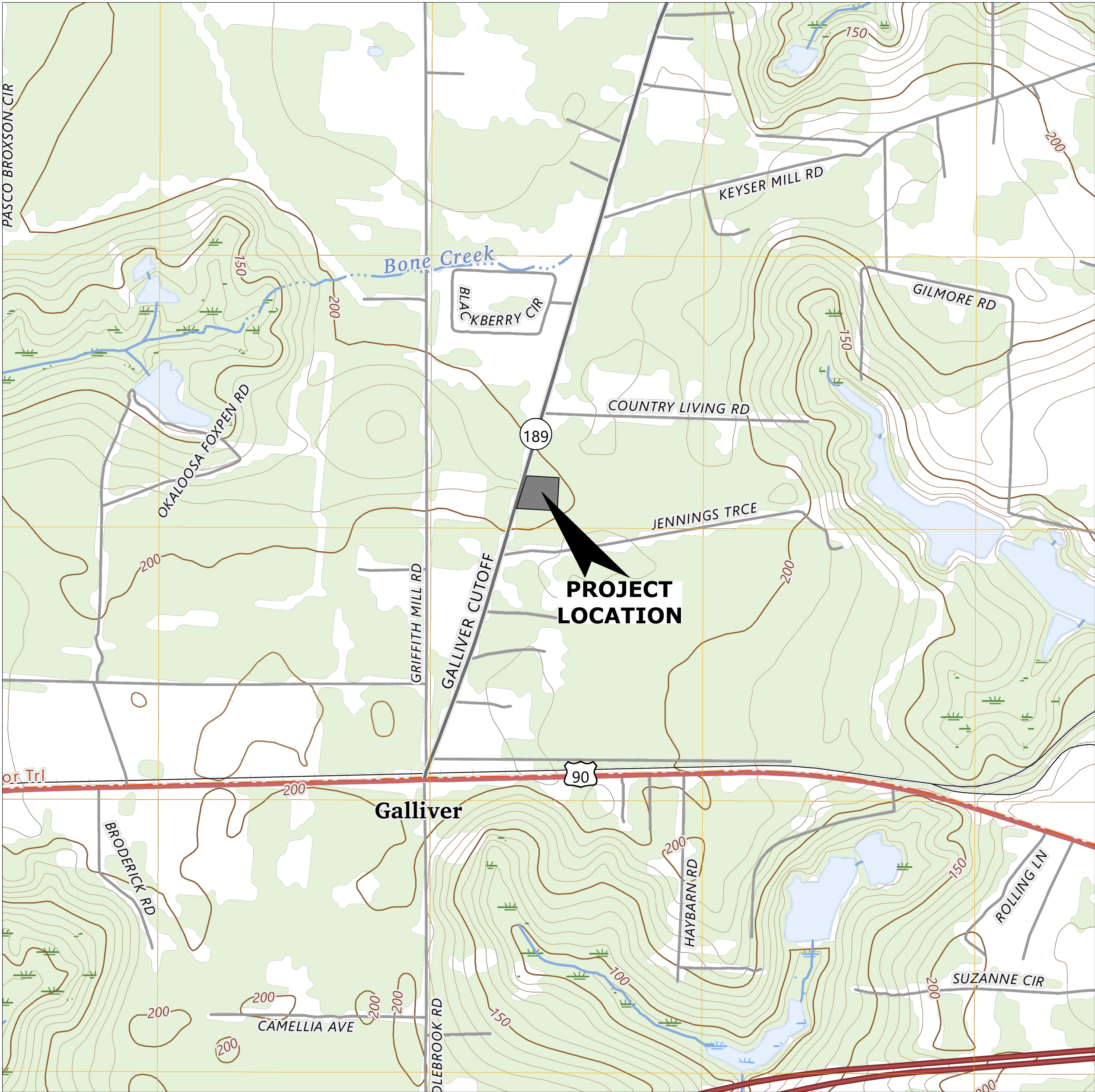
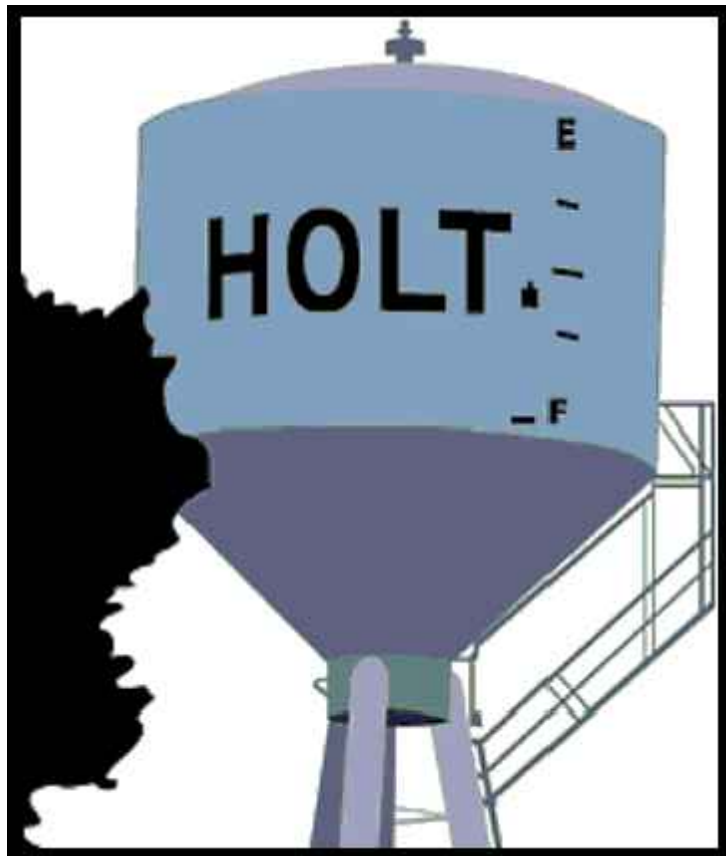


CONSTRUCTION PLANS
FOR
WELL #4 AND ELEVATED TANK #3
FOR
HOLT WATER WORKS, INC



LOCATION MAP
SCALE: 1"= 1000'



ENGINEER:
MUNICIPAL ENGINEERING SERVICES, INC.
8574 TURKEY BLUFF ROAD
NAVARRE, FLORIDA 32566
CONTACT: DALE E. LONG, PE, LEED AP
PHONE: (850) 939-5732
EMAIL: dlong@mesi-fl.com

OWNER/DEVELOPER:
HOLT WATER WORKS, INC.
4618 JOHNSON STREET
HOLT, FL 32564
CONTACT: DONNA ASH

PHONE : (850) 537-4113
EMAIL: holtwater@embarqmail.com

BOARD MEMBERS
MARK CHRISTIANSEN, PRESIDENT
STEPHANIE HOLCOMBE, VICE PRESIDENT

DIRECTORS
MARION ARNETT
CECIL ELMORE
BOE MILLER
CHRIS PALM
THELMA RYAN

SITE INFORMATION

SITE ADDRESS: 4913T GALLIVER CUT-OFF
HOLT, FL. 32564
PARCEL NUMBER: 25-3N-25-0000-0003-005B
PARCEL ZONING: AGRICULTURAL (AA)
FUTURE LAND USE (FLU): AGRICULTURAL (AG)
CURRENT USE: VACANT UTILITIES
PARCEL SIZE: 1.04 ACRES

SHEET INDEX

CIVIL

- C-000 COVER SHEET, SHEET INDEX & LOCATION MAP
- C-001 GENERAL NOTES & LEGEND
- C-002 EROSION & SEDIMENT CONTROL DETAILS & GENERAL NOTES
- C-003 STORMWATER PREVENTION POLLUTION PLAN
- C-101 EXISTING CONDITIONS
- C-102 DEMOLITION AND EROSION CONTROL PLAN
- C-201 SITE PLAN
- C-301 GRADING AND DRAINAGE PLAN
- C-302 POND GEOMETRY AND CROSS SECTION
- C-401 GEOMETRY PLAN
- C-501 LANDSCAPING PLAN
- C-601 MECHANICAL PLAN
- C-602 MECHANICAL ELEVATION AND WELL CONSTRUCTION DETAIL

- △ C-701 DETAILS
- C-702 DETAILS
- C-703 DETAILS
- C-704 DETAILS

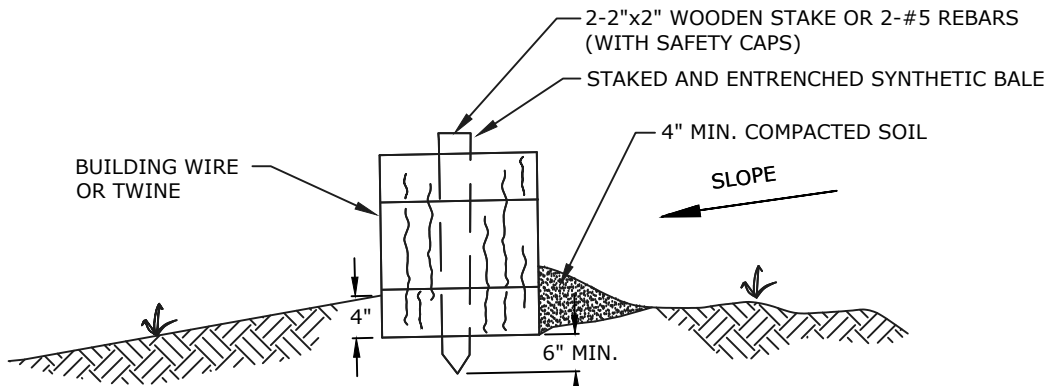
ARCHITECTURAL

- S-101 STRUCTURAL NOTES & DETAILS
- A-101 ARCHITECTURAL PLANS
- A-201 ELEVATIONS
- A-311 WALL SECTIONS
- A-601 SCHEDULES & DETAILS
- A-602 DOOR & WINDOW DETAILS

ELECTRICAL

- E-001 ELECTRICAL GENERAL NOTES
- E-002 ELECTRICAL LEGEND 1
- E-101 ELECTRICAL SINGLE-LINE DIAGRAMS & SCHEDULES
- E-111 ELECTRICAL SITE PLAN
- E-121 WELL BUILDING GROUNDING & LIGHTING PLAN
- E-122 WELL BUILDING EQUIPMENT & INSTRUMENTS PLAN
- E-131 WELL CONTROL BLOCK DIAGRAM & LAYOUT
- E-132 WELL CONTROL SCHEMATICS
- E-901 ELECTRICAL DETAILS 1
- E-902 ELECTRICAL DETAILS 2
- E-903 ELECTRICAL DETAILS 3

R:\MES\2019\190002-001 HWW Misc Water System Impr\dwg\Hot Well #4 and Tank\Sheets\05 C-002 Erosion & Sediment Control Notes & Details.dwg, 6/16/2026 2:34:20 PM

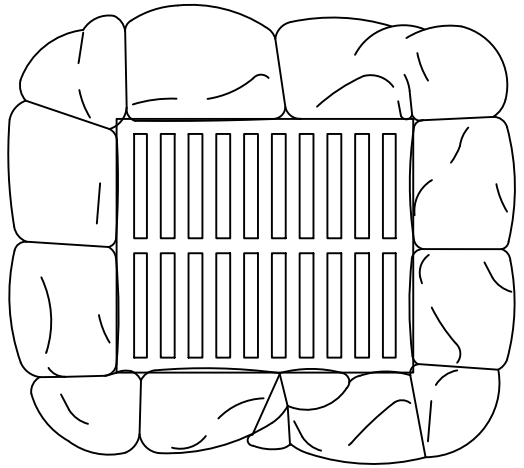


SYNTHETIC BALE BARRIER CONSTRUCTION

BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER. ALL BALES SHALL BE SECURELY ANCHORED BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. CONTRACTOR SHALL WEDGE OR CHINK LOOSE STRAW BETWEEN BALES. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS NEEDED. SYNTHETIC BALE BARRIERS SHALL BE REMOVED AFTER THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED. SYNTHETIC BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.

NATURAL OR SYNTHETIC HAY BALE DETAIL

NOT TO SCALE

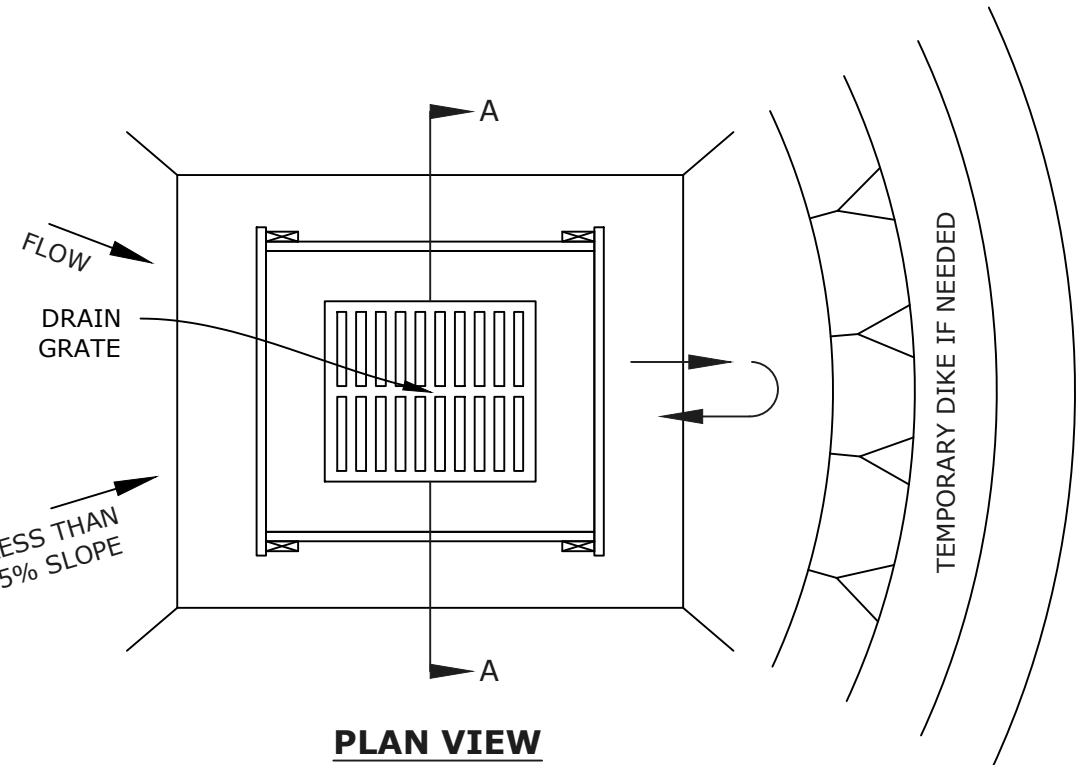


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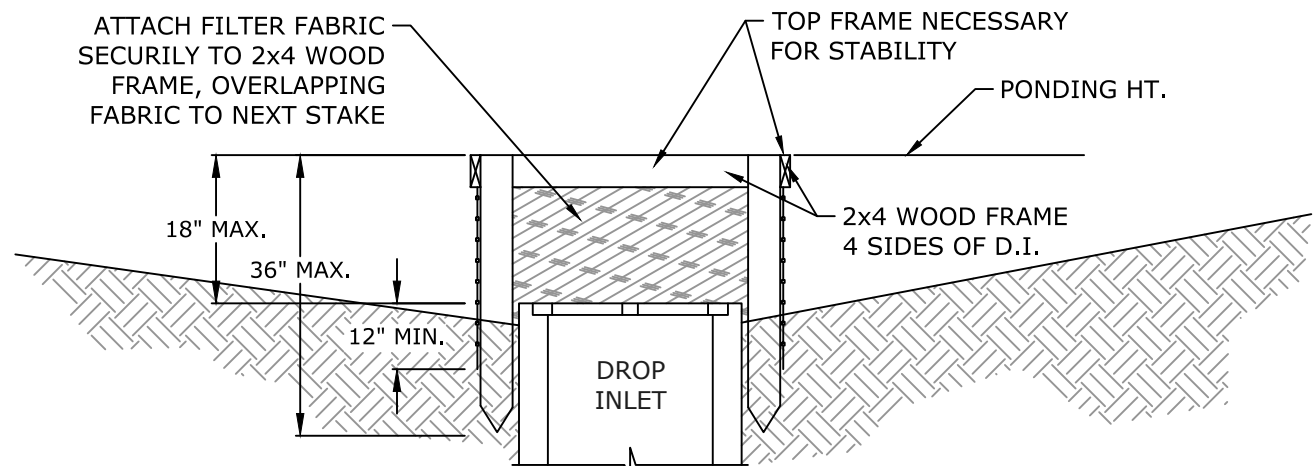
1. THE FILTER SOCK SHOULD BE PLACED AROUND THE ENTIRE CIRCUMFERENCE OF THE DROP INLET AND SHOULD ALLOW FOR AT LEAST 1 FOOT OF OVERLAP ON EITHER SIDE OF THE OPENING BEING PROTECTED. STAKES SHOULD BE USED TO KEEP THE SOCK IN PLACE.
2. UNDER LOW-FLOW CONDITIONS, A 9-INCH OR 12-INCH SOCK DIAMETER SHOULD SUFFICE.
3. SEDIMENT WILL COLLECT AROUND THE OUTSIDE OF THE FILTER SOCK AND SHOULD BE REMOVED WHEN THE SEDIMENT REACHES ONE-HALF OF THE SOCK HEIGHT.
4. FILTER FABRIC SHALL BE PLACED AND MAINTAINED UNDER THE GRATE.

FILTER SOCK DROP INLET FILTER DETAIL

NOT TO SCALE



PLAN VIEW



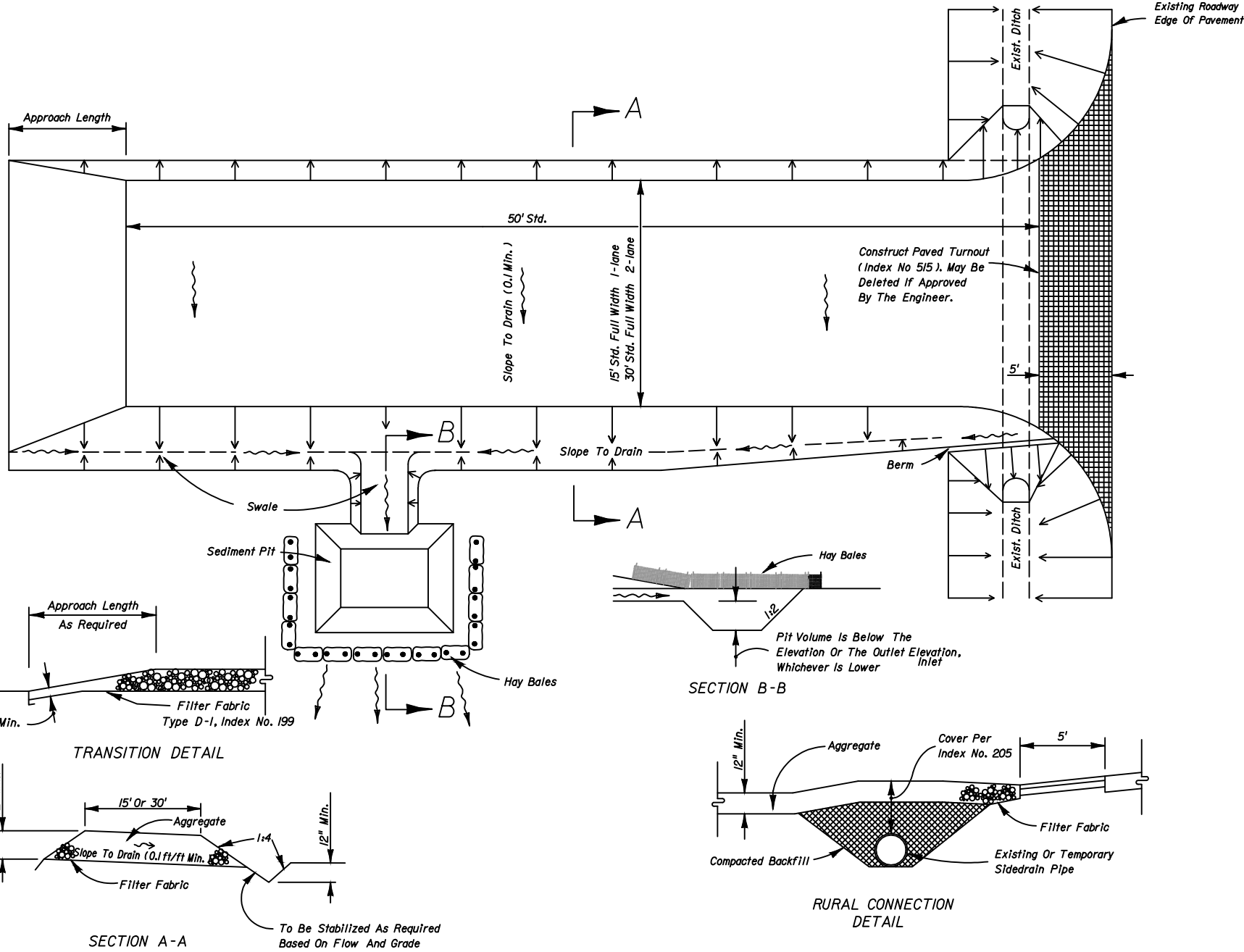
SECTION A-A

NOTES:

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
2. USE 2x4 WOOD OR EQUIVALENT METAL STAKES, (3 FT. MIN. LENGTH)
3. INSTALL 2x4 WOOD TOP FRAME TO INSURE STABILITY.
4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
5. FILTER FABRIC SHALL BE PLACED AND MAINTAINED UNDER THE GRATE.

SILT FENCE DROP INLET SEDIMENT BARRIER DETAIL

NOT TO SCALE

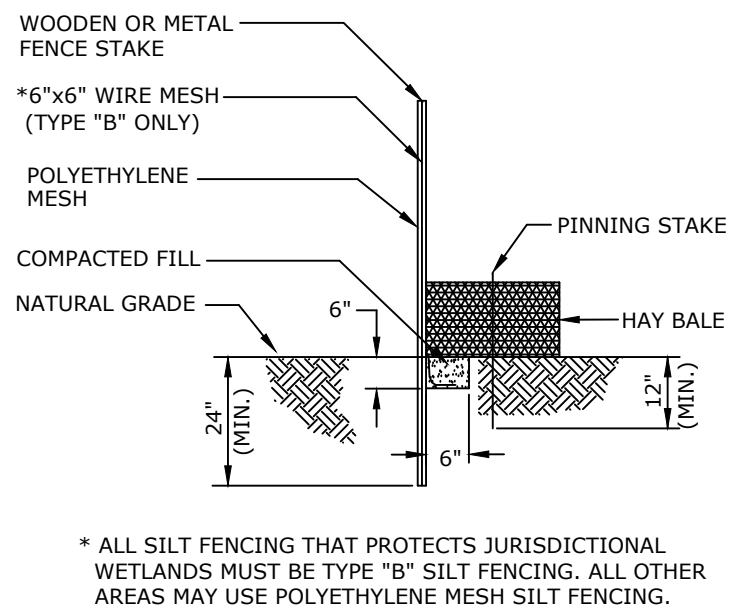


GENERAL NOTES:

1. A SOIL TRACKING PREVENTION DEVICE (STPD) SHALL BE CONSTRUCTED AT APPROPRIATE LOCATIONS FOR POINTS OF EGRESS FROM UNSTABILIZED AREAS OF THE PROJECT TO PUBLIC ROADS WHERE OFFSITE TRACKING OF MUD COULD OCCUR. TRAFFIC FROM UNSTABILIZED AREAS OF THE CONSTRUCTION PROJECT SHALL BE DIRECTED THRU A STPD. BARRIERS, FLAGGING, OR OTHER POSITIVE MEANS SHALL BE USED AS REQUIRED TO LIMIT AND DIRECT VEHICULAR EGRESS ACROSS THE STPD.
2. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO PUBLIC ROADS (INCLUDING THE STPD AGGREGATE AND CONSTRUCTION MUD) SHALL BE REMOVED DAILY, OR MORE FREQUENTLY IF SO DIRECTED BY THE ENGINEER.
3. AGGREGATES SHALL BE AS DESCRIBED IN SECTION 901 OF THE F.D.O.T. STANDARD SPECIFICATIONS EXCLUDING 901-2.3. AGGREGATES SHALL BE F.D.O.T. SIZE #1. IF THIS SIZE IS NOT AVAILABLE, THE NEXT AVAILABLE SMALLER SIZE AGGREGATE MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER. SIZES CONTAINING EXCESSIVE SMALL AGGREGATE WILL TRACK OFF THE PROJECT AND ARE UNSUITABLE.
4. THE SEDIMENT PIT SHOULD PROVIDE A RETENTION VOLUME OF 3600 CUBIC FEET/ACRE OF SURFACE AREA DRAINING TO THE PIT. WHEN THE STPD IS ISOLATED FROM OTHER DRAINAGE AREAS, THE FOLLOWING PIT VOLUMES WILL SATISFY THIS REQUIREMENT:
15'x 50'=100 FT³ 30'x 50'=200 FT³
AS AN OPTION TO THE SEDIMENT PIT, THE WIDTH OF THE SWALE BOTTOM CAN BE INCREASED TO OBTAIN THE VOLUME. WHEN THE SEDIMENT PIT OR SWALE IS USED, HAY BALES OR SILT FENCE SHALL BE PLACED ALONG THE ENTIRE LENGTH.
5. THE SWALE DITCH DRAINING THE STPD SHALL HAVE A 0.2% MINIMUM AND A 1.0% MAXIMUM GRADE ALONG THE STPD AND TO THE SEDIMENT PIT.
6. MITRED END SECTIONS ARE NOT REQUIRED WHEN THE SIDEDRAIN PIPE SATISFIES THE CLEAR ZONE REQUIREMENTS.
7. THE STPD SHALL BE MAINTAINED IN A CONDITION THAT WILL ALLOW IT TO PERFORM ITS FUNCTION. TO PREVENT OFFSITE TRACKING, THE STPD SHALL BE RINSED (DAILY WHEN IN USE) TO MOVE ACCUMULATED MUD DOWNWARD THRU THE STONE. ADDITIONAL STABILIZATION OF THE VEHICULAR ROUTE LEADING TO THE STPD MAY BE REQUIRED TO LIMIT THE MUD TRACKED.
8. THE NOMINAL SIZE OF A STANDARD STPD IS 15'x 50' UNLESS OTHERWISE SHOWN IN THE PLANS. IF THE VOLUME OF ENTERING AND EXITING VEHICLES WARRANT, A 30' WIDTH STPD MAY BE USED IF APPROVED BY THE ENGINEER.

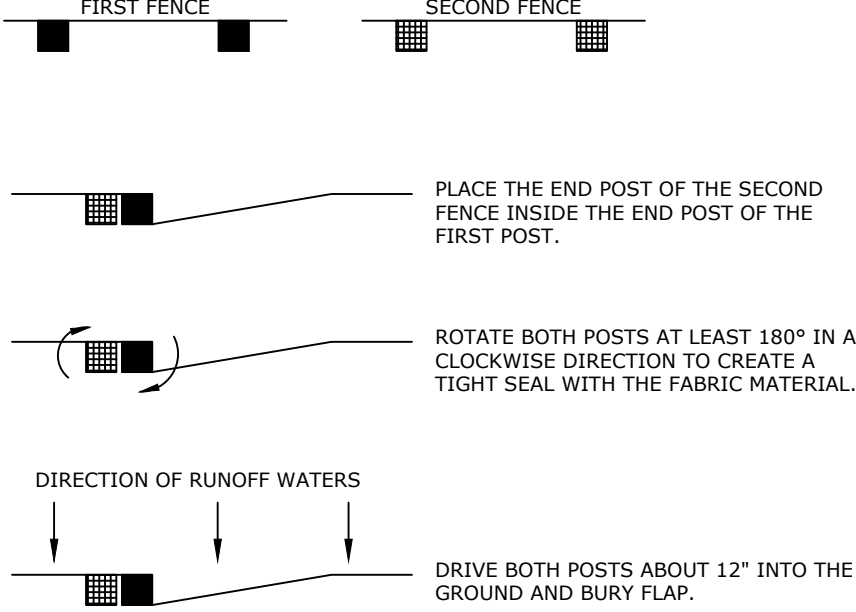
SOIL TRACKING PREVENTION DEVICE (CONSTRUCTION EXIT)

NOT TO SCALE



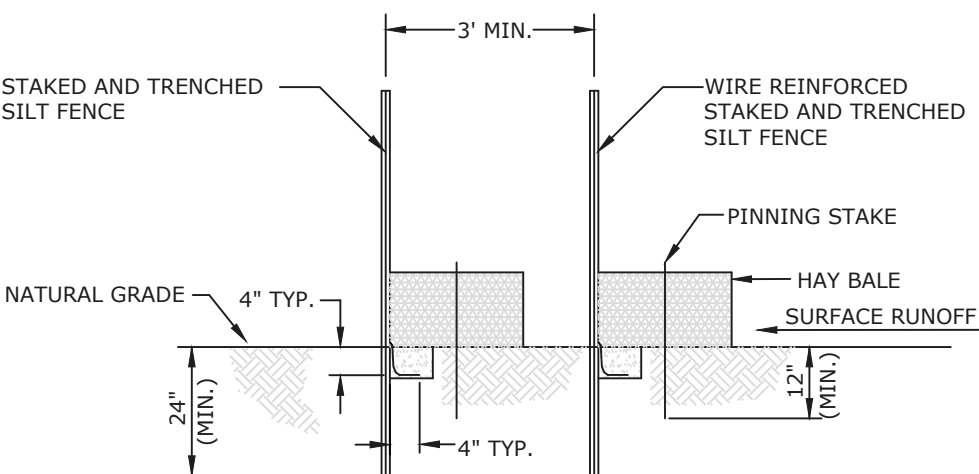
SILT FENCE DETAIL

NOT TO SCALE



BUTTING SILT FENCE DETAIL

NOT TO SCALE



* ALL SILT FENCING THAT PROTECTS JURISDICTIONAL WETLANDS MUST BE TYPE "B" SILT FENCING. ALL OTHER AREAS MUST USE POLYETHYLENE MESH SILT FENCING.

DOUBLE ROW STAKED SILT FENCE DETAIL

NOT TO SCALE

EROSION AND SEDIMENT CONTROL NOTES:

1. FOR ALL PROJECTS WHICH DISTURB MORE THAN ONE ACRE OF AREA, THE CONTRACTOR IS WHOLLY RESPONSIBLE FOR PREPARING, SUBMITTING, AND ACQUIRING THE FDEP/NPDES PERMIT, INCLUDING THE REQUIRED STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT TO FDEP NO LESS THAN 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ENSURING THAT THE PROJECT COMPLIES WITH THE PERMIT CONDITIONS (INCLUDING THE REQUIRED NPDES INSPECTIONS AND DOCUMENTATION) AND APPLICABLE LOCAL, STATE, AND FEDERAL WATER QUALITY STANDARDS DURING CONSTRUCTION. THE CONSTRUCTION DOCUMENTS CONTAIN ONLY THE MINIMUM REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL. ANY AND ALL COSTS ASSOCIATED WITH OBTAINING THE NPDES PERMIT OR COMPLYING WITH THE PERMIT REQUIREMENTS SHALL BE BORNE BY THE CONTRACTOR.
2. WHEN REQUIRED, THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A SWPPP ACCORDING TO EPA/FDEP CRITERIA TO MINIMIZE EROSION AND ENSURE PROPER FUNCTIONING OF THE STORMWATER MANAGEMENT SYSTEM UPON COMPLETION OF CONSTRUCTION. IN ADDITION TO MEETING EPA/FDEP NPDES CRITERIA, THE SWPPP SHALL BE SUBMITTED TO AND COMPLY WITH ANY REQUIREMENTS OF THE LOCAL AGENCY HAVING JURISDICTION. A COPY OF THE APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE KEPT ON SITE AT ALL TIMES FOR REVIEW AS MAY BE REQUIRED.
3. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND ALL REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT.
4. CONTRACTOR SHALL EXECUTE ALL MEASURES AND IMPLEMENT ALL BEST MANAGEMENT PRACTICES NECESSARY TO LIMIT THE TRANSPORTATION OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT. THE EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MUST REMAIN IN SATISFACTORY OPERATION UNTIL THE PROJECT IS FULLY COMPLETED AND ACCEPTED AND UNTIL THE PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED AND CAPABLE OF PROVIDING EROSION AND SILTATION CONTROL. CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE ON TEMPORARY EROSION CONTROL MEASURES AT HIS EXPENSE. CONTRACTOR SHALL CONTINUALLY MONITOR WEATHER AND SITE CONDITIONS AND SHALL PROVIDE CONTINUOUS MONITORING OF EROSION AND SEDIMENT CONTROLS AND SHALL DOCUMENT ALL CORRECTIVE MEASURES.
5. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENTATION RESULTING FROM SURFACE RUNOFF UNTIL COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CAUSE SEDIMENT TO RUN OFF. FILTER FABRIC SHALL BE PLACED AND MAINTAINED UNDER THE GRATE AND FILTER SOCKS SHALL BE PLACED IN FRONT OF THE THROAT OF CURB INLETS DURING CONSTRUCTION AND SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT CONSTRUCTION.
6. ALL DISTURBED AREAS WHICH ARE NOT PAVED SHALL BE SEEDED, FERTILIZED AND MULCHED, HYDROSEEDDED, OR SODDED AS REQUIRED, UNLESS NOTED OTHERWISE. SOD PINS SHALL BE USED FOR ALL SOD PLACED ON SLOPES STEEPER THAN 3:1. AREAS OF ESTABLISHED SOD OR GROUND COVER SHALL BE REPLACED IN KIND TO MATCH THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION COMMENCEMENT.
7. PERMANENT GRASSING SHALL BE INSTALLED AND MAINTAINED ON ALL EXPOSED SLOPES AND DISTURBED AREAS WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION, OR TURBID DISCHARGES. A VEGETATIVE COVER THAT STABILIZES AND PREVENTS EROSION SHALL BE ESTABLISHED WITHIN 60 DAYS OF PERMANENT GRASSING INSTALLATION. UPON ESTABLISHMENT OF A SUBSTANTIAL VEGETATIVE COVER, ALL TURBIDITY BARRIERS AND EROSION CONTROL MEASURES SHALL BE REMOVED.
8. ALL EROSION AND SEDIMENT CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT SET FORTH IN SECTION 62-40.432, OF THE FLORIDA ADMINISTRATIVE CODE, AS WELL AS THE APPLICABLE STORMWATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF FDEP, THE APPLICABLE WATER MANAGEMENT DISTRICT, THE US ENVIRONMENTAL PROTECTION AGENCY AND THE GUIDELINES CONTAINED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (LATEST VERSION).
9. TEMPORARY SEDIMENT CONTROL MEASURES INCLUDE, BUT ARE NOT LIMITED TO: SILT FENCING; CONSTRUCTION OF SEDIMENT CHECK DAMS; CONSTRUCTION EXITS, FLOATING TURBIDITY CURTAINS, FILTER SOCKS; SEEDING AND MULCHING, ETC. PERMANENT SEDIMENT CONTROL MEASURES INCLUDE BUT ARE NOT LIMITED TO: PERMANENT GRASSING; EROSION BLANKETS; RIP RAP, ETC. MINIMUM STABILIZATION MEASURES ARE DETAILED ON THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL INCLUDE ANY AND ALL MEASURES NECESSARY TO STABILIZE THE SITE, CONTROL EROSION, AND PREVENT SEDIMENT FROM ESCAPING THE SITE. THE CONTROL OF EROSION ON THE SITE COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
10. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION. TEMPORARY STABILIZATION MEASURES SHALL BE IN PLACE IMMEDIATELY FOLLOWING CLEARING, BACKFILLING AND/OR GRADING OPERATIONS.
11. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
12. CLEANUP WILL BE DONE IN A MANNER TO INSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.
13. THE PROJECT WILL BE CONTINUALLY INSPECTED FOR SOIL EROSION AND SEDIMENT CONTROL COMPLIANCE. DEFICIENCIES WILL BE CORRECTED BY THE CONTRACTOR WITHIN 24 HOURS.
14. TEMPORARY EROSION CONTROL MEASURES SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR UPON ESTABLISHMENT OF PERMANENT CONTROL MEASURES OR WHEN DIRECTED BY THE OWNER.
15. THE CONTRACTOR SHALL RESTORE ALL DISTURBED RIGHTS-OF-WAY IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, OR THE REQUIREMENTS OF THE LOCAL AGENCY HAVING JURISDICTION (AHJ).
16. THE CONTRACTOR SHALL COMPLETE SITE RESTORATION AS THE PROJECT PROGRESSES.
17. THE CONTRACTOR SHALL INSTALL PRIOR TO THE START OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENTS ON SITE. IMPROPER SEDIMENT CONTROL MEASURES MAY RESULT IN A CODE ENFORCEMENT VIOLATION.
18. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING TRACKING OF SOIL FROM THE SITE ONTO ADJACENT ROADWAYS. IN ADDITION TO THE INSTALLATION OF A CONSTRUCTION EXIT THE CONTRACTOR WILL BE RESPONSIBLE FOR SWEEPING ROADWAYS AS REQUIRED.
19. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY IN SURROUNDING WATERS INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING BODY OF WATER EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS AND ANY ACCUMULATED SILT AT THE COMPLETION OF CONSTRUCTION AND PERMANENT STABILIZATION. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS OF THE FLORIDA ADMINISTRATIVE CODE.
20. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF DUST AND OTHER AIRBORNE POLLUTANTS DURING CONSTRUCTION. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AT THE CONTRACTOR'S DISCRETION.

EROSION & SEDIMENT CONTROL DETAILS & GENERAL NOTES

NOT Released for Construction by _____ Date _____
As-Built "Record Drawing" by _____ Date _____

WELL #4 AND ELEVATED TANK #3 FOR HOLT WATER WORKS, INC

FLORIDA

OKALOOSA COUNTY

REVISION	
Date: E. Long, P.E.	
P.E. #53393	
SCALE: AS NOTED	
DATE: FEBRUARY 2025	
JOB NUMBER: 190002-01	FILENAME: SEE LEFT
DRAWN BY: ENO	DESIGNED BY: DEL
SHEET:	

C-002

R:\MES\2019\190002-001 HWW Misc Water System Impr\dwg\Holt Well #4 and Tank\Sheets\05 C-002 Erosion & Sediment Control Notes & Details.dwg, 6/18/2026 4:01:10 PM

Holt Well No. 4
POLLUTION PREVENTION PLAN

This document is a summary of the complete pollution prevention plan indicated on and an integral part of the construction plans, specifications, and contract documents. Detailed requirements are indicated on the construction plans for Well No. 4.

SITE DESCRIPTION

Project Name: Well No. 4

Owner Name: Holt Water Works, Inc.

Location: Latitude 30°44'03.79"N Longitude 86°42'13.72"W

Owner Address: PO Box 308 Holt, FL

Project Address: 4913T Galliver Cutoff, Pensacola, FL 32531

Project Contact: Dale E. Long

Description: The proposed project includes the construction of a potable water well and wellhouse on an existing undeveloped site. The work will include clearing the site as required to construct the well and wellhouse, constructing a new driveway connection to Galliver Cutoff, and providing stormwater and parking infrastructure as required to support the new construction.

Runoff Coefficient: 0.47

Total Site Area: 1.01 acres **Total Area Disturbed:** 1.01 acres

Existing Soil Data: See Geotechnical Report.

Receiving MS4: Okaloosa County

Lat/Long of Discharge Points:

Discharge Point Ref.	Latitude	Longitude	Contributing D.A. (AC)
Stormwater Pond	30°44'02.74"N	86°42'13.54"W	6.95

Page 1 of 6

SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES

- Contractor will mobilize and install silt fence, construction entrance at driveway location, and other erosion & sediment control measures, as needed, in each area where work is being performed.
- Site clearing will be completed
- A new stormwater pond will be constructed to serve as sediment pond.
- New well, wellhouse and supporting infrastructure will be constructed.
- Stormwater pond and drainage infrastructure will be completed.
- Site fencing and landscaping will be installed.

Upon completion of all soil disturbing activities and following the establishment of grassing and permanent erosion controls in each area, all temporary erosion control measures will be removed.

TIMING OF EROSION AND SEDIMENT CONTROL MEASURES

The silt fencing, construction exit, and other temporary sediment control measures implemented will be installed prior to clearing of any portions of the site in which work is being performed. Areas where construction activities are completed, or temporarily cease for more than 21 days, will be stabilized with temporary seed and mulch within 14 days of the last disturbance. After the entire site is stabilized, any accumulated sediment will be removed, as necessary.

Page 2 of 6

EROSION AND SEDIMENT CONTROLS

All controls shall be consistent with performance standards for erosion and sediment control and stormwater treatment set forth in section 62-40.432, Florida Administrative Code, the applicable Stormwater or Environmental Resource Permitting requirements of FDEP and/or the Water Management District, The US Environmental Protection Agency, and the guidelines contained in the Florida Erosion and Sediment Control designer and Reviewer Manual (Latest Edition).

Stabilization Practices

Temporary sediment control measures may include, but are not limited to silt fencing, hay bale barriers, construction entrances, sediment check dams, inlet protection and temporary seeding. Permanent sediment control measures include but are not limited to seeding and mulching, hydroseeding, or sodding areas disturbed by the proposed construction activity. While some stabilization practices are detailed on the construction plans, the Contractor shall include any and all measures necessary to prevent sediment from escaping the site and to comply with all applicable FDEP standards.

Structural Practices

Stormwater runoff shall be directed to newly constructed stormwater conveyance systems and best management practices shall be implemented as needed to ensure that no sediment escapes the site.

Stormwater Management

Stormwater runoff will be directed towards the dry retention system (pond) via overland flow and stormwater piping. The pond is designed to percolate into the natural underlying/adjacent soils and overflow towards the Galliver Cutoff right-of-way. The pond has been designed to be shallow to maintain sufficient separation between the pond bottom and the confining layer. The pond has been designed to be large and shallow to maximize the existing soil capacity.

Other Control Measures

Waste Materials: All waste materials will be collected and stored in secured metal dumpsters to be provided by a solid waste management company licensed in Okaloosa County. The dumpsters will meet all County and State of Florida solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpsters. Dumpsters will be emptied as required to prevent overflow. No construction waste materials will be buried or burned onsite. All personnel will be instructed regarding the correct procedure for waste disposal. Notices stating these practices will be posted in the construction office trailer, job board or at another easily accessible location.

Hazardous Waste: All hazardous waste materials will be disposed of as specified by EPA, Okaloosa County, State of Florida regulations, or by the manufacturer. The Contractor will be responsible for ensuring that these practices are followed and that site personnel receive the needed instruction and training.

Offsite Vehicle Tracking: The paved streets adjacent to the site will be swept as required to remove any excess mud, dirt, or rock tracked from the site. Dump trucks hauling material from or to the construction site will be covered with a tarpaulin.

Page 3 of 6

MAINTENANCE AND INSPECTION PROCEDURES

- All control measures will be inspected at least once each week, at least 24 hours following any rainfall event, and within 8 hours following any storm event of 0.5 inches or greater.
- All measures will be maintained in good working order; if repair is necessary, it will be initiated within 24 hours of being reported.
- Built up sediment will be removed from silt fence when it has reached one third the height of the fence.
- Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- Earthen swales and berms will be inspected, and any damage or breaches will be promptly repaired.
- Temporary and permanent seeding will be inspected for bare spots, washouts, and healthy growth.
- A maintenance inspection report will be made after each inspection.
- The site superintendent will select individuals who will be responsible for inspections, maintenance, and repair activities, and filling out maintenance inspection reports.
- Personnel selected for inspection and maintenance responsibilities will be qualified accordingly and will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.
- All non-stormwater discharges from sources such as flushing, pavement or vehicle washdown, dewatering, or any other source will be directed to a temporary sediment basin prior to discharge.

INVENTORY FOR POLLUTION PROTECTION PLAN

The materials or substances below are expected to be onsite during construction.

- | | |
|-----------------------------|--|
| ■ PVC Pipe | ■ Petroleum based products |
| ■ Sand & Topsoil | ■ DI Pipe, Valves and Fittings |
| ■ Cleaning solvents | ■ Gravel |
| ■ Limerock/Graded Aggregate | ■ Wood |
| ■ Silt Fencing | ■ Sand Clay Backfill Material |
| ■ Haybales and Hay Mulch | ■ HDPE, Metal, PVC, or Concrete Storm Pipe |
| ■ Sodding and Grassing | ■ Concrete |
| ■ Asphalt | ■ Applicable Building Products |

Page 4 of 6

MATERIAL MANAGEMENT AND SPILL CONTROL PRACTICES

The following are spill control practices which will be used to properly cleanup and reduce the risk of spills or other accidental exposure of materials or substances to stormwater runoff.

- An effort will be made to store only enough product and material onsite as required to do the job.
- All materials stored onsite will be stored in a neat and orderly manner in their appropriate containers, and if possible, under a roof or within an enclosure.
- Products will be kept in their original containers with the original manufacturer's label.
- Substances will not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, all of a product will be used before disposing of a container.
- Manufacturer's recommendations for proper use and disposal will be followed.
- The site superintendent will inspect the job daily to ensure proper use and disposal of materials.
- Original labels and material safety data will be retained for all hazardous products.
- If surplus hazardous products must be disposed of, manufacturer's or local and state recommended methods for proper disposal will be followed.
- All paint containers will be tightly sealed and stored when not in use.
- Excess paint will be disposed of per the manufacturer's recommendations and applicable regulations.
- All onsite vehicles will be monitored for leaks and receive regular preventative maintenance.
- Petroleum products will be stored in tightly sealed clearly labeled containers.
- Any asphalt substances used onsite will be applied according to the manufacturer's recommendations.
- Fertilizers will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. The contents of any partially used bags of fertilizer shall be transferred to a sealable container.
- Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash except in designated temporary areas bermed or otherwise protected from runoff.
- Manufacturer's recommended methods for spill cleanup will be clearly posted, and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and materials will include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, cat litter, sand, sawdust, and plastic and metal containers specifically for this use.
- Any spills will be cleaned up immediately after discovery.
- Any spill areas will be kept well ventilated, and personnel will wear appropriate protective clothing & gear.
- All spills of toxic or hazardous substances will be reported to the appropriate state and/or local authority.
- The spill prevention plan will be adjusted to prevent reoccurrence of spills or contamination.
- The site superintendent responsible for the day-to-day site operations, will be the spill prevention and cleanup coordinator. He will designate at least three other site personnel who will receive spill prevention and cleanup training.
- Notice of any spill will be made promptly in accordance with any local, state, or federal requirements.

Page 5 of 6

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

The Stormwater Pollution Prevention Plan reflects Florida Department of Environmental Protection Agency requirements for storm water management and erosion and sediment control. To ensure compliance, this plan was prepared according to the manual "Storm Water Management for Construction Activities" - publication number EPA 832-R-92-005 as published by the US Environmental Protection Agency.

POLLUTION PREVENTION PLAN CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction, or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed: _____

By: _____

Date: _____

CONTRACTORS CERTIFICATION

"I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder."

Signature	For	Responsible For

Page 6 of 6



STORMWATER PREVENTION
POLLUTION PLAN

As-Built "Record Drawing" by _____ Date _____

NOT Released for Construction by _____ Date _____

WELL #4 AND ELEVATED TANK #3
FOR
HOLT WATER WORKS, INC

FLORIDA

OKALOOSA COUNTY

REVISION	

Dale E. Long, P.E.

P.E. #55393

SCALE: AS NOTED

DATE: FEBRUARY 2025

JOB NUMBER:

190002-01

DRAWN BY:

END

DESIGNED BY:

DEL

SHEET:

C-003

NOT Released for Construction
by _____ Date _____

OKALOOSA COUNTY
FLORIDA

REVISION	

P.E. #55393

DATE: FEBRUARY 2025

JOB NUMBER
100003 04

JOB NUMBER
100003 04

130002-01

130002-01

DRAWN BY:
END

DRAWN BY:
END

SHEET:

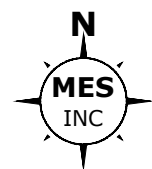
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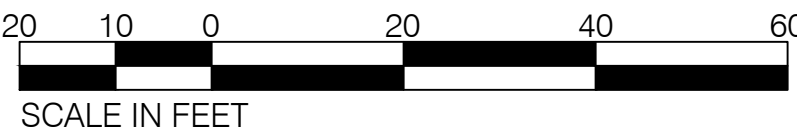
COMMENCING AT AN UN-NUMBERED CONCRETE MONUMENT MARKING THE NORTHEAST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 25, TOWNSHIP 3 NORTH, RANGE 25 WEST, OKALOOSA COUNTY, FLORIDA, PROCEED NORTH 0° 0' 00" WEST ALONG THE NORTH LINE OF SAID QUARTER SECTION FOR A DISTANCE OF 200.00 FEET; THENCE DEPARTING RIGHT OF WAY LINE TO BEGINNING; THENCE CONTINUE NORTH 90° 00' 00" WEST ALONG SAID NORTH LINE A DISTANCE OF 195.00 FEET TO AN EXISTING IRON ROD, LB#6112, MARKING THE EASTELY RIGHT OF WAY LINE OF GALLIVER CUT-OFF (66 FOOT ROAD R/W); THENCE SOUTH 14° 26' 45" WEST ALONG SAID RIGHT OF WAY LINE A DISTANCE OF 206.53 FEET; THENCE DEPARTING RIGHT OF WAY LINE PROCEED NORTH 90° 00' 00" WEST ALONG SAID NORTH LINE A DISTANCE OF 200.00 FEET; THENCE NORTH 0° 0' 00" EAST A DISTANCE OF 200.00 FEET TO THE POINT OF BEGINNING.

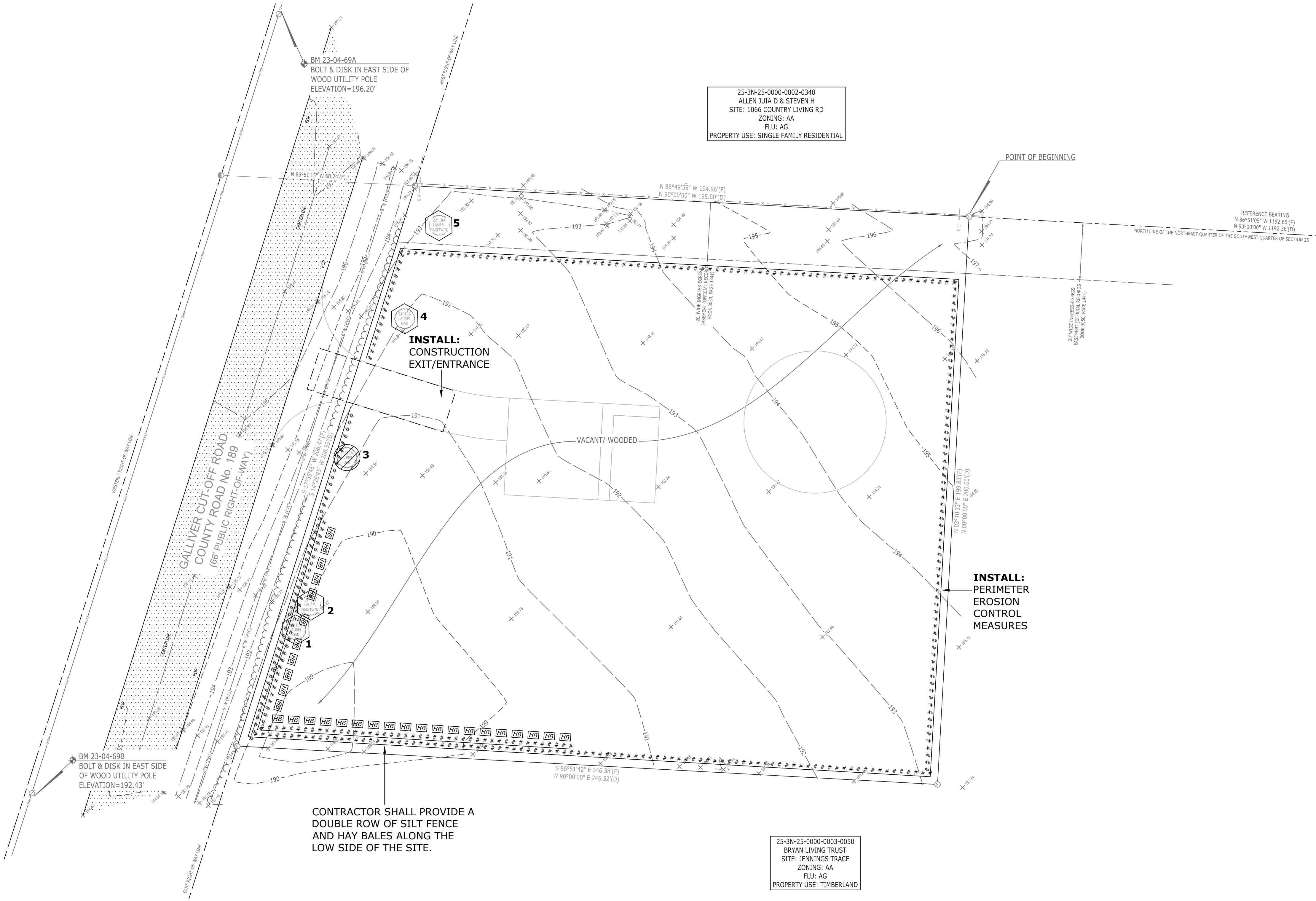
SURVEY NOTES:

1. NORTH AND THE SURVEY DATUM SHOWN HEREON IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM (FLORIDA NORTH ZONE), NORTH AMERICAN DATUM OF 1983 (NAD83)-(2011)-(EPOCH 2010.0000) HAVING A BEARING OF NORTH 86 DEGREES 51 MINUTES 05 SECONDS WEST ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 25, TOWNSHIP 3 NORTH, RANGE 25 WEST, OKALOOSA COUNTY, FLORIDA; AND WERE DERIVED UTILIZING A GLOBAL POSITIONING SYSTEM (GPS) TOPCON HIPER V GEODETIC DUAL FREQUENCY RECEIVER. THE RECEIVER WAS UTILIZED IN A REAL-TIME KINEMATIC (RTK) MODE UTILIZING THE FLORIDA DEPARTMENT OF TRANSPORTATION FLORIDA PERMANENT REFERENCE NETWORK (FPRN), FLORIDA'S GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) REFERENCE STATION NETWORK; COPY OF PREVIOUS SURVEY OF THE SUBJECT PROPERTY, PREPARED BY ROBERT F. JOHNSON, DATED 10/31/2014; DEEDS OF RECORD AND EXISTING FIELD MONUMENTATION.
2. NO TITLE SEARCH, TITLE OPINION OR ABSTRACT WAS PERFORMED BY NOR PROVIDED TO THIS FIRM FOR THE SUBJECT PROPERTY. THERE MAY BE DEEDS OF RECORD, UNRECORDED DEEDS, EASEMENTS, RIGHTS-OF-WAY, BUILDING SETBACKS, RESTRICTIVE COVENANTS OR OTHER INSTRUMENTS WHICH COULD AFFECT THE BOUNDARIES OR USE OF THE SUBJECT PROPERTY.
3. ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVDS88, ELLIPSOID GRS1980) AND WERE DERIVED UTILIZING A GLOBAL POSITIONING SYSTEM (GPS) TOPCON HIPER V GEODETIC DUAL FREQUENCY RECEIVER AND PROCESSED THROUGH OPUS(ONLINE POSITIONING USERS SERVICE) TO OBTAIN NATIONAL SPATIAL REFERENCE SYSTEM (NRSRS) POSITION. THE RECEIVER WAS USED IN STATIC MODE UTILIZING THE FLORIDA DEPARTMENT OF TRANSPORTATION FLORIDA PERMANENT REFERENCE NETWORK (FPRN), FLORIDA'S GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) REFERENCE STATION NETWORK.
4. IT IS THE OPINION OF THE UNDERSIGNED SURVEYOR & MAPPER THAT THE PARCEL OF LAND SHOWN HEREON IS IN ZONE 'X', AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR OKALOOSA COUNTY, FLORIDA, COMMUNITY PANEL NUMBER 121091C02501, EFFECTIVE DATE OF MARCH 09, 2021.
5. GRAPHIC SYMBOLISM FOR FEATURES SUCH AS MONUMENTATION, FENCES, TREES, TREE LINES, UTILITIES ETCETERA MAY BE EXAGGERATED IN SIZE FOR CLARITY PURPOSES. DIMENSIONS TO EXAGGERATED FEATURES WILL SUPERSEDE SCALED MEASUREMENTS.
6. MEASUREMENTS WERE MADE IN ACCORDANCE WITH THE UNITED STATES STANDARD FOOT.
7. THIS SURVEY DOES NOT REPRESENT NOR GUARANTEE OWNERSHIP.
8. VISIBLE ENCROACHMENTS ARE AS SHOWN HEREON.
9. VISIBLE IMPROVEMENTS ARE AS SHOWN HEREON.
10. VISIBLE UTILITIES ARE AS SHOWN HEREON.



GRAPHIC SCALE:





TREE CHART

TREE NO.	COMMON NAME	DIAMETER AT DBH (Inches)	TO BE REMOVED	TREES REMOVED	TREE CREDITS
1	OAK	14	NO	0	0
2	OAK	19	NO	0	0
3	OAK	13	YES	1	0
4	OAK	24	NO	0	0
5	OAK	22	NO	0	0

OKALOOSA COUNTY LDC 6.05.032 REQUIRES THAT TREE MITIGATION EQUALS 1:1 TREE MITIGATION FOR EACH PROTECTED TREE REMOVED.

