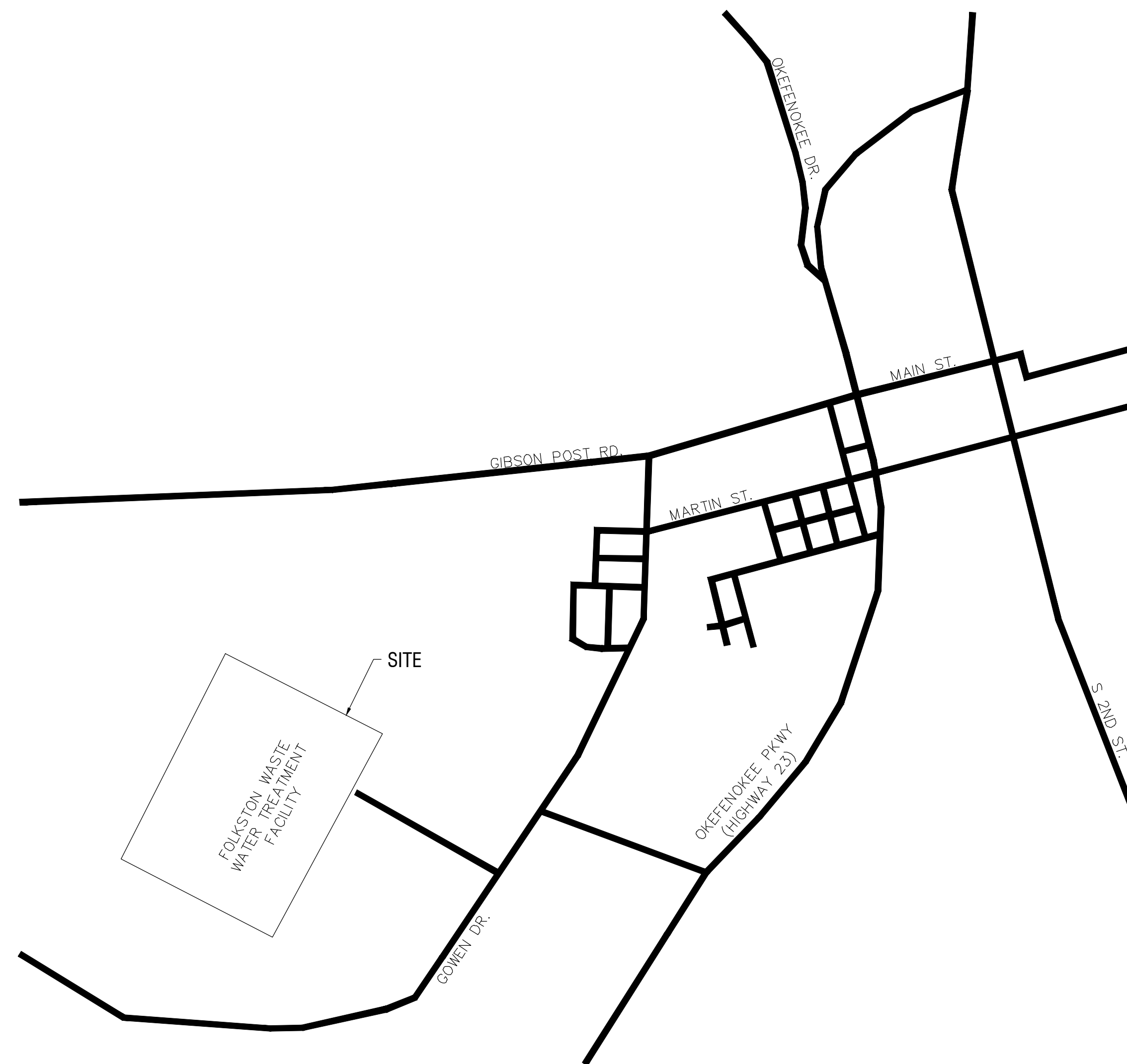


WATER POLLUTION CONTROL PLAN FOR THE CITY OF FOLKSTON CHARLTON COUNTY, GEORGIA DATE: DECEMBER 10, 2020



VICINITY MAP

DRAWING LEGEND		
DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER		
UNDERGROUND WATER LINE		
FORCE MAIN		
STORM DRAINAGE PIPE		
UNDERGROUND TELEPHONE LINE		
UNDERGROUND TELEPHONE CONDUIT		
UNDERGROUND GAS LINE		
DITCH CENTERLINE		
SPOT ELEVATION		
TOP OF CURB ELEVATION		
FIRE HYDRANT		
SEWER MANHOLE		
WATER VALVE		
TELEPHONE MANHOLE		
LIGHT POLE		
SIGN		
WATER METER		
BENCHMARK		
CONCRETE MONUMENT FOUND		
GUY POLE		
IRON PIN FOUND		
IRON PIN SET		
TELEPHONE PEDESTAL		
POWER POLE		
HANDICAP SPACE		
SEDIMENT BASIN MARKER W/NOTCH		

GEORGIA 811
Utilities Protection Center, Inc.

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

Owner:
CITY OF FOLKSTON
541 FIRST STREET
FOLKSTON, GA 3537
(912) 496-2563
(912) 496-3844

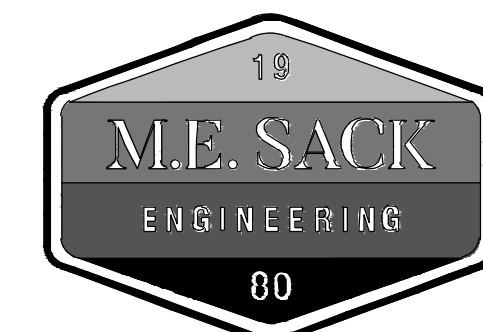
GPS COORDINATES OF CO:
LATITUDE: 30°40'14.88" N
LONGITUDE: 82°1'18.80" W

24 HOUR CONTACT:
LEONARD LLOYD
541 FIRST STREET
FOLKSTON, GA 3537
(912) 496-2563
(912) 496-3844

DESIGN PROFESSIONAL:



DATE: May 1, 2024



515 NORTH MAIN
STREET
P.O. BOX 649
HINESVILLE, GA 31313
TEL: (912) 368-5212

GENERAL NOTES

1. ALL EXISTING UTILITIES SHOWN ARE LOCATED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING UTILITIES. OVERHEAD LINES ARE NOT SHOWN FOR CLARITY.
2. ALL DISTURBED AREAS TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION, IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
3. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY CORNERS, RIGHT OF WAY MONUMENTS, SIGNS OR OTHER STRUCTURES DISTURBED DURING CONSTRUCTION.
5. ALL TRAFFIC AND SIGNAGE CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES. MUTCD, CURRENT EDITION.

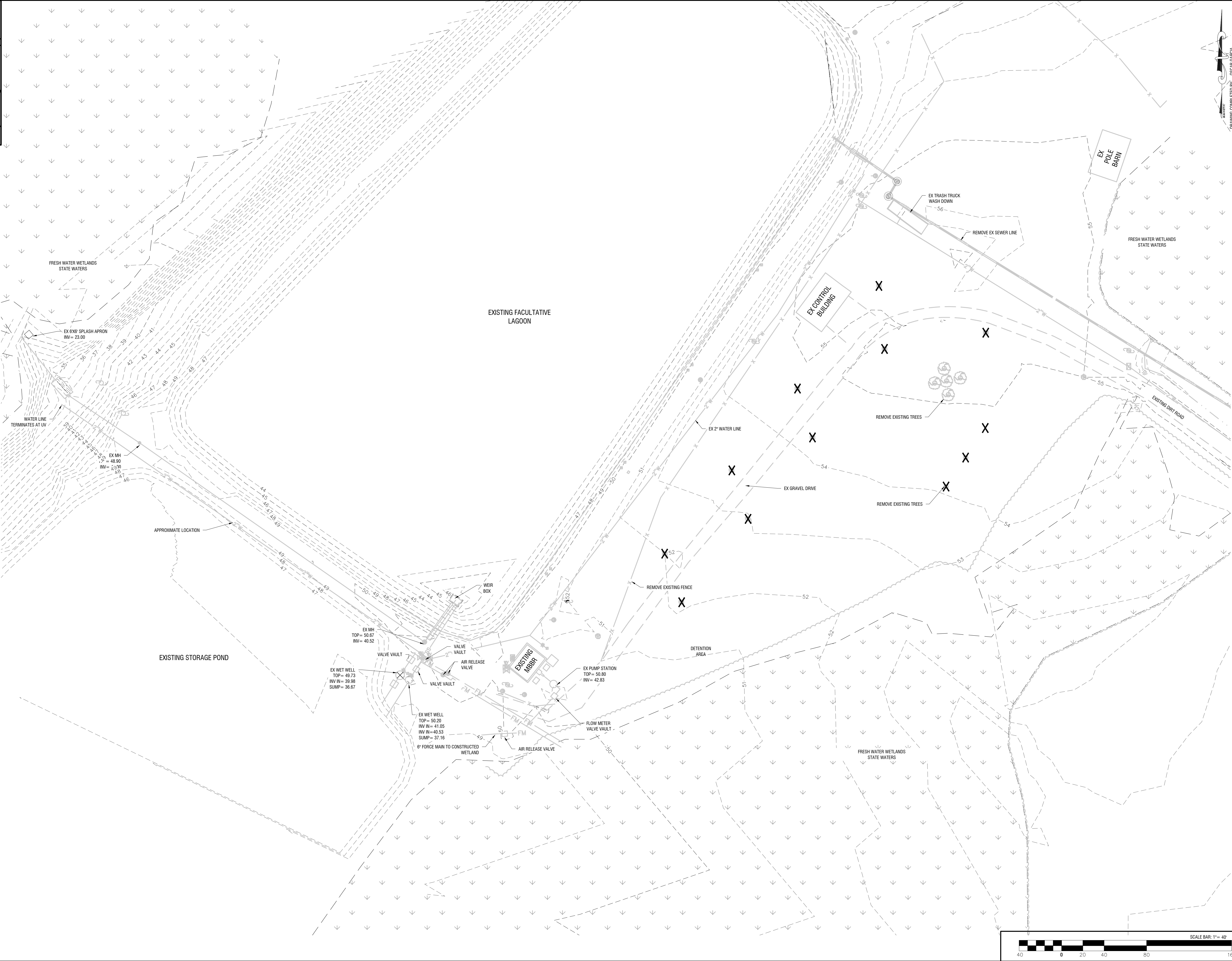
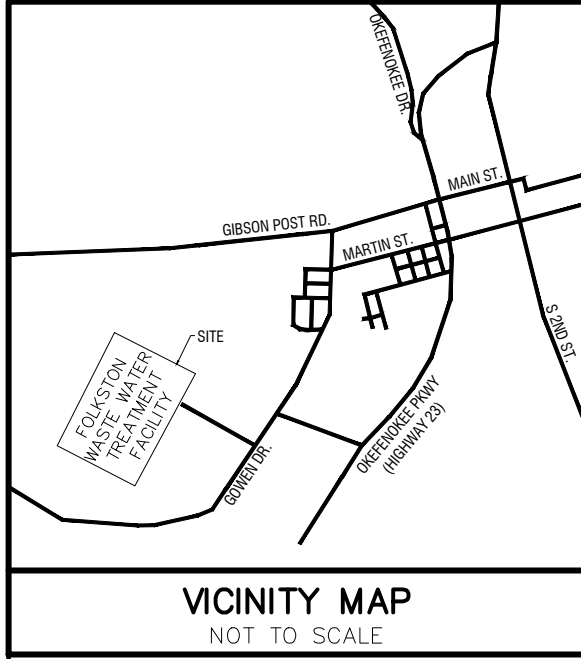
JOB NO. 2013-36PRJ

REVISION NO.	DATE	DESCRIPTION
1.	11/14/2019	GSWCC COMMENTS
2.	12/10/2020	UPDATE TO MEET NEW WLA
3.	9/22/2023	GSWCC COMMENT
4.	3/28/2024	DETAILS ADJUSTMENTS

COVER
SHEET

PLOT DATE: May 1, 2024

			DRAWING COMPLETED BY: OSCAR GARCIA			REVISIONS:		
						1		
						GSWCC COMMENTS		
						2		
						UPDATE TO MEEW NEW WLA		
						3		
						GSWCC COMMENTS		
						4		
						DETAIL ADJUSTMENT		



REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEEW NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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CITY OF FOLKSTON

COUNTY:

CHARLTON

OWNER:

CITY OF FOLKSTON
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penderlloyd@yahoo.com

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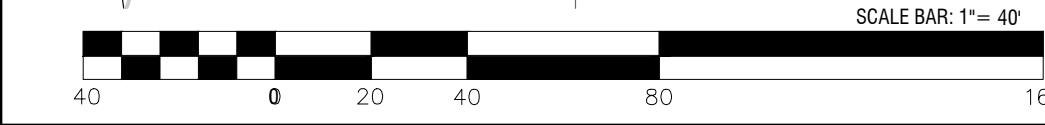
Water Pollution
Control Plant

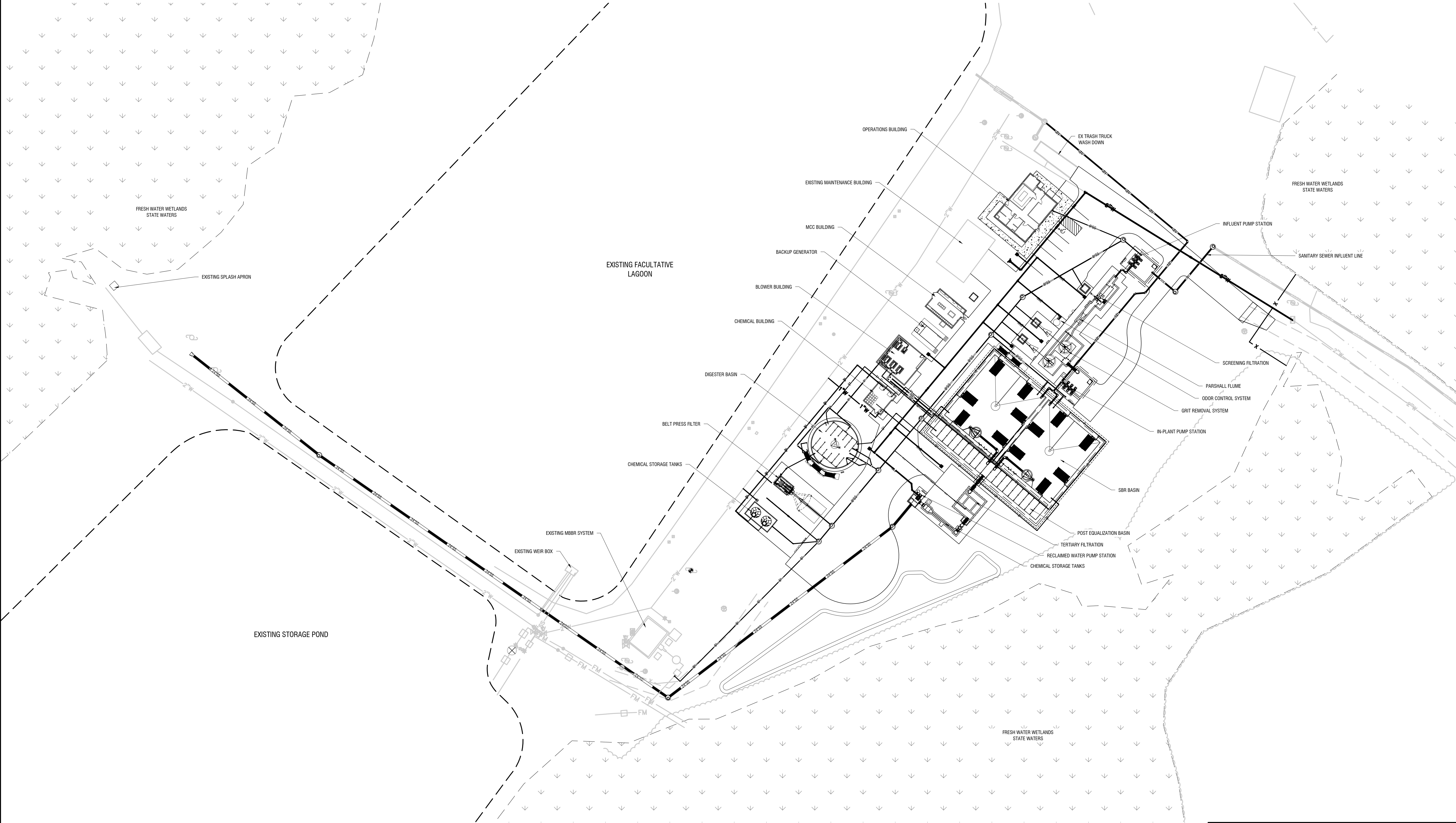
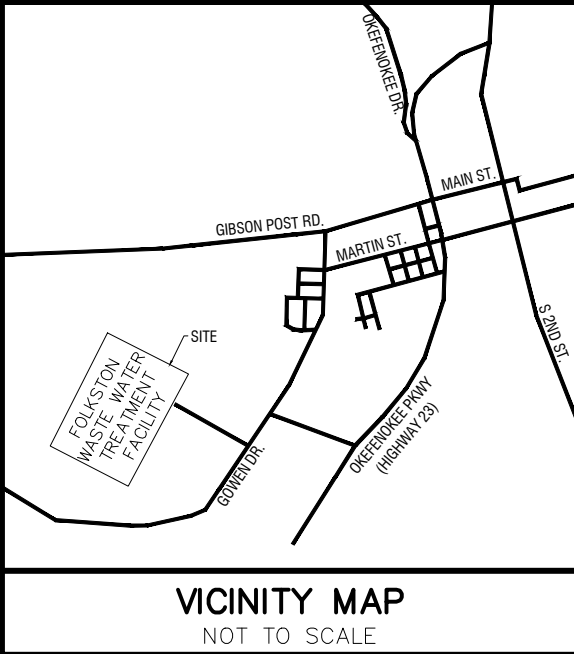
EXISTING
CONDITIONS
PLAN

G2

FILE NO: 2013-36.1

PLOT DATE: May 1, 2024





REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEEW NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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GEORGIA REGISTERED PROFESSIONAL ENGINEER

MARCUS E. SACK

DATE: May 1, 2024

MUNICIPALITY:

CITY OF FOLKSTON

COUNTY:

CHARLTON

OWNER:

CITY OF FOLKSTON

541 FIRST STREET

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24 HOUR CONTACT:

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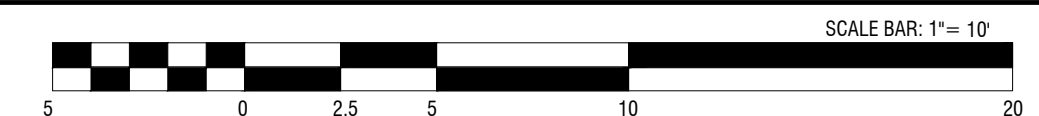
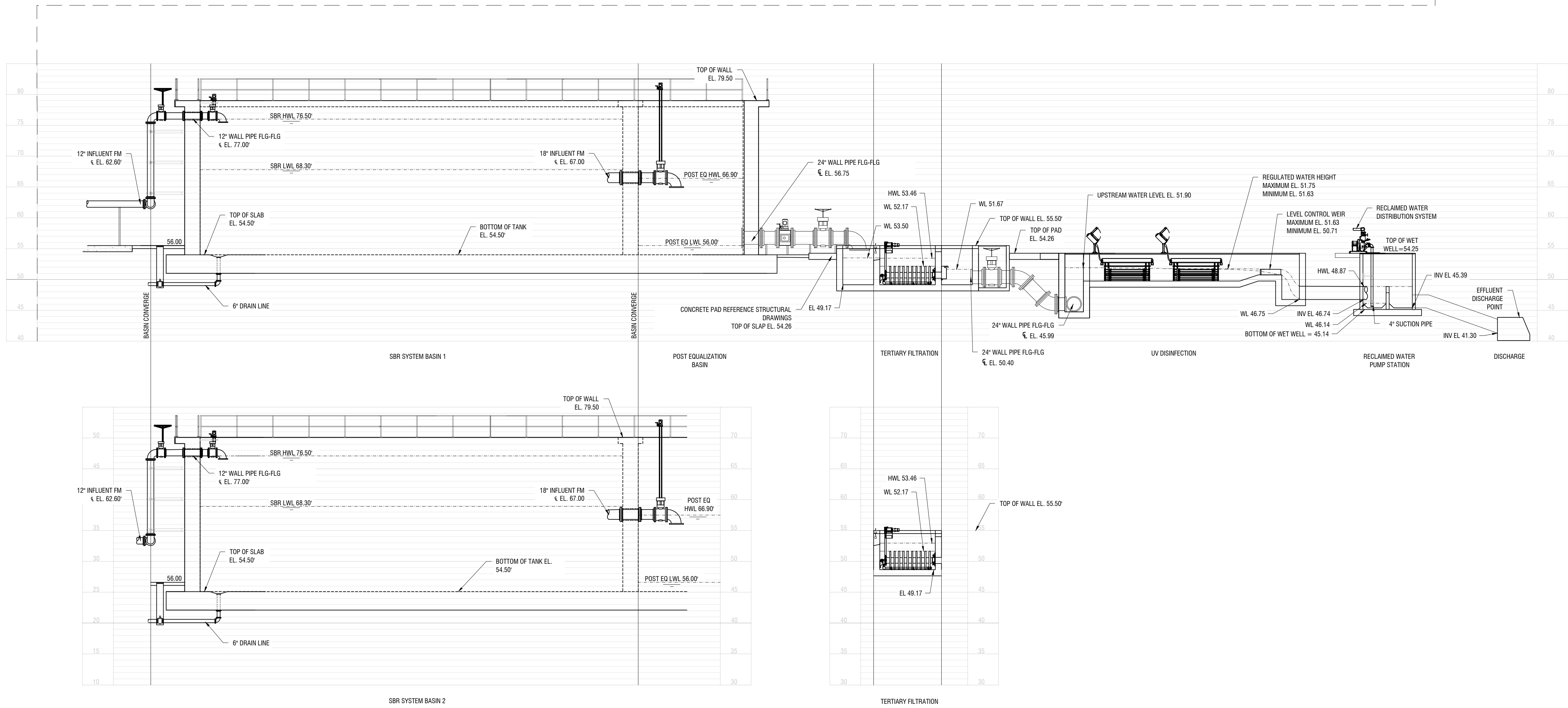
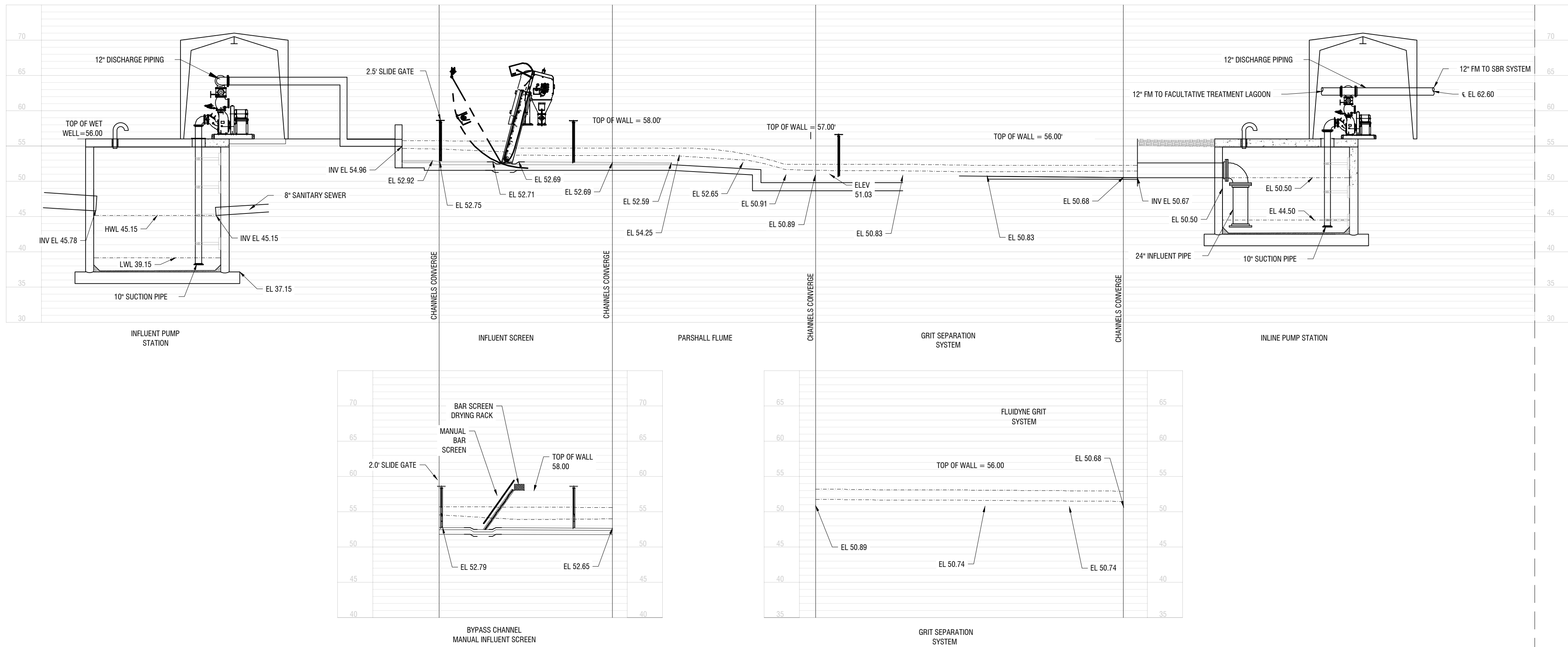
Water Pollution Control Plant

OVERALL SITE PLAN

G3

FILE NO: 2013-36.1

PLOT DATE: May 1, 2024



REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEEN NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

DRAWING COMPLETED BY: OSCAR GARCIA

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TEL: (912) 368-5212

DATE: May 1, 2024

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COUNTY:

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OWNER:

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penderfloyd@yahoo.com

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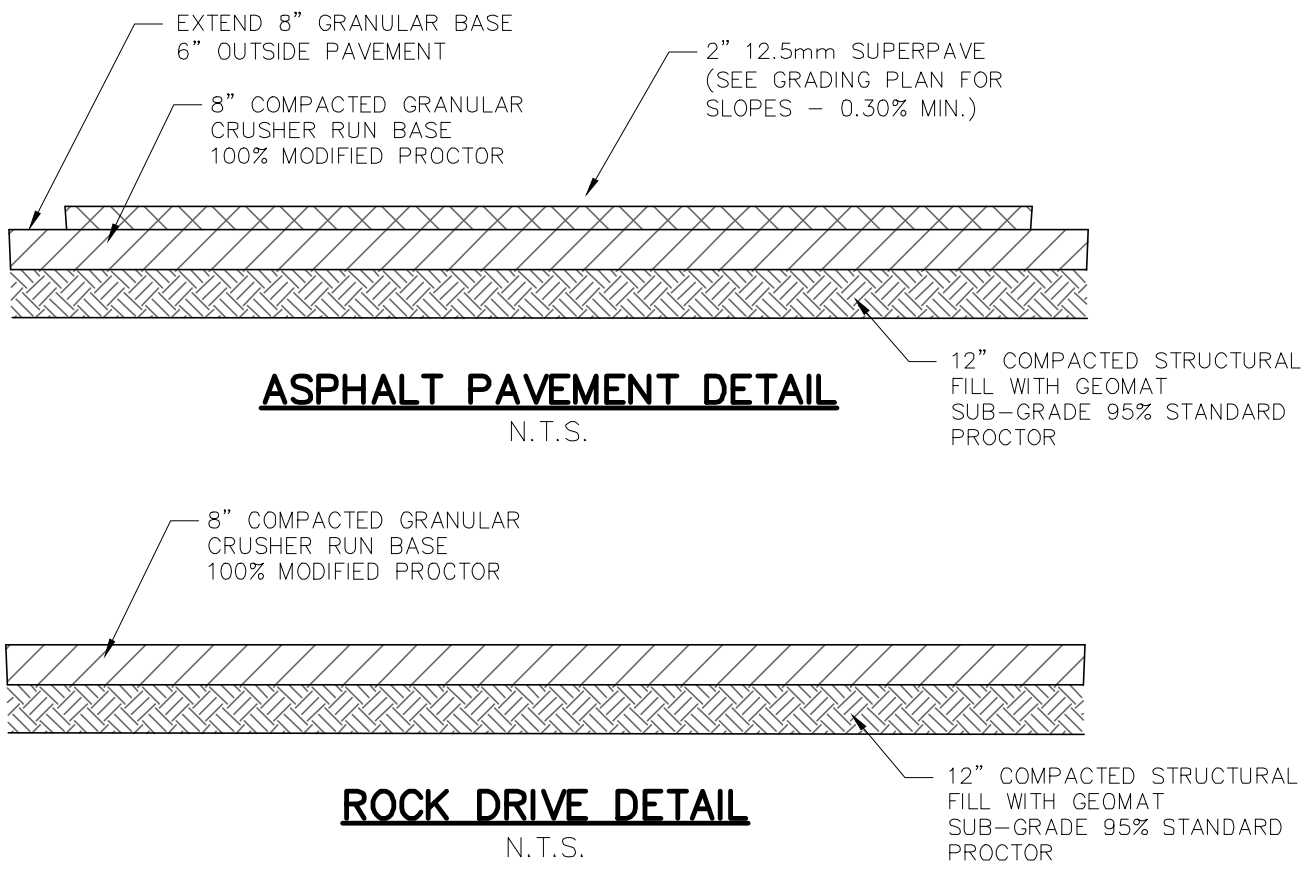
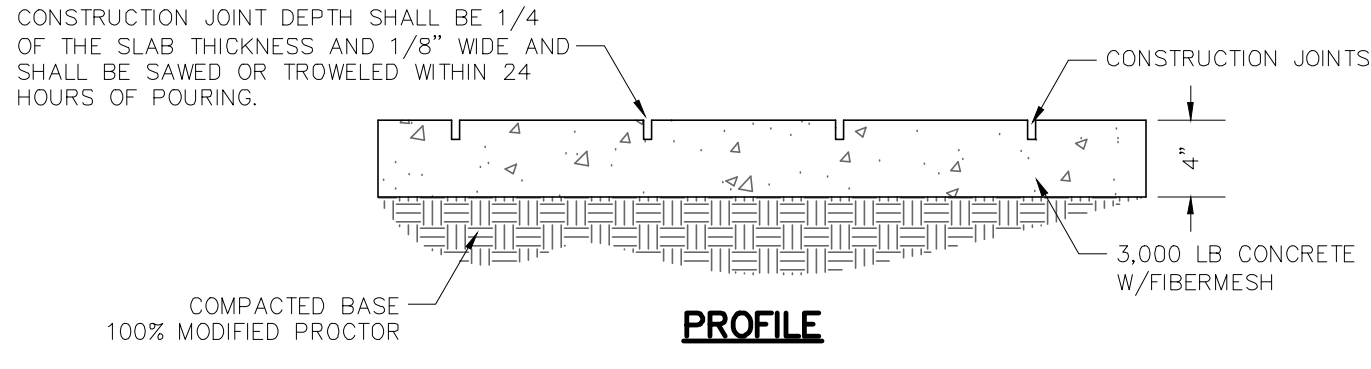
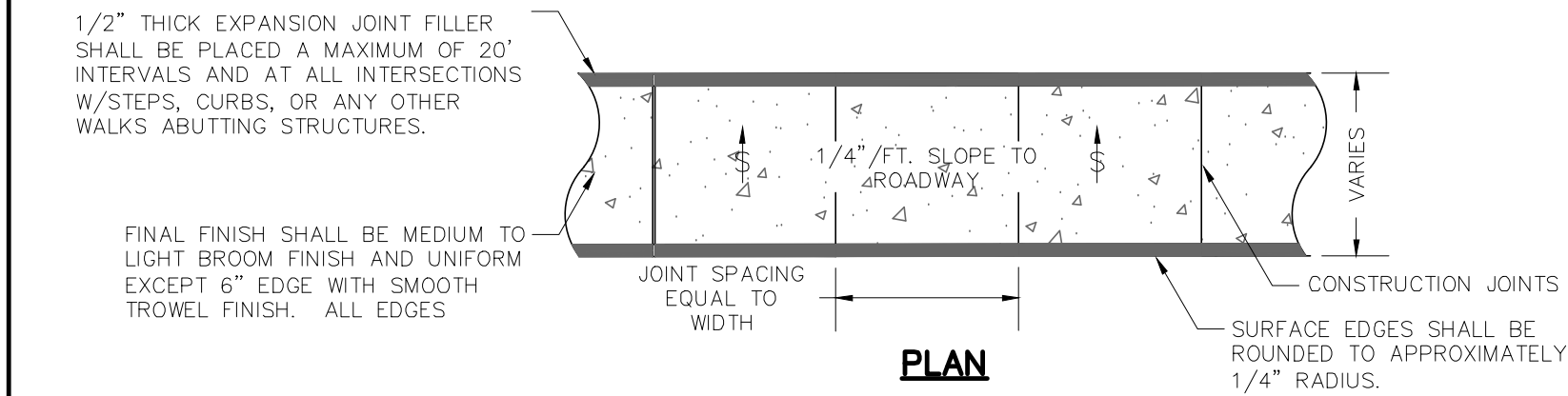
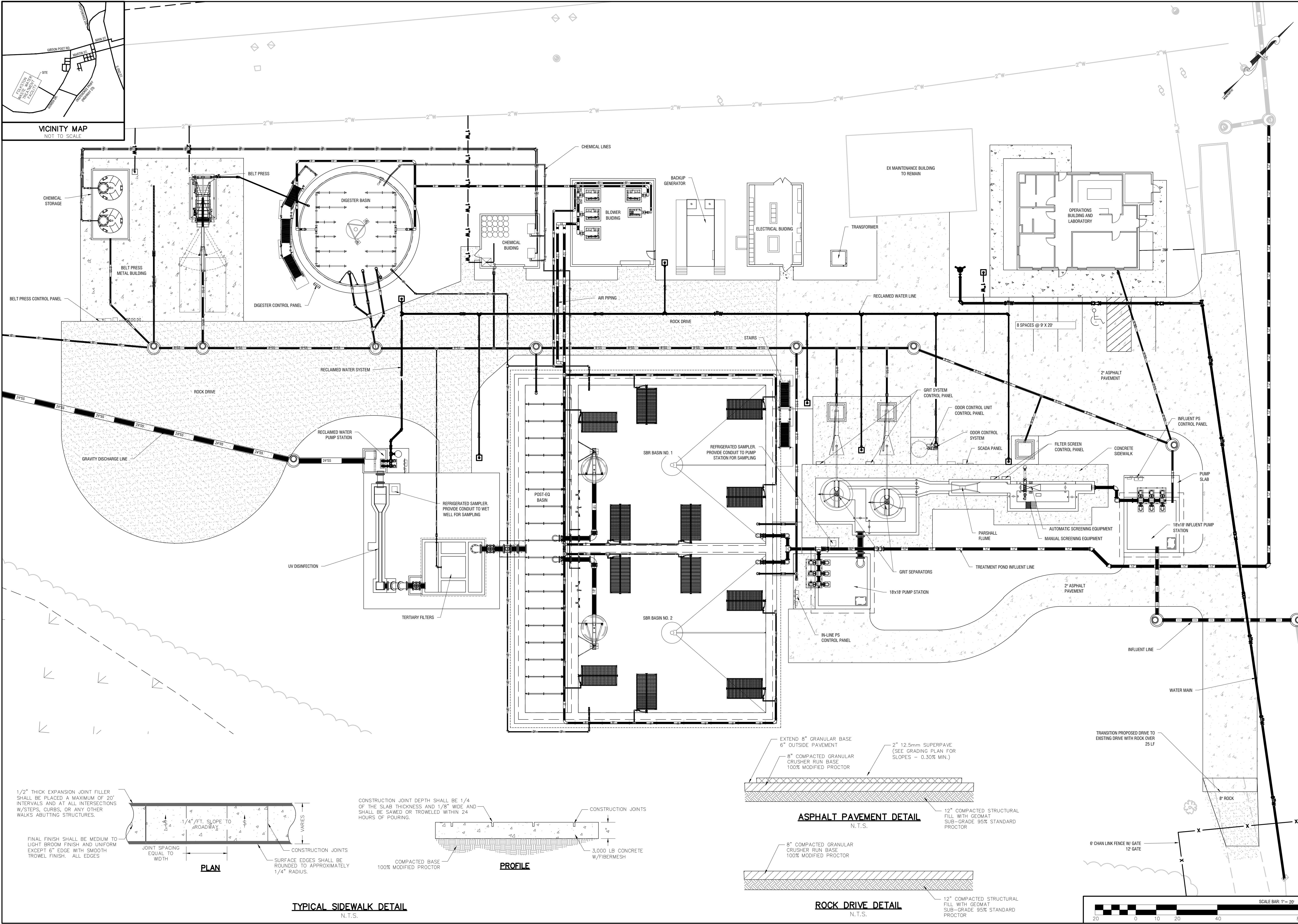
Water Pollution Control Plant

HYDRAULIC PROFILE

G4

FILE NO: 2013-36.1

PLOT DATE: May 1, 2024



REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEEN NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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GEORGIA
REGISTERED
PROFESSIONAL
ENGINEER
MARCUS E. SACK
DATE: May 1, 2024

10
M.E. SACK
ENGINEERING
80

MUNICIPALITY:
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COUNTY:
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penderfloyd@yahoo.com

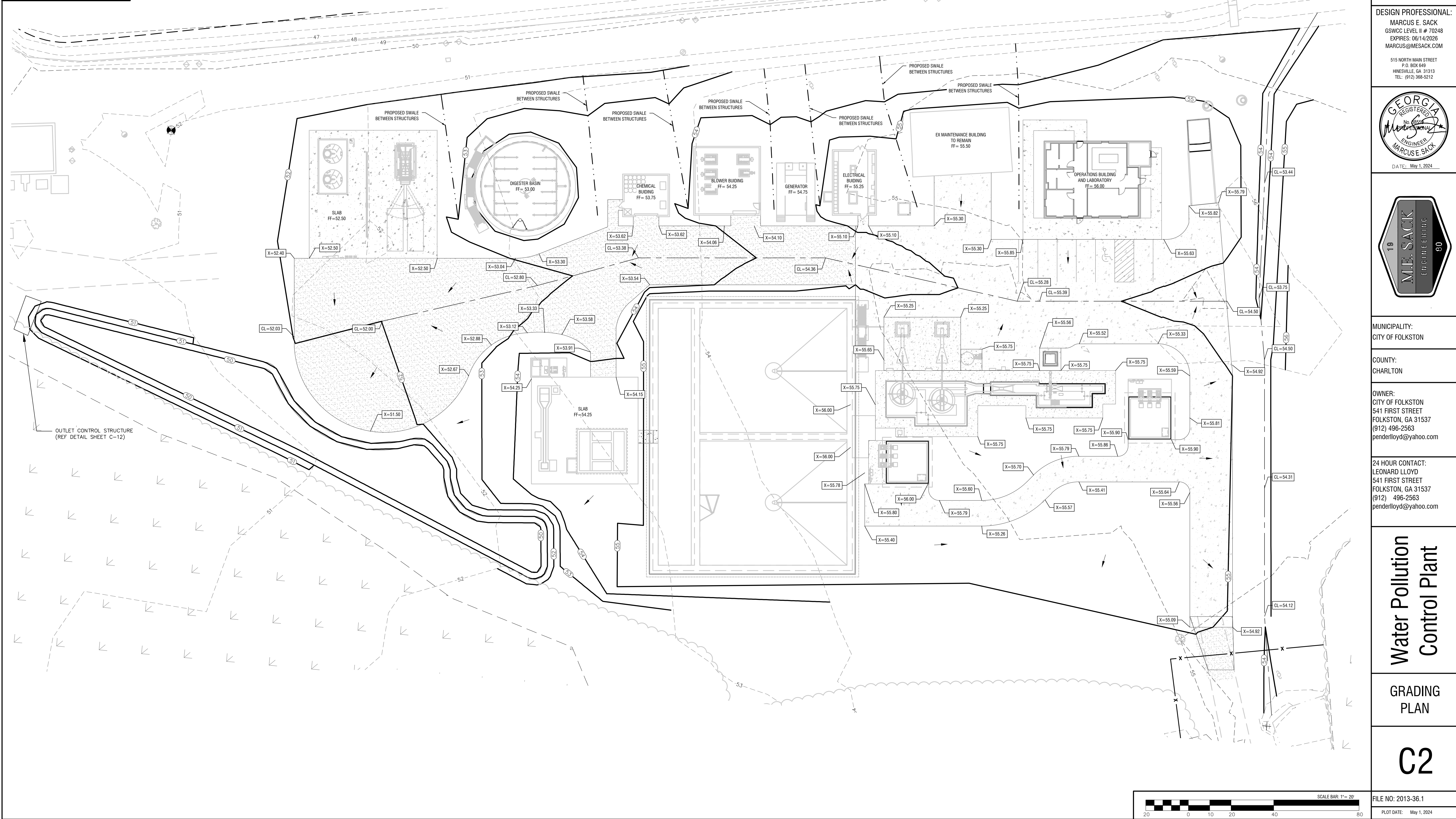
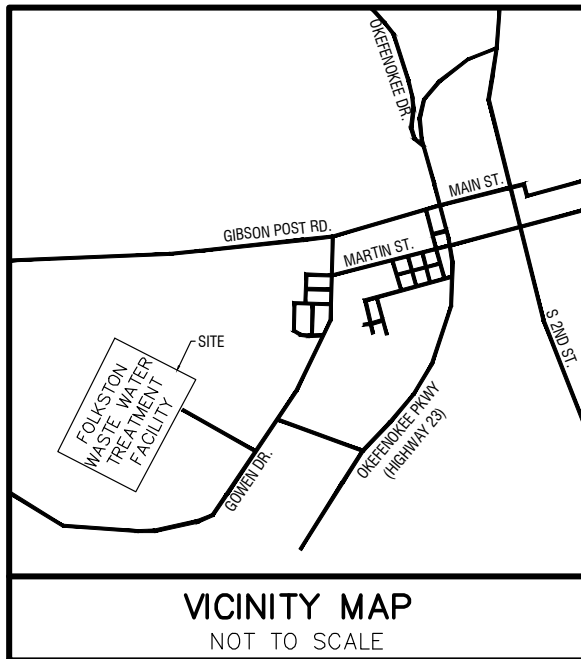
24 HOUR CONTACT:
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(912) 496-2563
penderfloyd@yahoo.com

Water Pollution
Control Plant

SITE PLAN

C1

FILE NO: 2013-36.1
PLOT DATE: May 1, 2024



REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEEN NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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GEORGIA REGISTERED PROFESSIONAL ENGINEER
MARCUS E. SACK

DATE: May 1, 2024

MUNICIPALITY:

CITY OF FOLKSTON

COUNTY:

CHARLTON

OWNER:

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(912) 496-2563
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24 HOUR CONTACT:

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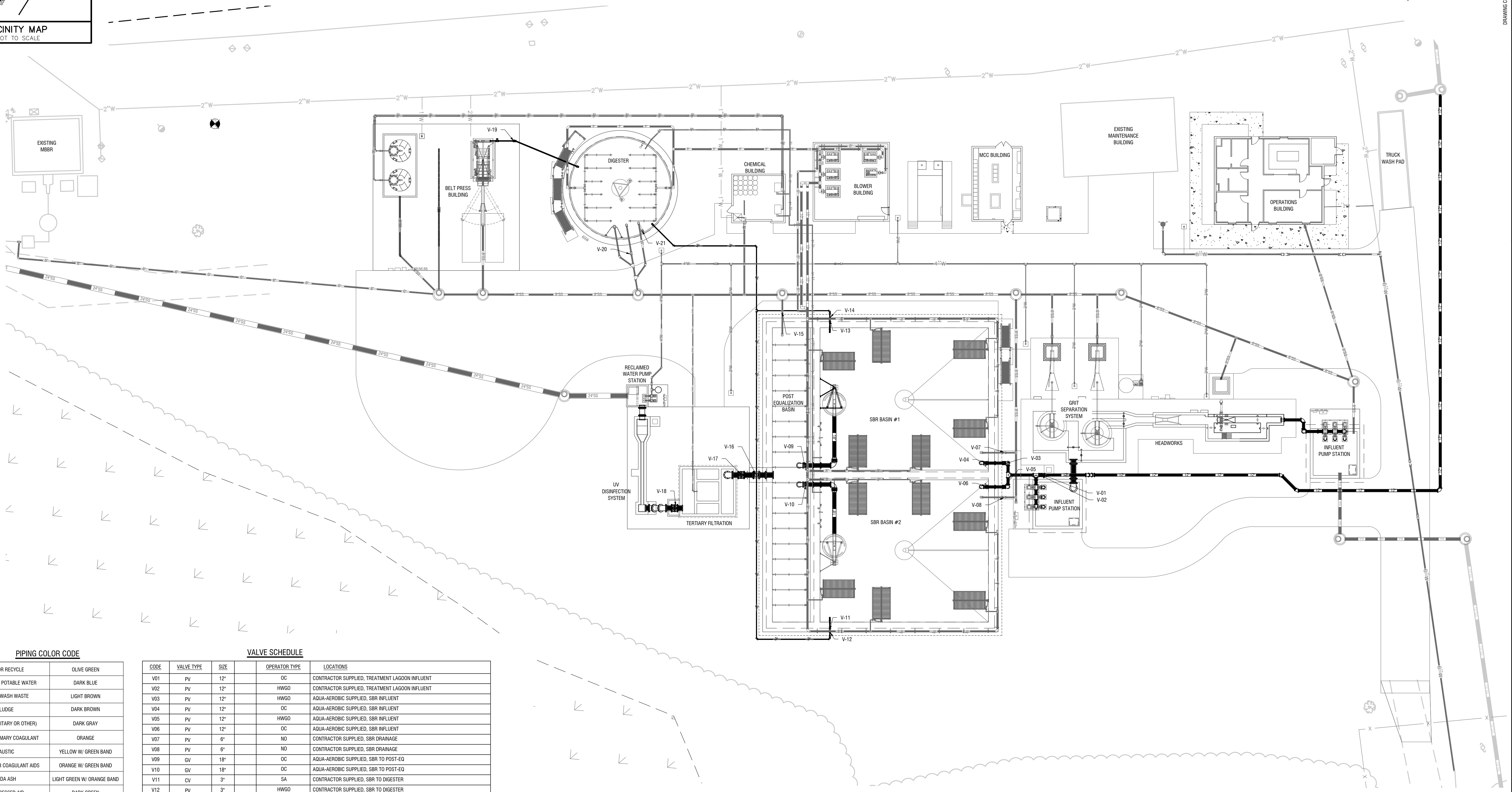
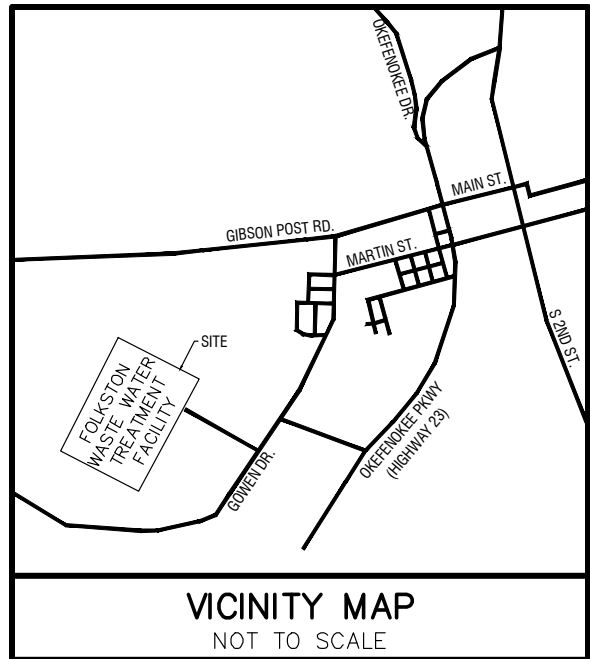
Water Pollution Control Plant

GRADING PLAN

C2

FILE NO: 2013-36.1

PLOT DATE: May 1, 2024



PIPING COLOR CODE

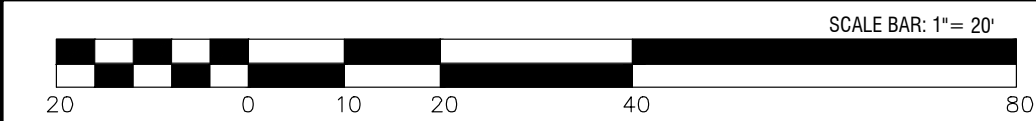
RAW OR RECYCLE	OLIVE GREEN
FINISHED OR POTABLE WATER	DARK BLUE
BACKWASH WASTE	LIGHT BROWN
SLUDGE	DARK BROWN
SEWER (SANITARY OR OTHER)	DARK GRAY
ALUM OR PRIMARY COAGULANT	ORANGE
CAUSTIC	YELLOW W/ GREEN BAND
POLYMERS OR COAGULANT AIDS	ORANGE W/ GREEN BAND
SODA ASH	LIGHT GREEN W/ ORANGE BAND
COMPRESSED AIR	DARK GREEN
OTHER LINES	LIGHT GRAY

VALVE SCHEDULE

CODE	VALVE TYPE	SIZE	OPERATOR TYPE	LOCATIONS
V01	PV	12"	OC	CONTRACTOR SUPPLIED, TREATMENT LAGOON INFLUENT
V02	PV	12"	HWGO	CONTRACTOR SUPPLIED, TREATMENT LAGOON INFLUENT
V03	PV	12"	HWGO	AQUA-AEROBIC SUPPLIED, SBR INFLUENT
V04	PV	12"	OC	AQUA-AEROBIC SUPPLIED, SBR INFLUENT
V05	PV	12"	HWGO	AQUA-AEROBIC SUPPLIED, SBR INFLUENT
V06	PV	12"	OC	AQUA-AEROBIC SUPPLIED, SBR INFLUENT
V07	PV	6"	NO	CONTRACTOR SUPPLIED, SBR DRAINAGE
V08	PV	6"	NO	CONTRACTOR SUPPLIED, SBR DRAINAGE
V09	GV	18"	OC	AQUA-AEROBIC SUPPLIED, SBR TO POST-ED
V10	GV	18"	OC	AQUA-AEROBIC SUPPLIED, SBR TO POST-ED
V11	CV	3"	SA	CONTRACTOR SUPPLIED, SBR TO DIGESTER
V12	PV	3"	HWGO	CONTRACTOR SUPPLIED, SBR TO DIGESTER
V13	CV	3"	SA	CONTRACTOR SUPPLIED, SBR TO DIGESTER
V14	PV	3"	HWGO	CONTRACTOR SUPPLIED, SBR TO DIGESTER
V15	PV	6"	NO	CONTRACTOR SUPPLIED, SBR DRAINAGE
V16	PV	24"	OC	AQUA-AEROBIC SUPPLIED, POST-ED TO AQUA-DISK
V17	GV	24"	HWGO	CONTRACTOR SUPPLIED, POST-ED TO AQUA-DISK
V18	GV	24"	HWGO	CONTRACTOR SUPPLIED, AQUA-DISK TO DISINFECTION
V19	PV	4"	HWGO	CONTRACTOR SUPPLIED, DIGESTER TO BELT PRESS
V20	PV	6"	NO	CONTRACTOR SUPPLIED, DIGESTER DRAINAGE
V21	PV	6"	HWGO	CONTRACTOR SUPPLIED, DIGESTER DRAINAGE TELESCOPIC VALVE

PV = PLUG VALVE
CV = CHECK VALVE
GV = GATE VALVE

NO = 2" NUT OPERATOR
SA = SINGLE ACTING OPERATOR
OC = OPEN/CLOSED ELECTRIC OPERATOR
HWGO = HANDWHEEL GEAR OPERATOR



REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEEW NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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MARCUS@MESACK.COM

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TEL: (912) 368-5212

GEORGIA
REGISTERED
PROFESSIONAL
ENGINEER
MARCUS E. SACK

DATE: May 1, 2024

MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON

OWNER:
CITY OF FOLKSTON
541 FIRST STREET
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(912) 496-2563
penderlloyd@yahoo.com

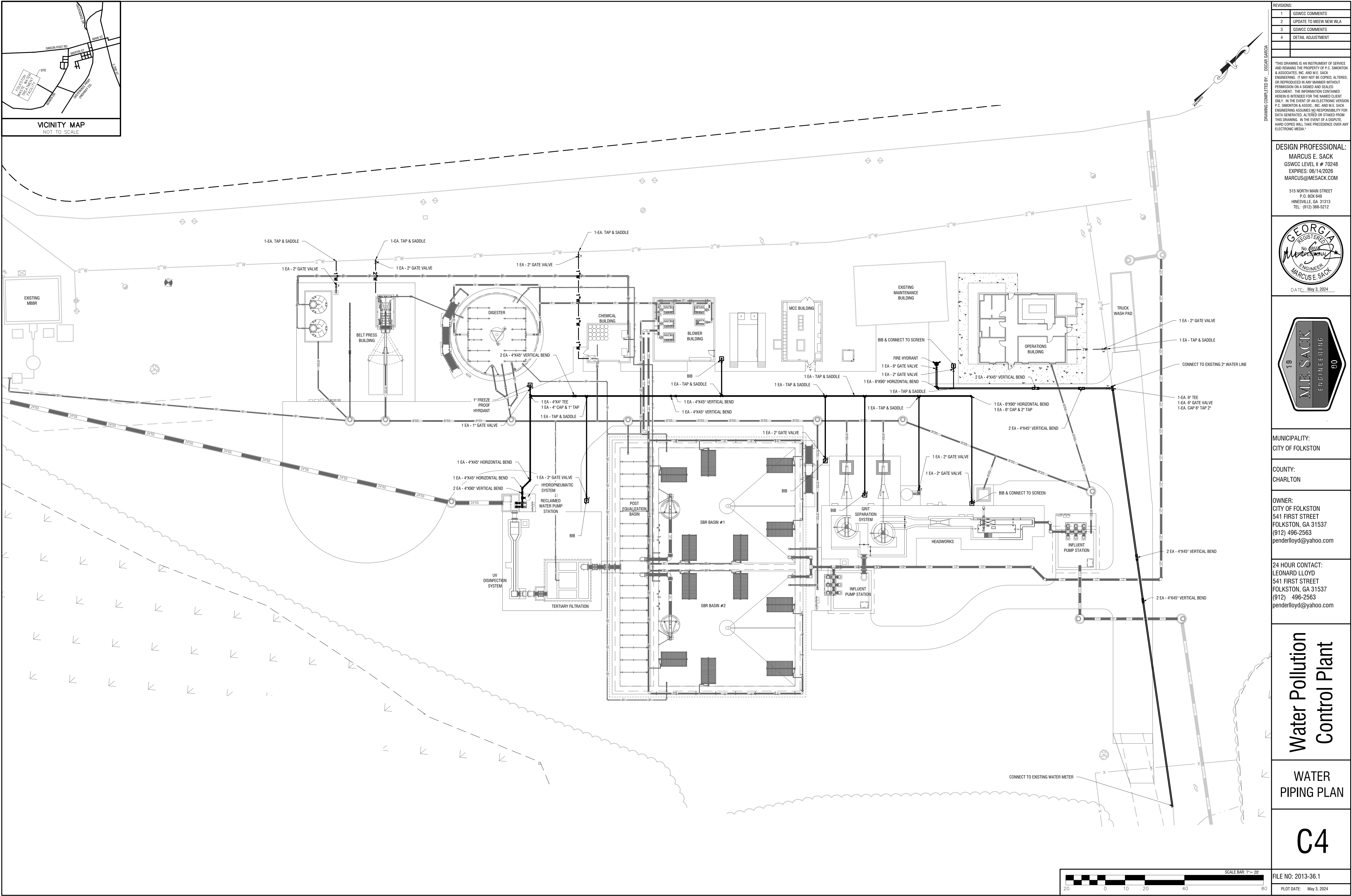
24 HOUR CONTACT:
LEONARD LLOYD
541 FIRST STREET
FOLKSTON, GA 31537
(912) 496-2563
penderlloyd@yahoo.com

Water Pollution
Control Plant

PROCESS
PIPING PLAN

C3

FILE NO: 2013-36.1
PLOT DATE: May 1, 2024



REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEET NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

DESIGN PROFESSIONAL:

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GEORGIA
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DATE: May 3, 2024

MUNICIPALITY:

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COUNTY:

CHARLTON

OWNER:

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24 HOUR CONTACT:

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Water Pollution
Control Plant

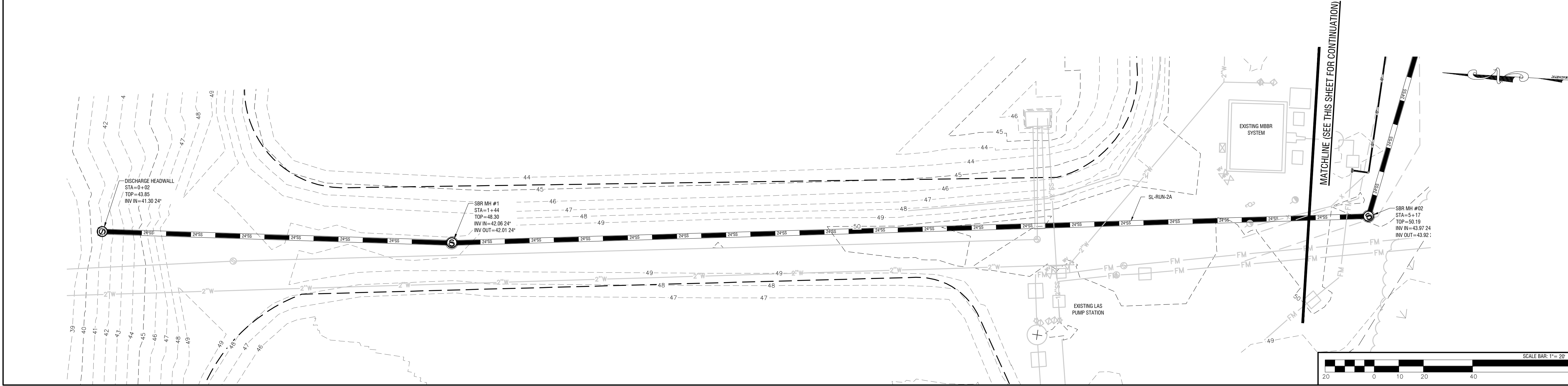
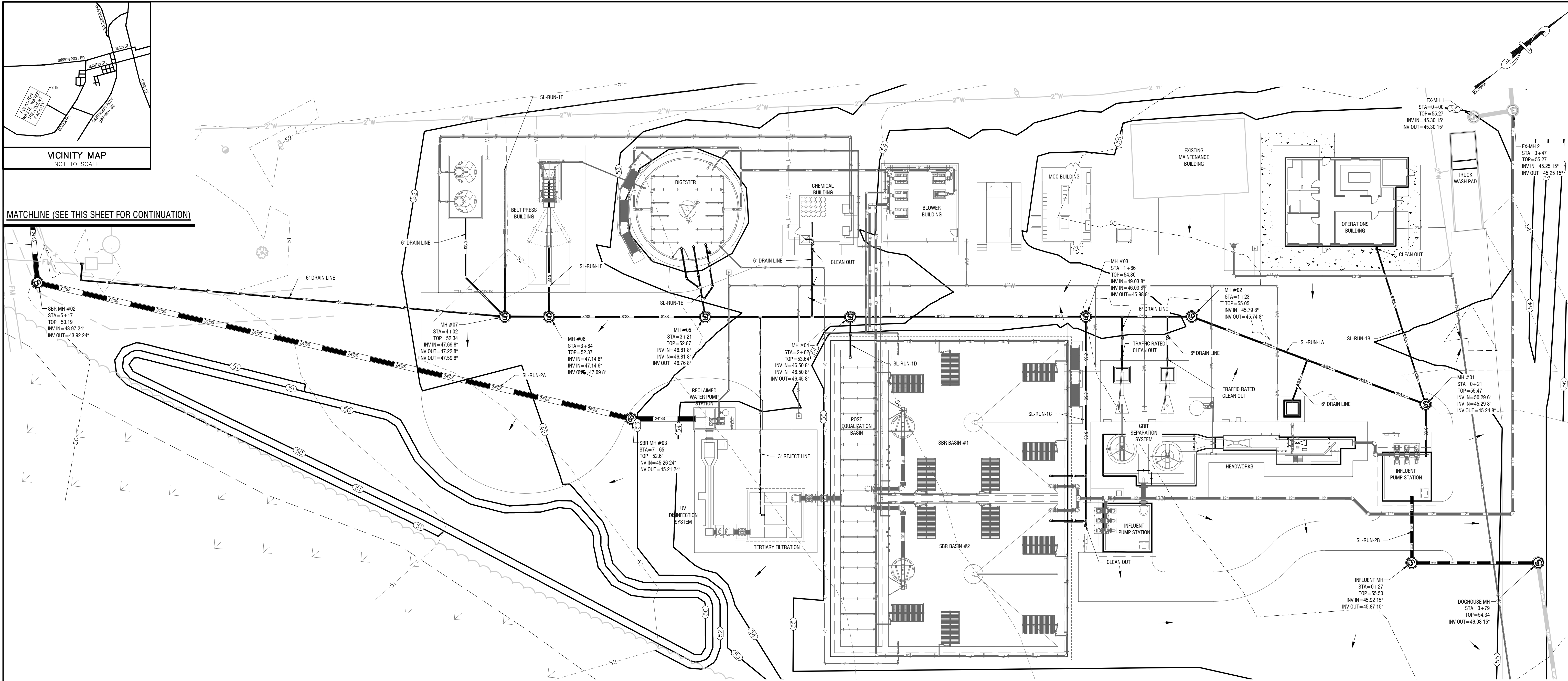
WATER
PIPING PLAN

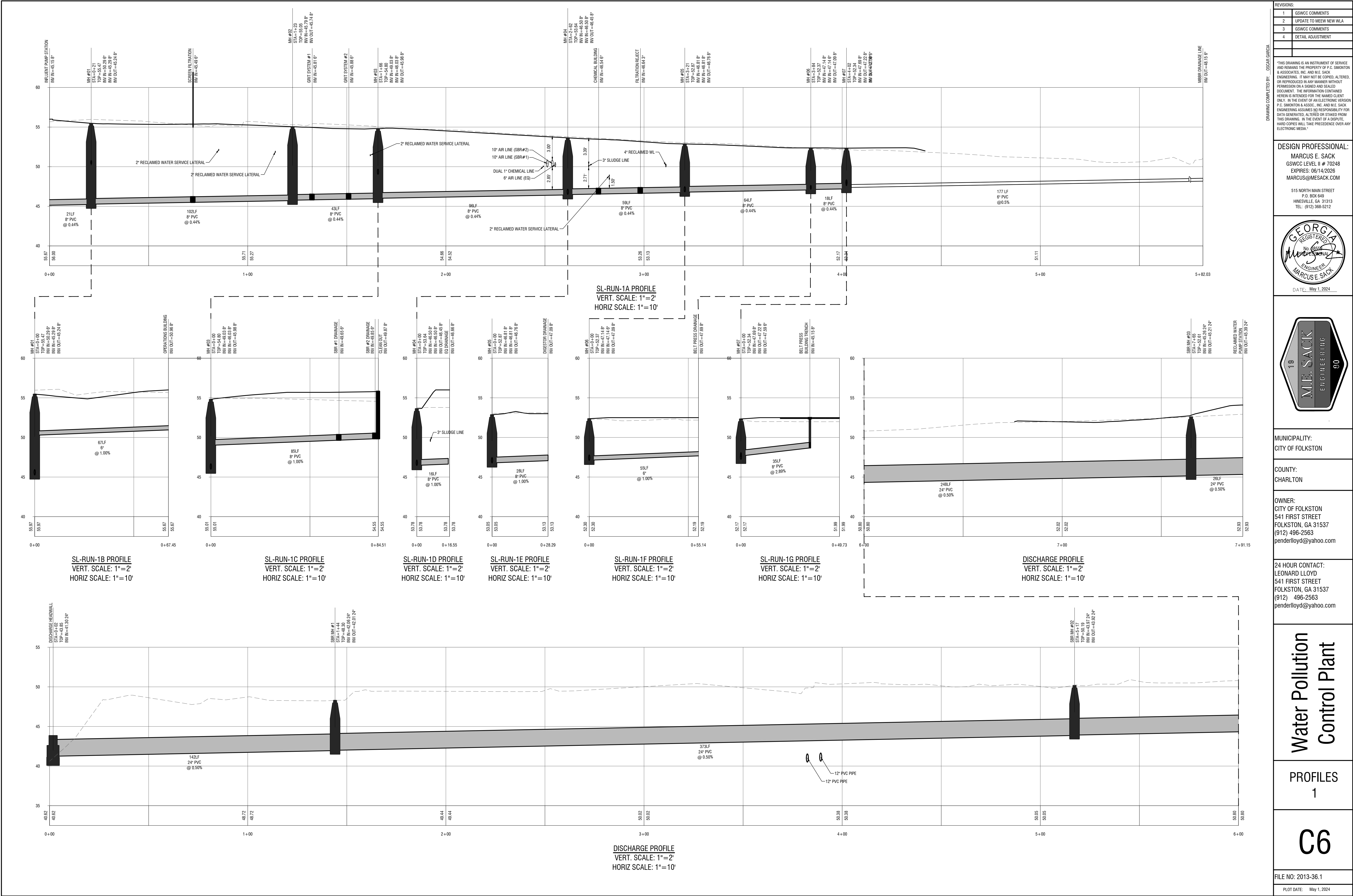
C4

FILE NO: 2013-36.1

PLOT DATE: May 3, 2024







REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEET NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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DESIGN PROFESSIONAL:

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TEL: (912) 368-5212

GEORGIA
REGISTERED
ENGINEER
MARCUS E. SACK
No. 6527
DATE: May 1, 2024

M.E. SACK
ENGINEERING
18
60

MUNICIPALITY:

CITY OF FOLKSTON

COUNTY:

CHARLTON

OWNER:

CITY OF FOLKSTON
541 FIRST STREET
FOLKSTON, GA 31537
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Water Pollution
Control Plant

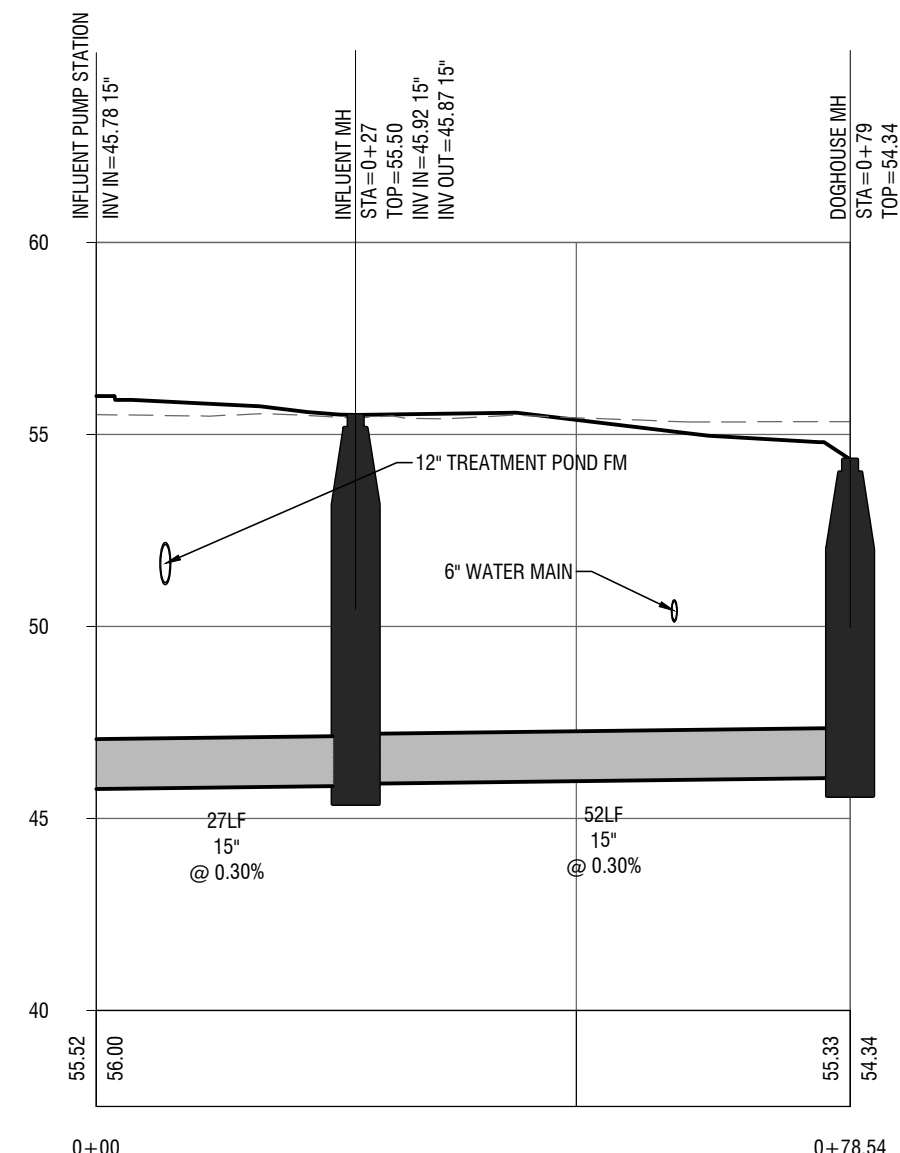
PROFILES

1

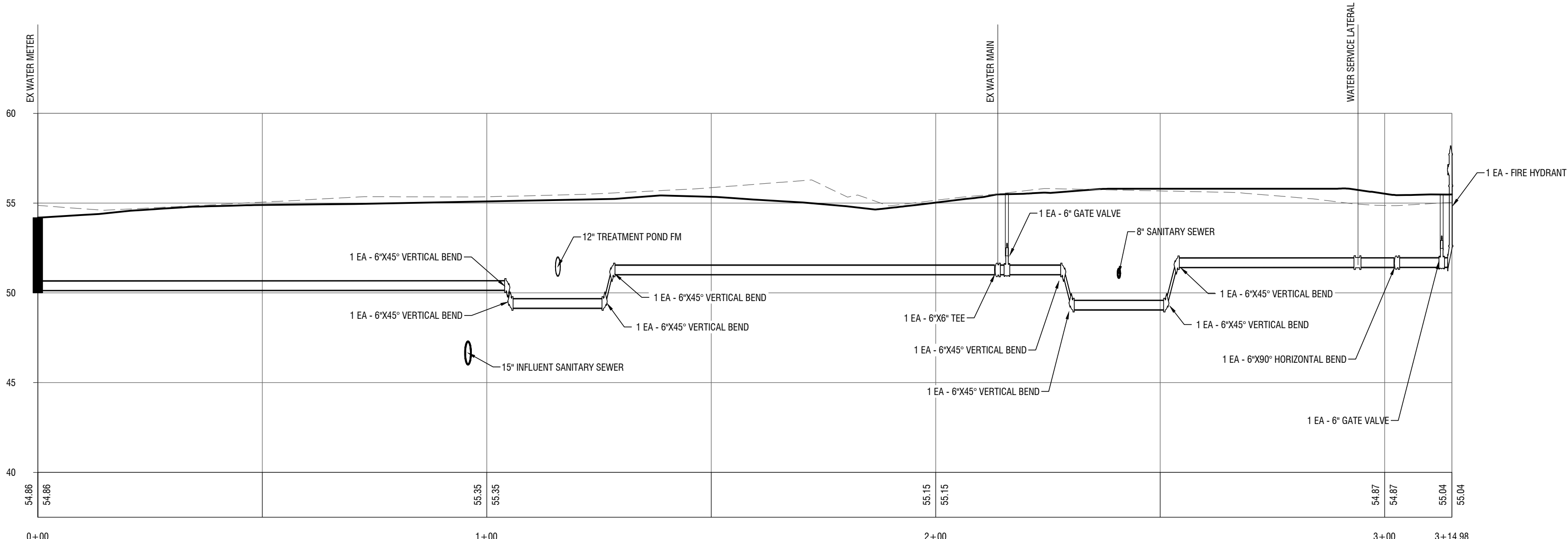
C6

FILE NO: 2013-36.1

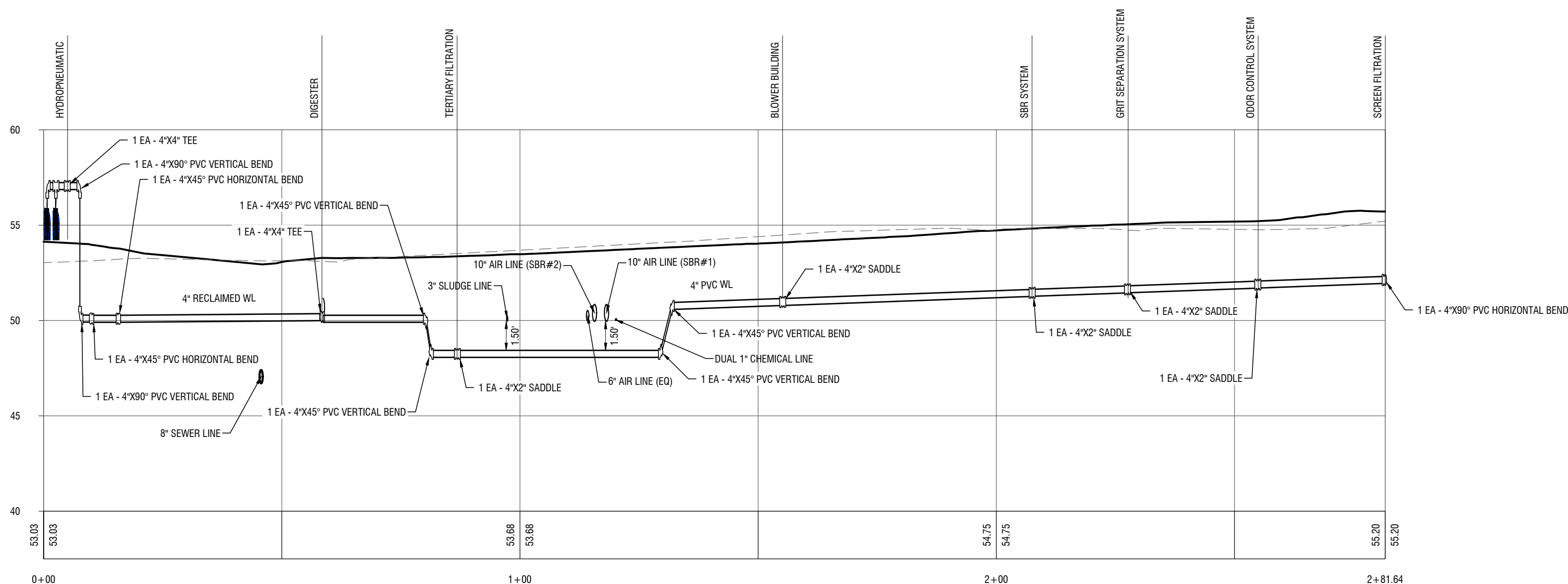
PLOT DATE: May 1, 2024



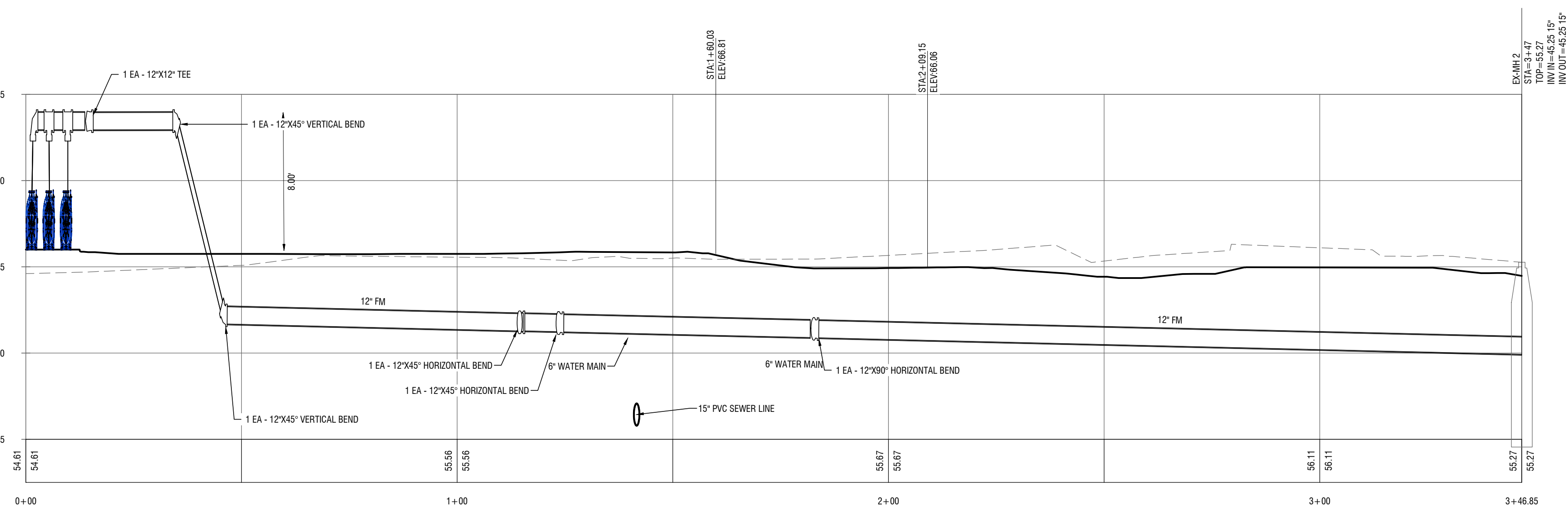
INFLUENT PROFILE
VERT. SCALE: 1"=2'
HORIZ. SCALE: 1"=10'



WATER LINE PROFILE
VERT. SCALE: 1"=2'
HORIZ. SCALE: 1"=10'



RECLAIMED WATER PROFILE
VERT. SCALE: 1"=2'
HORIZ. SCALE: 1"=10'



TREATMENT POND INFLUENT FM PROFILE
VERT. SCALE: 1"=2'
HORIZ. SCALE: 1"=10'

REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEEW NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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REGISTERED
Professional Engineer
MARCUS E. SACK
DATE: May 1, 2024

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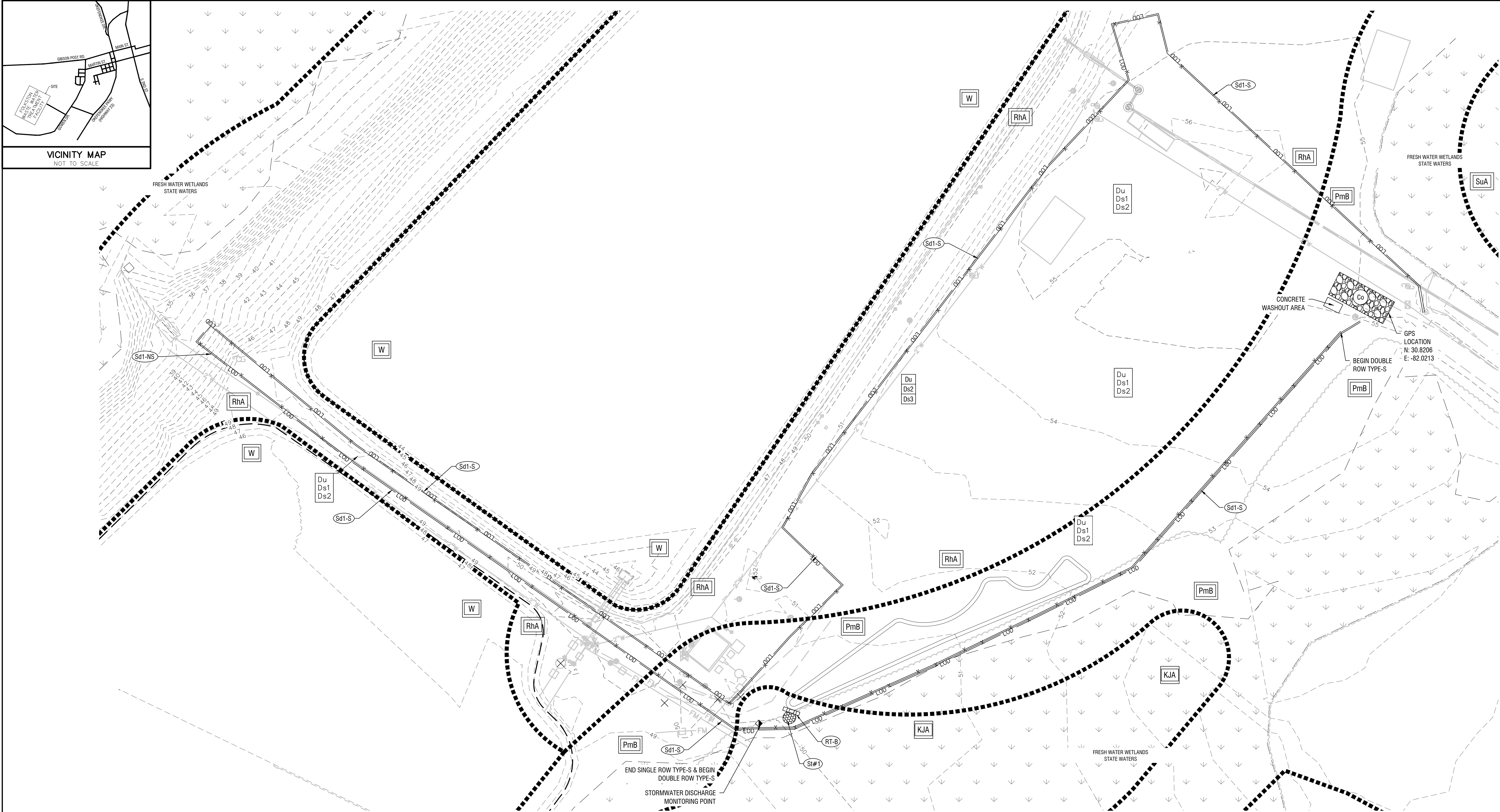
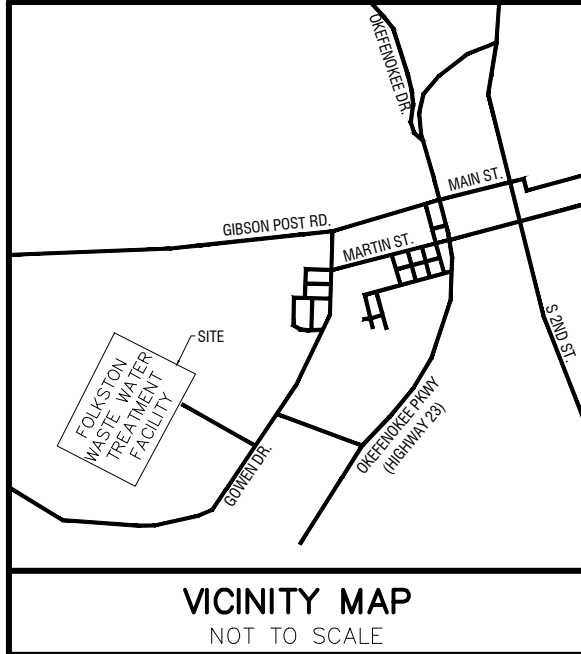
Water Pollution
Control Plant

PROFILES
2

C7

FILE NO: 2013-36.1

PLOT DATE: May 1, 2024



RUNOFF COEFFICIENT

PRE - CONSTRUCTION CN = 72
POST - CONSTRUCTION CN = 82

SOIL LEGEND	
W	WATER
PmB	PELHAM LOAMY FINE SAND
KJA	KINSTON AND JOHNSTON SOILS
RhA	RIDGEWOOD-HURRICANE COMPLEX
SuA	SURRENCY MUCKY FINE SAND

SILT STORAGE CALCULATION

ESTIMATED EROSION = 3.03 AC. X 67 C.Y. = 203 C.Y. STORAGE CAPACITY REQUIRED.
SEDIMENT BASIN STORAGE AVAILABLE = 5,213 C.Y.
Sd1-S STORAGE AVAILABLE = 2742 LF X .17 C.Y./LF = 466 C.Y.
TOTAL AVAILABLE SEDIMENT STORAGE = 5,679 C.Y.

RT CALCULATION

REQUIRED SEDIMENT STORAGE = 203 C.Y.
AVAILABLE STORAGE IN POND = 5,213 C.Y.
IS THE AVAILABLE STORAGE GREATER THAN THE TOTAL REQUIRED STORAGE? **(YES) NO**
CLEAN OUT ELEVATION = 50.00 FT
(ELEVATION CORRESPONDING TO 22 C.Y./AC * 13.22 AC DISTURBED)
IS THE LENGTH TO WIDTH RATIO 2:1 OR GREATER? **(YES) NO**

STORM OUTLET PROTECTION

STRUCTURE NO.	Do	La	W1	W2	d50	D	FLOW RATE (CFS)	VELOCITY (FPS)
ST #1	66"	10'	5.5'	15'	6"	13.5"	12.57	2.51

NOTE:

A SKIMMER WAS NOT USED FOR THIS DEVELOPMENT DUE TO LACK OF TOPOGRAPHY. INSTEAD A SLOTTED BOARD DAM WILL BE INCORPORATED WITH THE OUTLET CONTROL STRUCTURE TO DISCHARGE FROM THE TOP OF THE WATER COLUMN AS MUCH AS POSSIBLE.

CONSTRUCTION ACTIVITY DESCRIPTION

INITIAL PHASE - CONSISTS OF INSTALLING CONSTRUCTION EXIT, PERIMETER BMP'S, DUST CONTROL, AND TEMPORARY SEDIMENT PONDS. BEGIN CLEARING, GRUBBING, AND GRADING. BEGIN INSTALLING DETENTION PONDS AND RETROFITS.

INTERMEDIATE PHASE - MAINTAIN CONSTRUCTION EXIT AND SILT FENCE. USE DUST CONTROL, MULCHING, AND TEMPORARY GRASSING WHERE INDICATED.

FINAL PHASE - ONCE PERMANENT GRASSING IS ESTABLISHED TEMPORARY MEASURES CAN BE REMOVED INCLUDING: SILT FENCE, CONSTRUCTION EXITS.

SITE INFORMATION:

TOTAL SITE AREA = 3.03 AC
TOTAL DISTURBED AREA = 3.03 AC

EXISTING CONDITIONS:

THE SITE IS A IN USE WASTE WATER TREATMENT FACILITY WITH MULTIPLE CONCRETE STRUCTURE, ASSOCIATED UTILITIES ALONG WITH A GRAVEL DRIVE.

DESIGN PROFESSIONAL

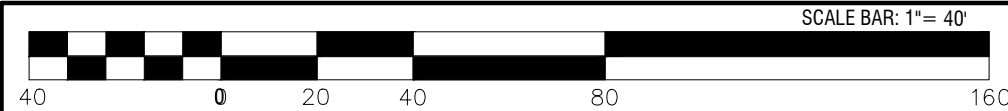
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GSWCC LEVEL II
CERTIFICATION # 70248
EXPIRES: 06-14-2026

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2	UPDATE TO MEEW NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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MARCUS E. SACK
DATE: May 1, 2024

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COUNTY:
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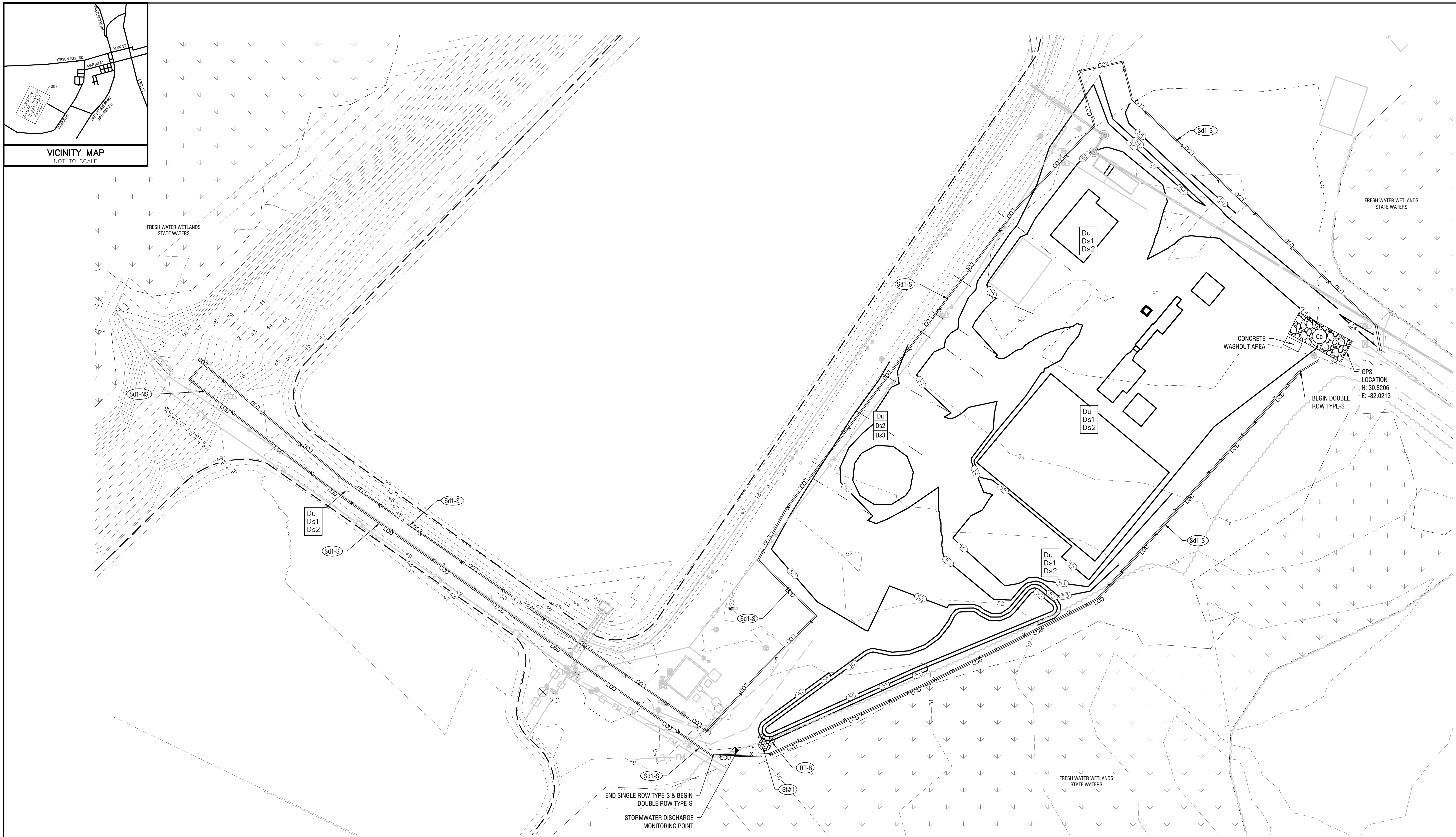
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Water Pollution
Control Plant

INITIAL
ES&CP

C8

FILE NO: 2013-36.1
PLOT DATE: May 1, 2024



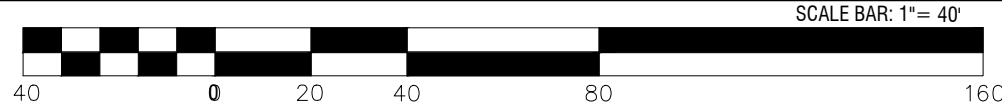
RUNOFF COEFFECIENT
PRE - CONSTRUCTION CN = 72
POST - CONSTRUCTION CN = 8



SITE INFORMATION:
TOTAL SITE AREA = 3.03 AC
TOTAL DISTURBED AREA = 3.03 AC

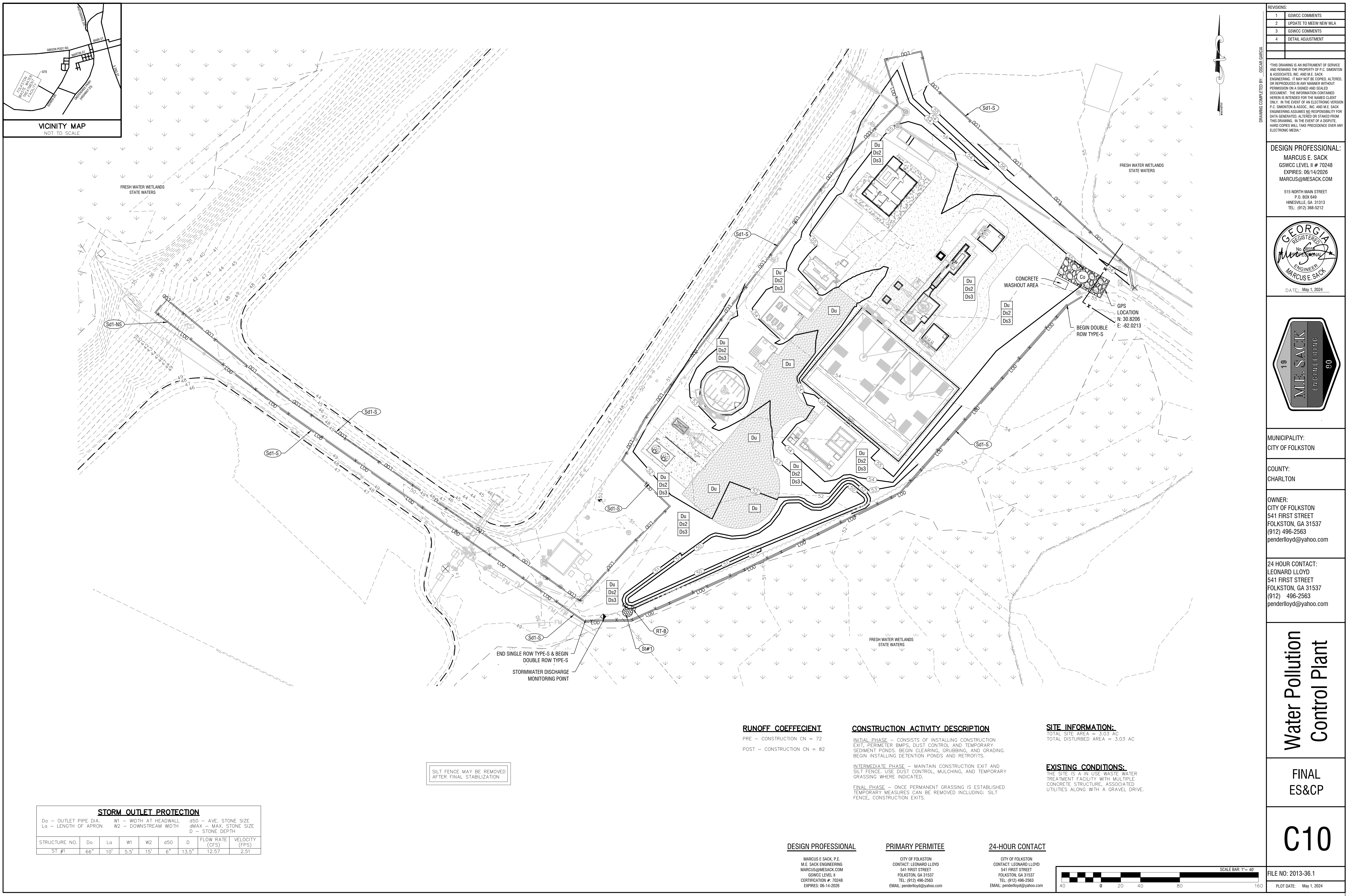
EXISTING CONDITIONS:
THE SITE IS A IN USE WASTE WATER
TREATMENT FACILITY WITH MULTIPLE
CONCRETE STRUCTURE, ASSOCIATED
UTILITIES ALONG WITH A GRAVEL DRIVE



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1	REVISIONS:
2	GSWCC COMMENTS
3	UPDATE TO MEWEH NEW WILA
4	GSWCC COMMENTS
5	DETAIL ADJUSTMENT
6	
7	
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 <p>DATE: May 1, 2024</p>	
	
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<p>Water Pollution Control Plant</p>	
<p>INTERMEDIATE ES&CP</p>	
<p>C9</p>	
<p>FILE NO: 2013-36.1</p> <p>PLOT DATE: May 1, 2024</p>	



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 <p>DATE: May 1, 2024</p>	
	
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<p>Water Pollution Control Plant</p> <p>FINAL ES&CP</p> <p>C10</p>	
<p>FILE NO: 2013-36.1</p>	
<p>PLOT DATE: May 1, 2024</p>	

GEORGIA UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A gravelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

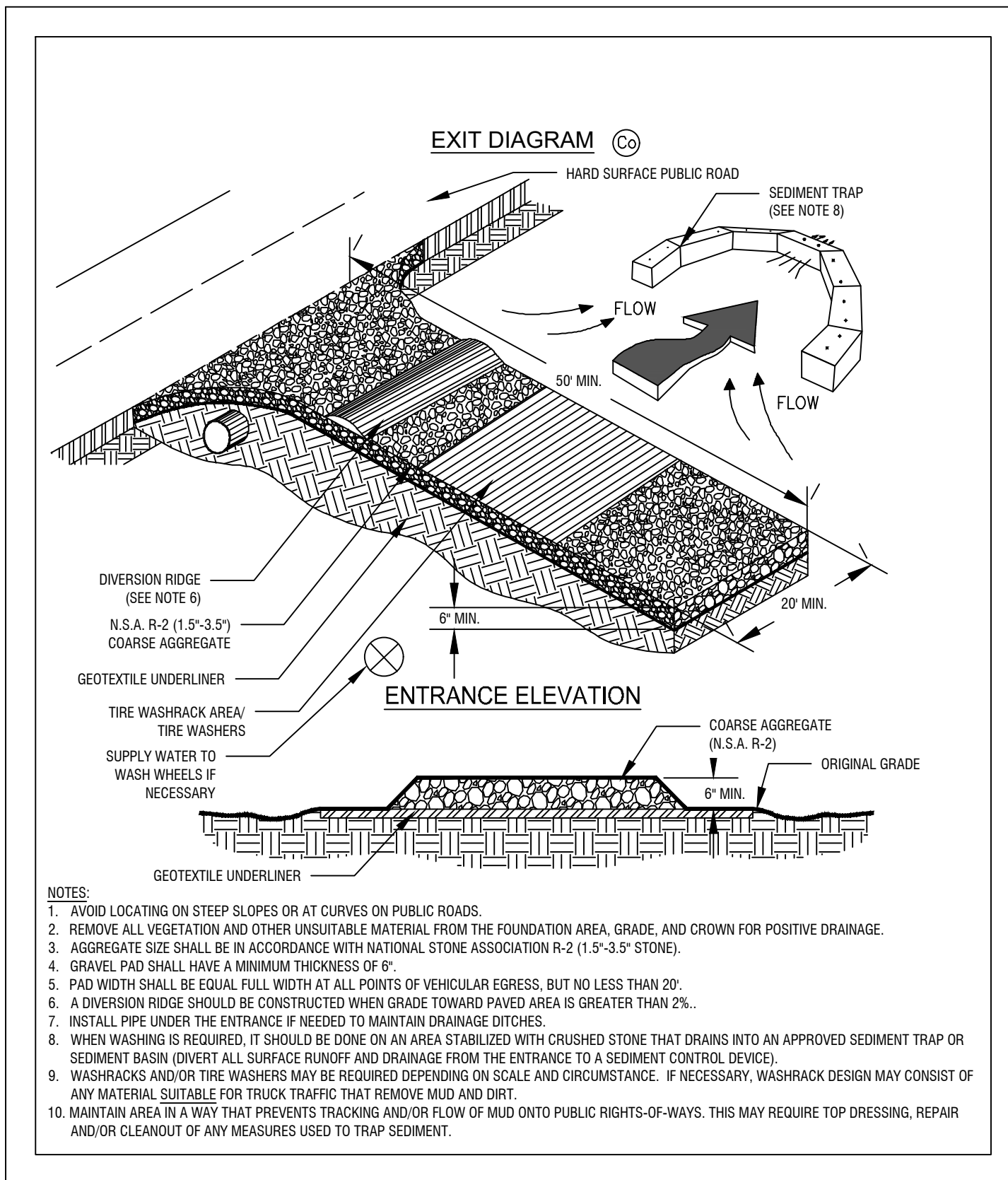
STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or stacked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Vt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retardant cover, but which can be stabilized with a mulch cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM. SEEDING)			Establishing a permanent vegetative cover with fast growing seedlings on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fi-Ca	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM. VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or cutbanks.
Tac	TACKIFIERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

GoSWCC (Amended - 2013)



Ds1 DISTURBED AREA STABILIZATION (W/MULCHING ONLY)

SPECIFICATIONS

- A. For temporary protection of critical areas without seeding.
This standard applies to grades or cleared areas which may be subjected to erosion for 6 months or less, where seeding may not have a suitable growing season to produce an erosion retardant cover, but which can be stabilized with a mulch cover.

Site Preparation

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

Mulching Materials

- Dry straw or hay - spread at a rate of 2 1/2 tons per acre.
- Wood waste, chips, sawdust or bark - spread 2 to 3 inches deep (about 6 to 9 tons per acre).
- Erosion control matting or netting, such as excelsior, jute, burlap and plastic matting and netting - applied in accordance with manufacturers recommendations.
- Cutback asphalt, slow curing - applied at 1200 gallons per acre (or 1/4 gallon per sq. yd.)
- Polyethylene film - secured over banks or stockpiled soil material for temporary protection.

Applying and Anchoring Mulch

- Apply straw or hay mulch uniformly by hand or mechanically. Anchor as appropriate and feasible. It may be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk". The disk may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but press it into the soil leaving much of it in an erect position. Straw hay mulch spread with special blower-type equipment may be anchored with emulsified asphalt (Grade AE-5 or SS-1). The asphalt emulsion must be sprayed onto the mulch as it is ejected from the machine. Use 100 gallons of water per acre.
 - Spread wood waste uniformly on slopes that are 3:1 and flatter. No anchoring is needed.
 - Commercial matting and netting. Follow manufacturer's specification included with the material.
 - Apply asphalt to areas has uniform appearance. (Note: Use in areas of pedestrian traffic could cause problems or "tracking in" or damage to shoes, clothing, etc.)
- B. To conserve moisture and control weeds in nurseries, ornamental beds, around shrubs, and on bar areas on lawns.

Mulching Materials

Use one of the materials given below and apply at thickness indicated.

Material	Depth
1. Grain straw or grass hay	6" to 10"
2. Fine weeds	4" to 6"
3. Wood waste (sawdust, bark, chips)	4" to 8"
4. Shredded residues (crops, leaves, etc.)	4" to 8"
5. Completely cover area with black polyethylene film and hold in place by placing soil on the outer edge.	

When using organic mulches, apply 20-30 pounds of nitrogen in addition to the normal amount needed for plant growth to offset the tie up of N by decomposition of mulch.

Du DUST CONTROL ON DISTURBED AREAS

PURPOSE

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

Temporary Methods

- Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet.
- Mulching - See Ds1- Disturbed Area Stabilization (with Mulching only)
- Vegetative Cover - See Ds2- Disturbed Area Stabilization

Permanent Methods

- Permanent Vegetation - See Ds3- Disturbed Area Stabilization (with Permanent Vegetation)

Ds4 DISTURBED AREA STABILIZATION (W/SODDING)

SPECIFICATIONS

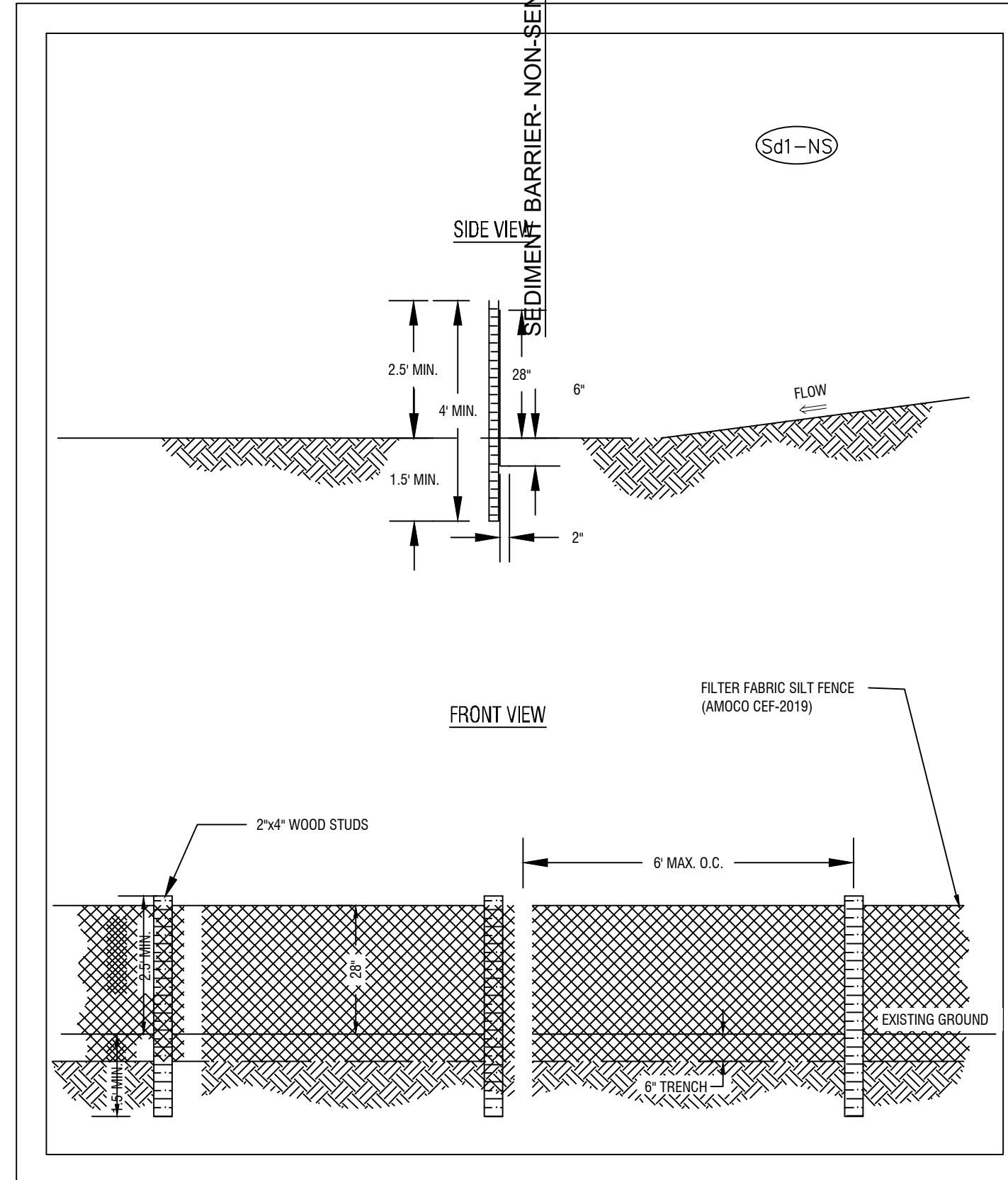
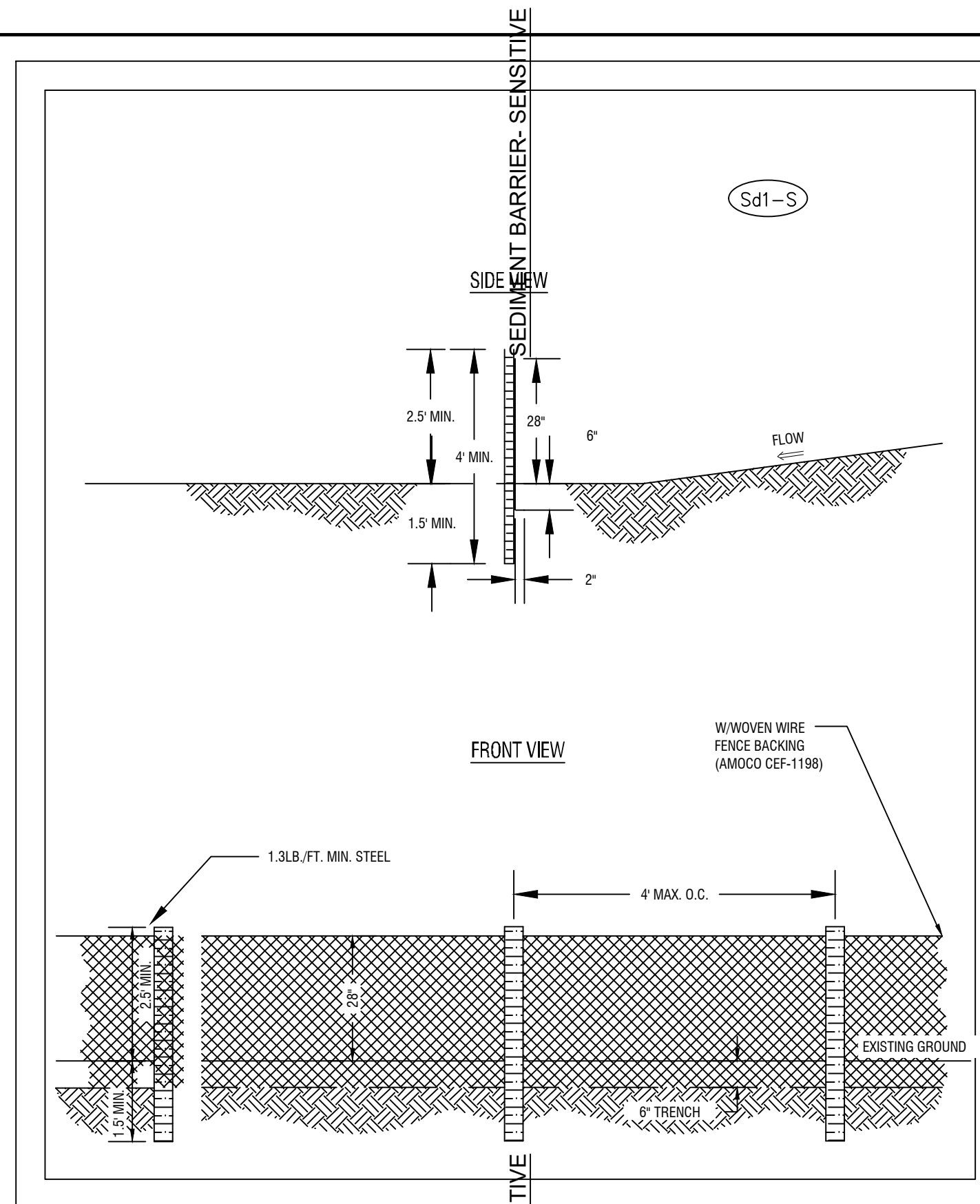
Establishing permanent vegetative using sods on highly erodible or critically eroded lands.

Site Preparation

- Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils. Topsoil properly applied will help guarantee a stand. Do not use topsoil recently treated with herbicides or soil sterilants.
- Mix fertilizer into surface. Fertilizer based on soil tests. Agriculture lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.

Applying Sods

- Sod should be machine cut and contain 3/4" (+ or - 1/4") of soil, not including shoots or thatch.
- Sod should be cut to the desired size within + or - 5%. Torn or uneven pads should be rejected.
- Sod should be cut and installed within 96 hours of digging.
- Avoid planting when subject to frost heave or hot weather if irrigation is not available.



Ds2 SPECIES AND PLANTING SCHEDULE

SPECIES	BROADCAST RATES 1" PER ACRE	PLS 2" PER 1000 SF	RESOURCE AREA 1"	PLANTING DATES BY RESOURCE AREAS*												REMARKS
				J	F	M	A	M	J	J	A	S	O	N	D	
RYEGRASS, ANNUAL	40 lbs	0.9 lbs	M-L													227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT BE USED IN MIXTURES.
ALONE			P													
C																

Ds3 SPECIES AND PLANTING SCHEDULE

SPECIES	BROADCAST RATES 1" PER ACRE	PLS 2" PER 1000 SF	RESOURCE AREA 1"	PLANTING DATES BY RESOURCE AREAS*												REMARKS
				J	F	M	A	M	J	J	A	S	O	N	D	
BERMUDA, COMMON HULLED SEED ALONE	10 lbs	0.2 lbs	P													1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
WITH OTHER PERENNIALS	6 lbs	0.1 lbs	C													
BERMUDA, COMMON UNHULLED SEED ALONE			P													PLANT WITH WINTER ANNUALS.
WITH OTHER PERENNIALS			C													PLANT WITH TALL FESCUE.
BERMUDA, SPRIGS COASTAL, COMMON, MIDLAND, OR TIF 44	40 CU FT PER SOD PLUGS 3\" x 3\"	0.9 CU FT PER SOD PLUGS 3\" x 3\"	M-L													A CUBIC FT. CONTAINS APPROXIMATELY 650 SPRIGS. A BUSHEL CONTAINS 1.25 CF. OR APPROXIMATELY 800 SPRIGS. SAME AS ABOVE.
COASTAL, COMMON, TIF 44			P													
TIF 78			C													SOUTHERN COASTAL PLAIN ONLY

FERTILIZER REQUIREMENTS

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT	RATE	N TOP DRESSING RATE	LIME APPLICATION
Cool Season Grasses	First	6-12-12	1500 lbs/ac	50-100 lbs/ac 1*2	2000 lbs/ac
Second Maintenance		6-12-12	1000 lbs/ac	--	30
Cool Season Grasses and Legumes	First	6-12-12	1500 lbs/ac	0-50 lbs/ac 1*	2000 lbs/ac
Second Maintenance		6-12-12	1000 lbs/ac	--	30
Ground Covers	First	10-10-10	1500 lbs/ac	--	--
Second Maintenance		10-10-10	1000 lbs/ac	--	--
Pine Seedlings	First	20-10-5	one 21-gran pallet per seedling placed in the closing hole	--	--
Shrub Leavedora	First	0-10-10	700 lbs/ac	--	--
10-10-10			700 lbs/ac 4*	--	--
Temporary Cover Crops Seeded Close	First	10-10-10	500 lbs/ac	30 lbs/ac 5*	--
Warm Season Grasses	First	6-12-12	1500 lbs/ac	50-100 lbs/ac 2*6*	2000 lbs/ac
Second Maintenance		6-12-12	800 lbs/ac	50-100 lbs/ac 2*6*	30 lbs/ac
Warm Season Grasses and Legumes	First	6-12-12	1500 lbs/ac	50 lbs/ac 6*	2000 lbs/ac
Second Maintenance		6-12-12	1000 lbs/ac	--	30

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

SOD PLANTING REQUIREMENTS

GRASS	VARIETIES	RESOURCE AREA	GROWING SEASON
1. BERMUDAGRASS	Common Tifway Tifgreen Tiflawn	M-L, P C P C P C	Warm Weather
2. TALL FESCUE	Kentucky 31	M-L, P	Cool Weather

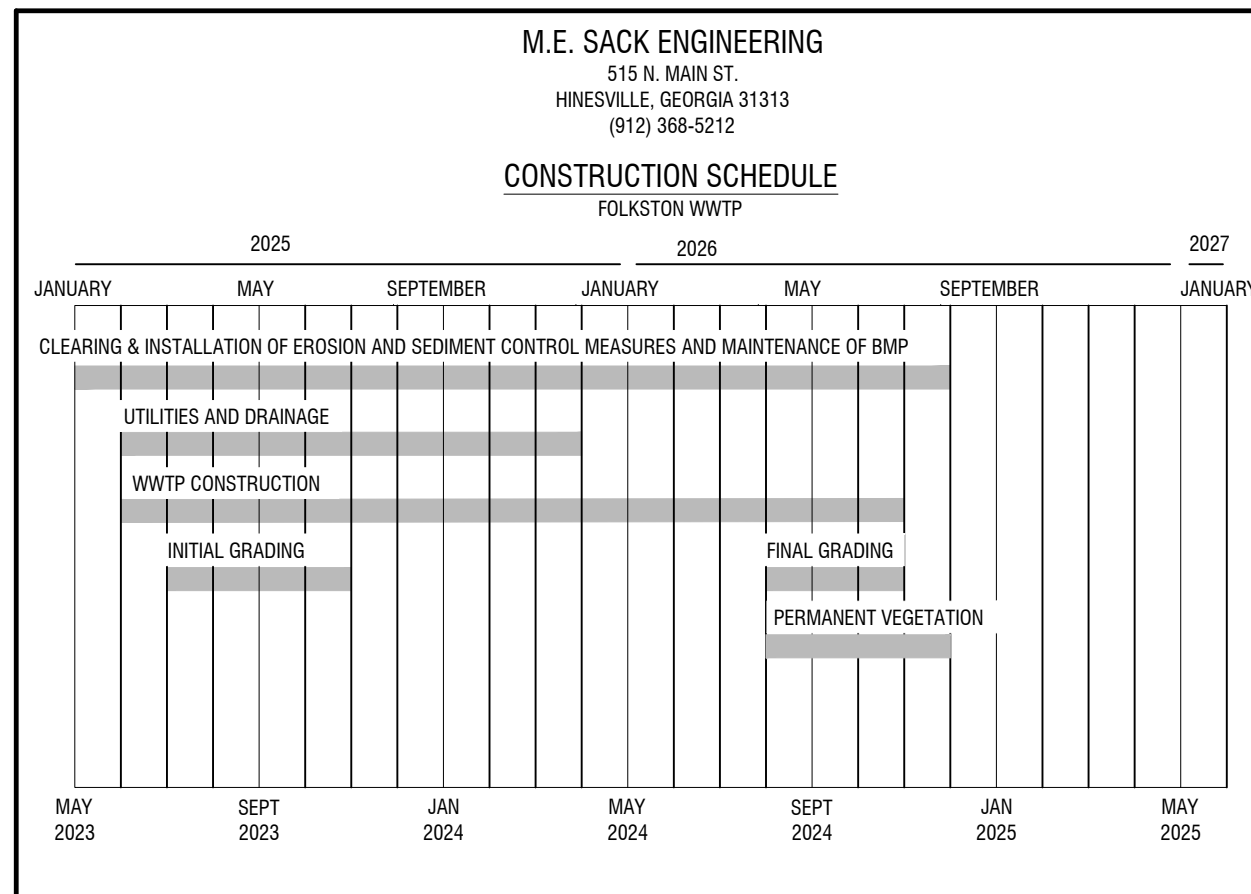
FERTILIZER REQUIREMENTS FOR SOD

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS. ACRE)	NITROGEN TOP DRESSING RATE (LBS. ACRE)
COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 1000 400	50-1000 30
WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 800/400	50-1000 50-100 30

MULCHING RATES FOR PERMANENT COVER

TYPE OF MULCH	RATE PER ACRE	NOTES
Dry straw	2 Tons	Free of weed seeds
Dry hay	2.5 Tons	Free of weed seeds
Wood Cellulose	500 lbs. 1000 lbs.	Slope less than 3/4:1 Slope greater than 3/4:1
Wood Pulp Fiber	500 lbs. 1000 lbs.	Slope less than 3/4:1 Slope greater than 3/4:1
Seriesa Lespedeza Hay	3 Tons	Containing mature seeds
Pine Straw or Bark	3 inches thick	For bedding Not for seeding
Bituminous treated roving	See DOT specs.	Use on slopes, in ditches, or dry waterways.

- Mulching is not required for temporary grassing.
- Mulch shall be applied to cover 75% of the soil surface.
- Sod does not require mulch.



REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEEN NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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DATE: May 1, 2024

M.E. SACK ENGINEERING

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Water Pollution Control Plant

ES&CP DETAILS

C12

FILE NO: 2013-36.1

PLOT DATE: May 1, 2024

OUTLET CONTROL STRUCTURE

SECTION B-B

6'

EL.=51.00

CONC. WING

EL.=50.00

2'

3'

12'

4" THICK CONCRETE (4000 PSI.) TURN DOWN

SECTION A-A

9.5'

6" CONCRETE 4000 PSI

2" (TYP)

EL.=51.00

EL.=50.00

5.5'

The diagram illustrates the design of a storm drain outlet protection. It consists of two views: a Plan view and a Section view.

- Plan View:** Shows a rectangular area of stone with a width labeled $W = C_s \times L_a$. A circular outlet pipe with diameter d_{50} is shown at one end. A distance L_a is marked from the pipe to the edge of the stone area. A label "MINIMUM TAILWATER" is at the top.
- Section View:** Shows a cross-section of the stone area with a depth D . Below the stone is a layer of "FILTER MATERIAL". The top surface of the stone is labeled "FINISH GRADE".

NOTES:

1. REFER TO STORM DRAIN OUTLET PROTECTION CHART FOR DIMENSIONING INFORMATION.
2. C_s = DIAMETER OF OUTLET PIPE
3. d_{50} = MIN. STONE DIAMETER
4. d_{50} = MAX. STONE DIA. = $(1.5 \times d_{50})$
5. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6".
6. EXTEND THE RIPRAP APRON UP THE CHANNEL BANK TO THE TOP OF THE CHANNEL BANK.
7. A FILTER BLANKET OR FILTER FABRIC SHALL BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION. FILTER BLANKET SHALL CONSIST OF A GRADED GRAVEL LAYER OR SYNTHETIC FILTER CLOTH. FILTER BLANKET IS INTENDED TO PREVENT SOIL MOVEMENT THROUGH THE OPENINGS IN RIPRAP.
8. RIPRAP APRON AND FILTER MATERIAL SHALL BE WELL GRADED, LEVEL, AND EXTENDED TO ACHIEVE MAX. STABILITY.

CONCRETE WASHOUT

10' MIN.

10' VORES

STAKE (TYP.)

B

STRAW BALES (TYP.)

PLAN
"TYPE "ABOVE GRADE"
WITH STRAW BALES

LETTERS A MINIMUM OF 5" IN HEIGHT

CONCRETE WASHOUT

CONCRETE WASHOUT SIGN DETAIL

STAPLES 1/2" DIA. 4" STAPLE
(2 PER BALE)

NATIVE MATERIAL (OPTIONAL)

IMPERVIOUS LINER

WOOD OR METAL STAKES
(2 PER BALE)

BINDING WIRE

STRAW BALES

SECTION B-B

NOTES:

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

TEMPORARY SEDIMENT BASIN

(Sd3)

CROSS SECTION

The cross-section diagram illustrates the structure of a temporary sediment basin. It features a central embankment with a 2.5:1 or flatter slope, stabilized with vegetation. The embankment is topped with a freeboard of at least 1 foot. A trash rack is positioned at the inlet, with a riser pipe for the principal spillway. The basin floor is composed of selected fill placed in layers and compacted, with a cut-off trench at least 2 feet deep. An anti-seep collar is used to prevent leakage. The basin is stabilized with vegetation on the slopes. A principal spillway pipe leads to a stabilized outlet. A flood pool is located upstream of the trash rack. The basin is also equipped with an anti-flotation block and 1/2 inch drainage holes with gravel 3/4 inch in size.

Labels in the cross-section diagram include:

- FLOOD POOL
- EMERGENCY SPILLWAY CREST
- TRASH RACK
- 1" MIN.
- FREEBOARD- 1' MIN.
- 2.5:1 OR FLATTER EMBANKMENT STABILIZED WITH VEGETATION
- PRINCIPAL SPILLWAY PIPE
- STABILIZED OUTLET
- ANTI-SEEP COLLAR
- CUT-OFF TRENCH 2' DEEP MIN.
- SELECTED FILL PLACED IN LAYERS AND COMPACTED
- ANTI-FLOTATION BLOCK
- 1/2" DRAINAGE HOLES WITH GRAVEL 3/4" STONE
- PRINCIPAL SPILLWAY PIPE

FILL HEIGHT	MINIMUM TOP WIDTH
LESS THAN 10 FEET	8.0 FEET
10 FEET TO 15 FEET	10 FEET

PLAN VIEW

The plan view diagram shows the layout of the sediment basin. It includes the control section of the emergency spillway, the top of the embankment, and the principal spillway. A riser with a trash rack is shown at the inlet. The basin is shown with a sediment basin area. A rock rip-rap outlet is located at the end of the principal spillway. The diagram also shows the layout of the embankment and the spillways.

Labels in the plan view diagram include:

- CONTROL SECTION OF EMERGENCY SPILLWAY
- TOP OF EMBANKMENT
- PRINCIPAL SPILLWAY
- RISER WITH TRASH RACK
- SEDIMENT BASIN
- ROCK RIP-RAP OUTLET

NOTES:


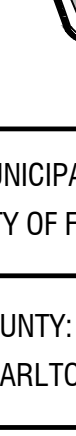
1. THE EMERGENCY SPILLWAY SHALL BE INSTALLED IN UNDISTURBED GROUND.
2. THE EMERGENCY SPILLWAY MUST BE CONSTRUCTED WITH A TOLERANCE OF 0.2 FEET

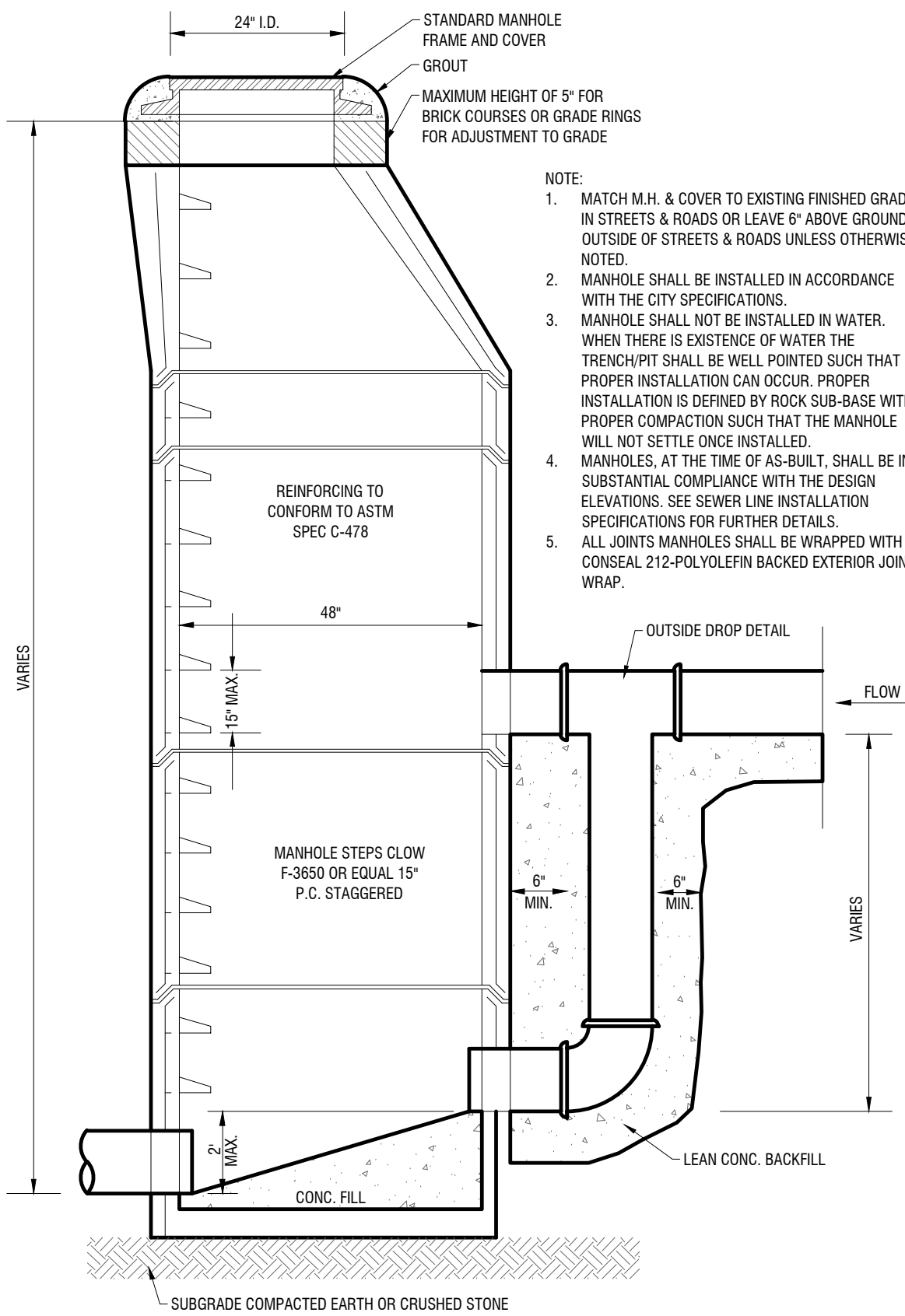
TREE PROTECTION

FOR ADDED PROTECTION

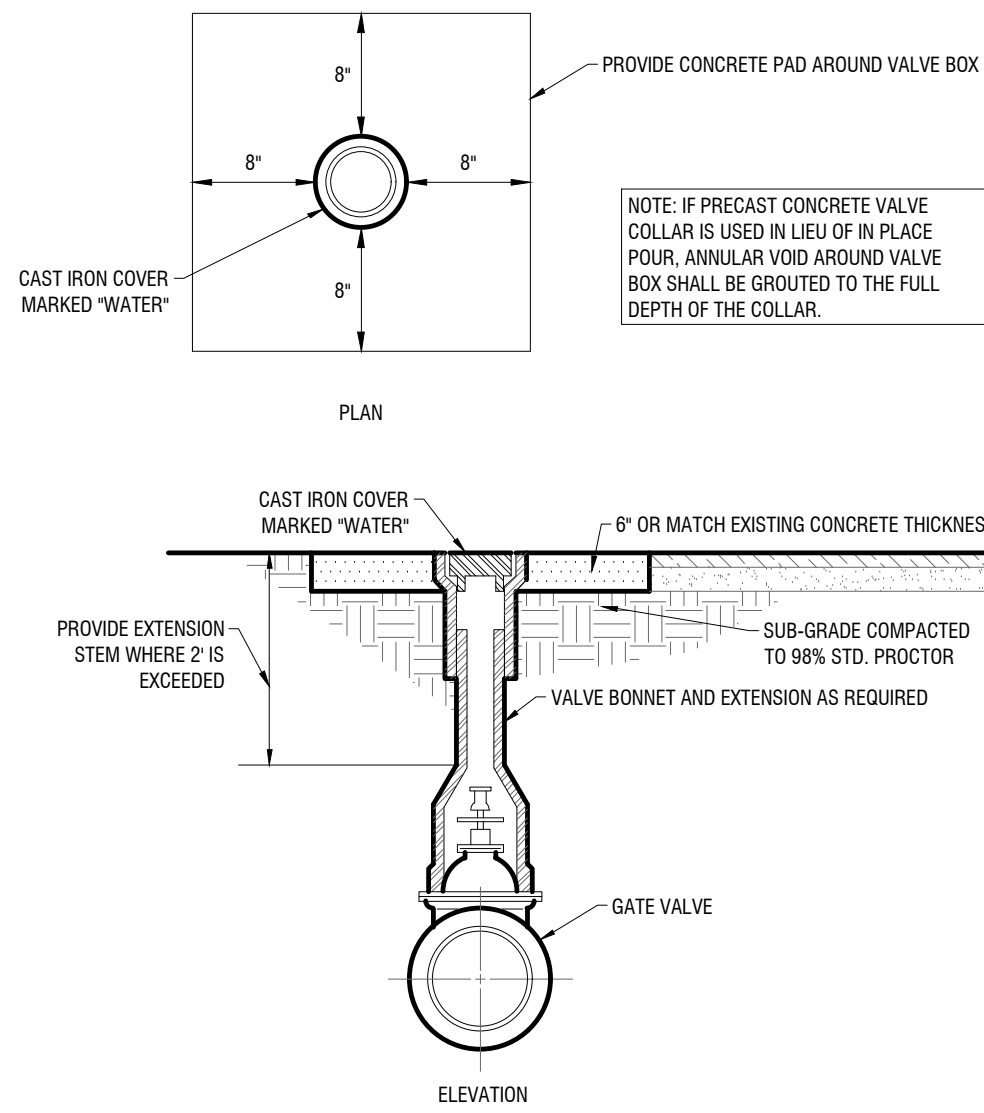
- PROVIDE 4" DEEP ORGANIC MULCH OVER ANY UNPROTECTED ROOT ZONE.
- PROVIDE TEMPORARY IRRIGATION WHERE PRACTICAL AND FEASIBLE.

BARRIER CONSTRUCTED TO PROTECT TREE TRUNK, CROWN, AND ROOT SYSTEM FROM INJURY. BARRIERS SHALL BE LOCATED AT THE LIMITS OF THE TREE'S CRITICAL ROOT ZONE (A RADIUS OF ONE AND A HALF FEET PER INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT). BARRIER SHALL BE KEPT IN GOOD CONDITION FOR THE DURATION OF THE PROJECT AND IS TO REMAIN IN PLACE UNTIL THE NOTICE OF TERMINATION.

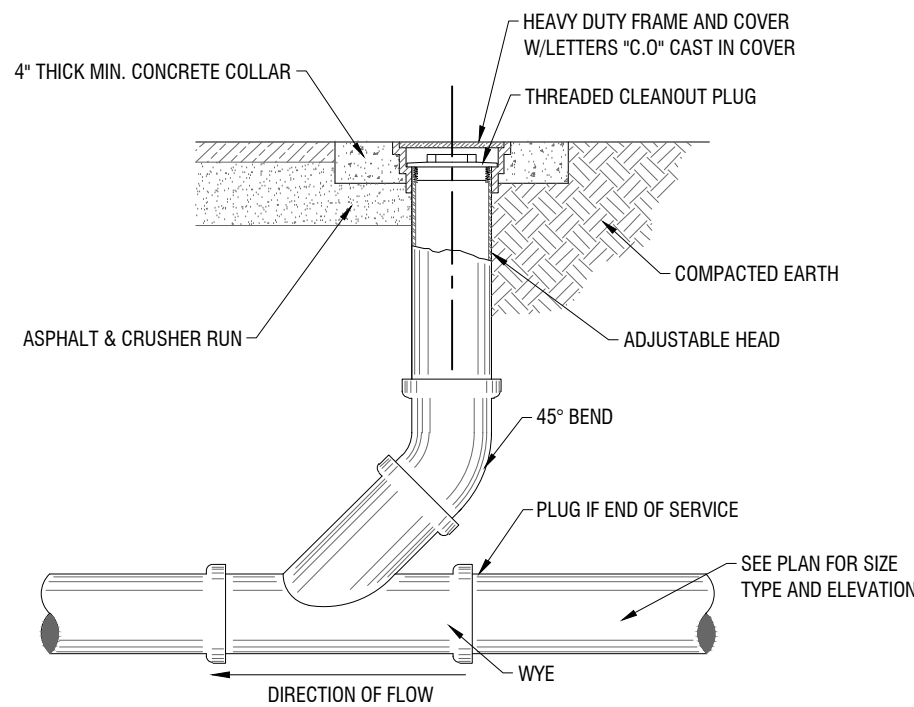
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2	UPDATE TO MEOW NEW WILA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT
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<h1>Water Pollution Control Plant</h1>	
ES&CP DETAILS	
<h1>C13</h1>	
FILE NO: 2013-36.1	
PLOT DATE: May 1, 2024	



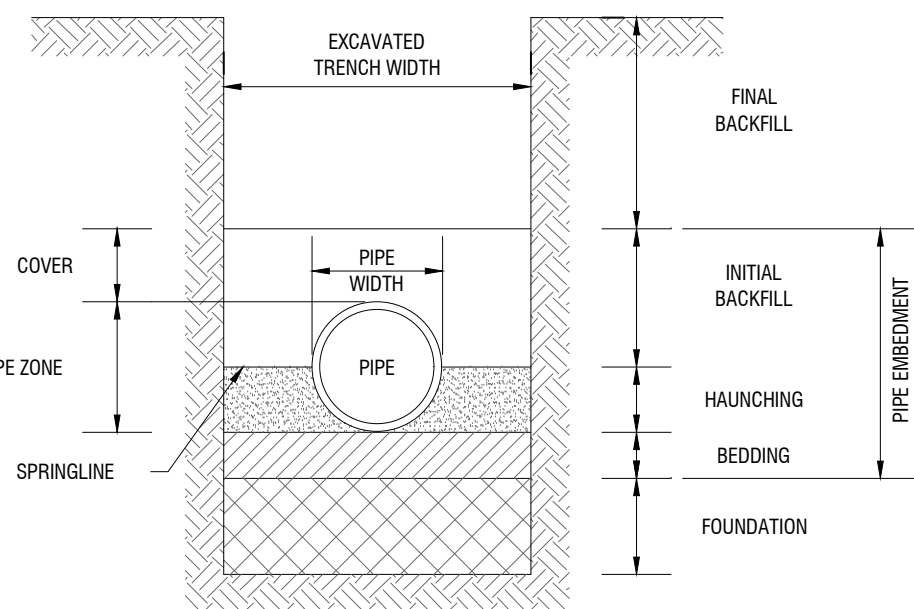
PRECAST CONCRETE MANHOLE
N.T.S.



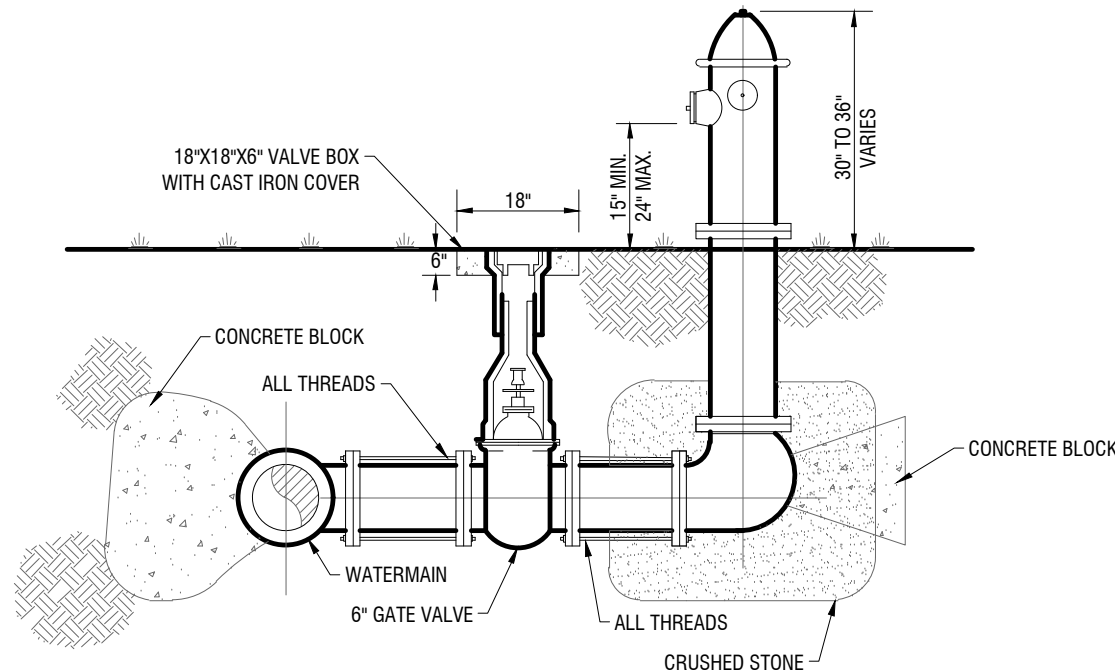
VALVE BOX DETAIL
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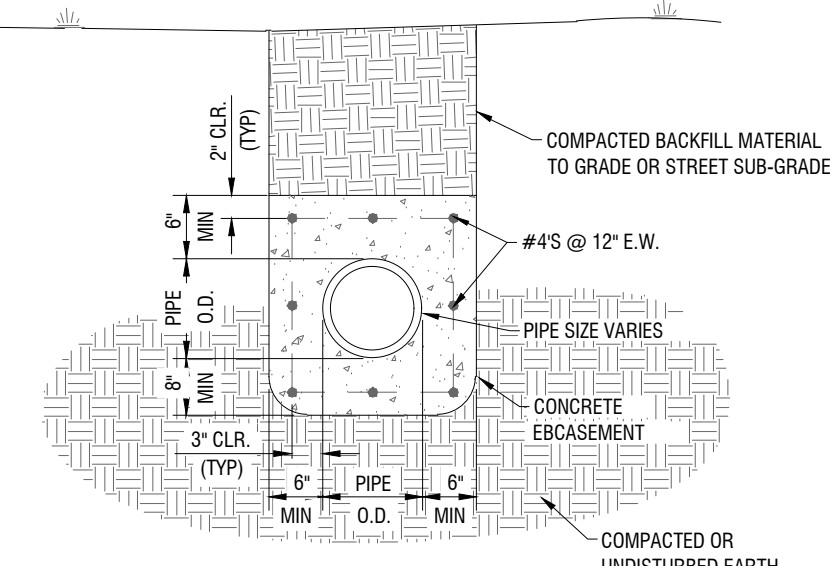
CLEANOUT DETAIL
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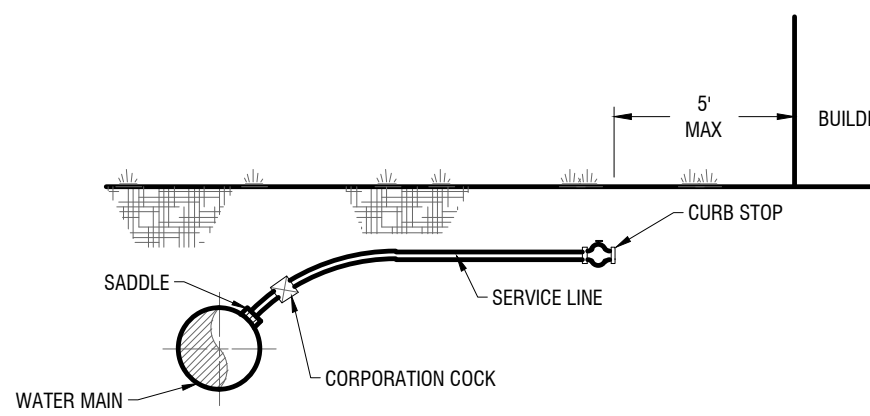
PIPE BEDDING DETAIL
N.T.S.



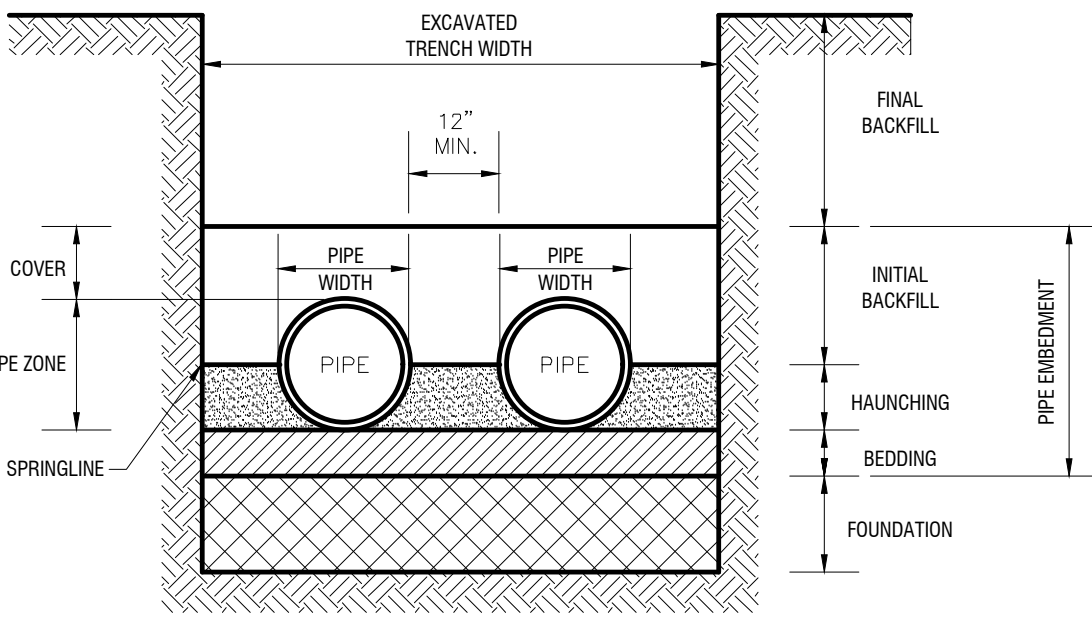
FIRE HYDRANT DETAIL
N.T.S.



CONCRETE ENCASEMENT DETAIL
N.T.S.



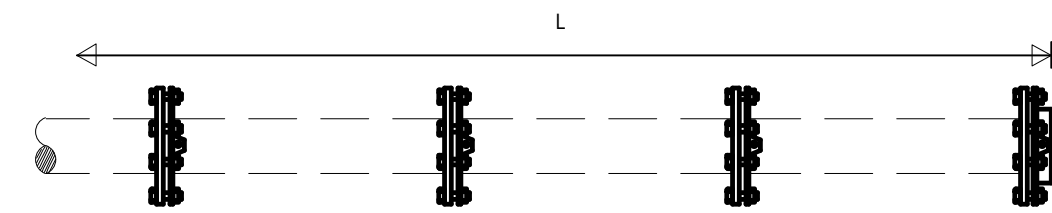
WATER SERVICE DETAIL
N.T.S.



PARALLEL FORCEMAIN PIPE BEDDING DETAIL
N.T.S.

DUCTILE IRON LINE							
TEE	U ₁	5'-10'	11'-20'	21'-35'	36'-50'	50'-75'	75'-100'
4X4	23	15	2	*	*	*	*
6X4	21	9	*	*	*	*	*
8X6	35	27	14	*	*	*	*
8X4	18	3	*	*	*	*	*
8X6	33	23	5	*	*	*	*
8X8	47	39	26	6	*	*	*
10X4	16	*	*	*	*	*	*
10X6	31	18	*	*	*	*	*
10X8	46	36	19	*	*	*	*
10X10	57	49	36	17	*	*	*
12X4	13	*	*	*	*	*	*
12X6	30	14	*	*	*	*	*
12X8	44	32	13	*	*	*	*
12X10	56	47	31	7	*	*	*
12X12	68	60	47	28	*	*	*
16X6	26	4	*	*	*	*	*
16X8	41	25	*	*	*	*	*
16X10	54	41	20	*	*	*	*
16X12	66	56	38	*	*	*	*
16X16	89	81	38	*	*	*	*
20X6	22	*	*	*	*	*	*
20X8	38	18	*	*	*	*	*
20X10	51	35	8	*	*	*	*
20X12	64	51	28	*	*	*	*
20X16	87	77	60	35	10	*	*
20X20	106	100	87	67	48	*	*
24X6	18	*	*	*	*	*	*
24X8	35	10	*	*	*	*	*
24X10	49	29	*	*	*	*	*
24X12	62	45	17	*	*	*	*
24X16	86	73	53	22	*	*	*
24X20	107	97	81	57	33	*	*
24X24	127	119	106	56	66	3	*

MINIMUM RESTRAINED LENGTH (L)
* RESTRAINT AT TEE ONLY



TEE RESTRAINT

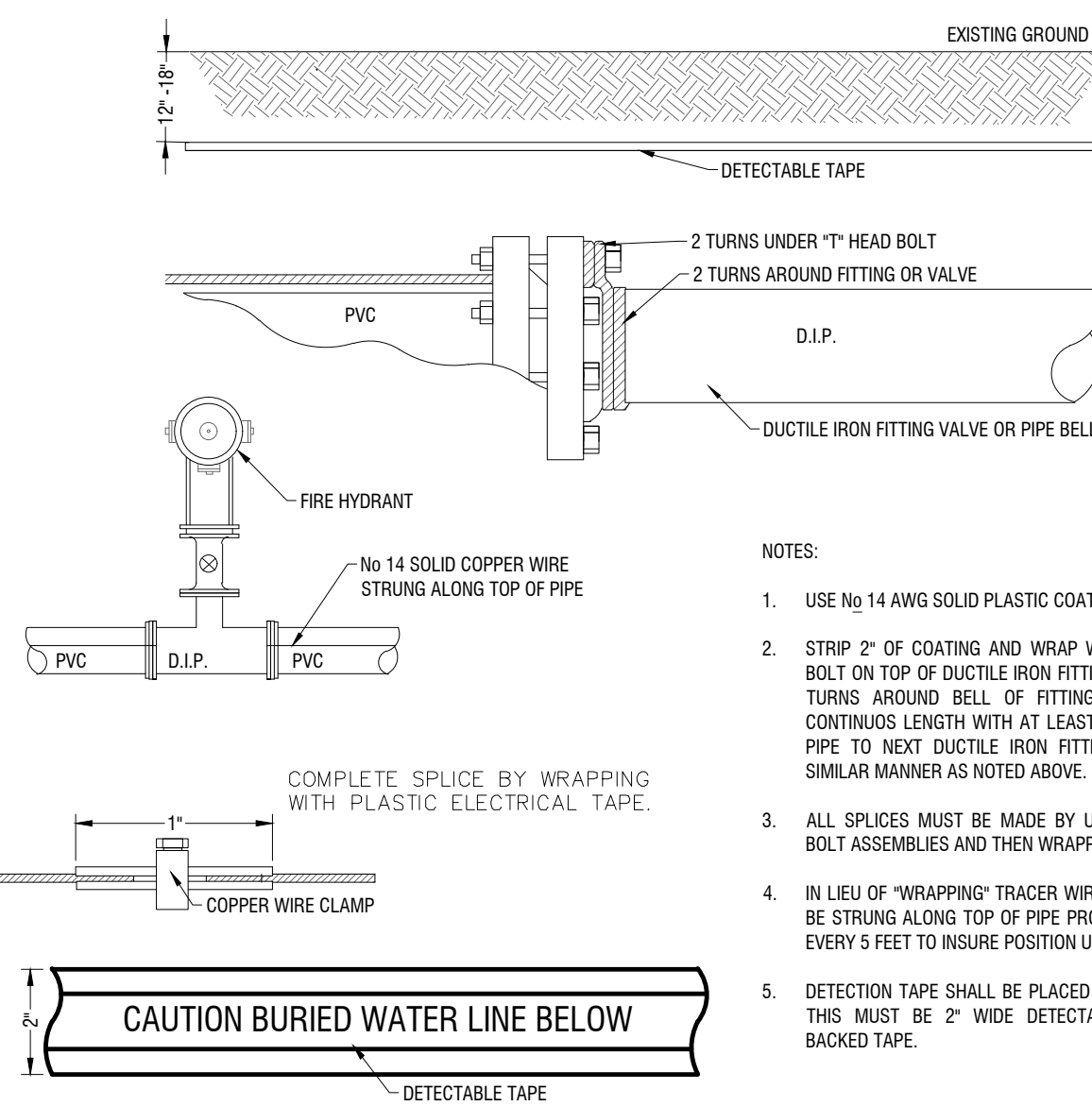
PIPE DIA.	DUCTILE IRON		PVC LINE	
	L	L	L	L
4	28	52		
6	40	74		
8	52	96		
10	62	115		
12	73	136		
16	94			
20	114			
24	132			

DEAD END RESTRAINT

PIPE DIAMETER	DUCTILE IRON				PVC LINE			
	11 1/2"	22 1/2"	45"	90"	11 1/2"	22 1/2"	45"	90"
4	2	4	8	20	3	6	12	29
6	3	6	12	28	4	8	17	41
8	4	7	15	36	5	11	22	53
10	4	9	18	43	6	13	26	64
12	5	10	21	51	7	15	31	75
16	6	13	27	65				
20	8	16	33	79				
24	9	18	38	92				

HORIZONTAL BEND RESTRAINT

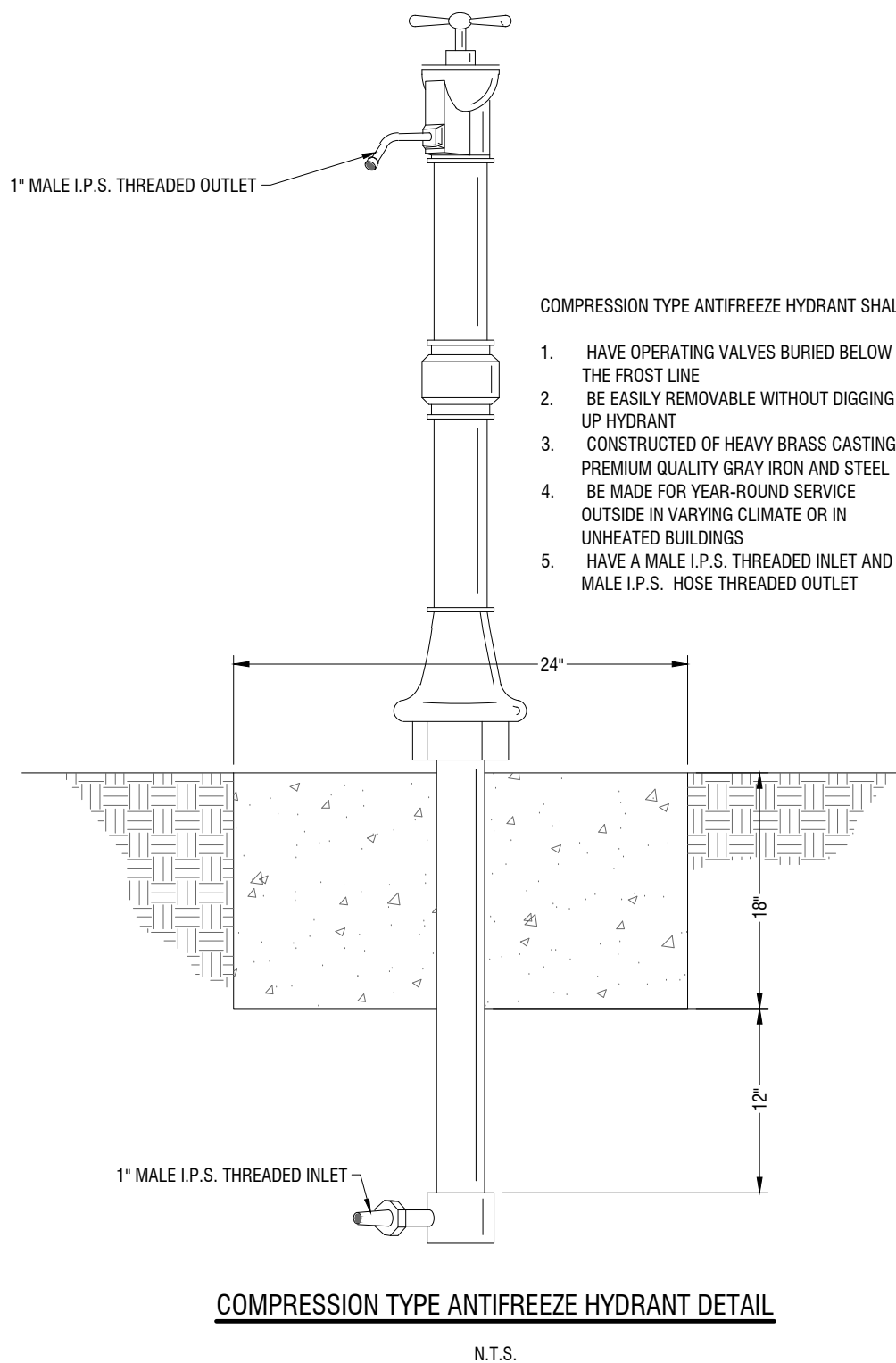
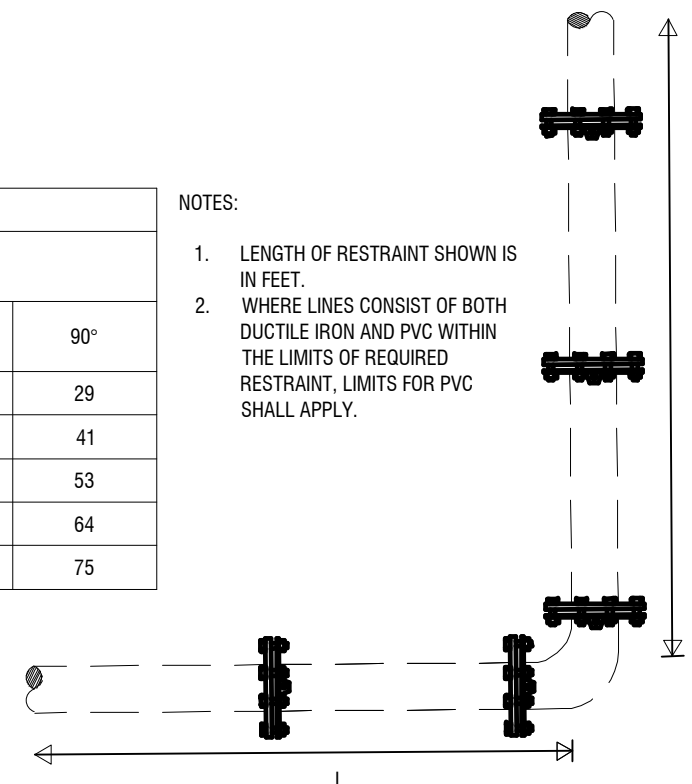
RESTRAINED JOINTS DETAILS
N.T.S.



TRACER WIRE AND DETECTABLE TAPE
INSTALLATION DETAIL FOR PVC PIPE
N.T.S.

REDUCER	DUCTILE IRON		PVC LINE	
	U	L	U	L
6X4	30	21	56	38
8X4	72	38	134	69
8X6	29	22	53	40
10X4	123	51	227	94
10X6	63	38	117	71
10X8	26	21	49	39
12X4	186	64	343	118
12X6	106	53	196	99
12X8	59	39	109	72
12X10	26	21	48	40
16X8	214	79		
16X8	141	68		
16X10	91	56		
16X12	54	40		
20X10	174	84		
20X12	123	71		
20X16	51	40		
24X12	207	97		
24X16	113	72		
24X20	48	39		

REDUCER RESTRAINT



COMPRESSION TYPE ANTIFREEZE HYDRANT DETAIL
N.T.S.

