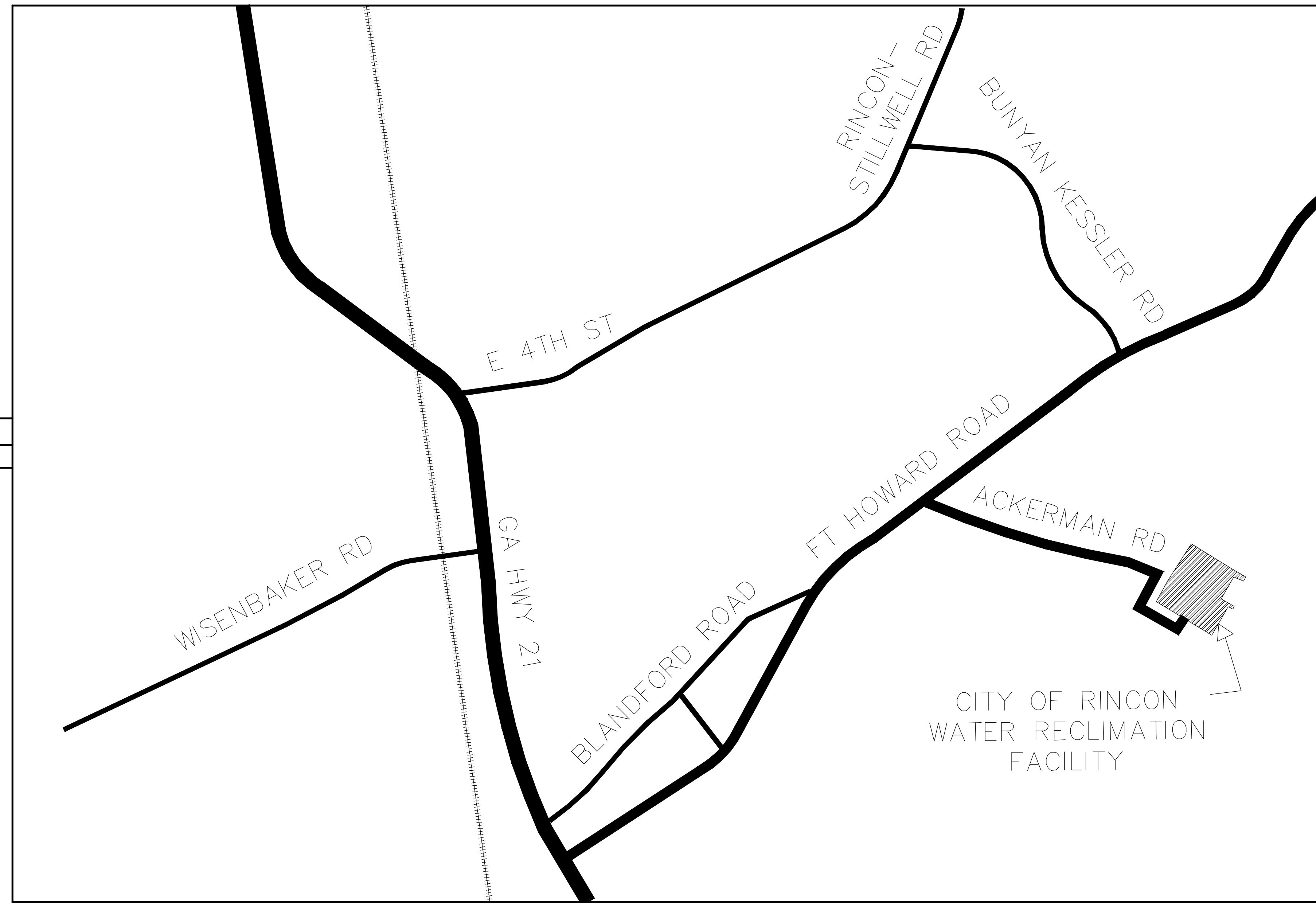


WASTEWATER TREATMENT PLANT EXPANSION FOR THE CITY OF RINCON EFFINGHAM COUNTY, GEORGIA DATE: SEPTEMBER 26, 2021



VICINITY MAP
Not To Scale

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		
GLY POLE		
IRON PIN FOUND		
IRON PIN SET		
TELEPHONE PEDESTAL		
POWER POLE		
HANDICAP SPACE		
SEDIMENT BASIN MARKER W/NOTCH		



Know what's below.
Call before you dig.

OWNER:
CITY OF RINCON
302 S COLUMBIA AVENUE
RINCON, GA 31326
(912) 826-5745
info@cityofrincon.com

GPS COORDINATES OF CO:
N: 32.288921
W: -81.202977

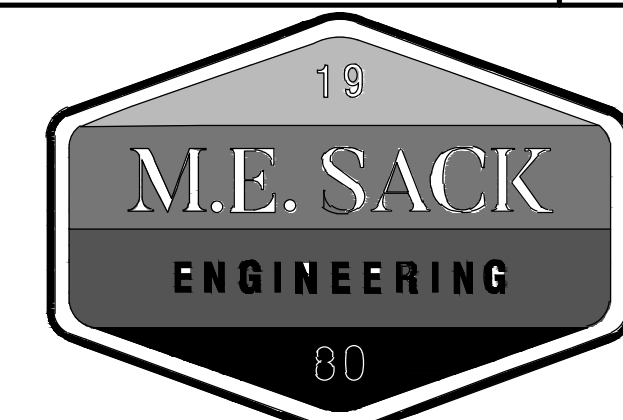
DATUM: NAV 88

24 HOUR CONTACT:
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tkee@cityofrincon.com

DESIGN PROFESSIONAL:



DATE: May 3, 2024



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

GENERAL NOTES

- 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.
- ALL DISTURBED AREAS TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION, IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY CORNERS, RIGHT OF WAY MONUMENTS, SIGNS OR OTHER STRUCTURES DISTURBED DURING CONSTRUCTION.
- ALL TRAFFIC AND SIGNAGE CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, MUTCD, CURRENT EDITION.

JOB NO. 2020-10

REVISION NO.	DATE	DESCRIPTION
1	04/12/2023	MCC BUILDING
2	09/22/2023	MCC BUILDING
3	10/04/2023	GSWCC REVISIONS
5	05/06/2024	EPD REVISIONS

COVER SHEET

PLOT DATE: May 3, 2024

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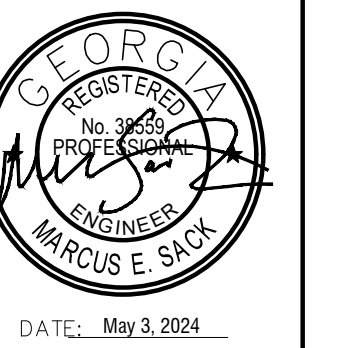
104.	SCADA SYSTEM LAYOUT	SD01
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1	MCC BUILDING
2	MCC BUILDING
3	GSWCC REVISION
4	EPD REVISION

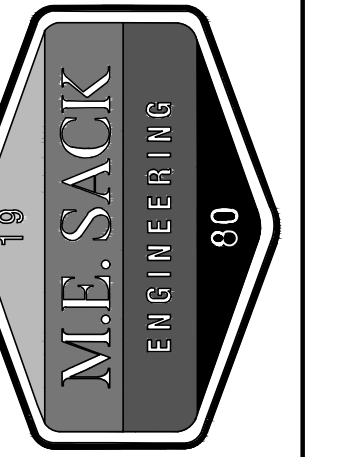
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DATE: May 3, 2024



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COUNTY:
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OWNER:
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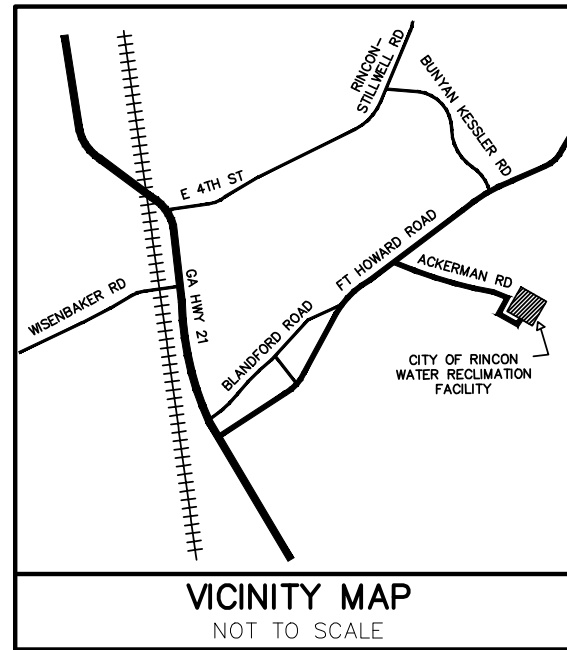
WWTP
Expansion

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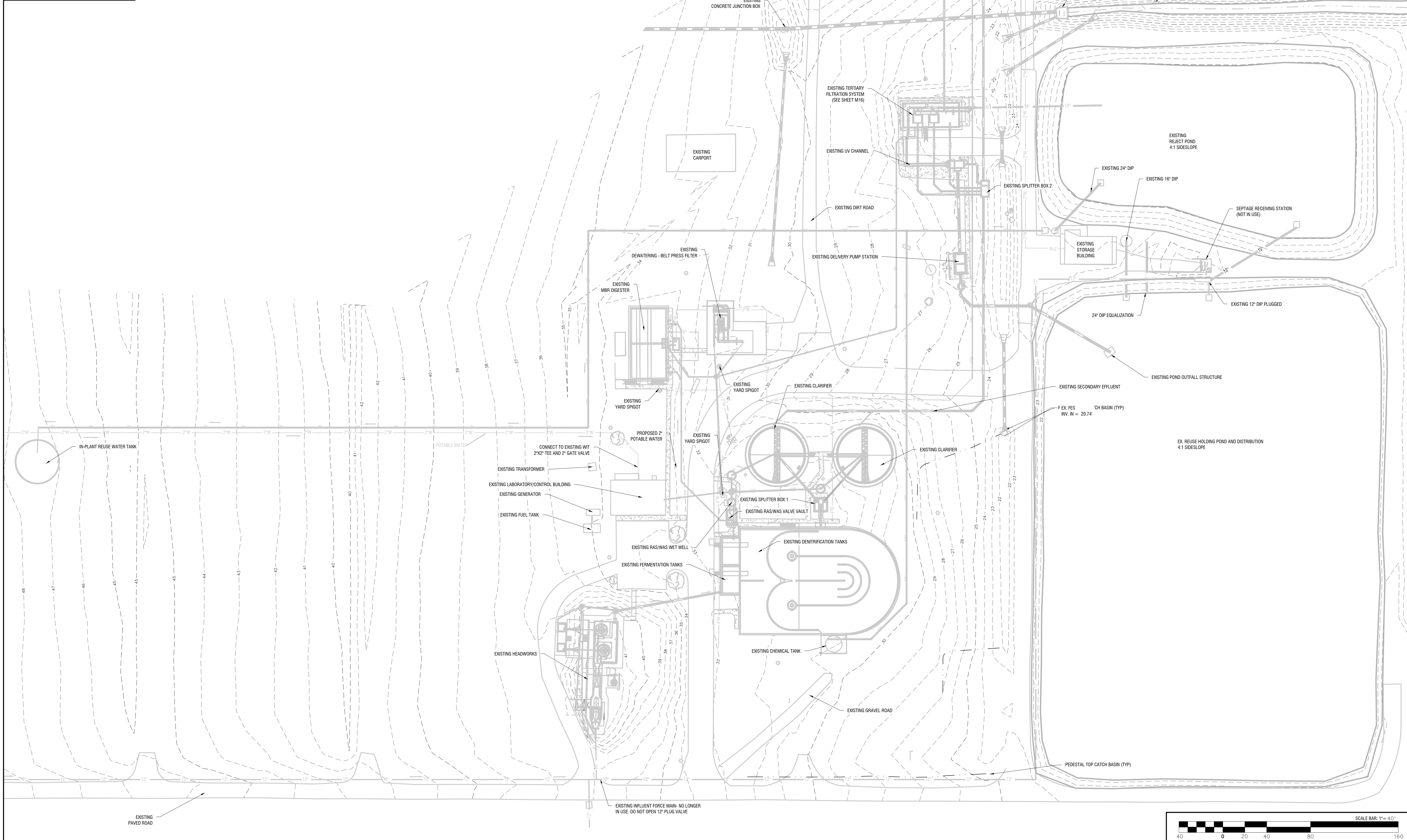
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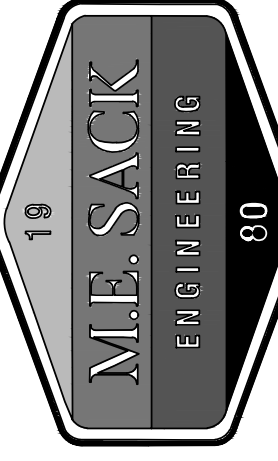
FILE NO: 2020-10 PRJ

PLOT DATE: May 3, 2024

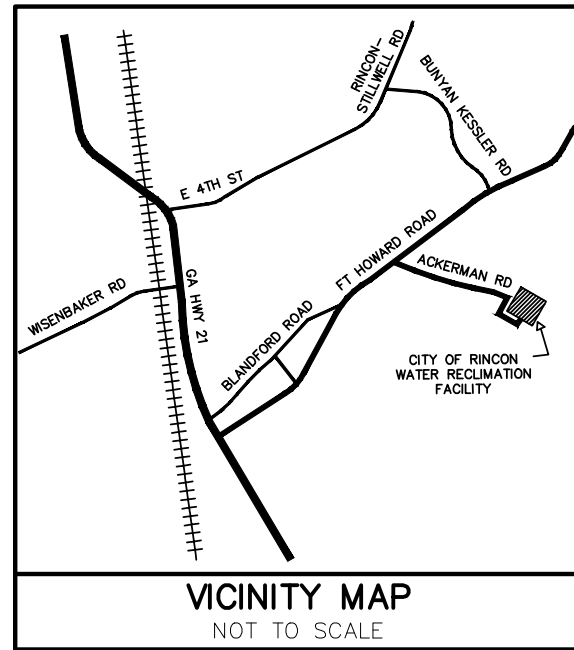


VICINITY MAP
NOT TO SCALE



REVISIONS:	
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2	MCC BUILDING
3	GSWCC REVISION
4	EPD REVISION
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DATE: May 3, 2024	
	
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COUNTY: EFFINGHAM	
OWNER: CITY OF RINCON 302 S COLUMBIA AVENUE RINCON, GA 31326 (912) 826-5745 info@cityofrincon.com	
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<h1>WWTP Expansion</h1>	
<h2>EXISTING CONDITIONS</h2>	
<h1>G2</h1>	
FILE NO: 2020-10 PRJ	
PLOT DATE: May 3, 2024	



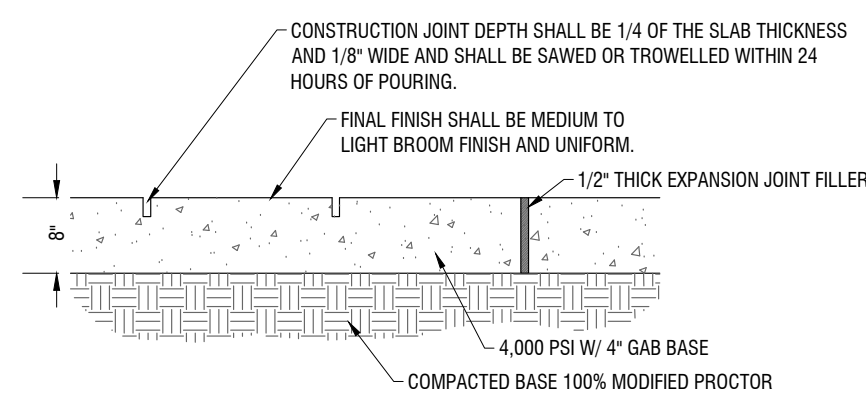


VICINITY MAP
NOT TO SCALE

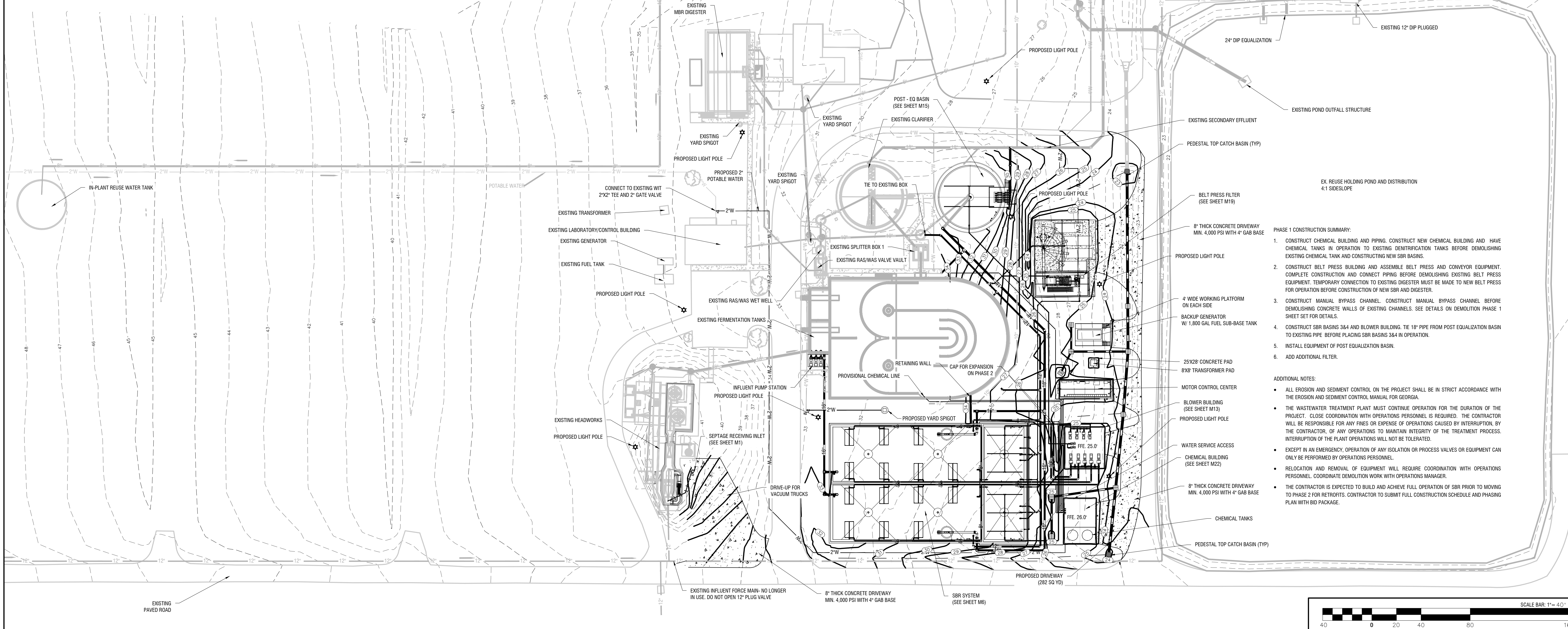
EPD PIPING COLOR CODE

WATER LINES		SLUDGE LINES	
RAW OR RECYCLE	OLIVE GREEN	ALUM OR PRIMARY COAGULANT	ORANGE
FINISHED OR POTABLE WATER	DARK BLUE	AMMONIA	WHITE
SETTLED OR CLARIFIED	AQUA	CAUSTIC	YELLOW W/ GREEN BAND
WATER FOR HEATING	BLUE W/ RED BANDS	CHLORINE (GAS AND SOLUTION)	YELLOW
		POLYMERS OR COAGULANT AIDS	ORANGE W/ GREEN BAND
		POTASSIUM PERMANGANATE	VIOLET
		SODA ASH	LIGHT GREEN W/ ORANGE BAND
		SULFURIC ACID	YELLOW W/ RED BAND
		SULFUR DIOXIDE	LIGHT GREEN W/ YELLOW BAND
WASTE LINES			
BACKWASH WASTE	LIGHT BROWN		
SLUDGE	DARK BROWN		
SEWER (SANITARY OR OTHER)	DARK GRAY		
OTHER LINES			
COMPRESSED AIR	DARK GREEN		
SLUDGE GAS	RED		
NATURAL GAS	RED W/ BLACK BANDS		
OTHER LINES	LIGHT GRAY		

NOTE:
CONSTRUCTION JOINTS: 12" O.C. MAX
EXPANSION JOINTS: 20" O.C. MAX



CONCRETE PAVING DETAIL
N.T.S.



REVISIONS:

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2	MCC BUILDING
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PHASE 1 CONSTRUCTION SUMMARY:

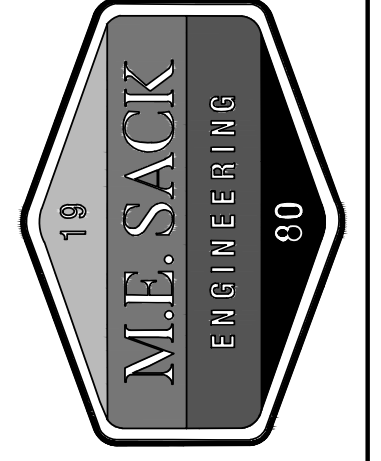
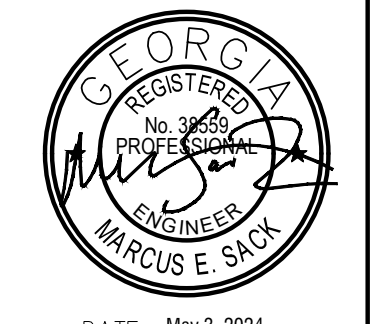
1. CONSTRUCT CHEMICAL BUILDING AND PIPING. CONSTRUCT NEW CHEMICAL BUILDING AND HAVE CHEMICAL TANKS IN OPERATION TO EXISTING DENITRIFICATION TANKS BEFORE DEMOLISHING EXISTING CHEMICAL TANK AND CONSTRUCTING NEW SBR BASINS.
2. CONSTRUCT BELT PRESS BUILDING AND ASSEMBLE BELT PRESS AND CONVEYOR EQUIPMENT. COMPLETE CONSTRUCTION AND CONNECT PIPING BEFORE DEMOLISHING EXISTING BELT PRESS EQUIPMENT. TEMPORARY CONNECTION TO EXISTING DIGESTER MUST BE MADE TO NEW BELT PRESS FOR OPERATION BEFORE CONSTRUCTION OF NEW SBR AND DIGESTER.
3. CONSTRUCT MANUAL BYPASS CHANNEL. CONSTRUCT MANUAL BYPASS CHANNEL BEFORE DEMOLISHING CONCRETE WALLS OF EXISTING CHANNELS. SEE DETAILS ON DEMOLITION PHASE 1 SHEET SET FOR DETAILS.
4. CONSTRUCT SBR BASINS 344 AND BLOWER BUILDING. TIE 18" PIPE FROM POST EQUALIZATION BASIN TO EXISTING PIPE BEFORE PLACING SBR BASINS 344 IN OPERATION.
5. INSTALL EQUIPMENT OF POST EQUALIZATION BASIN.
6. ADD ADDITIONAL FILTER.

ADDITIONAL NOTES:

- ALL EROSION AND SEDIMENT CONTROL ON THE PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL MANUAL FOR GEORGIA.
- THE WASTEWATER TREATMENT PLANT MUST CONTINUE OPERATION FOR THE DURATION OF THE PROJECT. CLOSE COORDINATION WITH OPERATIONS PERSONNEL IS REQUIRED. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES OR EXPENSE OF OPERATIONS CAUSED BY INTERRUPTION. BY THE CONTRACTOR. IF ANY OPERATIONS TO MAINTAIN INTEGRITY OF THE TREATMENT PROCESS. INTERRUPTION OF THE PLANT OPERATIONS WILL NOT BE TOLERATED.
- EXCEPT IN AN EMERGENCY, OPERATION OF ANY ISOLATION OR PROCESS VALVES OR EQUIPMENT CAN ONLY BE PERFORMED BY OPERATIONS PERSONNEL.
- RELOCATION AND REMOVAL OF EQUIPMENT WILL REQUIRE COORDINATION WITH OPERATIONS PERSONNEL. COORDINATE DEMOLITION WORK WITH OPERATIONS MANAGER.
- THE CONTRACTOR IS EXPECTED TO BUILD AND ACHIEVE FULL OPERATION OF SBR PRIOR TO MOVING TO PHASE 2 FOR RETROFITS. CONTRACTOR TO SUBMIT FULL CONSTRUCTION SCHEDULE AND PHASING PLAN WITH BID PACKAGE.

SCALE BAR: 1" = 40'

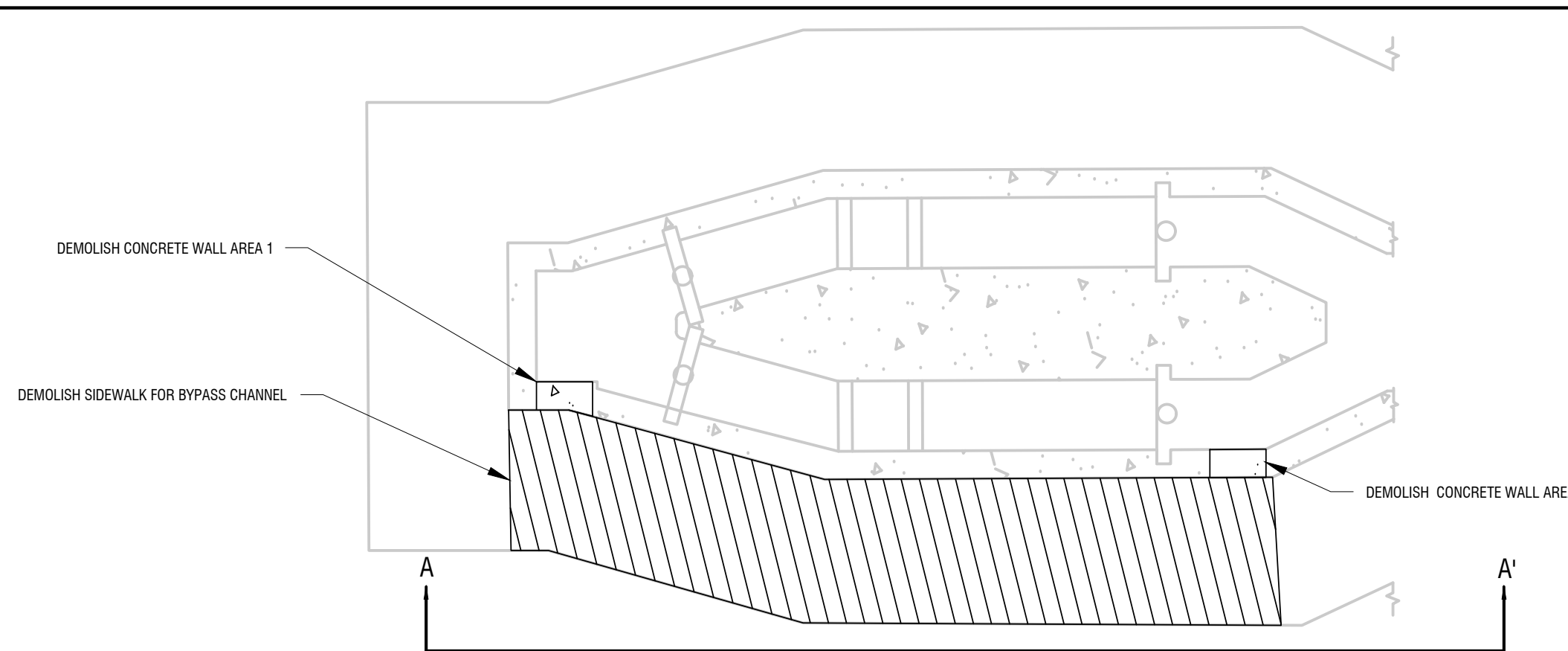
FILE NO: 2020-10 PRJ
PLOT DATE: May 3, 2024



WWTP
Expansion

SITE PLAN
PHASE 1

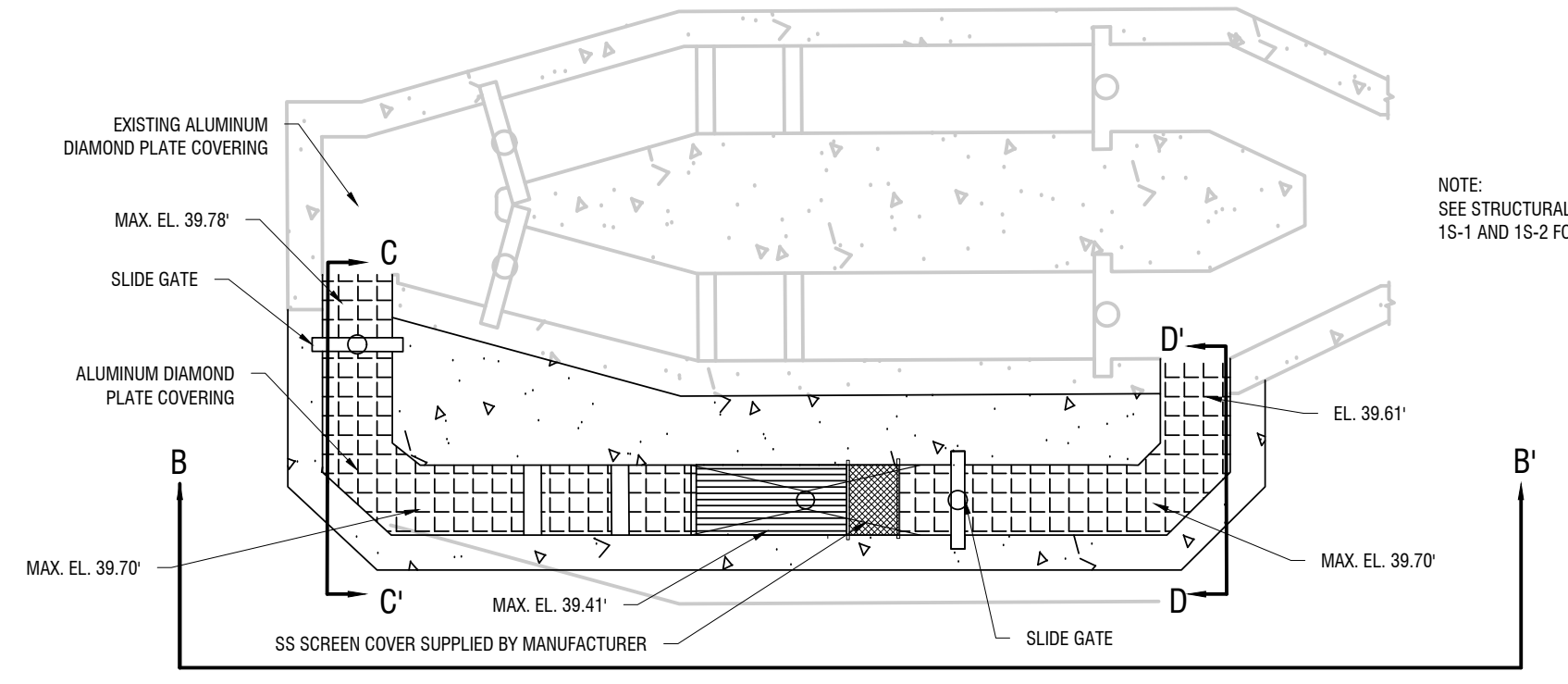
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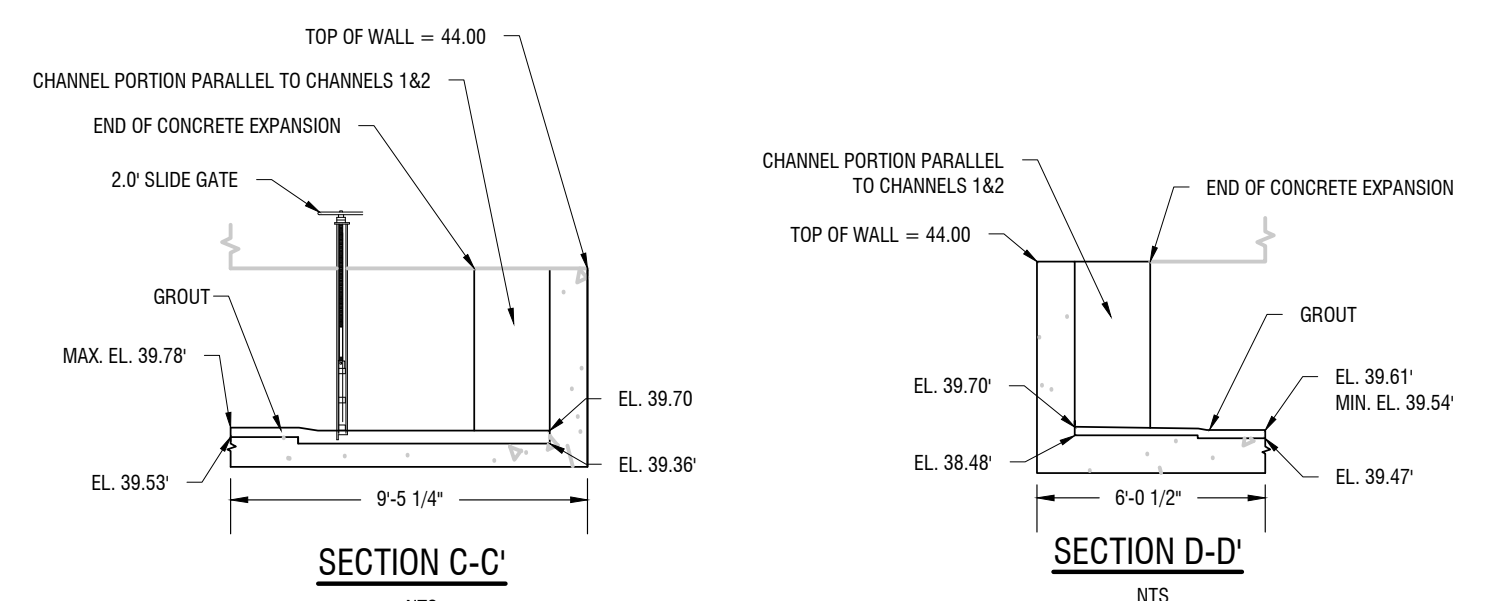
SCREENING DEMOLITION PLAN VIEW
NTS



SCREENING DEMOLITION PROFILE VIEW SECTION A-A'
NTS

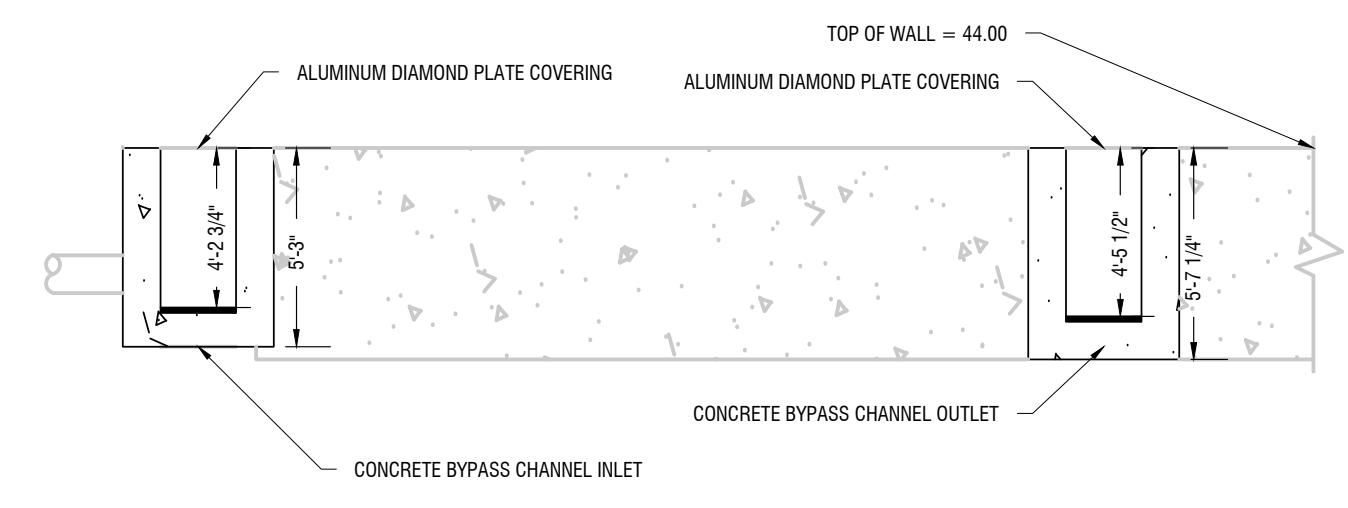


SCREENING FINAL CONCRETE PLAN VIEW
NTS



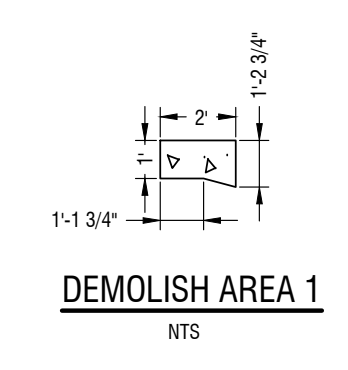
SECTION C-C'
NTS

SECTION D-D'
NTS

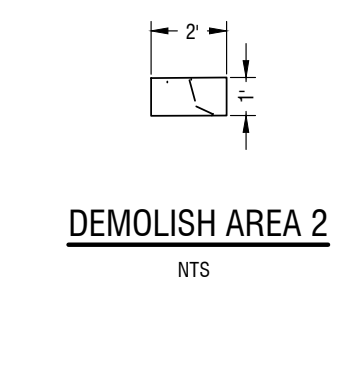


SCREENING FINAL CONCRETE PROFILE VIEW SECTION B-B'
NTS

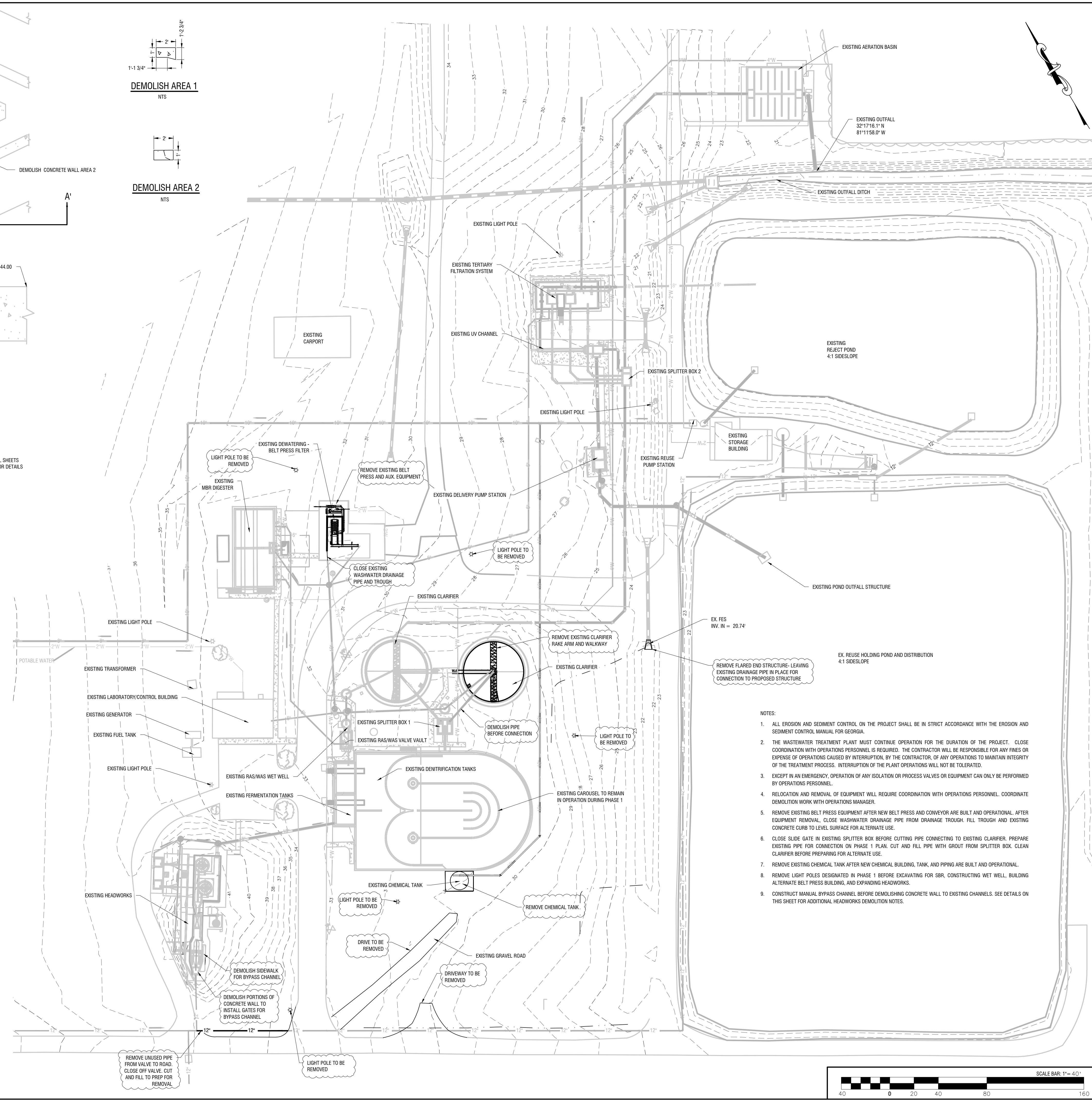
- NOTE:**
- 1) CONSTRUCT MANUAL BYPASS CHANNEL BEFORE DEMOLISHING EXISTING CONCRETE WALL.
 - 2) MAINTAIN CURRENT FLOOR OF EXISTING CHANNEL AT DEMOLITION LOCATION.
 - 3) USE WATER STOP BEFORE DEMOLITION TO PREVENT WATER LEAKAGE.
 - 4) ALL CONCRETE SURFACES IN THE HEADWORKS ABOVE THE LOW WATER LEVEL WILL BE COATED WITH EPOXY OR POLYUREA SYSTEM IN ACCORDANCE WITH SPECIFICATIONS.
 - 5) THE MANUAL BYPASS CHANNEL WILL BE COVERED WITH SAME ALUMINUM DIAMOND PLATE AS OTHER CHANNELS TO CREATE AN AIR AND WATER TIGHT COVER CAPABLE OF MEETING NEGATIVE PRESSURE REQUIREMENTS OF THE ODOR CONTROL SYSTEM. ANGLE FOR DIAMOND PLATE SHALL BE RUN FOR THE LENGTH OF CHANNEL. LEAVE 3/8" GAP FOR EXPANSION. IMPERMEABLE GASKET REQUIRED WITH DIAMOND PLATE.
 - 6) MANUAL BAR SCREEN WILL NOT BE COVERED WITH DIAMOND PLATE. COVER FOR SCREEN WILL BE PROVIDED WITH AIR AND WATER TIGHT GASKETS AND EASY ACCESS FOR RAKING BY MANUFACTURER.
 - 7) SEE ADDITIONAL DETAILS FOR FINAL DESIGN ON HEADWORKS SHEET.
 - 8) SEE SIDEWALK DETAILS ON HEADWORKS SHEET.



DEMOLISH AREA 1
NTS



DEMOLISH AREA 2
NTS

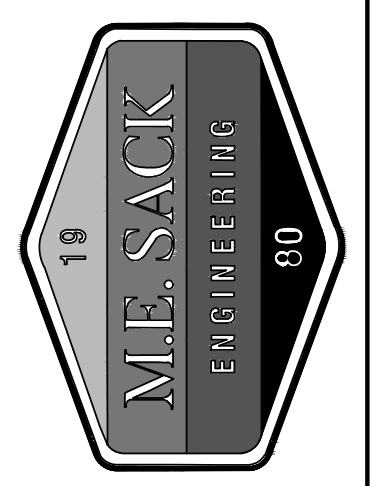
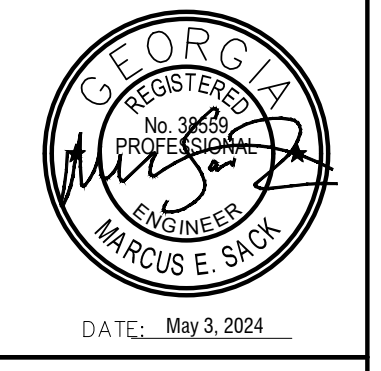


- NOTES:**
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 2. THE WASTEWATER TREATMENT PLANT MUST CONTINUE OPERATION FOR THE DURATION OF THE PROJECT. CLOSE COORDINATION WITH OPERATIONS PERSONNEL IS REQUIRED. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES OR EXPENSE OF OPERATIONS CAUSED BY INTERRUPTION, BY THE CONTRACTOR, OF ANY OPERATIONS TO MAINTAIN INTEGRITY OF THE TREATMENT PROCESS. INTERRUPTION OF THE PLANT OPERATIONS WILL NOT BE TOLERATED.
 3. EXCEPT IN AN EMERGENCY, OPERATION OF ANY ISOLATION OR PROCESS VALVES OR EQUIPMENT CAN ONLY BE PERFORMED BY OPERATIONS PERSONNEL.
 4. RELOCATION AND REMOVAL OF EQUIPMENT WILL REQUIRE COORDINATION WITH OPERATIONS PERSONNEL. COORDINATE DEMOLITION WORK WITH OPERATIONS MANAGER.
 5. REMOVE EXISTING BELT PRESS EQUIPMENT AFTER NEW BELT PRESS AND CONVEYOR ARE BUILT AND OPERATIONAL. AFTER EQUIPMENT REMOVAL, CLOSE WASTEWATER DRAINAGE PIPE FROM DRAINAGE TROUGH, FILL TROUGH AND EXISTING CONCRETE CURB TO LEVEL SURFACE FOR ALTERNATE USE.
 6. CLOSE SLIDE GATE IN EXISTING SPLITTER BOX BEFORE CUTTING PIPE CONNECTING TO EXISTING CLARIFIER. PREPARE EXISTING PIPE FOR CONNECTION ON PHASE 1 PLAN. CUT AND FILL PIPE WITH GROUT FROM SPLITTER BOX. CLEAN CLARIFIER BEFORE PREPARING FOR ALTERNATE USE.
 7. REMOVE EXISTING CHEMICAL TANK AFTER NEW CHEMICAL BUILDING, TANK, AND PIPING ARE BUILT AND OPERATIONAL.
 8. REMOVE LIGHT POLES DESIGNATED IN PHASE 1 BEFORE EXCAVATING FOR SBR, CONSTRUCTING WET WELL, BUILDING ALTERNATE BELT PRESS BUILDING, AND EXPANDING HEADWORKS.
 9. CONSTRUCT MANUAL BYPASS CHANNEL BEFORE DEMOLISHING CONCRETE WALL TO EXISTING CHANNELS. SEE DETAILS ON THIS SHEET FOR ADDITIONAL HEADWORKS DEMOLITION NOTES.

REVISIONS:

1	MCC BUILDING
2	MCC BUILDING
3	GSWCC REVISION
4	EPD REVISION

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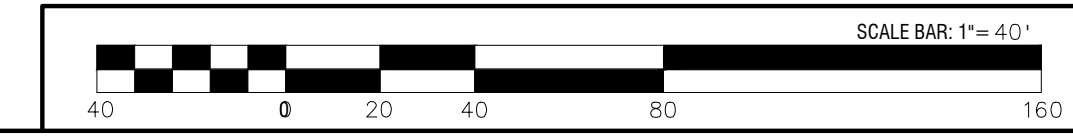
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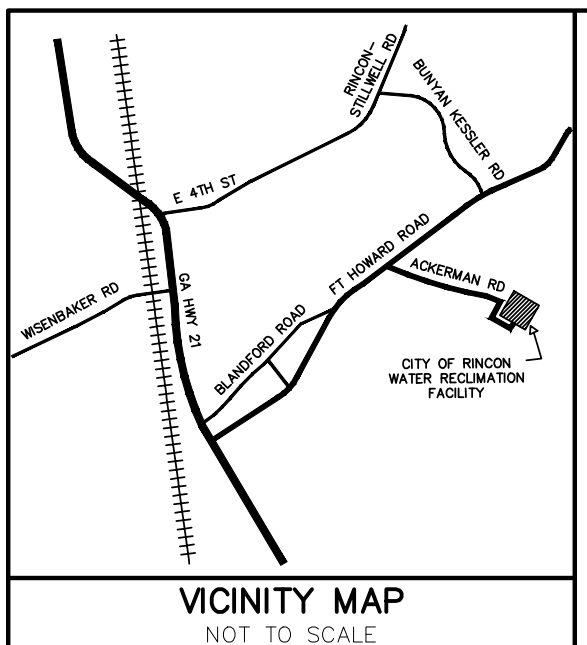
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DEMOLITION PLAN PHASE 1

G4

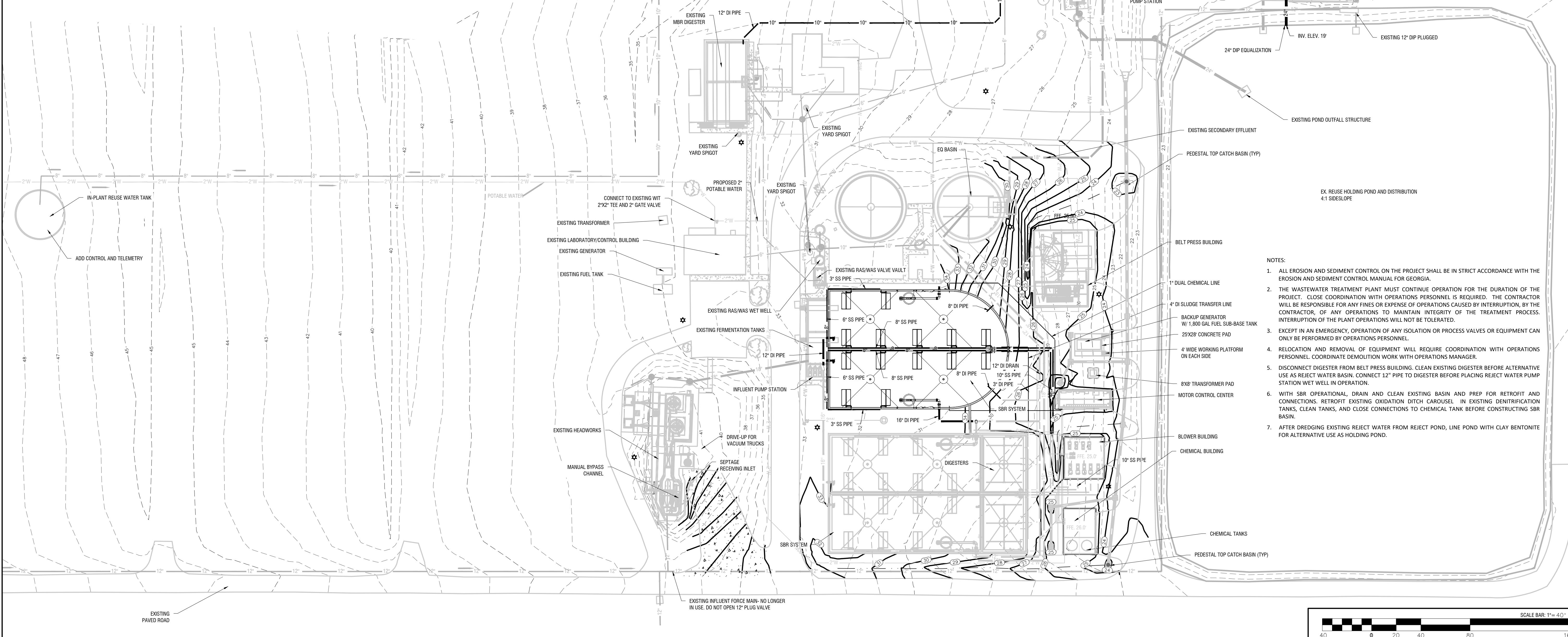
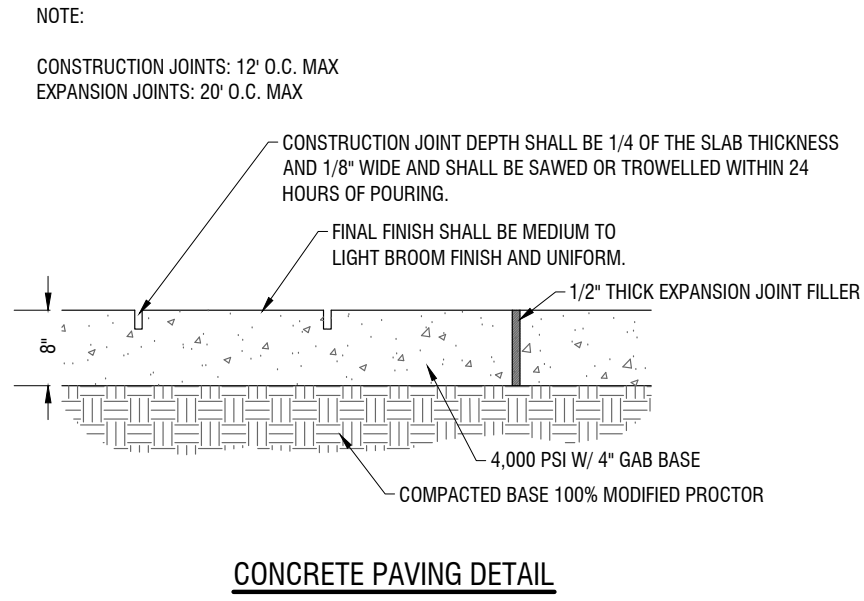
FILE NO: 2020-10 PRJ
 PLOT DATE: May 3, 2024





EPD PIPING COLOR CODE

WATER LINES		SLUDGE LINES	
RAW OR RECYCLE	OLIVE GREEN	ALUM OR PRIMARY COAGULANT	ORANGE
FINISHED OR POTABLE WATER	DARK BLUE	AMMONIA	WHITE
SETTLED OR CLARIFIED	AQUA	CAUSTIC	YELLOW W/ GREEN BAND
WATER FOR HEATING	BLUE W/ RED BANDS	CHLORINE (GAS AND SOLUTION)	YELLOW
		POLYMERS OR COAGULANT AIDS	ORANGE W/ GREEN BAND
		POTASSIUM PERMANGANATE	VIOLET
		SODA ASH	LIGHT GREEN W/ ORANGE BAND
		SULFURIC ACID	YELLOW W/ RED BAND
		SULFUR DIOXIDE	LIGHT GREEN W/ YELLOW BAND
WASTE LINES		OTHER LINES	
BACKWASH WASTE	LIGHT BROWN	COMPRESSED AIR	DARK GREEN
SLUDGE	DARK BROWN	SLUDGE GAS	RED
SEWER (SANITARY OR OTHER)	DARK GRAY	NATURAL GAS	RED W/ BLACK BANDS
		OTHER LINES	LIGHT GRAY

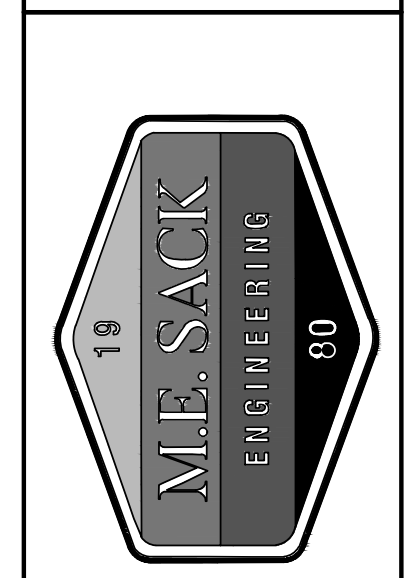
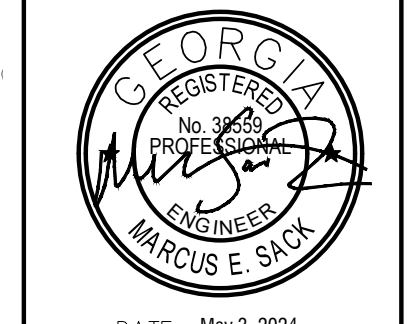


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 - DISCONNECT DIGESTER FROM BELT PRESS BUILDING. CLEAN EXISTING DIGESTER BEFORE ALTERNATIVE USE AS REJECT WATER BASIN. CONNECT 12" PIPE TO DIGESTER BEFORE PLACING REJECT WATER PUMP STATION WET WELL IN OPERATION.
 - WITH SBR OPERATIONAL, DRAIN AND CLEAN EXISTING BASIN AND PREP FOR RETROFIT AND CONNECTIONS. RETROFIT EXISTING OXIDATION DITCH CAROUSEL. IN EXISTING DENITRIFICATION TANKS, CLEAN TANKS, AND CLOSE CONNECTIONS TO CHEMICAL TANK BEFORE CONSTRUCTING SBR BASIN.
 - AFTER DREDGING EXISTING REJECT WATER FROM REJECT POND, LINE POND WITH CLAY BENTONITE FOR ALTERNATIVE USE AS HOLDING POND.

REVISIONS:

1	MCC BUILDING
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3	GSWCC REVISION
4	EPD REVISION

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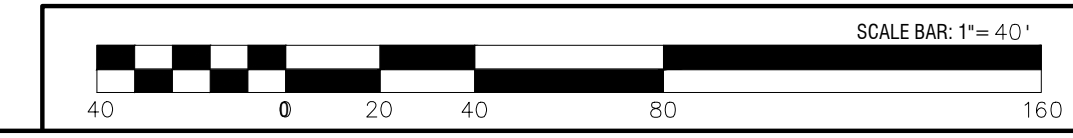
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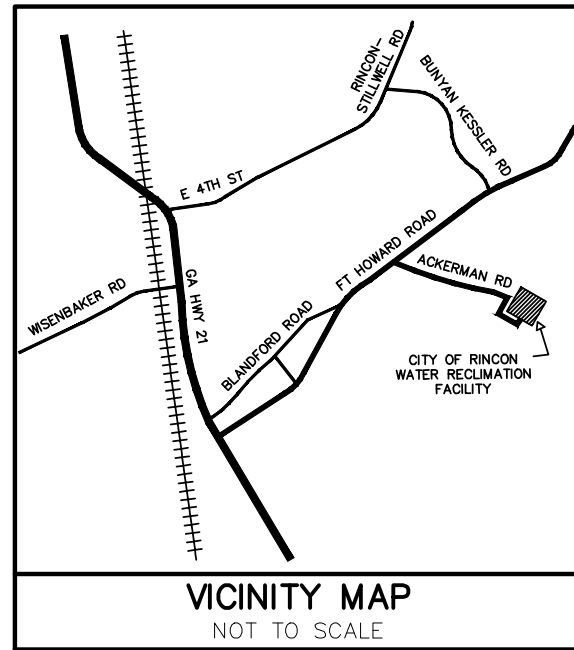
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SITE PLAN PHASE 2

G5

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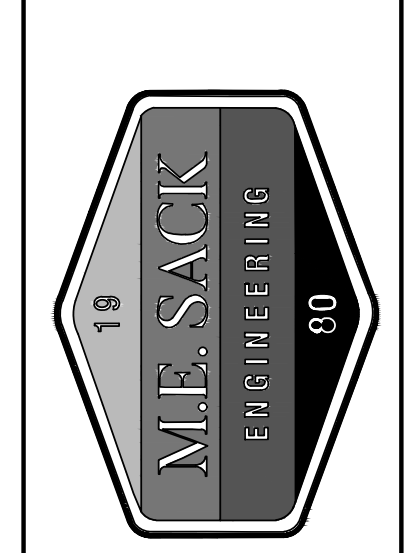
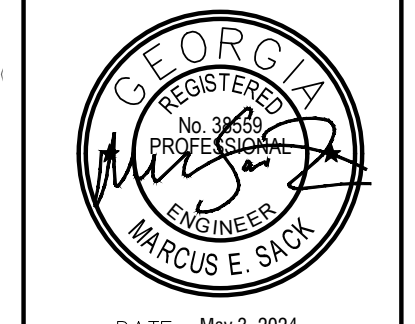


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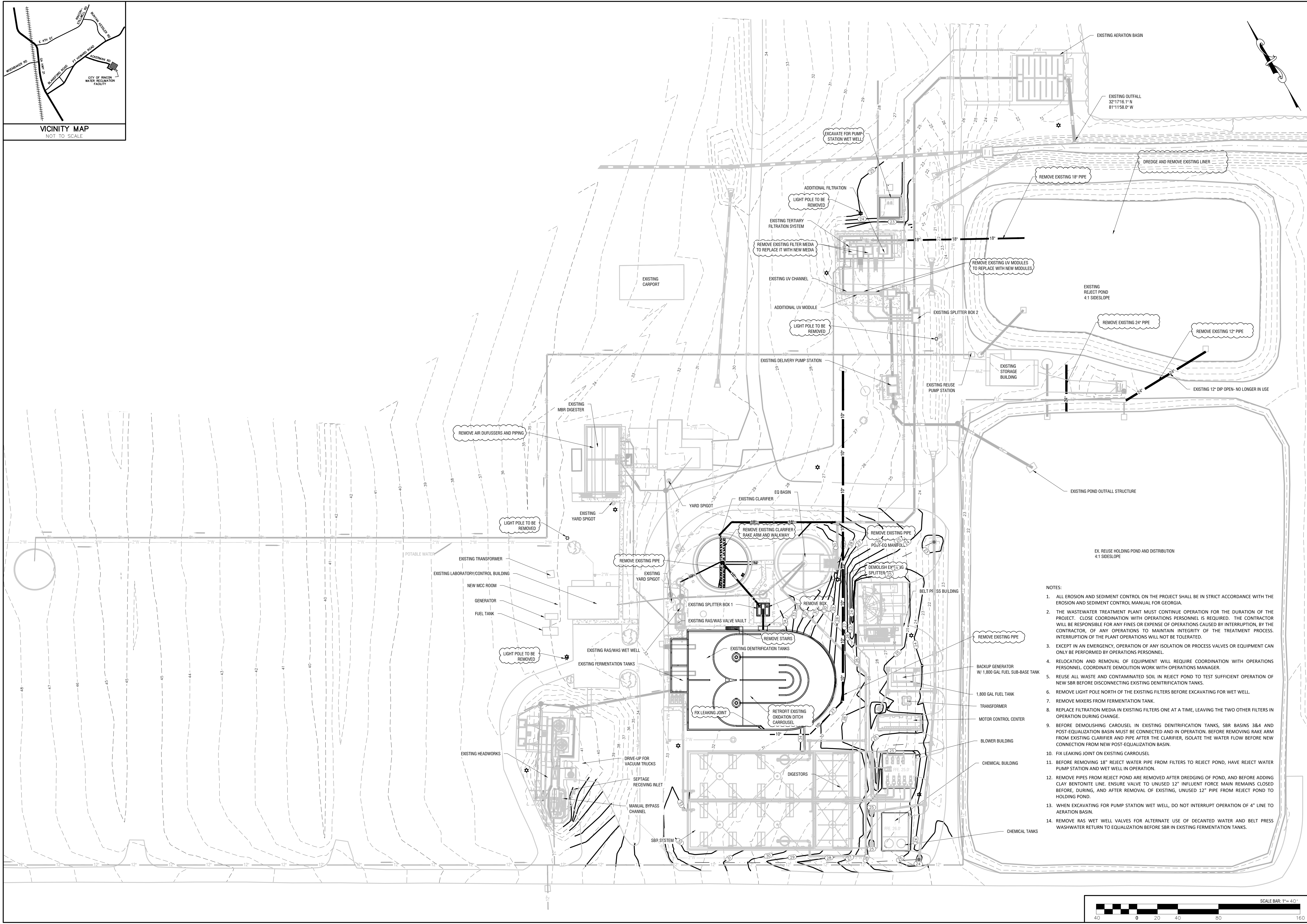
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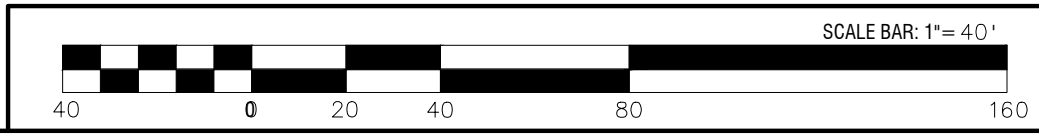
**DEMOLITION
 PLAN PHASE 2**

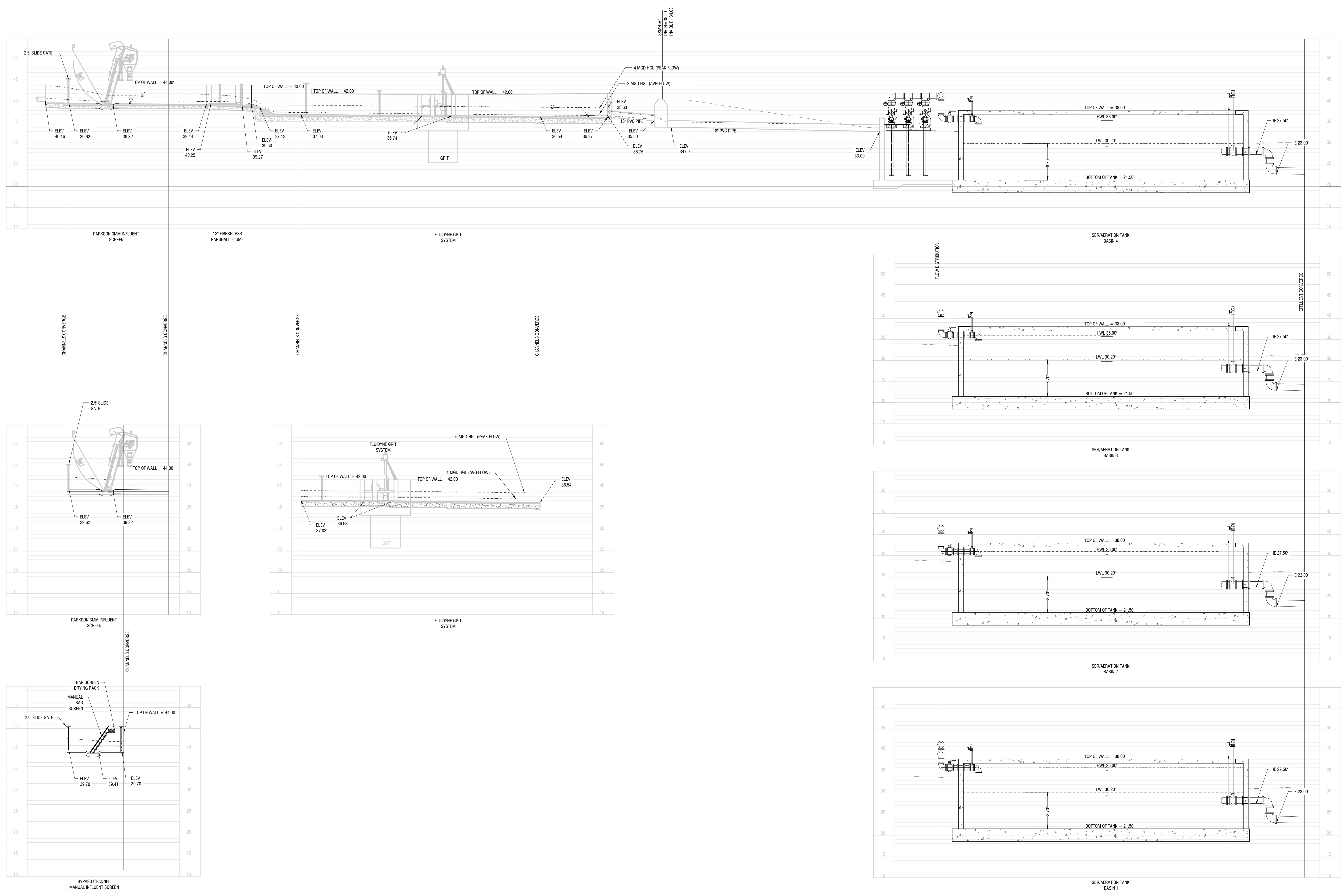
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 - REUSE ALL WASTE AND CONTAMINATED SOIL IN REJECT POND TO TEST SUFFICIENT OPERATION OF NEW SBR BEFORE DISCONNECTING EXISTING DENITRIFICATION TANKS.
 - REMOVE LIGHT POLE NORTH OF THE EXISTING FILTERS BEFORE EXCAVATING FOR WET WELL.
 - REMOVE MIXERS FROM FERMENTATION TANK.
 - REPLACE FILTRATION MEDIA IN EXISTING FILTERS ONE AT A TIME, LEAVING THE TWO OTHER FILTERS IN OPERATION DURING CHANGE.
 - BEFORE DEMOLISHING CAROUSEL IN EXISTING DENITRIFICATION TANKS, SBR BASINS 3&4 AND POST-EQUALIZATION BASIN MUST BE CONNECTED AND IN OPERATION, BEFORE REMOVING RAKE ARM FROM EXISTING CLARIFIER AND PIPE AFTER THE CLARIFIER, ISOLATE THE WATER FLOW BEFORE NEW CONNECTION FROM NEW POST-EQUALIZATION BASIN.
 - FIX LEAKING JOINT ON EXISTING CAROUSEL
 - BEFORE REMOVING 18" REJECT WATER PIPE FROM FILTERS TO REJECT POND, HAVE REJECT WATER PUMP STATION AND WET WELL IN OPERATION.
 - REMOVE PIPES FROM REJECT POND ARE REMOVED AFTER DREDGING OF POND, AND BEFORE ADDING CLAY BENTONITE LINE. ENSURE VALVE TO UNUSED 12" INFLUENT FORCE MAIN REMAINS CLOSED BEFORE, DURING, AND AFTER REMOVAL OF EXISTING, UNUSED 12" PIPE FROM REJECT POND TO HOLDING POND.
 - WHEN EXCAVATING FOR PUMP STATION WET WELL, DO NOT INTERRUPT OPERATION OF 4" LINE TO AERATION BASIN.
 - REMOVE RAS WET WELL VALVES FOR ALTERNATE USE OF DECANTED WATER AND BELT PRESS WASHWATER RETURN TO EQUALIZATION BEFORE SBR IN EXISTING FERMENTATION TANKS.





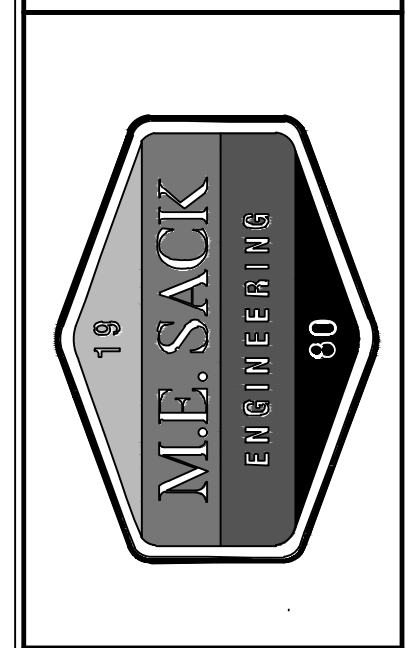
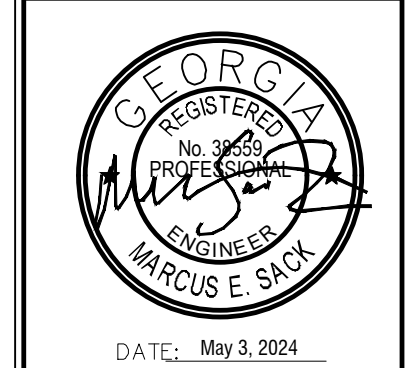
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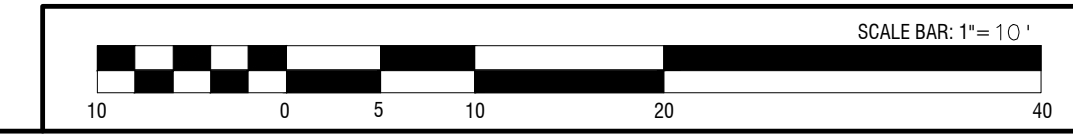
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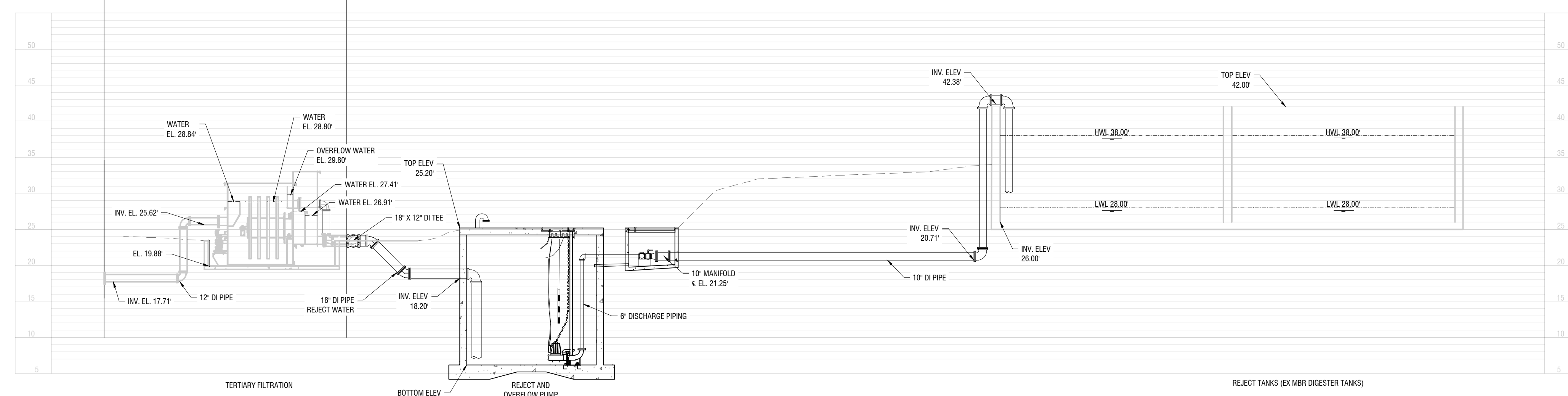
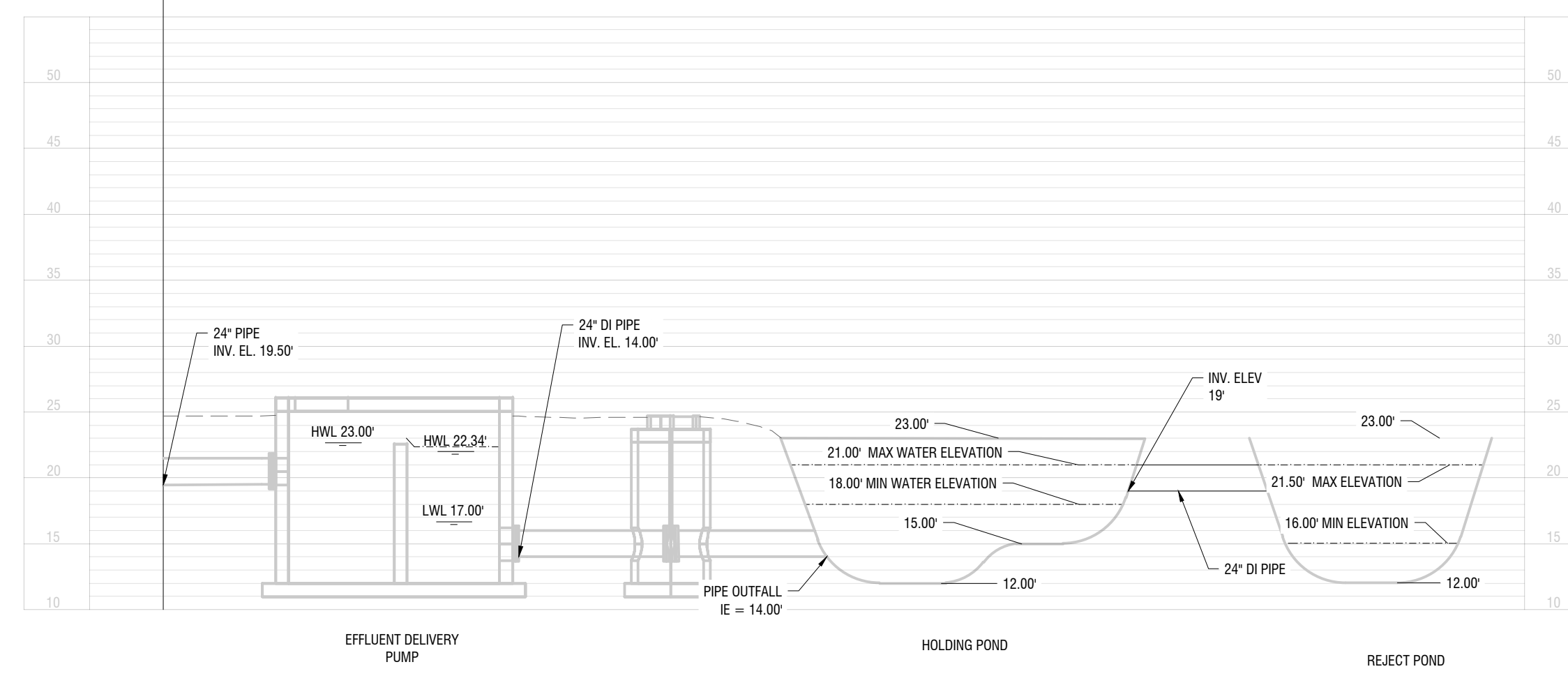
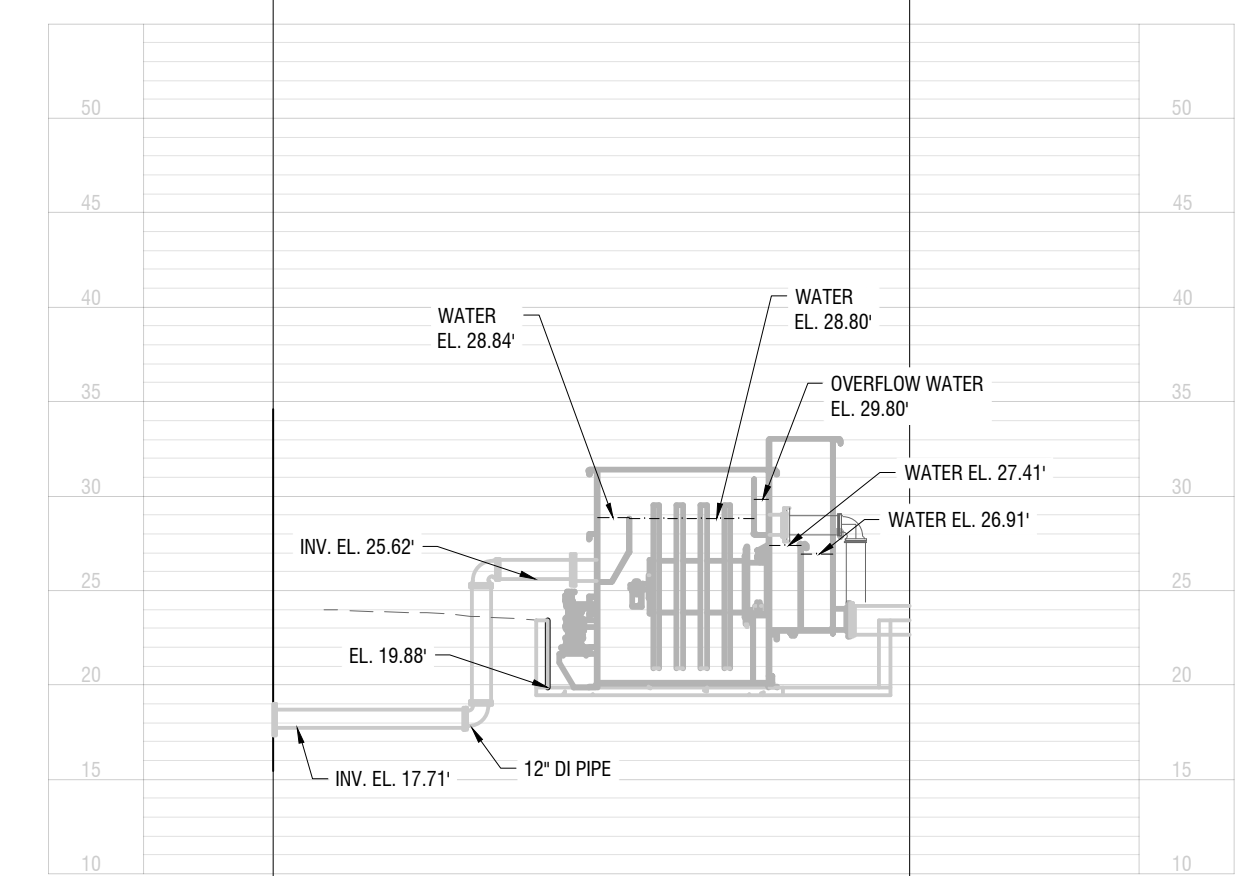
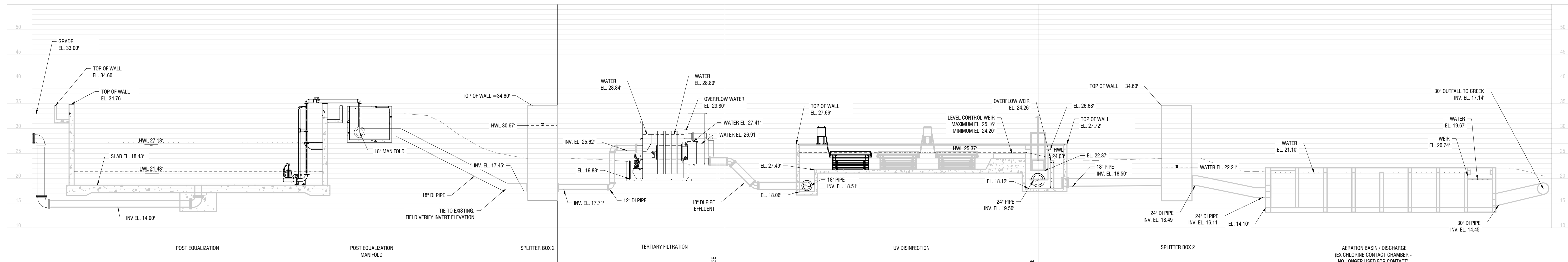
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HYDRAULIC PROFILE 1/2

G8

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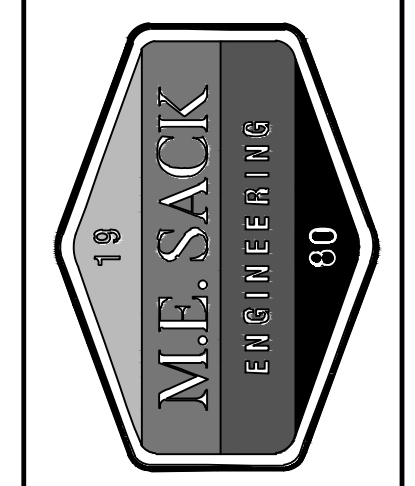
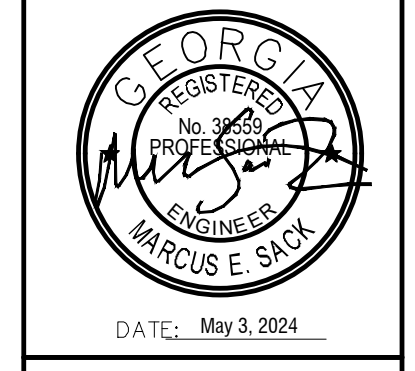


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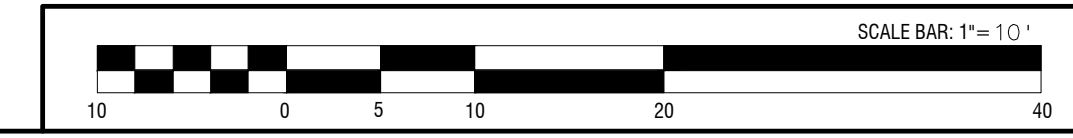
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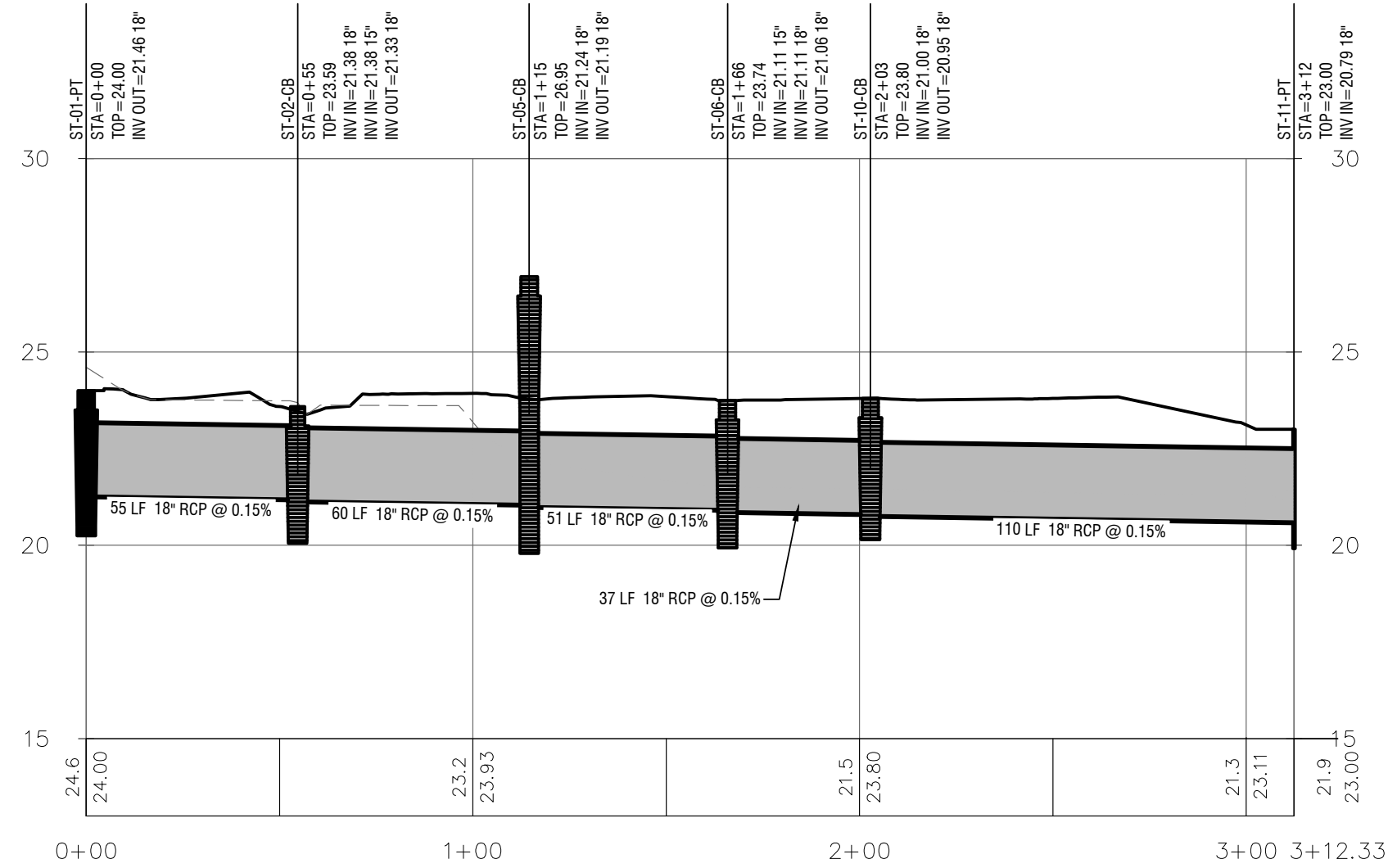
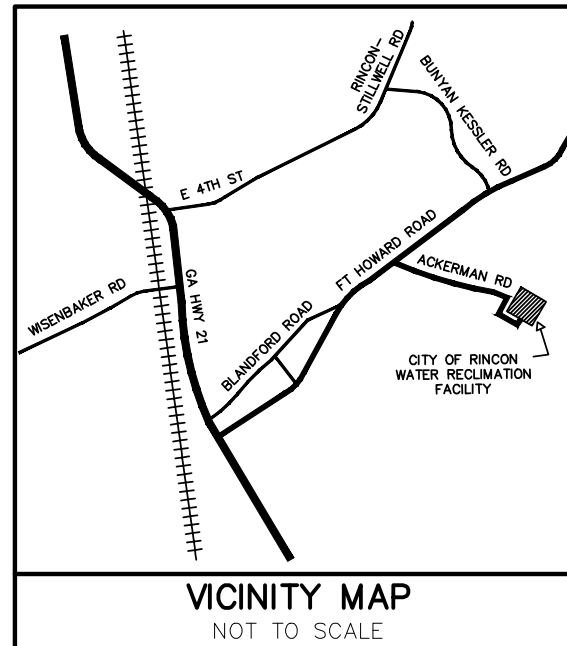
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**HYDRAULIC
PROFILE 2/2**

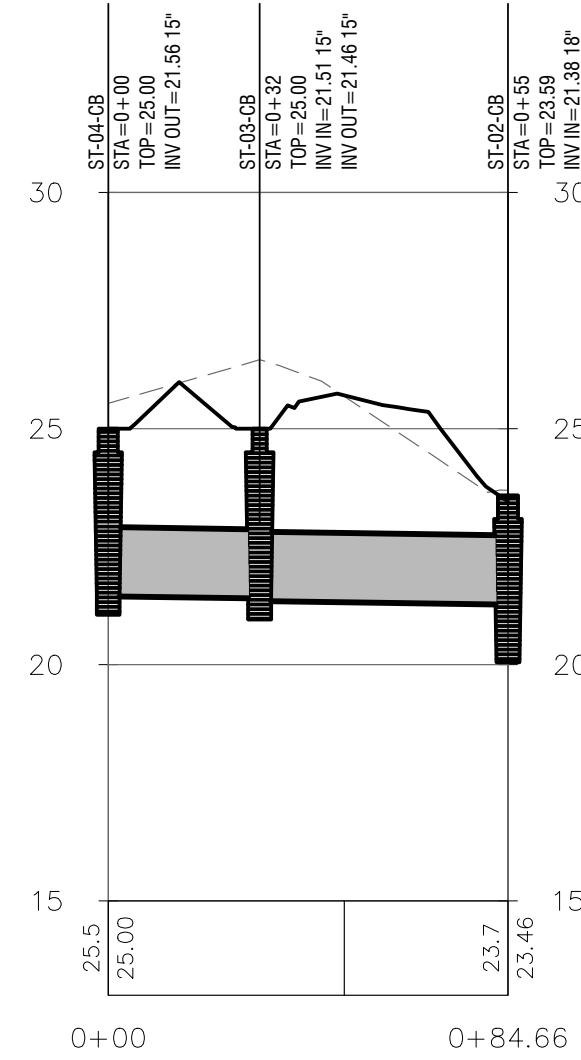
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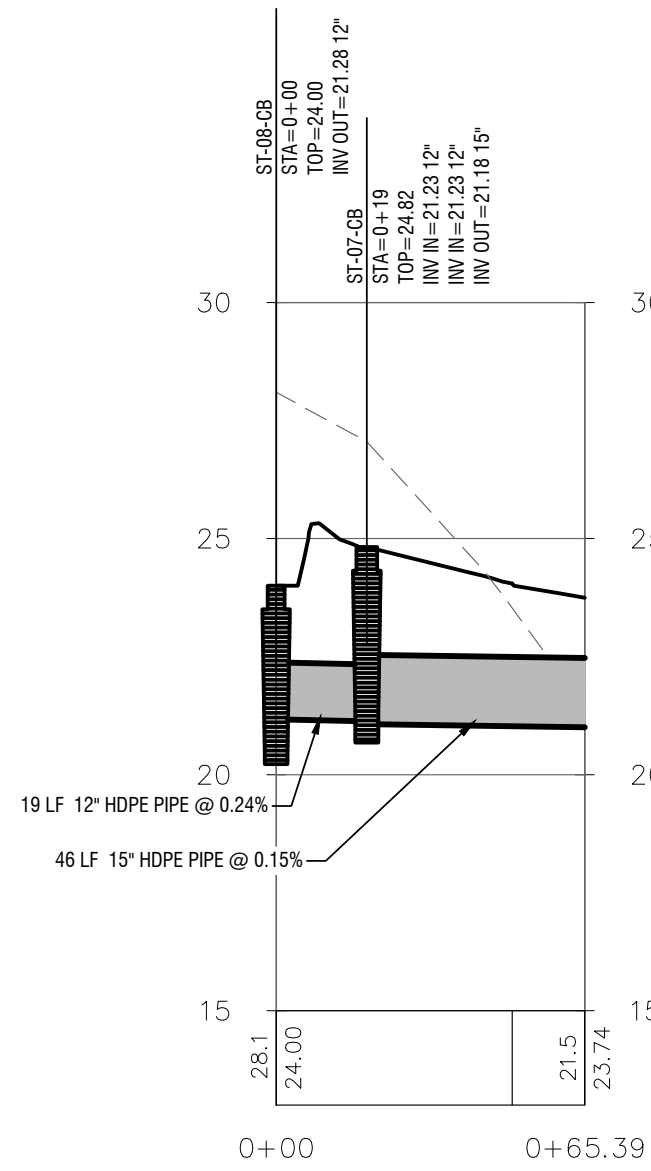
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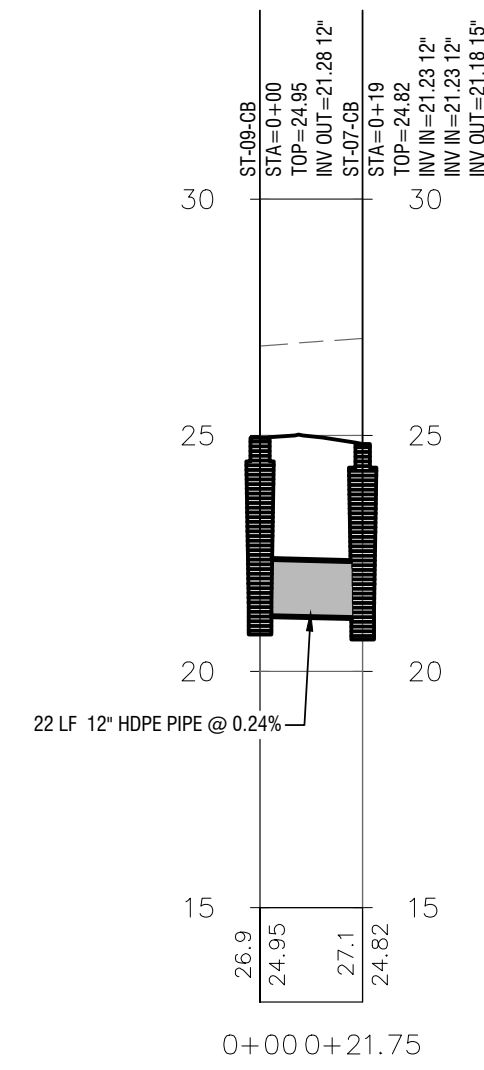
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HORIZ SCALE: 1"=50'



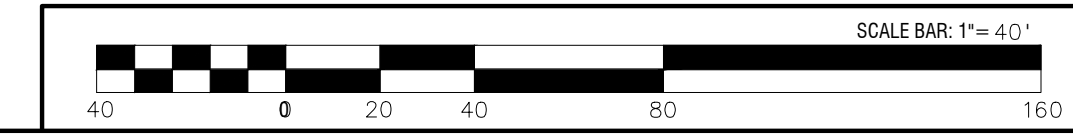
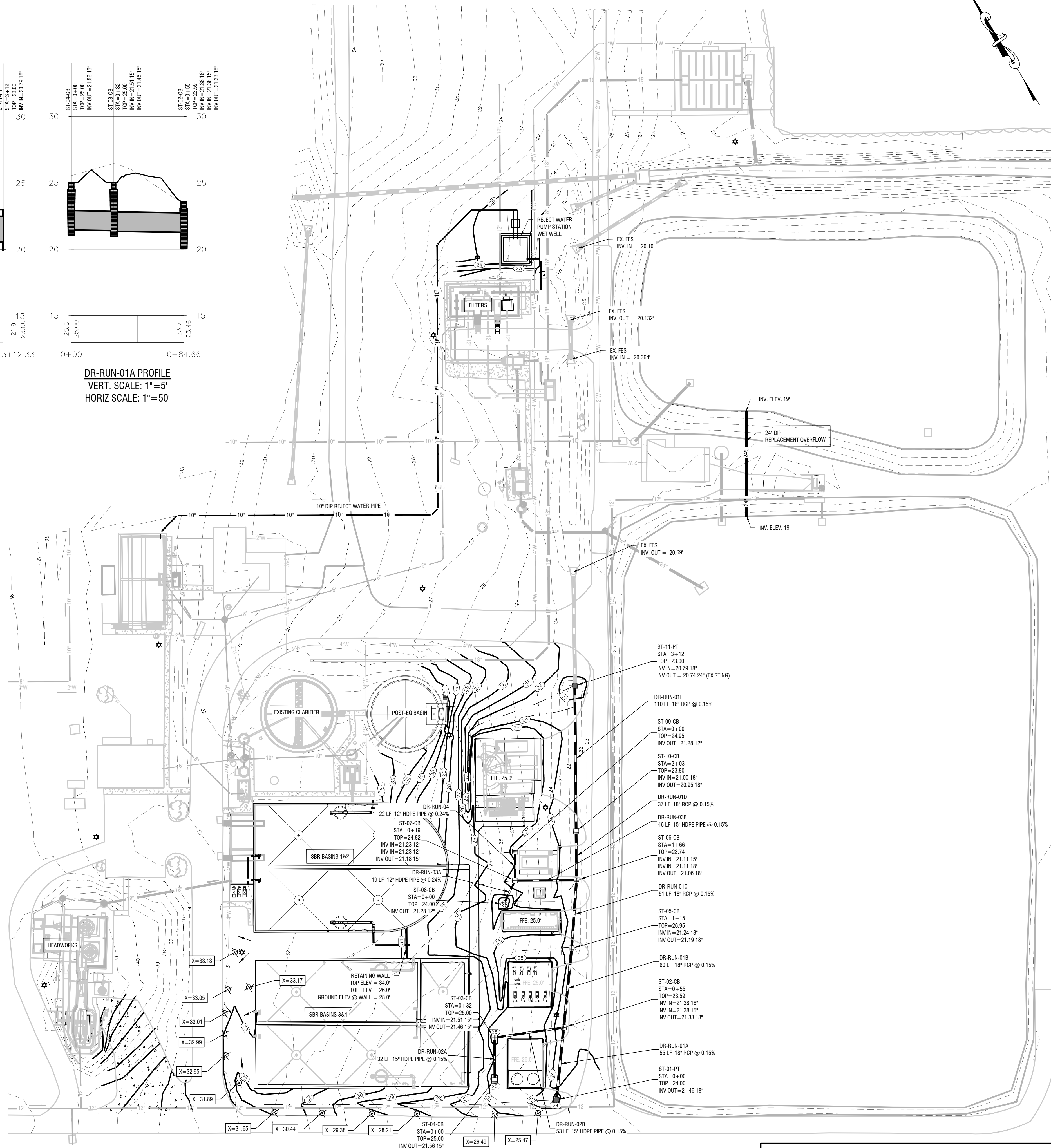
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VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



DR-RUN-01C PROFILE
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DR-RUN-01D PROFILE
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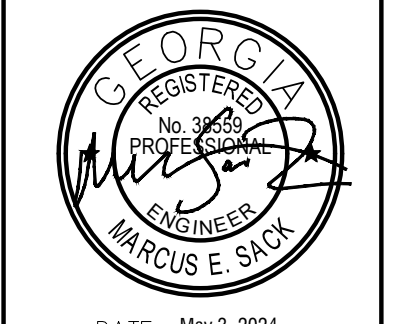


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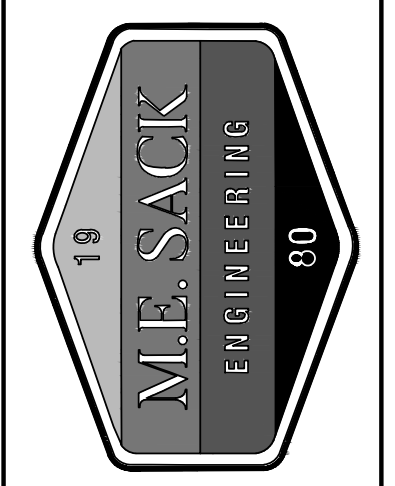
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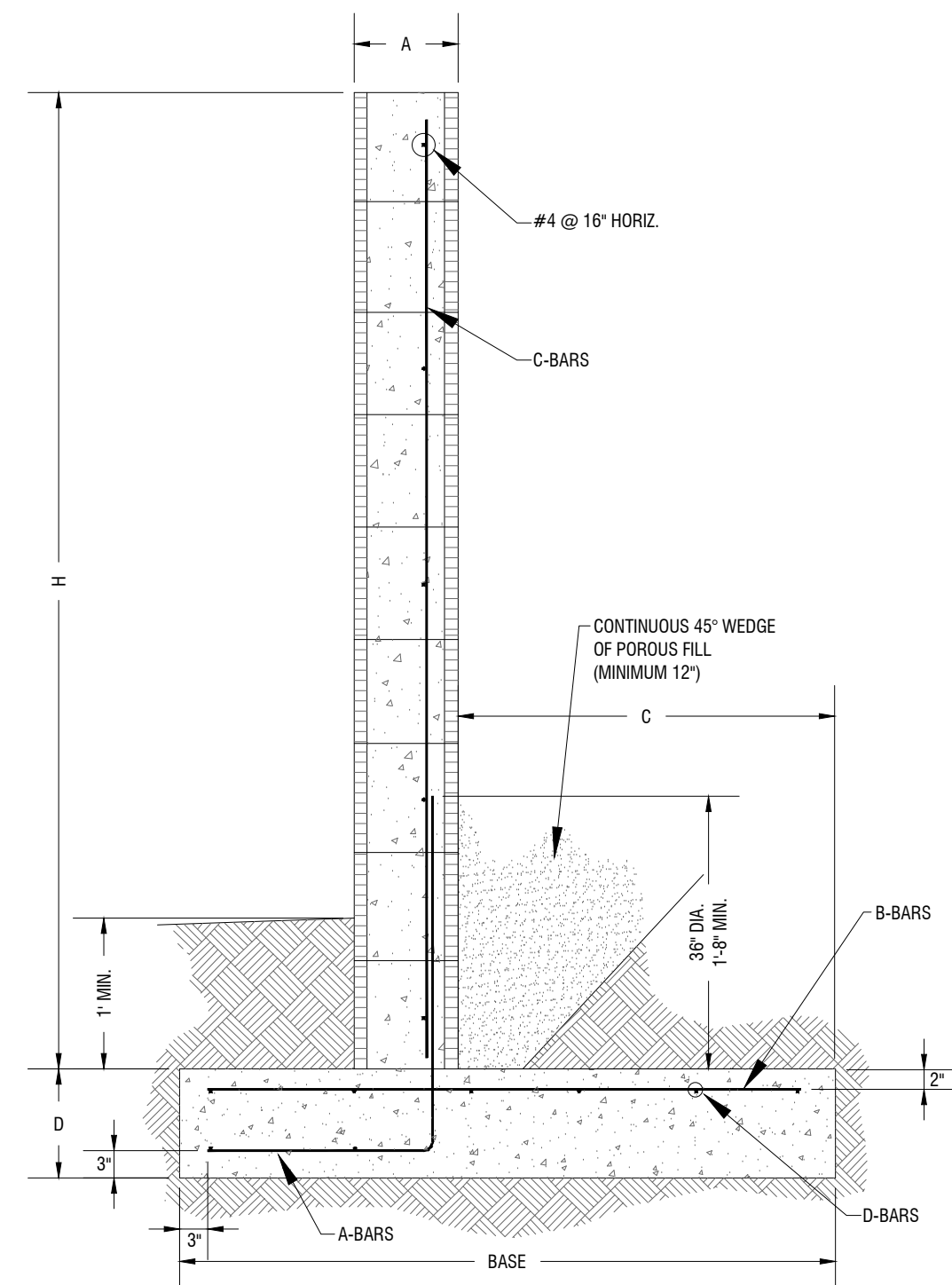
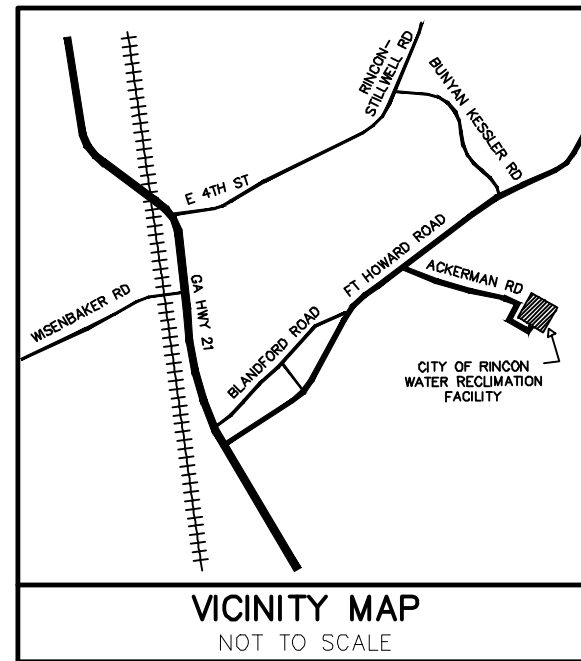
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GRADING PLAN

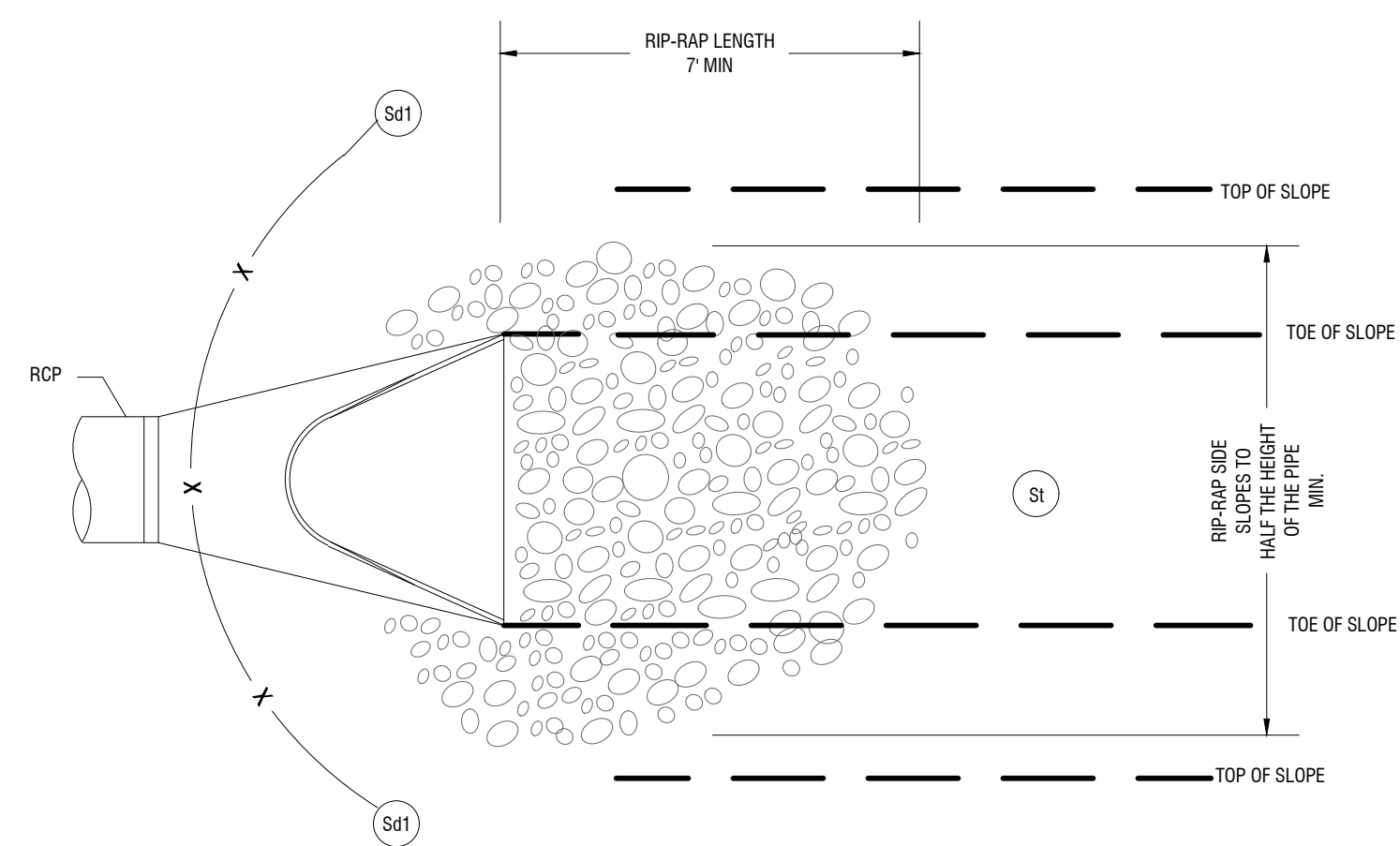
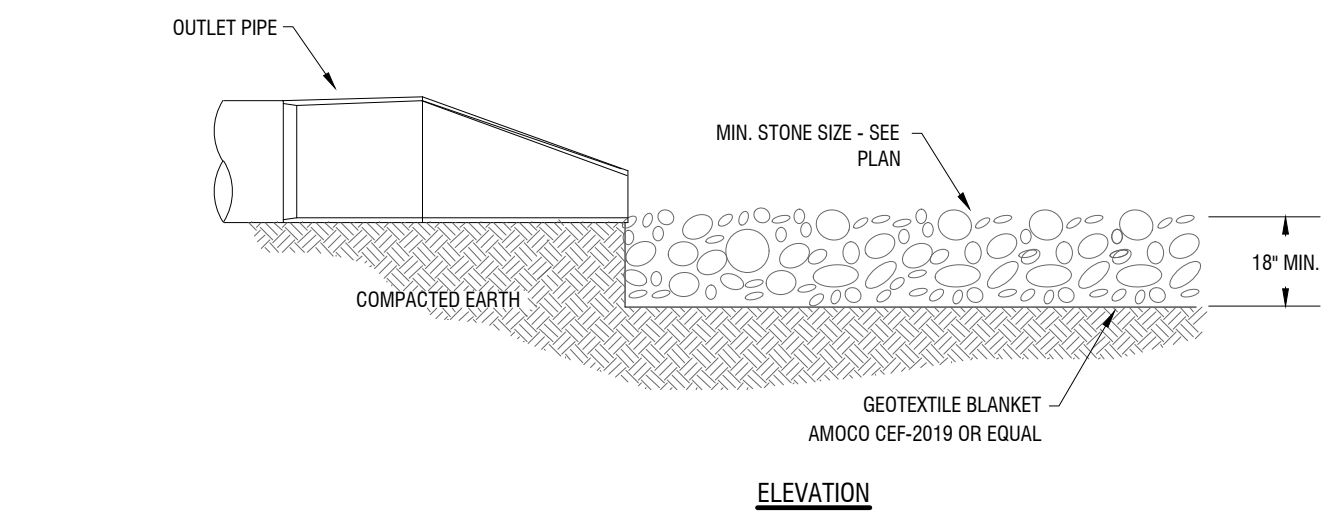
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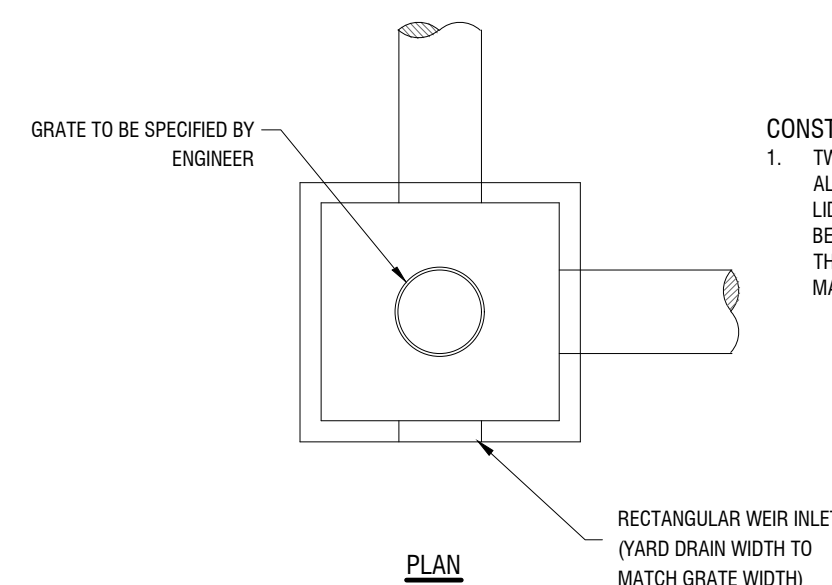


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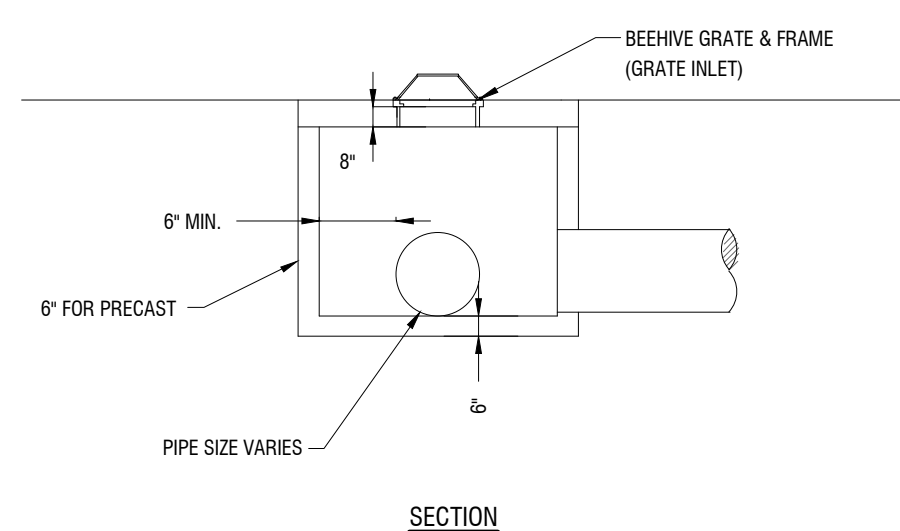
RETAINING WALL DETAIL
N.T.S.



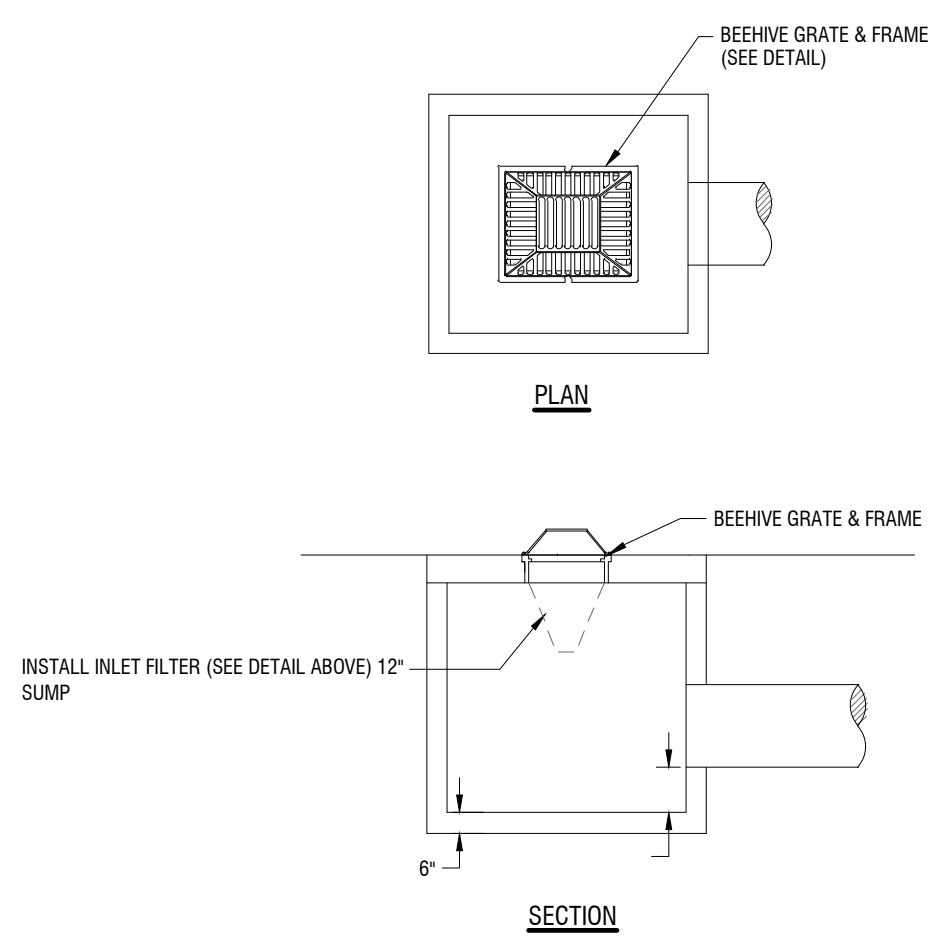
EXISTING PRECAST FLARED END SECTION
N.T.S.



CONSTRUCTION NOTES:
1. TWO COURSES OF BRICK MAX SHALL BE ALLOWED FOR LEVELING AND ADJUSTMENT OF LID. ANY SUPPORT OTHER THAN BRICK SHALL BE POURED IN PLACE MATCHING THE THICKNESS OF THE PRECAST WALL TO A MAXIMUM HEIGHT OF 24 INCHES.

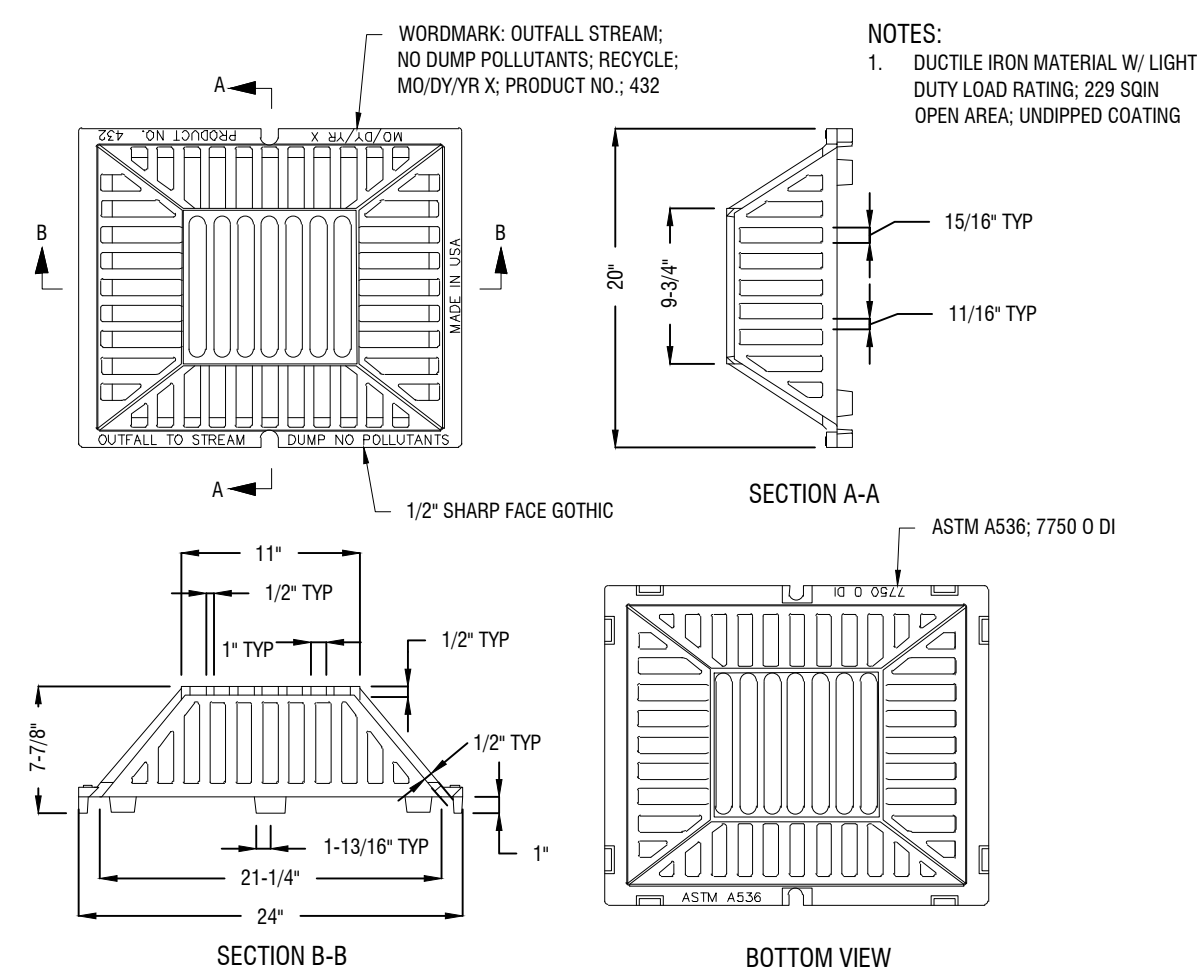


JUNCTION BOX / GRATE INLET
N.T.S.

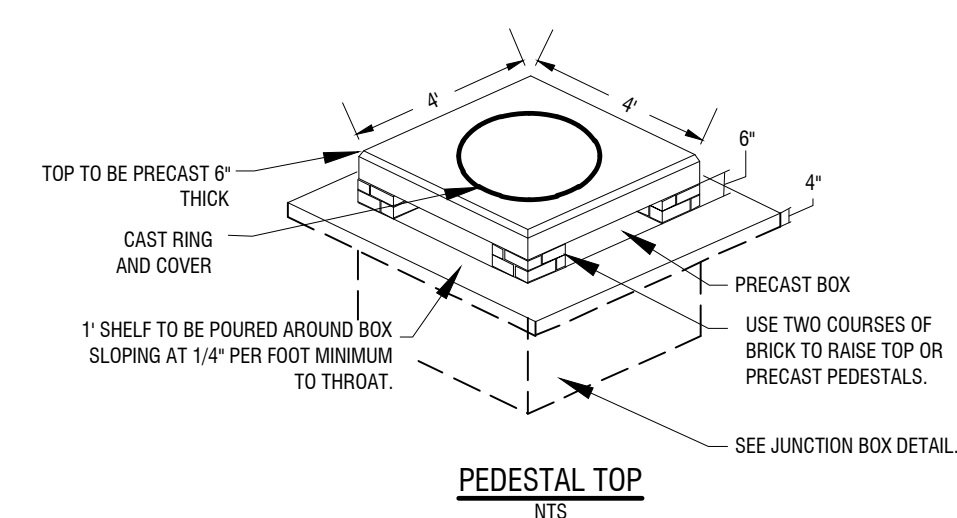


CONSTRUCTION NOTES:
1. TWO COURSES OF BRICK MAX SHALL BE ALLOWED FOR LEVELING AND ADJUSTMENT OF LID. ANY SUPPORT OTHER THAN BRICK SHALL BE POURED IN PLACE MATCHING THE THICKNESS OF THE PRECAST WALL TO A MAXIMUM HEIGHT OF 24 INCHES.

GRATE INLET
N.T.S.



BEEHIVE GRATE
N.T.S.

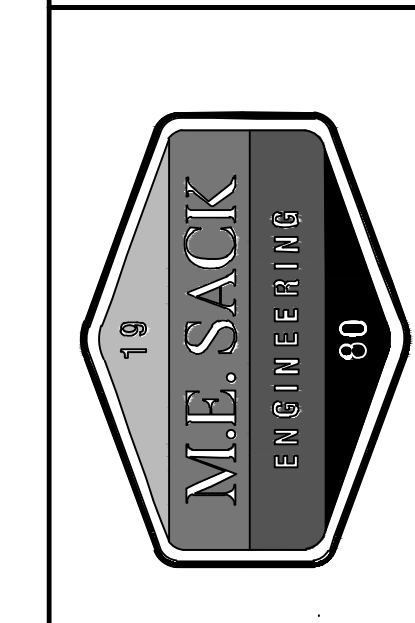


REVISIONS:

1	MCC BUILDING
2	MCC BUILDING
3	GSWCC REVISION
4	EPD REVISION

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COUNTY:
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OWNER:
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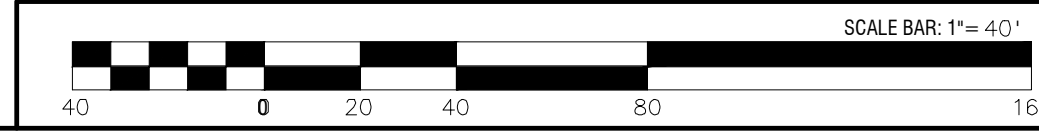
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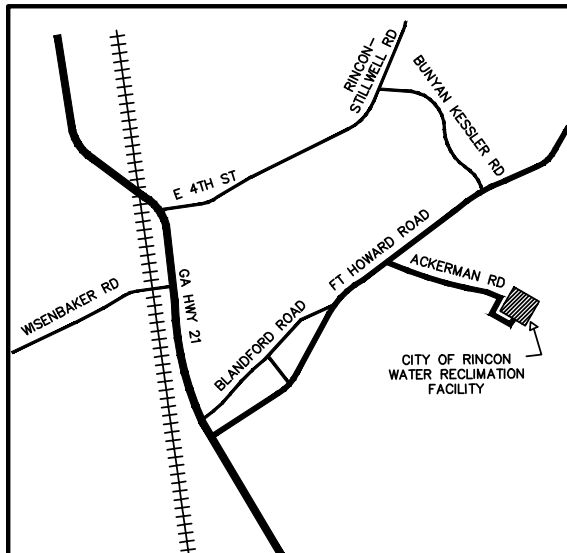
WWTP
Expansion

GRADING
DETAILS

C2

FILE NO: 2020-10 PRJ
PLOT DATE: May 3, 2024





VICINITY MAP
NOT TO SCALE

RUNOFF COEFFICIENT

PRE - CONSTRUCTION CN = 65
POST - CONSTRUCTION CN = 68

SITE INFORMATION:

TOTAL SITE AREA = 10.49 AC
TOTAL DISTURBED AREA = 7.72 AC

EXISTING CONDITIONS:

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

SOIL LEGEND

W	WATER
Ud	UDORTHERTS, LOAMY
SuA	SURRENCY MUCKY SAND

SILT STORAGE CALCULATION

ESTIMATED EROSION = 7.72 AC. X 67 C.Y./AC. = 518 C.Y. STORAGE CAPACITY REQUIRED.

SEDIMENT BASIN STORAGE AVAILABLE = 6,967 C.Y.

Sd1-S STORAGE AVAILABLE = 1,492 LF X .17 C.Y./LF = 254 C.Y.

Sd1-NS STORAGE AVAILABLE = 3,058 LF X .17 C.Y./LF = 520 C.Y.

TOTAL AVAILABLE SEDIMENT STORAGE = 7,741 C.Y.

Rt CALCULATION

REQUIRED SEDIMENT STORAGE = 518 C.Y.

AVAILABLE STORAGE IN BASIN = 7,741 C.Y.

IS THE AVAILABLE STORAGE GREATER THAN THE TOTAL REQUIRED STORAGE?
YES NO

CLEAN OUT ELEVATION = 16.53 FT
(ELEVATION CORRESPONDING TO 22 C.Y./AC * 3.58 AC DISTURBED)

IS THE LENGTH TO WIDTH RATIO 2:1 OR GREATER? **YES** NO

Cd-Hb CALCULATIONS

- Cd-Hb #1-4
1. CFS IN THE DITCH THAT CHECK DAM IS BEING USED IN: 2.12 CFS
 2. ABOVE 2.0 CFS: YES NO
 3. IF YES, LIST BMP BEING USED IN CONJUNCTION WITH CHECK DAMS: STORM OUTLET PROTECTION FOLLOWING DOWNSTREAM OUTLET STRUCTURE AND DISTURBED AREA STABILIZATION.

STORM OUTLET PROTECTION

STRUCTURE NO.	Do	Lo	W1	W2	d50	D	FLOW RATE (CFS)	VELOCITY (FPS)
ST #1	24"	15'	6'	25'	12"	20.0"	2.02	0.62
ST #2	24"	23'	6'	28'	12"	20.0"	5.50	1.65
ST #3	18"	15'	4.5'	20'	6"	20.0"	0.95	0.30
ST #4	18"	30'	4.5'	28'	12"	20.0"	6.66	2.79

Cd-S CALCULATIONS

- Cd-S #1-3
1. CFS IN THE DITCH THAT CHECK DAM IS BEING USED IN: 2.02 CFS
 2. ABOVE 2.0 CFS: YES NO
 3. IF YES, LIST BMP BEING USED IN CONJUNCTION WITH CHECK DAMS: STORM DRAIN OUTLET PROTECTION

- Cd-S #4
1. CFS IN THE DITCH THAT CHECK DAM IS BEING USED IN: 5.50 CFS
 2. ABOVE 2.0 CFS: YES NO
 3. IF YES, LIST BMP BEING USED IN CONJUNCTION WITH CHECK DAMS: STORM DRAIN OUTLET PROTECTION

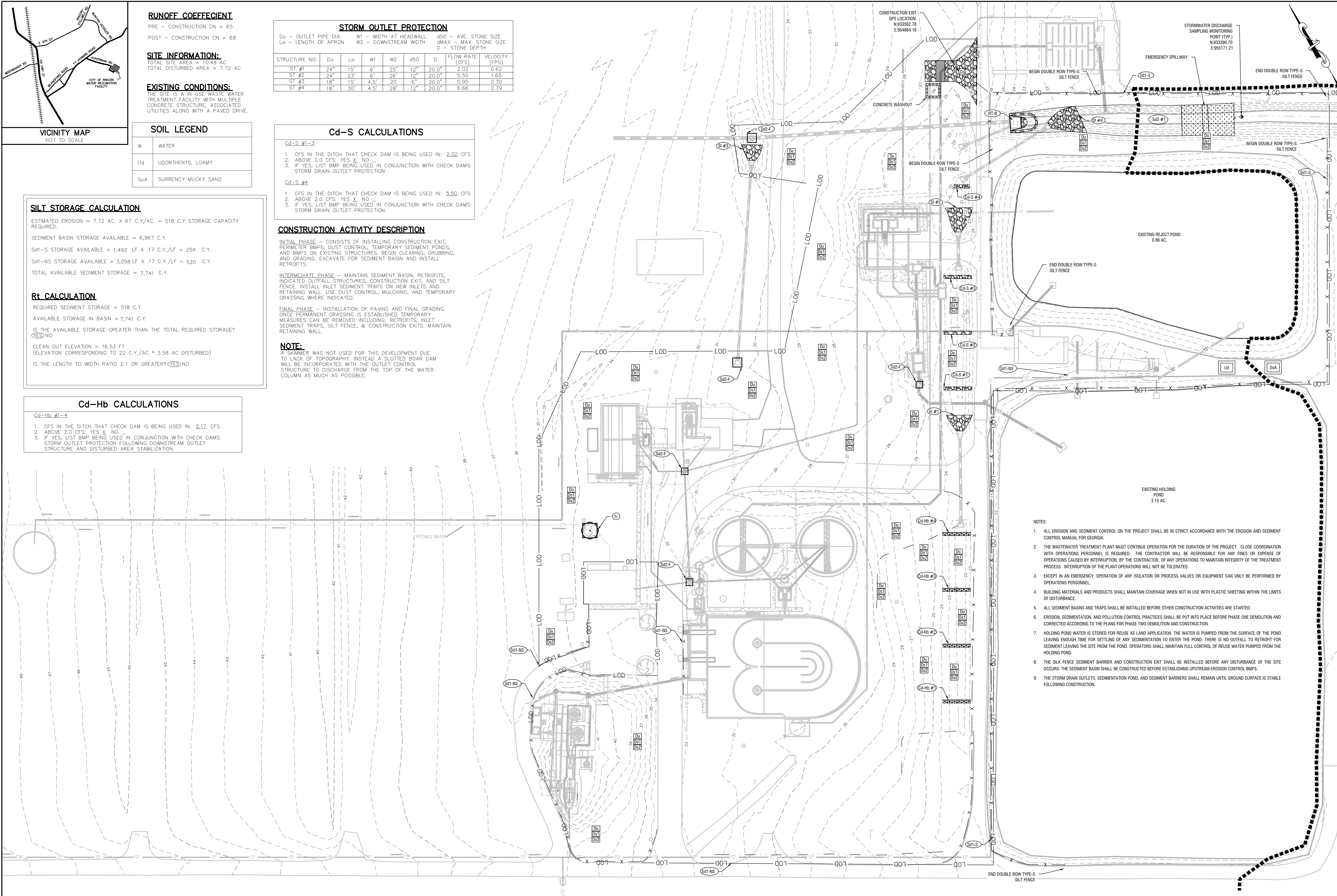
CONSTRUCTION ACTIVITY DESCRIPTION

INITIAL PHASE - CONSISTS OF INSTALLING CONSTRUCTION EXIT, PERIMETER BMPs, DUST CONTROL, TEMPORARY SEDIMENT PONDS, AND BMPs ON EXISTING STRUCTURES. BEGIN CLEARING, GRUBBING, AND GRADING. EXCAVATE FOR SEDIMENT BASIN AND INSTALL RETROFITS.

INTERMEDIATE PHASE - MAINTAIN SEDIMENT BASIN, RETROFITS, INDICATED OUTFALL STRUCTURES, CONSTRUCTION EXIT, AND SILT FENCE. INSTALL INLET SEDIMENT TRAPS ON NEW INLETS AND RETAINING WALL. USE DUST CONTROL, MULCHING, AND TEMPORARY GRASSING WHERE INDICATED.

FINAL PHASE - INSTALLATION OF PAVING AND FINAL GRADING. ONCE PERMANENT GRASSING IS ESTABLISHED TEMPORARY MEASURES CAN BE REMOVED INCLUDING: RETROFITS, INLET SEDIMENT TRAPS, SILT FENCE, & CONSTRUCTION EXITS. MAINTAIN RETAINING WALL.

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

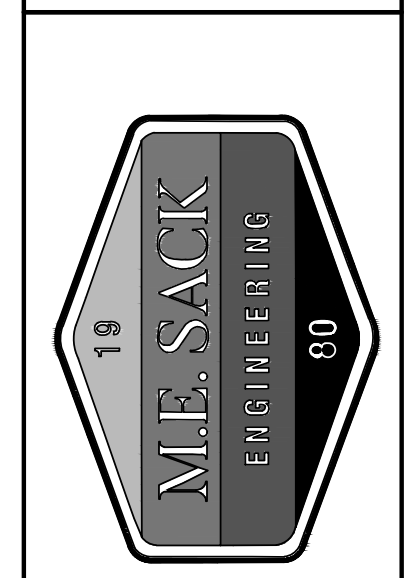
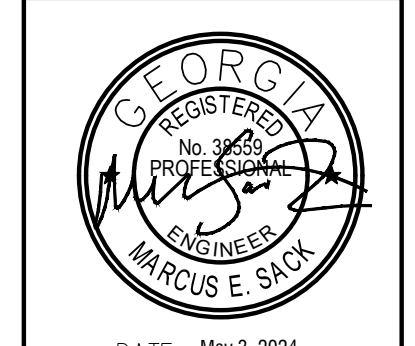


- NOTES:**
1. ALL EROSION AND SEDIMENT CONTROL ON THE PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL MANUAL FOR GEORGIA.
 2. THE WASTEWATER TREATMENT PLANT MUST CONTINUE OPERATION FOR THE DURATION OF THE PROJECT. CLOSE COORDINATION WITH OPERATIONS PERSONNEL IS REQUIRED. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES OR EXPENSE OF OPERATIONS CAUSED BY INTERRUPTION, BY THE CONTRACTOR, OF ANY OPERATIONS TO MAINTAIN INTEGRITY OF THE TREATMENT PROCESS. INTERRUPTION OF THE PLANT OPERATIONS WILL NOT BE TOLERATED.
 3. EXCEPT IN AN EMERGENCY, OPERATION OF ANY ISOLATION OR PROCESS VALVES OR EQUIPMENT CAN ONLY BE PERFORMED BY OPERATIONS PERSONNEL.
 4. BUILDING MATERIALS AND PRODUCTS SHALL MAINTAIN COVERAGE WHEN NOT IN USE WITH PLASTIC SHEETING WITHIN THE LIMITS OF DISTURBANCE.
 5. ALL SEDIMENT BASINS AND TRAPS SHALL BE INSTALLED BEFORE OTHER CONSTRUCTION ACTIVITIES ARE STARTED.
 6. EROSION, SEDIMENTATION, AND POLLUTION CONTROL PRACTICES SHALL BE PUT INTO PLACE BEFORE PHASE ONE DEMOLITION AND CORRECTED ACCORDING TO THE PLANS FOR PHASE TWO DEMOLITION AND CONSTRUCTION.
 7. HOLDING POND WATER IS STORED FOR REUSE AS LAND APPLICATION. THE WATER IS PUMPED FROM THE SURFACE OF THE POND LEAVING ENOUGH TIME FOR SETTLING OF ANY SEDIMENTATION TO ENTER THE POND. THERE IS NO OUTFALL TO RETROFIT FOR SEDIMENT LEAVING THE SITE FROM THE POND. OPERATORS SHALL MAINTAIN FULL CONTROL OF REUSE WATER PUMPED FROM THE HOLDING POND.
 8. THE SILK FENCE SEDIMENT BARRIER AND CONSTRUCTION EXIT SHALL BE INSTALLED BEFORE ANY DISTURBANCE OF THE SITE OCCURS. THE SEDIMENT BASIN SHALL BE CONSTRUCTED BEFORE ESTABLISHING UPSTREAM EROSION CONTROL BMPs.
 9. THE STORM DRAIN OUTLETS, SEDIMENTATION POND, AND SEDIMENT BARRIERS SHALL REMAIN UNTIL GROUND SURFACE IS STABLE FOLLOWING CONSTRUCTION.

REVISIONS:

1	MCC BUILDING
2	MCC BUILDING
3	GSWCC REVISION
4	EPD REVISION

DESIGN PROFESSIONAL:
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EXPIRES: 06/14/2026
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WWTP Expansion

INITIAL ESPC PLAN

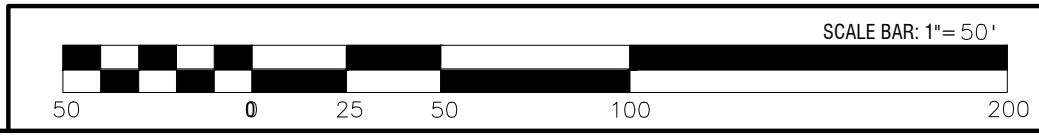
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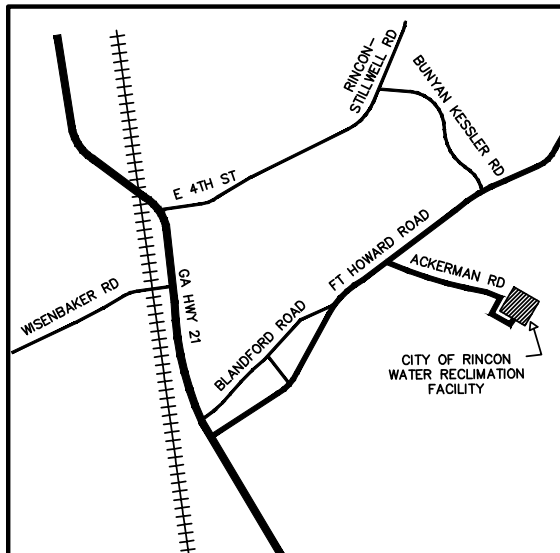
FILE NO: 2020-10 PRJ
PLAT DATE: May 3, 2024

DESIGN PROFESSIONAL: MARCUS E. SACK, P.E., M.E. SACK ENGINEERING, MARCUS@MESACK.COM, GSWCC LEVEL II, CERTIFICATION # 70248, EXPIRES: 06-14-23

PRIMARY PERMITEE: CITY OF RINCON, CONTACT: TOMMY KEE, 302 S COLUMBIA AVENUE, RINCON, GA 31326, (912) 826-5745, INFO@CITYOFRINCON.COM

24-HOUR CONTACT: TOMMY KEE, 302 S COLUMBIA AVENUE, RINCON, GA 31326, (912) 826-5745, TKEE@CITYOFRINCON.COM





VICINITY MAP
NOT TO SCALE

RUNOFF COEFFICIENT

PRE - CONSTRUCTION CN = 65
POST - CONSTRUCTION CN = 68

SITE INFORMATION:

TOTAL SITE AREA = 10.49 AC
TOTAL DISTURBED AREA = 7.72 AC

EXISTING CONDITIONS:

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

SOIL LEGEND

W	WATER
Ud	UDORTHERTS, LOAMY
SuA	SURRENCY MUCKY SAND

SILT STORAGE CALCULATION

ESTIMATED EROSION = 7.72 AC. X 67 C.Y./AC. = 518 C.Y. STORAGE CAPACITY REQUIRED.

SEDIMENT BASIN STORAGE AVAILABLE = 6,967 C.Y.

Sd1-S STORAGE AVAILABLE = 1,492 LF X .17 C.Y./LF = 254 C.Y.

Sd1-NS STORAGE AVAILABLE = 3,058 LF X .17 C.Y./LF = 520 C.Y.

TOTAL AVAILABLE SEDIMENT STORAGE = 7,741 C.Y.

Rt CALCULATION

REQUIRED SEDIMENT STORAGE = 518 C.Y.

AVAILABLE STORAGE IN BASIN = 7,741 C.Y.

IS THE AVAILABLE STORAGE GREATER THAN THE TOTAL REQUIRED STORAGE? **YES** NO

CLEAN OUT ELEVATION = 16.53 FT (ELEVATION CORRESPONDING TO 22 C.Y./AC * 3.58 AC DISTURBED)

IS THE LENGTH TO WIDTH RATIO 2:1 OR GREATER? **YES** NO

STORM OUTLET PROTECTION

D_o - OUTLET PIPE DIA. W₁ - WIDTH AT HEADWALL g₅₀ - AVE. STONE SIZE
L_a - LENGTH OF APRON W₂ - DOWNSTREAM WIDTH g_{MAX} - MAX. STONE SIZE
D - STONE DEPTH

STRUCTURE NO.	D _o	L _a	W ₁	W ₂	d ₅₀	D	FLOW RATE (CFS)	VELOCITY (FPS)	
ST #1	24"	15'	6'	25'	12"	20.0"	3.25	1.03	
ST #2	24"	23'	6'	28'	12"	20.0"	5.81	1.85	
ST #3	18"	15'	4.5'	20'	6"	20.0"	0.68	0.38	
ST #4	18"	18'	30'	4.5'	28'	12"	20.0"	7.14	4.04

Cd-S CALCULATIONS

Cd-S #1-3

1. CFS IN THE DITCH THAT CHECK DAM IS BEING USED IN: 3.25 CFS
2. ABOVE 2.0 CFS: YES NO
3. IF YES, LIST BMP BEING USED IN CONJUNCTION WITH CHECK DAMS: STORM DRAIN OUTLET PROTECTION

Cd-S #4

1. CFS IN THE DITCH THAT CHECK DAM IS BEING USED IN: 5.81 CFS
2. ABOVE 2.0 CFS: YES NO
3. IF YES, LIST BMP BEING USED IN CONJUNCTION WITH CHECK DAMS: STORM DRAIN OUTLET PROTECTION

CONSTRUCTION ACTIVITY DESCRIPTION

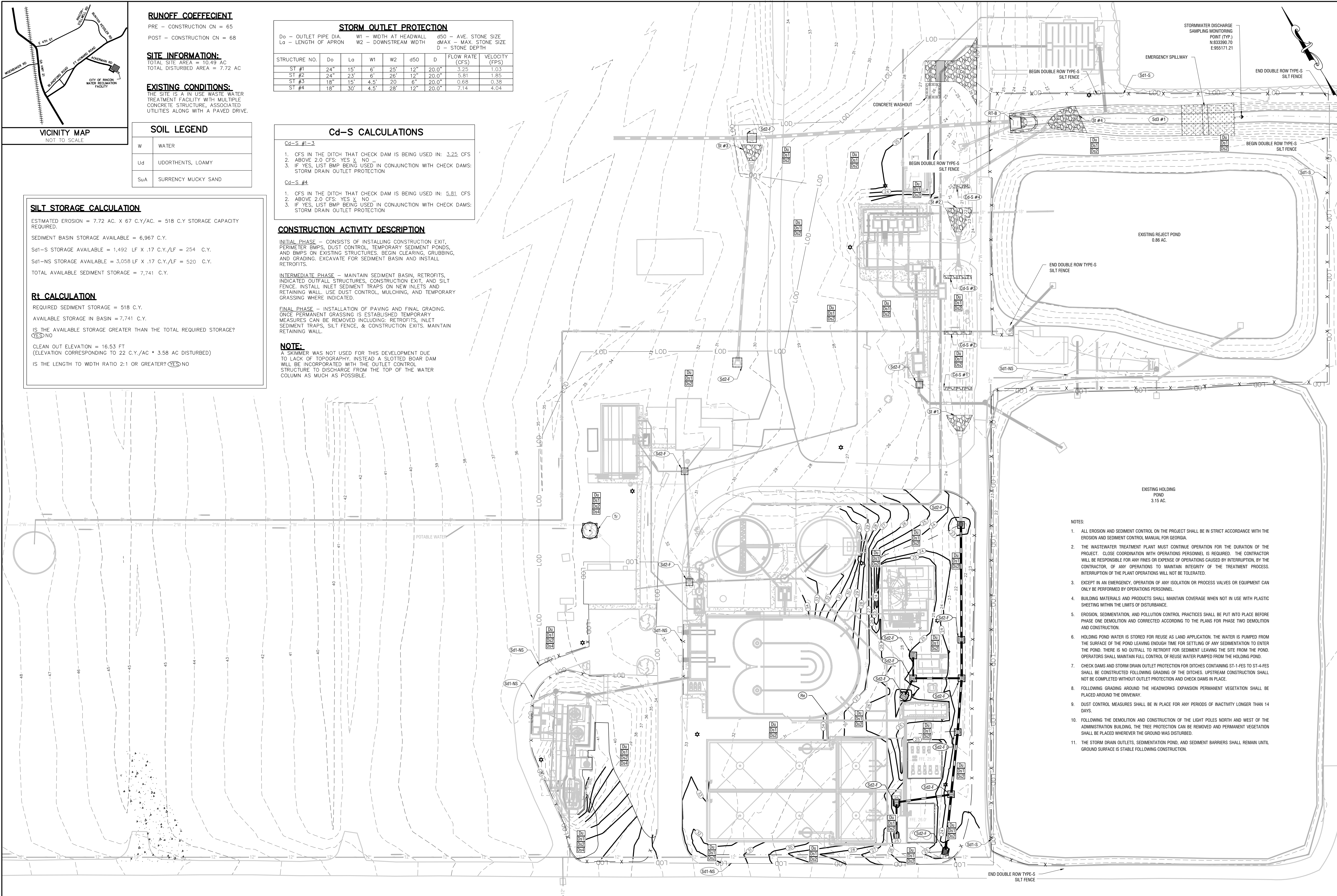
INITIAL PHASE - CONSISTS OF INSTALLING CONSTRUCTION EXIT, PERIMETER BMPs, DUST CONTROL, TEMPORARY SEDIMENT PONDS, AND BMPs ON EXISTING STRUCTURES. BEGIN CLEARING, GRUBBING, AND GRADING. EXCAVATE FOR SEDIMENT BASIN AND INSTALL RETROFITS.

