

Boykin Road Park

Boykin Road Park - Park Improvements
2345 Boykin Road, Augusta, GA 30906

Construction Documents - Permit / Bid Set

Initial Submittal: January 30, 2026 (Permit / Bid Set)
Revised: April 10, 2026
Rebid: July 17, 2026

Approval by Augusta, Georgia is for the improvements shown in the Site Plan. Any variation from the approved Site Plan must be approved by the City.

This property is located in ZONE X per FEMA NFIP Flood Insurance Rate Map 130158, panel 0205, effective 11/15/2019.



SITE VICINITY MAP
SCALE: Not to Scale

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Storm Water Quality IMP List

		Area Draining to Each IMP			Storage Volume Provided by IMP (cf)
		On-site Pervious Area (acres)	On-site Impervious Area (acres)	Offsite Area (acres)	
IMP 1	Permeable Paver/Pervious Concrete/Porous Asphalt (w/o underdrain)	0.42	0.03		204.68
IMP 2	Grass Channel (A & B hydrologic soils)	0.07	0.01		66.25
IMP 3	Grass Channel (A & B hydrologic soils)	0.09	0.02		66.80
IMP 4	Grass Channel (A & B hydrologic soils)	0.03	0.01		37.50
IMP 5	Grass Channel (A & B hydrologic soils)	0.04	0.18		161.25
IMP 6	Bioretention Basin (w/ upturned underdrain)	0.43	0.64		3,748.50
IMP 7	Grass Channel (A & B hydrologic soils)	0.06			425.00
IMP 8	Grass Channel (A & B hydrologic soils)	0.25	0.01		186.25

*See Boykin Road Park Improvements Hydrology Report dated April 13, 2026 for map and location of IMPs listed.

04 24 HR LOCAL EMERGENCY CONTACT

ANTHONY E. (TONY) WILLIAMS SR.
INFRASTRUCTURE SYSTEMS MANAGEMENT
PHONE: (706)–877–1884
EMAIL: AEWILLIAMS@SMILLC-ENGR.COM

(CONTRACTOR'S NAME) (PHONE NUMBER)

NOTE: CONTRACTOR TO PROVIDE UPDATED INFORMATION ONCE CONTRACT IS AWARDED.

OWNER: AUGUST PARKS AND RECREATION DEPARTMENT
NAME: ALPHONZA C. WILLIAMS
ADDRESS: 2027 LUMPKIN ROAD AUGUSTA, GA, 30906
PHONE: (706)796-4084

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

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Savannah, GA 31401
912.721.6999 · www.chasolutions.com

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTIVE UNDER THE REGISTRATION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER OR REPAIR ANY SEAL, PLAN OR DRAWING THE SEAL OF A LICENSED PROFESSIONAL AS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE WORKING VETERINER BY FOLLOWING BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

BOYKIN ROAD PARK - PARK IMPROVEMENTS

CONSTRUCTION DOCUMENTS

2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY,
GEORGIA

No.	Submittal / Revision	Appr	By	Date

COVER SHEET		
Designed By: SDW	Drawn By: SDW	Checked By: PG
Issue Date: 07/17/26	Project No.: 093489.000	Scale:

1. Based on monumentation found in the field and plat in reference, property lines are as shown. Subject and adjacent property owners' deed references were provided by EMC Engineering Services Inc and are not guaranteed as to accuracy or completeness.
2. This project is not located in a Special Flood Hazard Area per the Federal Emergency Management Agency's Flood Insurance Rate Map No. 13245C 0205G, Effective Date: November 15, 2019.
3. The basis of bearing for this survey is Georgia State Plane Coordinate System, East Zone (NAD83/2011), determined by GPS observations utilizing a eGPS 2011 GPS base and rover multi-frequency receivers on the eGPS Solutions, LLC VRS Network.

Total Area: Topographic area - +/- 2.60 Acres

E.O.C. Plat: N/A
E.O.C. Field: This Survey was completed using eGPS 2011 GPS base and rover multi-frequency receivers on the eGPS solutions vrs real-time kinematic network along with Robotic Total Station. The field data for this boundary survey has a relative positional accuracy of 0.06' or less, horizontally, at the 95% confidence level.

Equipment used:
TOTAL STATION: Geomax Zoom 95 Series
eGPS 2011 GPS base and rover multi-frequency receivers

Field Work Completed on: April 03, 2024

ZONING DATA
ZONING: R-1, ONE FAMILY RESIDENTIAL
USE: PUBLIC RECREATION
SETBACKS:
FRONT: 40' SETBACK
SIDE: 10' SETBACK
REAR: 20% OF THE DEPTH MAX 50'

SURVEYORS CERTIFICATION

AS REQUIRED BY SUBSECTION (D) OF O.C.G.A. SECTION 15-6-67, THIS PLAT HAS BEEN PREPARED BY A LAND SURVEYOR AND APPROVED BY ALL APPLICABLE LOCAL JURISDICTIONS FOR RECORDING AS EVIDENCED BY APPROVAL CERTIFICATES, SIGNATURES, STAMPS, OR STATEMENTS HEREON. SUCH APPROVALS OR AFFIRMATIONS SHOULD BE CONFIRMED WITH THE APPROPRIATE GOVERNMENTAL BODIES BY ANY PURCHASER OR USER OF THIS PLAT AS TO INTENDED USE OF ANY PARCEL. FURTHERMORE, THE UNDERSIGNED LAND SURVEYOR CERTIFIES THAT THIS PLAT COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN THE RULES AND REGULATIONS OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FORTH IN O.C.G.A. SECTION 15-6-67.



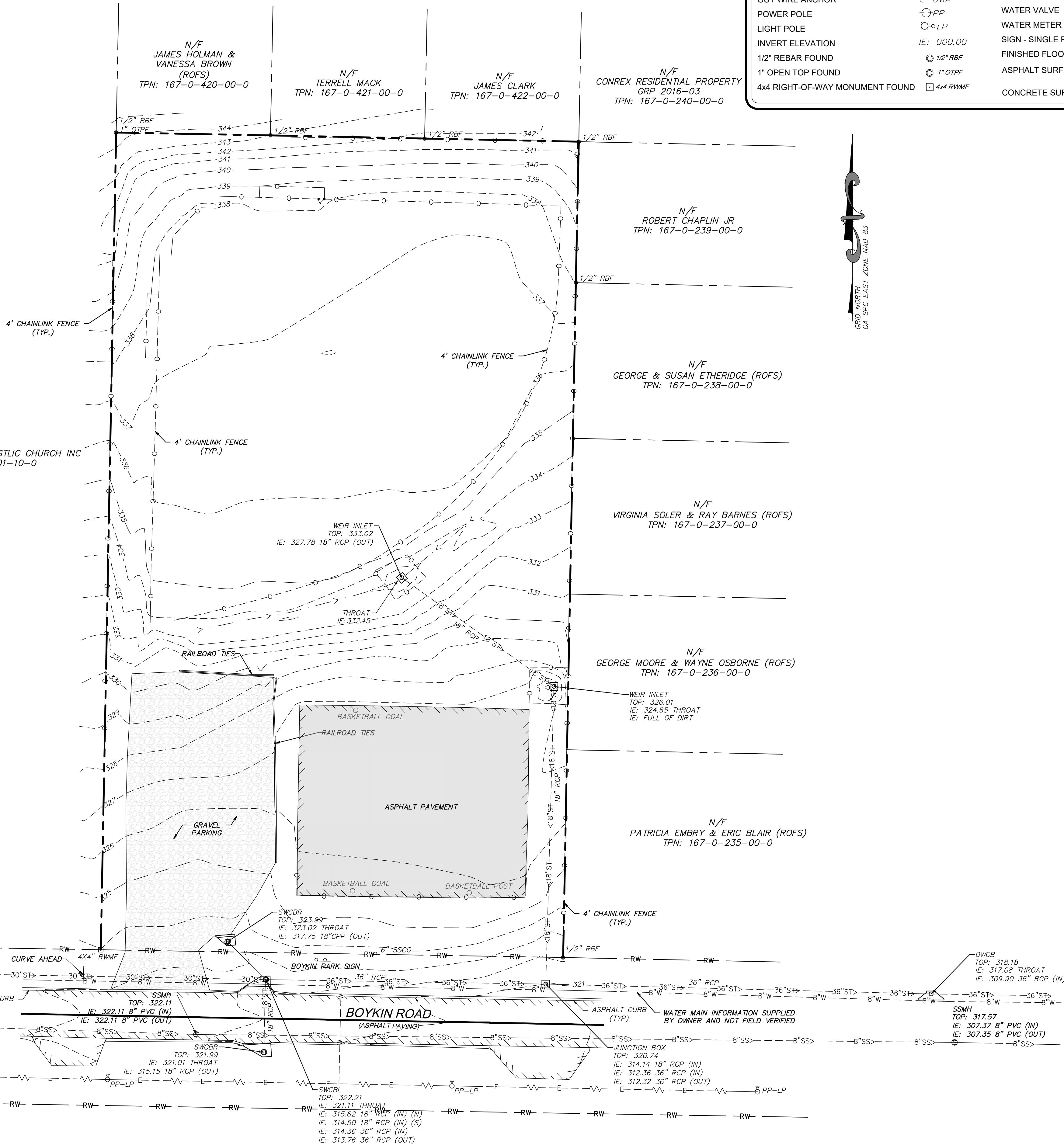
Richard E. Baldwin
RICHARD E. BALDWIN
GEORGIA REGISTERED LAND SURVEYOR #3262
CERTIFICATE OF AUTHORIZATION
LAND SURVEYOR FIRM #000051
4/23/24
DATE

GENERAL NOTES

- THE TERM "CERTIFICATION" AS USED IN RULE "180-6-.09(2) AND (3)" AND RELATING TO PROFESSIONAL ENGINEERING OR LAND SURVEYING SERVICES, AS DEFINED IN O.C.G.A. 43-15-2(6) AND (11), SHALL MEAN A SIGNED STATEMENT BASED UPON FACTS AND KNOWLEDGE KNOWN TO THE REGISTRANT AND IS NOT A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED.
- THIS SURVEY COMPLIES WITH BOTH THE RULES OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND THE OFFICIAL CODE OF GEORGIA ANNOTATED (OCCA) 15-6-67, IN THAT WHERE A CONFLICT EXISTS BETWEEN THOSE TWO SETS OF SPECIFICATIONS, THE REQUIREMENTS OF LAW PREVAIL.

LEGEND

OVERHEAD POWER	—E—	SANITARY SEWER MANHOLE	⊙
ELECTRIC TRANSFORMER	□ ETR	SANITARY SEWER LINE	—SS—
ELECTRIC OUTLET	⊙ EO	SANITARY CLEANOUT	○ SSCO
ELECTRIC BOX	□ EB	WATER MAIN	—8"W—
GUY WIRE ANCHOR	—GWA	IRRIGATION CONTROL VALVE	⋈ I/CV
POWER POLE	⊙ PP	WATER VALVE	⋈ W/V
LIGHT POLE	⊙ LP	WATER METER	⊙ WM
INVERT ELEVATION	IE: 000.00	SIGN - SINGLE POLE	⊙
1/2" REBAR FOUND	⊙ 1/2" RBF	FINISHED FLOOR ELEV.	FFE = 000.00
1" OPEN TOP FOUND	⊙ 1" OTPF	ASPHALT SURFACE	▨
4x4 RIGHT-OF-WAY MONUMENT FOUND	⊙ 4x4 RWMF	CONCRETE SURFACE	▩



NO.	REVISION DESCRIPTION	DATE
###	###	###
###	###	###
###	###	###
###	###	###
###	###	###
###	###	###

Georgia Engineering Services, Inc.
Land Surveying
Firm No. 000051
AUTHORIZATION
Engineering Services, Inc.

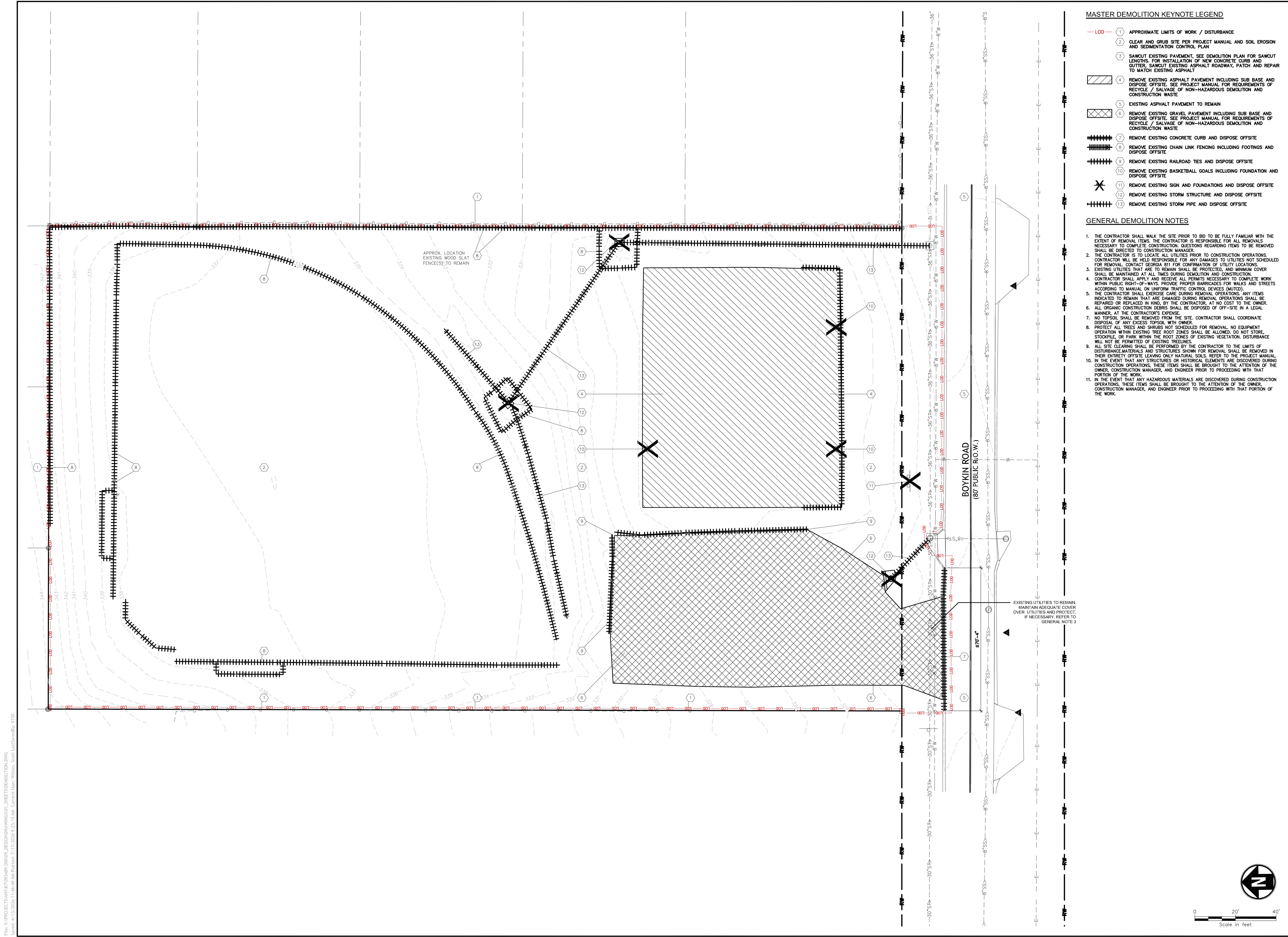
30' 15' 0' 30'

EMC ENGINEERING SERVICES, INC.
1000 Peachtree Road, Suite B
Atlanta, Georgia 30309
Phone: 404.525.1907
Fax: 404.525.1901
Email: info@emc-eng.com
www.emc-eng.com

BOYKIN ROAD PARK
2345 BOYKIN ROAD
G.M.D. 1660
AUGUSTA, RICHMOND COUNTY, GEORGIA
Prepared for:
CHA Consulting, Inc.

PROJECT NO.: 24-8046.21
DRAWN BY: LNL
DESIGNED BY:
SURVEYED BY: NB, JK
SURVEY DATE: 04-03-2024
CHECKED BY: REB
SCALE: 1" = 30'
DATE: 04-04-2024

SHEET
1
OF 43



MASTER DEMOLITION KEYNOTE LEGEND

- 1. APPROXIMATE LIMITS OF WORK / DISTURBANCE
- 2. CLEAR AND GRUB SITE PER PROJECT MANUAL AND SOIL EROSION AND SEDIMENTATION CONTROL PLAN
- 3. SAWCUT EXISTING PAVEMENT, SEE DEMOLITION PLAN FOR SAWCUT LENGTHS. FOR INSTALLATION OF NEW CONCRETE CURB AND GUTTER, SAWCUT EXISTING ASPHALT ROADWAY, PATCH AND REPAIR TO MATCH EXISTING ASPHALT
- 4. REMOVE EXISTING ASPHALT PAVEMENT INCLUDING SUB BASE AND DISPOSE OFFSITE. SEE PROJECT MANUAL FOR REQUIREMENTS OF RECYCLE / SALVAGE OF NON-HAZARDOUS DEMOLITION AND CONSTRUCTION WASTE
- 5. EXISTING ASPHALT PAVEMENT TO REMAIN
- 6. REMOVE EXISTING GRAVEL PAVEMENT INCLUDING SUB BASE AND DISPOSE OFFSITE. SEE PROJECT MANUAL FOR REQUIREMENTS OF RECYCLE / SALVAGE OF NON-HAZARDOUS DEMOLITION AND CONSTRUCTION WASTE
- 7. REMOVE EXISTING CONCRETE CURB AND DISPOSE OFFSITE
- 8. REMOVE EXISTING CHAIN LINK FENCING INCLUDING FOOTINGS AND DISPOSE OFFSITE
- 9. REMOVE EXISTING RAILROAD TIES AND DISPOSE OFFSITE
- 10. REMOVE EXISTING BASKETBALL GOALS INCLUDING FOUNDATION AND DISPOSE OFFSITE
- 11. REMOVE EXISTING SIGN AND FOUNDATIONS AND DISPOSE OFFSITE
- 12. REMOVE EXISTING STORM STRUCTURE AND DISPOSE OFFSITE
- 13. REMOVE EXISTING STORM PIPE AND DISPOSE OFFSITE

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL WALK THE SITE PRIOR TO BID TO BE FULLY FAMILIAR WITH THE EXTENT OF REMOVAL ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVALS NECESSARY TO COMPLETE CONSTRUCTION. QUESTIONS REGARDING ITEMS TO BE REMOVED SHALL BE DIRECTED TO CONSTRUCTION MANAGER.
2. THE CONTRACTOR IS TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION OPERATIONS. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO UTILITIES NOT SCHEDULED FOR REMOVAL, CONTACT GEORGIA 811 FOR CONFIRMATION OF UTILITY LOCATIONS.
3. EXISTING UTILITIES THAT ARE TO REMAIN SHALL BE PROTECTED, AND MINIMUM COVER SHALL BE MAINTAINED AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION.
4. CONTRACTOR SHALL APPLY AND RECEIVE ALL PERMITS NECESSARY TO COMPLETE WORK WITHIN PUBLIC RIGHT-OF-WAYS. PROVIDE PROPER BARRICADES FOR WALKS AND STREETS ACCORDING TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
5. THE CONTRACTOR SHALL EXERCISE CARE DURING REMOVAL OPERATIONS. ANY ITEMS INDICATED TO REMAIN THAT ARE DAMAGED DURING REMOVAL OPERATIONS SHALL BE REPAIRED OR REPLACED IN KIND, BY THE CONTRACTOR, AT NO COST TO THE OWNER.
6. ALL ORGANIC CONSTRUCTION DEBRIS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER, AT THE CONTRACTOR'S EXPENSE.
7. NO TOPSOIL SHALL BE REMOVED FROM THE SITE. CONTRACTOR SHALL COORDINATE DISPOSAL OF ANY EXCESS TOPSOIL WITH OWNER.
8. PROTECT ALL TREES AND SHRUBS NOT SCHEDULED FOR REMOVAL. NO EQUIPMENT OPERATION WITHIN EXISTING TREE ROOT ZONES SHALL BE ALLOWED. DO NOT STORE, STOOPPLE, OR PARK WITHIN THE ROOT ZONES OF EXISTING VEGETATION. DISTURBANCE WILL NOT BE PERMITTED OF EXISTING TREELINES.
9. ALL SITE CLEARING SHALL BE PERFORMED BY THE CONTRACTOR TO THE LIMITS OF DISTURBANCE MATERIALS AND STRUCTURES SHOWN FOR REMOVAL. SHALL BE REMOVED IN THEIR ENTIRETY OFFSITE LEAVING ONLY NATURAL SOILS. REFER TO THE PROJECT MANUAL.
10. IN THE EVENT THAT ANY STRUCTURES OR HISTORICAL ELEMENTS ARE DISCOVERED DURING CONSTRUCTION OPERATIONS, THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER, CONSTRUCTION MANAGER, AND ENGINEER PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK.
11. IN THE EVENT THAT ANY HAZARDOUS MATERIALS ARE DISCOVERED DURING CONSTRUCTION OPERATIONS, THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER, CONSTRUCTION MANAGER, AND ENGINEER PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK.

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912.721.6999 • www.chasolutions.com

Augusta
GEORGIA

DELTA
ENGINEERING

RAYMOND

Sustainable Design
Consultants, LLC

GEORGIA
REGISTERED
7-17-26
No. PE026590

PATRICK N. GRAHAM
ENGINEER

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE
ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL
ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND
SURVEYOR TO ALTER OR ADD TO ANY PLAN, SPECIFICATION, THE
SEAL OF A LICENSED PROFESSIONAL AS ALTERED, THE ALTERING
ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND
SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE
WORKMAN, ALTERED BY FOLLOWING BY THEIR SIGNATURE, THE
DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION
OF THE ALTERATION.

BOYKIN ROAD
PARK - PARK
IMPROVEMENTS

CONSTRUCTION
DOCUMENTS

2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY,
GEORGIA

No.	Submittal / Revision	Appr	By	Date

DEMOLITON
PLAN

Designed By:
SDW

Drawn By:
SDW

Checked By:
PG

Issue Date:
07/17/26

Project No.:
093489.000

Scale:
1" = 20'

Drawing No.:
C-001

Sheet 4 of 42



Sustainable Design
Consultants, LLC



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

BOYKIN ROAD PARK - PARK IMPROVEMENTS

CONSTRUCTION
DOCUMENTS

2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY
GEORGIA

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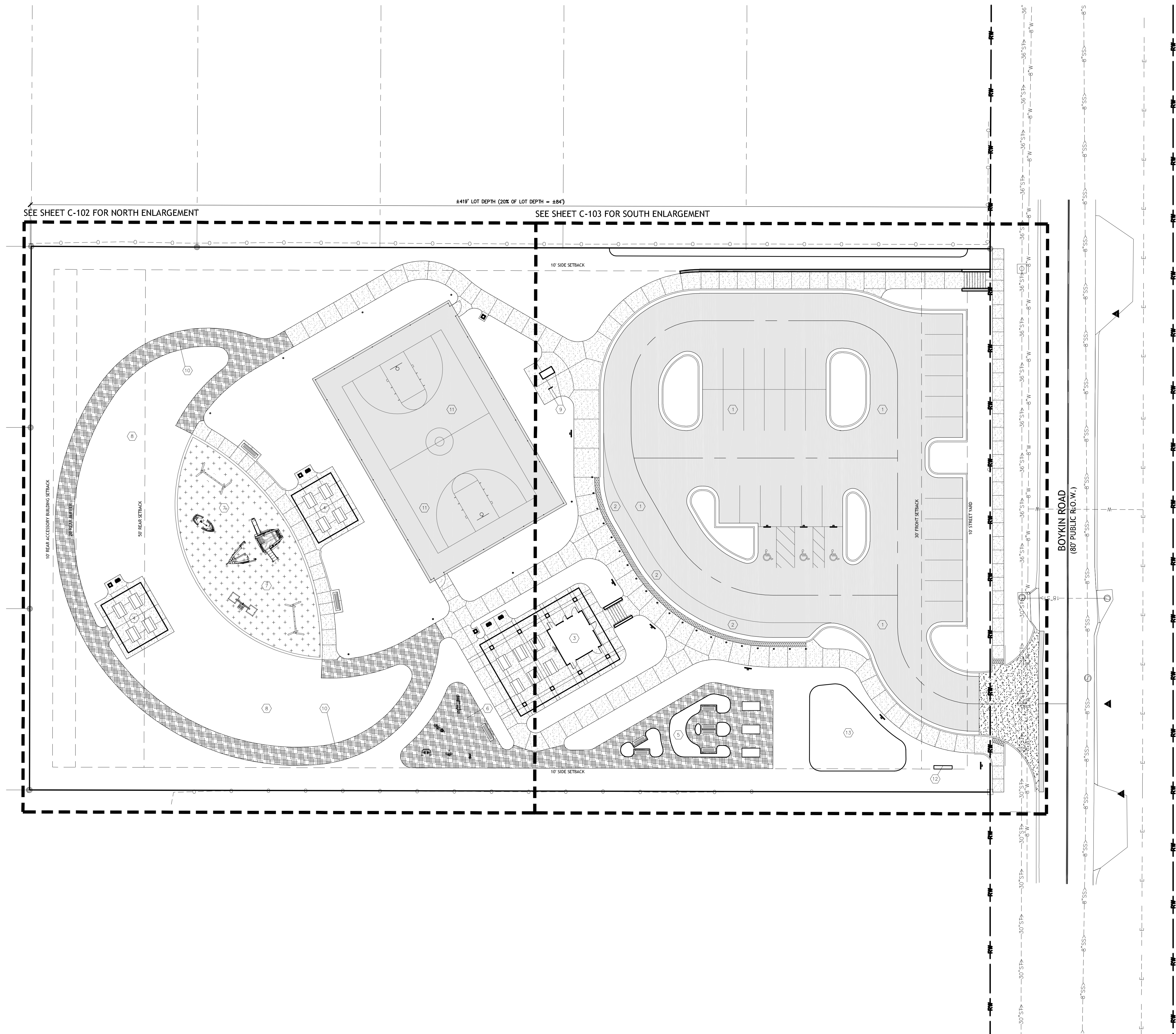
OVERALL SITE PLAN

Designed By: SDW	Drawn By: SDW	Checked By: PG
Issue Date: 07/17/26	Project No.: 093489.000	Scale: 1" = 20'

Drawing No.

C-101

Sheet 5 of 42



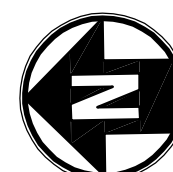
OVERALL SITE PLAN KEYNOTE LEGEND

- | | |
|----|---|
| 1 | ASPHALT VEHICULAR PARKING LOT (34 STALLS) WITH GDOT APPROVED ENTRANCE / APRON OR CURB RAMPS |
| 2 | VEHICULAR DROP-OFF AREA WITH FLUSH CURB AND BOLLARDS |
| 3 | 20 x 40' PICNIC PAVILION WITH RESTROOMS |
| 4 | 20 x 24' OPEN-AIR SHELTERS WITH GRILLS AND TRASH RECEPTACLES |
| 5 | DEMENZA GARDEN WITH RAISED PLANT BEDS |
| 6 | FITNESS AREA |
| 7 | PROPOSED PLAYGROUND WITH ENGINEERED WOOD FIBER SURFACING AND PLAY EQUIPMENT |
| 8 | OPEN LAWN PASSIVE PLAY AREA |
| 9 | SHORT AND LONG TERM BICYCLE PARKING |
| 10 | 8 FOOT WIDE STONE DUST WALKING TRAIL WITH BENCHES, TRASH RECEPTACLES, AND LIGHTS |
| 11 | FUTURE BASKETBALL COURT |
| 12 | MONUMENT SIGN |
| 13 | PROPOSED STORM WATER CONTROL MEASURE (SCM) |

SITE DATA

SITE ADDRESS	2345 BOYKIN ROAD AUGUSTA, GA 30906
PARCEL NUMBER	167-0-001-12-0
SITE ACREAGE	22.288 ACRES ±99,680.81 SQUARE FEET
EXISTING ZONING	R-1 (ONE-FAMILY RESIDENTIAL)
SETBACKS	
FRONT	30' (MINOR OR LOCAL STREET)
SIDE	10' EA. SIDE (LOT WIDTH OVER 70')
REAR	20% OF LOT DEPTH
	10' EXCEEDS 50' ACCESSORY BUILDINGS
SIDE	10' (REQUIRED FOR PRINCIPAL
REAR	STRUCTURES)
	10'
AREA	MIN. WIDTH OF 100' AND MINIMUM AREA OF 15,000 SF
HEIGHT	2 1/2 STORIES OR 45'
LOT COVERAGE	30% (BUILDINGS OR STRUCTURES)
GROSS FLOOR AREA (ACCESSORY BLDG)	GREATER OF 500 SF OR 3% OF LOT AREA, BUT NEVER MORE THAN 1,200 SF.
OFF-STREET PARKING REQUIRED (RECREATIONAL FACILITIES NOT ELSEWHERE SPECIFIED)	THE NUMBER OF SPACES REQUIRED SHALL BE DETERMINED BY THE PLANNING AND DEVELOPMENT DEPARTMENT STAFF ON THE BASIS OF THE TYPE OF USE PROPOSED, ITS INTENDED OCCUPANCY, AND SEATING ARRANGEMENTS.
OFF-STREET LOADING REQUIREMENTS	NOT APPLICABLE
* IN THE CASE OF A LOT NOT SPECIFICALLY MENTIONED IN CHAPTER 4-5, THE REQUIREMENTS FOR OFF-STREET-LOADING FACILITIES SHALL BE DETERMINED BY THE PLANNING COMMISSION. SUCH DETERMINATION SHALL BE BASED UPON THE REQUIREMENTS SET FORTH FOR THE MOST COMPARABLE USE SPECIFIED IN SECTION 4-5.	
BICYCLE PARKING REQUIREMENTS	4 TOTAL SPACES (2 SHORT AND LONG) MIN. OF 2 SHORT AND LONG-TERM PARKING SPACES. PARKING PROVIDED AT A RATE OF ONE (1) BIKE SPACE FOR EVERY TEN VEHICLE PARKING SPACES. 34 SPACES / 10 ± 3 SPACES
MAXIMUM POND AREA 2 - 5 ACRES	20%
* PONDS SMALLER THAN THE MAXIMUM RATIOS SHALL BE PERMITTED USES BY: ROAD RETENTION OR DETENTION OR SUBDIVISION DEVELOPMENT PLAN SHALL ALSO BE DEPENDING UPON RIG- A GRADING PLAN OR A SOIL EROSION PLAN, BASED UPON THE SIZE OF THE DISTURBED AREA. SHALL BE SUBMITTED AND REVIEWED BEFORE CONSTRUCTION OF A POND REQUIRING SPECIAL EXCAVATION COMMENCES.	
MINIMUM TRAMP CANOPY REQUIREMENT	30%
STREET YARD REQUIREMENT	LARGE TREES ONE (1) LARGE TREE FOR EACH 45 LF ON CENTER OF STREET FRONTAGE, WITH A LARGE TREE BEING LOCATED WITHIN 20' OF EACH SIDE PROPERTY LINE. 237.5 LF / 45 ± 5 TREES
MINIMUM INTERIOR LANDSCAPED AREAS	\$1,185 SF OF THE TOTAL INTERIOR AREA OF A PARKING LOT \$23,708 x .05 = \$1,185 SF \$1,129 SF
INTERIOR LANDSCAPED AREA PROVIDED	
SURVEY PERFORMED BY	EMC ENGINEERING SERVICES, INC. 4242 COLUMBIA ROAD SUITE 8 AUGUSTA, GA 30907 TELE: (706) 863-8010

SHEET IS FOR
REFERENCE ONLY





MASTER LAYOUT KEYNOTE LEGEND

IDENTIFIED ITEMS THAT ARE GREYED OUT ARE FOR REFERENCE ONLY AND ARE CONSIDERED NOT PART OF THIS CONTRACT (NOC)

- 1 SEEDED LAWN AREA, RESPREAD TOPSOIL AND SEED, REFER TO THE PROJECT MANUAL
- 2 NATIVE SEED / GRASS MIX, SEE LANDSCAPE PLAN (NOC)
- 3 36 FEET x 50 FEET PICNIC SHELTER WITH RESTROOMS, SEE ARCHITECTURAL SERIES DRAWINGS
- 4 20 FEET x 24' FEET OPEN AIR PICNIC SHELTER, SEE DETAIL 4/C-603 AND THE PROJECT MANUAL
- 5 HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL 1/C-601
- 6 GRAVEL PARKING AREA, SEE DETAIL 2/C-601
- 7 FUTURE RECREATIONAL DUTY ASPHALT PAVEMENT (NOT IN CONTRACT)
- 8 HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL 6/C-601
- 9 STANDARD DUTY CONCRETE PAVEMENT, SEE DETAIL 7/C-601
- 10 ISOLATION JOINT, SEE DETAIL 8/C-601
- 11 DECOMPOSED GRANITE PATHWAY, SEE DETAIL 5/C-603, COLOR SELECTION BY OWNER
- 12 ENGINEERED WOOD FIBER, REFER TO THE PROJECT MANUAL
- 13 DETECTABLE WARNING TILES, SEE DETAIL 9/C-601
- 14 18 INCH VERTICAL CURB, SEE DETAIL 10/C-601
- 15 24 INCH VERTICAL CURB, SEE DETAIL 10/C-601
- 16 24 INCH CURB AND GUTTER, SEE DETAIL 11/C-601
- 17 24 INCH CURB AND PITCHED GUTTER, SEE DETAIL 11/C-601
- 18 600 6" or 8" CONCRETE VALLEY GUTTER WITH CURB DRIVE ENTRANCE (A-02), SEE DETAIL 12/C-601
- 19 CURB TRANSITION, SEE DETAIL 13/C-601
- 20 CONCRETE CURB RAMP, TYPE I, SEE DETAIL 14/C-601
- 21 CONCRETE CURB RAMP, TYPE II, SEE DETAIL 15/C-601
- 22 CONCRETE CURB RAMP, TYPE III, SEE DETAIL 16/C-601
- 23 TURN DOWN CONCRETE SLAB / CONCRETE RETAINING WALL, SEE DETAIL 7/C-601 & 6-C-602
- 24 CONCRETE STEPS WITH CHEEK WALL, SEE DETAIL 5/C-602
- 25 SAFETY HANDRAIL, SEE DETAIL 6/C-602
- 26 2 INCH DEEP HARDWOOD MULCH BED WITH WEED BARRIER, REFER TO THE PROJECT MANUAL
- 27 "V" NOTCH LANDSCAPE BED EDGE, SEE LANDSCAPE PLANS
- 28 PAINTED DISABILITY ACCESSIBLE SYMBOL, SEE DETAIL 7/C-602
- 29 4 INCH WIDE PAINTED WHITE LINE, REFER TO THE PROJECT MANUAL
- 30 4 INCH WIDE PAINTED YELLOW LINE, REFER TO THE PROJECT MANUAL
- 31 4 INCH WIDE PAINTED YELLOW LINES AT 45° ANGLE FROM ROADWAY CENTERLINE WITH 2 FOOT SPACING, REFER TO THE PROJECT MANUAL
- 32 4 INCH WIDE PAINTED YELLOW LINES AT 45° ANGLE FROM ROADWAY CENTERLINE WITH 2 FOOT SPACING, REFER TO THE PROJECT MANUAL
- 33 FUTURE BASKETBALL ASSEMBLY (NOT IN CONTRACT)
- 34 2 INCH DEEP HARDWOOD MULCH BED WITH WEED BARRIER, REFER TO THE PROJECT MANUAL
- 35 INVERTED "U" BICYCLE LOOP, SEE DETAIL 9/C-602
- 36 BICYCLE STORAGE LOCKER, SEE DETAIL 10/C-602
- 37 BOLLARD: STANDARD OR SOLAR POWERED BOLLARD, SEE PLAN AND DETAIL 11/C-602
- 38 6 FOOT LONG BENCH, SEE DETAIL 12/C-602
- 39 8 FOOT LONG BENCH, SEE DETAIL 12/C-602
- 40 GRILL, SEE DETAIL 13/C-602
- 41 RAISED PLANTER, REFER TO THE PROJECT MANUAL
- 42 TABLE, REFER TO THE PROJECT MANUAL
- 43 TRASH RECEPTACLE, SEE DETAIL 1/C-603
- 44 4 INCH PERFORATED (SOLID WHERE INDICATED) CORRUGATED UNDERDRAINAGE WRAPPED IN FILTER FABRIC, SLOPE ALL PIPE AT 0.5 PERCENT MINIMUM UNLESS OTHERWISE NOTED. BEGIN UNDERDRAINAGE WITH A MINIMUM OF 12 INCHES OF COVER
- 45 FUTURE 10 FOOT HEIGHT x 5 FOOT WIDE GALVANIZED CHAIN LINK FENCE GATE LEAF (NOT IN CONTRACT)
- 46 SITE LIGHTING, SEE ELECTRICAL SERIES DRAWINGS
- 47 4 INCH PERFORATED (SOLID WHERE INDICATED) CORRUGATED UNDERDRAINAGE WRAPPED IN FILTER FABRIC, SLOPE ALL PIPE AT 0.5 PERCENT MINIMUM UNLESS OTHERWISE NOTED. BEGIN UNDERDRAINAGE WITH A MINIMUM OF 12 INCHES OF COVER (NOT IN CONTRACT)
- 48 FUTURE 4 INCH PERFORATED (SOLID WHERE INDICATED) CORRUGATED UNDERDRAINAGE WRAPPED IN FILTER FABRIC, SLOPE ALL PIPE AT 0.5 PERCENT MINIMUM UNLESS OTHERWISE NOTED. BEGIN UNDERDRAINAGE WITH A MINIMUM OF 12 INCHES OF COVER (NOT IN CONTRACT)
- 49 5 INCH SCHEDULE 80 PVC CONDUIT FOR ELECTRICAL SERVICE. INSTALL 3" BELOW FINISH GRADE WITH WARNING TAPE

PLAYGROUND AND FITNESS EQUIPMENT KEYNOTE LEGEND

REFER TO PROJECT MANUAL FOR EQUIPMENT MATERIALS

2-5 & 5-12 PLAYGROUND:

- A PIRATE SHIP PLAY STRUCTURE, 5-12 AGE GROUP
- B PIRATE SHIP ROLE PLAY STRUCTURE, 2-5 AGE GROUP
- C 2-SEAT SWING FRAME
- D SWING - BELT SEAT
- E SWING - DUO SEAT
- F SWING - INCLUSIVE SEAT
- G WATER SEESAW WITH SPLASH TABLES

FITNESS EQUIPMENT (NOT IN CONTRACT)

- H CROSS TRAINER
- I RECLINANT BIKE
- J FREE RUNNER
- K ARM BIKE
- L TRIP

GENERAL LAYOUT NOTES

- SEE CIVIL LAYOUT DRAWINGS FOR COORDINATION OF WORK WITH GENERAL LAYOUT, PAVING, UTILITIES AND ALL OTHER CONDITIONS ADJACENT TO PLAYING FIELDS.
- ALL LAYOUT IS TO BE STAMPED BY A PROFESSIONAL SURVEYOR PRIOR TO CONSTRUCTION.
- VERIFY ALL SITE CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF WORK. NOTIFY OWNER OF ANY DISCREPANCIES OR ANY REPRESENTATIONS OF ANY REPRESENTATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL MARK ALL UTILITIES AND PROVIDE MARKED-UP RECORD PLANS FOR ALL UTILITIES.
- INSTALL OR ENCOUNTERED PER SPECIFICATIONS.
- DIMENSIONS ARE GIVEN TO FACE OF CURB UNLESS NOTED OTHERWISE.
- DIMENSIONS ARE GIVEN TO THE FACE OF EXTERIOR WALLS UNLESS NOTED OTHERWISE.
- TYPICAL RADIAL DIMENSIONS ARE 5' UNLESS NOTED OTHERWISE.
- ALL ANGLES ARE 90° UNLESS OTHERWISE INDICATED.
- SEE ARCHITECTURAL SERIES DRAWINGS FOR BUILDING LAYOUT, MATERIALS, AND DIMENSIONS.
- CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL UTILITIES SERVICES INCLUDING, BUT NOT LIMITED TO: GAS, STORM, SANITARY, DOMESTIC WATER, FIRE PROTECTION SERVICES, FIRE DEPARTMENT CONNECTIONS, ELECTRICAL, AND TELECOMMUNICATIONS PRIOR TO THE START OF WORK WITH ALL OTHER TRADES.
- PLAYGROUND INSTALLER IS TO CONSIDER EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE CONSTRUCTION MANAGER PRIOR TO COMMENCING WORK.
- PLAYGROUND INSTALLER IS TO LOCATE ALL UTILITIES PRIOR TO INSTALLATION OPERATIONS. INSTALLER WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO EXISTING UTILITIES.
- REFER TO PROJECT MANUAL FOR PLAY EQUIPMENT, SURFACING, AND SITE FURNITURE REQUIREMENTS.
- MAXIMUM CRITICAL FALL HEIGHT OF PLAYGROUND EQUIPMENT SHALL BE 10'-0".
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL ELEMENTS AS REQUIRED IN THE SPECIFICATIONS.