TOTAL TREES REMOVED =	1	TREES REQUIRED TO BE REPLACED
IMPERVIOUS AREA PROPOSED =	5,468	SF
NO. TREES REQUIRED TO BE PRESERVED (PER LDC 6.05.03) =	1	1 TREE PER 4300 SF IMPERVIOUS
ON-SITE TREE CREDITS =	0	PER LDC 6.05.031
TREE CREDITS REMAINING =	0	

DEMOLITION AND CLEARING NOTES:

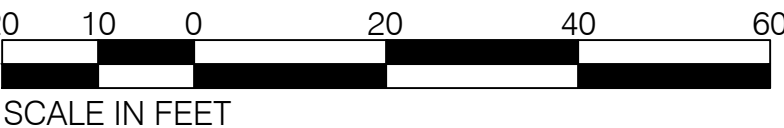
- NO PROTECTED TREES WILL BE REMOVED AS PART OF THIS PROJECT.
- TREES SLATED FOR PROTECTION SHALL BE MARKED AND TREE PROTECTION BARRICADES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY LAND DISTURBING ACTIVITIES. NO PROTECTED TREES SHALL BE REMOVED, DESTRUCTIVELY DAMAGED, MUTILATED, RELOCATED, DISFIGURED, DESTROYED, CUT DOWN OR EXCESSIVELY PRUNED DURING CONSTRUCTION ACTIVITIES.
- NO GRADING OR CLEARING BY, OR STORAGE OF HEAVY EQUIPMENT SHALL OCCUR WITHIN THE DRIP LINE OF PROTECTED TREES OR WITHIN ENVIRONMENTALLY SENSITIVE AREAS.
- TREE PROTECTION BARRICADES OR EQUIVALENT PROTECTIVE MEASURES WILL BE CONSTRUCTED ACCORDING TO THE LOCAL JURISDICTION'S CRITERIA FOR TREES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION.
- ALL TREE PROTECTION MEASURES AND BARRICADES SHALL BE INSTALLED AROUND EACH PROTECTED TREE SHOWN TO REMAIN ON SITE AND PRIOR TO ANY SITE DISTURBANCE. TREE PROTECTION MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL PROJECT IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR SHALL BE EXTREMELY CAUTIOUS WHEN WORKING NEAR TREES THAT ARE TO BE SAVED, WHETHER SHOWN ON THE PLANS OR DESIGNATED IN THE FIELD
- ALL PRACTICAL AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL.
- IN AREAS REQUIRING FILL MATERIAL, THE CONTRACTOR SHALL STRIP OR OTHERWISE REMOVE ALL VEGETATION SUCH AS BRUSH, HEAVY SOD, HEAVY GROWTH OF GRASS, DECAYED VEGETATION MATTER, RUBBISH AND ANY OTHER DELETERIOUS MATERIAL BEFORE EMBANKMENT IS PLACED. IMMEDIATELY PRIOR TO THE PLACING OF FILL MATERIAL, THE ENTIRE AREA UPON WHICH FILL IS TO BE PLACED, SHALL BE SCARIFIED IN A DIRECTION APPROXIMATELY PARALLEL TO THE AXIS OF FILL.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CLEARLY DESIGNATE THE LIMITS OF CONSTRUCTION ON-SITE. THE CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE THE LIMITS OF CONSTRUCTION. IN AREAS WHERE NO WORK IS PROPOSED THE CONTRACTOR SHALL PROTECT THE TOPOGRAPHY, THE SOIL, AND THE VEGETATION.
- WHERE DEMOLITION REQUIREMENTS LEAVE OPEN TRENCHES, PITS OR OTHER VOIDS, PROVIDE CLEAN FILL AND COMPACTION PER THE SPECIFICATIONS, THE GEOTECHNICAL REPORT OR OTHER REQUIREMENTS.
- REMOVAL OF EXISTING PAVED SURFACES INCLUDES REMOVAL OF EXISTING BASE OR SOIL MATERIALS SUFFICIENTLY TO CONSTRUCT THE NEW SURFACE IN ACCORDANCE WITH THE CONSTRUCTION PLANS.
- ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- ALL ASPHALT AND CONCRETE SHALL BE SAW CUT AT EDGES TO REMAIN. REMAINING EDGES SHALL BE PROTECTED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS WHILE REMOVING OR REPAIRING ANY EXISTING STORM DRAINS OR SWALES.
- CONTRACTOR SHALL ROUGH IN STORMWATER POND(S) IMMEDIATELY FOLLOWING CLEARING AND PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.
- EXCAVATED MATERIALS (SPOILS) SHALL BE DISPOSED OF AS REQUIRED IN UPLAND AREAS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS. IF SPOILS ARE TO BE STORED ON SITE EITHER TEMPORARILY OR PERMANENTLY, THE STORAGE LOCATION SHALL BE AN UPLAND AREA APPROVED BY THE OWNER AND ENGINEER. THE SPOILS SHALL BE PREVENTED FROM ERODING WITH THE USE OF SILT FENCING AND GRASSING AS APPROPRIATE.

NOTES:

- CONTRACTOR SHALL CLEAR THE SITE AS NEEDED TO CONSTRUCT THE PROPOSED IMPROVEMENTS. NO WORK SHALL OCCUR WITHIN THE EXISTING 20' EASEMENT ALONG THE NORTH PROPERTY LINE.
- TEST WELL LOCATION SHALL GENERALLY BE LOCATED IN THE CENTER OF THE PARCEL AS SHOWN. THE CONTRACTOR CAN ADJUST THE LOCATION AS SITE CONDITIONS DICTATE. COORDINATE WITH ENGINEER FOR EXACT LOCATION.
- CONTRACTOR SHALL MANAGE THE WATER PUMPED ON SITE DURING THE 24-HOUR WELL TEST VIA PERCOLATION INTO THE GROUND AND BERMING AS REQUIRED.



GRAPHIC SCALE:



DEMOLITION AND
EROSION CONTROL PLAN

WELL #4 AND ELEVATED TANK #3
FOR
HOLT WATER WORKS, INC

FLORIDA

OKALOOSA COUNTY

REVISION		

Dale E. Long, P.E.

P.E. #55393

SCALE: AS NOTED

DATE: FEBRUARY 2025

JOB NUMBER:

190002-01

DRAWN BY:

END

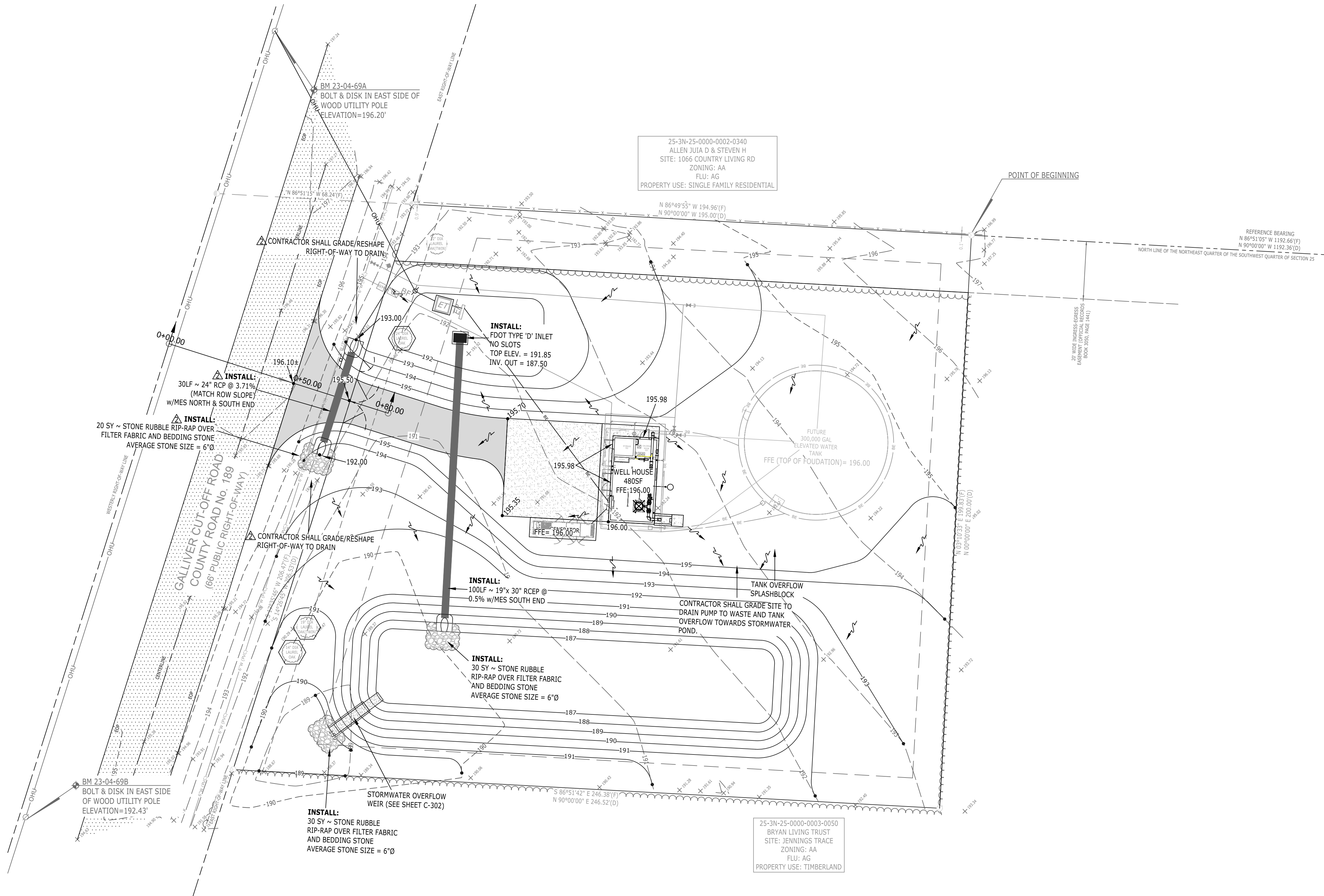
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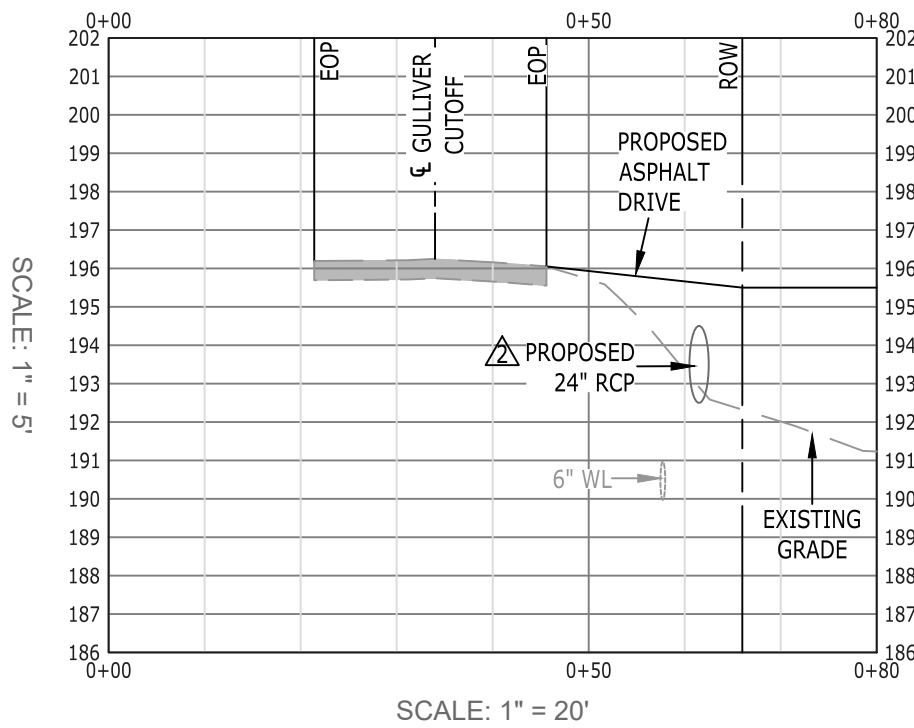
DESIGNED BY:

DEL

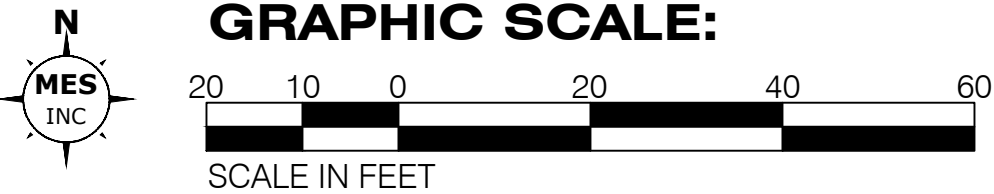


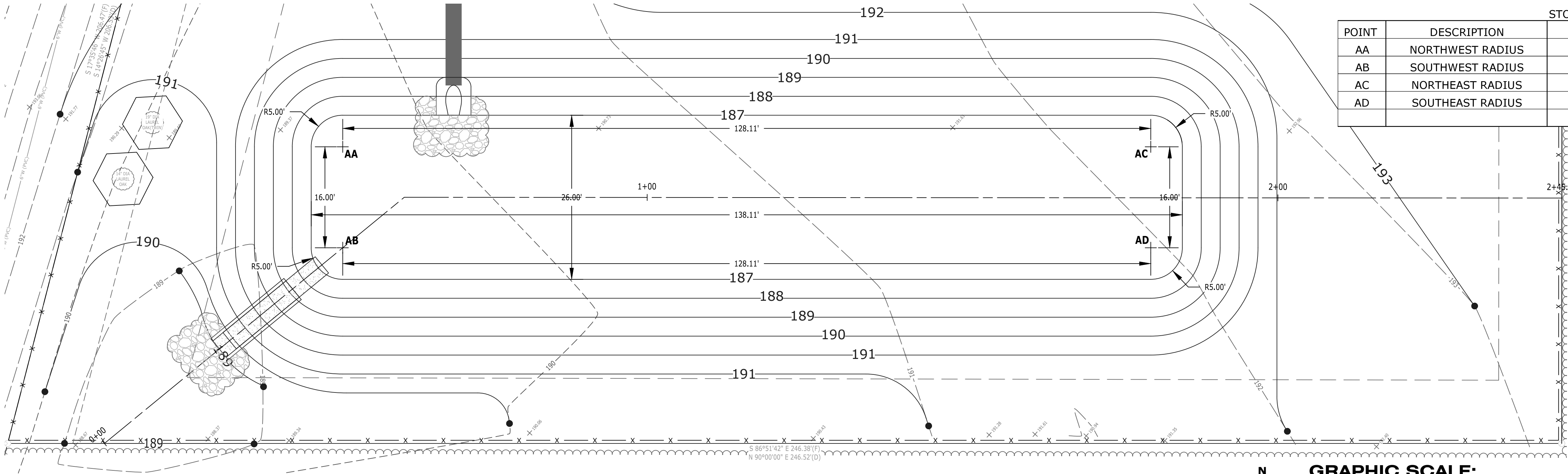
PAVING GRADING AND DRAINAGE NOTES:

- ALL DRAINAGE STRUCTURES ARE TO BE TRAFFIC RATED UNLESS SPECIFICALLY NOTED OTHERWISE.
- AFTER THE DRIVEWAY HAS BEEN CONSTRUCTED TO SUBGRADE, IT SHALL BE PROOF-ROLLED TO ASSURE THAT PROPER COMPACTION HAS BEEN ATTAINED. THE PROOF-ROLLING AND COMPACTION OPERATIONS SHALL BE INSPECTED AND TESTED BY A FLORIDA LICENSED GEOTECHNICAL ENGINEER TO ASSURE THAT THE SPECIFIED COMPACTION IS MAINTAINED AND ALL DELETERIOUS MATERIALS HAVE BEEN REMOVED.
- ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE A MINIMUM CLASS III, UNLESS OTHERWISE APPROVED OR NOTED ON THE PLANS OR SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR GRADING/PAVING ALL ROADWAYS TO DRAIN POSITIVELY IN THE DIRECTION SHOWN BY THE PROPOSED GRADES AND FLOW ARROWS ON THE PLANS. INTERSECTIONS SHALL BE TRANSITIONED TO PROVIDE A SMOOTH DRIVING SURFACE WHILE MAINTAINING POSITIVE DRAINAGE. IF AN AREA OF POOR DRAINAGE IS OBSERVED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PAVING SO THAT A SOLUTION OR RECOMMENDATION FOR CORRECTION CAN BE MADE.
- ALL STORMWATER PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
- CONTRACTOR SHALL SCREED ALL SIDEWALKS ¼" PER FOOT AWAY FROM THE BUILDING.
- ALL HANDICAP ACCESSIBLE SIDEWALKS/ROUTES SHALL BE CONSTRUCTED TO LIMIT CROSS SLOPES TO 2.0% MAXIMUM.
- ALL NEW AND EXISTING ROOF DRAINS, DOWNSPOUTS, AND GUTTERS SHALL BE DIRECTED TOWARDS PROPOSED/EXISTING STORMWATER SYSTEM AS SHOWN ON THE PLANS.
- CONTRACTOR SHALL REFER TO MECHANICAL/ARCHITECTURAL PLANS FOR CONNECTIONS TO DOWNSPOUTS AND ROOF DRAINS AT THE FACE OF BUILDING, AS APPLICABLE.
- THE CONTRACTOR SHALL GRADE ALL POND BOTTOMS TO DRAIN TOWARDS THE SAND FILTER, THE EQUALIZER PIPES, OR OUTFALL STRUCTURE AS APPROPRIATE.
- ALL DRAINAGE STRUCTURES SHALL INCLUDE A POURED INVERT.

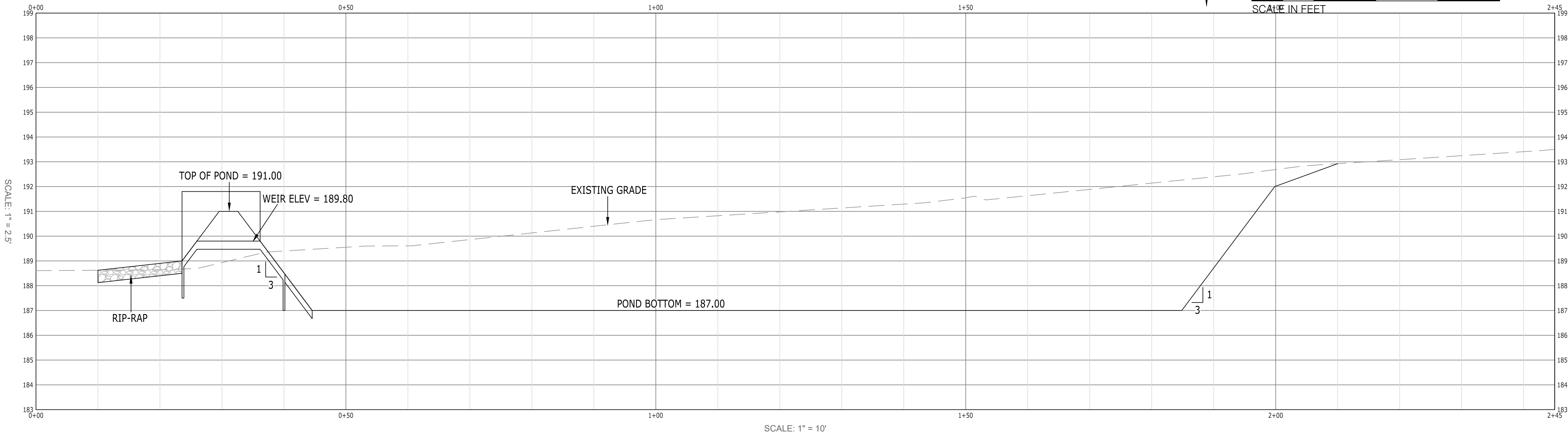


DRIVEWAY ENTRANCE PROFILE





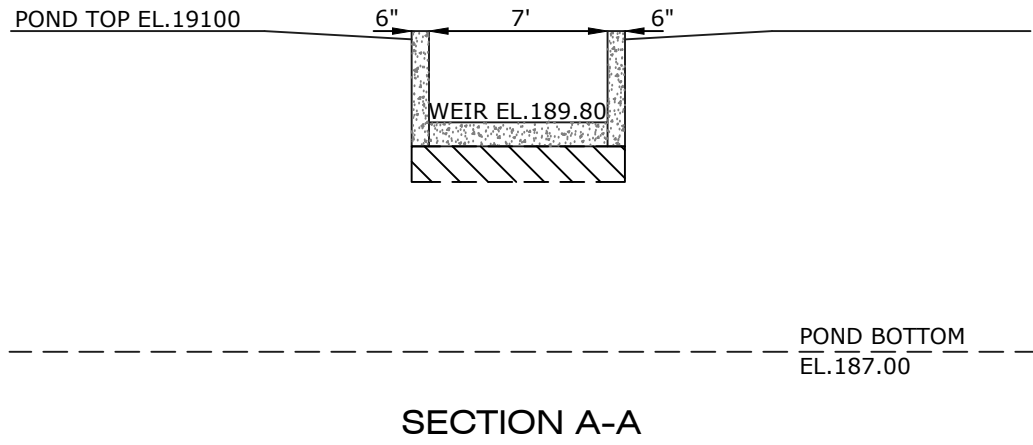
STORMWATER POND			
POINT	DESCRIPTION	NORTHING	EASTING
AA	NORTHWEST RADIUS	637383.8339	1276136.5059
AB	SOUTHWEST RADIUS	637367.8579	1276135.6300
AC	NORTHEAST RADIUS	637376.8205	1276264.4223
AD	SOUTHEAST RADIUS	637360.8445	1276263.5463



PROFILE:
SCALE: HORIZONTAL 1" = 10'
VERTICAL 1" = 2.5'

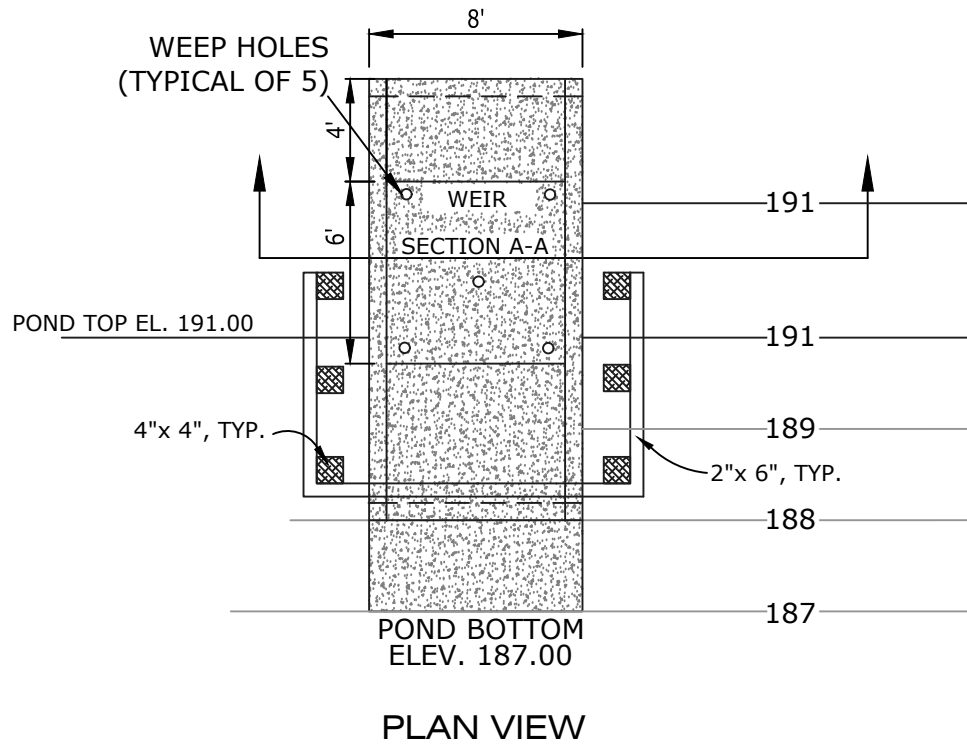
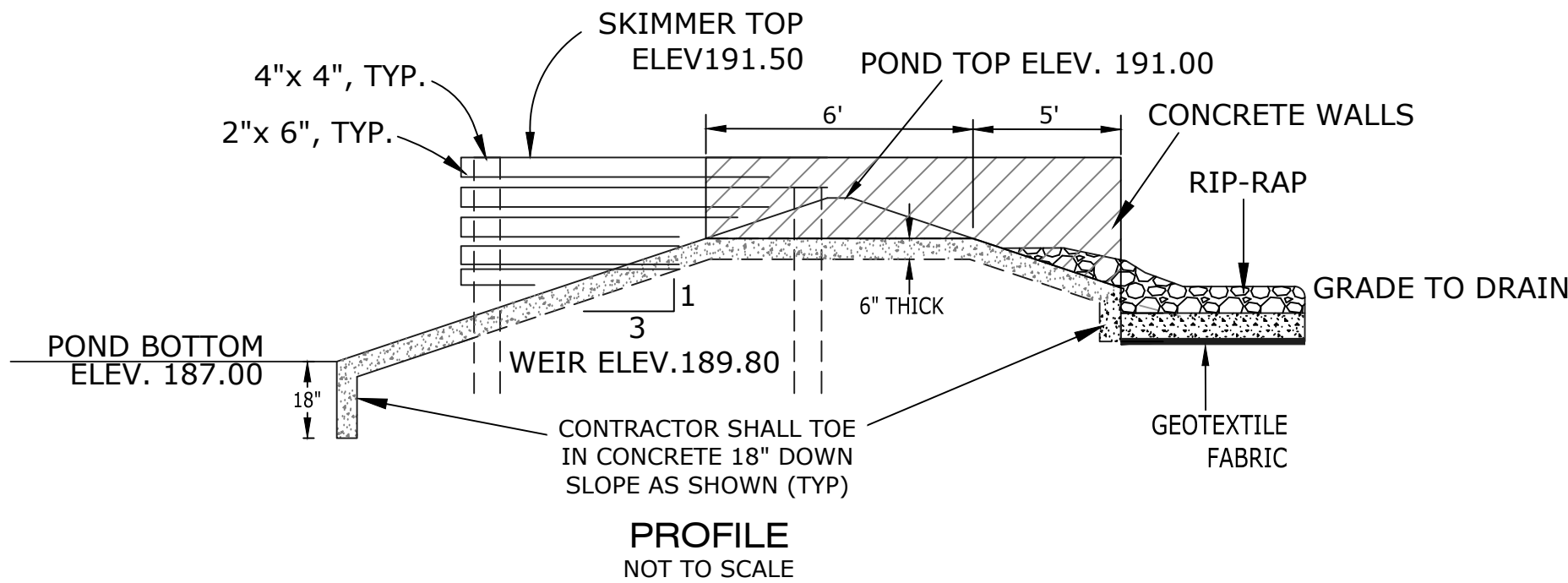
STORMWATER MAINTENANCE NOTES:

1. THE STORMWATER FACILITY SHALL BE MAINTAINED AS NECESSARY IN ORDER TO PROVIDE FOR CONTINUED OPERATION AS DESIGNED.
2. THE OWNER SHALL KEEP ALL PONDS, INLETS, FLUMES, AND/OR SWALES FREE OF ACCUMULATED DEBRIS, SILTATION, AND OTHER OBJECTIONABLE MATERIALS THAT WOULD AFFECT THEIR OPERATION.
3. THE SCHEDULE FOR SUCH MAINTENANCE ACTIVITIES SHALL BE ON AN AS-NEEDED BASIS, DEPENDING ON THE RATE OF DEBRIS ACCUMULATION, GRASS AND VEGETATION GROWTH, AND OTHER VARYING CONDITIONS.
4. IN GENERAL, THE PROCEDURES AND SCHEDULE OF MAINTENANCE ACTIVITIES SHALL CONFORM TO THE REQUIREMENTS OF THE ENVIRONMENTAL RESOURCE PERMIT AND THE REQUIREMENTS OF OKALOOSA COUNTY.
5. SOD IS REQUIRED FOR ALL OF PONDS, UNLESS OTHERWISE NOTED ON THE DETAILS. SOD FOR PONDS SHALL BE EXTENDED TO A MINIMUM OF 5 FEET BEYOND THE POND TOP ELEVATION. TWO ROWS OF SOD IS ALSO REQUIRED ADJACENT TO ALL PAVED AREAS. SOD SHALL BE WATERED IN AT THE CONTRACTOR'S EXPENSE UNTIL FULLY ROOTED AND GROWING. SOD SHALL BE PINNED FOR ALL SLOPES STEEPER THAN 4:1. CONTRACTOR SHALL SOD THE POND BOTTOM.
6. POND SHALL OPERATE AS A SEDIMENT POND UNTIL SITE IS GRADED AND STABILIZED.



OVERFLOW WEIR DETAIL

NOTES:
CONCRETE SHALL BE 6" THICK FIBERMESH 4000 PSI. PROVIDE (5) 4" Ø WEEP HOLES IN 6" FLAT TOP SECTION. WEEP HOLES SHALL BE FILLED WITH GRAVEL WITH FILTER FABRIC BELOW AND STAINLESS STEEL WIRE MESH OVER TOP OF HOLES. FASTEN MESH TO CONCRETE WITH STAINLESS STEEL CONNECTORS.



POND GEOMETRY AND CROSS SECTION

As-Built Record Drawing
by _____ Date _____

WELL #4 AND ELEVATED TANK #3
FOR
HOLT WATER WORKS, INC

FLORIDA

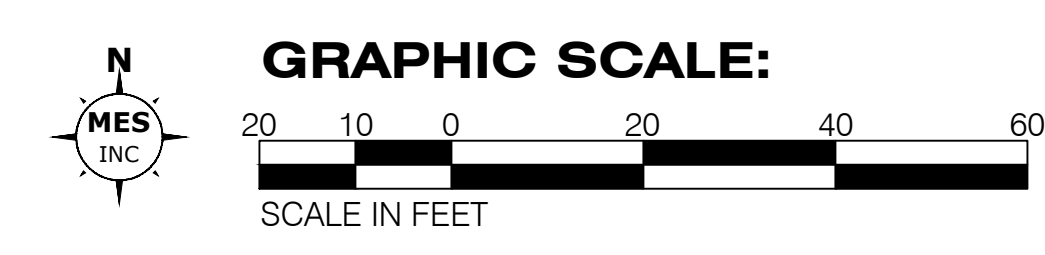
OKALOOSA COUNTY

REVISION	

Date: E. Long, P.E.

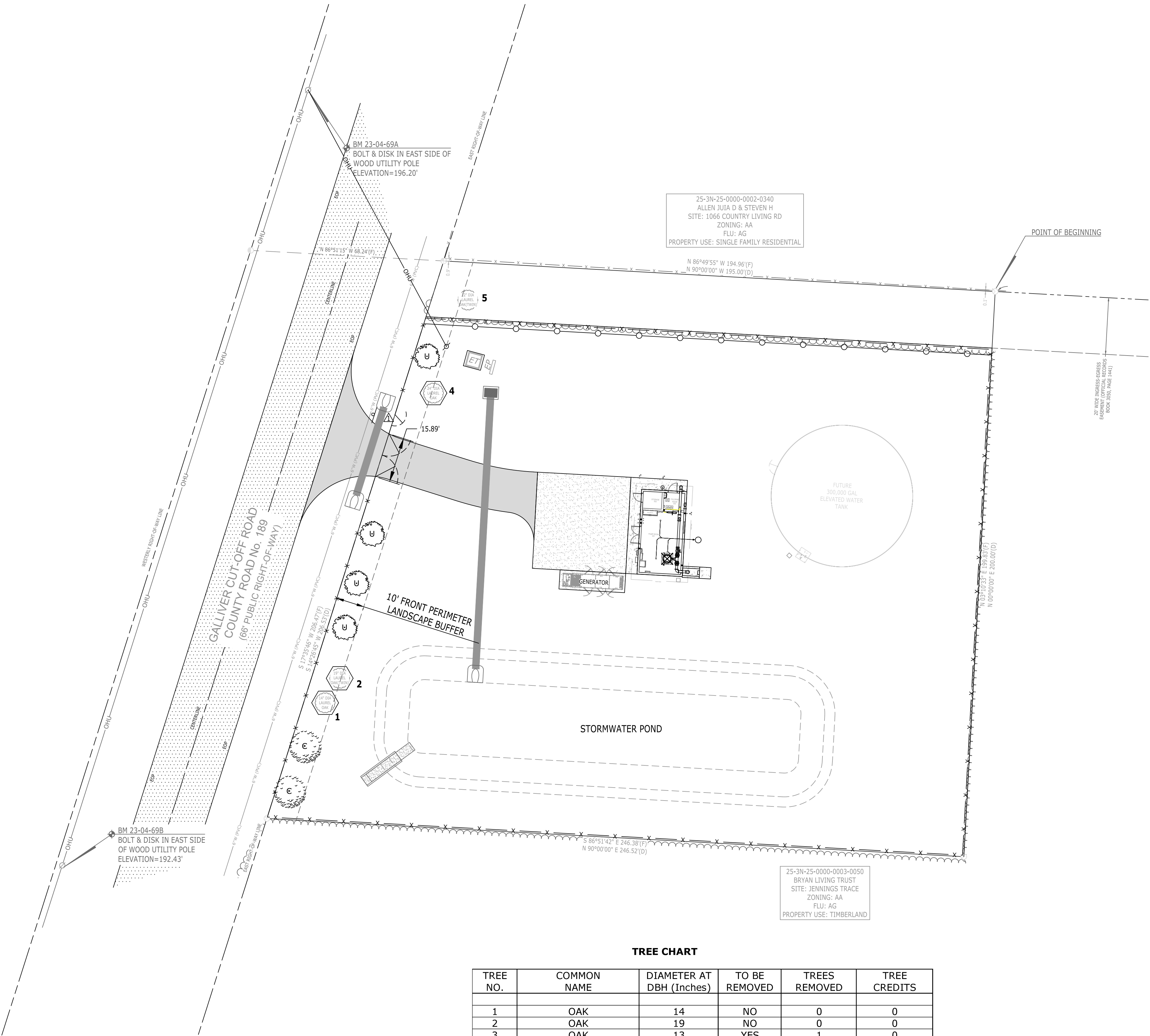
P.E. #55393

SCALE: AS NOTED
DATE: FEBRUARY 2025
JOB NUMBER: 190002-01
FILENAME: SEE LEFT
DRAWN BY: EMO
DESIGNED BY: DEL
SHEET:



ASPHALT DRIVE & CONCRETE PAD			
POINT	DESCRIPTION	NORTHING	EASTING
C1	NORTHWEST	637462.0622	1276176.4554
C2	SOUTHWEST	637428.1145	1276174.5941
C3	SOUTHEAST	637426.3079	1276207.5446
C4	NORTHEAST	637460.2555	1276209.4059
D1	DRIVEWAY WEST	637474.2294	1276102.0375
D2	DRIVEWAY PT	637459.1123	1276150.0804
D3	DRIVEWAY PT	637454.6515	1276174.6208
D4	DRIVEWAY EAST	637452.7668	1276208.9953

- GEOMETRY AND STRIPING NOTES:**
1. ALL STRIPING AND SIGNAGE SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
 2. ALL SIGNS SHALL BE INSTALLED PER F.D.O.T. INDEX #700-010 AND #700-101.



TREE CHART

TREE NO.	COMMON NAME	DIAMETER AT DBH (Inches)	TO BE REMOVED	TREES REMOVED	TREE CREDITS
1	OAK	14	NO	0	0
2	OAK	19	NO	0	0
3	OAK	13	YES	1	0
4	OAK	24	NO	0	0
5	OAK	22	NO	0	0

OKALOOSA COUNTY LDC 6.05.032 REQUIRES THAT TREE MITIGATION EQUALS 1:1 TREE MITIGATION FOR EACH PROTECTED TREE REMOVED.

TOTAL TREES REMOVED =	1	TREES REQUIRED TO BE REPLACED
IMPERVIOUS AREA PROPOSED =	5,468	SF
NO. TREES REQUIRED TO BE PRESERVED (PER LDC 6.05.03) =	1	1 TREE PER 4300 SF IMPERVIOUS
ON-SITE TREE CREDITS =	0	PER LDC 6.05.031
TREE CREDITS REMAINING =	0	

- LANDSCAPING AND PLANTING NOTES:**
- PROPOSED PLANTINGS SHOWN ON THIS SHEET SHALL MEET THE OKALOOSA COUNTY LDC REQUIREMENTS AND SHALL BE NATIVE.
 - THE CONTRACTOR WILL BE REQUIRED TO WATER IN ALL PLANTINGS AND IRRIGATION WILL BE PROVIDED VIA WATER HOSES OR WATER TRUCKS UNTIL THE PLANTS ARE PROVEN TO BE ALIVE AND GROWING.
 - NO MORE THAN 50% OF REQUIRED LANDSCAPING MATERIAL MAY BE OF THE SAME SPECIES.
 - THE PLANTING CONTRACTOR SHALL PROVIDE NATIVE FLORIDA NURSERY GROWN STOCK SUPPLIED BY A FLORIDA NATIVE PLANT SUPPLIER.
 - ALL PLANTINGS SHALL CONFORM TO THE STANDARDS FOR FLORIDA GRADE NO. 1, OR BETTER, AS PROVIDED IN THE LATEST EDITION OF GRADES AND STANDARDS FOR NURSERY PLANTS, DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
 - THE PLANTING CONTRACTOR IS RESPONSIBLE FOR DELIVERY OF PLANT MATERIALS TO THE PROJECT SITE. MATERIALS SHALL BE PROTECTED FROM DETERIORATION DURING DELIVERY FROM THE NURSERY AND DURING STORAGE ON THE PROJECT SITE PRIOR TO INSTALLATION.
 - PLANTS SHOULD BE INSTALLED IMMEDIATELY FOLLOWING DELIVERY TO THE PROJECT SITE. IF PLANTING IS DELAYED FOR MORE THAN THREE (3) HOURS AFTER DELIVERY TO THE PROJECT SITE, PLANTINGS ARE TO BE PLACED IN THE SHADE AND PROTECTED FROM ADVERSE WEATHER AND MECHANICAL DAMAGE. ROOTS ARE TO BE KEPT MOIST BY COVERING WITH BURLAP, MULCH, OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.
 - CONTAINER GROWN STOCK SHALL NOT BE REMOVED FROM CONTAINERS UNTIL PLANTING TIME.
 - THE PLANTING CONTRACTOR SHALL KEEP THE PROJECT SITE CLEAN AND FREE OF ACCUMULATED SURPLUS AND DISCARDED PLANT MATERIAL DURING THE PROGRESS OF PLANTING.
 - THE CONTRACTOR SHALL PHASE CONSTRUCTION OPERATIONS SO THAT AREAS THAT REQUIRE PLANTING WILL BE READY FOR INSTALLATION OF PLANTS AS EARLY AS POSSIBLE IN THE FIRST OPTIMUM PLANTING SEASON. PLANTING WILL COMMENCE IMMEDIATELY UPON COMPLETION AND UPON APPROVAL OF THE PRE-PLANTING GRADING OF THE AREA BY THE PLANTING CONTRACTOR AND THE PROJECT ENGINEER.
 - REQUIRED TREES AND SHRUBBERY SHALL BE PLANTED IN LOCATIONS AS SHOWN ON PLANS. SPACING AND SPECIES SHALL BE BY OTHERS BUT ALL PLANTINGS SHALL BE DROUGHT TOLERANT, NATIVE, AND OF THE SPECIES APPROVED BY OKALOOSA COUNTY.
 - ALL LANDSCAPING SHALL BE PLACED WITHIN PROPERTY BOUNDARIES. NO LANDSCAPING SHALL BE PLACED WITHIN THE COUNTY RIGHT-OF-WAY.
 - GROUND COVER SPECIES SHALL HAVE A MINIMUM MATURE HEIGHT OF 24 INCHES AND A MAXIMUM HEIGHT OF 30 INCHES.
 - SEE LEGEND FOR EXISTING AND PROPOSED LANDSCAPING SYMBOLS.
 - ALL AREAS OF THE SITE THAT DO NOT CONTAIN GRASS OR LANDSCAPING PRIOR TO, OR AFTER CONSTRUCTION SHALL BE DISCED, SEEDED AND MULCHED, HYDROSEEDED, OR SODDED. THE CONTRACTOR SHALL ENSURE THAT THE ENTIRE SITE IS STABILIZED AND THAT ANY ERODED AREAS, ANYWHERE ON SITE, ARE REMEDIED. UNLESS OTHERWISE SPECIFIED, GRASSING SHALL BE NATIVE AND DROUGHT TOLERANT CENTIPEDE.
 - ALL LANDSCAPING SHALL UTILIZE NATIVE PLANT SPECIES OR THOSE SPECIES LISTED IN THE FLORIDA-FRIENDLY LANDSCAPING GUIDE TO PLANT SELECTION AND LANDSCAPING DESIGN.
 - IRRIGATION FOR THE PROPOSED PLANTINGS WILL BE PROVIDED VIA THE SITE POTABLE WATER SYSTEM.

FRONT PERIMETER LANDSCAPING REQUIREMENTS (LDC 6.05.021)

LENGTH OF FRONT PROPERTY LINE	= 216 LF
1 TREE PER 25' OF FRONT PERIMETER	= 216/25 = 8.64 = 9 TREES
EXISTING TREES WITHIN FRONT PERIMETER	= 3
PROPOSED TREES REQUIRED	= 6

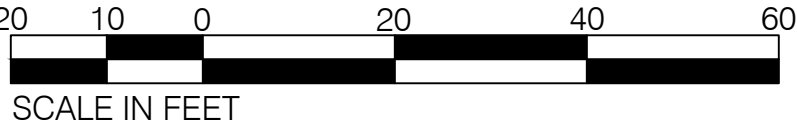
50% OF TREES SHALL BE SHADE TREES	= 9/2 = 4.5 => 5 TREES
EXISTING CANOPY TREES	= 3
PROPOSED CANOPY TREES	= 2

LEGEND:

- UNDERSTORY TREE
- CANOPY TREE



GRAPHIC SCALE:



LANDSCAPING PLAN

NOT Released for Construction by _____ Date _____
As-Built / Record Drawing by _____ Date _____

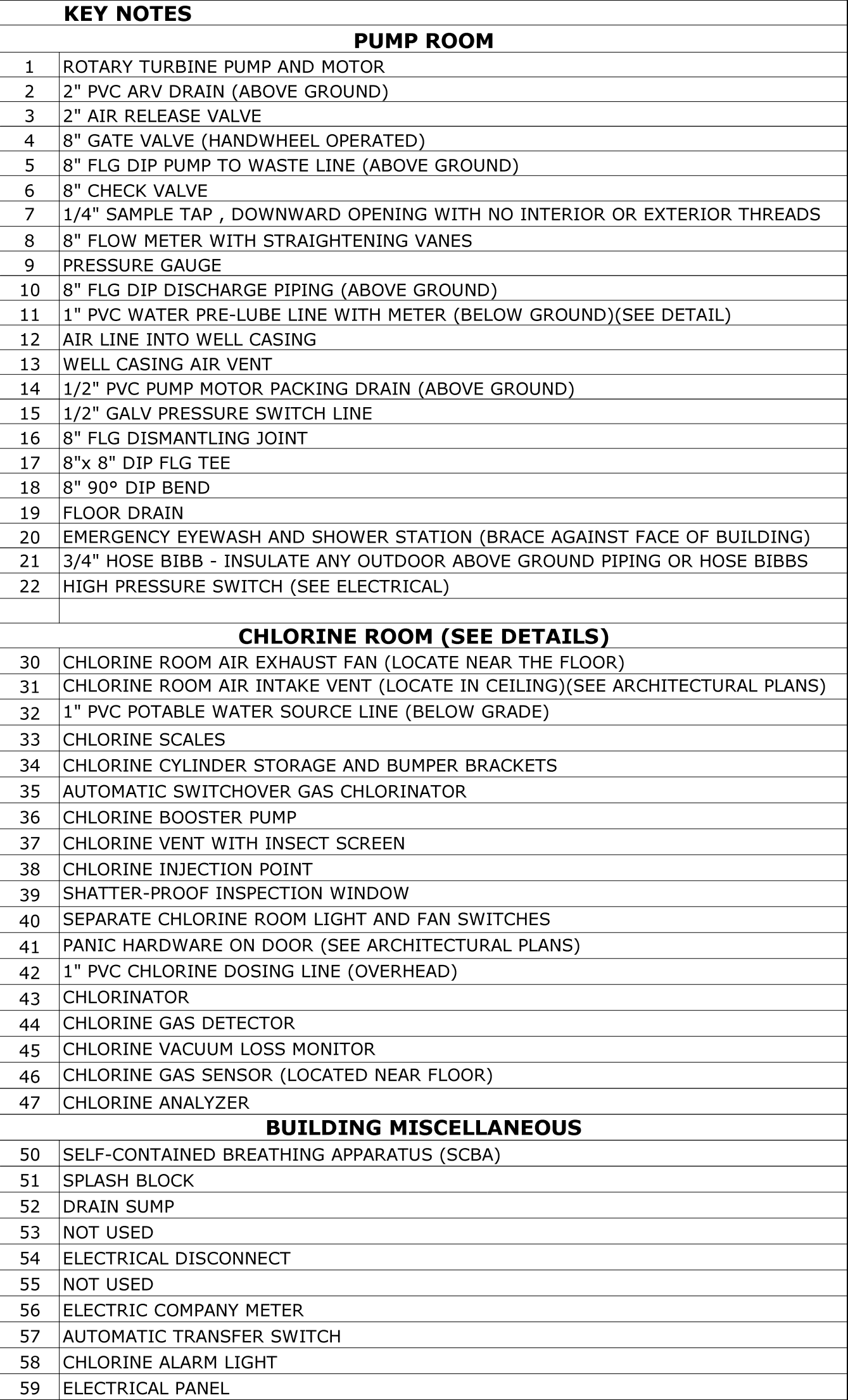
WELL #4 AND ELEVATED TANK #3
FOR
HOLT WATER WORKS, INC
OKALOOSA COUNTY
FLORIDA

REVISION	OKALOOSA COUNTY	05-26-25
Δ	COMMENTS	

Dale E. Long, P.E.

P.E. #55393

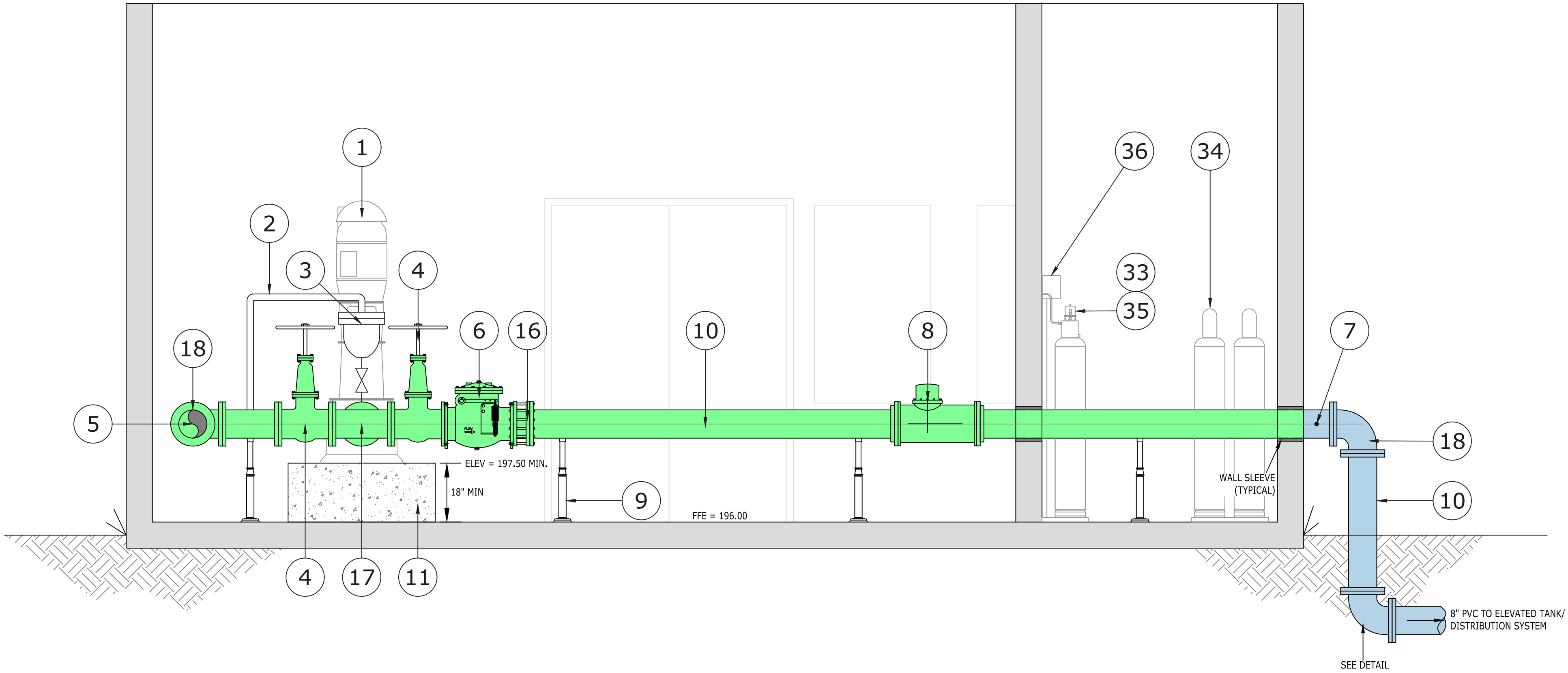
SCALE: AS NOTED	
DATE: FEBRUARY 2025	
JOB NUMBER: 190002-01	FILENAME: SEE LEFT
DRAWN BY: ENO	DESIGNED BY: DEL
SHEET:	



- NOTES:**
1. CONTRACTOR SHALL SCREED THE PUMP ROOM FLOOR TO DRAIN TO THE FLOOR DRAINS.
 2. ALL (PIPE) WALL PENETRATIONS SHALL BE FITTED WITH A WALL SLEEVE AND LINK SEAL (OR EQUAL) REGARDLESS OF PIPE MATERIAL OR PIPE SIZE.
 3. ALL NEWLY INSTALLED OR CONSTRUCTED PUBLIC WATER SYSTEM COMPONENTS AND DRINKING WATER TREATMENT CHEMICALS THAT COME IN CONTACT WITH DRINKING WATER SHALL MEET THE REQUIREMENTS OF NSF STANDARD 61, LATEST EDITION.
 4. ABOVE GROUND PIPING SHALL BE COLOR CODED AS FOLLOWS:

RAW WATER	- OLIVE GREEN
FINISHED (POTABLE) WATER	- DARK BLUE
CHLORINE (GAS & SOLUTION)	- YELLOW
LIME DOSING SLURRY	- LIGHT GREEN
 5. THE ROOF VENT LOCATED IN THE CHLORINE ROOM SHALL BE DUCTED FROM THE CEILING TO THE TOP OF THE ROOF AND SHALL REMAIN SEALED CLOSED WHEN EXHAUST FAN IS OFF AND OPEN WHEN FAN IS ON. VENTILATION IN THE CHLORINE ROOM SHALL BE ABLE TO COMPLETE ONE AIR CHANGE PER MINUTE WHEN THE ROOM IS OCCUPIED. VENT SHALL BE GREENHECK GRSI (OR EQUAL) SIZED FOR THE APPLICATION AND ABLE TO PASS 1000 CFM OF AIR FLOW. SEE ARCHITECTURAL PLANS FOR LOCATION AND INSTALLATION SPECIFICS.
 6. CONTRACTOR SHALL ENSURE THAT THE CHLORINATOR IS INSTALLED AND CONFIGURED SUCH THAT CHLORINE IS FED INTO THE DRINKING WATER PROPORTIONAL TO THE FLOW.
 7. CHLORINE ROOM CEILING AND INTERIOR SHALL BE FINISHED SUCH THAT ROOM IS "AIR TIGHT" TO ALLOW FOR AIR DISPLACEMENT IN THE EVENT OF A CHLORINE LEAK. SEE ARCHITECTURAL PLANS.
 8. PROVIDE SEPARATE SWITCH FOR FAN AND LIGHTS INTO CHLORINE ROOM. EXTERIOR SWITCHES SHALL BE ENCLOSED AND PROTECTED FROM VANDALISM. A LIGHTED SWITCH INDICATING THAT THE FAN IS OPERATING SHALL BE PROVIDED AT EACH LOCATION.
 9. FLOW METER SHALL HAVE A DIGITAL DISPLAY WITH CAPABILITY TO PROVIDE INSTANTANEOUS FLOW AND FLOW TOTALIZATION.
 10. SCBA SHALL BE AN ALL-WEATHER ENCLOSURE AS MANUFACTURED BY ALLEGRO INDUSTRIES.
 11. CONTRACTOR SHALL REFER TO THE CHLORINE ROOM DETAILS FOR MORE INFORMATION ON CHLORINE SYSTEM LAYOUT.

R:\MES\2019\190002-001 HWW Misc Water System Impr\dwg\Hot Well #4 and Tank\Sheets\30 C-200 Site Plan.dwg, 6/16/2026 2:36:20 PM



ELEVATION
SCALE: 1/2" = 1'-0"

KEY NOTES	
PUMP ROOM	
1	ROTARY TURBINE PUMP AND MOTOR
2	2" PVC ARV DRAIN (ABOVE GROUND)
3	2" AIR RELEASE VALVE
4	8" GATE VALVE (HANDWHEEL OPERATED)
5	8" FLG DIP PUMP TO WASTE LINE (ABOVE GROUND)
6	8" CHECK VALVE
7	1/4" SAMPLE TAP , DOWNWARD OPENING WITH NO INTERIOR OR EXTERIOR THREADS
8	8" FLOW METER WITH STRAIGHTENING VANES
9	PIPE STAND
10	8" FLG DIP DISCHARGE PIPING (ABOVE GROUND)
11	CONCRETE PUMP BASE
12	NOT USED
13	NOT USED
14	NOT USED
15	NOT USED
16	8" FLG DISMANTLING JOINT
17	8"x 8" DIP FLG TEE
18	8" 90° DIP BEND
CHLORINE ROOM (SEE DETAILS)	
30	NOT USED
31	NOT USED
32	NOT USED
33	CHLORINE SCALES
34	CHLORINE CYLINDER STORAGE AND BUMPER BRACKETS
35	AUTOMATIC SWITCHOVER GAS CHLORINATOR
36	ROTO METER

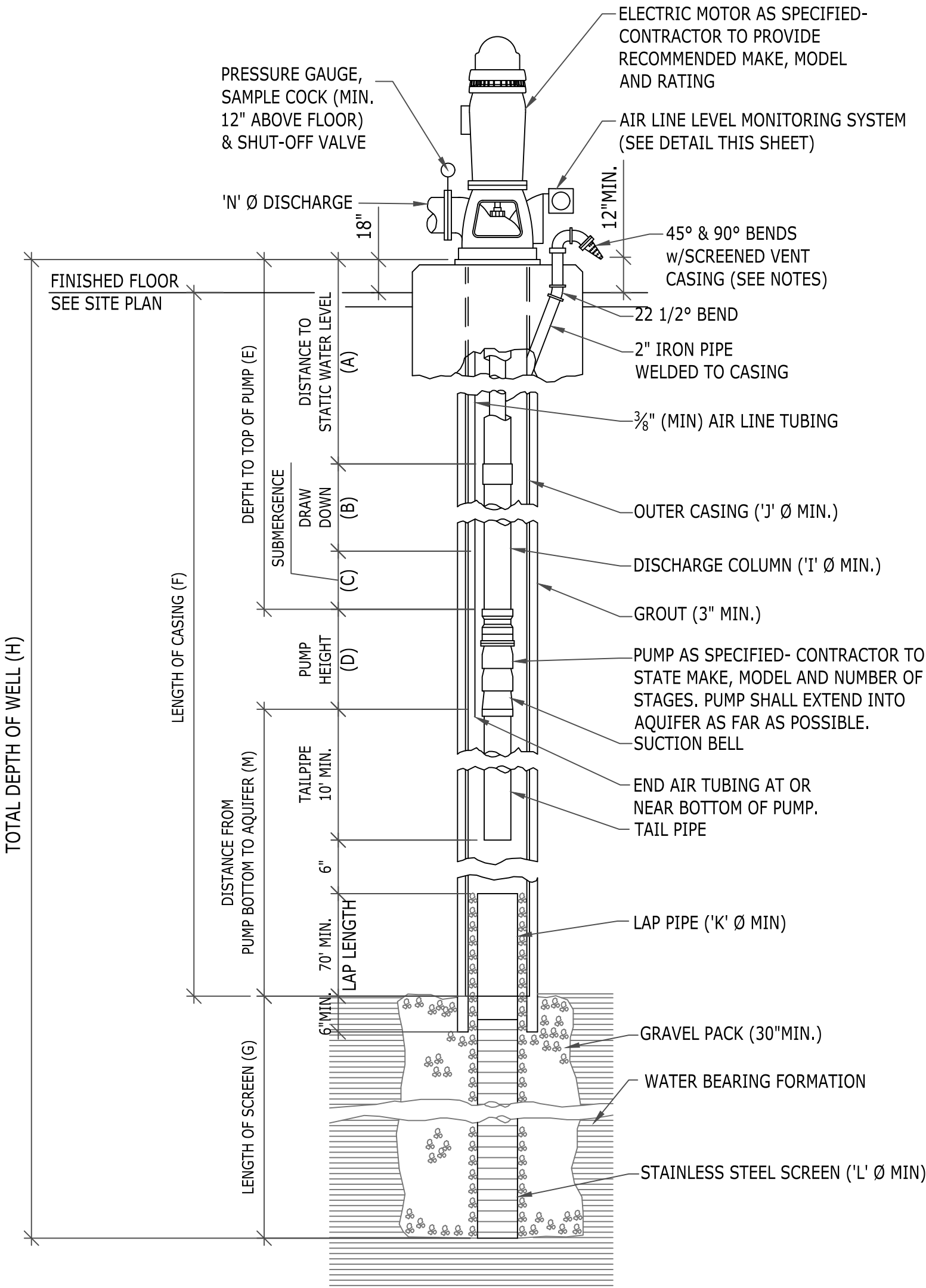
NOTES:

- CONTRACTOR SHALL PROVIDE SLOPE IN PUMP TO WASTE LINE TO ENSURE LINE REMAINS DRY WHEN NOT IN USE.
- CONTRACTOR SHALL REFER TO THE CHLORINE ROOM DETAILS FOR MORE INFORMATION ON CHLORINE SYSTEM LAYOUT.