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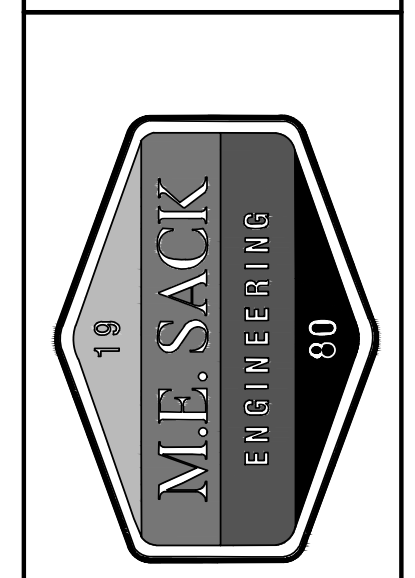
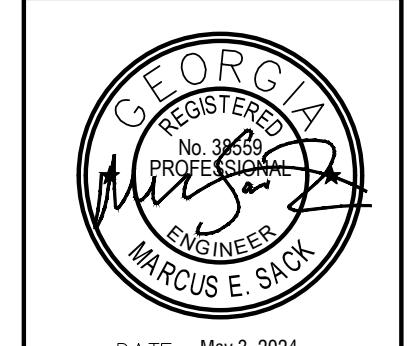


- NOTES:
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 7. CHECK DAMS AND STORM DRAIN OUTLET PROTECTION FOR DITCHES CONTAINING ST-1-FES TO ST-4-FES SHALL BE CONSTRUCTED FOLLOWING GRADING OF THE DITCHES. UPSTREAM CONSTRUCTION SHALL NOT BE COMPLETED WITHOUT OUTLET PROTECTION AND CHECK DAMS IN PLACE.
 8. FOLLOWING GRADING AROUND THE HEADWORKS EXPANSION PERMANENT VEGETATION SHALL BE PLACED AROUND THE DRIVEWAY.
 9. DUST CONTROL MEASURES SHALL BE IN PLACE FOR ANY PERIODS OF INACTIVITY LONGER THAN 14 DAYS.
 10. FOLLOWING THE DEMOLITION AND CONSTRUCTION OF THE LIGHT POLES NORTH AND WEST OF THE ADMINISTRATION BUILDING, THE TREE PROTECTION CAN BE REMOVED AND PERMANENT VEGETATION SHALL BE PLACED WHEREVER THE GROUND WAS DISTURBED.
 11. THE STORM DRAIN OUTLETS, SEDIMENTATION POND, AND SEDIMENT BARRIERS SHALL REMAIN UNTIL GROUND SURFACE IS STABLE FOLLOWING CONSTRUCTION.

REVISIONS:

1	MCC BUILDING
2	MCC BUILDING
3	GSWCC REVISION
4	EPD REVISION

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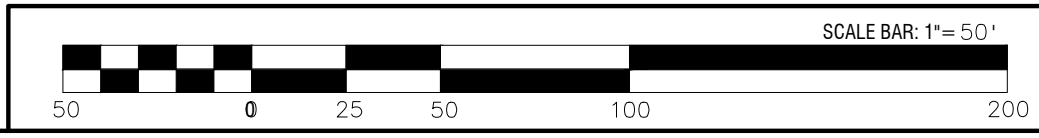
INTERMEDIATE
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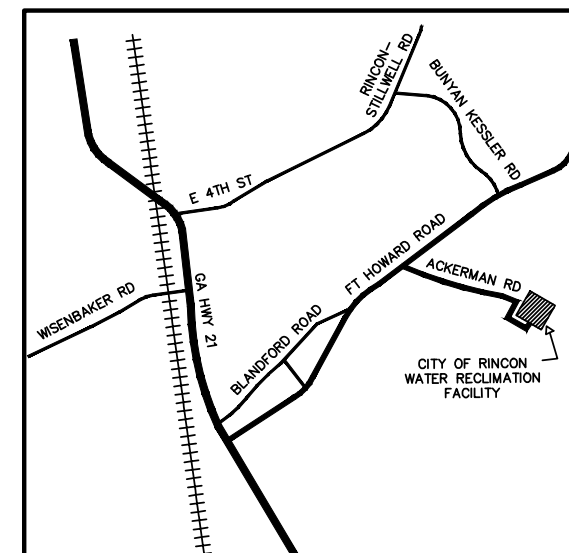
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FILE NO: 2020-10 PRJ
PLOT DATE: May 3, 2024



RUNOFF COEFFICIENT
 PRE - CONSTRUCTION CN = 65
 POST - CONSTRUCTION CN = 68

SITE INFORMATION:
 TOTAL SITE AREA = 10.49 AC
 TOTAL DISTURBED AREA = 7.72 AC

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

SOIL LEGEND

W	WATER
Ud	UDORTHERTS, LOAMY
SuA	SURRENCY MUCKY SAND

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 Sd1-S STORAGE AVAILABLE = 3,158 LF X .17 C.Y./LF = 537 C.Y.
 Sd1-NS STORAGE AVAILABLE = 17 X .48 C.Y./LF = 8.16 C.Y.
 TOTAL AVAILABLE SEDIMENT STORAGE = 7,513 C.Y.

Rt CALCULATION

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 AVAILABLE STORAGE IN BASIN = 7,513 C.Y.
 IS THE AVAILABLE STORAGE GREATER THAN THE TOTAL REQUIRED STORAGE? **YES**
 CLEAN OUT ELEVATION = 16.53 FT (ELEVATION CORRESPONDING TO 22 C.Y./AC * 3.58 AC DISTURBED)
 IS THE LENGTH TO WIDTH RATIO 2:1 OR GREATER? **YES**

STORM OUTLET PROTECTION

STRUCTURE NO.	Do	Lo	W1	W2	d50	D	FLOW RATE (CFS)	VELOCITY (FPS)
ST #1	24"	15'	6'	25'	12"	20.0"	3.25	1.03
ST #2	24"	23'	6'	28'	12"	20.0"	5.81	1.85
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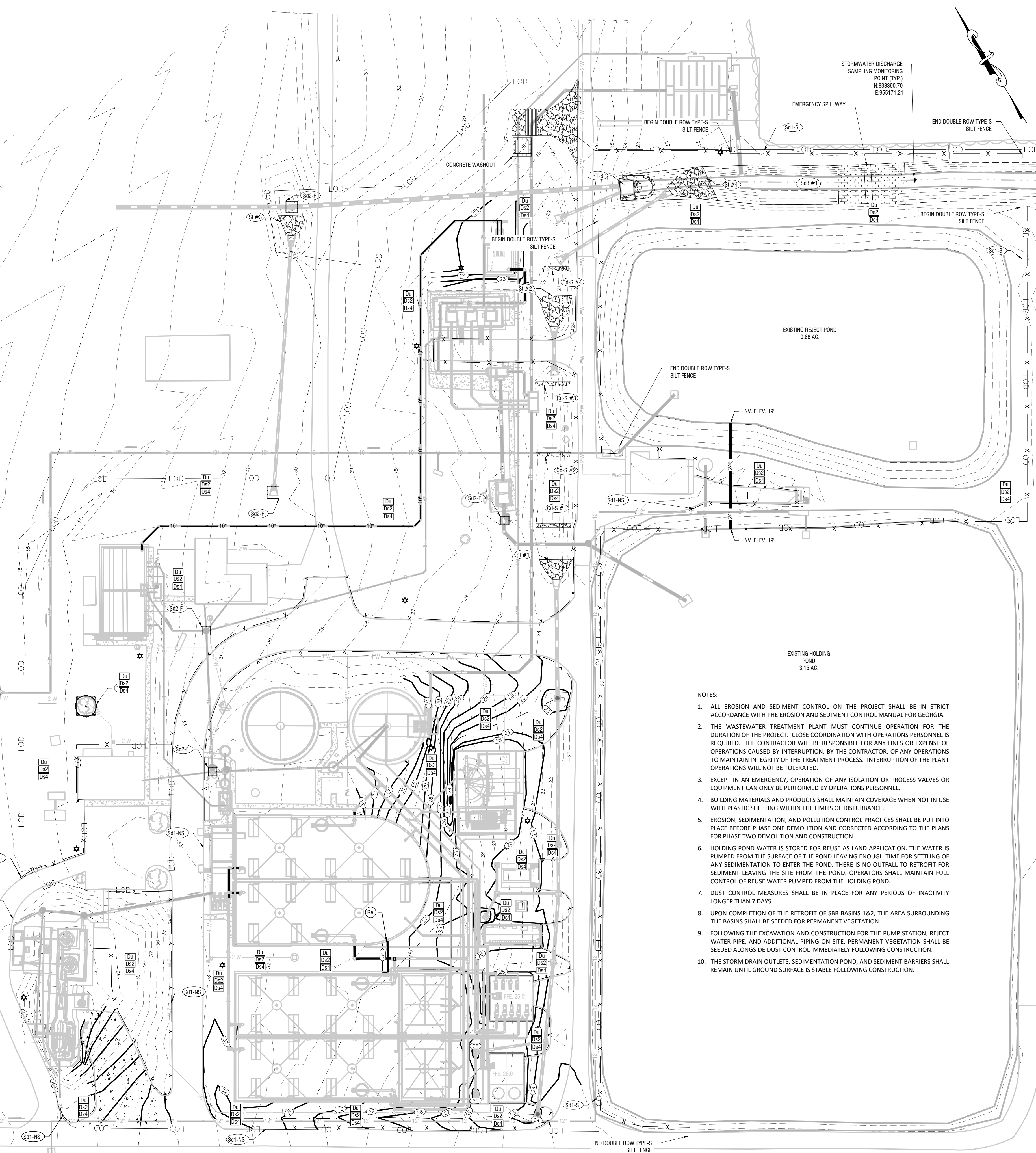
Cd-S CALCULATIONS

Cd-S #1-3
 1. CFS IN THE DITCH THAT CHECK DAM IS BEING USED IN: 3.25 CFS
 2. ABOVE 2.0 CFS: YES X NO
 3. IF YES, LIST BMP BEING USED IN CONJUNCTION WITH CHECK DAMS: STORM DRAIN OUTLET PROTECTION

Cd-S #4
 1. CFS IN THE DITCH THAT CHECK DAM IS BEING USED IN: 5.81 CFS
 2. ABOVE 2.0 CFS: YES X NO
 3. IF YES, LIST BMP BEING USED IN CONJUNCTION WITH CHECK DAMS: STORM DRAIN OUTLET PROTECTION

CONSTRUCTION ACTIVITY DESCRIPTION

INITIAL PHASE - CONSISTS OF INSTALLING CONSTRUCTION EXIT, PERIMETER BMPs, DUST CONTROL, TEMPORARY SEDIMENT PONDS, AND BMPs ON EXISTING STRUCTURES. BEGIN CLEARING, GRUBBING, AND GRADING. EXCAVATE FOR SEDIMENT BASIN AND INSTALL RETROFITS.
INTERMEDIATE PHASE - MAINTAIN SEDIMENT BASIN, RETROFITS, INDICATED OUTFALL STRUCTURES, CONSTRUCTION EXIT, AND SILT FENCE. INSTALL INLET SEDIMENT TRAPS ON NEW INLETS AND RETAINING WALL. USE DUST CONTROL, MULCHING, AND TEMPORARY GRASSING WHERE INDICATED.
FINAL PHASE - INSTALLATION OF PAVING AND FINAL GRADING. ONCE PERMANENT GRASSING IS ESTABLISHED TEMPORARY MEASURES CAN BE REMOVED INCLUDING: RETROFITS, INLET SEDIMENT TRAPS, SILT FENCE, & CONSTRUCTION EXITS. MAINTAIN RETAINING WALL.
NOTE:
 A SKIMMER WAS NOT USED FOR THIS DEVELOPMENT DUE TO LACK OF TOPOGRAPHY. INSTEAD A SLOTTED BOAR DAM WILL BE INCORPORATED WITH THE OUTLET CONTROL STRUCTURE TO DISCHARGE FROM THE TOP OF THE WATER COLUMN AS MUCH AS POSSIBLE.

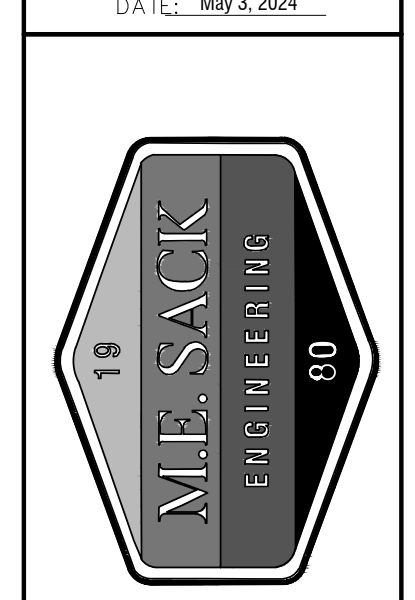
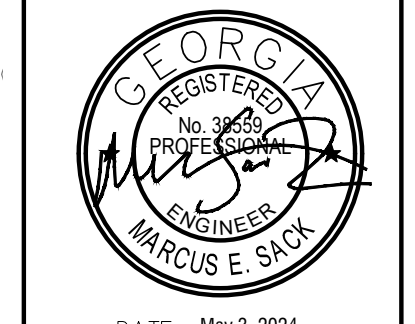


- NOTES:**
- ALL EROSION AND SEDIMENT CONTROL ON THE PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL MANUAL FOR GEORGIA.
 - THE WASTEWATER TREATMENT PLANT MUST CONTINUE OPERATION FOR THE DURATION OF THE PROJECT. CLOSE COORDINATION WITH OPERATIONS PERSONNEL IS REQUIRED. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES OR EXPENSE OF OPERATIONS CAUSED BY INTERRUPTION, BY THE CONTRACTOR, OF ANY OPERATIONS TO MAINTAIN INTEGRITY OF THE TREATMENT PROCESS. INTERRUPTION OF THE PLANT OPERATIONS WILL NOT BE TOLERATED.
 - EXCEPT IN AN EMERGENCY, OPERATION OF ANY ISOLATION OR PROCESS VALVES OR EQUIPMENT CAN ONLY BE PERFORMED BY OPERATIONS PERSONNEL.
 - BUILDING MATERIALS AND PRODUCTS SHALL MAINTAIN COVERAGE WHEN NOT IN USE WITH PLASTIC SHEETING WITHIN THE LIMITS OF DISTURBANCE.
 - EROSION, SEDIMENTATION, AND POLLUTION CONTROL PRACTICES SHALL BE PUT INTO PLACE BEFORE PHASE ONE DEMOLITION AND CORRECTED ACCORDING TO THE PLANS FOR PHASE TWO DEMOLITION AND CONSTRUCTION.
 - HOLDING POND WATER IS STORED FOR REUSE AS LAND APPLICATION. THE WATER IS PUMPED FROM THE SURFACE OF THE POND LEAVING ENOUGH TIME FOR SETTLING OF ANY SEDIMENTATION TO ENTER THE POND. THERE IS NO OUTFALL TO RETROFIT FOR SEDIMENT LEAVING THE SITE FROM THE POND. OPERATORS SHALL MAINTAIN FULL CONTROL OF REUSE WATER PUMPED FROM THE HOLDING POND.
 - DUST CONTROL MEASURES SHALL BE IN PLACE FOR ANY PERIODS OF INACTIVITY LONGER THAN 7 DAYS.
 - UPON COMPLETION OF THE RETROFIT OF SBR BASINS 1&2, THE AREA SURROUNDING THE BASINS SHALL BE SEEDED FOR PERMANENT VEGETATION.
 - FOLLOWING THE EXCAVATION AND CONSTRUCTION FOR THE PUMP STATION, REJECT WATER PIPE, AND ADDITIONAL PIPING ON SITE, PERMANENT VEGETATION SHALL BE SEEDED ALONGSIDE DUST CONTROL IMMEDIATELY FOLLOWING CONSTRUCTION.
 - THE STORM DRAIN OUTLETS, SEDIMENTATION POND, AND SEDIMENT BARRIERS SHALL REMAIN UNTIL GROUND SURFACE IS STABLE FOLLOWING CONSTRUCTION.

REVISIONS:

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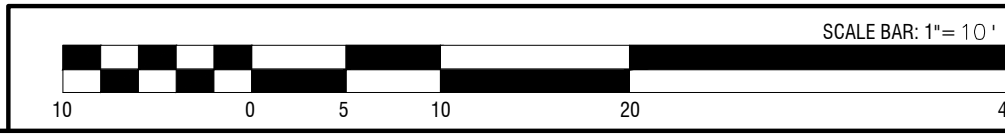
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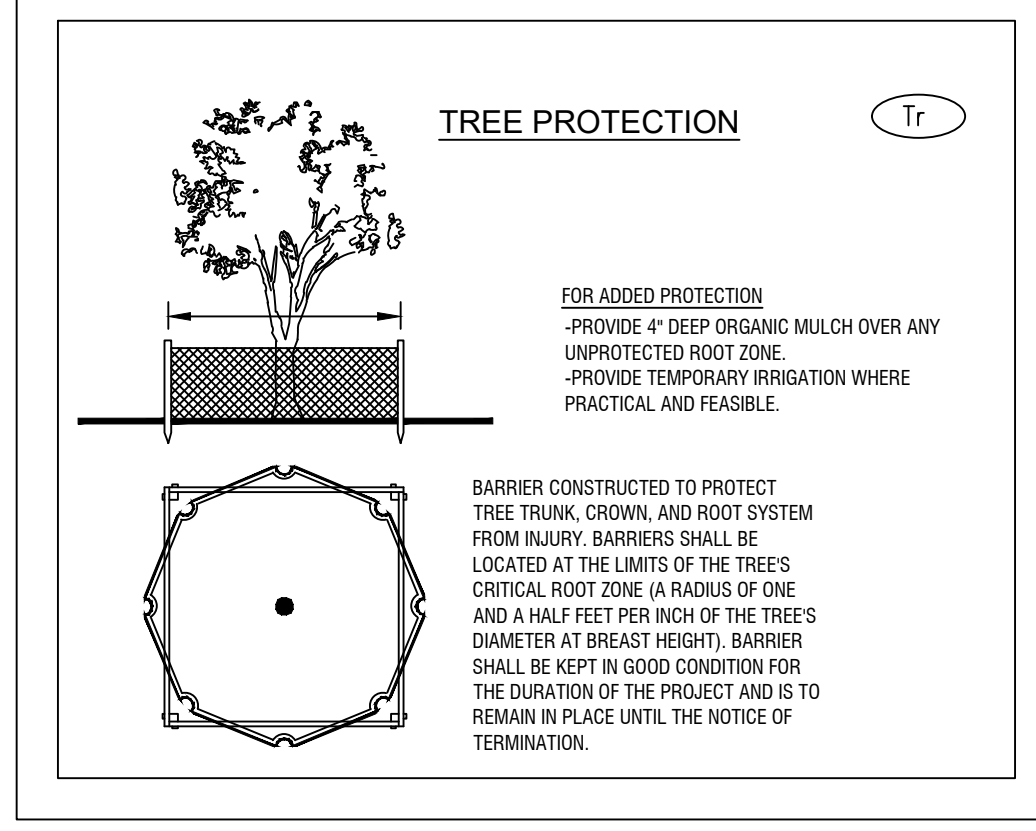
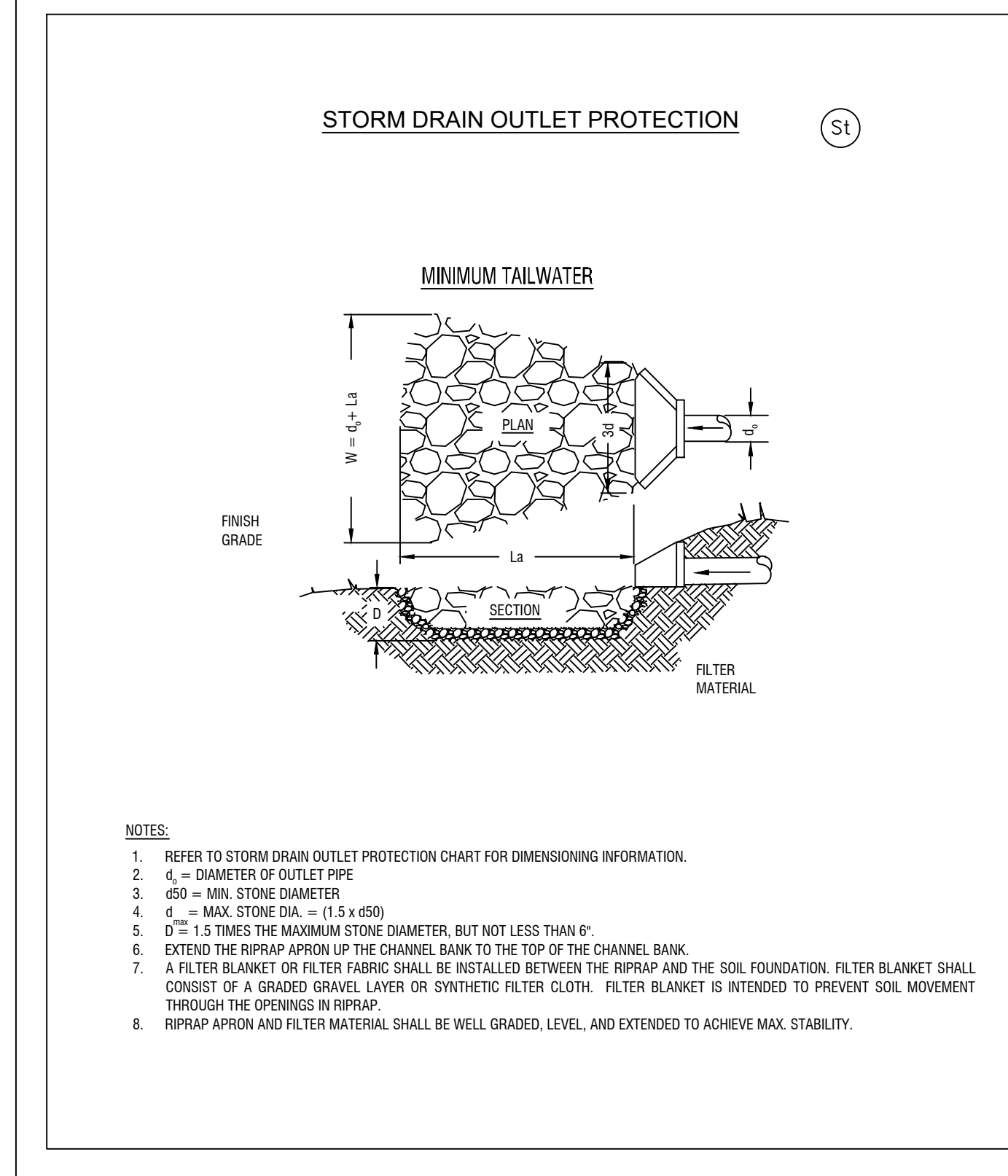
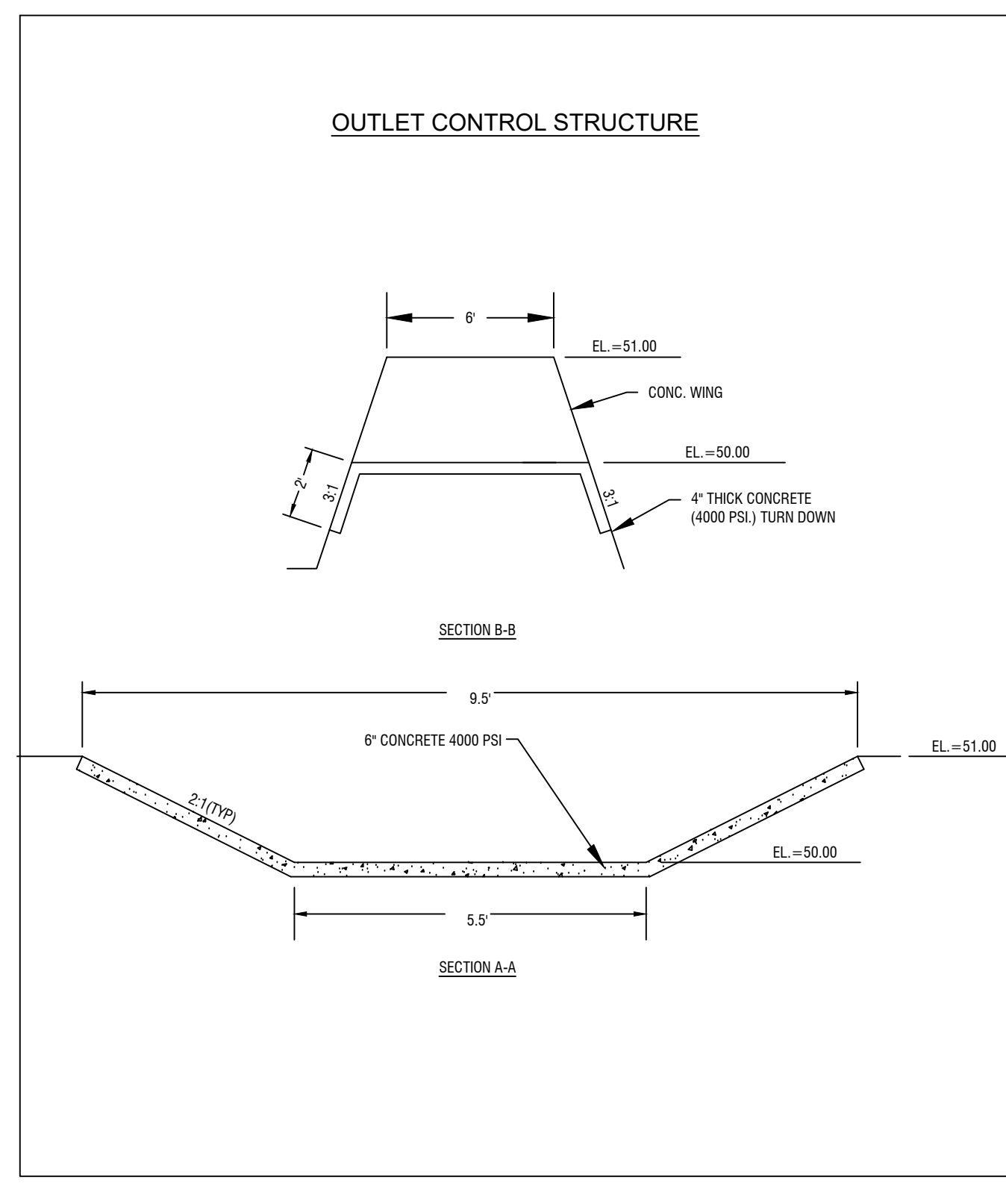
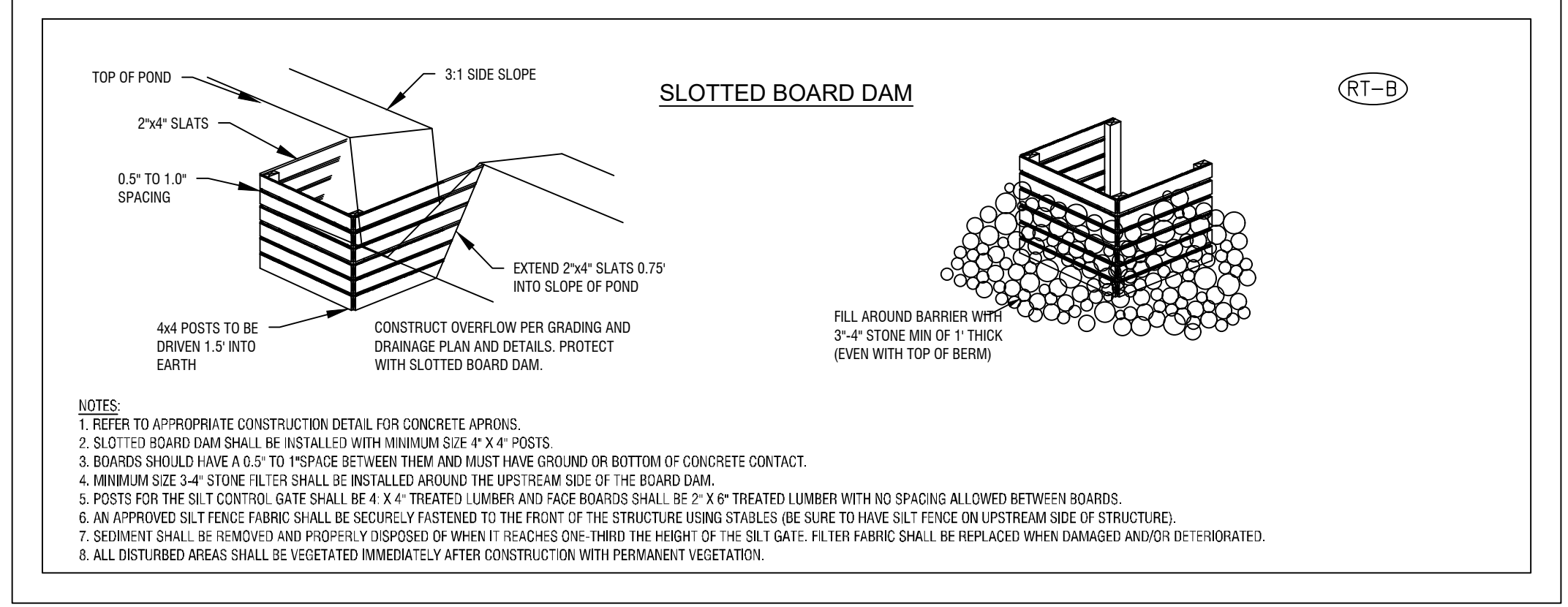
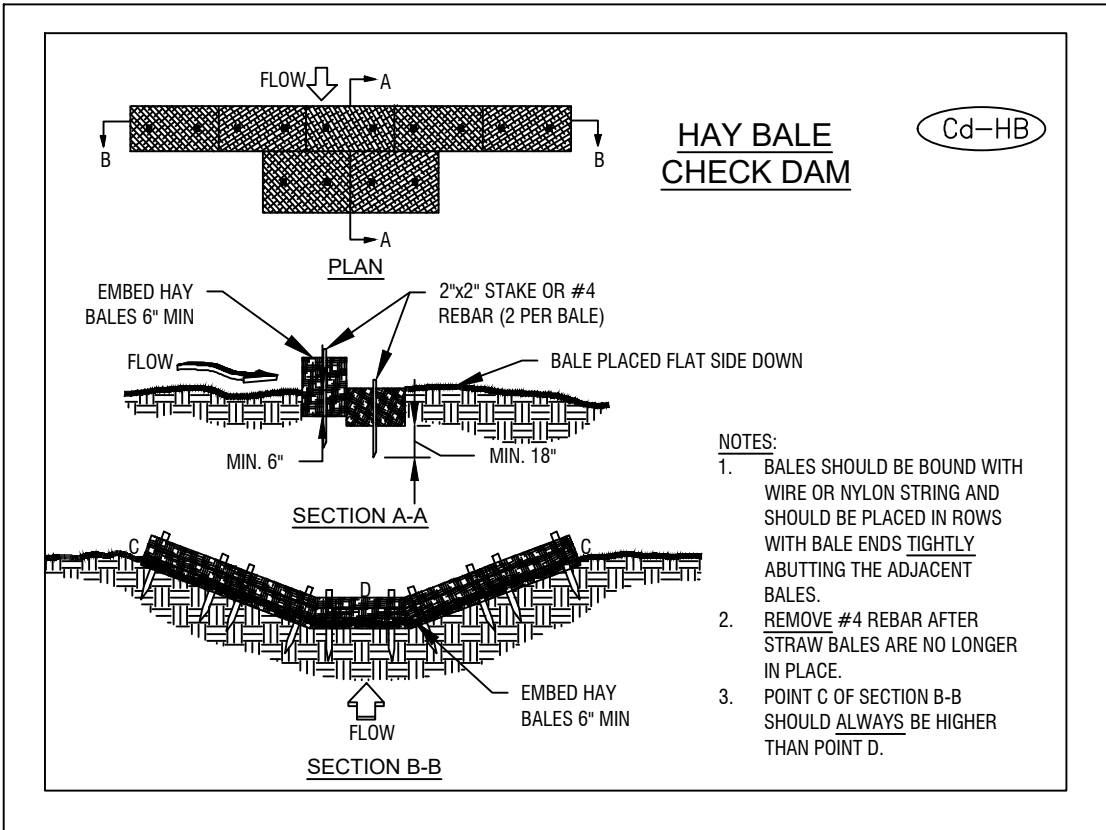
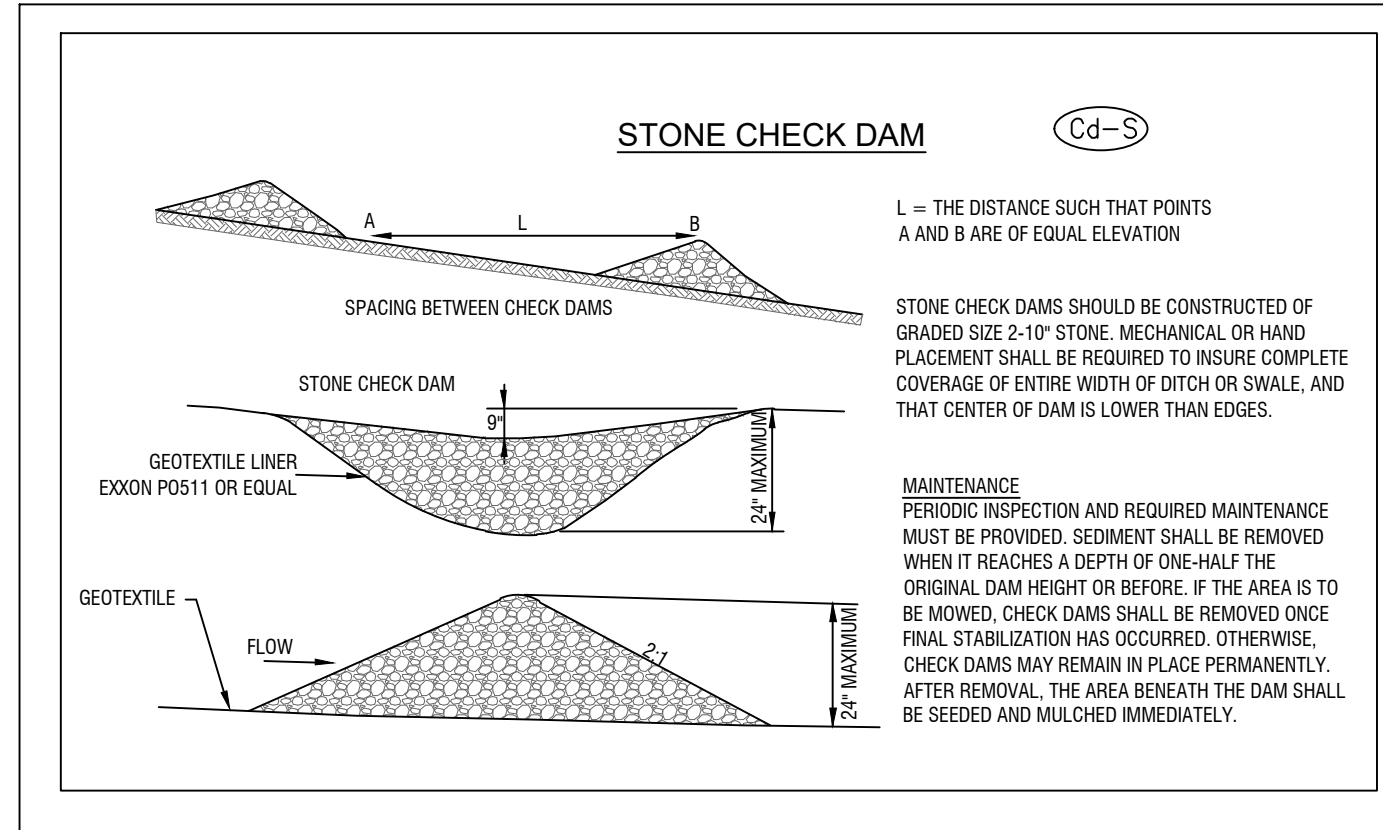
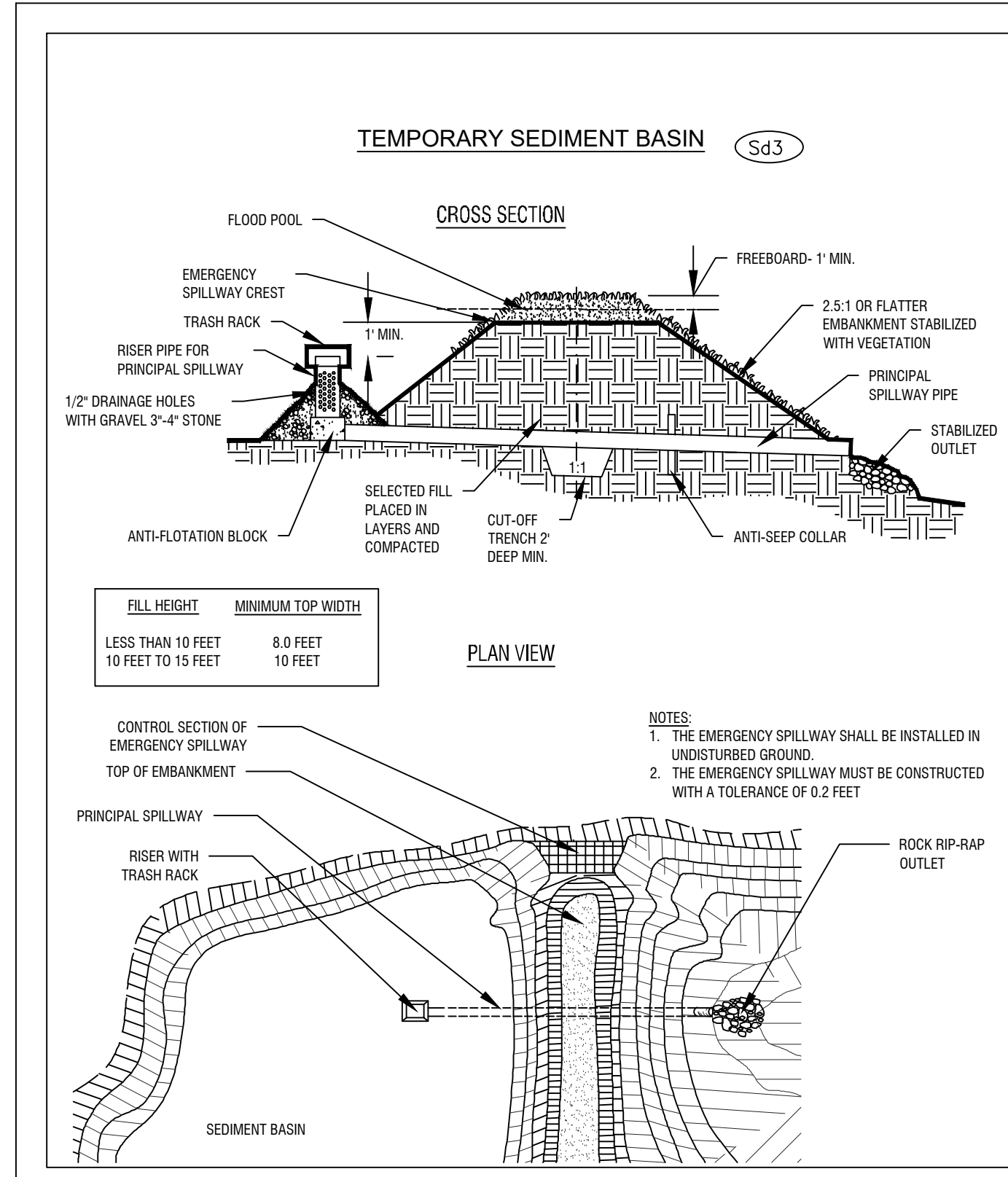
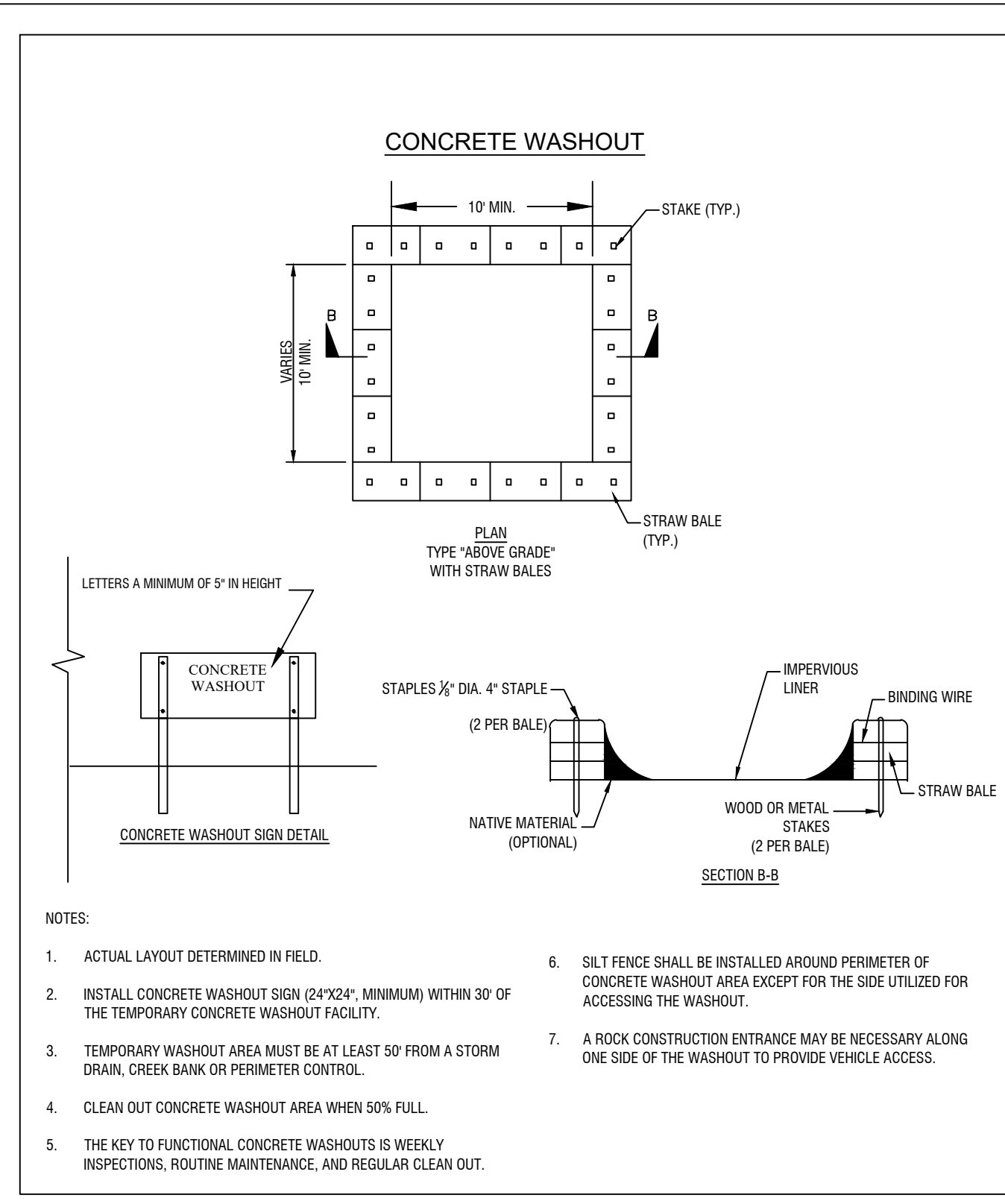
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WWTP Expansion
FINAL ESPC PLAN

C4

FILE NO: 2020-10 PRJ
PLAT DATE: May 3, 2024





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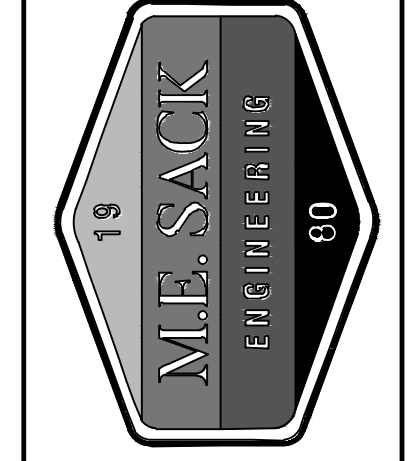
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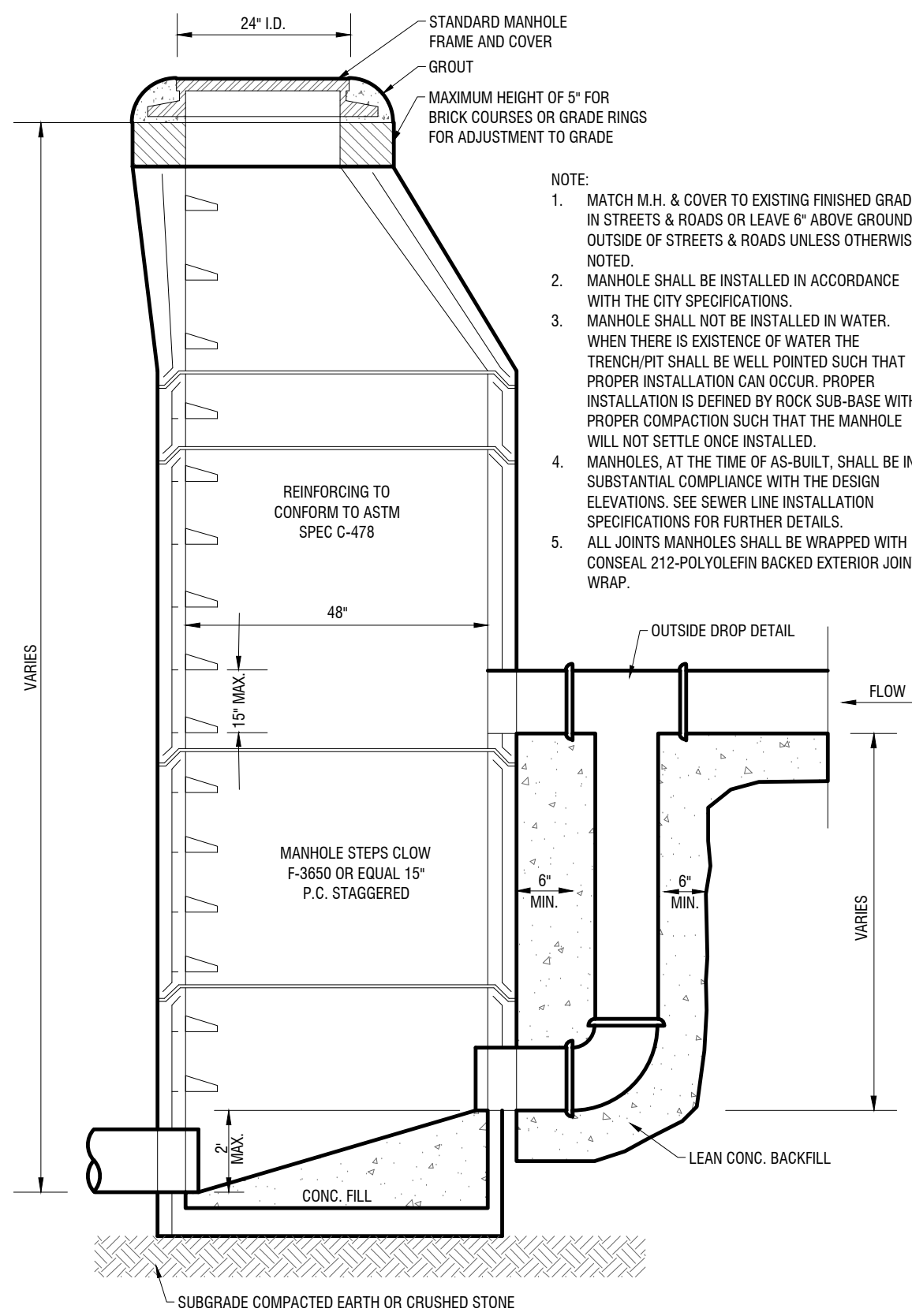
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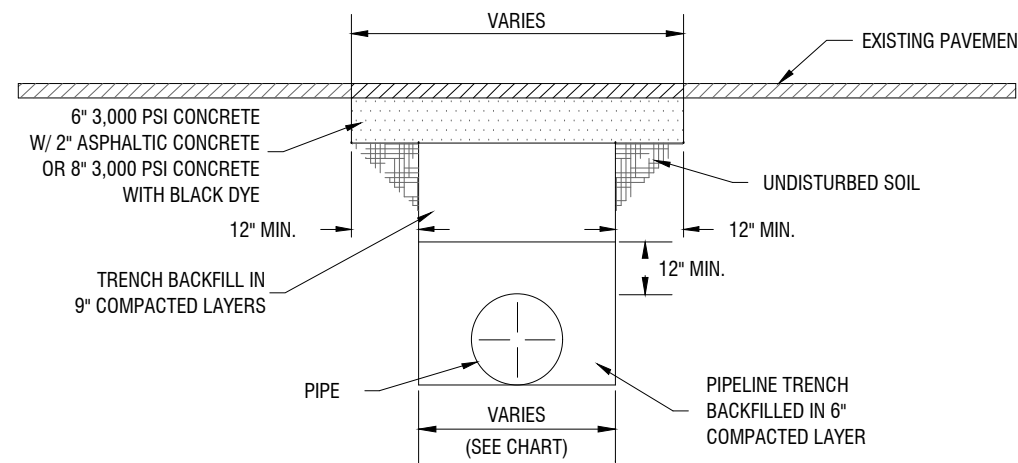
DETAILS

C7

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 PLOT DATE: May 3, 2024



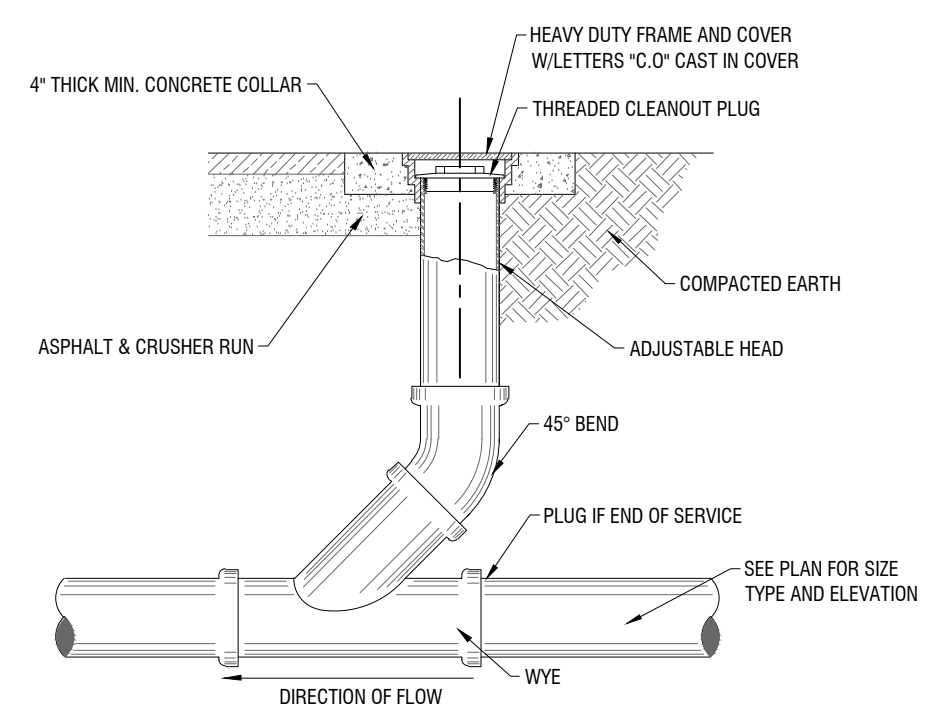
PRECAST CONCRETE MANHOLE
N.T.S.



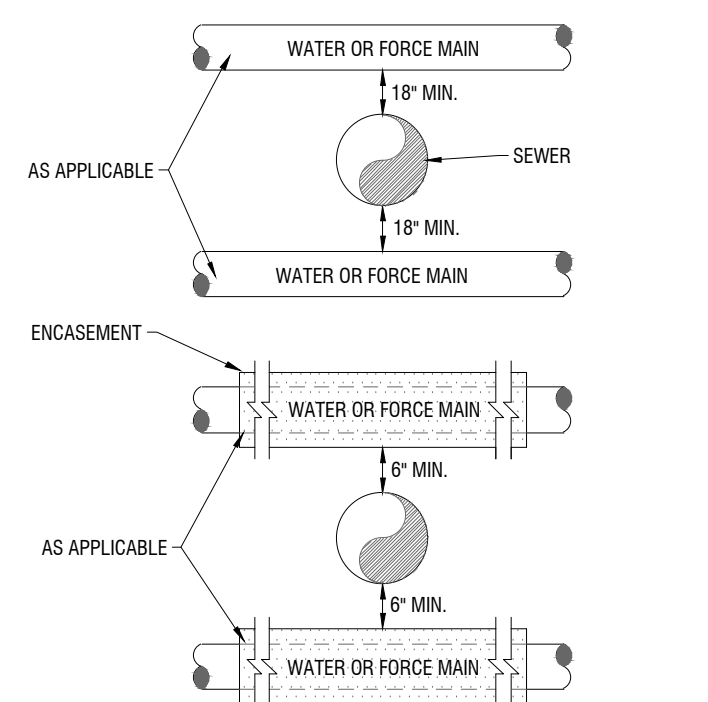
PIPE DIAMETER	MAXIMUM TRENCH WIDTH 0 - 6\"/>
6\"/>	
18\"/>	
24\"/>	
33\"/>	
48\"/>	

NOTE: MAXIMUM PAVEMENT WIDTH FOR CUT DEPTH OVER 6 FEET SHALL BE 8 FEET UNLESS NOTED OTHERWISE ON PLANS.

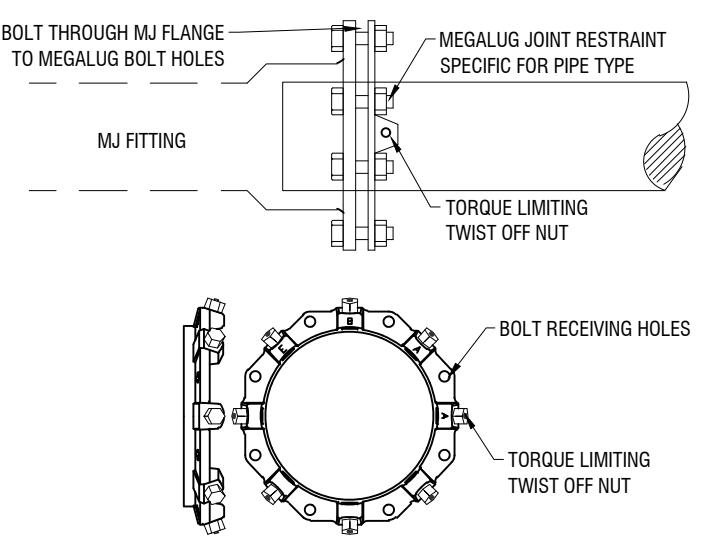
PAVEMENT REMOVAL & REPLACEMENT
N.T.S.



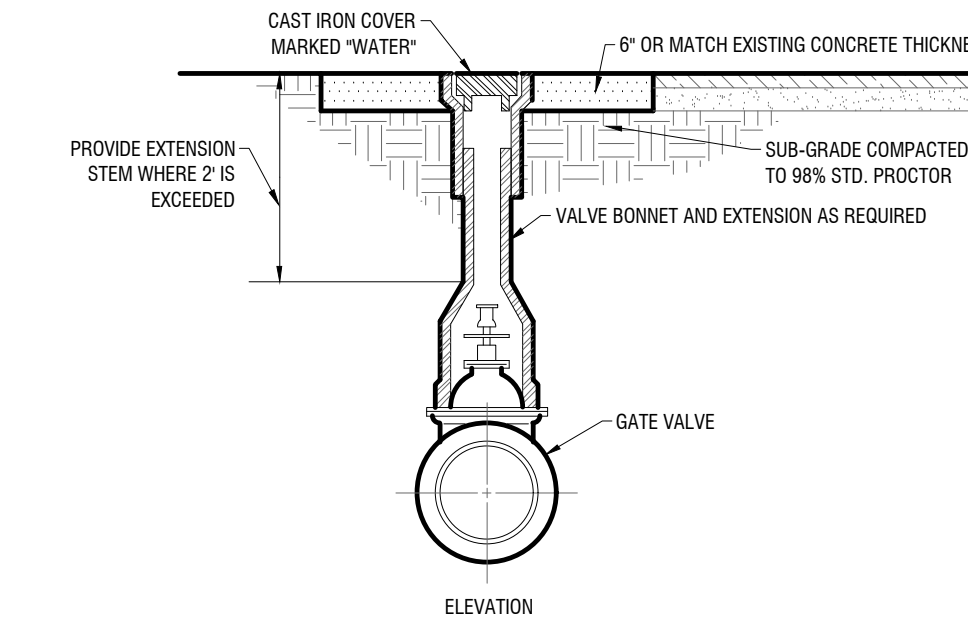
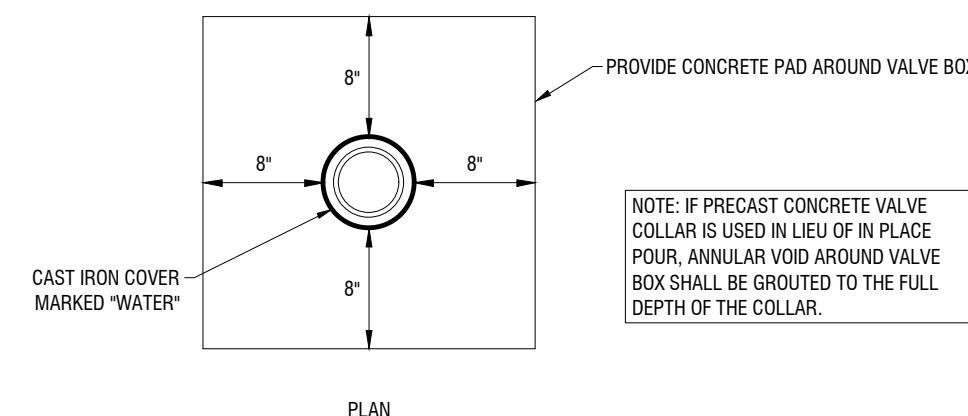
CLEANOUT DETAIL
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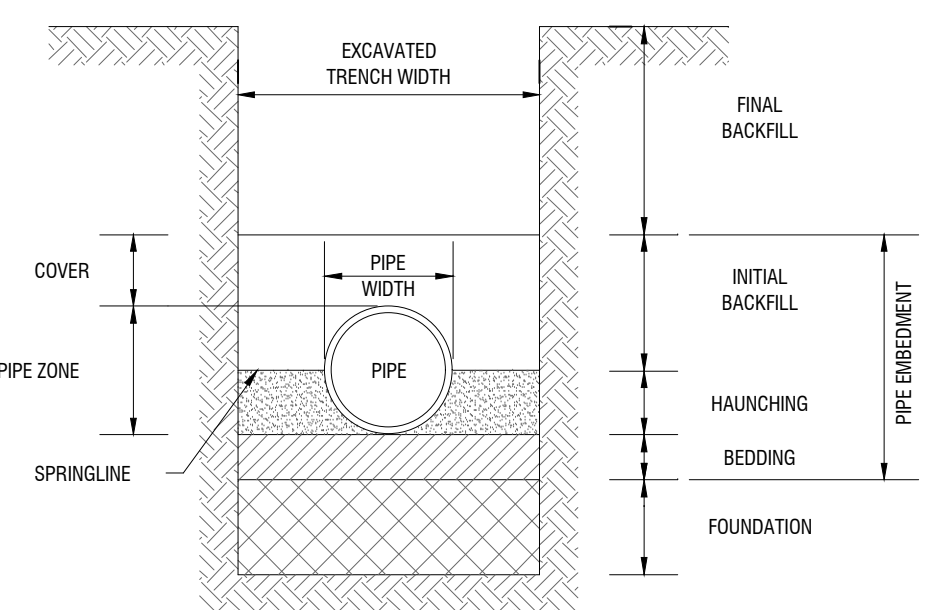
SEPERATION DETAIL
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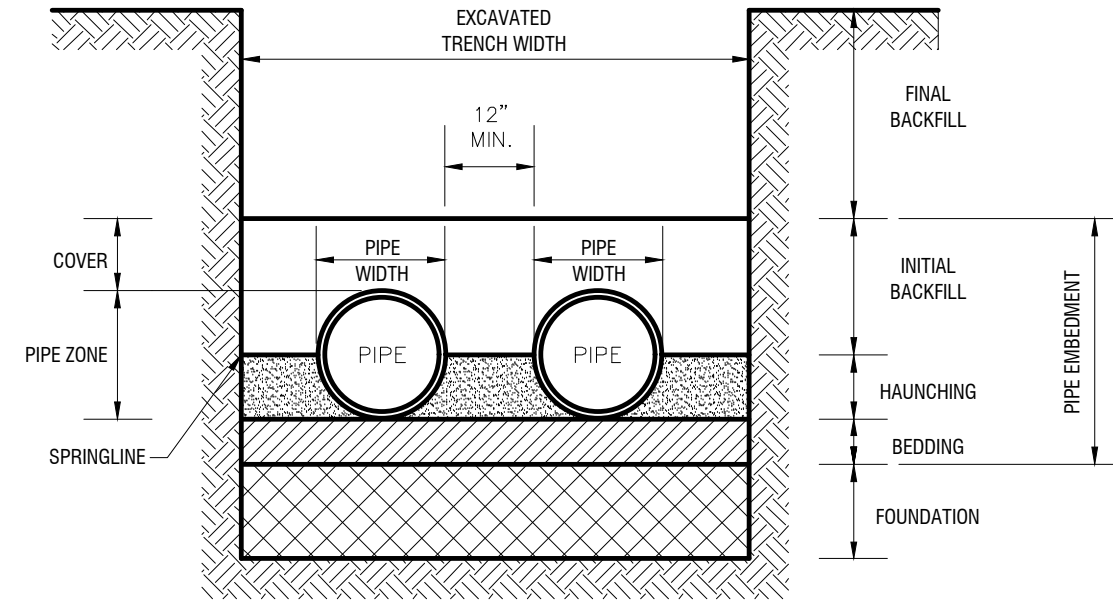
TYPICAL JOINT RESTRAINT DETAIL
N.T.S.



VALVE BOX DETAIL
N.T.S.



PIPE BEDDING DETAIL
N.T.S.

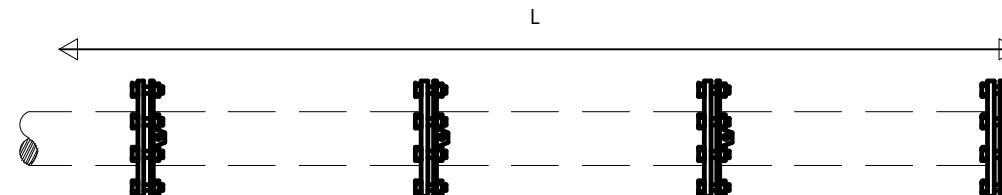


PARALLEL FORCEMAIN PIPE BEDDING DETAIL
N.T.S.

		DUCTILE IRON LINE					
TEE	U ₁	5'-10"	11'-20"	21'-35"	38'-50"	50'-75"	75'-100"
4X4	23	15	2	*	*	*	*
6X4	21	9	*	*	*	*	*
6X6	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

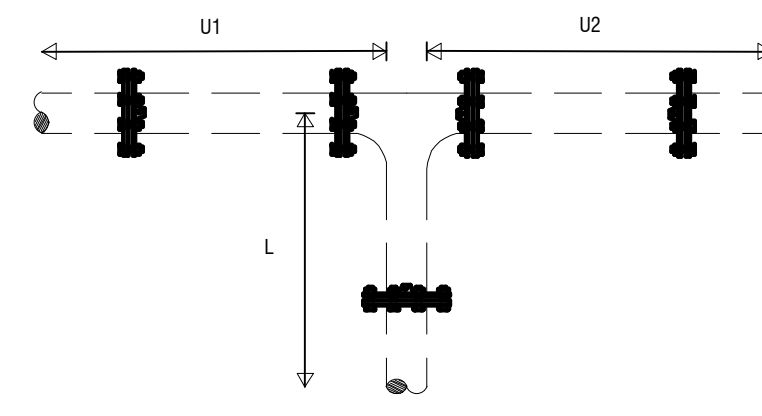
TEE RESTRAINT



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

NOTES:
1. LENGTH OF RESTRAINT SHOWN IS IN FEET.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.



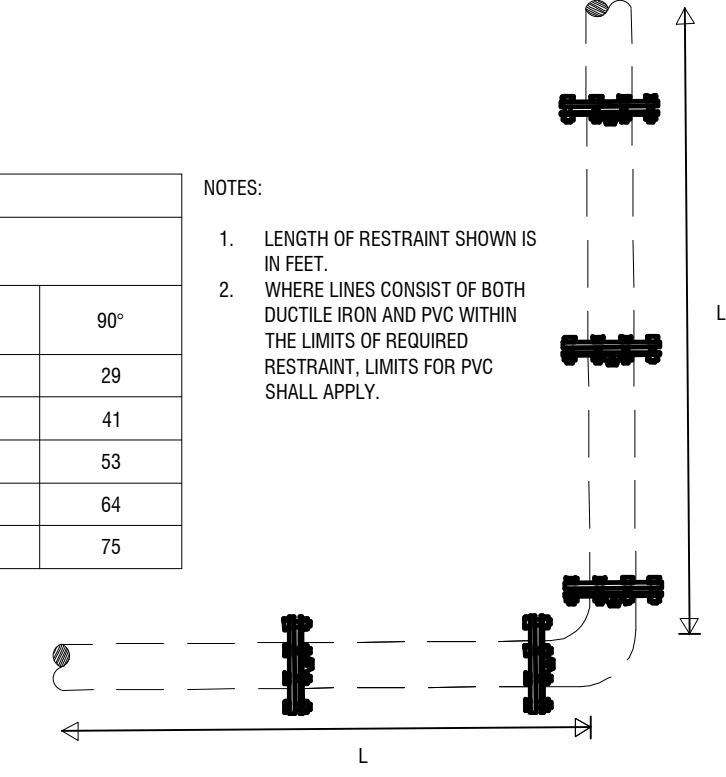
NOTES:
1. LENGTH OF RESTRAINT SHOWN IS IN FEET.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
3. U₁ AND U₂ = UNINTERRUPTED STRAIGHT RUNS OF PIPE IN EACH DIRECTION.
4. U₁ = THE SMALLER OF U₁ AND U₂
5. L = MINIMUM RESTRAINED LENGTH ALONG THE BRANCH.
6. WHERE U₁ IS LESS THAN 0', RESTRAINT TEE AS A 90° HORIZONTAL BEND.

		PVC LINE			
TEE	U ₁	5'-10"	11'-20"	21'-35"	> 35"
4X4	43	28	4	*	*
6X4	38	17	*	*	*
6X6	64	49	25	*	*
8X4	34	6	*	*	*
8X6	61	42	10	*	*
8X8	87	72	48	12	*
10X4	29	*	*	*	*
10X6	58	34	*	*	*
10X8	84	66	35	*	*
10X10	106	91	67	31	*
12X4	24	*	*	*	*
12X6	54	26	*	*	*
12X8	82	60	23	*	*
12X10	104	86	57	13	*
12X12	126	112	87	51	*

REDUCER RESTRAINT

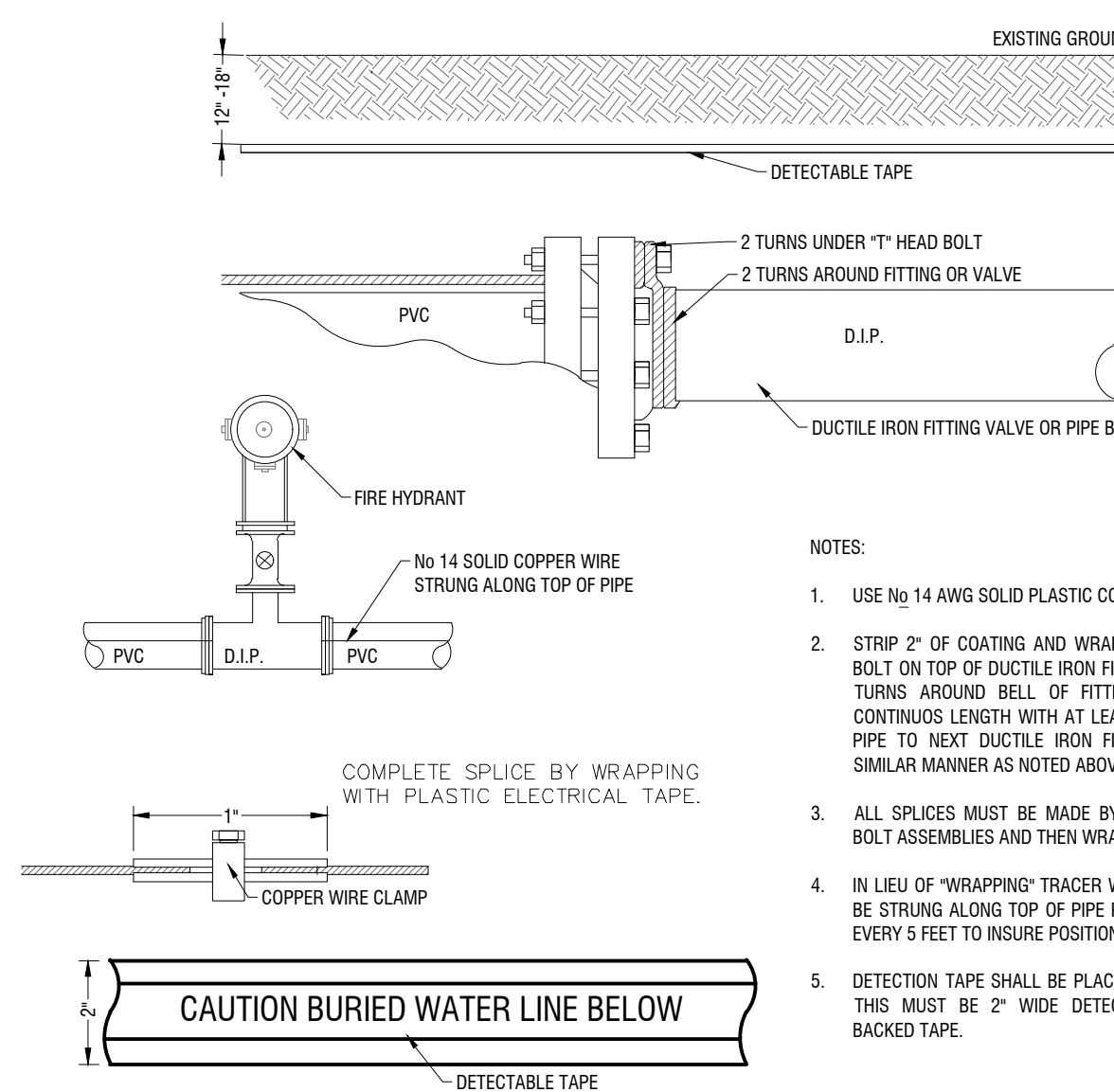
PIPE DIAMETER	DUCTILE IRON				PVC LINE			
	11 1/2"	22 1/2"	45"	90"	11 1/2"	22 1/2"	45"	90"
4	2	4	8	20	3	6	12	29
6	3	6	12	28	4	8	17	41
8	4	7	15	36	5	11	22	53
10	4	9	18	43	6	13	26	64
12	5	10	21	51	7	15	31	75
16	6	13	27	65				
20	8	16	33	79				
24	9	18	38	92				

HORIZONTAL BEND RESTRAINT



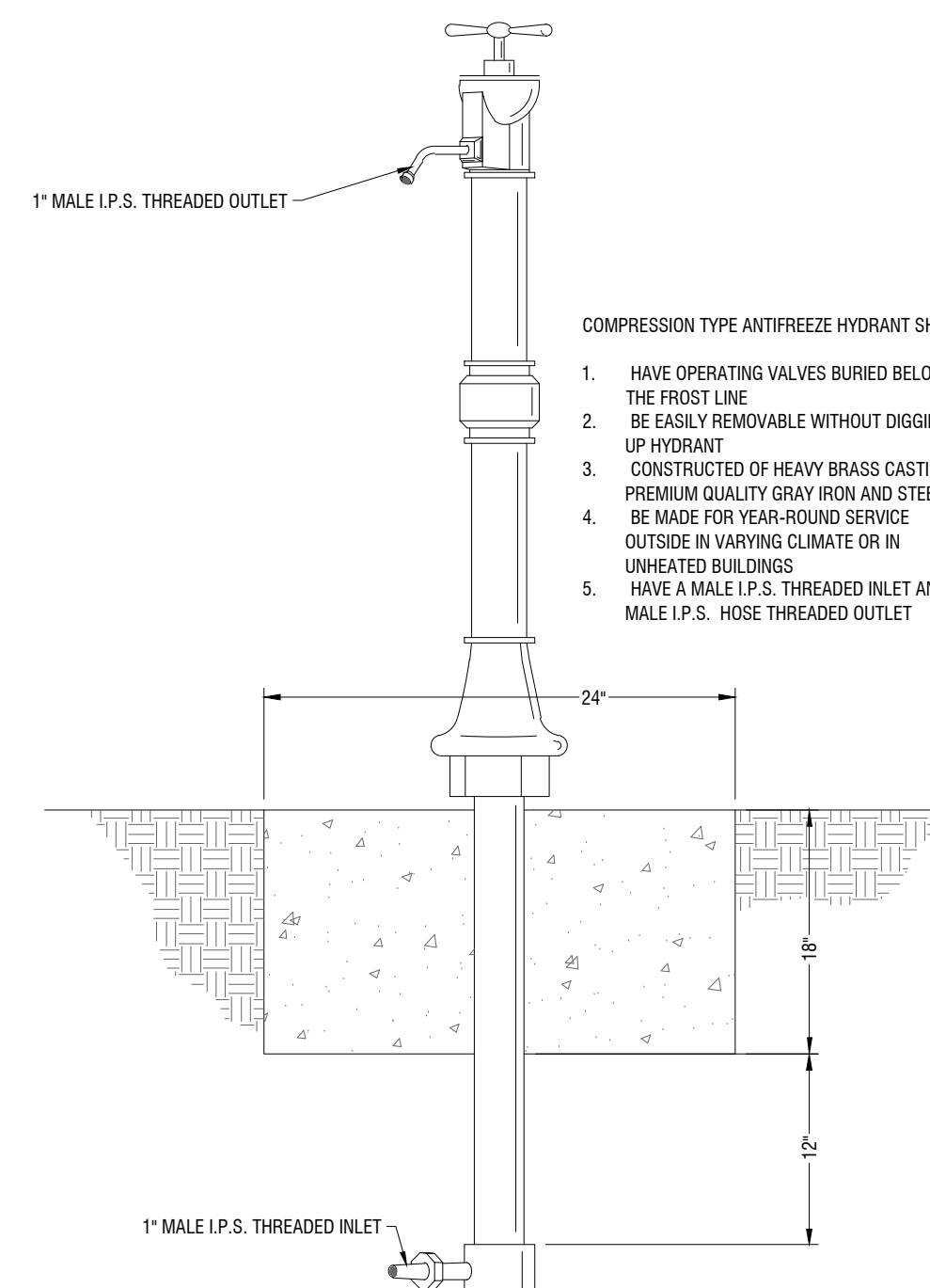
NOTES:
1. LENGTH OF RESTRAINT SHOWN IS IN FEET.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.

RESTRAINED JOINTS DETAILS
N.T.S.



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

NOTES:
1. USE No 14 AWG SOLID PLASTIC COATED COPPER WIRE.
2. STRIP 2" OF COATING AND WRAP WIRE 2 TURNS UNDER "T" HEAD BOLT ON TOP OF DUCTILE IRON FITTING (VALVE), NEXT WRAP WIRE 2 TURNS AROUND BELL OF FITTING (VALVE) AND WRAP WITH A CONTINUOUS LENGTH WITH AT LEAST 4 WRAPS PER LENGTH OF PVC PIPE TO NEXT DUCTILE IRON FITTING. TERMINATE AT FITTING IN SIMILAR MANNER AS NOTED ABOVE.
3. ALL SPLICES MUST BE MADE BY USING COPPER WIRE SPLICE "U" BOLT ASSEMBLIES AND THEN WRAPPING WITH ELECTRICAL TAPE.
4. IN LIEU OF "WRAPPING" TRACER WIRE AROUND PVC PIPE, WIRE MAY BE STRUNG ALONG TOP OF PIPE PROVIDED IT IS TAPED TO THE PIPE EVERY 5 FEET TO INSURE POSITION USING BACKFILL.
5. DETECTION TAPE SHALL BE PLACED ALONG ALL PVC WATER MAINS. THIS MUST BE 2" WIDE DETECTABLE ALUMINUM FOR PLASTIC BACKED TAPE.



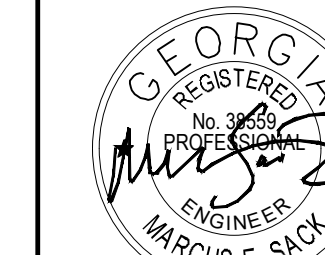
COMPRESSION TYPE ANTIFREEZE HYDRANT DETAIL
N.T.S.

COMPRESSION TYPE ANTIFREEZE HYDRANT SHALL:
1. HAVE OPERATING VALVES BURIED BELOW THE FROST LINE
2. BE EASILY REMOVABLE WITHOUT DIGGING UP HYDRANT
3. CONSTRUCTED OF HEAVY BRASS CASTING, PREMIUM QUALITY GRAY IRON AND STEEL
4. BE MADE FOR YEAR-ROUND SERVICE OUTSIDE IN VARYING CLIMATE OR IN UNHEATED BUILDINGS
5. HAVE A MALE I.P.S. THREADED INLET AND A MALE I.P.S. HOSE THREADED OUTLET

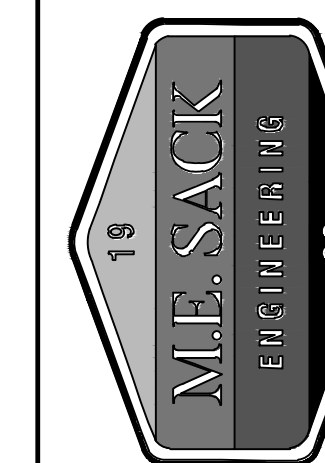
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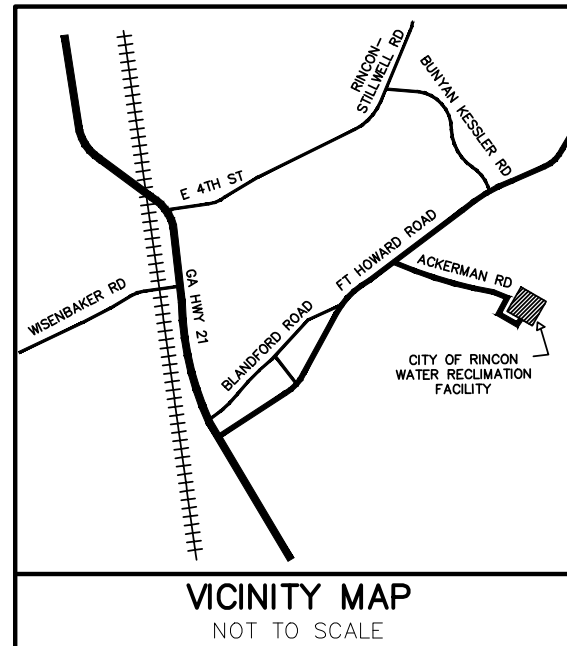
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GENERAL
DETAILS

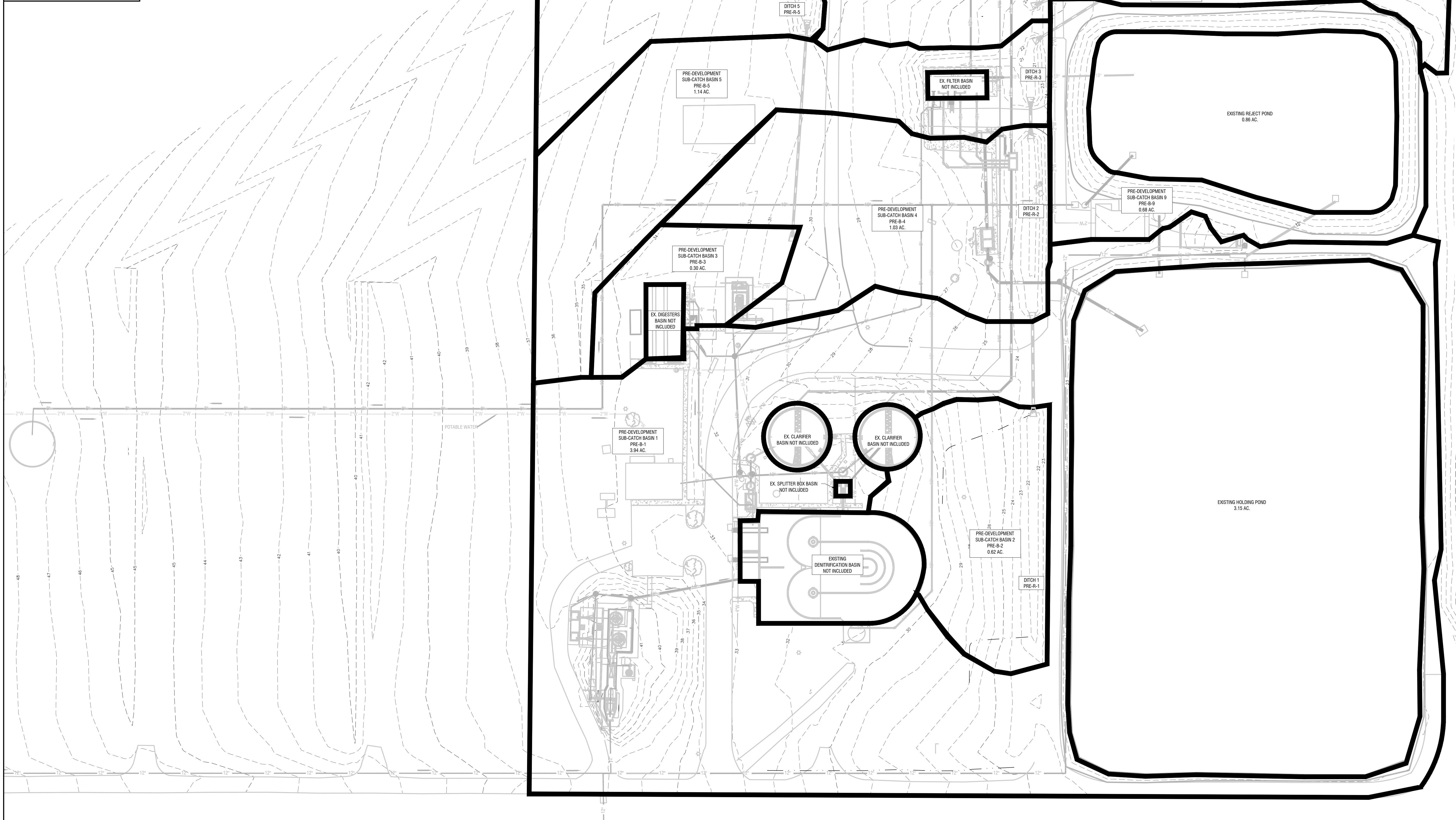
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VICINITY MAP
NOT TO SCALE



REVISIONS:

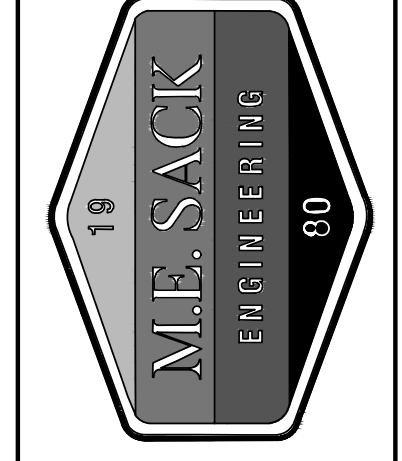
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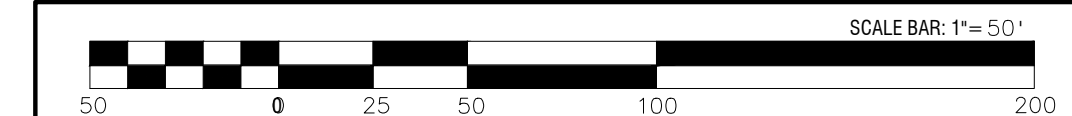
PRE
DEVELOPMENT
BASIN

C9

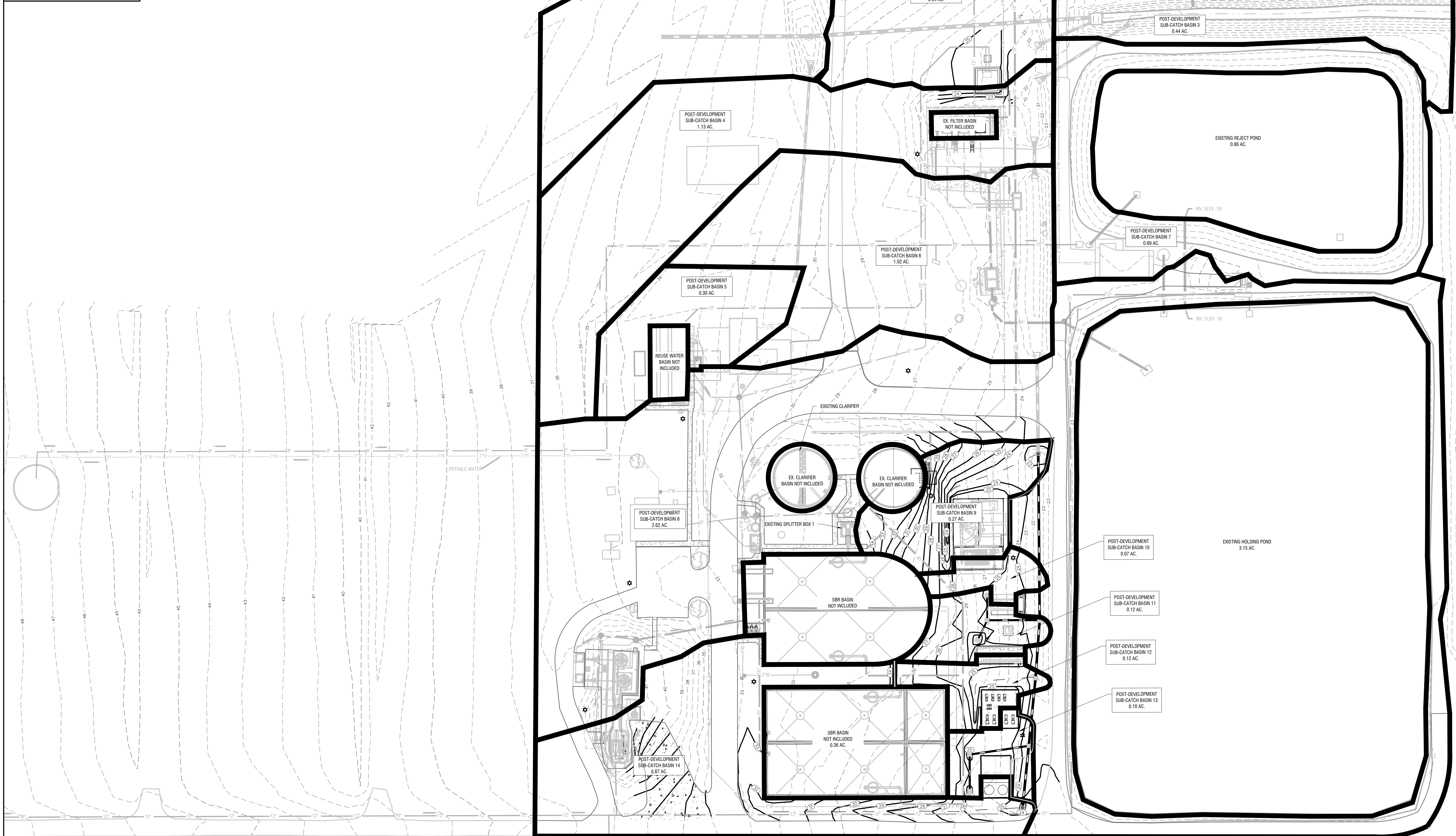
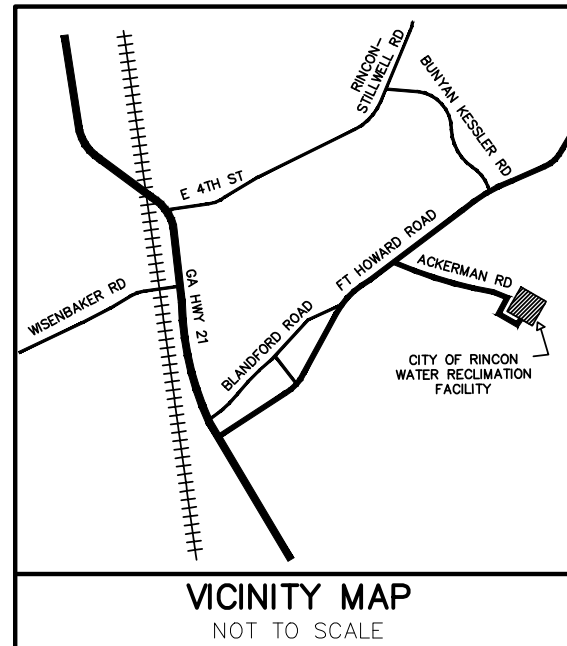
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 CERTIFICATION # 70248
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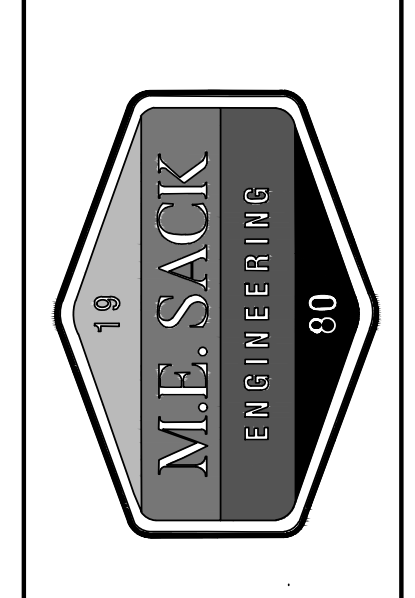
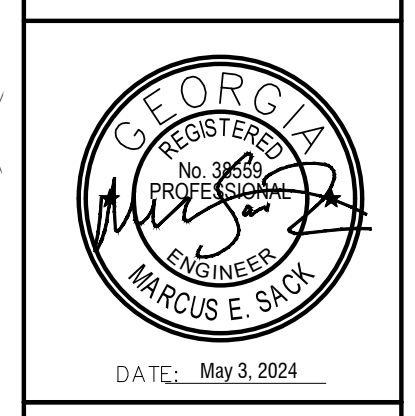
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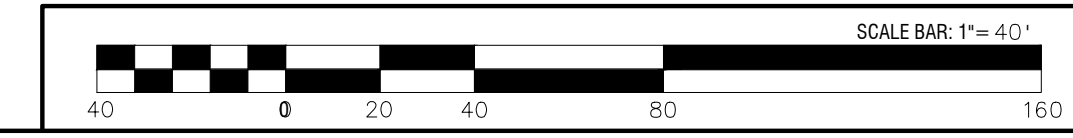
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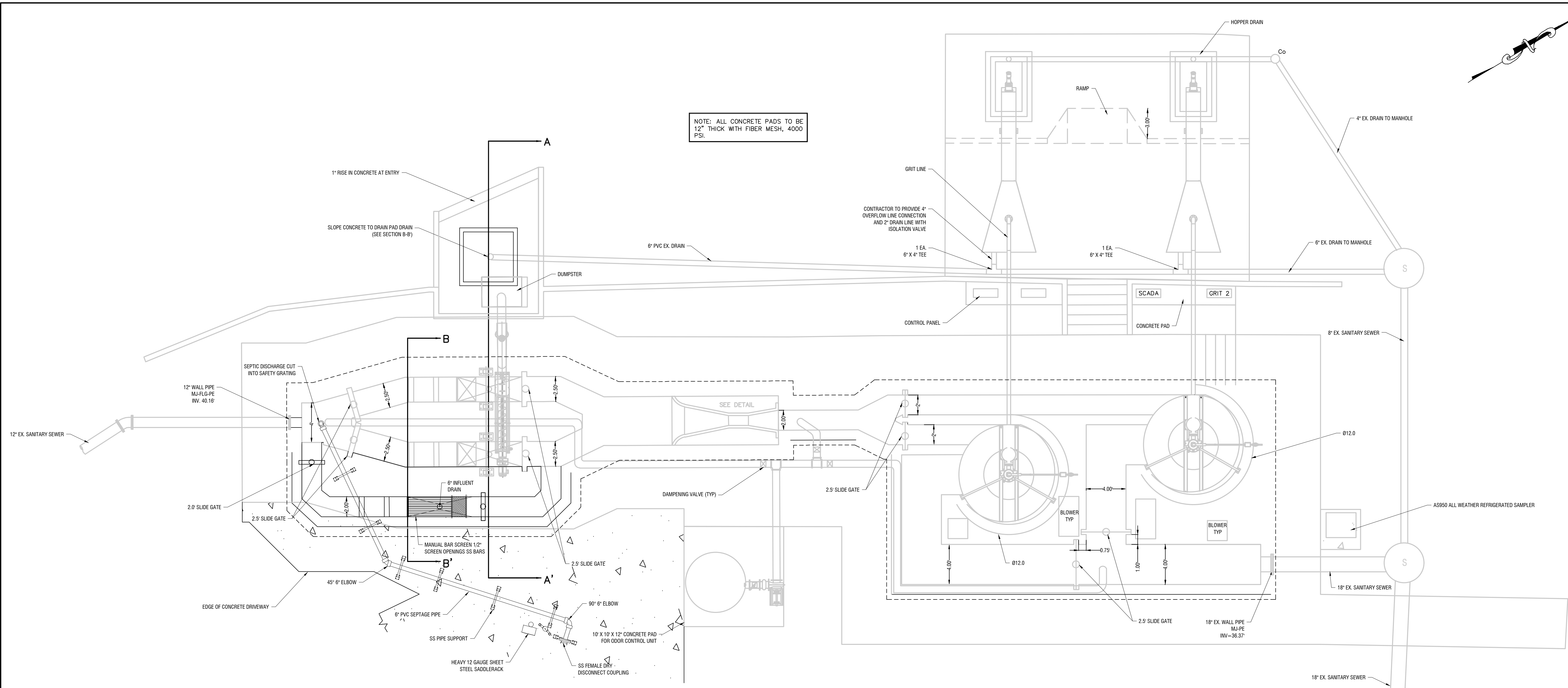
**WWTP
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POST
DEVELOPMENT
BASIN

C10



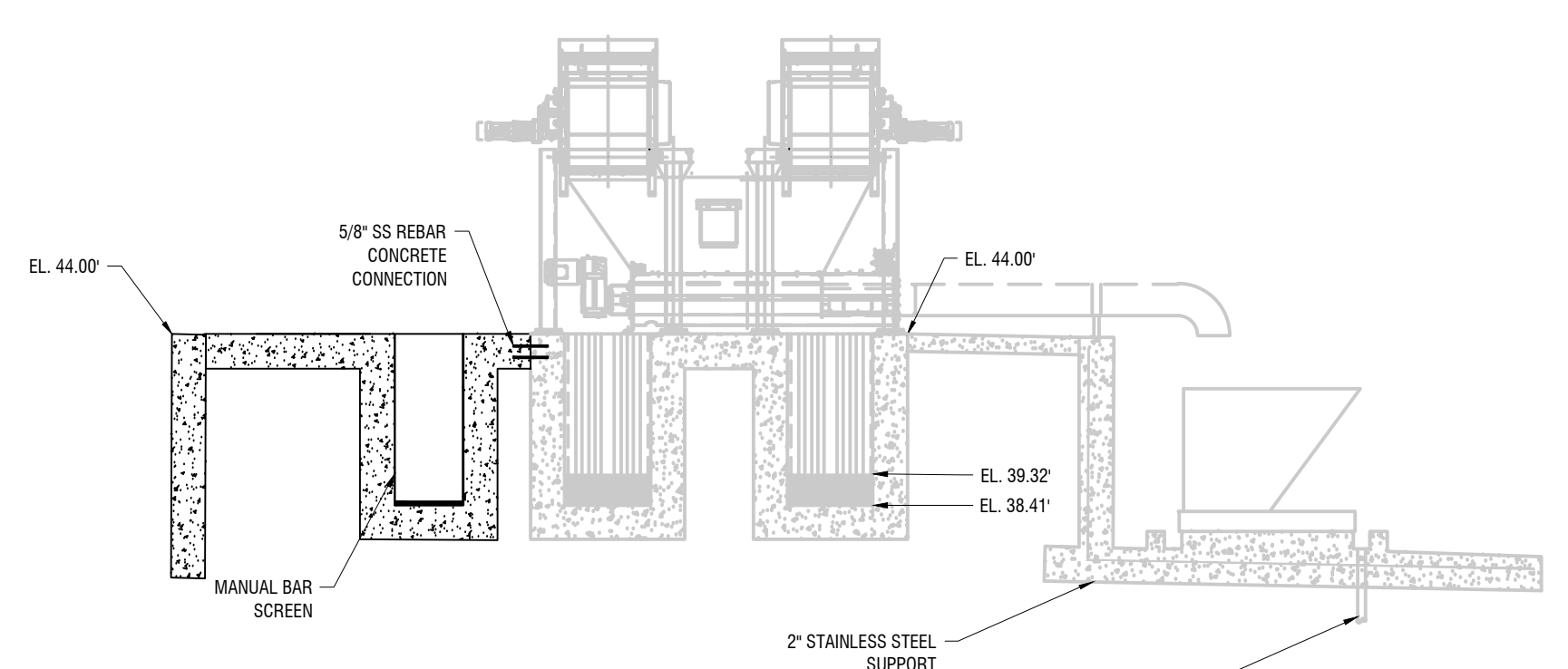
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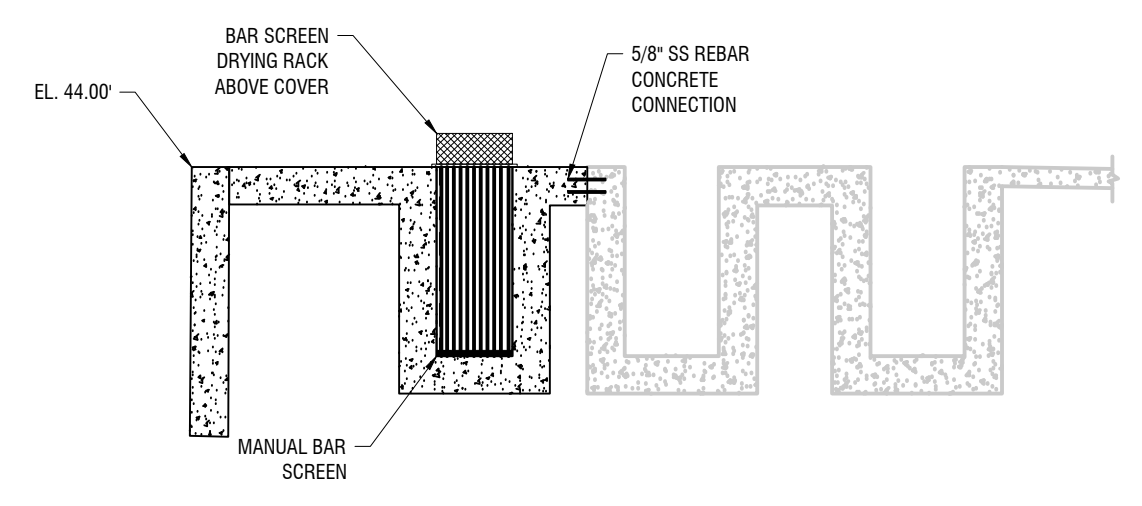
NOTE: ALL CONCRETE PADS TO BE 12" THICK WITH FIBER MESH, 4000 PSI.

NOTE: PROVIDE 6" x 30" CAMLOCK LIGHTWEIGHT FLEXIBLE HOSE WHICH WILL BE STORED ON THE MAINTENANCE BUILDING. THE SADDLE RACK WILL BE USED FOR TEMPORARY USE WHILE SETTING THE TRUCK FOR DISCHARGE AT THE SEPTAGE RECEIVING STATION.

PLAN VIEW
SCALE 1"=5'

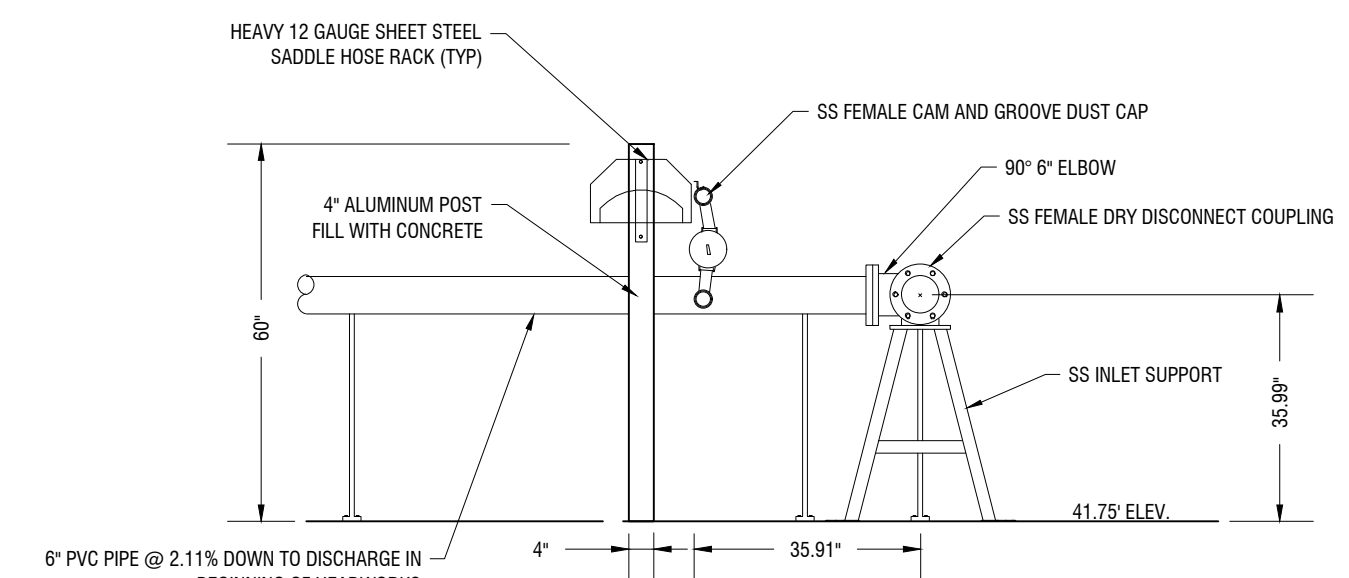


HEADWORKS
SECTION A-A
SCALE 1"=5'

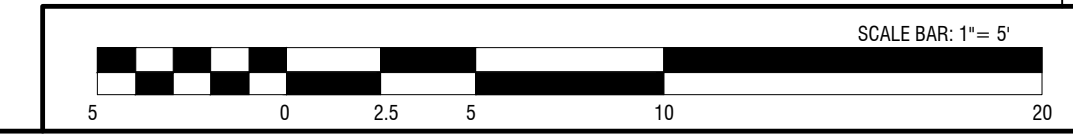


HEADWORKS
SECTION B-B
SCALE 1"=5'

NOTE:
1) CONNECT NEW CONCRETE SLAB TO EXISTING USING 5/8" DIAMETER SMOOTH SS REBAR COATED TO PREVENT BOND.



SEPTAGE RECEIVING
STATION
SCALE 1"=5'



REVISIONS:	
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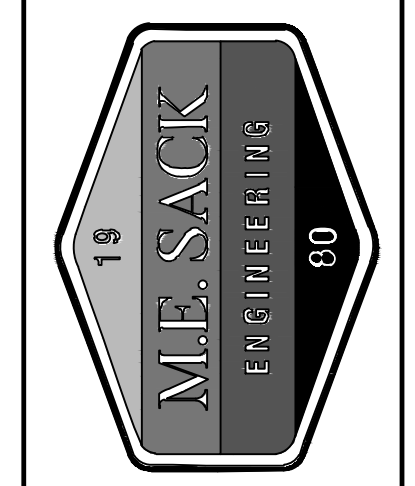
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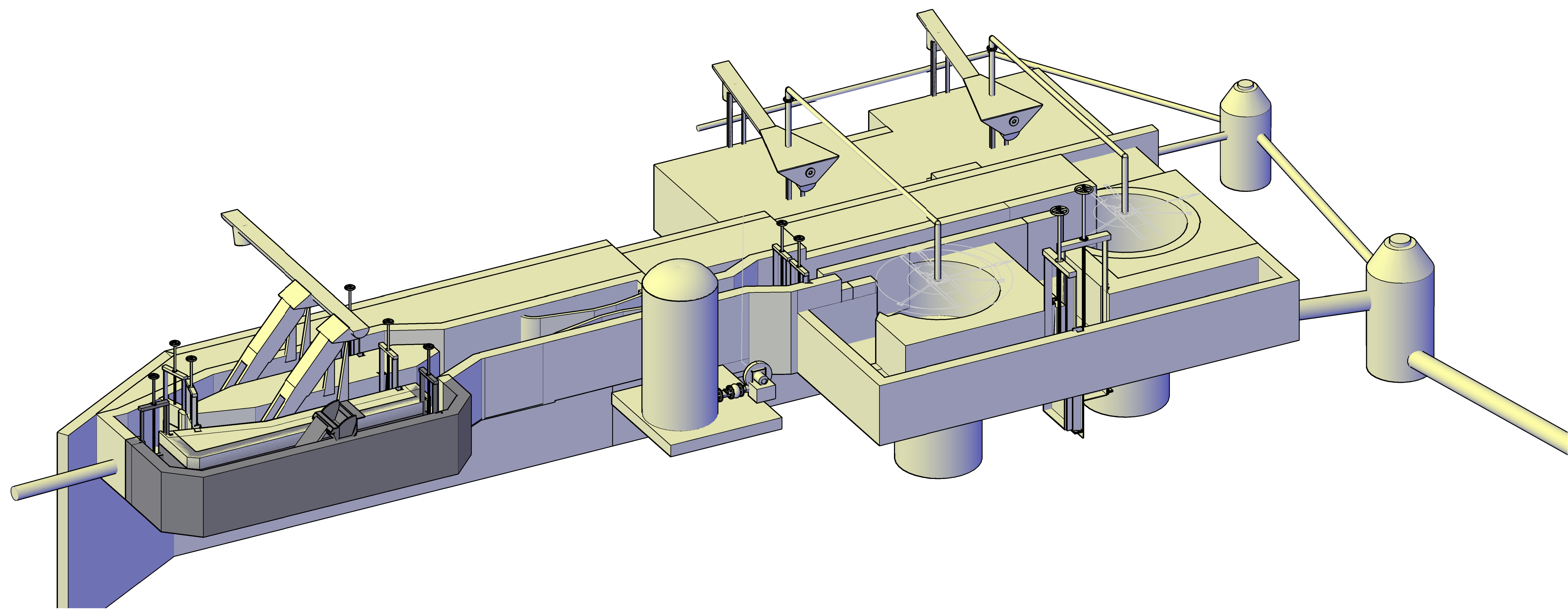
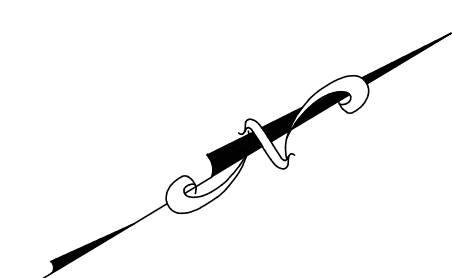
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WWTP Expansion

HEADWORKS

M1

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PLOT DATE: May 3, 2024

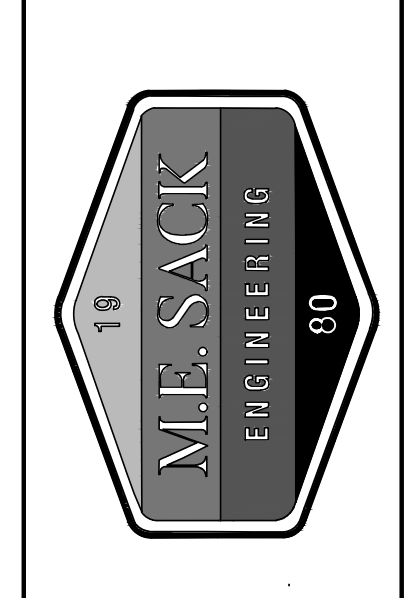
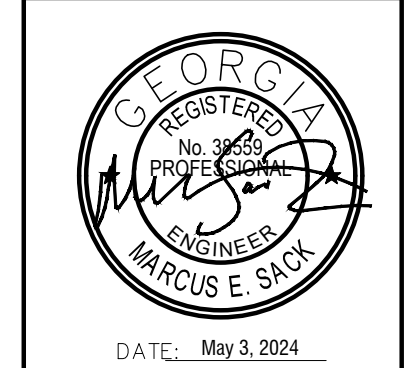


HEADWORKS
ISOMETRIC VIEW
NTS

REVISIONS:	
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4	GENERAL REVISIONS

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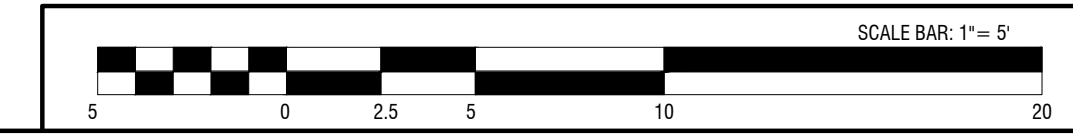
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**WWTP
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HEADWORKS
DETAILS

M2



FILE NO: 2020-10 PRJ
PLOT DATE: May 3, 2024

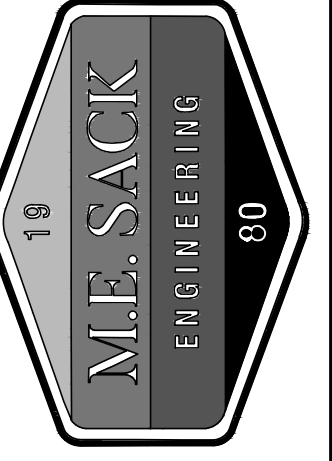
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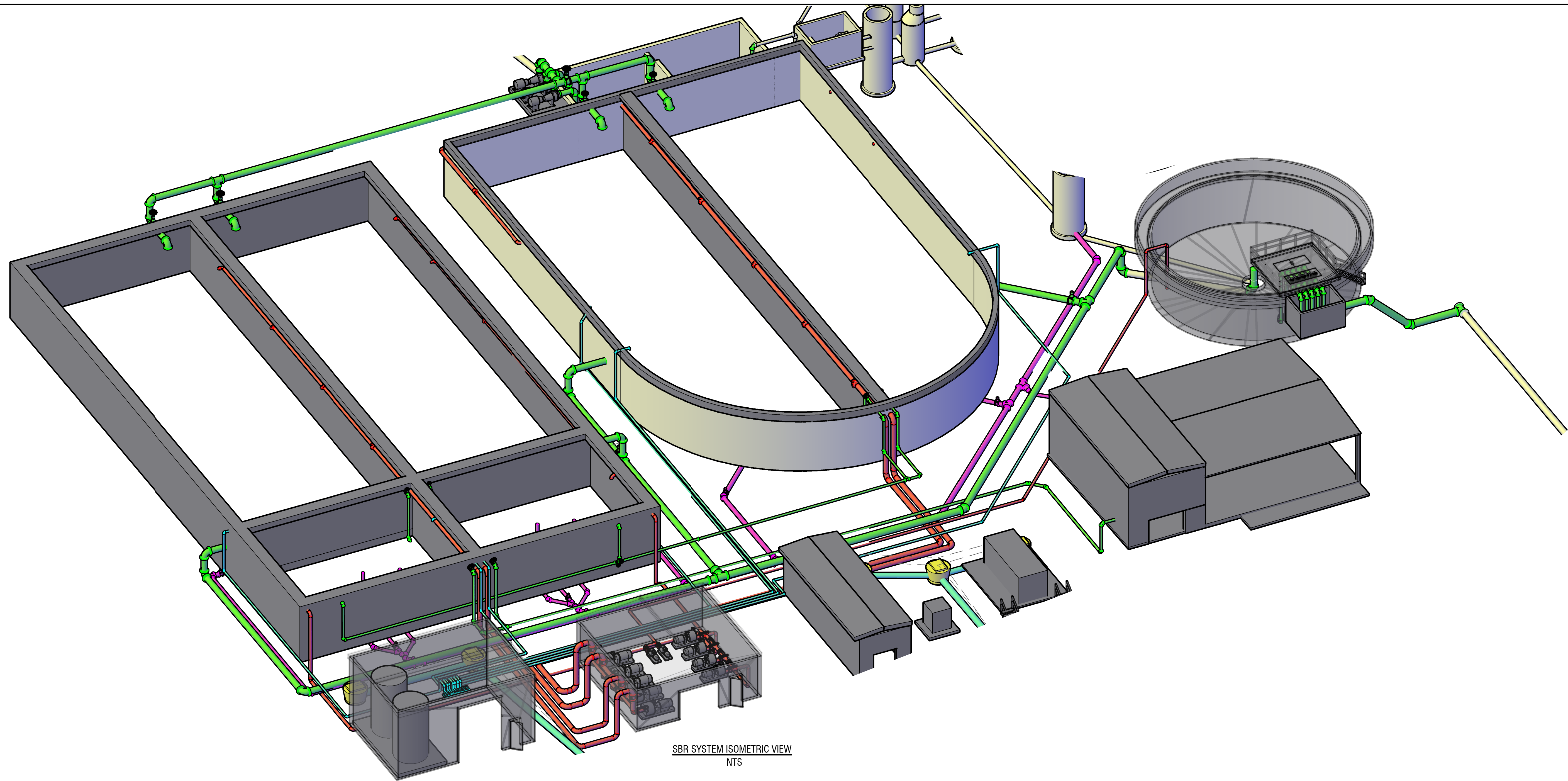
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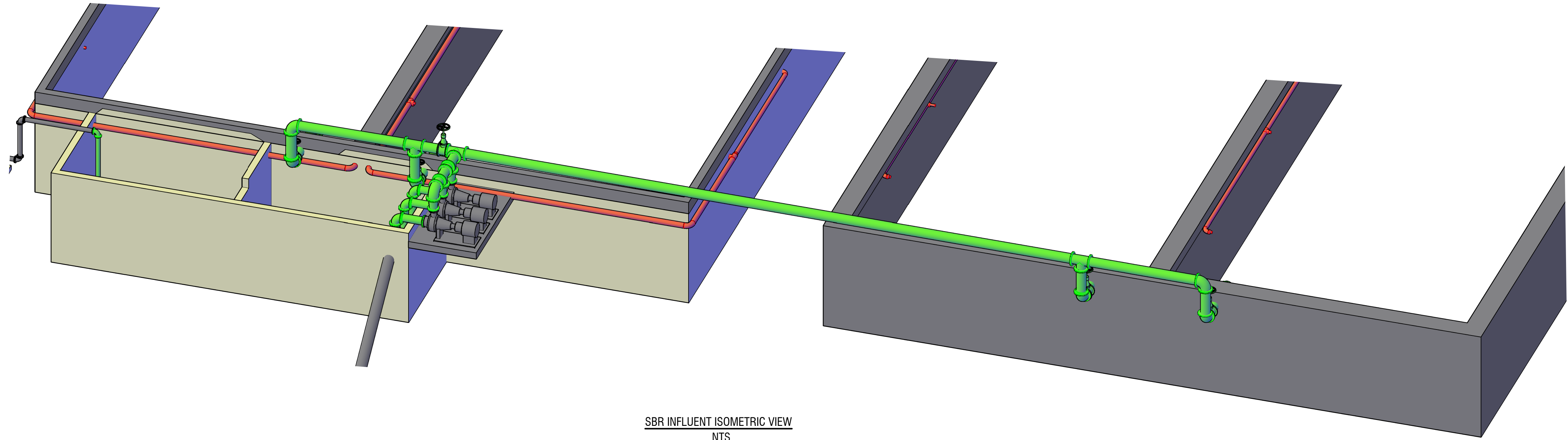
**SBR SYSTEM
ISOMETRIC
VIEW**

M3

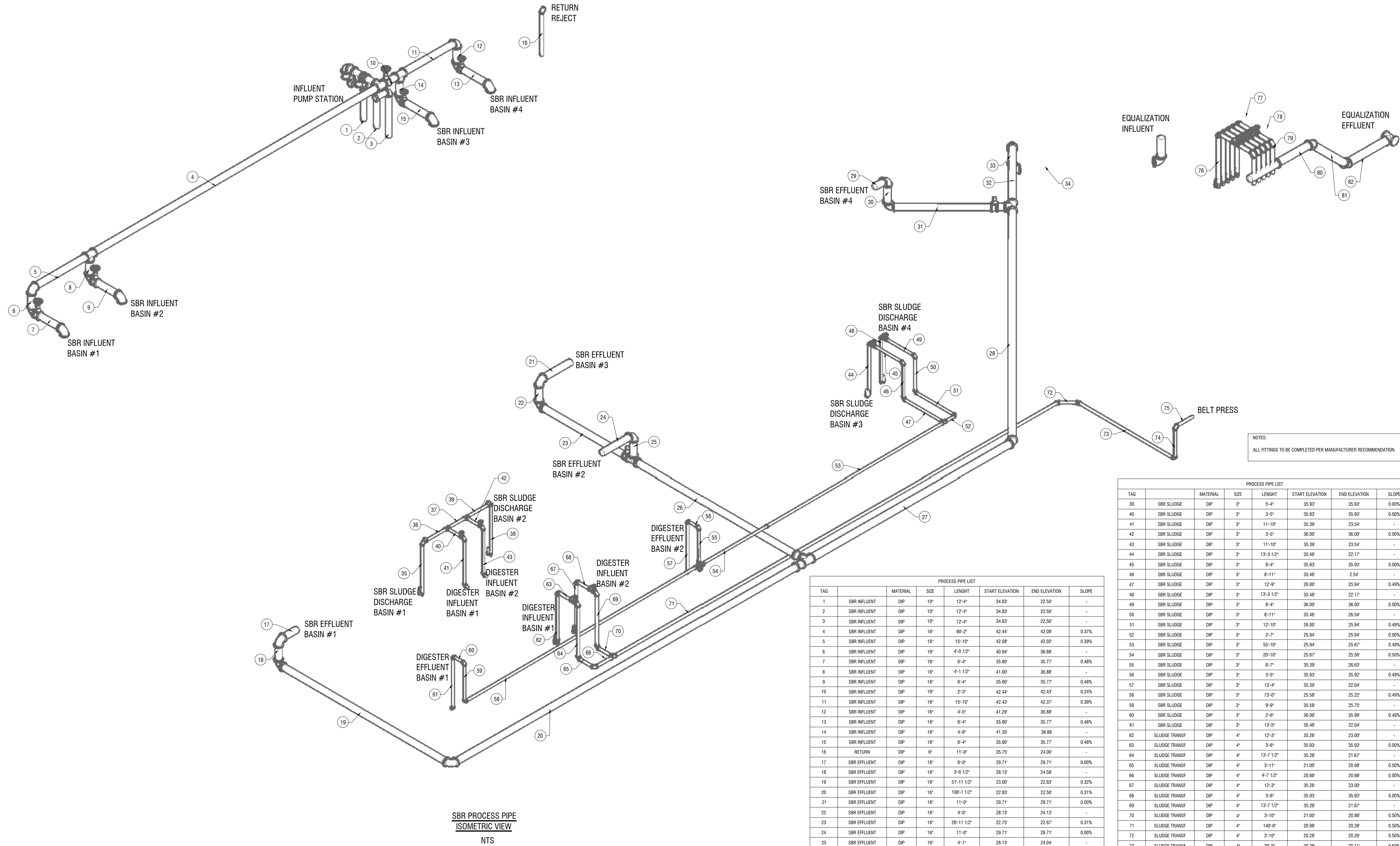
FILE NO: 2020-10 PRJ
 PLOT DATE: May 3, 2024



SBR SYSTEM ISOMETRIC VIEW
NTS



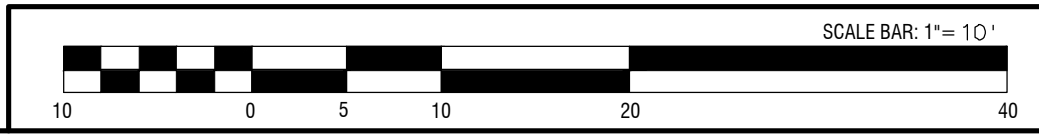
SBR INFLUENT ISOMETRIC VIEW
NTS



NOTES:
ALL FITTINGS TO BE COMPLETED PER MANUFACTURER RECOMMENDATION.

PROCESS PIPE LIST						
TAG	MATERIAL	SIZE	LENGTH	START ELEVATION	END ELEVATION	SLOPE
1	SBR INFLUENT	DIP	10'-0"	34.83	22.50	-
2	SBR INFLUENT	DIP	10'-0"	34.83	22.50	-
3	SBR INFLUENT	DIP	10'-0"	34.83	22.50	-
4	SBR INFLUENT	DIP	16'-0"	42.44	42.08	0.37%
5	SBR INFLUENT	DIP	16'-0"	42.08	42.02	0.39%
6	SBR INFLUENT	DIP	16'-0"	40.94	36.88	-
7	SBR INFLUENT	DIP	16'-0"	35.80	35.77	0.48%
8	SBR INFLUENT	DIP	16'-0"	41.00	36.88	-
9	SBR INFLUENT	DIP	16'-0"	35.80	35.77	0.48%
10	SBR INFLUENT	DIP	16'-0"	42.44	42.43	0.24%
11	SBR INFLUENT	DIP	16'-0"	42.43	42.37	0.39%
12	SBR INFLUENT	DIP	16'-0"	41.29	36.88	-
13	SBR INFLUENT	DIP	16'-0"	35.80	35.77	0.48%
14	SBR INFLUENT	DIP	16'-0"	41.29	36.88	-
15	SBR INFLUENT	DIP	16'-0"	35.80	35.77	0.48%
16	RETURN	DIP	6'-0"	35.75	24.00	-
17	SBR EFFLUENT	DIP	16'-0"	29.71	29.71	0.00%
18	SBR EFFLUENT	DIP	16'-0"	28.13	24.58	-
19	SBR EFFLUENT	DIP	16'-0"	23.00	22.83	0.32%
20	SBR EFFLUENT	DIP	16'-0"	22.83	22.50	0.31%
21	SBR EFFLUENT	DIP	16'-0"	29.71	29.71	0.00%
22	SBR EFFLUENT	DIP	16'-0"	28.13	24.13	-
23	SBR EFFLUENT	DIP	16'-0"	22.75	22.67	0.31%
24	SBR EFFLUENT	DIP	16'-0"	29.71	29.71	0.00%
25	SBR EFFLUENT	DIP	16'-0"	28.13	24.04	-
26	SBR EFFLUENT	DIP	16'-0"	22.67	22.50	0.33%
27	SBR EFFLUENT	DIP	18'-0"	22.29	22.29	0.33%
28	SBR EFFLUENT	DIP	18'-0"	22.00	22.00	0.33%
29	SBR EFFLUENT	DIP	18'-0"	29.71	29.71	0.00%
30	SBR EFFLUENT	DIP	16'-0"	28.13	23.67	-
31	SBR EFFLUENT	DIP	16'-0"	22.08	22.00	0.32%
32	SBR EFFLUENT	DIP	18'-0"	21.97	21.97	0.32%
33	SBR EFFLUENT	DIP	18'-0"	20.29	16.54	-
34	SBR EFFLUENT (EX)	DIP	18'-0"	14.83	14.75	0.28%
35	SBR SLUDGE	DIP	3'-0"	35.39	22.17	-
36	SBR SLUDGE	DIP	3'-0"	35.93	35.93	0.00%
37	SBR SLUDGE	DIP	3'-0"	35.93	35.93	0.00%
38	SBR SLUDGE	DIP	3'-0"	35.39	22.17	-

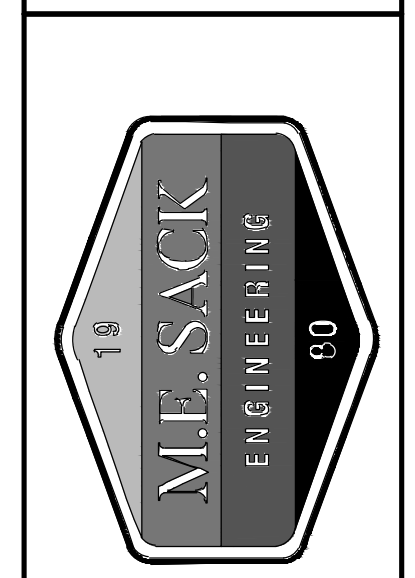
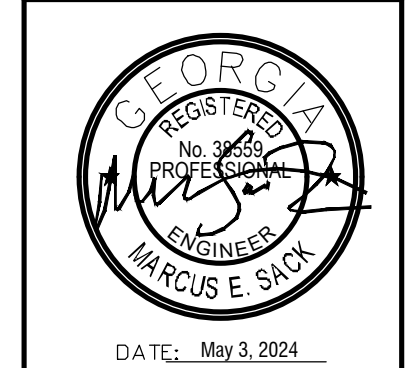
PROCESS PIPE LIST						
TAG	MATERIAL	SIZE	LENGTH	START ELEVATION	END ELEVATION	SLOPE
39	SBR SLUDGE	DIP	3'-0"	35.93	35.93	0.00%
40	SBR SLUDGE	DIP	3'-0"	35.93	35.93	0.00%
41	SBR SLUDGE	DIP	3'-0"	35.39	23.54	-
42	SBR SLUDGE	DIP	3'-0"	36.00	36.00	0.00%
43	SBR SLUDGE	DIP	3'-0"	35.39	23.54	-
44	SBR SLUDGE	DIP	3'-0"	35.46	22.17	-
45	SBR SLUDGE	DIP	3'-0"	35.93	35.93	0.00%
46	SBR SLUDGE	DIP	3'-0"	35.46	2.54	-
47	SBR SLUDGE	DIP	3'-0"	26.00	25.94	0.49%
48	SBR SLUDGE	DIP	3'-0"	35.46	22.17	-
49	SBR SLUDGE	DIP	3'-0"	36.00	36.00	0.00%
50	SBR SLUDGE	DIP	3'-0"	35.46	26.54	-
51	SBR SLUDGE	DIP	3'-0"	26.00	25.94	0.49%
52	SBR SLUDGE	DIP	3'-0"	25.94	25.94	0.00%
53	SBR SLUDGE	DIP	3'-0"	25.94	25.67	0.49%
54	SBR SLUDGE	DIP	3'-0"	25.67	25.56	0.50%
55	SBR SLUDGE	DIP	3'-0"	35.39	26.63	-
56	SBR SLUDGE	DIP	3'-0"	35.93	35.93	0.49%
57	SBR SLUDGE	DIP	3'-0"	35.39	22.04	-
58	SBR SLUDGE	DIP	3'-0"	25.58	25.22	0.49%
59	SBR SLUDGE	DIP	3'-0"	35.58	25.75	-
60	SBR SLUDGE	DIP	3'-0"	36.00	35.99	0.49%
61	SBR SLUDGE	DIP	3'-0"	35.46	22.04	-
62	SLUDGE TRANSF	DIP	4'-0"	35.26	23.00	-
63	SLUDGE TRANSF	DIP	4'-0"	35.93	35.93	0.00%
64	SLUDGE TRANSF	DIP	4'-0"	35.26	21.67	-
65	SLUDGE TRANSF	DIP	4'-0"	21.00	20.98	0.50%
66	SLUDGE TRANSF	DIP	4'-0"	20.98	20.98	0.00%
67	SLUDGE TRANSF	DIP	4'-0"	35.26	23.00	-
68	SLUDGE TRANSF	DIP	4'-0"	35.93	35.93	0.00%
69	SLUDGE TRANSF	DIP	4'-0"	35.26	21.67	-
70	SLUDGE TRANSF	DIP	4'-0"	21.00	20.98	0.50%
71	SLUDGE TRANSF	DIP	4'-0"	20.98	20.28	0.50%
72	SLUDGE TRANSF	DIP	4'-0"	20.28	20.26	0.50%
73	SLUDGE TRANSF	DIP	4'-0"	20.26	20.11	0.50%
74	SLUDGE TRANSF	DIP	4'-0"	24.75	20.92	-
75	SLUDGE TRANSF	DIP	4'-0"	25.46	25.46	0.00%
76 (XS)	EO TRANSFER	DIP	6'-0"	37.63	23.63	-
77 (XS)	EO TRANSFER	DIP	6'-0"	38.50	38.50	0.00%
78 (XS)	EO TRANSFER	DIP	6'-0"	38.50	38.50	0.00%
79 (XS)	EO TRANSFER	DIP	6'-0"	37.63	29.17	-
80	EO TRANSFER	DIP	18'-0"	29.17	29.10	0.35%
81	EO TRANSFER	DIP	18'-0"	28.50	18.67	70.24%
82	EO TRANSFER	DIP	18'-0"	17.96	18.00	0.35%



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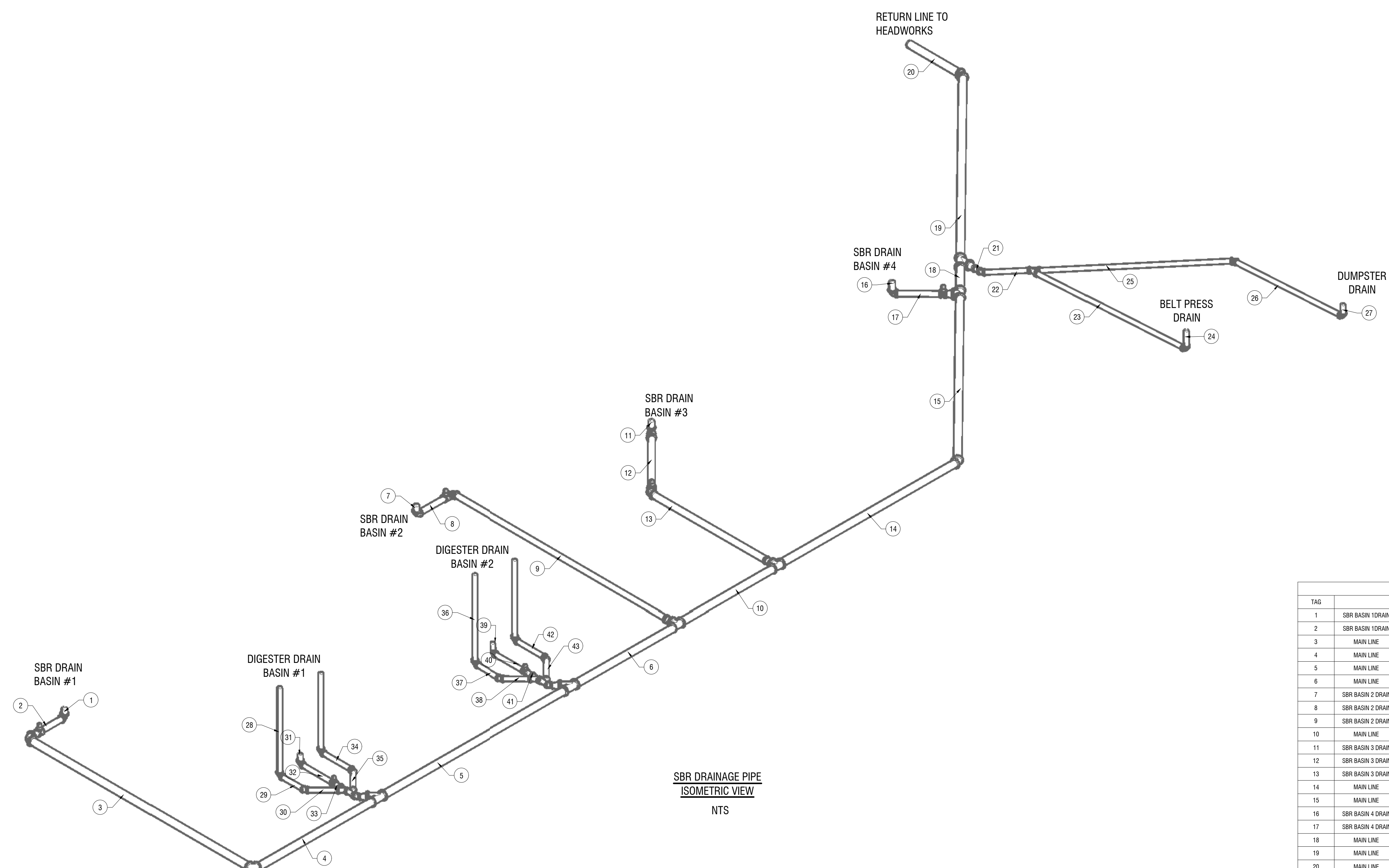
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PROCESS PIPE
ISOMETRIC
PLAN

M4

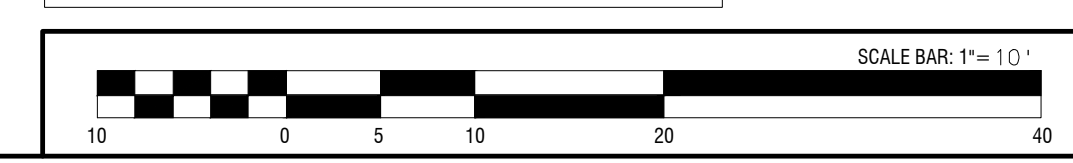
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PLOT DATE: May 3, 2024



SBR DRAINAGE PIPE
ISOMETRIC VIEW
NTS

DRAINAGE PIPE LIST							
TAG		MATERIAL	SIZE	LENGTH	START ELEVATION	END ELEVATION	SLOPE
1	SBR BASIN 1 DRAIN	DIP	8"	0' - 11"	21.50'	20.63'	-
2	SBR BASIN 1 DRAIN	DIP	8"	4' - 9"	19.74'	19.71'	0.44%
3	MAIN LINE	DIP	12"	52' - 5"	19.71'	19.58'	0.24%
4	MAIN LINE	DIP	12"	27' - 8"	19.58'	19.52'	0.24%
5	MAIN LINE	DIP	12"	43' - 9"	19.52'	19.41'	0.24%
6	MAIN LINE	DIP	12"	23' - 8"	19.41'	19.35'	0.24%
7	SBR BASIN 2 DRAIN	DIP	8"	1' - 0"	21.50'	20.50'	-
8	SBR BASIN 2 DRAIN	DIP	8"	7' - 2"	19.61'	19.58'	0.44%
9	SBR BASIN 2 DRAIN	DIP	8"	51' - 3"	19.58'	19.35'	0.44%
10	MAIN LINE	DIP	12"	22' - 0"	19.35'	19.30'	0.24%
11	SBR BASIN 3 DRAIN	DIP	8"	1' - 3"	21.50'	20.28'	-
12	SBR BASIN 3 DRAIN	DIP	10"	14' - 5"	19.42'	19.38'	0.30%
13	SBR BASIN 3 DRAIN	DIP	10"	27' - 5"	19.38'	19.30'	0.30%
14	MAIN LINE	DIP	12"	42' - 0"	19.30'	19.20'	0.24%
15	MAIN LINE	DIP	12"	48' - 2"	19.17'	19.05'	0.24%
16	SBR BASIN 4 DRAIN	DIP	8"	1' - 6"	21.50'	19.99'	-
17	SBR BASIN 4 DRAIN	DIP	8"	7' - 5"	19.08'	19.05'	0.44%
18	MAIN LINE	DIP	12"	6' - 6"	19.05'	19.03'	0.24%
19	MAIN LINE	DIP	12"	53' - 5"	19.03'	18.90'	0.24%
20	MAIN LINE	DIP	12"	13' - 3"	18.90'	18.87'	0.24%
21	BELT PRESS DRAIN	DIP	6"	1' - 2"	19.13'	19.03'	6.00%
22	BELT PRESS DRAIN	DIP	6"	7' - 7"	19.58'	19.13'	6.00%
23	BELT PRESS DRAIN	DIP	6"	35' - 2"	21.69'	19.58'	6.00%
24	BELT PRESS DRAIN	DIP	6"	3' - 0"	25.50'	22.48'	-
25	BELT PRESS DRAIN	DIP	6"	32' - 9"	21.54'	19.58'	6.00%
26	BELT PRESS DRAIN	DIP	6"	25' - 0"	23.04'	21.54'	6.00%
27	BELT PRESS DRAIN	DIP	6"	1' - 8"	25.50'	23.83'	-
28	DIGESTER 1 DRAIN	DIP	6"	17' - 7"	37.94'	20.37'	-
29	DIGESTER 1 DRAIN	DIP	6"	4' - 10"	19.57'	19.55'	0.50%
30	DIGESTER 1 DRAIN	DIP	6"	5' - 0"	19.55'	19.52'	0.50%
31	DIGESTER 1 DRAIN	DIP	6"	1' - 2"	21.50'	20.35'	-
32	DIGESTER 1 DRAIN	DIP	6"	6' - 11"	19.55'	19.52'	0.50%
33	DIGESTER 1 DRAIN	DIP	6"	1' - 0"	19.52'	19.52'	0.50%
34	DIGESTER 1 DRAIN	DIP	6"	6' - 6"	19.58'	19.55'	0.50%
35	DIGESTER 1 DRAIN	DIP	6"	5' - 2"	19.55'	19.52'	0.50%
36	DIGESTER 2 DRAIN	DIP	6"	17' - 8"	37.94'	20.29'	-
37	DIGESTER 2 DRAIN	DIP	6"	5' - 2"	19.46'	19.43'	0.50%
38	DIGESTER 2 DRAIN	DIP	6"	4' - 6"	19.43'	19.41'	0.50%
39	DIGESTER 2 DRAIN	DIP	6"	1' - 2"	21.50'	20.23'	-
40	DIGESTER 2 DRAIN	DIP	6"	7' - 9"	19.44'	19.41'	0.50%
41	DIGESTER 2 DRAIN	DIP	6"	1' - 0"	19.41'	19.41'	0.50%
42	DIGESTER 2 DRAIN	DIP	6"	6' - 4"	19.47'	19.44'	0.50%
43	DIGESTER 2 DRAIN	DIP	6"	5' - 8"	19.44'	19.41'	0.50%

NOTES:
ALL FITTINGS TO BE COMPLETED PER MANUFACTURER RECOMMENDATION.

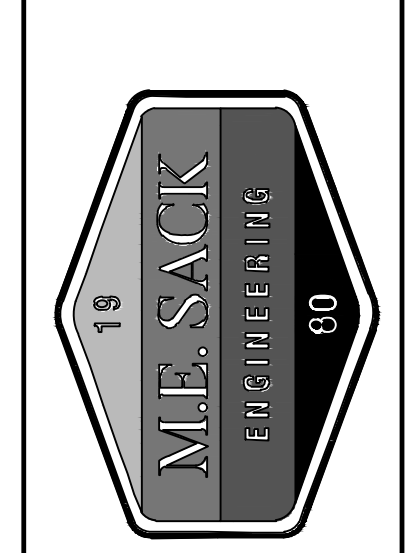
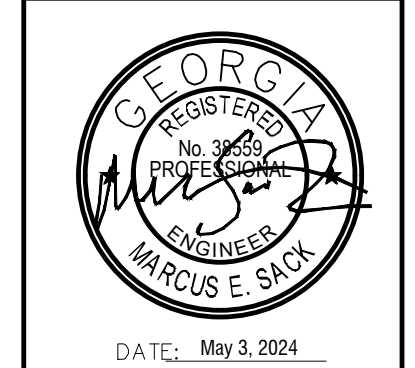


REVISIONS:

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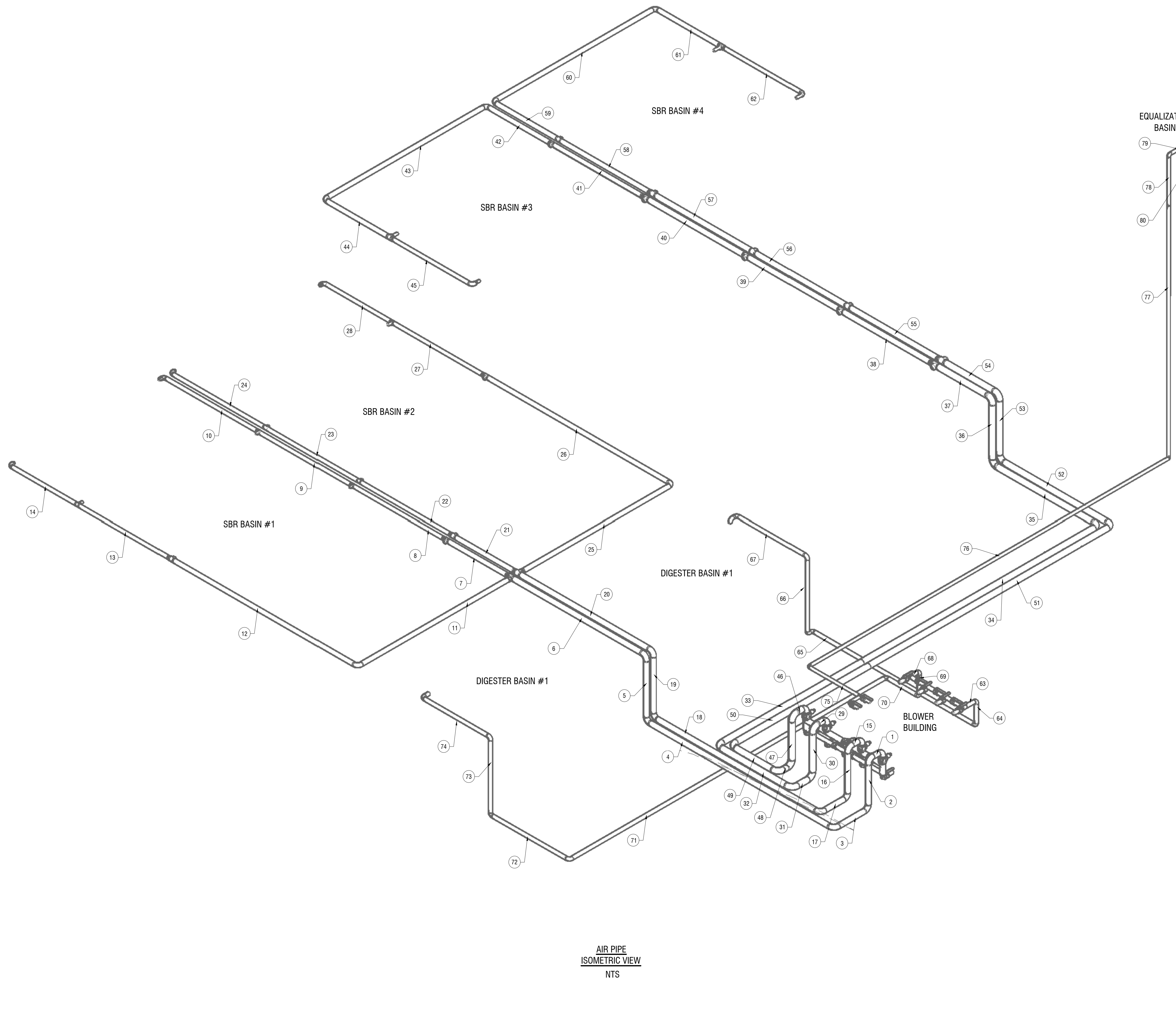
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WWTP
Expansion

DRAINAGE
ISOMETRIC
PLAN

M5

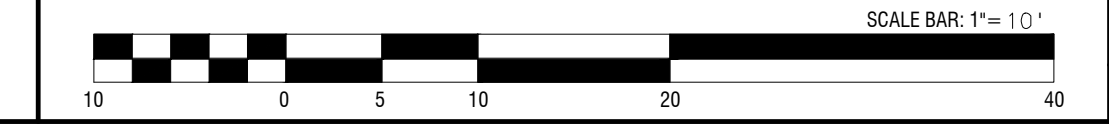
FILE NO: 2020-10 PRJ
PLOT DATE: May 3, 2024



AIR PIPE ISOMETRIC PLAN

NOTES:
ALL FITTINGS TO BE COMPLETED PER MANUFACTURER RECOMMENDATION.

