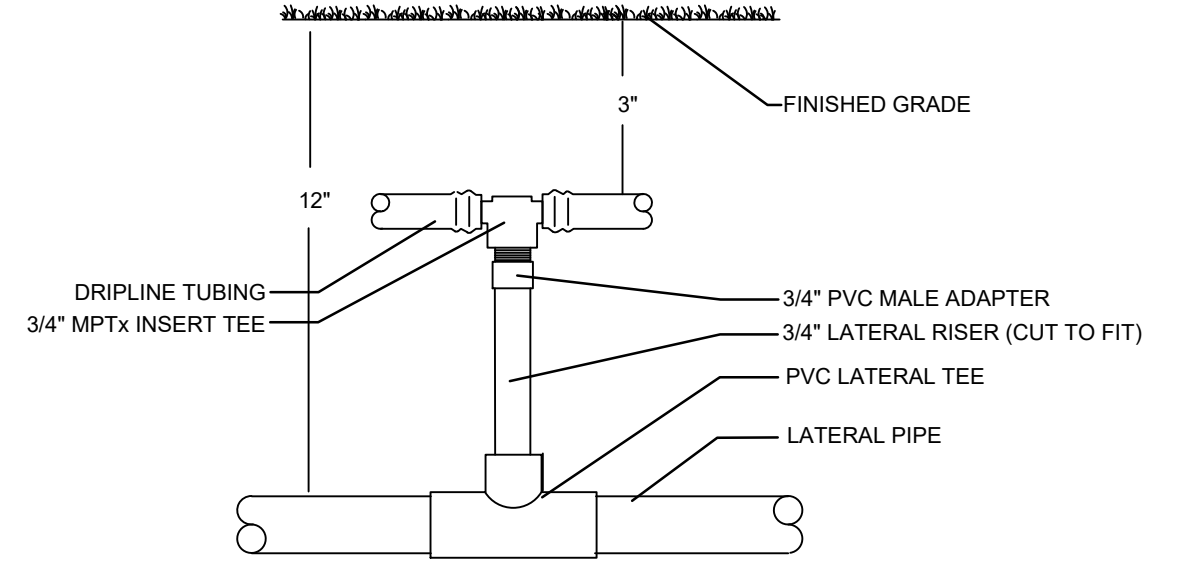
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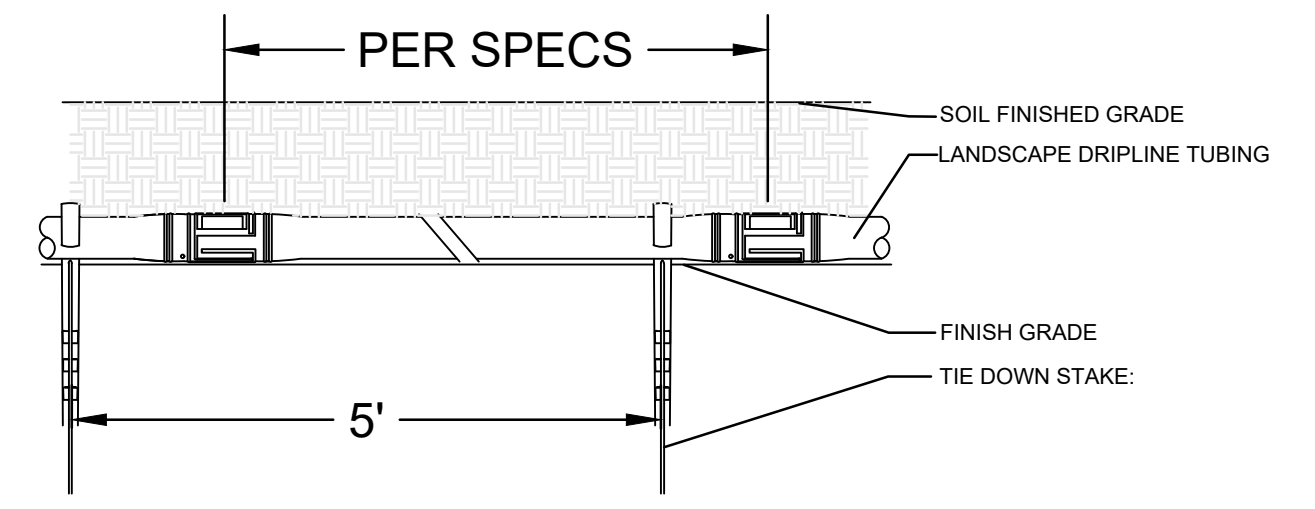
17 MASTER VALVE FLOW SENSOR
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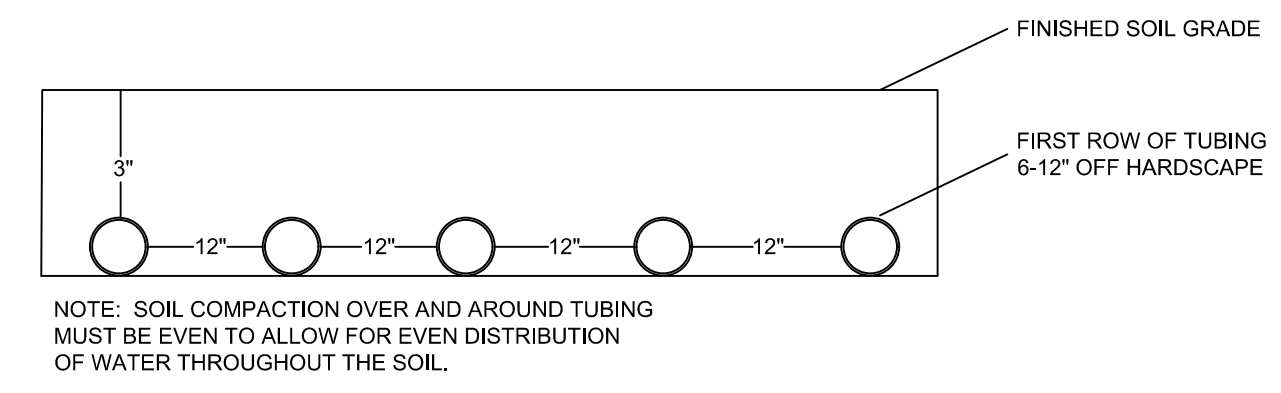
18 START CONNECTION SUB-GRADE DRIPLINE
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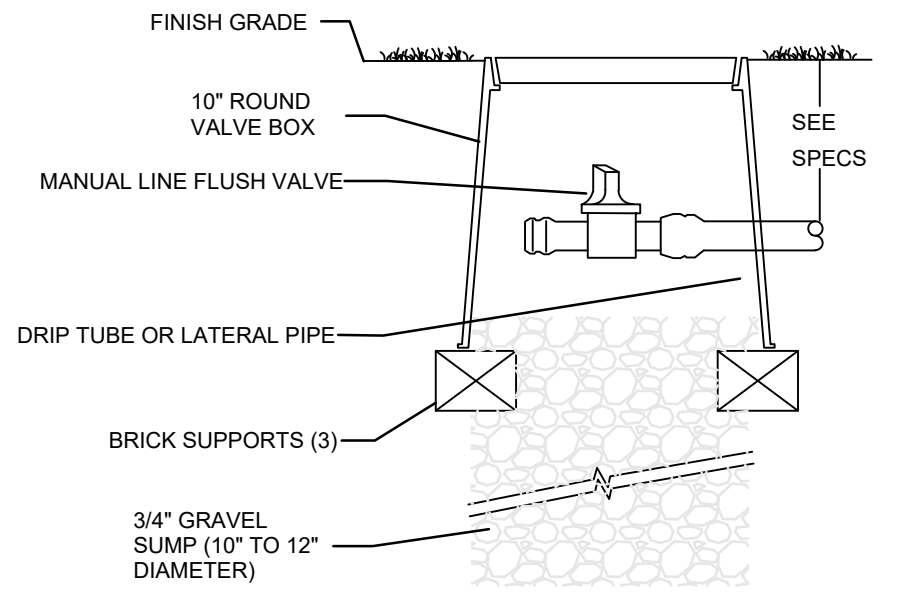
19 START CONNECTION SUB-GRADE DRIPLINE
NTS (WITH PVC RISER)



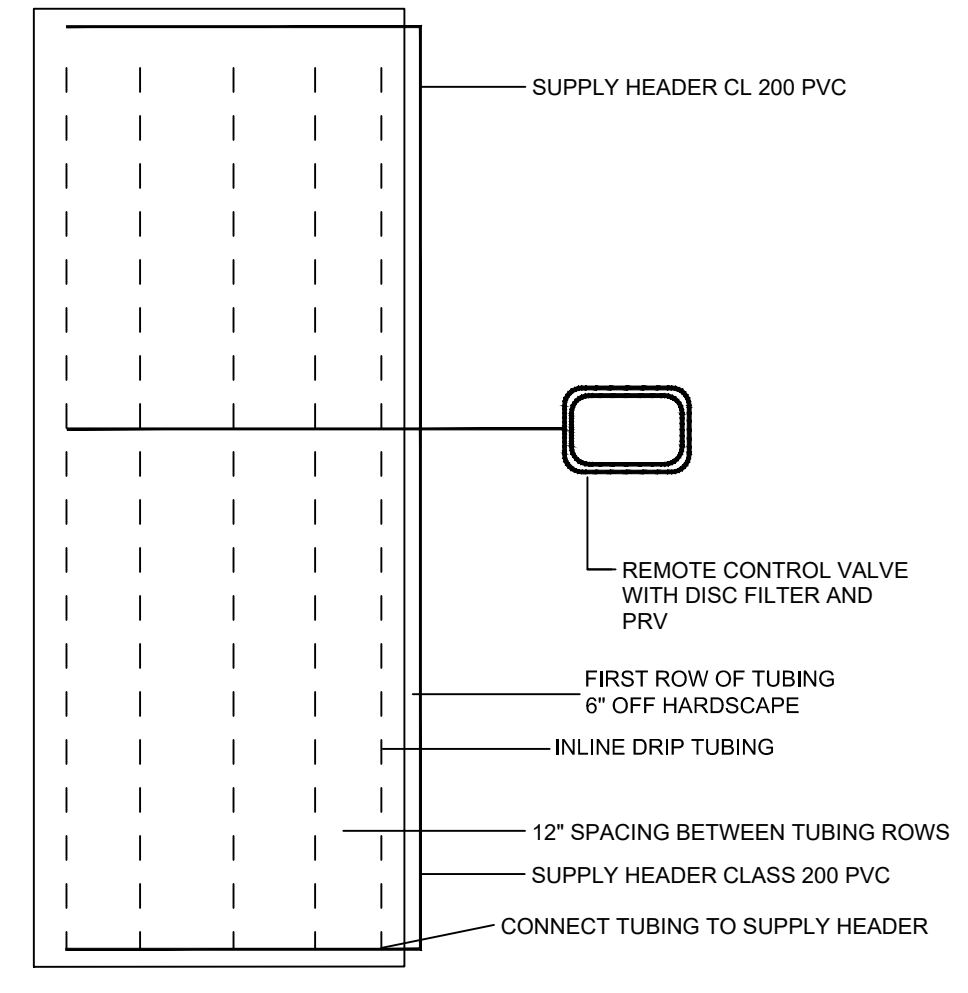
20 SUB-GRADE DRIPLINE
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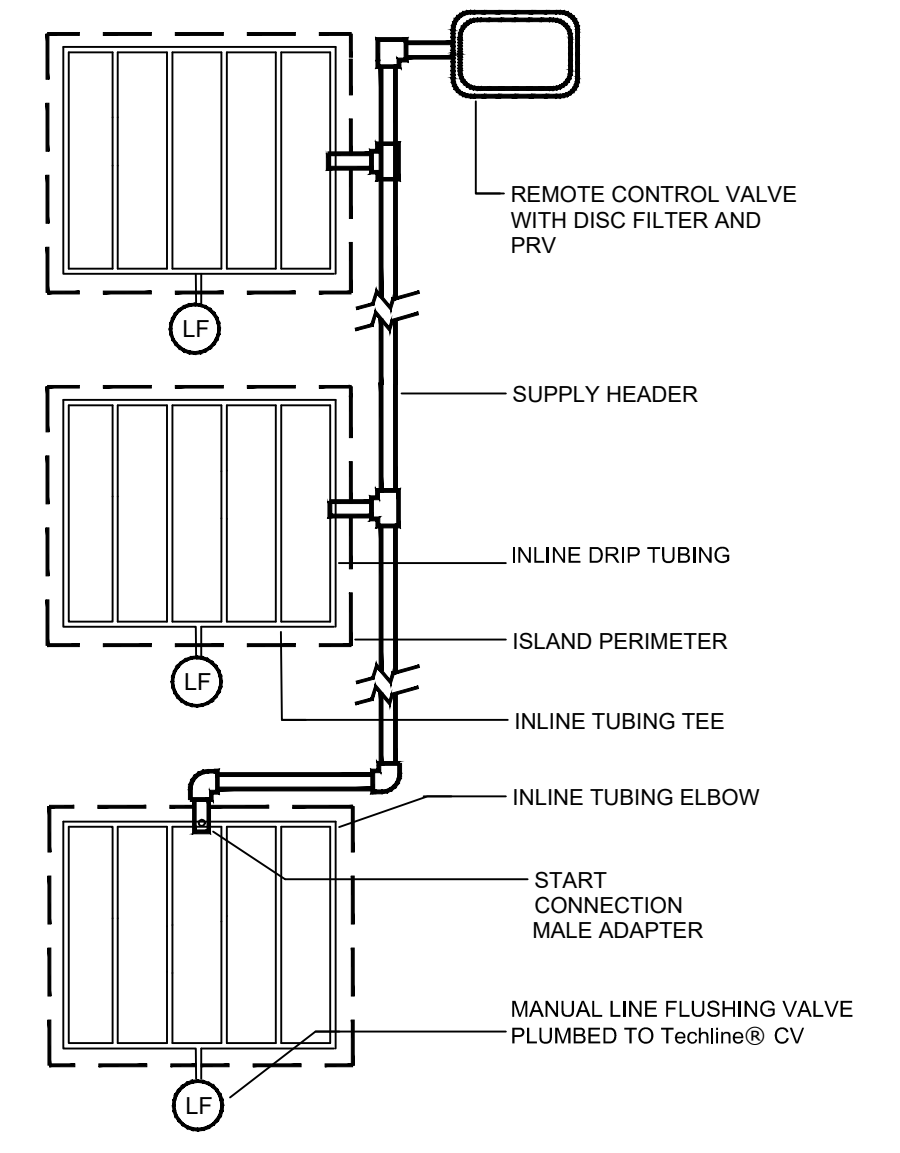
21 SUB-SURFACE INLINE DRIP TUBING
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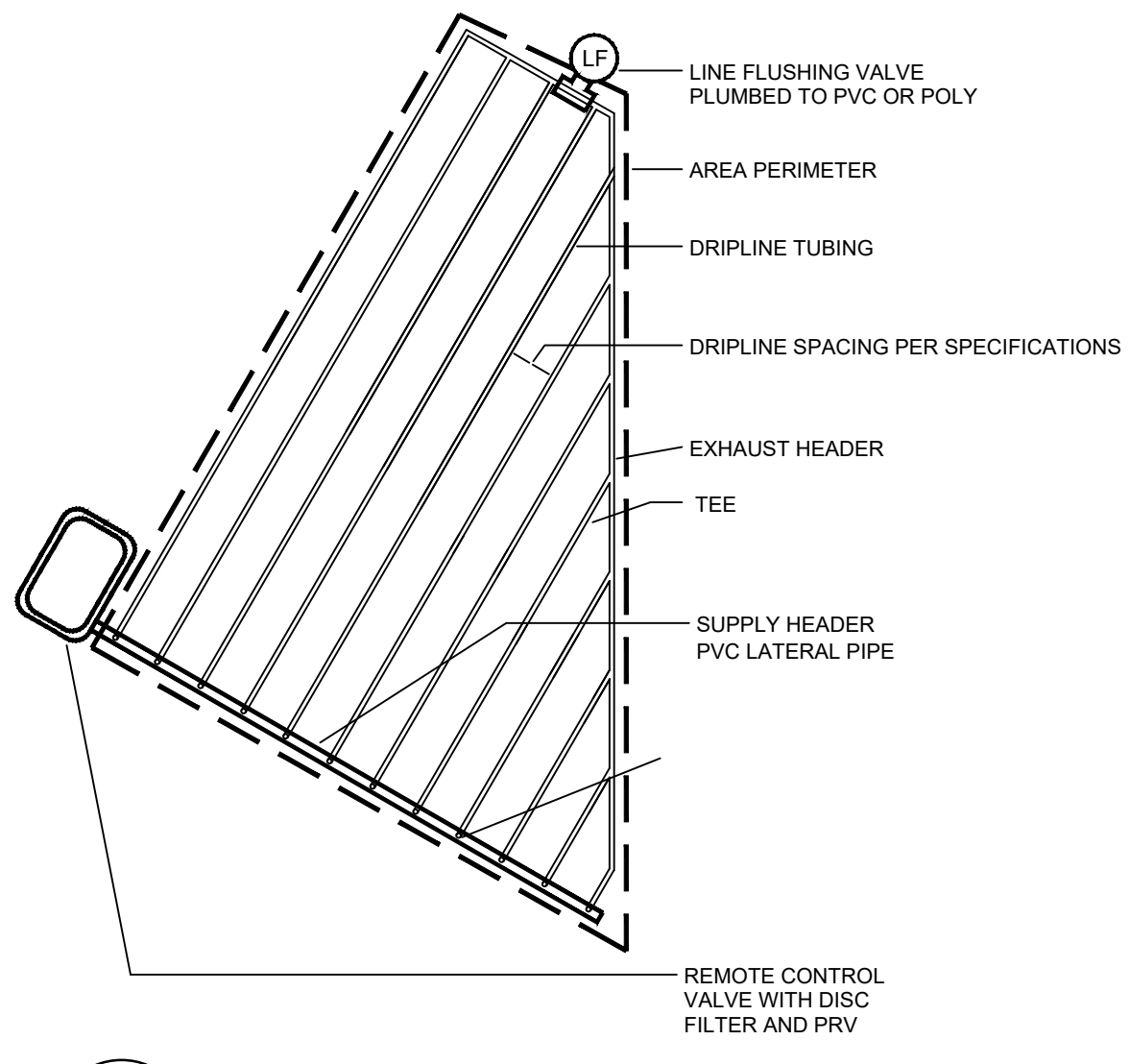
22 MANUAL LINE FLUSHING VALVE
NTS



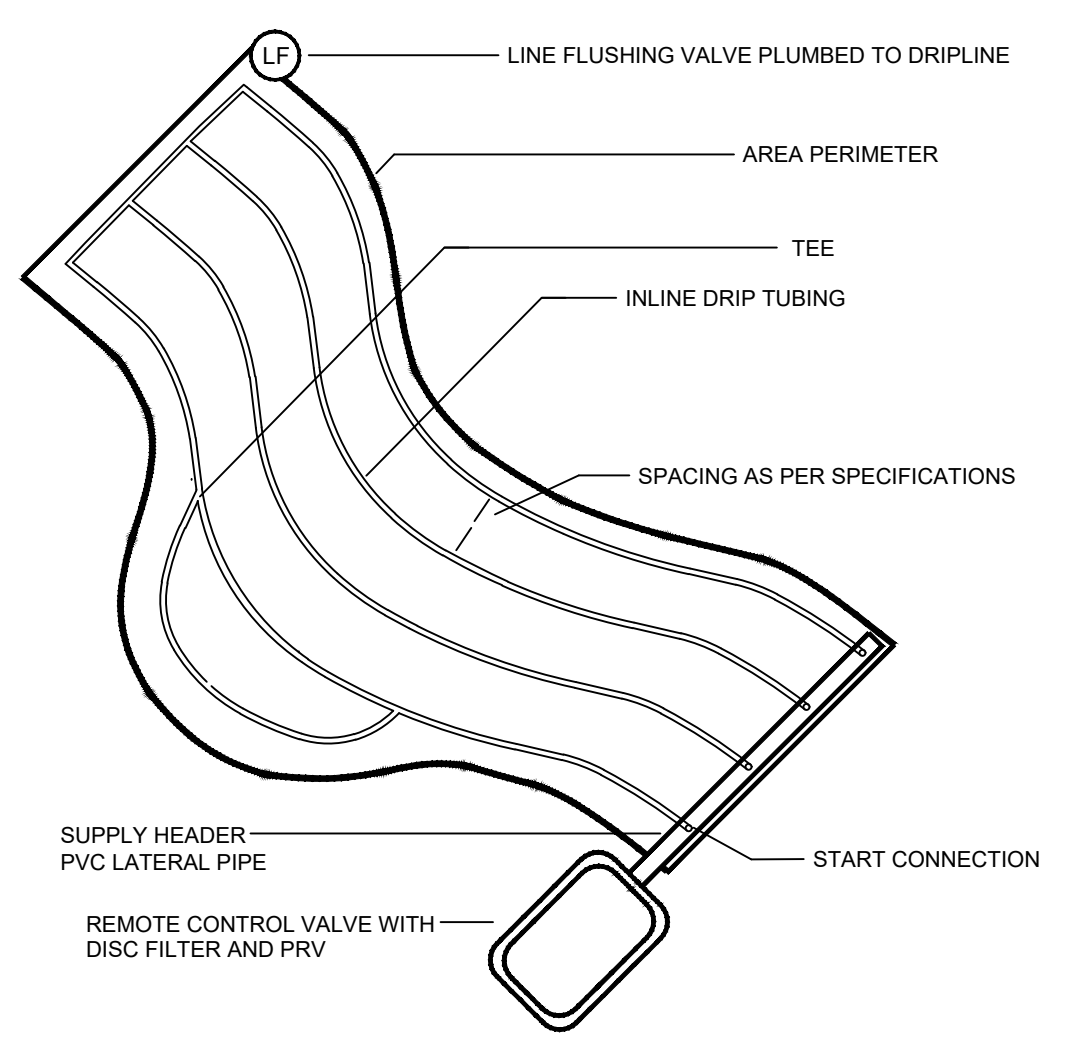
23 INLINE DRIP TUBING FOR SHRUBS
NTS



24 ISLAND LAYOUT
NTS



25 IRREGULAR AREA
NTS



26 IRREGULAR AREA
NTS

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PLAYGROUND AREA IMPROVEMENTS

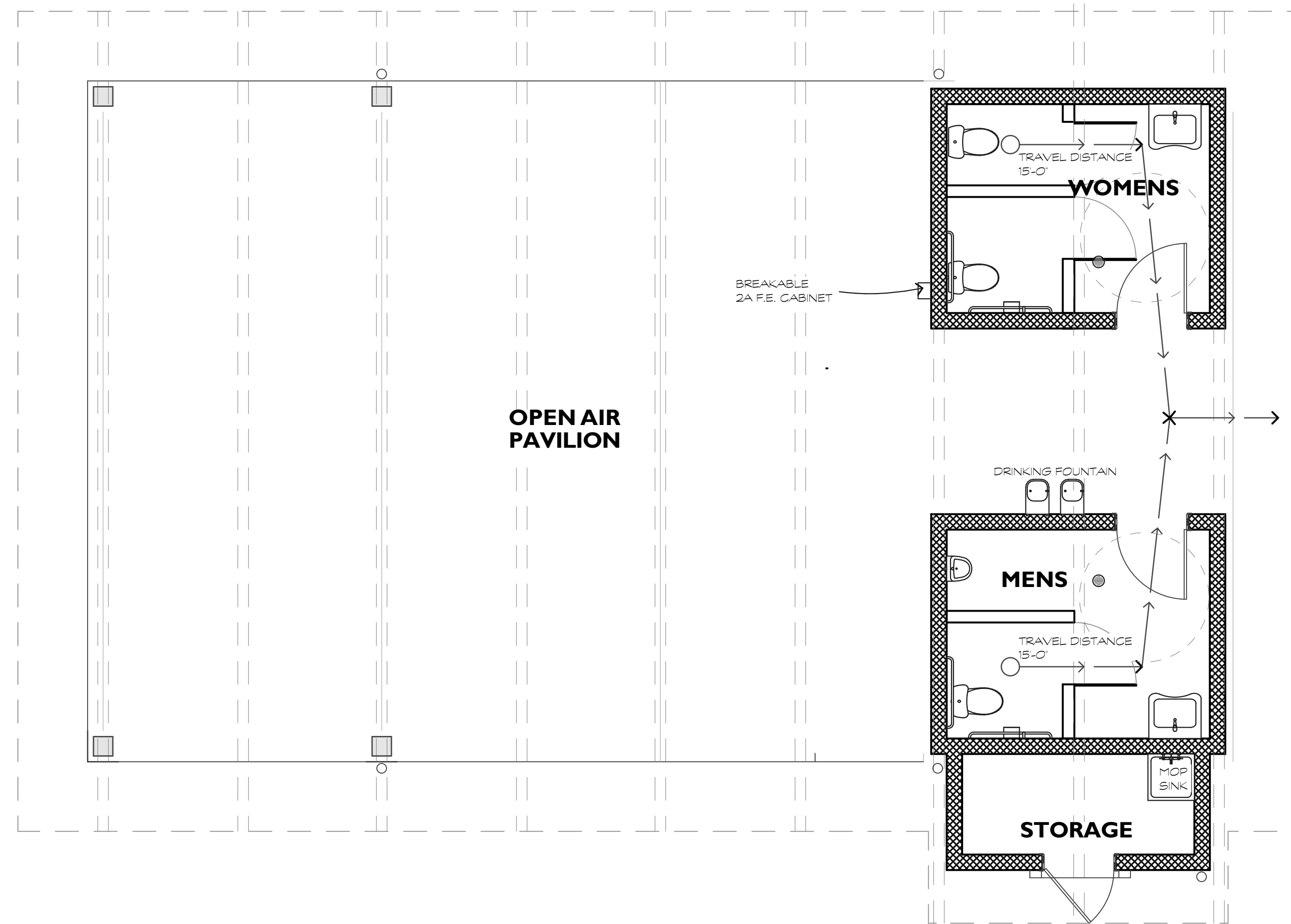
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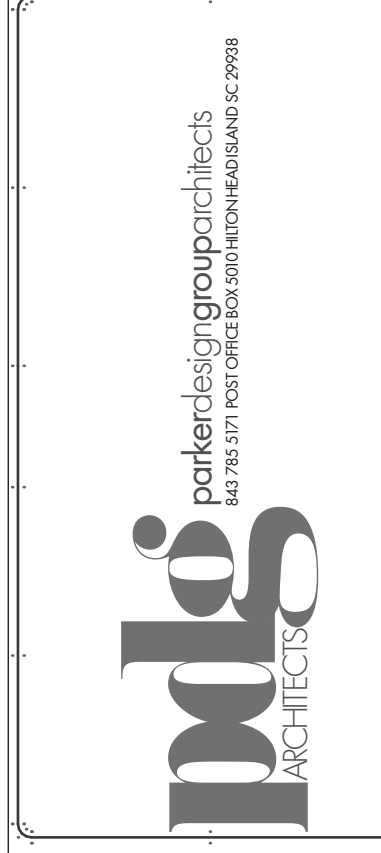
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| 4 | | APPROVED | TC | TC |



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



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BEAUFORT, SC 29902
PROJECT TITLE
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

A NEW PAVILION FOR SOUTHSIDE PARK

| ARCHITECT | STRUCTURAL ENGINEER | MEP ENGINEER |
|--|---|---|
| PDG Architects Post Office Box 5010 Hilton Head Island, South Carolina 29938 843. 785. 5171 Tim@PDG-Architects.com | ShearLock Engineering 110 Traders Cross Bluffton, South Carolina 29909 843. 384. 4731 Jake@shearlockeng.com | Dalon Engineering 2611 Southside Boulevard Beaufort, SC 29902 843-271-6011 Cddalon@dalonengineering.com |

DESIGN CRITERIA RESTROOM/ PAVILION

SCOPE OF WORK:
A NEW OPEN AIR PAVILION WITH MENS AND WOMENS BATH AND STORAGE ON THE SIDE OF THE STRUCTURE.

DESCRIPTON:
A NEW SLAB ON GRADE PAVILION WITH HEAVY TIMBER COLUMNS & CMU WALLS W/ CEMENT BOARD FINISHES. THE ROOF SITS ON FIELD BUILT WOOD TRUSSES WITH STAINING METAL ROOF. THE BATHROOM STRUCTURES WILL BE DRY FLOOD PROOFED TO 13'-0" MSL.

Design Criteria for Code Compliance as of: 2021 IBC

| | | |
|---------------------------------------|------------------------|-------------------|
| Type of Construction: 5 | | |
| Sprinkler: NO | -Protected/Unprotected | |
| Occupancy: Utility | | |
| ALLOWABLE BUILDING AREAS (Table 503): | | |
| Building Floor Areas | Actual | Allowed |
| Utility (Open air pavilion) | 1,170 sqft | |
| Utility (bathroom) | 320 sqft | |
| Total | 1,490 sqft | 5,500 sqft |
| Allowable Areas Increase: | NOT NEEDED | |
| ALLOWABLE HEIGHTS (Table 503): | | |
| Building Height Above Grade: | Actual 20'-2" | Allowed 40'-0" |
| Building Height in Stories: | 1 | 1 |

INDEX OF DRAWINGS:

ARCHITECTURAL:
 A-0 CODE PLAN
 A-1 FLOOR PLANS
 A-2 ELEVATIONS
 A-3 BLOWUP BATHROOM PLANS & BUILDING SECTION
 A-4 WALL SECTIONS
 A-5 WALL SECTIONS

STRUCTURAL:
 S100 STRUCTURAL NOTES
 S200 FOUNDATION AND CEILING FRAMING PLANS
 S201 ROOF FRAMING PLANS
 S300 STRUCTURAL DETAILS
 S400 STRUCTURAL DETAILS
 S401 STRUCTURAL DETAILS

MECHANICAL:
 M.01 NOTES, LEGENDS, AND SYMBOLS
 M1 HVAC PLAN
 M2 DETAILS

ELECTRICAL:
 E001 ELECTRICAL LEGENDS
 E100 PAVILION PLAN
 E301 ELECTRICAL SCHEDULES AND DETAILS

PLUMBING:
 P.01 NOTES, LEGENDS, AND SYMBOLS
 P1.1 DMV FLOOR PLAN
 P1.2 DW FLOOR PLAN

COVERSHEET

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| 2 | | X | | |

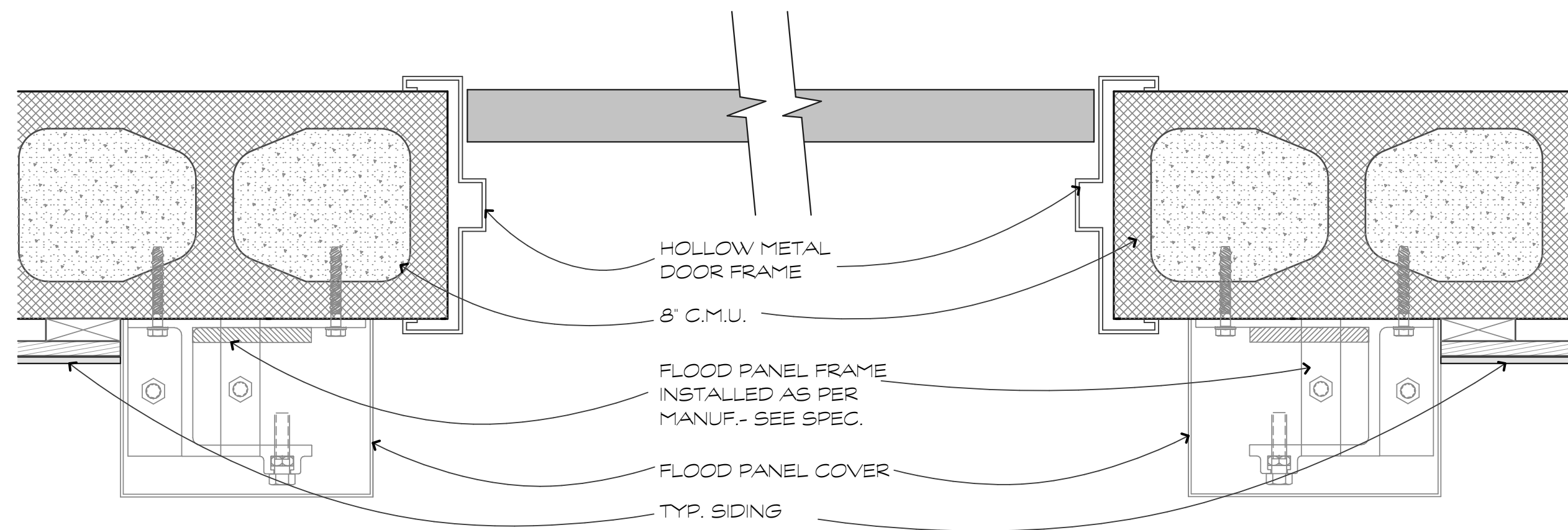
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| 3 | | TCP | |
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| 5 | | TCP | |

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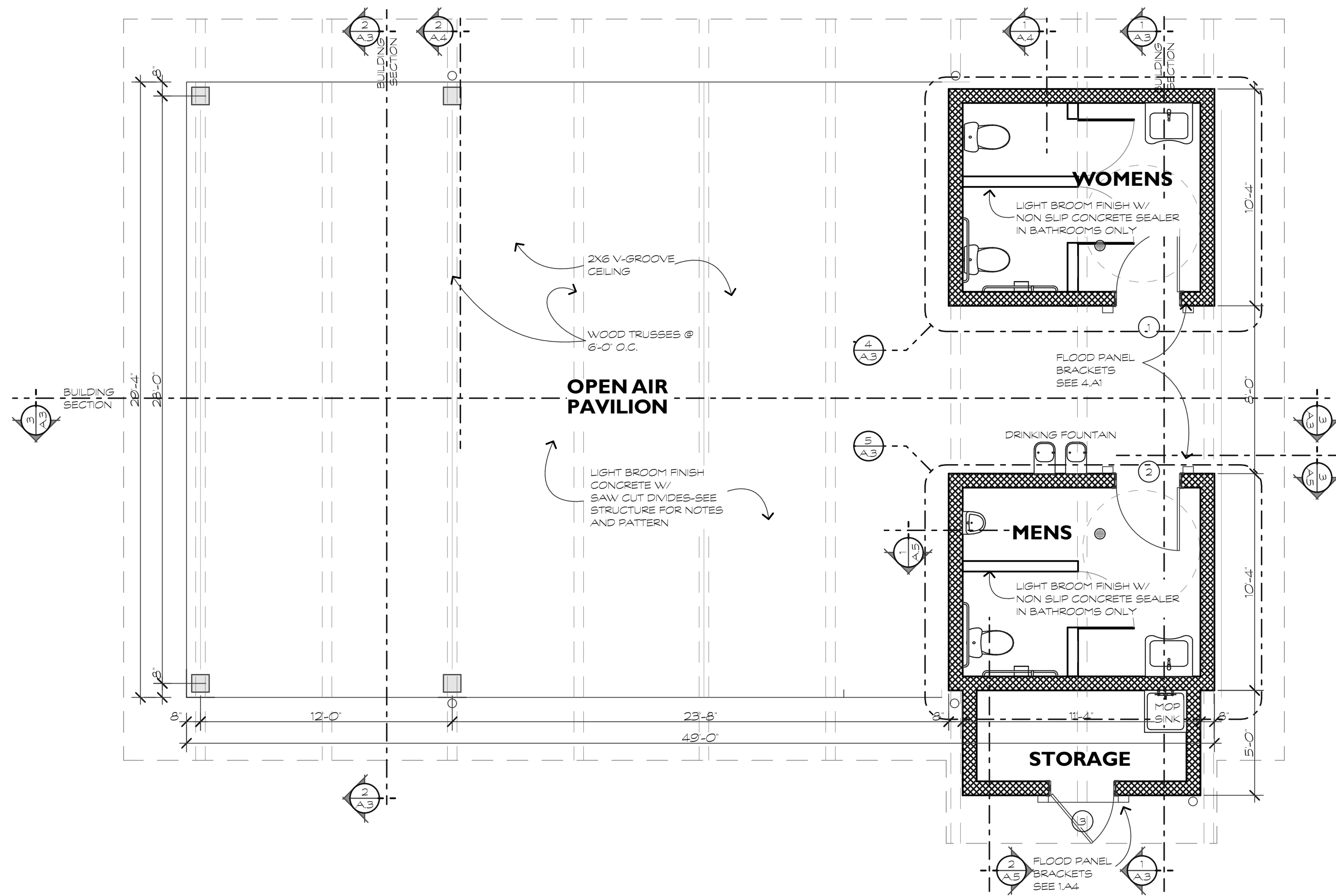
A-0

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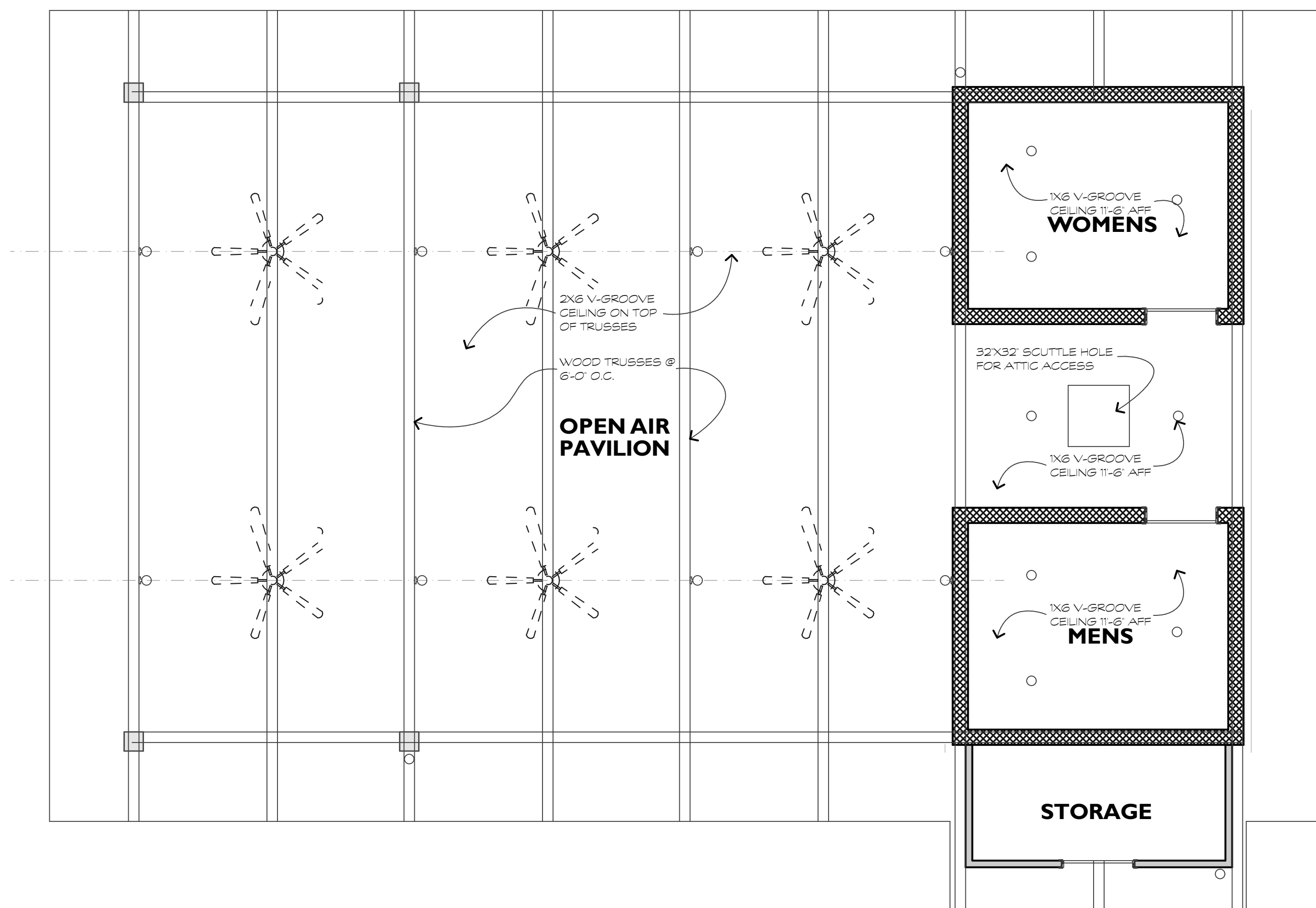
| DOOR SCHEDULE | | | |
|---------------|-------------------|---------------|------------------|
| MARK | TYPE | SIZE | REMARKS |
| FIRST FLOOR | | | |
| 1 | METAL FLUSH PANEL | 3'-0" X 7'-0" | CLOSER-SEE SPECS |
| 2 | METAL FLUSH PANEL | 3'-0" X 7'-0" | CLOSER-SEE SPECS |
| 3 | METAL FLUSH PANEL | 3'-0" X 7'-0" | CLOSER-SEE SPECS |