EXISTING 4" HT CHAIN LINK FENCE (TO BE REMOVED) 8' 4" HT. WOODEN SLAT FENCE, JEFFREY AND SUSAN ROPS PARCEL NO.: 167-0-239-00-0

EXISTING 4" HT CHAIN LINK FENCE (TO BE REMOVED) 8' 4" HT. WOODEN SLAT FENCE, RAY AND VIRGINIA ROPS PARCEL NO.: 167-0-237-00-0

STORM STRUCTURES, TYP.

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Sustainable Design
Consultants, LLC



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN IDEA IN ANY WAY. IF AN ITEM BEARING A STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERED ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

BOYKIN ROAD PARK - PARK IMPROVEMENTS

CONSTRUCTION
DOCUMENTS

2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY,
GEORGIA

[illegible]

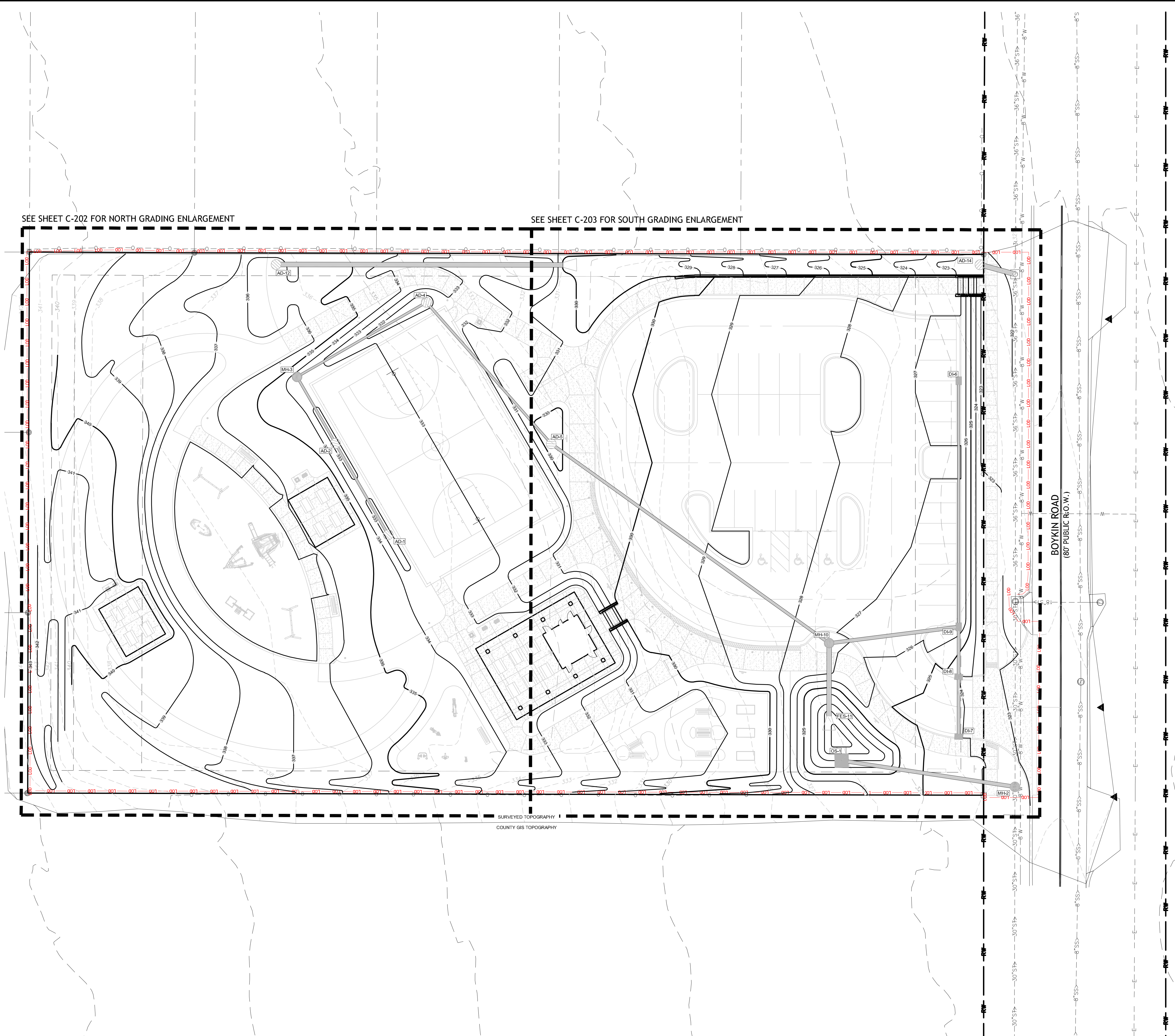
OVERALL GRADING PLAN

Designed By: SDW	Drawn By: SDW	Checked By: PG
Issue Date: 07/17/26	Project No.: 093489.000	Scale: 1" = 20'

Drawing No.:

C-201

Sheet 8 of 42



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BOYKIN ROAD PARK - PARK IMPROVEMENTS

INSTRUCTION
DOCUMENTS

5 BOYKIN ROAD
CITY OF AUGUSTA,
DIAMOND COUNTY,
GEORGIA

[illegible]

TRADING PLAN - SOUTH

Drawn By: SDW	Checked By: PG
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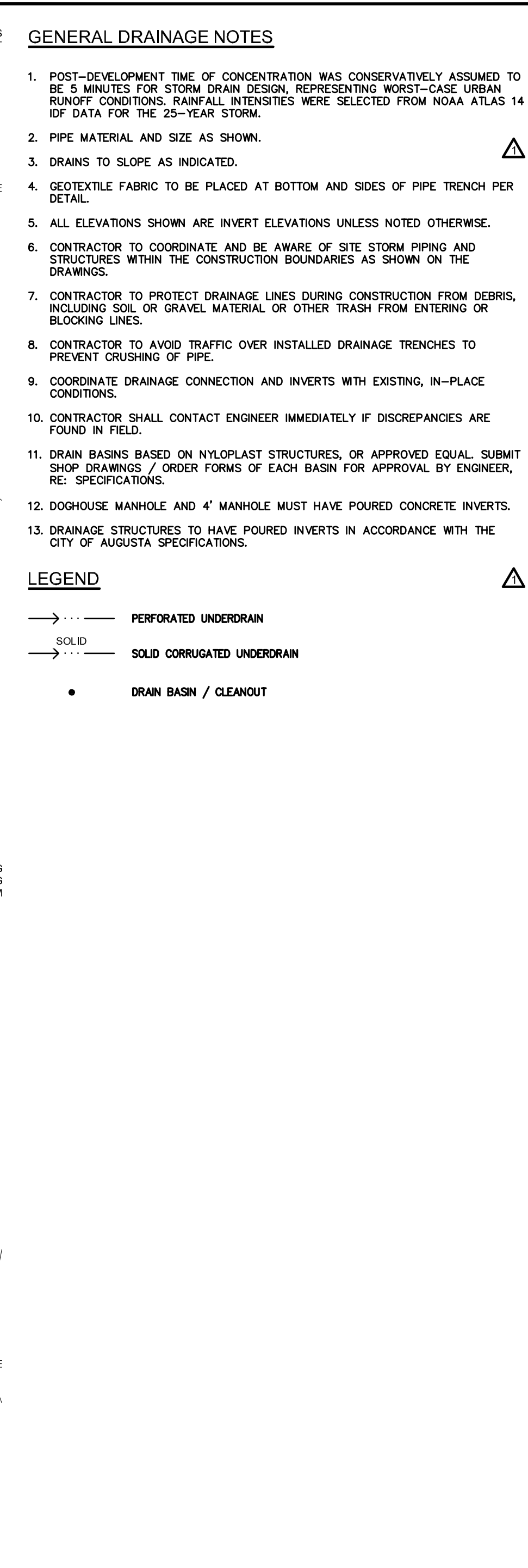
Date:	Project No.:	Scale:
7/26	093489.000	1" = 10'

wing No.:

-203

t 10 of 42





STORM WATER BY-PASS (25-YR, 5 MINUTE TOC)											
AD-12	335.00	---	---	330.65	126 ft	24"	HDPE	0.52%	FES-13	25-YR	
FES-13	321.00	---	AD-12	330.00							
AD-14	322.00	320.00	AD-12	313.10	16 ft	24"	RCP	1.25%	EX. MH	25-YR	
EX. MH	320.74	312.90 314.14 312.36	AD-14	312.32							
OUTLET											
GS-1	325.00	---	---	317.00	77 ft	18"	RCP	0.26%	MH-2		
MH-2	323.50	316.80	GS-1	315.20							

CHANNEL GENERAL NOTES

1. SEE SHEET C-604 FOR REINFORCED CHANNEL ANALYSIS.
2. SEE LANDSCAPE PLAN FOR PLANTING DESIGN.
3. EROSION MAT FOR CHANNEL D-1 TO BE STRAW BLANKET S150BN BY NORTH AMERICAN GREEN OR APPROVED EQUAL. CHANNEL D-2 TO CONTAIN UN-REINFORCED VEGETATION.
4. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. SEE HYDROLOGY REPORT FOR WAITING CALCULATIONS.

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BOYKIN ROAD PARK - PARK IMPROVEMENTS

CONSTRUCTION
DOCUMENTS

2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY,
GEORGIA

No.	Submittal / Revision	Appr	By	Date

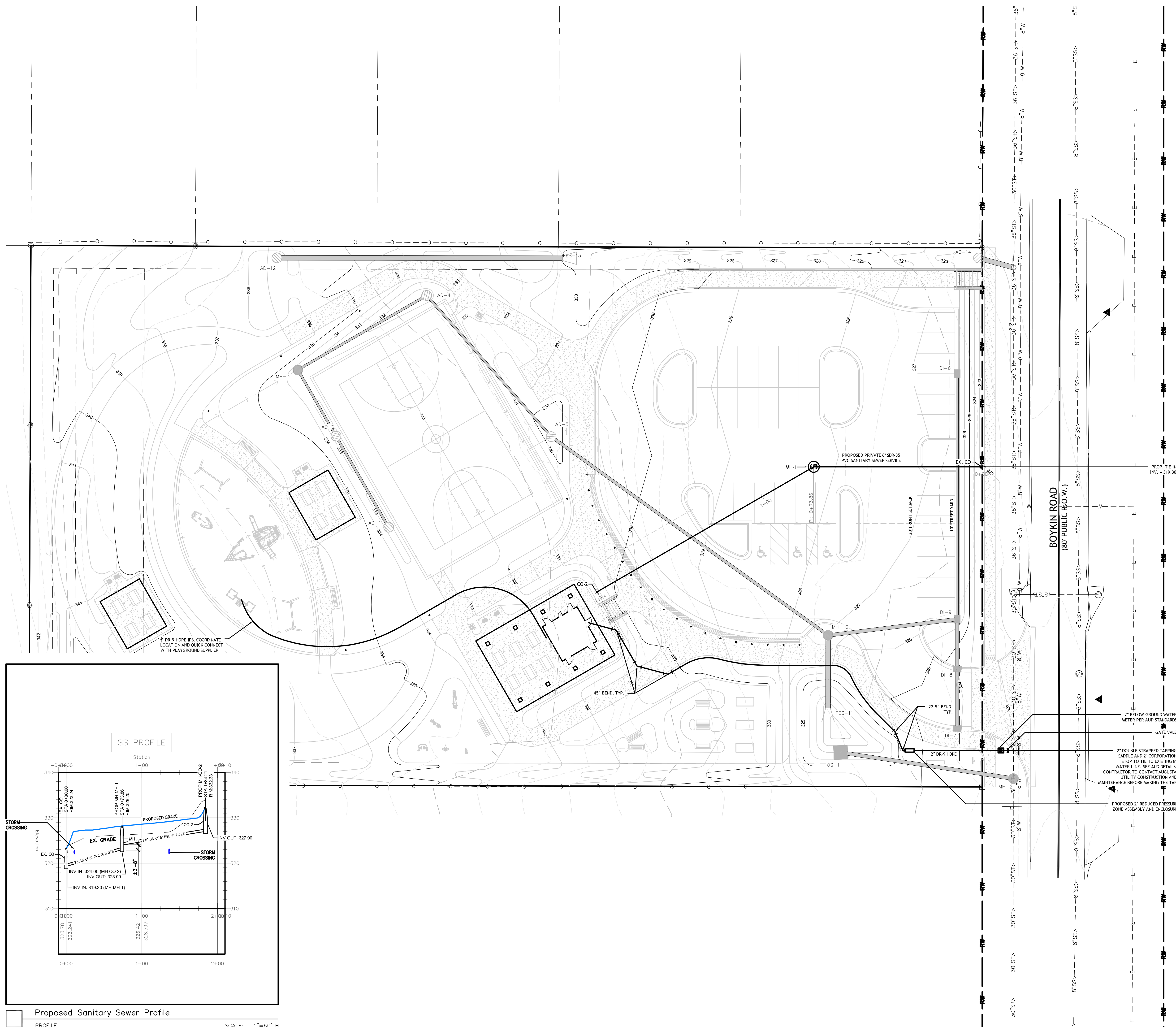
UTILITY PLAN

Designed By: SDW	Drawn By: SDW	Checked By: PG
Issue Date: 07/17/26	Project No.: 093489.000	Scale: 1" = 20'

Drawing No.:

C-301

Sheet 12 of 42



SITE UTILITY NOTES

- ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING ANY EXISTING LINES.
- SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
 - 6" SDR-35 ASTM A-3034
 - WATER LINE MATERIAL SHALL BE AS FOLLOWS (SEE AUC MINIMUM STANDARDS FOR ADDITIONAL INFORMATION):
 - 4.1. WATER SERVICE LINES LESS THAN 4" IN SIZE:
 - 1.1.1. WATER SERVICE LINES SHALL BE 10" K-500 COPPER OR SHALL BE SEAMLESS, AMERICAN MADE, AND CONFORM TO ASTM SPECIFICATIONS.
 - 1.1.2. HOPE CAN BE USED IN LIEU OF COPPER FOR WATER SERVICE PIPE MATERIAL. THE LINE IS LONGER THAN 140'-FEET FOR 4" SERVICE OR 60'-FEET FOR 2"-INCH SERVICES. HOPE SHALL BE COPPER TUBING SIZE (CTS) DR-9 HOPE FOR 1"-INCH WATER SERVICES AND IRON PIPE SIZE (IPS) DR-9 HOPE FOR 2" SERVICES.
 - MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
 - ALL WATER JOINTS SHALL BE PER AUGUSTA UTILITY DEPARTMENT CONSTRUCTION STANDARDS.
- WATER AND SANITARY SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" APART (OUTSIDE OFE OF PIPE TO OUTSIDE OFE OF PIPE).
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 1" COVER OVER ALL WATER LINES. MINIMUM HORIZONTAL COVER SHALL BE 18" FOR TRENCHES.
- WATER AND SEWER LINES SHALL BE DIP, AND JOINTS STAGGERED SUCH THAT MAXIMUM OF TWO JOINTS BEGINS WITHIN 10'-FEET OF EACH OTHER. JOINTS WITHIN 10'-FEET OF DIP PIPE SHALL BE NO LESS THAN 10'-FEET, BUT A FULL JOINT IS RECOMMENDED.
- LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BEING COVERED.
- ALL TRENCHING SHALL FOLLOW THE FOLLOWING:
 - TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED ELEVATIONS.
 - EXISTING CONCRETE FLOOR PLACEMENTS SHALL HAVE A MINIMUM 28 PSI COMPRESSION STRENGTH AT 3000 PSI.
 - DRAWINGS DO NOT PURPORT TO SHOW EXISTING UTILITIES.
 - EXISTING UTILITIES ARE TO BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
 - REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
 - CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL TRENCHING AUTHORITY WITH TIE-INS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODE AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SEWER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- CONTRACTOR TO PROVIDE TRENCHING, CONDUIT, PULL WIRE AND BACKFILL FOR TELEPHONE AND ELECTRIC LINES.
- THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION, SIZE, AND MATERIAL OF ANY EXISTING WATER OR SEWER FACILITY PROPOSED FOR CONNECTION OR USE IN THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY TO AVOID ANY PART OF THIS DEVELOPMENT IS THE RESPONSIBILITY OF THE DEVELOPER.
- ALL CONSTRUCTION TO CONFORM TO APPLICABLE CITY SPECIFICATIONS AND IN COMPLIANCE WITH THE CITY OF AUGUSTA, GEORGIA.
- VAULTS THAT FALL WITHIN PAVED AREAS OR AREAS THAT ARE EXPOSED TO VEHICULAR TRAFFIC SHALL REQUIRE A TRAFFIC RATED COVER THAT IS CAPABLE OF HANDLING AN H20 TRUCK LOAD.

UTILITY PLAN LEGEND

- | | |
|---|------------------------------|
|  | PROPERTY LINE |
|  | DOMESTIC WATER PIPING |
|  | SANITARY SEWER |
|  | SANITARY SEWER CLEANOUT |
|  | BEND (DEGREES NOTED ON PLAN) |
|  | TAPPING SADDLE |
|  | DOMESTIC WATER METER |
|  | REDUCED PRESSURE ASSEMBLY |
| AUD | AUGUSTA UTILITIES DEPARTMENT |

NOTICE TO GENERAL CONTRACTOR REGARDING UTILITY INSTALLATION

[illegible]

SUPERINTENDENT:

ATHONY E. (TONY) WILLIAMS SR.
INFRASTRUCTURE SYSTEMS MANAGEMENT
PHONE: (706)-877-1884
EMAIL: AEWILLIAMS@ISMLLC-ENGR.COM

(CONTRACTOR'S NAME)	(PHONE NUMBER)
---------------------	----------------

NOTE: CONTRACTOR TO PROVIDE UPDATED INFORMATION ONCE CONTRACT IS AWARDED.

(IN ACRES)	
SITE AREA	2.40 AC±
ON-SITE DISTURBED AREA	2.27 AC±
OFF-SITE DISTURBED AREA	00.13 AC±
TOTAL DISTURBED AREA	(MUST MATCH NOI) 2.40 AC±
IMPERVIOUS AREA AT COMPLETION	0.97 AC±
PERVIOUS AREA AT COMPLETION	1.42 AC±

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION WITH MULCHING ONLY		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a sufficient growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION WITH TEMP SEEDING		Ds2	Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION WITH PERM SEEDING		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (WOODING)		Ds4	A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DIUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction sites, roadways and similar sites.

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHORDAN			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction exit to provide a means for removing mud and debris thereby protecting public streets.
Cw	CONSTRUCTION WASHOUT			DEDICATED CONCRETE TRUCK CHUTE WASHOUT AREA WITH STRAIN BAILS TO CONTAIN CONCRETE
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of hay or hay, burl, logs and poles, gravel, or a sand fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around storm drain inlets. The excavated area will be filled and stabilized on completion of construction activities.
TS	TEMPORARY SEDIMENT BURN			A basin created by excavation or a sand across a roadway. The surface water runoff is temporarily held allowing the bulk of the sediment to drop out.
St	STORMWATER OUTLET PROTECTION			A panel or section of strip of riprap placed at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater discharge point or structure to serve as a temporary sediment filter.
Fr	FILTER RENO			A temporary stone barrier constructed at storm drain inlets and pond outlets.
S2	CURB PILE FILTER			A temporary chain block wrapped in fabric riprap used for control measure and directly in front of fabric filter.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

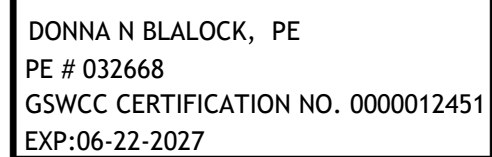
ALL EROSION & SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ONSITE INSPECTION BY THE ISSUING AUTHORITY.

1) ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

SPECIES (MIXTURE OF)	RATE/ACRE	PLANTING DATES
SUDAN (SWEET OR TIFT)	60 LBS	APRIL1-SEPT 1
ANNUAL RYE GRASS	40 LBS	AUG 1-APRIL 15

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE
REFER TO C-407 FOR FERTILIZER REQUIREMENTS

(IN FEET)
1 inch = 50 ft.



DESIGN DEVELOPMENT

2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY,
GEORGIA

No.	Submittal / Revision	APV	By	Date
	REVIEW COMMENTS			04/10/26

Designed By: CAS	Drawn By: CAS	Checked By: DNB
Issue Date: 04/10/2026	Project No.: 093489.000	Scale: 1"= 50'

Drawing No.:

C-401

Sheet 13 of 43



1. INSTALL STABILIZED CONSTRUCTION SITE(S) AND SWPPP INFORMATION SIGN.
2. INSTALL SILT FENCE(S) ON THE EXT. (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE).
3. PREPARE TEMPORARY PARKING AND STORAGE AREA.
4. G-1 DAY BMP INSPECTION REQUEST

THE GENERAL CONTRACTOR SHALL CONTACT CHA CONSULTING TO SCHEDULE AN INSPECTION OF THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERMITTER CONTROL BMP'S WITHIN 7 DAYS AFTER START OF CONSTRUCTION.
5. CONSTRUCT AND STABILIZE SEDIMENT BASIN(S) WITH APPROPRIATE OUTFALL STRUCTURES. (CLEAR ON THOSE AREAS NECESSARY TO INSTALL BASINS AND TRAPS.)
6. BEGIN CLEARING AND GRUBBING THE SITE.
7. BEGIN GRADING THE SITE.
8. START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.

DRAINAGE AREA = 1.59 AC
DISTURBED AREA = 1.59 AC
SEDIMENT STORAGE REQUIRED = 106.53 (67 CY/AC.)
SEDIMENT STORAGE PROVIDED = 114.30 CY
CLEANOUT VOLUME REQUIRED = 34.98 (22 CY/AC.)
CLEANOUT VOLUME PROVIDED = 66.71 CY
CLEANOUT VOLUME ELEVATION = 322.00

DRAINAGE AREA = 0.31 AC DISTURBED AREA = 0.31 AC SEDIMENT STORAGE REQUIRED =20.77 (67 CY/AC.) SEDIMENT STORAGE PROVIDED = 44.04 CY CLEANOUT VOLUME REQUIRED = 6.82(22 CY./AC.) CLEANOUT VOLUME PROVIDED = 8.07 CY CLEANOUT VOLUME ELEVATION = 322.00
--

PROVIDE TEMPORARY IRRIGATION OR WATERING, VIA WATER TRUCK, AS NEEDED TO ESTABLISH TEMPORARY AND PERMANENT VEGETATION UNTIL THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTION OR UNTIL THE NOT IS SUBMITTED IF A PERMANENT IRRIGATION SYSTEM ISN'T PLANNED. AREAS NOT HAVING A PERMANENT IRRIGATION SYSTEM SHALL BE IRRIGATED OR WATERED UNTIL THE NOT HAS BEEN SUBMITTED AND ACCEPTED.

REFER TO PLAN SHEET C-404 FOR FOR
GENERAL NOTES, MAINTENANCE NOTES,
SITE DATA & QUAD MAP

	PROPERTY LINE
	LIMITS OF DISTURBANCE
	CONTOUR ELEVATIONS
	STORM DRAIN
	LIMITS OF DRAINAGE SUB-BASIN
	SOIL SERIES BOUNDARY
	SILT FENCE

Disturbed Area Stabilization
(With Temporary Seeding)

Ds2



DEFINITION

The establishment of temporary vegetative cover with fast growing seedlings for seasonal protection on disturbed or denuded areas.

PURPOSE

- To reduce runoff and sediment damage of down stream resources
- To protect the soil surface from erosion
- To improve wildlife habitat
- To improve aesthetics
- To improve tilth, infiltration and aeration as well as organic matter for permanent plantings

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to six months but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to specification Ds1-Disturbed Area Stabilization (With Temporary Seeding).

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CONDITIONS

Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established. Note: Some species of temporary vegetation are not appropriate for companion crop plantings because of their potential to out-compete the desired species (e.g. annual ryegrass). Contact NRCS or the local SWCD for more information.

SPECIFICATIONS
Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall.

When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.

Seeding

Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, culti-packer-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand. See Table 6-4.1

Mulching

Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion potential. However, the use of mulch can often accelerate and enhance germination and vegetation establishment. Mulch without seeding should be considered for short term protection. Refer to Ds1 - Disturbed Area Stabilization (With Mulching Only).

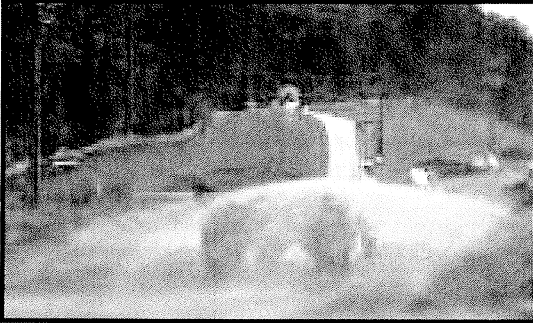
Irrigation

During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

6-30

Dust Control on
Disturbed Areas

Du



DEFINITION

Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE

- To prevent surface and air movement of dust from exposed soil surfaces.
- To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. Temporary Methods

Mulches. See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification Tac - Tackifiers. Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification Ds2 - Disturbed Area Stabilization (With Temporary Seeding).

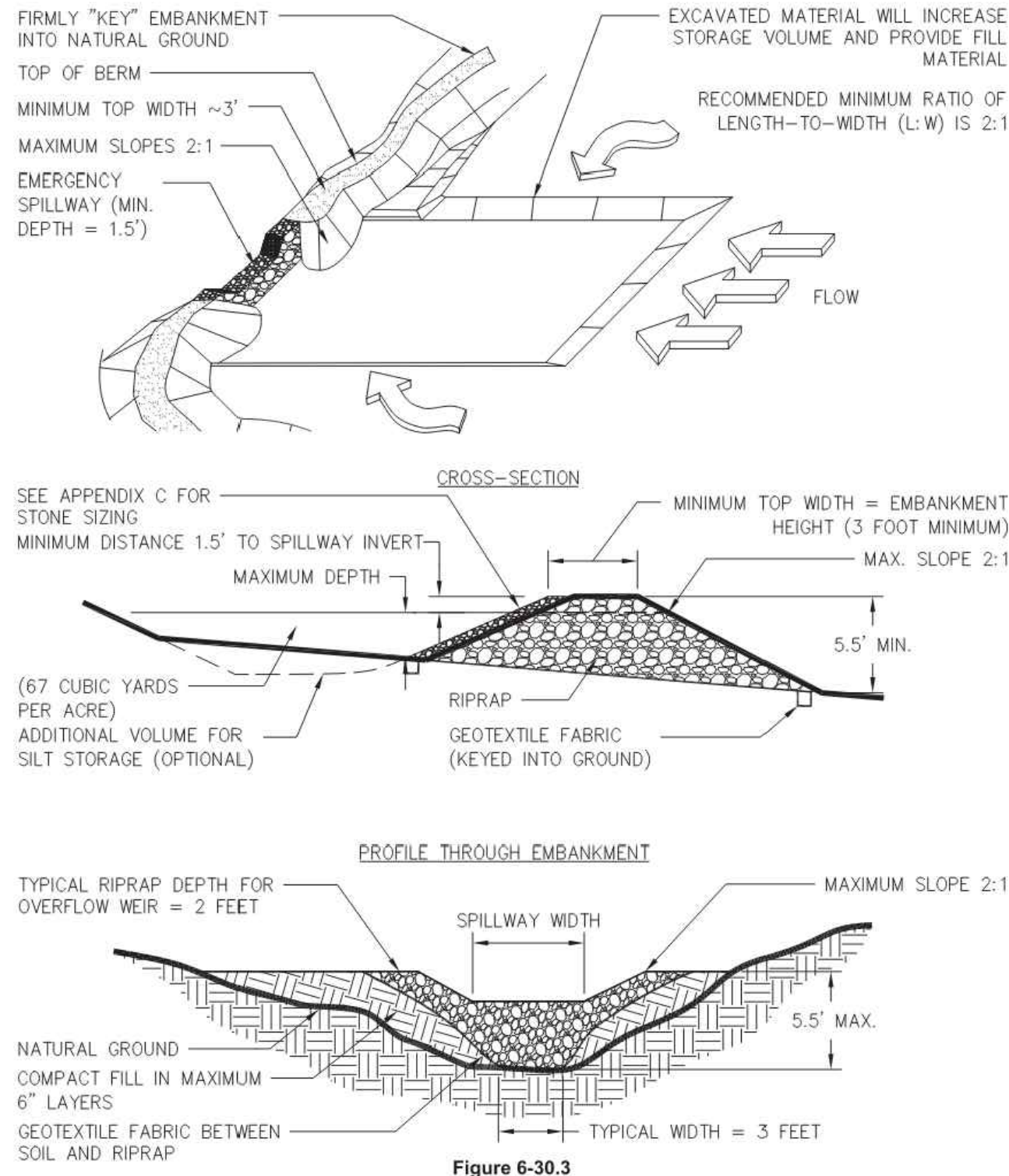
Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification Tac - Tackifiers.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency

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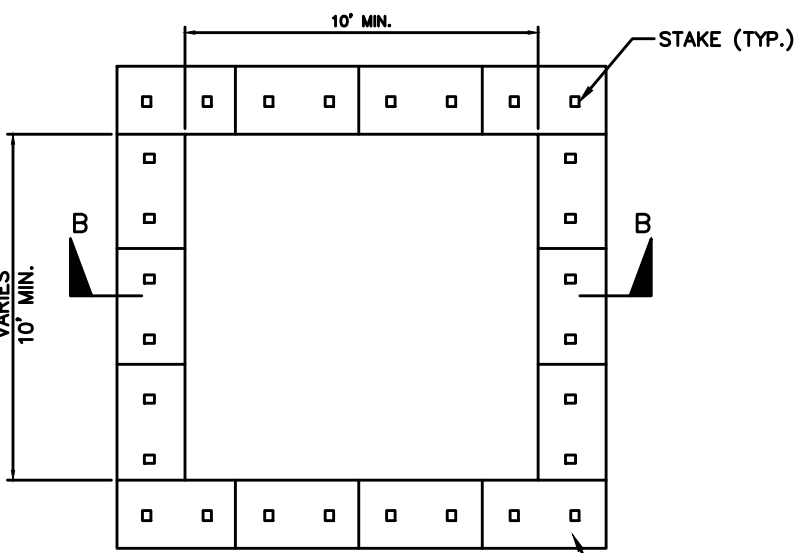
6-55

TEMPORARY SEDIMENT TRAP
COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT
ROCK OUTLET

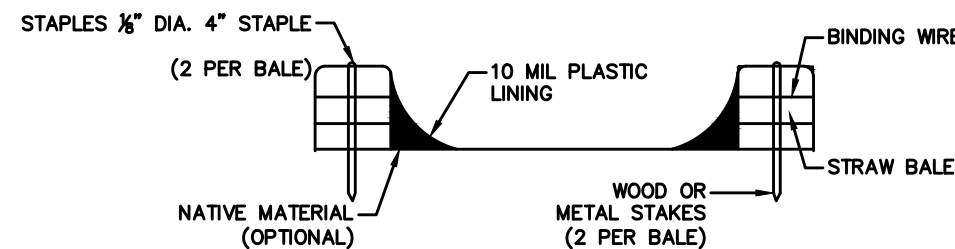


CONCRETE WASHOUT DETAIL

STRAW BALE BARRIER CONCRETE
WASHOUT



PLAN
NOT TO SCALE
TYPE "ABOVE GRADE"
WITH STRAW BALES



SECTION B-B
NOT TO SCALE

LETTERS A MINIMUM
OF 5" IN HEIGHT

CONCRETE WASHOUT SIGN DETAIL

NOT TO SCALE

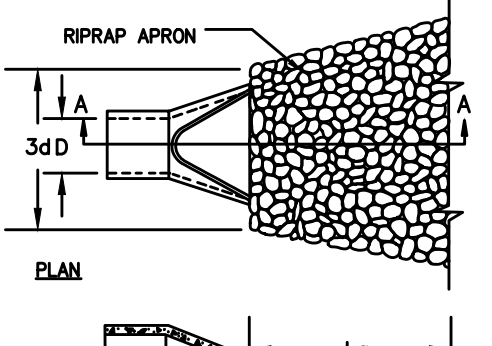
NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"x24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.

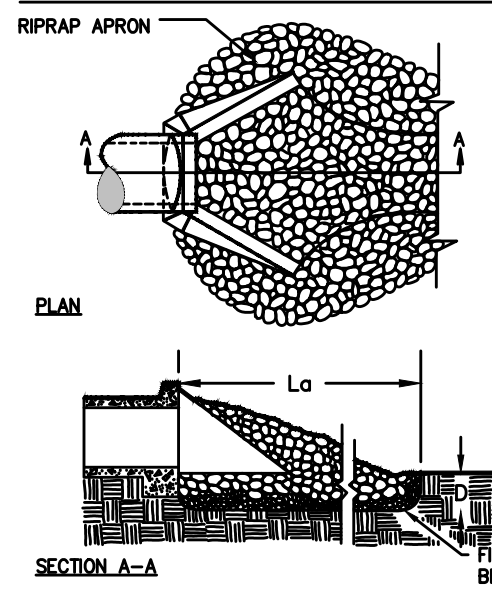
SCALE: NTS

RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



PIPE OUTLET TO WELL DEFINED CHANNEL



St

NOTES:

1. L_g IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

FILTER BEDDING STONE

N.S.A. # (1)	SIZE IN INCHES (SQ. OPENING)		
	MAX.	AVG. (2)	MIN. (3)
FS-1	3/8"	#30 MESH	#100 MESH
FS-2	2.0"	#4	#100 MESH
FS-3	6.5"	2.5"	#16

- 1) NATIONAL STONE ASSOCIATION
- 2) AT LEAST 50% OF THE INDIVIDUAL STONE PARTICLES MUST BE EQUAL OR LARGER THAN THIS LISTED SIZE
- 3) 85-100% OF THE INDIVIDUAL STONE PARTICLES MAY BE LESS THAN LISTED SIZE

RIP-RAP N.S.A.# NO.	SIZE INCHES (SQ. OPENING)			FILTER STONE N.S.A.# NO.	SIZE INCHES (SQ. OPENING)		
	MAX.	AVG. (2)	MIN.		MAX.	AVG. (2)	MIN.
R-3	6"	3"	3"	FS-2	2"	#4	#100 MESH
R-4	12"	6"	3"				
R-5	18"	9"	3"				

1. NATIONAL STONE ASSOCIATION
2. AT LEAST 50% OF THE INDIVIDUAL STONE PARTICLES MUST BE EQUAL OR LARGER THAN THIS LISTED SIZE.
3. 85-100% OF THE INDIVIDUAL STONE PARTICLES MAY BE LESS THAN LISTED SIZE.

REFER TO RIP RAP CHART ON PLAN FOR DIMENSIONS AND STONE SIZE FOR EACH RIP RAP LOCATION

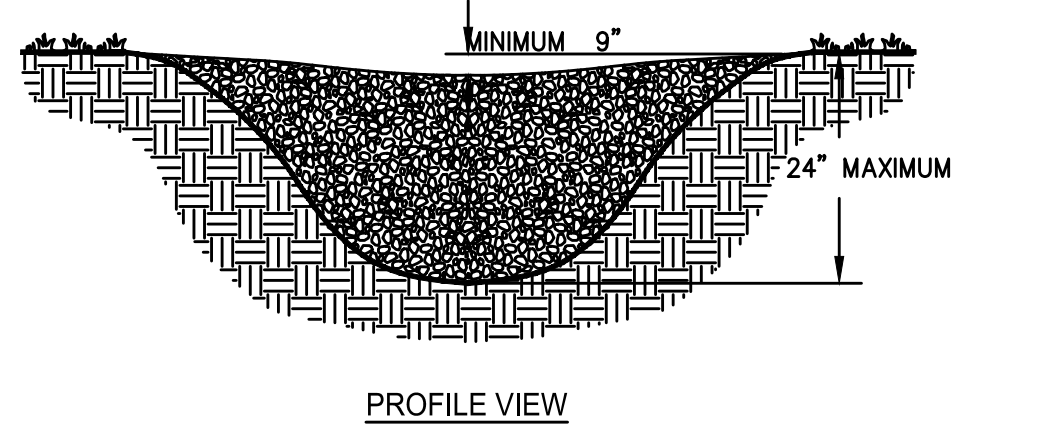
STORM DRAIN OUTLET PROTECTION						
NUMBER	AVG. STONE SIZE (ASO) (inches)	APRON LENGTH (L _g) (feet)	APRON WIDTH AT HEADWALL(W ₁) (feet)	APRON WIDTH DOWNSTREAM (OF PIPE)(W ₂) (feet)	MIN. APRON THICKNESS(D) (inches)	
#	6"	2'	2'	2'	6"	

NSA NUMBER	SIZE IN INCHES				FILTER STONE N.S.A. # (3)
	d MAX (inches)	AVG. (1) d go (inches)	MIN. (2) (inches)	MIN. APRON THICKNESS (inches)	
R-1	1.50"	0.75"	(N6.8)	2.25"	FS-1
R-2	3"	1.50"	1"	4.5"	FS-1
R-3	6"	3"	2"	9"	FS-2
R-4	12"	6"	2"	18"	FS-2
R-5	18"	9"	2"	27"	FS-2
R-6	24"	12"	2"	36"	FS-3
R-7	30"	15"	2"	45"	FS-3
R-8	48"	24"	10"	72"	FS-3

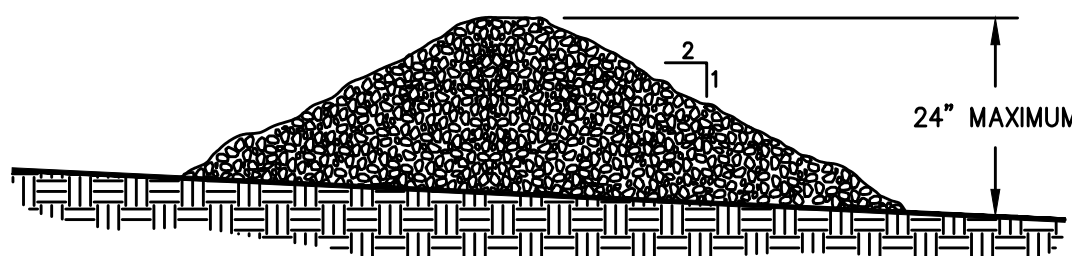
- (1) "AVERAGE SIZE" IS THAT SIZE EXCEEDED BY AT LEAST 50% OF THE TOTAL WEIGHT OF THE TONNAGE SHIPPED. THE SPECIFIED NOMINAL TOP SIZE SHALL CONSIST OF PIECES CLOSER THAN THE "AVERAGE" SIZE (NOMINALLY HALF THE SPECIFIED NOMINAL TOP SIZE).
- (2) DIMENSIONS SHALL BE THE MINIMUM SIZE SHOWN SHALL NOT EXCEED 15% OF THE TONNAGE SHIPPED.
- (3) NATIONAL STONE ASSOCIATION

STONE CHECK DAM

CROSS SECTION



PROFILE VIEW

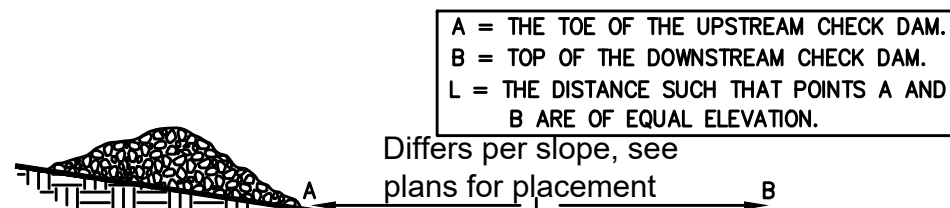


NOTES:

1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

STONE CHECK DAM-1

SPACING BETWEEN CHECK DAMS



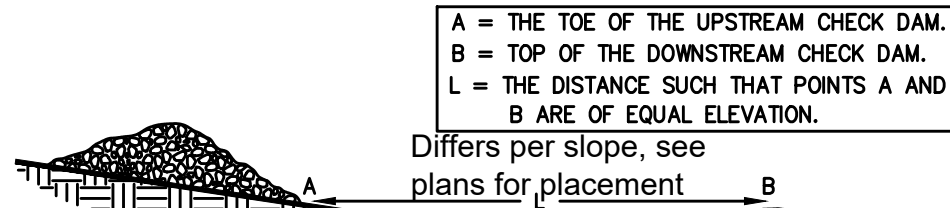
A = THE TOE OF THE UPSTREAM CHECK DAM.
B = TOP OF THE DOWNSTREAM CHECK DAM.
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.

Differs per slope, see plans for placement

1. CFS IN THE CHANNEL/DITCH THAT THE CHECK DAM IS BEING USED IN IS: 3.00 CFS ABOVE 2.0 CFS: YES
2. IF YES, LIST BMP USED IN CONJUNCTION WITH CHECK DAMS: CHANNEL STABILIZATION (VEGETATIVE LINING Ch-1)

STONE CHECK DAM-2

SPACING BETWEEN CHECK DAMS



A = THE TOE OF THE UPSTREAM CHECK DAM.
B = TOP OF THE DOWNSTREAM CHECK DAM.
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.