NOTES:

- CASING VENT SHALL BE TURNED DOWN AS SHOWN. VENT SHALL BE A MINIMUM 1½"Ø OPENING COVERED IN A 24 MESH CORROSION RESISTANT SCREEN.
- DEPTH OF WELL WILL BE DETERMINED BY THE WELL CONTRACTOR. IT IS ANTICIPATED TO BE APPROXIMATELY 800 FEET DEEP.
- ALL DIMENSIONS SHOWN ON THIS SHEET ARE ASSUMED AND PROVIDED AS A BASIS FOR BID.
- PUMP SUCTION BELL SHALL BE INSTALLED AS FAR DOWN INTO THE AQUIFER AS POSSIBLE, BUT SHALL BE NO CLOSER THAN 3" TO THE TOP OF THE SCREEN.
- SURFACE CASING IS NOT SHOWN BUT SHALL BE SIZED AND INSTALLED BY THE CONTRACTOR AS REQUIRED TO MAINTAIN HOLE INTEGRITY.
- CONTRACTOR SHALL PROVIDE DETAILED SUBMITTAL FOR DESIGN PUMP ELEVATIONS AND SUBMERGENCE. ALL DATA SHALL BE PROVIDED/CONFIRMED AS PART OF THE TEST HOLE AND TEST WELL CONSTRUCTION.

WELL DATA																			
WELL NUMBER	LOCATION	FINISHED FLOOR ELEVATION AT WELL	CAPACITY (GPM)	TANK OVERFLOW ELEV. (FT)	ASSUMED MOTOR HP	ASSUMED LENGTH (FEET)										DIAMETER (INCHES)			
						A	B	C	D	E	F	G	H	M	I	J	K	L	N
4	4913T GALLIVER CUTOFF	196	500	327.00	△ 150	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	800	UNK	8	18"	UNK	UNK	8"



WELL CONSTRUCTION DETAIL
NOT TO SCALE

LEGEND

- A DEPTH TO STATIC WATER LEVEL
- B DRAW DOWN
- C SUBMERGENCE
- D PUMP HEIGHT (LENGTH OF BOWLS)
- E DEPTH TO TOP OF PUMP
- F LENGTH OF CASING
- G SCREEN LENGTH
- H TOTAL WELL DEPTH
- I DISCHARGE COLUMN DIAMETER (MIN)
- J OUTER CASING DIAMETER
- K LAP PIPE DIAMETER
- L SCREEN DIAMETER
- M DISTANCE FROM BOTTOM OF PUMP TO TOP OF SCREEN
- N PUMP DISCHARGE DIAMETER

MECHANICAL ELEVATION & WELL CONSTRUCTION DETAIL

As-Built "Record Drawing" by _____ Date _____
NOT Released for Construction by _____ Date _____

WELL #4 AND ELEVATED TANK #3
FOR
HOLT WATER WORKS, INC
OKALOOSA COUNTY
FLORIDA

REVISION
△ BIDDING UPDATES 06-21-26

Date: E. Long, P.E.

P.E. #53393

SCALE: AS NOTED
DATE: FEBRUARY 2025
JOB NUMBER: 190002-01
DRAWN BY: ENO
DESIGNED BY: DEL
SHEET:

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PIPE SIZE	SPECIFICATION	I.D. INCHES	GALLS/100'	CHLORINE REQUIRED PER 100' FOR 25ppm	CHLORINE REQUIRED PER 100' FOR 50ppm
2"	D2241 DR26	2.193"	20	0.10 oz.	0.20 oz.
3"	D2241 DR26	3.230"	43	0.22 oz.	0.44 oz.
4"	C-900 DR18	4.230"	73	0.37 oz.	0.75 oz.
	C-900 DR25	4.390"	79	0.40 oz.	0.81 oz.
6"	C-900 DR18	6.090"	151	0.78 oz.	1.55 oz.
	C-900 DR25	6.300"	162	0.83 oz.	1.66 oz.
8"	C-900 DR18	7.980"	260	1.33 oz.	2.67 oz.
	C-900 DR25	8.280"	280	1.44 oz.	2.87 oz.
12"	C-900 DR18	11.650"	554	2.84 oz.	5.69 oz.
	C-900 DR25	12.080"	595	3.06 oz.	6.12 oz.
16"	C-905 DR18	15.470"	977	5.01 oz.	10.03 oz.
	C-905 DR25	16.010"	1,046	5.37 oz.	10.74 oz.
20"	C-905 DR18	19.200"	1,504	7.72 oz.	15.45 oz.
	C-905 DR25	19.870"	1,611	8.27 oz.	16.55 oz.
24"	C-905 DR18	N/A	N/A	N/A	N/A
	C-905 DR25	23.742"	2,300	11.81 oz.	23.62 oz.

NOTE :
- 16", 20" AND 24" PIPE SIZES ARE C.I.O.D.
- FOR HTH WITH 65% AVAILABLE CHLORINE
- 1 US GALLON WEIGHS 8.345 #
- APPROX. 1 oz./100 gal FOR 50 ppm
- APPROX. 0.5 oz./100 gal FOR 25 ppm

CHLORINE REQUIRED FOR STERILIZATION

NOT TO SCALE

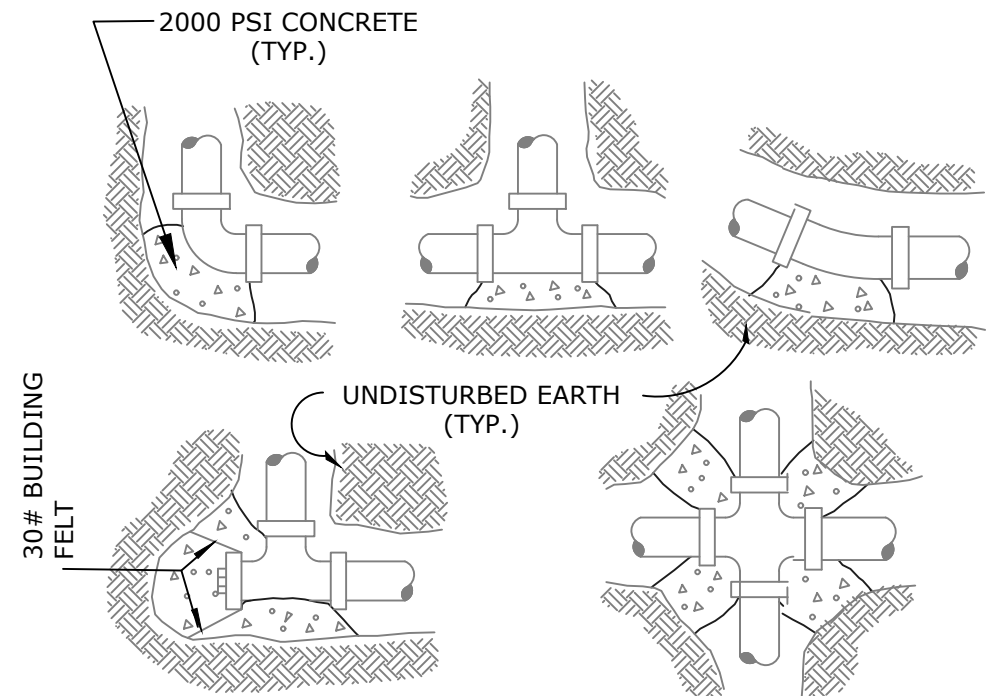
PIPE SIZE AND TYPE	HORIZONTAL BENDS				DEAD ENDS	EQUAL TEES See note 3
	90 Deg.	45 Deg.	22.5 Deg.	11.25 Deg.		
3" DI	18	8	4	2	33	1
4" DI	22	9	4	2	39	1
6" DI	31	13	6	3	55	1
8" DI	40	17	8	4	72	1
10" DI	48	20	9	5	86	1
12" DI	56	23	11	5	101	1
16" DI	70	29	14	7	129	1
20" DI	84	35	17	8	156	18
24" DI	96	40	19	9	181	41
4" PVC	28	12	6	3	62	1
6" PVC	39	16	8	4	87	1
8" PVC	50	21	10	5	114	1
10" PVC	60	25	12	6	136	1
12" PVC	70	29	14	7	160	1
16" PVC	88	36	17	9	205	1
20" PVC	105	43	21	10	247	29
24" PVC	120	50	24	12	287	64

SHOWING DISTANCES IN FEET FROM THE FITTING TO BE RESTRAINED TO THE LAST RESTRAINING GLAND REQUIRED

- NOTES :
- TEST PRESSURE = 150 PSI, SOIL GROUP = SM, TRENCH TYPE = 3, DEPTH = 2.5', SAFETY FACTOR = 2
 - RESTRAINED LENGTHS FOR VERTICAL OFFSETS, REDUCERS & UNEQUAL SIZE TEES MUST BE INDIVIDUALLY CALCULATED.
 - WITH EQUAL TEES, THE DISTANCES SHOWN ARE WITH A RUN LENGTH OF 40' AS AN EXAMPLE ONLY. FOR OTHER LENGTHS AND FOR UNEQUAL TEES, INDIVIDUAL CALCULATIONS MUST BE MADE.
 - ALL DEAD ENDS SHALL BE CONSTRUCTED WITH MECHANICAL JOINT RESTRAINTS AND THRUST BLOCKS.

PIPE JOINT RESTRAINT TABULATION

NOT TO SCALE

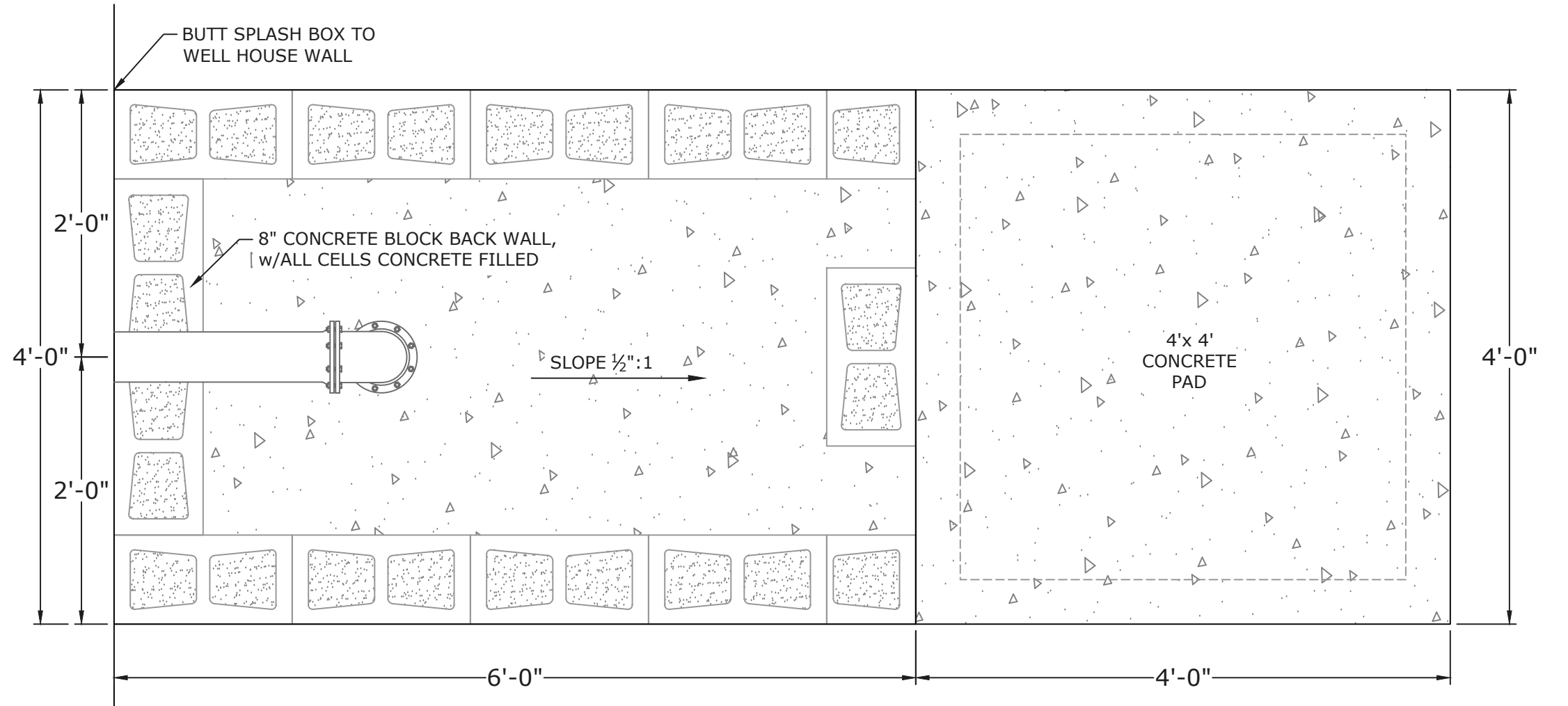
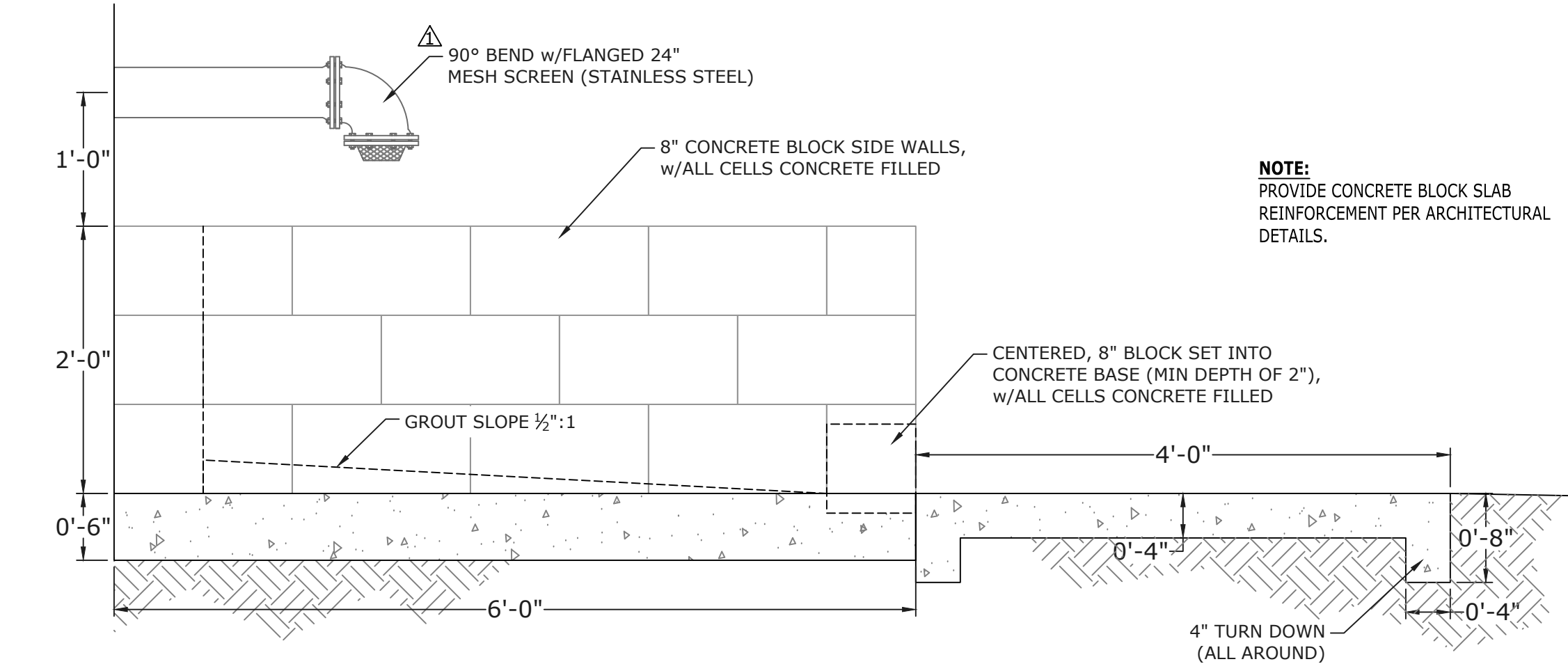


TEE OR CAP	BEARING AREAS			
	90° BEND	45° BEND	22.5° BEND	
2"	1.0 S.F.	1.0 S.F.	1.0 S.F.	
3"	1.3 S.F.	1.8 S.F.	1.0 S.F.	
4"	2.7 S.F.	3.7 S.F.	1.9 S.F.	
6"	4.9 S.F.	6.9 S.F.	1.9 S.F.	
8"	8.1 S.F.	11.3 S.F.	3.2 S.F.	
10"	11.7 S.F.	16.4 S.F.	4.6 S.F.	
12"	17.6 S.F.	24.6 S.F.	6.9 S.F.	

NOTE: MINIMUM THICKNESS OF THRUST BLOCKS TO BE 12 INCHES WITH AREA AS ABOVE.

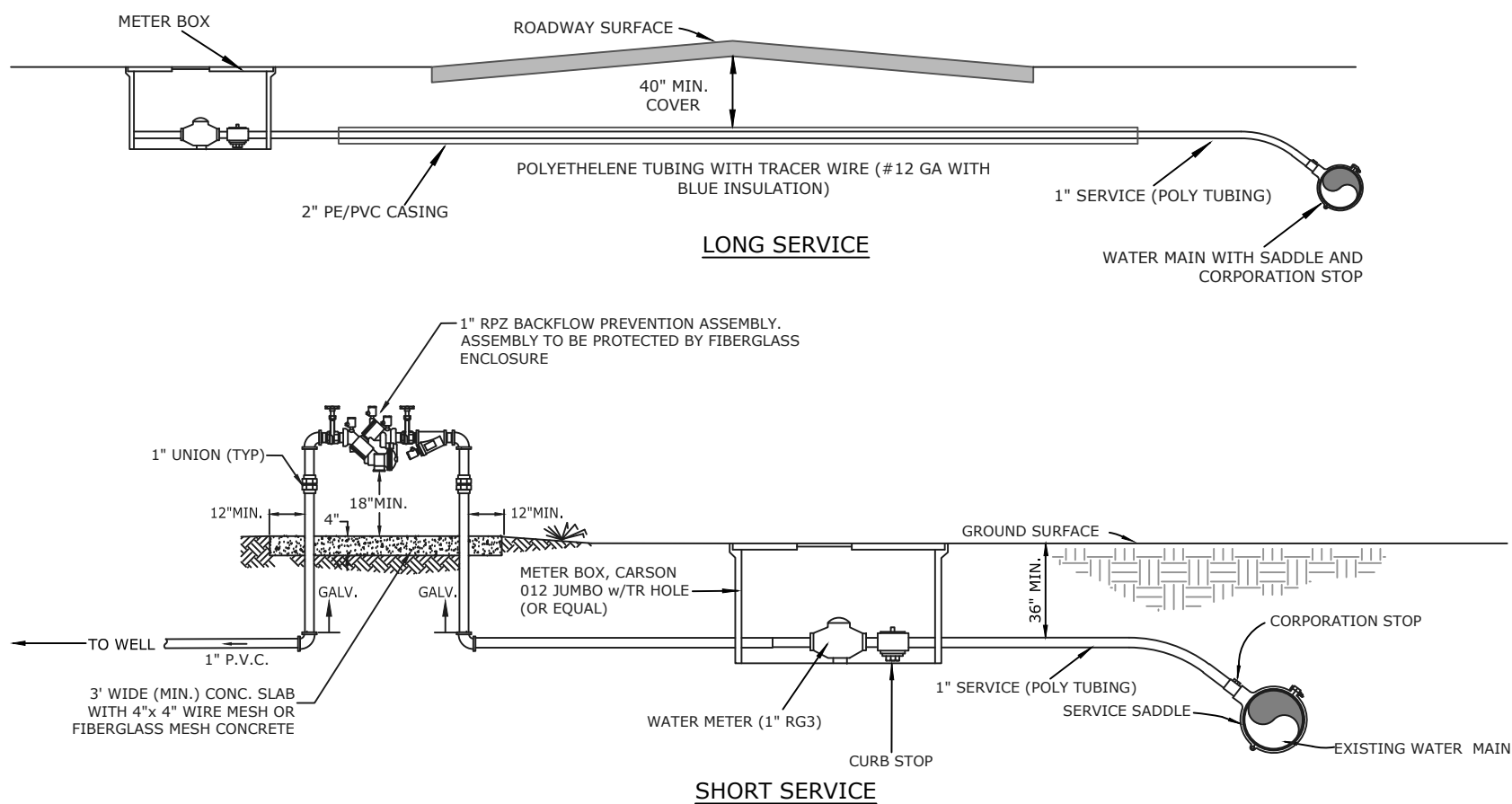
THRUST BLOCK DETAILS

NOT TO SCALE



SPLASH BLOCK DETAIL

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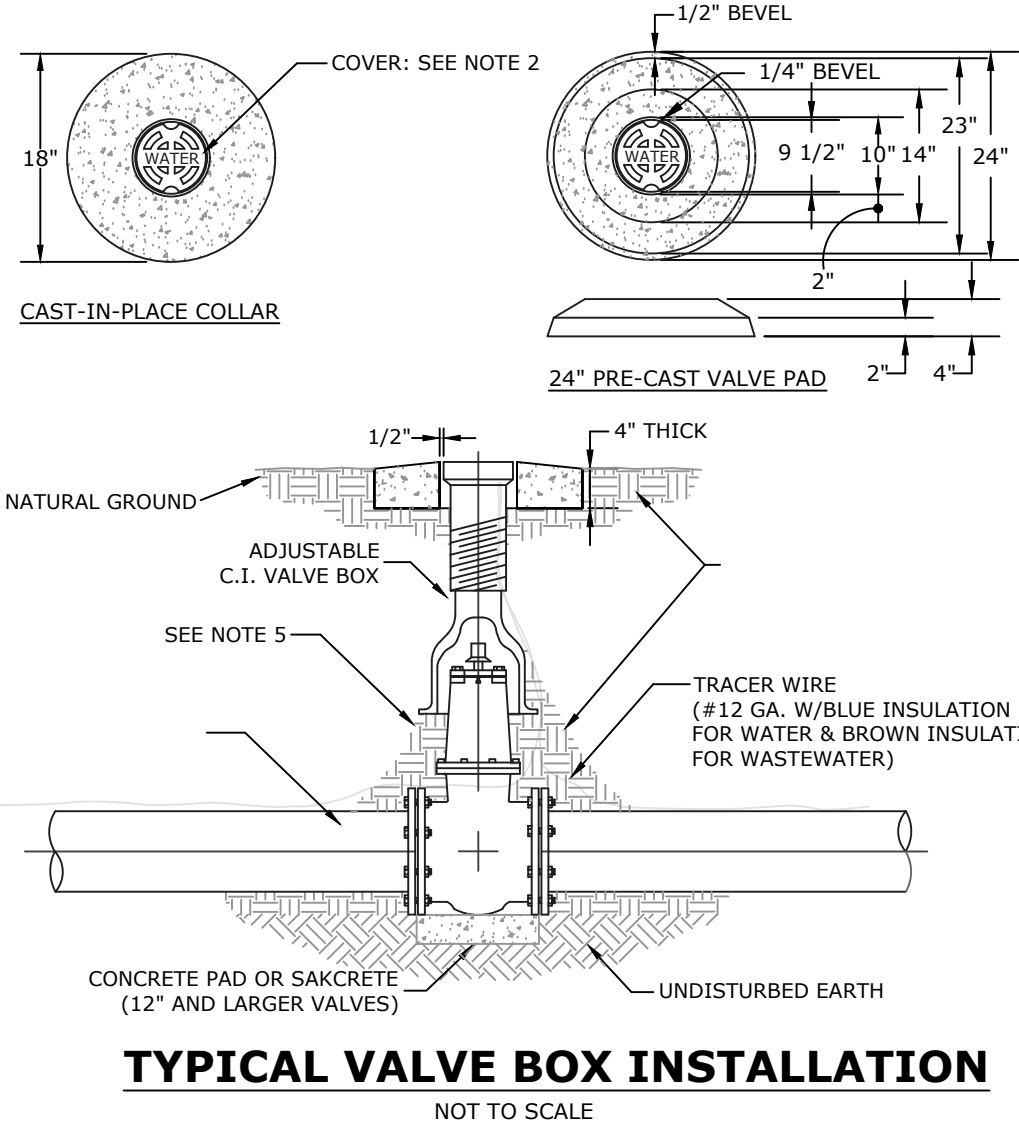


- NOTES:
- CONTRACTOR SHALL INSTALL ALL SERVICES TO PROVIDE 24" MIN. MAIN SEPARATION (ABOVE/BELOW) PROPOSED STORM SEWER WHILE STILL MAINTAINING 36" MINIMUM COVER.
 - ALL LONG SERVICES SHALL BE ENCASED. CASING SHALL BE BORED AND SHALL EXTEND 8' BEYOND EDGE OF PAVEMENT/BACK OF CURB.
 - LONG SERVICES SHALL MATCH THE ELEVATION OF THE MAIN LINE ACROSS ROADWAY & TURN UP AT RIGHT-OF-WAY LINE AT METER BOX.
 - SERVICE TUBING SHALL BE ONE CONTINUOUS PIECE OR SHALL BE BUTT FUSED PER MANUFACTURER'S RECOMMENDATIONS. MECHANICAL COUPLINGS WILL ONLY BE ALLOWED WITH ENGINEER'S APPROVAL. NO COUPLINGS WILL BE ALLOWED UNDER PAVEMENT.
 - OPEN CUTS FOR SERVICES ACROSS PAVED STREETS WILL NOT BE ALLOWED.

TYPICAL WATER SERVICE (WELL BUILDINGS)

N.T.S.

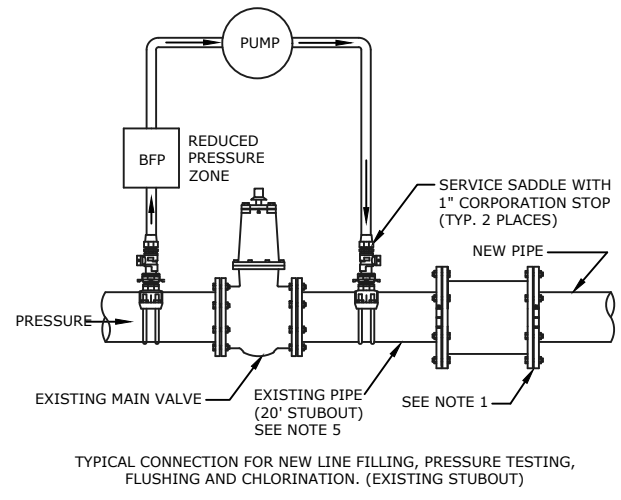
- NOTES:
- VALVE BOX AND BOOT SHALL BE CAST IRON.
 - VALVE COVER SHALL BE MARKED "WATER" OR "SEWER" AS APPLICABLE.
 - VALVE BOX TOP SHALL BE FLUSH WITH FINISHED GRADE OR 1/2" ABOVE NATURAL GROUND LEVEL.
 - GATE VALVE SHALL BE RESILIENT SEAT WITH MECHANICAL JOINT ENDS OR APPROVED EQUIVALENT.
 - EARTH UNDER FLANGE OF VALVE BOX & COLLAR TO BE FIRM AND WELL TAMPED TO ENSURE AGAINST VALVE BOX SETTLING.



TYPICAL VALVE BOX INSTALLATION

NOT TO SCALE

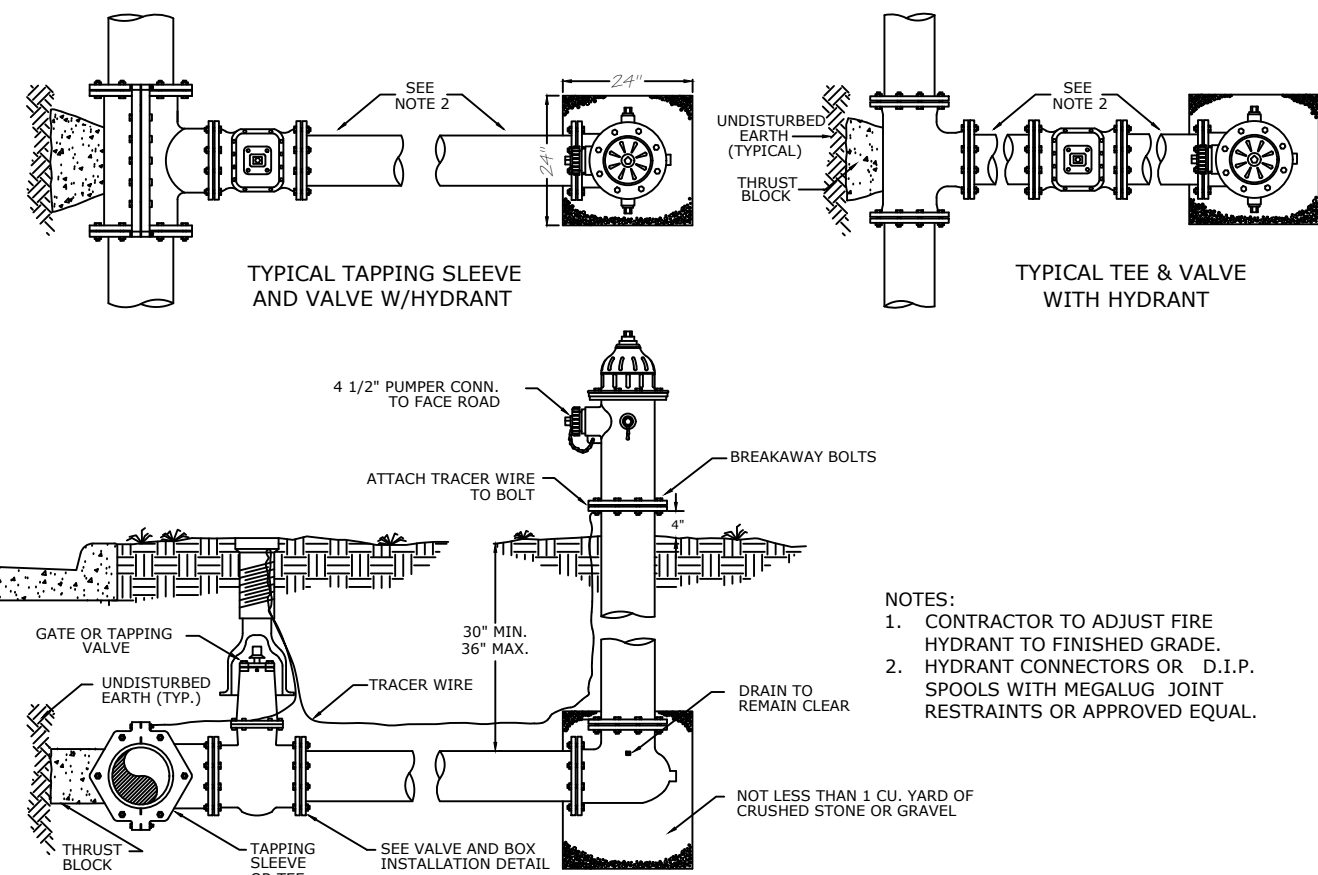
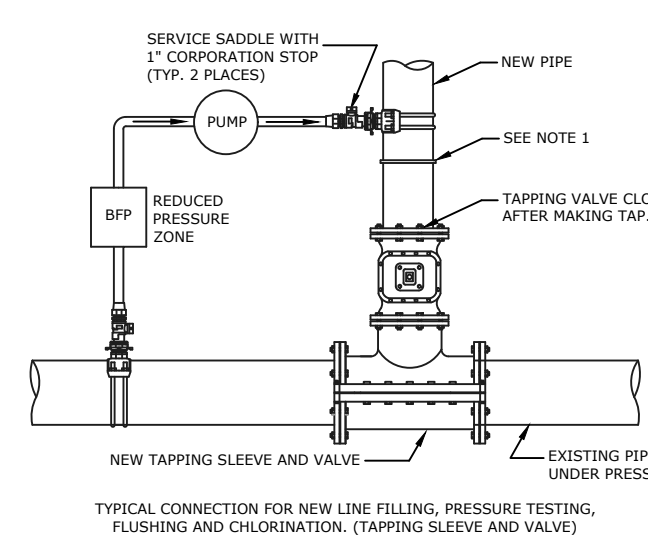
- NOTES:
- NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO EXISTING MAIN.
 - THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE EXISTING VALVE WITH ALL HYDRANTS AND SERVICE LINES OPEN. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE VALVE.
 - ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBING, PUMP AND BACK FLOW PREVENTER, CAP CORPORATION STOPS WITH BRASS CAPS.
 - CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR FILLING, CHLORINATING AND TESTING PROCEDURES.
 - IF 20' STUB OUT IS NOT PRESENT SPECIAL ARRANGEMENTS WILL HAVE TO BE MADE TO DEPRESSURE THE EXISTING MAIN TO MAKE CONNECTION TO THE EXISTING VALVE.



TYPICAL DISINFECTION & CHLORINATION

NOT TO SCALE

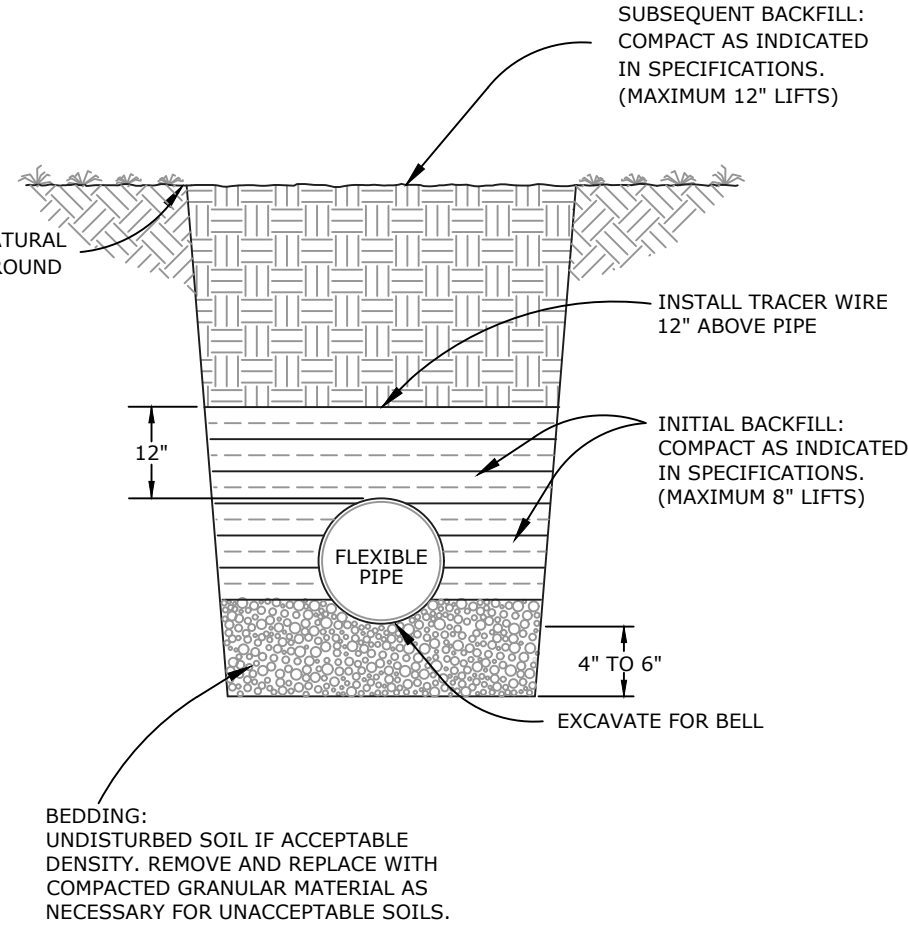
- NOTES:
- NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO THE TAPPING VALVE. TAPPING VALVE IS TO REMAIN CLOSED.
 - THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE TAPPING VALVE WITH ALL HYDRANTS AND SERVICE LINES OPEN.
 - ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBING, PUMP AND BACK FLOW PREVENTER, CAP CORPORATION STOPS WITH BRASS CAPS.
 - CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR FILLING, CHLORINATING AND TESTING PROCEDURES.



TYPICAL FIRE HYDRANT INSTALLATION:

TAPPING SLEEVE & VALVE and TEE CONNECTION

N.T.S.



FLEXIBLE PIPE BEDDING DETAIL

NOT TO SCALE

DETAILS

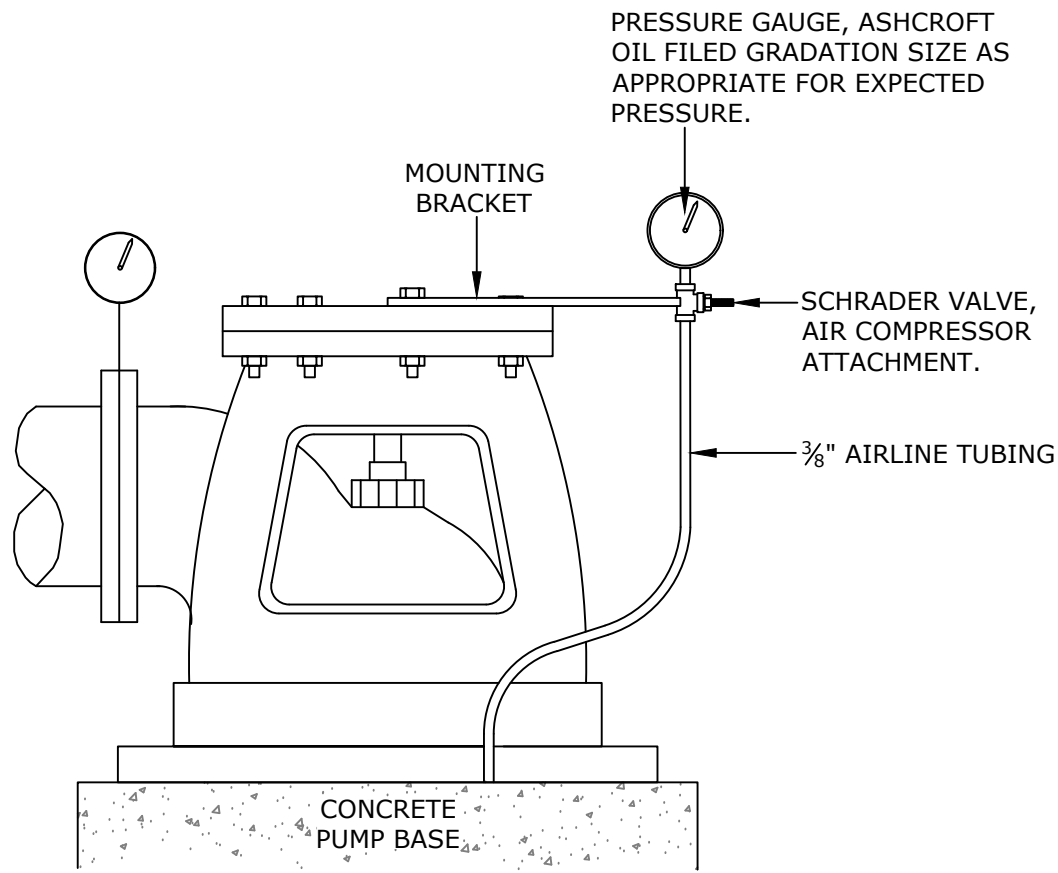
WELL #4 AND ELEVATED TANK #3

FOR
HOLT WATER WORKS, INC

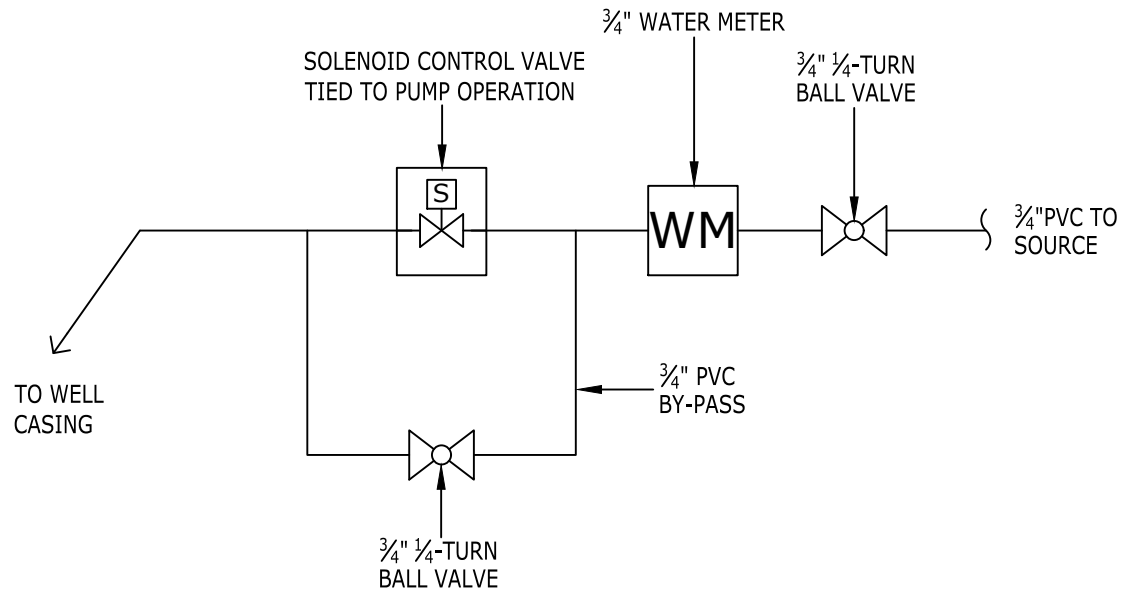
OKALOOSA COUNTY FLORIDA

REVISION		
Δ	FOEP COMMENTS	08-01-25
Dale E. Long, P.E.		
P.E. #53393		
SCALE: AS NOTED		
DATE: FEBRUARY 2025		
JOB NUMBER: 190002-01	FILENAME: 190002-01	SEE LEFT
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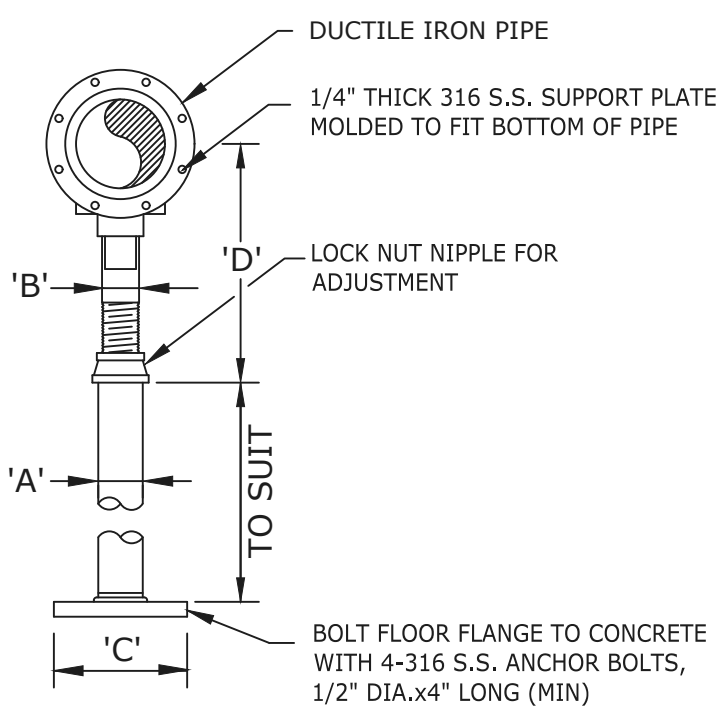
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AIR LINE CONNECTION DETAIL
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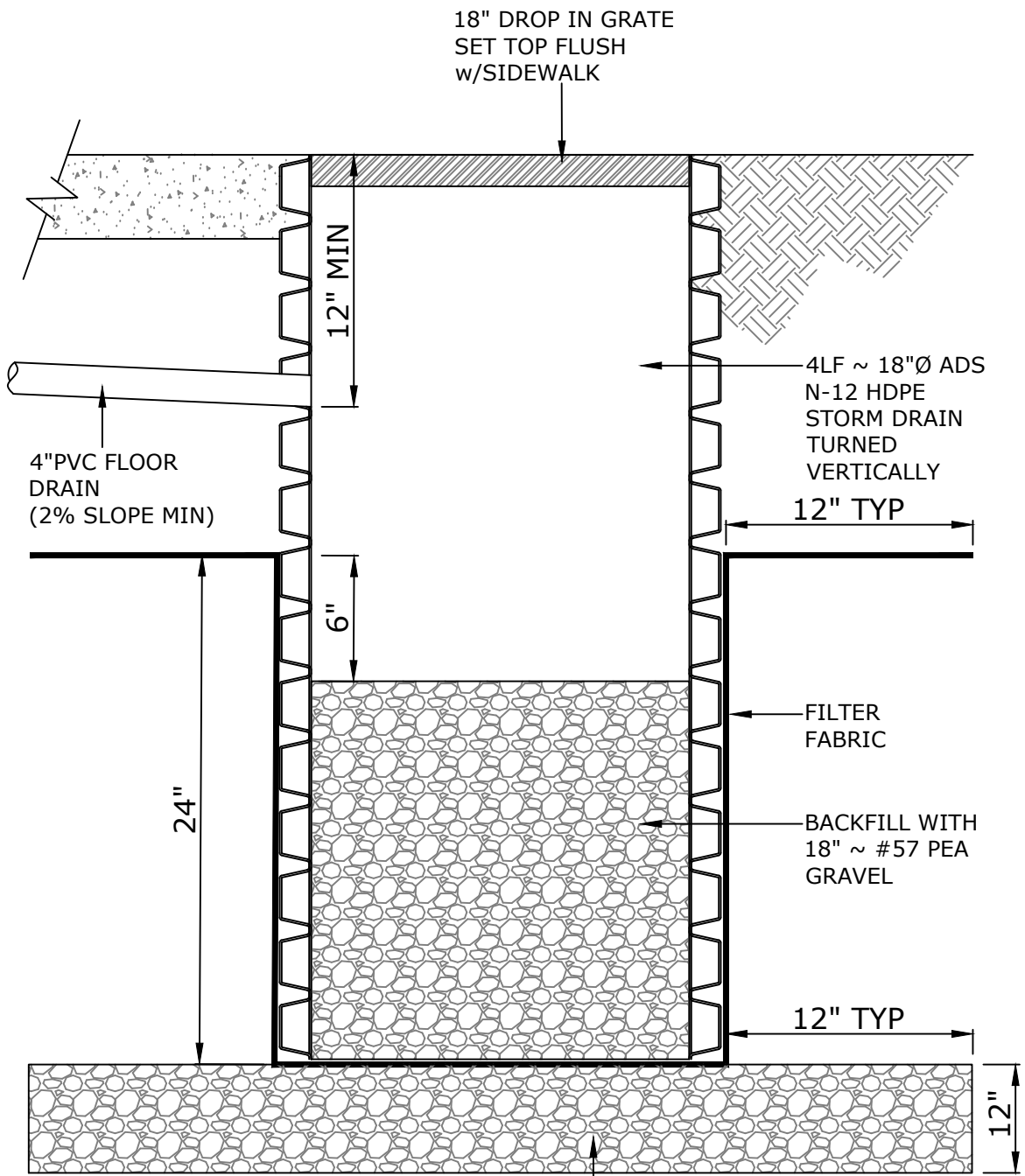
WATER LUBE CONNECTION DETAIL
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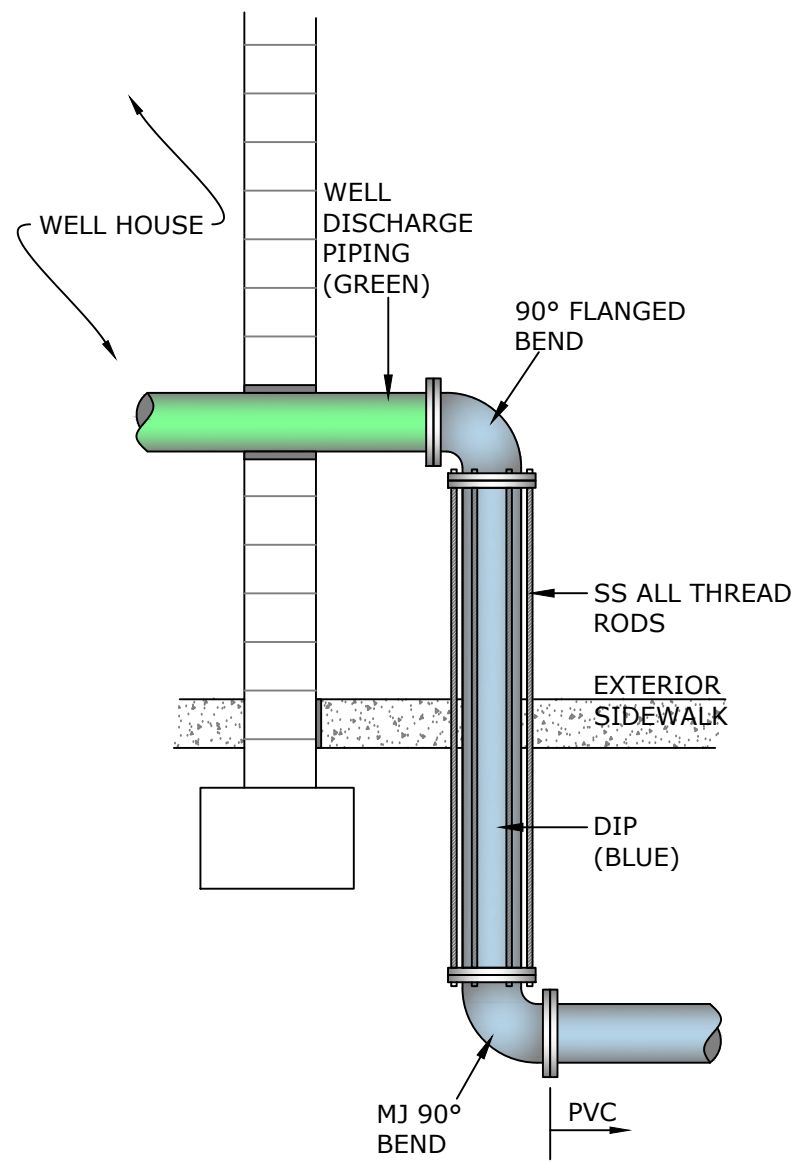
NOTES:
ADJUSTABLE PIPE SUPPORT "ANVIL FIGURE 265" OR EQUAL.
ALL SUPPORT MATERIALS SHALL BE 316SS.

ADJUSTABLE PIPE STAND DETAIL
N.T.S.

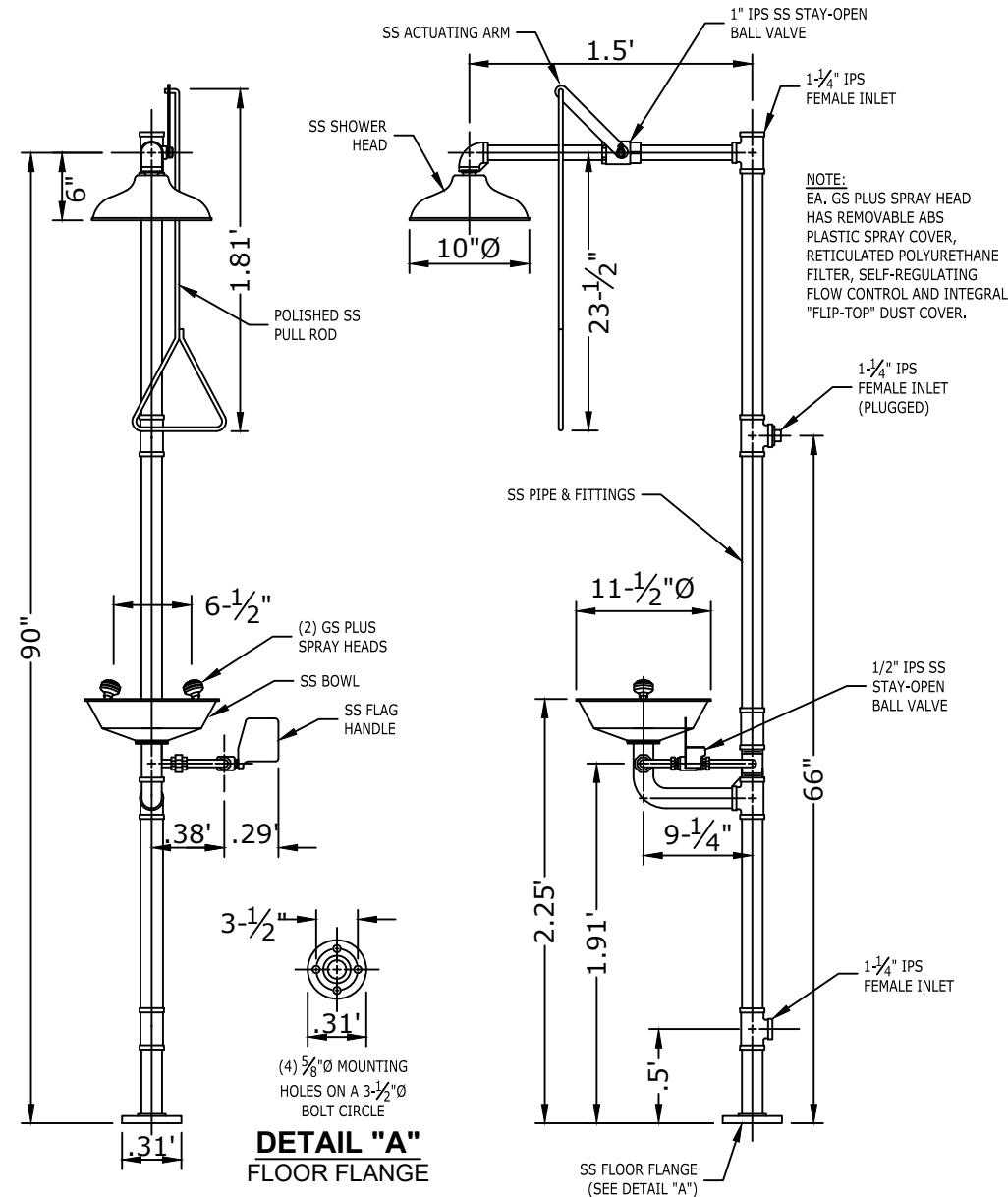
ADJUSTABLE PIPE SUPPORT APPROX DIMENSIONS IN INCHES						
PIPE SIZE	A	B	C	D MIN	D MAX	
2	2	1	9	8	11	
3	2	1	9	8	11	
3	2	1	9	8	12	
4	3	2	9	10	14	
6	3	2	9	11	15	
8	3	2	9	13	16	
10	3	2	9	14	18	
12	3	2	9	15	19	
14	4	3	11	18	20	
16	4	3	11	19	22	
18	6	3	13	21	24	
20	6	3	13	23	25	
24	6	4	13	26	28	
30	6	4	13	29	31	
32	6	4	13	30	32	
36	6	4	13	32	34	



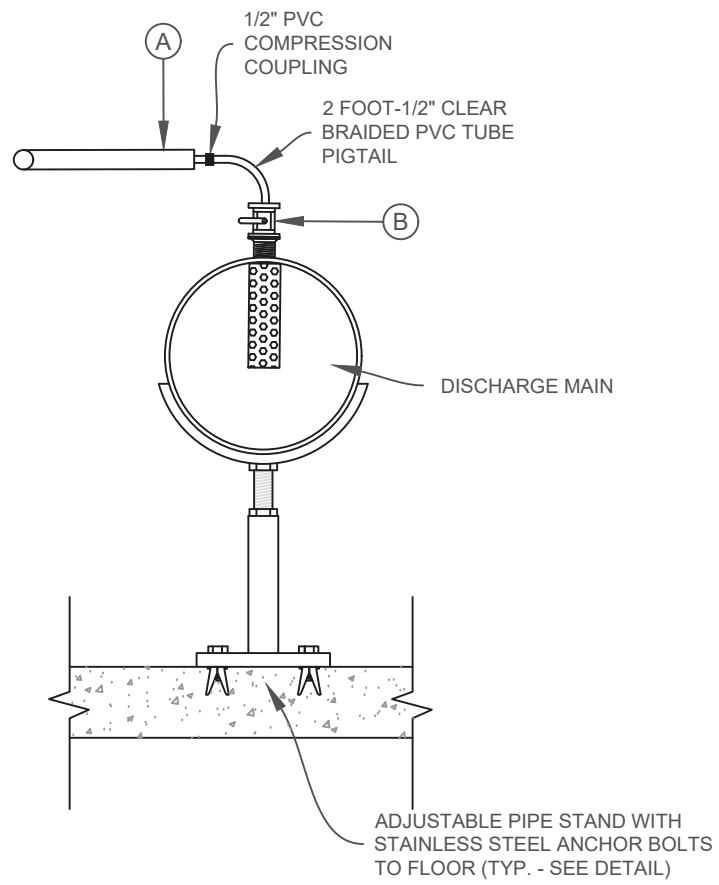
FLOOR DRAIN SUMP DETAIL
NOT TO SCALE



PIPE TRANSITION DETAIL
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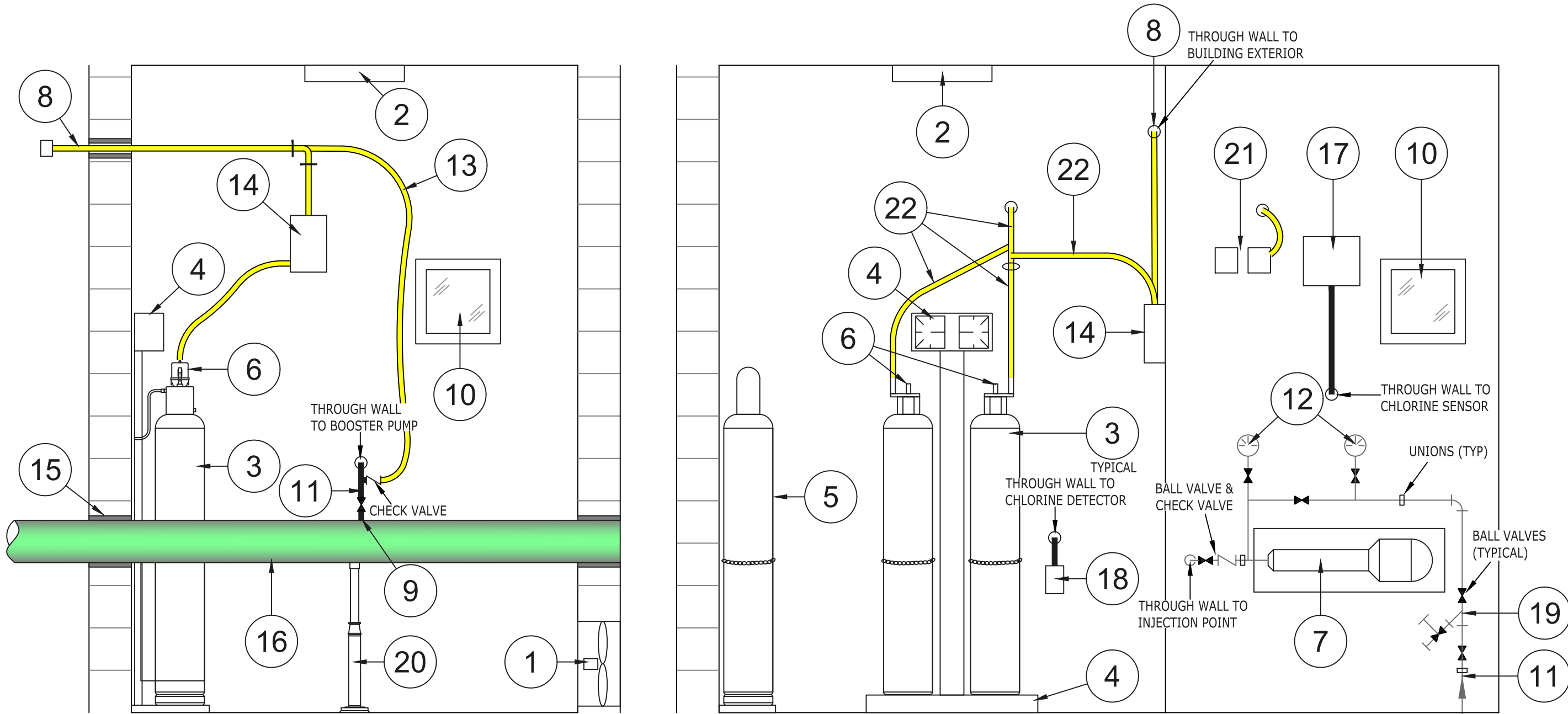


EMERGENCY SHOWER AND EYE WASH STATION
GUARDIAN EQUIPMENT
G1991 CORROSION-RESISTANT ALL-STAINLESS STEEL
SAFETY STATION WITH EYE WASH
N.T.S.