REVISIONS:

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4	DETAIL ADJUSTMENT

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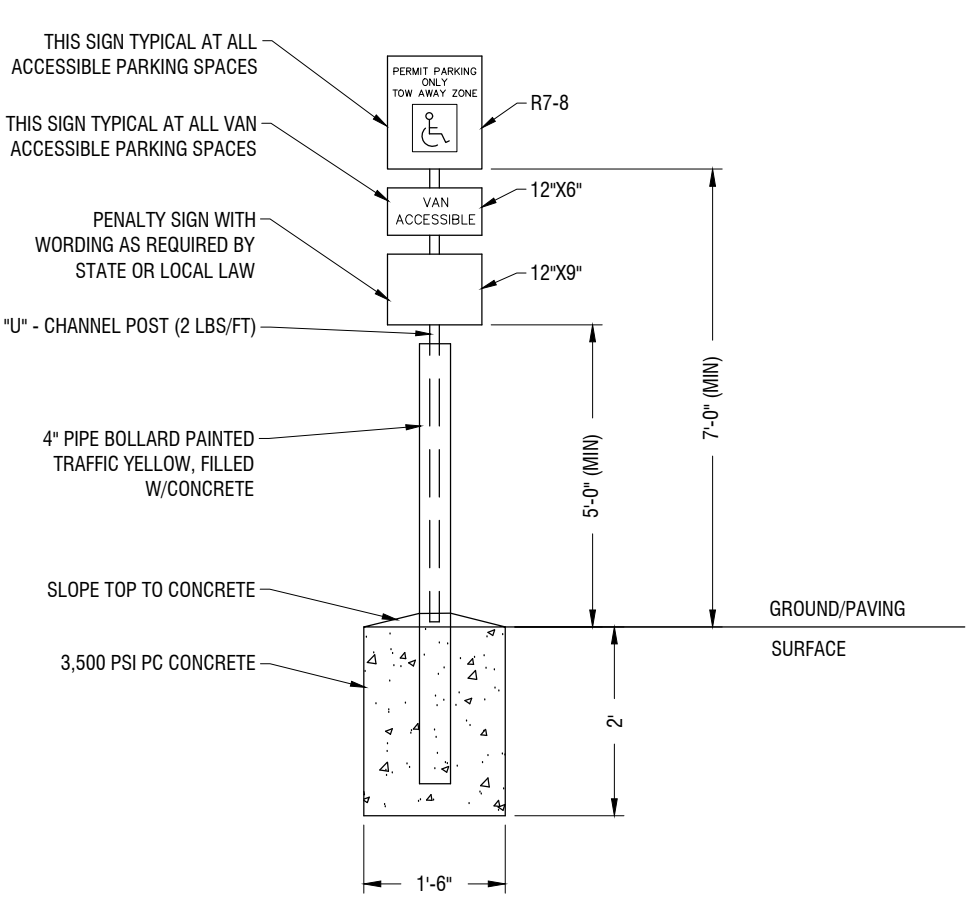
Water Pollution
Control Plant

GENERAL
DETAILS

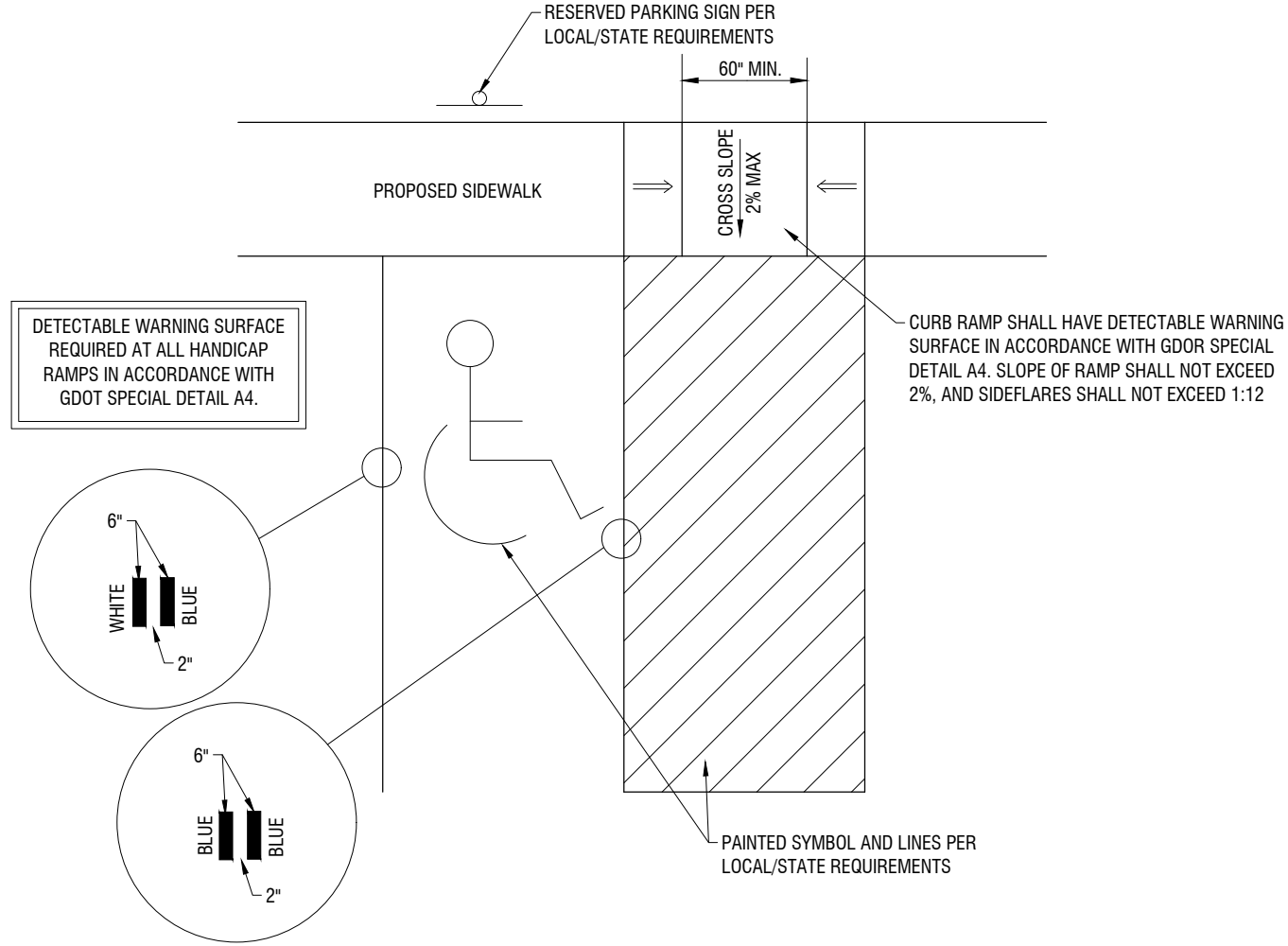
C14

FILE NO: 2013-36.1

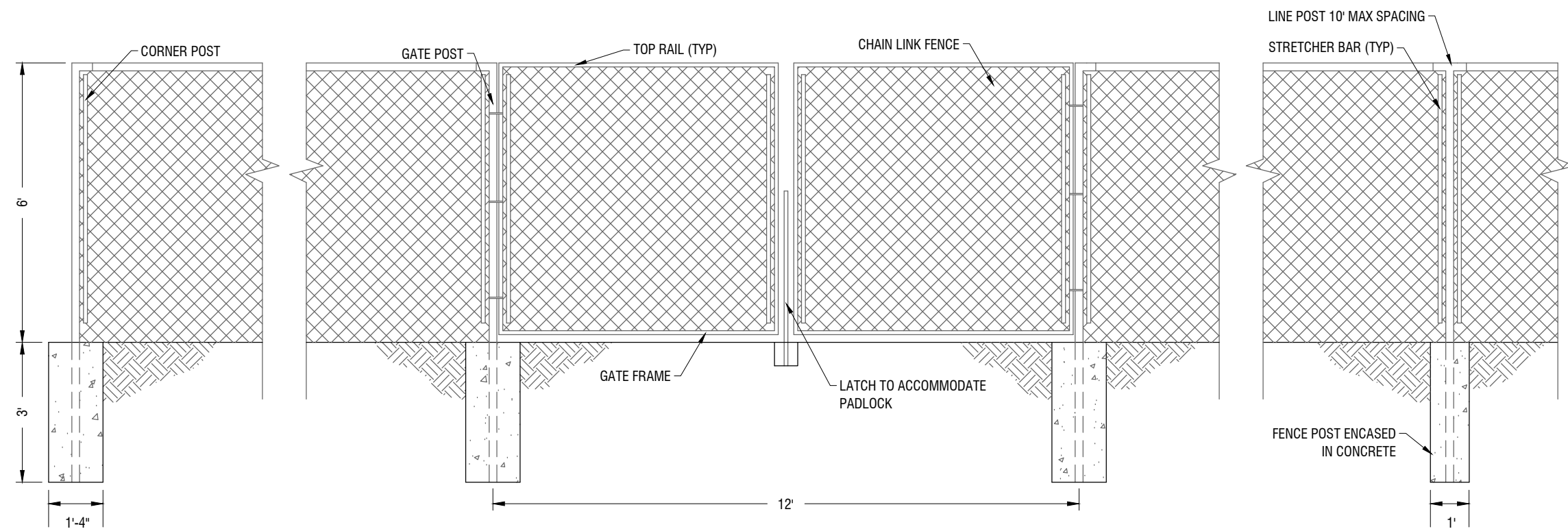
PLOT DATE: May 1, 2024



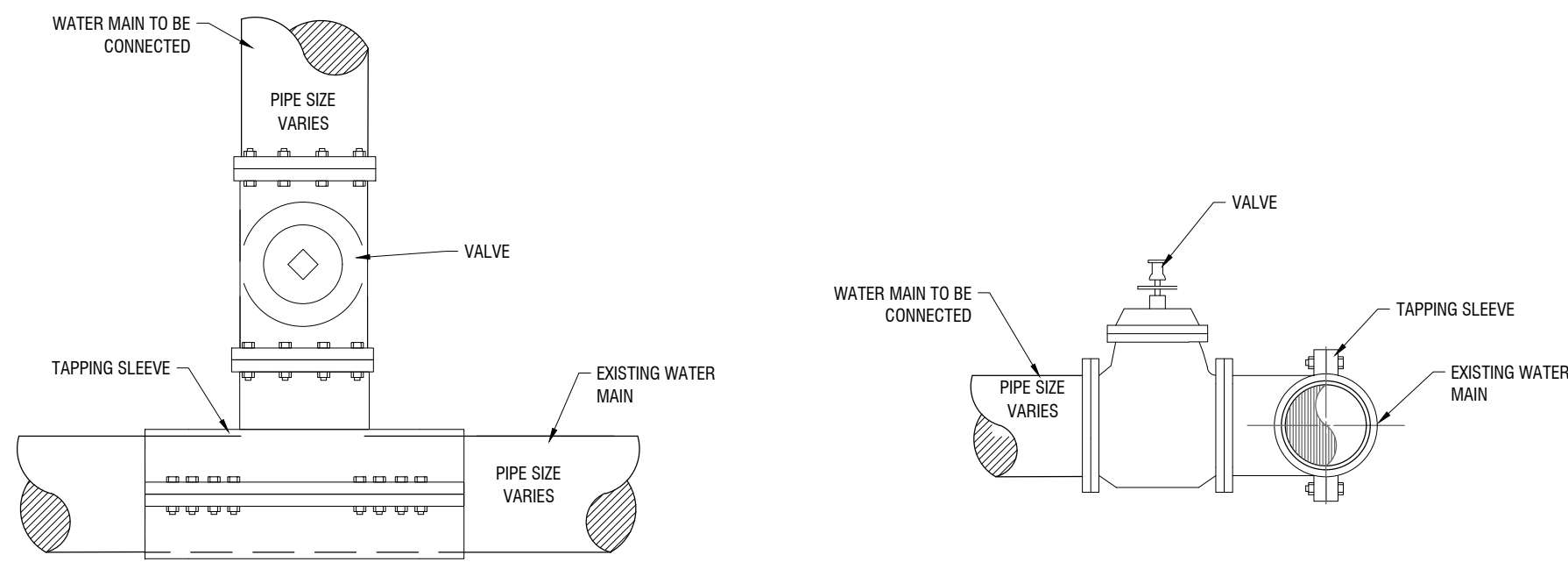
ACCESSIBLE PARKING SIGN
N.T.S.



HANDICAP PARKING AND RAMP DETAIL
N.T.S.

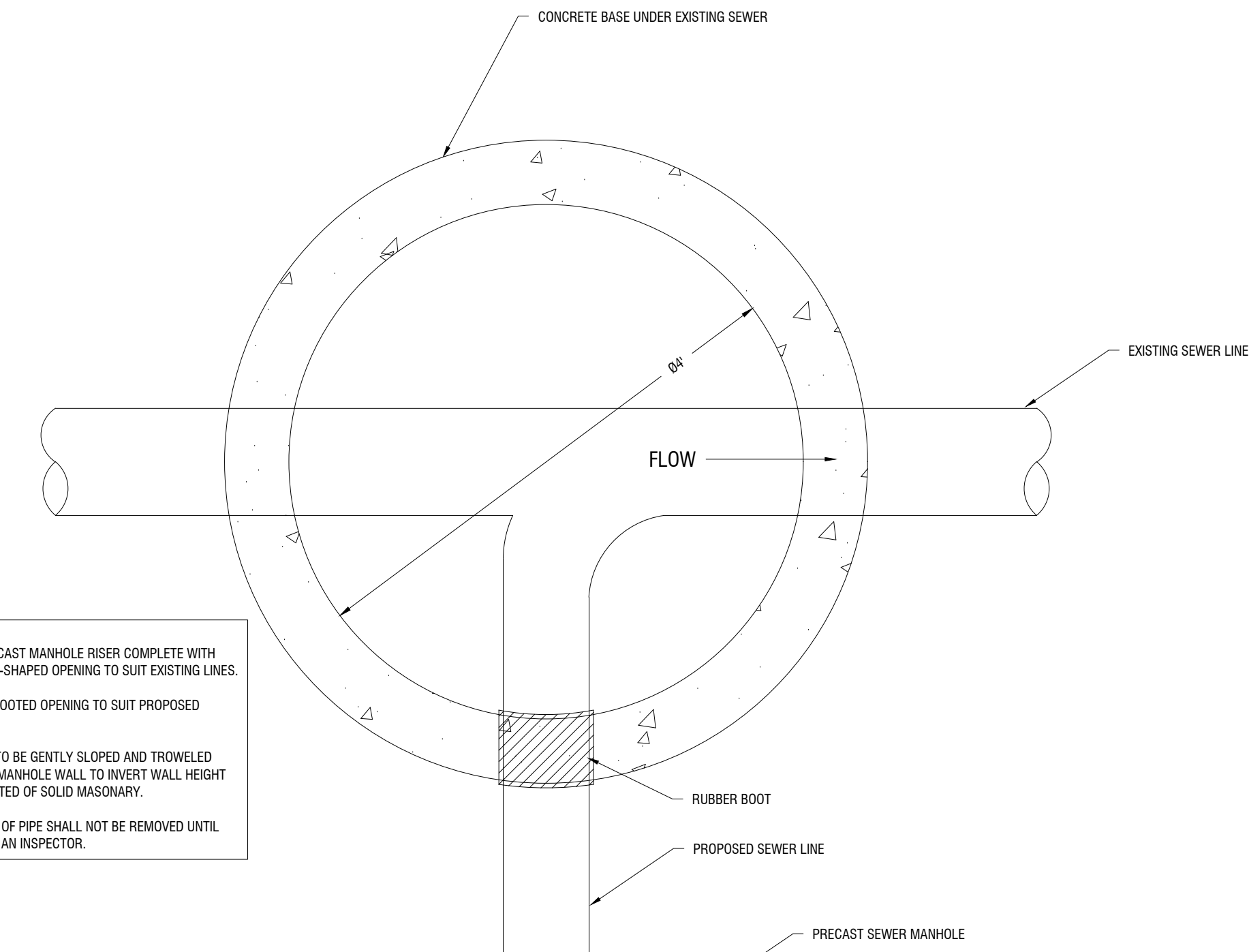


TYPICAL FENCE DETAIL
N.T.S.

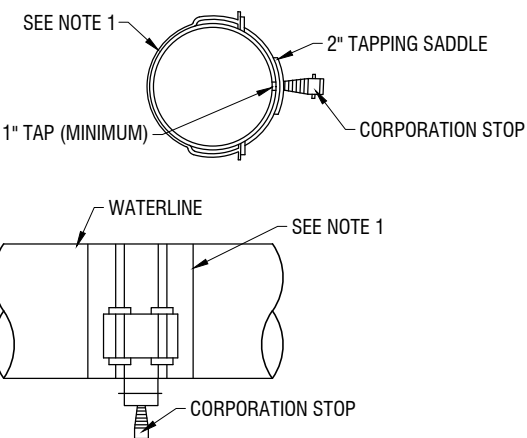
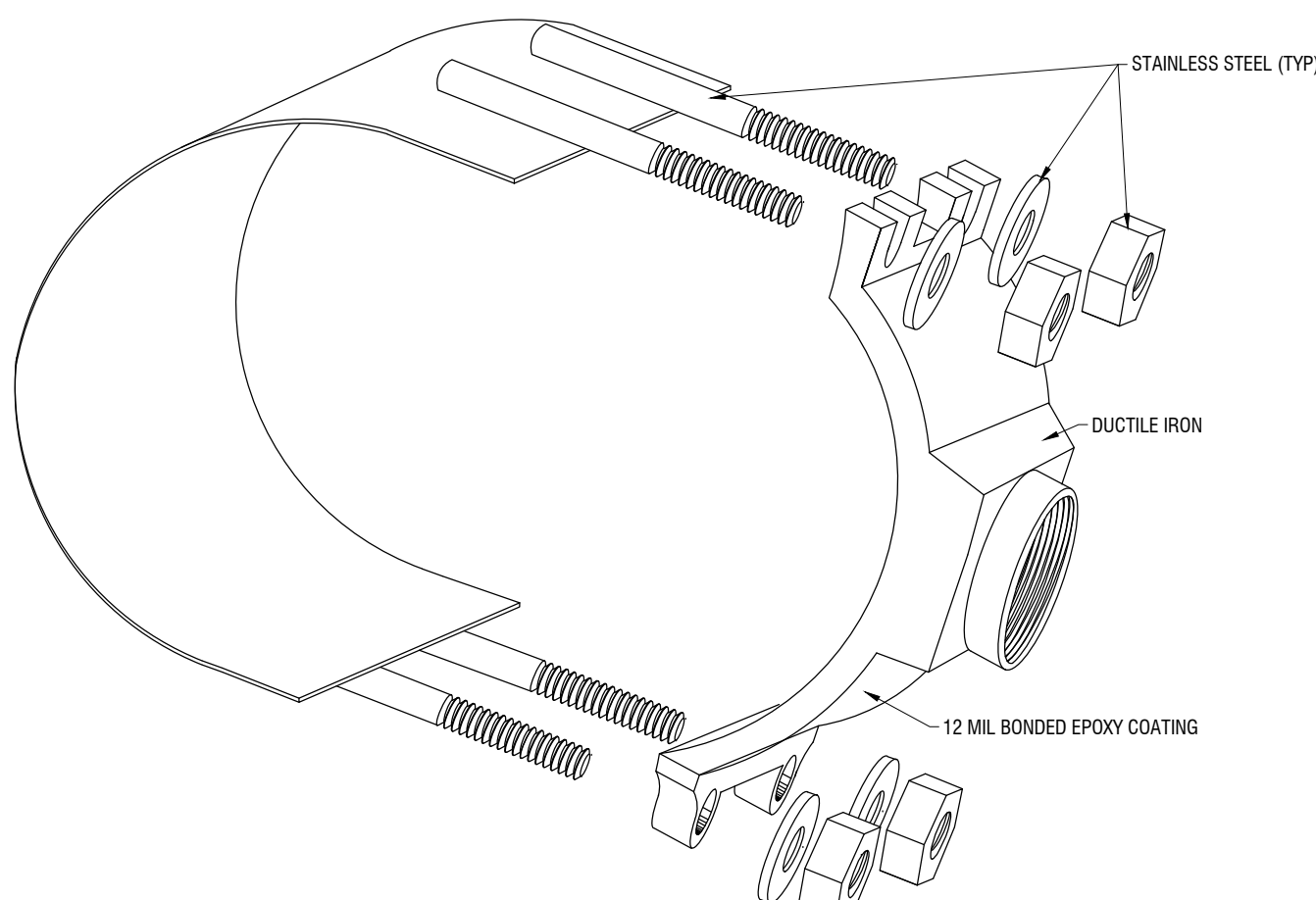


TAPPING SLEEVE FOR CONNECTION TO EXISTING WATER MAIN DETAIL
N.T.S.

- NOTES:
1. PROVIDE PRECAST MANHOLE RISER COMPLETE WITH UPSIDE DOWN U-SHAPED OPENING TO SUIT EXISTING LINES.
 2. CORED AND BOOTED OPENING TO SUIT PROPOSED PIPELINES.
 3. TABLES ARE TO BE GENTLY SLOPED AND TROWELED SMOOTH FROM MANHOLE WALL TO INVERT WALL HEIGHT AND CONSTRUCTED OF SOLID MASONRY.
 4. TOP PORTION OF PIPE SHALL NOT BE REMOVED UNTIL AUTHORIZED BY AN INSPECTOR.

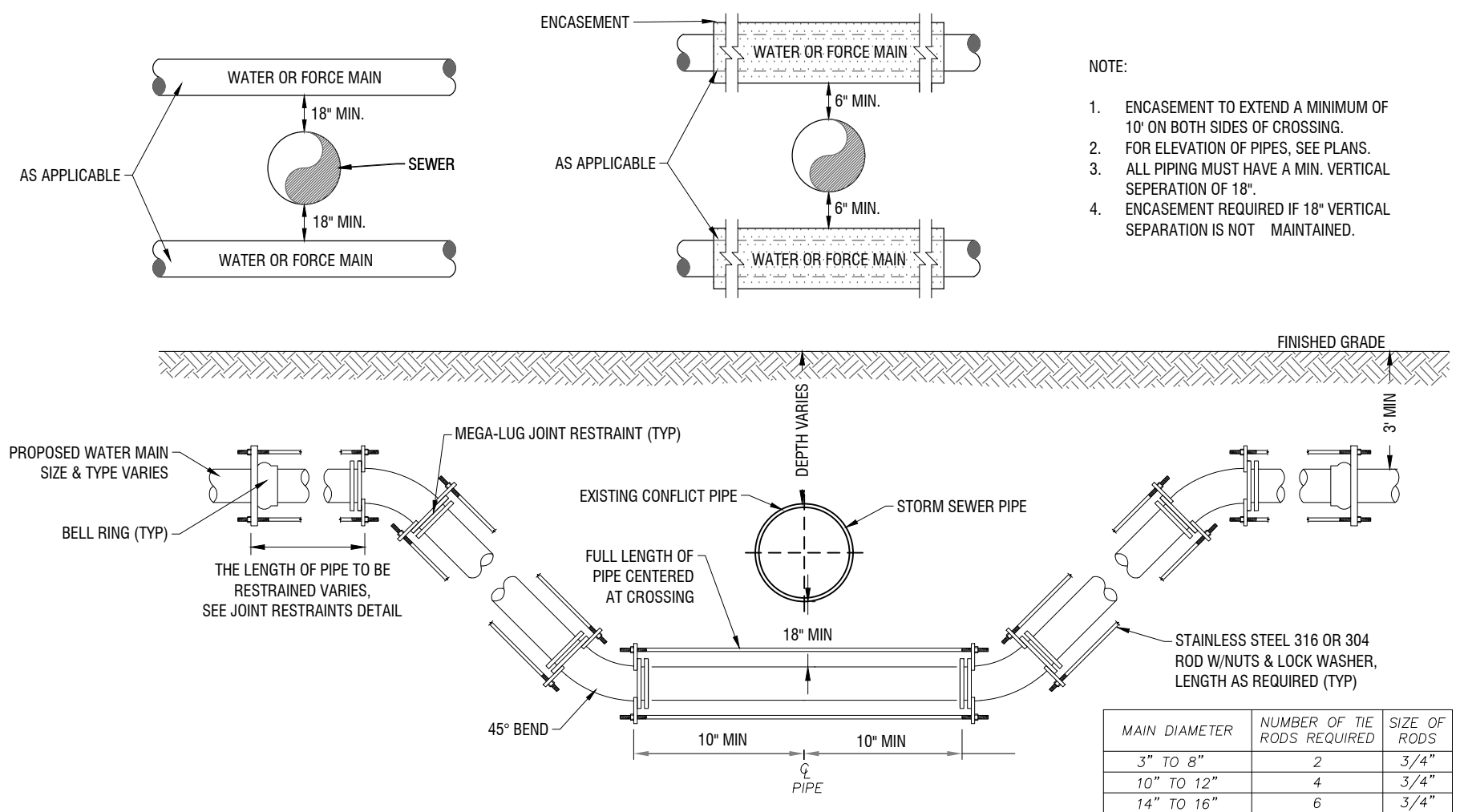


MANHOLE OVER EXISTING PIPE (DOGHOUSE)
N.T.S.



1\"/>

- NOTES:
1. TAPPING SADDLE TO BE DUCTILE IRON WITH TYPE 304 STAINLESS STEEL FORGED DOUBLE STRAPS, STAINLESS STEEL BOLTS, NUTS, AND WASHERS. FINISH IS FUSION BONDED EPOXY TO AVERAGE THICKNESS OF 12-MILS.
 2. ONE INCH (1\") TAPS ON WATER LINES SMALLER THAN SIX INCHES (6\") REQUIRE A TAPPING SADDLE. TWO INCH (2\") TAPS REQUIRE A TAPPING SADDLE, REGARDLESS OF WATER MAIN SIZE.
 3. A VALVE BOX SHALL BE USED FOR 2\" CORPORATION STOPS. INSTALL PER DETAIL W4.



UTILITY VERTICAL SEPERATION DETAIL
N.T.S.

GENERAL NOTES

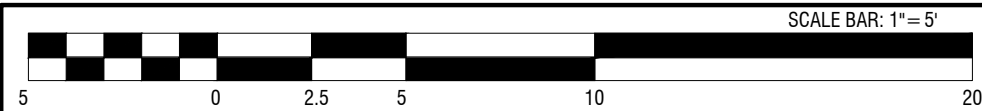
WATER MAINS AND WATER SERVICE LINES CROSSING HOUSE SEWERS, STORM SEWERS OR SANITARY SEWER SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF AT LEAST 24\"/>

WHEN LOCAL CONDITIONS PREVENT A VERTICAL SEPARATION OF 24\", THE SEWER PASSING OVER OR UNDER WATER MAINS SHALL BE CONSTRUCTED OF MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION EXTENDING ON EACH SIDE OF THE CROSSING UNTIL AT LEAST 10' SEPARATES THE TWO PIPES AND SHALL BE PRESSURE TESTED TO ASSURE WATER-TIGHTNESS PRIOR TO BACKFILLING. THE LENGTH OF WATER PIPE MUST BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER.

ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING THE WATER MAINS.

IN CASE THAT A SEWER LATERAL PASSES ABOVE WATER MAIN, THE SEWER LATERAL MUST BE ENCASED IN A CARRIER PIPE CONSTRUCTED OF WATER MAIN MATERIALS, EXTENDING EACH SIDE OF THE CROSSING UNTIL AT LEAST 10 FEET SEPARATES THE TWO PIPES.

WATER SERVICE LINES SHOULD GO OVER ANY SANITARY SEWER LINE AND MAINTAIN THE 24\"/>



REVISIONS:	
1	GSWCC COMMENTS
2	UPDATE TO MEOW NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

DRAWING COMPLETED BY: OSCAR GARCIA

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GEORGIA REGISTERED PROFESSIONAL ENGINEER
MARCUS E. SACK
DATE: May 1, 2024

M.E. SACK ENGINEERING

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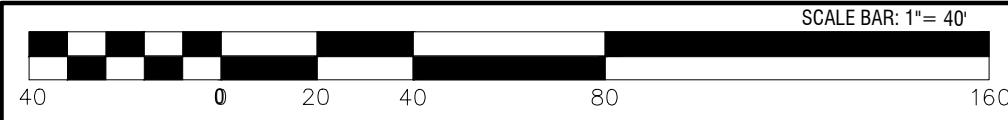
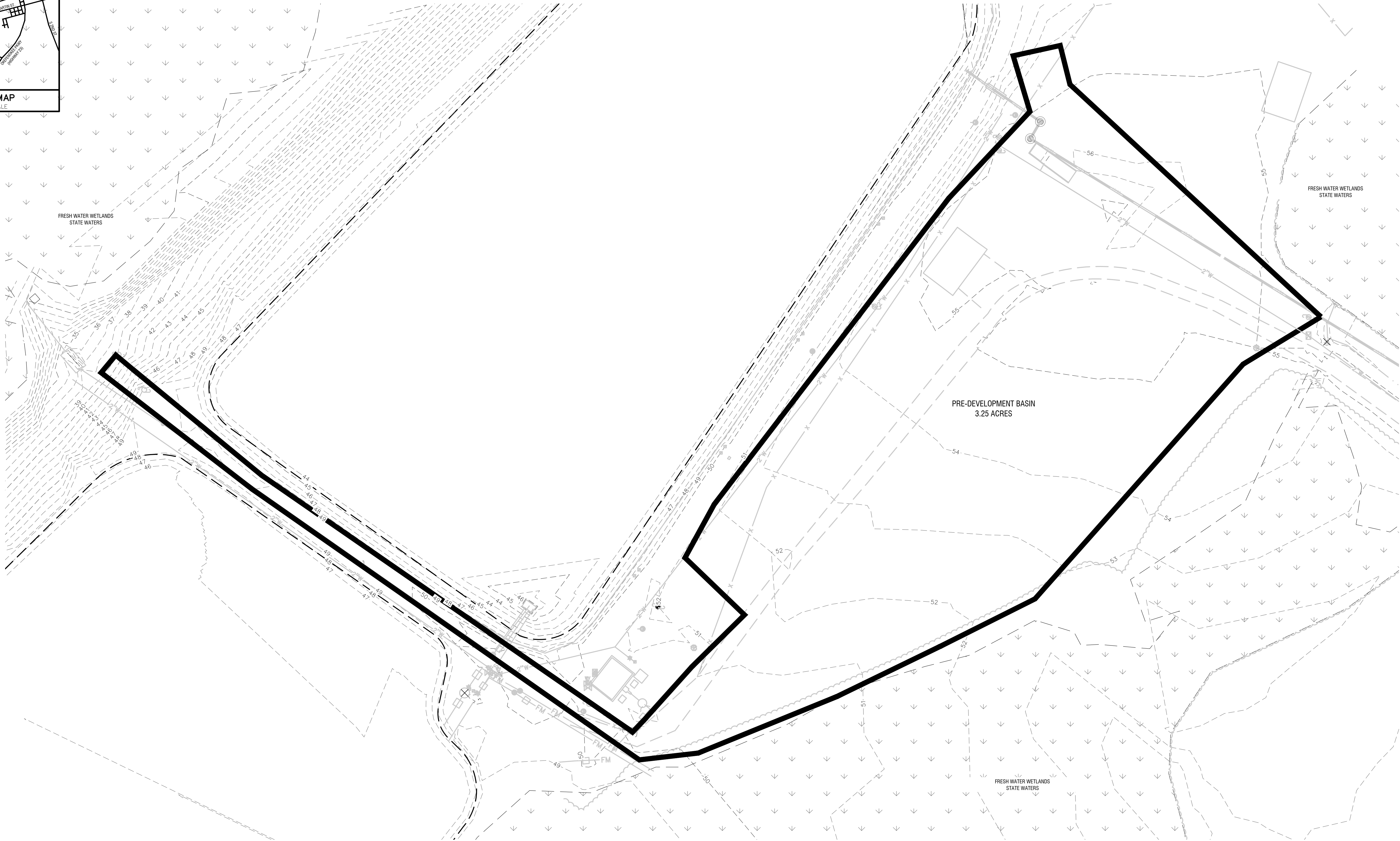
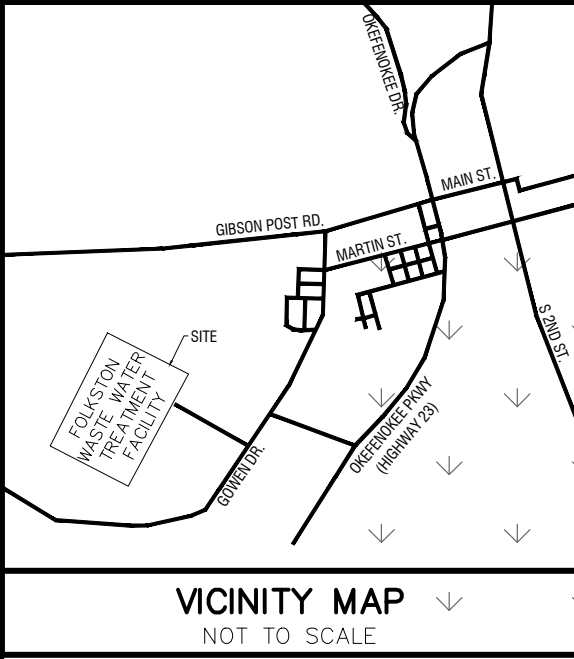
Water Pollution Control Plant

GENERAL DETAILS

C15

FILE NO: 2013-36.1

PLOT DATE: May 1, 2024



REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEEW NEW WLA
3	GSWCC COMMENTS
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DATE: May 1, 2024

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1980

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24 HOUR CONTACT:

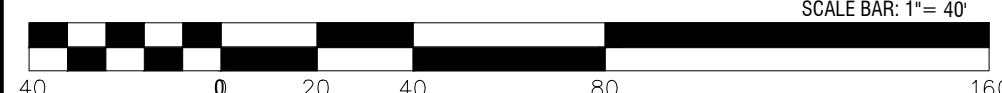
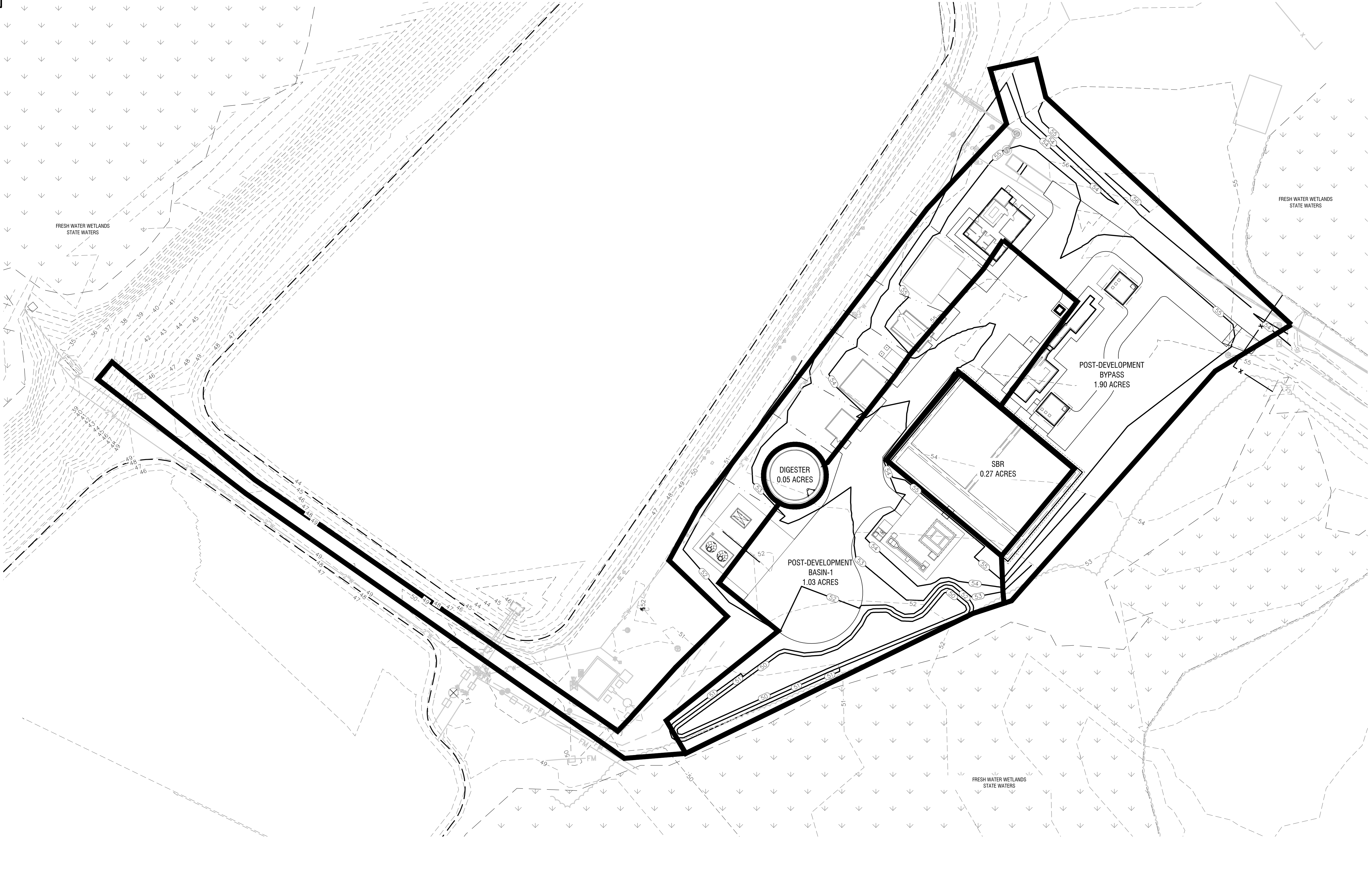
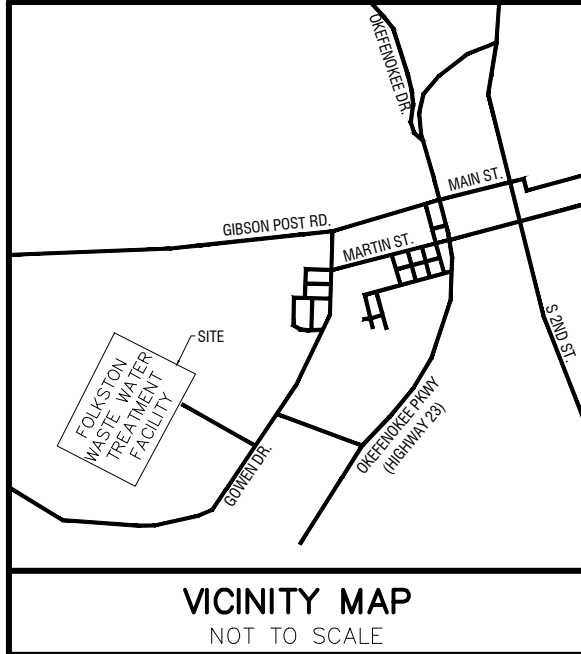
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Water Pollution
Control Plant

PRE
DEVELOPMENT
BASIN

C16

FILE NO: 2013-36.1
PLOT DATE: May 1, 2024



REVISIONS:

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2	UPDATE TO MEEW NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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GEORGIA
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Professional
ENGINEER
MARCUS E. SACK
DATE: May 1, 2024

19
M.E. SACK
ENGINEERING
80

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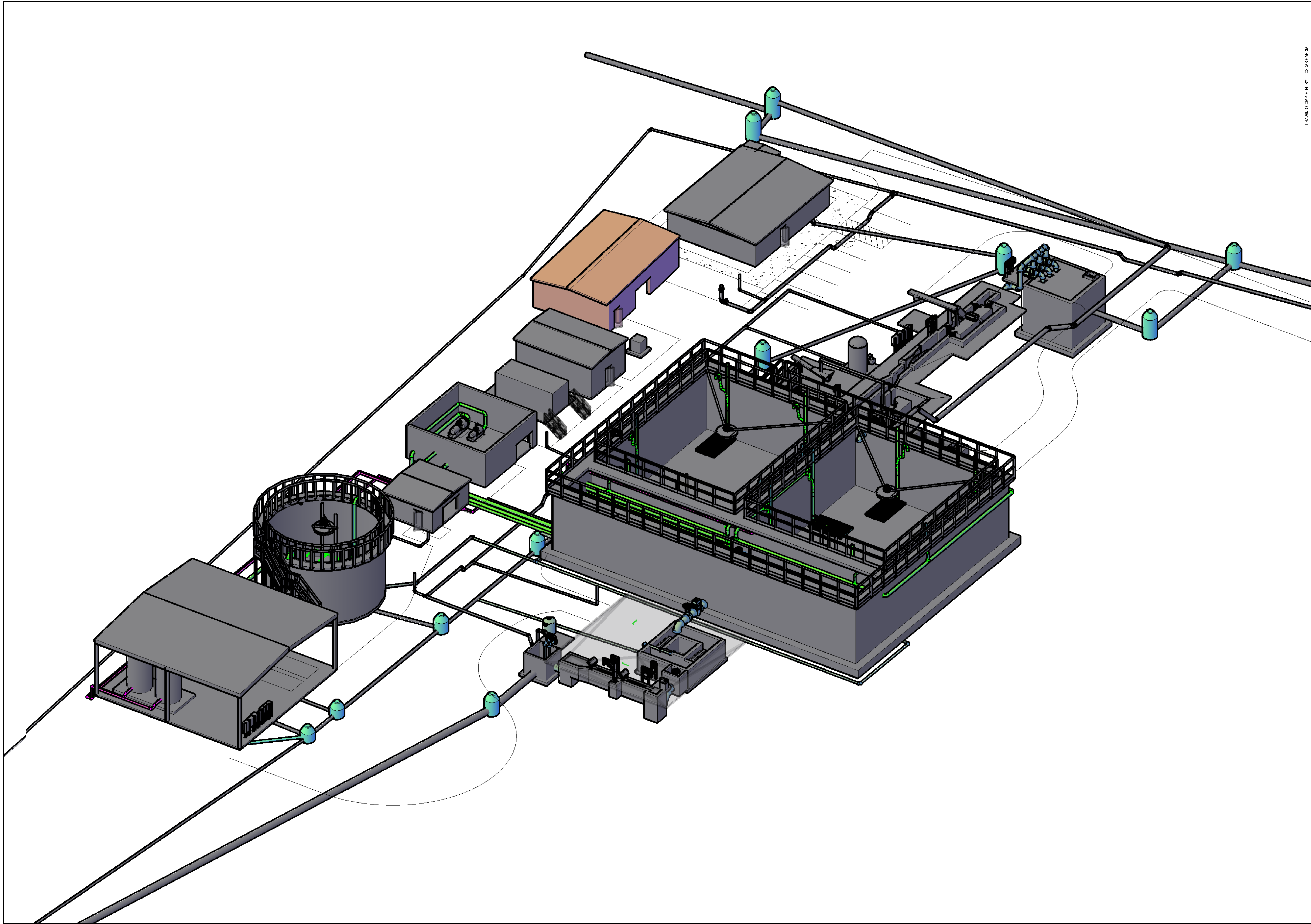
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Water Pollution
Control Plant

POST
DEVELOPMENT
BASIN

C17

FILE NO: 2013-36.1
PLOT DATE: May 1, 2024



REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEEN NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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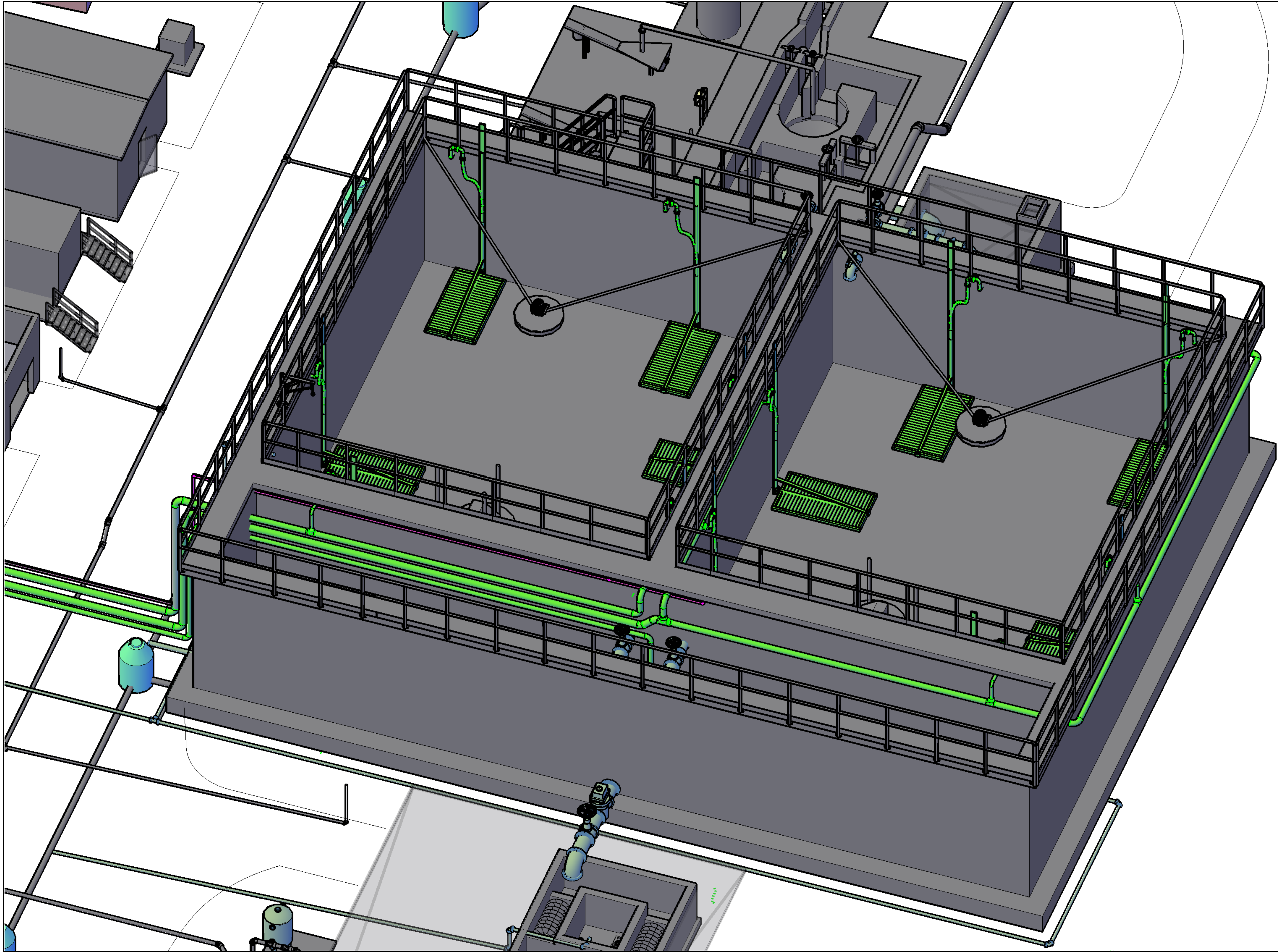
Water Pollution
Control Plant

OVERALL SITE
ISOMETRIC
VIEW

M1

FILE NO: 2013-36.1

PLOT DATE: May 1, 2024



REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEEN NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

DRAWING COMPLETED BY: OSCAR GARCIA

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GEORGIA REGISTERED PROFESSIONAL ENGINEER MARCUSE E. SACK

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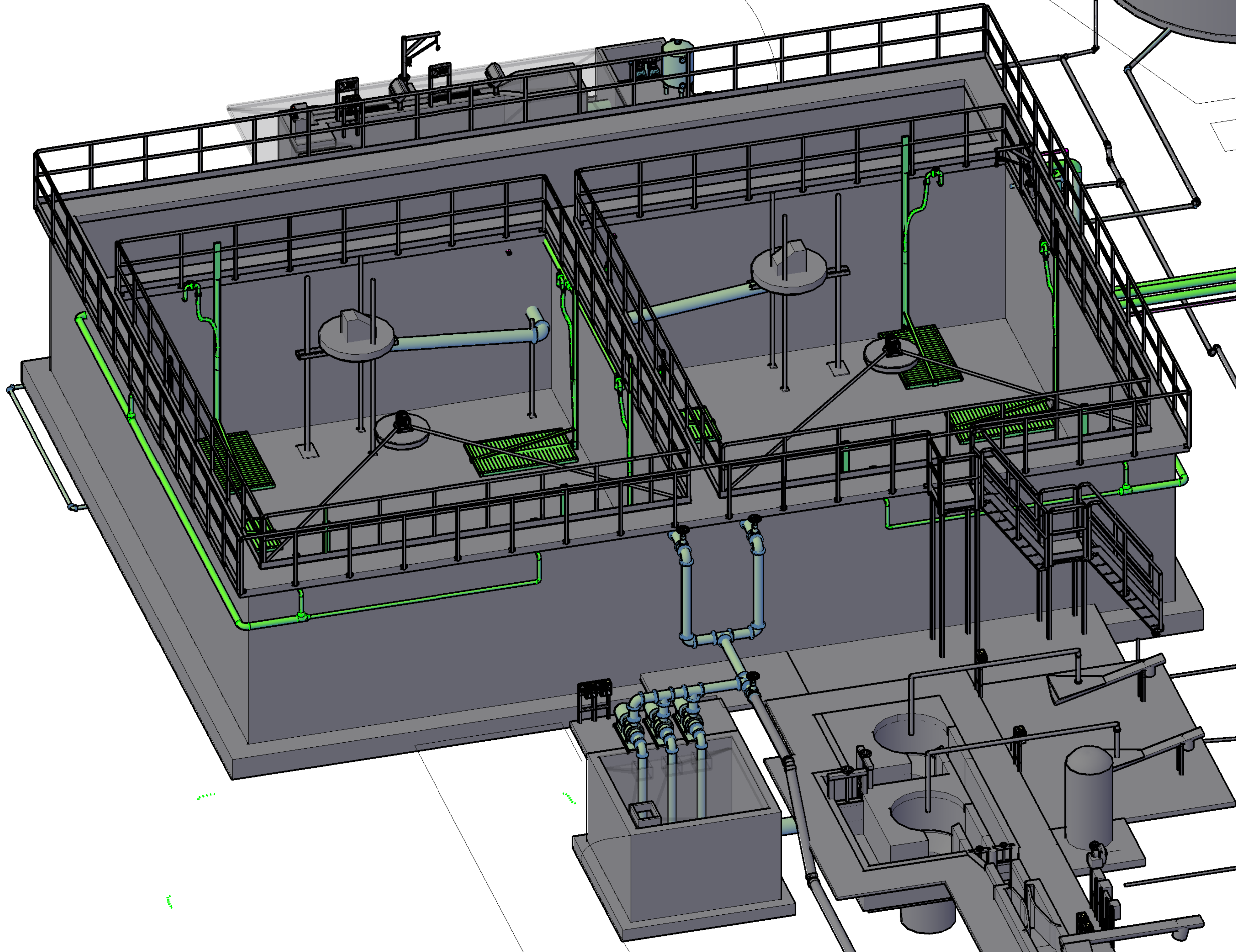
Water Pollution Control Plant



SBR ISOMETRIC VIEW 1

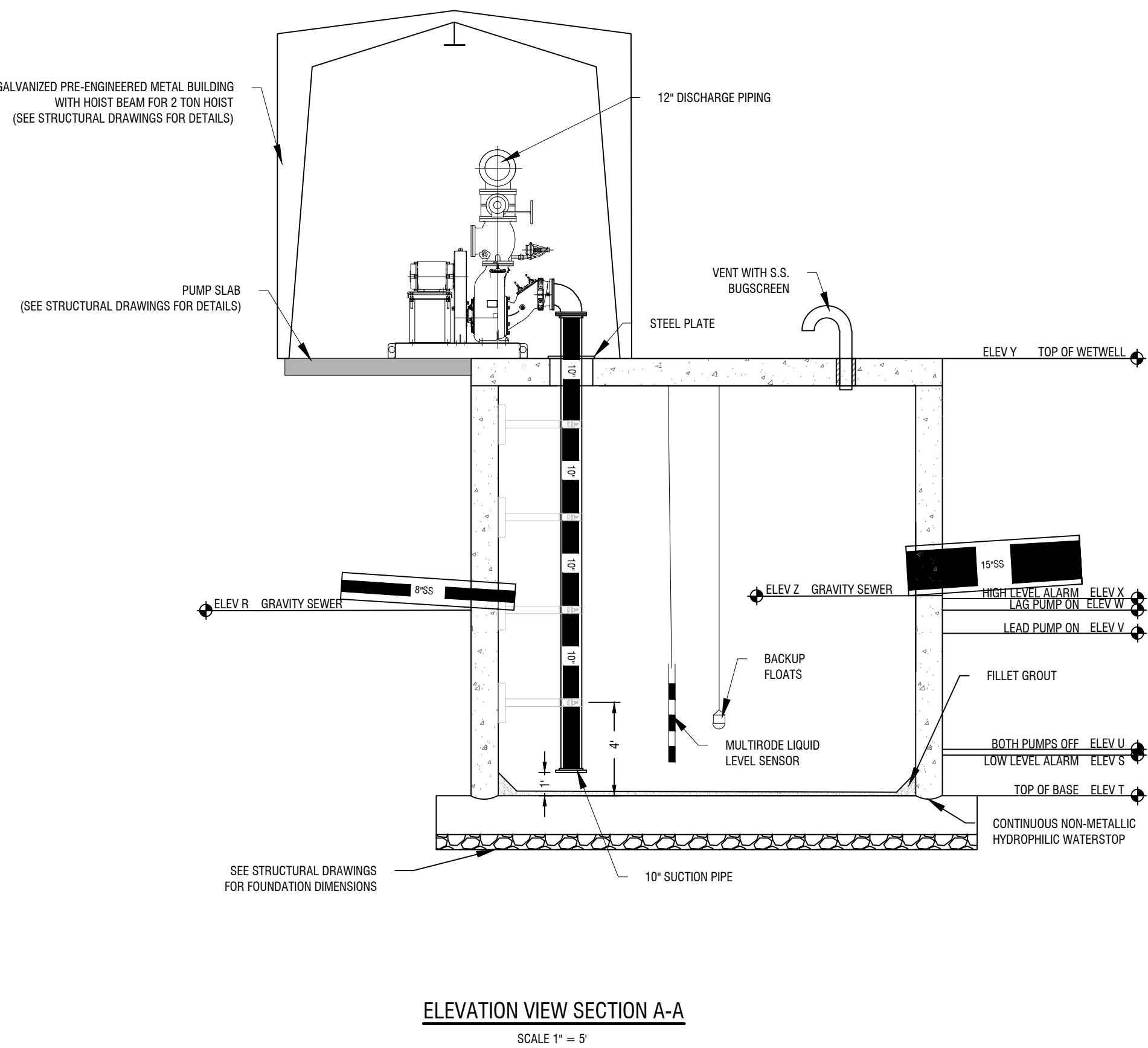
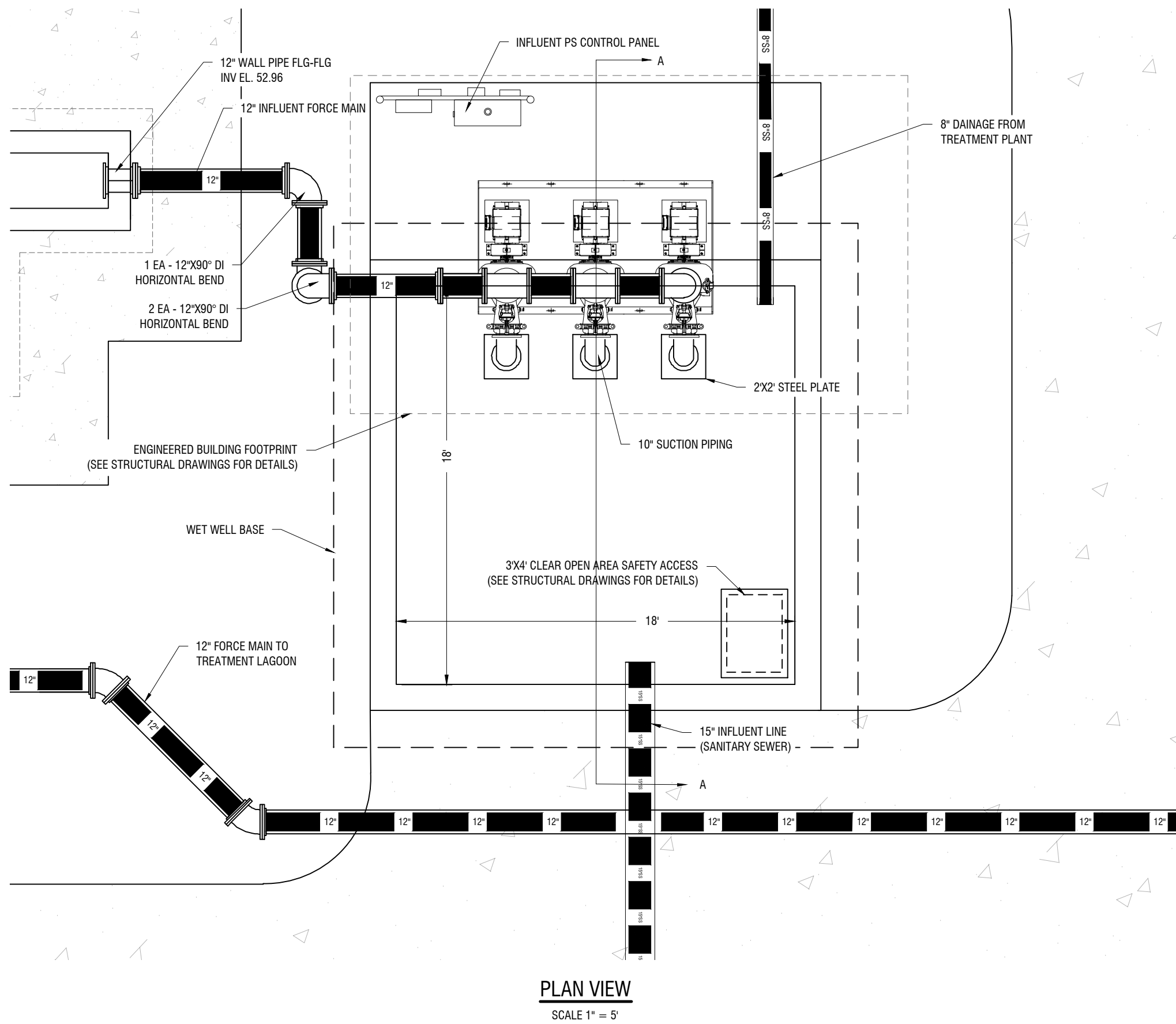
M2

FILE NO: 2013-36.1

PLOT DATE: May 1, 2024



REVISIONS:	
1	GSWCC COMMENTS
2	UPDATE TO MEEN NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT
DRAWING PREPARED BY: OSCAR GARCIA	
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Water Pollution Control Plant	
SBR ISOMETRIC VIEW 2	
M3	
FILE NO: 2013-36.1	
PLOT DATE: May 1, 2024	

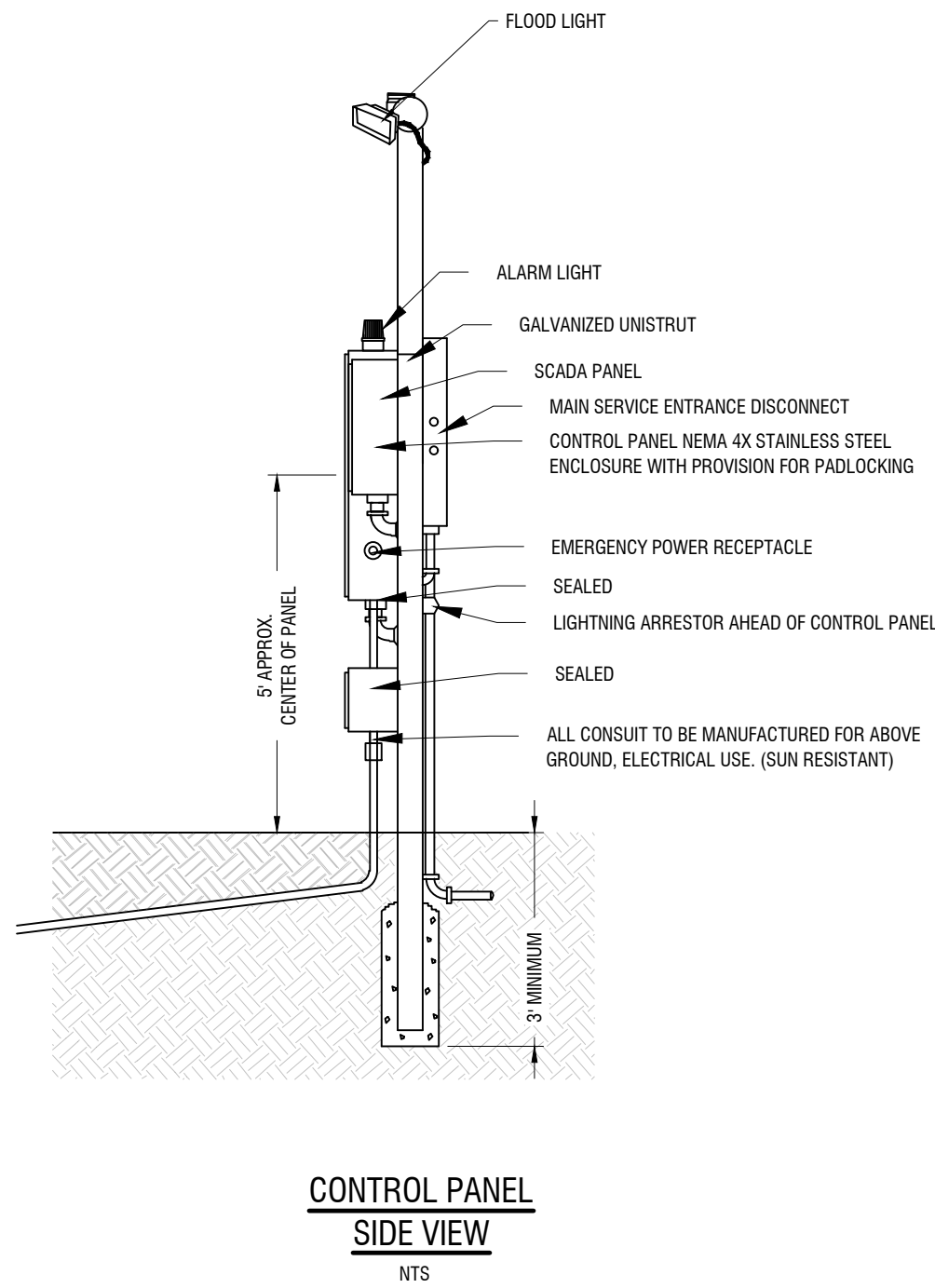
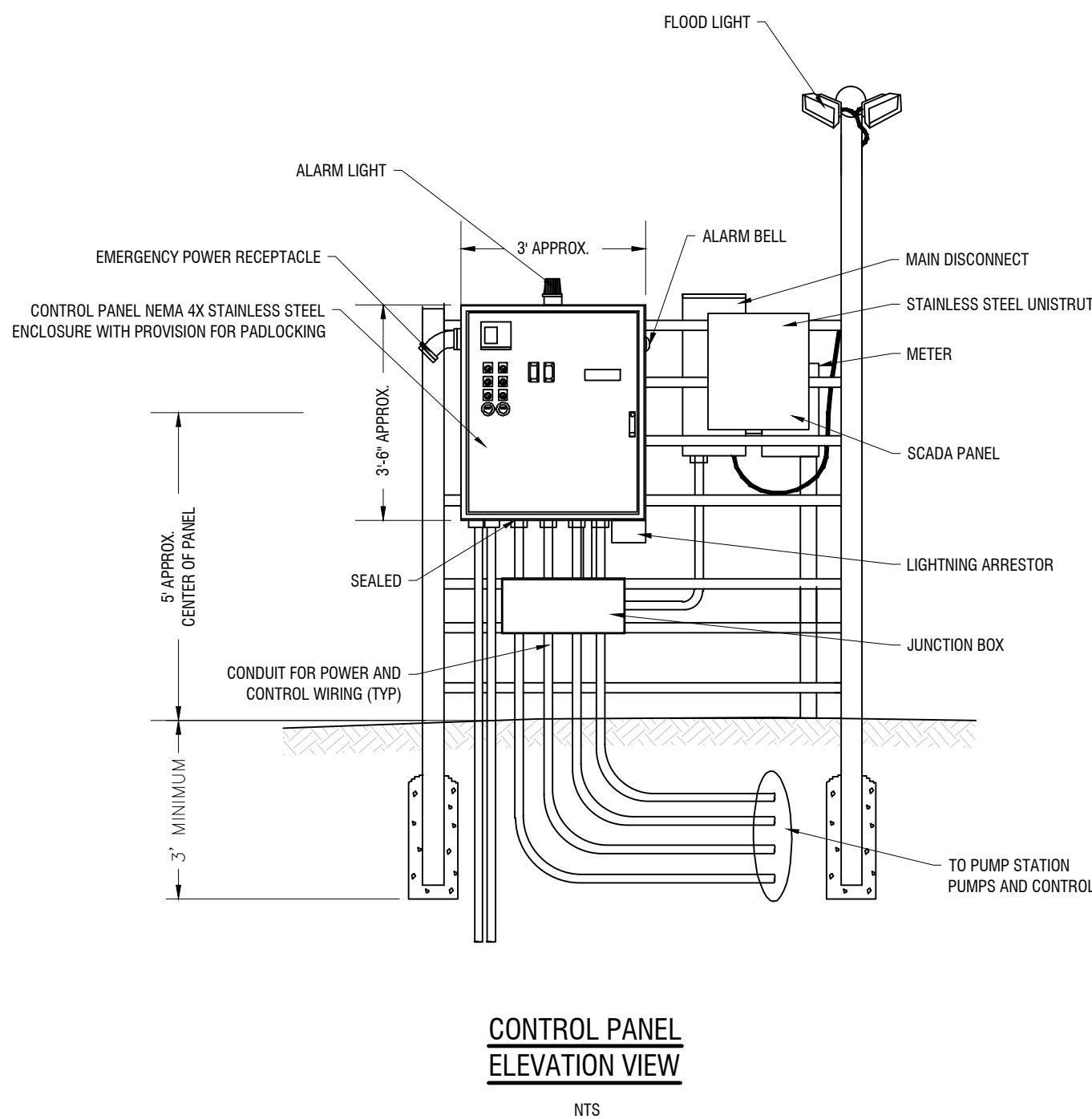


LIFT STATION DATA	
PUMPING STATIONS	ELEV AT CONST
ELEV R	45.15
ELEV S	38.90
ELEV T	37.15
ELEV U	39.15
ELEV V	44.15
ELEV W	45.15
ELEV X	45.65
ELEV Y	56.00
ELEV Z	45.78

GENERAL NOTES:

- PUMPS SHALL MEET ALL REQUIREMENTS IN ACCORDANCE WITH THE SPECIFICATIONS.
- WET WELL SHALL BE COATED INSIDE WITH PVC LINER OR LINED IN PLACE IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL SHALL BE MADE WATER AND GAS TIGHT WITH WALL SLEEVE OR NON-SHRINK GROUT.
- WET WELL SHALL BE HEAVY DUTY ALUMINUM WITH TORSION BAR ASSIST, POSITIVE LOCK AT 90 AND SAFETY GRATE, COVERS SHALL ALSO HAVE PADLOCKING CAPABILITIES (LOADING 300 PSF)
- ELECTRICAL CONDUIT SIZE SHALL BE LARGE ENOUGH TO ALLOW FOR PERIODIC REMOVAL AND REPLACEMENT OF CABLES.
- CABLE HANGERS SHALL BE STAINLESS STEEL.
- REFERENCE STRUCTURAL DRAWINGS FOR ALL STRUCTURAL DIMENSIONS AND DETAILS.

- DUTY POINTS**
- 1063 GPM @ 32' TDH
 - 2125 GPM @ 33' TDH
 - 4250 GPM @ 34' TDH



REVISIONS:

1	GSWCC COMMENTS
2	UPDATE TO MEEW NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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GEORGIA
REGISTERED
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MARCUS E. SACK
DATE: May 1, 2024

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ENGINEERING
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Water Pollution
Control Plant

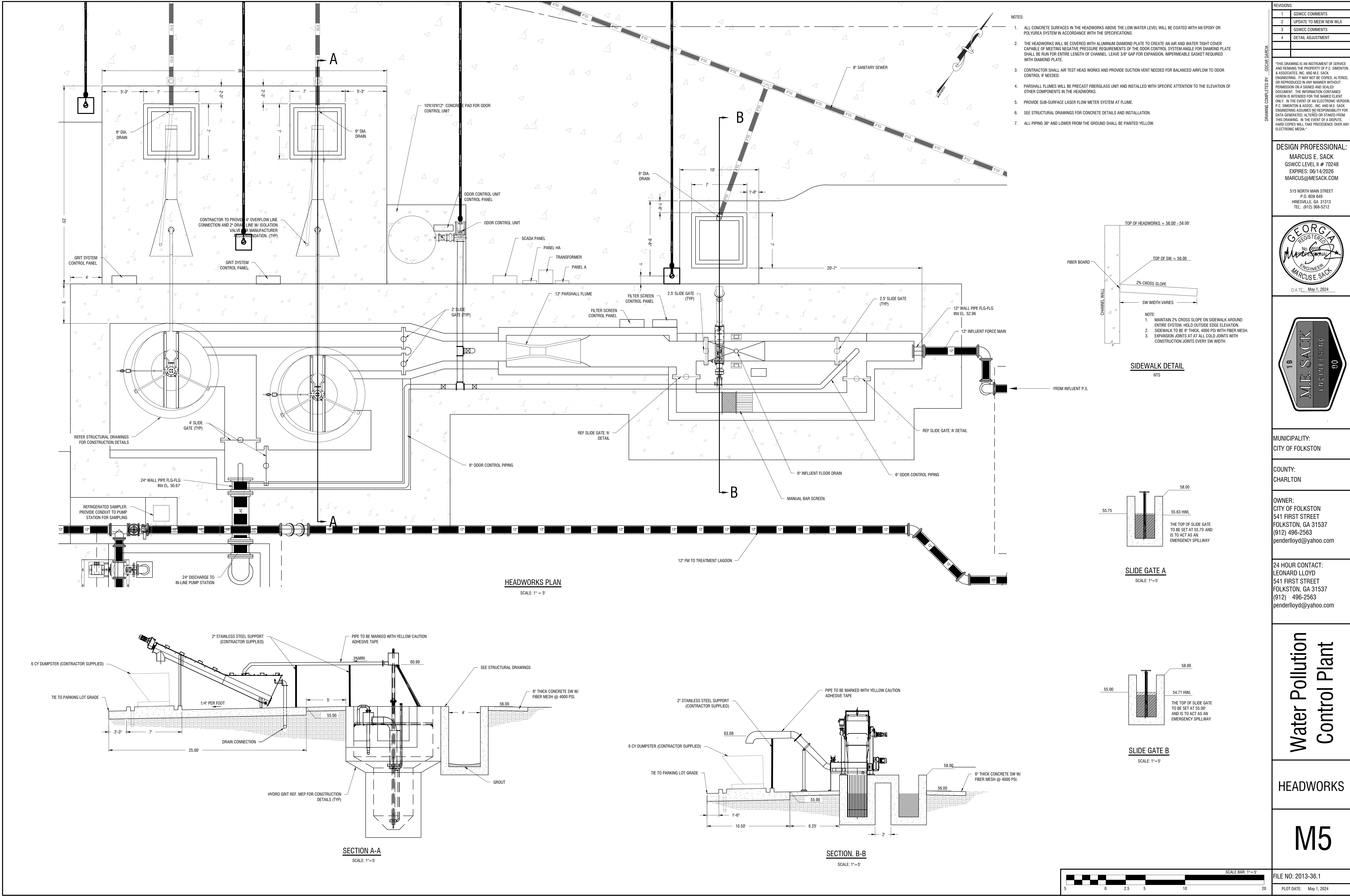
INFLUENT
PUMP STATION

M4

FILE NO: 2013-36.1

PLOT DATE: May 1, 2024

DRAWING COMPLETED BY: CSACK, GARCIA





PUMPING STATIONS	ELEV AT CONST
ELEV S	44.25
ELEV T	42.50
ELEV U	44.50
ELEV V	49.50
ELEV W	50.50
ELEV X	51.00
ELEV Y	56.00
ELEV Z	50.50

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- DUTY POINTS**
- 1063 GPM @ 38' TDH
 - 2125 GPM @ 38' TDH
 - 4250 GPM @ 40' TDH

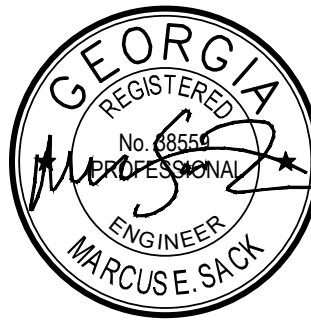


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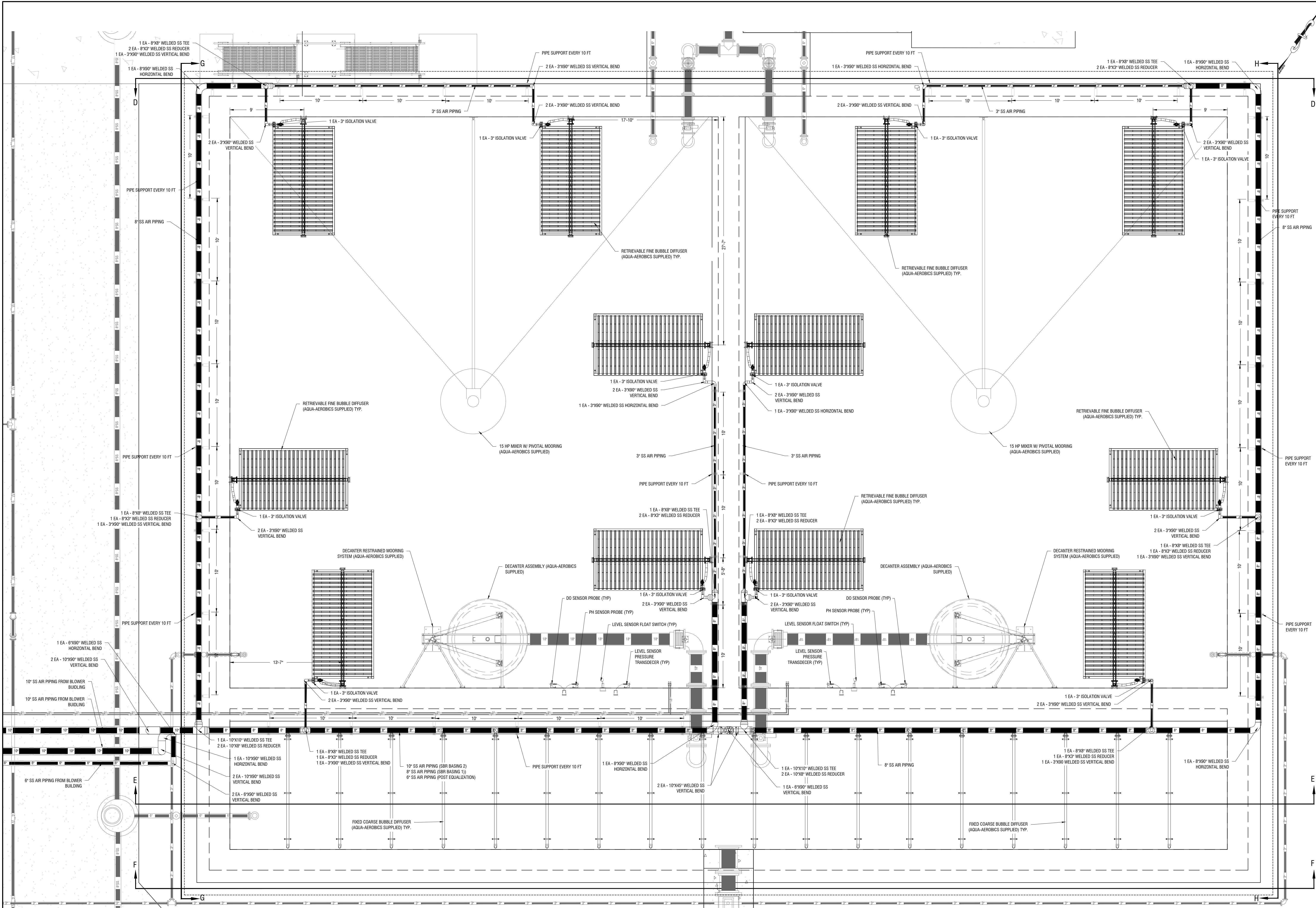
Water Pollution Control Plant

INLINE PUMP STATION

M6

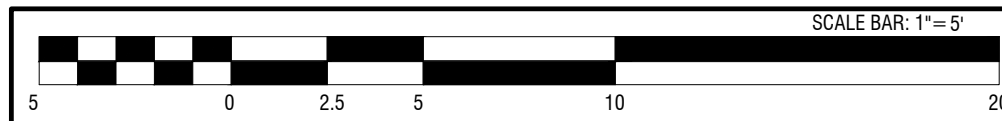
FILE NO: 2013-36.1



PLOT DATE: May 1, 2024

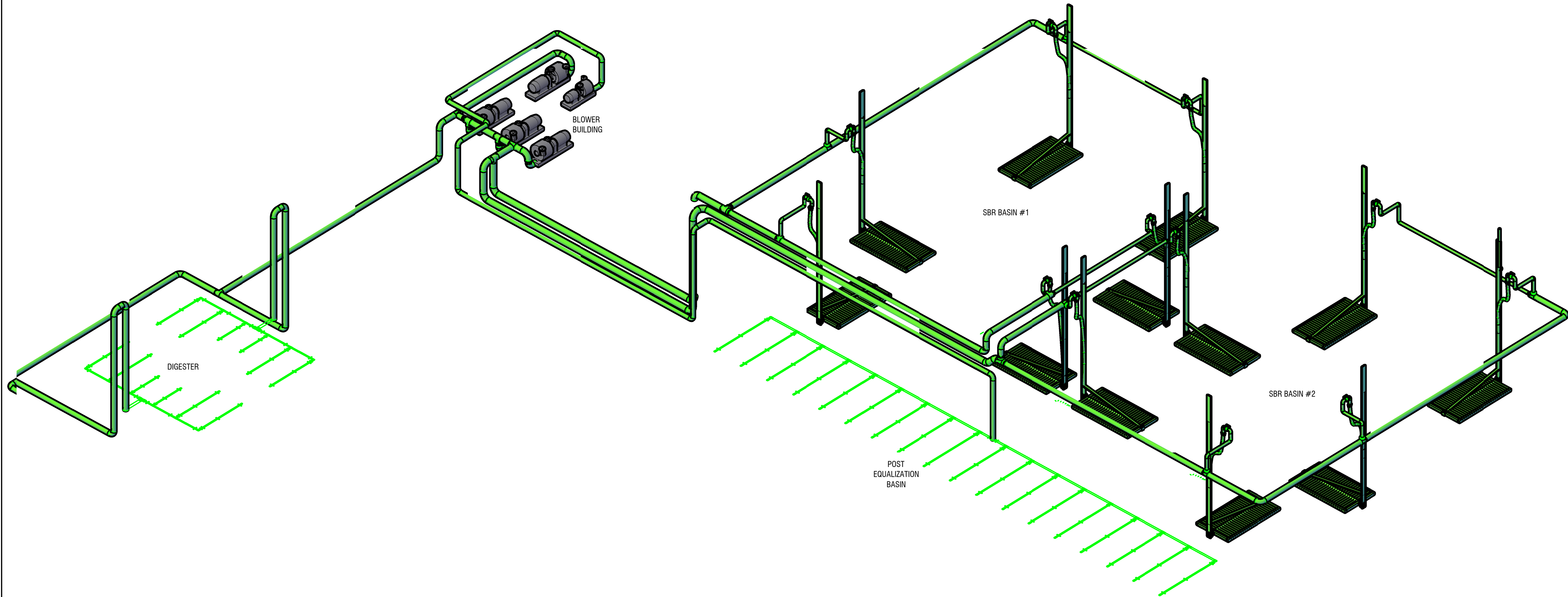


SBR AIR PLAN

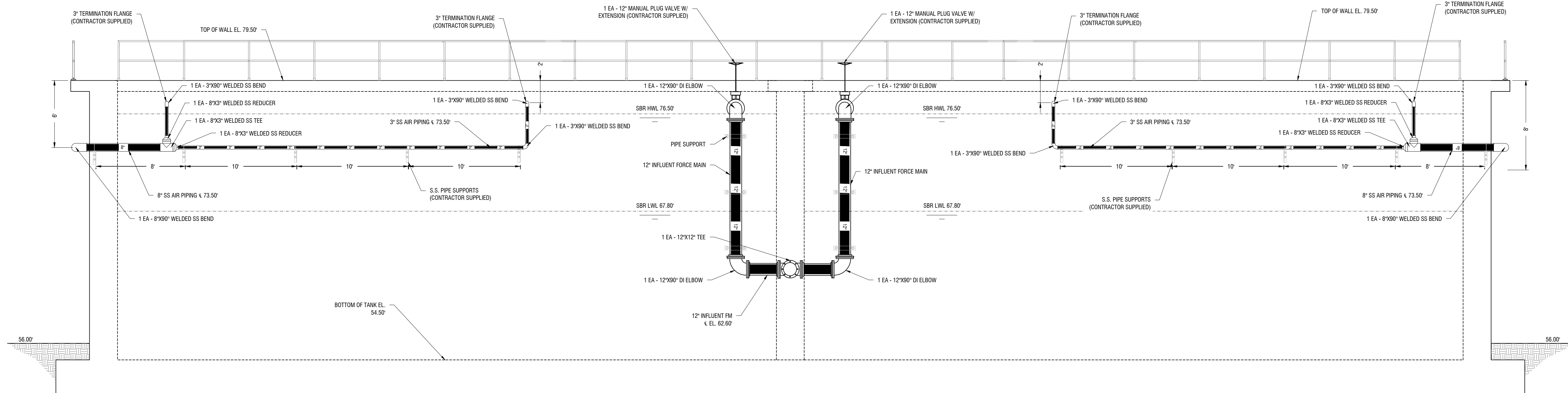
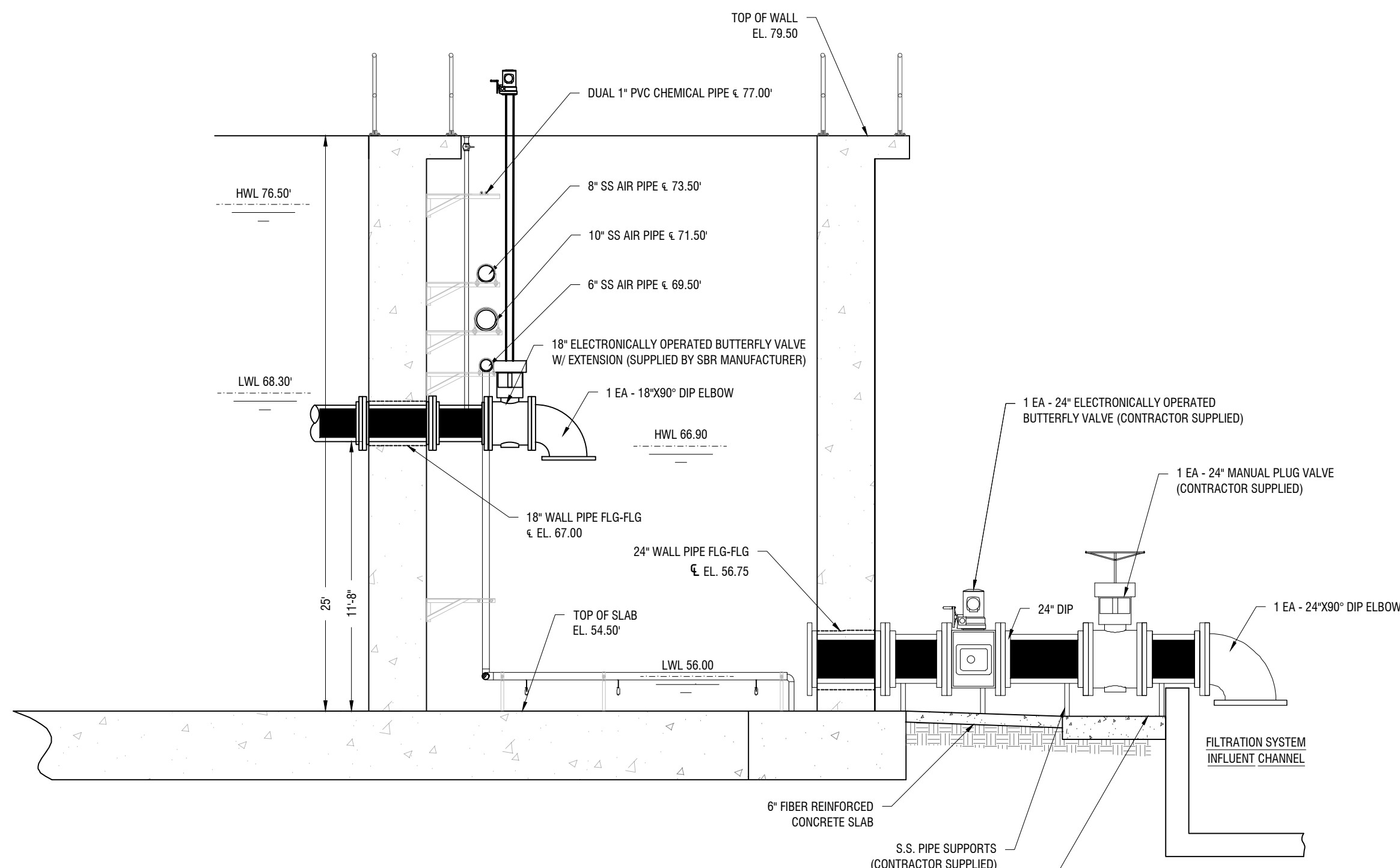
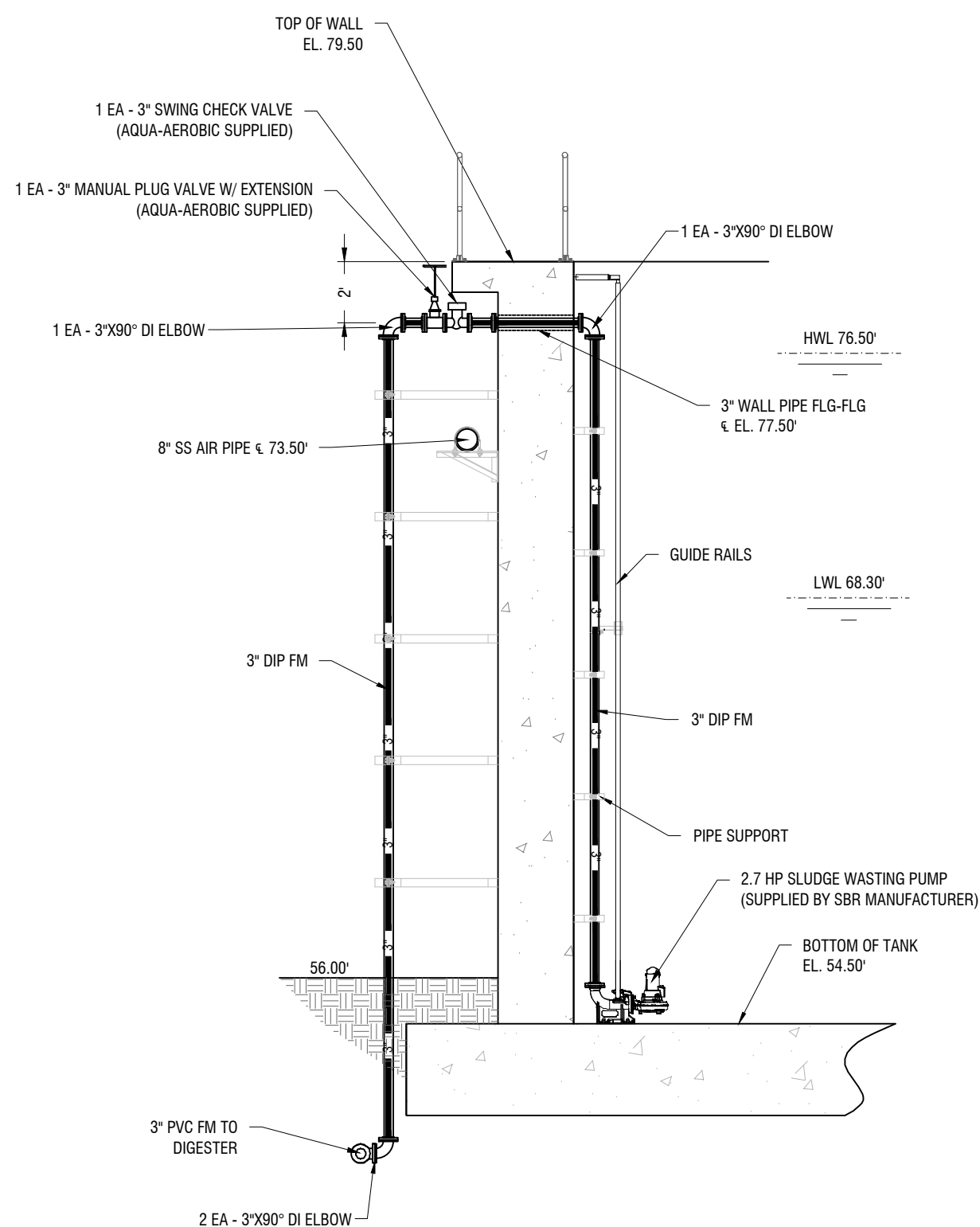
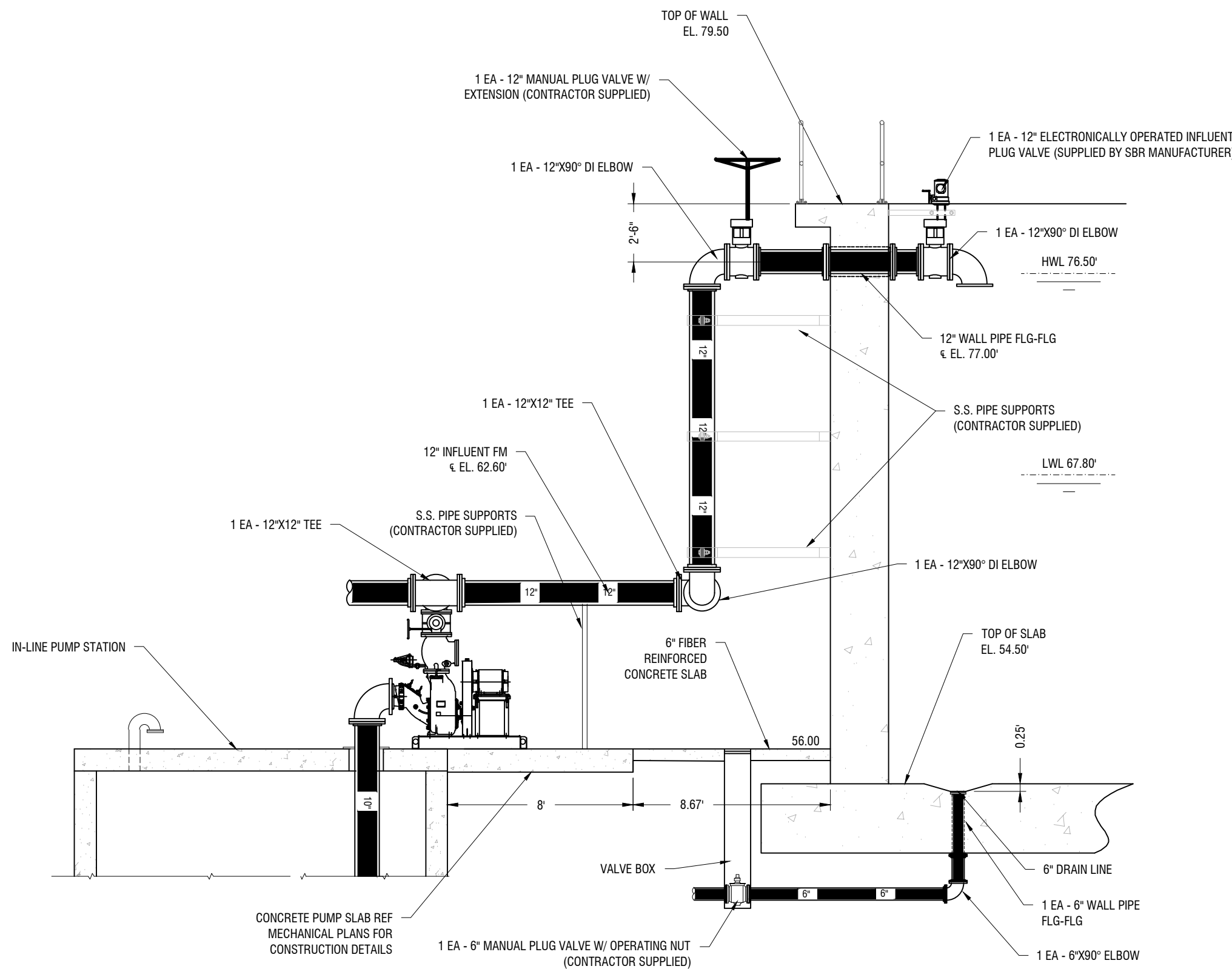
SCALE: 1" = 5'



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Water Pollution Control Plant	
SBR AIR PIPING PLAN	
M8	
FILE NO: 2013-36.1	
PLOT DATE: May 1, 2024	

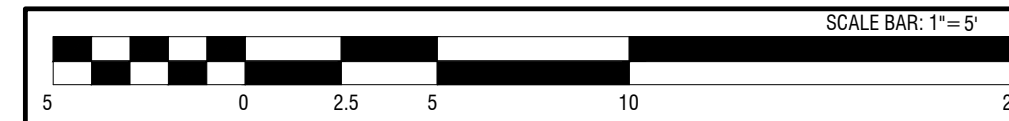


REVISIONS:	
1	GSWCC COMMENTS
2	UPDATE TO MEEN NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT
DRAWING COMPLETED BY: JESSIE GORDA	
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MUNICIPALITY: CITY OF FOLKSTON	
COUNTY: CHARLTON	
OWNER: CITY OF FOLKSTON 541 FIRST STREET FOLKSTON, GA 31537 (912) 496-2563 penderlloyd@yahoo.com	
24 HOUR CONTACT: LEONARD LLOYD 541 FIRST STREET FOLKSTON, GA 31537 (912) 496-2563 penderlloyd@yahoo.com	
Water Pollution Control Plant	
AIR PIPING ISOMETRIC	
M9	
FILE NO: 2013-36.1	
PLOT DATE: May 1, 2024	

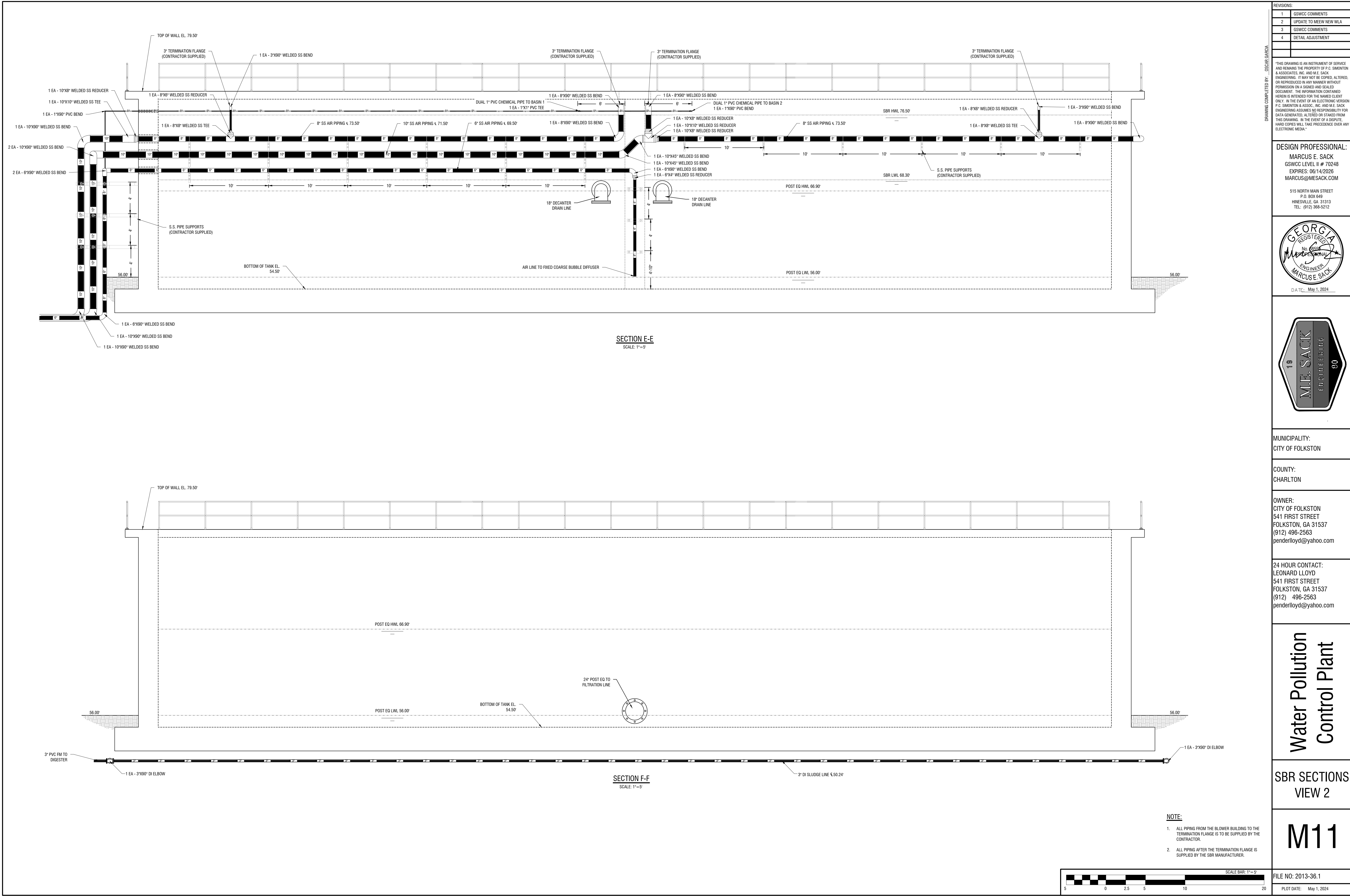


NOTE:

- ALL PIPING FROM THE BLOWER BUILDING TO THE TERMINATION FLANGE IS TO BE SUPPLIED BY THE CONTRACTOR.
- ALL PIPING AFTER THE TERMINATION FLANGE IS SUPPLIED BY THE SBR MANUFACTURER.



REVISIONS:	
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2	UPDATE TO MEEN NEW WLA
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<p>GEORGIA REGISTERED PROFESSIONAL ENGINEER MARCUS E. SACK DATE: May 1, 2024</p>	
<p>MUNICIPALITY: CITY OF FOLKSTON</p>	
<p>COUNTY: CHARLTON</p>	
<p>OWNER: CITY OF FOLKSTON 541 FIRST STREET FOLKSTON, GA 31537 (912) 496-2563 penderloyd@yahoo.com</p>	
<p>24 HOUR CONTACT: LEONARD LLOYD 541 FIRST STREET FOLKSTON, GA 31537 (912) 496-2563 penderloyd@yahoo.com</p>	
<p>Water Pollution Control Plant</p>	
<p>SBR SECTION VIEW 1</p>	
<p>M10</p>	
<p>FILE NO: 2013-36.1 PLOT DATE: May 1, 2024</p>	



REVISIONS:

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TEL: (912) 368-5212

GEORGIA
REGISTERED
ENGINEER
MARCUS E. SACK

DATE: May 1, 2024

19
M.E. SACK
ENGINEERING
80

MUNICIPALITY:

CITY OF FOLKSTON

COUNTY:

CHARLTON

OWNER:

CITY OF FOLKSTON
541 FIRST STREET
FOLKSTON, GA 31537
(912) 496-2563
penderlloyd@yahoo.com

24 HOUR CONTACT:

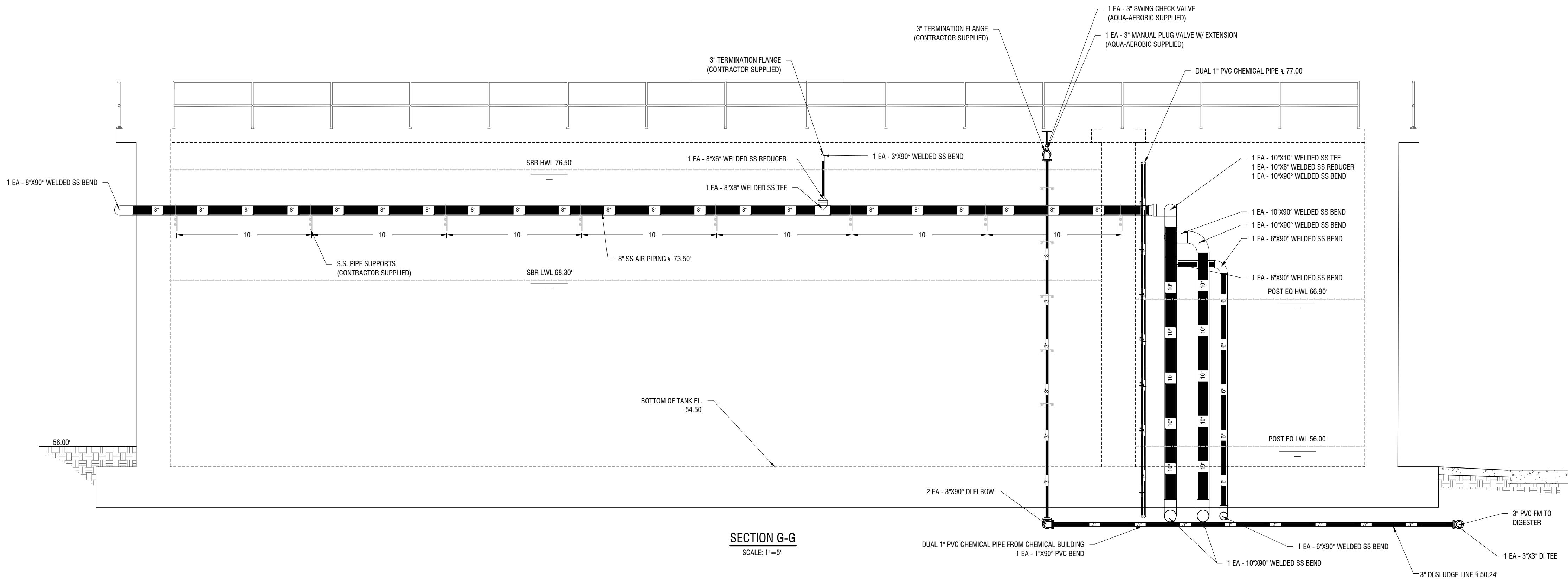
LEONARD LLOYD
541 FIRST STREET
FOLKSTON, GA 31537
(912) 496-2563
penderlloyd@yahoo.com

Water Pollution
Control Plant

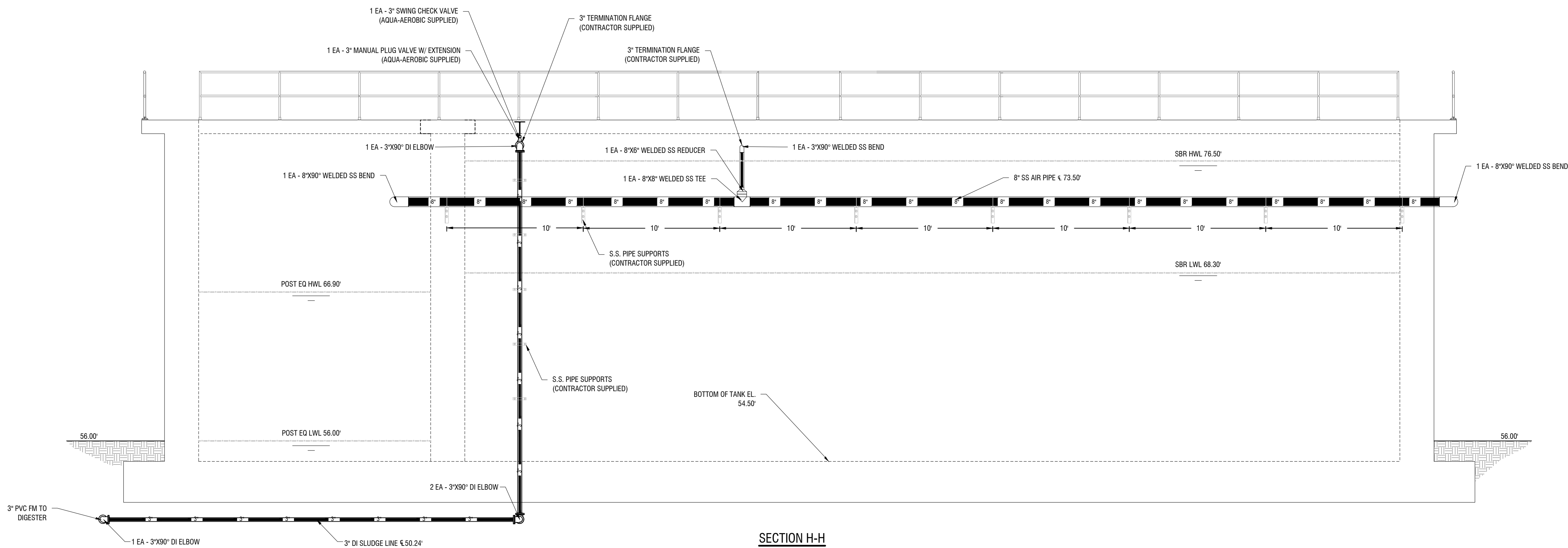
SBR SECTIONS
VIEW 2

M11

FILE NO: 2013-36.1
PLOT DATE: May 1, 2024



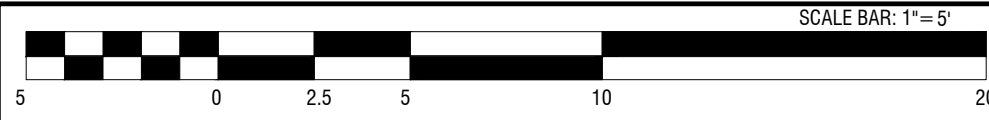
SECTION G-G
SCALE: 1"=5'



SECTION H-H
SCALE: 1"=5'

NOTE:

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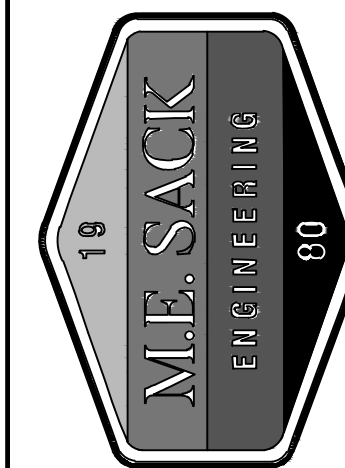
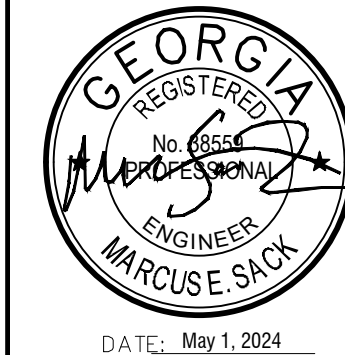
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3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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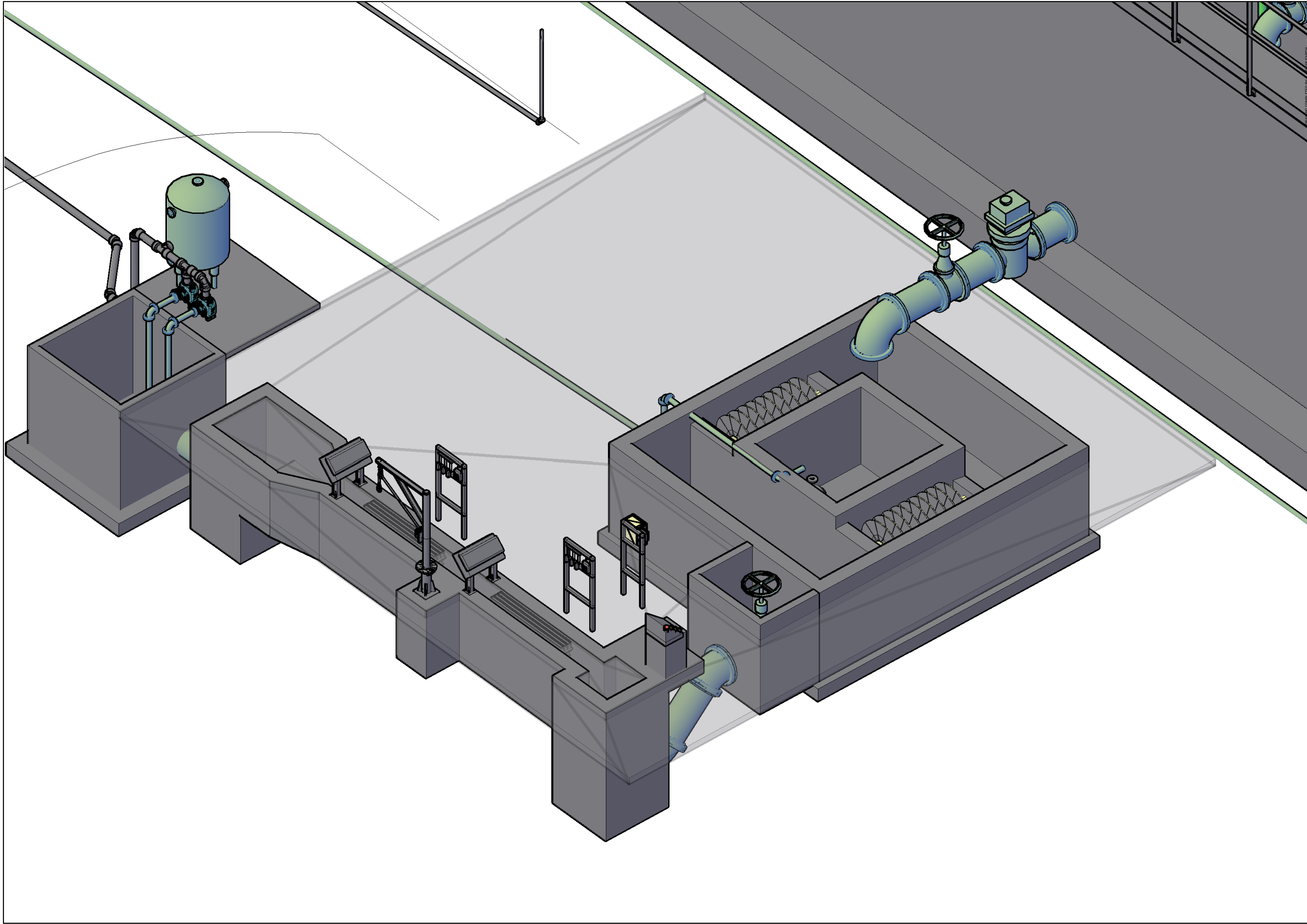
Water Pollution
Control Plant


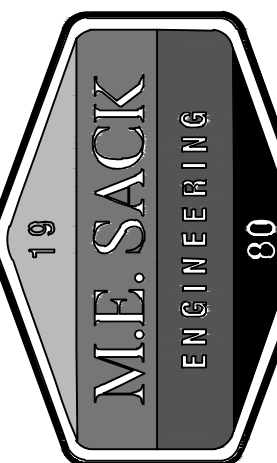
SBR
SECTIONS
VIEW 3

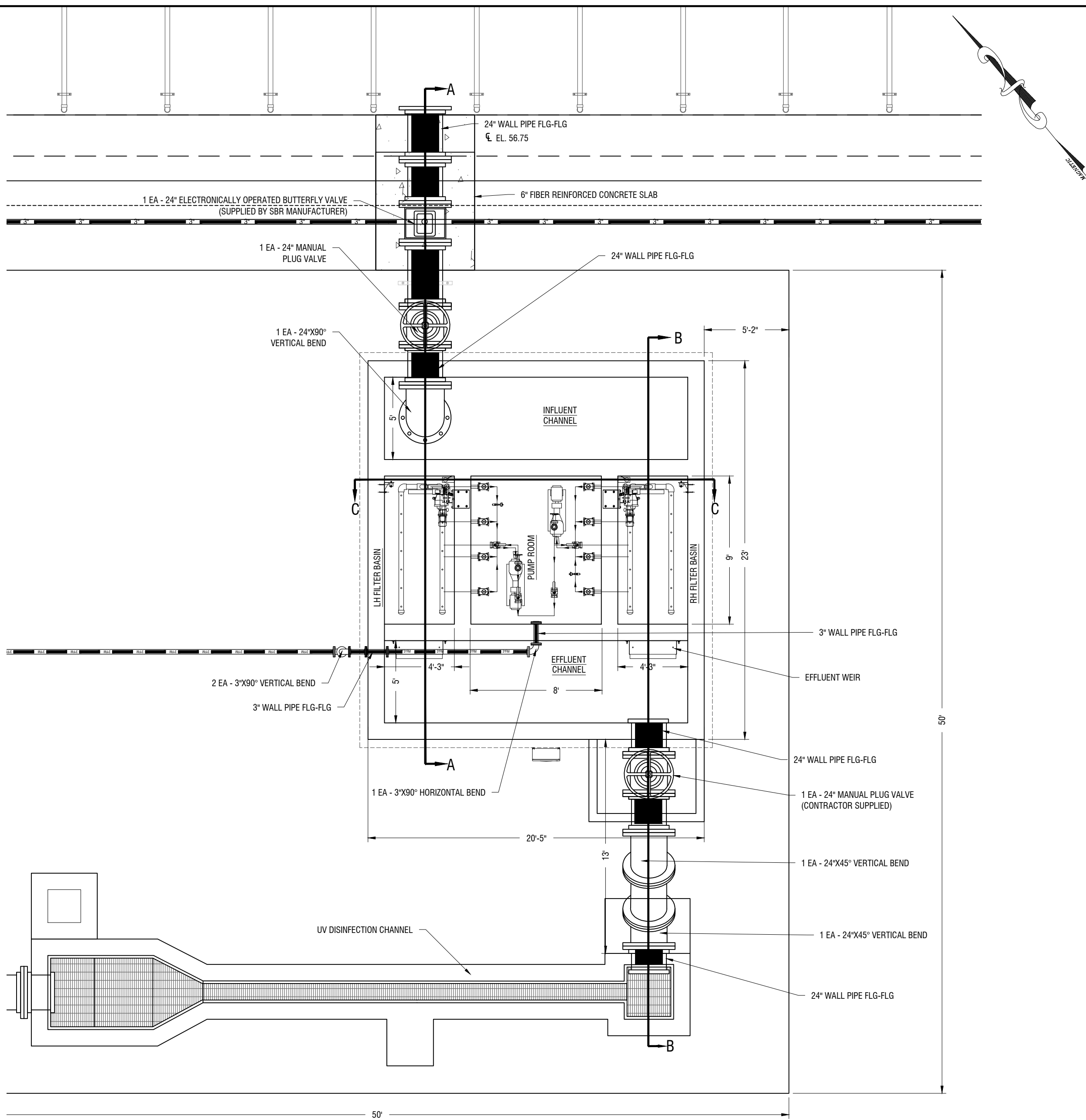
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FILE NO: 2013-36.1

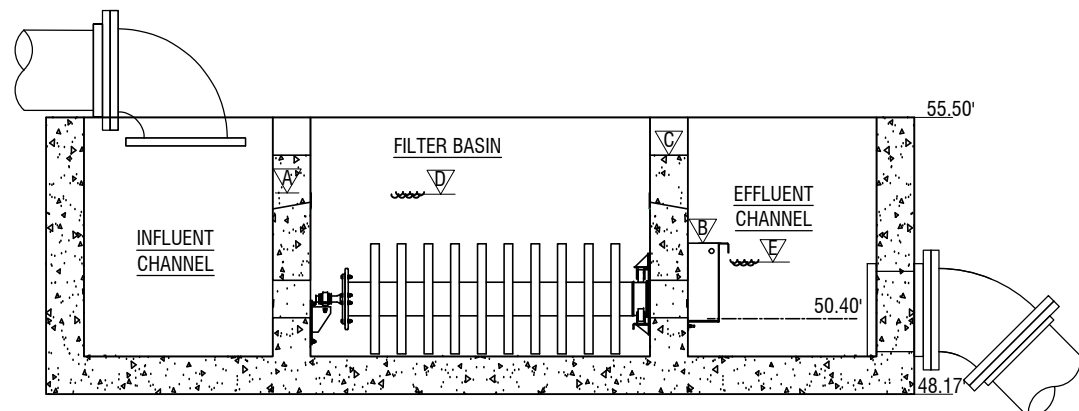
PLOT DATE: May 1, 2024



REVISIONS:	
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515 NORTH MAIN STREET	
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DATE: May 1, 2024	
	
MUNICIPALITY:	
CITY OF FOLKSTON	
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(912) 496-2563	
penderfloyd@yahoo.com	
Water Pollution Control Plant	
TERTIARY TREATMENT ISOMETRIC	
M13	
FILE NO: 2013-36.1	
PLOT DATE: May 1, 2024	

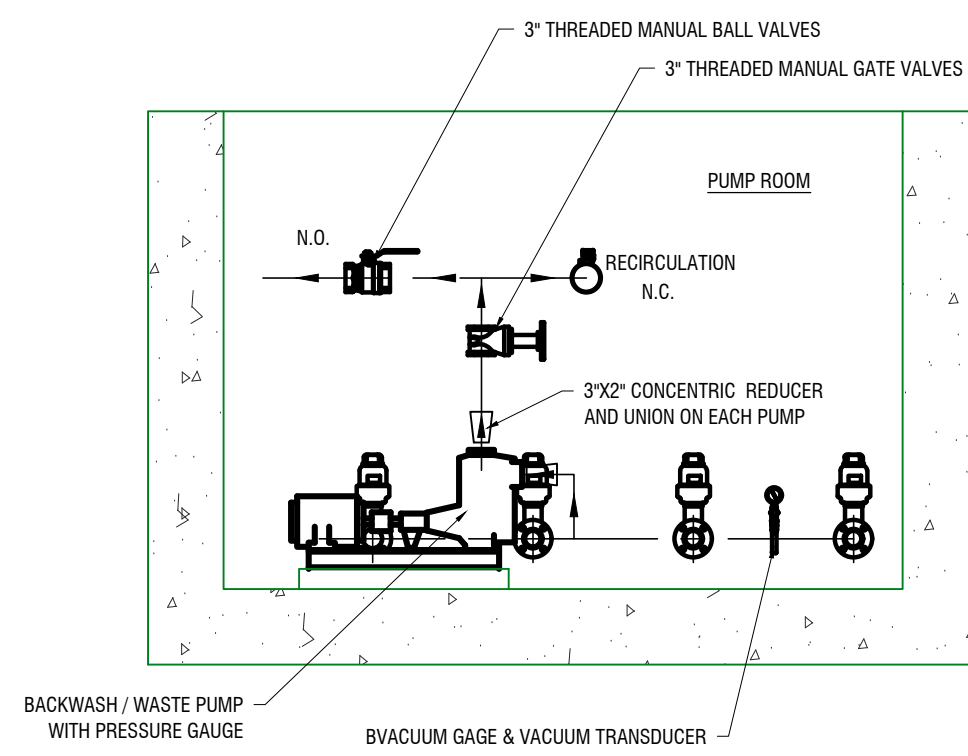


TERTIARY FILTRATION PLAN
SCALE: 1"=5'

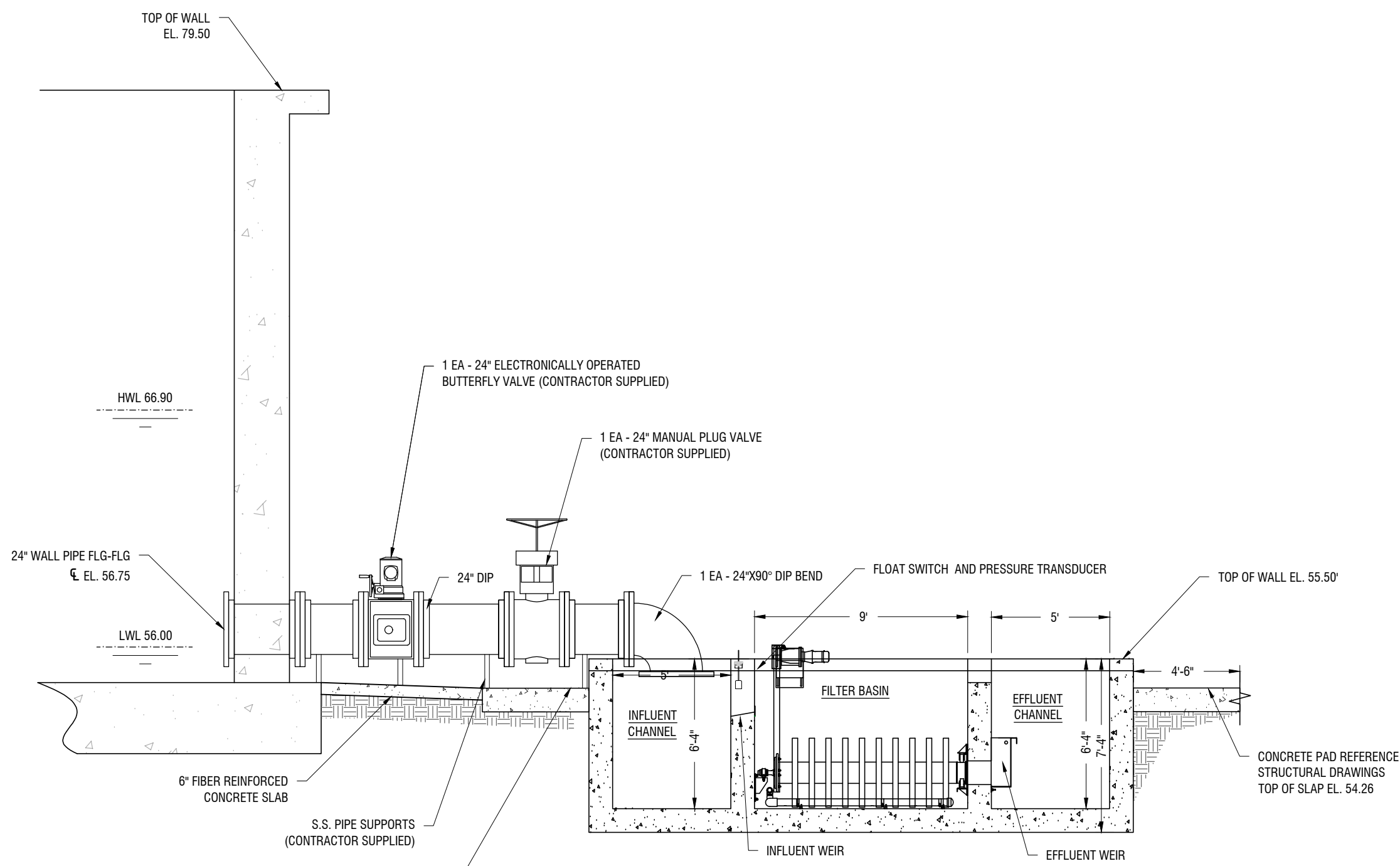


SECTION ELEVATIONS
SCALE: 1"=5'

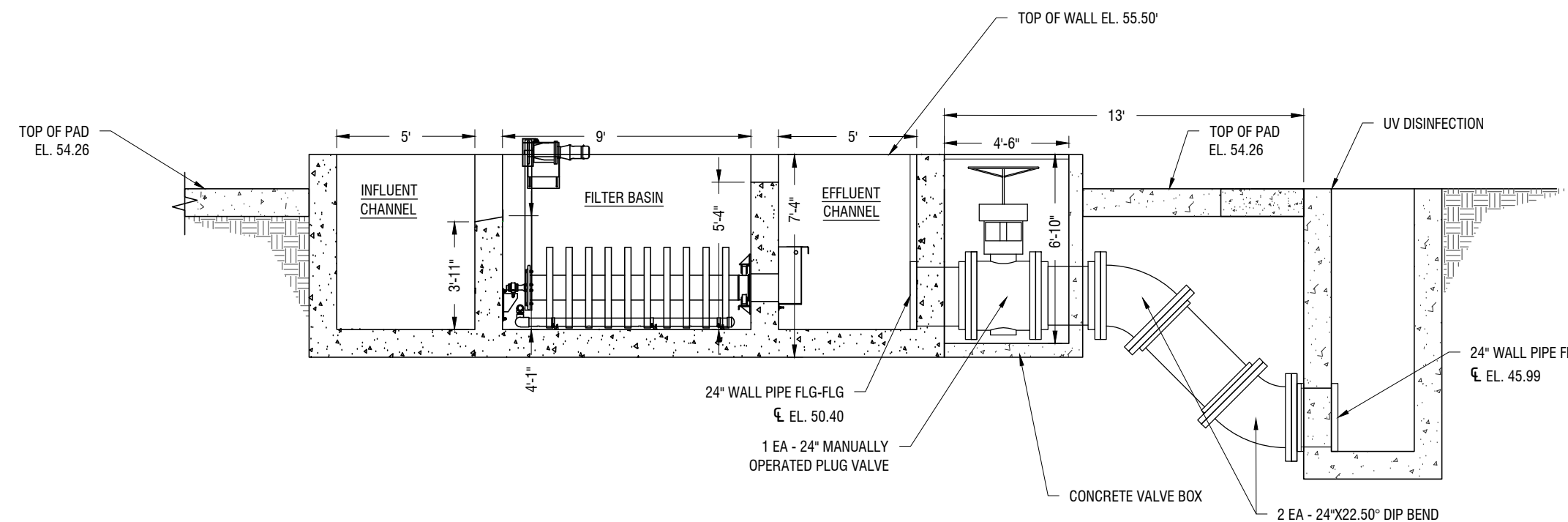
ELEVATION	
A	53.50' INFLUENT WEIR ELEVATION
B	52.17' EFFLUENT WEIR ELEVATION
C	54.50' OVERFLOW WEIR ELEVATION
D	53.47' MAX DOWNSTREAM ELEVATION
E	51.67' BACKWASH INITIATE



BACKWASH PUMP DETAIL
SCALE: 1"=30'

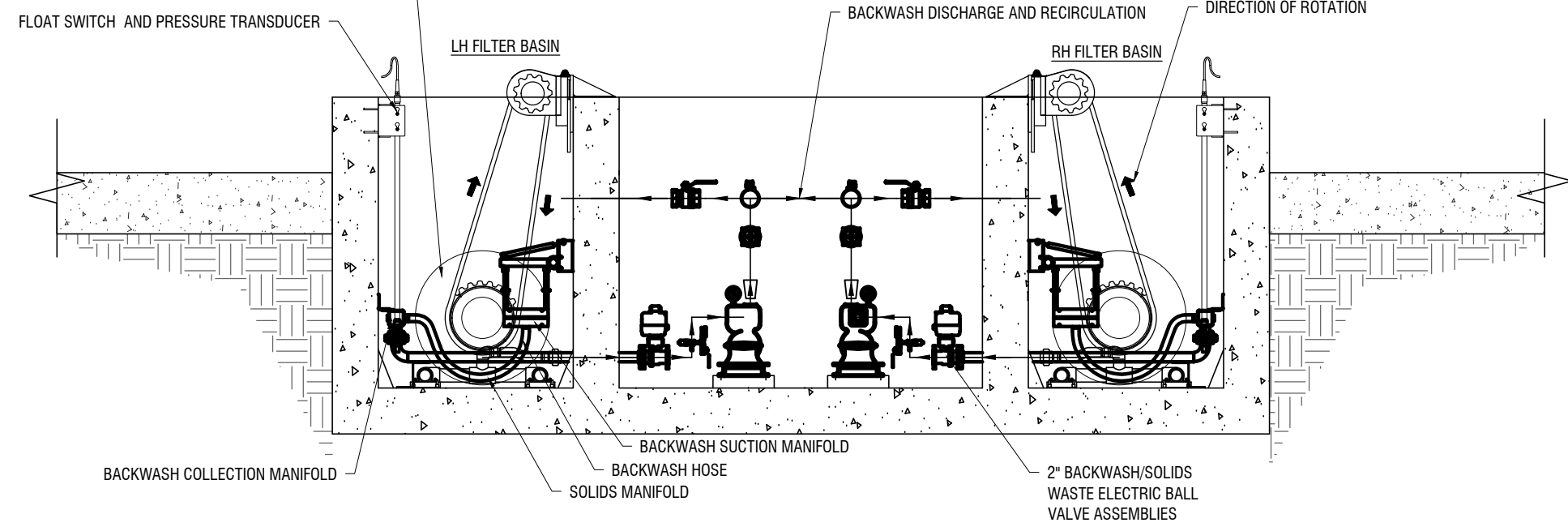


SECTION A-A
SCALE: 1"=5'

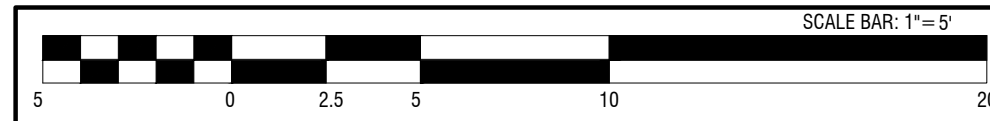


SECTION B-B
SCALE: 1"=5'

THE FILTER DISK IS COMPOSED OF (6) IDENTICAL REMOVABLE SECTIONS, EACH ONE HELD TO THE CENTERPIECE BY (2) 5/8" DIAMETER STAINLESS STEEL RODS. EACH DISK SECTION HAS A RIGID PLASTIC FRAME TO SUPPORT THE CLOTH FILTER MEDIA. THREE PLASTIC "TACK" STRIPS ARE USED TO STRETCH AND HOLD THE CLOTH FILTER MEDIA TO THE FRAME.



SECTION C-C
NTS



REVISIONS:

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2	UPDATE TO MEEW NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

DRAWING COMPLETED BY: OSCAR GARCIA

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MARCUS@MESACK.COM

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TEL: (912) 368-9212

GEORGIA REGISTERED ENGINEER
No. 65566
MARCUS E. SACK
DATE: May 1, 2024

M.E. SACK ENGINEERING

MUNICIPALITY:

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COUNTY:

CHARLTON

OWNER:

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541 FIRST STREET
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penderloyd@yahoo.com

24 HOUR CONTACT:

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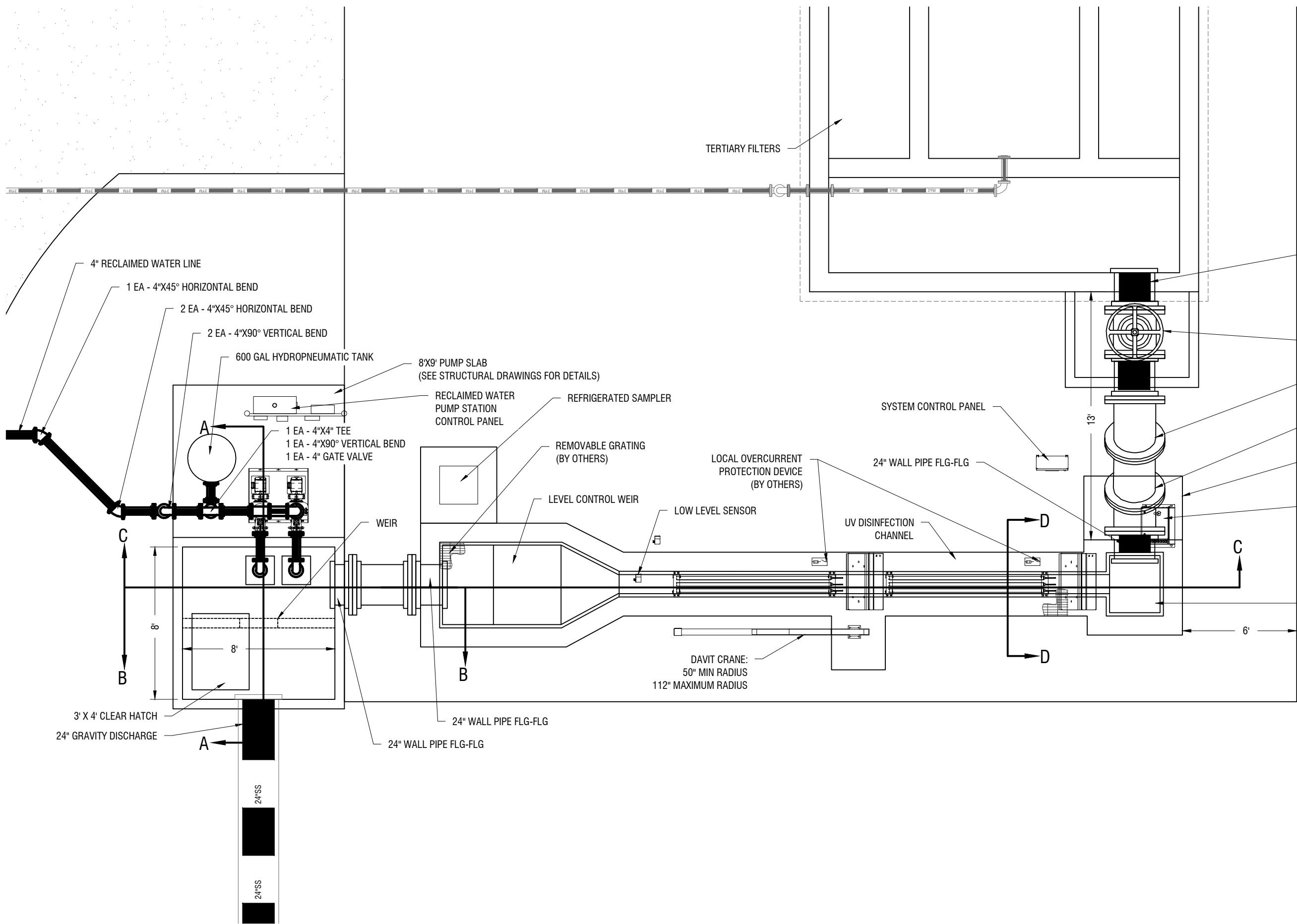
Water Pollution Control Plant

TERTIARY FILTRATION PLAN

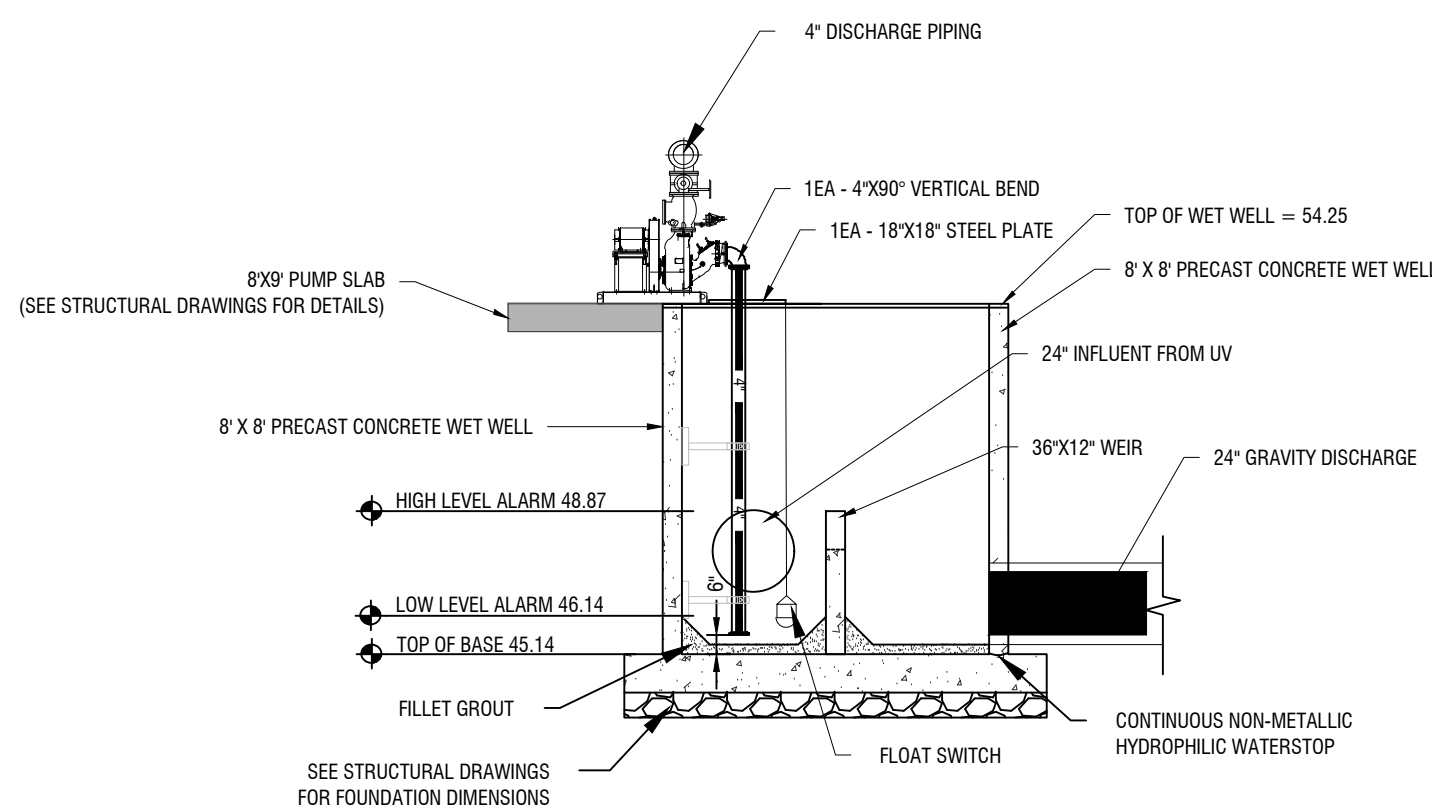
M14

FILE NO: 2013-36.1

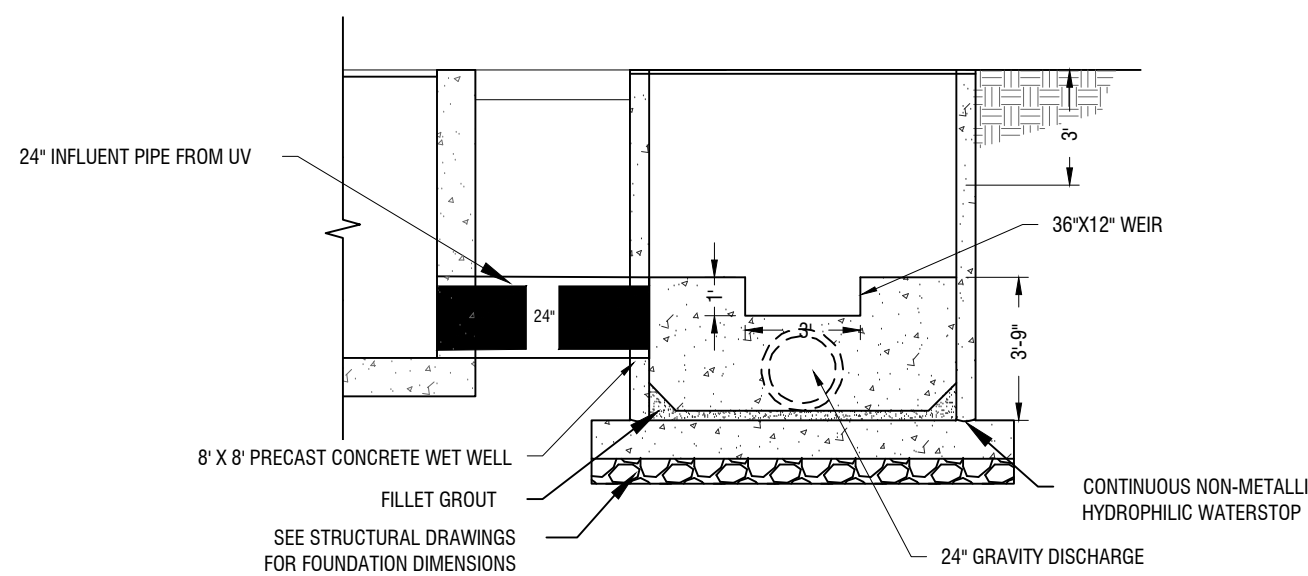
PLOT DATE: May 1, 2024



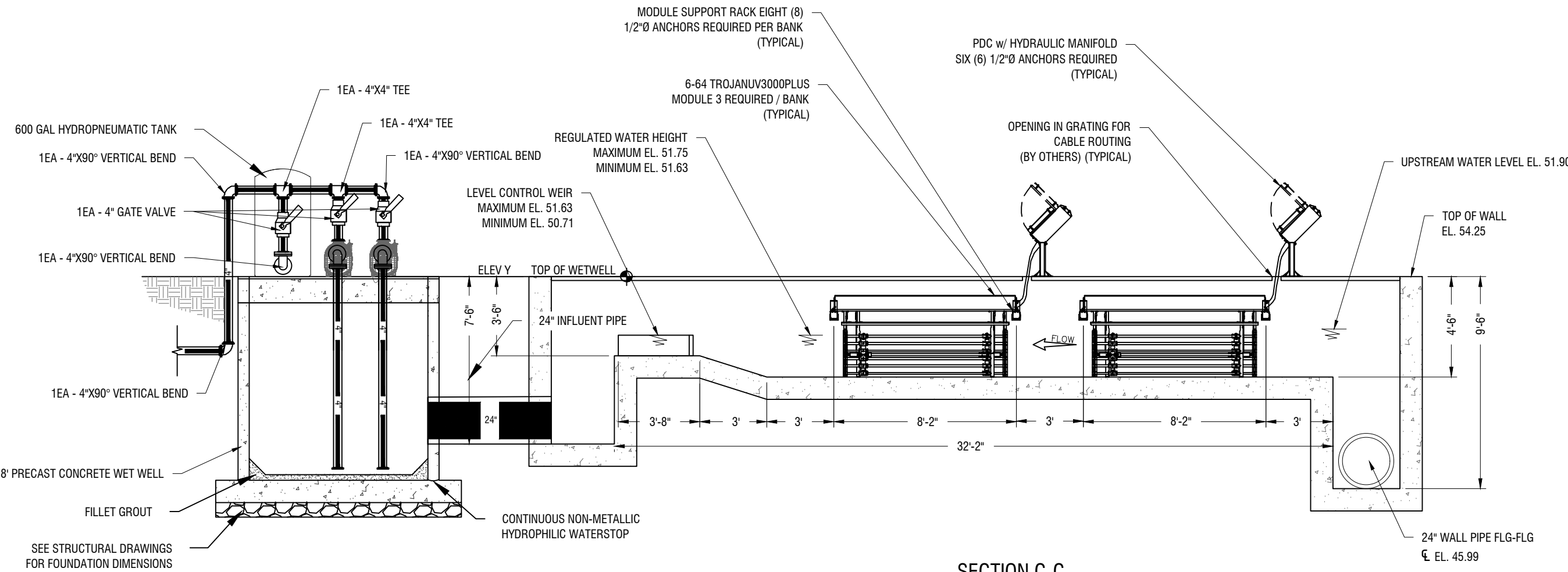
UV SYSTEM PLAN
SCALE: 1" = 5'



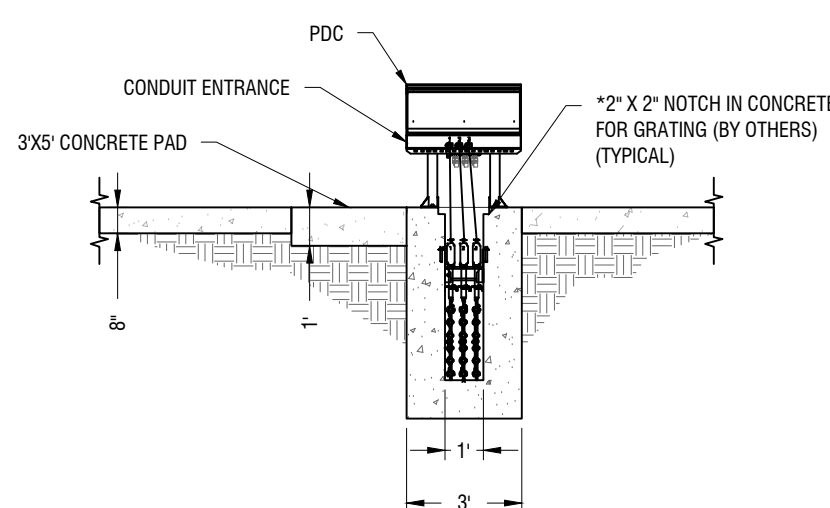
SECTION A-A
SCALE: 1" = 5'



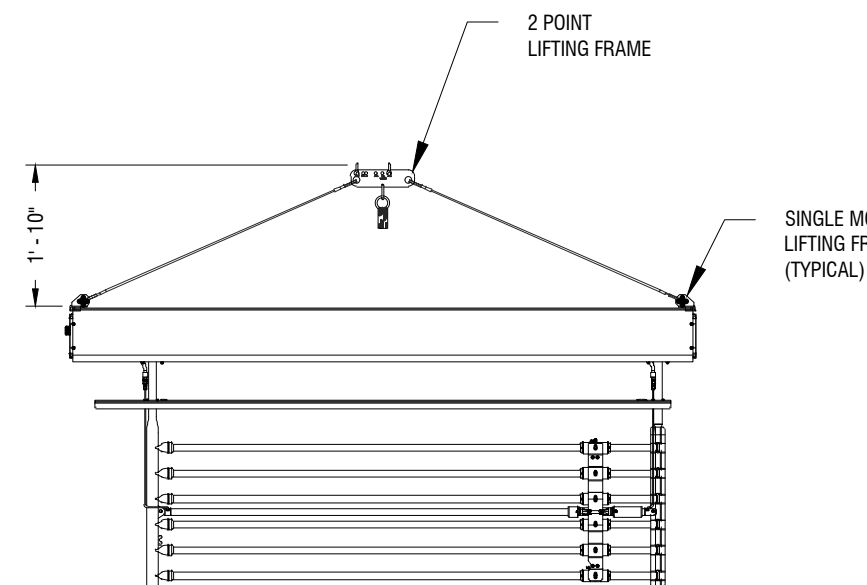
SECTION B-B
SCALE: 1" = 5'



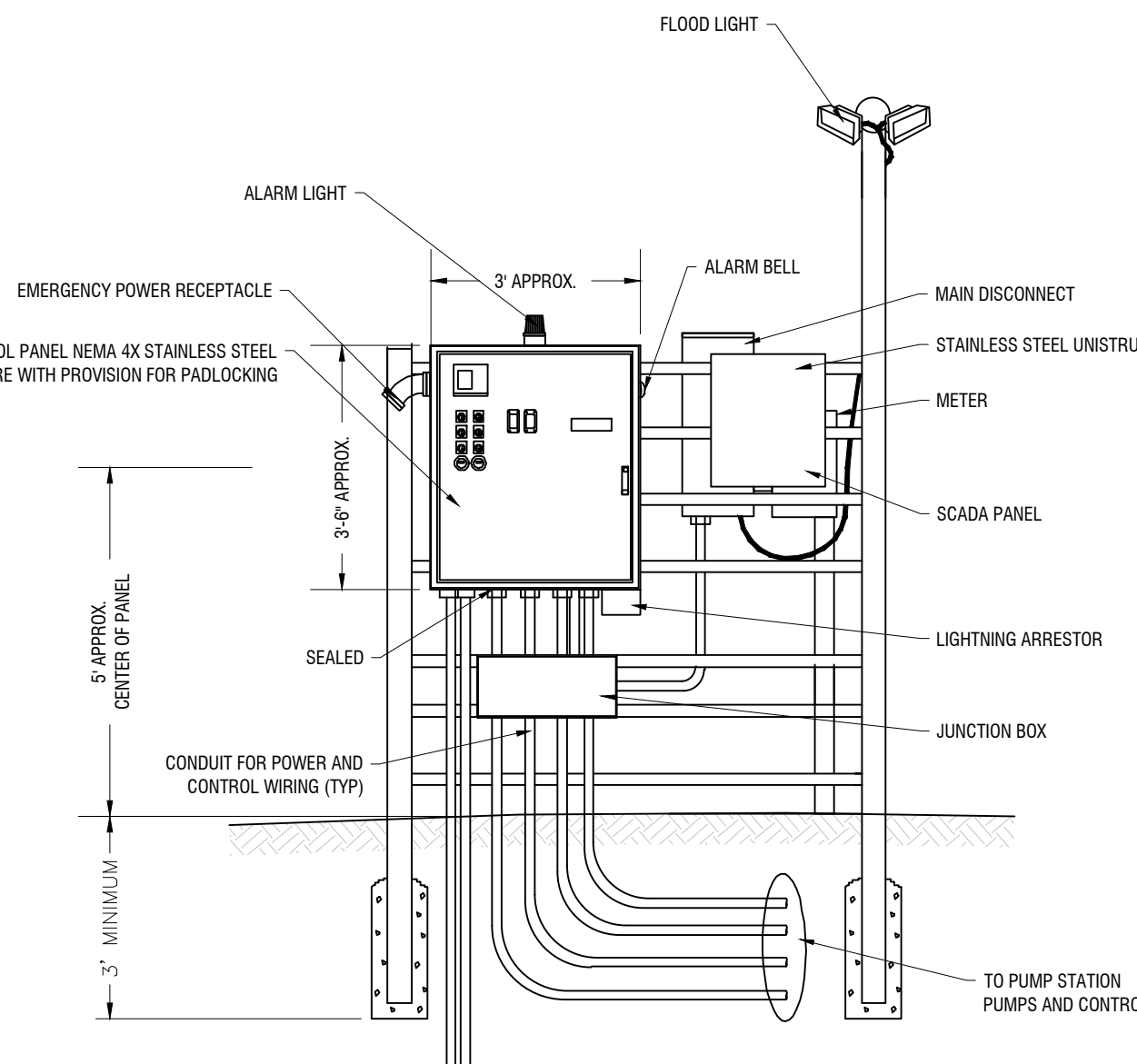
SECTION C-C
SCALE: 1" = 5'



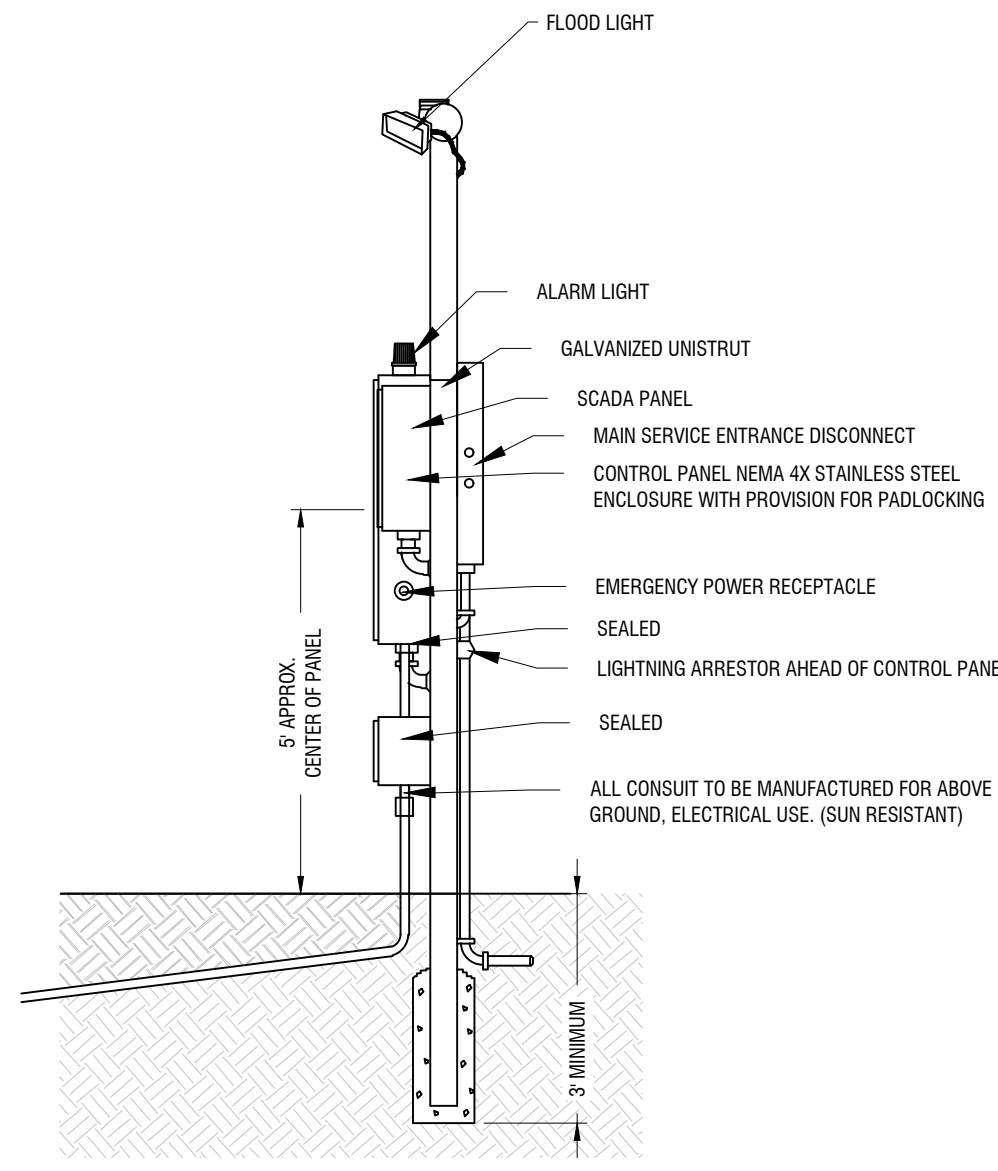
SECTION D-D
SCALE: 1" = 5'



UV MODULE DETAIL
NTS



CONTROL PANEL
ELEVATION VIEW
NTS

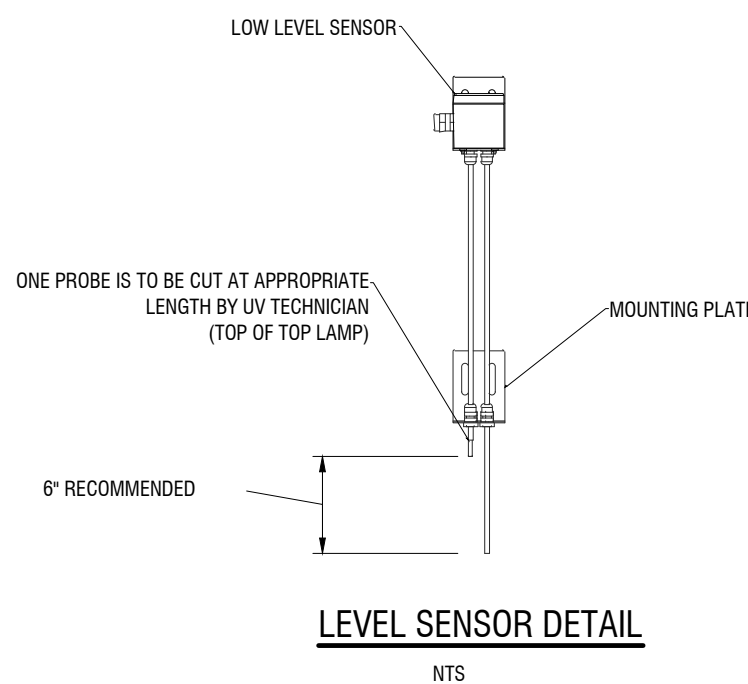


CONTROL PANEL
SIDE VIEW
NTS

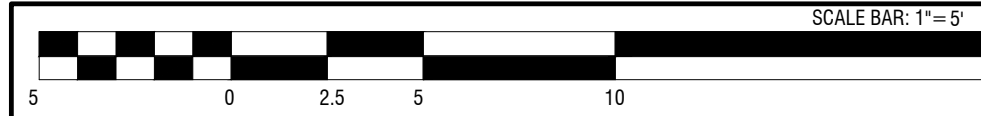
RECLAIMED WATER PUMP STATION GENERAL NOTES:

- PUMPS SHALL MEET ALL REQUIREMENTS IN ACCORDANCE WITH THE SPECIFICATIONS.
- WET WELL SHALL BE COATED INSIDE WITH PVC LINER OR LINED IN PLACE IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL SHALL BE MADE WATER AND GAS TIGHT WITH WALL SLEEVE OR NON-SHRINK GROUT.
- WET WELL SHALL BE HEAVY DUTY ALUMINUM WITH TORSION BAR ASSIST, POSITIVE LOCK AT 90 AND SAFETY GRATE, COVERS SHALL ALSO HAVE PADLOCKING CAPABILITIES (LOADING 300 PSF).
- ELECTRICAL CONDUIT SIZE SHALL BE LARGE ENOUGH TO ALLOW FOR PERIODIC REMOVAL AND REPLACEMENT OF CABLES.
- CABLE HANGERS SHALL BE STAINLESS STEEL.
- REFERENCE STRUCTURAL DRAWINGS FOR ALL STRUCTURAL DIMENSIONS AND DETAILS.