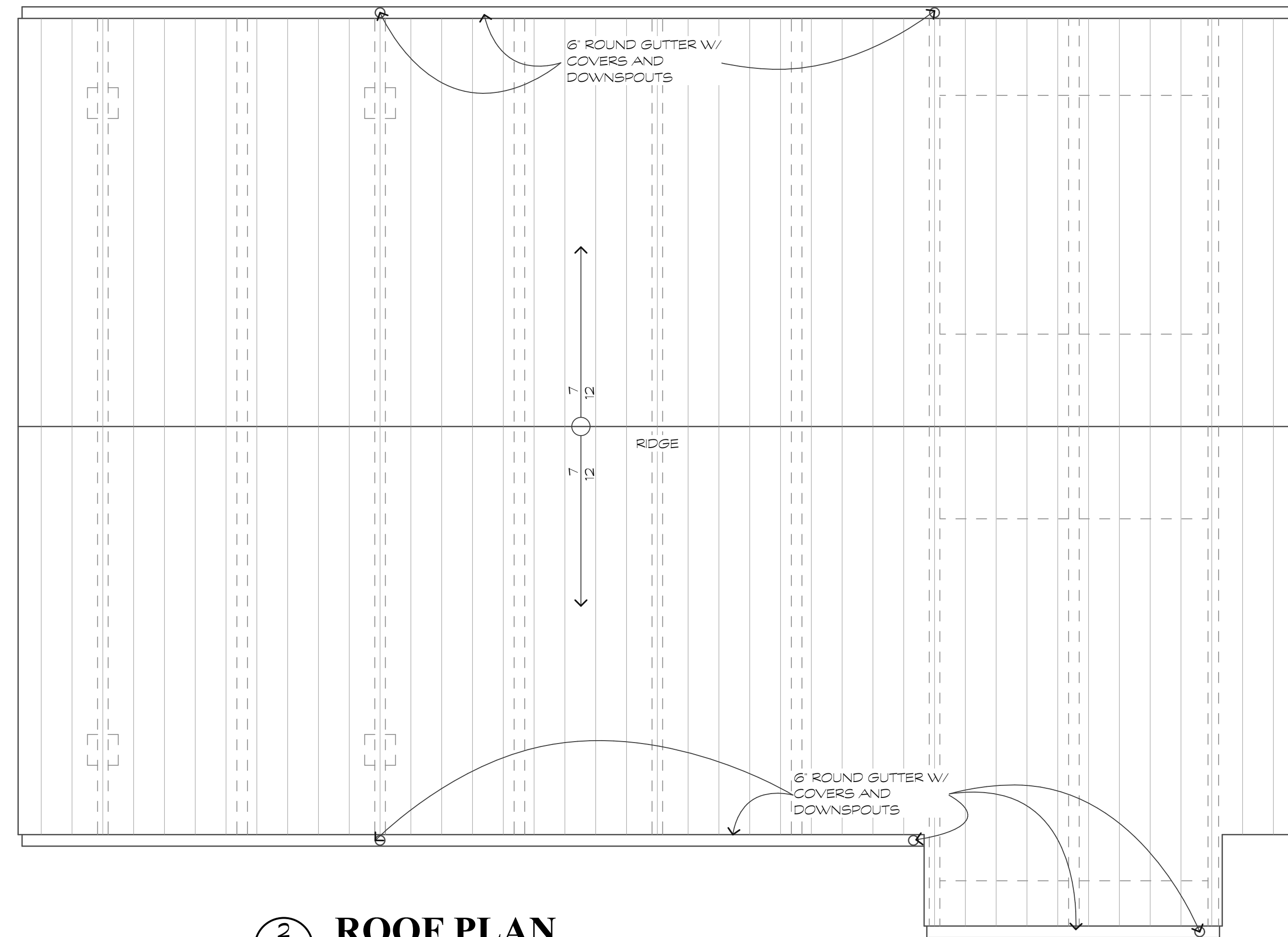
4 FLOOD GATE DETAIL
SCALE: 3" = 1'-0"



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



3 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



2 ROOF PLAN
SCALE: 1/4" = 1'-0"

STATE OF SOUTH CAROLINA
TIMOTHY C. PROBST
Hilton Head Island, SC
No. 8881
REGISTERED ARCHITECT
ISSUED FOR BID
NOT FOR CONSTRUCTION

STATE OF SOUTH CAROLINA
PARKER DESIGN GROUP ARCHITECTS
Hilton Head, SC
101188
REGISTERED ARCHITECTS
parkerdesigngrouparchitects
401 751 7100 | 1001 Ocean Boulevard, Suite 202

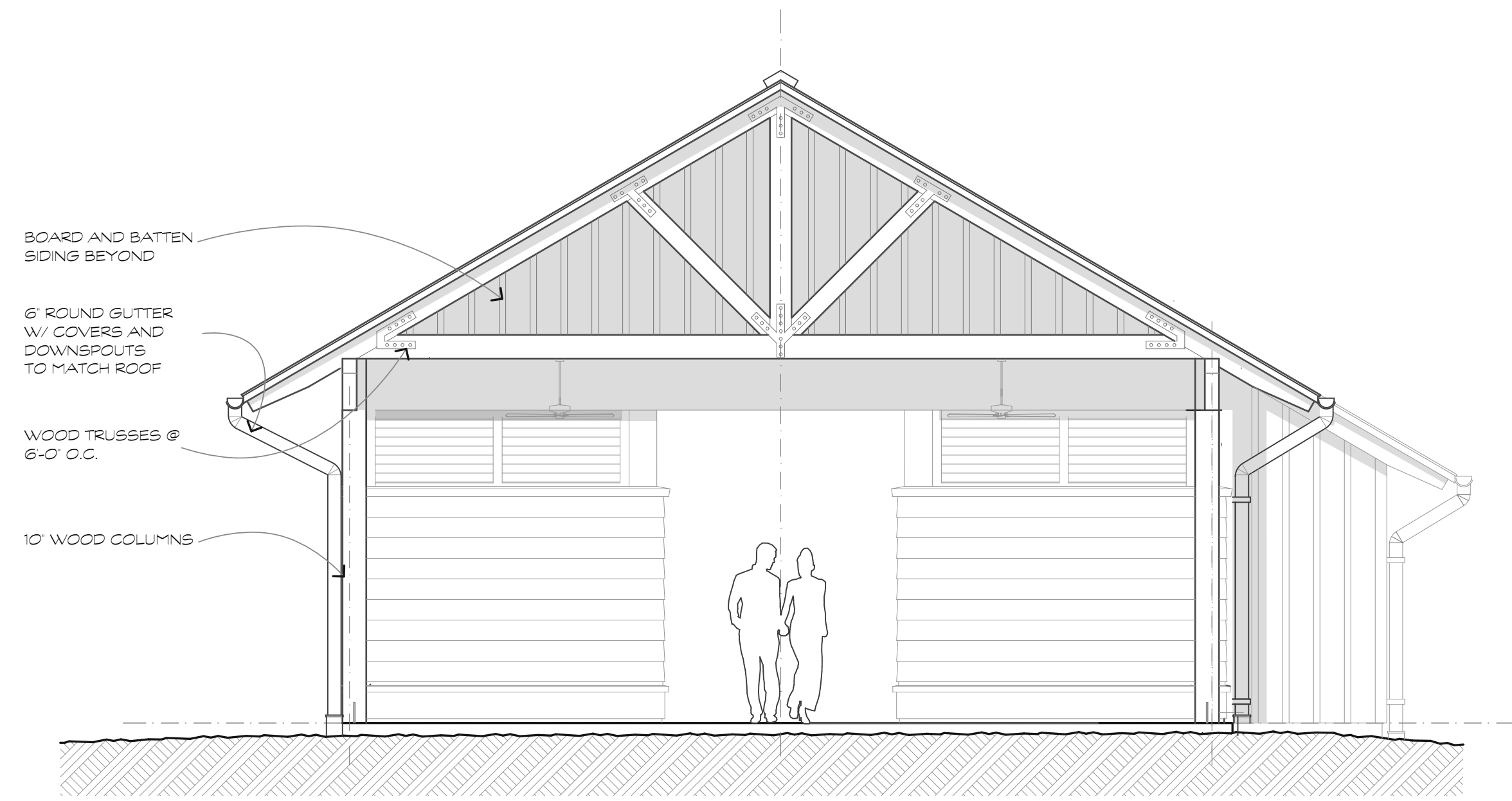
CITY OF BEAUFORT
BEAUFORT, SC 29902
PROJECT TITLE
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

OWNER
DRAWING TITLE
FLOOR PLANS

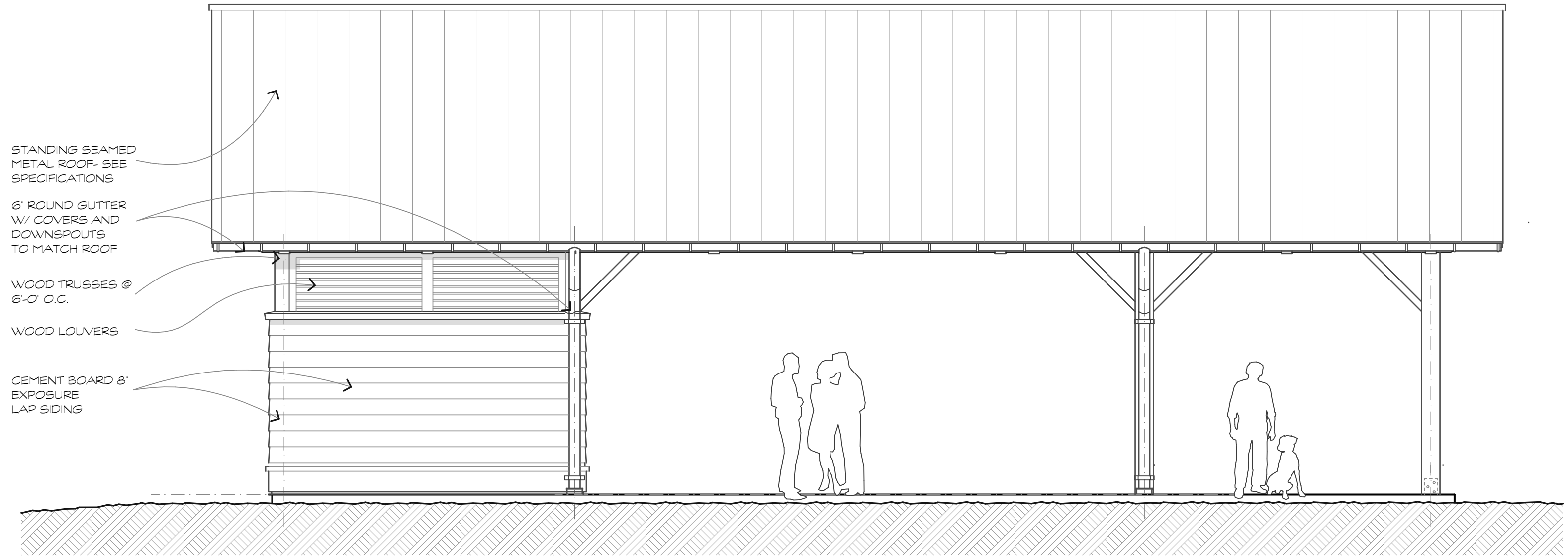
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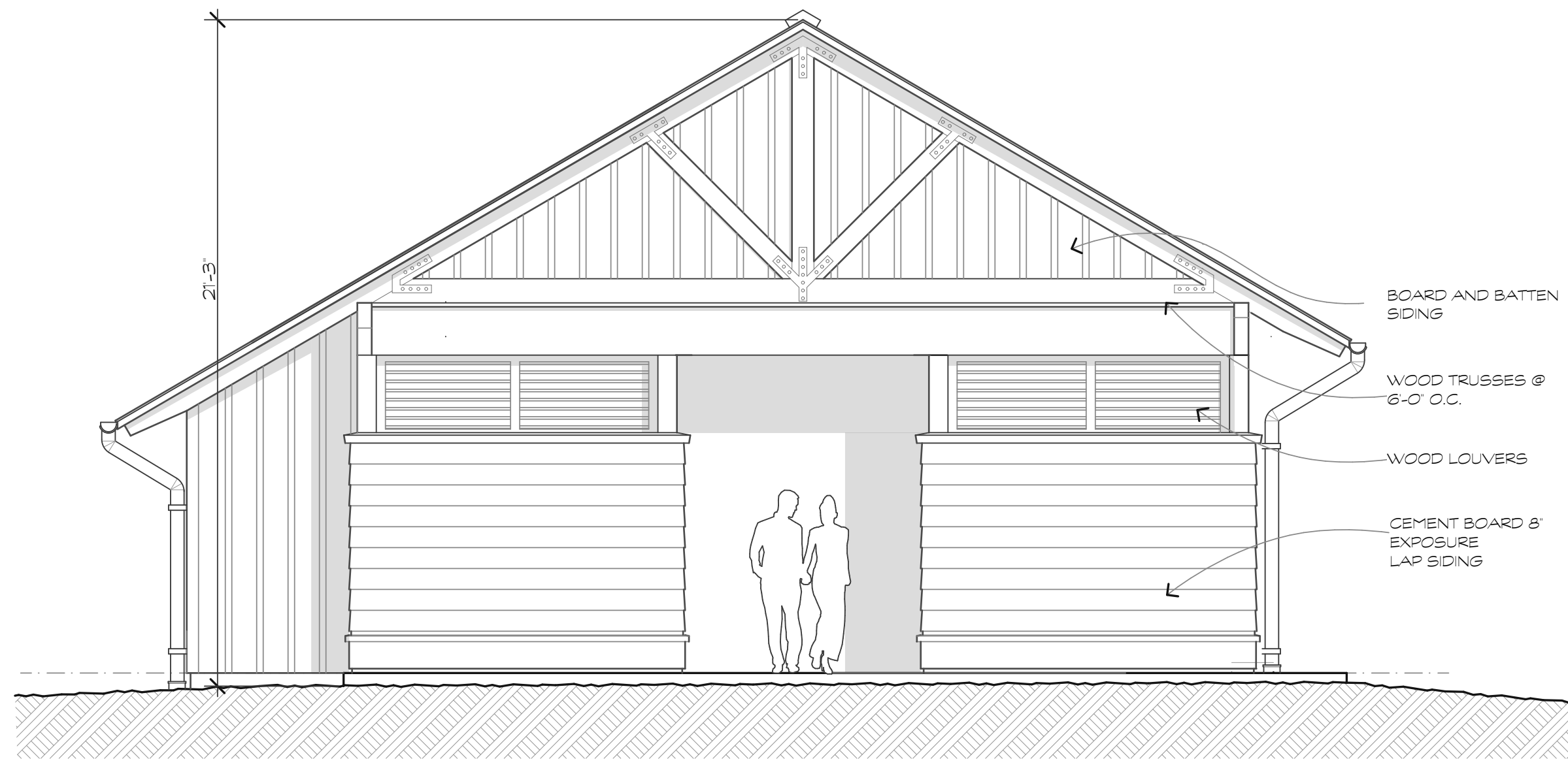
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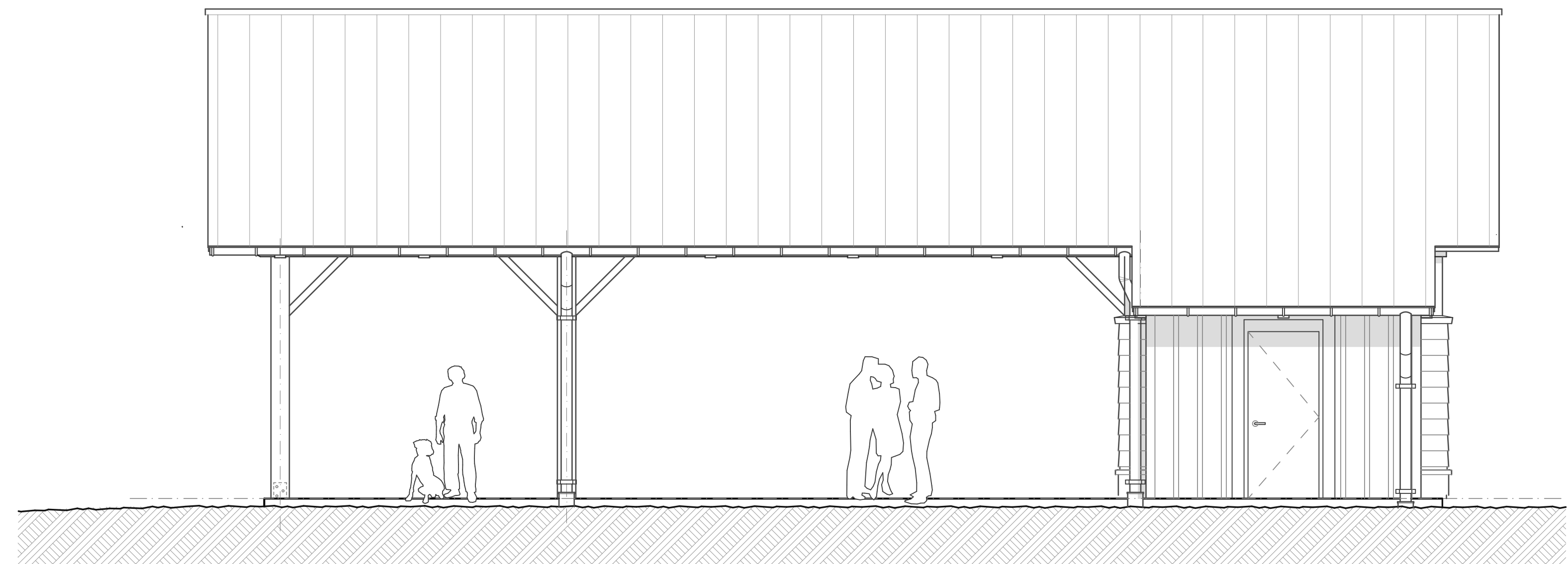
4 PARK SIDE ELEVATION
SCALE: 1/4" = 1'-0"



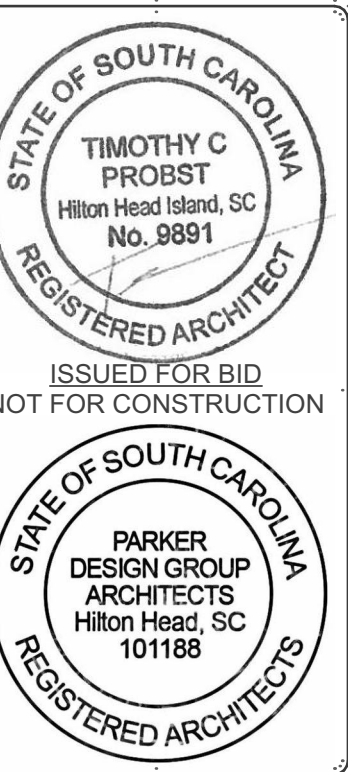
1 LEFT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



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



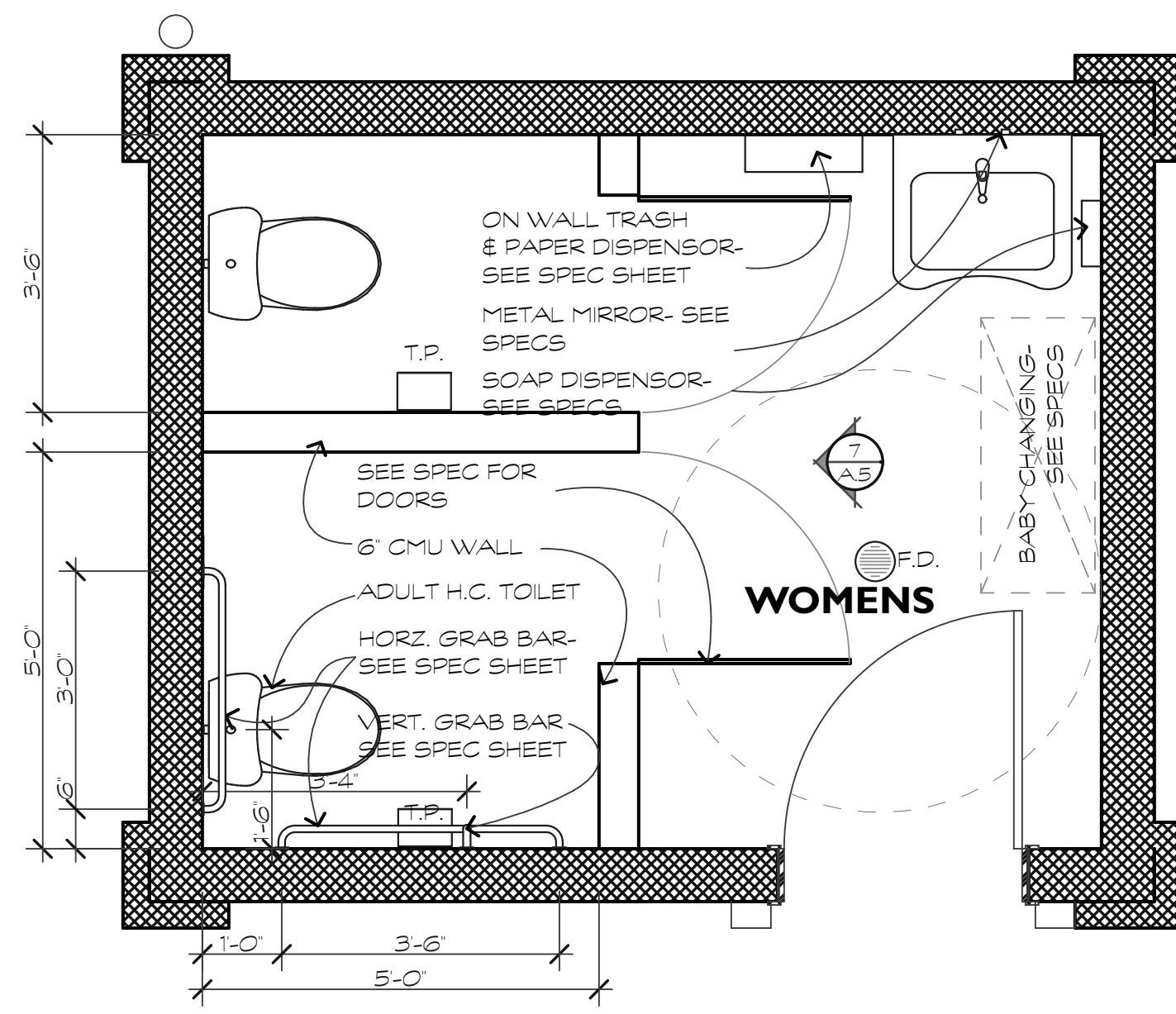
2 RIGHT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



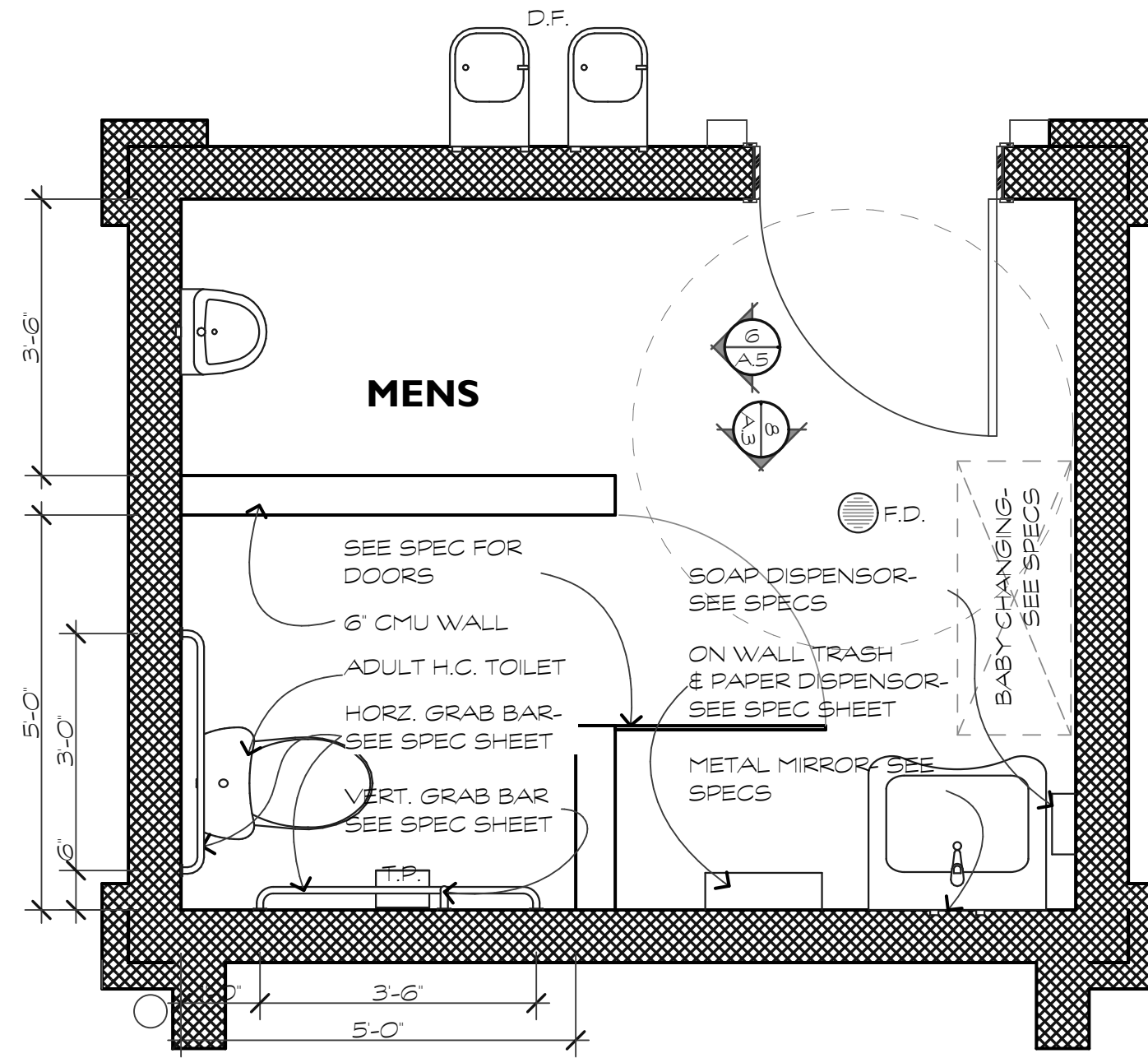
CITY OF BEAUFORT
BEAUFORT, SC 29902
PROJECT TITLE
**SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS**

ELEVATIONS

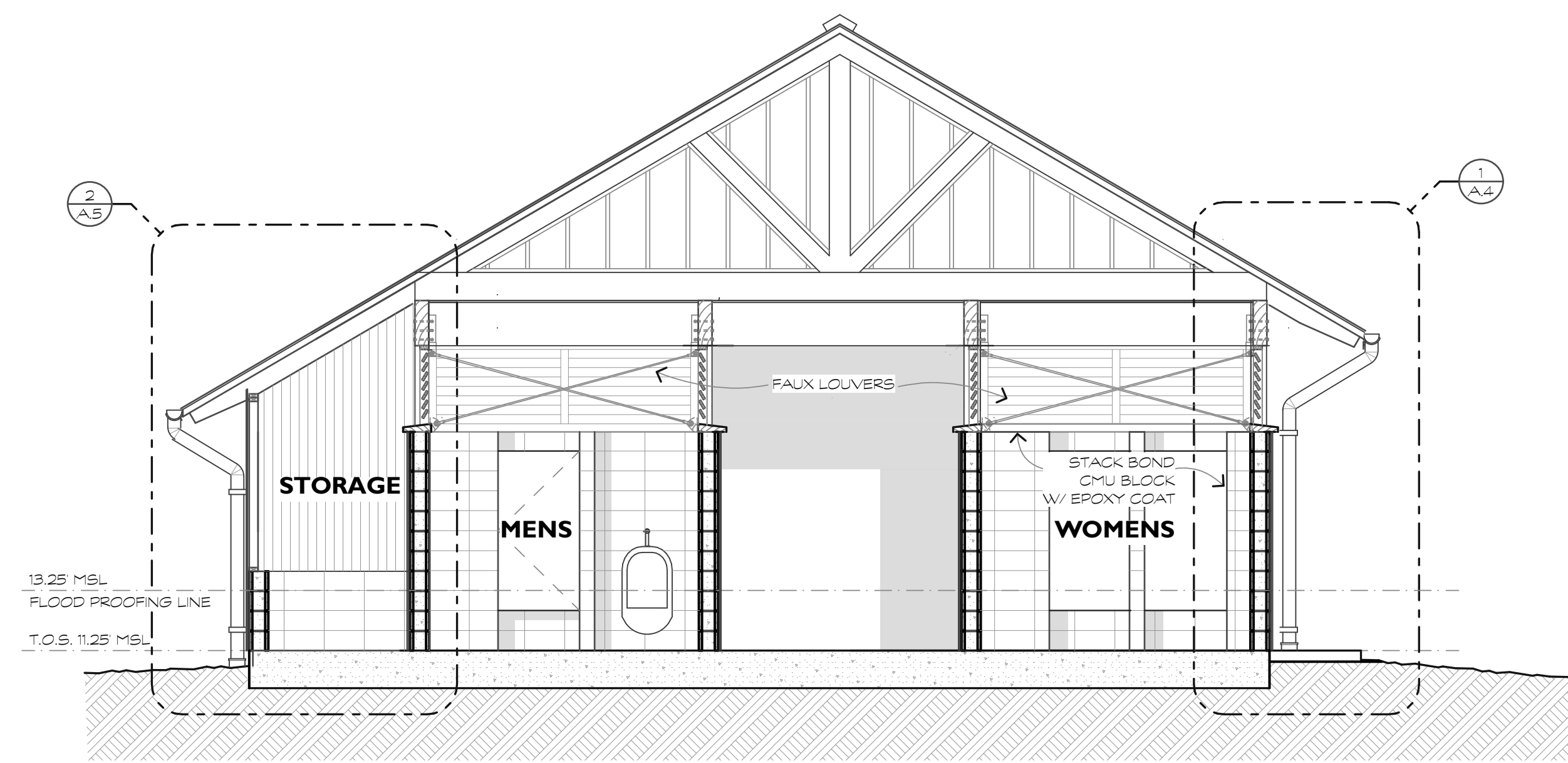
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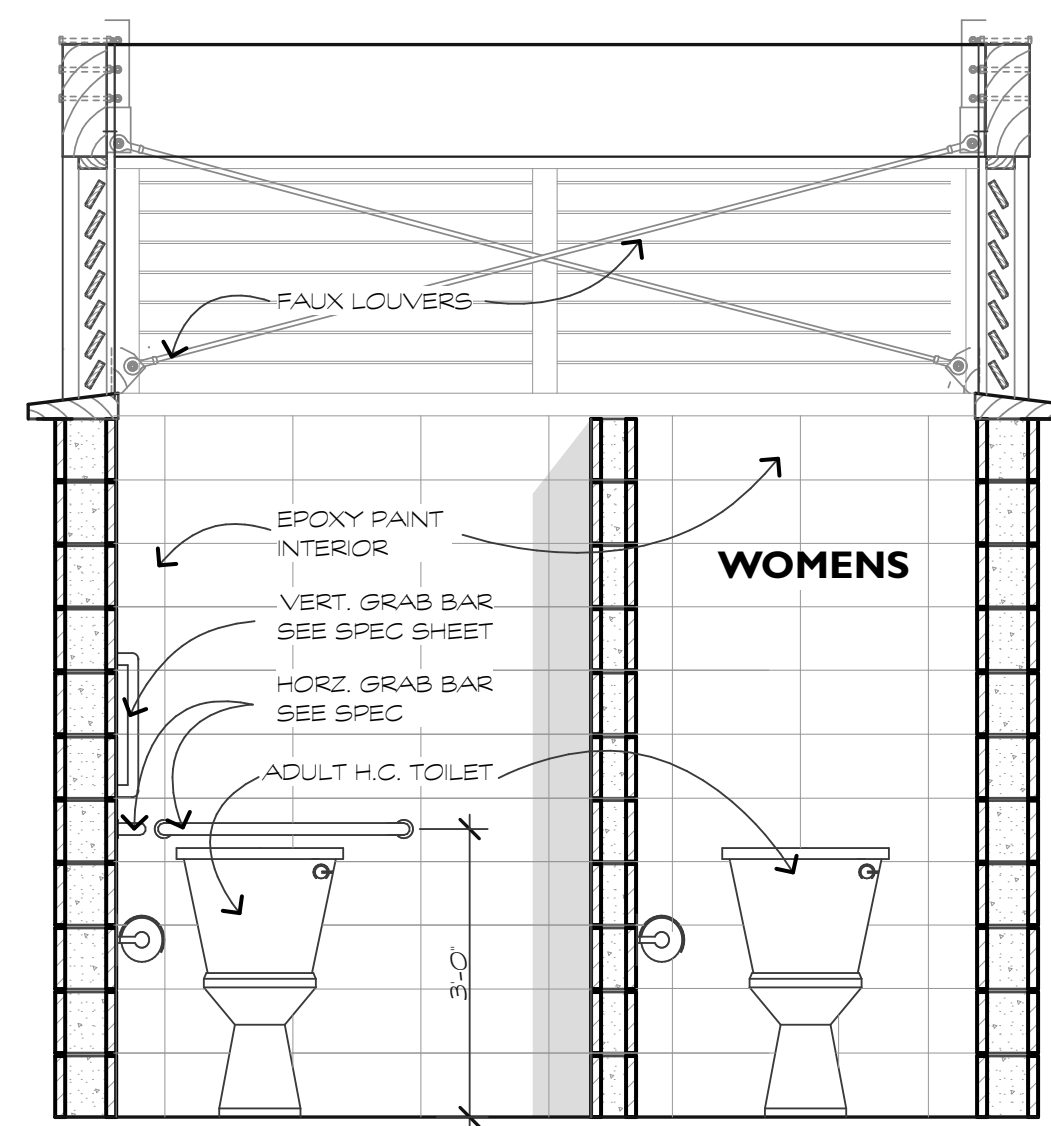
4 WOMEN'S BATH PLAN
SCALE: 1/2" = 1'-0"



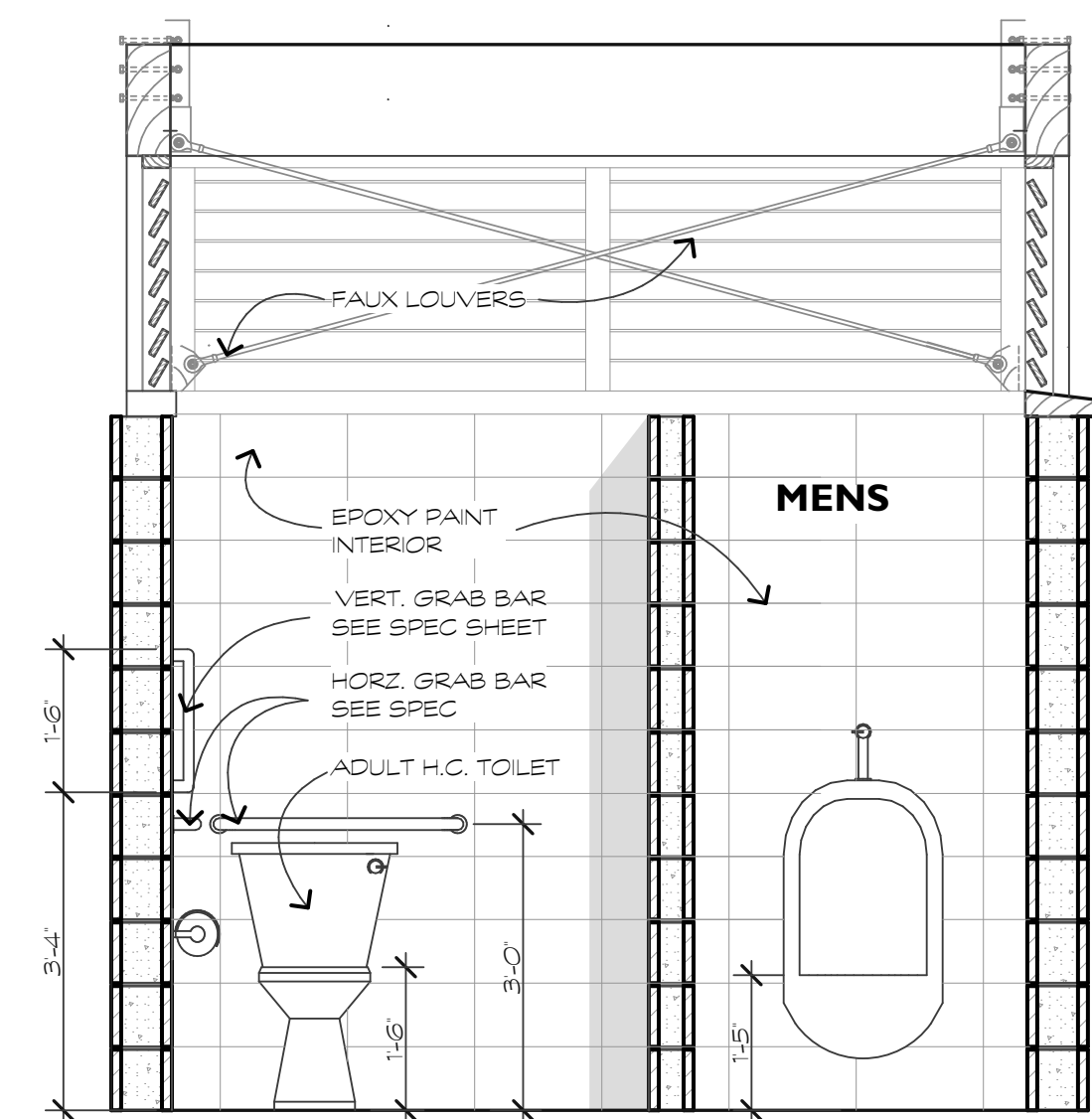
5 MENS BATH PLAN
SCALE: 1/2" = 1'-0"