FEED SCHEMATIC
(N.T.S.)

FEED SYSTEM COMPONENTS					
ITEM	QUANTITY	DESCRIPTION	MANUFACTURER	MODEL / SIZE	COMMENTS
A	AS REQD.	SCH. 80 PVC PIPE	-	1/2"	CONTINUOUS WITH PVC FITTINGS
B	1	CORPORATION STOP INJECTORDIFFUSER	ADVANCE	3/4"	-



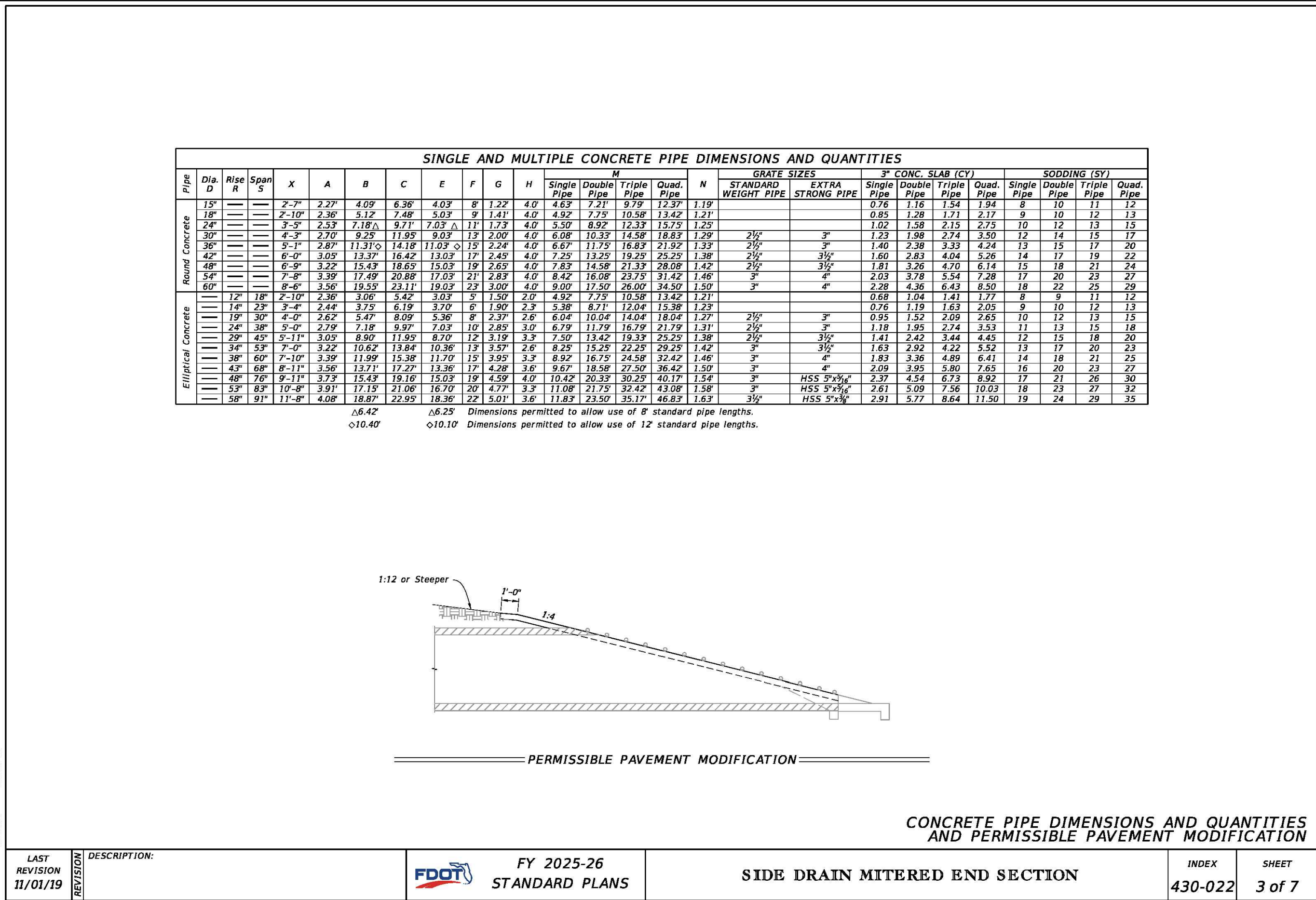
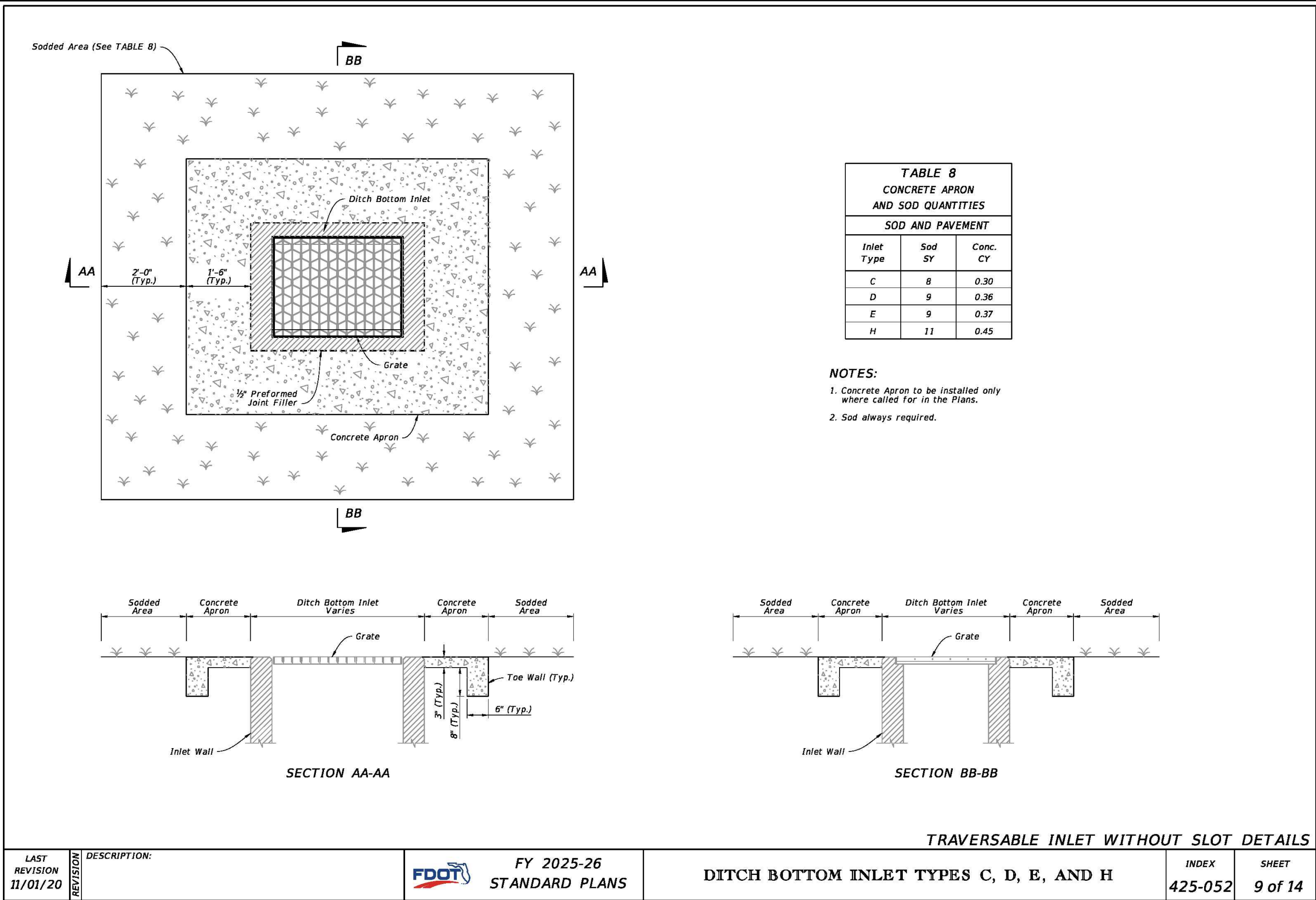
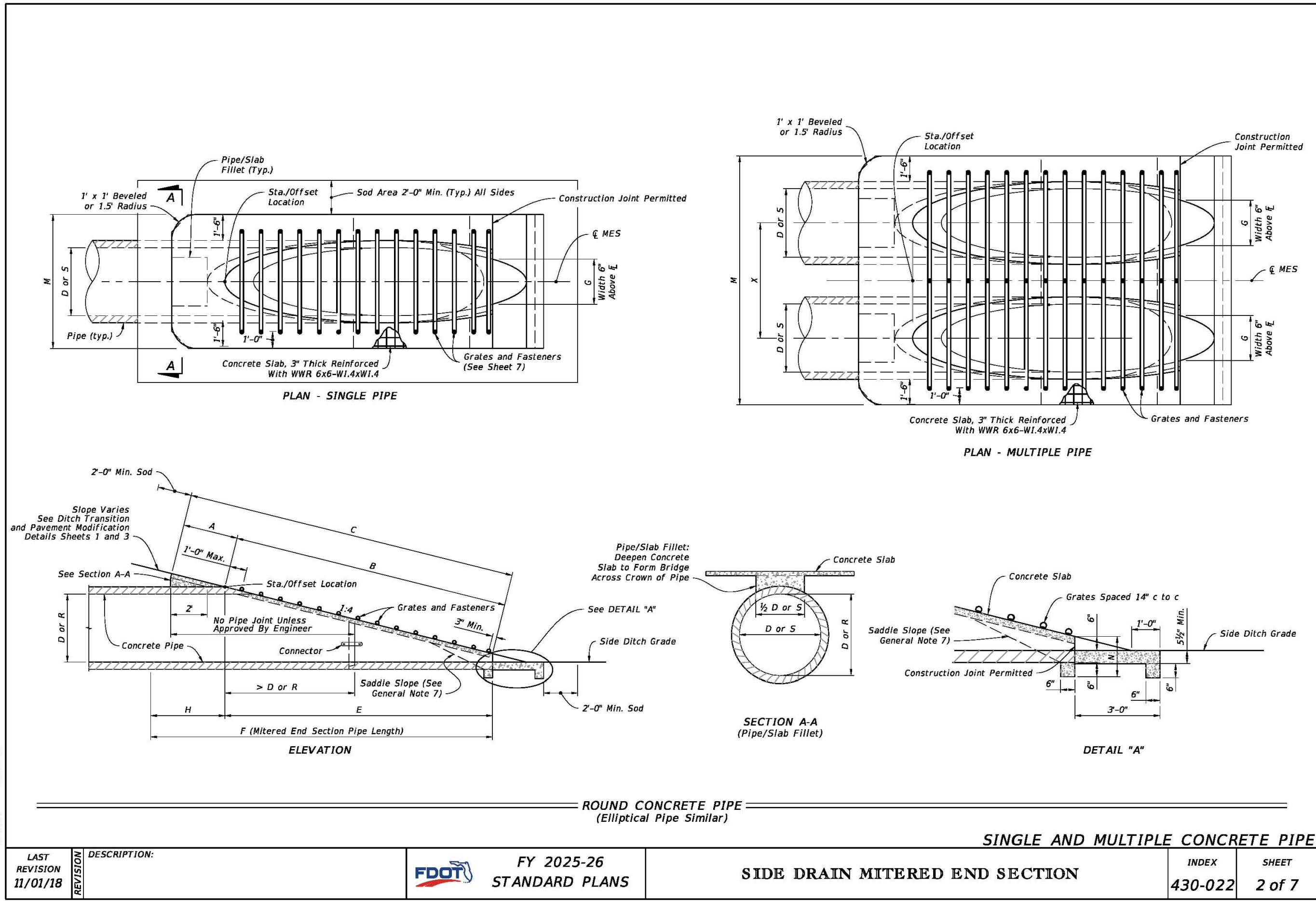
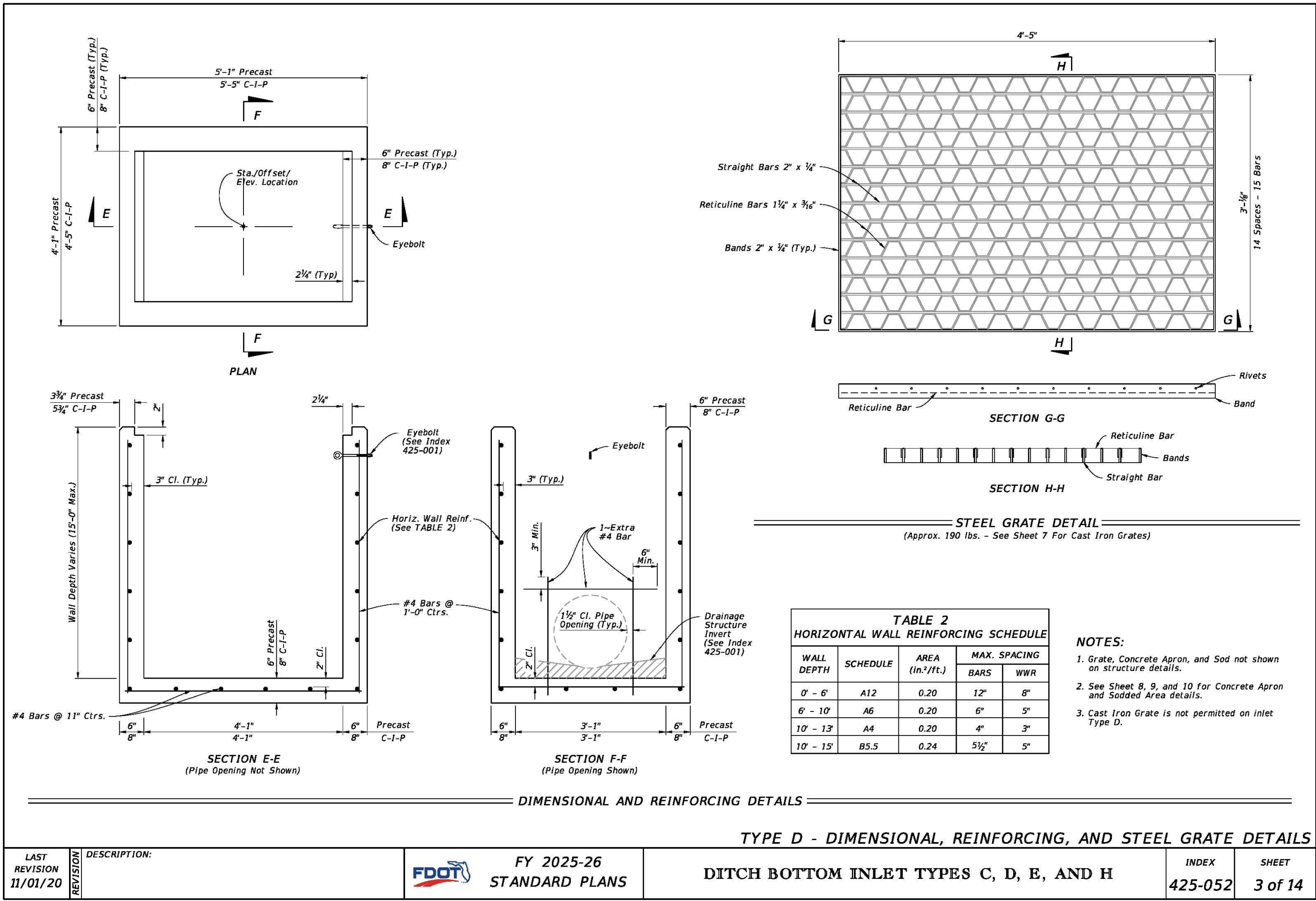
CHLORINE ROOM DETAIL
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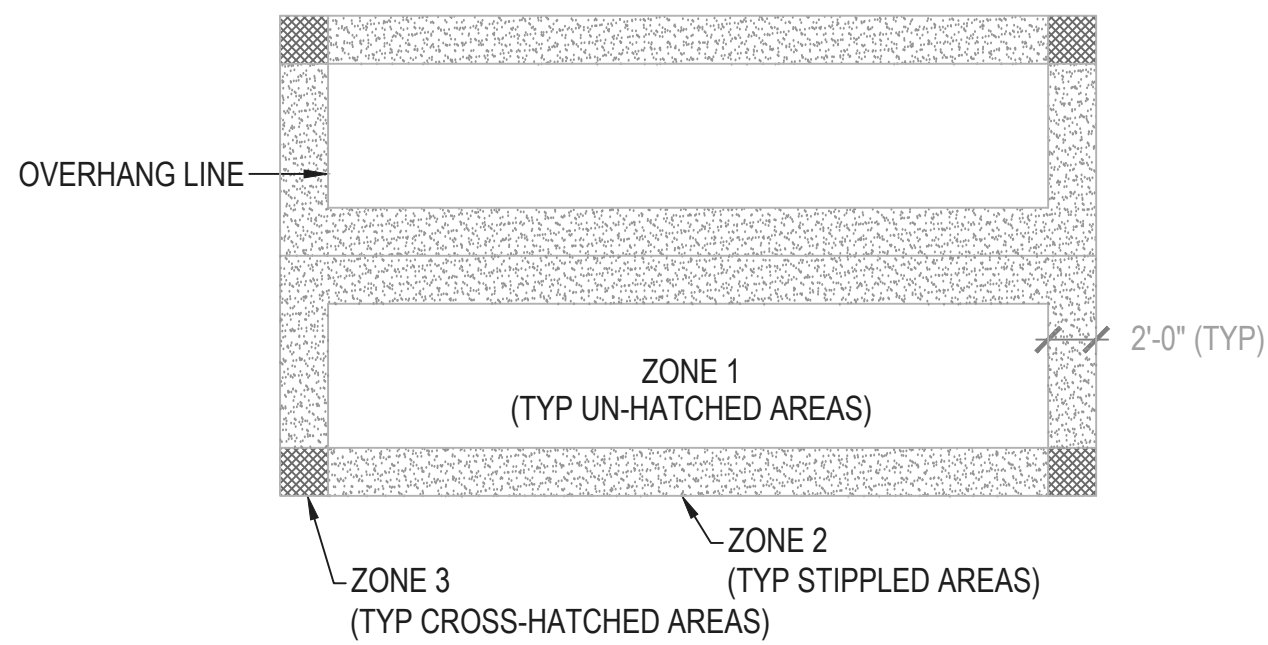
NOTES:
1. ALL WALL PENETRATIONS TO BE SEALED GAS & VAPOR TIGHT.
2. THE SECTION SHOWN ON THIS SCHEMATIC IS INTENDED TO SHOW KEY COMPONENTS OF THE CHEMICAL FEED EQUIPMENT AND GENERAL ORIENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY, IN COORDINATION WITH ITS SUPPLIERS AND ANY SUBCONTRACTORS, TO PROVIDE A FULLY FUNCTIONAL CHEMICAL FEED SYSTEM IN THE AREA DESIGNATED.
3. CONTRACTOR SHALL PROVIDE UNIONS ON RIGID PVC TO FACILITATE DISASSEMBLY WHETHER SHOWN OR NOT.
4. PIPE SHALL BE MOUNTED TO WALLS WITH CORROSION RESISTANT BRACKETS IN A NEAT AND WORKMANLIKE MANNER.

REVISION	

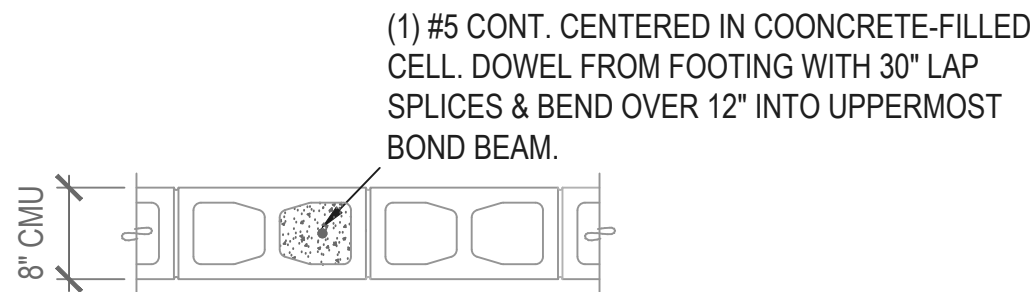
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JOB NUMBER: 190002-01
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DESIGNED BY: DEL
SHEET:

R:\MES\2019\190002-001 HWW Misc Water System Impr\dwg\Hot Well #4 and Tank\Sheets\90 C-700 Details.dwg, 6/16/2026 2:31:33 PM





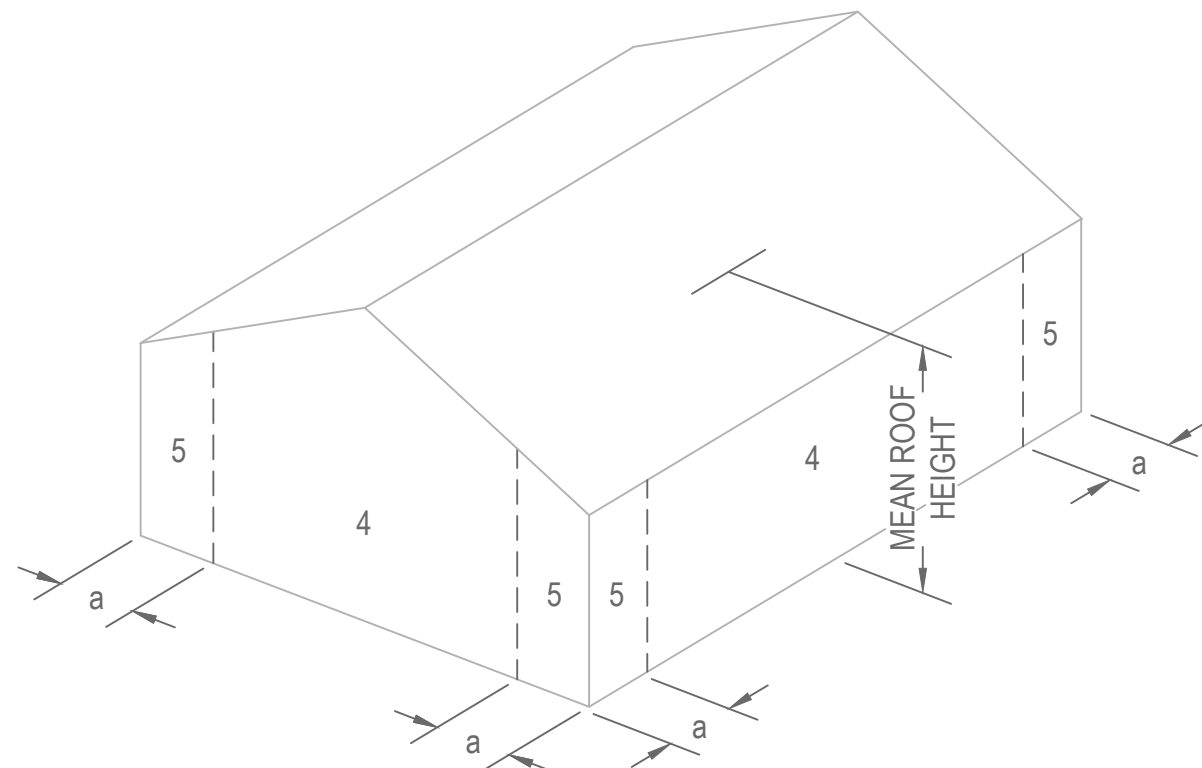
1 ROOF UPLIFT MAP
S101 NOT TO A SCALE



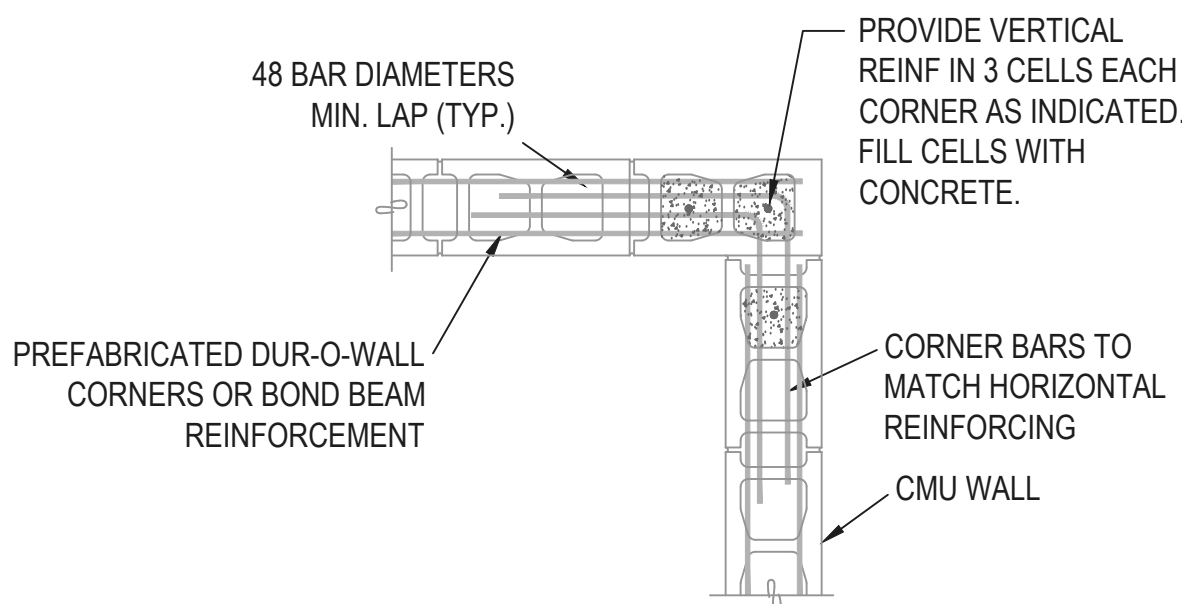
PROVIDE VERTICAL WALL REINFORCING AS FOLLOWS:

- AT 32" O.C. MAX SPACING IN ALL EXTERIOR CMU WALLS.
 - AT 32" O.C. MAX SPACING IN ALL INTERIOR CMU LOAD BEARING WALLS.
 - UNDER ALL BEAM BEARING LOCATIONS.
 - AT BOTH JAMBS OF ALL WALL OPENINGS.
 - MINIMUM 3 REINFORCED CELLS AT ALL CORNERS AND WALL INTERSECTIONS
- AS INDICATED THUS ON DRAWINGS.

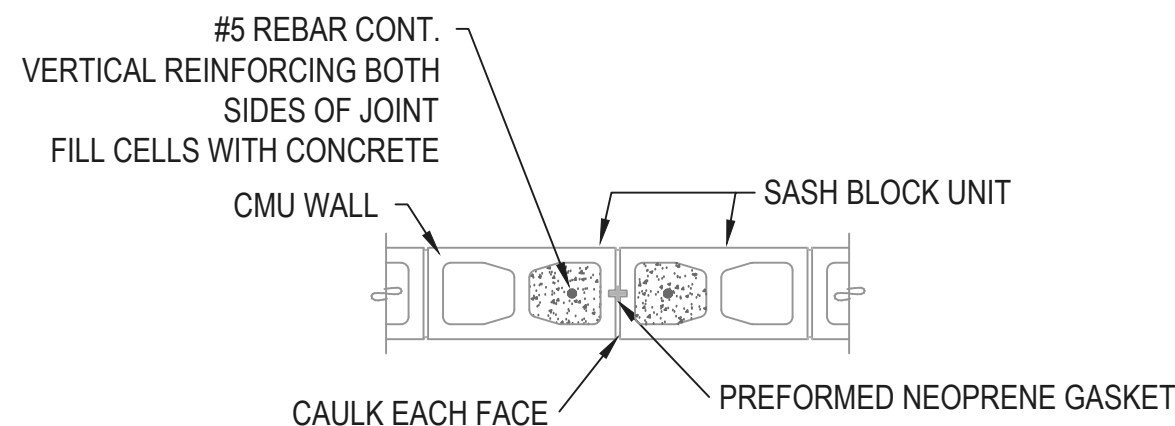
2 TYPICAL CMU WALL REINFORCING DETAIL
S101 SCALE: 3/4"=1'-0"



8 CLADDING AND WALL COMPONENT ISOMETRIC
S101 NOT TO A SCALE



3 TYPICAL CMU WALL INTERSECTION DETAIL
S101 SCALE: 3/4"=1'-0"



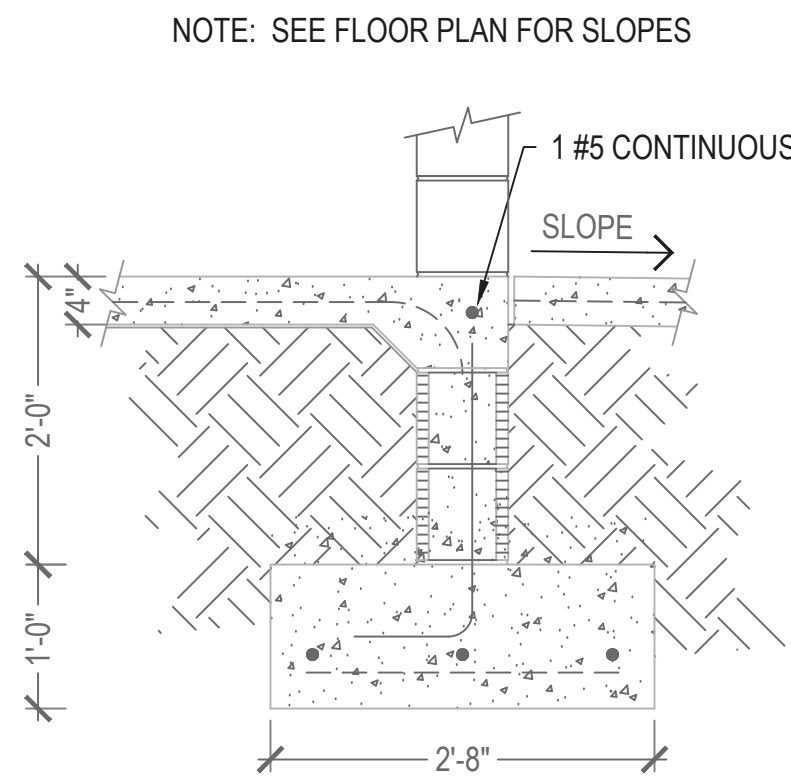
NOTE: PROVIDE VERTICAL WALL JOINTS IN LOCATIONS SHOWN ON FOUNDATIONPLAN

4 WALL CONTROL JOINT DETAIL
S101 SCALE: 3/4"=1'-0"

NOTES

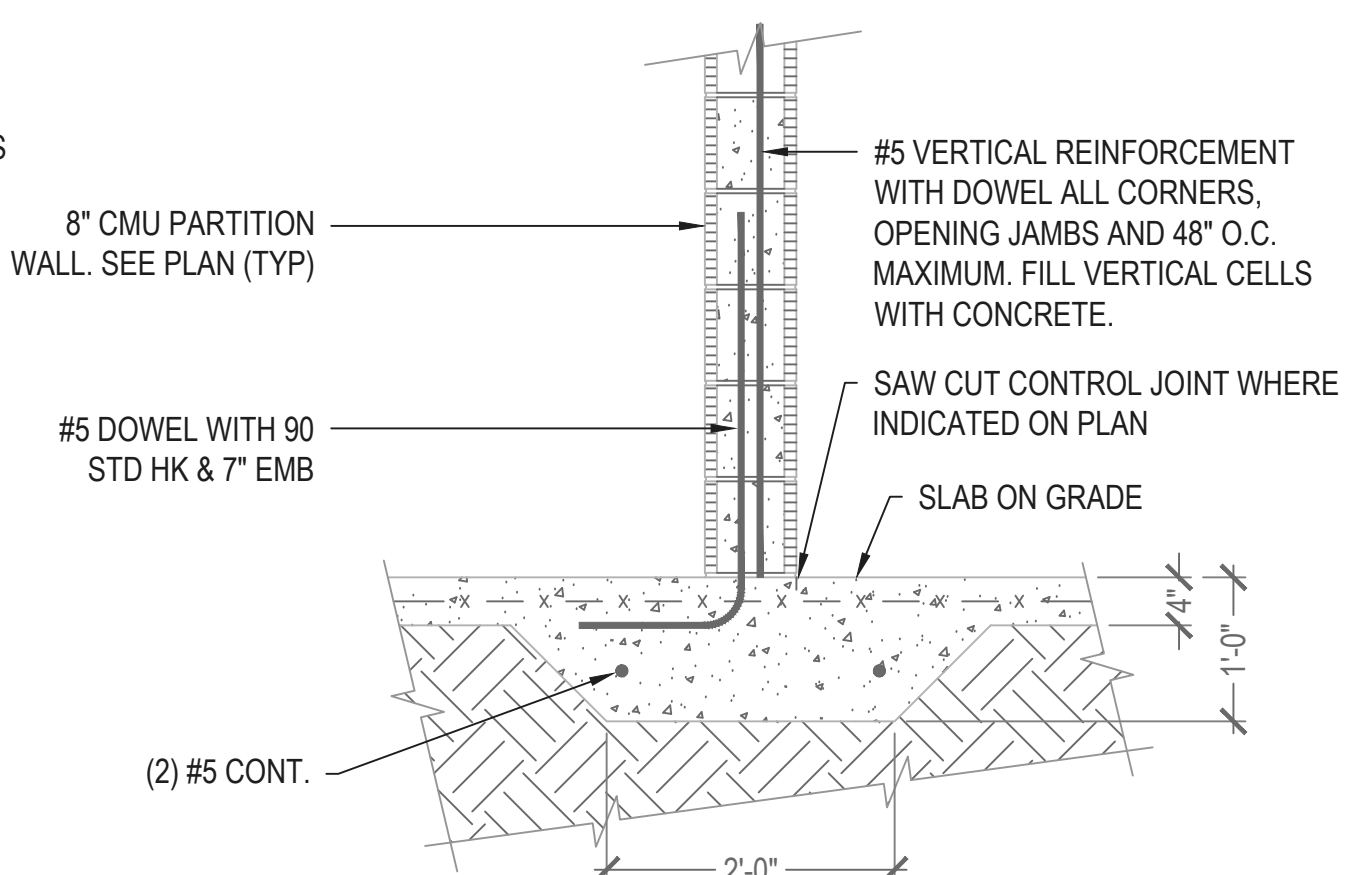
- 1) SEE SECTIONS FOR LINTELS OVER OPENINGS LONGER THAN 7'-4".
- 2) MINIMUM LINTEL END BEARING IS 8" FOR SPANS $\leq$ 7'-0" AND 16" OTHERWISE.
- 3) PROVIDE LINTELS OVER MECHANICAL OPENINGS IN WALLS.

5 TYPICAL MASONRY LINTEL DETAILS
S101 SCALE: 3/4"=1'-0"



SEE SECTION 1 / A311 FOR TYPICAL NOTES

6 SLAB EDGE AT DOOR
S101 SCALE: 3/4"=1'-0"



7 TYPICAL THICKENED SLAB DETAIL
S101 SCALE: 3/4"=1'-0"

MAXIMUM ROOF COMPONENT AND CLADDING ULTIMATE WIND PRESSURES

EFFECTIVE WIND AREA (SQ. FT)	ALL ZONES (+) PRESSURE (PSF)	ZONE 1 (-) PRESSURE (PSF)	ZONE 2 (-) PRESSURE (PSF)	ZONE 3 (-) PRESSURE (PSF)
10	22	-55	-67	-115
20	21	-53	-62	-105
50	19	-50	-56	-92
100	18	-48	-52	-82

MAXIMUM WALL COMPONENT AND CLADDING ULTIMATE WIND PRESSURES

EFFECTIVE WIND AREA (SQ. FT)	ALL ZONES (+) PRESSURE (PSF)	ZONE 4 (-) PRESSURE (PSF)	ZONE 5 (-) PRESSURE (PSF)
10	44	-48	-59
20	42	-46	-55
50	40	-43	-50
100	38	-41	-46
200	36	-39	-42
500	33	-37	-37

ULTIMATE WIND PRESSURE TABLE NOTES

- 1) LINEAR INTERPOLATION FOR INTERMEDIATE VALUES OF EFFECTIVE AREAS IS ACCEPTABLE. OTHERWISE, USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
- 2) ULTIMATE WIND LOAD PRESSURES ARE FOR USE IN LOAD COMBINATIONS LISTED IN FBC 2010 AND ASCE 7-10. THESE COMBINATIONS ARE LISTED IN FBC SECTION 1605 AND INCLUDE A WIND LOAD FACTOR OF 0.6 USING ALLOWABLE STRESS DESIGN. THEREFORE, ULTIMATE PRESSURES LISTED IN THE LOAD TABLE MAY BE REDUCED BY 40% WHEN USING ALLOWABLE STRESS DESIGN. REDUCED LOADS ARE THE "WORKING LOADS".
- 3) WIND PRESSURE ZONES 2, 3, & 5 ARE EDGE AND CORNER ZONES. WALL ZONE 5 IS WITHIN 3'-0" OF CORNERS. ROOF ZONE 2 IS WITHIN 3'-0" OF ROOF EDGES AND RIDGES. ROOF ZONE 3 IS AT ROOF CORNERS WITHIN 3'-0" OF ROOF CORNERS.
- 4) NET UPLIFT LOADS ARE CALCULATED FROM ALLOWABLE STRESS DESIGN LOAD COMBINATION $.6D + .6W$ WHERE $.6D = 6$ PSF

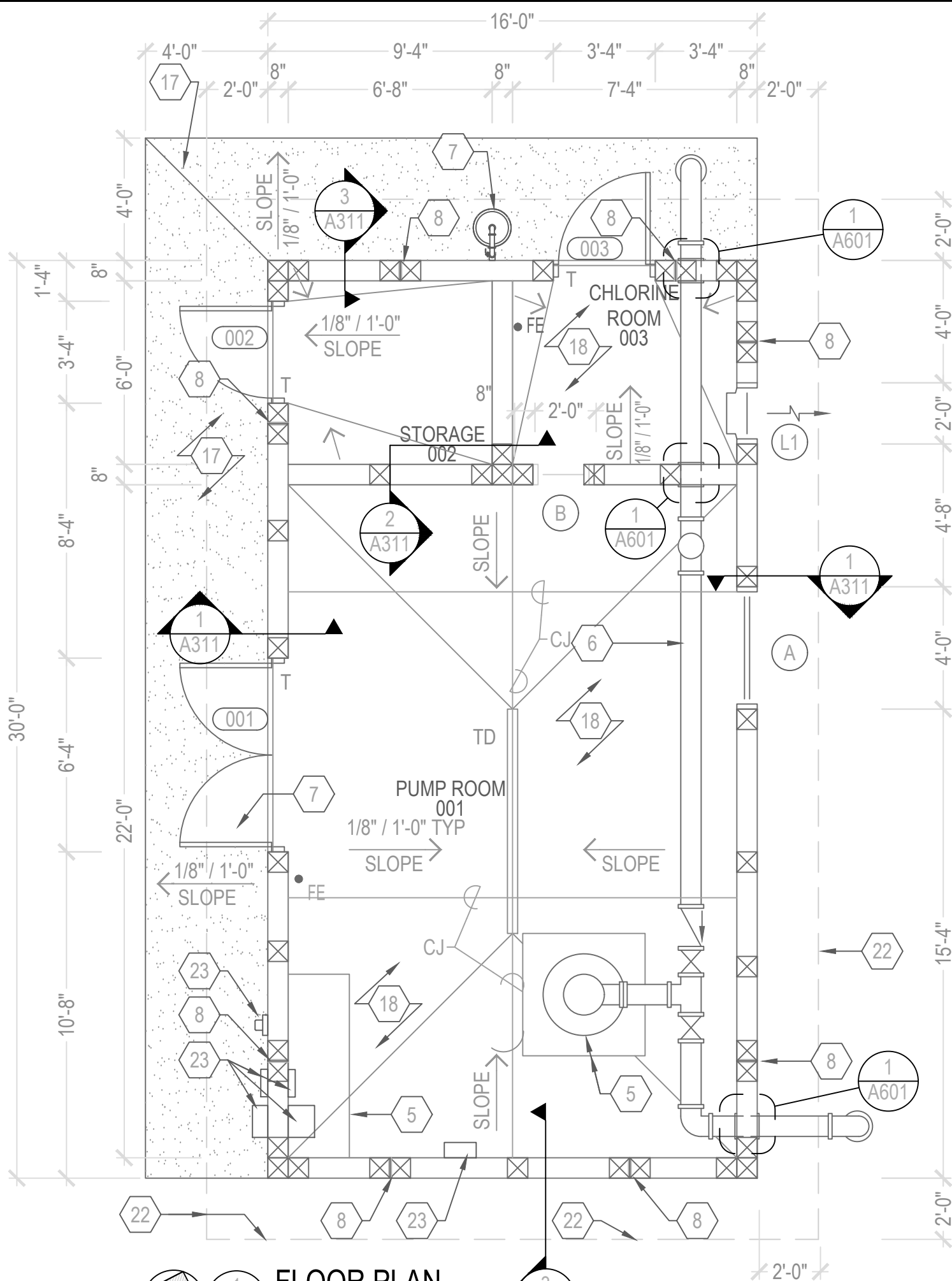
GENERAL STRUCTURAL NOTES

- 1) THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 8th EDITION (2023).
- 2) MATERIALS TO CONFORM TO THE FOLLOWING:
CONCRETE 3000 PSI AT 28 DAYS
BLOCK MASONRY $f' m = 1500$ PSI
CONCRETE MASONRY UNITS ASTM C90
MASONRY GROUT ASTM C476 (2000PSI AT 28 DAYS)
MASONRY MORTAR ASTM C270 (TYPE M)
REINFORCING STEEL ASTM A615 GRADE 60
WELDED WIRE FABRIC ASTM A185 FLAT SHEETS
EPOXY SIMPSON SET
PLYWOOD ROOF DECKING APA RATED EXP 1 OR EXT (PRESSURE TREATED)
- 3) STRUCTURES DESIGNED FOR WIND IN ACCORDANCE WITH ASCE 7-10 AS FOLLOWS:

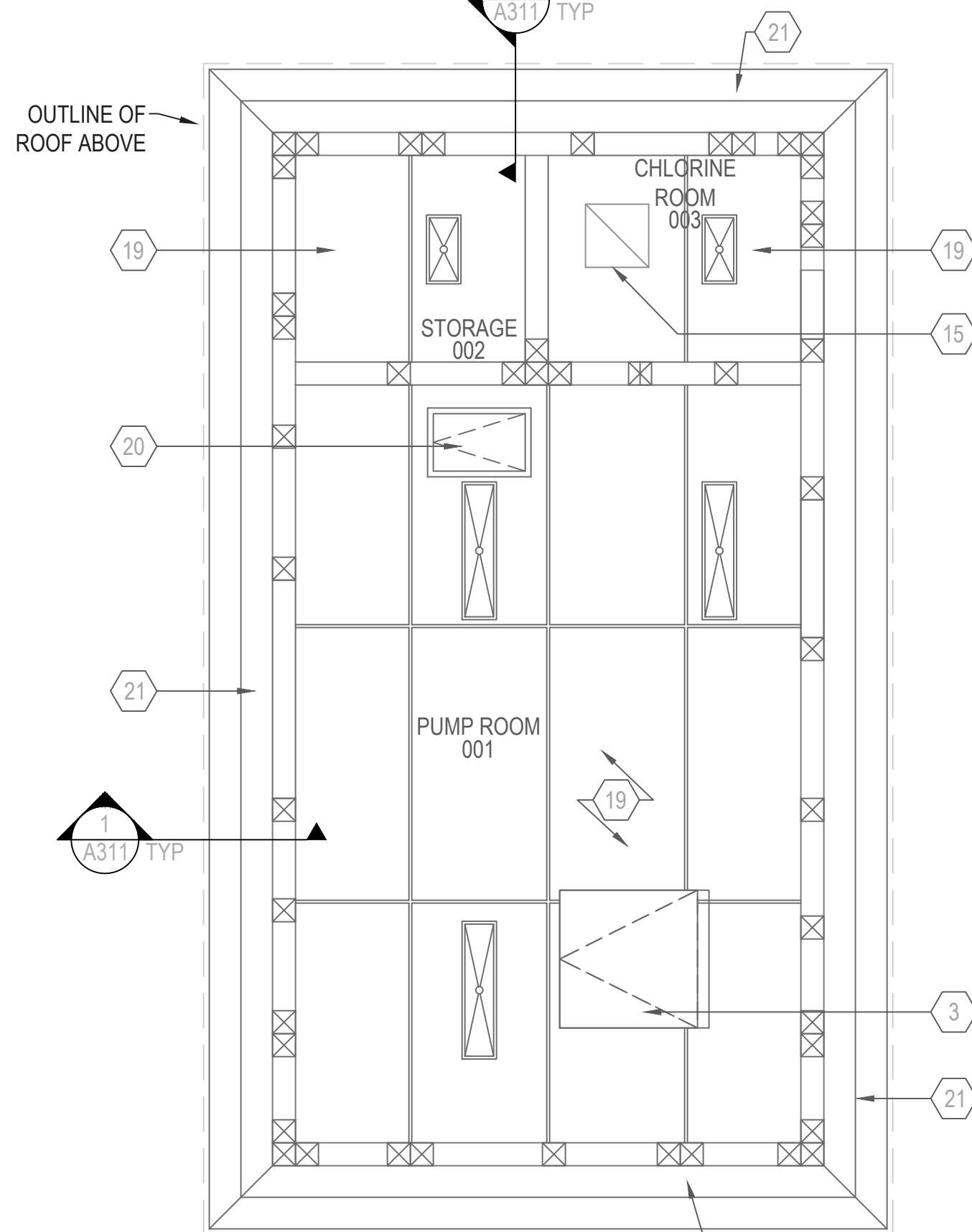
ULTIMATE DESIGN WIND SPEED = 160 MPH
NOMINAL DESIGN WIND SPEED = 124 MPH
RISK CATEGORY: III
WIND EXPOSURE = B
ENCLOSURE CLASSIFICATION = ENCLOSED
INTERNAL PRESSURE COEFFICIENT = +0.18
COMPONENT AND CLADDING FORCES AS SCHEDULED ON THIS SHEET
TORNADO DESIGN DATA - N/A FOR RISK CAT II
- 4) PREPARE SOIL BENEATH FOOTINGS AND SLAB IN ACCORDANCE WITH RECOMMENDATIONS OF STANDARD GEOTECHNICAL ENGINEERING PRACTICES, AND IN ACCORDANCE WITH RECOMMENDATIONS CONTAINED IN PROJECT GEOTECHNICAL REPORT LMJ FILE #24-152. PREPARED BY LARRY M. JACOBS, WITH COMPACTION TO 95% MODIFIED PROCTOR. REMOVE ALL UN-SUITABLE MATERIALS FOUND AND REPLACE WITH SANDY CLAY. ASSUMED SAFE SOIL BEARING: 2,000 PSF
- 5) ALL ELEVATIONS REFERENCED ON THE STRUCTURAL DRAWINGS ARE ABOVE OR BELOW A FINISHED FLOOR ELEVATION OF +0'-0". SEE CIVIL SITE GRADING PLAN FOR THE ACTUAL ELEVATION.
- 6) PLACE REINFORCING IN CONCRETE IN ACCORDANCE WITH ACI 315 WITH A MINIMUM OF 3" CLEAR COVER WHEN CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH. PROVIDE CORNER BARS FOR ALL CONTINUOUS HORIZONTAL REINFORCING.
- 7) COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- 8) PRE-ENGINEERED TIMBER TRUSS MANUFACTURER SHALL SUBMIT SIGNED & SEALED SHOP DRAWINGS FOR ROOF TRUSSES TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW & APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE ALL DETAILS NECESSARY FOR A COMPLETE JOB INCLUDING CONNECTIONS, MEMBERS, BRIDGING AND BRACING DETAILS, AND OTHER ITEMS AS NOTED ON THESE DRAWINGS.
- 9) ALL EXTERIOR WOOD AND ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED AND RATED FOR SUCH USE.
- 10) ALL FRAMING CONNECTORS SHALL BE SIMPSON STRONG TIE MODELS SPECIFIED OR APPROVED EQUIVALENT INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS WITH THE SIZE AND QUANTITY OF FASTENERS REQUIRED TO ACHIEVE THE MAXIMUM LOAD CAPACITY. PROVIDE SIMPSON Z-MAX GALVANIZED COATING (MINIMUM) AND GALVANIZED OR COATED FASTENERS WHEN ANCHORED TO TREATED WOOD.
- 11) FASTEN ROOF SHEATHING TO FRAMING WITH 0.148" x 2 1/2" RING SHANK NAILS SPACED AT 6" O.C. ALONG PANEL EDGES AND AT 6" O.C. ALONG INTERIOR SUPPORTS. ORIENT SHEATHING WITH THE LONG DIMENSION PERPENDICULAR TO FRAMING WITH PANELS CONTINUOUS ACROSS TWO SPANS MINIMUM AND LOCATE ALL PANEL ENDS OVER FRAMING WITH STAGGERED JOINTS. PROVIDE 2x CONTINUOUS BLOCKING AT ALL PANEL ENDS (NOT SIDE EDGES) OTHERWISE NOT SUPPORTED. PROVIDE CONTINUOUS 2x BLOCKING AND FASTEN SHEATHING ALONG ALL PANEL SIDE EDGES WITHIN 4'-0" OF ALL ROOF EAVES, HIPS, AND RIDGES.