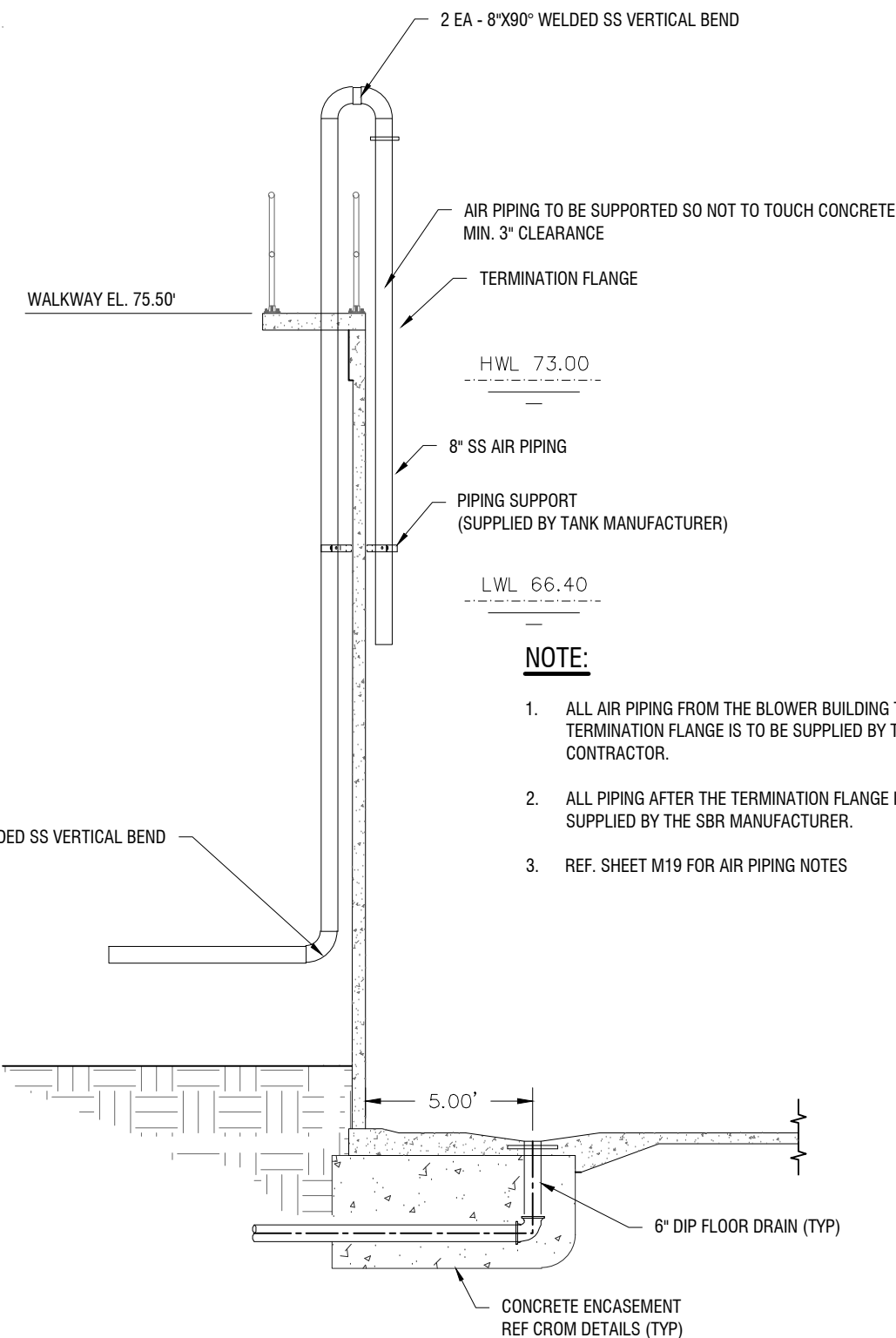
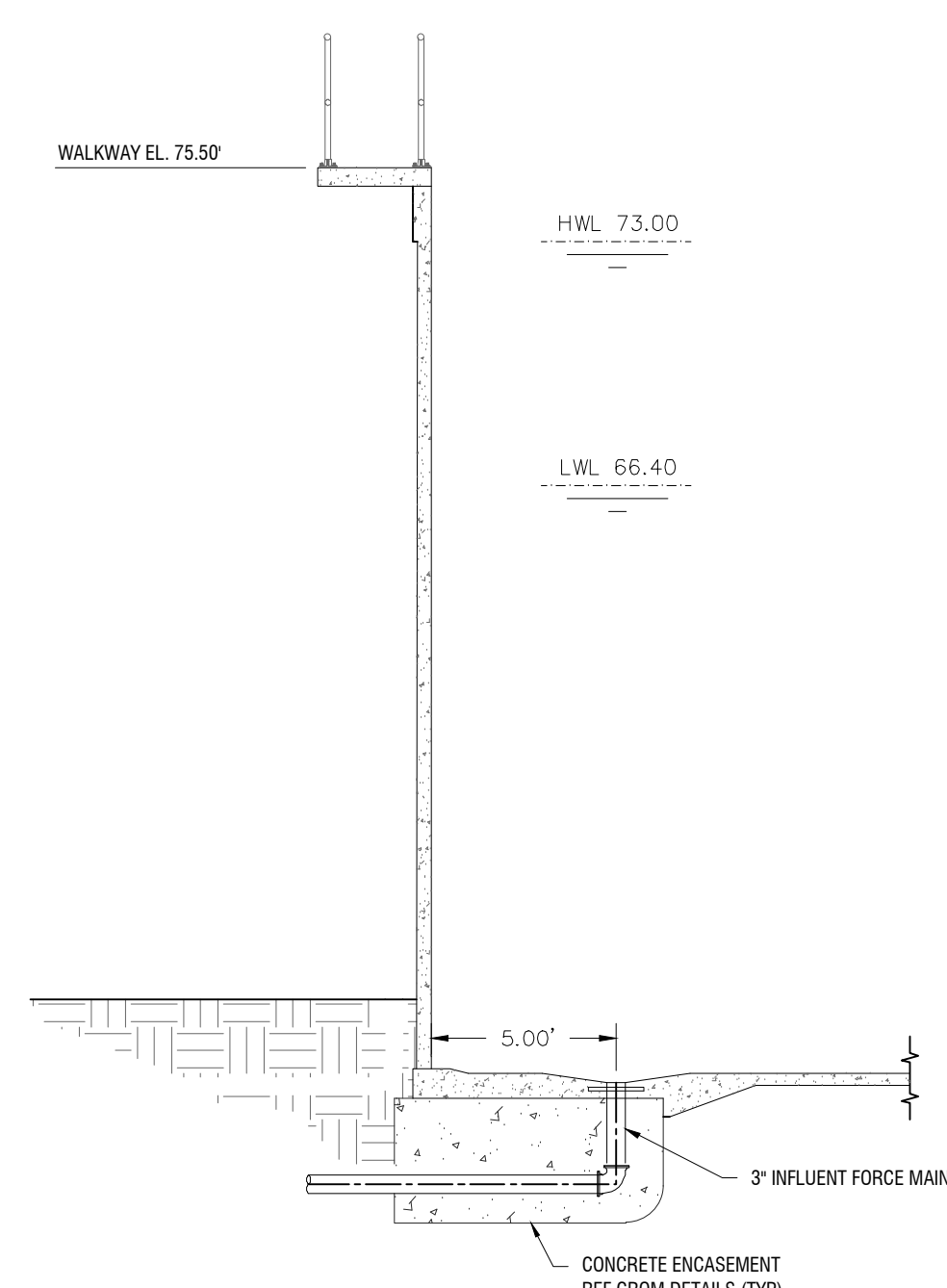
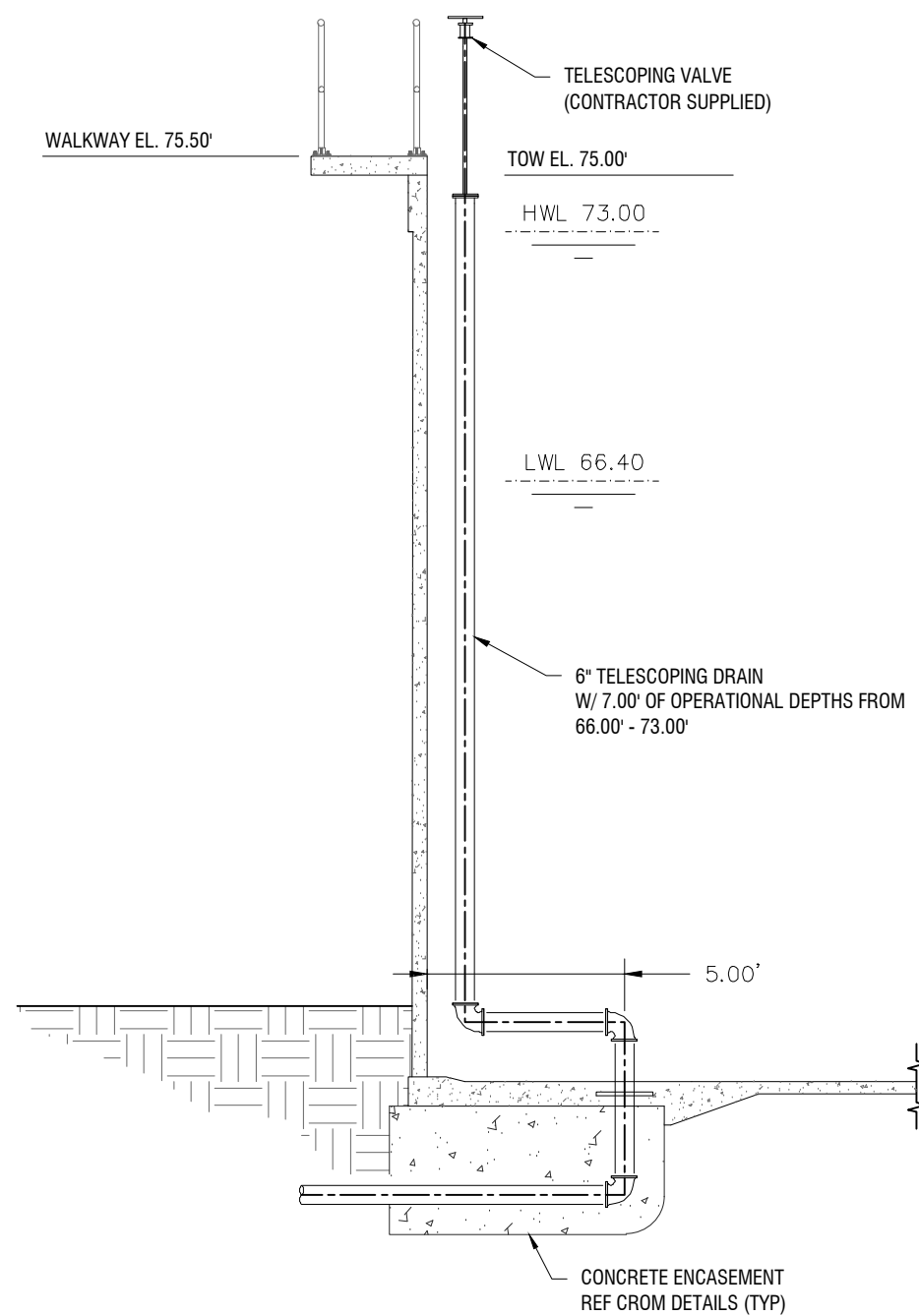
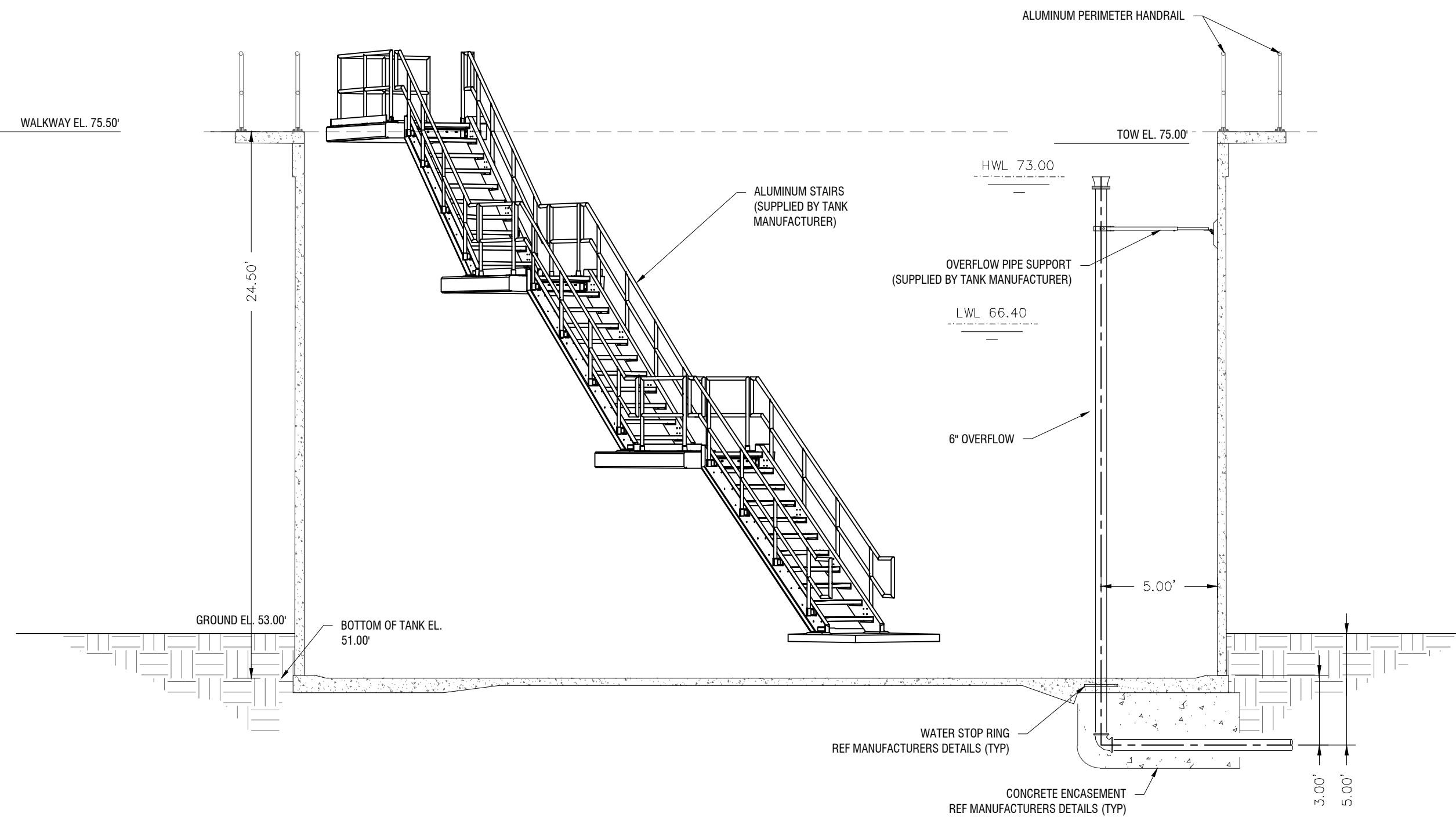
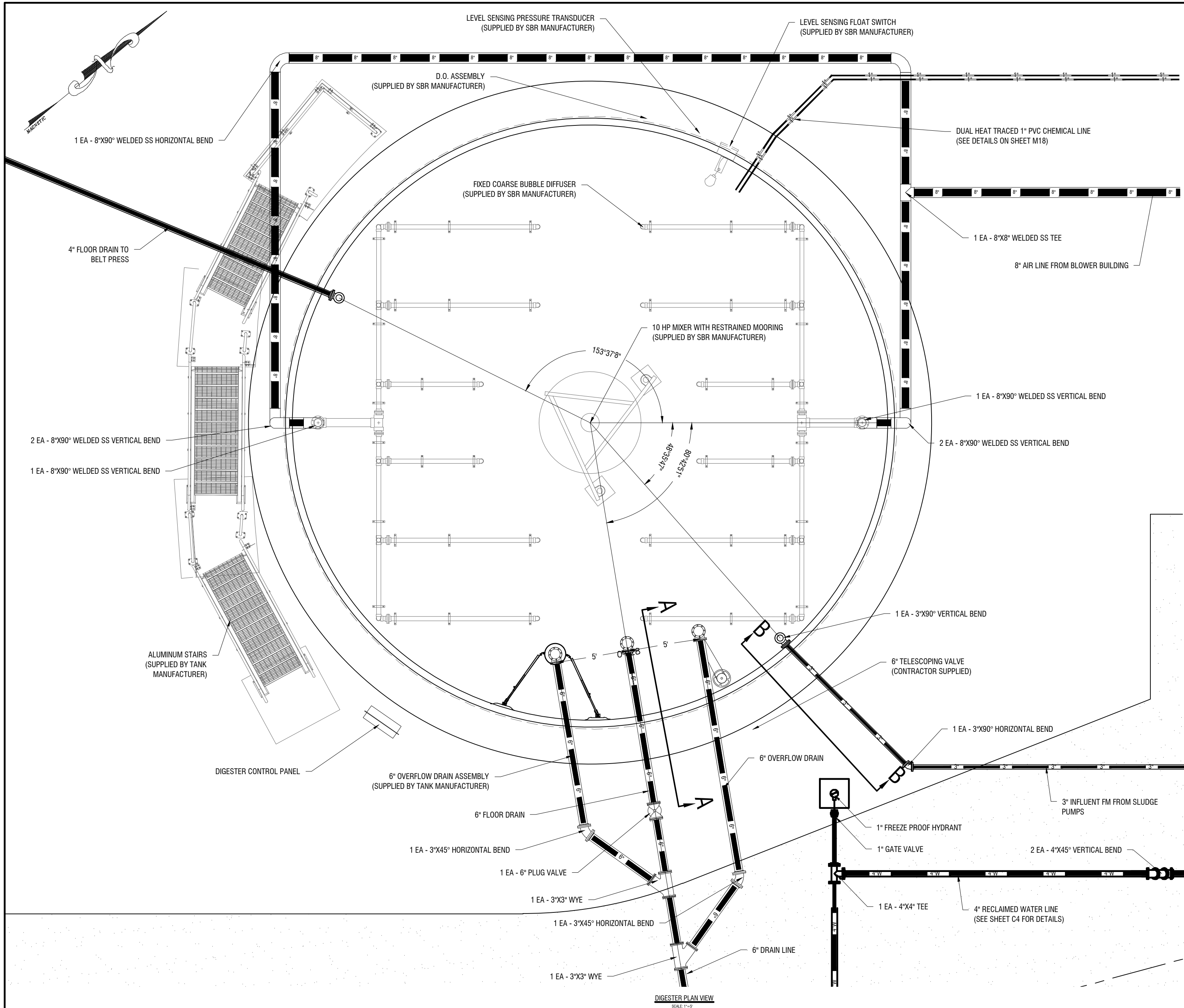
DUTY POINT
• 60 GPM @ 140' TDH



LEVEL SENSOR DETAIL
NTS

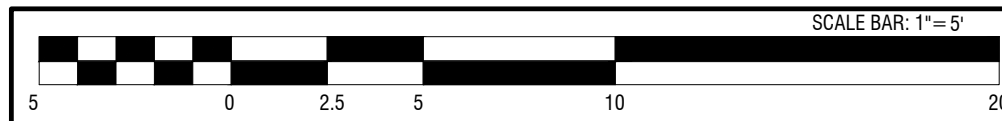
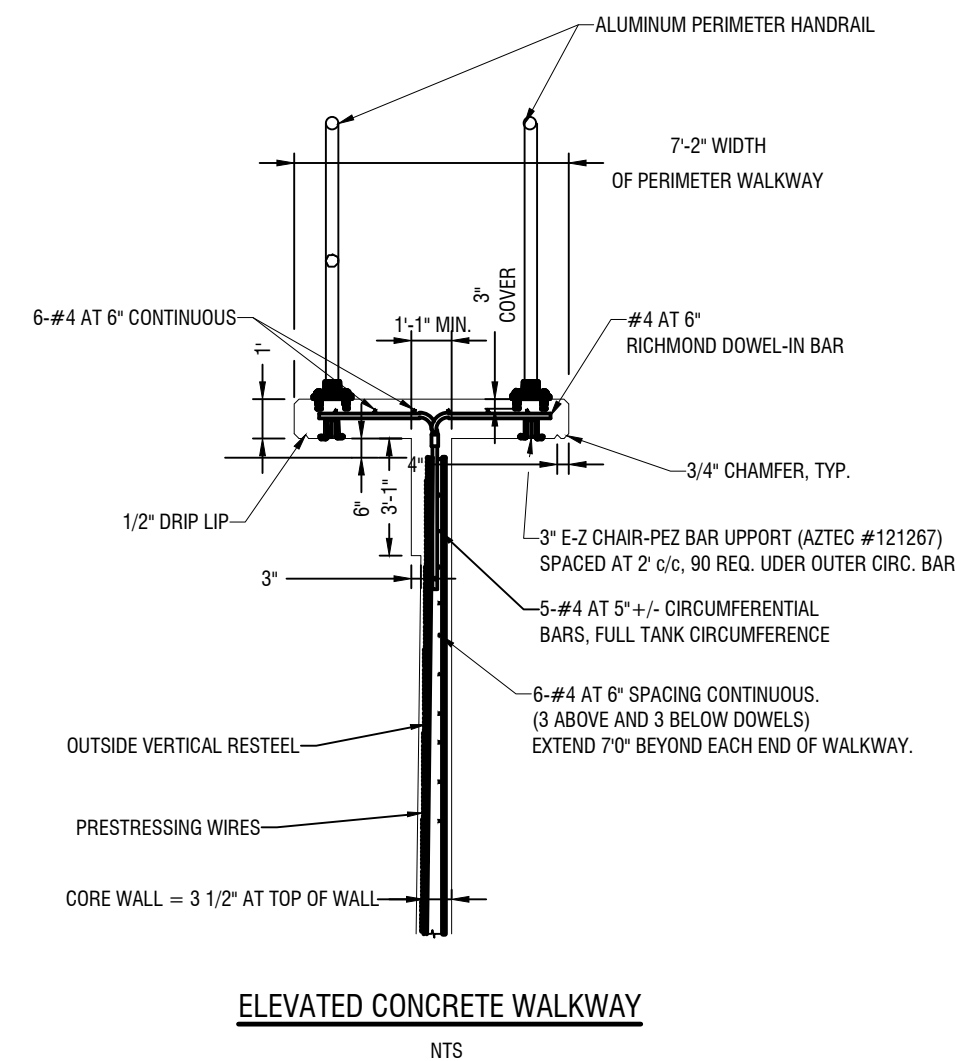


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OWNER: CITY OF FOLKSTON 541 FIRST STREET FOLKSTON, GA 31537 (912) 496-2563 penderloyd@yahoo.com	
24 HOUR CONTACT: LEONARD LLOYD 541 FIRST STREET FOLKSTON, GA 31537 (912) 496-2563 penderloyd@yahoo.com	
Water Pollution Control Plant	
UV & RECLAIMED PS PLAN	
M15	
FILE NO: 2013-36.1 PLOT DATE: May 1, 2024	

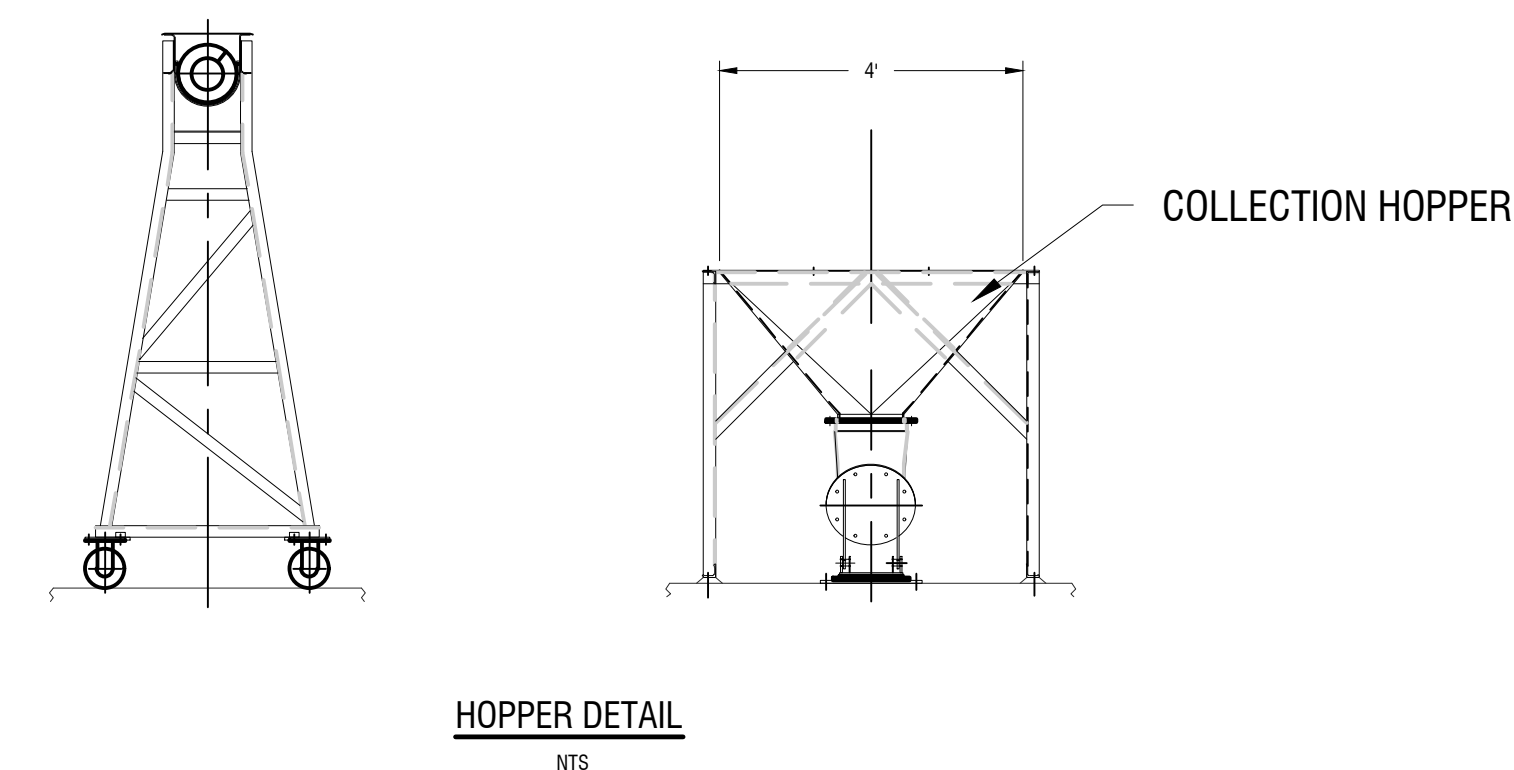
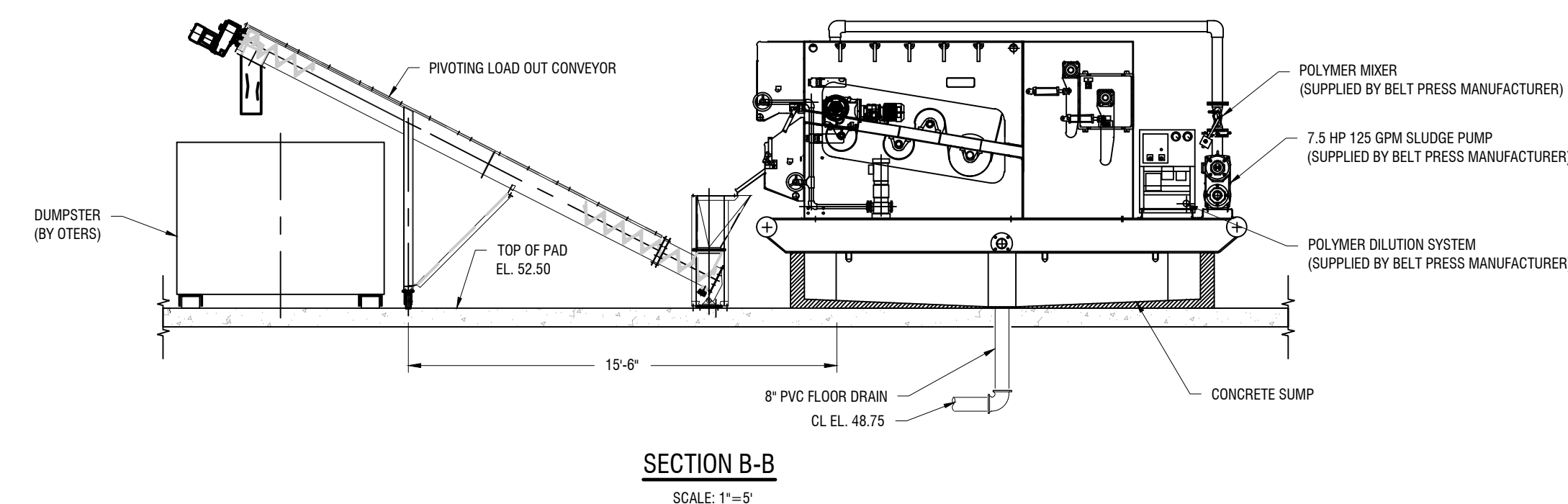
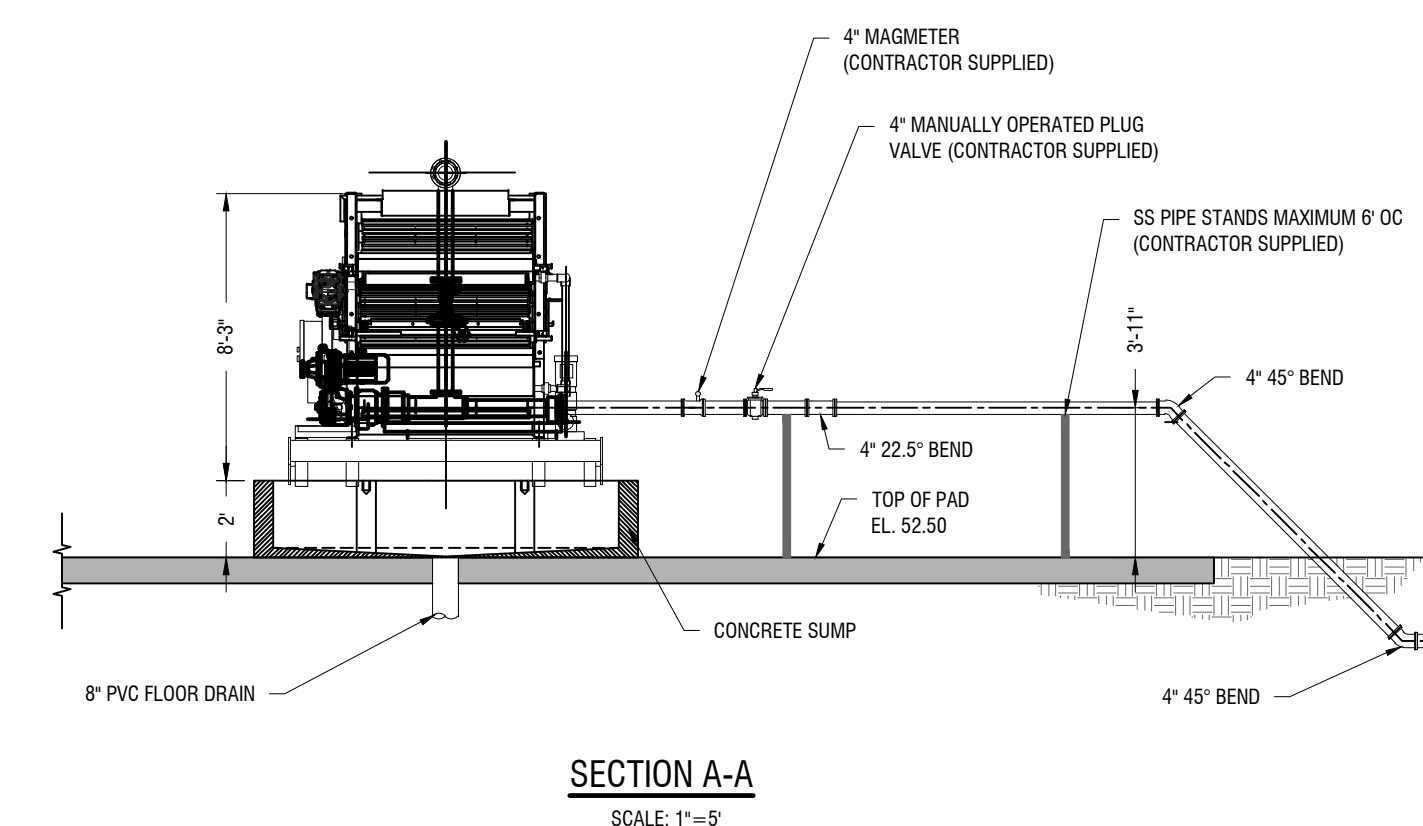
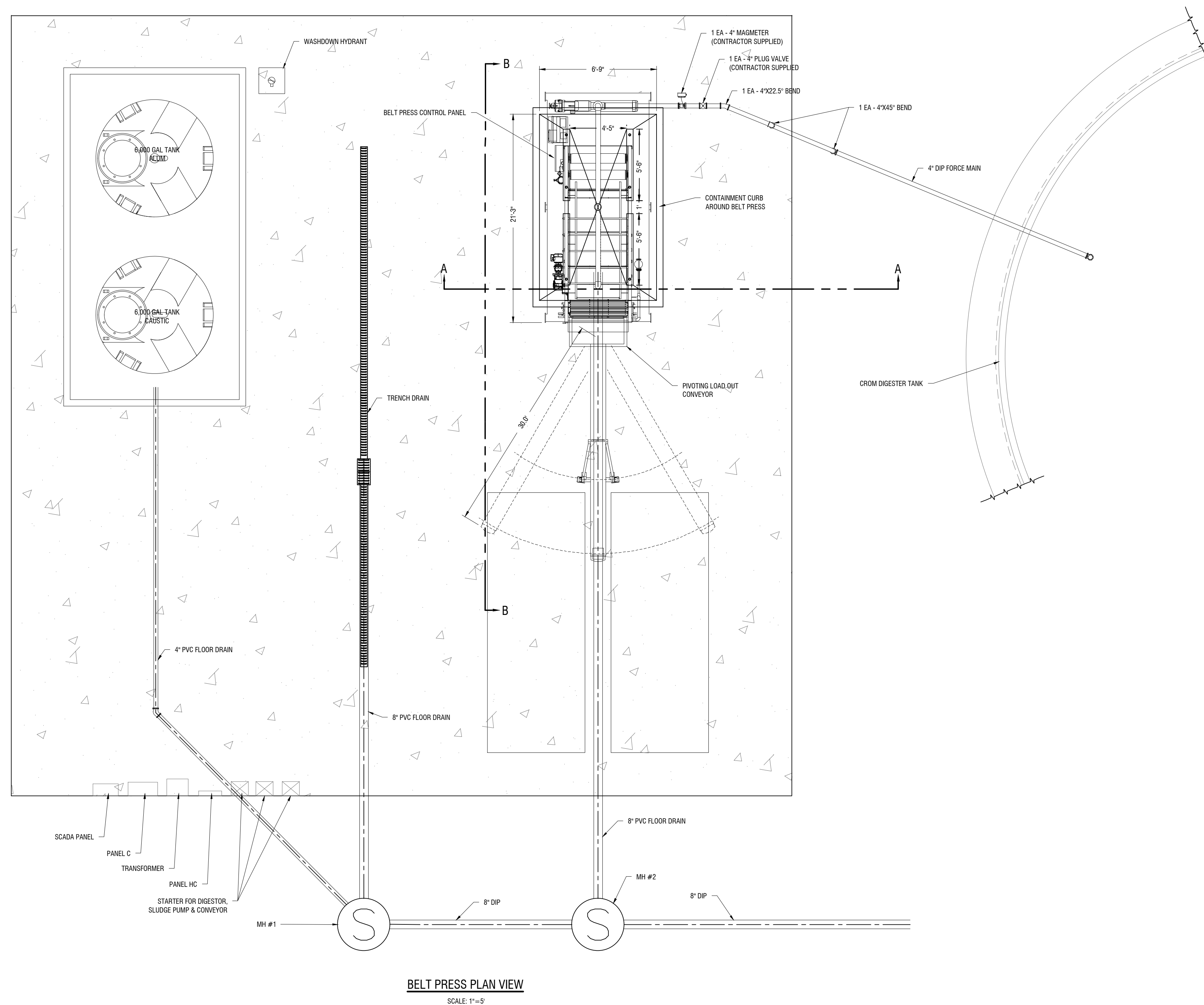


NOTE:

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2. ALL PIPING AFTER THE TERMINATION FLANGE IS SUPPLIED BY THE SBR MANUFACTURER.
3. REF. SHEET M19 FOR AIR PIPING NOTES



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COUNTY: CHARLTON	
OWNER: CITY OF FOLKSTON 541 FIRST STREET FOLKSTON, GA 31537 (912) 496-2563 penderlloyd@yahoo.com	
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Water Pollution Control Plant	
DIGESTER PLAN	
M16	
FILE NO: 2013-36.1	
PLOT DATE: May 1, 2024	



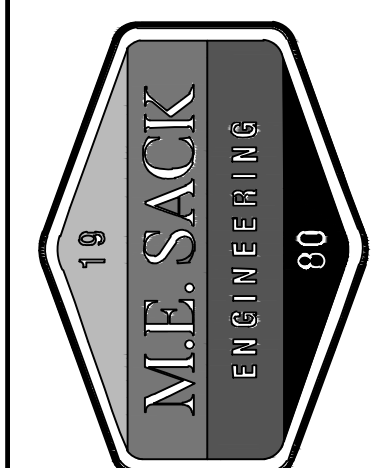
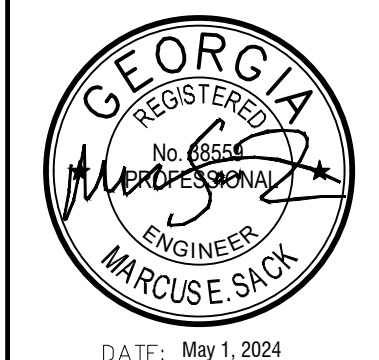
REVISIONS:	
1	GSWCC COMMENTS
2	UPDATE TO MEEW NEW WLA
3	GSWCC COMMENTS
4	DETAIL ADJUSTMENT

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MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON

OWNER:
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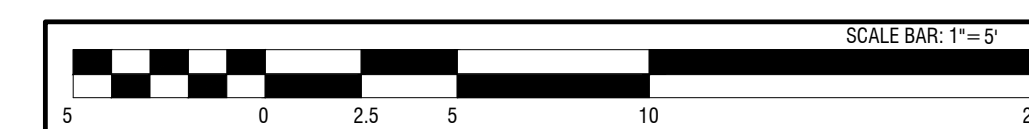
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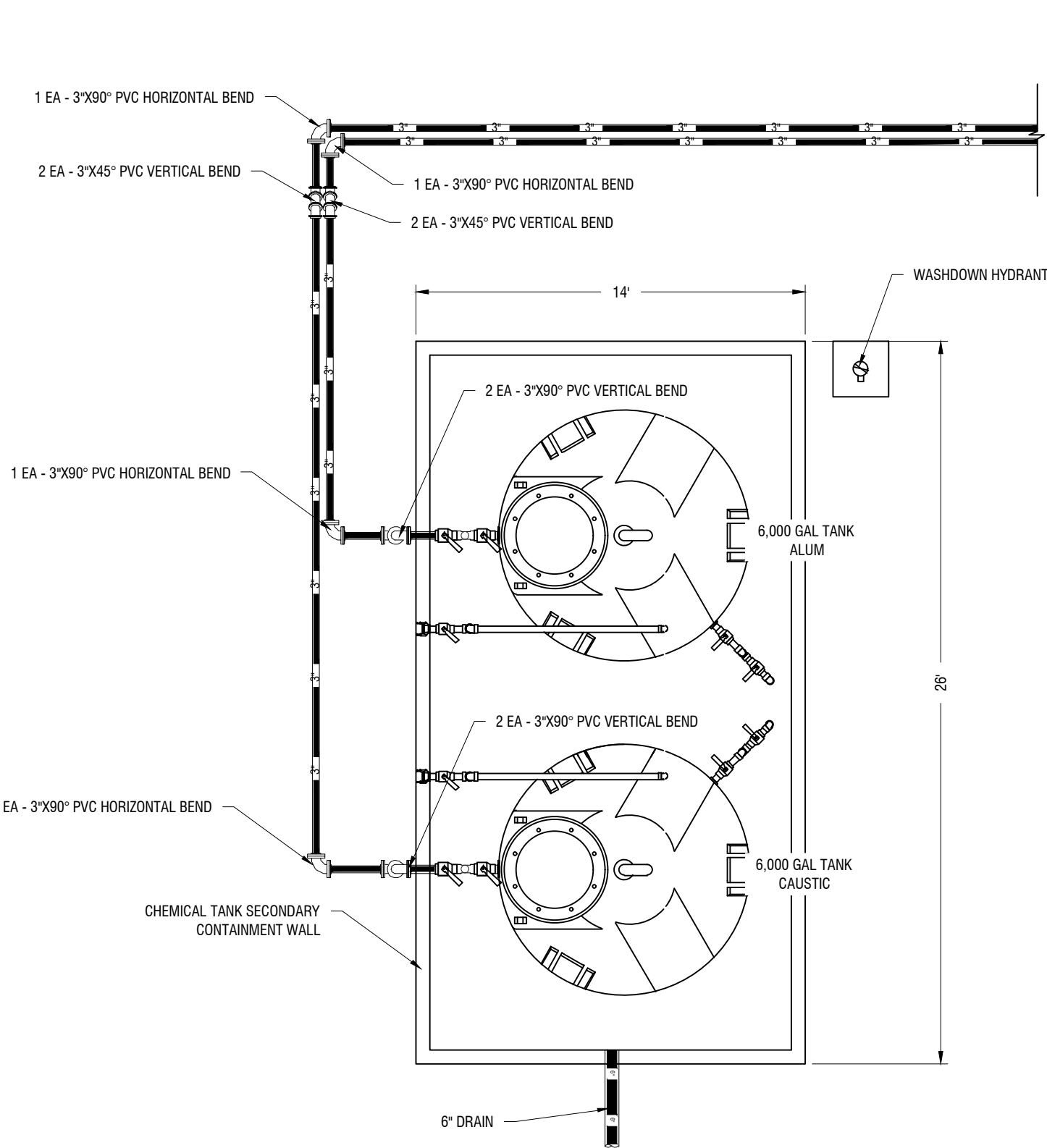
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M17

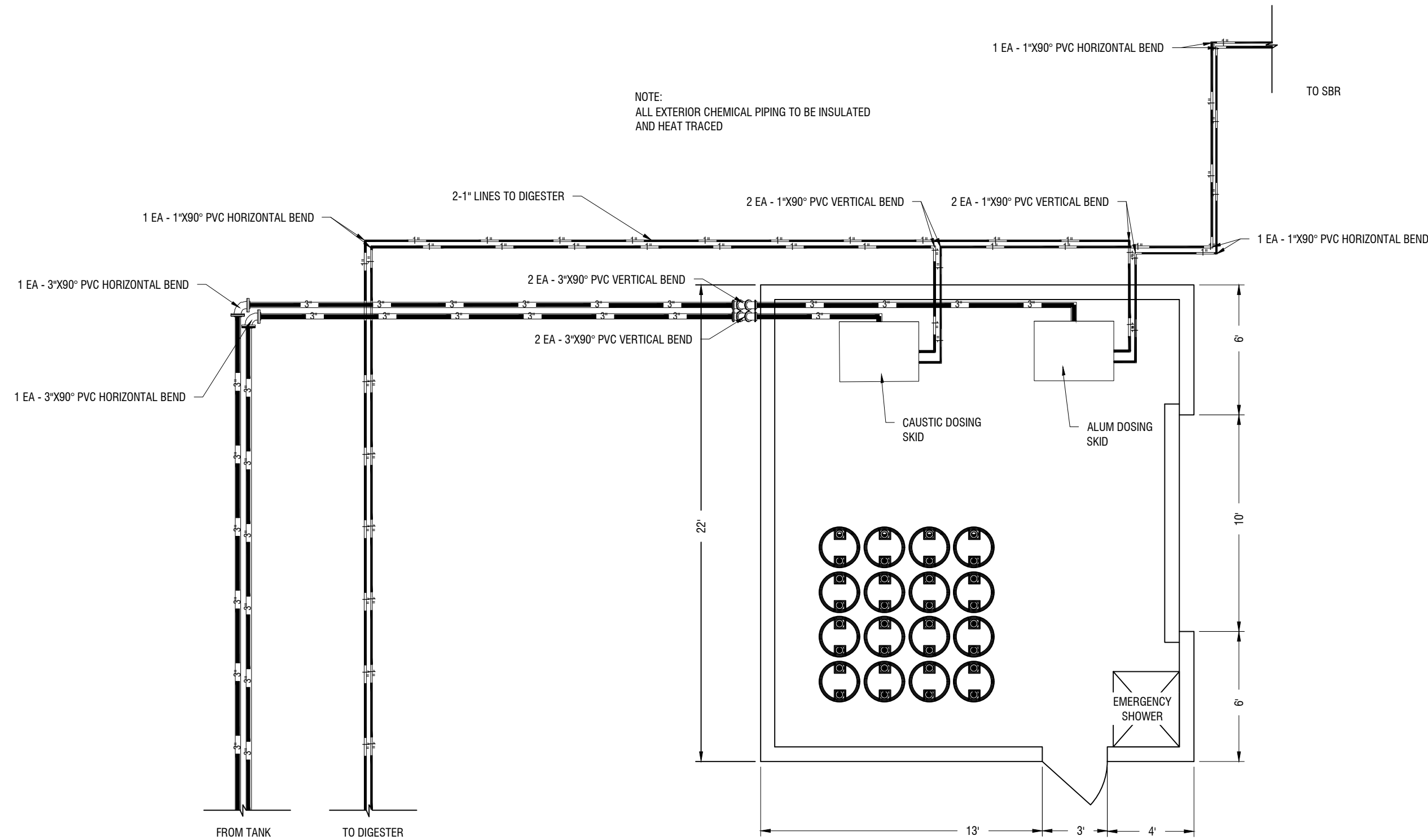
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PLOT DATE: May 1, 2024

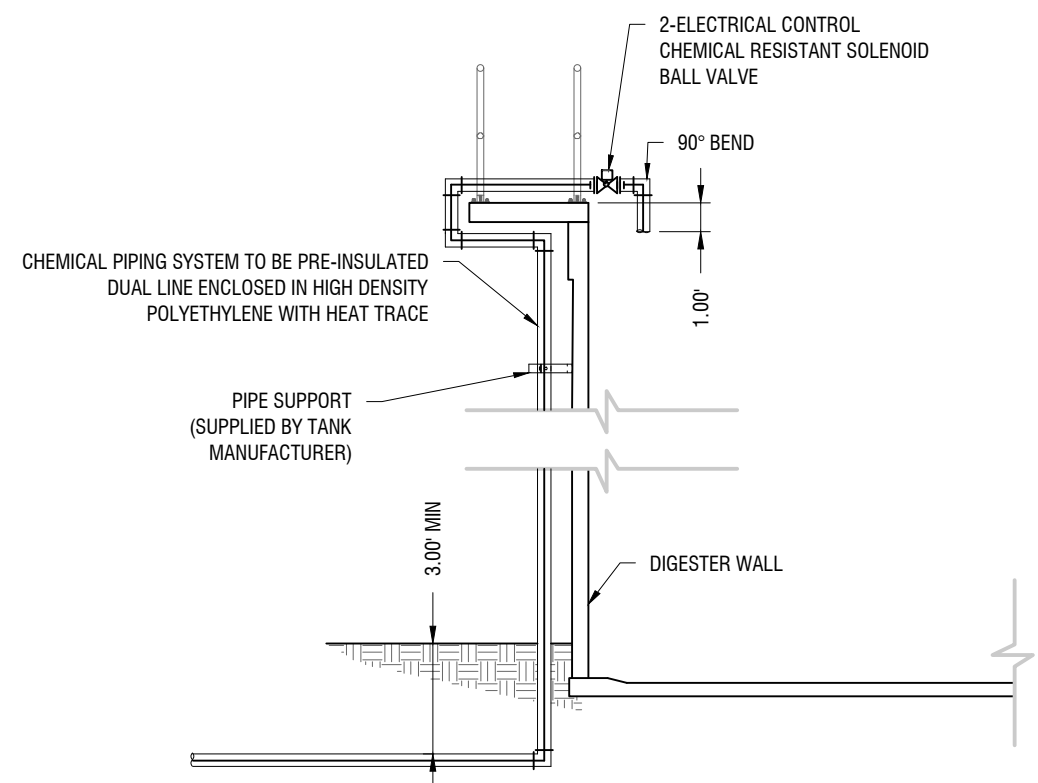




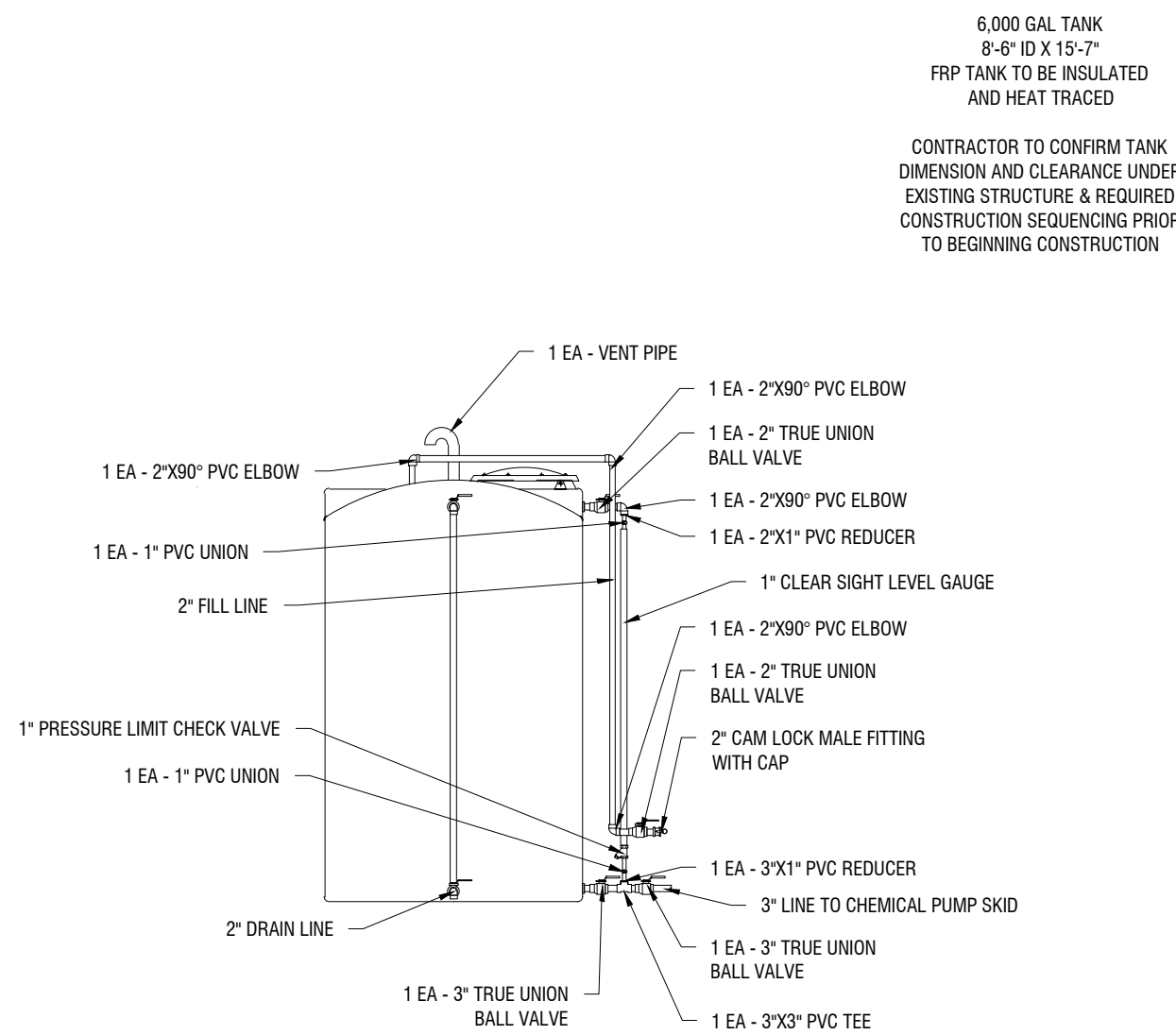
CHEMICAL STORAGE PLAN
NTS



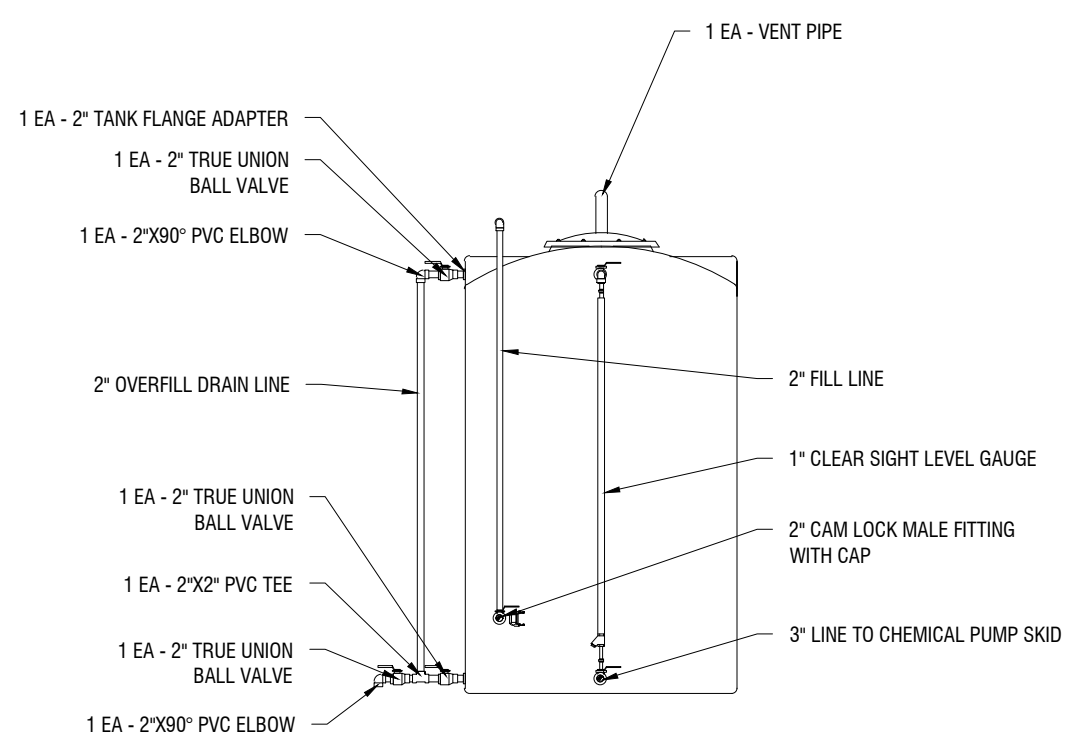
CHEMICAL BUILDING PLAN
SCALE: 1" = 5'



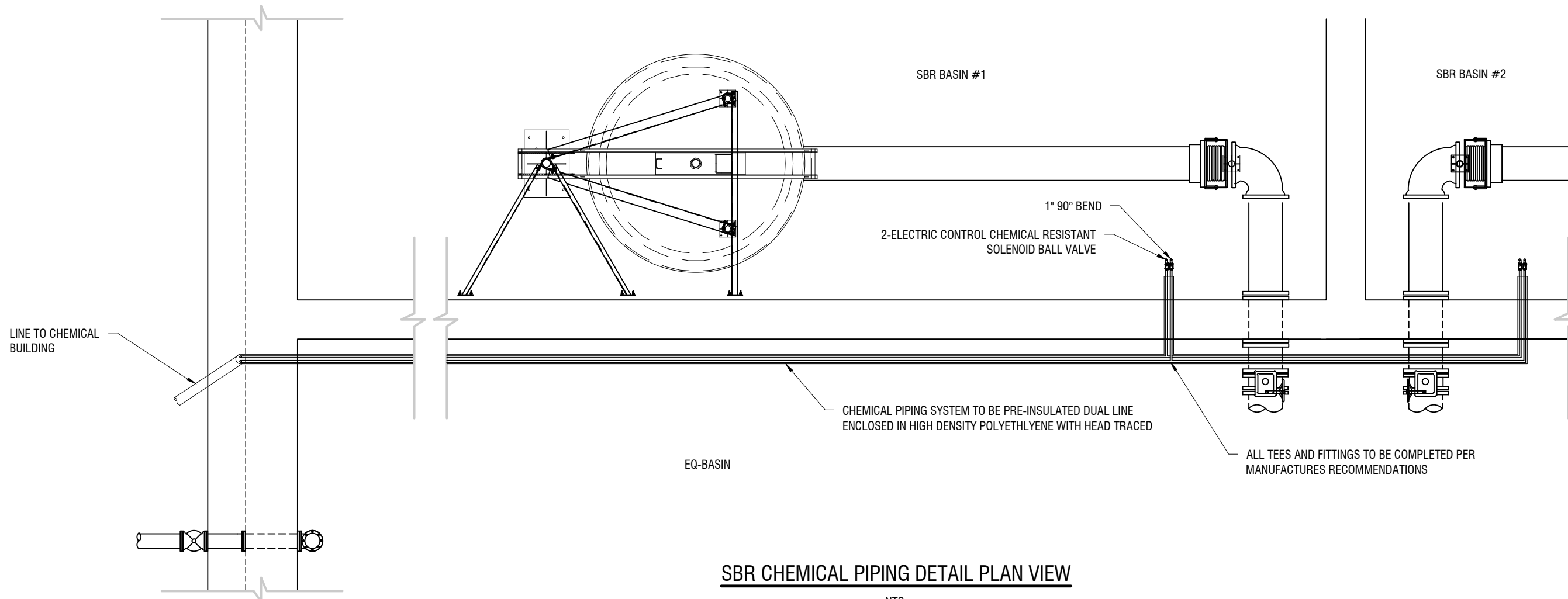
DIGESTER TANK CHEMICAL PIPING DETAIL
NTS



CHEMICAL TANK PIPING DETAIL
PROFILE VIEW
NTS



CHEMICAL TANK PIPING DETAIL
FRONT VIEW
NTS



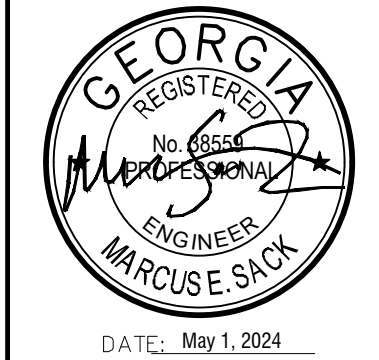
SBR CHEMICAL PIPING DETAIL PLAN VIEW
NTS

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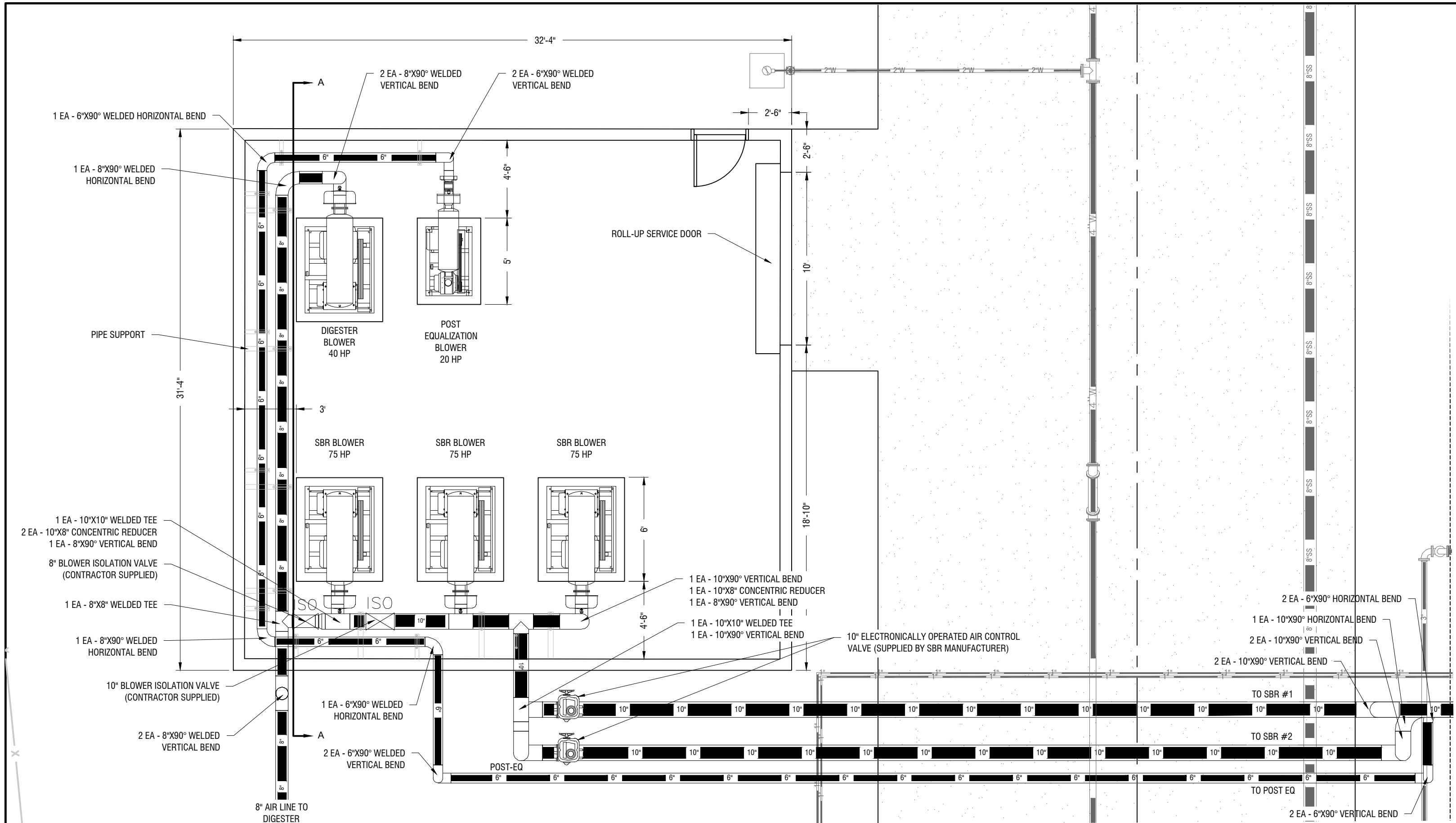
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Water Pollution
Control Plant

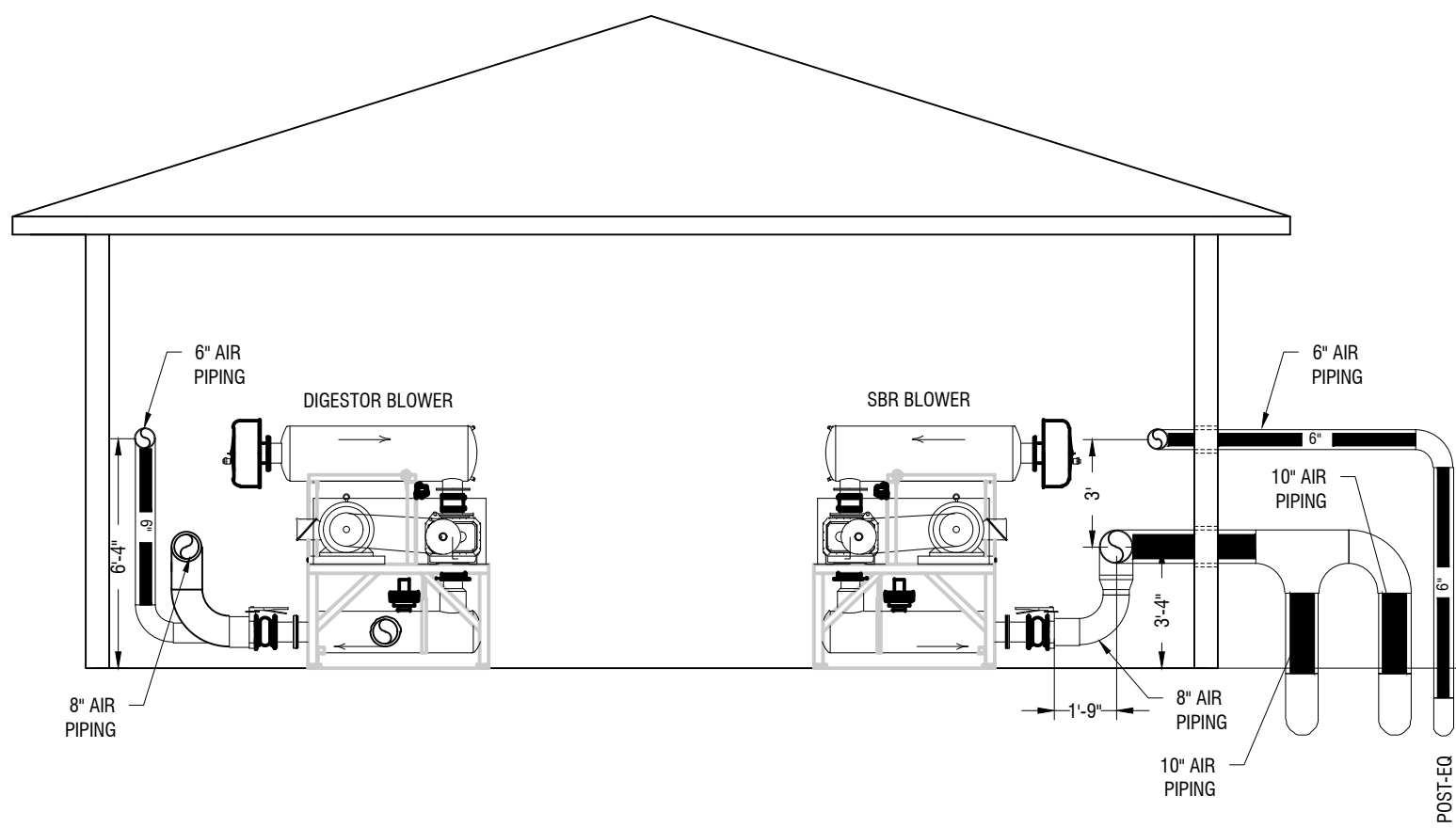
CHEMICAL
FEED SYSTEM

M18

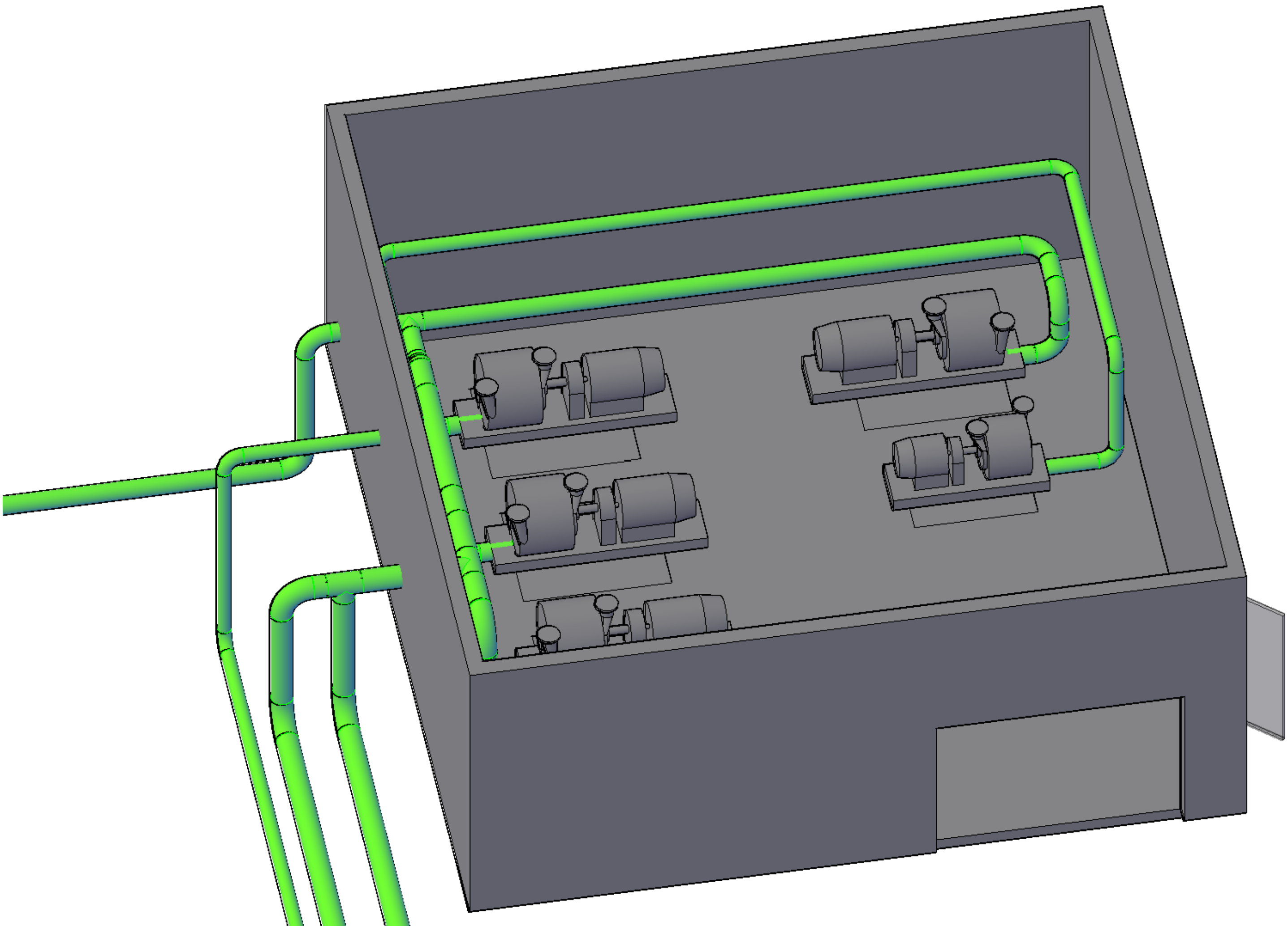
FILE NO: 2013-36.1
PLOT DATE: May 1, 2024



BLOWER BUILDING PLAN
SCALE: 1" = 5'



BLOWER BUILDING SECTION A-A
SCALE: 1" = 5'

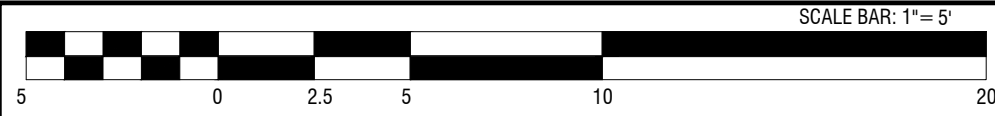


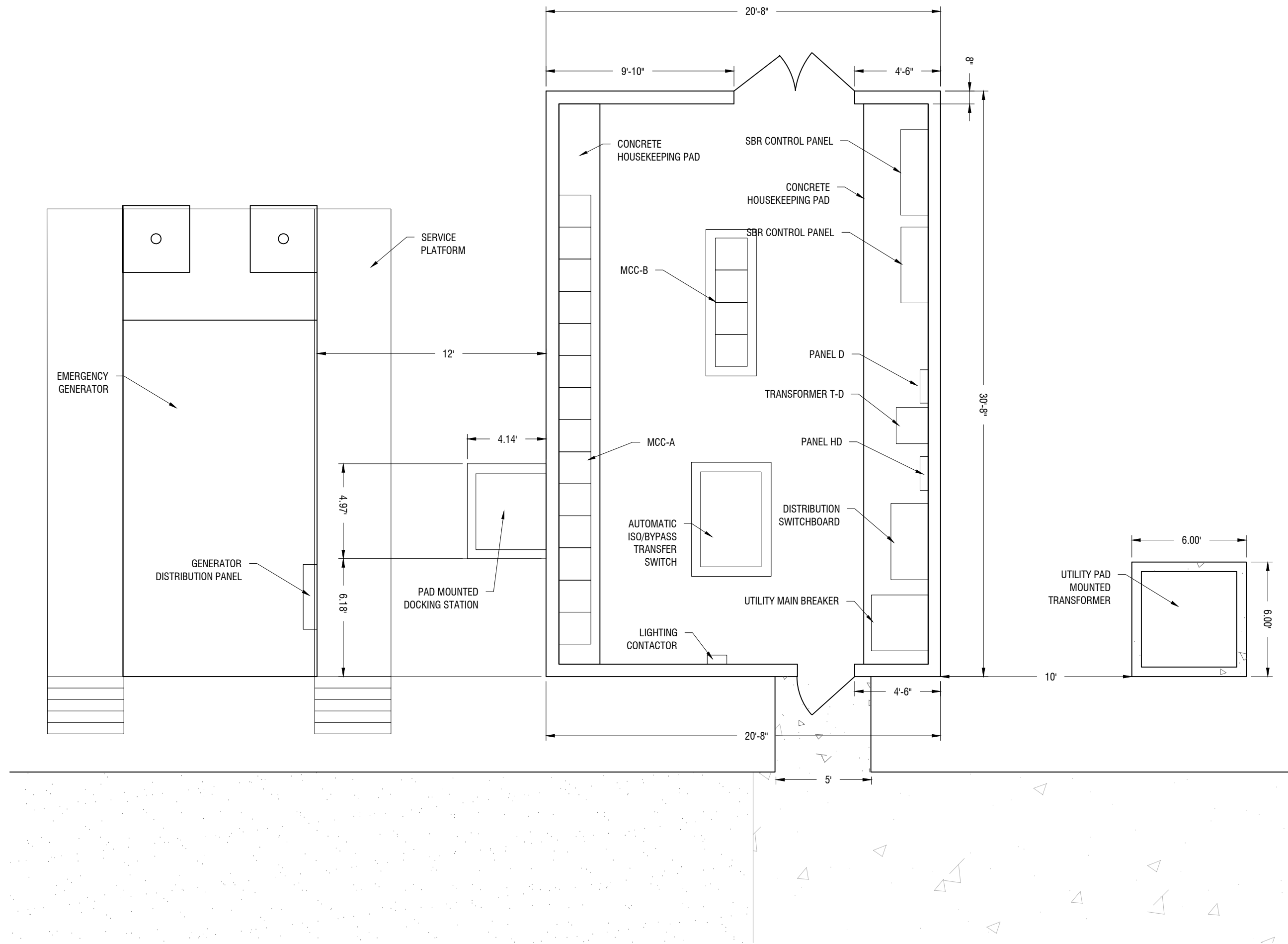
BLOWER BUILDING ISOMETRIC
NTS

AIR PIPING NOTES:

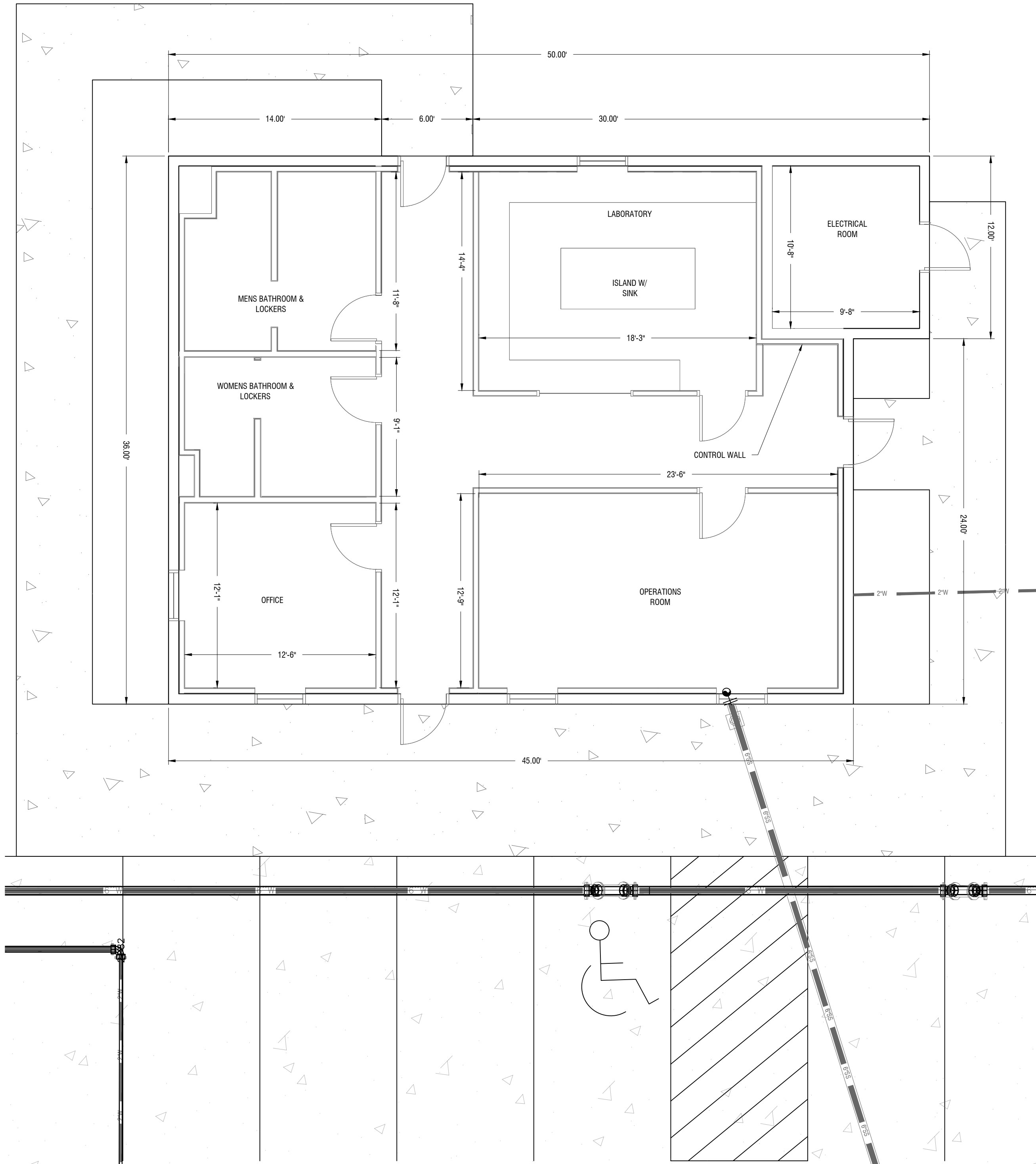
- AIR PIPING - SCHEDULE 10S STAINLESS STEEL
- FLANGES - 304 STAINLESS STEEL, 150# CLASS WITH NEOPRENE GASKET
- ALL AIR PIPING BELOW 8" MEASURED FROM FIN FLOOR WILL BE INSULATED WITH 3" INSULATION
- REAM ALL PIPE ENDS AND REMOVE BURRS.
- REMOVE SCALE AND DIRT, ON INSIDE AND OUTSIDE BEFORE ASSEMBLY.
- PREPARE PIPING CONNECTIONS WITH FLANGES, WHERE SHOWN.
- BUTT WELD PIPING NON-FLANGE PIPING AND FITTINGS.
- PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEN JOINING DISSIMILAR METALS.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS OR EQUIPMENT.
- PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.
- INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED
- INSTALL 1" THICK INSULATION ON ALL AIR PIPING BELOW 8" AFF.
- PLACE EXPANSION JOINTS IN EXTENDED POSITION WHEN PIPING IS INSTALLED.
- EXPANSION JOINT ALONG PIPE LENGTH AS SHOWN IN CHART BELOW.
- ALL DIMENSIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO MANUFACTURING OF AIR PIPING
- EXPANSION JOINT SPECIFICATION ARE AS FOLLOWS:
RESISTORFLEX # R6905-048WS3 - CONVOLUTE EXPANSION JOINT EVERY 25' FOR 3"
RESISTORFLEX # R6906-088WS5 - CONVOLUTE EXPANSION JOINT EVERY 40' FOR 6"
RESISTORFLEX # R6906-128WS5 - CONVOLUTE EXPANSION JOINT EVERY 40' FOR 8"

REVISIONS:	
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Water Pollution Control Plant	
BLOWER BUILDING AND AIR PIPING	
M19	
FILE NO: 2013-36.1	
PLOT DATE: May 1, 2024	

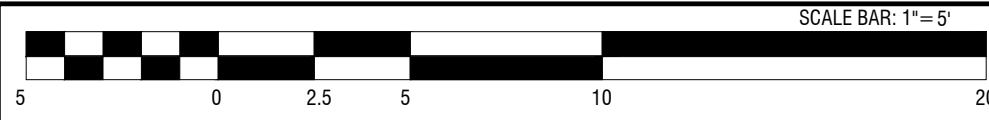




ELECTRICAL BUILDING PLAN
SCALE: 1" = 5'



OPERATIONS BUILDING PLAN
SCALE: 1" = 5'



REVISIONS:

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GEORGIA
REGISTERED
ENGINEER
MARCUS E. SACK

DATE: May 1, 2024

19
M.E. SACK
ENGINEERING
80

MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON

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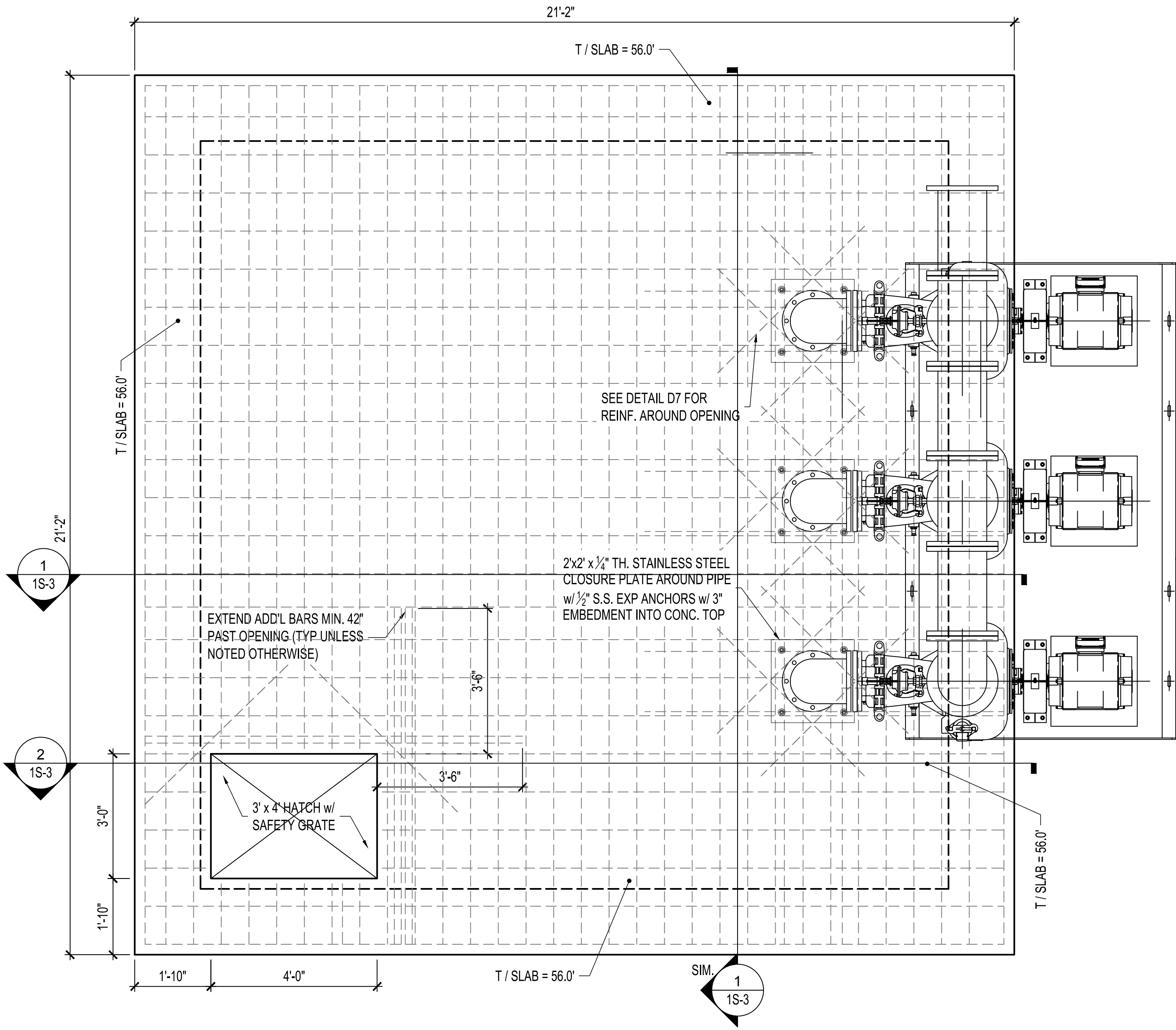
Water Pollution
Control Plant

ELECTRICAL &
OPERATIONS
BUILDINGS

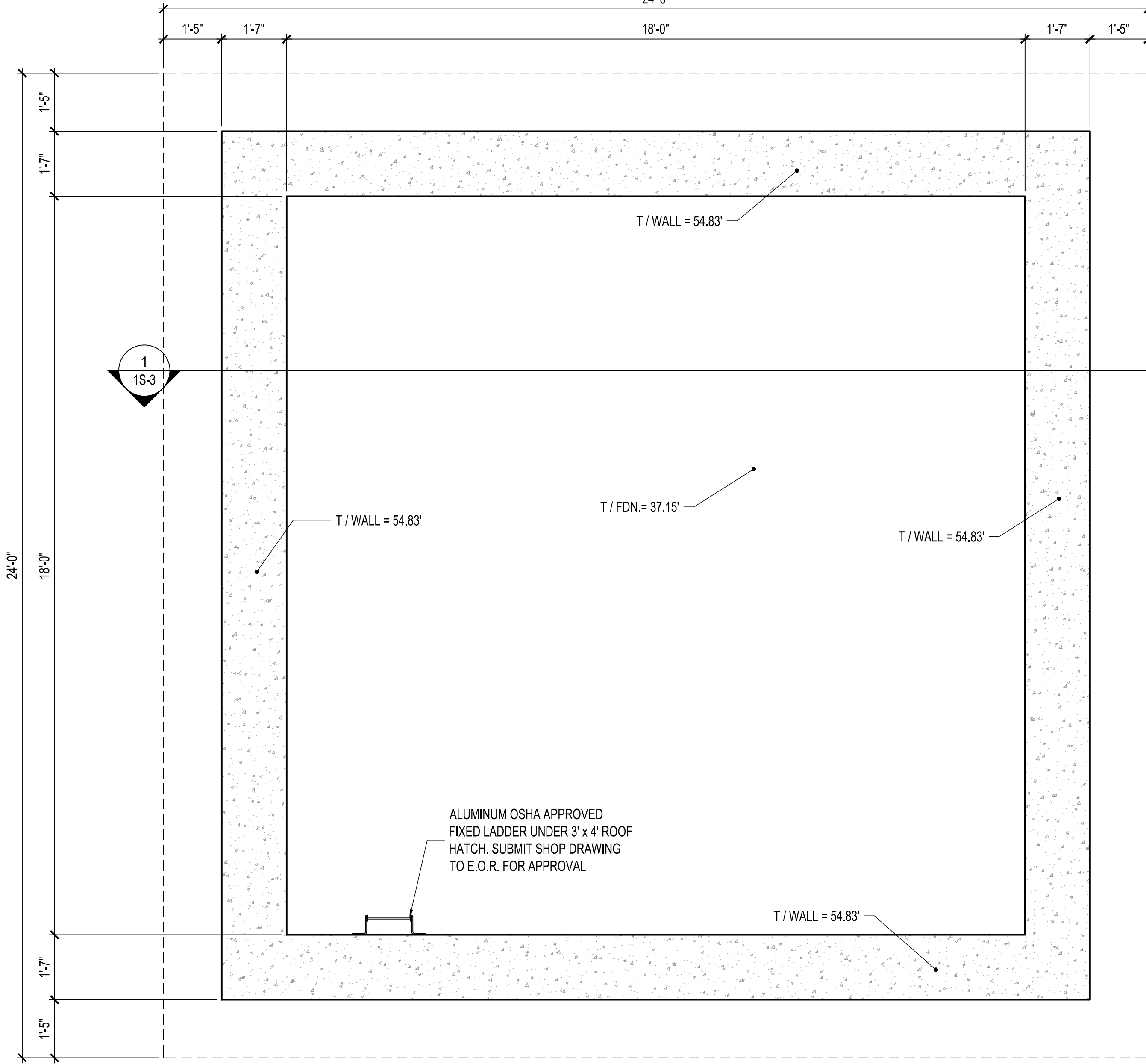
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FILE NO: 2013-36.1
PLOT DATE: May 1, 2024

NOTES:
1. ALL DIMENSIONS UNLESS OTHERWISE NOTED.
2. PRINTED BY: RALPH H. BOSWELL, DATE: 10/10/2019, 10:51 AM, DRAWING FILE: C:\Users\ralphh\OneDrive\Documents\1010102019\1010102019.dwg, LAST MODIFIED: Thursday, October 10, 2019 10:51 AM



2 INFLUENT PUMP STATION TOP SLAB REINFORCING PLAN
3/8"=1'-0"



1 INFLUENT PUMP STATION FOUNDATION PLAN
3/8"=1'-0"

CONCRETE NOTES	
1. MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS SHALL BE 4500 PSI FOR WALLS AND SLABS IN LIQUID CONTAINING VESSELS.	
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS SHALL BE 3000 PSI FOR CAISSONS AND SLABS-ON-GRADE.	
3. STRUCTURAL MEMBERS OF REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-11.	
4. PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS OF CONCRETE W/O EMBED ANGLES.	
5. PLACE ALL REBAR FOR WALLS & SLABS IN DIRECTIONS & LOCATIONS AS SHOWN IN TANK SECTIONS. DO NOT REVERSE LOCATIONS OF INSIDE/OUTSIDE BARS AT EACH FACE.	
6. CONCRETE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-11. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 75 CY OF CONCRETE USED FOR FOOTINGS. NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS. TEST REPORTS INDICATING (NON)COMPLIANCE SHALL BE PROVIDED TO THE OWNER, ENGINEER & CONTRACTOR. A COPY OF THE TEST REPORTS SHALL BE AVAILABLE AT THE JOBSITE. 4 INCH DIAMETER X 8 INCH TEST CYLINDERS ARE ACCEPTABLE.	

CONC REINF LAP LENGTH 4500 PSI (ACI 350-06)	
BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	18"
#4	24"
#5	30"
#6	35"
#7	51"
#8	59"
#9	66"
#10	73"

- FOUNDATION NOTES**
- DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION AND STRUCTURAL ENGINEER SHALL BE NOTIFIED IF THE ACTUAL SOIL BEARING PRESSURE IS LOWER THAN THE DESIGN SOIL PRESSURE. FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON A SOILS REPORT PREPARED BY TERRACON CONSULTANTS, INC. (PROJECT# ES165069).
 - DEWATER, UNDERCUT, & REPLACE MATERIAL BELOW FOOTING ELEVATIONS PER GEOTECH REPORT. GRANULAR BASE BELOW FOOTING SHALL BE #57 STONE.
 - PRIOR TO POURING CONCRETE, ALL DEBRIS, WATER, AND LOOSE EARTH SHALL BE REMOVED FROM THE FOUNDATION BED.
 - GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS, AND BACKFILLS PRIOR TO PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACKFILLS, ETC.
 - BACKFILL AGAINST WALLS SHALL BE DEPOSITED EVENLY AGAINST BOTH SIDES OF WALLS UNTIL THE LOWER FINAL GRADE IS REACHED. COMPACTION OF BACKFILL WITHIN 10 FEET OF WALLS SHOULD BE PERFORMED WITH HAND OPERATED EQUIPMENT. THE BACKFILLING OF UNDERGROUND STRUCTURES SHALL BE DONE W/ A MAX OF 4'-0" INCREMENTS ALL AROUND THE STRUCTURES.
 - PLACEMENT AND COMPACTION OF STRUCTURAL FILL SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER. COMPACTION SHALL BE 95% OF STANDARD PROCTOR.
 - WHERE ANY UTILITY LINES PASS UNDER A FOOTING, PROVIDE A PRE-CAST CONCRETE RELIEVING ARCH, A MINIMUM OF THREE TIMES THE DIAMETER OF THE UTILITY PIPE FOR PROTECTION.

- STRUCTURE NOTES**
- COORD ALL STRUCTURE & PIPING ELEVATIONS & DIMENSIONS W/ MECHANICAL DRAWINGS.
 - ALL CONDUIT SHALL BE MOUNTED EXTERNALLY ON STRUCTURE USING HANGERS. FOR ANY CONDUIT PROPOSED TO BE PLACED IN THE CONCRETE POUR, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING PLACEMENT OF ANY CONDUIT IN CONCRETE STRUCTURE.
 - COORDINATE ALL EXCAVATIONS W/ EXISTING STRUCTURES SO AS TO NOT UNDERMINE THEM. APPROPRIATE MEASURES SHALL BE TAKEN TO INSURE THAT EXISTING STRUCTURES ARE NOT UNDERMINED OR OTHERWISE DAMAGED DURING THE EXCAVATION OR CONSTRUCTION OF NEW STRUCTURES.
 - DESIGN LIVE LOAD FOR TOP SLAB = 250 PSF
 - SEISMIC DESIGN CRITERIA:
OCCUPANCY CATEGORY = IV
SEISMIC IMPORTANCE FACTOR (I_h) = 1.50
 $S_s = 0.127$ $S_1 = 0.067$
SITE CLASS = D
 $S_{DS} = 0.135$ $S_{D1} = 0.107$
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-05 TABLE 15.4-1 OR 15.4-2):
FLAT-BOTTOM GROUND SUPPORTED TANKS - REINFORCED NON-SLIDING BASE:
RESPONSE MODIFICATION FACTOR (R) = 2.0
SEISMIC RESPONSE COEFF. (C_s) = 0.2926
SEISMIC DESIGN CATEGORY = C 0.1029
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

- REINFORCING STEEL NOTES**
- SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
 - MATERIALS:
 - REINFORCING BARS SHALL COMPLY WITH ASTM A615 GRADE 60.
 - WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A82 AND A185.
 - REINFORCING BARS FOR WELDING SHALL COMPLY WITH ASTM A-706.
 - CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS INDICATED ON THE DRAWINGS BUT SHALL NOT BE LESS THAN THE FOLLOWING:
 - CONCRETE PLACED AGAINST EXPOSED EARTH (NOT FORMED) = 3"
 - FORMED SURFACES EXPOSED TO EARTH, LIQUIDS, OR WEATHER: SLABS & JOISTS W/ #5 BARS & SMALLER = 1 1/2" SLABS & JOISTS W/ #6 BARS & LARGER = 2" BEAMS, PIERS, COLUMNS, WALLS, FOOTINGS, & BASE SLABS = 2"
 - FORMED SURFACES NOT EXPOSED TO EARTH, LIQUIDS, OR WEATHER: SLABS & JOISTS = 3/4" BEAMS, PIERS, & COLUMNS = 1 1/2" WALLS = 3/4" FOOTINGS & BASE SLABS = 2"

OCONEE ENGINEERING L.L.C.
ATTORNEYS AT LAW
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P: (770) 313-0302 F: (770) 200-2650
E-MAIL: ADMIN@OCONEENGINEERING.COM

REGISTERED PROFESSIONAL ENGINEER
No. 27855
RALPH H. BOSWELL
10/10/2019

FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
1	10/10/2019	EPD/SUBMITAL	
2	10/10/2019	85% SET FOR REVIEW	
3	10/10/2019	85% SET FOR REVIEW	
4	10/10/2019	85% SET FOR REVIEW	
5	10/10/2019	85% SET FOR REVIEW	
6	10/10/2019	85% SET FOR REVIEW	
7	10/10/2019	85% SET FOR REVIEW	
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16	10/10/2019	85% SET FOR REVIEW	
17	10/10/2019	85% SET FOR REVIEW	

DESIGNED: FILE NAME: 0618102-1S-CORE
DRAWN: ORIGINAL DRAWING SIZE: 36"x24"
CHECKED: DATE: 6-14-2019
APPROVED:

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**INFLUENT PUMP STATION
FOUNDATION PLAN,
TOP SLAB PLAN, &
GENERAL NOTES**

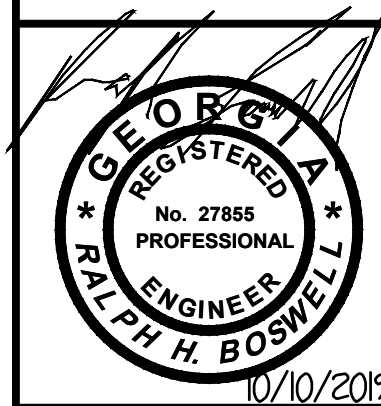
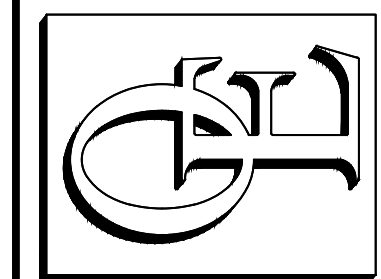
1S-1
SHEET 1 OF 04



O'CONNOR
ENGINEERING L.L.C.
STRUCTURAL
ATHENS, GA /
LAKE O'CONNOR

P: (770) 313-0302 F: (770) 200-2650
e-mail: admin@oconneering.com

P.O. Box 116,
Greensboro, GA, 30642



FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON GEORGIA
CHARLTON COUNTY, GEORGIA

[illegible]

FILE PROJECT NO: 0E18132
 FILE NAME: 0E18132-S-CORE
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 DATE: 6-14-2019
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INFLUENT PUMP STATION

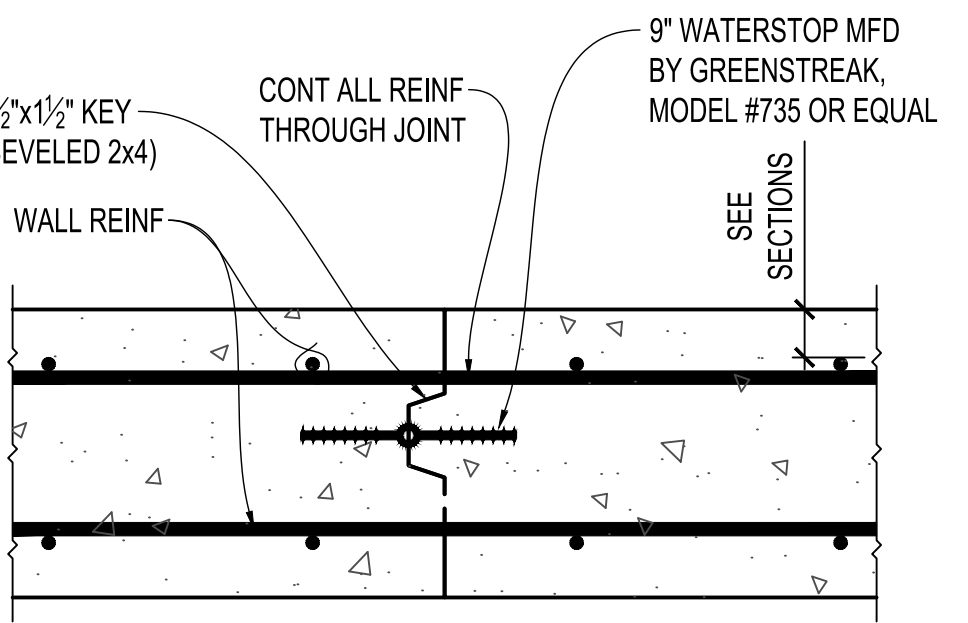
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SECTION

1S-2
SHEET 2 OF 04

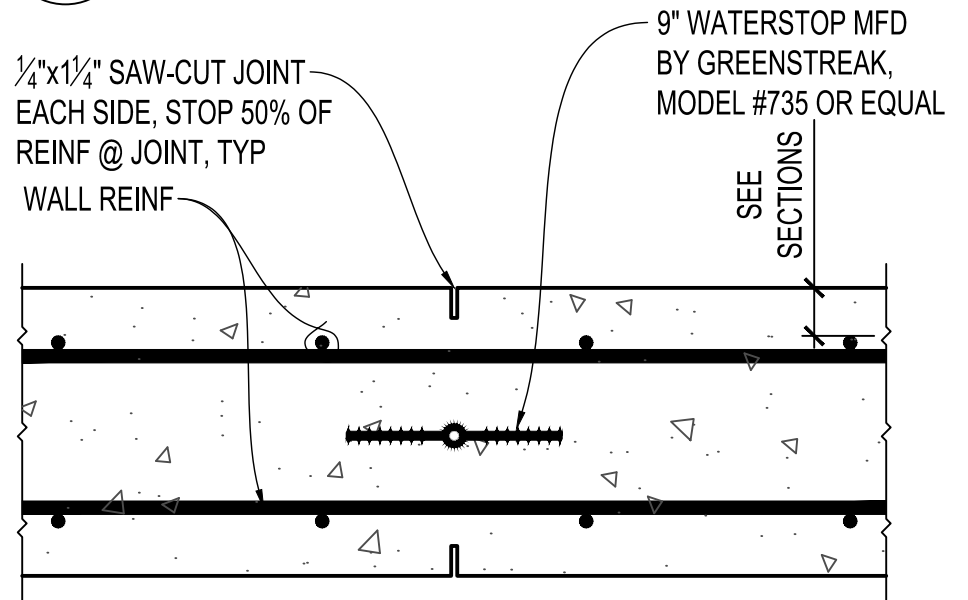


1S-3
SHEET 3 OF 04

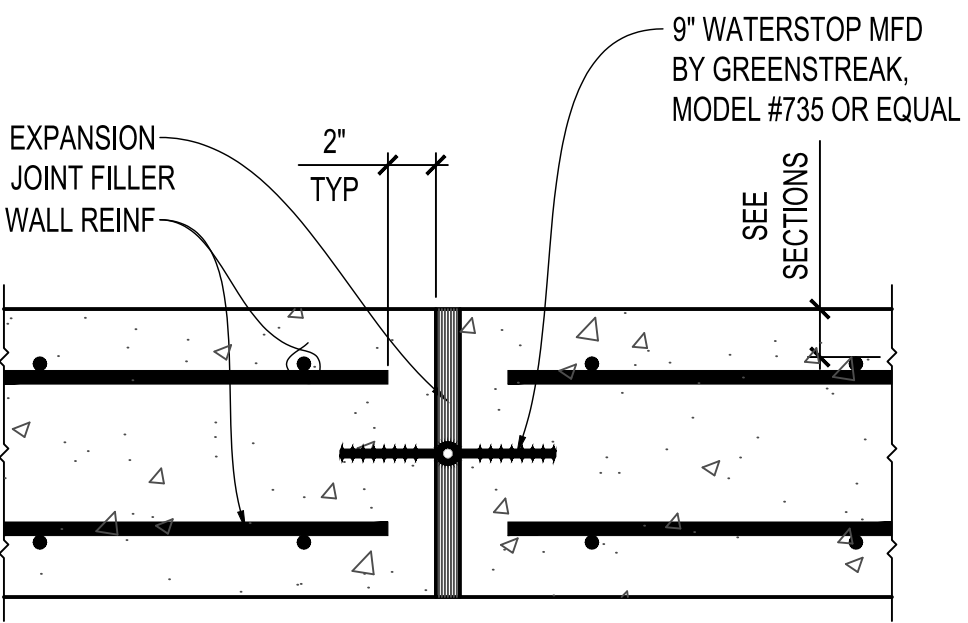
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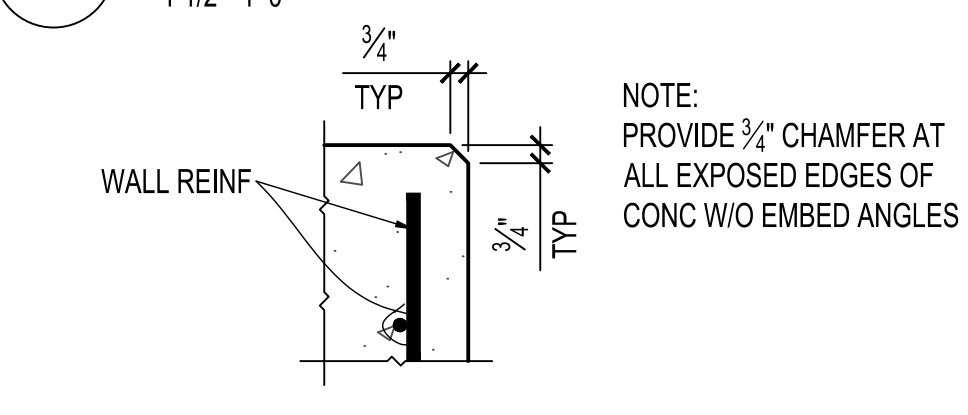
D1 CONC. CONST. JOINT DETAIL
1 1/2"=1'-0"



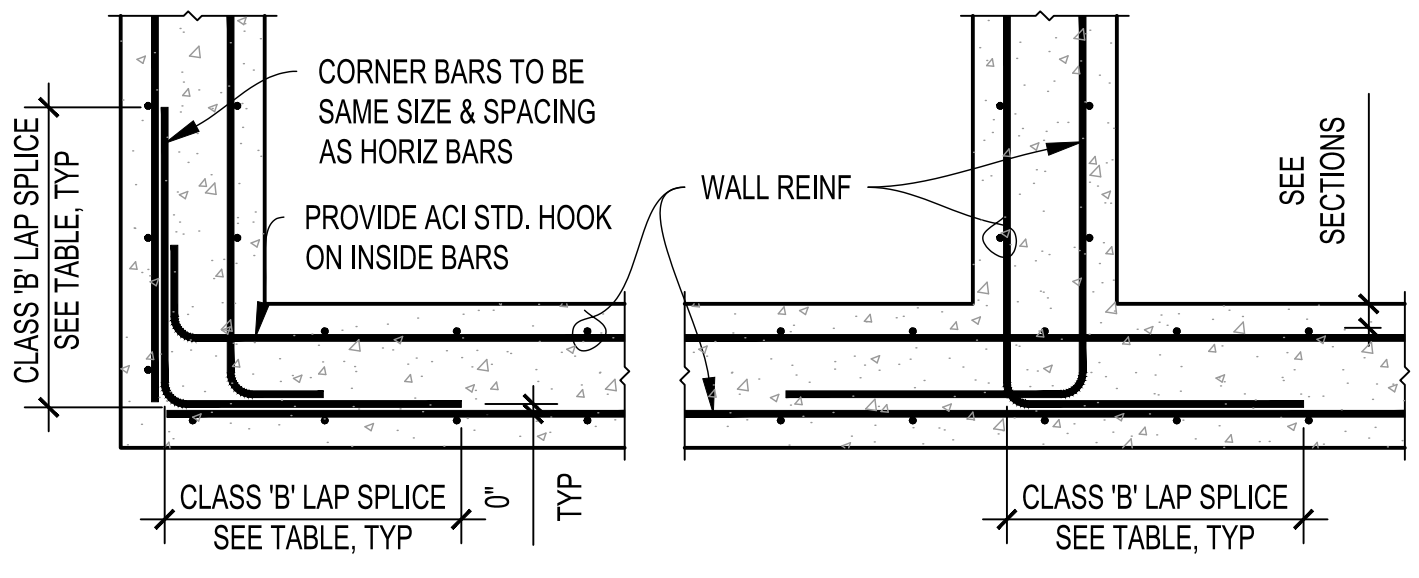
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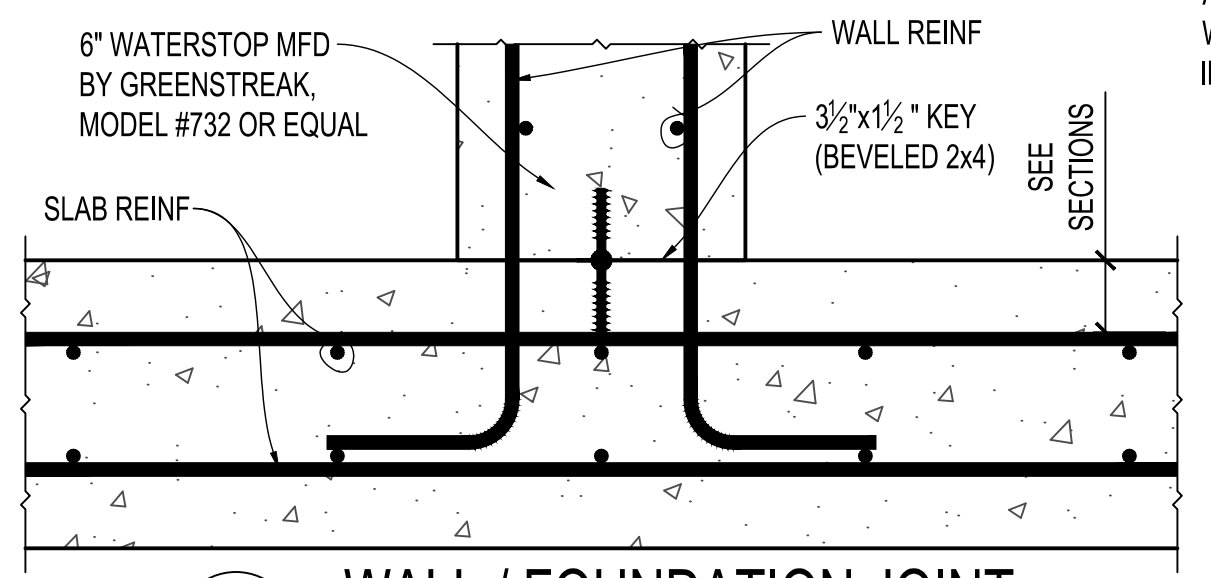
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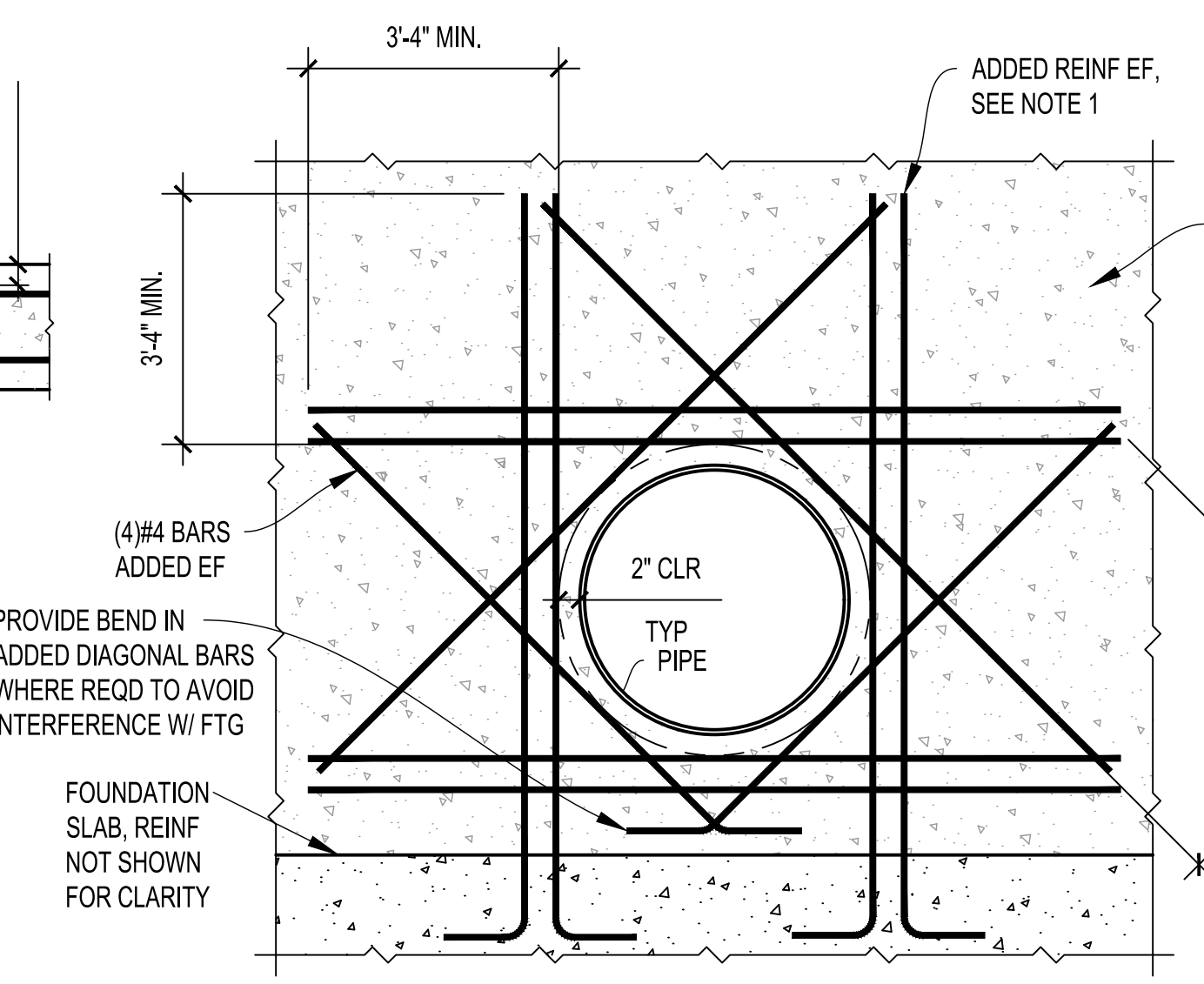
D4 CONC. CHAMFER DETAIL
1 1/2"=1'-0"



D5 TYP REINF @ WALL INTERSECTIONS
N.T.S.

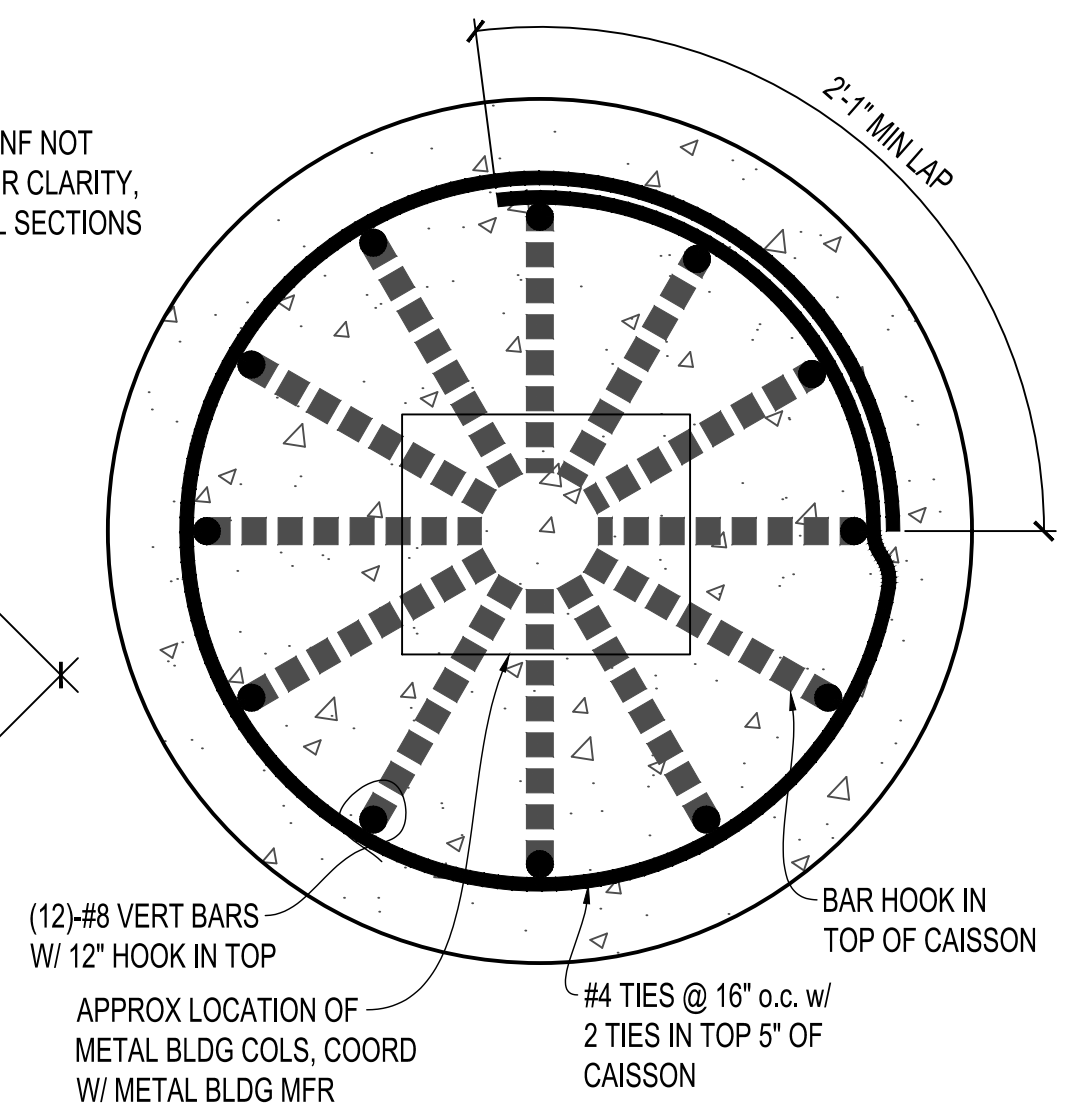


D6 WALL / FOUNDATION JOINT
1 1/2"=1'-0"



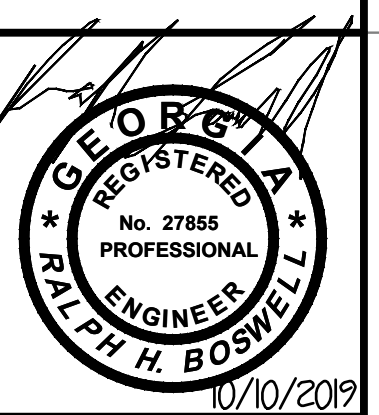
- NOTES:
1. THE EQUIVALENT NUMBER OF VERT & HORIZ BARS INTERRUPTED BY OPENINGS SHALL BE PROVIDED BY PLACING 1/2 OF BARS ON EACH SIDE OF THE OPENING @3"OC.
 2. MAINTAIN NOT LESS THAN 1/2" CLEAR BETWEEN ADJACENT PARALLEL BARS.

D7 TYP WALL REINF @ PIPE OPENING
N.T.S.



D8 CAISSON REINFORCING
N.T.S.

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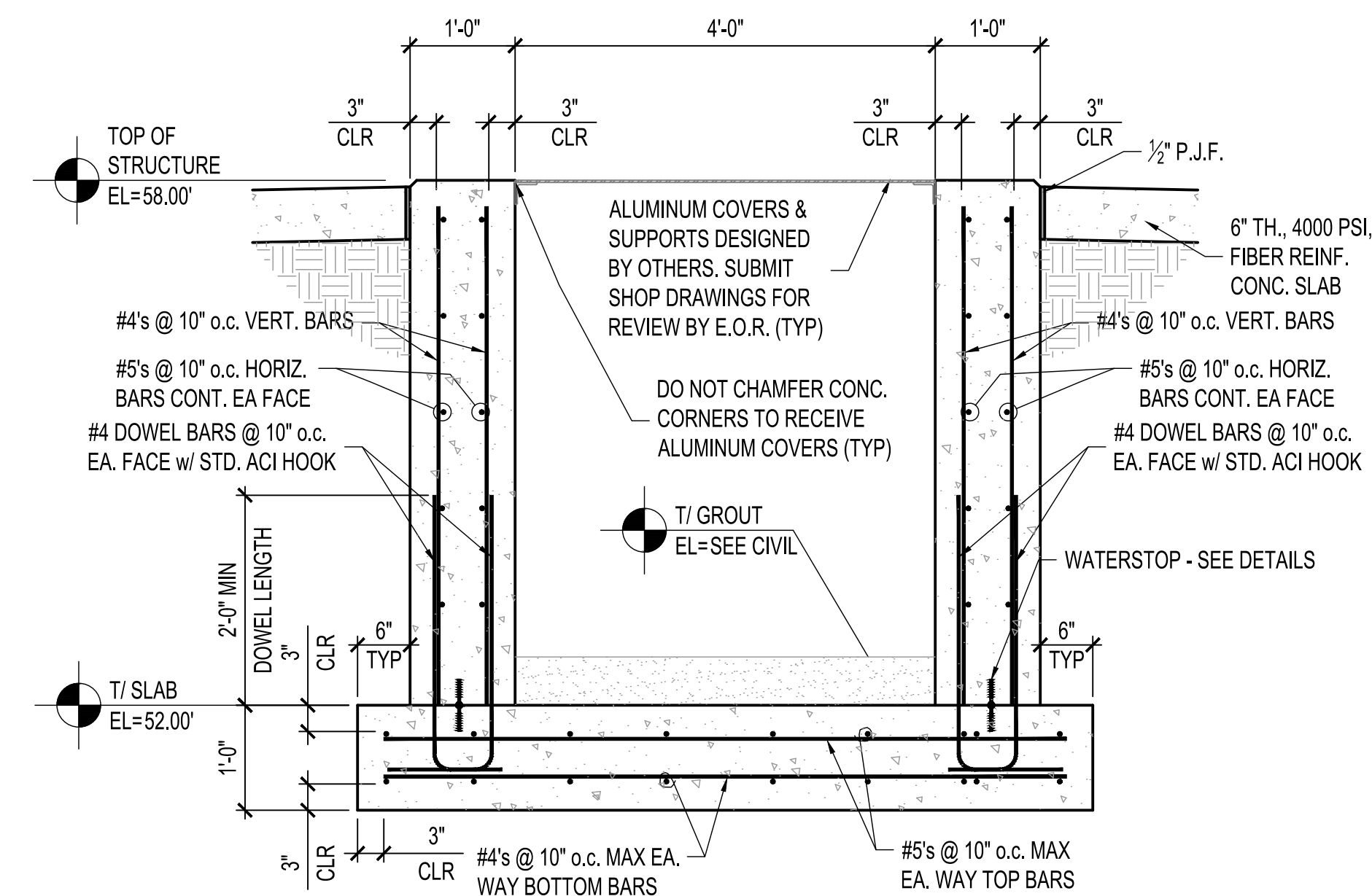
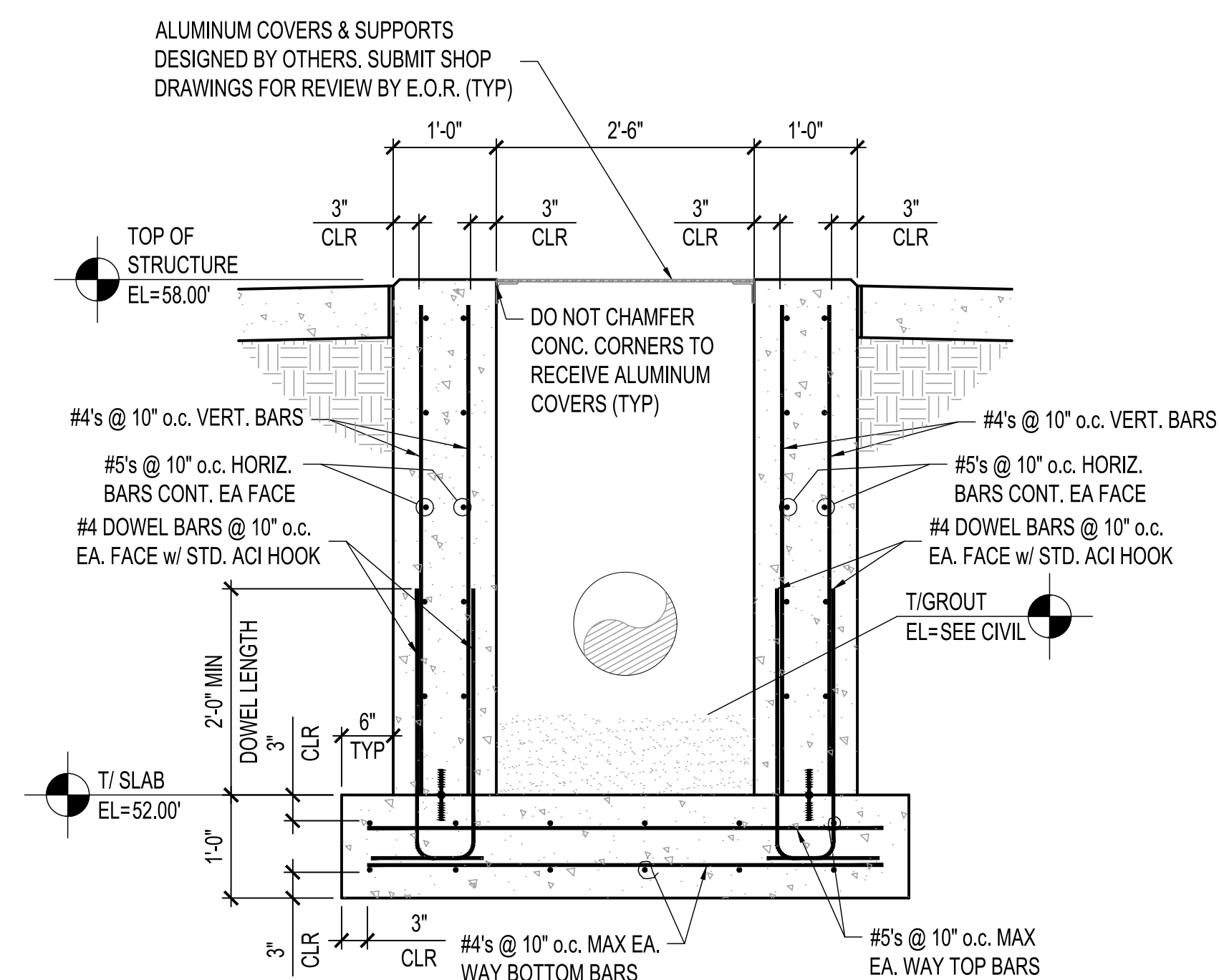
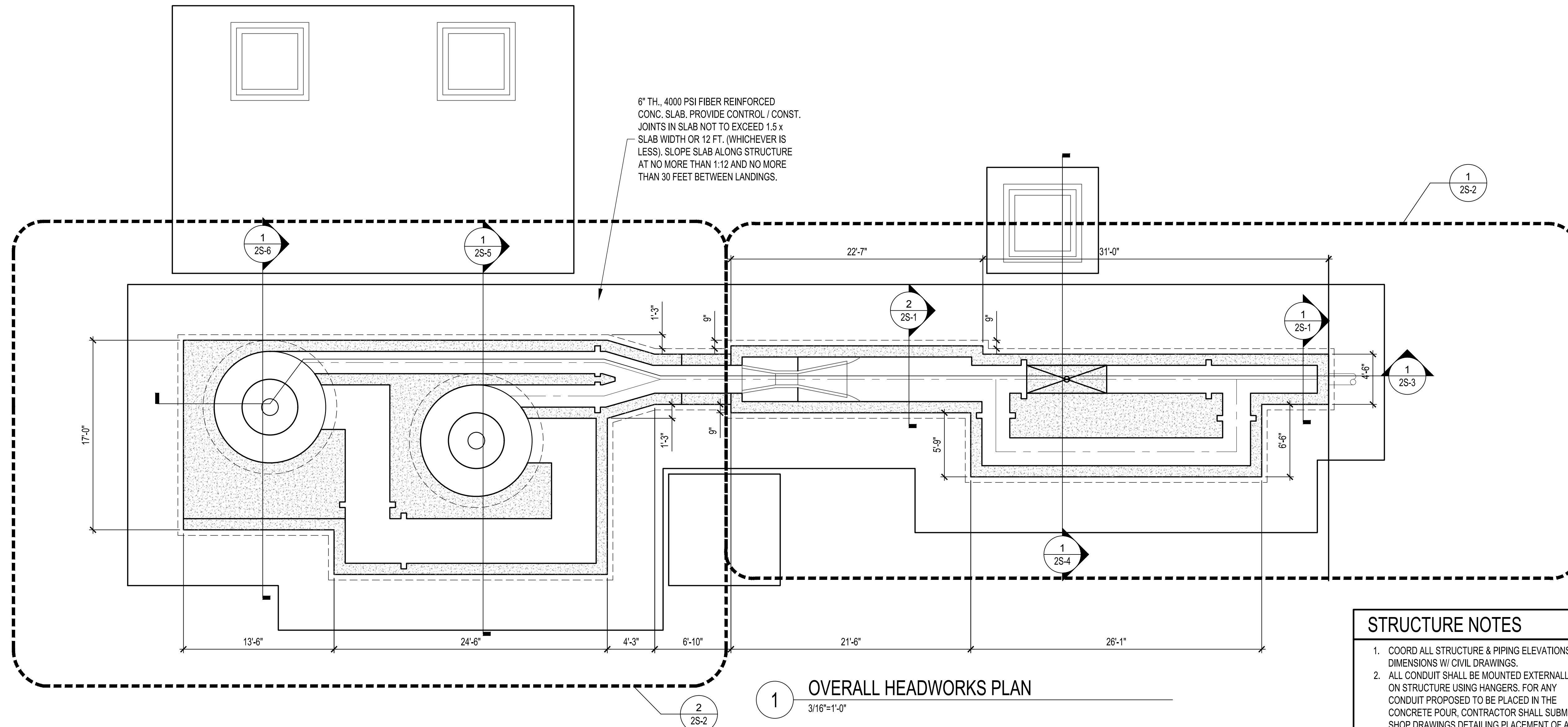


FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
	10-10-2019		EPD SUBMITTAL
	07-22-2019		85% SET FOR REVIEW
	08-14-2019		85% SET FOR REVIEW

DESIGNED: 06/18/2019
FILE NAME: 06/18/2019-15-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 6-14-2019
CHECKED:
APPROVED:
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INFLUENT PUMP STATION
DETAILS



FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION AND STRUCTURAL ENGINEER SHALL BE NOTIFIED IF THE ACTUAL SOIL BEARING PRESSURE IS LOWER THAN THE DESIGN SOIL PRESSURE. FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON A SOILS REPORT PREPARED BY TERRACON CONSULTING, INC. (PROJECT# ES1650609).
2. DEWATER, UNDERCUT, & REPLACE MATERIAL BELOW FOOTING ELEVATIONS PER GEOTECH REPORT. GRANULAR BASE BELOW FOOTING SHALL BE #57 STONE.
3. PRIOR TO POURING CONCRETE, ALL DEBRIS, WATER, AND LOOSE EARTH SHALL BE REMOVED FROM THE FOUNDATION BED.
4. GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS, AND BACKFILLS PRIOR TO PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACKFILLS, ETC.
5. BACKFILL AGAINST WALLS SHALL BE DEPOSITED EVENLY AGAINST BOTH SIDES OF WALLS UNTIL THE LOWER FINAL GRADE IS REACHED. COMPACTION OF BACKFILL WITHIN 10 FEET OF WALLS SHOULD BE PERFORMED WITH HAND OPERATED EQUIPMENT. THE BACKFILLING OF UNDERGROUND STRUCTURES SHALL BE DONE W/ A MAX OF 4'-0" INCREMENTS ALL AROUND THE STRUCTURES.
6. PLACEMENT AND COMPACTION OF STRUCTURAL FILL SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER. COMPACTION SHALL BE 95% OF STANDARD PROCTOR.
7. WHERE ANY UTILITY LINES PASS UNDER A FOOTING, PROVIDE A PRE-CAST CONCRETE RELIEFING ARCH, A MINIMUM OF THREE TIMES THE DIAMETER OF THE UTILITY PIPE FOR PROTECTION.

CONCRETE NOTES

1. MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS SHALL BE 4500 PSI FOR WALLS AND SLABS IN LIQUID CONTAINING VESSELS.
2. STRUCTURAL MEMBERS OF REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-11.
3. PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS OF CONCRETE W/O EMBED ANGLES.
4. PLACE ALL REBAR FOR WALLS & SLABS IN DIRECTIONS & LOCATIONS AS SHOWN IN TANK SECTIONS. DO NOT REVERSE LOCATIONS OF INSIDE/OUTSIDE BARS AT EACH FACE.
5. CONCRETE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-11. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 75 CY OF CONCRETE USED FOR FOOTINGS, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS. TEST REPORTS INDICATING (NON) COMPLIANCE SHALL BE PROVIDED TO THE OWNER, ENGINEER & CONTRACTOR. A COPY OF THE TEST REPORTS SHALL BE AVAILABLE AT THE JOBSITE. A 1 INCH DIAMETER X 8 INCH TEST CYLINDERS ARE ACCEPTABLE.

STRUCTURE NOTES

1. COORD ALL STRUCTURE & PIPING ELEVATIONS & DIMENSIONS W/ CIVIL DRAWINGS.
2. ALL CONDUIT SHALL BE MOUNTED EXTERNALLY ON STRUCTURE USING HANGERS. FOR ANY CONDUIT PROPOSED TO BE PLACED IN THE CONCRETE POUR, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING PLACEMENT OF ANY CONDUIT IN CONCRETE STRUCTURE.
3. COORDINATE ALL EXCAVATIONS W/ EXISTING STRUCTURES SO AS TO NOT UNDERMINE THEM. APPROPRIATE MEASURES SHALL BE TAKEN TO INSURE THAT EXISTING STRUCTURES ARE NOT UNDERMINED OR OTHERWISE DAMAGED DURING THE EXCAVATION OR CONSTRUCTION OF NEW STRUCTURES.
4. SEISMIC DESIGN CRITERIA:
 - OCCUPANCY CATEGORY = IV
 - SEISMIC IMPORTANCE FACTOR (I_E) = 1.50
 - $S_D = 0.127$ $S_1 = 0.067$
 - SITE CLASS = D
 - $S_{DS} = 0.135$ $S_{D1} = 0.107$
 - BASIC SEISMIC-FORCE-RESISTING SYSTEM
(PER ASCE 7-05 TABLE 15.4-1 OR 15.4-2):
 - FLAT-BOOTHED GROUND SUPPORTED
 - TANKS - REINFORCED NON-SLIDING BASE:
 - RESPONSE MODIFICATION FACTOR (R) = 2.0
 - SEISMIC RESPONSE COEFF. (C_S) = 0.2926
 - SEISMIC DESIGN CATEGORY = C 0.1029
 - ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

REINFORCING STEEL NOTES

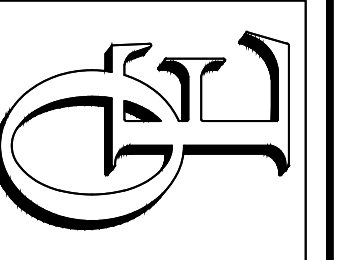
1. SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
2. MATERIALS:
 - 2.1. REINFORCING BARS SHALL COMPLY WITH ASTM A615 GRADE 60.
 - 2.2. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A82 AND A186.
 - 2.3. REINFORCING BARS FOR WELDING SHALL COMPLY WITH ASTM A-706.
3. CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS INDICATED ON THE DRAWINGS BUT SHALL NOT BE LESS THAN THE FOLLOWING:
 - 3.1. CONCRETE PLACED AGAINST EXPOSED EARTH (NOT FORMED) = 3"
 - 3.2. FORMED SURFACES EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
SLABS & JOISTS W/ #5 BARS & SMALLER = $\frac{1}{2}$ "
SLABS & JOISTS W/ #6 BARS & LARGER = 2"
BEAMS, PIERS, COLUMNS, WALLS, FOOTINGS, & BASE SLABS = 2"
 - 3.3. FORMED SURFACES NOT EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
SLABS & JOISTS = $\frac{3}{4}$ "
BEAMS, PIERS, & COLUMNS = $\frac{1}{2}$ "
WALLS = $\frac{1}{4}$ "
FOOTINGS & BASE SLABS = 2"

CONC REINF LAP LENGTH	
4500 PSI (ACI 350-06)	
BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	18"
#4	24"
#5	30"
#6	35"
#7	51"
#8	59"
#9	66"
#10	73"

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Greensboro, GA, 30642



FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON GEORGIA
CHARLTON COUNTY, GEORGIA

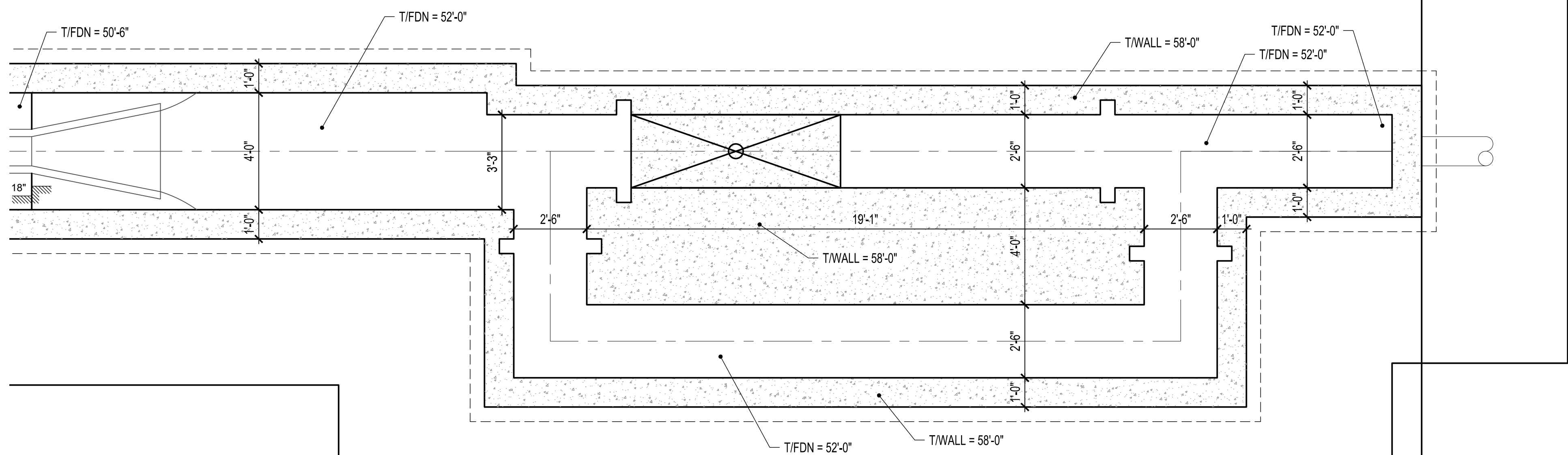
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DATE: 6-14-2019	APPROVED:

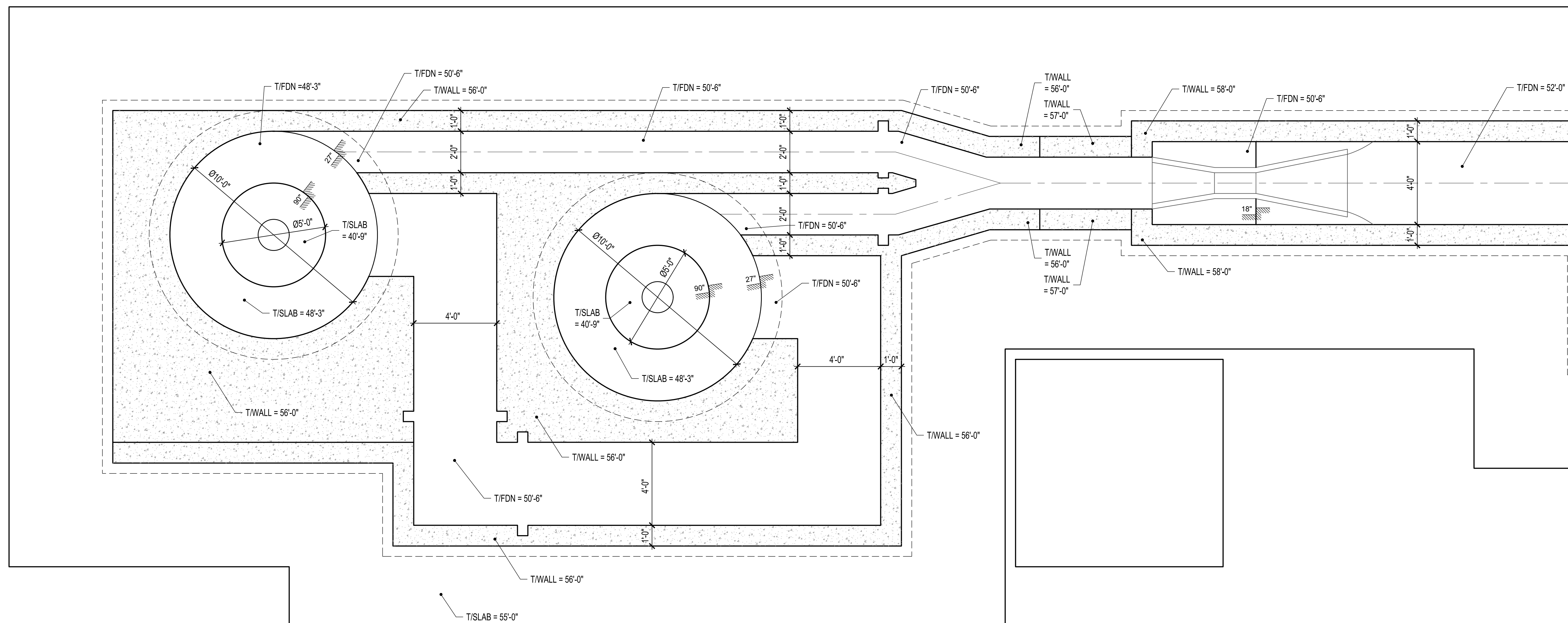
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ADWORKS
ERALL HEADWORKS
AN & SECTIONS

2S-1
SHEET 1 OF 7



1 ENLARGED UPSTREAM HEADWORKS PLAN
3/8"=1'-0"

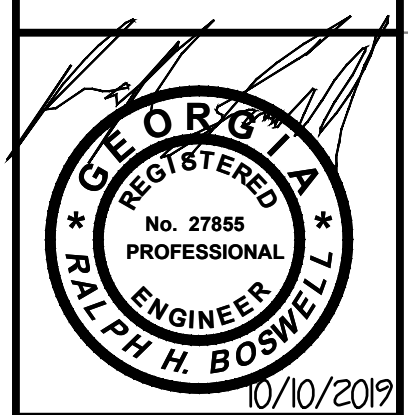


2 ENLARGED DOWNSTREAM HEADWORKS PLAN
3/8"=1'-0"

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Greensboro, GA 30642



FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

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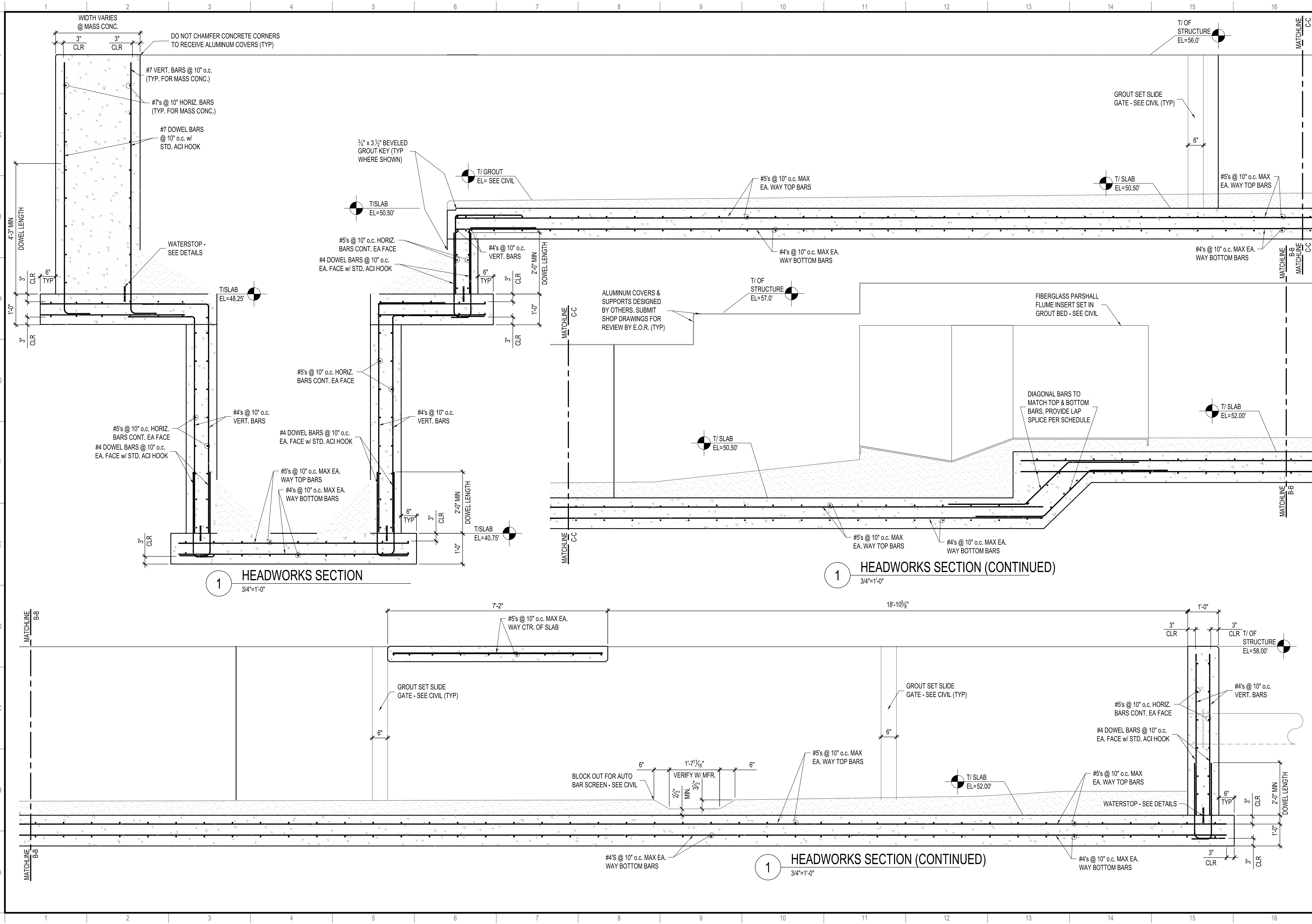
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HEADWORKS ENLARGED UPSTREAM & DOWNSTREAM HEADWORKS PLANS

2S-2
SHEET 2 OF 7

DATE: 06/10/2019 10:25:45 AM
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CHECKED BY: RALPH BOSWELL
DATE: 06/14/2019
PROJECT: 18132-25-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 06/14/2019
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e-mail: admin@oconeengineering.com

REGISTERED PROFESSIONAL ENGINEER
No. 27855
RALPH H. BOSWELL
10/10/2019

FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
	06/10/2019		EPD SUBMITTAL
	07/23/2019		85% SET FOR REVIEW
	08/14/2019		85% SET FOR REVIEW
	08/14/2019		85% SET FOR REVIEW

DESIGNED: 18132-25-CORE
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CHECKED: 36"x24"
DATE: 06/14/2019

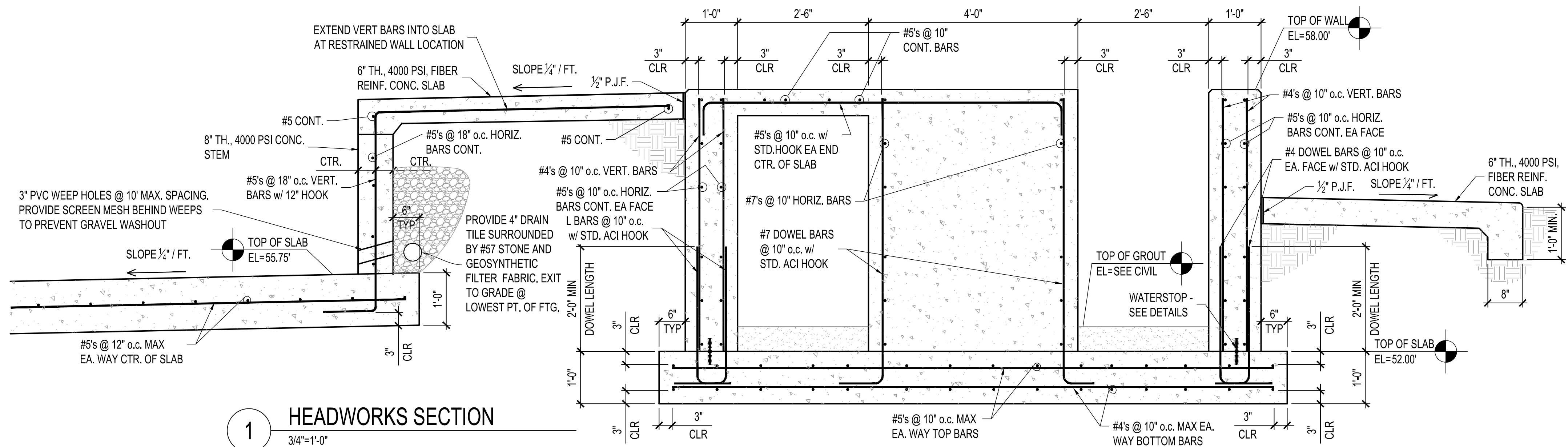
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HEADWORKS

SECTIONS

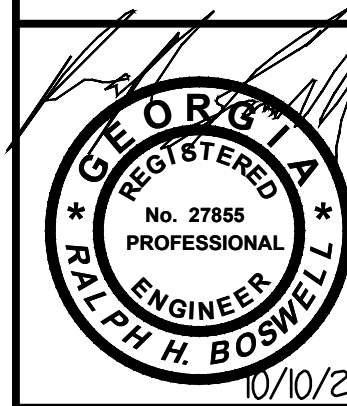
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SHEET 3 OF 7

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CHECKED BY: RALPH BOSWELL
DATE: 10/10/2019
PROJECT: 18132-2S-CORE
SHEET: 2S-4
PRINTED BY: RALPH BOSWELL



1 HEADWORKS SECTION
3/4"=1'-0"

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FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON GEORGIA
CHARLTON COUNTY, GEORGIA

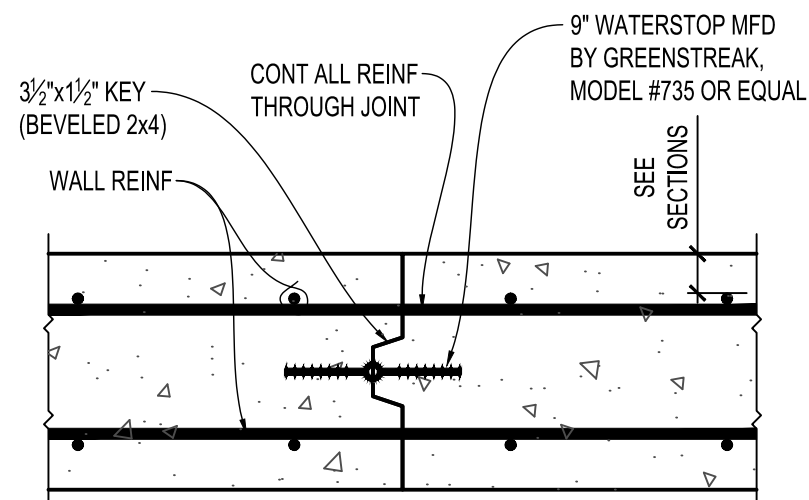
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18-10-2019	10/10/2019	85% SET FOR REVIEW	

DESIGNED: 18132-2S-CORE
FILE NAME: 18132-2S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 6-14-2019
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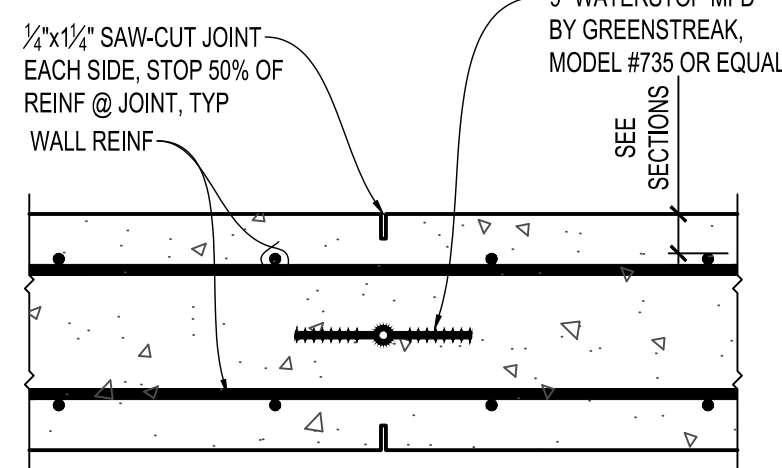
HEADWORKS
SECTIONS

2S-4
SHEET 4 OF 7

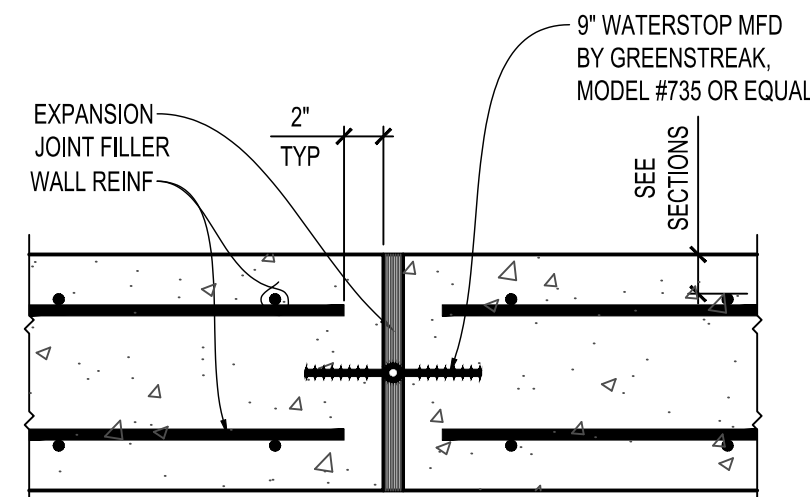
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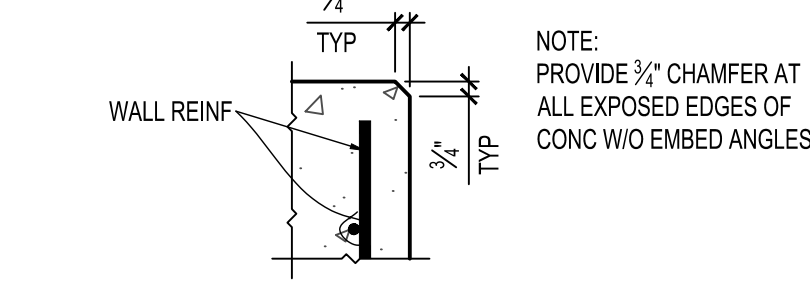
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1 1/2"=1'-0"



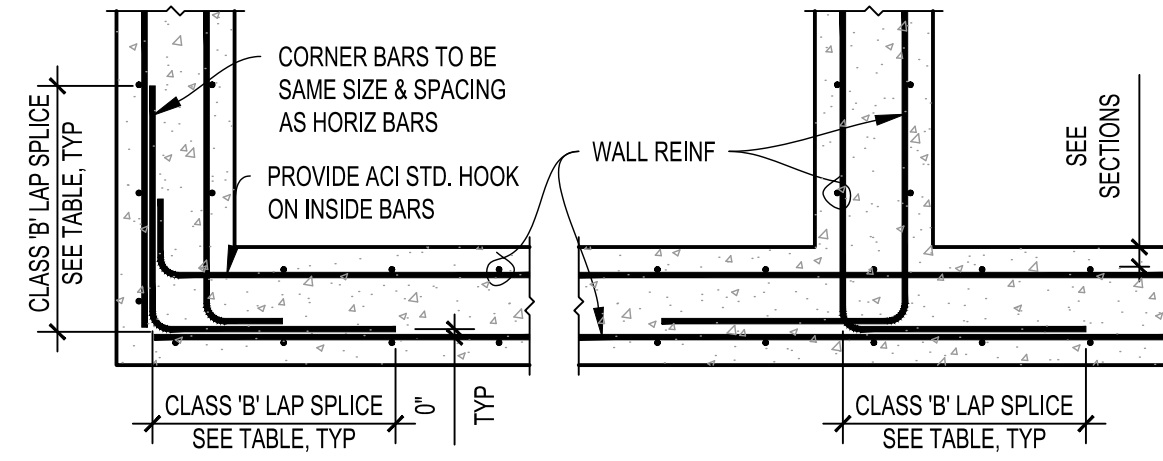
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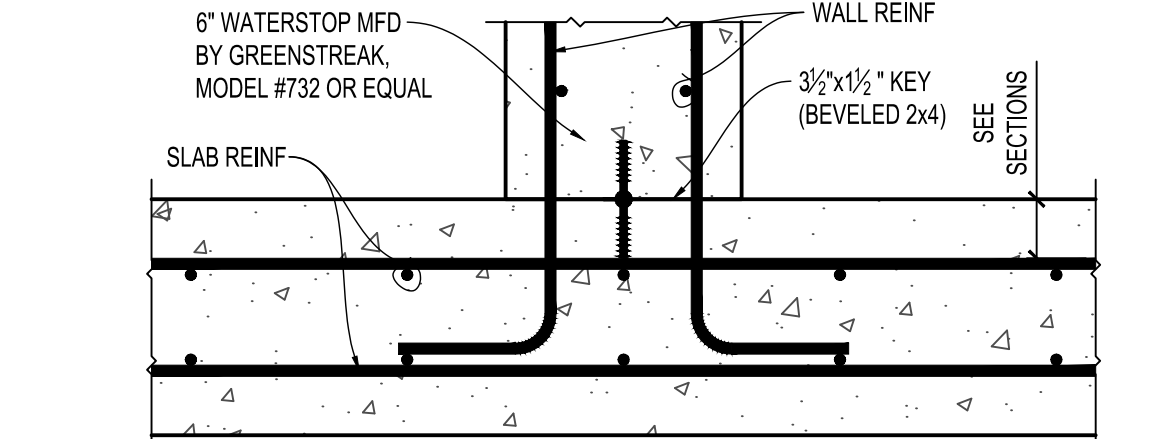
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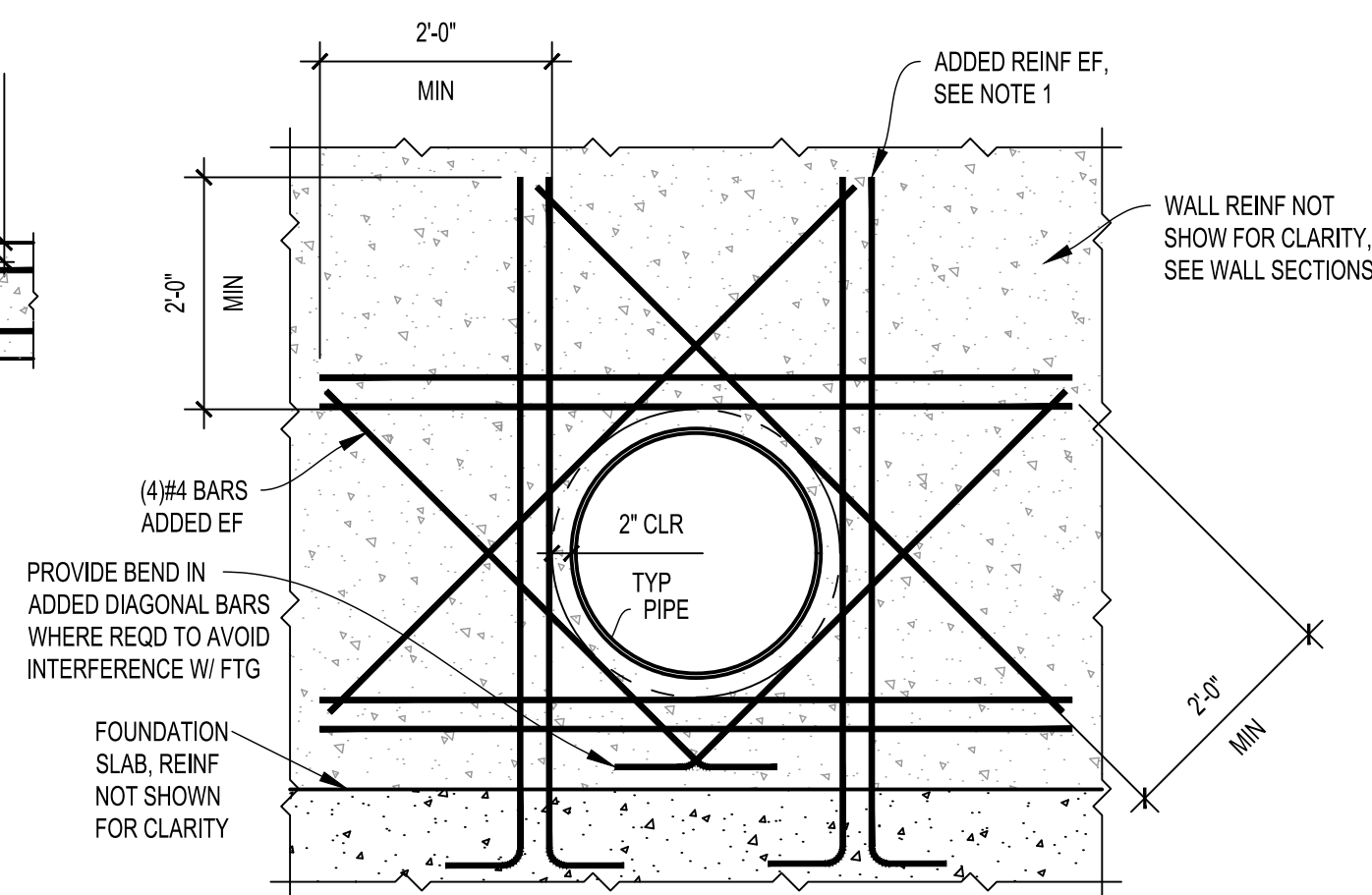
D4 CONC. CHAMFER DETAIL
1 1/2"=1'-0"



D5 TYP REINF @ WALL INTERSECTIONS
N.T.S.

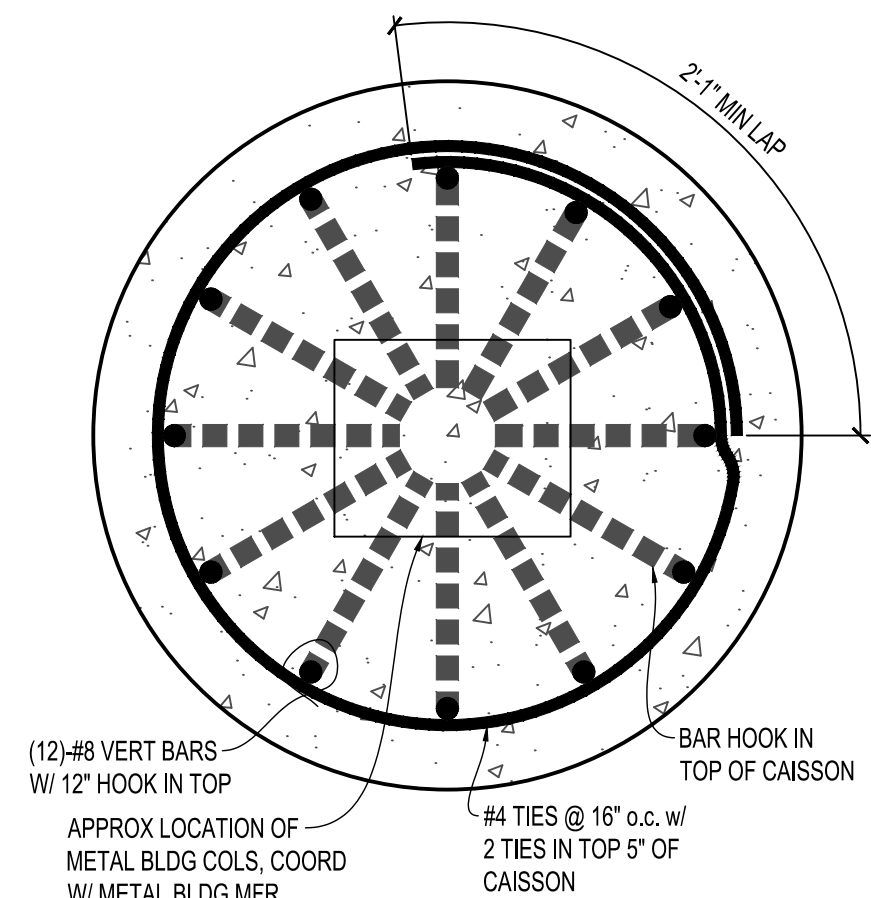


D6 WALL / FOUNDATION JOINT
1 1/2"=1'-0"



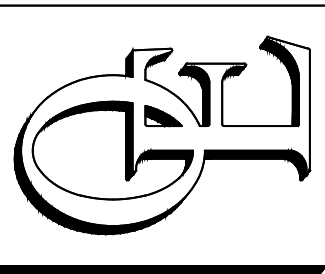
- NOTES:
1. THE EQUIVALENT NUMBER OF VERT & HORIZ BARS INTERRUPTED BY OPENINGS SHALL BE PROVIDED BY PLACING 1/2 OF BARS ON EACH SIDE OF THE OPENING @ 3"OC.
 2. MAINTAIN NOT LESS THAN 1/2" CLEAR BETWEEN ADJACENT PARALLEL BARS.

D7 TYP WALL REINF @ PIPE OPENING
N.T.S.



D8 CAISSON REINFORCING
N.T.S.

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FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
	10-10-2019		EPD SUBMITTAL
	07-22-2019		85% SET FOR REVIEW
	06-14-2019		85% SET FOR REVIEW

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HEADWORKS
DETAILS

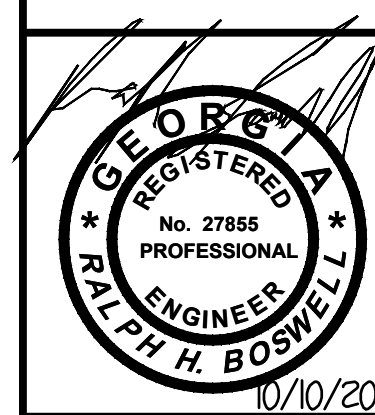
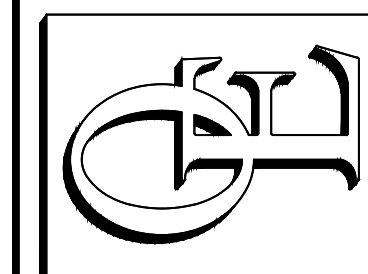


CONCRETE NOTES

1. MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS SHALL BE 4500 PSI FOR WALLS AND SLABS IN LIQUID CONTAINING VESSELS.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS SHALL BE 3000 PSI FOR CAISSONS AND SLABS-ON-GRADE.
3. STRUCTURAL MEMBERS OF REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-11.
4. PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS OF CONCRETE W/O EMBED ANGLES.
5. PLACE ALL REBAR FOR WALLS & SLABS IN DIRECTIONS & LOCATIONS AS SHOWN IN TASK SECTIONS. DO NOT REVERSE LOCATIONS OF INSIDE/OUTSIDE BARS AT EACH FACE.
6. CONCRETE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-11. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 75 CY OF CONCRETE USED FOR FOOTINGS, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS. TEST REPORTS INDICATING (NON)COMPLIANCE SHALL BE PROVIDED TO THE OWNER, ENGINEER & CONTRACTOR. A COPY OF THE TEST REPORTS SHALL BE AVAILABLE AT THE JOBSITE. 4 INCH DIAMETER X 8 INCH TEST CYLINDERS ARE ACCEPTABLE.