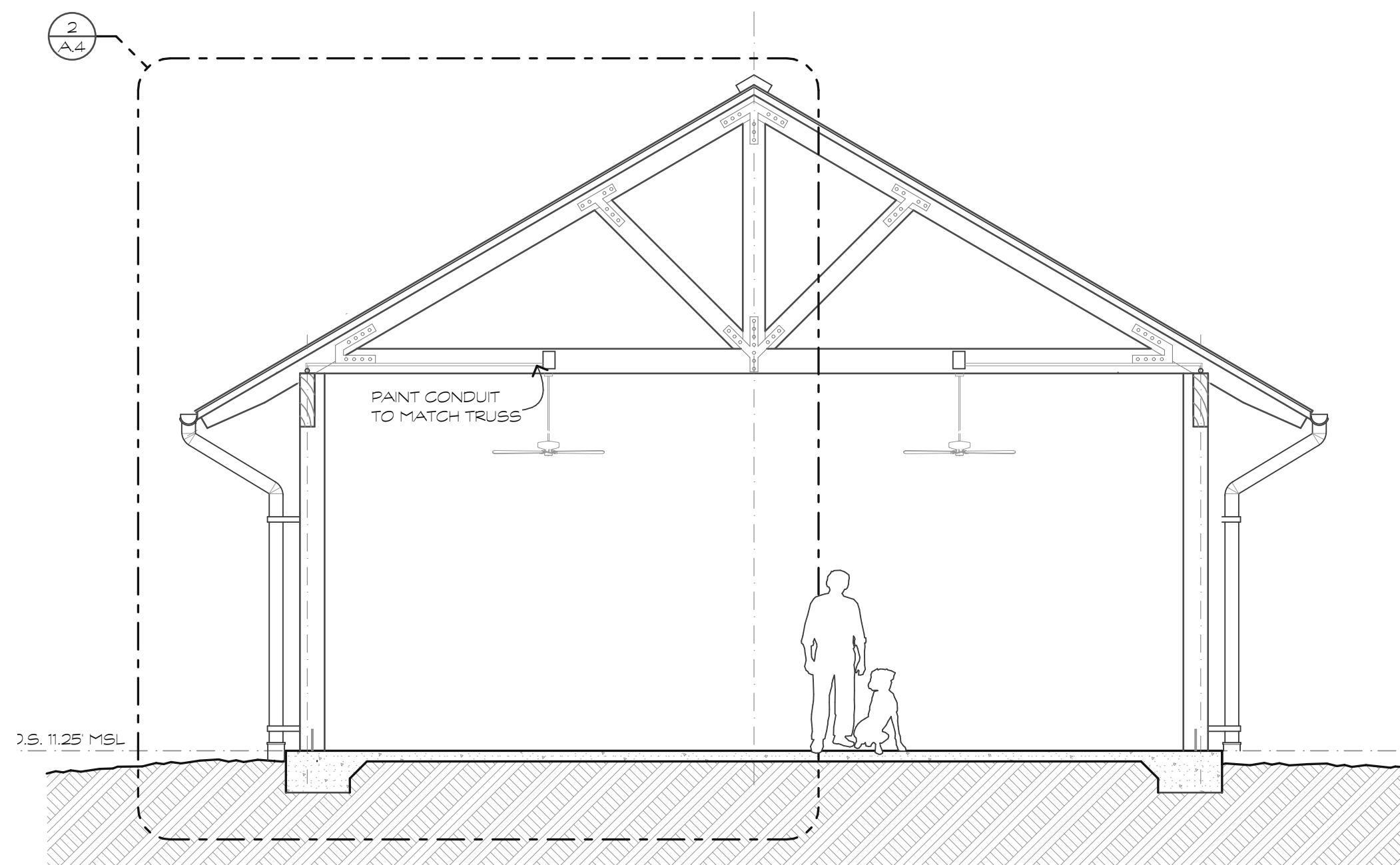
1 BUILDING SECTION
SCALE: 1/4" = 1'-0"



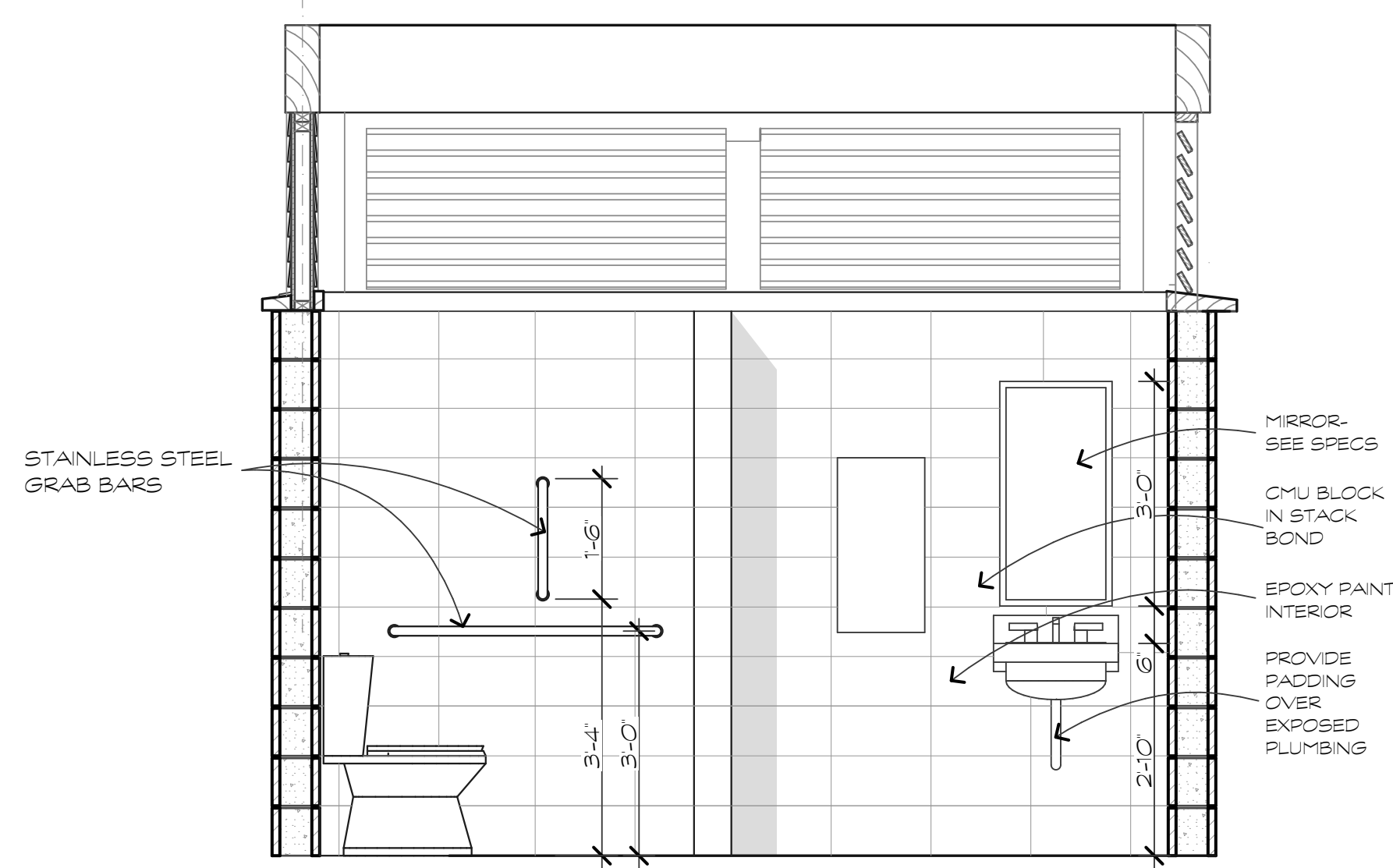
7 WOMENS BATH ELEV.
SCALE: 1/2" = 1'-0"



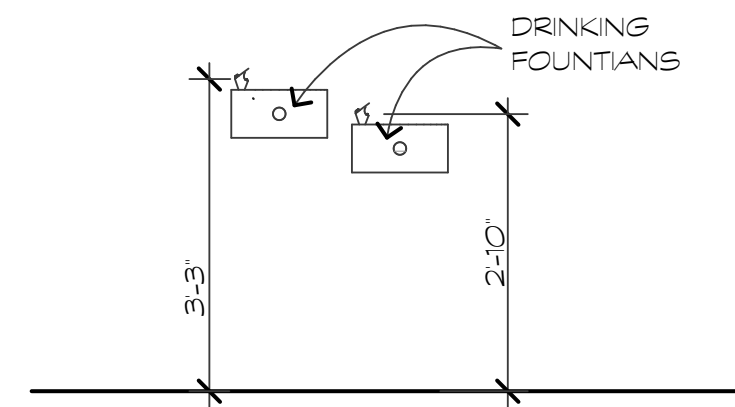
6 MENS BATH ELEV.
SCALE: 1/2" = 1'-0"



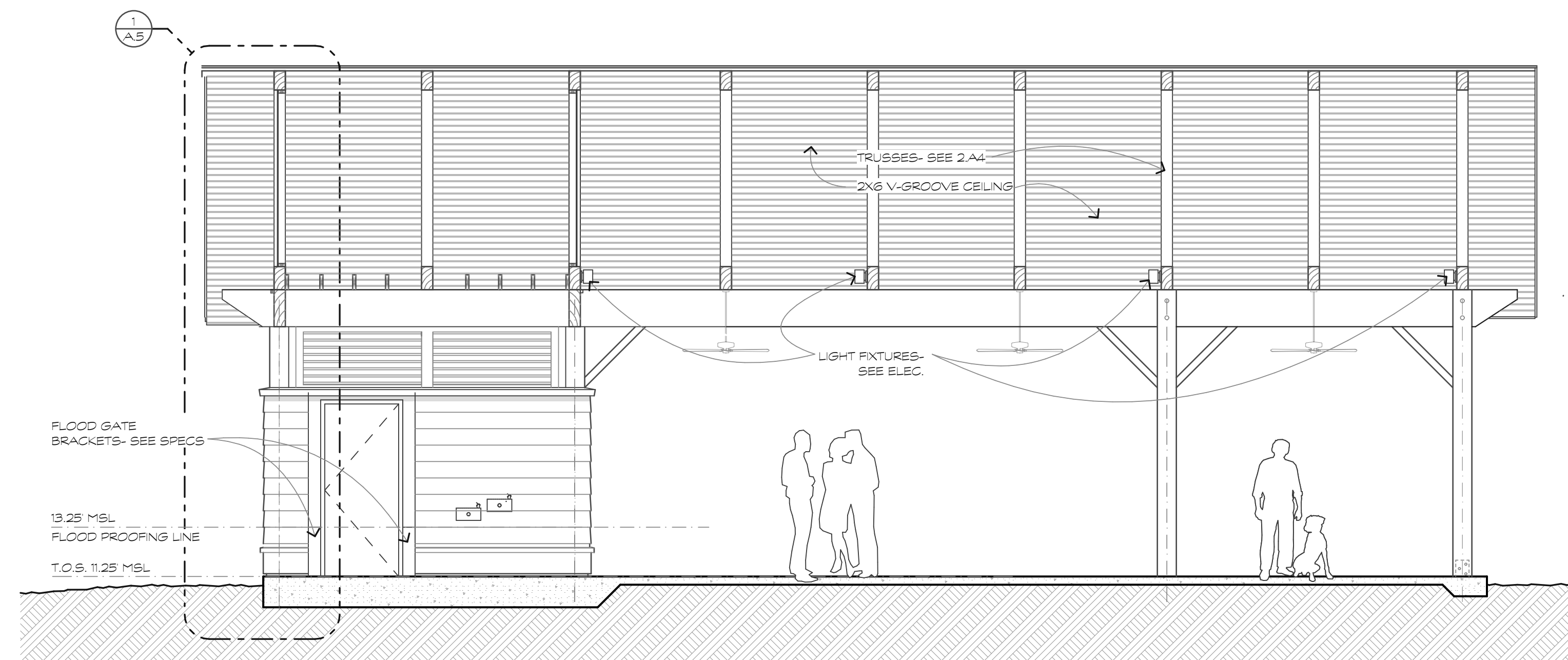
2 BUILDING SECTION
SCALE: 1/4" = 1'-0"



8 BATHROOM ELEV.
SCALE: 1/2" = 1'-0"



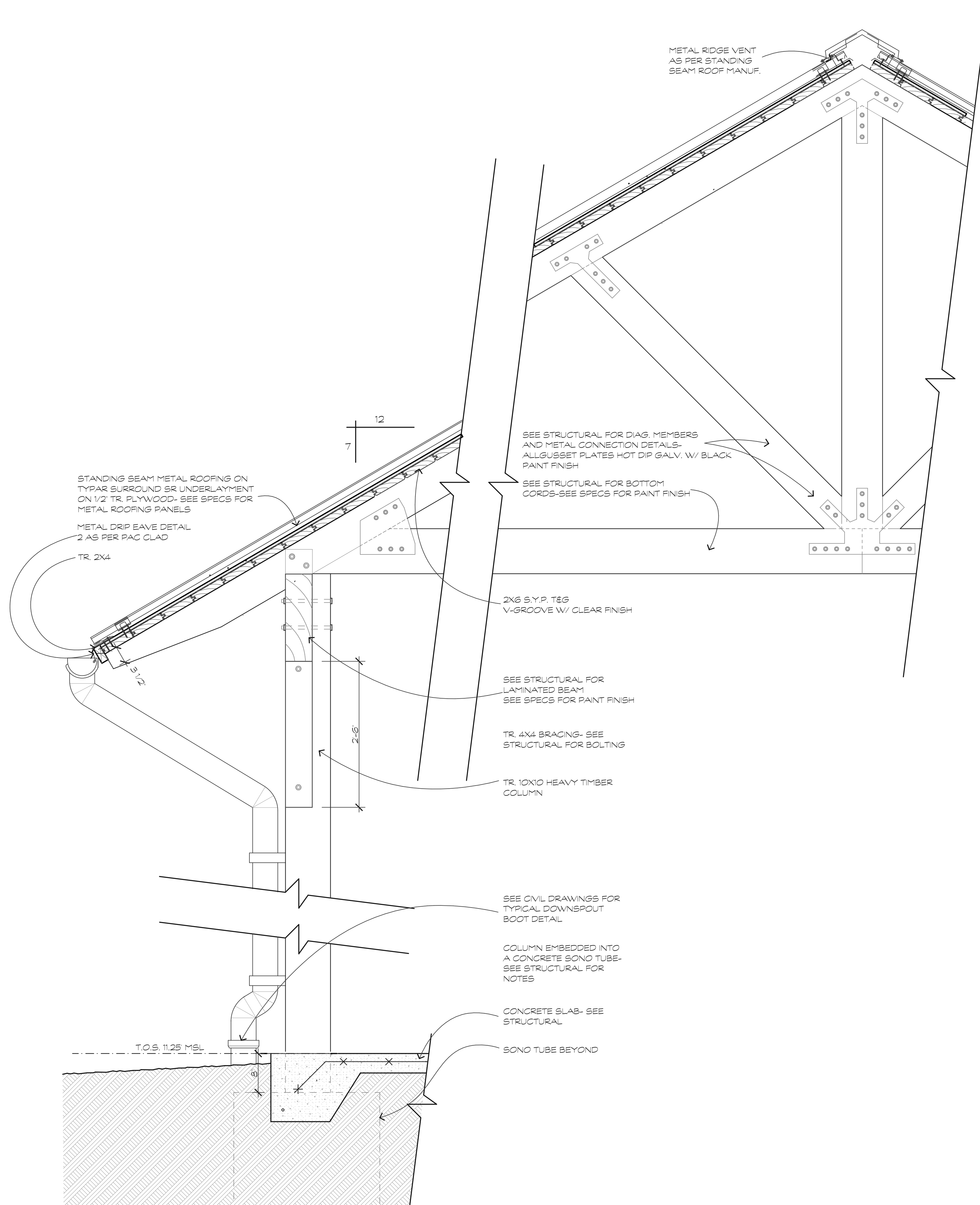
9 D.F. ELEV.
SCALE: 1/2" = 1'-0"



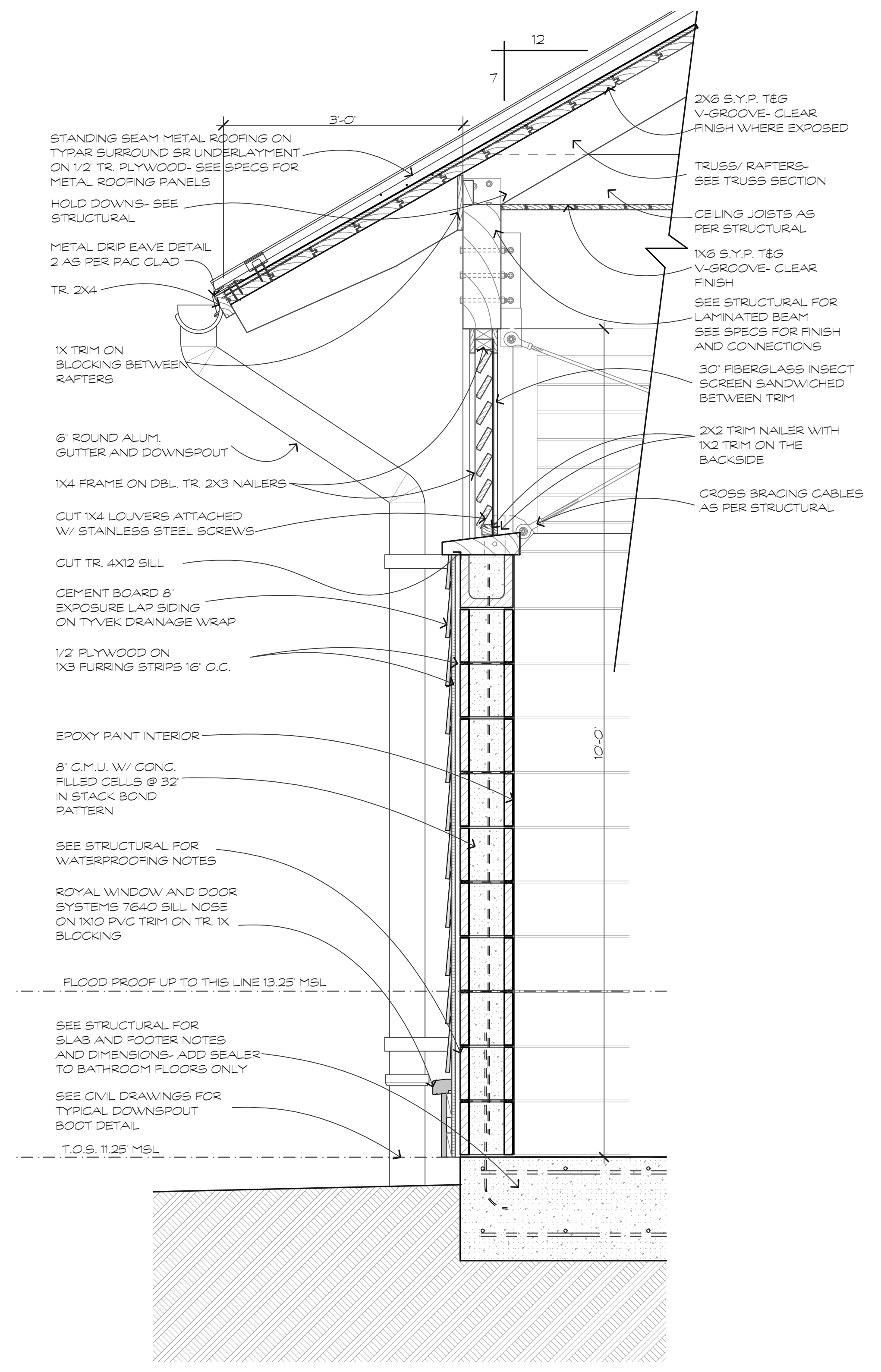
3 BUILDING SECTION
SCALE: 1/4" = 1'-0"

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| 3 | 10/16/2023 | ISSUE FOR CONSTRUCTION | X | X |

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| 3 | 10/16/2023 | ISSUE FOR CONSTRUCTION | X | X |



2 PAVILION SECTION
 SCALE: 1" = 1'-0"



1 BATHROOM SECTION
 SCALE: 1" = 1'-0"

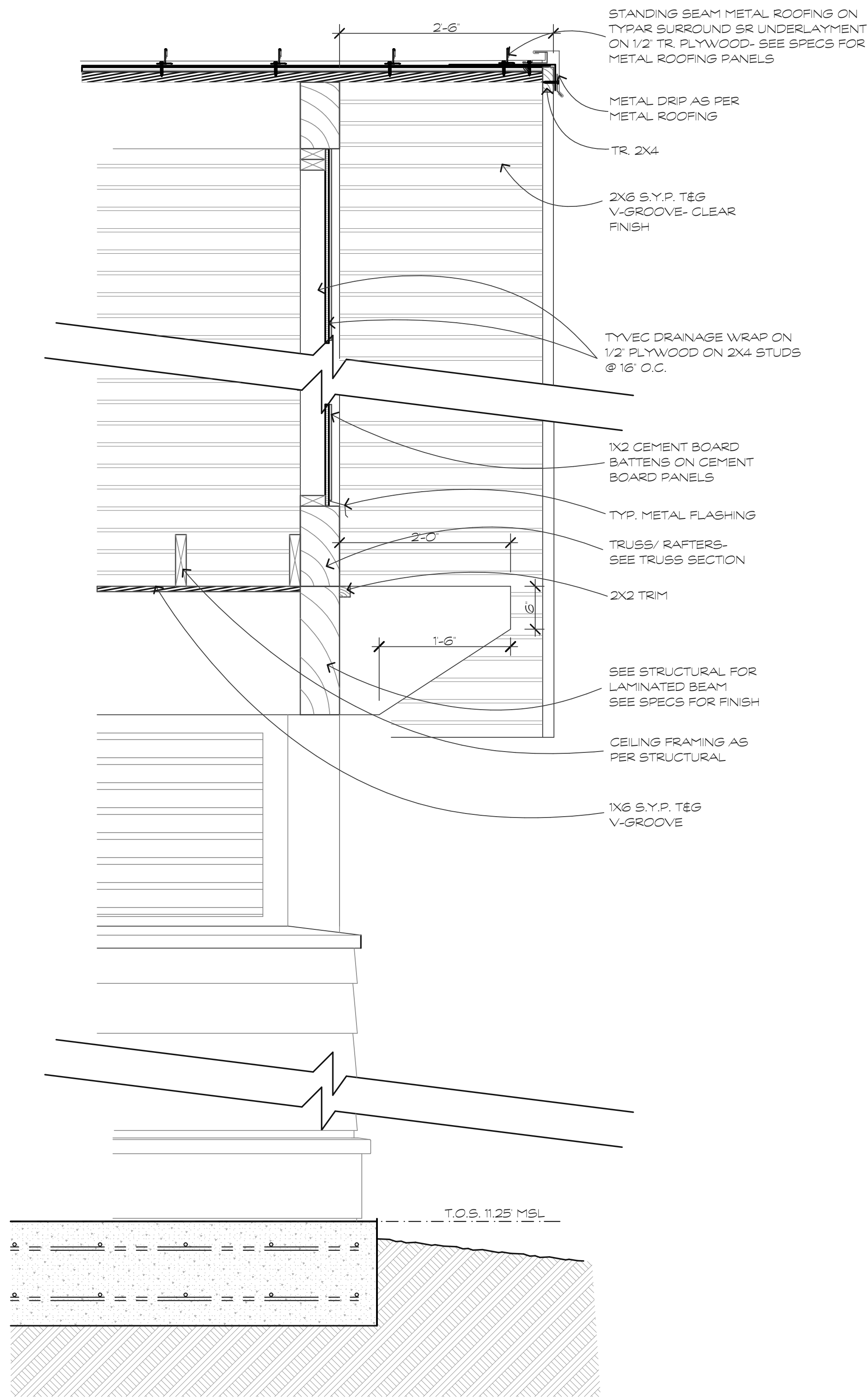
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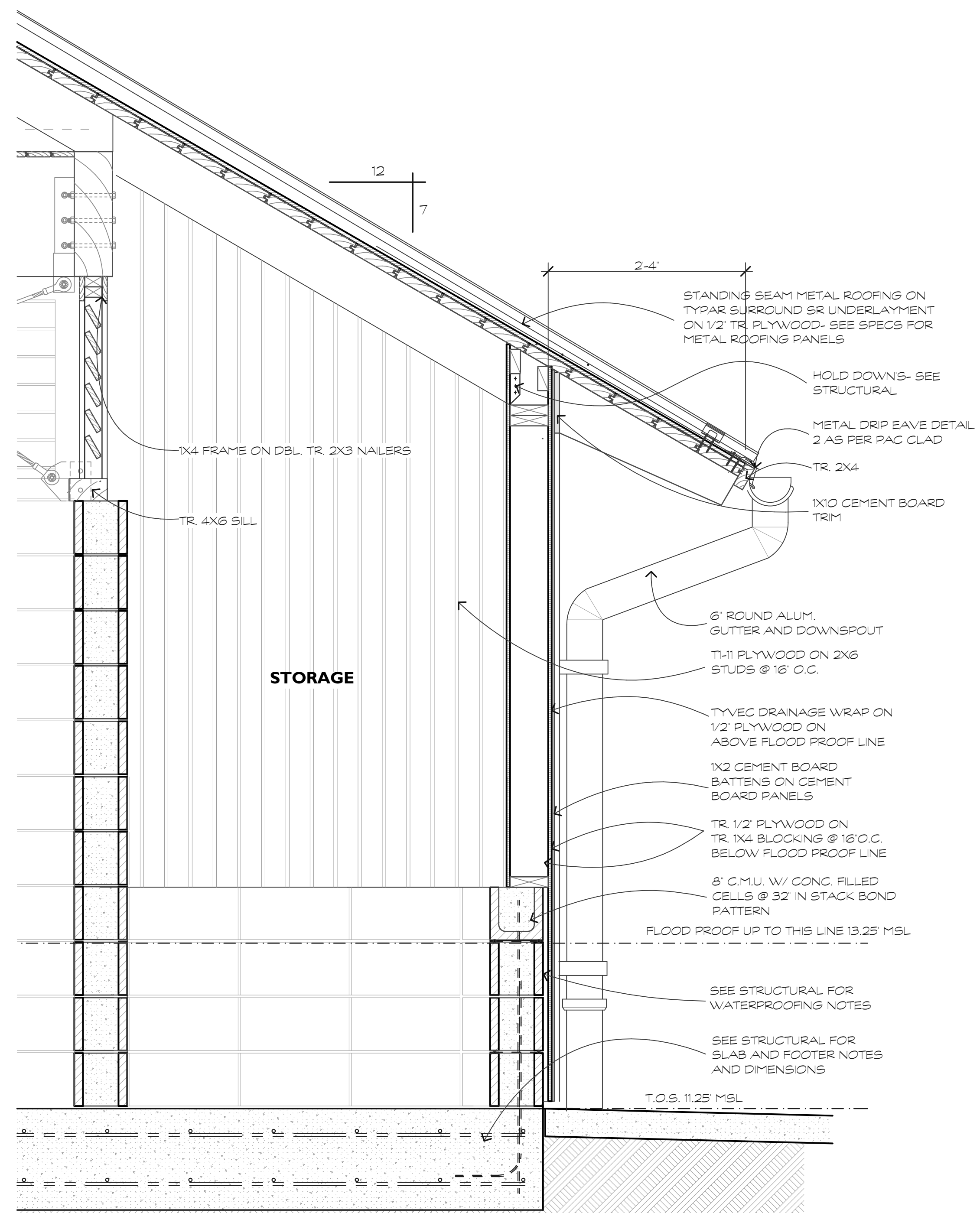
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A-4
 PAGE 5 OF 21

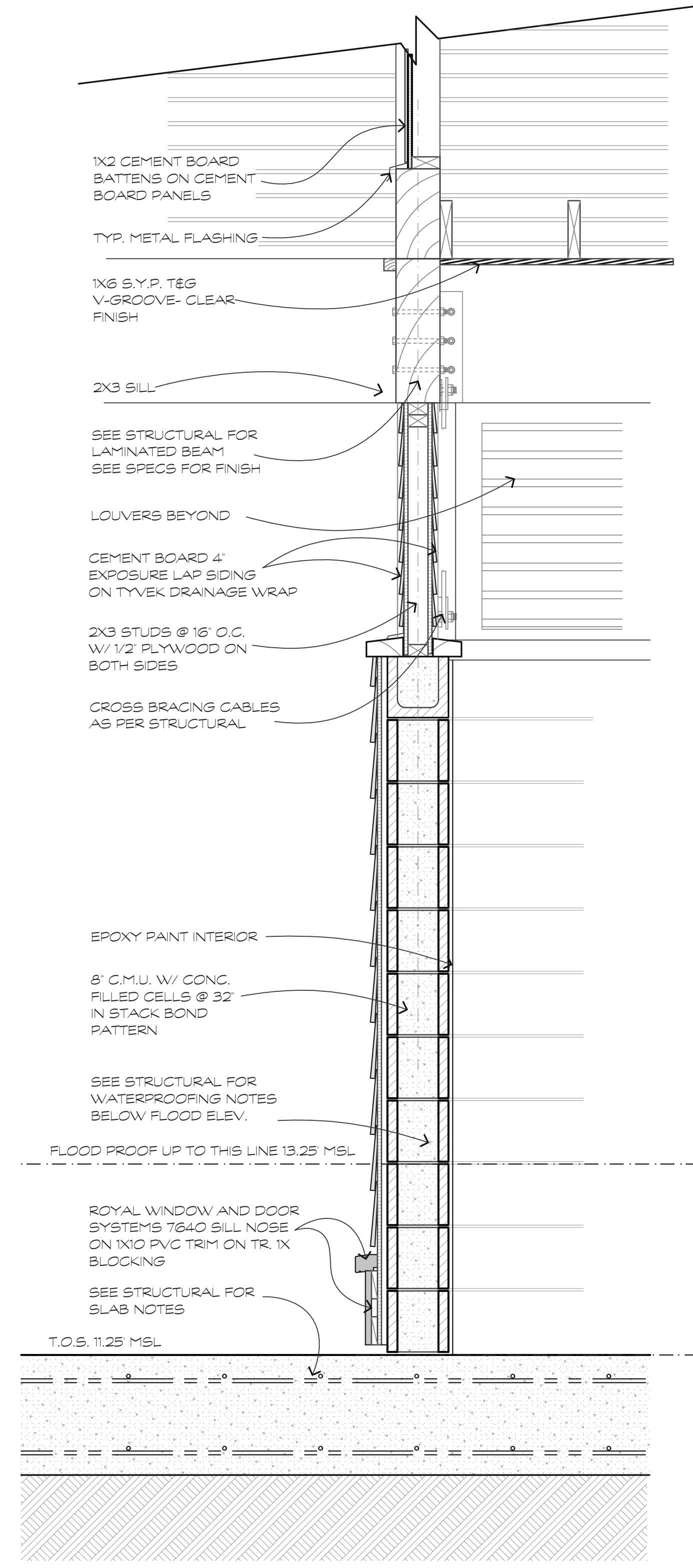
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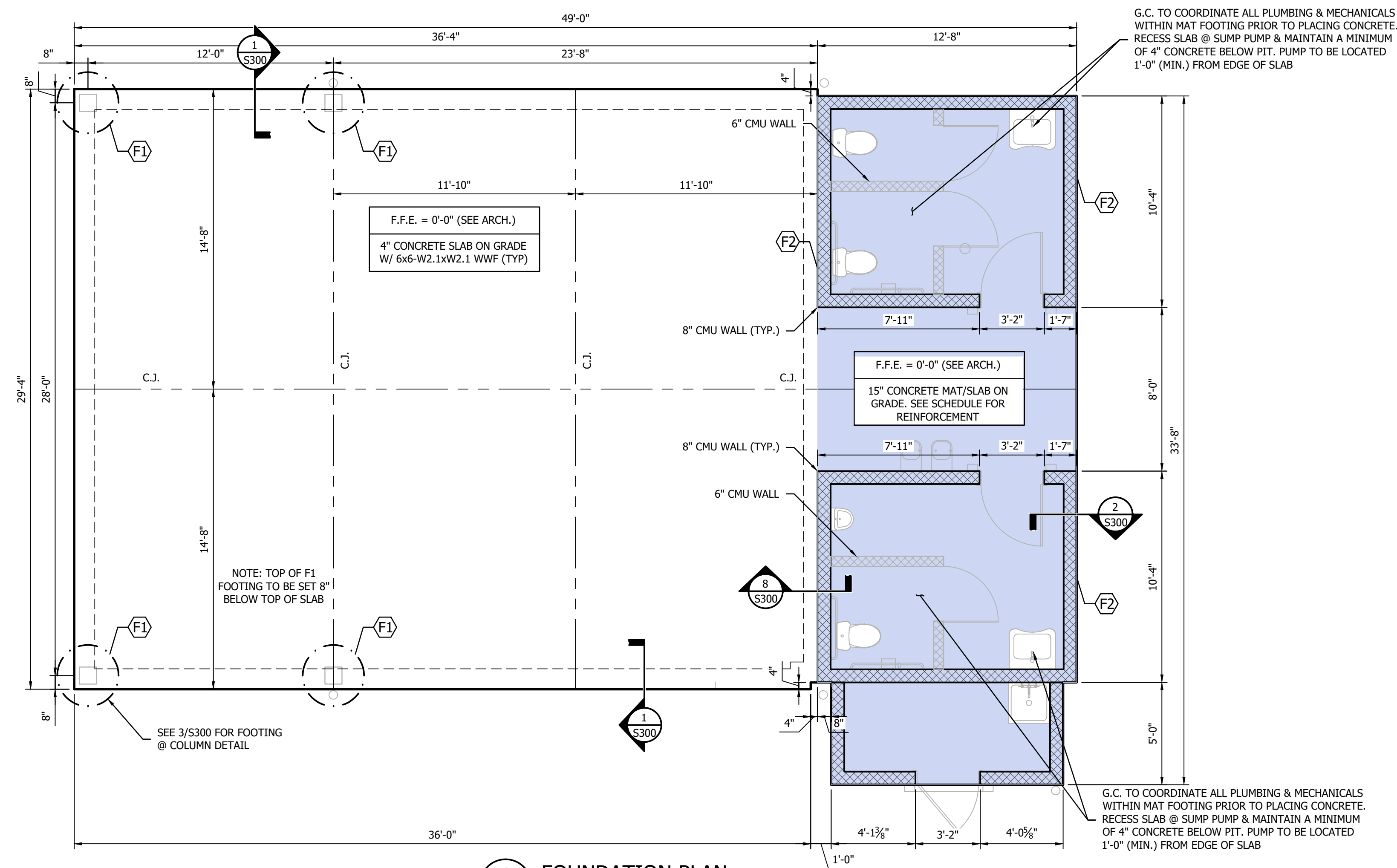
3 ENTRY SECTION
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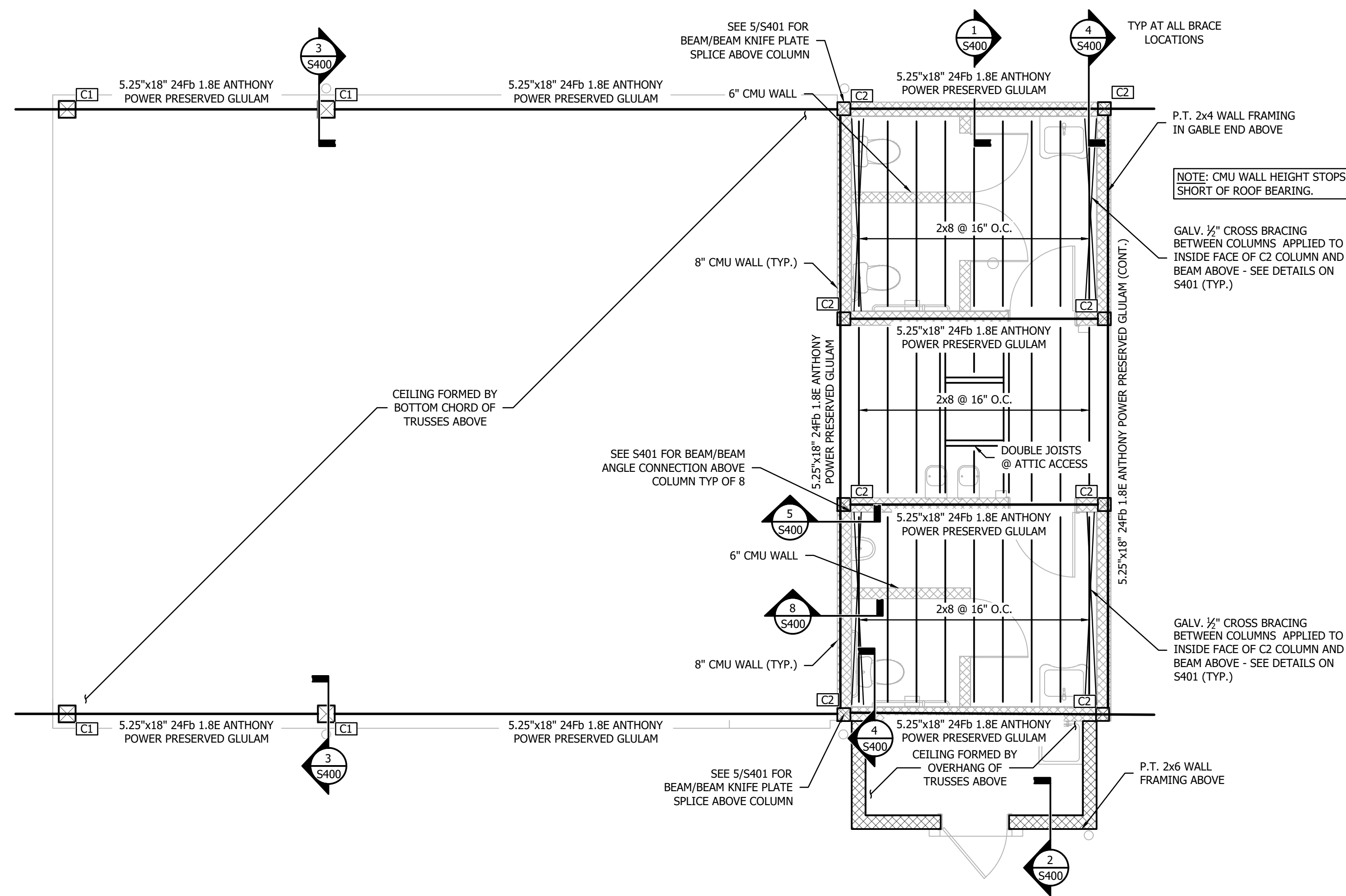
2 WALL SECTION
 SCALE: 1" = 1'-0"