REVISION		

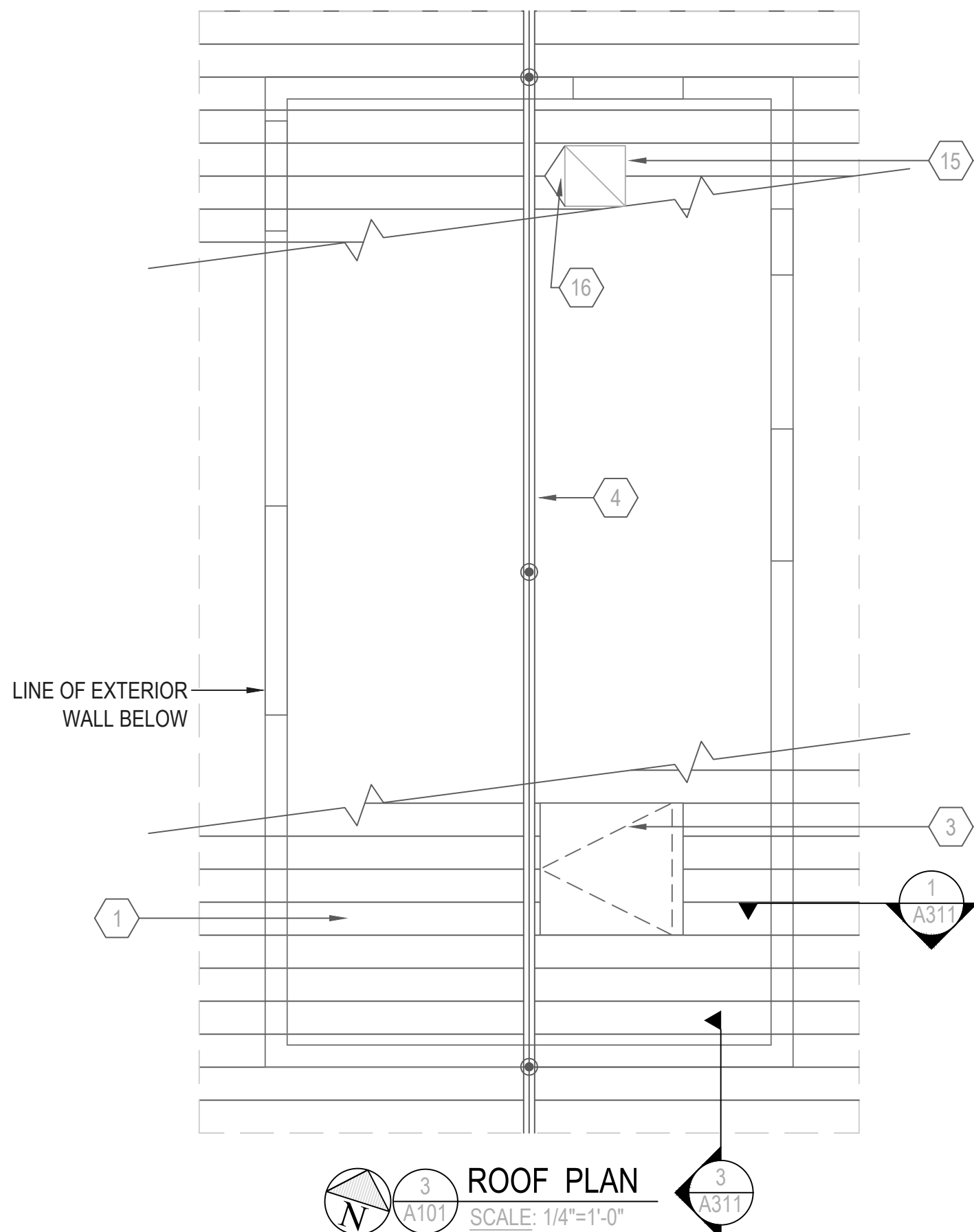
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JOB NUMBER: 190002-02
FILENAME: SEE LEFT
DRAWN BY: _____
DESIGNED BY: _____



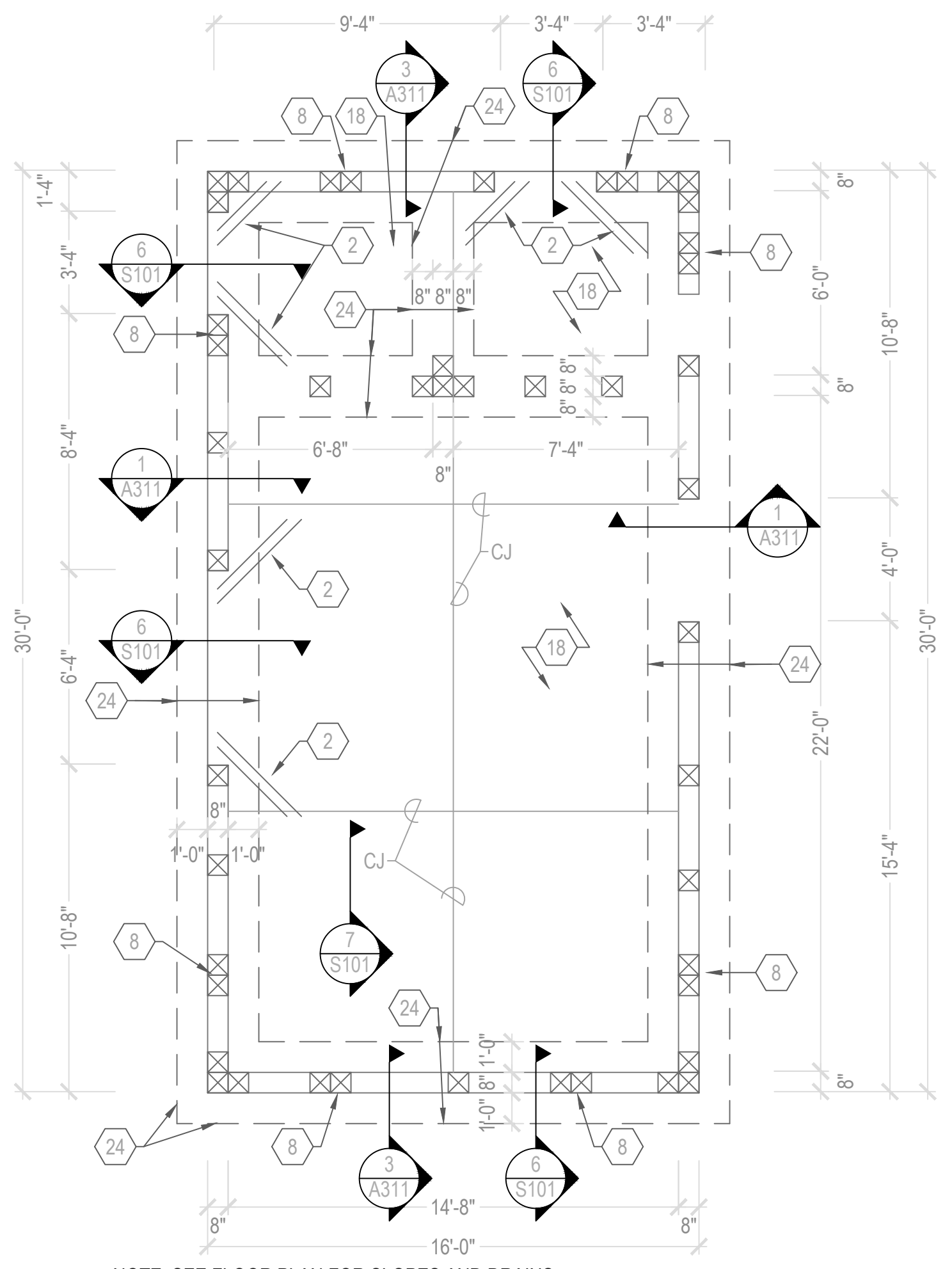
FLOOR PLAN
SCALE: 1/4"=1'-0"



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

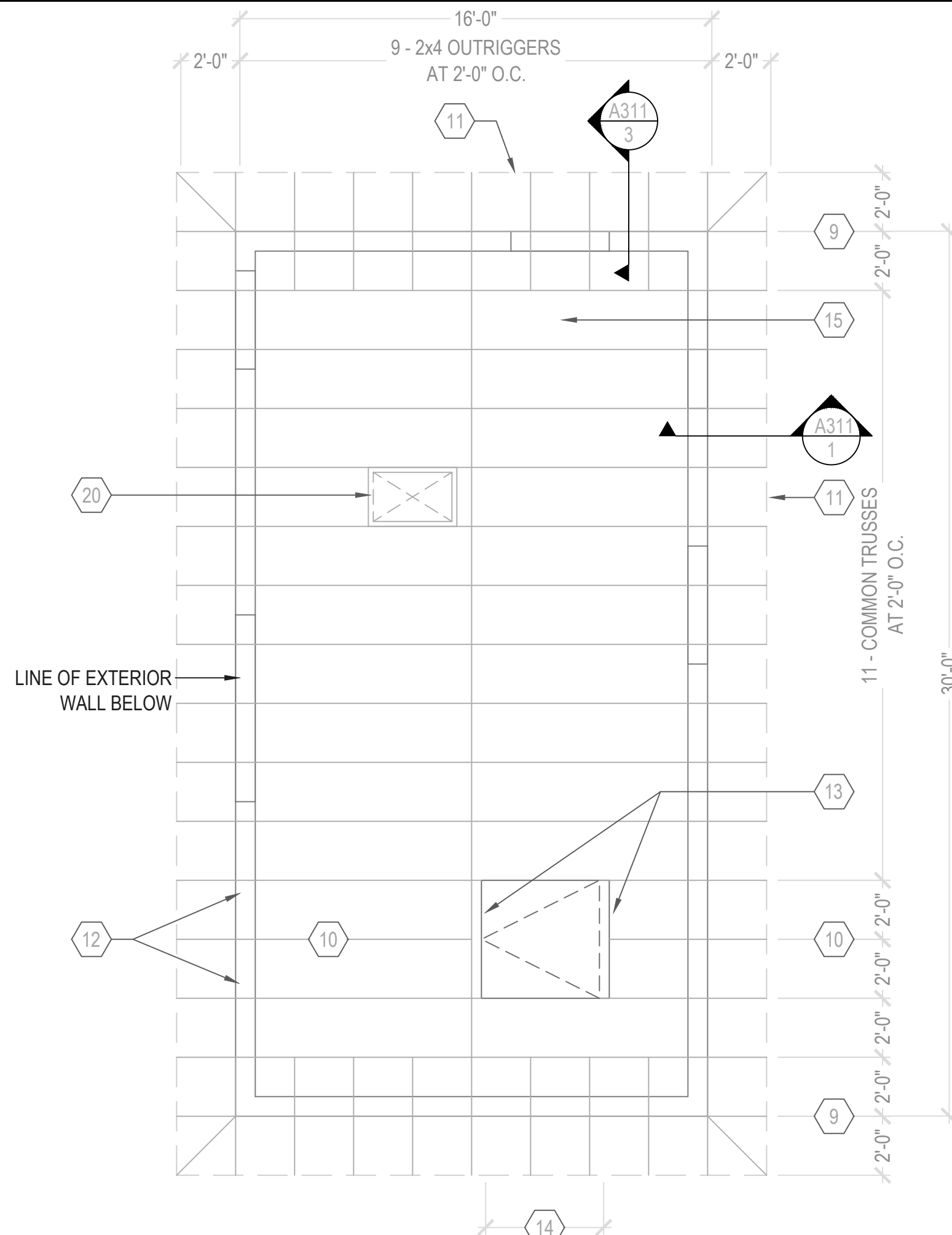


ROOF PLAN
SCALE: 1/4"=1'-0"



NOTE: SEE FLOOR PLAN FOR SLOPES AND DRAINS

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



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

ROOF FRAMING NOTES

- TYPICAL ROOF CONSTRUCTION AS FOLLOWS: 5/8" PLYWOOD ROOF SHEATHING OVER PRE-ENGINEERED WOOD TRUSSES AT 24" (MAX) O.C. SEE NOTE 11 ON S101 FOR FASTENERS & BLOCKING REQUIREMENTS.
- ANCHOR EACH TRUSS TO PLATE WITH SIMPSON HURRICANE ANCHOR AS FOLLOWS UNLESS NOTED OTHERWISE:

COMMON TRUSSES	H10 AT EXT BEARING WALL
JACK TRUSSES	H10
HIP JACKS	H2.5T
HIP/VALLEY SET TRUSSES	VTC AT 24" O.C.
GIRDER TRUSS	LGT (MATCH NO. OF TRUSS PLY)

- ROOF TRUSS DESIGN LOADS AS FOLLOWS:

TOP CHORD:	
DEAD LOAD:	15 PSF
LIVE LOAD:	20 PSF (REDUCIBLE PER FBC 8 th EDITION)
BOTTOM CHORD:	
DEAD LOAD:	10 PSF
LIVE LOAD:	0 PSF

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THIS SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

THE ABOVE NAMED PROFESSIONAL ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET INDEX

S101	STRUCTURAL NOTES & DETAILS
A101	ARCHITECTURAL PLANS
A102	EMERGENCY GENERATOR COVER PLANS & ELEVATIONS
A103	EMERGENCY GENERATOR DETAILS
A201	ELEVATIONS
A311	WALL SECTIONS
A601	SCHEDULES & DETAILS
A602	DOOR & WINDOW DETAILS

KEYNOTES

- STANDING SEAM PRE-FINISHED 24 GA. GALVANIZED METAL ROOFING ON SELF-ADHEREING ASPHALTIC UNDERLAYMENT ON 5/8" APA STRUCTURAL-GRADE PLYWOOD.
- (2) #5 RE-ENTRANT CORNER REINFORCING. CENTER IN SLAB, SPACE 12" APART.
- 4'-0" x 4'-0" STORM RATED, PRE-FINISHED ALUMINUM ROOF HATCH & CURB, CENTER OVER PUMP--PROVIDE 24GA SHAFT FROM ROOF TO CEILING. PROVIDE BLOCKING AS REQUIRED. SEE DETAIL 2/A601.
- 24 GA. GALVANIZED, PRE-FINISHED STEEL RIDGE CAP.
- 4" HIGH CONCRETE PAD, PUMP MOTOR, ETC. BY OTHERS. PAINT YELLOW. COORDINATE DIMENSIONS WITH EQUIPMENT.
- WATER PIPE & STANDS, SEE MECHANICAL.
- EYE WASH, SEE CIVIL.
- MASONRY EXPANSION JOINT, TYPICAL OF (8), SEE DETAIL 4 / S101
- GABLE END TRUSS.
- JACK TRUSS.
- 2x8 P.T. RIM BOARD, CONT., PAINT
- REINFORCE COMMON TRUSS AS REQUIRED FOR ROOF HATCH LOAD.
- DOUBLE 2x8 HEADER. PROVIDE ADDITIONAL BLOCKING AS REQUIRED.
- COORDINATE OPENING WITH ROOF HATCH DIM.
- 22"x22" FRESH AIR INTAKE: PROVIDE 24 GA GI DUCT FROM ROOF TO CEILING. SEAL TO FINISH CEILING. PROVIDE BLOCKING AS REQUIRED. SEE MECHANICAL.
- 24 GA PRE-FINISHED GALVANIZED STEEL CRICKET
- 4", 3000 PSI CONCRETE SLAB WITH 8" TURN-DOWN EDGE, LIGHT BROOM FINISH, SEE CIVIL.
- 4", 3000 PSI CONCRETE SLAB ON 15 MIL POLYOLFIN VAPOR BARRIER, SMOOTH TROWEL FINISH, SLOPE AS INDICATED.
- 1/2" A/C PLYWOOD: SEAL ALL JOINTS AIR TIGHT. PROVIDE BLOCKING AT ALL UN-SUPPORTED JOINTS, 1 x 2 BATTENS AT EACH JOINT, PAINT
- 2'-0" x 3'-0" PRE-FINISHED STEEL CEILING HATCH: PROVIDE BLOCKING AS REQUIRED.
- 1/4" x 12" SMOOTH-FACED VENTILATED CEMENTITIOUS WOOD-FIBER SOFFIT (HARDIE "VENTILATED PLUS"--SMOOTH), PAINT.
- LINE OF ROOF OVERHEAD
- ELECTRICAL EQUIPMENT, SEE ELECTRICAL
- LINE OF FOUNDATION BELOW

LEGEND

- LIGHTNING PROTECTION AERIAL
- LIGHT FIXTURE, SEE ELECTRICAL
- LIGHT FIXTURE, SEE ELECTRICAL
- FIBERGLASS IMPACT RATED DOOR & FRAME, PAINT.
- CJ -- 1/8" X 1/4"D SAWN CONTROL JOINT. SAW JOINT UNDER WALL
- 7" ALUMINUM THRESHOLD
- VINYL WINDOW, SINGLE PANE.
- VINYL SINGLE HUNG, DOUBLE INSULATED IMPACT RATED WINDOW
- ALUMINUM STORM RATED LOUVER WITH EXHAUST FAN, SEE MECHANICAL.
- TD -- CAST IRON TRENCH DRAIN.
- FE • 10 LB. ABC WALL MOUNTED FIRE EXTINGUISHER.

ARCHITECTURAL PLANS

As-Built Record Drawing
by _____ Date _____

NOT Released for Construction
by _____ Date _____

WELL #4 AND ELEVATED TANK FOR HOLT WATER WORKS, INC

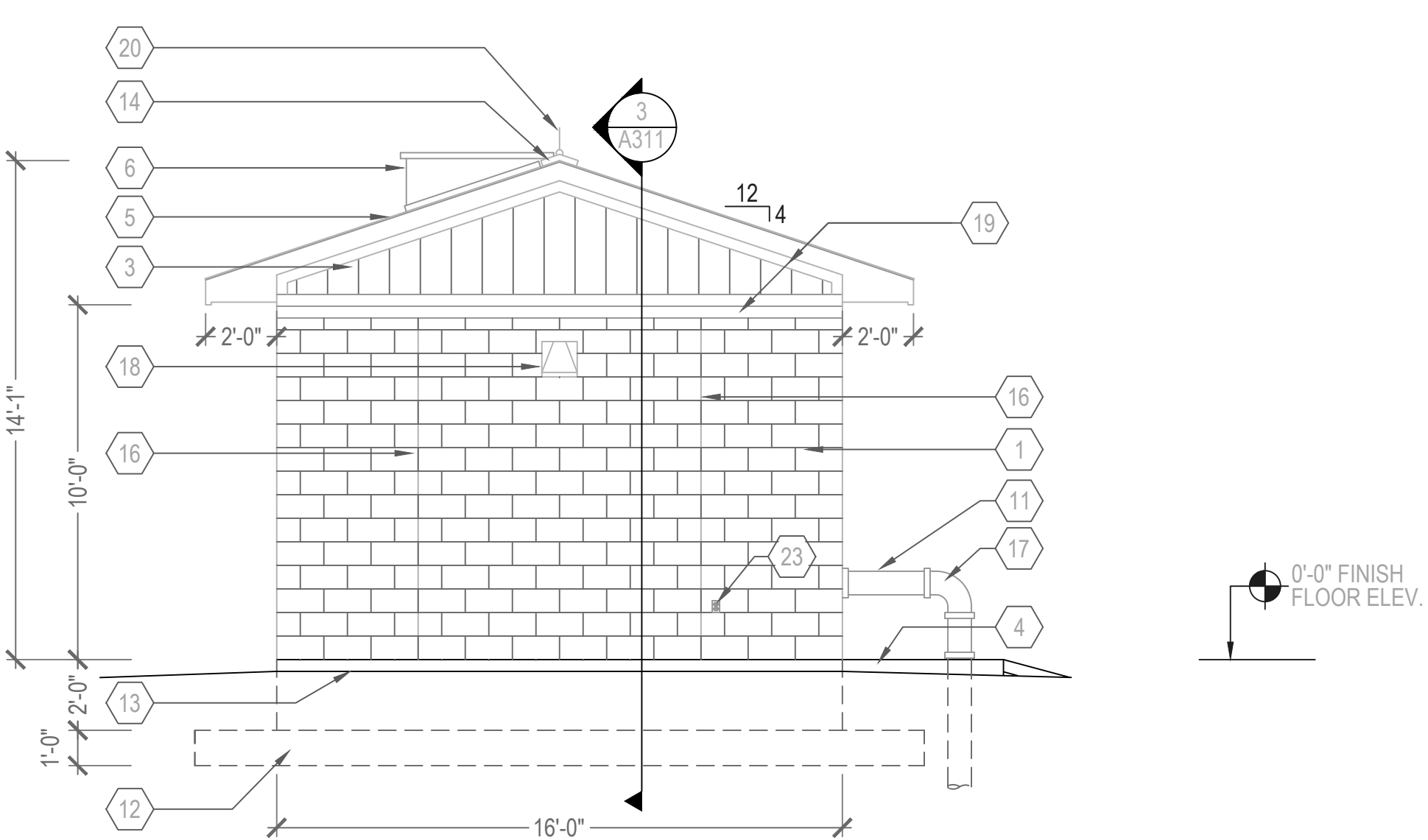
FLORIDA

OKALOOSA COUNTY

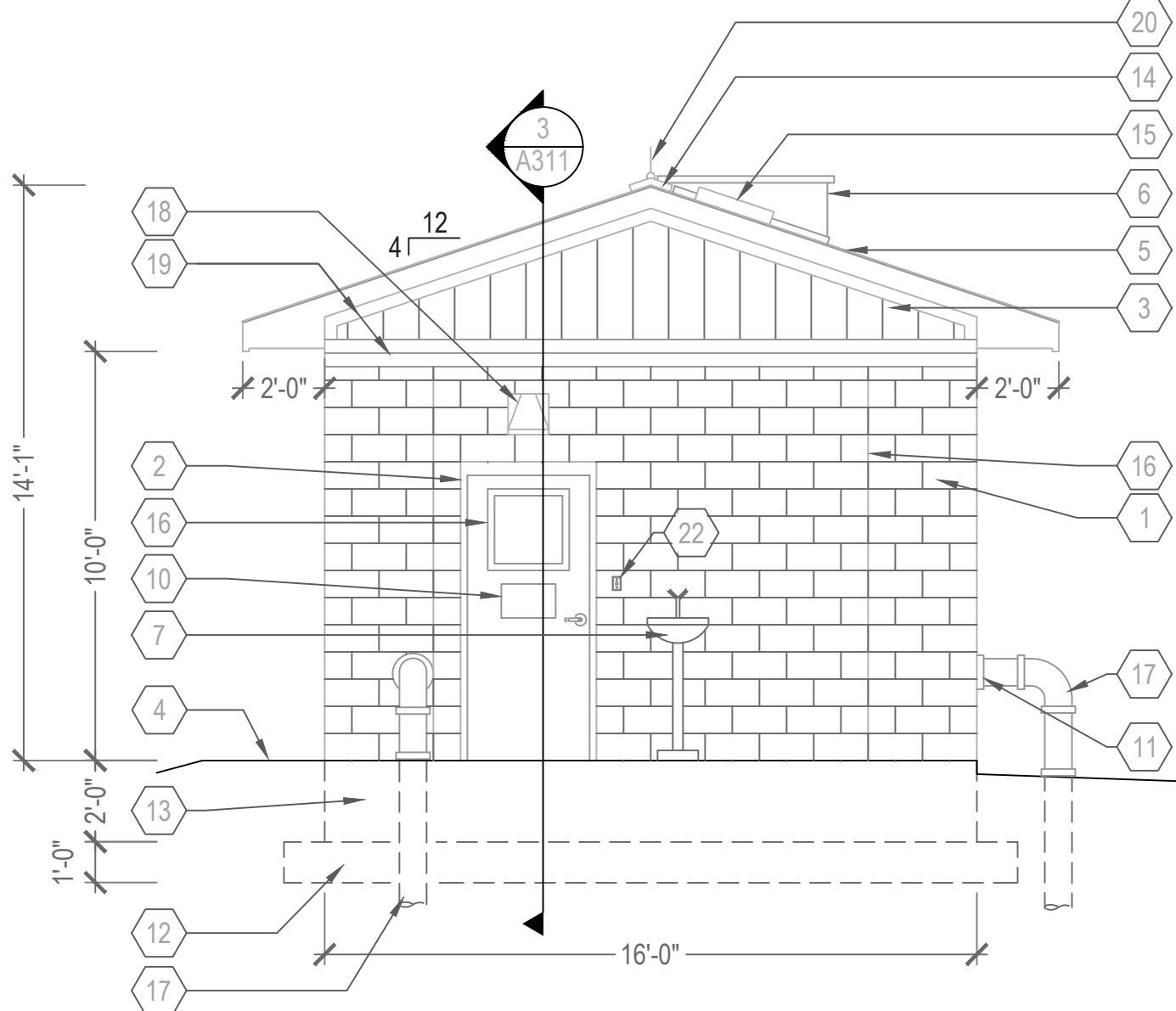
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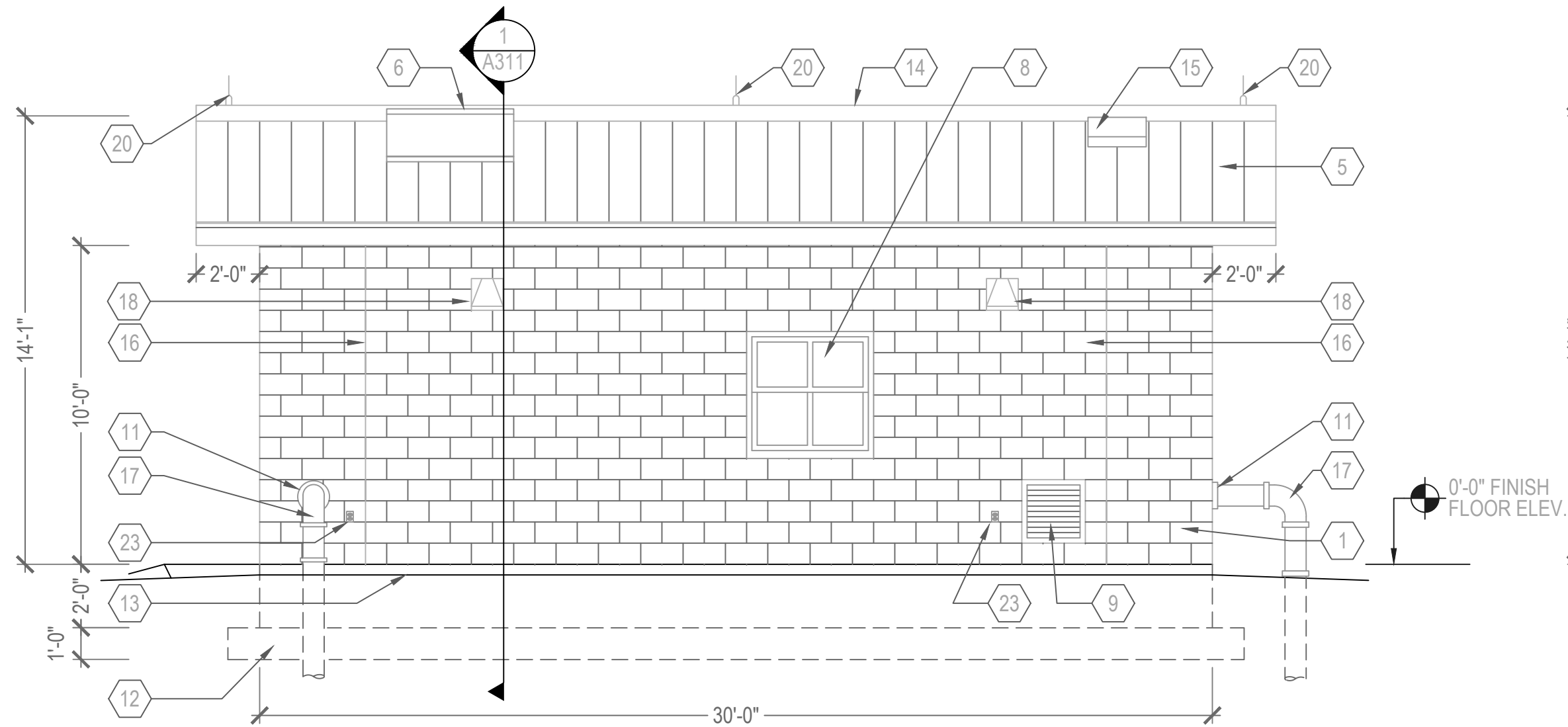
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A101



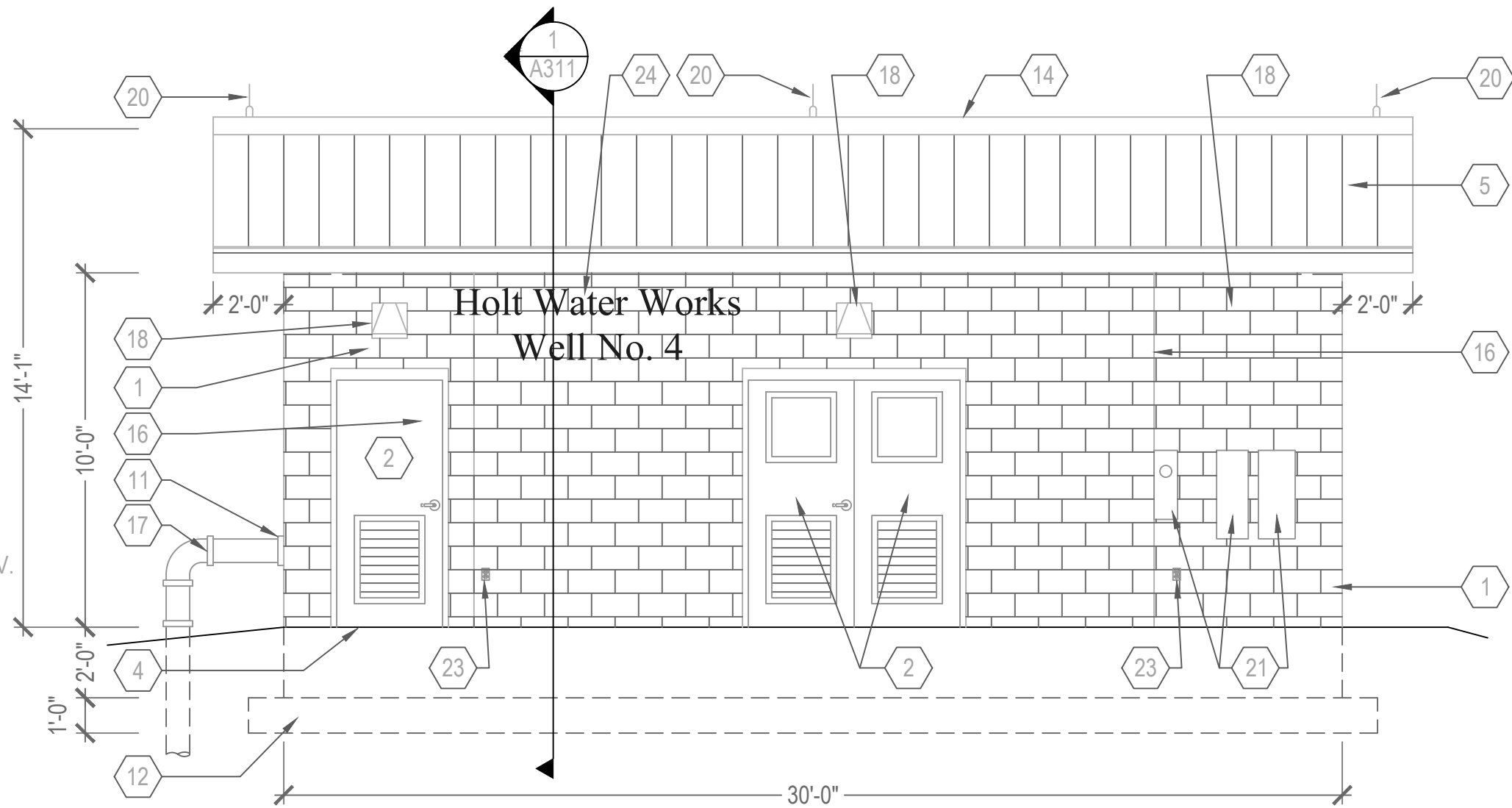
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A201
EXTERIOR ELEVATION--SOUTH
SCALE: 1/4"=1'-0"



2
A201
EXTERIOR ELEVATION--NORTH
SCALE: 1/4"=1'-0"



3
A201
EXTERIOR ELEVATION--EAST
SCALE: 1/4"=1'-0"



4
A201
EXTERIOR ELEVATION--WEST
SCALE: 1/4"=1'-0"

KEYNOTES

- 1 8" CMU, 100% SOLIDS ACRYLIC EXTERIOR ENAMEL PAINT, BOTH SIDES.
- 2 PRE-FINISHED FIBERGLASS DOOR & FRAME.
- 3 T1-11 SIDING, 3/4", PAINT.
- 4 LINE OF CONCRETE SIDEWALK, SLOPE 1/8" / 1'-0" TO DRAIN AWAY FROM BUILDING. SEE CIVIL.
- 5 STANDING SEAM PRE-FINISHED 24 GA. GALVANIZED METAL ROOFING.
- 6 4'-0" x 4'-0" STORM RATED, PRE-FINISHED STEEL ROOF HATCH & CURB, CENTER OVER PUMP.
- 7 FREEZE-PROOF EMERGENCY EYE WASH, SEE PLUMBING.
- 8 VINYL SINGLE HUNG, DOUBLE INSULATED IMPACT RATED WINDOW.
- 9 2'-0" x 2'-0" x 4" ALUMINUM STORM RATED LOUVER WITH EXHAUST FAN, SEE MECHANICAL, MOUNT WITH BOTTOM EDGE OF LOUVER AT 8" AFF.
- 10 OSHA APPROVED SIGN - "DANGER - CHLORINE"
- 11 SEE DETAIL 1/A601 FOR PIPE PENETRATION SLEEVE DETAIL
- 12 LINE OF CONCRETE FOUNDATION
- 13 CEMENT PARGE ON CMU BELOW FINISH FLOOR LINE TO TOP OF FOUNDATION. PROVIDE BITUMINOUS DAMP-PROOFING BELOW GRADE.
- 14 24GA. GALVANIZED, PRE-FINISHED STEEL RIDGE VENT / CAP
- 15 22"x22" FRESH AIR INTAKE, SEE MECHANICAL.
- 16 MASONRY WALL CONTROL JOINT, TYPICAL OF (8). SEE DETAIL 4 / S101.
- 17 WATER LINE: SEE MECHANICAL & CIVIL DRAWINGS.
- 18 EXTERIOR LIGHT FIXTURE: SEE ELECTRICAL.
- 19 1"x8" P.T. TRIM, PAINT
- 20 LIGHTENING PROTECTION AERIAL, SEE ELECTRICAL, TYPICAL OF (3).
- 21 ELECTRICAL CABINETS, SEE ELECTRICAL
- 22 ELECTRICAL SWITCH
- 23 ELECTRICAL POWER OUTLET
- 24 10" ALUMINUM LETTERS

ELEVATIONS

WELL #4 AND ELEVATED TANK
FOR
HOLT WATER WORKS, INC

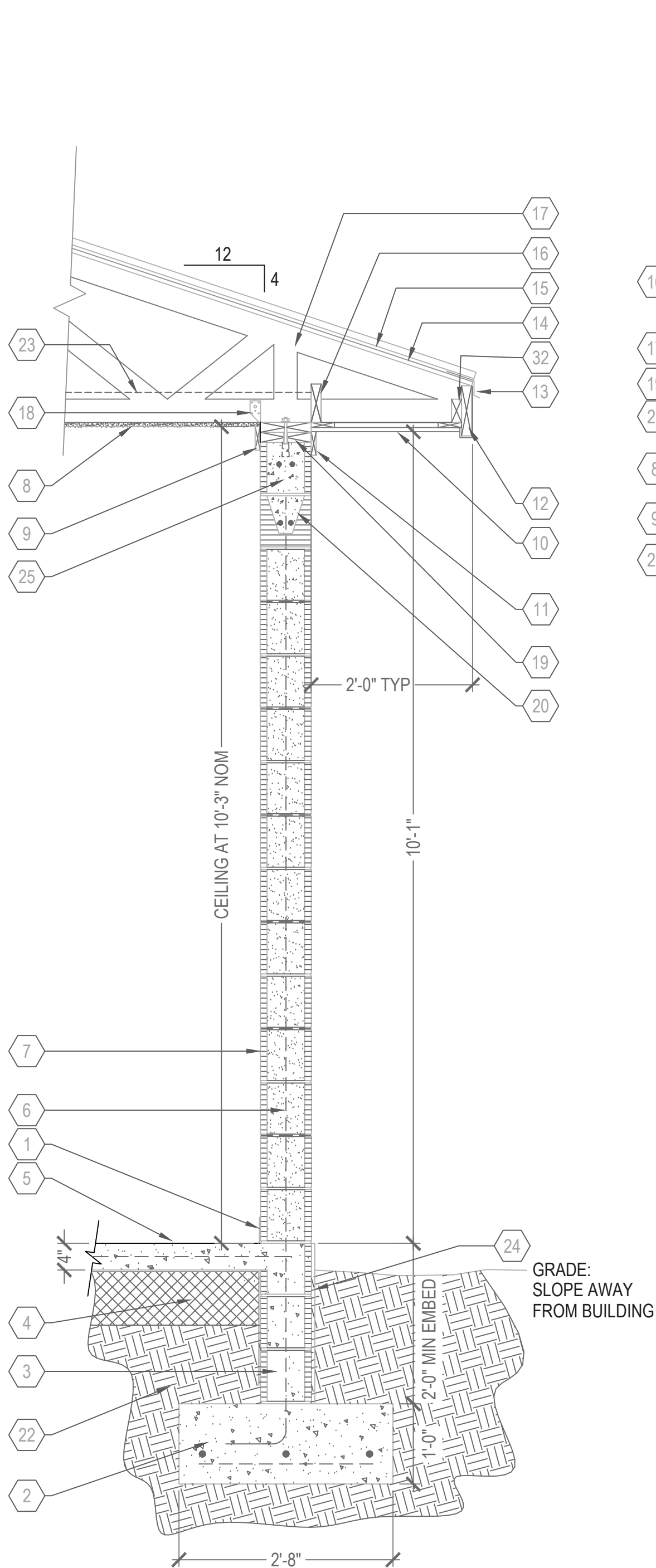
FLORIDA

OKALOOSA COUNTY

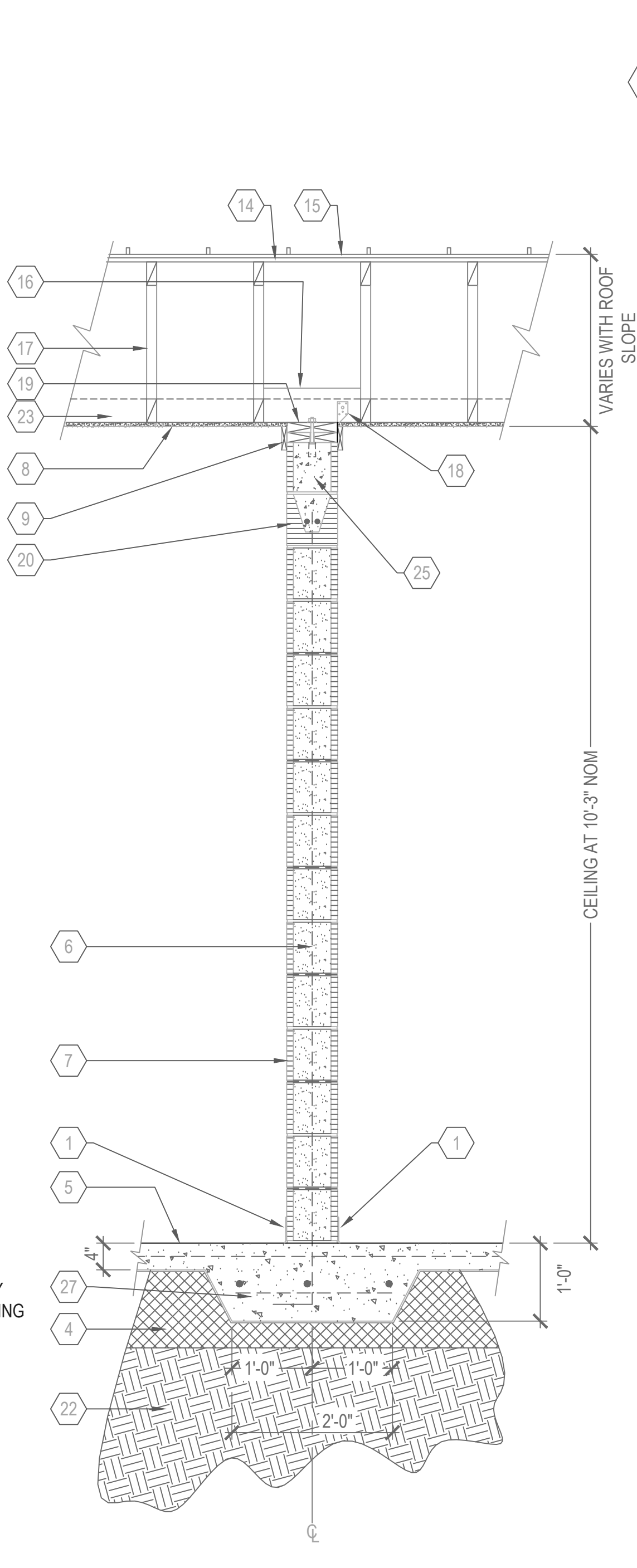
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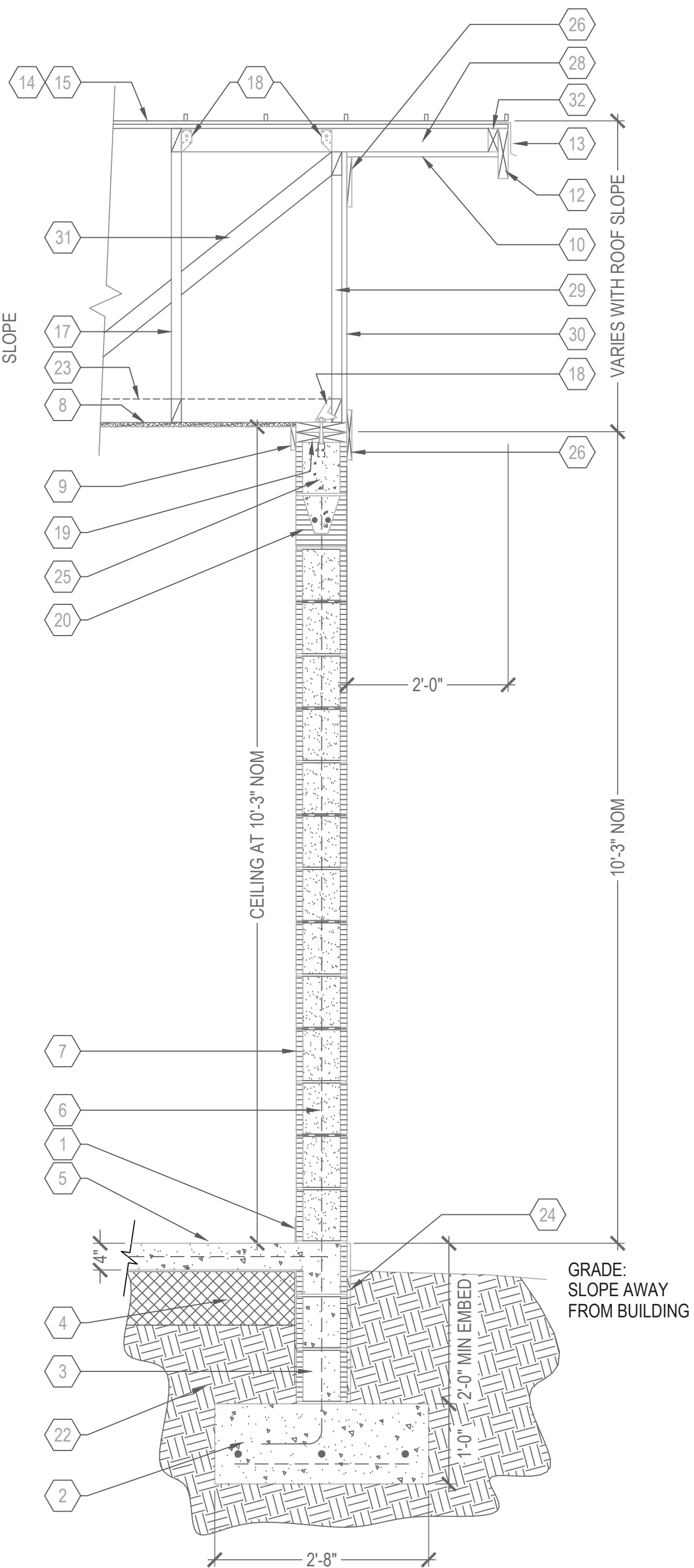
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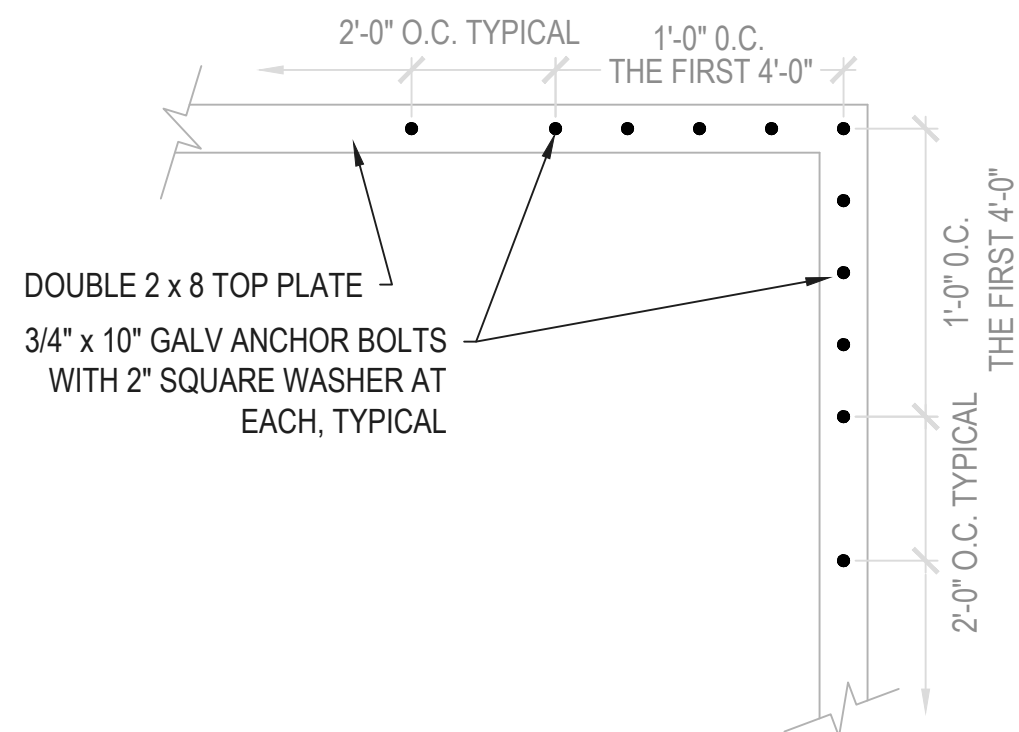
1 EXTERIOR WALL SECTION
SCALE: 3/4"=1'-0"



2 INTERIOR WALL SECTION
SCALE: 3/4"=1'-0"
TYPICAL OF ALL INTERIOR WALLS



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



4 ANCHOR BOLT PATTERN
NOT TO A SCALE
FOR EACH CORNER, TYPICAL

- KEYNOTES
- 8" EPOXY PAINT BASE
 - 3000 PSI CONCRETE FOUNDATION WITH (3) #5 CONTINUOUS AND #3 CROSSTIES AT 12" O.C.
 - FILL ALL CELLS BELOW SLAB LEVEL WITH GROUT, TYP.
 - COMPACTED FILL: COORDINATE WITH EARTHWORK SPECIFICATION. TREAT WITH APPROVED TERMITICIDE.
 - 3000 PSI CONCRETE SLAB WITH 10 / 10 . 6" x 6" WWF ON 15 MIL POLYOLFIN VAPOR BARRIER.
 - FILL OPEN CELLS WITH FOAM MASONRY INSULATION.
 - 8" CMU WITH HORIZONTAL WIRE REINFORCEMENT AT 16" O.C., TYP. SEE FOUNDATION PLANS FOR VERTICAL REINFORCING, PAINT BOTH SIDES
 - 1/2" A.C PLYWOOD, SEAL ALL JOINTS AIR TIGHT, PROVIDE 1x2 BATTEN AT EVERY JOINT, PAINT. PROVIDE BLOCKING AT EVERY UN-SUPPORTED EDGE.
 - 1 x 4 P.T. WOOD TRIM, SEAL ALL JOINTS AIR TIGHT-PAINT
 - 1/4" x 12" WIDE, SMOOTH-FACE VENTILATED CEMENTITIOUS WOOD FIBER SOFFIT BOARD. STAGGER JOINTS. ATTACH WITH GALVANIZED NAILS, & PROVIDE 1" x 4" BLOCKING PER FLORIDA PRODUCT APPROVAL NUMBER, PAINT. (HARDIE "VENTED PLUS"-SMOOTH)
 - 1 x 4 SMOOTH-FACED CEMENTITIOUS WOOD FIBER BOARD TRIM, PAINT
 - 2 x 8 P.T. RIM BOARD, CONT, PAINT.
 - 24 GA PRE-FINISHED GALV. STEEL DRIP FLASHING
 - 5/8" APA EXTERIOR STRUCTURAL GRADE PLYWOOD DECK
 - STANDING SEAM PRE-FINISHED GALVANIZED METAL ROOFING ON SELF-ADHERING ASPHALTIC UNDERLAYMENT
 - 2 x 6 BLOCKING BETWEEN TRUSSES AT 4'-0" O.C.
 - WOOD TRUSSES AT 2'-0" O.C.
 - GALVANIZED METAL ANCHOR AT EACH TRUSS: SEE ROOF FRAMING PLAN, AND PER ENGINEERED TRUSS DRAWINGS
 - DOUBLE 2 x 8 P.T. PLATE WITH 3/4 x 10" ANCHOR BOLTS WITH 2" SQUARE WASHER AT 2'-0" O.C. SEE DETAIL 4 / A311 FOR CORNER ANCHORS. SEE ROOF FRAMING PLAN
 - 16" DEEP BOND BEAM WITH (2) #5 CONTINUOUS TOP AND BOTTOM, FILL WITH CONCRETE
 - NOT USED
 - COMPACTED SUB-GRADE
 - 4" -- 2.5 LB / CF MINERAL WOOL, UN-FACED BATT INSULATION (NOT SHOWN FOR CLARITY)
 - CEMENT PARGE ON CMU BELOW FINISH FLOOR LINE. PROVIDE BITUMINOUS DAMP-ROOFING BELOW GRADE.
 - FILL TOP CMU WITH CONCRETE
 - 1 x 8 P.T. TRIM, PAINT
 - THICKENED SLAB CONCRETE FOUNDATION: WITH (3) #5 CONTINUOUS AND #3 TIES AT 12" O.C.
 - 2x4 OUTRIGGER AT 2'-0" O.C.
 - 2x4 GABLE END TRUSS WITH VERTICAL 2x4's AT 2'-0" O.C.
 - 5/8" TI-11 SIDING, PAINT, 100% SOLIDS ACRYLIC EXTERIOR ENAMEL
 - 2x4 GABLE END, BRACE TO NEXT TRUSS, AT 4'-0" O.C.
 - 2x4 P.T. BLOCKING / BRIDGING.

municipal
ENGINEERING SERVICES INC

8574 Turkey Bluff Road • Navarre, Florida 32566 • P: (850) 935-5723
CERTIFICATE OF AUTHORIZATION: CA-50886

WALL SECTIONS

NOT Released for Construction by _____ Date _____
As-Built "Record Drawing" by _____ Date _____

WELL #4 AND ELEVATED TANK
FOR
HOLT WATER WORKS, INC

FLORIDA
OKALOOSA COUNTY

REVISION	

SCALE: AS NOTED
DATE: OCTOBER 2024
JOB NUMBER: 190002-02
DRAWN BY:

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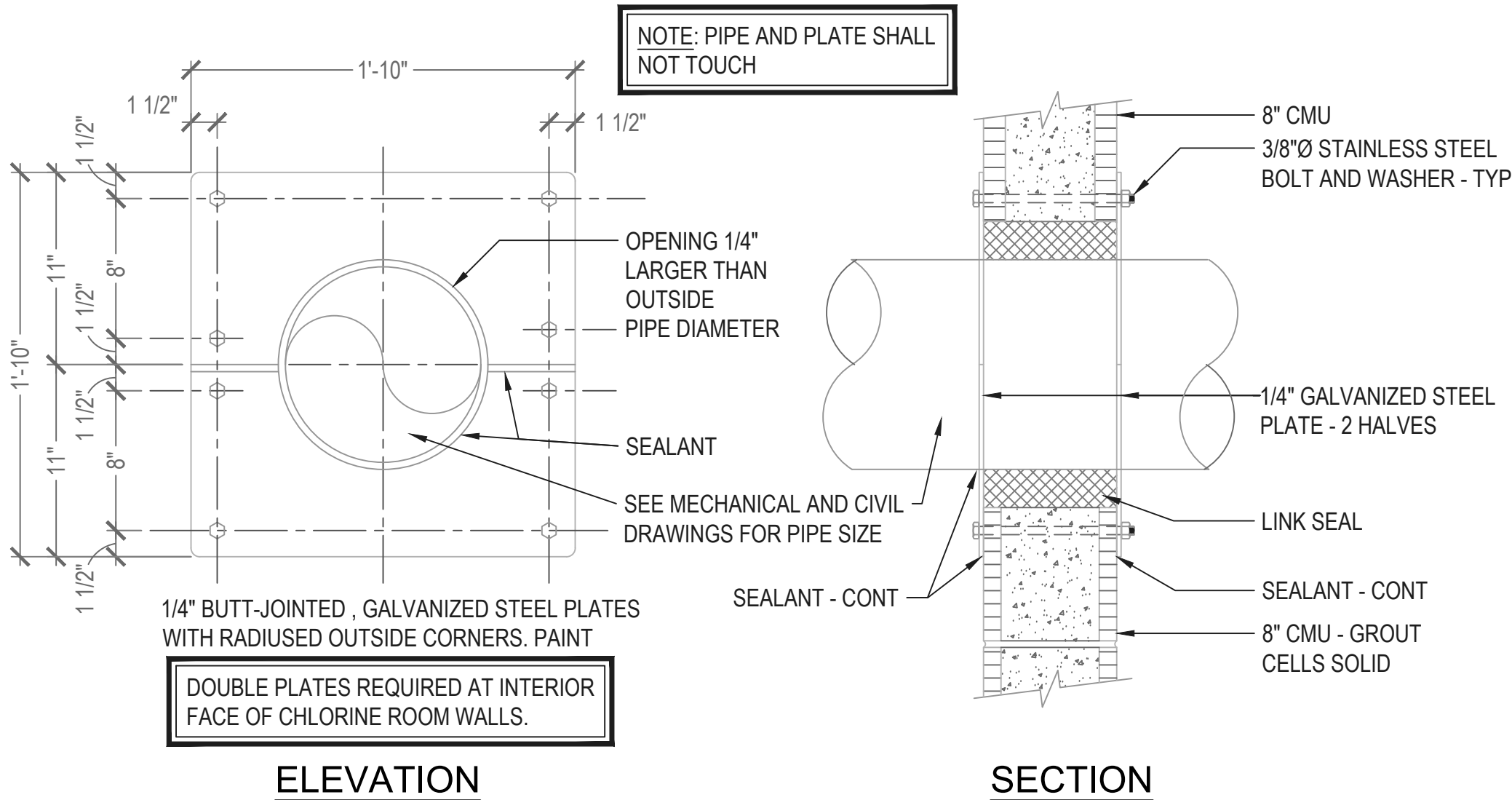
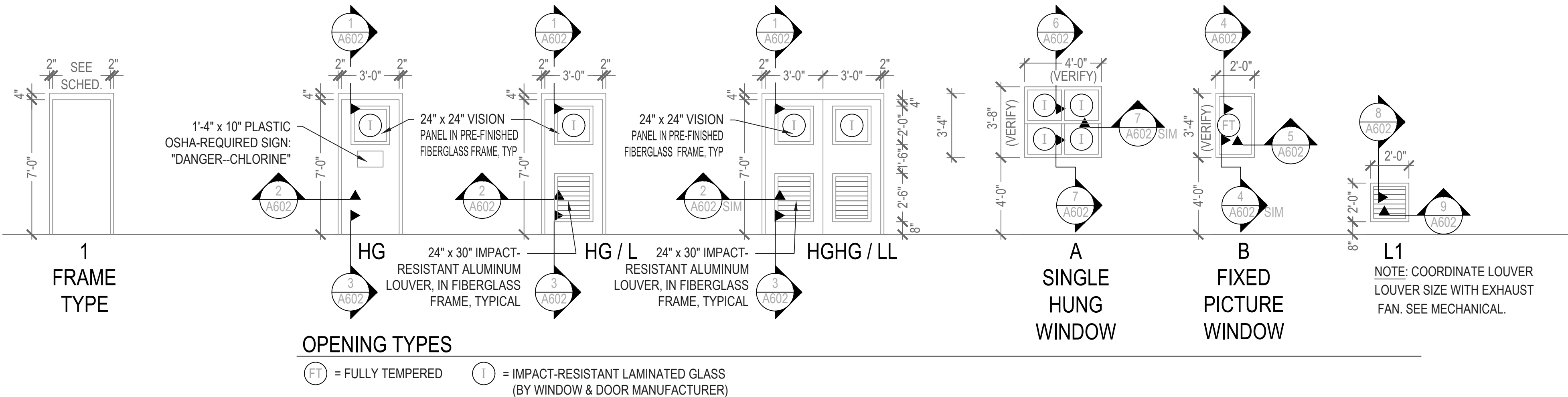
A311

ROOM FINISH SCHEDULE										
ROOM		FLOOR		WALLS				CEILING		NOTES
#	NAME	FINISH	BASE	North	East	South	West	FINISH	HEIGHT	
001	PUMP ROOM	EP-1	EB-1	PTD-2	PTD-2	PTD-2	PTD-2	PLY-1	10'-2"	1, 2, 3, 4
002	STORAGE	EP-1	EB-1	PTD-2	PTD-2	PTD-2	PTD-2	PLY-1	10'-2"	3, 4
003	CHLORINE ROOM	EP-1	EB-1	PTD-1	PTD-1	PTD-1	PTD-1	PLY-1	10'-2"	3, 4
NOTES: 1. PAINT ALL CONCRETE HOUSEKEEPING PADS HIGH GLOSS ACRYLIC YELLOW 2. PAINT 4" WIDE FLOOR STRIPES UP TO 3'-0" IN FRONT OF ELECTRICAL PANELS, ADD "NO STORAGE" IN 4" HIGH LETTERS 3. AT CEILING, SEAL ALL JOINTS BETWEEN PLYWOOD AIR TIGHT WITH CAULK, COVER ALL SEALED JOINTS WITH 1x2 BATTEN, PAINT WHITE 4. AT CEILING, PROVIDE BLOCKING AS REQUIRED ALONG ALL UN-SUPPORTED JOINTS										

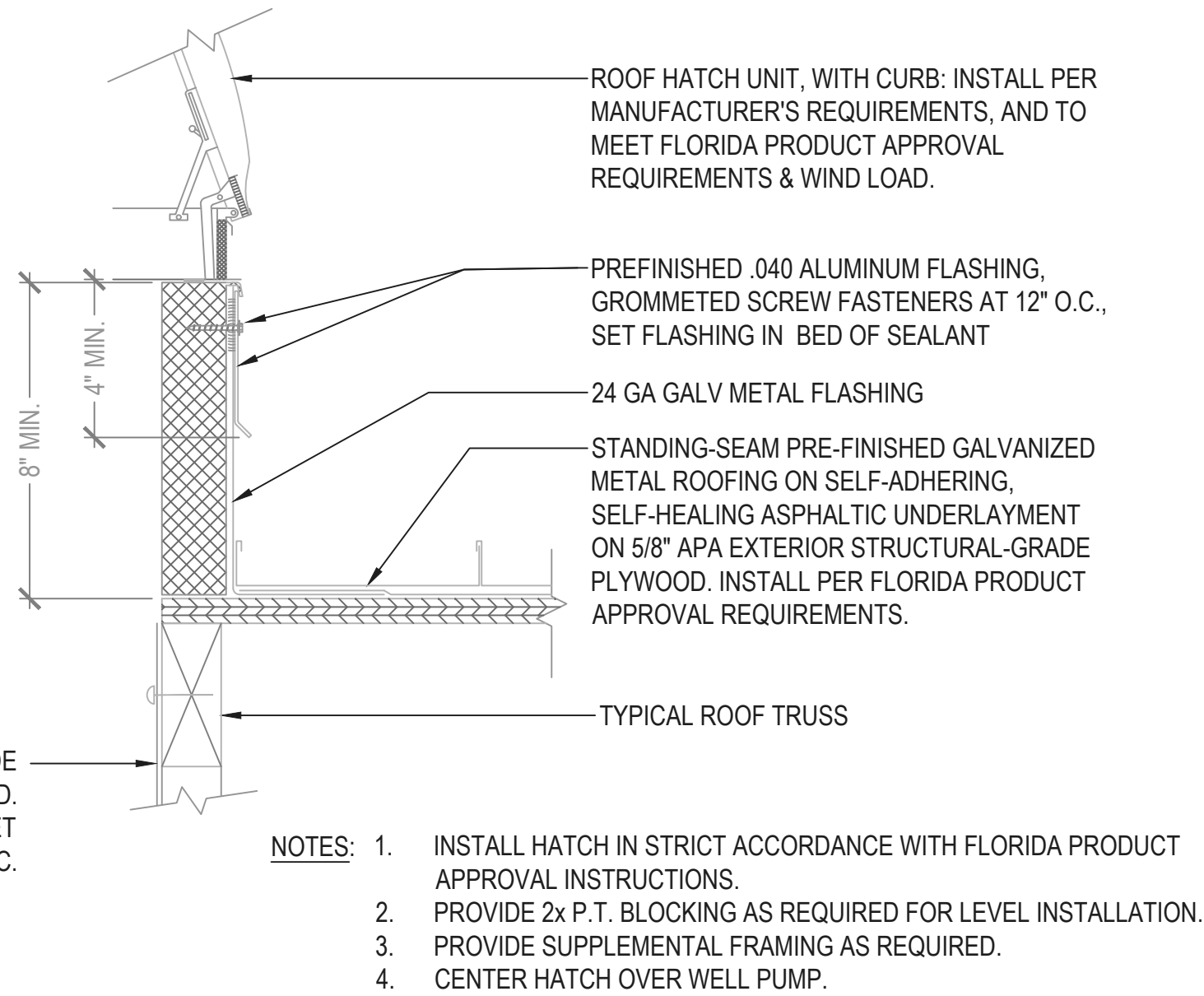
ROOM FINISH KEY		
ABBR	MATERIAL	NOTES
FLOORING		
EP-1	EPOXY FLOOR PAINT	EPOXY FLOOR FINISH, COLOR TBD
BASE		
EB-1	EPOXY PAINT	8" HIGH PAINTED BASE
WALLS		
PTD-1	PAINTED CMU	EPOXY CMU FINISH: SEMI-GLOSS, COLOR TBD
PTD-2	PAINTED CMU	SEMI-GLOSS EXTERIOR ACRYLIC ENAMEL: COLOR TBD
CEILINGS		
PLY-1	PAINTED 1/2" PLYWOOD - A/C GRADE	SEMI-GLOSS ACRYLIC ENAMEL: COLOR: WHITE