Differs per slope, see plans for placement

1. CFS IN THE CHANNEL/DITCH THAT THE CHECK DAM IS BEING USED IN IS: 8.00 CFS ABOVE 2.0 CFS: YES
2. IF YES, LIST BMP USED IN CONJUNCTION WITH CHECK DAMS: CHANNEL STABILIZATION (VEGETATIVE LINING Ch-1)



Sustainable Design
Consultants, LLC



DONNA N. BLALOCK, PE
PE # 032668
GSWCC CERTIFICATION NO. 0000012451
EXP:06-22-2027

BOYKIN ROAD
PARK - PARK
IMPROVEMENTS

DESIGN
DEVELOPMENT

2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY,
GEORGIA

No.	Submittal / Revision	Appr	By	Date

REVIEW COMMENTS

EROSION
SEDIMENTATION &
POLLUTION
CONTROL DETAILS

Designed By: CAS	Drawn By: CAS	Checked By: DNB
Issue Date: 04/10/2026	Project No.: 093489.000	Scale:

Drawing No.:

C-407

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Disturbed Area Stabilization
(With Mulching Only)

Ds1



DEFINITION
Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

- PURPOSE**
- To reduce runoff and erosion
 - To conserve moisture
 - To prevent surface compaction or crusting
 - To control undesirable vegetation
 - To modify soil temperature
 - To increase biological activity in the soil

REQUIREMENT FOR REGULATORY COMPLIANCE
Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months.

If any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to **Ds2 -Dis-**

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turbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding).

SPECIFICATIONS
Mulching Without Seeding
This standard applies to graded or cleared areas where seedlings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

- Site Preparation**
1. Grade to permit the use of equipment for applying and anchoring mulch.
 2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
 3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials
Select one of the following materials and apply at the depth indicated:

1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

Applying Mulch
When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.

2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Apply polyethylene film on exposed areas.

Anchoring Mulch
1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifiers, binders and hydraulic mulch with tackifier specifically desgined for tacking straw can be substituted for emulsified asphalt. Please refer to specification **Tac-Tackifiers**. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.

2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.

3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

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Disturbed Area Stabilization
(With Permanent Vegetation)

Ds3



DEFINITION
The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization.

- PURPOSE**
- To protect the soil surface from erosion
 - To reduce damage from sediment and runoff to down-stream areas
 - To improve wildlife habitat and visual resources
 - To improve aesthetics

REQUIREMENT FOR REGULATORY COMPLIANCE
This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. **Final Stabilization** means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by the GA EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures.

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Table 6-5.1. Fertilizer Requirements

Ds3

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2/
	Second	6-12-12	1000 lbs./ac.	—
	Maintenance	10-10-10	400 lbs./ac.	30
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	—
	Maintenance	0-10-10	400 lbs./ac.	—
3. Ground covers	First	10-10-10	1300 lbs./ac. 3/	—
	Second	10-10-10	1300 lbs./ac. 3/	—
	Maintenance	10-10-10	1100 lbs./ac.	—
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	—
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	—
	Maintenance	0-10-10	700 lbs./ac. 4/	—
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/6/
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2/
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.
8. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac./6/
	Second	0-10-10	1000 lbs./ac.	—
	Maintenance	0-10-10	400 lbs./ac.	—

- 1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

6-41

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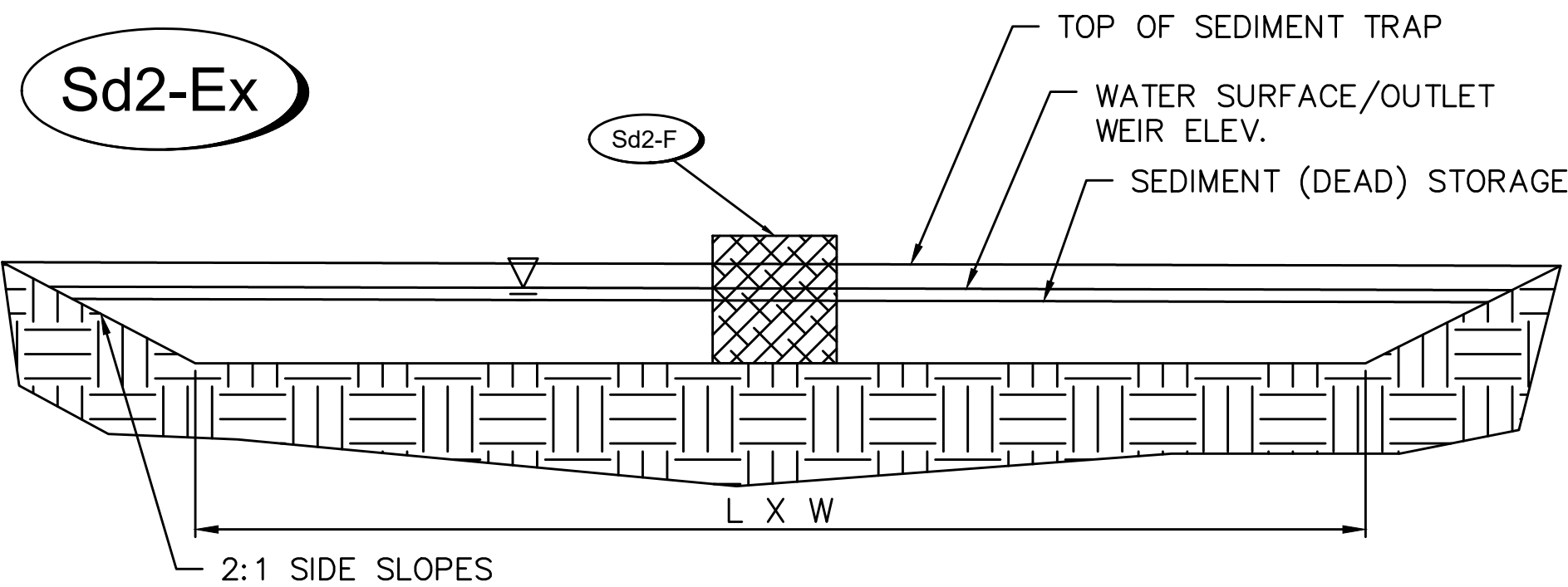
EXCAVATED INLET SEDIMENT TRAP CALCULATIONS

Sd2-Ex

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

If the EXCAVATED INLET SEDIMENT TRAP is used, show the following information:

Post-Basin:	2	7	8	9	10
1) <i>Drainage area (acres):</i>	0.15	0.28	0.17	0.41	0.22
2) <i>Required sediment storage = 67 cy/ac * drainage area (CY):</i>	10.05	18.76	11.39	27.47	14.74
<i>Required sediment storage (CF):</i>	271.35	506.52	307.53	741.69	397.98
3) <i>Assume excavation depth (minimum of 1.5 ft) (ft):</i>	1.5	1.5	2	2	2
4) <i>Assume slope of sides (shall not be steeper than 2:1) (X:1)</i>	2	2	2	2	2
5) <i>Determine required surface area: SA(min) = Required Sediment storage / excavation depth (SF):</i>	180.9	337.68	153.765	370.845	198.99
6) <i>Assume shape of excavation and determine dimensions. (A rectangular shape with 2:1 length to width ratio is recommended.)</i>					
<i>Shape:</i>	Rect.	Tri.	Rect.	Rect.	Rect.
<i>Length (ft):</i>	10	25	20	25	20
<i>Width (ft):</i>	20	28	8	15	10
<i>Diameter (if applicable) (ft):</i>	N/A	N/A	N/A	N/A	N/A
<i>Actual size (SF):</i>	200.00	350.00	160.00	375.00	200.00
<i>Difference:</i>	19	12	6	4	1



NOTE:
THE OUTLET WEIRS OF THE EXCAVATED INLET TRAPS SHALL BE ELEVATED ABOVE THE DEAD STORAGE TO ENSURE STORMWATER DISCHARGE OCCURS AT THE WATER SURFACE.

EXCAVATED INLET SEDIMENT TRAP TYPICAL SECTION

DONNA N. BLALOCK, PE
PE # 032668
GSWCC CERTIFICATION NO. 0000012451
EXP-06-22-2027

IF A MEMBER OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT INCLUDING THE NOTATION ALTERED BY FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A BRIEF DESCRIPTION OF THE ALTERATION.

BOYKIN ROAD
PARK - PARK
IMPROVEMENTS

DESIGN
DEVELOPMENT
2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY,
GEORGIA

No.	Submittal / Revision	App	By	Date

EROSION
SEDIMENTATION &
POLLUTION
CONTROL DETAILS

Designed By: CAS	Drawn By: CAS	Checked By: DNB
Issue Date: 04/10/2026	Project No.: 093489.000	Scale:

BOYKIN ROAD PARK - PARK IMPROVEMENTS

CONSTRUCTION
DOCUMENTS

2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY,
GEORGIA

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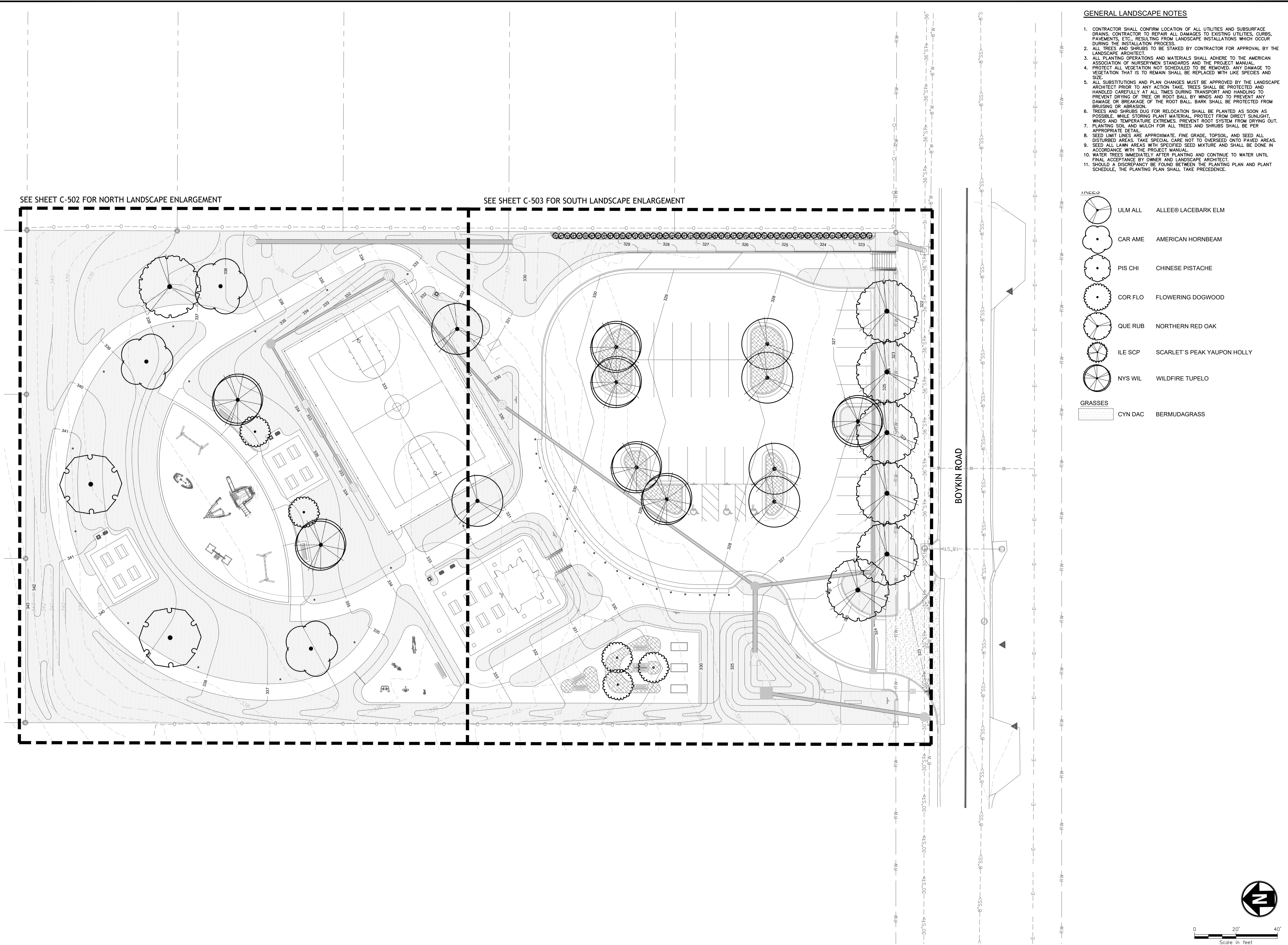
LANDSCAPE PLAN

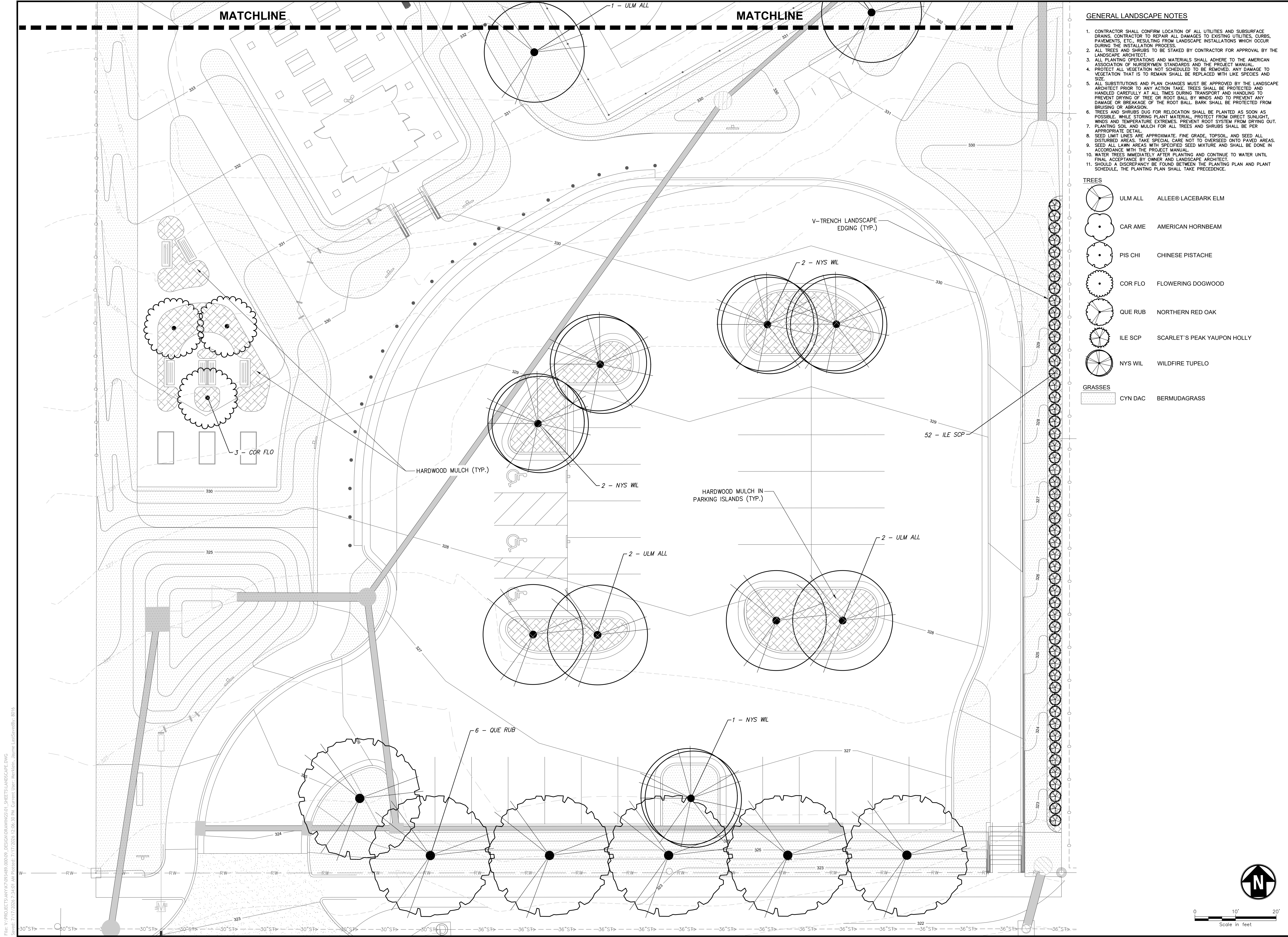
Drawn By: W	Drawn By: JM	Checked By: PG
Date: 7/26	Project No.: 093489.000	Scale: 1" = 20'

Drawing No.:

C-501

Page 21 of 42





GENERAL LANDSCAPE NOTES

1. CONTRACTOR SHALL CONFIRM LOCATION OF ALL UTILITIES AND SUBSURFACE DRAINS. CONTRACTOR TO REPAIR ALL DAMAGES TO EXISTING UTILITIES, CURBS, PAVEMENTS, ETC., RESULTING FROM LANDSCAPE INSTALLATIONS WHICH OCCUR DURING THE INSTALLATION PROCESS.
2. ALL TREES AND SHRUBS TO BE STAKED BY CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT.
3. ALL PLANTING OPERATIONS AND MATERIALS SHALL ADHERE TO THE AMERICAN ASSOCIATION OF NURSERMEN STANDARDS AND THE PROJECT MANUAL.
4. PROTECT ALL VEGETATION NOT SCHEDULED TO BE REMOVED. ANY DAMAGE TO VEGETATION THAT IS TO REMAIN SHALL BE REPLACED WITH LIKE SPECIES AND SIZE.
5. ALL SUBSTITUTIONS AND PLAN CHANGES MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY ACTION TAKE. TREES SHALL BE PROTECTED AND HANDLED CAREFULLY AT ALL TIMES DURING TRANSPORT AND HANDLING TO PREVENT DRYING OF TREE OR ROOT BALL BY WINDS AND TO PREVENT ANY DAMAGE OR BREAKAGE OF THE ROOT BALL. BARK SHALL BE PROTECTED FROM BRUISING OR ABRASION.
6. TREES AND SHRUBS DUG FOR RELOCATION SHALL BE PLANTED AS SOON AS POSSIBLE. WHILE STORING PLANT MATERIAL, PROTECT FROM DIRECT SUNLIGHT, WINDS AND TEMPERATURE EXTREMES. PREVENT ROOT SYSTEM FROM DRYING OUT.
7. PLANTING SOIL AND MULCH FOR ALL TREES AND SHRUBS SHALL BE PER APPROPRIATE DETAIL.
8. SEED LIMIT LINES ARE APPROXIMATE. FINE GRADE, TOPSOIL, AND SEED ALL DISTURBED AREAS. TAKE SPECIAL CARE NOT TO OVERSEED ONTO PAVED AREAS.
9. SEED ALL LAWN AREAS WITH SPECIFIED SEED MIXTURE AND SHALL BE DONE IN ACCORDANCE WITH THE PROJECT MANUAL.
10. WATER TREES IMMEDIATELY AFTER PLANTING AND CONTINUE TO WATER UNTIL FINAL ACCEPTANCE BY OWNER AND LANDSCAPE ARCHITECT.
11. SHOULD A DISCREPANCY BE FOUND BETWEEN THE PLANTING PLAN AND PLANT SCHEDULE, THE PLANTING PLAN SHALL TAKE PRECEDENCE.

TREES

- | | | |
|--|---------|-----------------------------|
| | ULM ALL | ALLEE® LACEBARK ELM |
| | CAR AME | AMERICAN HORNBEAM |
| | PIS CHI | CHINESE PISTACHE |
| | COR FLO | FLOWERING DOGWOOD |
| | QUE RUB | NORTHERN RED OAK |
| | ILE SCP | SCARLET'S PEAK YAUPON HOLLY |
| | NYS WL | WILDFIRE TUPELO |

GRASSES

- | | | |
|--|---------|--------------|
| | CYN DAC | BERMUDAGRASS |
|--|---------|--------------|

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7 East Congress Street, Suite 306
Savannah, GA 31401
912.721.6999 · www.chasolutions.com

Augusta
GEORGIA

Sustainable Design
Consultants, LLC

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BOYKIN ROAD
PARK - PARK
IMPROVEMENTS

CONSTRUCTION
DOCUMENTS

2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY,
GEORGIA

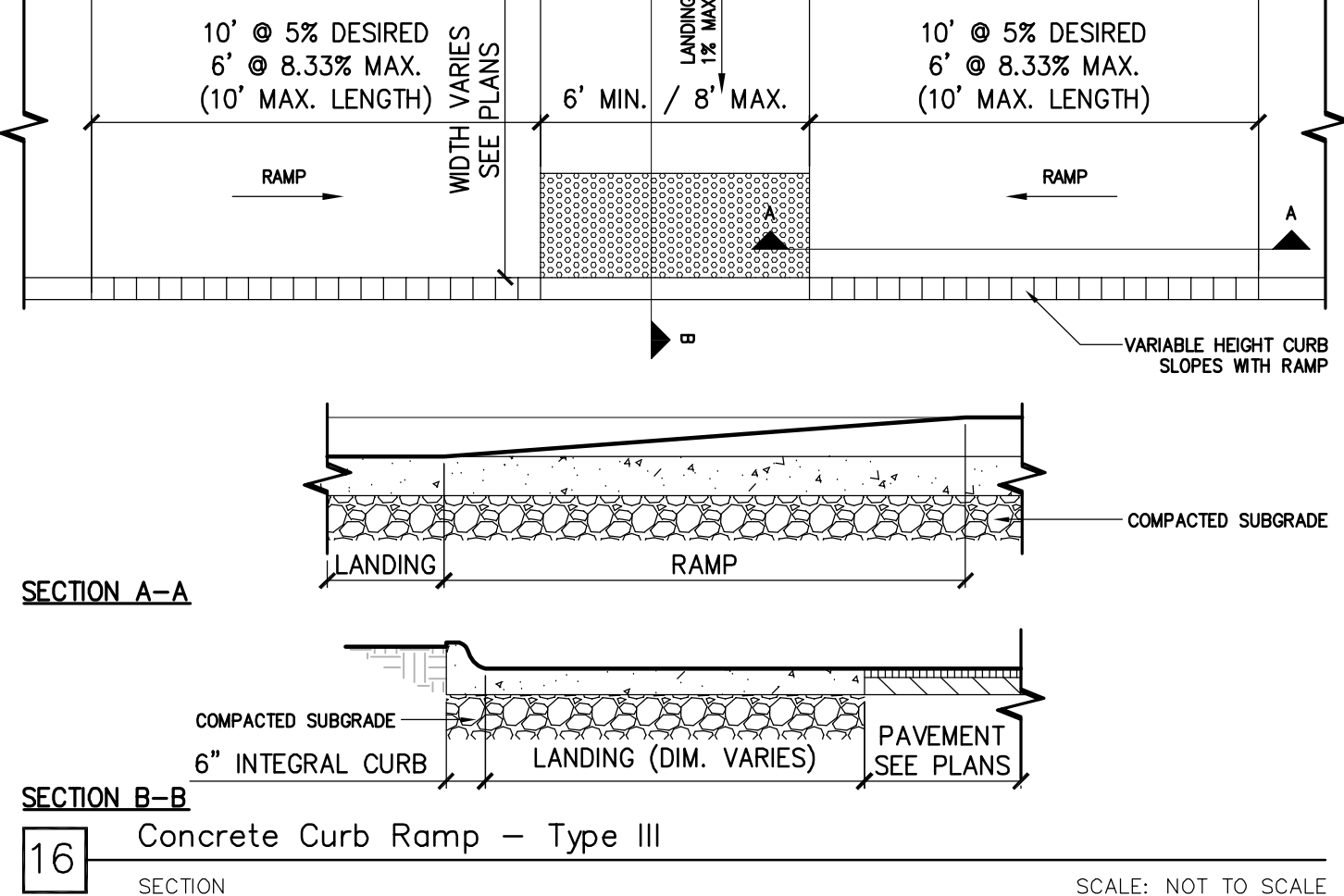
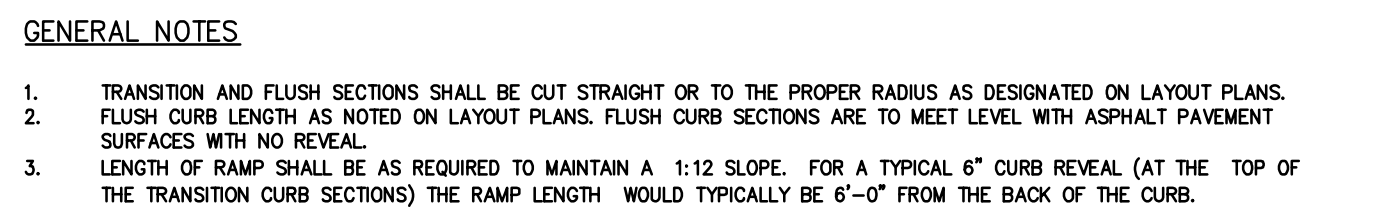
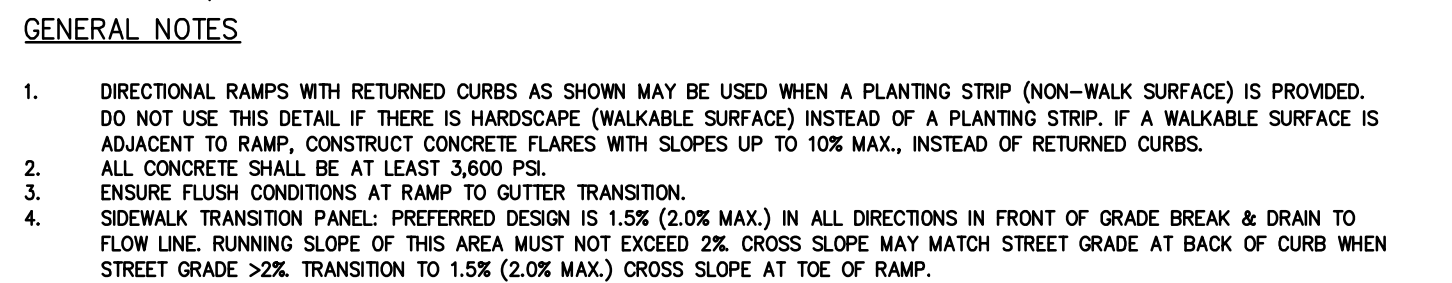
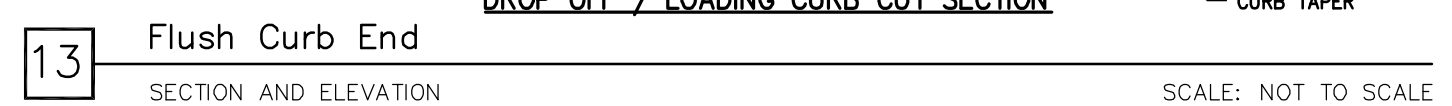
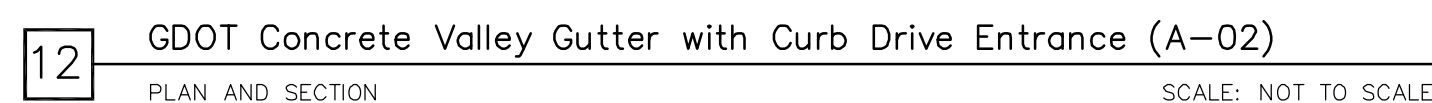
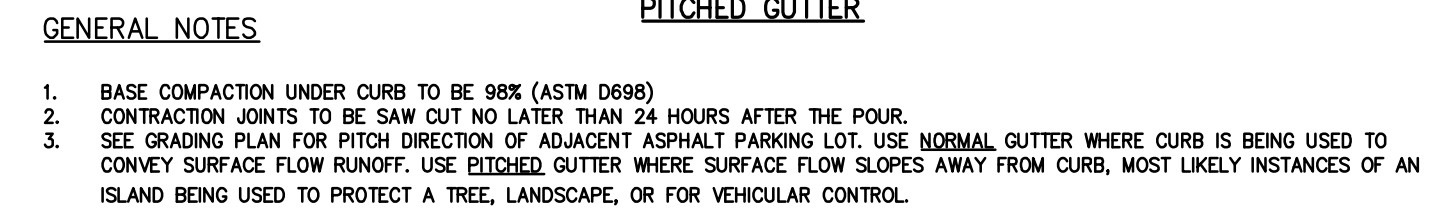
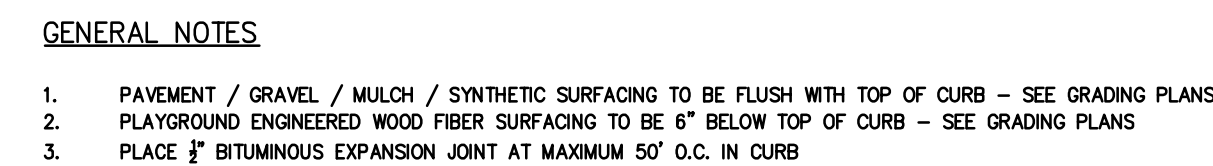
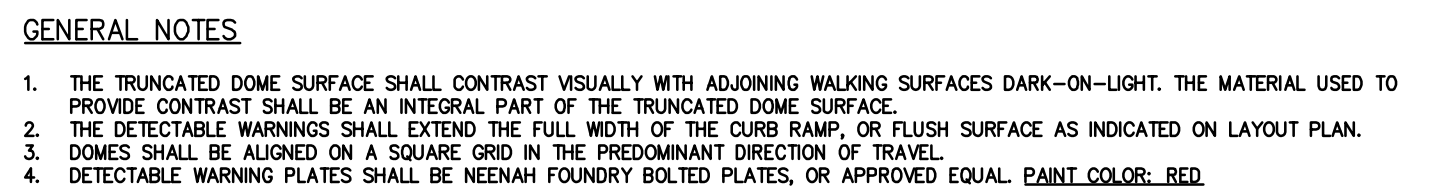
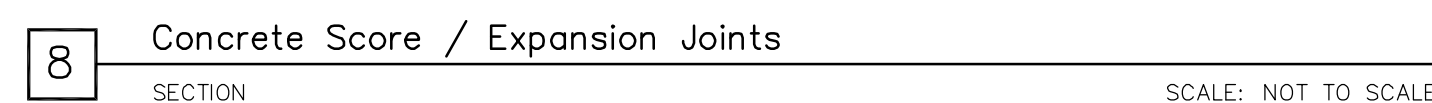
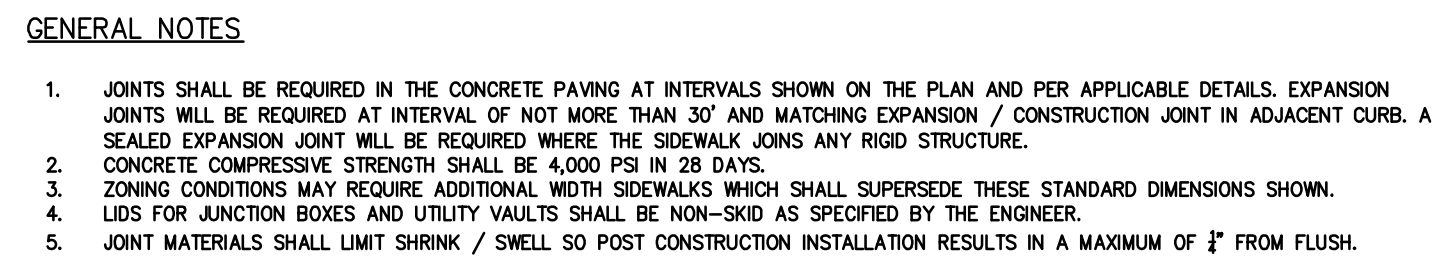
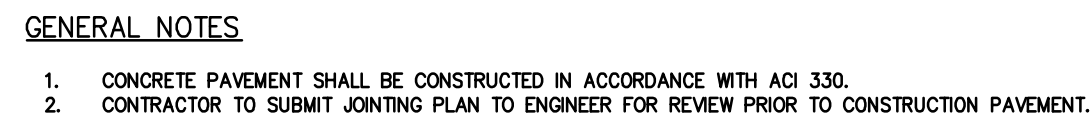
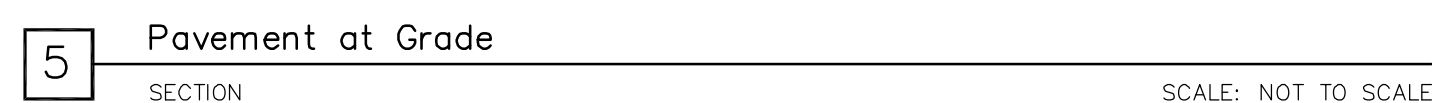
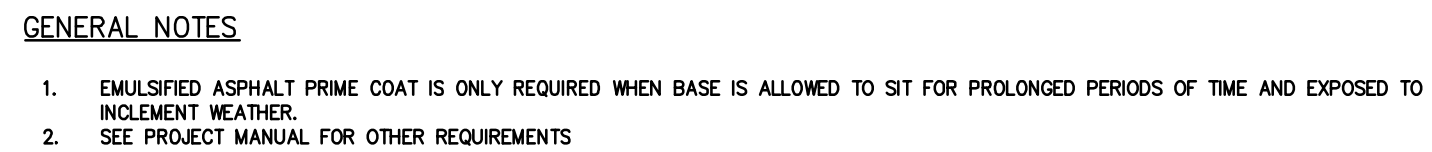
No.	Submittal / Revision	Appr	By	Date

LANDSCAPE PLAN -
SOUTH

Designed By: SDW	Drawn By: JM	Checked By: PG
Issue Date: 07/17/26	Project No.: 093489.000	Scale: 1" = 10'

Drawing No.:
C-503
Sheet 23 of 42

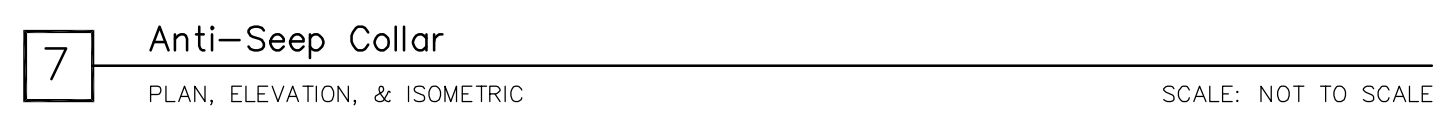
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2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY,
GEORGIA

Designed By: SDW	Drawn By: SDW	Checked By: PG
Issue Date: 07/17/26	Project No.: 093489.000	Scale: AS SHOWN

Sheet 27 of 42



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GDOT Standard Precast Reinforced Concrete Manhole Details

PLAN & SECTION

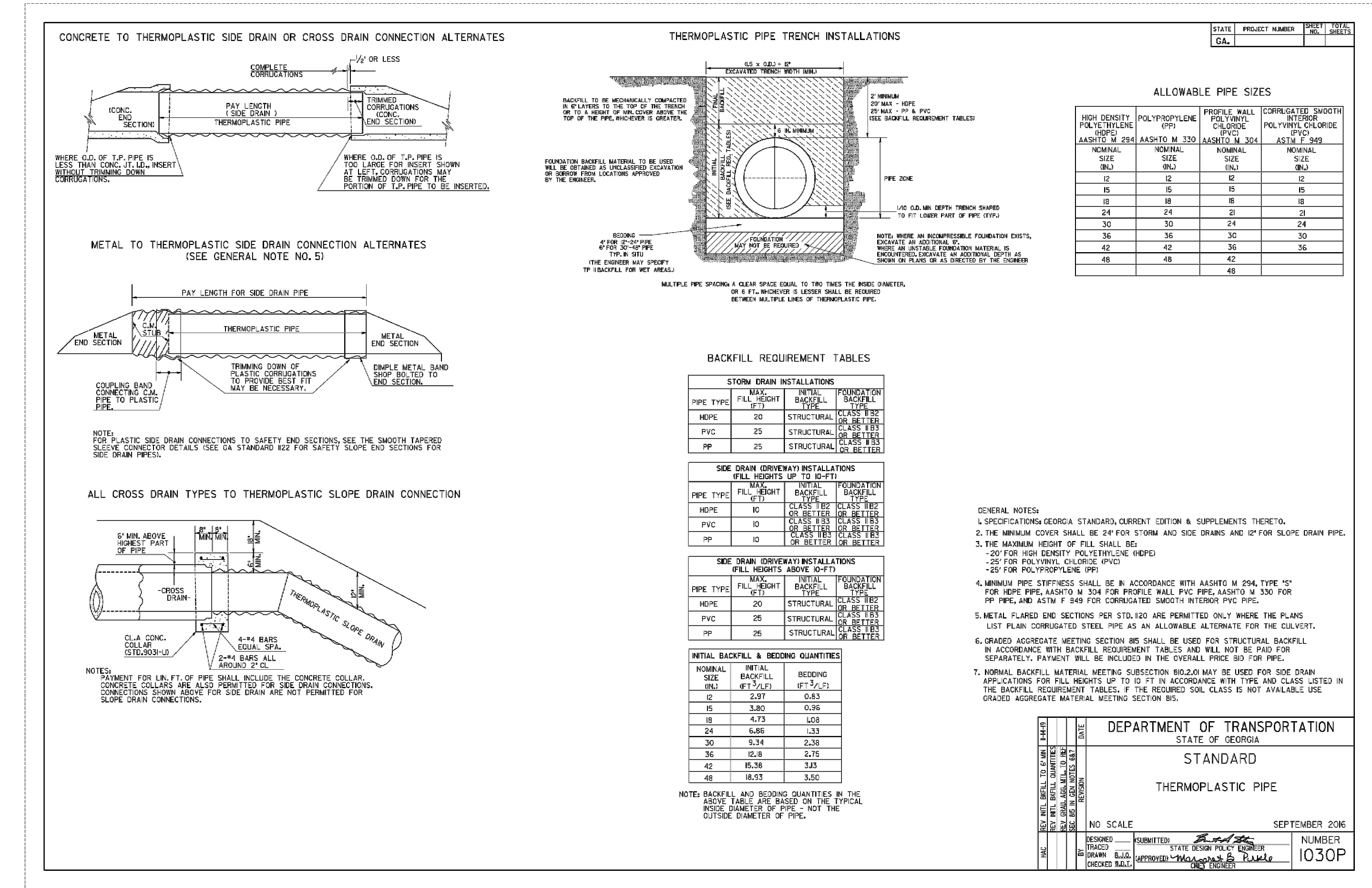
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Drain Basin in Paving

SECTION

SCALE: NOT TO SCALE



2

GDOT Thermoplastic Pipe Detail

SECTION

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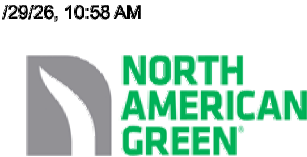
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Drain Basin in Landscape

SECTION

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1/29/26, 10:58 AM



ECMDS 7.0

North American Green
5401 St. Wendel-Cynthiana Rd.
Poseyville, Indiana 47633
Tel. 800.772.2040
>Fax 812.867.0247
www.nagreen.com
ECMDS v7.0

CHANNEL ANALYSIS
>>> D-2

Name	D-2
Discharge	5.45
Channel Slope	0.038
Channel Bottom Width	2
Left Side Slope	3
Right Side Slope	3
Low Flow Liner	C 6-12 in
Retardance Class	Mix (Sod and Bunch)
Vegetation Type	Very Good 80-95%
Vegetation Density	Sand (SP)
Soil Type	

C125BN

Phase	Reach	Discharge	Velocity	Normal Depth	Manning's N	Permissible Shear Stress	Calculated Shear Stress	Safety Factor	Remarks	Stable Pattern
C125BN Unvegetated Underlying Substrate	Straight	5.45 cfs	3.4 f/s	0.47 ft	0.04	2.45 lbf/ft ²	0.76 lbf/ft ²	3.21	STABLE	D

S150BN

Phase	Reach	Discharge	Velocity	Normal Depth	Manning's N	Permissible Shear Stress	Calculated Shear Stress	Safety Factor	Remarks	Stable Pattern
S150BN Unvegetated Underlying Substrate	Straight	5.45 cfs	3.4 f/s	0.47 ft	0.04	1.66 lbf/ft ²	0.76 lbf/ft ²	2.18	STABLE	D

Unreinforced Vegetation

Phase	Reach	Discharge	Velocity	Normal Depth	Manning's N	Permissible Shear Stress	Calculated Shear Stress	Safety Factor	Remarks	Stable Pattern
Unreinforced Vegetation Underlying Substrate	Straight	5.45 cfs	3.4 f/s	0.47 ft	0.04	4 lbf/ft ²	1.11 lbf/ft ²	3.59	STABLE	--

S75BN

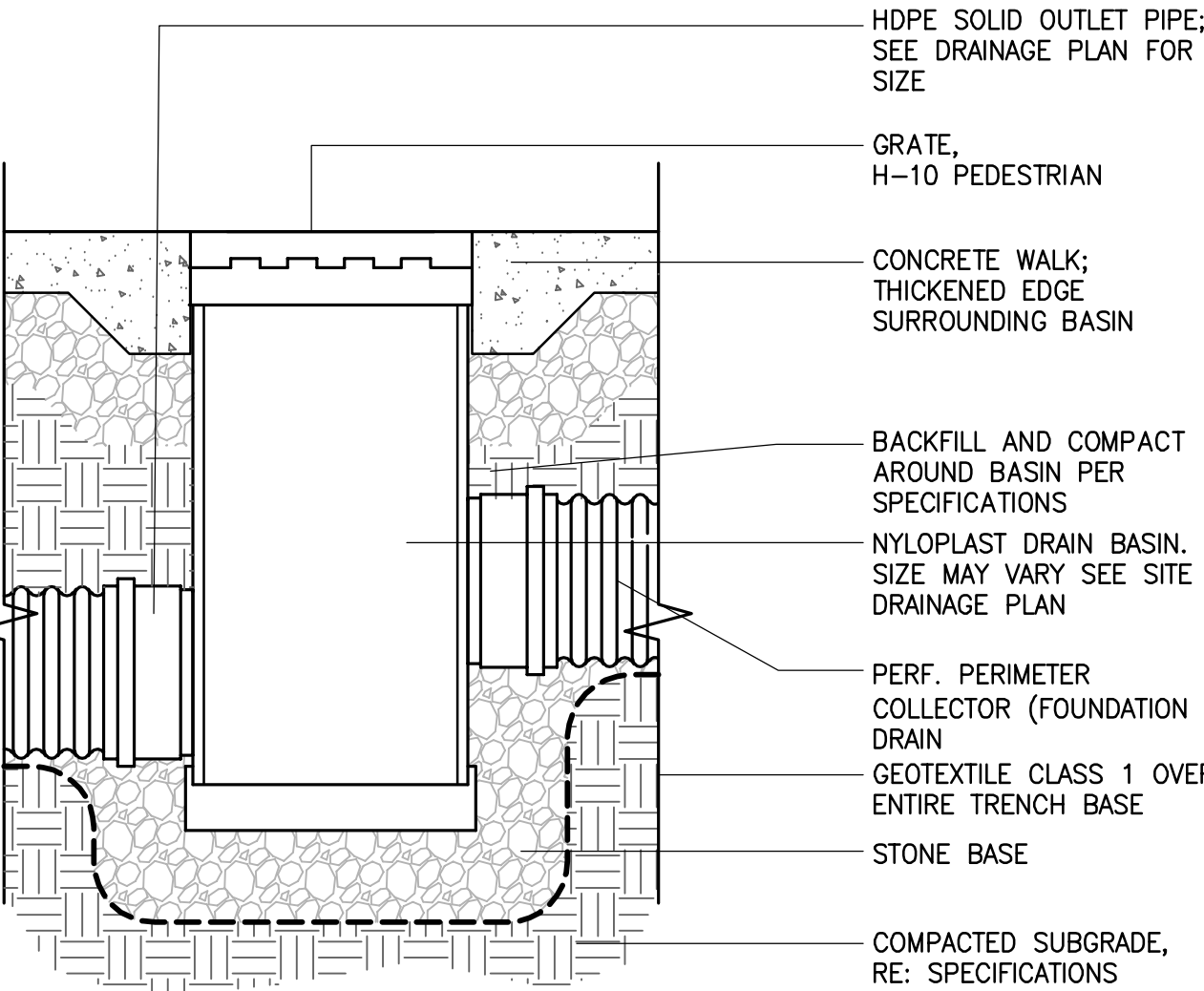
Phase	Reach	Discharge	Velocity	Normal Depth	Manning's N	Permissible Shear Stress	Calculated Shear Stress	Safety Factor	Remarks	Stable Pattern
S75BN Unvegetated Underlying Substrate	Straight	5.45 cfs	3.4 f/s	0.47 ft	0.04	1.4 lbf/ft ²	0.76 lbf/ft ²	1.83	STABLE	D

https://ecmids.com/project/167856/channel-analysis/307686/show

1/2

Reinforced Channel Analysis Calculations

CALCULATIONS



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SURVEYOR TO ALTER OR REPAIR ANY WORK, IF IN THE MEANING
THE SHAPE OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING
ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND
SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE
WORKMAN, ALTERED BY FOLLOWING BY THEIR SIGNATURE, THE
DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION
OF THE ALTERATION.