1 WALL SECTION
 SCALE: 1" = 1'-0"



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



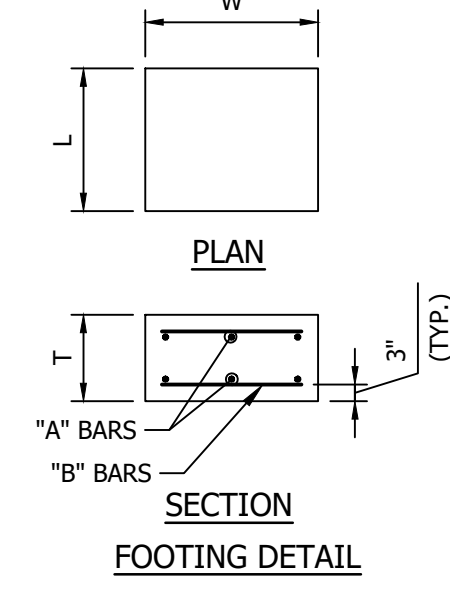
2 CEILING FRAMING PLAN
SCALE: 1/4" = 1'-0"

GENERAL LEGEND

- CMU WALL
- NON-LOAD BEARING CMU WALL
- THICKENED SLAB
- TURNDOWN SLAB
- CONTROL JOINT (C.J.)
- COLUMN MARK - SEE COLUMN SCHEDULE

FOOTING SCHEDULE

| MARK | W | L | T | 'A' BARS | 'B' BARS |
|------|---------------------|-------|---|-------------------------------------|--------------------------|
| F1 | 2'-6" Ø | 6'-0" | | SEE DETAIL 3/S300 FOR REINFORCEMENT | |
| F2 | SEE PLAN DIMENSIONS | 1'-3" | | #5 @ 12" O.C. TOP & BOT. | #5 @ 12" O.C. TOP & BOT. |



COLUMN SCHEDULE

| MARK | COLUMN TYPE |
|------|-------------|
| C1 | P.T. 10x10 |
| C2 | P.T. 8x8 |

FOUNDATION NOTES:

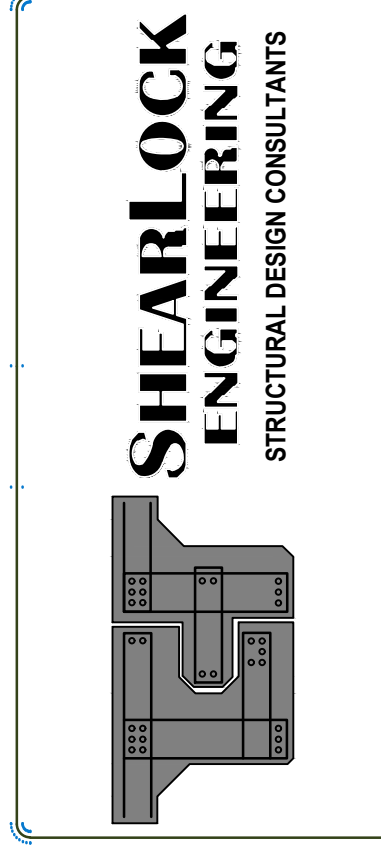
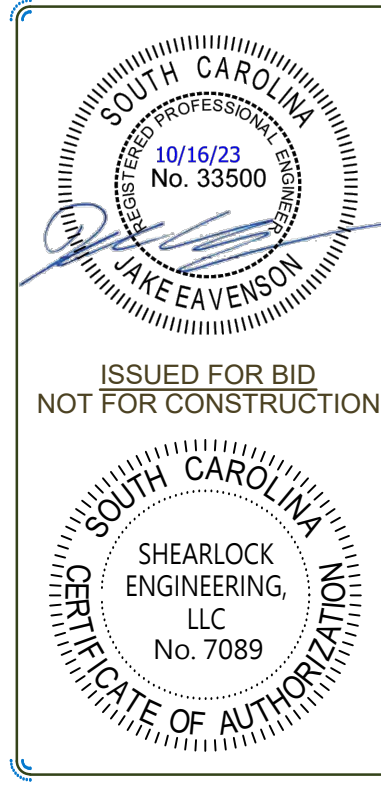
- CONTRACTOR SHALL COORDINATE ALL FLOOR DRAIN SIZES AND LOCATIONS WITH ARCHITECTURAL PLANS.
- AT FLOOR DRAINS, SLOPE FLOOR 1/2" FOR 2'-0" Ø AREA CENTERED ON DRAIN. (REF. PLUMBING DRAWINGS) TOP OF DRAIN COVER SHALL BE FLUSH WITH ADJACENT FLOOR FINISH MATERIAL. WHEN LOCATED IN CERAMIC TILE FLOOR, GROUT AREA BETWEEN CERAMIC TILE AND EDGE OF DRAIN. MAINTAIN SLAB THICKNESS AT ALL SLOPES AND DEPRESSIONS.
- ALL THICKENED SLABS SHALL BE CENTERED BELOW PROPOSED WALL ABOVE.

MASONRY WALL NOTES:

- ALL LOAD BEARING MASONRY WALLS SHALL BE 2000psi (MIN) 8x8x16" UNITS.
- ALL CELLS TO BE GROUTED SOLID TO 13'-0" AMSL AND @ REINFORCED CELLS W/ 3000psi CONCRETE.
- VERTICAL REINFORCEMENT SHALL BE #5 BARS @ 16" O.C.
- HORIZONTAL REINFORCEMENT SHALL BE W2.8 LADDER STYLE JOINT REINFORCING @ 16" O.C. VERTICAL.
- MASONRY BOND BEAMS SHALL BE INSTALLED AT TOP OF WALL IN ACCORDANCE WITH STRUCTURAL NOTES ON S100

FRAMING NOTES:

- ROOF SHEATHING OVER DECKING: 15/32" APA-RATED 32/16 MIN. WOOD STRUCTURAL PANELS MANUFACTURED W/ EXTERIOR-GRADE GLUE & FASTENED W/ 6d COMMON NAILS (0.113"Øx2" LONG) OR GALVANIZED 6d BOX NAILS (0.099"Øx2" LONG) AS FOLLOWS:
NAILING PATTERN:
SUPPORTED EDGES & DIAPHRAGM BOUNDARIES: 6" O.C. FIELD & INTERMEDIATE SUPPORTS. 6" O.C.
- ROOF DECKING: MINIMUM SYP #2 2x6 T&G DECKING SPANNING OVER (3) TRUSSES (MIN).
NAILING PATTERN:
SUPPORTED EDGES & DIAPHRAGM BOUNDARIES: (3) 16d NAILS FIELD & INTERMEDIATE SUPPORTS. (2) 16d NAILS
- ALL EXTERIOR WALLS ARE TO BE FRAMED W/ P.T. 2x6 @ 16" O.C. - U.N.O.
- ALL EXTERIOR WALL SHEATHING AS FOLLOWS (U.N.O.):
1/2" PRESSURE TREATED PLYWOOD MANUFACTURED AS EXPOSURE 1 & FASTENED W/ OR GALVANIZED 8d BOX NAILS (0.113"Øx2.5" LONG) AS FOLLOWS:
NAILING PATTERN:
SUPPORTED EDGES & DIAPHRAGM BOUNDARIES: 3" O.C. FIELD & INTERMEDIATE SUPPORTS: 12" O.C.

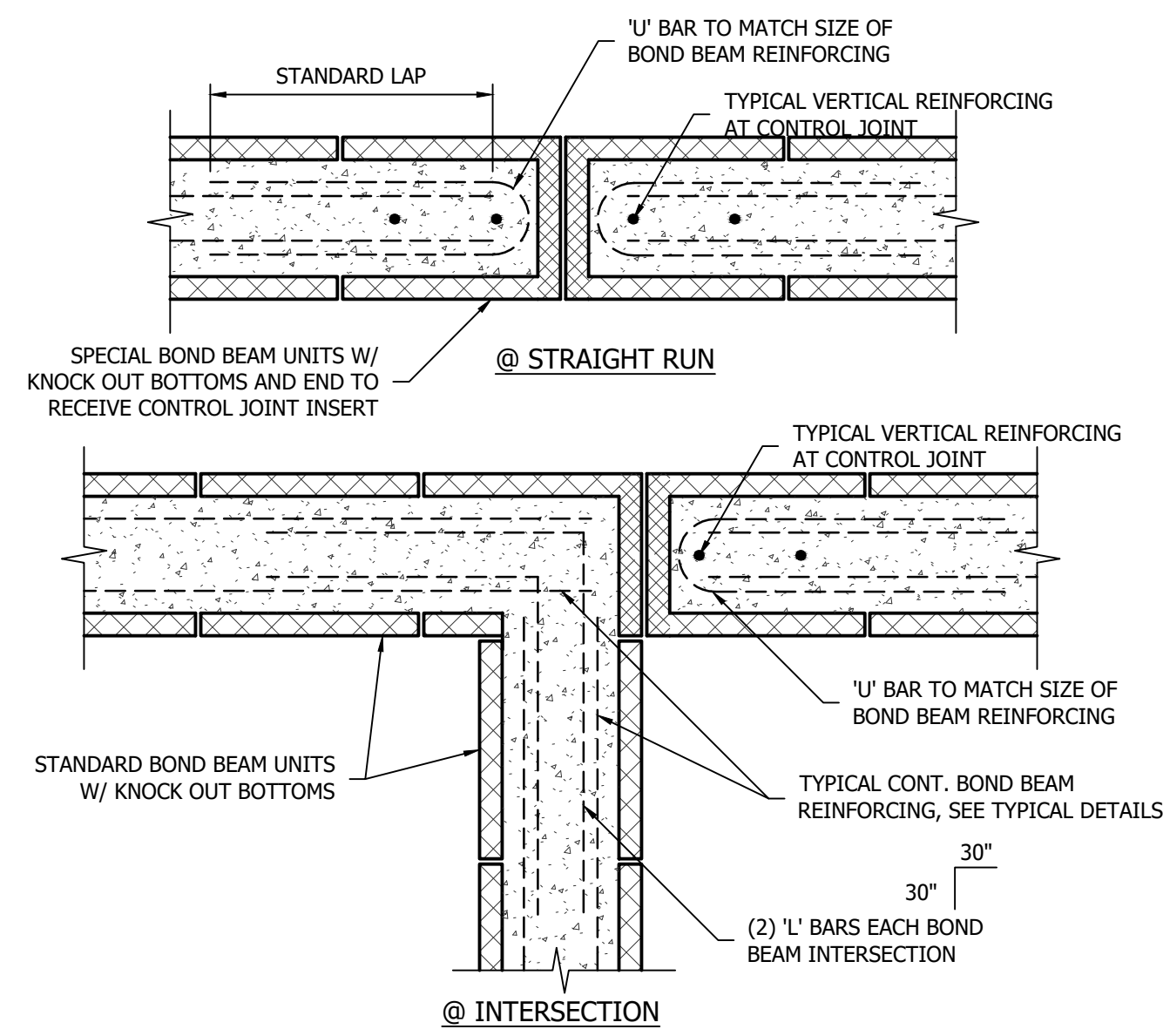


CITY OF BEAUFORT
BEAUFORT, SC 29902
PROJECT TITLE
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

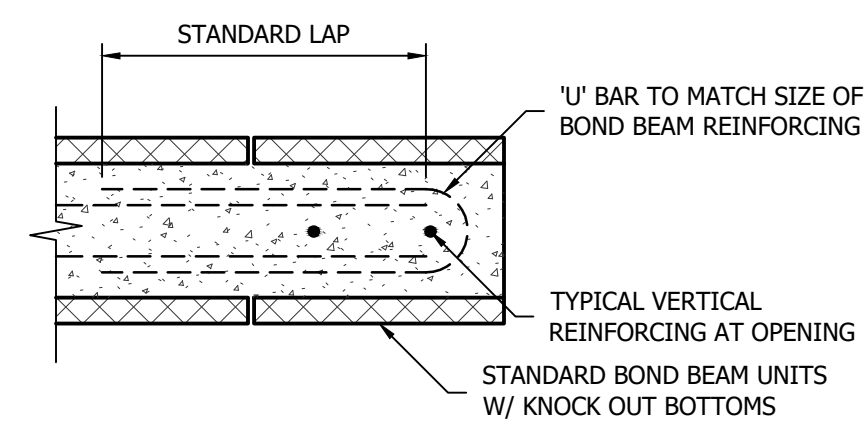
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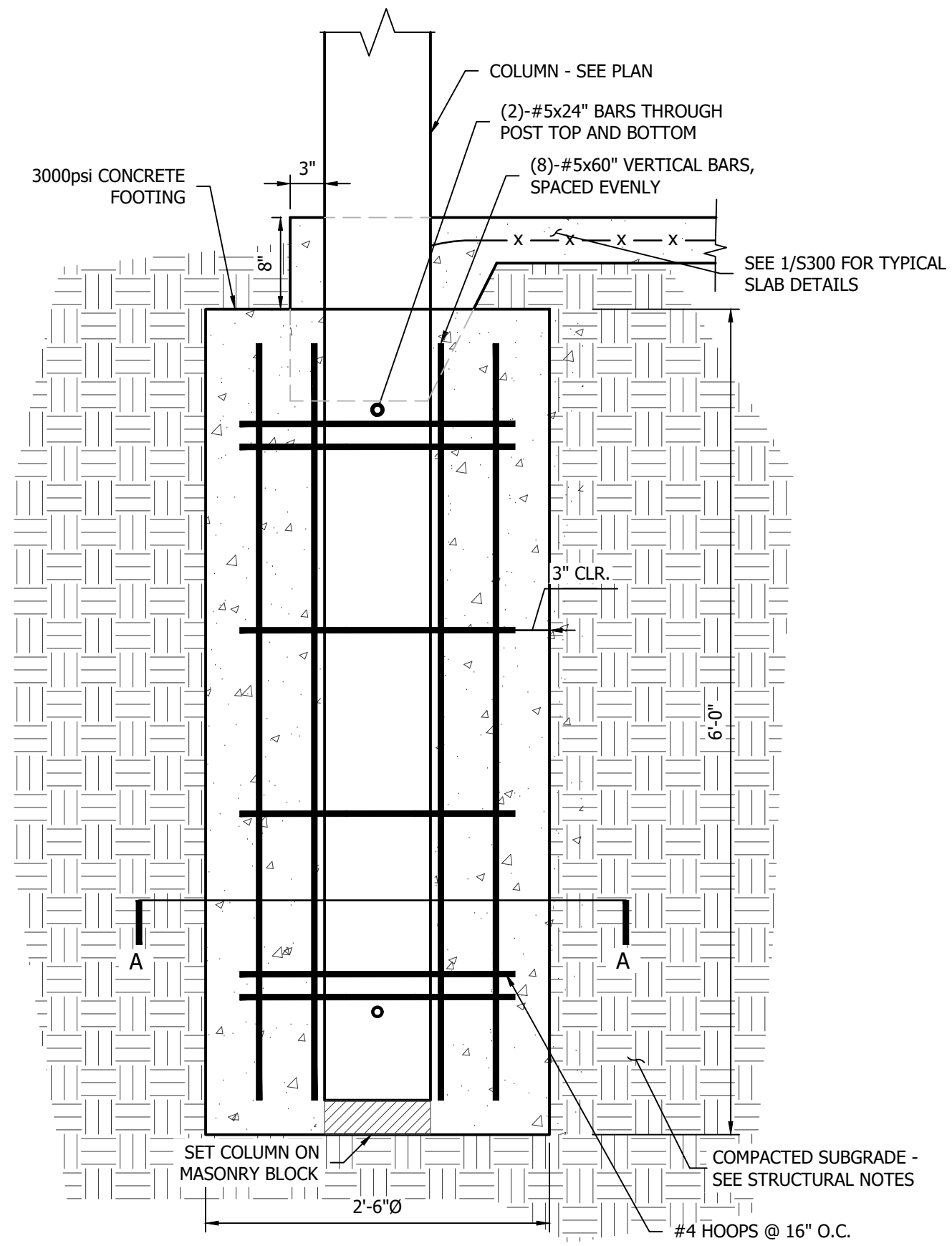
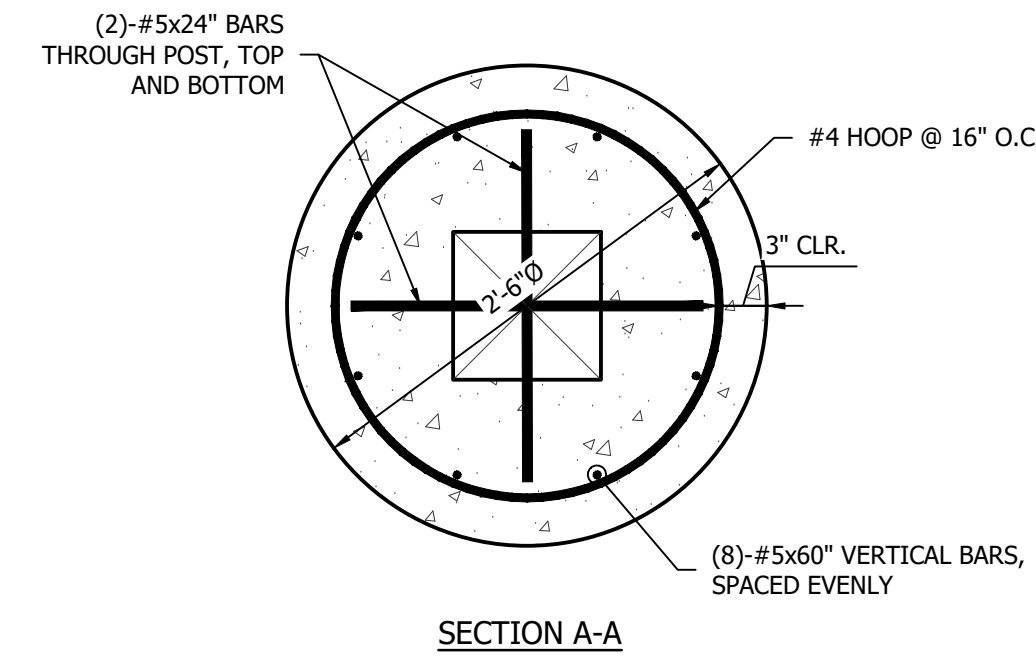
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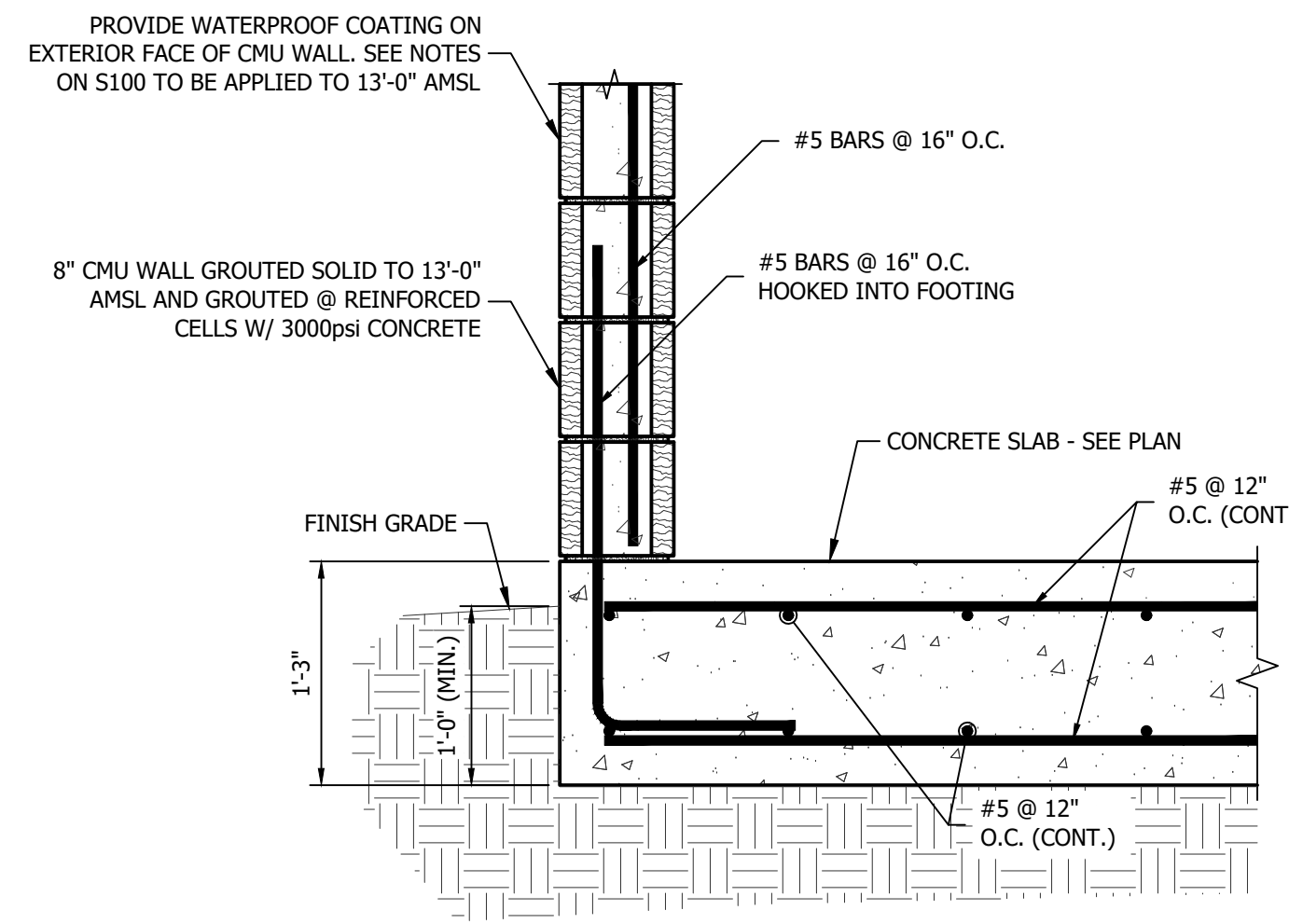
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S300 NOT TO SCALE



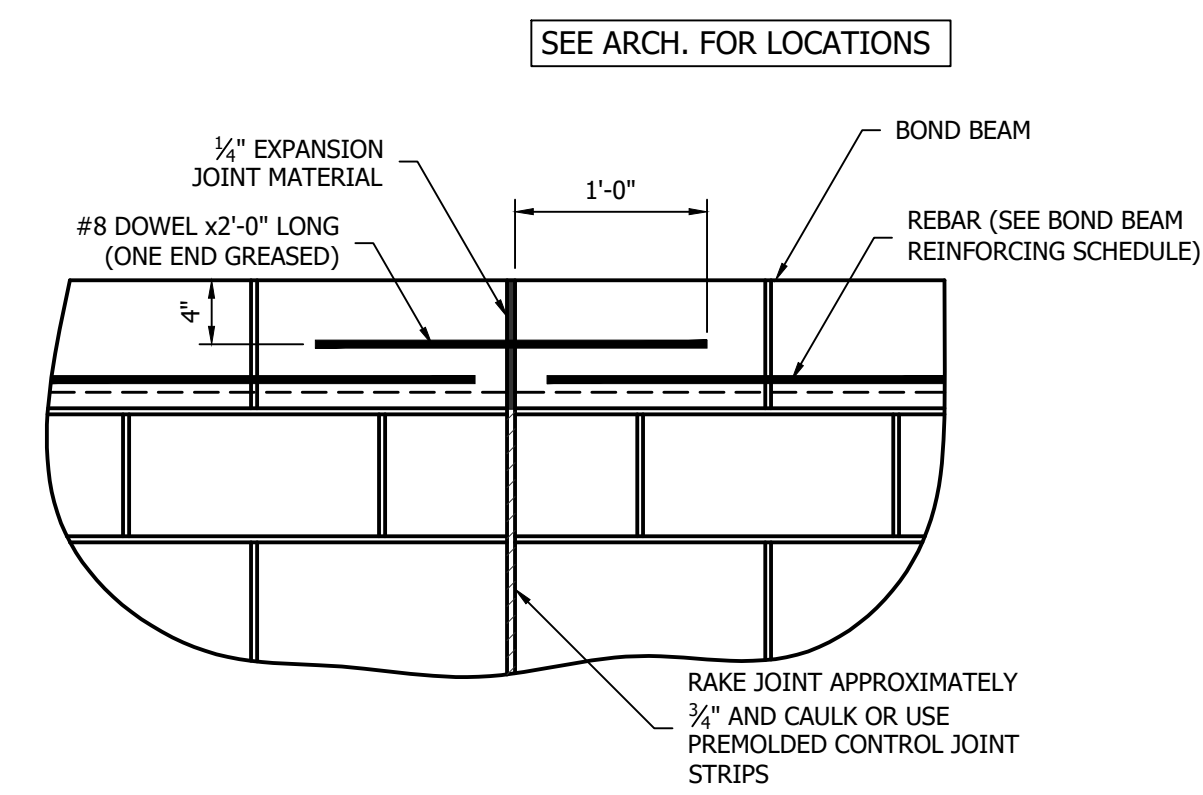
7 TYPICAL BOND BEAM REINFORCING (WALL OPENING)
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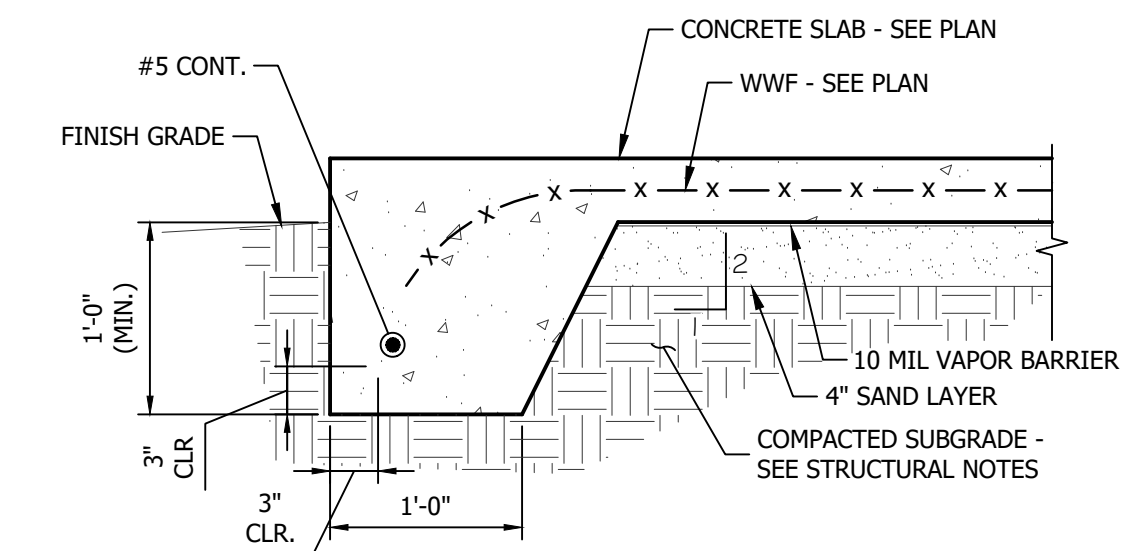
3 FOOTING AT COLUMN
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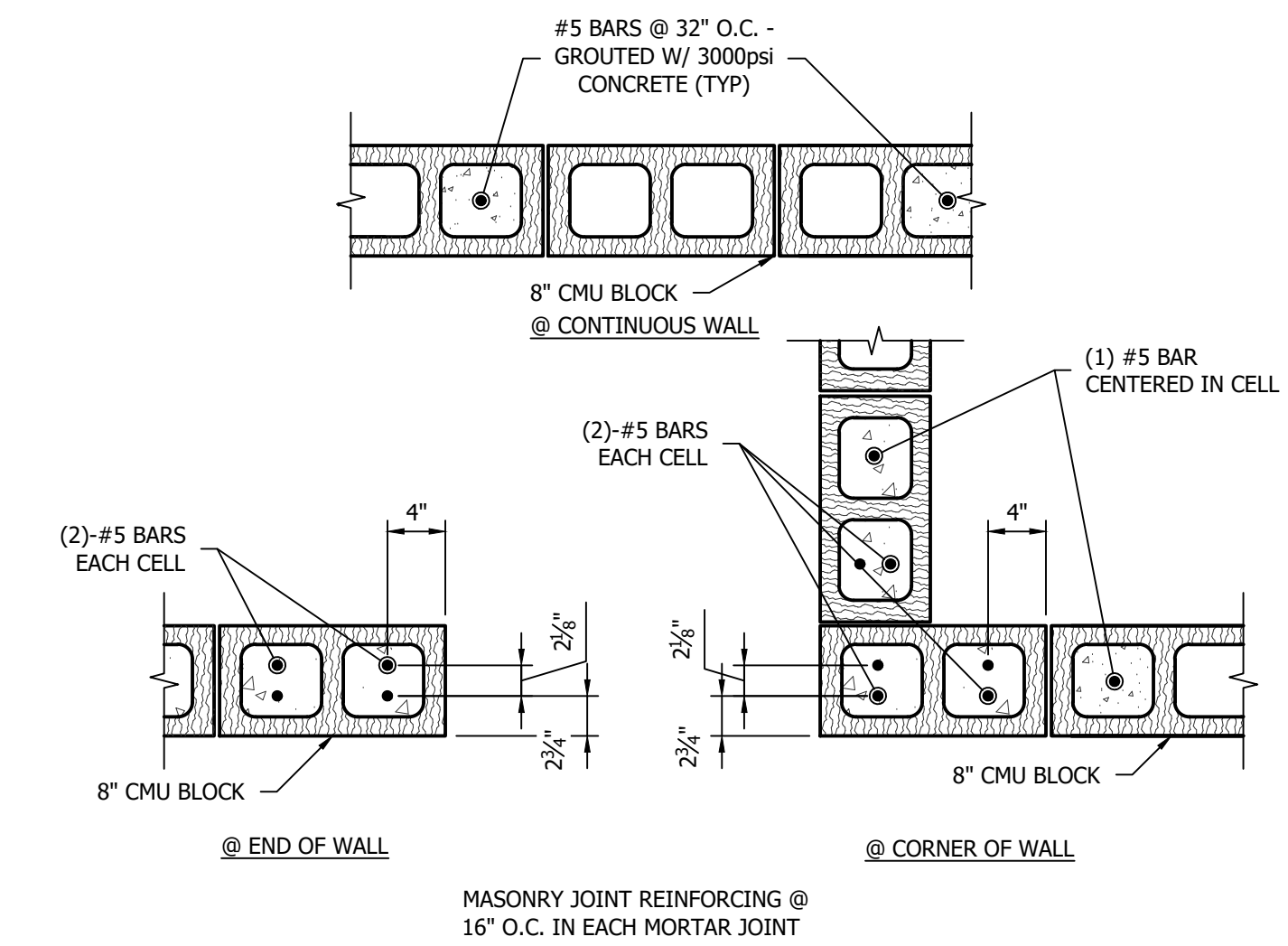
2 TYP. MAT FOOTING
S300 NOT TO SCALE



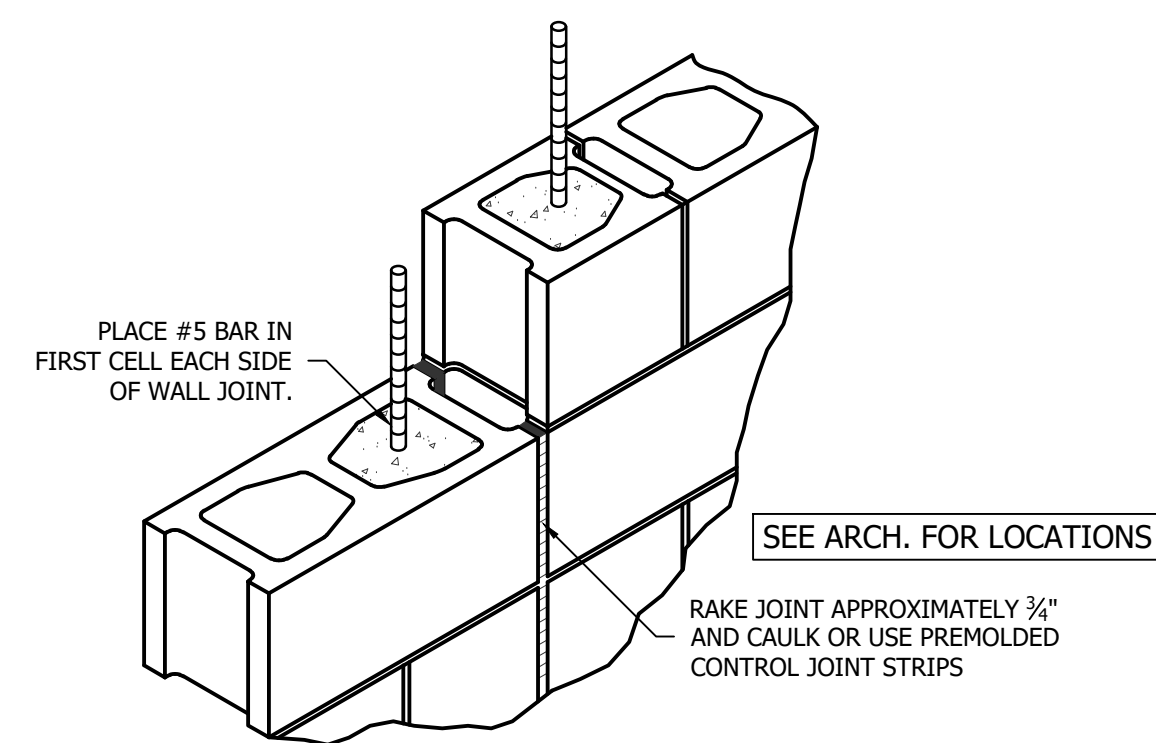
6 CONTROL JOINT @ BOND BEAM
S300 NOT TO SCALE



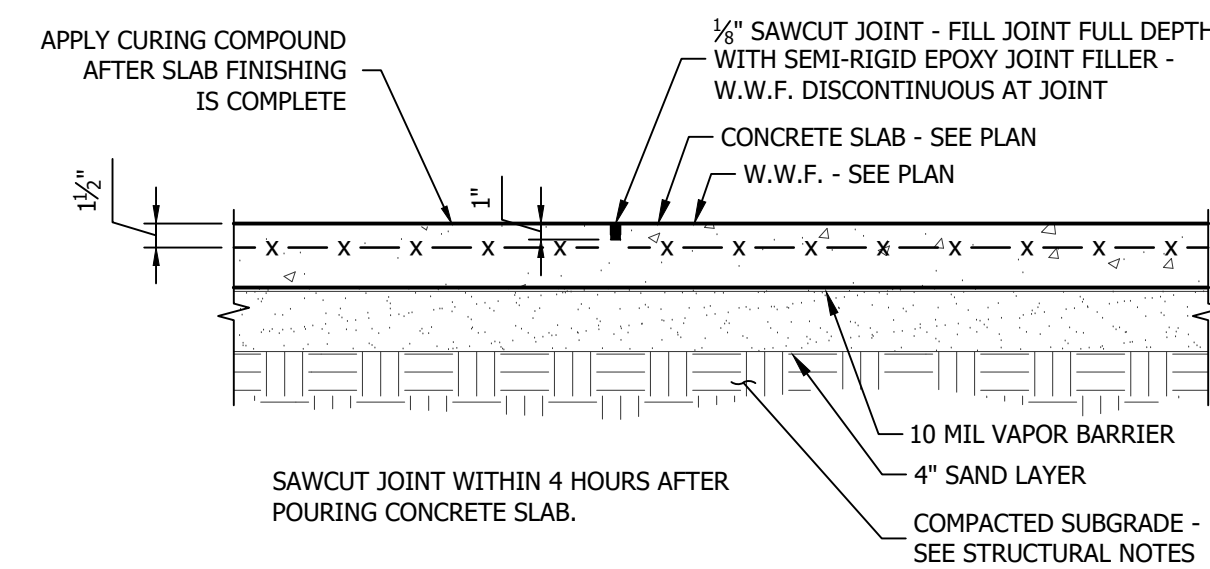
1 TYP. TURNDOWN SLAB
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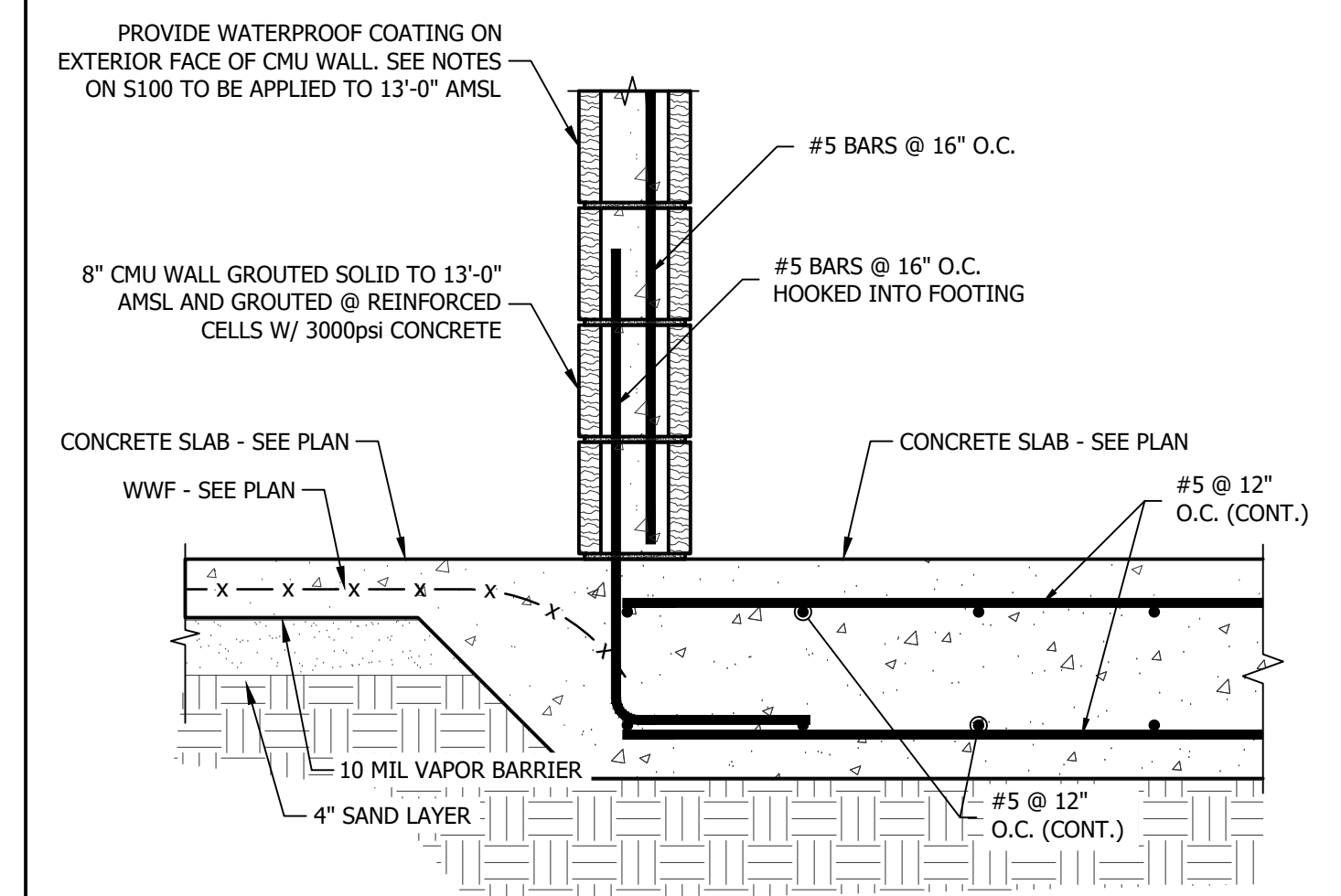
5 REINFORCED MASONRY PIER
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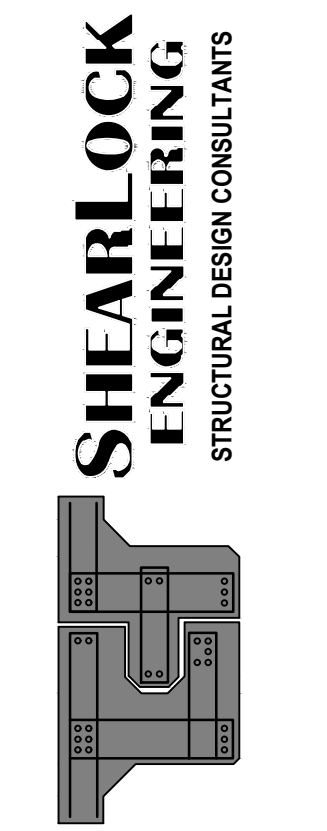
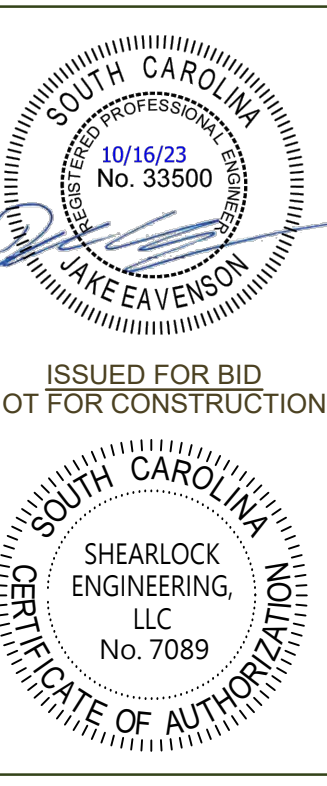
10 MASONRY CONTROL JOINT
S300 NOT TO SCALE