AIR PIPE LIST							
TAG		MATERIAL	SIZE	LENGTH	START ELEVATION	END ELEVATION	SLOPE
1	SBR BASIN 1	STAINLESS STEEL	10"	1'-9"	30.83'	30.83'	0.1%
2	SBR BASIN 1	STAINLESS STEEL	10"	10'-4"	29.58'	19.29'	-
3	SBR BASIN 1	STAINLESS STEEL	10"	7'-9"	18.00'	18.00'	0.1%
4	SBR BASIN 1	STAINLESS STEEL	10"	53'-0"	18.00'	17.96'	0.1%
5	SBR BASIN 1	STAINLESS STEEL	10"	14'-4"	33.58'	19.21'	-
6	SBR BASIN 1	STAINLESS STEEL	10"	38'-0"	34.83'	34.80'	0.1%
7	SBR BASIN 1	STAINLESS STEEL	8"	17'-3"	34.80'	34.78'	0.1%
8	SBR BASIN 1	STAINLESS STEEL	6"	26'-6"	34.78'	34.75'	0.1%
9	SBR BASIN 1	STAINLESS STEEL	6"	27'-6"	34.75'	34.72'	0.1%
10	SBR BASIN 1	STAINLESS STEEL	6"	27'-6"	34.72'	34.69'	0.1%
11	SBR BASIN 1	STAINLESS STEEL	8"	43'-4"	34.80'	34.76'	0.1%
12	SBR BASIN 1	STAINLESS STEEL	8"	53'-7"	34.76'	34.71'	0.1%
13	SBR BASIN 1	STAINLESS STEEL	6"	26'-4"	34.71'	34.68'	0.1%
14	SBR BASIN 1	STAINLESS STEEL	6"	19'-6"	34.68'	34.66'	0.1%
15	SBR BASIN 2	STAINLESS STEEL	10"	1'-9"	30.83'	30.83'	0.1%
16	SBR BASIN 2	STAINLESS STEEL	10"	10'-4"	29.58'	19.29'	-
17	SBR BASIN 2	STAINLESS STEEL	10"	5'-8"	18.00'	18.00'	0.1%
18	SBR BASIN 2	STAINLESS STEEL	10"	46'-11"	18.00'	17.96'	0.1%
19	SBR BASIN 2	STAINLESS STEEL	10"	14'-4"	33.58'	19.21'	-
20	SBR BASIN 2	STAINLESS STEEL	10"	38'-0"	34.83'	34.80'	0.1%
21	SBR BASIN 2	STAINLESS STEEL	8"	17'-3"	34.80'	34.78'	0.1%
22	SBR BASIN 2	STAINLESS STEEL	6"	26'-6"	34.78'	34.75'	0.1%
23	SBR BASIN 2	STAINLESS STEEL	6"	27'-6"	34.75'	34.72'	0.1%
24	SBR BASIN 2	STAINLESS STEEL	6"	27'-6"	34.72'	34.69'	0.1%
25	SBR BASIN 2	STAINLESS STEEL	8"	43'-4"	34.80'	34.76'	0.1%
26	SBR BASIN 2	STAINLESS STEEL	8"	53'-7"	34.76'	34.71'	0.1%
27	SBR BASIN 2	STAINLESS STEEL	6"	26'-4"	34.71'	34.68'	0.1%
28	SBR BASIN 2	STAINLESS STEEL	6"	19'-6"	34.68'	34.66'	0.1%
29	SBR BASIN 3	STAINLESS STEEL	12"	1'-9"	30.83'	30.83'	0.1%
30	SBR BASIN 3	STAINLESS STEEL	12"	10'-4"	29.58'	19.29'	-
31	SBR BASIN 3	STAINLESS STEEL	12"	3'-7"	18.00'	18.00'	0.1%
32	SBR BASIN 3	STAINLESS STEEL	12"	19'-8"	18.00'	17.99'	0.1%
33	SBR BASIN 3	STAINLESS STEEL	12"	41'-6"	17.99'	17.96'	0.1%
34	SBR BASIN 3	STAINLESS STEEL	12"	89'-1"	17.96'	17.90'	0.1%
35	SBR BASIN 3	STAINLESS STEEL	12"	29'-0"	17.90'	17.88'	0.1%
36	SBR BASIN 3	STAINLESS STEEL	12"	15'-0"	33.10'	19.13'	-
37	SBR BASIN 3	STAINLESS STEEL	12"	14'-10"	34.35'	34.34'	0.1%
38	SBR BASIN 3	STAINLESS STEEL	10"	26'-7"	34.34'	34.31'	0.1%
39	SBR BASIN 3	STAINLESS STEEL	10"	20'-2"	34.31'	34.28'	0.1%
40	SBR BASIN 3	STAINLESS STEEL	10"	28'-3"	34.28'	34.24'	0.1%
41	SBR BASIN 3	STAINLESS STEEL	8"	28'-3"	34.24'	34.23'	0.1%
42	SBR BASIN 3	STAINLESS STEEL	8"	17'-9"	34.23'	34.19'	0.1%
43	SBR BASIN 3	STAINLESS STEEL	8"	46'-7"	34.19'	34.18'	0.1%
44	SBR BASIN 3	STAINLESS STEEL	8"	18'-5"	34.18'	34.17'	0.1%
45	SBR BASIN 3	STAINLESS STEEL	6"	23'-0"	34.17'	34.15'	0.1%
46	SBR BASIN 4	STAINLESS STEEL	12"	1'-9"	30.83'	30.83'	0.1%
47	SBR BASIN 4	STAINLESS STEEL	12"	10'-4"	29.58'	19.29'	-
48	SBR BASIN 4	STAINLESS STEEL	12"	1'-6"	18.00'	18.00'	0.1%
49	SBR BASIN 4	STAINLESS STEEL	12"	11'-6"	18.00'	17.99'	0.1%
50	SBR BASIN 4	STAINLESS STEEL	12"	39'-5"	17.99'	17.96'	0.1%
51	SBR BASIN 4	STAINLESS STEEL	12"	71'-2"	17.96'	17.90'	0.1%
52	SBR BASIN 4	STAINLESS STEEL	12"	31'-0"	17.90'	17.88'	0.1%
53	SBR BASIN 4	STAINLESS STEEL	12"	15'-0"	33.10'	19.13'	-
54	SBR BASIN 4	STAINLESS STEEL	12"	14'-10"	34.35'	34.34'	0.1%
55	SBR BASIN 4	STAINLESS STEEL	10"	26'-7"	34.34'	34.31'	0.1%
56	SBR BASIN 4	STAINLESS STEEL	10"	26'-2"	34.31'	34.28'	0.1%
57	SBR BASIN 4	STAINLESS STEEL	10"	28'-3"	34.28'	34.24'	0.1%
58	SBR BASIN 4	STAINLESS STEEL	8"	28'-3"	34.24'	34.23'	0.1%
59	SBR BASIN 4	STAINLESS STEEL	8"	17'-9"	34.23'	34.19'	0.1%
60	SBR BASIN 4	STAINLESS STEEL	8"	46'-7"	34.19'	34.18'	0.1%
61	SBR BASIN 4	STAINLESS STEEL	8"	18'-5"	34.18'	34.17'	0.1%
62	SBR BASIN 4	STAINLESS STEEL	6"	23'-0"	34.17'	34.15'	0.1%
63	DIGESTER 2	STAINLESS STEEL	6"	2'-6"	23.00'	23.00'	0.1%
64	DIGESTER 2	STAINLESS STEEL	6"	5'-0"	22.25'	17.25'	-
65	DIGESTER 2	STAINLESS STEEL	6"	47'-2"	16.50'	16.51'	0.1%
66	DIGESTER 2	STAINLESS STEEL	6"	18'-5"	35.63'	17.20'	-
67	DIGESTER 2	STAINLESS STEEL	6"	19'-4"	36.38'	36.37'	0.1%
68	DIGESTER 1	STAINLESS STEEL	6"	1'-6"	23.00'	23.00'	0.1%
69	DIGESTER 1	STAINLESS STEEL	6"	5'-0"	22.25'	17.25'	-
70	DIGESTER 1	STAINLESS STEEL	6"	8'-4"	16.50'	16.50'	0.1%
71	DIGESTER 1	STAINLESS STEEL	6"	92'-4"	16.50'	16.42'	0.1%
72	DIGESTER 1	STAINLESS STEEL	6"	21'-10"	16.42'	16.40'	0.1%
73	DIGESTER 1	STAINLESS STEEL	6"	18'-6"	35.63'	17.13'	-
74	DIGESTER 1	STAINLESS STEEL	6"	18'-10"	36.38'	36.37'	0.1%
75	EQUALIZATION	STAINLESS STEEL	4"	14'-6"	22.75'	22.74'	0.1%
76	EQUALIZATION	STAINLESS STEEL	4"	106'-2"	22.74'	22.65'	0.1%
77	EQUALIZATION	STAINLESS STEEL	4"	91'-0"	22.65'	22.57'	0.1%
78	EQUALIZATION	STAINLESS STEEL	4"	12'-6"	35.50'	22.95'	-
79	EQUALIZATION	STAINLESS STEEL	4"	4'-9"	36.00'	36.00'	0.1%
80	EQUALIZATION	STAINLESS STEEL	4"	12'-6"	35.50'	23.00'	-



REVISIONS:

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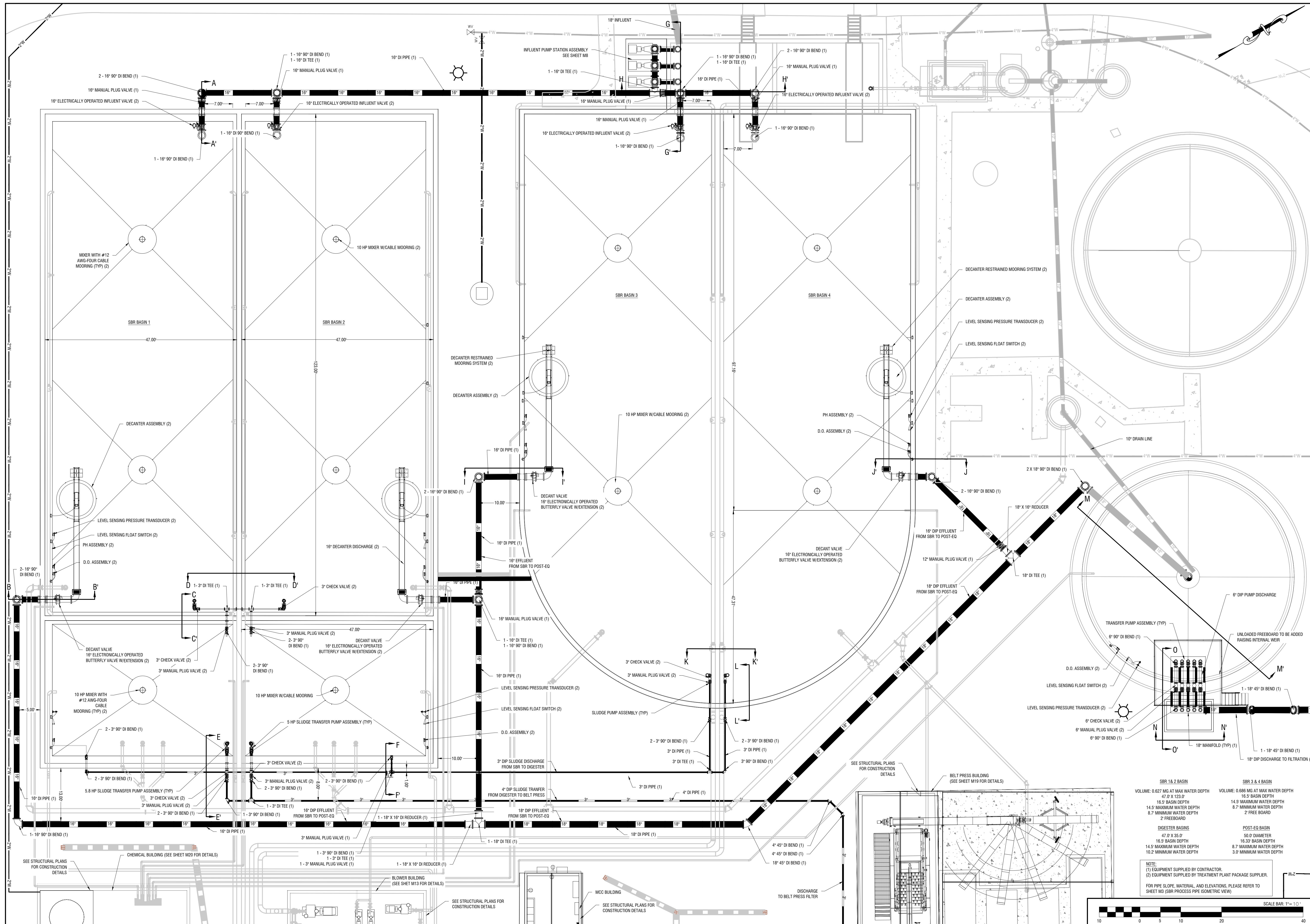
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WWTP Expansion

AIR PIPE ISOMETRIC PLAN

M6

FILE NO: 2020-10 PRJ
PLOT DATE: May 3, 2024



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GEORGIA REGISTERED ENGINEER
 No. 3299
MARCUS E. SACK
 DATE: May 3, 2024

M.E. SACK ENGINEERING

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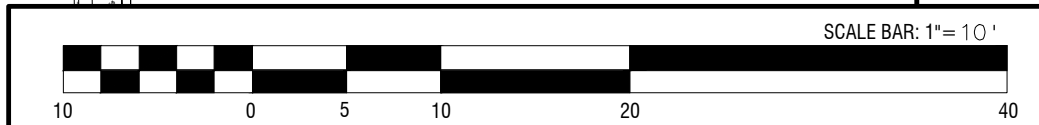
SBR PLAN VIEW

M7

FILE NO: 2020-10 PRJ
PLAT DATE: May 3, 2024

SBR 1 & 2 BASIN	SBR 3 & 4 BASIN
VOLUME: 0.627 MG AT MAX WATER DEPTH	VOLUME: 0.686 MG AT MAX WATER DEPTH
47.0' X 123.0'	47.0' X 123.0'
16.5' BASIN DEPTH	14.5' MAXIMUM WATER DEPTH
14.5' MAXIMUM WATER DEPTH	8.7' MINIMUM WATER DEPTH
8.7' MINIMUM WATER DEPTH	2' FREEBOARD
2' FREEBOARD	
DIGESTER BASINS	POST-EQ BASIN
47.0' X 35.0'	50.0' DIAMETER
16.5' BASIN DEPTH	16.33' BASIN DEPTH
14.5' MAXIMUM WATER DEPTH	8.7' MAXIMUM WATER DEPTH
10.2' MINIMUM WATER DEPTH	3.0' MINIMUM WATER DEPTH

NOTE:
 (1) EQUIPMENT SUPPLIED BY CONTRACTOR.
 (2) EQUIPMENT SUPPLIED BY TREATMENT PLANT PACKAGE SUPPLIER.
 FOR PIPE SLOPE, MATERIAL, AND ELEVATIONS, PLEASE REFER TO SHEET M8 (SBR PROCESS PIPE ISOMETRIC VIEW).

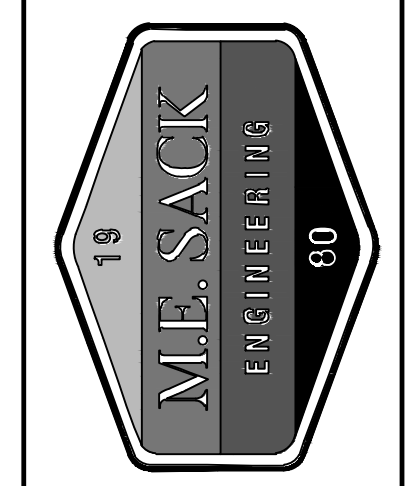
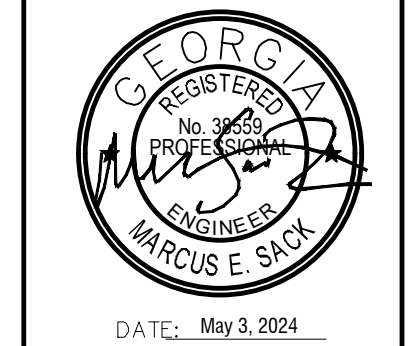


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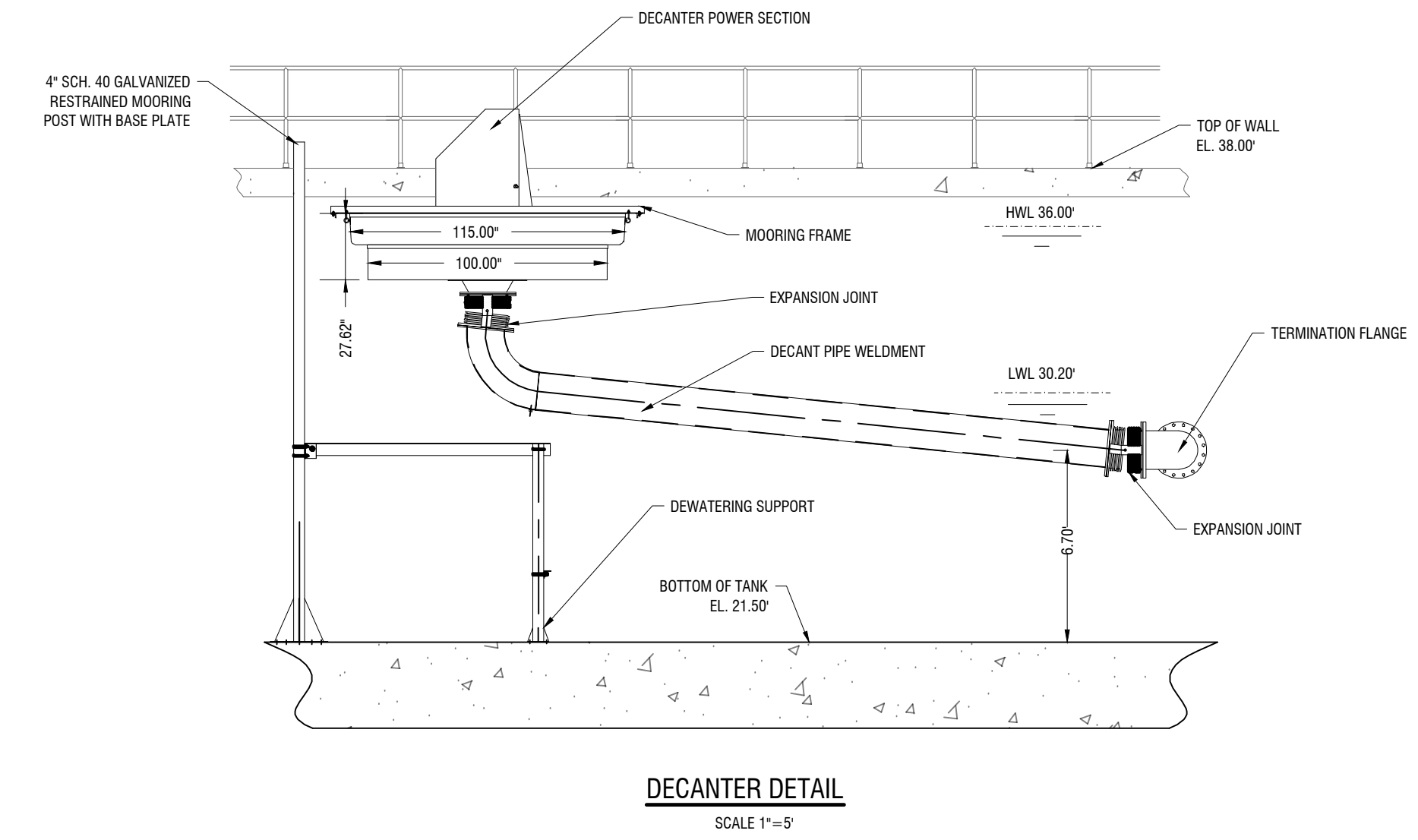
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WWTP Expansion

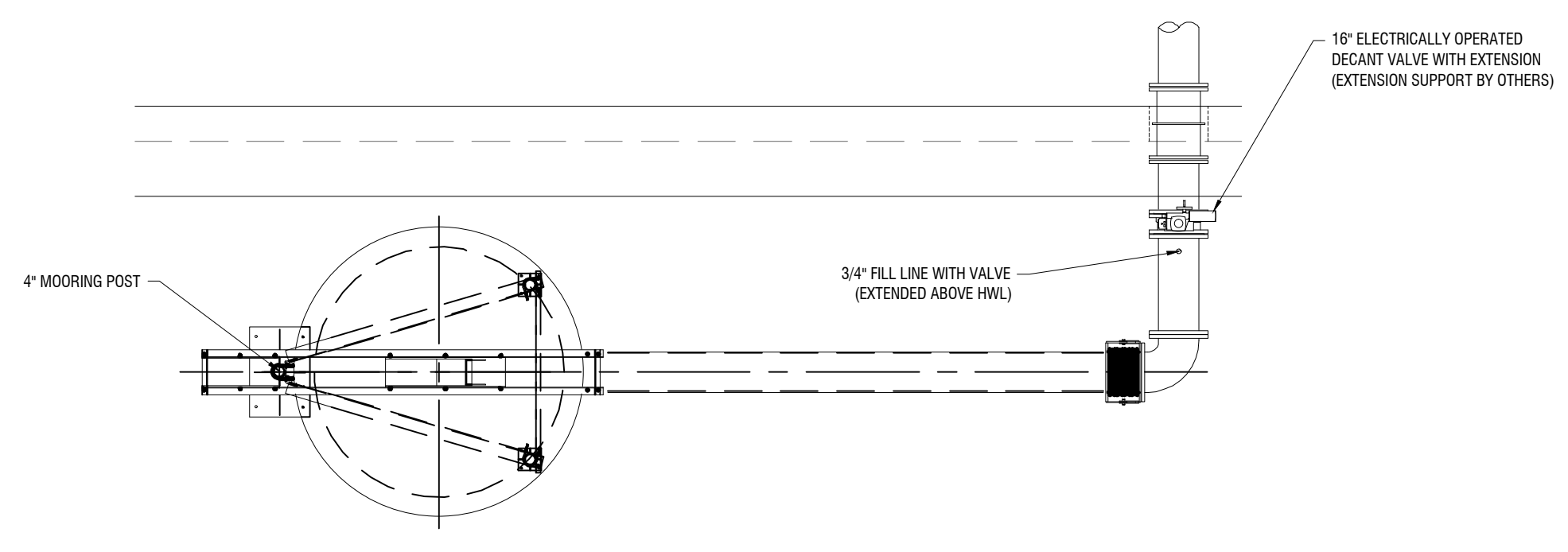
SBR SECTION VIEW BASINS 1&2

M8

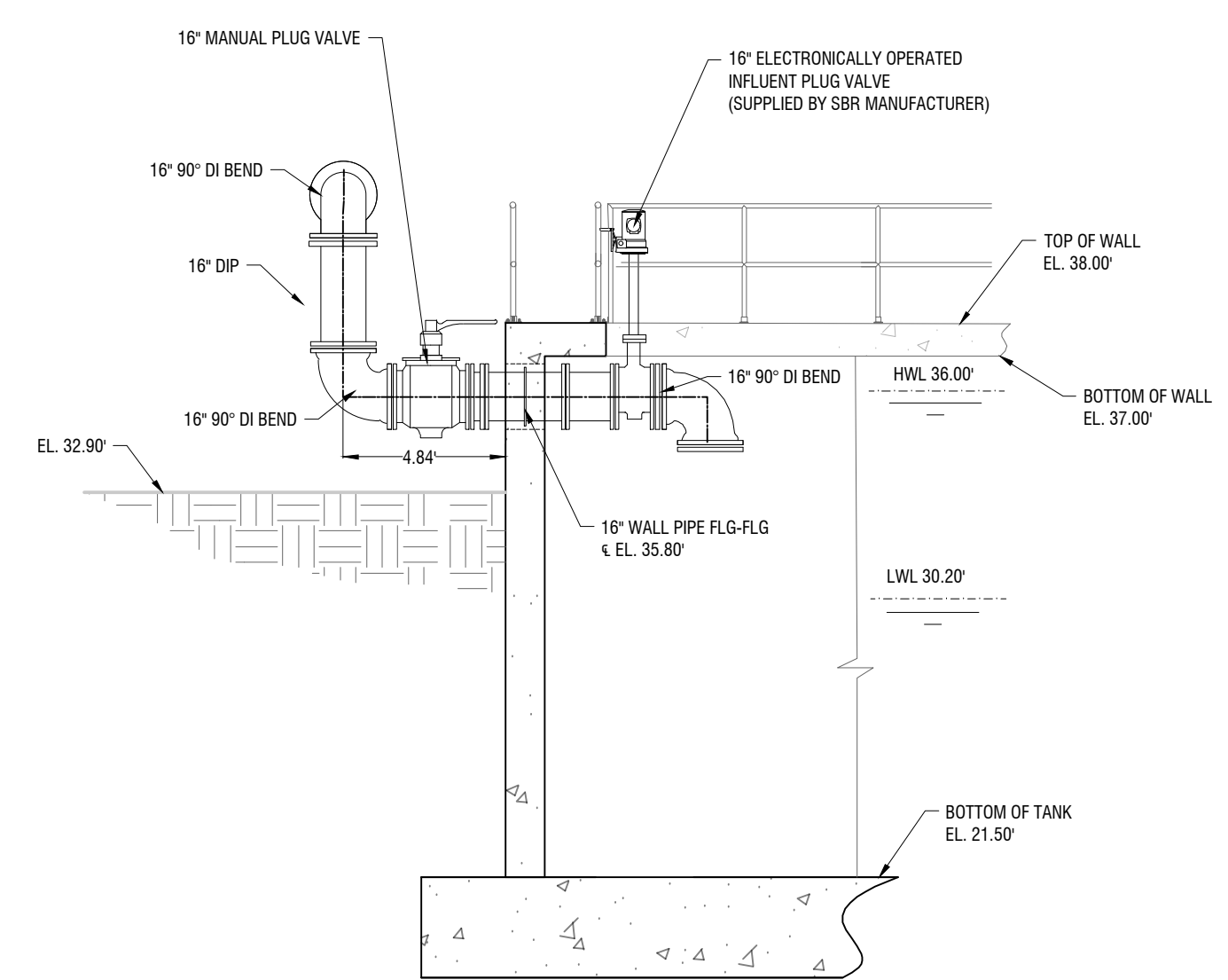
FILE NO: 2020-10 PRJ
 PLOT DATE: May 3, 2024



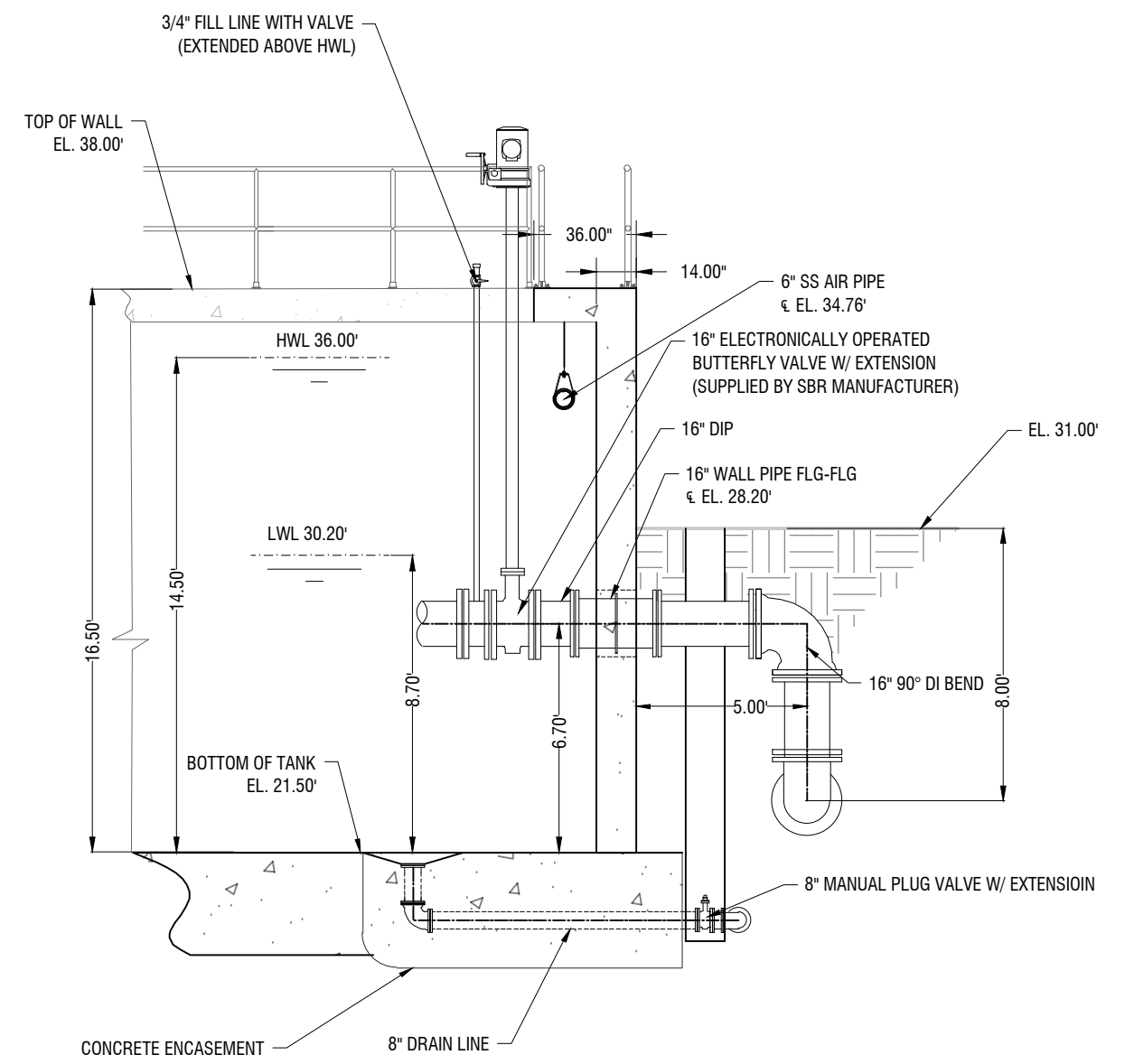
DECANTER DETAIL
SCALE 1"=5'



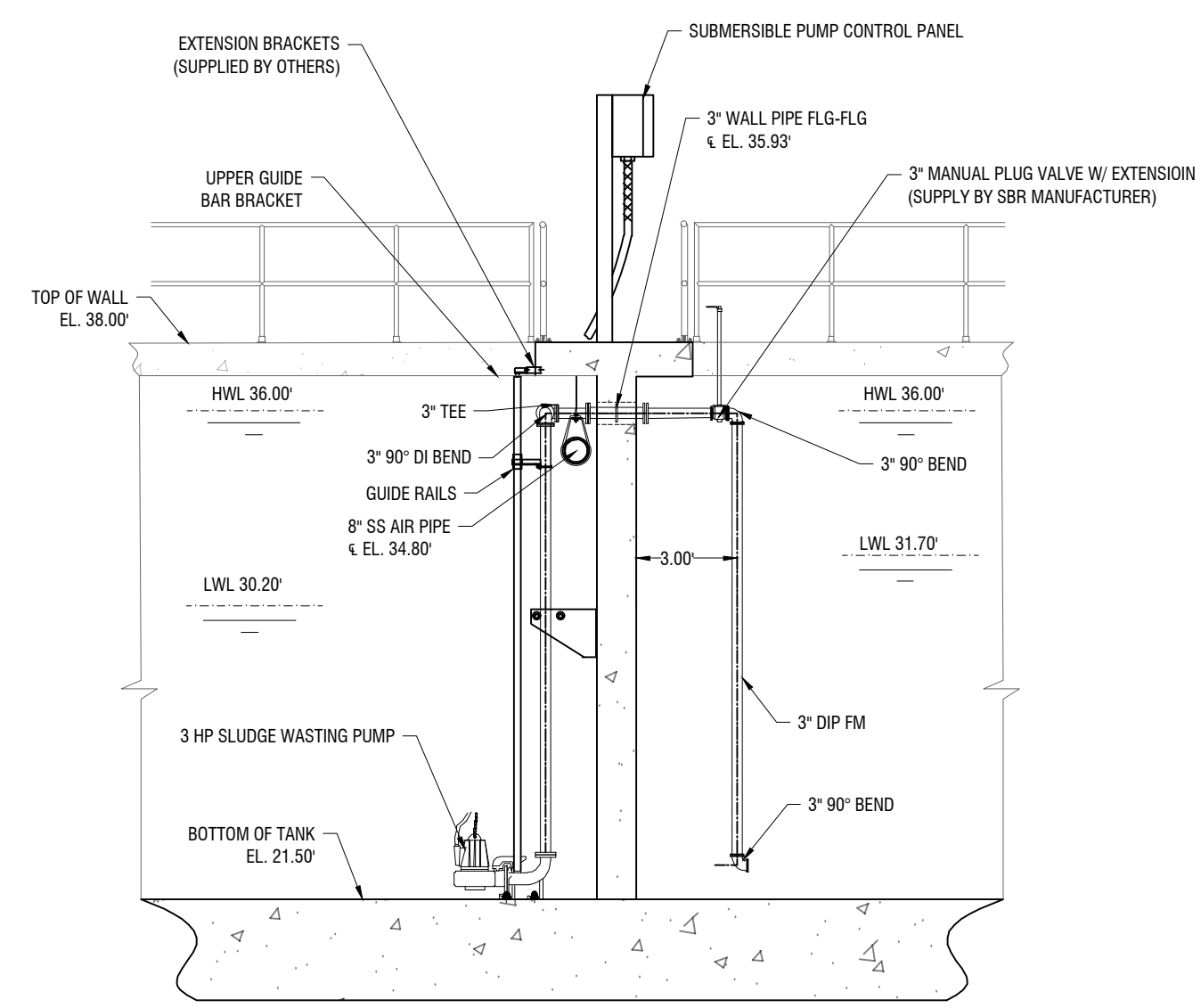
DECANTER PLAN VIEW
SCALE 1"=5'



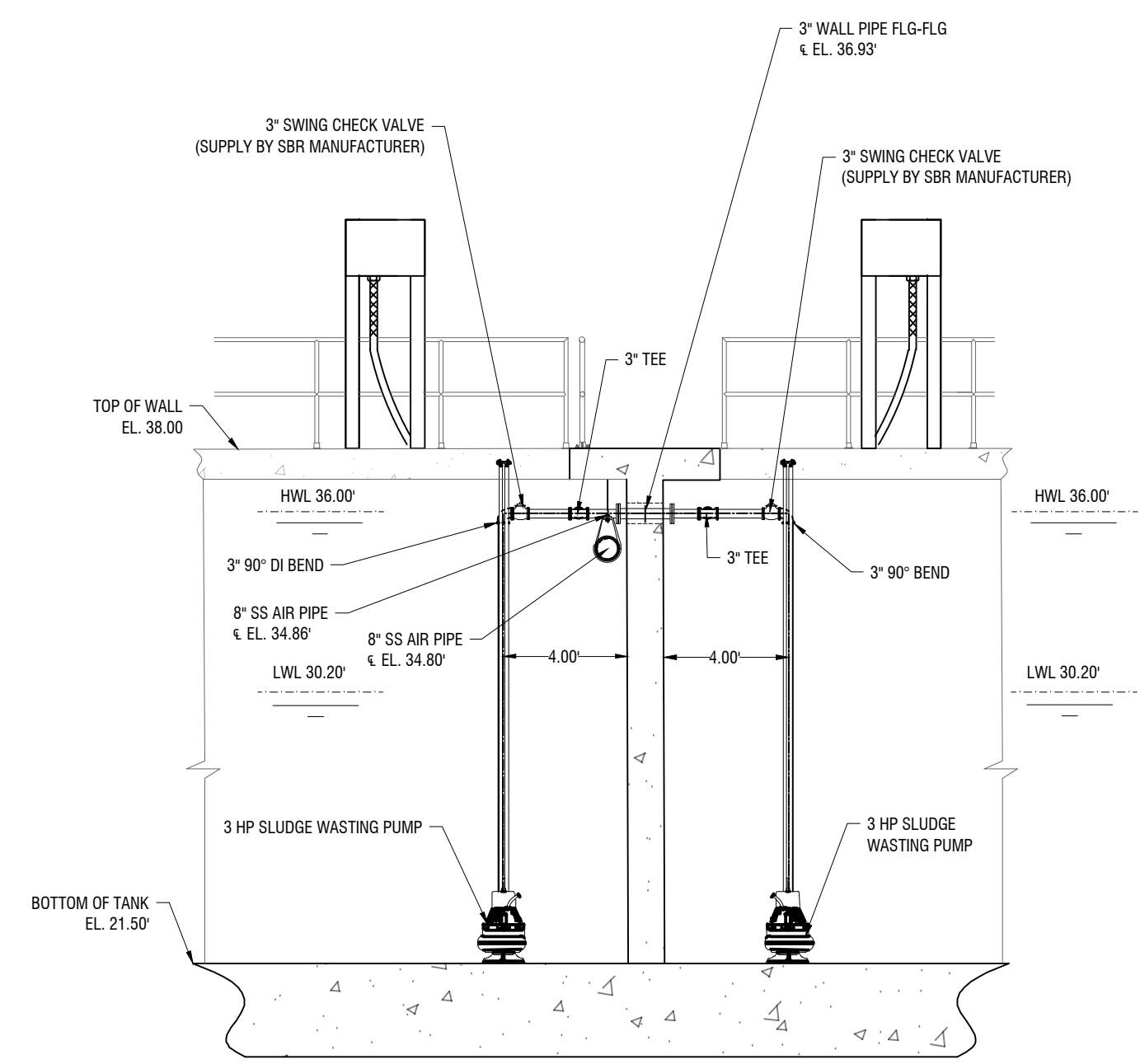
SBR SECTION A-A'
SCALE 1"=5'



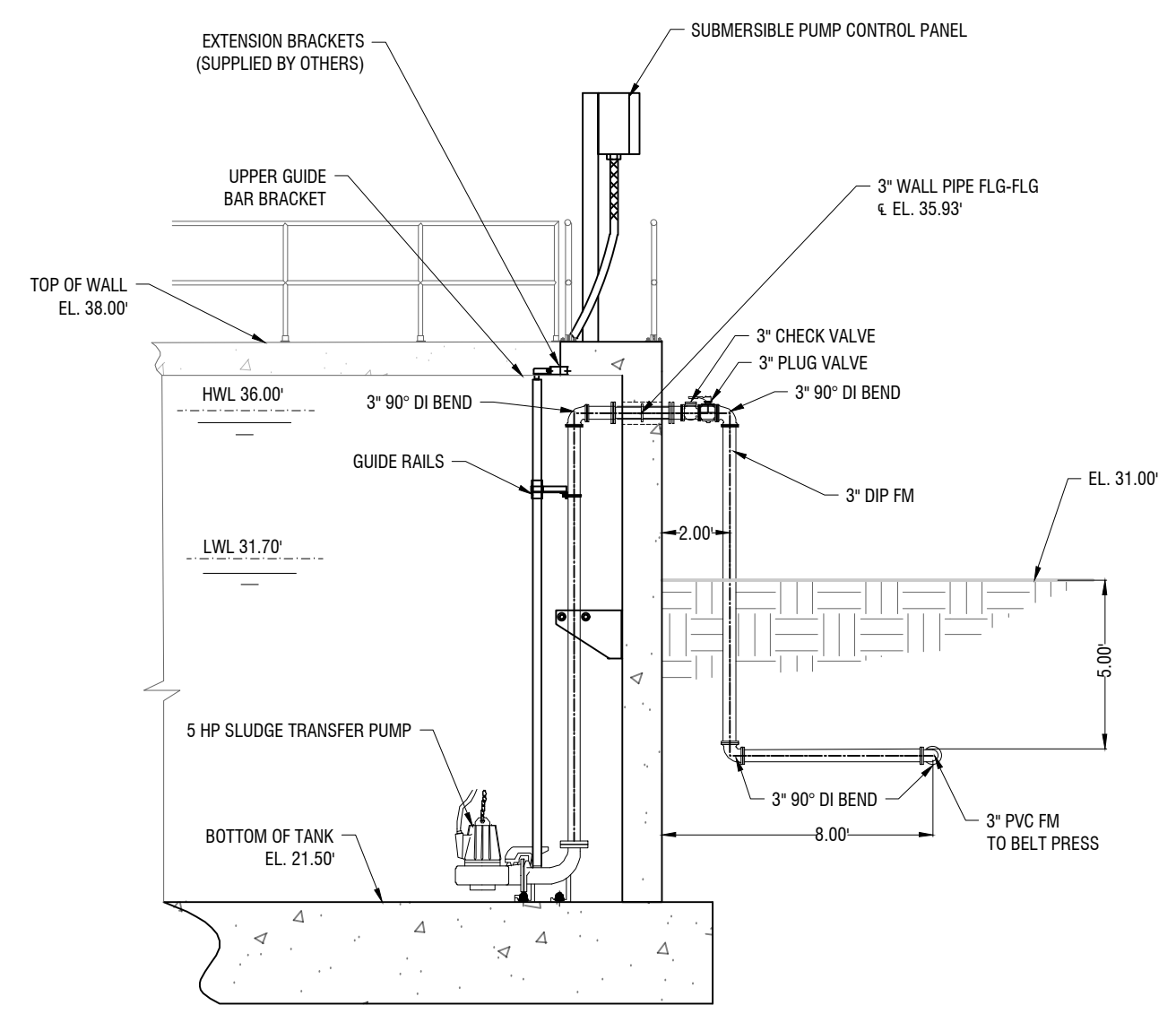
SBR SECTION B-B'
SCALE 1"=5'



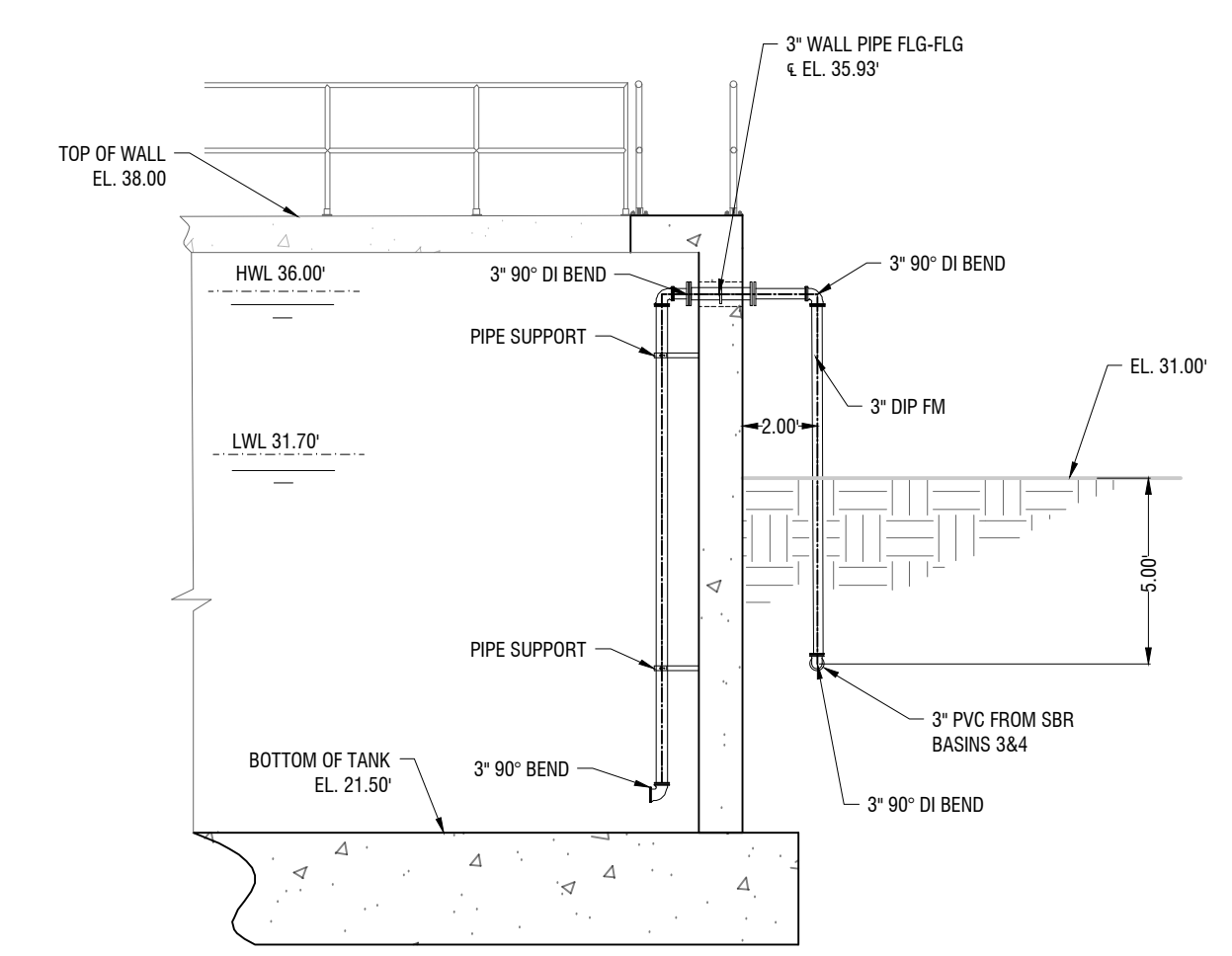
SBR SECTION C-C'
SCALE 1"=5'



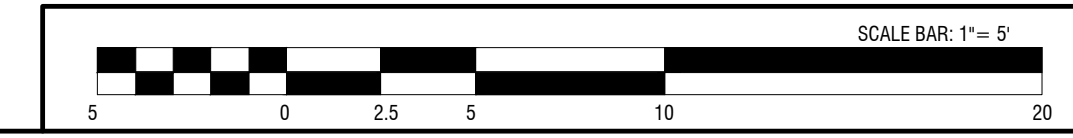
SBR SECTION D-D'
SCALE 1"=5'



SBR SECTION E-E'
SCALE 1"=5'



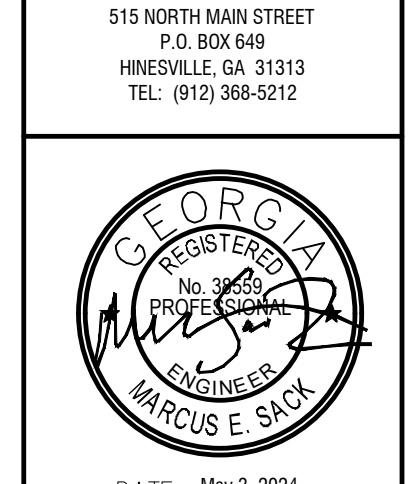
SBR SECTION F-F'
SCALE 1"=5'



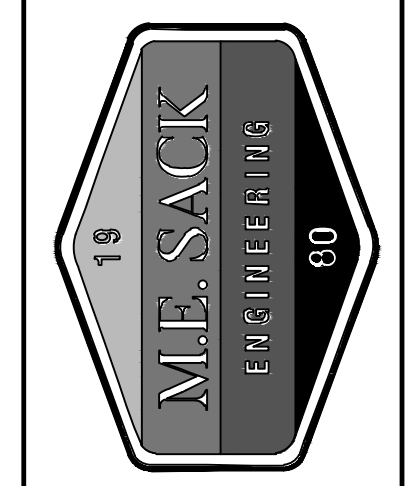
REVISIONS:	
1	MCC BUILDING
2	MCC BUILDING
3	GSWCC REVISION
4	EPD REVISION

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DATE: May 3, 2024



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WWTP Expansion

SBR SECTION VIEW BASINS 3&4

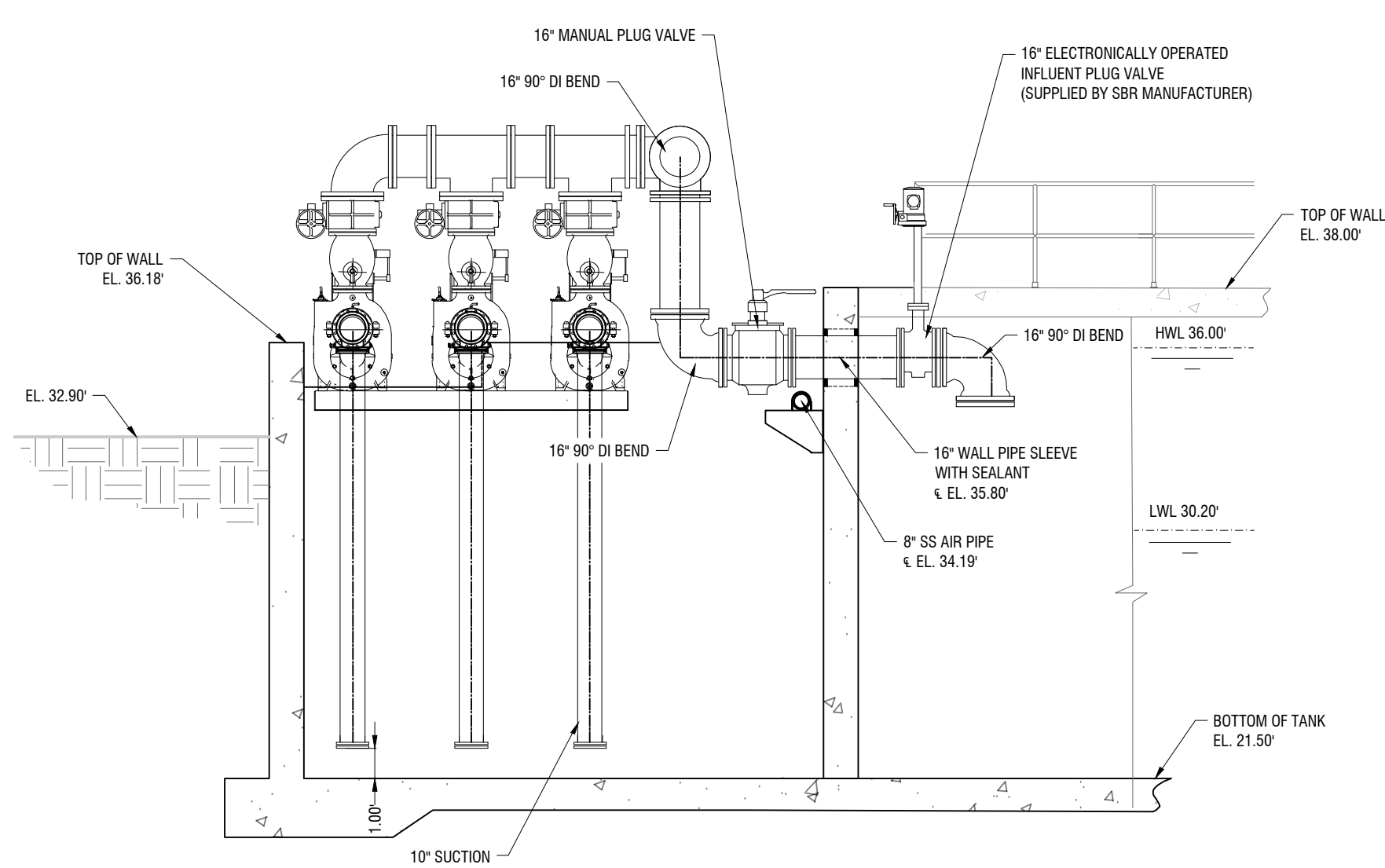
M9

FILE NO: 2020-10 PRJ
PLOT DATE: May 3, 2024

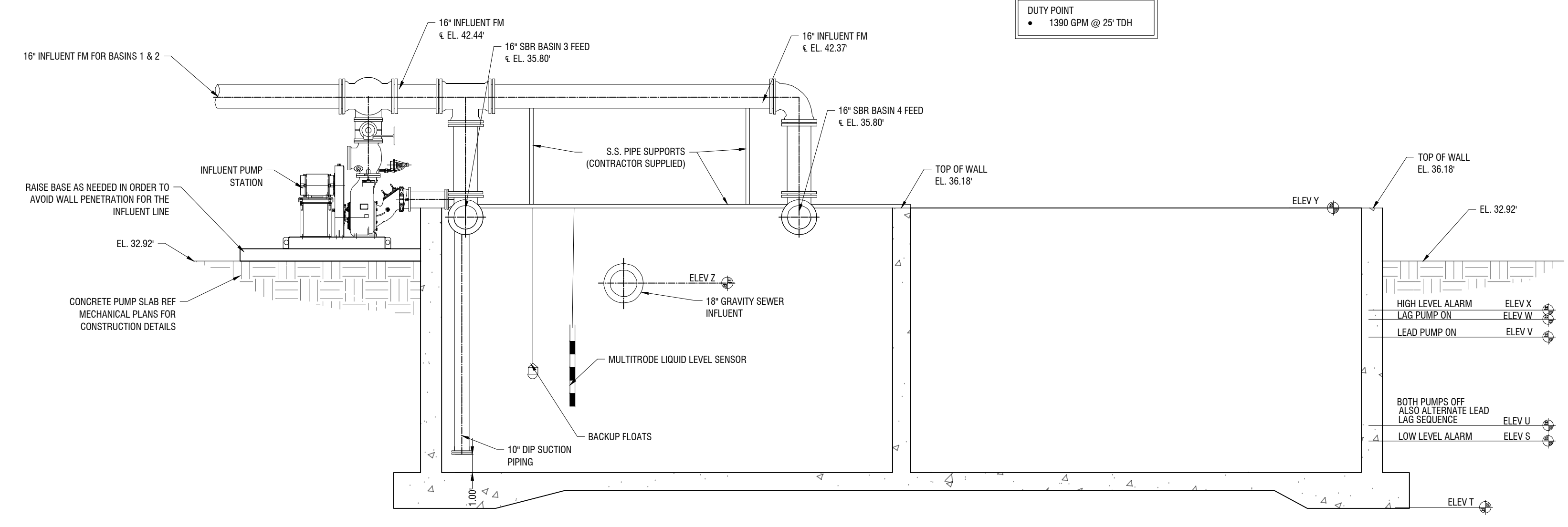
GENERAL NOTES:

- PUMPS SHALL BE GORMAN-RUPP T6A-B-4 12.38" DIAMETER OR APPROVED EQUAL AND 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.
- REFERENCE STRUCTURAL DRAWINGS FOR ALL STRUCTURAL DIMENSIONS AND DETAILS.

DUTY POINT
1300 GPM @ 25 TDH



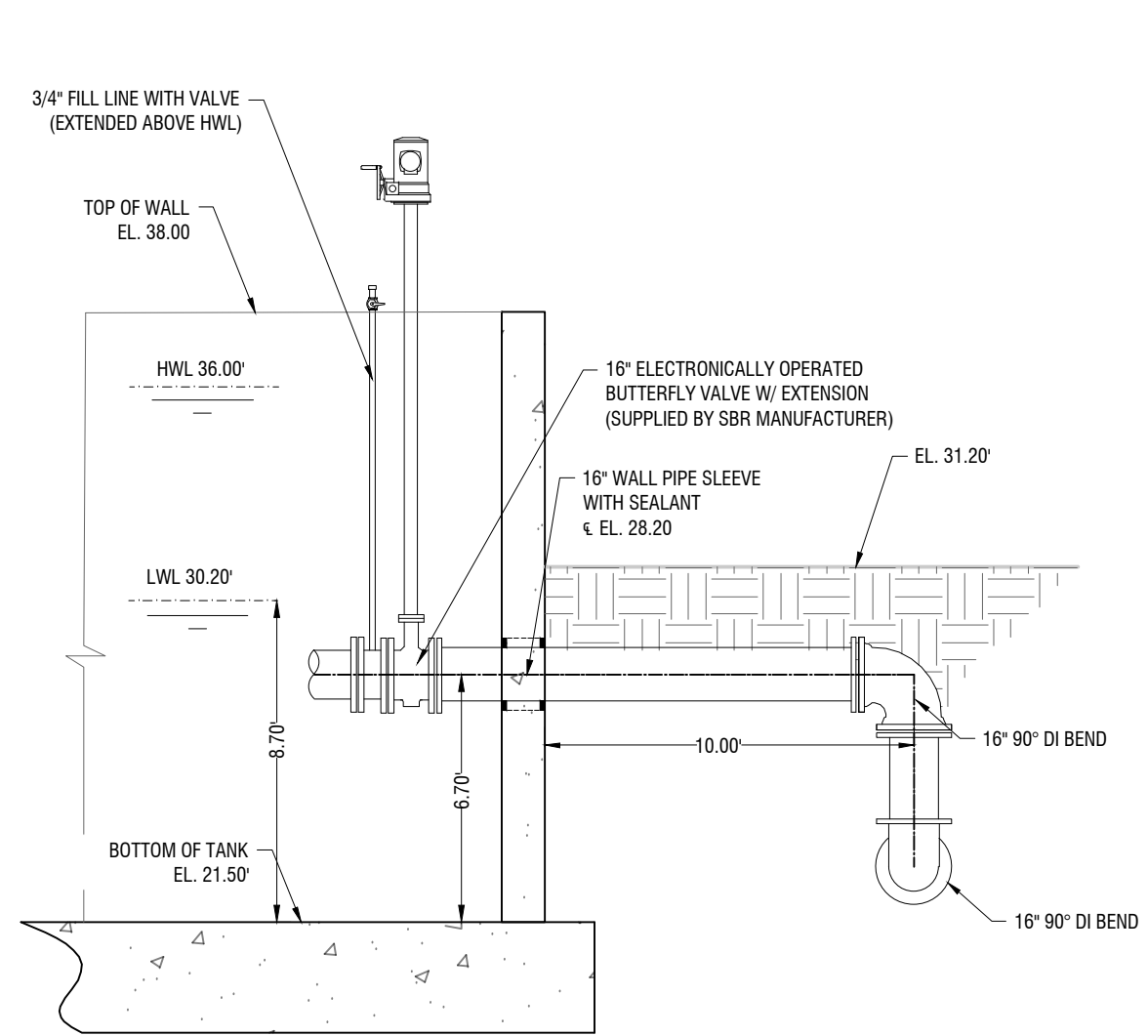
SBR SECTION G-G'
SCALE 1"=5'



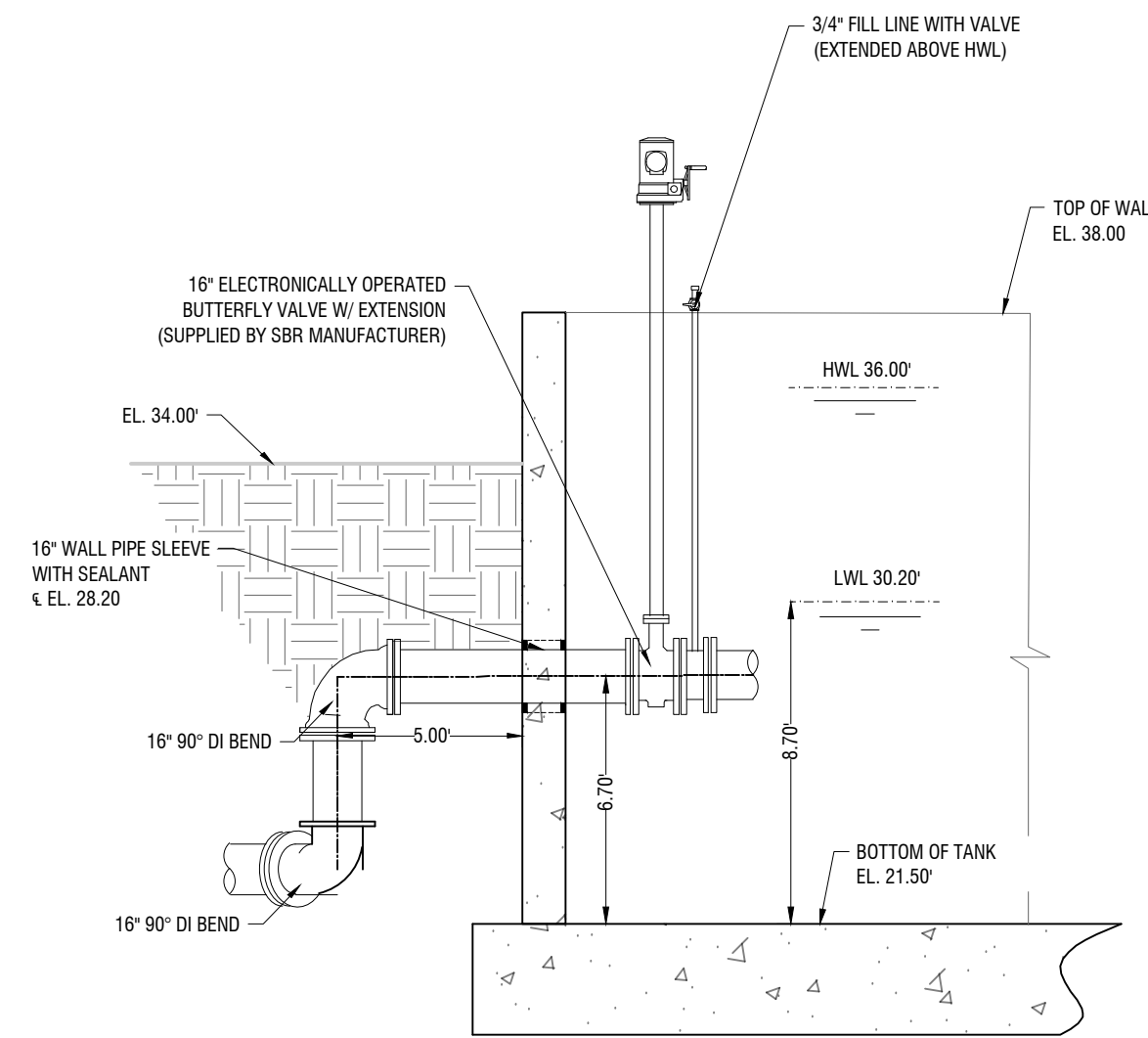
SBR SECTION H-H'
SCALE 1"=5'

LIFT STATION DATA

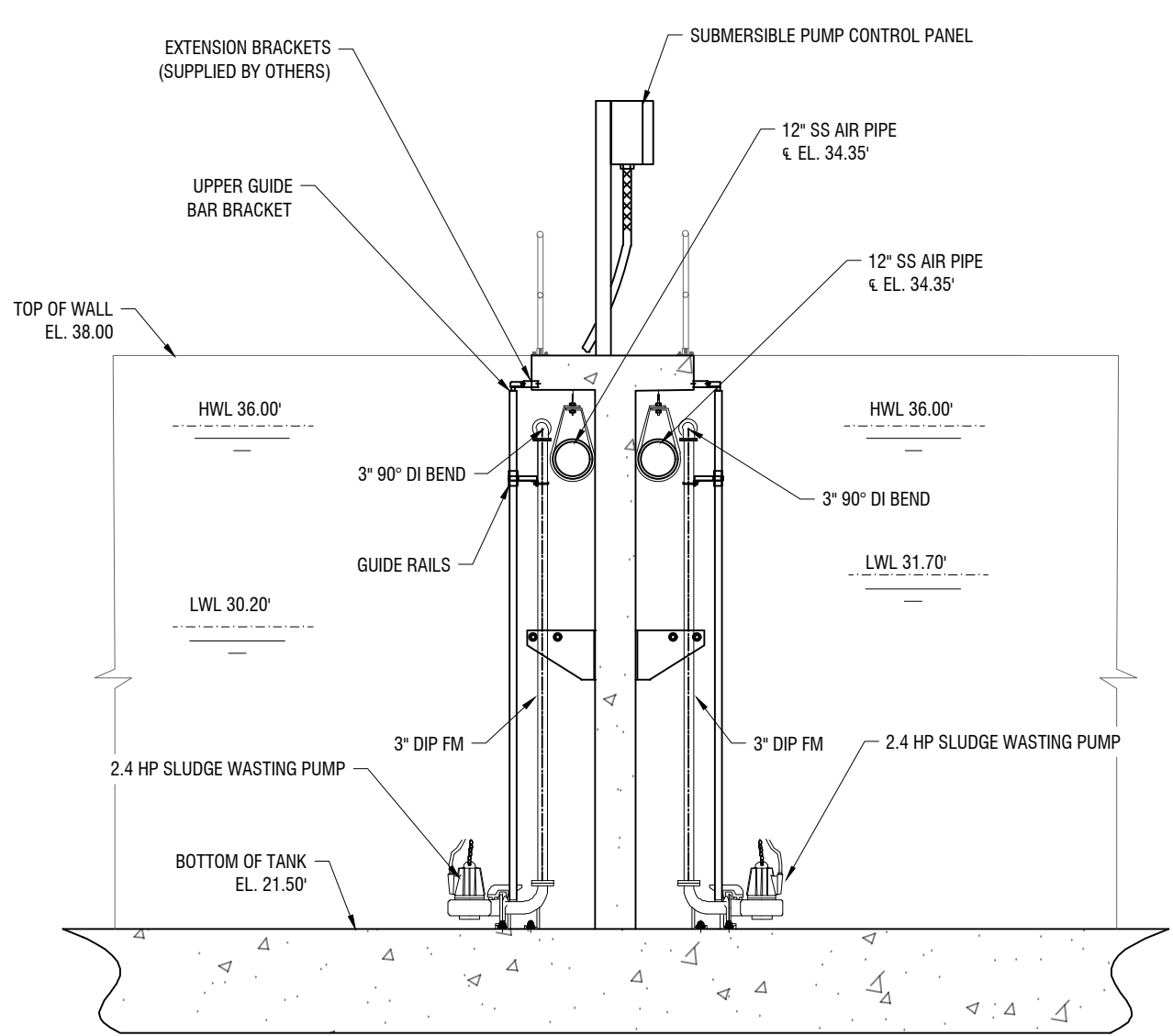
PUMPING STATIONS	ELEV AT CONST
ELEV S	23.25
ELEV T	21.50
ELEV U	24.00
ELEV V	29.00
ELEV W	30.00
ELEV X	30.50
ELEV Y	36.18
ELEV Z	32.00*



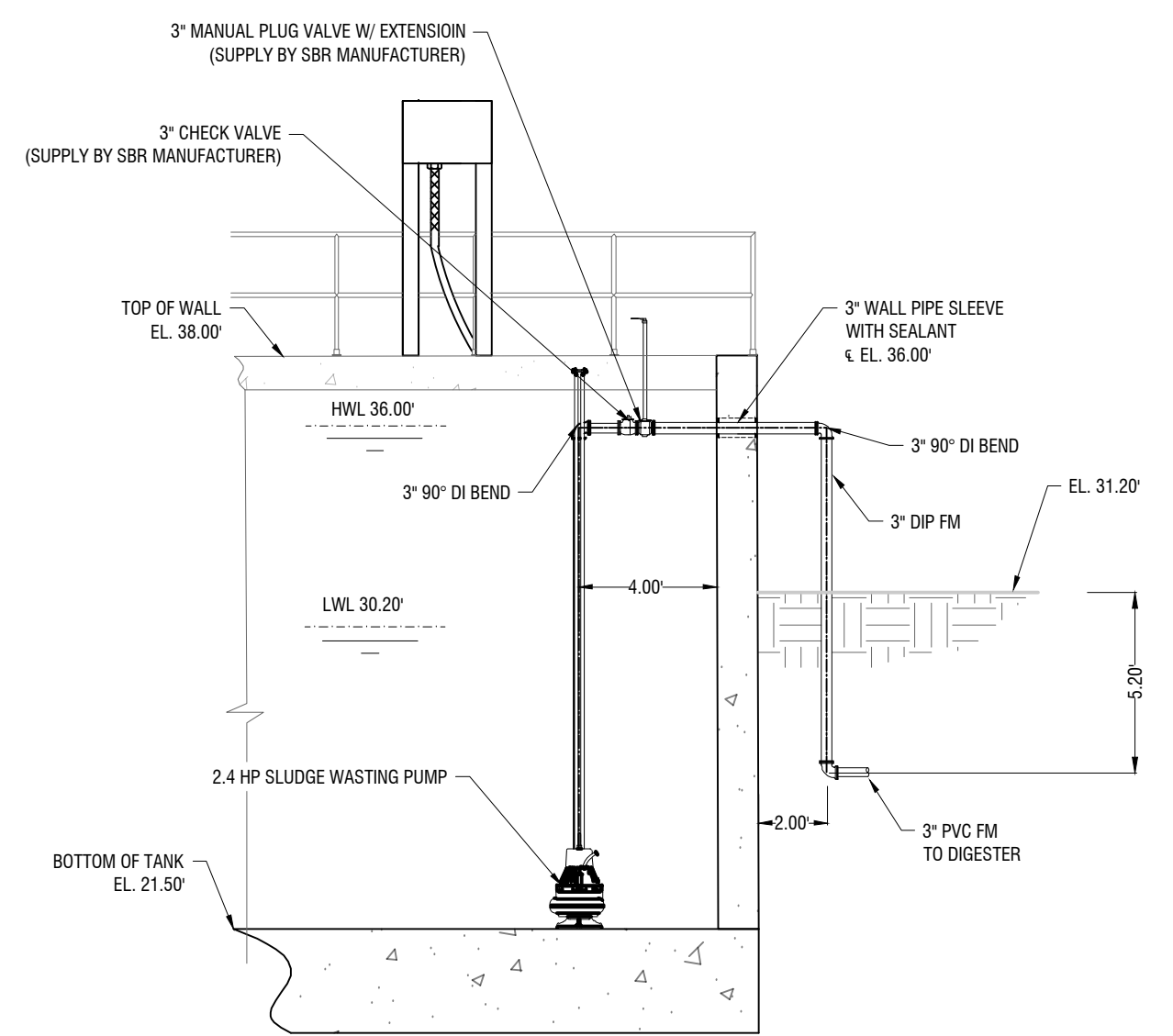
SBR SECTION I-I'
SCALE 1"=5'



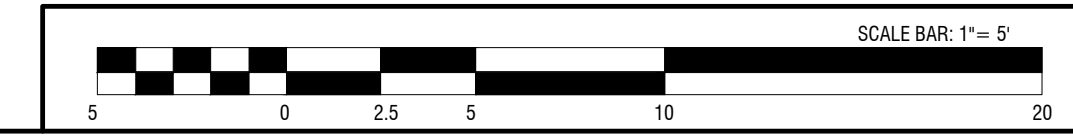
SBR SECTION J-J'
SCALE 1"=5'

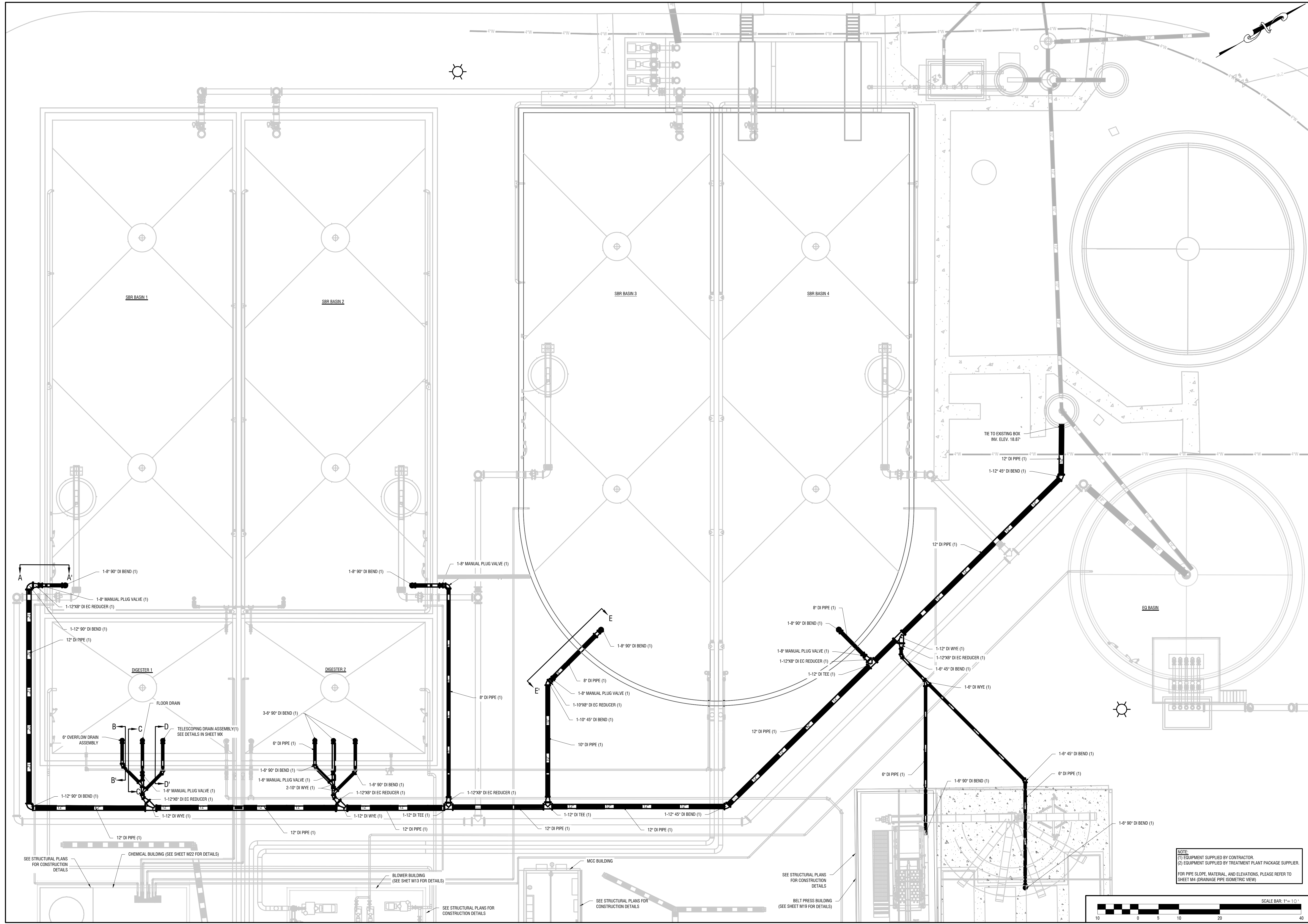


SBR SECTION K-K'
SCALE 1"=5'



SECTION L-L'
SCALE 1"=5'





REVISIONS:

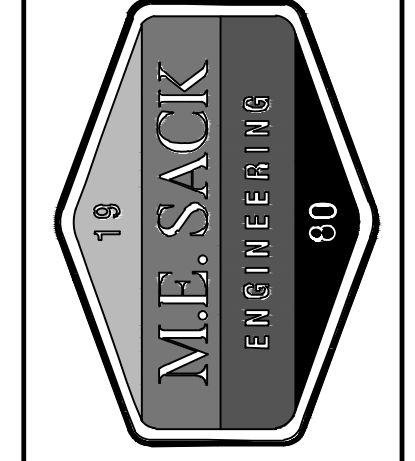
1	MCC BUILDING
2	MCC BUILDING
3	GSWCC REVISION
4	EPD REVISION

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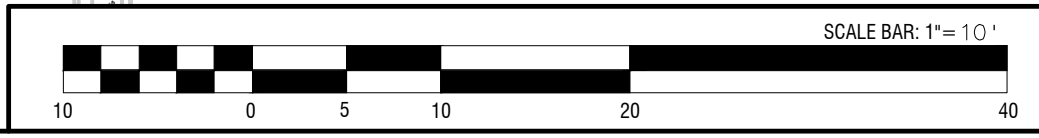
WWTP Expansion

SBR DRAINAGE PLAN VIEW

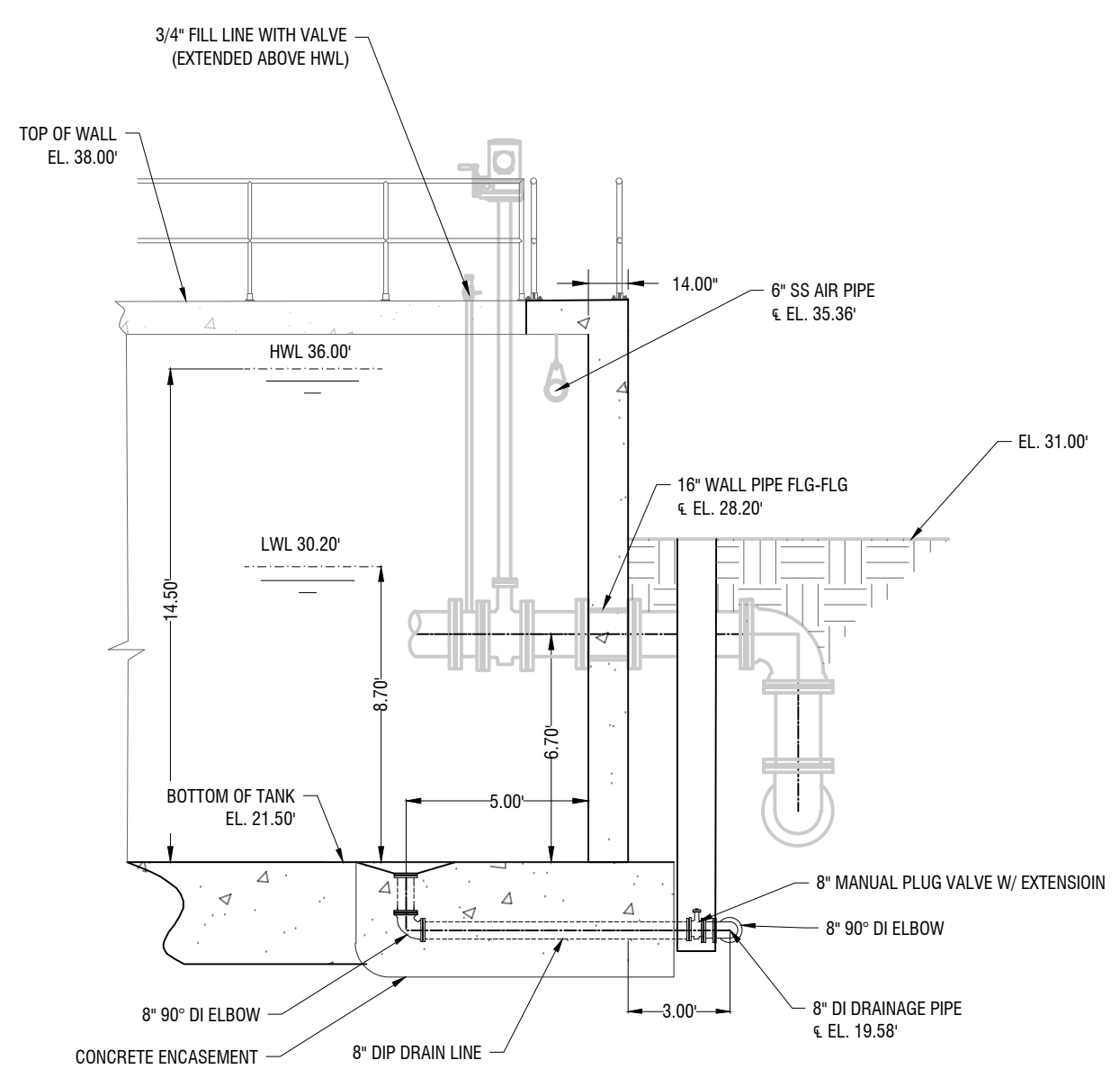
M10

FILE NO: 2020-10 PRJ
 PLOT DATE: May 3, 2024

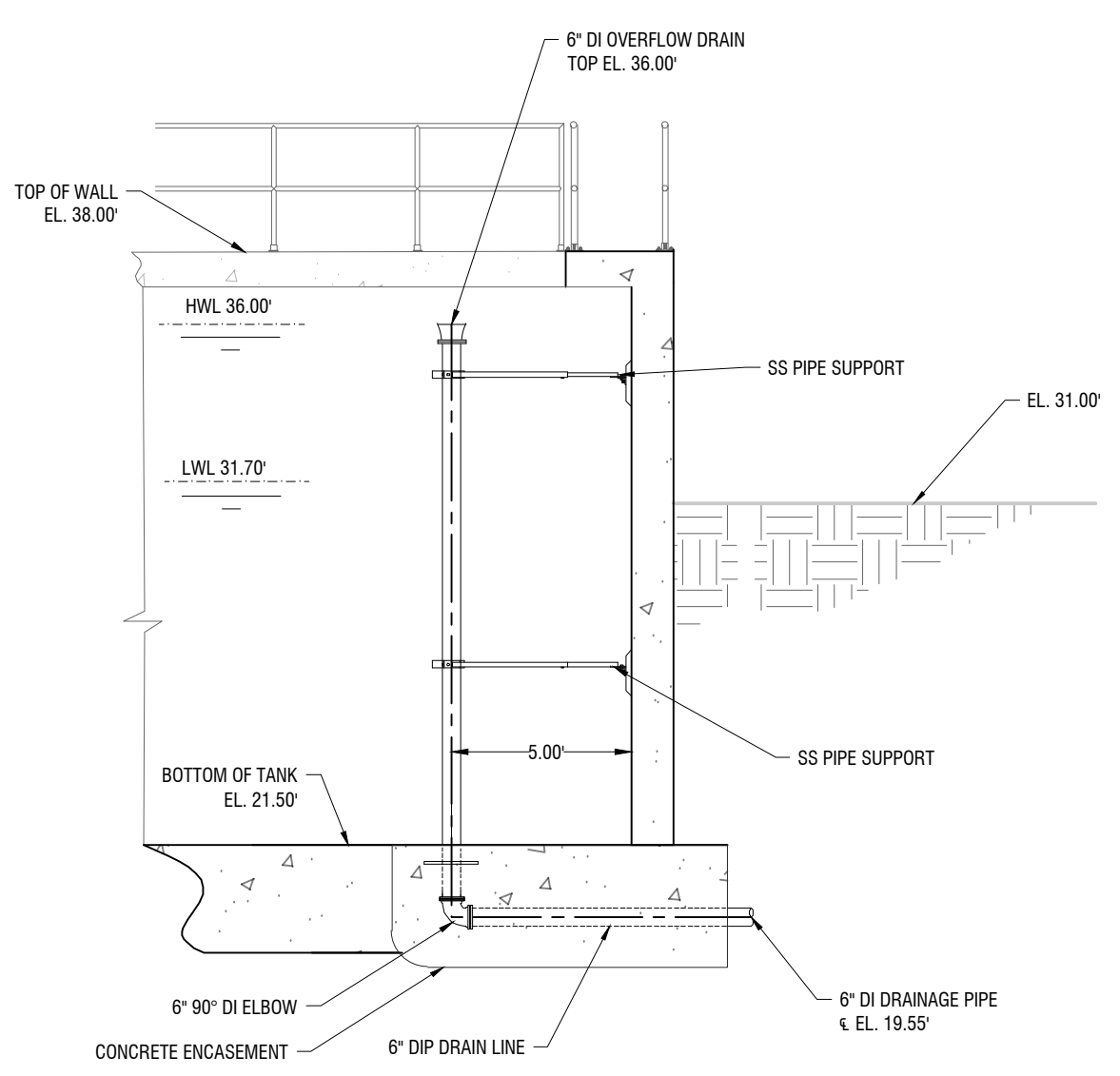
NOTE:
 (1) EQUIPMENT SUPPLIED BY CONTRACTOR.
 (2) EQUIPMENT SUPPLIED BY TREATMENT PLANT PACKAGE SUPPLIER.
 FOR PIPE SLOPE, MATERIAL, AND ELEVATIONS, PLEASE REFER TO SHEET M4 (DRAINAGE PIPE ISOMETRIC VIEW)



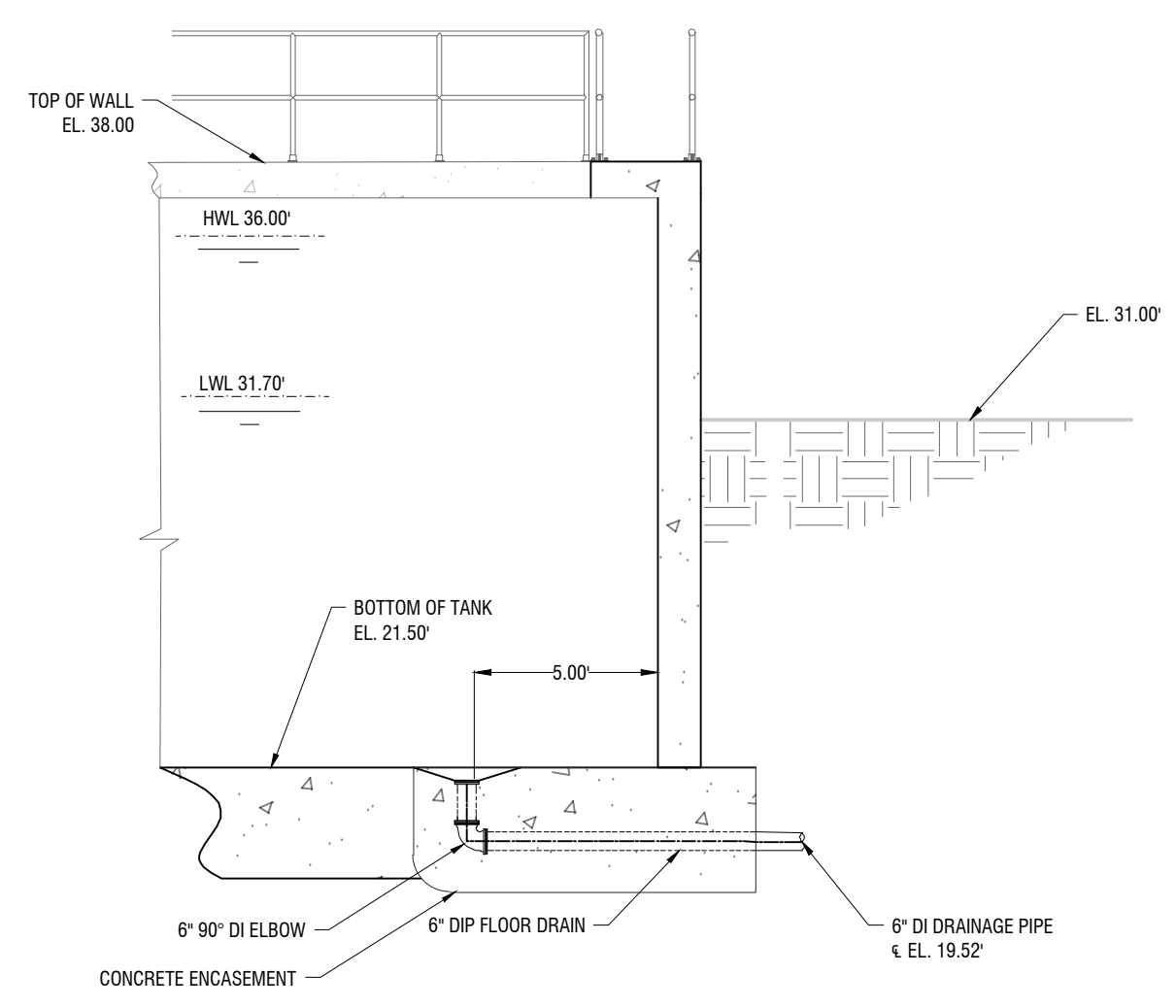
1-8" 90° DI BEND (1)
 1-8" MANUAL PLUG VALVE (1)
 1-12"X8" DI EC REDUCER (1)
 1-12" 90° DI BEND (1)
 12" DI PIPE (1)
 DIGESTER 1
 FLOOR DRAIN
 6" OVERFLOW DRAIN ASSEMBLY
 B
 C
 D
 TELESCOPING DRAIN ASSEMBLY(1)
 SEE DETAILS IN SHEET M4
 3-6" 90° DI BEND (1)
 6" DI PIPE (1)
 1-4" 90° DI BEND (1)
 1-6" MANUAL PLUG VALVE (1)
 2-10" DI WYE (1)
 1-6" 90° DI BEND (1)
 1-12"X8" DI EC REDUCER (1)
 1-12" DI WYE (1)
 1-12" DI TEE (1)
 12" DI PIPE (1)
 CHEMICAL BUILDING (SEE SHEET M22 FOR DETAILS)
 SEE STRUCTURAL PLANS FOR CONSTRUCTION DETAILS
 BLOWER BUILDING (SEE SHEET M13 FOR DETAILS)
 SEE STRUCTURAL PLANS FOR CONSTRUCTION DETAILS
 MCC BUILDING
 SEE STRUCTURAL PLANS FOR CONSTRUCTION DETAILS
 BELT PRESS BUILDING (SEE SHEET M19 FOR DETAILS)
 SEE STRUCTURAL PLANS FOR CONSTRUCTION DETAILS
 8" DI PIPE (1)
 1-8" 90° DI BEND (1)
 1-8" MANUAL PLUG VALVE (1)
 1-10"X8" DI EC REDUCER (1)
 1-10" 45° DI BEND (1)
 10" DI PIPE (1)
 12" DI PIPE (1)
 8" DI PIPE (1)
 1-8" 90° DI BEND (1)
 1-8" MANUAL PLUG VALVE (1)
 1-12"X8" DI EC REDUCER (1)
 1-12" DI TEE (1)
 1-12" 45° DI BEND (1)
 12" DI PIPE (1)
 12" DI PIPE (1)
 1-12" 90° DI BEND (1)
 1-8" 90° DI BEND (1)
 1-12" DI WYE (1)
 1-12"X8" DI EC REDUCER (1)
 1-6" 45° DI BEND (1)
 1-6" DI WYE (1)
 12" DI PIPE (1)
 6" DI PIPE (1)
 1-8" 90° DI BEND (1)
 8" DI PIPE (1)
 1-6" 90° DI BEND (1)
 EQ BASIN
 TIE TO EXISTING BOX
 INV. ELEV. 19.87'
 12" DI PIPE (1)
 1-12" 45° DI BEND (1)
 12" DI PIPE (1)
 1-12" 45° DI BEND (1)
 1-8" 90° DI BEND (1)
 1-8" 90° DI BEND (1)
 1-12" DI WYE (1)
 1-12"X8" DI EC REDUCER (1)
 1-6" 45° DI BEND (1)
 1-6" DI WYE (1)
 12" DI PIPE (1)
 6" DI PIPE (1)
 1-8" 90° DI BEND (1)
 8" DI PIPE (1)
 1-6" 90° DI BEND (1)



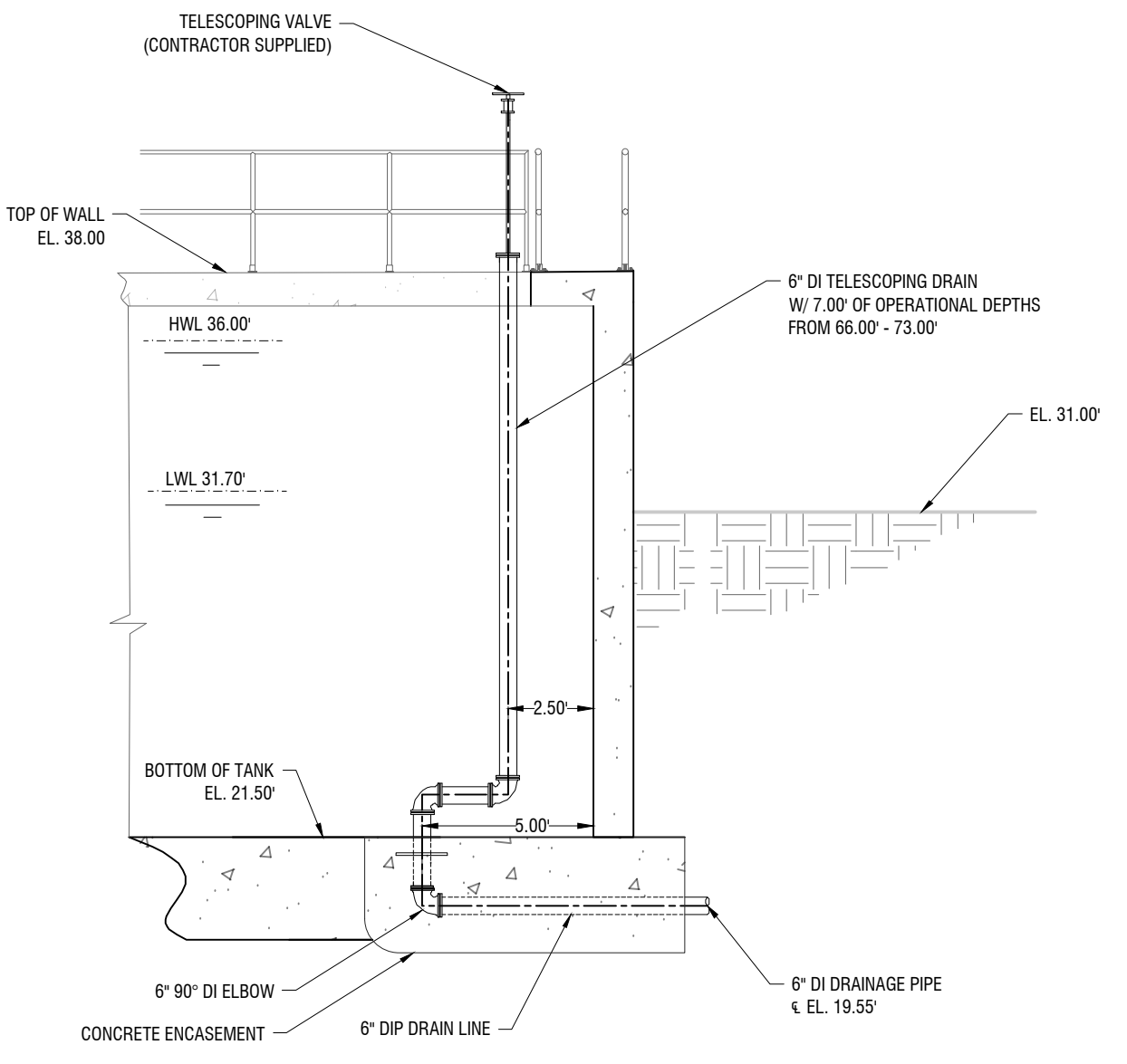
**DRAINAGE PLAN
SECTION A-A'**
SCALE 1"=5'



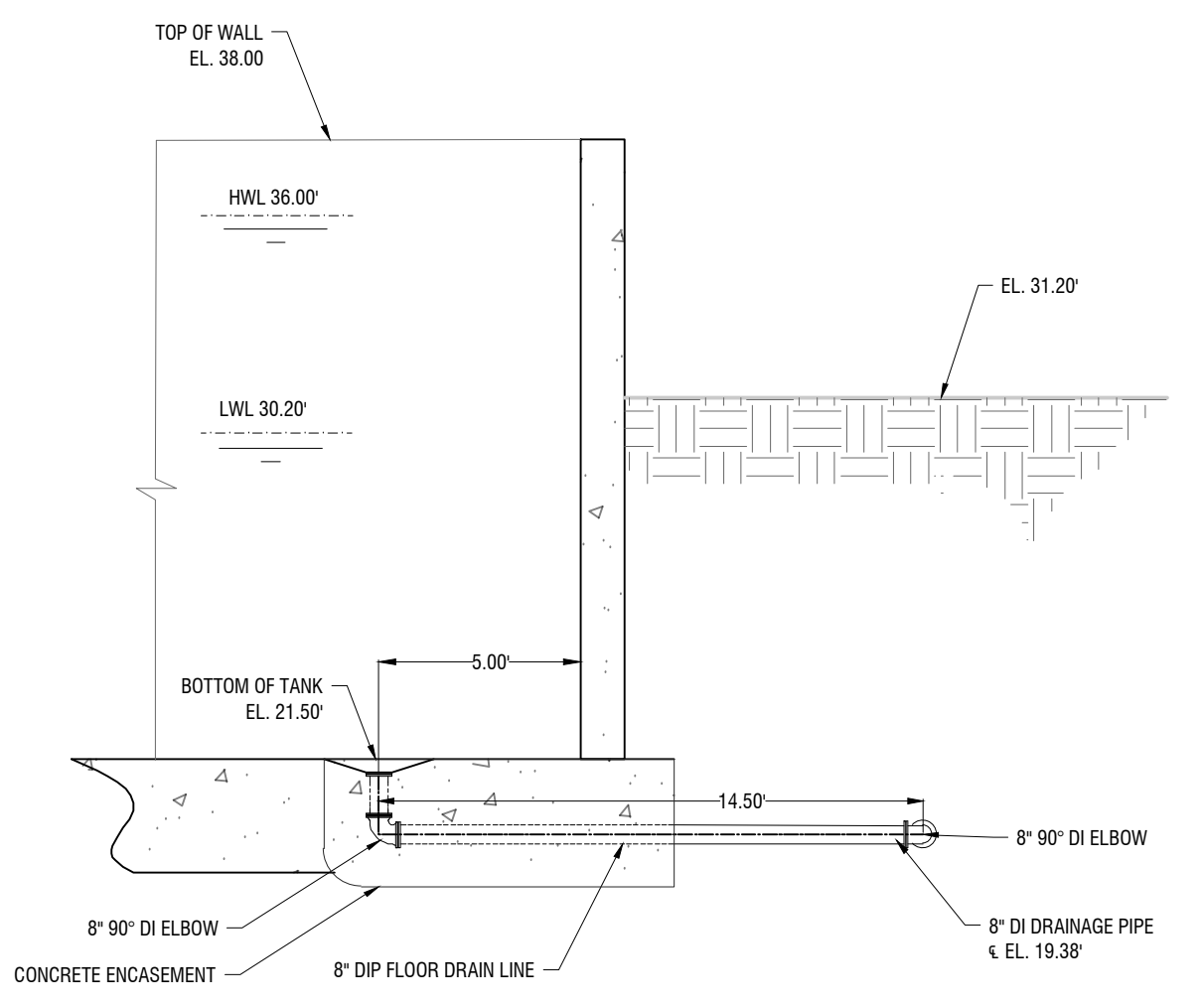
**DRAINAGE PLAN
SECTION B-B'**
SCALE 1"=5'



**DRAINAGE PLAN
SECTION C-C'**
SCALE 1"=5'



**DRAINAGE PLAN
SECTION D-D'**
SCALE 1"=5'



**DRAINAGE PLAN
SECTION E-E'**
SCALE 1"=5'

REVISIONS:	
1	MCC BUILDING
2	MCC BUILDING
3	GSWCC REVISION
4	EPD REVISION

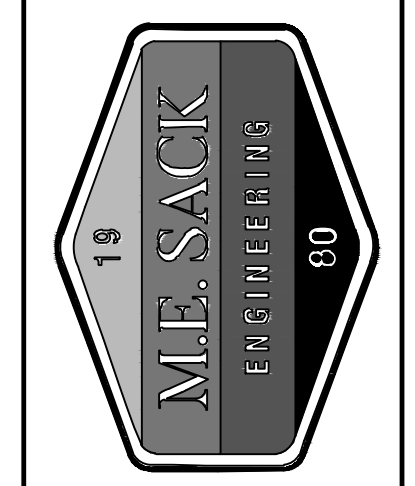
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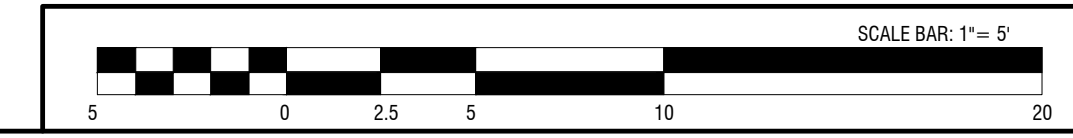
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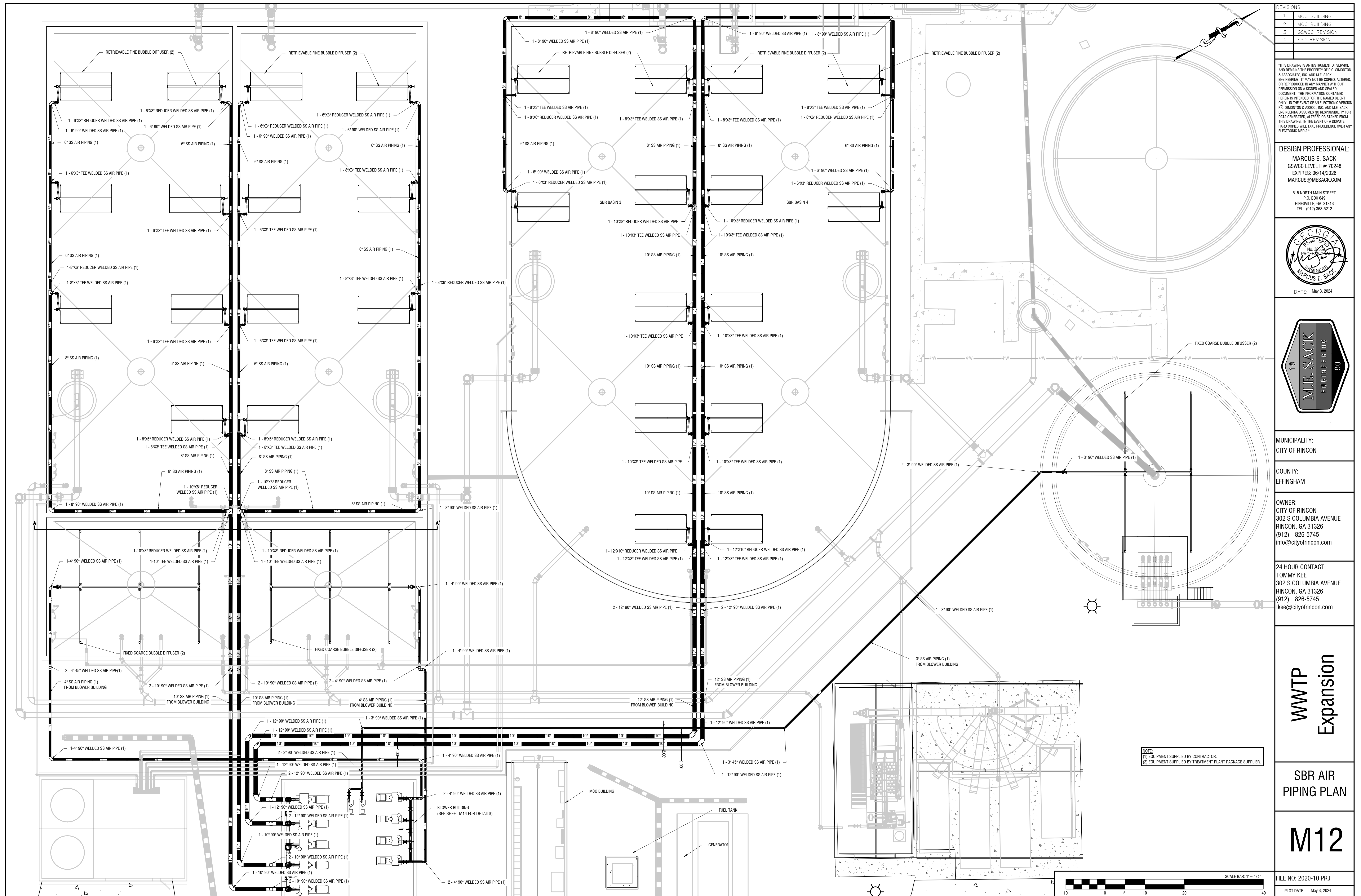
**WWTP
Expansion**

**SBR DRAINAGE
SECTION VIEW**

M11

FILE NO: 2020-10 PRJ
PLOT DATE: May 3, 2024



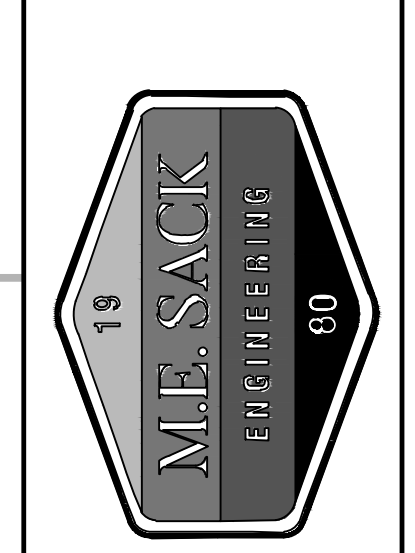
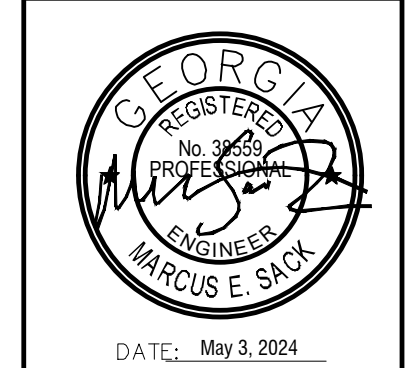


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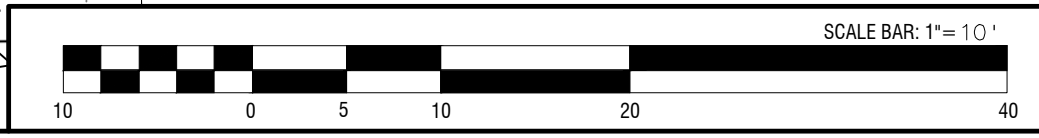
WWTP Expansion

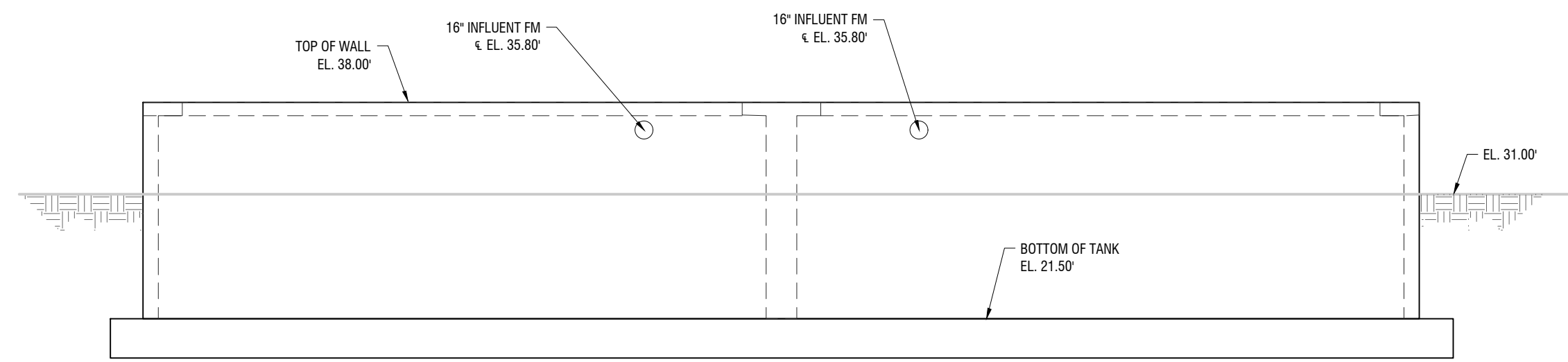
SBR AIR PIPING PLAN

M12

FILE NO: 2020-10 PRJ
 PLOT DATE: May 3, 2024

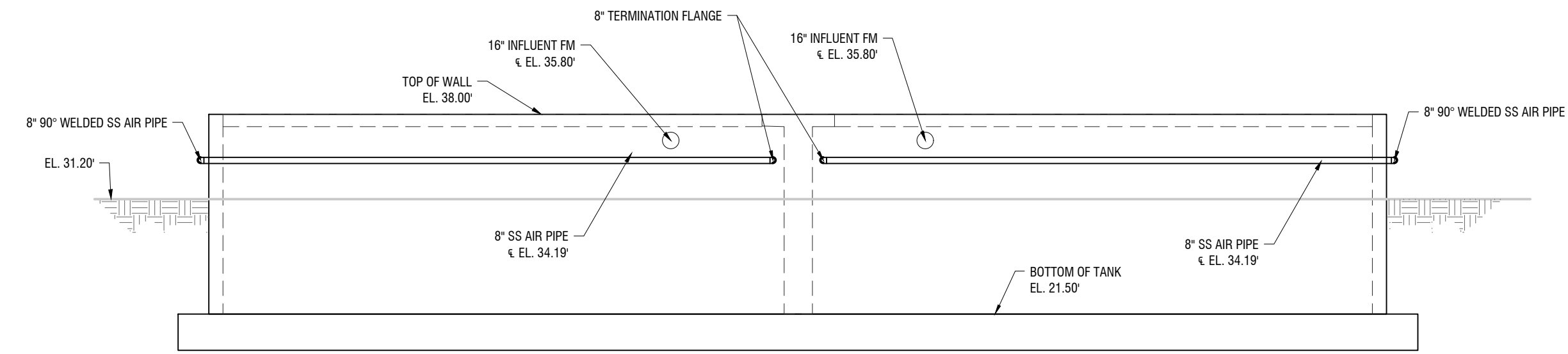
NOTE:
 (1) EQUIPMENT SUPPLIED BY CONTRACTOR
 (2) EQUIPMENT SUPPLIED BY TREATMENT PLANT PACKAGE SUPPLIER





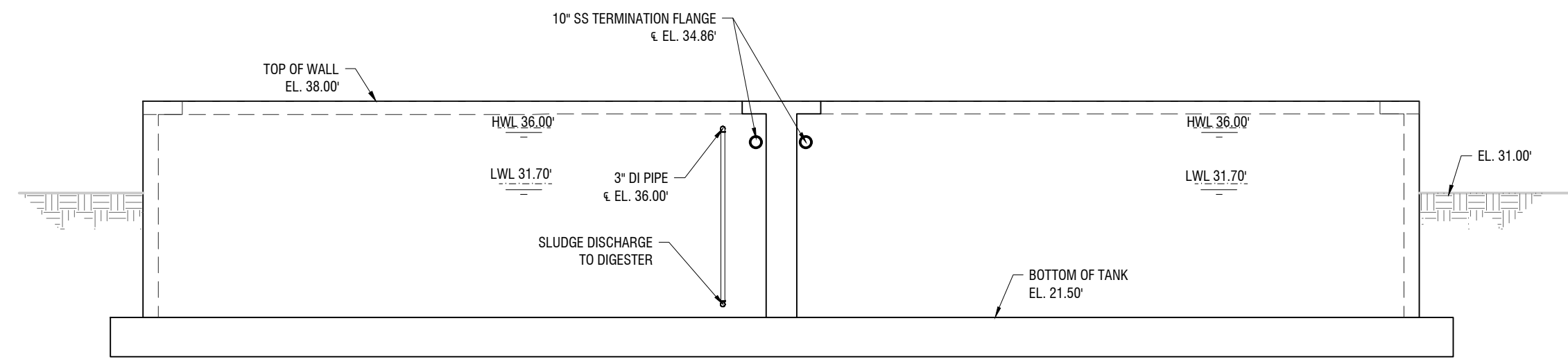
BASIN 1 & 2 NORTH WEST ELEVATION

SCALE 1"=10'



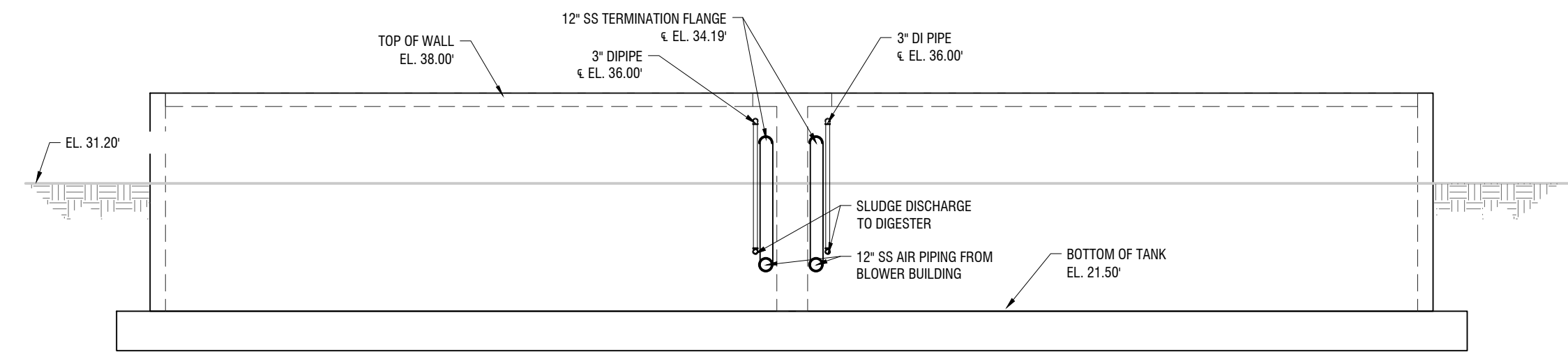
BASIN 3 & 4 NORTH WEST ELEVATION

SCALE 1"=10'



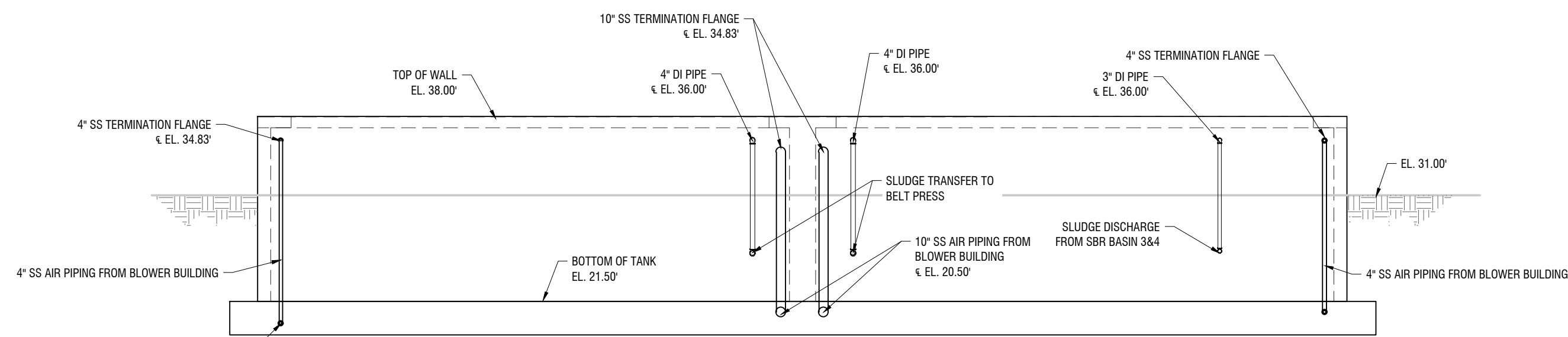
BASIN 1 & 2 CROSS SECTION A-A'

SCALE 1"=10'



BASIN 3 & 4 SOUTH EAST ELEVATION

SCALE 1"=10'



BASIN 1 & 2 SOUTH EAST ELEVATION

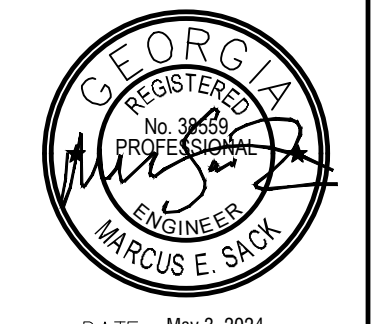
SCALE 1"=10'

REVISIONS:	
1	MCC BUILDING
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4	EPD REVISION

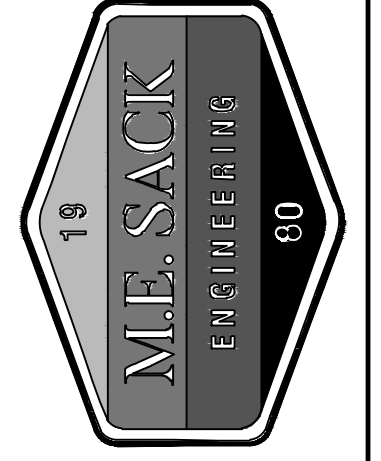
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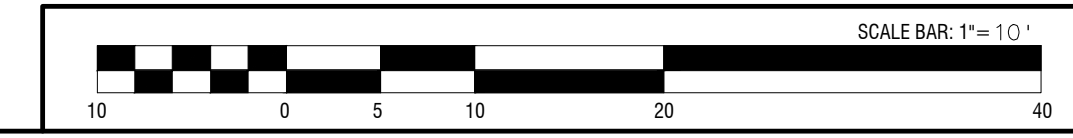
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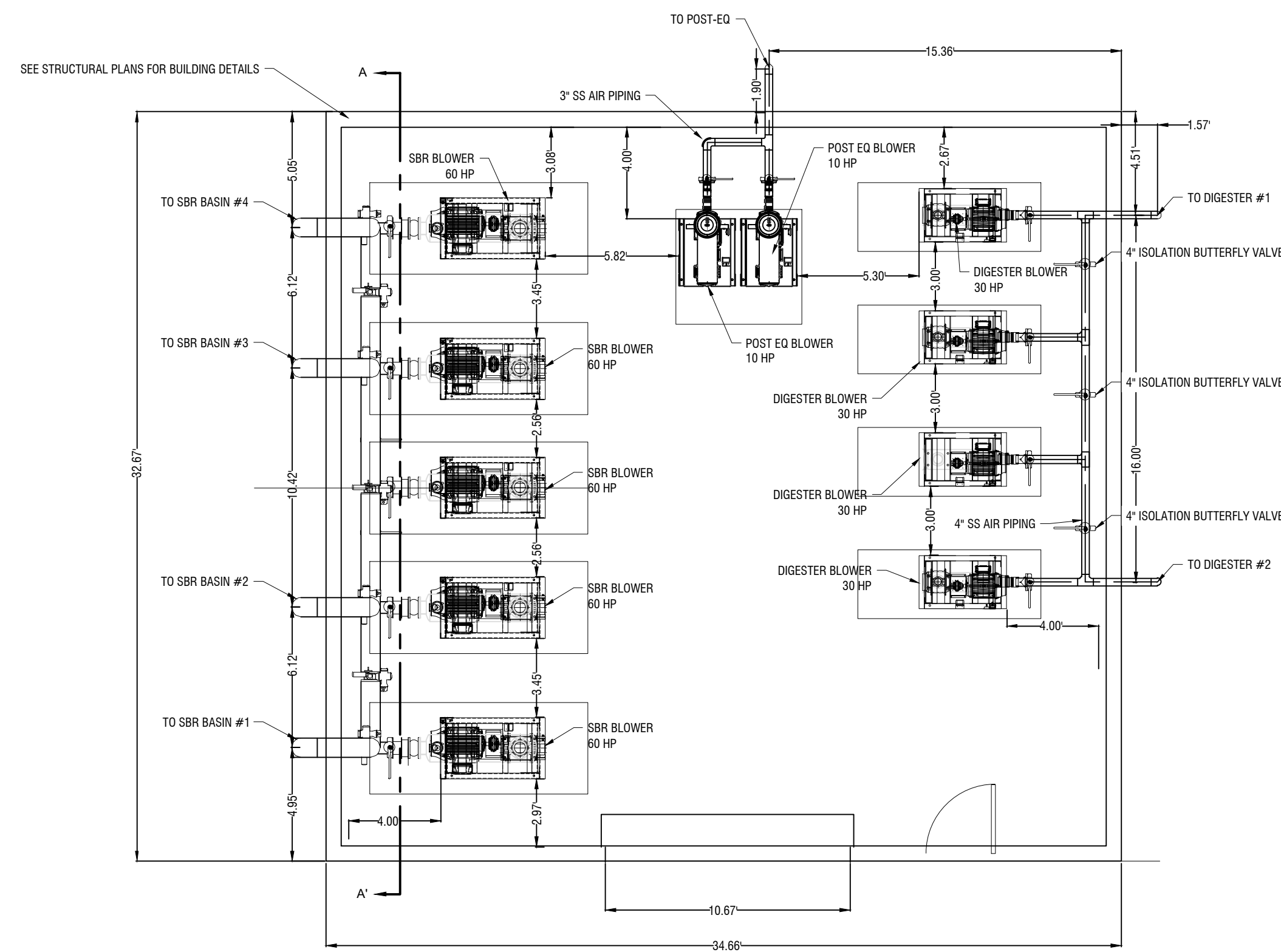
**WWTP
Expansion**

**SBR AIR PIPING
PROFILE**

M13



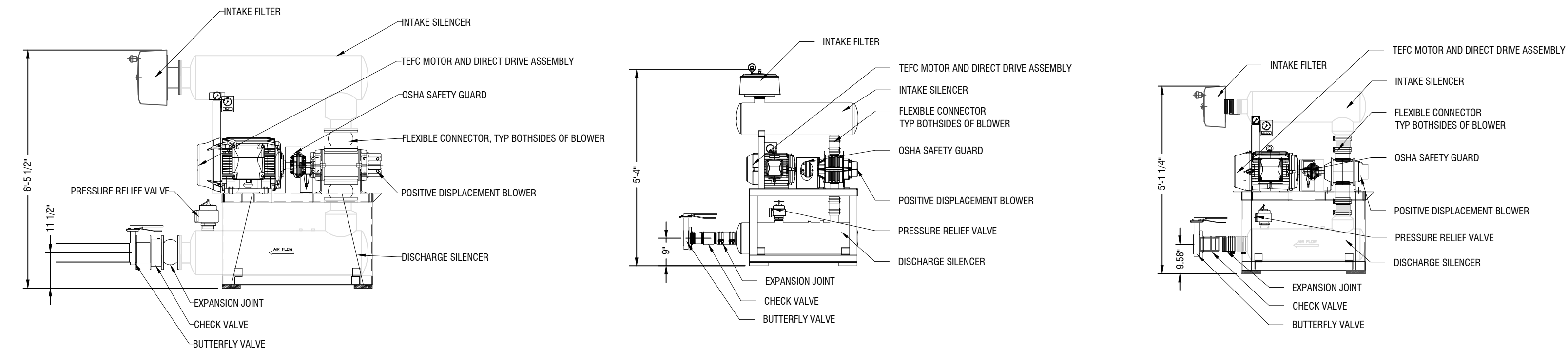
FILE NO: 2020-10 PRJ
 PLOT DATE: May 3, 2024



PLAN VIEW
SCALE 1"=5'

AIR PIPING NOTES:

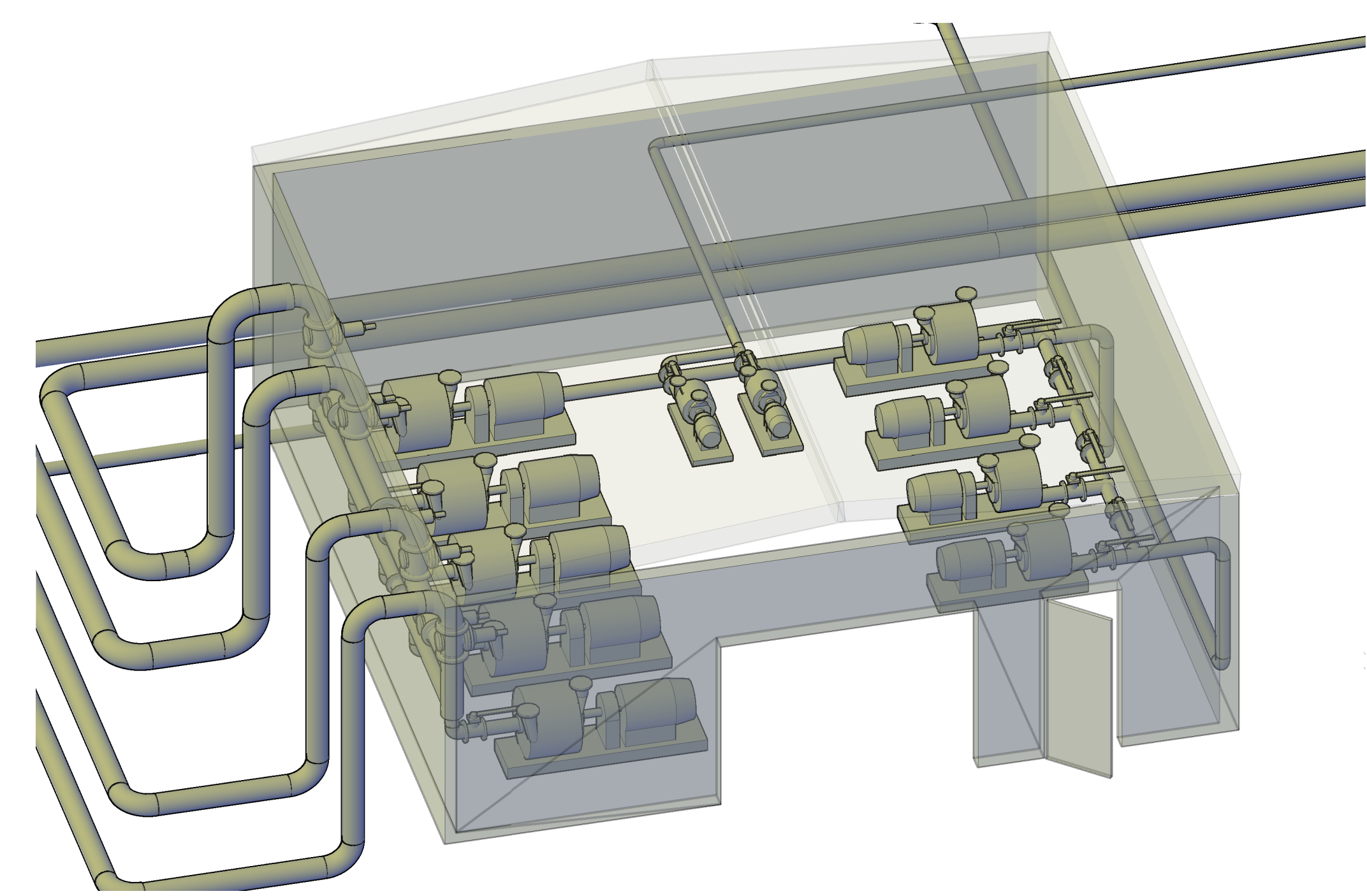
- AIR PIPING - SCHEDULE 10S STAINLESS STEEL
- FLANGES - 304 STAINLESS STEEL, 150# CLASS WITH NEOPRENE GASKET
- ALL AIR PIPING BELOW 8" MEASURED FROM FIN FLOOR WILL BE INSULATED WITH 3" INSULATION
- REAM ALL PIPE ENDS AND REMOVE BURRS.
- REMOVE SCALE AND DIRT, ON INSIDE AND OUTSIDE BEFORE ASSEMBLY.
- 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:
RESISTOFLEX # R6905-048WS3 - CONVOLUTE EXPANSION JOINT EVERY 25' FOR 3"
RESISTOFLEX # R6906-090WS3 - CONVOLUTE EXPANSION JOINT EVERY 40' FOR 6"
RESISTOFLEX # R6906-128WS3 - CONVOLUTE EXPANSION JOINT EVERY 40' FOR 8"
RESISTOFLEX # R6906-128WS5 - CONVOLUTE EXPANSION JOINT EVERY 40' FOR 10"



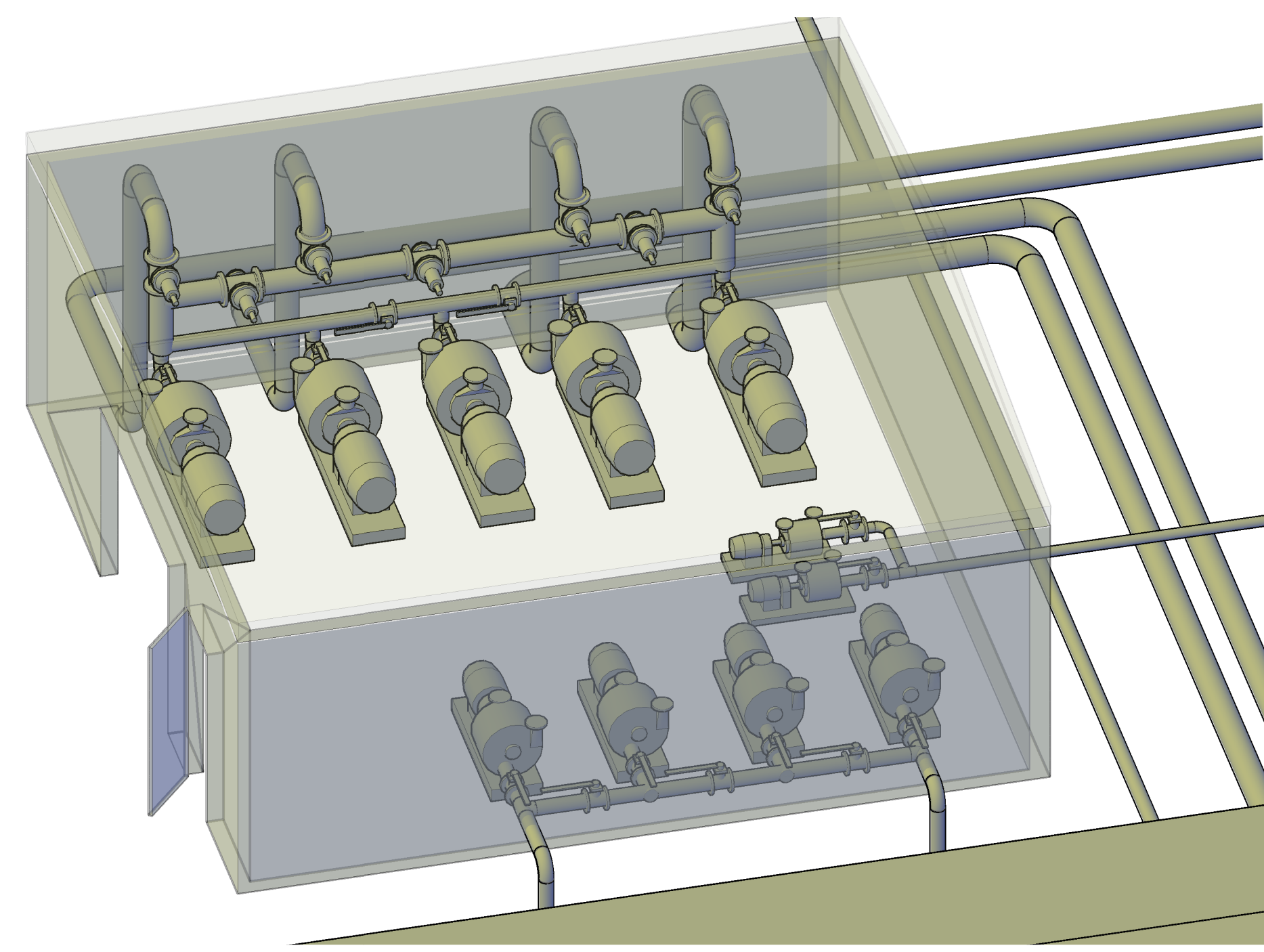
SBR BLOWER
SCALE 1"=30"

POST-EQ BLOWER
SCALE 1"=30"

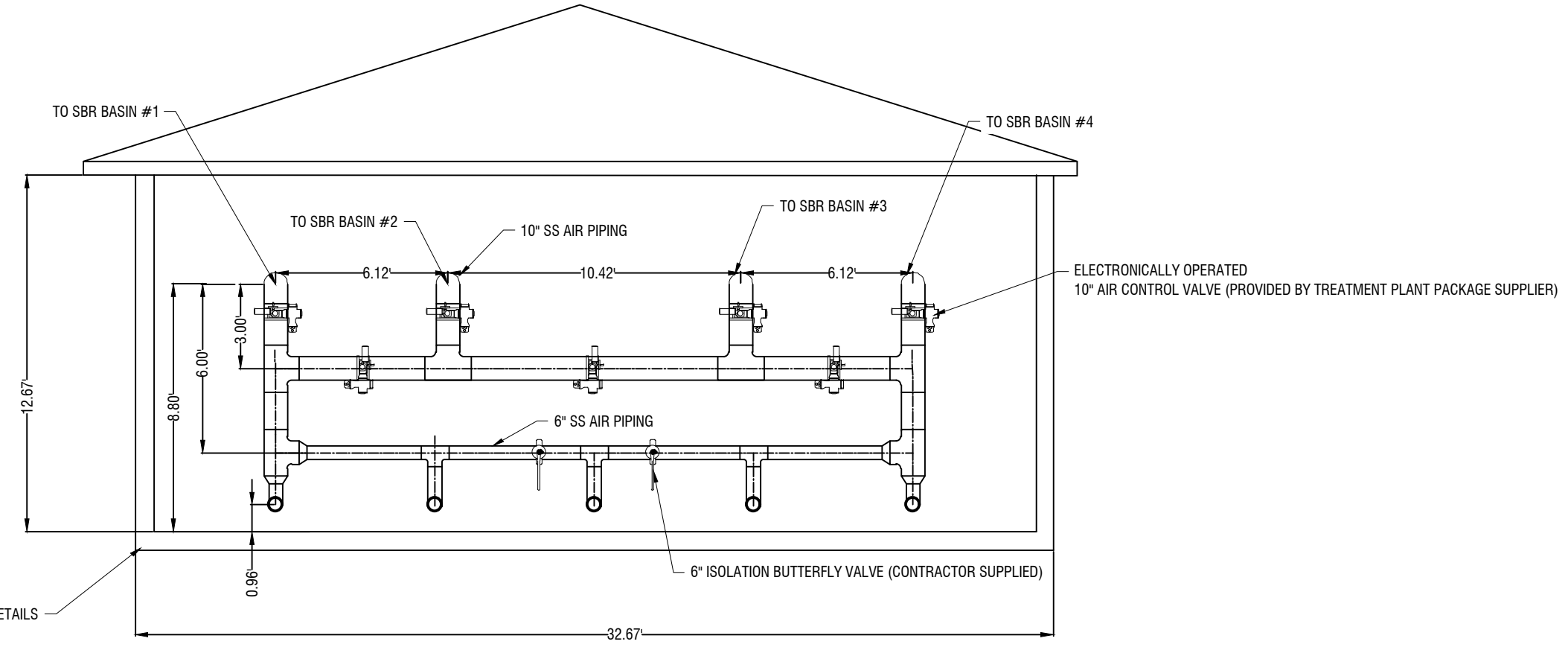
DIGESTER BLOWER
SCALE 1"=30"



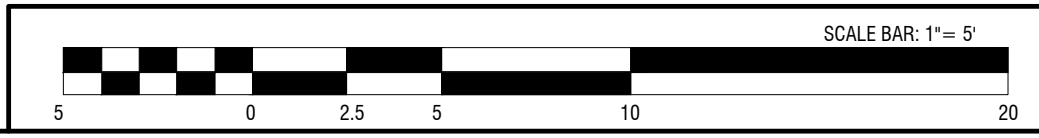
SW ISOMETRIC VIEW
NTS



SE ISOMETRIC VIEW
NTS



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



REVISIONS:	
1	MCC BUILDING
2	MCC BUILDING
3	GSWCC REVISION
4	EPD REVISION

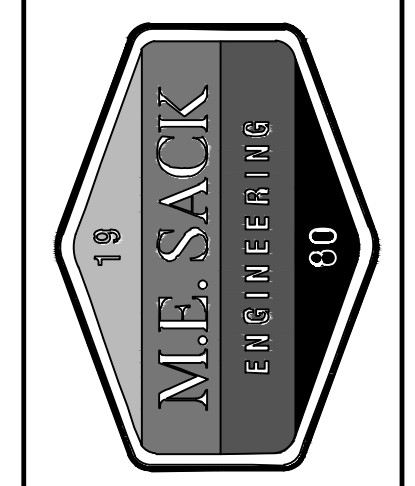
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DATE: May 3, 2024



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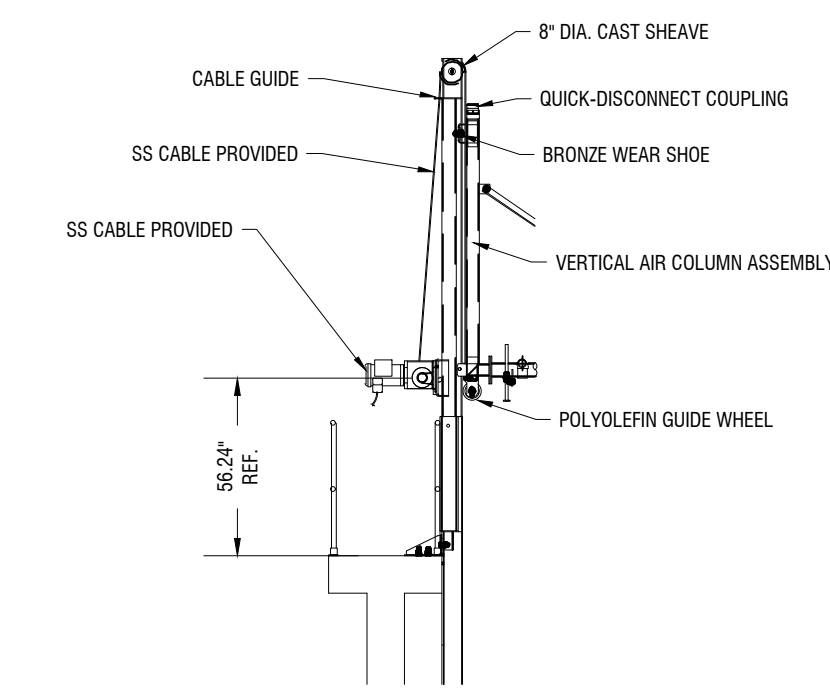
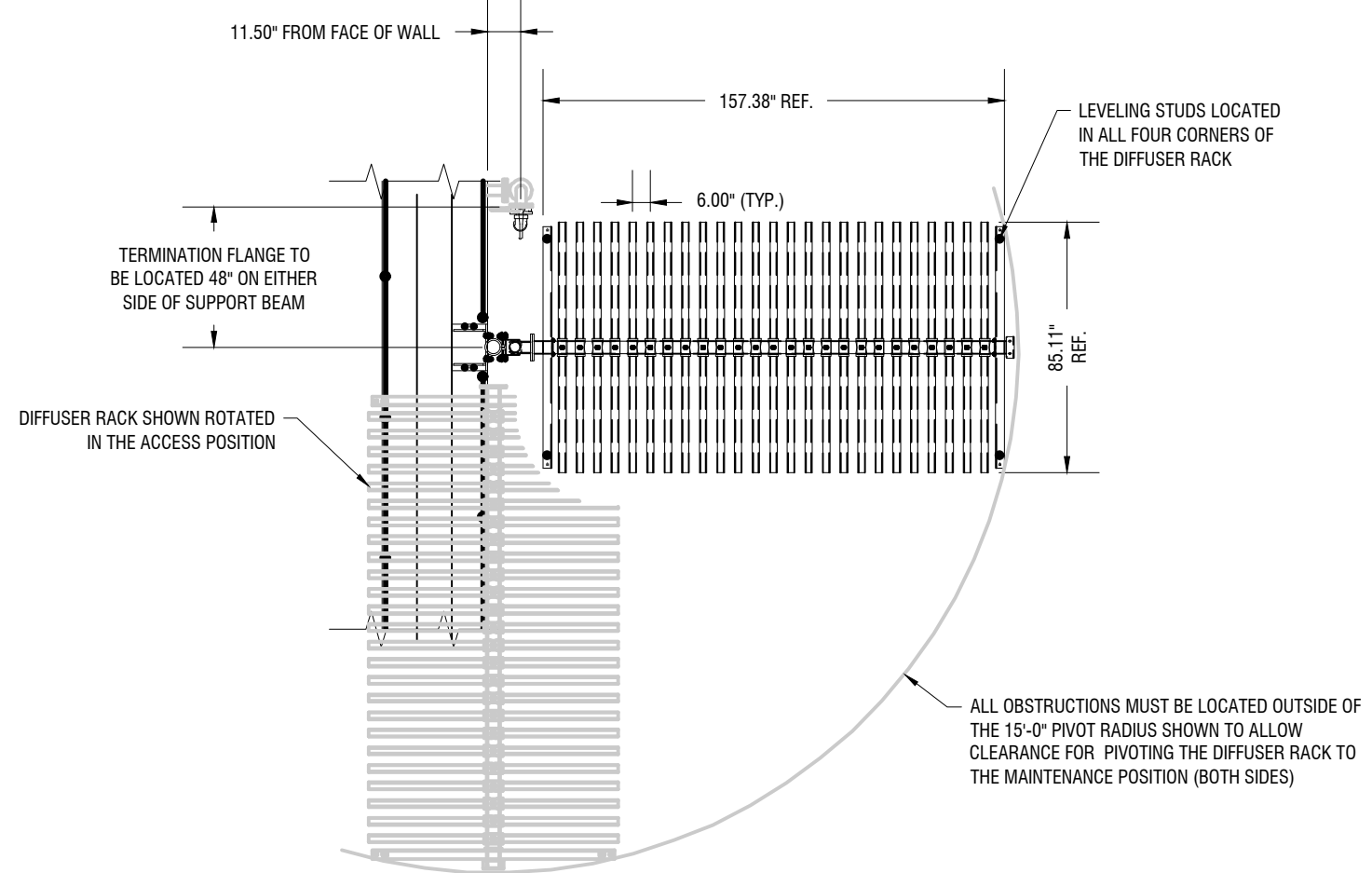
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WWTP
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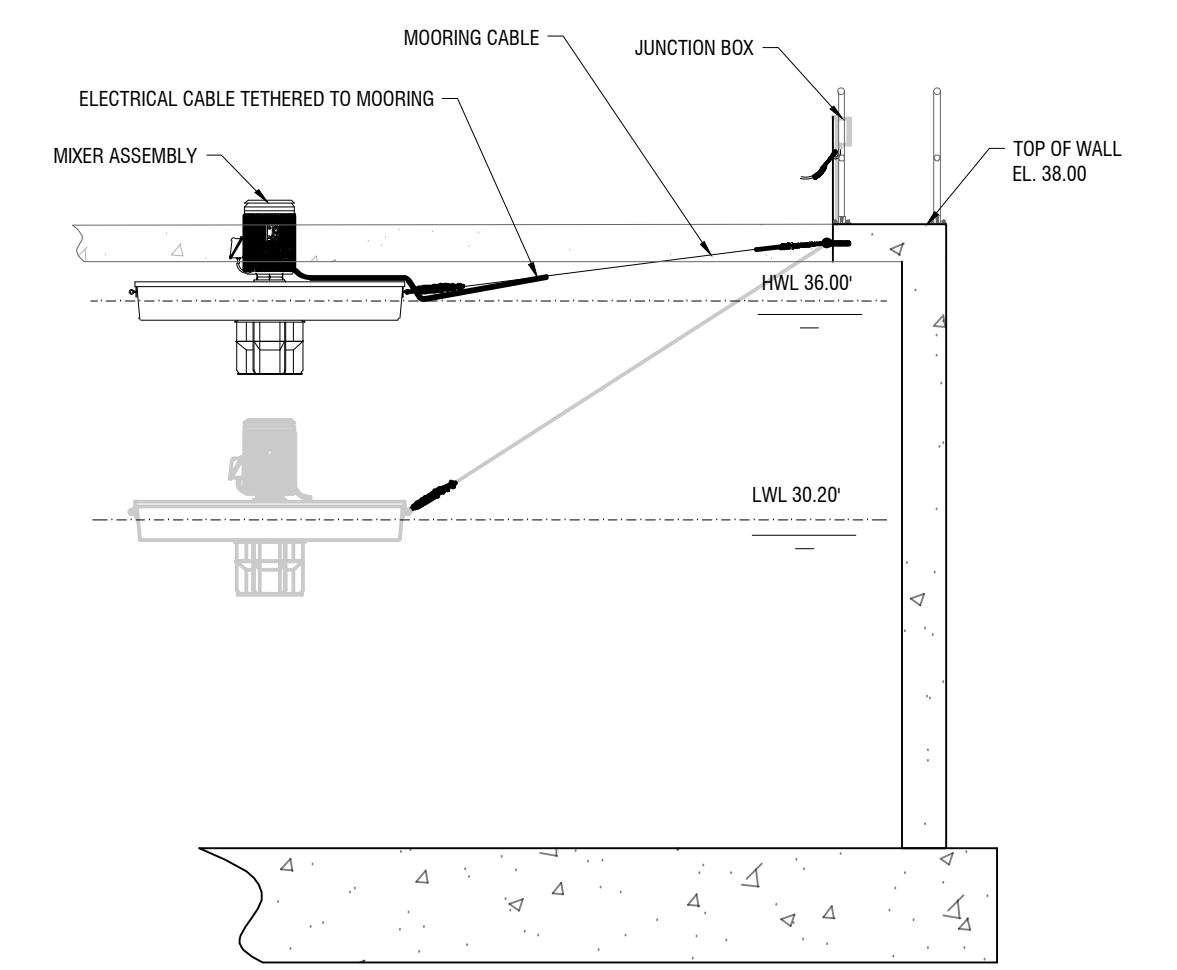
BLOWER
BUILDING

M14

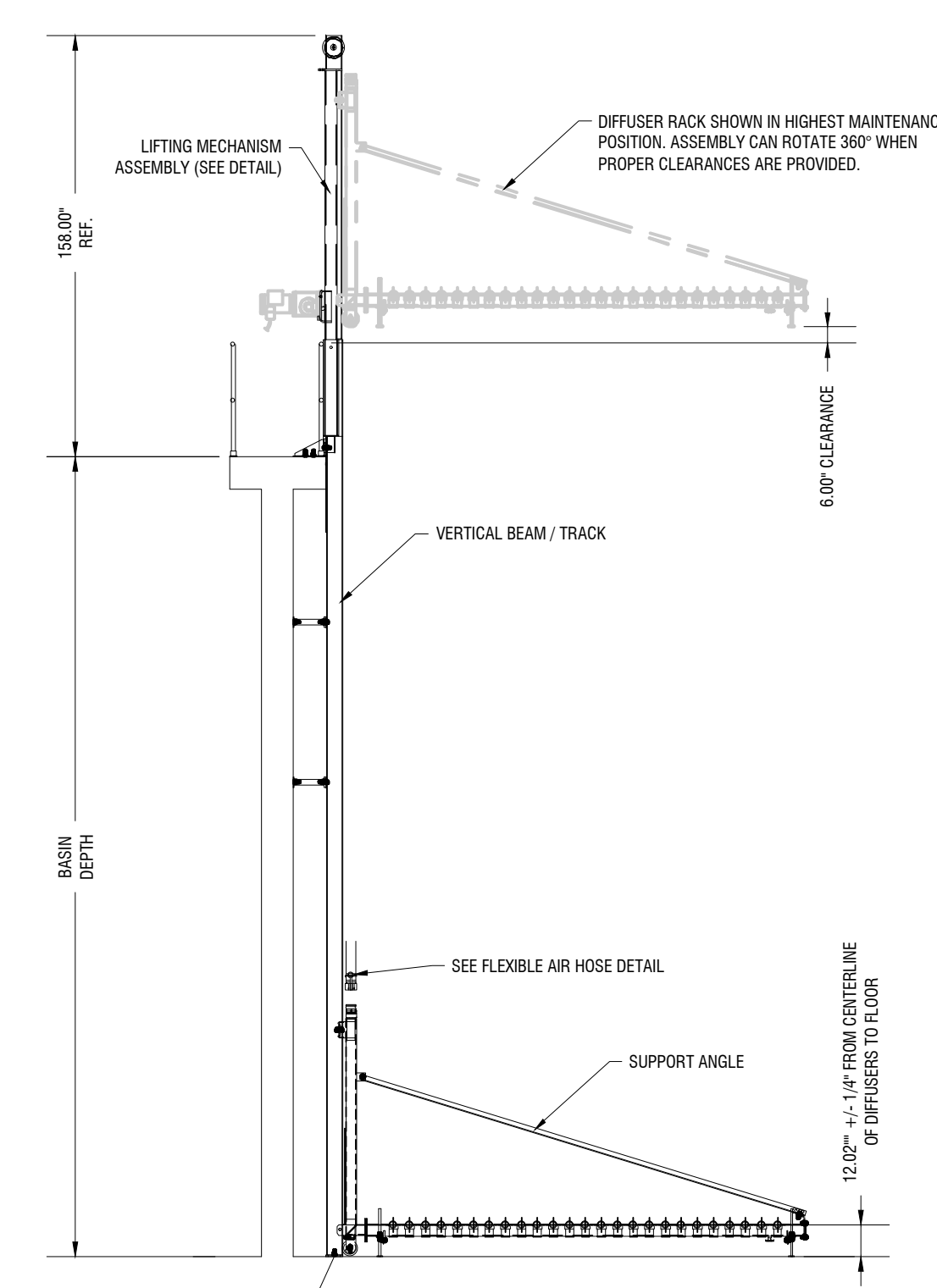
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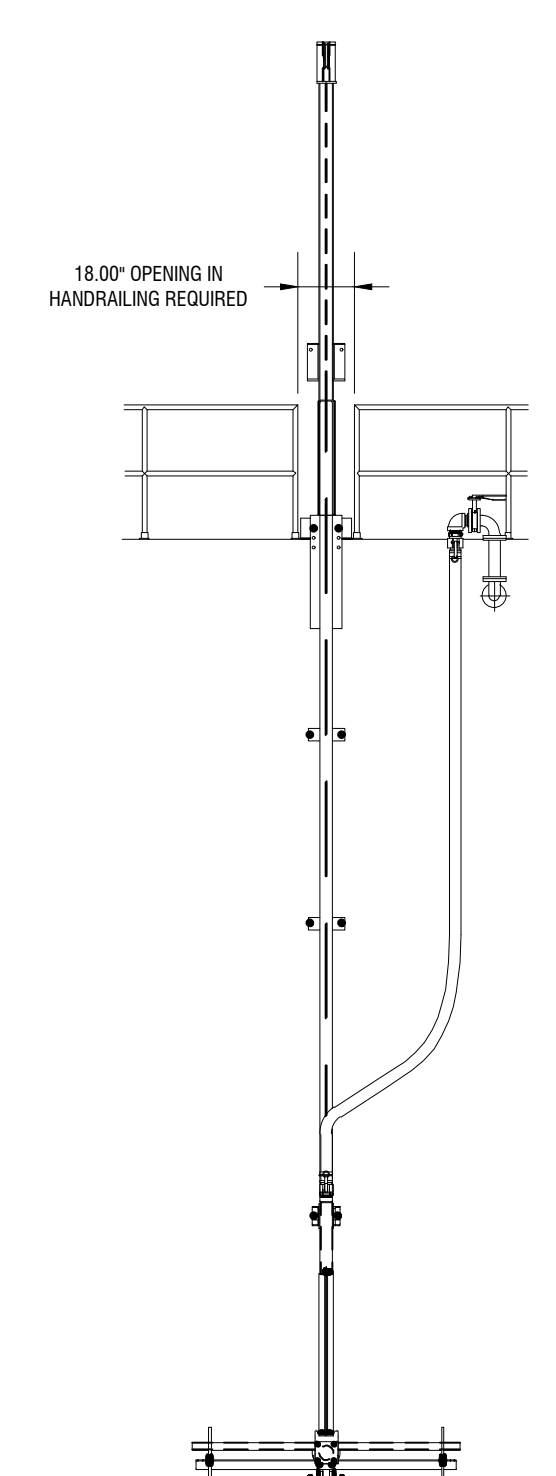
NOTE: PORTABLE ELECTRIC WINCH ASSEMBLY AN ELECTRICAL OUTLET IS REQUIRED WITHIN (5) FEET OF EACH VERTICAL SUPPORT BEAM TO PROVIDE POWER TO ELECTRIC WINCH. 115V, 1PH, 60HZ. ELECTRICAL POWER SUPPLY WIRING, NEMA 5-20R 20 AMP RECEPTACLE, AND JUNCTION BOX FOR WINCH SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.