BOYKIN ROAD
PARK - PARK
IMPROVEMENTS

CONSTRUCTION
DOCUMENTS

2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY,
GEORGIA

No. Submittal / Revision Appr By Date

No.	Submittal / Revision	Appr	By	Date

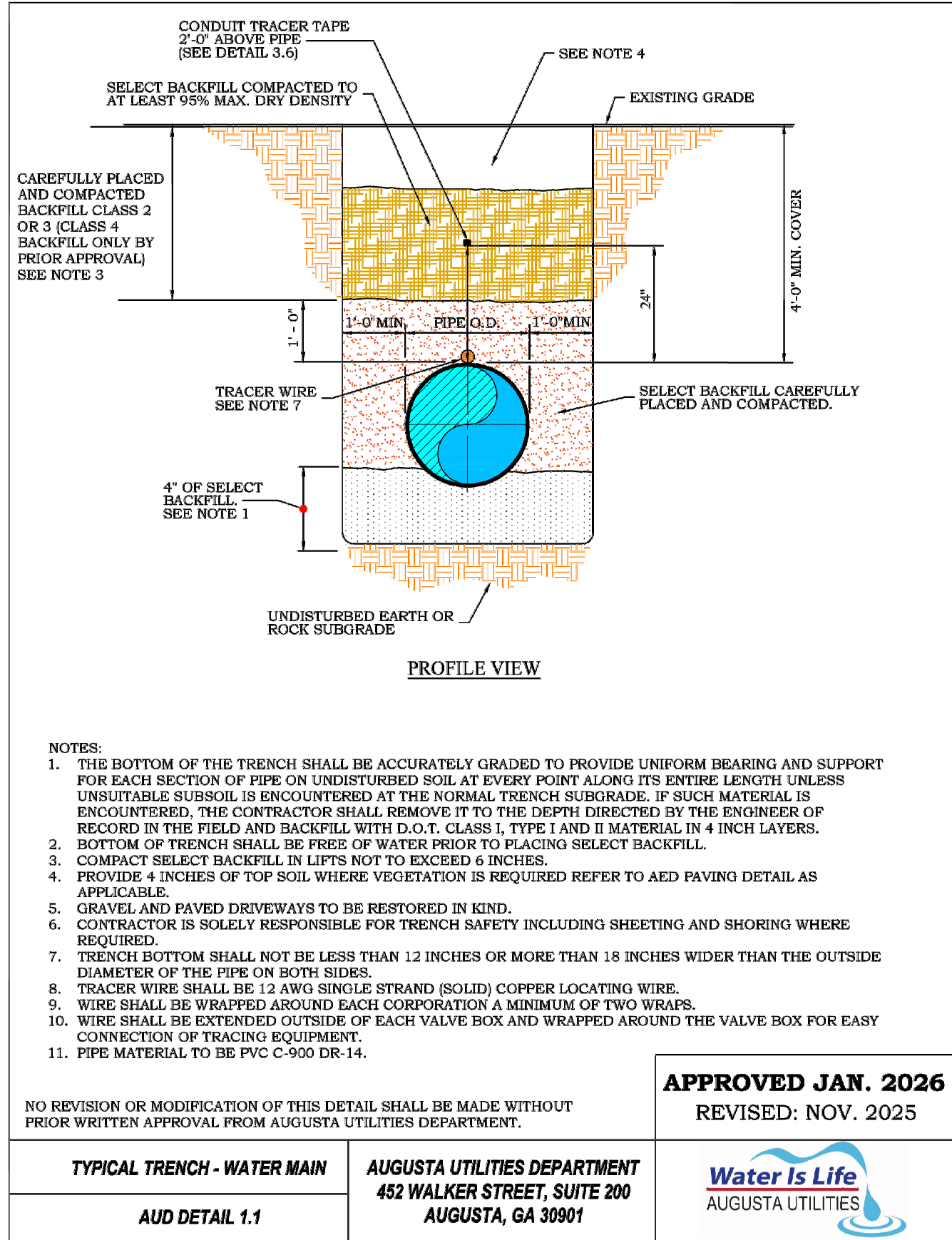
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SECTIONS

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Drawing No.:

C-604

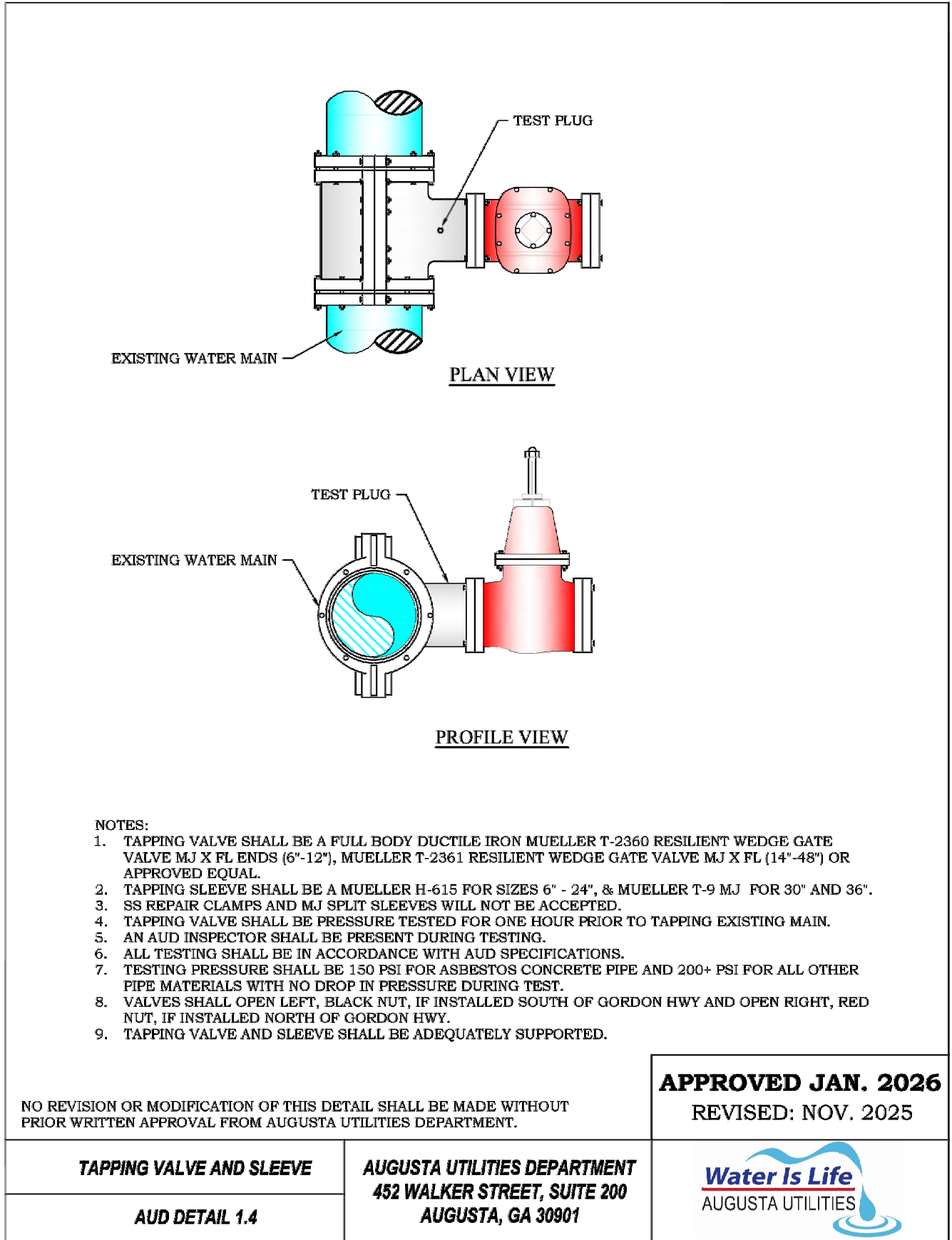
Sheet 28 of 42



1 Typical Trench – Water Main

SECTION

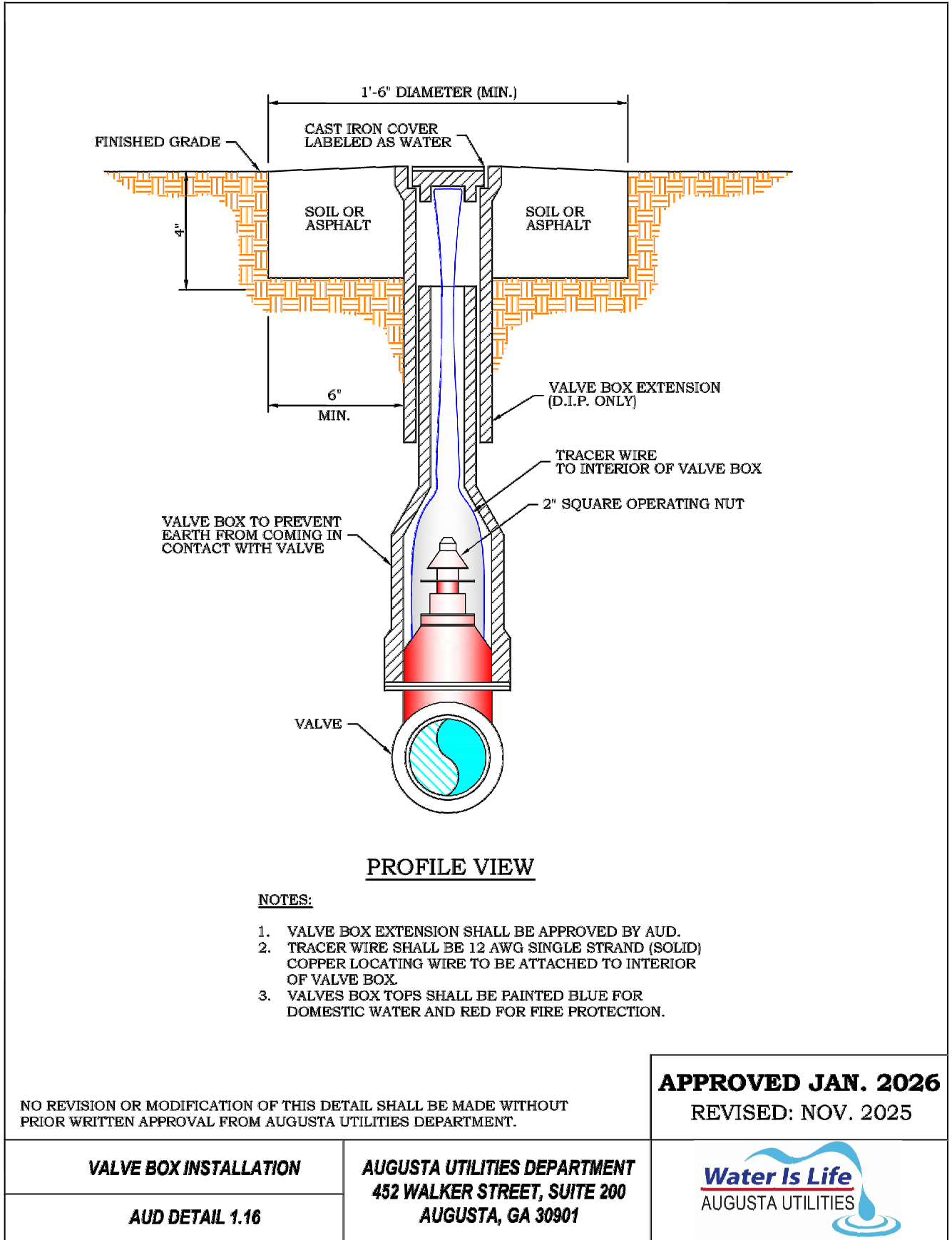
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3 Tapping Valve and Sleeve

PLAN AND PROFILE

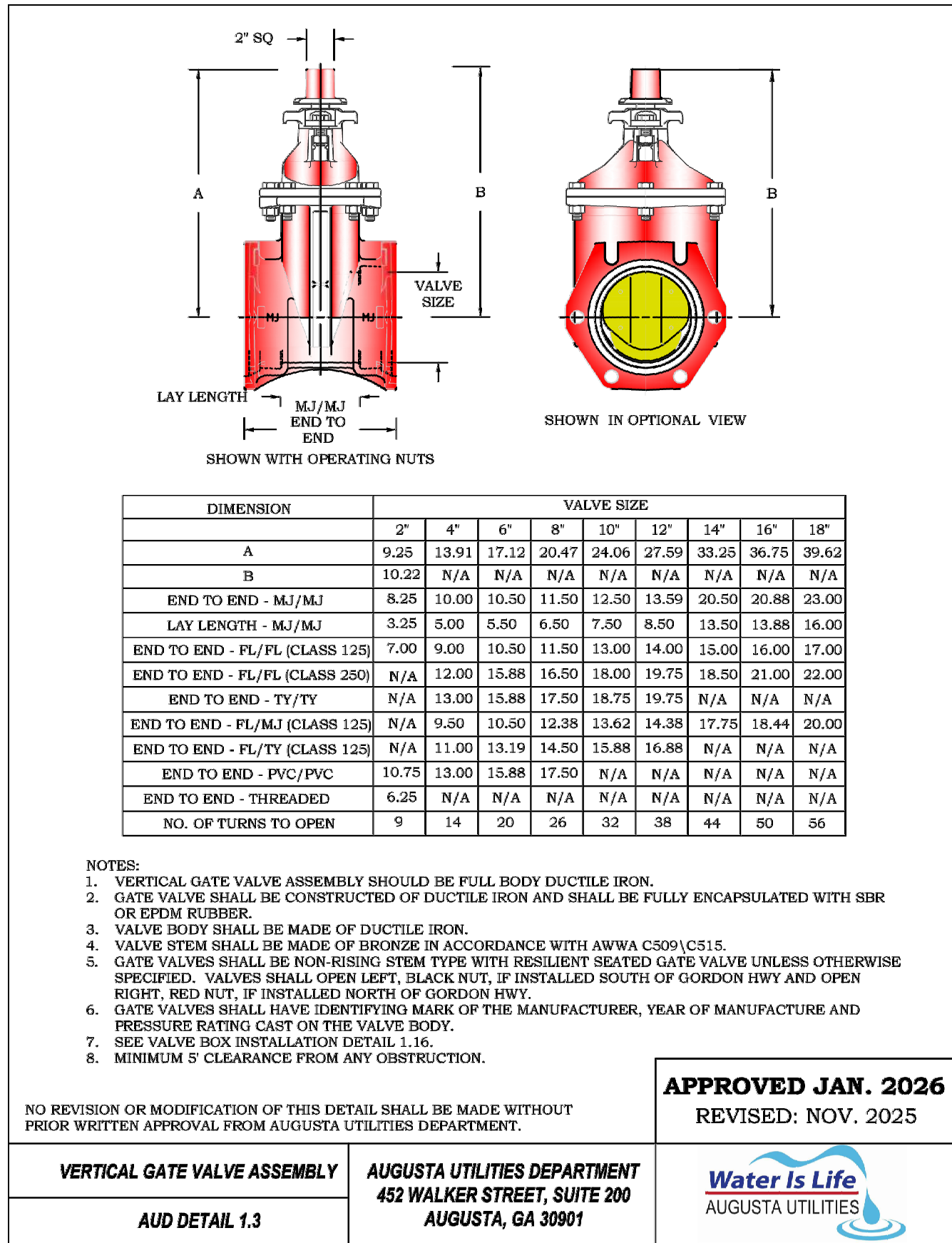
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7 Valve Box Installation

SECTION

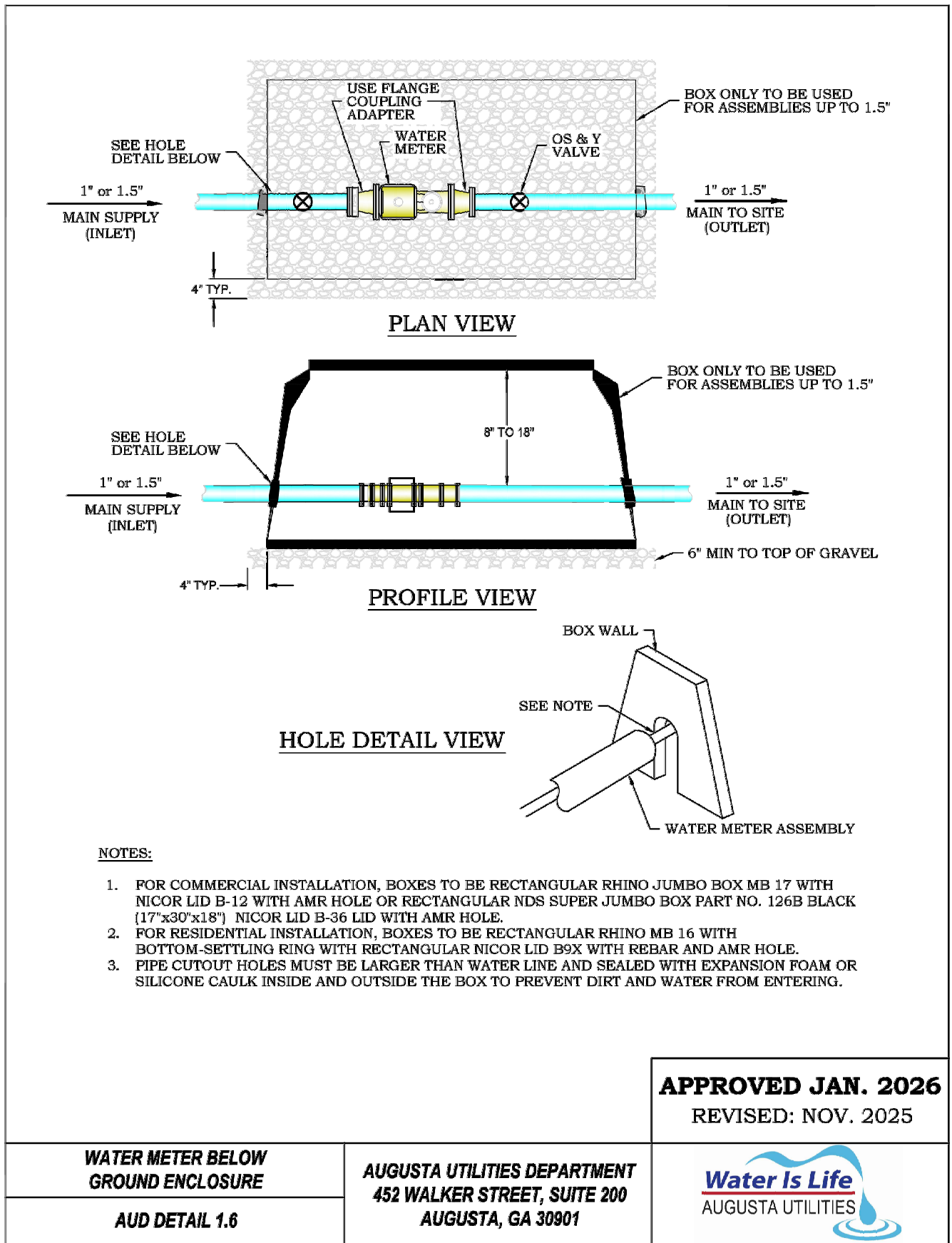
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2 Vertical Gate Valve Assembly

SECTION

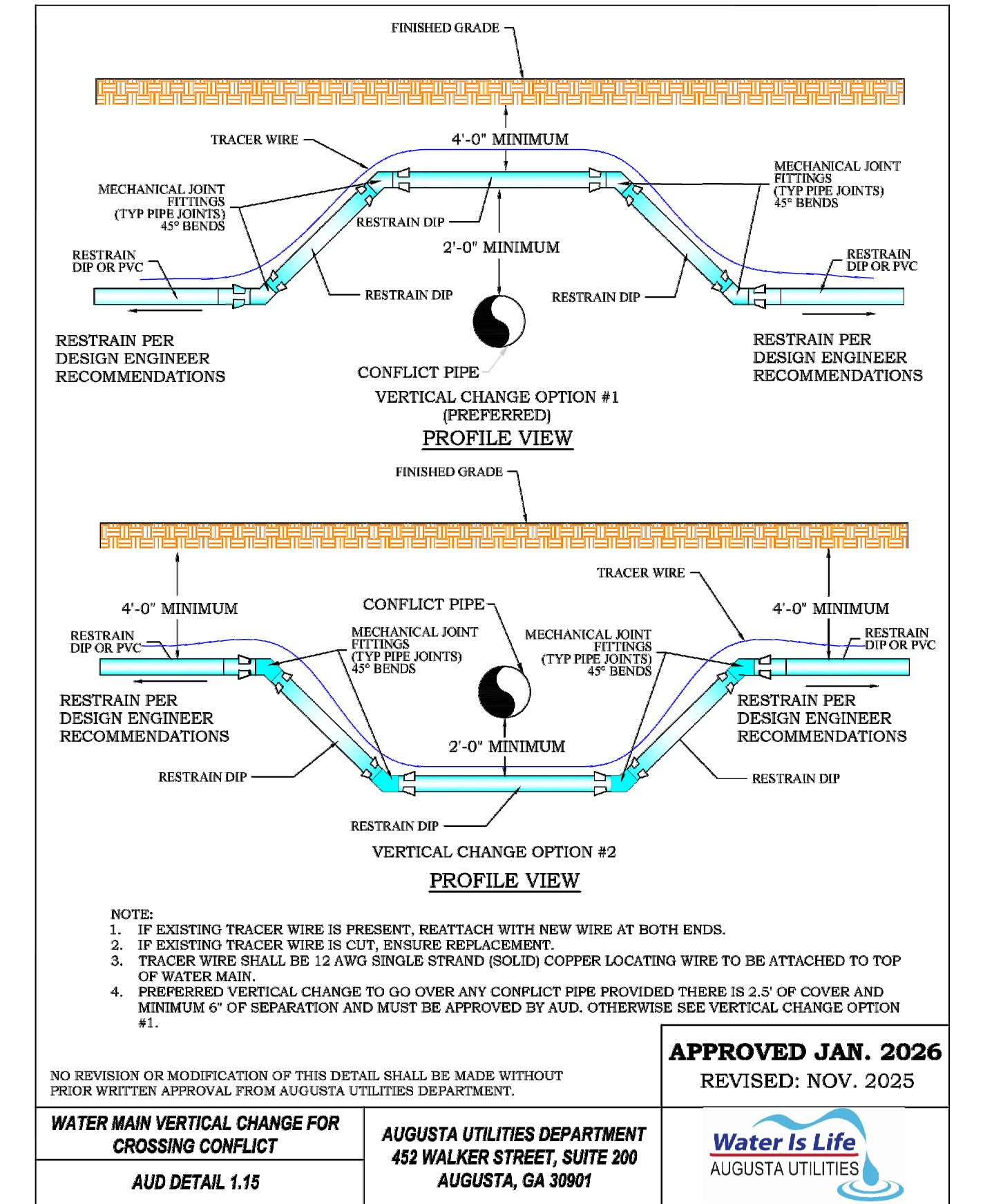
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4 Water Meter Below Ground Enclosure

PLAN AND PROFILE

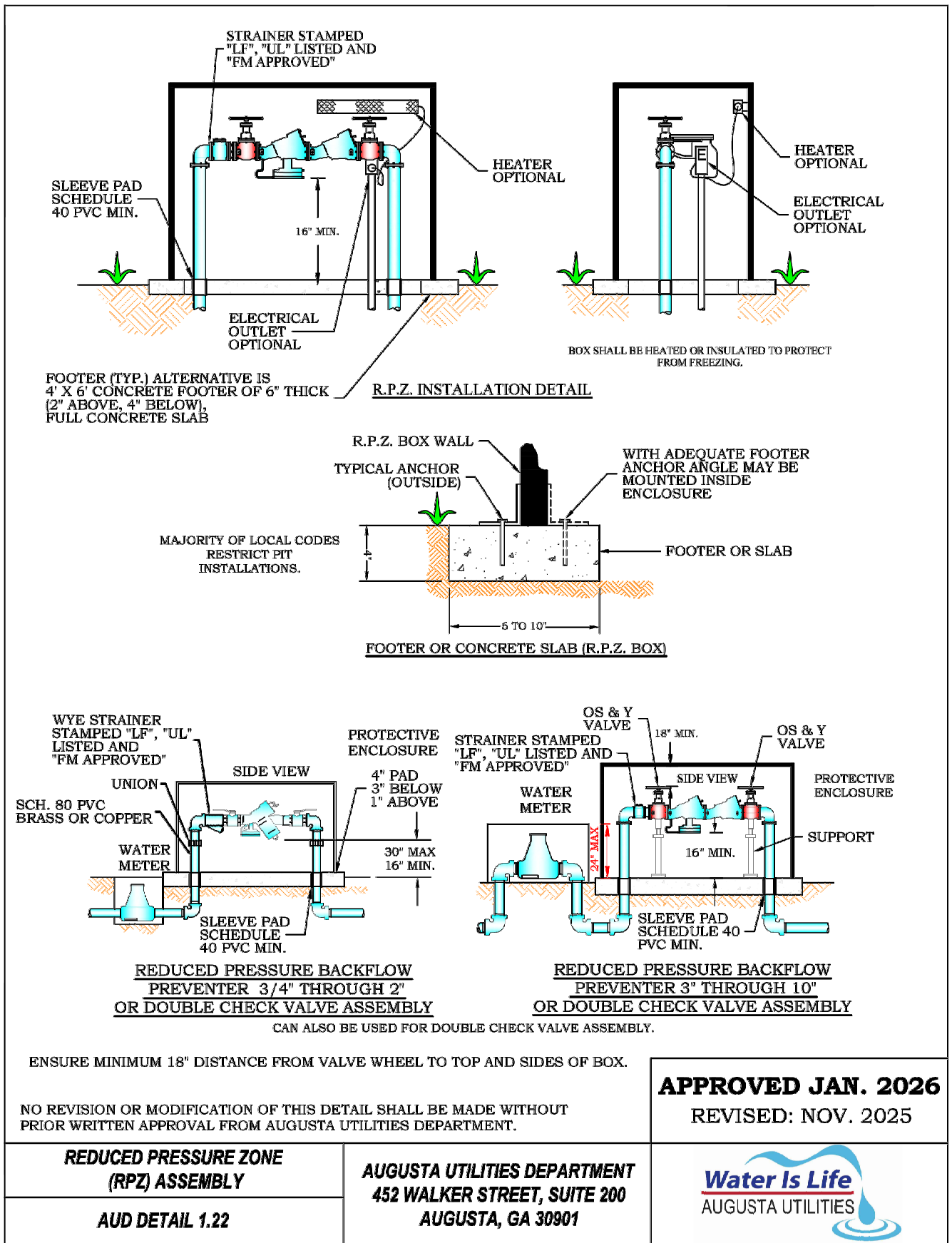
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6 Water Main Vertical Change for Crossing Conflict

SECTION

SCALE: NOT TO SCALE



8 Reduced Pressure Zone (RPZ) Assembly

SECTION

SCALE: NOT TO SCALE

BOYKIN ROAD PARK - PARK IMPROVEMENTS

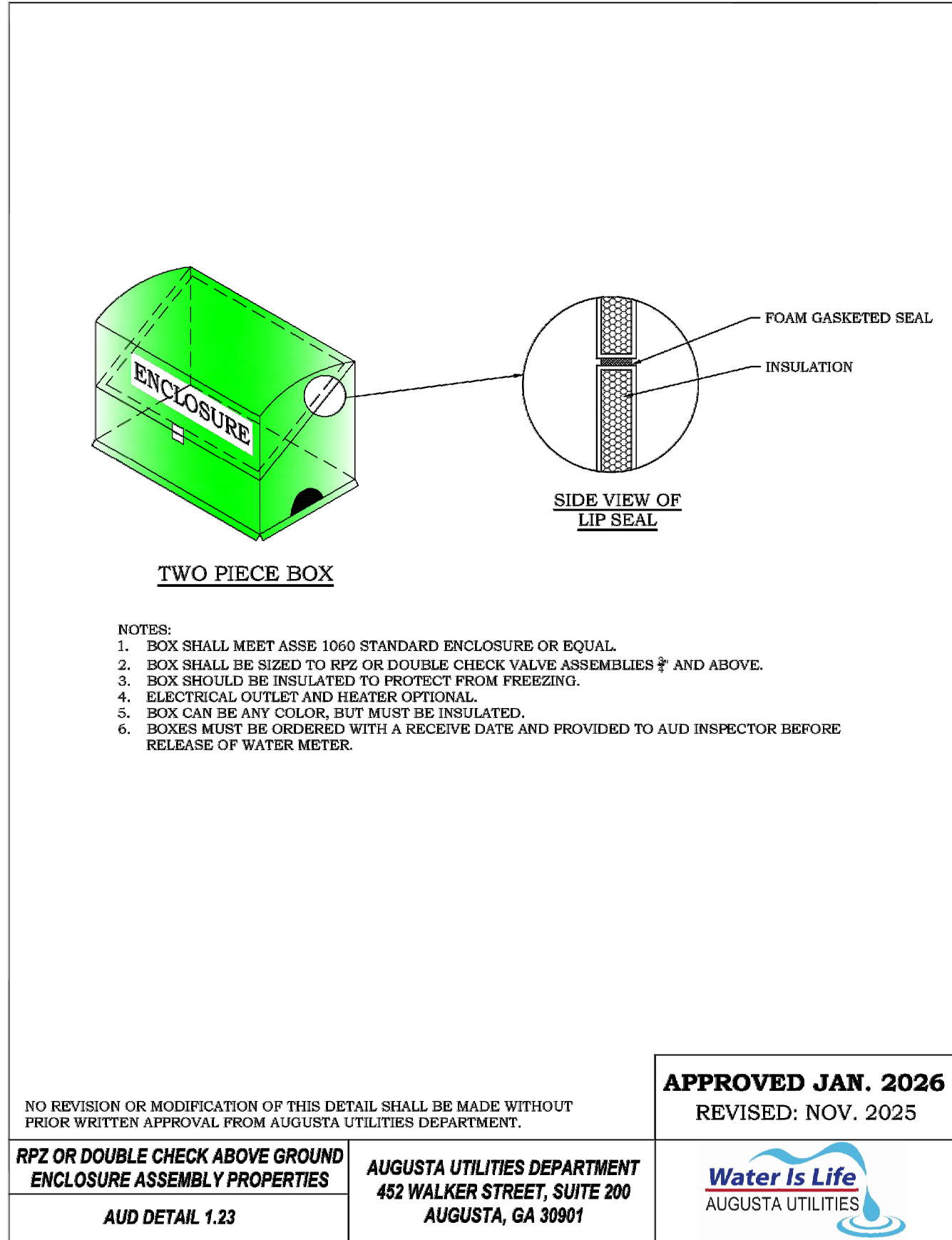
CONSTRUCTION DOCUMENTS

2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY,
GEORGIA

No.	Submittal / Revision	Appr	By	Date

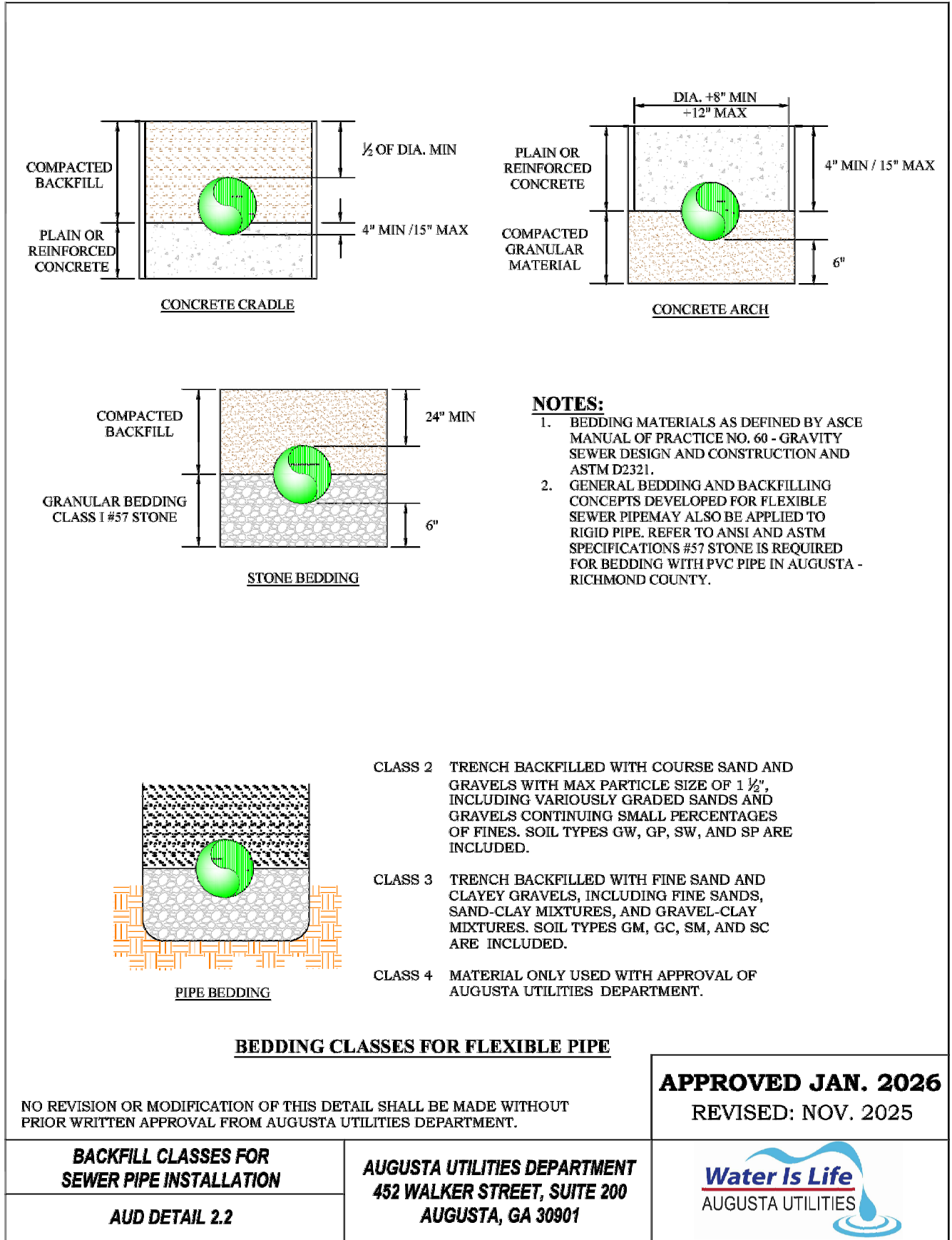
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Designed By: SDW	Drawn By: SDW	Checked By: PG
Issue Date: 07/17/26	Project No.: 093489.000	Scale: AS SHOWN



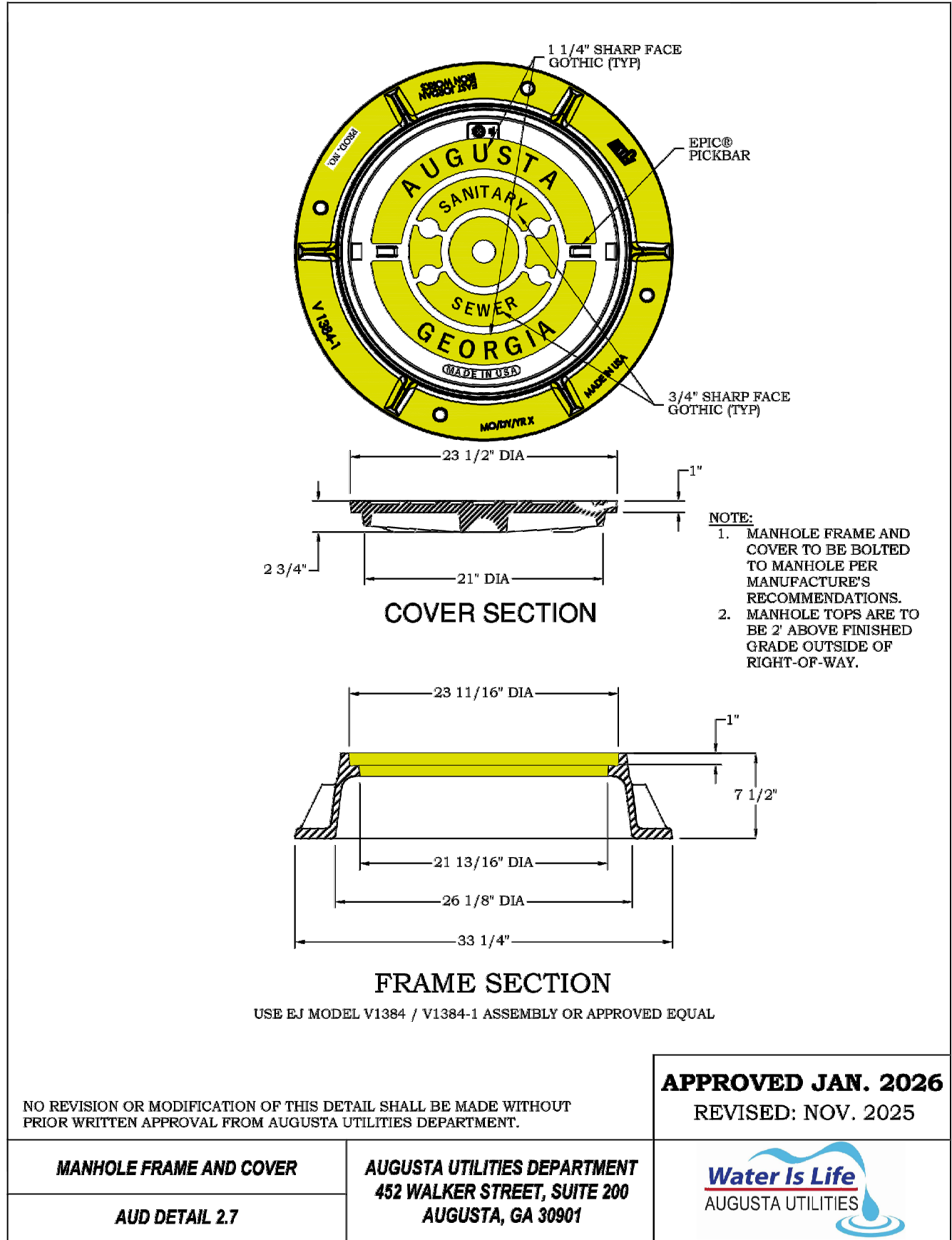
1 RPZ or Double Check Above Ground Enclosure Assembly Properties