9 SLAB CONTROL JOINT DETAIL - 4"
S300 NOT TO SCALE



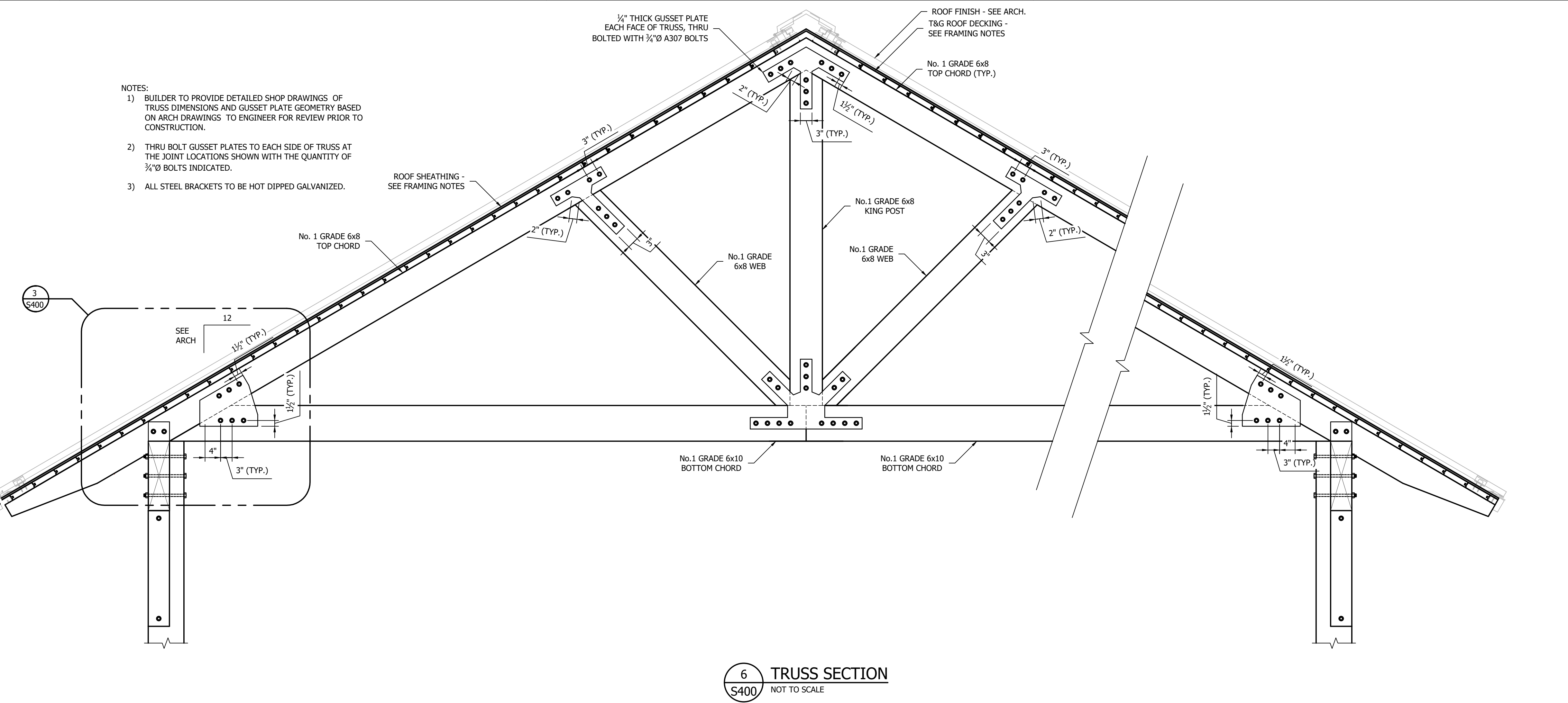
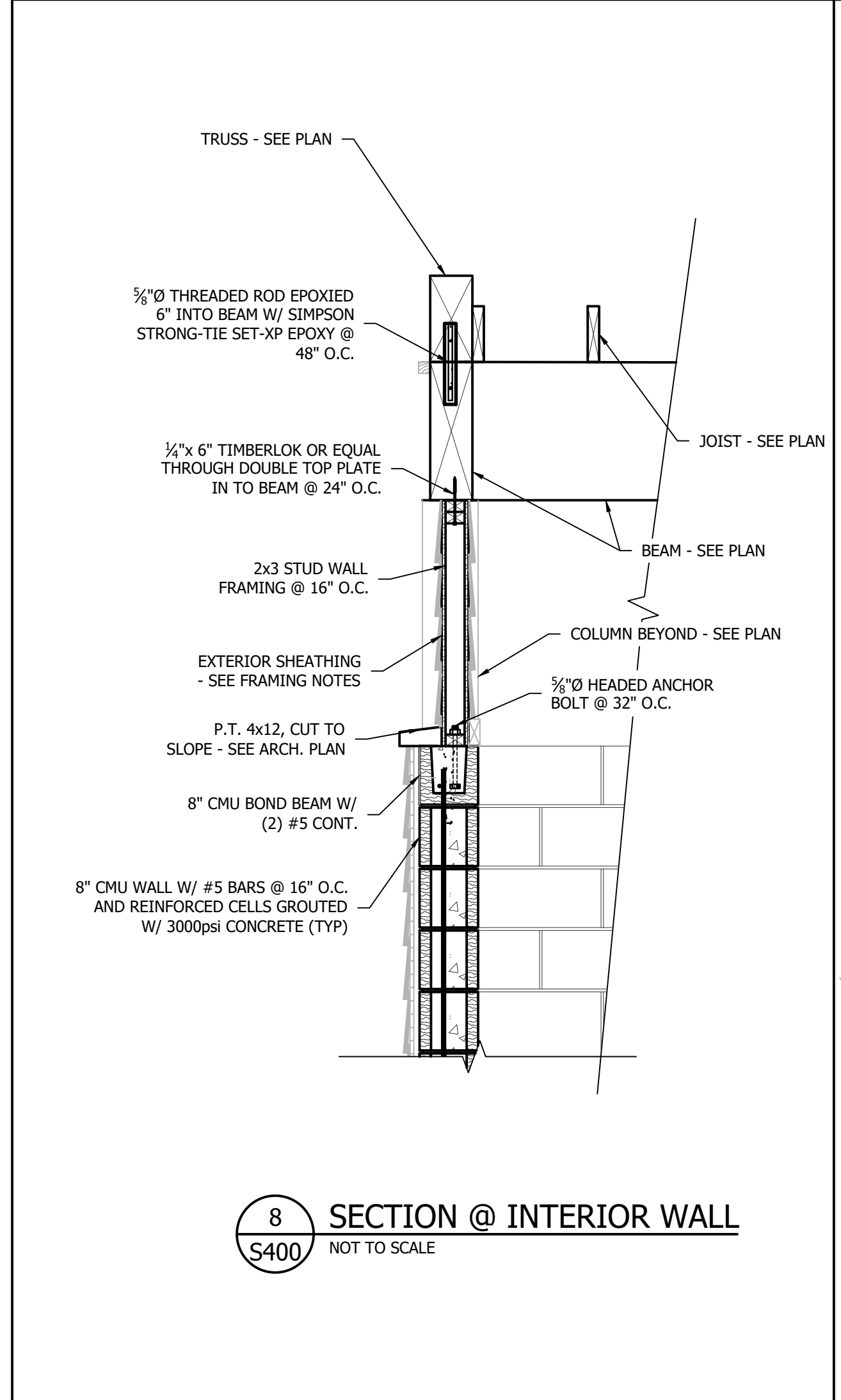
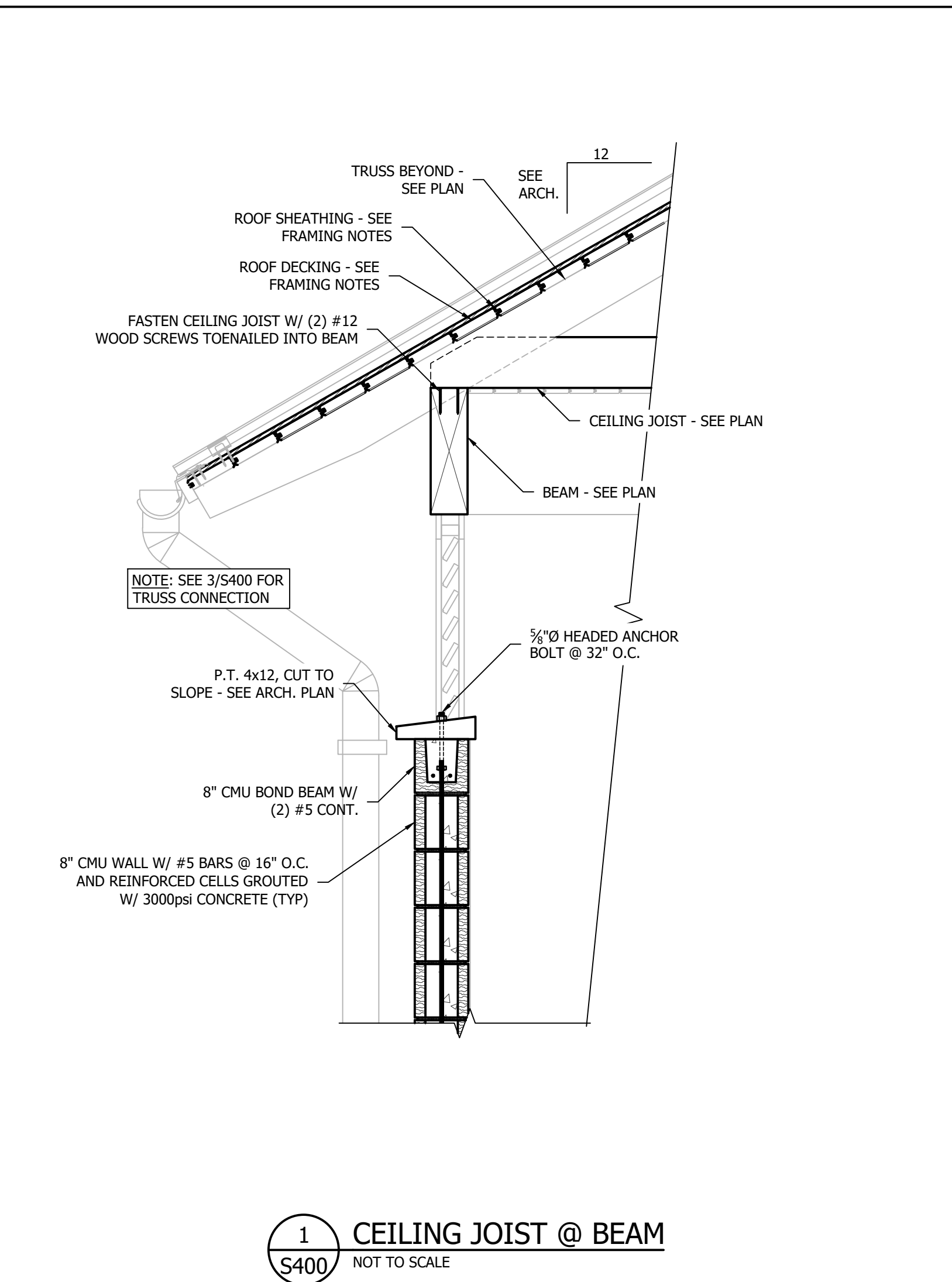
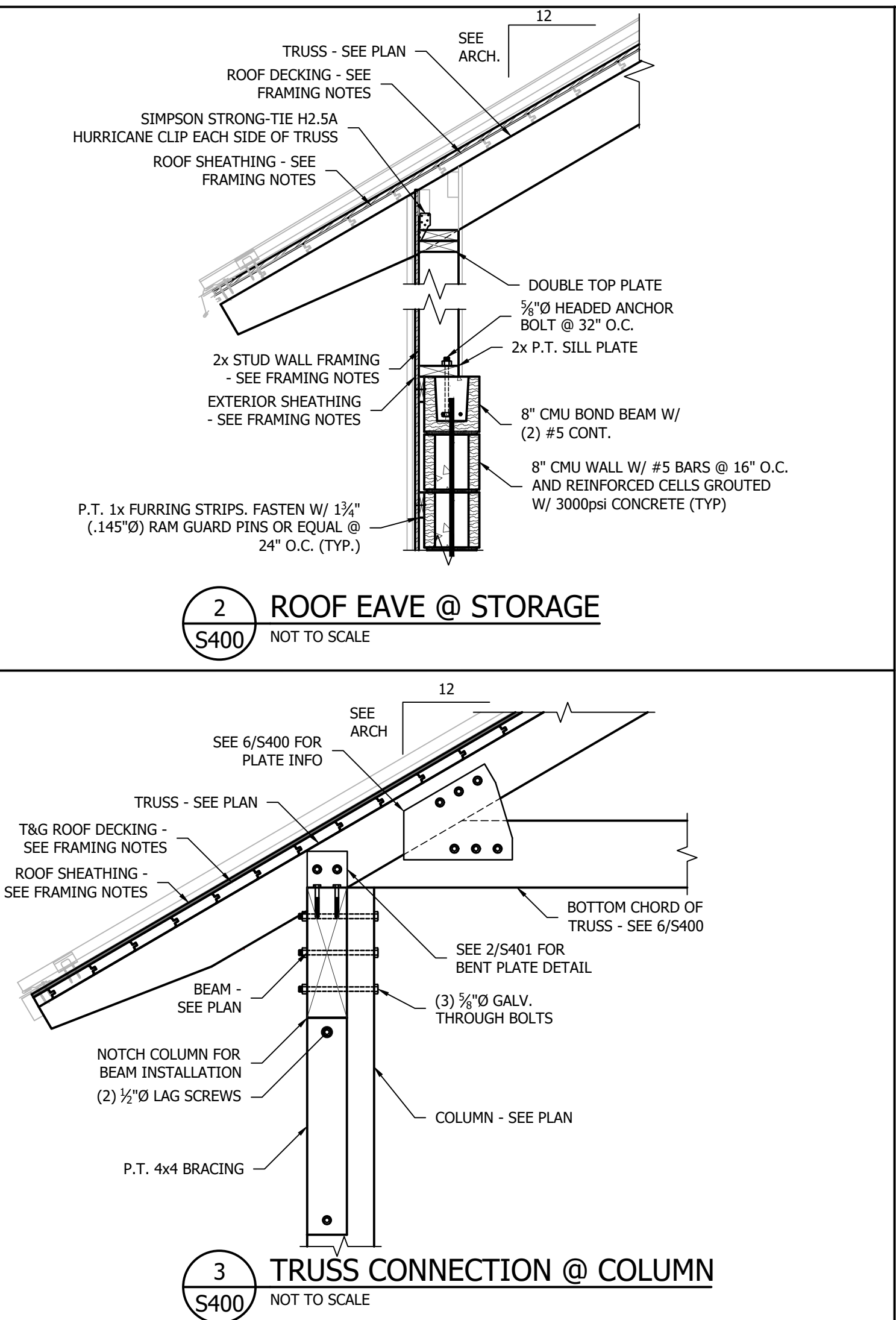
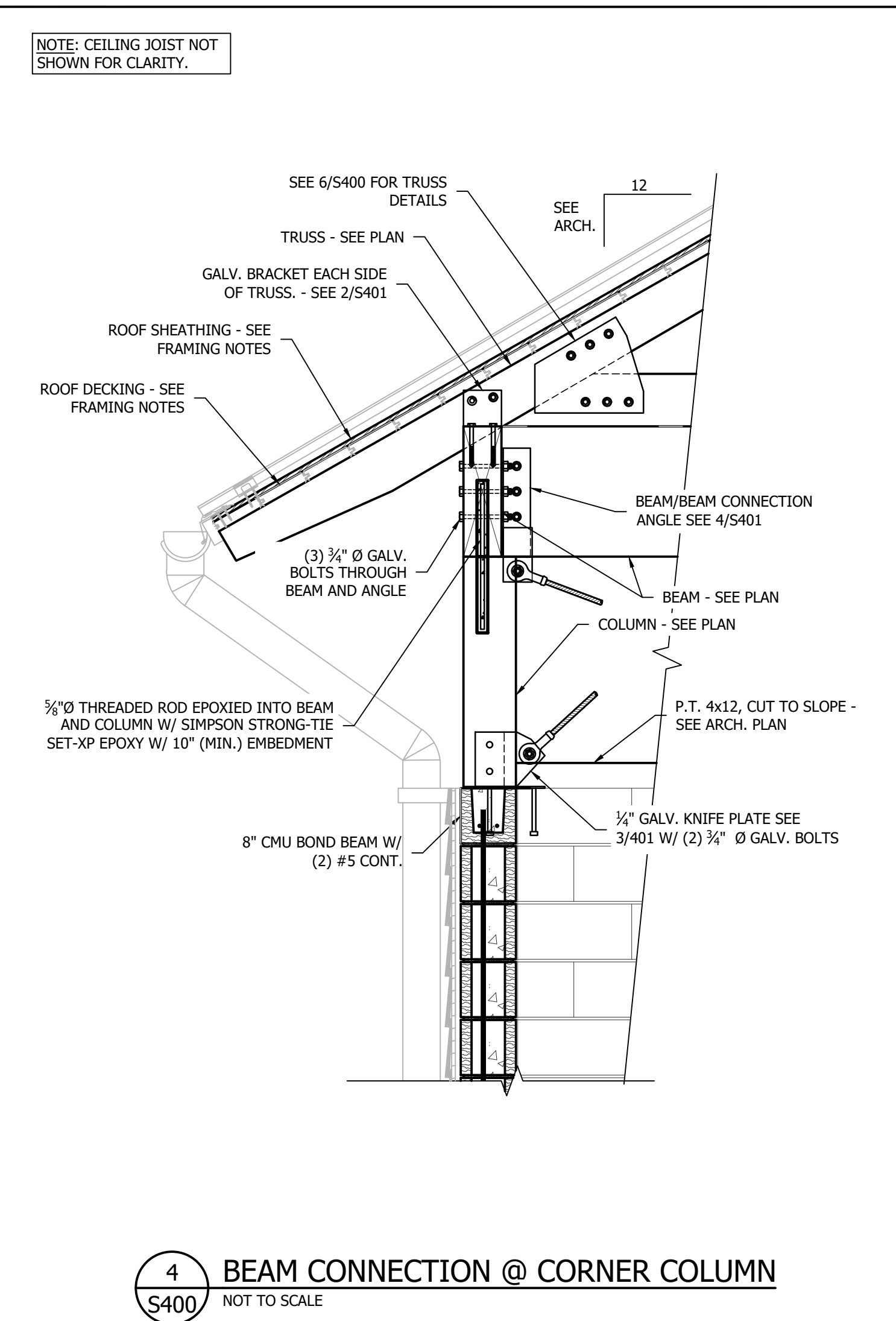
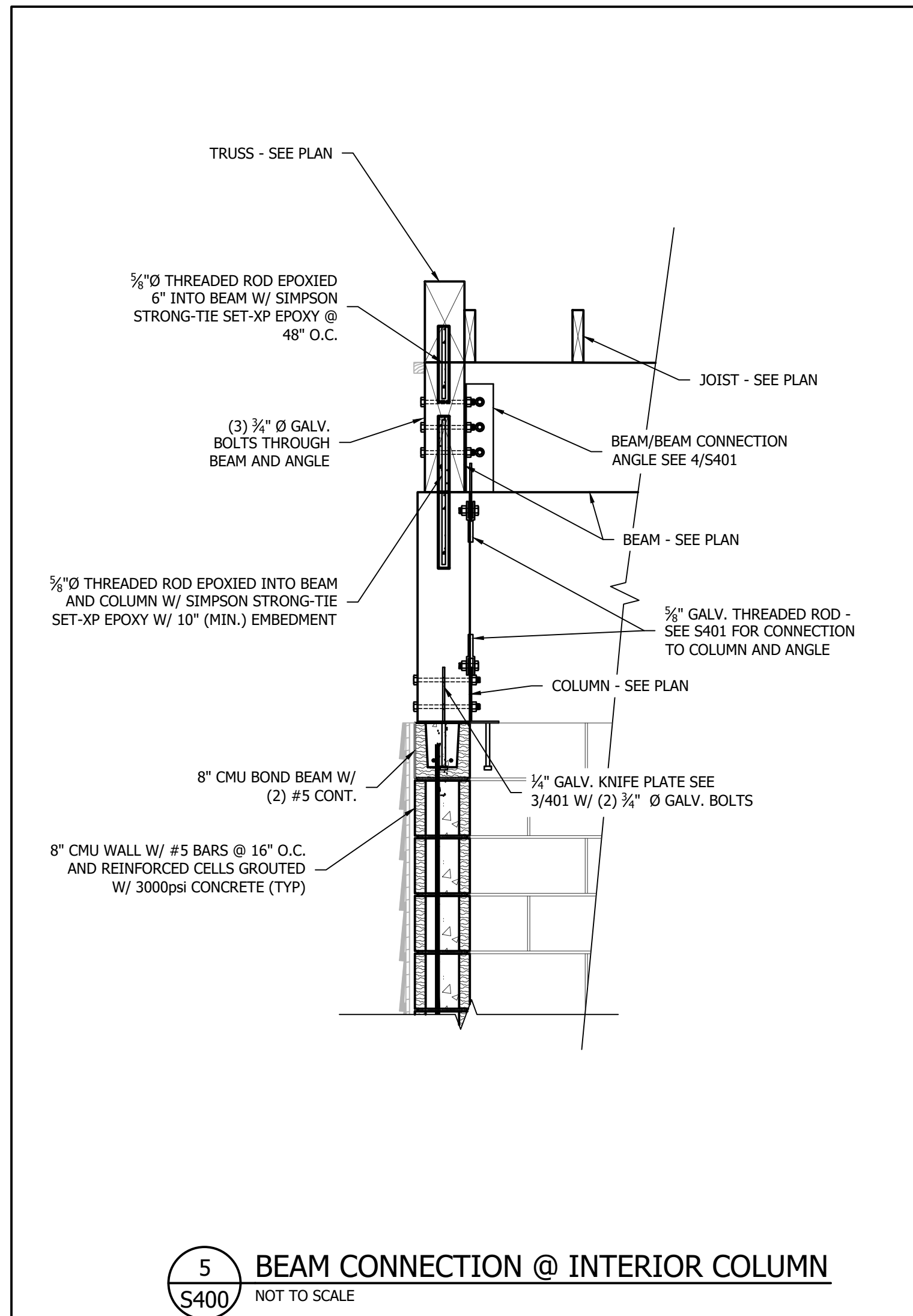
8 TYP. MAT FOOTING
S300 NOT TO SCALE



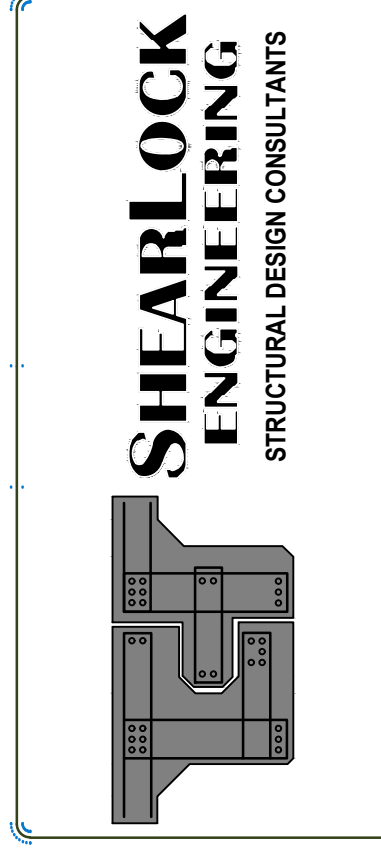
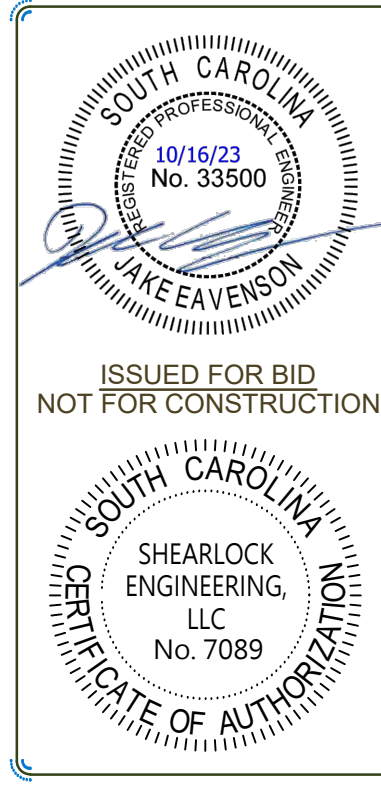
CITY OF BEAUFORT
BEAUFORT, SC 29902
PROJECT TITLE
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

STRUCTURAL DETAILS

| NO. | DATE | DESCRIPTION | BY | CHKD |
|-----|------------|-------------------|-----|------|
| 1 | 09/16/2023 | ISSUE FOR BIDDING | JTB | JTB |
| 2 | 10/16/2023 | REVISED FOR BID | JTB | JTB |
| 3 | 10/16/2023 | REVISED FOR BID | JTB | JTB |
| 4 | 10/16/2023 | REVISED FOR BID | JTB | JTB |
| 5 | 10/16/2023 | REVISED FOR BID | JTB | JTB |
| 6 | 10/16/2023 | REVISED FOR BID | JTB | JTB |
| 7 | 10/16/2023 | REVISED FOR BID | JTB | JTB |
| 8 | 10/16/2023 | REVISED FOR BID | JTB | JTB |
| 9 | 10/16/2023 | REVISED FOR BID | JTB | JTB |
| 10 | 10/16/2023 | REVISED FOR BID | JTB | JTB |



- NOTES:
- 1) BUILDER TO PROVIDE DETAILED SHOP DRAWINGS OF TRUSS DIMENSIONS AND GUSSET PLATE GEOMETRY BASED ON ARCH DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
 - 2) THRU BOLT GUSSET PLATES TO EACH SIDE OF TRUSS AT THE JOINT LOCATIONS SHOWN WITH THE QUANTITY OF 3/4" BOLTS INDICATED.
 - 3) ALL STEEL BRACKETS TO BE HOT DIPPED GALVANIZED.



CITY OF BEAUFORT
BEAUFORT, SC 29902
PROJECT TITLE
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

STRUCTURAL DETAILS

| NO. | DATE | DESCRIPTION |
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| 1 | 01/10/2023 | ISSUED FOR BID |
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DRAWN BY: JTB
 CHECKED BY: JTB
 APPROVED BY: JTB

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SHEARLOCK ENGINEERING
 STRUCTURAL DESIGN CONSULTANTS

PAGE 11 OF 21

AIR DISTRIBUTION DEVICE SCHEDULE

WC - ALUMINUM WALL CAP WITH BIRD SCREEN. BROAN MODEL 641.

GENERAL MECHANICAL NOTES

- IN PREPARATION OF THESE PLANS, THE ENGINEER HAS USED CERTAIN ABBREVIATIONS, CONVENTIONS, AND SYMBOLS, THE MEANING OF WHICH ARE ILLUSTRATED AND EXPLAINED WITHIN THE LEGEND.
- PLANS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO INDICATE CAPACITY, SIZE, LOCATION, DIRECTION, AND GENERAL ARRANGEMENT, BUT NOT EXACT DETAILS OF CONSTRUCTION. THE FACT THAT ONLY CERTAIN FEATURES OF THE INSTALLATION ARE INDICATED MUST NOT BE TAKEN TO MEAN THAT OTHER FEATURES WILL NOT BE REQUIRED.
- COORDINATE WITH THE OTHER TRADES TO ENSURE THAT EACH TRADE SHALL HAVE SUFFICIENT SPACE TO INSTALL THEIR EQUIPMENT (DUCTWORK, PIPING, ELECTRICAL WORK, ETC.).
- IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN IN THE CEILING SPACE UNLESS NOTED OR INDICATED OTHERWISE.
- VERIFY ALL DIMENSIONS FROM ARCHITECTURAL PLANS AND FIELD DIMENSIONS.
- DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- ALL RISES AND DROPS IN PIPING AND DUCTWORK MAY NOT NECESSARILY HAVE BEEN SHOWN. CONTRACTOR TO VERIFY.
- PROVIDE ALL STRUCTURAL MEMBERS, SUPPORT BRACKETS, FLASHING, HARDWARE, ETC. REQUIRED TO INSTALL A COMPLETE SYSTEM.
- DIFFUSERS AND REGISTER LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURE AND OTHER CEILING DEVICE LOCATIONS. FIELD VERIFY.
- MOUNT ALL THERMOSTATS AND/OR SENSORS 4 FEET ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.

GENERAL MECHANICAL NOTES

- COMPLY WITH ALL APPLICABLE SOUTH CAROLINA BUILDING CODES FOR ALL WORK UNDER THIS CONTRACT.
- FABRICATE ALL DUCTWORK IN ACCORDANCE WITH SMACNA STANDARDS. ALL DUCTWORK SHALL BE A MINIMUM OF 26 GAUGE.
- PROVIDE ACCESS DOORS IN INACCESSIBLE CEILINGS TO ACCESS MEP DEVICES ABOVE CEILINGS NOT OTHERWISE ACCESSIBLE.
- DUCT PRESSURE CLASSIFICATION SHALL BE AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. IF NOT INDICATED, IT SHALL BE AS FOLLOWS:
- EXHAUST DUCTS: 1" NEGATIVE
- ALL DUCTWORK JOINTS AND SEAMS SHALL BE SEALED WITH WATER BASED DUCT SEALANT.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING AIR DEVICES.
- VERIFY REFLECTED CEILING PLANS IN THE FIELD FOR EXACT LAYOUT LOCATION OF ALL CEILING GRILLES & DIFFUSERS, COORDINATE WITH ALL OTHER TRADES FOR THEIR LAYOUTS.
- COORDINATE FINAL EQUIPMENT/FIXTURE LOCATIONS WITH THE GENERAL CONTRACTOR. THE LOCATION AS INDICATED ON THE DRAWING IS APPROXIMATE. INSTALL ALL MECHANICAL EQUIPMENT SUCH THAT MANUFACTURER'S MAINTENANCE AREA IS CLEAR.
- COORDINATE ALL MECHANICAL, PLUMBING AND ELECTRICAL WORK & EQUIPMENT WITH STRUCTURAL MEMBERS, ELECTRICAL WORK, FIXTURES AND ALL OTHER TRADES.
- PROVIDE FLEXIBLE DUCT FLEXIBLE CONNECTION BETWEEN EACH DUCT FAN CONNECTION.
- PROVIDE VFD'S, STARTERS AND DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT WHICH COMPLY WITH SPECIFICATIONS FOR MANUFACTURER, QUALITY, CONFORMANCE AND OPTIONS.
- THE MECHANICAL CONTRACTOR IS TO COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS.
- THE MECHANICAL CONTRACTOR TO VERIFY MECHANICAL EQUIPMENT LOCATIONS AND BE RESPONSIBLE FOR ALL RELATED CLEARANCES IN THE FIELD. PROVIDE ADEQUATE MAINTENANCE CLEARANCE AROUND EACH PIECE OF EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE CLEARANCE IN FRONT OF ELECTRICAL PANELS AND OTHER ELECTRICAL EQUIPMENT PER THE NATIONAL ELECTRICAL CODE REQUIREMENTS. COORDINATE WITH THE ELECTRICAL AND GENERAL CONTRACTORS IN THE FIELD.
- PROVIDE WATER PROOF SEALING OF PIPE AND DUCT PENETRATIONS OF EXTERIOR WALLS, FLOORS, AND/OR ROOF.
- VERIFY COLLAR SIZES ON ALL EQUIPMENT INLETS AND OUTLETS. TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE ALL TRANSITIONS AT EQUIPMENT CONNECTIONS.
- INSTALL EQUIPMENT AND DUCTWORK TO MANUFACTURER'S RECOMMENDED CLEARANCES.
- DO NOT MOUNT DISCONNECT SWITCHES ON HVAC EQUIPMENT EXCEPT AS RECOMMENDED BY MANUFACTURER.
- EXHAUST AIR DUCTWORK TO BE SINGLE WALL ROUND OR RECTANGULAR (AS INDICATED ON PLANS), SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A.
- AVOID ROUTING DUCTWORK OVER LIGHTS WHEREVER POSSIBLE. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN DUCT INSULATION TO TOP OF LIGHTS.
- WORK SHALL COMPLY WITH THE FOLLOWING AGENCIES
- 2018 INTERNATIONAL BUILDING CODE WITH SOUTH CAROLINA AMENDMENTS
- 2018 INTERNATIONAL MECHANICAL CODE WITH SOUTH CAROLINA AMENDMENTS
- NATIONAL FIRE PROTECTION AGENCY (NFPA)
- AMERICAN SOCIETY OF HEATING AND REFRIGERATION ENGINEERS (ASHRAE)
- CONTRACTOR SHALL PROVIDE O&M MANUALS TO THE OWNER WITHIN 90 DAYS OF SYSTEM ACCEPTANCE
- THE ENTIRE MECHANICAL SYSTEMS INCLUDING EXHAUST FANS SHALL BE TESTED, BALANCED AND ADJUSTED TO PROVIDE THE AIR VOLUME INDICATED ON THE DRAWINGS.

Ductless Split System Heat Pump

| | |
|-------------------------------|--------------------------|
| UNIT NO. | DSS-1/HP-1 |
| MANUFACTURER | CARRIER |
| MODEL NUMBER (INDOOR/OUTDOOR) | 38MARBQ12AA3 / 40V/MW012 |
| VOLTAGE / PHASE | 208/1 |
| COOLING CAPACITY (MBH) | 12.0 |
| HEATING CAPACITY (MBH) | 14.0 |
| S.E.E.R / HSPF | 20.8 / 10.2 |
| AIRFLOW (CFM) | 360 |
| OUTSIDE AIR (CFM) | -- |
| MCA / MOCP | 13 / 15 |
| INDOOR FAN FLA | 0.33 |
| REMARKS | 1,2,3,4,5 |

NOTES:

- ELECTRICAL TO PROVIDE DISCONNECT SWITCH FOR INDOOR AND OUTDOOR UNITS.
- INDOOR UNIT POWERED BY OUTDOOR UNIT.
- PROVIDE INTEGRAL CONDENSATE PUMP.
- REFRIGERANT R-410A. SIZE AND ROUTE REFRIGERANT LINES PER MANUFACTURER'S...
- PROVIDE WALL MOUNTED WIRELESS PROGRAMMABLE THERMOSTAT.

MECHANICAL SYMBOL LEGEND

| | |
|--|----------------------------------|
| | CEILING EXHAUST GRILLE |
| | CEILING EXHAUST FAN |
| | RETURN / EXHAUST DUCT TURNING DN |
| | RETURN / EXHAUST DUCT TURNING UP |
| | 3/4" UNDERCUT BELOW DOOR |
| | BALL VALVE |

GENERAL SYMBOLS

| | |
|--|---------------------------------|
| | PLAN OR DETAIL NO. SHEET NUMBER |
| | KEYED NOTE TO PLAN |
| | REVISION NUMBER |
| | NORTH ARROW |

EXHAUST FAN SCHEDULE

| MARK | SERVES | *TYPE | **DRIVE TYPE | CFM | STATIC PRESS. IN. W.C. | RPM | MOTOR HP(WATTS) | MAX. INLET SONES | BASIS OF DESIGN | WEIGHT (LBS) | NOTES |
|--------|-----------|-------|--------------|-----|------------------------|-----|-----------------|------------------|---------------------|--------------|-------|
| EF-1&2 | RESTR00MS | C | D | 100 | 0.35 | 911 | (8) | 2 | GREENHECK SP-110-VG | 11 | 1-3 |

* IL: - IN-LINE.
C: - CEILING.
** B: - BELT.
D: - DIRECT.