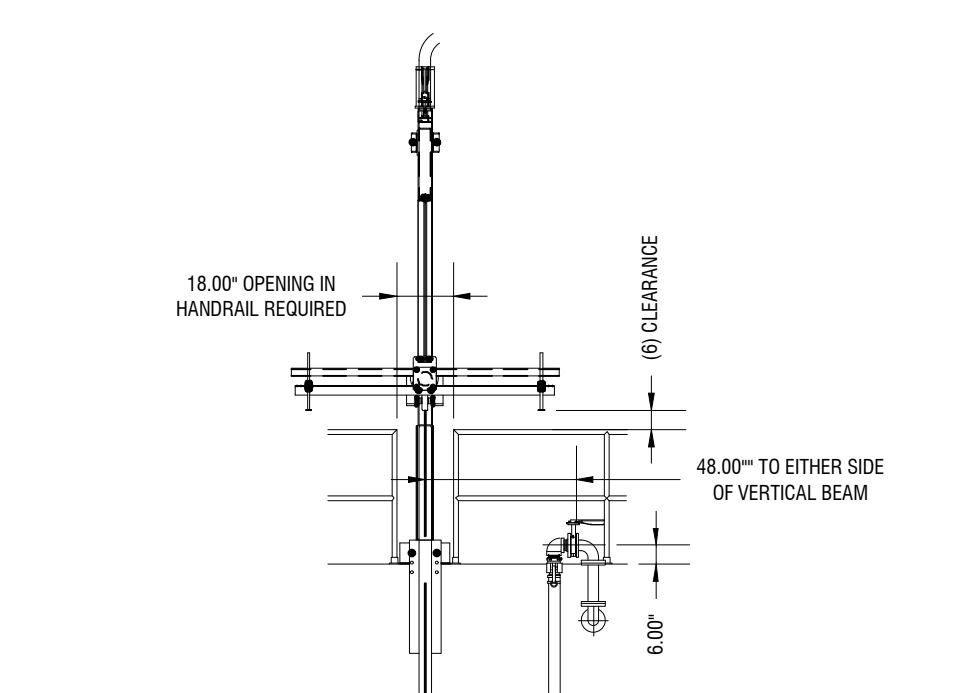
MIXER ELEVATION VIEW
NTS



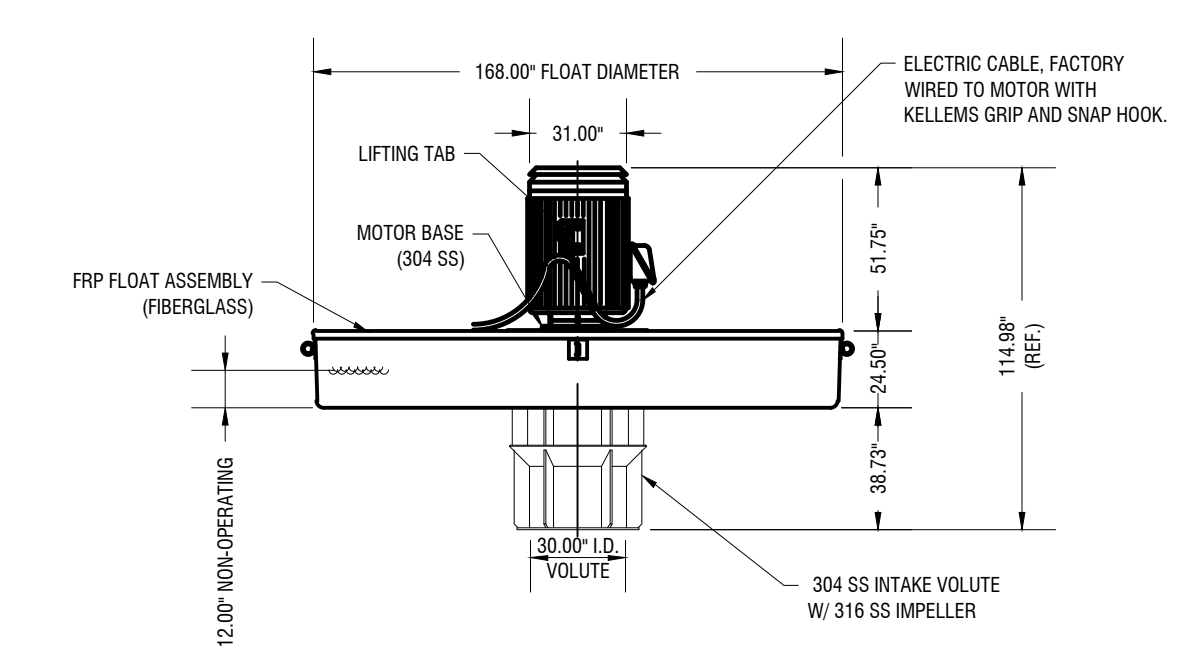
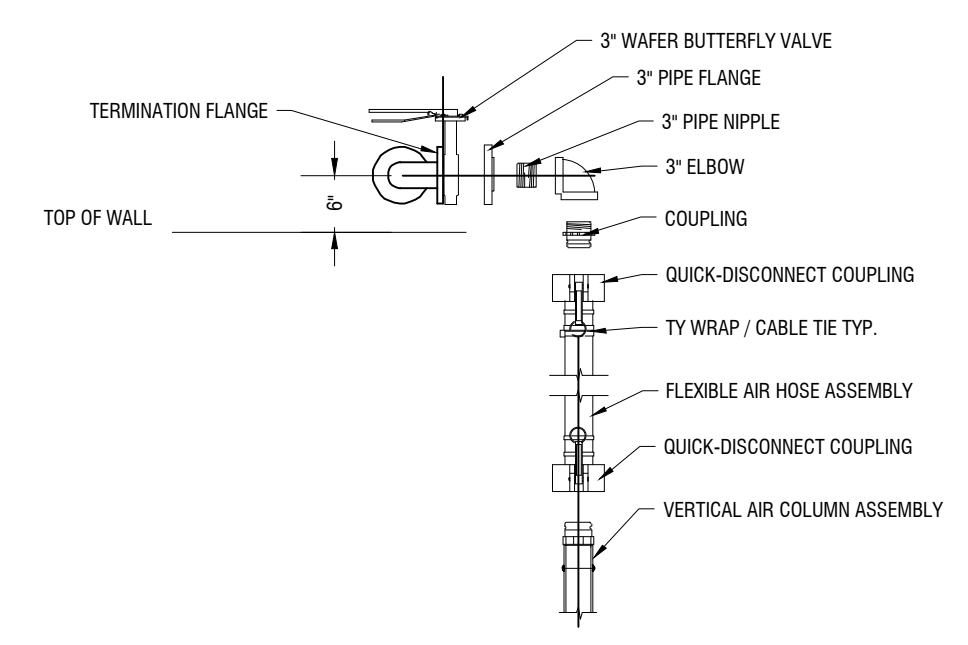
ELEVATION VIEW
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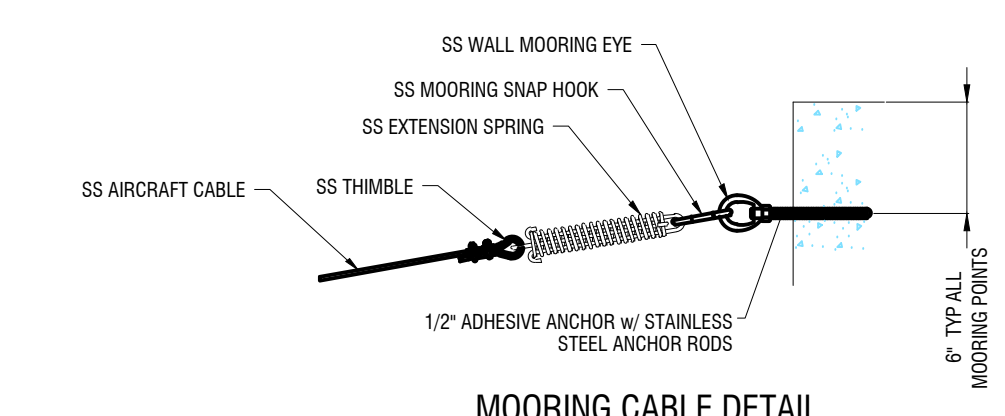
RETRIEVABLE FINE BUBBLE DIFFUSER
NTS



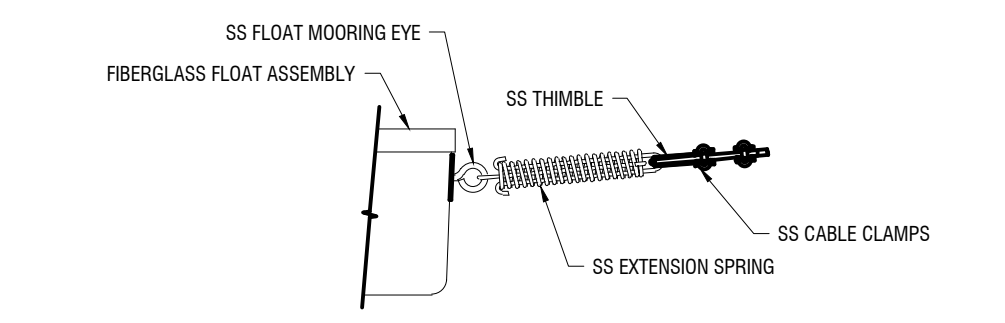
FLEXIBLE AIR LINE DETAIL
NTS



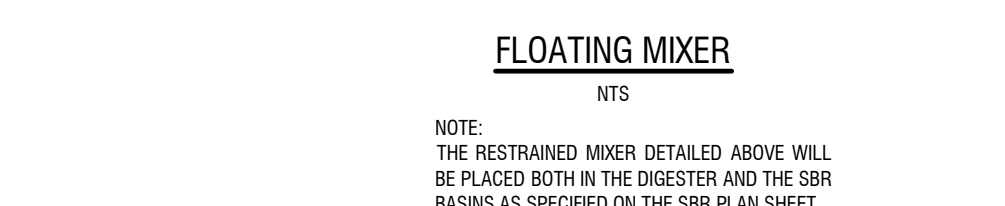
MIXER DIMENSIONS
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MOORING CABLE DETAIL
NTS

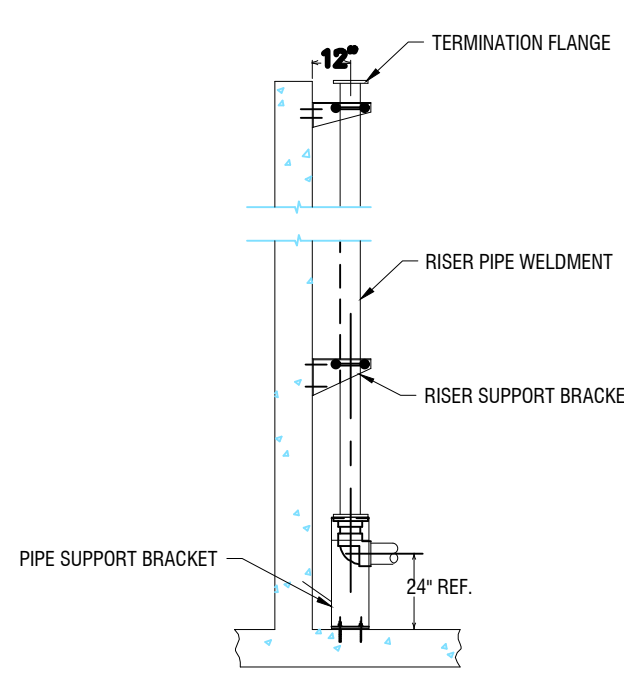


FLOAT MOORING DETAIL
NTS

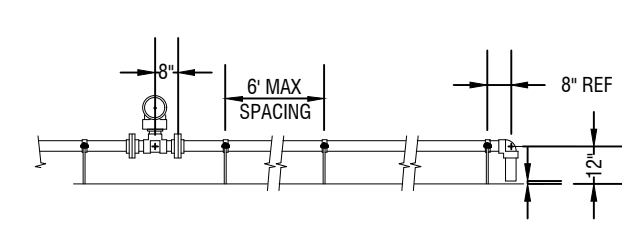


FLOATING MIXER
NTS

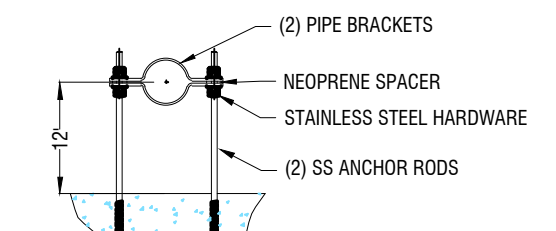
NOTE: THE RESTRAINED MIXER DETAILED ABOVE WILL BE PLACED BOTH IN THE DIGESTER AND THE SBR BASINS AS SPECIFIED ON THE SBR PLAN SHEET



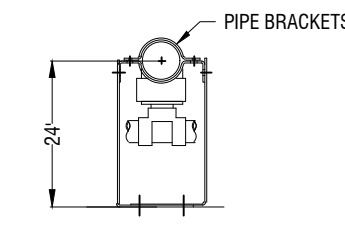
AIR MANIFOLD RISER PIPE DETAIL
NTS



DIFFUSER BRACKET LAYOUT
NTS



DIFFUSER BRACKET DETAIL
NTS



MANIFOLD BRACKET DETAIL
NTS



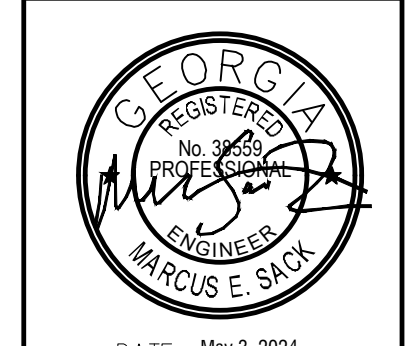
FIXED COARSE BUBBLE DIFFUSER
NTS

NOTE:
1) DIFFUSER ASSEMBLY MUST BE MOUNTED SUCH THAT THE DIFFUSERS HOLES POINT STRAIGHT UP FROM TRUE VERTICAL.
2) ALL DIFFUSERS MUST BE ON THE SAME ELEVATION

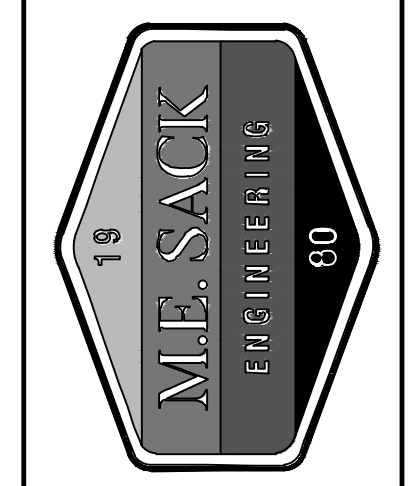
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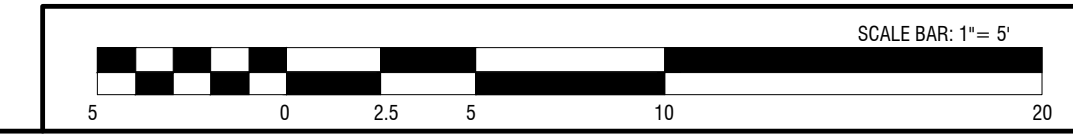
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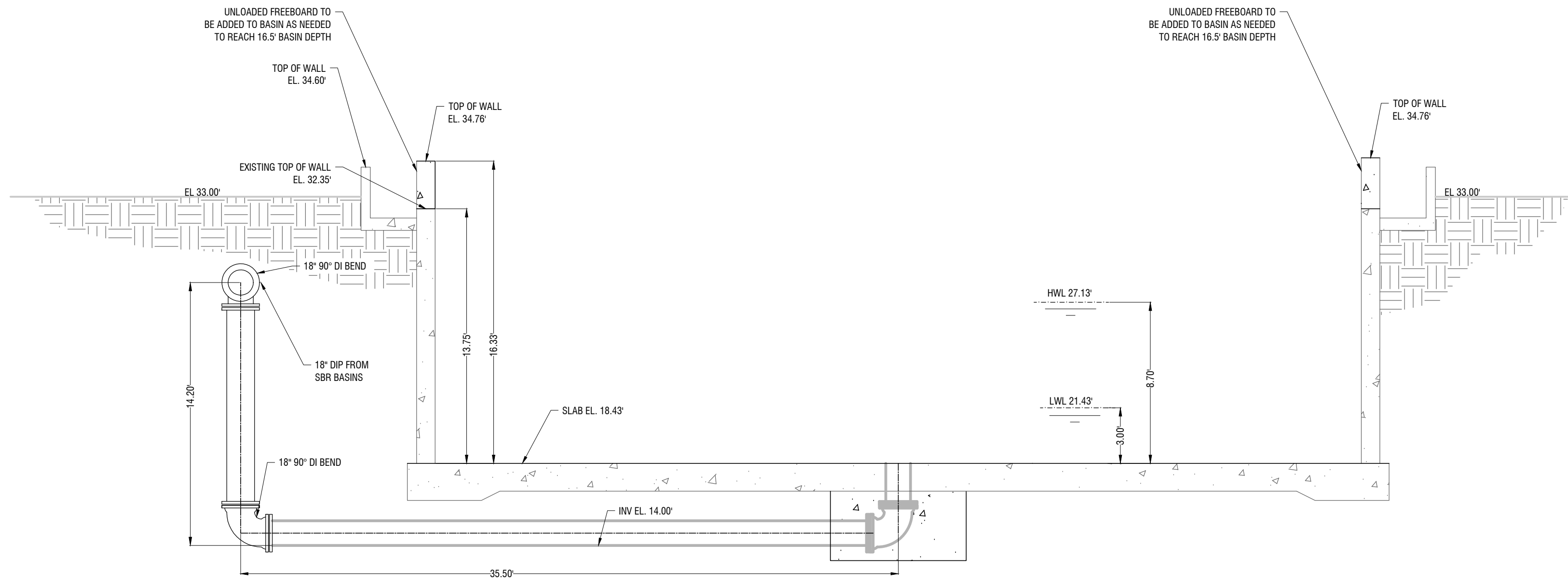
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SBR DETAILS

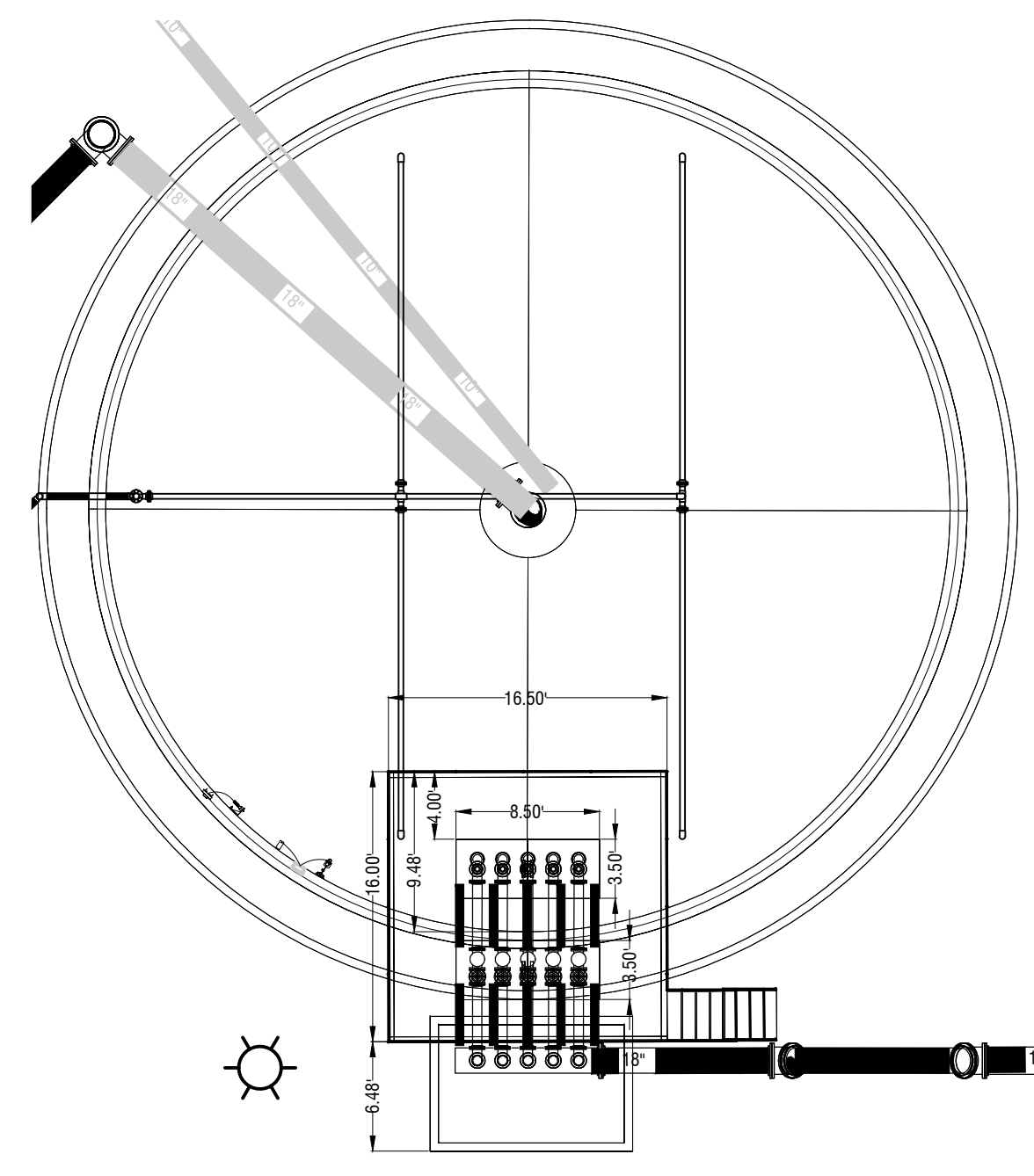
M15



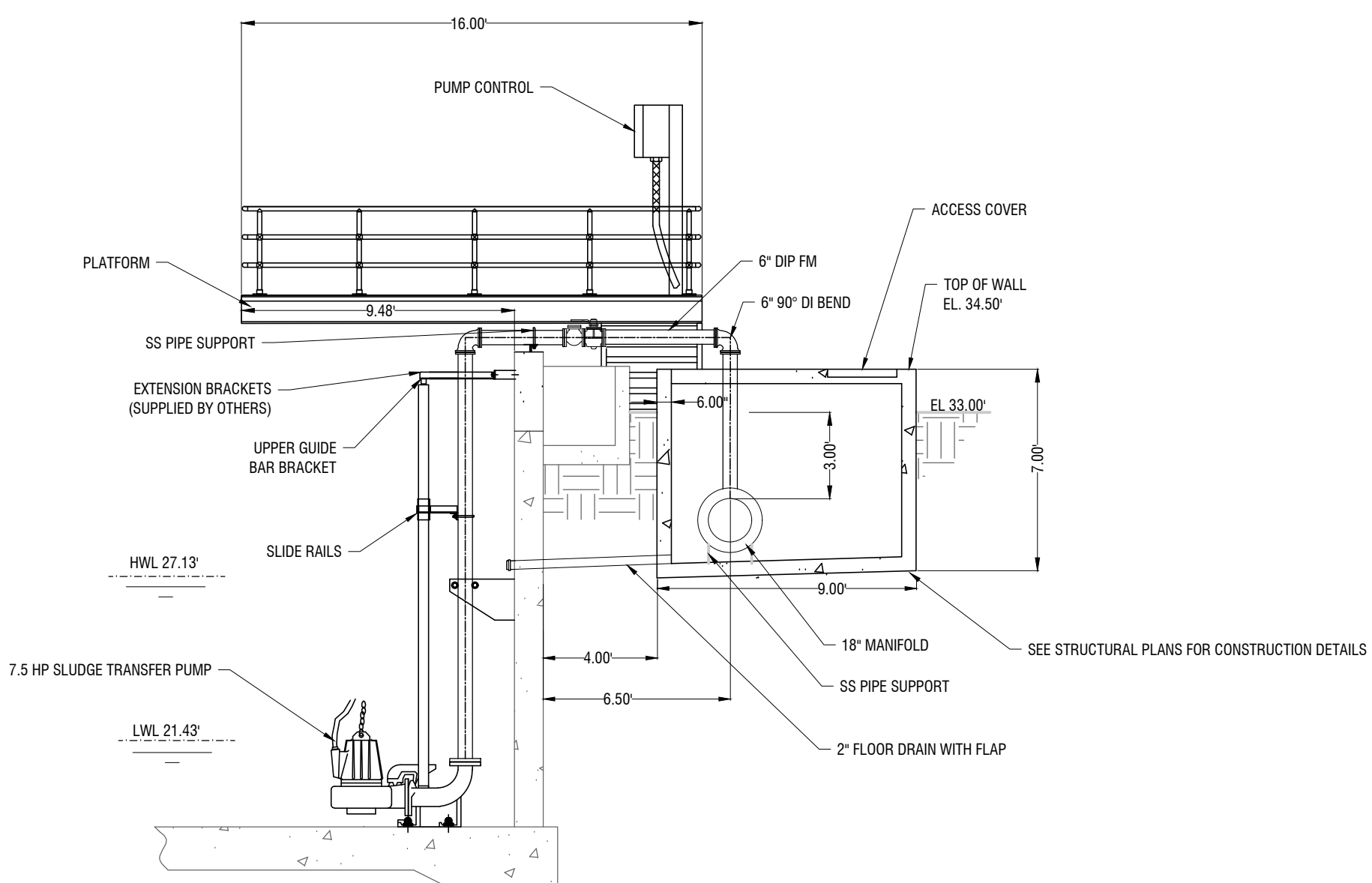
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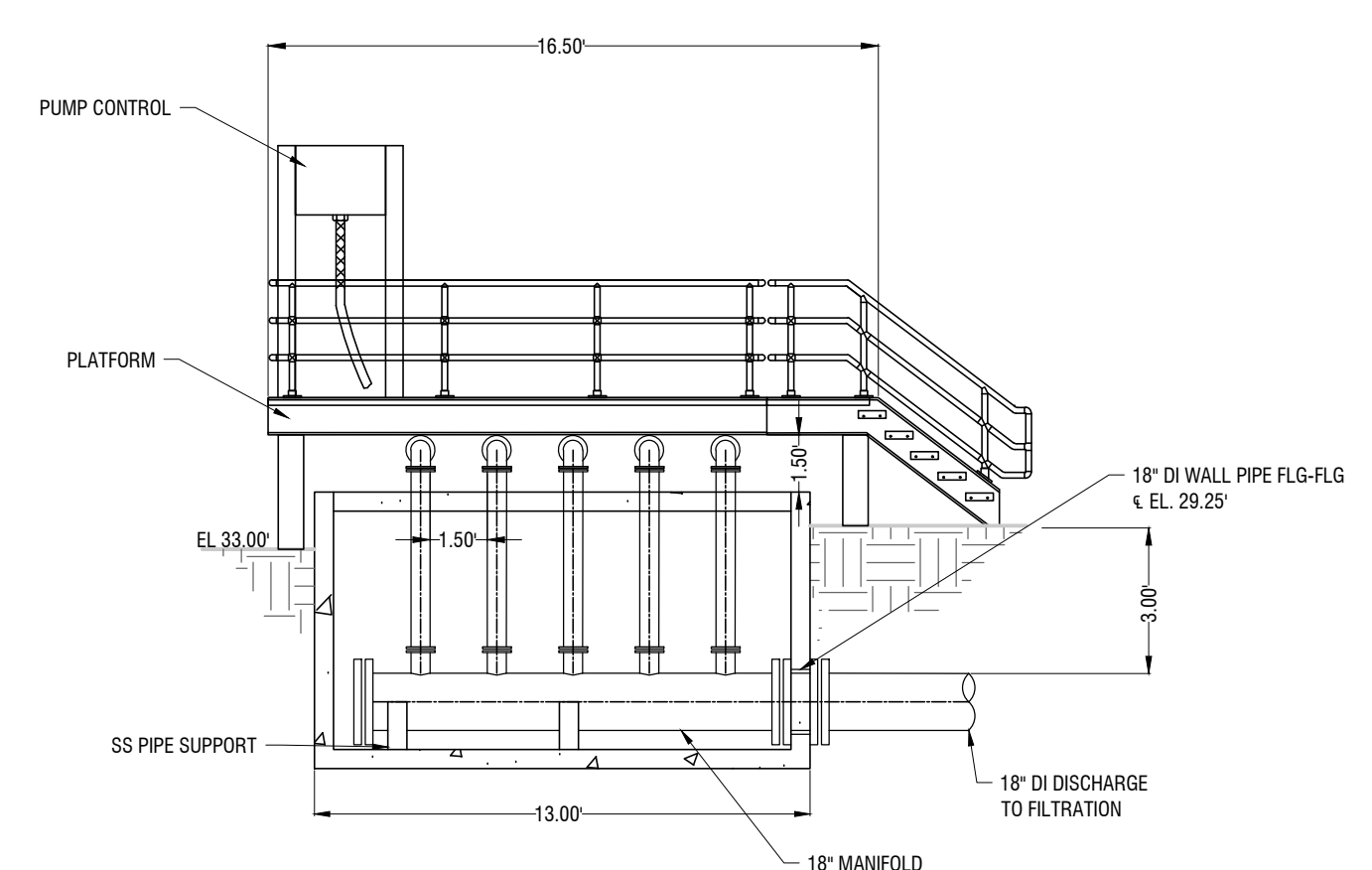
SECTION M-M'
SCALE 1"=5'



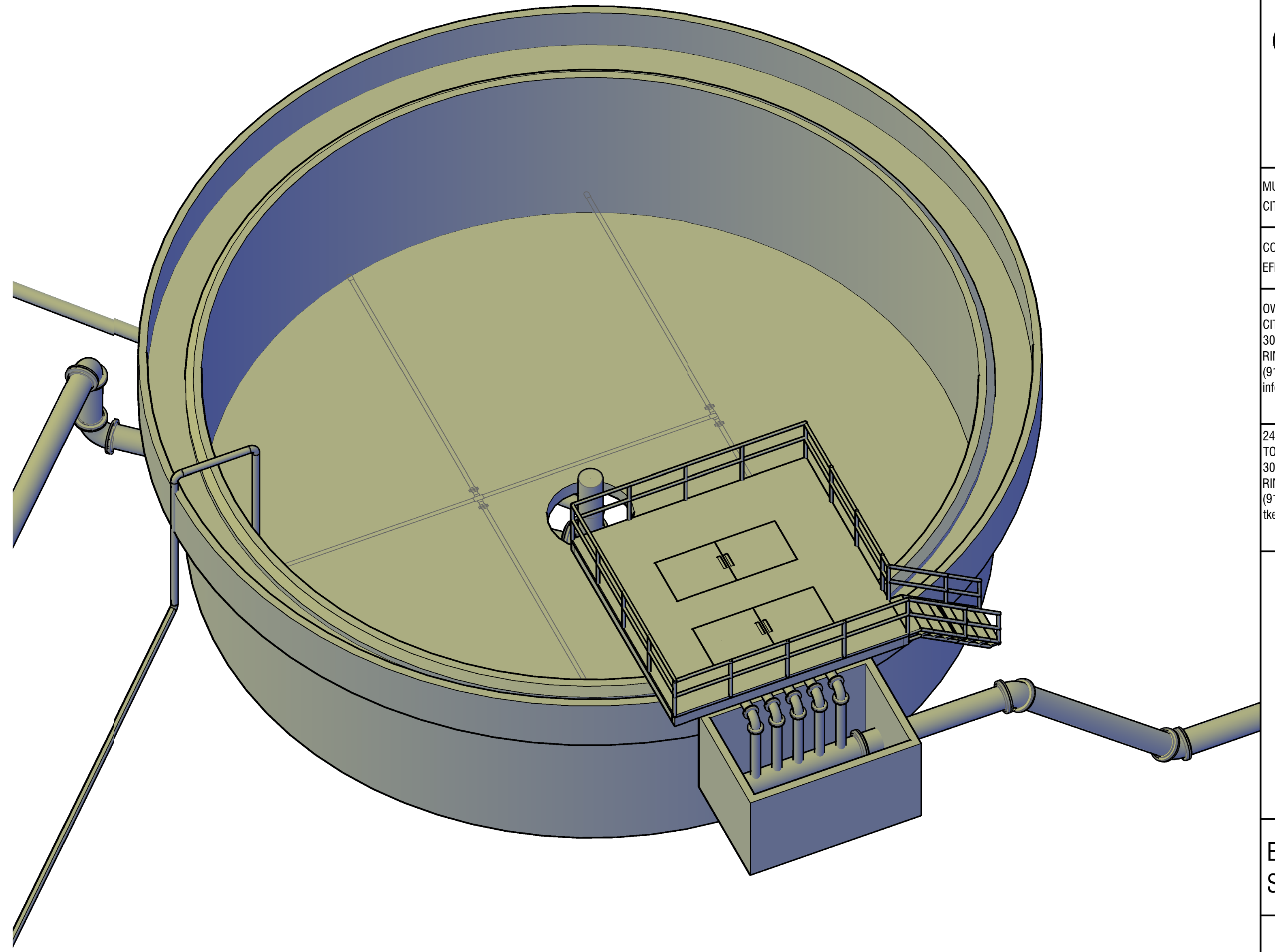
POST EQUALIZATION TANK
PLAN VIEW
SCALE 1"=10'



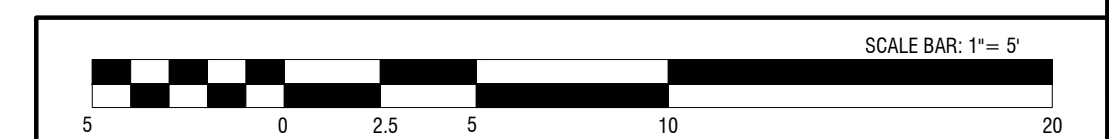
SBR PLAN
SECTION N-N'
SCALE 1"=5'



SBR PLAN
SECTION O-O'
SCALE 1"=5'



POST EQUALIZATION TANK
ISOMETRIC VIEW
NTS

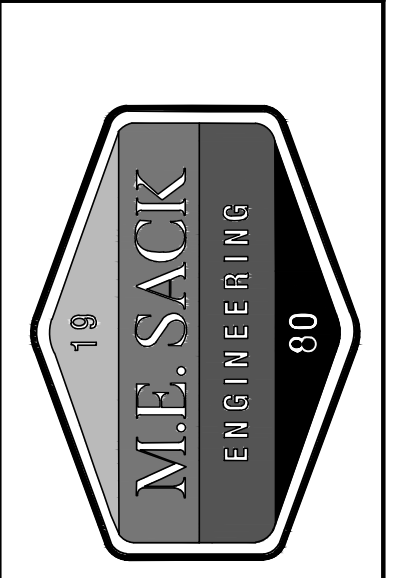
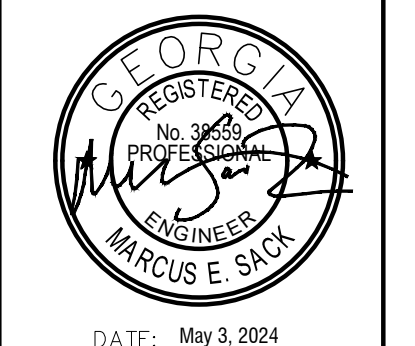


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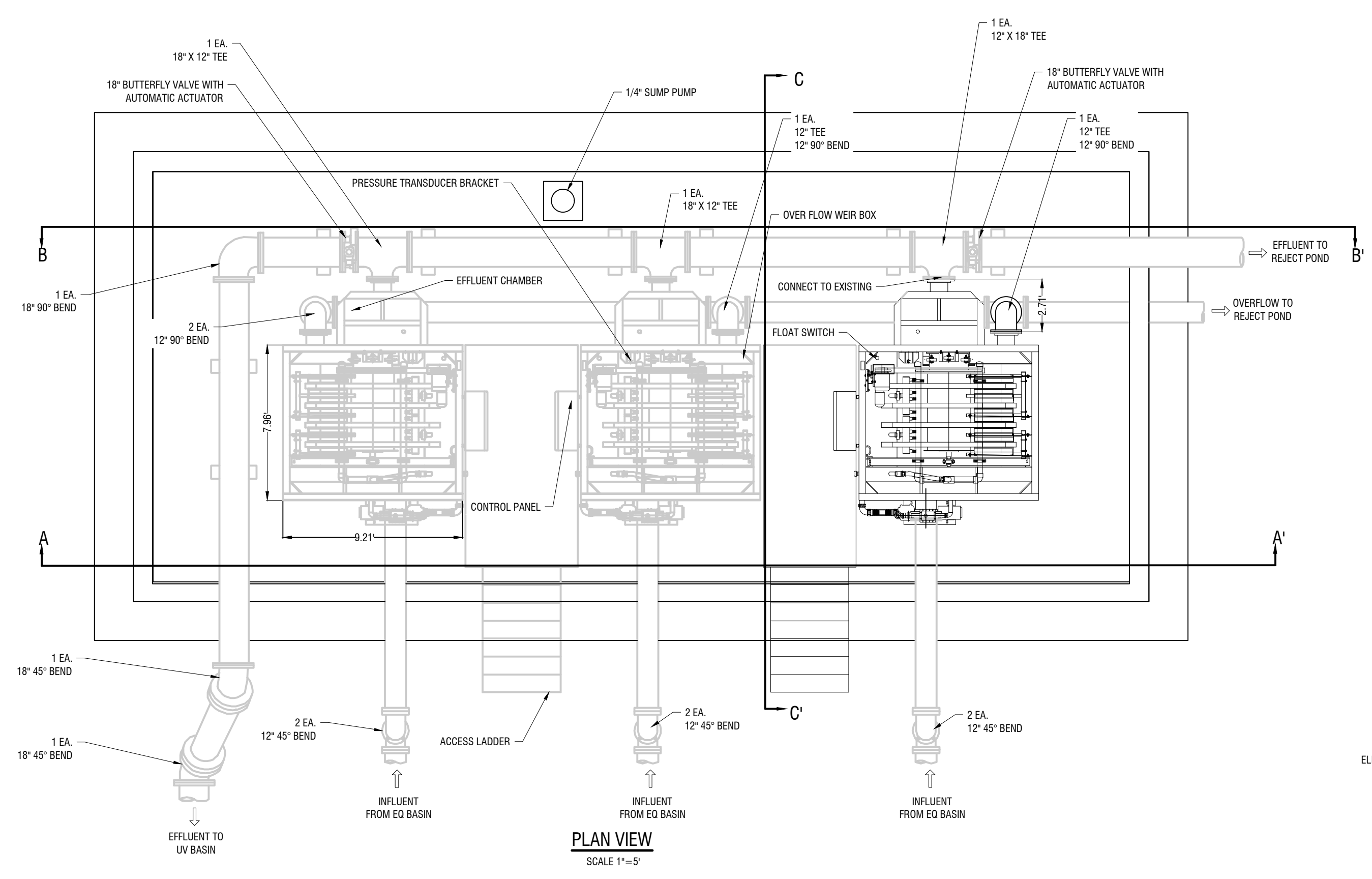
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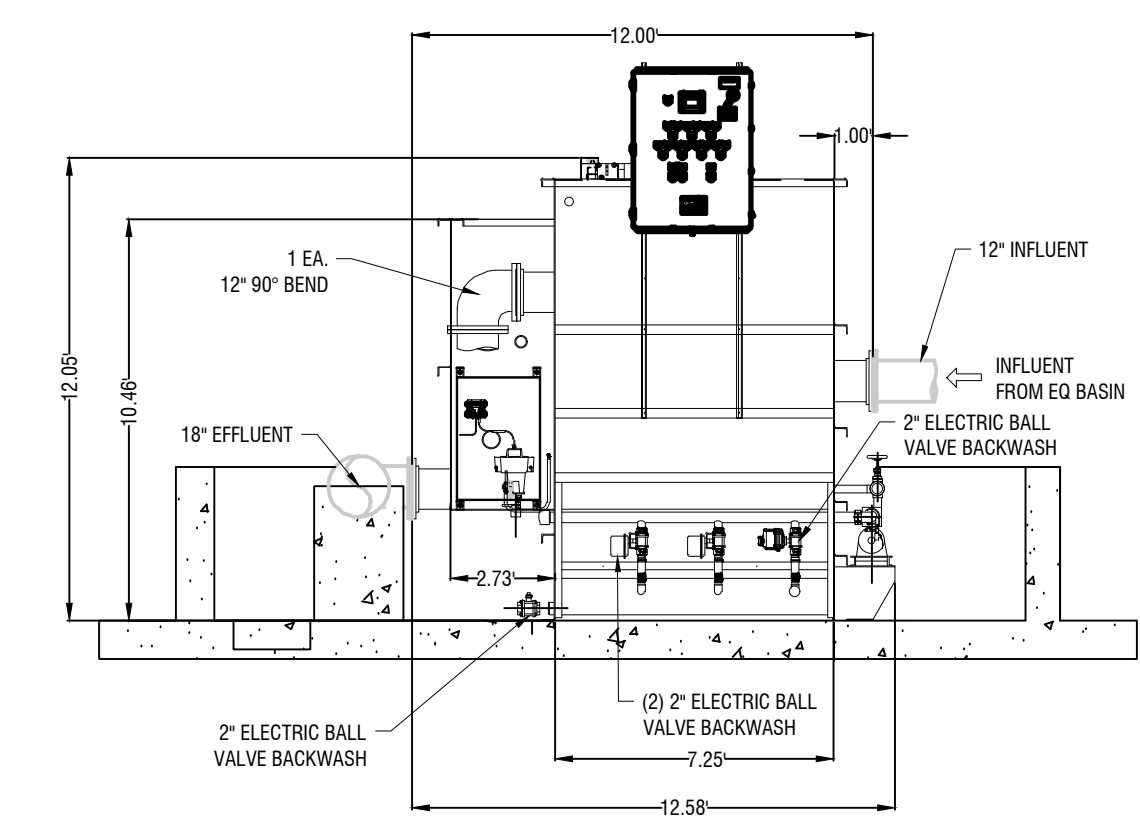
EQUALIZATION
SECTION VIEW

M16

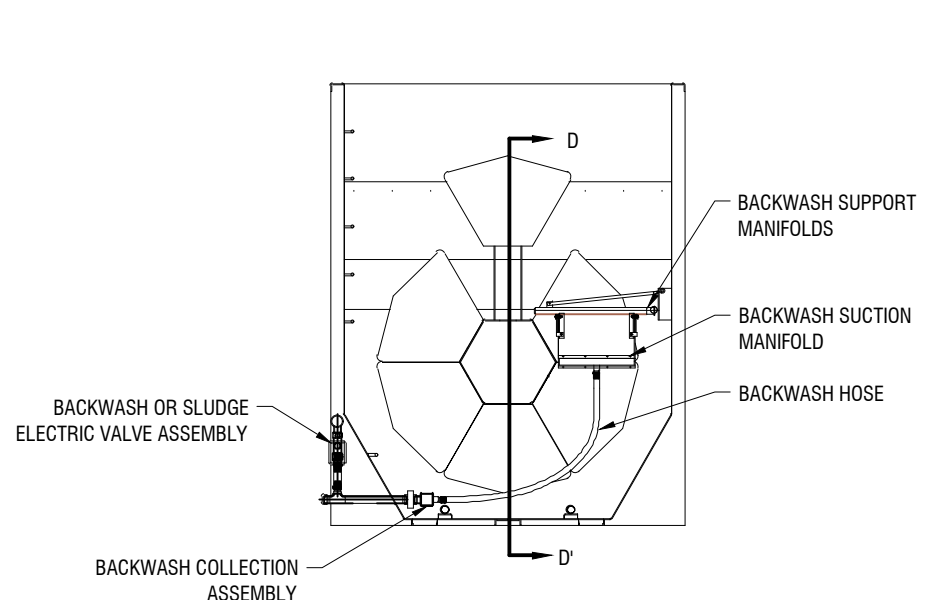
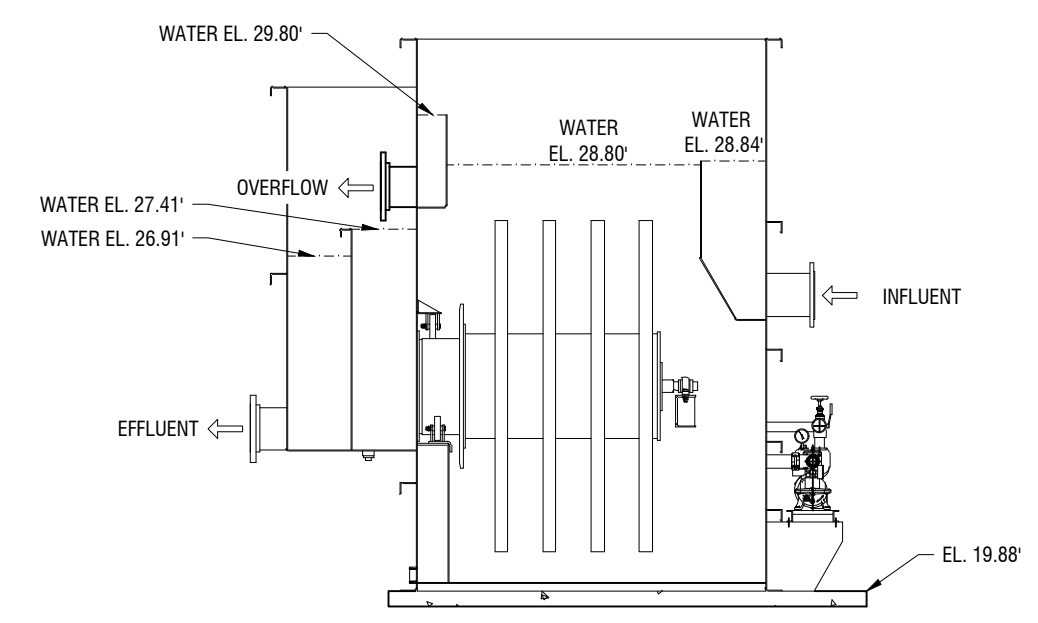
FILE NO: 2020-10 PRJ
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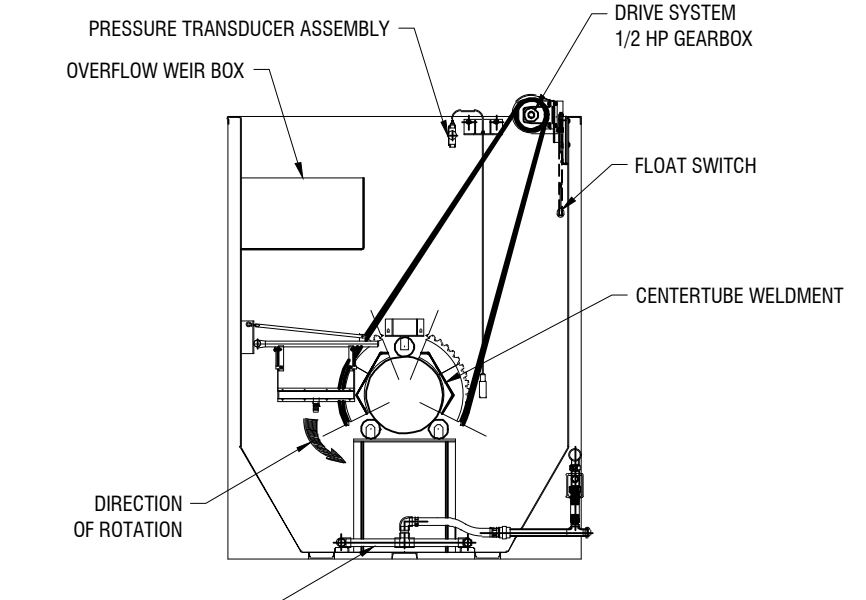
PLAN VIEW
SCALE 1"=5'



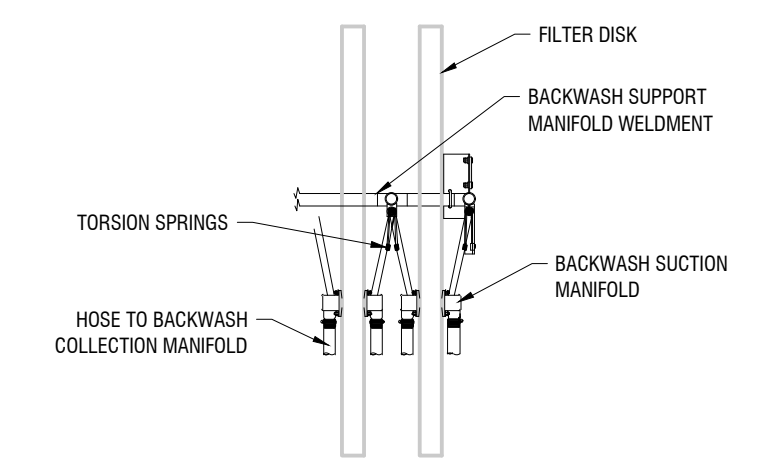
TERTIARY FILTRATION SECTION C-C'
SCALE 1"=5'



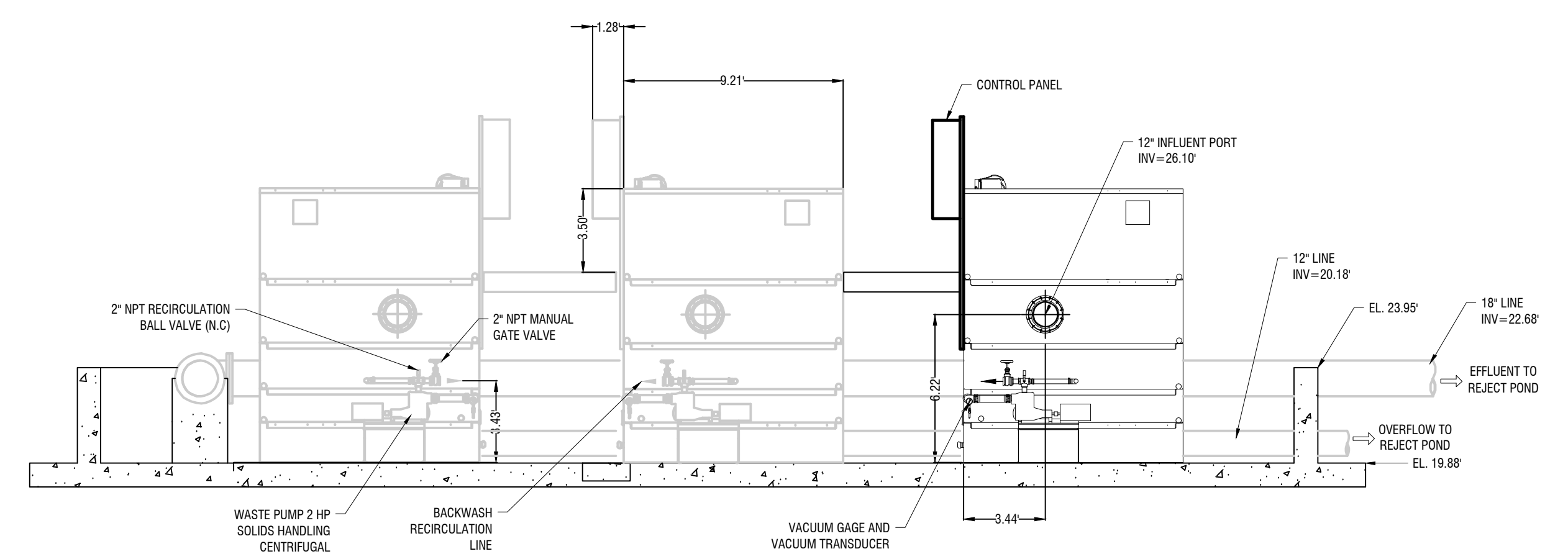
BACKWASH MANIFOLD CROSS-SECTION
SCALE 1"=5'



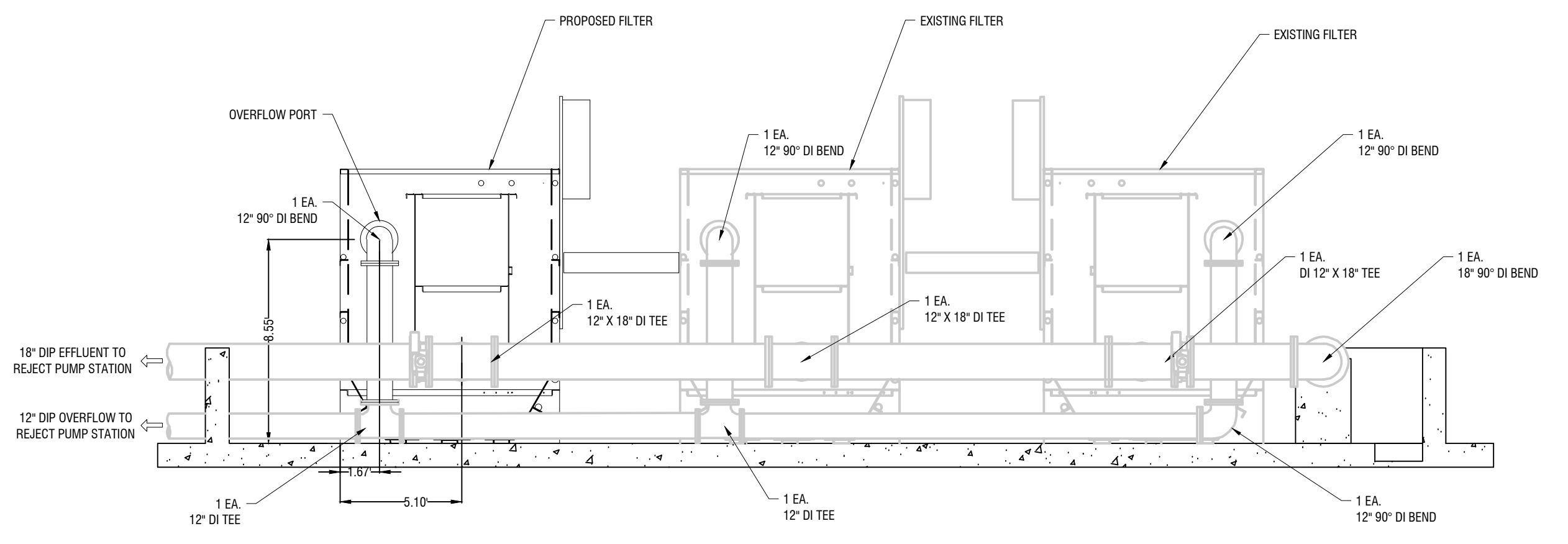
FRONT MOUNTING AND DRIVE CROSS-SECTION
SCALE 1"=5'



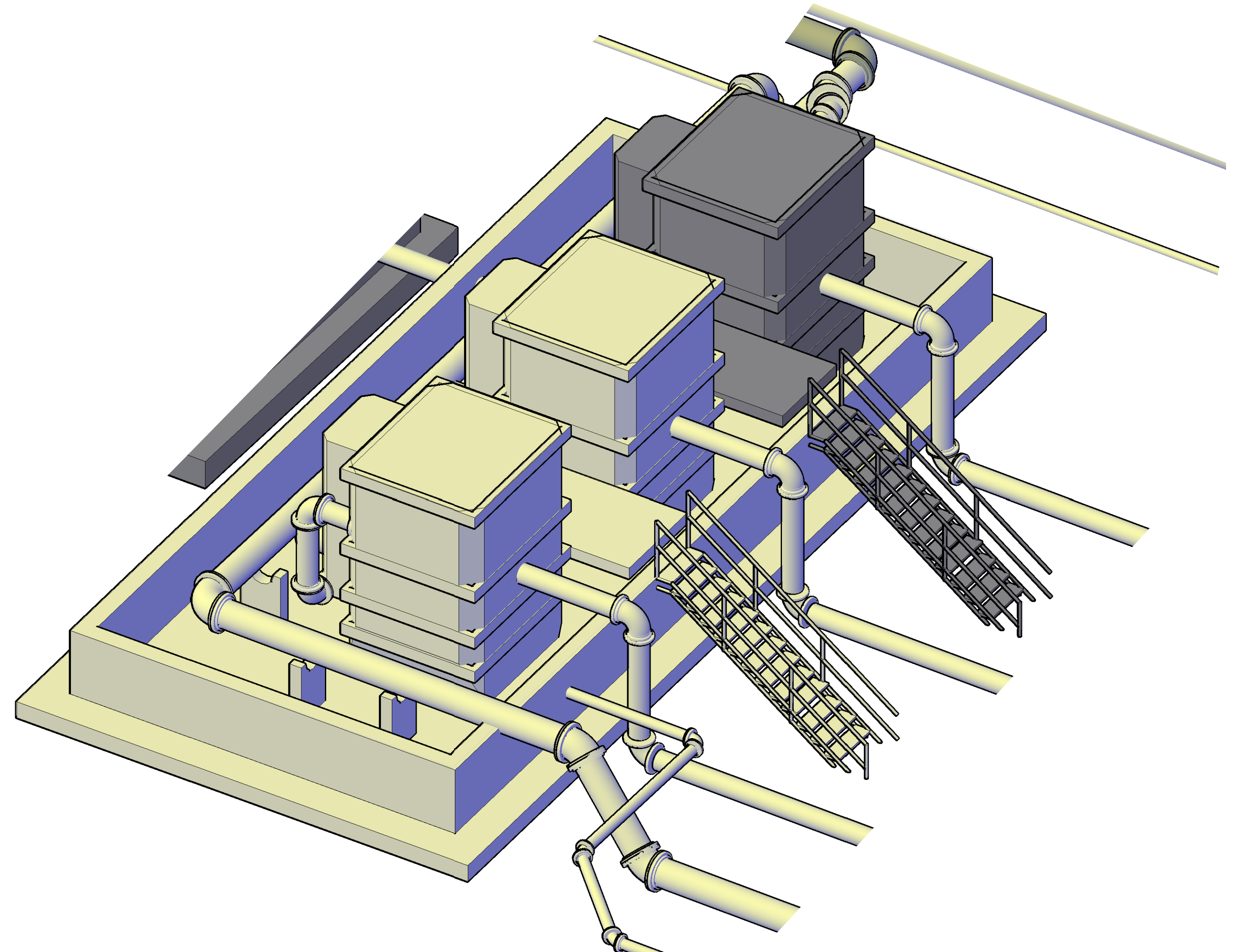
TERTIARY FILTRATION SECTION D-D'
SCALE 1"=5'



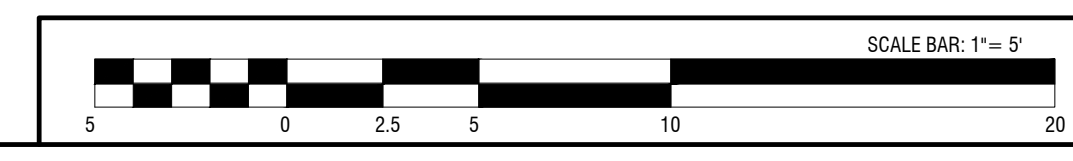
TERTIARY FILTERS SECTION A-A'
SCALE 1"=5'



TERTIARY FILTERS SECTION B-B'
SCALE 1"=5'



TERTIARY FILTRATION ISOMETRIC VIEW
NTS



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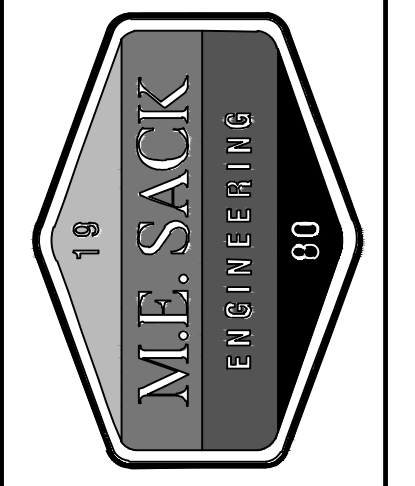
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TERTIARY FILTERS

M17

FILE NO: 2020-10 PRJ
PLOT DATE: May 3, 2024

GENERAL NOTES:

- PUMPS SHALL BE GORMAN-RUPP SF60 20 HP WITH 9.25" IMPELLER AND 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.
- PAINT PIPE AND FITTING ACCORDING TO THE COLOR CODE ON SHEET G3.
- 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.
- PUMP LIFTING DEVICE SHALL BE 304 SS CHAIN
- CABLE HANGERS SHALL BE STAINLESS STEEL.
- REFERENCE STRUCTURAL DRAWINGS FOR ALL STRUCTURAL DIMENSIONS AND DETAILS.

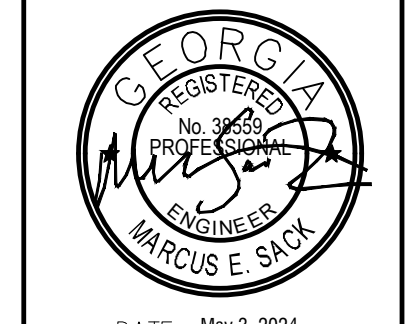
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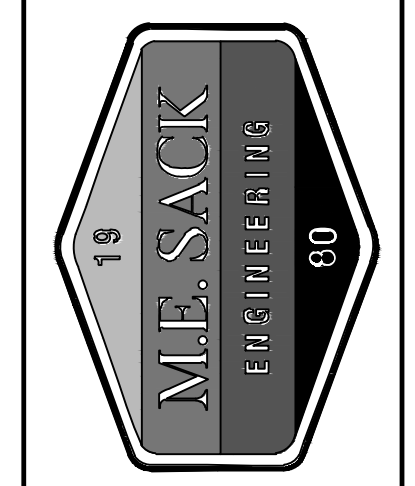
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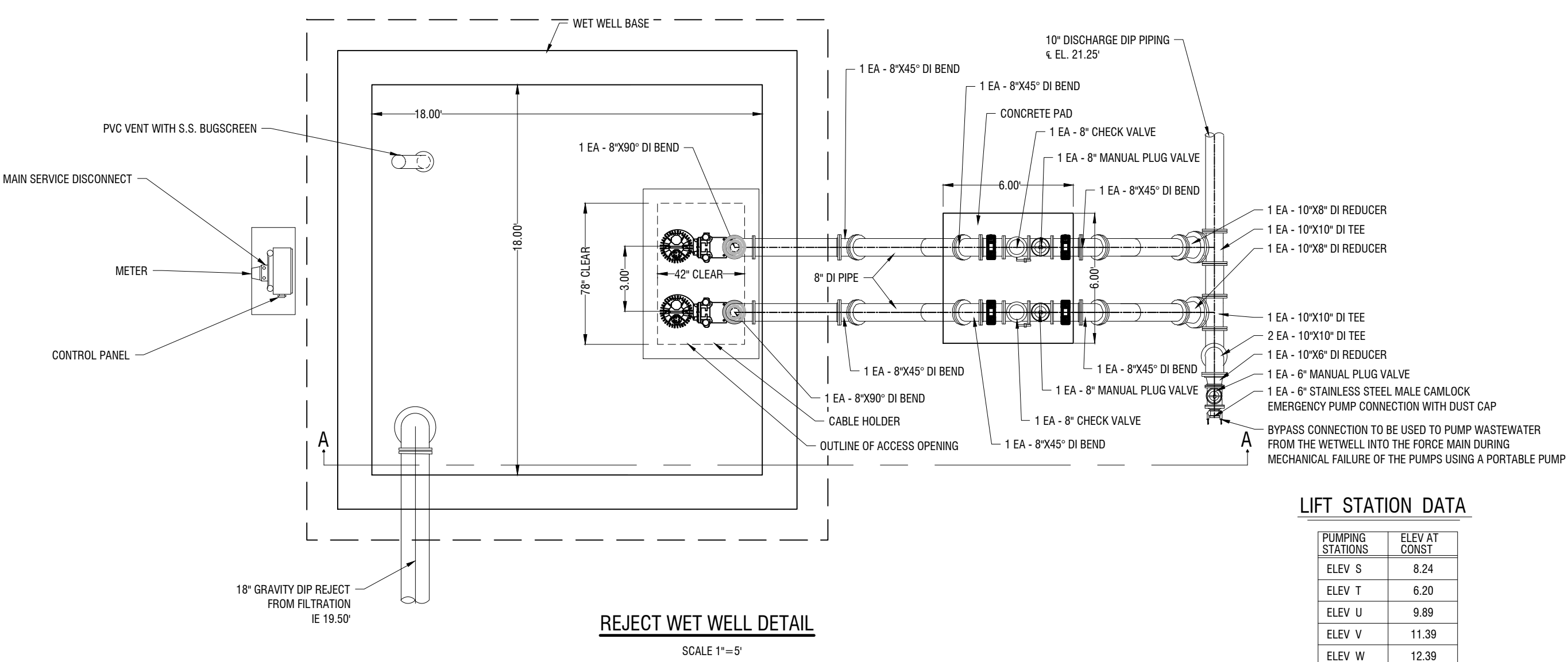
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REJECT PUMP STATION

M18

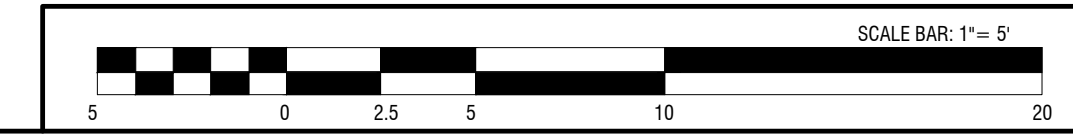
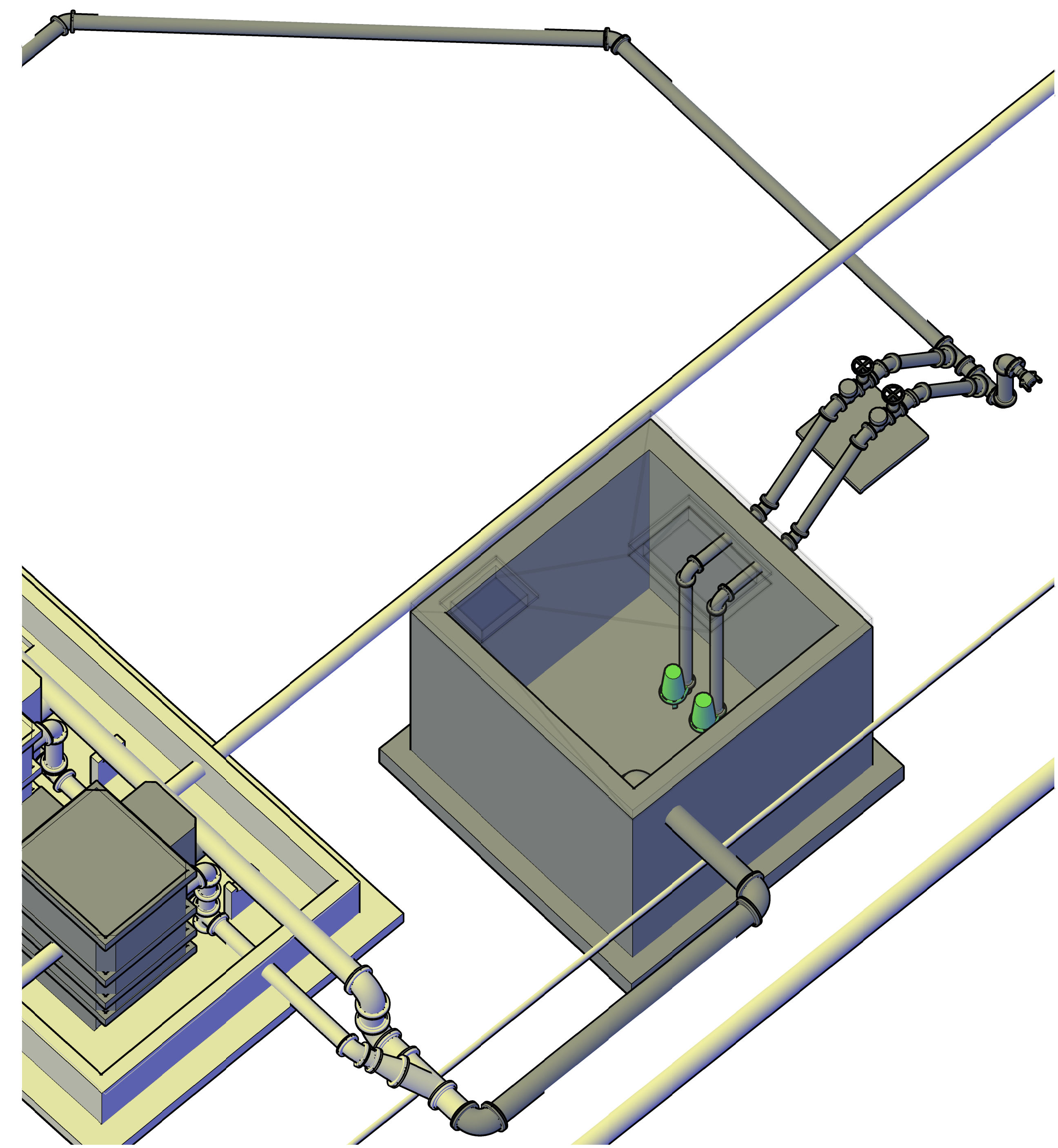
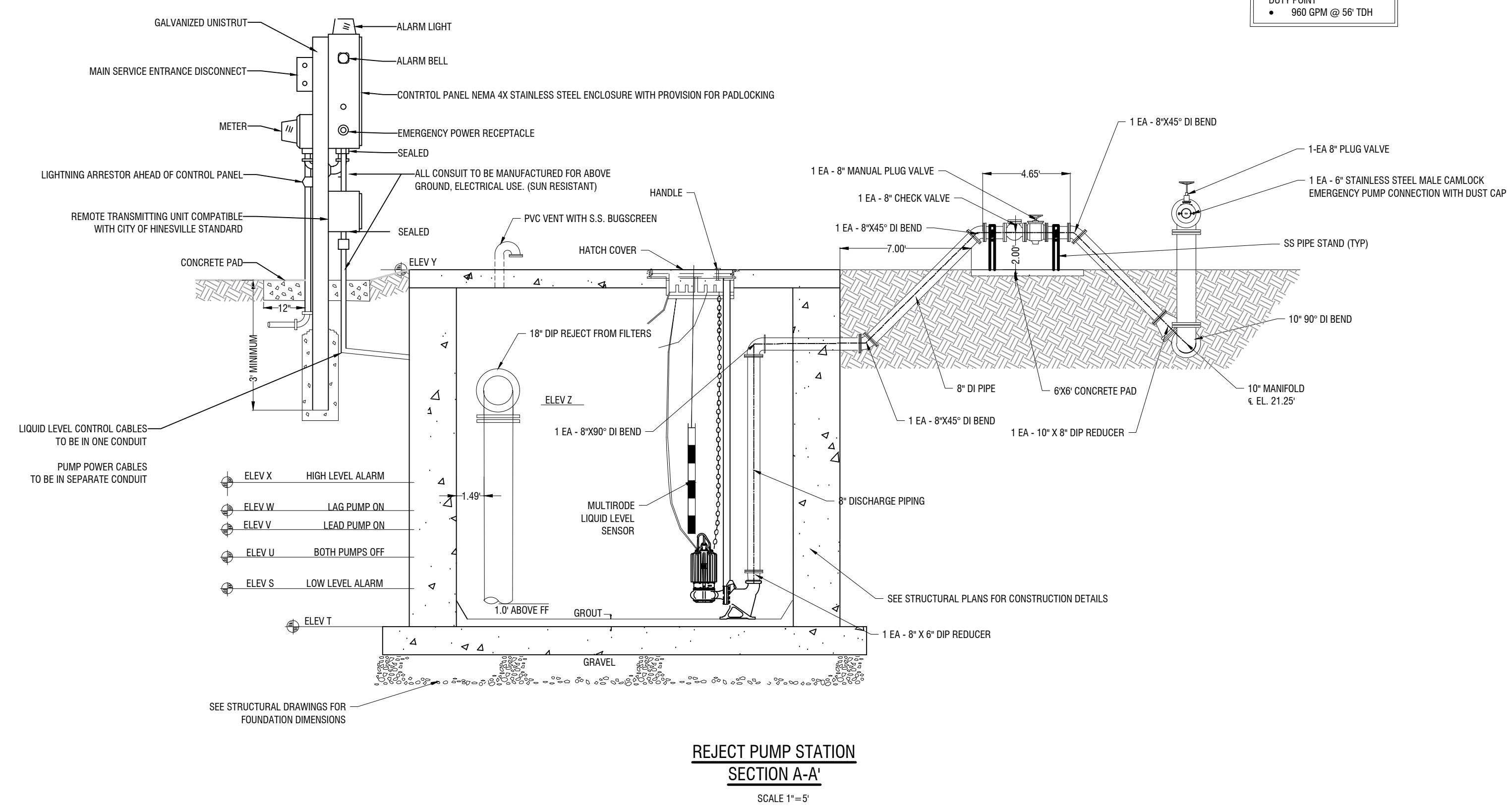
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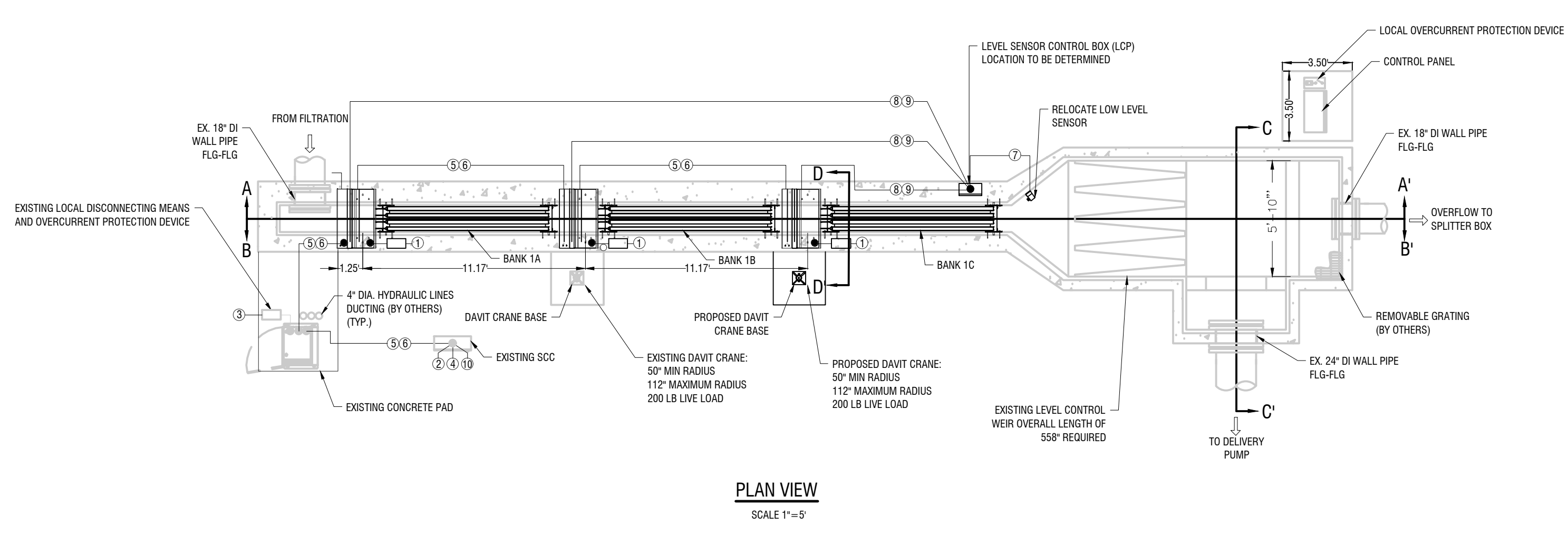
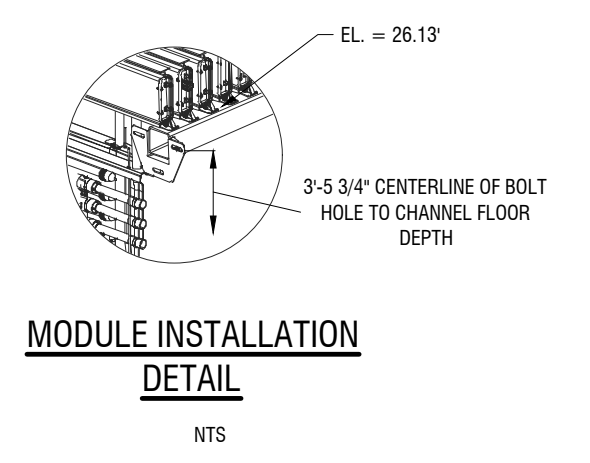
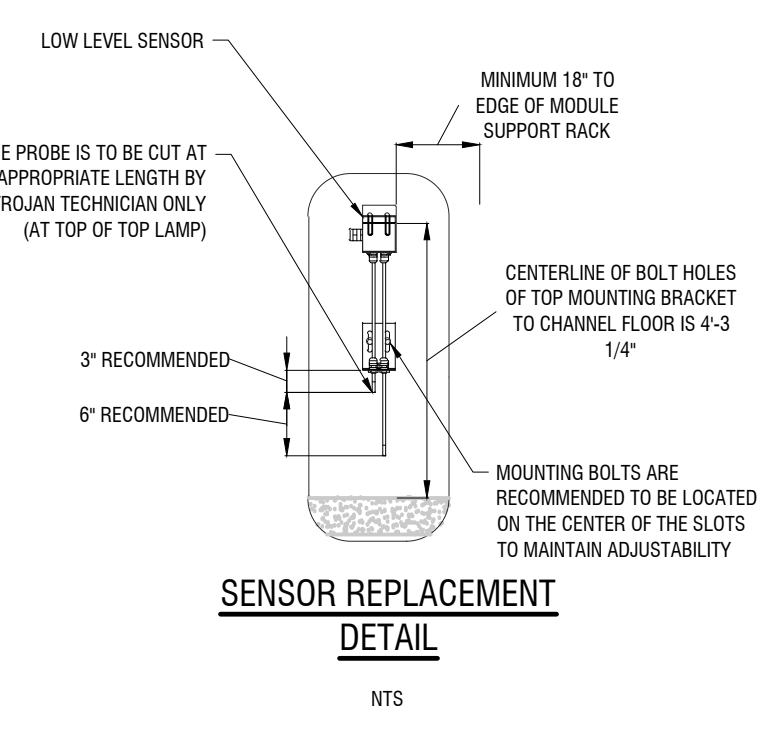
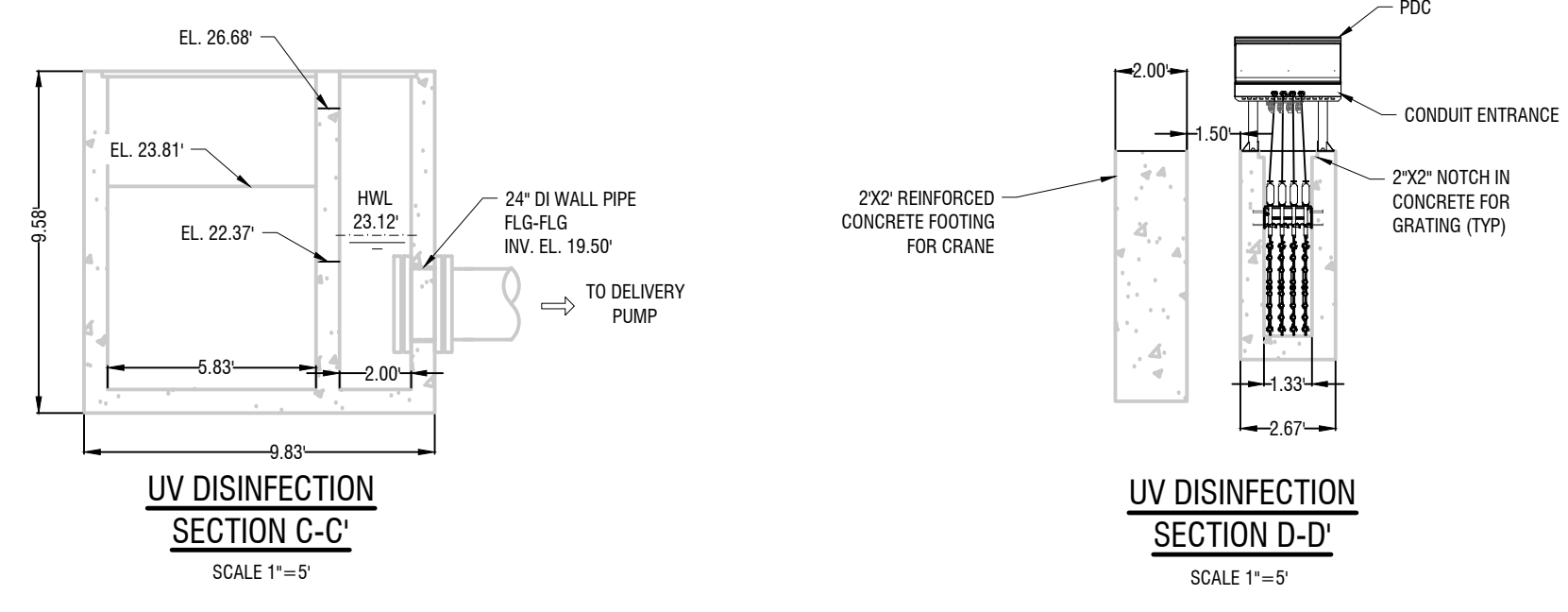


LIFT STATION DATA

PUMPING STATIONS	ELEV AT POINT
ELEV S	8.24
ELEV T	6.20
ELEV U	9.89
ELEV V	11.39
ELEV W	12.39
ELEV X	13.89
ELEV Y	25.20
ELEV Z	18.75

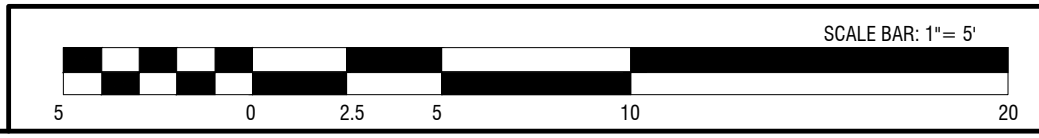
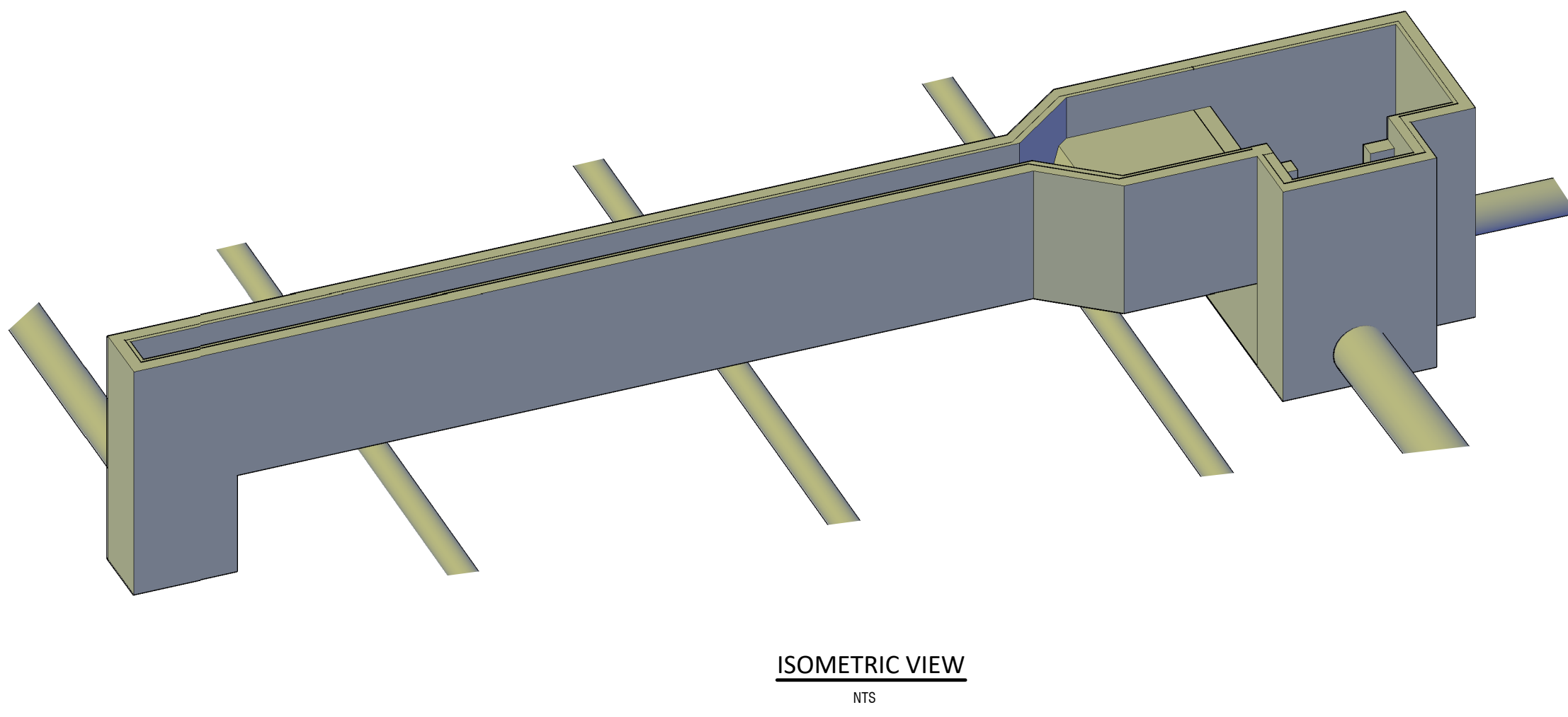
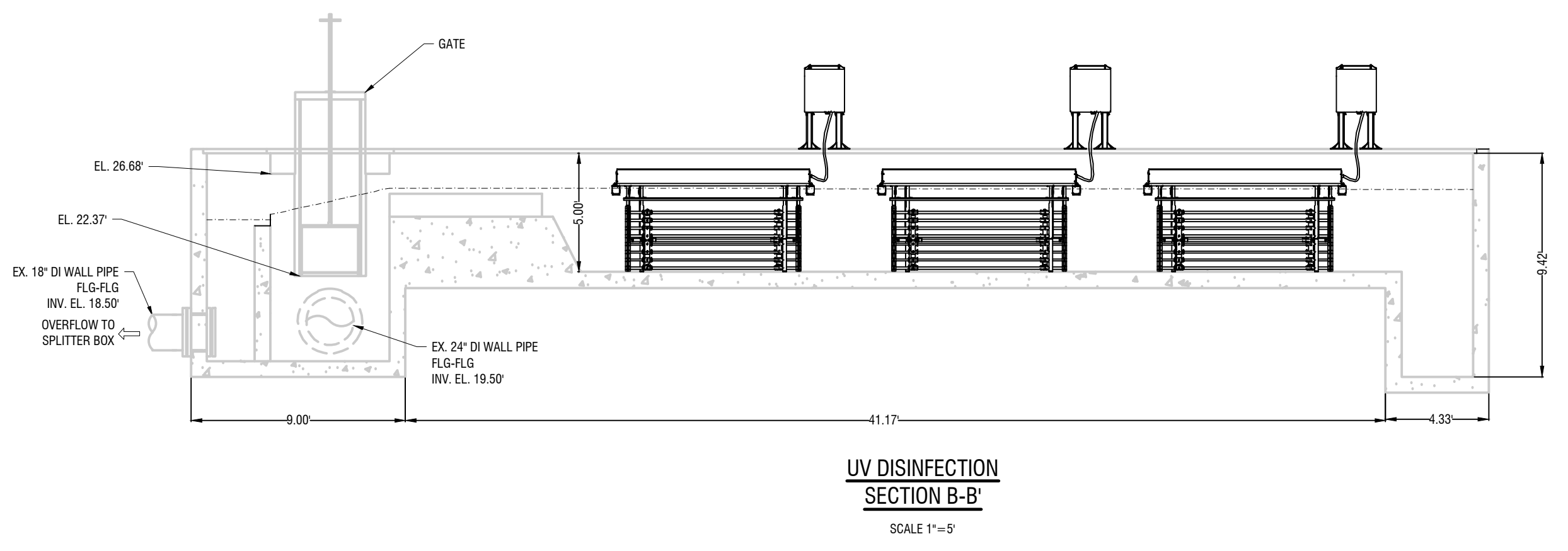
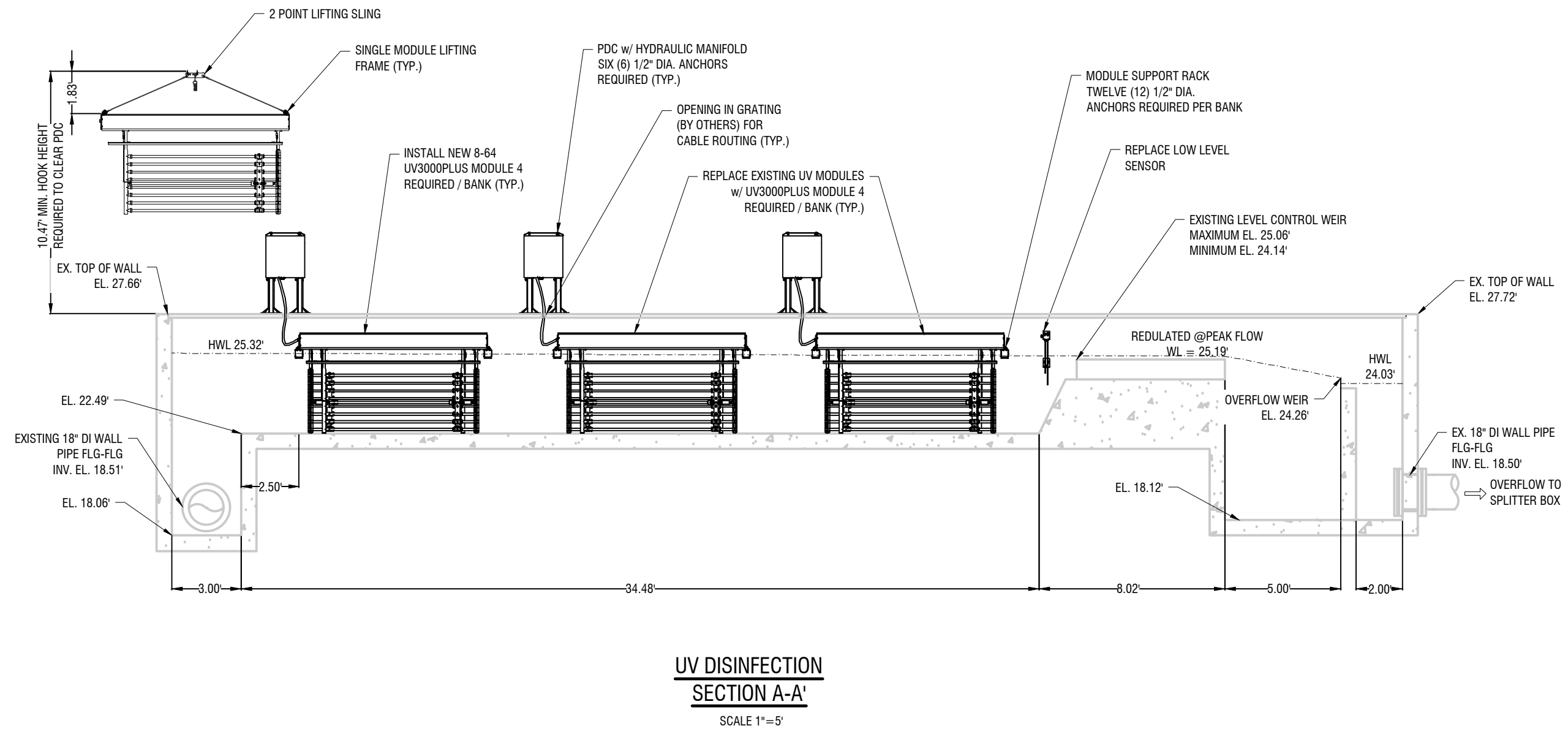
DUTY POINT
 950 GPM @ 56 TDH





- NOTES:
- ELECTRICAL REQUIREMENTS SHOWN ARE TO SUPPLY TROJAN UV EQUIPMENT ONLY. ELECTRICAL INRUSH FACTOR TO BE ADDED AS PER LOCAL CODE
 - CONTRACTOR TO REVIEW ALL TROJAN TECHNOLOGIES INSTALLATION INSTRUCTIONS PRIOR TO EQUIPMENT INSTALLATION.
 - EFFLUENT LEVELS SHOWN REFLECT HYDRAULICS ASSOCIATE WITH THE TROJAN EQUIPMENT ONLY. EFFLUENT LEVELS MAY CHANGE DUE TO CHANNEL DEBRIS.

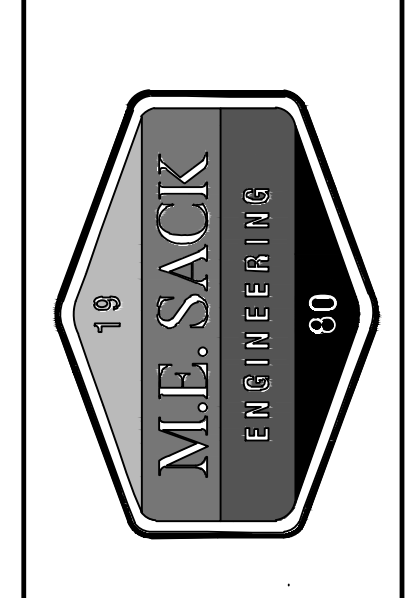
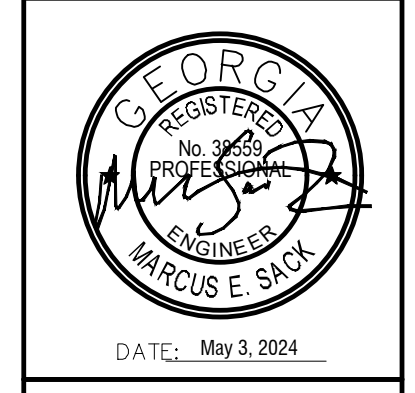
EQUIPMENT INTERCONNECTIONS			
No.	DESCRIPTION	FROM	TO
1	POWER DISTRIBUTION CENTER (PDC) POWER SUPPLY 480V/277V, 3 PHASE, 4 WIRE + GROUND 8.2 KVA/PDC POWER DRAW 15 AMPS MAXIMUM CURRENT/PHASE	DISTRIBUTION PANEL (DP) (BY OTHERS) (NOT SHOWN)	PDC
2	SYSTEM CONTROL CENTER (SCC) POWER SUPPLY 120V, 1 PHASE, 2 WIRE + GROUND 1.44 KVA, 12 AMPS	DISTRIBUTION PANEL (DP) (BY OTHERS) (NOT SHOWN)	SCC
3	HYDRAULIC SYSTEMS CENTER (HSC) POWER SUPPLY 480V, 3 PHASE, 2 WIRE + GROUND 2.5 KVA, 3 AMPS	DISTRIBUTION PANEL (DP) (BY OTHERS) (NOT SHOWN)	HSC
4	FLOW METER 4-20 mA, DC ANALOG INPUT (BY OTHERS)	FLOW METER PANEL (BY OTHERS)	SCC
5	GROUND LINK 14 AWG TYPE TWH STRANDED	SCC	PDC(S) THRU HSC (DAISY CHAINED)
6	MODBUS 1 SHIELDED TWISTED PAIR	SCC	PDC(S) THRU HSC (DAISY CHAINED)
7	DISCRETE LOW LEVEL SIGNAL 12 VDC - 2 CONDUCTORS	LOW LEVEL SENSOR	LEVEL SENSOR CONTROL BOX (LSCP)
8	DISCRETE WATER LEVEL SIGNAL 2 CONDUCTORS	LOW LEVEL SENSOR CONTROL BOX (LSCP)	PDC(S)
9	LEVEL SENSOR CONTROL BOX (LSCP)* POWER SUPPLY 24 VDC	PDC(S)	LEVEL SENSOR CONTROL BOX (LSCP)
10	MODBUS ETHERNET COMMUNICATION	SCC	PLANT SCADA (BY OTHERS) (NOT SHOWN)



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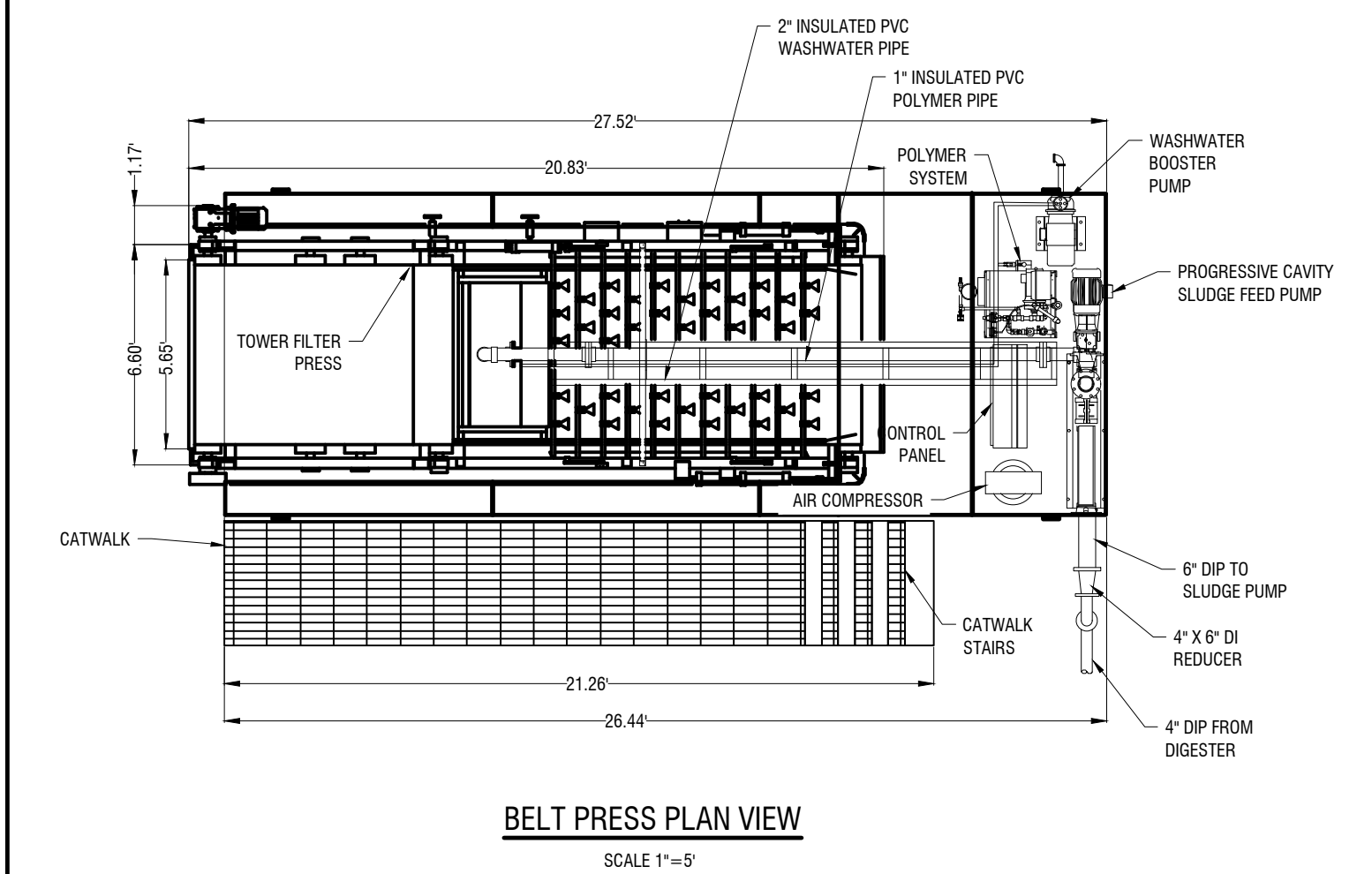
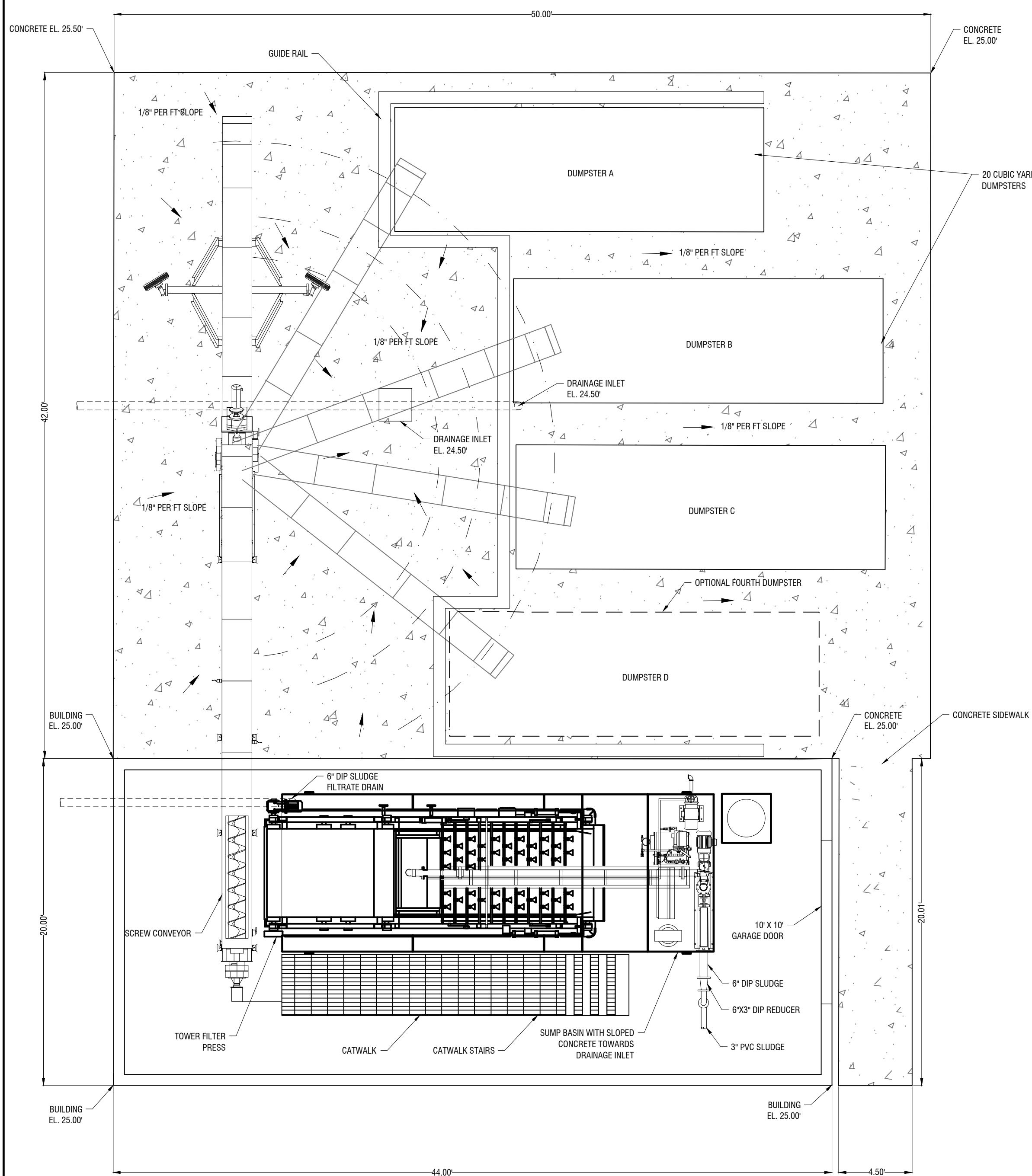
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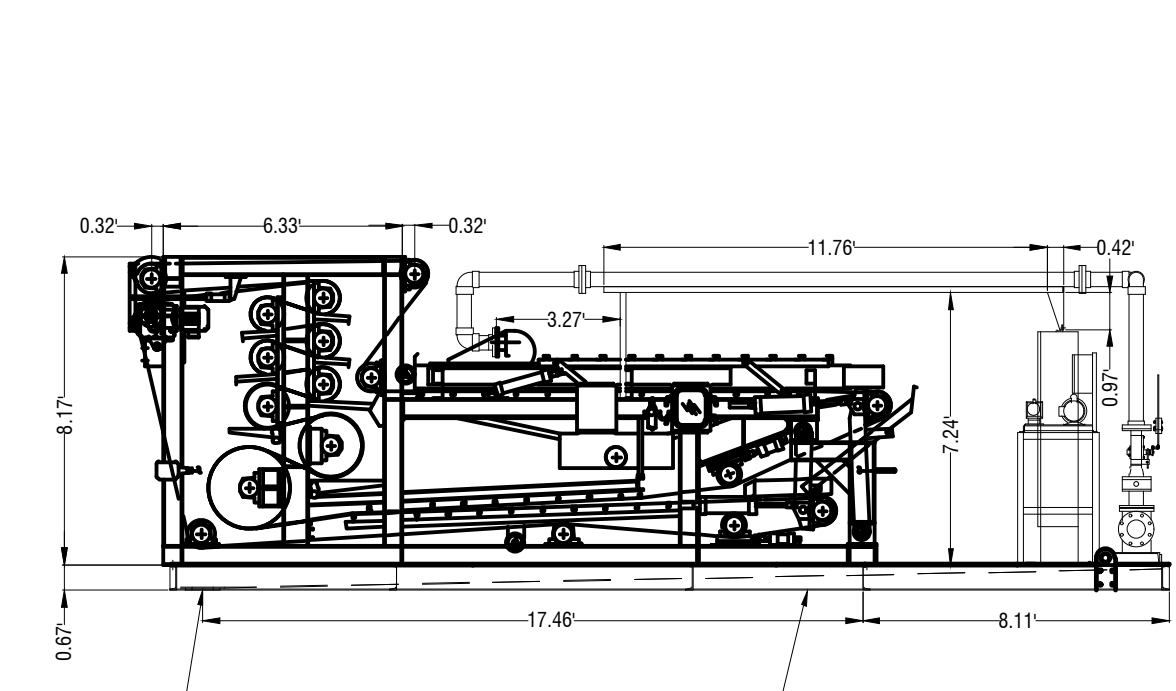
UV DISINFECTION

M19

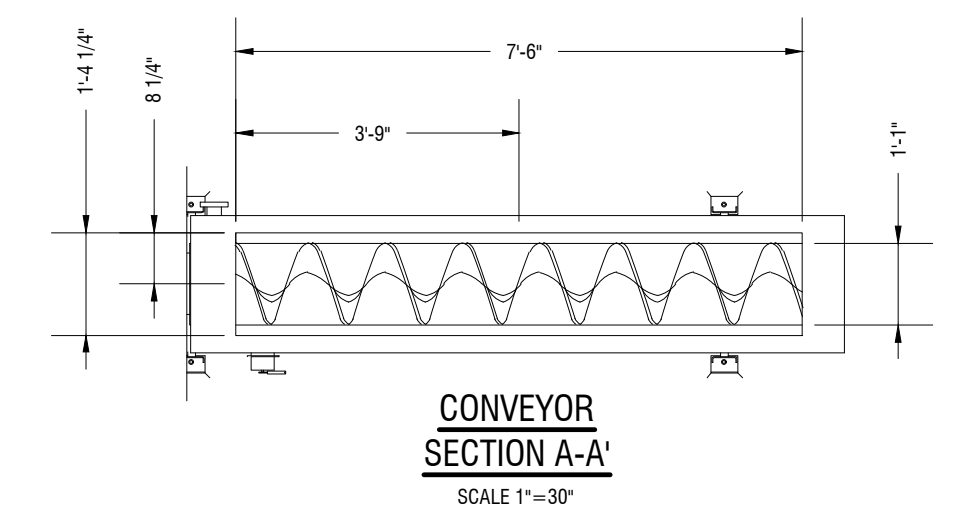
FILE NO: 2020-10 PRJ
PLOT DATE: May 3, 2024



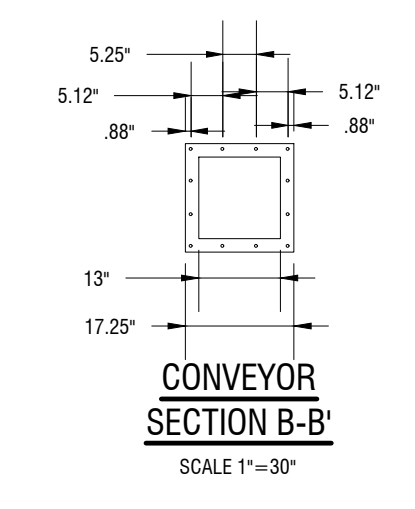
BELT PRESS PLAN VIEW
SCALE 1"=5'



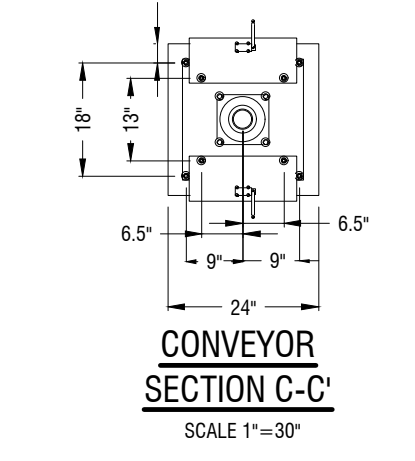
BELT PRESS PROFILE VIEW
SCALE 1"=5'



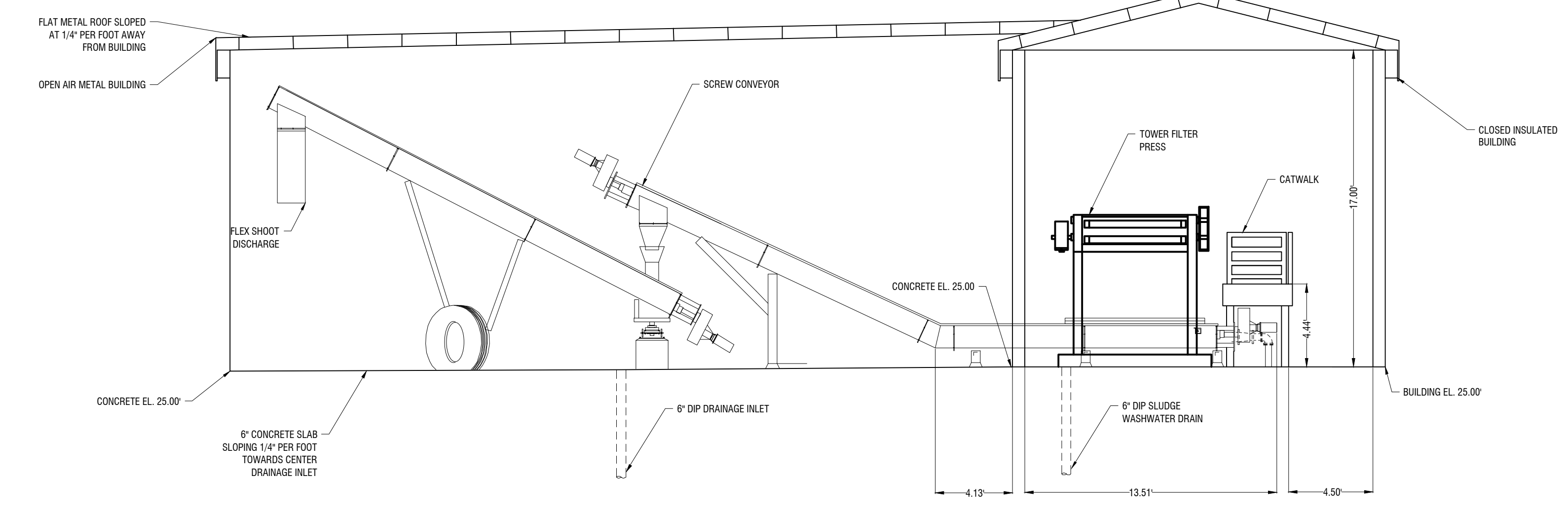
CONVEYOR SECTION A-A
SCALE 1"=30'



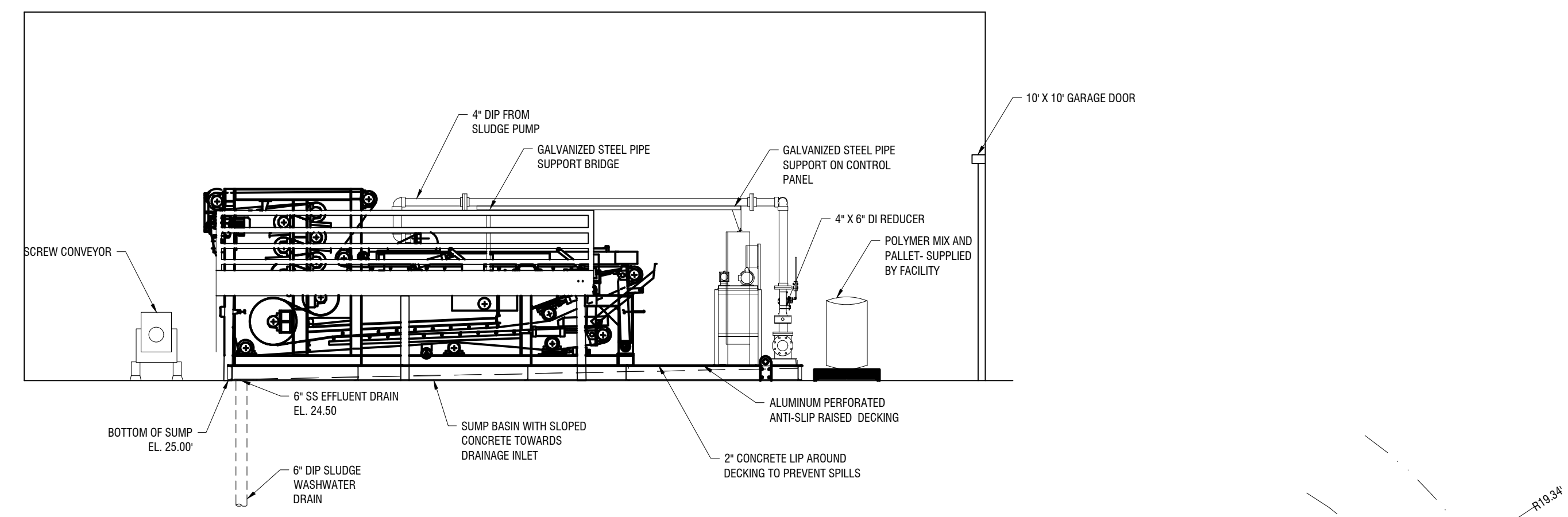
CONVEYOR SECTION B-B
SCALE 1"=30'



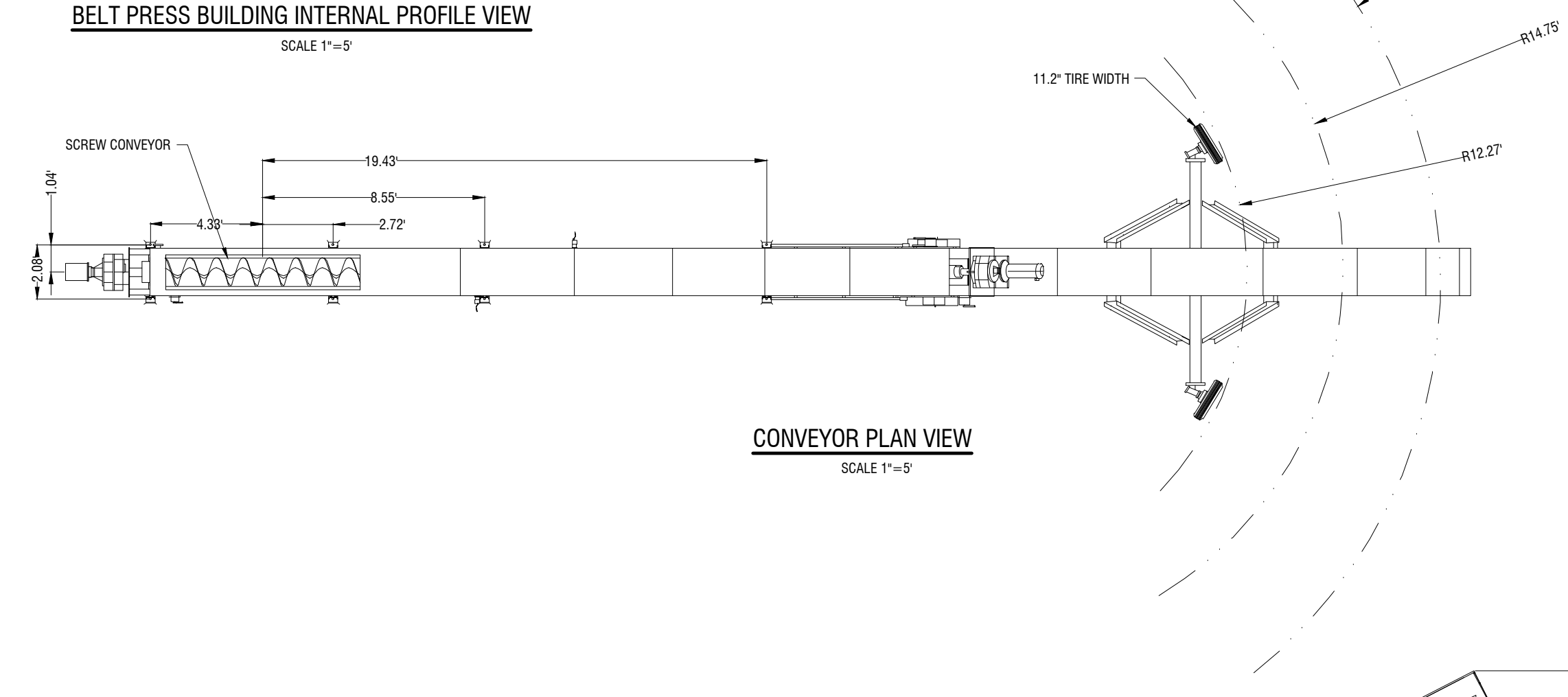
CONVEYOR SECTION C-C
SCALE 1"=30'



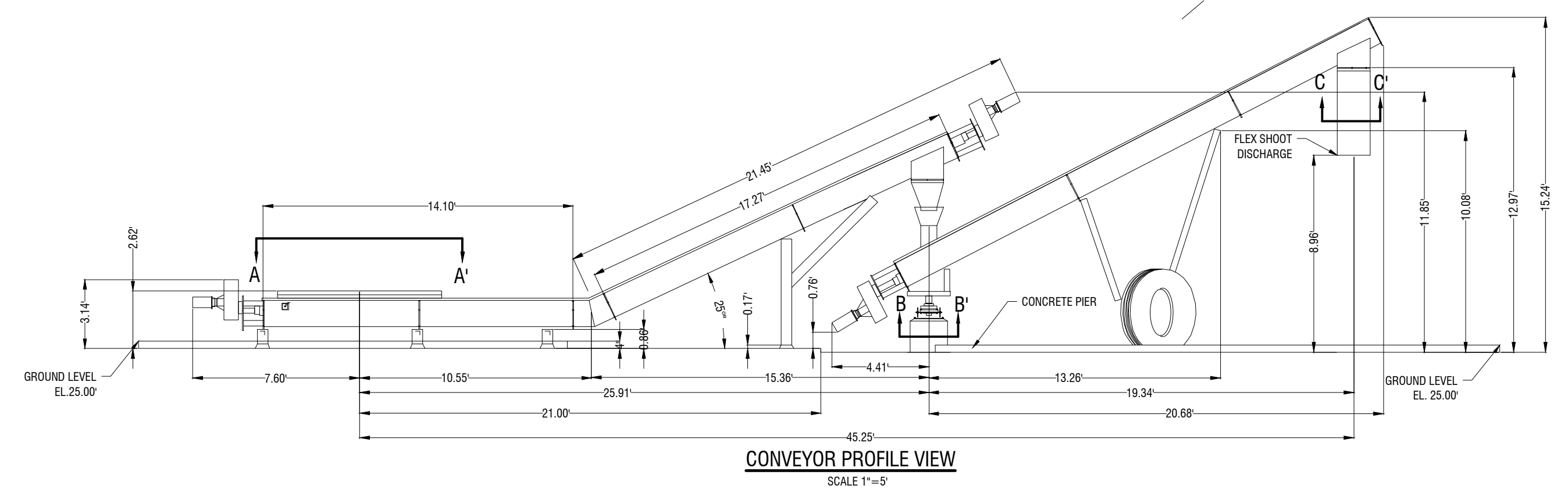
BELT PRESS BUILDING PROFILE VIEW
SCALE 1"=5'



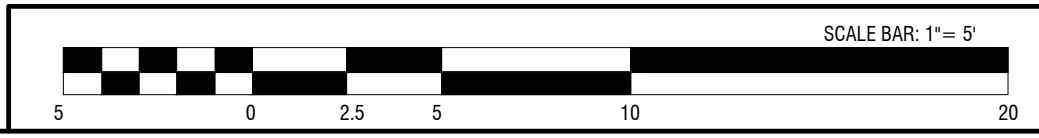
BELT PRESS BUILDING INTERNAL PROFILE VIEW
SCALE 1"=5'



CONVEYOR PLAN VIEW
SCALE 1"=5'



CONVEYOR PROFILE VIEW
SCALE 1"=5'



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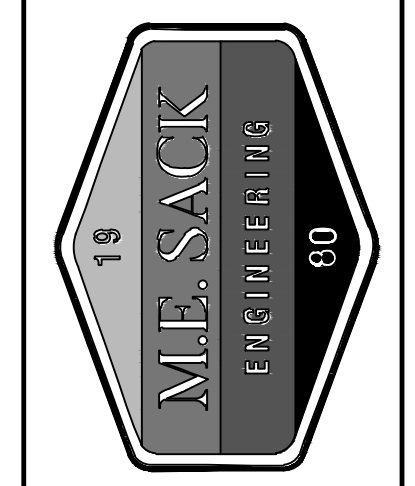
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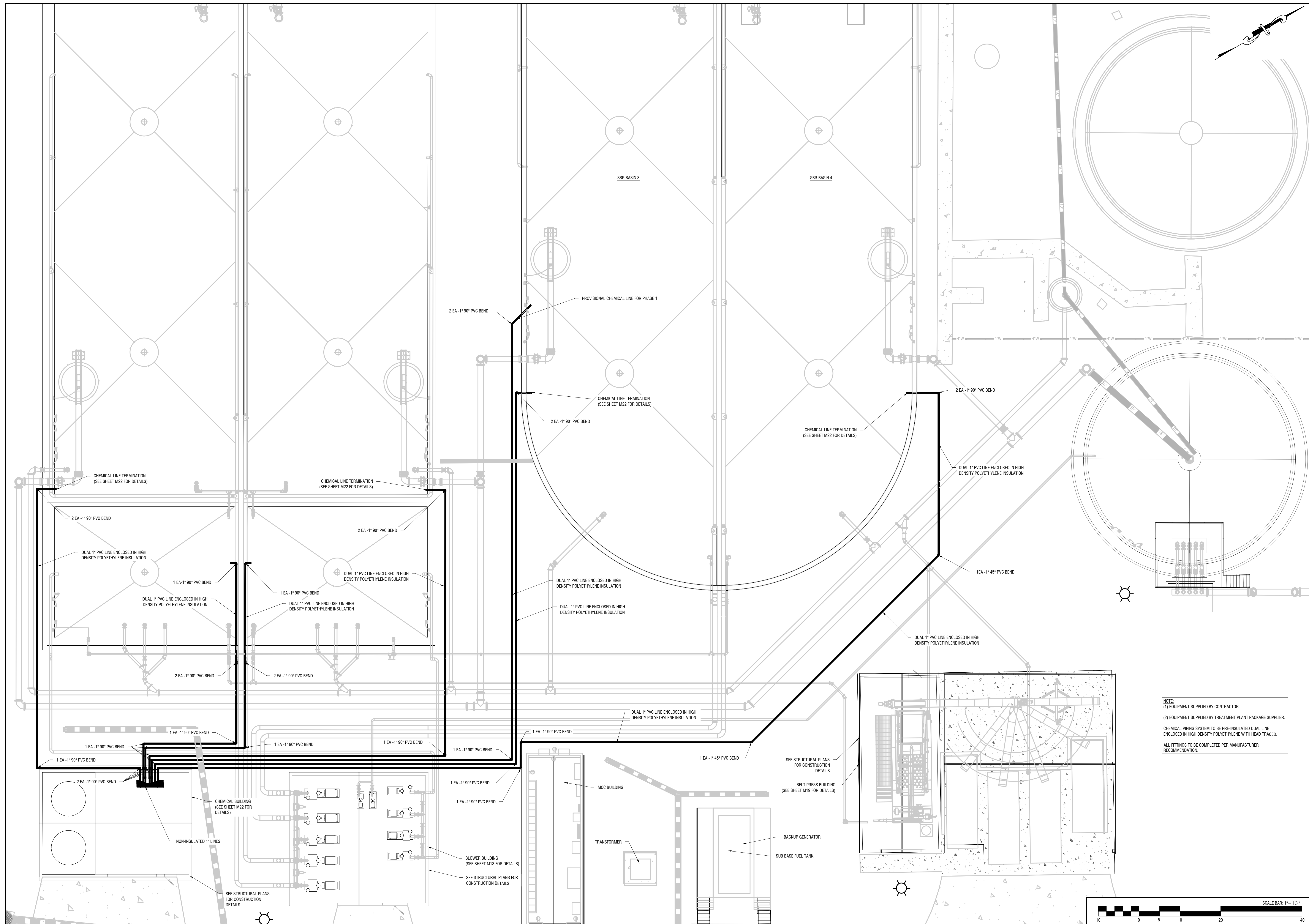
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BELT PRESS

M20

FILE NO: 2020-10 PRJ
PLOT DATE: May 3, 2024



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NOTE:
 (1) EQUIPMENT SUPPLIED BY CONTRACTOR.
 (2) EQUIPMENT SUPPLIED BY TREATMENT PLANT PACKAGE SUPPLIER.
 CHEMICAL PIPING SYSTEM TO BE PRE-INSULATED DUAL LINE ENCLOSED IN HIGH DENSITY POLYETHYLENE WITH HEAD TRACED.
 ALL FITTINGS TO BE COMPLETED PER MANUFACTURER RECOMMENDATION.

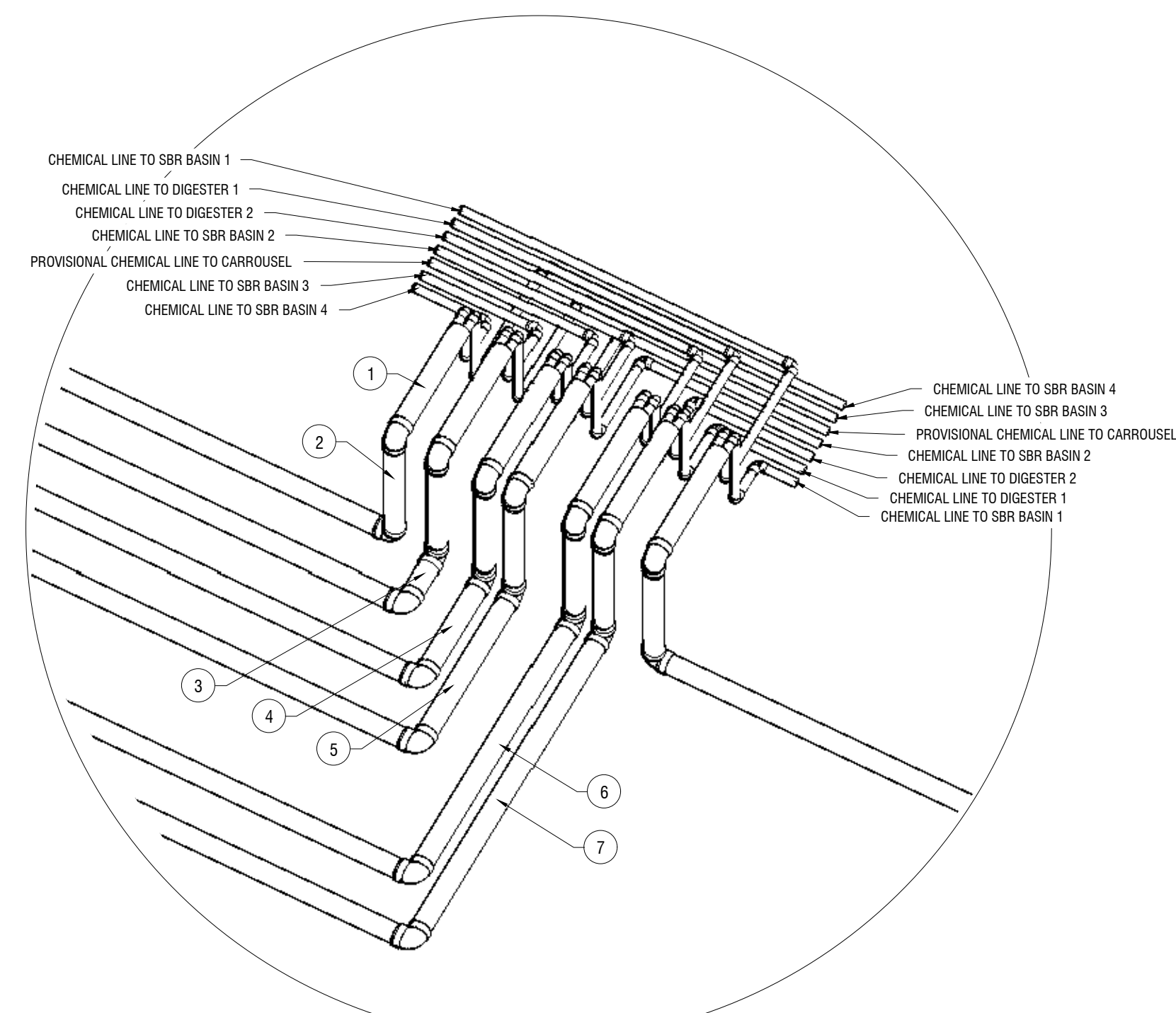
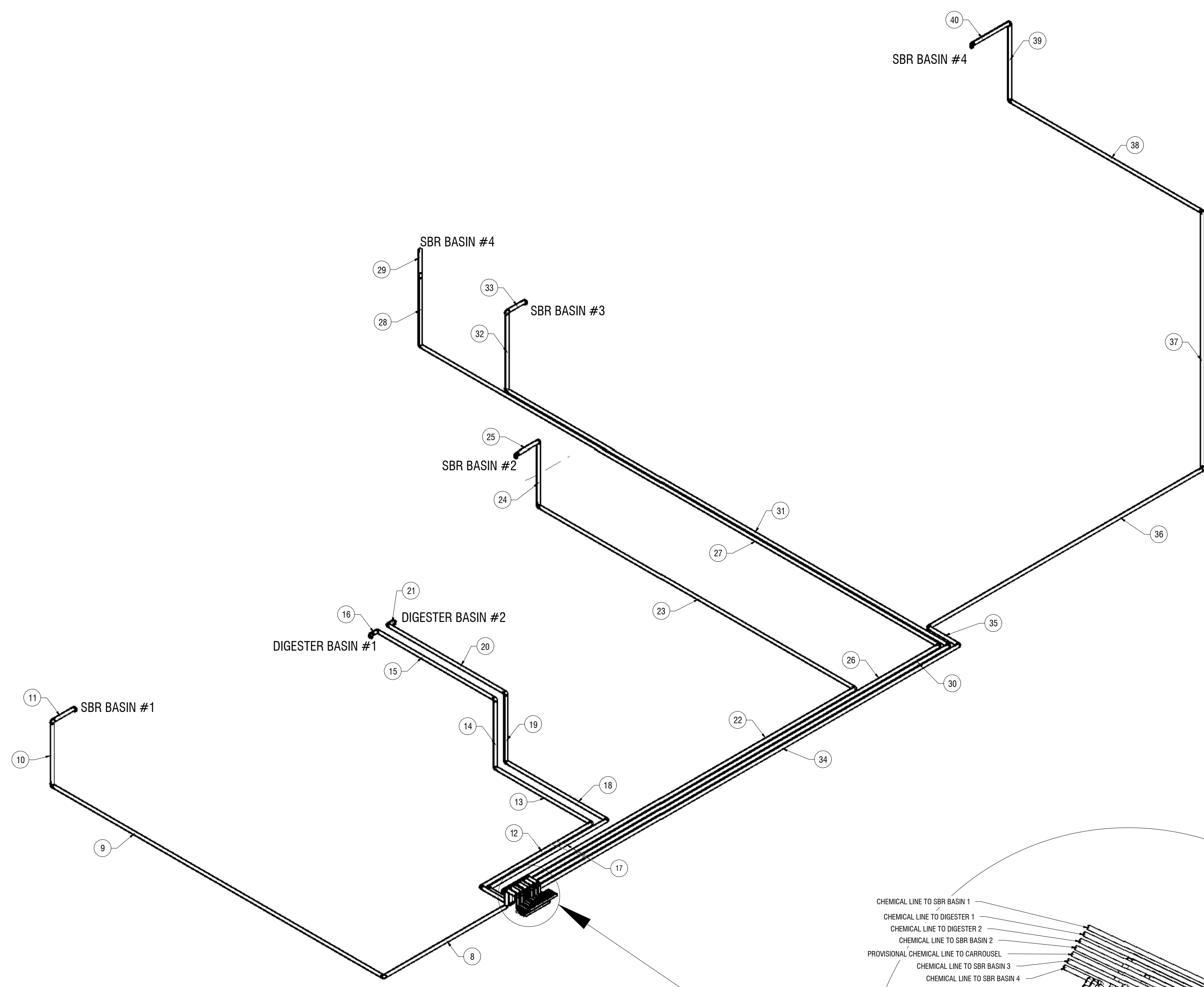
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CHEMICAL SYSTEM PLAN VIEW

M21

SCALE BAR: 1" = 10'
 10 0 5 10 20 40

FILE NO: 2020-10 PRJ
 PLOT DATE: May 3, 2024



CHEMICAL PIPE ISOMETRIC VIEW
1" = 10'

CHEMICAL PIPE DETAIL VIEW
1" = 2'

M					
TAG	LINE	MATERIAL	SIZE	LENGTH	ELEVATION
1 (X 7)	ALL LINES	PVC	DUAL 1"	2'-0"	27.00'
2 (X 7)	ALL LINES	PVC	DUAL 1"	2'-8"	-
3	SBR BASIN 3	PVC	DUAL 1"	0'-8"	24.00'
4	PROVISIONAL CARROUSEL	PVC	DUAL 1"	1'-6"	24.00'
5	SBR BASIN 2	PVC	DUAL 1"	2'-6"	24.00'
6	DIGESTER 2	PVC	DUAL 1"	4'-7"	24.00'
7	DIGESTER 1	PVC	DUAL 1"	5'-6"	24.00'
8	SBR BASIN 1	PVC	DUAL 1"	24'-9"	24.00'
9	SBR BASIN 1	PVC	DUAL 1"	68'-0"	24.00'
10	SBR BASIN 1	PVC	DUAL 1"	12'-0"	-
11	SBR BASIN 1	PVC	DUAL 1"	4'-0"	36.50'
12	DIGESTER 1	PVC	DUAL 1"	22'-5"	24.00'
13	DIGESTER 1	PVC	DUAL 1"	19'-4"	24.00'
14	DIGESTER 1	PVC	DUAL 1"	12'-0"	-
15	DIGESTER 1	PVC	DUAL 1"	24'-0"	36.50'
16	DIGESTER 1	PVC	DUAL 1"	1'-0"	36.50'
17	DIGESTER 2	PVC	DUAL 1"	24'-0"	24.00'
18	DIGESTER 2	PVC	DUAL 1"	20'-6"	24.00'
19	DIGESTER 2	PVC	DUAL 1"	12'-0"	-
20	DIGESTER 2	PVC	DUAL 1"	24'-0"	36.50'
21	DIGESTER 2	PVC	DUAL 1"	1'-0"	36.50'
22	SBR BASIN 2	PVC	DUAL 1"	72'-2"	24.00'
23	SBR BASIN 2	PVC	DUAL 1"	64'-9"	24.00'
24	SBR BASIN 2	PVC	DUAL 1"	12'-0"	-
25	SBR BASIN 2	PVC	DUAL 1"	4'-0"	36.50'
26	PROVISIONAL CARROUSEL	PVC	DUAL 1"	88'-0"	24.00'
27	PROVISIONAL CARROUSEL	PVC	DUAL 1"	106'-7"	24.00'
28	PROVISIONAL CARROUSEL	PVC	DUAL 1"	12'-0"	-
29	PROVISIONAL CARROUSEL	PVC	DUAL 1"	6'-6"	36.50'
30	SBR BASIN 3	PVC	DUAL 1"	88'-2"	24.00'
31	SBR BASIN 3	PVC	DUAL 1"	90'-8"	24.00'
32	SBR BASIN 3	PVC	DUAL 1"	13'-6"	-
33	SBR BASIN 3	PVC	DUAL 1"	3'-6"	38.00'
34	SBR BASIN 4	PVC	DUAL 1"	88'-8"	24.00'
35	SBR BASIN 4	PVC	DUAL 1"	6'-0"	24.00'
36	SBR BASIN 4	PVC	DUAL 1"	56'-3"	24.00'
37	SBR BASIN 4	PVC	DUAL 1"	64'-7"	24.00'
38	SBR BASIN 4	PVC	DUAL 1"	39'-5"	24.00'
39	SBR BASIN 4	PVC	DUAL 1"	13'-6"	-
40	SBR BASIN 4	PVC	DUAL 1"	7'-3"	38.00'

NOTES:
ALL LINES TO BE PRE-INSULATED DUAL LINE ENCLOSED IN HIGH DENSITY POLYETHYLENE WITH HEAD TRACED.
ALL FITTINGS TO BE COMPLETED PER MANUFACTURER RECOMMENDATION.