PERSPECTIVE SCALE: NOT TO SCALE



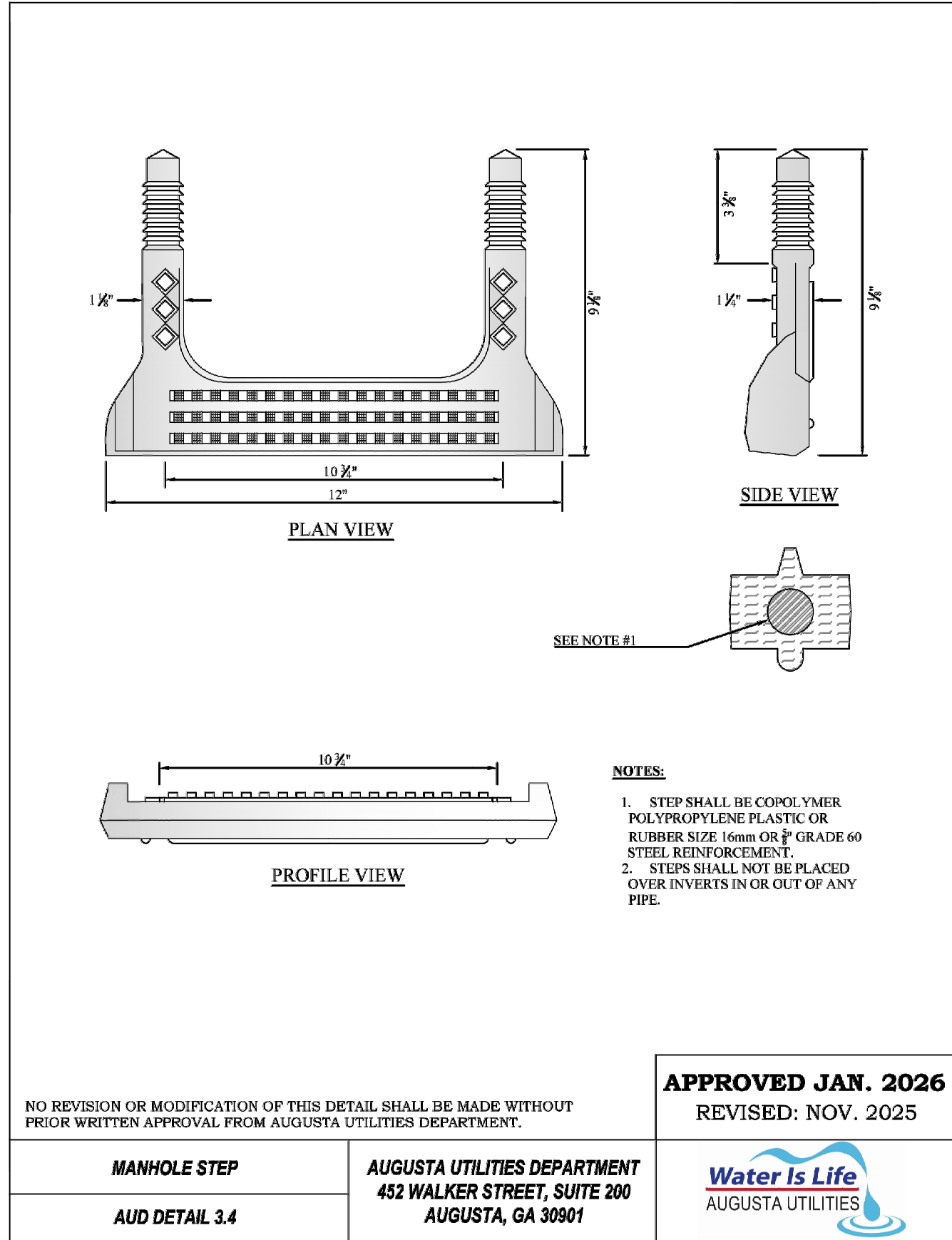
3 Backfill Classes for Sewer Pipe Installation

SECTION SCALE: NOT TO SCALE



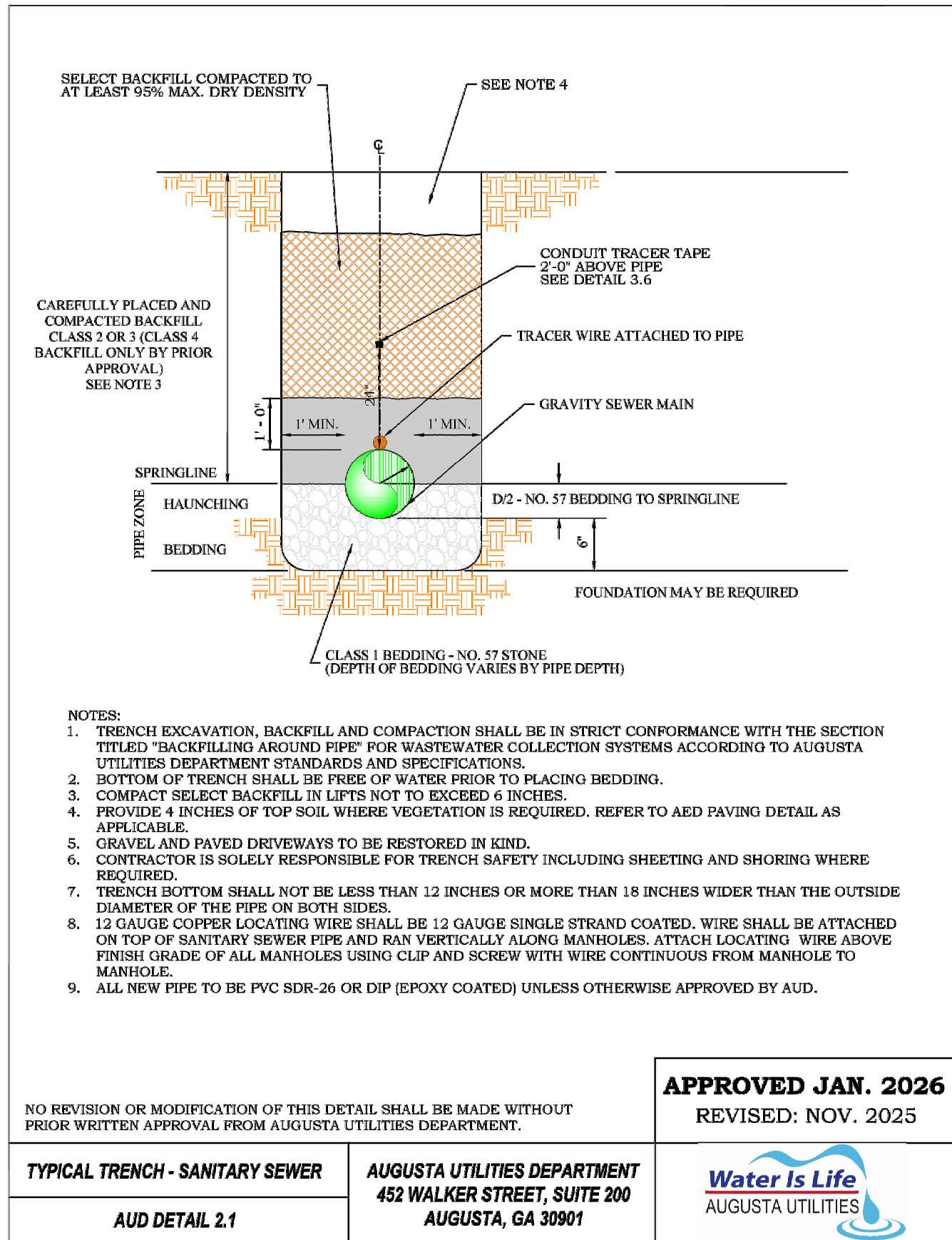
5 Manhole Frame and Cover

PLAN AND SECTION SCALE: NOT TO SCALE



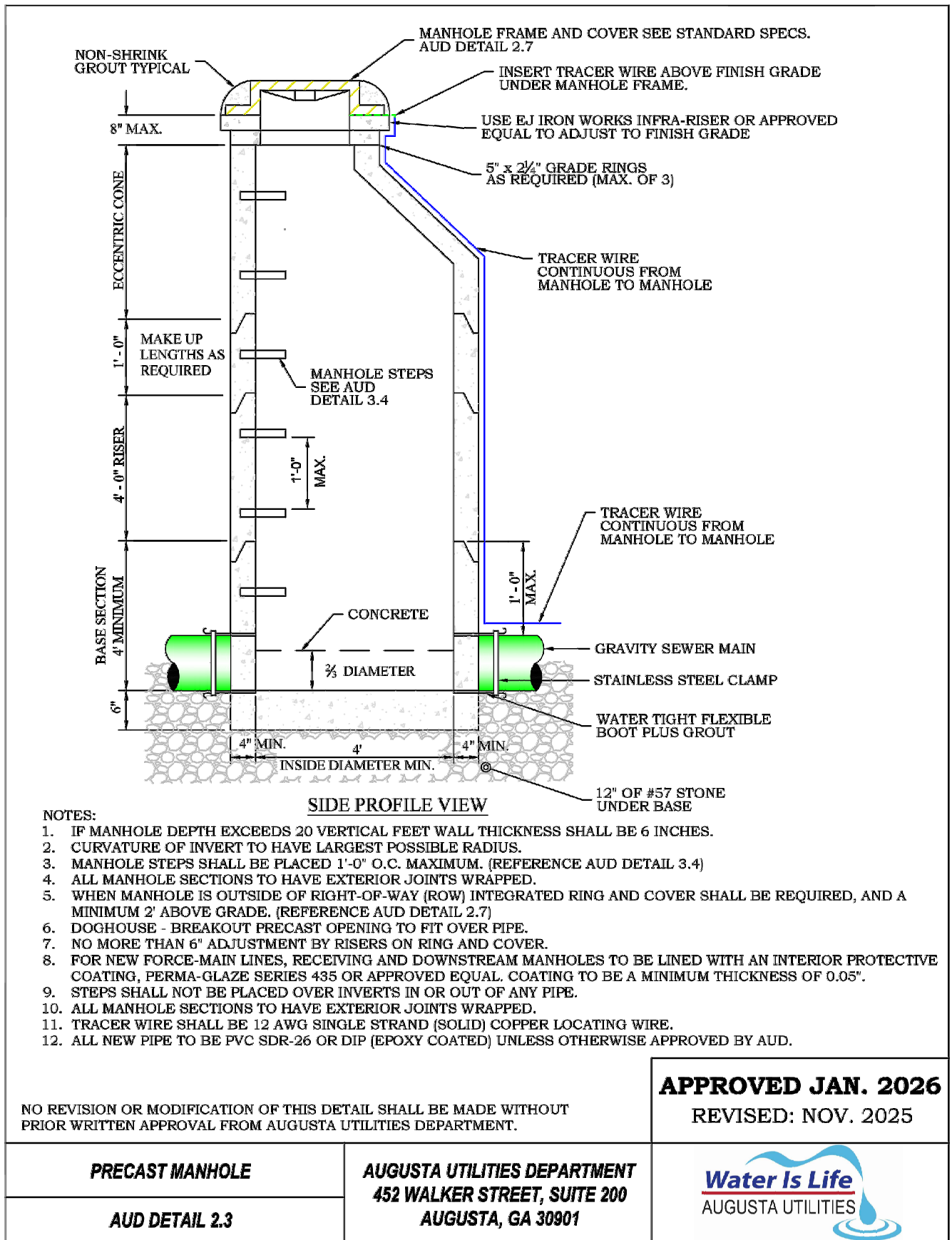
7 Manhole Step

PLAN AND PROFILE SCALE: NOT TO SCALE



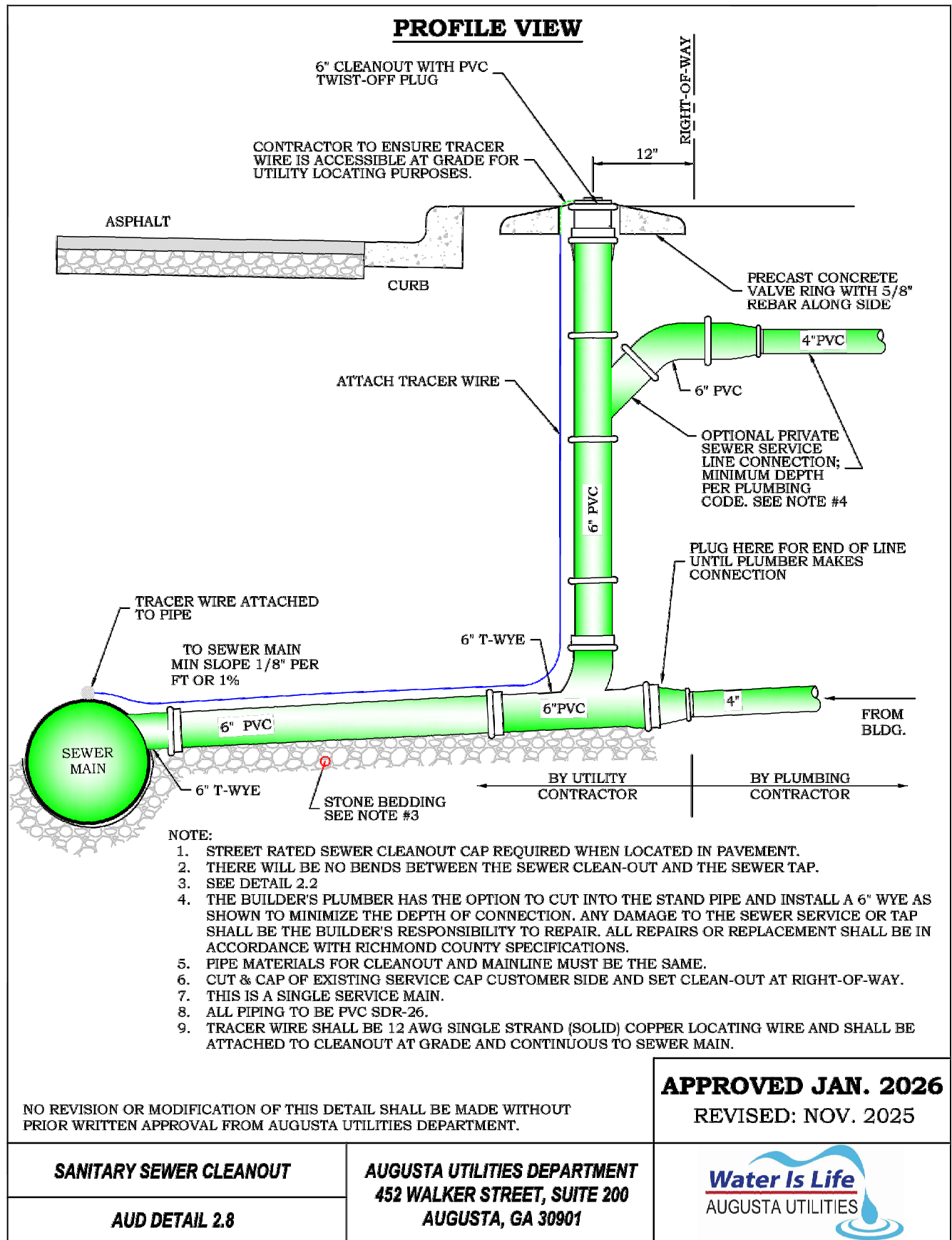
2 Typical Trench - Sanitary Sewer

SECTION SCALE: NOT TO SCALE



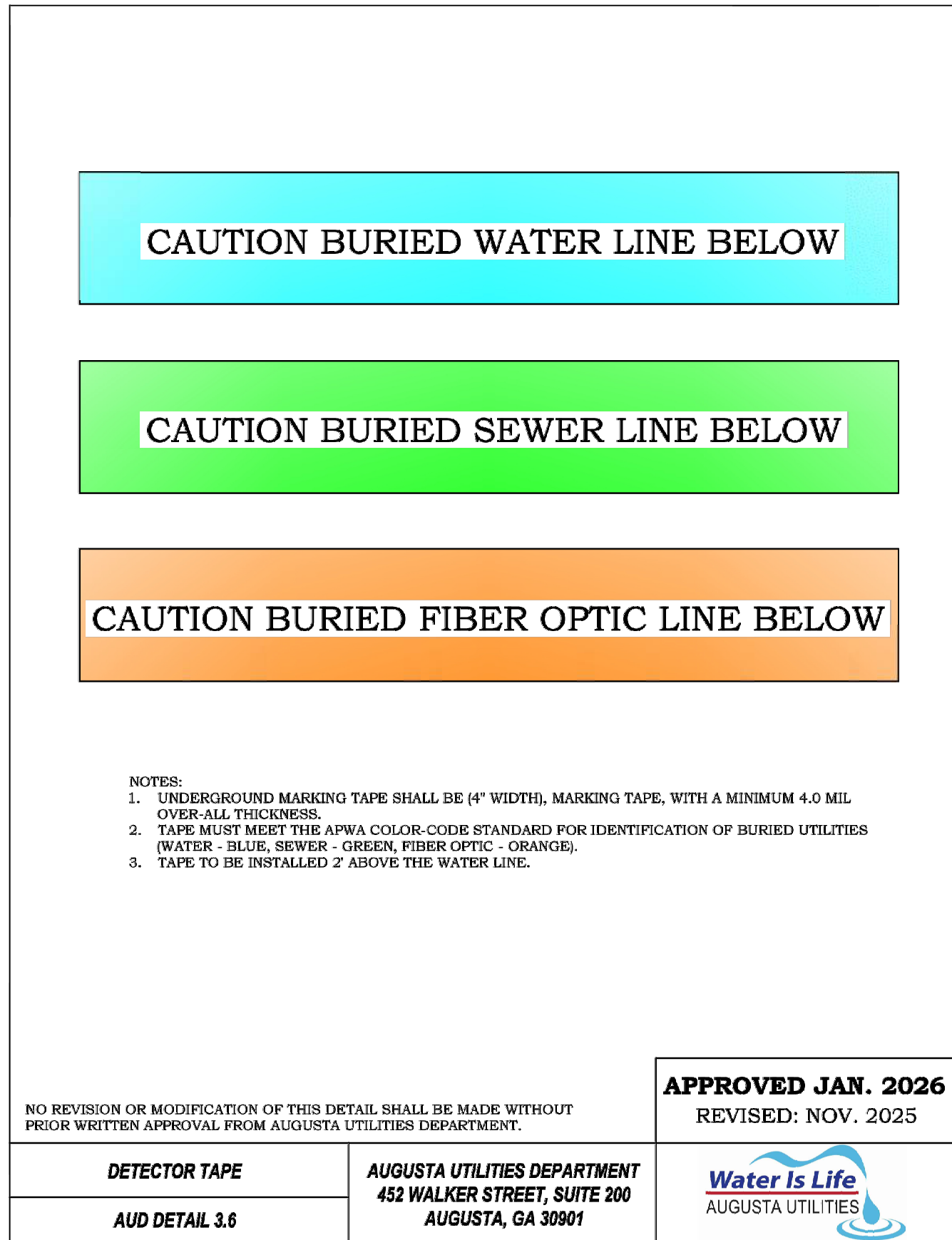
4 Precast Manhole

SECTION SCALE: NOT TO SCALE



6 Sanitary Sewer Cleanout

SECTION SCALE: NOT TO SCALE



8 Detector Tape

DIAGRAM SCALE: NOT TO SCALE

BOYKIN ROAD PARK - PARK IMPROVEMENTS

CONSTRUCTION DOCUMENTS

2345 BOYKIN ROAD
CITY OF AUGUSTA,
RICHMOND COUNTY,
GEORGIA

No.	Submittal / Revision	Appr	By	Date

DETAILS AND SECTIONS

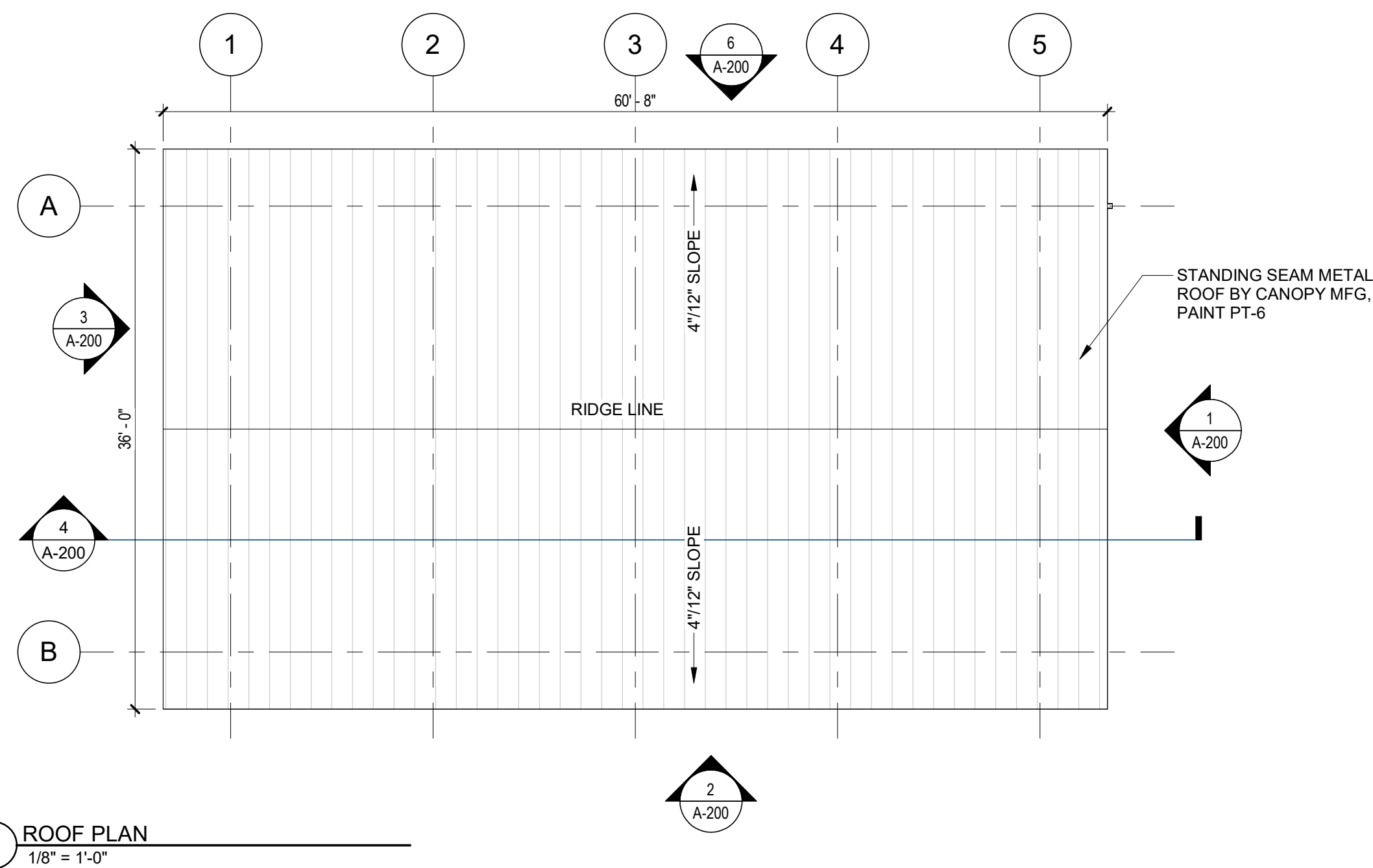
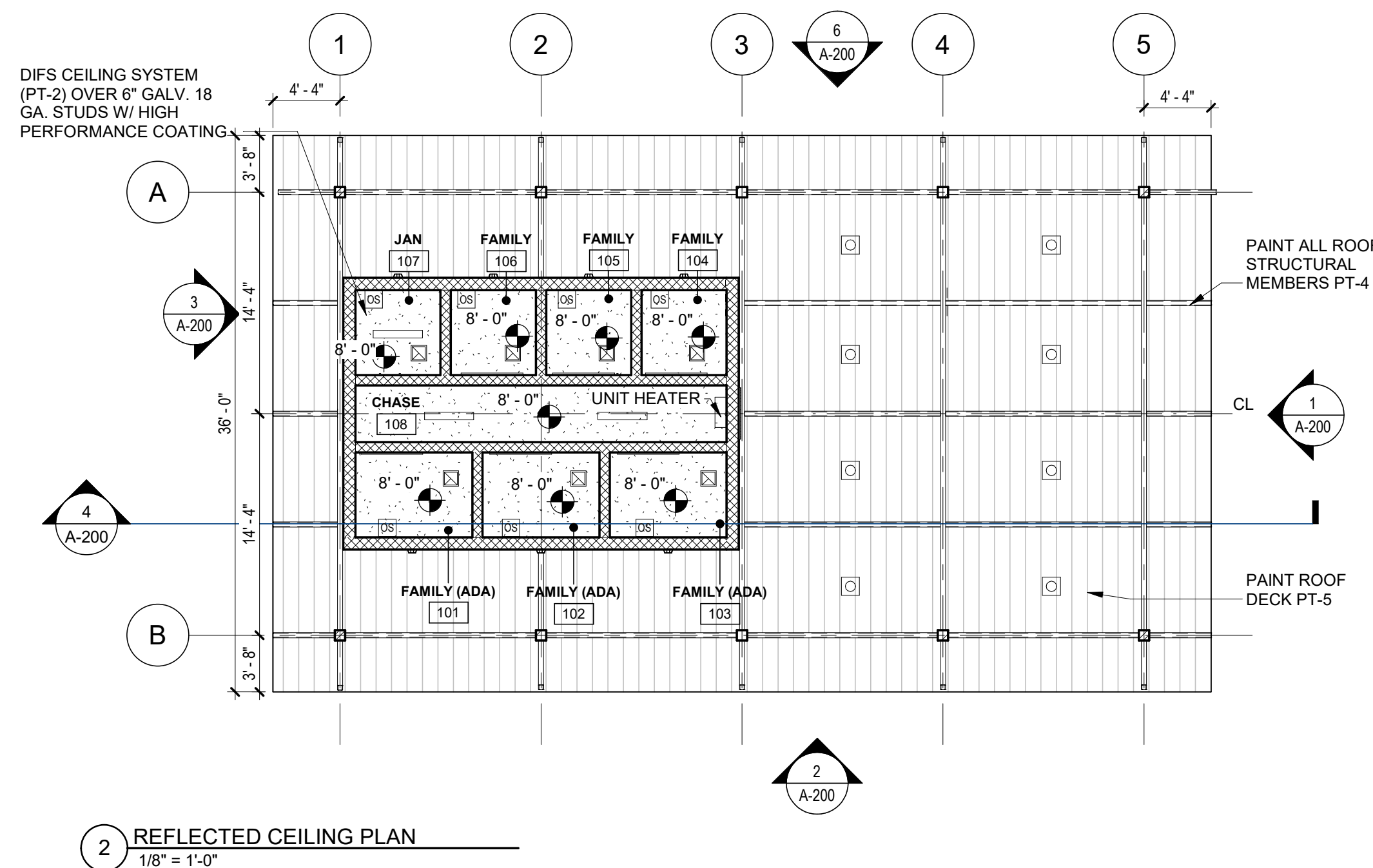
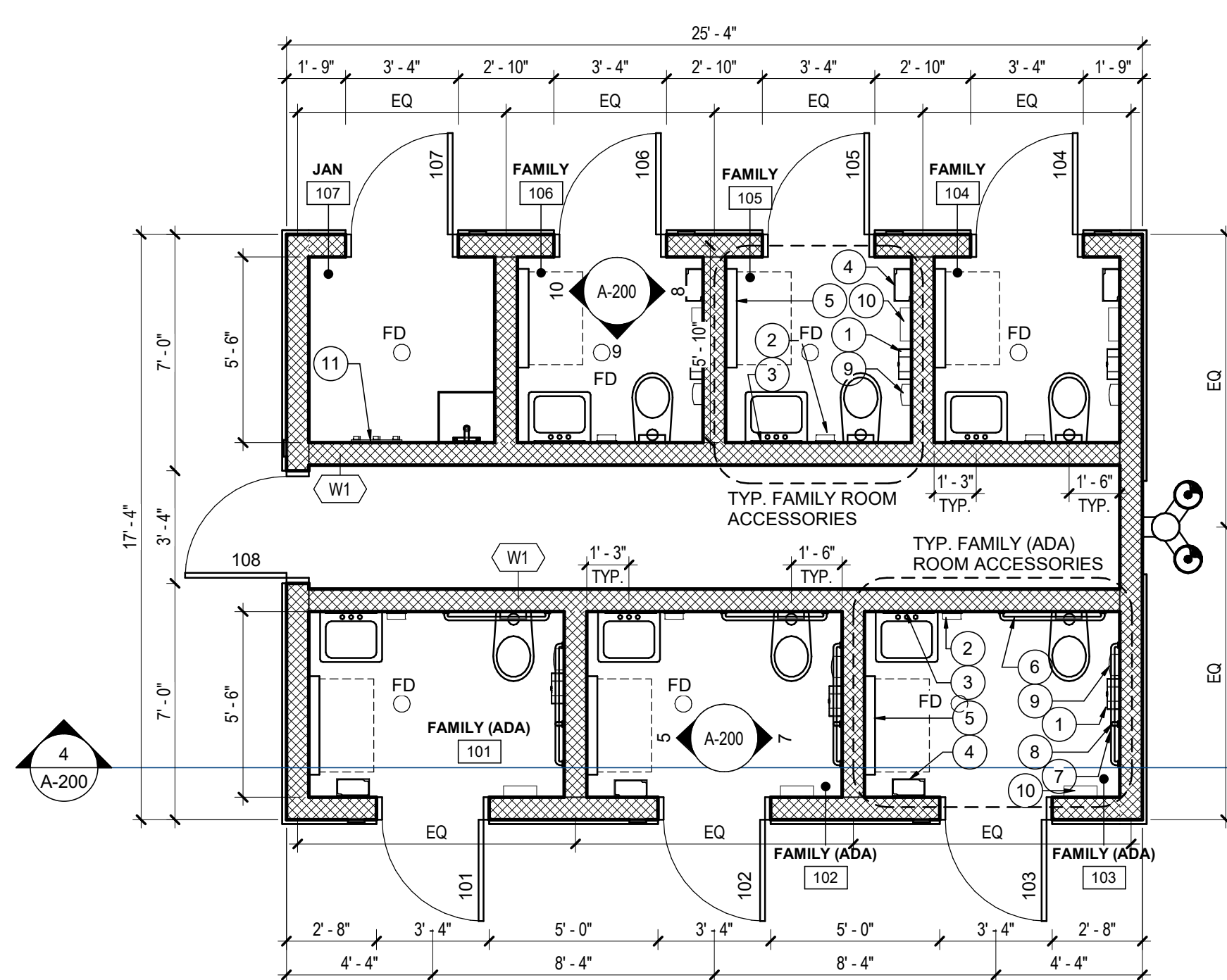
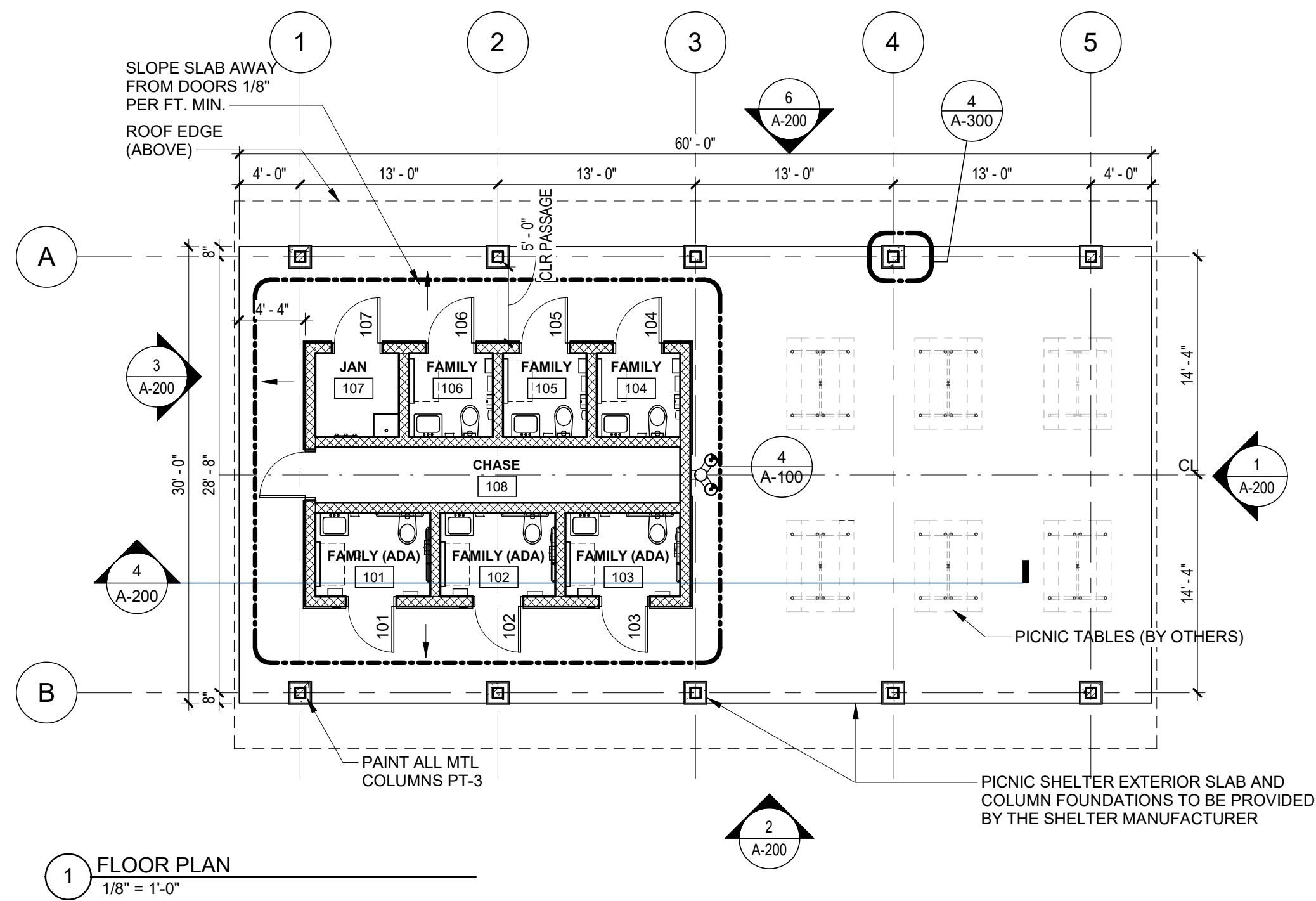
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Drawing No.:

C-606

Sheet 30 of 42

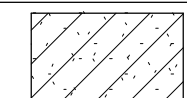
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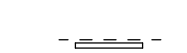
RCP LEGEND

NOTES:

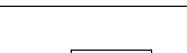
- 1 MECHANICAL AND ELECTRICAL ITEMS SHOWN FOR COORDINATION PURPOSES ONLY.
- 2 REFER TO MEP PLANS FOR CEILING EQUIPMENT LOCATIONS & SIZES.
- 3 ACCESS PANELS TO BE INSTALLED IN ALL HARD CEILINGS ADJACENT TO ALL CEILING MOUNTED VALVES & HVAC EQUIPMENT REQUIRING MAINTENANCE. LOCATIONS SHALL BE COORDINATED AS PART OF COORDINATED DRAWING PROCESS.



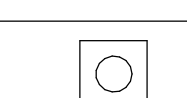
DIRECT APPLIED FINISH SYSTEM (DIFS)



V - 4' VANDAL RESISTANT LIGHT



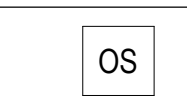
E - 4' LED STRIP



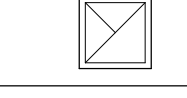
P - PENDANT LIGHT FIXTURE



N - WALL MOUNT LIGHT FIXTURE



OCCUPANCY SENSOR



MECH FAN

CEILING NOTES

1. CEILING PLANS DO NOT SHOW EVERY FIXTURE OR COMPONENT. REFER TO ELECTRICAL, PLUMBING, MECHANICAL AND STRUCTURAL DRAWINGS FOR EXTENT OF ALL CEILING PENETRATIONS AND INSTALLATIONS AND COORDINATE PRIOR TO INSTALLATION.

PLAN GENERAL NOTES

1. WORK FROM GIVEN DIMENSIONS. IN GENERAL, LARGE-SCALE DETAILS TAKE PRECEDENCE OVER SMALLER SCALE PLANS, ELEVATIONS AND BUILDING SECTIONS. NOTIFY THE ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES PRIOR TO COMMENCING THE WORK, AND DO NOT BEGIN WORK UNTIL SUCH DISCREPANCIES ARE RESOLVED BY THE ARCHITECT.
2. DO NOT SCALE THE DRAWINGS.
3. DIMENSIONS INDICATED AS "CLEAR" SHALL BE MAINTAINED IN CASES OF DISCREPANCY.
4. UNLESS NOTED OTHERWISE, THE LOCATION OF DOOR FRAMES SHALL BE:
 - CMU PARTITIONS: 4" FROM THE ADJACENT WALL TO THE HINGE SIDE OF THE ROUGH OPENING.
5. MASONRY OPENING OR ROUGH OPENING DIMENSIONS INDICATED ARE NOMINAL DIMENSIONS AND MAY NOT MATCH THE ACTUAL DIMENSIONS OF THE PRODUCT. COORDINATE ALL MASONRY OPENINGS AND ROUGH OPENINGS WITH THE ACTUAL WINDOW UNIT, DOORFRAME, CURTAIN WALL/STOREFRONT, OR LOUVER SIZES AND REQUIREMENTS.
6. DIMENSIONAL CONTROL:
 - EXTERIOR DIMENSIONS ARE TO:**
 - CENTERLINE OF COLUMN
 - FACE OF MASONRY
 - FACE OF STUD
 - FACE OF CONCRETE
 - CENTERLINE OF WINDOW OPENING
 - ROUGH OPENING
 - MASONRY OPENING
 - INTERIOR DIMENSIONS ARE TO:**
 - CENTERLINE OF COLUMN
 - FACE OF MASONRY
 - FACE OF STUD
 - FACE OF EXISTING FINISH MATERIAL

TOILET ACCESSORY SCHEDULE

NO	DESCRIPTION	BOD MFG	BOD MODEL	NOTES
01	TOILET PAPER DISPENSERS	-	-	OWNER PROVIDED CONTRACTOR INSTALLED
02	SOAP DISPENSER	-	-	OWNER PROVIDED CONTRACTOR INSTALLED
03	VANDAL-RESISTANT STAINLESS STEEL FRAMELESS MIRROR	BOBRICK	B-942	*1
04	SURFACE-MOUNTED WASTE RECEPTACLE	BOBRICK	B-279 (ADA COMPLIANT)	
05	BABY CHANGING STATION	BOBRICK	KB 310-SSWM	
06	GRAB BAR/TOILET BACK: 36"	BOBRICK	B-6806-36	*4
07	GRAB BAR/TOILET BACK: 42"	BOBRICK	B-6806-42	*4
08	GRAB BAR/TOILET BACK: 18"	BOBRICK	B-6806-18	*4
09	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL UNIT	BOBRICK	B-254	
10	WALL MOUNTED HAND DRYER	BOBRICK	B-7179 (ADA COMPLIANT)	
11	MOPIBROOM HOLDER	BOBRICK	B-239 X 34	*2

NOTES: SEE PLUMBING SCHEDULE FOR FIXTURES

U.N.O. ALL TO BE SUPPLIED AND INSTALLED BY GC

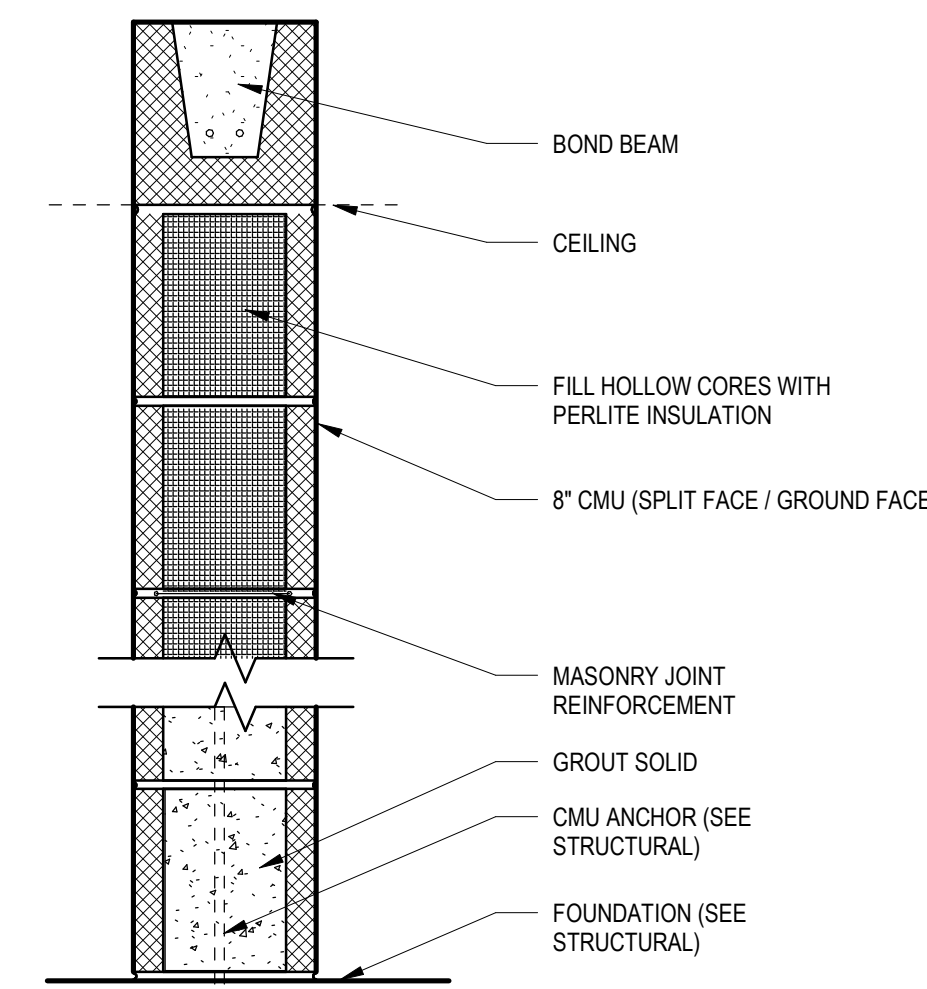
*1 INSTALL IN ALL RESTROOMS U.N.O. LOCATION & QUANTITY PER PLAN

*2 INSTALL IN ALL JANITOR'S CLOSETS U.N.O.