NOTES:

- PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
- FAN OPERATION TO BE INTERLOCKED WITH LIGHTS. INTERLOCK WITH WALL SWITCH PROVIDED BY ELECTRICAL.
- PROVIDE WITH SPEED CONTROLLER.

CEILING FAN SCHEDULE

| TAG | MANUFACTURER | MODEL | DIAMETER (IN) | MOUNT TYPE | # OF AIRFOILS | WEIGHT (LBS) | SOUND LEVEL (DBA) | FAN SPEED | RPM (MAX) | CONTROL | VOLT/PH | WATTS (MAX) | NOTES |
|------|--------------|-----------|---------------|------------|---------------|--------------|-------------------|-----------|-----------|---------|---------|-------------|-------|
| CF-1 | GREENHECK | DC-5-6-MV | 72 | STANDARD | 5 | 40 | <35 | 7 SPEEDS | 170 | 0-24V | 120V/1 | 21 | 1-6 |

NOTES:

- VERIFY EXTENSION TUBE LENGTH AND MOUNTING BRACKET WITH MANUFACTURER PRIOR TO ORDERING.
- PROVIDE WALL MOUNTED FAN SPEED CONTROLLER AND SWITCH WITH LOCKABLE COVER. SEE PLANS FOR LOCATION.
- PROVIDE FAN WITH BLACK FINISH.
- PROVIDE NECESSARY FAN EXTENSION ROD. FIELD VERIFY CEILING HEIGHT AND TUBE EXTENSION LENGTH.
- FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FASTENING AND MOUNTING FAN TO STRUCTURE.
- PROVIDE A HARD WIRED GREENHECK HVLS FAN SPEED CONTROLLER (24V) MOUNTED ON THE WALL. THE CEILING FAN OPERATION SHALL NOT REQUIRE WIFI OR A BLUETOOTH REMOTE. A SINGLE FAN WALL MOUNTED CONTROLLER WILL CONTROL ALL 6 CEILING FANS. THE CONTROLLER SHALL BE MOUNTED ON WALL WITHIN A LOCKABLE COVER. THE FAN CONTROL WIRE SHALL BE ROUTED IN GALV. METAL CONDUIT.

ELECTRIC WALL HEATER SCHEDULE

| MARK | SERVES | HEAT KW | FAN CFM | ELECTRICAL DATA | | | MANUFACTURER/ MODEL | NOTES |
|--------|-----------|---------|---------|-----------------|-------|----|---------------------|-------|
| | | | | VOLTS | PHASE | Hz | | |
| WH-1&2 | RESTROOMS | 1.5 | 150 | 115 | 3 | 60 | QMARK/CWH1151DSF | 1 |

HEATING SETPOINT 55 DEG F FOR FREEZE PROTECTION. (TYPICAL)

NOTES:

- PROVIDE WITH MANUFACTURER'S THERMOSTAT. SEMI-RECESSED MOUNTING FRAME, TAMPER RESISTANT WHITE COVER AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

MECHANICAL ABBREVIATIONS

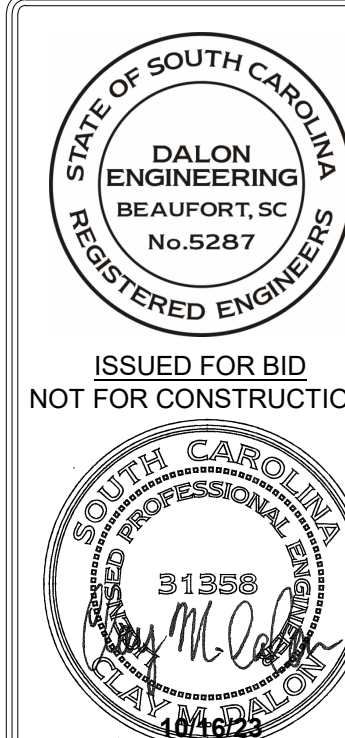
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|-----------|-------------------------------|
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| A | AMPERE |
| BHP | BRAKE HORSEPOWER |
| BTUH | BRITISH THERMAL UNIT PER HOUR |
| CLG | CEILING |
| CD | CONDENSATE DRAIN |
| CU | CONDENSING UNIT |
| CFM | CUBIC FEET PER MINUTE |
| Ø | DIAMETER |
| DX | DIRECT EXPANSION |
| DN | DOWN |
| DB | DRY BULB |
| EL | ELEVATION |
| EAT | ENTERING AIR TEMPERATURE |
| EQUIP | EQUIPMENT |
| EF | EXHAUST FAN |
| EXH | EXHAUST |
| EA | EXHAUST AIR |
| ESP | EXTERNAL STATIC PRESSURE |
| FPM | FEET PER MINUTE |
| FB | FILTER BOX |
| FPI | FINS PER INCH |
| FD | FIRE DAMPER |
| FLEX | FLEXIBLE |
| FL or FLR | FLOOR |
| GALV | GALVANIZED |
| HP | HORSEPOWER |
| KW | KILOWATT |
| VD | MANUAL VOLUME DAMPER |
| MANUF | MANUFACTURER |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| OBD | OPPOSED BLADE DAMPER |
| OA | OUTSIDE AIR |
| Ø | OVAL |
| LBS | POUNDS |
| RA | RETURN AIR AND/OR ROOM AIR |
| RTU | ROOFTOP UNIT |
| SQFT | SQUARE FEET |
| SQIN | SQUARE INCHES |
| SA | SUPPLY AIR |
| TEMP | TEMPERATURE |
| MBH | THOUSAND BTU/H |
| TAD | TRANSFER AIR DUCT |
| TYP | TYPICAL |
| UC | UNDERCUT |
| V | VOLTS |
| WB | WET BULB |
| W/ | WITH |
| w/o | WITHOUT |



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BEAUFORT, SC 29902
PROJECT TITLE
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

NOTES, LEGENDS, & SYMBOLS

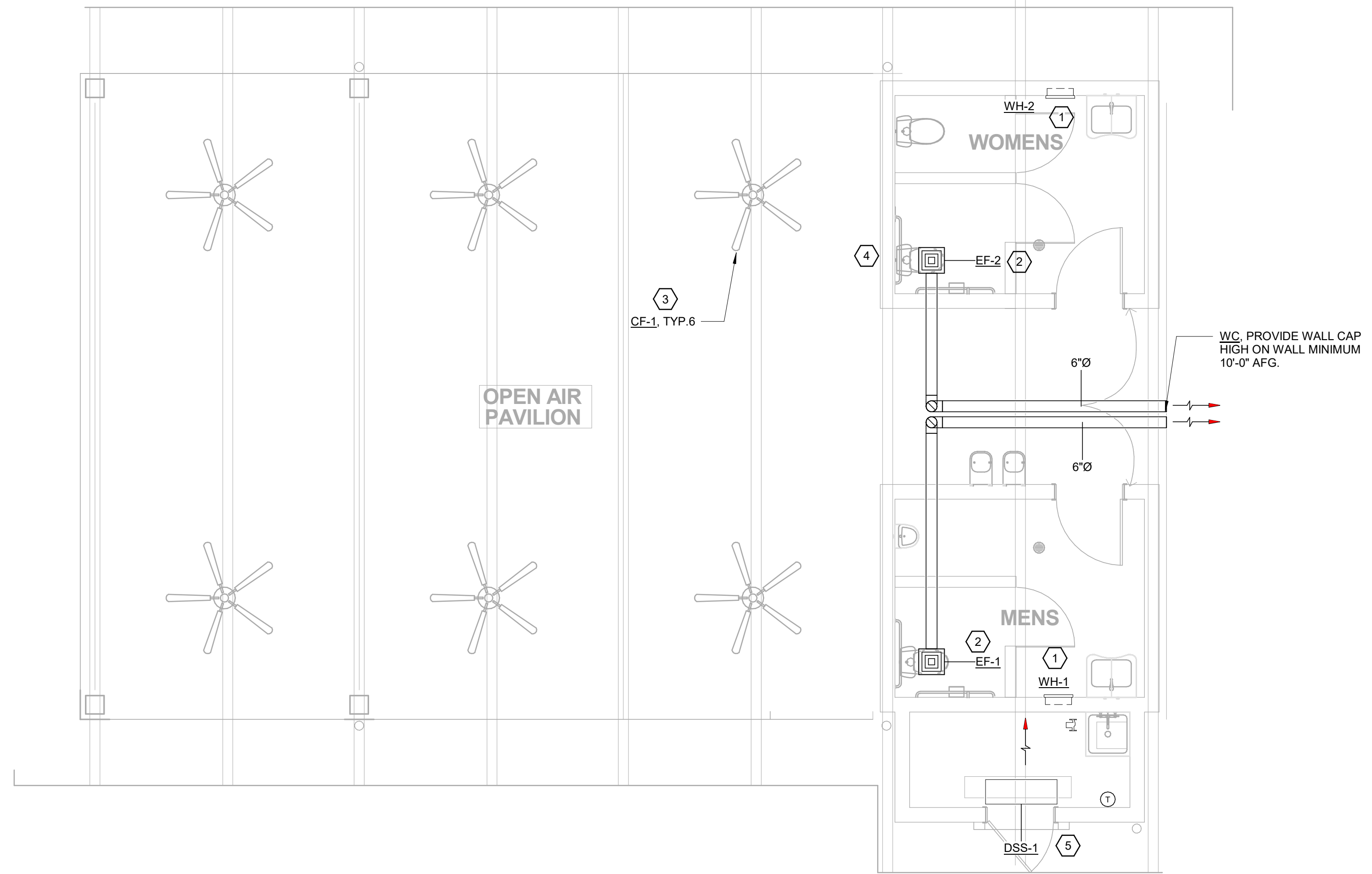
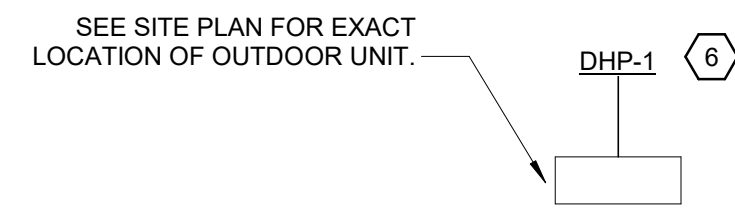
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| 2 | 04/16/23 | 100% SUBMITTAL - ISSUED FOR BID | |

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TIME: 10:16:23
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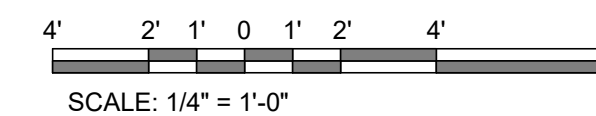
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V:\192.168.1.140\Dalton Engineering\Projects\2023\121 Southside Park\PF3 - Design Drawings\Architectural\23-121 Pavilion Titleblock\Site Title Block.dwg, 9/12/2023 2:46:52 PM, owner
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HVAC Floor Plan
 SCALE: 1/4" = 1'-0"



DALON
 ENGINEERING

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- # KEYED NOTES:
1. WALL MOUNTED SPACE HEATER. SEE SCHEDULE FOR ADDITIONAL INFORMATION.
 2. CEILING MOUNTED EXHAUST INTERLOCKED WITH LIGHT OCCUPANCY SENSOR.
 3. MOUNT CEILING FANS FOLLOWING MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 4. CEILING FANS ON/OFF SWITCH AND 7- SPEED CONTROLLER. A SINGLE FAN CONTROLLER WILL CONTROL ALL 6 CEILING FANS. THE CONTROLLER SHALL BE MOUNTED ON WALL WITHIN A LOCKABLE COVER. THE FAN CONTROLLER SHALL BE HARD WIRED. THE FAN CONTROL WIRE SHALL BE ROUTED IN EMT CONDUIT. THE FAN CONTROLS SHALL NOT REQUIRE A WIFI CONNECTION. OR BLUETOOTH REMOTE TO OPERATE OR TO SETUP FAN CONTROLLER.
 5. DUCTLESS AIR HANDLER MOUNTED ABOVE DOOR. SEE SCHEDULE ON SHEET M0.1 AND DETAILS ON SHEET M2 FOR ADDITIONAL INFORMATION. ROUTE INSULATED CONDENSATE WASTE TO MOP SINK.
 6. OUTDOOR HEAT PUMP UNIT MOUNTED ON CONCRETE MAINTENANCE PAD. ROUTE REFRIGERANT LINE SETS UNDERGROUND INSIDE PVC CONDUIT TO INDOOR UNIT LOCATED IN STORAGE ROOM. SEE INSTALLATION DETAIL ON SHEET M2.



OWNER
 CITY OF BEAUFORT
 BEAUFORT, SC 29902

PROJECT TITLE
 SOUTHSIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

HVAC FLOOR PLAN

| NO. | DATE | DESCRIPTION |
|-----|------------|-------------------|
| 1 | 09/19/2023 | ISSUE FOR BIDDING |
| 2 | 10/16/23 | ISSUE FOR BIDDING |

| NO. | DATE | DESCRIPTION |
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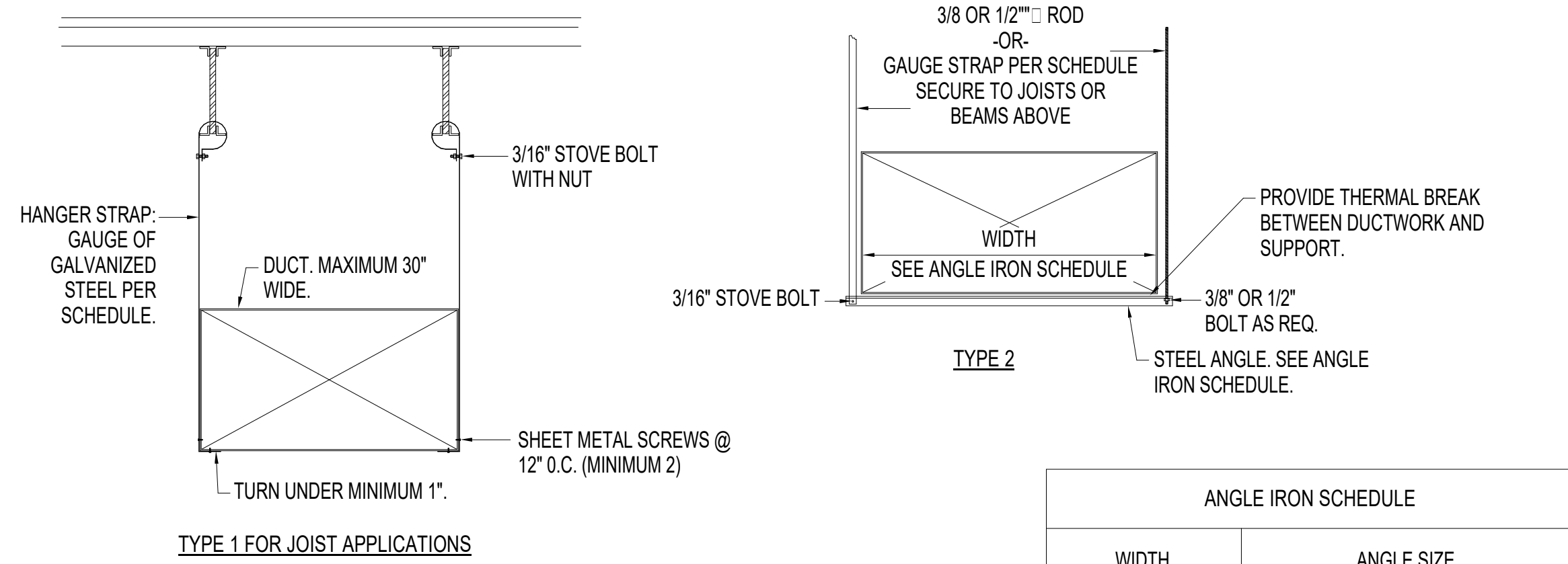
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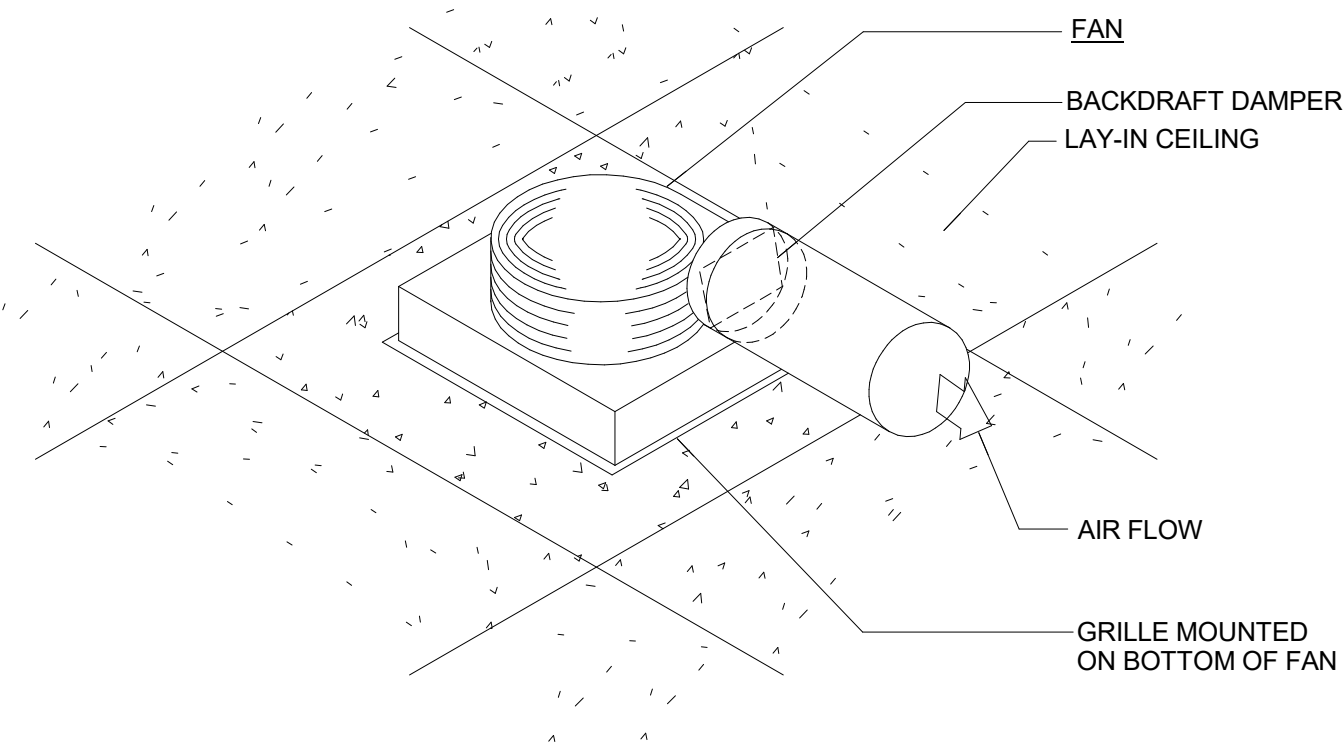
NOTE:

- WHERE SCHEDULE CONFLICTS WITH MORE STRINGENT SMACNA DUCT CONSTRUCTION STANDARD, SMACNA SHALL BE USED.
- MAINTAIN VAPOR BARRIER WHERE ANY SUPPORTS PENETRATE INSULATION.
- ALL DUCTWORK AND AIR DEVICES SHALL BE FASTENED IN ACCORDANCE WITH IMC 2018 & IBC 2018 REQUIREMENTS FOR SEISMIC ZONE D.
- DUCTWORK ONLY NEEDS BRACING WHEN THE DUCT HAS A CROSS-SECTION WITH 6 SQ.FT. OR LARGER OR WHEN THE DUCT WEIGHS MORE THAN 17 LBS PER LINEAR FOOT OR WHEN IT HAS AN IMPORTANCE FACTOR IP=1.5.

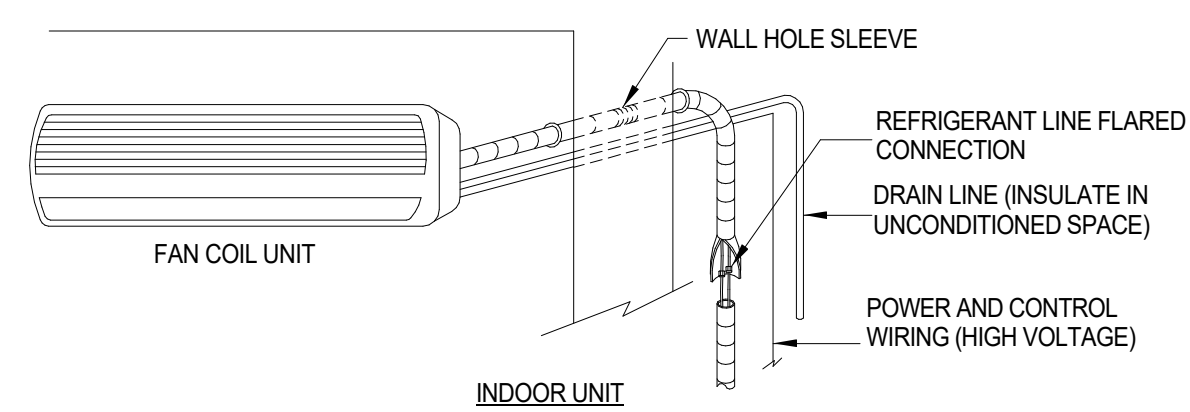
1 TYPICAL DUCT SUPPORT DETAILS (CONCEALED LOCATIONS)
M2 NOT TO SCALE

| ANGLE IRON SCHEDULE | |
|---------------------|------------------------|
| WIDTH | ANGLE SIZE |
| 31" THRU 42" | 1-1/2" x 1-1/2" x 1/8" |
| 43" THRU 60" | 1-1/2" x 1-1/2" x 1/8" |
| 61" THRU 84" | 2" x 2" x 1/4" |
| 85" & OVER | 2" x 2" x 1/4" |

| A/C DUCT SCHEDULE | | | | |
|--------------------------|-------|---------------------------|------------------------|-----------------------|
| 1/2 DUCT PERIMETER (P/2) | GAUGE | HANGERS | MAXIMUM HANGER SPACING | JOINTS |
| 30" | 26 | 1"-22 GAUGE | 10'-0" (TYPE 1) | FLAT "S" & DRIVE SLIP |
| 72" | 24 | 1"-18 GAUGE | 10'-0" (TYPE 1) | STANDING "S" |
| 96" | 22 | 1"-16 GAUGE OR 1/2" ROD | 10'-0" (TYPE 2) | STANDING "S" |
| 120" | 20 | 1.5"-18 GAUGE OR 1/2" ROD | 10'-0" (TYPE 2) | STANDING "SR" |
| 168" | 18 | 1.5"-16 GAUGE OR 1/2" ROD | 10'-0" (TYPE 2) | STANDING "SR" |

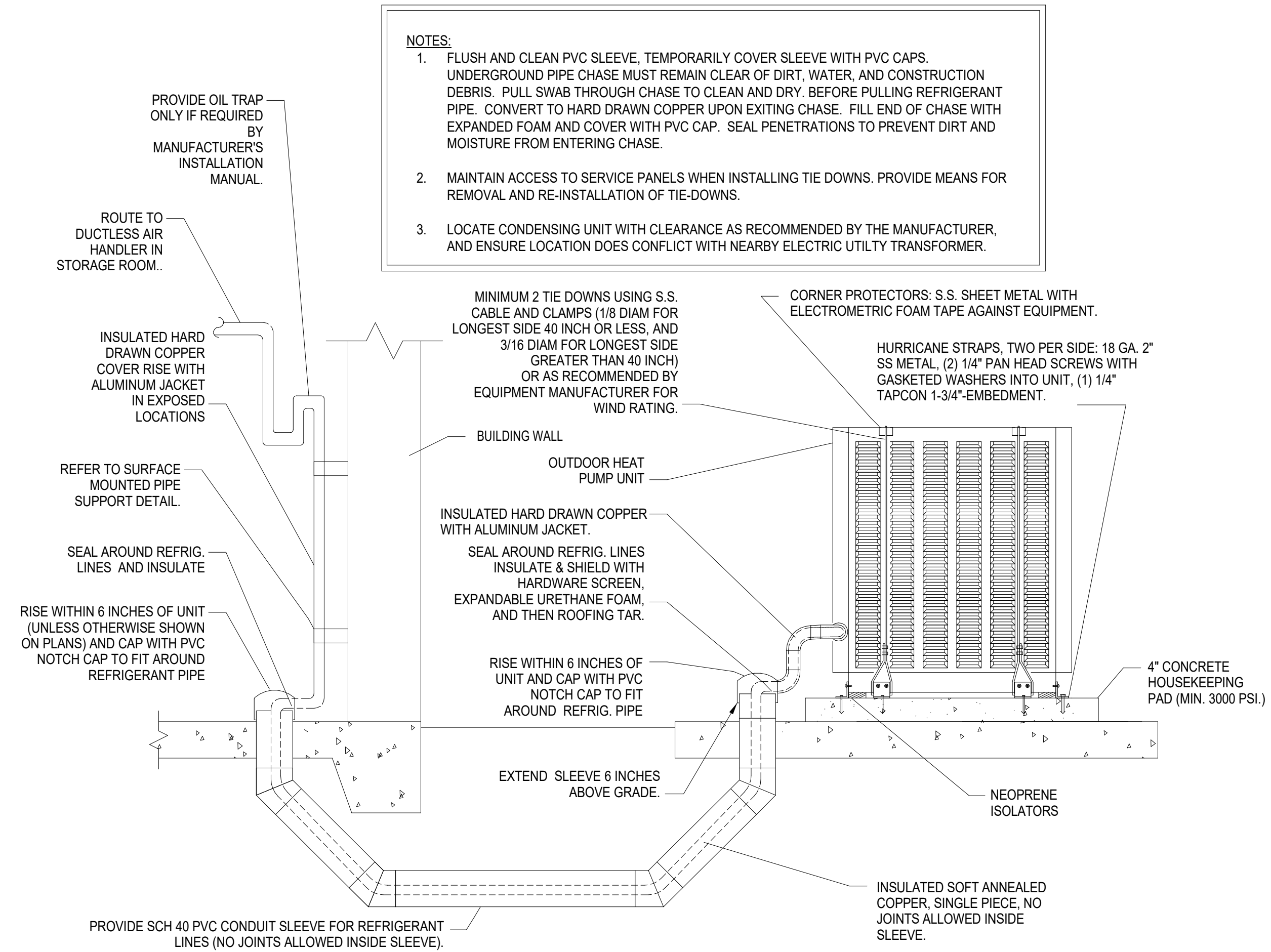


3 CABINET EXHAUST FAN DETAIL
M2 NOT TO SCALE



- NOTES:**
- MOUNTED UNIT PER MANUFACTURER SPECIFICATIONS.
 - REFER TO MANUFACTURER FOR MINIMUM INSTALLATION CLEARANCES.
 - MINI SPLIT HEAT PUMP SYSTEM TO BE INSTALLED ACCORDING TO ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL, MECHANICAL AND BUILDING CODES.

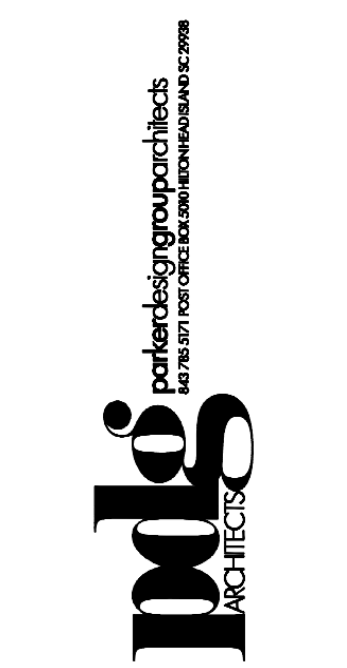
4 DUCTLESS HPU - INDOOR (WALL MOUNT) AND OUTDOOR UNIT DETAIL
M2 NOT TO SCALE



- NOTES:**
- FLUSH AND CLEAN PVC SLEEVE, TEMPORARILY COVER SLEEVE WITH PVC CAPS. UNDERGROUND PIPE CHASE MUST REMAIN CLEAR OF DIRT, WATER, AND CONSTRUCTION DEBRIS. PULL SWAB THROUGH CHASE TO CLEAN AND DRY, BEFORE PULLING REFRIGERANT PIPE. CONVERT TO HARD DRAWN COPPER UPON EXITING CHASE. FILL END OF CHASE WITH EXPANDED FOAM AND COVER WITH PVC CAP. SEAL PENETRATIONS TO PREVENT DIRT AND MOISTURE FROM ENTERING CHASE.
 - MAINTAIN ACCESS TO SERVICE PANELS WHEN INSTALLING TIE DOWNS. PROVIDE MEANS FOR REMOVAL AND RE-INSTALLATION OF TIE-DOWNS.
 - LOCATE CONDENSING UNIT WITH CLEARANCE AS RECOMMENDED BY THE MANUFACTURER, AND ENSURE LOCATION DOES NOT CONFLICT WITH NEARBY ELECTRIC UTILITY TRANSFORMER.

2 UNDERGROUND REFRIGERANT PIPE AND CONDENSING UNIT DETAIL
M2 NOT TO SCALE

V:\192.168.1.140\Dalton Engineering\Projects\2023\121 Southside Park\121 Southside Park\121 Southside Park\121 Southside Park.dwg, 9/12/2023 2:46:52 PM, owner
 THESE DRAWINGS AND THE DESIGN THEREON ARE THE PROPERTY OF DALON & FLOYD, INC. AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF THE ENGINEER / ARCHITECT AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION



OWNER: CITY OF BEAUFORT
 PROJECT TITLE: BEAUFORT, SC 29902
 SOUTHIDE PARK - PHASE I
 PLAYGROUND AREA IMPROVEMENTS

| NO. | DATE | DESCRIPTION | BY | CHECKED | DATE | DESCRIPTION | BY | CHECKED |
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| 2 | 10/16/23 | ISSUE FOR BID | CMD | CMD | 10/16/23 | ISSUE FOR BID | CMD | CMD |

DATE: 03/20/24 10:16:23
 DRAWN: TRD
 CHECKED: CMD
 M2

811
 Know what's below. Call before you dig.

DALON ENGINEERING
 2611 Southside Boulevard
 Beaufort, SC 29902
 Phone: 843-271-6011
 www.dalonengineering.com

| VOLTAGE: | | PH: 1 | | WIRE: 3 | | ENCLOSURE: NEMA 1 | | | | | | | |
|---------------------------|------|-----------|------|----------------|------|---------------------------|------|------|------|---------|------|-----------------------|-------------------------|
| BUSSING: | | 400 A CU | | ROOM: | | MOUNTING: SURFACE MOUNTED | | | | | | | |
| MAINS: | | 400 A MCB | | BRACING: | | GROUND BAR | | | | | | | |
| INCOMING: | | FROM: | | LOAD PER PHASE | | DESCRIPTION | | | | | | | |
| DESCRIPTION | POLE | CONDUIT | WIRE | GND | TRIP | CKT | TRIP | GND | WIRE | CONDUIT | POLE | DESCRIPTION | |
| EXISTING LTG CIRCUIT | 2 | 1/2 | 12 | 12 | 20 A | 1 | 0.60 | 0.10 | | 2 | 1 | CEILING FAN | |
| EXISTING LTG CIRCUIT | 2 | 1/2 | 12 | 12 | 20 A | 3 | | | | 4 | 1 | PARKING LOT CAMERA | |
| EXISTING LTG CIRCUIT | 2 | 1/2 | 12 | 12 | 20 A | 5 | 0.30 | 1.20 | | 6 | 1 | PLAYGROUND CAMERA | |
| EXISTING LTG CIRCUIT | 2 | 1/2 | 12 | 12 | 20 A | 7 | | | 0.30 | 0.36 | 8 | 1 | RECEPTACLE |
| EXISTING LTG CIRCUIT | 2 | 1/2 | 12 | 12 | 20 A | 9 | 0.00 | 1.50 | | 10 | 2 | EWB | |
| EXISTING GATE CIRCUIT | 2 | 1/2 | 12 | 12 | 20 A | 11 | | | 0.00 | 1.50 | 12 | 1 | WH-1 |
| RECEPTACLE | 1 | 1/2 | 12 | 12 | 20 A | 13 | 1.00 | 1.50 | | 14 | 1 | WH-2 | |
| RECEPTACLE | 1 | 1/2 | 12 | 12 | 20 A | 15 | | | 1.00 | 1.50 | 16 | 1 | LIGHTING |
| RECEPTACLE | 1 | 1/2 | 12 | 12 | 20 A | 17 | 0.20 | 0.26 | | 18 | 1 | REC. EXTERIOR #1 | |
| RECEPTACLE | 1 | 1/2 | 12 | 12 | 20 A | 19 | | | 0.20 | 1.92 | 20 | 1 | REC. EXTERIOR #2 |
| RECEPTACLE | 1 | 1/2 | 12 | 12 | 20 A | 21 | 0.20 | 1.92 | | 22 | 1 | REC. EXTERIOR #3 | |
| RV EQUIPMENT #1 | 1 | 1/2 | 10 | 10 | 30 A | 23 | | | 0.20 | 1.92 | 24 | 1 | REC. EXTERIOR #4 |
| RV EQUIPMENT #2 | 1 | 1/2 | 10 | 10 | 30 A | 25 | 2.88 | 1.92 | | 26 | 1 | PARKING LTG CKT #1 | |
| RV EQUIPMENT #3 | 1 | 1/2 | 10 | 10 | 30 A | 27 | | | 2.88 | 0.13 | 28 | 2 | MONUMENT PARK SIGN |
| PARKING LTG CKT #2 | 2 | 1/2 | 12 | 12 | 20 A | 29 | 2.88 | 0.13 | | 30 | 1 | REC. TELEPHONE BOARD | |
| HWRP | 1 | 1/2 | 12 | 12 | 20 A | 31 | | | 0.27 | 0.36 | 32 | 2 | HEAT PUMP |
| DSS-1 | 2 | 1/2 | 14 | 12 | 15 A | 33 | 0.05 | 1.80 | | 34 | 1 | REC. DISPLAY BOARD | |
| RECEPTACLE | 1 | 1/2 | 12 | 12 | 20 A | 35 | | | 0.05 | 0.00 | 40 | 1 | REC. BASE POLE WALKWAY |
| RECEPTACLE | 1 | 1/2 | 12 | 12 | 20 A | 37 | 0.54 | 1.62 | | 42 | 1 | REC. BASE POLE GARDEN | |
| GATE OPERATOR | 2 | 1/2 | 12 | 12 | 20 A | 39 | | | 0.18 | 0.72 | 44 | 1 | ASTRONOMICAL TIME CLOCK |
| | | | | | | 41 | 0.31 | | | 46 | 2 | S.P.D. | |
| | | | | | | 43 | | | | 48 | 1 | | |
| | | | | | | 45 | | | | 50 | 1 | | |
| | | | | | | 47 | | | | 51 | 1 | | |
| | | | | | | 49 | | | | 52 | 1 | | |
| | | | | | | 51 | | | | 54 | 1 | | |
| | | | | | | 53 | | | | | 2 | | |
| TOTAL PANEL LOAD (KVA/Ø): | | | | | | | 21.5 | | 18.1 | | | | |
| | | | | | | | | | 39.6 | | | | |

PANEL NOTES (ALSO SEE GENERAL PANEL NOTES THIS SHEET):