REINFORCING STEEL NOTES

1. SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
2. MATERIALS:
 - 2.1. REINFORCING BARS SHALL COMPLY WITH ASTM A615 GRADE 60.
 - 2.2. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A82 AND A185.
 - 2.3. REINFORCING BARS FOR WELDING SHALL COMPLY WITH ASTM A-706.
3. CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS INDICATED ON THE DRAWINGS BUT SHALL NOT BE LESS THAN THE FOLLOWING:
 - 3.1. CONCRETE PLACED AGAINST EXPOSED EARTH (NOT FORMED) = 3"
 - 3.2. FORMED SURFACES EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
SLABS & JOISTS W/ #5 BARS & SMALLER = $1\frac{1}{2}$ "
SLABS & JOISTS W/ #6 BARS & LARGER = 2"
BEAMS, PIERS, COLUMNS, WALLS, FOOTINGS, & BASE SLABS = 2"
 - 3.3. FORMED SURFACES NOT EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
SLABS & JOISTS = $1\frac{1}{4}$ "
BEAMS, PIERS, & COLUMNS = $1\frac{1}{2}$ "
WALLS = $1\frac{1}{4}$ "
FOOTINGS & BASE SLABS = 2"



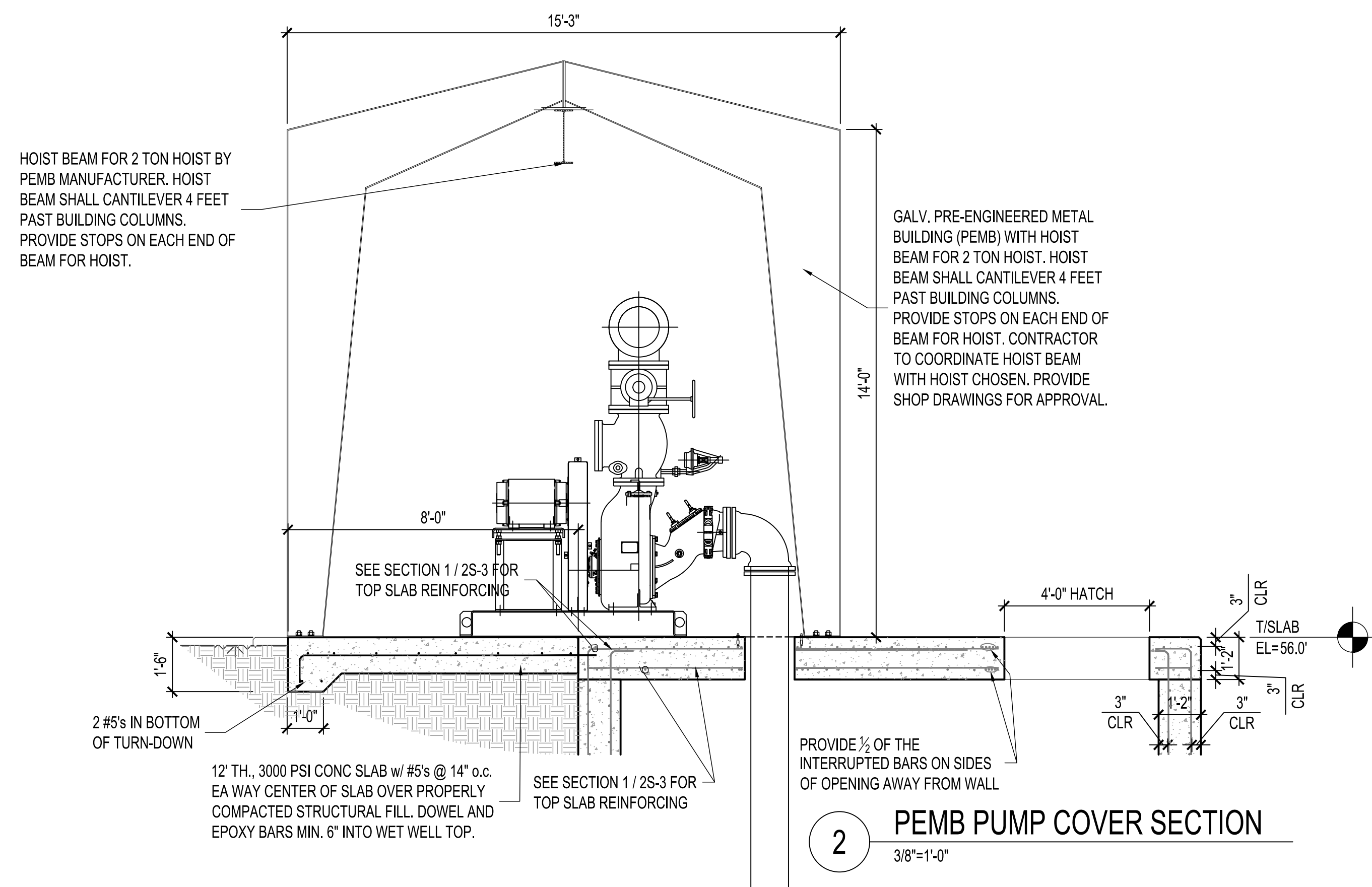
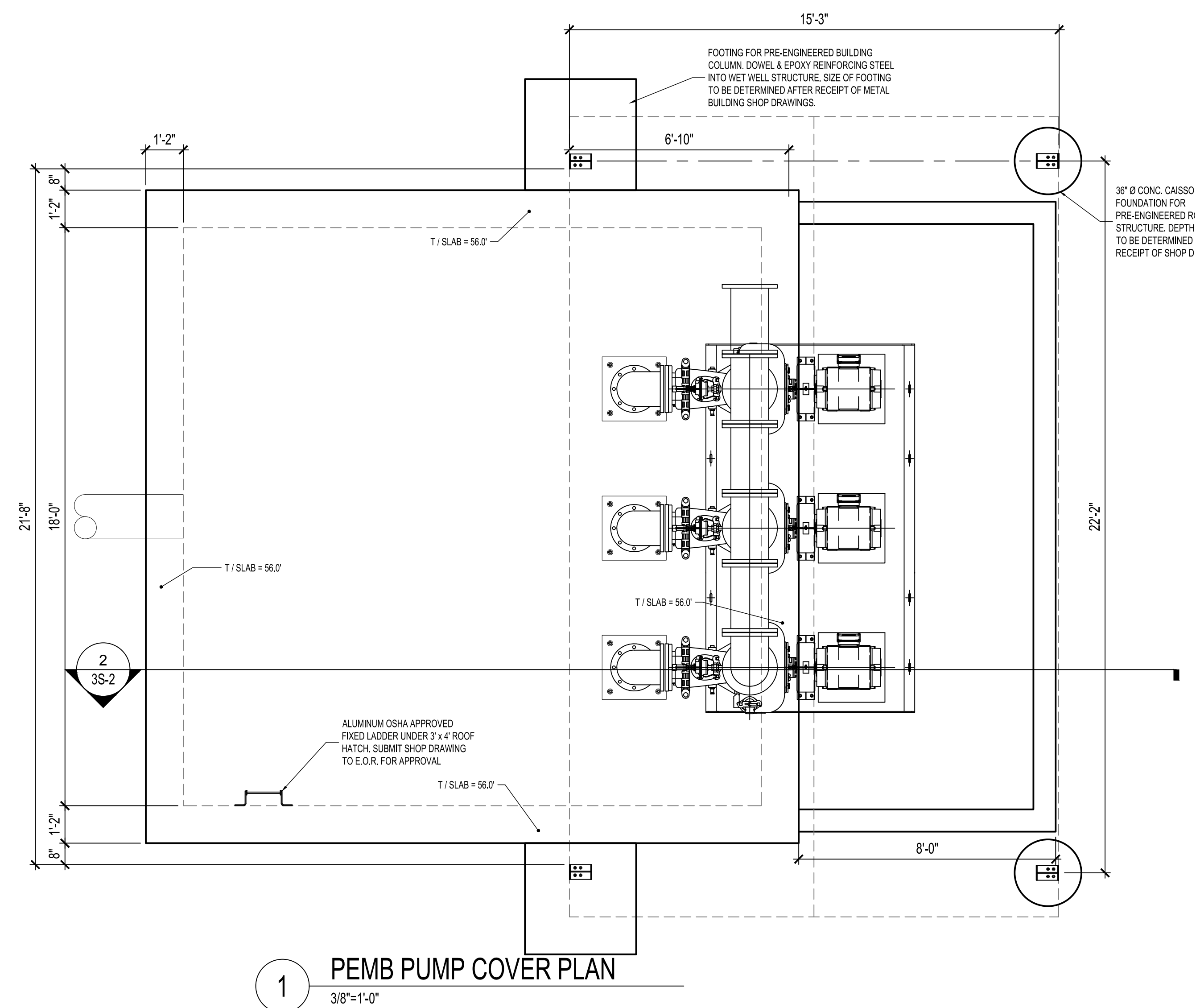
FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

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IN-LINE PUMP STATION
FOUNDATION PLAN,
TOP SLAB PLAN, &
GENERAL NOTES

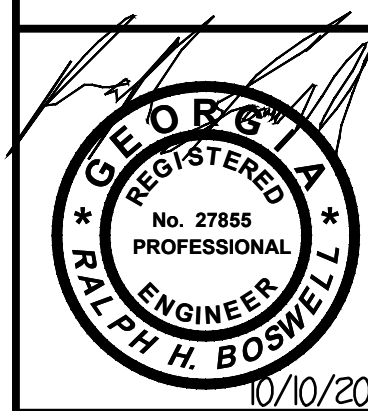
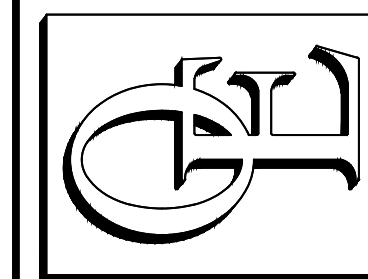
3S - 1
SHEET 1 OF 04



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FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON GEORGIA
CHARLTON COUNTY, GEORGIA

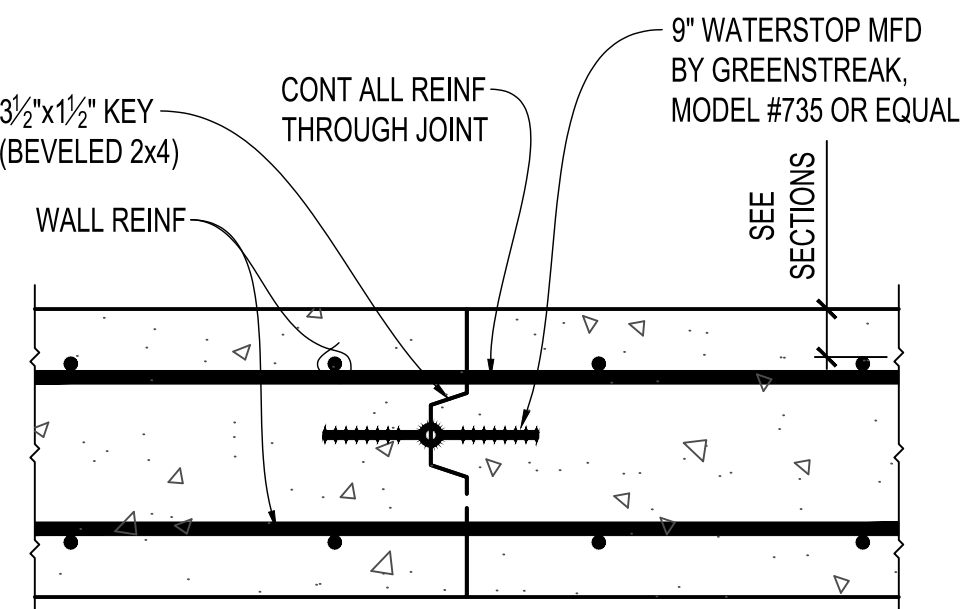
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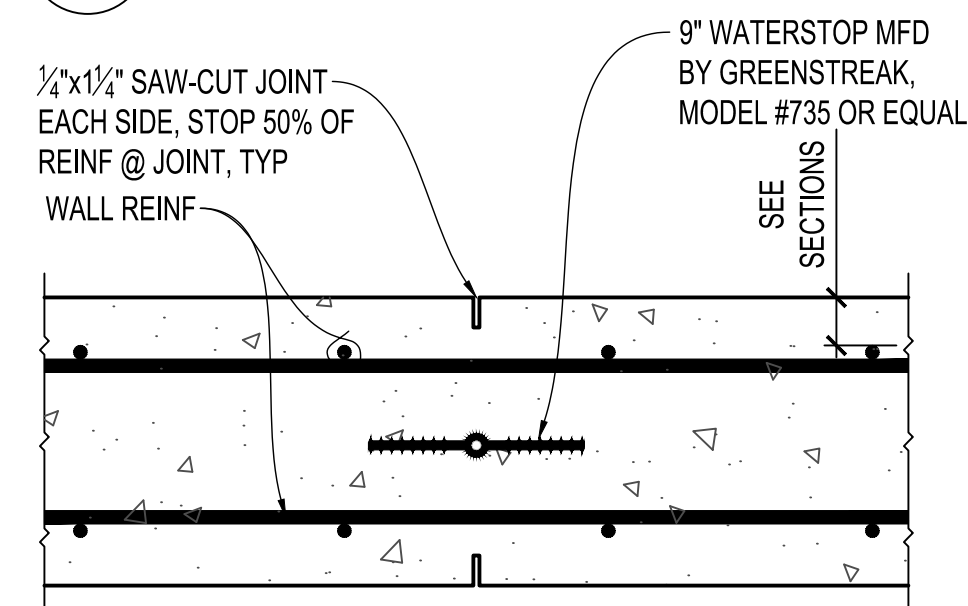
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IN-LINE PUMP STATION
COVER PLAN
& SECTIONS
3S - 2
SHEET 2 OF 04

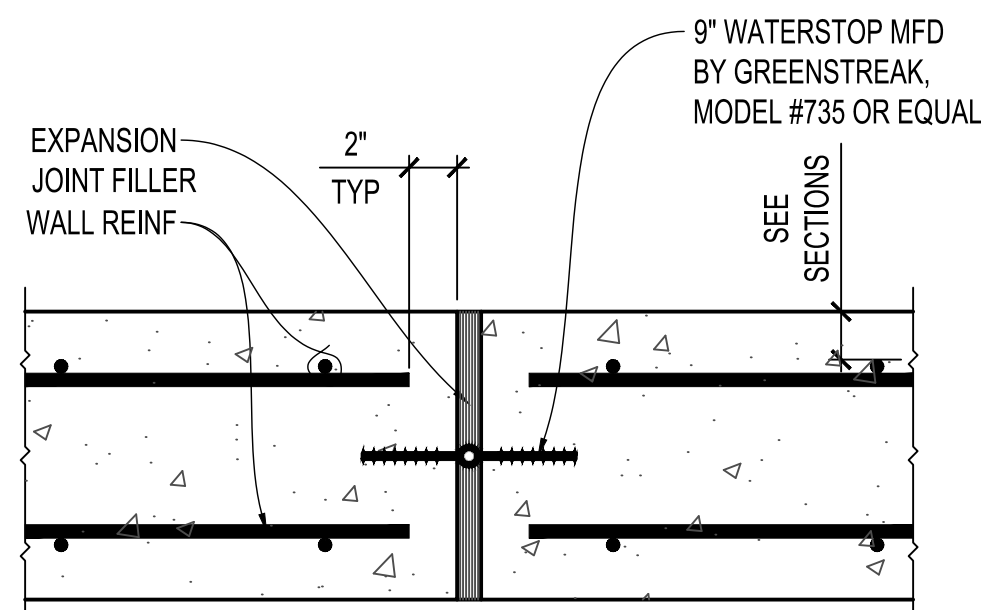
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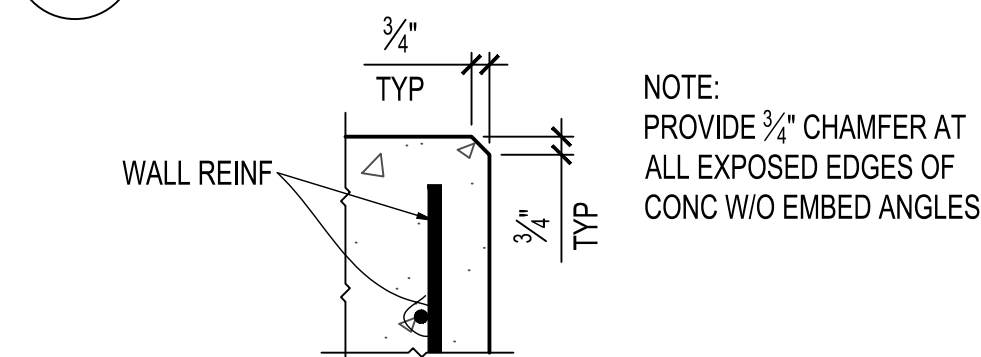
D1 CONC. CONST. JOINT DETAIL
1 1/2"=1'-0"



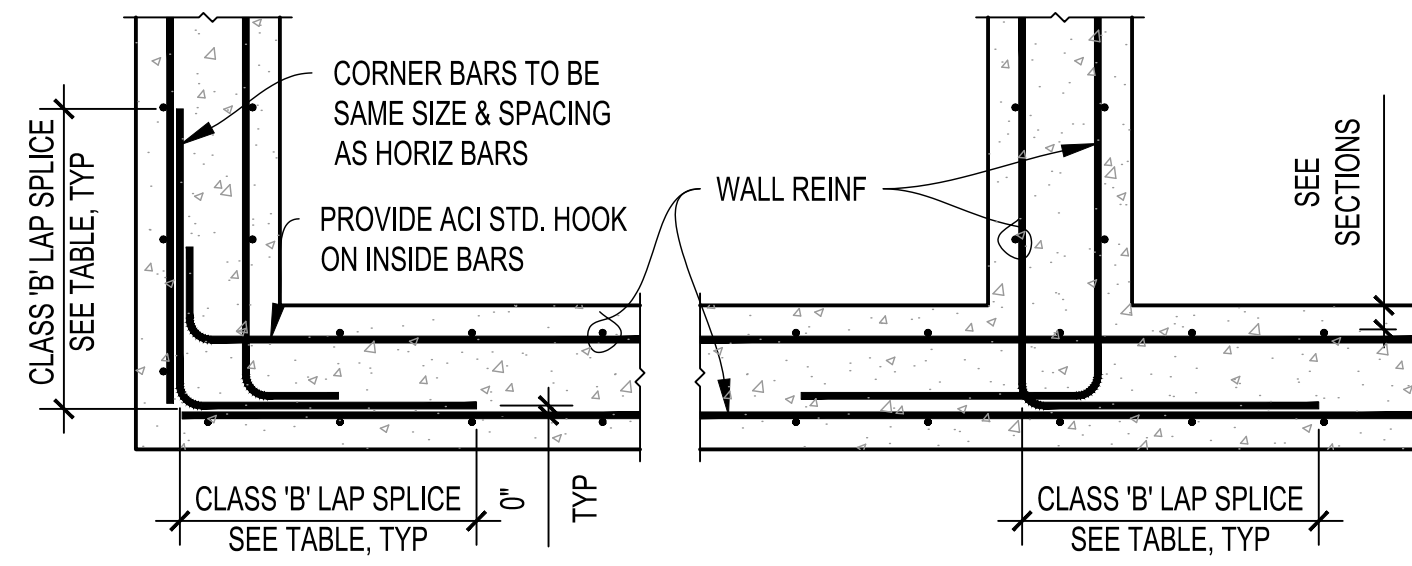
D2 CONC. CONTROL JOINT DETAIL
1 1/2"=1'-0"



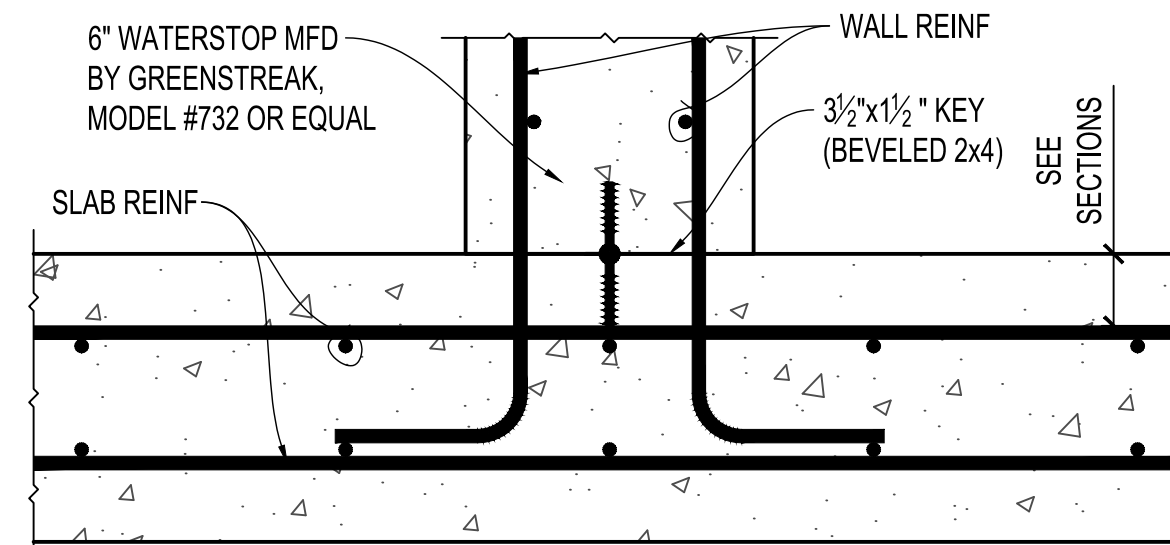
D3 CONC. EXP JOINT DETAIL
1 1/2"=1'-0"



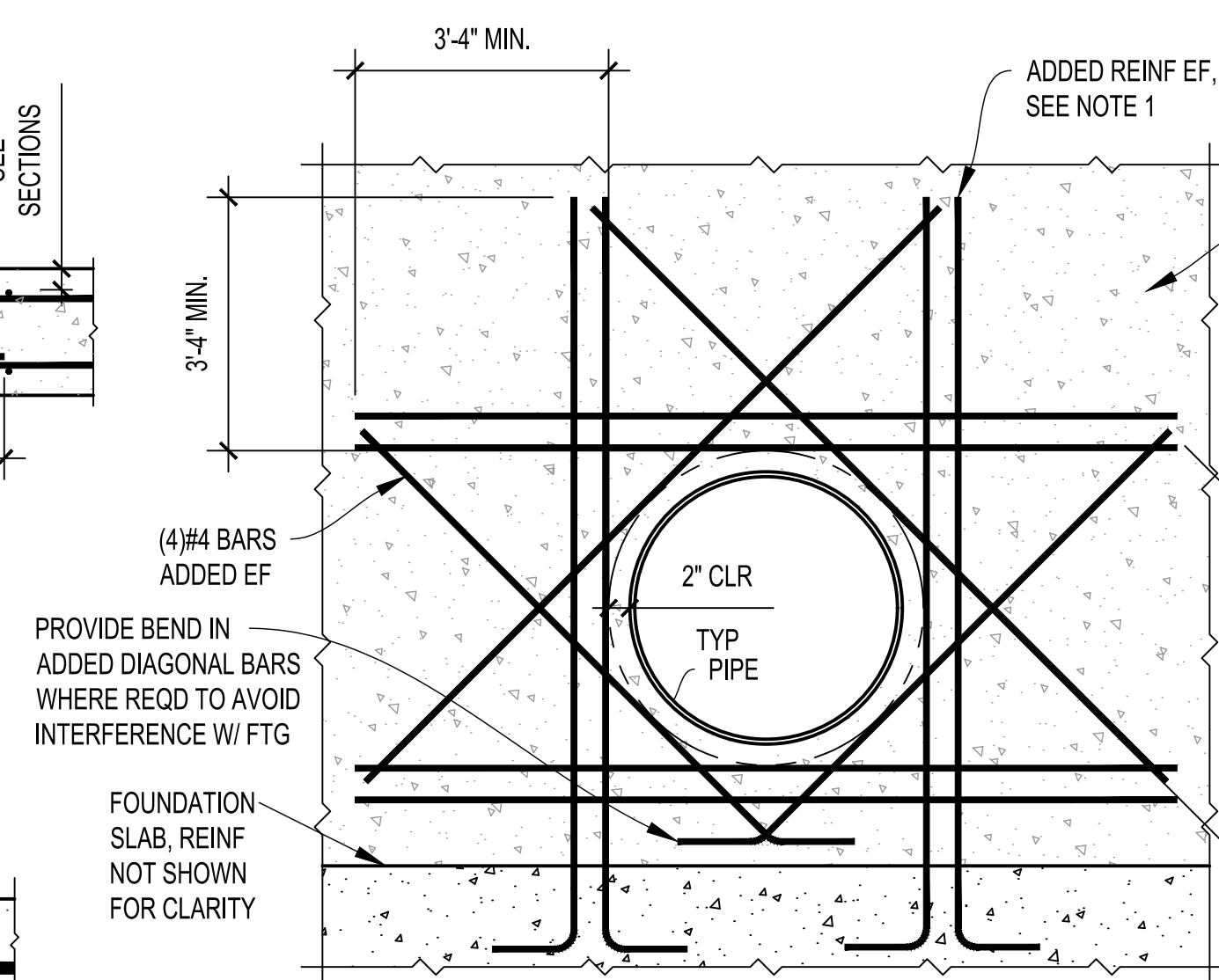
D4 CONC. CHAMFER DETAIL
1 1/2"=1'-0"



D5 TYP REINF @ WALL INTERSECTIONS
N.T.S.

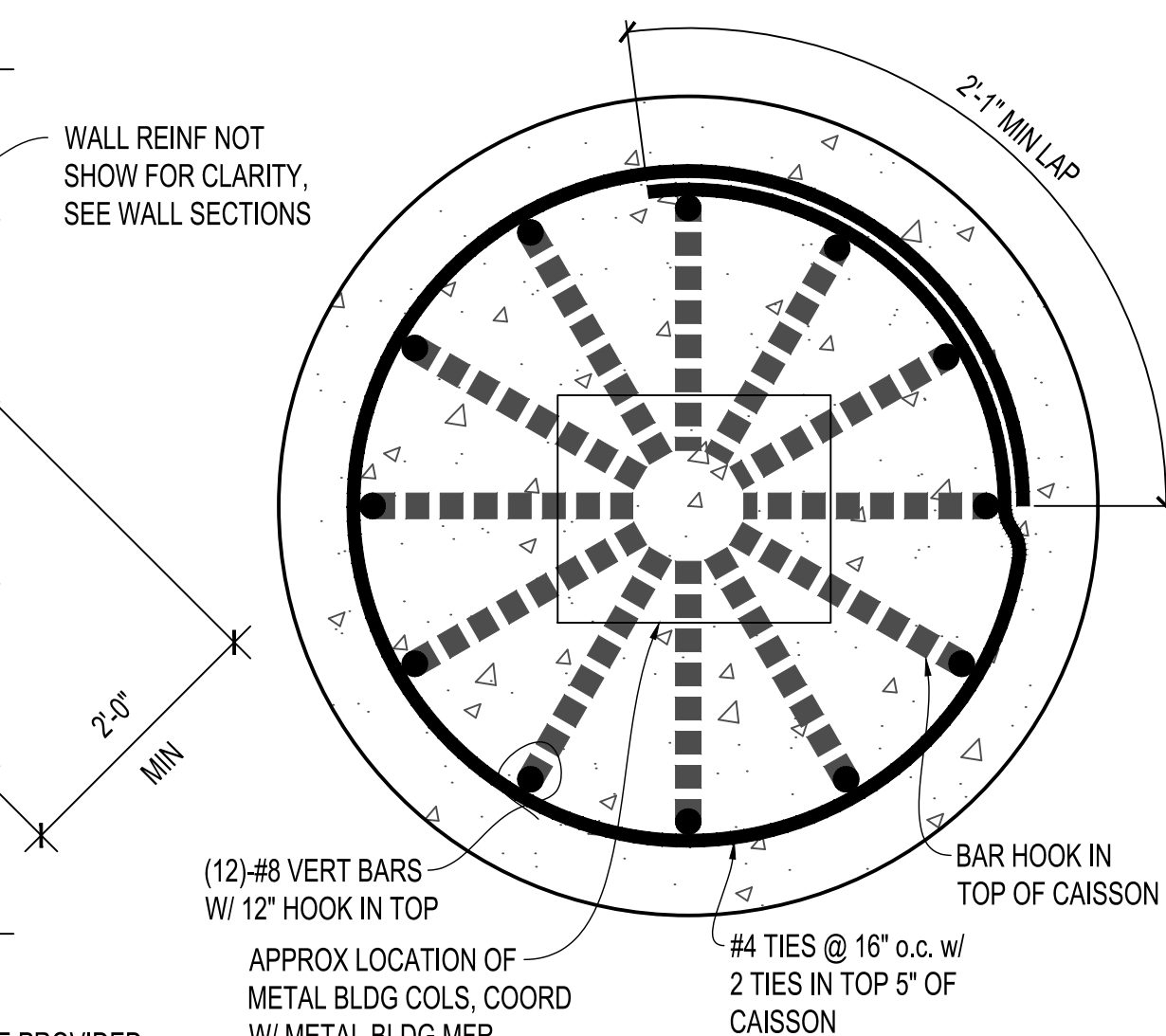


D6 WALL / FOUNDATION JOINT
1 1/2"=1'-0"



- NOTES:
1. THE EQUIVALENT NUMBER OF VERT & HORIZ BARS INTERRUPTED BY OPENINGS SHALL BE PROVIDED BY PLACING 1/2 OF BARS ON EACH SIDE OF THE OPENING @3'OC.
 2. MAINTAIN NOT LESS THAN 1/4" CLEAR BETWEEN ADJACENT PARALLEL BARS.

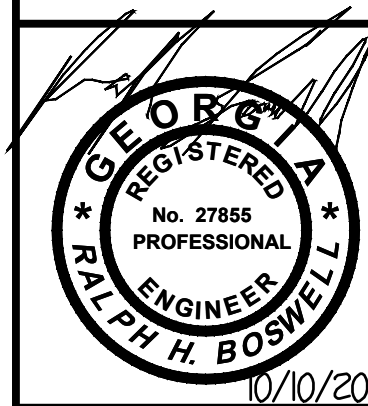
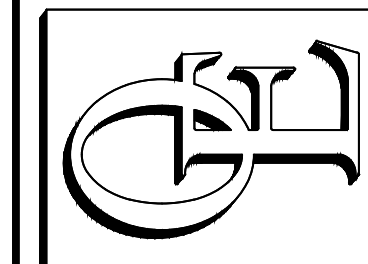
D7 TYP WALL REINF @ PIPE OPENING
N.T.S.



D8 CAISSON REINFORCING
N.T.S.

S3-
SHEET OF 04

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FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
	10-10-2019		EPO SUBMITTAL
	07-22-2019		85% SET FOR REVIEW
	06-14-2019		85% SET FOR REVIEW

DESIGNED: 06/16/2020
FILE NAME: 0618132-3S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 6-14-2019
CHECKED:
APPROVED:
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IN-LINE PUMP STATION
DETAILS

3S - 4
SHEET 4 OF 04

NOTES:
ASSETS: 0618132-4S-CORE-3042X
PRINTED BY: RALPH H. BOSWELL, DATE: Friday, October 11, 2019 11:32:02 AM | DRAWING FILE: C:\work\downland\0618132-4S-CORE-3042X | LAST MODIFIED: Friday, October 4, 2019 8:53:07 AM

STRUCTURE NOTES

- COORD ALL STRUCTURE & PIPING ELEVATIONS & DIMENSIONS W/ MECHANICAL DRAWINGS.
- ALL CONDUIT SHALL BE MOUNTED EXTERNALLY ON STRUCTURE USING HANGERS. FOR ANY CONDUIT PROPOSED TO BE PLACED IN THE CONCRETE POUR, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING PLACEMENT OF ANY CONDUIT IN CONCRETE STRUCTURE.
- CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF CONSTRUCTION JOINTS FOR APPROVAL BY ENGINEER OF RECORD PRIOR TO BEGINNING WORK.
- COORDINATE ALL EXCAVATIONS W/ EXISTING STRUCTURES SO AS TO NOT UNDERMINE THEM. APPROPRIATE MEASURES SHALL BE TAKEN TO INSURE THAT EXISTING STRUCTURES ARE NOT UNDERMINED OR OTHERWISE DAMAGED DURING THE EXCAVATION OR CONSTRUCTION OF NEW STRUCTURES.
- SEISMIC DESIGN CRITERIA:
OCCUPANCY CATEGORY = IV
SEISMIC IMPORTANCE FACTOR (I_e) = 1.50
 $S_s = 0.127$ $S_1 = 0.067$
SITE CLASS = D
 $S_{DS} = 0.135$ $S_{D1} = 0.107$
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-05 TABLE 15.4-1 OR 15.4-2):
FLAT-BOTTOM GROUND SUPPORTED TANKS - REINFORCED NON-SLIDING BASE:
RESPONSE MODIFICATION FACTOR (R) = 2.0
SEISMIC RESPONSE COEFF. (C_s) = 0.2926
SEISMIC DESIGN CATEGORY = C 0.1029
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

CONC REINF LAP LENGTH
4500 PSI (ACI 350-06)

BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	18"
#4	24"
#5	30"
#6	35"
#7	51"
#8	59"
#9	66"
#10	73"

FOUNDATION NOTES

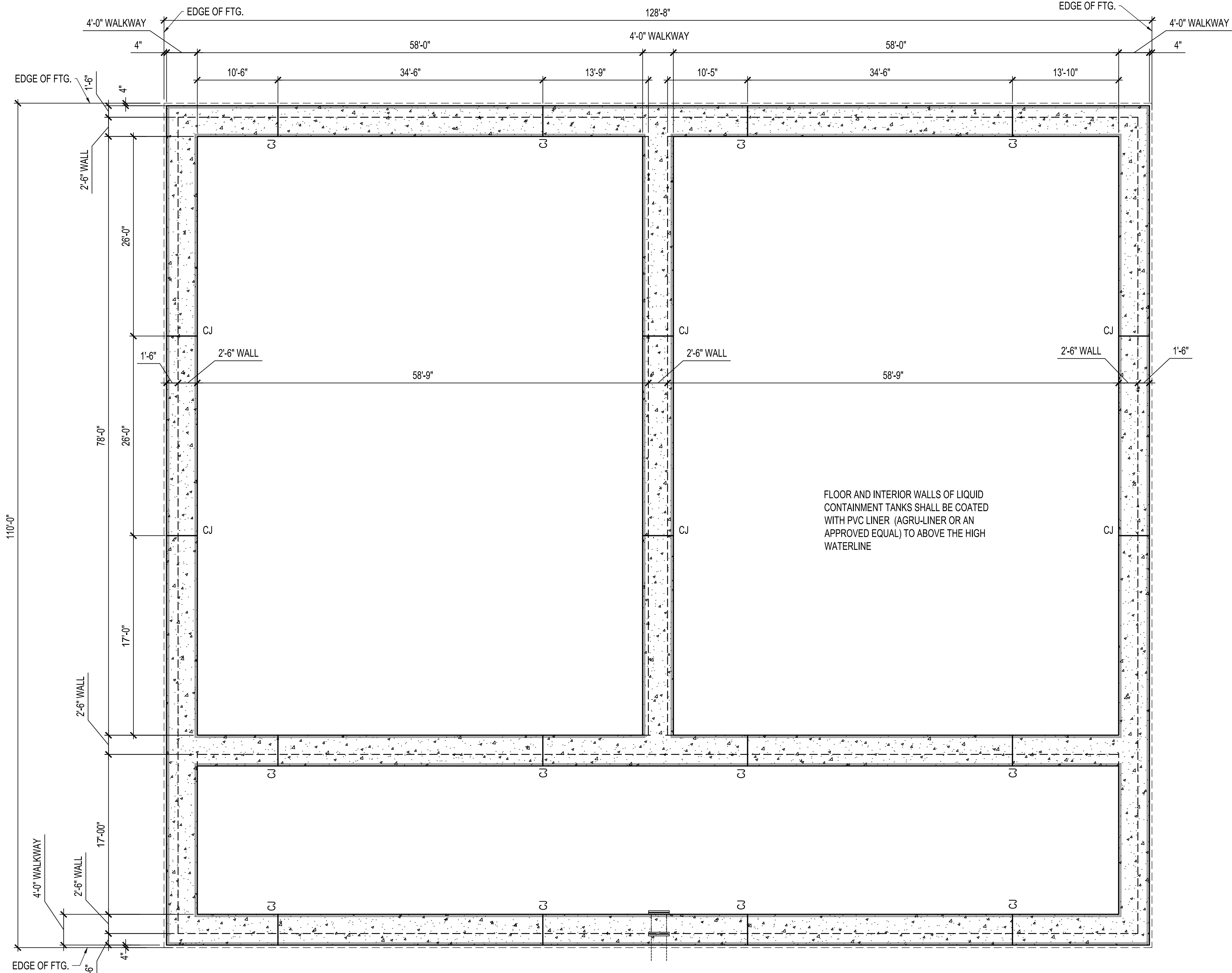
- FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON A SOILS REPORT PREPARED BY TERRACON CONSULTANTS, INC. (PROJECT # ES165069). ALLOWABLE BEARING CAPACITY SHALL BE VERIFIED AT TIME OF EXCAVATION AND STRUCTURAL ENGINEER SHALL BE NOTIFIED IF THE ACTUAL SOIL BEARING PRESSURE IS LOWER THAN THE DESIGN SOIL PRESSURE.
- DEWATER, UNDERCUT, & REPLACE MATERIAL BELOW FOOTING ELEVATIONS PER GEOTECH REPORT. GRANULAR BASE BELOW FOOTING SHALL BE #57 STONE.
- PRIOR TO POURING CONCRETE, ALL DEBRIS, WATER, AND LOOSE EARTH SHALL BE REMOVED FROM THE FOUNDATION BED.
- GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS, AND BACKFILLS PRIOR TO PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACKFILLS, ETC.
- BACKFILL AGAINST WALLS SHALL BE DEPOSITED EVENLY AGAINST BOTH SIDES OF WALLS UNTIL THE LOWER FINAL GRADE IS REACHED. COMPACTION OF BACKFILL WITHIN 10 FEET OF WALLS SHOULD BE PERFORMED WITH HAND OPERATED EQUIPMENT. THE BACKFILLING OF UNDERGROUND STRUCTURES SHALL BE DONE W/ A MAX OF 4'-0" INCREMENTS ALL AROUND THE STRUCTURES.
- PLACEMENT AND COMPACTION OF STRUCTURAL FILL SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER. COMPACTION SHALL BE 95% OF STANDARD PROCTOR.
- WHERE ANY UTILITY LINES PASS UNDER A FOOTING, PROVIDE A PRE-CAST CONCRETE RELIEVING ARCH, A MINIMUM OF THREE TIMES THE DIAMETER OF THE UTILITY PIPE FOR PROTECTION.

CONCRETE NOTES

- MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS SHALL BE 4500 PSI FOR WALLS AND SLABS IN LIQUID CONTAINING VESSELS.
- STRUCTURAL MEMBERS OF REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-11.
- PROVIDE $\frac{3}{4}$ " CHAMFER AT ALL EXPOSED CORNERS OF CONCRETE W/O EMBED ANGLES.
- PLACE ALL REBAR FOR WALLS & SLABS IN DIRECTIONS & LOCATIONS AS SHOWN IN TANK SECTIONS. DO NOT REVERSE LOCATIONS OF INSIDE/OUTSIDE BARS AT EACH FACE.
- CONCRETE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-11. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 75 CY OF CONCRETE USED FOR FOOTINGS, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS. TEST REPORTS INDICATING (NON)COMPLIANCE SHALL BE PROVIDED TO THE OWNER, ENGINEER & CONTRACTOR. A COPY OF THE TEST REPORTS SHALL BE AVAILABLE AT THE JOBSITE. 4 INCH DIAMETER X 8 INCH TEST CYLINDERS ARE ACCEPTABLE.

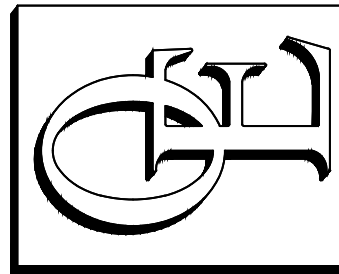
REINFORCING STEEL NOTES

- SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- MATERIALS:
 - REINFORCING BARS SHALL COMPLY WITH ASTM A615 GRADE 60.
 - WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A82 AND A185.
 - REINFORCING BARS FOR WELDING SHALL COMPLY WITH ASTM A-706.
- CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS INDICATED ON THE DRAWINGS BUT SHALL NOT BE LESS THAN THE FOLLOWING:
 - CONCRETE PLACED AGAINST EXPOSED EARTH (NOT FORMED) = 3"
 - FORMED SURFACES EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
SLABS & JOISTS W/ #5 BARS & SMALLER = $1\frac{1}{2}$ "
SLABS & JOISTS W/ #6 BARS & LARGER = 2"
BEAMS, PIERS, COLUMNS, WALLS, FOOTINGS, & BASE SLABS = 2"
 - FORMED SURFACES NOT EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
SLABS & JOISTS = $\frac{3}{4}$ "
BEAMS, PIERS, & COLUMNS = $1\frac{1}{2}$ "
WALLS = $\frac{3}{4}$ "
FOOTINGS & BASE SLABS = 2"



1 SBR's TANK PLAN
1/8"=1'-0"

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10/10/2019
FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

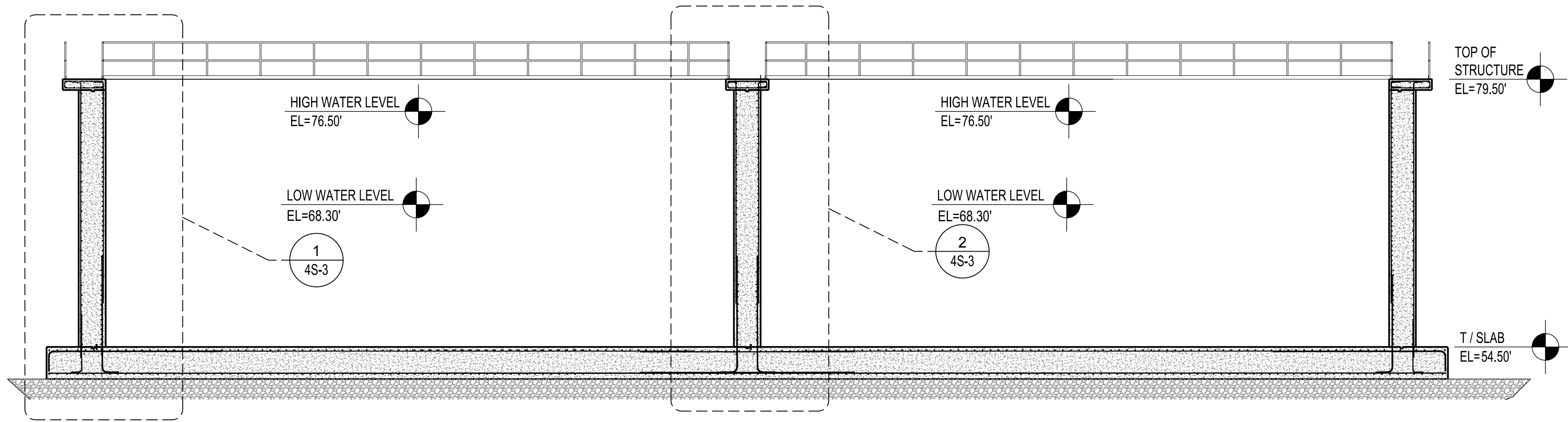
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	6-14-2019		85% SET FOR REVIEW

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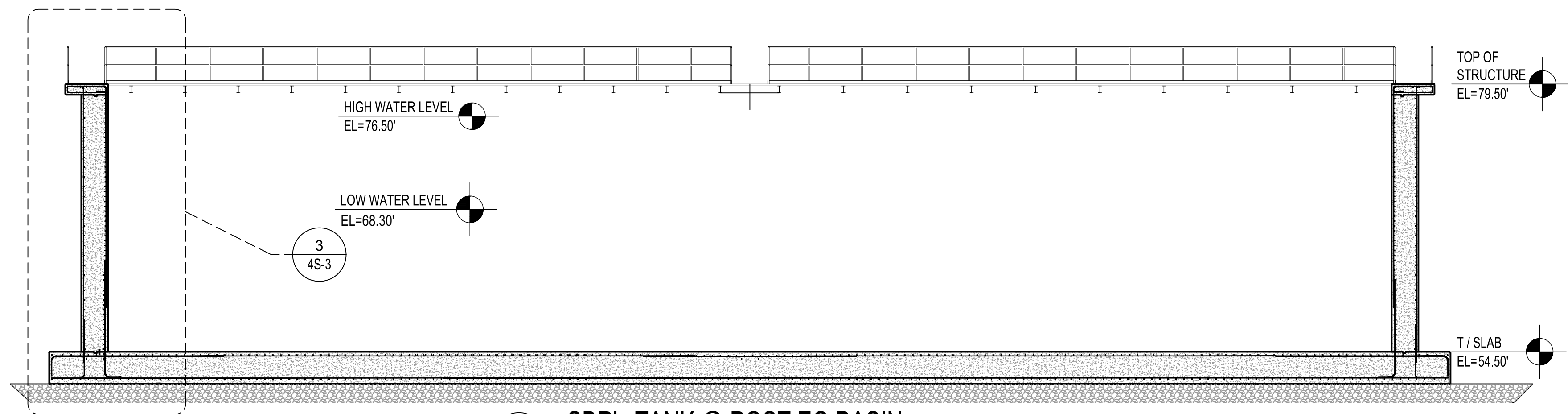
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TANK PLAN & NOTES

4S-1
SHEET 1 OF 05

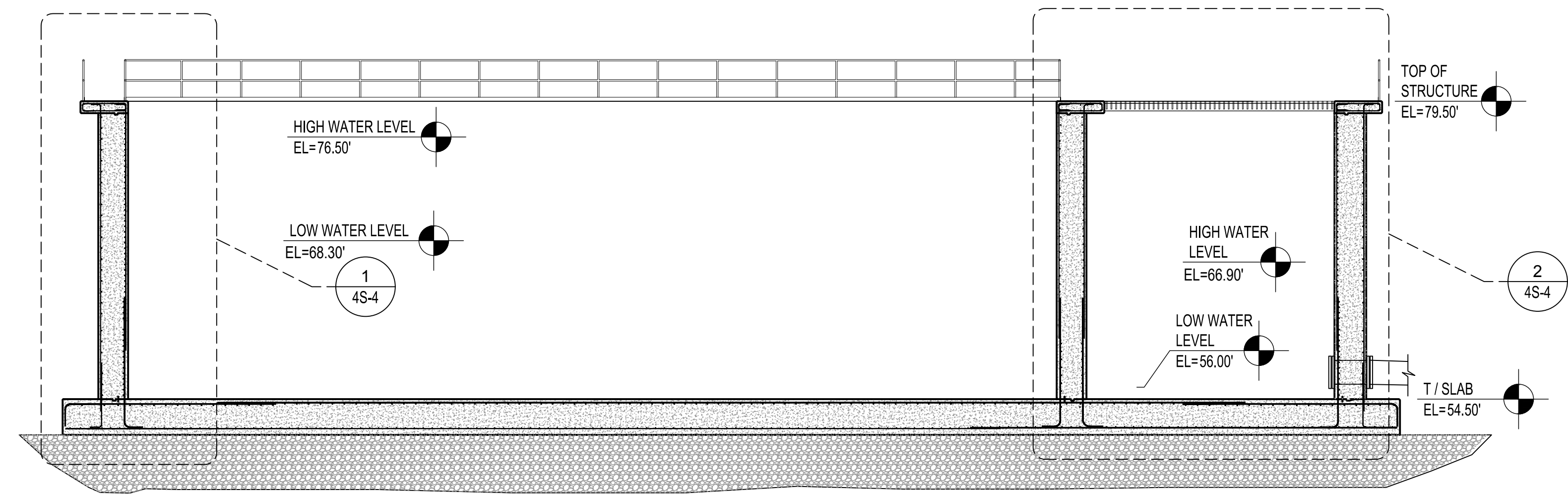
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LAST MODIFIED: 10/10/2019 11:02 AM



1 SBR's TANK SECTION
1/8"=1'-0"



2 SBR's TANK @ POST EQ BASIN
1/8"=1'-0"



3 SBR's TANK SECTION @ SBR & POST EQ BASIN
1/8"=1'-0"

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Greensboro, GA 30642



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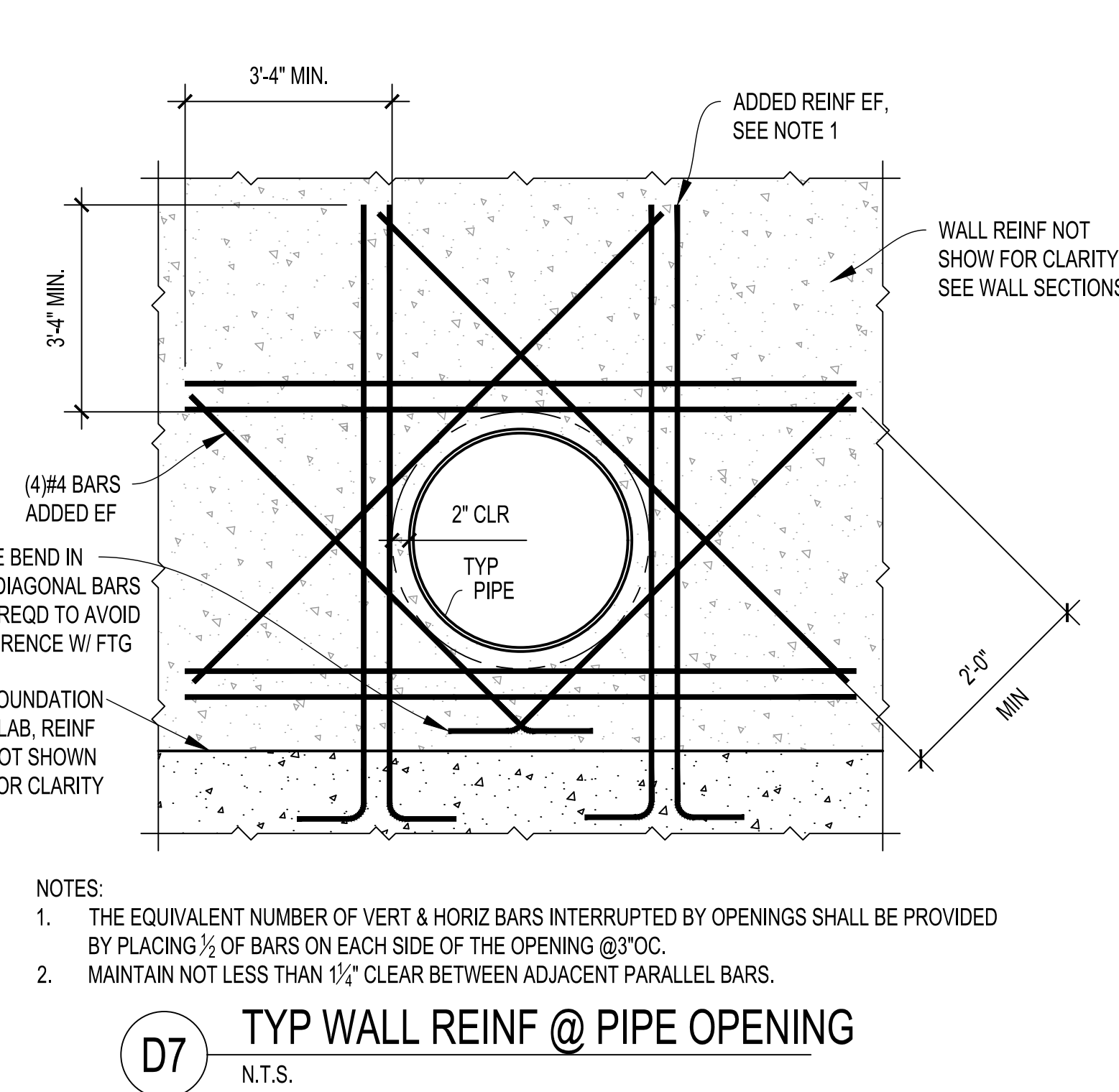
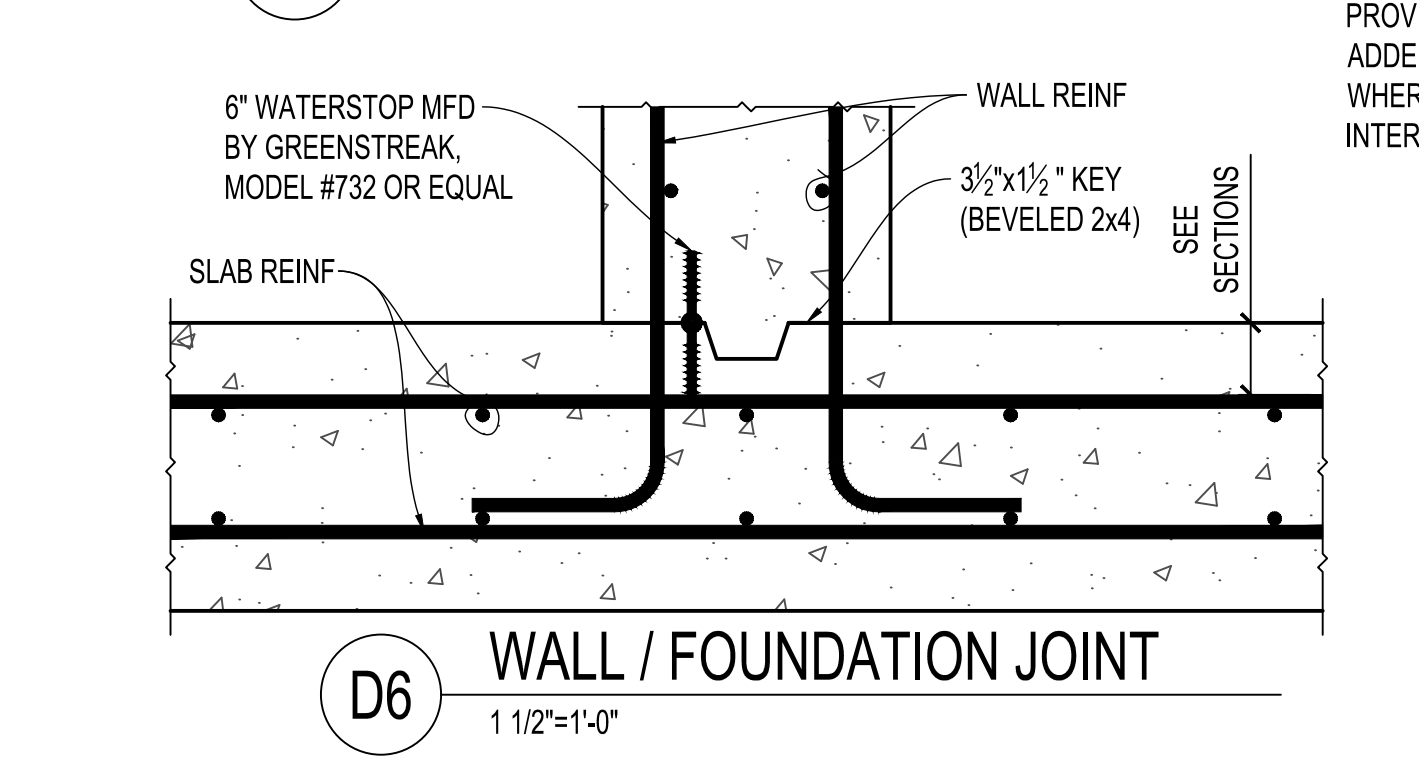
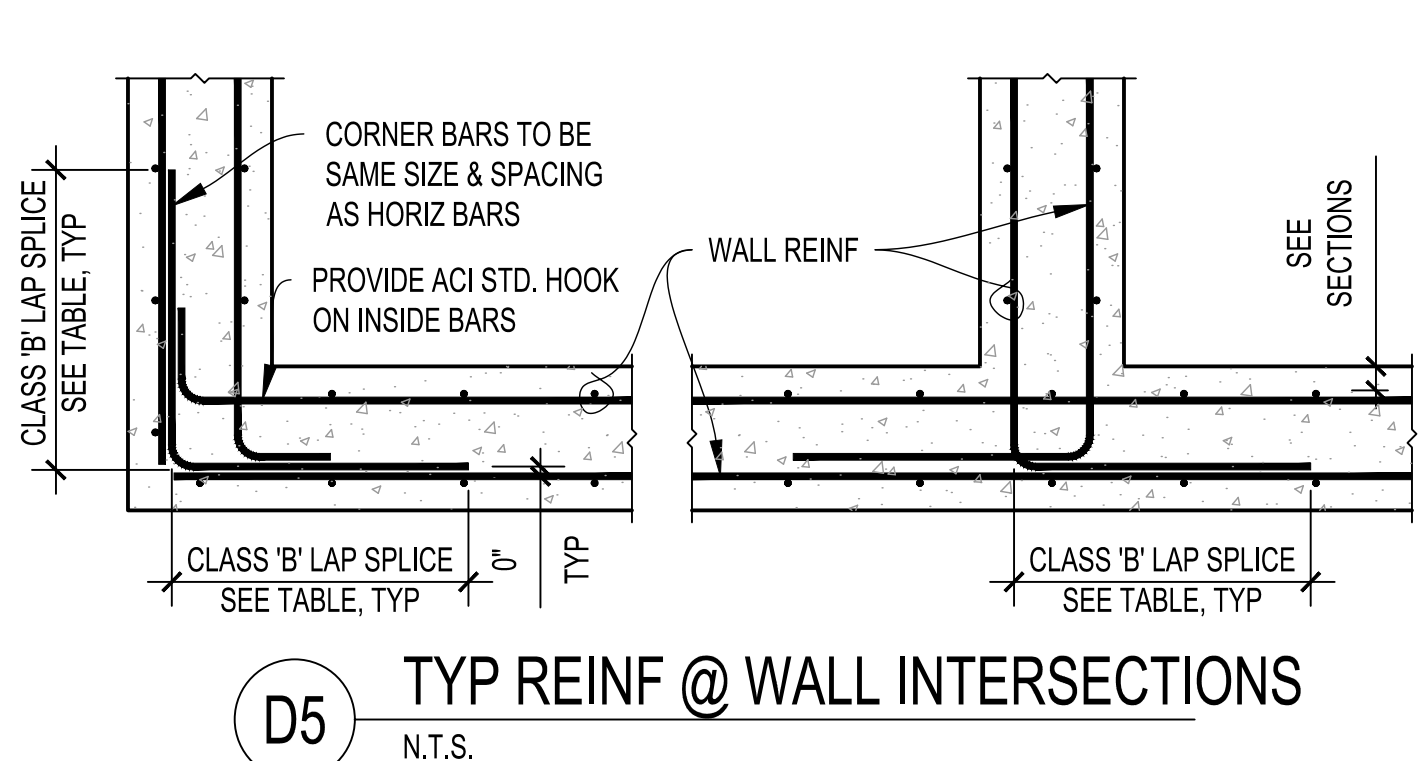
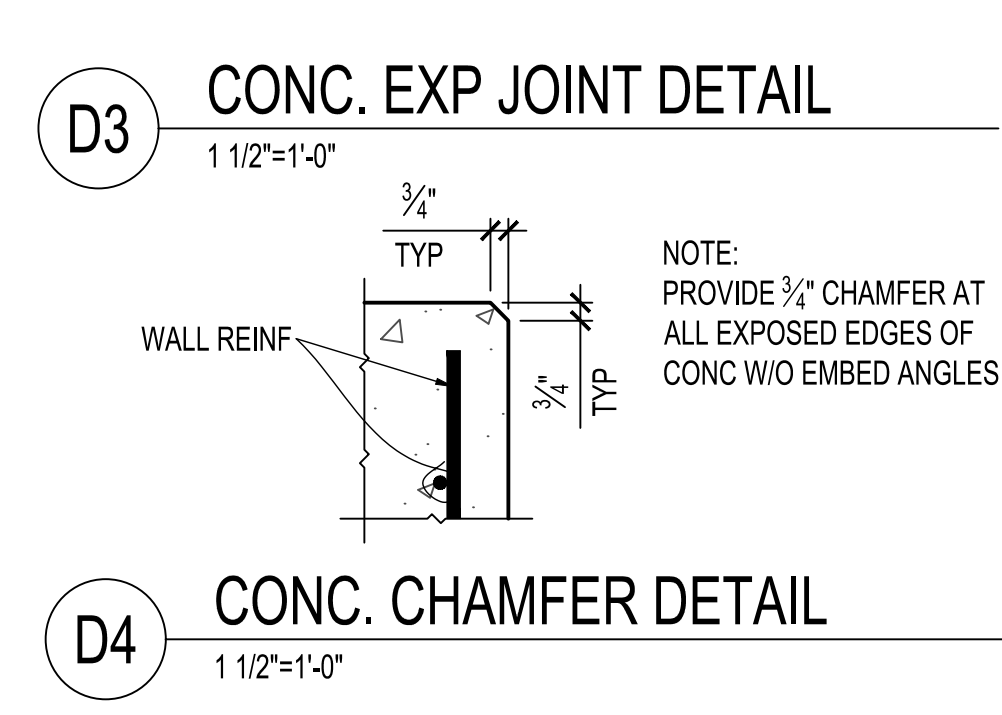
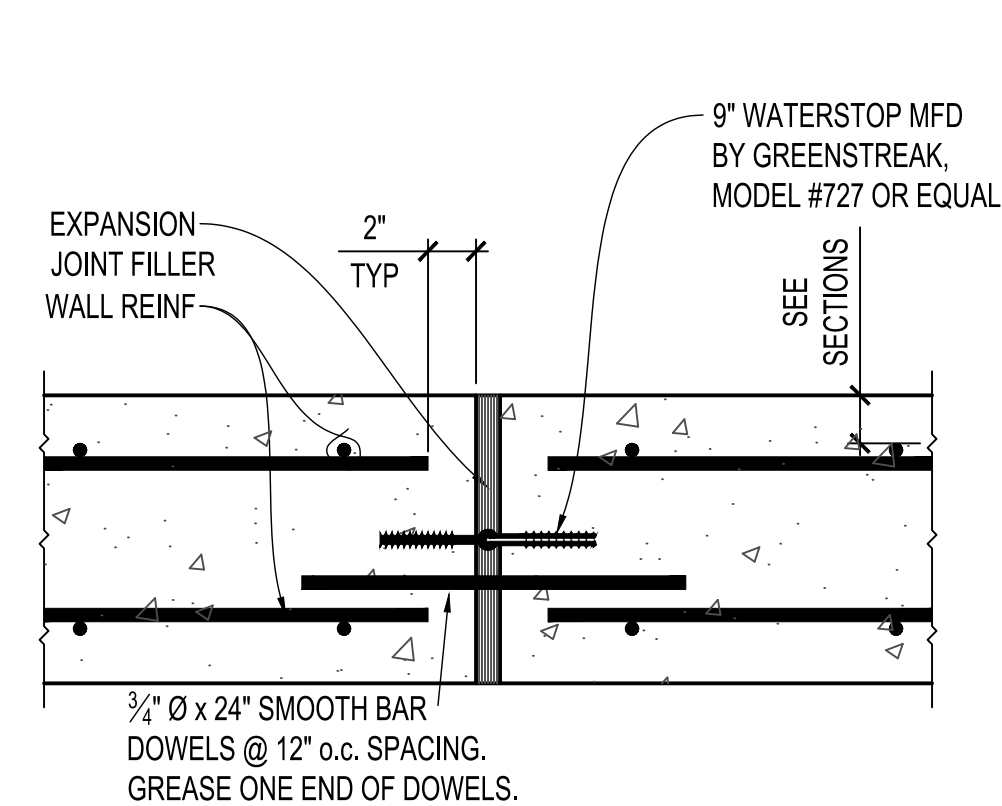
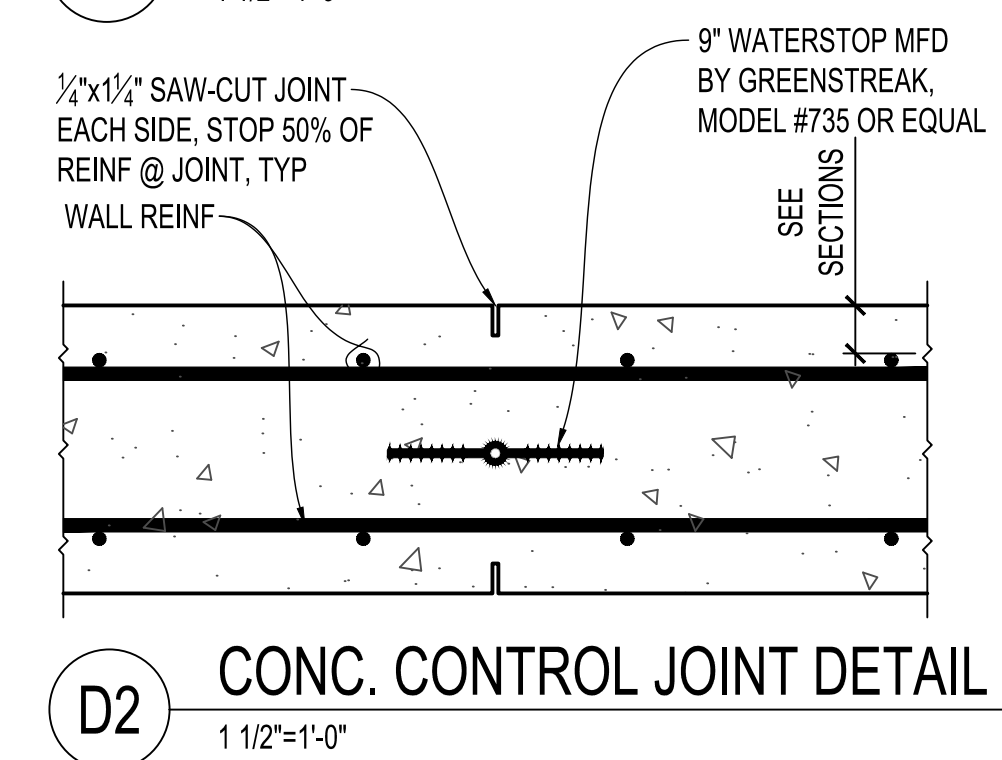
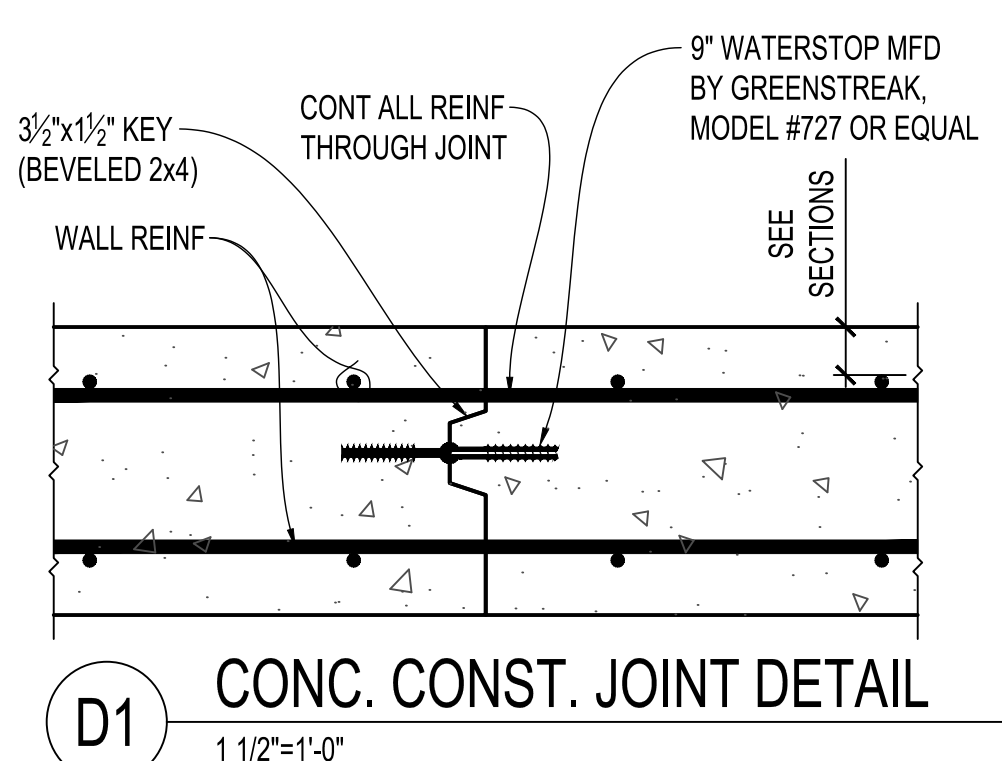
FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
	10/10/2019		EPD SUBMITTAL
	7/4/2019		85% SET FOR REVIEW
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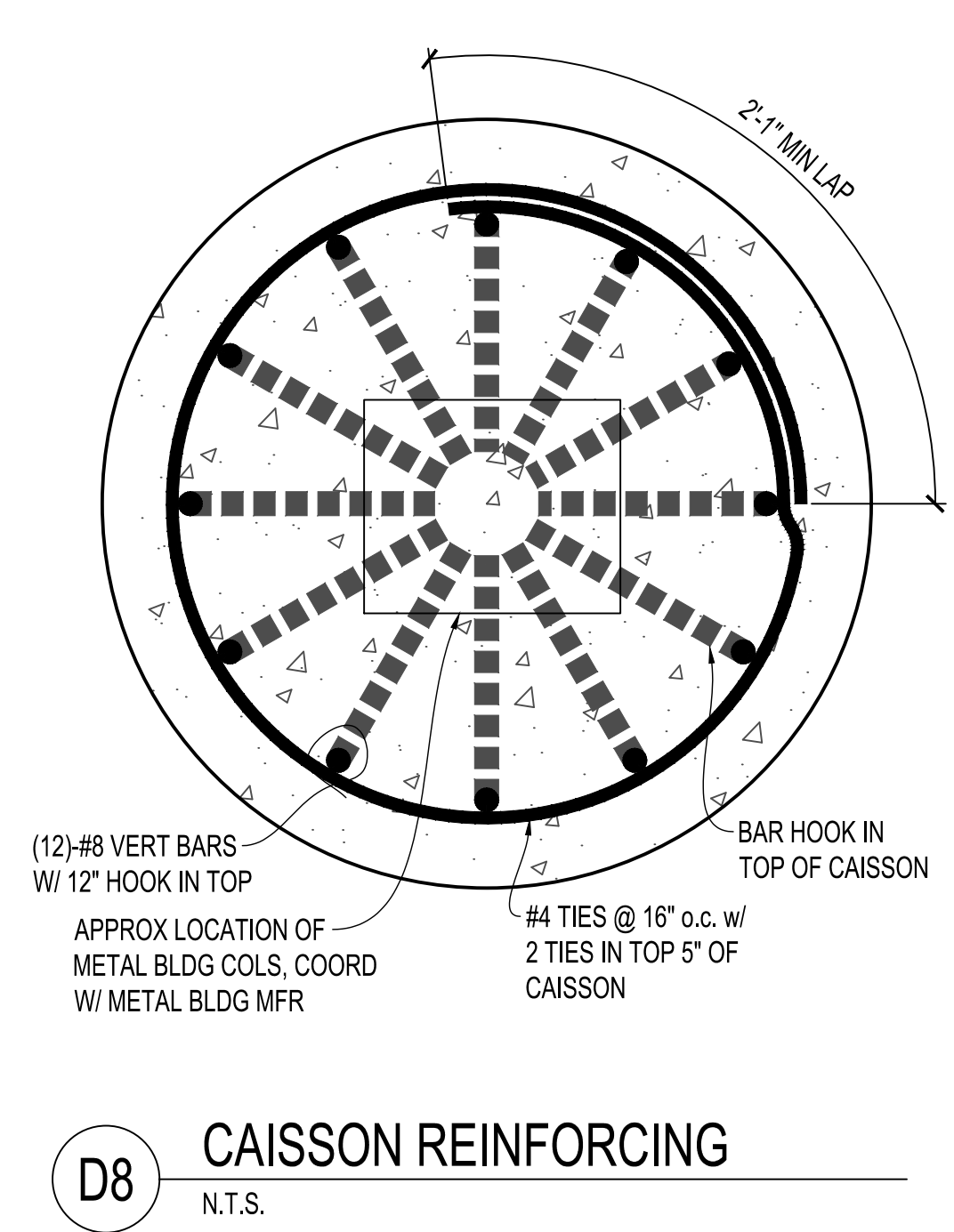
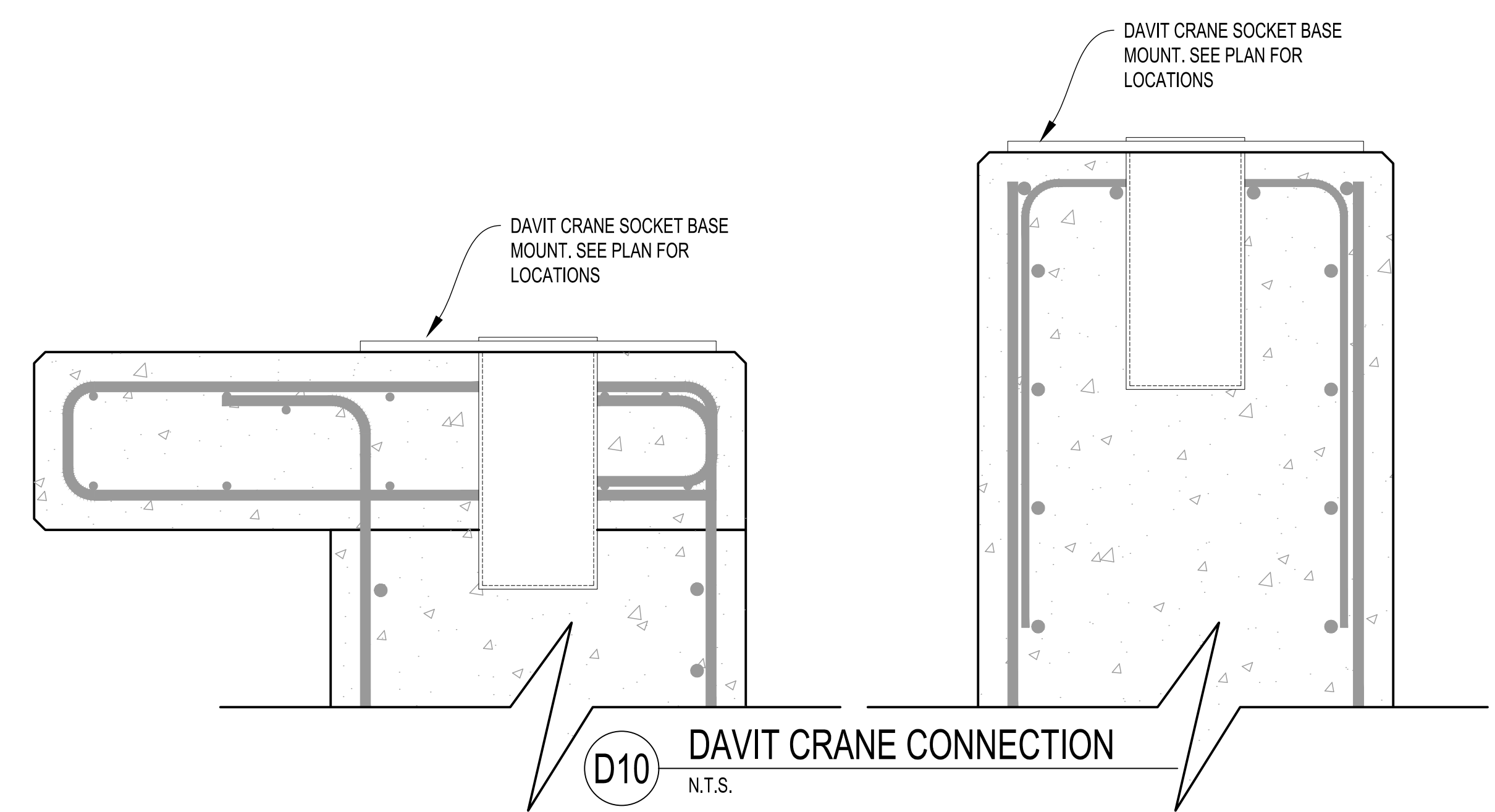
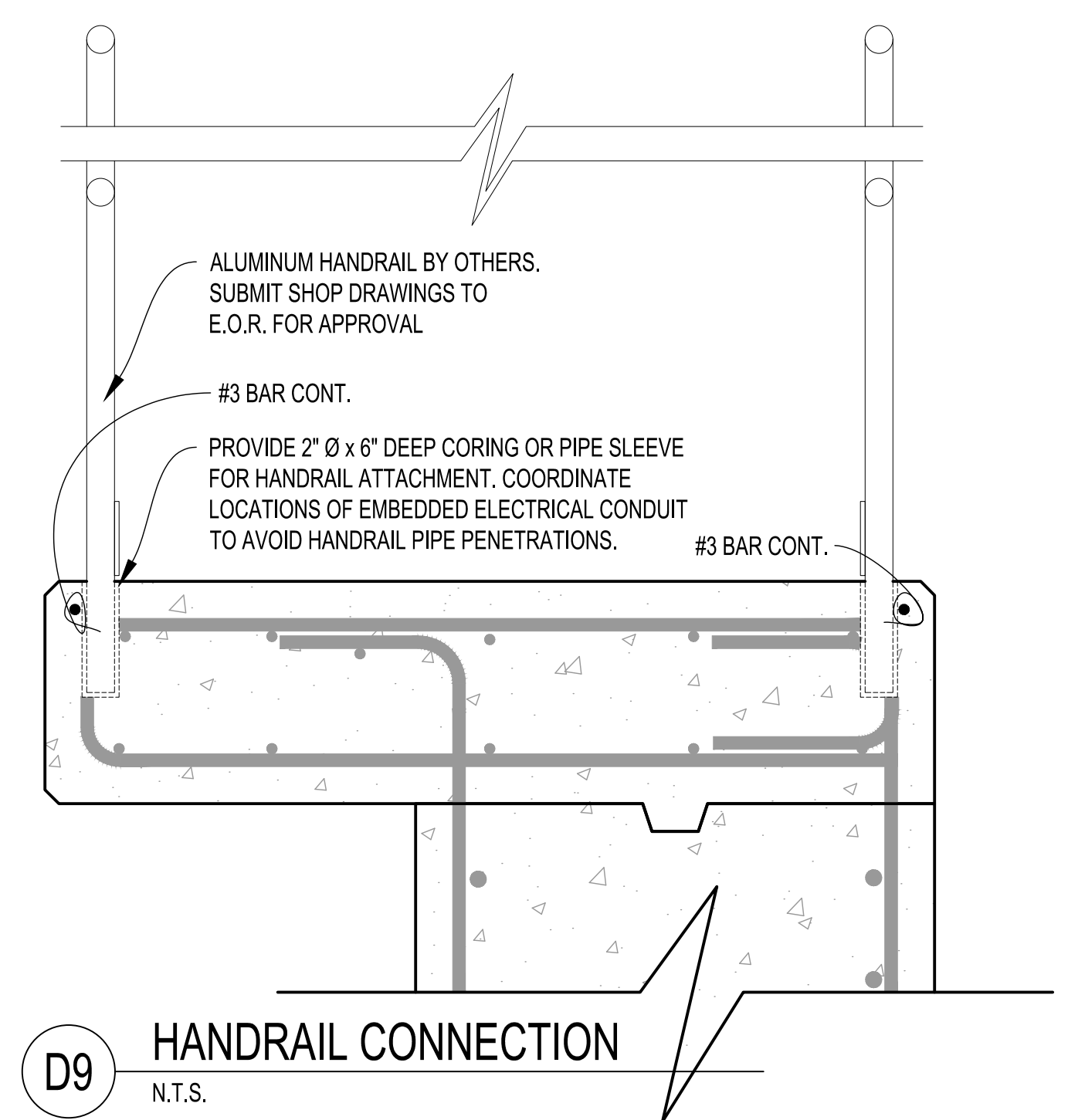
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SBR
SECTIONS





- NOTES:
- THE EQUIVALENT NUMBER OF VERT & HORIZ BARS INTERRUPTED BY OPENINGS SHALL BE PROVIDED BY PLACING 1/2 OF BARS ON EACH SIDE OF THE OPENING @3'OC.
 - MAINTAIN NOT LESS THAN 1/4" CLEAR BETWEEN ADJACENT PARALLEL BARS.



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REGISTERED PROFESSIONAL ENGINEER
No. 27855
RALPH H. BOSWELL

10/10/2019

FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
	10/10/2019	EPD/SUBMITAL	
	7-4-2019	85% SET FOR REVIEW	
	6-14-2019	85% SET FOR REVIEW	

DESIGNED: 06/16/2022
FILE NAME: 0618132-4S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 6-14-2019

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SBR

DETAILS

4S-5
SHEET 5 OF 05



STRUCTURE NOTES

- COORD ALL STRUCTURE & PIPING ELEVATIONS & DIMENSIONS W/ CIVIL DRAWINGS.
- ALL CONDUIT SHALL BE MOUNTED EXTERNALLY ON STRUCTURE USING HANGERS. FOR ANY CONDUIT PROPOSED TO BE PLACED IN THE CONCRETE POUR, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING PLACEMENT OF ANY CONDUIT IN CONCRETE STRUCTURE.
- COORDINATE ALL EXCAVATIONS W/ EXISTING STRUCTURES SO AS TO NOT UNDERMINE THEM. APPROPRIATE MEASURES SHALL BE TAKEN TO INSURE THAT EXISTING STRUCTURES ARE NOT UNDERMINED OR OTHERWISE DAMAGED DURING THE EXCAVATION OR CONSTRUCTION OF NEW STRUCTURES.
- SEISMIC DESIGN CRITERIA:
 - OCCUPANCY CATEGORY = IV
 - SEISMIC IMPORTANCE FACTOR (I_E) = 1.50
 - $S_S = 0.127$ $S_1 = 0.067$
 - SITE CLASS = D
 - $S_{D1} = 0.135$ $S_{D1} = 0.107$

BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-05 TABLE 15.4-1 OR 15.4-2):

FLAT-BOTTOM GROUND SUPPORTED TANKS - REINFORCED NON-SLIDING BASE:

RESPONSE MODIFICATION FACTOR (R) = 2.0

SEISMIC RESPONSE COEFF. (C_S) = 0.2926

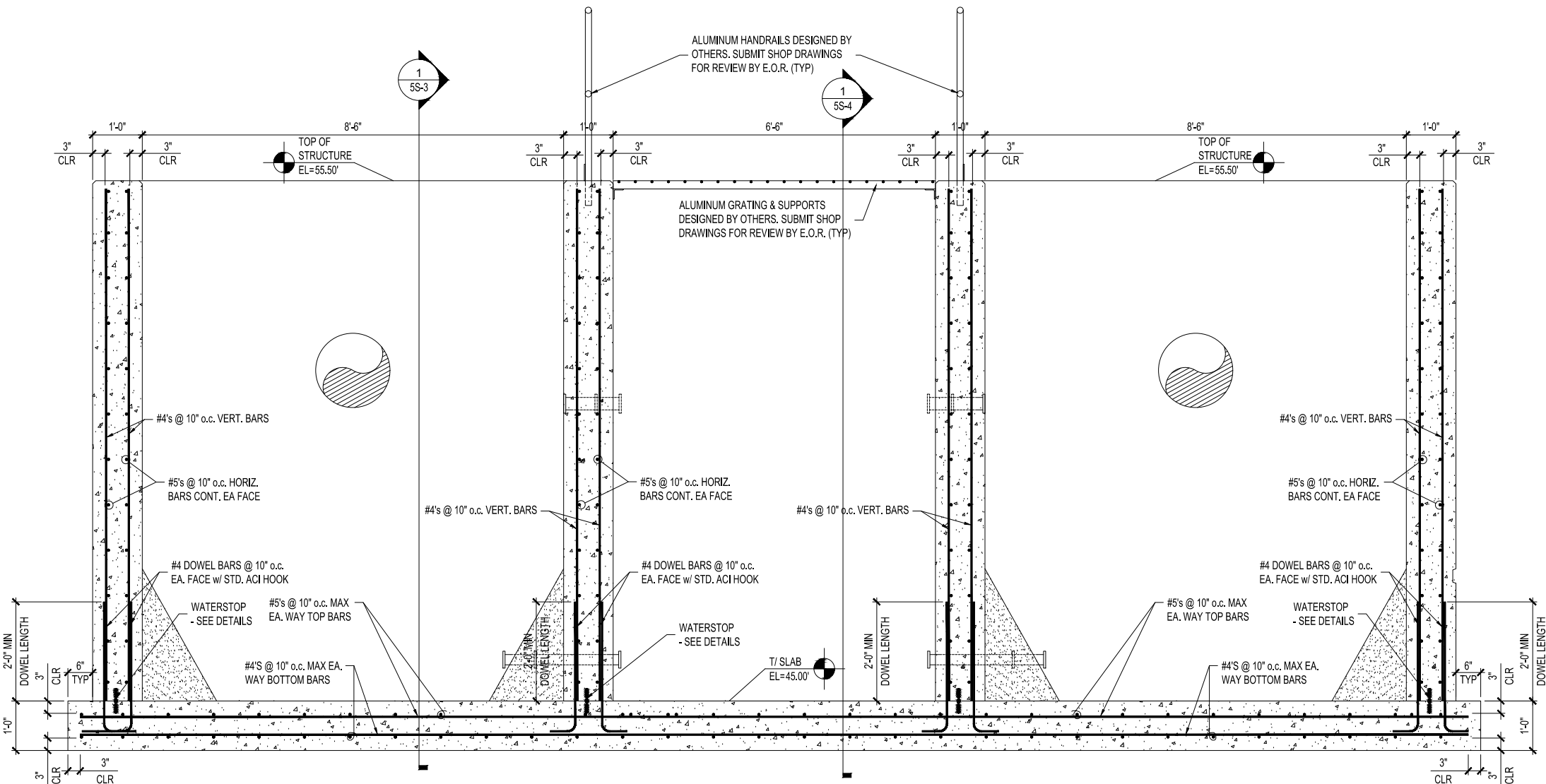
SEISMIC DESIGN CATEGORY = C 0.1029

ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

- # CONCRETE NOTES
1. MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS SHALL BE 4500 PSI FOR WALLS AND SLABS IN LIQUID CONTAINING VESSELS.
 2. MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS SHALL BE 3000 PSI FOR CAISSONS AND SLABS-ON-GRADE.
 3. STRUCTURAL MEMBERS OF REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-11.
 4. PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS OF CONCRETE W/O EMBED ANGLES.
 5. PLACE ALL REBAR FOR WALLS & SLABS IN DIRECTIONS & LOCATIONS AS SHOWN IN TANK SECTIONS. DO NOT REVERSE LOCATIONS OF INSIDE/OUTSIDE BARS AT EACH FACE.
 6. CONCRETE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-11. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 75 CY OF CONCRETE USED FOR FOOTINGS, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS TEST REPORTS INDICATING (NON)COMPLIANCE SHALL BE PROVIDED TO THE OWNER, ENGINEER & CONTRACTOR. A COPY OF THE TEST REPORTS SHALL BE AVAILABLE AT THE JOBSITE. 4 INCH DIAMETER X 8 INCH TEST CYLINDERS ARE ACCEPTABLE.

- [illegible]

L
K
J
H
G
F
E
D
C
B
A



1 FILTER BASIN SECTION
3/4"=1'-0"

MAKES
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10/10/2019

FOLKSTON TREATMENT PLANT
FOR:
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FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
	10-10-2019		EPD SUBMITTAL
	7-4-2019		85% SET FOR REVIEW
	6-14-2019		80% SET FOR REVIEW

DESIGNED:
DRAWN:
CHECKED:
APPROVED:

OE PROJECT NO: OE18132
FILE NAME: OE18132-5S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 6-14-2019

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DISK FILTERS

SECTIONS

5S-2
SHEET 2 OF 05

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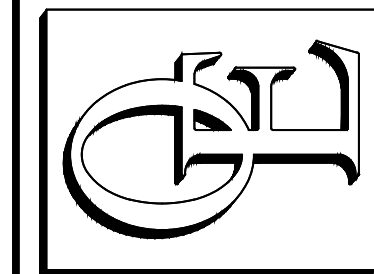


5S-3
SHEET 3 OF 05



**OCONEE
ENGINEERING L.L.C.**
*STRUCTURAL
ATHENS, GA /
LAKE OCONEE*

P: (770) 313-0302 F:(770) 200-2650
e-mail: admin@oconeeengineering.com
P.O. Box 116
Greensboro, GA 30642



10/10/2011

FOR:
THE CITY OF FOLKSTON
FOLKSTON GEORGIA
CHARLTON COUNTY, GEORGIA

[illegible]

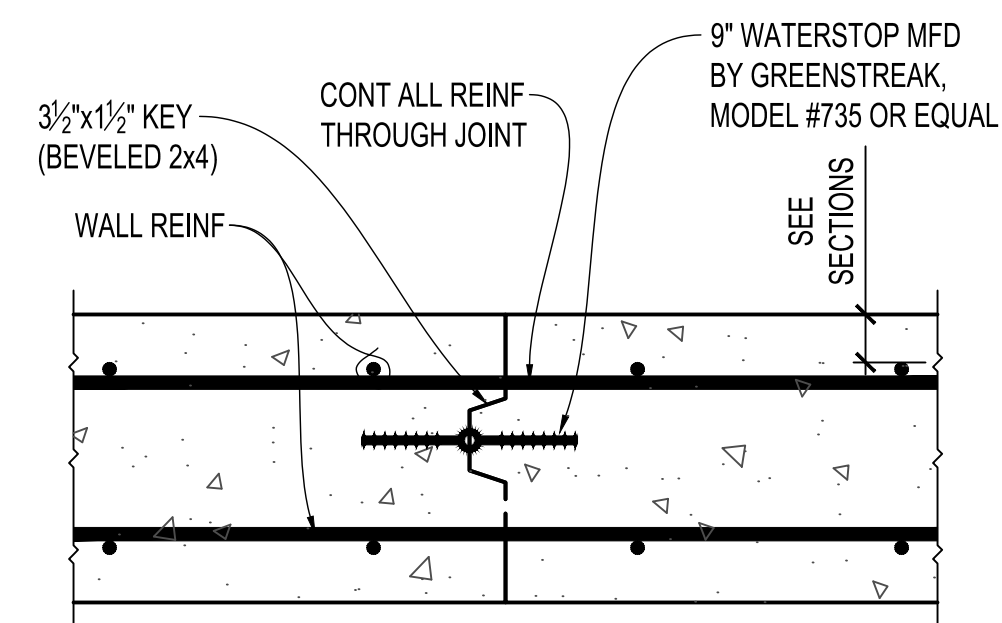
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 O'CONNOR ENGINEERING, L.L.C.

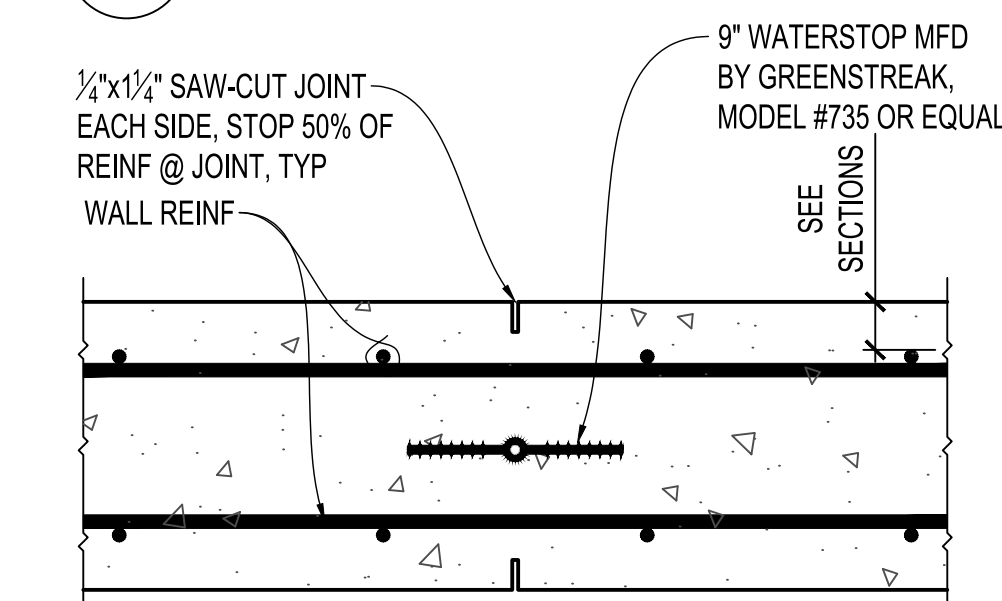
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SECTIONS

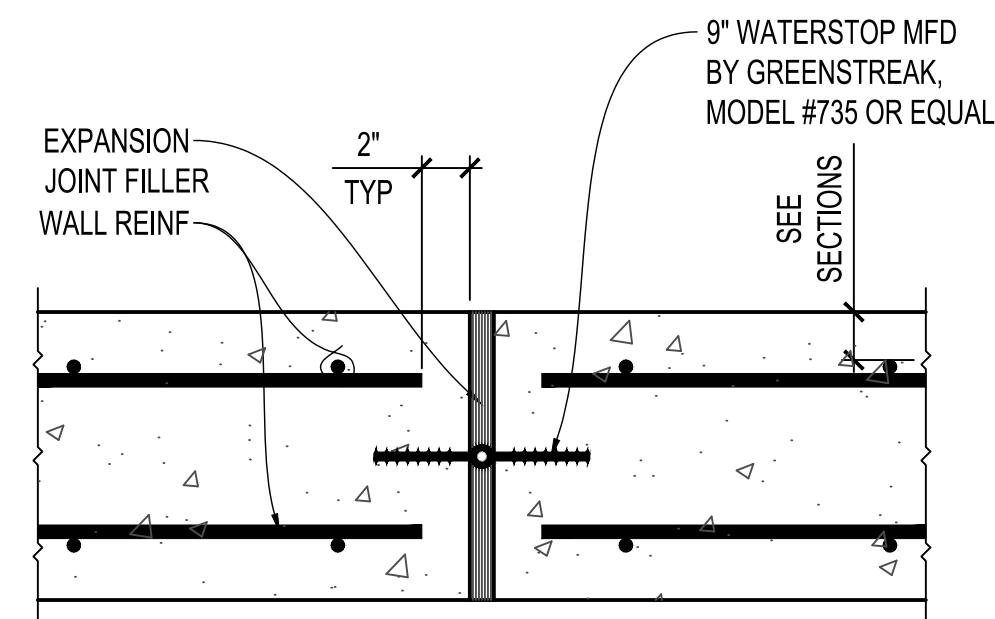
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SHEET 4 OF 05



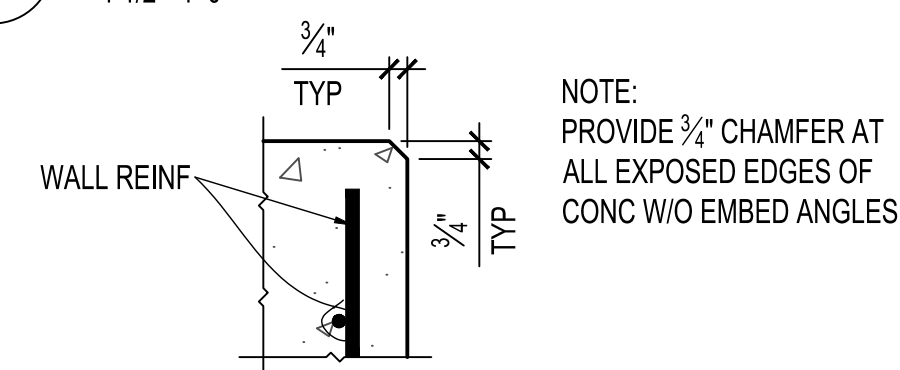
D1 CONC. CONST. JOINT DETAIL
1 1/2"=1'-0"



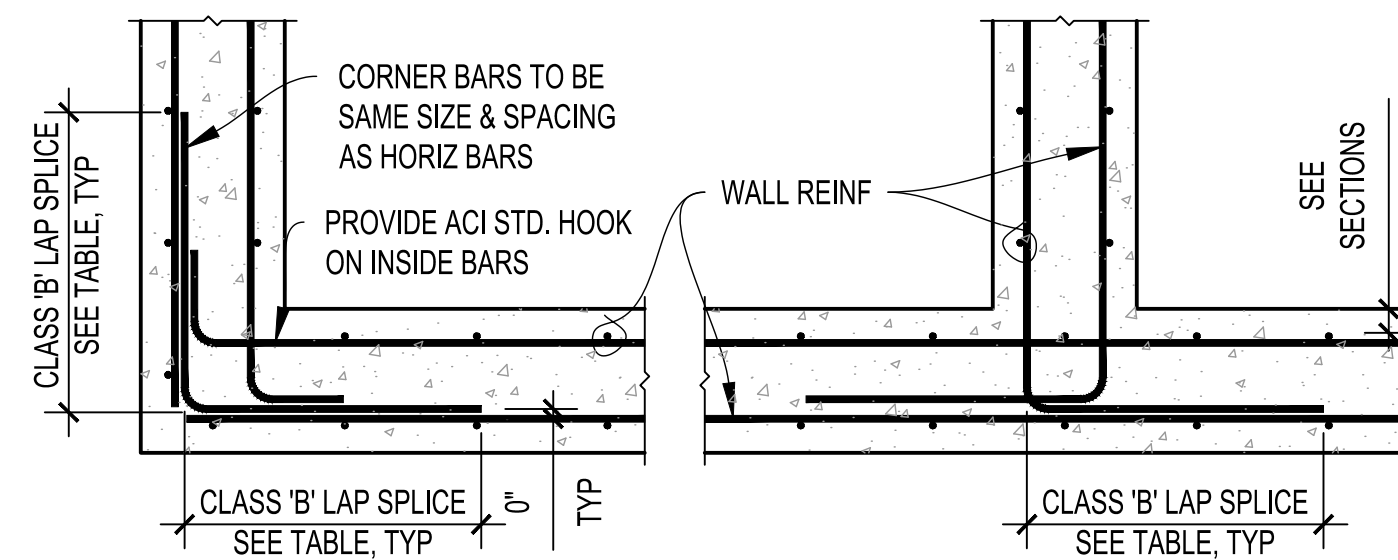
D2 CONC. CONTROL JOINT DETAIL



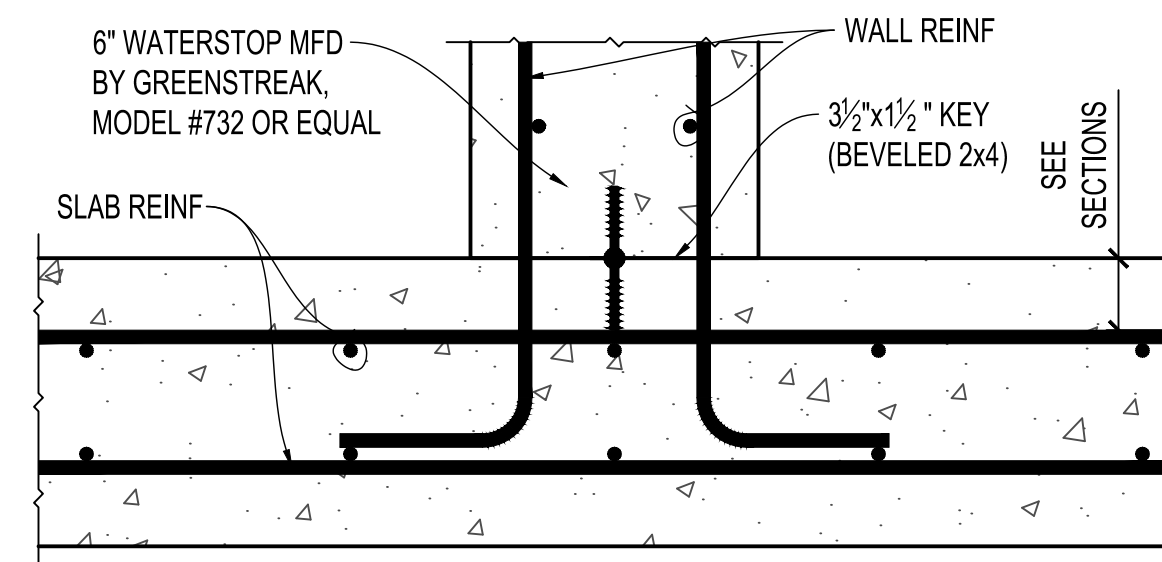
D3 CONC. EXP JOINT DETAIL
1 1/2"=1'-0"



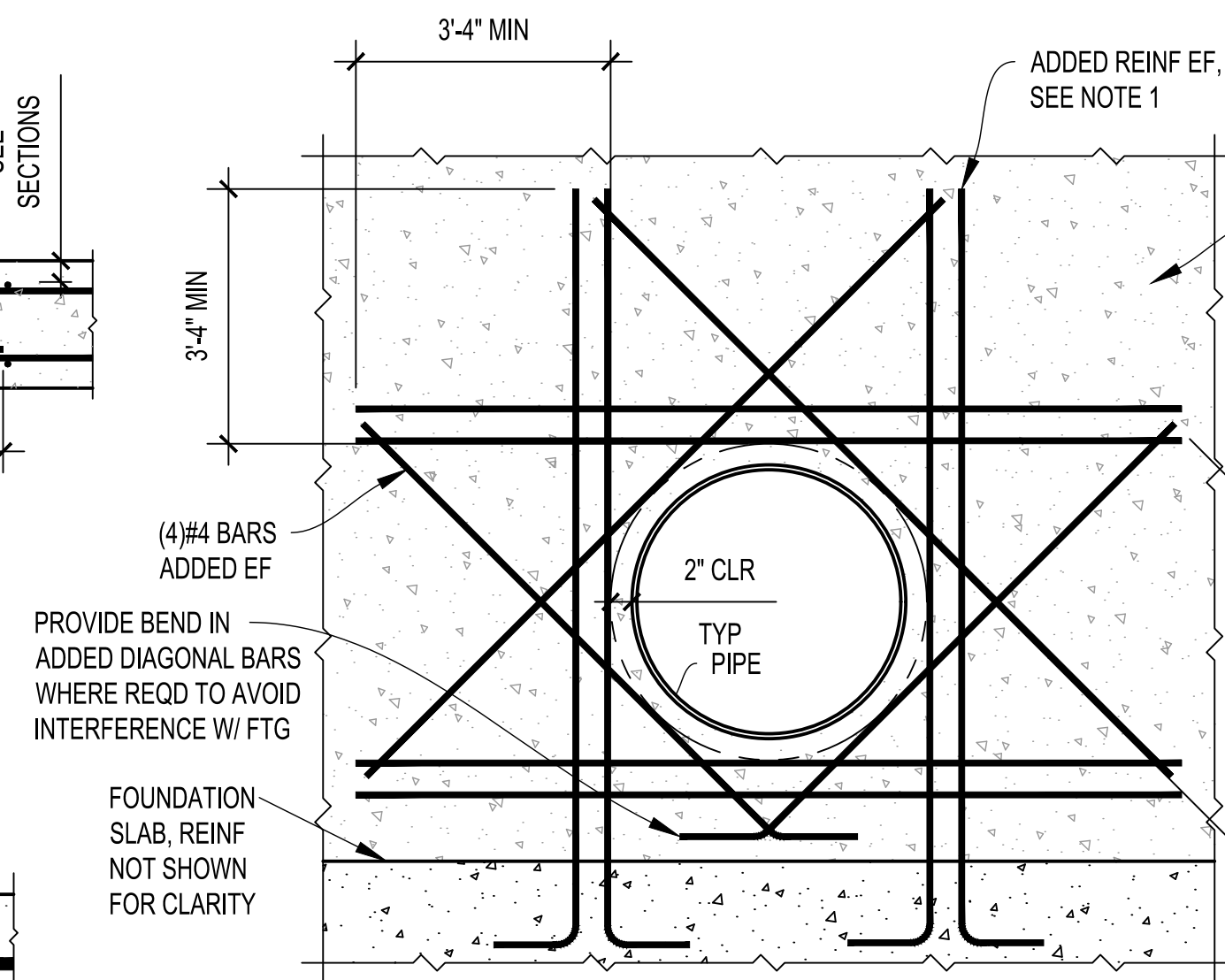
D4 CONC. CHAMFER DETAIL
1 1/2"=1'-0"



D5 TYP REINF @ WALL INTERSECTIONS
N.T.S.

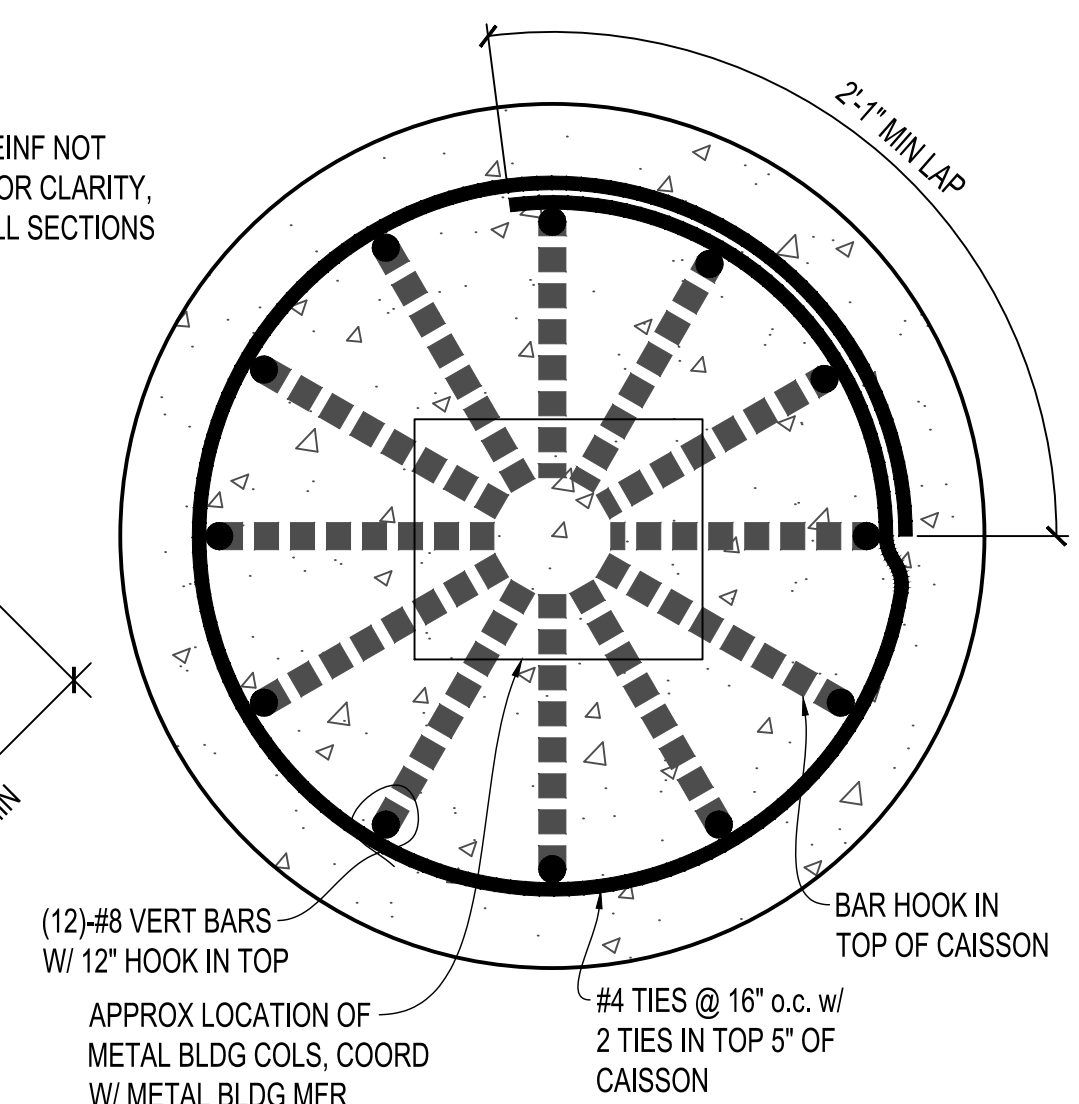


D6 WALL / FOUNDATION JOINT
1 1/2"=1'-0"

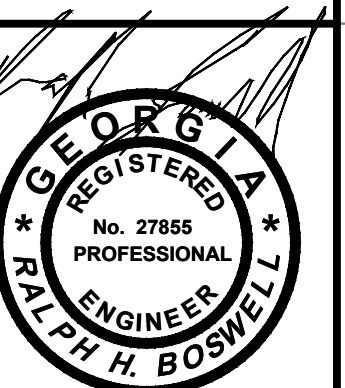
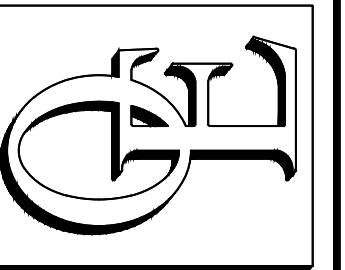


- NOTES:
1. THE EQUIVALENT NUMBER OF VERT & HORIZ BARS INTERRUPTED BY OPENINGS SHALL BE PROVIDED BY PLACING $\frac{1}{2}$ OF BARS ON EACH SIDE OF THE OPENING @3"OC.
 2. MAINTAIN NOT LESS THAN $\frac{1}{4}$ " CLEAR BETWEEN ADJACENT PARALLEL BARS.

D7 TYP WALL REINF @ PIPE OPENING
N.T.S.



D8 CAISSON REINFORCING
N.T.S.



10/10/2019

FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

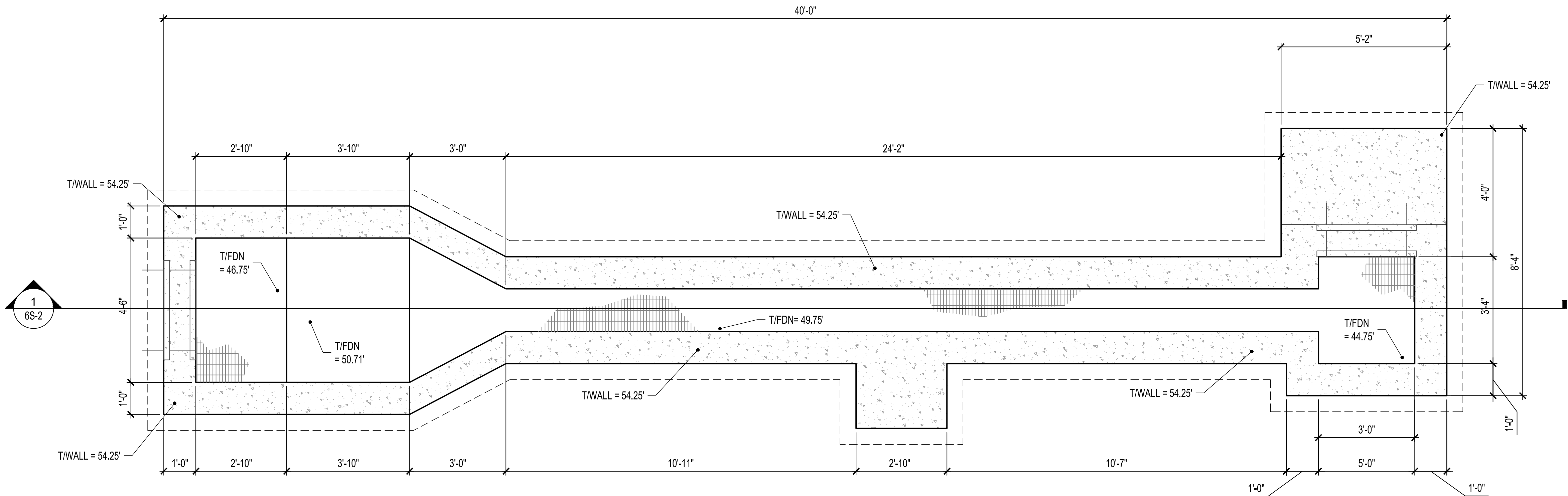
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FILE NAME: OE18132-SS-CORE	DRAWN:
ORIGINAL DRAWING SIZE: 36"x24"	CHECKED:
DATE: 6-14-2019	APPROVED:

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BOOK FILTERS

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1 UV CHANNEL PLAN
3/8"=1'-0"

STRUCTURE NOTES

- COORD ALL STRUCTURE & PIPING ELEVATIONS & DIMENSIONS W/ CIVIL DRAWINGS.
- ALL CONDUIT SHALL BE MOUNTED EXTERNALLY ON STRUCTURE USING HANGERS. FOR ANY CONDUIT PROPOSED TO BE PLACED IN THE CONCRETE POUR, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING PLACEMENT OF ANY CONDUIT IN CONCRETE STRUCTURE.
- COORDINATE ALL EXCAVATIONS W/ EXISTING STRUCTURES SO AS TO NOT UNDERMINE THEM. APPROPRIATE MEASURES SHALL BE TAKEN TO INSURE THAT EXISTING STRUCTURES ARE NOT UNDERMINED OR OTHERWISE DAMAGED DURING THE EXCAVATION OR CONSTRUCTION OF NEW STRUCTURES.
- SEISMIC DESIGN CRITERIA:
OCCUPANCY CATEGORY = IV
SEISMIC IMPORTANCE FACTOR (I_E) = 1.50
 $S_S = 0.127$ $S_1 = 0.067$
SITE CLASS = D
 $S_{DS} = 0.135$ $S_{D1} = 0.107$
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-05 TABLE 15.4-1 OR 15.4-2):
FLAT-BOTTOM GROUND SUPPORTED TANKS - REINFORCED NON-SLIDING BASE:
RESPONSE MODIFICATION FACTOR (R) = 2.0
SEISMIC RESPONSE COEFF. (C_S) = 0.1029
SEISMIC DESIGN CATEGORY = C
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

CONC REINF LAP LENGTH

4500 PSI (ACI 350-06)

BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	18"
#4	24"
#5	30"
#6	35"
#7	51"
#8	59"
#9	66"
#10	73"

FOUNDATION NOTES

- DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION AND STRUCTURAL ENGINEER SHALL BE NOTIFIED IF THE ACTUAL SOIL BEARING PRESSURE IS LOWER THAN THE DESIGN SOIL PRESSURE. FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON A SOILS REPORT PREPARED BY TERRACON CONSULTING, INC. (PROJECT# ES165069).
- DEWATER, UNDERCUT, & REPLACE MATERIAL BELOW FOOTING ELEVATIONS PER GEOTECH REPORT. GRANULAR BASE BELOW FOOTING SHALL BE #57 STONE.
- PRIOR TO POURING CONCRETE, ALL DEBRIS, WATER, AND LOOSE EARTH SHALL BE REMOVED FROM THE FOUNDATION BED.
- GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS, AND BACKFILLS PRIOR TO PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACKFILLS, ETC.
- BACKFILL AGAINST WALLS SHALL BE DEPOSITED EVENLY AGAINST BOTH SIDES OF WALLS UNTIL THE LOWER FINAL GRADE IS REACHED. COMPACTION OF BACKFILL WITHIN 10 FEET OF WALLS SHOULD BE PERFORMED WITH HAND OPERATED EQUIPMENT. THE BACKFILLING OF UNDERGROUND STRUCTURES SHALL BE DONE W/ A MAX OF 4'-0" INCREMENTS ALL AROUND THE STRUCTURES.
- PLACEMENT AND COMPACTION OF STRUCTURAL FILL SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER. COMPACTION SHALL BE 95% OF STANDARD PROCTOR.
- WHERE ANY UTILITY LINES PASS UNDER A FOOTING, PROVIDE A PRE-CAST CONCRETE RELIEVING ARCH, A MINIMUM OF THREE TIMES THE DIAMETER OF THE UTILITY PIPE FOR PROTECTION.

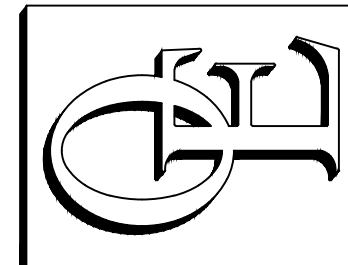
CONCRETE NOTES

- MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS SHALL BE 4500 PSI FOR WALLS AND SLABS IN LIQUID CONTAINING VESSELS.
- MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS SHALL BE 3000 PSI FOR CAISSONS AND SLABS-ON-GRADE.
- STRUCTURAL MEMBERS OF REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-11.
- PROVIDE $\frac{3}{4}$ " CHAMFER AT ALL EXPOSED CORNERS OF CONCRETE W/O EMBED ANGLES.
- PLACE ALL REBAR FOR WALLS & SLABS IN DIRECTIONS & LOCATIONS AS SHOWN IN TANK SECTIONS. DO NOT REVERSE LOCATIONS OF INSIDE/OUTSIDE BARS AT EACH FACE.
- CONCRETE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-11. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 75 CY OF CONCRETE USED FOR FOOTINGS, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS. TEST REPORTS INDICATING (NON)COMPLIANCE SHALL BE PROVIDED TO THE OWNER, ENGINEER & CONTRACTOR. A COPY OF THE TEST REPORTS SHALL BE AVAILABLE AT THE JOBSITE. 4 INCH DIAMETER X 8 INCH TEST CYLINDERS ARE ACCEPTABLE.

REINFORCING STEEL NOTES

- SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- MATERIALS:
 - REINFORCING BARS SHALL COMPLY WITH ASTM A615 GRADE 60.
 - WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A82 AND A185.
 - REINFORCING BARS FOR WELDING SHALL COMPLY WITH ASTM A-706.
- CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS INDICATED ON THE DRAWINGS BUT SHALL NOT BE LESS THAN THE FOLLOWING:
 - CONCRETE PLACED AGAINST EXPOSED EARTH (NOT FORMED) = 3"
 - FORMED SURFACES EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
SLABS & JOISTS W/ #5 BARS & SMALLER = $\frac{1}{2}$ "
SLABS & JOISTS W/ #6 BARS & LARGER = 2"
BEAMS, PIERS, COLUMNS, WALLS, FOOTINGS, & BASE SLABS = 2"
 - FORMED SURFACES NOT EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
SLABS & JOISTS = $\frac{3}{4}$ "
BEAMS, PIERS, & COLUMNS = $\frac{1}{2}$ "
WALLS = $\frac{3}{2}$ "
FOOTINGS & BASE SLABS = 2"

OCONEE ENGINEERING L.L.C.
ATLANTA, GA
LAKE OCONEE
P: (770) 313-0302 F: (770) 200-2650
e-mail: admin@oconeengineering.com



FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

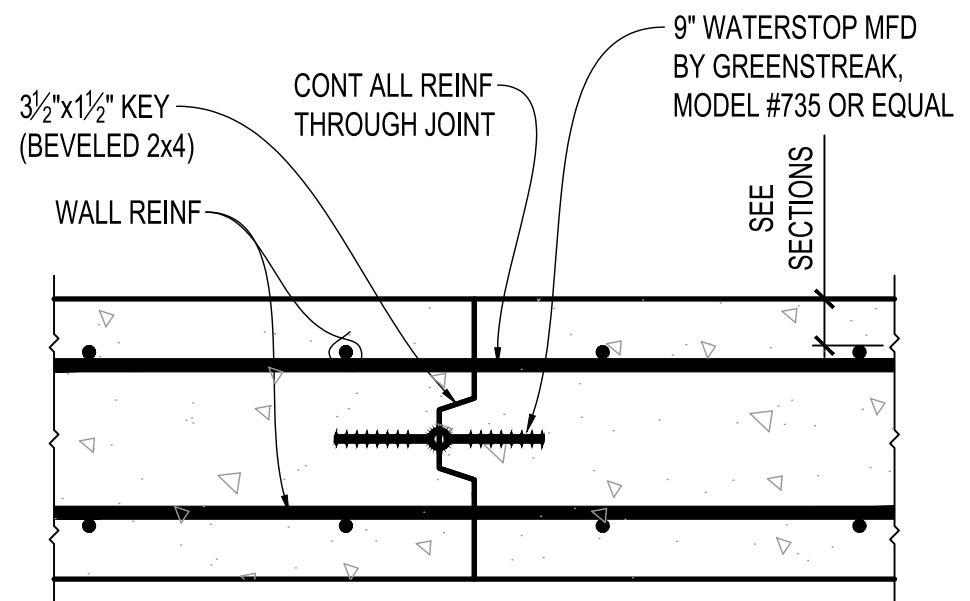
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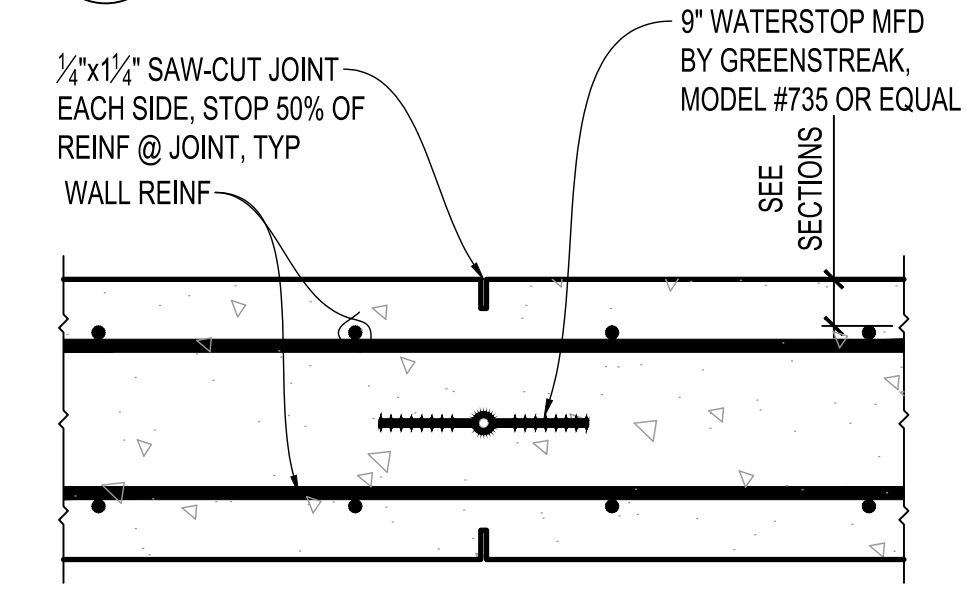
UV CHANNEL
PLAN, NOTES,
& SPECIFICATIONS

6S-1
SHEET 1 OF 03

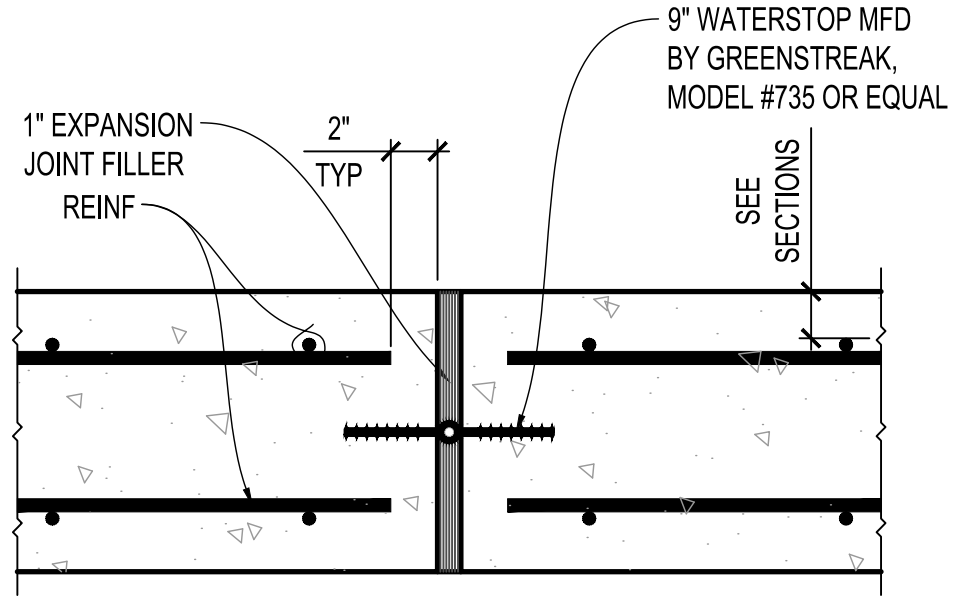
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2. PRINTED BY: RALPH H. BOSWELL, DATE: October 11, 2019 11:32:13 AM
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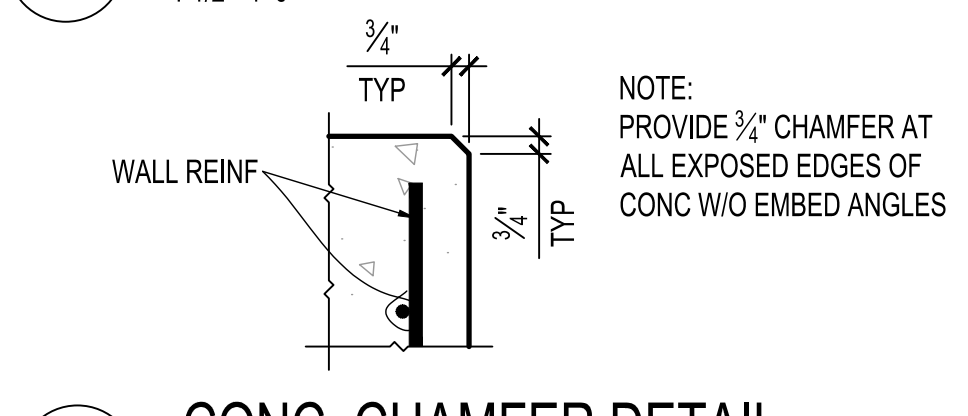
D1 CONC. CONST. JOINT DETAIL
1 1/2"=1'-0"



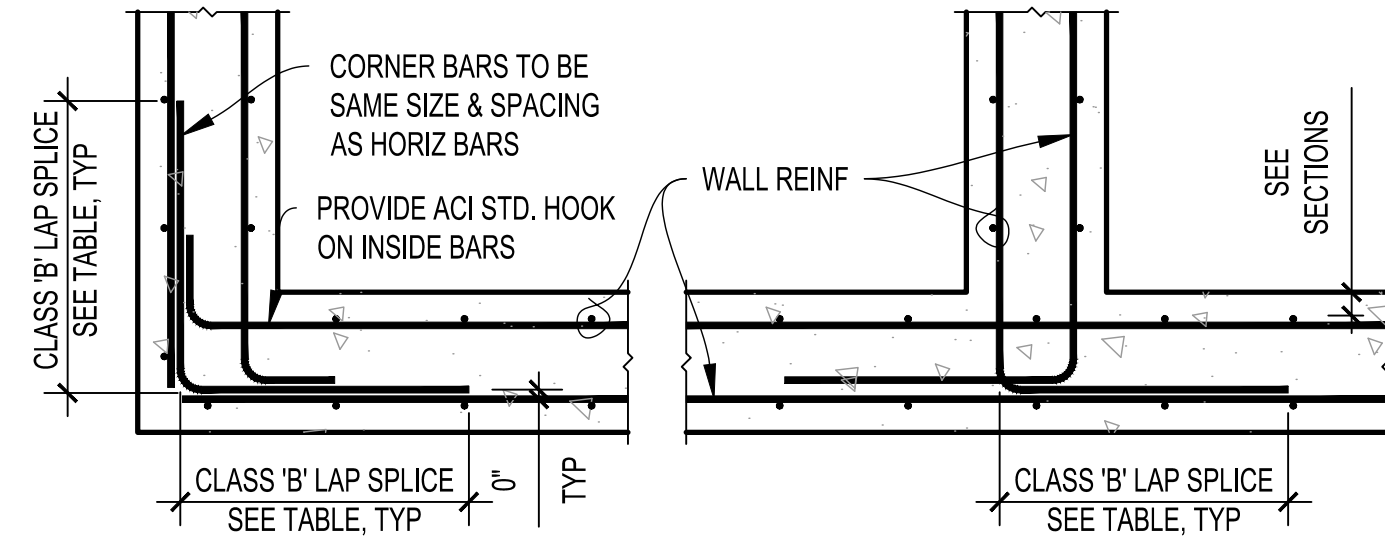
D2 CONC. CONTROL JOINT DETAIL
1 1/2"=1'-0"



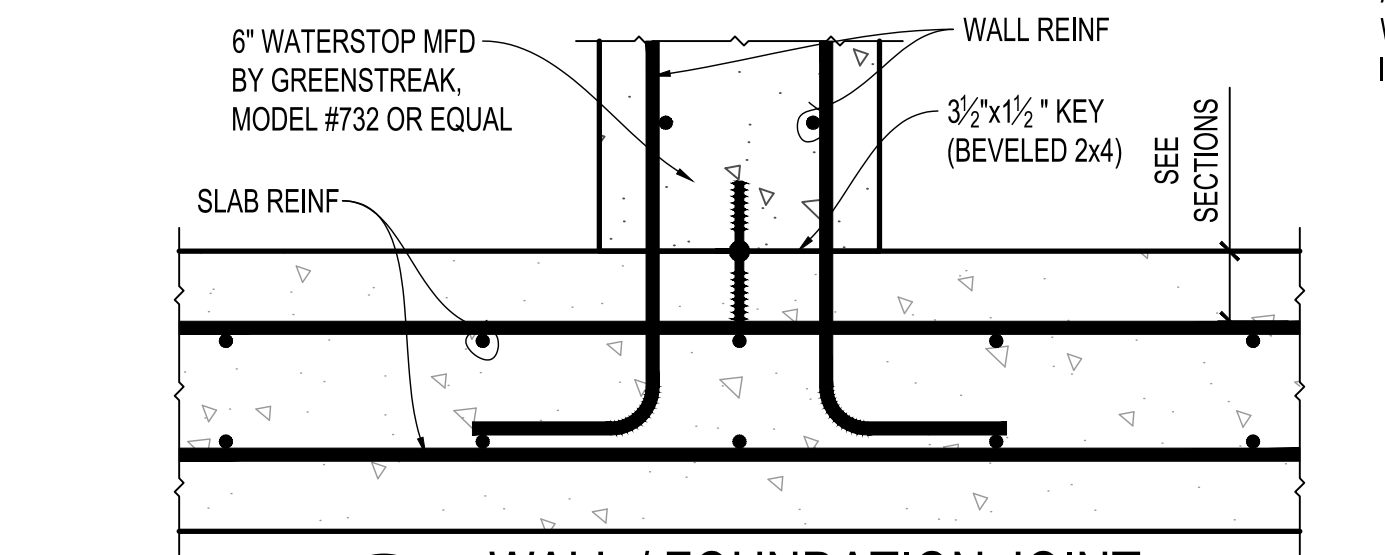
D3 CONC. EXP JOINT DETAIL
1 1/2"=1'-0"



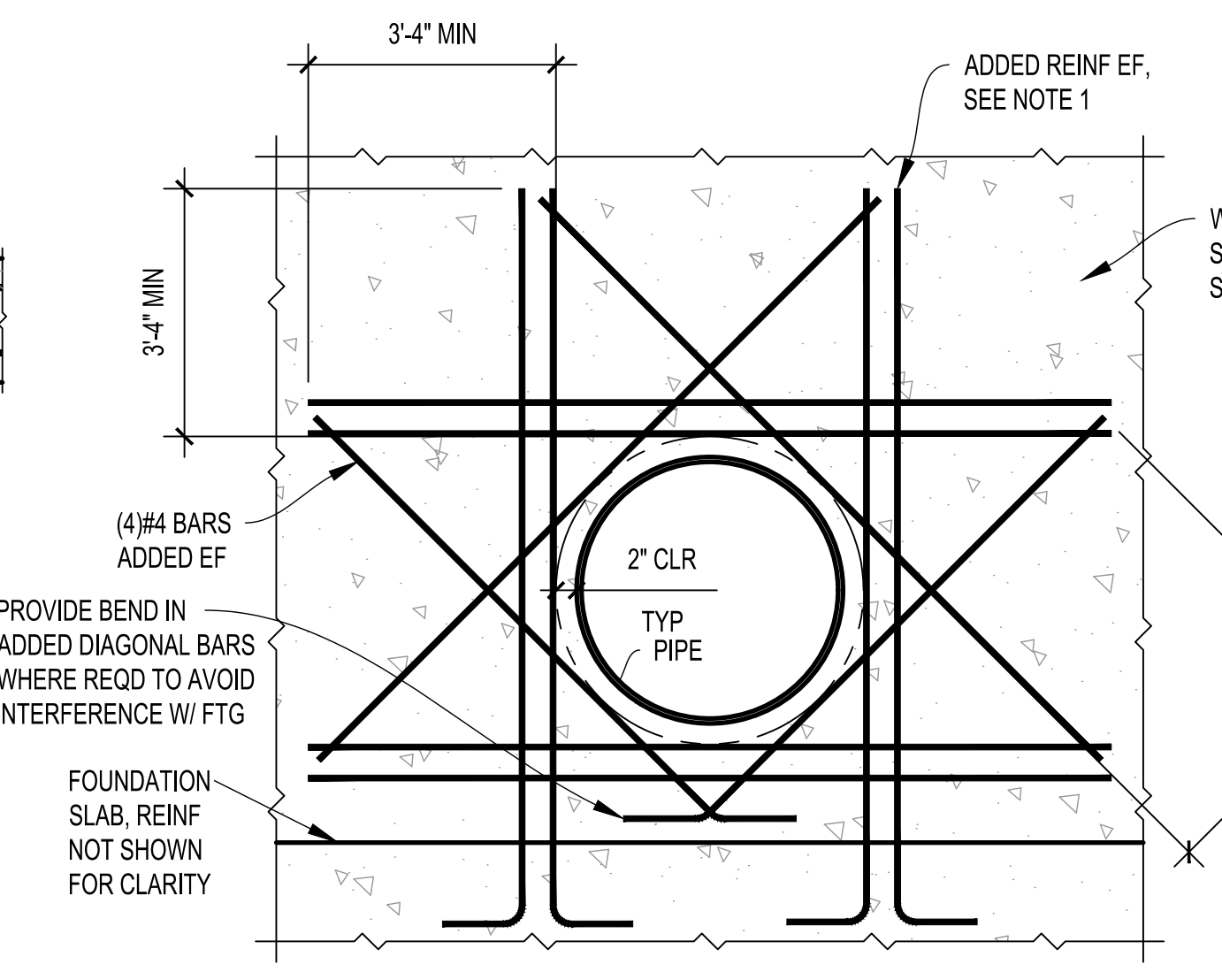
D4 CONC. CHAMFER DETAIL
1 1/2"=1'-0"



D5 TYP REINF @ WALL INTERSECTIONS
N.T.S.

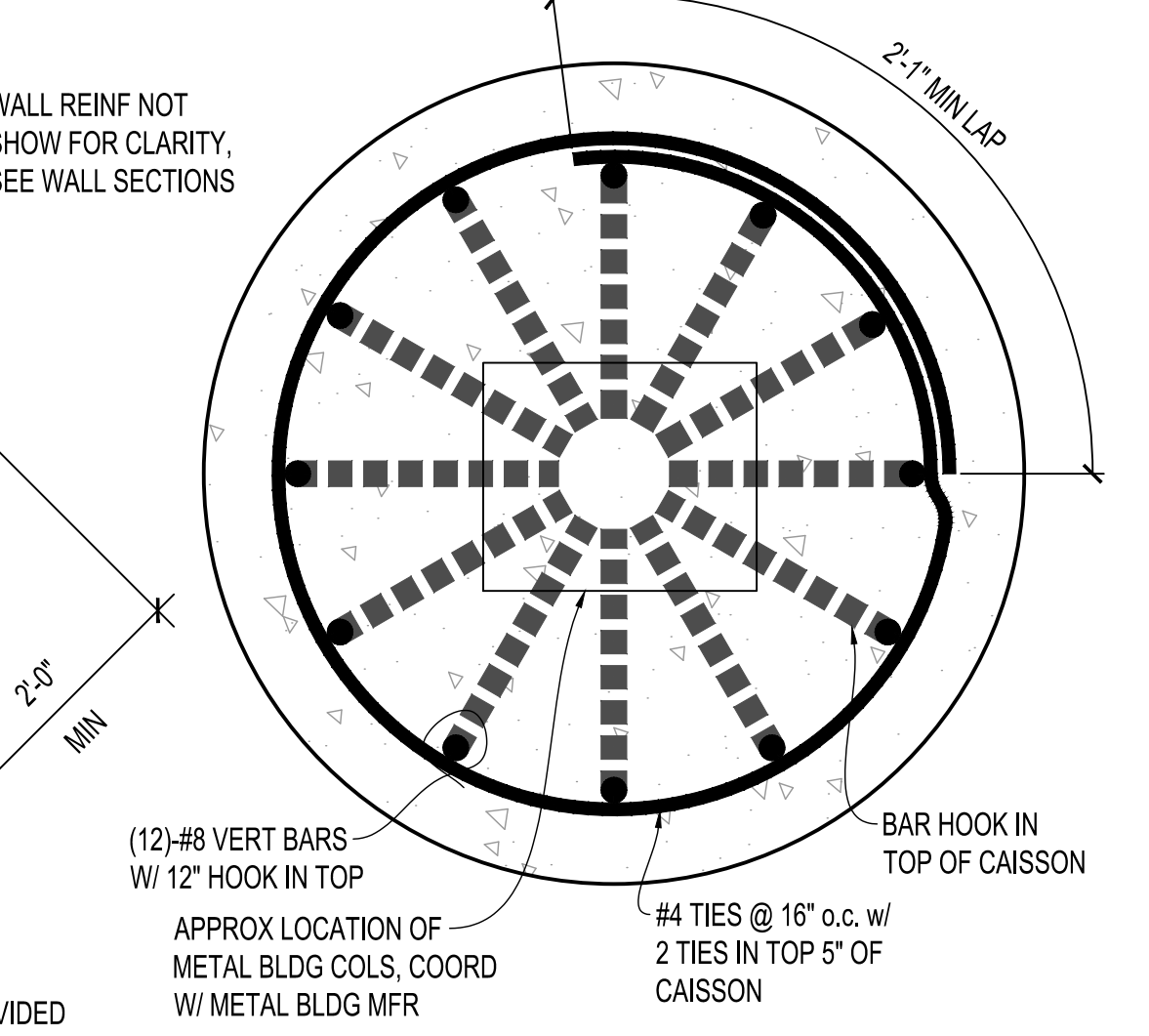


D6 WALL / FOUNDATION JOINT
1 1/2"=1'-0"



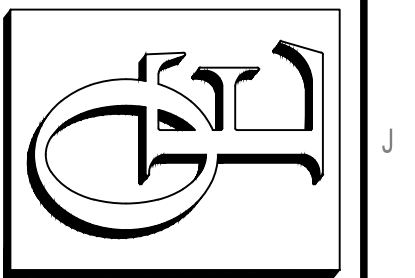
- NOTES:
1. THE EQUIVALENT NUMBER OF VERT & HORIZ BARS INTERRUPTED BY OPENINGS SHALL BE PROVIDED BY PLACING 1/2 OF BARS ON EACH SIDE OF THE OPENING @ 3"OC.
 2. MAINTAIN NOT LESS THAN 1/2" CLEAR BETWEEN ADJACENT PARALLEL BARS.

D7 TYP WALL REINF @ PIPE OPENING
N.T.S.



D8 CAISSON REINFORCING
N.T.S.

OCONEE
ENGINEERING L.L.C.
ATTORNEYS AT LAW
LAW OFFICES
P.O. Box 116
Greensboro, GA 30642
P: (770) 313-0302 F: (770) 200-2650
e-mail: admin@oconeengineering.com



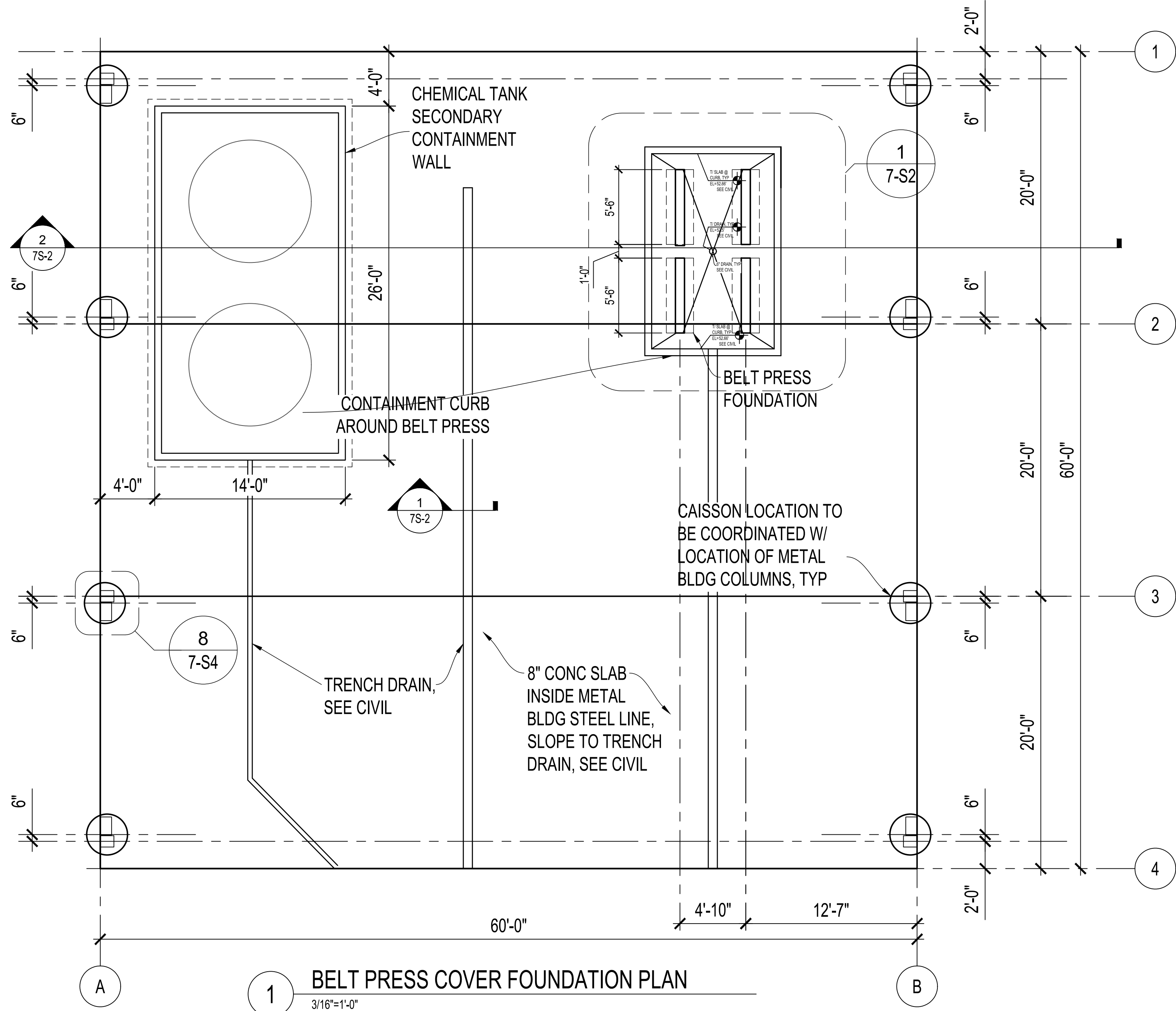
FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
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	07-26-2019		85% SET FOR REVIEW
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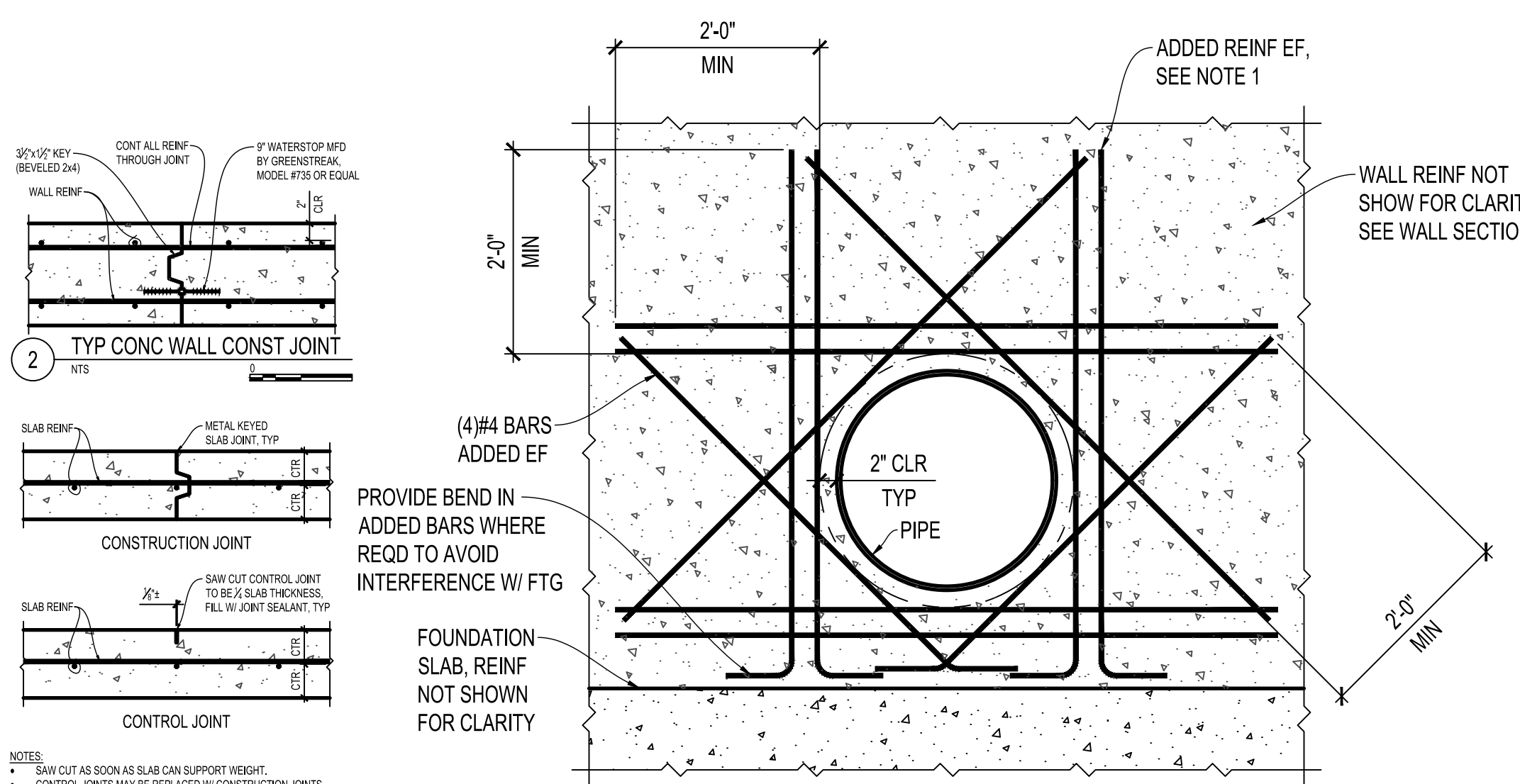
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DATE: 6-14-2019
CHECKED:
APPROVED:
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UV CHANNEL
DETAILS

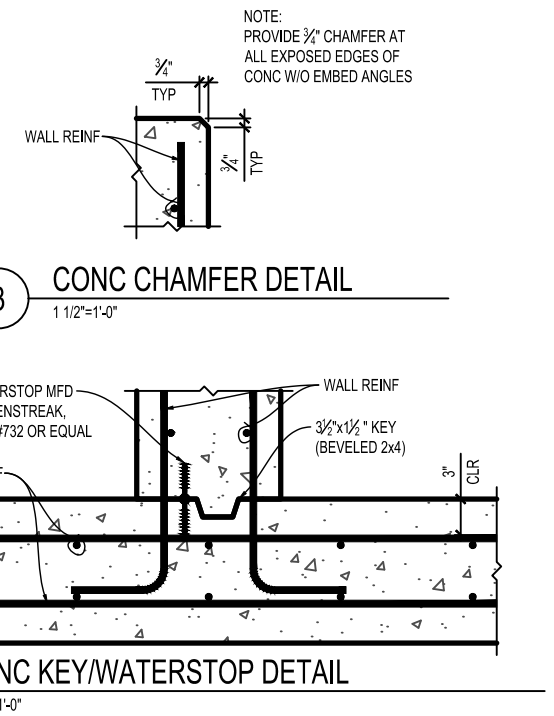
NOTES:
1. ALL DIMENSIONS UNLESS OTHERWISE NOTED.
2. ALL CONCRETE SHALL BE 4000 PSI STRENGTH.
3. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
4. ALL WELDED WIRE FABRIC SHALL BE ASTM A185.
5. ALL CONCRETE SHALL BE PLACED AGAINST EXPOSED EARTH (NOT FORMED) = 3".
6. ALL FORMED SURFACES EXPOSED TO EARTH, LIQUIDS, OR WEATHER: SLABS & JOISTS W/ #6 BARS & LARGER = 2" BEAMS, PIERS, COLUMNS, WALLS, FOOTINGS, & BASE SLABS = 2" FORMED SURFACES NOT EXPOSED TO EARTH, LIQUIDS, OR WEATHER: SLABS & JOISTS = 3/4" BEAMS, PIERS, & COLUMNS = 1 1/2" WALLS = 3/4" FOOTINGS & BASE SLABS = 2"



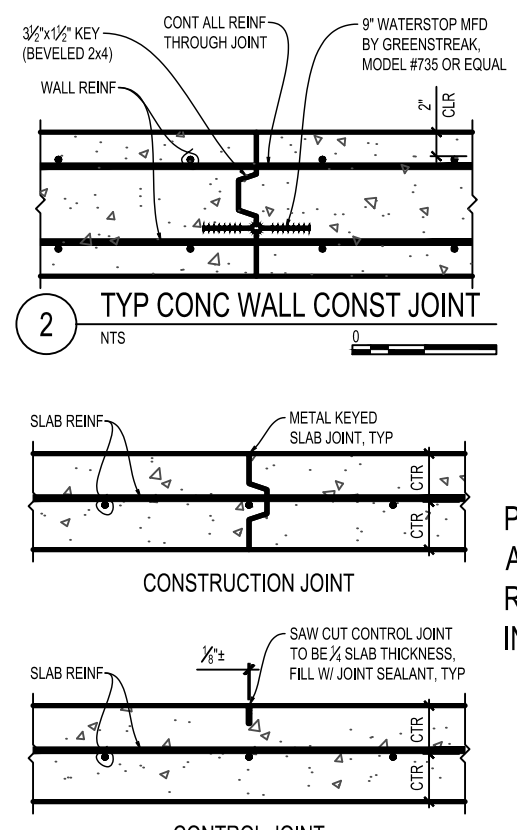
1 BELT PRESS COVER FOUNDATION PLAN
3 1/16"=1'-0"
3/4"=1'-0"



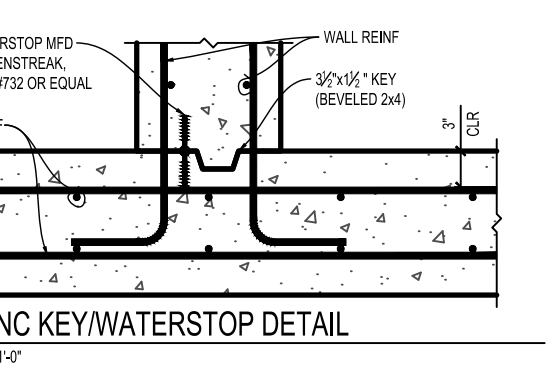
6 TYP WALL REINF @ PIPE OPENING DETAIL
NTS



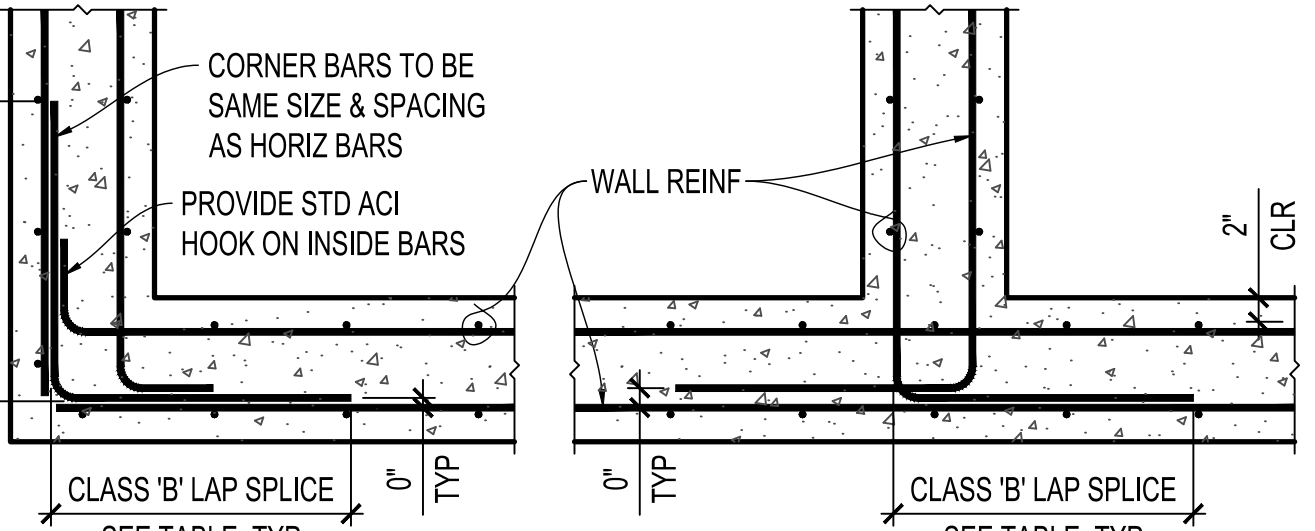
4 TYP REINF @ WALL INTERSECTIONS DETAIL
NTS



2 TYP CONC WALL CONST JOINT
NTS



5 CONC KEY/WATERSTOP DETAIL
1 1/2"=1'-0"



4 TYP REINF @ WALL INTERSECTIONS DETAIL
NTS

STRUCTURE NOTES

- COORD ALL STRUCTURE & PIPING ELEVATIONS & DIMENSIONS W/ MECHANICAL DRAWINGS.
- ALL CONDUIT SHALL BE MOUNTED EXTERNALLY ON STRUCTURE USING HANGERS. FOR ANY CONDUIT PROPOSED TO BE PLACED IN THE CONCRETE POUR, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING PLACEMENT OF ANY CONDUIT IN CONCRETE STRUCTURE.
- CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF CONSTRUCTION JOINTS FOR APPROVAL BY ENGINEER OF RECORD PRIOR TO BEGINNING WORK.
- COORDINATE ALL EXCAVATIONS W/ EXISTING STRUCTURES SO AS TO NOT UNDERMINE THEM. APPROPRIATE MEASURES SHALL BE TAKEN TO INSURE THAT EXISTING STRUCTURES ARE NOT UNDERMINED OR OTHERWISE DAMAGED DURING THE EXCAVATION OR CONSTRUCTION OF NEW STRUCTURES.
- SEISMIC DESIGN CRITERIA:
OCCUPANCY CATEGORY = IV
SEISMIC IMPORTANCE FACTOR (I_e) = 1.50
 $S_s = 0.127$ $S_1 = 0.067$
SITE CLASS = D
 $S_{DS} = 0.135$ $S_{D1} = 0.107$
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-05 TABLE 15.4-1 OR 15.4-2):
FLAT-BOTTOM GROUND SUPPORTED TANKS - REINFORCED NON-SLIDING BASE:
RESPONSE MODIFICATION FACTOR (R) = 2.0
SEISMIC RESPONSE COEFF. (C_s) = 0.2926
SEISMIC DESIGN CATEGORY = C 0.1029
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

REINFORCING STEEL NOTES

- SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- MATERIALS:
 - REINFORCING BARS SHALL COMPLY WITH ASTM A615 GRADE 60.
 - WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A82 AND A185.
 - REINFORCING BARS FOR WELDING SHALL COMPLY WITH ASTM A-706.
- CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS INDICATED ON THE DRAWINGS BUT SHALL NOT BE LESS THAN THE FOLLOWING:
 - CONCRETE PLACED AGAINST EXPOSED EARTH (NOT FORMED) = 3"
 - FORMED SURFACES EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
SLABS & JOISTS W/ #5 BARS & SMALLER = 1 1/2"
SLABS & JOISTS W/ #6 BARS & LARGER = 2"
BEAMS, PIERS, COLUMNS, WALLS, FOOTINGS, & BASE SLABS = 2"
 - FORMED SURFACES NOT EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
SLABS & JOISTS = 3/4"
BEAMS, PIERS, & COLUMNS = 1 1/2"
WALLS = 3/4"
FOOTINGS & BASE SLABS = 2"

FOUNDATION NOTES

- FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON A SOILS REPORT PREPARED BY TERRACON CONSULTANTS, INC. (PROJECT # ES165069). ALLOWABLE BEARING CAPACITY SHALL BE VERIFIED AT TIME OF EXCAVATION AND STRUCTURAL ENGINEER SHALL BE NOTIFIED IF THE ACTUAL SOIL BEARING PRESSURE IS LOWER THAN THE DESIGN SOIL PRESSURE.
- DEWATER, UNDERCUT, & REPLACE MATERIAL BELOW FOOTING ELEVATIONS PER GEOTECH REPORT. GRANULAR BASE BELOW FOOTING SHALL BE #57 STONE.
- PRIOR TO POURING CONCRETE, ALL DEBRIS, WATER, AND LOOSE EARTH SHALL BE REMOVED FROM THE FOUNDATION BED.
- GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS, AND BACKFILLS PRIOR TO PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACKFILLS, ETC.
- BACKFILL AGAINST WALLS SHALL BE DEPOSITED EVENLY AGAINST BOTH SIDES OF WALLS UNTIL THE LOWER FINAL GRADE IS REACHED. COMPACTION OF BACKFILL WITHIN 10 FEET OF WALLS SHOULD BE PERFORMED WITH HAND OPERATED EQUIPMENT. THE BACKFILLING OF UNDERGROUND STRUCTURES SHALL BE DONE W/ A MAX OF 4'-0" INCREMENTS ALL AROUND THE STRUCTURES.
- PLACEMENT AND COMPACTION OF STRUCTURAL FILL SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER. COMPACTION SHALL BE 95% OF STANDARD PROCTOR.
- WHERE ANY UTILITY LINES PASS UNDER A FOOTING, PROVIDE A PRE-CAST CONCRETE RELIEVING ARCH, A MINIMUM OF THREE TIMES THE DIAMETER OF THE UTILITY PIPE FOR PROTECTION.

CONCRETE NOTES

- MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS SHALL BE 4500 PSI FOR WALLS AND SLABS IN LIQUID CONTAINING VESSELS.
- STRUCTURAL MEMBERS OF REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-11.
- PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS OF CONCRETE W/ EMBED ANGLES.
- PLACE ALL REBAR FOR WALLS & SLABS IN DIRECTIONS & LOCATIONS AS SHOWN IN TANK SECTIONS. DO NOT REVERSE LOCATIONS OF INSIDE/OUTSIDE BARS AT EACH FACE.
- CONCRETE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-11. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 75 CY OF CONCRETE USED FOR FOOTINGS, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS. TEST REPORTS INDICATING (NON)COMPLIANCE SHALL BE PROVIDED TO THE OWNER, ENGINEER & CONTRACTOR. A COPY OF THE TEST REPORTS SHALL BE AVAILABLE AT THE JOBSITE. 4 INCH DIAMETER X 8 INCH TEST CYLINDERS ARE ACCEPTABLE.