*3 INSTALL IN ALL WOMENS BATHROOM STALLS ONLY

*4 INSTALL IN ALL ACCESSIBLE TOILET COMPARTMENTS

CMU PARTITION



7 PARTITION TYPE - W1

1 1/2\"/>

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Sustainable Design
Consultants, LLC



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR, TO ALTER, ALTER IN ANY WAY, IF AN ALTER BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

CITY OF AUGUSTA
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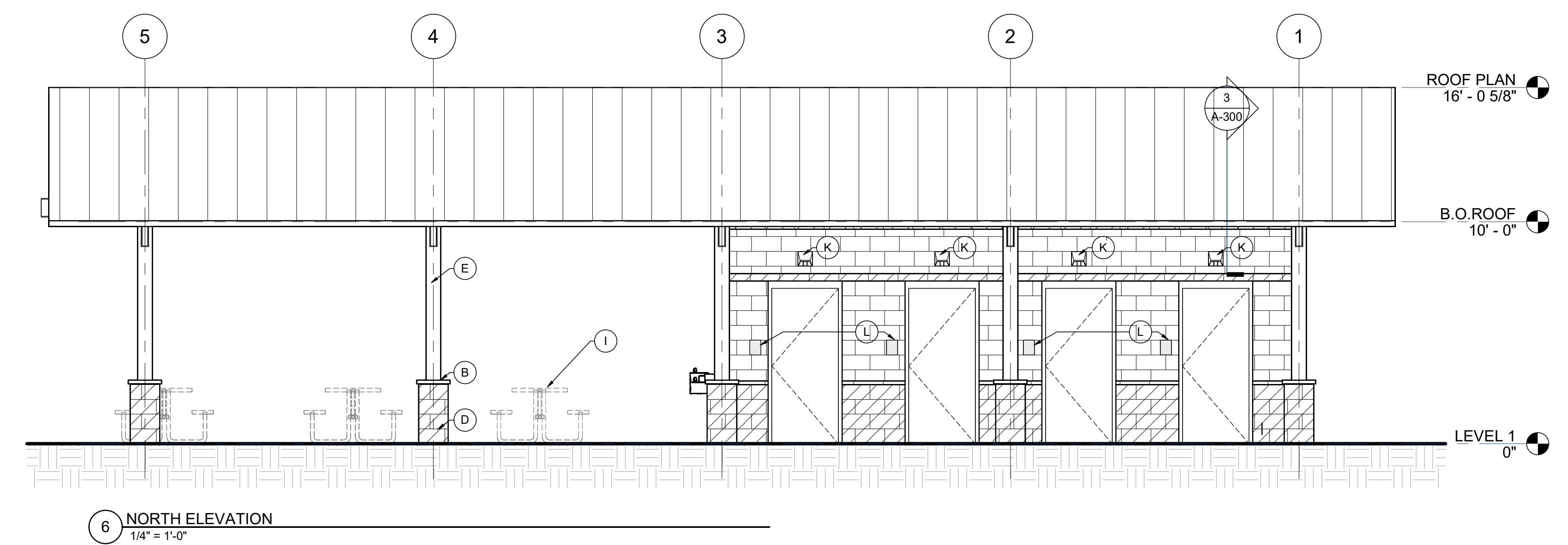
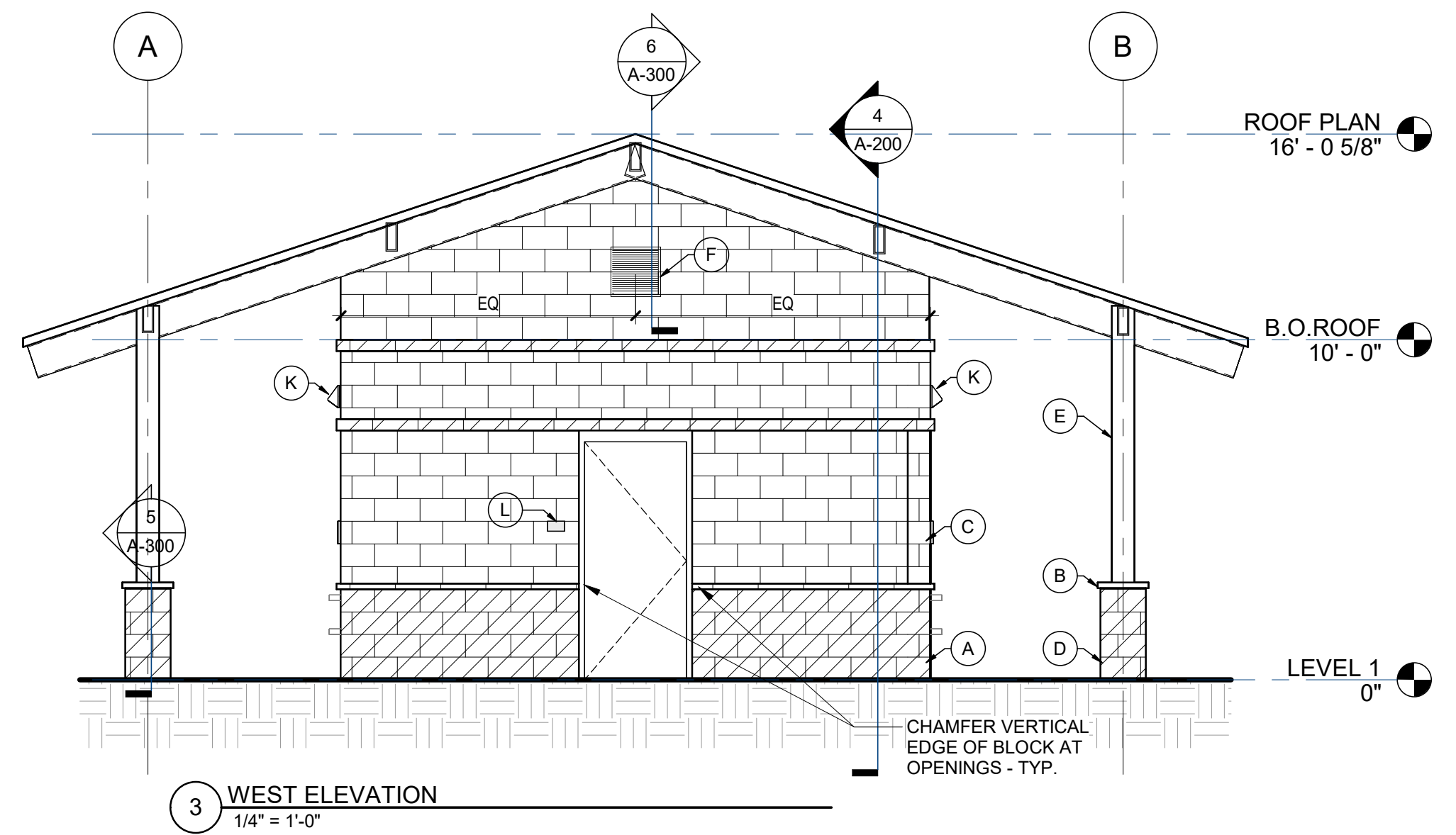
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FLOOR PLANS, CEILING
PLANS & ROOF PLANS

Designed By: KDL	Drawn By: BEB	Checked By: CM
Issue Date: 09/30/2024	Project No: 080083	Scale: AS SHOWN

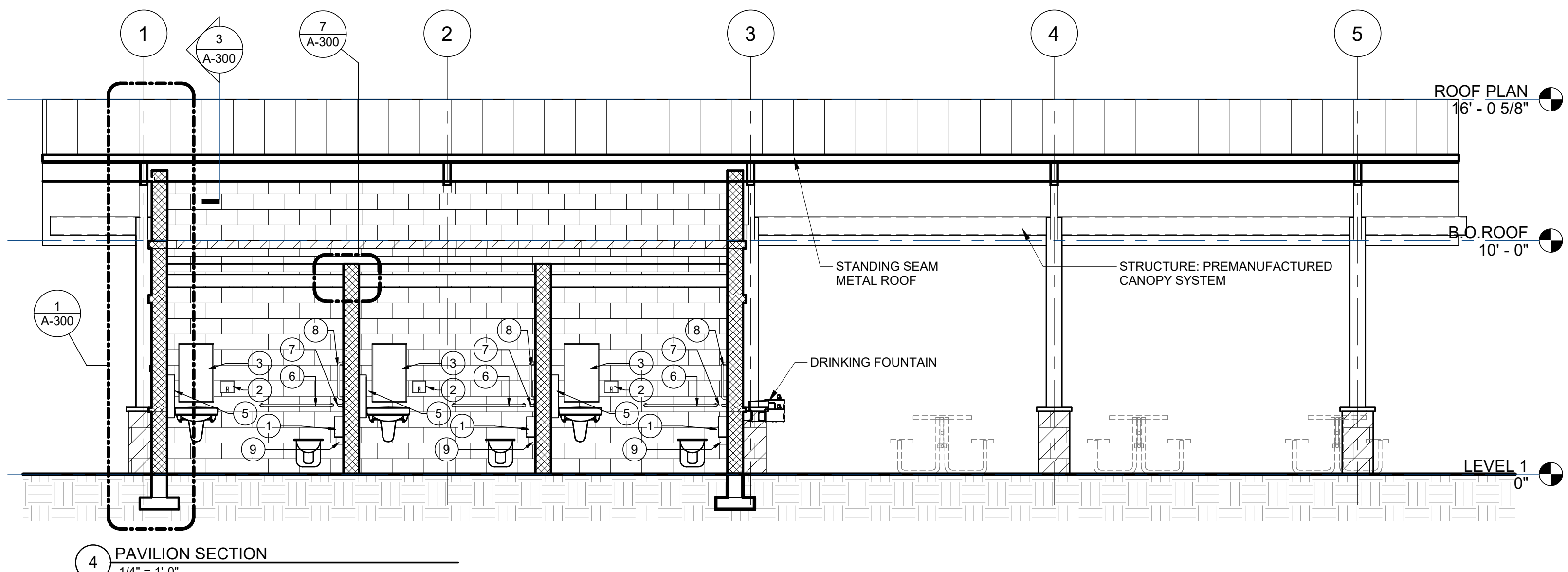
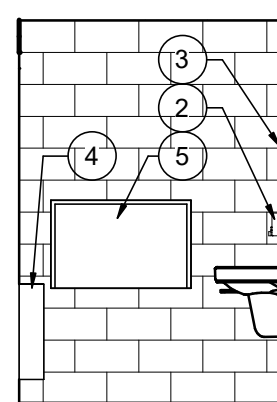
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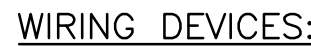
EXTERIOR ELEVATION SCHEDULE	
Number	Description
A	SPLIT FACE CMU
B	PRECAST
C	GROUND FACE CMU
D	SPLIT FACE CMU PILASTER
E	STRUCTURE: PREMANUFACTURED CANOPY SYSTEM
F	LOUVER
G	DRINKING FOUNTAIN
H	STANDING SEAM METAL ROOF
I	PICNIC TABLES (NIC)
J	3'-4" DIA. CIRCULAR BRONZE PLAQUE SIGNAGE W/AUGUSTA, GA PARKS & RECREATION LOGO
K	EXTERIOR LIGHT FIXTURE
L	ROOM SIGNAGE

TOILET ACCESSORY SCHEDULE	
Number	Description
1	TOILET PAPER DISPENSERS: OWNER SUPPLIED CONTRACTOR INSTALLED (OSCI)
2	SOAP DISPENSERS: OSCI
3	VANDAL-RESISTANT STAINLESS STEEL FRAMELESS MIRROR
4	SURFACE-MOUNTED WASTE RECEPTACLE
5	BABY CHANGING STATION
6	GRAB BAR/TOILET BACK: 36"
7	GRAB BAR/TOILET SIDE: 42"
8	GRAB BAR/VERTICAL:18"
9	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL UNIT
10	HAND DRYER
11	MOP HOLDER/ SHELF



LIGHTING FIXTURES:

NON- EMERGENCY	EMERGENCY
-------------------	-----------



	RECEPTACLE: DUPLEX
	RECEPTACLE: GROUND—FAULT—INTERRUPTING—TYPE
	ELECTRIC WATER COOLER POWER CONNECTION
	HAND DRYER CONNECTION, SEE ARCHITECTURAL EL FOR EXACT LOCATION.

MOUNTING HEIGHT OF SWITCHES SHALL BE 48" NOMINAL, ADJUSTED IN THE SAME MANNER AS SPECIFIED ABOVE, FOR RECEPTACLES. LOWER CASE LETTER INDICATES SWITCHLEG CONNECTION. THE RESPECTIVE FIXTURE(S) WILL HAVE THE SAME DESIGNATION.

- | | |
|-----------------------|---|
| S | SWITCH: SINGLE-POLE |
| S₃ | SWITCH: THREE-WAY TYPE |
| CS | SWITCH: OCCUPANCY SENSOR, CEILING MOUNTED |
| CS_W | SWITCH: OCCUPANCY SENSOR, WALL MOUNTED W/DIMMER CONTROL AND OFF SWITCHES |
| VS | SWITCH: VACANCY SENSOR, WALL MOUNTED W/DIMMER CONTROL AND OFF SWITCHES |
| So | SWITCH: SENSOR OVERIDE, WALL MOUNTED W/DIMMER CONTROL AND OFF SWITCHES |
| Do | SWITCH: LED DIMMER, 0-10V W/ ON-OFF SWITCH, COMPATIBLE WITH OCCUPANCY/VACANCY SENSOR IN SPACE |
| PC | PHOTOCELL |

NUMERAL ADJACENT TO DEVICE DENOTES BRANCH CIRCUIT CONNECTION.
IDENTIFIER TAGS ADJACENT TO DEVICES INDICATE:

C	MOUNT ABOVE COUNTERTOP OR BACKSPLASH, 6" ABOVE WORK SURFACE TO CENTER.
xx"	MOUNT DEVICE AT HEIGHT INDICATED.
WP	PROVIDE WEATHER-PROOF COVER.
TV	MOUNT DEVICE AT 72" AFF, ADJACENT TO TV RECEPTACLE

REFER TO ONE-LINE DIAGRAM AND EQUIPMENT CONNECTION SCHEDULE FOR LOAD DATA USED AS THE BASIS OF DESIGN AND REQUIRED CONNECTIONS. VERIFY LOAD AND LOCATION WITH EQUIPMENT CUT-SHEETS AND INSTALLER.

	NON-FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH, 30A/2/1/30F
	PANELBOARD: LIGHTING-TYPE, SURFACE MOUNTED
	PANELBOARD: LIGHTING-TYPE, FLUSH MOUNTED
<u>XX-1</u> 	EQUIPMENT AS NOTED, SEE ABBREVIATION LIST, THIS SHEET
	PHOTOCELL: LOCATE UNDER EAVES, FACING NORTH, AVOID ANY OTHER OUTSIDE LIGHT SOURCE

	BRANCH CIRCUIT: CONCEALED
	BRANCH CIRCUIT: CONCEALED IN FLOOR SLAB
	BRANCH CIRCUIT: EXPOSED

MISCELLANEOUS COMPONENTS:

	JUNCTION BOX: MOUNTED ABOVE CEILING
	JUNCTION BOX: WALL MOUNTED
	COMMUNICATIONS BACKBOARD: 3/4" THICK FIRE RATED TYPE AC PLYWOOD PAINTED, 4' HIGH, LENGTH AS INDICATED, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
	CONNECTION TO GROUNDING ELECTRODE
	CIRCUIT BREAKER: TRIP/POLES INDICATED SPACE FOR FUTURE CIRCUIT BREAKER

THE CONTRACTOR SHALL PROVIDE ROUGH-IN FOR ALL DEVICES AND WIRING. VERIFY ADJACENCY TO CORRESPONDING POWER RECEPTACLES. OUTLETS SHALL BE INSTALLED AT THE SAME HEIGHT AS CORRESPONDING POWER OUTLETS, UNO. OTHER DEVICES WHOSE LOCATIONS ARE NOT DEPENDENT ON RECEPTACLE PLACEMENT SHALL BE COORDINATED WITH SYSTEM INSTALLER.

▷	WALL MTD. TELECOMMUNICATION OUTLET-(1) CAT 6 UTP CABLE FROM TELECOMMUNICATION BACKBOARD, VERIFY LOCATION PRIOR TO PULLING.
▶	WALL MTD. CATV OUTLET-(1) RG-6 CABLE FROM IT ROOM,VERIFY LOCATION PRIOR TO PULLING. MTD. AT 60°AFF, UNO.
	19"W x 84"H TIA RACK WITH VERTICAL WIRE MANAGEMENT CHANNELS
	CONDUIT SLEEVE: NUMBER & SIZE, 2-4" TYP., UNO

1. WHERE COMPLETE BRANCH CIRCUIT WIRING IS NOT SHOWN, PROVIDE ACCORDING TO HOMERUNS SHOWN AND CORRESPONDING CIRCUIT NUMBERS ADJACENT TO THE DEVICE OR FIXTURE. REFER TO THE SCHEDULES FOR WIRING METHODS. BRANCH CIRCUIT WIRING SHALL BE BASED ON OVERCURRENT DEVICE RATINGS SHOWN IN THE PANEL SCHEDULES.
2. REFER TO THE ELECTRICAL PANELBOARD SCHEDULES AND EQUIPMENT RATINGS & CONNECTIONS SCHEDULE FOR VOLTAGE, BRANCH CIRCUITS REQUIREMENTS, BREAKERS SIZES AND OTHER RELATED ELECTRICAL EQUIPMENT TO BE PROVIDED AND/OR INSTALLED BY THE ELECTRICAL CONTRACTOR.

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AIR HANDLER
AIC	AMPERAGE INTERRUPT CAPABILITY
AWG	AMERICAN WIRE GAUGE
C.	CONDUIT
CU	CONDENSING UNIT
DIA	DIAMETER
EF	EXHAUST FAN
EH	ELECTRIC HEATER
G	GROUND
GFI	GROUND—FAULT INTERRUPTING
KCMIL	KILO CIRCULAR MIL
MB	MAIN BREAKER
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOC	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
No.	NUMBER
NEC	NATIONAL ELECTRIC CODE
NTS	NOT TO SCALE
RGS	RIGID GALVANIZED STEEL
RTU	ROOFTOP UNIT
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BACK BOARD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE
W	WATTAGE
W/	WITH
WH	WATER HEATER
WP	WEATHER PROOF

1. GENERAL PROVISIONS:

PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT A COMPLETE AND OPERABLE ELECTRICAL SYSTEM. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

A. ALL MATERIALS SHALL CONFORM TO U.L. & NEMA REQUIREMENTS AND SHALL BE AS SPECIFIED OR "PRIOR APPROVED EQUAL" BY THE ENGINEER.

B. RACEWAY SYSTEM: ALL CONDUITS AND RACEWAYS SHALL BE INSTALLED CONCEALED IN FINISHED SPACES. CONCEALED CONDUITS SHALL BE EMT, IMC OR RGS. ROUTE ALL CONDUITS AND RACEWAYS PARALLEL AND PERPENDICULAR TO THE STRUCTURE AND SUPPORT AS REQUIRED BY THE NEC. ALL EXPOSED EXTERIOR OR WET LOCATED BRANCH CIRCUIT OR FEEDER RACEWAYS SHALL BE RGS OR IMC CONDUIT. ALL UNDERGROUND BRANCH CIRCUIT OR FEEDER RACEWAYS SHALL BE PVC CONDUIT. EXPOSED CONDUITS IN MECHANICAL SPACES AND GLETS SHALL BE RGS OR IMC. EXPOSED CONDUITS IN FINISHED SPACES SHALL BE SURFACE METAL RACEWAY (WIREMOLO). CONNECTORS/COUPLINGS FOR USE WITH EMT CONDUIT SHALL BE STEEL COMPRESSION TYPE, EXCEPT THAT STEEL, SET SCREW TYPE WILL BE ACCEPTABLE FOR EMT CONDUIT SIZES 2-1/2" AND LARGER. SUPPORT RACEWAY SYSTEM USING WOOD SCREWS TO WOOD; BY TROOP BOLTS IN HOLLOW MASONRY OR CONCRETE WALLS. GLERTS OR EXPANSION BOLTS ON CONCRETE OR BRICK; BY MACHINE SCREWS, WELDED THREADED STUDS, OR SPRINGTENSION CLAMPS ON STEEL WORK. CONDUIT SUPPORTS SHALL BE TWO-HOLE STRAPS, WALL BRACKETS, HANGERS OR CEILING TRAPEZE.

C. BOXES: PROVIDE GALVANIZED STEEL OUTLET BOXES WITH STAMPED KNOCKOUTS FOR INTERIOR DRY LOCATIONS. PROVIDE CAST ALUMINUM BELL TYPE FOR ALL EXTERIOR WET LOCATIONS. INTERIOR FLUSH BOXES SHALL BE 4" SQUARE BY 1-1/4" DEEP. INTERIOR FLUSH BOXES FOR COMMUNICATION OUTLETS AND GFCI OUTLETS SHALL BE 4-11/16" SQUARE BY 2-1/8" DEEP. PROVIDE SINGLE GANG TILE COVERS UNLESS REQUIRED OTHERWISE.

D. GRADE LEVEL PULL BOXES: BOXES SHALL BE QUASITE COMPOSOLITE TYPE. PROVIDE SIZE AS INDICATED ON THE DRAWINGS. PROVIDE STACKABLE SECTIONS TO ACHIEVE BURIAL DEPTH FOR SPECIFIED FOR CONDUITS. BOXES SHALL HAVE OPEN BOTTOM AND LOCKING COVER WITH "ELECTRICAL" OR "COMMUNICATIONS" LOGO AS APPROPRIATE. PULL BOXES SHALL BE RATED FOR LIGHT VEHICULAR TRAFFIC. ENCASEMENT IS REQUIRED ONLY IF DIRECTED BY MANUFACTURER TO OBTAIN RATING.

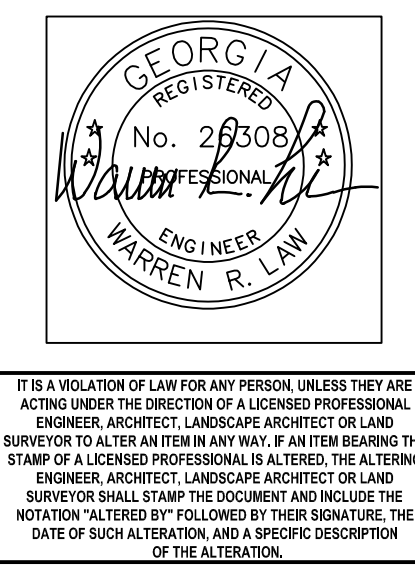
E. WIRE AND CABLES: CONDUCTORS SHALL BE COPPER, TYPE THHN OR THWN. CONDUCTORS SHALL BE COLOR CODED.

F. WIRING DEVICES: PROVIDE WIRING DEVICES PRODUCED BY ONE OF THE FOLLOWING MANUFACTURERS: HUBBELL, LEVITON, OR COOPER. RECEPTACLES SHALL BE SPECIFICATION GRADE HEAVY-DUTY TYPE RECEPTACLES 2-POLE, 3-WIRE GROUNDING, SIDE WIRING, NEMA 5-20R, 20-AMP, 125 VOLTS, UNLESS SHOWN OTHERWISE. LIGHT SWITCHES SHALL BE RATED 20 AMP. OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY TYPE. SENSORS SHALL BE MANUFACTURER'S RECOMMENDED SIZE AND TYPE. PROVIDE 1/2" PLATE. LOCATION OF SENSORS SHALL BE AS DETERMINED BY MANUFACTURER IN SHOP DRAWING. ACCEPTABLE SENSOR MANUFACTURERS: HUBBELL BUILDING AUTOMATION, WATTSSTOPPER, COOPER.

G. LIGHTING FIXTURES: PROVIDE LIGHTING FIXTURES AS INDICATED ON THE FIXTURE SCHEDULE. LED FIXTURES SHALL BE EQUIPPED WITH ELECTRONIC DRIVERS. FIXTURE CATALOG NUMBERS INDICATE STYLE OF FIXTURE REQUIRED. PROVIDE FIXTURES WITH PROPER FRAMES FOR CEILING TYPES INDICATED ON THE REFLECTED CEILING PLAN. EMERGENCY FIXTURES SHALL BE PROVIDED WITH FACTORY INSTALLED EMERGENCY BATTERY BALLASTS. NOT LESS THAN ONCE EVERY 30 DAYS, SELF-TESTING/SELF-DIAGNOSTIC BATTERY-OPERATED EMERGENCY LIGHTING EQUIPMENT SHALL AUTOMATICALLY PERFORM A TEST WITH A DURATION OF A MINIMUM OF 30 SECONDS AND A DIAGNOSTIC ROUTINE AND SHALL INDICATE FAILURES BY A VISIBLE STATUS INDICATOR ONLY. THE BATTERY SHALL BE CAPABLE OF OPERATING FIXTURE AT 50% LUMEN OUTPUT FOR 90 MINUTES. PROVIDE ALL LOW-VOLTAGE CABLES REQUIRED FOR DIMMABLE FIXTURES AND COORDINATE DIMMER SWITCH AND DRIVER FOR COMPATIBILITY.

H. PANELBOARDS: PROVIDE PANELBOARDS PRODUCED BY ONE OF THE FOLLOWING MANUFACTURERS: GE, SIEMENS, SQUARE D, OR CUTLER HAMMER. PROVIDE PANELBOARDS OF THE TYPE, SIZE, AND RATING INDICATED. LIGHTING AND DISPLIANCE TYPE PANELBOARDS SHALL BE A MINIMUM OF 25 AMP. PANEL SHALL BE EQUIPPED WITH COPPER BUS BARS, FULL-SIZED NEUTRAL BAR, AND A GROUND BUS. CIRCUIT BREAKERS SHALL BE BOLT-IN TYPE, HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK MOLDED CASE CIRCUIT BREAKERS. MULTI-POLE BREAKERS SHALL BE COMMON TRIP WITH A SINGLE HANDEL. PROVISIONS FOR FUTURE BREAKERS SHALL BE FULLY BUSSED COMPATIBLE WITH ALL NEC REQUIREMENTS. PROVIDE 1/2" PLATE. LAMINATED PLASTIC NAMEPLATE. CIRCUIT BREAKERS TO BE INSTALLED IN EXISTING PANELBOARDS SHALL MATCH EXISTING TYPE CIRCUIT BREAKERS. PROVIDE NEW/UPDATED SCHEDULES FOR ALL PANELBOARDS.

- I. GROUNDING: ELECTRICAL GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NEC. PROVIDE ELECTRICAL BRAZING OR EXOTHERMIC CONNECTORS AND TERMINALS. BOLTED CLAMP WILL NOT BE ACCEPTED BETWEEN GROUNDING RODS AND GROUND CONDUCTORS. BOND EQUIPMENT GROUNDING CONDUCTORS TO ALL OUTLET BOXES WITH A SCREW USED FOR ANOTHER PURPOSE. CONNECT EQUIPMENT GROUNDING CONDUCTOR TO DEVICE GROUNDING TERMINALS. PROVIDE BARE OR GREEN INSULATED STRANDED COPPER SIZED ACCORDING TO NEC OR AS SHOWN. GROUND RODS SHALL BE 3/4" DIAMETER X 10' COPPER-CLAD STEEL, SECTIONAL TYPE.
- J. DISCONNECT SWITCHES: PROVIDE DISCONNECTS PRODUCED BY ONE OF THE FOLLOWING MANUFACTURERS: GE, SIEMENS, SQUARE D, OR CUTLER HAMMER. PROVIDE HEAVY DUTY TYPE. SHEET STEEL ENCLOSED SAFETY SWITCHES, INCORPORATING QUICK-BREAK TYPE SWITCHES. PROVIDE SWITCHES SHALL BE UL LISTED. DISCONNECTS SHALL BE NON-FUSED TYPE, UNO.
- K. SPD: PROVIDE SPD UNITS CONNECTED IN PARALLEL WITH POWER DISTRIBUTION EQUIPMENT. SPD UNITS SHALL BE MOUNTED EXTERNAL TO POWER DISTRIBUTION EQUIPMENT. THE USE OF SPD UNITS INTEGRAL WITH POWER DISTRIBUTION EQUIPMENT IS NOT ACCEPTABLE. PROVIDE SPD UNITS BY THE FOLLOWING MANUFACTURERS/SERIES: SURGE SUPPRESSION, INC. CURRENT TECHNOLOGIES TG, AND ADVANCED PROTECTION TECHNOLOGIES. SPD FOR SERVICE EQUIPMENT SHALL BE AS FOLLOWS: SINGLE PULSE SURGE CAPACITY PER MODE: 150,000 AMPS AND MODES: L-L, L-N, AND L-G. ALL UNITS SHALL HAVE THE FOLLOWING FEATURES: PULSE LED INDICATOR LIGHTS, DISTURBANCE COUNTER, 5-YEAR REPAIR/REPLACEMENT WARRANTY FROM MANUFACTURER IN THE NAME OF THE OWNER. INSTALL SPD UNITS ADJACENT TO ELECTRICAL EQUIPMENT, ENSURING THAT LEAD LENGTHS ARE AS SHORT AS POSSIBLE TO ACHIEVE MAXIMUM PROTECTION. CONNECT TO CIRCUIT BREAKER IN ELECTRICAL EQUIPMENT AS SHOWN ON THE MANUFACTURER'S WIRING DIAGRAMS.
4. REFER TO ARCHITECTURAL SECTION FOR LOCATION OF FIRE RATED WALLS AND CEILINGS. ALL OUTLETS, FIXTURES, AND THROUGH PENETRATIONS SHALL BE MADE IN ACCORDANCE WITH THE NFPA 70 AND THE UL DESIGN No. OF THE TYPE OF CONSTRUCTION ENCOUNTERED.
5. SUBMITTALS: SUBMIT TO THE ARCHITECT FOR APPROVAL BEFORE BEGINNING CONSTRUCTION THE FOLLOWING:
 - A. DATA SHEETS ON ALL ITEMS LISTED ABOVE.
 - B. SCALED LAYOUT OF ELECTRICAL SPACES BASED ON THE ELECTRICAL EQUIPMENT BEING INSTALLED.
 - C. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL HVAC CONNECTION REQUIREMENTS WITH HVAC CONTRACTOR PRIOR TO ORDERING ELECTRICAL GEAR. HVAC UNITS SELECTED BY CONTRACTOR MAY DIFFER SLIGHTLY FROM THOSE IN THE BASIS OF DESIGN. ANY DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.



CITY OF AUGUSTA
BOYKIN PARK
RICHMOND COUNTY, GA

No.	Submittal / Revision	App'd.	By	Date
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100% CD	WFS	WRL	01/30/21
PERMIT SET	WFS	WRL	11/21/21

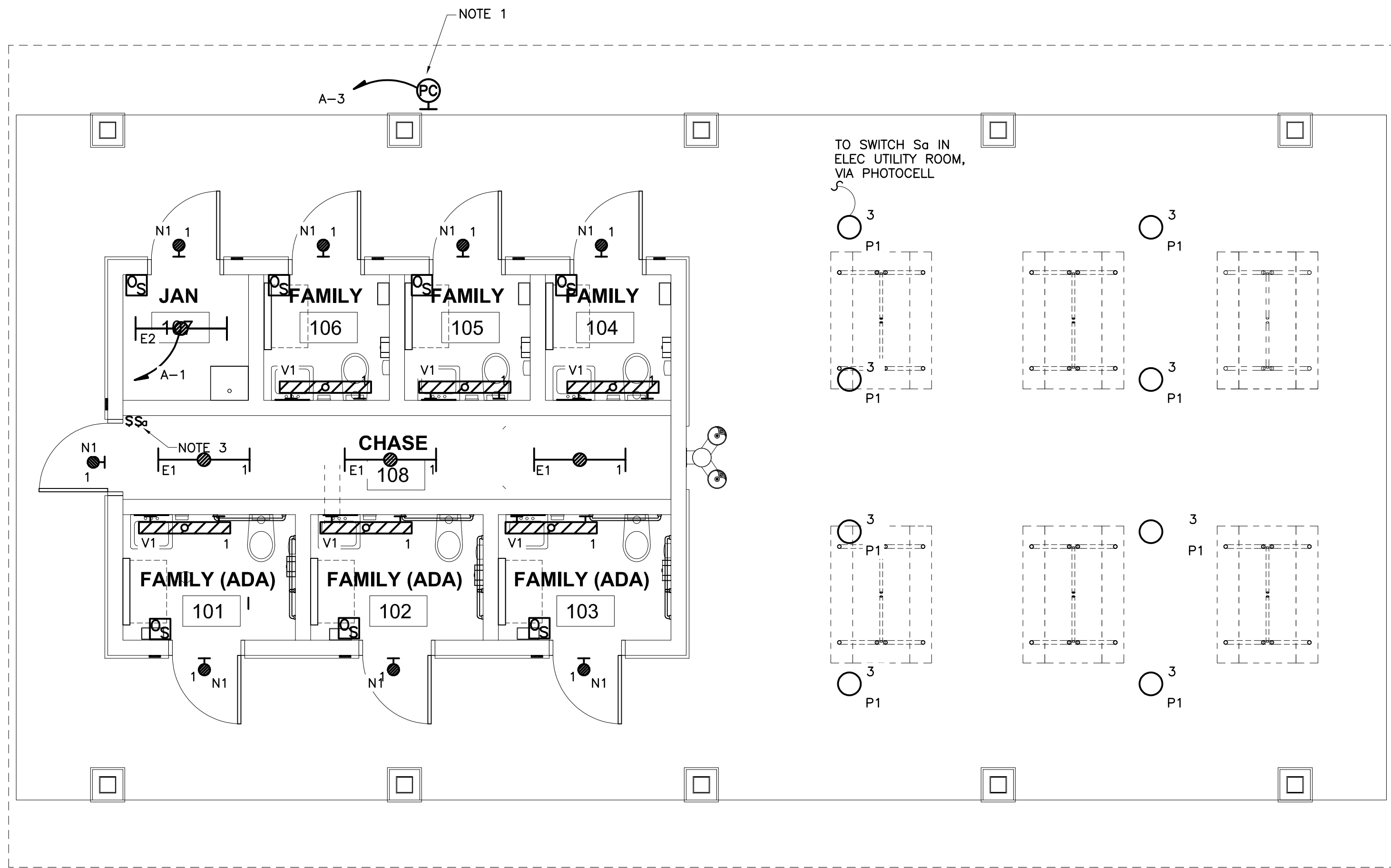
ELECTRICAL LEGEND

Designed By: WRL	Drawn By: WRL	Checked By: WRL
Issue Date: 09/30/2024	Project No: 080083	Scale: AS SHOWN

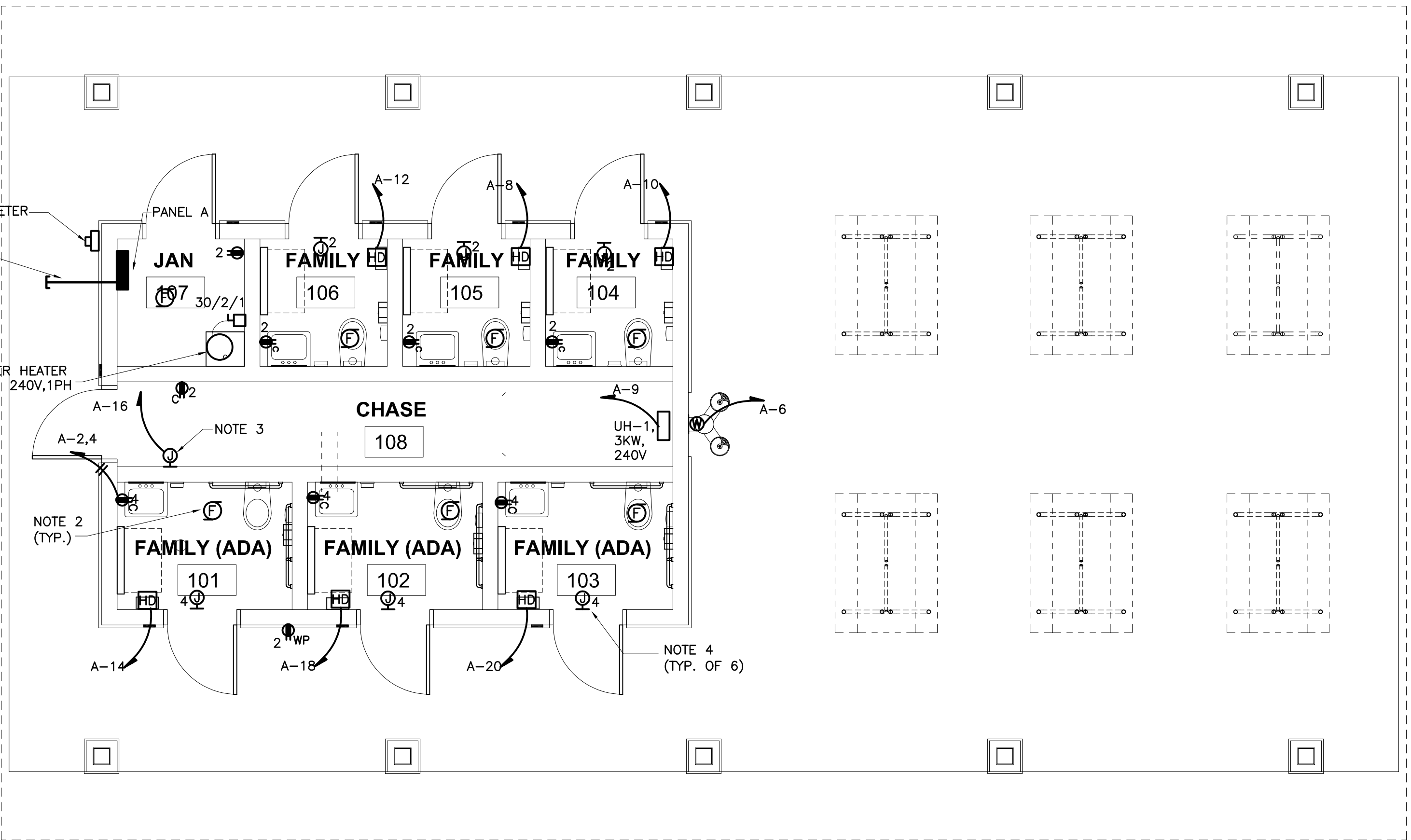
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1 LIGHTING PLAN
E-100 SCALE: 1/4" = 1' - 0"



2 POWER PLAN
E-100 SCALE: 1/4" = 1' - 0"

LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER/SERIES	REFLECTOR/DIFFUSER	FINISH	MOUNTING	LUMENS	NOTES
E2	4' LED STRIP	CREE C-LITE SERIES	ACRYLIC LENS	WHITE	CEILING	5000	PROVIDE INTEGRAL BATTERY
N1	LED AREA LIGHT	NLS LIGHTING TWL SERIES OR PRIOR APPROVED EQUAL	POLYCARBONATE LENS/ TYPE 4 DISTRIBUTION	DARK BRONZE	ABOVE DOOR	2500	WET LOCATION, INTEGRAL PHOTOCELL & BATTERY, NOTE 2
P1	LED PENDANT	NLS LIGHTING TCL SERIES OR PRIOR APPROVED EQUAL	POLYCARBONATE LENS	DARK BRONZE	SURFACE, SWIVEL MOUNT	4000	WET LOCATION RATED
V1	4' VANDAL RESISTANT STRIP	ADVANTAGE ENVIRONMENTAL LIGHTING LWV60 SERIES OR PRIOR APPROVED EQUAL	POLYCARBONATE LENS	WALL	SURFACE, ABOVE MIRROR	5000	INTEGRAL BATTERY

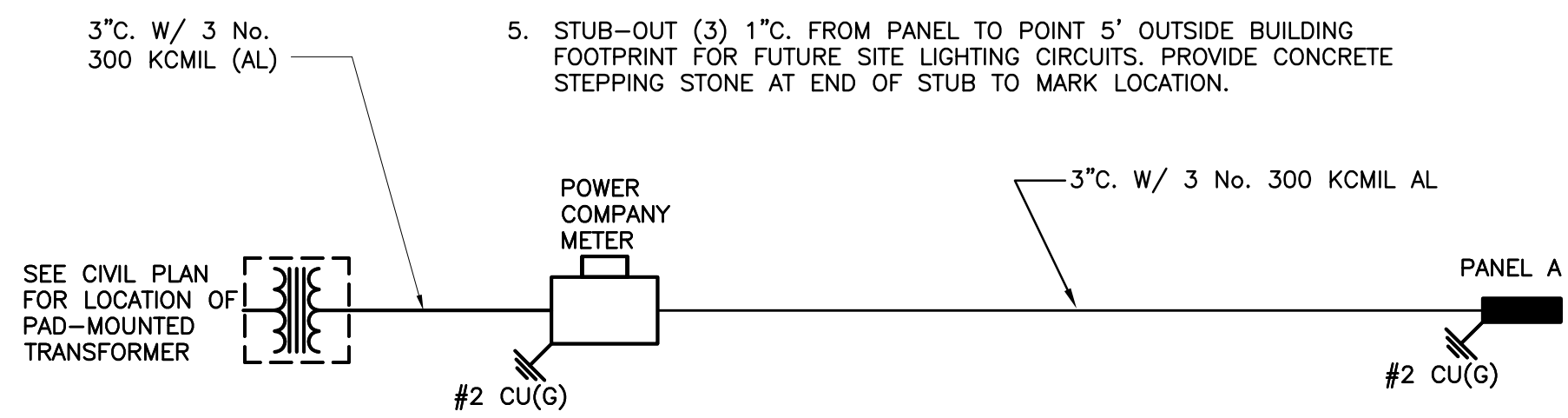
LIGHTING NOTES:

- LOCATE PHOTOCELL ON NORTH SIDE OF BUILDING, UNDER EAVE AND AWAY FROM OTHER ARTIFICIAL SOURCES OF LIGHT. EXTEND CIRCUIT THROUGH SWITCH S_a.
- REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR EXACT LOCATION OF TYPE N1.
- PROVIDE PLASTIC ENGRAVED LABEL ON SWITCH S_a TO READ "PAVILION LIGHTS".