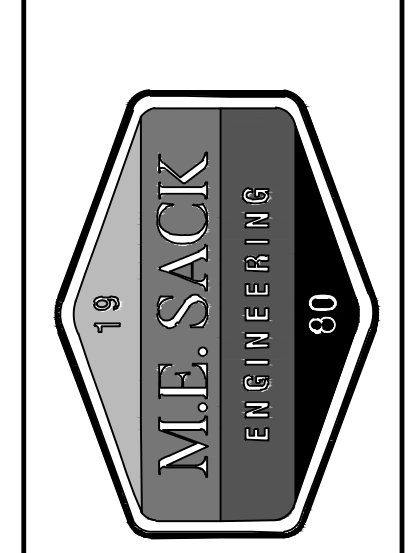
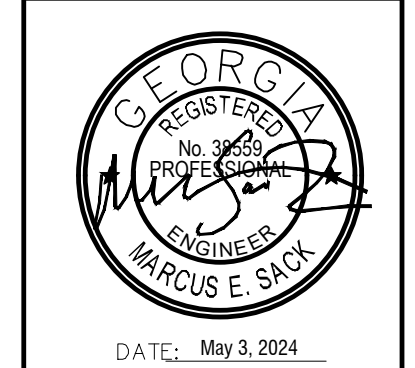


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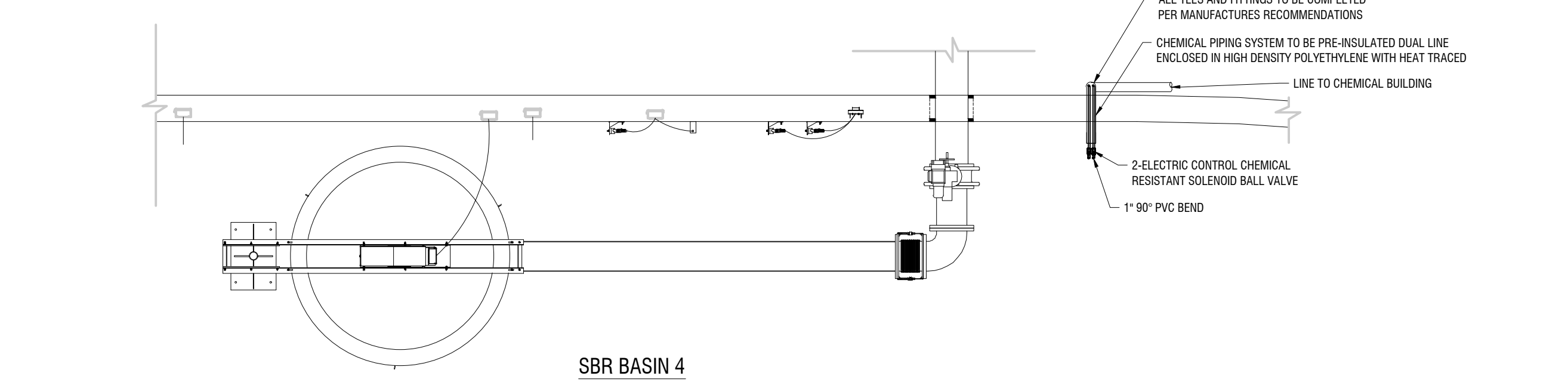
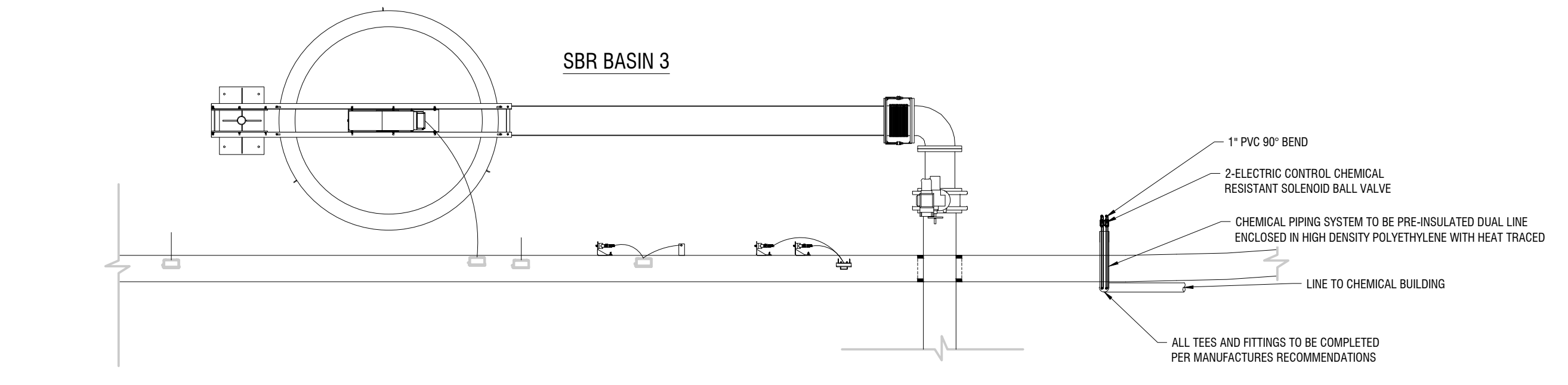
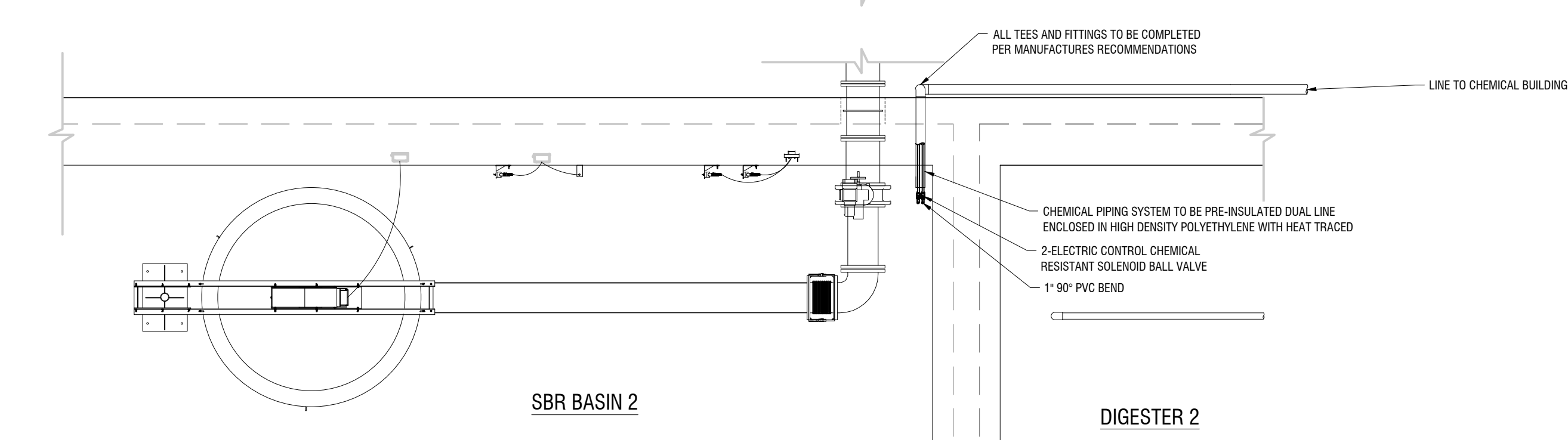
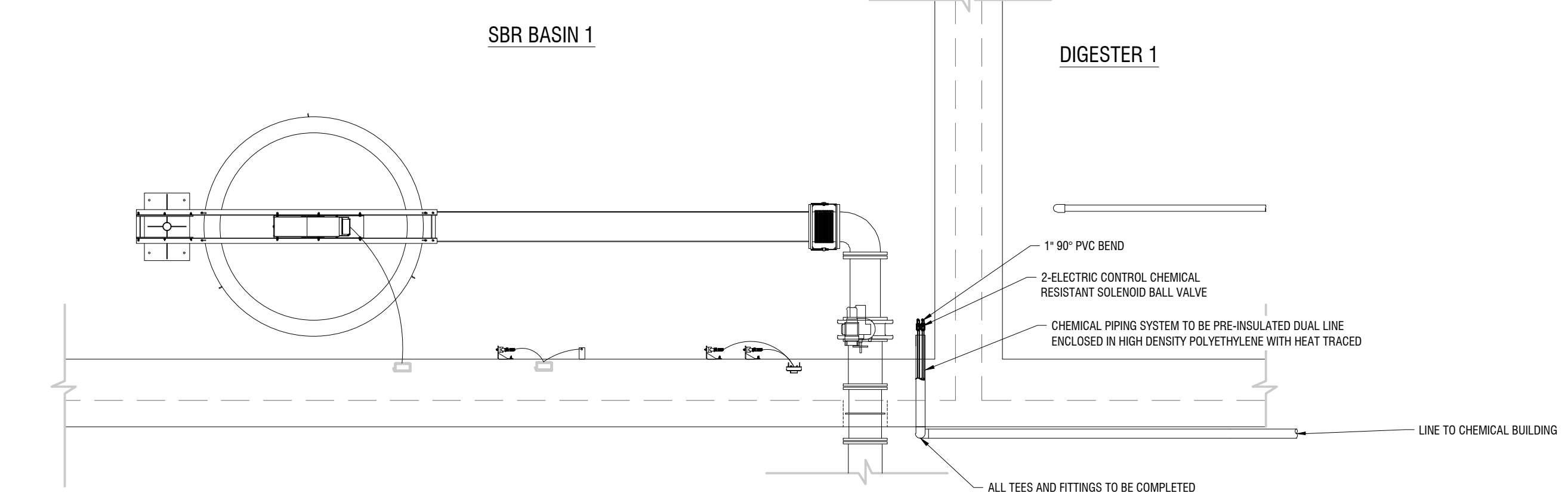
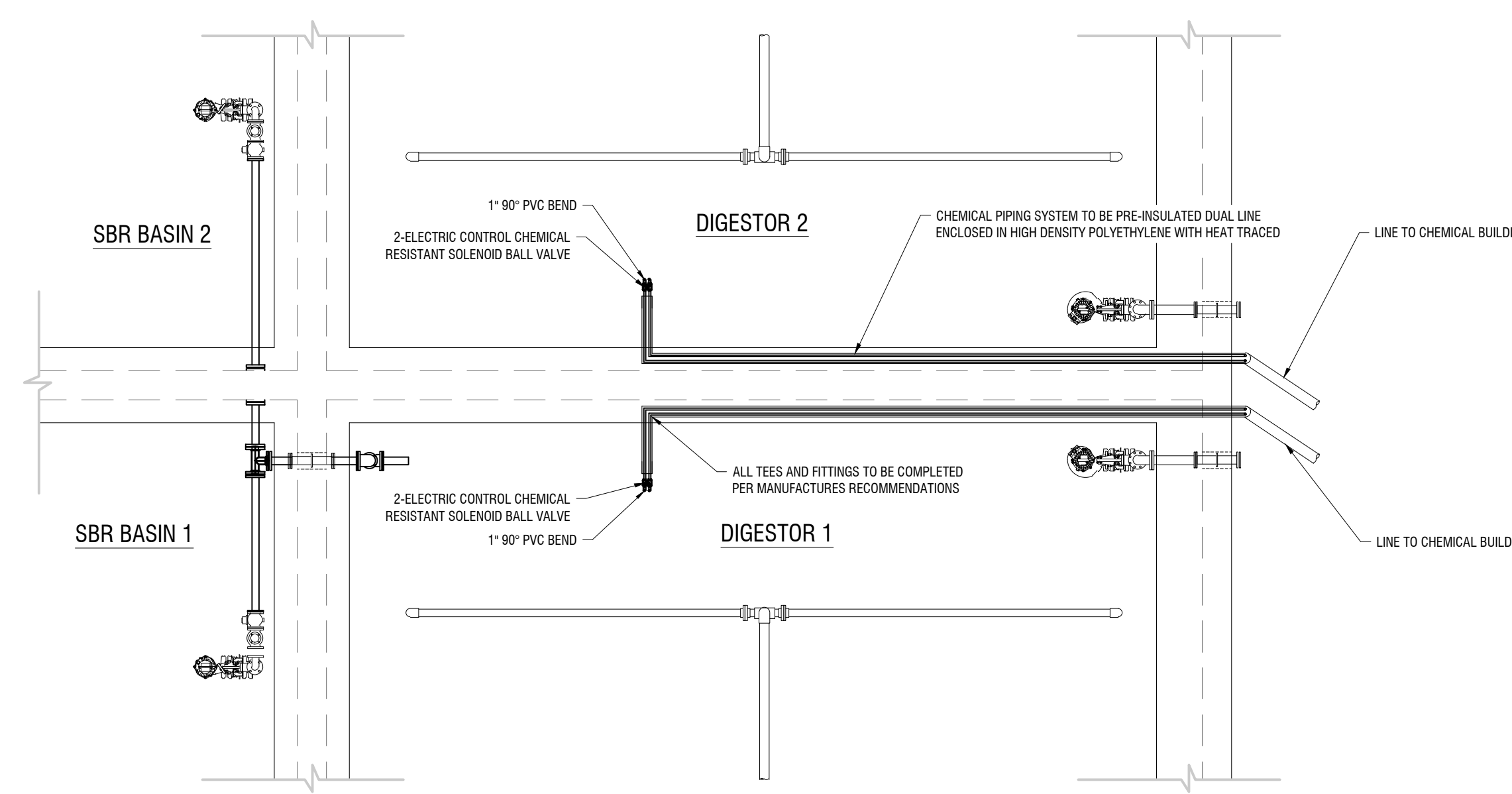
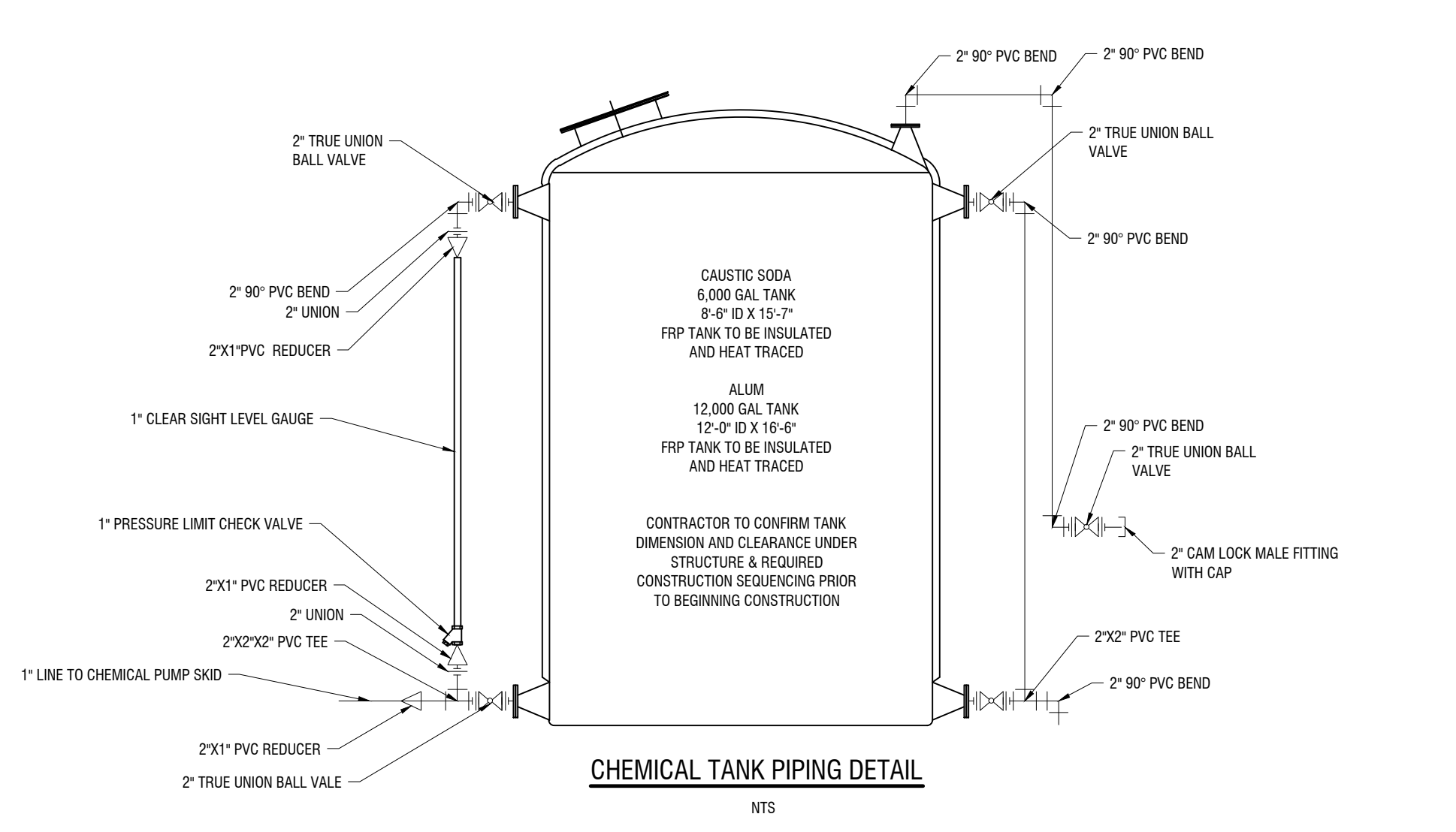
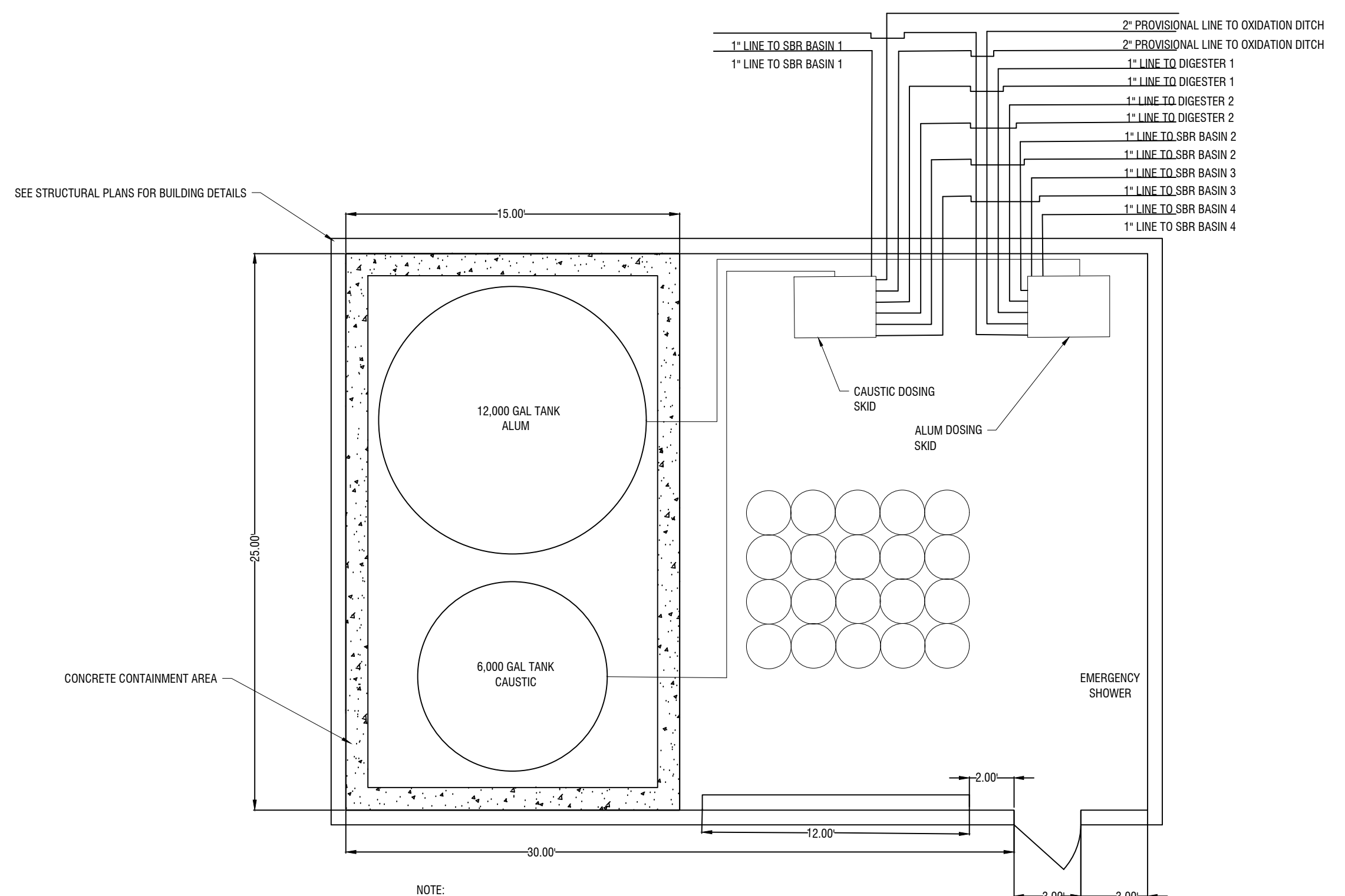
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CHEMICAL PIPE ISOMETRIC PLAN

M22

FILE NO: 2020-10 PRJ
PLOT DATE: May 3, 2024

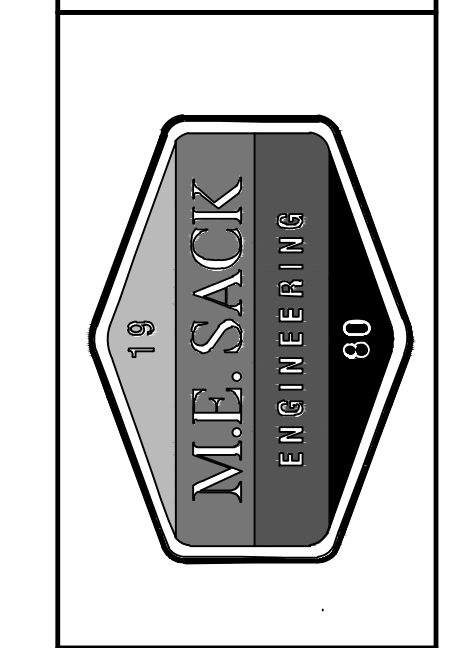
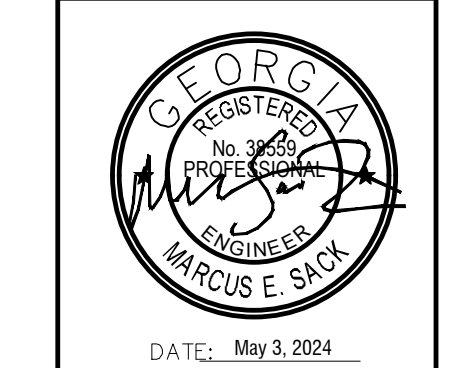


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CHEMICAL SYSTEM DETAILS

M23

FILE NO: 2020-10 PRJ
 PLOT DATE: May 3, 2024



LEGEND		ABBREVIATIONS	
SYMBOL	DESCRIPTION	A OR AMP	AMPERES
	A-1,3,5 TO ARROW INDICATES HOME-RUN OF CIRCUITS 1,3,5 TO PANEL A. 3,5 OR A-3,5 ADJACENT 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.	AFF	ABOVE FINISHED FLOOR
	CEILING OUTLET AND LIGHTING FIXTURE	AIC	AMPERE INTERRUPTING CAPACITY
	WALL OUTLET AND LIGHTING FIXTURE	AM	AMMETER
	WALL OUTLET AND LIGHTING FIXTURE - EGRESS/EMERGENCY LIGHTING	ARC	ALUMINUM RIGID CONDUIT
	OUTLET AND EXIT LIGHT - LETTERS INDICATE FIXTURE TYPE. PROVIDE ARROWS INDICATED	AS	AMMETER SELECTOR SWITCH
	AREA LIGHT MOUNTED TO SERVICE POLE, 25' AFG	ASYM	ASYMMETRICAL
	POLE TOP FLOOD LIGHTS, POLE, AND CONCRETE BASE - SEE FIXTURE TYPES K & L IN LIGHT FIXTURE SCHEDULE	ATS	AUTOMATIC TRANSFER SWITCH
	WALL MOUNTED TWO HEAD EMERGENCY FIXTURE	C	CONDUIT
	PHOTOCELL, TORK MODEL 2107, MOUNTED UNDER EAVE	CB	CIRCUIT BREAKER
	SBR CONNECTION BOX	CKT	CIRCUIT
	WEATHERPROOF JUNCTION BOX MOUNTED TO CONCRETE STRUCTURE	CLF	CURRENT LIMITING FUSE
	POLYMER CONCRETE JUNCTION BOX MOUNTED FLUSH IN GRADE - SEE SCHEDULE THIS SHEET	CNTL	CONTROL
	DUPLEX RECEPTACLE- MT. 16" AFF, NUMBER DESIGNATES LOCAL BRANCH CIRCUIT SERVING OUTLET	CT	CURRENT TRANSFORMER
	DUPLEX RECEPTACLE- MT. 48" AFF AND/OR ABOVE COUNTER TOP	CU	COPPER
	WEATHERPROOF DUPLEX RECEPTACLE, MT. 16" ABOVE FLOOR AND 36" ABOVE EARTH W/ IN-USE COVER, TYPE 'WR' RECEPTACLE	D	DEPTH
	SPECIAL PURPOSE RECEPTACLE, CAPITAL LETTER INDICATES TYPE- REFER TO SPECS OR SCHEDULE	DISC	DISCONNECT SWITCH
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE- MT. 48" AFF AND/OR ABOVE COUNTER TOP OR AS INDICATED	DISC SW	DISCONNECT SWITCH
	DOUBLE DUPLEX RECEPTACLE- MT. 16" AFF	EXP	EXPLOSION PROOF
	DUPLEX RECEPTACLE, NEMA 5-20R- MT. 16" AFF	F	FUSE
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE WITH IN-USE COVER, NOTE G6.	FA	FIRE ALARM
	TELEPHONE OUTLET- MT. 16" AFF U.N.O. EXTEND 1" C TO ABOVE ACCESSIBLE CEILING	FACP	FIRE ALARM CONTROL PANEL
	TELEVISION OUTLET - MT. 96" AFF U.N.O. EXTEND/ CT. ABOVE ACCESSIBLE CEILING	FMPX	FIRE ALARM MULTIPLEX PANEL
	SINGLE POLE TOGGLE SWITCH- MT. 48" UP	G OR GND	GROUND
	THREE-WAY TOGGLE SWITCH- MT. 48" UP	GF	GROUNDFAULT
	MOTOR RATED SWITCH WITH OVERLOAD PROTECTION - MT. 48" UP.	H	HEIGHT
	MOTOR RATED DISCONNECT SWITCH, SINGLE PHASE - MT. 48" UP.	HP	HORSEPOWER
	CABLE TRAY - NOTE G18	JB OR J	JUNCTION BOX
	EMERGENCY GENERATOR POWER-OFF PUSHBUTTON STATION - WEATHERPROOF	KVA	KILOVOLT - AMPS
	PANELBOARD, SURFACE MOUNTED	KW	KILOWATTS
	TELEPHONE OR SIGNAL BACKBOARD, 3/4" X 4' X 8' UNLESS NOTED	L	LENGTH
	DRY-TYPE TRANSFORMER - VOLTAGE, PHASE, AND KVA AS INDICATED	LA	LIGHTNING ARRESTOR
	EQUIPMENT AS NOTED	LBS	POUNDS
	ELECTRIC METER	MCB OR MB	MAIN CIRCUIT BREAKER
	MOTOR, HORSEPOWER AS INDICATED	MH OR MTG	MOUNTING HEIGHT
	NON-FUSIBLE DISCONNECT SWITCH, RATING/POLES/ENCLOSURE AS INDICATED	MLO	MAIN LUGS ONLY
	MAGNETIC STARTER	MT OR MTD	MOUNT OR MOUNTED
	COMBINATION MAGNETIC STARTER/NON-FUSIBLE DISCONNECT SWITCH	NEC	NATIONAL ELECTRICAL CODE
	ELECTRIC THERMOSTAT- MT. 54" A.F.F.	NFPA	NATIONAL FIRE PROTECTION ASSOC.
	RACEWAY INSTALLED CONCEALED IN WALLS AND/OR ABOVE CEILING	NTS	NOT TO SCALE
	RACEWAY INSTALLED CONCEALED IN/OR BELOW FLOOR SLAB OR BELOW GRADE	P	POLE
	RACEWAY INSTALLED EXPOSED	PMT	PAD MOUNT TRANSFORMER
	FLEXIBLE METALLIC RACEWAY	PNL	PANELBOARD
	CONDUIT STUB-UP AND HOMERUN	RC	REMOTE CONTROL SWITCH
	CONDUIT UP/CONDUIT DOWN	RECEPT	RECEPTACLE
	CONDUIT TERMINATION, STUB-OUT	RMS	ROOT MEAN SQUARE
	GROUND	SPD	SURGE PROTECTION DEVICE
	GROUND ROD LOCATION, NOTE G8	SS	STAINLESS STEEL, 316, UNO
	FLOW METER, ULTRASONIC TYPE, PROVIDED BY OTHERS	SW	SWITCH
	SOLENOID VALVE, PROVIDED WITH EQUIPMENT, FIELD INSTALLED AND WIRED.	SWBD	SWITCHBOARD
	PRESSURE SWITCH, PROVIDED WITH EQUIPMENT, FIELD INSTALLED AND WIRED	SYM	SYMMETRICAL
	ALARM LIGHT & HORN, 120 VAC: HORN-FEDERAL SIGNAL 350WB-120, LIGHT-FEDERAL SIGNAL FB2PST-120R	TBB	TELEPHONE BACKBOARD
	UNDERGROUND SCADA CIRCUIT. SEE 1/E15	TYP	TYPICAL
	FIRE ALARM SYSTEM - NOTE G17	UG	UNDERGROUND
	FIRE ALARM CONTROL PANEL	UL	UNDERWRITERS LABORATORIES
	FIRE ALARM PULL STATION, 48" AFF	UNO	UNLESS NOTED OTHERWISE
	FIRE ALARM HORN/VISUAL STROBE, 80" AFF	V	VOLTS
		VM	VOLTMETER
		VS	VOLTMETER SELECTOR SWITCH
		W	WIDTH
		W/	WITH
		WHDM	WATT HOUR DEMAND METER
		WM	WATTMETER
		WP	WEATHER PROOF
		XFMR	TRANSFORMER

- GENERAL NOTES:** (FOR ALL DRAWINGS WHERE APPLICABLE)
- WHEN CONDUCTOR SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.
 - 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.
 - PIPING HEAT TAPE CONNECTIONS SHALL BE DIRECT CONNECTIONS.
 - GROUNDING CONDUCTORS SHALL BE PROVIDED FOR ALL BRANCH CIRCUITS. REFER TO SECONDARY GROUNDING SPECIFICATION SECTION.
 - 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.
 - THE RECEPTACLE SHALL BE MOUNTED TO STAINLESS STEEL CHANNELS ON THE TOP OF THE SBR TANK WALL. REFER TO DETAIL 8/E1A. PROVIDE WEATHER RESISTANT TYPE "WR".
 - THE AUTOMATIC TRANSFER SWITCH SHALL PROVIDE A PRE-TRANSFER AND POST-TRANSFER SIGNAL TO THE IN-PLANT SCADA SYSTEM AND TO THE AQUAROBIOS CONTROL PANEL. THE SCADA AND AQUAROBIOS PANELS SHALL PROVIDE THE LOAD STEP SEQUENCE REQUIRED IN SPECIFICATION SECTION 16210.
 - 3/4" x 10' COPPER CLAD GROUND ROD DRIVEN TO 12" BELOW FINISH GRADE TO TOP. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD.
 - THE GENERATOR ALARMS AND CONDITION/STATUS SHALL BE ANNUNCIATED TO THE IN-PLANT SCADA SYSTEM AND ALARMS/STATUS DISPLAYED ON THE OPERATORS TERMINAL. COORDINATE TRANSMISSION OF SIGNAL FROM THE GENERATOR THROUGH THE IN-PLANT SCADA SYSTEM, TO THE CONTROL ROOM.
 - REFER TO SPECIFICATION SECTION 16055 FOR REQUIRED SHORT CIRCUIT COORDINATION AND ARC FLASH STUDY.
 - REFER TO SPECIFICATION SECTION 16481 FOR REQUIRED HARMONIC ANALYSIS STUDY FOR IEEE 519 COMPLIANCE.
 - PROVIDE FOR HAZARDOUS INSTALLATIONS AS REQUIRED BY NFPA 820.
 - PROVIDE DETECTABLE BARRIER TAPE, 3M SCOTCH SERIES 400, BURIED AT 12" BELOW GRADE, FURNISH 6" WIDE X 5 MIL TAPE WITH ALUMINUM BACKING. INSTALL ABOVE ALL BURIED ELECTRICAL CONDUITS AND CABLES.
 - JUNCTION BOXES AND DISCONNECT SWITCHES FOR WET WELL EQUIPMENT SHALL BE FURNISHED WITH CROUSE HINDS TYPE ES SEALING HUBS ON BOTH CONDUITS ENTERING THE ENCLOSURE.
 - CONDUIT ENTERING SHEET METAL ENCLOSURES SHALL BE TERMINATED WITH THREADED HUBS UNLESS NOTED OTHERWISE.
 - UNDERGROUND CONDUITS ENTERING ENCLOSURES OR EQUIPMENT SHALL BE SEALED WITH ELECTRICAL PUTTY/DUCT SEAL UNLESS OTHERWISE.
 - PROVIDE FIRE ALARM SYSTEM IN BELT PRESS BUILDING PER NFPA 820 AND SPECIFICATION 16800. ALL DEVICES TO BE WATERPROOF.
 - PROVIDE 24" ALUMINUM LADDER TYPE CABLE TRAY 6" DEEP WITH ALL MOUNTING HARDWARE FOR CONTROL WIRING FROM MCC TO SBR AND AQUA-AEROBIOS CONTROL PANELS. PROVIDE ALL MOUNTING HARDWARE AND FITTINGS. SUSPEND ABOVE MCC AND CONTROL PANELS.

SYMBOL	L x W x D	LOGO	NOTES
	24" x 36" x 36"	ELECTRICAL	A, B
	24" x 30" x 12"	ELECTRICAL	A, B
	24" x 30" x 12"	SIGNAL	A, B
	30" x 17" x 24"	OPTICAL FIBER	A, B

- NOTES:**
- SEE DETAIL 4/E1A.
 - SEE SHEETS E2A & E3A FOR LOCATIONS OF ALL BOXES. EXACT LOCATIONS TO BE MADE IN FIELD.

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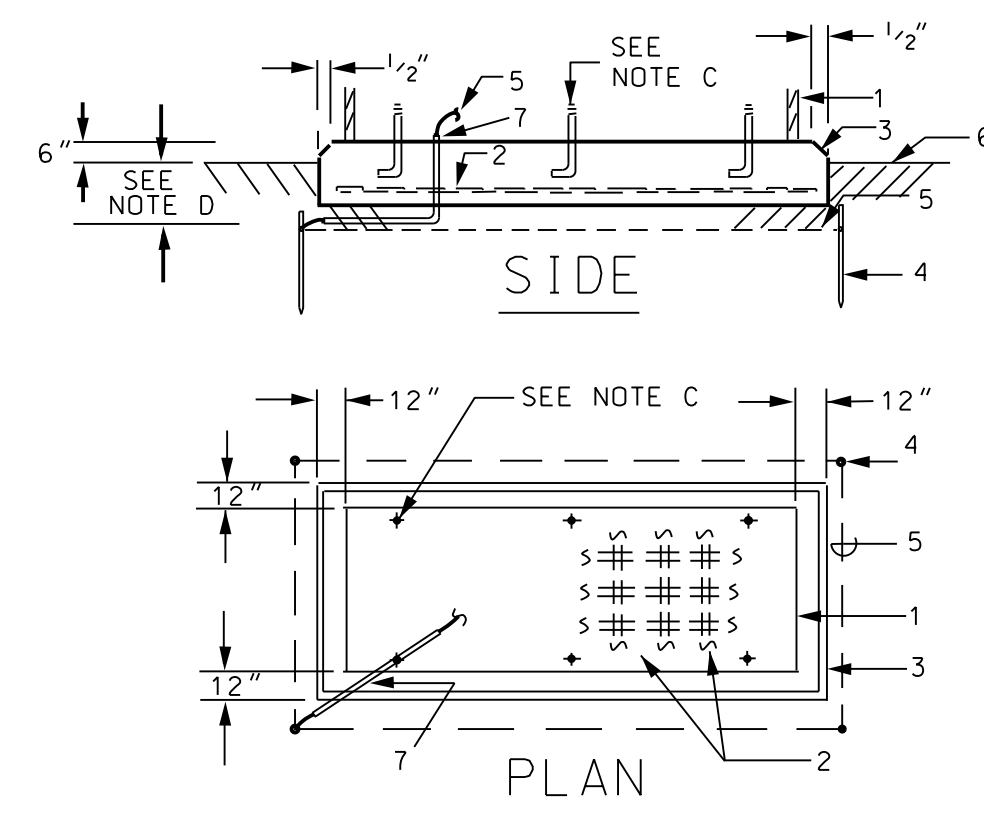
WWTP Expansion

LEGEND, ABBREVIATIONS, & GENERAL NOTES

E1

FILE NO: 2020-10 PRJ
PLOT DATE: February 7, 2024

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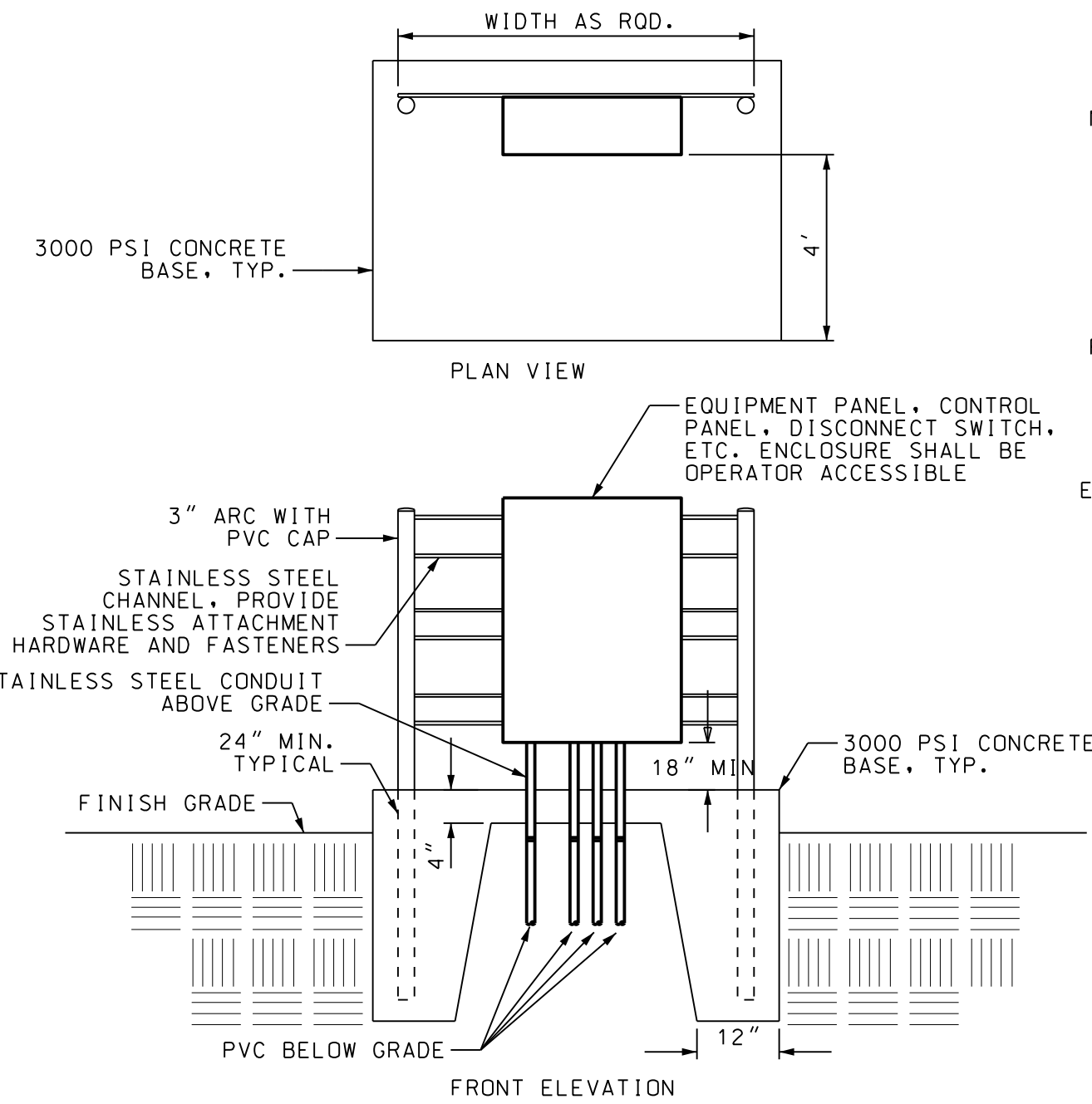


- 1 - GENERATOR SET ENCLOSURE OUTLINE
- 2 - REINFORCING STEEL, NOTE A
- 3 - 1" CHAMFER
- 4 - 3/4" X 10' COPPERCLAD GROUND ROD AND
- 5 - #1/0 CU BARE GROUND CONDUCTOR
- 6 - FINISHED GRADE
- 7 - 3/4" PVC, SEE NOTE B

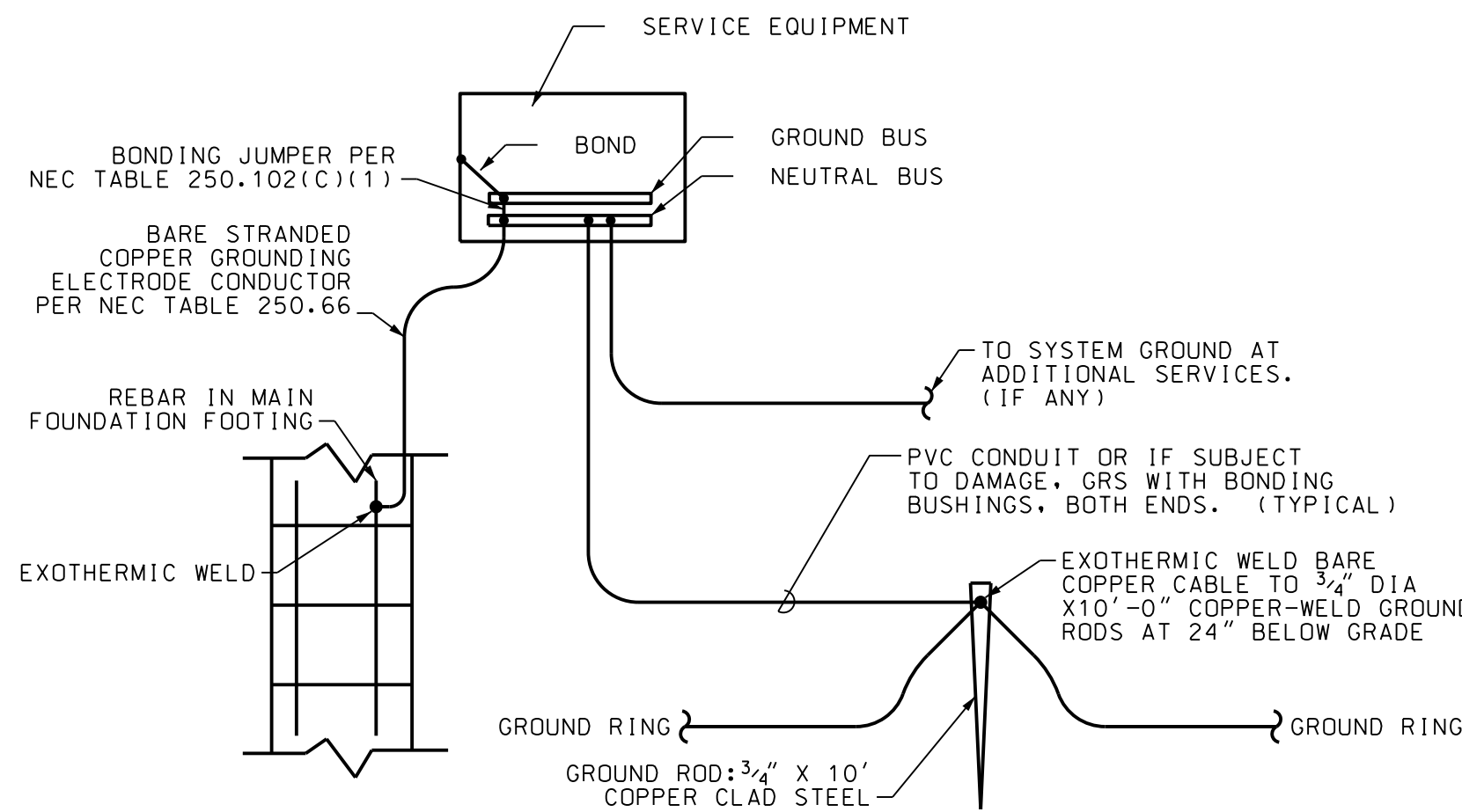
NOTES: GENERATOR FOUNDATION DETAIL

- 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.

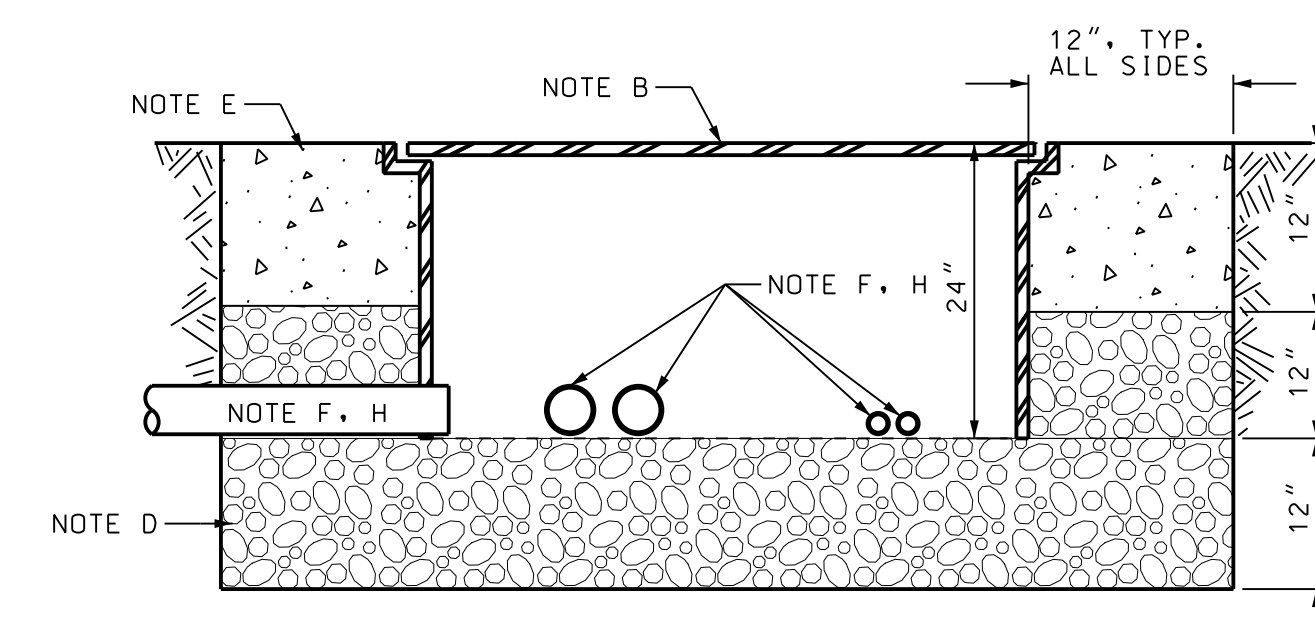
1 GENERATOR FOUNDATION DETAIL
E1A N.T.S.



2 EQUIPMENT RACK
E1A N.T.S.

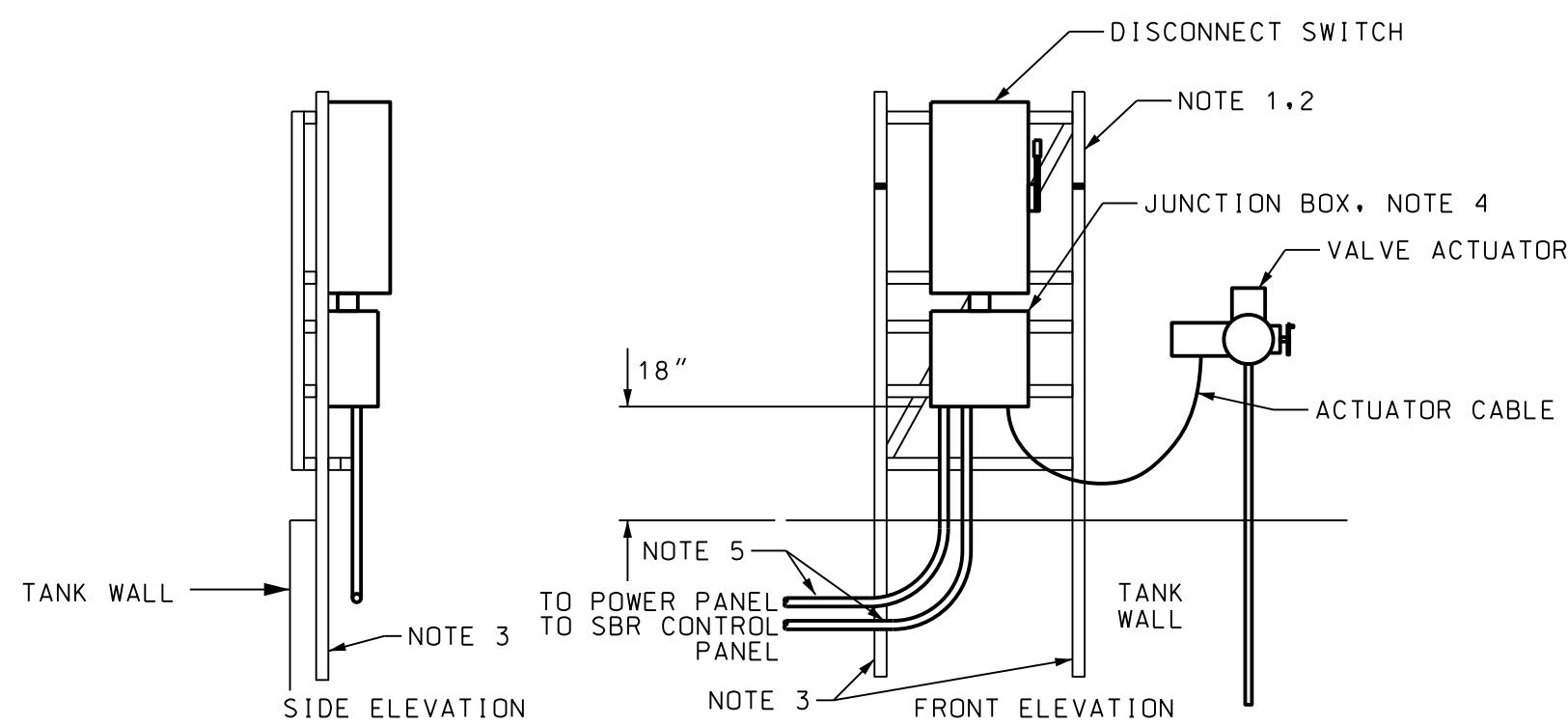


3 SECONDARY ELECTRICAL GROUNDING
E1A N.T.S.



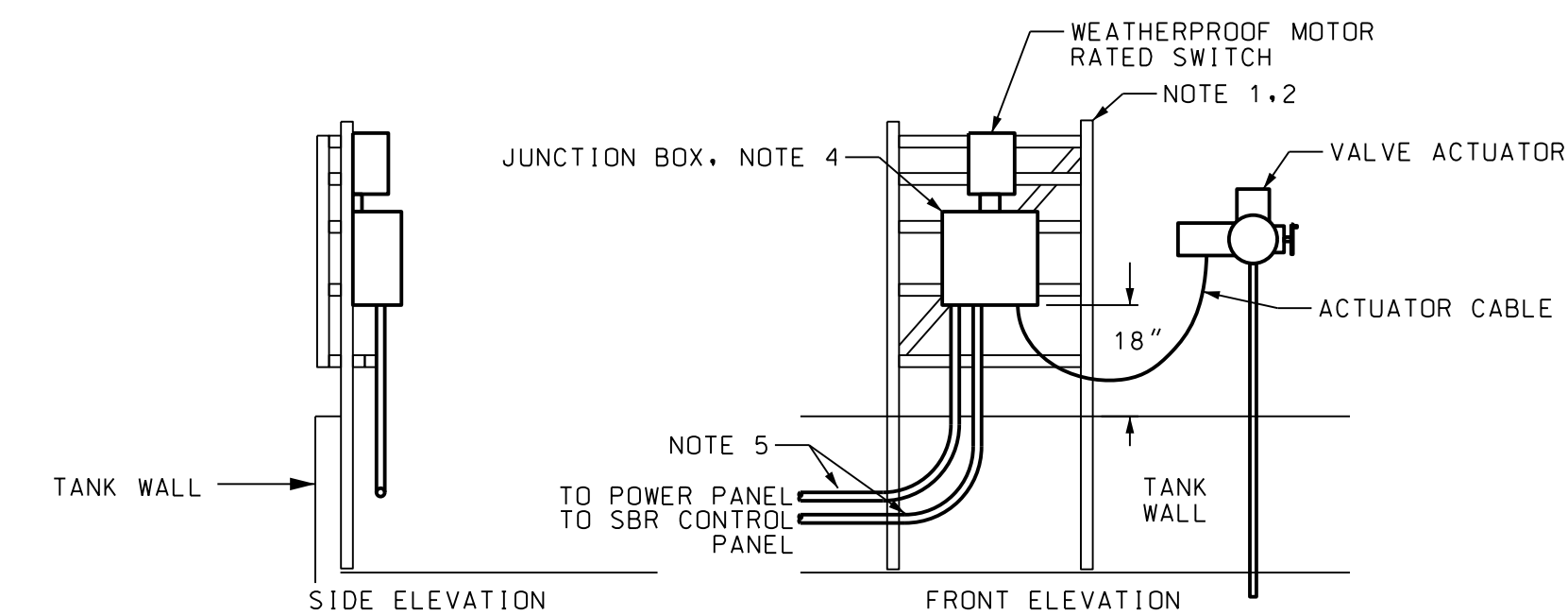
- NOTES:** JUNCTION BOX - FLUSH WITH FINISHED GRADE
- A. JUNCTION BOXES SHALL BE QUARTZITE POLYMER CONCRETE TYPE "PC" OPEN BOTTOM, OR EQUIVALENT BY OLD CASTLE OR PENCEL.
 - B. THE COVER SHALL BE TIER 22 RATED, LOGO - "ELECTRIC" OR "OPTICAL FIBER."
 - C. BOX DIMENSIONS SHALL BE AS NOTED ON THE DRAWINGS; LXWxD. SEE SCHEDULE ON SHEET E1.
 - D. PROVIDE A BASE OF CRUSHED STONE, 12" DEEP AND EXTENDING 12" BEYOND THE BOX ON ALL SIDES. PROVIDE OPEN BOTTOM.
 - 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. SEAL CONDUITS WITH ELECTRICAL PUTTY AFTER CABLE INSTALLATION.
 - I. NO SPLICES ALLOWED IN JUNCTION BOX.

4 JUNCTION BOX - FLUSH WITH FINISHED GRADE
E1A N.T.S.



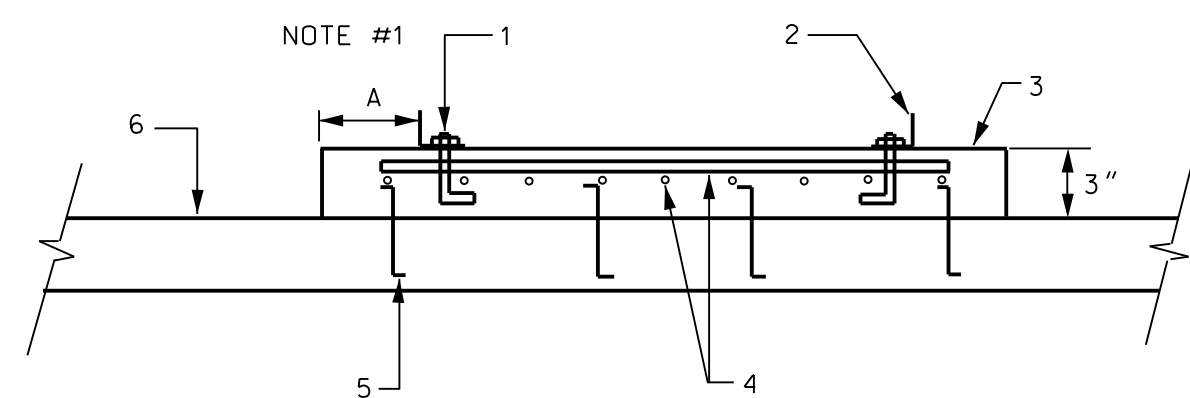
- NOTES:** 480V VALVE ACTUATOR DISCONNECT DETAIL
- 1. ALL CHANNEL, FASTENERS, ACCESSORIES, ETC. SHALL BE 316 STAINLESS STEEL, MINIMUM. PROVIDE PRODUCTS OF B-LINE, UNISTRUT OR POWERSTRUT.
 - 2. 12GA, 316 STAINLESS STEEL CHANNEL, 1 5/8" X 1 5/8", B-LINE B22 SERIES OR EQUAL.
 - 3. FIELD COORDINATE ATTACHMENT OF FRAME TO THE TANK WALL. ALL FASTENERS SHALL BE 316 STAINLESS STEEL.
 - 4. 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.
 - 5. STAINLESS STEEL CONDUIT FROM WITHIN CONCRETE TO JUNCTION BOX. NO FITTINGS ALLOWED 18" OR LESS ABOVE TANK WALL.
 - 6. PANEL SHALL BE OPERATOR ACCESSIBLE.

6 480V VALVE ACTUATOR DISCONNECT DETAIL
E1A N.T.S.



- NOTES:** 120V VALVE ACTUATOR DISCONNECT DETAIL
- 1. ALL CHANNEL, FASTENERS, ACCESSORIES, ETC. SHALL BE 316 STAINLESS STEEL, MINIMUM. PROVIDE PRODUCTS OF B-LINE, UNISTRUT OR POWERSTRUT.
 - 2. 12GA, 316 STAINLESS STEEL CHANNEL, 1 5/8" X 1 5/8", B-LINE B22 SERIES OR EQUAL.
 - 3. FIELD COORDINATE ATTACHMENT OF FRAME TO THE TANK WALL. ALL FASTENERS SHALL BE 316 STAINLESS STEEL.
 - 4. 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.
 - 5. STAINLESS STEEL CONDUIT FROM WITHIN CONCRETE TO JUNCTION BOX. NO FITTINGS ALLOWED 18" OR LESS ABOVE TANK WALL.
 - 6. PANEL SHALL BE OPERATOR ACCESSIBLE.

7 120V VALVE ACTUATOR DISCONNECT DETAIL
E1A N.T.S.

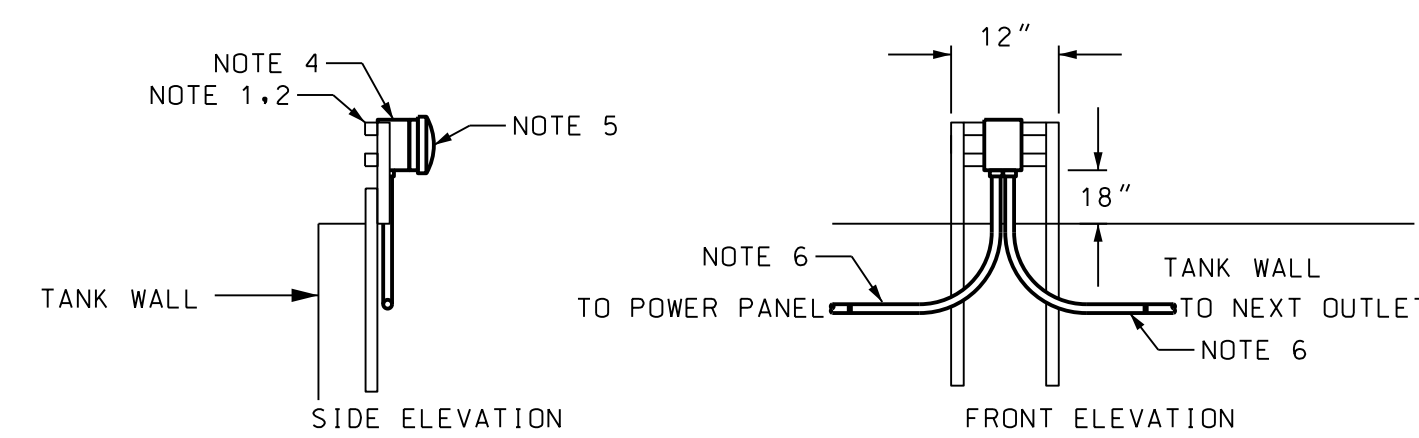


- 1. 1/2" GALV. ANCHOR BOLTS - 24" O.C. MIN.
- 2. ELECTRICAL EQUIPMENT MOUNTING FRAME
- 3. HOUSEKEEPING BASE
- 4. REINFORCING #4 BAR 12" O.C. BOTH DIRECTIONS, 1 1/4" MIN. COVER
- 5. #4 Z BAR DOWELLS - 12" O.C. BOTH DIRECTIONS
- 6. FLOOR SLAB

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
E1A N.T.S.



8 SBR TANK RECEPTACLE DETAIL
E1A N.T.S.

NOTES: RECEPTACLE DETAIL

- 1. ALL CHANNEL, FASTENERS, ACCESSORIES, ETC. SHALL BE 316 STAINLESS STEEL, MINIMUM. PROVIDE PRODUCTS OF B-LINE, UNISTRUT OR POWERSTRUT.
- 2. 12GA, 316 STAINLESS STEEL CHANNEL, 1 5/8" X 1 5/8", B-LINE B22 SERIES OR EQUAL.
- 3. FIELD COORDINATE ATTACHMENT OF FRAME TO THE TANK WALL. ALL FASTENERS SHALL BE 316 STAINLESS STEEL.
- 4. RECEPTACLE OUTLET BOX SHALL BE A CROUSE-HINDS FDS2SS, STAINLESS STEEL DEVICE BOX WITH TWO 3/4" CONDUIT HUBS.
- 5. RECEPTACLE OUTLET WEATHERPROOF COVER SHALL BE A CALBRITE STAINLESS STEEL 1-GANG DEEP LTD WEATHERPROOF COVER, S6000DFVCD.
- 6. STAINLESS STEEL CONDUIT FROM WITHIN CONCRETE TO OUTLET BOX. PVC WITHIN CONCRETE. NO FITTINGS ALLOWED 18" OR LESS ABOVE TANK WALL.

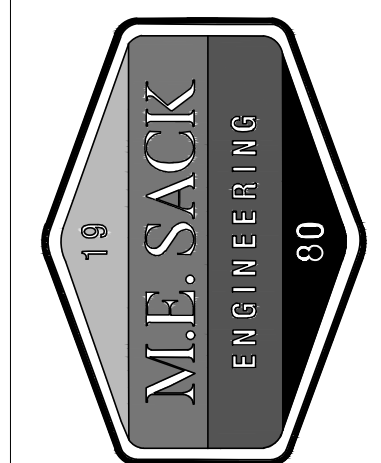
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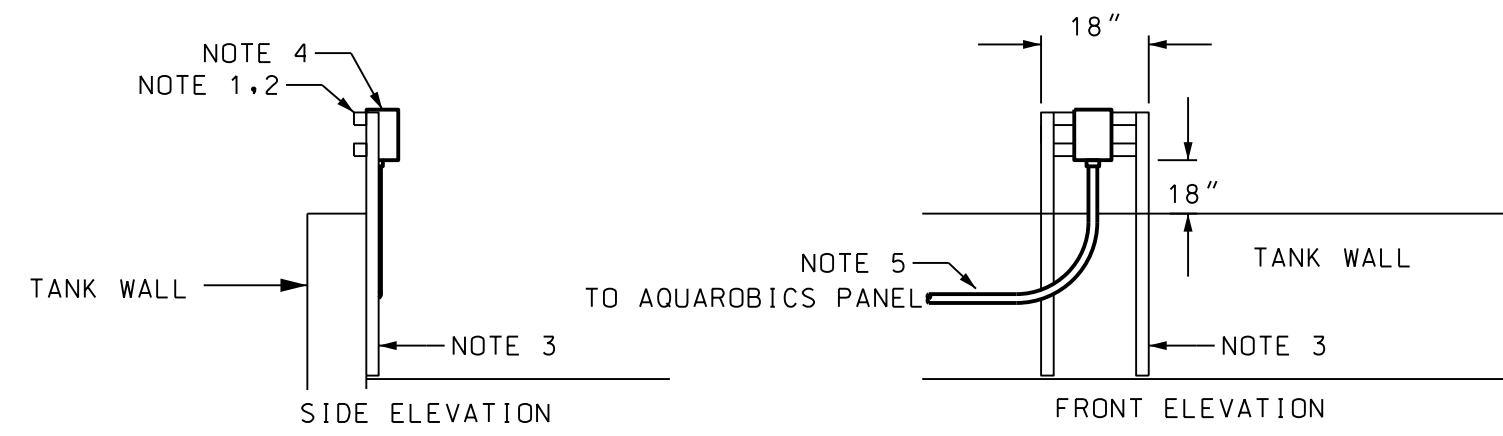
WWTP
Expansion

MISCELLANEOUS
DETAILS

E1A

FILE NO: 2020-10 PRJ
PLOT DATE: February 7, 2024

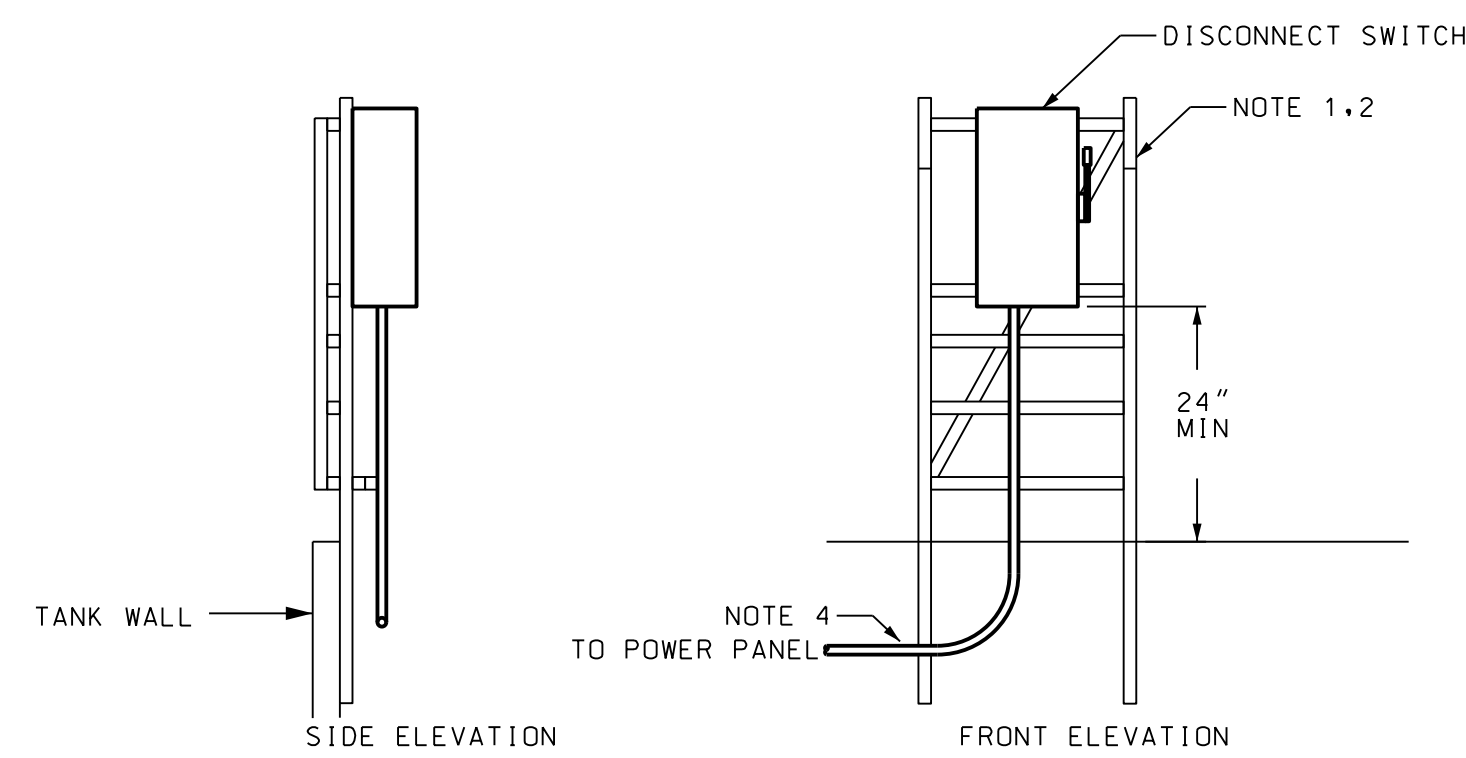
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NOTES: SBR TANK JUNCTION BOX DETAIL

1. ALL CHANNEL, FASTENERS, ACCESSORIES, ETC. SHALL BE 316 STAINLESS STEEL. MINIMUM. PROVIDE PRODUCTS OF B-LINE, UNISTRUT OR POWERSTRUT.
2. 12GA, 316 STAINLESS STEEL CHANNEL, 1 5/8" X 1 5/8", B-LINE B22 SERIES OR EQUAL.
3. FIELD COORDINATE ATTACHMENT OF FRAME TO THE TANK WALL. ALL FASTENERS SHALL BE 316 STAINLESS STEEL.
4. RECEPTACLE OUTLET BOX SHALL BE A CROUSE-HINDS FDS25S, STAINLESS STEEL DEVICE BOX WITH TWO 3/4" CONDUIT HUBS.
5. STAINLESS STEEL CONDUIT FROM OUTLET BOX TO WITHIN CONCRETE, SCH. 80 PVC CONDUIT THEREAFTER. NO FITTINGS ALLOWED 18" OR LESS ABOVE TANK WALL.
6. PANEL SHALL BE OPERATOR ACCESSIBLE.

1 SBR TANK JUNCTION BOX DETAIL
E1B N. T. S.



NOTES: DISCONNECT DETAIL

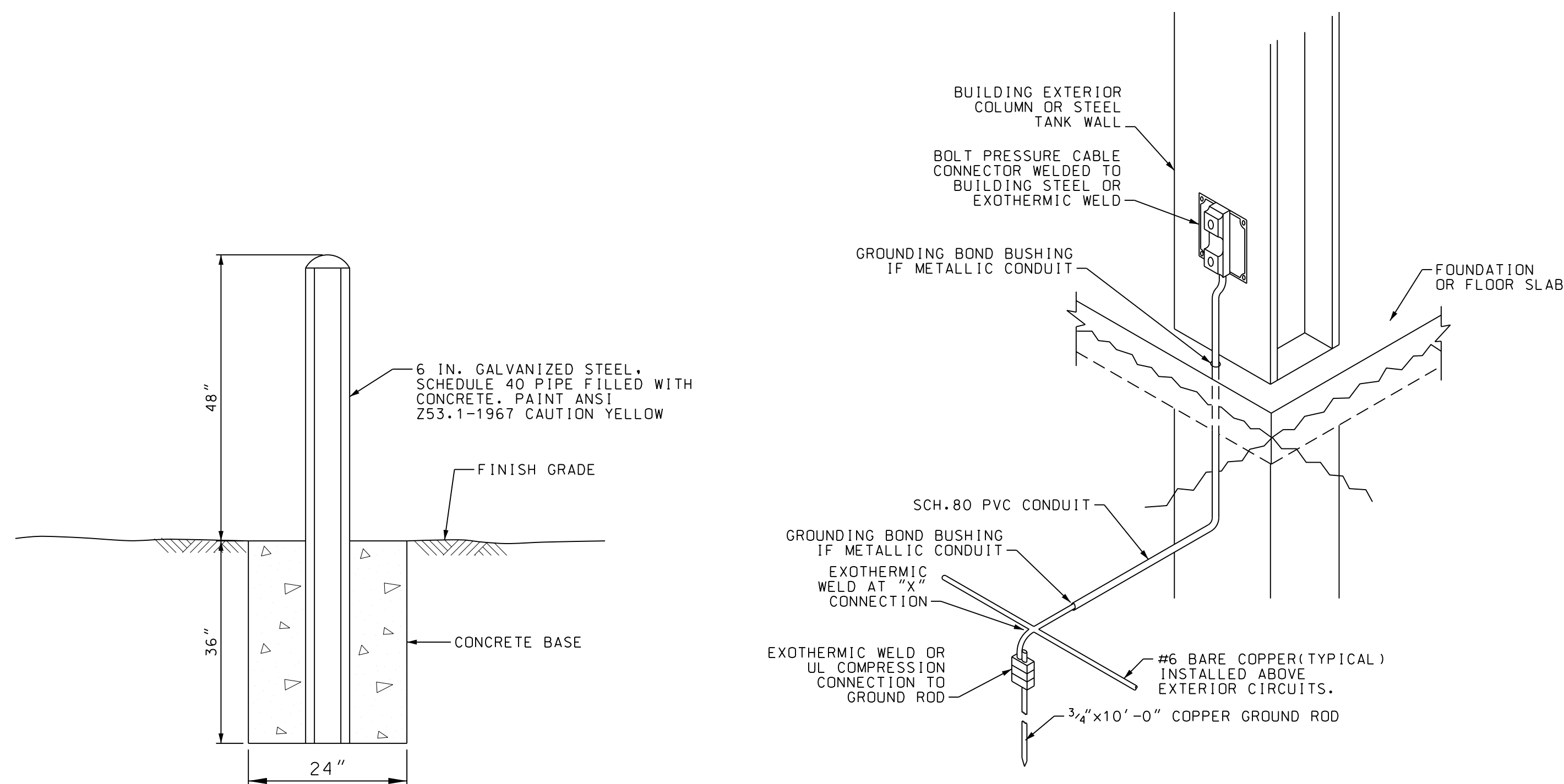
1. ALL CHANNEL, FASTENERS, ACCESSORIES, ETC. SHALL BE 316 STAINLESS STEEL. MINIMUM. PROVIDE PRODUCTS OF B-LINE, UNISTRUT OR POWERSTRUT.
2. 12GA, 304 STAINLESS STEEL CHANNEL, 1 5/8" X 1 5/8", B-LINE B22 SERIES OR EQUAL.
3. FIELD COORDINATE ATTACHMENT OF FRAME TO THE TANK WALL. ALL FASTENERS SHALL BE 316 STAINLESS STEEL.
4. STAINLESS STEEL CONDUIT FROM JUNCTION BOX TO WITHIN CONCRETE, SCH. 80 PVC CONDUIT THEREAFTER. NO FITTINGS ALLOWED 18" OR LESS ABOVE TANK WALL.
5. PANEL SHALL BE OPERATOR ACCESSIBLE.

2 DISCONNECT DETAIL
E1B N. T. S.

LIGHT FIXTURE SCHEDULE - RINCON WWTP - NOTE LF-1					
TYPE	DESCRIPTION	VOLTAGE	LAMP	MOUNTING	NOTES
A	LED ENCLOSED & GASKETED INDUSTRIAL - 8' LITHONIA FEM-L96-12000LM-LPPCL-WD-MVOLT-40K-80CRI	UNIVERSAL	LED INCLUDED	SURFACE	FIELD COORDINATE INSTALLATION WITH STRUCTURE
B	LED WALL PACK - 2950 LUMENS LITHONIA TWX1 LED-P2-40K-MVOLT-DOBXD	UNIVERSAL	LED INCLUDED	WALL 10'AFG	
D	LED STRIP LIGHT LITHONIA CSS-L48-AL03-MVOLT-SWW3-80CRI	UNIVERSAL	LED INCLUDED	SURFACE	FIELD SETTINGS: 4000LM, 4000K
F	LED WALL PACK - 1600 LUMENS LITHONIA TWX1 LED-P1-40K-MVOLT-DOBXD	UNIVERSAL	LED INCLUDED	WALL 10'AFG	
H	LED ENCLOSED & GASKETED INDUSTRIAL - 4' LITHONIA FEM-L48-4000LM-LPPCL-WD-80CRI-40K	UNIVERSAL	LED INCLUDED	SURFACE	FIELD COORDINATE INSTALLATION WITH STRUCTURE
K	TWO LED FLOODLIGHTS ON BULLHORN LITHONIA (2) DSXF3LED-6P450K70WFLISDOBXD	UNIVERSAL	LED INCLUDED LED 27,000L 200W, 5000K	POLE - 50' AFG	POLES TO BE PRE-STRESSED GREY CONCRETE POLES 50 FT. WITH HANDHOLE WITH ALUMINUM COVER, GROUND LUG, RATED FOR 130 MPH. PROVIDE POST TOP TENON WITH A 2 FIXTURE ALUMINUM BRONZE BULLHORN. FINAL AIMING TO BE DONE IN FIELD AFTER DARK. PROVIDE 12" AIR TERMINAL ON EACH POLE. EXTEND NO.6(CU) TO 3/4" X 10 FT GROUND ROD AT BASE OF POLE.
L	FOUR LED FLOODLIGHTS ON BULLHORN LITHONIA (4) DSXF3LED-6P450K70WFLISDOBXD	UNIVERSAL	LED INCLUDED LED 27,000L 200W, 5000K	POLE - 50' AFG	POLES TO BE PRE-STRESSED GREY CONCRETE POLES 50 FT. WITH HANDHOLE WITH ALUMINUM COVER, GROUND LUG, RATED FOR 130 MPH. PROVIDE POST TOP TENON WITH A 4 FIXTURE ALUMINUM BRONZE BULLHORN. FINAL AIMING TO BE DONE IN FIELD AFTER DARK. PROVIDE 12" AIR TERMINAL ON EACH POLE. EXTEND NO.6(CU) TO 3/4" X 10 FT GROUND ROD AT BASE OF POLE.
ELU-1	EMERGENCY LIGHT - NEMA 4X LITHONIA EXTL-SP1100L-UVOLT-LPT-SDRT	UNIVERSAL	LED INCLUDED	SURFACE	MOUNT 10' AFF FURNISH WITH SELF-DIAGNOSTICS
ELU-2	EMERGENCY LIGHT - INTERIOR LITHONIA ELM4L-UVOLT-LTP-SDRT	UNIVERSAL	LED INCLUDED	WALL	MOUNT 10' AFF FURNISH WITH SELF-DIAGNOSTICS
XA	EXIT LIGHT WITH BATTERIES AND 2 HEADS LITHONIA ECRG	UNIVERSAL	LED INCLUDED	WALL 9'AFF	PROVIDE ARROWS, MOUNTING & SINGLE FACE FURNISH WITH SELF-DIAGNOSTICS

NOTES - LIGHTING FIXTURE SCHEDULE

LF-1. FIXTURES SPECIFIED INDICATE LEVEL OF QUALITY REQUIRED. SIMILAR FIXTURES MAY BE SUBSTITUTED IF SUBMITTED FOR REVIEW AT LEAST 10 DAYS PRIOR TO BID AND IF FIXTURES ARE INCLUDED IN AN ADDENDUM. SUBMIT POINT BY POINT CALCULATIONS FOR SITE LIGHTING FIXTURES FOR CONSIDERATION.



3 BOLLARD DETAIL
E1B N. T. S.

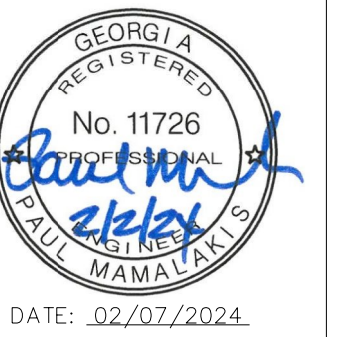
4 GROUNDING COUNTERPOISE DETAIL
E1B N. T. S.

REVISIONS:

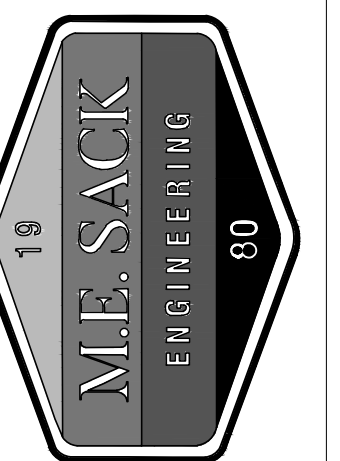
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MISCELLANEOUS
DETAILS & FIXTURE
SCHEDULE

E1B

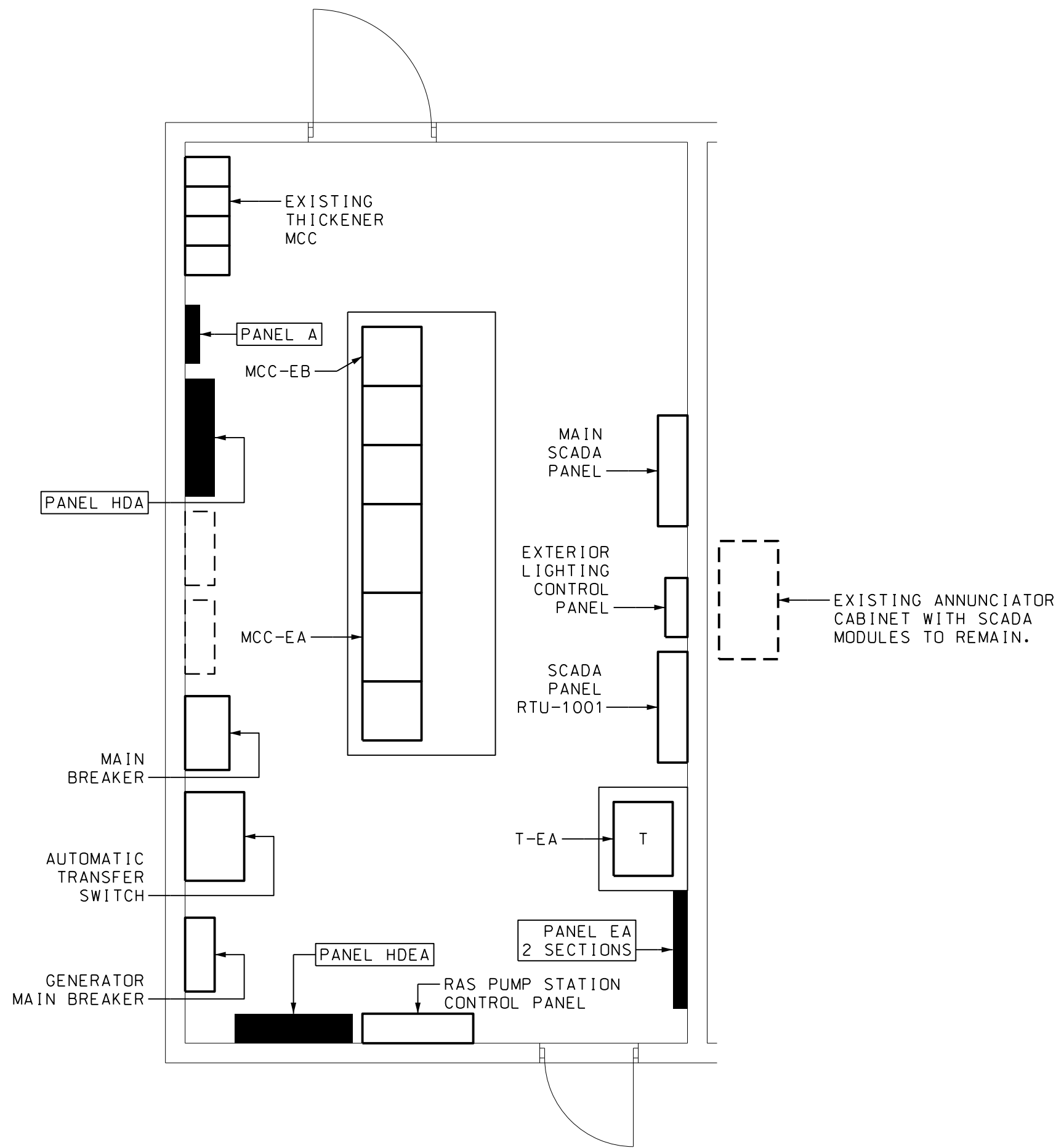
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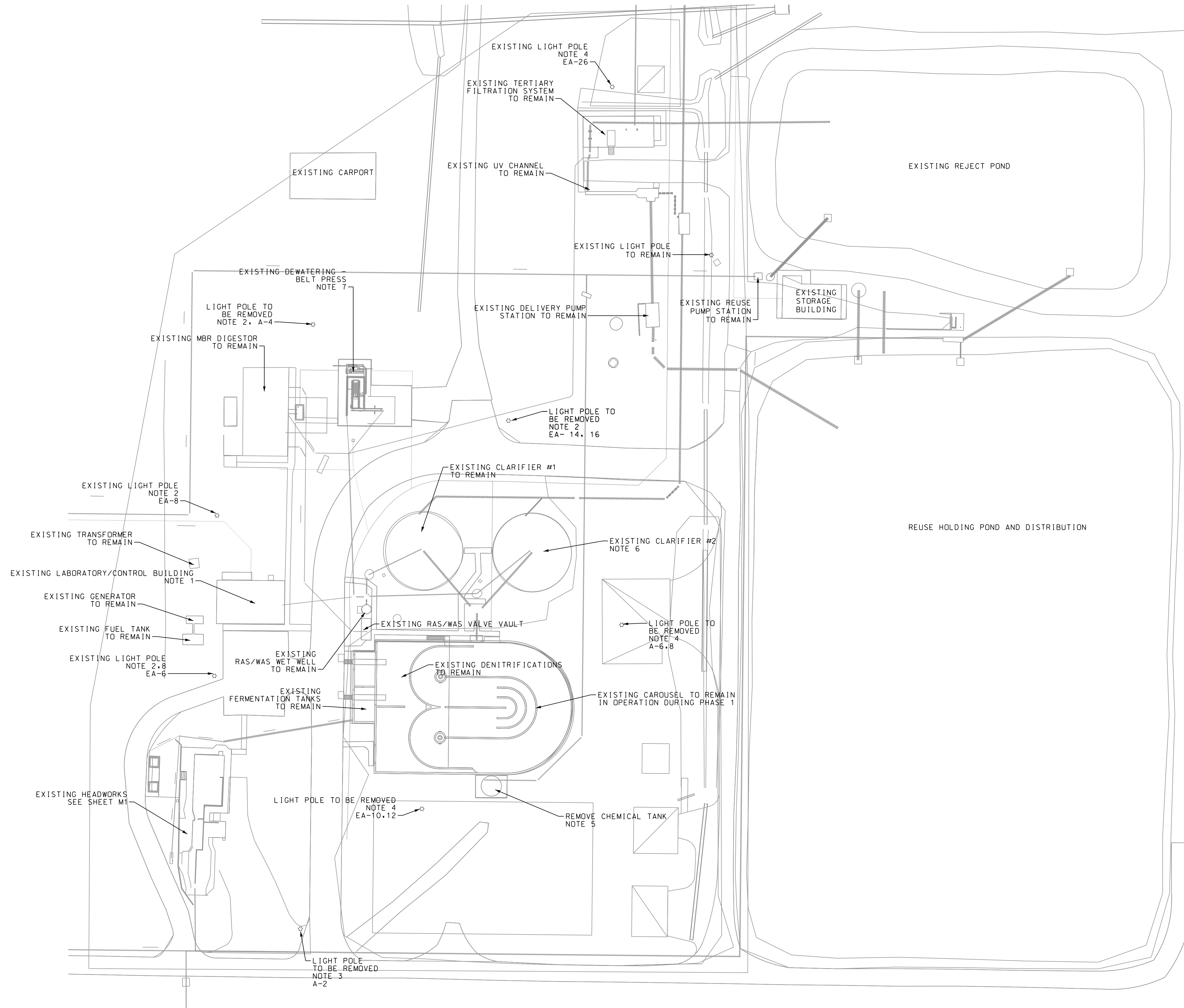
NOTES:

- THE EXISTING MAIN ELECTRICAL ROOM IS LOCATED IN THIS BUILDING. IT INCLUDES:
 - PANEL HDEA
 - PANEL HDA
 - PANEL A
 - MCC-EA
 - MCC-EB
 - MCC-THICKENER
 - EXTERIOR LIGHTING CONTROL PANEL
 - MR SYSTEMS SCADA PANELS (2)
 SEE DETAIL 2/E2.
- REMOVE EXISTING POLE AND FLOODLIGHTS. EXISTING CIRCUIT NUMBERS INDICATED FOR INFORMATION. VERIFY IN FIELD. CIRCUITS EXTEND FROM PANEL SHOWN THROUGH EXTERIOR LIGHTING CONTROL PANEL. NEW POLE TO BE INSTALLED IN THE SAME LOCATION AS EXISTING. SAVE EXISTING CIRCUIT FOR REUSE. DISPOSE OF POLES AND FIXTURES FROM SITE.
- REMOVE EXISTING BROKEN POLE. EXISTING ORIGINAL CIRCUIT NUMBER IS INDICATED FOR INFORMATION. VERIFY IN FIELD. SEE SHEET E2A FOR NEW LIGHTING REQUIRED.
- REMOVE EXISTING POLE AND FLOODLIGHTS. EXISTING CIRCUIT NUMBERS INDICATED FOR INFORMATION. VERIFY IN FIELD. CIRCUITS EXTEND FROM PANEL SHOWN THROUGH EXTERIOR LIGHTING CONTROL PANEL. NEW POLE TO BE INSTALLED IN DIFFERENT LOCATION REMOVE WIRING AND SAVE CONDUIT FOR EXTENSION TO NEW POLE LOCATION.
- REMOVE ELECTRICAL SERVICE AND CONTROL WIRING TO EXISTING CHEMICAL TANK AND BUILDING. RECEPTACLES TO REMAIN.
- REMOVE SERVICE TO CLARIFIER #2 WHICH EXTEND FROM 20A/3P BREAKER IN PANEL HDEA. UPDATE DIRECTORIES. REMOVE ANNUNCIATOR/ALARM CIRCUITS FROM CLARIFIER. REMOVE 120V CIRCUIT FROM PANEL EA TO ALARM PANEL.
- REMOVE CIRCUIT SERVICING EXISTING BELT PRESS EQUIPMENT AND HEATER AFTER NEW BELT PRESS IS OPERATIONAL. EXISTING CIRCUIT EXTENDS FROM 100A/3P BREAKER IN PANEL HDEA. UPDATE DIRECTORY CUT OFF FEEDER CONDUIT LEVEL AT FLOOR. MAINTAIN EXISTING LIGHTS AND RECEPTACLES. THESE ARE FED FROM PANEL EA. PROVIDE NEW WP COVERS FOR TWO SWITCH BOXES AND 4 RECEPTACLE BOXES.
- REMOVE EXISTING SCADA YAGI ANTENNA AND ANTENNA CABLE AND SECURITY CAMERA. PROTECT FOR INSTALLATION ON NEW POLE. SEE E2A.



LAYOUT SHOWN FOR INFORMATION ONLY.
OBTAIN ALL DIMENSIONS FROM EXISTING CONDITIONS.

2 EXISTING MAIN ELECTRICAL ROOM LAYOUT
E2 SCALE: 1/4" = 1' - 0"



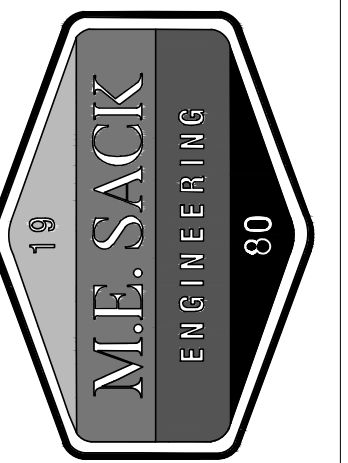
1 ELECTRICAL SITE DEMOLITION PLAN - PHASE 1
E2 SCALE: 1" = 40' - 0"

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ELECTRICAL SITE DEMOLITION PLAN - PHASE 1

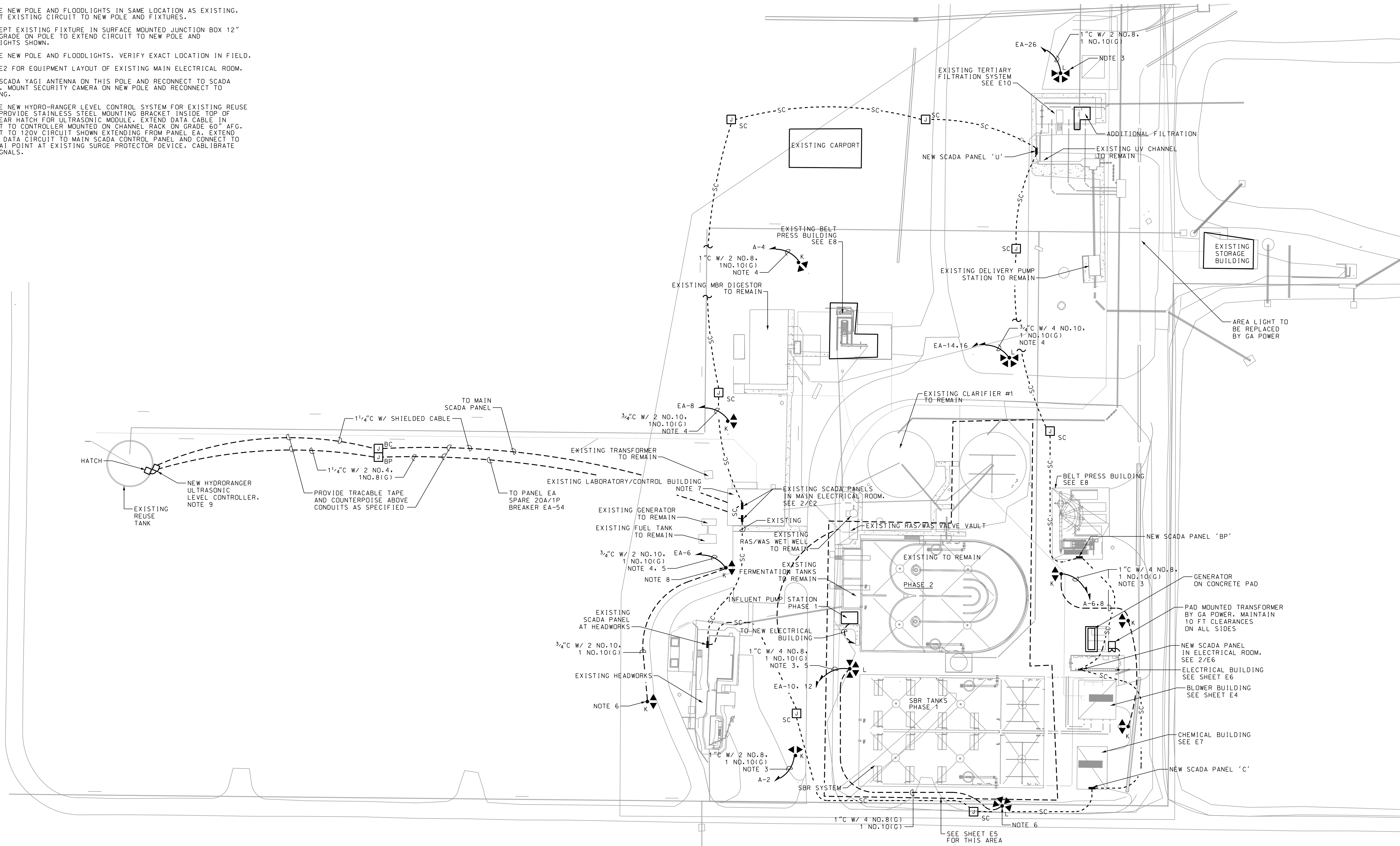
E2

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PHASE 1 CONSTRUCTION SUMMARY:

1. CONSTRUCT CHEMICAL BUILDING AND PIPING. CONSTRUCT NEW CHEMICAL BUILDING AND HAVE CHEMICAL TANKS IN OPERATION TO EXISTING DENITRIFICATION TANKS BEFORE DEMOLISHING EXISTING CHEMICAL TANK AND CONSTRUCTING NEW SBR BASINS.
2. CONSTRUCT BELT PRESS BUILDING AND ASSEMBLE BELT PRESS AND CONVEYOR EQUIPMENT. COMPLETE CONSTRUCTION AND CONNECT PIPING BEFORE DEMOLISHING EXISTING BELT PRESS EQUIPMENT.
3. PROVIDE NEW POLE AND FLOODLIGHTS. EXTEND NEW WIRING TO CIRCUIT SHOWN TO EXTERIOR LIGHTING CONTROL PANEL LOCATED IN MAIN ELECTRICAL ROOM. REUSE EXISTING CONDUIT. REWORK AND EXTEND CONDUIT AS REQUIRED.
4. PROVIDE NEW POLE AND FLOODLIGHTS IN SAME LOCATION AS EXISTING. CONNECT EXISTING CIRCUIT TO NEW POLE AND FIXTURES.
5. INTERCEPT EXISTING FIXTURE IN SURFACE MOUNTED JUNCTION BOX 12" ABOVE GRADE ON POLE TO EXTEND CIRCUIT TO NEW POLE AND FLOODLIGHTS SHOWN.
6. PROVIDE NEW POLE AND FLOODLIGHTS. VERIFY EXACT LOCATION IN FIELD.
7. SEE 2/E2 FOR EQUIPMENT LAYOUT OF EXISTING MAIN ELECTRICAL ROOM.
8. MOUNT SCADA YAGI ANTENNA ON THIS POLE AND RECONNECT TO SCADA SYSTEM. MOUNT SECURITY CAMERA ON NEW POLE AND RECONNECT TO EXISTING.
9. PROVIDE NEW HYDRO-RANGER LEVEL CONTROL SYSTEM FOR EXISTING REUSE TANK. PROVIDE STAINLESS STEEL MOUNTING BRACKET INSIDE TOP OF TANK NEAR HATCH FOR ULTRASONIC MODULE. EXTEND DATA CABLE IN CONDUIT TO CONTROLLER MOUNTED ON CHANNEL RACK ON GRADE 60" AFG. CONNECT TO 120V CIRCUIT SHOWN EXTENDING FROM PANEL EA. EXTEND 4-20MA DATA CIRCUIT TO MAIN SCADA CONTROL PANEL AND CONNECT TO SPARE AI POINT AT EXISTING SURGE PROTECTOR DEVICE. CALIBRATE ALL SIGNALS.



1 ELECTRICAL SITE PLAN - PHASE 1
 E2A SCALE: 1" = 40' - 0"

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GEORGIA REGISTERED PROFESSIONAL ENGINEER
 No. 11726
 M.A.M.A.T.A. 1915
 DATE: 02/07/2024

M.E. SACK ENGINEERING

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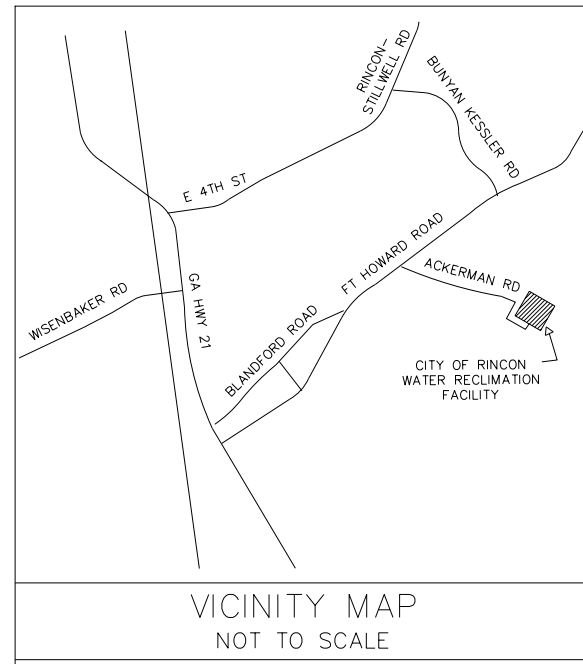
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ELECTRICAL SITE PLAN PHASE 1

E2A

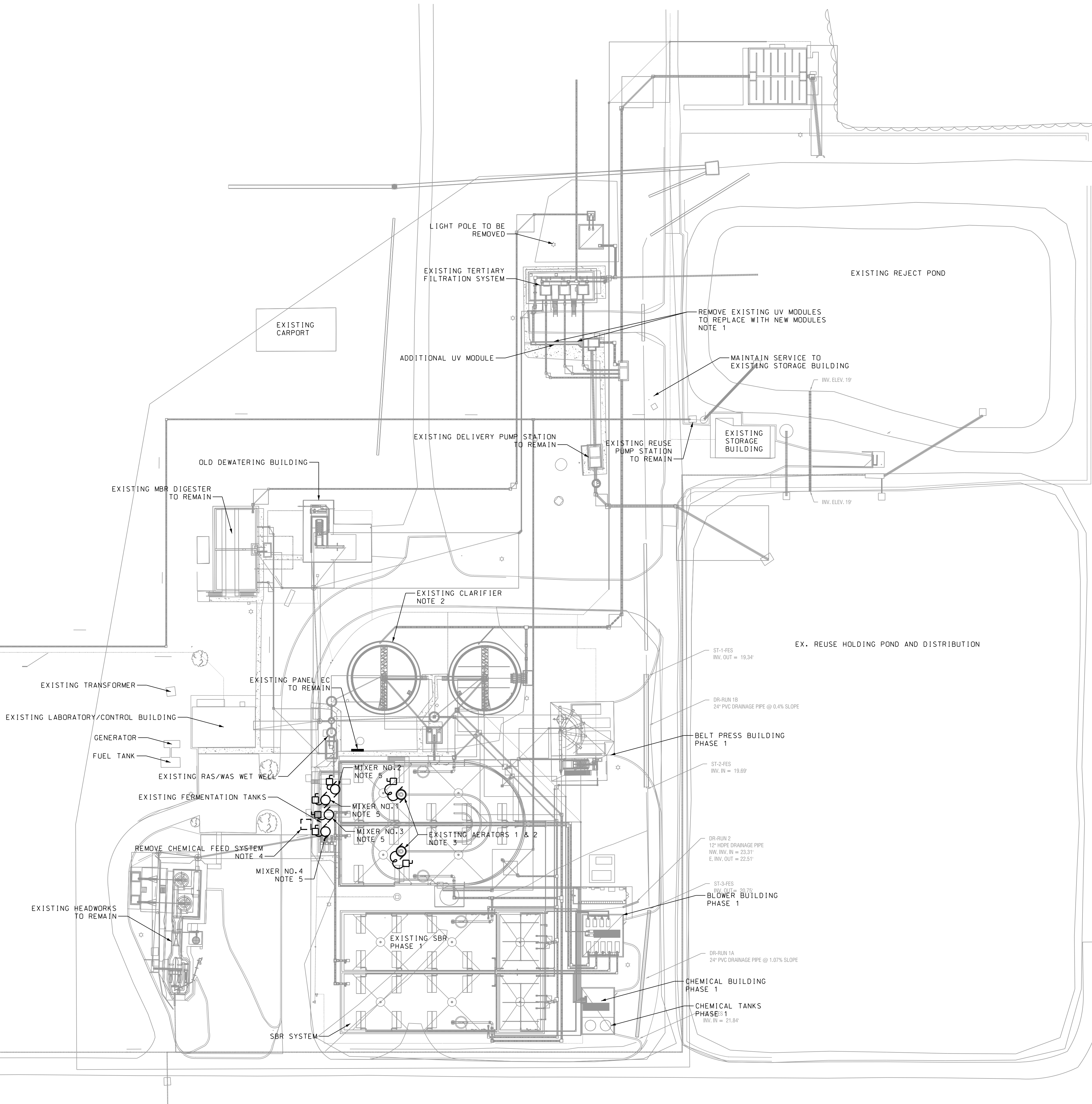
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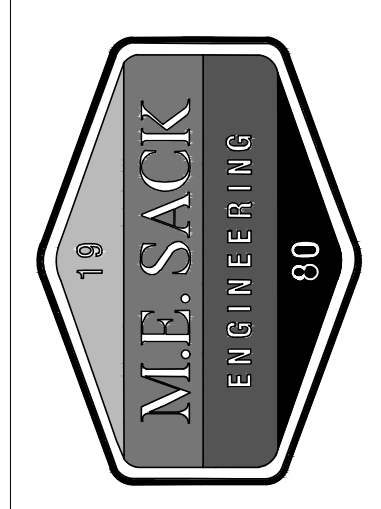
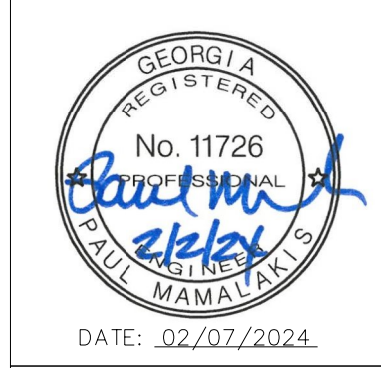
1. REMOVE 480 VOLT FEEDERS FROM TWO EXISTING UV MODULES EXTENDING FROM PANEL HDA IN EXISTING MAIN ELECTRICAL ROOM.
2. REMOVE SERVICE TO CLARIFIER EXTENDING FROM EXISTING PANEL HDEA AND ALARM PANEL EXTENDING FROM PANEL EA. UPDATE DIRECTORIES.
3. REMOVE SERVICES TO EXISTING AERATORS 1 AND 2 WHICH EXTEND FROM MCC-EA IN MAIN ELECTRICAL ROOM. REMOVE EXISTING RECEPTACLES ADJACENT TO AERATORS SERVED FROM PANEL A.
4. REMOVE SERVICE TO EXISTING CHEMICAL FEED SYSTEM WHICH IS SERVED FROM PANEL EC.
5. REMOVE SERVICES TO EXISTING MIXERS 1, 2, 3 AND 4 WHICH ARE SERVED FROM MCC-EB LOCATED IN EXISTING MAIN ELECTRICAL ROOM. STARTERS TO REMAIN AS SPARES. PROVIDE NEW LABELS ON MCC BUCKETS.



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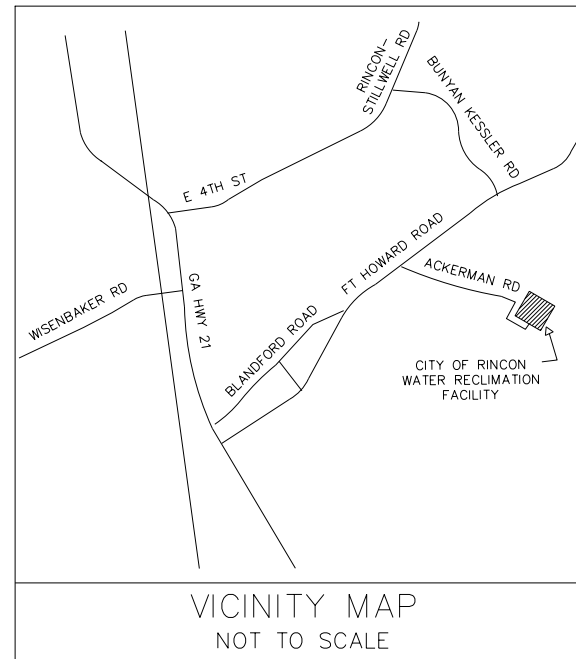
ELECTRICAL SITE DEMOLITION PLAN PHASE 2

E3

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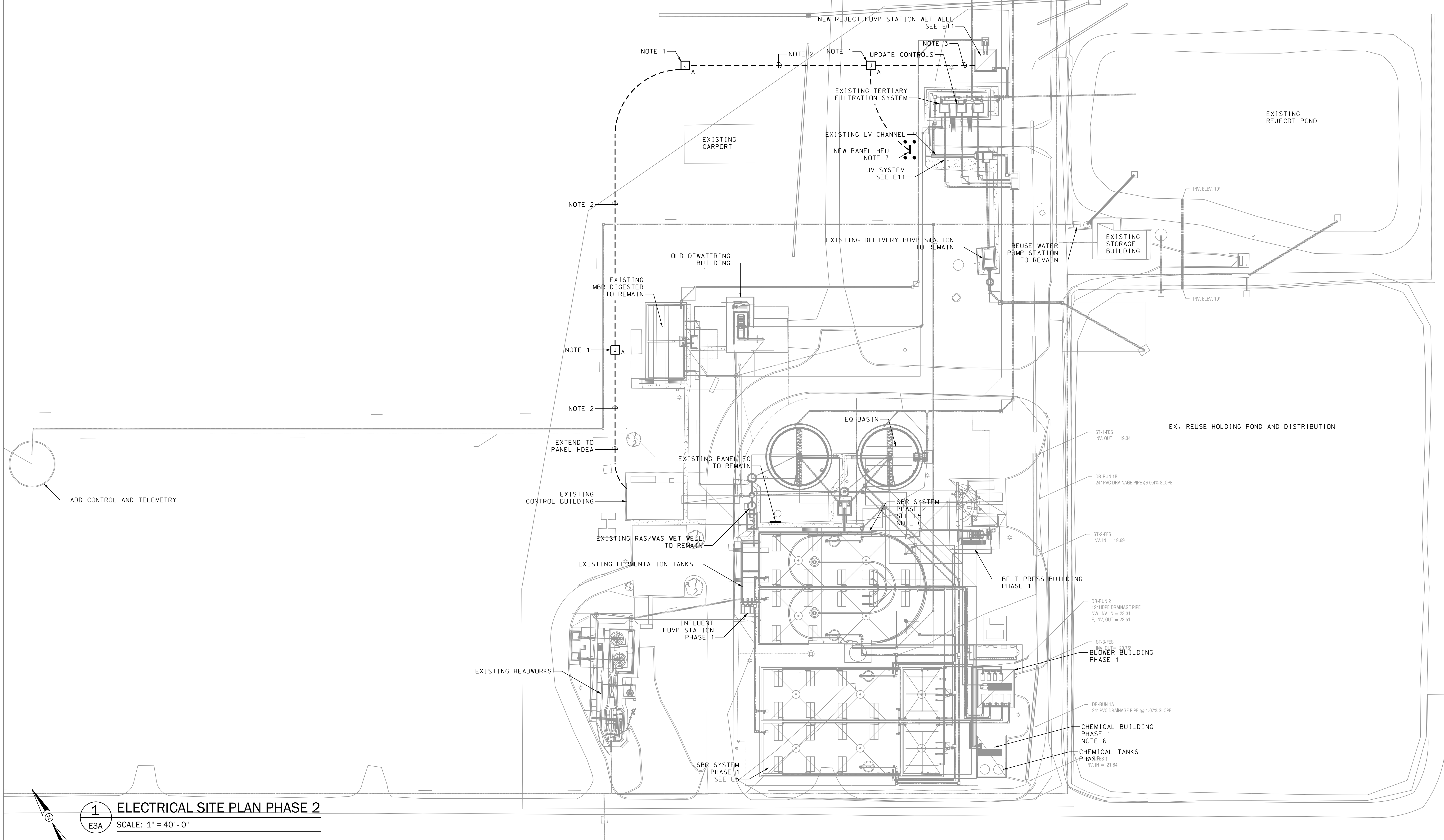
1 ELECTRICAL SITE DEMOLITION PLAN PHASE 2
E3 SCALE: 1" = 40' - 0"



NOTES:

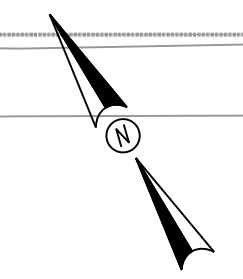
1. NEW IN GROUND JUNCTION BOX. SEE DETAIL 4/E1A. FINAL LOCATION TO BE DETERMINED IN FIELD.
2. U/G FEEDERS FOR REJECT PUMP STATION AND PANEL HEU. NOTE 4. COORDINATE WITH EXISTING AND OTHER UTILITIES.
3. U/G FEEDERS FOR REJECT PUMP STATIONS. NOTE 4. COORDINATE WITH EXISTING AND OTHER UTILITIES.
4. CONTRACTOR TO OBTAIN UTILITY INFORMATION ON EXISTING AND NEW UTILITIES BEFORE TRENCHING NEW U/G CONDUITS. REPAIR ALL DAMAGED UTILITIES.
5. NEW LIGHT POLE AND FLOODLIGHTS INSTALLED UNDER PHASE 1 DESIGN.
6. PROVIDE HEAT TAPE WITH 120 VOLT CIRCUITS FOR CHEMICAL PIPES. SEE SPEC 15280 AND SHEET E7.
7. PROVIDE 4 BOLLARDS AROUND PANEL. SEE 3/E1B.

VICINITY MAP
NOT TO SCALE



ADD CONTROL AND TELEMETRY

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1 ELECTRICAL SITE PLAN PHASE 2
E3A SCALE: 1" = 40' - 0"

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<p>ELECTRICAL SITE PLAN PHASE 2</p>											
<p>E3A</p>											
<p>FILE NO: 2020-10 PRJ PLOT DATE: February 7, 2024</p>											

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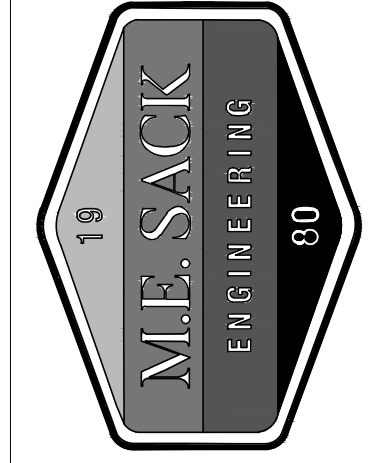
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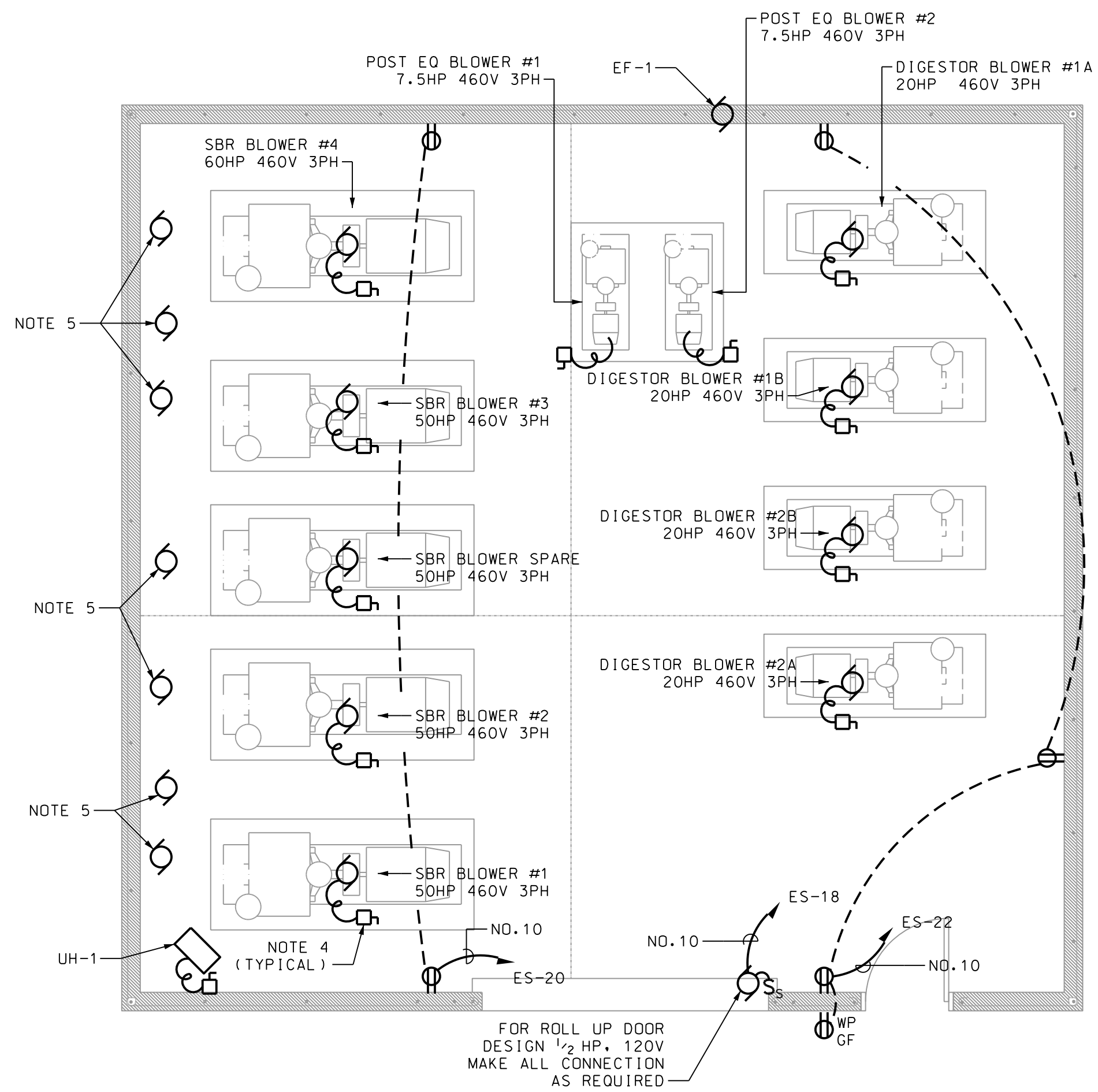
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**BLOWER BUILDING
ELECTRICAL PLANS**

E4

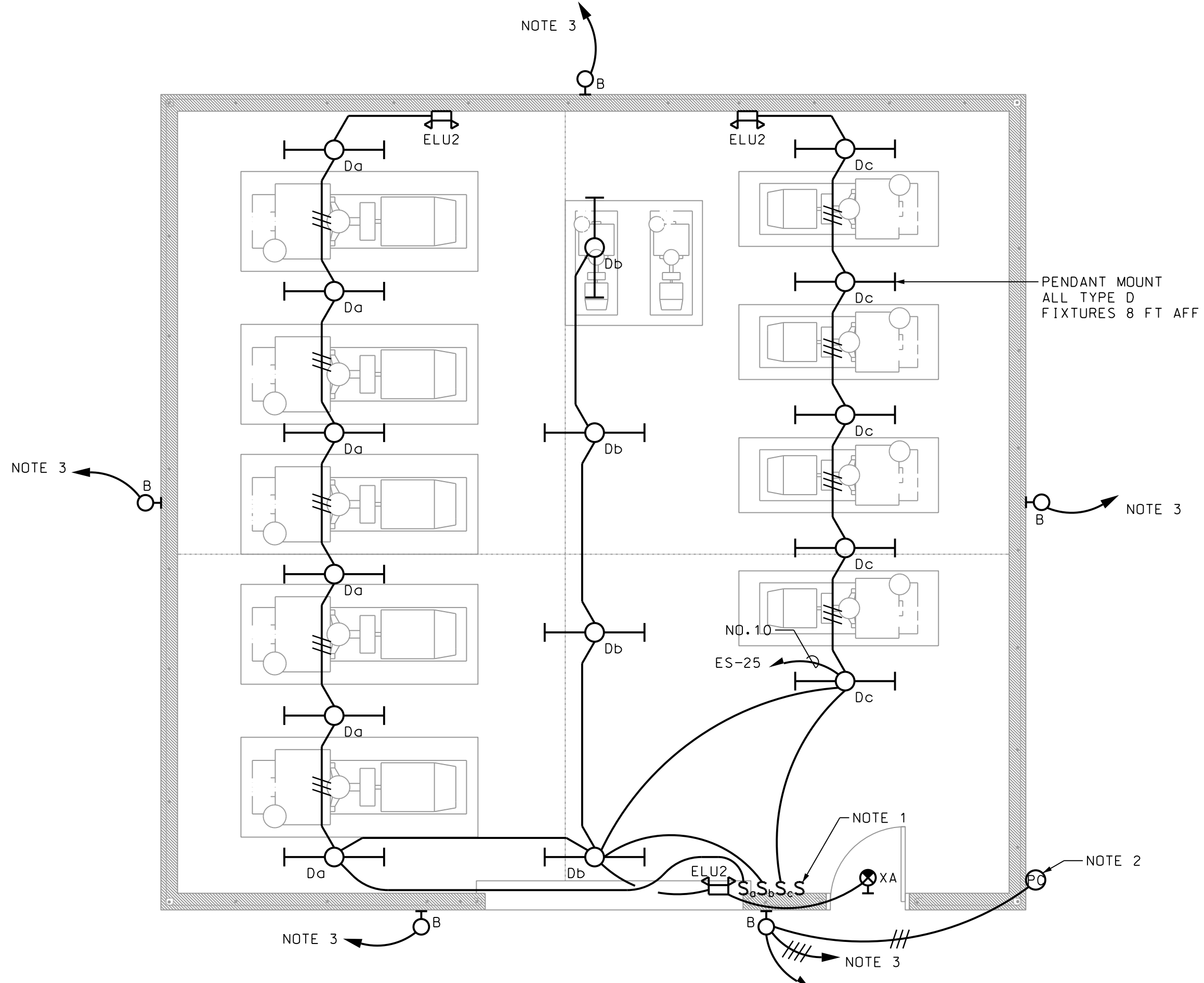
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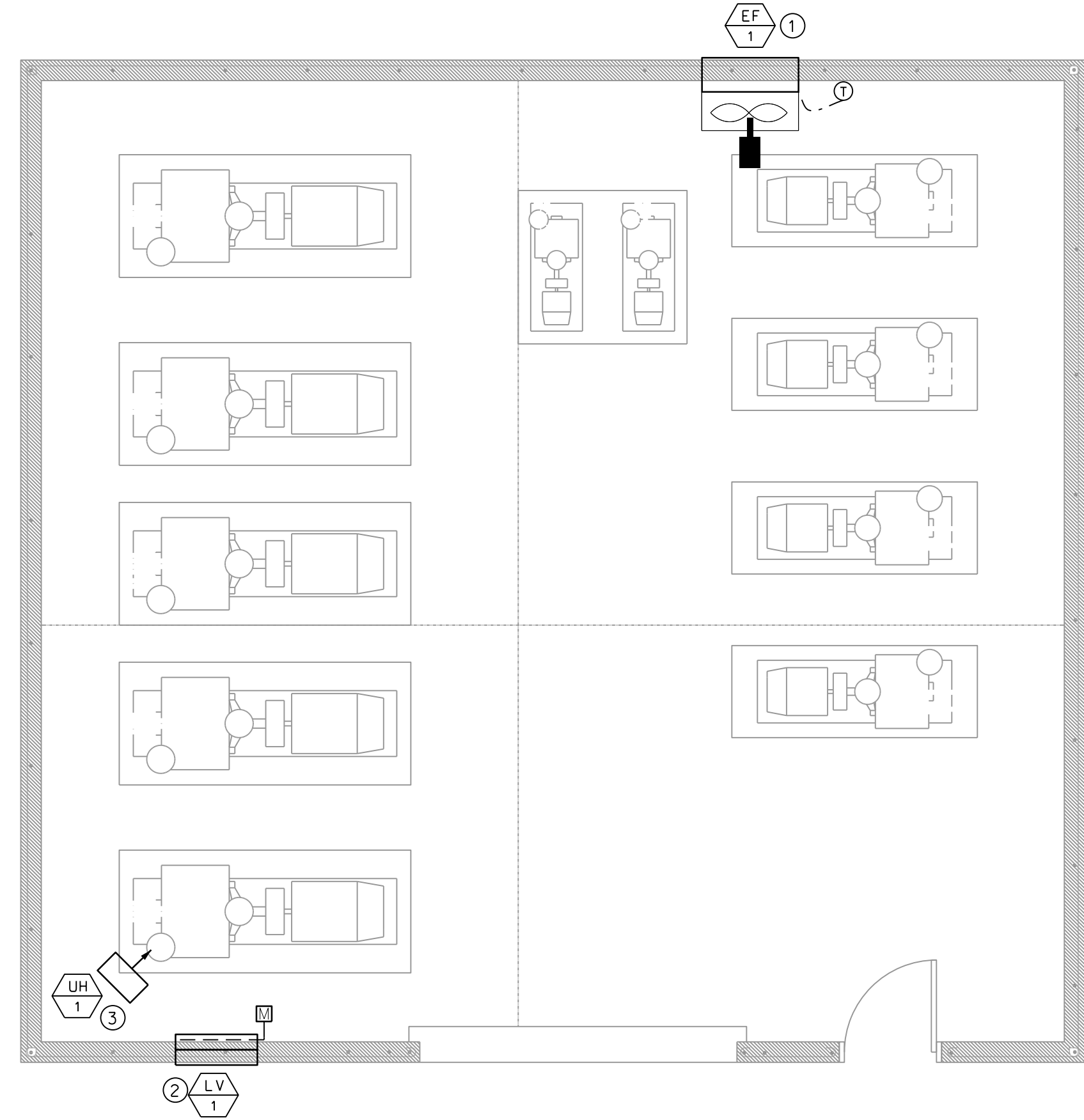
2 FLOOR PLAN - POWER
E4 SCALE: 1/4" = 1' - 0"

SEE SHEET E14 FOR PANELS HES AND ES SCHEDULES



1 FLOOR PLAN - LIGHTING
E4 SCALE: 1/4" = 1' - 0"

ES-27 EXTEND TO ELECTRICAL BUILDING. SHEET E6



3 FLOOR PLAN - HVAC
E4 SCALE: 1/4" = 1' - 0"

NOTES: (HVAC PLANS)

- 1 EXHAUST FAN EF-1 SHALL BE GREENHECK MODEL AER OR APPROVED EQUAL. FAN SHALL BE SIZED FOR 3000 CFM AT 0.25 ESP, 1/2 HP AND 18.5 SONES. FAN SHALL BE PROVIDED WITH BACKDRAFT DAMPER, WALL HOUSING, DISCONNECT SWITCH AND THERMOSTAT. FAN SHALL HAVE HI-PRO POLYESTER COATING FOR CORROSIVE ATMOSPHERE. FAN SHALL INTERLOCK WITH INTAKE LOUVER LV-1.
- 2 LOUVER LV-1 SHALL BE COMBINATION LOUVER/DAMPER FOR INTAKE AIR GREENHECK MODEL ECD-601 OR APPROVED EQUAL. LOUVER SIZED FOR 3000 CFM, WIDTH 36" & HEIGHT 36". DAMPER ACTUATOR SHALL BE 24V. PROVIDE WITH BIRD SCREEN. MOUNT HIGH ON WALL. COORDINATE WITH STRUCTURE.
- 3 UNIT HEATER UH-1 SHALL BE OMARK MODEL MUH OR APPROVED EQUAL. MOUNTING HEIGHT 9 FT AFF. PROVIDE WITH INTEGRAL THERMOSTAT, MOUNTING BRACKETS AND DISCONNECT SWITCH. HEATER SIZED FOR 7.5 KW.

NOTES: (LIGHTING AND POWER PLANS)

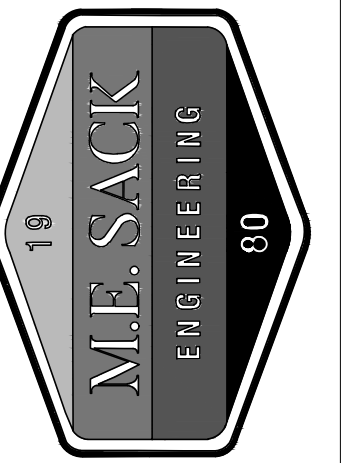
- 1. 3-POSITION SWITCH FOR CONTROL OF EXTERIOR LIGHTS: UP-PHOTO, CENTER-OFF, DOWN-MANUAL ON. FURNISH HUBBELL CAT. NO. HBL1381.
- 2. PHOTOCELL MOUNTED UNDER EAVE. EXTEND CONTROL THROUGH 3-POSITION SWITCH (NOTE 1). PROVIDE TORK 2107.
- 3. EXTEND CIRCUIT THROUGH 3-POSITION SWITCH IN THE ELECTRICAL RM. SEE NOTE 1.
- 4. MOUNT DISCONNECT SWITCH ON CHANNEL RACK AND CONNECT TO MOTOR AS REQUIRED WITH SEALTITE FLEX. MAINTAIN ACCESS TO ALL EQUIPMENT.
- 5. CONNECT TO ELECTRONICALLY OPERATED AIR CONTROL VALVES AS REQUIRED. PROVIDE DISCONNECT SWITCH AT EACH VALVE. EXTEND CONTROL WIRING TO SBR CONTROL PANEL.

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**SBR TANK
ELECTICAL
PLAN**

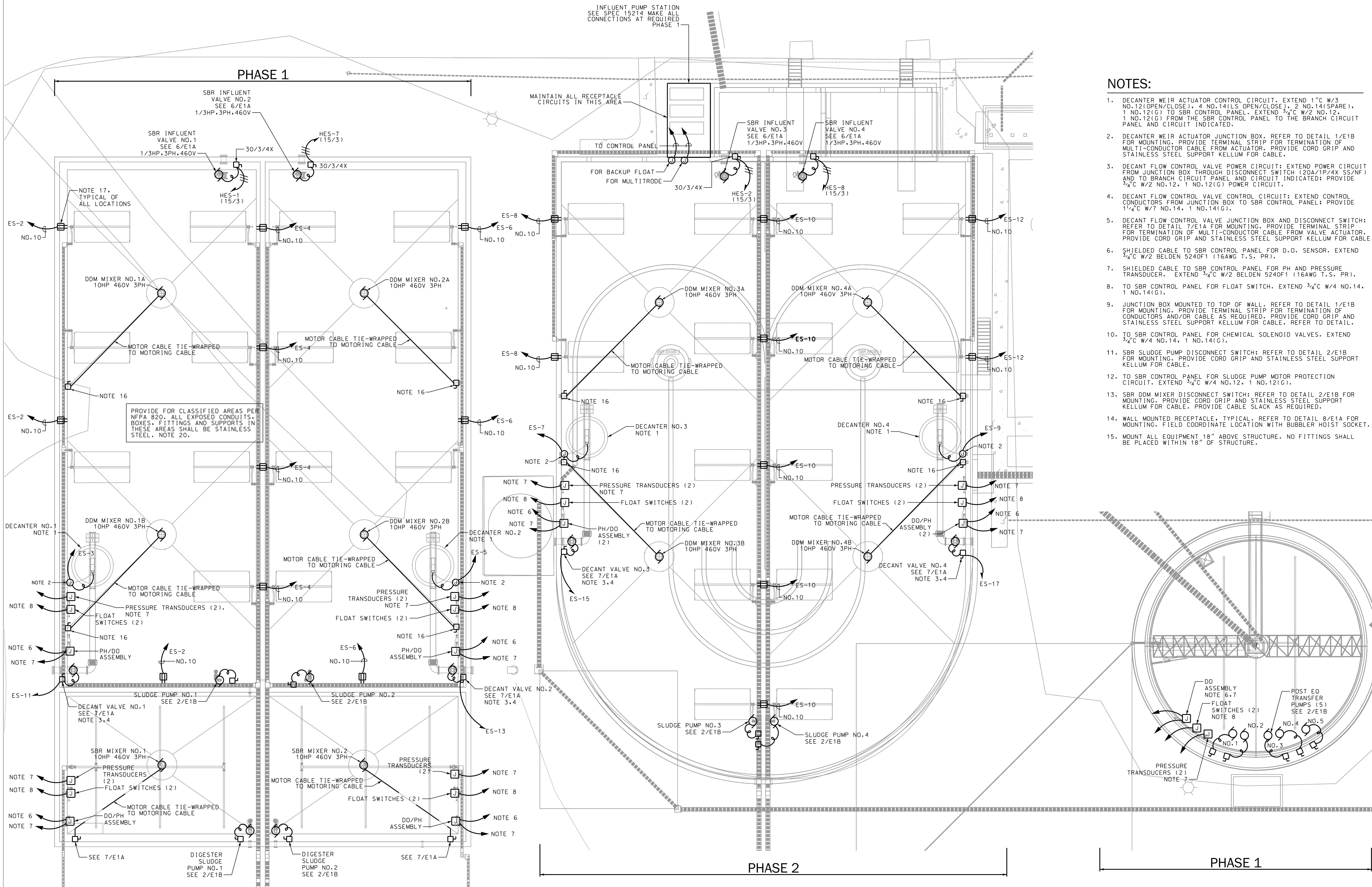
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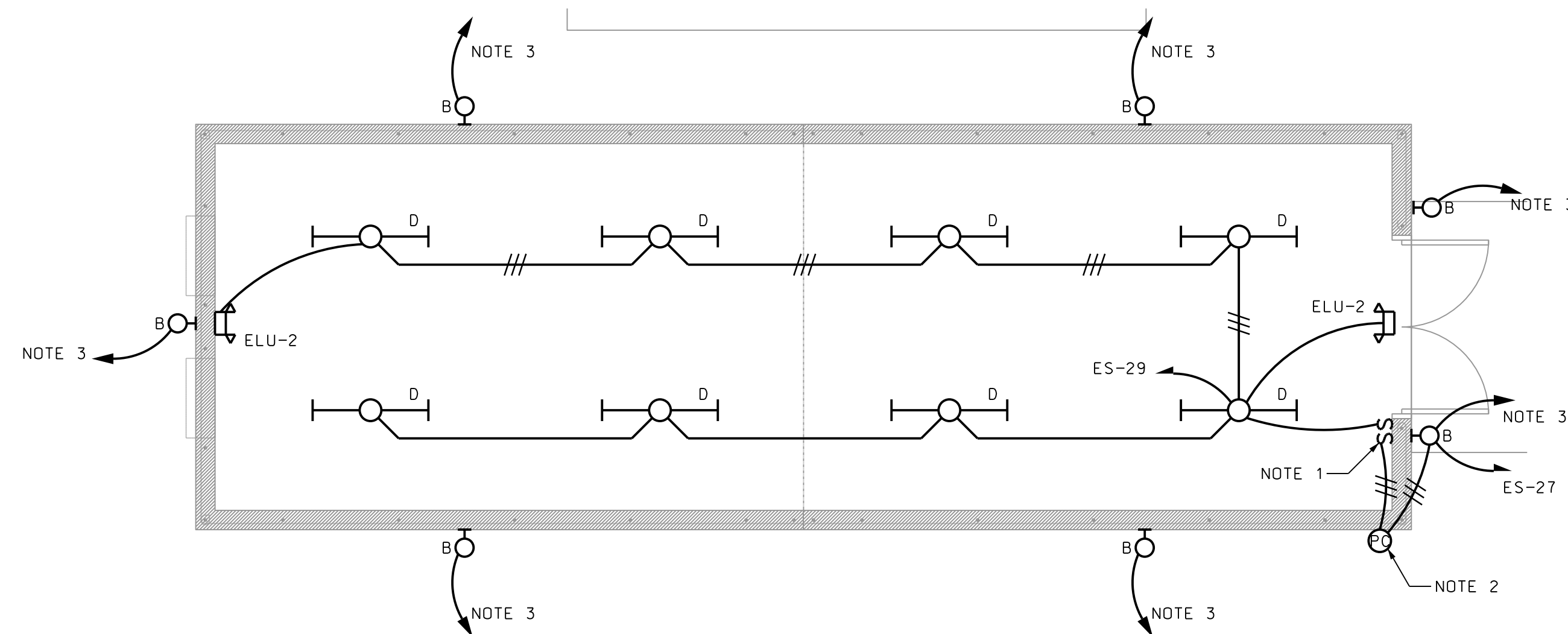
NOTES:

- DECANTER WEIR ACTUATOR CONTROL CIRCUIT. EXTEND 1" W/3 NO.12 (OPEN/CLOSE), 4 NO.14 (LS OPEN/CLOSE), 2 NO.14 (SPARE), 1 NO.12(G) TO SBR CONTROL PANEL. EXTEND 3/4"C W/2 NO.12, 1 NO.12(G) FROM THE SBR CONTROL PANEL TO THE BRANCH SBR CONTROL PANEL AND CIRCUIT INDICATED.
- DECANTER WEIR ACTUATOR JUNCTION BOX. REFER TO DETAIL 1/E1B 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 (20A/1P/4X SS/NF) AND TO BRANCH CIRCUIT PANEL AND CIRCUIT INDICATED. PROVIDE 3/4"C W/2 NO.12, 1 NO.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/7 NO.14, 1 NO.14(G).
- DECANT FLOW CONTROL VALVE JUNCTION BOX AND DISCONNECT SWITCH: REFER TO DETAIL 7/E1A 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/2 BELDEN 5240F1 (16AWG T.S. PR).
- SHIELDED CABLE TO SBR CONTROL PANEL FOR PH AND PRESSURE TRANSDUCER. EXTEND 3/4"C W/2 BELDEN 5240F1 (16AWG T.S. PR).
- TO SBR CONTROL PANEL FOR FLOAT SWITCH. EXTEND 3/4"C W/4 NO.14, 1 NO.14(G).
- JUNCTION BOX MOUNTED TO TOP OF WALL. REFER TO DETAIL 1/E1B 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/4 NO.14, 1 NO.14(G).
- SBR SLUDGE PUMP DISCONNECT SWITCH: REFER TO DETAIL 2/E1B FOR MOUNTING. PROVIDE CORD GRIP AND STAINLESS STEEL SUPPORT KELLUM FOR CABLE.
- TO SBR CONTROL PANEL FOR SLUDGE PUMP PROTECTION CIRCUIT. EXTEND 3/4"C W/4 NO.12, 1 NO.12(G).
- SBR DDM MIXER DISCONNECT SWITCH: REFER TO DETAIL 2/E1B FOR MOUNTING. PROVIDE CORD GRIP AND STAINLESS STEEL SUPPORT KELLUM FOR CABLE. PROVIDE CABLE SLACK AS REQUIRED.
- WALL MOUNTED RECEPTACLE, TYPICAL. REFER TO DETAIL 8/E1A FOR MOUNTING. FIELD COORDINATE LOCATION WITH BUBBLER HOIST SOCKET.
- MOUNT ALL EQUIPMENT 18" ABOVE STRUCTURE. NO FITTINGS SHALL BE PLACED WITHIN 18" OF STRUCTURE.



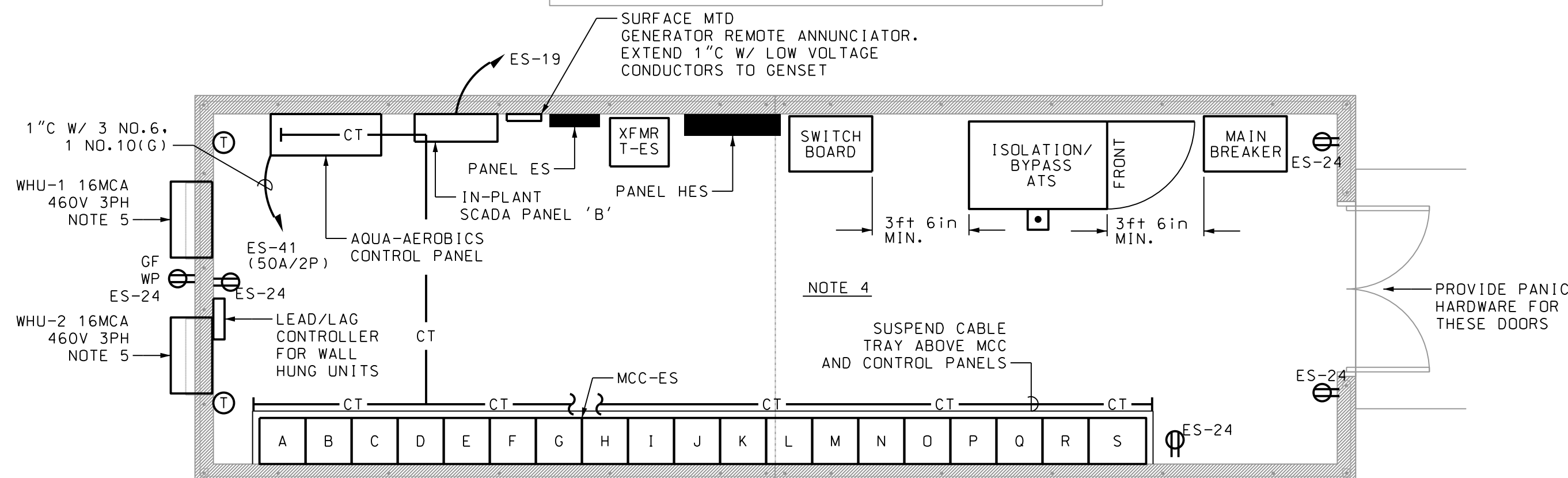
1 SBR TANKS - ELECTRICAL PLANS
E3 SCALE: 1" = 10' - 0"

CADD PLOT
02-FEB-2024
07:14:2
LCAULEY



1 ELECTRICAL ROOM PLAN - LIGHTING
E6 SCALE: 1/4" = 1'-0"

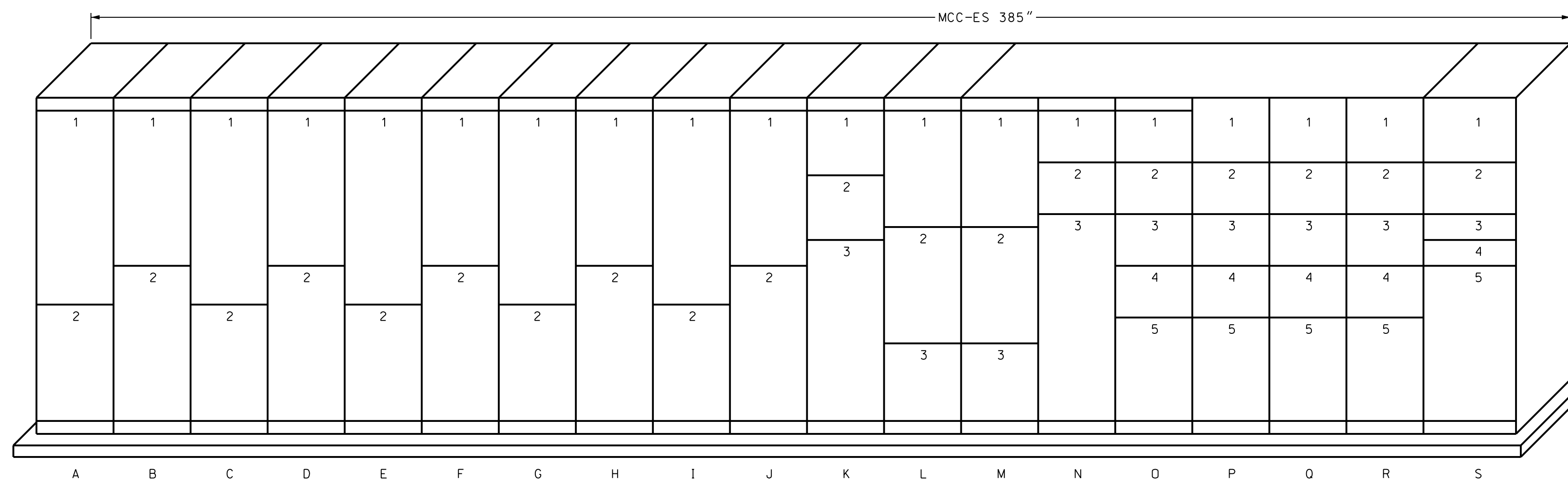
SEE SHEET E14 FOR PANELS HES AND ES SCHEDULES



2 ELECTRICAL ROOM PLAN - POWER
E6 SCALE: 1/4" = 1'-0"

NOTES: (LIGHTING AND POWER PLANS)

- 3-POSITION SWITCH FOR CONTROL OF EXTERIOR LIGHTS: UP-PHOTO, CENTER-OFF, DOWN-MANUAL ON. FURNISH HUBBELL CAT. NO. HBL1381.
- PHOTOCELL MOUNTED UNDER EAVE. EXTEND CONTROL THROUGH 3-POSITION SWITCH (NOTE 1). PROVIDE TORQ 2107.
- EXTEND CIRCUIT THROUGH 3-POSITION SWITCH IN THE ELECTRICAL RM. SEE NOTE 1.
- ALL FLOOR MOUNTED EQUIPMENT TO BE PROVIDED WITH CONCRETE HOUSEKEEPING PAD. SEE 5/E1A.
- WELL HANG UNITS SHALL BE BARD W42HC WITH HOT GAS DEHUMIDIFICATION, 5KW HEATER, SUPPLY AND RETURN GRILLS, COATED COILS AND CABINET, AND WALL MOUNTED PROGRAMMABLE THERMOSTAT. PROVIDE SYSTEM WITH MC4002-A LEAD/LAG CONTROLLER FOR TWO UNITS.