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REGISTERED PROFESSIONAL ENGINEER
No. 27855
RALPH H. BOSWELL

10/10/2019

FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
	10-10-2019		EPD SUBMITTAL
	07-14-2019		85% SET FOR REVIEW
	06-14-2019		85% SET FOR REVIEW

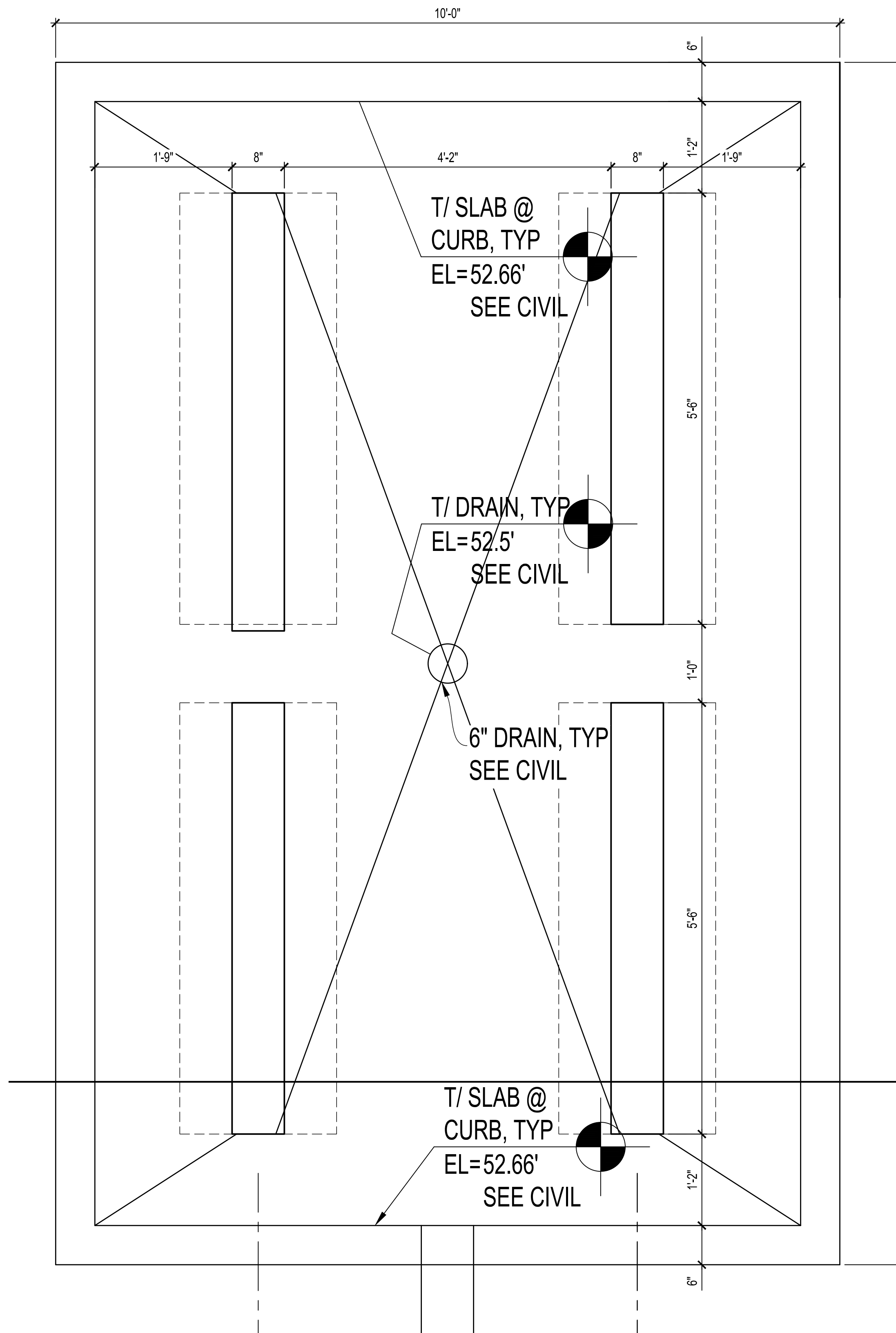
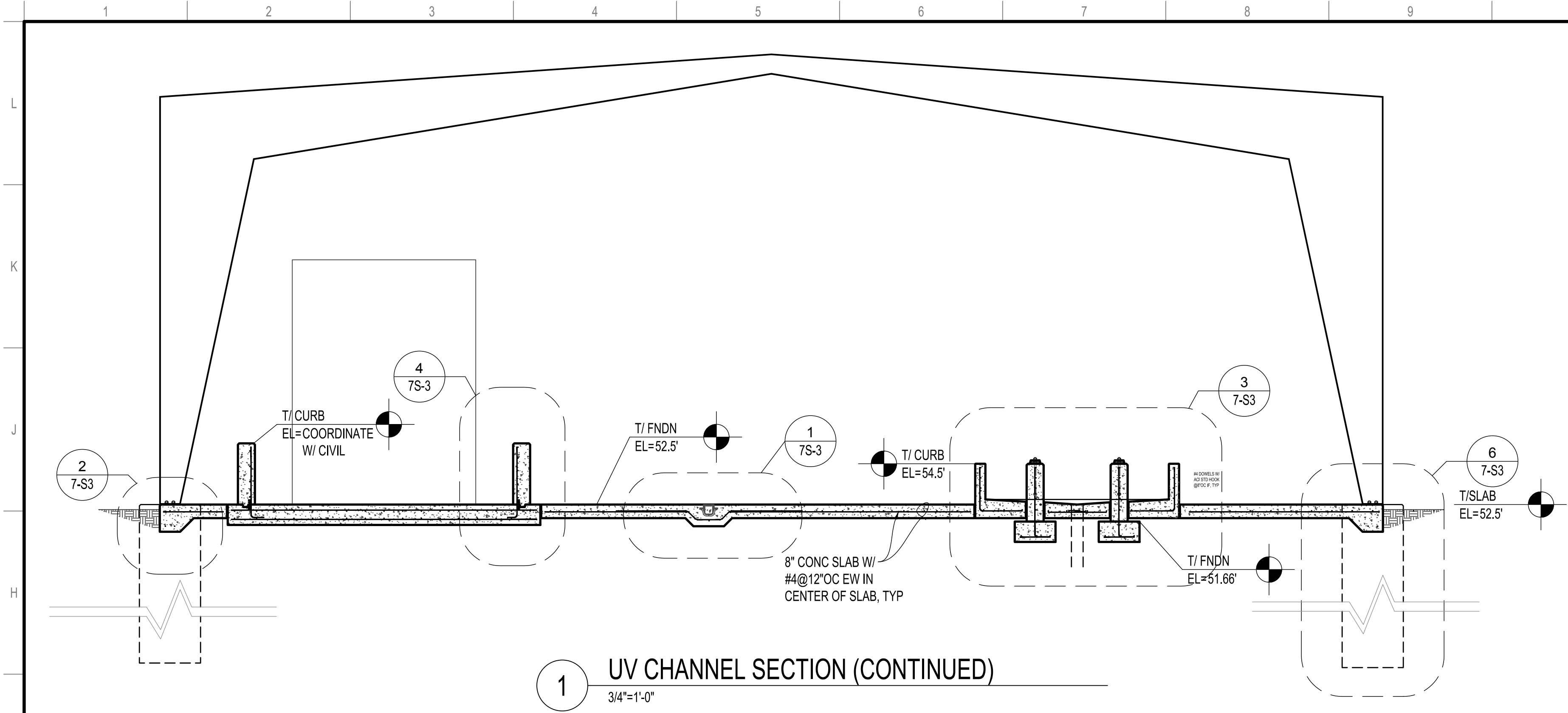
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ORIGINAL DRAWING SIZE: 36"x24"
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BELT PRESS & CHEMICAL STORAGE
PLAN, NOTES, & DETAILS

7S-1
SHEET 1 OF 03

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10/10/2019
FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
	10/10/2019		EPD SUBMITTAL
	07/24/2019		85% SET FOR REVIEW
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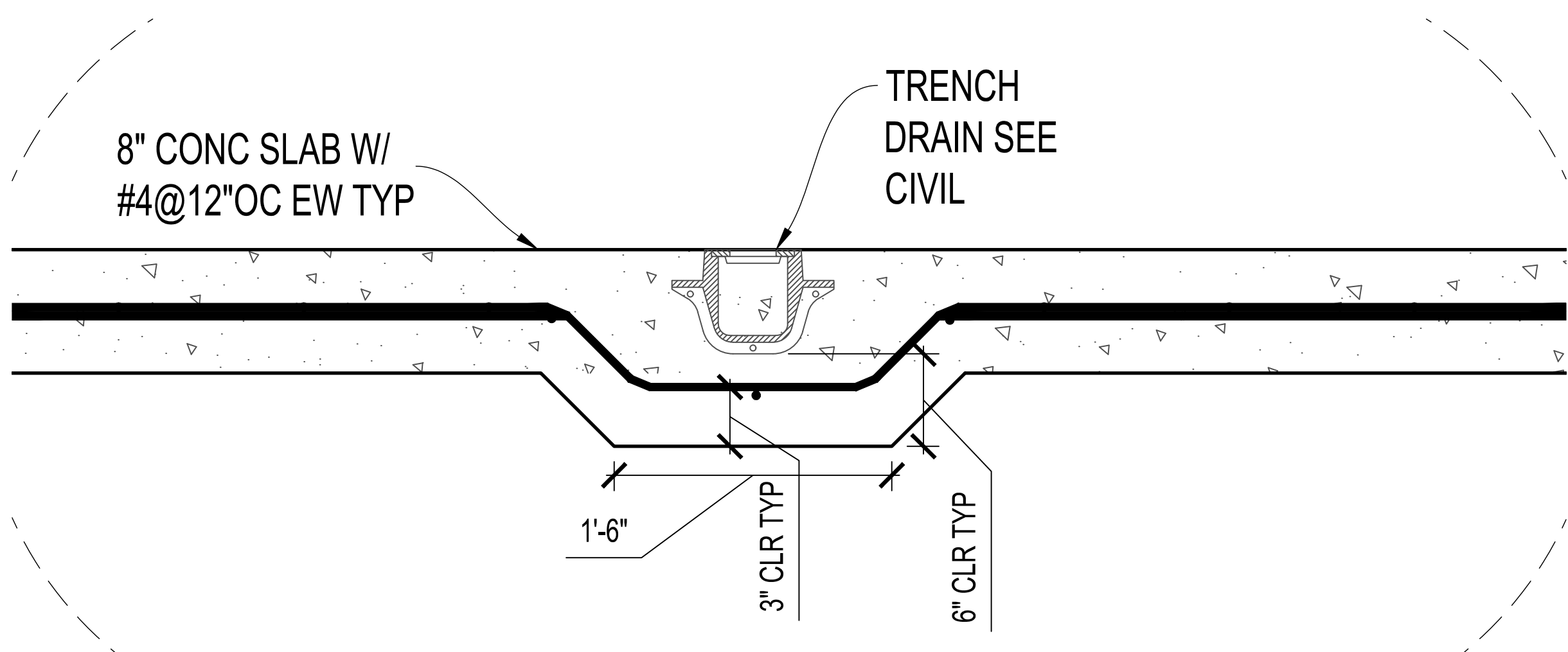
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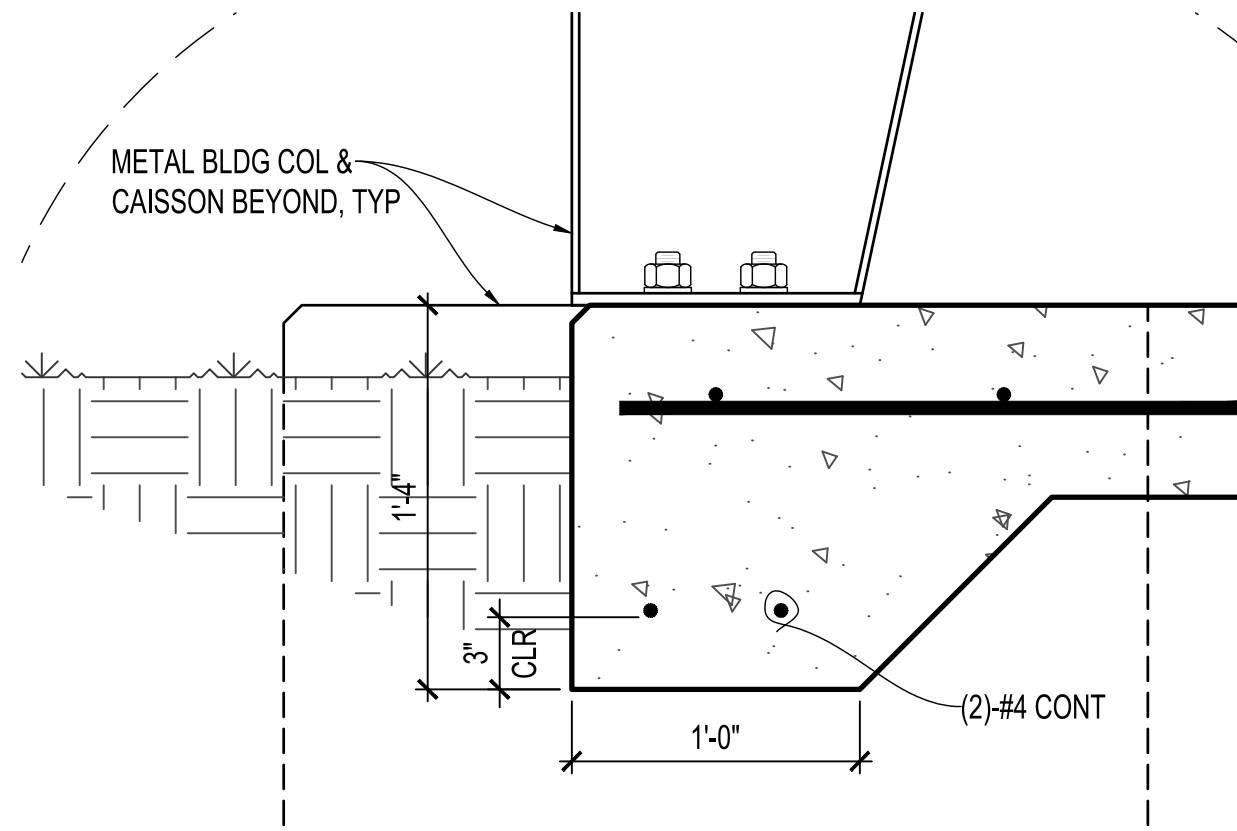
PLANS & SECTIONS

7S-2
SHEET 2 OF 03

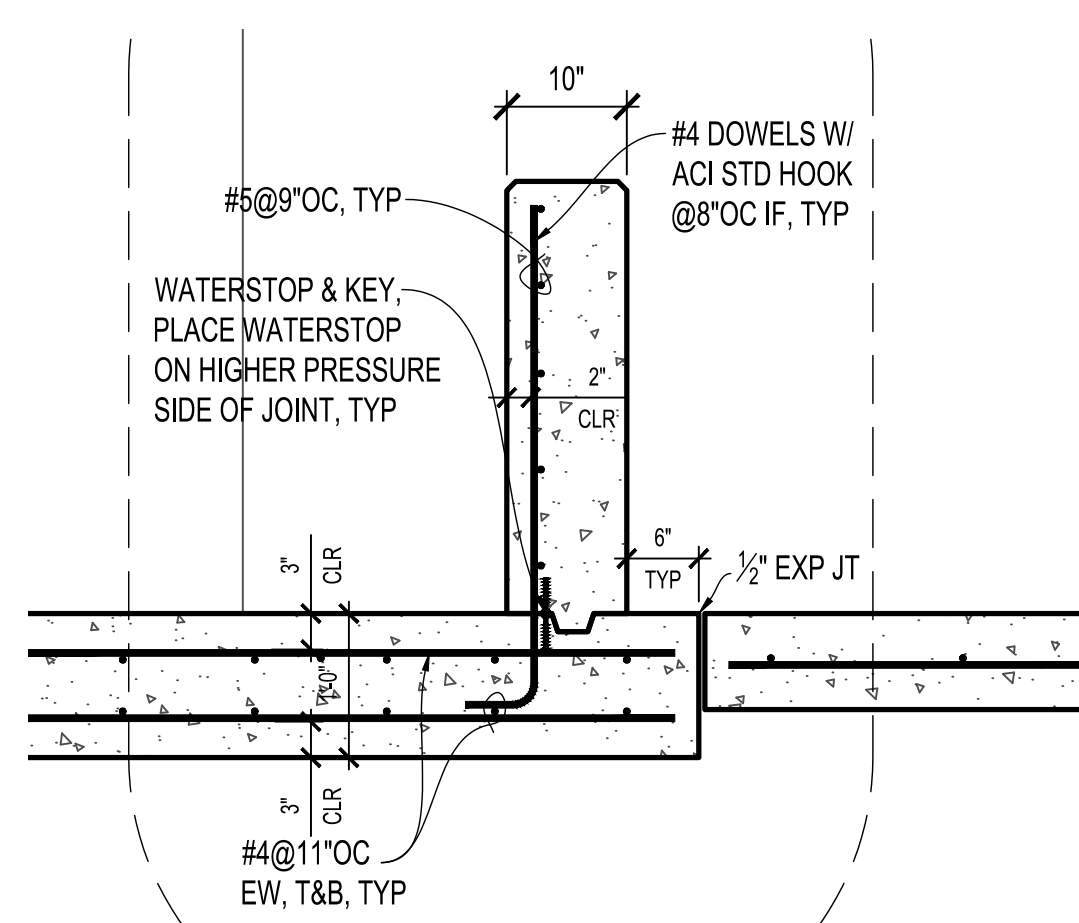
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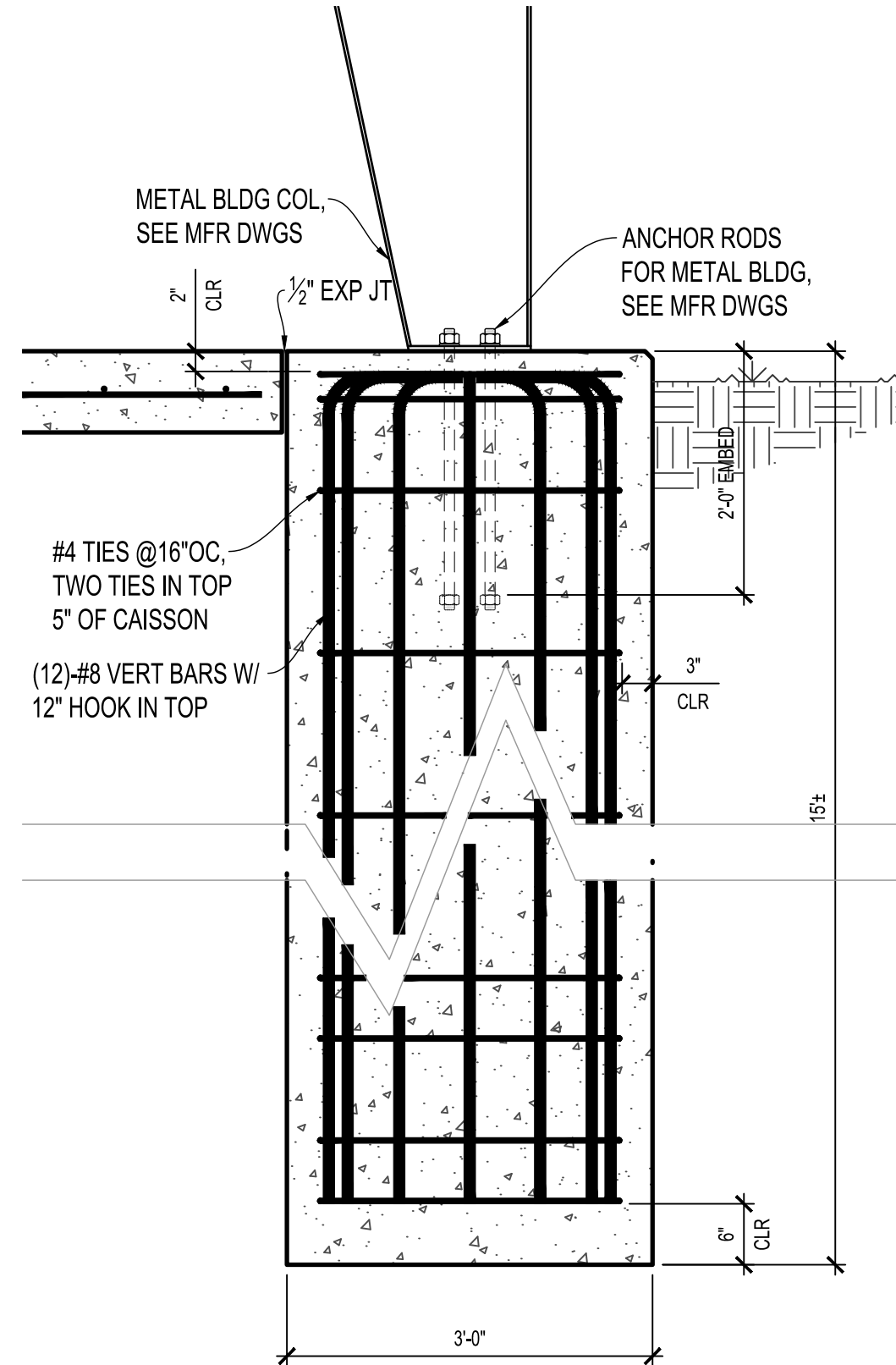
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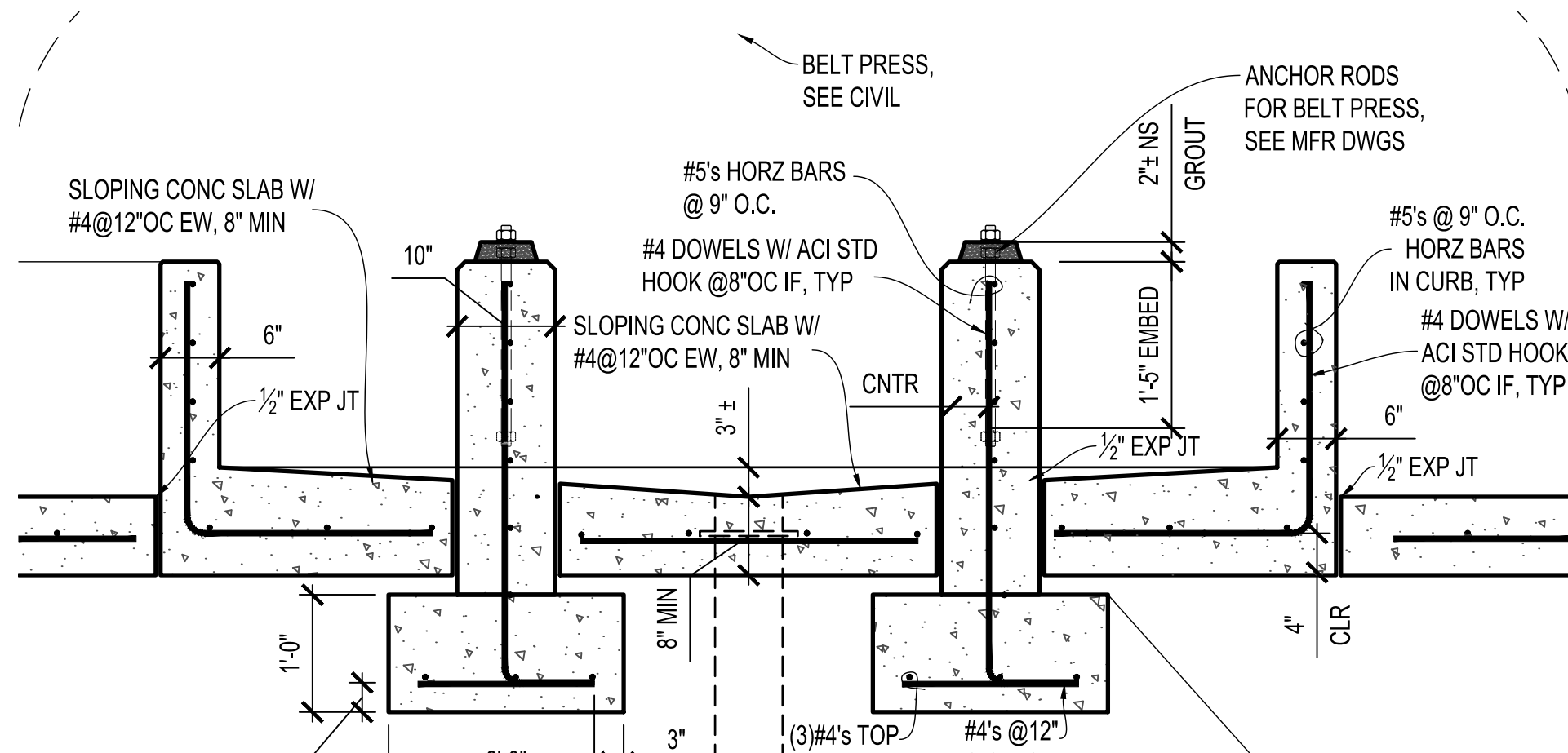
2 CAISSON REINFORCING
1-1/2"=1'-0"



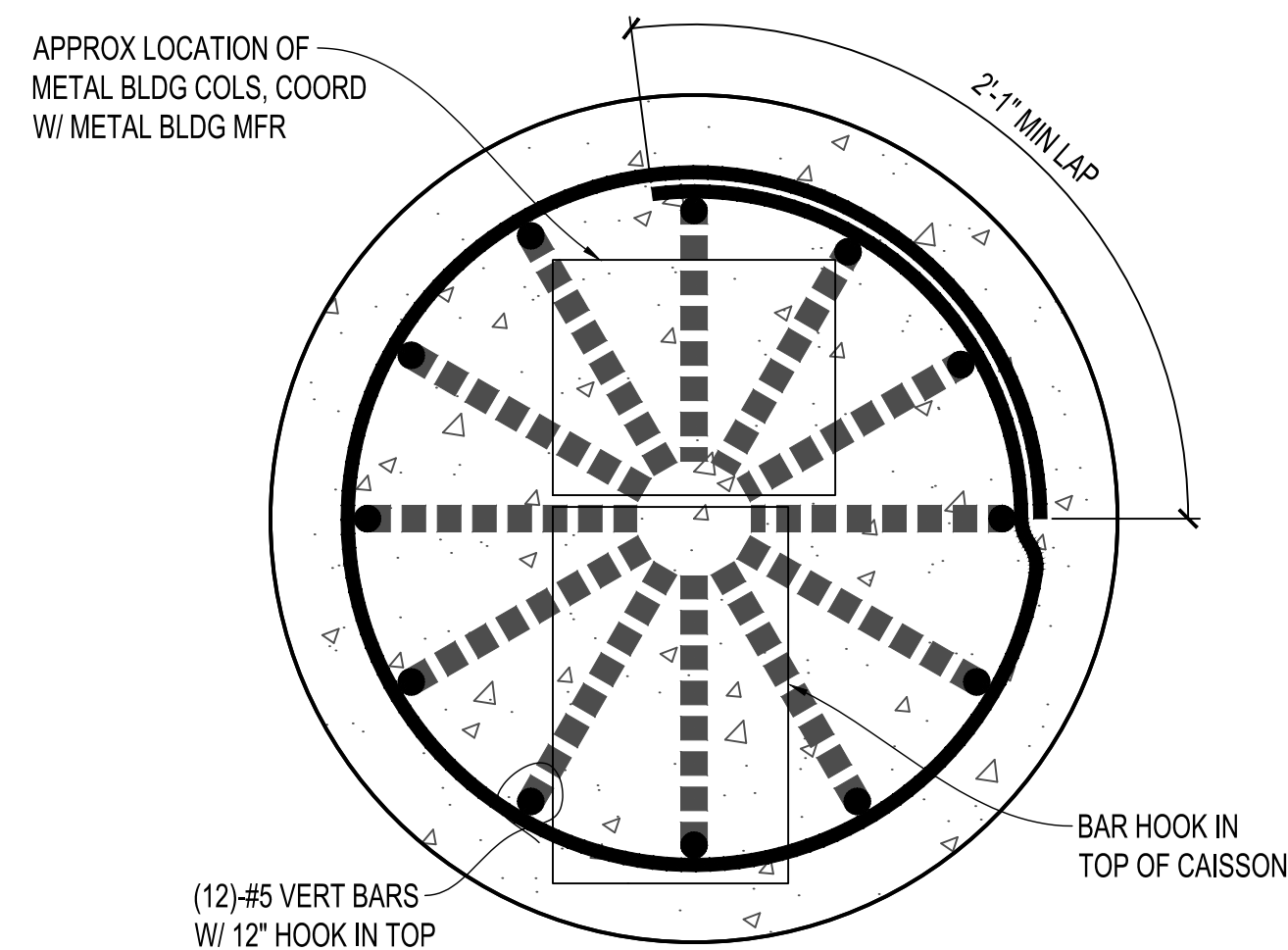
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1/2"=1'-0"



6 CAISSON SECTION
3/4"=1'-0"

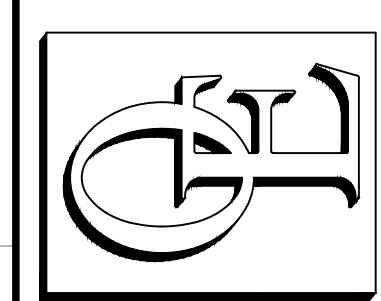


3 BELT PRESS FOUNDATION SECTION
1/2"=1'-0"



5 CAISSON REINFORCING
1-1/2"=1'-0"

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REGISTERED
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ENGINEER
RALPH H. BOSWELL
No. 27855
STATE OF GEORGIA

10/10/2019
FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

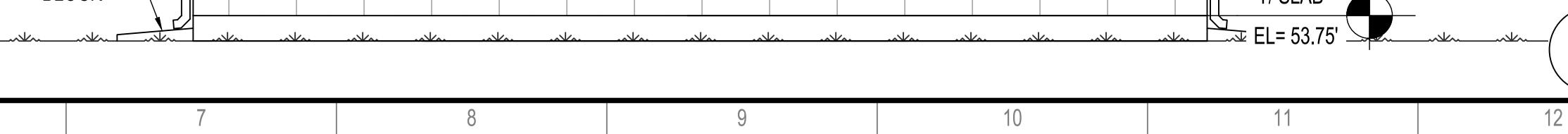
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BELT PRESS &
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DETAILS

7S-3
SHEET 3 OF 03



1. SIDEWALK SLABS SHALL BE 3000 PSI, 4" THICK CONC. REINF W/ 6x6-W1.4KW14.3 WWP @ CENTER OF SLAB. FLOOR SLAB SHALL BE 3000 PSI, 6" THICK CONC. REINFORCED W/ #4'S @ 18" o.c. EA WAY CTR. OF SLAB. SEE PLAN FOR FINISHED FLOOR ELEVATIONS. (REFER TO CIVIL DRAWINGS FOR SIDEWALK, PLANTER, & PAVEMENT LOCATIONS & DETAILS.
2. PROVIDE 4" THICK NO. 57 STONE GRANULAR BASE & VAPOR BARRIER UNDER INTERIOR FLOOR SLAB.
3. CONDUITS & PIPES EMBEDDED IN SLABS:
 - 3.1. SHALL NOT BE LARGER IN OUTSIDE DIM THAN $\frac{1}{2}$ THE OVERALL THICKNESS OF SLAB.
 - 3.2. SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
 - 3.3. MIN SLAB THICKNESS OF $2\frac{1}{2}$ " MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.

CHEMICAL BUILDING

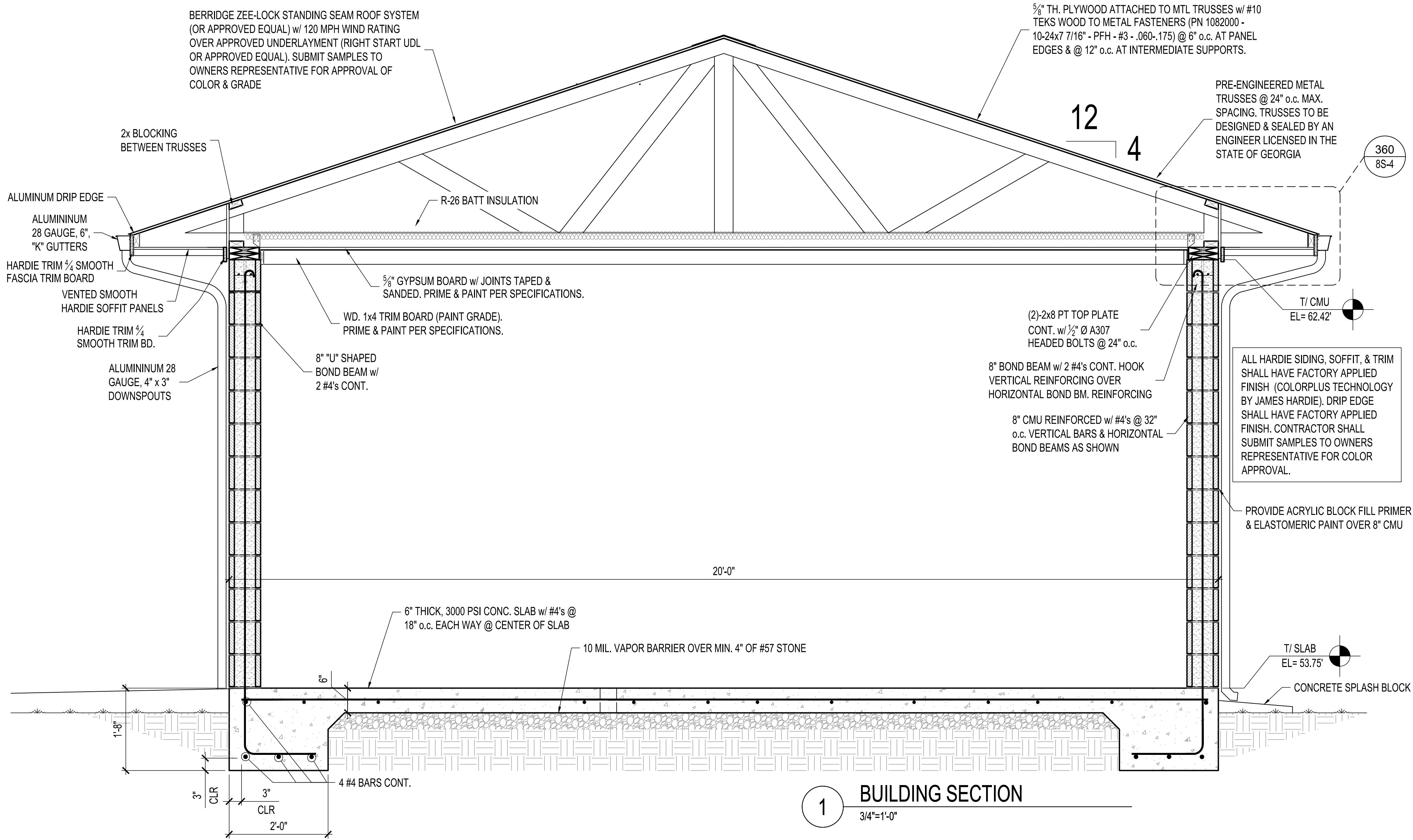
NOTES,
PLANS, & ELEVATIONS

8S-1

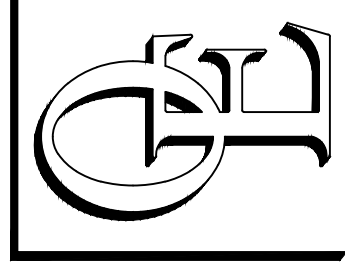
SHEET 1 OF 06

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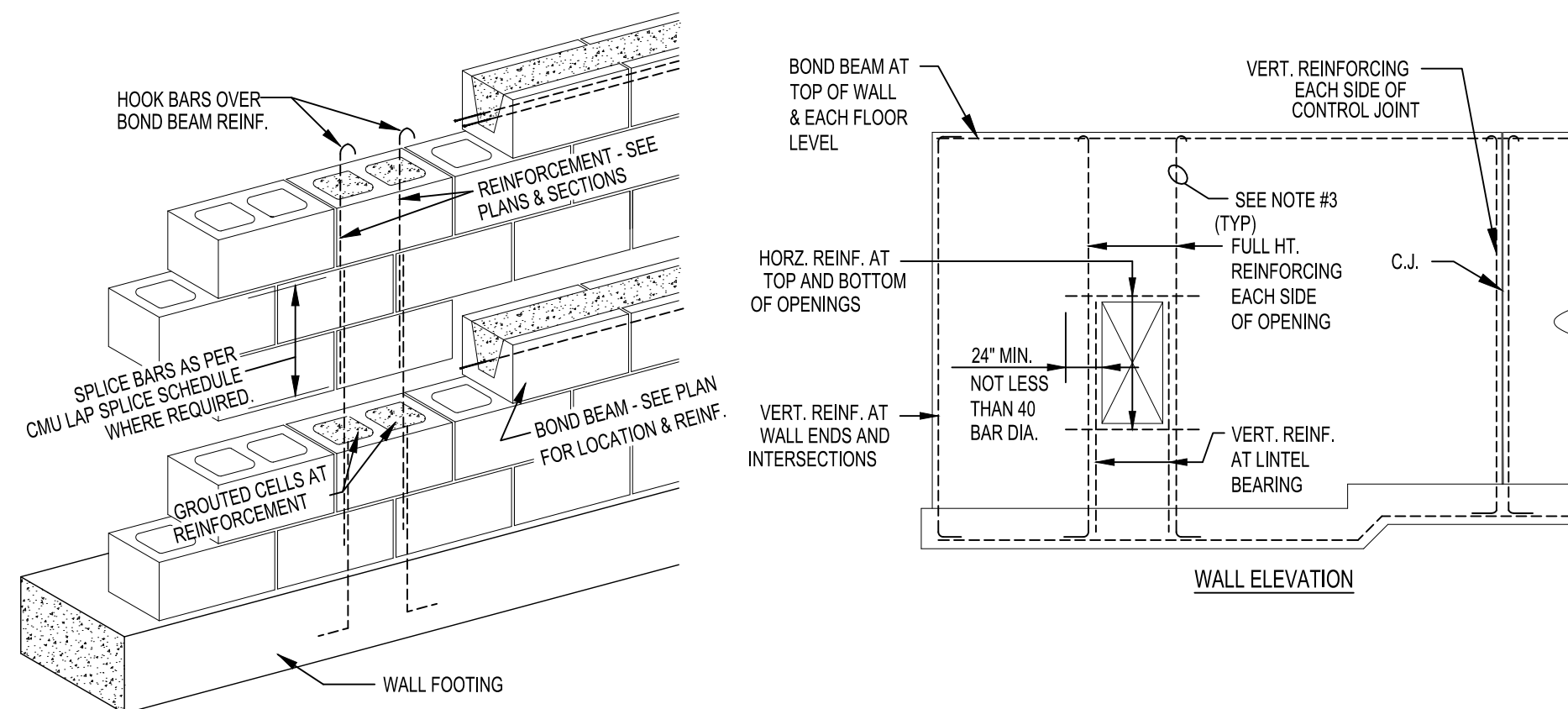
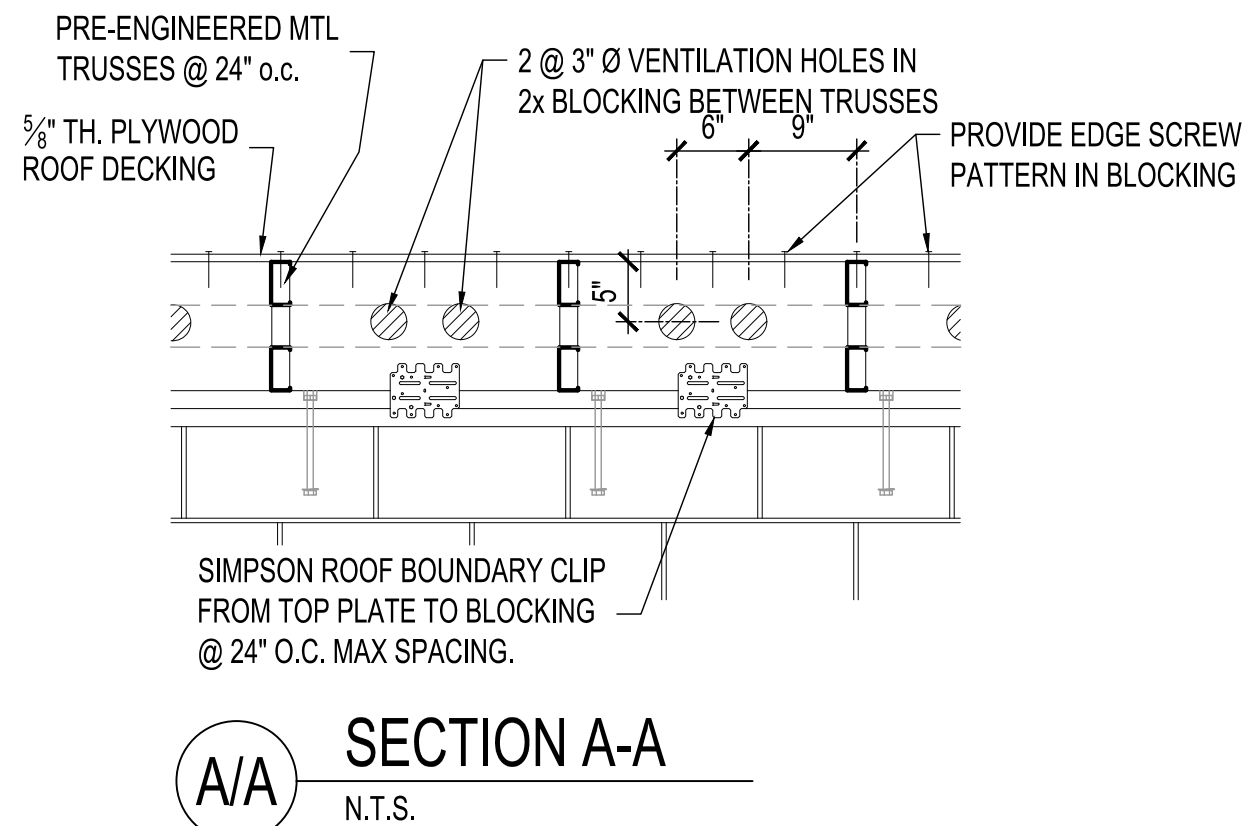
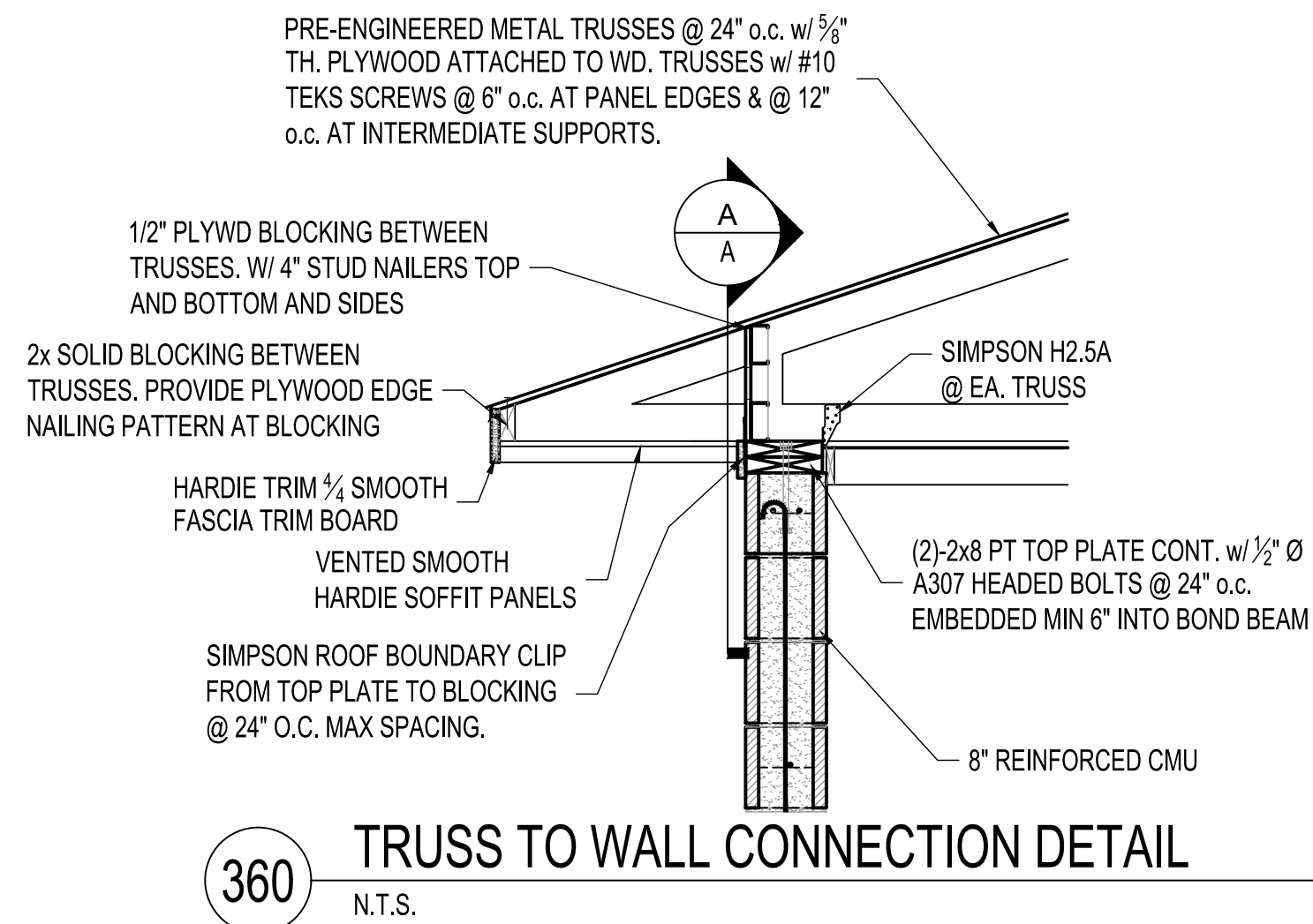
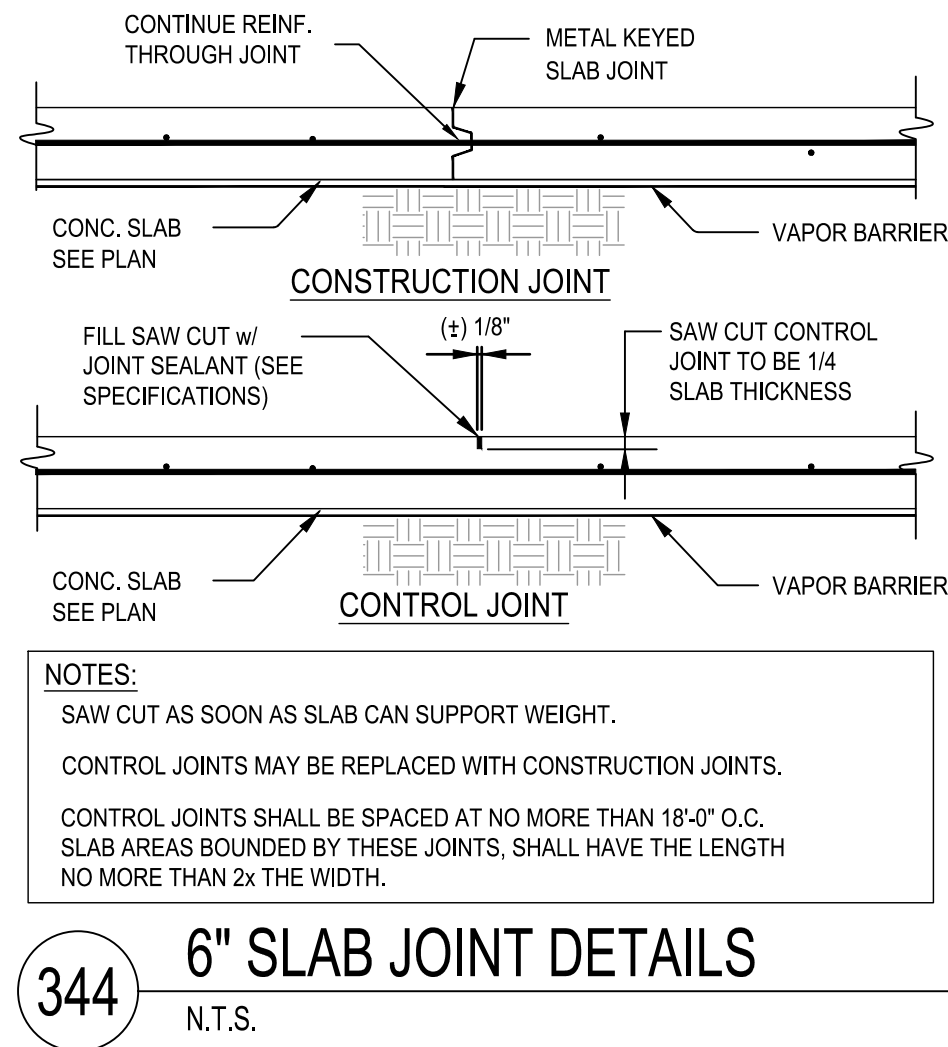
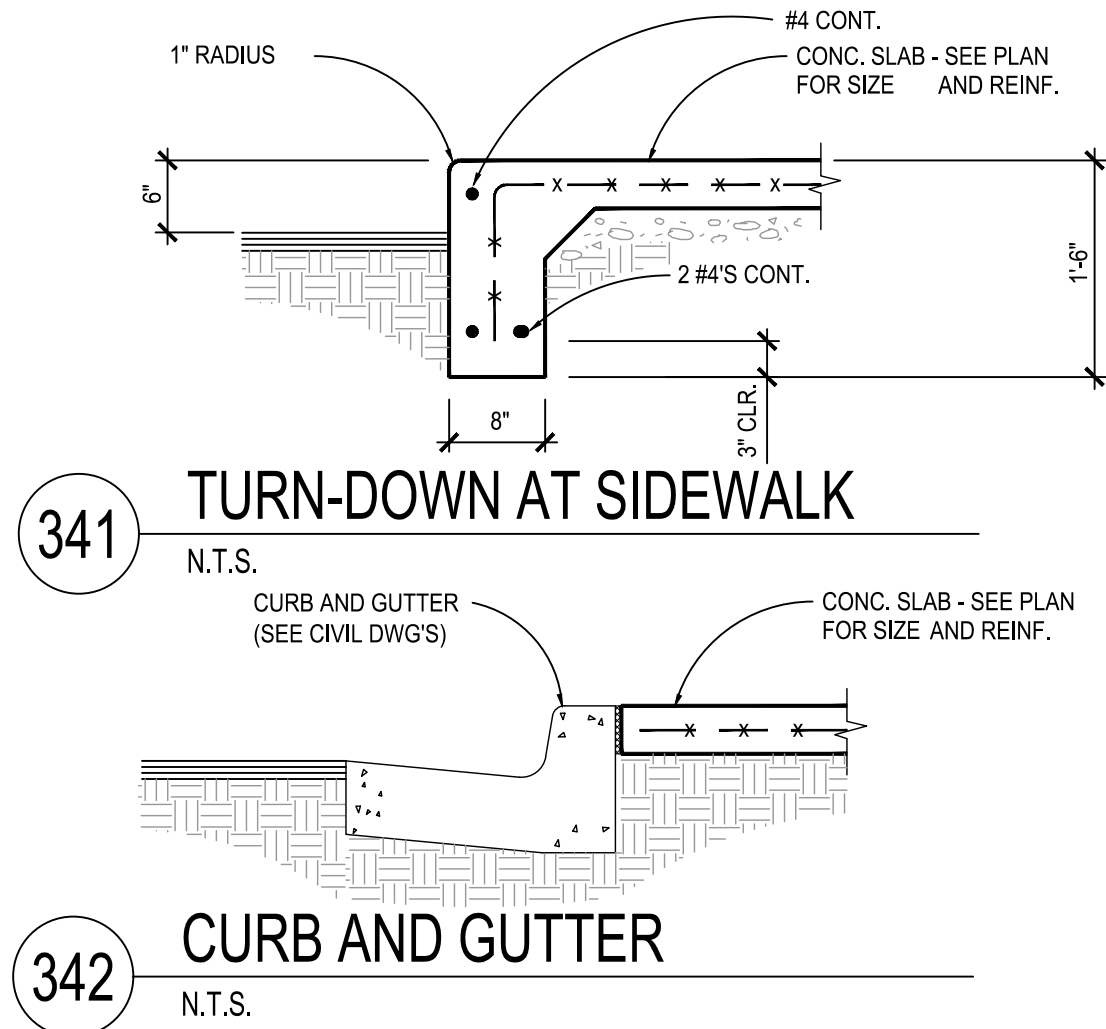
FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

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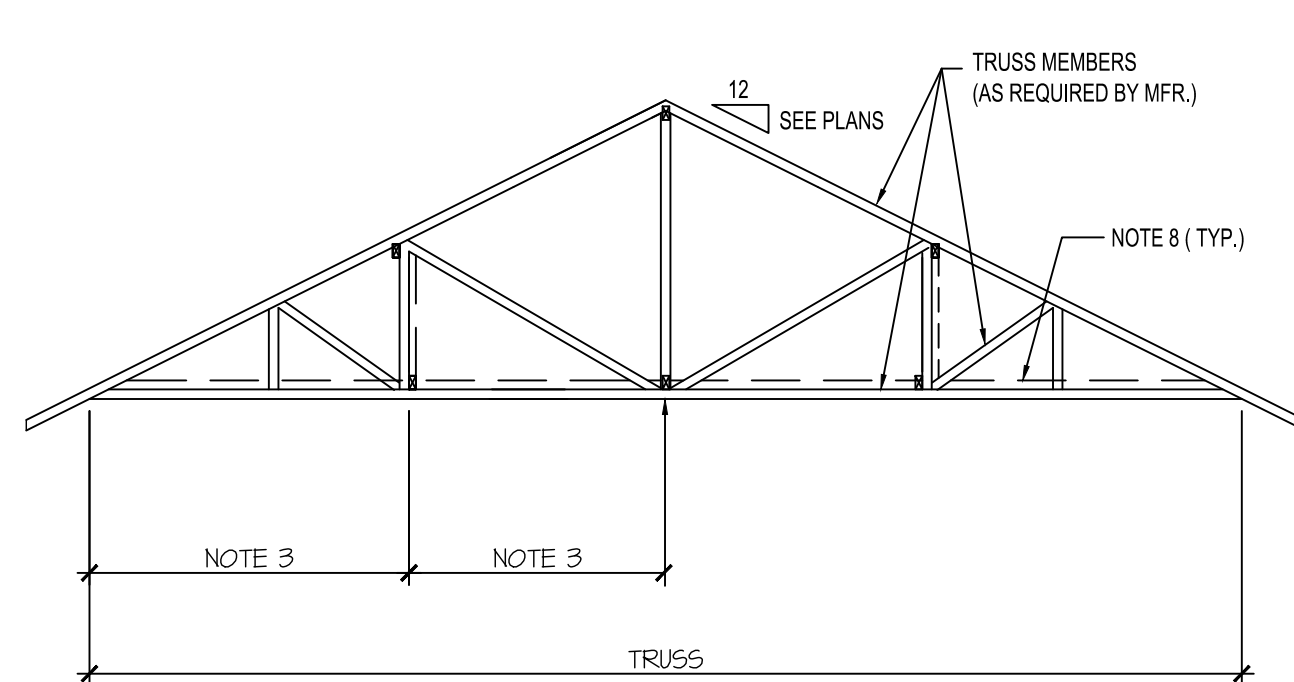
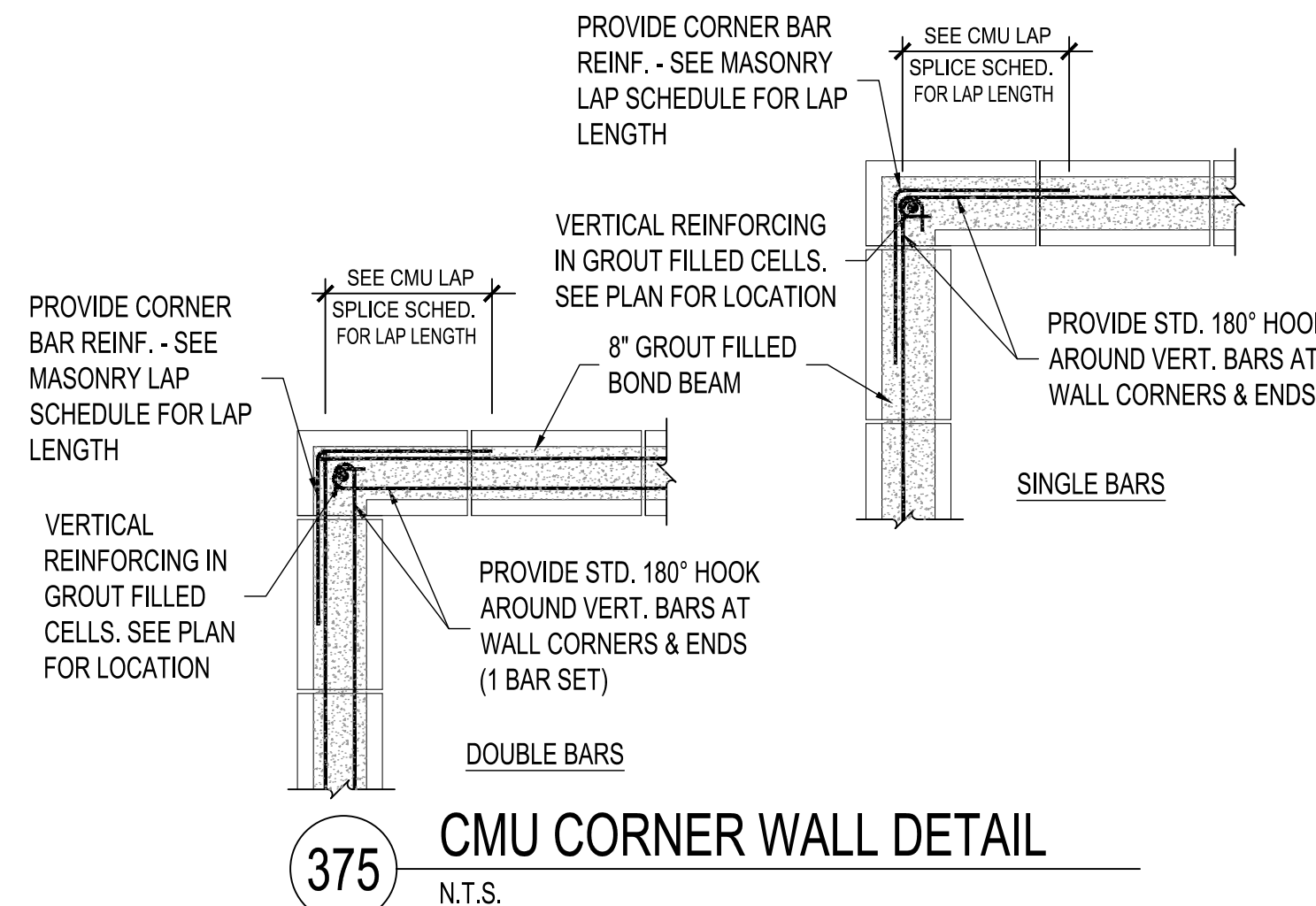
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CHEMICAL BUILDING
SECTIONS
8S-3
SHEET 3 OF 06

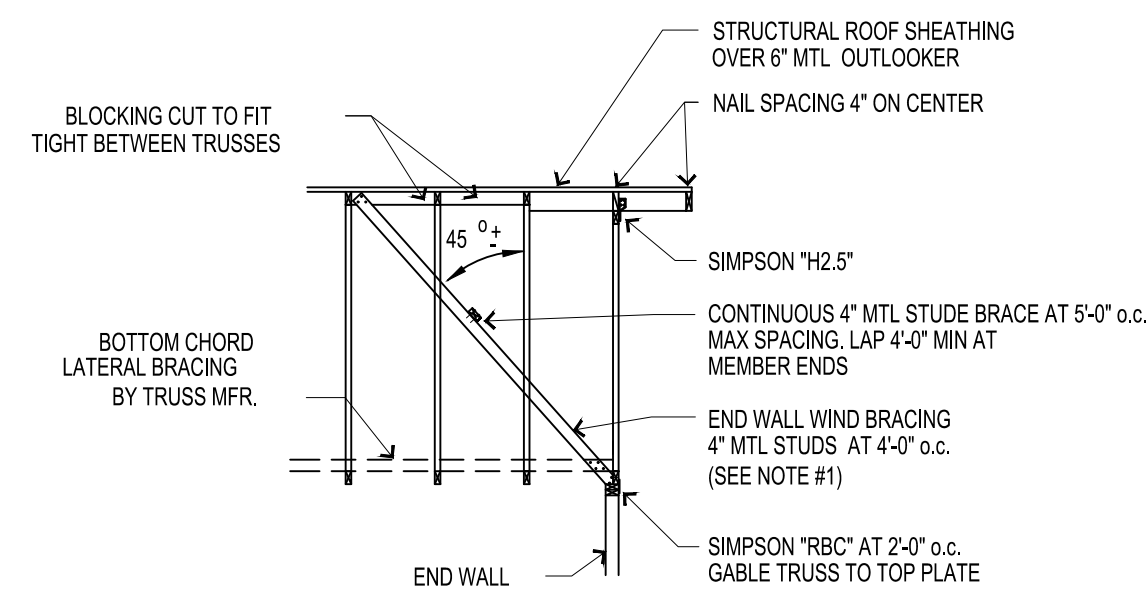
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DESIGNED BY: RALPH BOSWELL
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CHECKED BY: RALPH BOSWELL
DATE: 10/25/2019
10/25/2019 10:15:59 AM



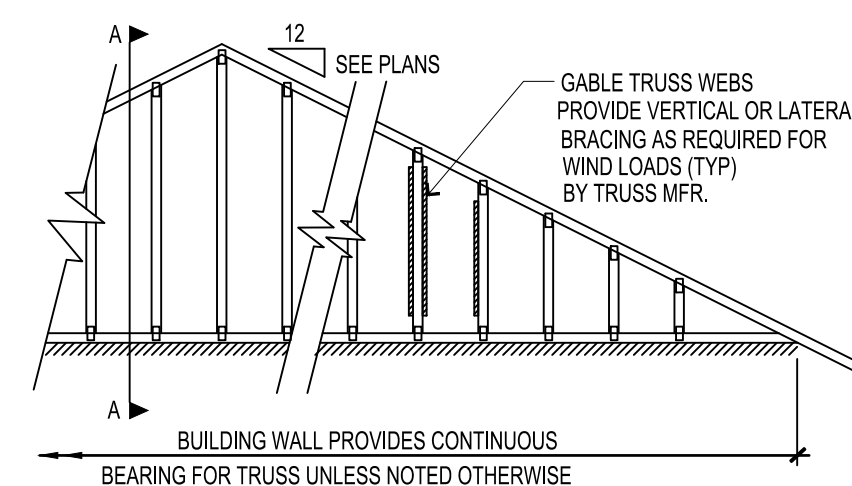
- LOW LIFT GROUTING PROCEDURE:
1. CONSTRUCT WALL TO HEIGHT OF 4'-0". ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
 2. INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.
 3. LIGHTLY WET THE UNITS AND FILL CELLS TO 1 1/2" BELOW TOP COURSE.
 4. DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING TO ALLOW WATER TO BE ABSORBED BY MASONRY.
- ELEVATION NOTES:
1. REINFORCING SHOWN SHALL BE MINIMUM #4 RE-BAR UNLESS SHOWN OTHERWISE ON PLANS AND DETAILS.
 2. BOND BEAM REINFORCING SHOWN SHALL BE DISCONTINUED AT CONTROL JOINTS.
 3. PROVIDE 4" x 4" OPENING IN BOTTOM OF BOND BEAM FOR PASSAGE OF VERTICAL REINFORCING IN CMU BOND BEAM. PROVIDE 1" HOLE IN BOTTOM OF PRECAST LINTEL FOR PASSAGE OF VERT REINF.



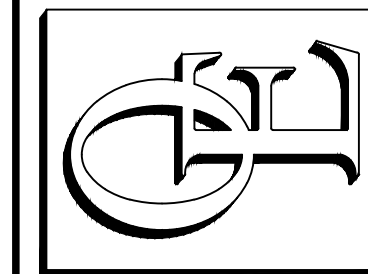
1. TRUSS AS SHOWN DOES NOT REPRESENT ACTUAL TRUSS DESIGN OR LAYOUT. SECTION SHOWN IS INTENDED FOR PERMANENT BRACING REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS FOR TRUSS CONFIGURATION.
2. TEMPORARY BRACING FOR ERECTION PURPOSES IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
3. MAXIMUM HORIZONTAL DISTANCE BETWEEN VERTICAL DIAGONAL BRACING SHALL BE 8'-0". BRACING MEMBERS BRACING SHALL BE 2x4 MIN.
4. 3 ROWS OF BRACING AS SHOWN IS MINIMUM BRACING REQUIRED.
5. LAP LATERAL BRACING OVER AT LEAST TWO TRUSSES.
6. USE 16d NAILS TO ATTACH LATERAL BRACING AT EACH TRUSS.
7. PROVIDE VERTICAL X-BRACING AT EACH END FOR NOT LESS THAN 3 TRUSSES AT FIRST PANEL POINT FROM EACH END AND 5 TRUSSES AT INTERIOR PANEL POINTS.
8. PROVIDE BOTTOM CHORD HORIZONTAL V-BRACING AT EACH END ENGAGING NOT LESS THAN 5 TRUSSES. PROVIDE ADDITIONAL DIAGONAL BRACING AT INTERVALS NOT TO EXCEED 20 FEET.
9. FOR PURPOSES OF BRACING, DOUBLE TRUSSES SHOULD BE TREATED AS A SINGLE TRUSS.



1. END WALL WIND BRACING MAY BE OMITTED IF GYPSUM BOARD DIAPHRAGM IS NAILED TO TRUSS BOTTOM CHORD.



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FOLKSTON TREATMENT PLANT
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FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

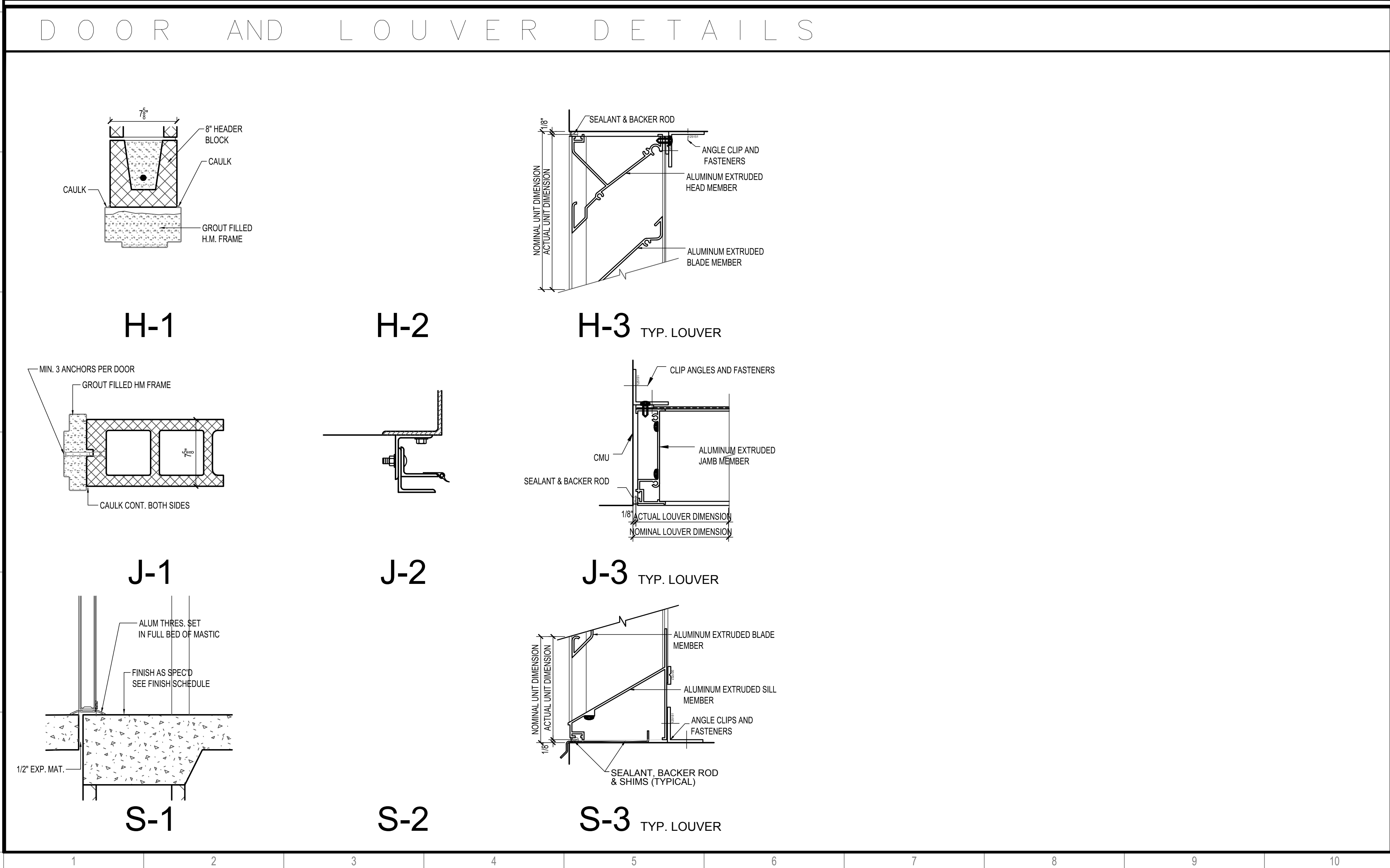
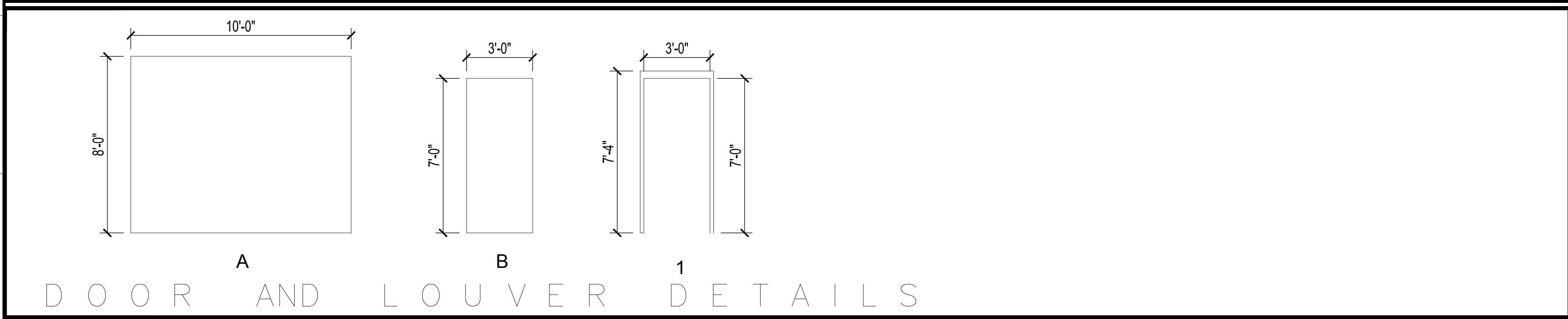
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	10-28-2019	85%	SET FOR REVIEW
	10-28-2019	85%	SET FOR REVIEW
	10-28-2019	85%	SET FOR REVIEW

DESIGNED: 06/18/2022
FILE NAME: 06/18/2022-SS-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 6-14-2019
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CHEMICAL BUILDING
DETAILS

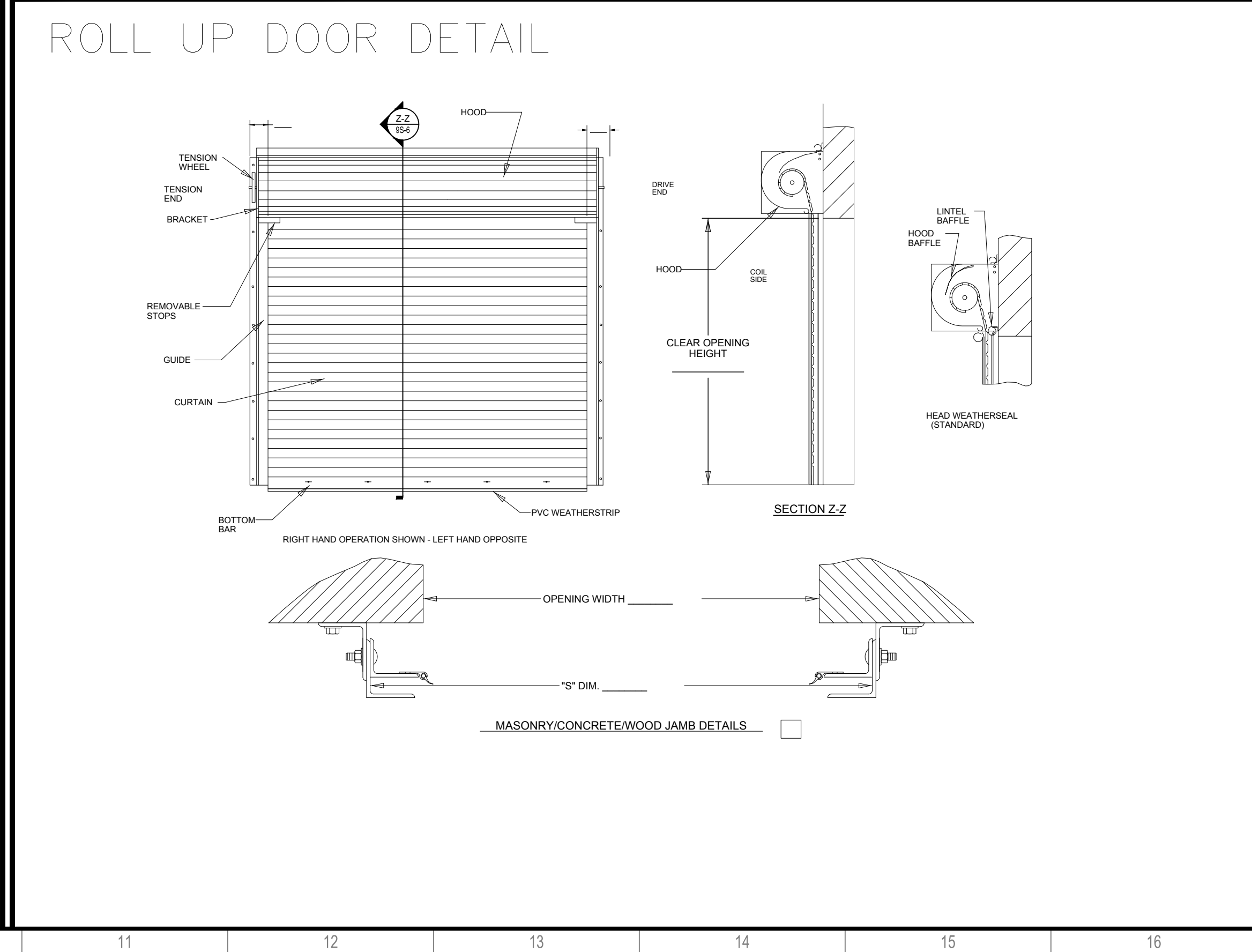
NOTES:
1. ALL DOOR HARDWARE SHALL BE OPERABLE LEVER TYPE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.

1	2	3	4	5	6	7	8	9	10									
DOOR SCHEDULE																		
DOOR NUMBER	DOOR LOCATION	DOORS						FRAME							LABEL	HDW. SET (NOTE 1)	REMARKS	DOOR NUMBER
		TYPE	SIZE		THICK	MAT'L	FINISH	SIZE	TYPE	MATERIAL	FINISH	HEAD	JAMB	THR.				
		WIDTH	HEIGHT															
801	CHEMICAL METER'G	B	PR3'-0"	7'-0"	1-3/4"	FIBERGLASS	PAINT	7-1/4"	1	H.M.	PAINT	1/A-5	2/A-5	---		4		601
																	602	
																	603	
<div>NOTES:</div> <div>1. ALL DOOR HARDWARE SHALL BE OPERABLE LEVER TYPE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.</div>																		



11		12		13		14		15		16		
ROOM FINISH SCHEDULE												
KEY		FLOOR		BASE		WALLS		CEILING		NOTES		
⊗ -		SEALED CONCRETE		NONE		PAINTED CMU P1		PAINTED GYPSUM BD		HEIGHT		
NO.	NAME											
	BLOWER ROOM	⊗		⊗		⊗		⊗		8'-8"	-	
ROOM FINISH NOTES												

ROOM FINISH NOTES																
LIST OF FINISHES																
INTERIOR PAINT																
ITEM	MANUFACTURER	SPECIFICATION	COLOR NUMBER	COLOR	REMARKS											
P-1	SHERWIN WILLIAMS	FLAT	-	BY OWNER	WALL											
P-2	SHERWIN WILLIAMS	FLAT	-	BY OWNER	CEILING											



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GEORGETIA
REGISTERED PROFESSIONAL ENGINEER
No. 27855
RALPH H. BOSWELL

10/10/2019

FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

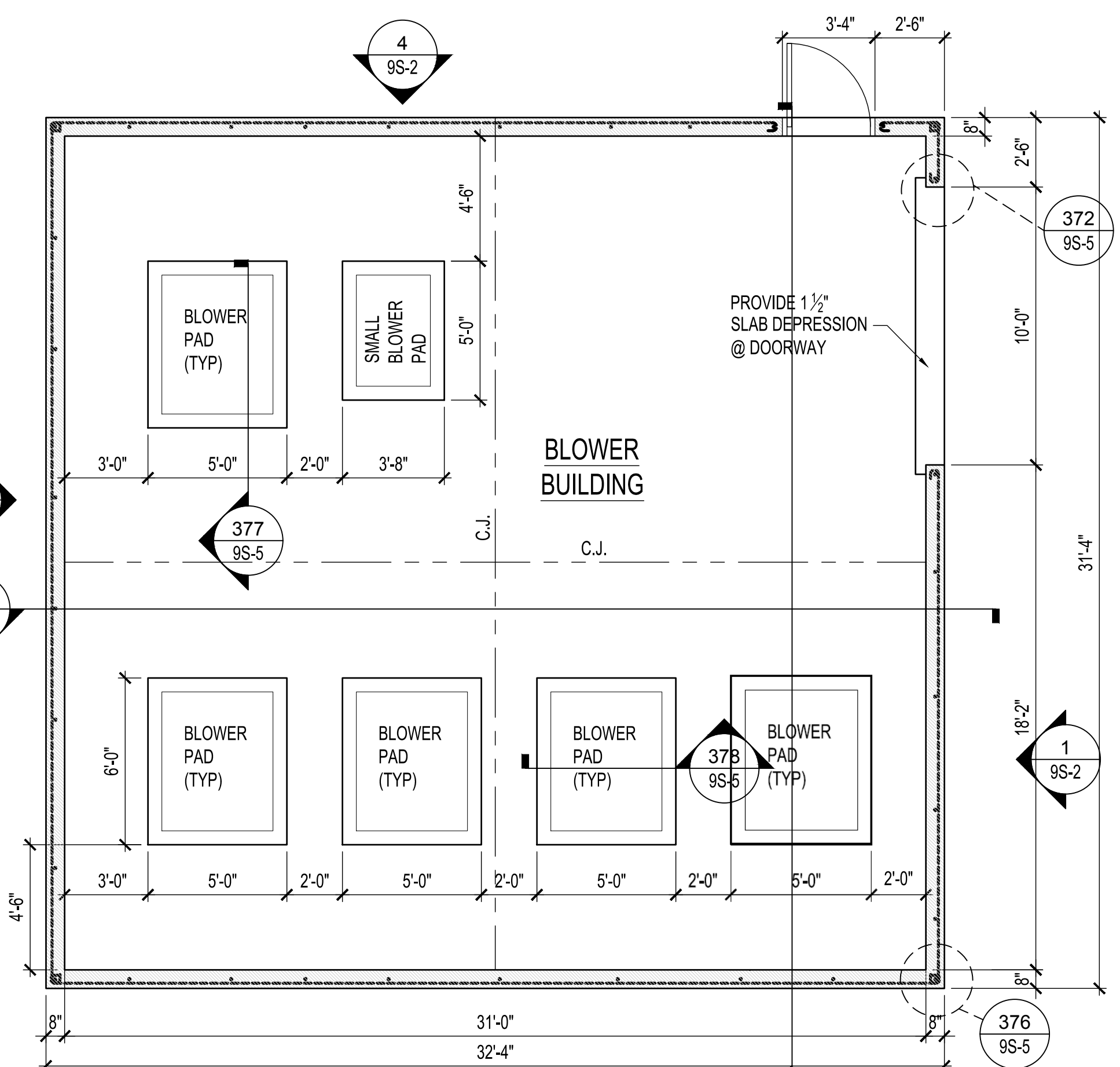
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	10-28-2019	85%	SET FOR REVIEW

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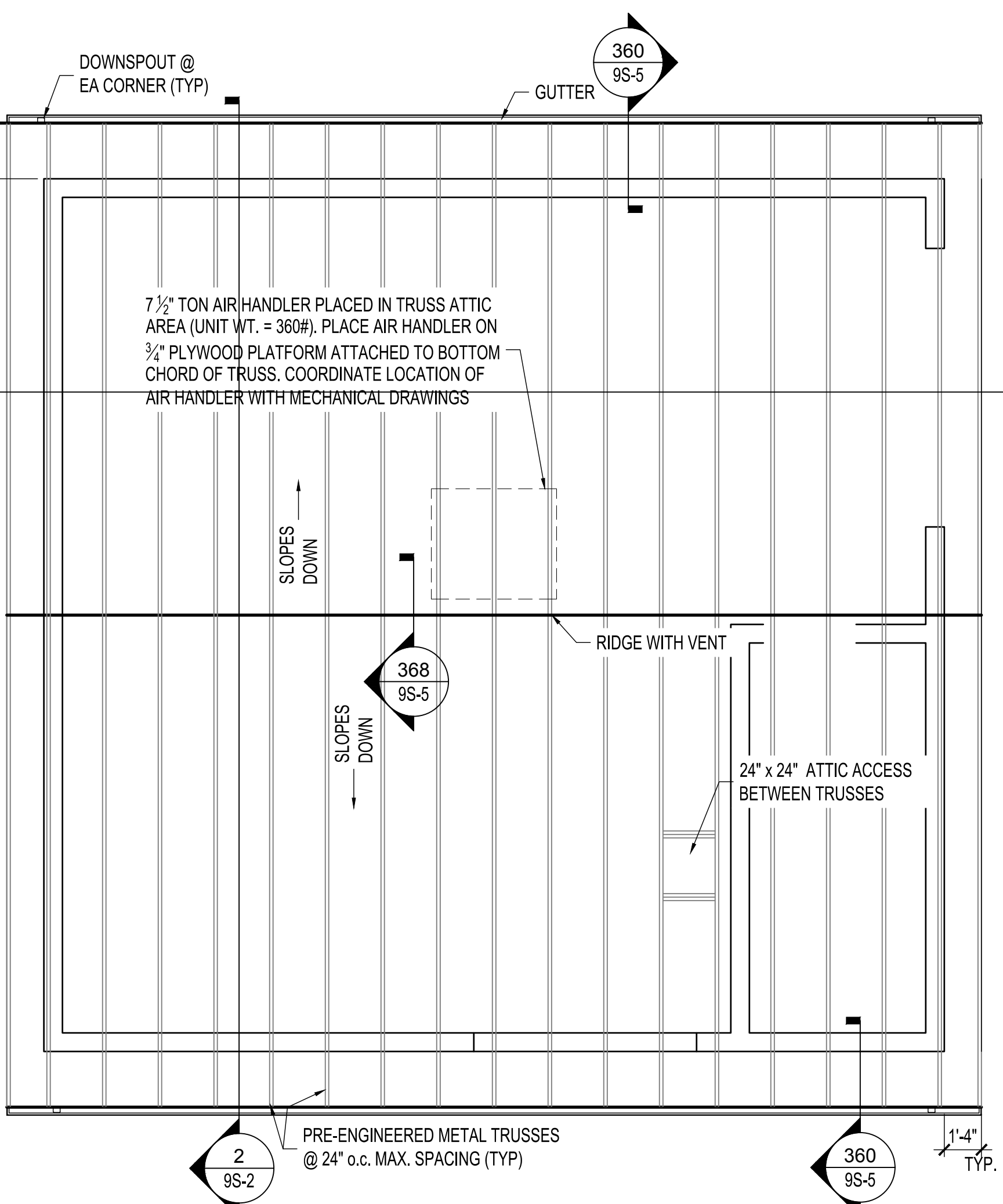
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CHEMICAL BUILDING
DETAILS & SCHEDULES

8S-5
SHEET 5 OF 06



1/4"=1'-0"



1/4"=1'-0'

1. REINF CMU WALLS W/ #4 @ 48" OC UNO.
2. ADDITIONAL #4 VERT REINF AT:
 - 2.1. EACH SIDE OF OPENINGS
 - 2.2. WALL INTERSECTIONS
 - 2.3. ENDS OF WALLS
 - 2.4. AS NOTED & DETAILED ON DRAWINGS
3. PROVIDE BOND BEAMS REINF W/ (2) #4 CONT AT:
 - 3.1. T&B OF OPENINGS
 - 3.2. TRUSS BEARING (CONT)
 - 3.3. TOP COURSE OF MASONRY WALLS
 - 3.4. AS NOTED & DETAILED ON DRAWINGS
4. PROVIDE MATCHING DOWELS FOR VERT REINF INTO FOUNDATION AND BOND BEAM @ TOP.
5. FILL ALL CMU CELLS BELOW FINISHED FLOOR & BELOW GRADE. FILL MATERIAL SHALL BE 3000 PSI GROUT, MIN.

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2. ADDITIONAL #4 VERT REINF AT:
 - 2.1. EACH SIDE OF OPENINGS
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5. FILL ALL CMU CELLS BELOW FINISHED FLOOR & BELOW GRADE. FILL MATERIAL SHALL BE 3000 PSI GROUT, MIN.

1. SEE PRE-ENGINEERED METAL TRUSS NOTES FOR ROOF TRUSSES.
2. ROOF SHEATHING SHALL BE $\frac{5}{8}$ " APA RATED SHEATHING W/ #10 TEKS WOOD TO METAL FASTNERS AT 6" o.c. @ PANEL EDGES & @12" o.c. @ INTERMEDIATE SUPPORTS.

1. SEE PRE-ENGINEERED METAL TRUSS NOTES FOR ROOF TRUSSES.
2. ROOF SHEATHING SHALL BE $\frac{5}{8}$ " APA RATED SHEATHING W/ #10 TEKS WOOD TO METAL FASTNERS AT 6" o.c. @ PANEL EDGES & @12" o.c. @ INTERMEDIATE SUPPORTS.

3000 PSI (ACI 318-05)

BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	22"
#4	29"
#5	36"
#6	43"
#7	63"
#8	72"
#9	81"

$F_v=60$ KSI, $f_m=1500$ PS

BAR SIZE	SPLICE LENGTH
#3	19"
#4	25"
#5	31"
#6	57"
#7	70"
#8	98"

OPENING WIDTH			
MINIMUM	MAXIMUM	8" CMU	16" CMU
	3'-4"	2 - #4	2 - #4
3'-4"	5'-4"	2 - #5	2 - #5
5'-4"	7'-4"	2 - #6	2 - #5
7'-4"	10'-0"	—	2 - #6

OPENING WIDTH			
MINIMUM	MAXIMUM	8" CMU	16" CMU
	3'-4"	2 - #4	2 - #4
3'-4"	5'-4"	2 - #5	2 - #5
5'-4"	7'-4"	2 - #6	2 - #5
7'-4"	10'-0"	————	2 - #6

1. EXTEND BOND BEAM REINFORCING 24" OR 40 BAR DIAMETERS (WHICHEVER IS GREATER) BEYOND THE EXTENTS OF THE OPENING. VERTICAL REINFORCING AT THE SIDES OF THE OPENING SHALL BE CONTINUOUS THROUGH THE BOND BEAM. PROVIDE KNOCK OUTS IN THE BOTTOM OF THE BOND BEAM BLOCK AS REQUIRED TO ALLOW REINFORCING TO PASS THROUGH.
2. SEE DETAILS 373 & 374 FOR ADDITIONAL REINFORCING AT OPENINGS.

1. DESIGN SOIL BEARING PRESSURE = 2000 PSF.
SOIL BRN'G PRESSURE SHALL BE VERIFIED AT
TIME OF EXCAVATION AND ENGINEER SHALL BE
NOTIFIED IF ACTUAL SOIL BEARING PRESSURE IS
LOWER THAN DESIGN VALUE. FOUNDATION
DESIGN & SUBSURFACE INFORMATION IS BASED
ON A SOILS REPORT PREPARED BY TERRACON
CONSULTING, INC. (PROJECT# ES165069).
2. FLOOR LIVE LOAD = 100 PSF
3. PRE-ENGINEERED TRUSS DESIGN LOADS:
TOP CHORD:
DEAD LOAD = 10 PSF + TRUSS WEIGHT
LIVE LOAD = 20 PSF
BOT CHORD:
DEAD LOAD = 5 PSF + TRUSS WEIGHT
LIVE LOAD = 10 PSF (60 PSF @ ACCESS
LOCATIONS)
MECH LOAD = 200# CONCENTRATED LOAD @
ANY LOCATION ALONG BOT CHORD

1. DESIGN SOIL BEARING PRESSURE = 2000 PSF.
SOIL BRN'G PRESSURE SHALL BE VERIFIED AT
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LIVE LOAD = 10 PSF (60 PSF @ ACCESS
LOCATIONS)
MECH LOAD = 200# CONCENTRATED LOAD @
ANY LOCATION ALONG BOT CHORD

1. STEP FOOTINGS DOWN BELOW MECHANICAL, ELECTRICAL, OR PLUMBING LINES AS REQUIRED TO AVOID INTERFERENCE. SEE TYP FOOTING STEP DETAIL. COORDINATE W/ OTHER TRADES. PROVIDE PIPE SLEEVE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL.
2. WHERE UTILITY LINES PASS UNDER A FOOTING, PROVIDE RELIEVING ARCH FOR PROTECTION.

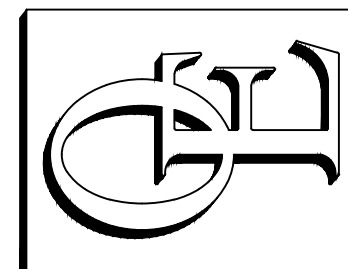
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2. WHERE UTILITY LINES PASS UNDER A FOOTING, PROVIDE RELIEVING ARCH FOR PROTECTION.

2. SIDEWALK SLABS SHALL BE 3000 PSI, 8" THICK CONC. REINFW W/ #6x11x4W11A W/WF @ CENTER OF SLAB. FLOOR SLAB SHALL BE 3000 PSI, 8" THICK CONC. REINFORCED W/ #4'S @ 12" c/c. EA WAY CTR. OF SLAB SEE PLAN FOR FINISHED FLOOR ELEVATIONS. (REFER TO CIVIL DRAWINGS FOR SIDEWALK LOCATIONS & DETAILS.
3. PROVIDE 4" THICK NO. 57 STONE GRANULAR BASE OVER VAPOR BARRIER UNDER INTERIOR FLOOR SLAB.
4. CONDUITS & PIPES EMBEDDED IN SLABS:
 - 3.1. SHALL NOT BE LARGER IN OUTSIDE DIM THAN 1/2 THE OVERALL THICKNESS OF SLAB.
 - 3.2. SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
 - 3.3. MIN SLAB THICKNESS OF 2 1/2" MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.

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 - 3.3. MIN SLAB THICKNESS OF 2 1/2" MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.

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FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON GEORGIA
CHARLTON COUNTY, GEORGIA

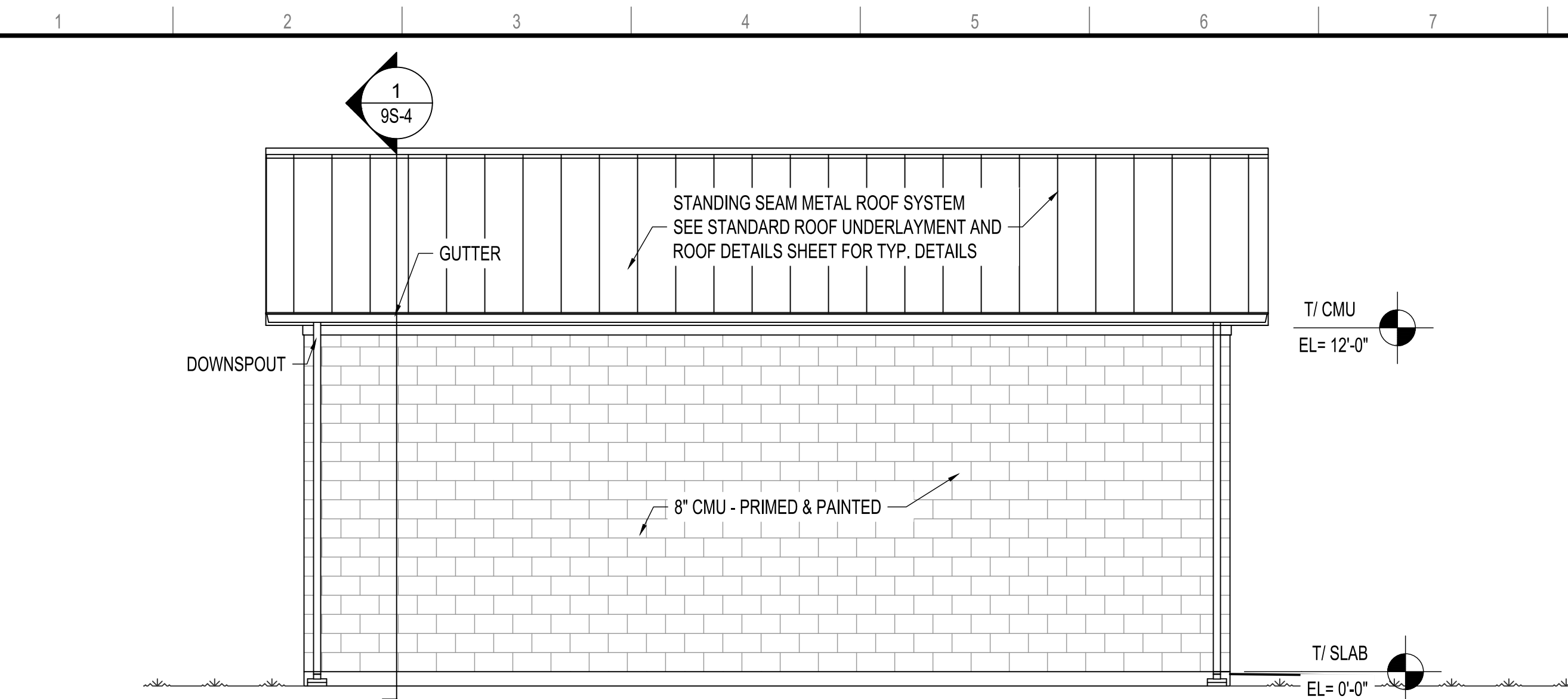
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	07-06-2019		85% SET FOR REVIEW
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APPROVED:
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 6-14-2019

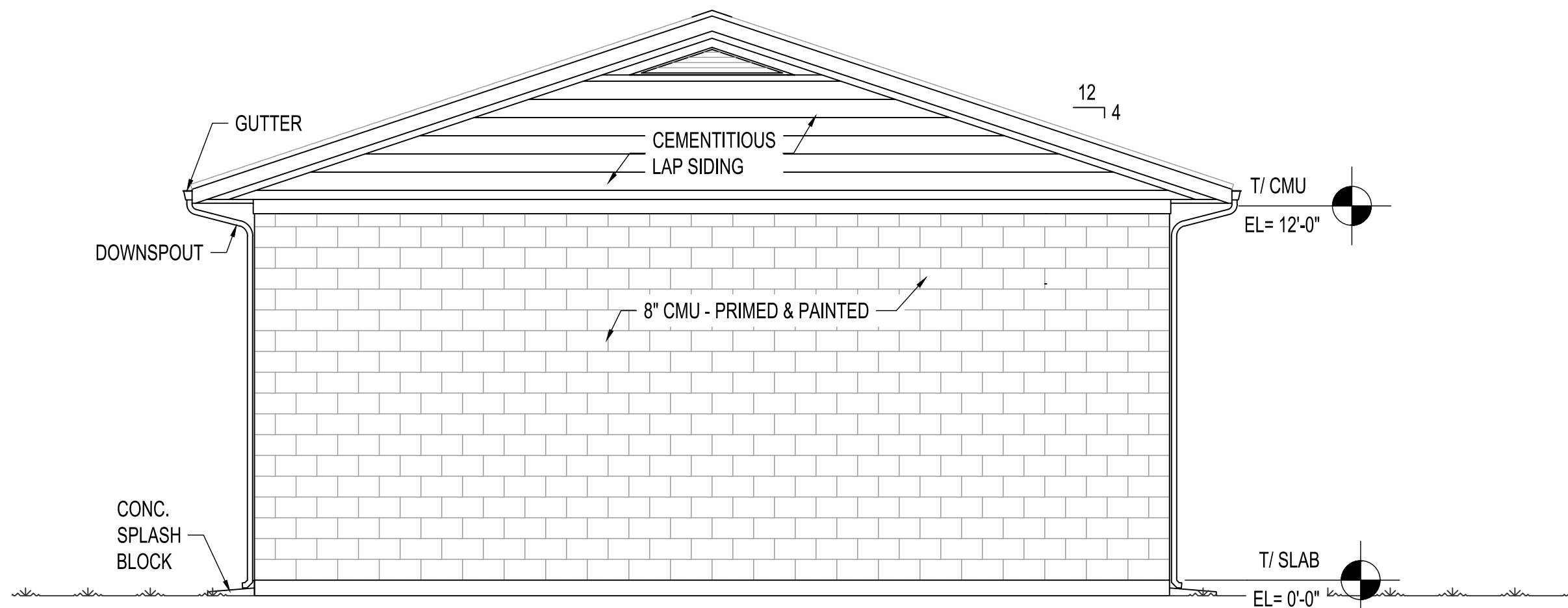
NOTES AND PLANS

SHEET 1 OF 07

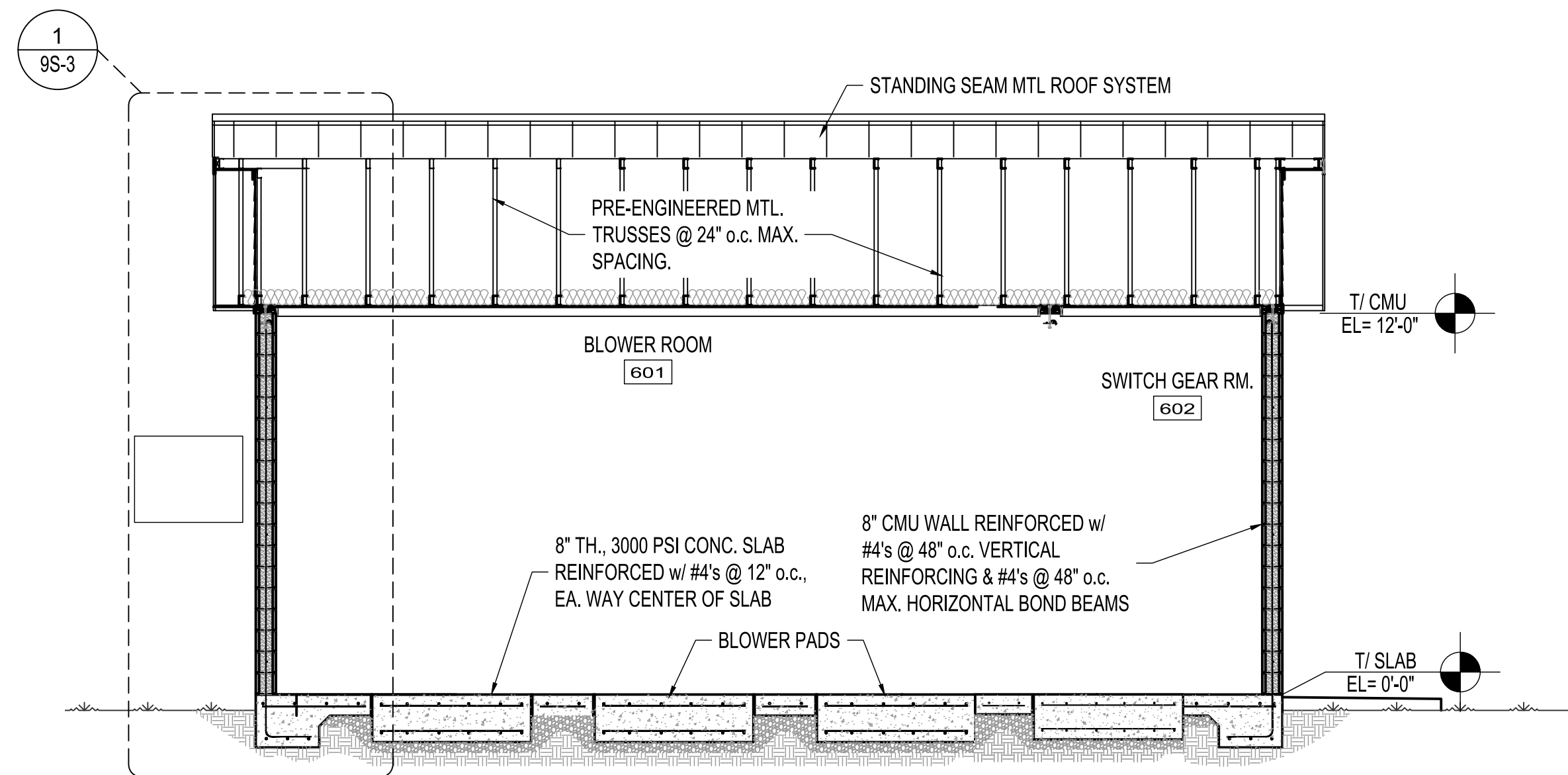
NOTES:
1. ALL DIMENSIONS ARE IN FEET AND INCHES.
2. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE AS SHOWN OR AS NOTED.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND STANDARDS.
4. ALL WORK SHALL BE COMPLETED BY THE DATE NOTED.
5. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF FOLKSTON.
6. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF FOLKSTON.
7. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF FOLKSTON.
8. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF FOLKSTON.
9. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF FOLKSTON.
10. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF FOLKSTON.
11. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF FOLKSTON.
12. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF FOLKSTON.
13. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF FOLKSTON.
14. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF FOLKSTON.
15. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF FOLKSTON.
16. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF FOLKSTON.
17. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF FOLKSTON.



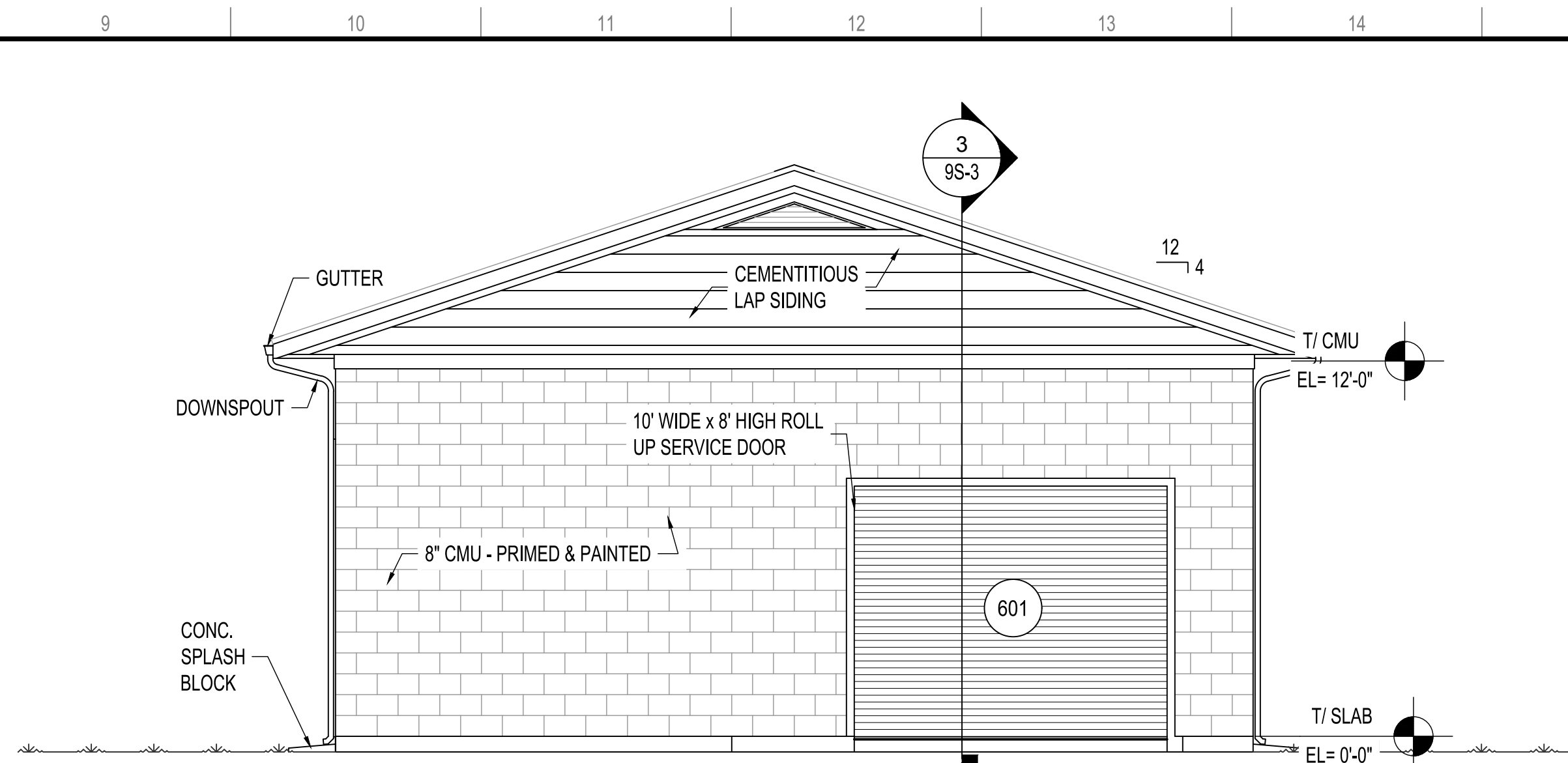
2 RIGHT SIDE ELEVATION
1/4"=1'-0"



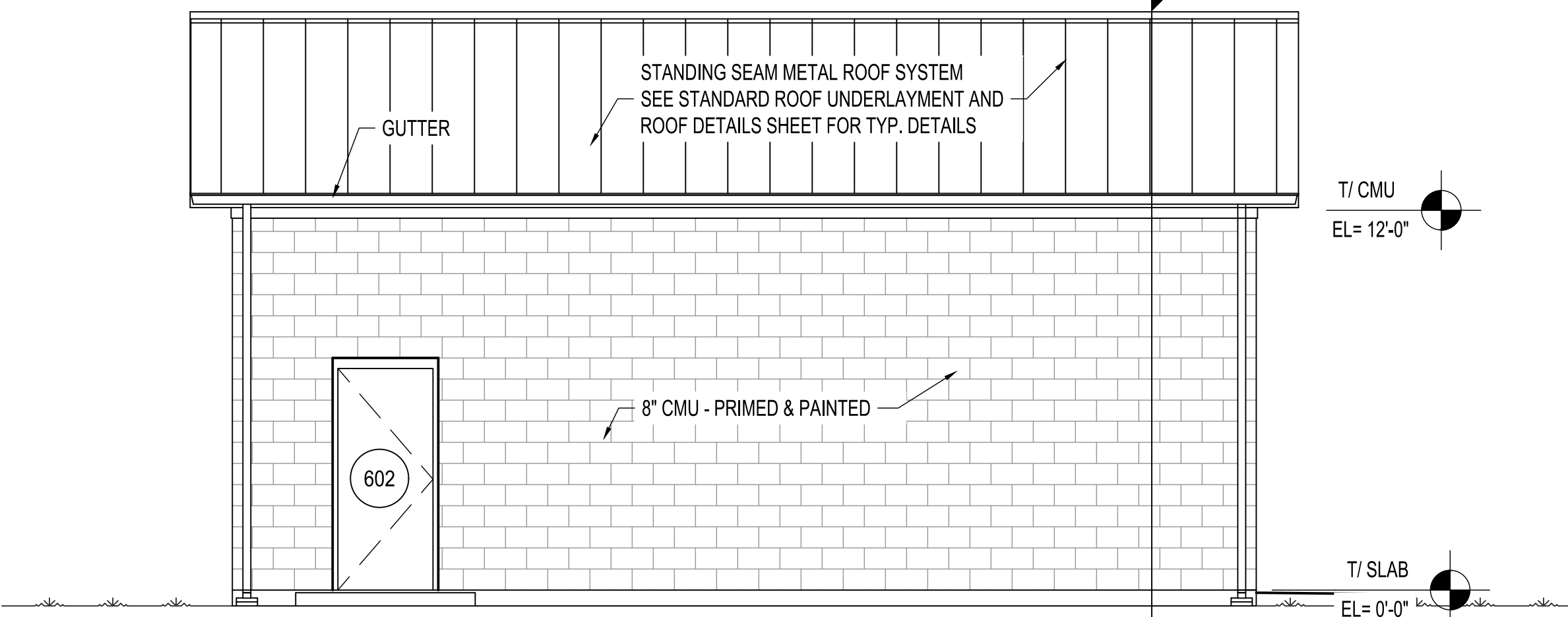
3 REAR ELEVATION
1/4"=1'-0"



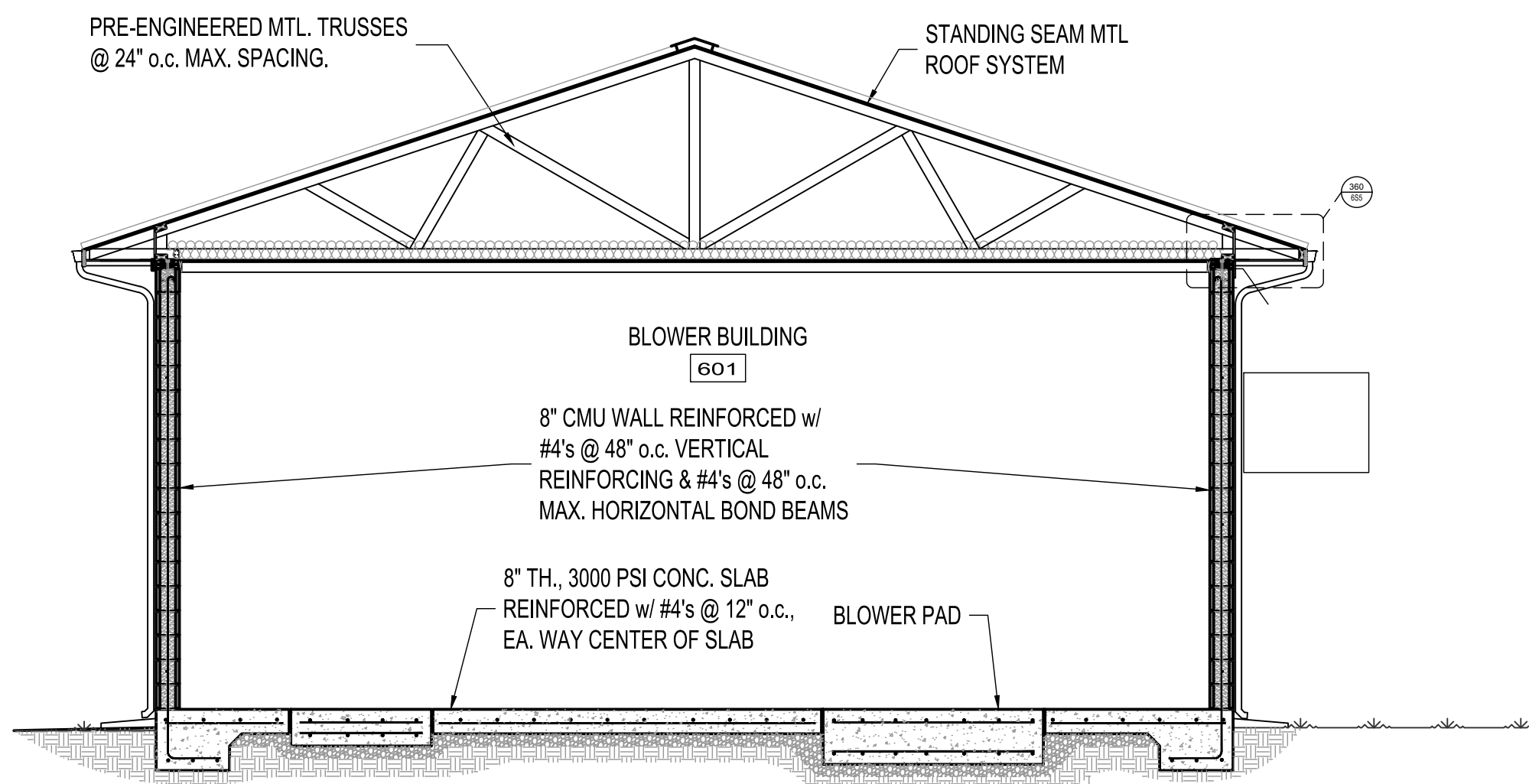
5 LONGITUDINAL BUILDING SECTION
1/4"=1'-0"



1 FRONT ELEVATION
1/4"=1'-0"

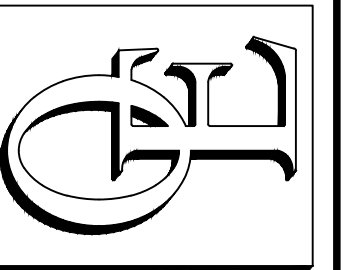


4 LEFT SIDE ELEVATION
1/4"=1'-0"



6 TRANSVERSE BUILDING SECTION
1/4"=1'-0"

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FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
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2	07-26-2019	85%	SET FOR REVIEW
3	06-14-2019	85%	SET FOR REVIEW

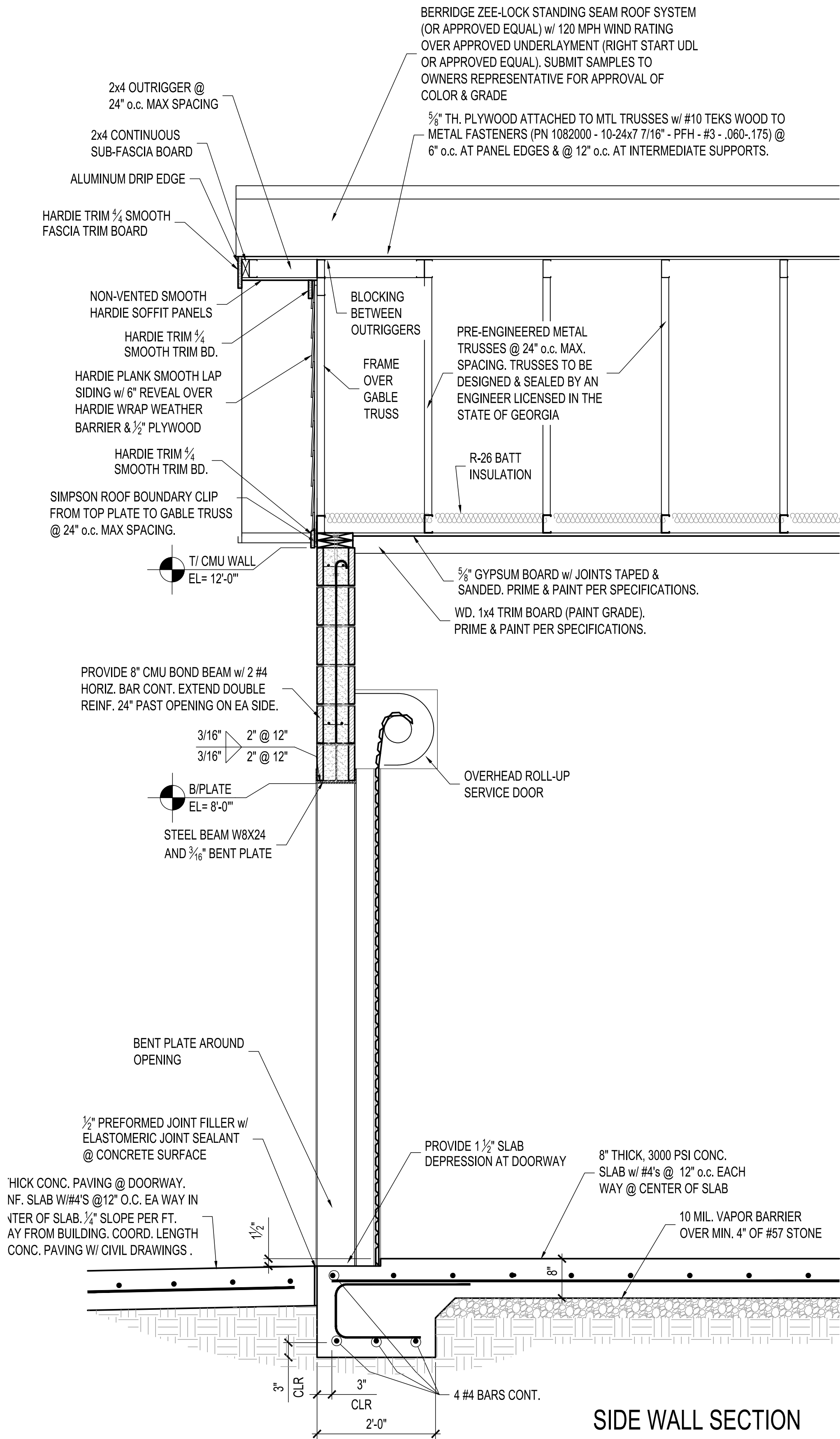
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ORIGINAL DRAWING SIZE: 36"x24"
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BLOWER BUILDING

SECTIONS & ELEVATIONS

9S-2
SHEET 2 OF 07

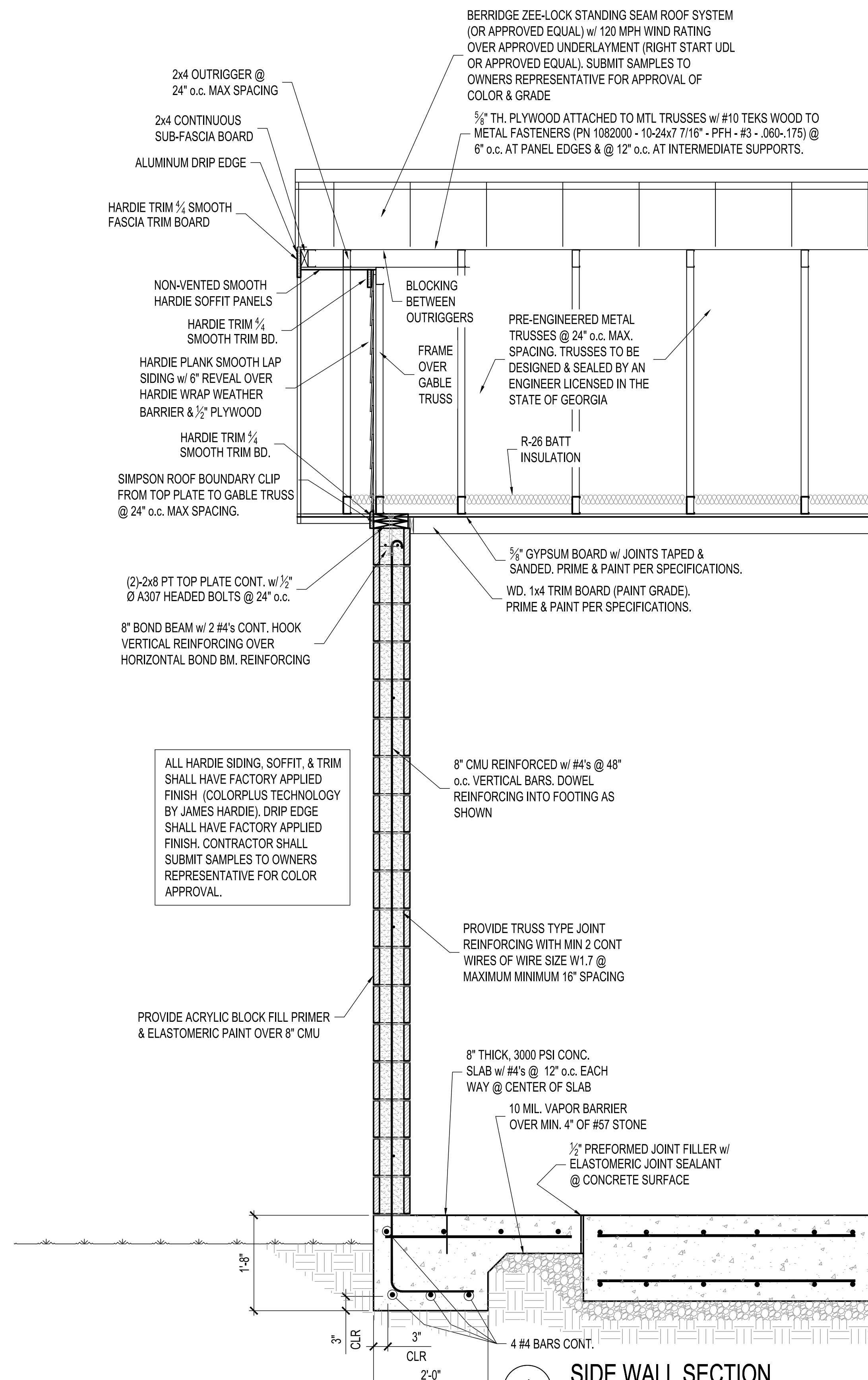
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1. REVISIONS:
2. PRINTED BY: RAUPH BOSWELL, DATE: October 11, 2019 1:56:02 AM
3. DRAWING FILE: C:\Users\rauph\Documents\1818132\Blower Building\1818132-Blower.dwg
4. LAST MODIFIED: Friday, October 4, 2019 10:08 AM



**SIDE WALL SECTION
@ ROLL-UP DOOR**

3

3/4"=1'-0"

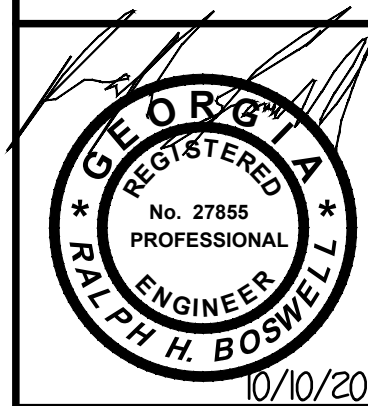
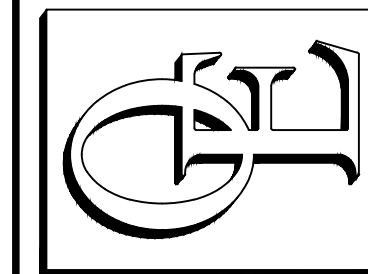


SIDE WALL SECTION

1

3/4"=1'-0"

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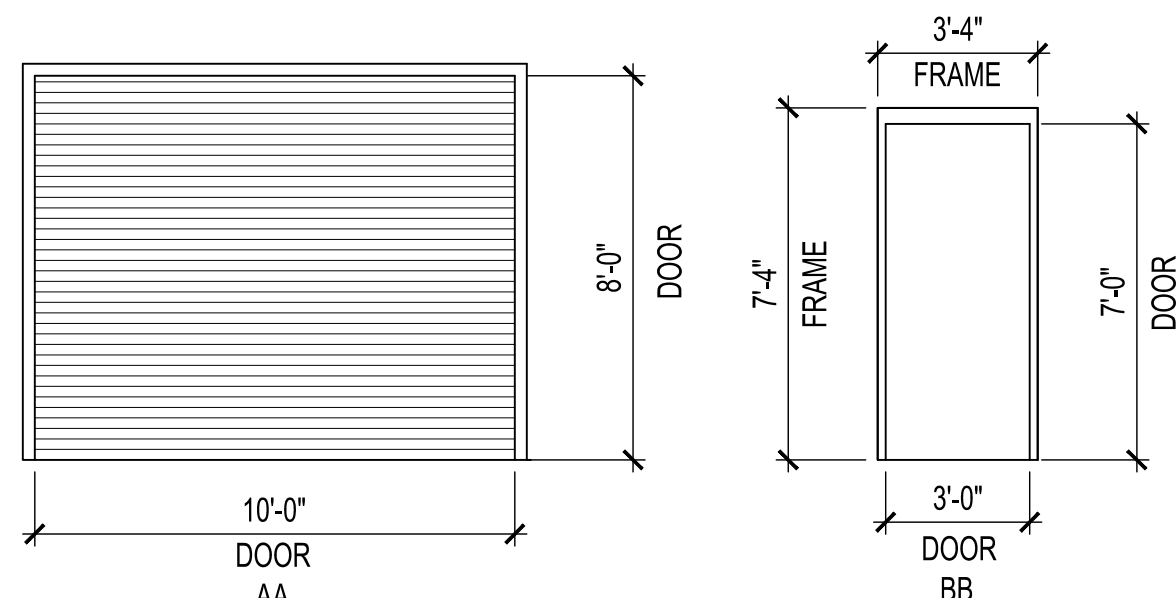
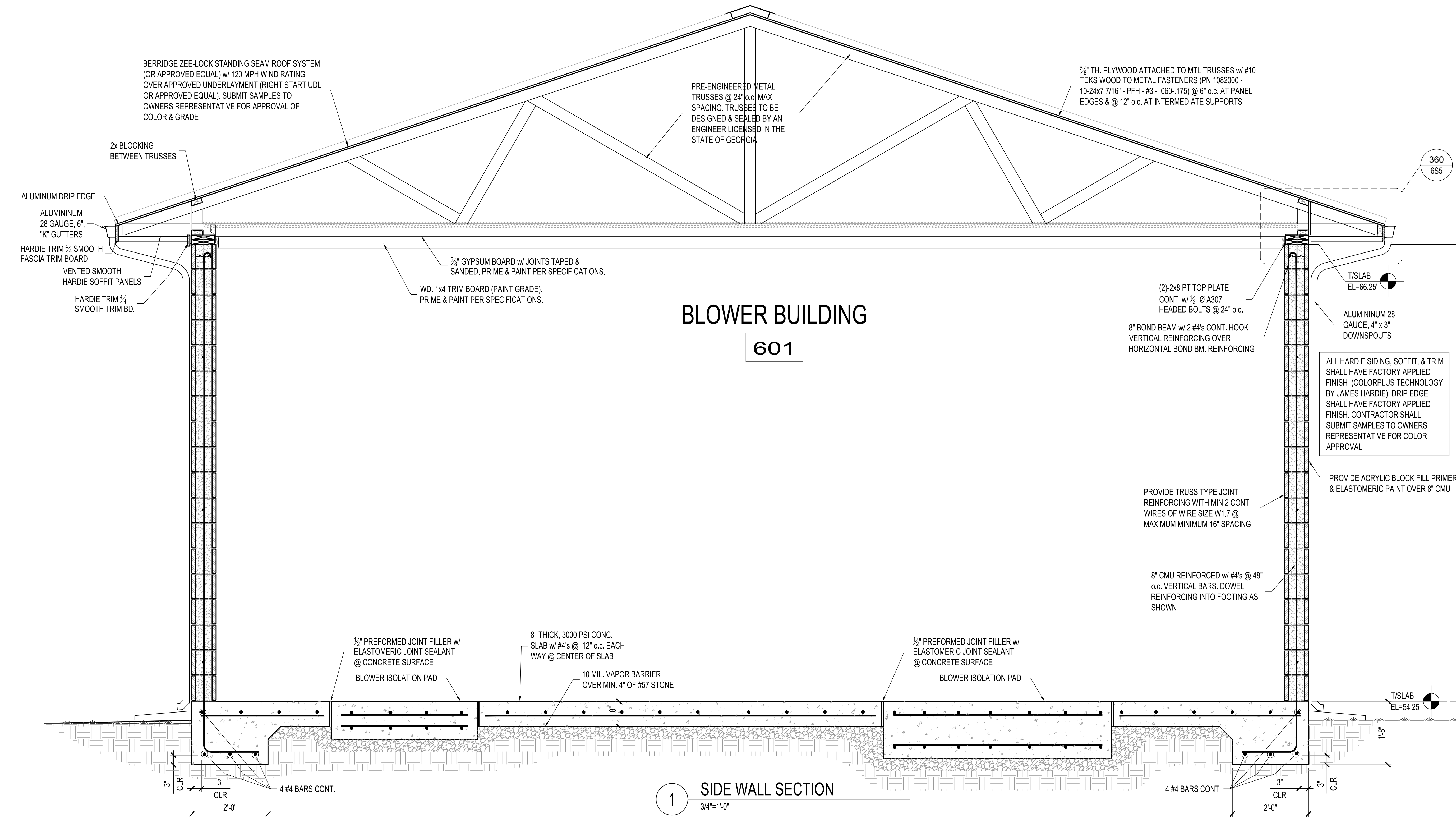
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EPD SUBMITTAL			
10-10-2019			85% SET FOR REVIEW
02-28-2019			85% SET FOR REVIEW
06-14-2019			85% SET FOR REVIEW

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BLOWER BUILDING

SECTIONS

9S-3
SHEET 3 OF 07



3 DOOR & FRAME ELEVATIONS
N.T.S.

FINISH SCHEDULE								
ROOM NUMBER	FLOORS		WALLS		CEILING		REMARKS	
601	SEALED CONCRETE		PAINTED CMU		PAINTED GYP. BOARD			
602	SEALED CONCRETE		PAINTED CMU		PAINTED GYP. BOARD			
DOOR SCHEDULE								
DR. #	WIDTH	HEIGHT	THK.	TYPE	MATERIAL	FIRE LABEL	FRAME MTL.	REMARKS
601	10-0	8-0	5/8"	AA	GALV. STEEL		GALV. STEEL	FINISH SEE SPECS.
602	3-0	7-0	1 3/4"	BB	FRP		FRP	SEE NOTE FOR MFR.

NOTE: DOOR #602 BY CHEM-PRUF DOOR CO. OR APPROVED EQUAL.

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REGISTERED
No. 27855
PROFESSIONAL
ENGINEER
RALPH H. BOSWELL
10/10/2019

FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
10-10-2019			EPD SUBMITTAL
07-08-2019			85% SET FOR REVIEW
06-14-2019			85% SET FOR REVIEW

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BLOWER BUILDING

SECTIONS

9S-4
SHEET 4 OF 07

341 TURN-DOWN AT SIDEWALK
N.T.S.

342 CURB AND GUTTER
N.T.S.

344 6" SLAB JOINT DETAILS
N.T.S.

360 TRUSS TO WALL CONNECTION DETAIL
N.T.S.

A/A SECTION A-A
N.T.S.

368 TRUSS RIDGE DETAIL
N.T.S.

370 REINFORCED MASONRY CONSTRUCTION & REINFORCING
N.T.S.

LOW LIFT GROUTING PROCEDURE:

1. CONSTRUCT WALL TO HEIGHT OF 4'-0". ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
2. INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.
3. LIGHTLY WET THE UNITS AND FILLED CELLS TO 1 1/2" BELOW TOP COURSE.
4. DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING TO ALLOW WATER TO BE ABSORBED BY MASONRY.

ELEVATION NOTES:

1. REINFORCING SHOWN SHALL BE MINIMUM #4 RE-BAR UNLESS SHOWN OTHERWISE ON PLANS AND DETAILS.
2. BOND BEAM REINFORCING SHOWN SHALL BE DISCONTINUED AT CONTROL JOINTS.
3. PROVIDE 4" x 4" OPENING IN BOTTOM OF BOND BEAM FOR PASSAGE OF VERTICAL REINFORCING IN CMU BOND BEAM. PROVIDE 1" HOLE IN BOTTOM OF PRECAST LINTEL FOR PASSAGE OF VERT REINF.

375 CMU CORNER WALL DETAIL
N.T.S.

376 CMU INTERSECTING WALL DETAIL
N.T.S.

377 **BLOWER PAD DETAIL**
N.T.S. NOTE: BLOWER PADS ARE SIZED 6" LARGER
VERIFY THAT EQUIPMENT USED CORRESPONDS

378 SMALL BLOWER PAD DETAIL

380 PERMANENT TRUSS BRACING DETAIL
N.T.S.

SECTION at GABLE END

1. END WALL WIND BRACING MAY BE OMITTED IF GYPSUM BOARD DIAPHRAGM IS NAILED TO TRUSS BOTTOM CHORD.

← BUILDING WALL PROVIDES CONTINUOUS BEARING FOR TRUSS UNLESS NOTED OTHERWISE

372 ROLL-UP DOOR JAMB REINF.
N.T.S.

373 WALL REINF.@ OPENING w/ STEEL LINTEL
N.T.S.

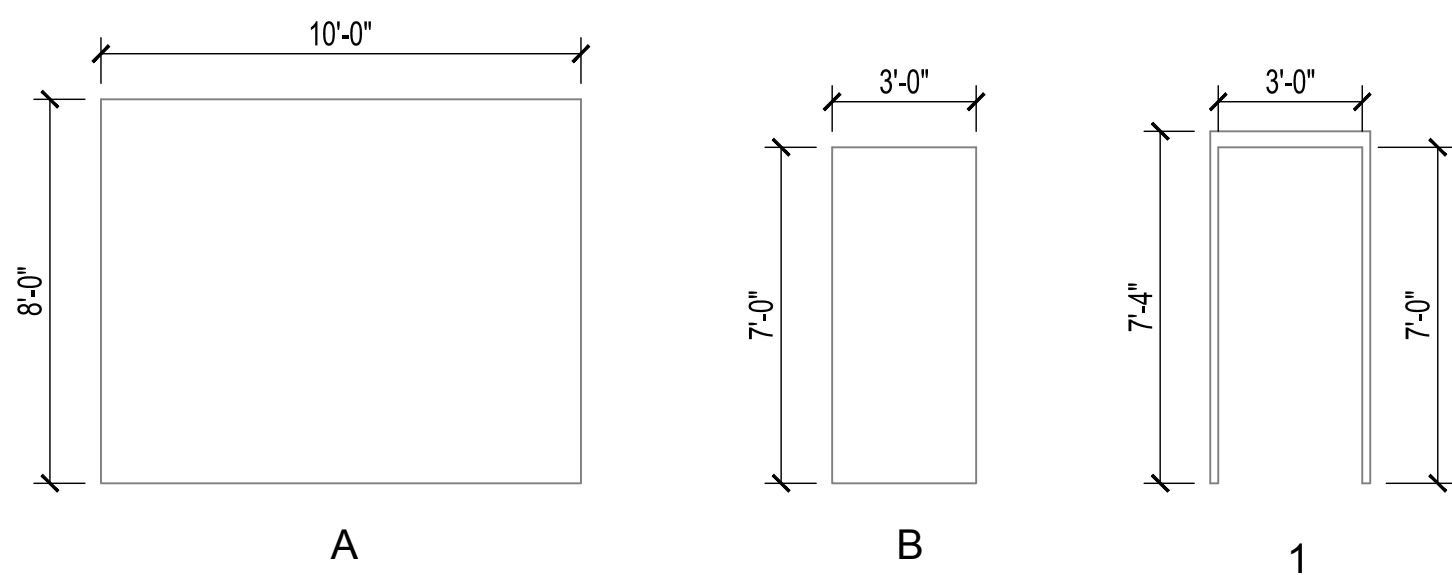
D O O R S C H E D U L E

DOOR NUMBER	DOOR LOCATION	DOORS						FRAME							LABEL	HDW. SET (NOTE 1)	REMARKS	DOOR NUMBER
		TYPE	WIDTH	SIZE HEIGHT	THICK	MAT'L	FINISH	SIZE	TYPE	MATERIAL	FINISH	HEAD	JAMB	THR.				
601	BLOWER BUILDING	A	10'-0"	8'-0"	-	STL	PREFINISHED	-	-	-	-	1/A-5	2/A-5	---		-		601
602	BLOWER BUILDING	B	3'-0"	7'-0"	1-3/4"	FIBERGLASS	PAINT	7-1/4"	1	H.M.	PAINT	1/A-5	2/A-5	---		1		602
603	SWITCH GEAR	B	3'-0"	7'-0"	1-3/4"	FIBERGLASS	PAINT	7-1/4"	1	H.M.	PAINT	1/A-5	2/A-5	---	45 MIN	1		603

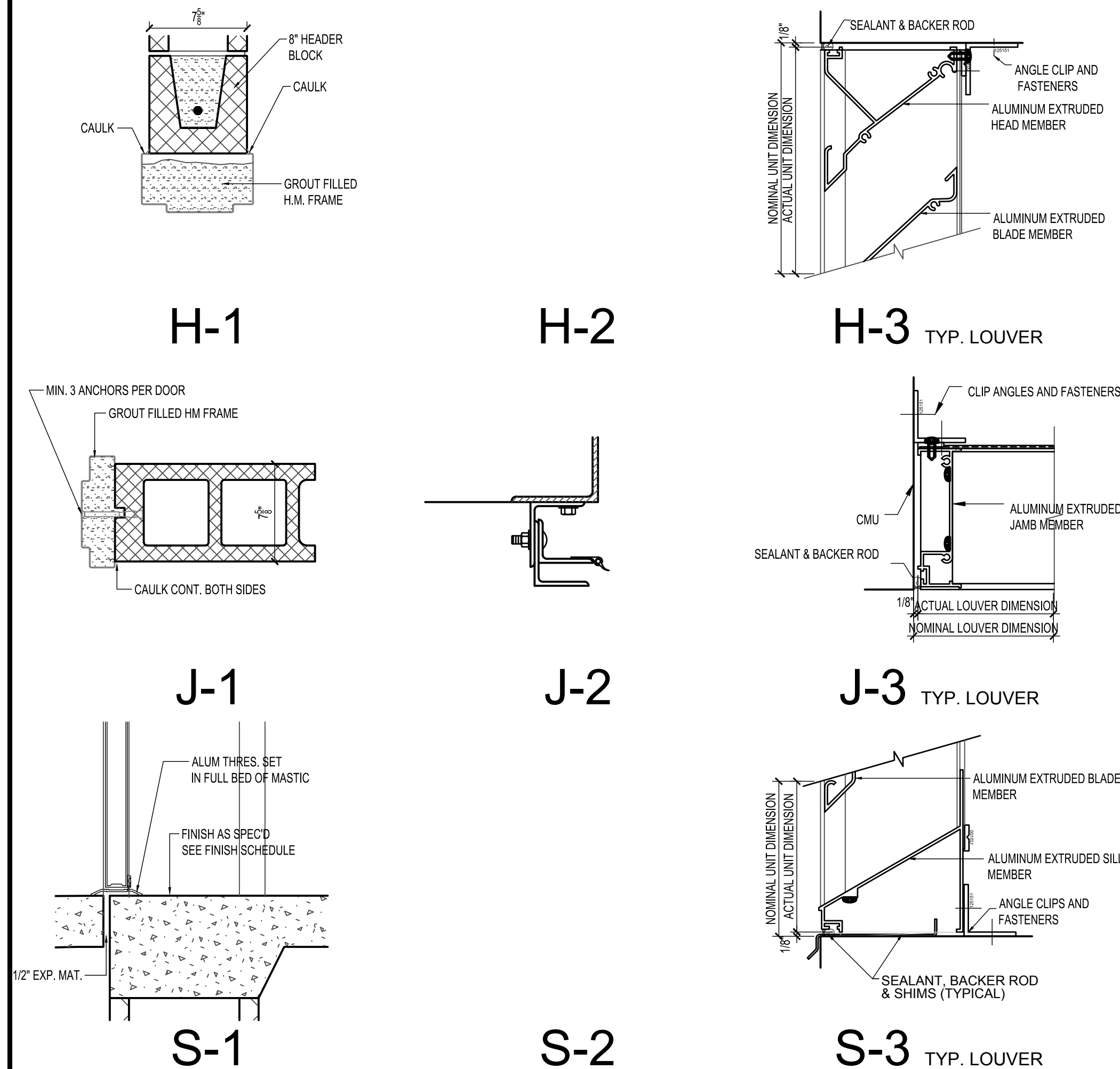
NOTES:

1. ALL DOOR HARDWARE SHALL BE OPERABLE LEVER TYPE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE

DOOR AND FRAME TYPES



DOOR AND LOUVER DETAILS



ROOM FINISH SCHEDULE

KEY		FLOOR				BASE				WALLS				CEILING				NOTES
-		SEALED CONCRETE					NONE											
NO.	NAME																	
	BLOWER ROOM															12'	-	
	SWITCH GEAR ROOM															12'	-	

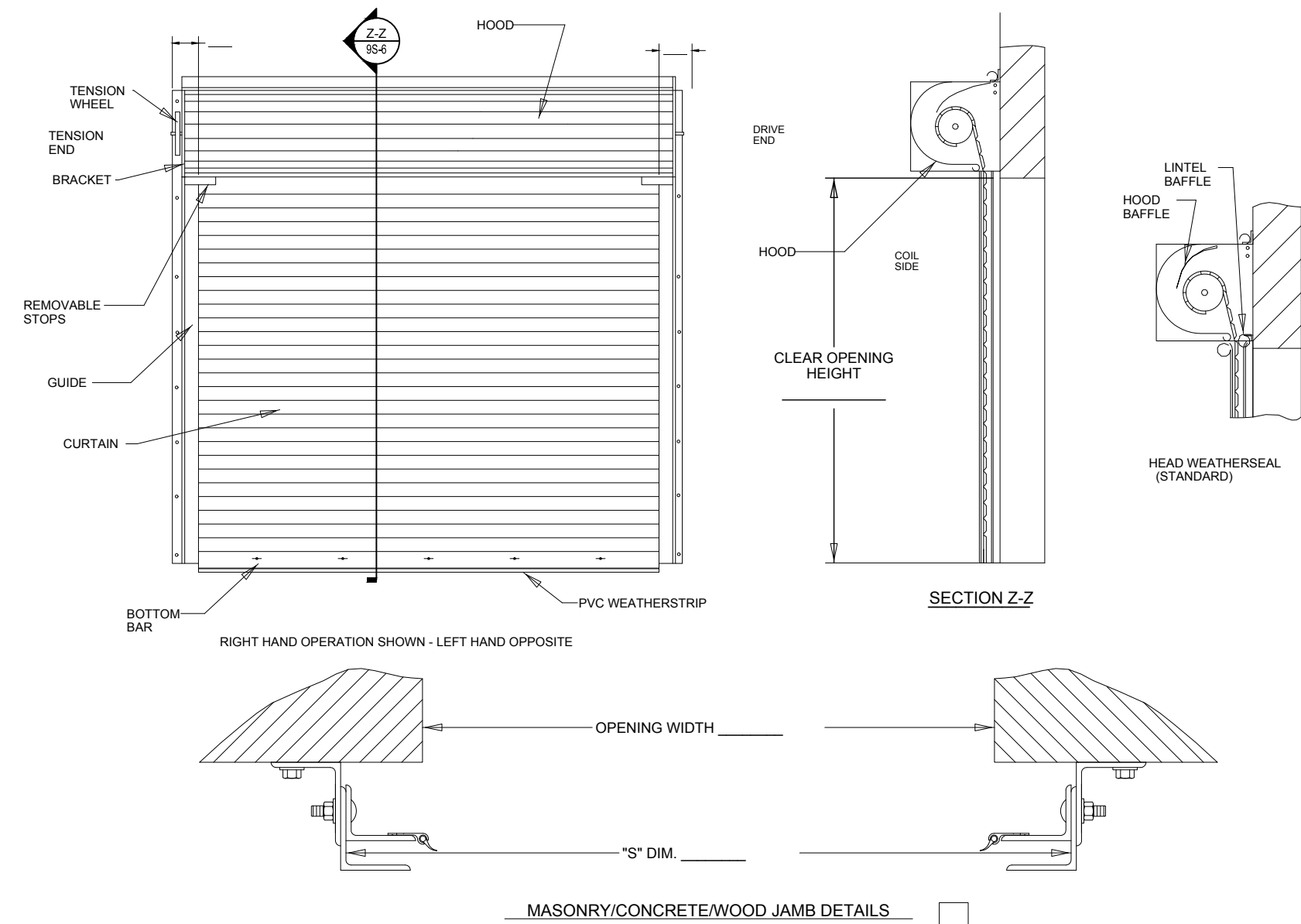
ROOM FINISH NOTES

LIST OF FINISHES

INTERIOR PAINT

ITEM	MANUFACTURER	SPECIFICATION	COLOR NUMBER	COLOR	REMARKS
P-1	SHERWIN WILLIAMS	FLAT	-	BY OWNER	WALL
P-2	SHERWIN WILLIAMS	FLAT	-	BY OWNER	CEILING

ROLL UP DOOR DETAIL

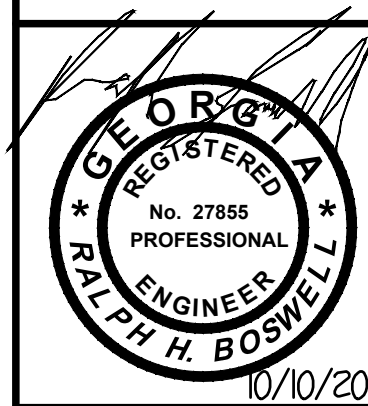


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**FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON GEORGIA
CHARLTON COUNTY, GEORGIA**

[illegible]

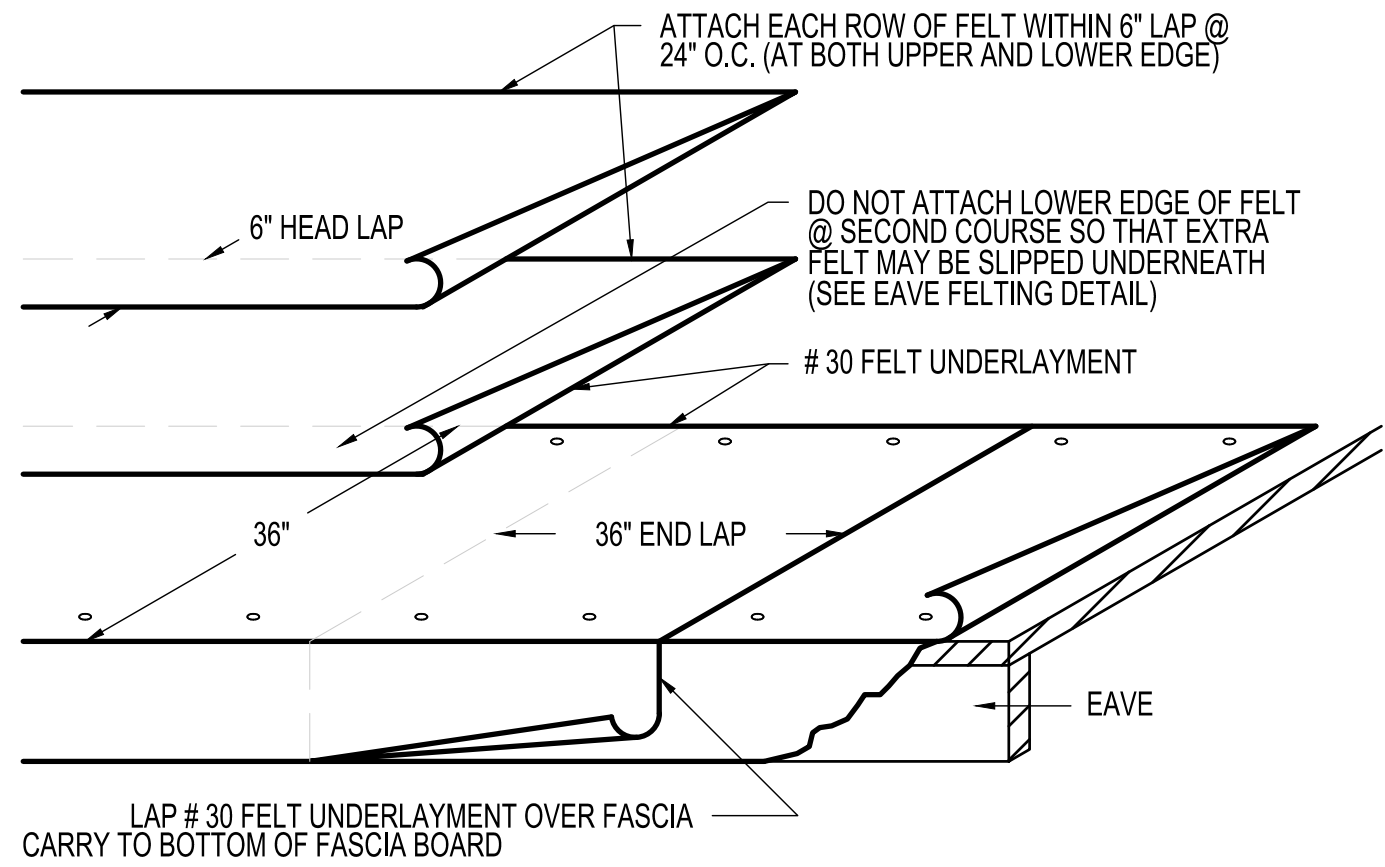
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 DATE: 6-14-2019
 DESIGNED:
 DRAWN:
 CHECKED:
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BLOWER BUILDING

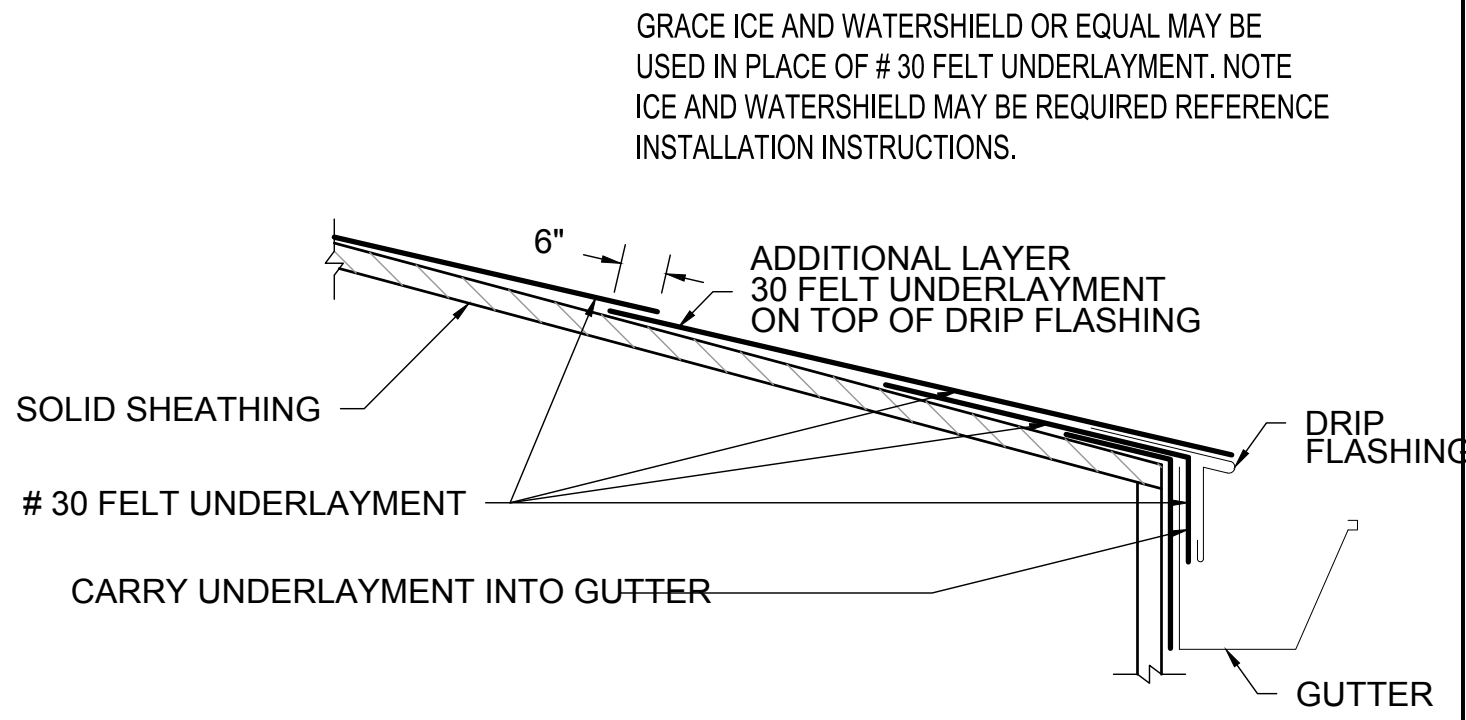
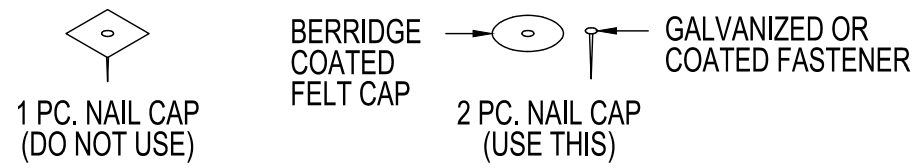
DETAILS & SCHEDULES

9S-6
SHEET 6 OF 07

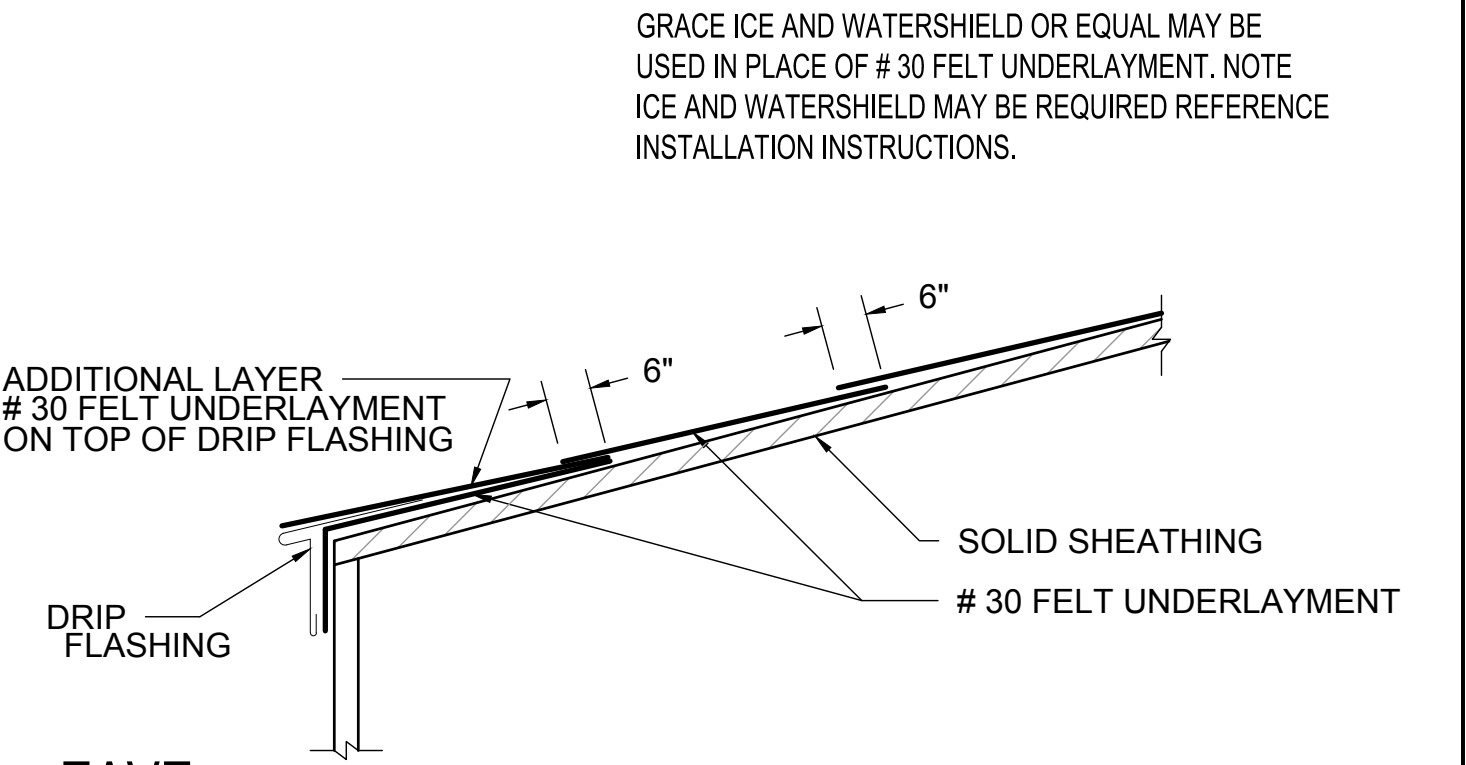
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2. 10/10/2019 10:00:00 AM
3. 10/10/2019 10:00:00 AM
4. 10/10/2019 10:00:00 AM
5. 10/10/2019 10:00:00 AM
6. 10/10/2019 10:00:00 AM
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17. 10/10/2019 10:00:00 AM



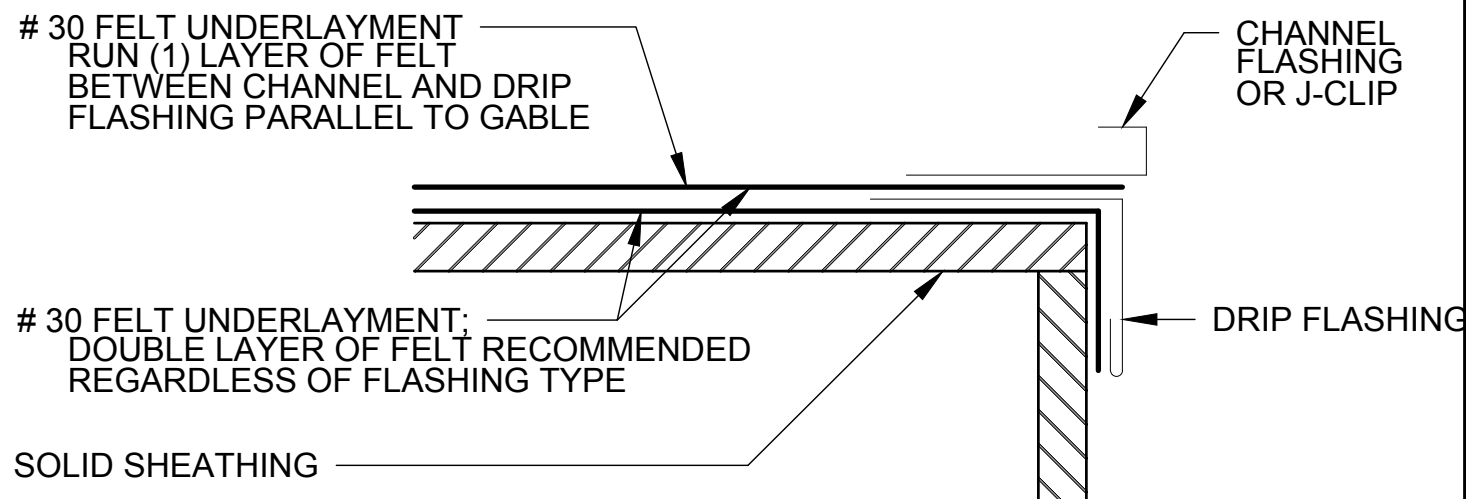
- CLEAN ROOF SURFACE OF ALL OBJECTS WHICH MAY PUNCTURE OR TEAR FELT UNDERLAYMENT.
- ATTACH FELT UNDERLAYMENT TO DECK BELOW USING COATED FELT CAPS. FASTENERS MUST BE TOTALLY FLUSH WITH SUBSTRATE. DO NOT USE ONE PIECE NAIL CAPS, AS THESE WILL "READ THROUGH" THE SURFACE.
- DO NOT FASTEN LOWER EDGE OF FELT @ SECOND COURSE (SEE ABOVE ILLUSTRATION).
- ALWAYS RUN FELT UNDERLAYMENT HORIZONTALLY STARTING @ THE EAVE AND LAP SHINGLE FASHION.
- NEVER INSTALL BERRIDGE PRODUCTS OVER FELT UNDERLAYMENT THAT IS NOT LAID HORIZONTAL, FLAT, SMOOTH AND FREE FROM PUNCTURES AND TEARS.
- DO NOT APPLY PANELS OVER DRY OR BRITTLE FELT (A CONDITION CAUSED BY EXTENDED EXPOSURE TO THE ELEMENTS).
- DO NOT USE RED ROSIN PAPER UNDER ANY BERRIDGE METAL PRODUCT.