DOOR AND FRAME SCHEDULE																
NO.	DOOR							FRAME						FIRE RATING	HDW SET	NOTES
	TYPE	WIDTH	HGT	THK	MTL	FIN	GLAZ	TYPE	MTL	FIN	HEAD	JAMB	SILL			
001	HGHG / LL	3'-0" 3'-0"	7'-0"	1-3/4"	FG	GEL	L	1	FG	GEL	1 / A602	2 / A602	3 / A602	--	1	--
002	HG / L	3'-0"	7'-0"	1-3/4"	FG	GEL	L	1	FG	GEL	1 / A602	2 / A602	3 / A602	--	2	--
003	HG	3'-0"	7'-0"	1-3/4"	FG	GEL	L	1	FG	GEL	1 / A602	2 / A602	3 / A602	--	2	1
ABBREVIATIONS																
FG FIBERGLASS							NOTES									
HG HALF GLASS							1. PROVIDE 1'-4" x 10" PLASTIC OSHA REQUIRED SIGN - "DANGER - CHLORINE"									
L LAMINATED CLEAR, IMPACT RATED IN FIBERGLASS FRAME							GENERAL DOOR SCHEDULE NOTES									
PTD PAINTED							1. TYPICAL: ALL EGRESS DOORS SHALL MEET THE FOLLOWING CRITERIA									
GEL FACTORY-APPLIED GELCOAT							• A 15 LB FORCE SHALL RELEASE THE LATCH									
							• A 30 LB FORCE SHALL SET THE DOOR IN MOTION									
							• A 15 LB FORCE SHALL SWING THE DOOR FULLY OPEN									
							2. ALL DOOR HANDLE HARDWARE SHALL BE LEVER TYPE									

DOOR HARDWARE SCHEDULE		
HARDWARE SET NO. 1 - DOOR TYPE HGHG		
ITEM	QUANTITY	DESCRIPTION
BUTTS	3 PAIR EACH	A5112 -- STAINLESS STEEL BALL BEARING
CLOSER	1 EACH	HEAVY DUTY CORROSION RESISTANT - C02011 (OPERATING LEAF)
STOP	2 EACH	EXT. FLOOR MOUNTED - L01371 WITH HOLDER & KEEPER
EXIT DEVICE	1 EACH	TYPE 6, CONCEALED VERTICAL ROD, TYPE 08
THRESHOLD	1 EACH	7" ALUMINUM THRESHOLD
WEATHERSTRIP	1 EACH	SURFACE MOUNTED (HAGER 859S)
DOOR BOTTOM SWEEP	2 EACH	SURFACE MOUNTED (HAGER 750S)
SURFACE BOLTS	2 EACH	2 EACH, T&B, L04161 (ON FIXED LEAF)
HARDWARE SET NO. 2 - DOOR TYPE HG		
ITEM	QUANTITY	DESCRIPTION
BUTTS	1-1/2 PAIR EACH	A5112 -- STAINLESS STEEL BALL BEARING
CLOSER	1 EACH	HEAVY DUTY CORROSION RESISTANT - C02011
STOP	1 EACH	EXT. FLOOR MOUNTED - L01371 WITH HOLDER & KEEPER
EXIT DEVICE	1 EACH	TYPE 6, CONCEALED VERTICAL ROD, TYPE 08
THRESHOLD	1 EACH	7" ALUMINUM THRESHOLD - FLAT PLATE
WEATHERSTRIP	1 EACH	SURFACE MOUNTED (HAGER 859S)
DOOR BOTTOM SWEEP	1 EACH	SURFACE MOUNTED (HAGER 750S)



1 CMU WALL SLEEVE DETAIL
SCALE: 1-1/2"=1'-0"



2 ROOF HATCH DETAIL
SCALE: 3"=1'-0"

REVISION

SCALE: AS NOTED	
DATE: OCTOBER 2024	
JOB NUMBER: 190002-02	FILENAME: SEE LEFT
DRAWN BY:	DESIGNED BY:

ELECTRICAL GENERAL NOTES

1. ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION (UNLESS NOTED OTHERWISE) OF THE FOLLOWING CODES AND STANDARDS:
 - 1.1. NATIONAL ELECTRICAL CODE (NFPA 70).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING ALL PROJECT SPECIFICATIONS AND WILL BE RESPONSIBLE FOR MEETING ALL REQUIREMENTS OUTLINED IN THE SPECIFICATIONS.
3. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ROUGH-IN AND INSTALLATION.
4. WORKING SPACE FOR ALL ELECTRICAL AND CONTROL EQUIPMENT OPERATING AT 600V VOLTS OR LESS TO GROUND AND LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL COMPLY WITH NEC, ARTICLE 110.26.
5. THE ELECTRICAL DESIGN PROVIDES A NUMBER OF BRANCH CIRCUITS, AMPACITY AND OVERCURRENT PROTECTION FOR OTHER DIVISIONS DESIGN BASIS EQUIPMENT CONFORMING TO MANUFACTURER'S SPECIFICATIONS AVAILABLE AT TIME OF DESIGN. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOADS PRIOR TO ROUGH-IN. IF REQUIREMENTS OF EQUIPMENT ACTUALLY PROVIDED UNDER CONTRACT FOR CONSTRUCTION ARE DIFFERENT, CONTRACTOR SHALL MAKE ALL CHANGES NECESSARY WITHOUT INCREASE IN THE CONTRACT AMOUNT. SUCH CHANGES SHALL BE BASED UPON EQUIPMENTS, NAMEPLATE VALUES AND CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT, AND MAY INCLUDE, BUT ARE NOT LIMITED TO: SIZE OF CONDUCTORS, SIZE OF CONDUIT, QUANTITY OF CONDUCTORS AND CONDUITS, TYPE AND SIZE OF CIRCUIT BREAKER OR DISCONNECT, OVERLOADS, FULL-VOLTAGE STARTERS, REDUCED VOLTAGE SOFT STARTERS, VARIABLE FREQUENCY DRIVES, AND FUSE PROTECTION.
6. THE ELECTRICAL CONTRACTOR IS REQUIRED TO COORDINATE, PROVIDE, AND INSTALL A FULLY OPERATIONAL AND CODE COMPLIANT ELECTRICAL SYSTEM. THIS MAY INCLUDE THE ADDITION OF ELECTRICAL ITEMS NOT SHOWN ON THE ELECTRICAL PLANS, BUT REQUIRED FOR SYSTEM OPERATION.
7. CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL SERVICE WITH ELECTRICAL UTILITY COMPANY PROVIDING ELECTRICAL SERVICE TO FACILITY. CONTRACTOR SHALL PAY ALL FEES ASSESSED BY ELECTRICAL UTILITY COMPANY TO PROVIDE ELECTRICAL SERVICE TO FACILITY.
8. CONTRACTOR SHALL EXCAVATE AND CONDUCT DEMOLITION SO AS TO AVOID DAMAGE TO EXISTING UTILITIES AND OTHER UNDERGROUND OR CONCEALED ITEMS. IF EXISTING OR NEW ITEMS ARE DAMAGED, THE CONTRACTOR SHALL NOTIFY THE OWNER AT ONCE OF ALL DAMAGE AND SHALL REPAIR (OR REPLACE IF NECESSARY) TO THE ORIGINAL CONDITION TO THE SATISFACTION OF OWNER AND ENGINEER AT NO CHARGE IN THE CONTRACT AMOUNT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DETAILED ELECTRICAL AND CONTROL EQUIPMENT LAYOUT DRAWINGS TO THE ENGINEER AND OWNER FOR APPROVAL PRIOR TO INSTALLATION.
10. ALL CONDUITS NOT LOCATED UNDER SLAB SHALL HAVE A MINIMUM BURIAL DEPTH OF 18", UNLESS NOTED OTHERWISE.
11. CONDUITS SHALL BE BURIED 18" (MINIMUM) BELOW GRADE WITH MARKER TAPE 6" ABOVE TOP OF CONDUIT, UNLESS NOTED OTHERWISE.
12. MINIMUM SIZE CONDUIT SHALL BE 1" (UNLESS NOTED OTHERWISE).
13. CONDUIT ROUTINGS AND DEVICE/EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD ROUTE AND LOCATE AS REQUIRED.
14. CONTRACTOR SHALL PROVIDE PULL BOXES IN POWER CIRCUIT CONDUIT AS REQUIRED TO LIMIT THE NUMBER OF BENDS TO A MAXIMUM OF 270 DEGREES OR THREE 90 DEGREES BENDS.
15. ALL WIRE SHALL BE COPPER.
16. ALL ELECTRICAL CIRCUITS SHALL INCLUDE A GREEN GROUNDING CONDUCTOR SIZED PER NEC.
17. CONDUCTORS SHALL BE TERMINATED ON TERMINAL BLOCKS.
18. THE CONTRACTOR SHALL TAG ALL POWER AND CONTROL SYSTEM CABLING AT ALL TERMINATION POINTS.
19. FINAL CONNECTION TO ALL EQUIPMENT IS SHOWN DIAGRAMMATIC. PROVIDE FINAL CONNECTION AS REQUIRED PER MANUFACTURER OF EQUIPMENT.
20. CONTRACTOR SHALL MAINTAIN A SET OF PRINTS AND MARK-UP DURING CONSTRUCTION TO REFLECT "AS-BUILT" CONDITIONS. PRINTS SHALL BE DELIVERED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
21. ALL HARDWARE SHALL BE STAINLESS STEEL.
22. ALUMINUM CONDUIT SHALL BE COATED WITH (2) WRAPS OF ANTI-CORROSION TAPE OR RUN THROUGH A SCHEDULE 80 PVC SLEEVE TO WHEN IN CONTACT WITH CONCRETE.
23. BARE COPPER SHALL BE COATED WITH (2) WRAPS OF ANTI-CORROSION TAPE OR RUN THROUGH A SCHEDULE 80 PVC SLEEVE TO WHEN IN CONTACT WITH CONCRETE.
24. ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR FINAL SIZING OF ALL EQUIPMENT.
31. ALL MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE UNDER-WRITERS LABORATORY (UL) APPROVED. ALL PANELS SHALL BE UL LABELED PER 508A STANDARDS.
32. ALL RIGID EXTERNAL CONDUIT RUNS SHALL USE FORM 7 CONDUIT BODIES INCLUDING OUTLET BOXES.
33. ALL EXTERNAL CABLE RUNS SHALL BE TYPE-TC TRAY CABLES."
34. GROUND RODS SHALL HAVE A RESISTANCE TO GROUND NOT TO EXCEED 25 OHMS. WHERE THE RESISTANCE IS NOT AS LOW AS 25 OHMS, TWO OR MORE GROUND RODS CONNECTED IN PARALLEL SHALL BE USED. CONTRACTOR SHALL HAVE NECESSARY

ELECTRICAL GENERAL NOTES CONT.

- TEST EQUIPMENT (CURRENT CALIBRATION CERTIFICATE REQUIRED) AT FINAL INSPECTION TO INSURE ACCEPTABILITY OF GROUNDING SYSTEM. TOTAL GROUNDING SYSTEM NOT TO EXCEED 10 OHMS.
35. NEUTRAL WIRES TO HAVE WHITE INSULATION. DO NOT USE WHITE OR GREEN INSULATED WIRES FOR UNGROUNDED CONDUCTORS.
36. UNLESS OTHERWISE SPECIFIED, ALL CABLE SHALL BE SINGLE CONDUCTOR, 98 PERCENT CONDUCTIVITY STRANDED COPPER, WITH THW OR THWN INSULATION.

PROJECT SPECIFIC GENERAL NOTES

GENERAL NOTES

1. SUMMARY OF ELECTRICAL WORK TO BE PERFORMED
 - 1.1. SUPPLY AND INSTALL ALL ELECTRICAL EQUIPMENT PER PLAN SET
 - 1.2. WIRE THE ELECTRICAL EQUIPMENT PER ELECTRICAL PLAN SET

SITE INFORMATION

1. **WELL 4**
- | | |
|----------------------|---|
| 1.1. ADDRESS: | 4913T GALLIVER CUT-OFF
HOLT, FL. 32564 |
| 1.2. PARCEL NUMBER: | 25-3N-25-0000-0003-005B |
| 1.3. CHELCO CONTACT: | DEREK TABOR
DTABOR@CHELCO.COM |

ELECTRICAL INDEX

SH #	DESCRIPTION
E-001	ELECTRICAL GENERAL NOTES
E-002	ELECTRICAL LEGEND 1
E-101	ELECTRICAL SINGLE-LINE DIAGRAMS & SCHEDULES
E-111	ELECTRICAL SITE PLAN
E-121	WELL BLDG. GROUNDING & LIGHTING PLAN
E-122	WELL BLDG. EQUIPMENT & INSTRUMENT PLAN
E-131	WELL CONTROL BLOCK DIAGRAM & LAYOUT
E-132	WELL CONTROL SCHEMATICS
E-901	ELECTRICAL DETAILS 1
E-902	ELECTRICAL DETAILS 2
E-903	ELECTRICAL DETAILS 3

ELECTRICAL
GENERAL NOTES

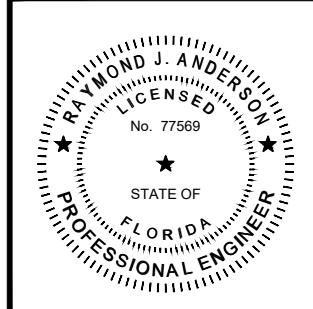
NOT Released for Construction
by _____ Date _____

WELL #4 AND ELEVATED TANK #3
FOR
HOLT WATER WORKS, INC

FLORIDA

OKALOOSA COUNTY

REVISION	



SCALE: AS NOTED

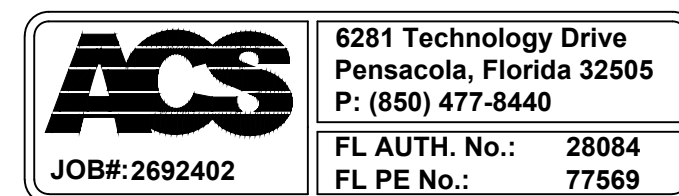
DATE: FEBRUARY 2025

JOB NUMBER: 190003-01	FILENAME SEE LEFT
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DRAWN BY: RJM	DESIGNED RJA

SHEET

E-001



SYMBOL	DESCRIPTION
ONE-LINE DIAGRAM	
	DRAWOUT AIR CIRCUIT BREAKER, LOW VOLTAGE
	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE, UNO
	CIRCUIT BREAKER, STATIC TRIP UNIT, SENSOR AMP TRIP AND FRAME RATINGS SHOWN, 3 POLE, UNO
	CIRCUIT BREAKER, MAGNETIC TRIP ONLY, TRIP RATING SHOWN, 3 POLE, UNO
	CIRCUIT BREAKER WITH CURRENT LIMITING FUSES, TRIP AND FUSE RATING INDICATED, 3 POLE, UNO
	FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE, UNO
	SWITCH, CURRENT RATING INDICATED, 3 POLE, UNO
	FUSE, CURRENT RATING AND QUANTITY INDICATED
	MAGNETIC STARTER WITH OVERLOAD, NEMA SIZE INDICATED, FVNR UNO
	ELECTRONIC STARTER/SPEED CONTROL RVSS = REDUCED VOLTAGE SOFT STARTER AFD = AC ADJUSTABLE FREQUENCY DRIVE DC = DC ADJUSTABLE SPEED DRIVE RVAT = REDUCED VOLTAGE AUTO TRANSFORMER TYPE RVRT = REDUCED VOLTAGE REACTOR TYPE
	CABLE OR BUS CONNECTION POINT
	KEY INTERLOCK
	SURGE ARRESTER (GAP TYPE)
	CAPACITOR - KVAR INDICATED, 3 PHASE
	AC MOTOR, SQUIRREL CAGE INDUCTION - HORSEPOWER INDICATED
	GENERATOR, KW/KVA RATING SHOWN
	ANALOG METER WITH SWITCH - SCALE RANGE SHOWN V = VOLTAGE KW = KILOWATTS A = AMPERAGE KVAR = KILOVARS PF = POWER FACTOR
	DIGITAL POWER METER (MULTIFUNCTION)
	UTILITY REVENUE METER
	GROUND
	TRANSFORMER, SIZE, VOLTAGE RATINGS, AND PHASE INDICATED
	SHIELDED ISOLATION TRANSFORMER
	POTENTIAL TRANSFORMER, VOLTAGE RATING AND QUANTITY INDICATED
	CURRENT TRANSFORMER, RATIO(100:5) AND QUANTITY INDICATED (3)
	CONNECTION POINT TO EQUIPMENT SPECIFIED IN OTHER DIVISIONS. RACEWAY, CONDUCTOR AND CONNECTION IN THIS DIVISION
	TRANSIENT VOLTAGE SURGE SUPPRESSOR

SYMBOL	DESCRIPTION
ONE-LINE DIAGRAM	
	DRAWOUT POWER CIRCUIT BREAKER, MEDIUM VOLTAGE
	NON DRAWOUT FUSED SWITCH, MEDIUM VOLTAGE
	DRAWOUT FUSED SWITCH AND CONTACTOR, MEDIUM VOLTAGE
	DRAWOUT FUSED SWITCH AND VACUUM CONTACTOR, MEDIUM VOLTAGE
	DRAWOUT VACUUM CONTACTOR, MEDIUM VOLTAGE
	MEDIUM VOLTAGE CABLE STRESS CONE TYPE TERMINATION, OPEN TERMINATOR OR ELBOW
	SWITCH - LOAD BREAK, GROUP OPERATED, MEDIUM VOLTAGE
	SWITCH W/ARCING HORNS, MEDIUM VOLTAGE
	DISCONNECTING FUSE - SOLID MATERIAL, MEDIUM VOLTAGE
	SWITCH - HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE
	FUSE - EXPULSION, HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE
	GROUND SWITCH, GANG OPERATED
	TERMINAL BLOCK LUG
	DELTA CONNECTION
	WYE GROUNDED CONNECTION, SOLID GROUND
	WYE NEUTRAL GROUND RESISTOR OR IMPEDANCE CONNECTION
	RELAY OR DEVICE, FUNCTION NUMBER AS INDICATED
	CURRENT TRANSFORMER, ZERO SEQUENCE, RATIO AND QUANTITY INDICATED
	BUSHING CURRENT TRANSFORMER, MULTI-RATIO AND QUANTITY INDICATED
	MOTOR OPERATOR, BREAKER OR SWITCH
	ENERGY MONITORING UNIT
	MOTOR PROTECTION RELAY
BLOCK DIAGRAM	
	CIRCUIT BREAKER CONTROL SWITCH
	CIRCUIT BREAKER TRIP UNIT
	DIGITAL INPUT TO SWITCHBOARD PLC
	DIGITAL OUTPUT FROM SWITCHBOARD PLC
	ANALOG OUTPUT FROM SWITCHBOARD PLC
	DIGITAL COMMUNICATIONS

NOTES:

1. THESE ARE STANDARD LEGEND SHEETS. SOME SYMBOLS AND ABBREVIATIONS MAY APPEAR ON THE LEGEND AND NOT ON THE DRAWINGS.
2. FOR ADDITIONAL ABBREVIATIONS OF OTHER DIVISIONS (HVAC, MECHANICAL, AND STRUCTURAL/ARCHITECTURAL) SEE OTHER LEGENDS.

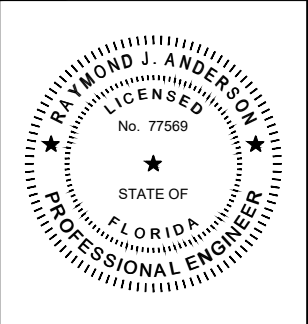
SYMBOL	DESCRIPTION
CONTROL DIAGRAM	
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED
	PUSH BUTTON SWITCH, MAINTAINED CONTACTS WITH MECHANICAL INTERLOCK
	3 POSITION SELECTOR SWITCH MAINTAINED CONTACT
	SELECTOR SWITCH - MAINTAINED CONTACT - CHART IDENTIFIES OPERATION WHEN NEEDED FOR CLARITY:
	TOGGLE SWITCH, ON-OFF TYPE
	SELECTOR SWITCH, ON-OFF TYPE
	MUSHROOM HEAD PUSHBUTTON SWITCH
	INDICATING LIGHT, PUSH-TO-TEST, LETTER INDICATES COLOR A - AMBER G - GREEN S - STROBE B - BLUE R - RED C - CLEAR W - WHITE
	ELAPSED TIME METER
	MOTOR STARTER CONTACTOR COIL
	CONTROL RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT
	TIME DELAY RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT
	SOLENOID VALVE, X INDICATES NUMERICAL ORDER IN CIRCUIT
	CONTACT - NORMALLY OPEN
	CONTACT - NORMALLY CLOSED
	REMOTE DEVICE
	TIME DELAY RELAY CONTACT, NORMALLY OPEN, CLOSSES WHEN ENERGIZED AND TIMED OUT
	TIME DELAY RELAY CONTACT, NORMALLY CLOSED, OPENS WHEN ENERGIZED AND TIMED OUT
	TIME DELAY RELAY CONTACT, CLOSSES WHEN ENERGIZED, OPENS WHEN DE-ENERGIZED AND TIMED OUT
	TIME DELAY RELAY CONTACT, OPENS WHEN ENERGIZED, CLOSSES WHEN DE-ENERGIZED AND TIMED OUT
	MOTOR SPACE HEATER
	TERMINAL BLOCK, REMOTE
	TERMINAL BLOCK, INTERNAL
	FUSED TERMINAL BLOCK
	FUSE, RATING INDICATED
	TRANSFORMER, CONTROL POWER
	THERMOCOUPLE
	CAPACITOR

SYMBOL	DESCRIPTION
CONTROL DIAGRAM	
	BATTERY
	LIMIT SWITCH, NORMALLY OPEN, CLOSSES AT END OF TRAVEL
	LIMIT SWITCH, NORMALLY CLOSED, OPENS AT END OF TRAVEL
	TEMPERATURE SWITCH, OPENS ON TEMPERATURE RISE
	TEMPERATURE SWITCH, CLOSSES ON TEMPERATURE RISE
	FLOAT SWITCH, NORMALLY OPEN, CLOSSES ON DESCENDING LEVEL
	FLOAT SWITCH, NORMALLY OPEN, CLOSSES ON RISING LEVEL
	PRESSURE SWITCH, NORMALLY CLOSED, OPENS ON RISING PRESSURE
	PRESSURE SWITCH, NORMALLY OPEN, CLOSSES ON RISING PRESSURE
	FLOW SWITCH, CLOSSES ON INCREASED FLOW
	FLOW SWITCH, OPENS ON INCREASED FLOW
	NEUTRAL GROUND CURRENT LIMITING RESISTOR
	CALIBRATING RESISTOR
	TACHOMETER GENERATOR
	GROUND FAULT SENSOR
	FLASHER
	SEALED CONTACT
	BUZZER
	POTENTIOMETER
	RESISTOR
	BLOWN FUSE INDICATOR
	COAXIAL CABLE
	MULTICONDUCTOR SHIELDED CABLE
	DUPLEX RECEPTACLE
	RELAY, WITH MECHANICAL LATCH
	FULLWAVE DIODE BRIDGE (AC TO DC)
	120VAC CONTROL POWER IN CP
	ANALOG SIGNALS IN CP
	ANALOG 2-WIRE FIELD MOUNT
	ANALOG 4-WIRE FIELD MOUNT
	INTERPOSING RELAY

6281 Technology Drive
Pensacola, Florida 32505
P: (850) 477-8440

FL AUTH. No.: 28084
FL PE No.: 77569

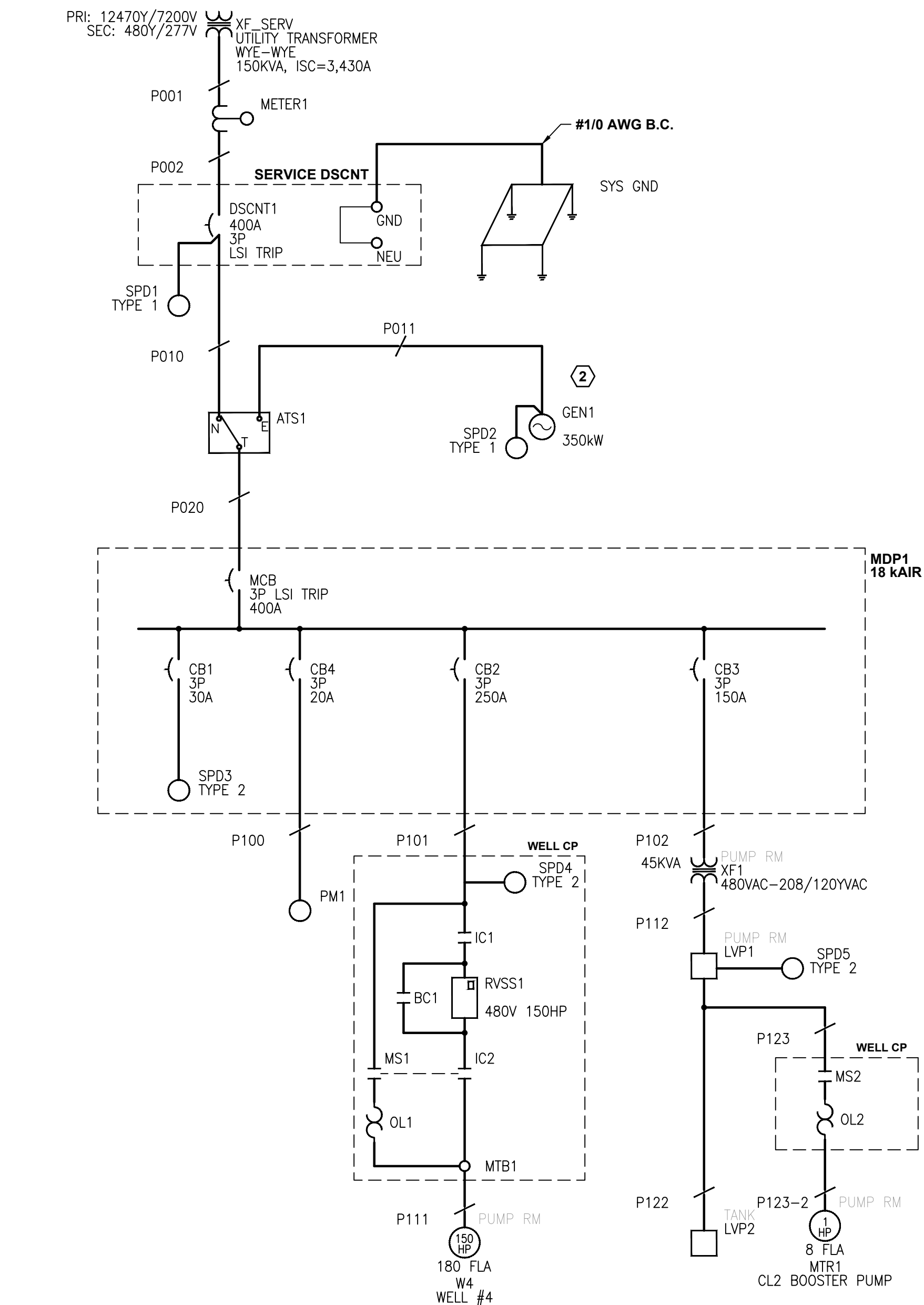
REVISION		



SCALE: AS NOTED	
DATE: FEBRUARY 2025	
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DRAWN BY: RJM	DESIGNED BY: RJA

SHEET GENERAL NOTES

- ELECTRICAL MAJOR SCOPE OF SUPPLY
 - SERVICE METER ENCLOSURE
 - SERVICE DISCONNECT
 - SURGE PROTECTION
 - GROUNDING SYSTEM
 - AUTOMATIC TRANSFER SWITCH
 - GENERATOR
 - MAIN DISTRIBUTION PANEL (MDP1)
 - DISTRIBUTION TRANSFORMER
 - LOW VOLTAGE PANELS (LVP1)
 - WELL CONTROL PANEL
 - LIGHTS, AND RECEPTACLES
- GENERATOR BASIS OF DESIGN
 - STARTING: 120.06kW, 363.14kVA
 - RUNNING: 131.02kW, 146.29kVA
 - FUEL CAPACITY: 36 HRS. RUNTIME
 - ESTIMATED RUNTIME: < 100HRS/YR
- FUTURE ELEVATED TANK LOADS

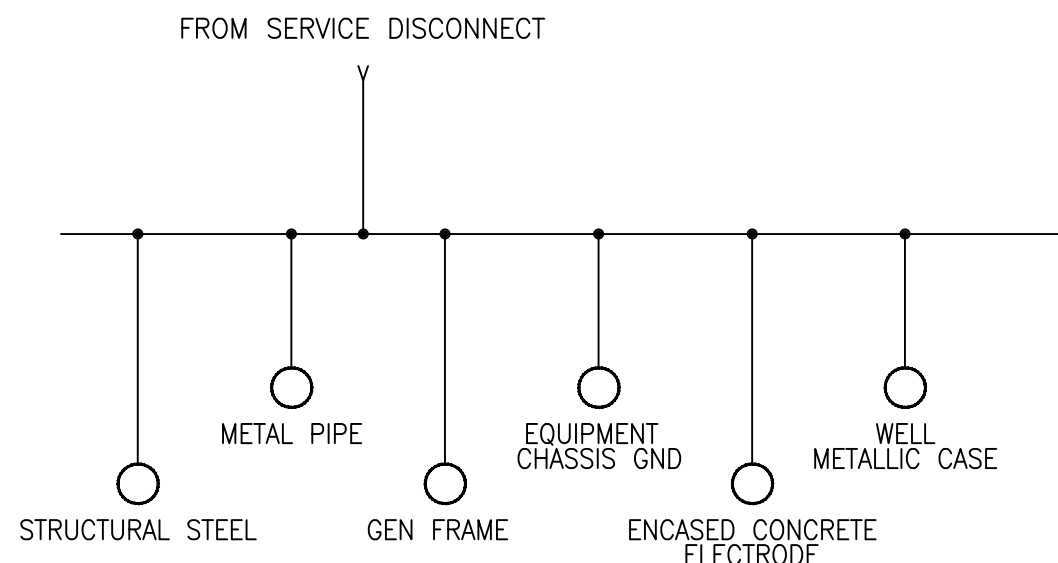


PANEL SCHEDULE													
PANEL:		MDP1		LOCATION:				WELL 4 PUMP ROOM					
SERVICE VOLTAGE:		277/480V 4 WIRE, GND		RATING:				400A MCB, 400A, 4WIRE, GND					
SERVICE CONFIG:				ENVIRONMENTAL:				TYPE 3R					
CKT #	SIZE	POLE	DESCRIPTION	LOAD	A	B	C	LOAD	DESCRIPTION	POLE	SIZE	CKT #	
1	30	3	SURGE PROTECTION	0	0			0	POWER MONITOR	3	20	2	
3					0		0	4					
5						0	0	6					
7	250	3	WELL 4 CONTROL PANEL	49884	59,884			10000	TRANSFORMER (XF1 45KVA)	3	100	8	
9				49884		59,884		10000				10	
11				49884			59,884	10000				12	
13	---	3	SPACE	0	0			0	SPACE	3	---	14	
15				0		0		0				16	
17				0			0	0				18	
19	---	---	SPACE	0	0			0	SPACE	---	---	20	
21	---	---	SPACE	0		0		0	SPACE	---	---	22	
23	---	---	SPACE	0			0	0	SPACE	---	---	24	
25	---	---	SPACE	0	0			0	SPACE	---	---	26	
27	---	---	SPACE	0		0		0	SPACE	---	---	28	
29	---	---	SPACE	0			0	0	SPACE	---	---	30	
Total Connected Load Per Phase (VA):				59,884	59,884	59,884							
Total Connected Load Per Phase (A):				216.2	216.2	216.2							
Total Connected Load (VA):				179,652			187,152	:Total Continuous Load (VA) @ 125%					
Total Connected Load (Amps):				216.1			225.1	:Total Continuous Load (Amps) @ 125%					
NOTES:													

PANEL SCHEDULE															
PANEL: LVP1				LOCATION: WELL 4 PUMP ROOM											
SERVICE VOLTAGE: 120/208V 4 WIRE, GND				RATING: 125A MCB, 120/208YVAC, 225A, 4WIRE, GND											
SERVICE CONFIG: N/A				ENVIRONMENTAL: TYPE 3R											
CKT #	SIZE	POLE	DESCRIPTION	LOAD	A	B	C	LOAD	DESCRIPTION	POLE	SIZE	CKT #			
1	20	1	PUMP RM RECPT	720	1,080			360	CL2 RM RECPT	1	20	2			
3	20	1	PUMP RM LIGHTS	150		870		720	STORAGE RM RECPT	1	20	4			
5	20	1	OUTSIDE RECPT	1080			1,160	80	CL2 & STORAGE RM LIGHTS	1	20	6			
7	20	1	BLDG. OUTSIDE LIGHTS	900	2,080			1180	STORAGE RM EX FAN (1/2HP)	1	20	8			
9	20	1	OUTSIDE SITE LIGHTS	100		1,280		1180	CL2 RM EX FAN (1/2HP)	1	20	10			
11	20	1	GEN BATT CHARGER	1500			1,620	120	CL2 LOSS DETECTOR	1	20	12			
13	20	1	GEN HEATER	1000	1,120			120	CL2 LEAK DETECTOR	1	20	14			
15	20	1	ALARM LIGHT	120		240		120	CL2 CHLORINATOR	1	20	16			
17	20	1	SPARE	0			1,000	1000	GENERATOR HEATER	1	20	18			
19	50	2	(FUTURE) TANK LVP2	316	816			500	GENERATOR BATTERY CHARGER	1	20	20			
21				1500		1,500		0	SPARE	1	20	22			
23	20	1	SPARE	0			1,225	1225	CL2 PUMP (1HP)	2	20	24			
25	30	3	SPD5	0	1,225			1225				26			
27				0		0		0				SPARE	2	20	28
29				0			0	0	30						
Total Connected Load Per Phase (VA):					6,321	3,890	5,005								
Total Connected Load Per Phase (A):					52.7	32.4	41.7								
Total Connected Load (VA):					15,216										
Total Connected Load (Amps):					42.2										
NOTES:															

(FUTURE) PANEL SCHEDULE												3	
PANEL:			LVP2				LOCATION:			TANK #3			
SERVICE VOLTAGE:			120/208V 3 WIRE, GND				RATING:			50A MCB, 100A, 3WIRE, GND			
SERVICE CONFIG:			N/A				ENVIRONMENTAL:			TYPE 3R			
CKT #	SIZE	POLE	DESCRIPTION			LOAD	A	B	LOAD	DESCRIPTION	POLE	SIZE	CKT #
1	20	1	TANK LIGHTS (10)			200	316		116	DOUBLE OBSTRUCTION LIGHT	20	1	2
3	20	1	SPARE			0		1,500	1500	RECPTACLES	20	1	4
5	20	1	SPARE			0	0		0	SPARE	20	1	6
7	20	1	SPARE			0		0	0	SPARE	20	1	8
9	20	1	SPARE			0	0		0	SPARE	20	1	10
11	20	1	SPARE			0		0	0	SPARE	20	1	12
Total Connected Load Per Phase (VA):							316	1,500					
Total Connected Load Per Phase (A):							2.6	12.5					
Total Connected Load (VA):							1,816						
Total Connected Load (Amps):							8.7						
NOTES:													

LIGHTING SCHEDULE					
TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURER / CATALOG	VOLTAGE / LOAD	LUMENS	NOTES
1	SITE POLE MOUNT LIGHTING	BEACON, VIPER "L" SERIES	120V, 100VA	17410	SEE SHEET E902 DETAIL L08
2	EMERGENCY LIGHT	LITHONIA EU2C	120V, 0.56W	--	
3	CEILING/ SUSPENDED MOUNT 24"	LITHONIA DMW2 L24 4000LM ACL MD MVOLT 40K 80CRI	120V, 40W	5001	DAMP LOCATION RATED IP65/IP66
4	CEILING/ SUSPENDED MOUNT 48"	LITHONIA CSVT L48 5000LM MVOLT 40K 80CRI	120V, 42W	4946	DAMP LOCATION RATED IP65/IP66
5	ALARM HORN AND STROBE LIGHT	FEDERAL SIGNAL AV1-LED-120R	120V, 0.03A	--	FLASH RATE/MIN - 65-75 PEAK OUTPUT - 125,000cd 85 DBA AT 10' (95 DBA @ 1M)
6	BUILDING MOUNT EXTERIOR LIGHTS	LITHONIA TWX2 LED ALO 50K MVOLT DDBTXD	120-277V, 180W	1450-6950	



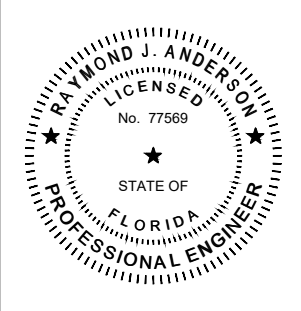
EQUIPOTENTIAL GROUND BAR

CABLE SCHEDULE					
TAG	CONDUCTOR COUNT & SIZE	CONDUIT SIZE	FROM	TO	NOTES
P001	(8) #3/0AWG, (1) GND #3AWG	(2) 3"	UTILITY TRANSFORMER	SERV METER CT ENCLOSURE	MEET FPL REQUIRMENTS
P002	(8) #3/0AWG, (1) GND #3AWG	(2) 3"	SERV METER CT ENCLOSURE	SERVICE DISCONNECT	
P010	(8) #3/0AWG, (1) GND #3AWG	(2) 3"	SERVICE DISCONNECT	AUTO TRANSFER SWITCH	
P011	(8) #3/0AWG, (1) GND #3AWG	(2) 3"	GENERATOR	AUTO TRANSFER SWITCH	
P020	(8) #3/0AWG, (1) GND #3AWG	(2) 3"	AUTO TRANSFER SWITCH	MDP1	
P100	(2) #12AWG, (1) GND #12AWG (8) #14AWG		MDP1	PM1	
P101	(3) #250KCMIL, (1) GND #4AWG	2-1/2"	MDP1	WELL CP	
P102	(3) #4AWG, (1) GND #6AWG	1-1/2"	MDP1	XF1	
P111	(3) #4/0AWG, (1) GND #4AWG	2-1/2"	WELL CP	WELL MOTOR	
P112	(3) #1/0AWG, (1) GND #6AWG	1-1/2"	XF1	LVP1	
P122	(3) #6AWG, (1) GND #6AWG	2"	LVP1	LVP2	
P123	(2) #12AWG	3/4"	LVP1	WELL CP	
P123-2	(2) #12AWG, (1) GND #12AWG	3/4"	WELL CP	CL2 BOOSTER PUMP	
L011	(2) #12AWG, (1) GND #12AWG	3/4"	LVP1	GENERATOR	
L012	(2) #12AWG, (1) GND #12AWG	3/4"	LVP1	GENERATOR	
L111	(2) #12AWG, (1) GND #12AWG (2) #14AWG	1"	WELL CP	WELL MOTOR	FOR HEATER AND THERMAL SWITCH
L201	(2) #12AWG, (1) GND #12AWG (2) #14AWG	1"	WELL CP	PRELUBE	FOR SOLENOID AND FLOW SWITCH
L301	(2) #12AWG, (1) GND #12AWG	3/4"	WELL CP	BLDG ALARM LIGHT	
[C2]	(2) #14AWG	3/4"	SEE CONTROL BLOCK DIA.	SEE CONTROL BLOCK DIA.	
[C4]	(4) #14AWG	3/4"	SEE CONTROL BLOCK DIA.	SEE CONTROL BLOCK DIA.	
[A1]	(1) #16 STSP	3/4"	SEE CONTROL BLOCK DIA.	SEE CONTROL BLOCK DIA.	
SPARE	PULL STRING	2"	MDP1	PB1	FUTURE TO TANK
SPARE	PULL STRING	1-1/2"	LVP1	PB1	FUTURE TO TANK
SPARE	PULL STRING	1-1/2"	WELL CP	PB1	FUTURE TO TANK
SPARE	PULL STRING	2"	MDP1	PB2	
SPARE	PULL STRING	1-1/2"	LVP1	PB2	
SPARE	PULL STRING	1-1/2"	WELL CP	PB2	



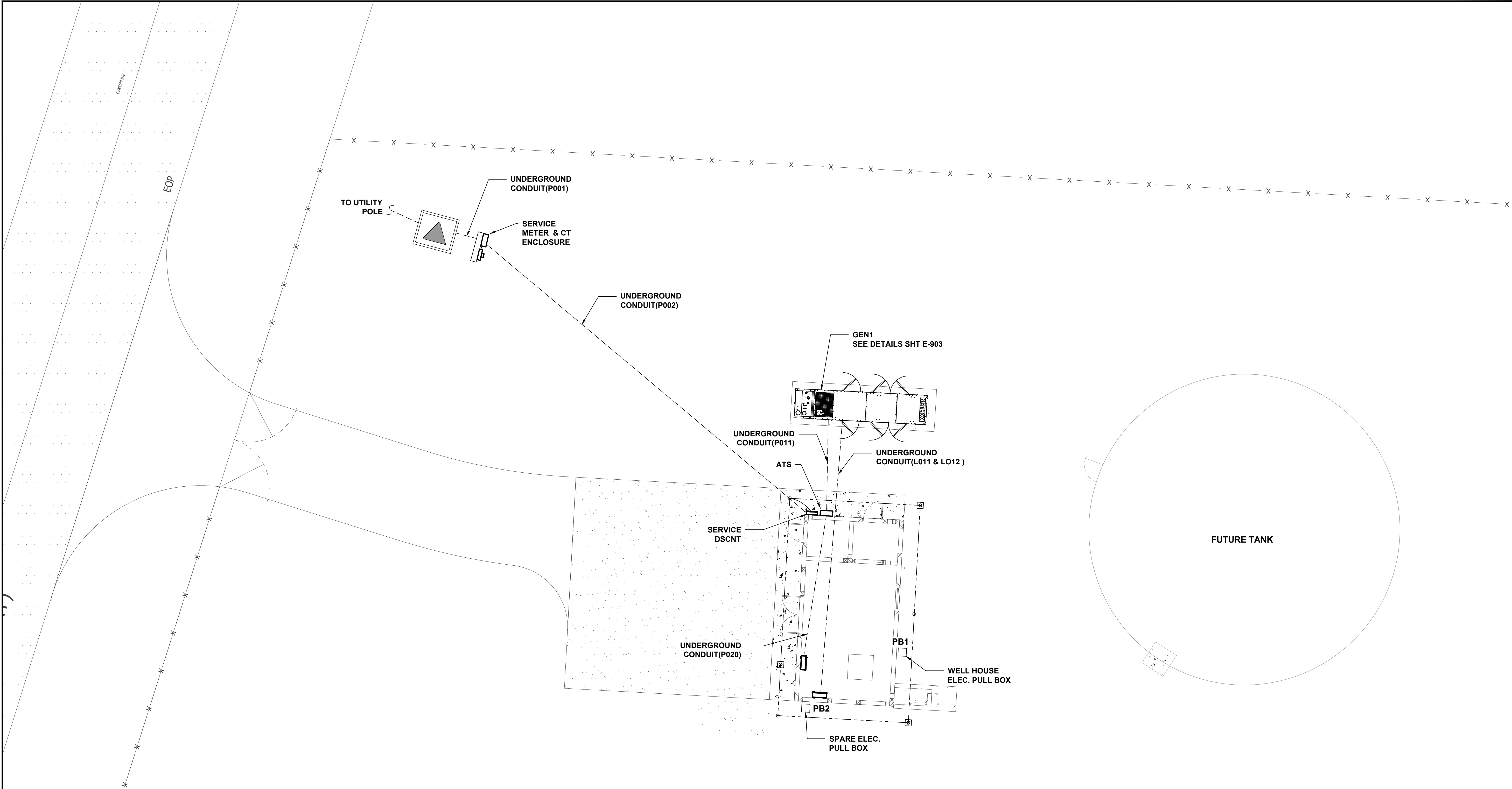
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FL PE No.: 77569

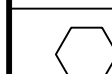
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SCALE: AS NOTED
DATE: FEBRUARY 2025
JOB NUMBER: 190002-01
DRAWN BY: RJM
DESIGNED BY: RJA

SHEET:



-  **SHEET GENERAL NOTES**
1. COORDINATE LOCATION OF UTILITY SERVICE EQUIPMENT WITH UTILITY PRIOR TO INSTALLATION.

2. COORDINATE WITH UTILITY COMPANY FOR CT ENCLOSURE. UTILITY SHALL FURNISH AND ELECTRICIAN SHALL INSTALL.

3. CONDUIT SHALL BE AS STRAIGHT AND SHORT AS SIZE CONDITION ALLOWS.

4. PROVIDE A SPARE CONDUIT FROM THE WELL HOUSE ELECTRICAL PULL BOX (PB1) TO THE FUTURE TANK ELECTRICAL PULL BOX WITH THE FOLLOWING SPARE CONDUITS CAPPED OFF.

4.1. (1) 2" FROM MDP1

4.2. (1) 1-1/2" FROM LVP1

4.3. (1) 1-1/2" FROM WELL CP

5. PROVIDE A SPARE CONDUIT IN THE WELL HOUSE ELECTRICAL PULL BOX (PB2) WITH THE FOLLOWING SPARE CONDUITS CAPPED OFF.

5.1. (1) 2" FROM MDP1

5.2. (2) 1-1/2" FROM LVP1

5.3. (2) 1" FROM WELL CP



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FL PE No.: 77569



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CERTIFICATE OF AUTHORIZATION: CA-30686

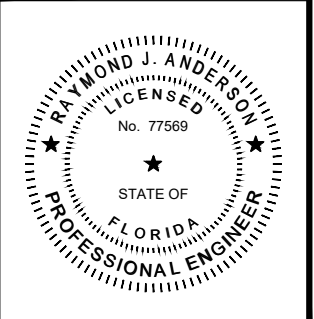
ELECTRICAL
SITE PLAN

NOT Released for Construction
by _____ Date _____
As-Built "Record Drawing"
by _____ Date _____

WELL #4 AND ELEVATED TANK #3
FOR
HOLT WATER WORKS, INC

OKALOOSA COUNTY
FLORIDA

REVISION		



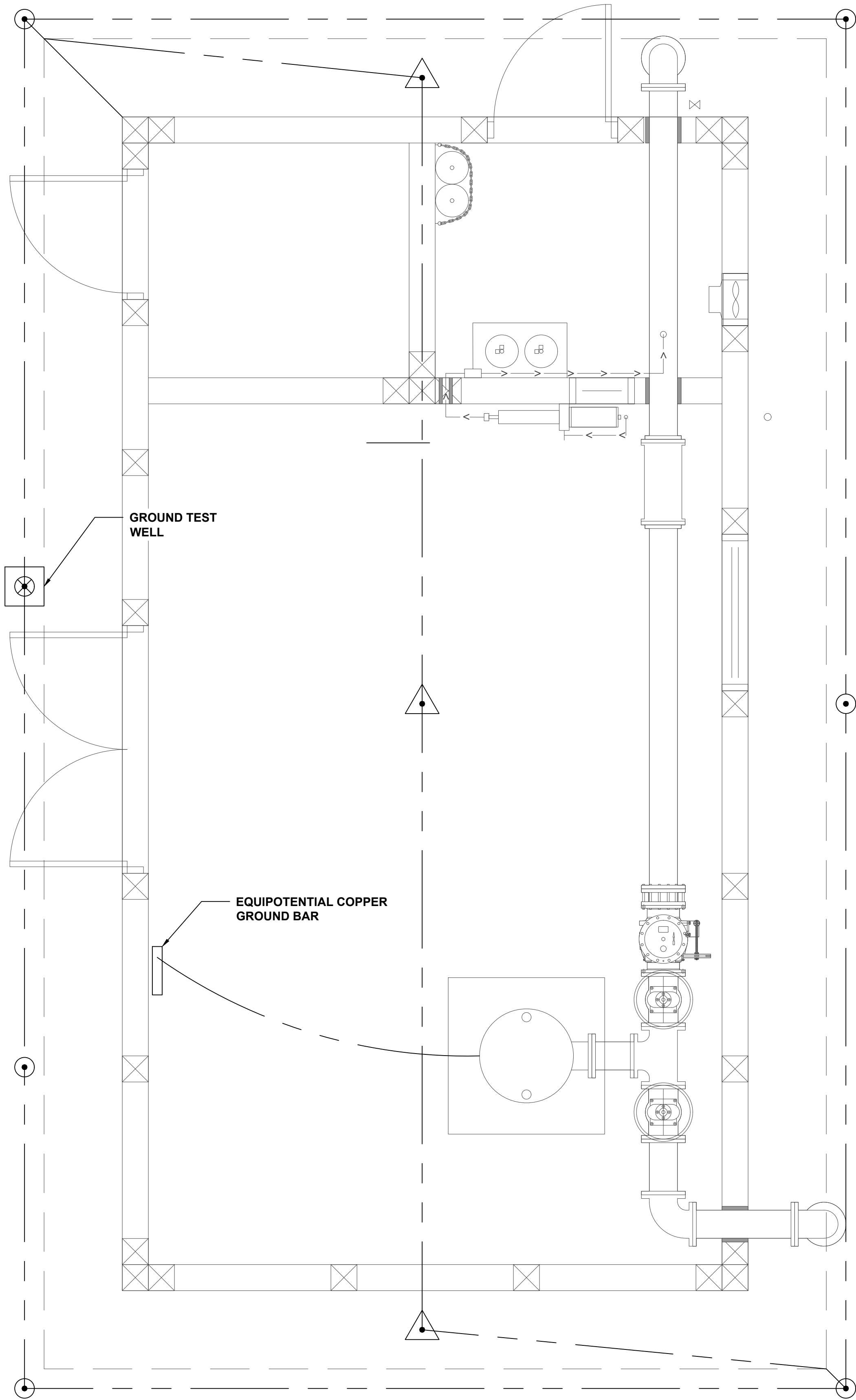
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DRAWN BY: RJM

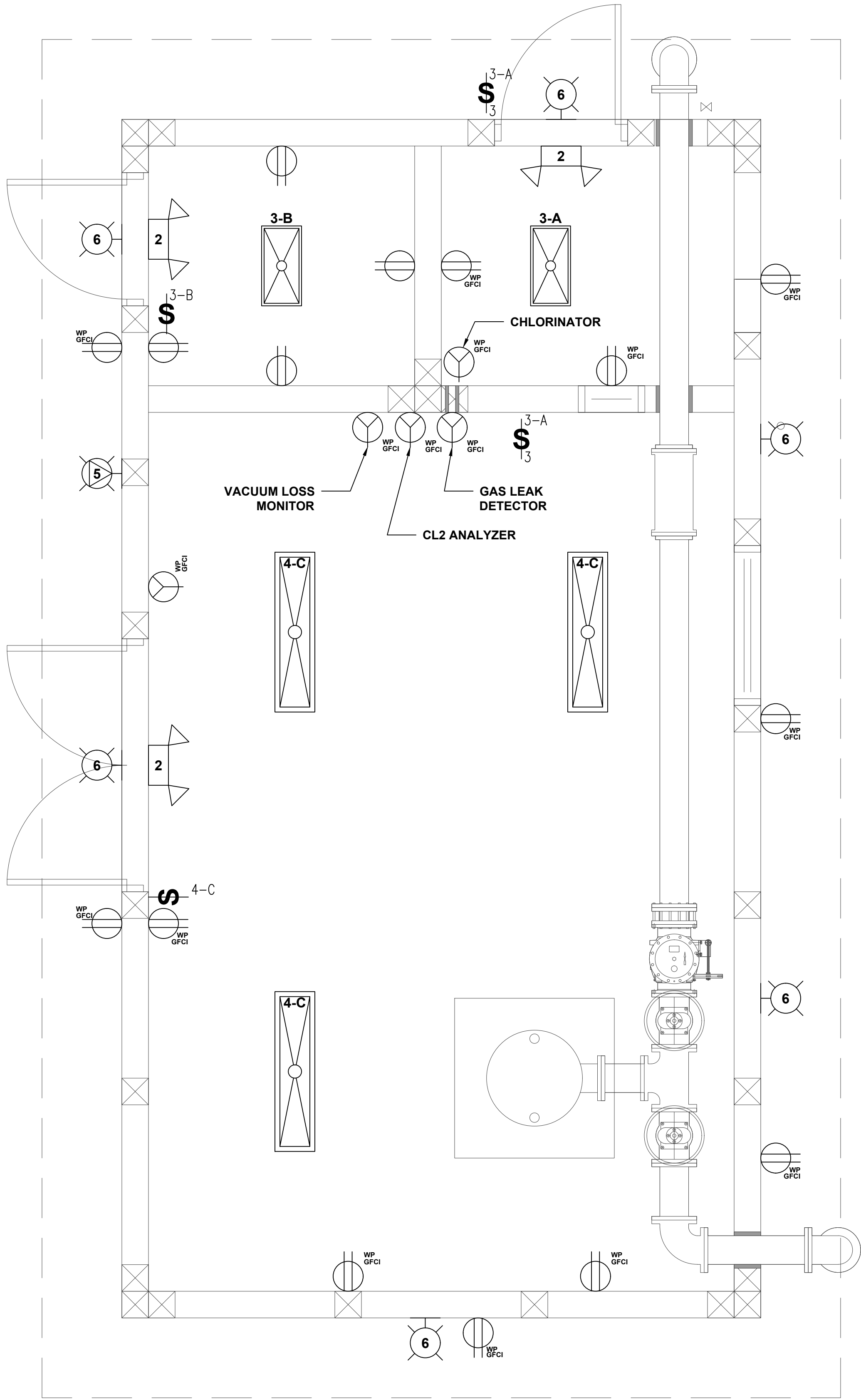
FILENAME: SEE LEFT
DESIGNED BY: RJA

SHEET:
E-111



PROPOSED WELL BUILDING GROUNDING PLAN
SCALE: 1" = 2'-0"

1. SEE GROUNDING DETAILS ON SHT E-901



PROPOSED WELL BUILDING LIGHTING AND RECEPTACLES PLAN
SCALE: 1" = 2'-0"

1. SWITCH AND LIGHT TAGGING SCHEME (X-Y) WHERE X IS THE LIGHT TYPE AND Y IS THE SWITCHING DEVICE.
2. ALL GFCI RECEPTACLES ARE TO ACT INDEPENDENTLY.
3. CONDUIT SHALL BE AS STRAIGHT AND SHORT AS SIZE CONDITION ALLOWS.
4. MOUNT CL2 ROOM SWITCHES IN NEAR PROXIMITY TO THE OBSERVATION WINDOW.