3 MCC-ES ELEVATION & SCHEDULE
E6 SCALE: NONE

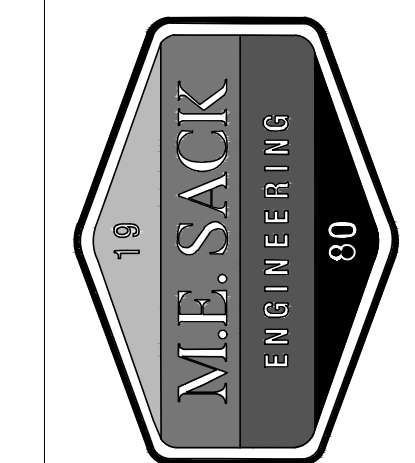
MOTOR CONTROL CENTER MCC-ES									
VOLTAGE: 480V		PHASE: 3	WIRE: 3	MAIN BUS: 800A	VERT BUS: 300A				
BUS BRACING: 65 000 MIN.		MAX. OVERALL LENGTH: 385"			DEMAND LOAD: 448KVA				
UNIT NO.	EQUIPMENT SERVED	HP	STARTER SIZE	CIRCUIT BREAKER FRAME	TRIP	POLES	NOTES	REMARKS	
A-1	SBR BLOWER NO.1	50	VFD	150	125	3			45"
A-2	SPACE								27"
B-1	SBR BLOWER NO.1 LINE REACTOR	N/A	N/A	N/A	N/A	N/A			36"
B-2	SBR BLOWER NO.1 LOAD REACTOR	N/A	N/A	N/A	N/A	N/A			36"
C-1	SBR BLOWER NO.2	50	VFD	150	125	3			45"
C-2	SPACE								27"
D-1	SBR BLOWER NO.2 LINE REACTOR	N/A	N/A	N/A	N/A	N/A			36"
D-2	SBR BLOWER NO.2 LOAD REACTOR	N/A	N/A	N/A	N/A	N/A			36"
E-1	SBR BLOWER NO.3	50	VFD	150	125	3			45"
E-2	SPACE								27"
F-1	SBR BLOWER NO.3 LINE REACTOR	N/A	N/A	N/A	N/A	N/A			36"
F-2	SBR BLOWER NO.3 LOAD REACTOR	N/A	N/A	N/A	N/A	N/A			36"
G-1	SBR BLOWER NO.4	50	VFD	150	125	3			45"
G-2	SPACE								27"
H-1	SBR BLOWER NO.4 LINE REACTOR	N/A	N/A	N/A	N/A	N/A			36"
H-2	SBR BLOWER NO.4 LOAD REACTOR	N/A	N/A	N/A	N/A	N/A			36"
I-1	SBR BLOWER NO.5	50	VFD	150	125	3			45"
I-2	SPACE								27"
J-1	SBR BLOWER NO.5 LINE REACTOR	N/A	N/A						36"
J-2	SBR BLOWER NO.5 LOAD REACTOR	N/A	N/A						36"
K-1	POST-EQ BLOWER NO.1	7.5	VFD	150	25	3			15"
K-2	POST-EQ BLOWER NO.2	7.5	VFD	150	25	3			15"
K-3	SPACE		N/A						42"
L-1	DIGESTER BLOWER NO.1A	20	VFD	150	50	3			27"
L-2	DIGESTER BLOWER NO.1B	20	VFD	150	50	3			27"
L-3	SPACE								18"
M-1	DIGESTER BLOWER NO.2A	20	VFD	150	50	3			27"
M-2	DIGESTER BLOWER NO.2B	20	VFD	150	50	3			27"
M-3	SPACE								18"
N-1	SBR1 MIXER NO.1	10	FVNR	150	35	3			12"
N-2	SBR1 MIXER NO.2	10	FVNR	150	35	3			12"
N-3	SPACE								48"
O-1	SBR NO.1 DDM MIXER NO.1	10	FVNR	150	35	3			12"
O-2	SBR NO.1 DDM MIXER NO.2	10	FVNR	150	35	3			12"
O-3	SBR NO.1 DDM MIXER NO.3	10	FVNR	150	35	3			12"
O-4	SBR NO.1 DDM MIXER NO.4	10	FVNR	150	35	3			12"
O-5	SPACE								24"
P-1	SBR NO.2 DDM MIXER NO.1	10	FVNR	150	35	3			12"
P-2	SBR NO.2 DDM MIXER NO.2	10	FVNR	150	35	3			12"
P-3	SBR NO.2 DDM MIXER NO.3	10	FVNR	150	35	3			12"
P-4	SBR NO.2 DDM MIXER NO.4	10	FVNR	150	35	3			12"
P-5	SPACE								24"
Q-1	SBR NO.1 SLUDGE PUMP NO.1	2.4	FVNR	150	15	3			12"
Q-2	SBR NO.1 SLUDGE PUMP NO.2	2.4	FVNR	150	15	3			12"
Q-3	SBR NO.2 SLUDGE PUMP NO.1	2.4	FVNR	150	15	3			12"
Q-4	SBR NO.2 SLUDGE PUMP NO.2	2.4	FVNR	150	15	3			12"
Q-5	SPACE								24"
R-1	POST-EQ XFER PUMP NO.1	7.5	FVNR	150	25	3			12"
R-2	POST-EQ XFER PUMP NO.2	7.5	FVNR	150	25	3			12"
R-3	POST-EQ XFER PUMP NO.3	7.5	FVNR	150	25	3			12"
R-4	POST-EQ XFER PUMP NO.4	7.5	FVNR	150	25	3			12"
R-5	POST-EQ XFER PUMP NO.5	7.5	FVNR	150	25	3			12"
R-6	SPACE								12"
S-1	DIGESTER SLUDGE PUMP NO.1	5	FVNR	150	20	3			12"H 25"W
S-2	DIGESTER SLUDGE PUMP NO.2	5	FVNR	150	20	3			12"H 25"W
S-3	SPACE								6"H 25"W
S-4	SURGE PROTECTION								6"H 25"W
S-5	800A MAIN LUG - BOTTOM FED	N/A							36"H 25"W

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MOTOR CONTROL CENTER

E6

FILE NO: 2020-10 PRJ
PLOT DATE: February 7, 2024

CADD PLOT
02-FEB-2024
07143
LCAULLEY

MAIN SCADA PANEL AND ANNUNCIATOR CABINET EQUIPMENT

EXISTING TO REMAIN			
PANEL RTU-1001			
EXISTING TO REMAIN			
REUSE TANK LEVEL	ANALOG	AI	TANK LEVEL

PANEL AT HEADWORKS

EXISTING TO REMAIN

SCADA PANEL 'C' - CHEMICAL BUILDING

EQUIPMENT	Signal Type	Signal Input/Output
CHEMICAL FEED SYSTEM	ANALOG	AO FLOW AT UV
ALUM CHEMICAL SKID	DIGITAL	DO START-STOP COMMAND
ALUM CHEMICAL SKID	DIGITAL	DO AUTO-MODE
ALUM CHEMICAL SKID	DIGITAL	DI ALARM
ALUM CHEMICAL SKID	DIGITAL	DI PUMP RUN (7)
ALUM CHEMICAL SKID	DIGITAL	DI PUMP FAIL (7)
ALUM CHEMICAL SKID	ANALOG	AO REMOTE SPEED CONTROL
ALUM CHEMICAL SKID	ANALOG	AI PUMP SPEED OUTPUT (7)
CAUSTIC CHEMICAL SKID	DIGITAL	DO START-STOP COMMAND
CAUSTIC CHEMICAL SKID	DIGITAL	DO AUTO-MODE
CAUSTIC CHEMICAL SKID	DIGITAL	DI ALARM
CAUSTIC CHEMICAL SKID	DIGITAL	DI PUMP RUN (7)
CAUSTIC CHEMICAL SKID	DIGITAL	DI PUMP FAIL (7)
CAUSTIC CHEMICAL SKID	ANALOG	AO REMOTE SPEED CONTROL
CAUSTIC CHEMICAL SKID	ANALOG	AI PUMP SPEED OUTPUT (7)

SCADA PANEL 'B' - BLOWER BUILDING

EQUIPMENT	Signal Type	Signal Input/Output
INFLUENT PUMP STATION		
CONTROL PANEL	DIGITAL	DI PUMP RUN (TYPICAL OF 3)
CONTROL PANEL	DIGITAL	DI DRIVE FAULT (TYPICAL OF 3)
CONTROL PANEL	DIGITAL	DI MOTOR HIGH TEMP (TYPICAL OF 3)
CONTROL PANEL	DIGITAL	DI HI LEVEL
CONTROL PANEL	DIGITAL	DI LOW LEVEL
CONTROL PANEL	DIGITAL	DI FLOAT
CONTROL PANEL	ANALOG	AI MULTI-TRODE
ATS/GENERATOR (ETHERNET CONNECTION)		
ATS	CAT 6	NORMAL POSITION
ATS	CAT 6	EMERGENCY POSITION
ATS	CAT 6	READY TO TRANSFER (TYPICAL OF 2)
GENERATOR	CAT 6	RUN
GENERATOR	CAT 6	PRE-ALARM
GENERATOR	CAT 6	ALARM
GENERATOR	CAT 6	LOW FUEL
SWITCHBOARD - METER (ETHERNET CONNECTION)	CAT 6	VOLTAGE AB, BC, AC (3)
SWITCHBOARD - METER (ETHERNET CONNECTION)	CAT 6	AMPS, PH A, B, C (3)
SWITCHBOARD - METER (ETHERNET CONNECTION)	CAT 6	KW (3 PLUS TOTAL KW)

MCC/SBR PANEL

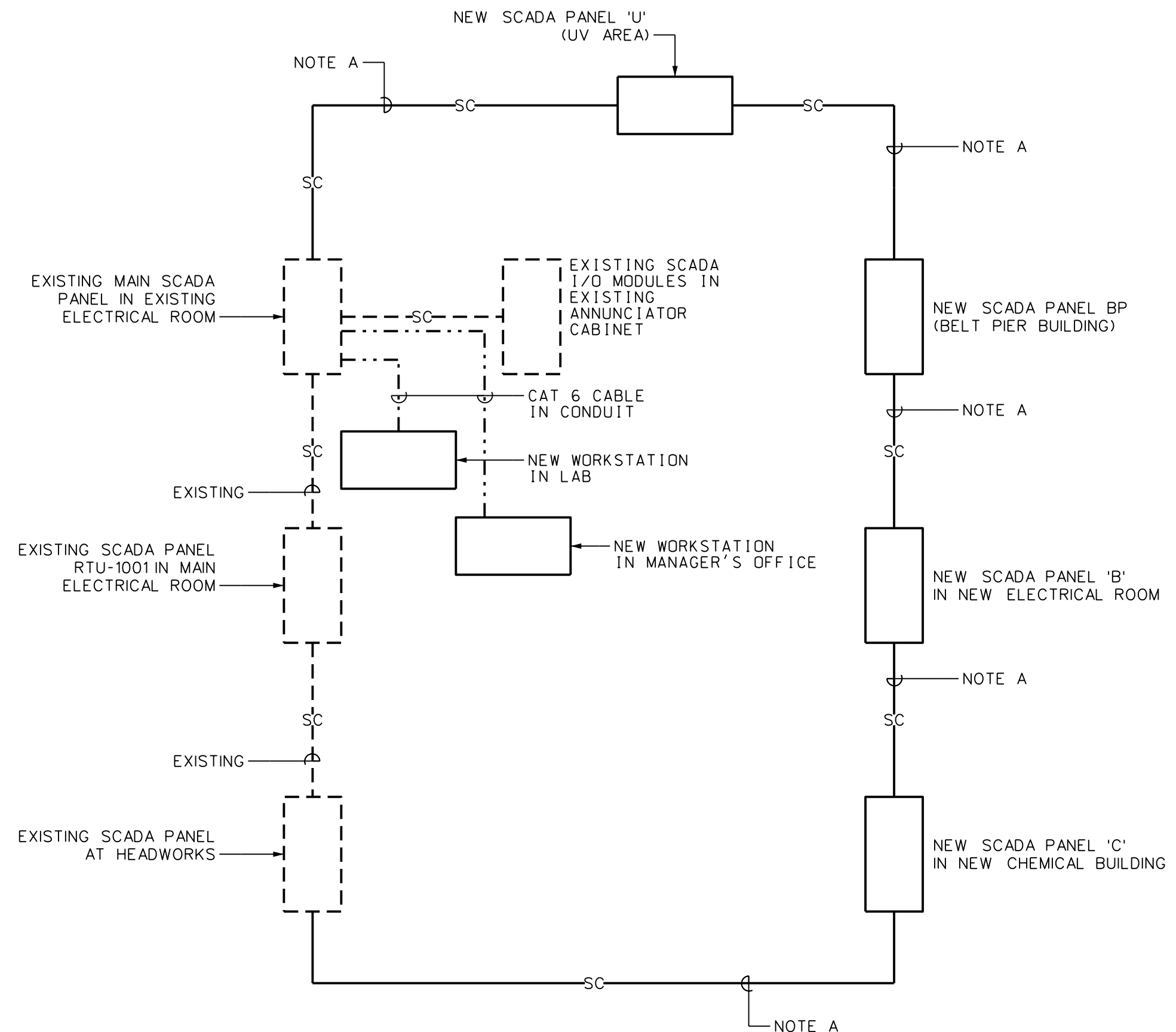
ALL VFDS ETHERNET CONNECTION FOR SBR BLOWERS (5), POST-EQ BLOWER (5)	CAT 6	RUN STATUS
DIGESTER BLOWER (4)	CAT 6	FAIL STATUS
	CAT 6	LOAD SHED CONTROL
	CAT 6	SPEED CONTROL
	CAT 6	SPEED STATUS
ALL FVNR		
DDM MIXERS (8), SLUDGE TRANSFER PUMP (4)	DIGITAL	DI PUMP RUN
POST-EQ TRANSFER PUMP (5)	DIGITAL	DI PUMP FAIL
DIGESTER SLUDGE PUMP (2)	DIGITAL	DI PUMP FAIL
FLOATS (14)	DIGITAL	DI LEVEL
DO (7)	ANALOG	AI DO
PH (7)	ANALOG	AI PH
SBR CONTROL PANEL (ETHERNET)		
SBR CONTROL PANEL	CAT 6	AI DO LEVEL (7)
SBR CONTROL PANEL	CAT 6	AI PH LEVEL (7)
SBR CONTROL PANEL	CAT 6	AI TANK LEVEL (5)

SCADA PANEL 'BP' - BELT PRESS BUILDING

EQUIPMENT	Signal Type	Signal Input/Output
BELT PRESS PANEL	DIGITAL	DI RUNNING
BELT PRESS PANEL	DIGITAL	DI FAULT
POLYMER SYSTEM	DIGITAL	DI RUNNING
POLYMER SYSTEM	DIGITAL	DI FAULT
CONVEYER DRIVE PANEL	DIGITAL	DI RUNNING
CONVEYER DRIVE PANEL	DIGITAL	DI FAULT
EXHAUST FAN EF-3 STARTER	DIGITAL	DI RUN
EXHAUST FAN EF-3 STARTER	DIGITAL	DI FAULT
FAN MONITOR PANEL	DIGITAL	DI ALARM
FIRE ALARM PANEL	DIGITAL	DI ALARM
FIRE ALARM PANEL	DIGITAL	DI TROUBLE

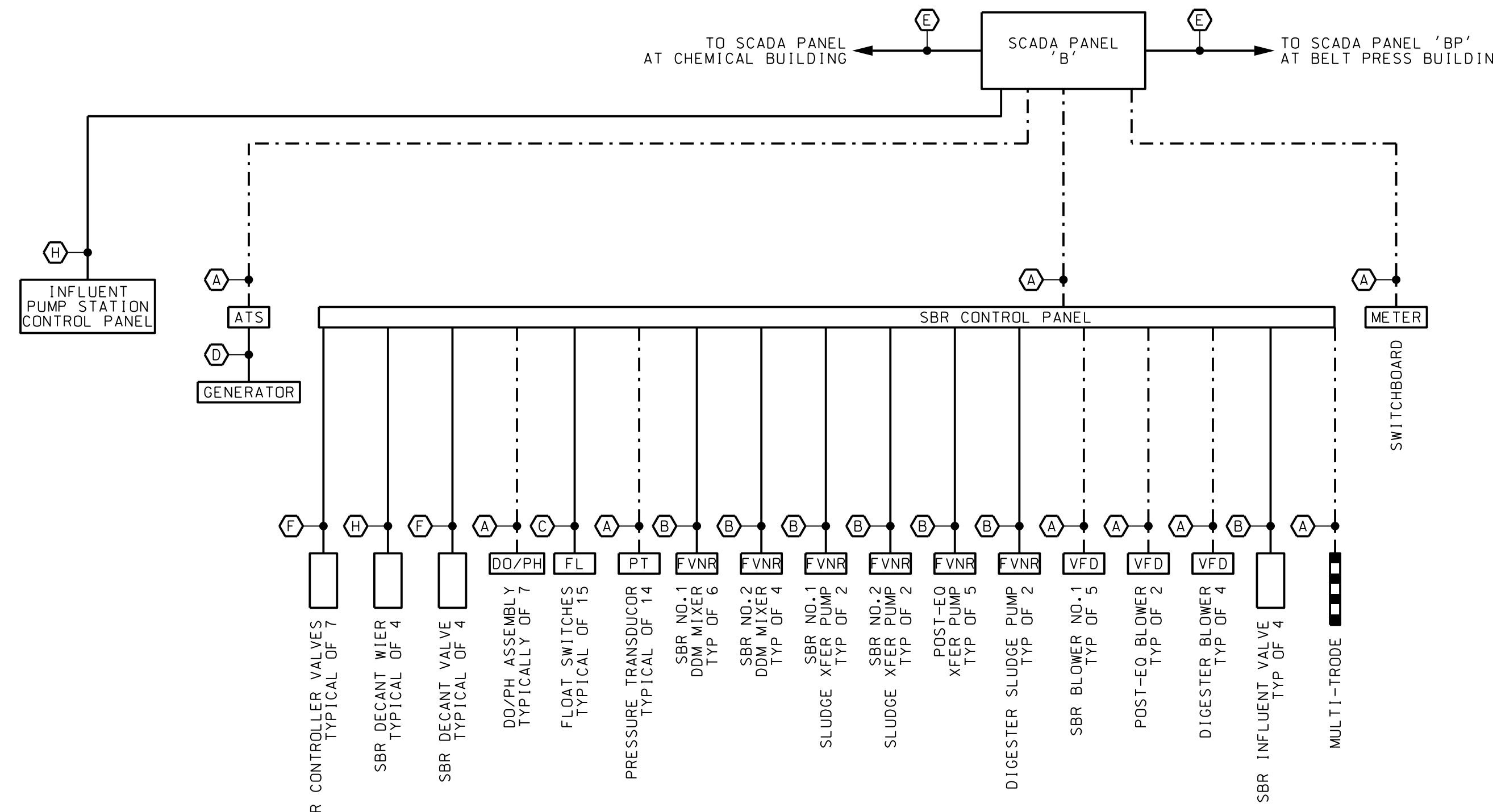
SCADA PANEL 'U' - UV/FILTER AREA

EQUIPMENT	Signal Type	Signal Input/Output
UV SYSTEM CONTROL PANEL (TYPICAL OF 3)		
CONTROL PANEL	ANALOG	AI FLOW
CONTROL PANEL	DIGITAL	DI ALARM
CONTROL PANEL	DIGITAL	DI MAJOR ALARM
TERTIARY FILTERS (TYPICAL OF 3)		
	CAT6	
CONTROL PANEL	DIGITAL	DI ALARM
CONTROL PANEL	DIGITAL	DI MAJOR ALARM
REJECT PUMP STATION	DIGITAL	DI HI LEVEL
SAMPLER	ANALOG	AO FLOW



NOTES:
 A. INTERCONNECT SCADA PANELS WITH 2" C W/ 1" INNERDUCT, EACH WITH 12 CONDUCTOR FIBER, EXTEND THROUGH IN GROUND JUNCTION BOXES AS SHOWN ON SIZE PLAN E2A. NO SPLICES ALLOWED IN FIELD. TERMINATE ONLY IN SCADA PANELS.

1 SCADA RISER
 E7 NOT TO SCALE



2 SCADA RISER - BLOWER BUILDING
 E7 NOT TO SCALE

GENERATOR LOAD CONTROL/SIZING

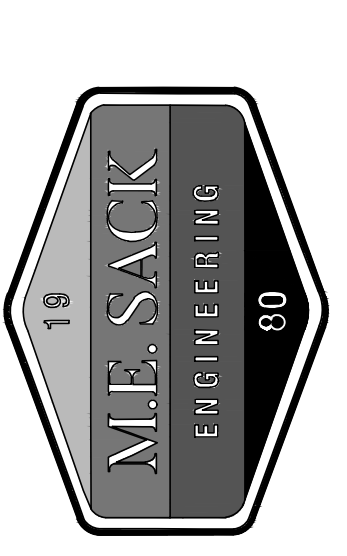
PROGRAM SCADA SYSTEM SO THAT IT CONTROLS LOADS DURING GENERATOR OPERATION, INCLUDING DURING TRANSFER TIMES.
 WHEN POWER FAILS AND GENERATOR STARTS, TRANSFER SWITCH TO PROVIDE 'READY TO TRANSFER' SIGNAL TO SCADA. SCADA TO LOCK OUT ALL LOADS IN STEPS 2-9, AND ALLOW THEM TO START AND RUN AFTER TIME DELAYS SHOWN.
 LOCK OUT ALL OTHER SBR LOADS DURING POWER OUTAGE.
 WHEN POWER IS RESTORED AND BEFORE THE TRANSFER SWITCH RETURNS TO NORMAL POSITION, PROVIDE SAME LOCKOUT AND LOAD STEP CONTROL AS LISTED ABOVE.
 THE GENERATOR SHALL BE SIZED TO START AND RUN THE FOLLOWING LOADS:

STEP	LOAD	RATING
1	INITIAL LOAD	75KVA, 0.8PF
2	SBR BLOWERS	2 - 50HP, VFD
3	SBR BLOWERS	2 - 50HP, VFD
4	INFLUENT PUMP STATION	2 - 25HP, VFD
5	DIGESTOR BLOWER	2 - 20HP, VFD
6	POST EQ BLOWER SBR MIXER	2 - 7.5HP, VFD 4 - 10HP, FVNR
7	SBR MIXER SBR SLUDGE PUMPS	2 - 2.4HP, FVNR 2 - 2.4HP, FVNR
8	POST EQ TRANSFER PUMP DIGESTER SLUDGE PUMP	2 - 7.5HP, FVNR 5HP, FVNR
9	BELT PRESS CONVEYOR	30HP, VFD 5HP, FVNR

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SCADA DETAILS

E7

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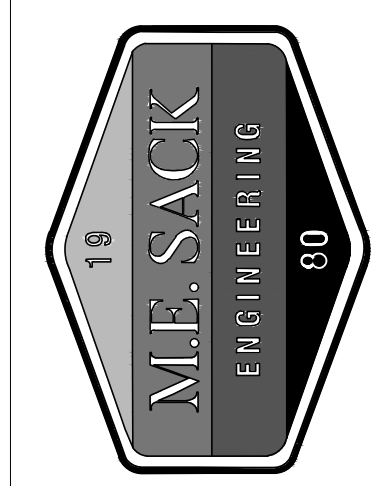
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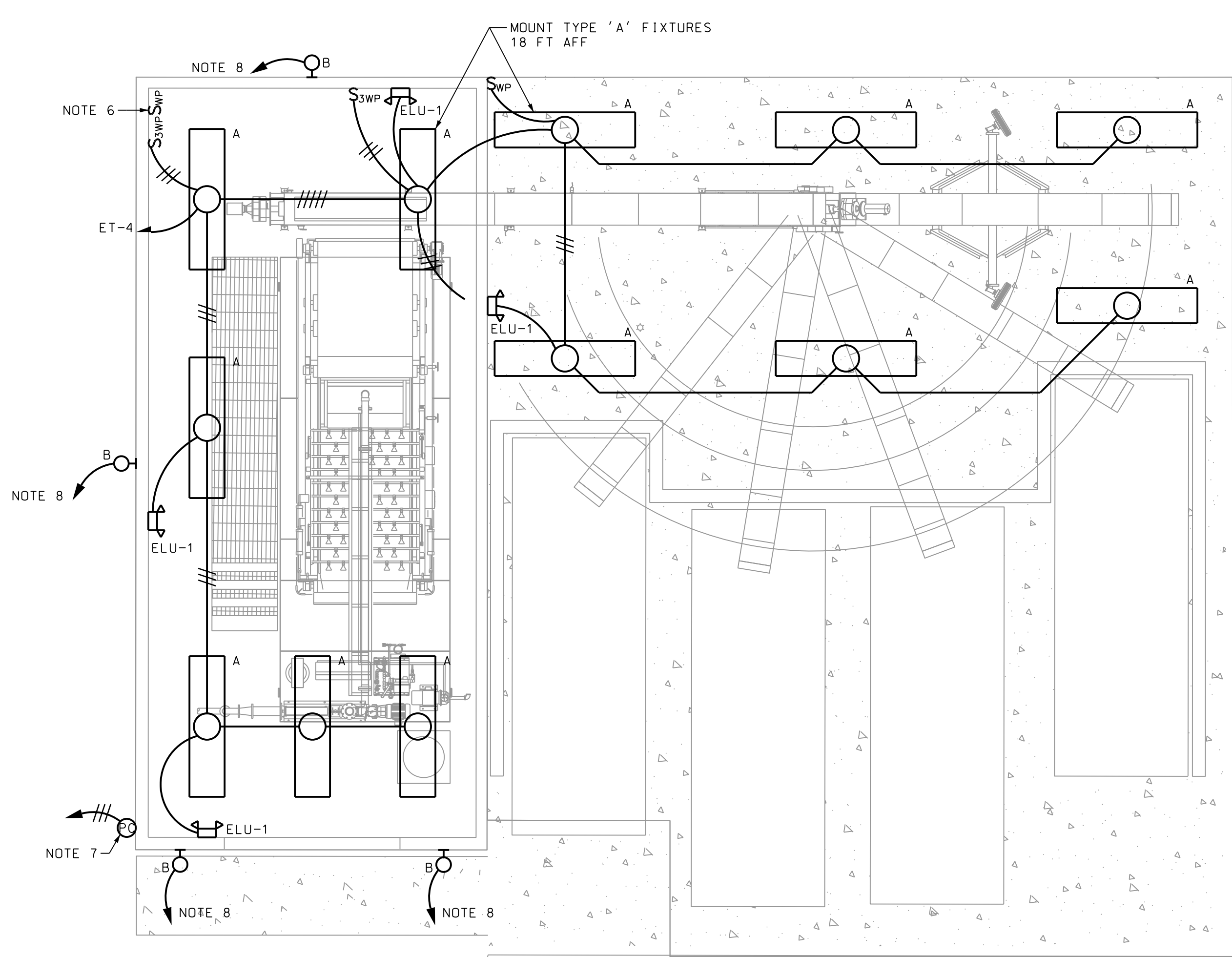
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**BELT PRESS
 BUILDING
 ELECTRICAL PLAN**

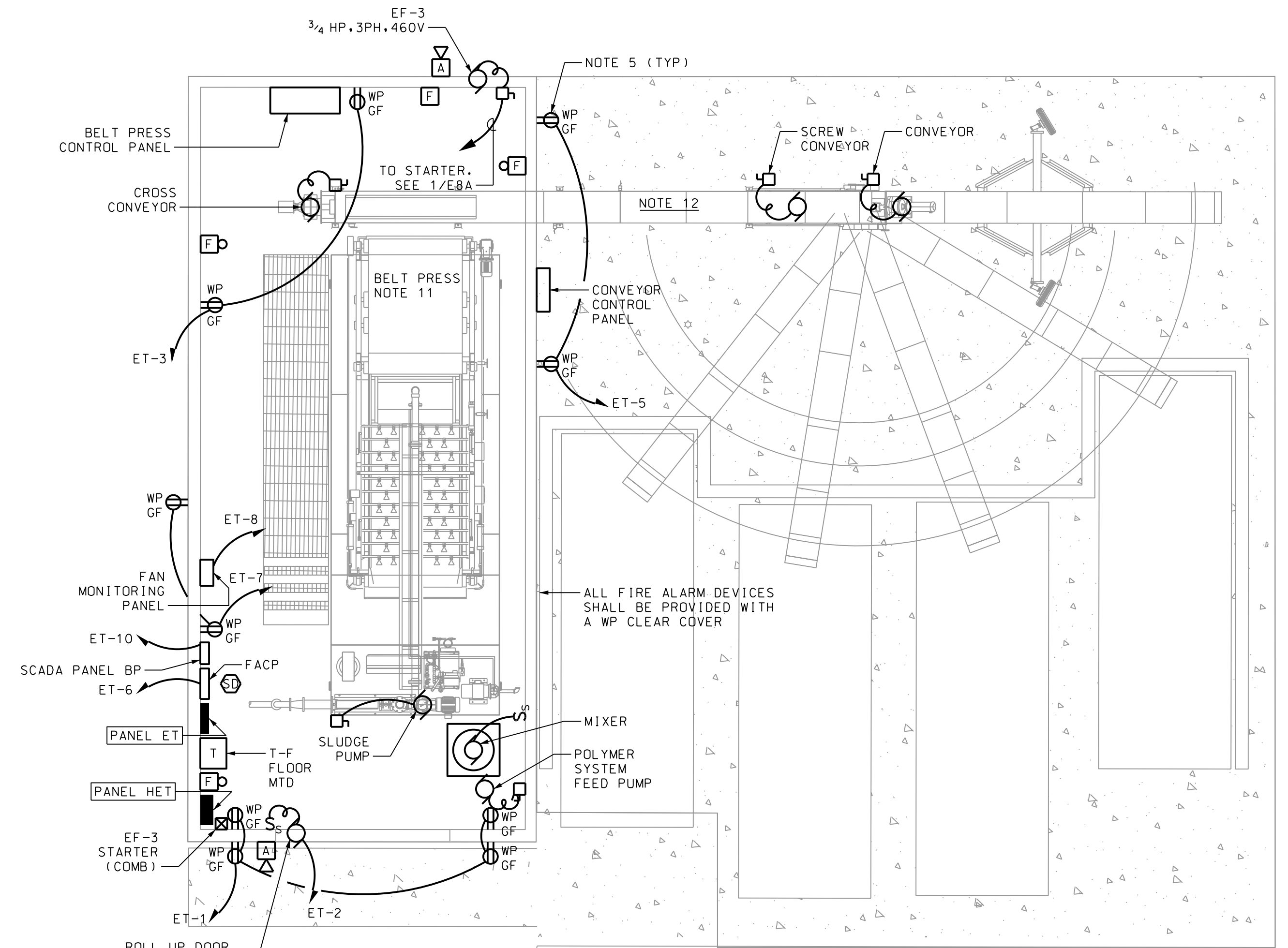
E8

FILE NO: 2020-10 PRJ

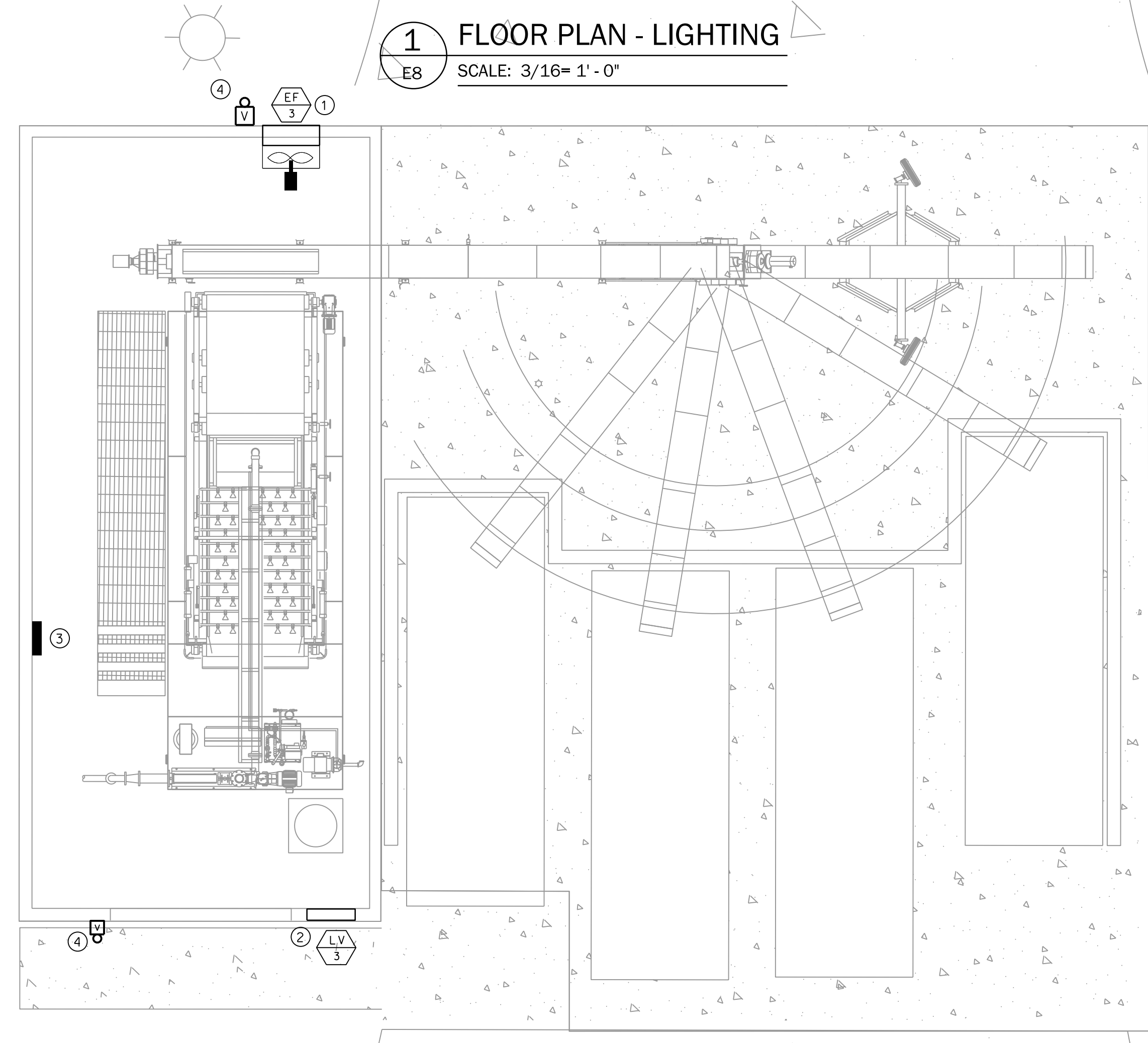
PLOT DATE: February 7, 2024



1 FLOOR PLAN - LIGHTING
 E8 SCALE: 3/16= 1'-0"



2 FLOOR PLAN - POWER
 E8 SCALE: 3/16= 1'-0"



3 FLOOR PLAN - HVAC
 E8 SCALE: 3/16= 1'-0"

NOTES HVAC:

- ① EXHAUST FAN EF-3 SHALL BE GREENHECK MODEL AER OR APPROVED EQUAL. FAN SHALL BE SIZED FOR 4400 CFM AT 0.25 ESP, 3/4 HP AND 19.7 SONES. FAN SHALL BE PROVIDED WITH WALL HOUSING AND DISCONNECT SWITCH. FAN SHALL BE FABRICATED WITH ALUMINUM HOUSING AND IMPELLER WITH SPARK B CONSTRUCTION. INSTALL FAN IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. INSTALL TOP OF FAN 12" BELOW CEILING. FAN SHALL RUN CONTINUOUSLY.
- ② LOUVER LV-3 SHALL BE FIXED BLADE FOR INTAKE AIR GREENHECK MODEL EDJ-601 OR APPROVED EQUAL. LOUVER SIZED FOR 4400 CFM, WIDTH 32" & HEIGHT 56". PROVIDE WITH BIRD SCREEN. INSTALL LOUVER IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. BOTTOM OF LOUVER SHALL BE 1'-0" AFF.
- ③ INSTALL FAN MONITORING CONTROL CABINET HERE. COORDINATE WITH OTHER EQUIPMENT IN AREA CONTROL CABINET SHALL ALARM STROBE AND HORN AT EACH ENTRY DOOR UPON LOSS OF POWER TO FAN. CURRENT TRANSDUCER AND WIRING PROVIDED BY HVAC CONTRACTOR. PROVIDE FOR 'ALARM' TO SCADA.
- ④ INSTALL HORN AND STROBE 80" AFF. INSTALL SIGN BELOW HORN AND STROBE TO READ "BUILDING VENTILATION MONITORING". PROVIDE HORN AND STROBE IN ACCORDANCE WITH NFPA 820 7.6.

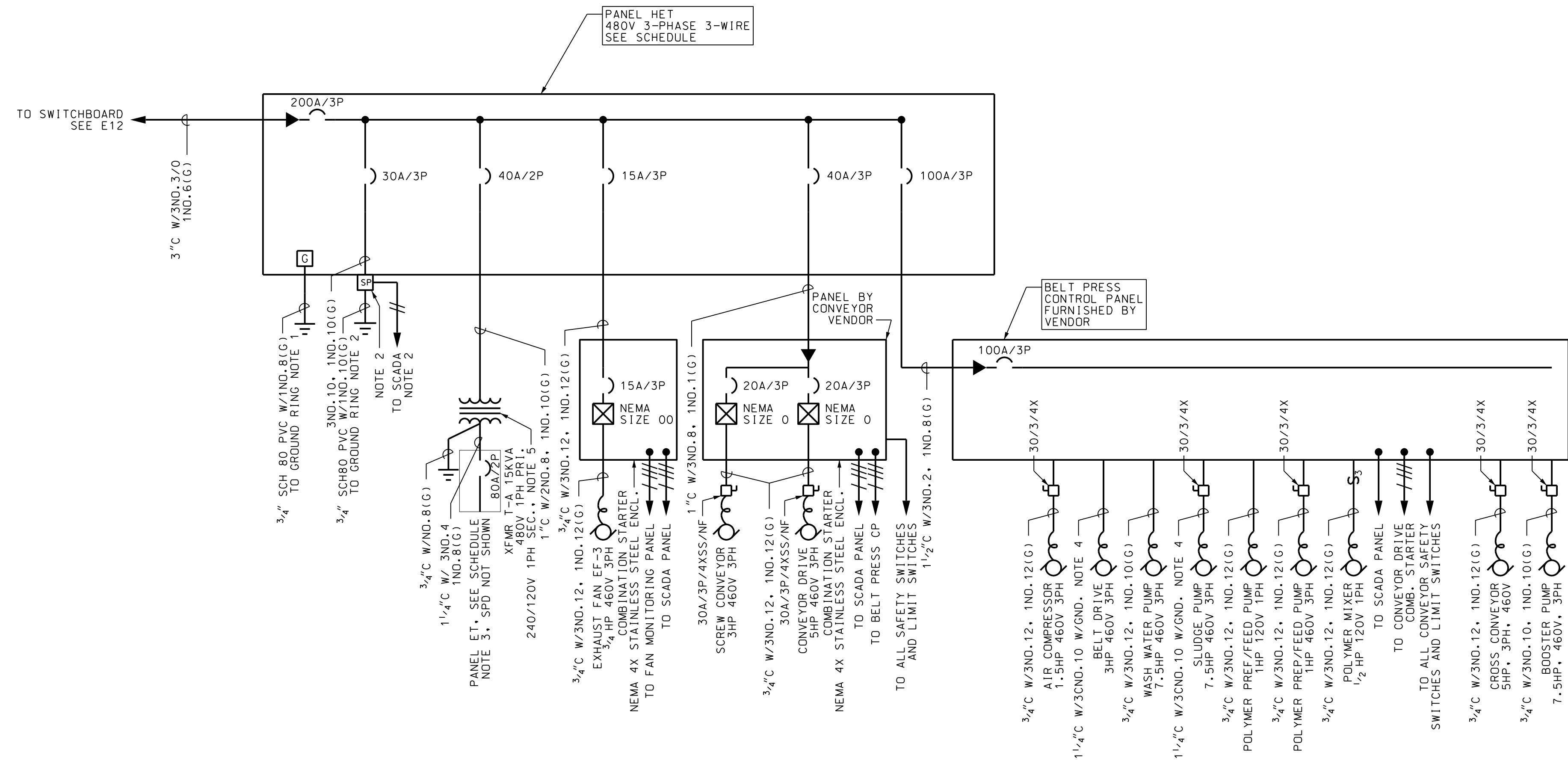
NOTES POWER & LIGHTING:

1. ALL CONDUITS INSTALLED EXPOSED SHALL BE ALUMINUM RIGID CONDUIT (ARC). ALL CONDUITS INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC. UNLESS NOTED OTHERWISE, ALL ELBOWS BELOW GRADE TO BE ARC. CONDUITS INSTALLED CONCEALED ABOVE CEILING MAY BE EMT; TRANSITION TO ARC PRIOR TO EXPOSURE. PROTECT ARC CONDUITS FROM BELOW GRADE (END OF ARC AT PVC) TO 6" ABOVE GRADE WITH TWO COATS OF SCOTCHRAPE PIPE PRIMER AND TWO OVERLAPPING LAYERS OF SCOTCHRAPE 51 TAPE.
2. SEAL ALL CONDUITS ENTERING PANELS AND ENCLOSURES WITH DUCT SEAL. UNLESS OTHERWISE NOTED ALL CONDUITS ENTERING SHEET METAL ENCLOSURES SHALL BE TERMINATED WITH THREADED HUBS TO MAINTAIN THE NEMA RATING OF THE ENCLOSURE.
3. FURNISH AND INSTALL A 20A 120/277V SINGLE POLE, THREE-POSITION SWITCH FOR CONTROL OF EXTERIOR LIGHTS. UP - PHOTO CONTROL, CENTER - OFF, DOWN - MANUAL ON. LABEL SWITCH POSITIONS AND PROVIDE NAMEPLATE FOR SWITCH. PROVIDE HUBBELL HBL1385.
4. EXTEND CIRCUIT THROUGH 3-POSITION SWITCH IN ELECTRICAL ROOM. NOTE 3.
5. PROVIDE WEATHER RESISTANT TYPE RECEPTACLES (HUBBELL GFWRST20W) WITH WEATHER PROOF IN-USE EXTRA DUTY COVER (HUBBELL WP26E). TYPICAL OF ALL INTERIOR AND EXTERIOR RECEPTACLES AT THIS BUILDING.
6. 3-POSITION SWITCH FOR CONTROL OF EXTERIOR LIGHTS: UP-PHOTO, CENTER-OFF, DOWN-MANUAL ON. FURNISH HUBBELL CAT. NO. HBL1381.
7. PHOTOCELL MOUNTED UNDER EAVE. EXTEND CONTROL THROUGH 3-POSITION SWITCH (NOTE 1). PROVIDE TORQ 2107.
8. EXTEND CIRCUIT ET-4 THROUGH 3-POSITION SWITCH IN THE ELECTRICAL RM. SEE NOTE 6.
9. FIELD COORDINATE CONTROL STATION, SAFETY INTERLOCKS, ETC. FOR ROLL-UP DOOR.
10. FIELD COORDINATE CONTROL STATIONS.
11. COORDINATE LOCATION OF ALL FIELD DEVICES WITH BELT PRESS PROVIDED.
12. CONNECT TO ALL FIELD SAFETY AND CONTROL DEVICES ON CONVEYORS AS REQUIRED.

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NOTES:

- EXTEND GROUND TO GROUND RING AROUND BUILDING. CONNECT WITH EXOTHERMIC WELD AT GROUND ROD.
- PROVIDE SQUARED XDSE SERIES SURGE PROTECTION DEVICE.
 - 100 KA PER PHASE, 6 MODES OF PROTECTION (L-G, N-G)
 - CAT. NO. SSP05XDSE10A2.
 - EXTEND ALARM CONDUCTORS TO SCADA.
 - CONNECT TO GROUND RING.
 - MOUNT TO SIDE OF PANEL IMMEDIATELY ADJACENT TO THE BREAKER SERVING THE SPD
 - MINIMIZE CONDUCTOR LENGTH FROM BREAKER TO SPD.
- PROVIDE SQUARED XDSE SERIES SURGE PROTECTION DEVICE.
 - 100 KA PER PHASE, 6 MODES OF PROTECTION (L-L, L-G, N-G)
 - CAT. NO. SSP01XDSE10A2.
 - EXTEND ALARM CONDUCTORS TO SCADA.
 - CONNECT TO GROUND RING. PROVIDE 3/4" SCH.80 PVC W/1NO.10(G).
 - MOUNT TO SIDE OF PANEL IMMEDIATELY ADJACENT TO THE BREAKER SERVING THE SPD
 - MINIMIZE CONDUCTOR LENGTH FROM BREAKER TO SPD. PROVIDE 3NO.10, 1NO.10(G).
- PROVIDE BELDEN 29500 SERIES VFD CABLE IN CONDUIT FOR MOTORS SERVED BY VFDs.
- PROVIDE NON-VENTILATED DRY TYPE TRANSFORMER, WALL MTD.



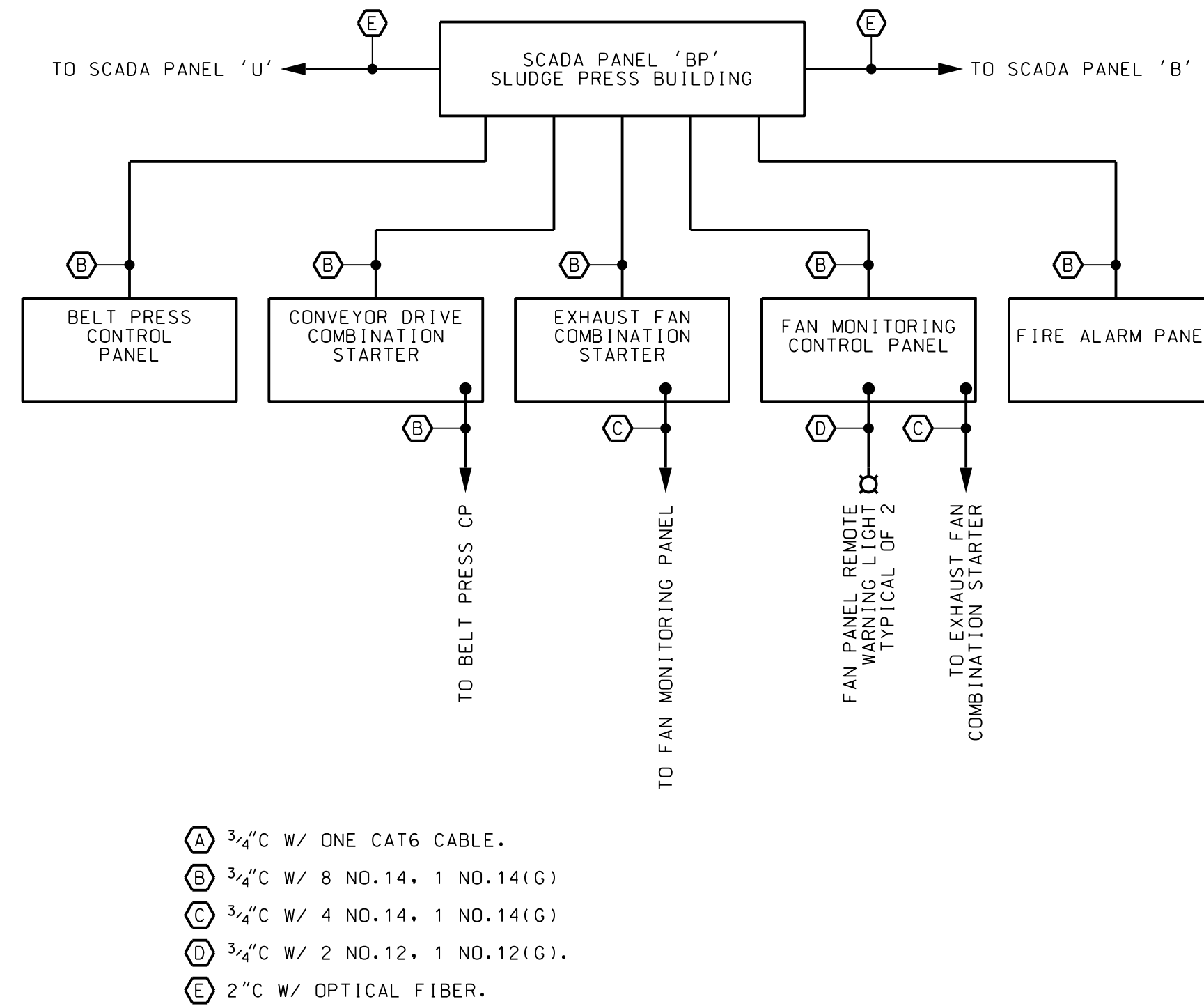
1 ONE-LINE DIAGRAM
E8A SCALE: NONE

SCHEDULE OF PANEL 'HET' BELT PRESS										
VOLTAGE: 480 / 277		PHASE: 3		WIRE: 3						
BUS AMPS: 225 A		DEVICE AMPS: 200 A		MCB		NEMA: 4X				
A.I.C. RATING: 14,000 A										
LOCATION DESCRIPTION	LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD TYPE	LOAD (KVA)	LOCATION DESCRIPTION
BELT PRESS	15.0	H	100A/3P	1	A	2	40/A2P	H	1.9	PANEL ET
40.42FLA 460V 3PH	15.0	H	-	3	B	4	-	H	1.1	15KVA 1PH XMFR T-C
7.5HP, 5HP, 3HP, 1HP	15.0	H	-	5	C	6	20A/1P	A		SPARE
SPARE	1.3	G	15A/3P	7	A	8	50A/3P	F	7.7	SPARE
-	1.3	G	-	9	B	10	-	F	7.7	-
-	1.3	G	-	11	C	12	-	F	7.7	-
CONVEYOR	4.5	G	40A/3P	13	A	14	15A/3P	G	0.7	EXHAUST FAN EF-3
15A 460V 3PH	4.5	G	-	15	B	16	-	G	0.7	3/4HP 460V 3PH
3HP	4.5	G	-	17	C	18	-	G	0.7	FVNR
SPACE				19	A	20				SPACE
-				21	B	22				-
-				23	C	24				-
SURGE PROTECTION			30A/3P	25	A	26				SPACE
-				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	23.1	28.9	NEC Article 440.7
C	Kitchen Equipment	0.0	0.0	NEC Table 220.56	G	Other Motors	19.5	19.5	NEC Article 440.7
D	Air-Conditioning	0.0	0.0	NEC Article 220.60	H	Other Loads	48.0	48.0	
Phase A Connected Load		31.1 KVA		Notes:		TOTAL CONNECTED LOAD		90.6 KVA	
Phase B Connected Load		30.3 KVA				TOTAL DEMAND LOAD		96.4 KVA	
Phase C Connected Load		29.2 KVA				MINIMUM SIZING AMPS		150.6 KVA	
								181.1 AMPS	

SCHEDULE OF PANEL 'ET' BELT PRESS										
VOLTAGE: 240 / 120		PHASE: 1		WIRE: 3						
BUS AMPS: 125 A		DEVICE AMPS: 80 A		MCB		NEMA: 4X				
A.I.C. RATING: 10,000 A										
LOCATION DESCRIPTION	LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD TYPE	LOAD (KVA)	LOCATION DESCRIPTION
RECEPTACLES GFCI BREAKER	0.4	B	20A/1P	1	A	2	20A/1P	G	1.5	ROLL UP DOOR
RECEPTACLES GFCI BREAKER	0.4	B	20A/1P	3	B	4	20A/1P	A	0.8	LIGHTING
RECEPTACLES GFCI BREAKER	0.4	B	20A/1P	5	A	6	20A/1P	H	0.2	FIRE ALARM PANEL - RED *
RECEPTACLES GFCI BREAKER	0.4	B	20A/1P	7	B	8	20A/1P	H	0.1	FAN MONITORING PANEL
SPARE			20A/1P	9	A	10	20A/1P	H	0.5	SCADA PANEL BP
SPARE			20A/1P	11	B	12	20A/1P			SPARE
SPARE			20A/1P	13	A	14	20A/1P			SPARE
SURGE PROTECTION			30A/2P	15	B	16	20A/1P			SPARE
-				17	A	18	20A/1P			SPARE

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	0.8	1.0	NEC Article 215.3	E	Heating	0.0	0.0	NEC Article 220.60
B	Receptacles	1.6	1.6	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	1.5	1.5	NEC Article 440.7
D	Air-Conditioning	0.0	0.0	NEC Article 220.60	H	Other Loads	0.8	0.8	
Phase A Connected Load		3.0 KVA		Notes: * TRIP FREE LOCK TAB		TOTAL CONNECTED LOAD		4.7 KVA	
Phase B Connected Load		1.7 KVA				TOTAL DEMAND LOAD		4.9 KVA	
						MINIMUM SIZING AMPS		7.7 KVA	
								31.9 AMPS	



2 SCADA RISER - BELT PRESS BUILDING
E8A SCALE: NONE

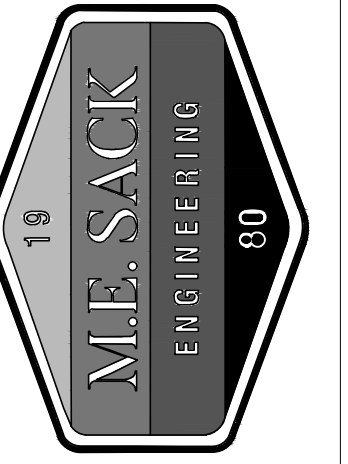
- A 3/4" W/ ONE CAT6 CABLE.
- B 3/4" W/ 8 NO.14, 1 NO.14(G)
- C 3/4" W/ 4 NO.14, 1 NO.14(G)
- D 3/4" W/ 2 NO.12, 1 NO.12(G)
- E 2" W/ OPTICAL FIBER.

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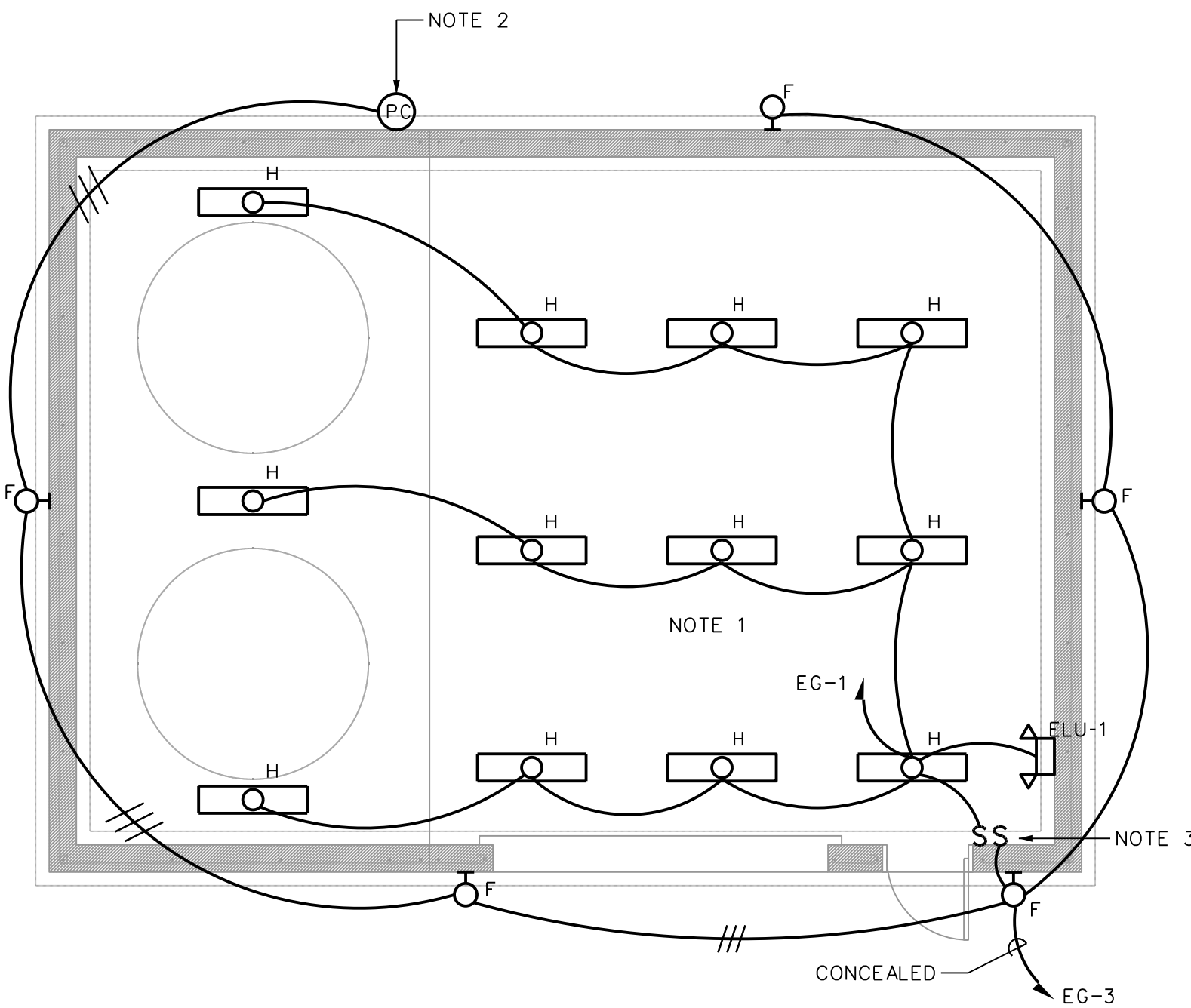
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BELT PRESS BUILDING ONE-LINE DIAGRAM SCHEDULE & NOTES

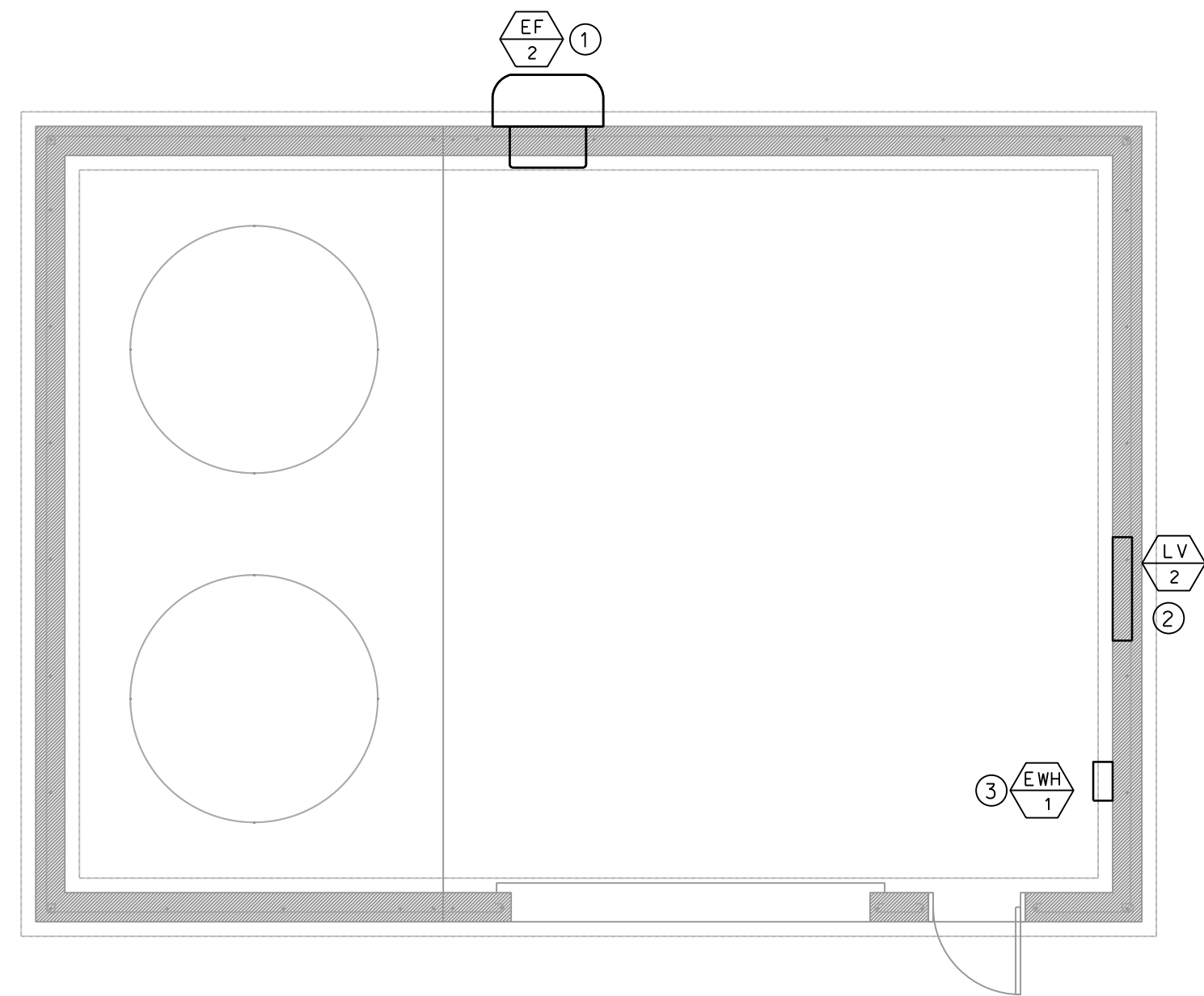
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FILE NO: 2020-10 PRJ
PLOT DATE: February 7, 2024

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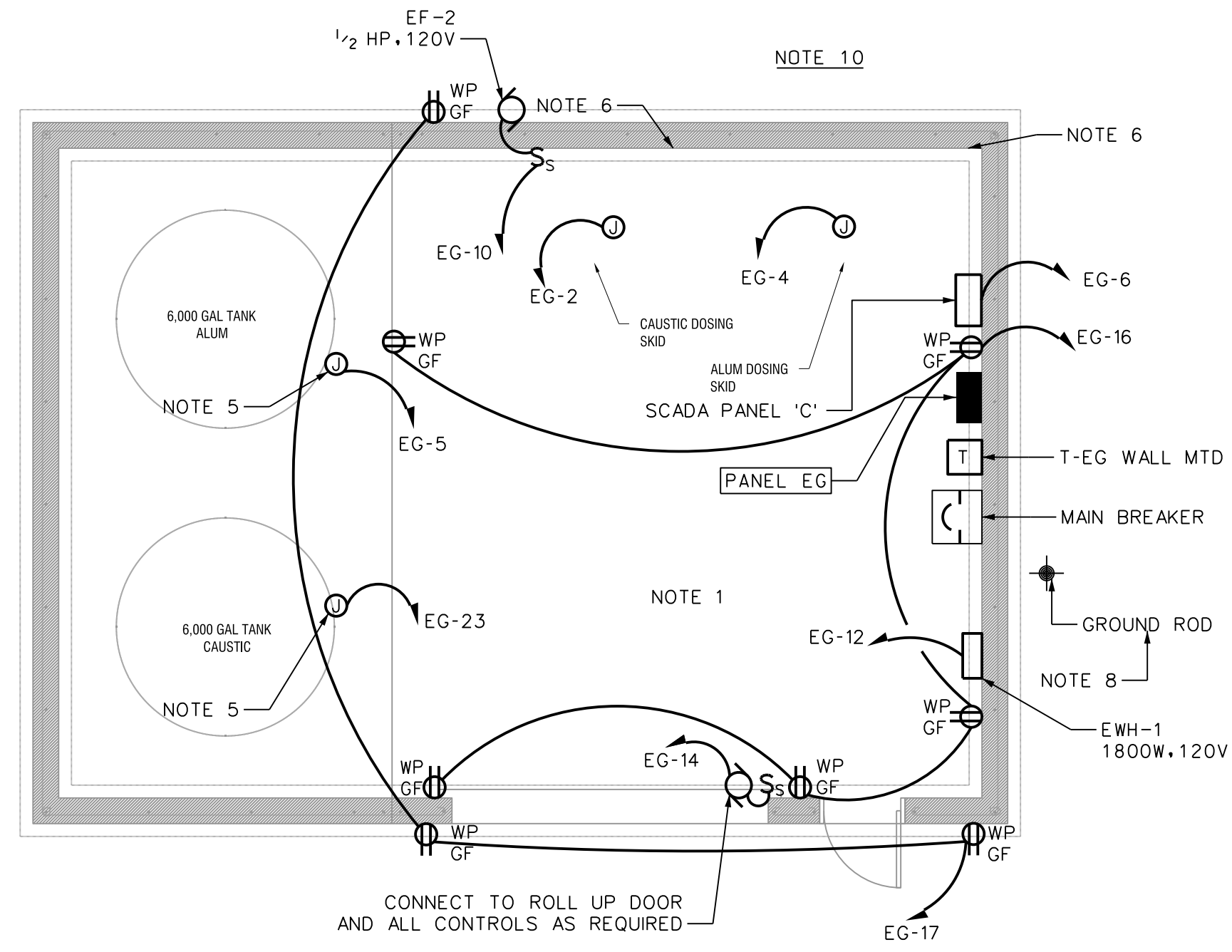
1 CHEMICAL BUILDING FLOOR PLAN - LIGHTING
 E9 SCALE: 3/16= 1'-0"



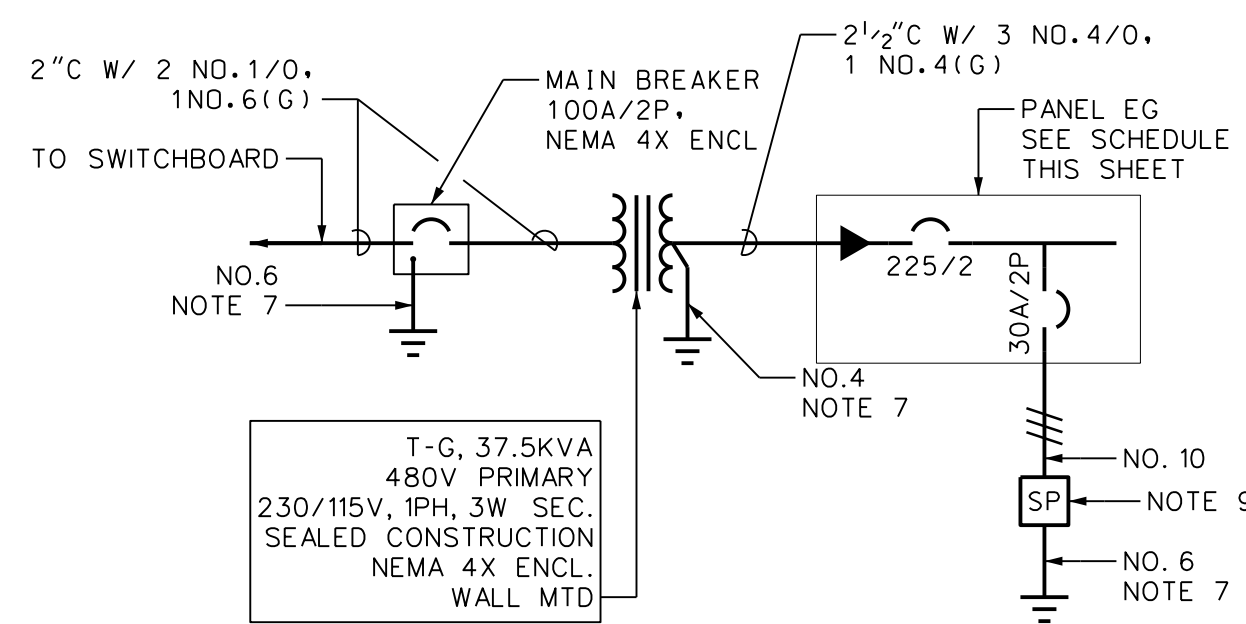
NOTES: (HVAC PLANS)

- 1 EXHAUST FAN EF-2 SHALL BE GREENHECK MODEL CUE WALL MOUNT OR APPROVED EQUAL. FAN SHALL BE SIZED FOR 1500 CFM AT 0.25 ESP. 1/2 HP AND 7.4 SONES. FAN SHALL BE PROVIDED WITH MOUNTING BRACKET, WALL GRILLE, AND DISCONNECT SWITCH. FAN SHALL HAVE HI-PRO POLYESTER COATING FOR CORROSIVE ATMOSPHERE. MOUNT WITH BOTTOM OF FAN 12" AFF.
- 2 LOUVER LV-2 SHALL BE FIXED BLADE FOR INTAKE AIR GREENHECK MODEL EDJ-601 OR APPROVED EQUAL. LOUVER SIZED FOR 1500 CFM, WIDTH 28" & HEIGHT 28". PROVIDE WITH BIRD SCREEN. MOUNT HIGH ON WALL. COORDINATE WITH STRUCTURE.
- 3 ELECTRIC WALL HEATER EWH-1 SHALL BE OMARK MODEL CWH OR APPROVED EQUAL. MOUNTING HEIGHT 1 FT AFF. PROVIDE WITH INTEGRAL THERMOSTAT, SURFACE MOUNTING FRAME AND DISCONNECT SWITCH. HEATER SIZED FOR 1.8 KW.

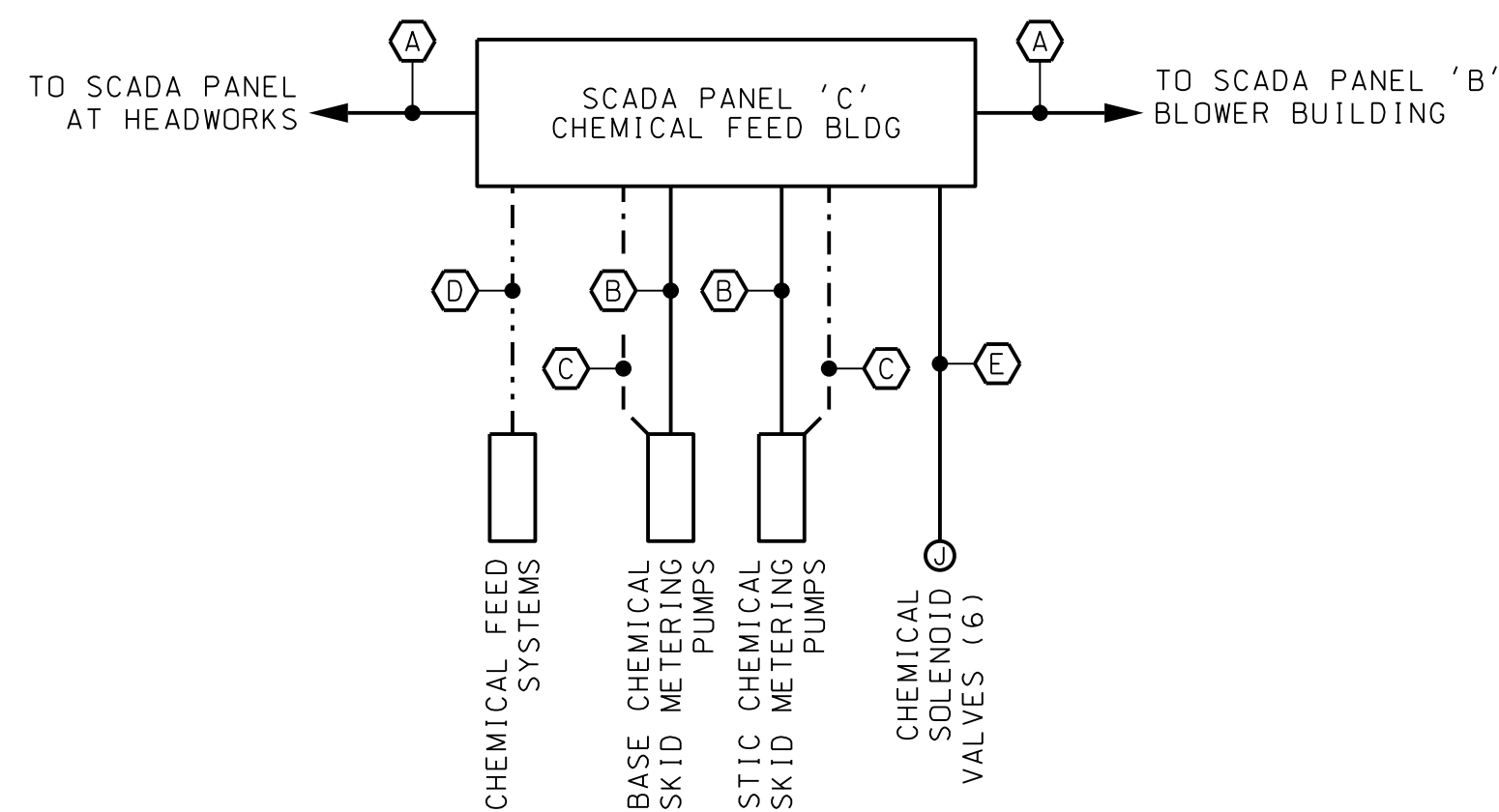
3 CHEMICAL BUILDING FLOOR PLAN - HVAC
 E9 SCALE: 3/16= 1'-0"



2 CHEMICAL BUILDING FLOOR PLAN - POWER
 E9 SCALE: 3/16= 1'-0"



4 CHEMICAL BLDG ONE-LINE DIAGRAM
 E9 SCHEMATIC ONLY



- A 2" C W/ OPTICAL FIBER
- B 1 1/2" C W/ 40NO.14, 1NO.14(G) (6 SPARE)
- C 2" C W/ 20 SHIELDED CABLES (6 SPARE)
- D 1" C W/ 4 SHIELDED CABLES (2 SPARE)
- E 3/4" C W/ 2 NO.14, 1 NO.14(G)

5 CHEMICAL BLDG SCADA RISER
 E9 SCHEMATIC ONLY

SCHEDULE OF PANEL 'EG' CHEMICAL BLDG											
VOLTAGE: 240 / 120			PHASE: 1			BUS AMPS: 225 A			WIRE: 3		
A.I.C. RATING: 10,000 A			DEVICES: 225 A			MCB			NEMA: 4X		
LOCATION DESCRIPTION	LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD TYPE	LOAD (KVA)	LOCATION DESCRIPTION	
LIGHTS	0.6	A	20A/1P	1	A	2	20A/1P	H	1.5	CHEMICAL SKID	
EXTERIOR LIGHTS	1.5	E	20A/1P	3	B	4	20A/1P	H	1.5	CHEMICAL SKID	
ALUM HEAT TAPE	0.5	E	20A/1P	5	A	6	20A/1P	H	0.5	SCADA PANEL	
ALUM HEAT TAPE	1.0	E	20A/1P	7	B	8	20A/1P	E	1.8	EH-1 1.8KW 120V 1PH	
ALUM HEAT TAPE	1.0	E	20A/1P	9	A	10	20A/1P	G	1.6	EF-2 1/2HP 120V 1PH	
ALUM HEAT TAPE	1.0	E	20A/1P	11	B	12	20A/1P	B	0.6	RECEPTACLES	
ALUM HEAT TAPE	1.0	E	20A/1P	13	A	14	20A/1P	G	1.6	PULL UP DOOR	
ALUM HEAT TAPE	1.0	E	20A/1P	15	B	16	20A/1P	B	0.8	RECEPTACLES	
ALUM HEAT TAPE	1.0	E	20A/1P	17	A	18	20A/1P			SPARE	
ALUM HEAT TAPE	1.0	E	20A/1P	19	B	20	20A/1P			SPARE	
ALUM HEAT TAPE	1.0	E	20A/1P	21	A	22	20A/1P			SPARE	
CAUSTIC HEAT TAPE	1.5	E	20A/1P	23	B	24	20A/1P			SPARE	
CAUSTIC HEAT TAPE	0.5	E	20A/1P	25	A	26	20A/1P			SPARE	
CAUSTIC HEAT TAPE	1.0	E	20A/1P	27	B	28	20A/1P			SPARE	
CAUSTIC HEAT TAPE	1.0	E	20A/1P	29	A	30	20A/1P			SPARE	
CAUSTIC HEAT TAPE	1.0	E	20A/1P	31	B	32	20A/1P			SPARE	
CAUSTIC HEAT TAPE	1.0	E	20A/1P	33	A	34	20A/1P			SPARE	
CAUSTIC HEAT TAPE	1.0	E	20A/1P	35	B	36	20A/1P			SPARE	
CAUSTIC HEAT TAPE	1.0	E	20A/1P	37	A	38	20A/1P			SPARE	
SURGE PROTECTION		H	30A/2P	39	B	40	20A/1P			SPARE	
SURGE PROTECTION		H	-	41	A	42	20A/1P			SPARE	

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	0.6	0.8	NEC Article 215.3	E	Heating	19.8	19.8	NEC Article 220.60		
B	Receptacles	1.4	1.4	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	3.2	3.2	NEC Article 440.7		
D	Air-Conditioning	0.0	0.0	NEC Article 220.60	H	Other Loads	3.5	3.5			
Phase A Connected Load		13.8	KVA	Notes:		TOTAL CONNECTED LOAD		28.5	KVA	118.8	AMPS
Phase B Connected Load		14.7	KVA			TOTAL DEMAND LOAD		28.7	KVA	119.4	AMPS
						MINIMUM SIZING AMPS		44.8	KVA	186.5	AMPS

NOTES POWER & LIGHTING:

- 1. ALL CONDUITS AND BOXES IN THIS BUILDING TO BE PVC. ALL SUPPORTS TO BE FIBERGLASS. HARDWARE TO BE 316 STAINLESS STEEL.
- 2. PHOTOCELL MOUNTED UNDER EAVE. EXTEND CONTROL THROUGH 3-POSITION SWITCH (NOTE 4). PROVIDE TORQ 2107.
- 3. FURNISH AND INSTALL A 20A 120/277V SINGLE POLE, 3-POSITION SWITCH FOR CONTROL OF EXTERIOR LIGHTS. UP - PHOTO CONTROL, CENTER - OFF, DOWN - MANUAL ON. LABEL SWITCH POSITIONS AND PROVIDE NAMEPLATE FOR SWITCH. PROVIDE HUBBELL HBL1385.
- 4. EXTEND CIRCUIT THROUGH 3-POSITION SWITCH IN ELECTRICAL ROOM. REFER TO NOTES 2 AND 3.
- 5. EXTEND CIRCUIT SHOWN AND CONNECT TO HEAT TAPE ON CHEMICAL TANK. COORDINATE ALL CONNECTION IN FIELD.
- 6. CONNECT TO HEAT TAPE ON FIELD PIPING AS NOTED:
 ALUM: EG-9,11,13,15,17,19,21
 CAUSTIC: EG-23,25,27,29,31,33,35,37
 MAKE ALL CONNECTIONS AS REQUIRED.
- 7. EXTEND GROUNDING TO GROUND, BUILDING STEEL, AND CONCRETE ENCASED ELECTRODE.
- 8. PROVIDE CONCRETE ENCASED ELECTRODE PER NEC 250.52A3.
- 9. SURGE PROTECTION INTEGRAL TO CONTROL PANEL. PROVIDE SQUARE D XSE SERIES TYPE 2 SPD, 100KA PER PHASE: CAT. NO. SSPOSXSE10A2.
- 10. EXTEND CONTROL CONDUCTORS IN CONDUIT TO 6 ELECTRIC CONTROL CHEMICAL SOLENOID VALVES AT SBR BASINS 1, 2 & 3.

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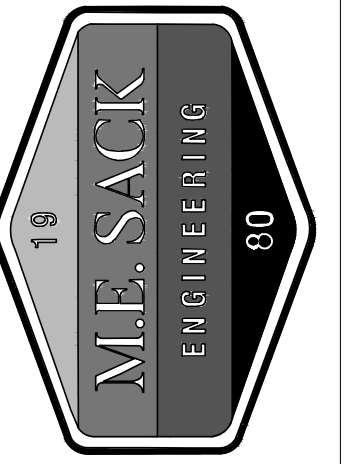
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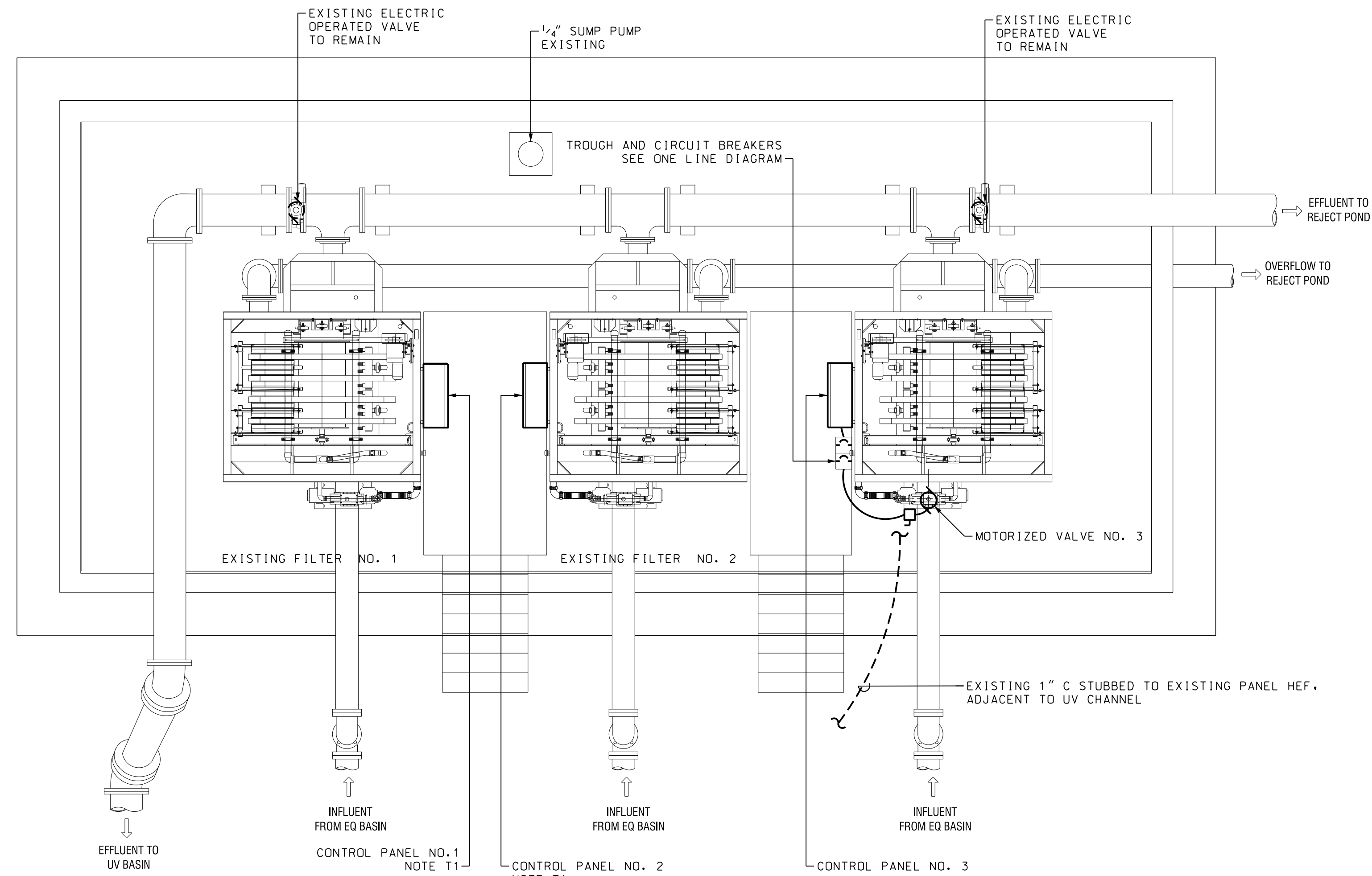
WWTP Expansion

CHEMICAL BUILDING ELECTRICAL PLAN

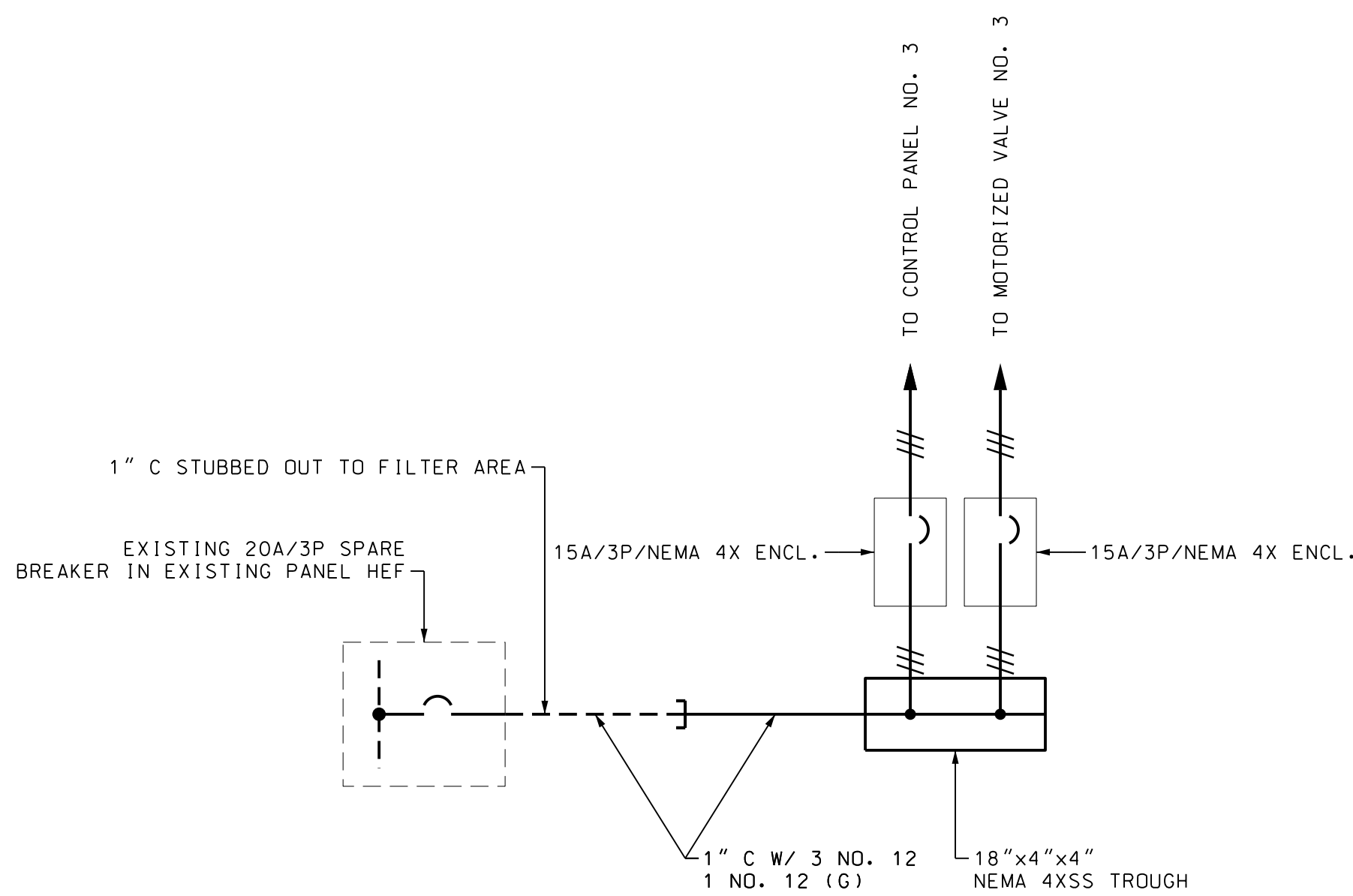
E9

FILE NO: 2020-10 PRJ
 PLOT DATE: February 7, 2024

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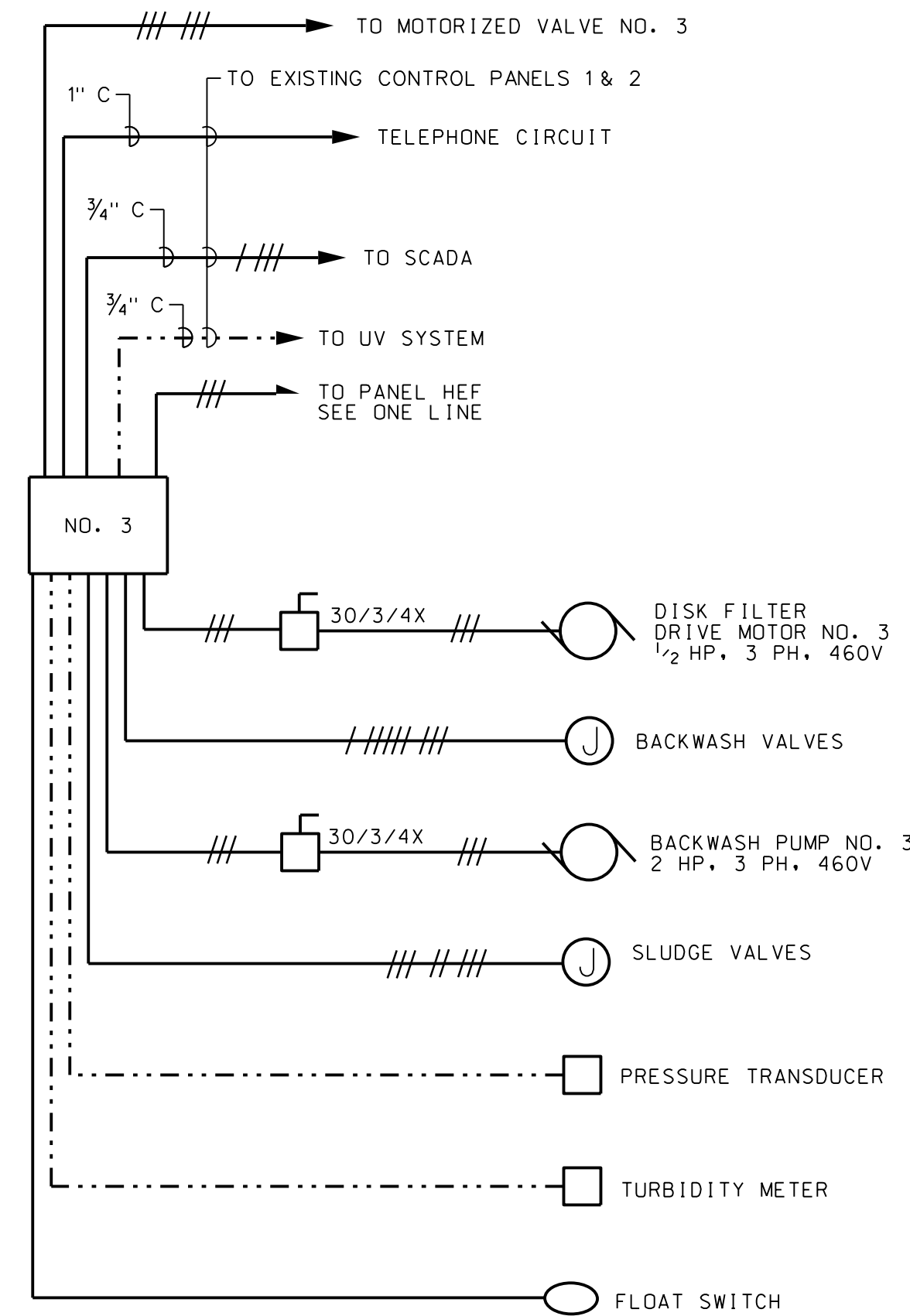
1 TERTIARY FILTERS POWER PLAN
 E10 SCALE: 1/4" = 1'-0"



3 TERTIARY FILTER NO. 3 ONE LINE DIAGRAM
 E10 SCALE: 1/4" = 1'-0"

NOTES: TERTIARY FILTERS

T1. REMOVE EXISTING CONTROL PANEL AND REPLACE WITH NEW. SEE SPEC 15561-2.18



NOTES:
 A. DIAGRAM IS BASED ON ONE VENDOR. PROVIDE ALL CONNECTIONS AS REQUIRED BY EQUIPMENT PROVIDED. PROVIDE POWER AND SIGNAL WIRING TO ALL METERS.
 B. INTERCONNECT CONTROLS FROM FILTER CONTROL PANELS AS REQUIRED.

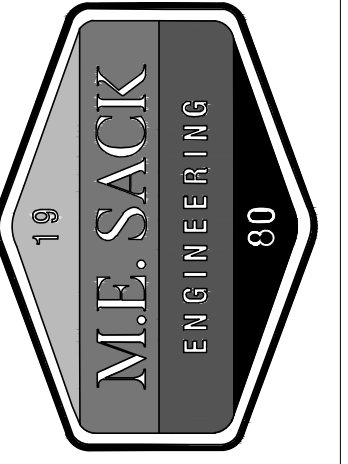
2 FILTER SYSTEM RISER DIAGRAM
 E10 SCHEMATIC ONLY

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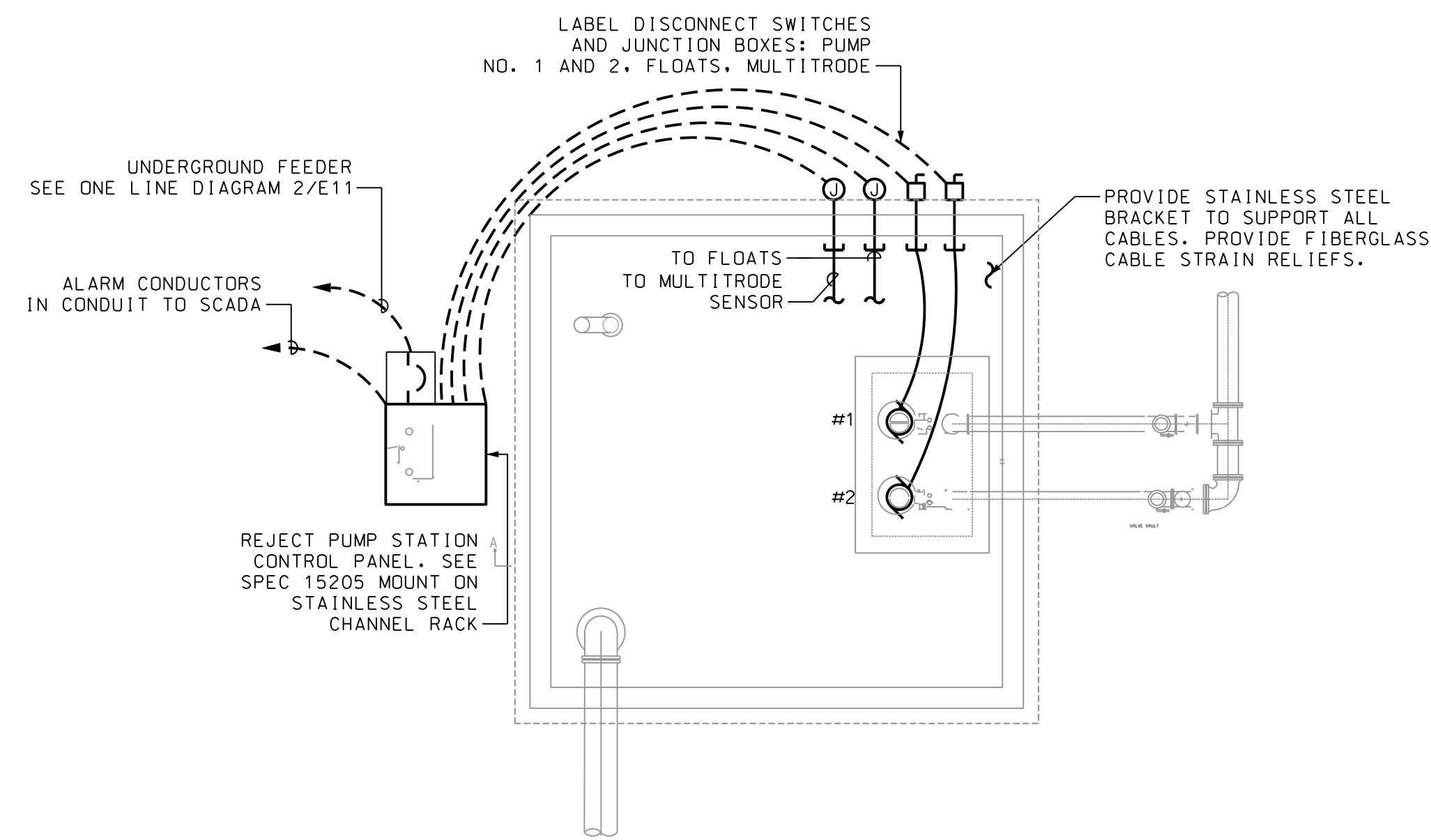
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**TERTIARY
 FILTER
 PLANS**

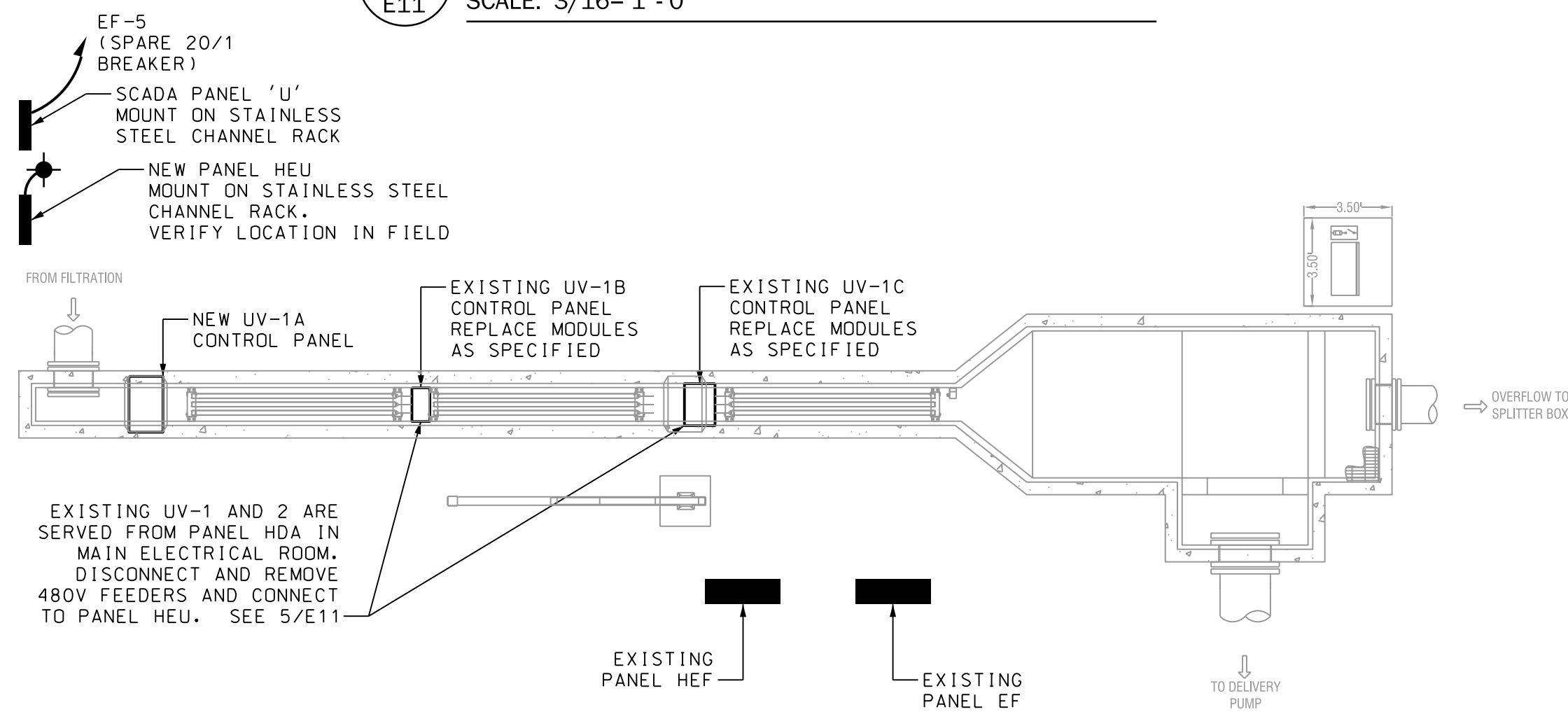
E10

FILE NO: 2020-10 PRJ
 PLOT DATE: February 7, 2024

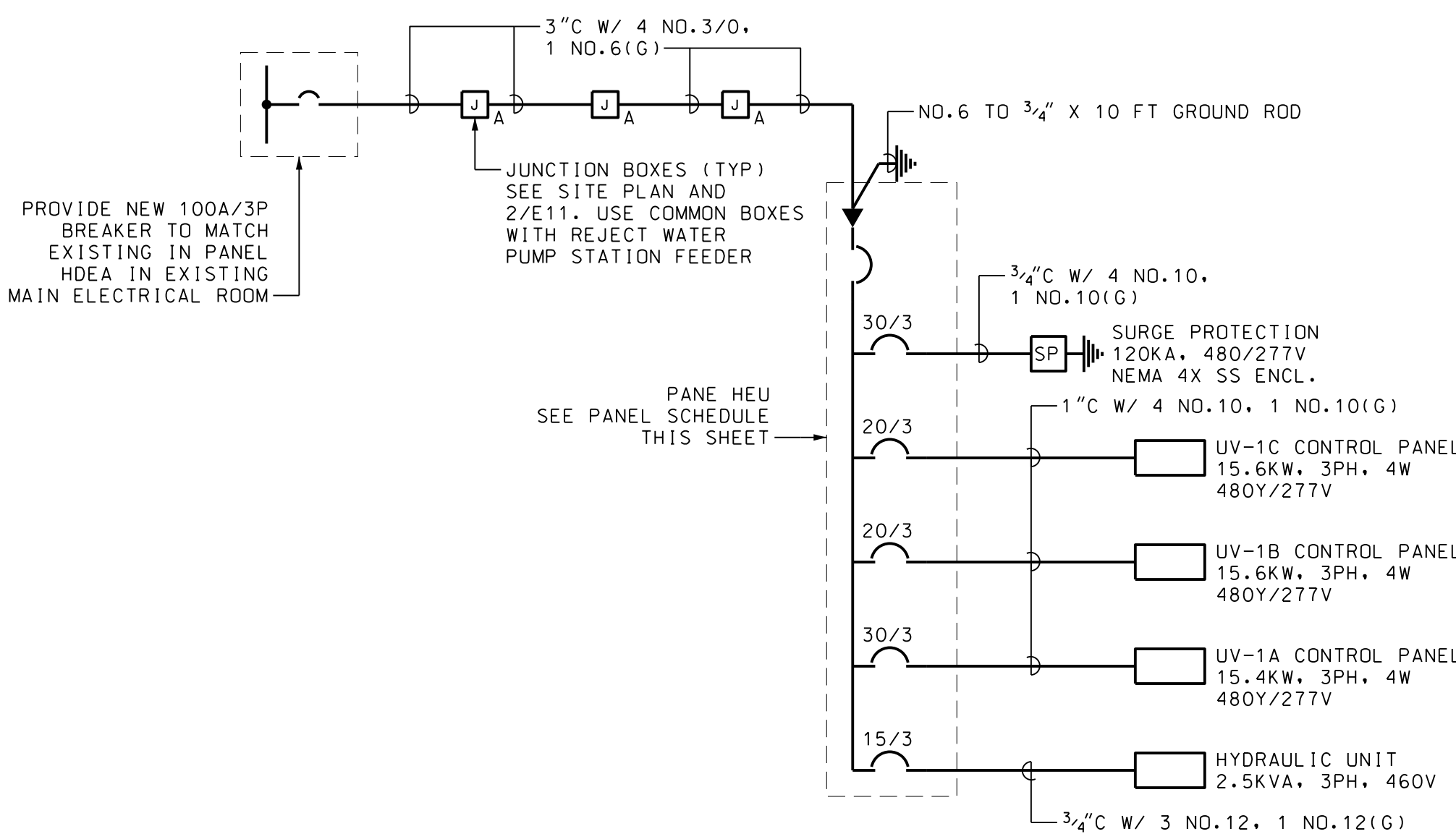
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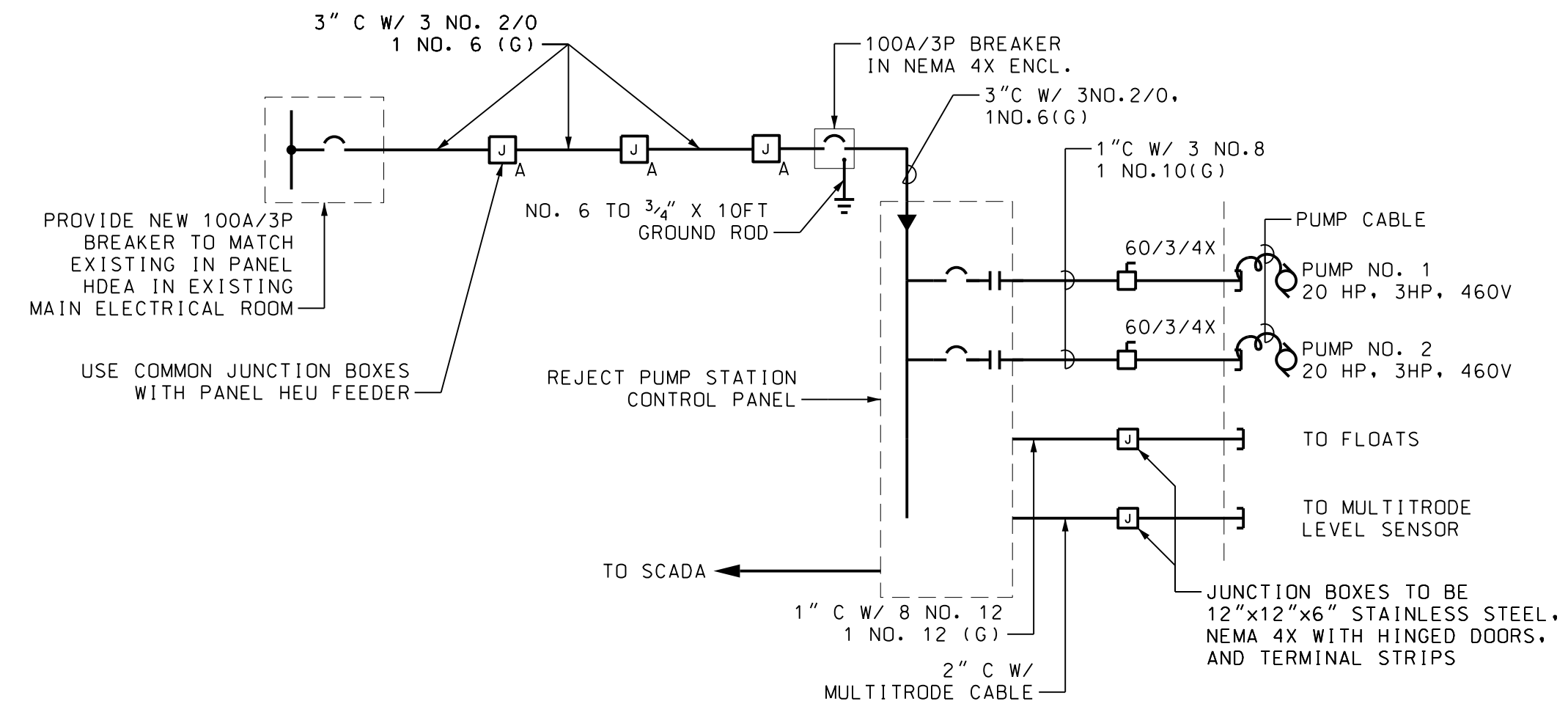
1 REJECT PUMP STATION - ELECTRICAL
E11 SCALE: 3/16= 1'-0"



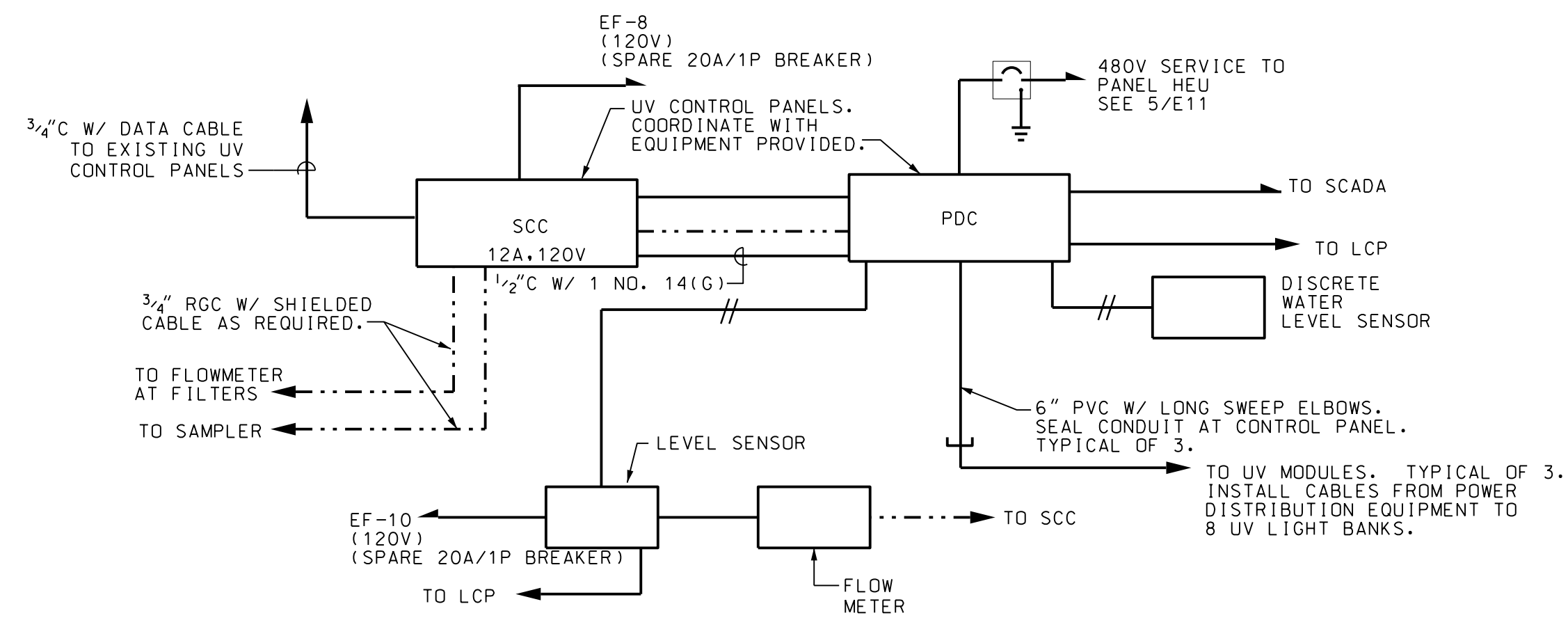
3 UV SYSTEM ELECTRICAL PLAN
E11 SCALE: 3/16= 1'-0"



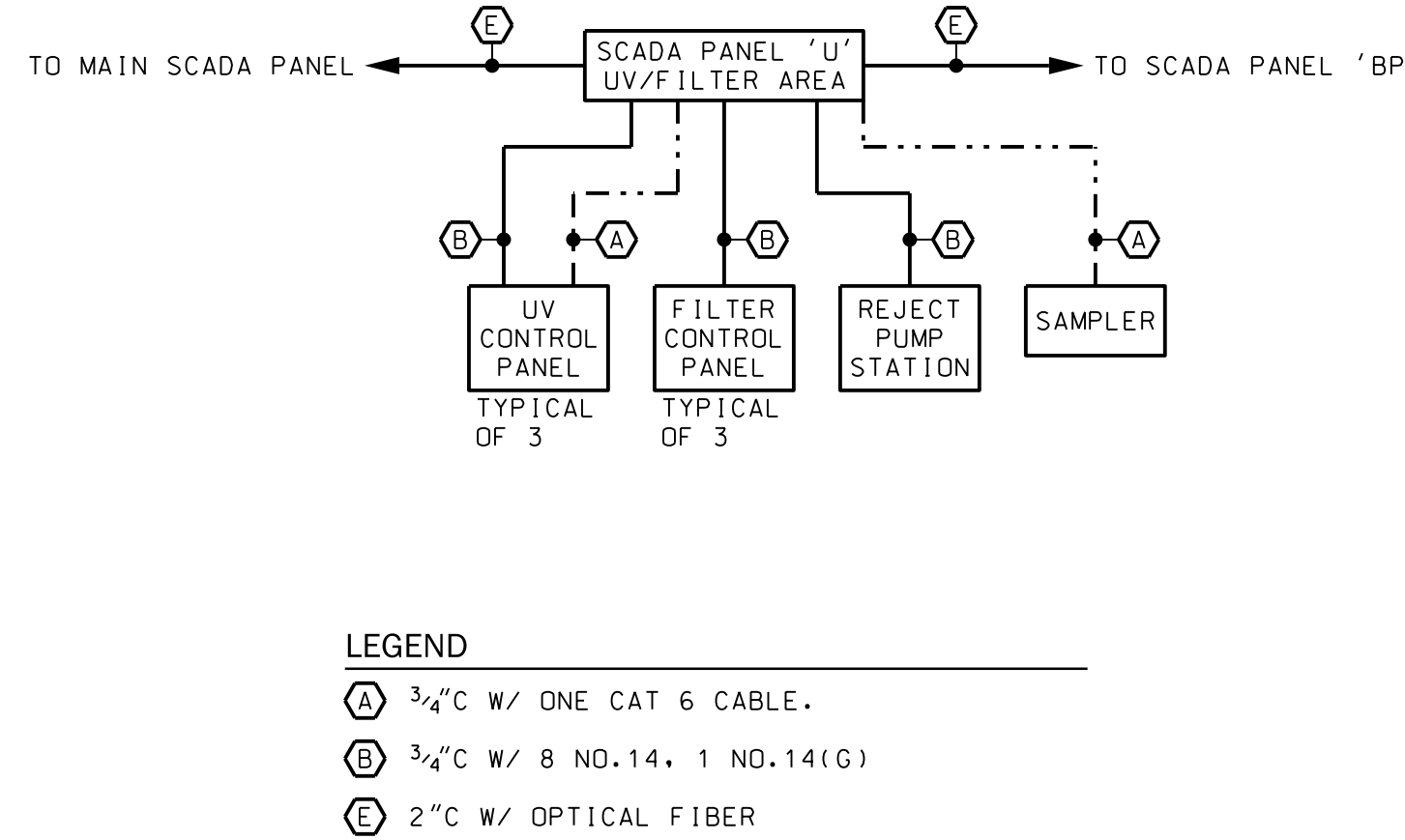
5 UV SYSTEM ONE LINE DIAGRAM
E11 SCHEMATIC ONLY



2 REJECT PUMP STATION ONE LINE DIAGRAM
E11 SCALE: 3/16= 1'-0"



4 UV SYSTEM RISER DIAGRAM
E11 SCHEMATIC ONLY



6 SCADA RISER - UV/FILTER AREA
E11 NOT TO SCALE

SCHEDULE OF PANEL 'HEU'										
VOLTAGE: 480 / 277		PHASE: 3		WIRE: 4						
BUS AMPS: 100 A		DEVICE AMPS: 100 A		MCB						
A.I.C RATING: 14,000 A		MOUNTING: SURFACE		NEMA: 4X						
LOCATION DESCRIPTION	LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD TYPE	LOAD (KVA)	LOCATION DESCRIPTION
UV-1	5.2	H	20/3	1	A	2	30/3	H	5.1	UV-3
	5.2	H	-	3	B	4	-	H	5.1	
	5.2	H	-	5	C	6	-	H	5.1	
UV-2	5.2	H	20/3	7	A	8	30/3			SPARE
	5.2	H	-	9	B	10	-			
	5.2	H	-	11	C	12	-			
SPARE			20/3	13	A	14	30/3			SURGE PROTECTION
			-	15	B	16	-			
			-	17	C	18	-			
HYDRAULIC UNIT	0.8	H	15/3	19	A	20	-/3			SPACE
	0.8	H	-	21	B	22	-			
	0.8	H	-	23	C	24	-			
SPACE			-/3	25	A	26	-/3			SPACE
			-	27	B	28	-			
			-	29	C	30	-			
			-	31	A	32	-			
			-	33	B	34	-			
			-	35	C	36	-			
			-	37	A	38	-			
			-	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	48.9	48.9			
Phase A Connected Load		16.3	KVA	Notes:		TOTAL CONNECTED LOAD		48.9	KVA	58.8	AMPS
Phase B Connected Load		16.3	KVA			TOTAL DEMAND LOAD		48.9	KVA	58.8	AMPS
Phase C Connected Load		16.3	KVA			MINIMUM SIZING AMPS		76.4	KVA	91.9	AMPS

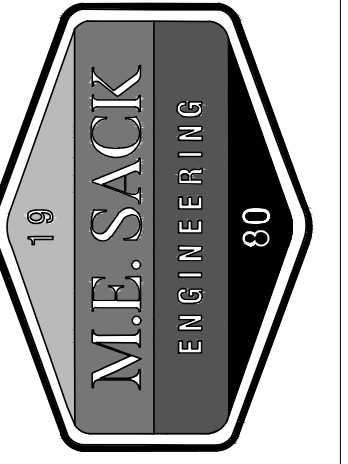
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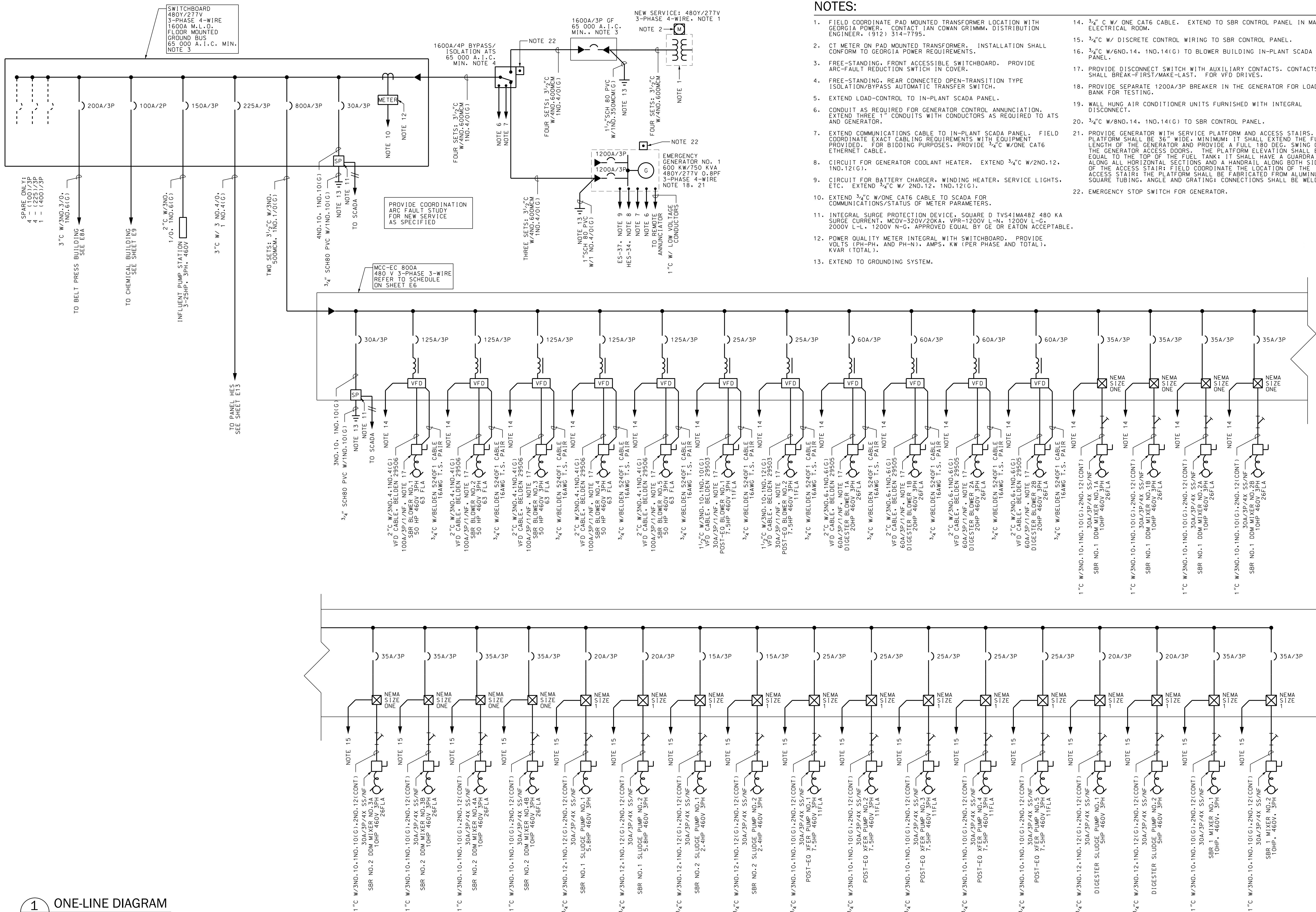
REJECT PUMP STATION AND UV ELECTRICAL PLAN

E11

FILE NO: 2020-10 PRJ
PLOT DATE: February 7, 2024

CADD PLOT
02-FEB-2024
07:53
LCAULEY

1 ONE-LINE DIAGRAM
E12 NOT TO SCALE



- NOTES:**
- FIELD COORDINATE PAD MOUNTED TRANSFORMER LOCATION WITH GEORGIA POWER. CONTACT IAN COWAN GRIMM, DISTRIBUTION ENGINEER, (912) 314-7795.
 - CT METER ON PAD MOUNTED TRANSFORMER. INSTALLATION SHALL CONFORM TO GEORGIA POWER REQUIREMENTS.
 - FREE-STANDING, FRONT ACCESSIBLE SWITCHBOARD. PROVIDE ARC-FAULT REDUCTION SWITCH IN COVER.
 - FREE-STANDING, REAR CONNECTED OPEN-TRANSITION TYPE ISOLATION/BYPASS AUTOMATIC TRANSFER SWITCH.
 - EXTEND LOAD-CONTROL TO IN-PLANT SCADA PANEL.
 - CONDUIT AS REQUIRED FOR GENERATOR CONTROL ANNUNCIATION. EXTEND THREE 1" CONDUITS WITH CONDUCTORS AS REQUIRED TO ATS AND GENERATOR.
 - EXTEND COMMUNICATIONS CABLE TO IN-PLANT SCADA PANEL. FIELD COORDINATE EXACT CABLING REQUIREMENTS WITH EQUIPMENT PROVIDER. FOR BIDDING PURPOSES, PROVIDE 3/4" C W/ONE CAT6 ETHERNET CABLE.
 - CIRCUIT FOR GENERATOR COOLANT HEATER. EXTEND 3/4" C W/2NO.12, 1NO.12(G).
 - CIRCUIT FOR BATTERY CHARGER, WINDING HEATER, SERVICE LIGHTS, ETC. EXTEND 3/4" C W/ 2NO.12, 1NO.12(G).
 - EXTEND 3/4" C W/ONE CAT6 CABLE TO SCADA FOR COMMUNICATIONS/STATUS OF METER PARAMETERS.
 - INTEGRAL SURGE PROTECTION DEVICE, SQUARE D TVS41M48Z 480 KA SURGE CURRENT, MCOV=320V/20KA, VPR=1200V L-N, 1200V L-G, 2000V L-L, 1200V N-G, APPROVED EQUAL BY GE OR EATON ACCEPTABLE.
 - POWER QUALITY METER INTEGRAL WITH SWITCHBOARD. PROVIDE VOLTS (PH-PH, AND PH-N), AMPS, KW (PER PHASE AND TOTAL), KVAR (TOTAL).
 - EXTEND TO GROUNDING SYSTEM.
 - 3/4" C W/ ONE CAT6 CABLE. EXTEND TO SBR CONTROL PANEL IN MAIN ELECTRICAL ROOM.
 - 3/4" C W/ DISCRETE CONTROL WIRING TO SBR CONTROL PANEL.
 - PROVIDE DISCONNECT SWITCH WITH AUXILIARY CONTACTS. CONTACTS SHALL BREAK-FIRST/MAKE-LAST. FOR VFD DRIVES.
 - PROVIDE SEPARATE 1200A/3P BREAKER IN THE GENERATOR FOR LOAD BANK FOR TESTING.
 - WALL HUNG AIR CONDITIONER UNITS FURNISHED WITH INTEGRAL DISCONNECT.
 - PROVIDE GENERATOR WITH SERVICE PLATFORM AND ACCESS STAIRS. PLATFORM SHALL BE 36" WIDE, MINIMUM; IT SHALL EXTEND THE FULL LENGTH OF THE GENERATOR AND PROVIDE A FULL 180 DEG. SWING OF THE ACCESS STAIRS. THE PLATFORM ELEVATION SHALL BE EQUAL TO THE TOP OF THE FUEL TANK; IT SHALL HAVE A GUARDRAIL ALONG ALL HORIZONTAL SECTIONS AND A HANDRAIL ALONG BOTH SIDES OF THE ACCESS STAIRS. FIELD COORDINATE THE LOCATION OF THE ACCESS STAIRS; THE PLATFORM SHALL BE FABRICATED FROM ALUMINUM SQUARE TUBING, ANGLE AND GRATING; CONNECTIONS SHALL BE WELDED.
 - EMERGENCY STOP SWITCH FOR GENERATOR.

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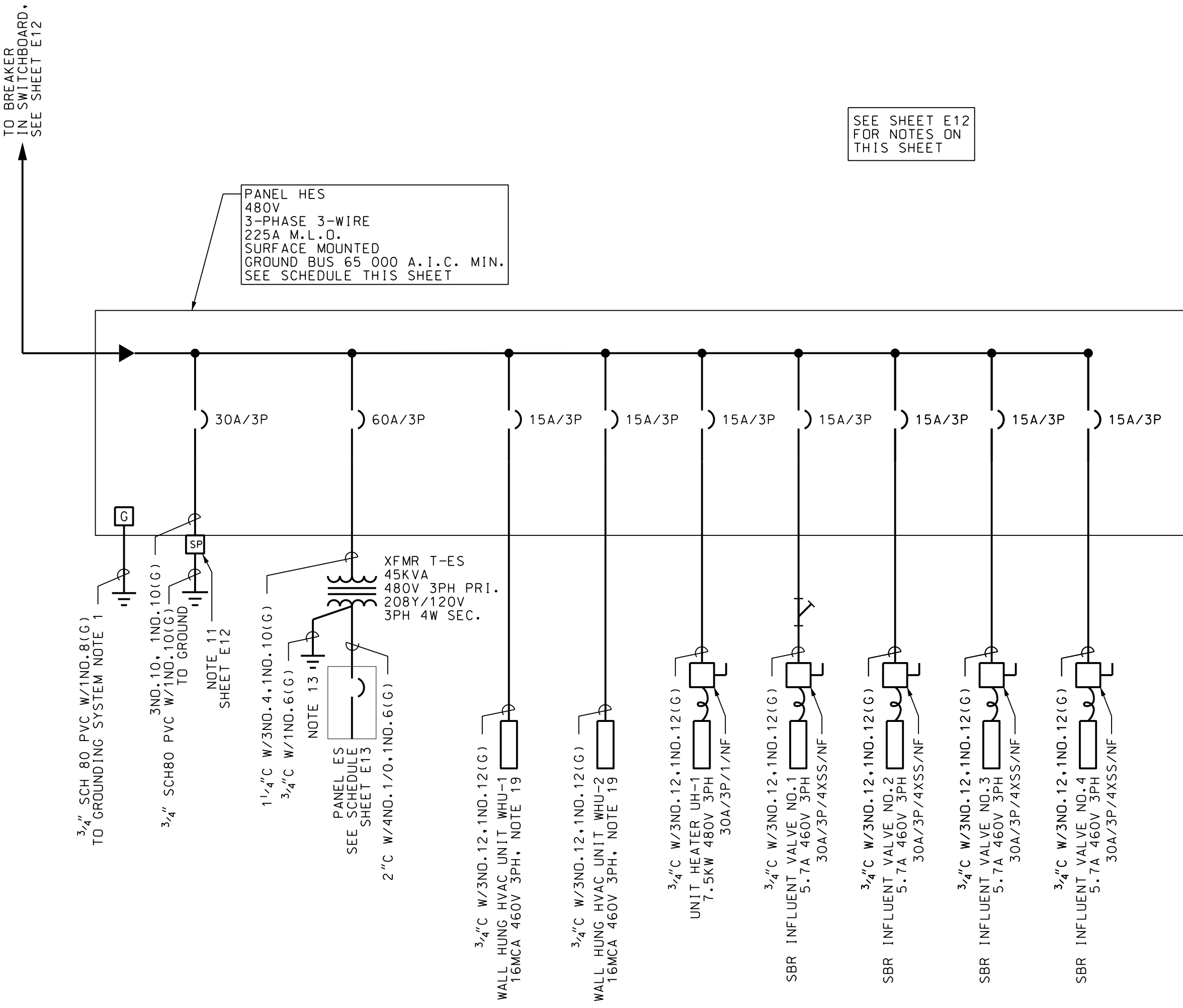
WWTP Expansion

ONE-LINE DIAGRAM

E12

FILE NO: 2020-10 PRJ
PLOT DATE: February 7, 2024

1 ONE-LINE DIAGRAM
E13 NOT TO SCALE



SCHEDULE OF PANEL 'HES'										
VOLTAGE: 480 / 277			PHASE: 3				WIRE: 3			
BUS AMPS: 225 A			DEVICE AMPS: 225 A				MLO			
A.I.C. RATING: 65,000 A			MOUNTING: SURFACE							
LOCATION DESCRIPTION	LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD TYPE	LOAD (KVA)	LOCATION DESCRIPTION
SBR INFLUENT VALVE NO.1	0.3	G	15A/3P	1	A	2	15A/3P	G	0.3	SBR INFLUENT VALVE NO.3
-	0.3	G	-	3	B	4	-	G	0.3	-
-	0.3	G	-	5	C	6	-	G	0.3	-
SBR INFLUENT VALVE NO.2	0.3	G	15A/3P	7	A	8	15A/3P	G	0.3	SBR INFLUENT VALVE NO.4
-	0.3	G	-	9	B	10	-	G	0.3	-
-	0.3	G	-	11	C	12	-	G	0.3	-
UNIT HEATER UH-1	2.5	E	15A/3P	13	A	14	20A/3P	-	-	SPARE
-	2.5	E	-	15	B	16	-	-	-	-
-	2.5	E	-	17	C	18	-	-	-	-
WHU-1	1.9	D	20A/3P	19	A	20	15A/3P	-	-	SPARE
-	1.9	D	-	21	B	22	-	-	-	-
-	1.9	D	-	23	C	24	-	-	-	-
WHU-2	1.9	D	20A/3P	25	A	26	15A/3P	-	-	SPARE
-	1.9	D	-	27	B	28	-	-	-	-
-	1.9	D	-	29	C	30	-	-	-	-
T-ES	10.0	H	60A/3P	31	A	32	/1P	-	-	1PSO
-	10.0	H	-	33	B	34	20A/2P	H	1.3	GENERATOR HEATER
-	10.0	H	-	35	C	36	-	H	1.3	-
SURGE PROTECTION	-	-	30/3P	37	A	38	/3P	-	-	3PSO
-	-	-	-	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	7.5	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	3.6	3.6	NEC Article 440.7
D	Air-Conditioning	11.4	11.4	NEC Article 220.60	H	Other Loads	32.5	32.5	
Phase A Connected Load		17.5 KVA	Notes:		TOTAL CONNECTED LOAD		55.0 KVA	66.2 AMPS	
Phase B Connected Load		18.8 KVA	3 Phase, 3 Wire,		TOTAL DEMAND LOAD		47.5 KVA	57.1 AMPS	
Phase C Connected Load		18.8 KVA	Delta Configuration		MINIMUM SIZING AMPS		74.2 KVA	89.3 AMPS	

SCHEDULE OF PANEL 'ES'										
VOLTAGE: 208 / 120			PHASE: 3				WIRE: 4			
BUS AMPS: 225 A			DEVICE AMPS: 150 A				MCB			
A.I.C. RATING: 10,000 A			MOUNTING: SURFACE							
LOCATION DESCRIPTION	LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD TYPE	LOAD (KVA)	LOCATION DESCRIPTION
SCADA PANEL	1.5	H	20A/1P	1	A	2	20A/1P	B	0.8	RECEPTACLES
DECANT WEIR NO.1	0.5	H	20A/1P	3	B	4	20A/1P	B	0.8	RECEPTACLES
DECANT WEIR NO.2	0.5	H	20A/1P	5	C	6	20A/1P	B	0.8	RECEPTACLES
DECANT WEIR NO.3	0.5	H	20A/1P	7	A	8	20A/1P	B	0.8	RECEPTACLES
DECANT WEIR NO.4	0.5	H	20A/1P	9	B	10	20A/1P	B	0.9	RECEPTACLES
DECANT VALVE NO.1	0.5	H	20A/1P	11	C	12	20A/1P	B	0.4	RECEPTACLES
DECANT VALVE NO.2	0.5	H	20A/1P	13	A	14	20A/1P	-	-	SPARE
DECANT VALVE NO.3	0.5	H	20A/1P	15	B	16	20A/1P	-	-	SPARE
DECANT VALVE NO.4	0.5	H	20A/1P	17	C	18	20A/1P	-	-	SPARE
SCADA PANEL 'B'	1.5	H	20A/1P	19	A	20	20A/1P	G	1.0	ROLL UP FLOOR
SPARE	-	-	20A/1P	21	B	22	20A/1P	B	1.6	RECEPTACLES
SPARE	-	-	20A/1P	23	C	24	20A/1P	B	0.8	RECEPTACLES
LIGHTING - BLOWER	0.9	A	20A/1P	25	A	26	20A/1P	B	0.9	RECEPTACLES
LIGHTING - EXTERIOR	0.8	A	20A/1P	27	B	28	20A/1P	-	-	SPARE
LIGHTING - ELECTRICAL	0.5	A	20A/1P	29	C	30	20A/1P	-	-	SPARE
SPARE	-	-	20A/1P	31	A	32	20A/1P	-	-	SPARE
SPARE	-	-	20A/1P	33	B	34	20A/1P	-	-	SPARE
SPARE	-	-	20A/1P	35	C	36	20A/1P	-	-	SPARE
GENERATOR	1.5	H	20A/1P	37	A	38	20A/1P	-	-	SPARE
AQUA-AEROBIC PANEL	5.0	H	50A/2P	39	B	40	20A/1P	-	-	SPARE
-	5.0	H	-	41	C	42	20A/1P	-	-	SPARE

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	2.2	2.8	NEC Article 215.3	E	Heating	0.0	0.0	NEC Article 220.60
B	Receptacles	7.8	7.8	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	1.0	1.0	NEC Article 440.7
D	Air-Conditioning	0.0	0.0	NEC Article 220.60	H	Other Loads	18.5	18.5	
Phase A Connected Load		9.9 KVA	Notes:		TOTAL CONNECTED LOAD		29.5 KVA	81.9 AMPS	
Phase B Connected Load		10.6 KVA	3 Phase, 3 Wire,		TOTAL DEMAND LOAD		30.1 KVA	83.4 AMPS	
Phase C Connected Load		9.0 KVA	Delta Configuration		MINIMUM SIZING AMPS		47.0 KVA	130.3 AMPS	

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WWTP Expansion

ONE-LINE DIAGRAM

E13

FILE NO: 2020-10 PRJ
PLOT DATE: February 7, 2024

FOUNDATION NOTES

- DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION BY A REGISTERED GEOTECHNICAL ENGINEER 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 RECOMMENDATIONS. GRANULAR BASE BELOW FOOTING SHALL BE A MINIMUM OF 12" OF #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 4000 PSI FOR WALLS AND SLABS IN OTHER STRUCTURES.
- STRUCTURAL MEMBERS OF REINFORCED CONCRETE IN LIQUID CONTAINING VESSELS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 350-20. ALL OTHER STRUCTURAL SLABS AND WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-14.
- PROVIDE 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 318-14. 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.
- APPLY SHERWIN WILLIAMS DURA-PLATE 6100 TO ALL LIQUID CONTAINING STRUCTURES. PREPARE CONCRETE SURFACES PER MANUFACTURER'S RECOMMENDATIONS.

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 = 1/2" BEAMS, PIERS, COLUMNS, WALLS, FOOTINGS, & BASE SLABS = 2" SLABS & JOISTS W/ #6 BARS & LARGER = 2"
 - FORMED SURFACES NOT EXPOSED TO EARTH, LIQUIDS, OR WEATHER: SLABS & JOISTS = 3/4" BEAMS, PIERS, & COLUMNS = 1/2" WALLS = 3/4" FOOTINGS & BASE SLABS = 2"

CONC REINF LAP LENGTH
4500 PSI (ACI 350-20)

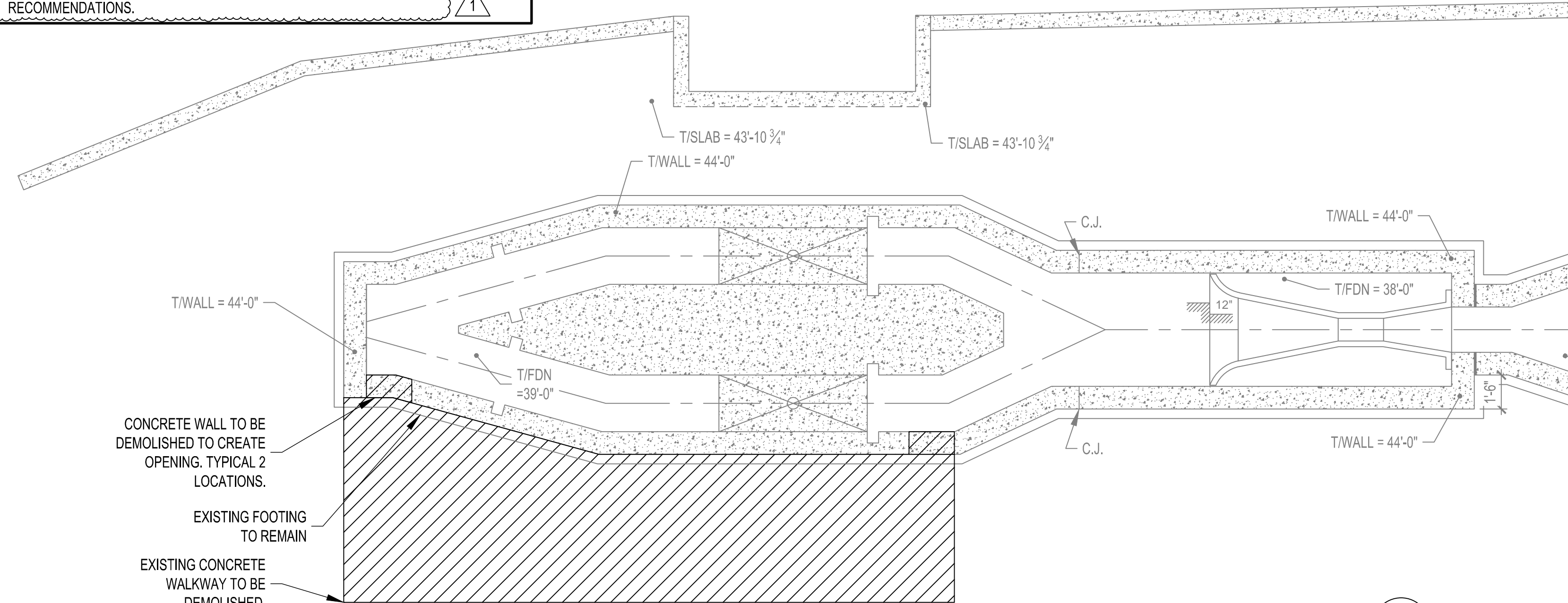
BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	18"
#4	24"
#5	30"
#6	35"
#7	51"
#8	59"
#9	66"
#10	73"

CONC REINF LAP LENGTH
4000 PSI (ACI 318-14)

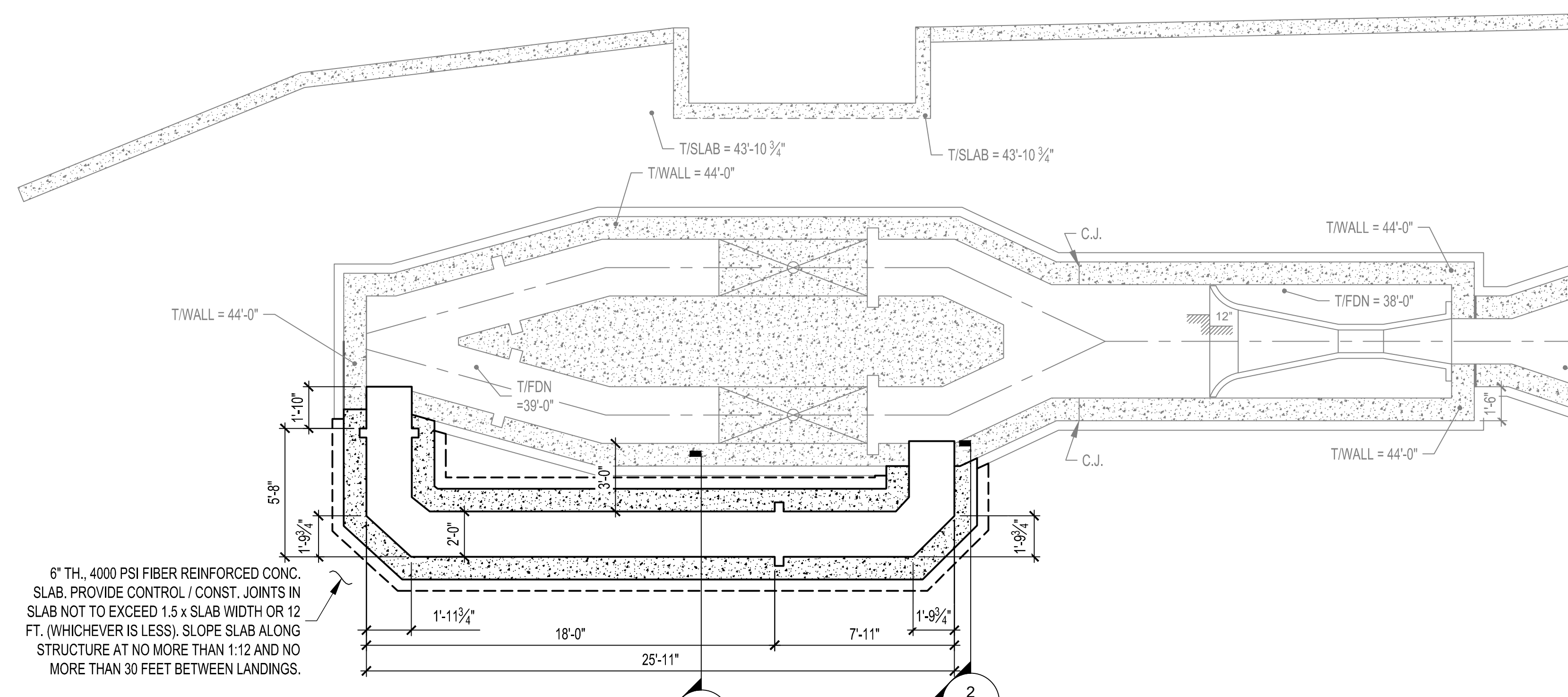
BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	19"
#4	25"
#5	31"
#6	37"
#7	54"
#8	62"
#9	70"

STRUCTURE NOTES

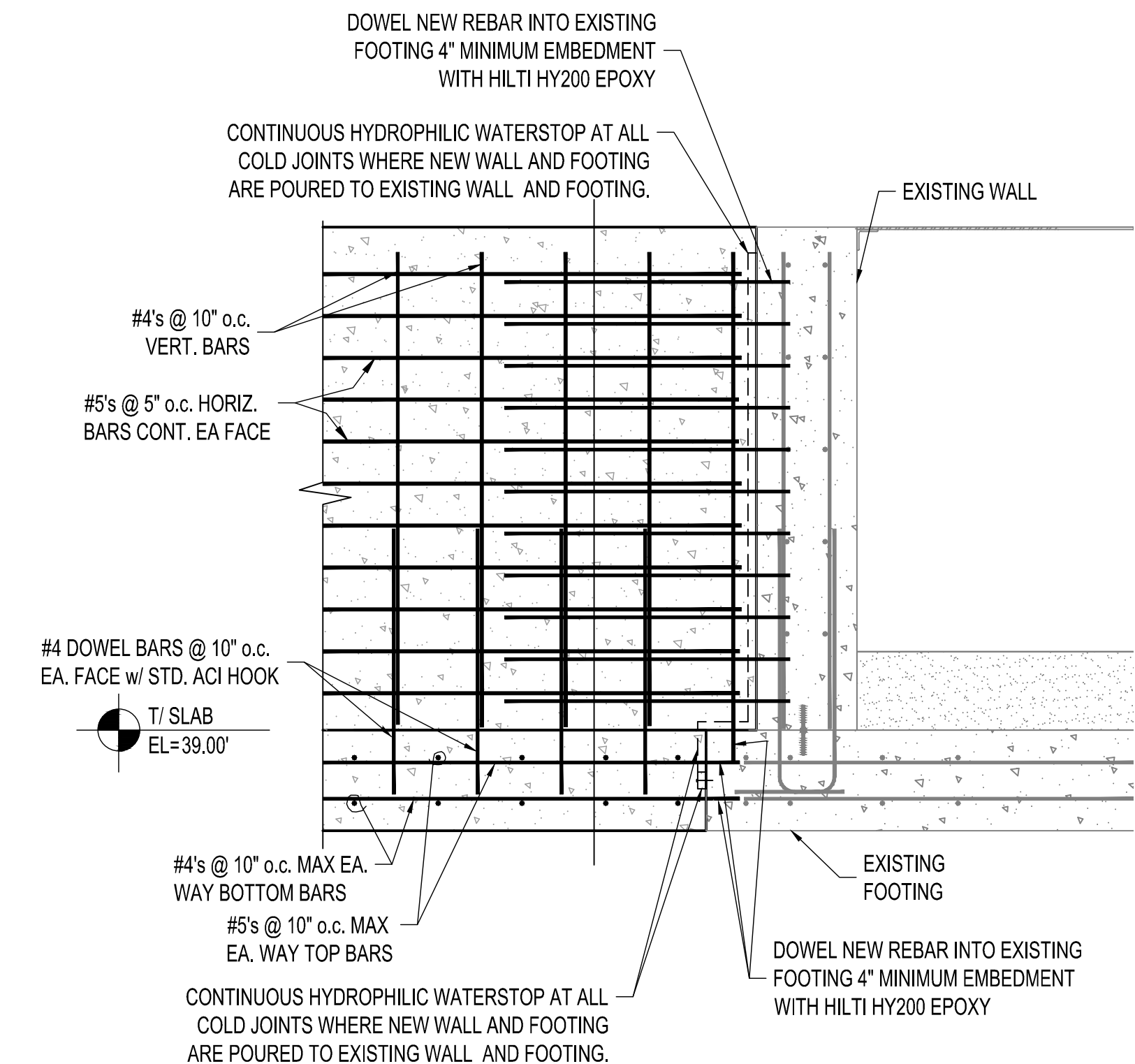
- COORD ALL STRUCTURE & PIPING ELEVATIONS & DIMENSIONS W/ CIVIL DRAWINGS.
- ALL CONDUIT SHALL BE MOUNTED EXTERNALLY ON STRUCTURE USING HANGERS. FOR ANY CONDUIT PROPOSED TO BE PLACED IN THE CONCRETE POUR, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING PLACEMENT OF ANY CONDUIT IN CONCRETE STRUCTURE.
- 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 = III
SEISMIC IMPORTANCE FACTOR (I_e) = 1.25
S_s = 0.3225 S₁ = 0.1164
SITE CLASS = D
S_{DS} = 0.332 S_{D1} = 0.184
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-16 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) = 0.2072
SEISMIC DESIGN CATEGORY = C
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE



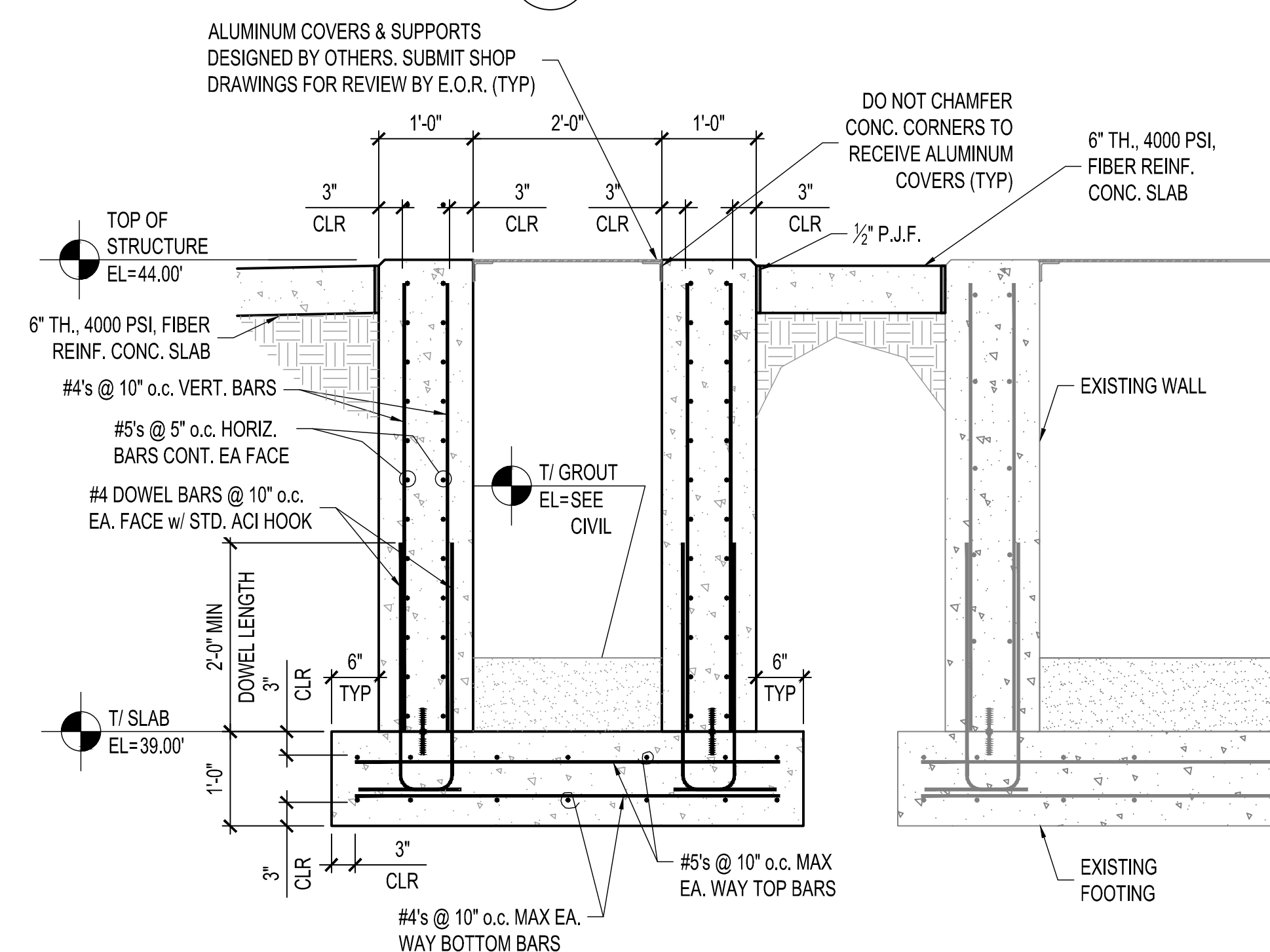
0 HEADWORKS DEMO PLAN
1/4"=1'-0"



1 HEADWORKS PLAN
1/4"=1'-0"

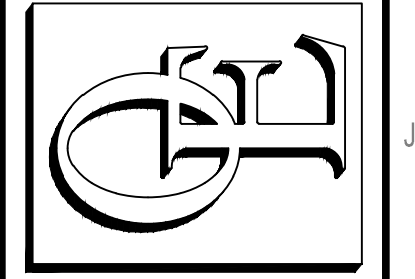


3 HEADWORKS SECTION
3/4"=1'-0"



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

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e-mail: info@oconeengineering.com



REGISTERED PROFESSIONAL ENGINEER
RALPH H. BOSWELL
10/17/2024

WASTEWATER TREATMENT PLANT EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY GA

MARK	DATE	DESCRIPTION
1	10/07/2024	EPI COMMENTS
2	02/07/2024	EPI SUBMITTAL

DESIGNED: 02/21/21
DRAWN: 02/21/21
CHECKED: 02/21/21
APPROVED: 02/21/21
DE PROJECT NO.: 0222121
FILE NAME: 0222121-1S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 2-07-2024
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HEADWORKS PLANS, SPECIFICATIONS, AND SECTIONS

FOUNDATION NOTES

- DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION BY A REGISTERED GEOTECHNICAL ENGINEER 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 RECOMMENDATIONS. GRANULAR BASE BELOW FOOTING SHALL BE A MINIMUM OF 12" OF #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/ 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.
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OCCUPANCY CATEGORY = III
SEISMIC IMPORTANCE FACTOR (I_e) = 1.25
 $S_D = 0.3225$ $S_1 = 0.1164$
SITE CLASS = D
 $S_{DS} = 0.332$ $S_{D1} = 0.184$
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-16 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) = 0.2072
SEISMIC DESIGN CATEGORY = C
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

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 4000 PSI FOR WALLS AND SLABS IN OTHER STRUCTURES.
- STRUCTURAL MEMBERS OF REINFORCED CONCRETE IN LIQUID CONTAINING VESSELS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 350-20. ALL OTHER STRUCTURAL SLABS AND WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-14.
- PROVIDE $\frac{1}{4}$ " 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 318-14. 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.
- APPLY SHERWIN WILLIAMS DURA-PLATE 6100 TO ALL LIQUID CONTAINING STRUCTURES. PREPARE CONCRETE SURFACES PER MANUFACTURER'S RECOMMENDATIONS.