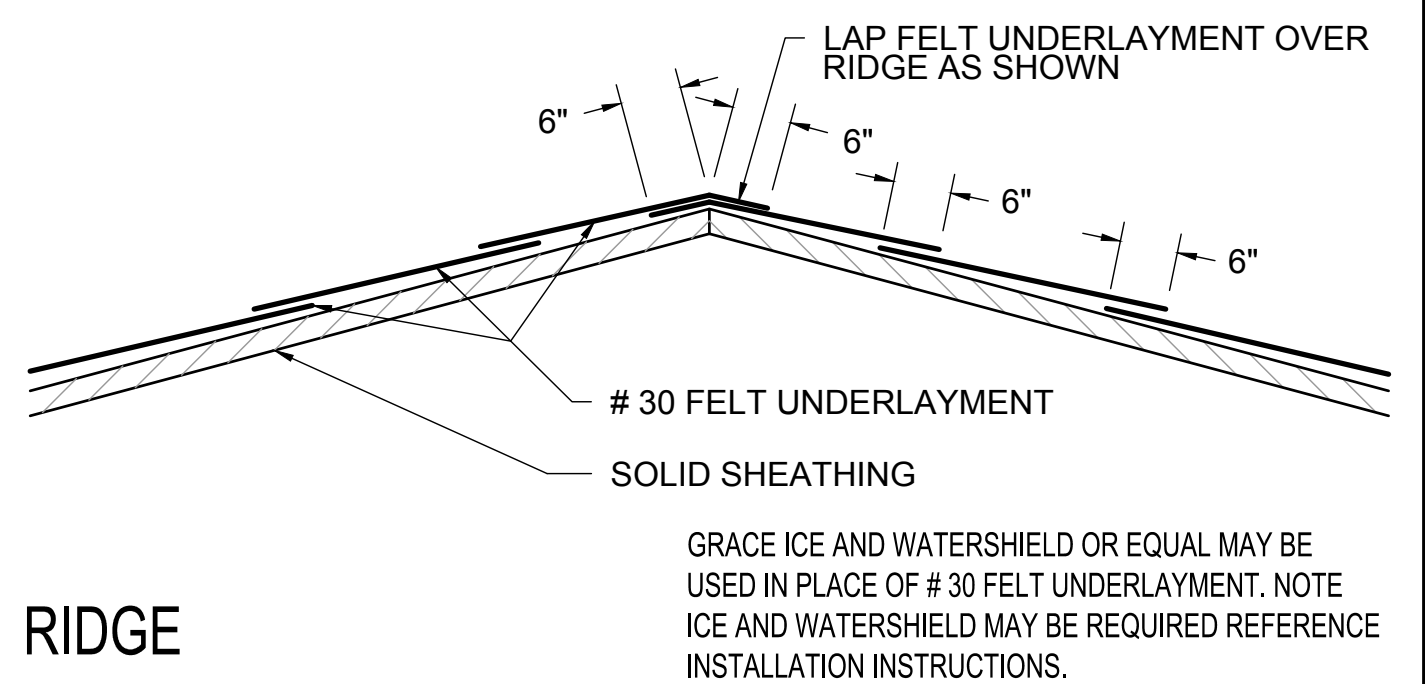
EAVE WITH GUTTER



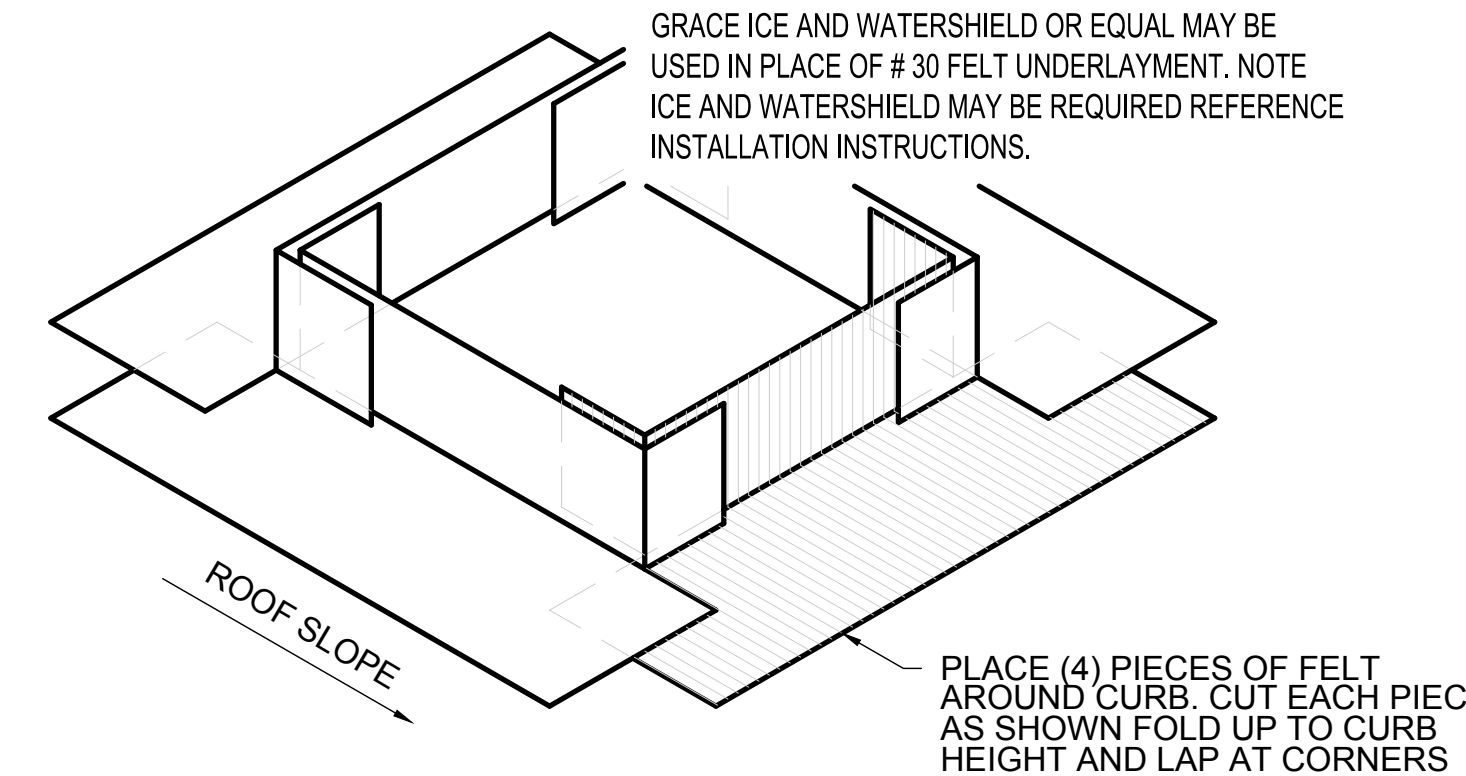
EAVE WITH GUTTER
EAVE
UNDERLAYMENT



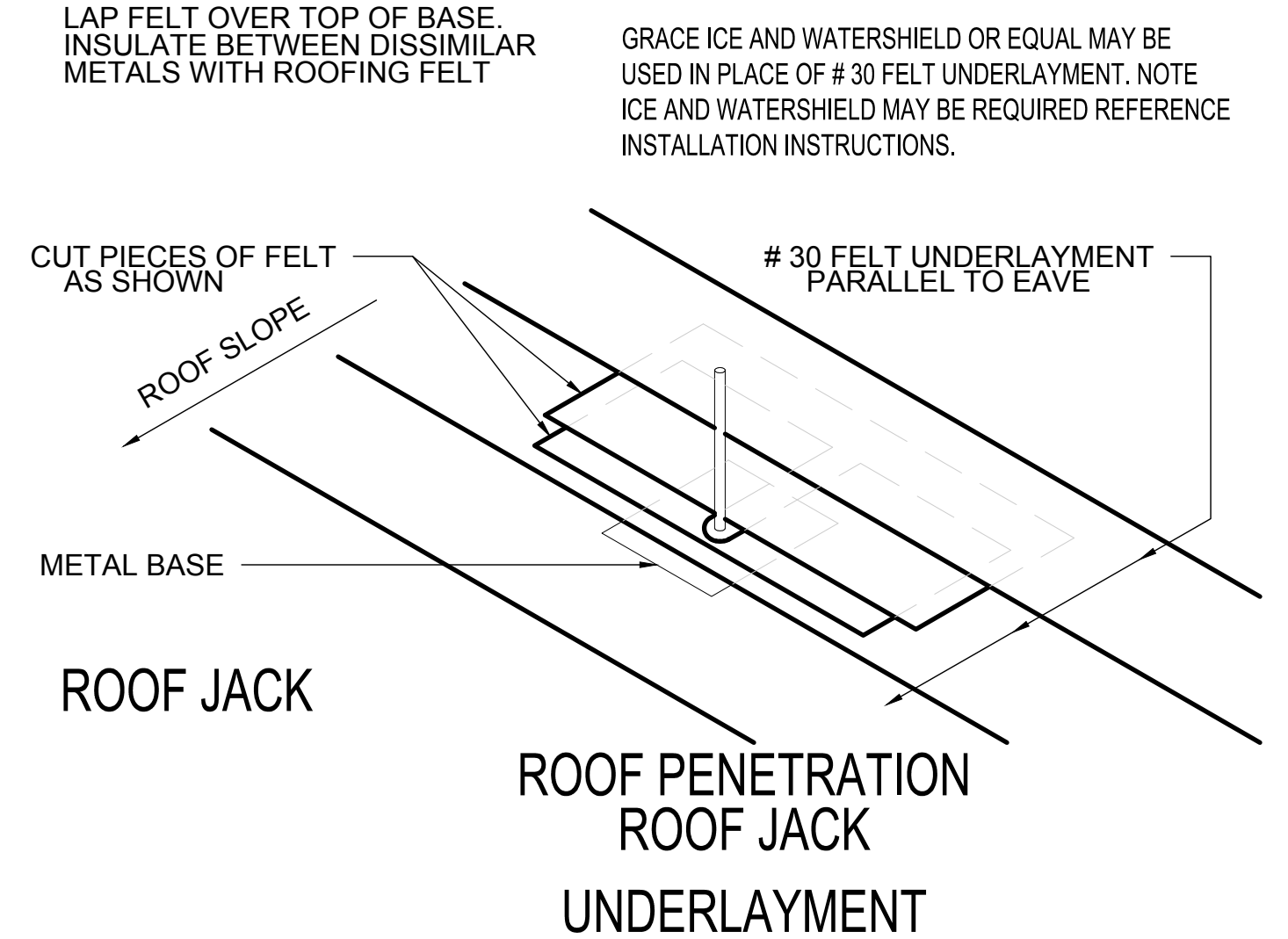
GABLE
GABLE
UNDERLAYMENT



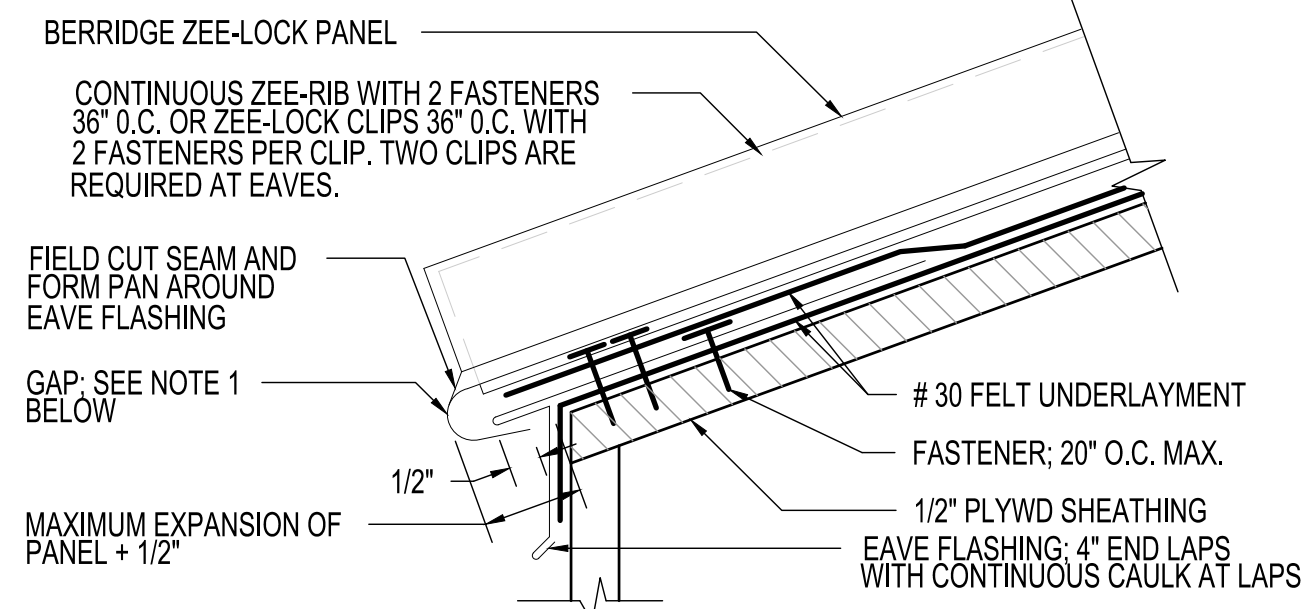
RIDGE
RIDGE
UNDERLAYMENT



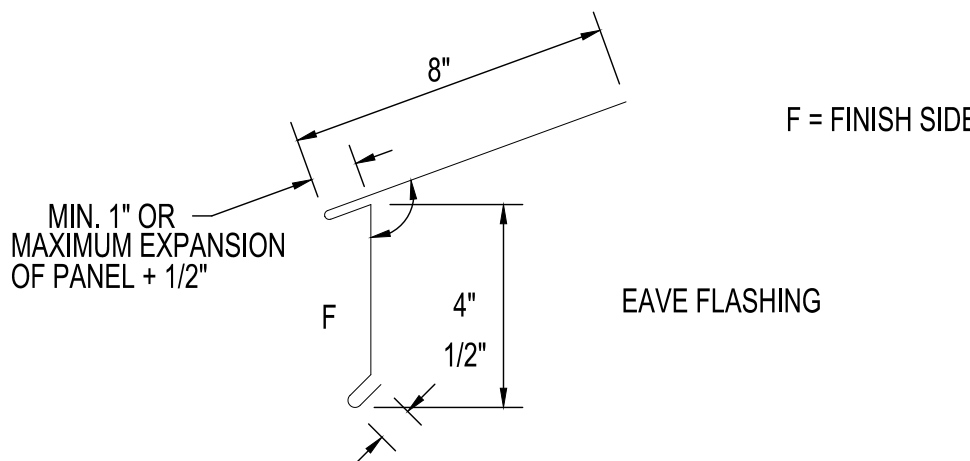
ROOF PENETRATION



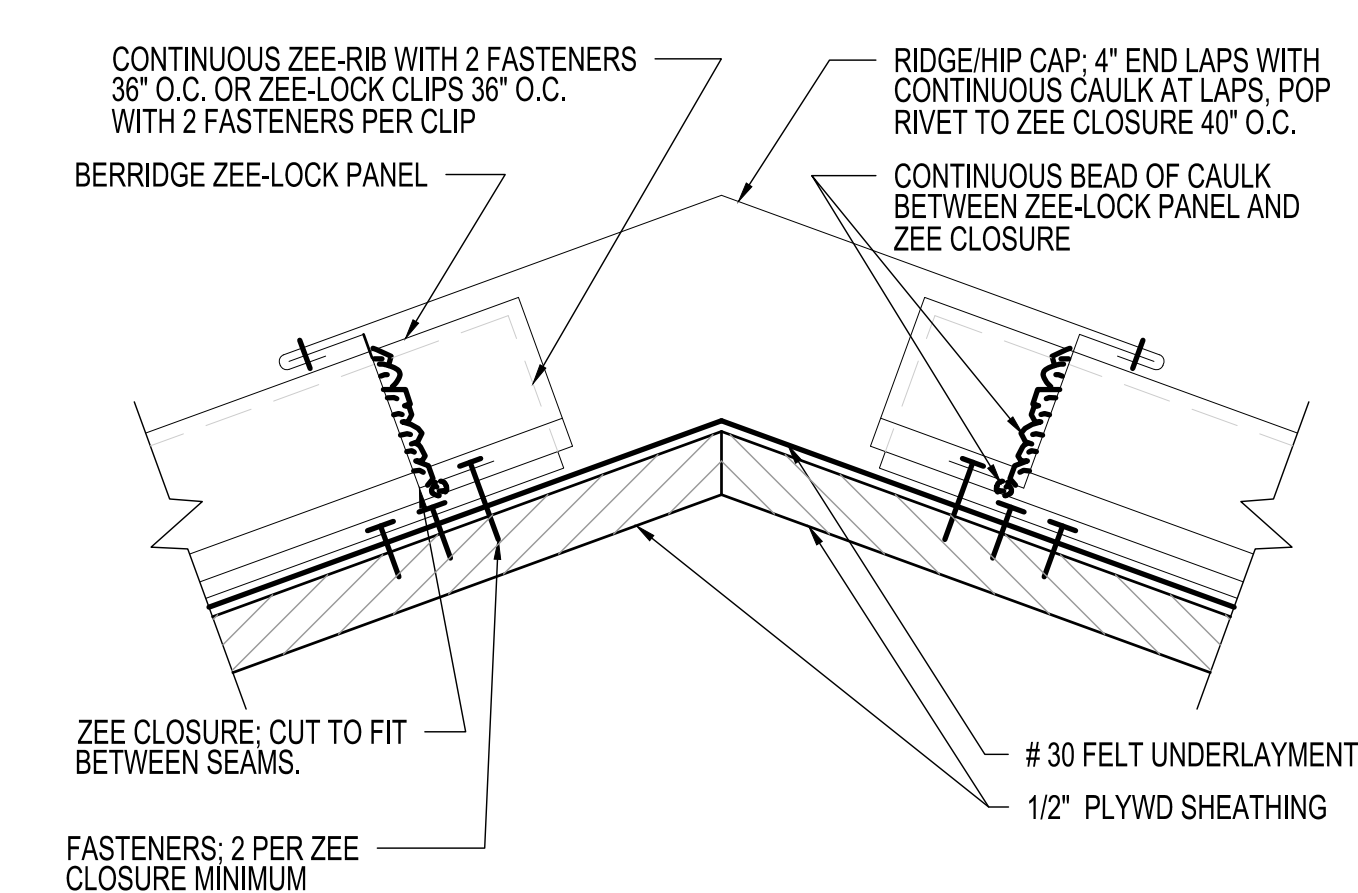
ROOF JACK
ROOF PENETRATION
ROOF JACK
UNDERLAYMENT



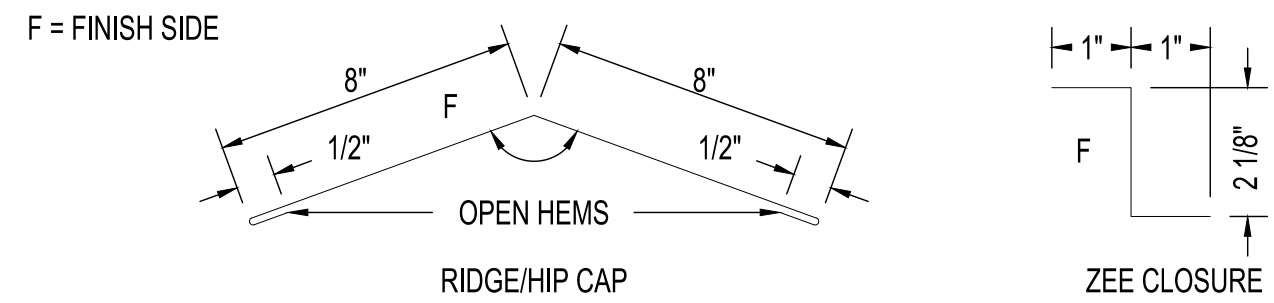
- THE "GAP" BETWEEN EAVE FLASHING AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION OF PANELS. NOTE 1/2" OF PAN MUST BE ENGAGED WITH EAVE FLASHING WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH.
- GAP BETWEEN EAVE FLASHING AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE DURING INSTALLATION.



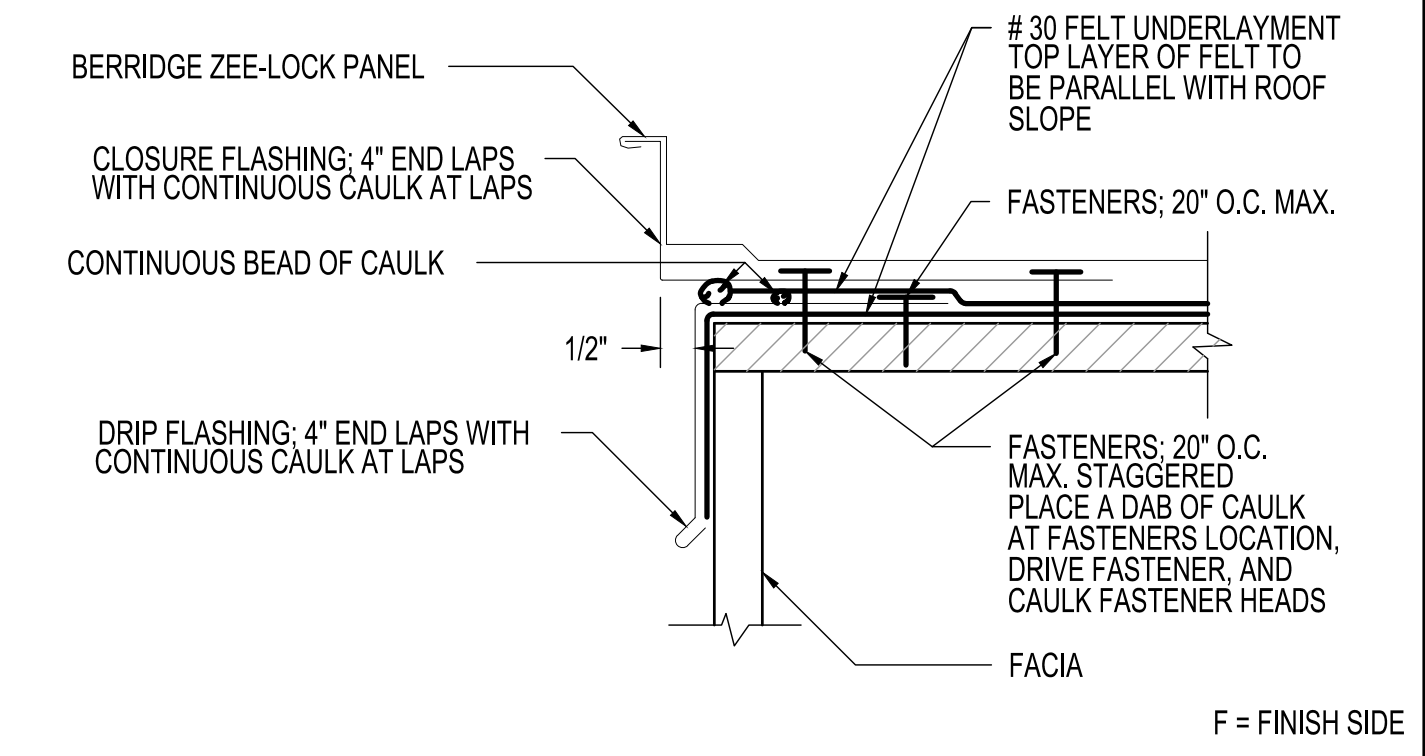
EAVE DETAIL



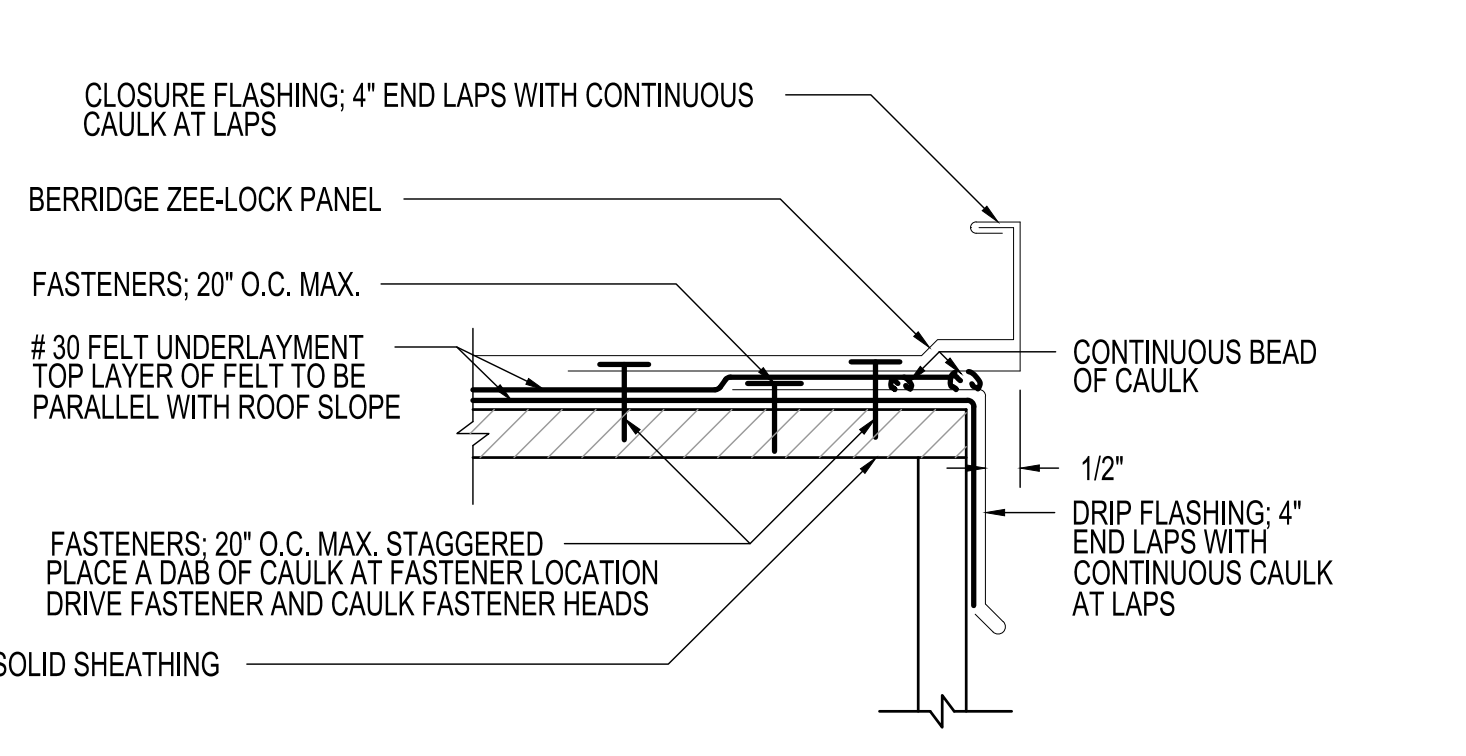
- FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS FOR RIDGE.



RIDGE DETAIL



GABLE DETAIL
LEFT SIDE; CLOSURE FLASHING;



GABLE DETAIL
RIGHT SIDE; CLOSURE FLASHING;

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FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
1	10/10/2019	EPD	SUBMITAL
2	10/10/2019	85% SET FOR REVIEW	
3	10/10/2019	85% SET FOR REVIEW	
4	10/10/2019	85% SET FOR REVIEW	

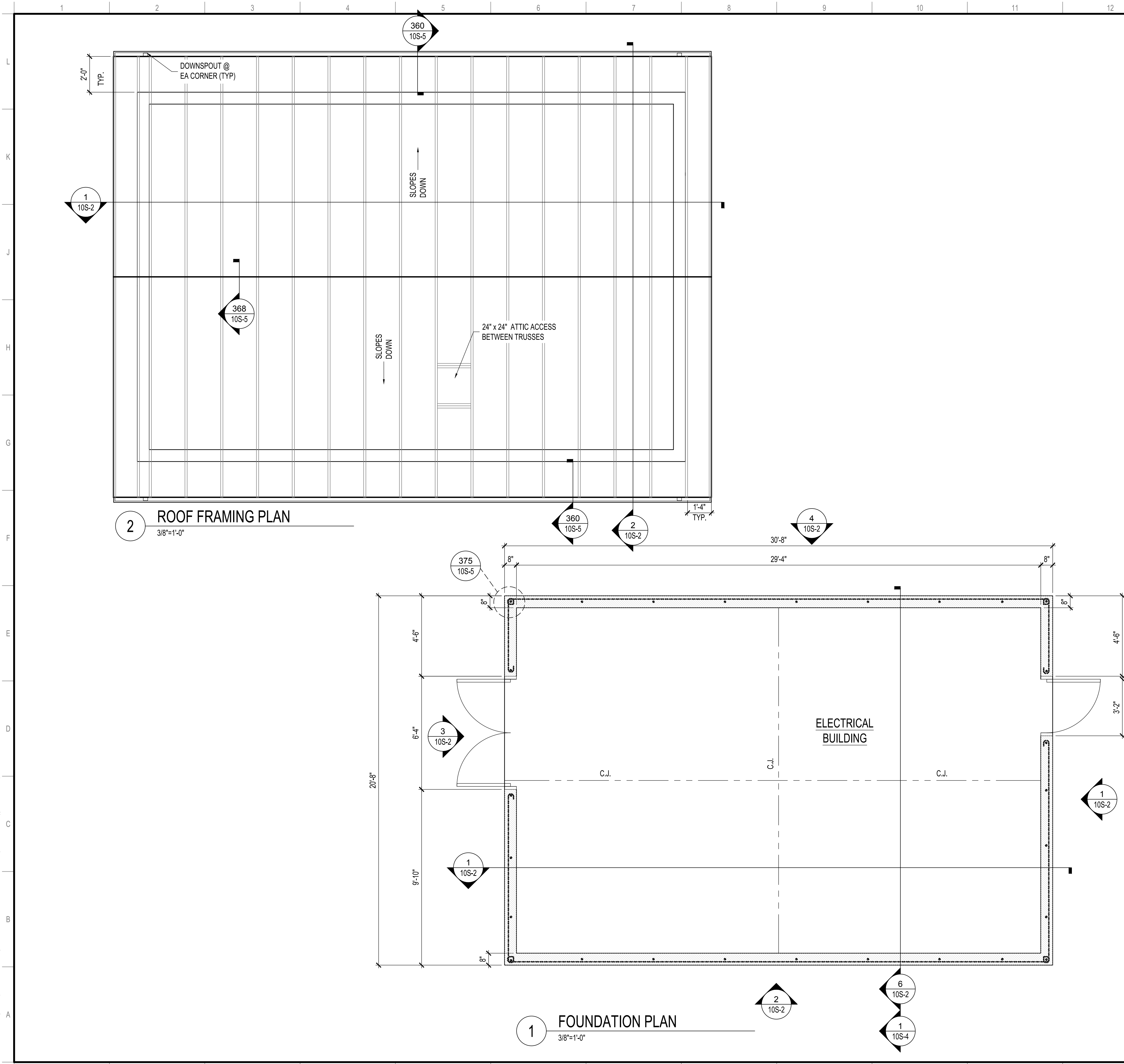
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ORIGINAL DRAWING SIZE: 36"x24"
DATE: 6-14-2019
APPROVED:
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BLOWER BUILDING

DETAILS

9S-7
SHEET 7 OF 07

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CMU WALL NOTES

1. REINF CMU WALLS W/ #4@48"OC UNO.
2. ADDITIONAL #4 VERT REINF AT:
 - 2.1. EACH SIDE OF OPENINGS
 - 2.2. WALL INTERSECTIONS
 - 2.3. ENDS OF WALLS
 - 2.4. AS NOTED & DETAILED ON DRAWINGS
3. PROVIDE BOND BEAMS REINF W/ (2)-#4 CONT AT:
 - 3.1. T&B OF OPENINGS
 - 3.2. TRUSS BEARING (CONT)
 - 3.3. TOP COURSE OF MASONRY WALLS
 - 3.4. AS NOTED & DETAILED ON DRAWINGS
4. PROVIDE MATCHING DOWELS FOR VERT REINF INTO FOUNDATION AND BOND BEAM @ TOP.
5. FILL ALL CMU CELLS BELOW FINISHED FLOOR & BELOW GRADE. FILL MATERIAL SHALL BE 3000 PSI GROUT, MIN.

WOOD FRAMING NOTES

1. SEE PRE-ENGINEERED METAL TRUSS NOTES FOR ROOF TRUSSES.
2. ROOF SHEATHING SHALL BE 5/8" APA RATED SHEATHING W/ #10 TEKS SCREWS @6"OC @ PANEL EDGES & @12"OC @ INTERMEDIATE SUPPORTS.

CONC REINF LAP LENGTH

BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	22"
#4	29"
#5	36"
#6	43"
#7	63"
#8	72"
#9	81"

CMU REINF LAP LENGTH

Fy=60 KSI, fm=1500 PSI	
BAR SIZE	SPLICE LENGTH
#3	19"
#4	25"
#5	31"
#6	57"
#7	70"
#8	98"

MASONRY LINTEL SCHEDULE

OPENING WIDTH	8" CMU		16" CMU	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
3'-4"	3'-4"	5'-4"	2 - #4	2 - #4
3'-4"	5'-4"	7'-4"	2 - #5	2 - #5
5'-4"	7'-4"	10'-0"	2 - #6	2 - #6
7'-4"	10'-0"			2 - #6

1. EXTEND BOND BEAM REINFORCING 24" OR 40 BAR DIAMETERS (WHICHEVER IS GREATER) BEYOND THE EXTENTS OF THE OPENING. VERTICAL REINFORCING AT THE SIDES OF THE OPENING SHALL BE CONTINUOUS THROUGH THE BOND BEAM. PROVIDE KNOCK OUTS IN THE BOTTOM OF THE BOND BEAM BLOCK AS REQUIRED TO ALLOW REINFORCING TO PASS THROUGH.
2. SEE DETAILS 373 & 374 FOR ADDITIONAL REINFORCING AT OPENINGS.

STRUCTURE NOTES

1. DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BRN'G PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION AND ENGINEER SHALL BE NOTIFIED IF ACTUAL SOIL BEARING PRESSURE IS LOWER THAN DESIGN VALUE. FOUNDATION DESIGN & SUBSURFACE INFORMATION IS BASED ON A SOILS REPORT PREPARED BY TERRACON CONSULTING, INC. (PROJECT# ES165069).
2. FLOOR LIVE LOAD = 100 PSF
3. PRE-ENGINEERED TRUSS DESIGN LOADS:
TOP CHORD:
DEAD LOAD = 10 PSF + TRUSS WEIGHT
LIVE LOAD = 20 PSF
BOT CHORD:
DEAD LOAD = 5 PSF + TRUSS WEIGHT
LIVE LOAD = 10 PSF (60 PSF @ ACCESS LOCATIONS)
MECH LOAD = 200# CONCENTRATED LOAD @ ANY LOCATION ALONG BOT CHORD
4. WIND LOADS:
BASIC WIND SPEED (V, 3 SEC GUST) = 110 MPH
OCCUPANCY CATEGORY = IV
WIND IMPORTANCE FACTOR (Iw) = 1.15
UPWIND EXPOSURE CATEGORY = B
INTERNAL PRESSURE COEFF. (GCp) = ±0.18
COMPONENTS & CLADDING NET DESIGN PRESSURES (PNET PER ASCE 7-10, METHOD 1)
ROOF COMPONENTS & CLADDING DESIGN PRESSURES:
MAIN ROOF = -55.1 PSF, +13.1 PSF (BASED ON 20 SF AREA)
OVERHANG = -70.8 PSF
WALL COMPONENTS & CLADDING DESIGN PRESSURES = -33.5 PSF, + 25.0 PSF (BASED ON 10 SF AREA)
5. SEISMIC DESIGN CRITERIA:
OCCUPANCY CATEGORY = IV
SEISMIC IMPORTANCE FACTOR (Ie) = 0.127
Ss = 0.127 S1 = 0.067
SITE CLASS = D
S0.8 = 0.135 S0.1 = 0.107
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-10 TABLE 12.2-1 OR 12.14-1):
BEARING WALL SYSTEM - LATER MEDIATE REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION FACTOR (R) = 3.5
SEISMIC RESPONSE COEFF. (Cs) = 0.059
SEISMIC DESIGN CATEGORY = C
DESIGN BASE SHEAR = 23.6 K
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

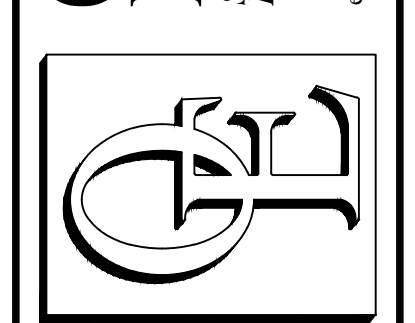
FOUNDATION NOTES

1. STEP FOOTINGS DOWN BELOW MECHANICAL, ELECTRICAL, OR PLUMBING LINES AS REQUIRED TO AVOID INTERFERENCE. SEE TYP FOOTING STEP DETAIL. COORDINATE W/ OTHER TRADES. PROVIDE PIPE SLEEVE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL.
2. WHERE UTILITY LINES PASS UNDER A FOOTING, PROVIDE RELIEVING ARCH FOR PROTECTION.

CONC SLAB NOTES

1. SIDEWALK SLABS SHALL BE 3000 PSI, 4" THICK CONC REINF W/ 6x6-W1.4xW1.4 WWF @ CENTER OF SLAB. FLOOR SLAB SHALL BE 3000 PSI, 8" THICK CONC. REINFORCED W/#4'S @12" o.c. EA WAY CTR. OF SLAB. SEE PLAN FOR FINISHED FLOOR ELEVATIONS. (REFER TO CIVIL DRAWINGS FOR SIDEWALK LOCATIONS & DETAILS.
2. PROVIDE 4" THICK NO. 57 STONE GRANULAR BASE & VAPOR BARRIER UNDER INTERIOR FLOOR SLAB.
3. CONDUITS & PIPES EMBEDDED IN SLABS:
 - 3.1. SHALL NOT BE LARGER IN OUTSIDE DIM THAN 1/3 THE OVERALL THICKNESS OF SLAB.
 - 3.2. SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
 - 3.3. MIN SLAB THICKNESS OF 2 1/2" MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.

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REGISTERED PROFESSIONAL ENGINEER
RALPH H. BOSWELL
10/10/2019

FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

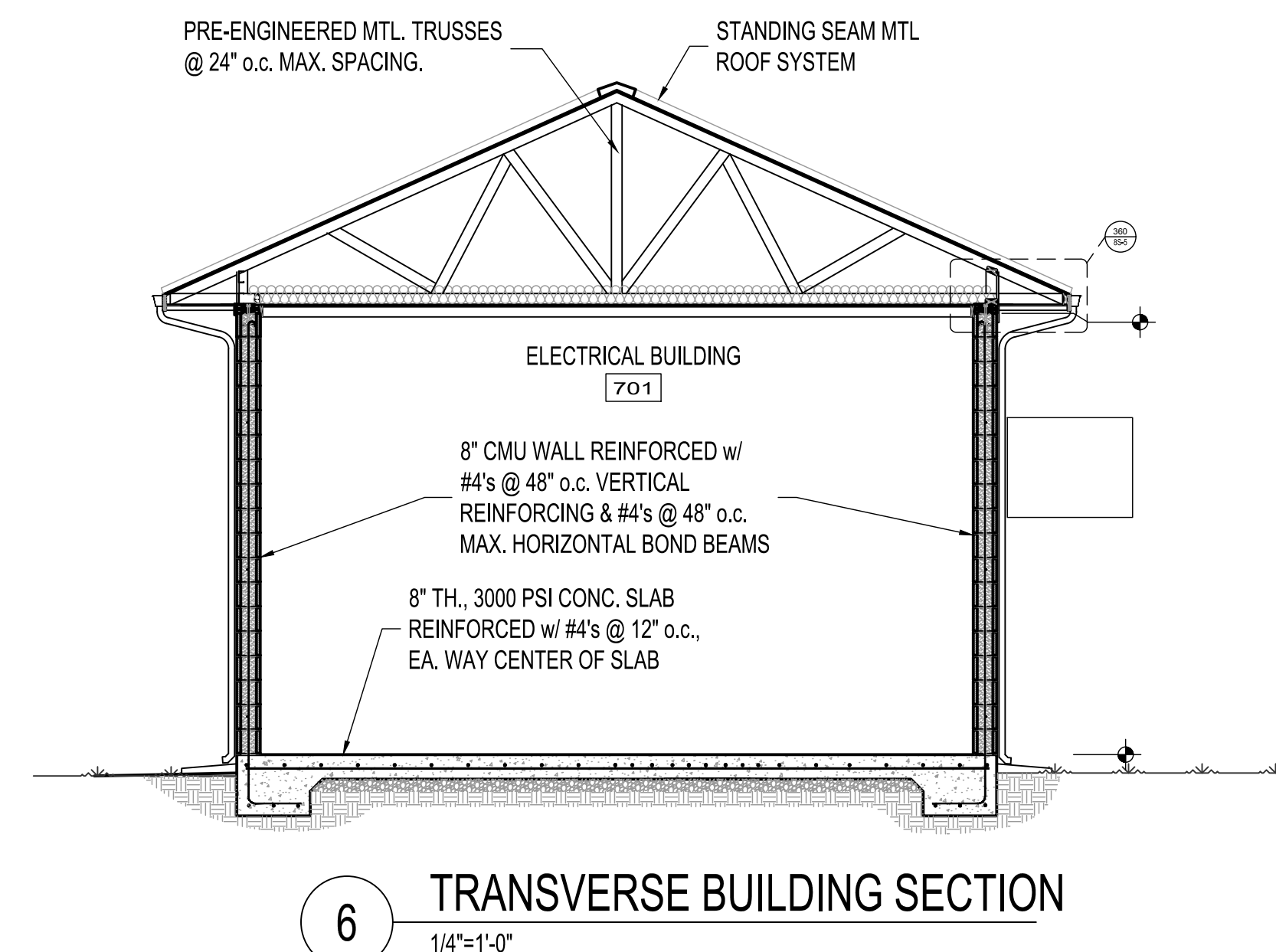
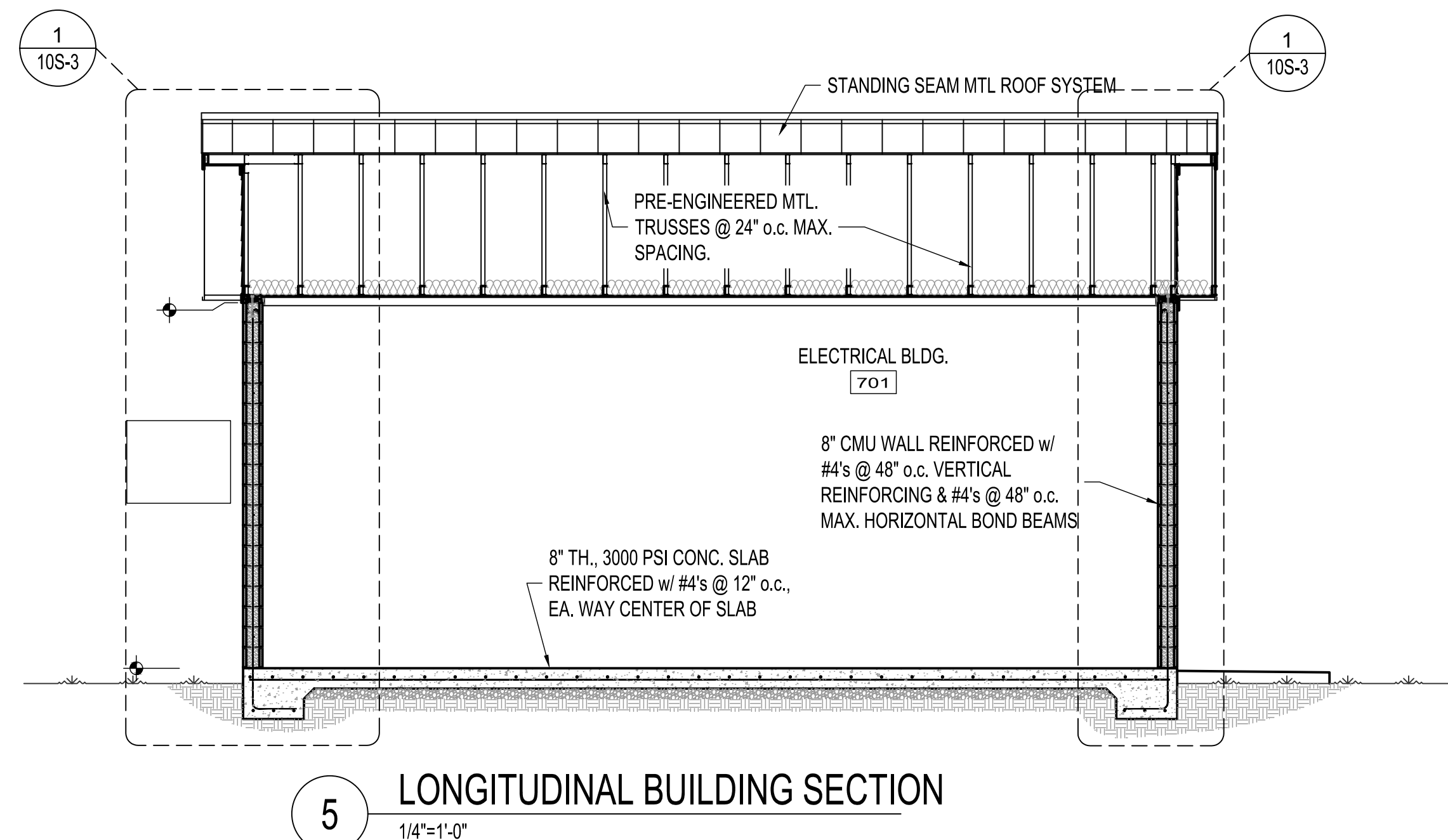
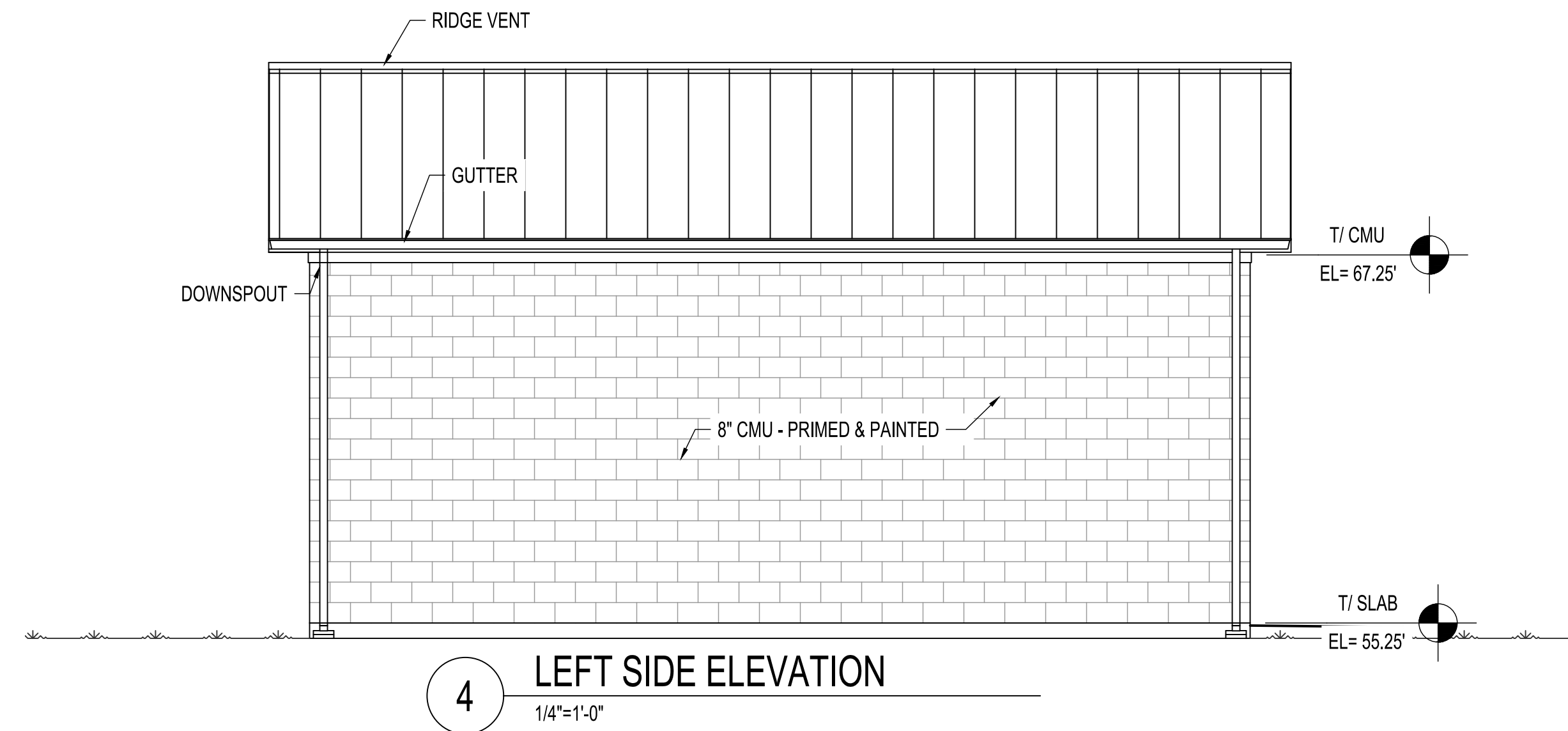
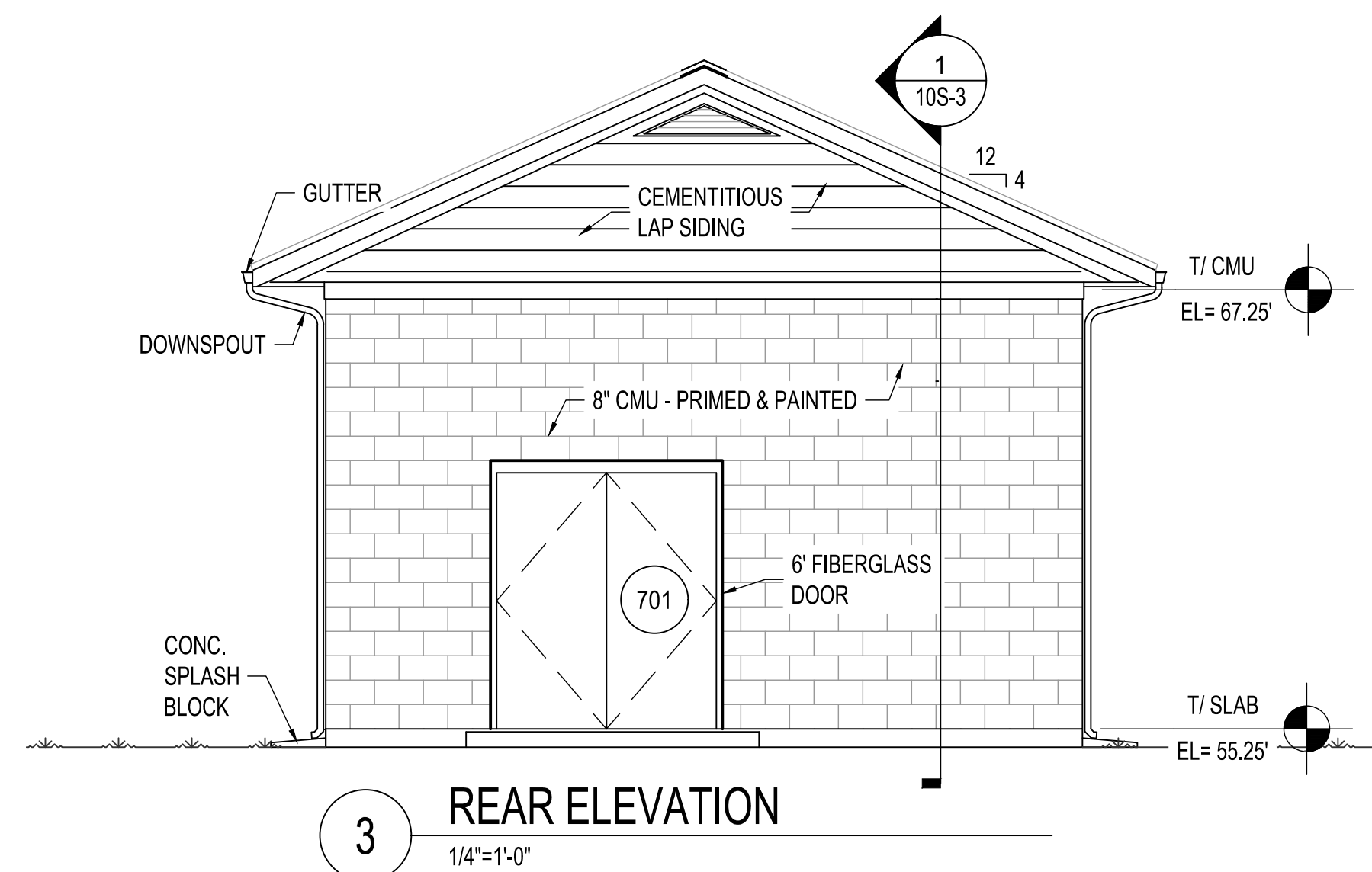
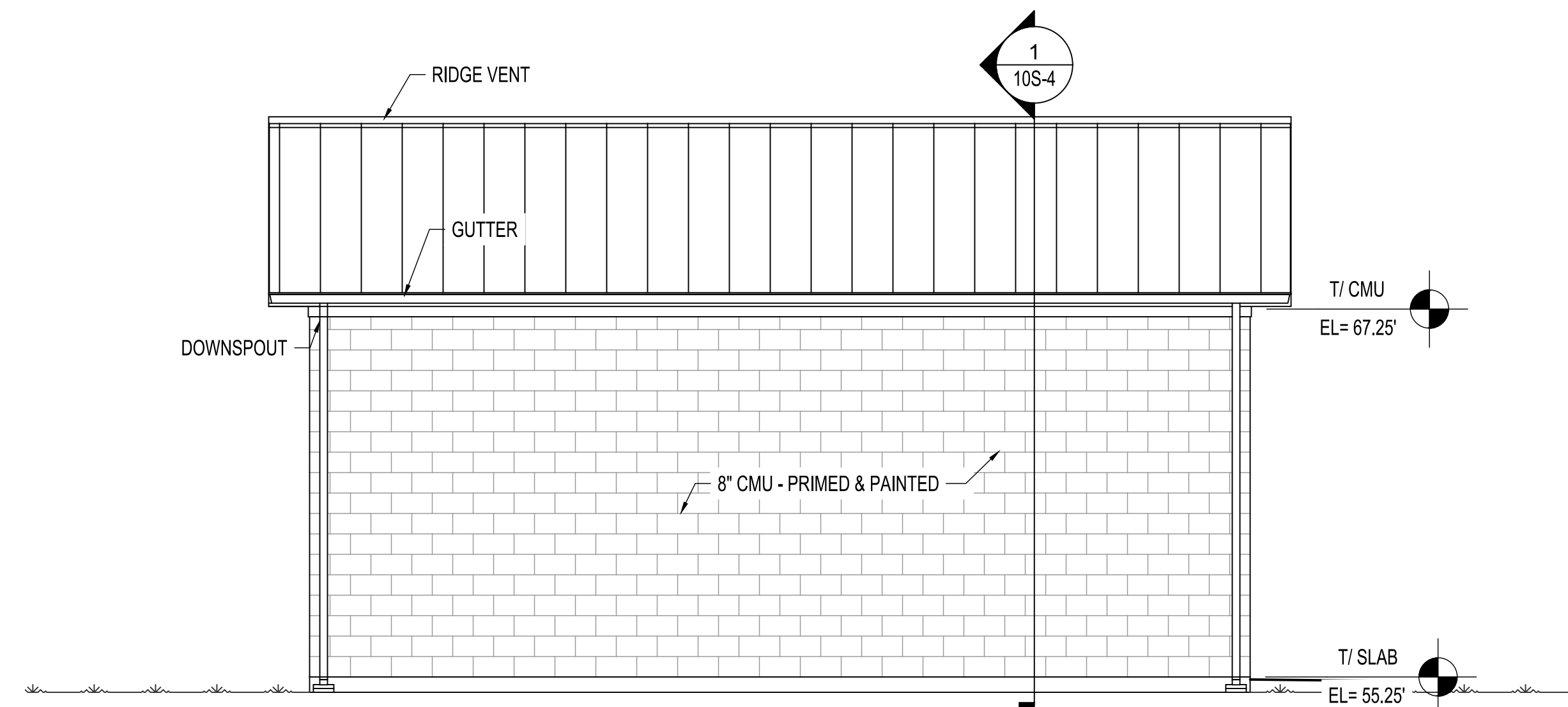
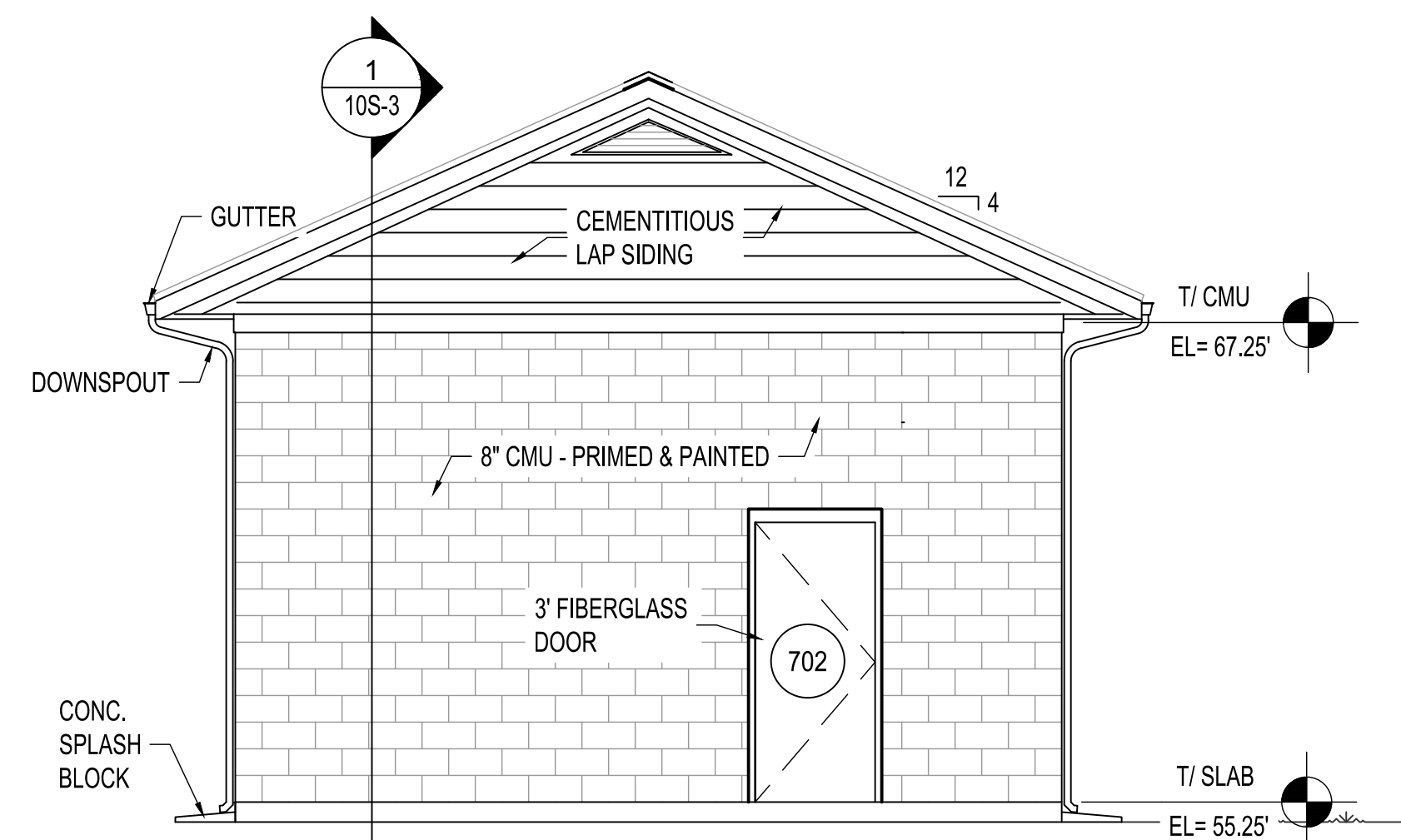
MARK	DATE	BY	DESCRIPTION
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	02-08-2019	85%	SET FOR REVIEW
	06-14-2019	88%	SET FOR REVIEW

DESIGNED: 06/18/2021
FILE NAME: 0618132-US-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 6-14-2019
CHECKED: 06/18/2021
APPROVED: 06/18/2021
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ELECTRICAL BUILDING

NOTES AND PLANS

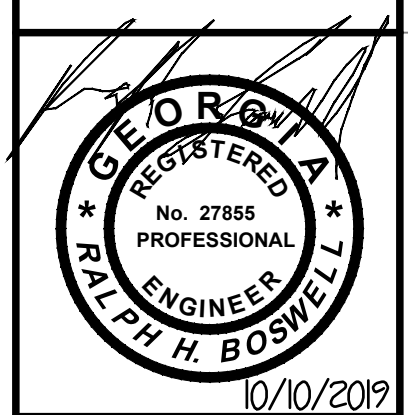
10S-1
SHEET 1 OF 07



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FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

[illegible]

PROJECT NO: OE18132
 FILE NAME: OE18132-TS-CORE
 ORIGINAL DRAWING SIZE: 36"x24"
 DATE: 6-14-2019
 DESIGNED:
 DRAWN:
 CHECKED:
 APPROVED:

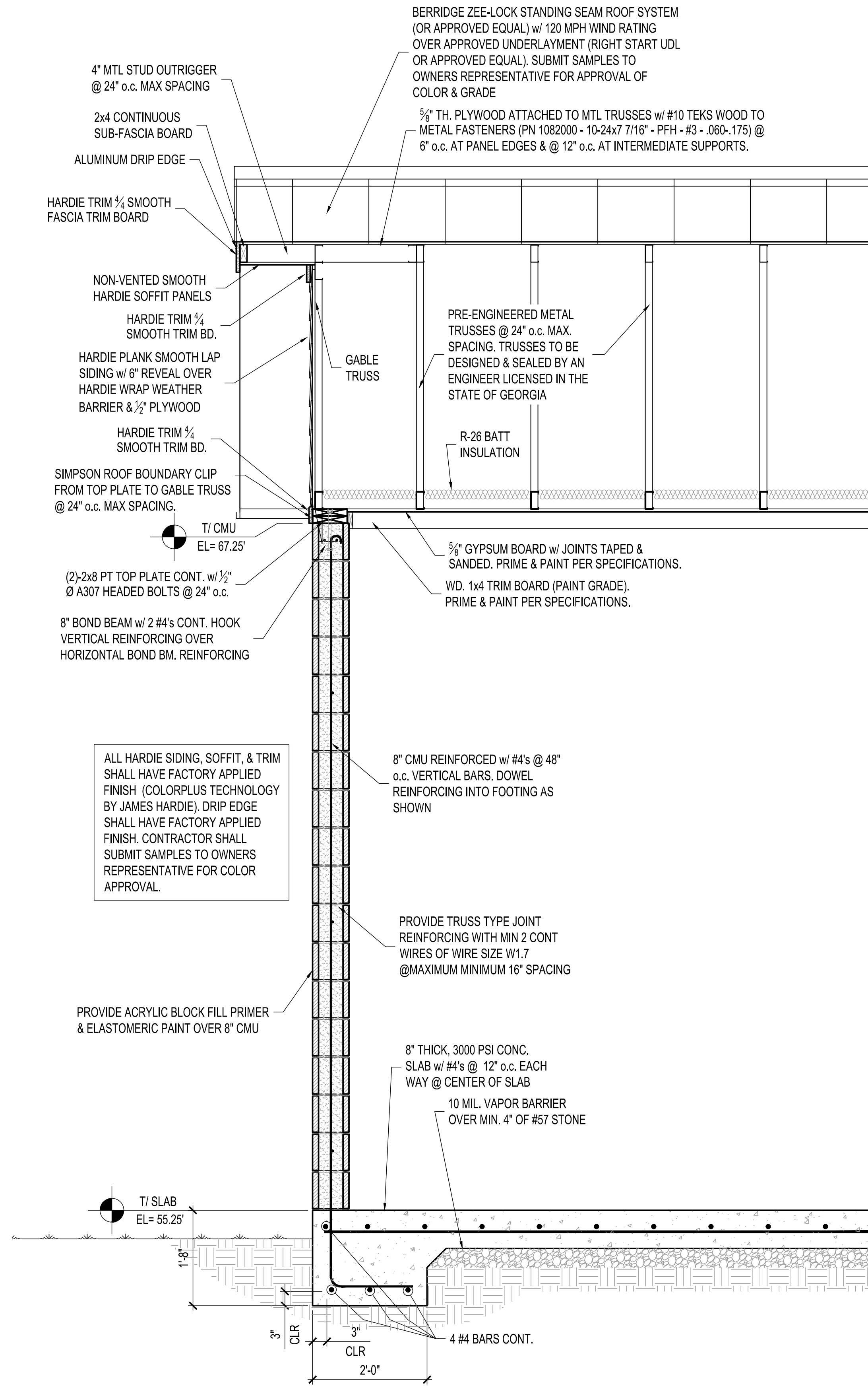
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ELECTRICAL BUILDING

NOTES AND PLANS

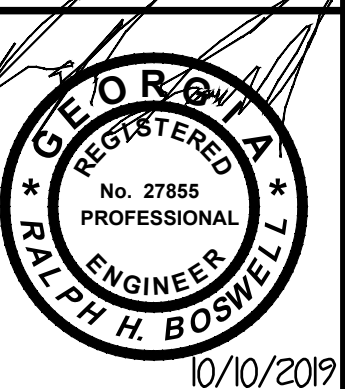
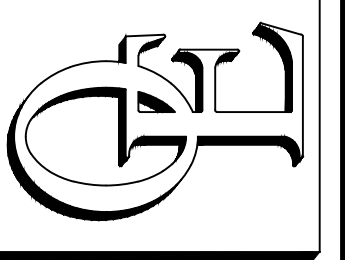
10S-2
SHEET 2 OF 07

NOTES:
1. ALL DIMENSIONS ARE IN FEET AND INCHES.
2. ALL MATERIALS SHALL BE AS SHOWN OR APPROVED BY THE ENGINEER.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS.
4. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ENGINEER.
5. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
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1 SIDE WALL SECTION
3/4"=1'-0"

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FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

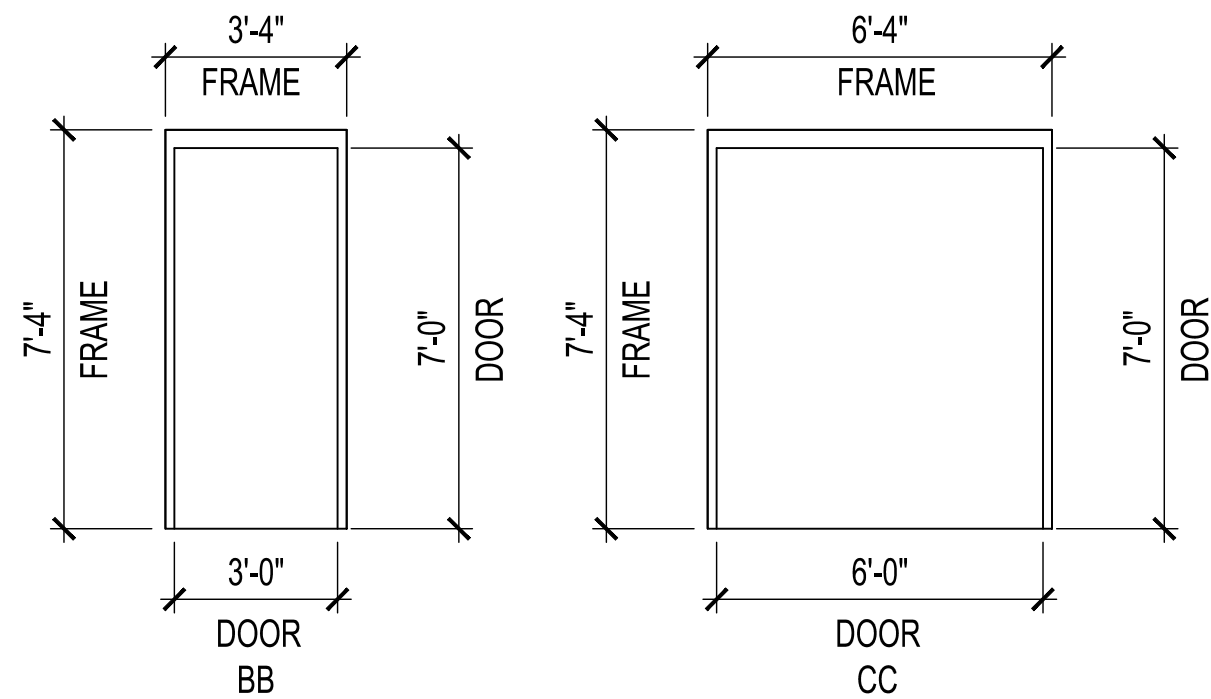
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	02-28-2019	85%	SET FOR REVIEW
	06-14-2019	88%	SET FOR REVIEW

DESIGNED: 06/18/2019
FILE NAME: 0618132-US-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 6-14-2019
CHECKED:
APPROVED:
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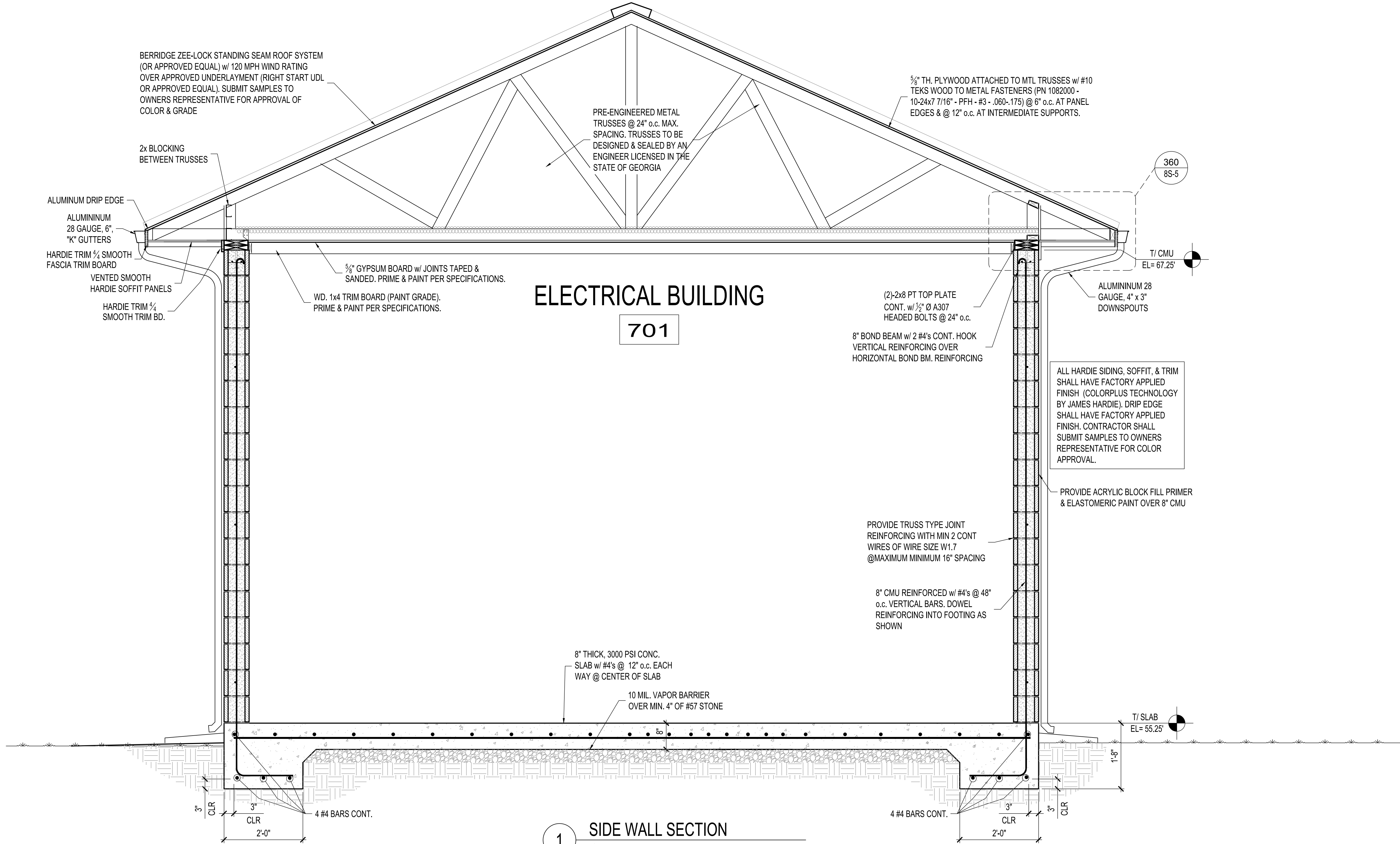
ELECTRICAL BUILDING

NOTES AND PLANS

10S-3
SHEET 3 OF 07



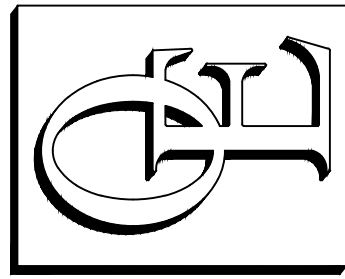
3 DOOR & FRAME ELEVATIONS
N.T.S.



FINISH SCHEDULE								
ROOM NUMBER	FLOORS			WALLS		CEILING		REMARKS
701	SEALED CONCRETE			PAINTED CMU		PAINTED GYP. BOARD		
DOOR SCHEDULE								
DR. #	WIDTH	HEIGHT	THK.	TYPE	MATERIAL	FIRE LABEL	FRAME MTL.	REMARKS
701	6-0	7-0	1 ¾"	CC	FRP		FRP	SEE NOTE FOR MFR.
702	3-0	7-0	1 ¾"	BB	FRP		FRP	SEE NOTE FOR MFR.

NOTE: DOOR #701 & #702 BY CHEM-PRUF DOOR CO. OR APPROVED EQUAL.

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FOLKSTON TREATMENT PLANT
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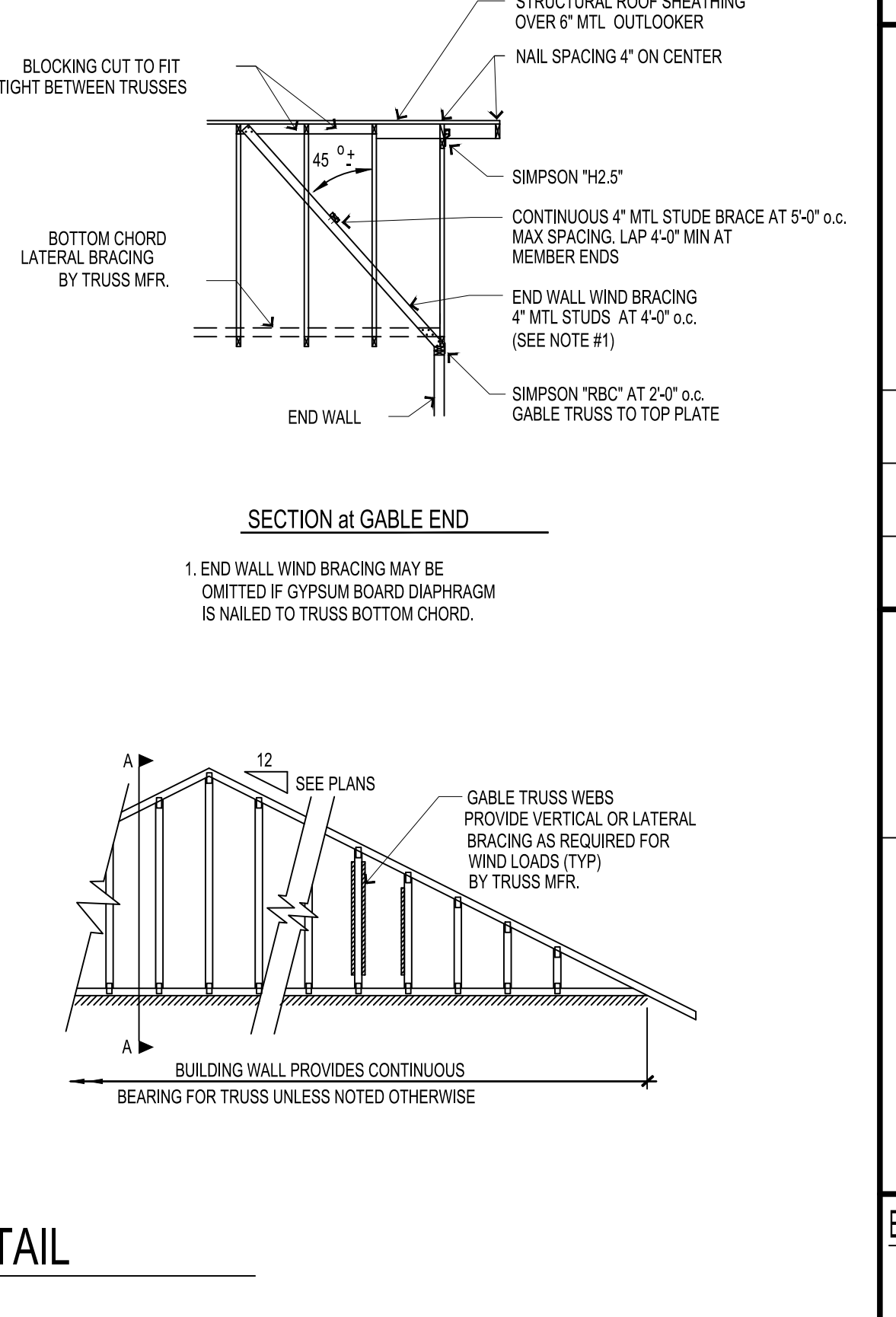
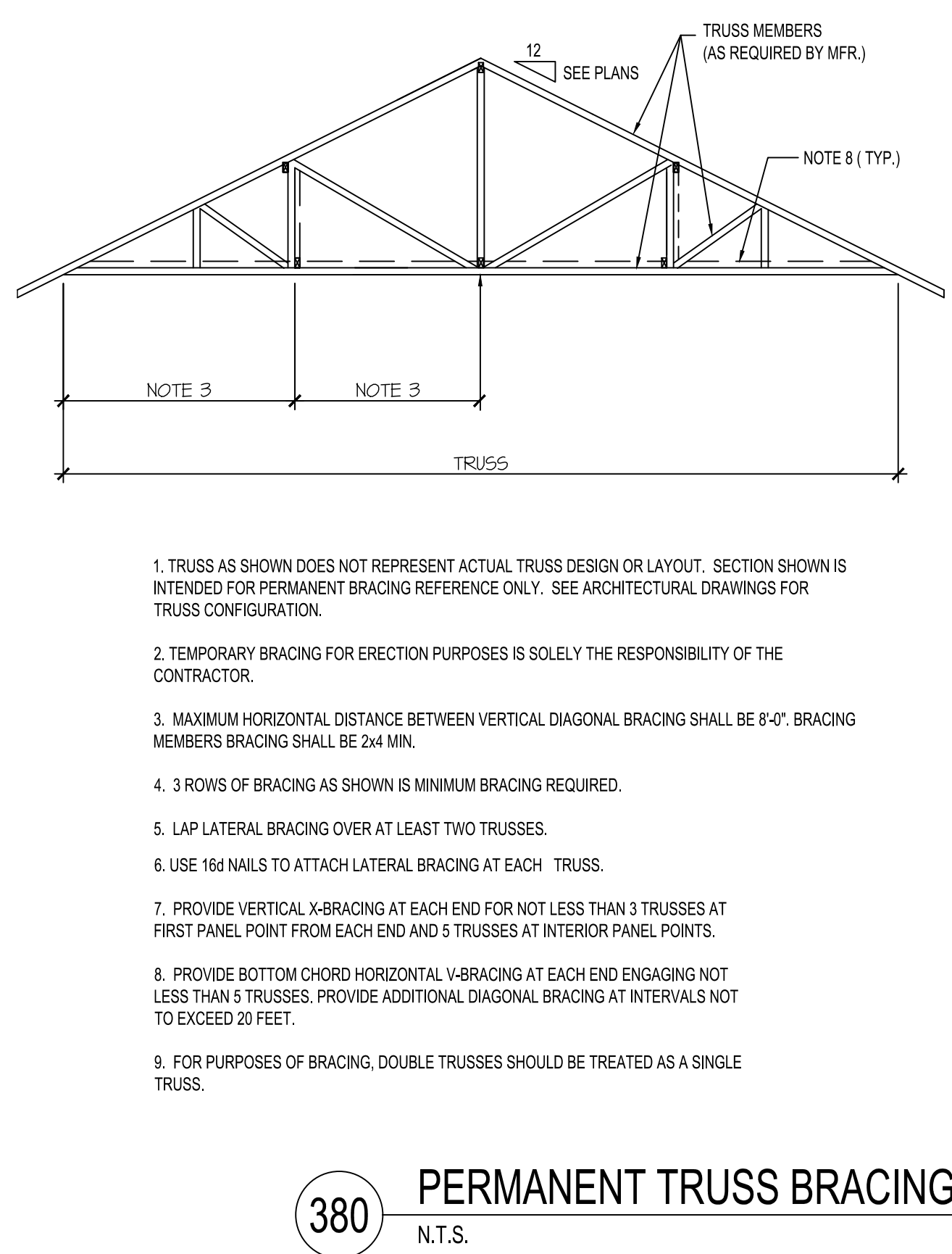
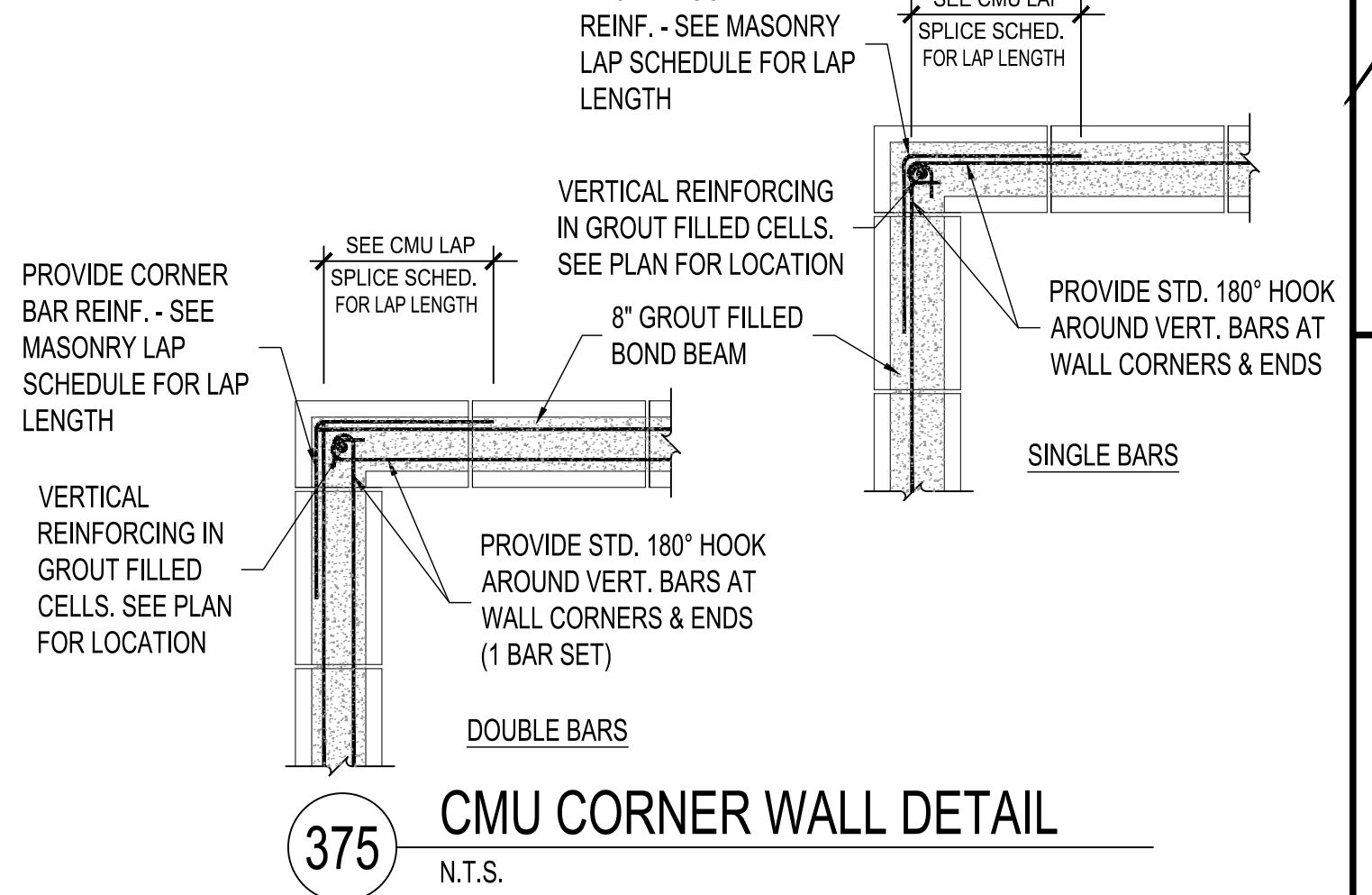
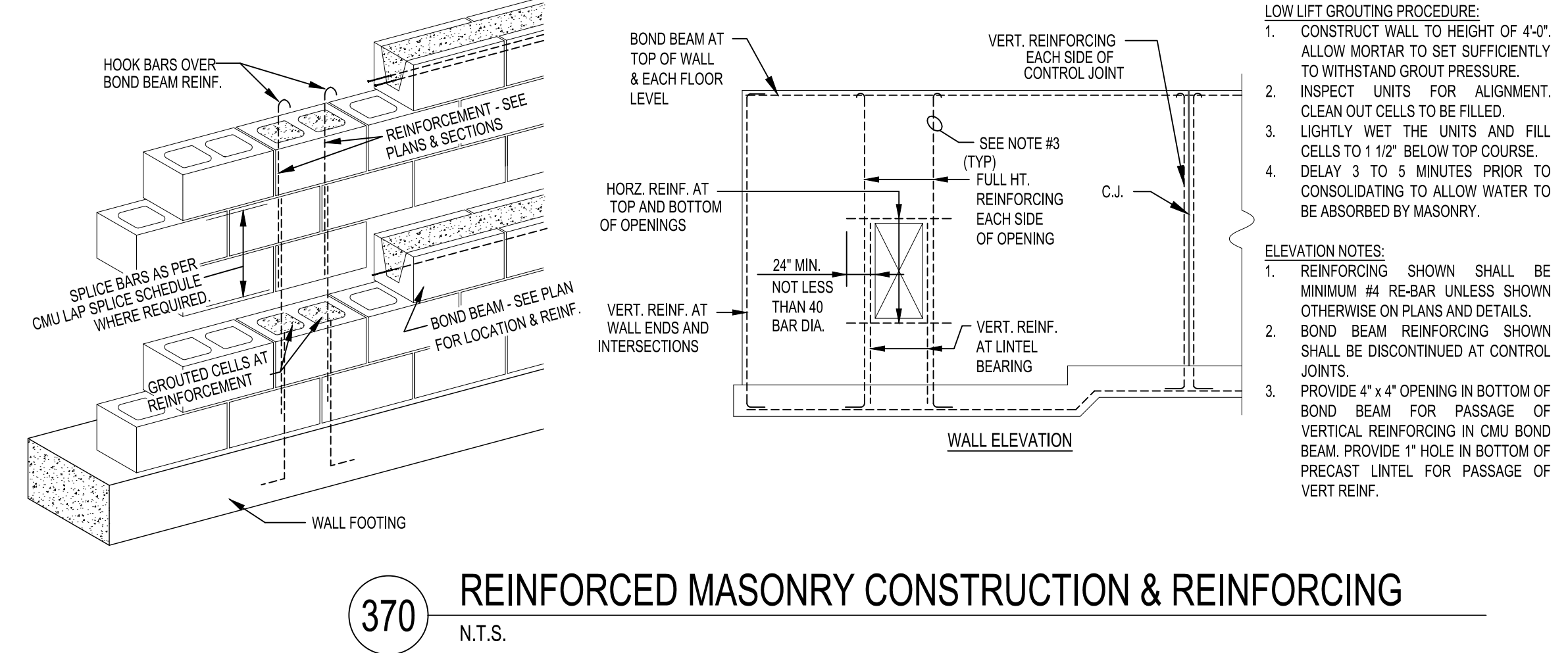
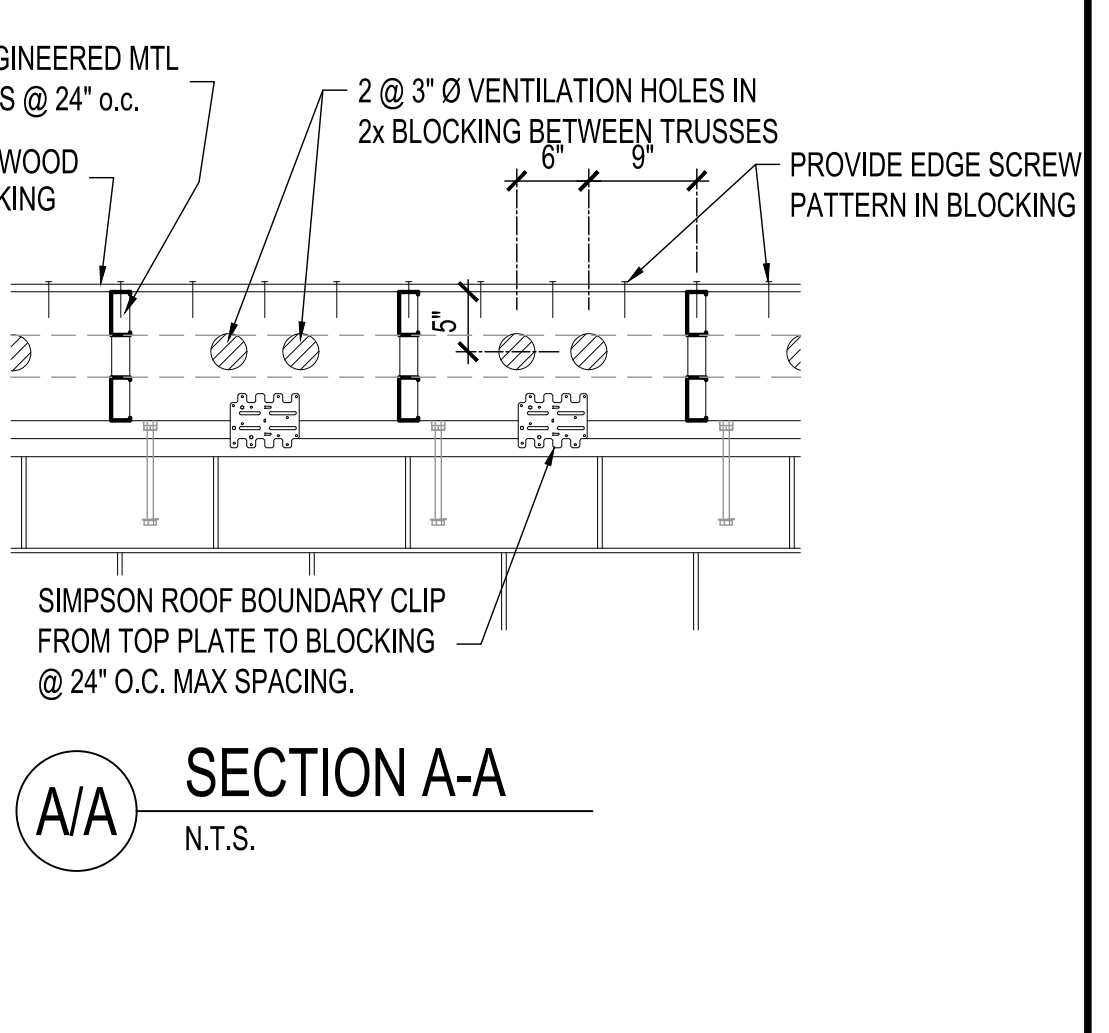
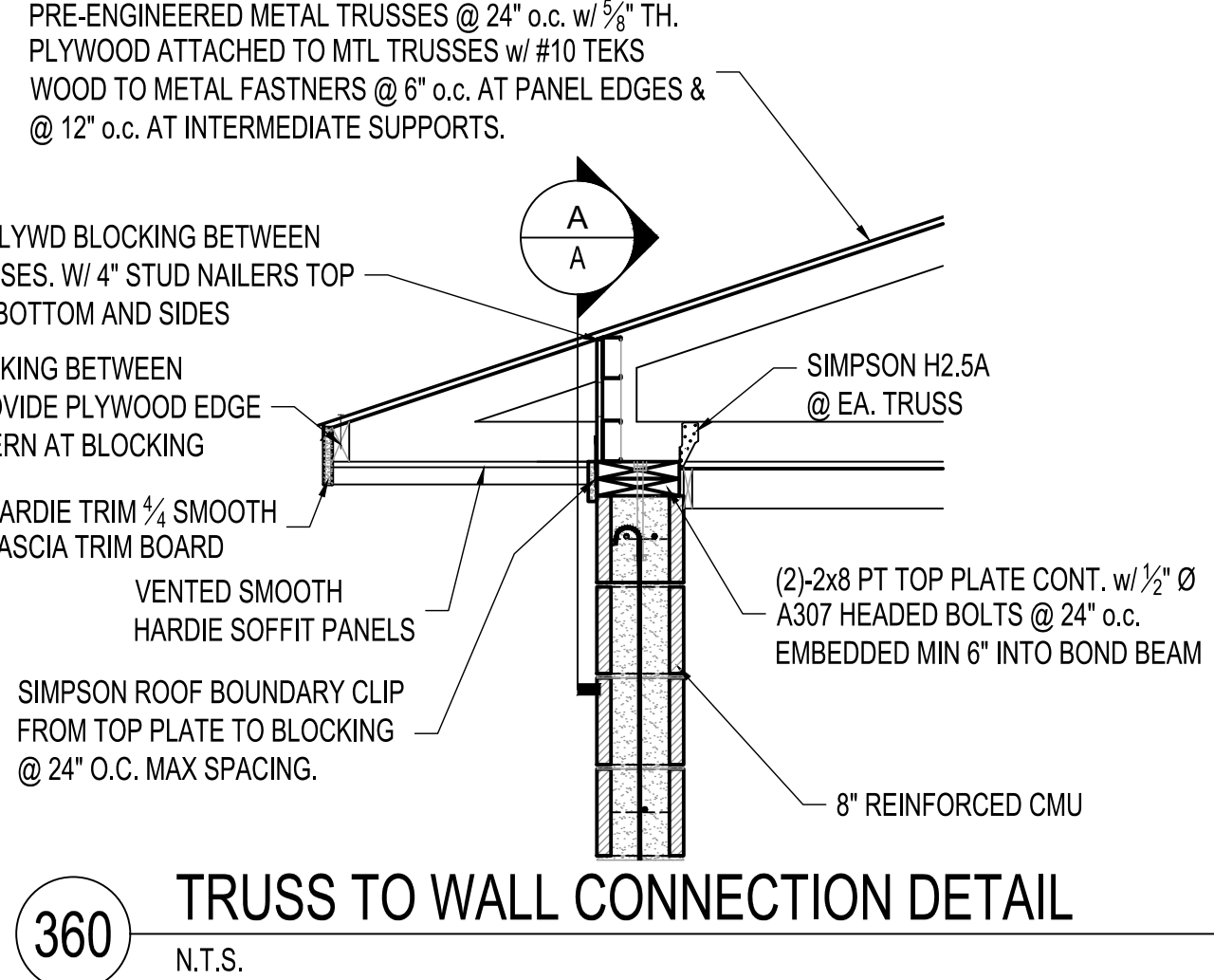
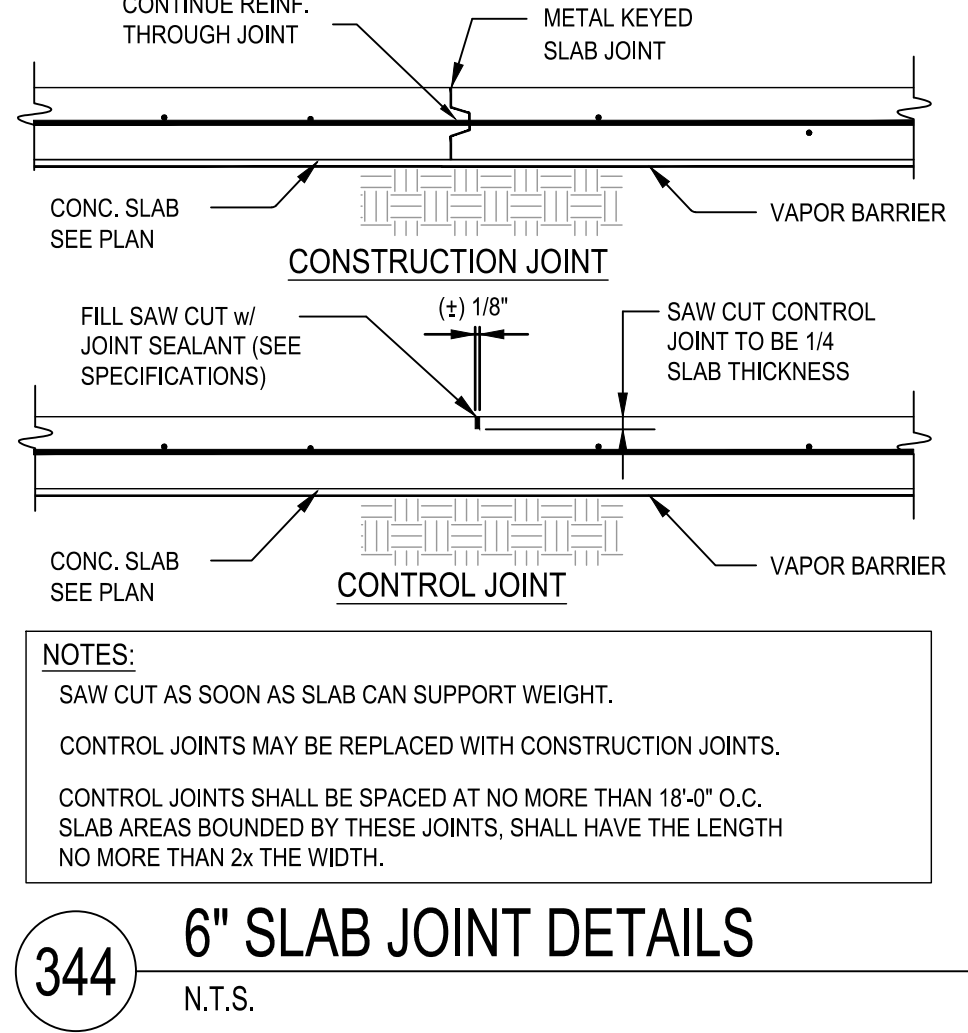
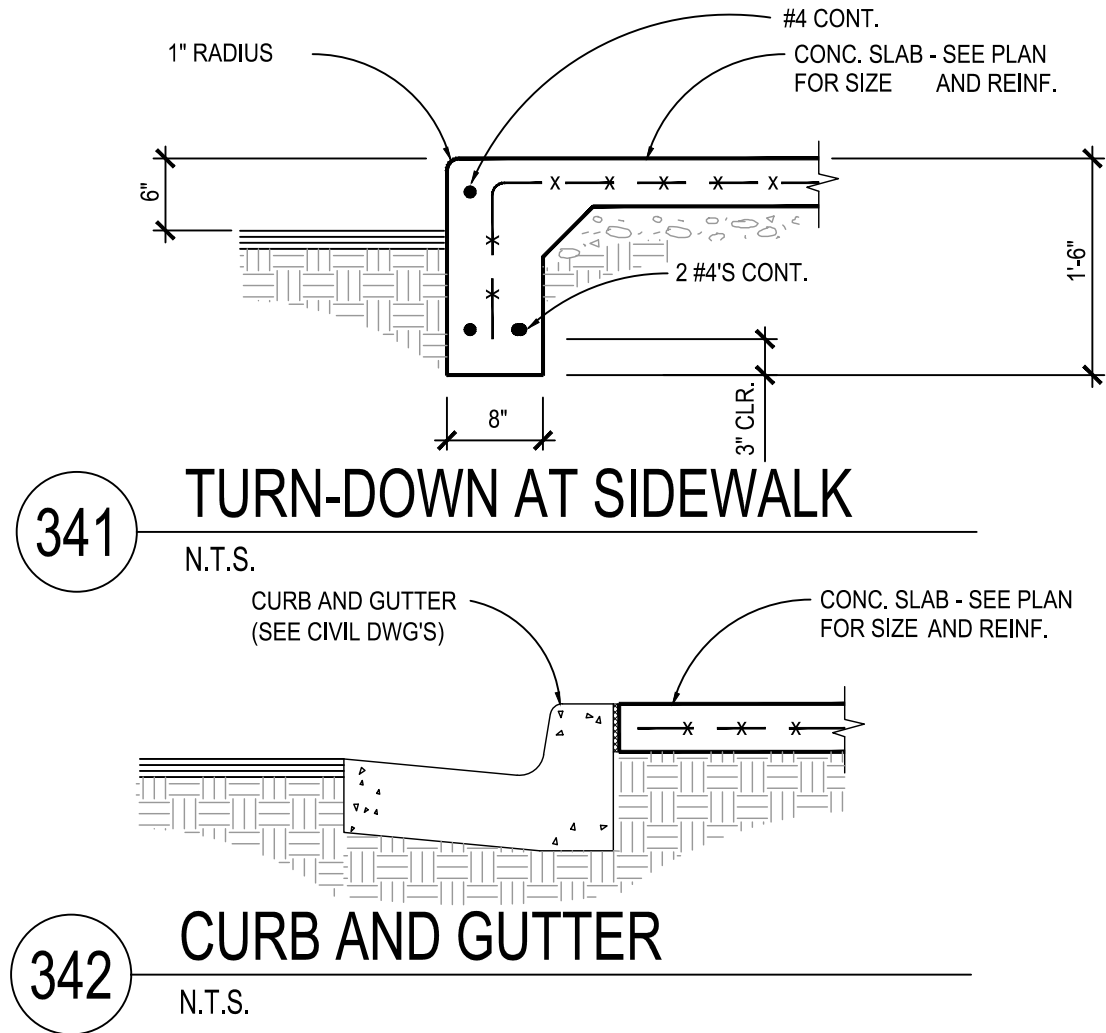
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	07-28-2019	SS	SET FOR REVIEW
	06-14-2019	SS	SET FOR REVIEW

DESIGNED: CE PROJECT NO.: 0618132
DRAWN: FILE NAME: 0618132-US-CORE
CHECKED: ORIGINAL DRAWING SIZE: 36"x24"
APPROVED: DATE: 6-14-2019
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ELECTRICAL BUILDING

NOTES AND PLANS
10S-4
SHEET 4 OF 07

10/10/2019 10:58:52 AM
ASSETS: 0618102-US-CORE
PRINTED BY: RAUPH BOSWELL, DATE: Friday, October 11, 2019 10:58:52 AM | DRAWING FILE: C:\Users\rauph\OneDrive\0618102-US-CORE.dwg | LAST MODIFIED: Friday, October 11, 2019 9:15:03 AM



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REGISTERED PROFESSIONAL ENGINEER
No. 27855
RALPH H. BOSWELL
10/10/2019

FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
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	10-28-2019	85% SET FOR REVIEW	
	10-28-2019	85% SET FOR REVIEW	
	10-28-2019	85% SET FOR REVIEW	

DESIGNED: 0618102
FILE NAME: 0618102-US-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 6-14-2019

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ELECTRICAL BUILDING

NOTES AND PLANS

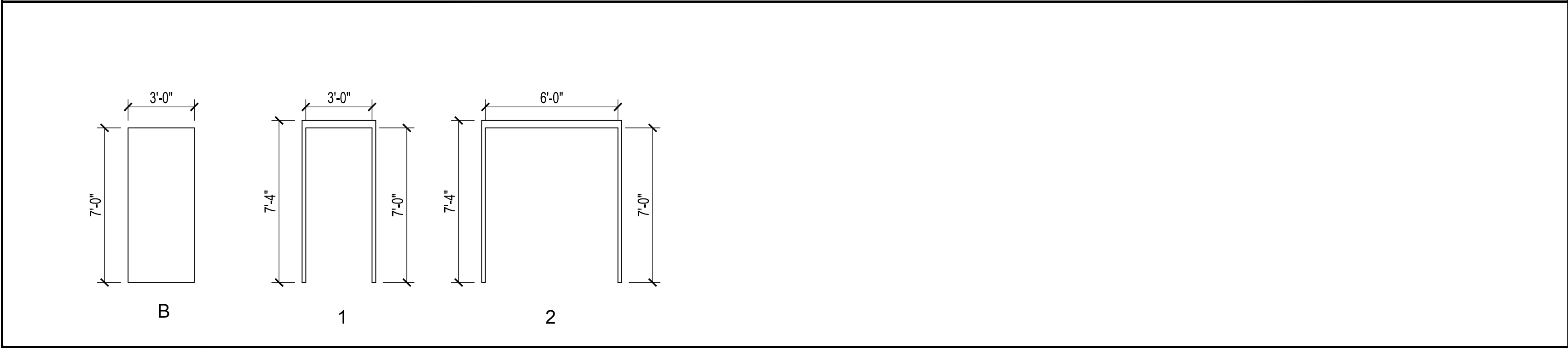
10S-5
SHEET 5 OF 07

DOOR SCHEDULE

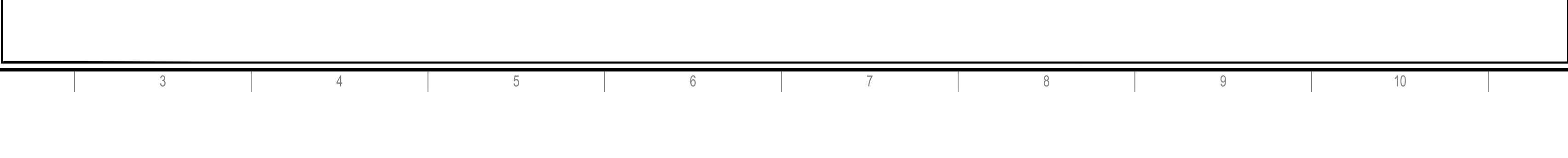
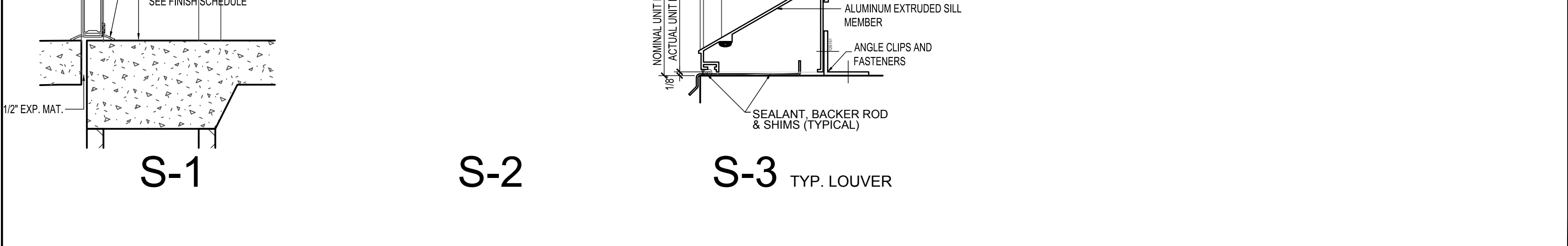
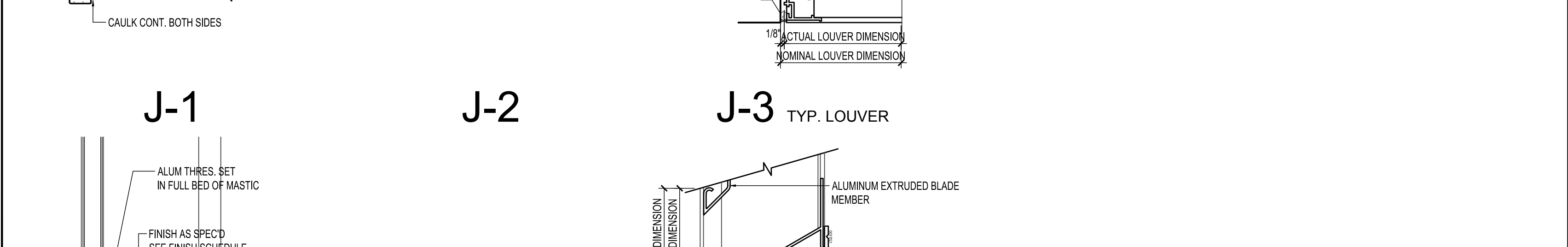
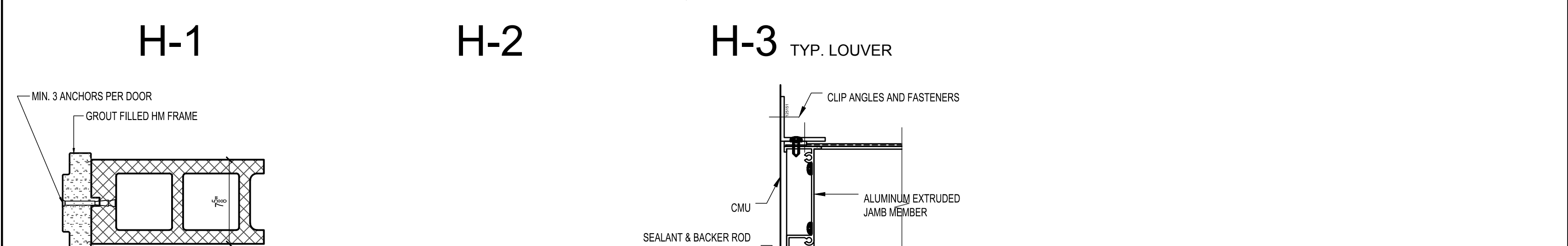
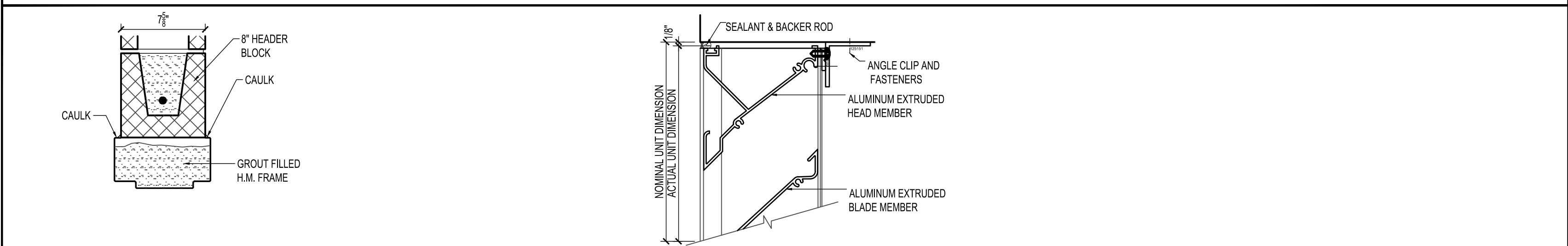
DOOR NUMBER	DOOR LOCATION	DOORS						FRAME							LABEL	HDW. SET (NOTE 1)	REMARKS	DOOR NUMBER
		TYPE	WIDTH	SIZE HEIGHT	THICK	MAT'L	FINISH	SIZE	TYPE	MATERIAL	FINISH	HEAD	JAMB	THR.				
																	601	
701	ELECTRICAL BLDG	B	PR3'-0"	7'-0"	1-3/4"	FIBERGLASS	PAINT	7'-1/4"	2	H.M.	PAINT	1/A-5	2/A-5	---		1	602	
702	ELECTRICAL BLDG	B	3'-0"	7'-0"	1-3/4"	FIBERGLASS	PAINT	7'-1/4"	1	H.M.	PAINT	1/A-5	2/A-5	---	45 MIN	1	603	

<p><u>NOTES:</u></p> <ol style="list-style-type: none"> 1. ALL DOOR HARDWARE SHALL BE OPERABLE LEVER TYPE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.






DOOR AND FRAME TYPES



DOOR AND LOUVER DETAILS



R O O M F I N I S H S C H E D U L E

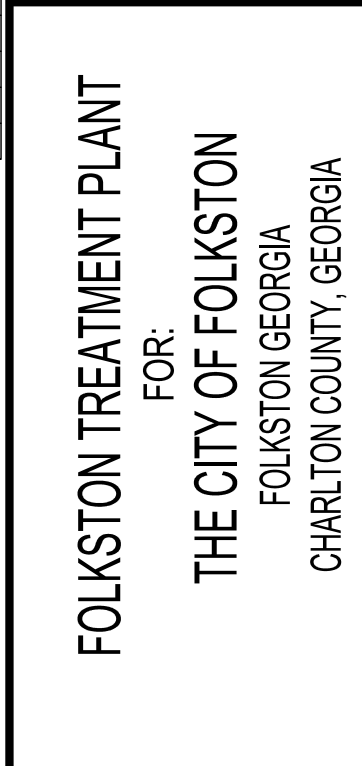
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 -		SEALED CONCRETE				NONE				PAINTED CMU -F1				PAINTED GYPSUM BD				HEIGHT			
NO.	NAME																				
	ELECTRICAL BLDG																	12'	-		

ROOM FINISH NOTES

LIST OF FINISHES

INTERIOR PAINT

ITEM	MANUFACTURER	SPECIFICATION	COLOR NUMBER	COLOR	REMARKS
P-1	SHERWIN WILLIAMS	FLAT	-	BY OWNER	WALL
P-2	SHERWIN WILLIAMS	FLAT	-	BY OWNER	CEILING

[illegible]

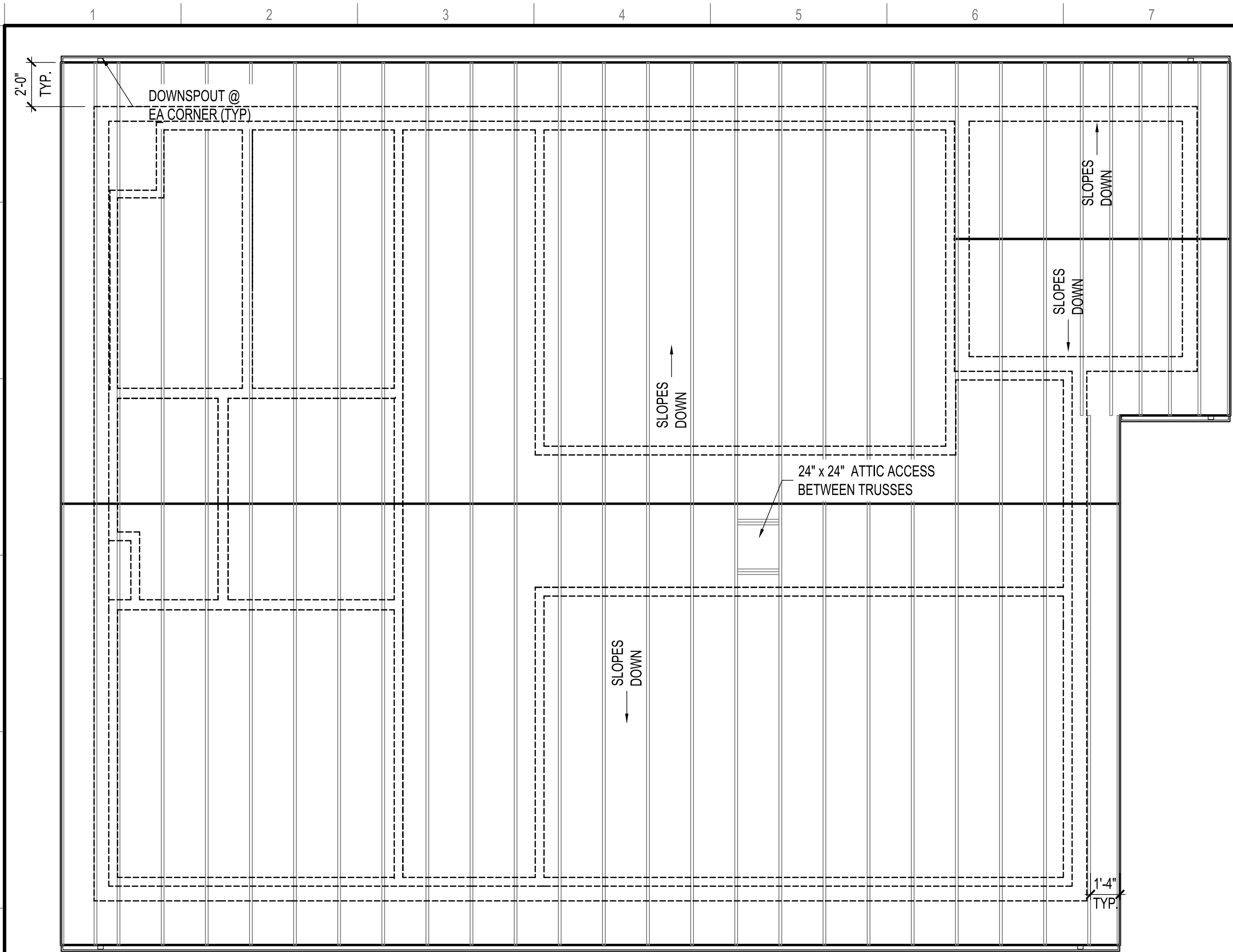
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ELECTRICAL BUILDING

NOTES AND PLANS

10S-6
SHEET 6 OF 07

15/02/2019 15:54:05:30641 15/02/2019 15:54:05:30641
PRINTED BY: RAUL H. BOSWELL DATE: 11/02/2019 11:41 AM DRAWING FILE: C:\Users\Boswell\OneDrive\Documents\115-CORE.dwg (LAST MODIFIED: Friday, October 4, 2019 11:42:21 AM)



2 ROOF FRAMING PLAN
3/8"=1'-0"

STRUCTURE NOTES

- DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BRYNG PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION AND ENGINEER SHALL BE NOTIFIED IF ACTUAL SOIL BEARING PRESSURE IS LOWER THAN DESIGN VALUE. FOUNDATION DESIGN & SUBSURFACE INFORMATION IS BASED ON A SOILS REPORT PREPARED BY TERRACON CONSULTING, INC. (PROJECT# ES165069).
- FLOOR LIVE LOAD = 100 PSF
- PRE-ENGINEERED TRUSS DESIGN LOADS:
TOP CHORD:
DEAD LOAD = 10 PSF + TRUSS WEIGHT
LIVE LOAD = 20 PSF
BOT CHORD:
DEAD LOAD = 5 PSF + TRUSS WEIGHT
LIVE LOAD = 10 PSF (60 PSF @ ACCESS LOCATIONS)
MECH LOAD = 200# CONCENTRATED LOAD @ ANY LOCATION ALONG BOT CHORD
- WIND LOADS:
BASIC WIND SPEED (V, 3 SEC GUST) = 110 MPH
OCCUPANCY CATEGORY = IV
WIND IMPORTANCE FACTOR (I_{wv}) = 1.15
UPWIND EXPOSURE CATEGORY = B
INTERNAL PRESSURE COEFF. (GCF) = ± 0.18
COMPONENTS & CLADDING NET DESIGN PRESSURES (P_{NET} PER ASCE 7-10, METHOD 1)
ROOF COMPONENTS & CLADDING DESIGN PRESSURES:
MAIN ROOF = -55.1 PSF, +13.1 PSF (BASED ON 20 SF AREA)
OVERHANG = -70.8 PSF
WALL COMPONENTS & CLADDING DESIGN PRESSURES = -33.5 PSF, +25.0 PSF (BASED ON 10 SF AREA)
- SEISMIC DESIGN CRITERIA:
OCCUPANCY CATEGORY = IV
SEISMIC IMPORTANCE FACTOR (I_e) = 0.127
 $S_s = 0.127$ $S_1 = 0.067$
SITE CLASS = D
 $S_{D5} = 0.135$ $S_{D1} = 0.107$
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-10 TABLE 12.2-1 OR 12.14-1):
BEARING WALL SYSTEM - LATER MEDIATE REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION FACTOR (R) = 3.5
SEISMIC RESPONSE COEFF. (C_s) = 0.059
SEISMIC DESIGN CATEGORY = C
DESIGN BASE SHEAR = 23.6 K
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

CMU WALL NOTES

- REINF CMU WALLS W/ #4@48"OC UNO.
- ADDITIONAL #4 VERT REINF AT:
 - EACH SIDE OF OPENINGS
 - WALL INTERSECTIONS
 - ENDS OF WALLS
 - AS NOTED & DETAILED ON DRAWINGS
- PROVIDE BOND BEAMS REINF W/ (2)-#4 CONT AT:
 - T&B OF OPENINGS
 - TRUSS BEARING (CONT)
 - TOP COURSE OF MASONRY WALLS
 - AS NOTED & DETAILED ON DRAWINGS
- PROVIDE MATCHING DOWELS FOR VERT REINF INTO FOUNDATION AND BOND BEAM @ TOP.
- FILL ALL CMU CELLS BELOW FINISHED FLOOR & BELOW GRADE. FILL MATERIAL SHALL BE 3000 PSI GROUT, MIN.

WOOD FRAMING NOTES

- SEE PRE-ENGINEERED METAL TRUSS NOTES FOR ROOF TRUSSES.
- ROOF SHEATHING SHALL BE $\frac{5}{8}$ " APA RATED SHEATHING W/ #10 TEK'S SCREWS @6"OC @ PANEL EDGES & @12"OC @ INTERMEDIATE SUPPORTS.

FOUNDATION NOTES

- STEP FOOTINGS DOWN BELOW MECHANICAL, ELECTRICAL, OR PLUMBING LINES AS REQUIRED TO AVOID INTERFERENCE. SEE TYP FOOTING STEP DETAIL. COORDINATE W/ OTHER TRADES. PROVIDE PIPE SLEEVE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL.
- WHERE UTILITY LINES PASS UNDER A FOOTING, PROVIDE RELIEVING ARCH FOR PROTECTION.

CONC SLAB NOTES

- SIDEWALK SLABS SHALL BE 3000 PSI, 4" THICK CONC REINF W/ 6x6-W1.4xW1.4 WWF @ CENTER OF SLAB. FLOOR SLAB SHALL BE 3000 PSI, 8" THICK CONC. REINFORCED W/#4'S @12" o.c. EA WAY CTR. OF SLAB. SEE PLAN FOR FINISHED FLOOR ELEVATIONS. (REFER TO CIVIL DRAWINGS FOR SIDEWALK LOCATIONS & DETAILS).
- PROVIDE 4" THICK NO. 57 STONE GRANULAR BASE & VAPOR BARRIER UNDER INTERIOR FLOOR SLAB.
- CONDUITS & PIPES EMBEDDED IN SLABS:
 - SHALL NOT BE LARGER IN OUTSIDE DIM THAN $\frac{1}{2}$ THE OVERALL THICKNESS OF SLAB.
 - SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
 - MIN SLAB THICKNESS OF 2 $\frac{1}{2}$ " MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.

CONC REINF LAP LENGTH 3000 PSI (ACI 318-11)			
BAR SIZE		TENSION SPLICE	
		CLASS 'B'	
#3		22"	
#4		29"	
#5		36"	
#6		43"	
#7		63"	
#8		72"	
#9		81"	

CMU REINF LAP LENGTH Fy=60 KSI, fm=1500 PSI		
BAR SIZE	SPLICE LENGTH	
#3	19"	
#4	25"	
#5	31"	
#6	57"	
#7	70"	
#8	98"	

MASONRY LINTEL SCHEDULE			
MINIMUM	MAXIMUM	8" CMU	
		8"	16"
3'-4"	5'-4"	2 - #4	2 - #4
3'-4"	5'-4"	2 - #5	2 - #5
5'-4"	7'-4"	2 - #6	2 - #5
7'-4"	10'-0"		2 - #6

1. EXTEND BOND BEAM REINFORCING 24" OR 40 BAR DIAMETERS (WHICHEVER IS GREATER) BEYOND THE EXTENTS OF THE OPENING. VERTICAL REINFORCING AT THE SIDES OF THE OPENING SHALL BE CONTINUOUS THROUGH THE BOND BEAM. PROVIDE KNOCK OUTS IN THE BOTTOM OF THE BOND BEAM BLOCK AS REQUIRED TO ALLOW REINFORCING TO PASS THROUGH.

2. SEE DETAILS 373 & 374 FOR ADDITIONAL REINFORCING AT OPENINGS.

LIFE SAFETY NOTES

- EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. MAIN EXIT DOORS TO BE PROVIDED WITH A READILY VISIBLE, DURABLE SIGN ON OR ADJACENT TO THE DOOR STATING, "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS." IBC 1008.1.9 AND IBC 1008.1.9.3
- THE PATH OF TRAVEL TO EXITS IN A BUILDING SHALL BE IDENTIFIED BY EXIT SIGNS COMPLYING WITH SECTION 1011. EXIT SIGNS SHALL BE READILY VISIBLE FROM ANY DIRECTION OF APPROACH. EXIT SIGNS SHALL BE LOCATED AS NECESSARY TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL. NO POINT SHALL BE MORE THAN 100 FEET FROM THE NEAREST VISIBLE EXIT SIGN.
- EXIT SIGN CURRENT POWER SUPPLY TO ONE OF THE LAMPS SHALL BE PROVIDED BY THE PREMISES' WIRING SYSTEM; POWER SUPPLY TO THE LAMP SHALL BE FROM STORAGE BATTERIES OR AN ON-SITE GENERATOR. IN THE EVENT OF A POWER FAILURE, ILLUMINATION SHALL AUTOMATICALLY BE PROVIDED BY AN EMERGENCY SYSTEM FOR A DURATION OF 90 MIN. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- EACH EXIT ACCESS FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE".
- TACTILE (RAISED CHARACTERS AND BRAILLE) EXIT SIGNS ARE PLACED ON THE WALL ADJACENT TO THE LATCH SIDE AT 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN.
- PANIC HARDWARE NEEDS TO BE ON FRONT DOOR OR IF DOUBLE DOORS, BOTH DOORS NEED TO BE UNLOCKED DURING BUSINESS HOURS.
- THE EXITS MUST BE CLEARLY MARKED AND ALSO ILLUMINATED NOT LESS THAN ONE FOOT CANDLE AT FLOOR LEVEL.

LIFE SAFETY CALC'S

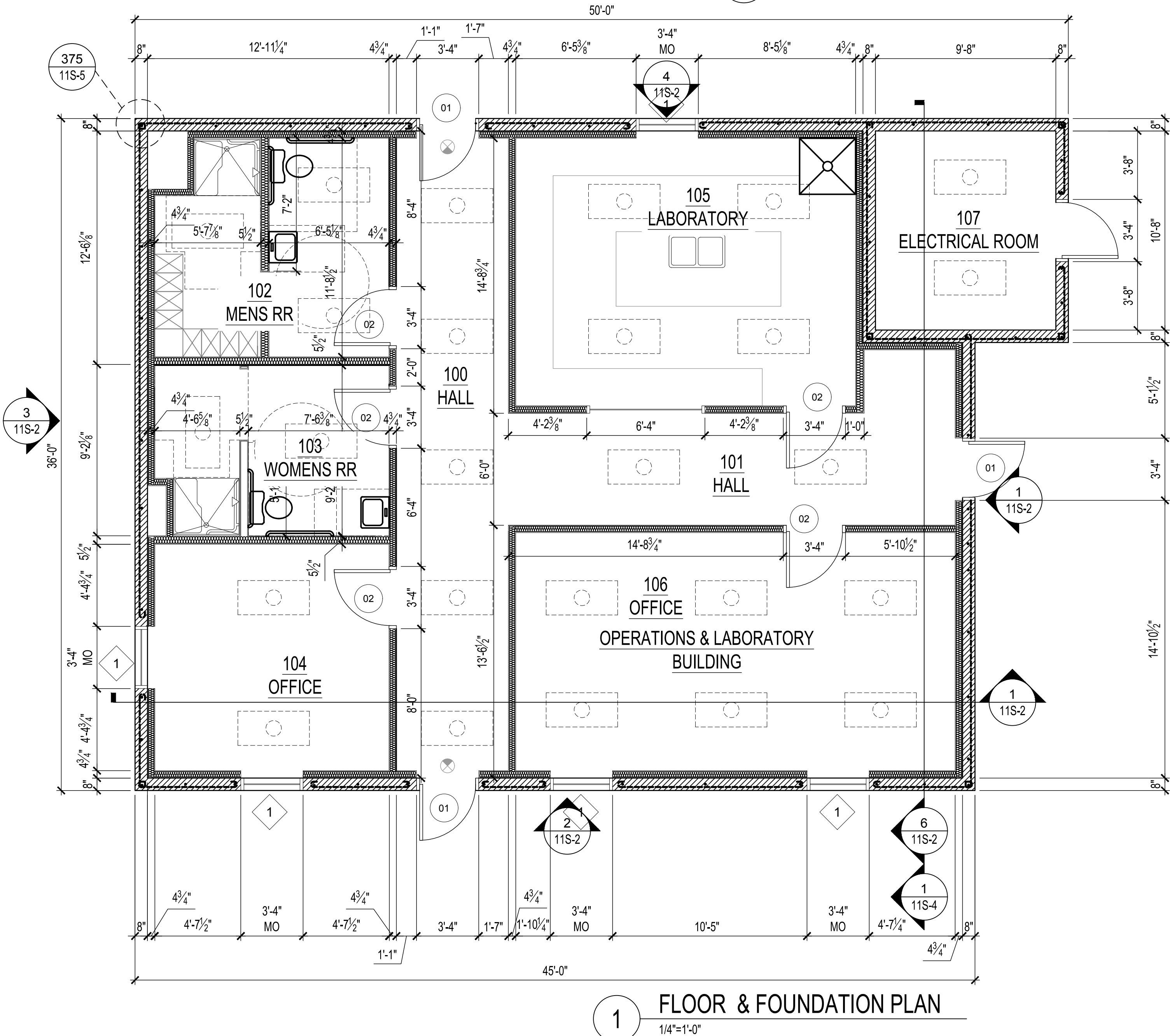
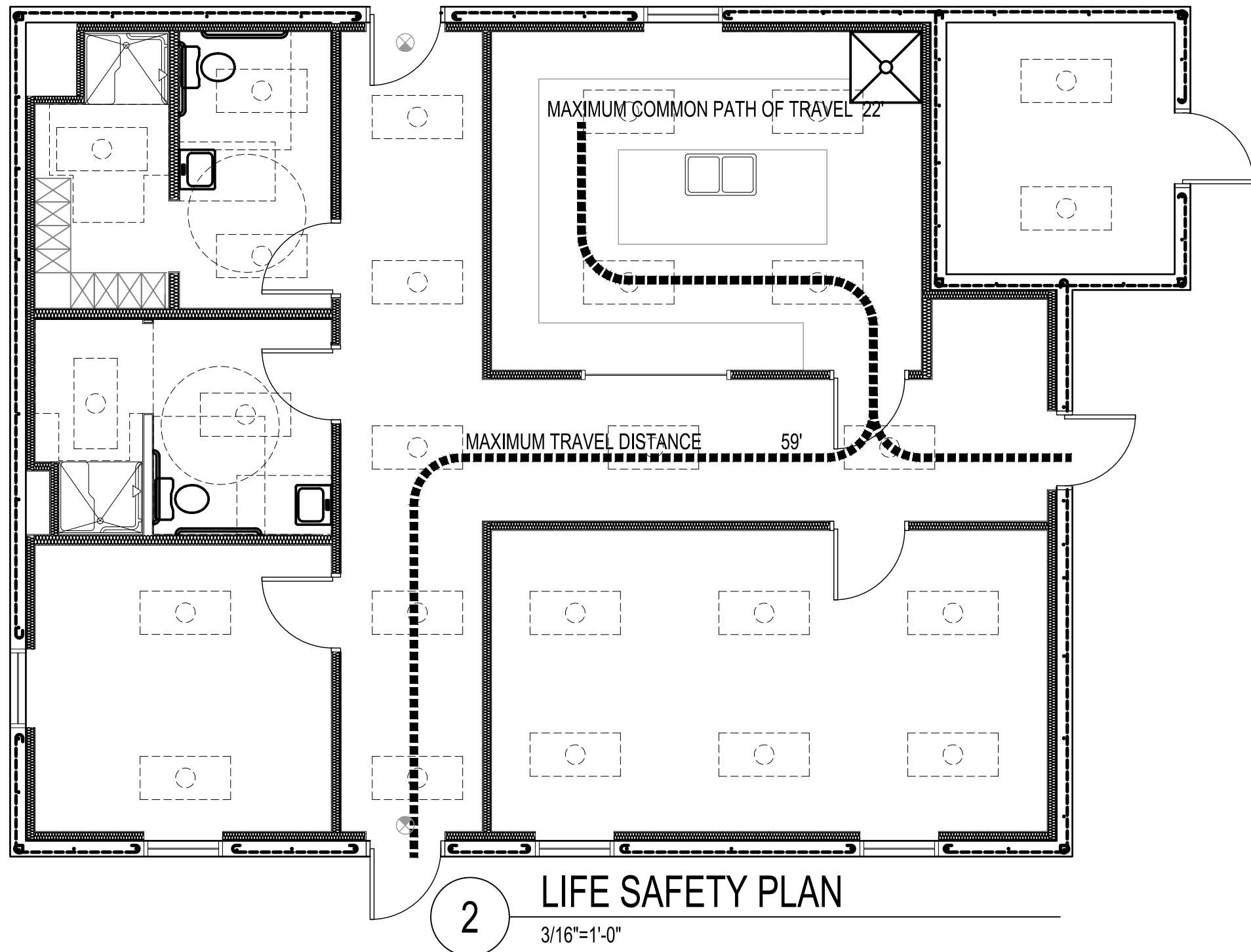
BUILDING TYPE BUSINESS
CONSTRUCTION TYPE V-B
FIRST FLOOR 1680 SF
TOTAL 1680 SF

OCCUPANCY CALCULATIONS
FIRST FLOOR 1/100 1680 SF 17 OC
TOTAL 17 OC

MAXIMUM TRAVEL DISTANCE 59'
MAXIMUM COMMON PATH OF TRAVEL 22'

LIFE SAFETY LEDGEND

MEANS OF EGRESS COMPONENT TAG	
COMPONENT-DOOR	NUMBER OF OCCUPANTS SERVED BY COMPONENT
OCCUPANTS: 25	MEANS OF EGRESS COMPONENT
REQUIRED WIDTH: 5'	WIDTH REQUIRED PER OCCUPANT
UNITS: 0.2	PROVIDED WIDTH: 34"
PROVIDED COMPONENT WIDTH	REQUIRED WIDTH



1 FLOOR & FOUNDATION PLAN
1/4"=1'-0"

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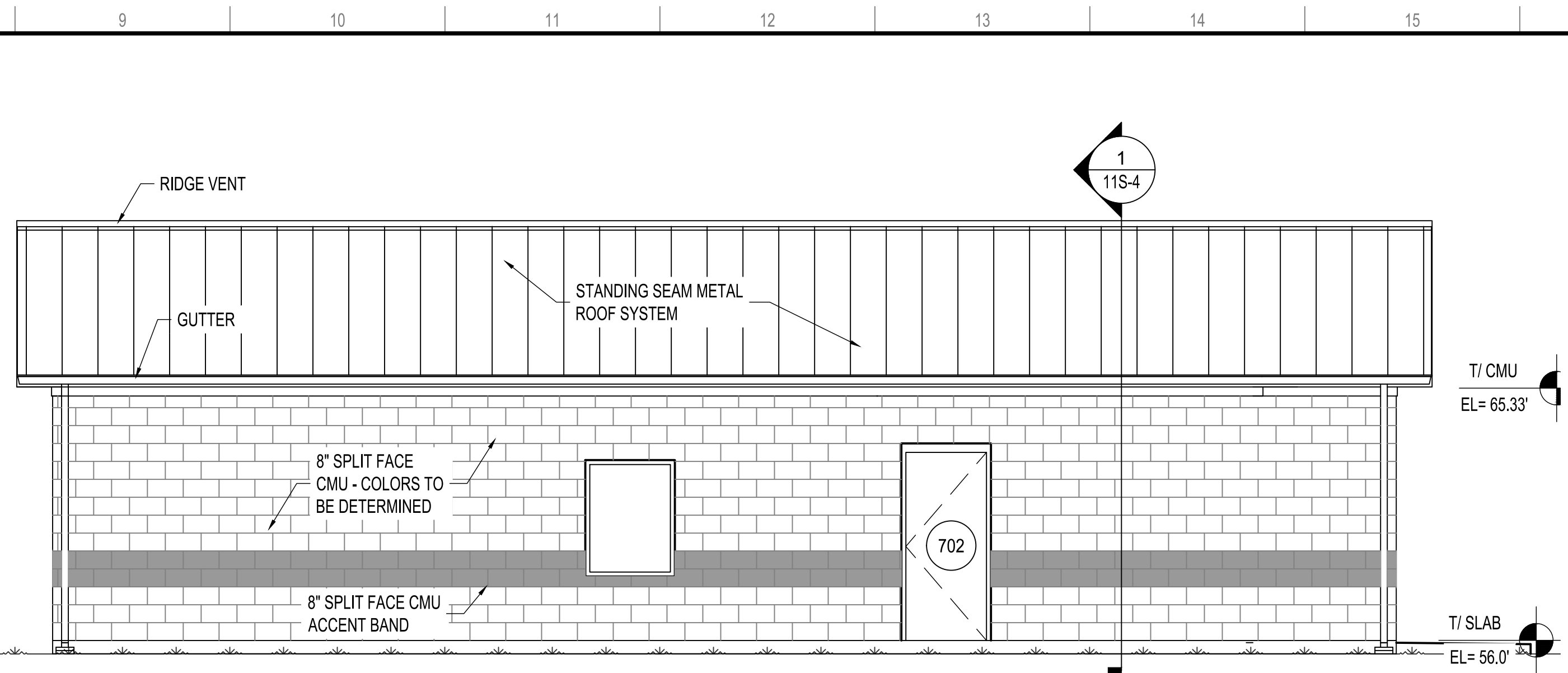
GEORGIA
REGISTERED
PROFESSIONAL
ENGINEER
RALPH H. BOSWELL
10/10/2019

FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON GEORGIA
CHARLTON COUNTY, GEORGIA

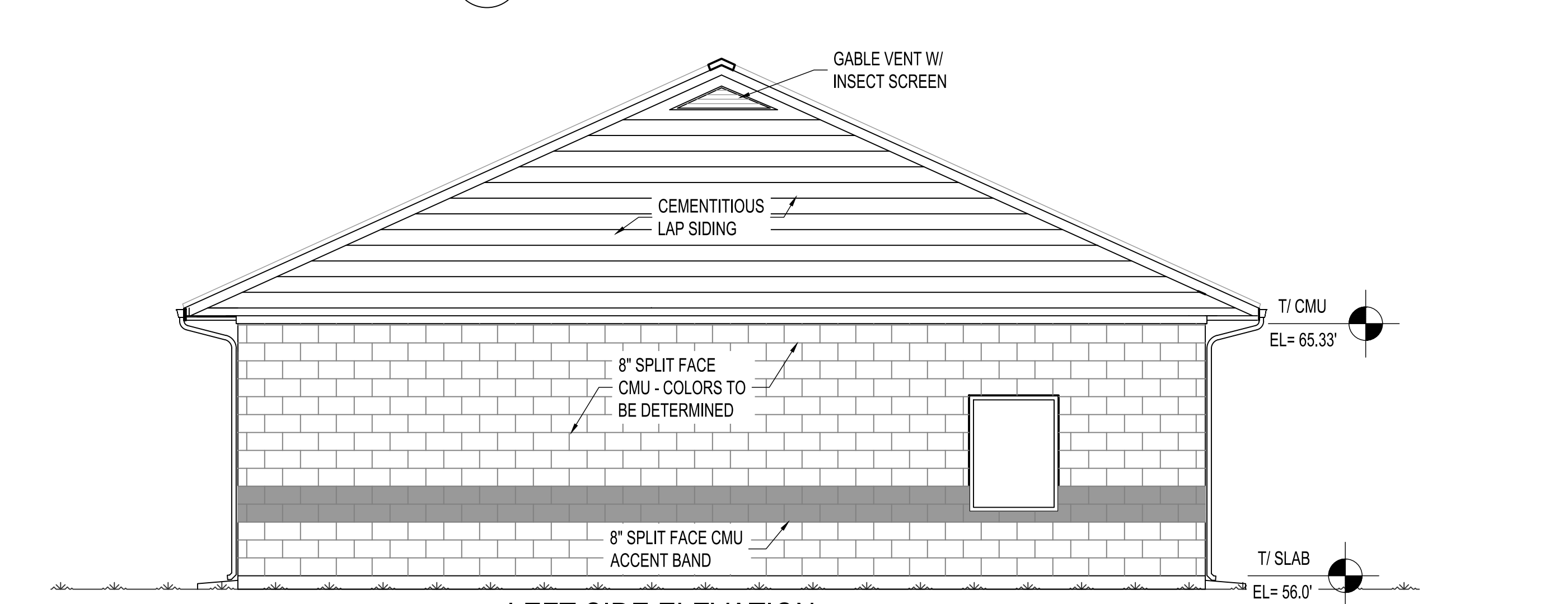
MARK	DATE	BY	DESCRIPTION
	10-10-2019		EPD SUBMITTAL
	02-08-2019		85% SET FOR REVIEW
	6-14-2019		85% SET FOR REVIEW

DESIGNED: 06/18/202	DRAWN: 06/18/202	CHECKED: 06/18/202	APPROVED: 06/18/202
FILE NAME: 06/18/202-115-CORE	ORIGINAL DRAWING SIZE: 36"x24"	DATE: 6-14-2019	
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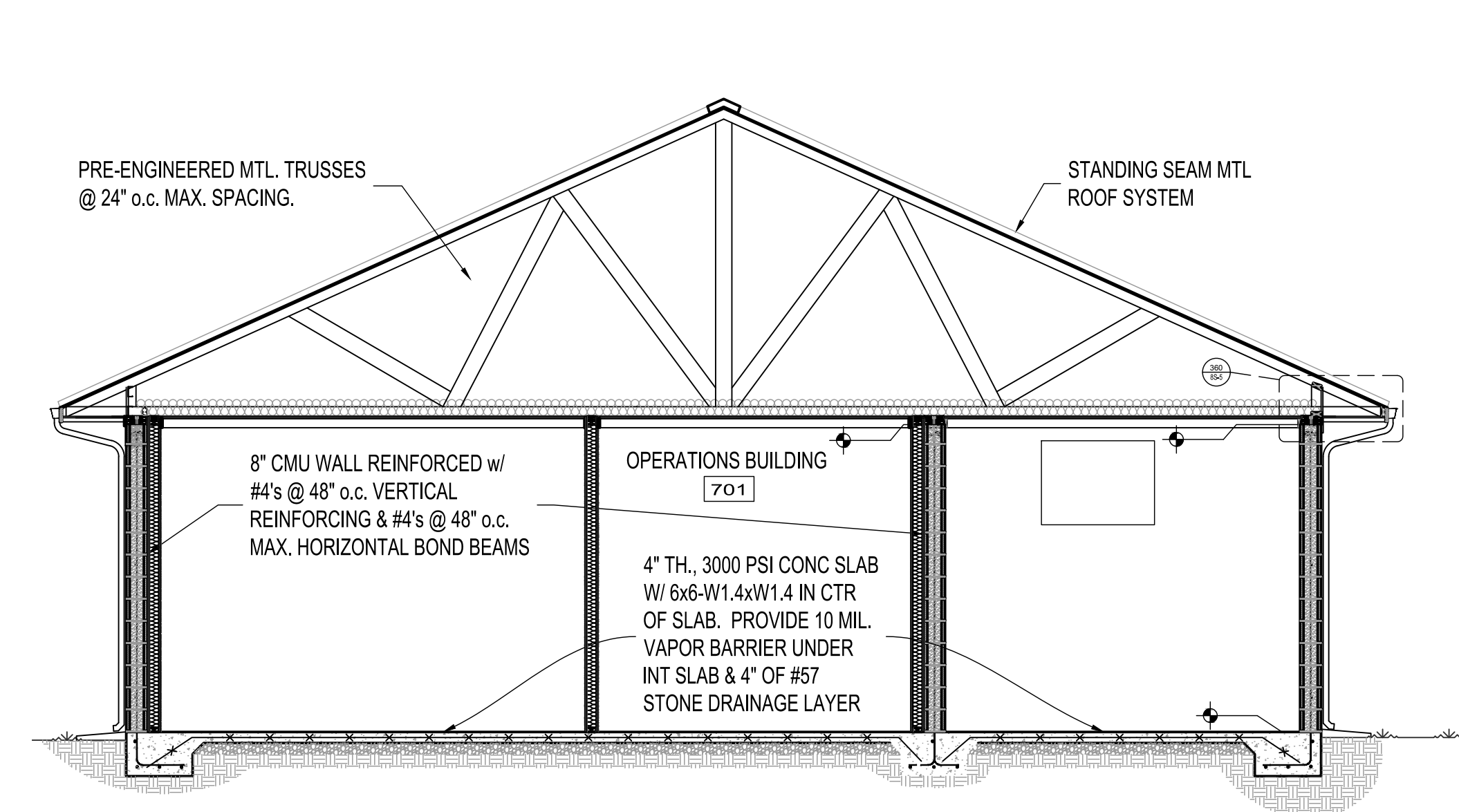
OPERATIONS BUILDING
NOTES AND PLANS
11S-1
SHEET 1 OF 07



3 REAR ELEVATION

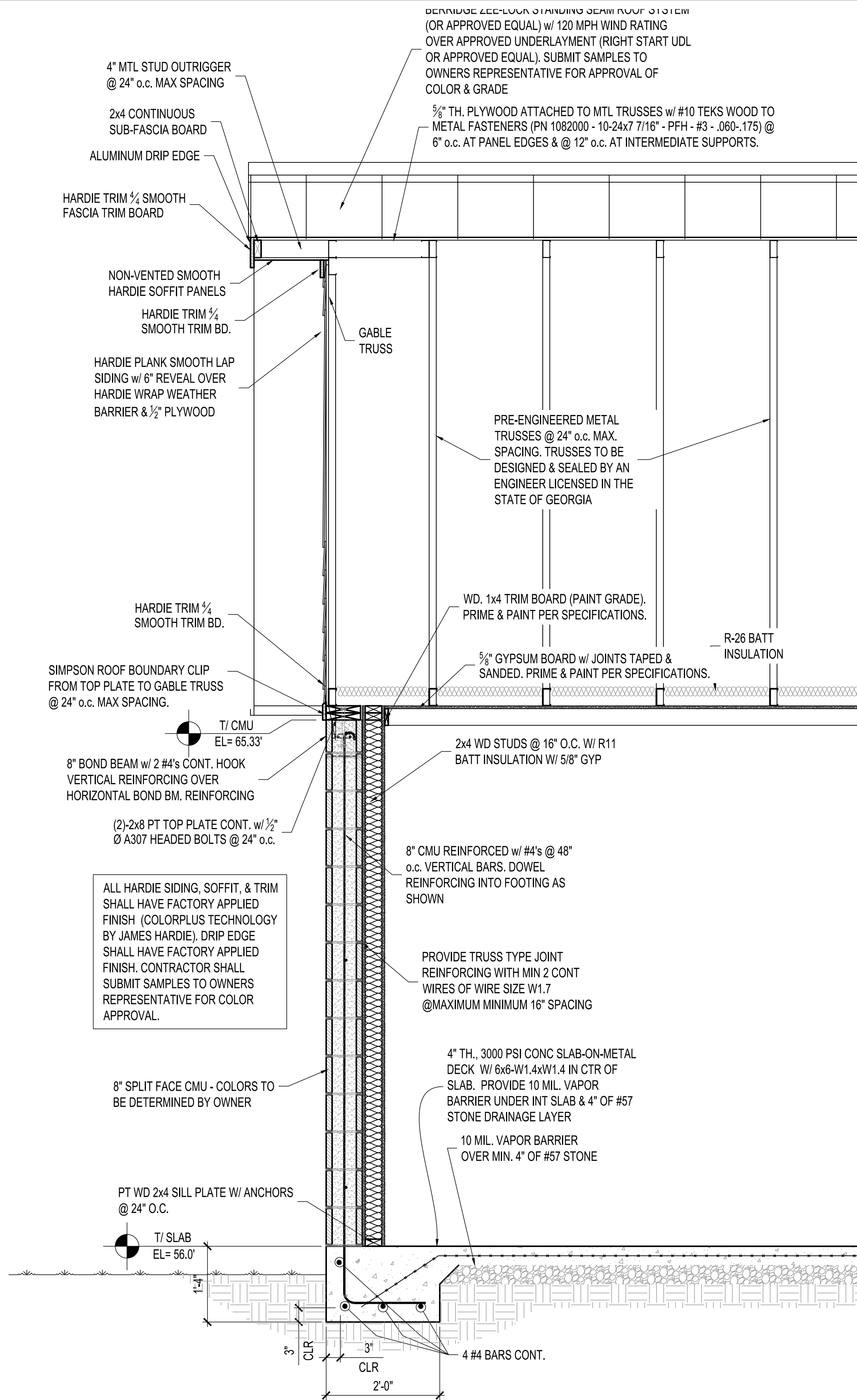


4 LEFT SIDE ELEVATION
1/4"=1'-0"



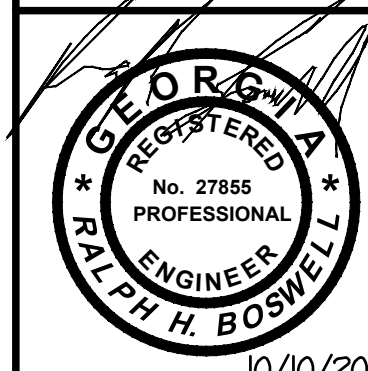
6 TRANSVERSE BUILDING SECTION
1/4"=1'-0"

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PLOTTER: PLOTTER11S-CORE.dwg (Last Modified: Friday, October 4, 2019 11:02:27 AM)
PLOTTER: PLOTTER11S-CORE.dwg (Last Modified: Friday, October 4, 2019 11:02:27 AM)



1 SIDE WALL SECTION
3/4"=1'-0"

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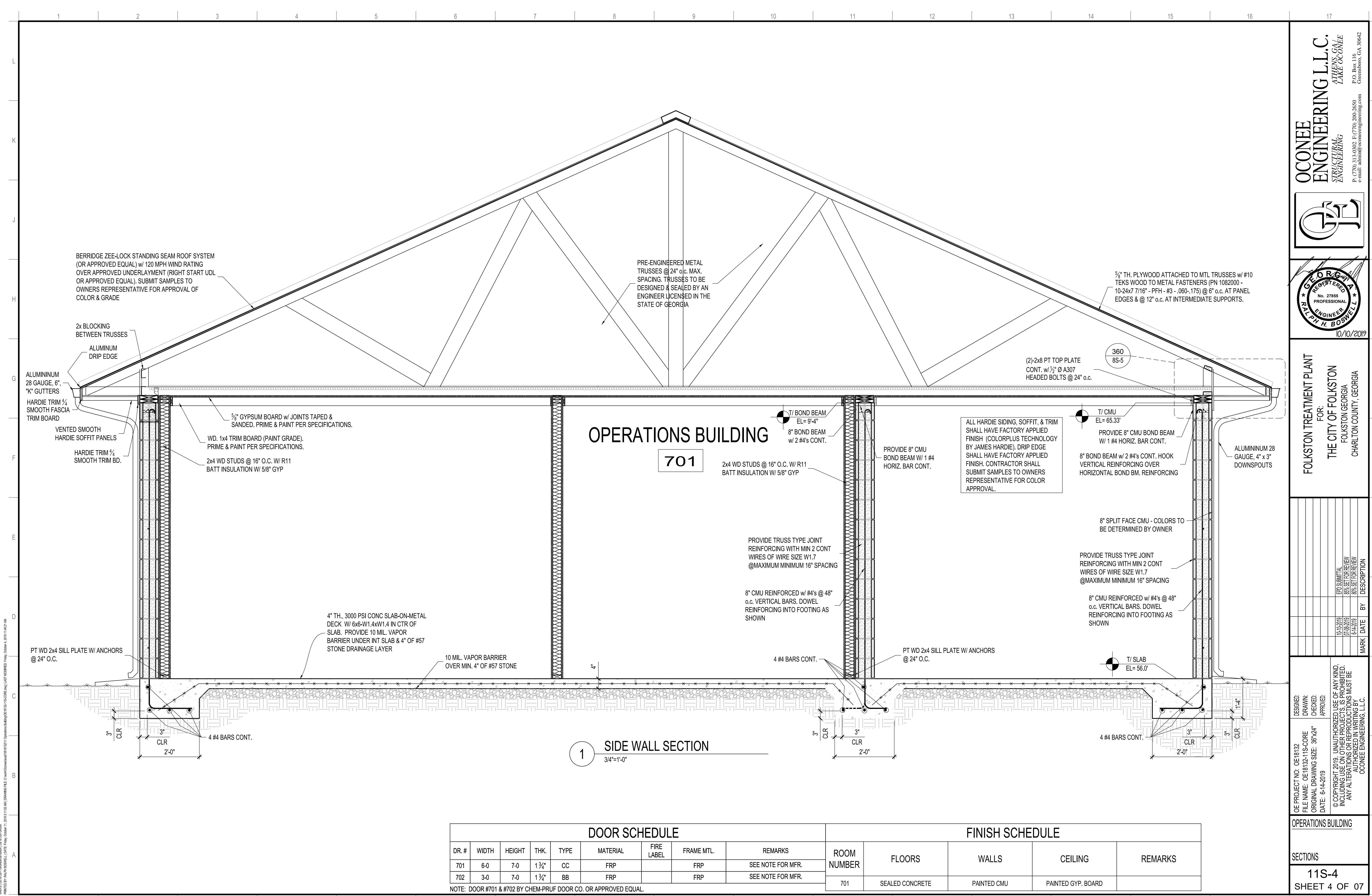


FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
	10-10-2019		EPD SUBMITTAL
	02-28-2019		65% SET FOR REVIEW
	6-14-2019		85% SET FOR REVIEW

DESIGNED: 06/18/2019
FILE NAME: 06/18/2019-11S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 6-14-2019
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OPERATIONS BUILDING
SECTIONS
11S-3
SHEET 3 OF 07



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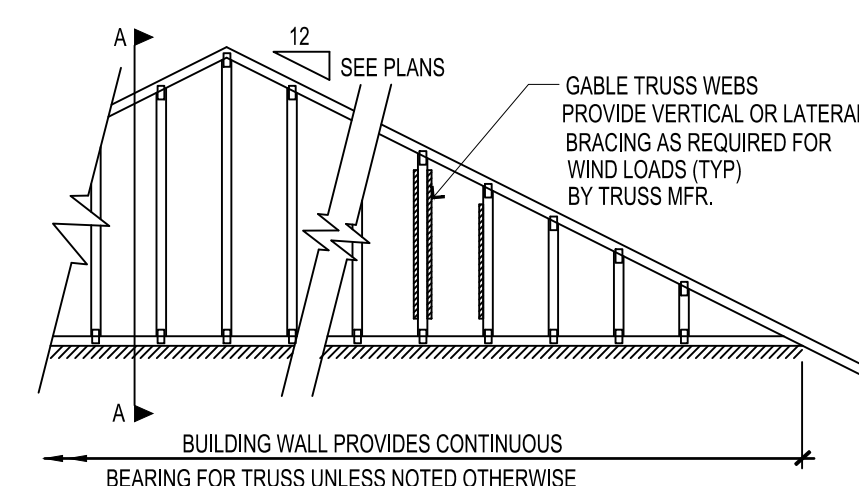
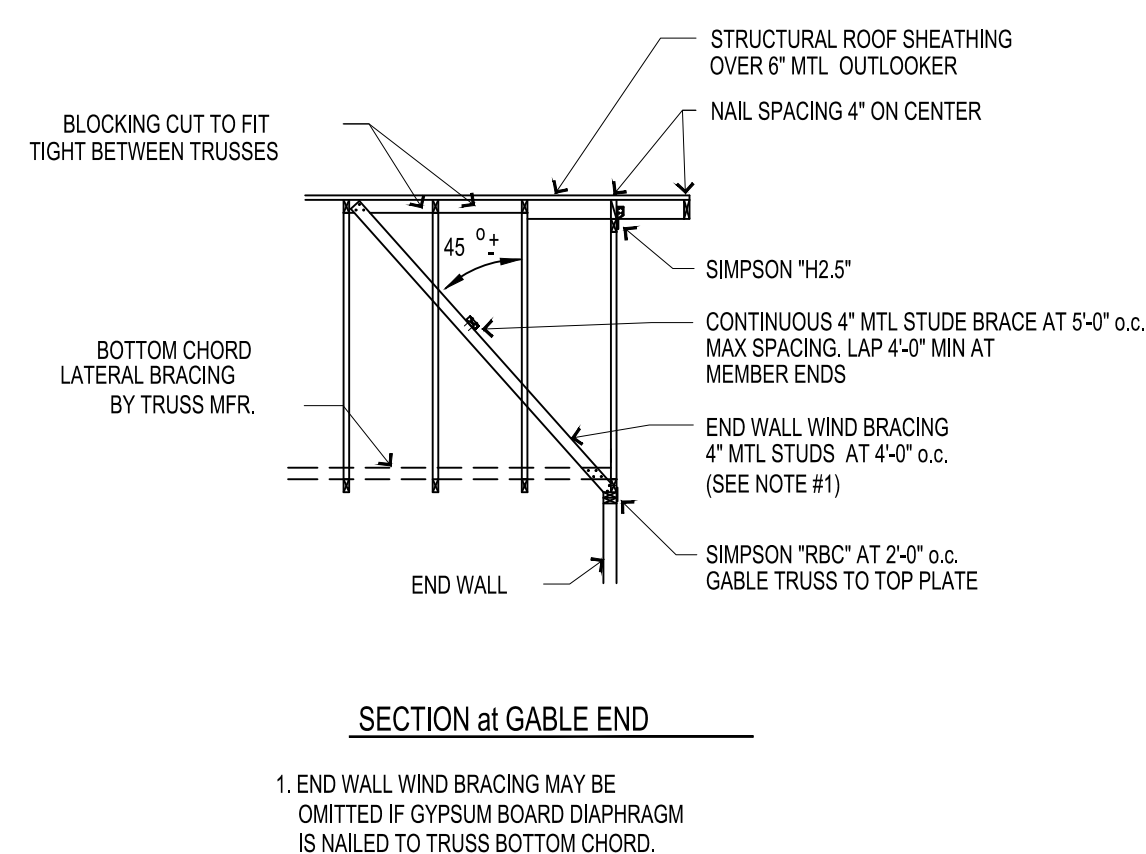
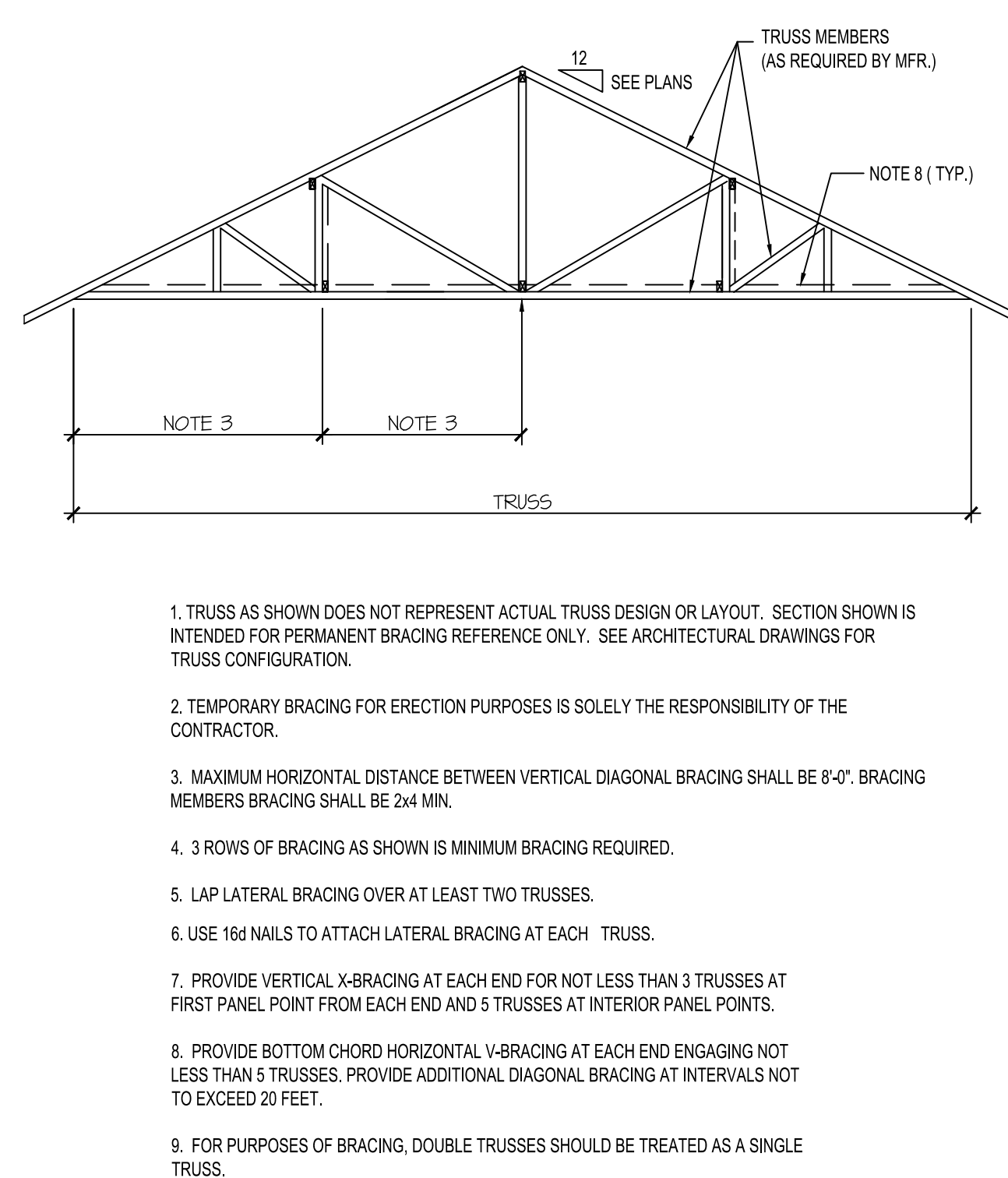
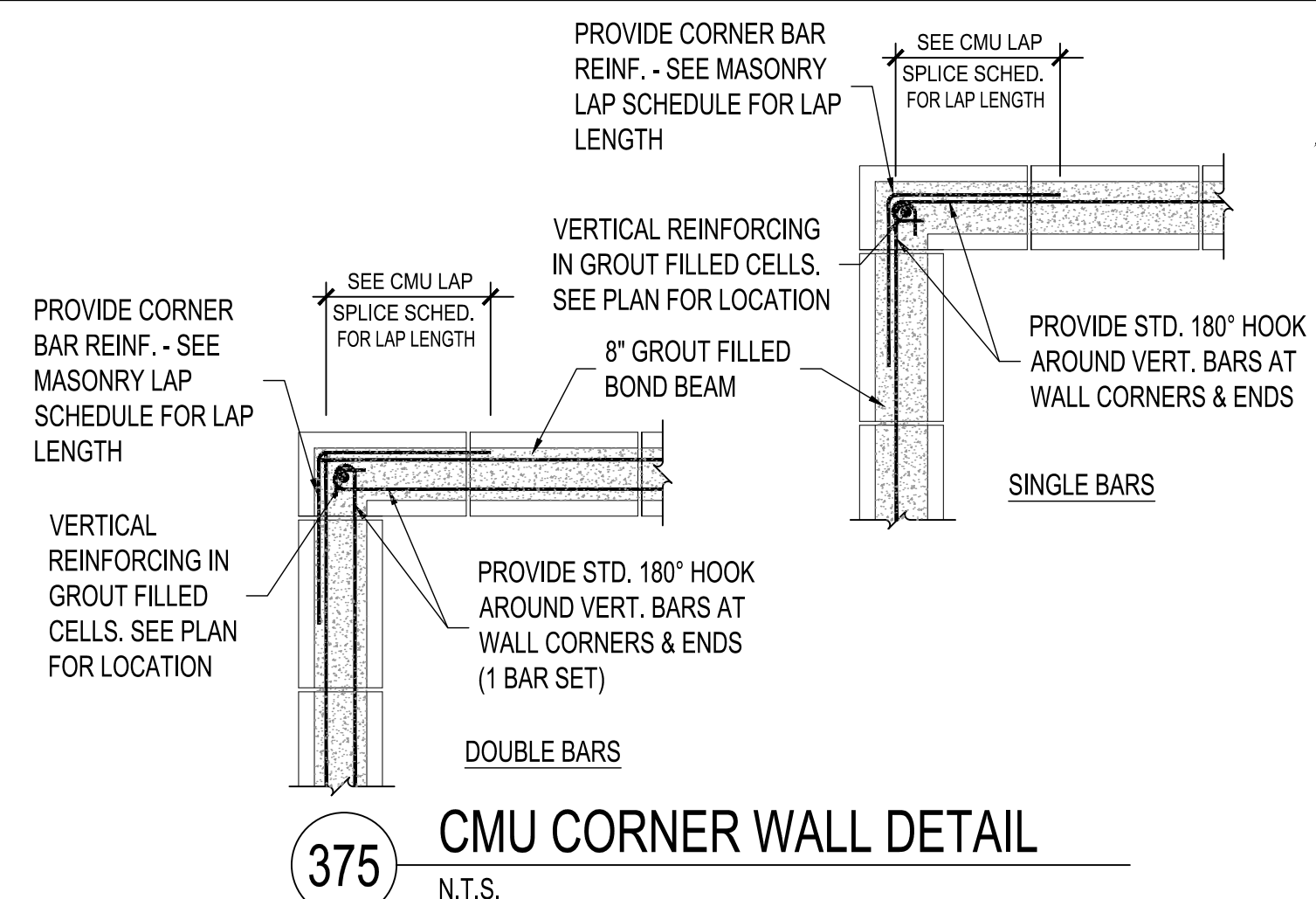
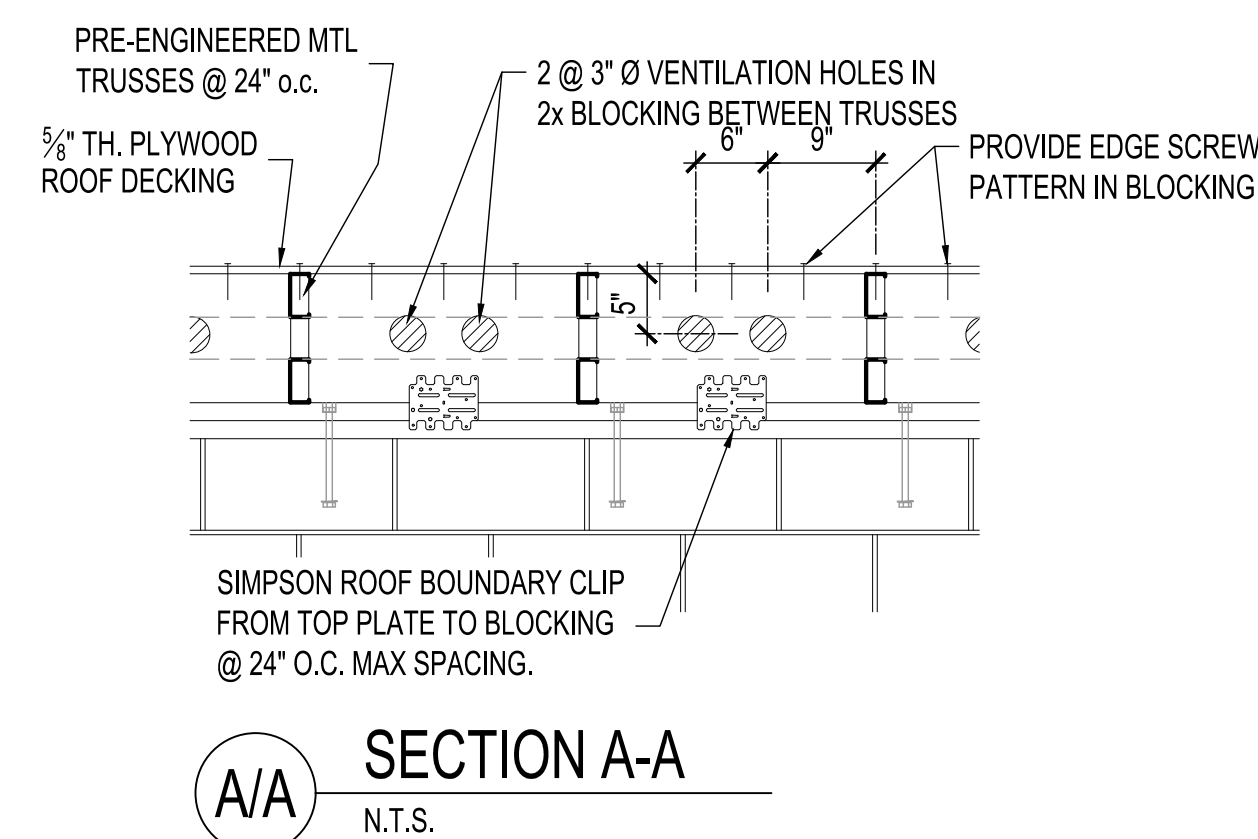
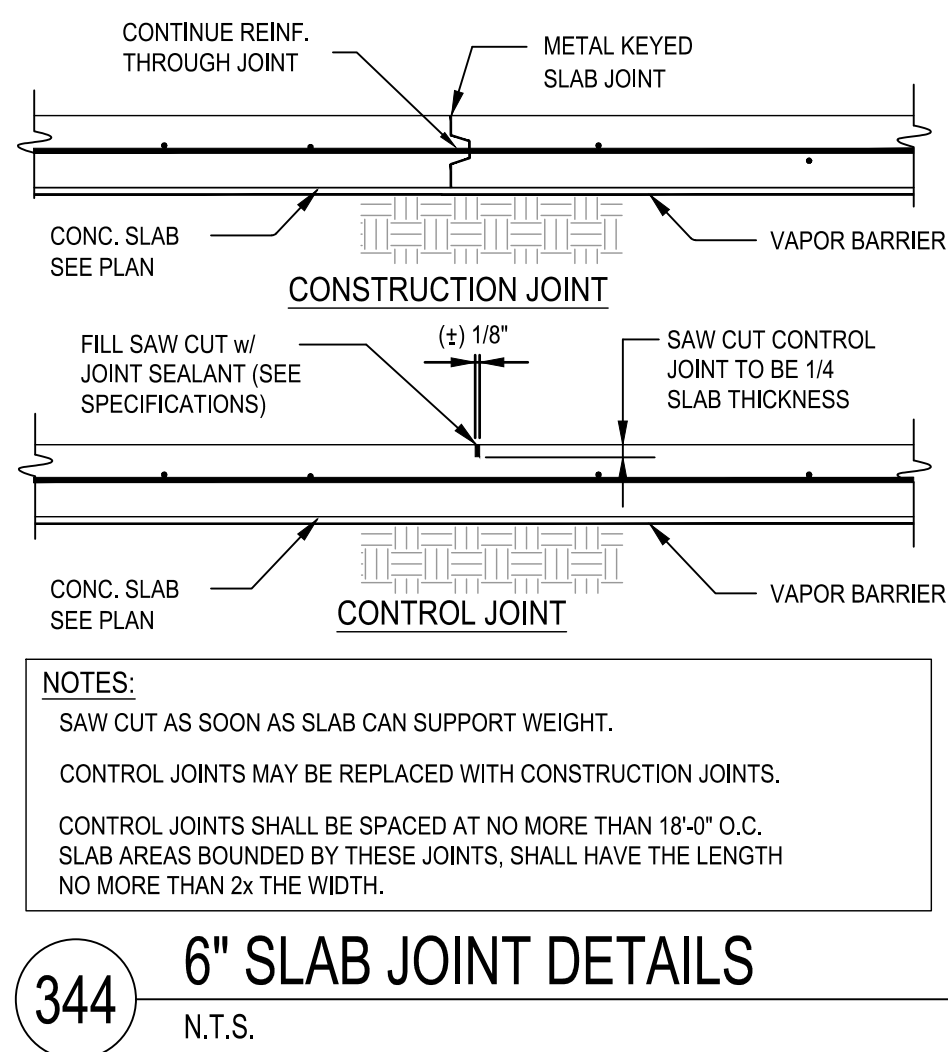
FOR:
FOLKSTON TREATMENT PLANT
THE CITY OF FOLKSTON
FOLKSTON, GEORGIA
CHARLTON COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
10/10/2019			

DESIGNED:	06/18/2021
DRAWN:	06/18/2021
CHECKED:	06/18/2021
APPROVED:	06/18/2021

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OPERATIONS BUILDING
SECTIONS
11S-4
SHEET 4 OF 07

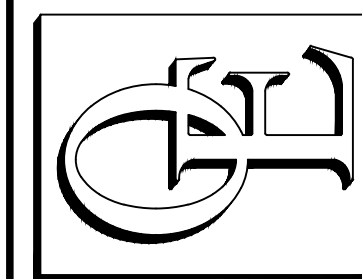


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FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON GEORGIA
CHARLTON COUNTY, GEORGIA

DATE	REV	DESCRIPTION
10-10-2019		E2D SUBMITTAL
07-08-2019		65% SET FOR REVIEW
6-14-2019		80% SET FOR REVIEW

PROJECT NO: OE18132 FILE NAME: OE18132-115-CORE ORIGINAL DRAWING SIZE: 36"x24" DATE: 6-14-2019	DESIGNED: DRAWN: CHECKED: APPROVED:
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OPERATIONS BUILDING

DETAILS

11S-5

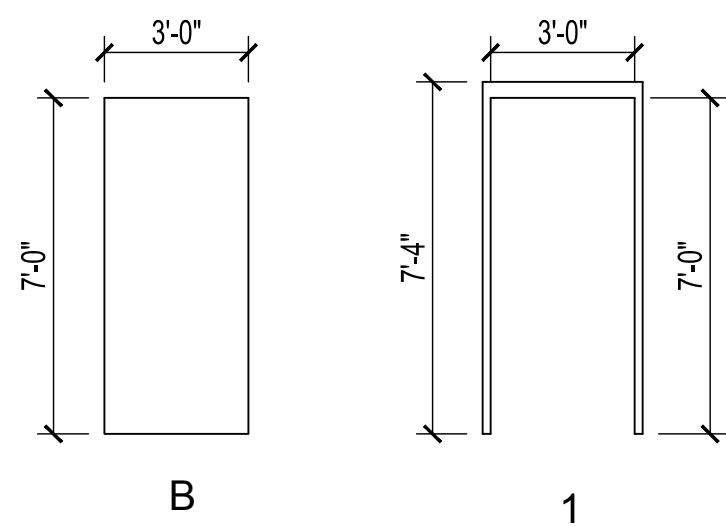
SHEET 5 OF 07

D O O R S C H E D U L E

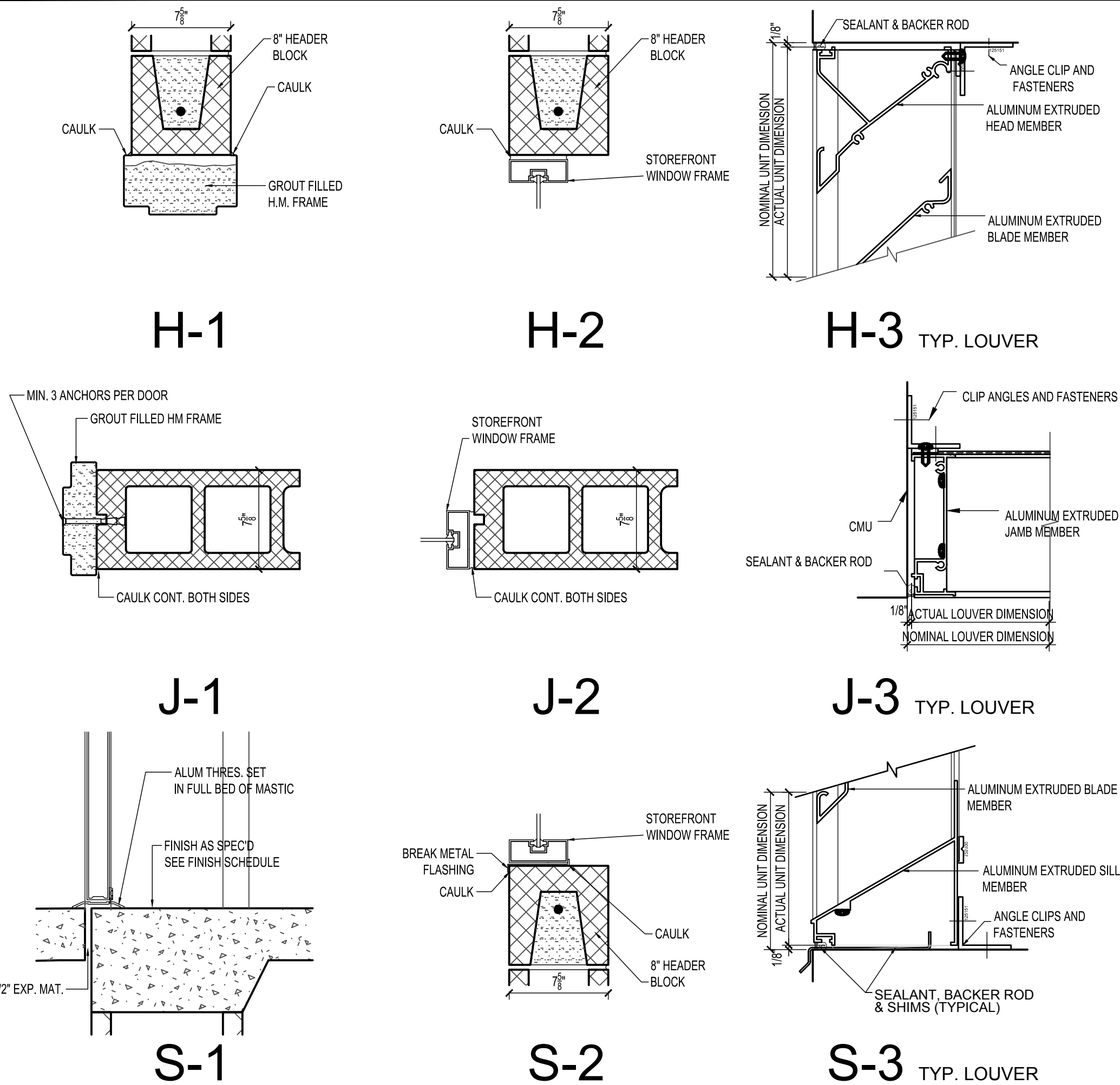
DOOR NUMBER	DOOR LOCATION	DOORS						FRAME							LABEL	HDW. SET (NOTE 1)	REMARKS	DOOR NUMBER
		TYPE	WIDTH	SIZE HEIGHT	THICK	MAT'L	FINISH	SIZE	TYPE	MATERIAL	FINISH	HEAD	JAMB	THR.				
01	OP AND LAB BLDG	B	3'-0"	7'-0"	1-3/4"	FIBERGLASS	PAINT	7-1/4"	1	H.M.	PAINT	1/A-5	2/A-5	ALUM		1		01
02	OP AND LAB BLDG	B	3'-0"	7'-0"	1-3/4"	FIBERGLASS	PAINT	7-1/4"	1	H.M.	PAINT	1/A-5	2/A-5	---		1		02

NOTES: 1. ALL DOOR HARDWARE SHALL BE OPERABLE LEVER TYPE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.