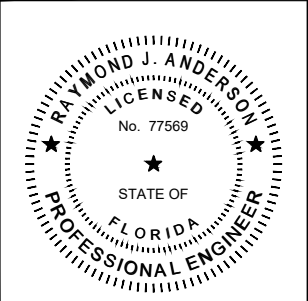


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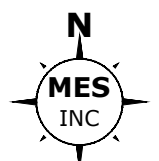
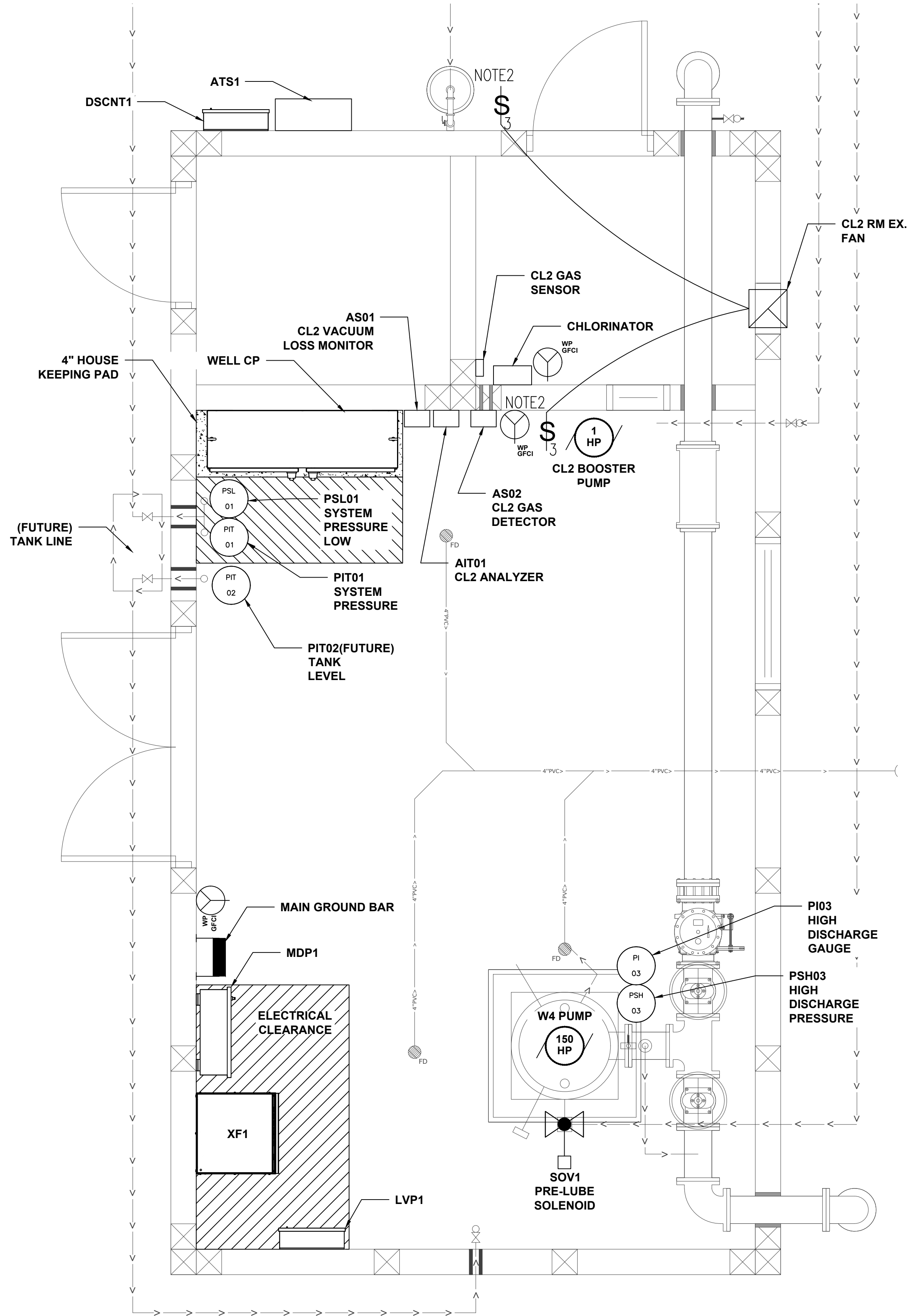
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DATE: FEBRUARY 2025	FILENAME: SEE LEFT
JOB NUMBER: 190002-01	DESIGNED BY: RJA
DRAWN BY: RJA	DESIGNED BY: RJA



PROPOSED WELL BUILDING ELECTRICAL EQUIPMENT PLAN
SCALE: 1" = 2'-0"

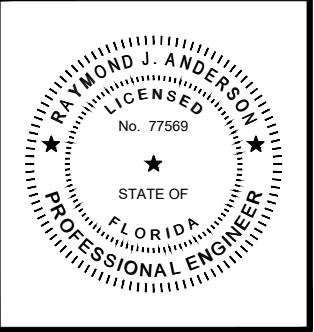
1. CONDUIT SHALL BE AS STRAIGHT AND SHORT AS SIZE CONDITION ALLOWS.
2. EXHAUST FAN SWITCHES SHALL BE ILLUMINATED WHEN THE FAN IS RUNNING. LEVITON 1223-PLC



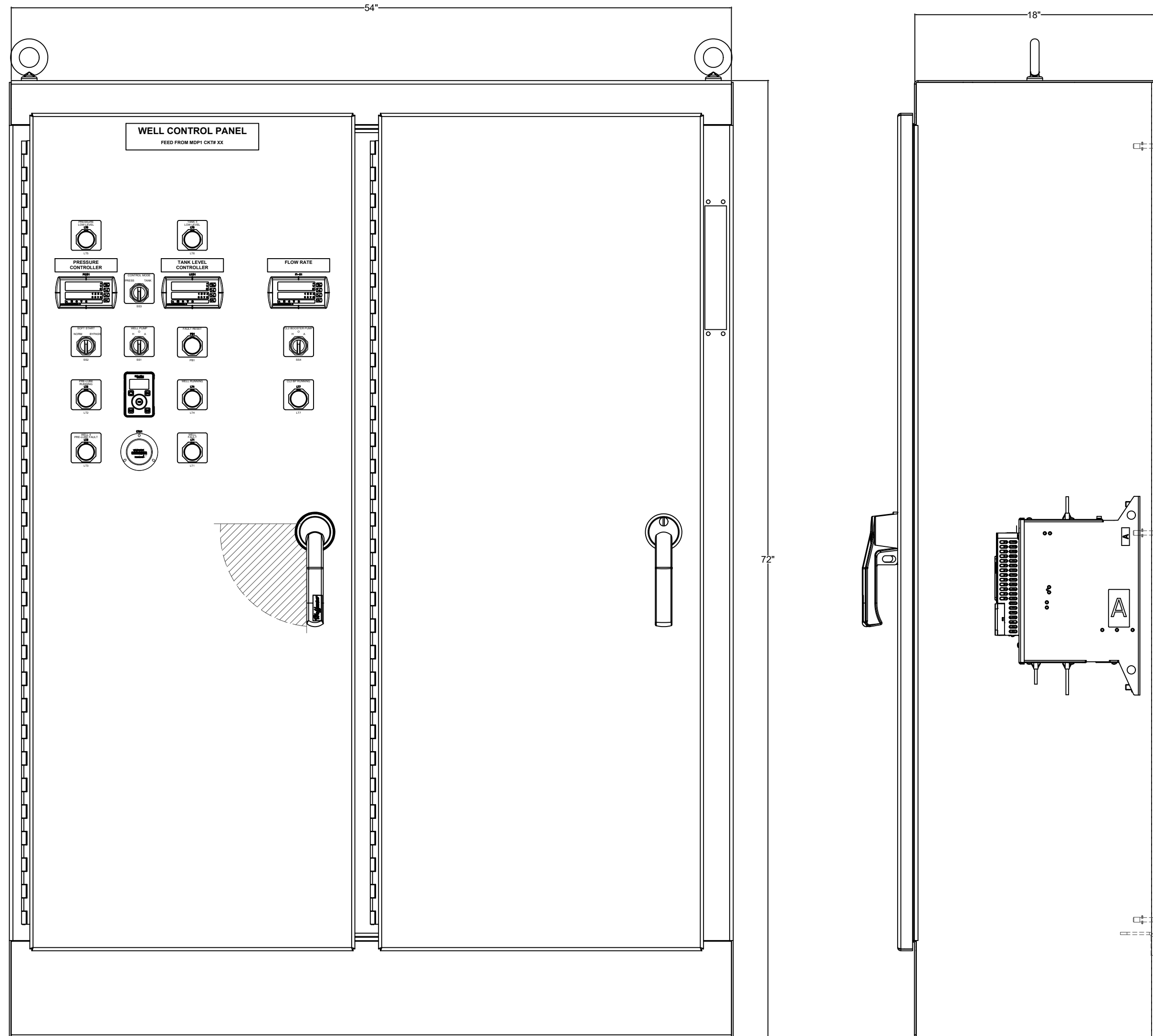
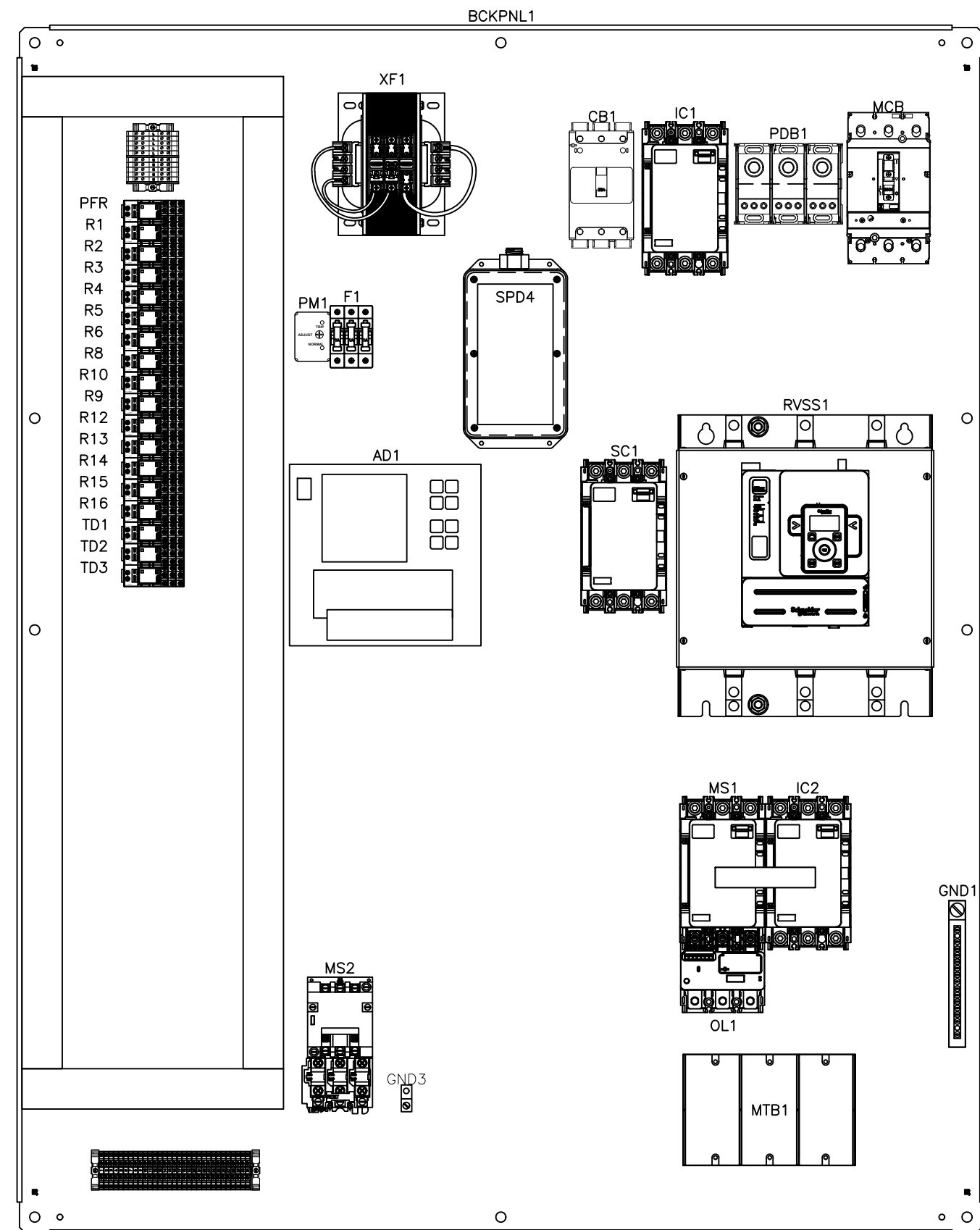
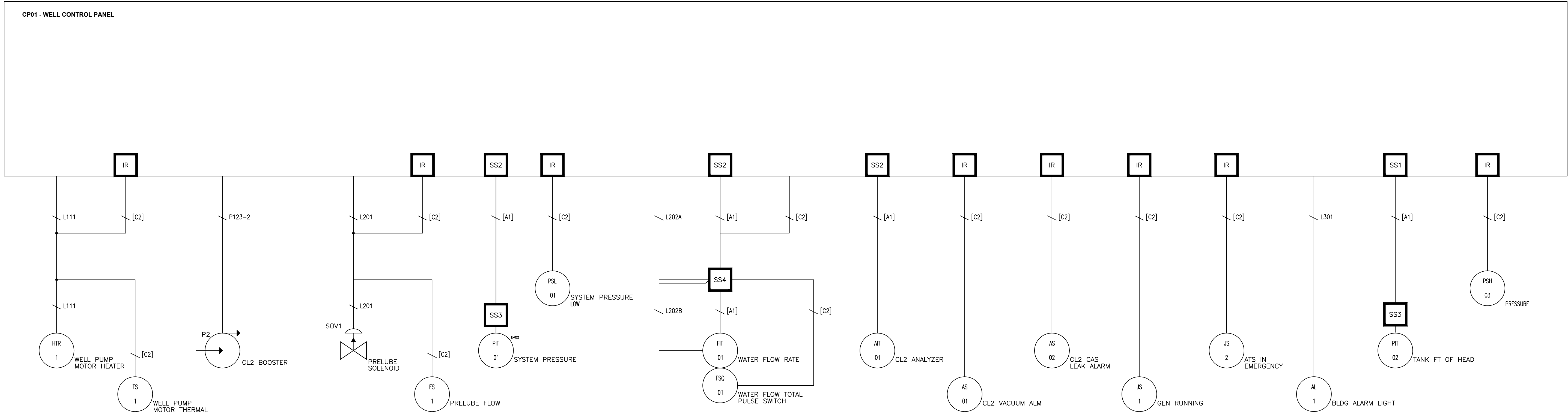
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DATE: FEBRUARY 2025	FILENAME: SEE LEFT
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CONTROL PANEL LAYOUT

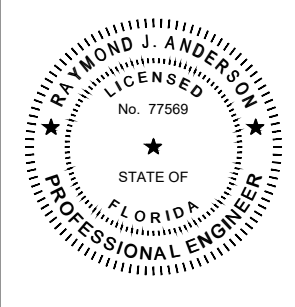
SHEET GENERAL NOTES

1. INSTRUMENT AND CONTROLS MAJOR SCOPE OF SUPPLY
 - 3.1. CP1 WELL CONTROL PANEL
 - 3.2. PRE-LUBE SYSTEM
 - 3.3. PSL01 SWITCH LOW PRESS.
 - 3.3.1. BASIS OF DESIGN: ASHCROFT B SERIES PRESSURE SWITCH
 - 3.4. PIT01 PRESSURE TRANSMITTER
 - 3.4.1. BASIS OF DESIGN: ENDRESS + HAUSER PMP71B-AABAFJH6AA3PFA1VXJA1+AALM
 - 3.5. FIT01 FLOW METER
 - 3.5.1. BASIS OF DESIGN: MCCROMETER METER WITH TRANSMITTERS TR12, TR16
 - 3.6. AIT01 CL2 ANALYZER
 - 3.6.1. BASIS OF DESIGN: HYDRO INSTRUMENTS RPH-260
 - 3.7. AS01 CL2 VACUUM LOSS MONITOR
 - 3.7.1. BASIS OF DESIGN: REGAL VAC 2000 VACUUM MONITOR
 - 3.8. AS02 CL2 GAS DETECTOR
 - 3.8.1. BASIS OF DESIGN: REGAL 3001 CHLORINE GAS DETECTOR
 - 3.9. ALARM LIGHT
 - 3.10. PIO3 PRESSURE GAUGE
 - 3.10.1. BASIS OF DESIGN: ASHCROFT MODEL 1279
 - 3.11. PSH03
 - 3.11.1. BASIS OF DESIGN: ASHCROFT B SERIES PRESSURE SWITCH



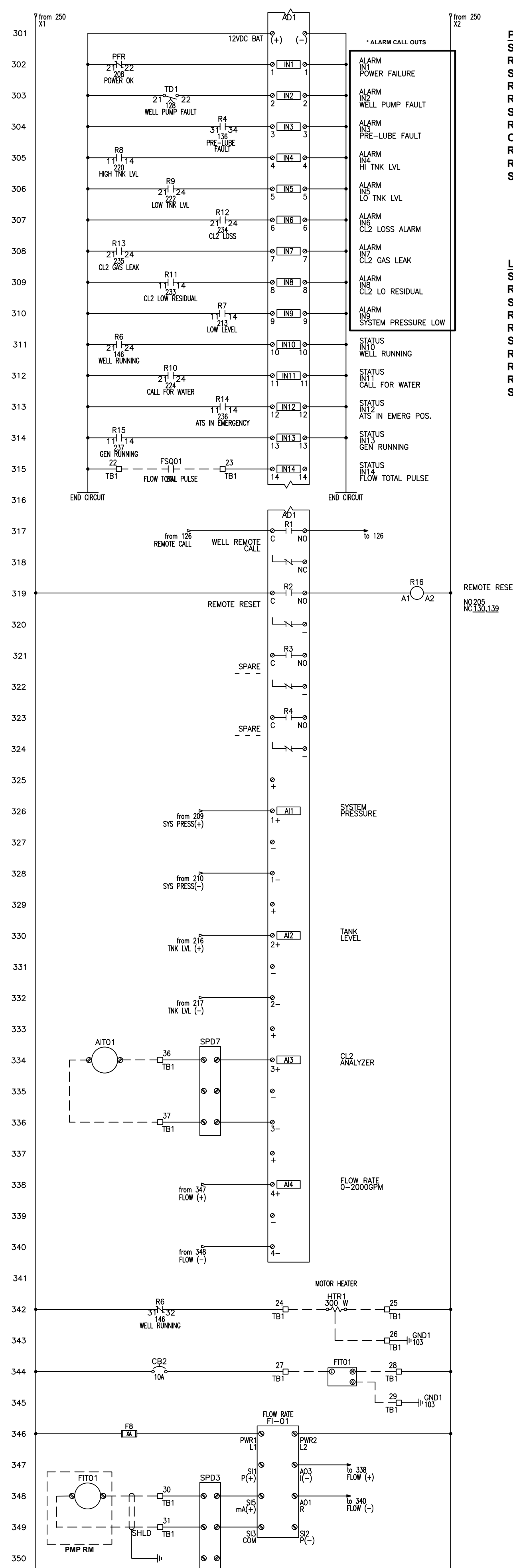
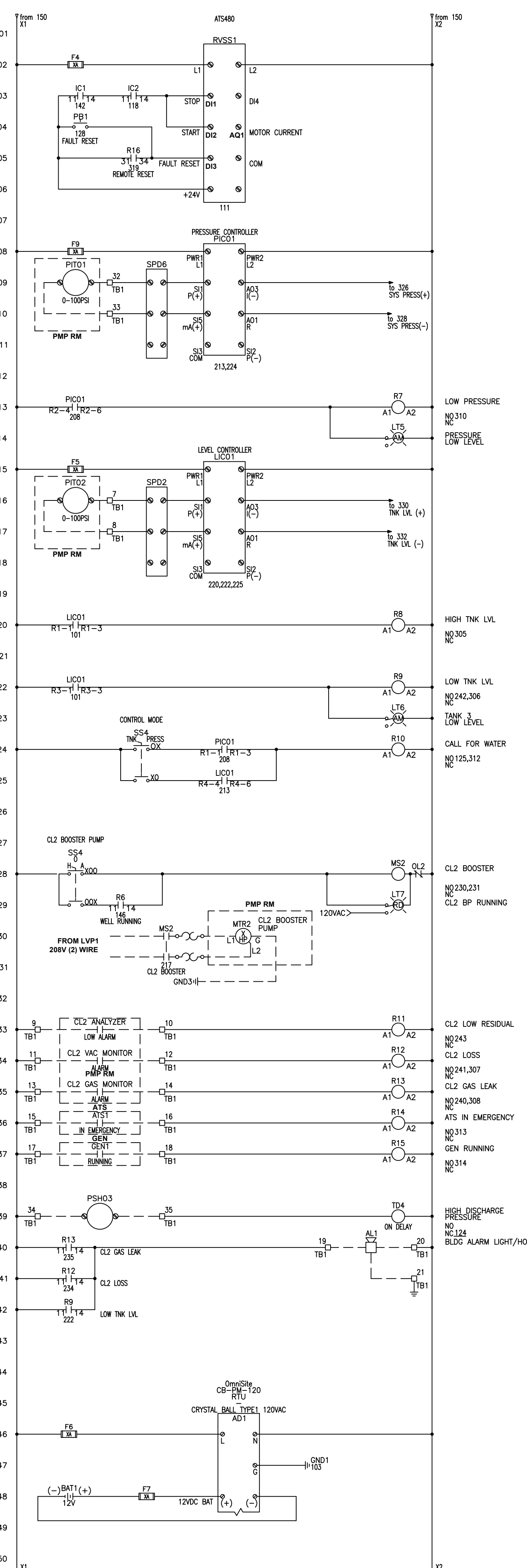
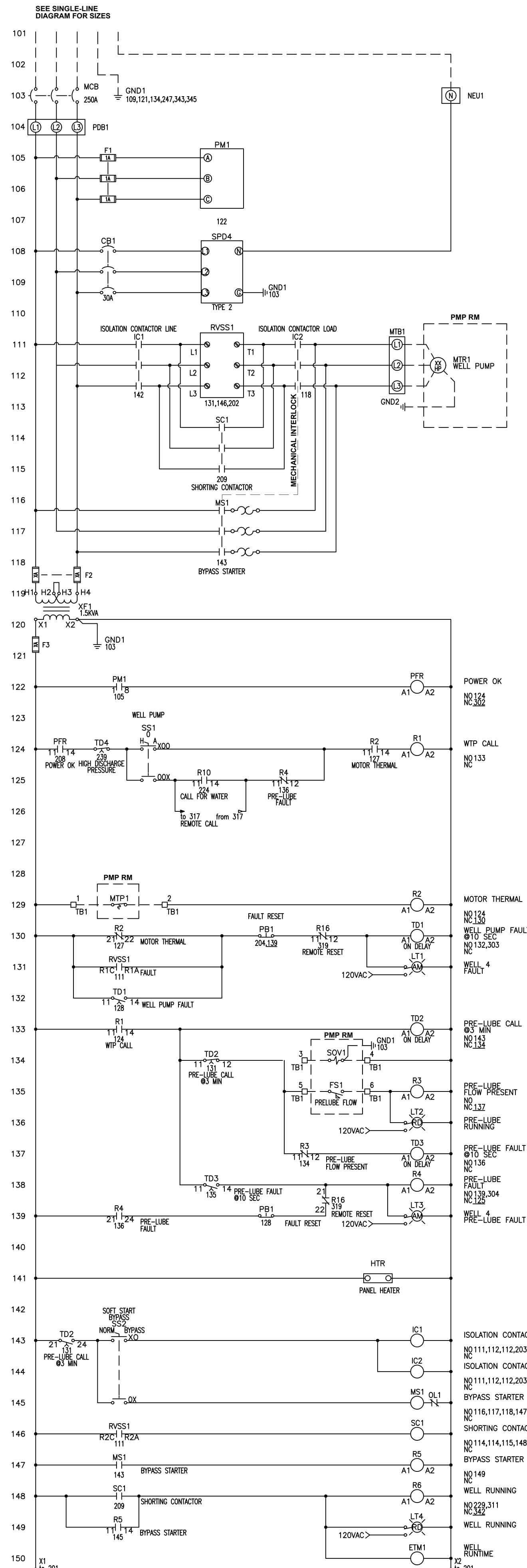
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PRESSURE CONTROLLER SETTINGS

SET POINTS

RELAY 1
SET: TBD PSI (HIGH PRESSURE ALARM ON)
RESET: TBD PSI (HIGH PRESSURE ALARM OFF)

RELAY 2
SET: TBD PSI (ON PRESSURE)
RESET: TBD PSI (OFF PRESSURE)
OFF DELAY: TBD SECONDS

RELAY 3
RESET: TBD PSI (LOW PRESSURE ALARM OFF)
SET: TBD PSI (LOW PRESSURE ALARM ON)

LEVEL CONTROLLER SETTINGS

SET POINTS

RELAY 1
SET: TBD FT (HIGH LEVEL ALARM ON)
RESET: TBD FT (HIGH LEVEL ALARM OFF)

RELAY 2
SET: TBD FT (ON LEVEL)
RESET: TBD FT (OFF LEVEL)

RELAY 3
RESET: TBD FT (LOW LEVEL ALARM OFF)
SET: TBD FT (LOW LEVEL ALARM ON)



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CERTIFICATE OF AUTHORIZATION: CA-50866

WELL CONTROL SCHEMATICS

As-Built "Record Drawing" by _____ Date _____

NOT Released for Construction by _____ Date _____

WELL #4 AND ELEVATED TANK #3 FOR HOLT WATER WORKS, INC

FLORIDA OKALOOSA COUNTY

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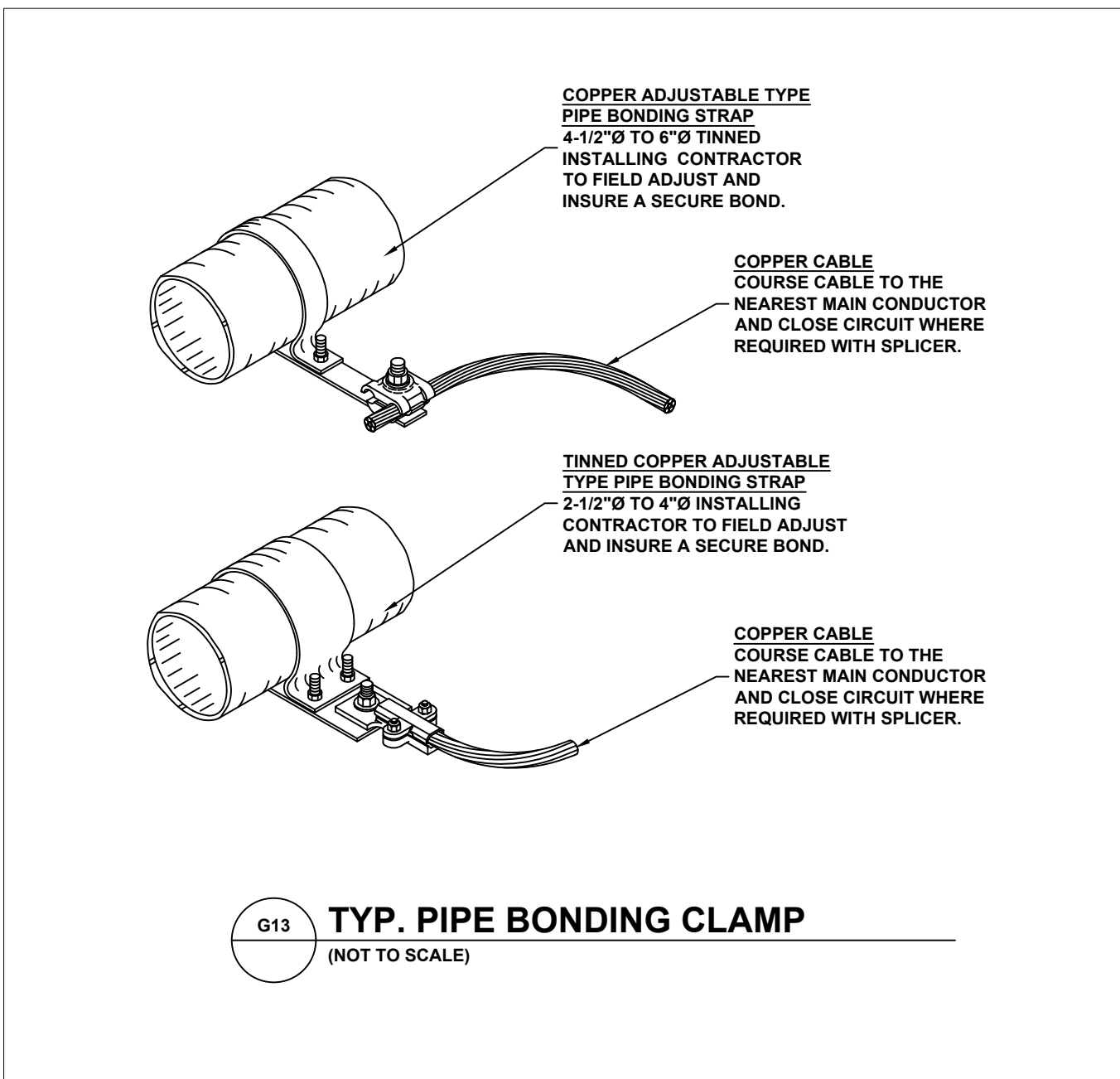
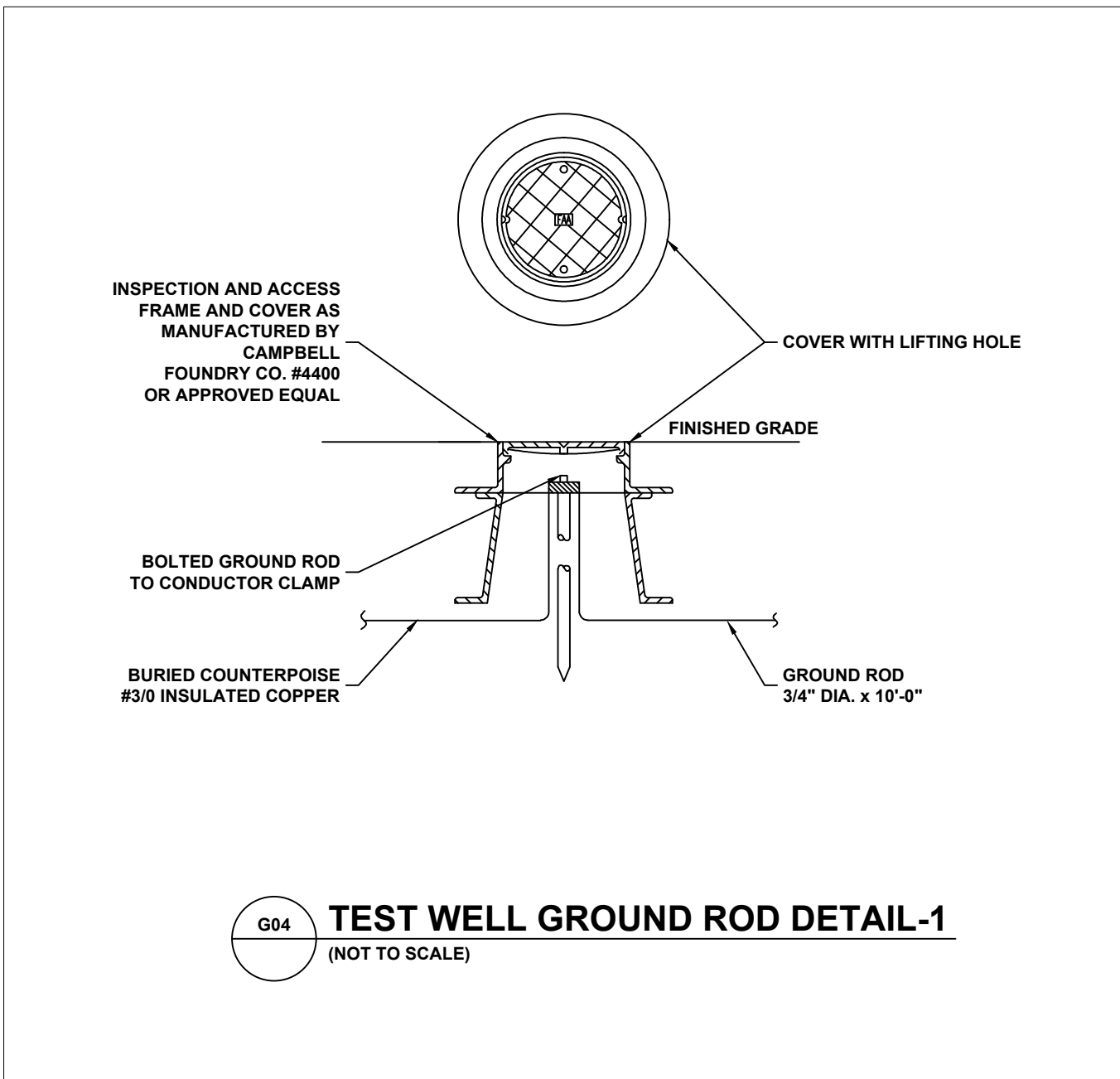
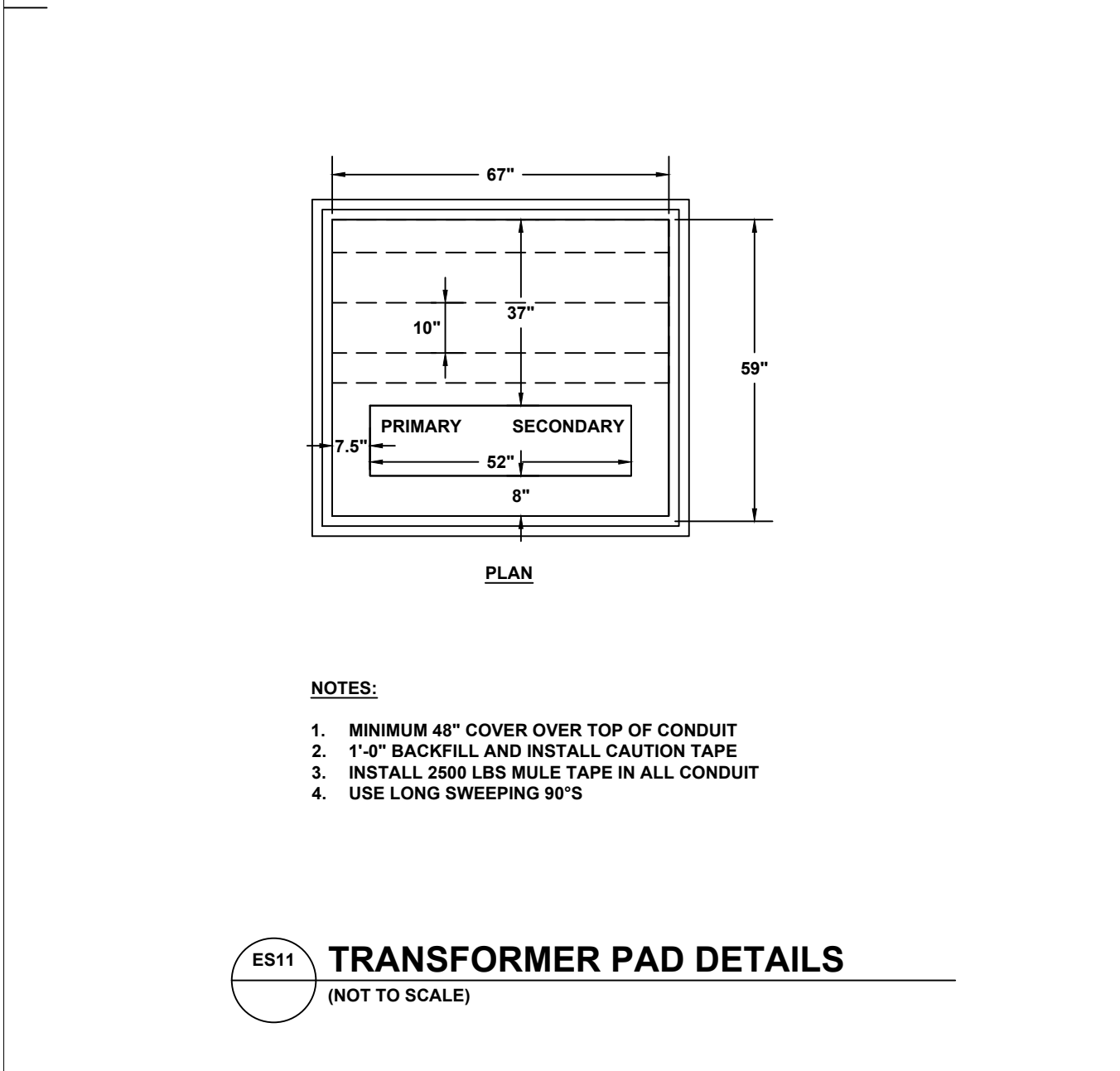
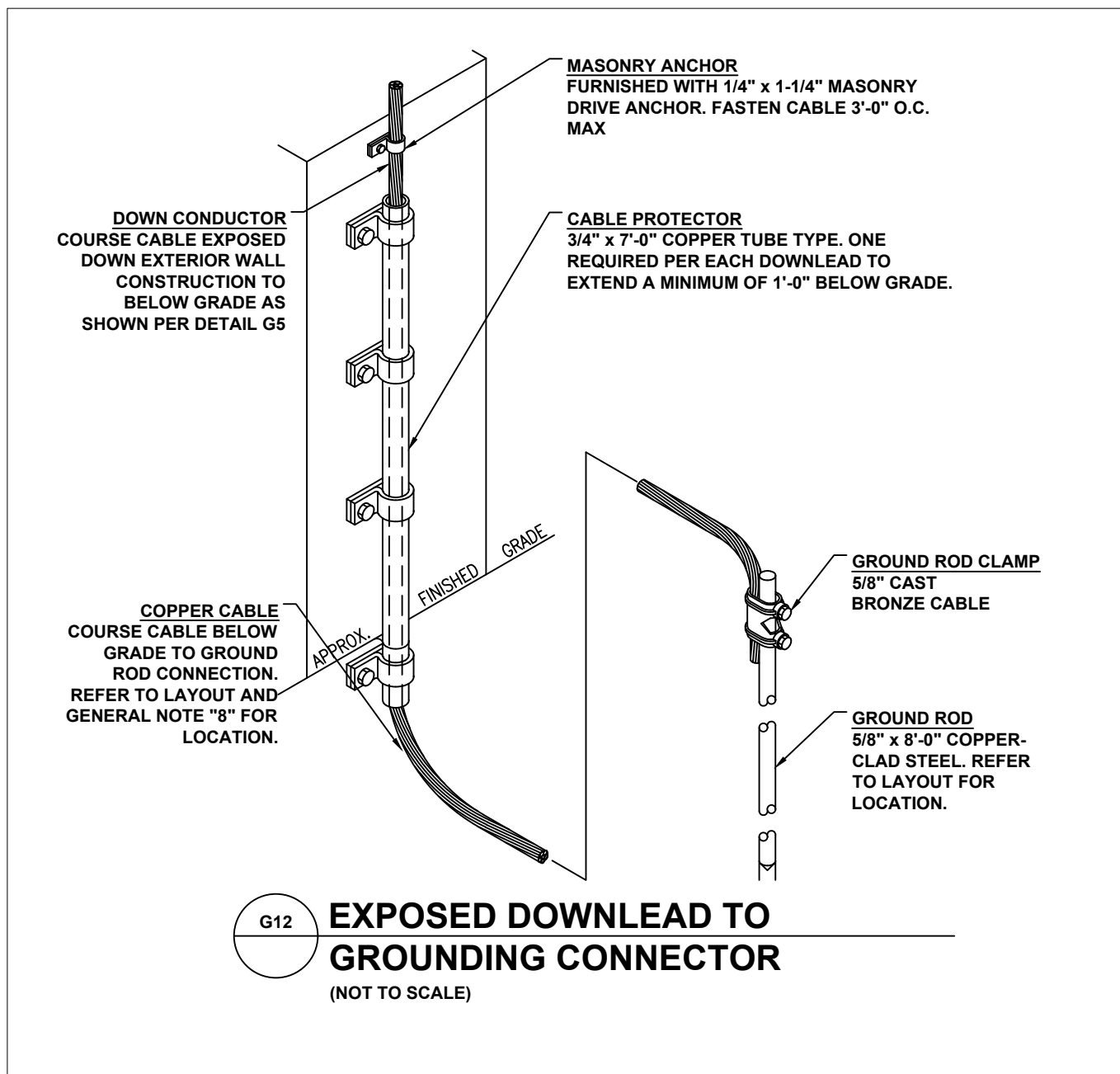
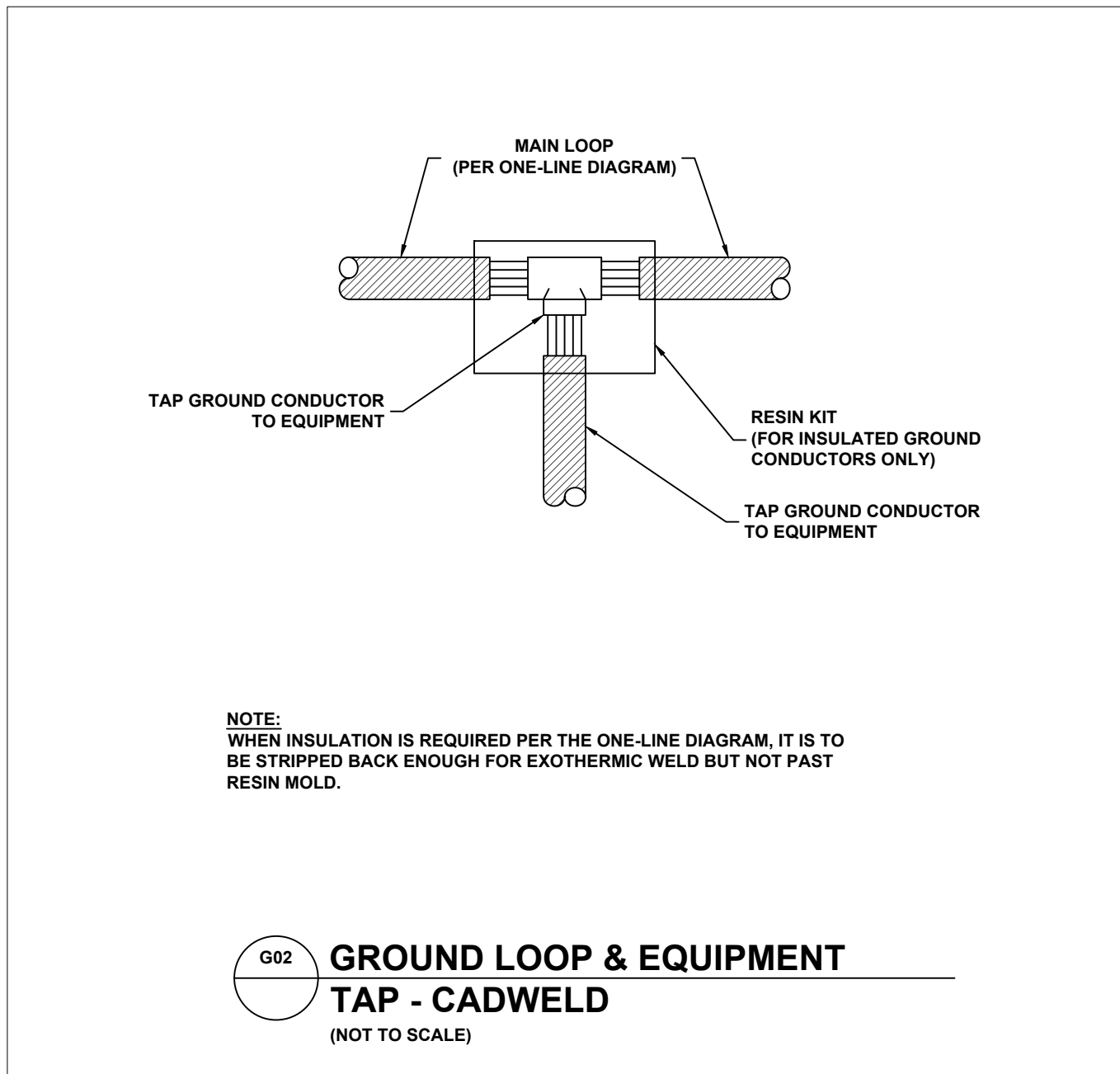
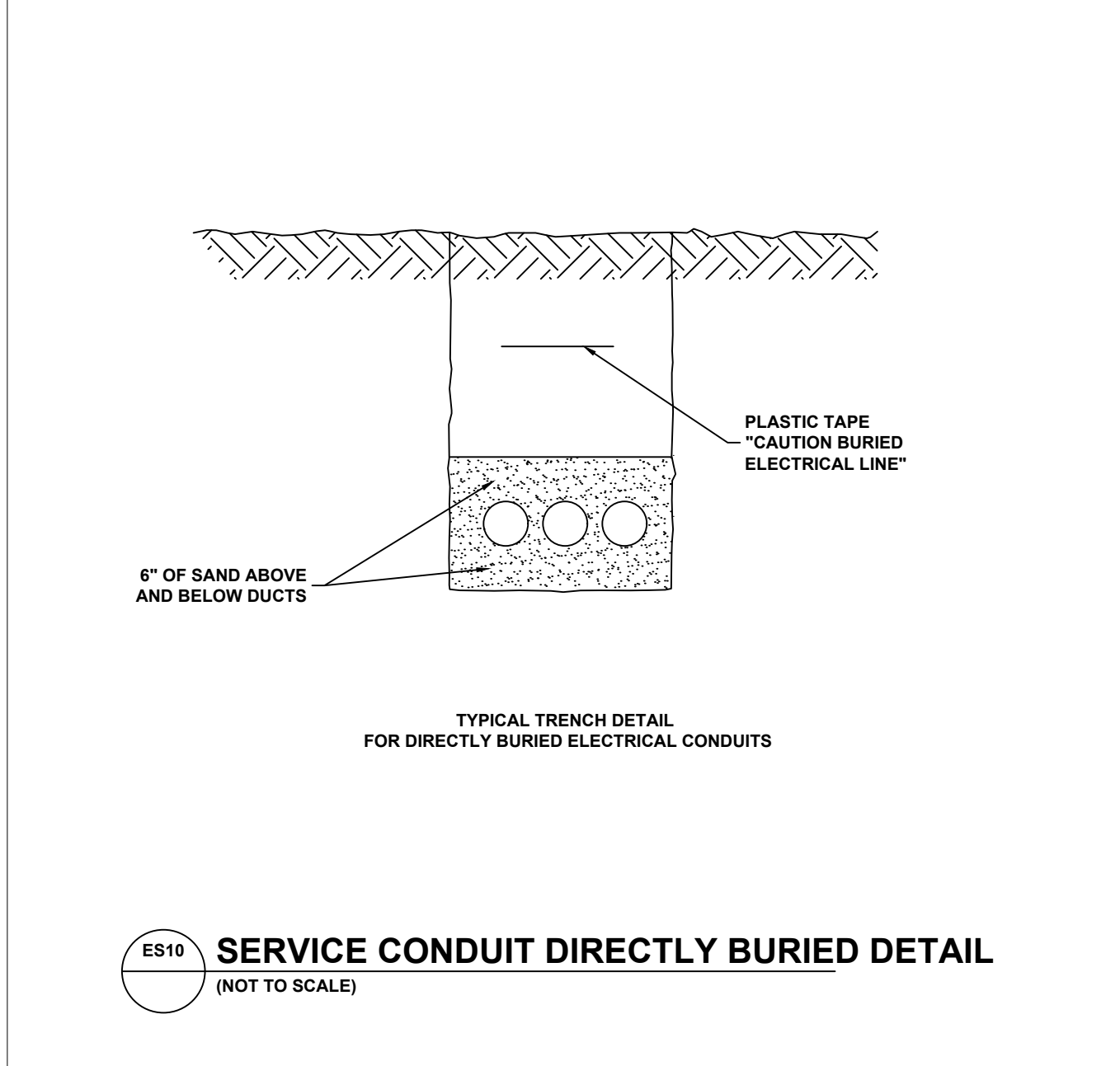
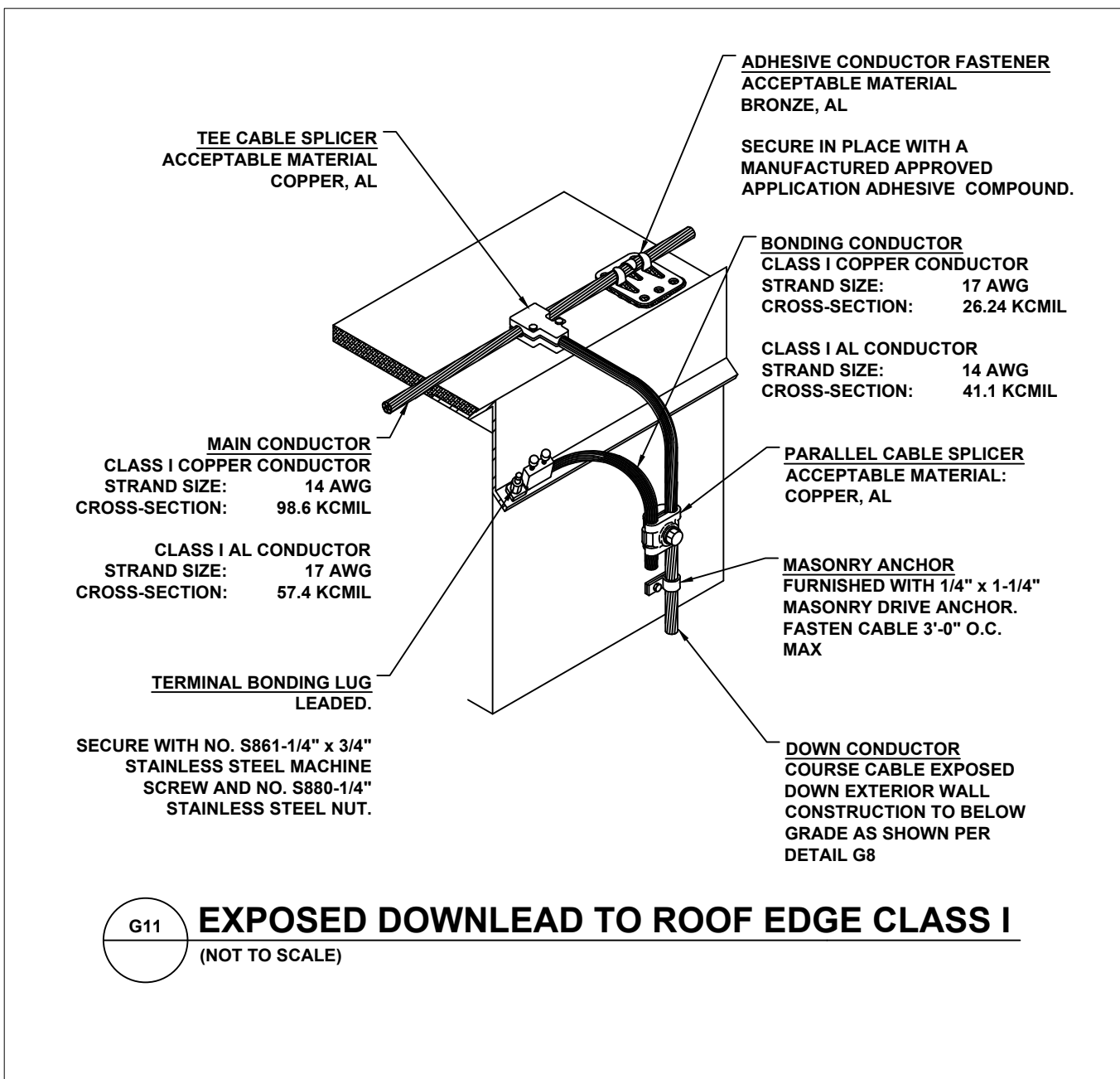
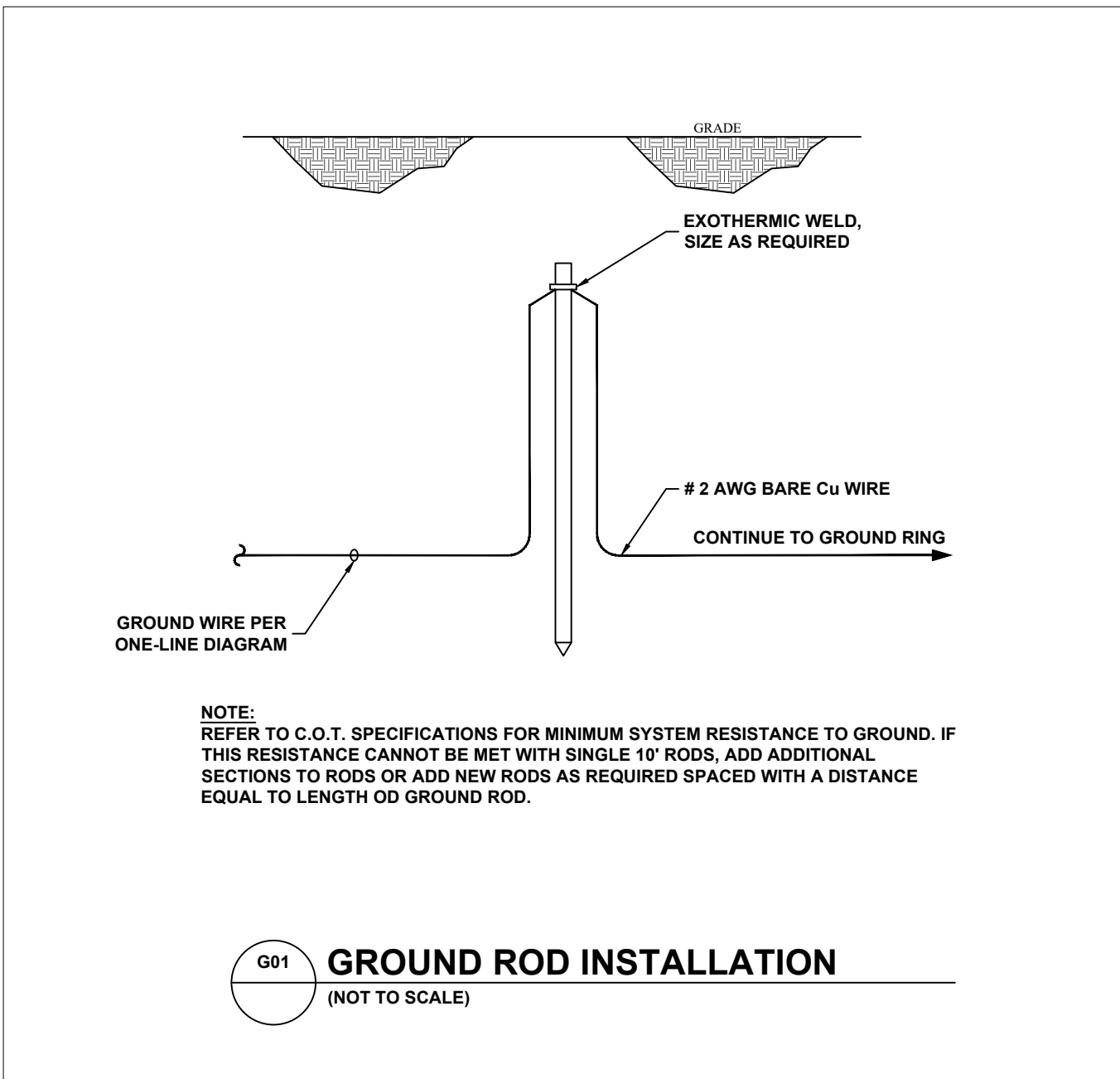
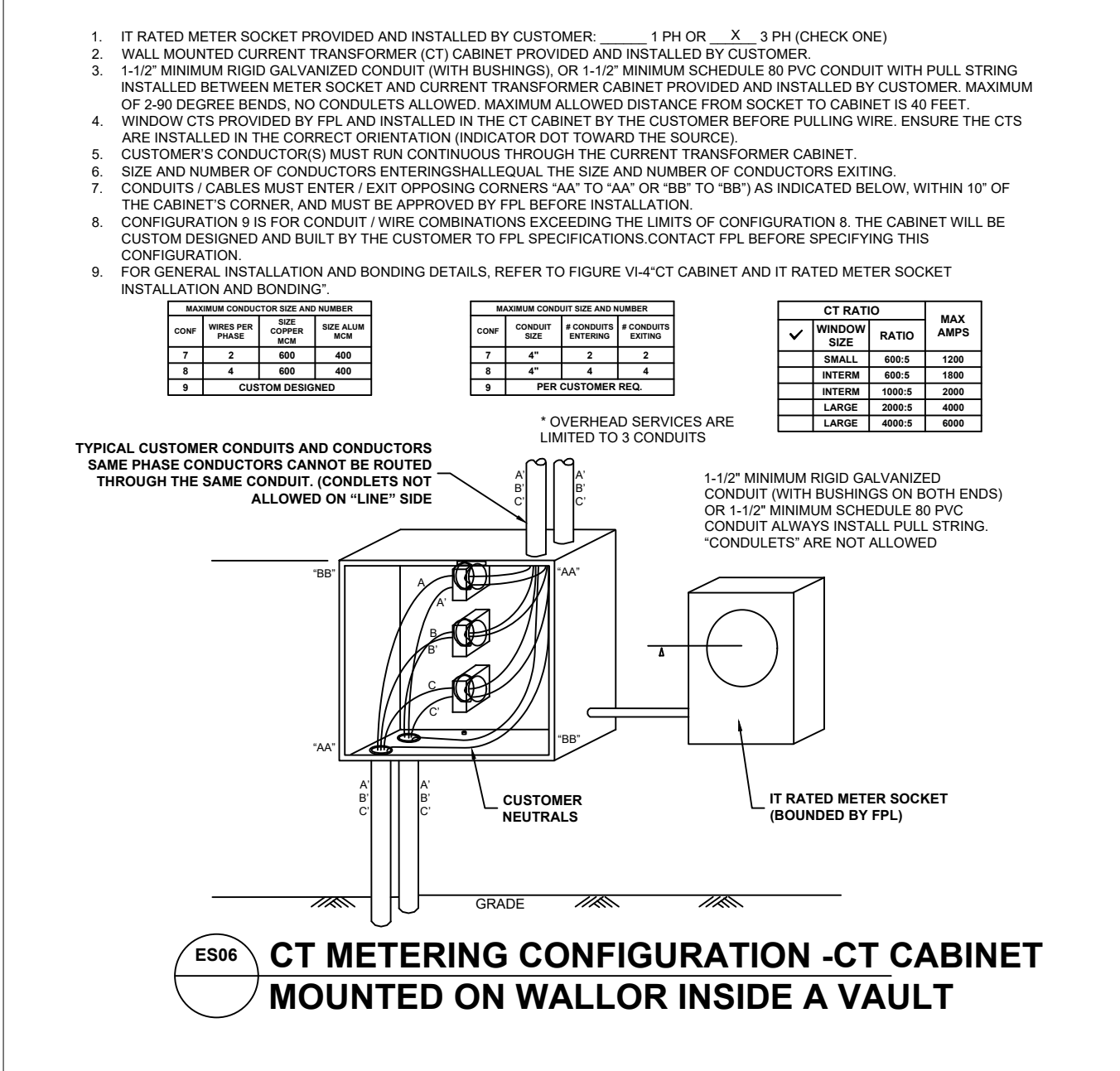
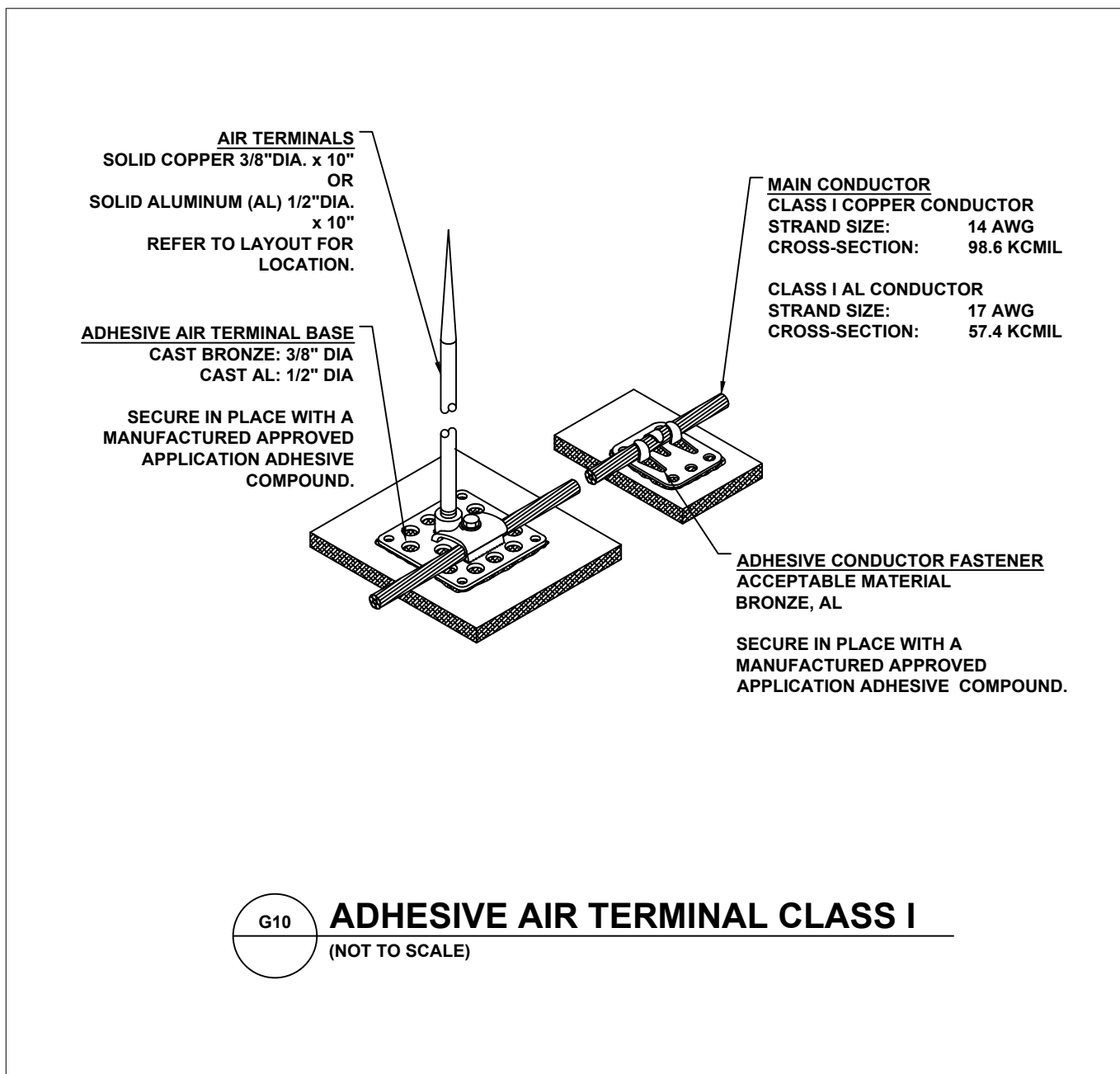
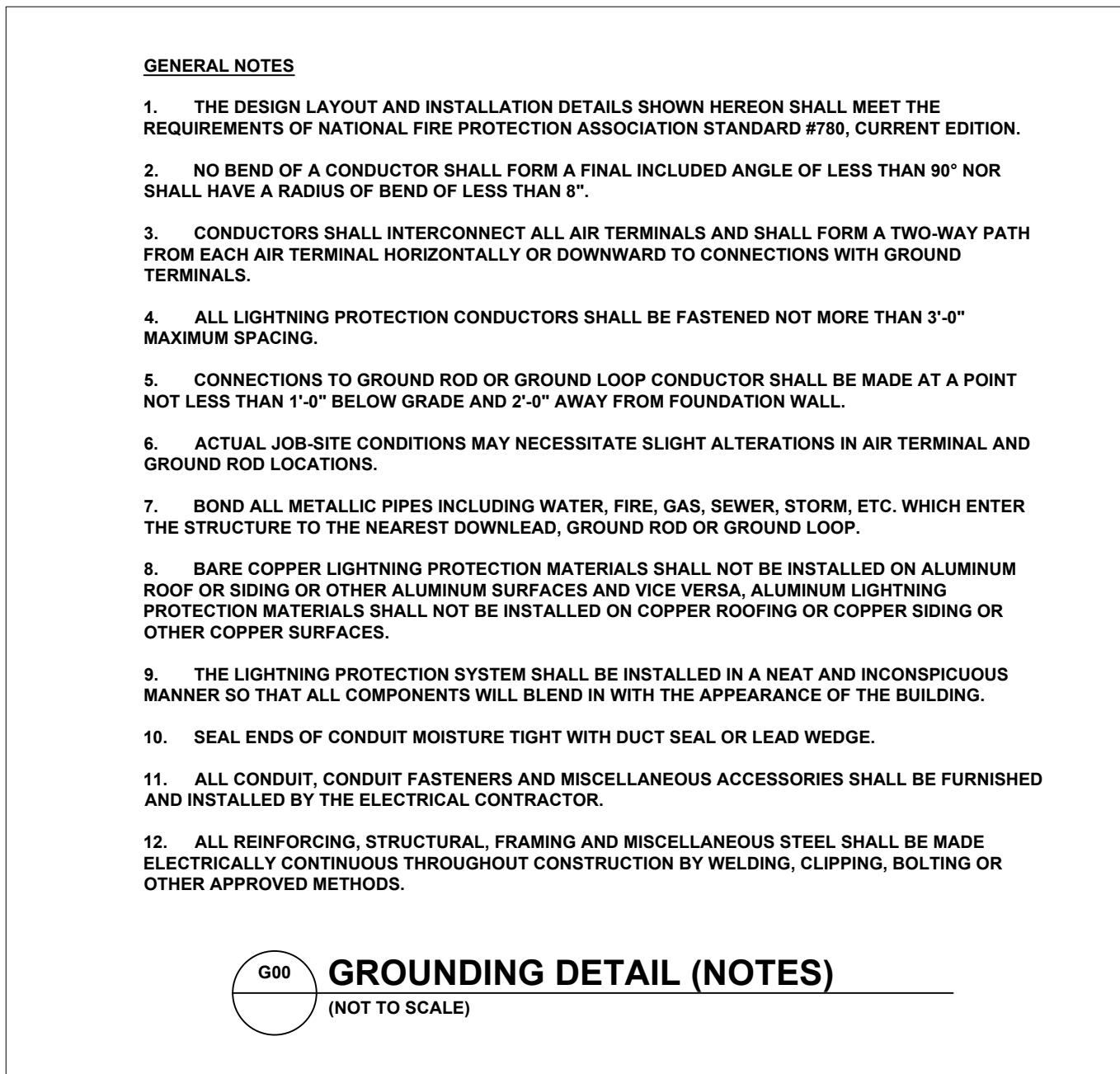
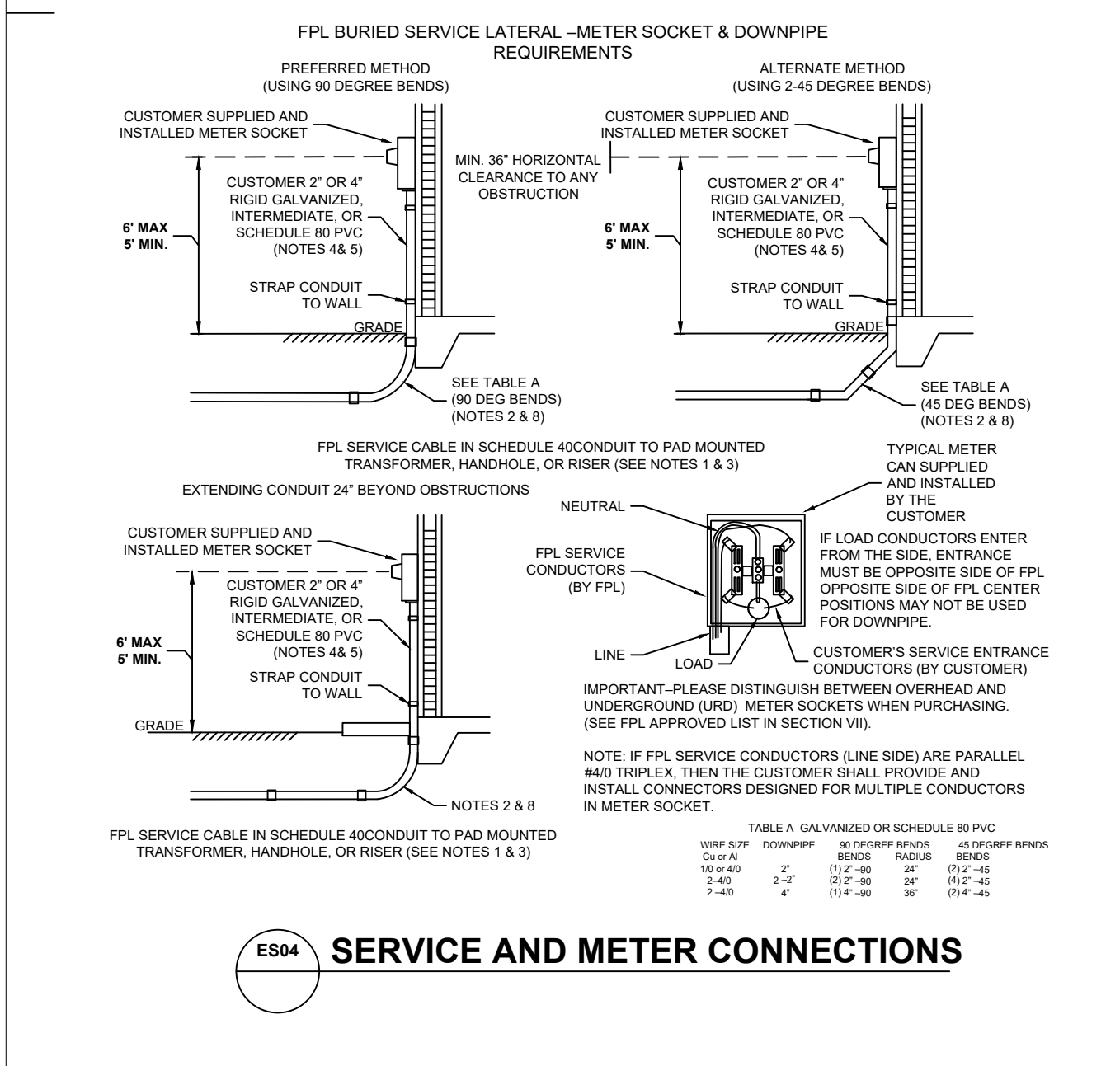
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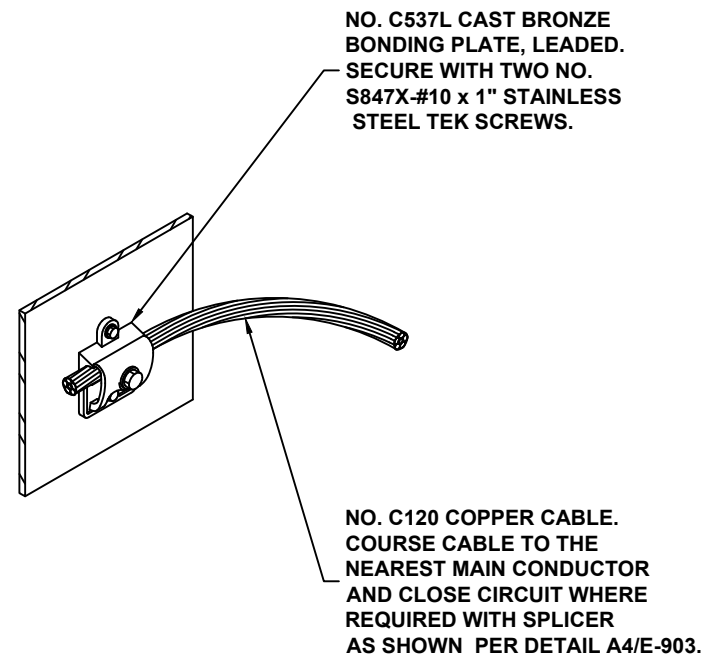
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JOB NUMBER: 190002-01 FILENAME: SEE LEFT