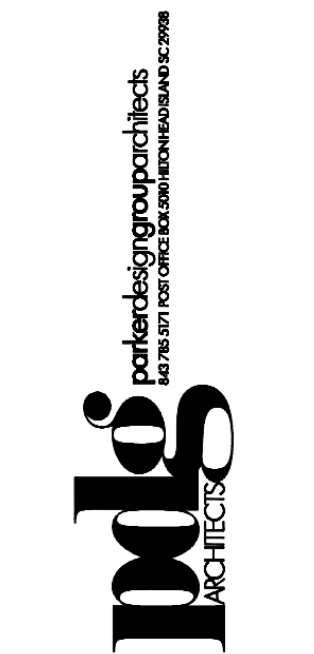
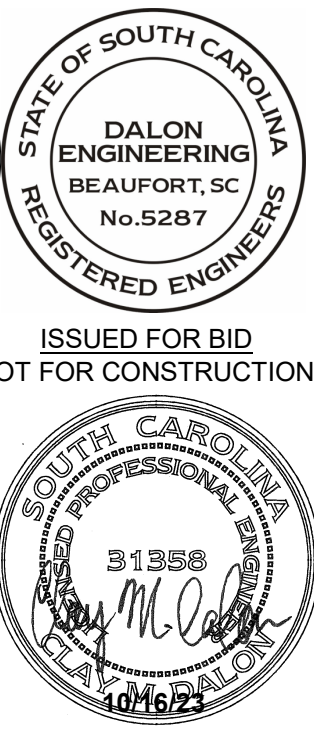
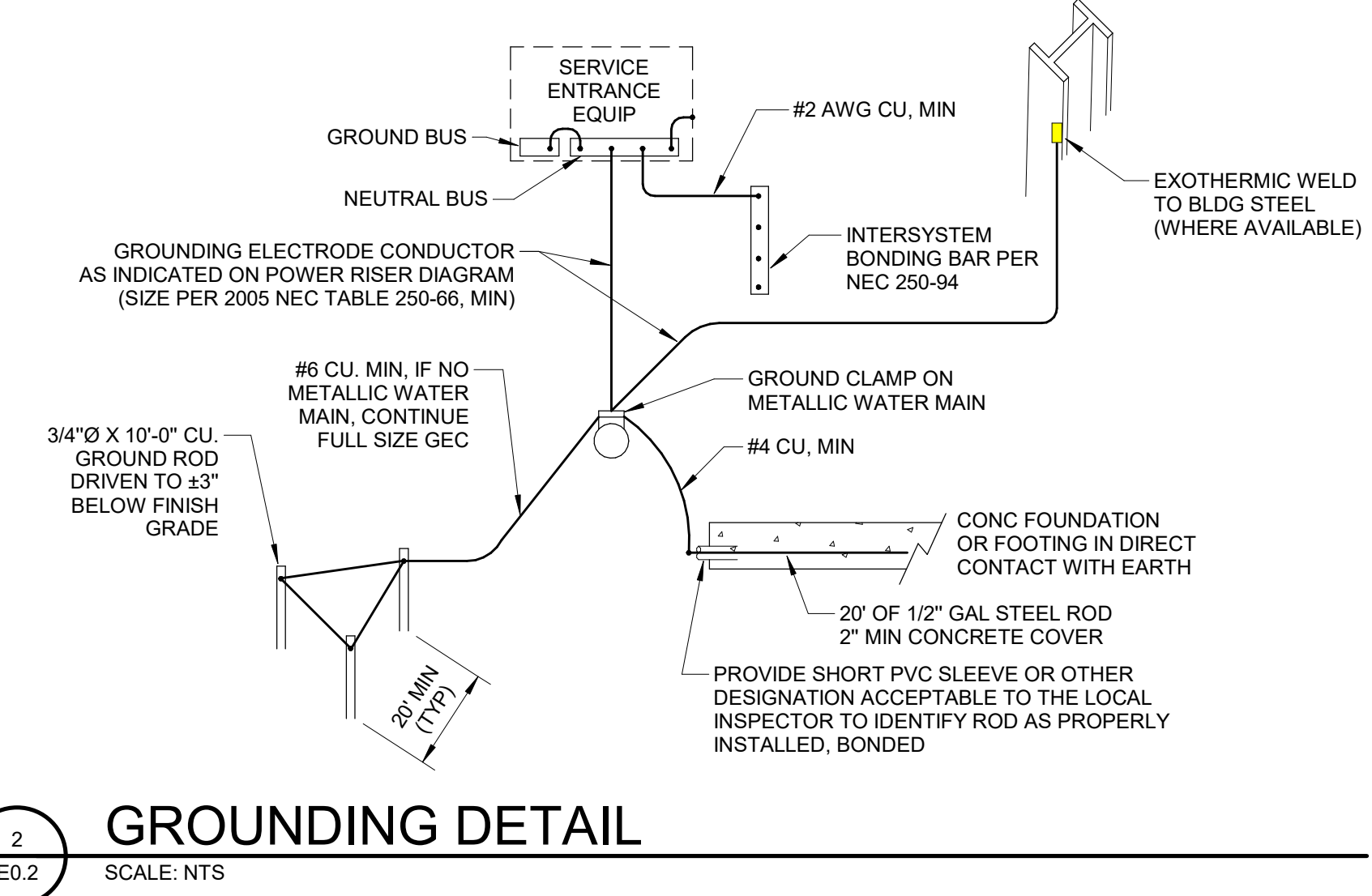
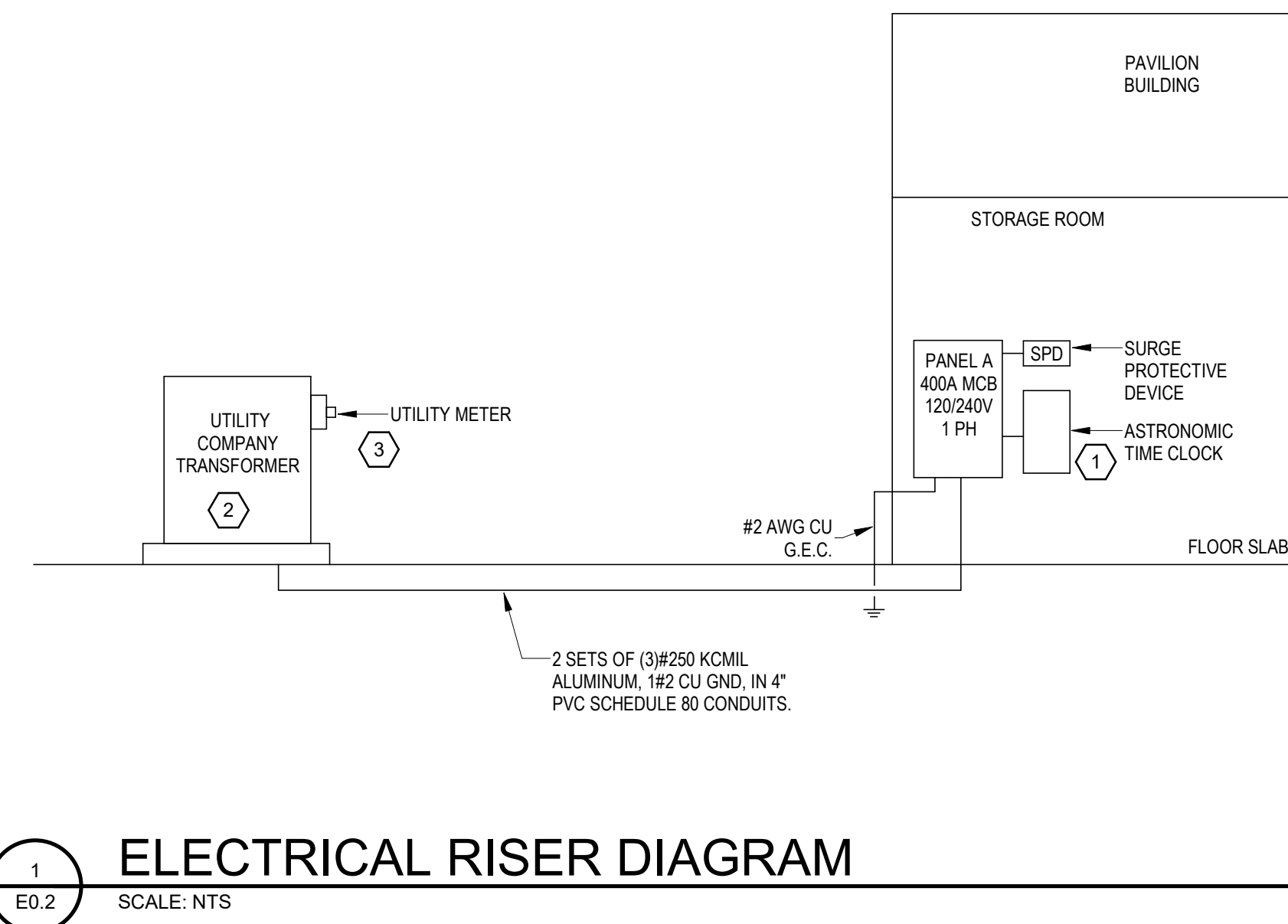
| LOAD TYPE | CONN LOAD | DEM FACT | DEM LOAD |
|-----------------|-----------|----------|----------|
| LIGHTING LOAD | 1.8 KVA | 1.25 | 2.2 KVA |
| RECEPTACLE LOAD | 19.6 KVA | NEC | 14.8 KVA |
| HVAC LOAD | 6.7 KVA | 1.00 | 6.7 KVA |
| EQUIPMENT LOAD | | 1.00 | |
| KITCHEN LOAD | | 0.65 | |
| TOTAL LOAD | 39.6 KVA | | 35.2 KVA |
| DEMAND AMPS | | | 146.8 A |

* OCPD FEATURES: 1. GFCI BREAKER 2. AFCI BREAKER 3. RED LOCK-ON 4. LOCK-OFF

| MARK | MANUFACTURER | CATALOG NUMBER | VOLTS | FIXTURE WATTS | MOUNTING | DESCRIPTION |
|------|-------------------|---|-------|---------------|-----------------------------------|--|
| M | SURE-LITES | LFXC50SD | 120 V | 3 W | CEILING | COMBINATION LED EXIT SIGHT WITH EMERGENCY LIGHT, BATTERY PACK, WHITE POLYCARBONATE, RED LETTERS, UL RATED FOR DAMP LOCATION. |
| M | SPECTRUM LIGHTING | GAMMA SERIES CW0406PC-20 L-30K-WD-EX-CL-WM-MB | 120 V | 20 W | WALL MOUNTED ON STRUCTURAL JOISTS | WALL MOUNTED, 4" ROUND DIRECT CYLINDER, BLACK, 3000K, 1100 LUMEN, WET LOCATION |
| N | OPUS | RB6-RD-SW80 -30K-10LM-U-10V-BW-AHZ-MT-HB | 120 V | 10 W | RECESSED | RONDO RB6, 6" DOWNLIGHT, DAMP LOCATION LISTED. |
| P | COOPER LIGHTING | 4ST1L4035R | 120 V | 20 W | PENDANT 10' AFF | METALUX ST1, LINEAR LED PENDANT STRIPLIGHT, 2000 LUMEN, 3500K, PROVIDE CHAIN AS NEEDED |

KEY NOTES:

- ASTRONOMIC 365-DAY 12-CIRCUIT ELECTRONIC CONTROL, 120-277 VAC, 50/60 HZ, 4-SPDT/2-DPDT, METAL ENCLOSURE, ETHERNET INCLUDED, 90000 SERIES, MODEL#ET91215CR BY INTERMATIC. SITE LIGHTING CIRCUITS AND MOTORIZED GATE SHALL BE CONNECTED VIA TIME CLOCK AND PROGRAMMED PER OWNER'S REQUEST.
- COORDINATE EXACT LOCATION OF UTILITY PAD MOUNTED TRANSFORMER, FEEDING THE PANEL INSIDE THE PAVILION BUILDING AND SITE LIGHTING, WITH THE UTILITY COMPANY. REFER TO SINGLE LINE DIAGRAM ON SHEET E0.2 FOR DETAILS. COORDINATE ALL WORK WITH THE UTILITY COMPANY AS REQUIRED.
- MOUNT UTILITY METER TO THE SIDE OF THE TRANSFORMER OR PROVIDE UNISTRUT AS REQUIRED TO MOUNT THE UTILITY METER. COORDINATE LOCATION OF UTILITY METER WITH THE UTILITY COMPANY.



CITY OF BEAUFORT
BEAUFORT, SC 29902
PROJECT TITLE
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

NOTES, SCHEDULES, & ABBREVIATIONS

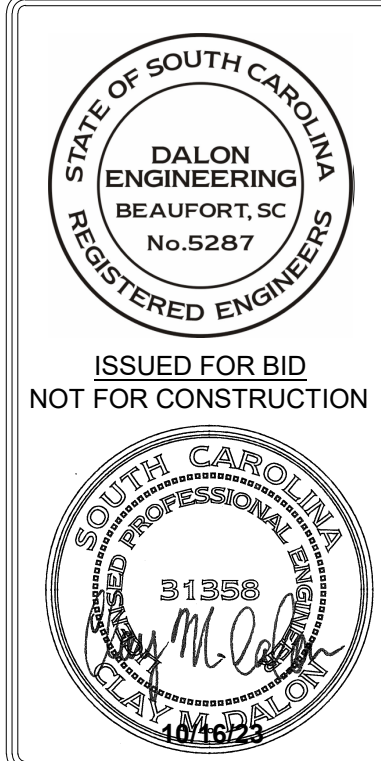
| NO. | DATE | DESCRIPTION |
|-----|----------|-----------------|
| 1 | 03/20/24 | ISSUED FOR BID |
| 2 | 10/16/23 | REVISED FOR BID |

E0.2



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OWNER
CITY OF BEAUFORT
BEAUFORT, SC 29902
PROJECT TITLE
SOUTHSIDE PARK - PHASE I
PLAYGROUND AREA IMPROVEMENTS

NOTES, LEGENDS, & SYMBOLS

| NO. | DATE | RELEASED | CHECKED | DATE |
|-----|------------|---------------------------------|---------|------------|
| 1 | 03/20/2024 | 100% SUBMITTAL | CMD | 03/20/2024 |
| 2 | 10/16/23 | 100% SUBMITTAL - ISSUED FOR BID | CMD | 10/16/23 |
| | | | TRD | |
| | | | CMD | |
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DATE: 03/20/24 00:10:16
JOB NO: 101623
SCALE: CMD
DRAWN: TRD
CHECKED: CMD
DATE: 10/16/23
JOB NO: 101623
SCALE: CMD
DRAWN: TRD
CHECKED: CMD

P0.1

PLUMBING SYMBOL LEGEND

| | |
|---------|--|
| --- | COLD WATER PIPE |
| ---- | HOT WATER PIPE |
| ---- | SOIL OR WASTE PIPE |
| ---- | VENT PIPE |
| ○ | TURNED UP |
| ⊖ | TURNED DOWN |
| + | TEE, OUTLET DOWN |
| ⊖ | TEE, OUTLET UP |
| T&P | TEMPERATURE AND PRESSURE RELIEF DRAIN PIPING |
| ED | EMERGENCY DRAIN PAN PIPING |
| ⊘ | GATE VALVE |
| ⊘ | PRESSURE RELIEF VALVE |
| ⊘ | BALL VALVE |
| FIXTURE | PLUMBING FIXTURE DESIGNATION (UNDER LINED) |

PLUMBING ABBREVIATIONS

| | |
|-----------|---------------------------|
| A/C | ABOVE CEILING |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| BFF | BELOW FINISHED FLOOR |
| BFG | BELOW FINISHED GRADE |
| BHP | BRAKE HORSEPOWER |
| BTU | BRITISH THERMAL UNIT |
| CO | CLEANOUT |
| CW | COLD WATER |
| CONN | CONNECTION |
| Ø | DIAMETER |
| DW | DOMESTIC WATER |
| DN | DOWN |
| DVV | DRAIN WASTE VENT |
| DFU | DRAINAGE FIXTURE UNIT |
| ED | EQUIPMENT DRAIN |
| ED | EXHAUST FAN |
| EA | EXHAUST AIR |
| EX | EXISTING |
| FL or FLR | FLOOR |
| FCO | FLOOR CLEANOUT |
| GPM | GALLONS PER MINUTE |
| GC | GENERAL CONTRACTOR |
| GCO | GRADE CLEANOUT |
| GW | GREASE WASTE |
| HW | HOT WATER |
| HWR | HOT WATER RETURN |
| IN | INCHES |
| IE | INVERT ELEVATION |
| MANUF | MANUFACTURER |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| OST | OVERFLOW STORM |
| PC | PLUMBING CONTRACTOR |
| SAN or S | SANITARY |
| ST | STORM |
| V | VENT |
| VTR | VENT TO ROOF |
| WCO | WALL CLEANOUT |
| W | WASTE |
| WTR | WATER |
| WSFU | WATER SUPPLY FIXTURE UNIT |
| w | WITH |
| wO | WITHOUT |

GENERAL SYMBOLS

| | |
|---|---------------------------------|
| ⊖ | PLAN OR DETAIL NO. SHEET NUMBER |
| 1 | KEYED NOTE TO PLAN |
| △ | REVISION NUMBER |
| N | NORTH ARROW |

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PLUMBING SPECIFICATIONS - CONT.

18. PROVIDE A MANUFACTURED EXPANSION DEVICE OR FABRICATED EXPANSION LOOP ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.

19. SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ARCHITECT PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY EQUIPMENT OR SYSTEMS. SHOP DRAWINGS SHALL INCLUDE: ALL EQUIPMENT SCHEDULED ON THE DRAWINGS; PLUMBING FIXTURES AND TRIM; WATER HEATERS AND ACCESSORIES.

20. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.

21. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE.

22. ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.

23. ALL PIPE PENETRATIONS OF FIRE AND/OR SMOKE-RATED ASSEMBLIES SHALL BE FIRE-STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY, GP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/STRIP, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR APPLICATION, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.

24. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO ANY BID SUBMISSION TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. THE CONTRACTOR SHALL MAKE ADJUSTMENTS IN ROUTING AND LOCATION AND, IF NECESSARY, IN SIZE, IN ORDER TO ACHIEVE THE SPECIFIED PERFORMANCE WITHOUT INCURRING ADDITIONS TO THE CONTRACT. WHERE EXISTING CONDITIONS DIFFER SIGNIFICANTLY ENOUGH TO AFFECT PRICING, THE CONTRACTOR SHALL NOTIFY THE BUILDING OWNER/MANAGER PRIOR TO BID SUBMISSION FOR A RESOLUTION. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

25. PERFORM CORING, CUTTING, FITTING REPAIRING AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT ON THIS PROJECT. HOWEVER, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBER SHALL BE DONE WITHOUT THE CONSENT OF THE ARCHITECT AND PROPERTY MANAGER. PROPERLY FILL, SEAL, FIREPROOF AND WATERPROOF ALL OPENINGS, SLEEVES, AND HOLES IN SLABS. FURNISH AND INSTALL ALL REQUIRED SLEEVES AND INSERTS.

26. ALL FLOOR PENETRATIONS THROUGH CONCRETE SLABS MUST BE CORE-BORED OR SAWCUT, SLEEVED, SEALED, FIRESTOPPED AND WATERPROOFED. ALL PIPING SLEEVES SHALL EXTEND A MINIMUM OF 4" ABOVE FINISHED FLOOR.

27. TESTING OF ALL WATER PIPING AND DRAINAGE PIPING SHALL FOLLOW 2018 SOUTH CAROLINA PLUMBING CODE AND ALL STATE AMENDMENTS.

28. PROTECTION OF THE WATER SUPPLY SYSTEM FOR THIS FACILITY SHALL MEET THE BACKFLOW PREVENTION DEVICE REQUIREMENTS OF THE 2018 SOUTH CAROLINA PLUMBING CODE.

29. PIPING IDENTIFICATION SHALL BE APPLIED TO THE FOLLOWING PIPES USING BRADY SELF-ADHESIVE TYPE WITH DIRECTIONAL TAPE: NATURAL GAS, HOT WATER, COLD WATER, HOT WATER RE-CIRCULATING, COMPRESSED AIR, PUMPED DISCHARGE, GREASE WASTE, SANITARY, VENT AND STORM PIPING.

30. THE SANITARY AND WASTE INVERT ELEVATIONS PROVIDED ARE FOR REFERENCE ONLY. EXISTING PLANS DO NOT INDICATE PIPE INVERT ELEVATIONS FOR EXISTING SANITARY AND WASTE PIPING SYSTEMS. THE CONTRACTOR SHALL VERIFY EXISTING PIPE INVERT ELEVATIONS AND PROVIDE A SHOP DRAWING INDICATING SITE CONDITIONS PRIOR TO CONSTRUCTION.

31. HEAT TRACE AND INSULATE ALL WATER CARRYING PIPING EXPOSED TO FREEZING CONDITIONS. HEAT TRACE SHALL BE RAYCHEM XL-TRACE OR APPROVED EQUAL. PROVIDE ALL COMPONENTS AND CONTROLS NECESSARY FOR A COMPLETE INSTALLATION. COORDINATE ELECTRICAL REQUIREMENTS AND CONNECTION LOCATIONS WITH ELECTRICAL CONTRACTOR. PROVIDE 3" DIAMETER PIPE AND SMALLER WITH HEAT TAPE WITH THE FOLLOWING OUTPUT REQUIREMENTS, 5 WATTS PER LINEAR FOOT.

33. PLASTIC PVC S.W.V PIPING, PEX WATER PIPING AND CPVC WATER PIPING MAY BE INSTALLED EXPOSED INSIDE THE OPEN CEILING SPACES BUT THE PIPING MUST BE COMPLETELY INSULATED WITH AN APPROVED PLENUM RATED FLAME/SMOKE 25 INSULATION.

PLUMBING SPECIFICATIONS

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL PLUMBING FIXTURES.

2. ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 SOUTH CAROLINA PLUMBING CODE AND ALL APPLICABLE AMENDMENTS.

3. DOMESTIC HOT, COLD & RE-CIRCULATING WATER PIPING ABOVE GRADE SHALL BE TYPE L HARD DRAWN COPPER TUBING CONFORMING TO ASTM B-88 WITH SWEAT JOINTS AND CAST OR WROUGHT FITTINGS. JOINTS SHALL BE MADE WITH LEAD FREE SOLDER, J.W. HARRIS "BRIDGIT" OR EQUAL. DOMESTIC COLD WATER SERVICE PIPING BELOW GRADE 2-1/2" AND SMALLER SHALL BE TYPE "K" COPPER TUBING WITH CAST OR WROUGHT FITTINGS AND SOLDERED JOINTS. DOMESTIC WATER BRANCH PIPING BELOW GRADE THROUGH CONCRETE SHALL BE PROTECTED WITH PLASTIC SLEEVES.

6. ALL ABOVE AND BELOW GROUND SANITARY, WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV PIPE AND FITTINGS WITH SOLVENT CEMENT JOINTS, PER ASTM D-1785 AND D-2665. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES AND CONFORM TO NSF-14. EXPOSED PVC PIPING SHALL NOT BE LOCATED IN OPEN RETURN AIR PLENUM SPACES. CONTRACTOR OPTION: SERVICE CLASS: HUBLESS CAST IRON SOIL PIPE WITH NEOPRENE COUPLINGS AND STAINLESS STEEL CLAMPS. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES. PVC PIPING SHALL NOT BE LOCATED IN OPEN RETURN AIR PLENUM SPACES.

7. ALL HOT, COLD & RE-CIRCULATING WATER PIPING ABOVE GRADE 2-1/2" AND SMALLER SHALL BE INSULATED WITH 1" NOMINAL THICKNESS FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER JACKET, OWENS-CORNING ASJ/SJLII OR EQUAL, AND TAPED JOINTS USING MATERIAL OF SAME MANUFACTURER. USE 1-1/2" INSULATION ON PIPING 3" AND LARGER. APPROVED ALTERNATE INSULATION MATERIAL WILL BE CONSIDERED. WATER PIPING INSULATION SHALL BE PLENUM RATED FLAME/SMOKE 25/50.

8. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. WATER PIPING SHALL BE HUNG USING COPPER LOOP HANGERS WITH INSULATION AND PIPE SADDLES OVER COPPER PIPING. SANITARY AND VENT PIPING SHALL BE HUNG USING GALVANIZED LOOP HANGERS FOR CAST IRON OR PVC PIPING.

9. WATER PIPING ROUTED IN EXTERIOR WALLS SHALL BE ROUTED ON THE HEATED SIDE (INSIDE) OF WALL INSULATION.

10. SANITARY AND DRAINAGE PIPING 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM. PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM, UNLESS SHOWN OTHERWISE ON THE PLANS. SLOPE GREASE WASTE BRANCH AT MINIMUM 3%.

11. TOPS OF ALL FLOOR DRAINS AND CLEAN OUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.

12. PLUMBING PIPING IS NOT TO BE INSTALLED IN ELECTRICAL ROOMS OR CLOSETS, TELEPHONE ROOMS, OR ELEVATOR EQUIPMENT ROOMS EXCEPT PIPING SERVING THAT SPECIFIC ROOM.

13. LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" FROM ACCESS PANELS, CEILING TILES, OR OTHER POINT OF ACCESS.

14. ALL COLD WATER, HOT WATER AND DRAIN PIPING AT HANDICAPPED FIXTURES SHALL BE INSULATED WITH HAND-LAY GUARD MODELS 102 AND 105 INSULATION KITS.

15. ALL EXPOSED PIPING PENETRATING CEILING AND WALLS SHALL BE INSTALLED WITH CHROME-PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE PROTECTED AS REQUIRED BY LOCAL CODE AUTHORITY.

16. PROVIDE WATER HAMMER ARRESTORS SIZED PER PDI SPECIFICATIONS ON ALL DOMESTIC WATER LINES WHERE NOTED ON THE DRAWINGS. NO WATER HAMMER ARRESTORS ARE REQUIRED IF PEX PIPING IS USED.

17. PROVIDE A BASE CLEAN OUT AT THE LOWEST LEVEL OF ALL SANITARY AND WASTE STACKS. RE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.

PLUMBING FIXTURE CALCULATION

| JOB NAME: | Southside Park | DATE: | 15-Aug-23 | | | | | |
|-----------------------------|----------------|-----------|-----------|------------|-------------|------------|-----------|-------------|
| JOB NUMBER: | 2023-121 | | | | | | | |
| STANDARD PLUMBING CODE | | | | | | | | |
| FIXTURE | WASTE FIX. | WATER | | # of Fix's | TOT. WASTE | TOT. WATER | | |
| TYPE | UNITS | CW (f.u.) | HW (f.u.) | TOT (f.u.) | (fx. units) | CW (f.u.) | HW (f.u.) | TOT (f.u.) |
| D.F. | 0.5 | 0.25 | N/A | 0.25 | 1 | 0.5 | 0.25 | 0.25 |
| FLOOR DRAIN | 1 | N/A | N/A | N/A | 2 | 2 | N/A | N/A |
| LAV. PUBLIC | 2 | 1.5 | 1.5 | 2 | 2 | 4 | 3 | 4 |
| MOP SINK | 2 | 2.25 | 2.25 | 3 | 1 | 2 | 2.25 | 3 |
| URINAL, 0.75" VALVE | 4 | 5 | N/A | 5 | 1 | 4 | 5 | 5 |
| W.C., PUBLIC, VALVE | 6 | 10 | N/A | 10 | 3 | 18 | 30 | 30 |
| HOSE BIBB | N/A | 2 | N/A | 2 | 1 | N/A | 0 | 0 |
| TOTALS: | | | | | 11 | 30.5 | 40.5 | 42.25 |
| PIPE SIZE ENTERING/LEAVING: | | | | | | 4 inch | 1-1/2" | 3/4" |
| | | | | | | | | FLUSH VALVE |

GENERAL PLUMBING NOTES

1. IN THE PREPARATION OF THESE PLANS, THE ENGINEER HAS USED CERTAIN ABBREVIATIONS, CONVENTIONS, AND SYMBOLS, THE MEANING OF WHICH ARE ILLUSTRATED AND EXPLAINED WITHIN THE LEGEND.

2. PLANS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO INDICATE CAPACITY, SIZE, LOCATION, DIRECTION AND GENERAL ARRANGEMENT, BUT NOT EXACT DETAILS OF CONSTRUCTION. THE FACT THAT ONLY CERTAIN FEATURES OF THE INSTALLATION ARE INDICATED MUST NOT BE TAKEN TO MEAN THAT OTHER FEATURES WILL NOT BE REQUIRED.

3. COORDINATE WITH THE OTHER TRADES TO ENSURE THAT EACH TRADE SHALL HAVE SUFFICIENT SPACE TO INSTALL THEIR EQUIPMENT (DUCTWORK, PIPING, ELECTRICAL WORK, ETC.).

4. ONCE THE PIPING HAS ENTERED THE BUILDING FROM BELOW THE FLOOR SLAB, PIPING SHALL BE RUN ABOVE THE CEILING UNLESS NOTED OR INDICATED OTHERWISE.

5. SHOP DRAWING SUBMITTALS ARE ONLY REVIEWED FOR GENERAL CONFORMANCE WITH THE INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR MUST REVIEW AND APPROVE THE SHOP DRAWINGS PRIOR TO THEIR SUBMITTAL TO THE ARCHITECT/ENGINEER. SUBMITTALS WHICH DO NOT CONTAIN THE CONTRACTOR'S SHOP DRAWING STAMP SHALL BE RETURNED WITHOUT REVIEW. ANY REQUESTED CHANGES TO THE CONTRACT DOCUMENTS SHALL BE COMMUNICATED IN WRITING PRIOR TO SUBMITTING THE SHOP DRAWINGS AND CLOUDED ON THE SHOP DRAWINGS.

6. VERIFY ALL DIMENSIONS FROM ARCHITECTURAL PLANS AND FIELD DIMENSIONS.

7. ALL RISES AND DROPS IN PIPING ARE NOT NECESSARILY SHOWN.

8. PROVIDE STOP OR ANGLE VALVES ON EACH WATER CONNECTION TO EACH PLUMBING FIXTURE.

9. PROVIDE ALL STRUCTURAL MEMBERS, SUPPORT BRACKETS, FLASHING, HARDWARE, ETC. REQUIRED TO INSTALL A COMPLETE SYSTEM.

10. PROVIDE CHROME PLATED ESCUTCHEON PLATES AT ALL EXPOSED WALL PENETRATIONS AND CEILING PENETRATIONS.

11. PROVIDE CLEANOUTS ON SANITARY LINES AND CONDENSATE DRAIN LINES AS REQUIRED BY CODE.

12. PROVIDE ACCESS PANELS FOR ALL SHUT-OFF VALVES LOCATED ABOVE GYPSUM BOARD CEILINGS. COORDINATE WITH GENERAL CONTRACTOR.

13. HORIZONTALLY RUNNING PIPE AND FITTINGS SHALL NOT BE ALLOWED WITHIN ELEVATED SLABS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

PLUMBING DRAINS & SPECIALTY

UNLESS OTHERWISE INDICATED NUMBERS ARE JAY R. SMITH. EQUAL PRODUCTS: WATTS, ZURN, JOSAM, SOUX CHIEF AND WADE.

FD-1 FLOOR DRAINS-GENERAL/RESTROOMS:
JAY R. SMITH FIG. 2005-A6-P-94 C.I. FLOOR DRAIN WITH 6" DIAMETER NICKEL BRONZE STRAINER, SPEEDI-SET OUTLET CONNECTION AND TRAP PRIMER CONNECTION.

NFWH NON-FREEZE WALL HYDRANT:
WOODFORD B65 NON-FREEZE AUTOMATIC DRAINING WALL HYDRANT WITH RECESSED BOX AND COVER, HOSE CONNECTION, INTEGRAL VACUUM BREAKER.

WHA - WATER HAMMER ARRESTORS:
JAY R. SMITH 5000 SERIES ALL STAINLESS STEEL "HYDROTROLS". INSTALL IN AN UPRIGHT POSITION AT ALL FLUSH VALVES, AND OTHER QUICK CLOSING VALVES. LOCATE AND SIZE AS INDICATED ON DRAWINGS OR IN ACCORDANCE WITH PDI STANDARD WH-201.

COTG - EXTERIOR UNSURFACED AREAS:
JAY R. SMITH FIG. 4261-U C.I. FLANGED HOUSING WITH HEAVY DUTY C.I. COVER, LIFTING DEVICE, GASKET SEAL THREADED PLUG, V.P. SCREWS IN COVER. PROVIDE 24" x 12" CONCRETE PAD FLUSH WITH SURFACE.

TP - TRAP PRIMER:
PROVIDE WATER SAVER FD TRAP PRIMER ZURN MODEL Z-1022 OR SIMILAR PRODUCT. PROVIDE 1/2" PEX TRAP PRIMER LINE BEHIND WALL TO FLOOR DRAIN WITH NO JOINTS BELOW THE FLOOR SLAB.

PRV - PRESSURE REDUCING VALVE:
PRESSURE REDUCING VALVE WATTS MODEL#LF-223. SET WATER DELIVERY PRESSURE AT 50 PSI. THE PRV MAY BE OMITTED IF THE WATER SUPPLY PRESSURE IS LESS THAN 60 PSI.

HWRP - HOT WATER RECIRCULATION PUMP:
TACO IL-005, INLINE CIRCULATOR PUMP, 2 GPM @ 8 FT HEAD. 115V/1PH/ 0.52 AMPS. PROVIDE AQUASTAT WITH 24HR/7DAY TIMER SET TO MAINTAIN LOOP TEMPERATURE WITHIN 10 DEG F.

ELECTRIC WATER HEATER

| MARK | FIXTURE | CAPACITY (GAL) | POWER INPUT (KW) | ELEC | STORAGE TEMP (F) | RECOVERY CAPACITY | MANUFACTURER / MODEL | REMARKS |
|------|-----------------------------------|----------------|------------------|-----------------|------------------|-------------------|-----------------------|---------|
| EVH | ELECTRIC WATER HEATER - TANK TYPE | 15 | 3.0 | 240V 1PH / 60Hz | 120 | 15 GPH @ 90° RISE | AO SMITH / DEL-15-3.0 | 1-4 |

NOTES:

- ALL UNITS SHALL MEET ASHRAE 90-75 AND ALL LOCAL CODE REQUIREMENTS.
- PROVIDE LOW-BOY WATER HEATER MODEL.
- SEE INSTALLATION DETAIL ON SHEET P0.1.
- PROVIDE VACUUM BREAKER FOR COLD WATER SUPPLY TO WATER HEATER, PER CODE.
- PROVIDE WATER HEATER STAND FOR MOUNTING ABOVE MOP SINK.

PLUMBING FIXTURE SPECIFICATION

CONTRACTOR SHALL PROVIDE FIXTURE SUBMITTAL FOR APPROVAL OF ALTERNATE PRODUCTS, ACCEPTABLE EQUAL PRODUCTS: TOTO, KOHLER, AMERICAN STANDARD, CRANE, ELJER, OLSONITE, DELTA, ELKAY, SYMMONS, BRADLEY, CENTOCO, FIAT, STERN-WILLIAMS, CHICAGO FAUCET, ZURN, JR SMITH, MOEN, SIOUX CHIEF, T&S BRASS, CHURCH, BENEKE.

WC - WATER CLOSET - ADA - FLOOR MOUNTED - FLUSH VALVE - 1.28 GPF:
AMERICAN STANDARD MODEL NO. 3461.528 MADERA FLOWISE ADA, WHITE VITREOUS CHINA TOILET, EVERCLEAN, ELONGATED SIPHON JET ACTION, 16.5" HIGH BOWL, TWO BOLT CAPS, AMERICAN STANDARD SELECTRONIC 6060.121.002 SENSOR OPERATED FLUSH VALVE, BATTERY POWERED, 1.28 GPF, AND AMERICAN STANDARD SEAT 5901.100 WHITE SOLID PLASTIC OPEN FRONT HEAVY DUTY SEAT.

UR - URINAL - ADA - FLUSH VALVE - 0.125 GPF:
AMERICAN STANDARD WASHBROOK #6590.503, 0.125 GPF TOP SPUD URINAL, VITREOUS CHINA, WALL HUNG, MOUNT AT ADA HEIGHT, WASHOUT FLUSH ACTION, FLUSHING RIM, 3/4" TOP SPUD, 2" P-TRAP OUTLET CONNECTION, AMERICAN STANDARD #6063013.002, SENSOR OPERATED FLUSH VALVE, BATTERY POWERED, CHROME PLATED, 0.125 GPF, AND VACUUM BREAKER. PROVIDE STEEL HANGER MOUNTING BRACKETS. MOUNT URINAL AT ADA HEIGHT.

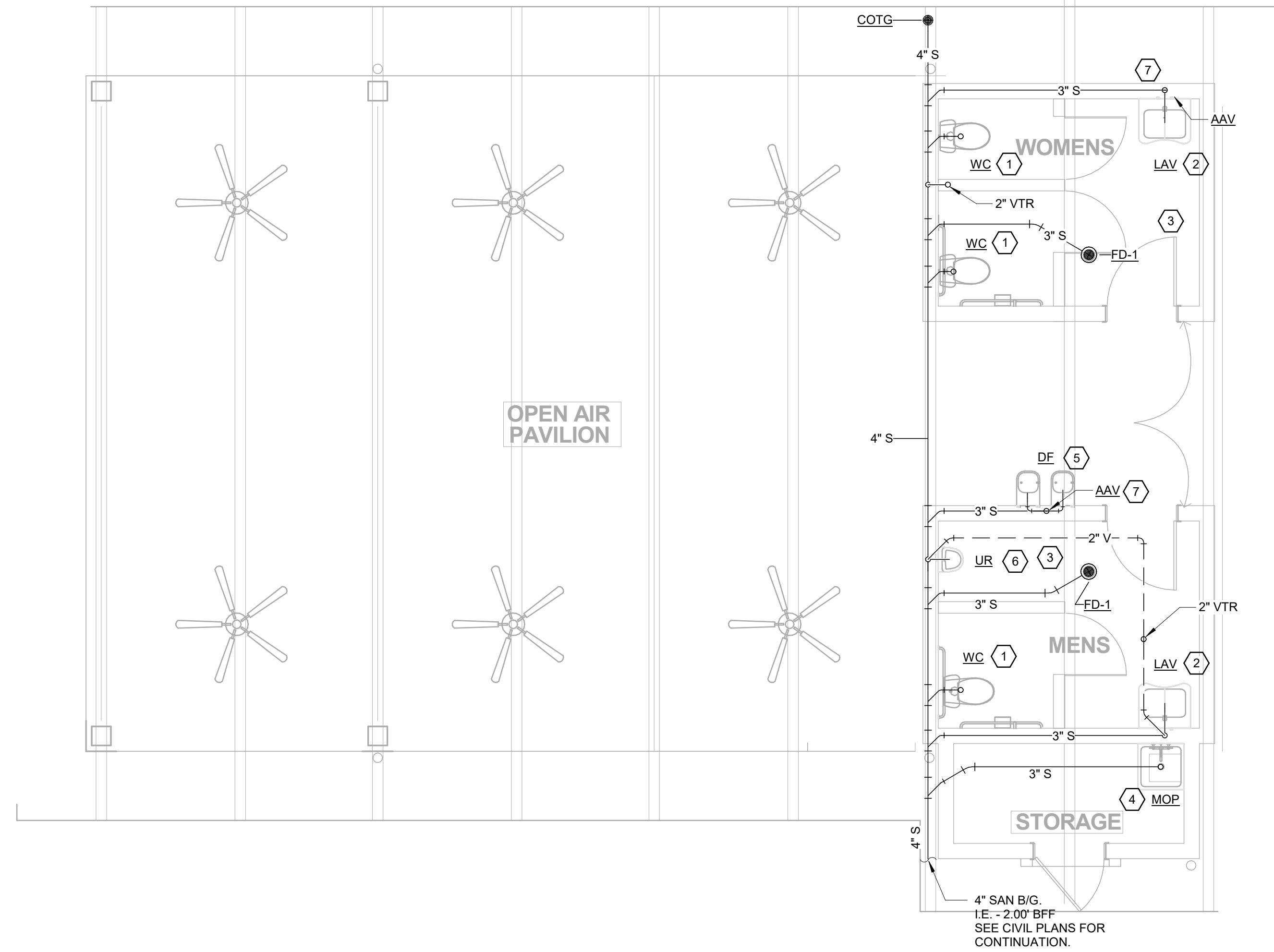
LAV - LAVATORY - ADA WALL MOUNT SINK - 1.5 GPM - WHITE CENTERSET LAVATORY:
AMERICAN STANDARD MODEL# LUCERNE 0355.012 WALL HUNG LAVATORY, FRONT OVERFLOW DRAIN AND GRID STRAINER, LAVATORY FAUCET DELTA MODEL#591T1220 ELECTRONIC SENSOR OPERATED, BATTERY POWERED, SOLID BRASS CHROME PLATED FAUCET, 4" CENTERSET, 1.5 GPM. MCGUIRE (#MCT125085) 1-1/4" P-TRAP, 17 GA. TUBULAR BRASS BODY WITH BRASS SLIP NUT, CLEANOUT, DEEP BOX FLANGE ESCUTCHEON. PROVIDE HYDRAPRO STAINLESS STEEL BRAIDED RISER HOSES, PROVIDE BRASSCRAFT QUARTER-TURN ANGLE STOP WITH CHROME PLATED ESCUTCHEON. MCGUIRE PROWRAP #PW2000WC VANDAL-RESISTANT SANITARY COVERING. PROVIDE STEEL HANGER MOUNTING BRACKETS.

MOP MOP SINK - FLOOR MOUNT :
24"x24"x12" MOLDED MOP RECEPTOR, 3" WASTE OUTLET, STEARN WILLIAMS MODEL SB-900, WALL HUNG FAUCET JUST MANUFACTURING FAUCET MODEL JVB-1200, 5FT HOSE, MOP HANGER BRACKET, STAINLESS STEEL BACKPLASH.