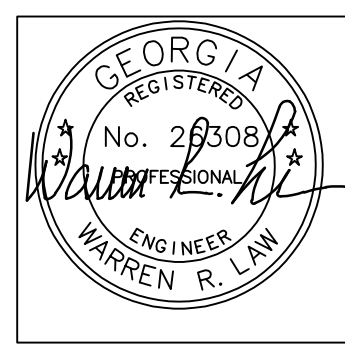
PANELBOARD SCHEDULE A											
MAINS :		250A MB W/ SHUNT TRIP						MTG :		SURFACE	
VOLTAGE :		240/120		PHASE: 1		WIRE: 3		A.I.C. :		42,000	
DEVICE			BRANCH CIRCUIT			PHASE LOAD (V-A)			BRANCH CIRCUIT		
NO.	TRIP	POLE	DESIGNATION	V-A	PH 1	PH 2	V-A	DESIGNATION	POLE	TRIP	NO.
1	20	1	LIGHTING	1,000	2,400		1,400	RECEPTACLES	1	20	2
3	20	1	PAVILION LIGHTING	1,600		3,000	1,400	RECEPTACLES	1	20	4
5					1,000		1,000	WATER COOLER	1	20*	6
7						2,000	2,000	HAND DRYER	1	20	8
9	20	2	UH-1	1,500	3,500		2,000	HAND DRYER	1	20	10
11				1,500		3,500	2,000	HAND DRYER	1	20	12
13	20	2	WATER HEATER	1,500	3,500		2,000	HAND DRYER	1	20	14
15				1,500		2,500	1,000	HEAT TRACE TAPE	1	20	16
17	20	1	SITE LIGHTING	1,500	3,500		2,000	HAND DRYER	1	20	18
19	20	1	SITE LIGHTING	1,500		3,500	2,000	HAND DRYER	1	20	20
21	20	1	SITE LIGHTING	1,500	1,500			SPARE	1	20	22
23	20	1	SITE LIGHTING	1,500		1,500		SPARE	1	20	24
25	20	1	SITE LIGHTING	1,500	1,500			SPARE	1	20	26
27	20	1	SITE LIGHTING	1,500		1,500		SPARE	1	20	28
29	20	1	SITE LIGHTING	1,500	1,500			SPARE	1	20	30
31			SPACE					SPACE	1		32
33			SPACE					SPACE	1		34
35			SPACE					SPACE	1		36
37			SPACE					SPACE	1		38
39			SPACE					SPACE	1		40
41			SPACE					SPACE	1		42
CONNECTED				18,400		17,500		TTL :	35,900		
DEMAND				18,400		17,500		TTL :	35,900		
* - PROVIDE GFI TYPE BREAKER.											

POWER NOTES:

- CONNECT FAN TO LIGHTING CIRCUIT IN SAME SPACE. FAN SHALL START WHEN LIGHTS TURN ON.
- COORDINATE SERVICE REQUIREMENTS AND CONSTRUCTION SCHEDULE WITH LOCAL POWER COMPANY REPRESENTATIVE PRIOR TO ROUGH-IN.
- PROVIDE CONNECTION TO HEAT TRACE TAPE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH M-SHEETS AND INSTALLER.
- PROVIDE CONNECTION AND APPROPRIATE ROUGH-IN FOR DOOR MAGLOCK SYSTEM. COORDINATE WITH LOCK INSTALLER PRIOR TO ROUGH-IN.
- STUB-OUT (3) 1" C. FROM PANEL TO POINT 5' OUTSIDE BUILDING FOOTPRINT FOR FUTURE SITE LIGHTING CIRCUITS. PROVIDE CONCRETE STEPPING STONE AT END OF STUB TO MARK LOCATION.



3 ONE-LINE DIAGRAM
E-100 SCALE: NTS



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CITY OF AUGUSTA
BOYKIN PARK
RICHMOND COUNTY, GA

No.	Submital / Revision	App'd. By	Date
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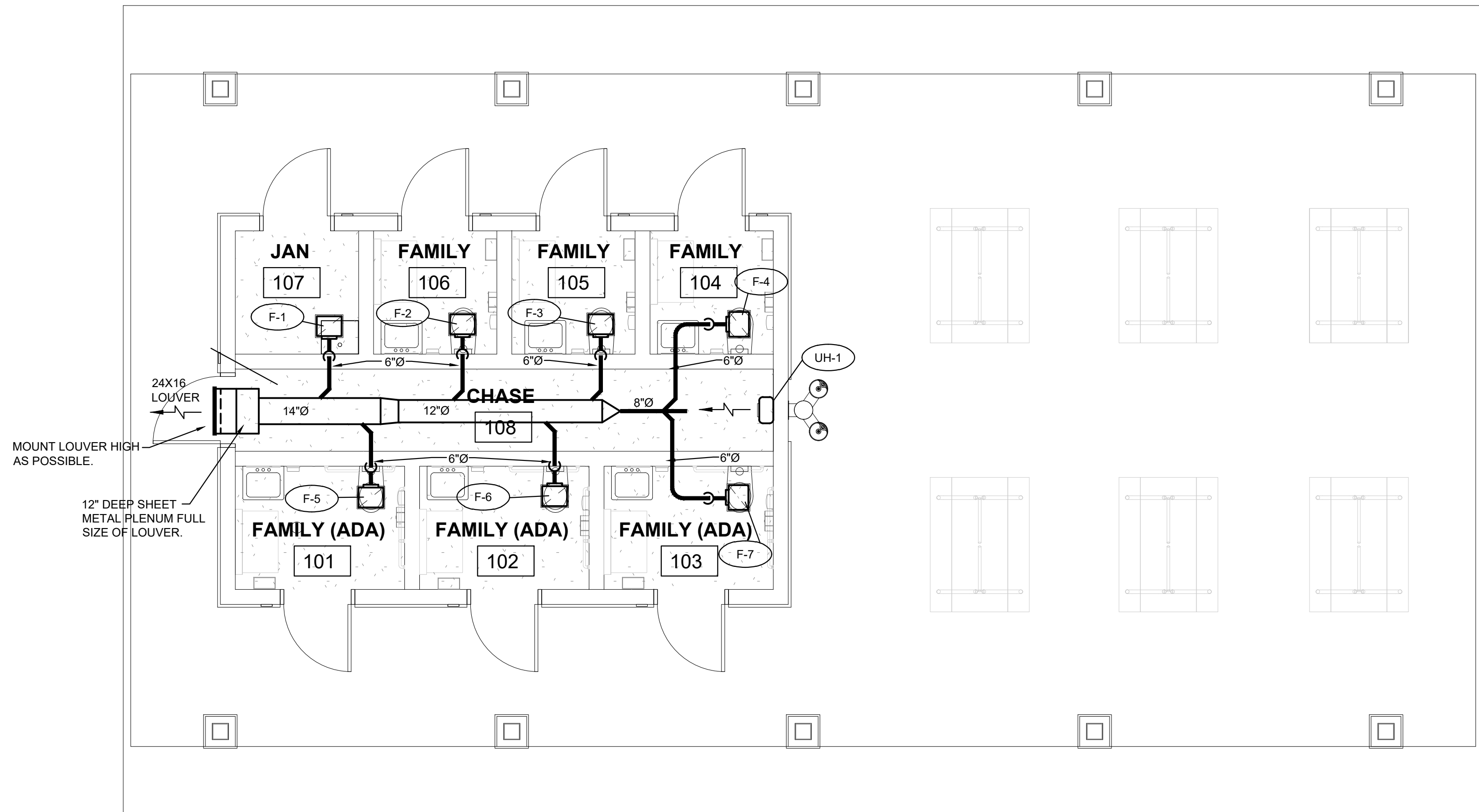
100% CD	WFS /WRL	01/30/2026
PERMIT SET	WFS /WRL	11/21/2025

ELECTRICAL PLAN

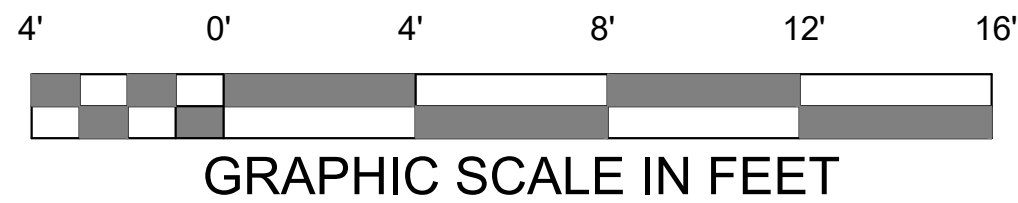
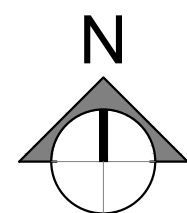
Designed By: WRL	Drawn By: WRL	Checked By: WRL
Issue Date: 09/30/2024	Project No: 080083	Scale: AS SHOWN

Drawing No:

E-100



1 HVAC PLAN
M-100 SCALE: 1/4\"=1'-0"



EXISTING WORK IS SHOWN IN ITS APPROXIMATE LOCATION AND ARRANGEMENT. EXISTING WORK SHOWN MAY NOT INCLUDE ALL EXISTING CONDITIONS. EXACT LOCATION, ARRANGEMENT, AND SIZES SHALL BE VERIFIED BEFORE STARTING ANY NEW WORK OR ORDERING ANY MATERIALS.

ALL DUCTWORK AND PIPING SHALL BE CONCEALED UNLESS NOTED OTHERWISE.

UNLESS DIMENSIONED, PIPING, DUCTWORK, AND EQUIPMENT ARE SHOWN IN APPROXIMATE LOCATIONS. EXACT CONFIGURATION SHALL BE DETERMINED IN THE FIELD TO COORDINATE WITH OTHER TRADES AND TO ALLOW FOR A MINIMUM NUMBER OF OFFSETS AS POSSIBLE WHILE ALLOWING FOR ADEQUATE MAINTENANCE ACCESS.

FURNISH FLANGED OR UNION CONNECTIONS IN PIPING AT ALL EQUIPMENT AND CONTROL VALVES, AND AS REQUIRED FOR SERVICE.

DUCT ACCESS DOORS SHALL BE FURNISHED AT ALL FIRE AND SMOKE DAMPERS, DUCT MOUNTED COILS, AND AT ALL DUCT MOUNTED CONTROL DEVICES.

ALL UNDERGROUND PIPING SHALL HAVE 24" MINIMUM COVER.

THERMOSTAT LOCATIONS SHALL BE A MINIMUM OF 8" AWAY FROM DOOR FRAMES. COORDINATE LOCATION OF THERMOSTATS WITH LIGHT SWITCHES AND OTHER WALL DEVICES FOR SYMMETRY. MOUNT AT 4'-0" A.F. UNLESS NOTED OTHERWISE.

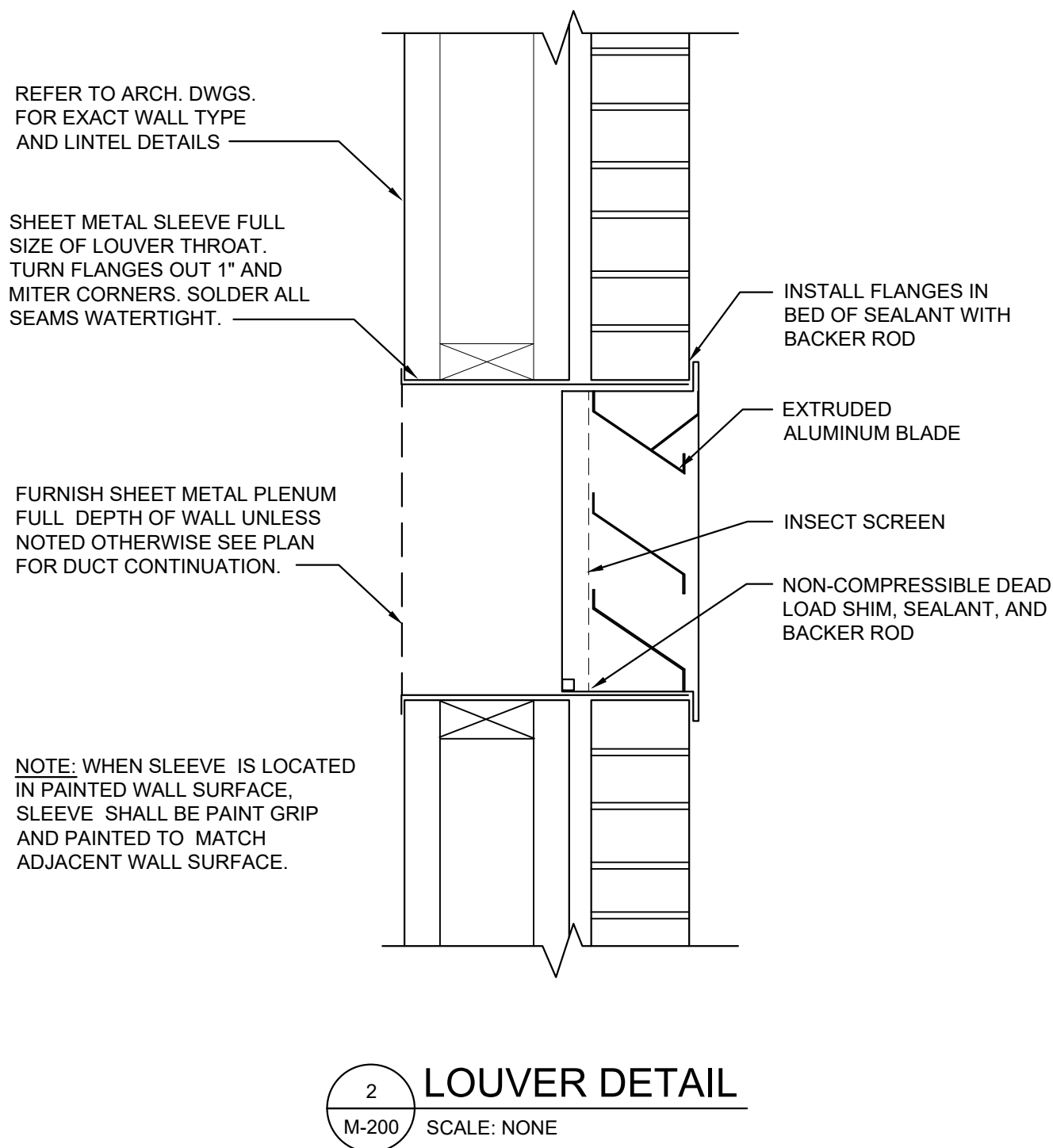
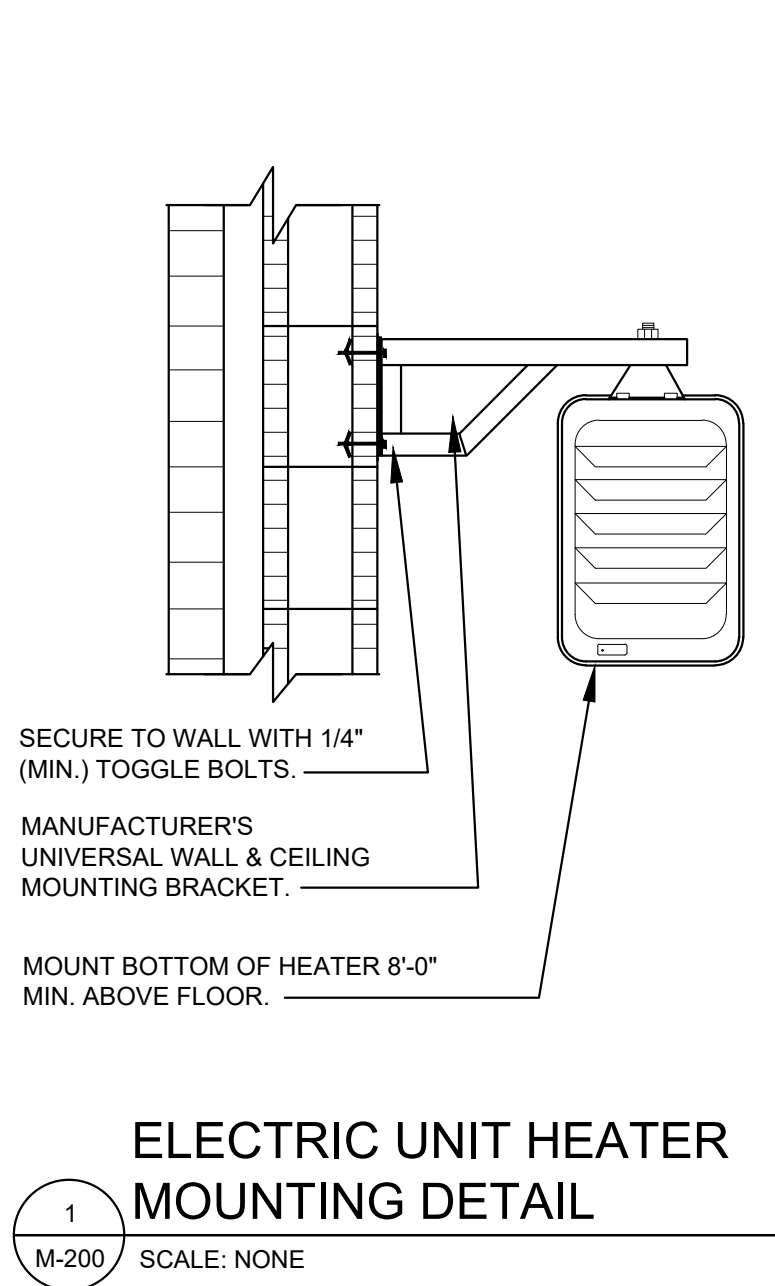
H.V.A.C. LEGEND	
SYMBOL	DESCRIPTION
TYP.	TYPICAL
S.P.	STATIC PRESSURE
①	THERMOSTAT 4'-0" A.F.
∅	DIAMETER
	FLEXIBLE DUCT CONNECTION AT UNIT
	LINED DUCT (SIZE SHOWN IS METAL SIZE)
	SQUARE ELBOW WITH TURNING VANES
 MVD	MANUAL VOLUME DAMPER
⌘ C.F.M.	CUBIC FEET PER MINUTE
	EQUIPMENT NUMBER - SEE SCHEDULES
	AIRFLOW DIRECTION

[illegible]

3) COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS & CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES FOUND.

ITEM	LOCATION	WATTS	QMARK MODEL NO.	ELECTRICAL DATA (2)		NOTES
				VOLTS	PHASE	
UH-1	PIPING CHASE	3000	MUH -03	240	1	(1)

1) FURNISH BRACKET FOR SUSPENDED MOUNTING AND UNIT THERMOSTAT.
2) COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS & CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES FOUND.



MARK	TYPE	NECK SIZE	FINISH	OPPOSED BLADE DAMPER	TITUS MODEL NUMBER	NOTES
LOUVER	STATIONARY LOUVER	SEE PLANS	(1)	NO	GREENHECK ESD-6	

(1) EXTRUDED ALUMINUM LOUVER - BAKED ENAMEL FINISH, STANDARD COLOR SELECTED BY ARCHITECT. FURNISH INSECT SCREEN AND FLANGE FRAME.

IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

CITY OF AUGUSTA
BOYKIN PARK
RICHMOND COUNTY, GA

Submittal / Revision	App'd.	By	Date
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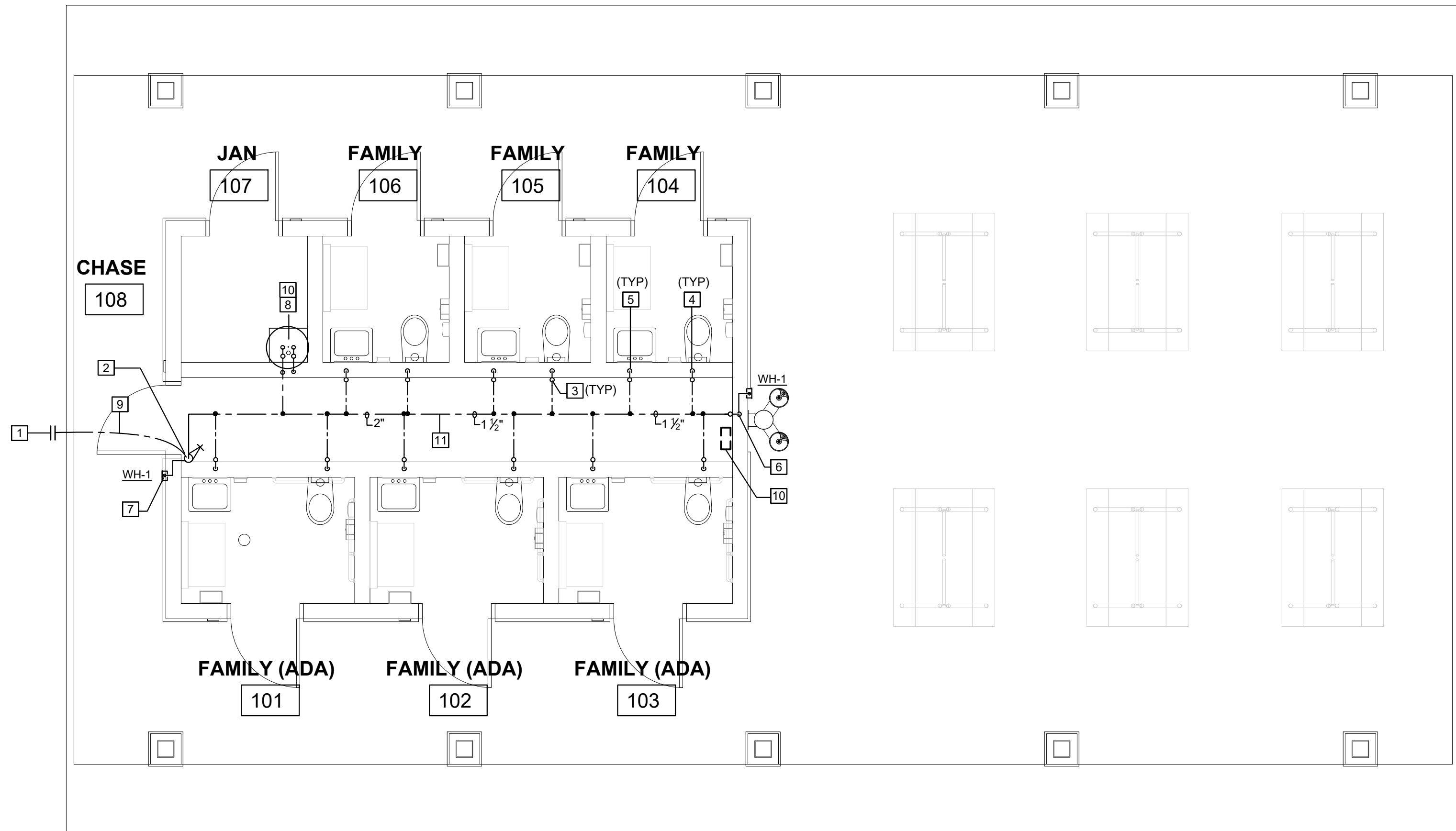
100% CD		CAB	01/30/2
PERMIT SET		CAB	11/21/2

HVAC NOTES, LEGEND,
SCHEDULES, & DETAILS

Designed By: CAB	Drawn By: TAG	Checked By: CAB
Issue Date: 09/2025	Project No: 080083	Scale: AS SHOWN

Drawing No:

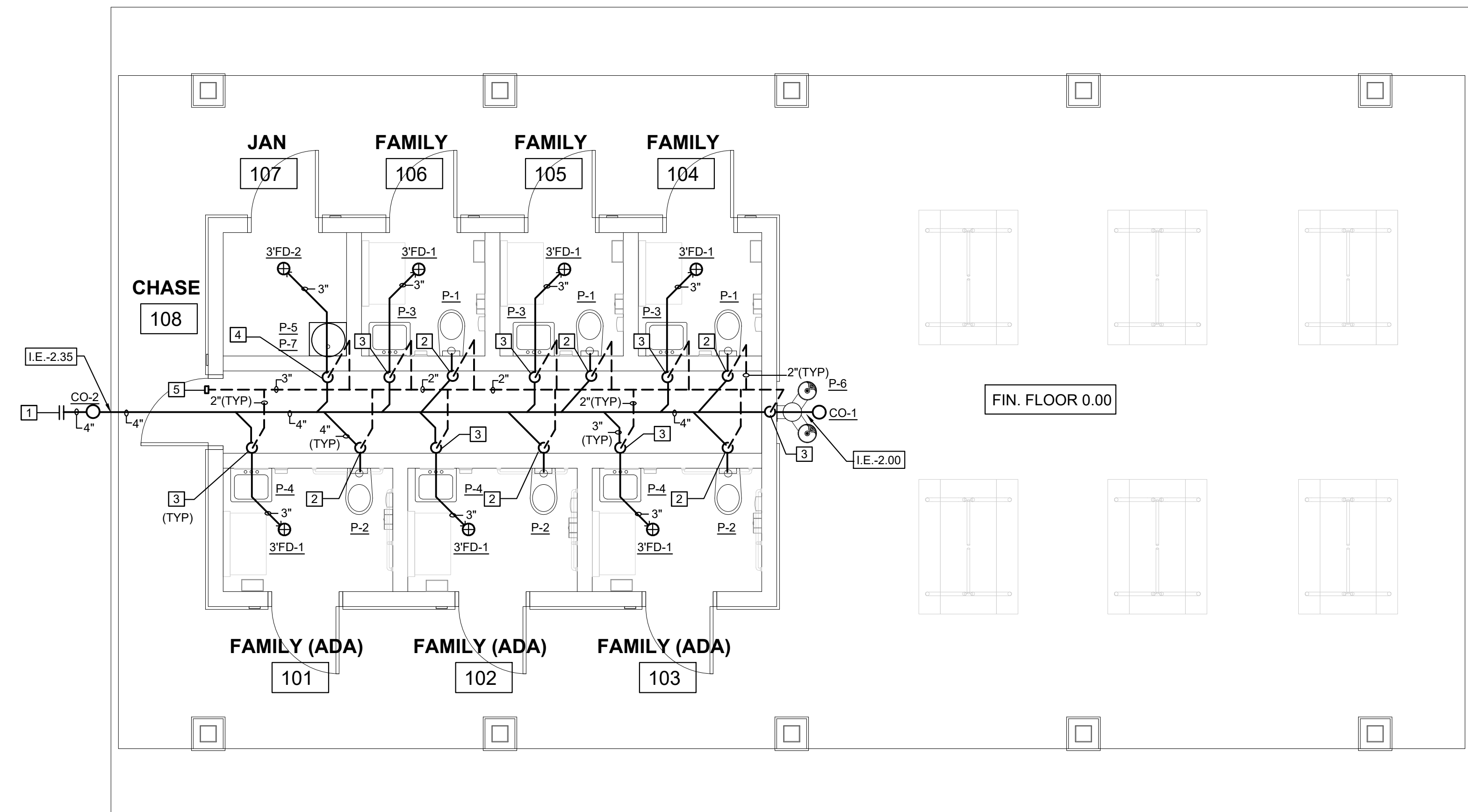
M-200



2 WATER PIPING PLAN
P-100 SCALE: 1/4" = 1' - 0"

WATER PIPING KEY NOTES - THIS SHEET

- 1 EXTEND TO 5'-0" BEYOND BUILDING AND PROVIDE TEMPORARY CAP. CONTINUATION BY OTHERS.
- 2 2" CW UP. PROVIDE GATE VALVE ON RISER $\pm$ 12" A.F.F. WITH WALL HYDRANT 18" A.F.G. SEE DETAIL 10/P-200.
- 3 INDICATES NEW SHOCK ABSORBER (SA) "X". UNLESS NOTED ON DRAWINGS, SIZE SHALL BE "A". PROVIDE BALL VALVE ON CONNECTION TO SA. SEE DETAIL 7/P-200
- 4 1 1/2" CW DOWN AND THRU WALL TO WATER CLOSET.
- 5 1/2" CW DOWN AND THRU WALL TO LAVATORY.
- 6 3/4" CW DOWN. PROVIDE 1/2" CW DOWN TO DRINKING FOUNTAIN. PROVIDE 3/4" CW DOWN TO WALL HYDRANT.
- 7 3/4" CW DOWN TO WALL HYDRANT.
- 8 3/4" CW DOWN TO MOP RECEPTOR AND WATER HEATER. SEE DETAIL 9/P-101. PROVIDE CHECK VALVES ON SUPPLIES TO MOP RECEPTOR.
- 9 ROUTE 2" CW PIPING UNDERSLAB WITH CONTINUOUS TYPE "L" SOFT COPPER.
- 10 UNIT HEATER, UNDER MECHANICAL SEE "M" DRAWINGS
- 11 RUN WATER PIPING BELOW CEILING.

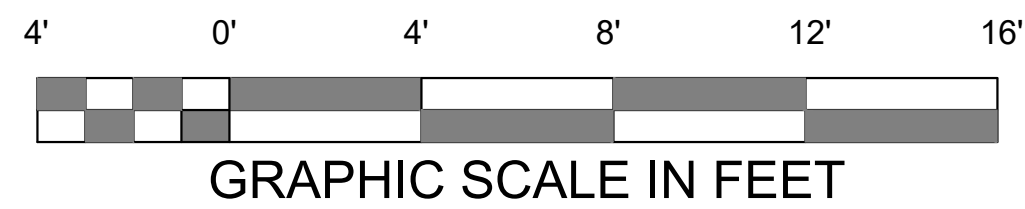


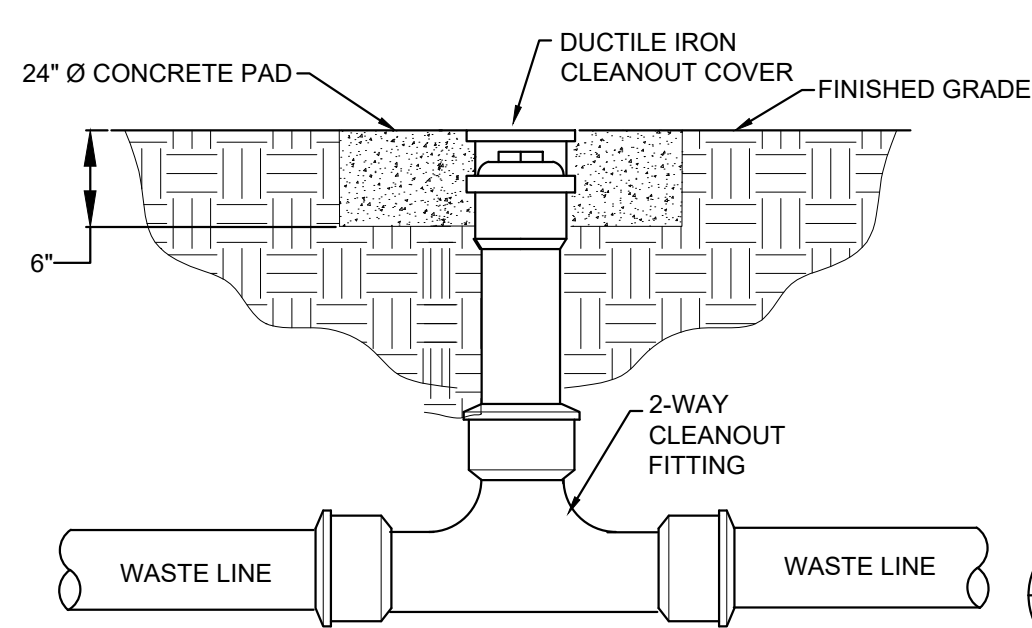
1 WASTE & VENT PIPING PLAN
P-100 SCALE: 1/4" = 1' - 0"

WASTE AND VENT KEY NOTES - THIS SHEET

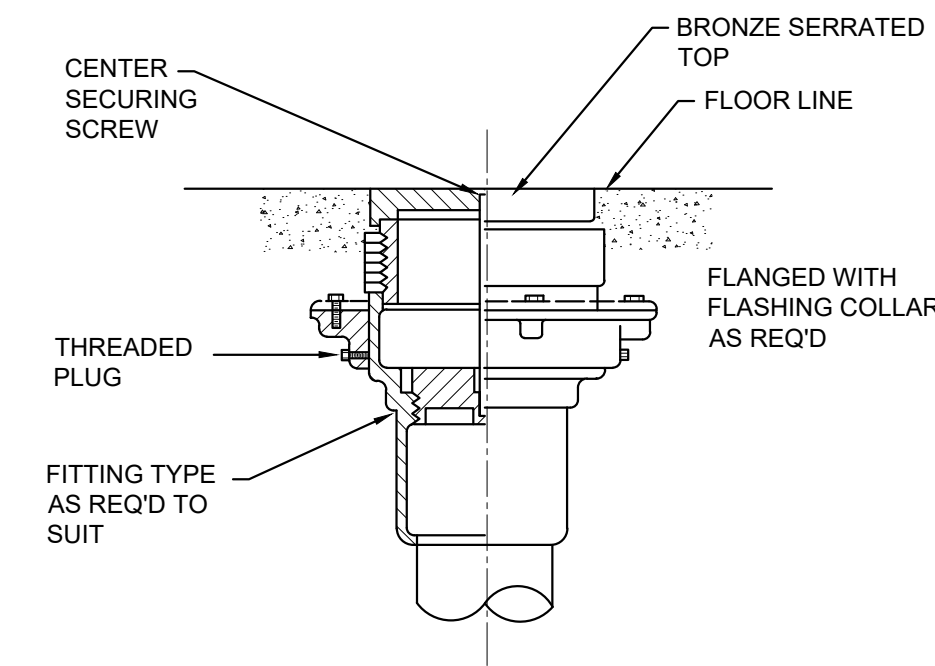
- 1 EXTEND TO 5'-0" BEYOND BUILDING AND PROVIDE TEMPORARY CAP. CONTINUATION BY OTHERS.
- 2 4" WASTE, 2" VENT.
- 3 2" WASTE, 2" VENT.
- 4 2" VENT.
- 5 3" VENT. EXTEND TO SIDEWALL VENT. MOUNT AS HIGH AS POSSIBLE CENTERED IN GABLE.