DOOR AND FRAME TYPES



DOOR, WINDOW AND LOUVER DETAILS



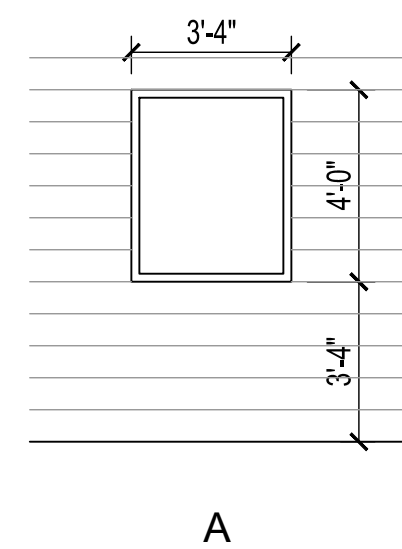
W I N D O W S C H E D U L E

[illegible]

NOTES:

1. STOREFRONT MANUFACTURE IS YKK AP STOREFRONT SYSTEM YES 40 FS 1-3/4 X4

DOOR AND FRAME TYPES



ROOM FINISH SCHEDULE

KEY		FLOOR				BASE		WALLS				CEILING				NOTES
NO.	NAME	SEALED CONCRETE	FLOOR FINISH BY OWNER			NONE	RUBBER BASE - BY OWNER			PAINTED CMU -P1	PAINTED GYP BOARD -P1			PAINTED GYPSUM BD - P2	HEIGHT	
	OPERATIONS AND LAB BUILDING															-
100	HALL		⊗				⊗			⊗				⊗	9'-5 1/2	
101	HALL		⊗				⊗			⊗				⊗	9'-5 1/2	
102	MEN'S RR		⊗				⊗			⊗				⊗	9'-5 1/2	
103	WOMEN'S HALL		⊗				⊗			⊗				⊗	9'-5 1/2	
104	OFFICE		⊗				⊗			⊗				⊗	9'-5 1/2	
105	LABORATORY		⊗				⊗			⊗				⊗	9'-5 1/2	
106	WOMEN'S HALL		⊗				⊗			⊗				⊗	9'-5 1/2	
107	ELECTRICAL ROOM	⊗				⊗				⊗				⊗	9'-5 1/2	

ROOM FINISH NOTES

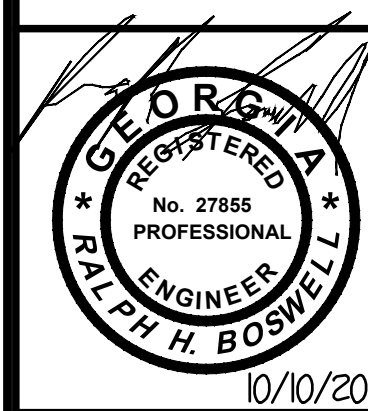
NOTES:
1. ALL INTERIOR FINISHES BY OWNER

LIST OF FINISHES

INTERIOR PAINT

[illegible]

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FOLKSTON TREATMENT PLANT
FOR:
THE CITY OF FOLKSTON
FOLKSTON GEORGIA
CHARLTON COUNTY, GEORGIA

[illegible]

PROJECT NO: OE18132 FILE NAME: OE18132-1S-CORE ORIGINAL DRAWING SIZE: 36"x24" DATE: 6-14-2019	DESIGNED: DRAWN: CHECKED: APPROVED:
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OPERATIONS BUILDING

SECTIONS AND SCHEDULES

11S-6
SHEET 6 OF 07

CADD PLOT
29-SEP-2023
13:04
LCAULEY

LEGEND	
SYMBOL	DESCRIPTION
	A-1,3,5 TO ARROW INDICATES CIRCUIT CONTINUATION. MARKS ACROSS RACEWAY RUNS INDICATE THE NUMBER OF NO. 12 CONDUCTORS. UNLESS NOTED, NO MARKS INDICATES TWO NO. 12 CONDUCTORS. EQUIPMENT GROUNDING CONDUCTORS ARE NOT SHOWN, SEE GENERAL NOTES. IF INDICATED ADJACENT TO OUTLET, NUMERAL AND LOWER CASE LETTER INDICATES CIRCUIT CONNECTION AND SWITCHLEG DESIGNATION RESPECTIVELY. TYPE B OR CAPITAL LETTER B INDICATES LIGHT FIXTURE TYPE. UNLESS NOTED, DIMENSIONS INDICATED IN LEGEND AND ON PLANS ARE TO BOTTOM OF OUTLET OR DEVICE. ALL SYMBOLS INDICATED HEREIN MAY NOT NECESSARILY BE USED ON THE PLANS.
	CEILING OUTLET AND LED FIXTURE
	WALL OUTLET AND LED FIXTURE
	OUTLET AND EXIT LIGHT - LETTERS INDICATE FIXTURE TYPE. PROVIDE ARROWS INDICATED
	POST TOP LUMINAIRE, POLE, AND CONCRETE BASE. REFER TO DETAIL 5/E1-B
	POLE TOP FLOOD LIGHTS, POLE, AND CONCRETE BASE. REFER TO DETAIL 3/E1-B
	WALL MOUNTED TWO HEAD EMERGENCY FIXTURE
	PHOTOCELL, TORK MODEL 2107, MOUNTED UNDER EAVE
	WEATHERPROOF JUNCTION BOX MOUNTED TO CONCRETE STRUCTURE
	POLYMER CONCRETE JUNCTION BOX MOUNTED FLUSH IN GRADE. REFER TO DETAIL 4/E-1A
	DUPLEX RECEPTACLE- MT. 16" AFF, NUMBER DESIGNATES LOCAL BRANCH CIRCUIT SERVING OUTLET
	DUPLEX RECEPTACLE- MT. 48" AFF AND/OR ABOVE COUNTER TOP
	WEATHERPROOF DUPLEX RECEPTACLE, MT. 16" ABOVE FLOOR AND 36" ABOVE EARTH W/ IN-USE COVER, TYPE 'WR' RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE, REFER TO ASSOCIATED NOTE(S)
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE- MT. 48" AFF AND/OR ABOVE COUNTER TOP OR AS INDICATED
	DOUBLE DUPLEX RECEPTACLE- MT. 16" AFF
	DUPLEX RECEPTACLE, NEMA 5-20R- MT. 16" AFF
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE WITH IN-USE COVER, NOTE G6.
	TELEPHONE OUTLET- MT. 16" AFF U.N.O. EXTEND 1" C TO ABOVE ACCESSIBLE CEILING - NOTE G15
	SINGLE POLE TOGGLE SWITCH- MT. 48" UP
	THREE-WAY TOGGLE SWITCH- MT. 48" UP
	FOUR-WAY TOGGLE SWITCH- MT. 48" UP
	MOTOR RATED SWITCH WITH OVERLOAD PROTECTION- MT. 48" UP.
	MOTOR RATED DISCONNECT SWITCH, SINGLE PHASE - MT. 48" UP.
	PUSH-BUTTON START/STOP SWITCH
	EMERGENCY POWER-OFF PUSHBUTTON STATION
	PANELBOARD, SURFACE MOUNTED
	TELEPHONE OR SIGNAL BACKBOARD, 3/4" X 4" X 8" UNLESS NOTED OTHERWISE, NOTE G14
	DRY-TYPE TRANSFORMER - VOLTAGE, PHASE, AND KVA AS INDICATED
	EQUIPMENT AS NOTED
	ELECTRIC METER
	MOTOR, HORSEPOWER AS INDICATED
	NON-FUSIBLE DISCONNECT SWITCH, RATING/POLES/ENCLOSURE AS INDICATED
	MAGNETIC STARTER
	COMBINATION MAGNETIC STARTER/NON-FUSIBLE DISCONNECT SWITCH
	ELECTRIC THERMOSTAT- MT. 54" A.F.F.
	RACEWAY INSTALLED CONCEALED IN WALLS AND/OR ABOVE CEILING
	RACEWAY INSTALLED CONCEALED IN/OR BELOW FLOOR SLAB OR BELOW GRADE
	RACEWAY INSTALLED EXPOSED
	FLEXIBLE METALLIC RACEWAY
	CONDUIT STUB-UP AND HOMERUN
	CONDUIT UP/CONDUIT DOWN
	CONDUIT TERMINATION, STUB-OUT
	GROUND
	GROUND ROD LOCATION
	FLOW METER, ULTRASONIC TYPE, PROVIDED BY OTHERS - GROUND AS REQUIRED
	SOLENOID VALVE, PROVIDED WITH EQUIPMENT, FIELD INSTALLED AND WIRED.
	PRESSURE SWITCH, PROVIDED WITH EQUIPMENT, FIELD INSTALLED AND WIRED
	FLOAT SWITCH
	SEAL-OFF FITTING
	SEALING HUB
	ULTRASONIC TRANSDUCER
	DISSOLVED OXYGEN SENSOR, FURNISHED BY OTHERS, INSTALLED BY DIV. 16
	PRESSURE TRANSMITTER, FURNISHED BY OTHERS, INSTALLED BY DIV. 16
	VACUUM TRANSMITTER, FURNISHED BY OTHERS, INSTALLED BY DIV. 16

ABBREVIATIONS			
A OR AMP	AMPERES	MCB OR MB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MH OR MTG	MOUNTING HEIGHT
AIC	AMPERE INTERRUPTING CAPACITY	MLO	MAIN LUGS ONLY
AM	AMMETER	MT OR MTD	MOUNT OR MOUNTED
ASYM	ASYMMETRICAL	NEC	NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NFPA	NATIONAL FIRE PROTECTION ASSOC.
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	P	POLE
CKT	CIRCUIT	PMT	PAD MOUNT TRANSFORMER
CLF	CURRENT LIMITING FUSE	PNL	PANELBOARD
CNTL	CONTROL	RC	REMOTE CONTROL SWITCH
CT	CURRENT TRANSFORMER	RECEPT	RECEPTACLE
D	DEPTH	RMS	ROOT MEAN SQUARE
DISC	DISCONNECT SWITCH	SP SPD	SURGE PROTECTION DEVICE
DISC SW	DISCONNECT SWITCH	SW	SWITCH
EXP	EXPLOSION PROOF	SWBD	SWITCHBOARD
F	FUSE	SYM	SYMMETRICAL
FA	FIRE ALARM	TBB	TELEPHONE BACKBOARD
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
G OR GND	GROUND	UG	UNDERGROUND
H	HEIGHT	UL	UNDERWRITERS LABORATORIES
HP	HORSEPOWER	UNO	UNLESS NOTED OTHERWISE
JB OR J	JUNCTION BOX	V	VOLTS
KVA	KILOVOLT - AMPS	VM	VOLTMETER
KW	KILOWATTS	W	WIDTH
L	LENGTH	W/	WITH
LA	LIGHTNING ARRESTOR	WM	WATTMETER
		WP	WEATHER PROOF
		XFMR	TRANSFORMER

GENERAL NOTES: (FOR ALL DRAWINGS WHERE APPLICABLE)

- G1. WHEN CONDUCTOR SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.
- G2. ALL EQUIPMENT SUPPORTS AND HANGERS SHALL BE COORDINATED WITH STRUCTURAL DRAWINGS TO INSURE THAT LOCATION OF SUPPORTS AND HANGERS OCCUR WITHIN 4" OF PANEL POINT.
- G3. PIPING HEAT TAPE CONNECTIONS SHALL BE DIRECT CONNECTIONS.
- G4. GROUNDING CONDUCTORS SHALL BE PROVIDED FOR ALL BRANCH CIRCUITS. REFER TO SECONDARY GROUNDING SPECIFICATION SECTION.
- G5. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL REQUIREMENTS OF THE EQUIPMENT PROVIDED WITH THE DRAWINGS. ANY DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER. ANY REQUIRED ADJUSTMENTS IN BREAKER RATINGS, MOTOR CONTROLLERS, FEEDERS, ETC. SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. ALL REQUIRED ADJUSTMENTS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER BEFORE PROCEEDING.
- G6. THE RECEPTACLE SHALL BE STANCHION MOUNTED ON THE TOP OF THE SBR TANK WALL. REFER TO DETAIL 3/E-1A. PROVIDE WEATHER RESISTANT TYPE 'WR' RECEPTACLE AND A GROUND FAULT CIRCUIT BREAKER IN THE BRANCH PANEL.
- G7. THE AUTOMATIC TRANSFER SWITCH SHALL PROVIDE A PRE-TRANSFER AND POST-TRANSFER SIGNAL TO THE IN-PLANT SCADA SYSTEM AND TO THE AQUA-AEROBICS CONTROL PANEL. THE SCADA AND AQUA-AEROBICS PANELS SHALL PROVIDE THE LOAD STEP SEQUENCE REQUIRED IN SPECIFICATION SECTION 16210.
- G8. ALL CONDUITS AND FITTINGS IN HEADWORKS/BAR SCREEN, ODOR CONTROL, GRIT REMOVAL INFLUENT PUMP STATION AND SBR TANK TO BE STAINLESS STEEL.
- G9. THE GENERATOR AND AUTOMATIC TRANSFER SWITCH ALARMS, STATUS AND PRE-ALARM CONDITIONS SHALL BE ANNUNCIATED TO THE IN-PLANT SCADA SYSTEM AND DISPLAYED ON THE OPERATOR'S DISPLAY.
- G10.REFER TO SPECIFICATION SECTION 16055 FOR REQUIRED SHORT CIRCUIT COORDINATION AND ARC FLASH STUDY.
- G11.REFER TO SPECIFICATION SECTION 16481 FOR REQUIRED HARMONIC ANALYSIS STUDY FOR IEEE 519 COMPLIANCE.
- G12.PROVIDE FOR HAZARDOUS INSTALLATIONS AS REQUIRED BY NFPA 820.
- G13.FOR TERMINATION OF CONDUITS AT THE JUNCTION BOXES, PROVIDE CROUSE-HINDS ES SEALING HUBS.
A. CONTROL PANEL TO JUNCTION BOX CONDUITS:
1. PROVIDE TWO SEALING LOCKNUTS (INSIDE/OUTSIDE ENCLOSURE) TO MAINTAIN THE 4X RATING OF THE JUNCTION BOXES.
2. PROVIDE A NYLON BUSHING ON THE HUB.
3. SEAL THE CONDUIT HUBS WITH TSC EPOXY SEALING COMPOUND.
4. PRESSURE TRANSDUCER CONDUIT SHALL BE SEALED PER NOTE G13.B.
B. JUNCTION BOX TO WET WELL CONDUITS:
1. PROVIDE TWO SEALING LOCKNUTS (INSIDE/OUTSIDE ENCLOSURE) TO MAINTAIN THE 4X RATING OF THE JUNCTION BOXES.
2. PROVIDE A NYLON BUSHING ON THE HUB.
3. PACK HUB WITH DUCT SEAL AROUND CABLES. LEAVE BETWEEN 1/4" TO 3/8" OF SPACE AT THE TOP OF THE HUB (NOT BUSHING).
4. POUR 1/4" TO 3/8" OF EPOXY SEALING COMPOUND INTO TOP OF SEALING HUB.
- G14.COMMUNICATIONS BACKBOARDS SHALL BE 3/4" X 48" X 96" FIRE RETARDANT PLYWOOD PAINTED ON BOTH SIDES AND ALL EDGES WITH TWO COATS OF GRAY FIRE RETARDANT PAINT.
- G15.ALL TELEPHONE BOXES TO BE 4 11/16" SO DEEP BOXES.

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WATER POLLUTION
CONTROL PLANT

**LEGEND,
ABBREVIATIONS
&
GENERAL NOTES**

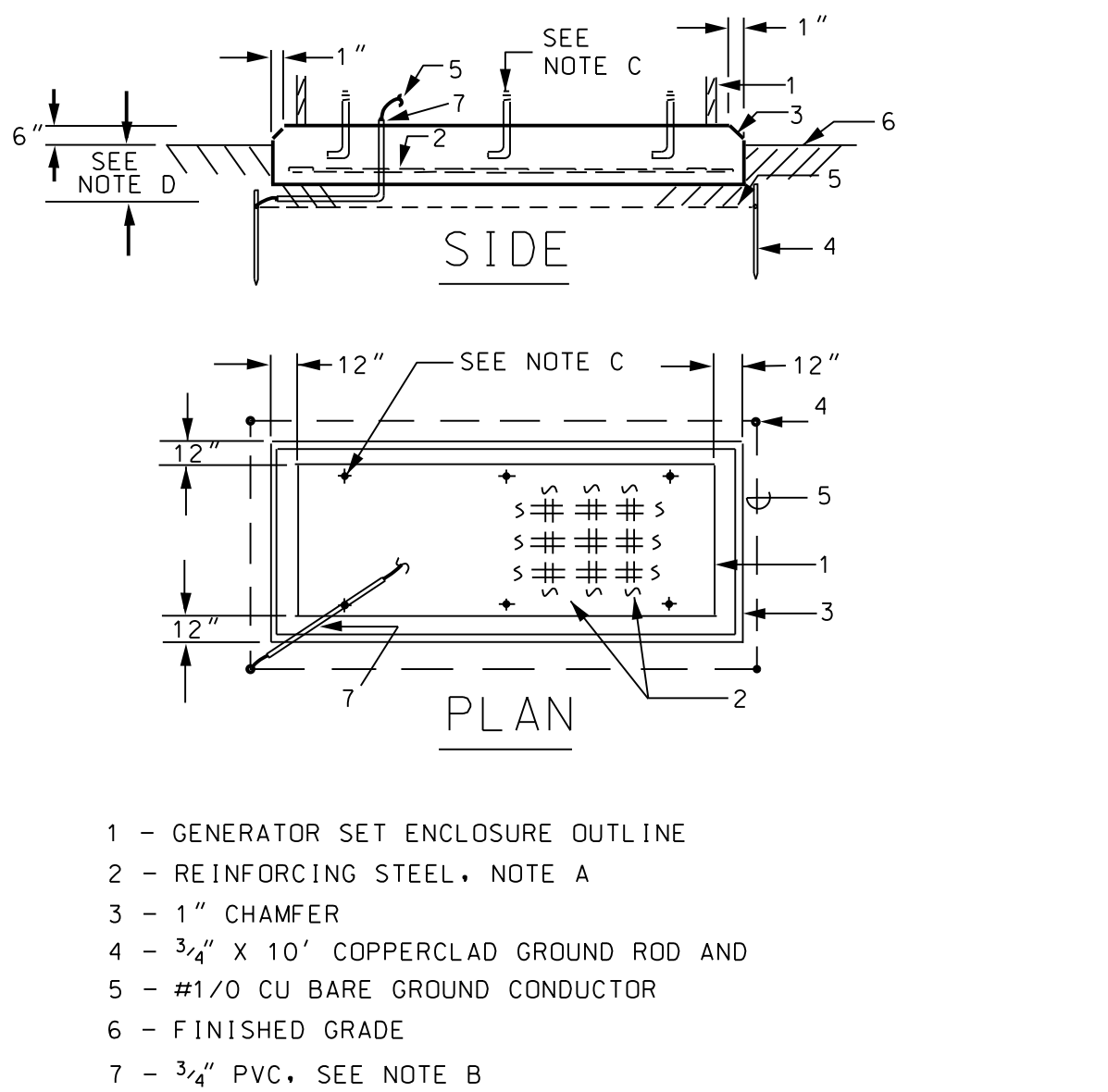
SHEET: E-1

FILE NO: 2013-36

PLOT DATE: September 29, 2023

109 PARK OF COMMERCE DRIVE, SUITE 6
SAVANNAH, GEORGIA 31405 (912)238-2400

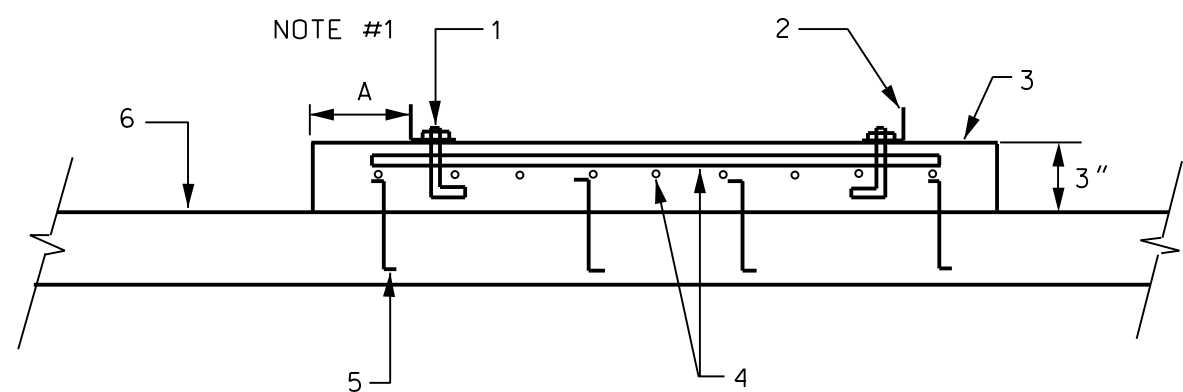
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NOTES: GENERATOR FOUNDATION DETAIL

- A. #8 GA. STEEL WIRE MESH, 6" O.C. OR #6 REBAR, 12" O.C., HORIZ. & VERTICALLY.
- B. CONNECT TO GENERATOR GROUND CONNECTION LUG. VERIFY STUB UP LOCATION WITH MANUFACTURERS SHOP DRAWINGS. WATERPROOF CONDUIT END WITH SEALING COMPOUND.
- C. ANCHOR BOLTS FURNISHED WITH GENERATOR SET. PROVIDE SIX MINIMUM. TIE TO REINFORCING STEEL.
- D. DIMENSION SHALL BE 6" (12" OVERALL DEPTH) UP TO & INCLUDING 600 KW, 12" (18" OVERALL DEPTH) LARGER THAN 600 KW.

1 GENERATOR FOUNDATION DETAIL
E-1A N.T.S.

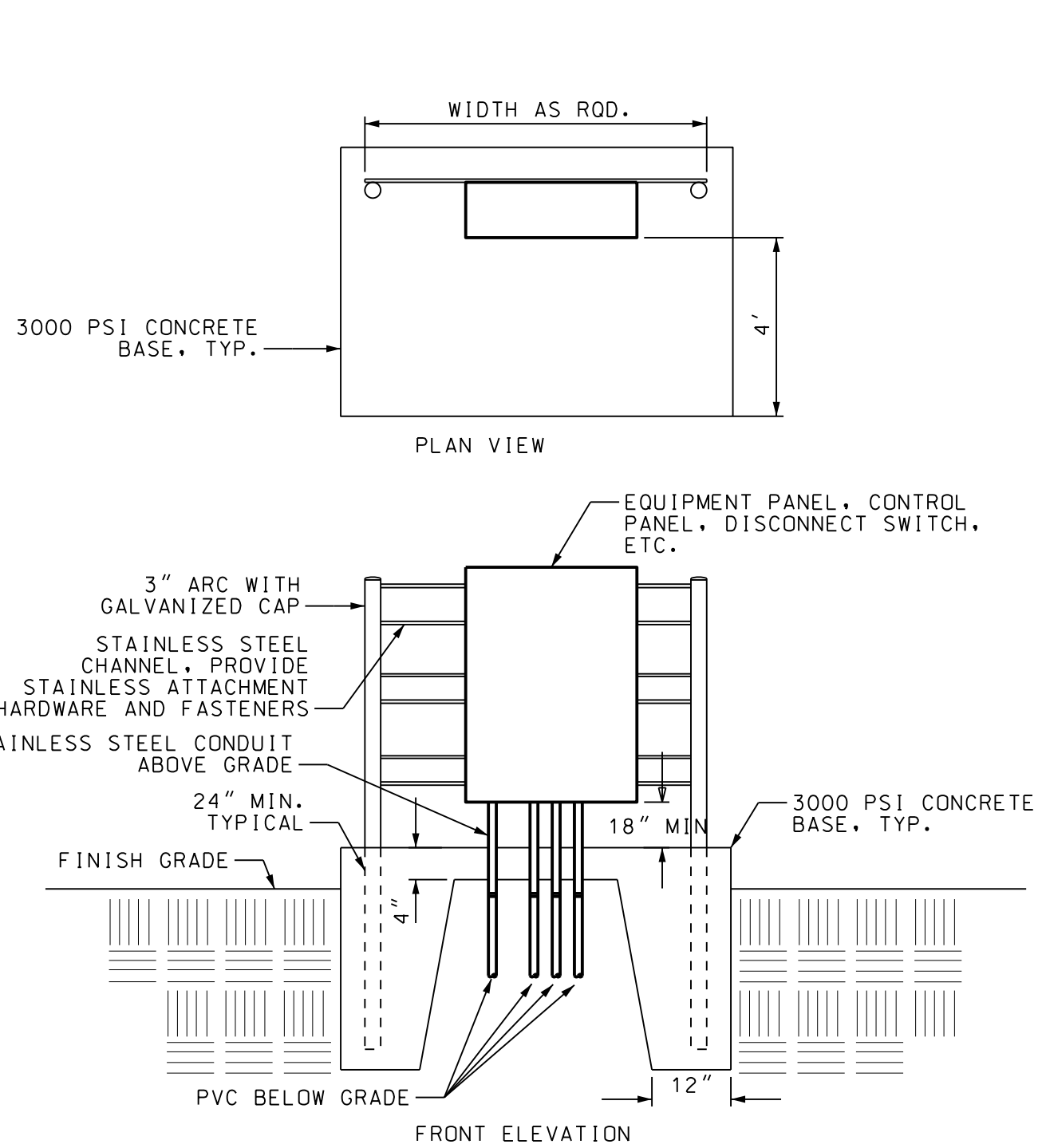


1. 1/2" GALV. ANCHOR BOLTS - 24" O.C. MIN.
2. ELECTRICAL EQUIPMENT MOUNTING FRAME
3. HOUSEKEEPING BASE
4. REINFORCING #4 BAR 12" O.C. BOTH DIRECTIONS
5. #4 Z BAR DOWELS - 12" O.C. BOTH DIRECTIONS
6. FLOOR SLAB

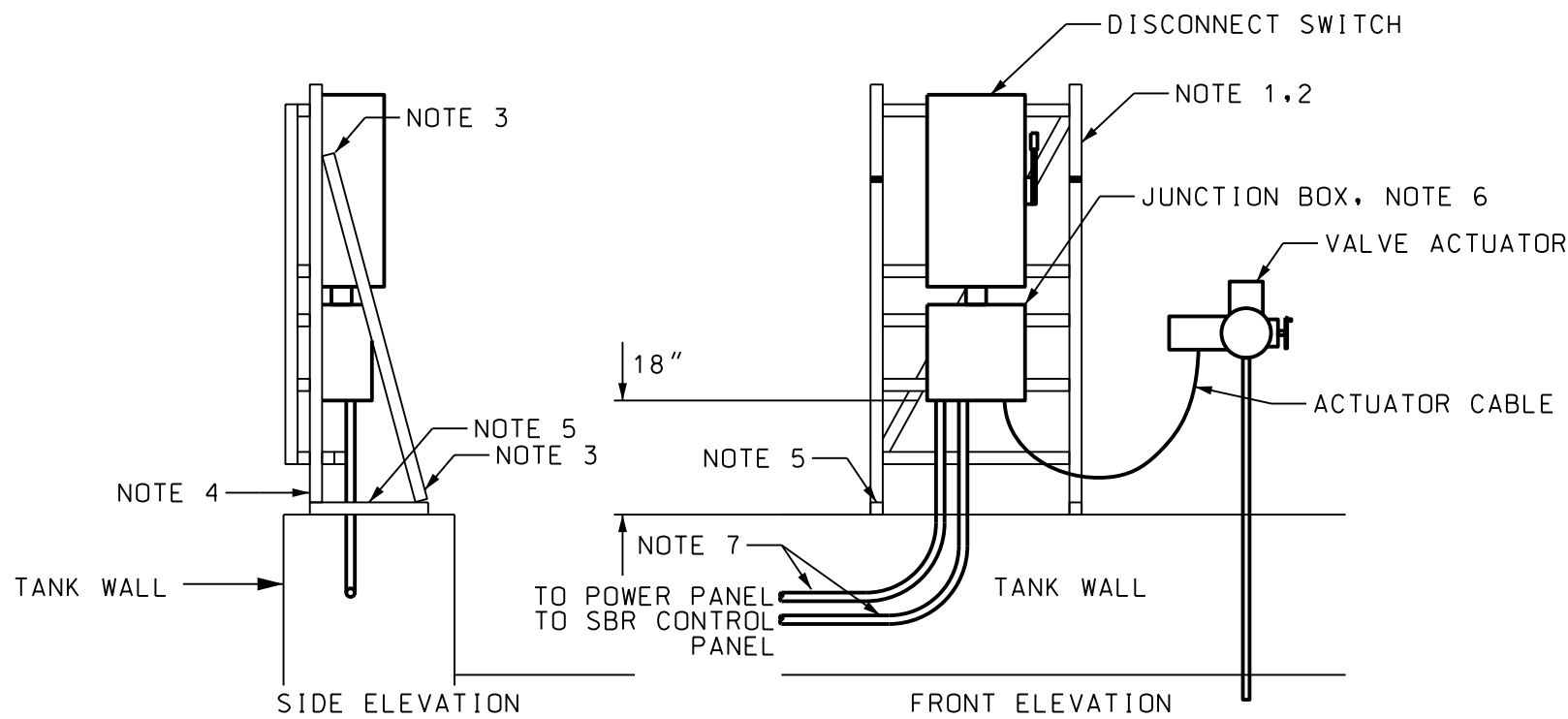
NOTES: ELECTRICAL EQUIPMENT HOUSEKEEPING BASE

1. DIMENSION "A" SHALL EXCEED DIMENSIONS OF EQUIPMENT BASE BY NOT LESS THAN THREE INCHES IN ALL DIMENSIONS.
2. THIS DETAIL SHALL BE APPLICABLE TO MAIN SWITCHBOARD, FLOOR MOUNTED DRY TYPE TRANSFORMER, FLOOR MOUNTED AUTOMATIC TRANSFER SWITCHES, COMMUNICATION EQUIPMENT RACKS AND OTHER FLOOR MOUNTED ELECTRICAL EQUIPMENT EXCEEDING 200 LBS IN WEIGHT.

5 ELECTRICAL EQUIPMENT HOUSEKEEPING BASE
E-1A N.T.S.



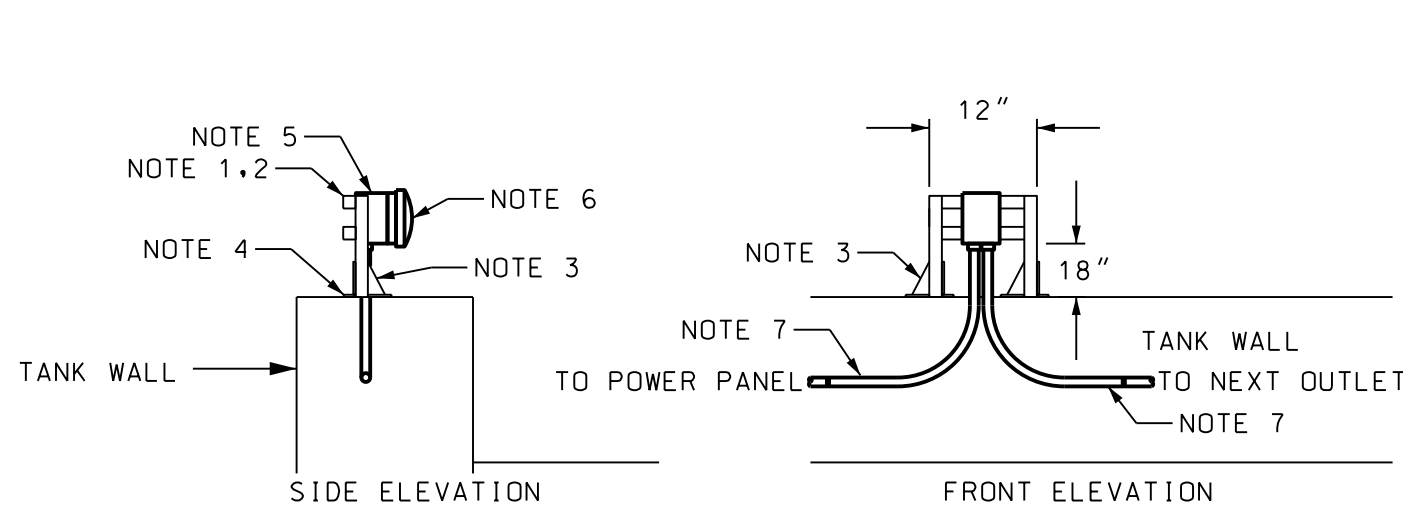
2 EQUIPMENT RACK
E-1A N.T.S.



NOTES: 480V VALVE ACTUATOR DISCONNECT DETAIL

1. ALL CHANNEL, FASTENERS, ACCESSORIES, ETC. SHALL BE 304 STAINLESS STEEL, MINIMUM. PROVIDE PRODUCTS OF B-LINE, UNISTRUT OR POWERSTRUT.
2. 12GA, 304 STAINLESS STEEL CHANNEL, 1 5/8" X 1 5/8", B-LINE B22 SERIES OR EQUAL.
3. B-LINE B335 FOUR-HOLE ADJUSTABLE HINGE, FOUR LOCATIONS.
4. B-LINE B104 FOUR-HOLE CORNER ANGLE.
5. PROVIDE FOUR RED HEAD TRUBOLT TYPE 316 ANCHORS TO SECURE FRAME TO STRUCTURE, PROVIDE SSW1236, 1/2"X3 3/4" ANCHOR.
6. JUNCTION BOX SHALL HAVE POWER TERMINAL BLOCK AND TERMINAL STRIP AS REQUIRED FOR TERMINATION OF ACTUATOR CABLE CONDUCTORS. A CORD GRIP AND KELLUM GRIP CABLE SUPPORT SHALL BE PROVIDED FOR THE MOTOR CABLE, FIELD COORDINATE REQUIRED TERMINAL WITH EQUIPMENT PROVIDED. PROVIDE SINGLE EYE, CLOSED MESH KELLUM, FIELD COORDINATE WITH CABLE FURNISHED BY OTHERS.
7. STAINLESS STEEL CONDUIT FROM WITHIN CONCRETE TO JUNCTION BOX. PVC WITHIN CONCRETE. NO FITTINGS ALLOWED 18" OR LESS ABOVE TANK WALL.

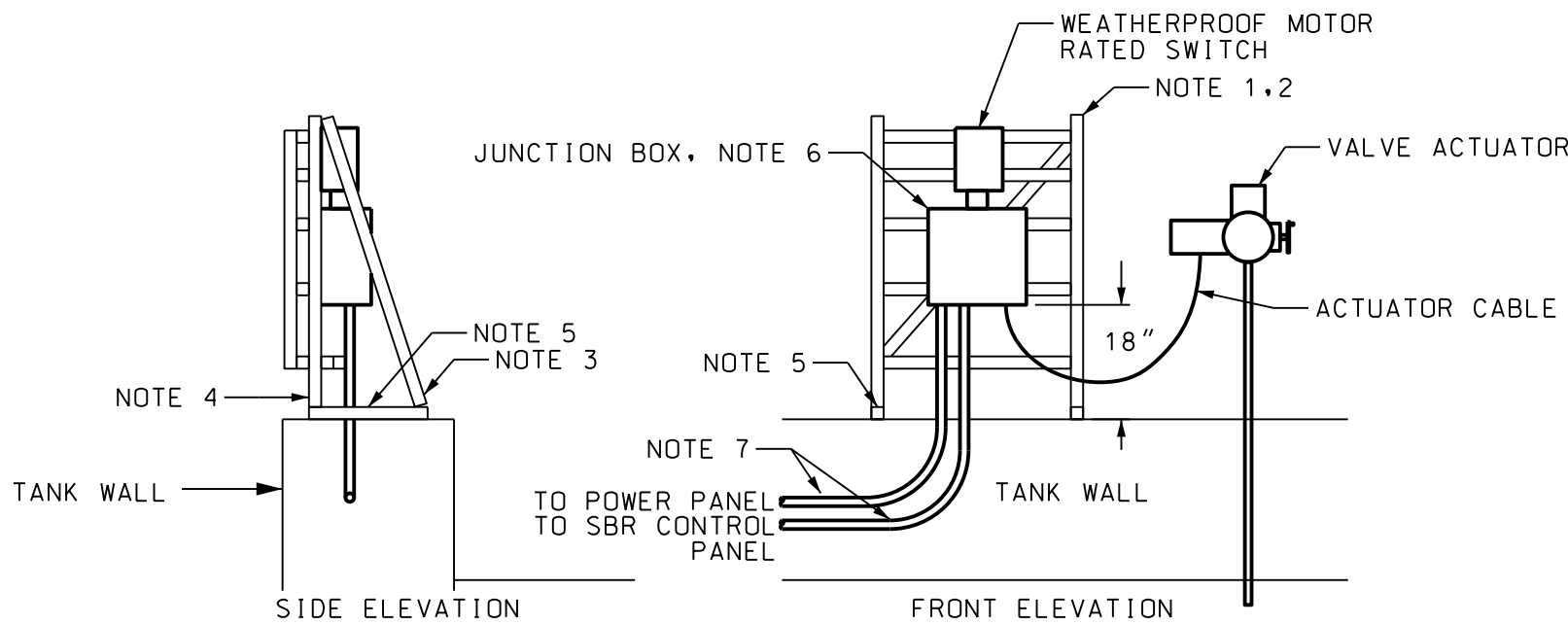
6 480V VALVE ACTUATOR DISCONNECT DETAIL
E-1A N.T.S.



NOTES: SBR TANK RECEPTACLE DETAIL

1. ALL CHANNEL, FASTENERS, ACCESSORIES, ETC. SHALL BE 304 STAINLESS STEEL, MINIMUM. PROVIDE PRODUCTS OF B-LINE, UNISTRUT OR POWERSTRUT.
2. 12GA, 304 STAINLESS STEEL CHANNEL, 1 5/8" X 1 5/8", B-LINE B22 SERIES OR EQUAL.
3. B-LINE B278 STAINLESS STEEL POST BASE FOR B22, TWO PER ASSEMBLY.
4. PROVIDE SIX RED HEAD TRUBOLT TYPE 316 ANCHORS TO SECURE FRAME TO STRUCTURE, PROVIDE SSW1236, 1/2"X3 3/4" ANCHOR.
5. RECEPTACLE OUTLET BOX SHALL BE A CROUSE-HINDS FDS2SS, STAINLESS STEEL DEVICE BOX WITH TWO 3/4" CONDUIT HUBS.
6. RECEPTACLE OUTLET WEATHERPROOF COVER SHALL BE A CALBRITE STAINLESS STEEL 1-GANG DEEP LID WEATHERPROOF COVER, S60000FVCD.
7. STAINLESS STEEL CONDUIT FROM WITHIN CONCRETE TO OUTLET BOX, PVC WITHIN CONCRETE. NO FITTINGS ALLOWED 18" OR LESS ABOVE TANK WALL.

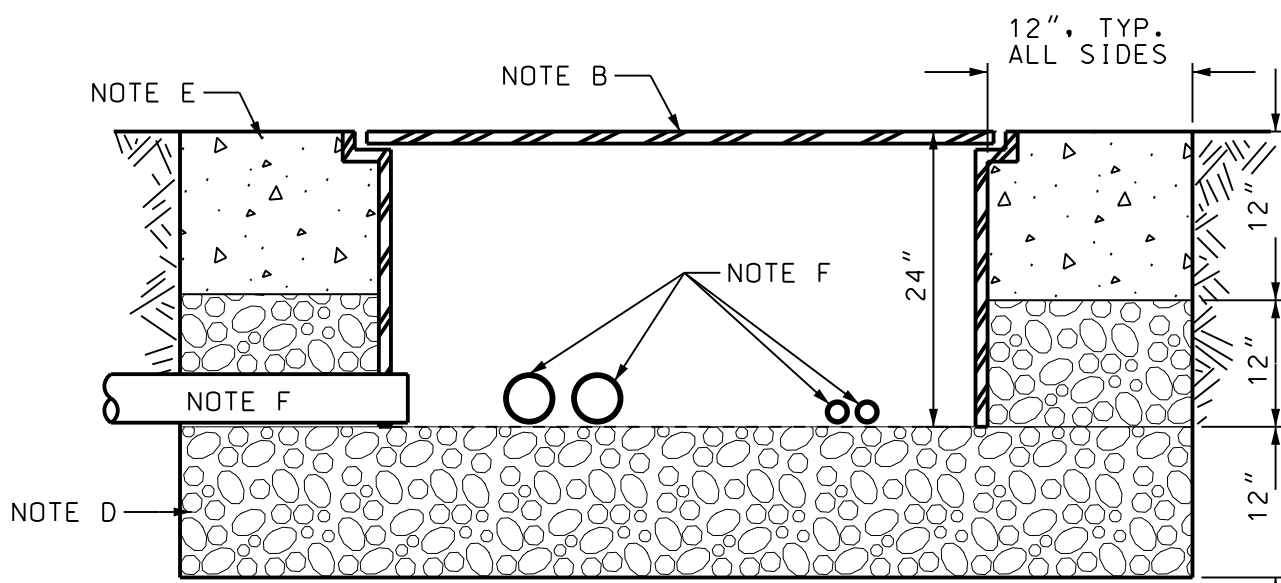
3 SBR TANK RECEPTACLE DETAIL
E-1A N.T.S.



NOTES: 120V VALVE ACTUATOR DISCONNECT DETAIL

1. ALL CHANNEL, FASTENERS, ACCESSORIES, ETC. SHALL BE 304 STAINLESS STEEL, MINIMUM. PROVIDE PRODUCTS OF B-LINE, UNISTRUT OR POWERSTRUT.
2. 12GA, 304 STAINLESS STEEL CHANNEL, 1 5/8" X 1 5/8", B-LINE B22 SERIES OR EQUAL.
3. B-LINE B335 FOUR-HOLE ADJUSTABLE HINGE, FOUR LOCATIONS.
4. B-LINE B104 FOUR-HOLE CORNER ANGLE.
5. PROVIDE FOUR RED HEAD TRUBOLT TYPE 316 ANCHORS TO SECURE FRAME TO STRUCTURE, PROVIDE SSW1236, 1/2"X3 3/4" ANCHOR.
6. JUNCTION BOX SHALL HAVE POWER TERMINAL BLOCK AND TERMINAL STRIP AS REQUIRED FOR TERMINATION OF ACTUATOR CABLE CONDUCTORS. A CORD GRIP AND KELLUM GRIP CABLE SUPPORT SHALL BE PROVIDED FOR THE MOTOR CABLE, FIELD COORDINATE REQUIRED TERMINAL WITH EQUIPMENT PROVIDED. PROVIDE SINGLE EYE, CLOSED MESH KELLUM, FIELD COORDINATE WITH CABLE FURNISHED BY OTHERS.
7. STAINLESS STEEL CONDUIT FROM WITHIN CONCRETE TO JUNCTION BOX. PVC WITHIN CONCRETE. NO FITTINGS ALLOWED 18" OR LESS ABOVE TANK WALL.

7 120V VALVE ACTUATOR DISCONNECT DETAIL
E-1A N.T.S.



NOTES: JUNCTION BOX - FLUSH WITH FINISHED GRADE

- A. JUNCTION BOXES SHALL BE QUAZITE POLYMER CONCRETE TYPE "PG" OPEN BOTTOM, OR EQUIVALENT BY OLD CASTLE OR PENCEL.
- B. THE COVER SHALL BE TIER 22 RATED, LOGO - "ELECTRIC".
- C. BOX DIMENSIONS SHALL BE AS NOTED ON THE DRAWINGS.
- D. PROVIDE A BASE OF CRUSHED STONE, 12" DEEP AND EXTENDING 12" BEYOND THE BOX ON ALL SIDES.
- E. PROVIDE A CONCRETE SUPPORT AROUND THE BOX, 12" WIDE AND 12" DEEP, ALL SIDES.
- F. CONDUIT ENTRY SHALL BE THROUGH THE SIDE WALL AT THE BOTTOM BELOW THE CONCRETE OR UP THROUGH THE BOTTOM.
- G. FOR ALL CONDUCTORS: PROVIDE PERMANENT TAGS IDENTIFYING ALL CABLES.
- H. NO SPLICES ALLOWED IN THESE JUNCTION BOXES.

4 JUNCTION BOX - FLUSH WITH FINISHED GRADE
E-1A N.T.S.

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WATER POLLUTION
CONTROL PLANT

ELECTRICAL
DETAILS

SHEET: E-1A
FILE NO: 2013-36
PLOT DATE: September 29, 2023



- ## 1 SBR TANK JUNCTION BOX DETAIL

E-1B N. T. S.



- ## 2 DISCONNECT DETAIL

(E-1B) N. T. S.



3 POLE BASE DETAIL (VERTICAL FOOTING) - FLOOD LIGHTS

(E-1B) N. T. S.



E-1B) N. T. S.

LEGEND

- 1 POLE
2 GROUND LUG BOND POLE TO GROUND ROD
3 FINISHED GRADE OF PAVING
4 RACEWAY AND CONDUCTORS
5 3/4" x 10" GROUND ROD WITH EXOTHERMIC CONNECTION
6 REINFORCING STEEL STRUCTURE 4*8 VERTICAL
7 #4@12 RE-BAR TIES TO ANCHOR BOLTS
8 SONO-TUBE CONSTRUCTION WITH 1" CHAMFER
9 WEATHERPROOF WITH SEALING COMPOUND
10 1*6 CU. GROUND IN 1/2" PVC.

NOTES: POLE BASE DETAIL

- A. UNLESS NOTED, BASES SHALL BE INSTALLED ABOVE GRADE. FOR ABOVE GRADE BASE, INSTALL 30" ABOVE FINISHED GRADE OR PAVING. HAND RUB EXPOSED BASE TO SAND FINISH.
- B. ANCHOR BOLT COVER SHALL BE SECURED BY STAINLESS STEEL SCREWS.
- C. ANCHOR BOLTS SHALL BE PRE-FABRICATED AND FURNISHED BY THE POLE MANUFACTURER. ANCHOR BOLTS SHALL BE COORDINATED WITH AND TIED TO THE REINFORCING STEEL STRUCTURE.
- D. PACK HIGH STRENGTH GROUT BETWEEN POLE BASE AND FOUNDATION TO INSURE FULL CONTACT WITH FOOTING.
- E. WITH RESPECT TO THE 45' STEEL POLE AND LIGHT ASSEMBLIES, THIS DETAIL IS FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL FURNISH A STRUCTURAL DESIGN FOR THE 45' STEEL POLE FOUNDATIONS, STAMPED AND SIGNED BY A GEORGIA REGISTERED STRUCTURAL ENGINEER. COORDINATE WITH THE SOILS REPORT AND OTHER NECESSARY INFORMATION REQUIRED FOR THE BASE DESIGN.



(E-1B) N. T. S.

NOTES:

1. CONCRETE TO BE MINIMUM 3000 PSI AT 28 DAYS. (5 SACK) MAXIMUM AGGREGATE 3/4". TOP OF FOUNDATION TO BE TROWELED TO A FLAT AND LEVEL SURFACE. AVOID EXCESSIVE TROWELING. CONCRETE TO SET A MINIMUM OF 72 HOURS BEFORE POLE INSTALLATION.

1 OVERALL ELECTRICAL SITE PLAN WITH SITE LIGHTING
E-2 SCALE: 1" = 30'

NOTES:

- EXTEND AREA LIGHTING CIRCUITS THROUGH LIGHTING CONTACTOR IN THE ELECTRICAL BUILDING.
- THE EXISTING CONTROL & MAINTENANCE BUILDING SHALL REMAIN FOR REUSE.
 - THE EXISTING LIGHTS SHALL BE REPLACED.
 - THREE TYPE A IN THE OFFICE.
 - FIVE TYPE A IN THE SHOP AREA.
 - TWO TYPE A TO REPLACE ONE 8' INDUSTRIAL.
 - ONE TYPE G IN THE LAVATORY.
 - THREE TYPE B TO REPLACE EXISTING WALL PACKS.
 - RECONNECT ALL EXISTING CIRCUITS AND SWITCHING.
 - FIELD COORDINATE ALL WORK; VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BEDS.
- THE EXISTING CONTROL BUILDING SERVICE SHALL BE REPLACED WITH A FEEDER FROM THE NEW POWER DISTRIBUTION SYSTEM.
 - THE EXISTING TREATMENT PLANT ELECTRICAL SERVICE SHALL BE MAINTAINED UNTIL THE NEW PLANT IS OPERATIONAL AND CERTIFIED. COORDINATE WITH THE ELECTRICAL UTILITY.
 - DISCONNECT THE EXISTING SERVICE DROP FROM THE WEATHERHEAD.
 - REMOVE THE SERVICE MAST CONDUITS, ROOF PENETRATION AND SERVICE CONDUCTORS.
 - REPAIR THE ROOF TO SEAL THE PENETRATIONS USING IDENTICAL MATERIALS AND METHODS AS THE EXISTING ROOF INSTALLATION.
 - EXTEND NEW FEEDER FROM THE DISTRIBUTION SWITCHBOARD TO THE CONTROL BUILDING.
 - THE FEEDER CONDUITS SHALL RISE ALONG THE BUILDING EXTERIOR AND PENETRATE ABOVE THE EXISTING MCC.
 - PROVIDE MOGUL TYPE LB FITTINGS AT BUILDING EXTERIOR WALL PENETRATION.
 - PROVIDE PULL BOX ON TOP OF MCC AS REQUIRED.
 - REMOVE BONDING JUMPER FROM NEUTRAL BUS IN THE EXISTING MCC.
 - RECONNECT THE GROUNDING ELECTRODE CONDUCTOR TO THE GROUND BUS; FURNISH NEW MECHANICAL LUG AS REQUIRED.

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WATER POLLUTION
CONTROL PLANT

Overall Electrical
Site Plan with Site
Lighting

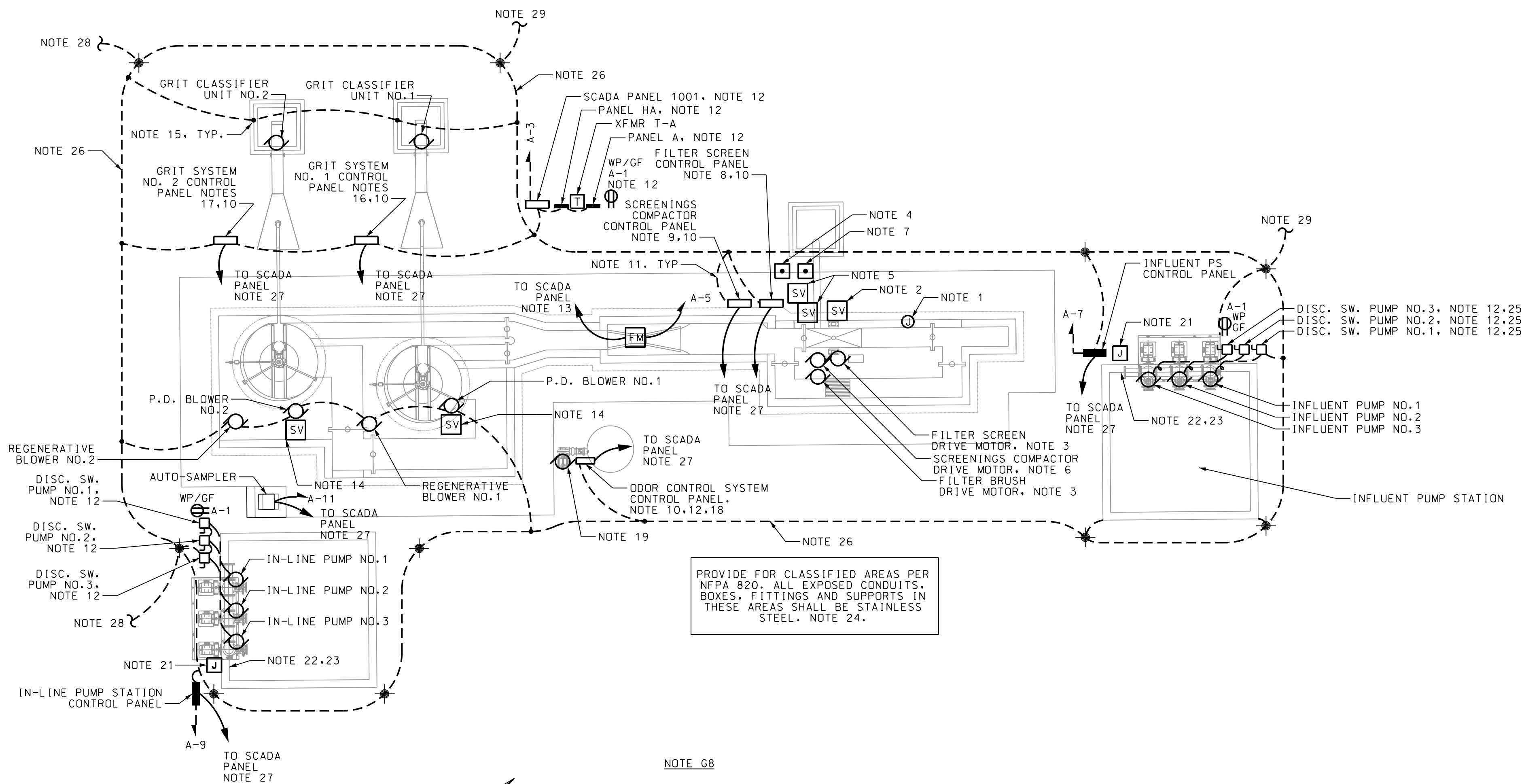
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FILE NO: 2013-36

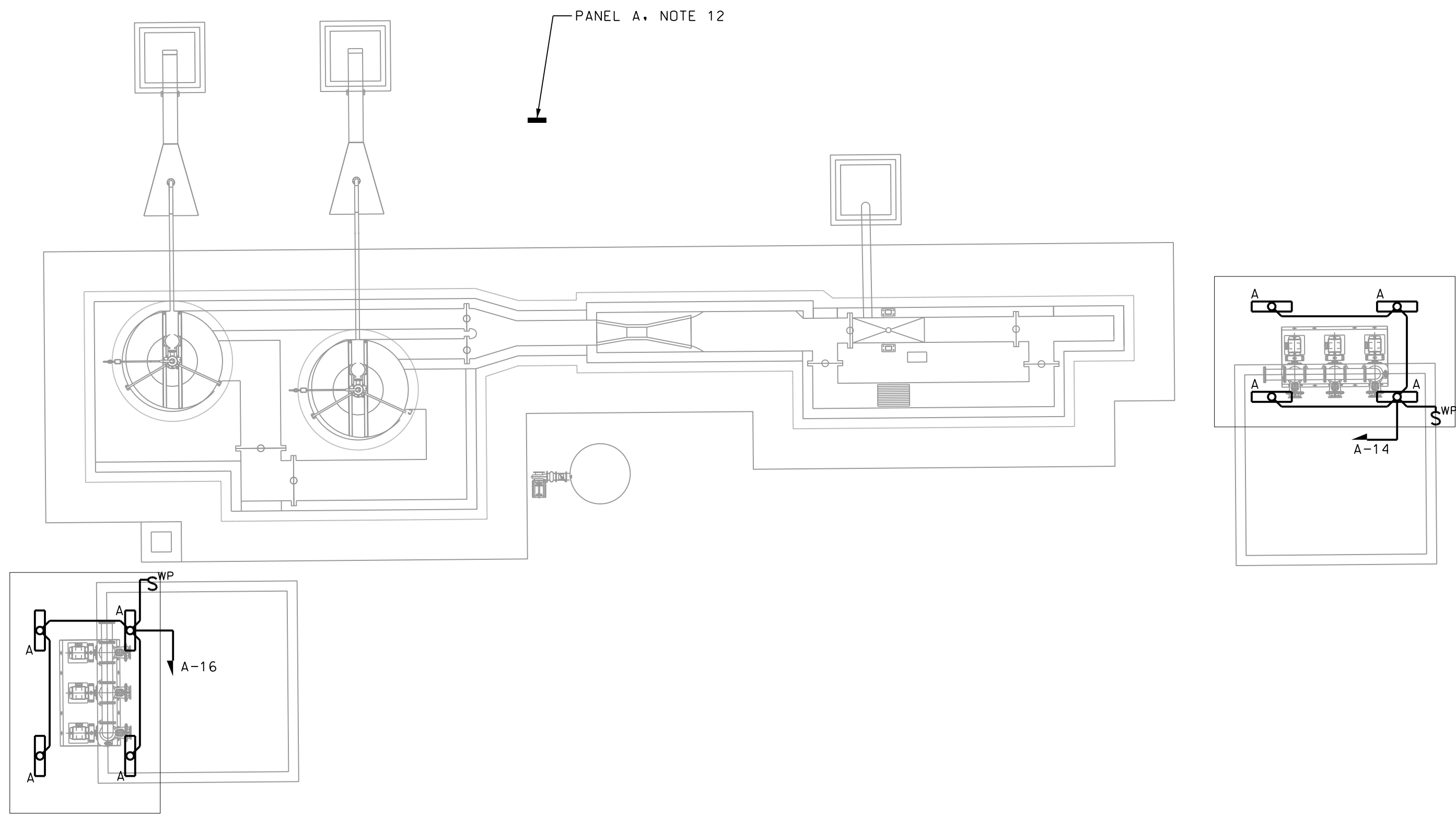
PLOT DATE: September 29, 2023



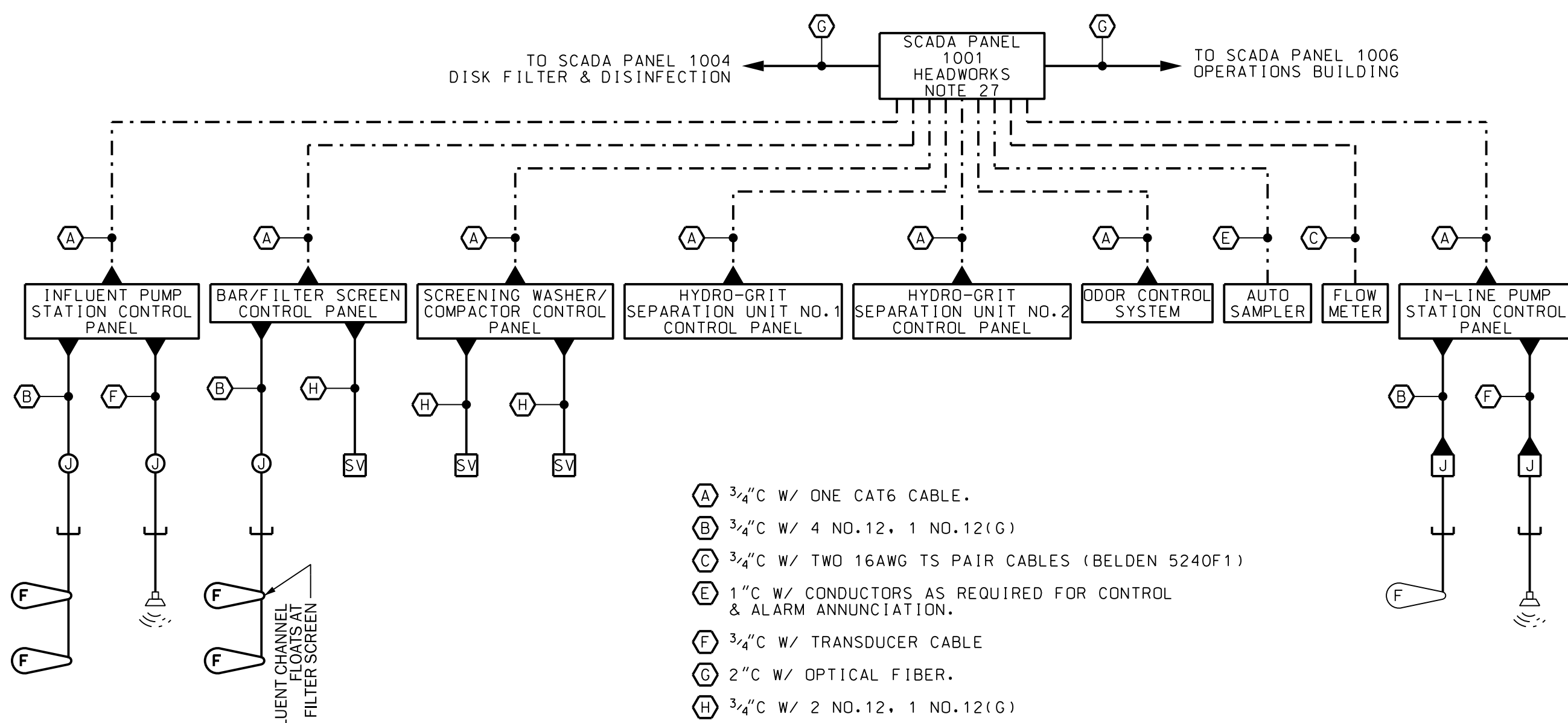
109 PARK OF COMMERCE DRIVE, SUITE 6
SAVANNAH, GEORGIA 31405 (912)238-2400



1 POWER PLAN - HEAD WORKS
SCALE: 1" = 10' - 0"



2 LIGHTING PLAN - HEAD WORKS
SCALE: 1" = 10' - 0"



3 SCADA RISER - HEADWORKS
SCALE: NONE

NOTES:

1. FILTER SCREEN FLOAT SWITCH JUNCTION BOX CONNECTION. FLOAT SWITCH PROVIDED WITH EQUIPMENT. FIELD COORDINATE LOCATION AND CONNECTION TO FLOAT. PROVIDE JUNCTION BOX AND NON-METALLIC CORD GRIP FOR TERMINATION OF FLOAT CABLE INTO JUNCTION BOX.
2. FILTER SCREEN ULTRA WASH SOLENOID VALVE. PROVIDED AND FIELD INSTALLED BY OTHERS. ELECTRICAL CONNECTION BY DIV.16. COORDINATE WITH EQUIPMENT PROVIDED.
3. FILTER SCREEN DRIVE MOTORS. FURNISHED WITH EQUIPMENT. FIELD INSTALLED BY OTHERS. FIELD COORDINATE CONNECTION TO BARSSCREEN CONTROL PANEL.
4. FILTER SCREEN DRIVE EMERGENCY STOP. FURNISHED WITH EQUIPMENT. FIELD INSTALLED AND WIRED BY DIV.16. FIELD COORDINATE MOUNTING LOCATIONS.
5. SCREENINGS COMPACTOR SOLENOID VALVES. FURNISHED WITH EQUIPMENT. FIELD INSTALLED BY OTHERS. WIRED BY DIV.16. FIELD COORDINATE MOUNTING LOCATIONS.
6. SCREENINGS COMPACTOR DRIVE MOTOR. FURNISHED WITH EQUIPMENT. FIELD INSTALLED BY OTHERS. FIELD COORDINATE CONNECTION TO SCREENINGS COMPACTOR CONTROL PANEL.
7. SCREENINGS COMPACTOR DRIVE EMERGENCY STOP. FURNISHED WITH EQUIPMENT. FIELD INSTALLED AND WIRED BY DIV.16. FIELD COORDINATE MOUNTING LOCATION.
8. FILTER SCREEN CONTROL PANEL. FURNISHED WITH EQUIPMENT. FIELD COORDINATE LOCATION WITH EQUIPMENT AND OTHER TRADES. MOUNT ON 304 STAINLESS STEEL CHANNEL FRAME. REFER TO ONE-LINE DIAGRAM FOR ELECTRICAL CONNECTIONS. REFER TO SCADA RISER FOR COMMUNICATIONS CONNECTIONS. REFER TO 1/E-5A FOR FIELD CONNECTIONS.
9. SCREENINGS COMPACTOR CONTROL. FURNISHED WITH EQUIPMENT. FIELD COORDINATE LOCATION WITH EQUIPMENT AND OTHER TRADES. MOUNT ON 304 STAINLESS STEEL CHANNEL FRAME. REFER TO ONE-LINE DIAGRAM FOR ELECTRICAL CONNECTIONS. REFER TO SCADA RISER FOR COMMUNICATIONS CONNECTIONS.
10. SCADA PANEL 1001. MOUNT ON 304 STAINLESS STEEL CHANNEL EQUIPMENT FRAME. COMMUNICATIONS FROM FILTER SCREEN, SCREENINGS COMPACTOR, ODOOR AND GRIT SEPARATION CONTROL PANELS. INFLUENT FLOW METER AND WET WELL LEVEL SENSORS SHALL BE EXTENDED TO THIS PANEL FOR SIGNAL COMMUNICATION TO CONTROLS. REFER TO SCADA RISER - HEADWORKS. 3/E-3.
11. GROUND CONNECTION FROM EQUIPMENT TO RING. 3/4" SCH.80 PVC W/1NO.6 COPPER. TYPICAL. CONNECT TO EQUIPMENT WITH IRREVERSIBLE GROUNDING COMPRESSION TERMINAL (BURNDY YG4282N OR EQUAL FOR HYPRESS GROUNDING TOOL). CONNECT TO 1/2" GROUND RING WITH EXOTHERMIC WELD.
12. MOUNT EQUIPMENT ON 304 STAINLESS STEEL CHANNEL FRAME. FIELD COORDINATE LOCATION WITH CIVIL DRAWINGS AND OTHER TRADES. REFER TO DETAIL 2/E-1A.
13. 3/4" C W/ONE BELDEN 5240F1 CABLE. EXTEND TO SCADA PANEL 1001. NOTE 10.
14. GRIT FLUIDIZING LINE SOLENOID VALVE. FIELD INSTALLED BY OTHERS. ELECTRICAL CONNECTION BY DIV.16. COORDINATE WITH EQUIPMENT PROVIDED.
15. MAKE GROUND CONNECTION TO SUPPORT LEG OF GRIT CLASSIFIER SCREW.
16. GRIT SEPARATION UNIT NO.1 CONTROL PANEL. MOUNT ON 304 STAINLESS STEEL CHANNEL FRAME. FIELD COORDINATE LOCATION WITH CIVIL DRAWINGS AND OTHER TRADES. SEE 1/E-5 & 3/E-5A.
17. GRIT SEPARATION UNIT NO.2 CONTROL PANEL. MOUNT ON 304 STAINLESS STEEL CHANNEL FRAME. FIELD COORDINATE LOCATION WITH CIVIL DRAWINGS AND OTHER TRADES. SEE 3/E-5A.
18. ODOOR CONTROL SYSTEM CONTROL PANEL. REFER TO 2/E-5A. COORDINATE ALL REQUIRED FIELD CONNECTIONS WITH EQUIPMENT SUPPLIED: PROVIDE CONNECTIONS FOR WATER CONTROL PANEL, MOTORIZED VALVES AND BLOWER POWERED FROM CONTROL PANEL. FIELD COORDINATE LOCATIONS OF THESE ITEMS.
19. ODOOR CONTROL SYSTEM SUPPLY FAN.
20. REFER TO SHEET E-5A FOR RISER DIAGRAMS OF EACH SYSTEM AND REQUIRED FIELD CONNECTIONS.
21. JUNCTION BOX CONNECTION FOR FLOAT SWITCH AND LEVEL TRANSDUCER. FIELD COORDINATE LOCATION.
22. PROVIDE STAINLESS STEEL CABLE SUPPORT IN WET WELL FOR FLOAT AND TRANSDUCER CABLES.
23. PROVIDE KELLUM GRIP/CABLE SUPPORT FOR FLOAT AND TRANSDUCER/PROBE CABLES. KELLUM GRIP/CABLE SUPPORT SHALL BE HEAVY DUTY. ARIMID FIBER. CLOSED MESH. SINGLE EYE.
24. LOCATE CONTROL PANELS AND BOXES TEN (10) FEET FROM INFLUENT CHANNELS. MOUNT ALL EQUIPMENT 18" ABOVE GRADE AND/OR STRUCTURE. NO FITTINGS SHALL BE PLACED WITHIN 18" OF GRADE OR STRUCTURE.
25. THE DISCONNECT BETWEEN THE VARIABLE FREQUENCY DRIVE AND THE MOTOR SHALL BE EQUIPPED WITH A NORMALLY OPEN AUXILIARY CONTACT. THE AUXILIARY CONTACT SHALL BE WIRED INTO THE CONTROL VOLTAGE STOP/START CIRCUIT ON THE DRIVE. THE AUXILIARY CONTACT SHALL BE EARLY BREAK, SO THAT THE START STOP CIRCUIT DROPS OUT BEFORE THE DISCONNECT POWER CIRCUIT OPENS, AND LATE MAKE SO THAT THE DISCONNECT POWER CIRCUIT CLOSURES BEFORE THE START CIRCUIT ON THE DRIVE IS CLOSED.
26. NO. 1/2" CU GROUND. 30" BELOW GRADE. PROVIDE WARNING TAPE 12" BELOW GRADE.
27. REFER TO SCADA RISER, 3/E3, AND RISER DIAGRAMS, SHEET E-5A. PANEL SCHEDULES SHEET E-6A.
28. CONNECT TO GROUND RING AROUND SBR TANKS.
29. CONNECT TO GROUND RING AROUND CONTROL BUILDING.

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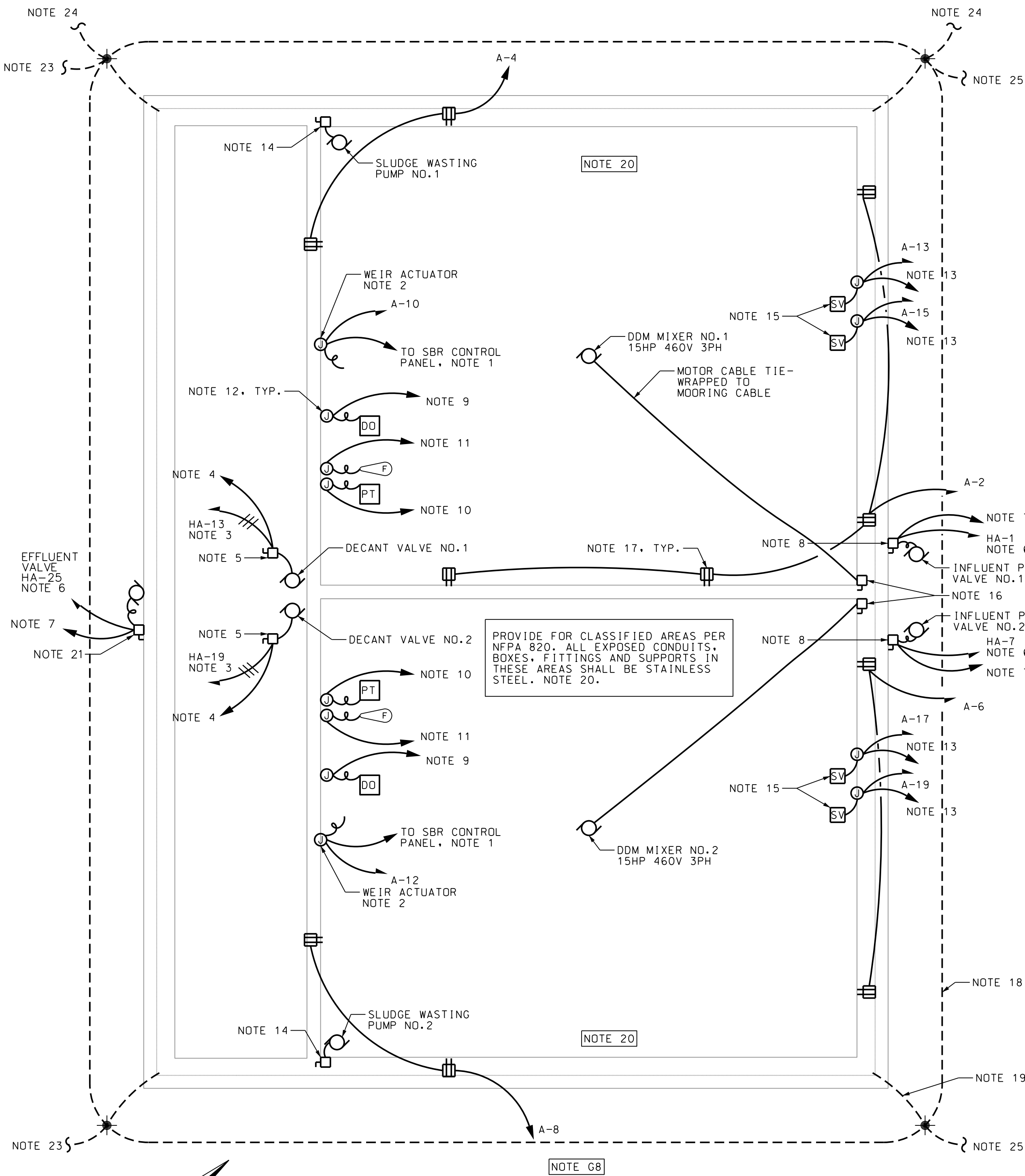
WATER POLLUTION
CONTROL PLANT

Electrical Plan
Influent & In-Line
Pump Stations,
Headworks

SHEET: E-3
FILE NO: 2013-36
PLOT DATE: September 29, 2023

109 PARK OF COMMERCE DRIVE, SUITE 6
SAVANNAH, GEORGIA 31405 (912)238-2400

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1 SBR BASIN PLAN - ELECTRICAL
E-3A SCALE: 1" = 10'

NOTES:

- DECANTER WEIR ACTUATOR CONTROL CIRCUIT. EXTEND 1" C W/3NO.12(OPEN/CLOSE), 4NO.14(LS OPEN/CLOSE), 2NO.14(SPARE), 1NO.12(G) TO SBR CONTROL PANEL. EXTEND 3/4" C W/2NO.12, 1NO.12(G) FROM THE SBR CONTROL PANEL TO THE BRANCH CIRCUIT PANEL AND CIRCUIT INDICATED.
- DECANTER WEIR ACTUATOR JUNCTION BOX. REFER TO DETAIL 1/E-1B FOR MOUNTING. PROVIDE TERMINAL STRIP FOR TERMINATION OF MULTI-CONDUCTOR CABLE FROM ACTUATOR. PROVIDE CORD GRIP AND STAINLESS STEEL SUPPORT KELLUM FOR CABLE.
- DECANT FLOW CONTROL VALVE POWER CIRCUIT. EXTEND POWER CIRCUIT FROM JUNCTION BOX THROUGH DISCONNECT SWITCH (30A/3P/4X SS/NF) AND TO BRANCH CIRCUIT PANEL AND CIRCUIT INDICATED. PROVIDE 3/4" C W/3NO.12, 1NO.12(G) POWER CIRCUIT.
- DECANT FLOW CONTROL VALVE CONTROL CIRCUIT. EXTEND CONTROL CONDUCTORS FROM JUNCTION BOX TO SBR CONTROL PANEL. PROVIDE 1 1/4" C W/22NO.14, 1NO.14(G).
- DECANT FLOW CONTROL VALVE JUNCTION BOX AND DISCONNECT SWITCH. REFER TO DETAIL 6/E-1A FOR MOUNTING. PROVIDE TERMINAL STRIP FOR TERMINATION OF MULTI-CONDUCTOR CABLE FROM VALVE ACTUATOR. PROVIDE CORD GRIP AND STAINLESS STEEL SUPPORT KELLUM FOR CABLE.
- SBR INFLUENT PLUG VALVE POWER CIRCUIT. EXTEND POWER CIRCUIT FROM JUNCTION BOX THROUGH DISCONNECT SWITCH (30A/3P/4X SS/NF) AND TO BRANCH CIRCUIT PANEL AND CIRCUIT INDICATED. PROVIDE 3/4" C W/3NO.10, 1NO.10(G) POWER CIRCUIT.
- SBR INFLUENT/EFFLUENT PLUG VALVE CONTROL CIRCUIT. EXTEND CONTROL CONDUCTORS FROM JUNCTION BOX TO SBR CONTROL PANEL. PROVIDE 1 1/4" C W/22NO.14, 1NO.14(G).
- SBR INFLUENT/EFFLUENT PLUG VALVE JUNCTION BOX AND DISCONNECT SWITCH. REFER TO DETAIL 6/E-1A FOR MOUNTING. PROVIDE TERMINAL STRIP FOR TERMINATION OF MULTI-CONDUCTOR CABLE FROM VALVE ACTUATOR. PROVIDE CORD GRIP AND STAINLESS STEEL SUPPORT KELLUM FOR CABLE.
- SHIELDED CABLE TO SBR CONTROL PANEL FOR D.O. SENSOR. EXTEND 3/4" C W/1 BELDEN 5240F1 (16AWG T.S. PR).
- SHIELDED CABLE TO SBR CONTROL PANEL FOR PRESSURE TRANSDUCER. EXTEND 3/4" C W/1 BELDEN 5240F1 (16AWG T.S. PR).
- TO SBR CONTROL PANEL FOR FLOAT SWITCH. EXTEND 3/4" C W/2NO.14, 1NO.14(G).
- JUNCTION BOX MOUNTED TO TOP OF WALL. REFER TO DETAIL 1/E-1B FOR MOUNTING. PROVIDE TERMINAL STRIP FOR TERMINATION OF CONDUCTORS AND/OR CABLE AS REQUIRED. PROVIDE CORD GRIP AND STAINLESS STEEL SUPPORT KELLUM FOR CABLE. REFER TO DETAIL.
- TO SBR CONTROL PANEL FOR CHEMICAL SOLENOID VALVES. EXTEND 3/4" C W/4NO.14, 1NO.14(G).
- SBR SLUDGE PUMP DISCONNECT SWITCH. REFER TO DETAIL 2/E-1B FOR MOUNTING. PROVIDE CORD GRIP AND STAINLESS STEEL SUPPORT KELLUM FOR CABLE.
- JUNCTION BOX AND CHEMICAL FEED SOLENOID VALVE FOR CAUSTIC OR BASE. COORDINATE WITH AQUA AEROBICS FOR LOCATION.
- SBR DDM MIXER DISCONNECT SWITCH. REFER TO DETAIL 2/E-1B FOR MOUNTING. PROVIDE CORD GRIP AND STAINLESS STEEL SUPPORT KELLUM FOR CABLE. PROVIDE CABLE SLACK AS REQUIRED.
- WALL MOUNTED RECEPTACLE. TYPICAL. REFER TO DETAIL 3/E-1A FOR MOUNTING. FIELD COORDINATE LOCATION WITH BUBBLER HOIST SOCKET.
- No. % CU GROUND, 30" BELOW GRADE. PROVIDE WARNING TAPE 12" BELOW GRADE.
- BONDING JUMPER. 3/4" PVC SCH 80 W/ NO. 1 CU. PROVIDE HYDRAULIC COMPRESSION LUG ON EQUIPMENT OR PIPEWORK. PROVIDE EXOTHERMIC WELD TO % CU. GROUND.
- MOUNT ALL EQUIPMENT 18" ABOVE STRUCTURE. NO FITTINGS SHALL BE PLACED WITHIN 18" OF STRUCTURE.
- SBR EFFLUENT VALVE JUNCTION BOX AND DISCONNECT SWITCH. REFER TO DETAIL 6/E-1A FOR MOUNTING. PROVIDE TERMINAL STRIP FOR TERMINATION OF MULTI-CONDUCTOR CABLE FROM VALVE ACTUATOR. PROVIDE CORD GRIP AND STAINLESS STEEL SUPPORT KELLUM FOR CABLE.
- CHEMICAL FEED CONTROL CIRCUIT. EXTEND 3/4" C W/ 2 NO.12, 1 NO.12(G) FROM THE JUNCTION BOX TO THE SBR (AQUA AEROBICS) CONTROL PANEL.
- CONNECT TO GROUND RING AROUND THE DISK FILTERS AND UV SYSTEM.
- CONNECT TO GROUND RING AROUND THE POWERHOUSE, GENERATOR, BLOWER BLDG AND CHEMICAL BUILDING.
- CONNECT TO GROUND RING AROUND THE INFLUENT PS/IN-LINE PS/GRIT REMOVAL EQUIPMENT.

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18 M.E. SACK ENGINEERING 80

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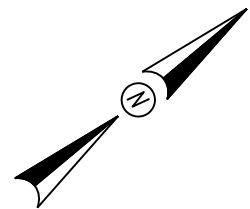
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WATER POLLUTION
CONTROL PLANT

SBR BASIN
ELECTRICAL
PLAN

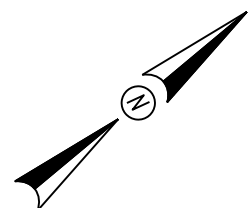
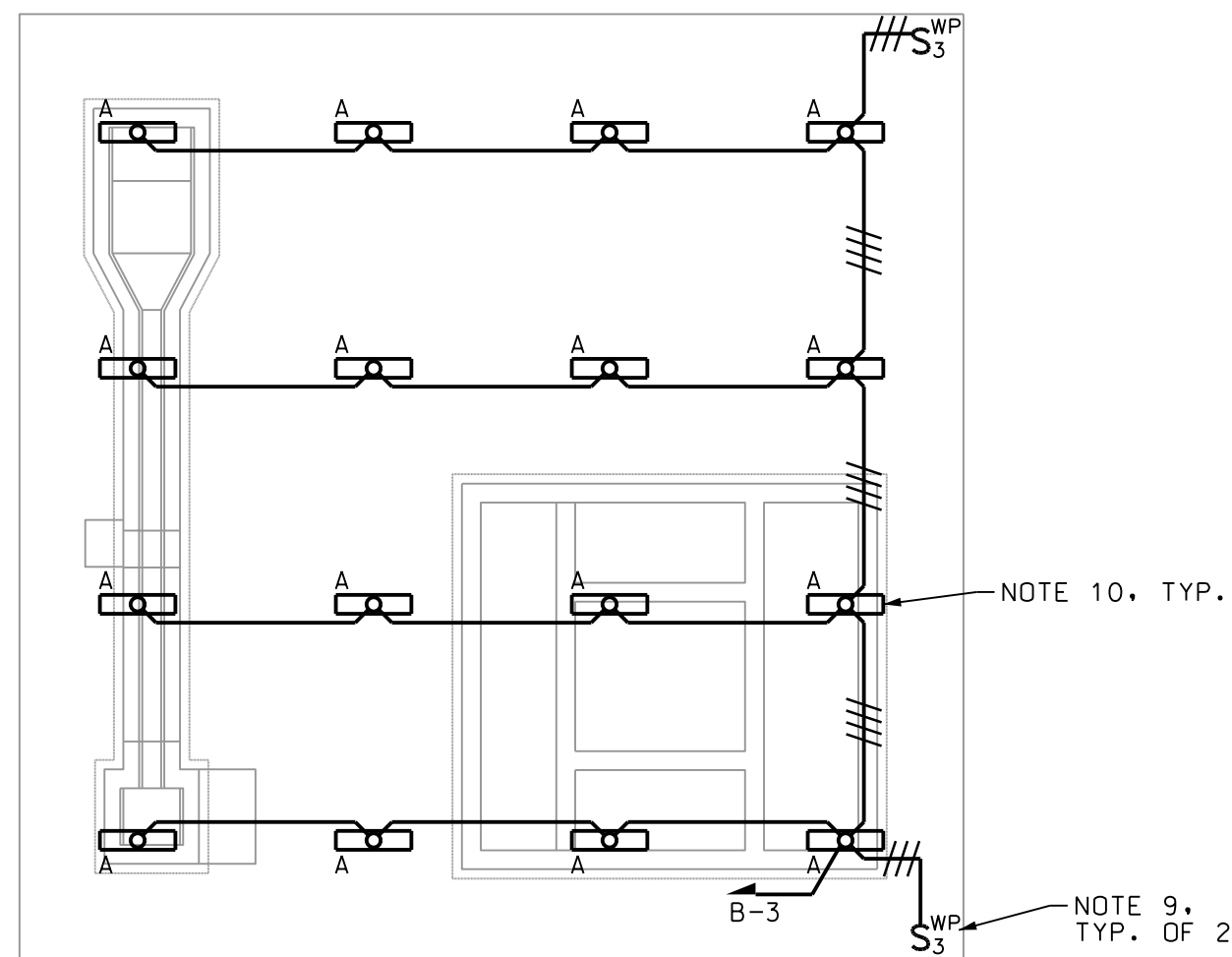
SHEET: E-3A
FILE NO: 2013-36
PLOT DATE: September 29, 2023



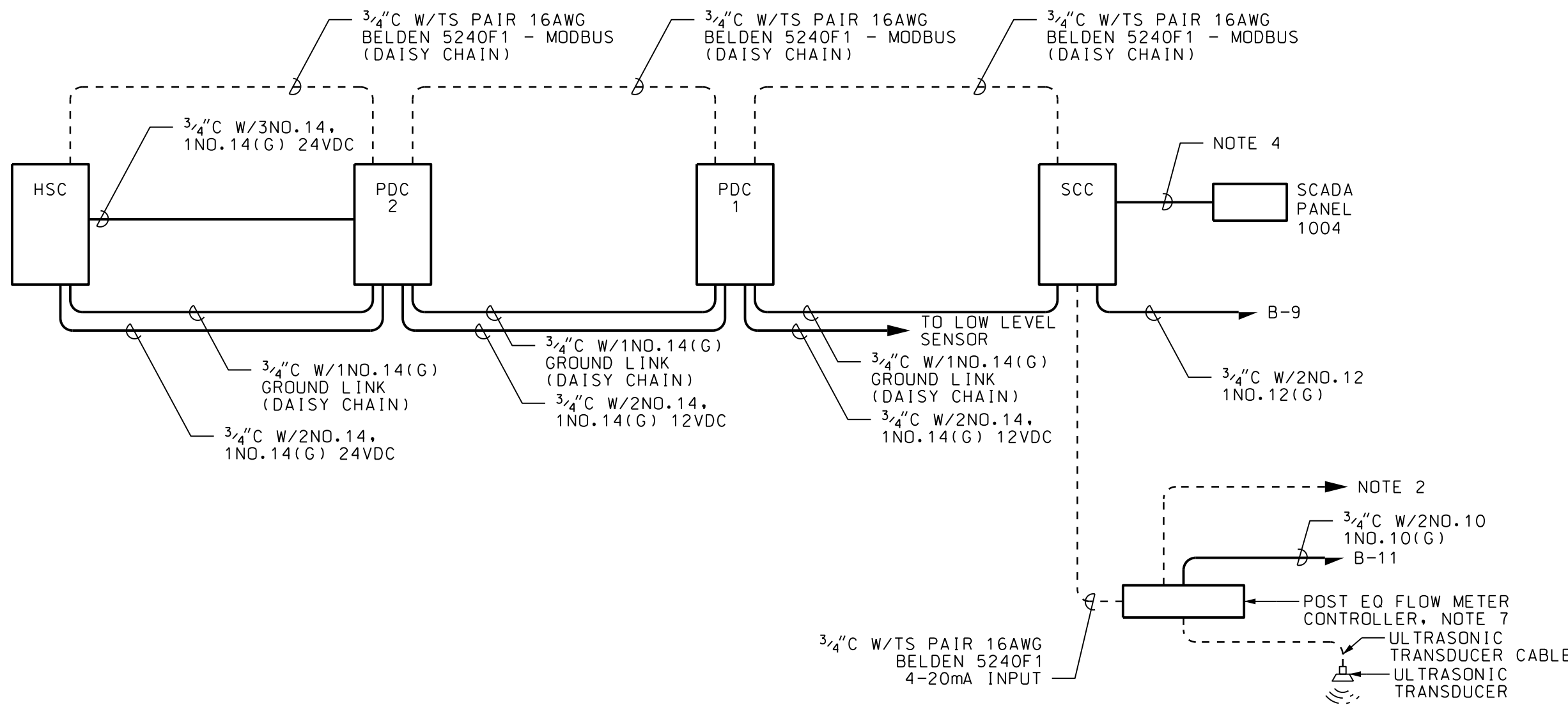
1 FILTRATION & DISINFECTION - POWER PLAN
E-3B SCALE: 1" = 10'

KEY NOTES:

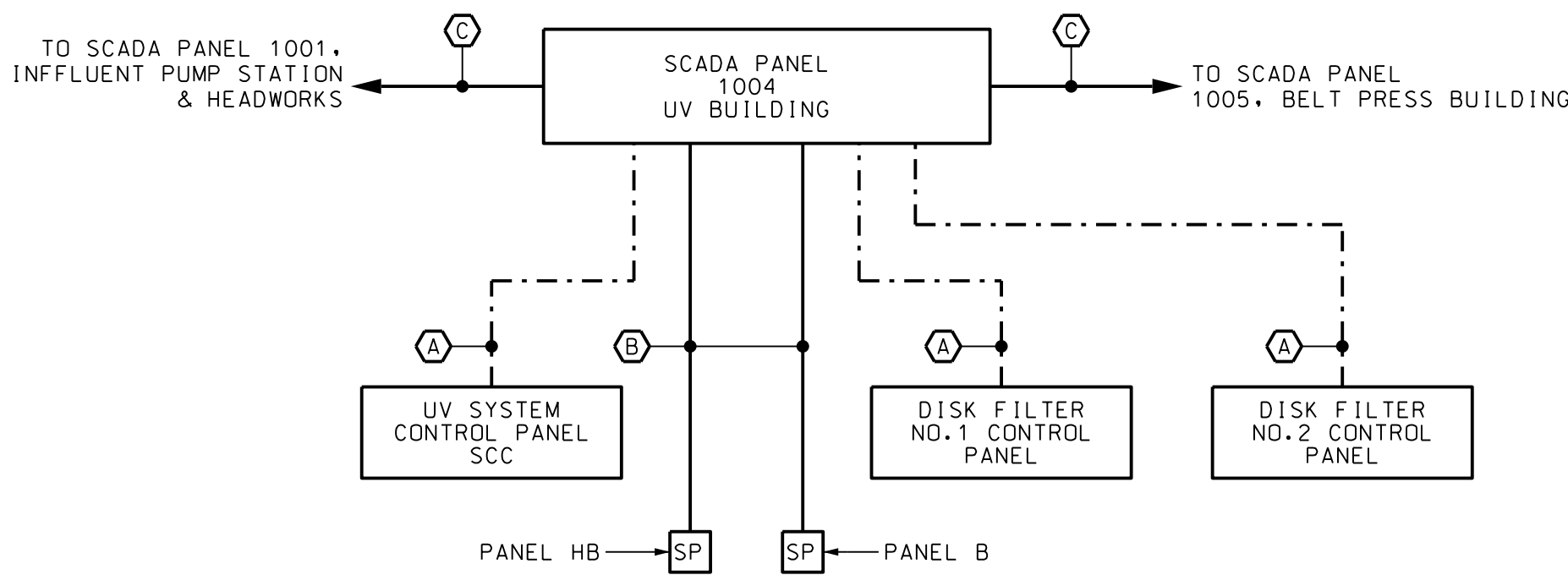
- 1 LOW LEVEL SENSOR CONNECTION.
- 2 UV POWER DISTRIBUTION CENTER (PDC) NO.1.
- 3 UV POWER DISTRIBUTION CENTER (PDC) NO.2.
- 4 SYSTEM CONTROL CENTER (SCC).
- 5 HYDRAULIC SYSTEM CENTER (HSC).



3 FILTRATION & DISINFECTION - LIGHTING PLAN
E-3B SCALE: 1" = 10'



2 ONE-LINE DIAGRAM - U.V. CONTROL & COMMUNICATIONS
E-3B NOT TO SCALE



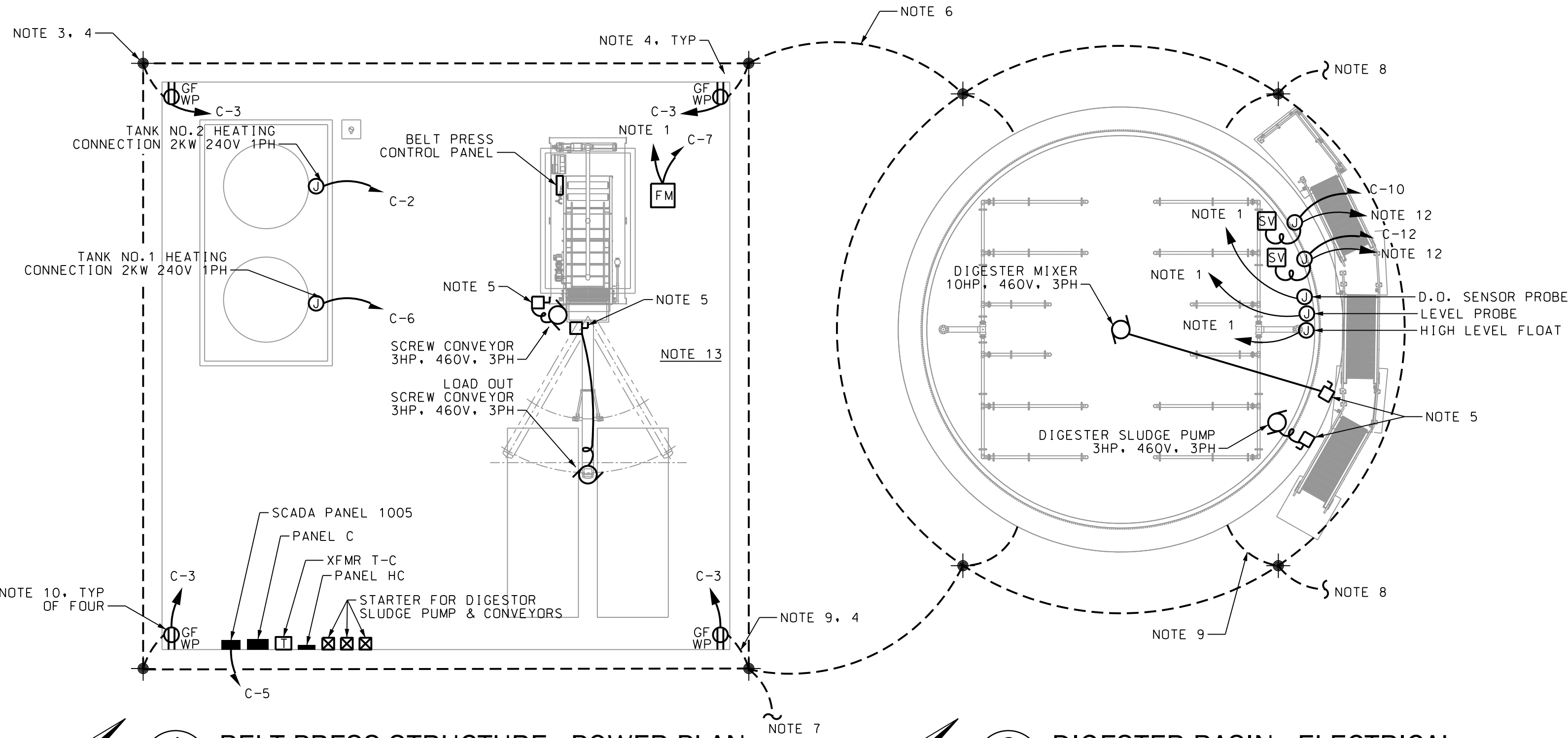
- A 3/4" C W/ TWO CAT6 CABLES.
B 3/4" C W/ 2 NO.14, 1 NO.14(G)
C 2" C W/ OPTICAL FIBER.
D 1" C W/ CONDUCTORS AS REQUIRED FOR CONTROL & ALARM ANNUNCIATION

4 SCADA RISER - UV BUILDING
E-3B SCALE: NONE

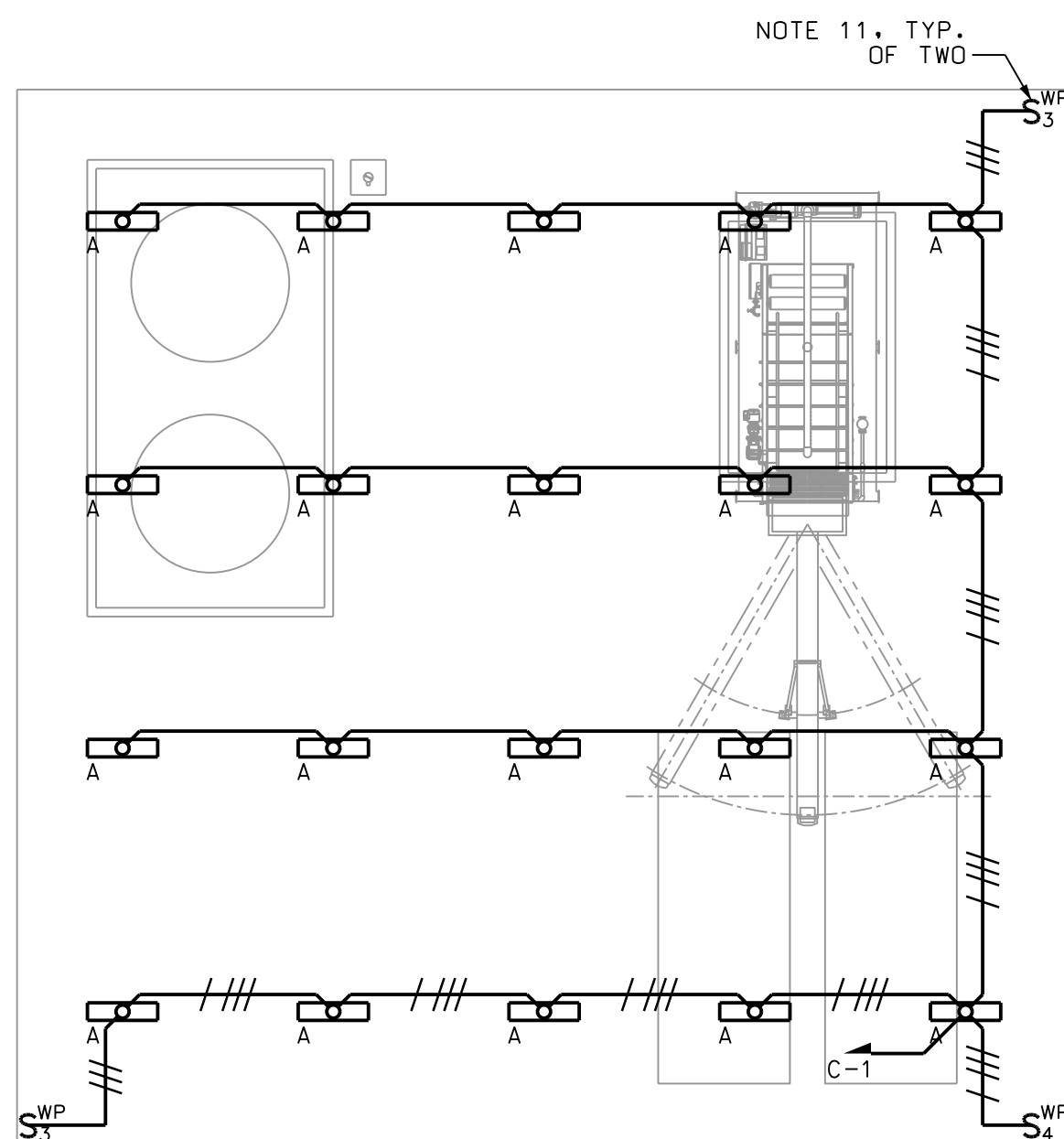
NOTES:

1. FIELD COORDINATE ALL REQUIRED ELECTRICAL CONNECTIONS WITH THE EQUIPMENT PROVIDED AND WITH THE OTHER TRADES.
2. EXTEND 1" C W/TWO BELDEN 5240F1 CABLES (18AWG T.S. PAIR) TO THE POST EQUALIZATION SCADA PANEL (SCADA PANEL NO.3) LOCATED AT THE UV SHELTER.
3. BONDING JUMPER, 3/4" PVC SCH 80 W/ NO. 1 CU. PROVIDE HYDRAULIC COMPRESSION LUG ON EQUIPMENT OR PIPEWORK. PROVIDE EXOTHERMIC WELD TO 4/0 CU. GROUND.
4. 1" C W/1NO.14, 1NO.14(G) TO SCADA PANEL 1004.
5. NO. 4/0 CU GROUND, 30" BELOW GRADE. PROVIDE WARNING TAPE 12" BELOW GRADE.
6. WEATHERPROOF NEMA 4X STAINLESS STEEL ENCLOSED MOTOR RATED SWITCH. PROVIDE ARROW HART AH7810XC-00S OR APPROVED EQUAL.
7. FIELD COORDINATE LOCATION OF POST EO FLOWMETER.
8. MOUNT RECEPTACLES ON STRUCTURAL COLUMNS.
9. MOUNT LIGHT SWITCHES ON STRUCTURAL COLUMNS.
10. FIELD COORDINATE MOUNTING OF LIGHTS WITH STRUCTURE. SUSPEND FIXTURES FROM PURLINGS. FIXTURE ELEVATION SHALL BE ABOVE STRUCTURAL BEAMS (WITHIN WEB).
11. 3/4" C W/TWO CAT6 CABLES TO SCADA.
12. CONNECT TO GROUND RING AROUND THE SBR BASIN STRUCTURE.
13. CONNECT TO THE GROUND RING AROUND THE DIGESTER AND BELT PRESS STRUCTURES.

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COUNTY: CHARLTON COUNTY	
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WATER POLLUTION CONTROL PLANT	
FILTRATION & DISINFECTION - ELECTRICAL PLAN	
SHEET: E-3B	
FILE NO: 2013-36	
PLOT DATE: September 29, 2023	

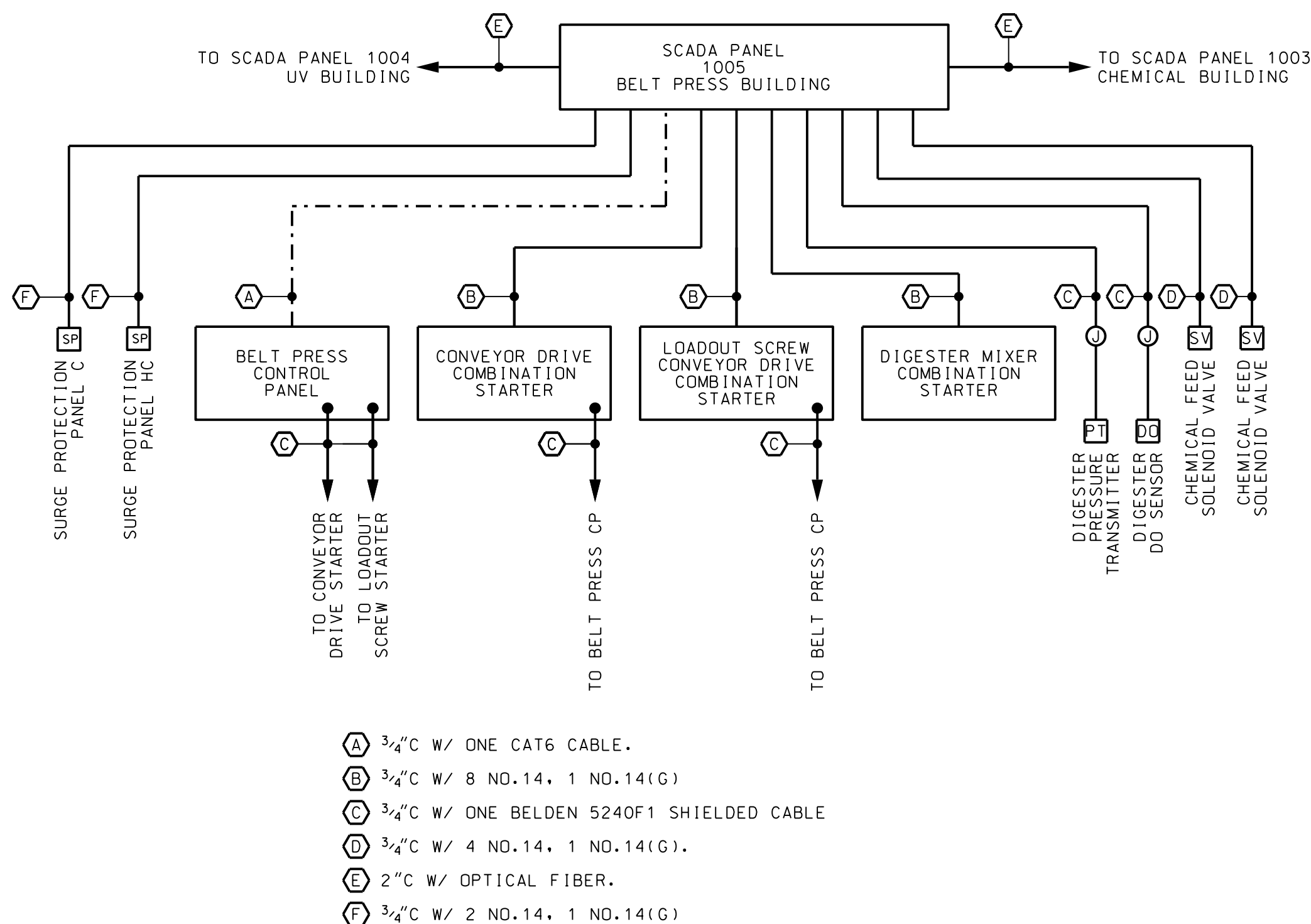


1 BELT PRESS STRUCTURE - POWER PLAN
E-3C SCALE: 1" = 10' - 0"



2 BELT PRESS STRUCTURE - LIGHTING PLAN
E-3C SCALE: 1" = 10' - 0"

3 DIGESTER BASIN - ELECTRICAL
E-3C SCALE: 1" = 10' - 0"



4 SCADA RISER - BELT PRESS STRUCTURE
E-3C SCALE: NONE

NOTES:

1. EXTEND 3/4" C W/ ONE BELDEN 5240F1 CABLE TO LOCAL IN-PLANT SCADA PANEL 1005.
2. START/STOP PUSH-BUTTON FOR ADJACENT MOTOR. EXTEND 3/4" C W/ 3 No 14, 1 No 14(G) TO STARTER SERVING MOTOR.
3. DRIVE GROUND ROD IN THIS AREA.
4. CONNECT GROUND RODS TO BUILDING STEEL COLUMNS AT CORNERS OF STRUCTURE.
5. MOUNT DISCONNECT SWITCH ON EQUIPMENT FRAME. REFER TO DETAIL 2/E-1A.
6. NO. 6 CU GROUND, 30" BELOW GRADE. PROVIDE WARNING TAPE 12" BELOW GRADE.
7. CONNECT TO THE GROUND RING AROUND THE FILTRATION & DISINFECTION STRUCTURE.
8. CONNECT TO THE GROUND RING AROUND THE CHEMICAL FEED BUILDING.
9. BONDING JUMPER, 3/4" PVC SCH 80 W/ 1 No. 1 CU. PROVIDE HYDRAULIC COMPRESSION LUG ON EQUIPMENT OR PIPEWORK. PROVIDE EXOTHERMIC WELD TO 6 CU. GROUND.
10. MOUNT RECEPTACLES ON STRUCTURAL COLUMNS.
11. MOUNT LIGHT SWITCHES ON STRUCTURAL COLUMNS.
12. TO SCADA PANEL 1005 FOR CHEMICAL FEED SOLENOID VALVES.
13. CONNECT ALL CONTROLS AND SAFETY INTERLOCKS ON CONVEYORS.

REVISIONS:

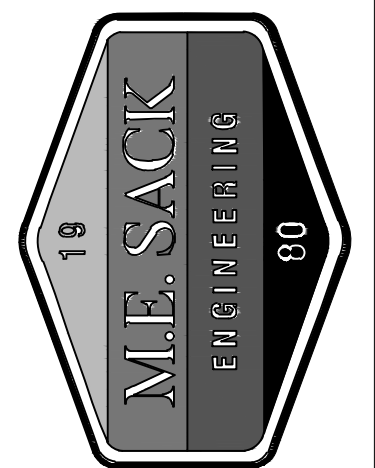
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WATER POLLUTION
CONTROL PLANT

Digester & Belt
Press Building
Electrical Plans

SHEET: E-3C

FILE NO: 2013-36


PLOT DATE: September 29, 2023



109 PARK OF COMMERCE DRIVE, SUITE 6
SAVANNAH, GEORGIA 31405 (912)238-2400

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GEORGIA
REGISTERED
No. 032192
PROFESSIONAL
29 Sept
2023
ENGINEER
CHARLES B. COBB

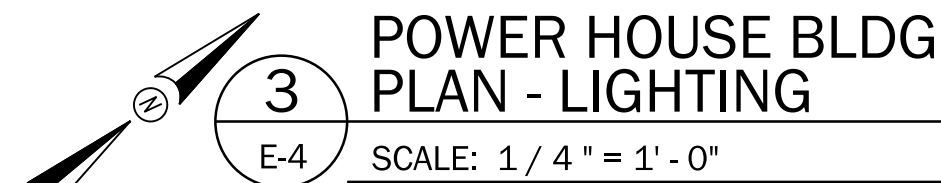


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WATER POLLUTION CONTROL PLANT

PLOT DATE: September 29, 2023



- ## NOTES:
1. EXTEND PHOTO CELL CONTROL THROUGH 'PHOTO' POSITION ON EXTERIOR LIGHTING CONTROL SWITCH.
 2. EXTEND THROUGH 3-POSITION EXTERIOR LIGHTING CONTROL SWITCH.
 3. EXTERIOR LIGHTING CONTROL SWITCH: THREE POSITION, MAINTAINED CONTACT, CENTER OFF. LABEL SWITCH POSITIONS: UP-PHOTO, CENTER-OFF, DOWN-MANUAL ON. PROVIDE COOPER 2225 OR EQUAL BY HUBBELL OR LEGRAND.
 4. FOUR POLE LIGHTING CONTACTOR IN NEMA ONE ENCLOSURE WITH H-O-A SWITCH. PROVIDE SQUARE D LG40277. CONTROL IN AUTO POSITION SHALL BE THROUGH PHOTOCELL.
 5. FOR SBR FLOOD LIGHTS AND SITE AREA LIGHTS, EXTEND PHOTOCELL CONTROL THROUGH LIGHTING CONTACTOR 'AUTO' POSITION.
 6. CEILING MOUNT EMERGENCY LIGHTS.
 7. ALL CONDUIT IN THE CHEMICAL FEED BUILDING SHALL BE SCH.80 PVC. SEAL ALL CONDUIT TERMINATIONS (INTO DEVICE OUTLET BOXES, LIGHT FIXTURES, ETC.) WITH DUCT SEAL.

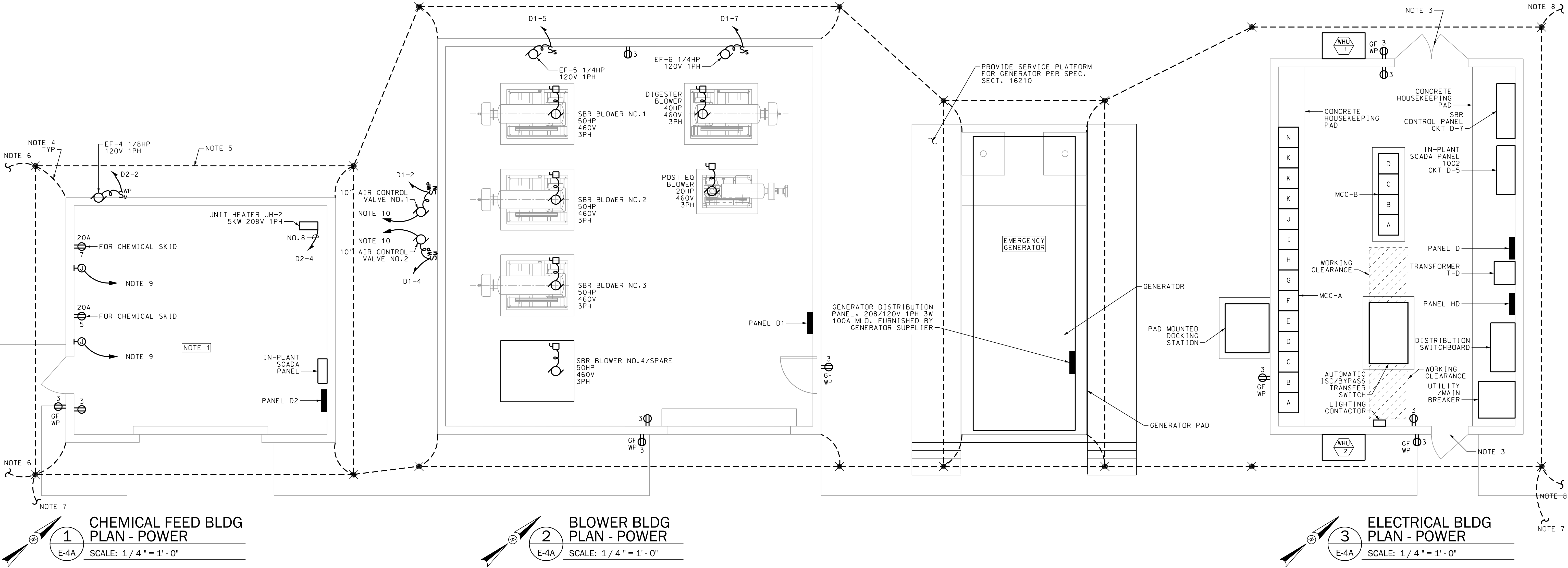
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109 PARK OF COMMERCE DRIVE, SUITE 6
SAVANNAH, GEORGIA 31405 (912)238-2400

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NOTES:

1. ALL CONDUIT IN THE CHEMICAL FEED BUILDING SHALL BE SCH.80 PVC. SEAL ALL CONDUIT TERMINATIONS (INTO DEVICE OUTLET BOXES, LIGHT FIXTURES, ETC.) WITH DUCT SEAL.
2. EXTEND ALARM, COMMUNICATIONS AND CONTROL WIRING THROUGH THE ATS. REMOTE ANNUNCIATION SHALL BE THROUGH IN-PLANT SCADA, THE ALARMS AND STATUS SHALL BE DISPLAYED ON THE OPERATOR'S WORKSTATION IN THE OPERATIONS BUILDING. EXTEND NOTIFICATION TO SCADA PANEL 1002.
3. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE PANIC HARDWARE ON ALL MAN-DOORS IN MAIN ELECTRICAL BUILDING AND BLOWER BUILDING.
4. BONDING JUMPER, 3/4" PVC SCH 80 W/ NO. 1 CU. PROVIDE HYDRAULIC COMPRESSION LUG ON EQUIPMENT OR PIPEWORK. PROVIDE EXOTHERMIC WELD TO 1/2 CU. GROUND.
5. NO. 1/2 CU GROUND, 30" BELOW GRADE. PROVIDE WARNING TAPE 12" BELOW GRADE.
6. CONNECT TO GROUND RING AROUND THE DIGESTER STRUCTURE.
7. CONNECT TO THE GROUND RING AROUND THE SBR BASIN.
8. CONNECT TO THE GROUND RING AROUND THE CONTROL BUILDING.
9. TO IN-PLANT SCADA PANEL NO. 1002.
10. TO SBR CONTROL PANE.



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29 SEP 2023
M.E. SACK
CHARLES B. CROSBY

DATE: _____

M.E. SACK ENGINEERING

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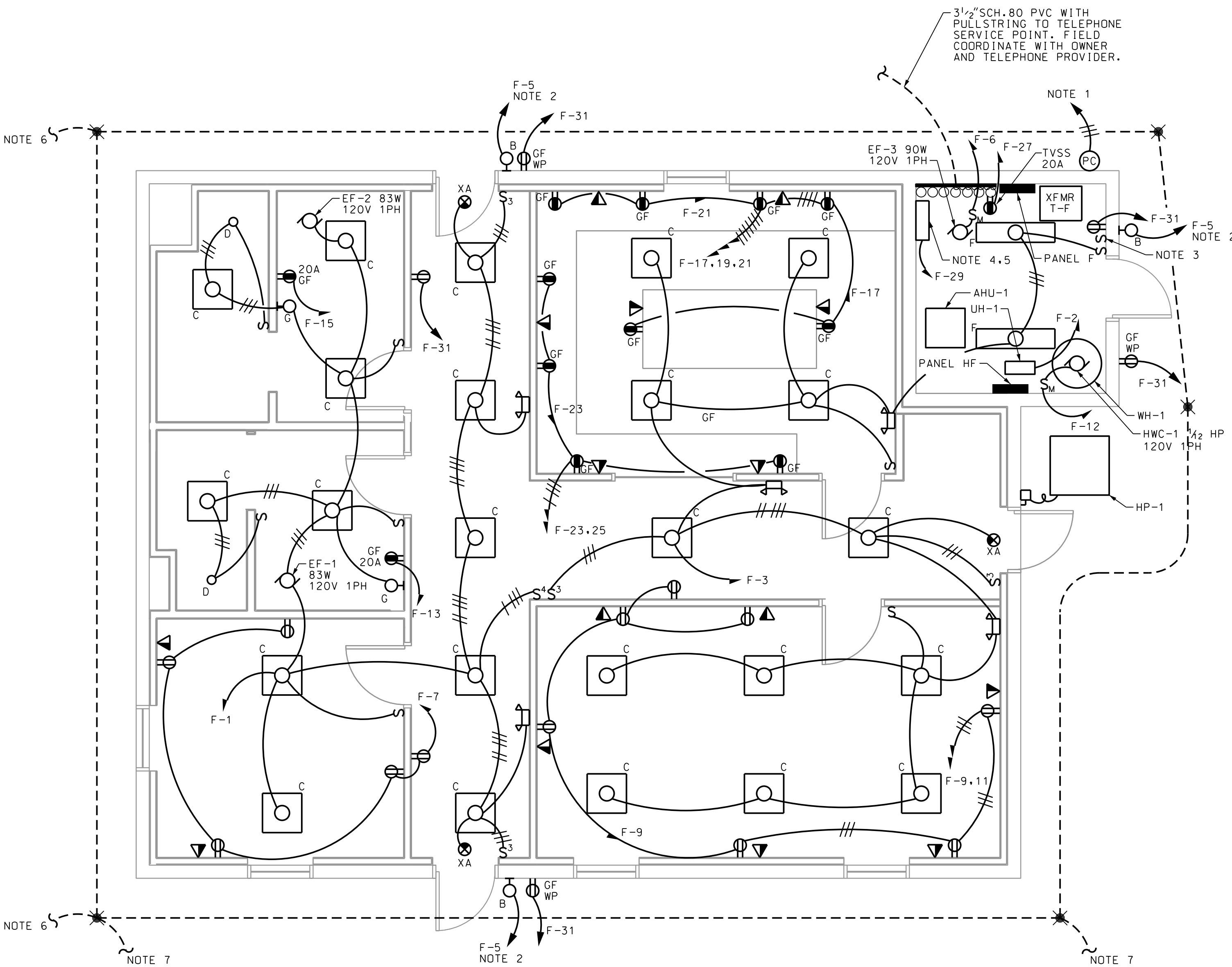
WATER POLLUTION CONTROL PLANT

Chemical Feed, Blower & Power House Power Plans

CHATHAM ENGINEERING
109 PARK OF COMMERCE DRIVE, SUITE 6
SAVANNAH, GEORGIA 31405 (912)238-2400

SHEET: E-4A
FILE NO: 2013-36
PLOT DATE: September 29, 2023

CADD PLOT
29-SEP-2023
13:19
LCAULEY



1
E-4B
SCALE: 1/4" = 1'-0"

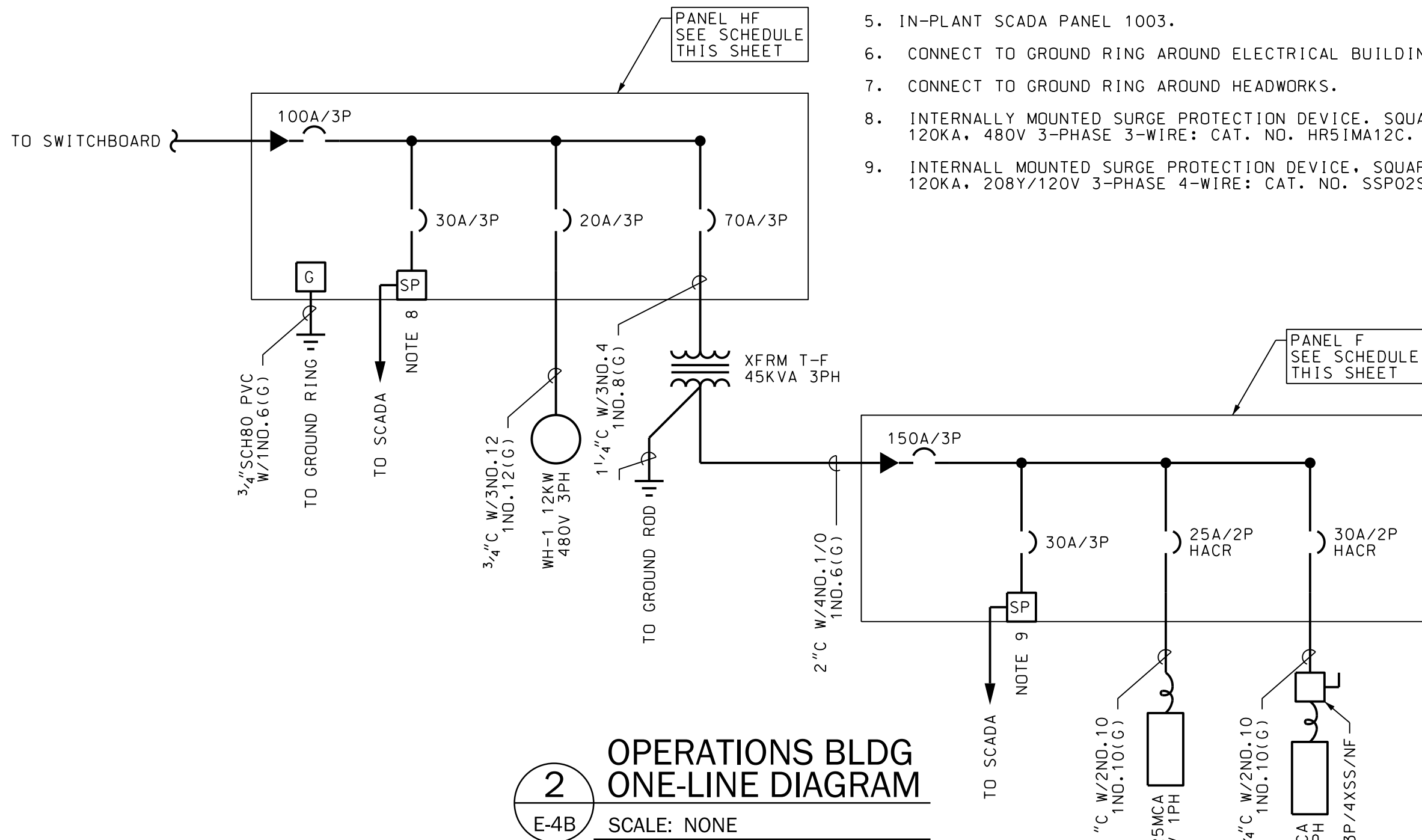
OPERATIONS BLDG
PLAN - LIGHTING & POWER

SCHEDULE OF PANEL 'HF' OPERATIONS BLDG									
VOLTAGE: 480 / 277		PHASE: 3		DEVICE AMPS: 100 A		MCB		WIRE: 3	
BUS AMPS: 125 A				MOUNTING: SURFACE				NEMA: 1	
A.I.C RATING: 10,000 A									
LOCATION DESCRIPTION	LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD TYPE	LOAD (KVA)
PREPARED SPACE				1	A	2	25A/3P	H	4.0
-				3	B	4	-	H	4.0
-				5	C	6	-	H	4.0
PREPARED SPACE				7	A	8	70A/3P	H	12.6
-				9	B	10	-	H	7.9
-				11	C	12	-	H	6.4
PREPARED SPACE				13	A	14			
-				15	B	16			
-				17	C	18			
SURGE PROTECTION				19	A	20			
SQUARE D 120KA				21	B	22			
CAT.NO. HR41MA12C				23	C	24			
OR EQUAL BY GE/ABB OR EATON				25	A	26			
-				27	B	28			
-				29	C	30			
PANEL LOAD ANALYSIS									
Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference	Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference
A	Lighting	0.0	0.0	NEC Article 215.3	E	Heating	0.0	0.0	NEC Article 220.60
B	Receptacles	0.0	0.0	NEC Table 220.44	F	Largest Motor	0.0	0.0	NEC Article 440.7
C	Kitchen Equipment	0.0	0.0	NEC Table 220.56	G	Other Motors	0.0	0.0	NEC Article 440.7
D	Air-Conditioning	0.0	0.0	NEC Article 220.60	H	Other Loads	38.8	38.8	
Phase A Connected Load		16.6 KVA	Notes:		TOTAL CONNECTED LOAD		38.8 KVA	46.7 AMPS	
Phase B Connected Load		11.9 KVA			TOTAL DEMAND LOAD		38.8 KVA	46.7 AMPS	
Phase C Connected Load		10.4 KVA			MINIMUM SIZING AMPS		60.7 KVA	73.0 AMPS	

SCHEDULE OF PANEL 'F' OPERATIONS BLDG									
VOLTAGE: 208 / 120		PHASE: 3		DEVICE AMPS: 150 A		MCB		WIRE: 4	
BUS AMPS: 200 A				MOUNTING: SURFACE				1	
A.I.C RATING: 10,000 A									
LOCATION DESCRIPTION	LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD TYPE	LOAD (KVA)
LIGHTS INTERIOR	0.6	A	20A/1P	1	A	2	20A/2P	E	1.5
LIGHTS INTERIOR	0.4	A	20A/1P	3	B	4	-	E	1.5
LIGHTS EXTERIOR	0.0	A	20A/1P	5	C	6	20A/1P	G	1.1
RCPT OFFICE	1.0	B	20A/1P	7	A	8	20A/1P		
RCPT OPEN OFFICE	0.8	B	20A/1P	9	B	10	20A/1P		
RCPT OPEN OFFICE	0.6	B	20A/1P	11	C	12	20A/1P	G	0.5
RCPT WOMEN'S RR	1.5	B	20A/1P	13	A	14	25A/2P	D	2.1
RCPT MEN'S RR	1.5	B	20A/1P	15	B	16	HACR	D	2.1
RCPT LAB ISLAND	0.6	B	20A/1P	17	C	18	30A/2P	D	1.9
RCPT LAB COUNTER	1.5	B	20A/1P	19	A	20	HACR	D	1.9
RCPT LAB COUNTER	1.5	B	20A/1P	21	B	22	20A/1P		
RCPT LAB PENINSULA	1.5	B	20A/1P	23	C	24	20A/1P		
RCPT LAB PENINSULA	1.5	B	20A/1P	25	A	26	20A/1P		
RCPT TBB	0.1	B	20A/1P	27	B	28	20A/1P		
SCADA PANEL	0.1	B	20A/1P	29	C	30	20A/1P		
RCPT EXTERIOR MISC	1.0	B	20A/1P	31	A	32	20A/1P		
SPARE			20A/1P	33	B	34	20A/1P		
SPARE			20A/1P	35	C	36	20A/1P		
SURGE PROTECTION			-	37	A	38	-		
100KA 10-MODES OF PROTECTION			-	39	B	40	-		
-			-	41	C	42	-		
PANEL LOAD ANALYSIS									
Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference	Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference
A	Lighting	1.0	1.3	NEC Article 215.3	E	Heating	3.0	0.0	NEC Article 220.60
B	Receptacles	13.2	11.6	NEC Table 220.44	F	Largest Motor	0.0	0.0	NEC Article 440.7
C	Kitchen Equipment	0.0	0.0	NEC Table 220.56	G	Other Motors	1.6	1.6	NEC Article 440.7
D	Air-Conditioning	7.9	7.9	NEC Article 220.60	H	Other Loads	0.0	0.0	
Phase A Connected Load		12.6 KVA	Notes:		TOTAL CONNECTED LOAD		26.8 KVA	74.5 AMPS	
Phase B Connected Load		7.9 KVA			TOTAL DEMAND LOAD		22.5 KVA	62.4 AMPS	
Phase C Connected Load		6.4 KVA			MINIMUM SIZING AMPS		35.1 KVA	97.5 AMPS	

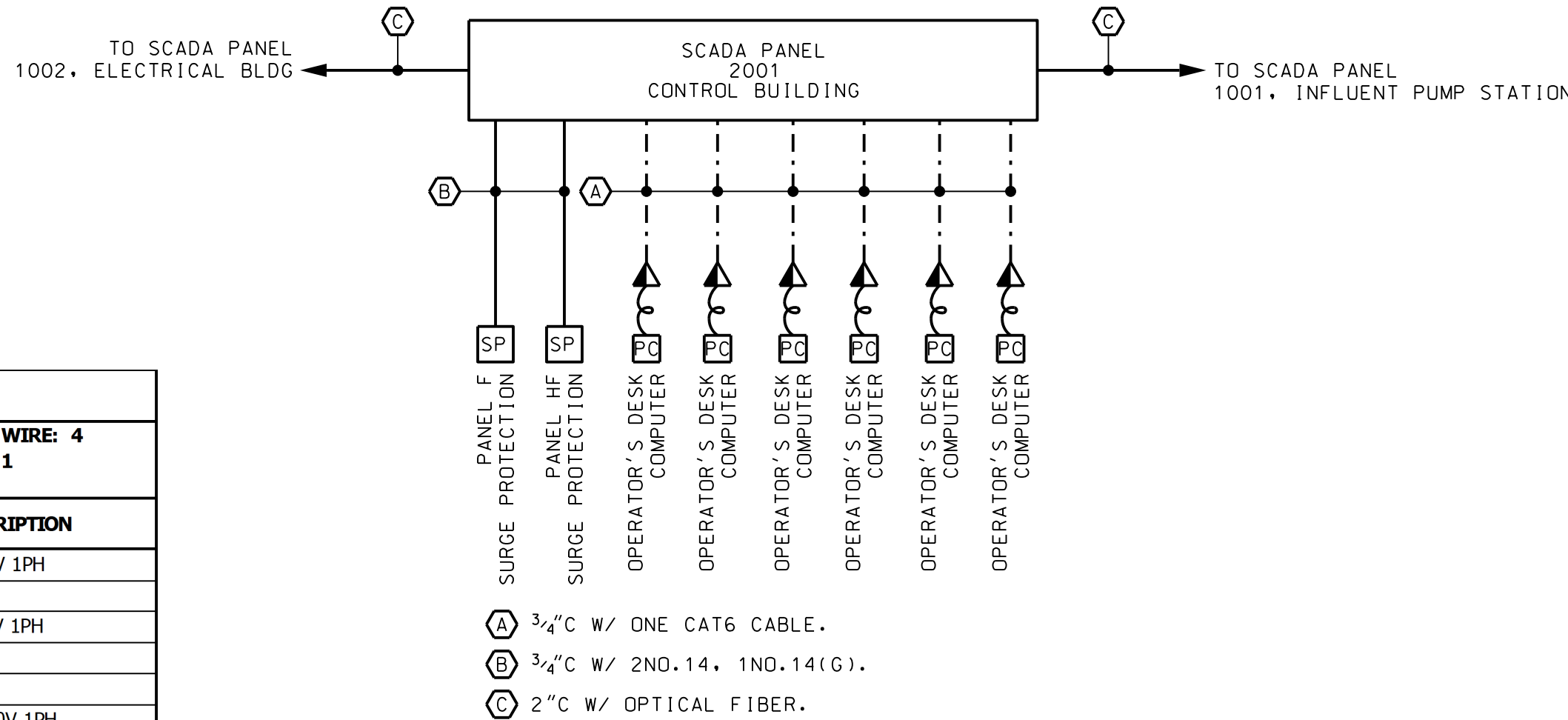
NOTES:

1. EXTEND PHOTO CELL CONTROL THROUGH 'PHOTO' POSITION ON EXTERIOR LIGHTING CONTROL SWITCH.
2. EXTEND THROUGH 3-POSITION EXTERIOR LIGHTING CONTROL SWITCH.
3. EXTERIOR LIGHTING CONTROL SWITCH: THREE POSITION, MAINTAINED CONTACT, CENTER OFF, LABEL SWITCH POSITIONS: UP-PHOTO, CENTER-OFF, DOWN-MANUAL ON. PROVIDE COOPER 2225 OR EQUAL BY HUBBELL OR LEGRAND.
4. EXTEND 2" W/OPTICAL FIBER CABLE FROM IN-PLANT SCADA PANEL TO ELECTRICAL BUILDING IN-PLANT SCADA PANEL 1002.
5. IN-PLANT SCADA PANEL 1003.
6. CONNECT TO GROUND RING AROUND ELECTRICAL BUILDING.
7. CONNECT TO GROUND RING AROUND HEADWORKS.
8. INTERNALLY MOUNTED SURGE PROTECTION DEVICE, SQUARE D SURGELOGIC SERIES, 120KA, 480V 3-PHASE 3-WIRE: CAT. NO. HR51MA12C.
9. INTERNALLY MOUNTED SURGE PROTECTION DEVICE, SQUARE D SURGELOGIC SERIES, 120KA, 208Y/120V 3-PHASE 4-WIRE: CAT. NO. SSP02SBA12D.