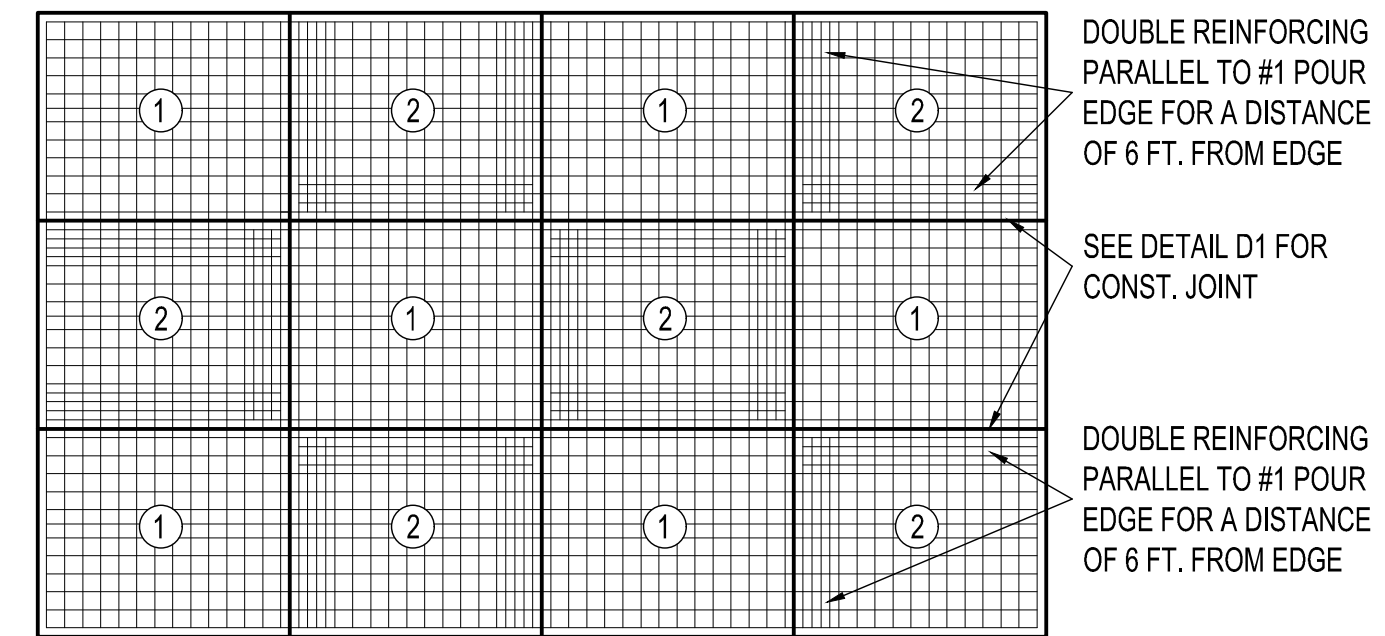
CONC REINF LAP LENGTH

4500 PSI (ACI 350-20)

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

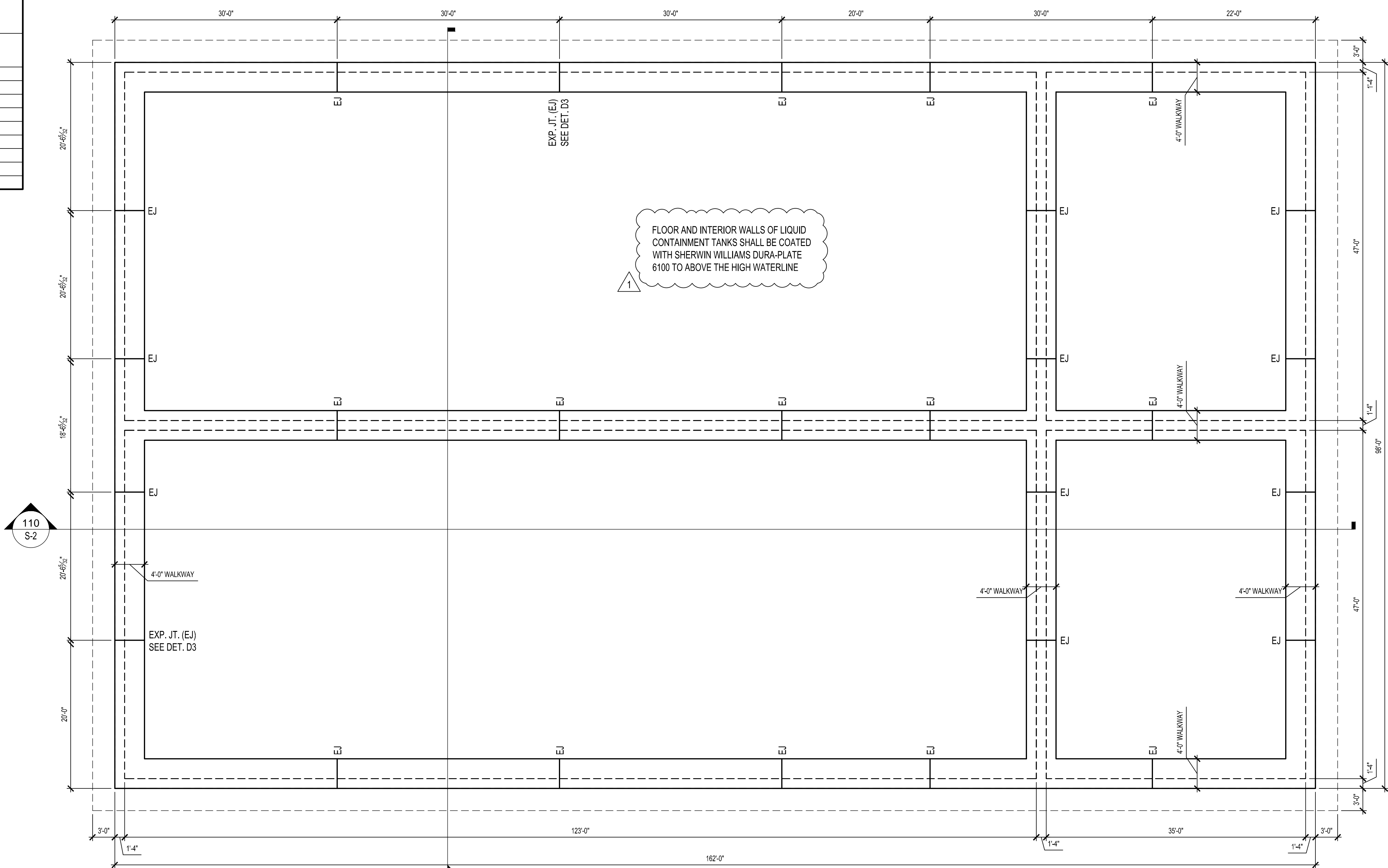
REINFORCING STEEL NOTES

- 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:
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.
- 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 = $\frac{3}{4}$ "
FOOTINGS & BASE SLABS = 2"



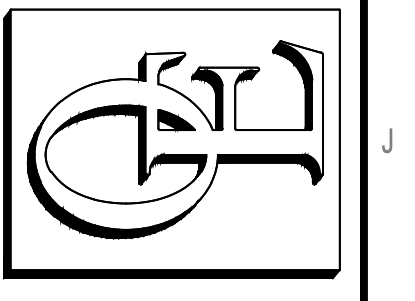
WHEN POURING BASE SLAB IN MULTIPLE POURS, POUR IN A CHECKERBOARD PATTERN AS SHOWN ABOVE. FOR THE #2 (INFILL) POURS, DOUBLE THE REINFORCING PARALLEL TO THE ADJACENT SLAB FOR A DISTANCE OF 6 FEET AWAY FROM THE #1 POUR SLAB EDGE

2 BASE SLAB POUR DETAIL
N.T.S.



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

OCONEE ENGINEERING L.L.C.
ATTORNEYS AT LAW
3000 W. WALKER BLVD
GREENSBORO, NC 27409
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e-mail: admin@oconeeengineering.com



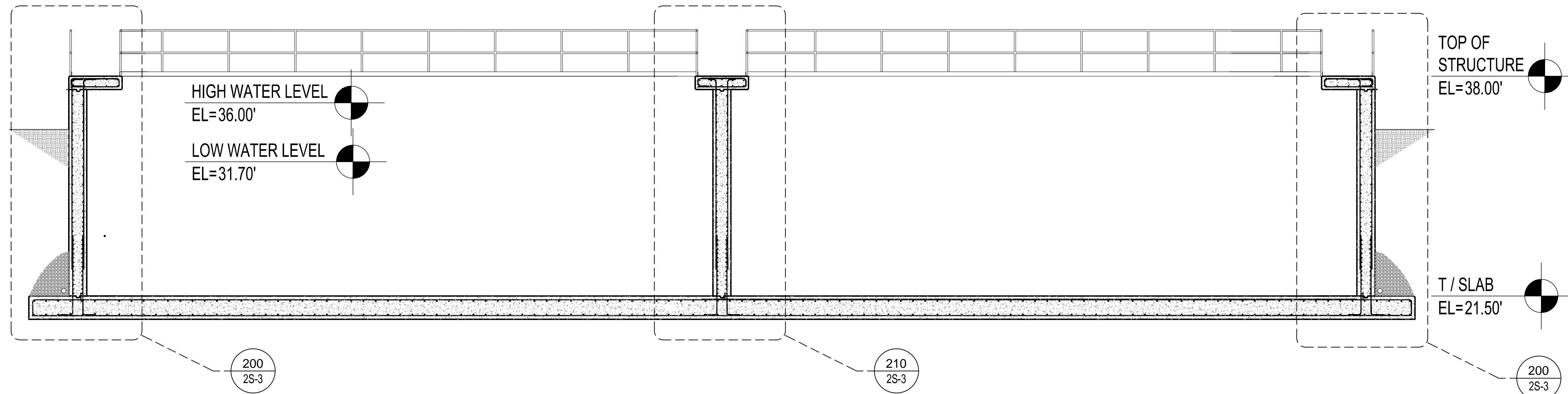
RALPH H. BOSWELL
REGISTERED PROFESSIONAL ENGINEER
No. 27855
10/7/2024

WASTEWATER TREATMENT PLANT EXPANSION FOR THE CITY OF RINCON EFFINGHAM COUNTY, GEORGIA

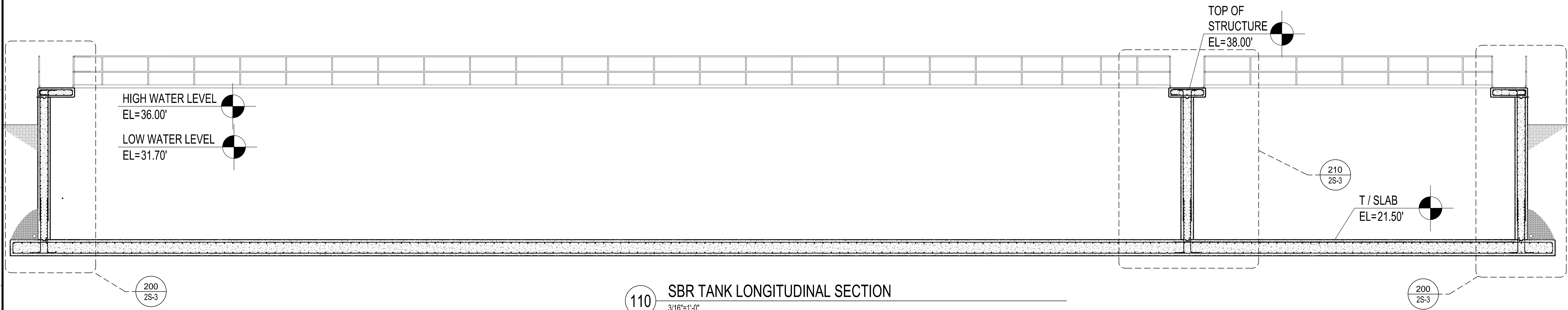
MARK	DATE	BY	DESCRIPTION
1	10/17/2024	EPD/SUBMITTAL	
	2/7/2024		

DESIGNED: 02/21/21
DRAWN: 02/21/21-S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 2-7-2024
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SBR TANK PLAN & NOTES

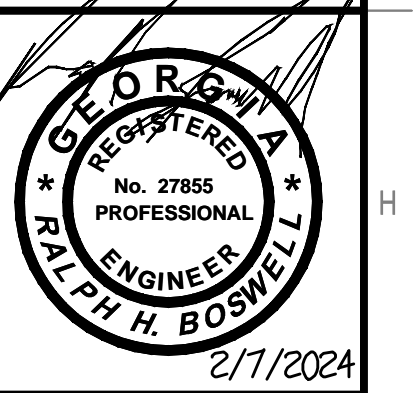
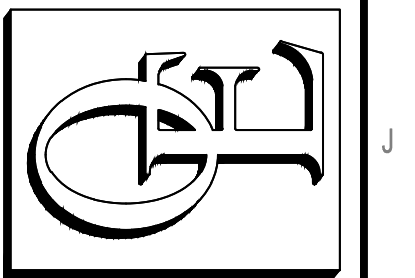


100 SBR TANK CROSS SECTION
3/16"=1'-0"



110 SBR TANK LONGITUDINAL SECTION
3/16"=1'-0"

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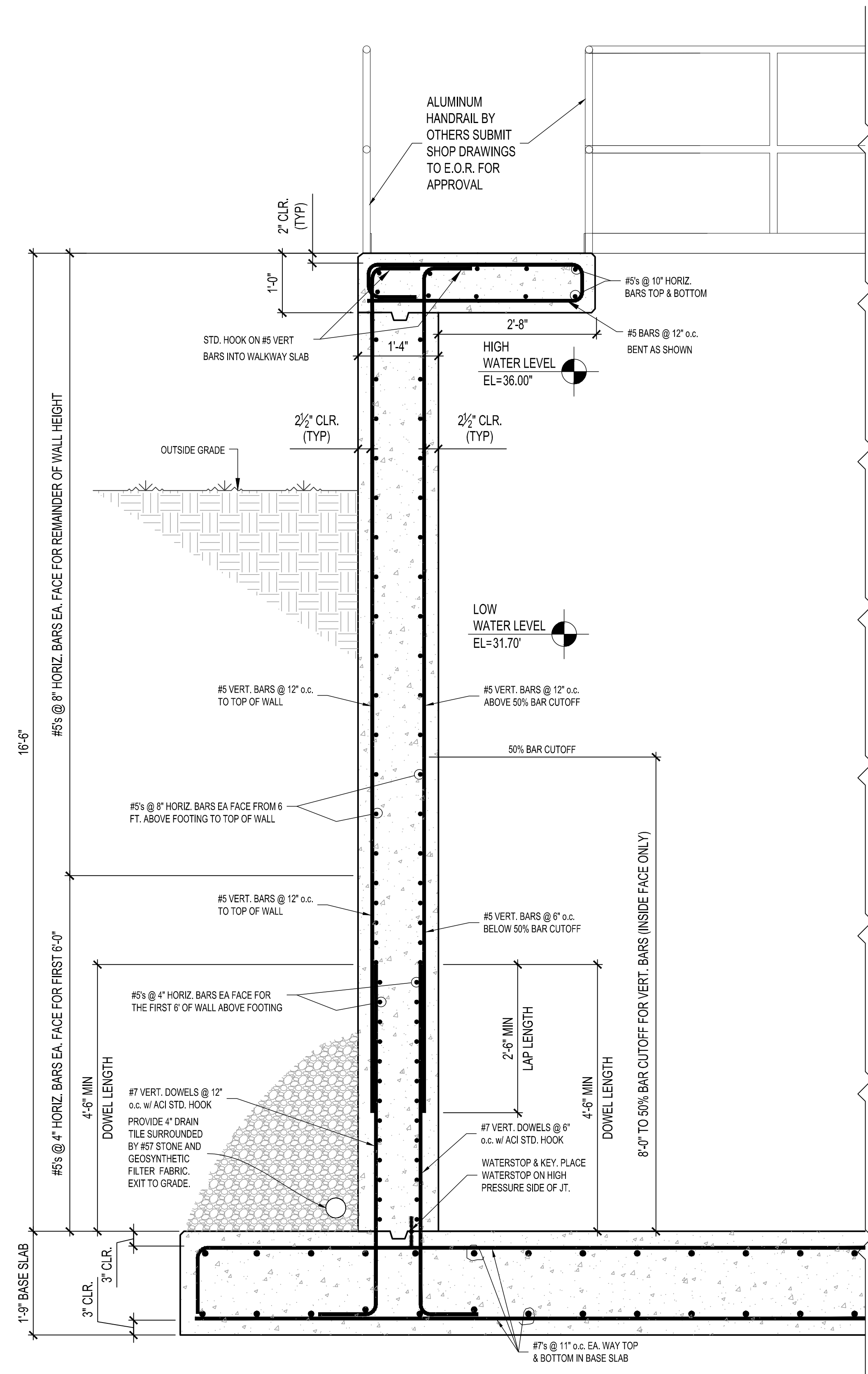
WASTEWATER TREATMENT PLANT
EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
	2/7/2024		PRO SUBMITTAL

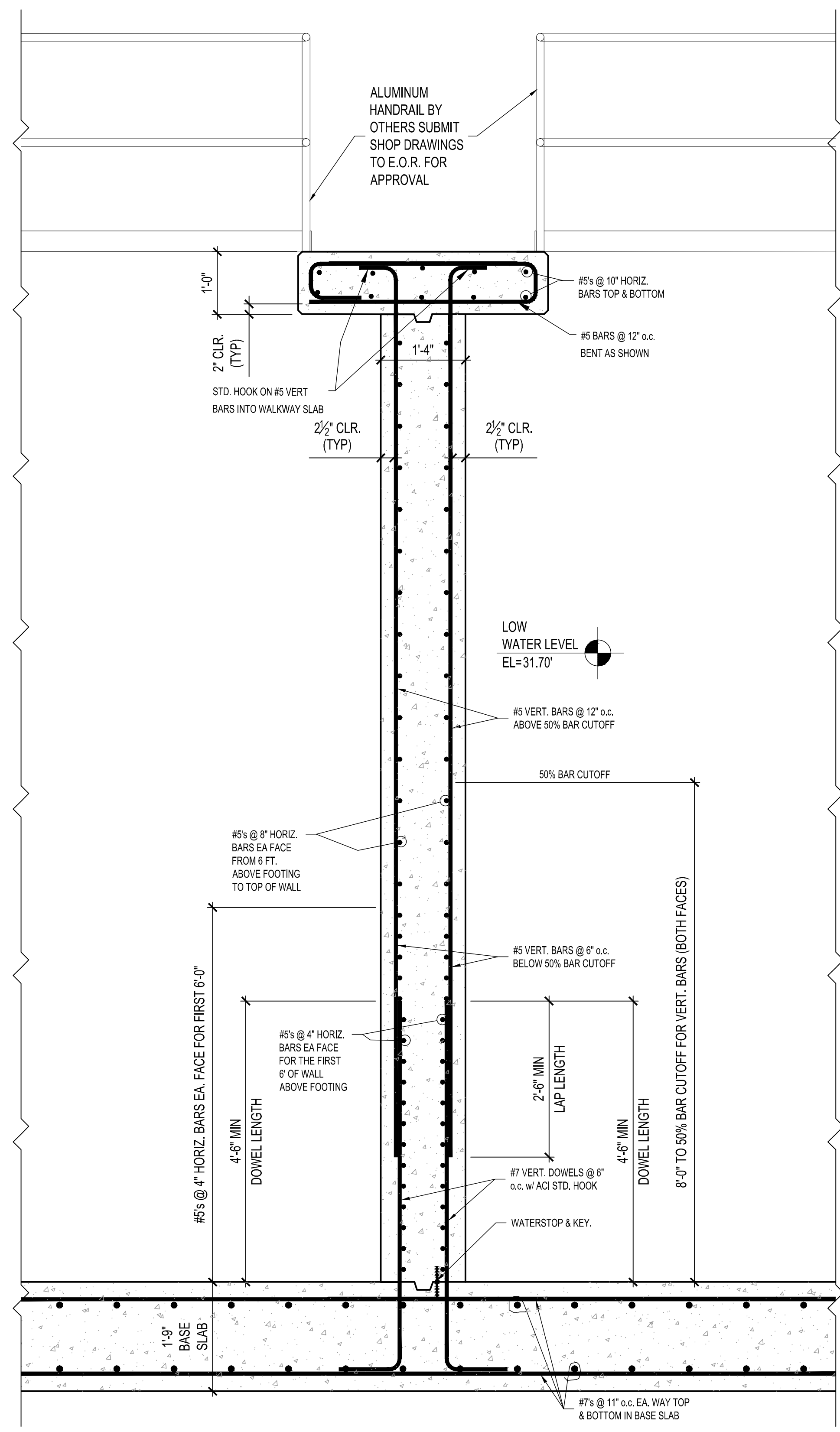
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FILE NAME: CE22171-2S-CORE
DRAWN: CE22171-2S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 2-7-2024
CHECKED:
APPROVED:
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OCONEE ENGINEERING, L.L.C.

SBR
SECTIONS

PLOTTED BY: RAJAN BOSEWELL DATE: Monday, October 7, 2024 10:22:41 AM DRAWING FILE: C:\Users\rajbos\OneDrive\Documents\22171\10 SBR\22171-2S-CORE.dwg LAST MODIFIED: Monday, January 28, 2024 9:03:00 PM



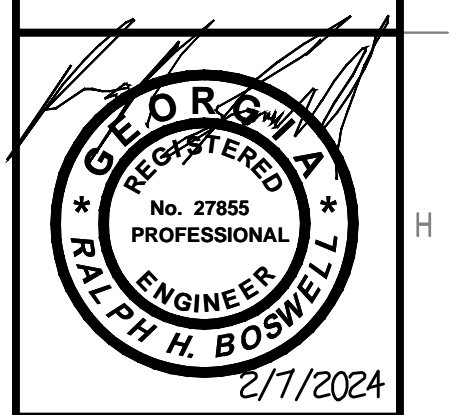
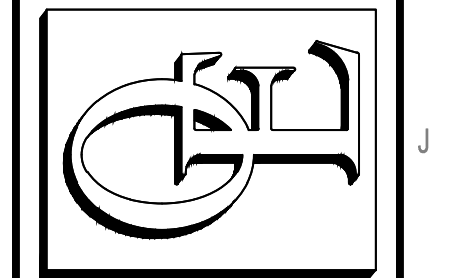
200 SBR's TANK EDGE WALL SECTION
3/4"=1'-0"



210 SBR's TANK INTERIOR WALL SECTION
3/4"=1'-0"

PLOTTED BY: RALPH BOSWELL DATE: Monday, October 7, 2024 10:22:41 AM DRAWING FILE: C:\work\2024\222171\222171.dwg USER: RALPH BOSWELL PLOT DATE: 10/7/2024 10:22:41 AM

OCONEE ENGINEERING L.L.C.
 STRUCTURAL ENGINEERING
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 LAKE OCONEE
 P.O. Box 116
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 e-mail: admin@oconeeengineering.com

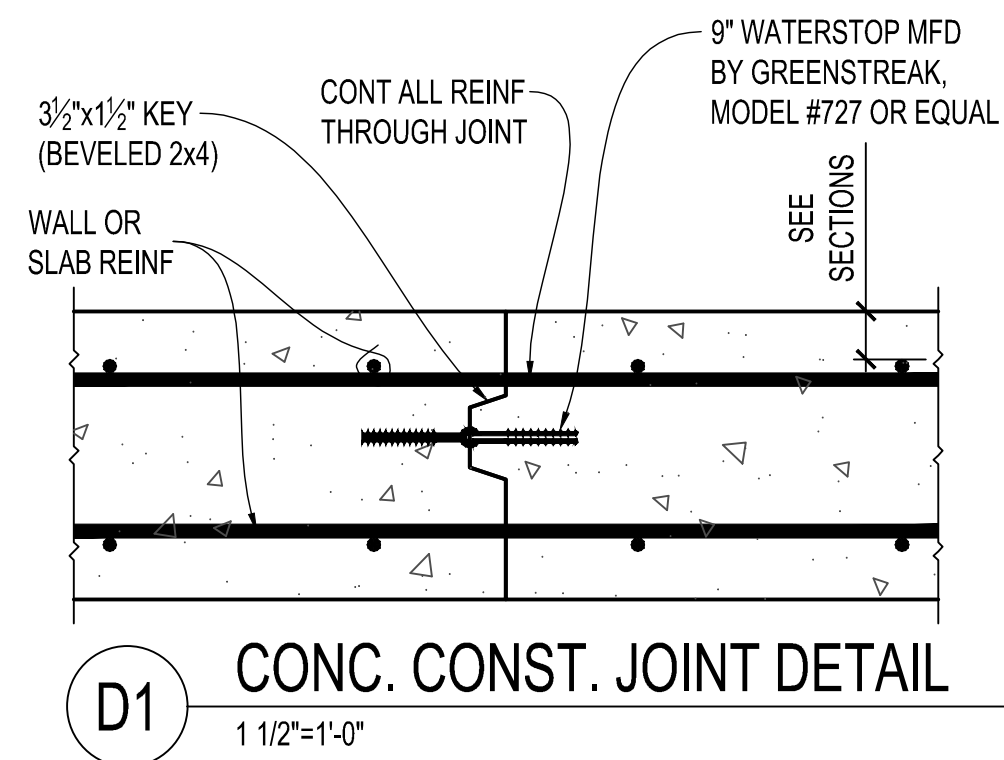


WASTEWATER TREATMENT PLANT
 EXPANSION
 FOR:
 THE CITY OF RINCON
 EFFINGHAM COUNTY, GEORGIA

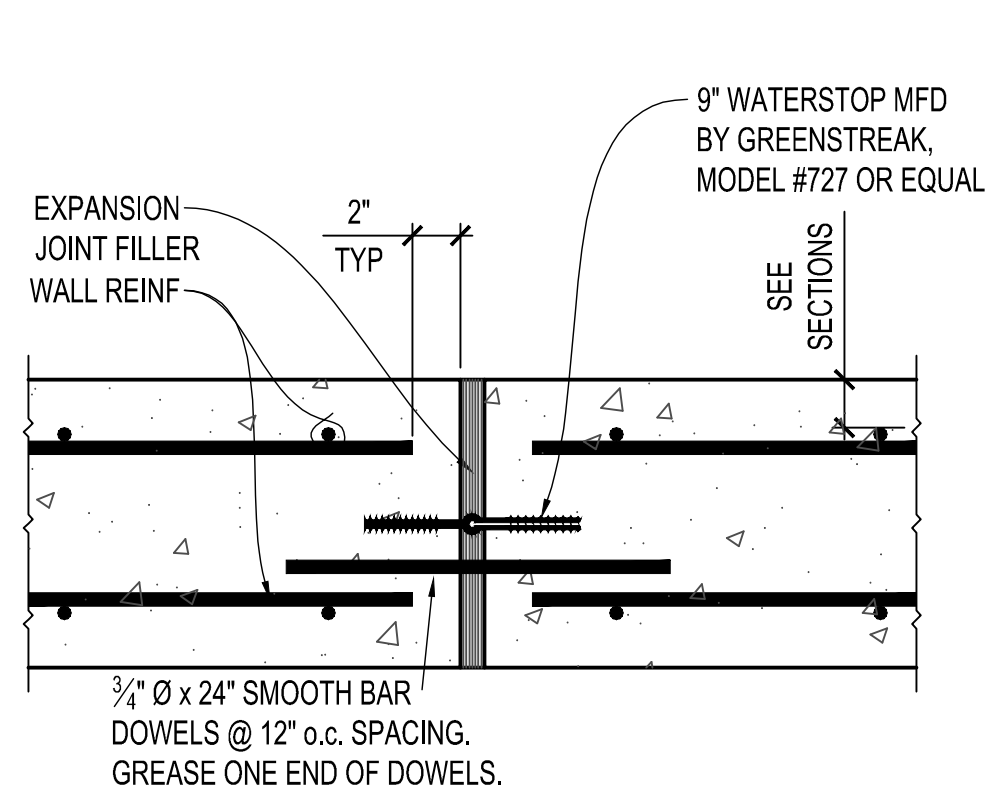
MARK	DATE	BY	DESCRIPTION
	2/7/2024	EPB	SUBMITAL

PROJECT NO.: 022217
 FILE NAME: 022217-2S-CORE
 ORIGINAL DRAWING SIZE: 36"x24"
 DATE: 2-7-2024
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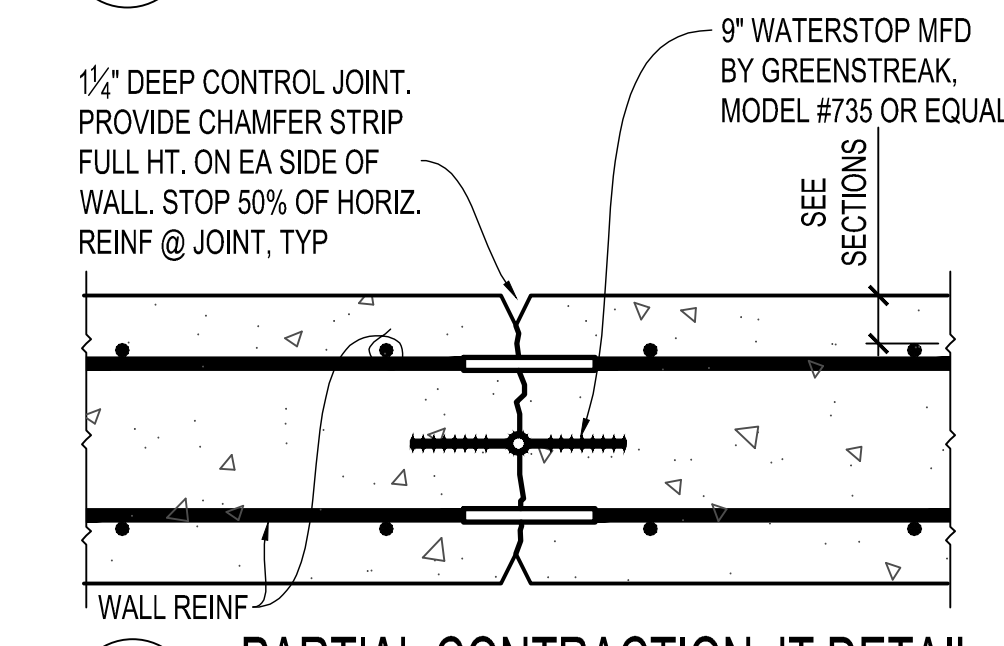
SBR SECTIONS



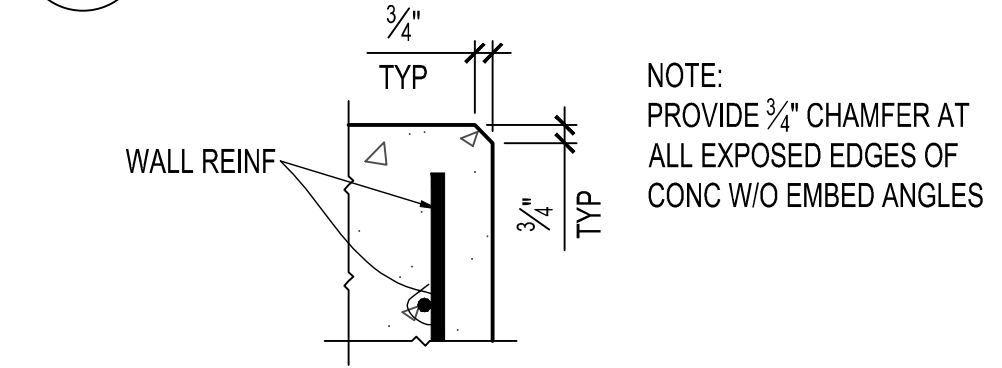
D1 CONC. CONST. JOINT DETAIL
1 1/2"=1'-0"



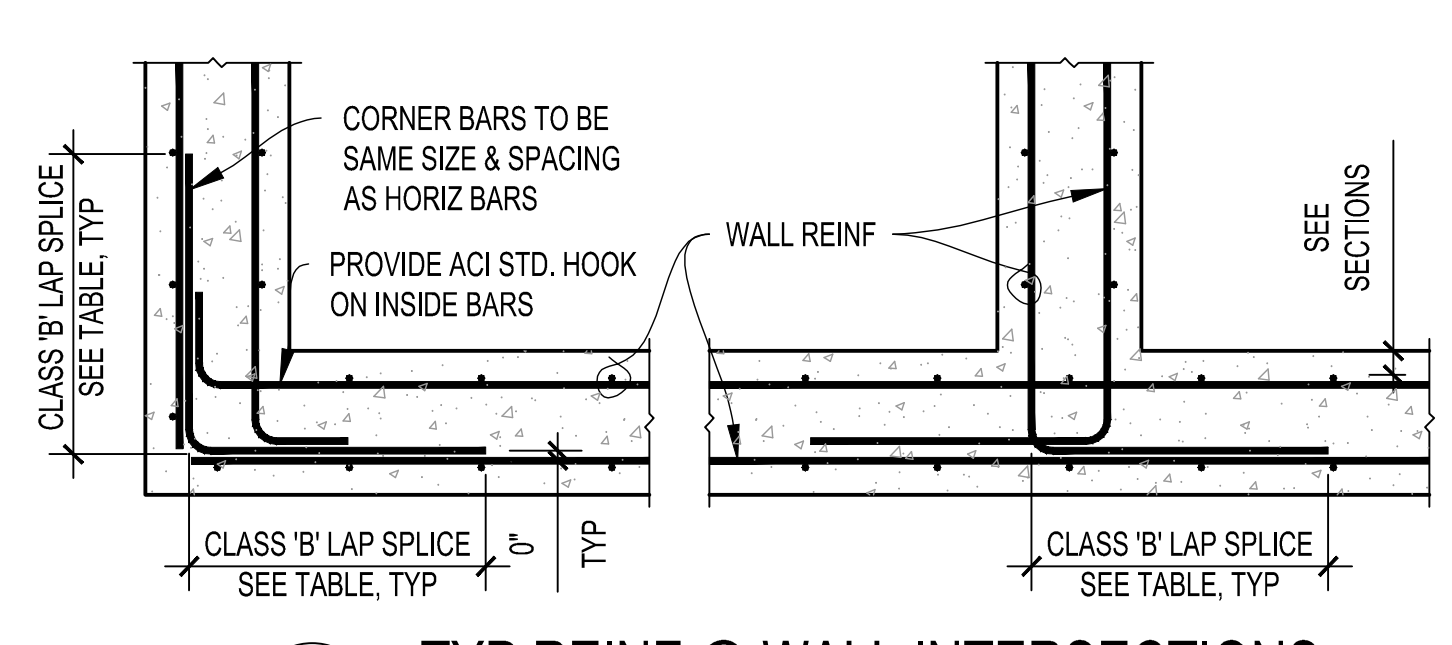
D3 CONC. EXP JOINT DETAIL
1 1/2"=1'-0"



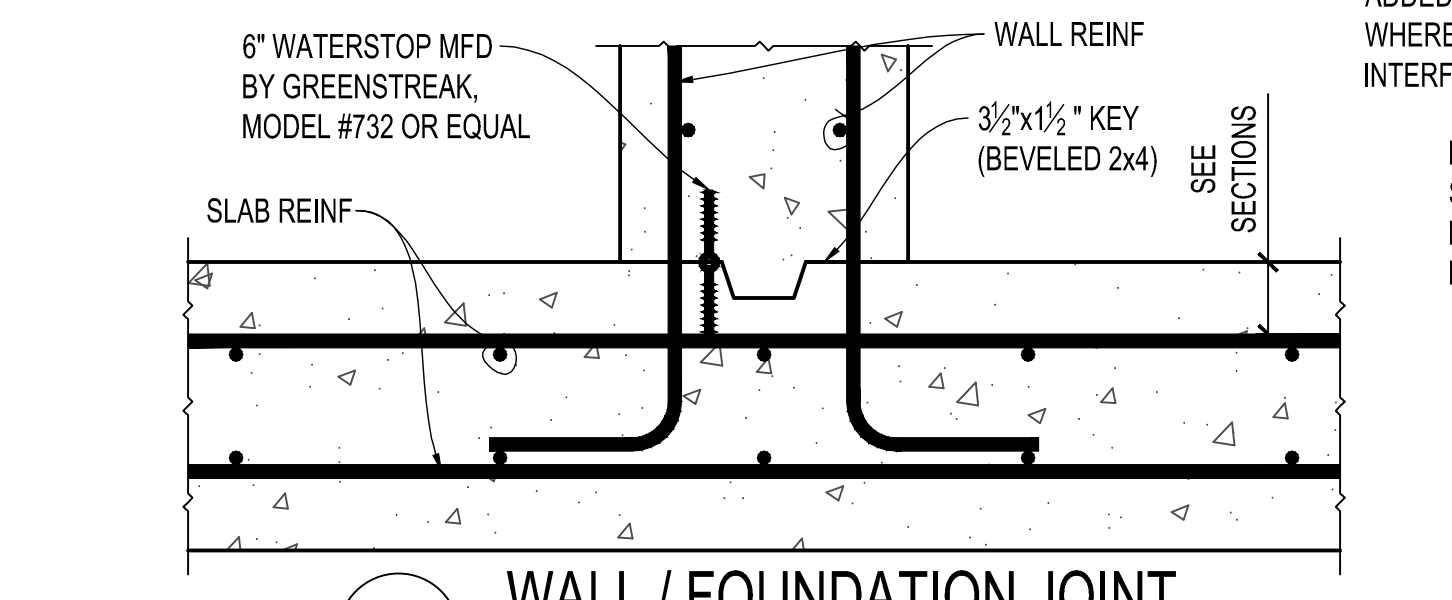
D2 PARTIAL CONTRACTION JT DETAIL
1 1/2"=1'-0"



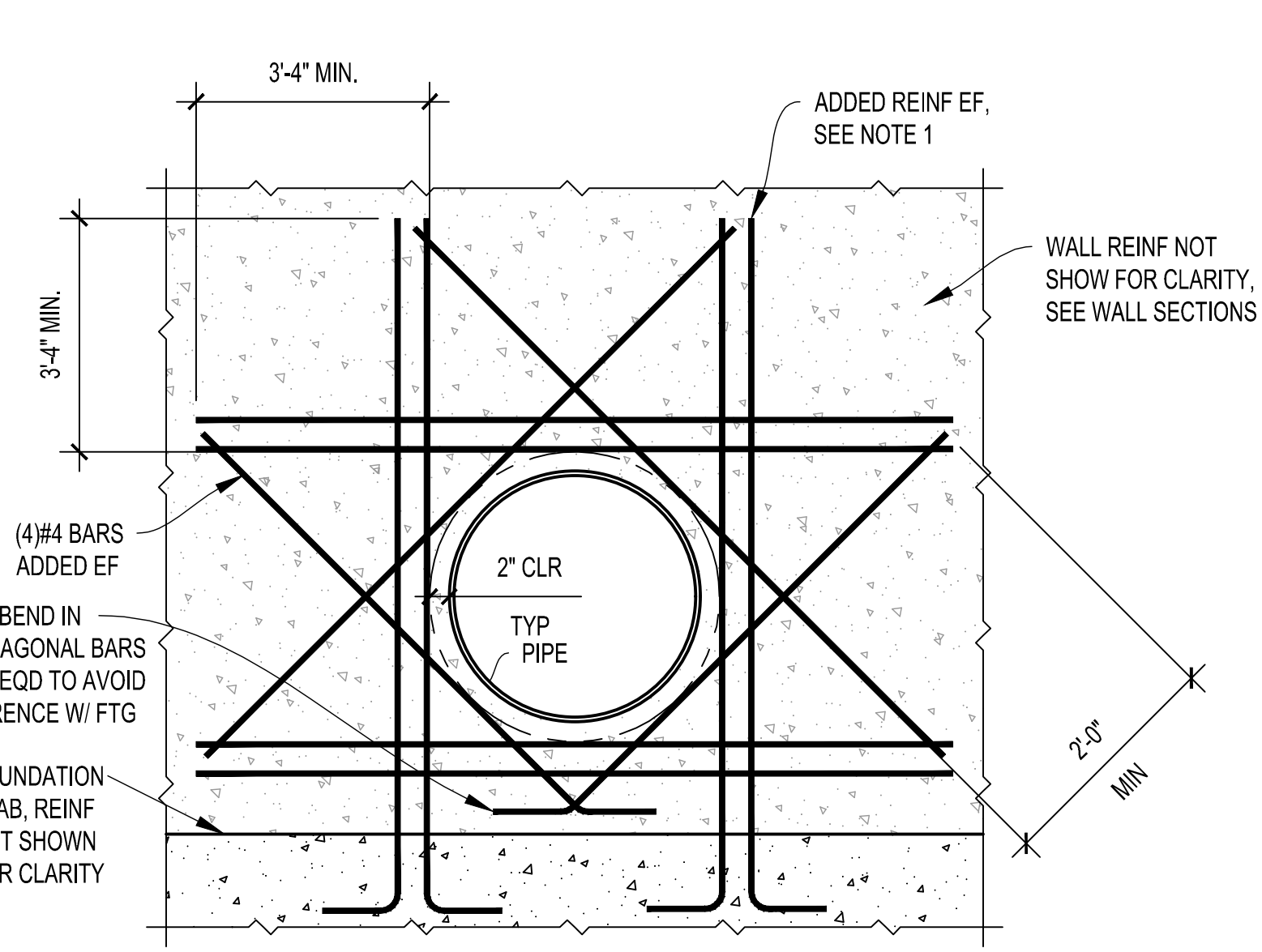
D4 CONC. CHAMFER DETAIL
1 1/2"=1'-0"



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

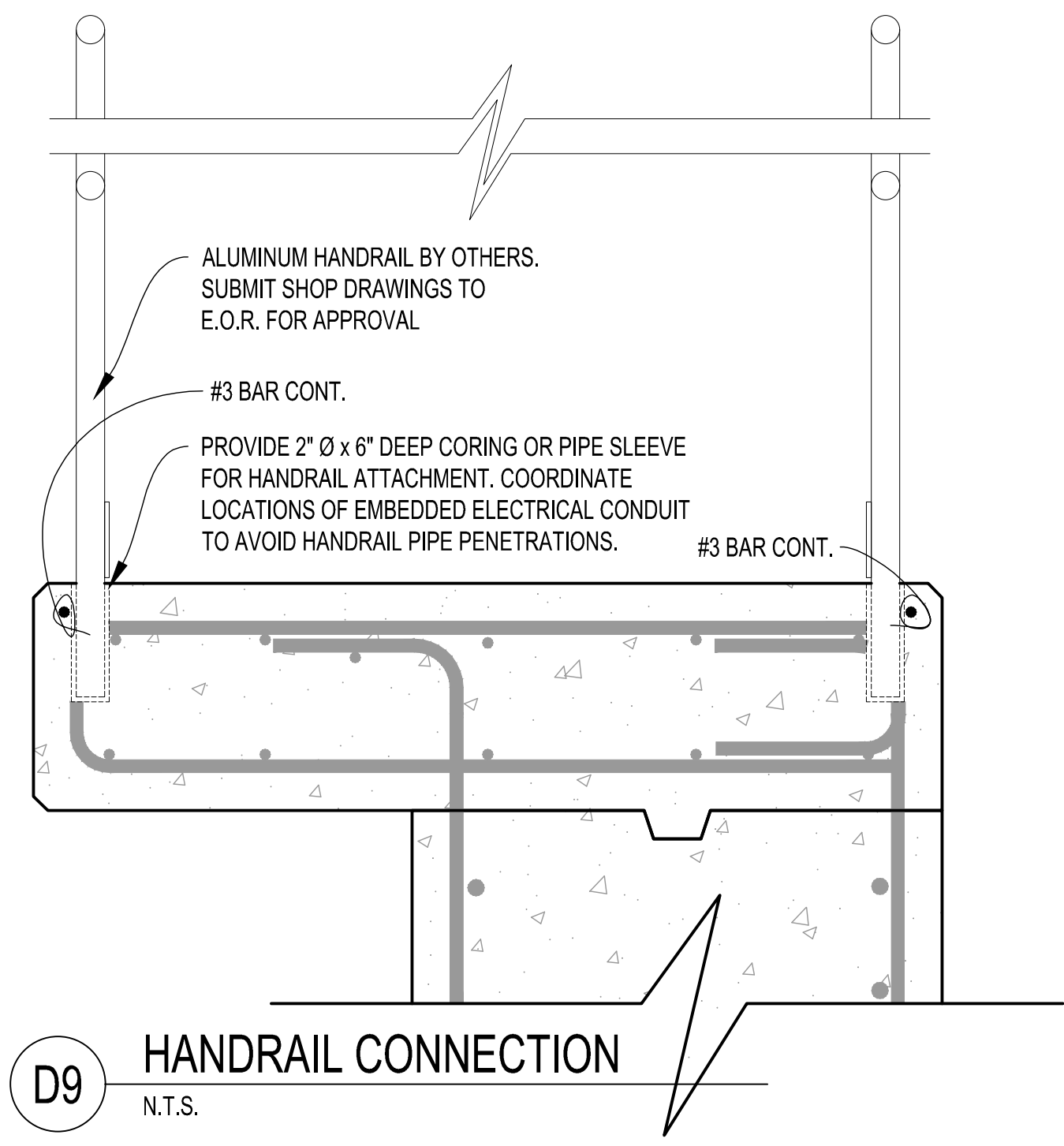


D6 WALL / FOUNDATION JOINT
1 1/2"=1'-0"

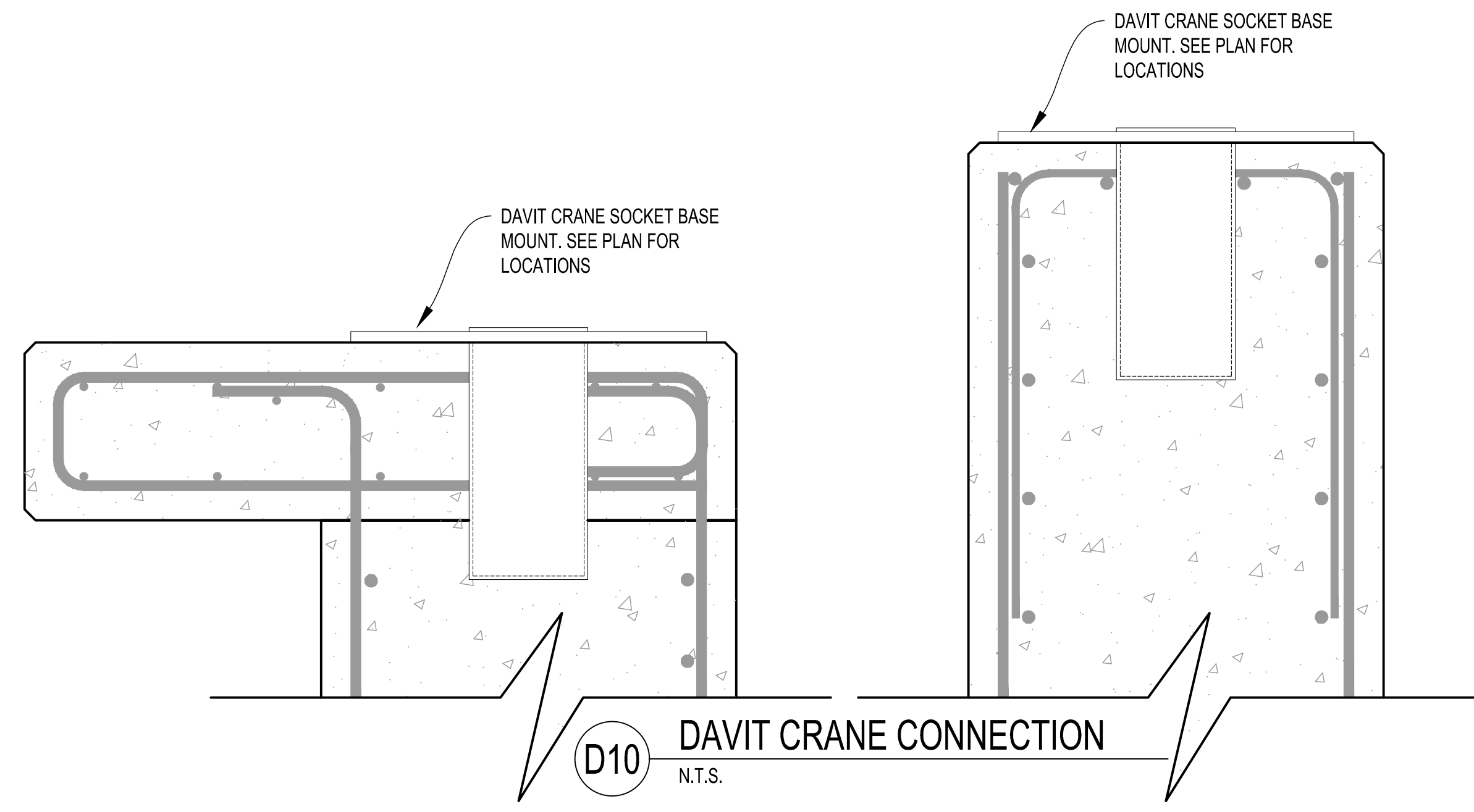


- NOTES:
 1. THE EQUIVALENT NUMBER OF VERT & HORIZ BARS INTERRUPTED BY OPENINGS SHALL BE PROVIDED BY PLACING 1/2 OF BARS ON EACH SIDE OF THE OPENING @3"OC.
 2. MAINTAIN NOT LESS THAN 1/4" CLEAR BETWEEN ADJACENT PARALLEL BARS.

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

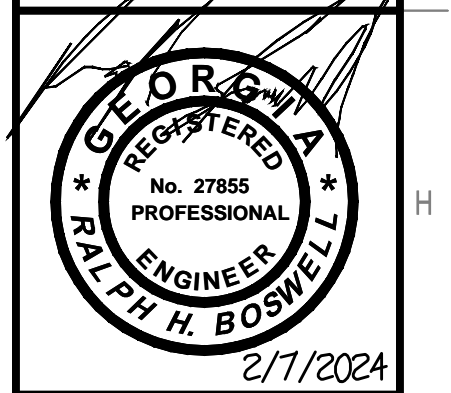
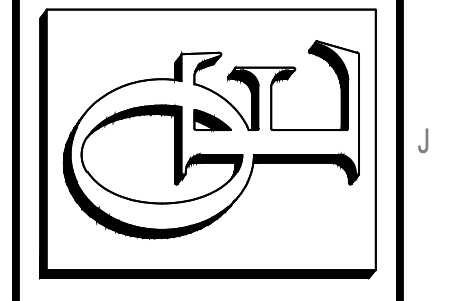


D9 HANDRAIL CONNECTION
N.T.S.



D10 DAVIT CRANE CONNECTION
N.T.S.

OCONEE ENGINEERING L.L.C.
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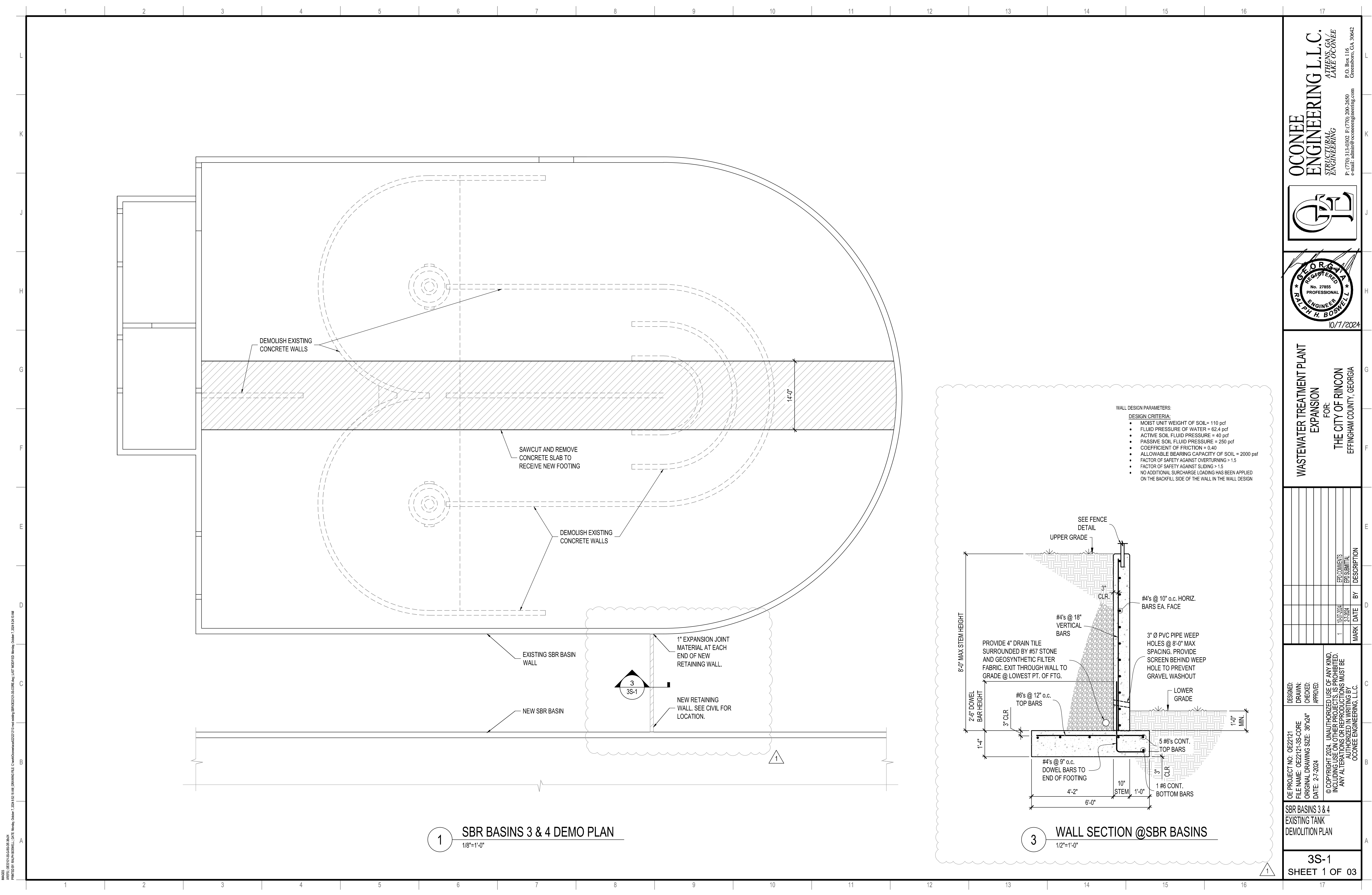
WASTEWATER TREATMENT PLANT
 EXPANSION
 FOR:
 THE CITY OF RINCON
 EFFINGHAM COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
	2/7/2024	EP/SUBMITAL	

DESIGNED: OE22121
 FILE NAME: OE2217-25-CORE
 ORIGINAL DRAWING SIZE: 36"x24"
 DATE: 2-7-2024
 DRAWN: [blank]
 CHECKED: [blank]
 APPROVED: [blank]
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SBR
 DETAILS

PLOTTED BY: RAJAN BOORELLI DATE: Monday, October 1, 2024 10:23 AM DRAWING FILE: C:\work\occonee\22217-25-CORE.dwg USER: SBR\BOORELLI RYAN LAST MODIFIED: Monday, January 28, 2024 9:03 AM

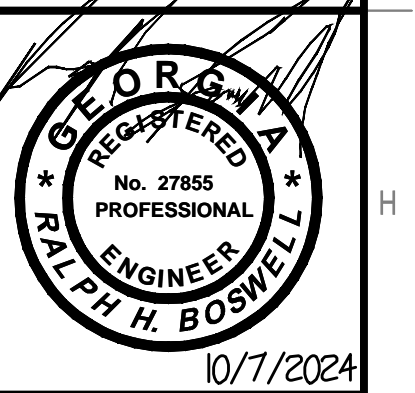
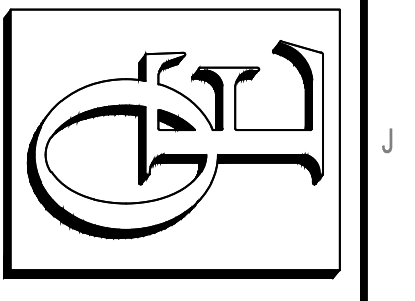


1 SBR BASINS 3 & 4 DEMO PLAN
1/8"=1'-0"

3 WALL SECTION @ SBR BASINS
1/2"=1'-0"

- WALL DESIGN PARAMETERS:
DESIGN CRITERIA:
- MOIST UNIT WEIGHT OF SOIL = 110 pcf
 - FLUID PRESSURE OF WATER = 62.4 pcf
 - ACTIVE SOIL FLUID PRESSURE = 40 pcf
 - PASSIVE SOIL FLUID PRESSURE = 250 pcf
 - COEFFICIENT OF FRICTION = 0.40
 - ALLOWABLE BEARING CAPACITY OF SOIL = 2000 psf
 - FACTOR OF SAFETY AGAINST OVERTURNING > 1.5
 - FACTOR OF SAFETY AGAINST SLIDING > 1.5
 - NO ADDITIONAL SURCHARGE LOADING HAS BEEN APPLIED ON THE BACKFILL SIDE OF THE WALL IN THE WALL DESIGN

OCONEE ENGINEERING L.L.C.
REGISTERED PROFESSIONAL ENGINEERING FIRM
ATTY: MS. CAI
LAKE O'CONNOR
P.O. Box 116
Greensboro, GA 30642
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e-mail: admin@oconeeengineering.com



WASTEWATER TREATMENT PLANT
EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
1	10/7/2024	EPR	COMMENTS
	2/7/2024		EPR SUBMITTAL

DESIGNED: CE22121
FILE NAME: CE2217-3S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 2-7-2024
DRAWN:
CHECKED:
APPROVED:

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OCONEE ENGINEERING, L.L.C.

SBR BASINS 3 & 4
EXISTING TANK
DEMOLITION PLAN

PLOT DATE: 10/27/2024 11:41 AM
PLOT BY: RALPH BOSWELL
PLOT FILE: C:\Users\rboswell\OneDrive\Documents\20241027\1141\DWG\3S-CORE.dwg
LAST MODIFIED: Monday, October 7, 2024 12:43 PM

FOUNDATION NOTES

- DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION BY A REGISTERED GEOTECHNICAL ENGINEER 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 RECOMMENDATIONS. GRANULAR BASE BELOW FOOTING SHALL BE A MINIMUM OF 12" OF #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/ 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 = III
SEISMIC IMPORTANCE FACTOR (I_e) = 1.25
 $S_D = 0.3225$ $S_1 = 0.1164$
SITE CLASS = D
 $S_{DS} = 0.332$ $S_{D1} = 0.184$
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-16 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) = 0.2072
SEISMIC DESIGN CATEGORY = C
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

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 4000 PSI FOR WALLS AND SLABS IN OTHER STRUCTURES.
- STRUCTURAL MEMBERS OF REINFORCED CONCRETE IN LIQUID CONTAINING VESSELS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 350-20. ALL OTHER STRUCTURAL SLABS AND WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-14.
- 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 318-14. 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.
- APPLY SHERWIN WILLIAMS DURA-PLATE 6100 TO ALL LIQUID CONTAINING STRUCTURES. PREPARE CONCRETE SURFACES PER MANUFACTURER'S RECOMMENDATIONS.

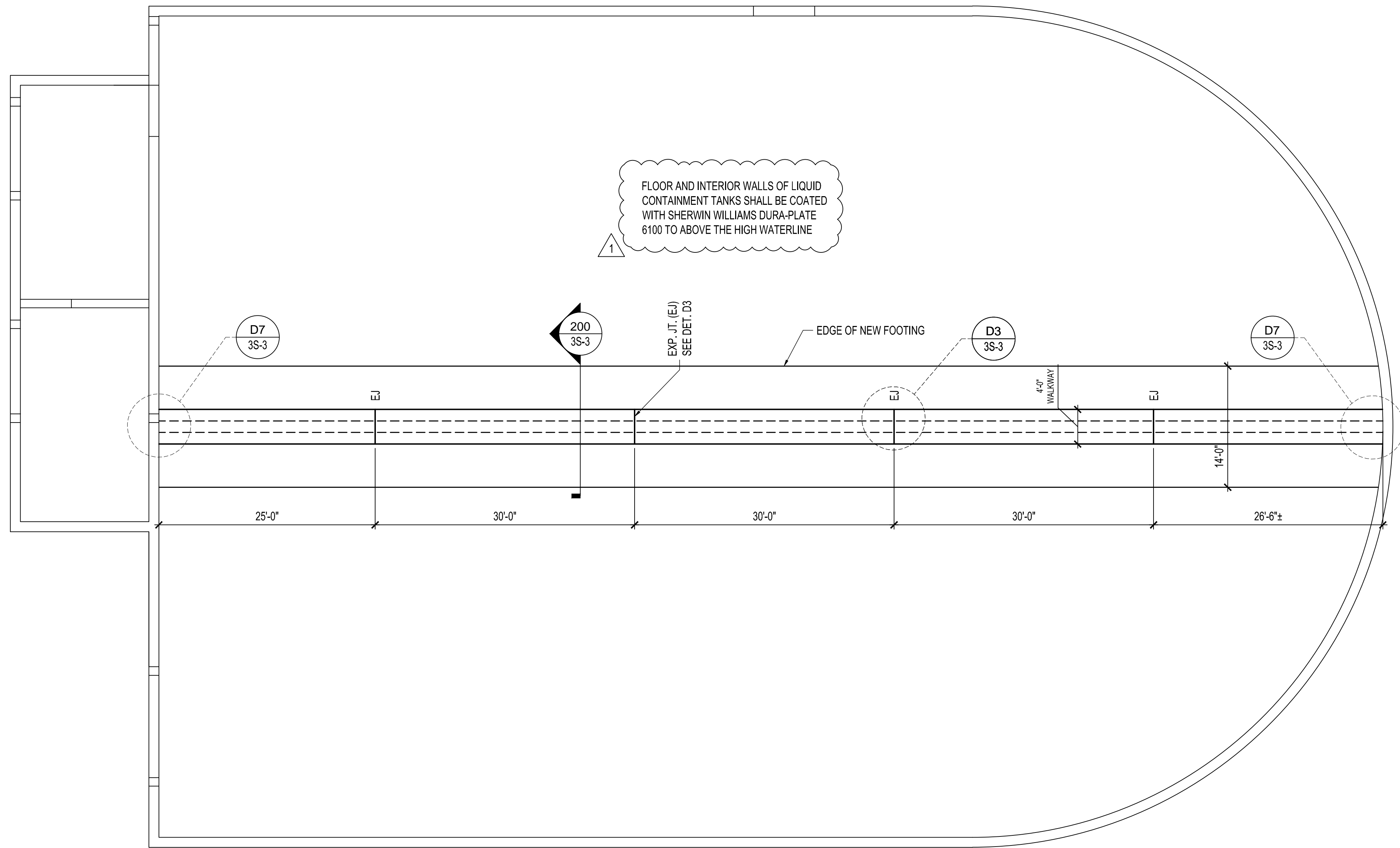
CONC REINF LAP LENGTH

4500 PSI (ACI 350-20)

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

REINFORCING STEEL NOTES

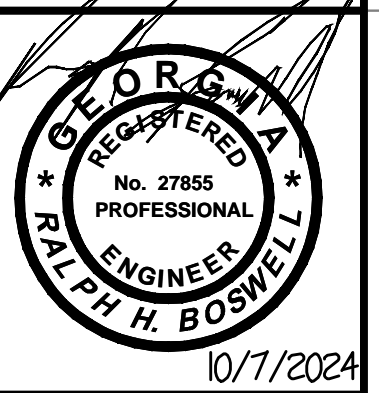
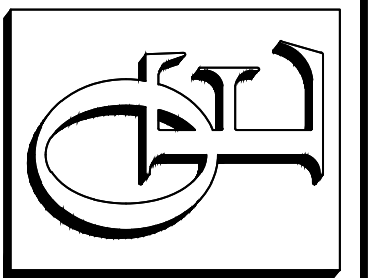
- SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- MATERIALS:
2.1. REINFORCING BARS SHALL COMPLY WITH ASTM A615 GRADE 60.
2.2. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A82 AND A185.
2.3. REINFORCING BARS FOR WELDING SHALL COMPLY WITH ASTM A-706.
- 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 = $\frac{3}{4}$ "
FOOTINGS & BASE SLABS = 2"



2

SBR TANK MODIFICATION
3/32"=1'-0"

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 e-mail: admin@oconeeengineering.com



WASTEWATER TREATMENT PLANT
 EXPANSION
 FOR:
 THE CITY OF RINCON
 EFFINGHAM COUNTY, GEORGIA

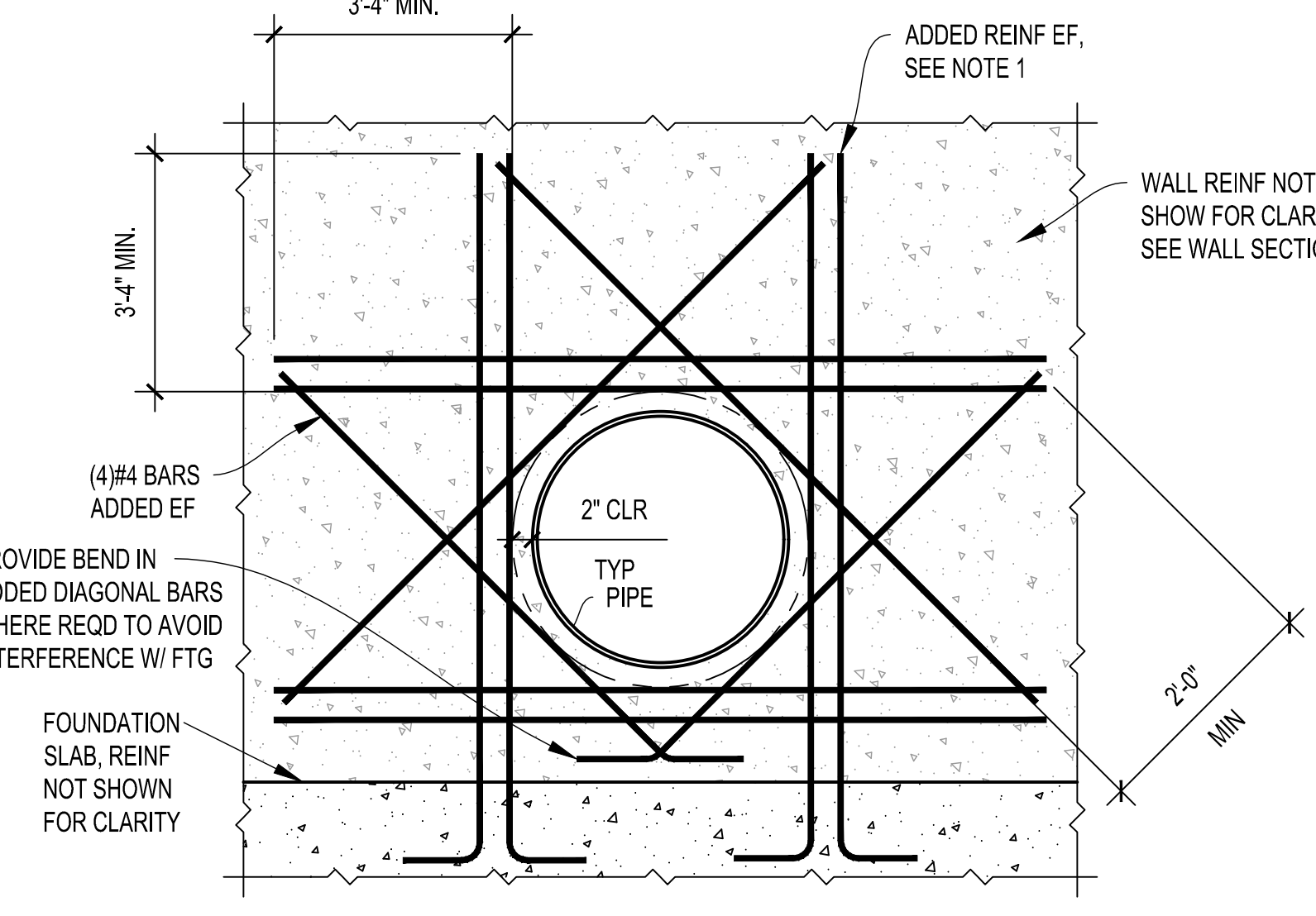
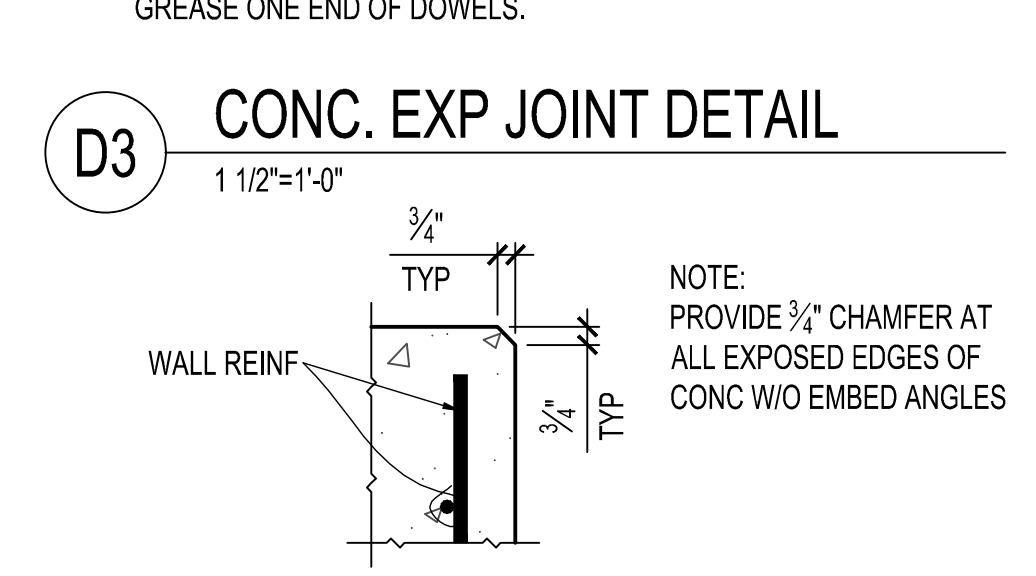
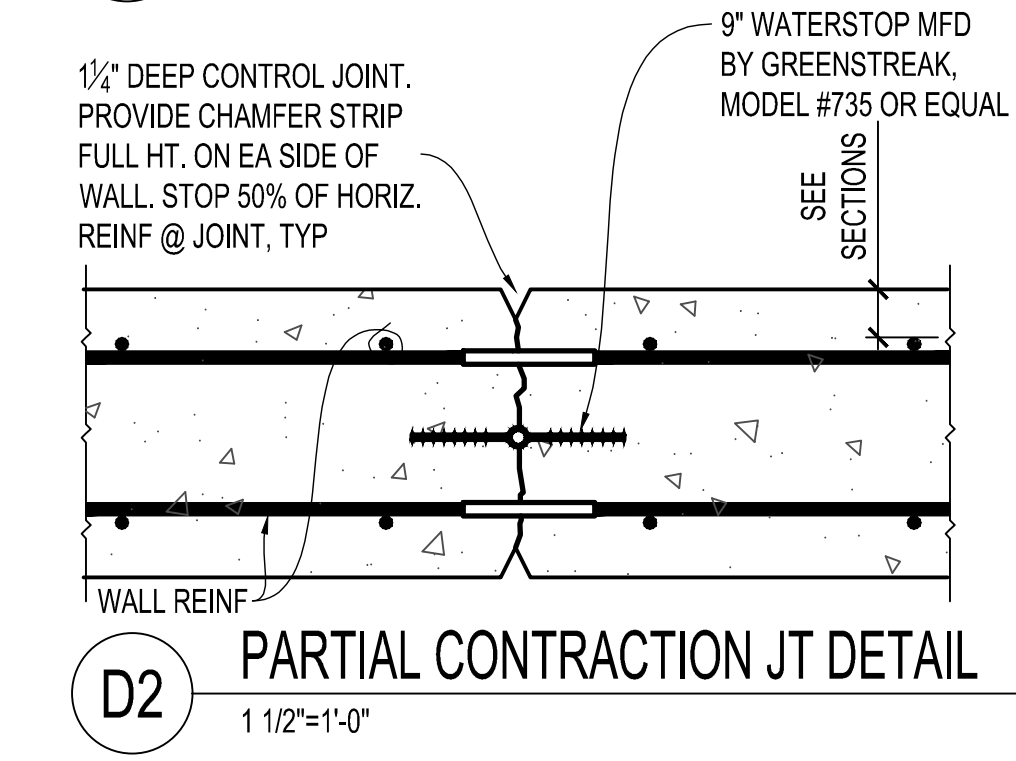
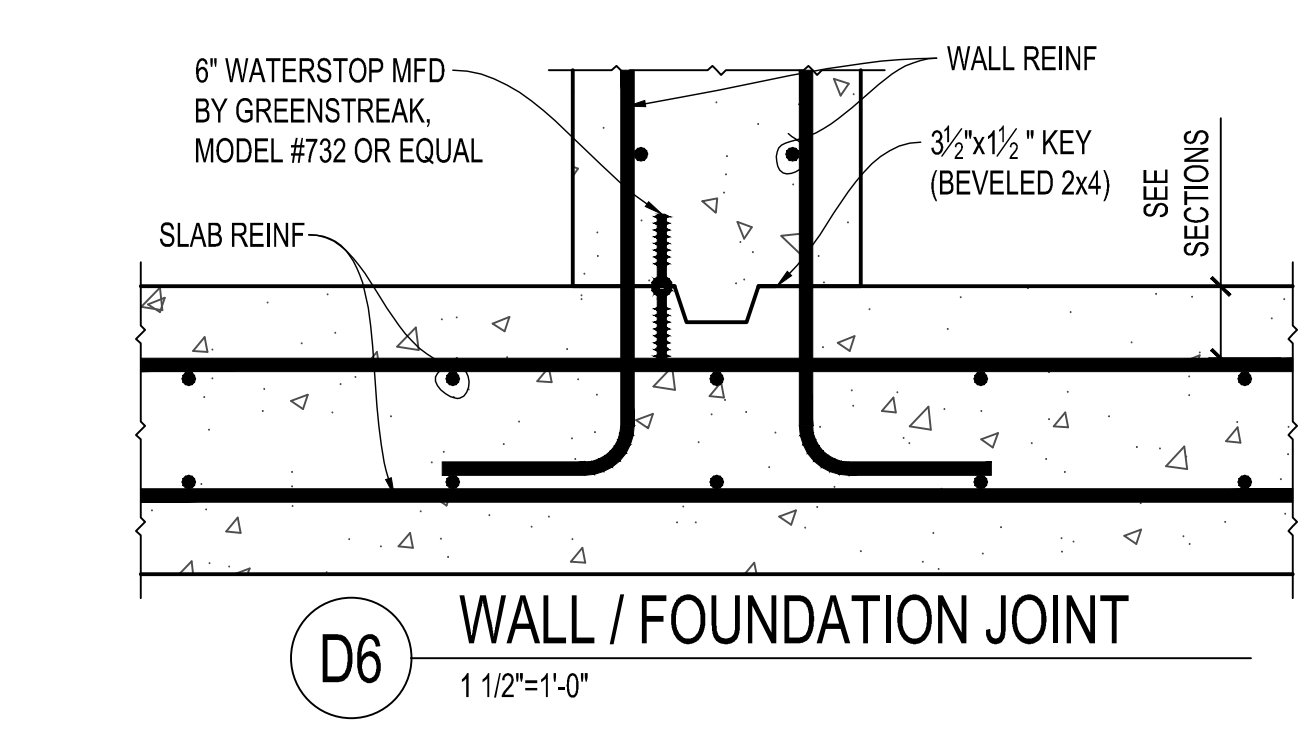
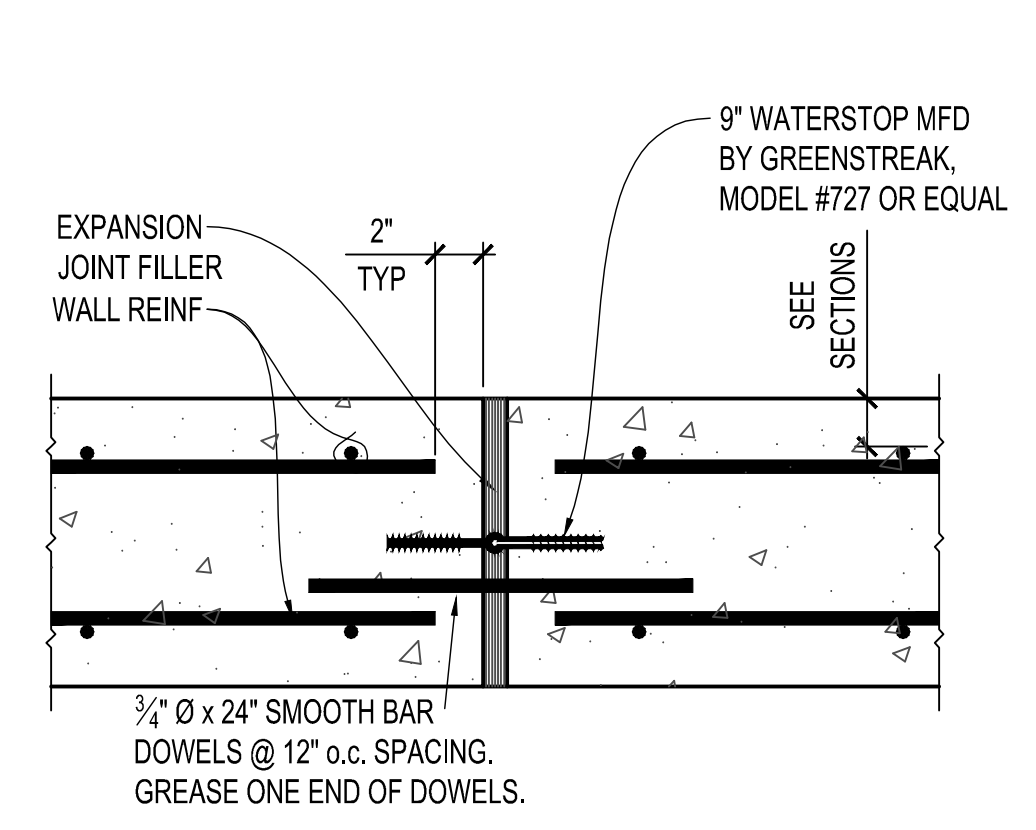
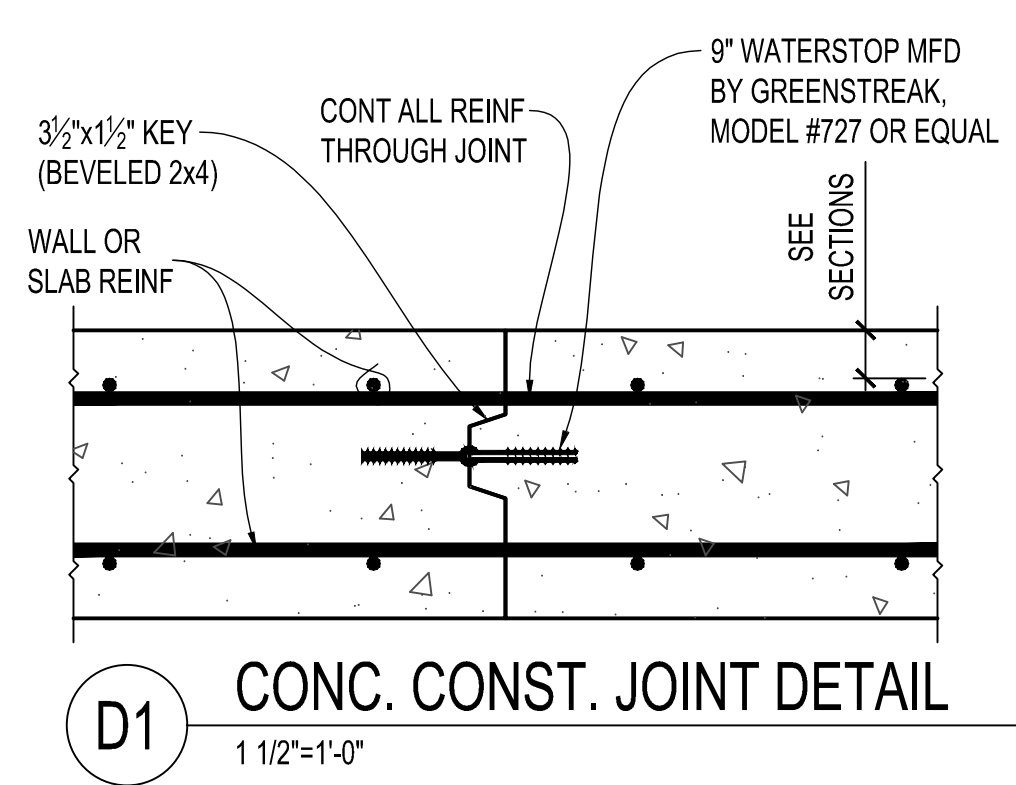
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1	10/17/2024	EJ	PROVISIONAL EROSION CONTROL
	2/7/2024	EJ	PROVISIONAL EROSION CONTROL

DESIGNED: OJ22121
 FILE NAME: OJ2217-3S-CORE
 ORIGINAL DRAWING SIZE: 36"x24"
 DATE: 2-7-2024
 CHECKED:
 APPROVED:
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 OCONEE ENGINEERING, L.L.C.

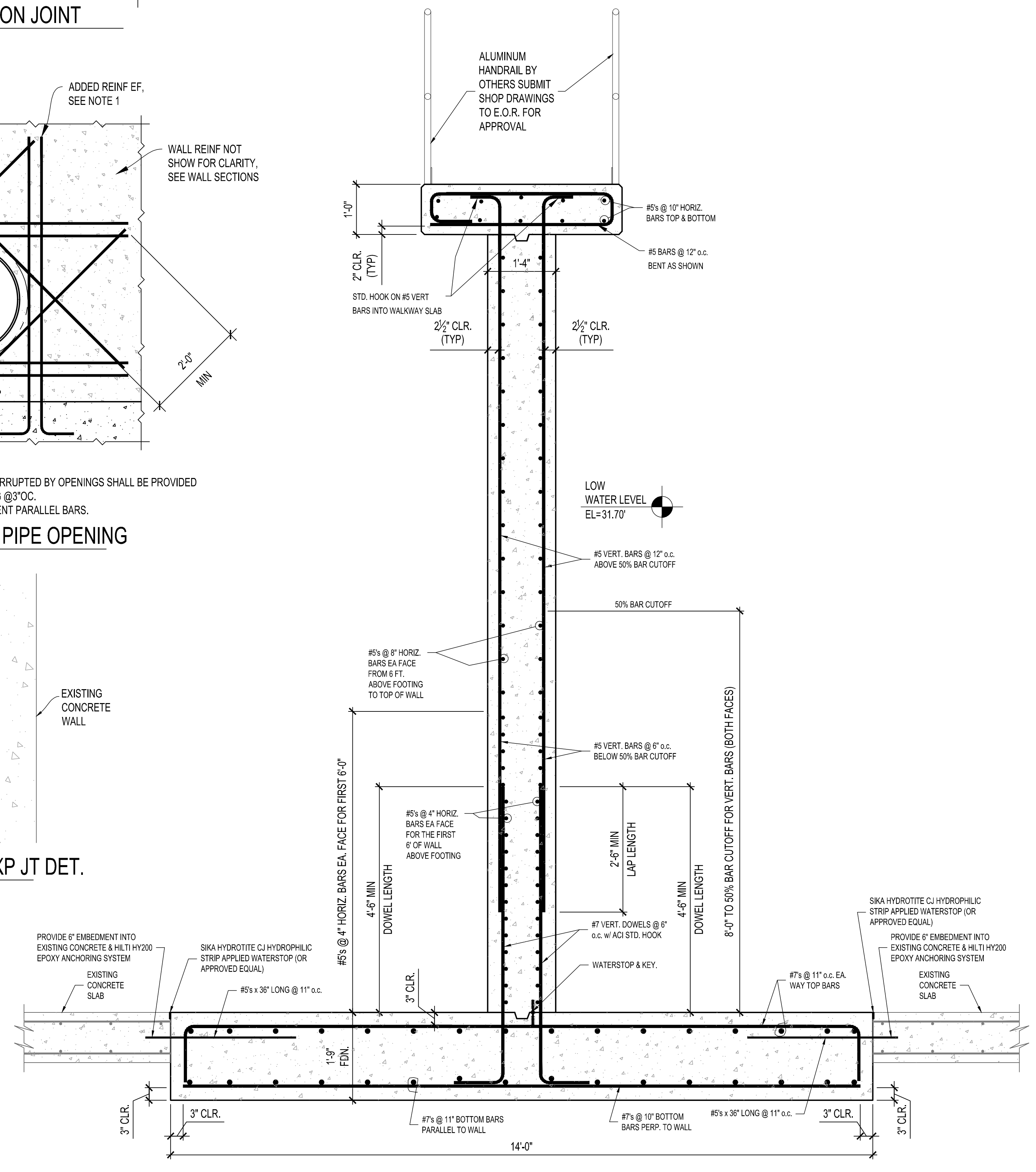
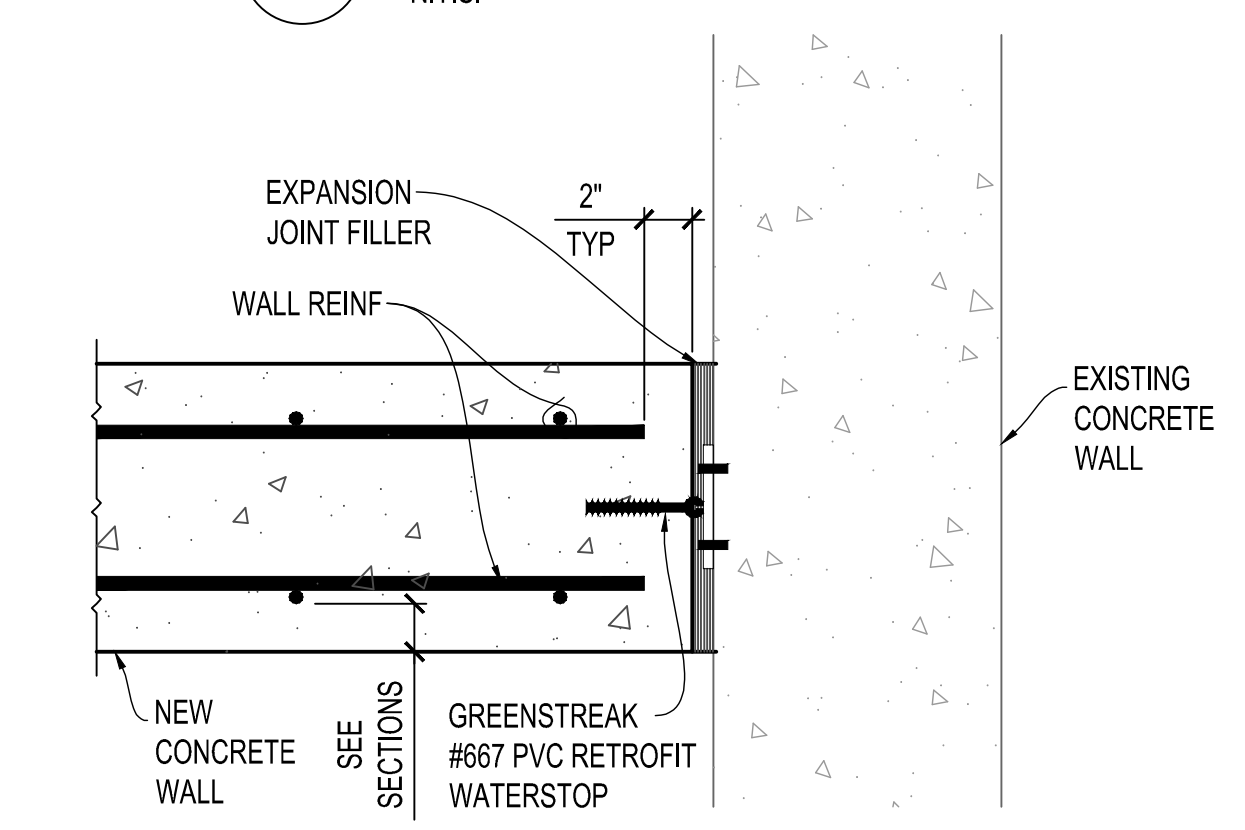
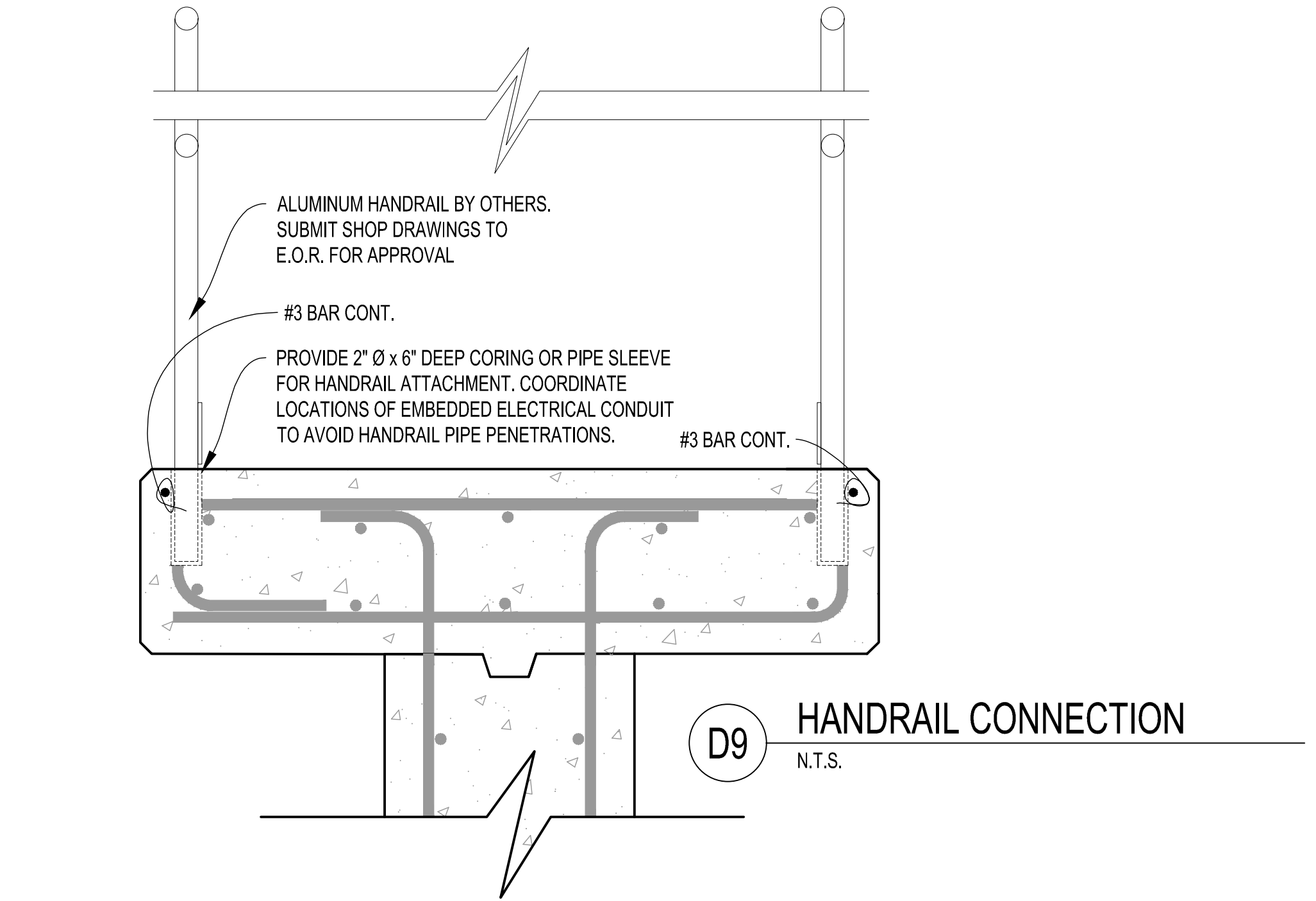
SBR BASINS 3 & 4
 EXISTING TANK
 MODIFICATIONS &
 SPECIFICATIONS

3S-2
 SHEET 2 OF 03

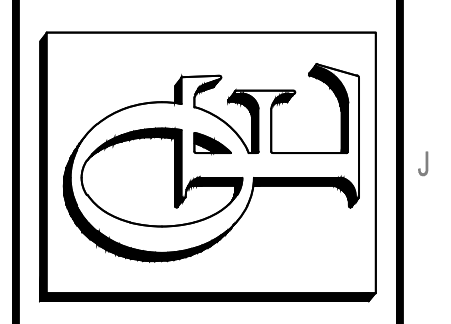
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- NOTES:
1. THE EQUIVALENT NUMBER OF VERT & HORIZ BARS INTERRUPTED BY OPENINGS SHALL BE PROVIDED BY PLACING 1/2 OF BARS ON EACH SIDE OF THE OPENING @ 3" O.C.
 2. MAINTAIN NOT LESS THAN 1/2" CLEAR BETWEEN ADJACENT PARALLEL BARS.



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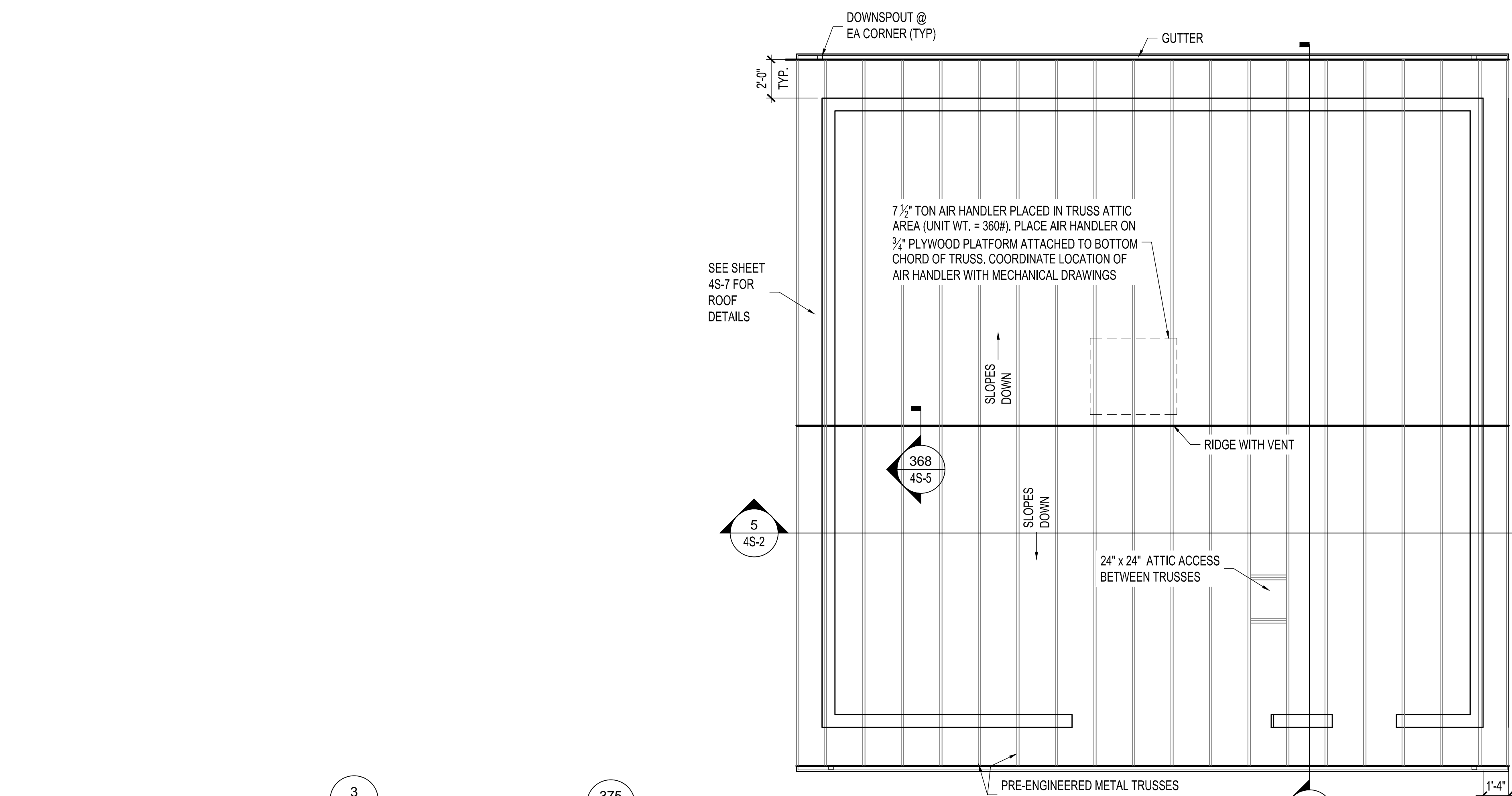
WASTEWATER TREATMENT PLANT EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
2/2/2024		EP/SUBMITAL	

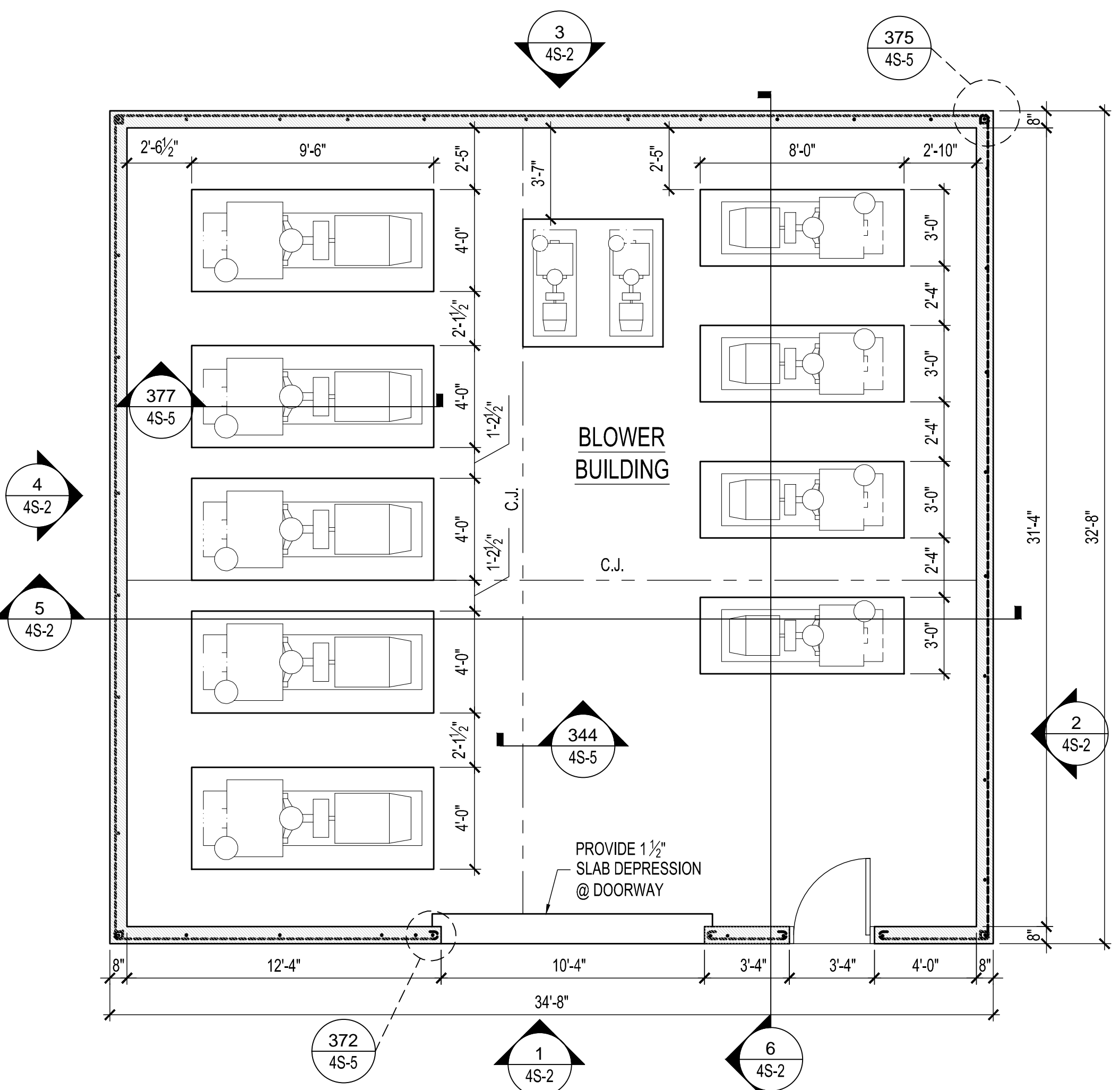
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APPROVED: DATE: 2-7-2024
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SBR BASINS 3 & 4
TANK MODIFICATIONS
SECTIONS & DETAILS

PLOTTED BY: RAJAN BOSEWELL DATE: 2/2/2024 10:58 AM
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 LAYOUT: 3S-CORE.dwg
 PLOT SCALE: 1.0000
 PLOT RANGE: EXTENDED
 PLOT OFFSET: 0.1000
 PLOT SPEED: 1200 DOTS PER INCH
 PLOT DEVICE: HP DesignJet 3600PS



2 ROOF FRAMING PLAN
1/4"=1'-0"



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

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 5/8" APA RATED SHEATHING W/ #10 TEKS WOOD TO METAL FASTENERS AT 8" o.c. @ PANEL EDGES & @ 12" o.c. @ INTERMEDIATE SUPPORTS.

CONC REINF LAP LENGTH
3000 PSI (ACI 318-14)

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	TYPICAL	
	8"	16"
MINIMUM	8"	8"
MAXIMUM	8"	8"
3'-4"	2 - #4	2 - #4
3'-4"	2 - #5	2 - #5
5'-4"	2 - #6	2 - #5
7'-4"	2 - #6	2 - #6

- EXTEND BOND BEAM REINFORCING 24" OR 40 BAR DIAMETERS (WHICHEVER IS GREATER) BEYOND THE EXTENTS OF THE OPENINGS. 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.
- SEE DETAILS 373 & 374 FOR ADDITIONAL REINFORCING AT OPENINGS.

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.

STRUCTURE NOTES

- DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BRNG PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION AND ENGINEER SHALL BE NOTIFIED IF ACTUAL SOIL BEARING PRESSURE IS LOWER THAN DESIGN VALUE.
- FLOOR LIVE LOAD = 100 PSF
- PRE-ENGINEERED TRUSS DESIGN LOADS:

TOP CHORD:

 - DEAD LOAD = 10 PSF + TRUSS WEIGHT
 - LIVE LOAD = 20 PSF

BOT CHORD:

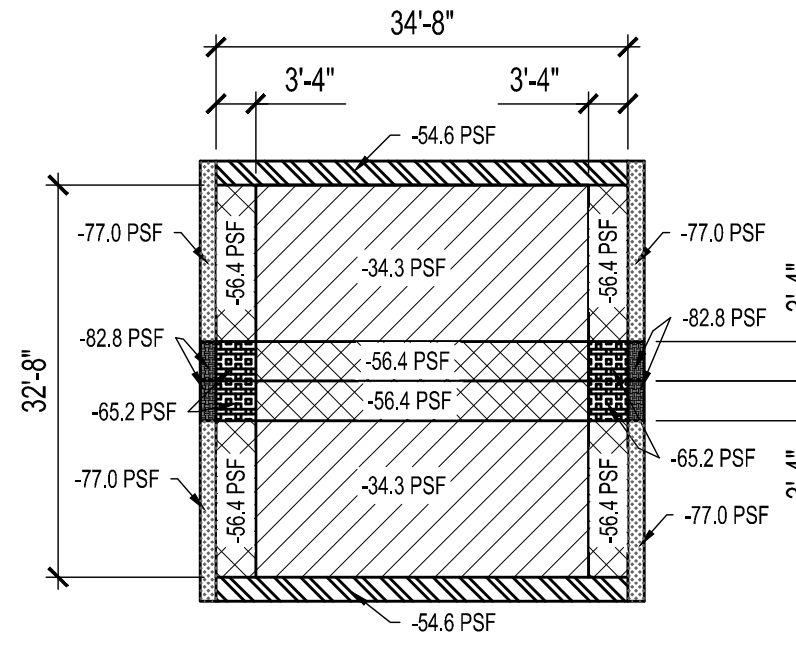
 - DEAD LOAD = 5 PSF + TRUSS WEIGHT
 - LIVE LOAD = 10 PSF (60 PSF @ ACCESS LOCATIONS)
 - MECH LOAD = 200# CONCENTRATED LOAD @ ANY LOCATION ALONG BOT CHORD
- WIND LOADS:

BASIC WIND SPEED (V, 3 SEC GUST) = 143 MPH
OCCUPANCY CATEGORY = III
WIND IMPORTANCE FACTOR (Iw) = 1.0
UPWIND EXPOSURE CATEGORY = B
INTERNAL PRESSURE COEFF. (GCpi) = ±0.18
A = 3.3 FT.

COMPONENTS & CLADDING NET DESIGN PRESSURES (Pgross PER ASCE 7-16) (LOADS ARE UNREDUCED AND UNFACTORED)

ROOF COMPONENTS & CLADDING DESIGN PRESSURES: (BASED ON 50 SF AREA)
14.3 PSF MAXIMUM DOWNWARD LOAD
SEE ROOF UPLIFT DIAGRAM FOR UPLIFT LOADS

WALL COMPONENTS & CLADDING DESIGN PRESSURES: (BASED ON 20 SF AREA)
ZONE 4 = +29.2 PSF, -31.7 PSF
ZONE 5 = +29.2 PSF, -38.1 PSF



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 1/2 THE OVERALL THICKNESS OF SLAB.
 - SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
 - MIN SLAB THICKNESS OF 2 1/2" MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.

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REGISTERED PROFESSIONAL ENGINEER
RALPH H. BOSWELL
2/7/2024

WASTEWATER TREATMENT PLANT EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY GA

MARK	DATE	BY	DESCRIPTION
02/27/2024	02/27/2024	EPD/SUBMITTAL	ISSUE FOR REVIEW
02/27/2024	02/27/2024	EPD/SUBMITTAL	ISSUE FOR REVIEW

DESIGNED: 02/27/24
DRAWN: 02/27/24-AS-CORE
CHECKED: 02/27/24
APPROVED: 02/27/24
DATE: 02/27/2024

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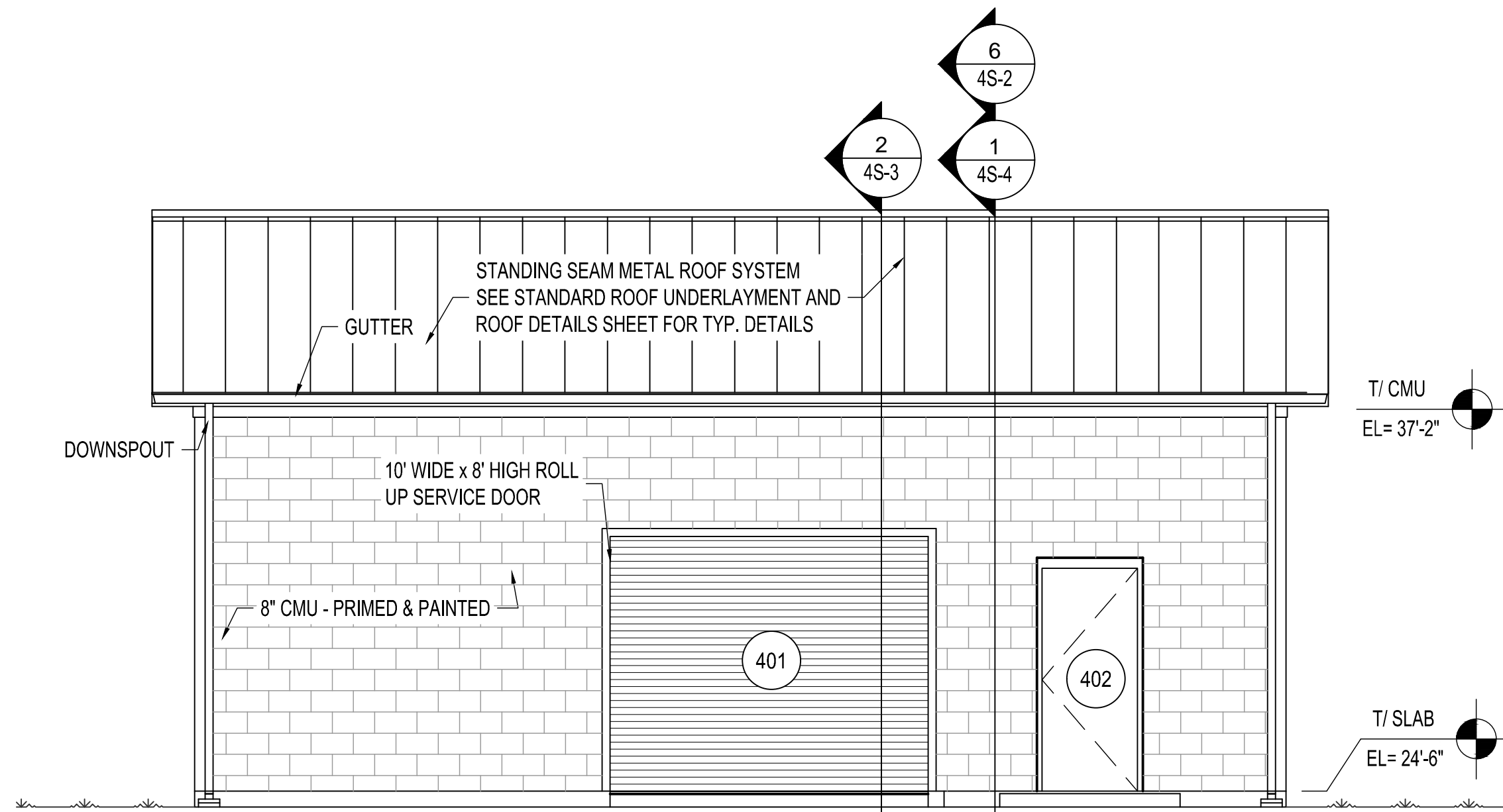
BLOWER BUILDING

NOTES AND PLANS

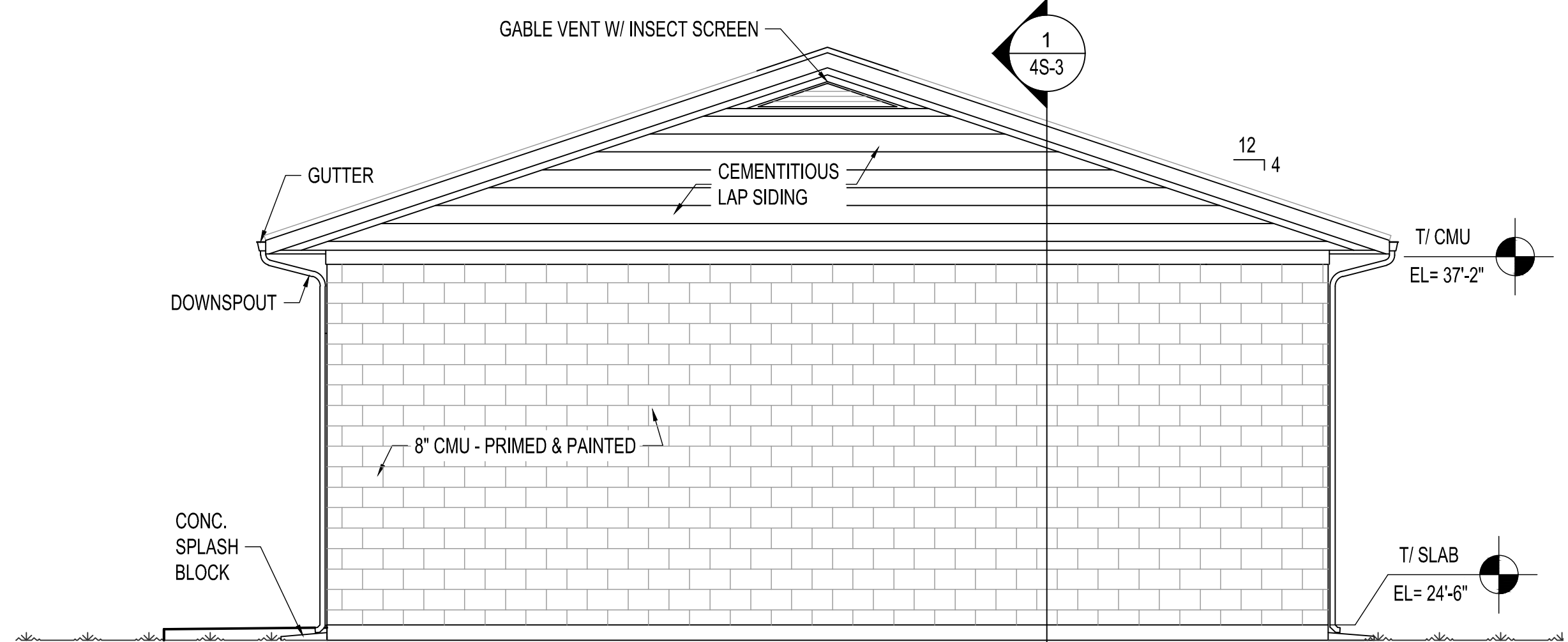
4S-1

SHEET 1 OF 07

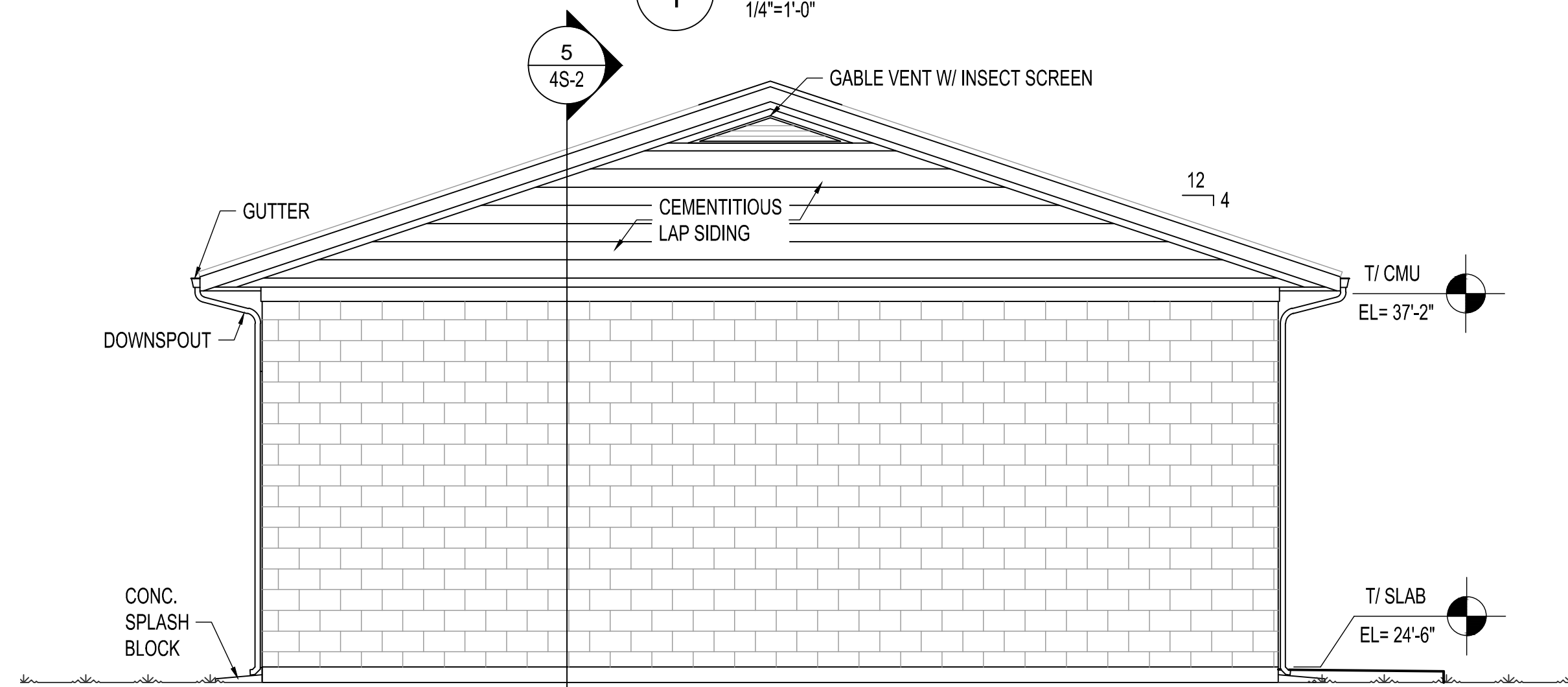
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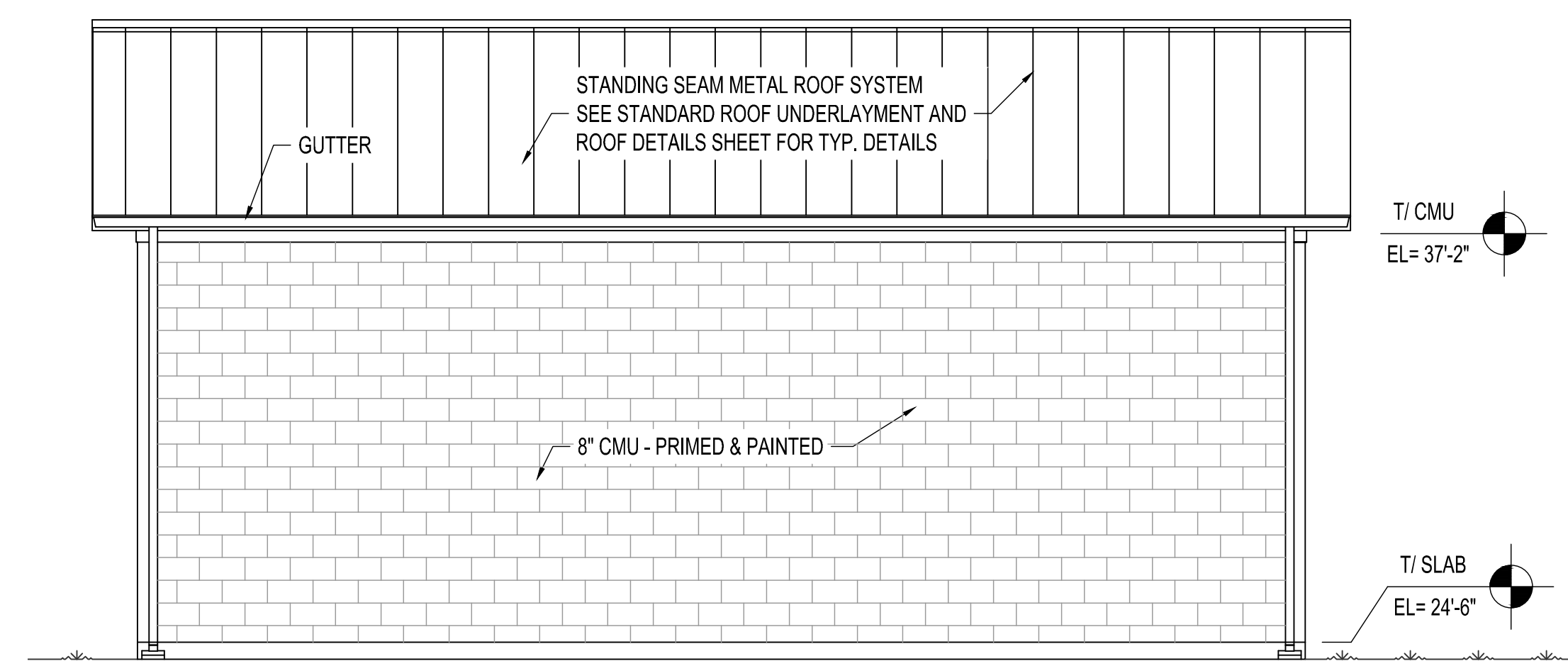
1 FRONT ELEVATION
1/4"=1'-0"



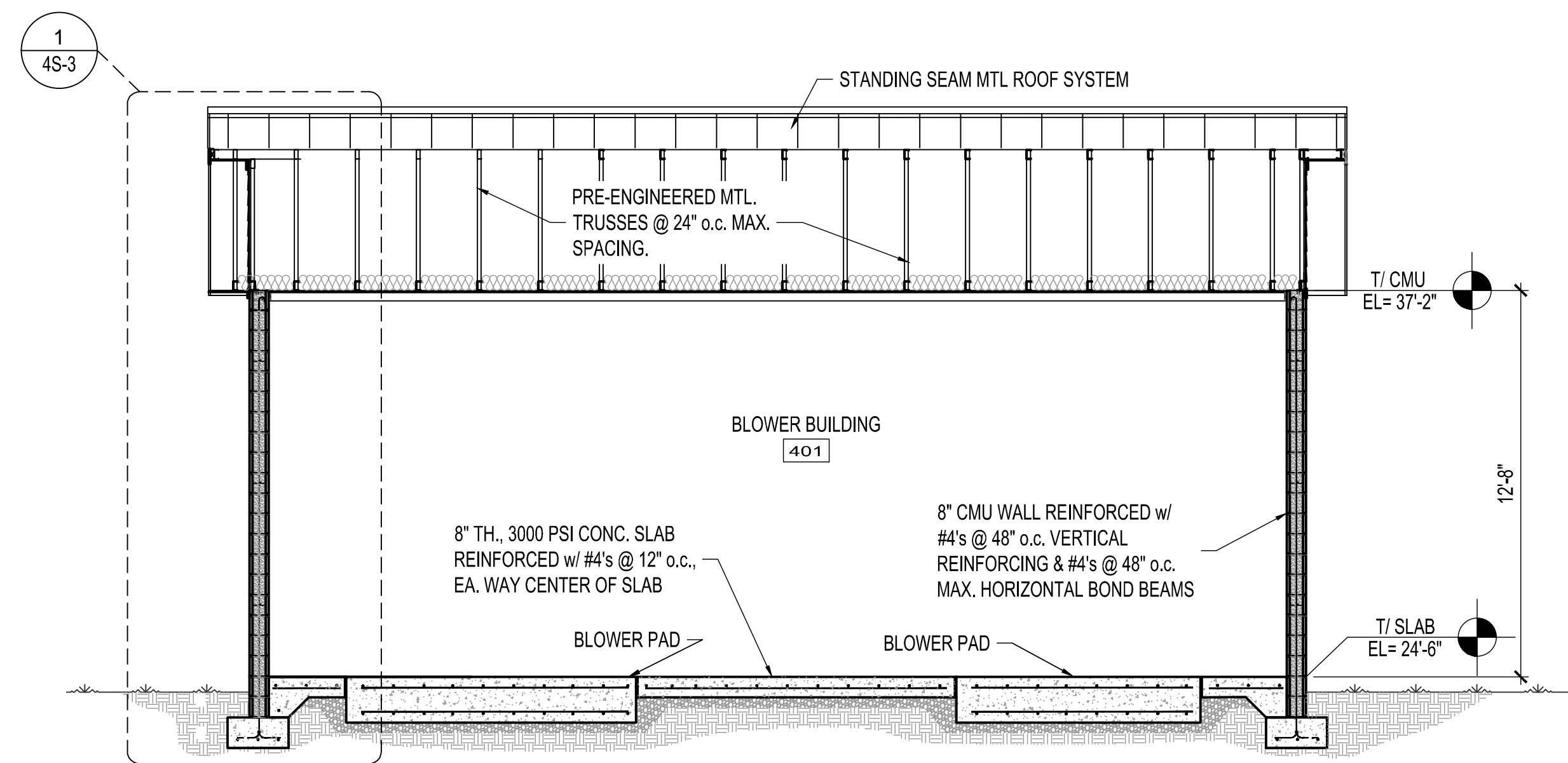
2 RIGHT SIDE ELEVATION
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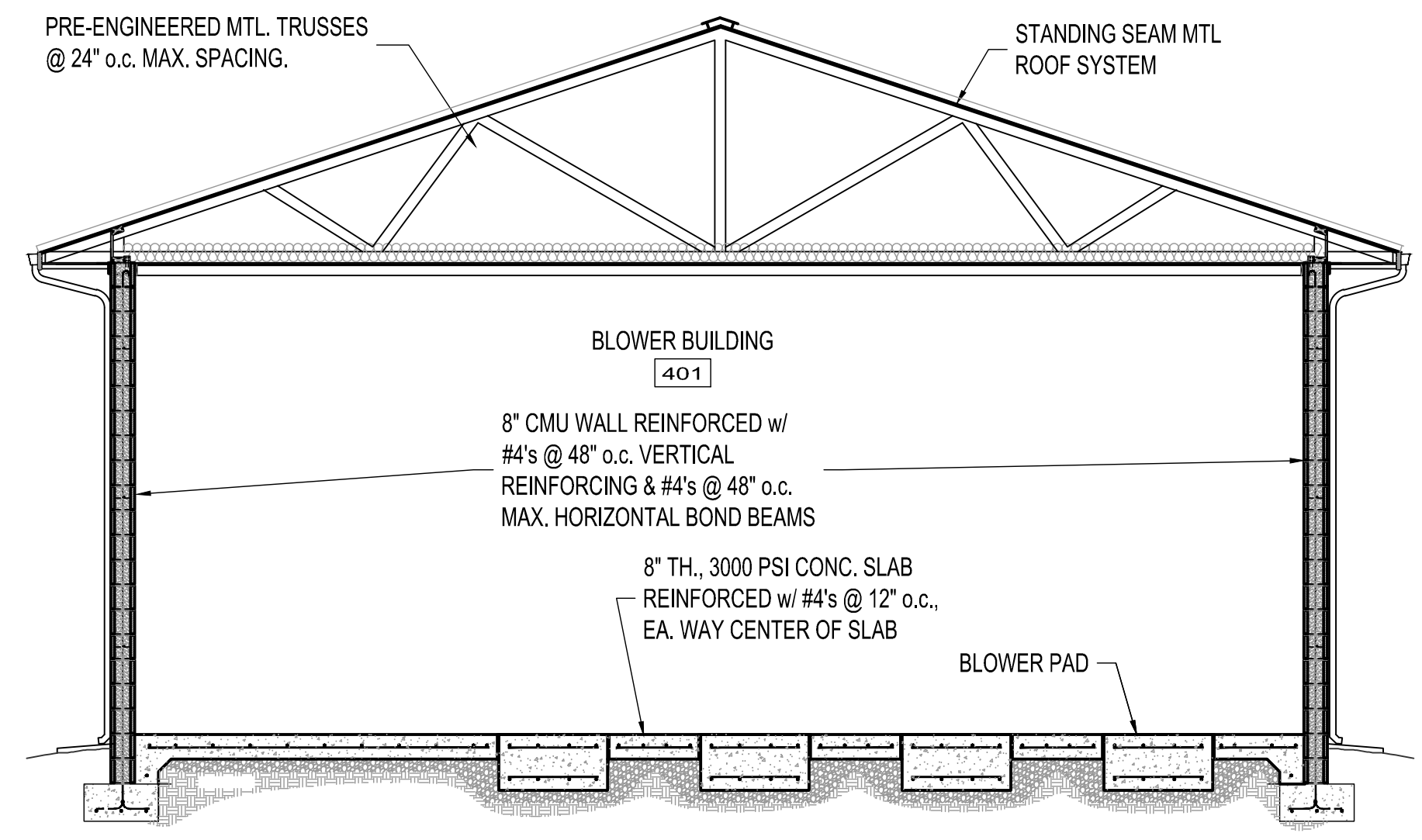
4 LEFT SIDE ELEVATION
1/4"=1'-0"



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



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



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

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WASTEWATER TREATMENT PLANT
EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY GA

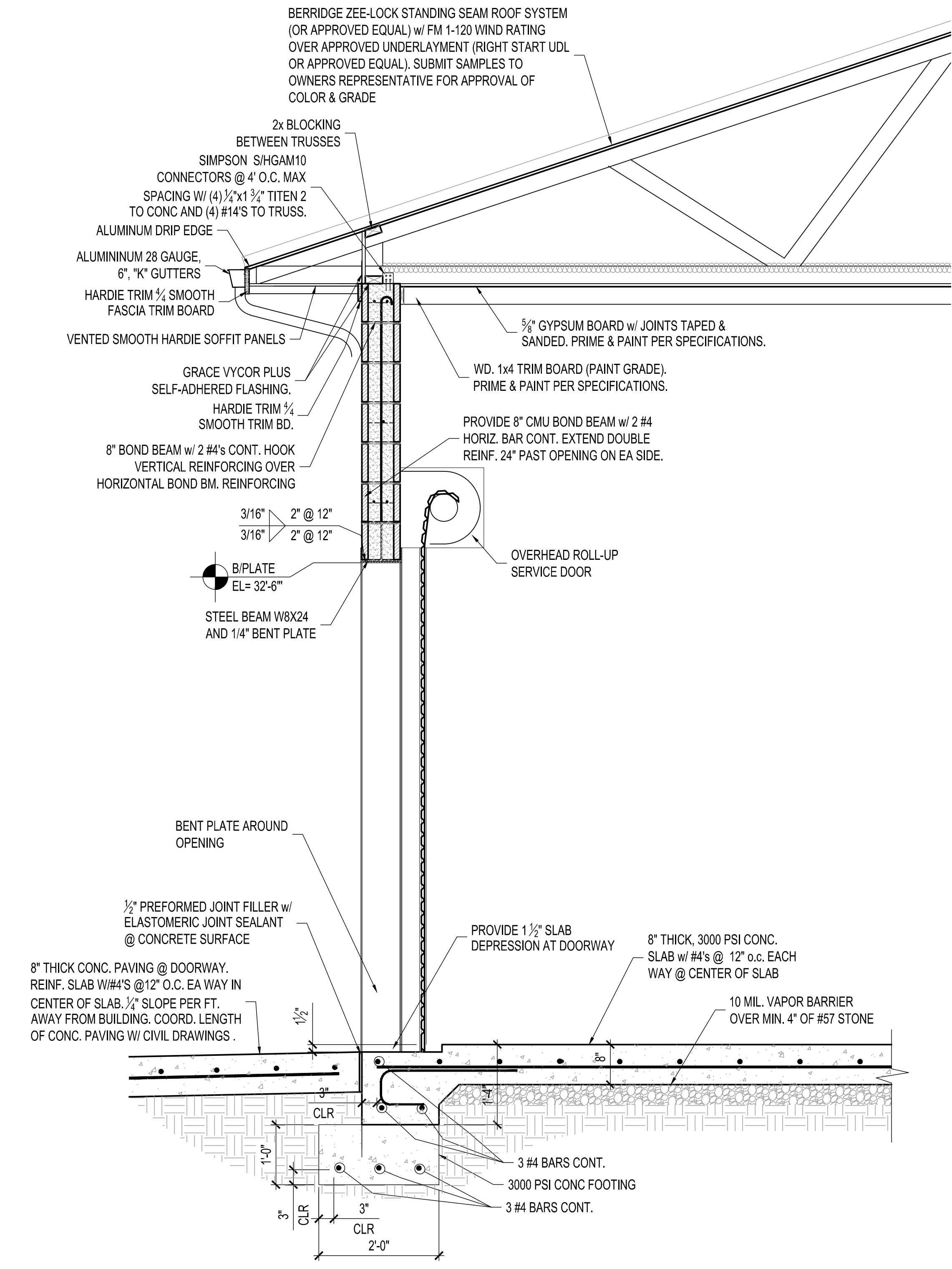
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02-07-2024	02-07-2024		EPD SUBMITTAL ISSUE FOR REVIEW

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DRAWN: 02/21/21-4S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 02-07-2024
APPROVED:
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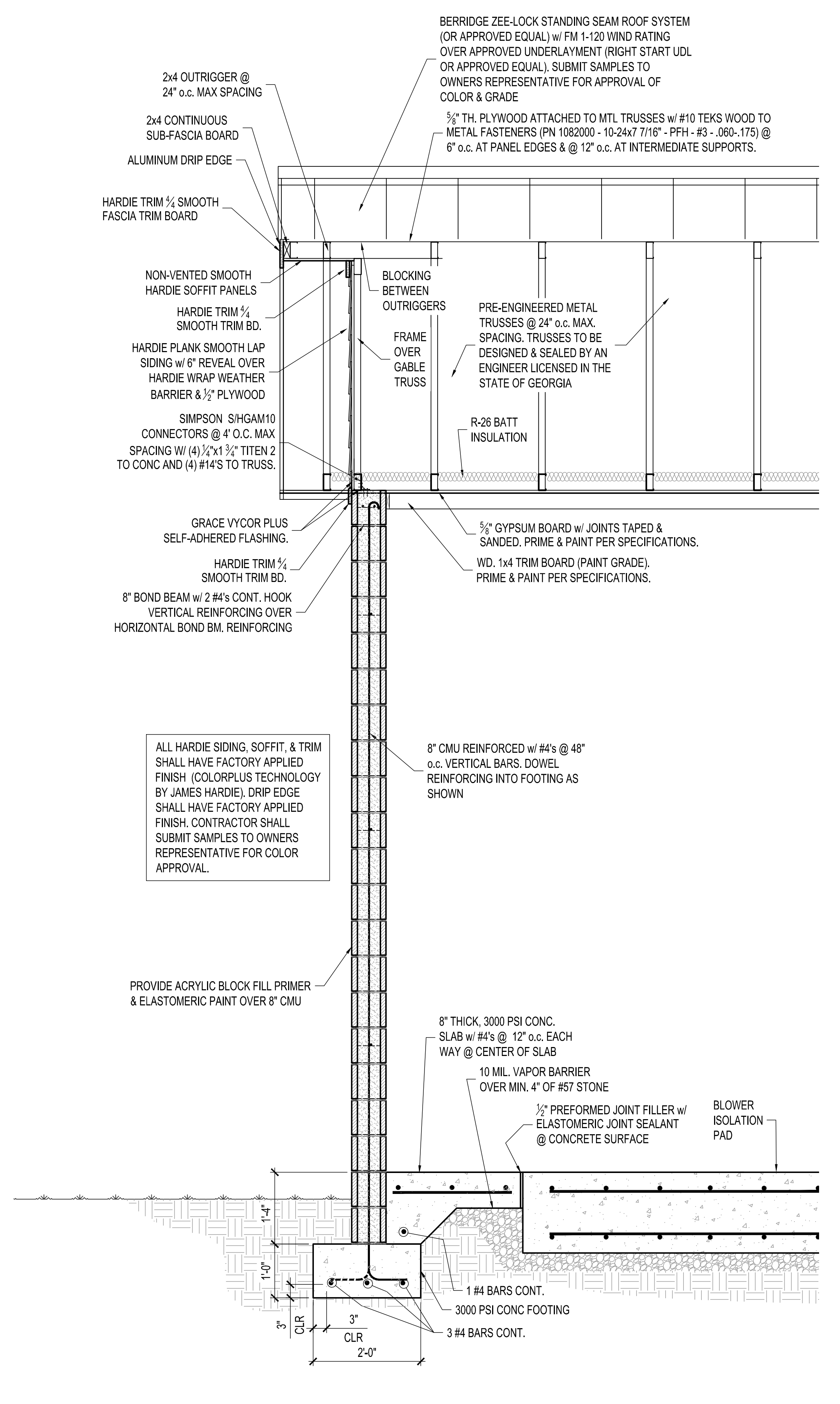
BLOWER BUILDING
SECTIONS & ELEVATIONS
4S-2
SHEET 2 OF 07

NOTES:
 1. ALL DIMENSIONS UNLESS OTHERWISE NOTED.
 2. REFER TO ALL DRAWINGS FOR REVISIONS.
 3. PRINTED BY: RAJPH BOSWELL, DATE: 02/07/2024
 4. PROJECT NO.: 02/21/21-4S-CORE
 5. FILE NAME: 02/21/21-4S-CORE
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 7. DATE: 02-07-2024
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2 WALL SECTION @ ROLL-UP DOOR
3/4"=1'-0"



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



NOTES: 02/27/2024 10:33:58 AM / DRAWING FILE: C:\Users\raiboswell\OneDrive\Documents\022121-4S-CORE.dwg / LAST MODIFIED: Wednesday, January 24, 2024 10:23:57 PM
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REGISTERED PROFESSIONAL ENGINEER
RALPH H. BOSWELL
No. 27855
2/7/2024

WASTEWATER TREATMENT PLANT EXPANSION FOR THE CITY OF RINCON EFFINGHAM COUNTY GA

MARK	DATE	BY	DESCRIPTION
02/27/2024	02/27/2024		EPI SUBMITTAL ISSUE FOR REVIEW

DESIGNED: 02/22/21
DRAWN: 02/21/21-AS-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 02-07-2024

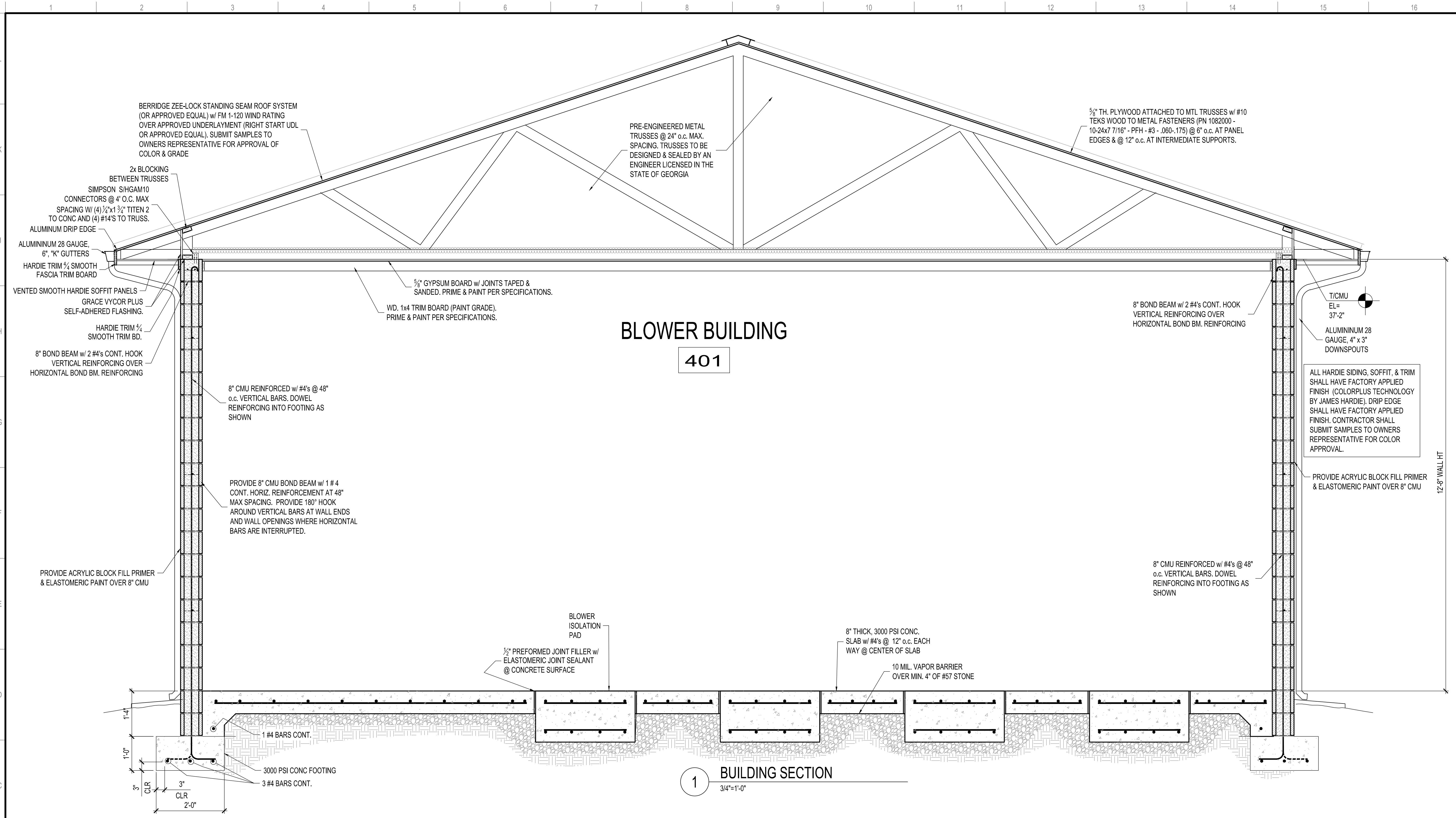
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BLOWER BUILDING

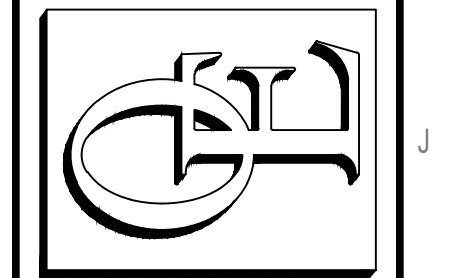
SECTIONS

4S-3

SHEET 3 OF 07



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WASTEWATER TREATMENT PLANT EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY GA

MARK	DATE	BY	DESCRIPTION
02/27/2024	02/27/2024	EPD	SUBMITTAL ISSUE FOR REVIEW

DESIGNED:	DRAWN:	CHECKED:	APPROVED:
02/27/2024	02/27/2024	02/27/2024	02/27/2024

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BLOWER BUILDING
SECTIONS
4S-4
SHEET 4 OF 07

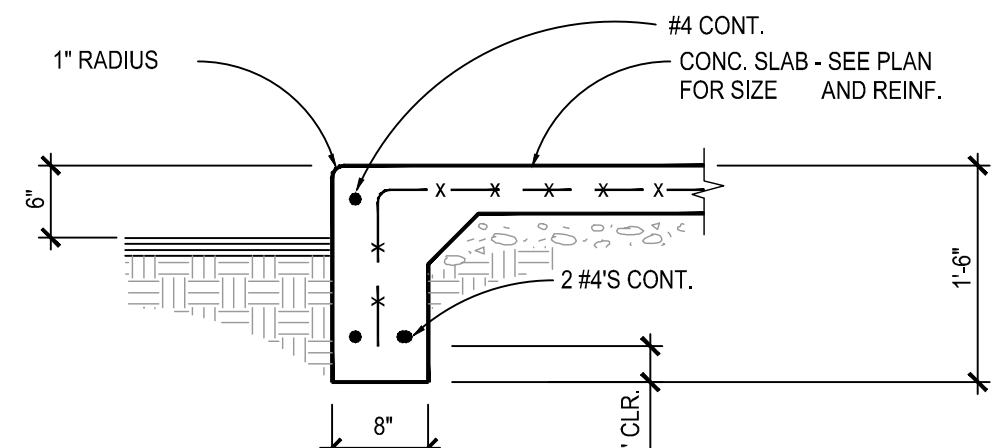
FINISH SCHEDULE				
ROOM NUMBER	FLOORS	WALLS	CEILING	REMARKS
401	SEALED CONCRETE	PAINTED CMU	PAINTED GYP. BOARD	

DOOR SCHEDULE								
DR. #	WIDTH	HEIGHT	THK.	TYPE	MATERIAL	FIRE LABEL	FRAME MTL.	REMARKS
401	10-0	8-0	5/8"	AA	GALV. STEEL		GALV. STEEL	FINISH SEE SPECS.
402	3-0	7-0	1 3/4"	BB	FRP		HOLLOW METAL	SEE NOTE FOR MFR.

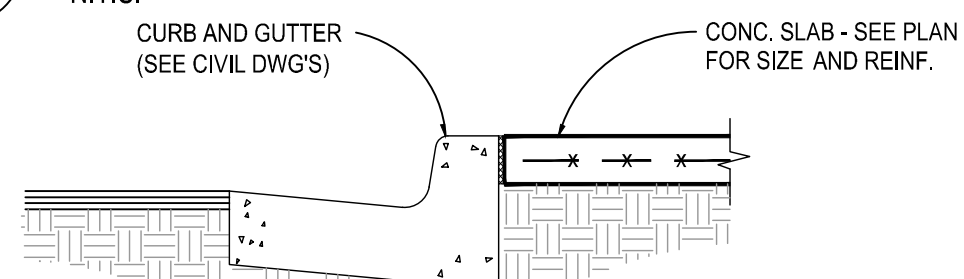
NOTE: DOOR #402 BY CHEM-PRUF DOOR CO. OR APPROVED EQUAL.

PLOTTED BY: RALPH H. BOSWELL, DATE: Monday, January 24, 2024 10:33:51 AM, PLOT FILE: C:\Users\rboswell\OneDrive\Documents\2024\114 Blower Building\wpw\40221214-Blower Building.dwg, LAST PLOTTED: Monday, January 24, 2024 10:33:51 AM

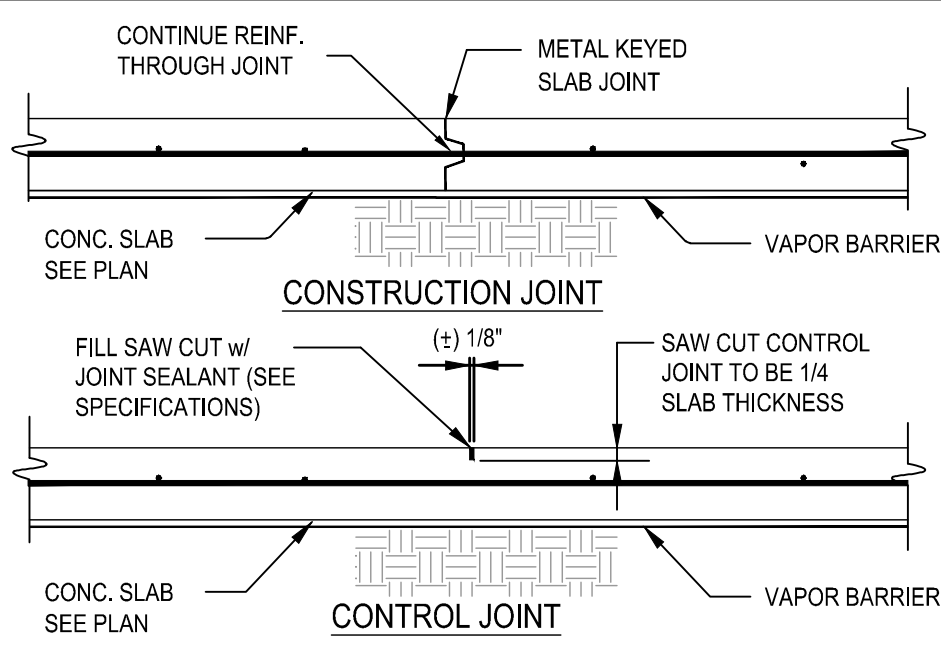
341 TURN-DOWN AT SIDEWALK
N.T.S.