NOTE: ALL VENTS SHALL BE EXTENDED THRU ROOF AND SHALL MAINTAIN 10'-0" CLEARANCE FROM FRESH AIR INTAKES. (TYPICAL)

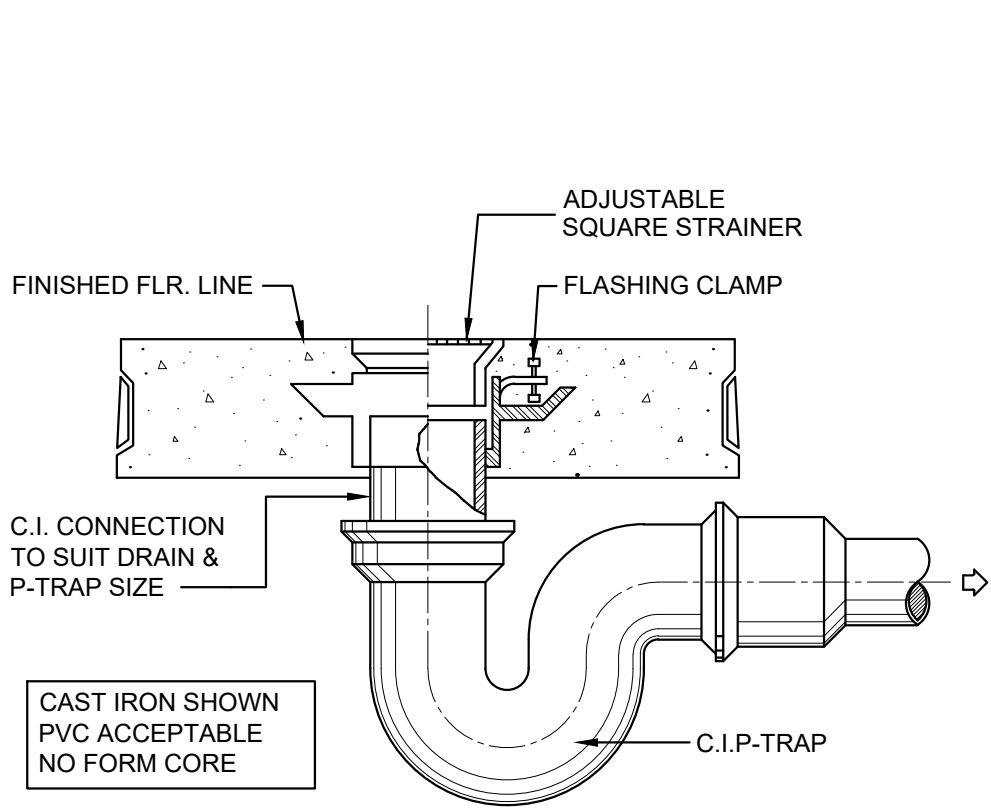




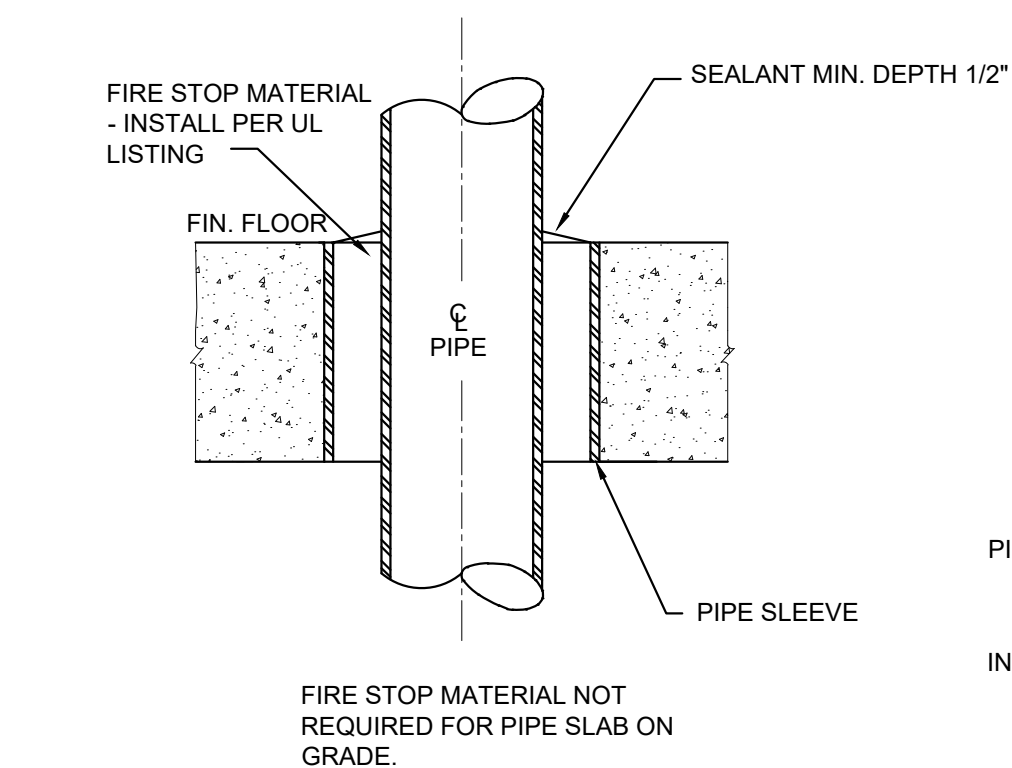
1 EXTERIOR CLEANOUT DETAIL
P200 NOT TO SCALE



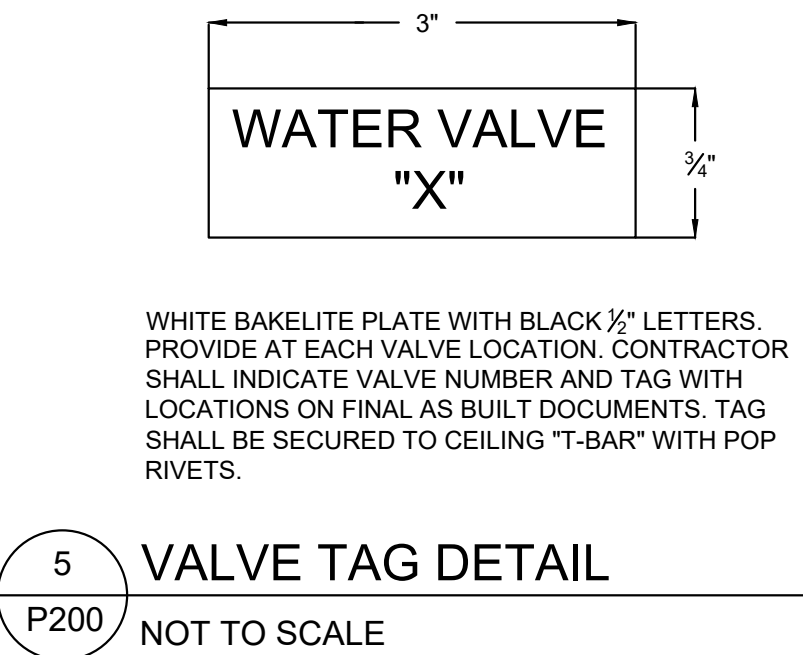
2 INTERIOR CLEANOUT DETAIL
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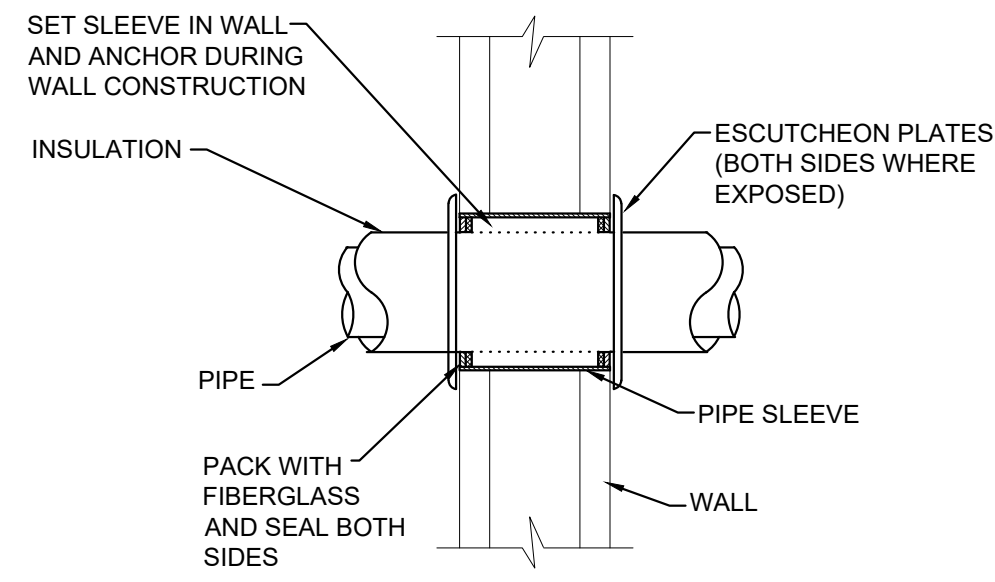
3 TYPICAL FLOOR DRAIN DETAIL
P200 NOT TO SCALE



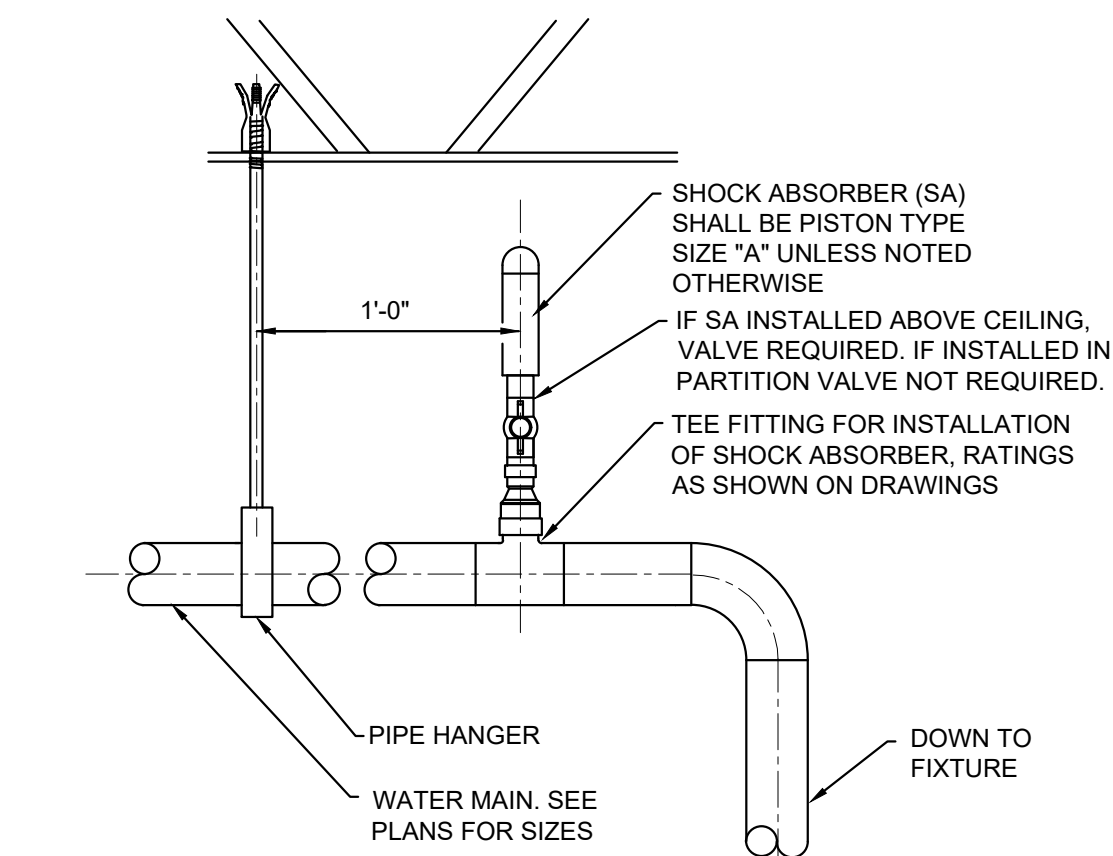
4 PIPE THRU FLOOR SLAB DETAIL
P200 NOT TO SCALE



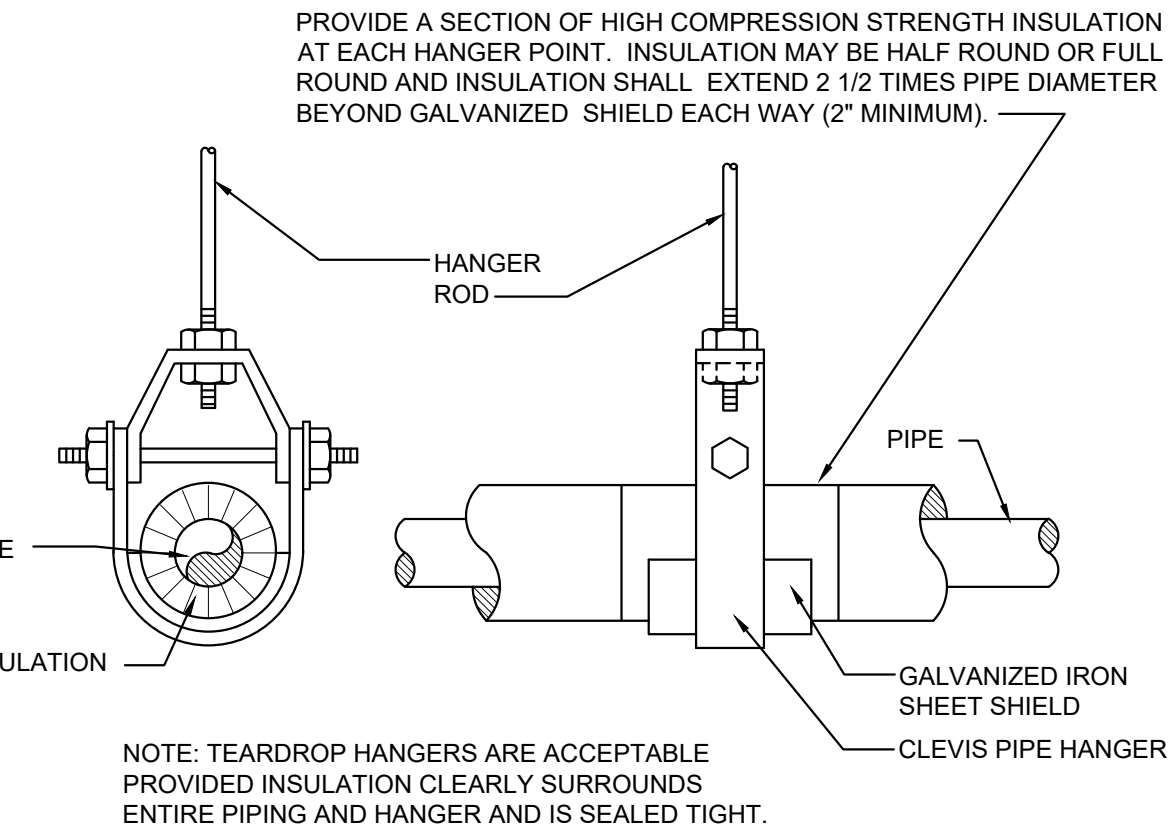
5 VALVE TAG DETAIL
P200 NOT TO SCALE



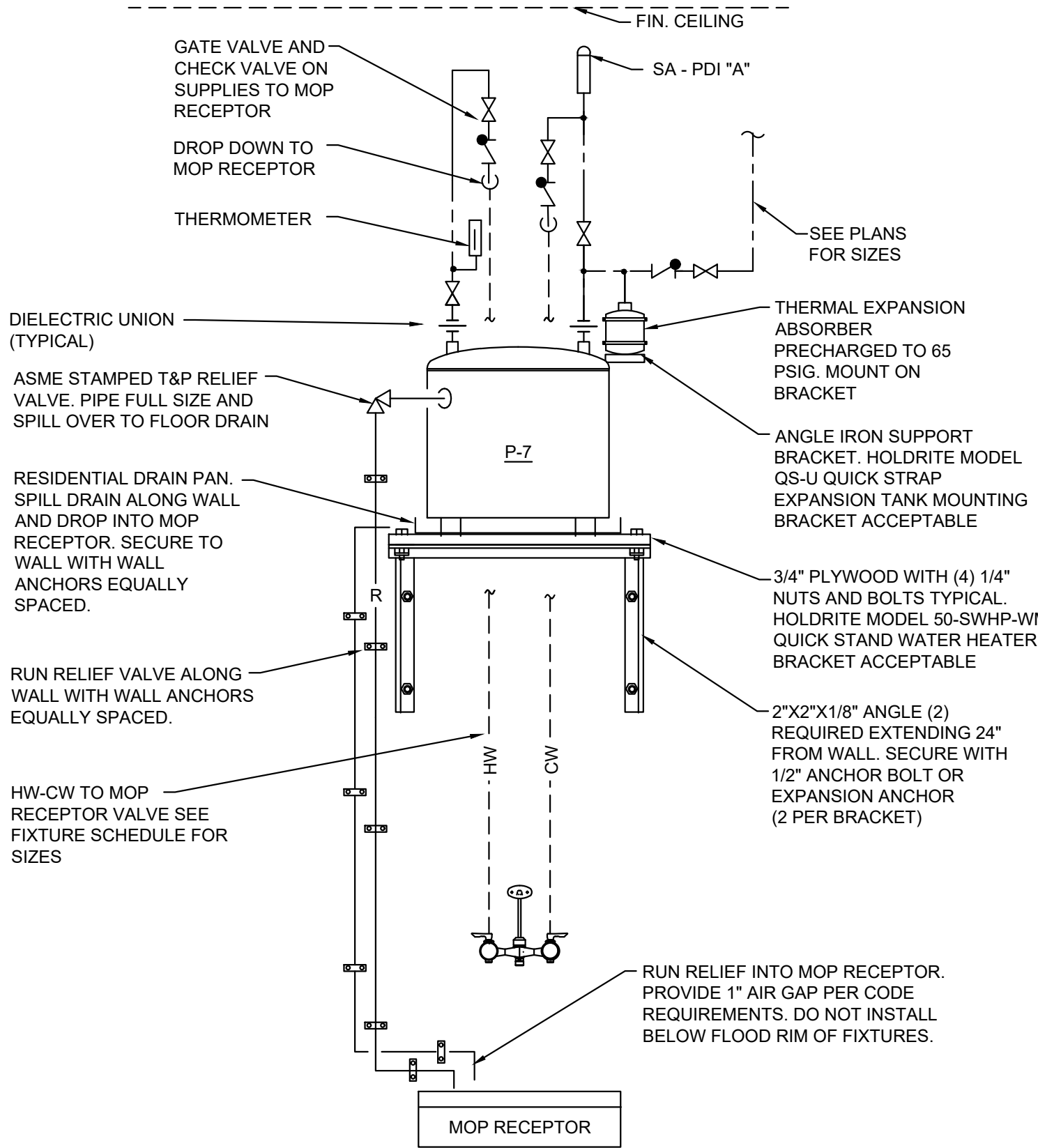
6 PIPE SLEEVE THRU WALL DETAIL
P200 NOT TO SCALE



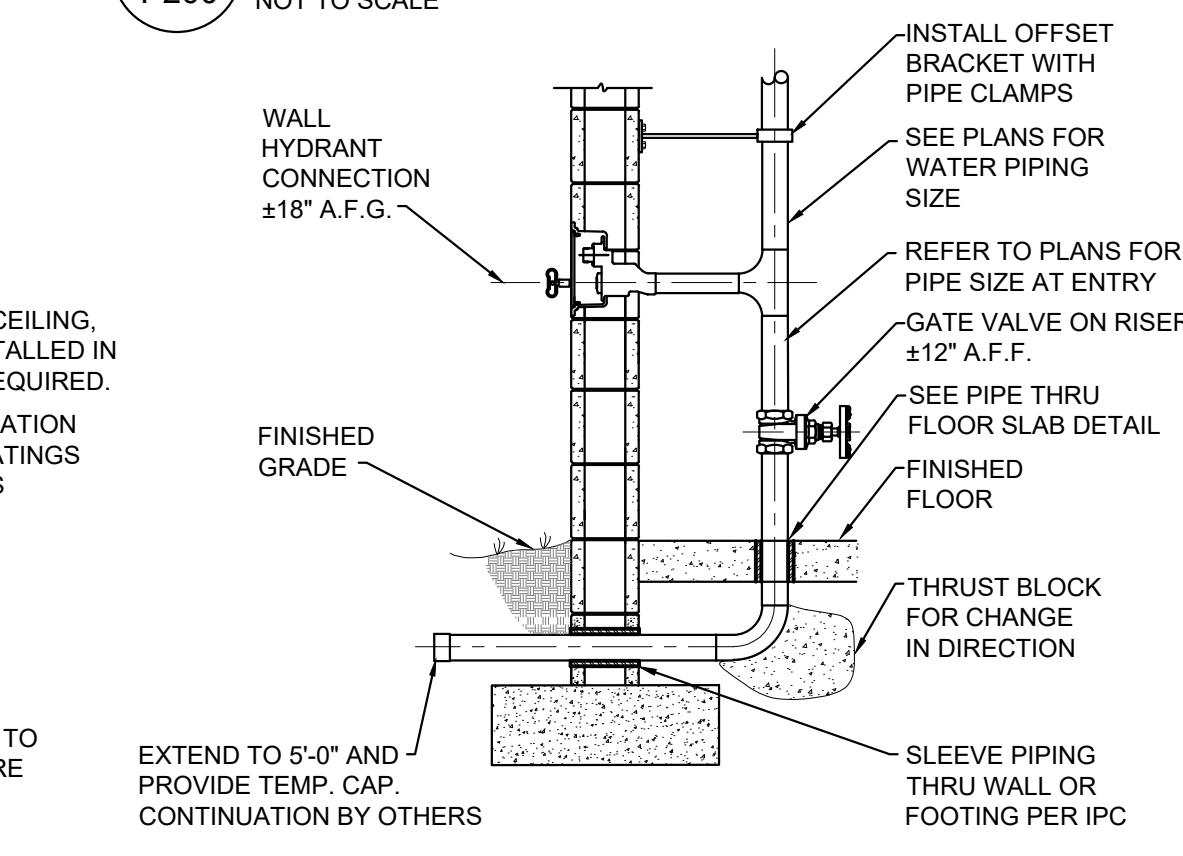
7 SHOCK ABSORBER DETAIL
P200 NOT TO SCALE



8 PIPE HANGER DETAILS
P200 NOT TO SCALE FOR PIPE 2 1/2" AND SMALLER



9 PLATFORM WATER HEATER DETAIL
P200 NOT TO SCALE



10 WATER RISER DETAIL
P200 NOT TO SCALE

PLUMBING FIXTURE SCHEDULE									
SYM	FIXTURE	PIPE SIZES				RIM HGT	MTG HGT	DESCRIPTION (AM. STD. REFERENCED)	
		W	V	CW	HW				
P-1	TOILET	4"	2"	1 1/4"	--	15"		ACORN DURA-WARE 2105-W-1-1-28-FVBO-HPS; SS SIPHON JET TOILET, REAR OUTLET AND INTEGRAL SEAT. CONCEALED SLOAN ROYAL #152-128-10-3/4"-L DIM FLUSH VALVE. JR SMITH 0230Y FIXTURE SUPPORT.	1
P-2	TOILET H/C	4"	2"	1 1/4"	--	ADA		SAME AS P-1 WITH ADA MOUNTING HEIGHT.	1
P-3	LAVATORY	2"	2"	1/2"	--	27"		ACORN PENAL-WARE 1652-1-BP-LW1; SS LAVATORY, THRU-WALL WASTE EXTENSION, SUPPLIES, STOPS, AND WASTE. JR SMITH 801 FIXTURE SUPPORT.	1
P-4	LAVATORY H/C	2"	2"	1/2"	--	ADA		SAME AS P-3 WITH ADA MOUNTING HEIGHT.	1 2
P-5	MOP RECEPTOR	3"	2"	1/2"	1/2"	V.A. 41"		FIAT MSB 2424; 830-AA FAUCET, 833-AA HOSE & BRACKET, 889-CC HANGAR, AND E-88-AA SS GUARD.	
P-6	OUTDOOR DRINK FOUNTAIN	2"	2"	1/2"	--	--		ELKAY LK4406; HEAVY DUTY, VANDAL RESISTANT NON-FILTERED, NON-REFRIGERATED FOUNTAIN. COLOR TO BE SPEC'D BY ARCHITECT.	
P-7	WATER HEATER	--	--	3/4"	3/4"	--		A.O. SMITH DEL-10, 10 GAL, 3KW, 208/1Ø. COORDINATE WITH ELECTRICAL.	
SWV	SIDEWALL VENT	3"	--	--	--	--		J.R. SMITH, 9005 FRESH AIR VENT	
FD-1	FLOOR DRAIN (GENERAL)	3"	--	--	--	--		WATTS FD-100-A	3 4
FD-2	FLOOR DRAIN (MECH.RM)	3"	--	--	--	--		WATTS FD-100-ER	3 4
WH-1	WALL HYDRANT	--	--	3/4"	--	12" INT 18" EXT		WATTS HY-330	
CO-1	CLEAN OUT INTERIOR	4"	--	--	--	--		WATTS CO-380	
CO-2	CLEANOUT EXTERIOR	4"	--	--	--	--		WATTS CO-380, PROVIDE 2 WAY FITTING	

PLUMBING FIXTURE KEY NOTES:	
(1)	MOUNT AT ADA HEIGHT. ADA SHALL CONFORM TO ACCESSIBILITY CODE. REFER TO CODE FOR GUIDANCE. WHERE CONFLICTS ARISE BETWEEN ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS, ARCHITECTURAL DRAWING SHALL GOVERN.
(2)	PROVIDE PROTECTIVE PIPE COVERS FOR ALL HANDICAP LAVATORIES
(3)	PROVIDE 7" STRAINER ON 3" DRAIN AND 9" STRAINER ON 4" DRAINS. PROVIDE SUFFIX "M" (SQUARE TOP) FOR QUARRY TILE AND CERAMIC TILE FLOORS AND SUFFIX "A" (ROUND TOP) FOR ALL OTHER FLOORS.
(4)	PROVIDE TRAP GUARDS ON ALL HUB DRAINS AND FLOOR DRAINS. IF APPROVED BY LOCAL AHJ. IF NOT APPROVED PROVIDE TRAP PRIMERS

GENERAL PLUMBING NOTES	
1.	EXACT LOCATIONS AND ROUGHING REQUIREMENTS FOR ALL FIXTURES AND EQUIPMENT SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS. LARGE SCALE ARCHITECTURAL DETAILS AND APPROVED MANUFACTURER'S SHOP DRAWINGS. PARTICULAR ATTENTION SHALL BE DIRECTED TO FIXTURES OR EQUIPMENT FURNISHED UNDER OTHER DIVISIONS.
2.	INVERT ELEVATIONS SHOWN SHALL BE VERIFIED ON THE JOB BEFORE INSTALLING ANY NEW PIPE.
3.	INSTALL TEST-TEES WHEN SANITARY SEWER SYSTEM IS TO BE TESTED IN SECTIONS.
4.	PIPING IS SHOWN IN ITS GENERAL LOCATION (UNLESS DIMENSIONED), EXACT LOCATION SHALL BE DETERMINED BY JOB CONDITIONS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HI WORK WITH THAT OF OTHER TRADES AND ARRANGE PIPING TO CLEAR STRUCTURAL MEMBERS AND DUCTWORK. RISERS FOR FIXTURES, UNLESS OTHERWISE NOTED, SHALL BE CONCEALED IN WALLS OR PIPE CHASES.
5.	MINIMUM SIZE WATER LINE FOR ANY TWO FIXTURES SHALL BE 3/4". REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL FIXTURE RUNOUT SIZES.
6.	INSTALL UNDERGROUND WATER LINE(S) ABOVE SOIL AND WASTE LINE(S). WATER LINE SAME TRENCH WITH SOIL OR WASTE LINE SHALL BE INSTALLED ON AN UNDISTURBED EARTH LEDGE WITH BOTTOM OF WATER LINE 12" (MIN) ABOVE TOP OF SOIL OR WASTE LINE. IPC CODE REQUIREMENTS SHALL GOVERN FINAL INSTALLATION.
7.	INSTALL ALL EXTERIOR WALL HYDRANTS 18" ABOVE FINISH GRADE (A.F.F.) EXCEPT AS NOTED OTHERWISE.
8.	PROVIDE A MINIMUM COVER OF 24" FOR ALL LINES EXCEPT AS NOTED OTHERWISE ON CONTRACT DRAWINGS.
9.	PROVIDE SLEEVES PER IPC REQUIREMENTS FOR PIPE PASSING THRU FLOOR, MASONRY WALLS AND FIRE OR SMOKE PARTITIONS. PACK ANNULAR SPACE BETWEEN PIPE WITH MATERIAL APPROVED IN U.L. BUILDING DIRECTORY OR AS DIRECTED BY IPC OR IBC REQUIREMENTS.
10.	INSTALL INTERIOR HOSE BIBBS 18" ABOVE FINISHED FLOOR (A.F.F.) EXCEPT AS NOTED OTHERWISE. WHERE HOSE BIBBS ARE INSTALLED ADJACENT TO FIXTURES STOPS, INSTALL HOSE BIBBS AT SAME CENTERLINE ELEVATIONS AS FIXTURE STOPS.
11.	REFER TO ARCHITECTURAL FINISH SCHEDULE AND ELEVATIONS FOR DETAILS OF FLOOR WHERE FLOOR DRAINS ARE TO BE INSTALLED.
12.	IT SHALL BE CONTRACTORS RESPONSIBILITY TO COORDINATE THIS INSTALLATION WITH THAT OF OTHER TRADES TO ENSURE COMPLETE INSTALLATION. CONTRACTOR SHALL VERIFY ROUTING OF ALL PIPING AND ADJUST AS NECESSARY TO AVOID CONFLICTS WITH THAT OF OTHER TRADES AND OR STRUCTURAL MEMBERS.

PLUMBING LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
----	VENT	VTR	VENT THRU ROOF
----	WASTE OR SANITARY SEWER	----	BALL VALVE
----	COLD WATER	----	CHECK VALVE
TYP.	TYPICAL	----	SHUTOFF VALVE
U.O.N.	UNLESS OTHERWISE NOTED	PDI "X"	SHOCK ABSORBER
		CO	CLEANOUT
		FD	FLOOR DRAIN

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CMA

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ARCHITECTS & ENGINEERS

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GEORGIA REGISTERED
NO. PE00569
ENGINEER
CARPIS BALMERT
11-14-25

CITY OF AUGUSTA
BOYKIN PARK
RICHMOND COUNTY, GA

No.	Submittal / Revision	App'd By	Date
	100% CD	CAB	01/30/2026
	PERMIT SET	CAB	11/21/2025

PLUMBING SCHEDULE,
NOTES, LEGEND, & DETAILS

Designed By: RFS	Drawn By: RFS	Checked By: CAB
Issue Date: 10/09/2025	Project No: 080083	Scale: AS SHOWN

Drawing No:
P-200

Central File: Update this text with Central file location
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GENERAL STRUCTURAL NOTES:

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER DISCIPLINES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, PENETRATIONS, AND OTHER ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

2. WHERE SECTION IS SHOWN AND DETAILED, OTHER SECTIONS OR SIMILAR CONDITION SHALL BE DETAILED THE SAME OR OPPOSITE HAND, WHETHER SPECIFICALLY NOTED OR NOT.

3. ENGINEER'S APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS. SUCH APPROVAL MAY ALSO BE WITHHELD AT THE SOLE DISCRETION OF THE ENGINEER.

4. THE STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE FOLLOWING:

a. INTERNATIONAL BUILDING CODE, 2021 EDITION (IBC 2021).

b. AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES," 2022 EDITION (ASCE 7-22).

5. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.

6. DESIGN LOADS USED IN THE DESIGN OF THE STRUCTURAL SYSTEMS IN THIS PROJECT ARE AS FOLLOWS:

a. RISK CATEGORY

II

b. DEAD LOAD:
ROOF (INCLUDING FRAMING SELF WT.)

2 psf

c. LIVE LOAD:
ROOF
COLLATERAL
SLAB-ON-GRADE

20 psf
2 psf
100 psf

d. ROOF SNOW LOAD:
GROUND SNOW LOAD, p_g

5.0 psf

e. WIND DESIGN CRITERIA:
EXPOSURE CATEGORY
BASIC WIND SPEED, V
INTERNAL PRESSURE COEFFICIENT, GC_p
INTERIOR WIND LOADING (PARTITIONS)

C
110 mph
 ± 0.18
OPEN STRUCTURE

f. SEISMIC DESIGN CRITERIA:
SPECTRAL RESPONSE ACCELERATION:
 S_s (SHORT PERIOD (0.2 SECOND))
 S_1 (LONG PERIOD (1.0 SECOND))
 S_{DS} (SHORT PERIOD (0.2 SECOND))
 S_{D1} (LONG PERIOD (1.0 SECOND))
SITE CLASS
SEISMIC DESIGN CATEGORY
LATERAL FORCE RESISTING SYSTEM

0.37 g
0.11 g
0.42 g
0.15 g
CLASS D (DEFAULT)
C
STEEL SYSTEM NOT SPECIFICALLY DEISGNE
FOR SEISMIC RESISTANCE

IMPORTANCE FACTOR, I_e
RESPONSE MODIFICATION COEFFICIENT, R
SEISMIC RESPONSE COEFFICIENT, C_D
ANALYSIS PROCEDURE:

1.0
3.0
3.0
EQUIVALENT LATERAL FORCE

7. ALL VERTICAL ELEVATIONS ARE BASED ON THE FINISHED FLOOR ELEVATION = 0'-0"

FOUNDATION

1. FOUNDNATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS PROVIDED IN THE REPORT OF GEOTECHNICAL EXPLORATION SUBMITTED BY CSRA TESTING AND ENGINEERING CO., INC., DATED JULY 3, 2025.

2. THE FOUNDATIONS FOR THE PEMB STRUCTURES HAVE BEEN DESIGNED AS SHALLOW SPREAD FOOTINGS WITH A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1500 psf.

3. IN PREPARATION OF CONSTRUCTIONS OF THE FOUNDATIONS AND GRADE SLABS, ALL TOPSOIL, VEGETATION AND SURFACE AND SURFACE SOILS SHALL BE REMOVED FROM THE CONSTRUCTION SITE. AFTER REMOVAL OF THE TOPSOIL, THE UPPER 1 FT OF SOIL SHALL BE UNDERCUT AND THE NEWLY EXPOSED SURFACE SHALL BE COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY. THE UNDERCUT SOILS CAN BE REPLACED AND RECOMPACTED.

4. AFTER UNDERCUTTING AND DESIFICATION, AND PRIOR TO EXCAVATION OF FOUNDATIONS OR PLACEMENT OF STRUCTURAL FILLS, THE SURFACE SHALL BE PROOFROLLED TO ENSURE STABLE CONDITIONS. AFTER EXCAVATIONS OF FOUNDATIONS, THE FOOTING SUBGRADE SHALL BE COMPACTED USING A JUMP JACK PRIOR TO CONCRETE PLACEMENT.

5. ALL PROOFROLLING OPERATIONS SHALL BE OBSERVED AND DOCUMENTED THE CONSTRUCTION TESTING AGENCY. IF UNSUITABLE CONDITIONS ARE ENCOUNTERED AT THE SUBGRADE LEVEL,, RECOMMENDATIONS FOR DEALING WITH THE CONDITIONS SHOULD BE PROVIDED TO THE OWNER'S REPRESENTATIVE BY THE GEOTECHNICAL ENGINEER. ANY EXCESSIVLEY WET SOILS ENCOUNTERED SHOULD BE ALLOWED TO DRY AND STABILIZE OR TO BE EXCAVATED AND REPLACED WITH PROPERLY COMPACTED FILL.

CAST-IN-PLACE CONCRETE

1. CAST-IN-PLACE CONCRETE FOR THIS PROJECT SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND COMMENTARY" ACI 318-19 AND ACI 318R-19.

2. CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

AREA	WEIGHT	STRENGTH @ 28 DAYS	AIR CONTENT	MAX. W/C RATIO	NOMINAL MAX. AGG. SIZE
FOUNDATIONS	145 pcf	4000 psi	0%	N/A	1"

3. AN INTENTIONALLY ROUGHENED SURFACE MAY BE USED INSTEAD OF A CONTINUOUS SHEAR KEY AT ALL HORIZONTAL CONSTRUCTION JOINTS.

4. ALL EXPOSED CONCRETE EDGES SHALL HAVE 3/4" CHAMFER, WHETHER SPECIFICALLY NOTED OR NOT.

5. ALL ANCHOR RODS SHALL BE BLACK AS NOTED ON DESIGN DRAWINGS.

6. CONCRETE FORM WORK SHALL COMPLY WITH ACI 347, LATEST EDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMWORK.

7. DURING AND IMMEDIATELY AFTER PLACING, CONCRETE SHALL BE THOROUGHLY COMPACTED BY SPADING OR MECHANICAL VIBRATING TO PROVIDE DENSE CONCRETE FREE OF HONEY COMBING.

8. DIRECTLY AFTER FORMS HAVE BEEN REMOVED, ALL EXPOSED TIE WIRES AND STAPLED ENDS SHALL BE REMOVED FROM CONCRETE SURFACES TO BE EXPOSED. CUT TIES FLUSH WITH FINISHED SURFACES FOR ALL OTHER CONCRETE. RUB SMOOTH OR CUT OFF FINS AND ROUGH PLACES. REMOVE ALL LOOSE CONCRETE AND OTHER IRREGULARITIES. PATCH AND FILL VOIDS WITH BONDING AGENT AS REQUIRED.

CONCRETE REINFORCEMENT:

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615 SUPPLEMENT SI, GRADE 60, OF DOMESTIC MANUFACTURER.

2. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. WELDED WIRE REINFORCEMENT SHALL BE SUPPLIED IN FLAT SHEETS ONLY. LAP 9" MINIMUM.

3. REINFORCEMENT SHALL BE FABRICATED TO SHAPES AND DIMENSIONS SHOWN AND SHALL CONFORM TO THE REQUIREMENTS OF CRSI AND ACI 318. REINFORCEMENT SHALL BE COLD BENT UNLESS OTHERWISE AUTHORIZED. BENDING MAY BE ACCOMPLISHED IN THE FIELD OR AT THE MILL. BARS SHALL NOT BE BENT AFTER EMBEDDED IN CONCRETE.

4. REINFORCEMENT SHALL BE FREE FROM LOOSE RUST AND SCALE, DIRT, OIL, OR OTHER DELETERIOUS COATING THAT COULD REDUCE BOND WITH THE CONCRETE.

5. NO SPLICES OF REINFORCEMENT SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED. MAKE BARS CONTINUOUS AROUND CORNERS WITH CORNER BARS. WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS.

3000 PSI CONC	3500 PSI CONC	4000 PSI CONC	4500 PSI CONC
#4 BARS - 37"	#4 BARS - 35"	#4 BARS - 33"	#4 BARS - 31"
#5 BARS - 46"	#5 BARS - 43"	#5 BARS - 41"	#5 BARS - 38"
#6 BARS - 56"	#6 BARS - 52"	#6 BARS - 49"	#6 BARS - 46"
#7 BARS - 81"	#7 BARS - 75"	#7 BARS - 71"	#7 BARS - 67"

7. WHERE HOOKS ARE SHOWN, PROVIDE STANDARD 90° HOOKS IN ACCORDANCE WITH CRSI AND ACI 318, UNLESS NOTED OTHERWISE.

8. WHERE REQUIRED, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING FROM FOUNDATION. DOWELS SHALL HAVE STANDARD 90° HOOKS.

9. MINIMUM CONCRETE REINFORCING COVER REQUIREMENTS:

	CAST-IN-PLACE CONCRETE COVER
a. CONCRETE CAST AGAINST EARTH:	3"
b. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER: WALLS, SLABS: #6 BAR AND LARGER #5 BAR AND SMALLER	2" 1½"
c. FORMED CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: WALLS, SLABS: #11 BAR AND SMALLER	¾"

10. ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES SHALL BE PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.

11. DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL-2004", PUBLICATION SP-66, ACI 318, AND ACI 315, OR LATEST EDITIONS.

12. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AT POSITIONS SHOWN ON PLANS

PRE-ENGINEERED METAL BUILDING SYSTEMS

1. METAL BUILDING SYSTEMS FOR THIS PROJECT SHALL BE DESIGNED IN ACCORDANCE WITH THE METAL BUILDING MANUFACTURERS ASSOCIATION (MBMA) METAL BUILDING SYSTEMS MANUAL - 2018, IBC 2021, AND THE LOADS SHOWN IN GENERAL NOTES SECTION B. WHERE THERE IS A DISCREPANCY IN DESIGN LOAD REQUIREMENTS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PREPARED BY A PROFESSIONAL ENGINEER FOR THE DESIGN OF METAL BUILDING SYSTEMS, INCLUDING DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE.

3. THE METAL BUILDING FOUNDATIONS HAVE BEEN DESIGNED FOR THE MAXIMUM COLUMN REACTIONS PROVIDED ON THE PRELIMINARY PEMB SHOP DRAWINGS.

4. STEEL FRAMING SHALL BE FABRICATED AND ERECTED TO BE ELECTRICALLY CONTINUOUS FOR LIGHTNING PROTECTION.

CONCRETE MASONRY

1. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90, TYPE II, TWO CELL UNITS. AND BE MADE WITH NORMAL WEIGHT AGGREGATE. THE COMPRESSIVE STRENGTH OF MASONRY, f_m , EXPRESSED AS FORCE PER UNIT OF NET CROSS-SECTIONAL AREA, SHALL BE 2000 PSI AT 28 DAYS.

2. REINFORCING STEEL SHALL COMPLY WITH ASTM A 615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE HOOKED.

3. GROUT SHALL COMPLY WITH ASTM C 476, AND SHALL BE PROPORTIONED TO OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.

4. MORTAR SHALL COMPLY WITH ASTM C270, TYPE S. AGGREGATE FOR MORTAR SHALL COMPLY WITH ASTM C 144. AGGREGATE FAILING TO COMPLY WITH ASTM C 144 GRADATION REQUIREMENTS MAY BE USED PROVIDED THE MORTAR CAN BE PREPARED TO COMPLY WITH THE AGGREGATE RATIO, WATER RETENTION, AND COMPRESSIVE STRENGTH REQUIREMENTS OF THE PROPERTY SPECIFICATIONS ASTM C 270.

5. PROVIDE VERTICAL REINFORCING BARS OF THE GIVEN SIZE AND SPACING SHOWN ON THE DRAWINGS. TENSIONS AND COMPRESSION REINFORCEMENT SPLICES IN CONCRETE SHALL BE MADE AS FOLLOWS:

#4 BARS - 28"

#5 BARS - 35"

#6 BARS - 46"

#7 BARS - 63"

6. PROVIDE AT LEAST ONE VERTICAL BAR EACH SIDE OF ALL OPENINGS, CONTROL JOINTS, AND AT CORNERS AND INTERSECTIONS OF ALL MASONRY WALLS, BOTH BEARING AND NONBEARING WALLS.

7. PROVIDE REBAR DOWELS FROM THE FOUNDATION OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING. DOWELS SHALL HAVE STANDARD A.C.I. HOOKS. DOWELS SHALL HAVE A MINIMUM LAP AS SHOWN ON THE DRAWINGS.

8. PROVIDE STANDARD 9 GAUGE HORIZONTAL JOINT REINFORCING IN CMU WALLS AT 16" ON CENTER AND IN TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS, EXTENDING A MINIMUM OF 2'-0" OR 48 BAR DIAMETERS, WHICHEVER IS GREATER, BEYOND THE JAMB ON EACH SIDE OF THE OPENING, EXCEPT AT CONTROL JOINTS.

9. PROVIDE HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCING AS SHOWN IN THE SECTIONS AND DETAILS. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS EXCEPT FOR THE BOND BEAM AT THE TOP OF THE WALL. INTERMEDIATE BOND BEAMS SHALL BE PROVIDED AS SHOWN.

10. PROVIDE 8" BOND BEAM (MINIMUM DEPTH UNLESS NOTED OTHERWISE) AT TOP OF ALL CMU WALLS AND OVER OPENINGS. REINFORCE BOND BEAM WITH (2) #5 BARS. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATIONS OF OPENINGS.

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Sustainable Design
Consultants, LLC

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

CITY OF AUGUSTA
BOYKIN PARK RICHMOND
COUNTY, GA

No.	Submitted / Revision	App'd By	Date
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1	100% CD		01/30/2026
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STRUCTURAL NOTES

Designed By: JSMITH	Drawn By: GJONES	Checked By: JSMITH
Issue Date: 01/30/2026	Project No: SAV103325009	Scale: 12" = 1'-0"

Drawing No:

S-001