DF - DRINKING FOUNTAIN - ADA:
ELKAY MODEL #EMABFTLDDLC, BILEVEL, NON-REFRIGERATED, SURFACE MOUNTED MECHANICAL BOTTLE FILLER ELKAY MODEL#EMASM.

V:\192.168.1.140\Dalton Engineering\Projects\2023\Projects\2023-121 Southside Park\PF3 - Design Drawings\Architectural\23-121 Pavilion Tileblock\Site Title Block.dwg, 9/12/2023 2:46:52 PM, owner
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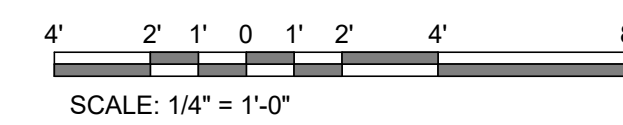
NOTES:

- SEE PIPING RISER DIAGRAM ON SHEET P3 FOR PIPING SIZES NOT SHOWN ON THE FLOOR PLAN FOR DRAWING CLARITY.
- TERMINATE VTR A MINIMUM OF 13'-0" AFG.

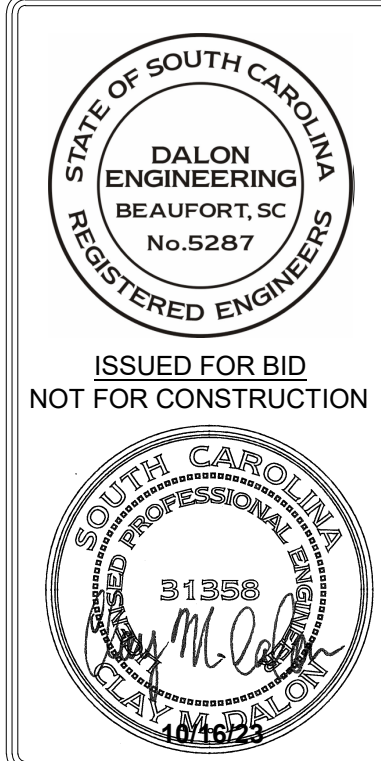
KEYED NOTES:

- 3" SAN TO WATER CLOSET
- 2" SAN TO LAVATORY.
- 3" SAN TO FLOOR DRAIN.
- 3" SAN TO MOP SINK.
- 2" SAN TO DRINKING FOUNTAIN.
- 2" SAN TO URINAL.
- PROVIDE AIR ADMITTANCE VALVE WITH ACCESS BOX. STUDOR MODEL #20381.

1 S, W&V Floor Plan
 P1.1 SCALE: 1/4" = 1'-0"



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PLAYGROUND AREA IMPROVEMENTS

DRAWING TITLE
S, W&V FLOOR PLAN

| NO. | DATE | DESCRIPTION | BY | CHECKED |
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| 3 | | | TRD | CMD |
| 4 | | | CMD | CMD |
| 5 | | | CMD | CMD |

P1.1

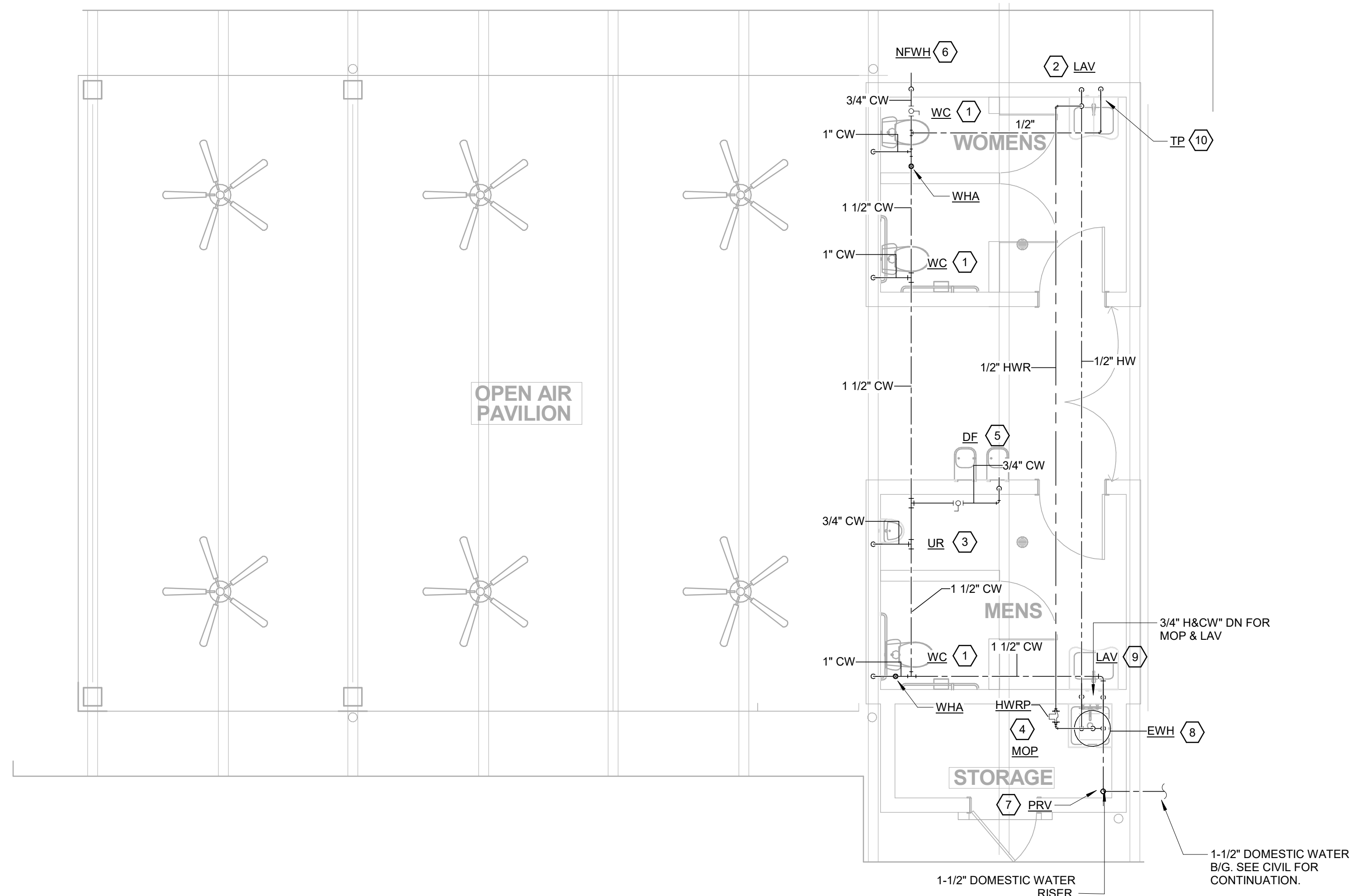
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NOTES:

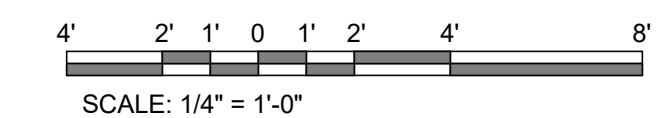
1. PROVIDE THERMOSTATIC MIXING VALVES AT ALL LAVATORIES AND HAND WASHING SINKS. SET TEMPERED HW DELIVERY FOR 105°F.
2. THE WATER PIPING LOCATED INSIDE EXTERIOR WALL CAVITIES SHALL BE PLACED ON THE WARM SIDE OF THE BUILDING WALL INSULATION TO PREVENT FREEZING.

KEYED NOTES:

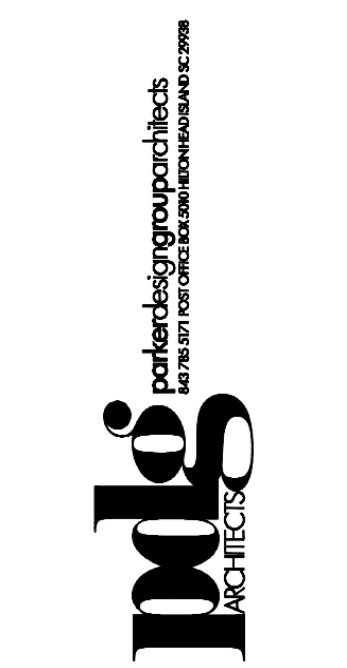
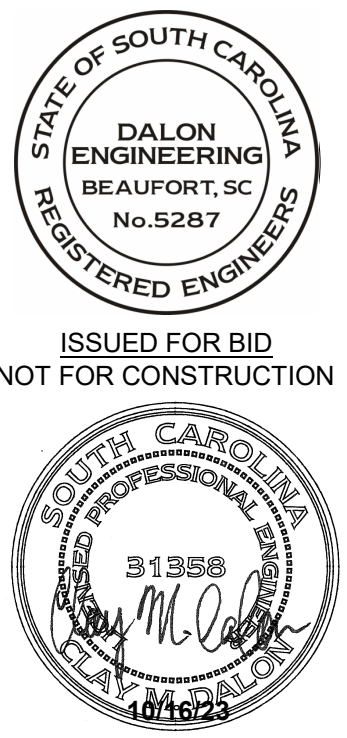
1. 1" CW DN IN WALL TO WATER CLOSET.
2. 1/2" H&CW DN IN WALL TO LAVATORY. COORDINATE WATER LINE ROUTING INSIDE SPACE BETWEEN LOUVER SECTIONS. REFER TO ARCHITECTURAL DETAILS FOR MORE INFORMATION.
3. 3/4" CW DN IN WALL TO URINAL.
4. STUB OUT 3/4" H&CW FOR MOP SINK.
5. 3/4" CW DN IN WALL TO DRINKING FOUNTAINS.
6. 3/4" CW DN IN WALL TO NON-FREEZE WALL HYDRANT. COORDINATE WATER LINE ROUTING INSIDE SPACE BETWEEN LOUVER SECTIONS. REFER TO ARCHITECTURAL DETAILS FOR MORE INFORMATION.
7. PROVIDE BUILDING WATER SUPPLY RISER WITH A SHUT-OFF VALVE AND PRESSURE REDUCING VALVE. THE PRV MAY OMIT THE PRV IF THE WATER SUPPLY PRESSURE IS LESS THAN 60 PSI. FIELD VERIFY SITE WATER PRESSURE.
8. MOUNT EWH, ELECTRIC WATER HEATER, ON WATER HEATER STAND ABOVE THE MOP SINK.
9. STUB OUT 1/2" H&CW FOR LAVATORY.
10. PROVIDE 1/2" CW TO TRAP PRIMER UNDERNEATH LAVATORY. SEE DETAIL ON SHEET P2.



1 Water Floor Plan
 P1.2 SCALE: 1/4" = 1'-0"



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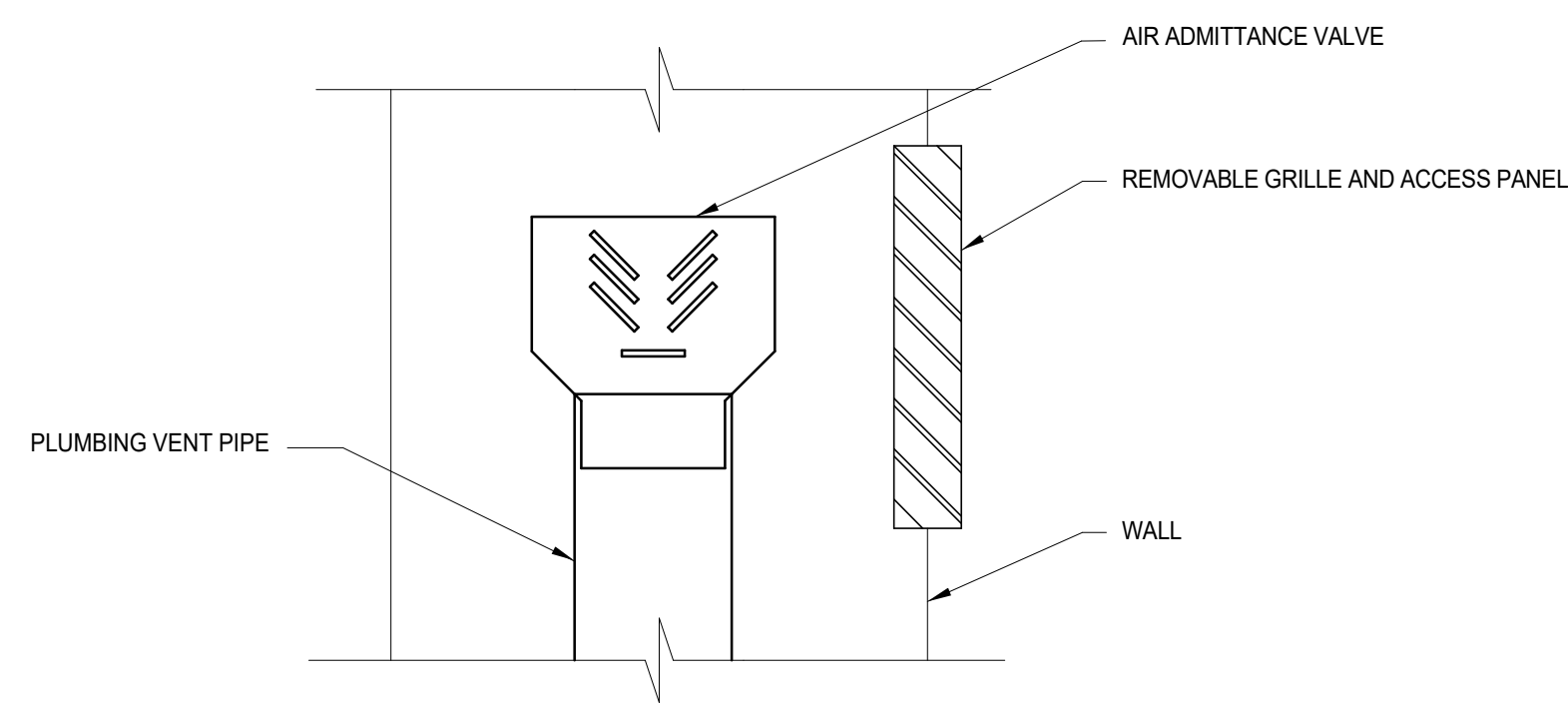
WATER FLOOR PLAN

| NO. | DATE | DESCRIPTION |
|-----|----------|---------------------------------|
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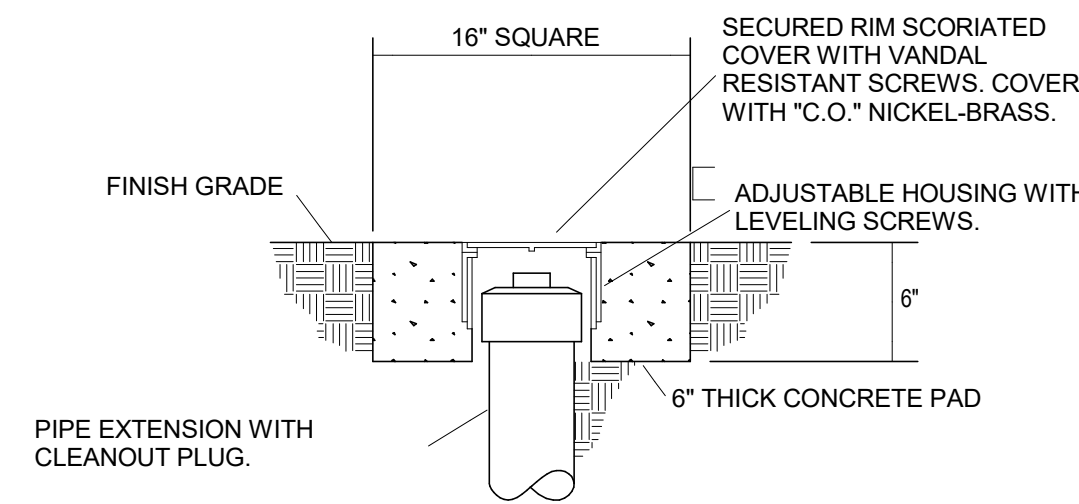
| NO. | DATE | CHECKED | DATE | DESCRIPTION |
|-----|----------|---------|----------|---------------------------------|
| 1 | 03/20/24 | CMD | 08/09/23 | ISSUED FOR BID |
| 2 | 10/16/23 | CMD | 10/19/23 | 100% SUBMITTAL - ISSUED FOR BID |

| NO. | DATE | NO. | DATE |
|-----|----------|-----|----------|
| 1 | 03/20/24 | 1 | 08/09/23 |
| 2 | 10/16/23 | 2 | 10/19/23 |

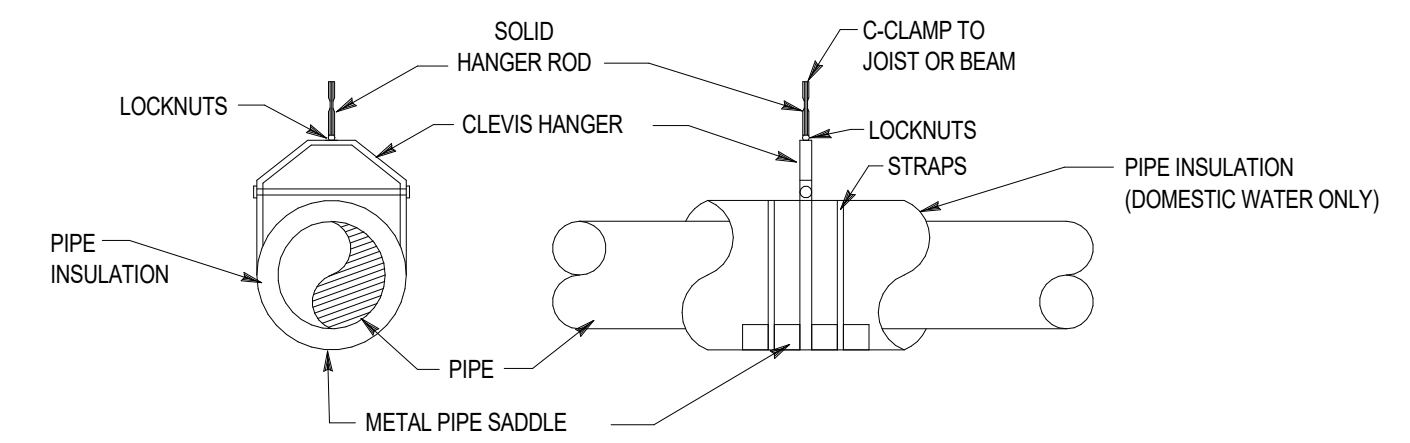
DRAWN BY: TRD
 CHECKED BY: CMD
 P1.2



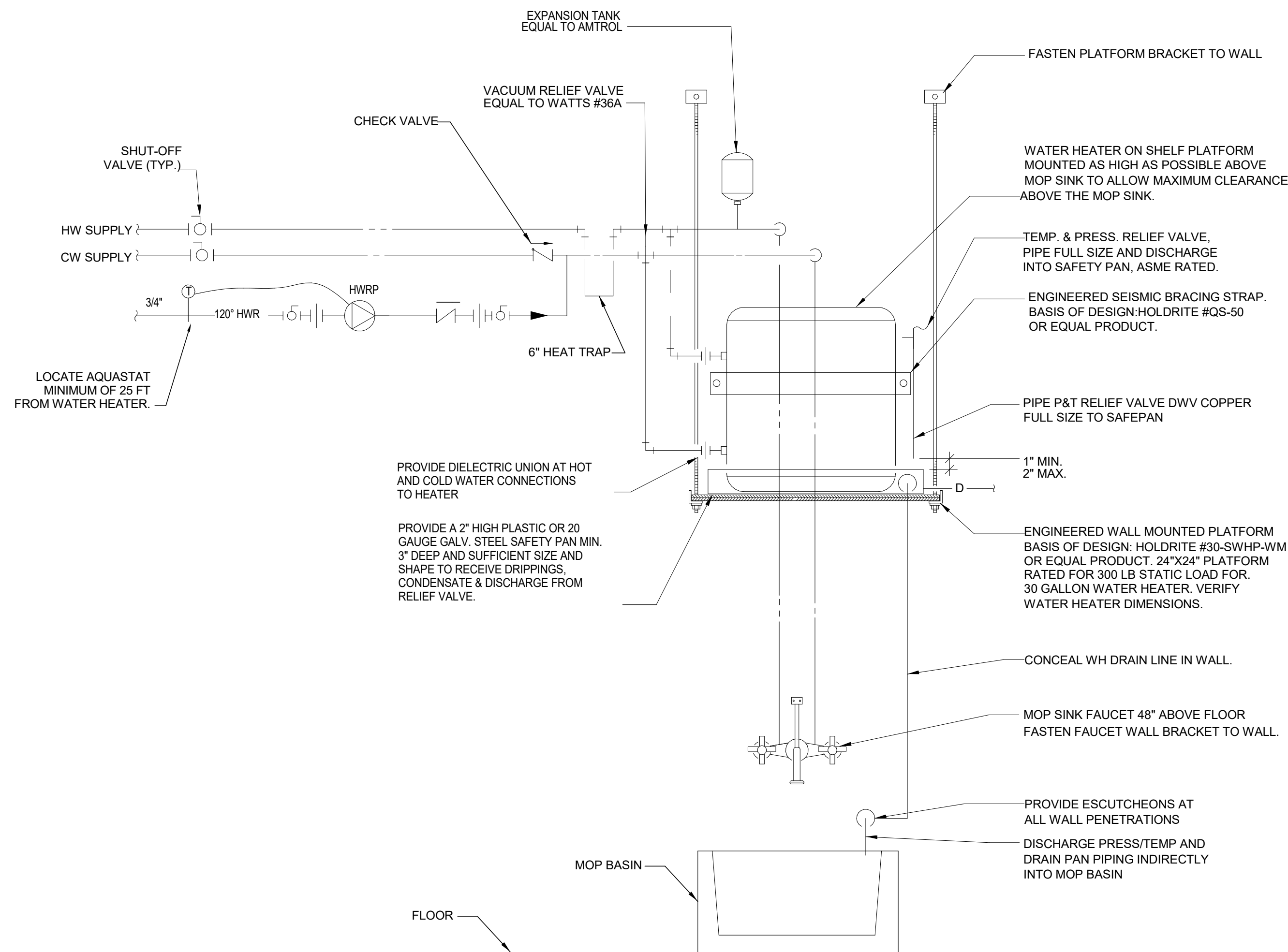
4 AIR ADMITTANCE VALVE DETAIL
P2 NOT TO SCALE



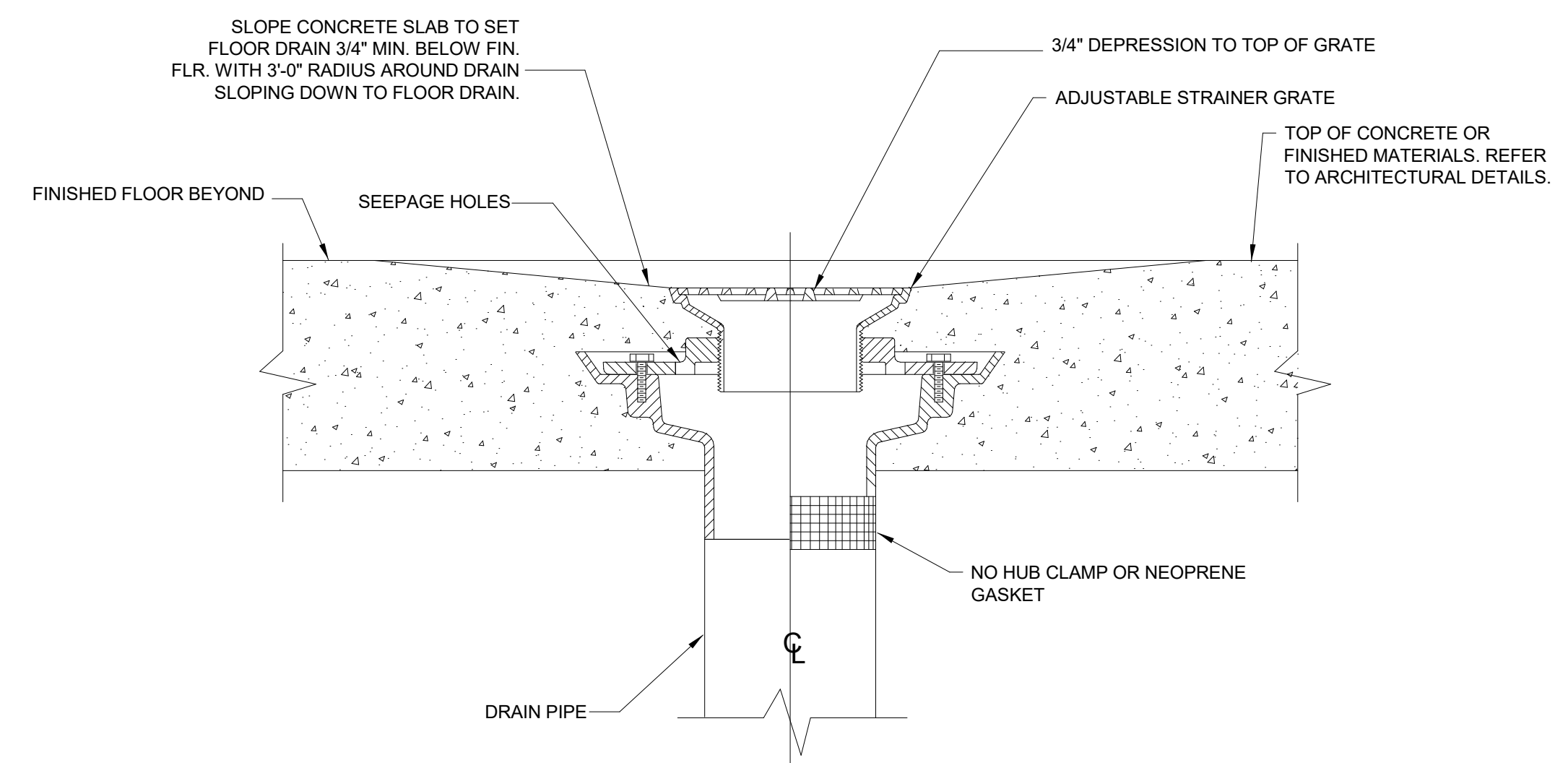
2 CLEANOUT TO GRADE
P2 NOT TO SCALE



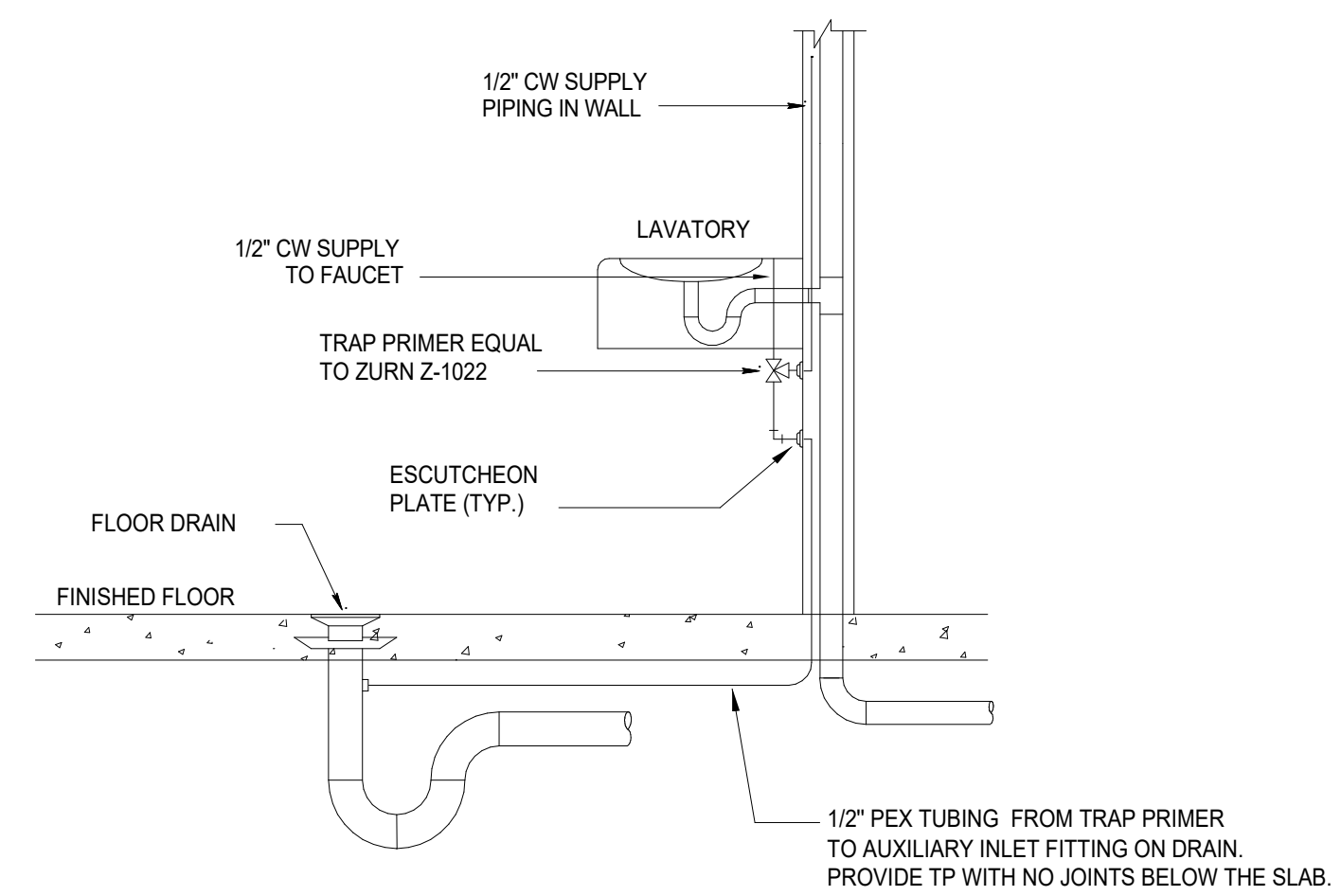
1 PIPE HANGER DETAIL
P2 NOT TO SCALE



5 ELECTRIC WATER HEATER DETAIL
P2 NOT TO SCALE

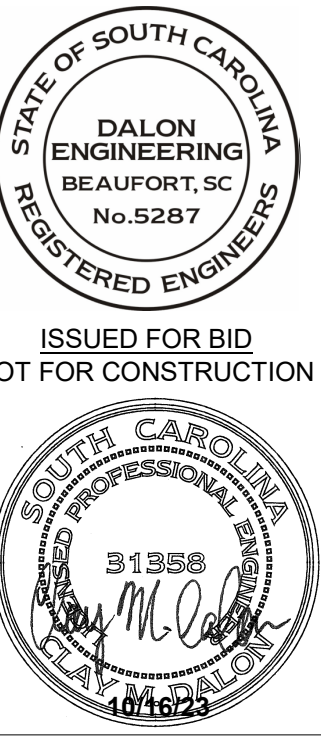


3 FLOOR DRAIN (FD-1) DETAIL
P2 NOT TO SCALE



6 FLOOR DRAIN TRAP PRIMER DETAIL
P2 NOT TO SCALE

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DETAILS

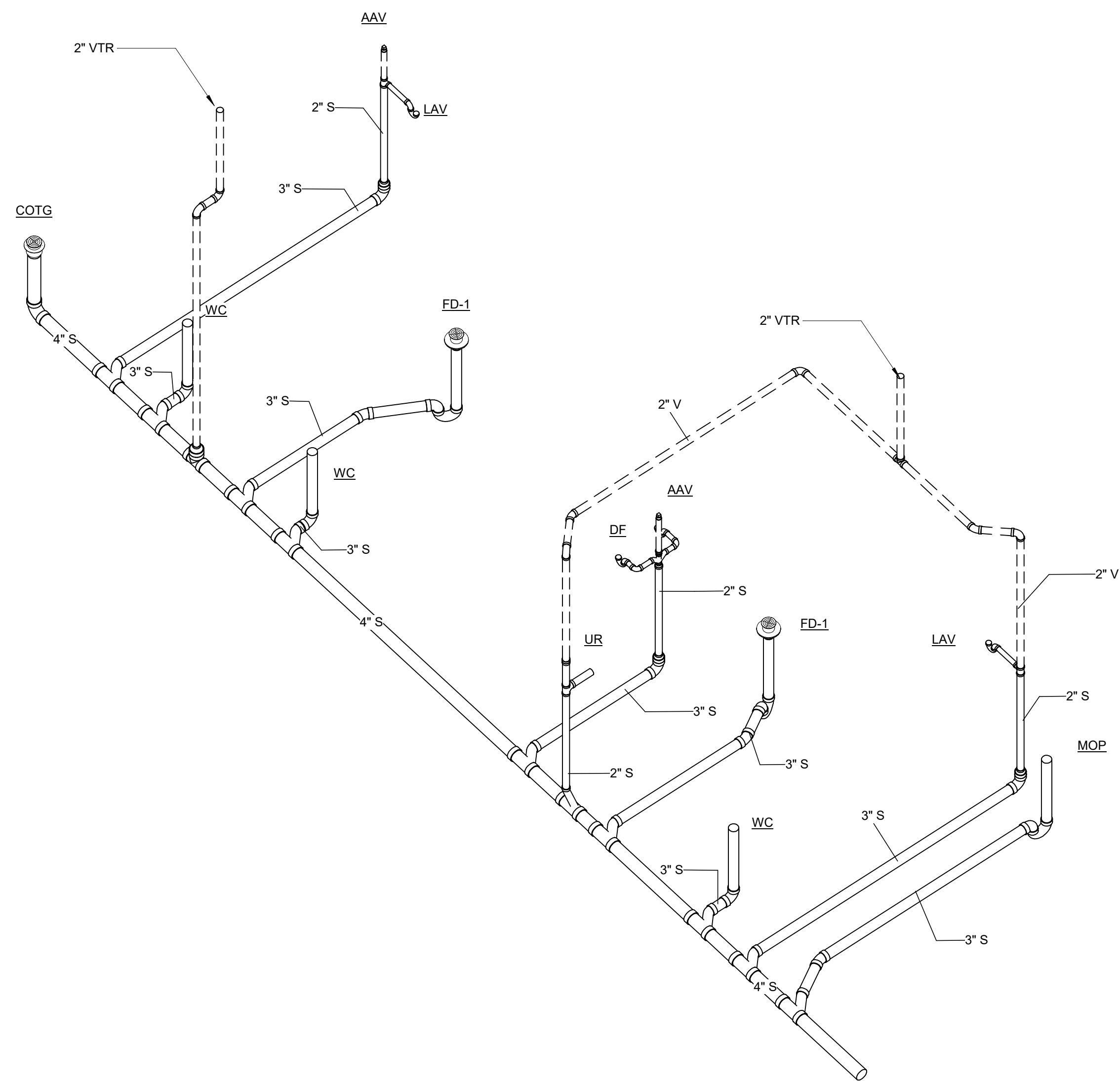
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| 2 | 10/16/23 | ISSUE FOR CONSTRUCTION |



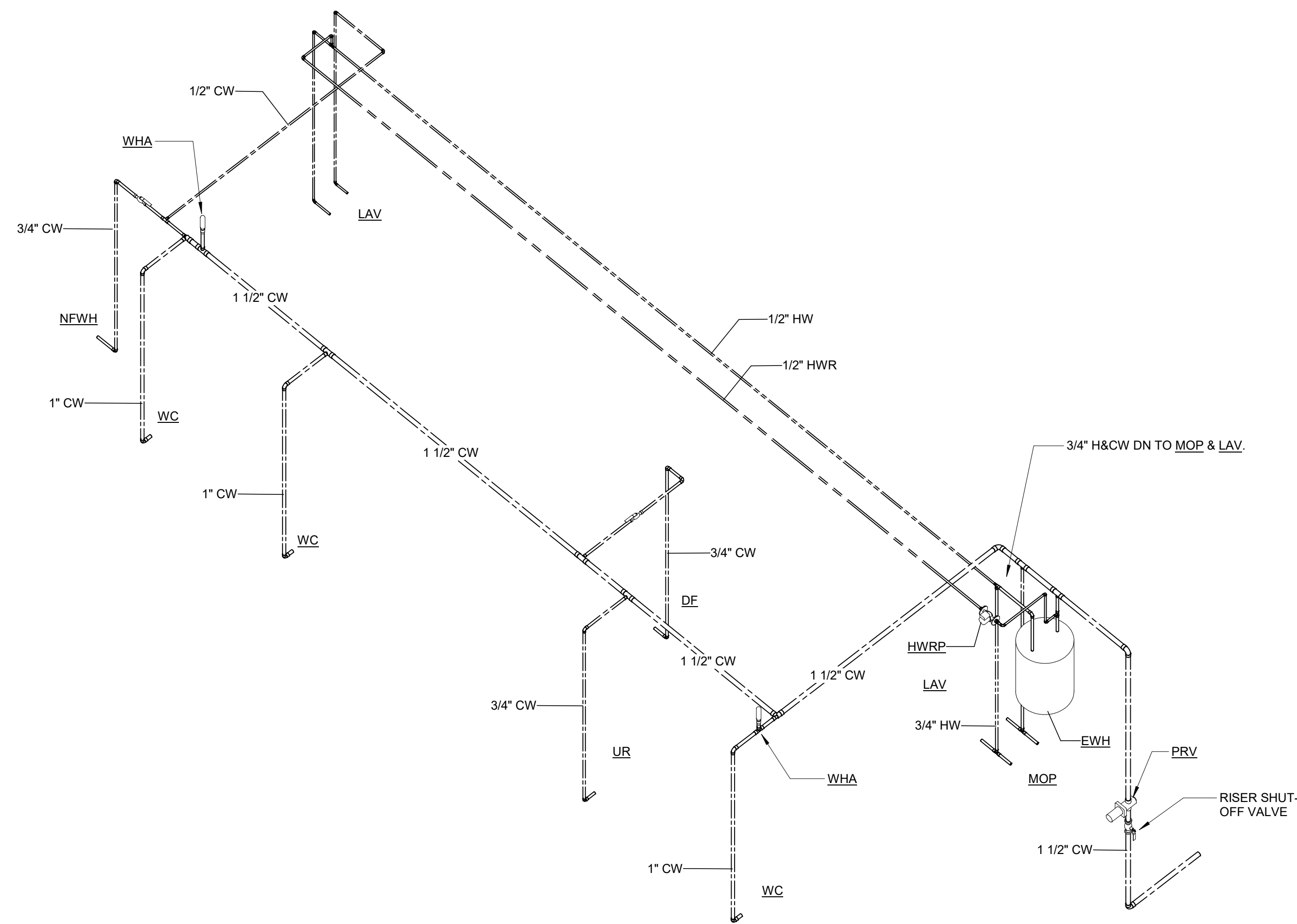
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P2

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2 **Sanitary Sewer Riser Diagram**
 SCALE:



1 **Domestic Water Riser Diagram**
 SCALE:



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| | | | CMD | |

P3