2
E-4B
SCALE: NONE

OPERATIONS BLDG
ONE-LINE DIAGRAM



3
E-4B
SCALE: NONE

SCADA RISER - OPERATIONS BUILDING



109 PARK OF COMMERCE DRIVE, SUITE 6
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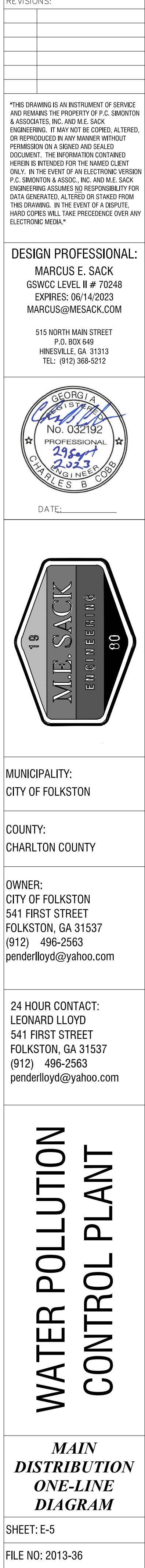
WATER POLLUTION
CONTROL PLANT

Ops Bldg Power
& Lighting Plan,
One-Line Diagram,
Panel Schedule

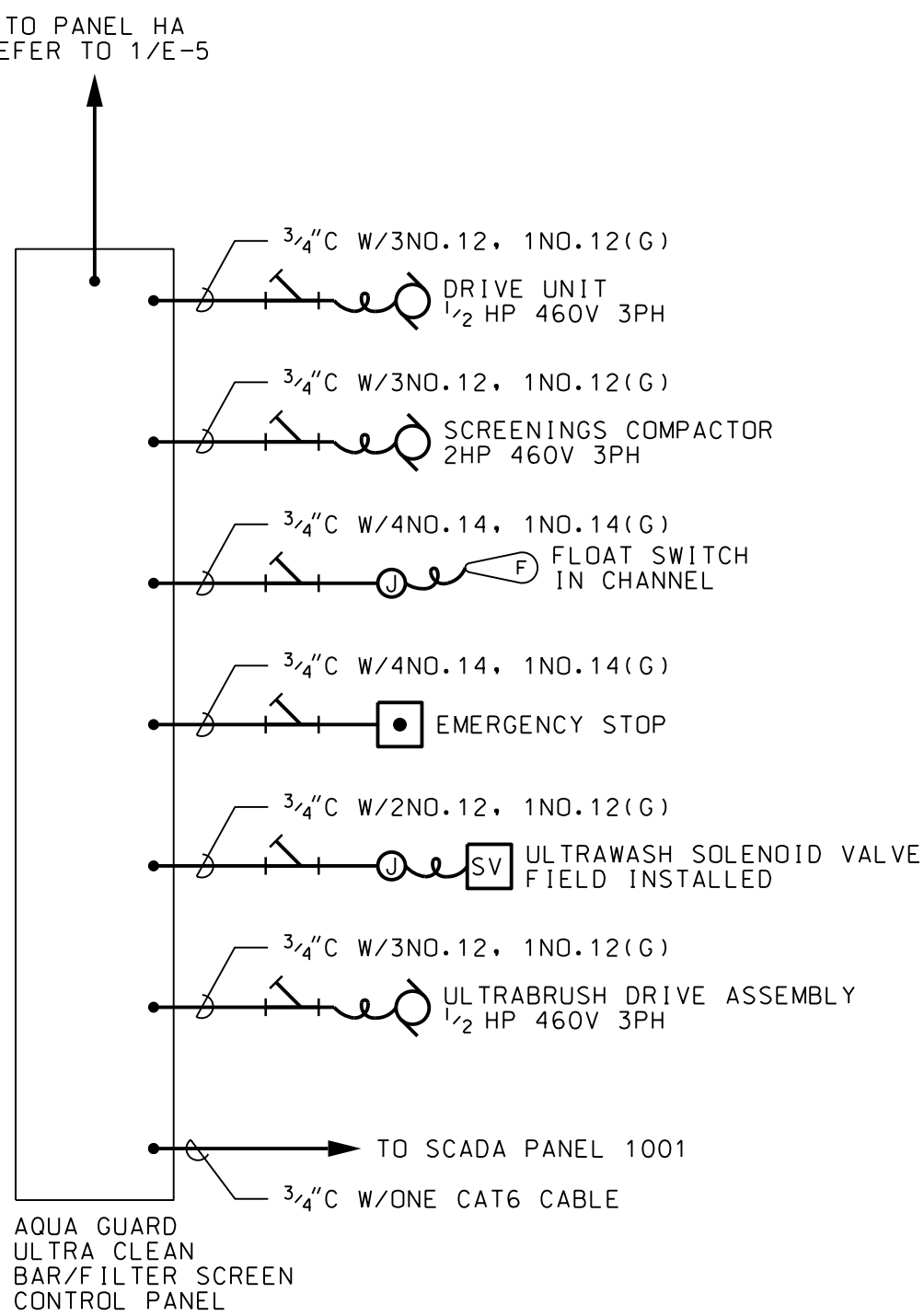
SHEET: E-4B

FILE NO: 2013-36

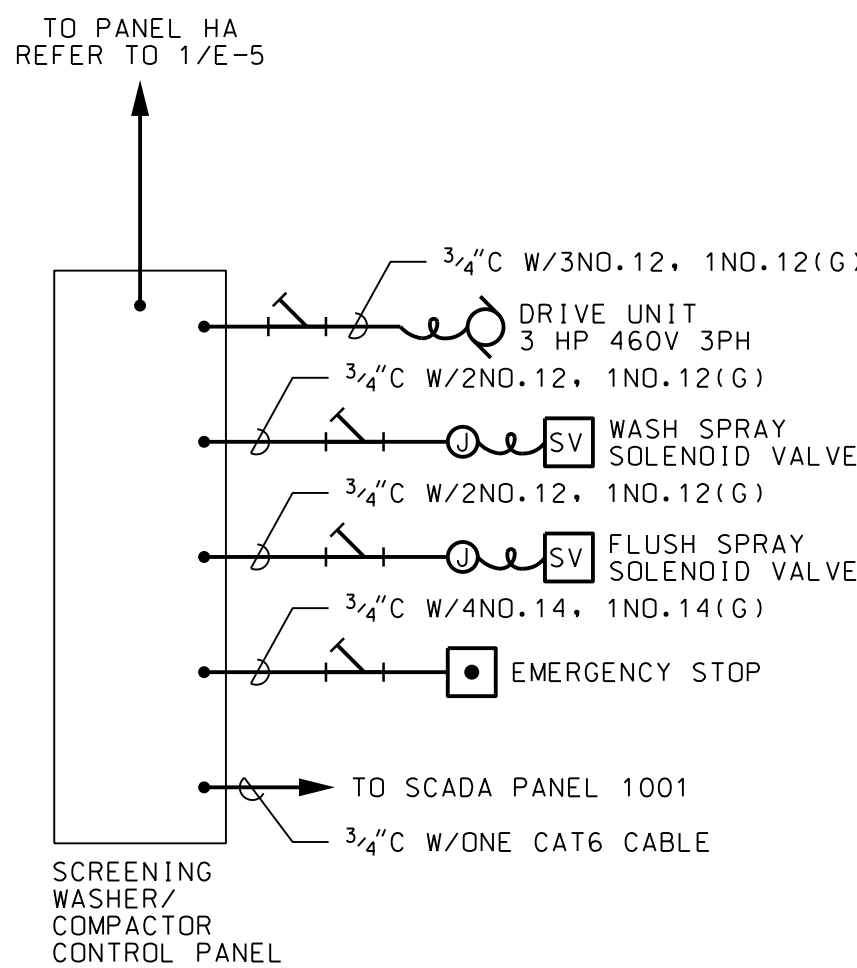
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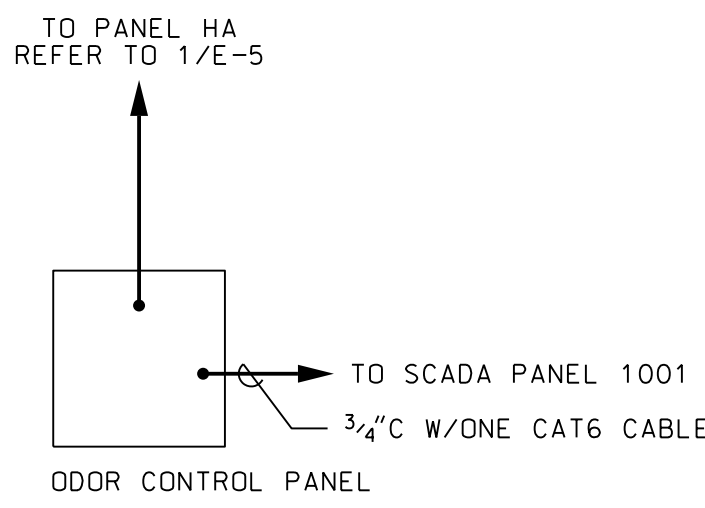
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29-SEP-2023
13:20
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1 SCREENING SYSTEMS - FIELD CONNECTIONS
E-5A SCHEMATIC

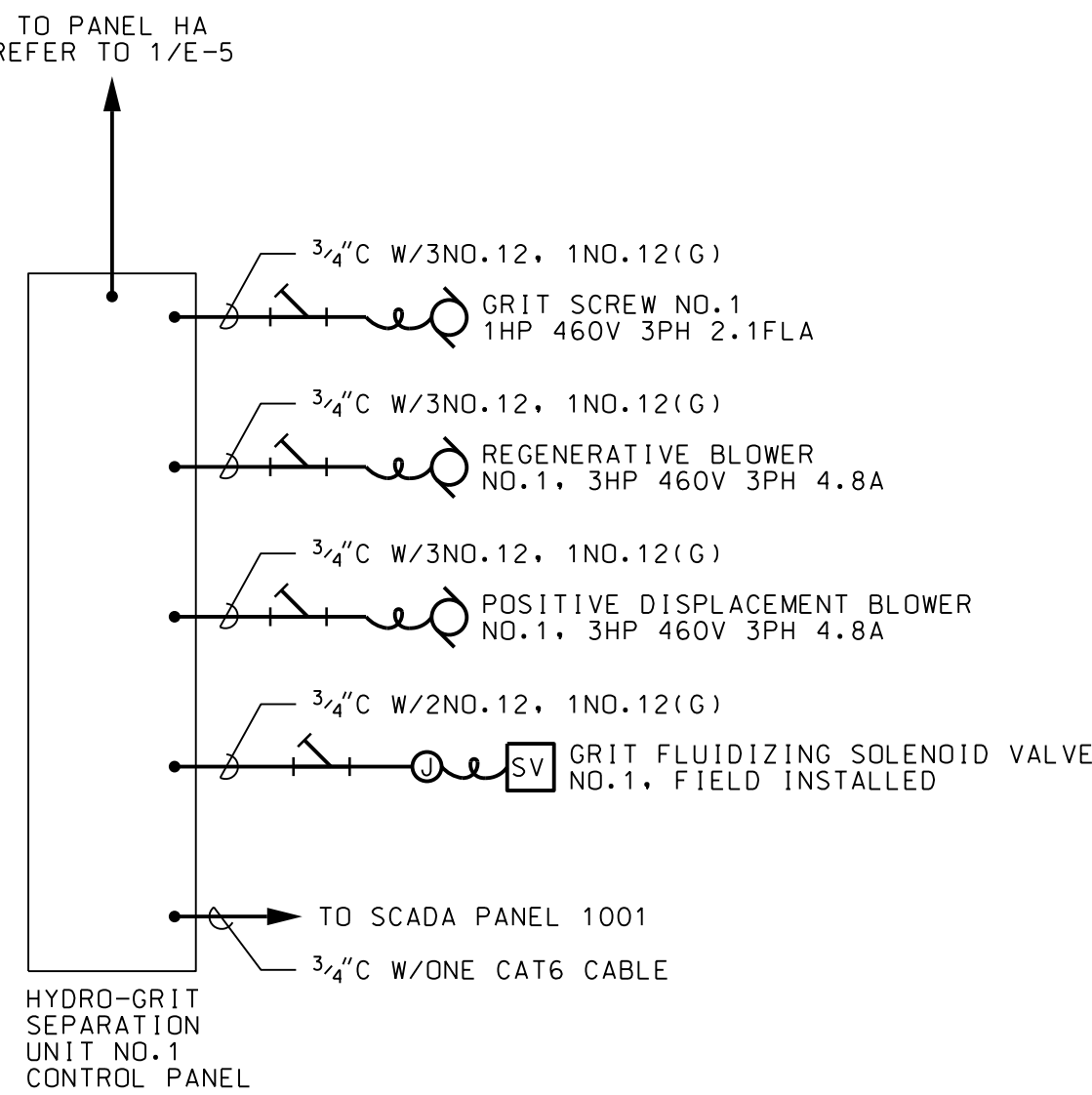


2 ODOR CONTROL SYSTEM - FIELD CONNECTIONS
E-5A SCHEMATIC

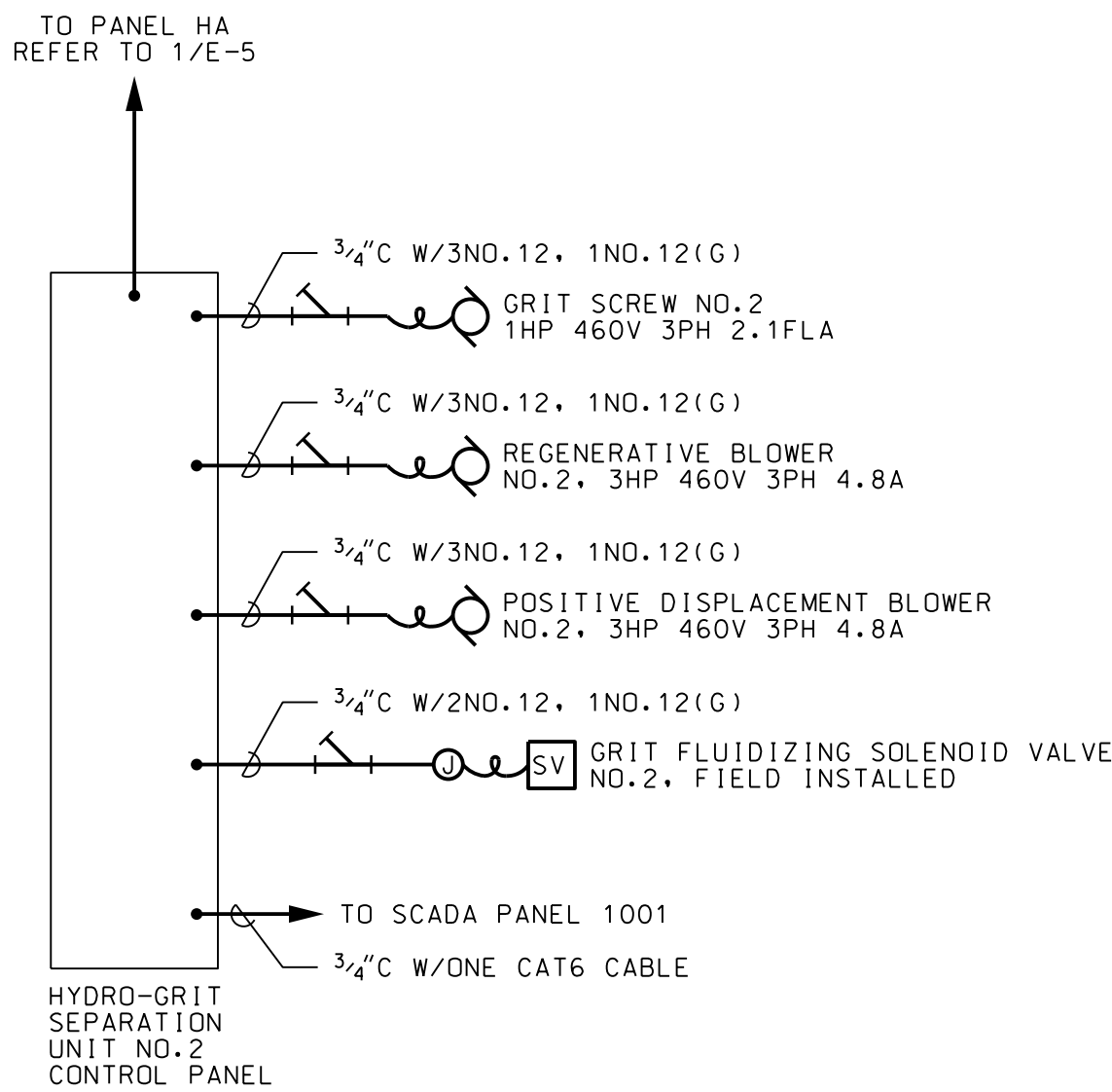


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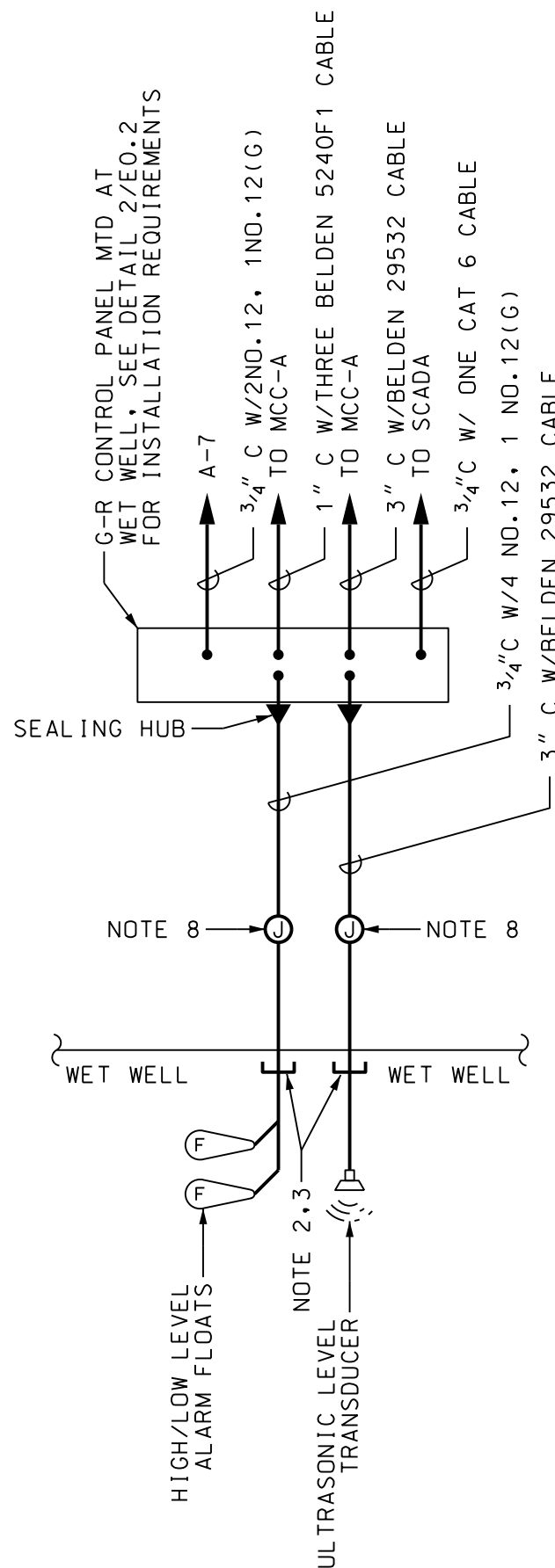
- REFER TO SHEET E-3 FOR IN-FIELD LOCATIONS OF PANELS AND EQUIPMENT.
- PROVIDE STAINLESS STEEL CABLE SUPPORT IN WET WELL FOR PUMP, FLOAT AND TRANSDUCER CABLES.
- PROVIDE KELLUM GRIP/CABLE SUPPORT FOR FLOAT AND TRANSDUCER CABLES. KELLUM GRIP/CABLE SUPPORT SHALL BE HEAVY DUTY, STAINLESS STEEL, CLOSED MESH, SINGLE EYE.
- EXTEND TO MCC-A VFD FOR POWER FEED TO PUMPS.
- EXTEND TO MCC-A VFD FOR CONTROL OF PUMPS.
- SCADA PANEL #1. MOUNT ON FRAME, REFER TO DETAIL 2/E-1A FOR MOUNTING DETAIL.
- THE DISCONNECT BETWEEN THE VARIABLE FREQUENCY DRIVE AND THE MOTOR SHALL BE EQUIPPED WITH A NORMALLY OPEN AUXILIARY CONTACT. THE AUXILIARY CONTACT SHALL BE WIRED INTO THE CONTROL VOLTAGE STOP/START CIRCUIT ON THE DRIVE. THE AUXILIARY CONTACT SHALL BE EARLY BREAK, SO THAT THE START STOP CIRCUIT DROPS OUT BEFORE THE DISCONNECT POWER CIRCUIT OPENS, AND LATE MAKE SO THAT THE DISCONNECT POWER CIRCUIT CLOSSES BEFORE THE START CIRCUIT ON THE DRIVE IS CLOSED.
- JUNCTION BOXES FOR FLOAT SWITCHES AND LEVEL TRANSDUCER, PROVIDE PENTAIR 12" X 10" X 6" 316L STAINLESS STEEL NEMA 4X BOX WITH 1/4 TURN LATCH. CAT. NO. LHC302515SS6. FIELD COORDINATE LOCATION.



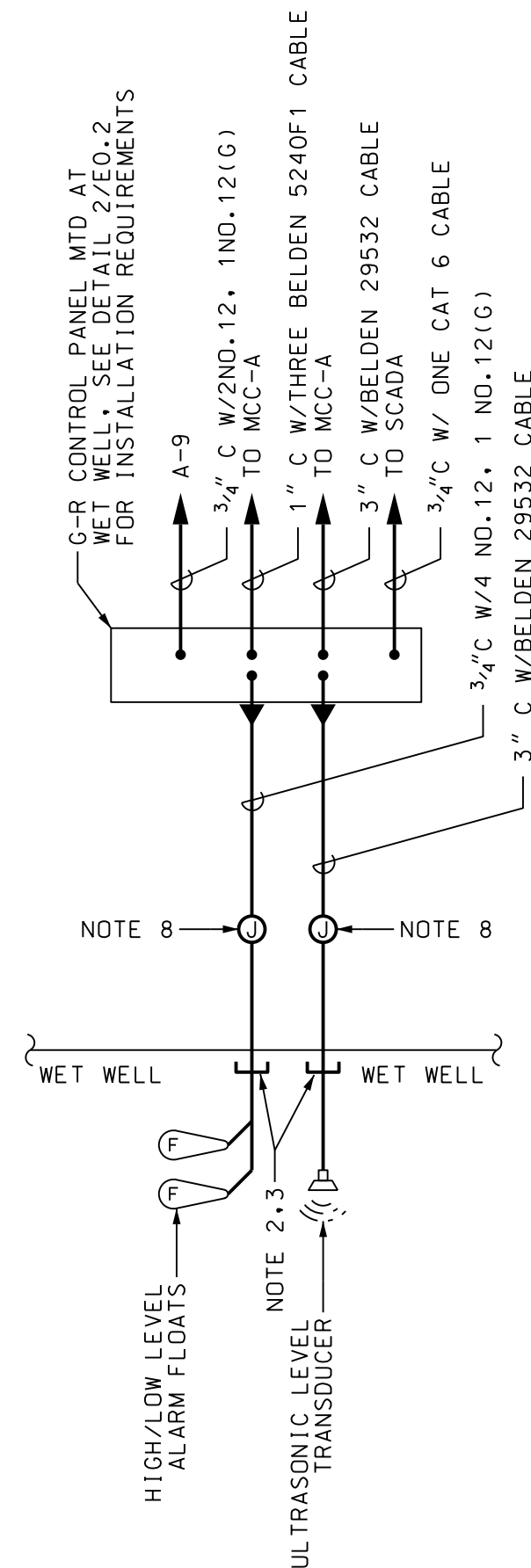
3 GRIT SEPARATION - FIELD CONNECTIONS
E-5A SCHEMATIC





4 INFLUENT PUMP STATION - RISER DIAGRAM
E-5A SCHEMATIC



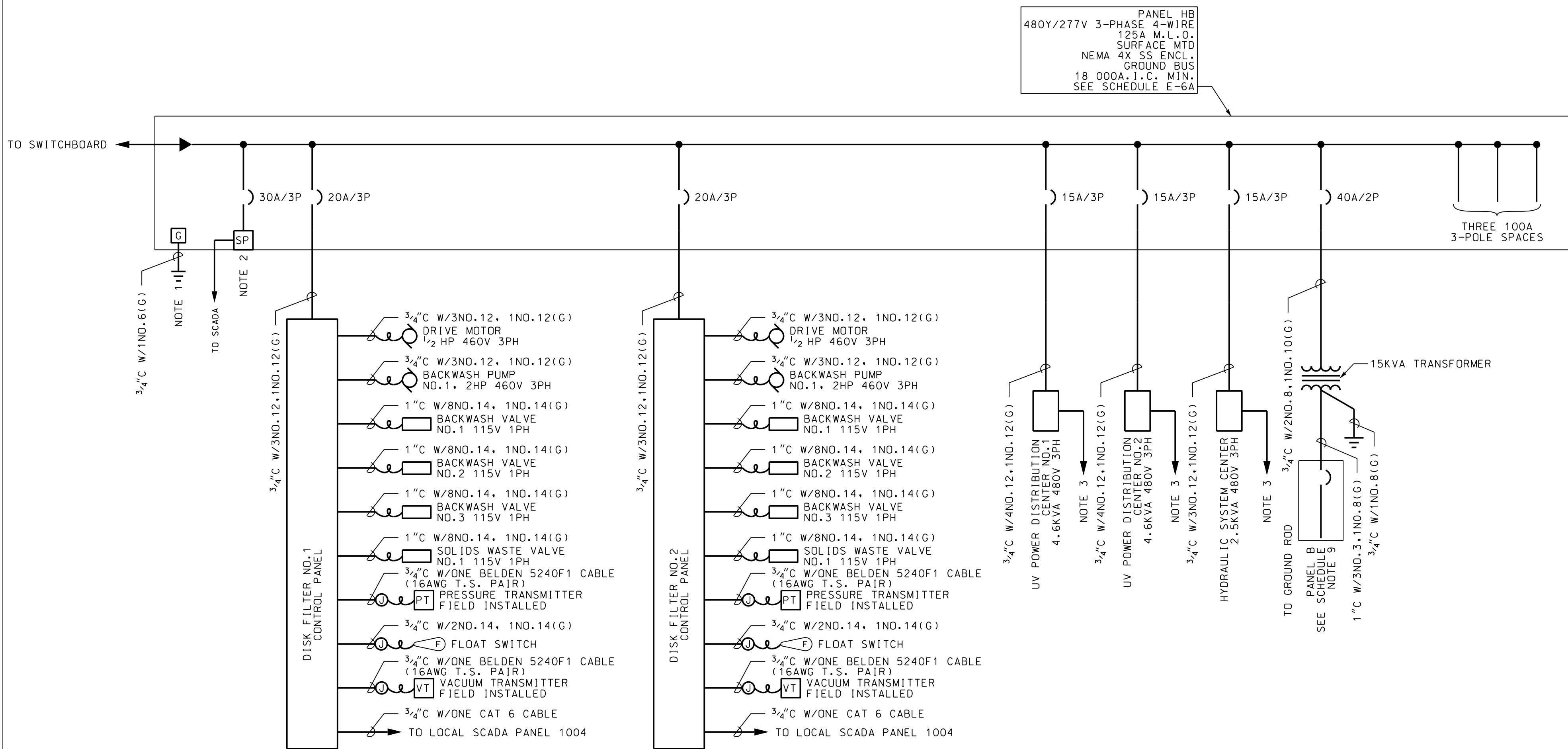
5 IN-LINE PUMP STATION - RISER DIAGRAM
E-5A SCHEMATIC



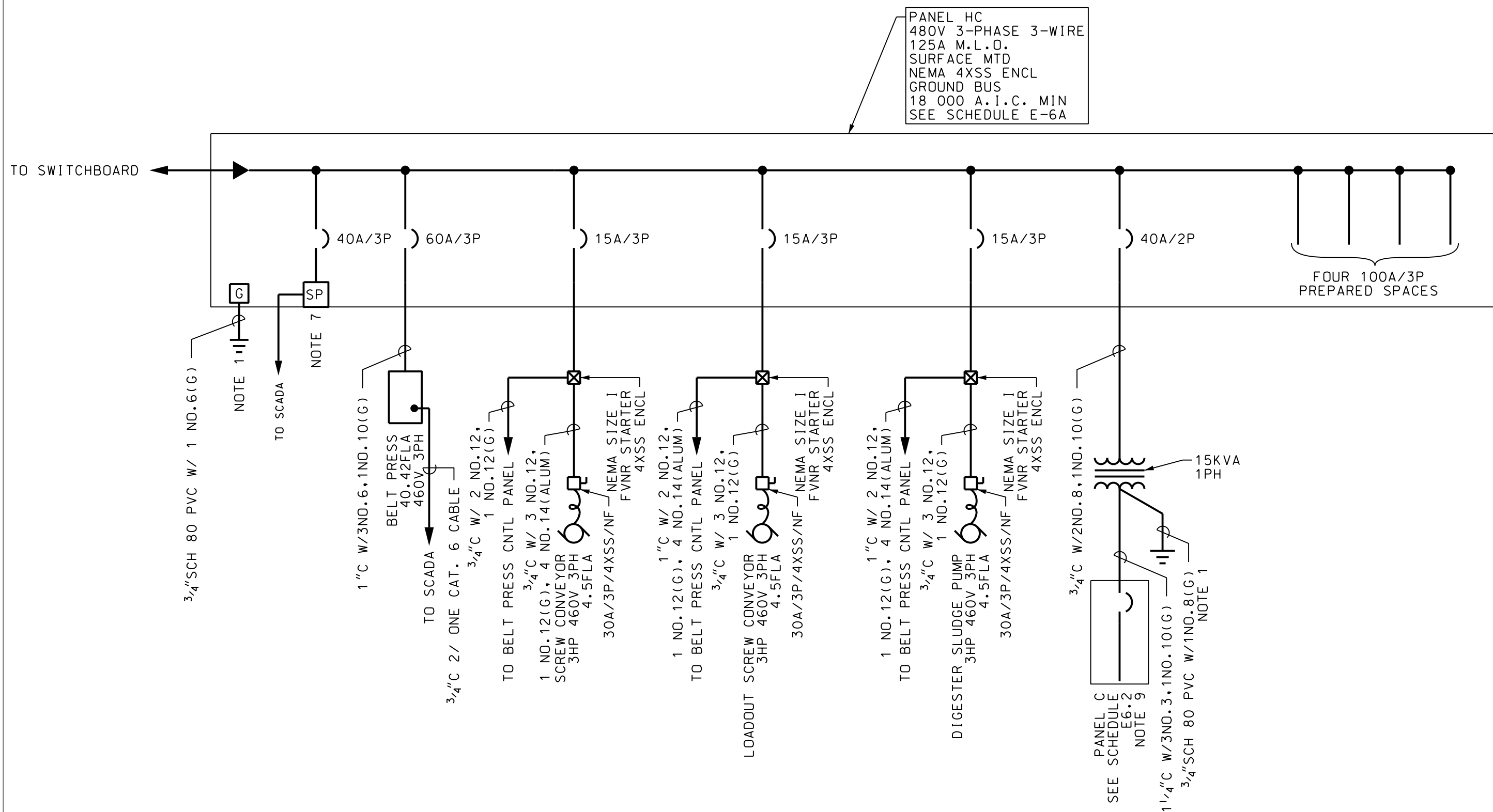
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OWNER: CITY OF FOLKSTON 541 FIRST STREET FOLKSTON, GA 31537 (912) 496-2563 penderlloyd@yahoo.com	
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WATER POLLUTION CONTROL PLANT	
INLUENT SUB-SYSTEMS RISER DIAGRAMS	
SHEET: E-5A	
FILE NO: 2013-36	
PLOT DATE: September 29, 2023	



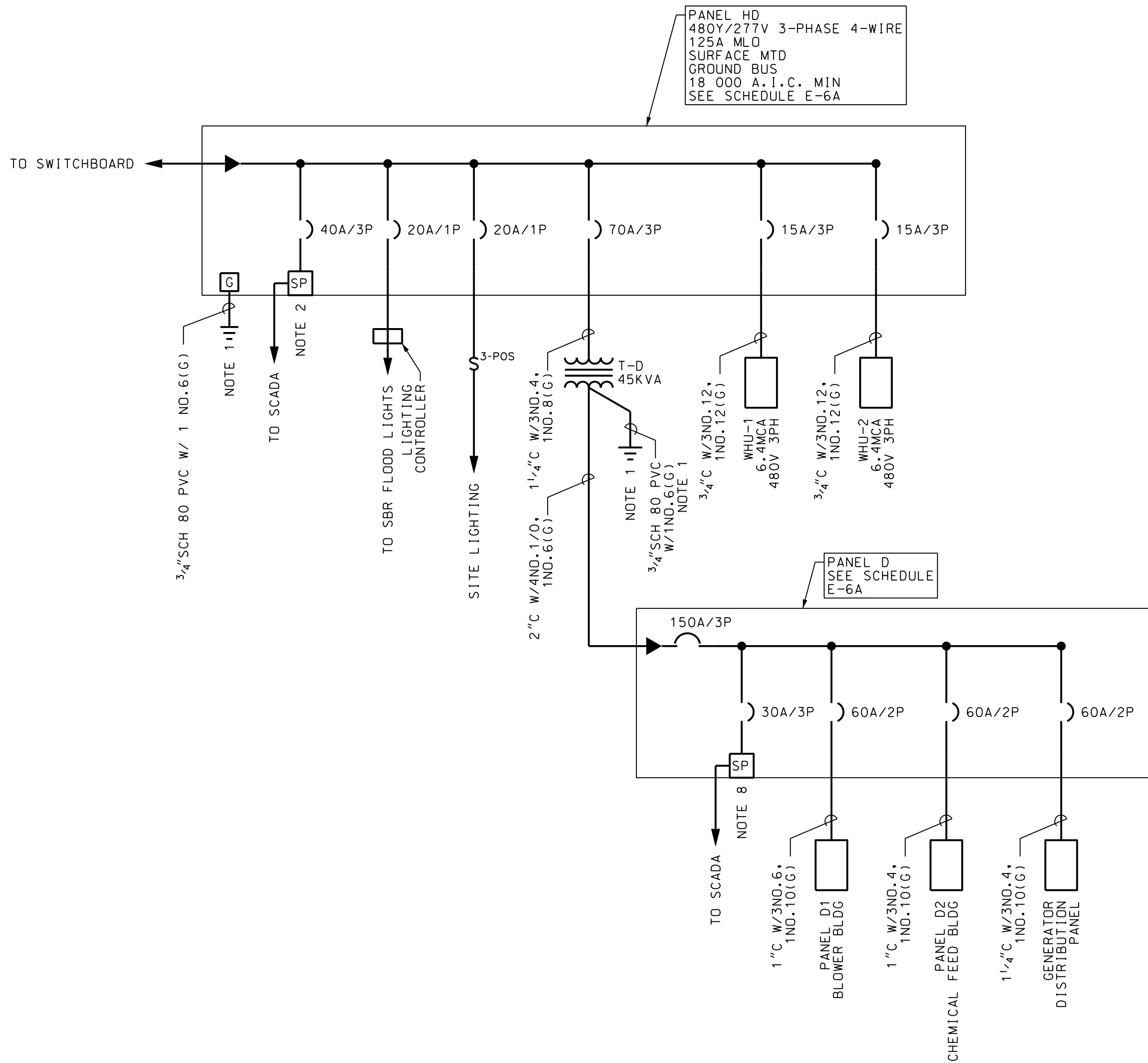
109 PARK OF COMMERCE DRIVE, SUITE 6
SAVANNAH, GEORGIA 31405 (912)238-2400



1 FILTRATION & DISINFECTION RISER DIAGRAM
E-5B SCALE: NONE



2 BELT PRESS & DIGESTER RISER DIAGRAM
E-5B SCALE: NONE



3 ELECTRICAL BUILDING PANEL D RISER DIAGRAM
E-5B SCALE: NONE

NOTES:

1. EXTEND TO GROUND RING.
2. INTERNAL SURGE PROTECTION DEVICE; SQUARE D IMA HL SERIES 120KA 480Y/277V 3-PHASE 4-WIRE TYPE 2 SPD, OR APPROVED EQUAL BY GE/ABB OR EATON.
3. EXTEND CONDUCTORS TO UV SYSTEM CONTROL PANEL.
4. EXTEND 3/4" C W/ 2 No 14, 4 No 14(SPARE), 1 No 14(G) TO LOCAL SCADA PANEL FOR REUSE PUMP CONTROL.
5. EXTEND 3/4" C W/ 2 No 14, 1 No 14(G) TO PRESSURE SWITCH CONTROL.
6. REFER TO SCHEDULE, SHEET E-6A.
7. INTERNAL SURGE PROTECTION DEVICE; SQUARE D IMA HL SERIES 120KA 480V 3-PHASE 3-WIRE TYPE 2 SPD, OR APPROVED EQUAL BY GE/ABB OR EATON.
8. INTERNAL SURGE PROTECTION DEVICE; SQUARE D SURGELOGIC SERIES FOR NO. 1 PANELBOARDS, 120KA 208Y/120V 3-PHASE 4-WIRE, OR APPROVED EQUAL BY GE/ABB OR EATON.
9. INTERNAL SURGE PROTECTION DEVICE; SQUARE D SURGELOGIC SERIES FOR NO. 2 PANELBOARDS, 120KA 240/120V 1-PHASE 3-WIRE, OR APPROVED EQUAL BY GE/ABB OR EATON.

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No. 032192
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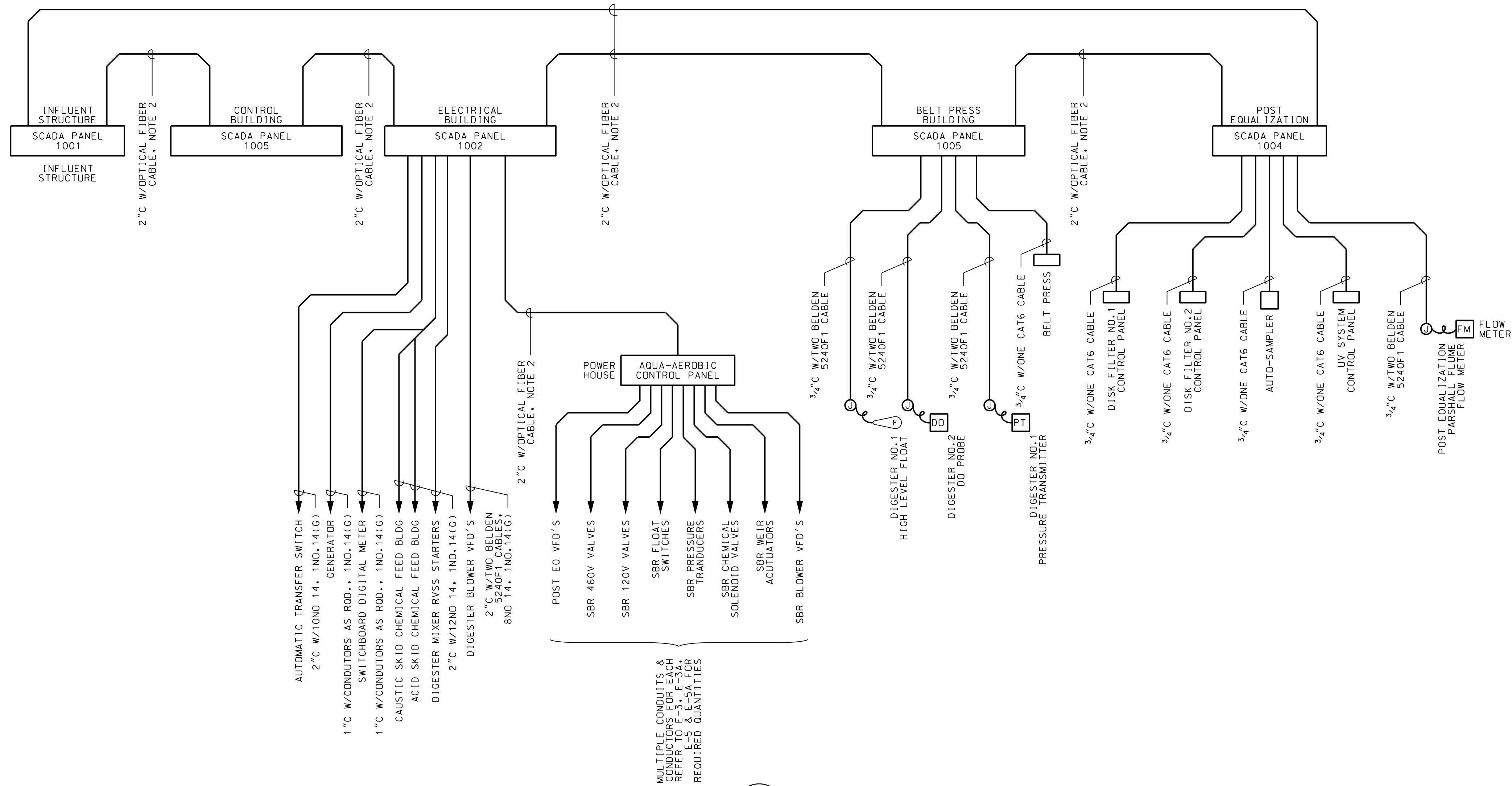
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WATER POLLUTION CONTROL PLANT

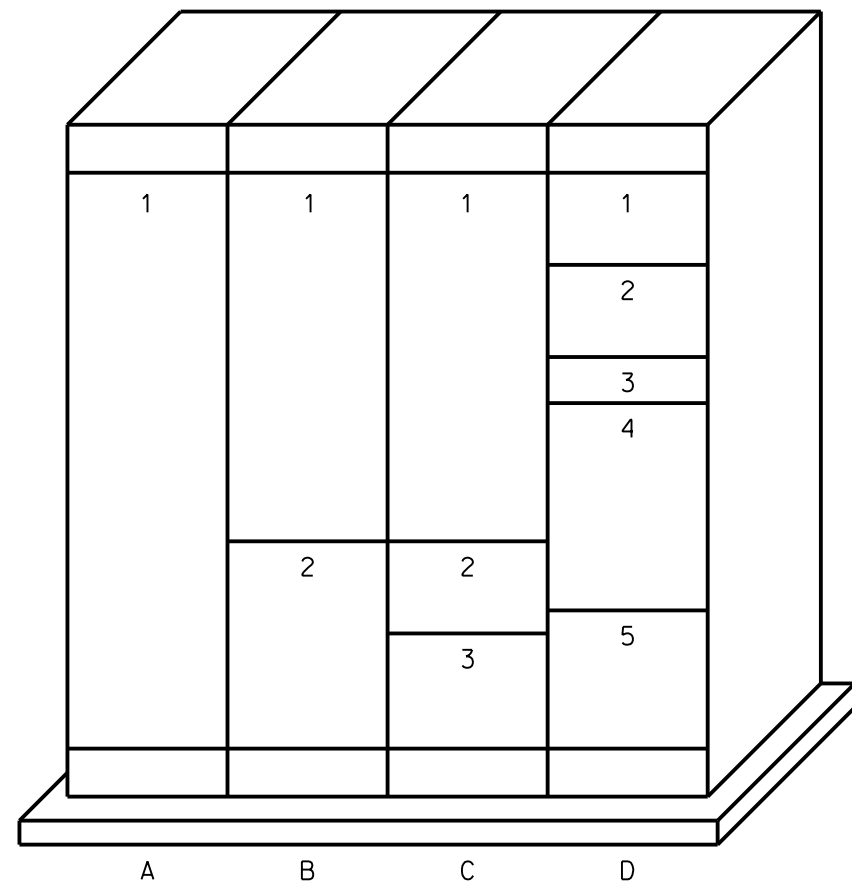
SUB-SYSTEMS RISER DIAGRAMS

SHEET: E-5B
FILE NO: 2013-36
PLOT DATE: September 29, 2023

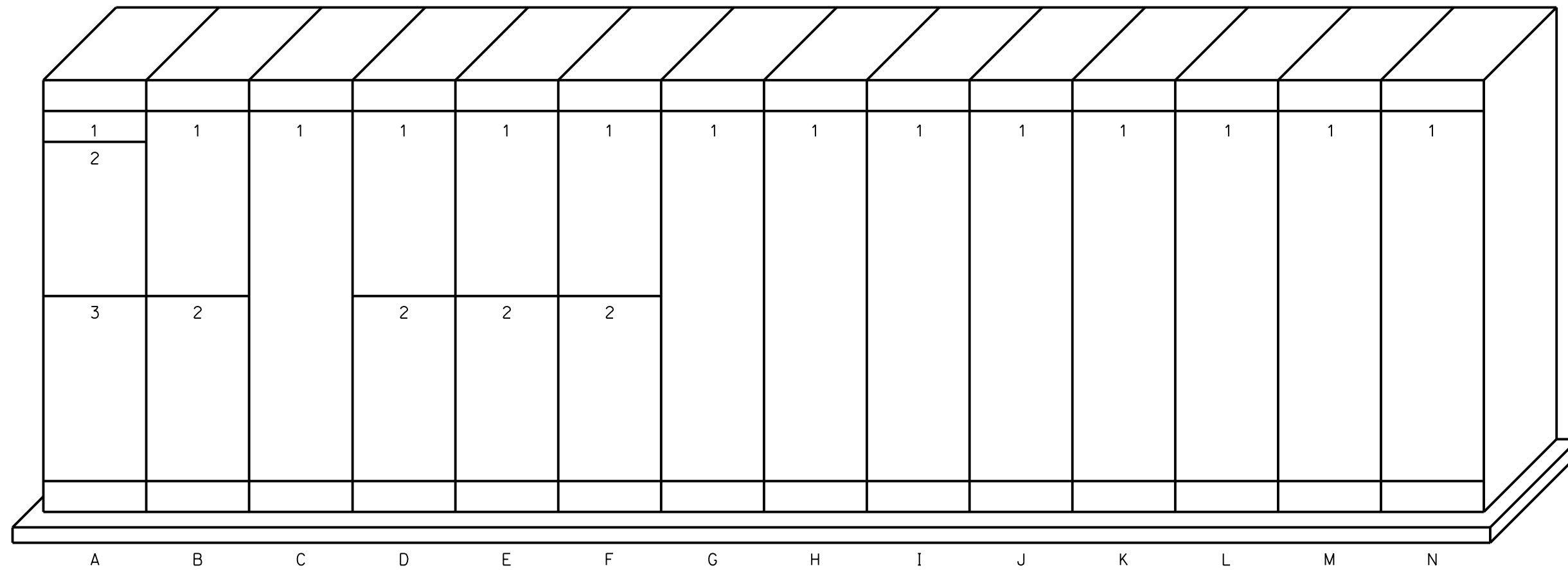
1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL SCADA CONDUCTORS AND OPTICAL FIBER CABLES.
 - A. TERMINATION OF COPPER CONDUCTORS SHALL BE BY THE SCADA SYSTEM INTEGRATOR.
 - B. OPTICAL FIBER CABLE SHALL BE FURNISHED WITH FACTORY TERMINATIONS, FIELD TERMINATIONS ARE NOT PERMITTED.
2. THE OPTICAL FIBER CABLE SHALL BE CORNING FREEDOM LST SERIES, OR APPROVED EQUAL.
 - A. THE CABLE SHALL BE PROVIDED TERMINATED WITH SC CONNECTORS
 - B. THE CABLE SHALL BE PROVIDED WITH A FAN OUT KIT.
 - C. THE CABLE SHALL BE PROVIDED WITH PULLING EYES ON EACH END TO FACILITATE INSTALLATION IN CONDUIT
 - D. PREPARE A NAME TO THE FACTORY TERMINATIONS.
 - D. THE FIBER SHALL BE TESTED AFTER INSTALLATION FOR CONTINUITY AND INSERTION LOSS. THE INSERTION LOSS SHALL BE LESS THAN 3 DB.
 - E. THE FIBER OPTIC CABLE SHALL BE SUPPLIED BY THE SCADA CSI.
3. OMITTED
4. PROVIDE CONTROL CONDUCTORS AS REQUIRED BY G-R FOR OPERATION OF THE INFLUENT AND IN-LINE PUMP STATIONS. FOR BIDDING PURPOSES, PROVIDE CONDUIT AND CONTROL CABLE AS SPECIFIED ON THE SCADA SYSTEM RISER. COORDINATE WITH G-R BEFORE INSTALLATION OF ANY EQUIPMENT OR MATERIALS.
5. REFER TO PLAN SHEETS FOR IN-FIELD LOCATIONS OF PANELS AND EQUIPMENT.
6. PROVIDE STAINLESS STEEL CABLE SUPPORT IN WET WELL FOR FLOAT AND TRANSDUCER CABLES.
7. PROVIDE NON-METALLIC, ARIMID FIBER KELLUM GRIP/CABLE SUPPORT FOR FLOAT AND TRANSDUCER CABLE. KELLUM GRIP/CABLE SUPPORT SHALL BE HEAVY DUTY, CLOSED MESH, SINGLE EYE. PROVIDE PRODUCTS OF HUBBELL/KELLUMS OR SLINGCO.
8. MOUNT ALL EXTERIOR LOCATED CONTROL PANELS ON FRAME, REFER TO DETAIL 2/E-1A.
9. THE TREATMENT PLANT EQUIPMENT SHALL BE ENABLED/STARTED IN THE SEQUENCE SPECIFIED IN THE SCHEDULE. THE SCADA INTEGRATOR AND AQUA-AEROBIC SYSTEMS SHALL COORDINATE THEIR RESPECTIVE PROGRAMING TO ACCOMPLISH THE SPECIFIED SEQUENCE.
 - A. THE AUTOMATIC TRANSFER SWITCH WILL PROVIDE A PRE-TRANSFER SIGNAL TO THE IN-PLANT SCADA SYSTEM TO INITIATE A SHUT-DOWN OF ALL CONTROLLED EQUIPMENT PRIOR TO A TRANSFER FROM ONE SOURCE SUPPLYING LOAD TO ANOTHER (I.E. FOR EXERCISE FROM UTILITY TO GENERATOR, OR RE-TRANSFER FROM GENERATOR TO UTILITY).
 - B. THE AUTOMATIC TRANSFER SWITCH WILL PROVIDE INPUT SIGNALS TO THE IN-PLANT SCADA SYSTEM TO INITIATE THE LOAD START-UP SEQUENCE, THE IN-PLANT SCADA SYSTEM AND THE AQUA-AEROBIC SYSTEM WILL ADJUST THE PERMITTED LOADS AND THE STARTING SEQUENCE.



MOTOR CONTROL CENTER MCC-B									
VOLTAGE: 480V			PHASE: 3	WIRE: 3	MAIN BUS: 600A		VERT BUS: 300		
BUS BRACING: 65 000			MAX. OVERALL LENGTH: 80"				DEMAND LOAD: 118		
UNIT NO.	EQUIPMENT SERVED	HP	STARTER CIRCUIT BREAKER				CONTROLS	REMARKS	
			SIZE	FRAME	TRIP	POLES			
A-1	HARMONIC MITIGATION	N/A	N/A	-	-	-	-	72"	
B-1	SPARE/DIGESTER BLOWER	40	VFD	150	100	3	-	45"	
B-2	SPACE	-	-	-	-	-	-	27"	
C-1	POST EQ BLOWER	40	VFD	150	100	3	-	45"	
C-2	DIGESTER MIXER	10	1	150	35	3	-	12"	
C-3	SPACE	N/A	N/A	-	-	-	-	15"	
D-1	SLUDGE WASTING PUMP NO.1	3	FVNR	150	15	3	-	12"	
D-2	SLUDGE WASTING PUMP NO.2	3	FVNR	150	15	3	-	12"	
D-3	SURGE PROTECTOR	N/A	N/A	-	-	-	-	6"	
D-4	SPACE	N/A	N/A	-	-	-	-	24"	
D-5	MAIN LUGS	N/A	N/A	-	-	-	-	18"	



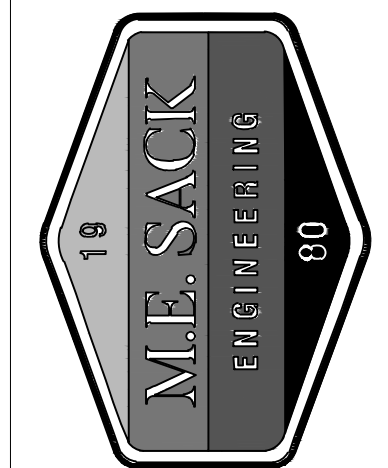
3 MCC-B ELEVATION & SCHEDULE



2 MCC-A ELEVATION & SCHEDULE

MOTOR CONTROL CENTER MCC-A								
VOLTAGE: 480V			PHASE: 3	WIRE: 3	MAIN BUS: 800A		VERT BUS: 300	
BUS BRACING: 65 000			MAX. OVERALL LENGTH: 280"				DEMAND LOAD: 333KVA	
UNIT NO.	EQUIPMENT SERVED	HP	STARTER	CIRCUIT BREAKER			CONTROL S	REMARKS
			SIZE	FRAME	TRIP	POLES		
A-1	SURGE PROTECTOR	N/A	N/A	-	-	-	-	6"
A-2	SPACE	N/A	N/A	-	-	-	-	30"
A-3	MAIN LUGS	N/A	N/A	-	-	-	-	36"
B-1	INFLUENT PUMP NO.1	25	VFD	150	60	3	-	36"
B-2	INFLUENT PUMP NO.2	25	VFD	150	60	3	-	36"
C-1	SPACE - LINE REACTORS	N/A	N/A	-	-	-	-	72"
D-1	INFLUENT PUMP NO.3	25	VFD	150	60	3	-	36"
D-2	IN-LINE PUMP NO.1	30	RVSS	150	80	3	-	36"
E-1	IN-LINE PUMP NO.2	30	RVSS	150	80	3	-	36"
E-2	IN-LINE PUMP NO.3	30	RVSS	150	80	3	-	36"
F-1	DDM MIXER NO.1	15	FVNR	150	40	3	-	36"
F-2	DDM MIXER NO.2	15	FVNR	150	40	3	-	36"
G-1	SBR BLOWER NO.1	50	VFD	150	125	3	-	45"
H-1	HARMONIC MITIGATION	N/A	N/A	-	-	-	-	72"
I-1	SBR BLOWER NO.2	50	VFD	150	125	3	-	45"
J-1	SBR BLOWER NO.3	50	VFD	150	125	3	-	45"
K-1	HARMONIC MITIGATION	N/A	N/A	-	-	-	-	72"
L-1	SBR BLOWER NO.4	50	VFD	150	125	3	-	45"
M-1	DIGESTER BLOWER	40	VFD	150	100	3	-	45"
N-1	HARMONIC MITIGATION	N/A	N/A	-	-	-	-	72"

REVISIONS:	
No.	Description
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WATER POLLUTION CONTROL PLANT

MOTOR CONTROL CENTER ELEVATIONS & SCHEDULES

SHEET: E-6

FILE NO: 2013-36

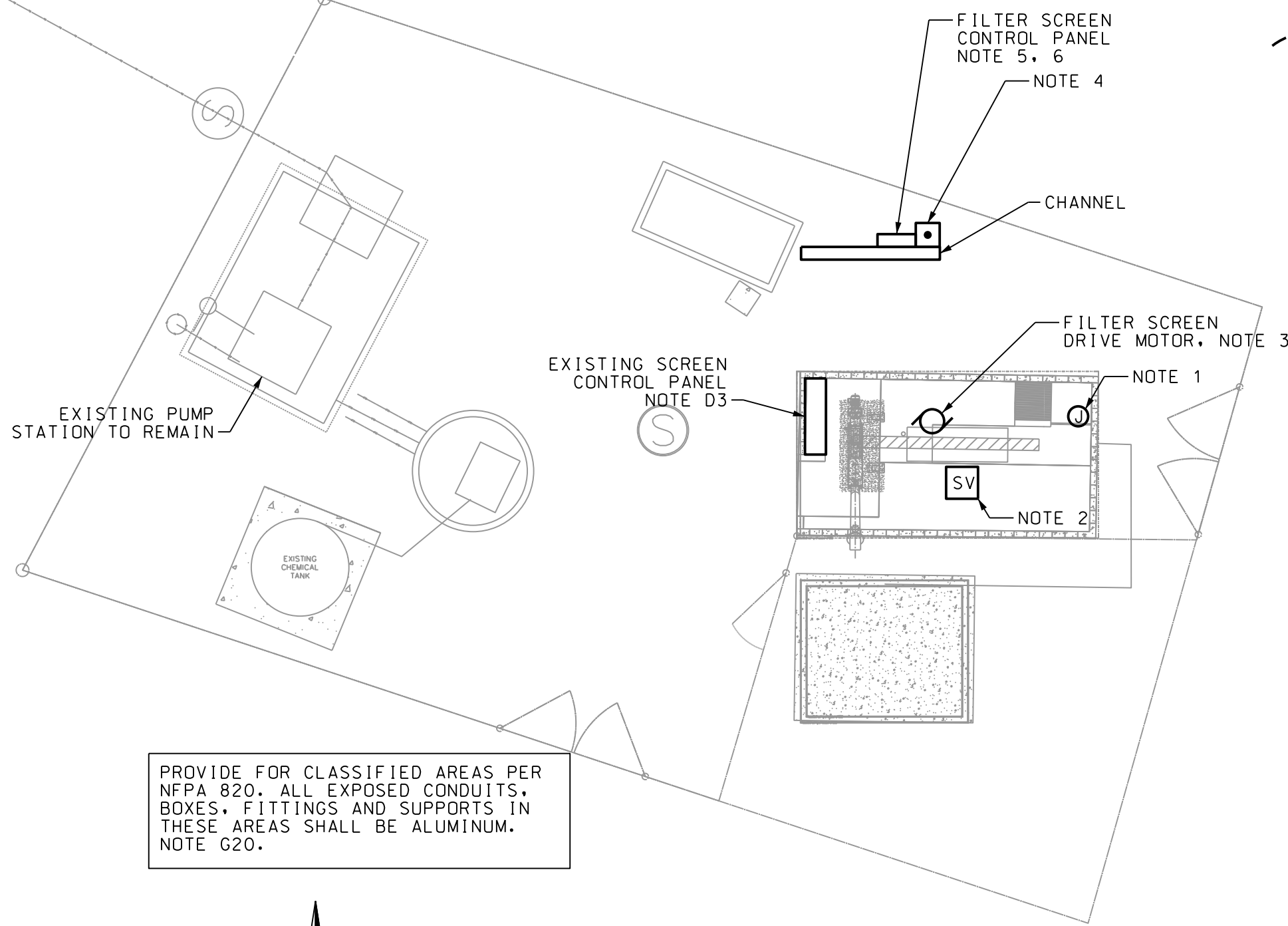
PLOT DATE: September 29, 2023

SCHEDULE OF PANEL 'HA'													
VOLTAGE: 480 / 277 BUS AMPS: 250 A A.I.C RATING: 35,000 A			PHASE: 3 DEVICE AMPS: 250 A MOUNTING: SURFACE			MLO			WIRE: 4 NEMA: 4X				
LOCATION DESCRIPTION	LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD TYPE	LOAD (KVA)	LOCATION DESCRIPTION			
INFLUENT PLUG VALVE NO.1	6.8	F	60A/3P	1	A	2	20A/3P	H	2.5	BAR/FILTER SCREEN CNTL PNL			
23A 460V 3PH	6.8	F	-	3	B	4	-	H	2.5	ONE 2HP, TWO 1/2HP, ONE SV, CNTLS			
-	6.8	F	-	5	C	6	-	H	1.7				
INFLUENT PLUG VALVE NO.2	-	-	60SA/3P	7	A	8	20A/3P	H	2.9	SCREENINGS WASHER/COMPACTOR			
23A 460V 3PH	-	-	-	9	B	10	-	H	2.9	ONE 3HP, TWO SV, CNTLS			
-	-	-	-	11	C	12	-	H	1.4				
WEIR DECANT VALVE NO.1	1.7	H	15A/3P	13	A	14	30A/3P	H	5.0	GRIT REMOVAL UNIT NO.1			
5.7A 460V 3PH	1.7	H	-	15	B	16	-	H	5.0	TWO 3HP BLOWERS, ONE DRIVE, SV,CNTLS			
-	1.7	H	-	17	C	18	-	H	3.5				
WEIR DECANT VALVE NO.2	-	-	15A/3P	19	A	20	30A/3P	H	5.0	GRIT REMOVAL UNIT NO.2			
5.7A 460V 3PH	-	-	-	21	B	22	-	H	5.0	TWO 3HP BLOWERS, ONE DRIVE, SV,CNTLS			
-	-	-	-	23	C	24	-	H	3.5				
EFFLUENT PLUG VALVE NO.1	6.8	G	60A/3P	25	A	26	15A/3P	H	2.1	ODOR CONTROL SYSTEM			
23A 460V 3PH	6.8	G	-	27	B	28	-	H	2.1	1HP BLOWER, SV, CNTLS			
-	6.8	G	-	29	C	30	-	H	0.6				
PREPARED 3P SPACE	-	-	-	31	A	32	45A/3P	H	5.0	PANEL A			
-	-	-	-	33	B	34	-	H	5.3	VIA 30KVA 3PH XFMR T-A			
-	-	-	-	35	C	36	-	H	4.2				
PREPARED 3P SPACE	-	-	-	37	A	38	-	-	-	PREPARED 3P SPACE			
-	-	-	-	39	B	40	-	-	-				
-	-	-	-	41	C	42	-	-	-				
SURGE PROTECTION	-	-	-	43	A	44	-	-	-	PREPARED 3P SPACE			
SQUARE D 120KA	-	-	-	45	B	46	-	-	-				
CAT.NO. HR4MA12C	-	-	-	47	C	48	-	-	-				
OR EQUAL BY GE/ABB OR EATON	-	-	-	49	A	50	-	-	-	PREPARED 3P SPACE			
-	-	-	-	51	B	52	-	-	-				
-	-	-	-	53	C	54	-	-	-				
PANEL LOAD ANALYSIS													
Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference		Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference			
A	Lighting	0.0	0.0	NEC Article 215.3		E	Heating	0.0	0.0	NEC Article 220.60			
B	Receptacles	0.0	0.0	NEC Table 220.44		F	Largest Motor	20.4	25.5	NEC Article 440.7			
C	Kitchen Equipment	0.0	0.0	NEC Table 220.56		G	Other Motors	20.4	20.4	NEC Article 440.7			
D	Air-Conditioning	0.0	0.0	NEC Article 220.60		H	Other Loads	65.0	65.0				
Phase A Connected Load		37.7 KVA	Notes:									TOTAL CONNECTED LOAD	
Phase B Connected Load		38.0 KVA										TOTAL DEMAND LOAD	
Phase C Connected Load		30.1 KVA										MINIMUM SIZING AMPS	
												173.2 KVA	
												208.3 AMPS	

PANEL LOAD ANALYSIS											
Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference	Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference		
A	Lighting	0.0	0.0	NEC Article 215.3	E	Heating	0.0	0.0	NEC Article 220.60		
B	Receptacles	0.0	0.0	NEC Table 220.44	F	Largest Motor	20.4	25.5	NEC Article 440.7		
C	Kitchen Equipment	0.0	0.0	NEC Table 220.56	G	Other Motors	20.4	20.4	NEC Article 440.7		
D	Air-Conditioning	0.0	0.0	NEC Article 220.60	H	Other Loads	65.0	65.0			
Phase A Connected Load		37.7 KVA	Notes:		TOTAL CONNECTED LOAD		155.8 KVA		172.2 AMPS		
Phase B Connected Load		38.0 KVA			TOTAL DEMAND LOAD		110.9 KVA		133.3 AMPS		
Phase C Connected Load		30.1 KVA			MINIMUM SIZING AMPS		173.2 KVA		208.3 AMPS		

SCHEDULE OF PANEL 'HB' FILTER & UV												
VOLTAGE: 480 / 277 BUS AMPS: 125 A A.I.C RATING: 14,000 A			PHASE: 3 DEVICE AMPS: 125 A MOUNTING: SURFACE						WIRE: 4 NEMA: 4X			
			LOAD (KVA)			LOAD TYPE			LOAD (KVA)			
LOCATION DESCRIPTION			LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD TYPE	LOAD (KVA)	LOCATION DESCRIPTION
DISK FILTER CONTROL PANEL NO.1			2.8	H	20A/3P	1	A	2	15A/3P	H	1.5	UV TRAIN NO.1 PDC
14.65FLA 460V 3PH			2.8	H	-	3	B	4	-	H	1.5	4.6KVA 480V 3PH
19.6A STARTING/18.31MCA			1.3	H	-	5	C	6	-	H	1.5	5.5FLA
DISK FILTER CONTROL PANEL NO.2			2.8	H	20A/3P	7	A	8	15A/3P	H	1.5	UV TRAIN NO.2 PDC
14.65FLA 460V 3PH			2.8	H	-	9	B	10	-	H	1.5	4.6KVA 480V 3PH
19.6A STARTING/18.31MCA			1.3	H	-	11	C	12	-	H	1.5	5.5FLA
PANEL B			4.1	H	40A/2P	13	A	14	15A/3P	H	0.8	HYDRAULIC SYSTEM CENTER
VIA 15KVA 1PH XFMR T-B			2.2	H	-	15	B	16	-	H	0.8	2.5KVA 480V 3PH
PREPARED 3P SPACE			-	-	-	17	C	18	-	H	0.8	3.0FLA
-			-	-	-	19	A	20	-	-	-	PREPARED 3P SPACE
-			-	-	-	21	B	22	-	-	-	-
PREPARED 3P SPACE			-	-	-	23	C	24	-	-	-	-
-			-	-	-	25	A	26	-	-	-	PREPARED 3P SPACE
-			-	-	-	27	B	28	-	-	-	-
PREPARED SPACE			-	-	-	29	C	30	-	-	-	-
SURGE PROTECTION			-	-	-	31	A	32	-	-	-	PREPARED 3P SPACE
SQUARE D 120KA			-	-	-	33	B	34	-	-	-	-
CAT. NO. HR4MA12C			-	-	-	35	C	36	-	-	-	-
OR EQUAL BY GE/ABB OR EATON			-	-	-	37	A	38	-	-	-	PREPARED 3P SPACE
-			-	-	-	39	B	40	-	-	-	-
-			-	-	-	41	C	42	-	-	-	-
PANEL LOAD ANALYSIS												
Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference	Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference			
A	Lighting	0.0	0.0	NEC Article 215.3	E	Heating	0.0	0.0	NEC Article 220.60			
B	Receptacles	0.0	0.0	NEC Table 220.44	F	Largest Motor	0.0	0.0	NEC Article 440.7			
C	Kitchen Equipment	0.0	0.0	NEC Table 220.56	G	Other Motors	0.0	0.0	NEC Article 440.7			
D	Air-Conditioning	0.0	0.0	NEC Article 220.60	H	Other Loads	31.8	31.8				
		13.6 KVA			TOTAL CONNECTED LOAD		31.8 KVA	31.8	38.3 AMPS			
Phase A Connected Load		11.7 KVA			TOTAL DEMAND LOAD		31.8 KVA	31.8	38.3 AMPS			
Phase B Connected Load		6.5 KVA			MINIMUM SIZING AMPS		49.8 KVA	59.8 AMPS				

SCHEDULE OF PANEL 'HC' BELT PRESS & DIGESTER											
VOLTAGE: 480 / 277 BUS AMPS: 125 A A.I.C RATING: 14,000 A			PHASE: 3 DEVICE AMPS: 100 A MOUNTING: SURFACE				MCB		WIRE: 3 NEMA: 4X		
LOCATION DESCRIPTION		LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD TYPE	LOAD (KVA)	LOCATION DESCRIPTION
BELT PRESS		9.9	F	60A/3P	1	A	2	40A/2P	H	3.7	PANEL C
40.4FLA 460V 3PH		9.8	F	-	1	B	4	-	G	3.0	15KVA 1PH XMFRR T-C
7.5HP,5HP,3HP,1HP		9.8	F	-	5	C	6	15A/3P	G	1.3	DIGESTER SLUDGE PUMP
SCREW CONVEYOR		1.3	G	15A/3P	7	A	8	-	G	1.3	4.5FLA 460V 3PH
4.5FLA 460V 3PH		1.3	G	-	9	B	10	-	G	1.3	3HP
3HP		1.3	G	-	11	C	12	-	-	-	PREPARED SPACE
LOADOUT SCREW CONVEYOR		1.3	G	15A/3P	13	A	14	-	-	-	PREPARED 3P SPACE
4.5FLA 460V 3PH		1.3	G	-	15	B	16	-	-	-	-
3HP		1.3	G	-	17	C	18	-	-	-	-
PREPARED 3P SPACE		-	-	-	19	A	20	-	-	-	PREPARED 3P SPACE
-		-	-	-	21	B	22	-	-	-	-
-		-	-	-	23	C	24	-	-	-	-
SURGE PROTECTION		25	A	25	25	A	26	-	-	-	PREPARED 3P SPACE
SQUARE D 120KA		27	B	28	-	-	-	-	-	-	-
CAT.NO. HR4HMA12C		29	C	30	-	-	-	-	-	-	-
OR EQUAL BY GE/ABB OR Eaton		31	A	32	-	-	-	-	-	-	PREPARED 3P SPACE
-		33	B	34	-	-	-	-	-	-	-
-		35	C	36	-	-	-	-	-	-	-
PANEL LOAD ANALYSIS											
Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference	Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference	2017 NEC	
A	Lighting	0.0	0.0	NEC Article 215.3	E	Heating	0.0	0.0	NEC Article 220.60	48.1 KVA	57.9 AMPS
B	Receptacles	0.0	0.0	NEC Table 220.44	F	Largest Motor	29.5	36.8	NEC Article 440.7	55.5 KVA	66.7 AMPS
C	Kitchen Equipment	0.0	0.0	NEC Table 220.56	G	Other Motors	12.0	12.0	NEC Article 440.7	86.7 KVA	104.3 AMPS
D	Air-Conditioning	0.0	0.0	NEC Article 220.60	H	Other Loads	6.7	6.7			
Phase A Connected Load		17.5 KVA	Notes:	TOTAL CONNECTED LOAD				48.1 KVA		57.9 AMPS	
Phase B Connected Load		16.8 KVA		TOTAL DEMAND LOAD				55.5 KVA		66.7 AMPS	
Phase C Connected Load		13.8 KVA		MINIMUM SIZING AMPS				86.7 KVA		104.3 AMPS	

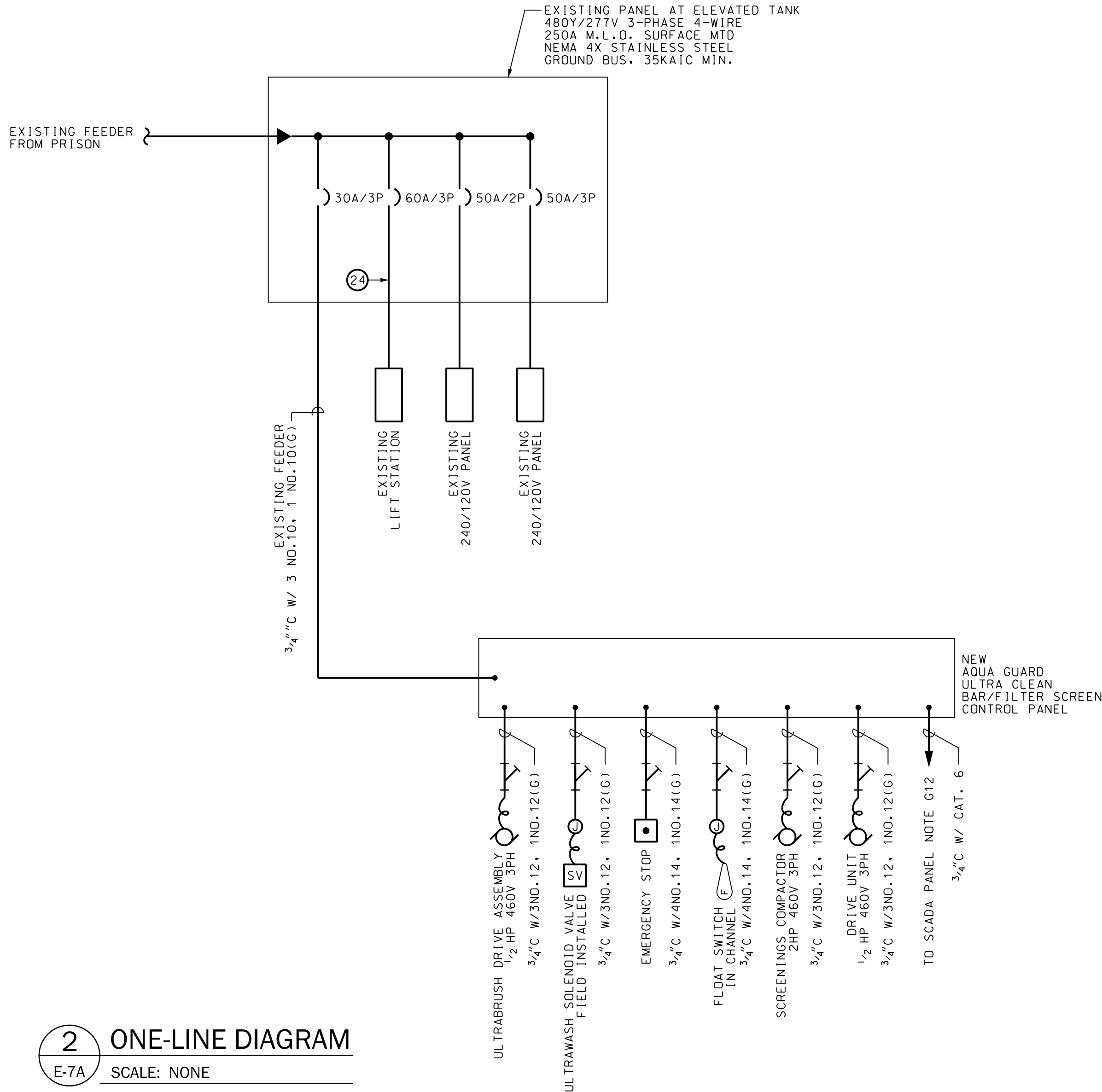


1 SITE PLAN - ELECTRICAL
E-7A SCALE: 1" = 10' - 0"

- LEGEND:
- EQUIPMENT AS NOTED
 - CIRCUIT BREAKER
 - CONDUIT SYSTEM CONCEALED BELOW GRADE
 - PUMP MOTOR, HORSEPOWER INDICATED
 - GROUND ROD LOCATION
 - EYS SEAL-OFF FITTING

- NOTES:
- FILTER SCREEN AND COMPACTOR
- FILTER SCREEN FLOAT SWITCH JUNCTION BOX CONNECTION, FLOAT SWITCH PROVIDED WITH EQUIPMENT. FIELD COORDINATE LOCATION AND CONNECTION TO FLOAT. PROVIDE JUNCTION BOX AND NON-METALLIC CORD GRIP FOR TERMINATION OF FLOAT CABLE INTO JUNCTION BOX.
 - FILTER SCREEN ULTRASWASH SOLENOID VALVE, PROVIDED AND FIELD INSTALLED BY OTHERS, ELECTRICAL CONNECTION BY DIV.16. COORDINATE WITH EQUIPMENT PROVIDED.
 - FILTER SCREEN DRIVE MOTOR, FURNISHED WITH EQUIPMENT, FIELD INSTALLED BY OTHERS, FIELD COORDINATE CONNECTION TO BARSscreen CONTROL PANEL.
 - FILTER SCREEN DRIVE EMERGENCY STOP, FURNISHED WITH EQUIPMENT, FIELD INSTALLED AND WIRED BY DIV.16. FIELD COORDINATE MOUNTING LOCATION.
 - FILTER SCREEN CONTROL PANEL, FURNISHED WITH EQUIPMENT. FIELD COORDINATE LOCATION WITH EQUIPMENT AND OTHER TRADES. MOUNT ON 304 STAINLESS STEEL CHANNEL FRAME. REFER TO ONE-LINE DIAGRAM FOR ELECTRICAL CONNECTIONS. REFER TO SCADA RISER FOR COMMUNICATIONS CONNECTIONS.
 - MOUNT EQUIPMENT ON 304 STAINLESS STEEL CHANNEL FRAME. FIELD COORDINATE LOCATION WITH CIVIL DRAWINGS AND OTHER TRADES.

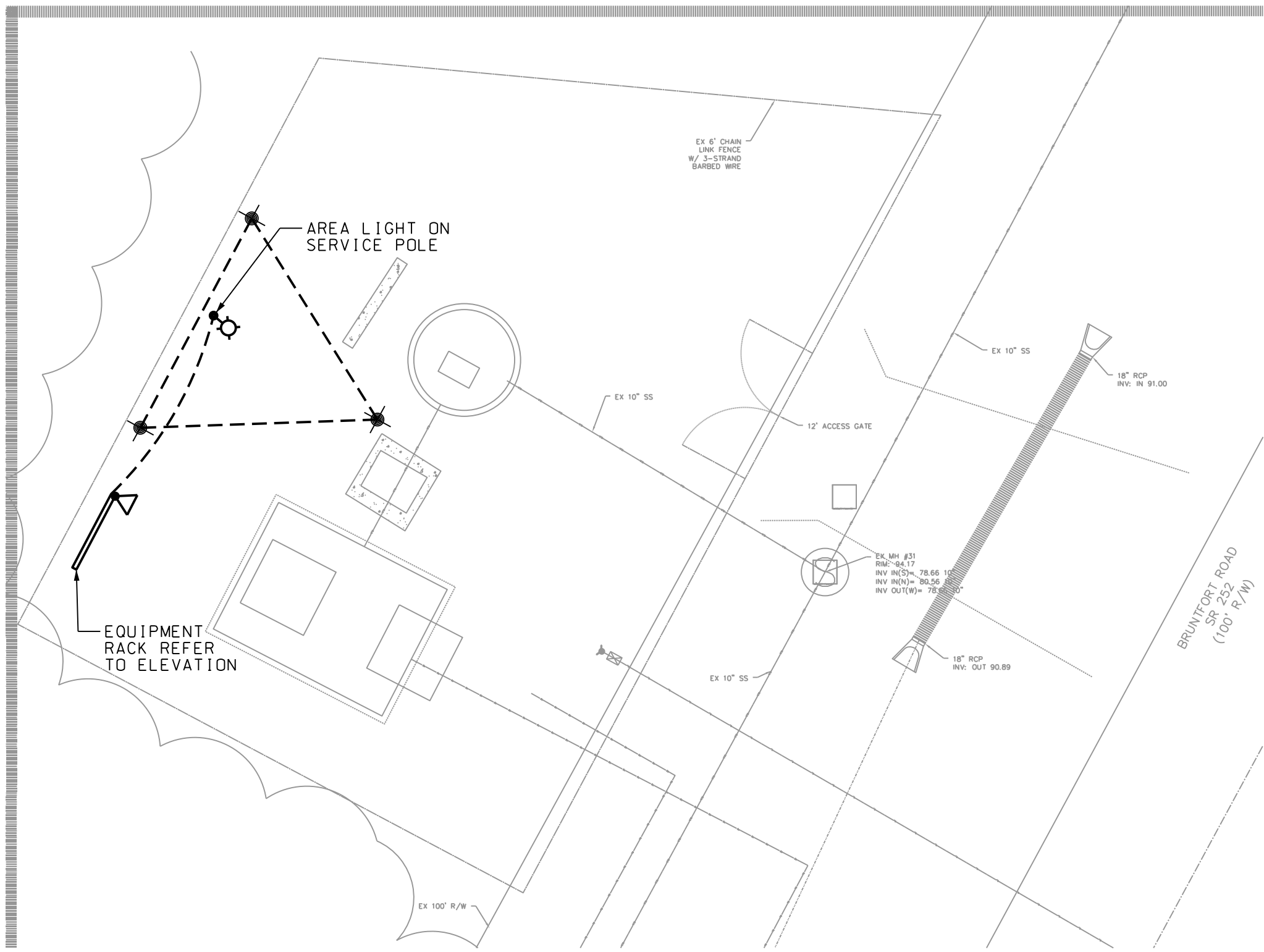
- DEMOLITION NOTES:
- THE EXISTING ELECTRICAL SYSTEM IS SERVED FROM THE ADJACENT FEDERAL PRISON. COORDINATE WITH THE PRISON WARDEN AND STAFF; CONTACT D. RAY JAMES CORRECTIONAL FACILITY AT 912-496-6242.
 - THE EXISTING PUMP STATION SHALL REMAIN IN SERVICE WITHOUT INTERRUPTION.
 - THE EXISTING SCREEN CONTROL PANEL SHALL BE DEMOLISHED. THE FEEDER SHALL REMAIN FOR REUSE. COORDINATE SCHEDULE WITH OWNER AND GENERAL CONTRACTOR.



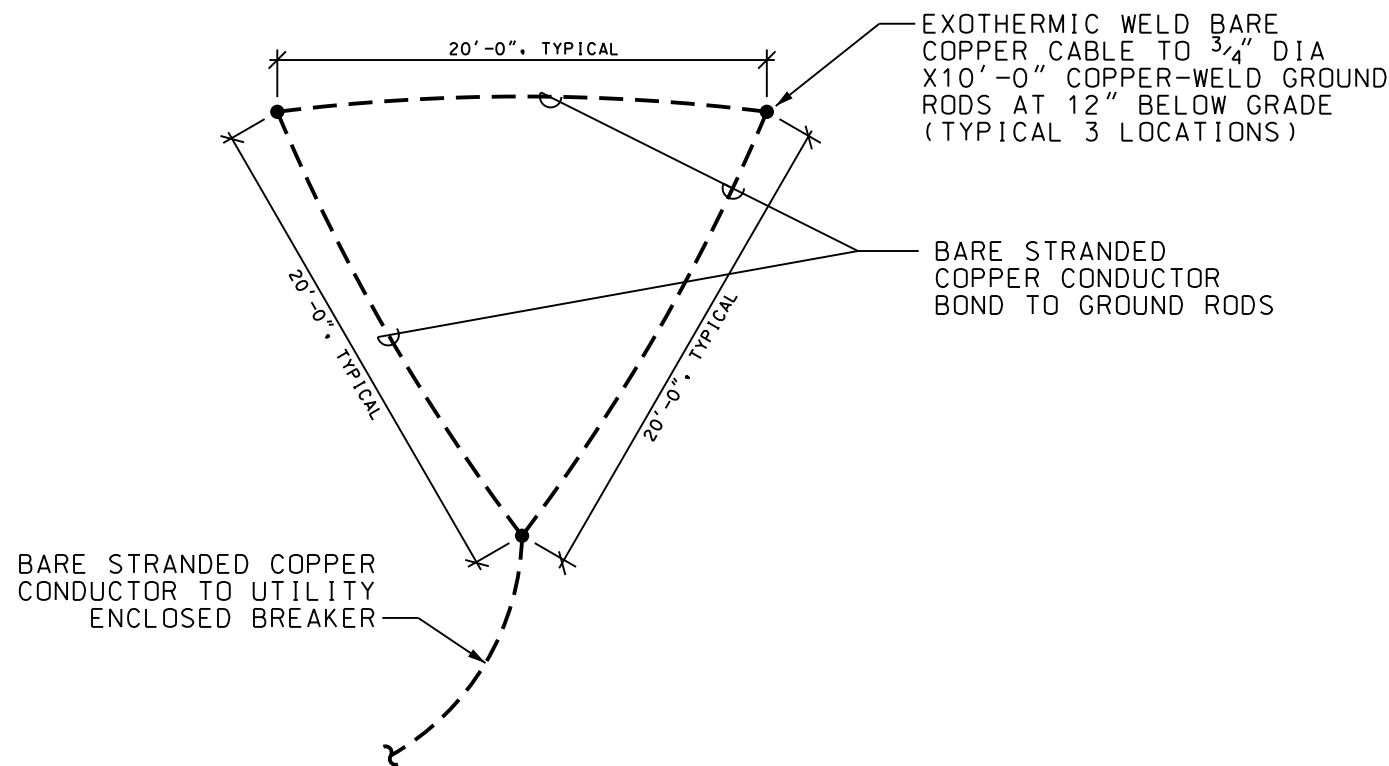
2 ONE-LINE DIAGRAM
E-7A SCALE: NONE

- GENERAL NOTES:
- THE EXISTING EQUIPMENT IS SERVED FROM THE 480Y/277V 3-PHASE 4-WIRE PANEL LCOATED OUTSIDE OF THE WELL BUILDING.
 - ALL CONDUITS INSTALLED EXPOSED TO ATMOSPHERE SHALL BE ALUMINUM RIGID CONDUIT (ARC). ALL CONDUITS INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC. ALL ELBOWS BELOW GRADE TO BE ARC.
 - TERMINATE CONDUITS WITH THREADED HUBS. ALL LOCATIONS.
 - THE EXISTING 30A/3P, 3/4" C W/ 3 NO.10, 1 NO.10(G) CIRCUIT FOR THE EXISTING SCREEN SHALL BE REUSED WITH THE NEW SCREEN EQUIPMENT.
 - CIRCUIT BREAKER AND SWITCH OPERATING HANDLES SHALL BE A MAXIMUM OF 66" ABOVE FINISHED GRADE. LOCATE EQUIPMENT WHERE INDICATED.
 - ALL ATTACHMENT HARDWARE SHALL BE 304 STAINLESS STEEL.
 - FIELD COORDINATE THE ARRANGEMENT OF THE ELECTRICAL EQUIPMENT WITH THE CIVIL DRAWINGS AND WITH OTHER TRADES ON THE PROJECT.
 - FOR ALL METALLIC CONDUITS AND ALL EQUIPMENT FRAME STRUCTURAL SUPPORTS, EITHER IN CONTACT WITH EARTH OR INCASED IN CONCRETE, SHALL BE PROTECTED AGAINST CORROSION. APPLY TWO COATS OF SCOTCHRAP PIPE PRIMER AND TWO OVERLAPPING LAYERS OF SCOTCHRAP 51 (20MIL) CORROSION PROTECTIVE TAPE. ALLOW PIPE PRIMER TO CURE BETWEEN APPLICATIONS. APPLY FROM END OF METAL TO 6" ABOVE GRADE OR CONCRETE.
 - LOCATE CONTROL PANELS AND BOXES TEN (10) FEET FROM INFLUENT CHANNELS. MOUNT ALL EQUIPMENT 18" ABOVE GRADE AND/OR STRUCTURE. NO FITTINGS SHALL BE PLACED WITHIN 18" OF GRADE OR STRUCTURE.

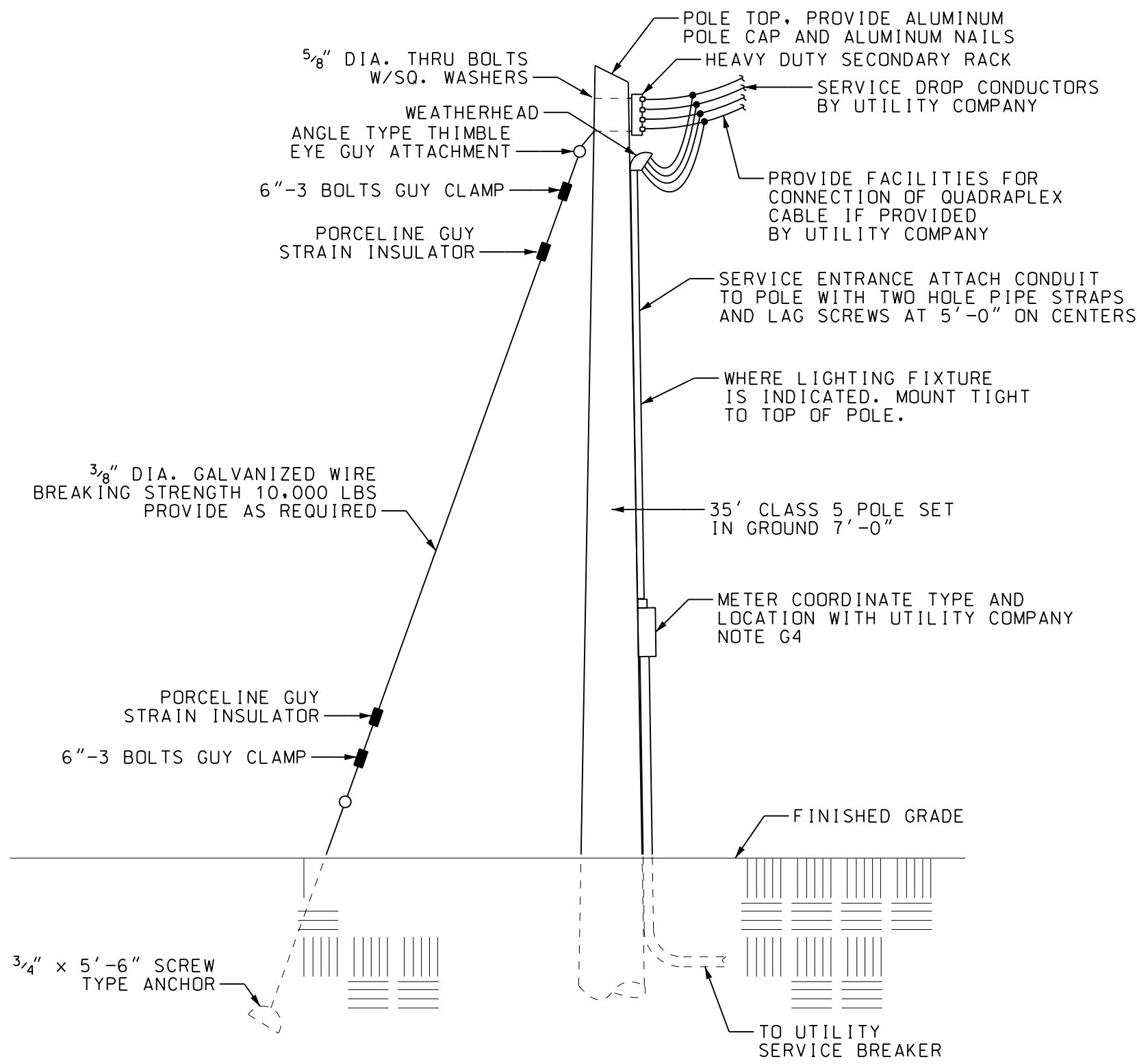
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MUNICIPALITY: CITY OF FOLKSTON	
COUNTY: CHARLTON COUNTY	
OWNER: CITY OF FOLKSTON 541 FIRST STREET FOLKSTON, GA 31537 (912) 496-2563 penderfloyd@yahoo.com	
24 HOUR CONTACT: LEONARD LLOYD 541 FIRST STREET FOLKSTON, GA 31537 (912) 496-2563 penderfloyd@yahoo.com	
WATER POLLUTION CONTROL PLANT	
PRISON - ELECTRICAL SITE PLAN, DETAILS, & NOTES	
SHEET:E-7	
FILE NO: 2013-36	
PLOT DATE: September 29, 2023	



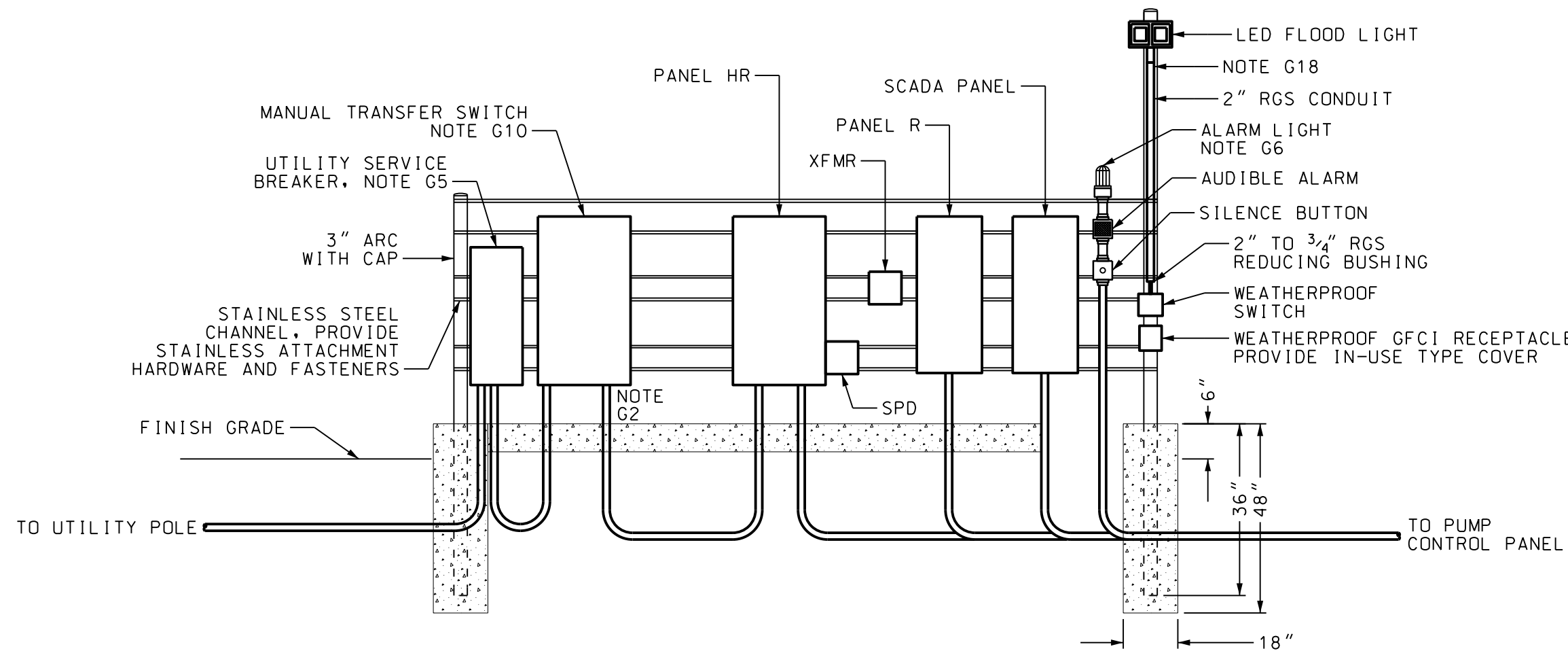
1 SITE PLAN - ELECTRICAL
E-7A SCALE: 1" = 10' - 0"



2 SECONDARY ELECTRICAL GROUNDING
E-7A SCALE: NONE



3 SERVICE POLE DETAIL
E-7A SCALE: NONE



4 EQUIPMENT RACK - ELEVATION
E-7A SCALE: NONE

LEGEND:

- EQUIPMENT AS NOTED
- CIRCUIT BREAKER
- 20A DUPLEX RECEPTACLE, NEMA 5-20R
- WP WEATHERPROOF IN-USE COVER (FOR RECEPTACLE)
- GROUND TO GROUND ROD SYSTEM
- GF GROUND FAULT CIRCUIT INTERRUPTER PROTECTION
- AIC INTERRUPTING CAPACITY IN AMPS
- CONDUIT SYSTEM CONCEALED BELOW GRADE
- PUMP MOTOR, HORSEPOWER INDICATED
- AREA LIGHT AND SERVICE POLE, NOTE G7
- SURGE PROTECTION DEVICE - LSS/ASCO LTS SERIES CAT NO. LTS-480D-20CAJ2
- REDUCED VOLTAGE SOLID STATE STATER WITH INTEGRAL SHORTING CONTACTOR
- 20A 120/277V INDUSTRIAL DUTY TOGGLE SWITCH
- GROUND ROD LOCATION
- FLOODLIGHT
- C-H TYPE EYS SEALING FITTING

GENERAL NOTES:

- 480Y/277V DELTA 3-PHASE 4-WIRE SERVICE BY GEORGIA POWER. COORDINATE SERVICE WITH BRIAN PAGE, DISTRIBUTION ENGINEER, 229-560-0820.
- ALL CONDUITS INSTALLED EXPOSED TO ATMOSPHERE SHALL BE ALUMINUM RIGID CONDUIT (ARC). ALL CONDUITS INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC. ALL ELBOWS BELOW GRADE TO BE ARC.
- TERMINATE CONDUITS WITH THREADED HUBS, ALL LOCATIONS.
- FIELD COORDINATE THE LOCATION OF THE METER AND SERVICE POLE WITH THE LOCAL POWER UTILITY AND OTHER WORK ON THE PROJECT SITE.
- CIRCUIT BREAKER AND SWITCH OPERATING HANDLES SHALL BE A MAXIMUM OF 66" ABOVE FINISHED GRADE. LOCATE EQUIPMENT WHERE INDICATED.
- LOCATE ALARM LIGHT SO THAT IT CAN BE SEEN FROM THE NEAREST ROAD. EXACT ORIENTATION SHALL BE DETERMINED IN FIELD FOR BEST VIEW OF ALARM LIGHT. MOUNT ON CONDUIT MAIN ATTACHED TO THE EQUIPMENT FRAME, 8' ABOVE FINISH GRADE.
- AREA LIGHT AND WOOD SERVICE POLE. EXTEND SERVICE CONDUCTORS FROM THE WEATHERHEAD, TO THE MAIN BREAKER. EXTEND A BRANCH CIRCUIT TO THE YARD LIGHT FROM PANEL R.
- ALL ATTACHMENT HARDWARE SHALL BE 304 STAINLESS STEEL.
- FIELD COORDINATE THE ARRANGEMENT OF THE ELECTRICAL EQUIPMENT WITH THE ELECTRICAL UTILITY, THE CIVIL DRAWINGS AND WITH OTHER TRADES ON THE PROJECT.
- THE MANUAL TRANSFER SWITCH AND GENERATOR QUICK CONNECTION PANEL SHALL BE A CROUSE-HINDS QCDT QUICK-CONNECT DOUBLE-THROW MANUAL TRANSFER SWITCH WITH POSI-LOCK CABLE CONNECTIONS. FURNISH CAT. NO. DT-3-6-5-U-U-3X(STAINLESS STEEL)-K-N-LPR.
- OMITTED.
- OMITTED.
- LOCATE WITHIN CONTROL PANEL.
- FOR PUMP CONTROL PANEL INTEGRAL CONTROLS.
- SCADA PANEL BY C21.
- PROVIDE 1 1/2" C W/ CONDUCTORS AS REQUIRED FOR ALARMS.
- PROVIDE NON-METALLIC, ARAMID FIBER, DOUBLE WEAVE, HEAVY DUTY, SINGLE EYE CABLE PULLING GRIPS FOR THE FLOATS IN THE WET WELL. PROVIDE A STAINLESS STEEL SUPPORT BRACKET INSIDE THE WET WELL.
- FLOOD LIGHT SHALL BE MOUNTED ON MAST 10FT MINIMUM SUCH THAT THE FLOOD LIGHT IS NOT OBSTRUCTED.
- FOR ALL METALLIC CONDUITS AND ALL EQUIPMENT FRAME STRUCTURAL SUPPORTS, EITHER IN CONTACT WITH EARTH OR INCASED IN CONCRETE, SHALL BE PROTECTED AGAINST CORROSION. APPLY TWO COATS OF SCOTCHRAIP PIPE PRIMER AND TWO OVERLAPPING LAYERS OF SCOTCHRAIP 51 (20MIL) CORROSION PROTECTIVE TAPE. ALLOW PIPE PRIMER TO CURE BETWEEN APPLICATIONS. APPLY FROM END OF METAL TO 6" ABOVE GRADE OR CONCRETE.

REVISIONS:

NO.	DESCRIPTION	DATE

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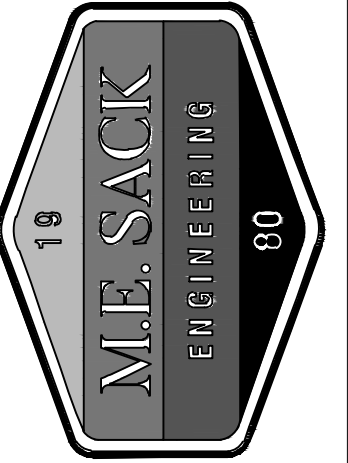
DESIGN PROFESSIONAL:

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GEORGIA
REGISTERED PROFESSIONAL
No. 032192
29 SEP 2023
MARCUS E. SACK
CHARLES B. COBB

DATE: _____



MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON COUNTY

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WATER POLLUTION CONTROL PLANT

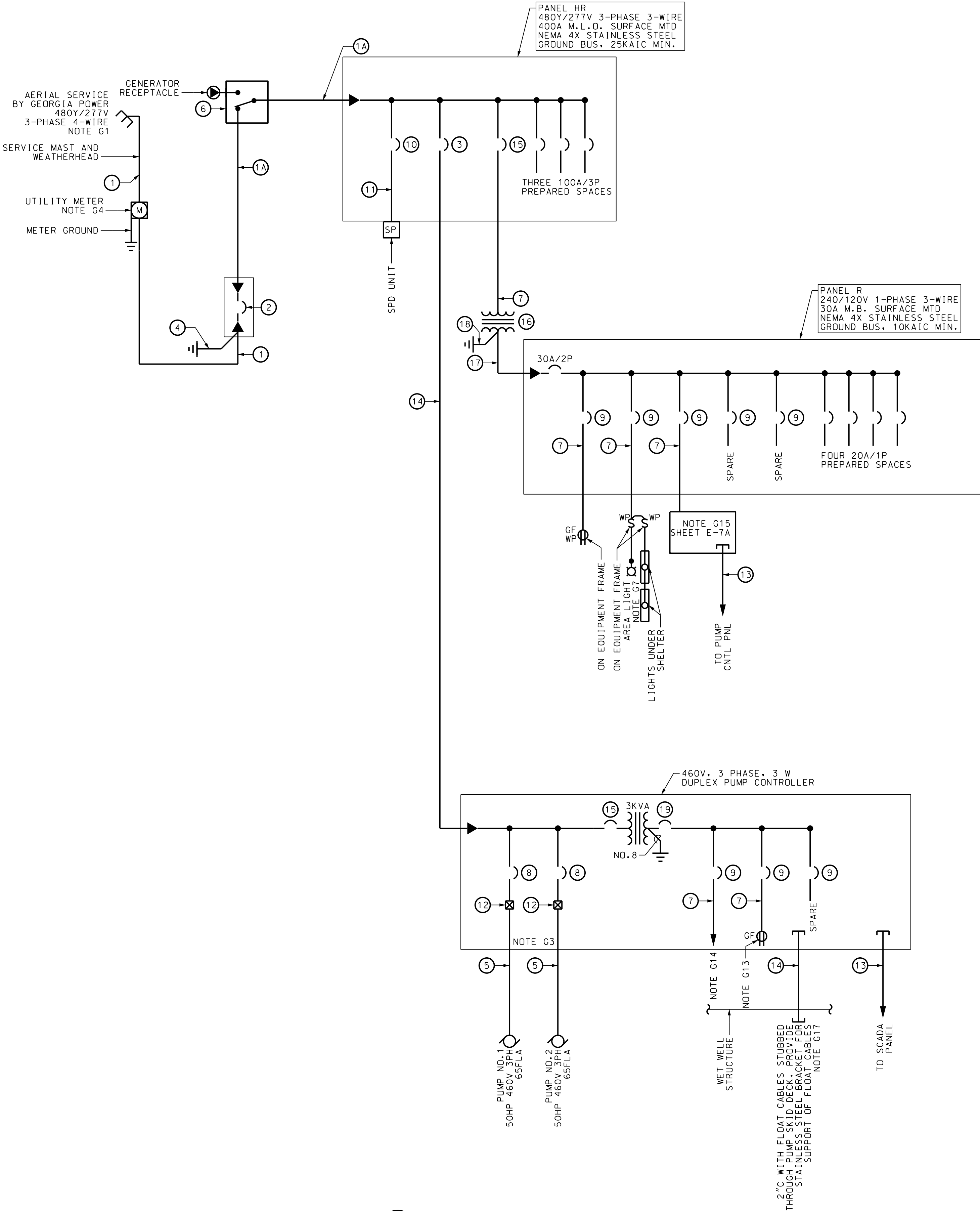
SR 252 - ELECTRICAL
SITE PLAN, DETAILS,
& NOTES

SHEET: E-7A
FILE NO: 2013-36
PLOT DATE: September 29, 2023



109 PARK OF COMMERCE DRIVE, SUITE 6
SAVANNAH, GEORGIA 31405 (912) 238-2400

DUPLIX PUMP STATION ONE LINE SCHEDULE - SUCTION LIFT	
ITEM#	50 HP, 460V, 3 PH, 63 FLA
①	3" C. W/ 4 NO.250MCM
①A	3" C. W/ 4 NO.250MCM, 1 NO.4(G)
②	250/3P NEMA 4X SS ENCLOSED BREAKER W/ SERVICE LABEL, INS. NEUTRAL, BONDING JUMPER AND GROUND LUG. 25 000 A.I.C. MIN. @480V
③	225A/3P CONTROL PANEL BREAKER 25 000 MIN. A.I.C. @ 480V.
④	3/4" C. W/ 1 NO.2(G)
⑤	1 1/2" C W/3 NO.3, 1 NO.6(G),
⑥	400A/4P MANUAL TRANSFER SWITCH NEMA 4XSS ENCLOSURE, NOTE G10
⑦	3/4" C. W/ 2 NO.12, 1 NO.12(G)
⑧	125A/3P MOTOR CIRCUIT BREAKER 35 000 MIN. A.I.C. @ 480V.
⑨	20A/1P CIRCUIT BREAKER, 10 000 MIN. A.I.C. @ 120V
⑩	40A/3P CIRCUIT BREAKER, 25 000 MIN. A.I.C @ 480V
⑪	1 1/2" C W/ 3 NO.8, 1 NO.8(G), CONDUCTORS SHALL NOT EXCEED 18" IN LENGTH
⑫	REDUCED VOLTAGE SOLID STATE STARTER FOR 50 HP, 460V, 3-PHASE MOTOR. SELECT FOR HIGH-TORQUE CONDITION
⑬	3/4" C W/6NO.14, 1NO.14(G) FOR PUMP STATION ALARM ANNUNCIATION
⑭	2" C W/ FLOAT CABLES STUBBED THROUGH PUMP SKID DECK INTO WETWELL. NOTE G17
⑮	15A/2P CIRCUIT BREAKER, 25 000 MIN. A.I.C @ 480V
⑯	5KVA 1PH TRANSFORMER 480V PRI, 240/120V SEC. STAINLESS STEEL NEMA 3R ENCLOSURE
⑰	3/4" C W/ 3 NO.10, 1 NO.10(G)
⑱	3/4" SCH.80 PVC W/ 1 NO.8(G)
⑲	20A/2P CIRCUIT BREAKER, 10 000 MIN. A.I.C @ 240V



① ONE-LINE DIAGRAM
E-7B SCALE: NONE

CADD PLOT
29-SEP-2023
13:27
LCAULEY

CHATHAM
ENGINEERING

109 PARK OF COMMERCE DRIVE, SUITE 6
SAVANNAH, GEORGIA 31405 (912)238-2400

REVISIONS:

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WATER POLLUTION
CONTROL PLANT

SR 252 ONE-LINE
DIAGRAM

SHEET: E-7B

FILE NO: 2013-36



PLOT DATE: September 29, 2023

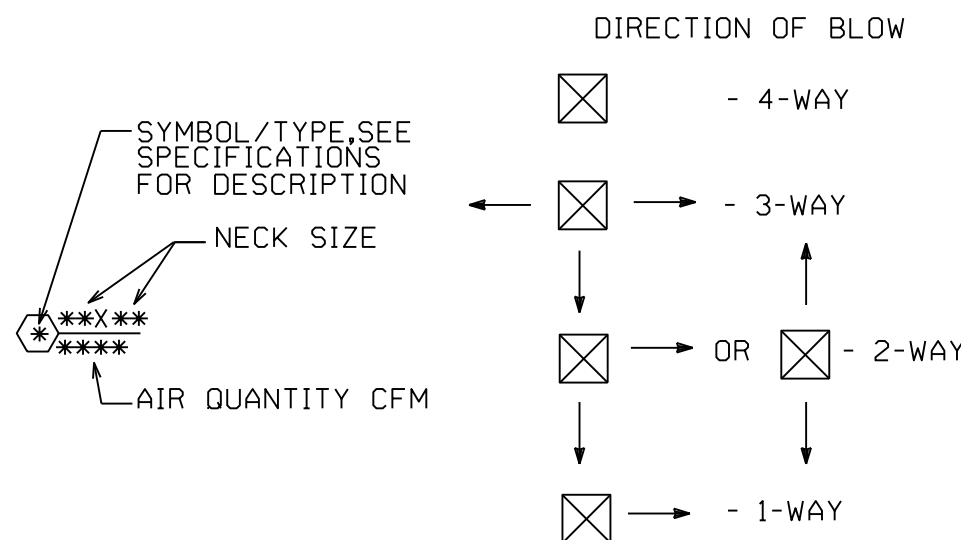
DESIGN CONDITIONS

LEGEND & ABBRE		
ABBREVIATION	SYMBOL	DESCRIPTION
		SWITCH
GV		GATE VALVE
CV		CHECK VALVE
		UNION
		DUCT TRANSITION
		ROUND
		DIRECTION OF FLOW
T'STAT		THERMOSTAT
		SINGLE LINE DUCT
		FLEXIBLE DUCT

ABBREVIATION	DESCRIPTION
AB	ABOVE
A/C	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
B/F	BELOW FLOOR
DN	DOWN
DWGS	DRAWINGS
ELEC	ELECTRICAL
L	LOUVER
TYP	TYPICAL
U/G	UNDERGROUND
ETR	EXISTING TO REMAIN
HP	HEAT PUMP
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
EF	EXHAUST FAN
HVAC	HEATING VENTILATING & AIR CONDITIONING
EXH	EXHAUST
AHU	AIR HANDLER UNIT
UH	UNIT HEATER
WHU	WALL HUNG UNIT

AIR DISTRIBUTION DEVICES

SYMBOL	LOCATION	FUNCTION	TYPE	SURFACE TYPE
	CEILING/ WALL	RETURN/ EXHAUST	LOUVERED FACE	SURFACE MOUNT
	CEILING	SUPPLY	LOUVERED FACE	SURFACE MOUNT



LOUVER

SYMBOL	UH-1	UH-2
TYPE	HORIZONTAL	HORIZONTAL
CAPACITY, KW	3.0	5.0
MOUNTING HEIGHT TO BOTTOM, FT.	7'-0"	7'-0"
LOCATION	LAB ELEC ROOM	CHEMICAL FEED
ELECTRICAL CHARACTERISTICS	SEE ELEC DRAWINGS	SEE ELEC DRAWINGS
REMARKS	①	①

SYMBOL	L-1	L-2	L-3
TYPE	INTAKE	INTAKE	INTAKE
AIRFLOW, CFM	400	1,000	1,000
FREE AREA, SQ FT	0.56	1.33	1.33
APPROXIMATE SIZE, WIDTH X HEIGHT, INCH	12 X 18	18 X 24	18 X 24
PRESSURE DROP, IN. H ₂ O	0.100	0.100	0.100
MOUNTING HEIGHT AFF TO BOTTOM OF LOUVER	2'-6"	2'-6"	8'-0"
LOCATION	CHEMICAL FEED	BLOWER BUILDING	BLOWER BUILDING
REMARKS	①	①	①

- ① UNIT HEATER SHALL BE Q-MARK MODEL: MUH OR APPROVED EQUAL HORIZONTAL DISCHARGE ELECTRIC HEATER. PROVIDE UNIT HEATER WITH INTERNAL THERMOSTAT AND WALL MOUNT BRACKET.

- ① LOUVER SHALL BE GREENHECK MODEL: ESJ-602 OR APPROVED EQUAL 6" DEEP J BLADE STATIONARY ALUMINUM LOUVER. PROVIDE LOUVER WITH INSECT SCREEN. RUSKIN IS AN APPROVED EQUAL.

SPLIT SYSTEM UNITS

SYMBOL		AHU-1/HP-1
TYPE		VERTICAL
TOTAL CFM		1,110
MINIMUM OUTSIDE AIR, CFM		110
EXTERNAL STATIC PRESSURE, IN. H ₂ O		0.500
COOLING	TOTAL CAPACITY BTU/HR	30,300
	SENSIBLE CAPACITY BTU/HR	24,100
	ENT. AIR DB. °F	75.0
	ENT. AIR WB. °F	63.0
	COND. AMBIENT TEMP., °F	94.0
	MINIMUM (SEASONAL) EER	14.0
HEATING	TOTAL CAPACITY BTU/HR	23,200
	ENT. AIR DB. °F	65.6
	LVG. AIR DB. °F	85.0
	AMBIENT AIR TEMP., °F	26.0
	MINIMUM COP	2.3 @ 17°F
AUX. HEAT	CAPACITY kW	3.6
	NO. OF STAGES	1
LOCATION		ELECTRICAL ROOM
ELECTRICAL CHARACTERISTICS		SEE ELEC DRAWINGS
REMARKS		① ②

- ① SPLIT SYSTEM SHALL BE TRANE.
MODEL: 4TWR4/TEM4 OR APPROVED
EQUAL SPLIT SYSTEM HEAT PUMP.
PROVIDE UNIT WITH WIRED 7-DAY
PROGRAMMABLE AUTO-CHANGEOVER
THERMOSTAT. CARRIER AND
DAIKIN ARE APPROVED EQUALS.
- ② FAN SHALL RUN CONTINUOUSLY
DURING OCCUPIED HOURS. UNIT
SHALL CYCLE COMPRESSOR,
REVERSING VALVE, AND STRIP
HEAT AS REQUIRED TO MAINTAIN
SET POINT.

EXHAUST FANS

SYMBOL	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6
TYPE	CEILING CENTRIFUGAL	CEILING CENTRIFUGAL	CEILING CENTRIFUGAL	FIBERGLASS WALL MOUNT	SIDEWALL	SIDEWALL
CFM	100	100	200	400	1,000	1,000
EXTERNAL STATIC PRESSURE, IN. H ₂ O	0.375	0.375	0.375	0.250	0.250	0.250
MAXIMUM SONES	1.5	1.5	2.5	---	9.4	9.4
MAXIMUM FAN SPEED, RPM	800	800	975	1,140	1,750	1,750
MAXIMUM OUTLET VELOCITY, FPM	---	---	---	---	---	---
MAXIMUM MOTOR POWER	130 W	130 W	90 W	1/8 HP	1/4 HP	1/4 HP
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
LOCATION	WOMEN'S RESTROOM	MEN'S RESTROOM	ELECTRICAL CLOSET	CHEMICAL FEED	BLOWER BUILDING	BLOWER BUILDING
ELECTRICAL CHARACTERISTICS	SEE ELEC DRAWINGS	SEE ELEC DRAWINGS	SEE ELEC DRAWINGS	SEE ELEC DRAWINGS	SEE ELEC DRAWINGS	SEE ELEC DRAWINGS
REMARKS	①	①	②	③	④	④

- ① FAN SHALL BE GREENECKE MODEL: SP OR APPROVED EQUAL CEILING CENTRIFUGAL EXHAUST FAN. PROVIDE FAN WITH DISCONNECT AND DISCHARGE ROOF CAP. INTERLOCK FAN WITH LIGHTS. COOK IS AN APPROVED EQUAL.
- ② FAN SHALL BE GREENECKE MODEL: SP OR APPROVED EQUAL CEILING CENTRIFUGAL EXHAUST FAN. PROVIDE FAN WITH DISCONNECT, DISCHARGE ROOF CAP, AND WALL MOUNT THERMOSTAT. FAN SHALL ENERGIZE DURING A RISE IN TEMPERATURE ABOVE THERMOSTAT SET POINT. COOK IS AN APPROVED EQUAL.
- ③ FAN SHALL BE FIBER-AIRE MODEL: 125A2 OR APPROVED EQUAL WALL MOUNT FIBERGLASS EXHAUST FAN RATED FOR REMOVAL OF CORROSIVE GASES. PROVIDE FAN WITH PVC COATED BIRD SCREEN AND WALL SWITCH. FAN SHALL BE CONTROLLED BY WALL SWITCH.
- ④ FAN SHALL BE GREENECKE MODEL: S01 OR APPROVED EQUAL SIDE WALL PROP EXHAUST FAN. PROVIDE FAN WITH OSHA GUARD, GRAVITY BACKDRAFT DAMPER, AND WALL MOUNT THERMOSTAT. AN SHALL ENERGIZE DURING A RISE IN TEMPERATURE ABOVE THERMOSTAT SET POINT. COOK IS AN APPROVED EQUAL.

- A. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
- B. UNLESS OTHERWISE INDICATED, INSTALL ALL SPACE THERMOSTATS AND CONTROLLERS 48 INCHES ABOVE FINISHED FLOOR.
- C. DUCT SIZES SHOWN ARE ACTUAL INSIDE DIMENSIONS.
- D. FLEXIBLE OR ROUND DUCT SHALL BE CONNECTED TO RECTANGULAR OR SQUARE DUCT WITH A SPIN-IN COLLAR WITH SCOOP AND DAMPER.
- E. INSTALL TURNING VANES IN ALL 45 AND 90 DEGREE MITERED ELBOWS.

A. THE MECHANICAL EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE FOLLOWING CODES:

- A. THE MECHANICAL EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE FOLLOWING CODES:
1. THE INTERNATIONAL BUILDING CODE 2018 EDITION WITH GEORGIA AMENDMENTS.
 2. THE INTERNATIONAL MECHANICAL CODE 2018 EDITION WITH GEORGIA AMENDMENTS.
 3. THE INTERNATIONAL ENERGY CONSERVATION CODE 2015 EDITION WITH GEORGIA AMENDMENTS.
- B. THE MECHANICAL EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE FOLLOWING STANDARDS:
1. NFPA STANDARD 70, NATIONAL ELECTRIC CODE
 2. NFPA STANDARD 90A, INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS.
 3. NFPA STANDARD 101, CODE FOR SAFETY OF LIFE FROM FIRE IN BUILDINGS AND STRUCTURES.

A. INSTRUMENTS USED FOR BALANCING SHALL HAVE BEEN CALIBRATED WITHIN 6 MONTHS PRIOR TO THE BALANCING OF THE SYSTEMS.

- THE CONTRACTOR SHALL PERFORM TEST AND BALANCE ON THE AIR AND WATER DISTRIBUTION SYSTEMS.
- A. INSTRUMENTS USED FOR BALANCING SHALL HAVE BEEN CALIBRATED WITHIN 6 MONTHS PRIOR TO THE BALANCING OF THE SYSTEMS.
- B. ALL INSTRUMENTS REQUIRED TO BALANCE THE SYSTEM SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE.
- C. ANY ADJUSTMENTS SHALL BE MADE WITHIN 5% TO 10% OF THE CALIBRATION.
- D. ANY DEVIATIONS FROM DESIGN DATA SHALL BE EXPLAINED IN THE REPORT - POSSIBLE REASONS FOR AND SOLUTIONS TO.
- E. REPORT SHALL BE SIGNED AND DATED BY BALANCE ENGINEER.
- F. TEST AND BALANCE SHALL NOT BE PERFORMED UNTIL SYSTEM INSTALLATION IS COMPLETE.

A. CONDENSATE DRAIN PIPING AND FITTINGS SHALL BE SCHEDULE 30 GALVANIZED STEEL PIPE, ASTM A53, WITH THREADED 150 POUND MALLEABLE IRON FITTINGS, ANSI B16.3.

- B. REFRIGERANT PIPING SHALL BE HARD DRAWN TYPE ACR SEAMLESS COPPER TUBING, ASTM B280. FITTINGS SHALL BE WROUGHT COPPER, ANSI B16.22, WITH WORKING PRESSURE OF NOT LESS THAN 300 PSIG.













A. FIBERGLASS BLANKET INSULATION ON SUPPLY, RETURN, AND OUTSIDE AIR DUCTS SHALL BE FIBROUS GLASS BLANKET TYPE DESIGNED FOR USE ON SURFACES UP TO 250°F WITH A FACTORY APPLIED ALUMINUM FOIL AND KRAFT VAPOR BARRIER JACKET. INSULATION SHALL HAVE A MINIMUM DENSITY OF 1.0 LB/CU. FT. AND A MAXIMUM CONDUCTIVITY OF 0.26 BTU/IN. PER SQ.FT. PER DEGREE F PER HOUR AT 75°F MEAN TEMPERATURE. INSULATION SHALL BE KNAUF DUCTWRAP OR APPROVED EQUAL. INSULATION THICKNESS SHALL BE 2".

- B. INSULATION FOR REFRIGERANT LINES AND CONDENSATE DRAINS SHALL BE SELF SEALING, FLEXIBLE CELLULAR, ELASTOMERIC TYPE CONFORMING TO ASTM C534, DESIGNED FOR USE ON PIPES FROM -40°F TO 220°F (-40°C TO 105°C). INSULATION SHALL HAVE A MINIMUM DENSITY OF 6 LB/CU FT AND A MAXIMUM COMPRESSION OF 0.28 BTU/IN/SQ FT/°F/HR AT 75°F MEAN TEMPERATURE, AND A MAXIMUM PERMANENCE OF 0.17 LB/SQ FT. ADHESIVES USED FOR CONNECTIONS SHALL BE MANUFACTURER'S STANDARD UV-PROTECTION. INSULATION SHALL BE ARMACELL AP/SS ARMAFLEX.

B. TYPE 'D' SHALL BE TITUS 300F OR APPROVED EQUAL. PROVIDE WITH OPPOSED BLADE DAMPER.

A. GENERAL	
1. DUCTWORK SHALL BE CONSTRUCTED OF THICK FORMING QUALITY GALVANIZED STEEL SHEETS, GALVANIZED PLATING SHALL BE NOT LESS THAN 0.80 OUNCES (FORM FACTOR) FOR BOTH SIDES OF EACH SQUARE FOOT OF SHEET.	
2. DUCTWORK SHALL BE SQUARE, RECTANGULAR, ROUND, OR FLAT Oval, AS INDICATED ON THE DRAWINGS.	
3. TURNING VANES SHALL BE INSTALLED IN ALL 90 DEGREE SQUARE AND RECTANGULAR ELBOWS AND AT OTHER ANGLES AS SHOWN ON DRAWINGS. ANY SUPPLY OR EXHAUST AIR DUCTWORK WITH VELOCITY OF 1800 FPM OR HIGHER, THE TURNING VANES SHALL BE THE DOUBLE THICKNESS TYPE, WITH VANES WELDED TO THE RUNNERS AND RUNNERS WELDED TO THE DUCT.	
4. DUCTWORK SHALL BE CLASSIFIED AND CONSTRUCTED IN THE FOLLOWING SMACNA PRESSURE CLASSES, OR 150% OF THE SCHEDULED FAN S.P., WHICHEVER IS GREATER:	
SYSTEM OR ZONE	PRESSURE CLASS
SUPPLY AIR DUCTWORK (GENERAL BUILDING)	+2
RETURN DUCTWORK (GENERAL BUILDING)	+2
EXHAUST DUCTWORK (GENERAL BUILDING)	-2

- | | |
|---|----------------|
| A. GENERAL | |
| 1. DUCTWORK SHALL BE CONSTRUCTED OF LOCK FORMING QUALITY GALVANIZED STEEL SQUARES, GALVANIZED PLATING SHALL BE NOT LESS THAN 0.80 OUNCES (TOTAL FOR BOTH SIDES) PER SQUARE FOOT OF SHEET. | |
| 2. DUCTWORK SHALL BE SQUARE, RECTANGULAR, ROUND, OR FLAT Oval, AS INDICATED ON THE DRAWINGS. | |
| 3. TURNING VANES SHALL BE INSTALLED IN ALL 90 DEGREE SQUARE AND RECTANGULAR ELBOWS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS. IN ANY SUPPLY, RETURN OR EXHAUST AIR DUCTWORK WITH VELOCITIES OF 2500 FPM OR HIGHER, TURNING VANES SHALL BE THE DOUBLE THICKNESS TYPE, WITH VANES WELDED TO THE RUNNERS AND RUNNERS WELDED TO THE DUCT. | |
| 4. DUCTWORK SHALL BE CLASSIFIED AND CONSTRUCTED IN THE FOLLOWING SMACNA PRESSURE CLASSES, OR 150% OF THE SCHEDULED FAN S.P., WHICHEVER IS GREATER: | |
| SYSTEM OR ZONE | PRESSURE CLASS |
| SUPPLY AIR DUCTWORK (GENERAL BUILDING) | +2 |
| RETURN DUCTWORK (GENERAL BUILDING) | -2 |
| EXHAUST DUCTWORK (GENERAL BUILDING) | -2 |
| B. GALVANIZED STEEL DUCTWORK | |
| 1. EXCEPT WHERE INDICATED OTHERWISE DUCT CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE SMACNA HVAC DUCT CONSTRUCTION MANUAL FOR PRESSURE CLASSES SPECIFIED HEREIN BEFORE. | |
| C. DUCTWORK INSULATION | |
| 1. WHERE INDICATED, INSULATED FLEXIBLE DUCT SHALL BE CLASS 1 AIR DUCT IN ACCORDANCE WITH UL 181 AND SHALL COMPLY WITH NFPA 90A AND 90B. INSULATED FLEXIBLE DUCT SHALL CONSIST OF AN INNER FILM LAYER FOR MINIMUM WORKING PRESSURE OF 6" WG. BONDED TO A STEEL OR ALUMINUM SPRING WIRE CLOTH, FIBERGLASS INSULATION, AND A RUBBER OR BARBITED POLYESTER INSULATION. INSULATION SHALL HAVE A MAXIMUM C-VALUE OF 0.23 BTU/HR/SQ. FT./DEGREE F. AT 75 DEGREES F. MEAN TEMPERATURE. VAPOR BARRIER JACKET SHALL HAVE A MAXIMUM VAPOR TRANSMISSION RATE OF 0.1 GRAINS/SQ. FT./HR/INCH HG (PERM). THE ASSEMBLY SHALL HAVE A MAXIMUM FLAME AND SMOKE RATING OF 25/50 PER ASTM E84 AND NFPA 255. INSULATED FLEXIBLE DUCT SHALL BE PRESSURE DUCTWORK. INSULATED FLEXIBLE DUCT SHALL BE 6" WG. INSULATED FLEXIBLE DUCT SHALL BE THERMOFLEX OR APPROVED EQUAL. | |

LEGEND & ABBREVIATIONS		
ABBREVIATION	SYMBOL	DESCRIPTION
W, S, D	———— S ————	SANITARY WASTE, SOIL & DRAIN
V	-----	VENT - SANITARY
CW	———— ————	DOMESTIC COLD WATER
HW	———— ————	DOMESTIC HOT WATER (110°F)
HWR	———— ————	DOMESTIC HOT WATER RETURN
G	———— G ————	NATURAL GAS - LOW PRESSURE
GV	————  ————	GATE VALVE
BV	————  ————	BALL VALVE
CV	————  ————	CHECK VALVE
PV	————  ————	PLUG VALVE
WHA	————  ————	WATER HAMMER ARRESTOR 'SIZE'
RV	————  ————	PRESSURE OR TEMPERATURE RELIEF VALVE
CO	————  ————	CLEANOUT
FCO	————  ————	FLOOR CLEANOUT
GCO	————  ————	GRADE CLEANOUT
WCO	————  ————	WALL CLEANOUT
FD	————  ————	FLOOR DRAIN 'TYPE'
	————  ————	SOIL OR WASTE STACK DESIGNATION
		STACK NUMBER

GENERAL NOTES:

1. ALL UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. VERIFY EXACT LOCATION AND INVERT ELEVATION IN FIELD BEFORE BEGINNING WORK.
2. WALL HYDRANTS SHALL BE MOUNTED 1'-6" ABOVE GRADE, UNLESS NOTED OTHERWISE.
3. HOSE BIBBS SHALL BE MOUNTED 1'-6" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE.
4. COORDINATE ALL WORK WITH OTHER TRADES.

WATER HEATERS - ELECTRIC	
HEATER NUMBER	WH-1
SPEC. TYPE	---
LOCATION	SEE DWGS
STORAGE, GALLONS	119
RECOVERY, GPH ①	49
ENTERING WATER TEMPERATURE, °F.	50
LEAVING WATER TEMPERATURE, °F.	120
INPUT, KW	12
ELECTRICAL CHARACTERISTICS	SEE ELEC DWGS.
REMARKS	②

- ① BASED ON 100 DEGREE RISE.
- ② WATER HEATER SHALL BE A.O.SMITH OR RHEEM ELECTRIC TANK TYPE HEATER.

PUMPS	
PUMP NUMBER	HWC--1
SPEC. TYPE	---
SERVICE	DOMESTIC WATER
LOCATION	SEE DWGS
CAPACITY, GPM	1
DISCHARGE HEAD, FT.	10
SUCTION PRESS., FT.	---
FLUID TEMP., °F.	120
RPM	3250
HP	1/12
CONTROLLER	AQUASTAT
ELECTRICAL CHARACTERISTICS	SEE ELEC. DWGS.
REMARKS	①

- ① AQUASTAT TO START PUMP AT 90°F AND STOP PUMP AT 105°F PUMP SHALL BE TACO '00' SERIES PUMP OR EQUAL.

PLUMBING FIXTURES						
SPEC. TYPE	FIXTURE	MINIMUM INDIVIDUAL CONNECTION				REMARKS
		COLD	HOT	VENT	WASTE	
P-1	WATER CLOSET	1/2"	---	---	4"	18" TO RIM (1)
P-3	LAVATORY	1/2"	1/2"	---	1 1/2"	34" TO RIM (1)
P-6	SINK	1/2"	1/2"	---	1 1/2"	COUNTERTOP
P-7	SHOWER	1/2"	1/2"	---	2"	(1)
P-8	EMERGENCY SHOWER AND EYE WASH	1 1/4"	---	---	1 1/4" (2)	---
P-9	EMERGENCY SHOWER AND EYE WASH	1 1/2"	1"	---	1 1/4" (2)	---

- ① FIXTURE, TRIM AND INSTALLATION SHALL COMPLY TO ADA REQUIREMENTS.
- ② EYE WASH DRAIN.

PLUMBING SPECIFICATIONS

CODES

- A. THE PLUMBING INSTALLATION AND EQUIPMENT SHALL CONFORM TO THE FOLLOWING:
1. INTERNATIONAL PLUMBING CODE, 2018 EDITION WITH GEORGIA AMENDMENTS.

TESTING PIPE SYSTEMS

- A. GENERAL. CONCEALED PIPING AND INSULATED PIPING SHALL BE TESTED IN PLACE BEFORE CONCEALING OR COVERING. TEST SHALL BE CONDUCTED IN THE PRESENCE OF THE ARCHITECT OR HIS DESIGNATED REPRESENTATIVE. PIPING LOCATED UNDERGROUND SHALL BE TESTED BEFORE BACKFILLING. EQUIPMENT, MATERIALS AND INSTRUMENTS FOR TESTING SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.
- B. PLUMBING SYSTEMS
1. SANITARY WASTE AND VENT PIPING. THE PIPING SHALL BE TESTED WITH WATER BEFORE INSTALLING FIXTURES. WATER TESTS SHALL BE APPLIED TO THE SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS. IF THE TEST IS APPLIED TO THE ENTIRE SYSTEM, ALL OPENINGS IN THE PIPING SHALL BE CLOSED EXCEPT THE HIGHEST OPENING, AND THE SYSTEM SHALL BE FILLED WITH WATER AND TESTED WITH AT LEAST A 10 FT. HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS, AT LEAST THE UPPER 10 FT. OF THE NEXT PRECEDING SECTION SHALL BE TESTED SO THAT EACH JOINT OR PIPE IN THE BUILDING EXCEPT THE UPPERMOST 10 FT. OF THE SYSTEM HAS BEEN SUBMITTED TO A TEST OF AT LEAST 10 FT. HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM, OR IN THE PORTION UNDER TEST FOR AT LEAST 2 HOURS BEFORE THE INSPECTION STARTS. THE SYSTEM SHALL BE TIGHT AT ALL JOINTS.
2. WATER PIPING. UPON COMPLETION OF THE ROUGH-IN AND BEFORE SETTING FIXTURES, THE ENTIRE DOMESTIC COLD WATER, HOT WATER, AND HOT WATER CIRCULATION PIPING SYSTEMS SHALL BE TESTED AT HYDROSTATIC PRESSURE OF 100 PSIG AND PROVED TIGHT AT THIS PRESSURE FOR A PERIOD OF NOT LESS THAN 2 HOURS IN ORDER TO PERMIT INSPECTION OF ALL JOINTS. WHERE A PORTION OF THE WATER PIPING SYSTEM IS TO BE CONCEALED BEFORE COMPLETION, THIS PORTION SHALL BE TESTED SEPARATELY IN A MANNER DESCRIBED FOR THE ENTIRE SYSTEM.

DOMESTIC WATER SYSTEM

- A. PROVIDE COMPLETE SYSTEMS OF COLD AND HOT WATER PIPING AND ACCESSORIES SO THAT EVERY FIXTURE AND PIECE OF WATER USING EQUIPMENT IN THIS AREA OF THE BUILDING WILL BE FURNISHED WITH A WATER SUPPLY.
- B. EXTEND THE DOMESTIC COLD AND HOT WATER PIPING AND CONNECT TO THE EXISTING PIPING, AS SHOWN ON THE DRAWINGS.
- C. PIPING FITTINGS AND JOINTS
1. PIPE AND FITTINGS SHALL BE AS LISTED HEREIN AND SHALL BE USED ON THE SERVICES INDICATED.
2. TYPE "L" HARD COPPER TUBING, FED. SPEC. NO. WW-T-799, WITH SOLDERED JOINTS AND WROUGHT COPPER SOCKET FITTINGS FOR ALL WATER PIPING.
3. SOLDER JOINTS (FOR TYPE 'L' COPPER TUBING) SHALL BE MADE USING A 95-5 TIN-ANTIMONY SOLDER WITH A COMPATIBLE FLUX.
4. PROPRESS SYSTEM IS APPROVED FOR USE.
- D. DISINFECTION
1. ALL DOMESTIC WATER SERVICE AND SUPPLY PIPING INSTALLED UNDER THIS DIVISION SHALL BE DISINFECTED WITH CHLORINE BEFORE IT IS PLACED INTO OPERATION. THE CHLORINATING MATERIAL SHALL BE LIQUID CHLORINE CONFORMING TO FEDERAL SPECIFICATION BB-C-120 AND SHALL BE INTRODUCED TO THE SYSTEM BY EXPERIENCED OPERATORS ONLY. THE CHLORINE SOLUTION APPLIED TO THE PIPING SECTIONS OR SYSTEM SHALL CONTAIN AT LEAST FIFTY PARTS PER MILLION OF AVAILABLE CHLORINE AND SHALL REMAIN IN THE SECTIONS OR SYSTEM FOR A PERIOD OF NOT LESS THAN SIXTEEN (16) HOURS. DURING THE DISINFECTION PERIOD ALL VALVES SHALL BE OPENED AND CLOSED AT LEAST FOUR TIMES. AFTER THE DISINFECTION PERIOD THE CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAR WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN TWO-TENTHS - (0.2) - PARTS PER MILLION. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT CERTIFICATION THAT THE SYSTEM WAS DISINFECTED.

INSULATION

- A. ALL WATER PIPING SHALL BE INSULATED WITH FIBERGLASS JACKETED PIPE INSULATION.

PLUMBING FIXTURES

- A. WATER CLOSET P-1
- FIXTURE KOHLER K-3999-0
- SEAT BEMIS B1655SSC000
- SEE ARCHITECTURAL DRAWINGS FOR HANDLE LOCATION.
- B. LAVATORY P-3
- FIXTURE KOHLER K-2007
- FAUCET SYMMONS S20
- DRAIN PROFLO PFHG0
- P-TRAP PROFLO PF8872
- SUPPLY VALVES AND RISERS BRASSCRAFT
- P-TRAP INSULATION KIT PROFLO PF203WH
- CHAIR CARRIER J.R.SMITH
- C. SINK P-6
- FIXTURE ELKAY DLR332210
- FAUCET T&S BRASS B-2872
- DRAIN ELKAY LK99
- P-TRAP MCGUIRE 8912
- SUPPLIES BRASSCRAFT
- D. SHOWER P-7
- STALL AQUATIC 1363BFSMA
- WITH SHOWER VALVE AND TRIM
- E. NFWH WOODFORD MB65-K
- F. ALL FIXTURES AND TRIM SHALL BE APPROVED BY THE OWNER.
- G. EMERGENCY SHOWER AND EYE WASH P-8
- SHOWER BRADLEY S19314SC
- SHOWER SHALL BE COMBINATION SHOWER AND EYE WASH
- MADE OF 304 STAINLESS STEEL FOR COROSION
- RESISTANCE. EYE WASH STATION SHALL HAVE STAINLESS
- STEEL BOWL AND BOWL COVER.
- H. EMERGENCY SHOWER AND EYE WASH P-9
- COMBINATION EMERGENCY SHOWER AND EYE WASH SHALL BE
- GUARDIAN MODEL GBF1994 WITH MODEL G380DLF
- THERMOSTATIC MIXING VALVE OR APPROVED EQUAL.

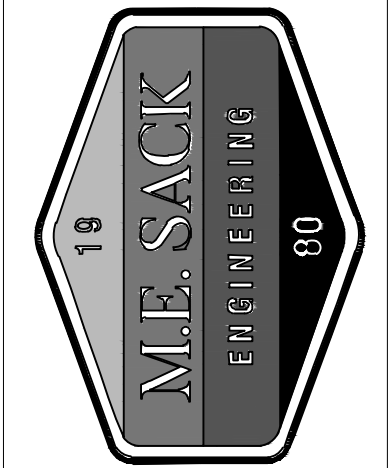
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WATER POLLUTION
CONTROL PLANT

PLUMBING - LEGEND,
SCHEDULES, AND
SPECIFICATIONS

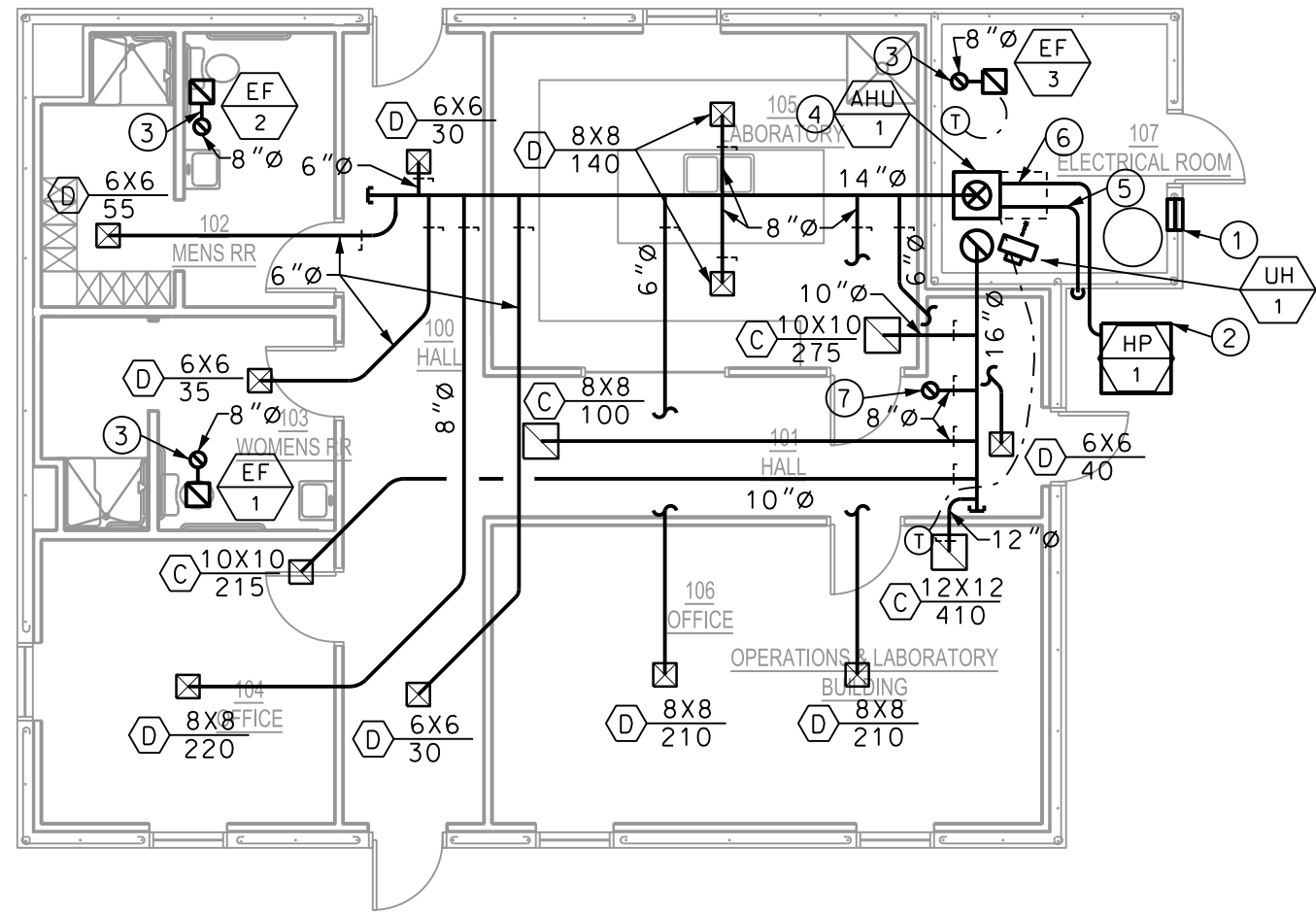
SHEET: M-1A

FILE NO: 2013-36

PLOT DATE: September 29, 2023

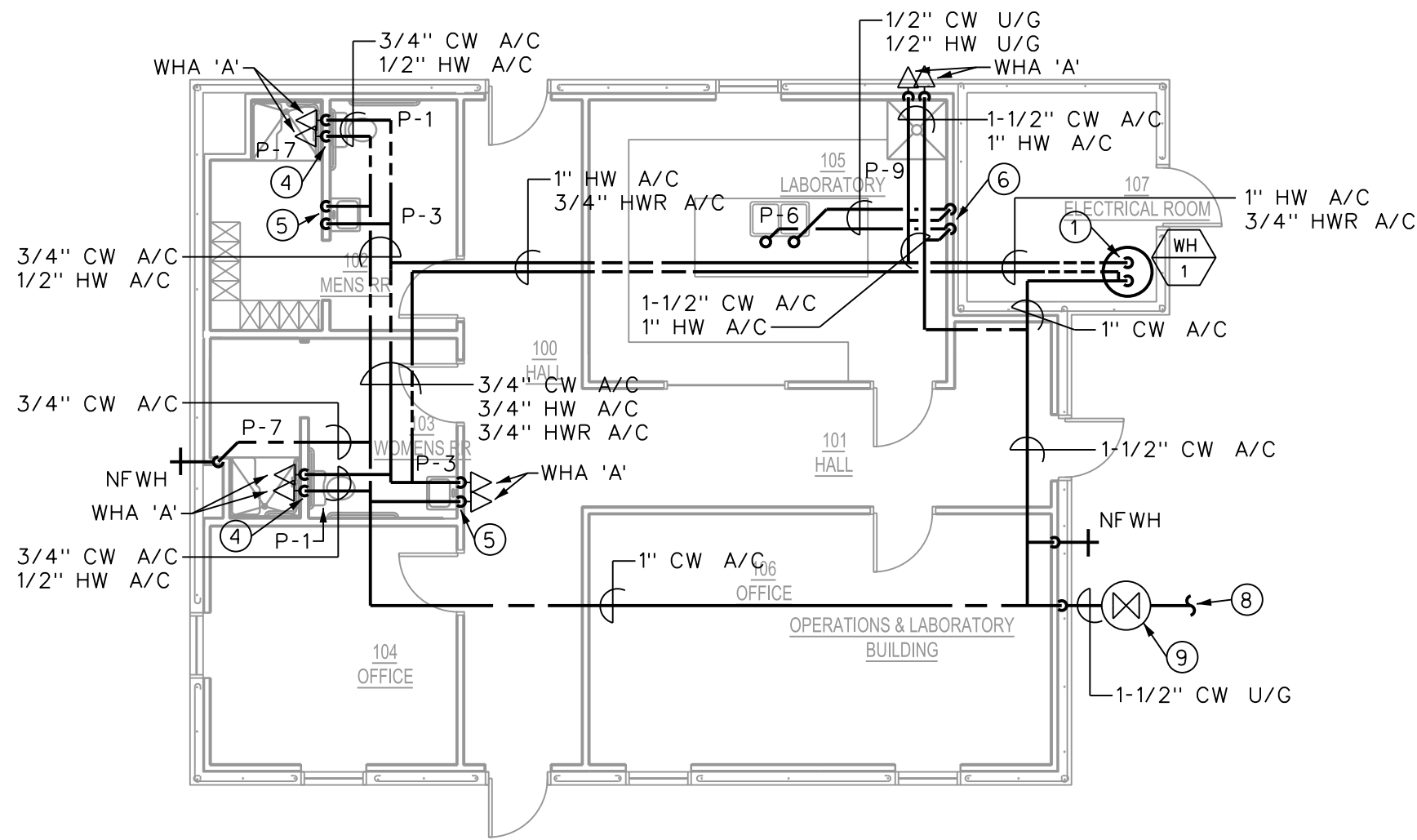
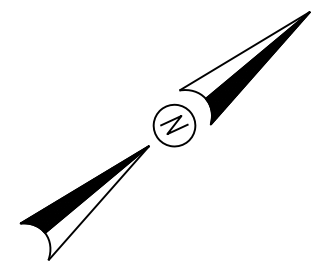


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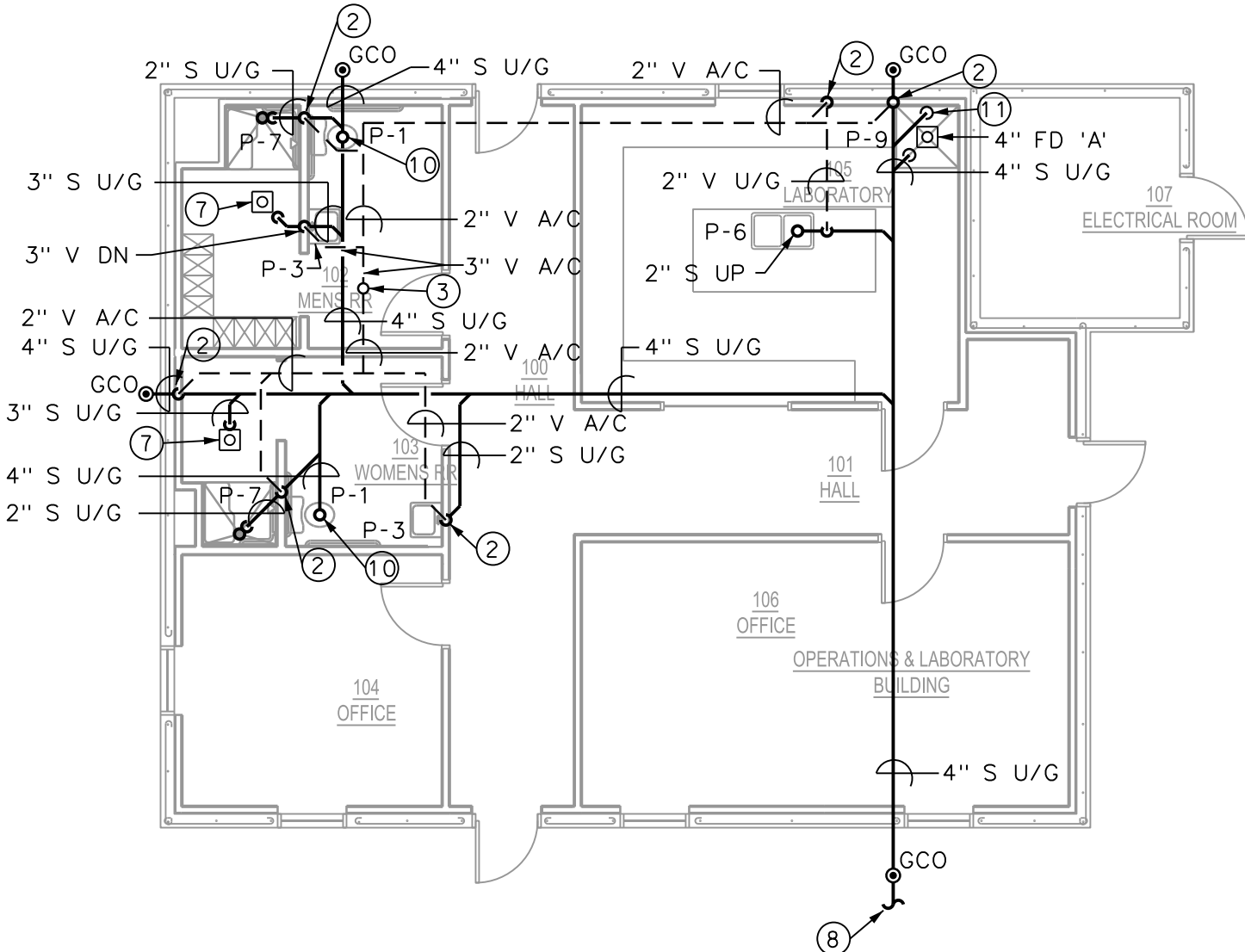
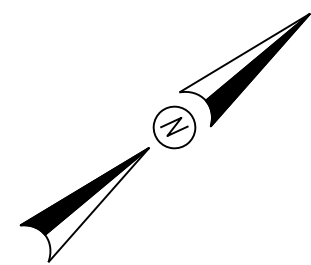


- HVAC NOTES:
- PROVIDE AND INSTALL A 15-5/8" X 7-3/4" BRICK VENT. BRICK VENT SHALL BE GREENHECK MODEL: BVE OR APPROVED EQUAL. PROVIDE BRICK VENT WITH INSECT SCREEN AND WATER STOP. MOUNT BRICK VENT APPROXIMATELY 2'-0" ABOVE FINISHED FLOOR. COORDINATE EXACT MOUNTING HEIGHT WITH BLOCK WALL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL AROUND OPENING.
 - MOUNT AND SECURE HEAT PUMP ON EQUIPMENT PAD.
 - EXHAUST DUCT UP TO ROOF CAP PROVIDED WITH EXHAUST FAN. INSTALL ROOF CAP PER MANUFACTURER'S RECOMMENDATIONS.
 - MOUNT AHU ON EQUIPMENT STAND WITH VIBRATION ISOLATION PADS. PROVIDE AND INSTALL INSULATED RETURN AIR PLENUM BOX ON UNDERSIDE OF UNIT AND TAP AS REQUIRED FOR DUCT CONNECTIONS. PROVIDE AND INSTALL EQUIPMENT STAND.
 - PROVIDE AND INSTALL P-TRAP FULL SIZE OF UNIT CONDENSATE CONNECTION. EXTEND CONDENSATE DRAIN LINE TO EXTERIOR AND TURN DOWN AS SHOWN. SEAL WALL PENETRATION. SEE 4/M.1 FOR P-TRAP DETAIL. COORDINATE EXACT ROUTING WITH WATER HEATER SERVICE CLEARANCES.
 - PROVIDE, SIZE, AND INSTALL REFRIGERANT LINE SET PER MANUFACTURER'S RECOMMENDATIONS. SEAL WALL PENETRATION. COORDINATE EXACT ROUTING WITH WATER HEATER SERVICE CLEARANCES.
 - OUTSIDE AIR DUCT UP TO ROOF CAP. INSTALL ROOF CAP PER MANUFACTURER'S RECOMMENDATIONS. ROOF CAP SHALL BE GREENHECK MODEL: RJ-6X9 WITH INTEGRAL BIRD SCREEN. REMOVE BACKDRAFT DAMPER IN FIELD TO ALLOW FOR INTAKE AIR OPERATION.

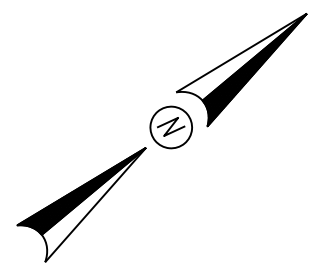
1 FLOOR PLAN - HVAC
M-2 SCALE: 1 / 8 " = 1' - 0"



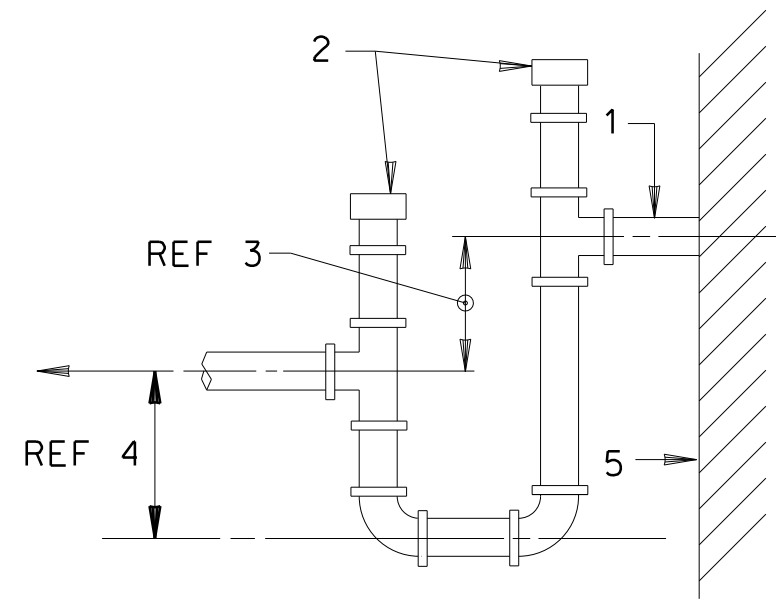
2 FLOOR PLAN - DOMESTIC WATER - PLUMBING
M-2 SCALE: 1 / 8 " = 1' - 0"



3 FLOOR PLAN - SANITARY - PLUMBING
M-2 SCALE: 1 / 8 " = 1' - 0"

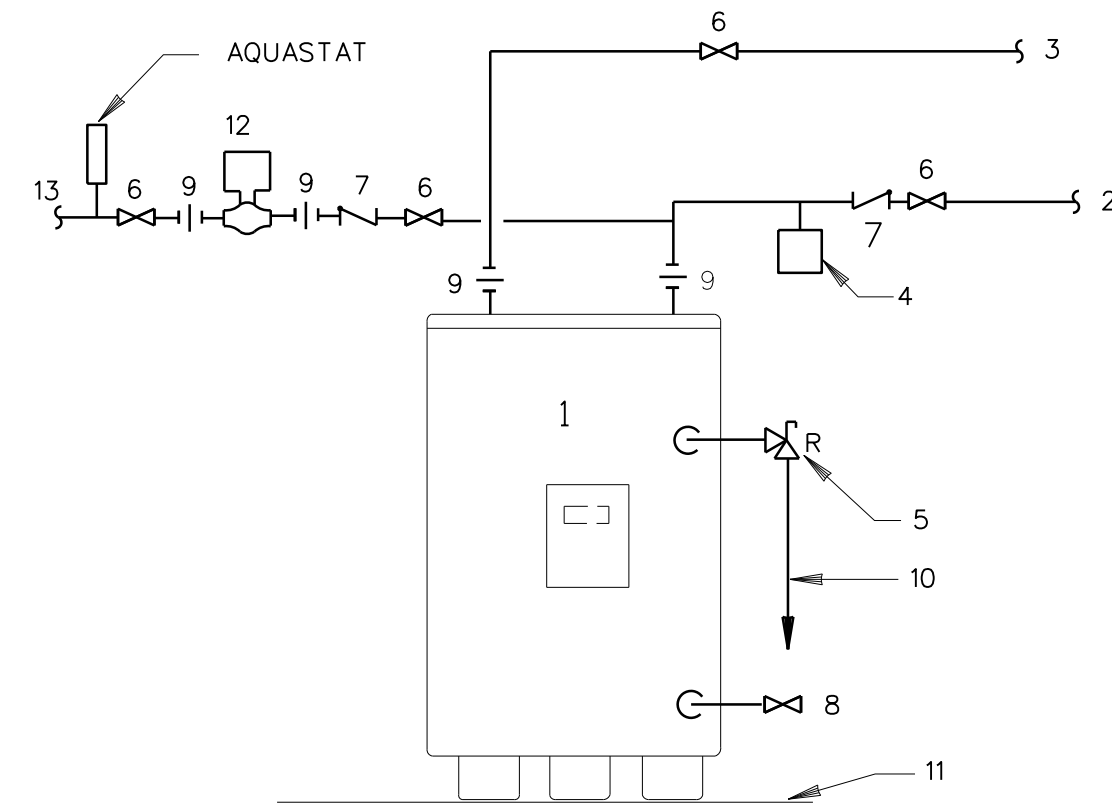


- PLUMBING NOTES:
- 1" HW, 1" CW, AND 3/4" HWC DROPS TO WATER HEATER. SEE 5/M.1 FOR CONNECTION DETAIL AND RECIRCULATION PUMP LOCATION.
 - 2" VENT DOWN.
 - 3" VENT TO ROOF.
 - 3/4" CW AND 1/2" HW DOWN. EXTEND 1/2" CW TO WATER CLOSET AND SHOWER AND EXTEND 1/2" HW TO SHOWER.
 - 1/2" CW AND 1/2" HW DOWN TO LAVATORY.
 - 1/2" CW AND 1/2" HW DOWN TO UNDER SLAB. EXTEND OVER AND TURN UP FOR SINK CONNECTION.
 - 3" FD'A' WITH SURE SEAL TRAP GUARD.
 - SEE CIVIL DRAWINGS FOR CONTINUATION.
 - COORDINATE EXACT LOCATION WITH SITE PLAN.
 - 4" SANITARY DOWN.
 - PROVIDE P-TRAP FULL SIZE OF SHOWER CONNECTION OUTLET.
 - WATER HEATER DRAIN PIPES AND PRESSURE RELIEF LINES. EXTEND FULL SIZE OF WATER HEATER CONNECTION TO EXTERIOR AND TURN DOWN.



- PIPE FULL SIZE OF AIR UNIT DRAIN CONNECTION.
- CAPS
- MINIMUM HEIGHT SHALL BE EQUAL TO FAN PLENUM NEGATIVE PRESSURE PLUS 1.0 INCH.
- MINIMUM HEIGHT SHALL BE EQUAL TO HEIGHT OF REF 3 TIMES 0.5 PLUS 1 INCH.
- AIR UNIT CASING

4 P-TRAP DETAIL
M-2 SCALE: NOT TO SCALE



- WATER HEATER
- COLD WATER SUPPLY
- HOT WATER TO SYSTEM
- THERMAL EXPANSION TANK
- PRESSURE & TEMPERATURE RELIEF VALVE
- SHUT-OFF VALVE
- CHECK VALVE
- 3/4" DRAIN VALVE. EXTEND FULL SIZE TO EXTERIOR OF BUILDING.
- UNION
- PIPE RELIEF VALVE DISCHARGE FULL SIZE TO EXTERIOR OF BUILDING
- FINISHED FLOOR
- HOT WATER RETURN PUMP
- HOT WATER RETURN

5 WATER HEATER PIPING
M-2 SCALE: NOT TO SCALE



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9/27/23
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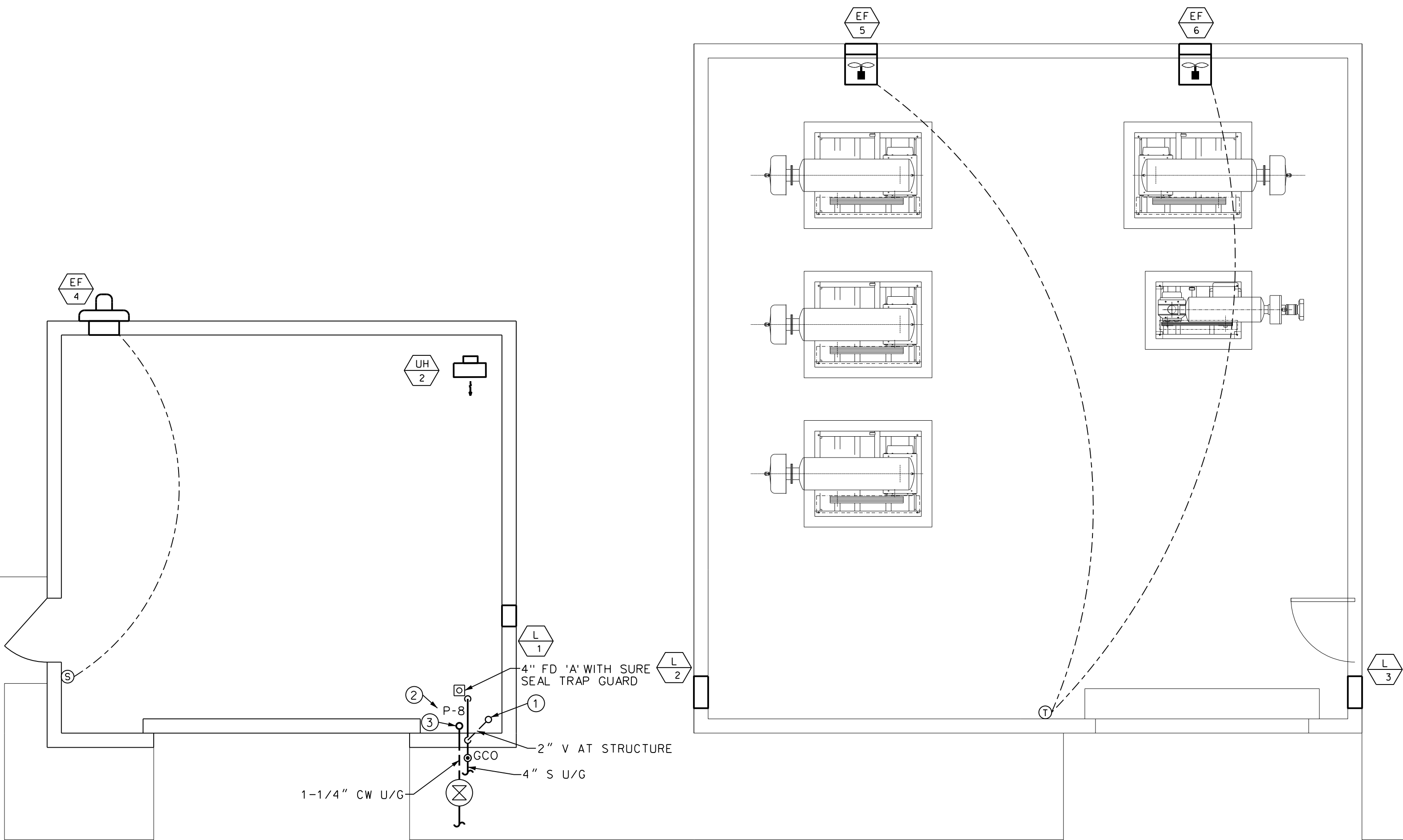
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WATER POLLUTION CONTROL PLANT

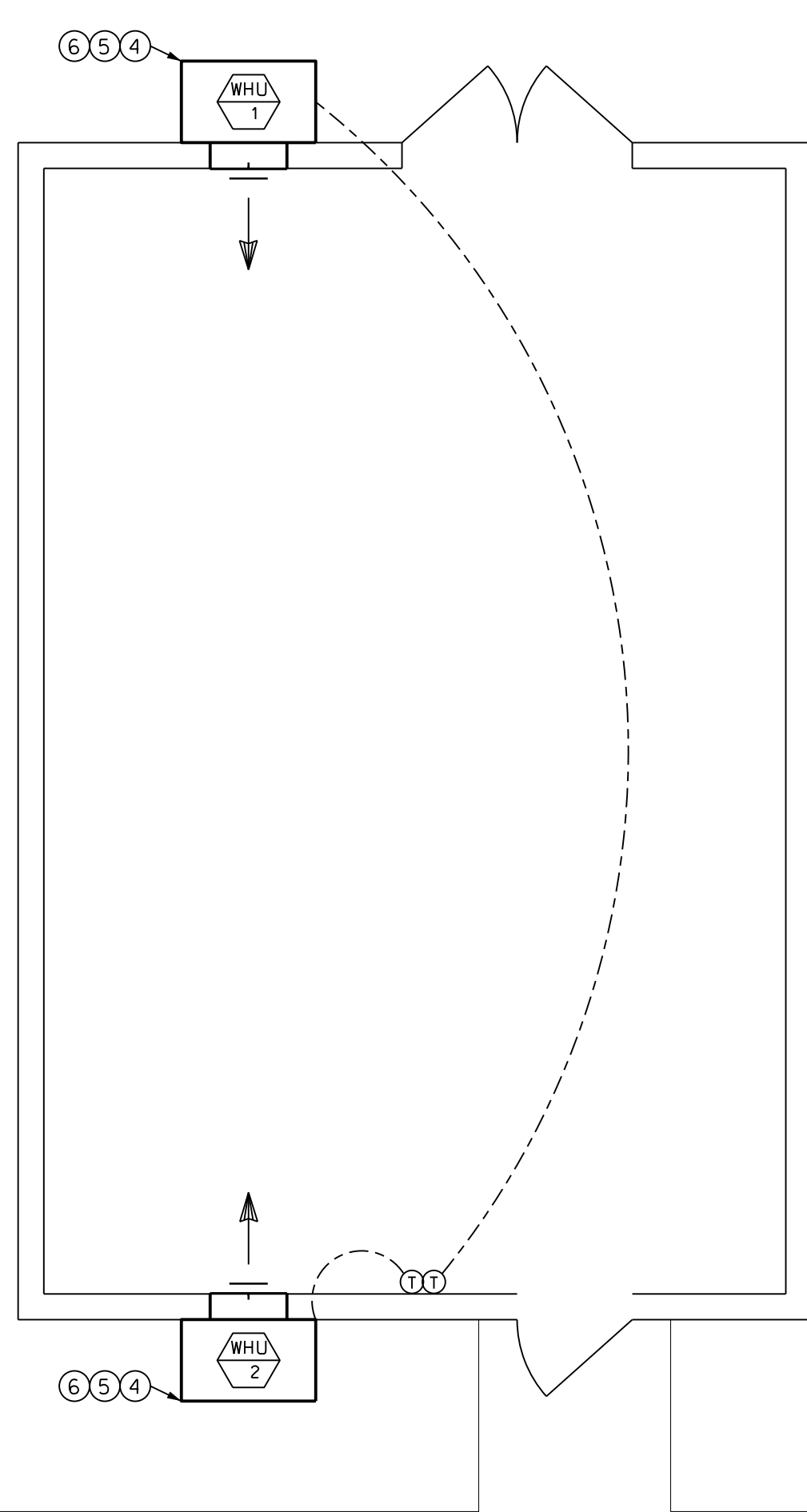
HVAC AND PLUMBING FLOOR PLANS

SHEET: M-2
FILE NO: 2013-36
PLOT DATE: September 29, 2023




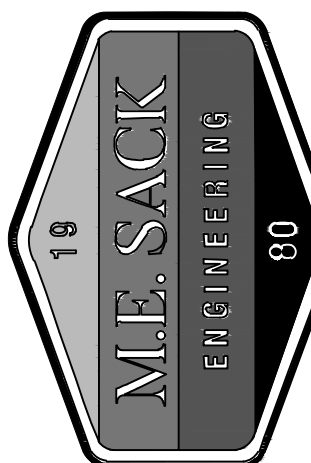
1 HVAC AND PLUMBING -
CHEMICAL FEED BLDG PLAN
M-2A SCALE: 1 / 4 " = 1' - 0"

2 HVAC - BLOWER
BLDG PLAN
M-2A SCALE: 1 / 4 " = 1' - 0"



3 HVAC - POWER
HOUSE BLDG PLAN
M-2A SCALE: 1 / 4 " = 1' - 0"

- NOTES (1/M1.2, 2/M1.2, 3/M1.2):
- 2" VENT TO ROOF.
 - PROVIDE P-TRAP FULL SIZE OF SHOWER CONNECTION OUTLET AND EXTEND DRAIN TO VENT PIPE.
 - 1-1/4" CW UP TO SHOWER INLET.
 - INSTALL P-TRAP ON CONDENSATE DRAIN LINE. SUPPLY AND INSTALL SPLASH BLOCK ON GROUND. TURN CONDENSATE DRAIN LINE DOWN TO DRIP ON SPLASH BLOCK ON GROUND.
 - WALL HUNG UNIT MOUNTED ON WALL. UNIT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES. UNIT SHALL BE PROVIDED WITH FACTORY STANDARD WALL GRILLES, LEAD/LAG CONTROLLER AND 7-DAY PROGRAMMABLE THERMOSTAT. UNIT SHALL BE BARD W48HC-COZ. PROVIDE INTEGRAL MAIN DISCONNECT.
 - WALL HUNG UNITS SHALL HAVE THE FOLLOWING SEQUENCE OF OPERATION:
1. UNITS SHALL BE CONTROLLED BY THERMOSTAT MOUNTED IN THE SPACE. THERMOSTAT SHALL BE SET TO MAINTAIN 80°F (ADJ.).
2. UNITS FAN AND COMPRESSOR SHALL CYCLE AS REQUIRED TO MAINTAIN SET POINT IN SPACE.
3. UNITS SHALL OPERATE LEAD-LAG, SWITCHING ROLES EVERY 30 DAYS.

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WATER POLLUTION CONTROL PLANT	
HVAC AND PLUMBING F LOOR PLANS	
SHEET: M-2A	
FILE NO: 2013-36	
PLOT DATE: September 29, 2023	

CADD PLOT
29-SEP-2023
14:45
LCAULEY