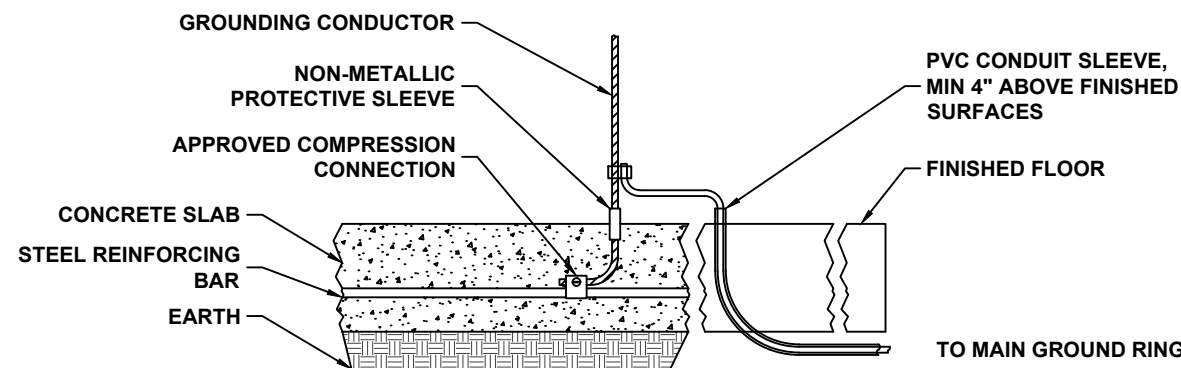
DRAWN BY: RJA DESIGNED BY: RJA

SHEET: E-132

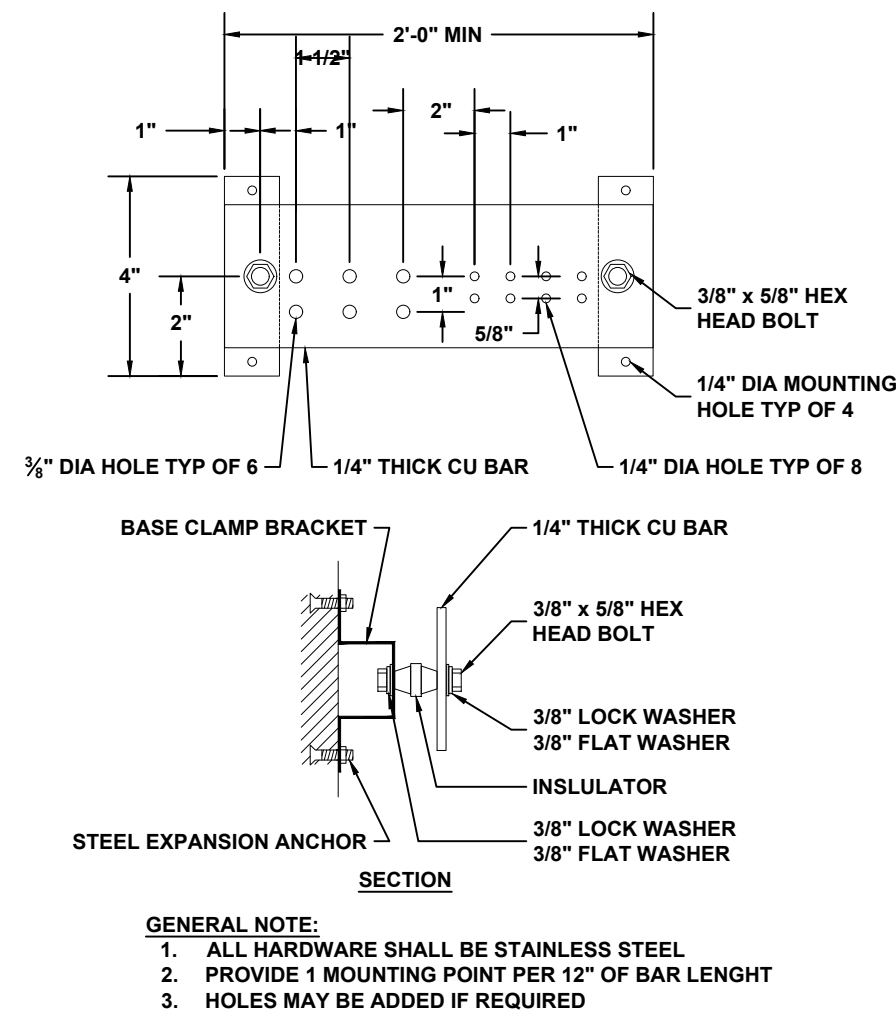




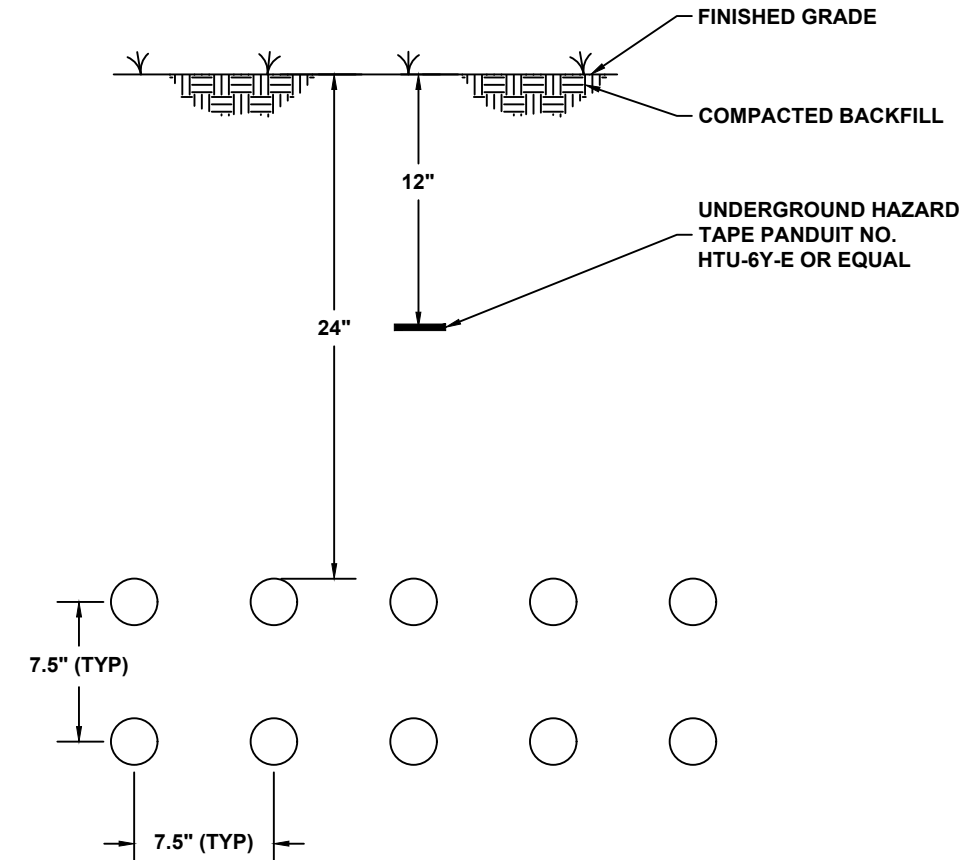
G14 TYP. EQUIPMENT HOOSING BOND
(NOT TO SCALE)



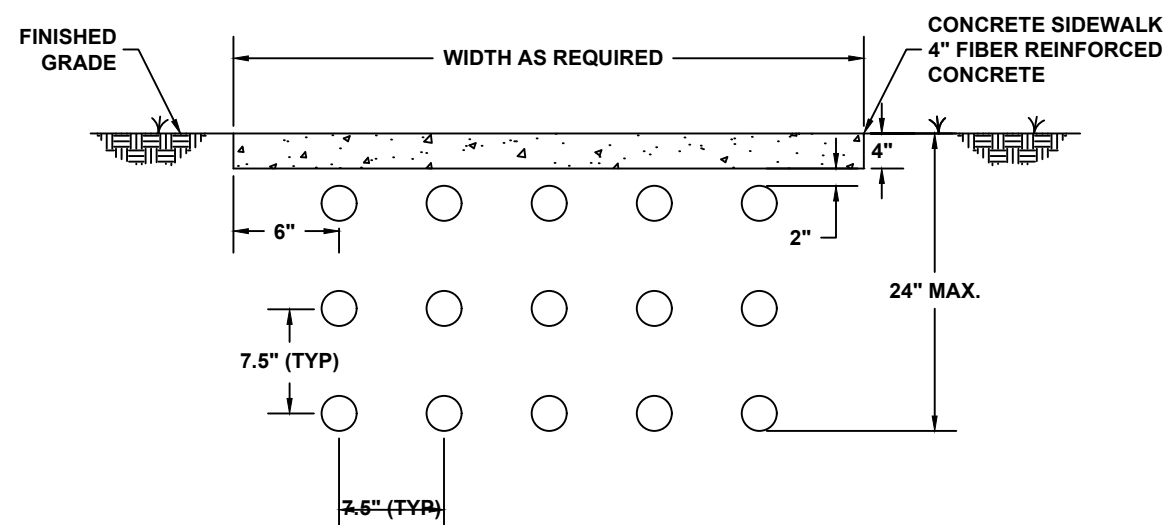
G15 SLAB GROUNDING & STUB UP DETAIL
(NOT TO SCALE)



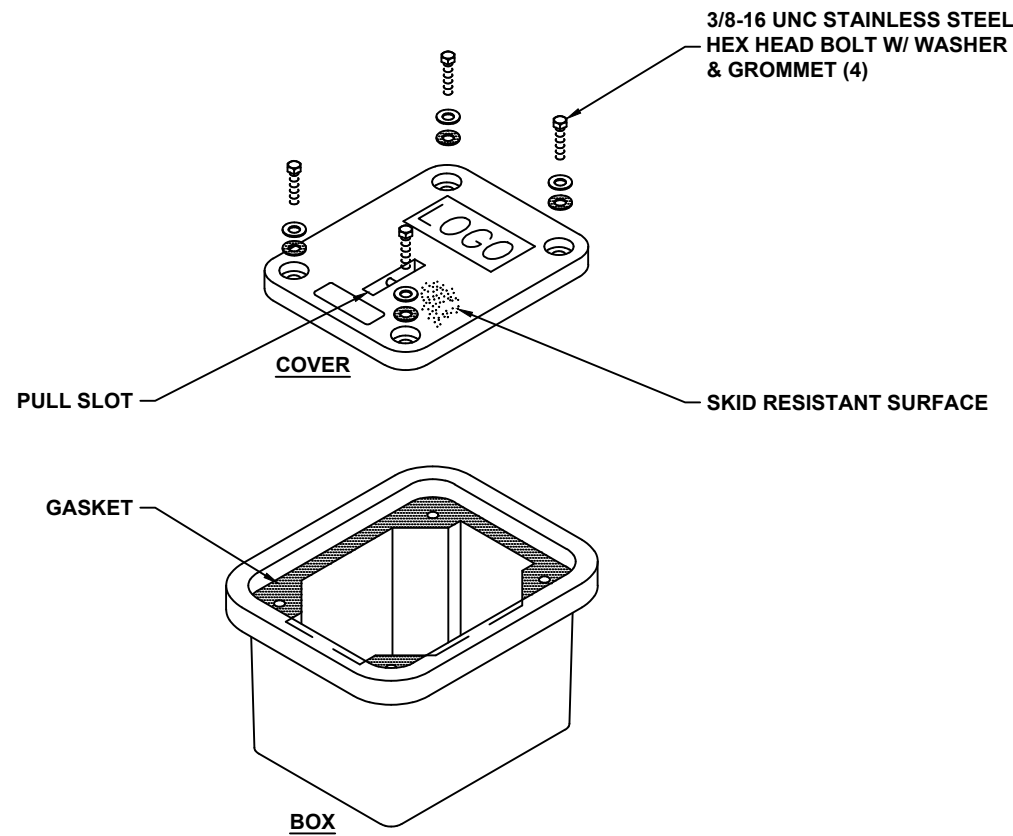
G20 GROUNDING BAR DETAIL
(NOT TO SCALE)



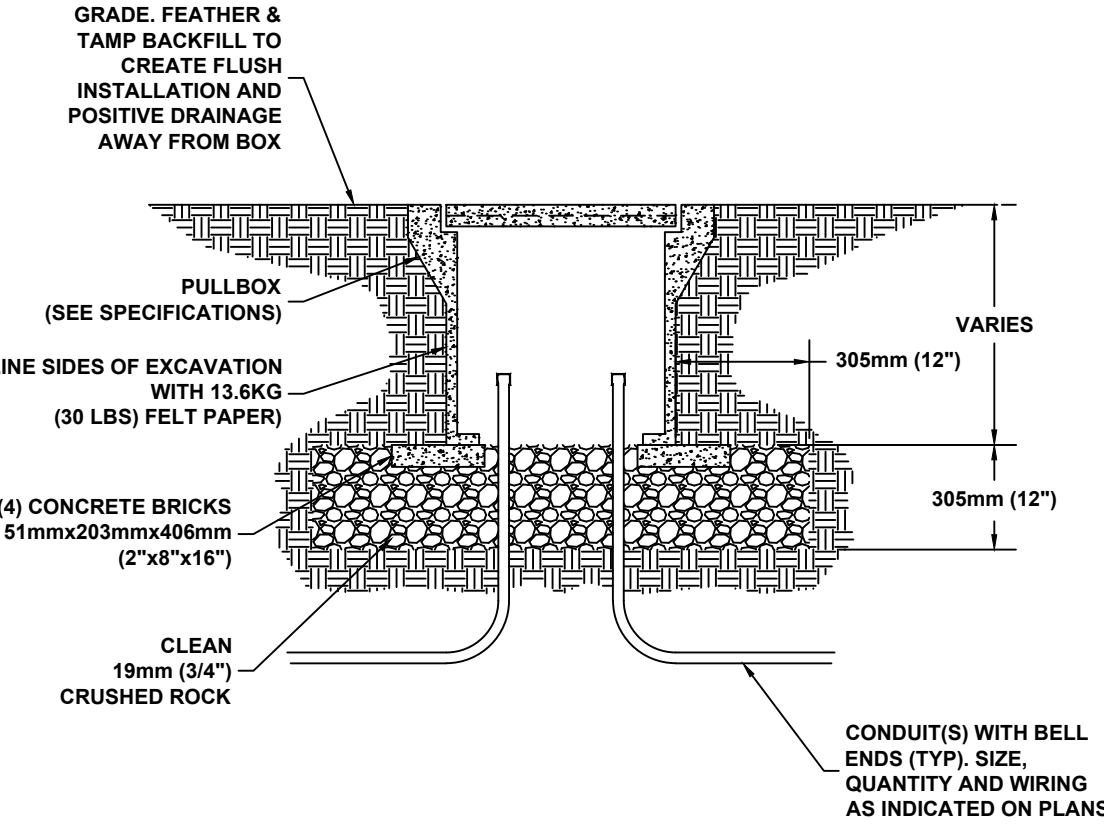
C03 UNDERGROUND POWER/CONTROL CONDUIT INSTALLATION (NON-PROTECTED)
(NOT TO SCALE)



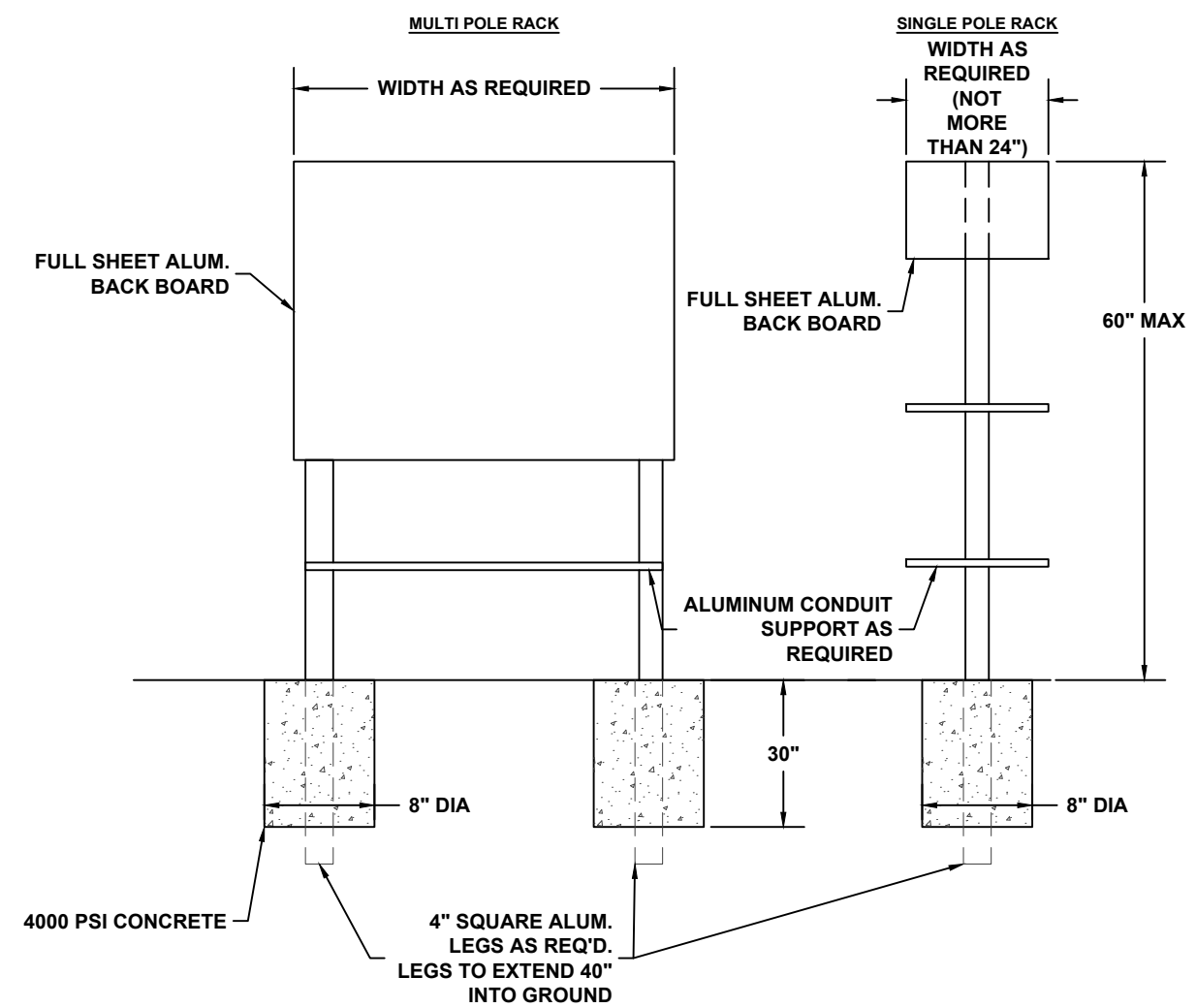
C04 UNDER SIDEWALK UNDERGROUND CONDUIT INSTALLATION
(NOT TO SCALE)



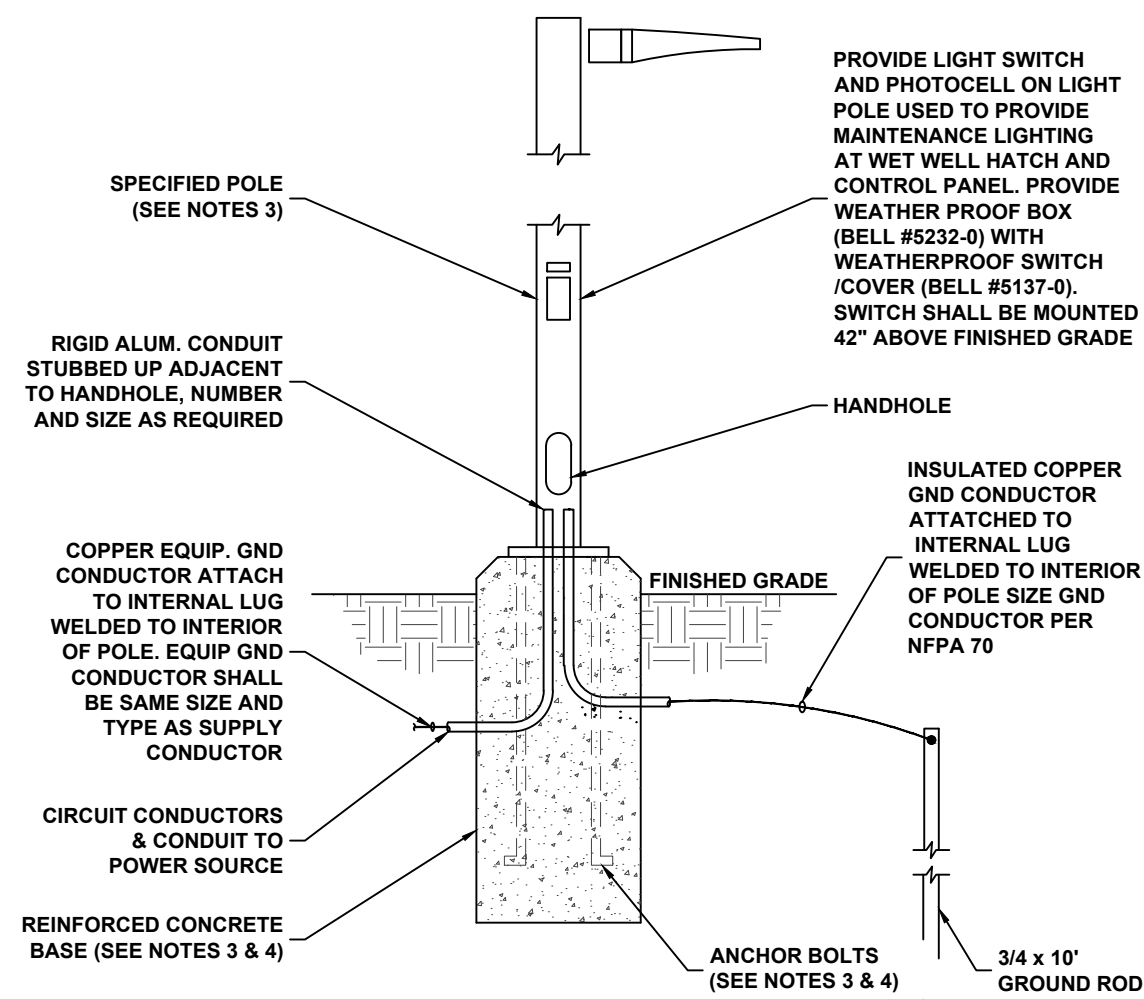
E1 SMALL PULL BOX DETAIL
(NOT TO SCALE)



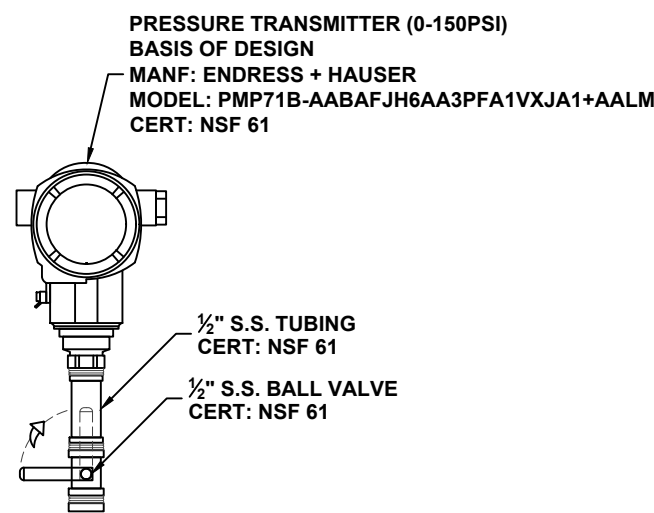
H5 UNDERGROUND CONCRETE PULLBOX - TURF AREAS
(NOT TO SCALE)



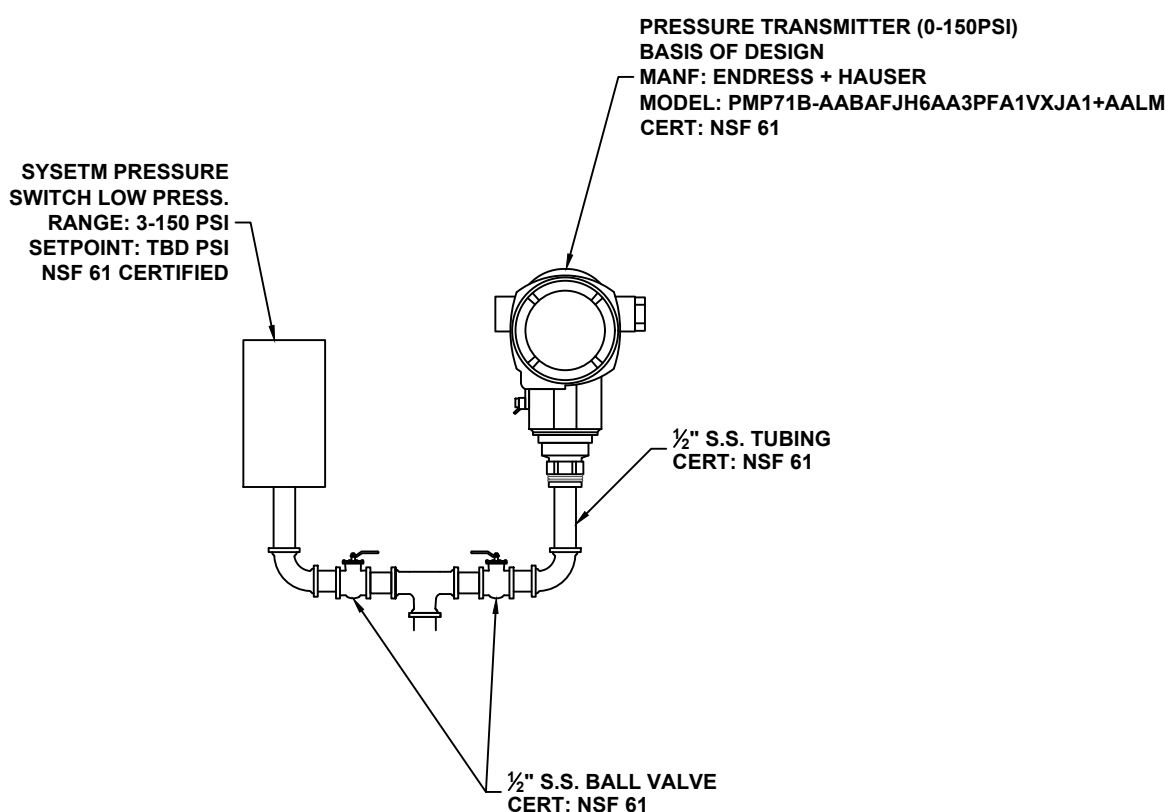
E10 ELECTRICAL RACK DETAIL
(NOT TO SCALE)



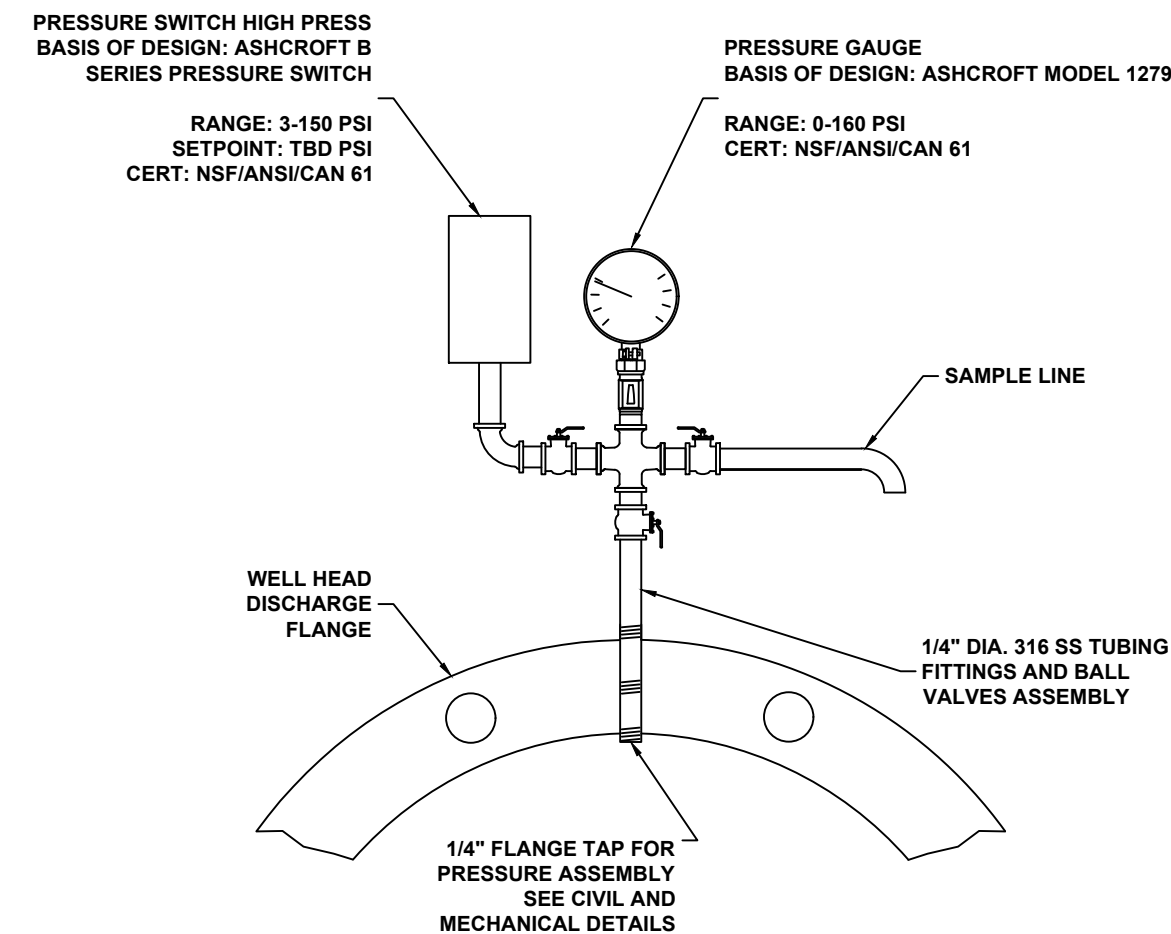
L8 SECURITY LIGHT & WORK LIGHT DETAIL
(NOT TO SCALE)



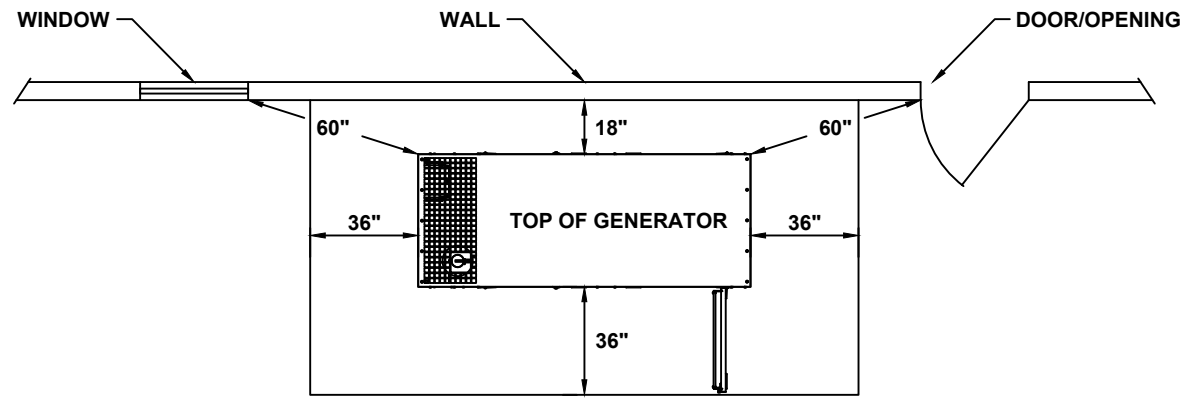
I112 WATER PRESSURE TRANSMITTER DETAIL
(NOT TO SCALE)



I112 PRESSURE TRANSMITTER & SWITCH DETAIL
(NOT TO SCALE)



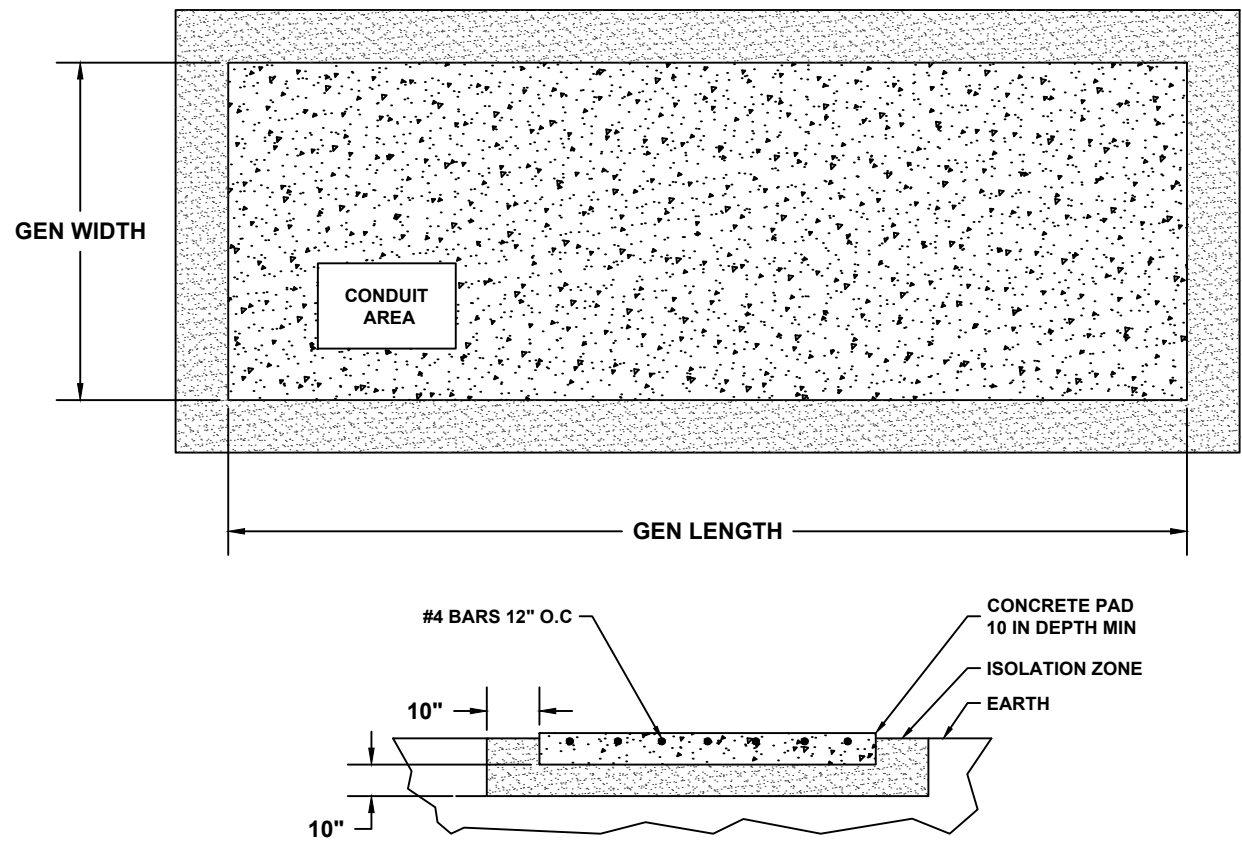
WELL DISCHARGE PRESSURE ASSEMBLY
(NOT TO SCALE)



GENERAL NOTES:

1. NO OPERABLE WINDOWS, DOOR, OR OPENINGS IN WALL PERMITTED WITHIN 5 FT FROM ANY POINT OF THE GENERATOR
2. WORKING CLEARANCE ON ANY OPEN SIDES SHALL BE A MINIMUM OF 36". THIS INCLUDES TREES, SHRUBS, OR BUSHES.
3. WORKING CLEARANCE FROM A WALL WITH NO OPENINGS CAN BE A MINIMUM OF 18". UNLESS THERE IS AN ACCESS PANEL ON THE WALL. SIDE OF THE GENERATOR THEN THE 36" MINIMUM SHALL BE 36".
4. WORKING CLEARANCE ABOVE THE GENERATOR SHALL BE A MINIMUM OF 60" FROM ANY STRUCTURE, OVERHANG, OR PROJECTIONS FROM THE WALL.
5. THE GENERATOR SHALL NOT BE PLACED UNDER A DECK OR OTHER STRUCTURE THAT IS CLOSED IN AND WOULD LIMIT OR CONSTRAIN AIR FLOW.
6. REMOVABLE FENCE PANELS FOR SERVICING SHALL NOT BE PLACED LESS THAN 18" FROM THE GENERATOR.

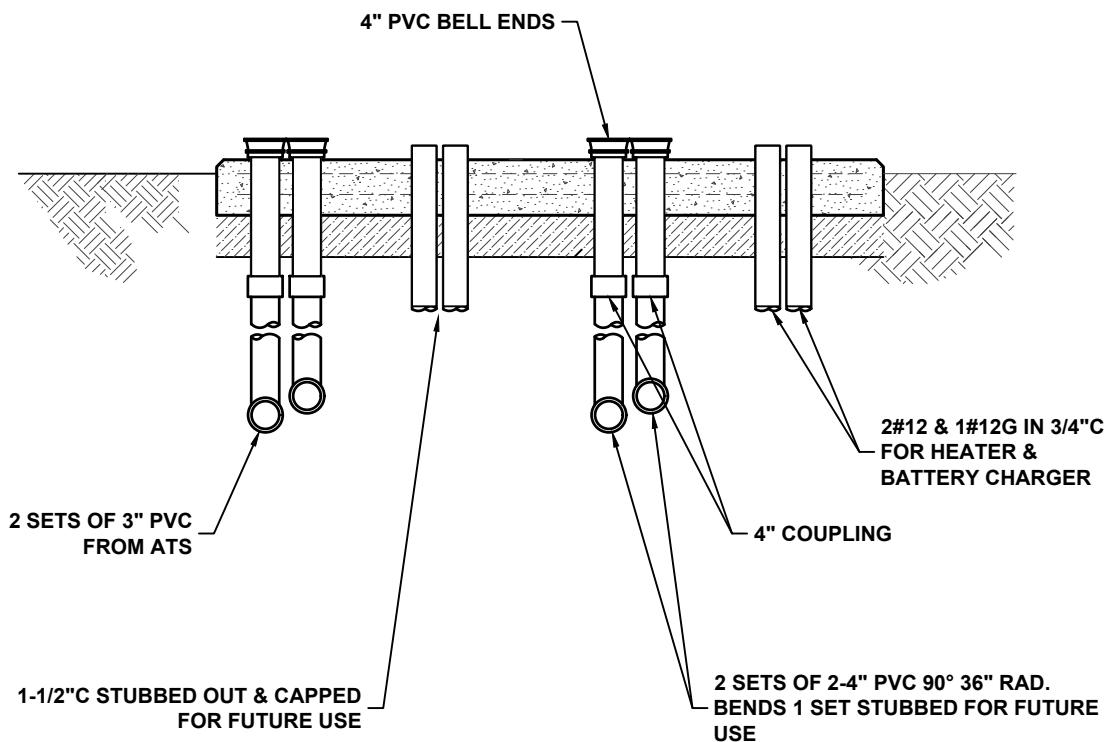
GEN1 AIR COOLED GENERATORS CLEARENCES



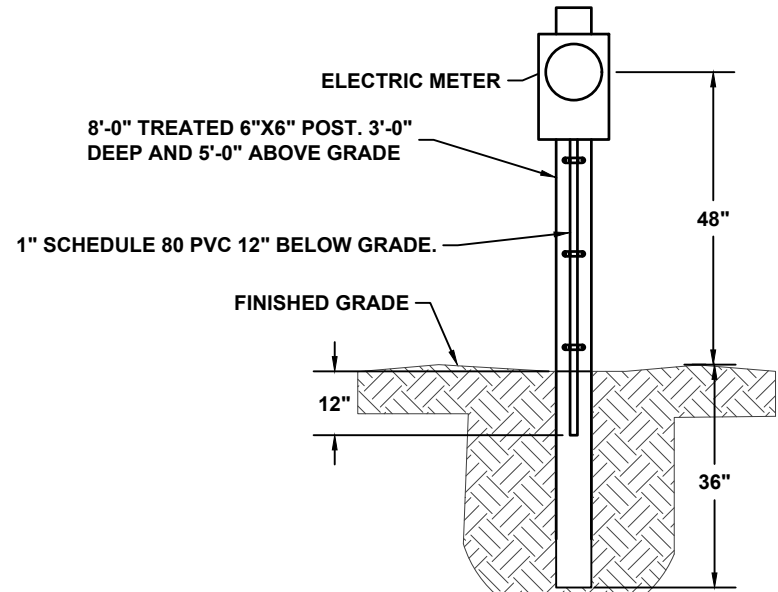
TYPICAL MOUNTING PAD DETAIL

1. VERIFY SIZING OF THE CONCRETE MOUNTING PAD WITH GENERATOR MANUFACTURER. PROVIDE VIBRATION MAT AS REQUIRED PER MANUFACTURERS RECOMMENDATIONS.
2. THE WEIGHT OF THE SINGLE MOUNTING PAD OR COMBINED WEIGHT OF MULTIPLE MOUNTING PADS SHOULD EQUAL OR EXCEED THE COMBINED WEIGHT OF THE GENERATOR SET AND ATTACHED ACCESSORIES.
3. TO DETERMINE THE WEIGHT OF THE MOUNTING PAD(S), DETERMINE THE VOLUME (LENGTH X WIDTH X HEIGHT) OF EACH PAD IN CUBIC METERS (CUBIC FEET). MULTIPLY THIS RESULT BY 2400 KG/CM3 (150 LB/FT.3) TO DETERMINE A PAD'S WEIGHT. IN MULTIPLE-PAD INSTALLATIONS, ADD THE WEIGHTS OF ALL PADS TO DETERMINE THE TOTAL MOUNTING PAD WEIGHT.
4. MOUNTING PAD COMPOSITION SHOULD FOLLOW STANDARD PRACTICE FOR THE REQUIRED LOADING. TYPICAL SPECIFICATIONS CALL FOR 17238-20685 KPA (2500-3000 PSI) CONCRETE REINFORCED WITH EIGHT-GAUGE WIRE MESH OR NO. 6 REINFORCING BARS ON 305 MM (12 IN.) CENTERS. THE TOP SURFACE OF THE MOUNTING PAD ON WHICH THE GENERATOR SET MOUNTS SHOULD BE WITHIN A FLATNESS OF 3 MM (1/8 IN.).
5. THE RECOMMENDED CONCRETE MIXTURE BY VOLUME IS 1:2:3 PARTS OF CEMENT, SAND, AND AGGREGATE, RESPECTIVELY. SURROUND THE PAD WITH A 200-250 MM (8-10 IN.) LAYER OF SAND OR GRAVEL FOR PROPER SUPPORT AND ISOLATION OF A PAD LOCATED AT OR BELOW GRADE.
6. ANCHOR THE GENERATOR SET TO THE CONCRETE USING BOLTS CAST INTO THE SURFACE OF THE PAD. OTHERWISE, DRILL HOLES IN THE MOUNTING PAD PRIOR TO GENERATOR SET PLACEMENT AND USE EXPANSION ANCHOR BOLTS. ANCHOR THE GENERATOR SET SKID OR FUEL TANK (IF EQUIPPED) USING ALL OF THE PROVIDED ANCHOR HOLES ON THE BOTTOM OF THE SKID.
7. CONTRACTOR TO COORDINATE WITH CLIENT ON INSTALLATION LOCATION OF GENERATOR PAD

GEN2 GENERATOR PAD DETAIL



GEN3 GENERATOR PAD CONDUIT DETAIL



ES120 C.T.METER POLE



MUNICIPAL
ENGINEERING SERVICES INC

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CERTIFICATE OF AUTHORIZATION: CA-50886

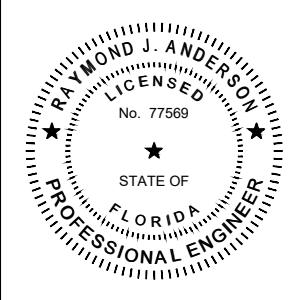
ELECTRICAL
DETAILS 3

WELL #4 AND ELEVATED TANK #3
FOR
HOLT WATER WORKS, INC

OKALOOSA COUNTY
FLORIDA

NOT Released for Construction by _____ Date _____
As-Built "Record Drawing" by _____ Date _____

REVISION		



SCALE: AS NOTED	DATE: FEBRUARY 2025
JOB NUMBER: 190002-01	FILENAME: SEE LEFT
DRAWN BY: RJM	DESIGNED BY: RJA

SHEET:

E-903