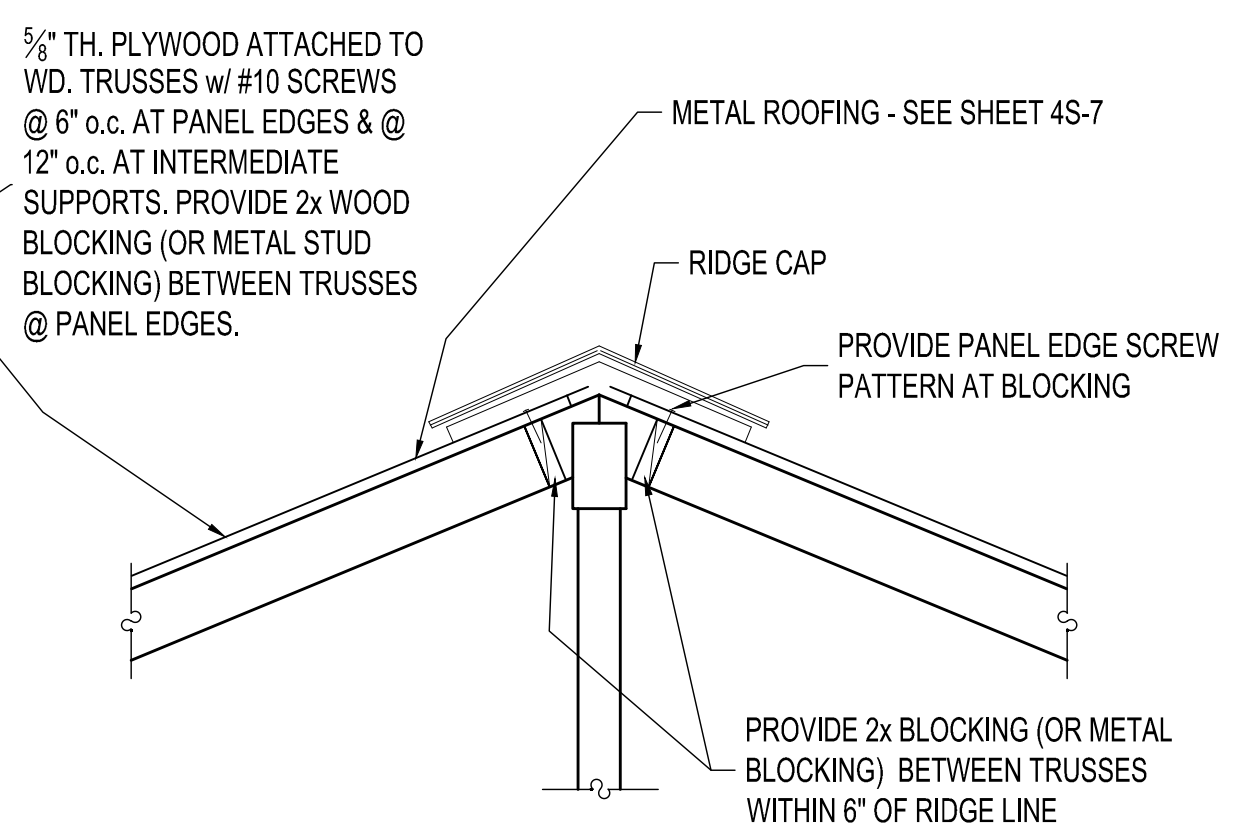
342 CURB AND GUTTER
N.T.S.



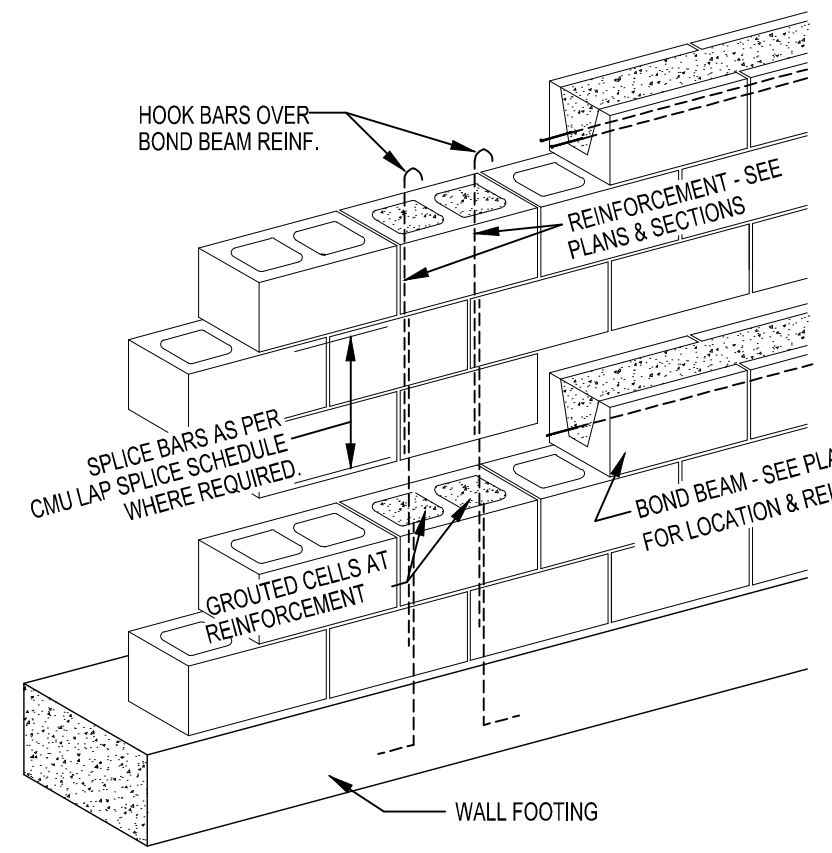
344 8" SLAB JOINT DETAILS
N.T.S.



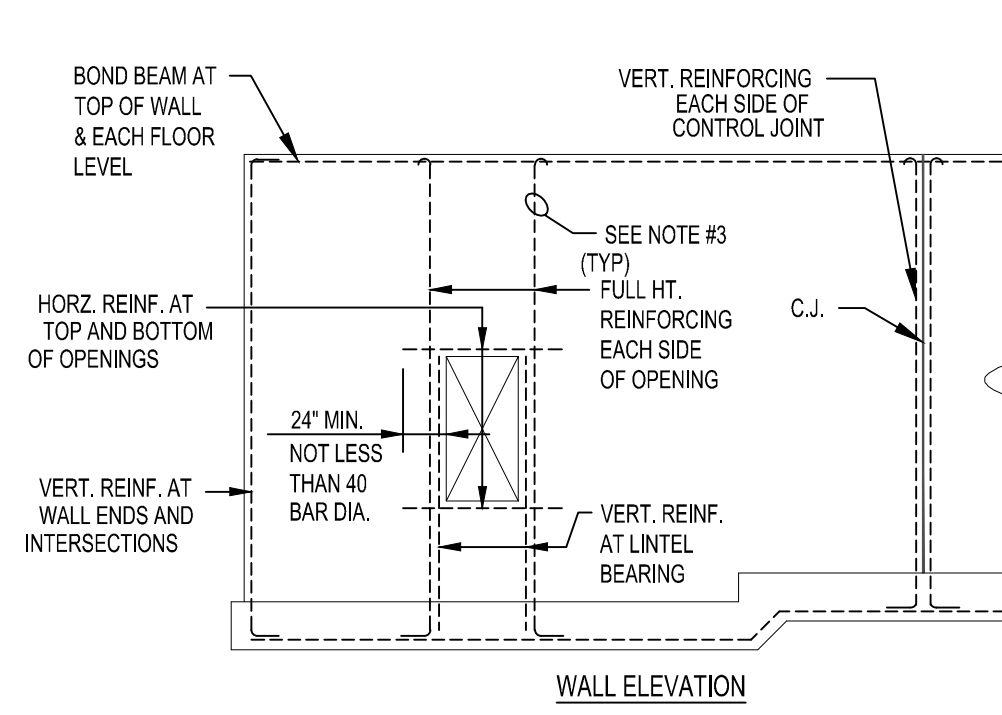
NOTES:
SAW CUT AS SOON AS SLAB CAN SUPPORT WEIGHT.
CONTROL JOINTS MAY BE REPLACED WITH CONSTRUCTION JOINTS.
CONTROL JOINTS SHALL BE SPACED AT NO MORE THAN 24'-0" O.C.
SLAB AREAS BOUNDED BY THESE JOINTS, SHALL HAVE THE LENGTH NO MORE THAN 2x THE WIDTH.



368 TRUSS RIDGE DETAIL
N.T.S.

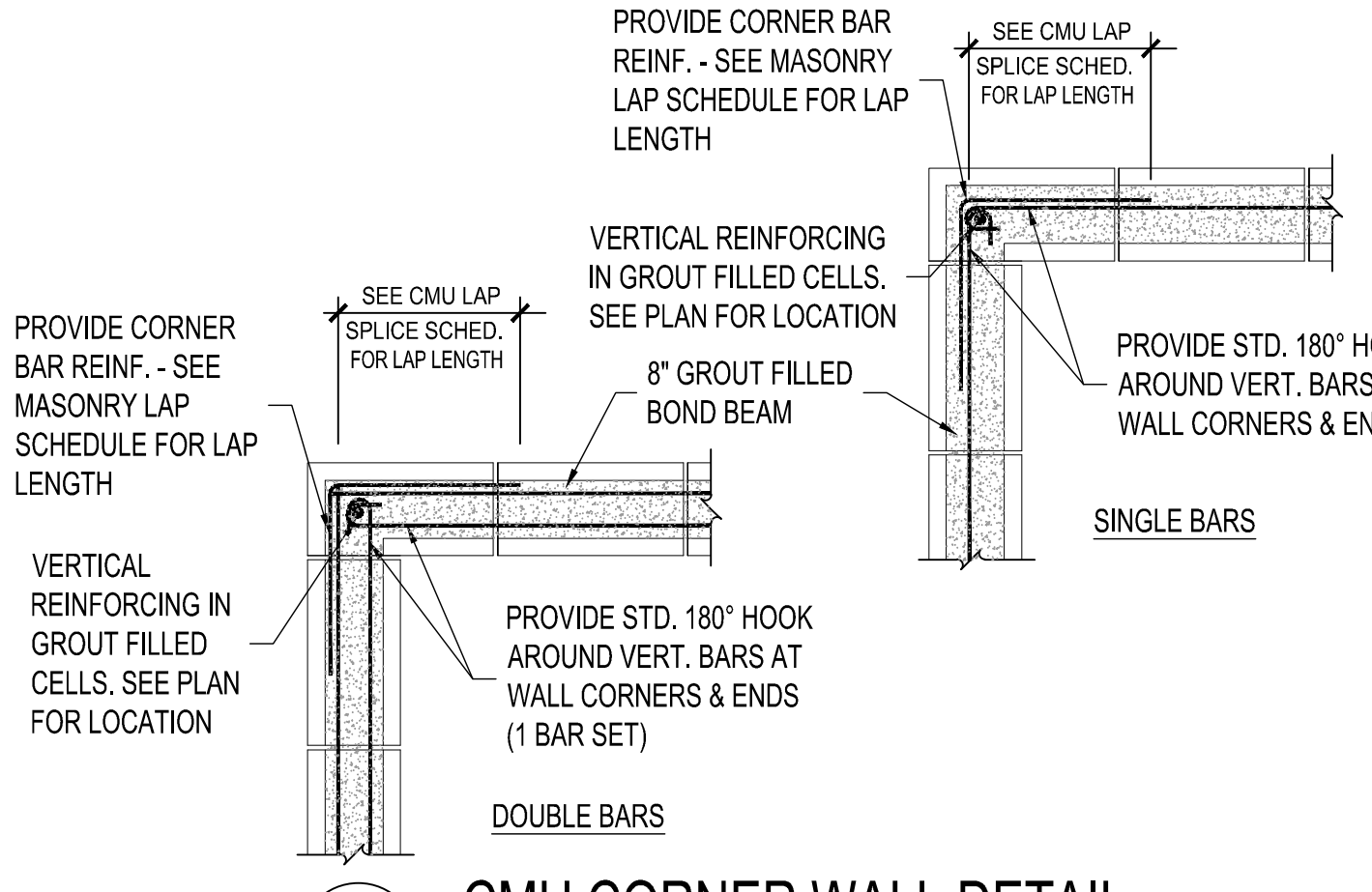


370 REINFORCED MASONRY CONSTRUCTION & REINFORCING
N.T.S.

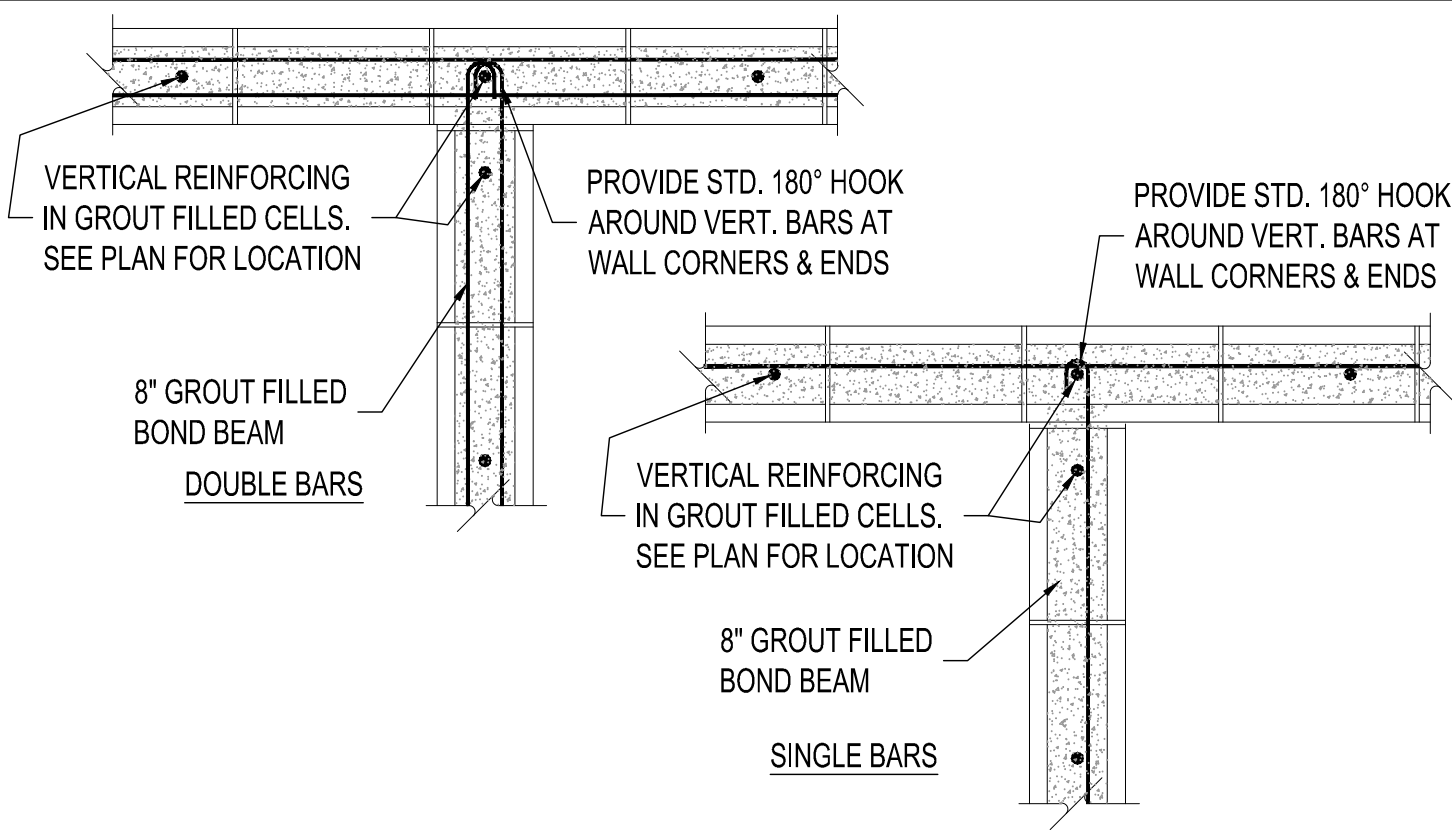


LOW LIFT GROUTING PROCEDURE:
1. CONSTRUCT WALL TO HEIGHT OF 4'-0".
2. ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
3. INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.
4. LIGHTLY WET THE UNITS AND FILL CELLS TO 1 1/2" BELOW TOP COURSE.
5. DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING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

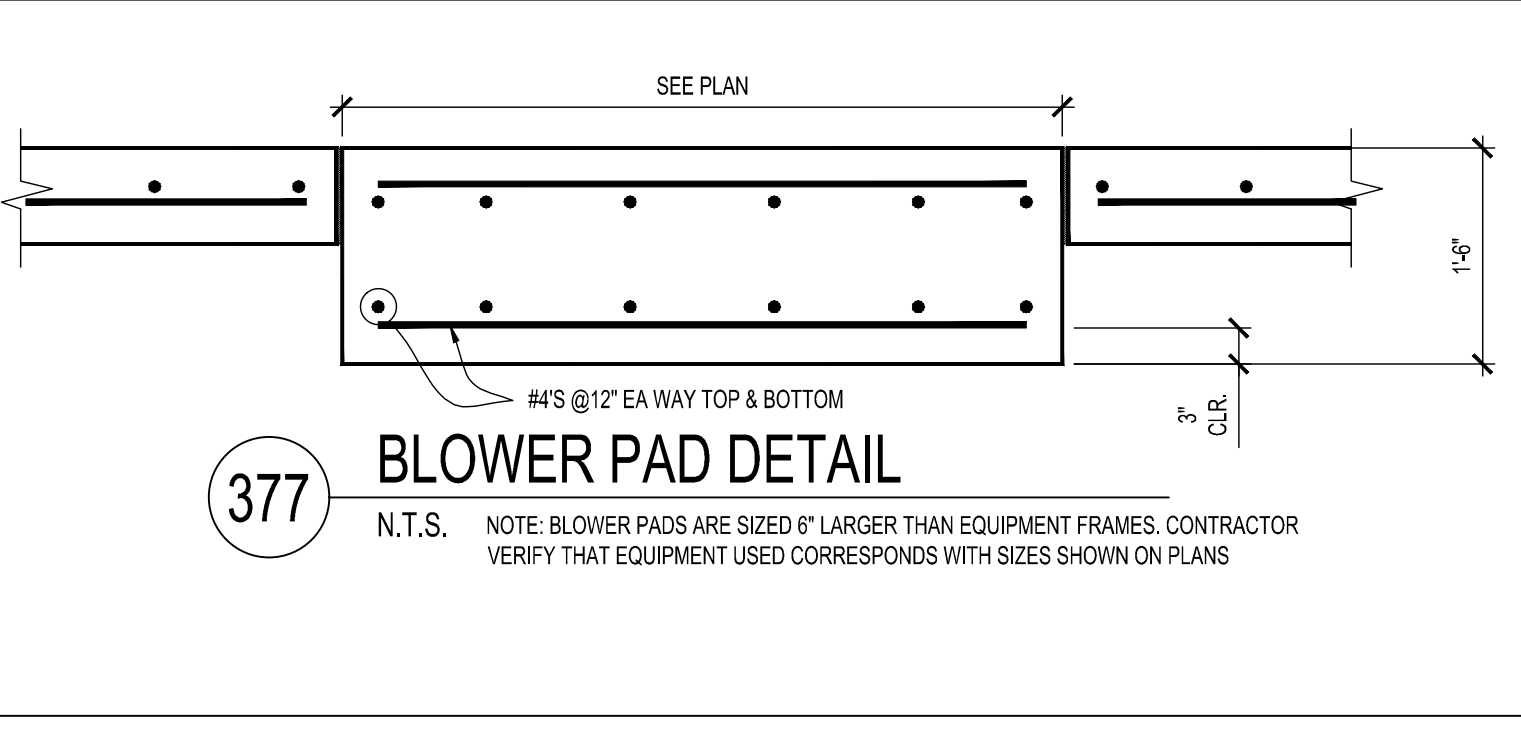
ELEVATION NOTES:
1. REINFORCING SHOWN SHALL BE MINIMUM #4 RE-BAR UNLESS SHOWN OTHERWISE ON PLANS AND DETAILS.
2. BOND BEAM REINFORCING SHOWN SHALL BE DISCONTINUED AT CONTROL JOINTS.
3. PROVIDE 4" x 4" OPENING IN BOTTOM OF BOND BEAM FOR PASSAGE OF VERTICAL REINFORCING IN CMU BOND BEAM. PROVIDE 1" HOLE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



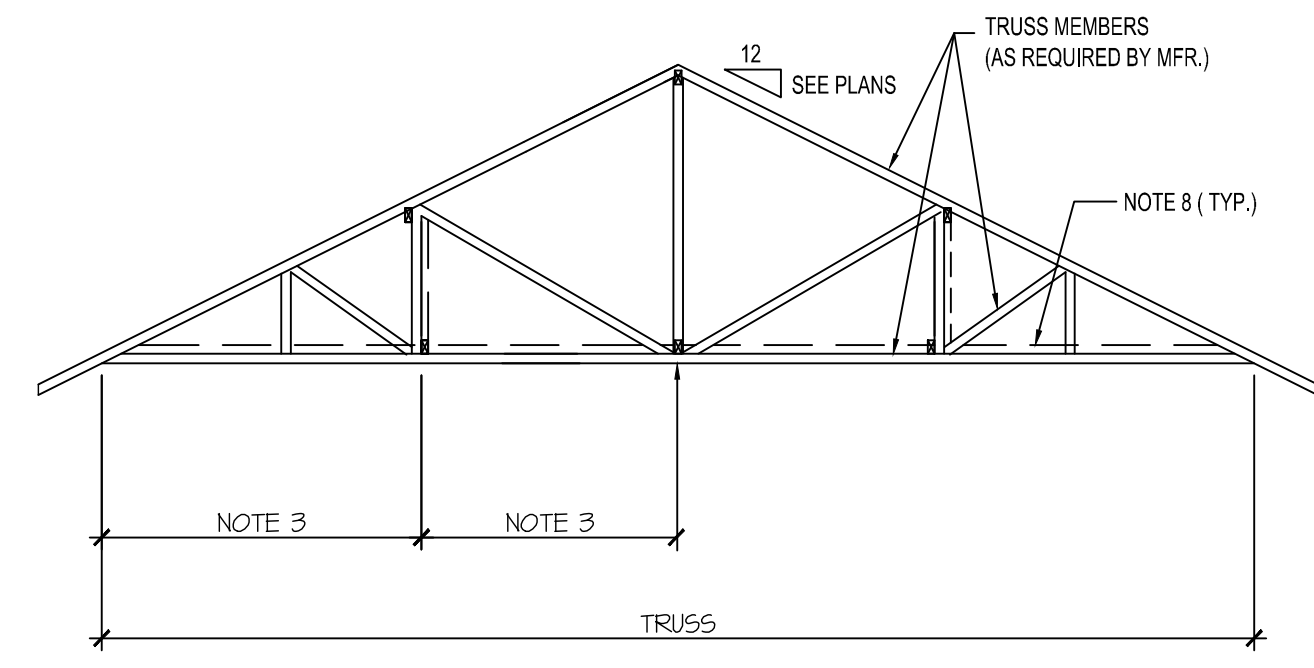
375 CMU CORNER WALL DETAIL
N.T.S.



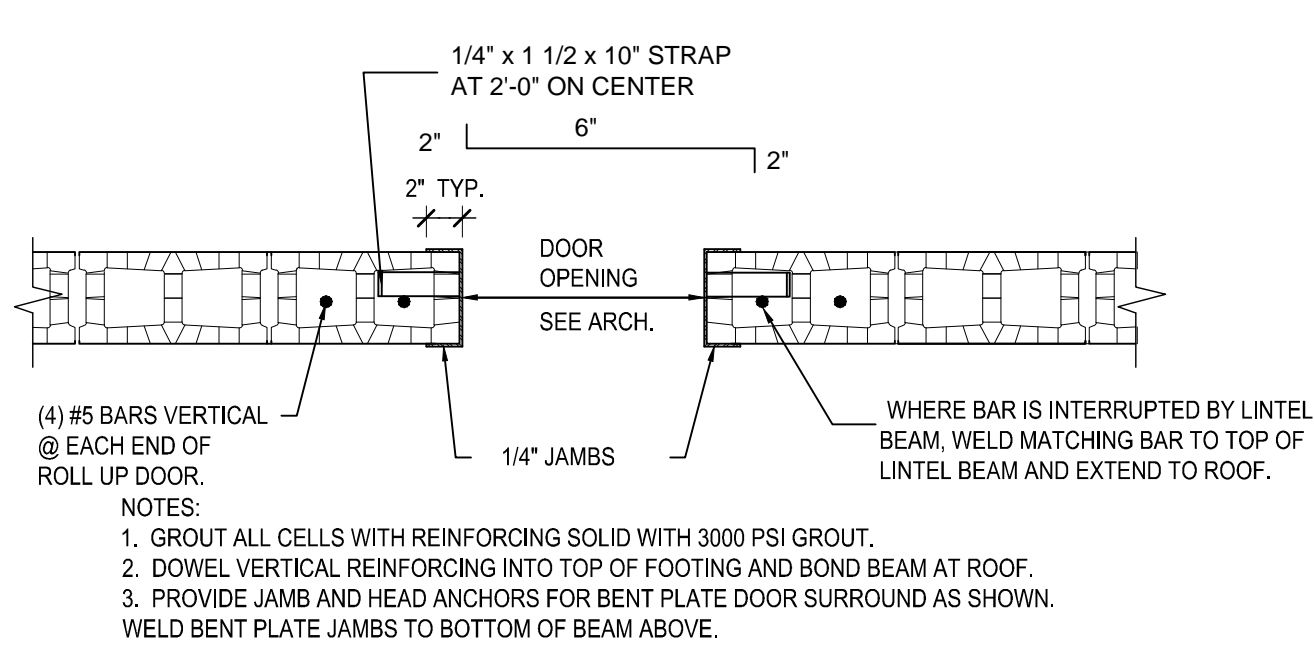
376 CMU INTERSECTING WALL DETAIL
N.T.S.



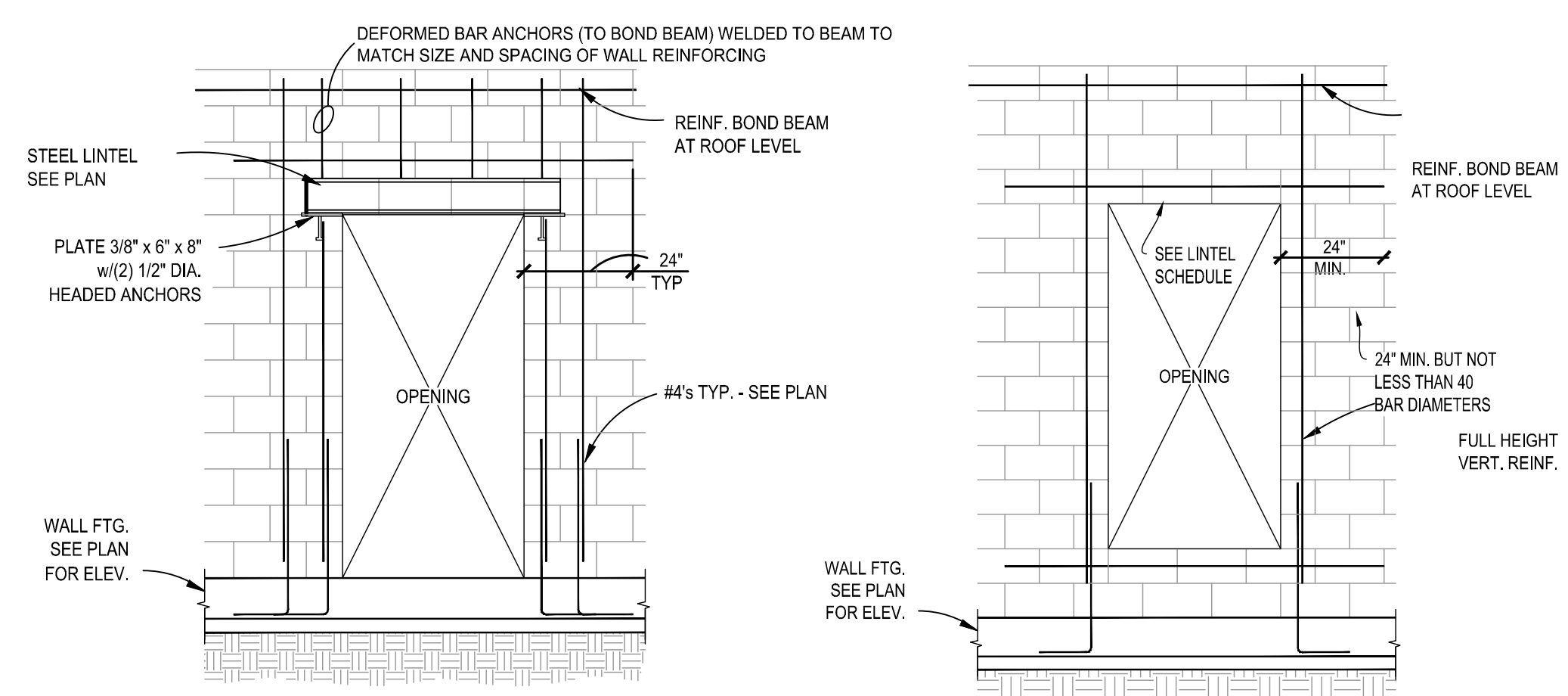
377 BLOWER PAD DETAIL
N.T.S.



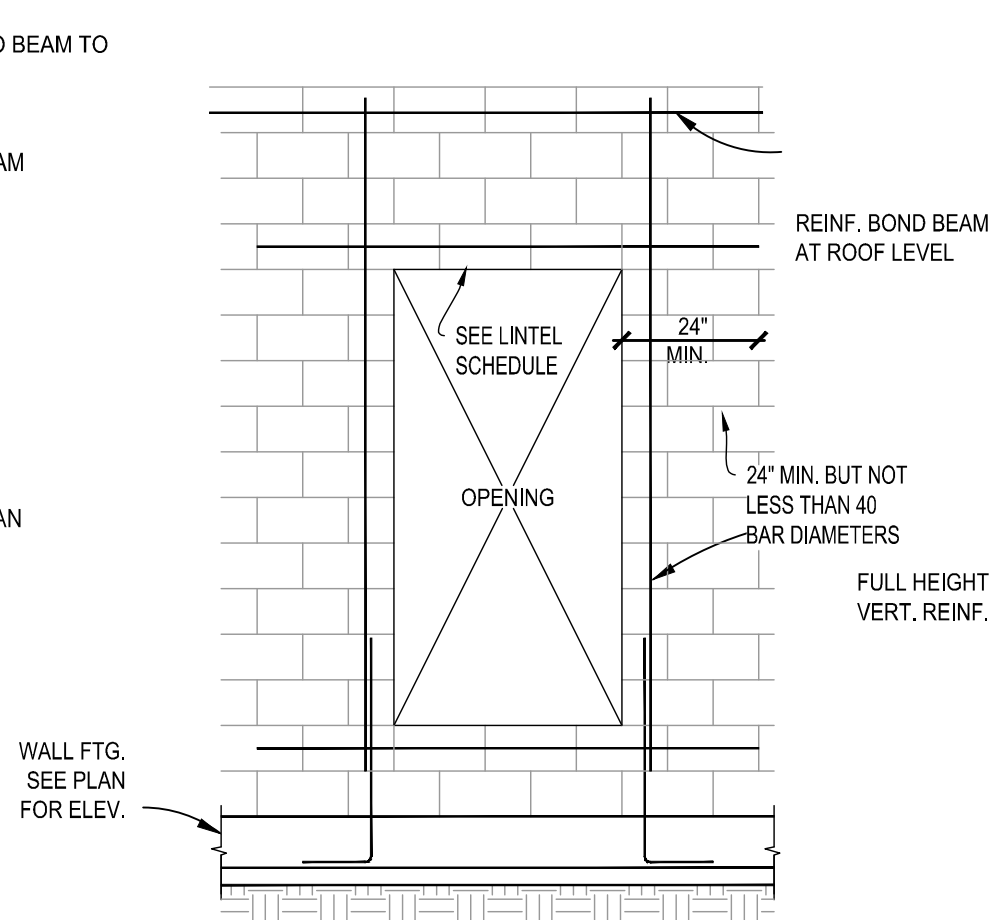
380 PERMANENT TRUSS BRACING DETAIL
N.T.S.



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

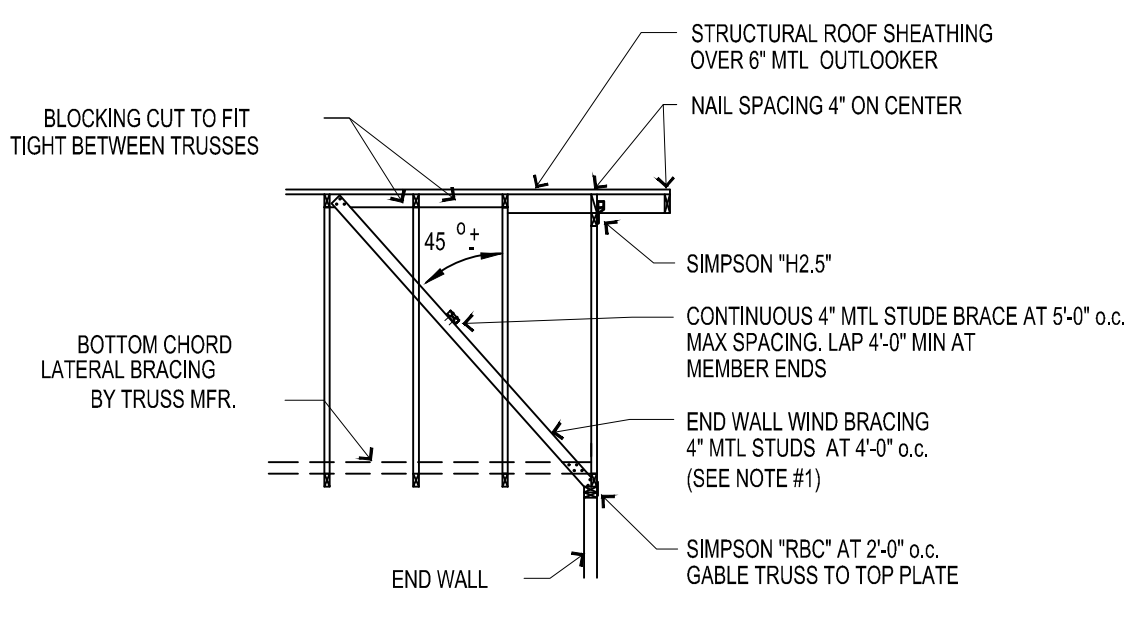


373 WALL REINFORCING @ OPENING W/ STEEL LINTEL
N.T.S.



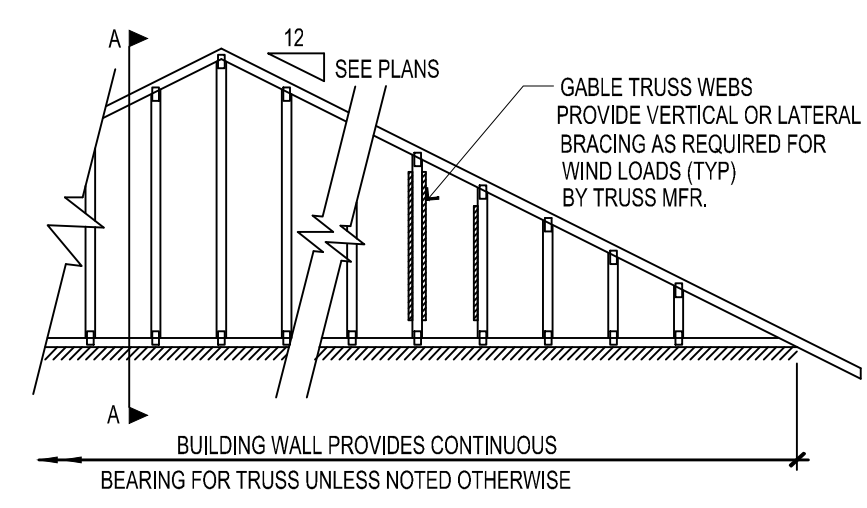
373b WALL REINF. @ OPENING
N.T.S.

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 APPROPRIATE SCREWS 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.



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

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REGISTERED PROFESSIONAL ENGINEER
No. 27855
RALPH H. BOSWELL
2/7/2024

WASTEWATER TREATMENT PLANT
EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY GA

MARK	DATE	BY	DESCRIPTION
02-07-2024	02-07-2024	RF	ISSUE FOR REVIEW

DESIGNED: 02/21/21
DRAWN: 02/21/21-AS-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 02-07-2024
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BLOWER BUILDING
DETAILS
4S-5
SHEET 5 OF 07

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 PLOTTED BY: RALPH BOSWELL DATE: 02/07/2024 10:33:11 AM (DRAWING FILE: C:\Users\rboswell\OneDrive\Documents\2024\11-Blower Building\wpb\022121-4S-CORE.dwg) LAST MODIFIED: Wednesday, January 24, 2024 10:23:55 PM

DOOR SCHEDULE

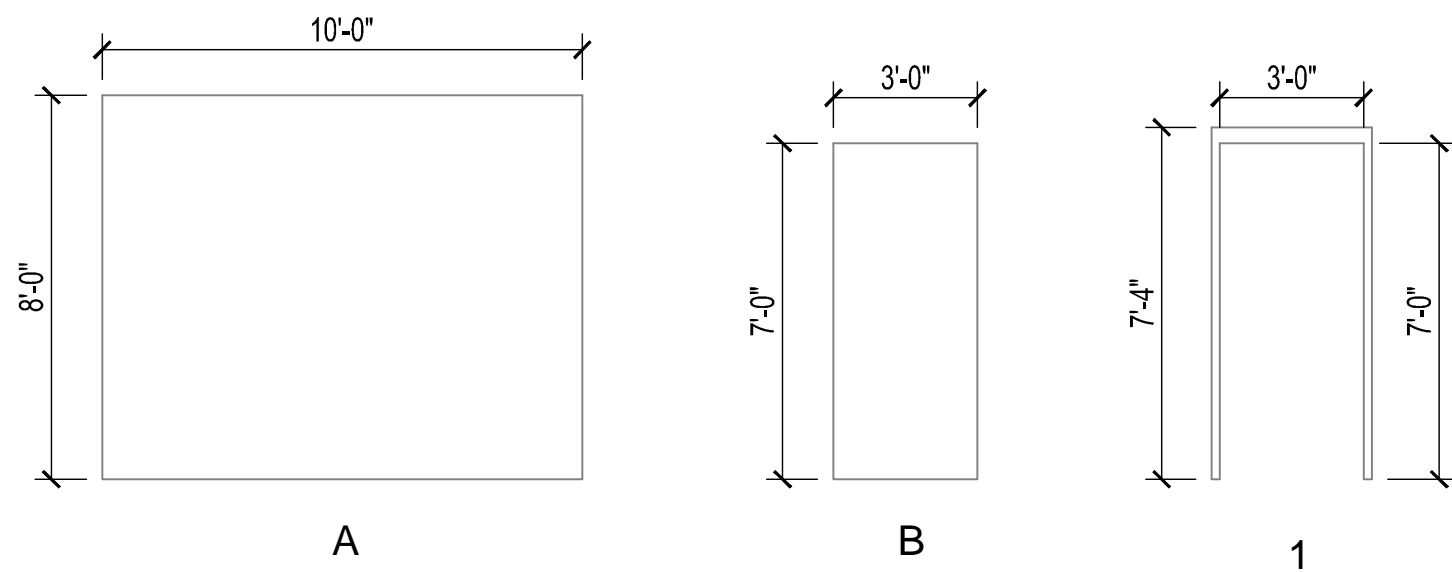
DOOR NUMBER	DOOR LOCATION	DOORS					FRAME							LABEL	HDW. SET (NOTE 1)	REMARKS	DOOR NUMBER		
		TYPE	WIDTH	HEIGHT	THICK	MAT'L	FINISH	SIZE	TYPE	MATERIAL	FINISH	HEAD	JAMB					THR.	
401	BLOWER BUILDING	A	10'-0"	8'-0"	-	STL	PREFINISHED	-	-	-	3/4S-3	372/4S-5	-	-	-	-	-	-	401
402	BLOWER BUILDING	B	3'-0"	7'-0"	1-3/4"	FIBERGLASS	PAINT	7-1/4"	1	H.M.	PAINT	H-1/4S-6	J-1/4S-6	-	-	-	45 MIN.	1	402

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.

ROOM FINISH SCHEDULE

KEY	FLOOR	BASE	WALLS	CEILING	NOTES
X	SEALED CONCRETE	NONE	PAINTED CMU, P-1	PAINTED GYPSUM BD	HEIGHT
401	BLOWER ROOM	X	X	X	12'-8"

DOOR AND FRAME TYPES

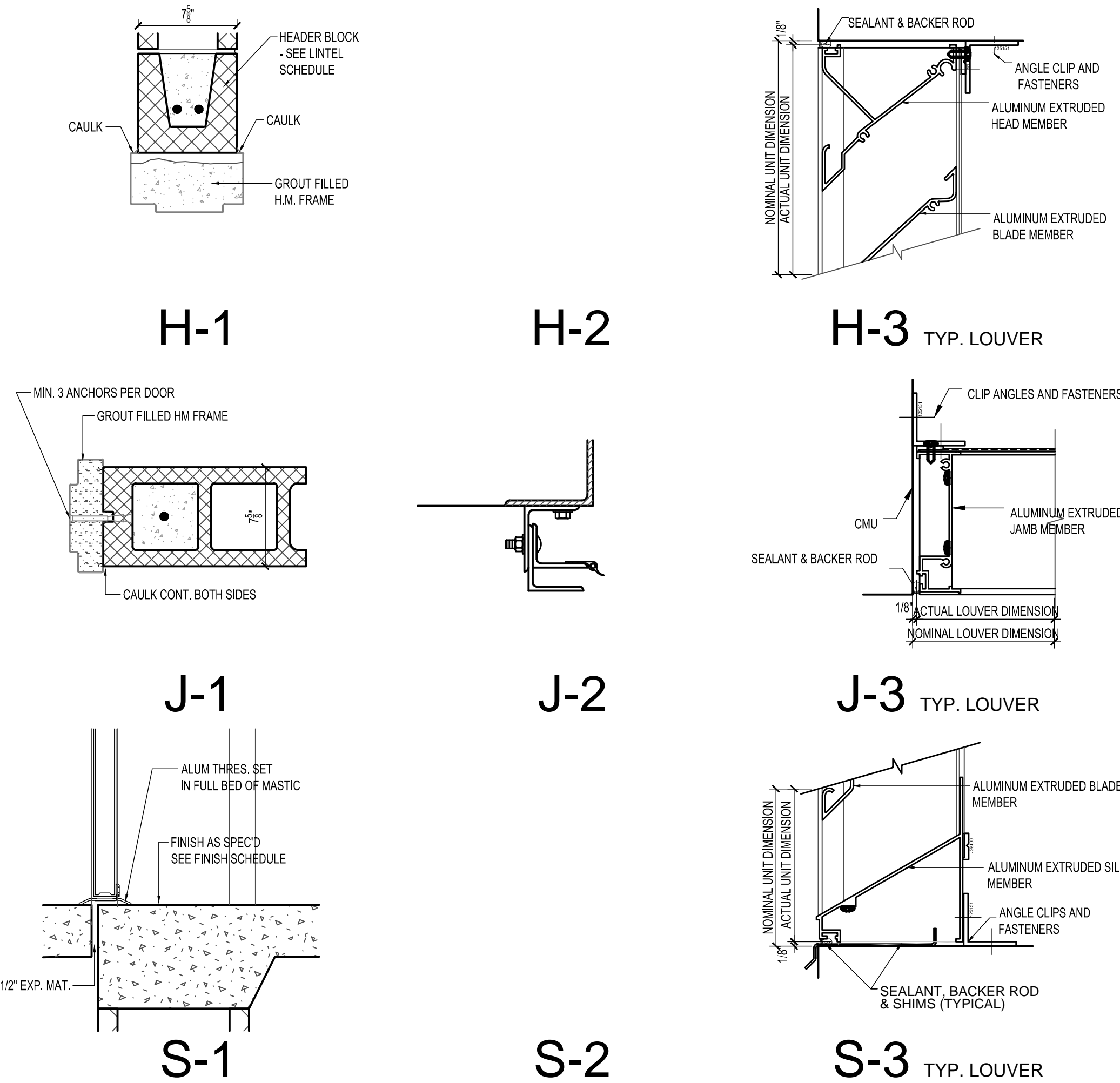


ROOM FINISH NOTES

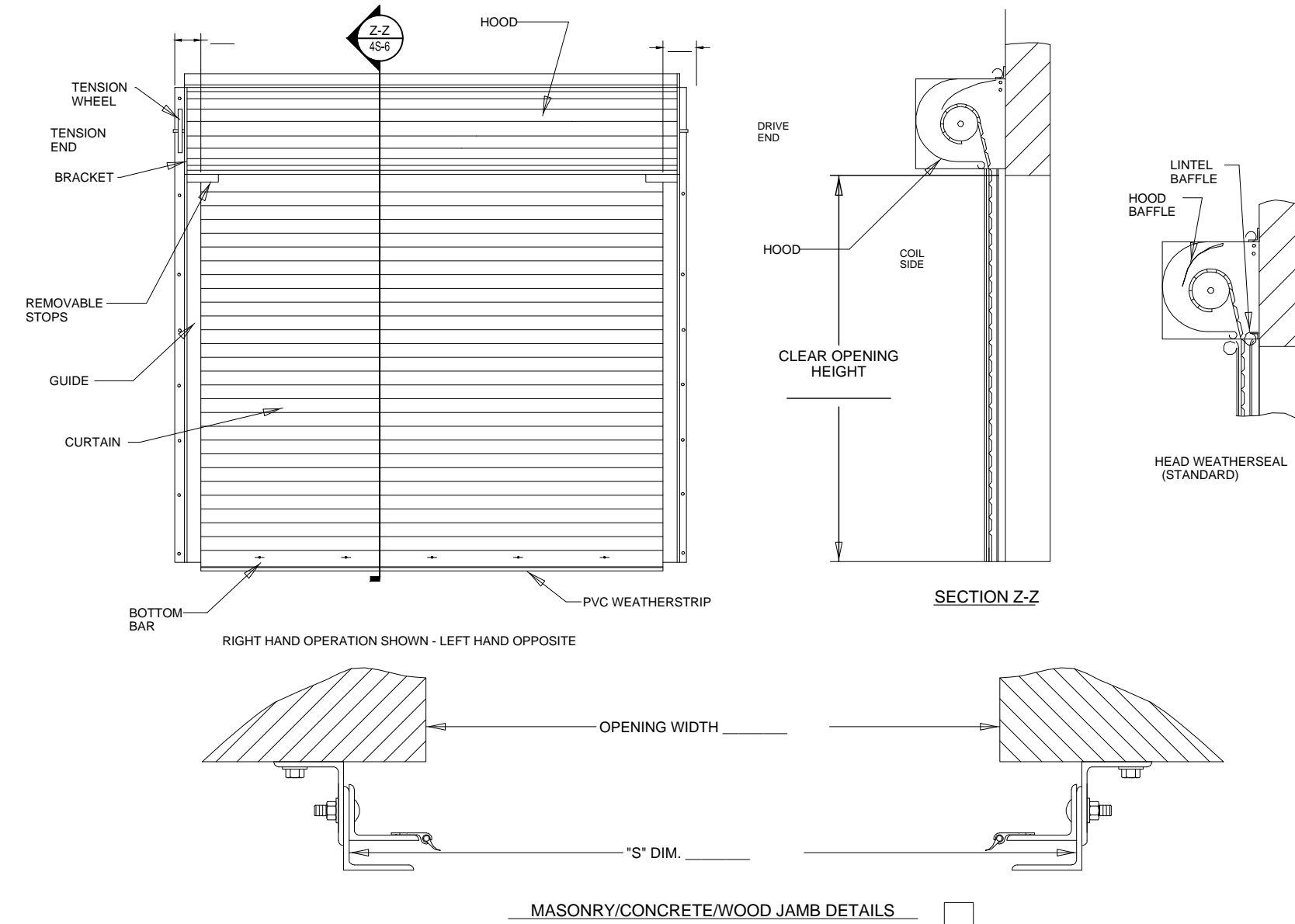
LIST OF FINISHES

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

DOOR AND LOUVER DETAILS



ROLL UP DOOR DETAIL



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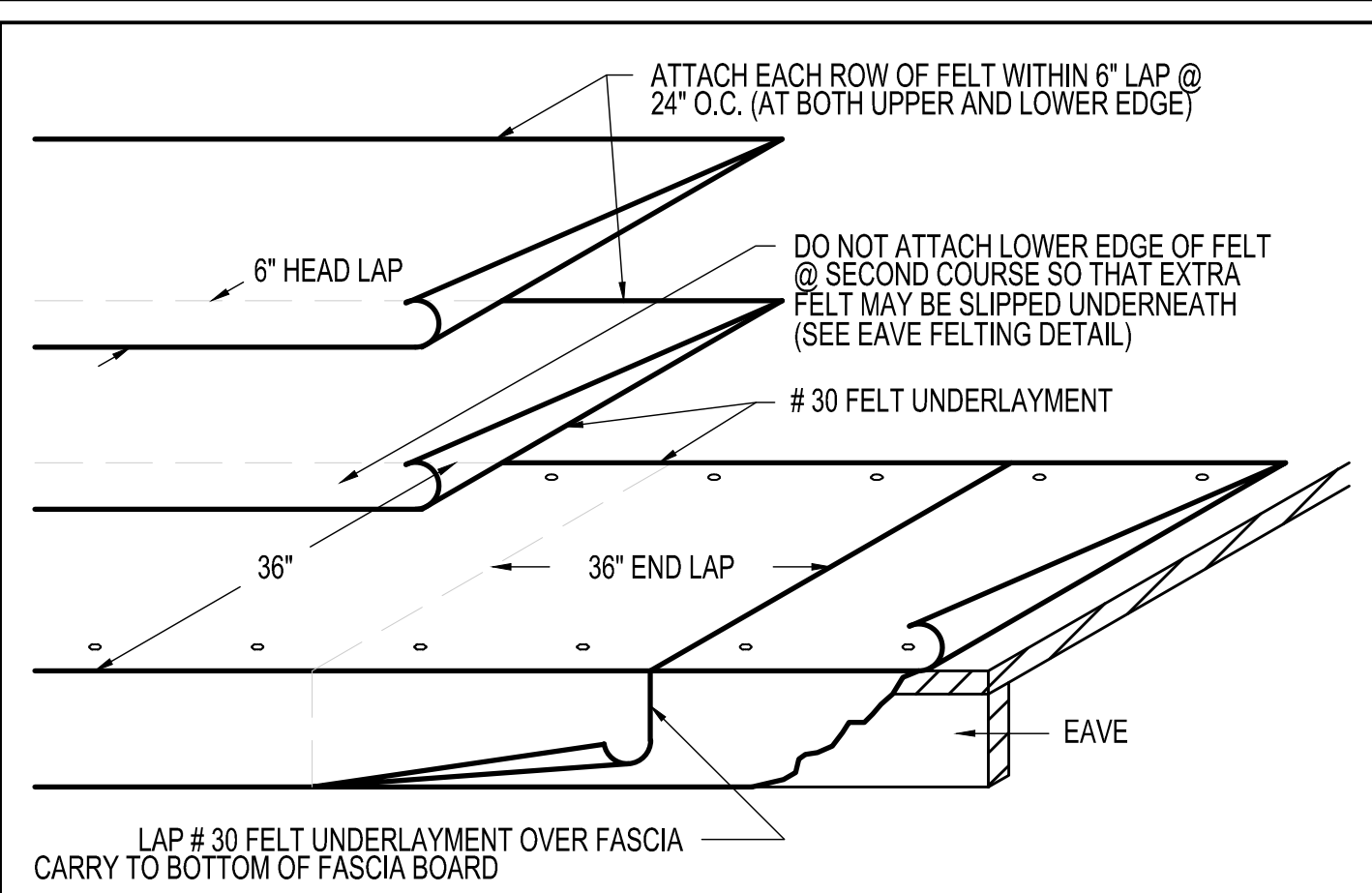
WASTEWATER TREATMENT PLANT EXPANSION
 FOR THE CITY OF RINCON
 EFFINGHAM COUNTY GA

DESIGNED: 02/21/21
 FILE NAME: 02/21/21-4S-CORE
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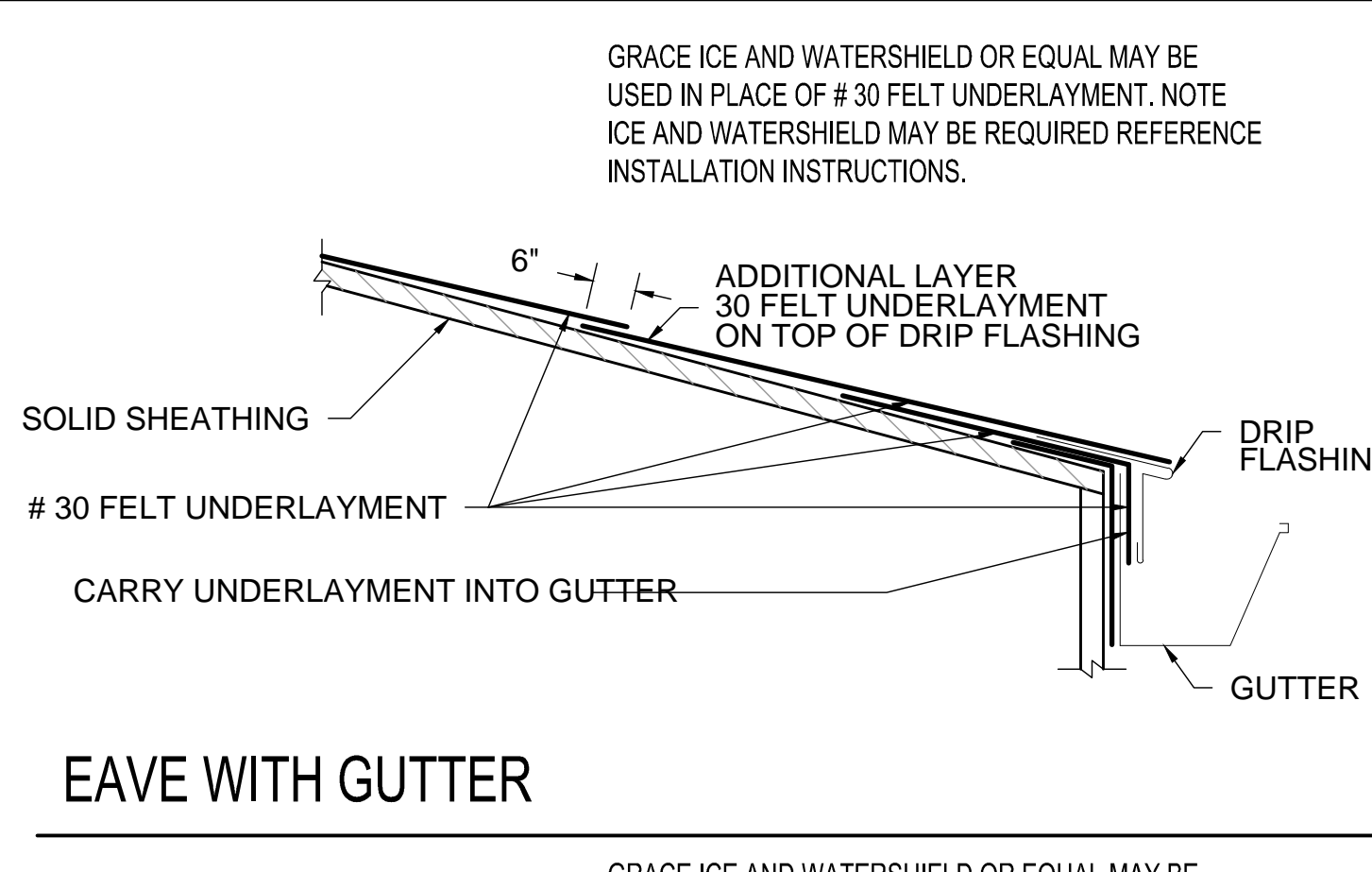
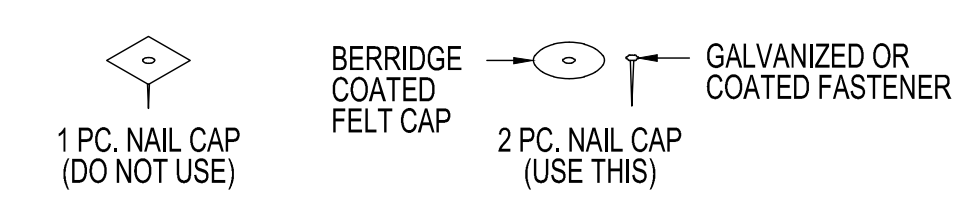
MARK	DATE	BY	DESCRIPTION
02/27/2024	02/27/2024	EPD	INITIAL ISSUE FOR REVIEW

BLOWER BUILDING
 DETAILS & SCHEDULES
 4S-6
 SHEET 6 OF 07

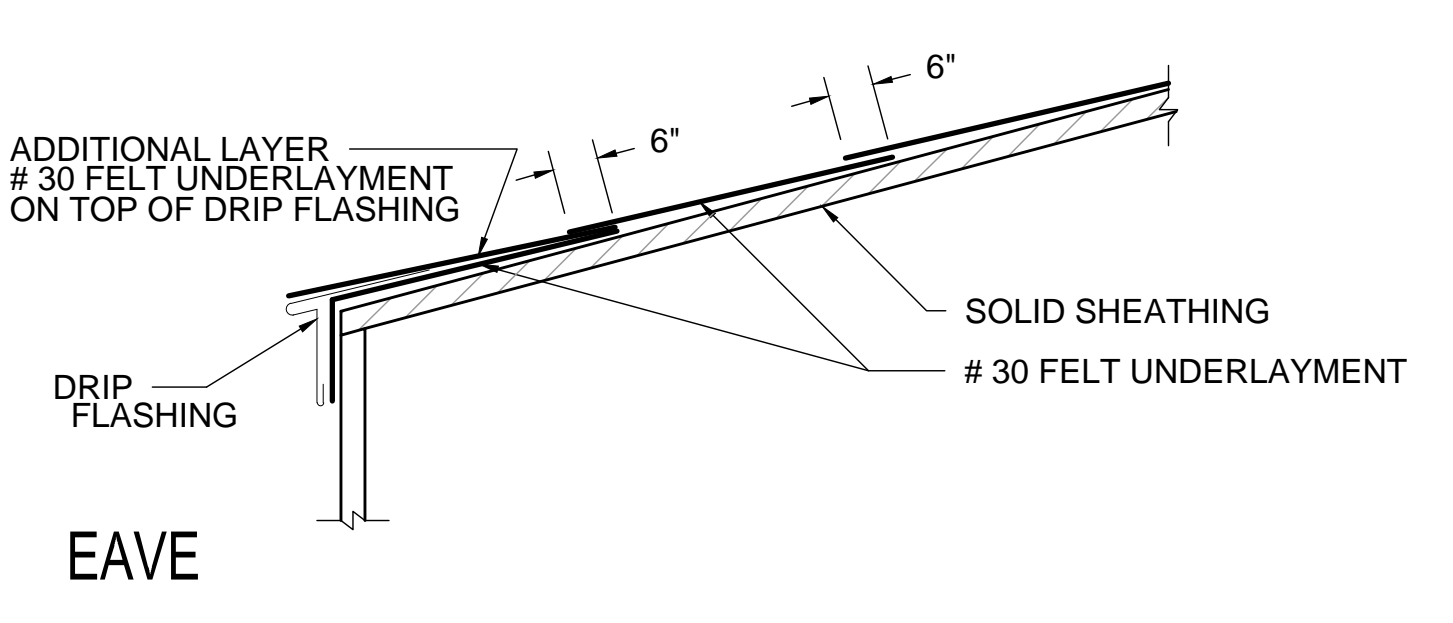
PLOTTED BY: RALPH BOSWELL DATE: Monday, January 24, 2024 10:33:13 AM LAYOUT FILE: C:\Users\oscar\Documents\2024\14-Blower Building\work\022121-4S-CORE.dwg LAST MODIFIED: Wednesday, January 24, 2024 10:23:53 PM



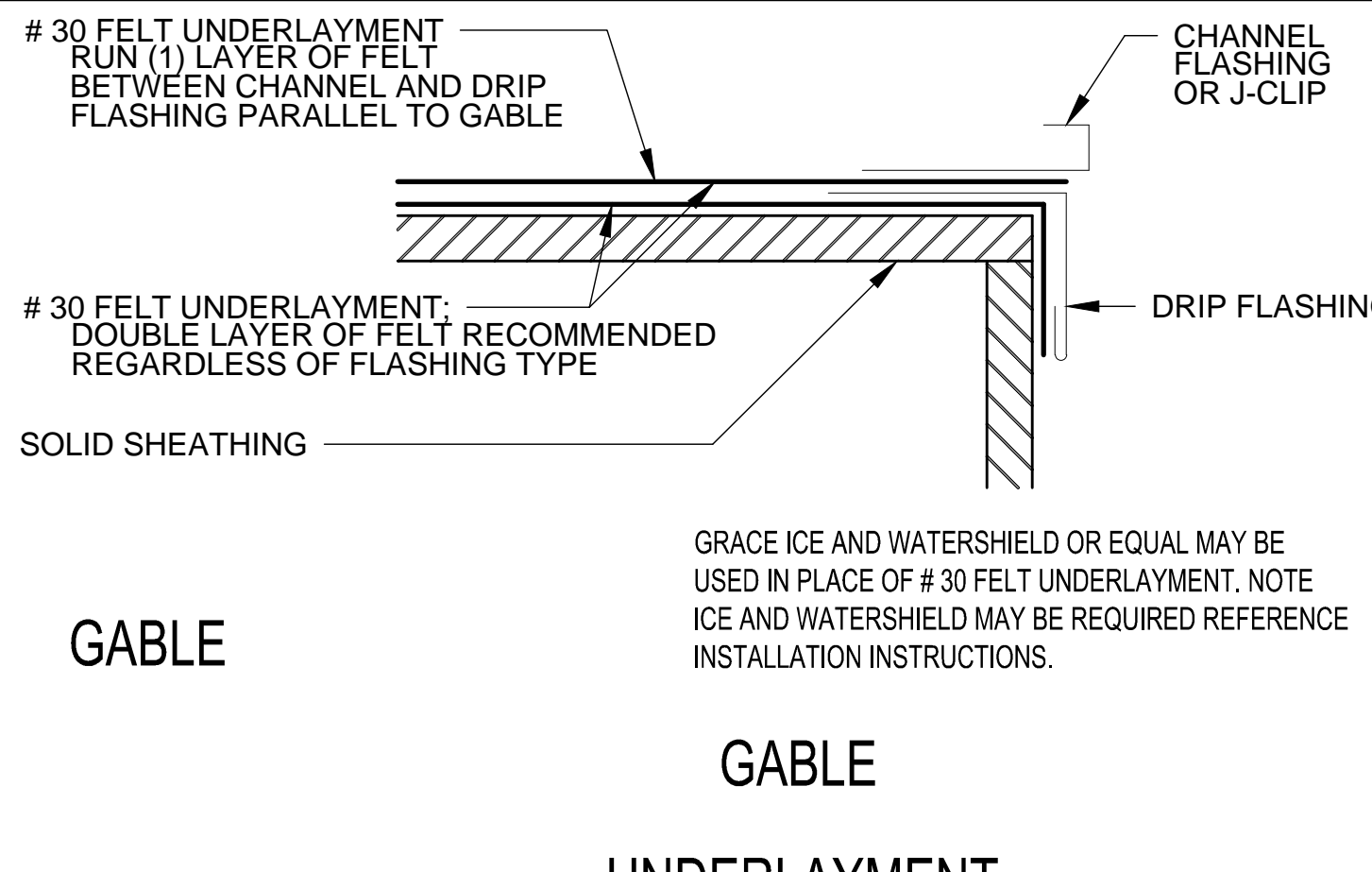
- CLEAN ROOF SURFACE OF ALL OBJECTS WHICH MAY PUNCTURE OR TEAR FELT UNDERLAYMENT.
- ATTACH FELT UNDERLAYMENT TO DECK BELOW USING COATED FELT CAPS. FASTENERS MUST BE TOTALLY FLUSH WITH SUBSTRATE. DO NOT USE ONE PIECE NAIL CAPS, AS THESE WILL "READ THROUGH" THE SURFACE.
- DO NOT FASTEN LOWER EDGE OF FELT @ SECOND COURSE (SEE ABOVE ILLUSTRATION). ALWAYS RUN FELT UNDERLAYMENT HORIZONTALLY STARTING @ THE EAVE AND LAP SINGLE 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.



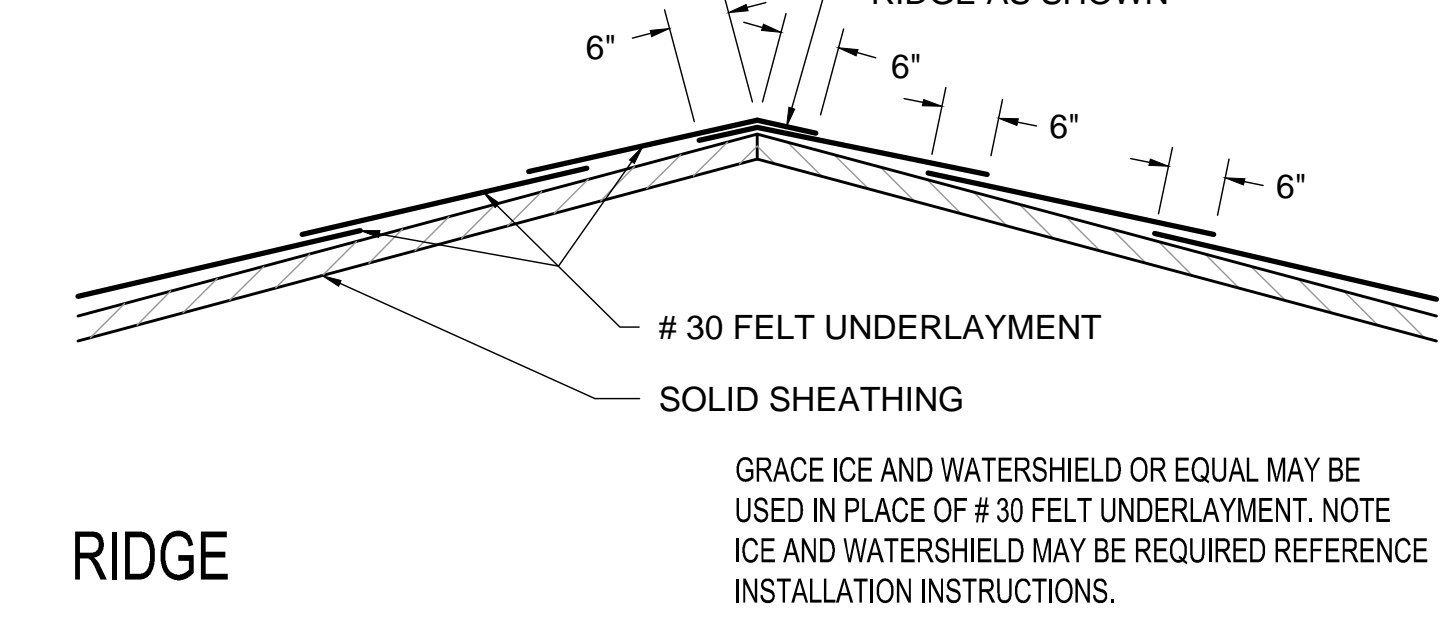
GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



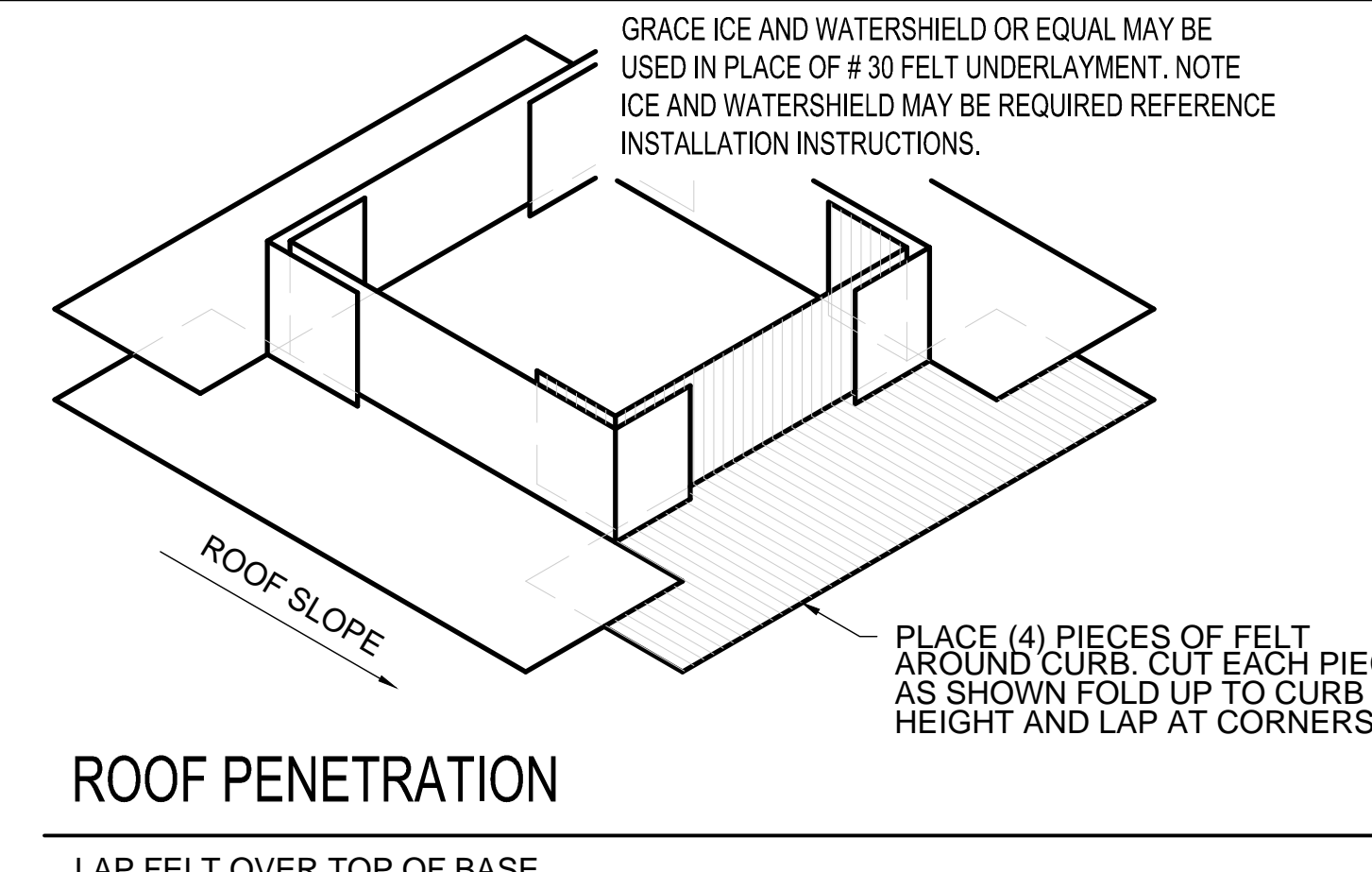
EAVE WITH GUTTER UNDERLAYMENT



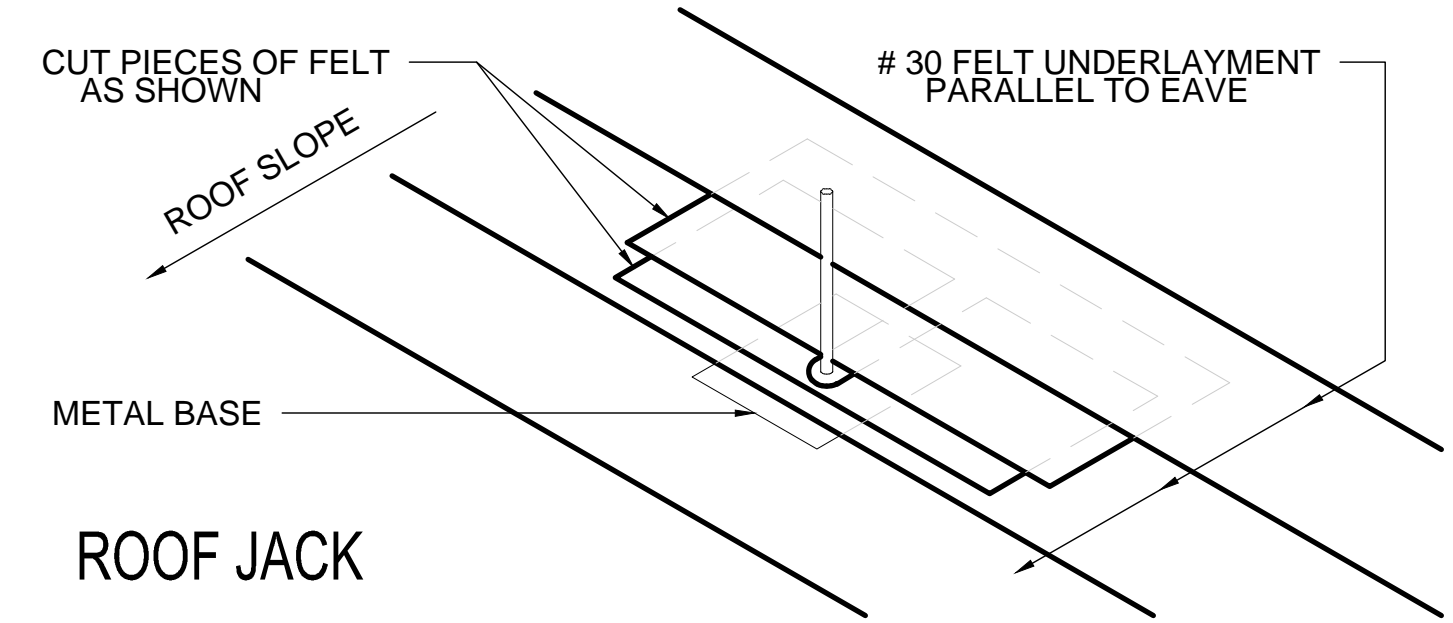
GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



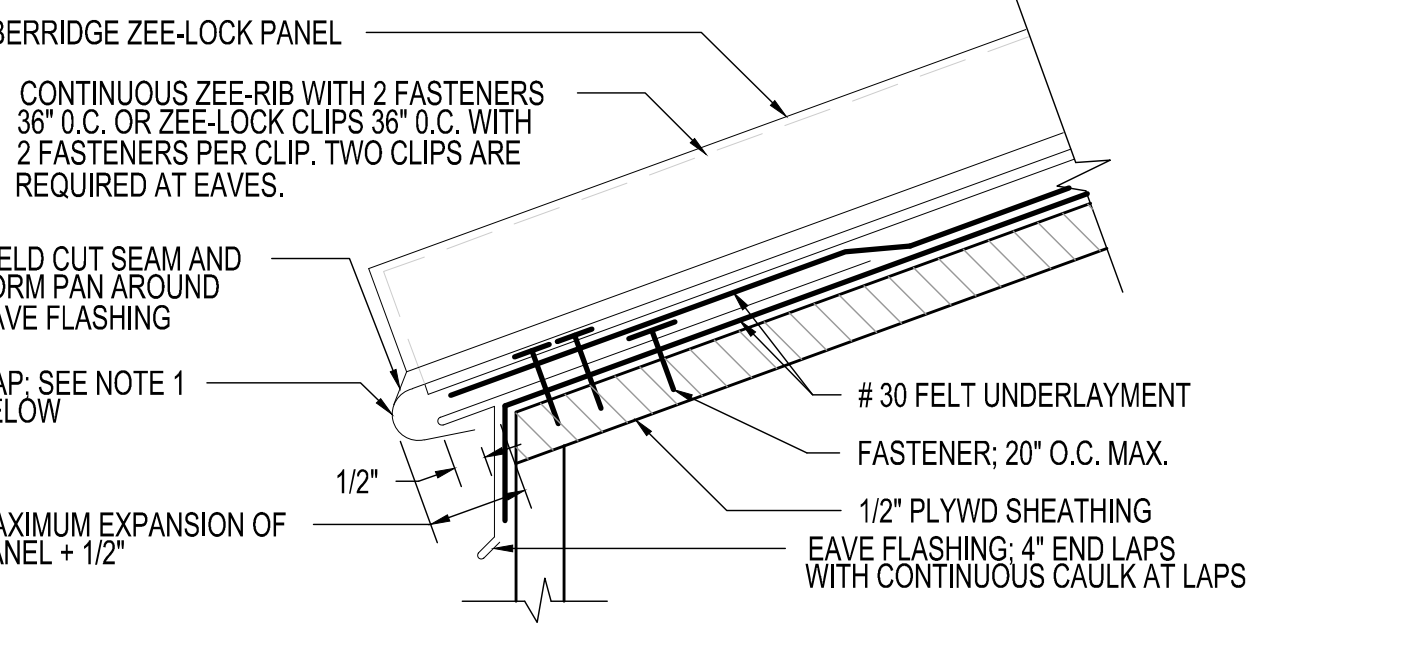
GABLE UNDERLAYMENT



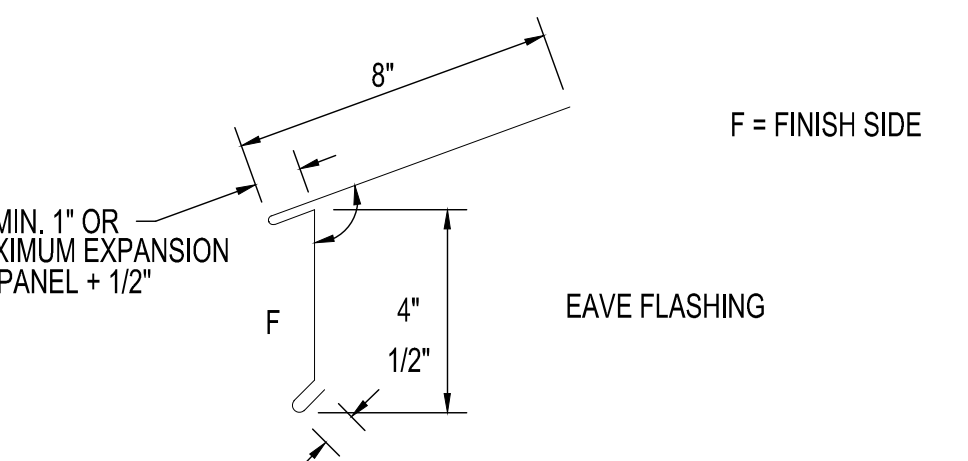
GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



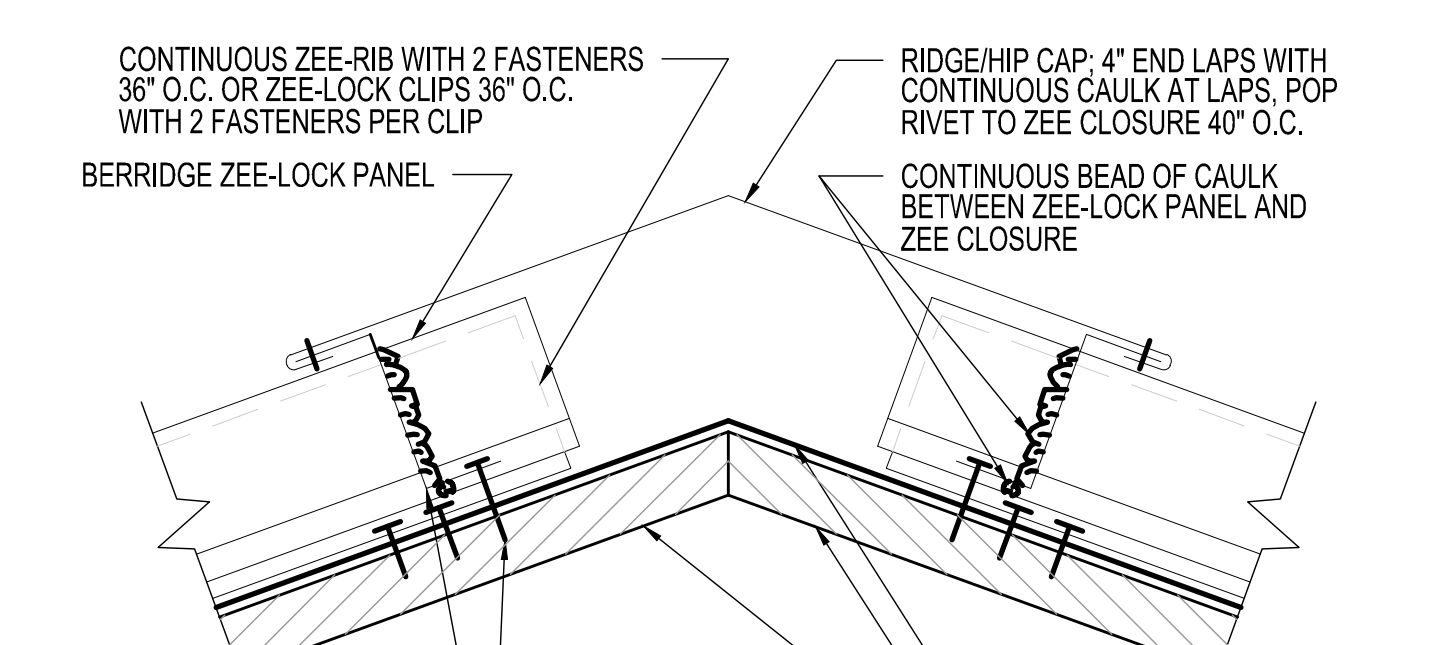
ROOF PENETRATION UNDERLAYMENT



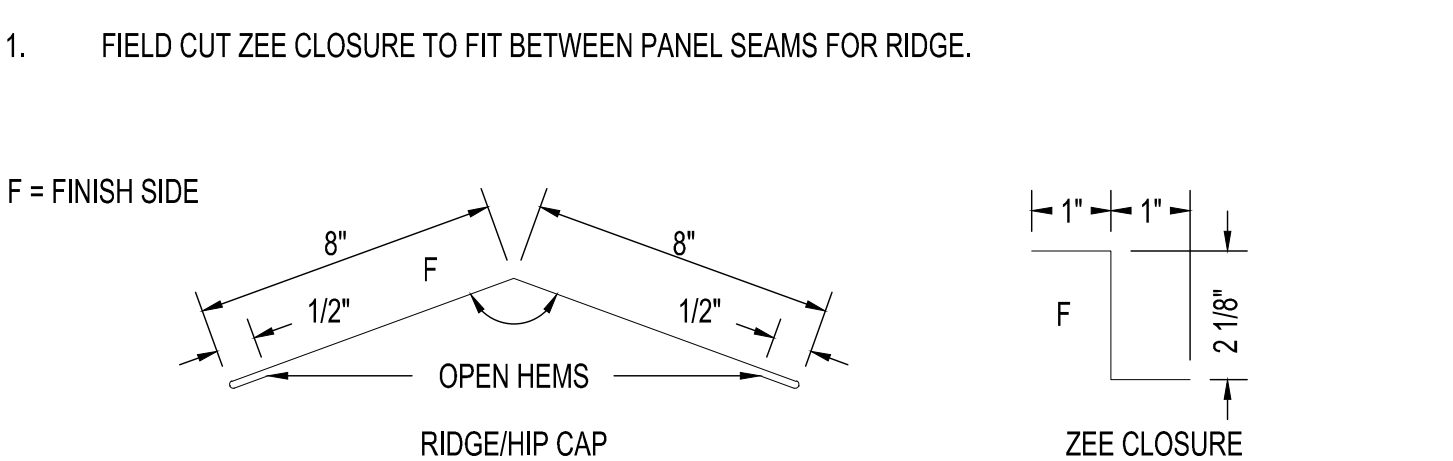
- THE "GAP" BETWEEN EAVE FLASHING AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION OF PANELS. NOTE 1/2" OF PAN MUST BE ENGAGED WITH EAVE FLASHING WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH.
- GAP BETWEEN EAVE FLASHING AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE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



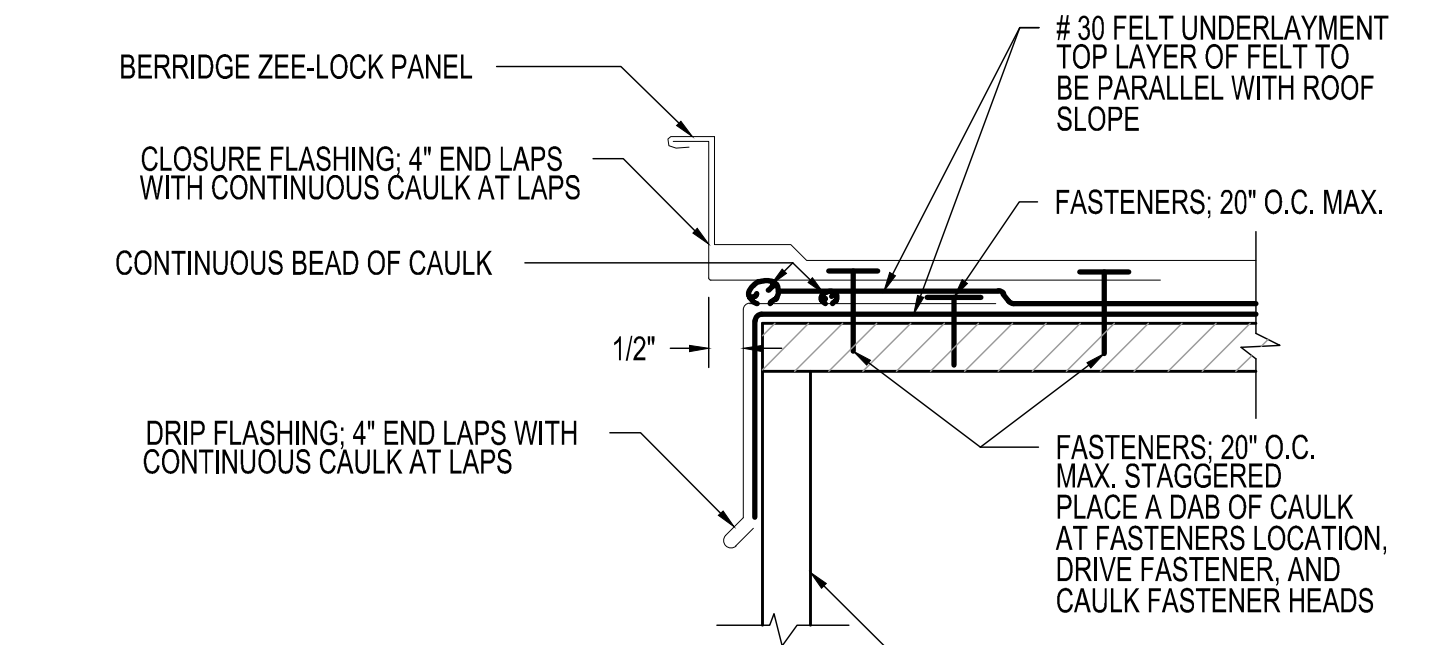
EAVE DETAIL



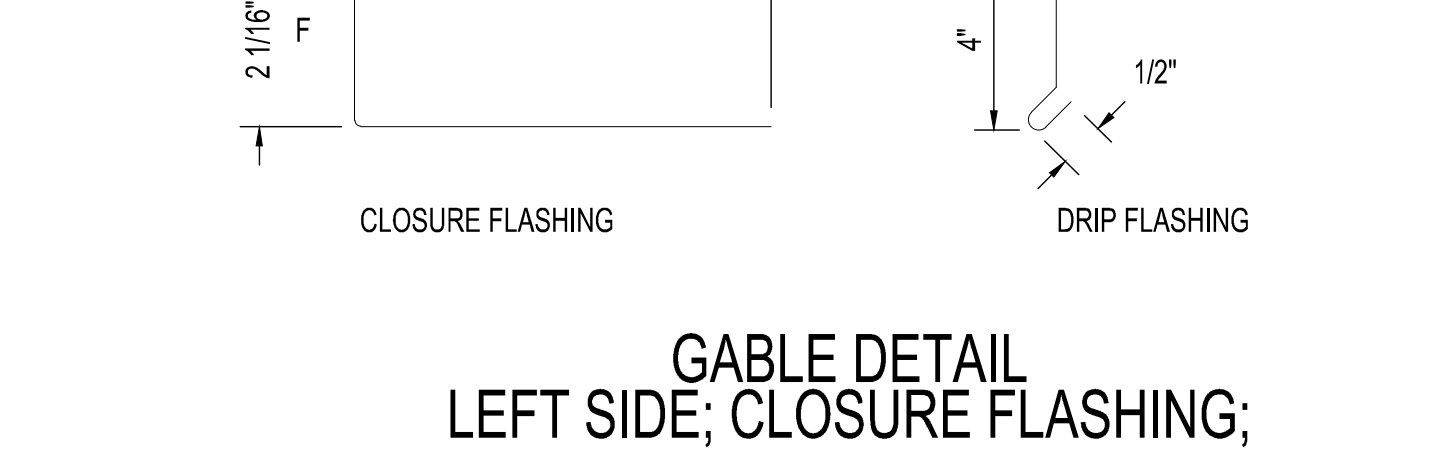
- FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS FOR RIDGE.



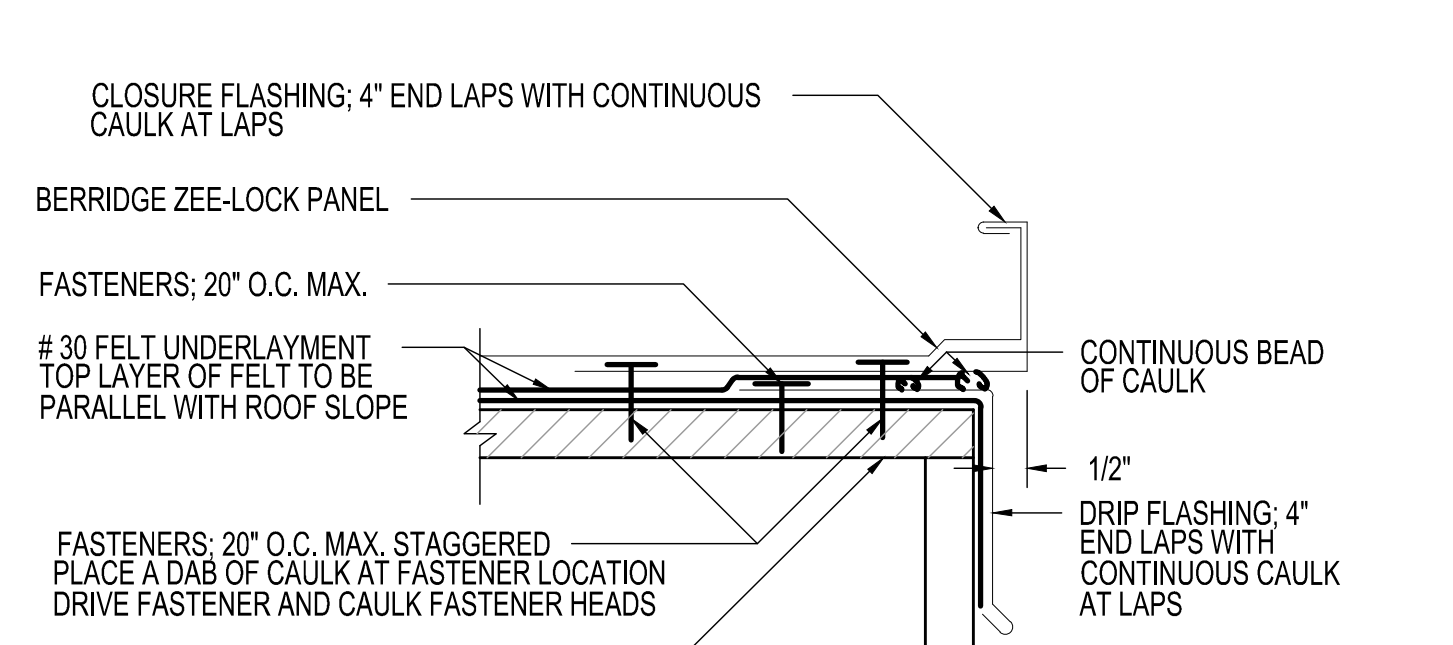
RIDGE DETAIL



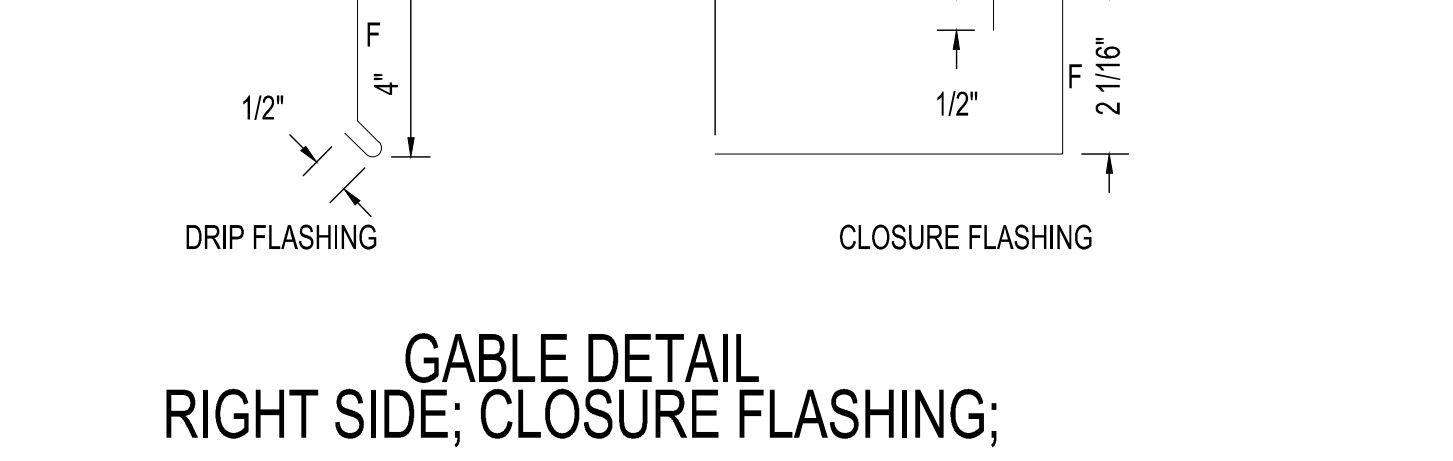
- F = FINISH SIDE



GABLE DETAIL LEFT SIDE; CLOSURE FLASHING;

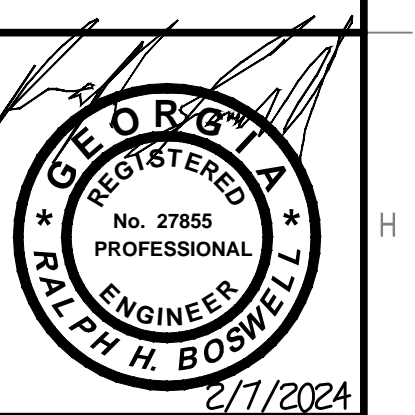


- F = FINISH SIDE



GABLE DETAIL RIGHT SIDE; CLOSURE FLASHING;

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WASTEWATER TREATMENT PLANT EXPANSION FOR THE CITY OF RINCON EFFINGHAM COUNTY GA

NO.	DATE	BY	DESCRIPTION

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BLOWER BUILDING
 ROOF DETAILS
 4S-7
 SHEET 7 OF 07

FOUNDATION NOTES

- DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION BY A REGISTERED GEOTECHNICAL ENGINEER 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 RECOMMENDATIONS. GRANULAR BASE BELOW FOOTING SHALL BE A MINIMUM OF 12" OF #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/ 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 = III
SEISMIC IMPORTANCE FACTOR (I_e) = 1.25
 $S_D = 0.3225$ $S_1 = 0.1164$
SITE CLASS = D
 $S_{DS} = 0.332$ $S_{D1} = 0.184$
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-16 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) = 0.2072
SEISMIC DESIGN CATEGORY = C
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

CONC REINF LAP LENGTH

4500 PSI (ACI 350-20)

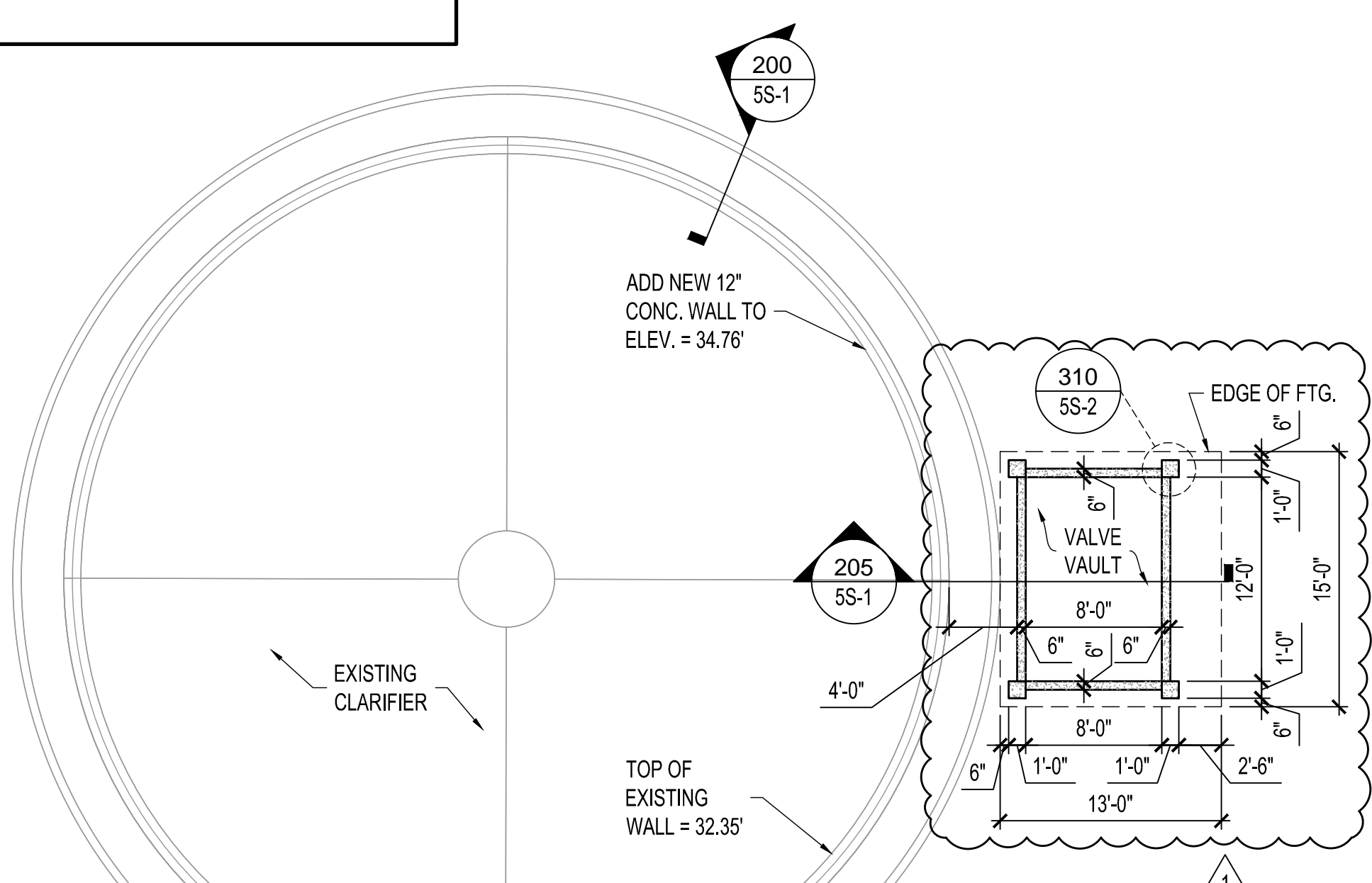
BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	18"
#4	24"
#5	30"
#6	35"
#7	51"
#8	59"
#9	66"
#10	73"

CONCRETE NOTES

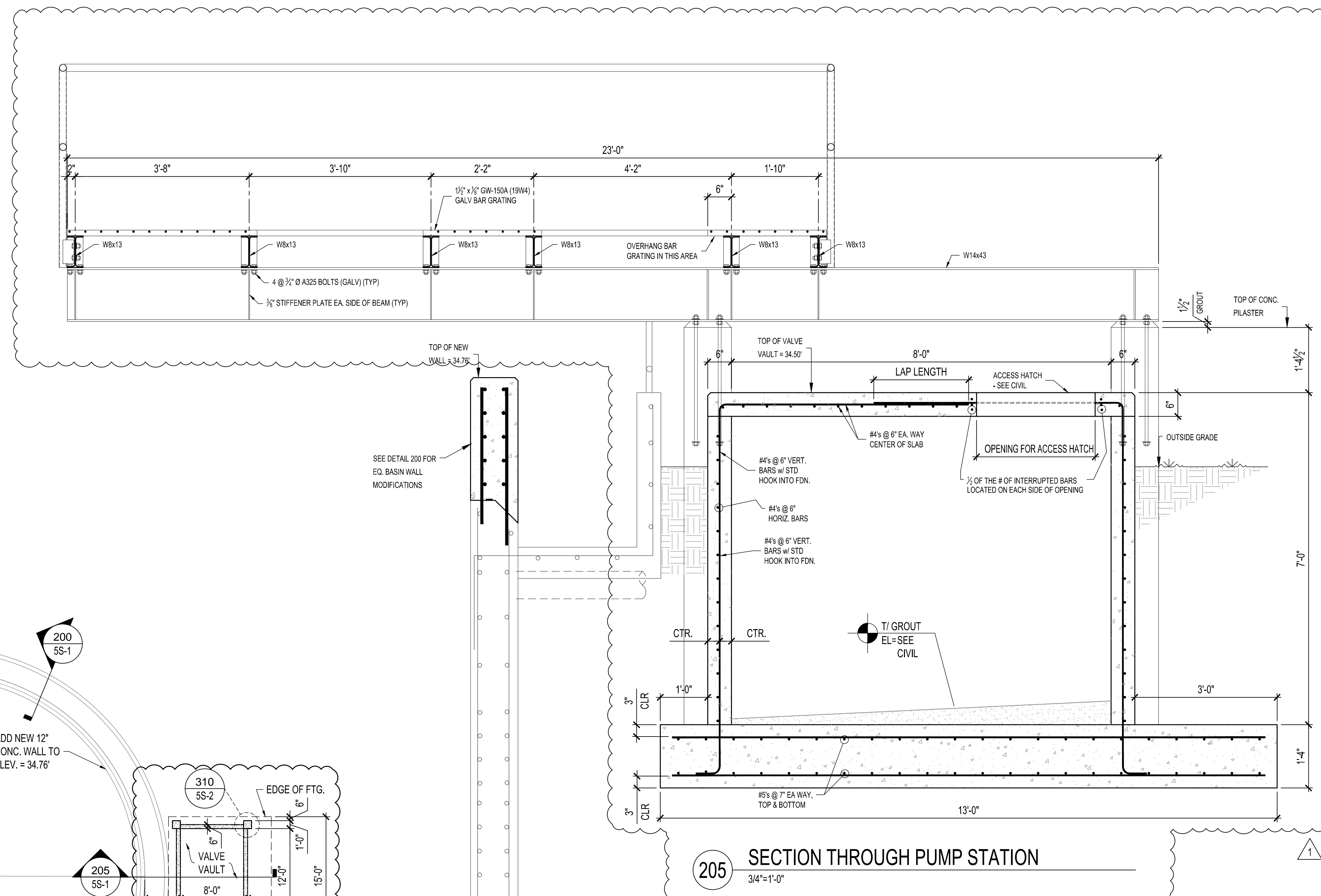
- MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS SHALL BE 4500 PSI FOR WALLS AND SLABS IN LIQUID CONTAINING VESSELS. MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS SHALL BE 4000 PSI FOR WALLS AND SLABS IN OTHER STRUCTURES.
- STRUCTURAL MEMBERS OF REINFORCED CONCRETE IN LIQUID CONTAINING VESSELS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 350-20. ALL OTHER STRUCTURAL SLABS AND WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-14.
- PROVIDE $\frac{1}{4}$ " 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 318-14. 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

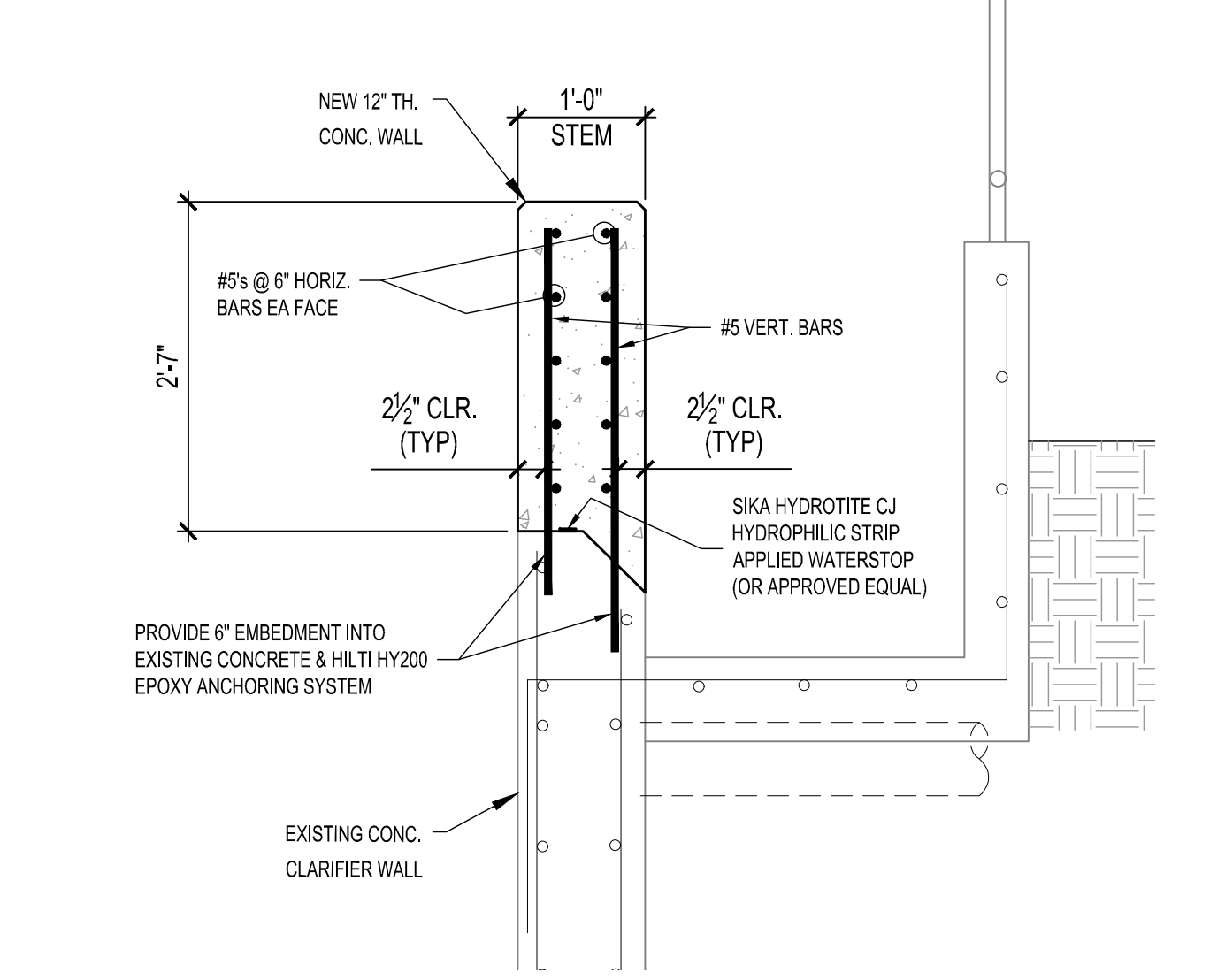
- SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- MATERIALS:
 - REINFORCING BARS SHALL COMPLY WITH ASTM A615 GRADE 60.
 - WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A82 AND A185.
 - 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 = $\frac{3}{4}$ "
FOOTINGS & BASE SLABS = 2"



1 EQUALIZATION BASIN MODIFICATIONS PLAN
1/8"=1'-0"



205 SECTION THROUGH PUMP STATION
3/4"=1'-0"



200 EQUALIZATION BASIN MODIFICATIONS SECTION
3/4"=1'-0"

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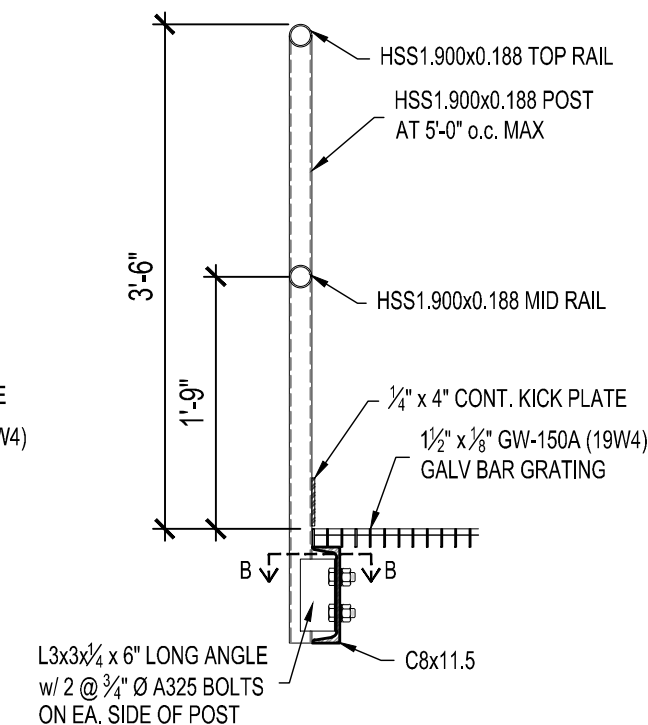
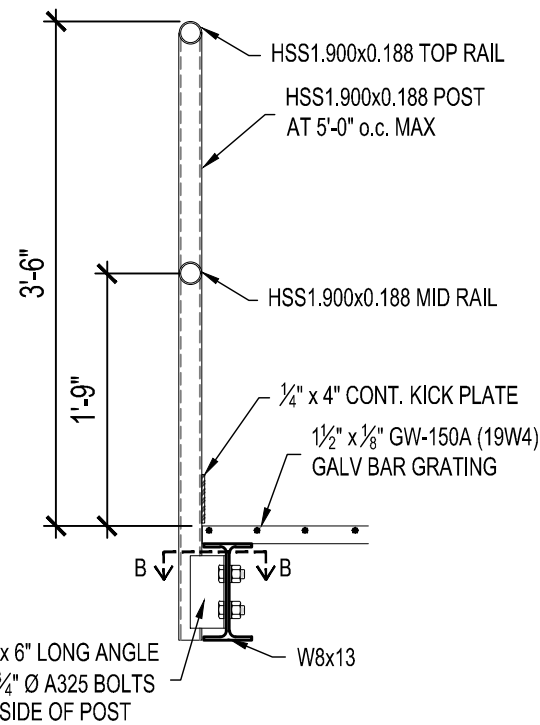
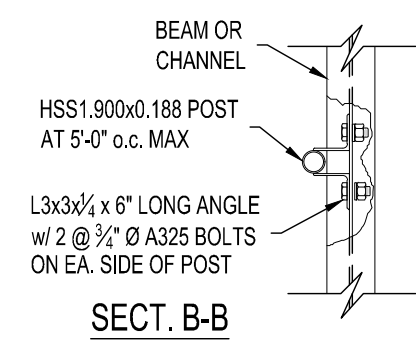
WASTEWATER TREATMENT PLANT EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
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	12/20/2024	EPD/CMB/ML	PRO SUBMITTAL

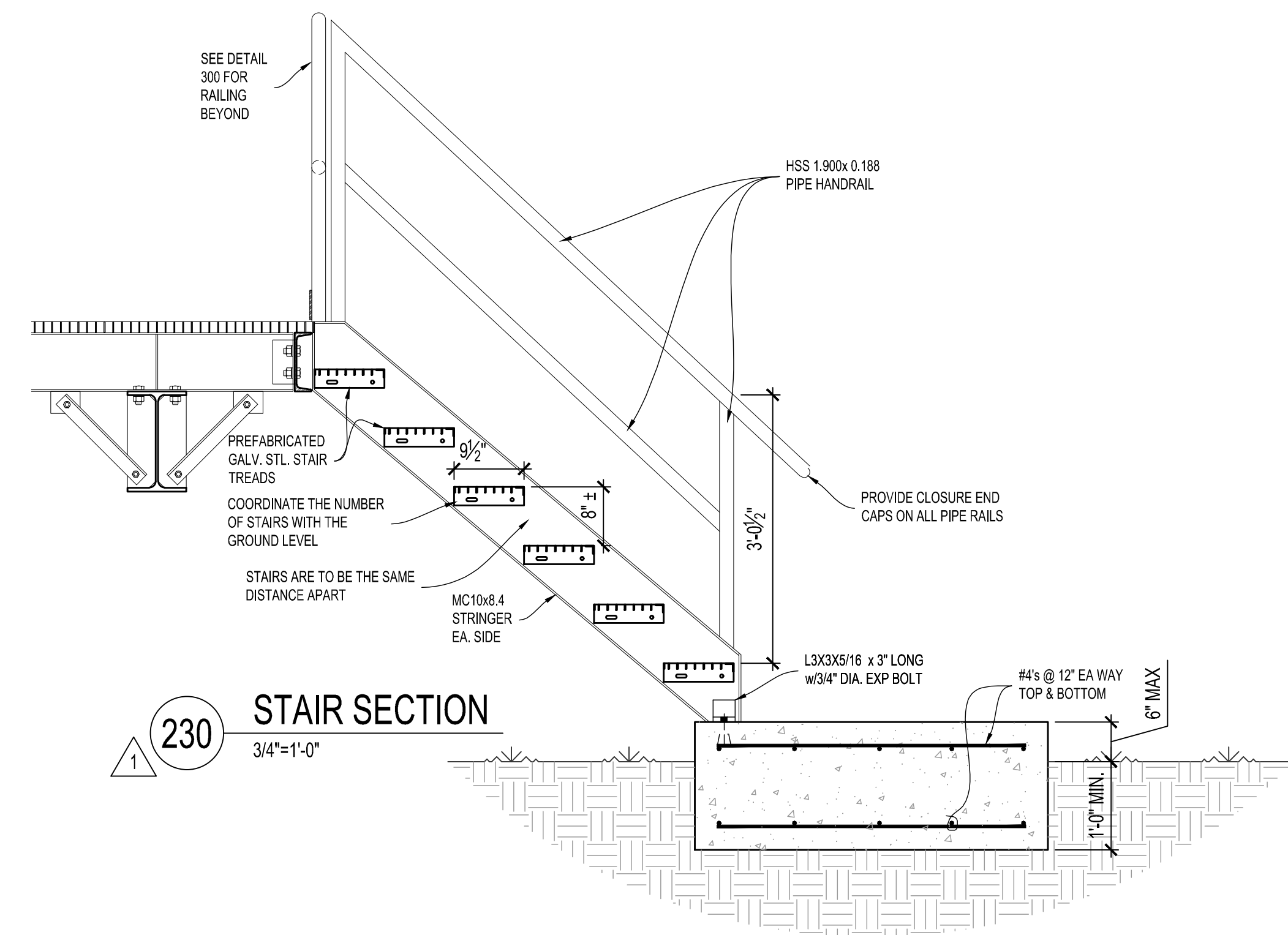
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DATE: 2-7-2024
CHECKED:
APPROVED:

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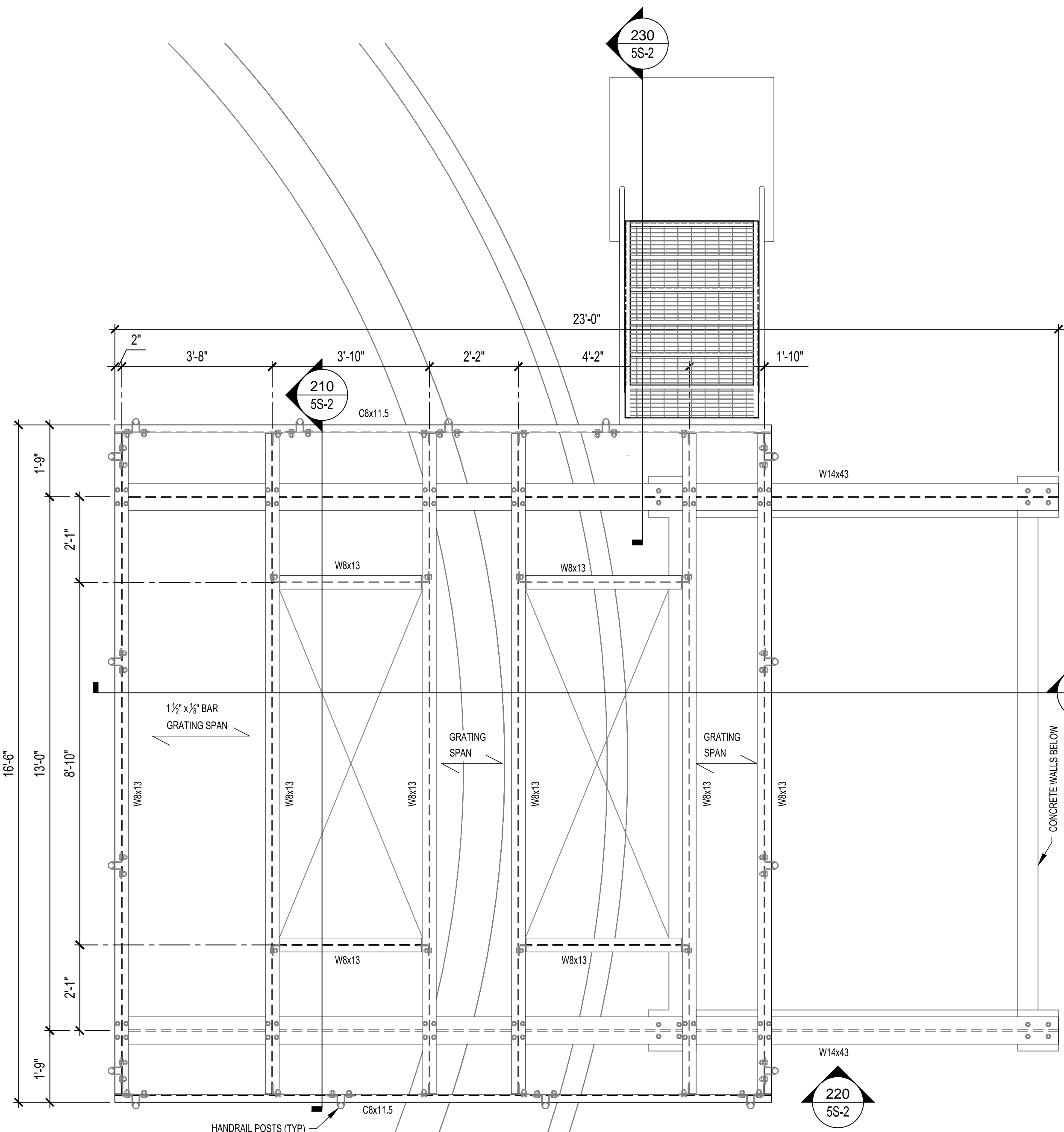
EQUALIZATION BASIN MODS
PLAN, SECTION,
DETAILS, & NOTES



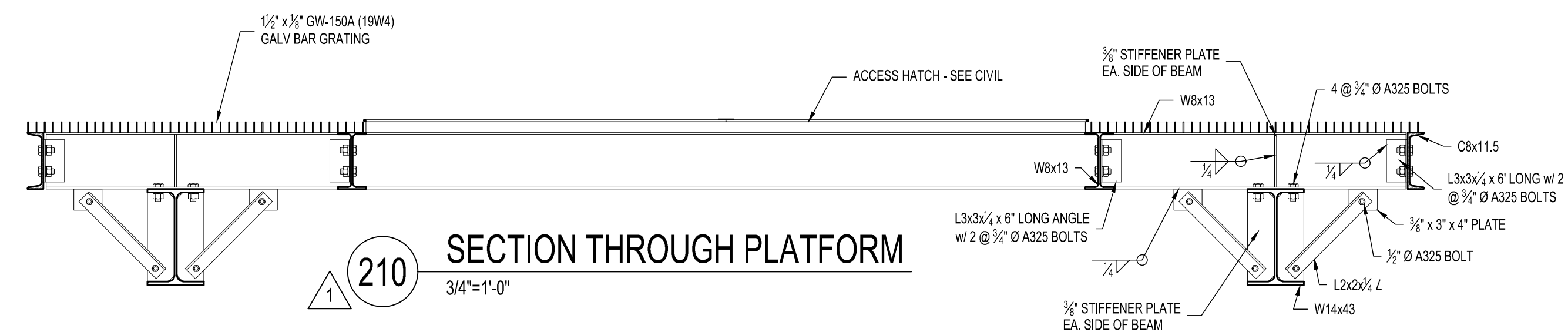
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3/4"=1'-0"



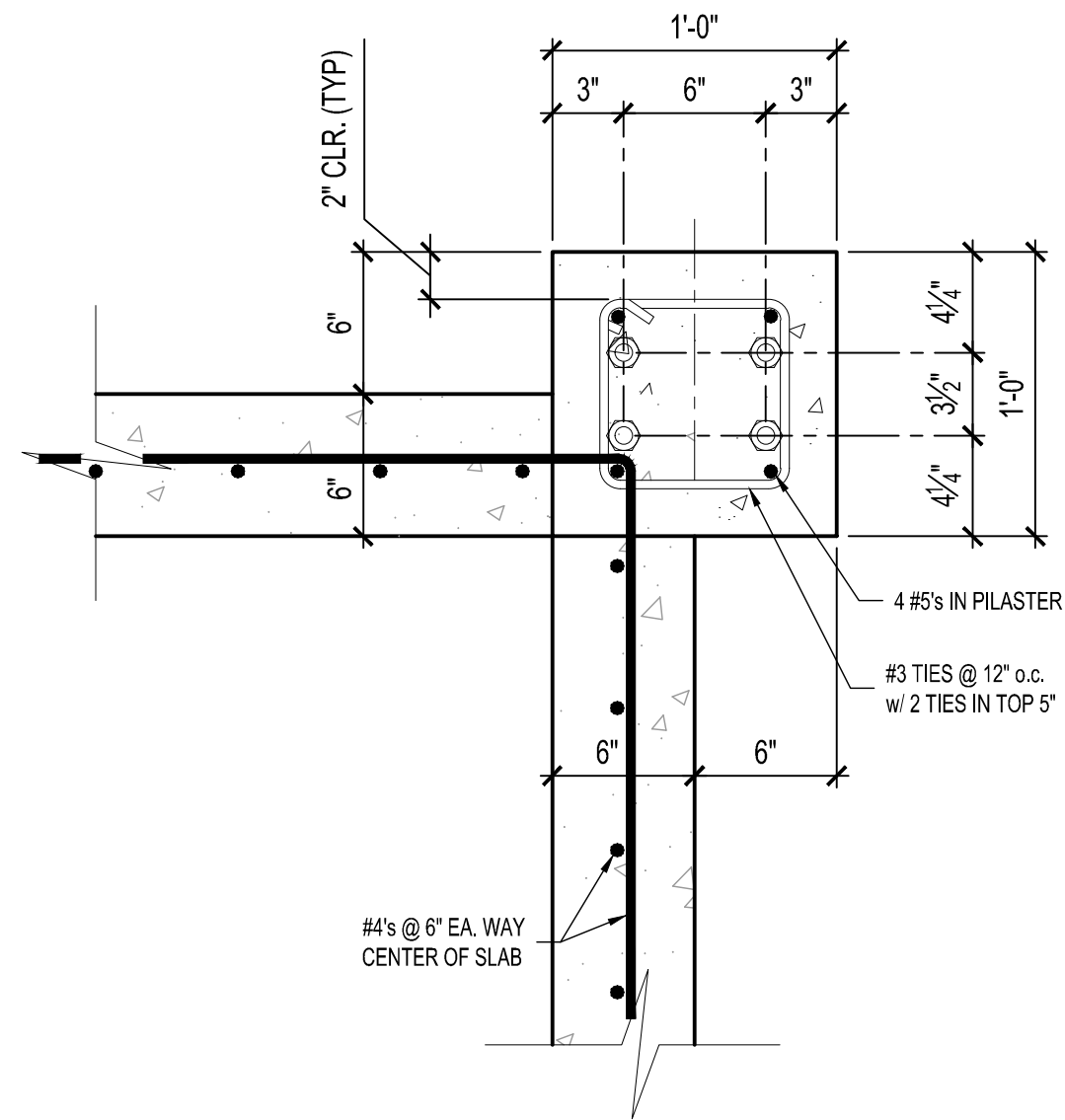
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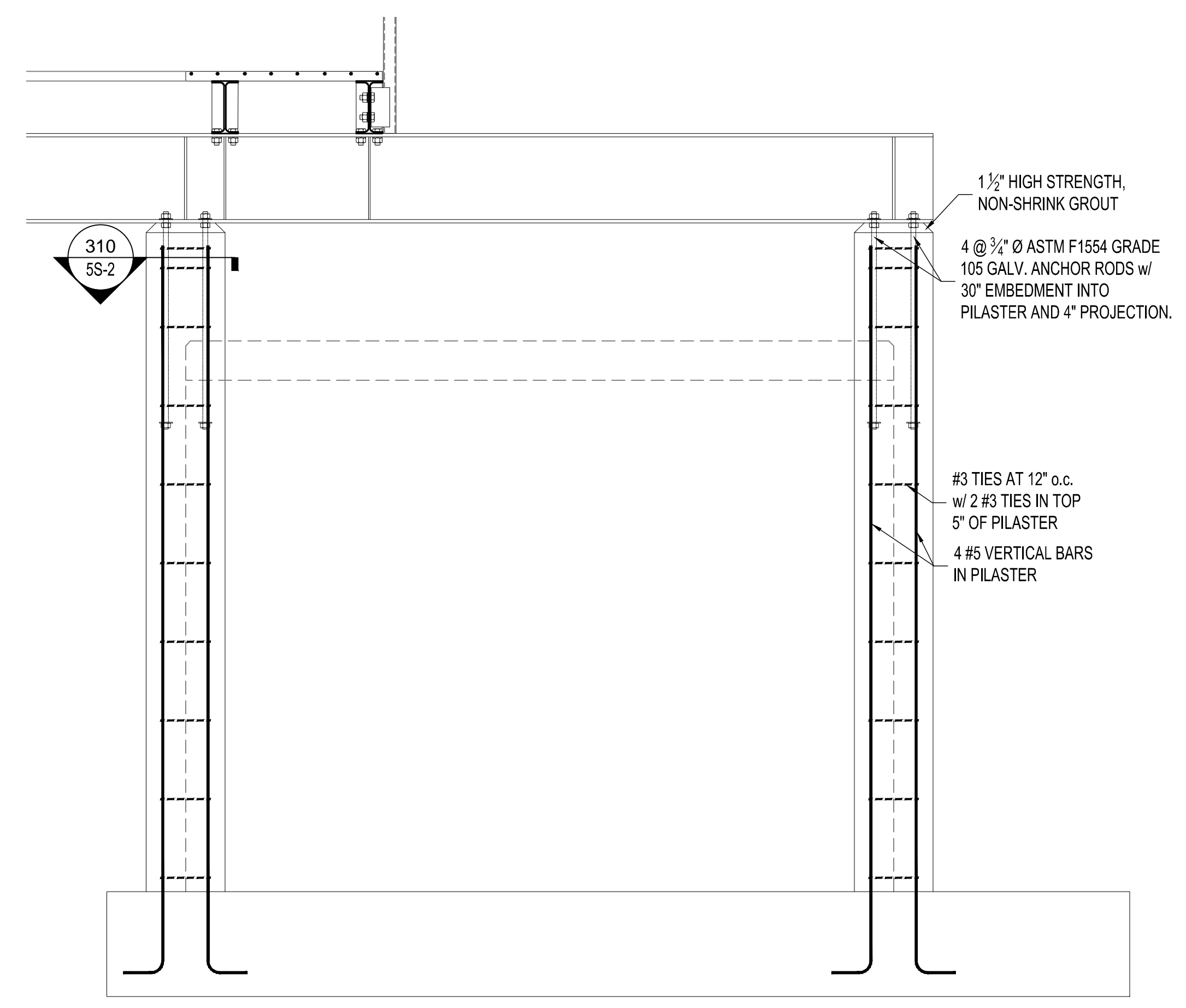
2
1/2"=1'-0"



210
3/4"=1'-0"



310
1/2"=1'-0"



220
3/4"=1'-0"

OCONEE ENGINEERING L.L.C.
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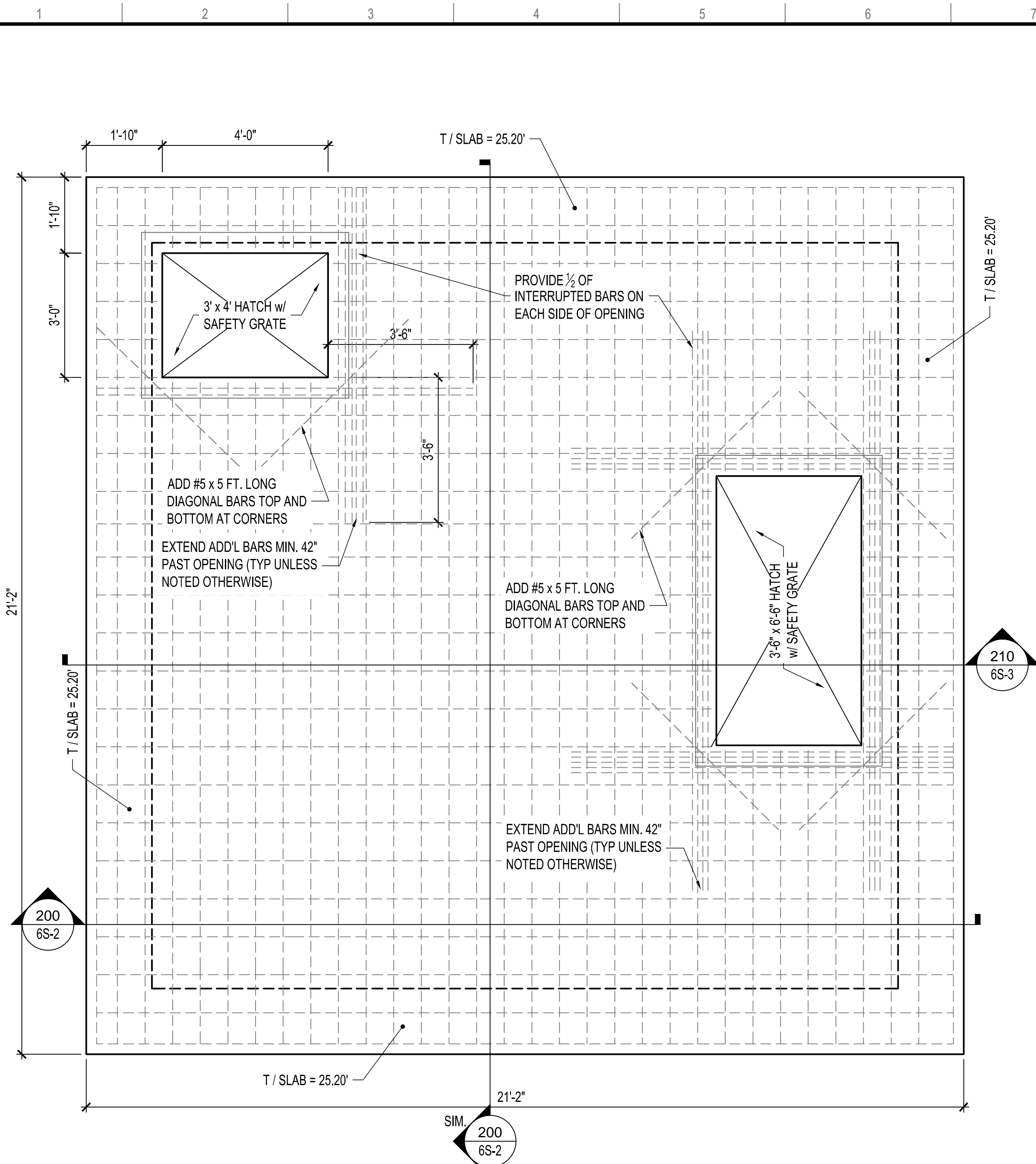
10/7/2024

WASTEWATER TREATMENT PLANT EXPANSION FOR THE CITY OF RINCON EFFINGHAM COUNTY, GEORGIA

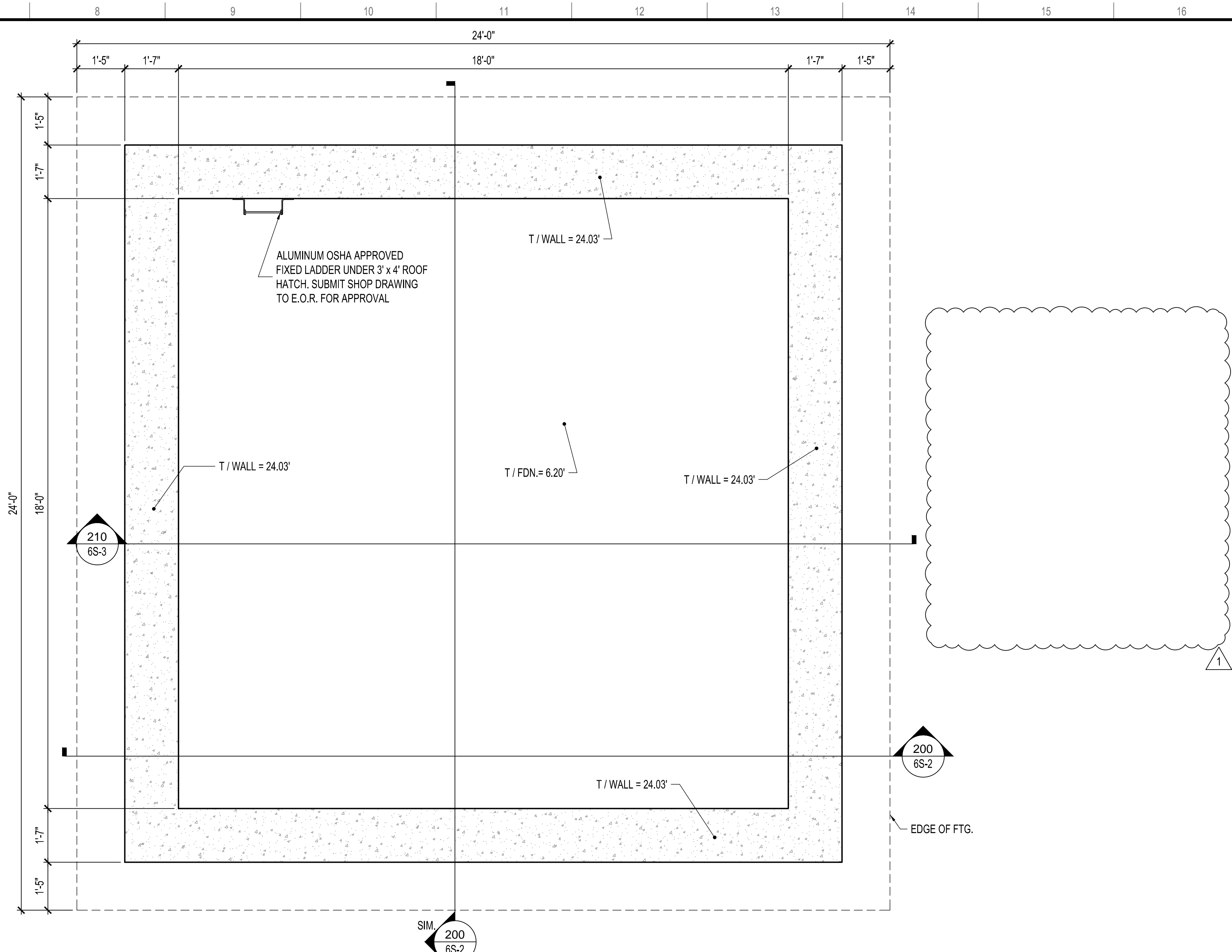
MARK	DATE	BY	DESCRIPTION
1	10-3-2024	EPD	COMMENTS - NEW SHEET ISSUE
2	2-7-2024	EPD	PROVISIONAL

DESIGNED: OEE22121
FILE NAME: OEE22171-SS-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 2-7-2024
APPROVED:
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EQUALIZATION BASIN MOD'S PLANS, SECTIONS, & DETAILS



2 REJECT PUMP STATION TOP SLAB REINFORCING PLAN
1/2"=1'-0"



1 REJECT PUMP STATION FOUNDATION PLAN
1/2"=1'-0"

CONC REINF LAP LENGTH 4500 PSI (ACI 350-20)	
BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	18"
#4	24"
#5	30"
#6	35"
#7	51"
#8	59"
#9	66"
#10	73"

CONC REINF LAP LENGTH 4000 PSI (ACI 318-14)	
BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	19"
#4	25"
#5	31"
#6	37"
#7	54"
#8	62"
#9	70"

- FOUNDATION NOTES**
- DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION BY A REGISTERED GEOTECHNICAL ENGINEER 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 RECOMMENDATIONS. GRANULAR BASE BELOW FOOTING SHALL BE A MINIMUM OF 12" OF #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/ 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 = III
SEISMIC IMPORTANCE FACTOR (I_e) = 1.25
 $S_s = 0.3225$ $S_1 = 0.1164$
SITE CLASS = D
 $S_{D5} = 0.332$ $S_{D1} = 0.184$
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-16 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) = 0.2072
SEISMIC DESIGN CATEGORY = C
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

- 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 4000 PSI FOR WALLS AND SLABS IN OTHER STRUCTURES.
 - STRUCTURAL MEMBERS OF REINFORCED CONCRETE IN LIQUID CONTAINING VESSELS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 350-20. ALL OTHER STRUCTURAL SLABS AND WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-14.
 - PROVIDE 3/8" 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 318-14. 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.
 - APPLY SHERWIN WILLIAMS DURAPLATE 6100 TO ALL LIQUID CONTAINING STRUCTURES. PREPARE CONCRETE SURFACES PER MANUFACTURERS RECOMMENDATIONS.

- 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:
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.
 - 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 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 = 3/4"
BEAMS, PIERS, & COLUMNS = 1 1/2"
WALLS = 3/4"
FOOTINGS & BASE SLABS = 2"

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OCONEE ENGINEERING L.L.C.
REGISTERED PROFESSIONAL ENGINEER
BRYCE W. ZANGHERLING
No. 27855
BOSSWELL H. BOSWELL
10/7/2024

WASTEWATER TREATMENT PLANT EXPANSION FOR THE CITY OF RINCON EFFINGHAM COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
1	10/07/2024	EPR/SUBMITAL	PRO COMMENTS
2	10/23/2024	EPR/SUBMITAL	PRO COMMENTS

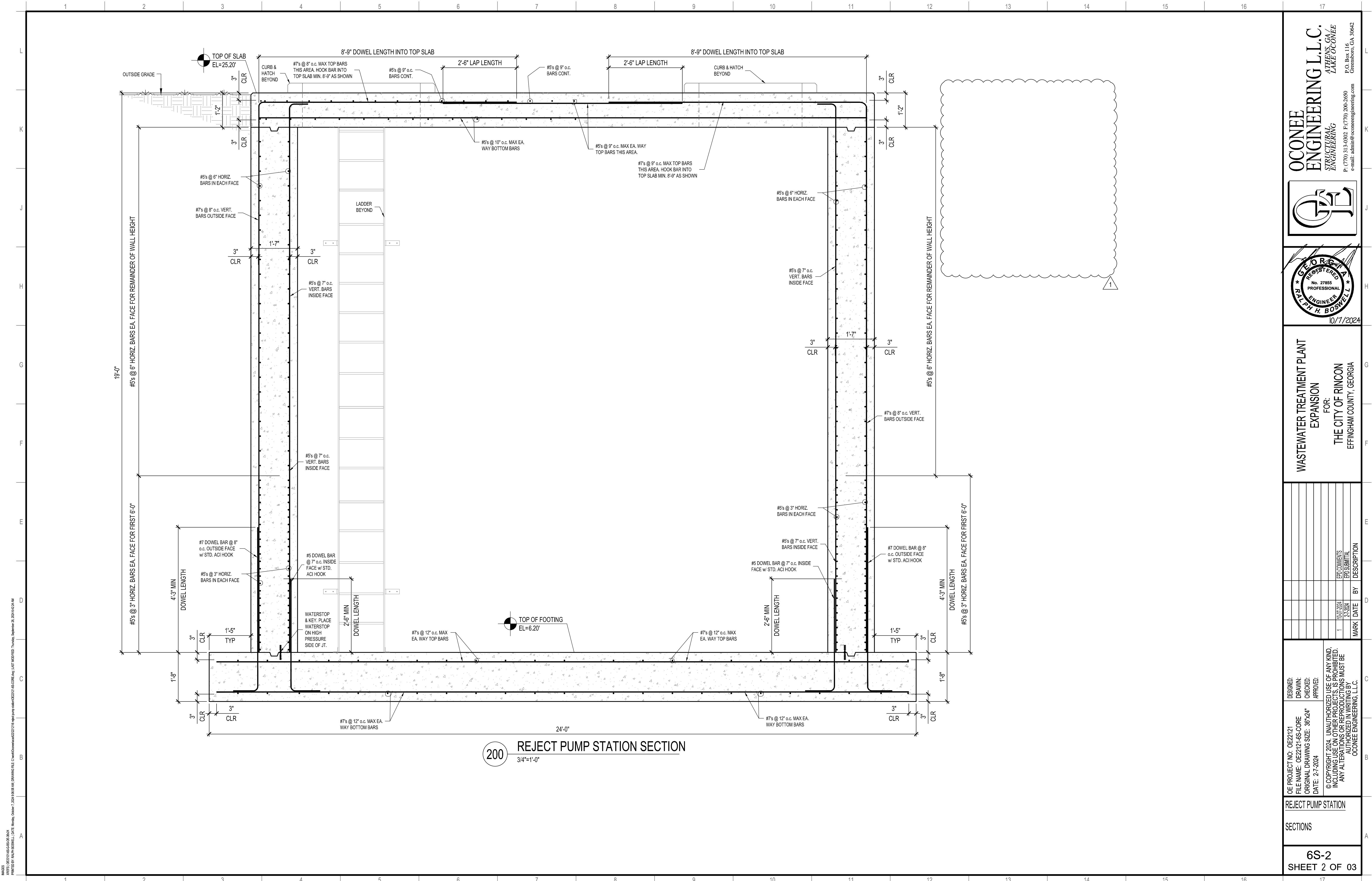
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CHECKED:
DATE: 2-7-2024
APPROVED:

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REJECT PUMP STATION FOUNDATION PLAN, TOP SLAB PLAN, & GENERAL NOTES

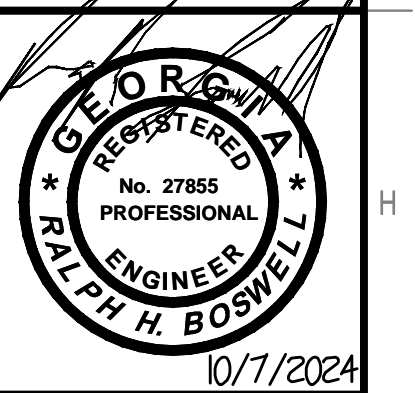
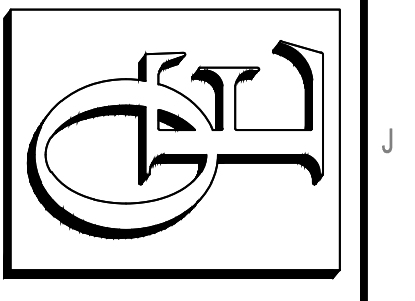
6S-1
SHEET 1 OF 03

NOTES: 1. ALL DIMENSIONS UNLESS OTHERWISE NOTED. 2. ALL REBAR SHALL BE #5 UNLESS OTHERWISE NOTED. 3. ALL WALLS SHALL BE 12" THICK UNLESS OTHERWISE NOTED. 4. ALL SLABS SHALL BE 6" THICK UNLESS OTHERWISE NOTED. 5. ALL CONCRETE SHALL BE 4000 PSI UNLESS OTHERWISE NOTED. 6. ALL FORMWORK SHALL BE 1/2" GYP BOARD UNLESS OTHERWISE NOTED. 7. ALL EXCAVATIONS SHALL BE PROTECTED WITH SHIELDING. 8. ALL UTILITY LINES SHALL BE PROTECTED WITH 18" DIA. CONCRETE RINGS. 9. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI). 10. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). 11. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN INSTITUTE OF MECHANICAL, ELECTRICAL, AND PLUMBING ENGINEERS (ASME). 12. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASCE). 13. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE). 14. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME). 15. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME). 16. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME). 17. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME). 18. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME). 19. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME). 20. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).



200 REJECT PUMP STATION SECTION
3/4"=1'-0"

OCONEE ENGINEERING L.L.C.
 ATTORNEYS AT LAW
 1700 W. GREENSBORO AVENUE
 GREENSBORO, GA 30642
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 e-mail: admin@oconeeengineering.com



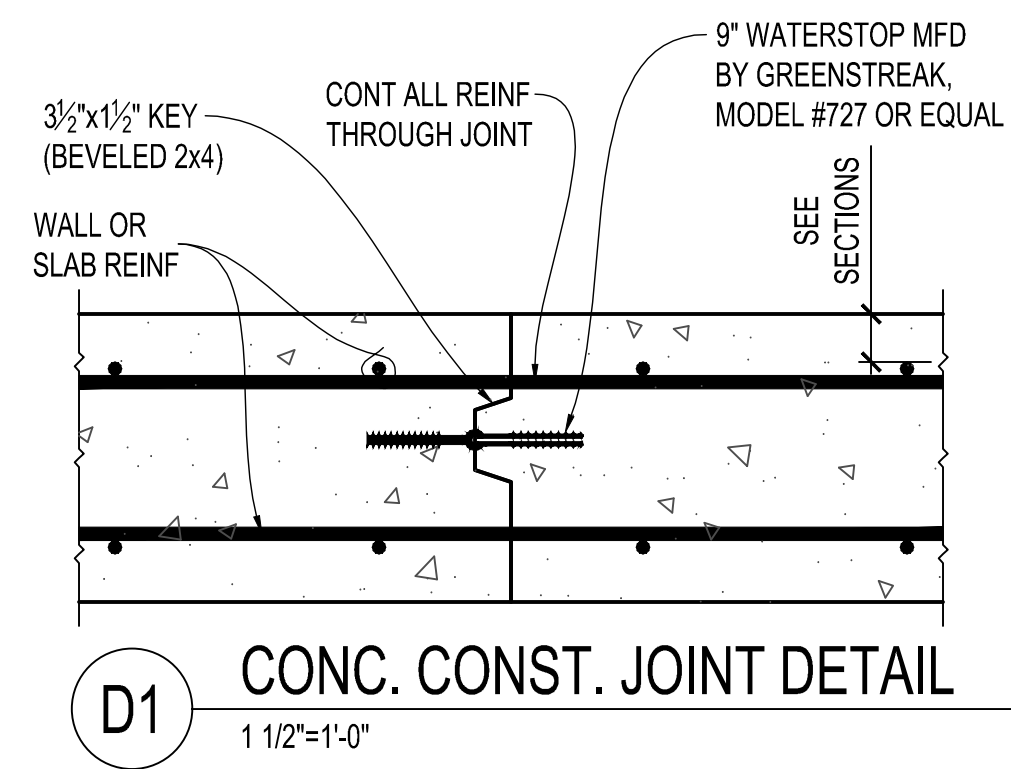
WASTEWATER TREATMENT PLANT
 EXPANSION
 FOR:
 THE CITY OF RINCON
 EFFINGHAM COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
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2	10/27/2024	EOC	FINAL

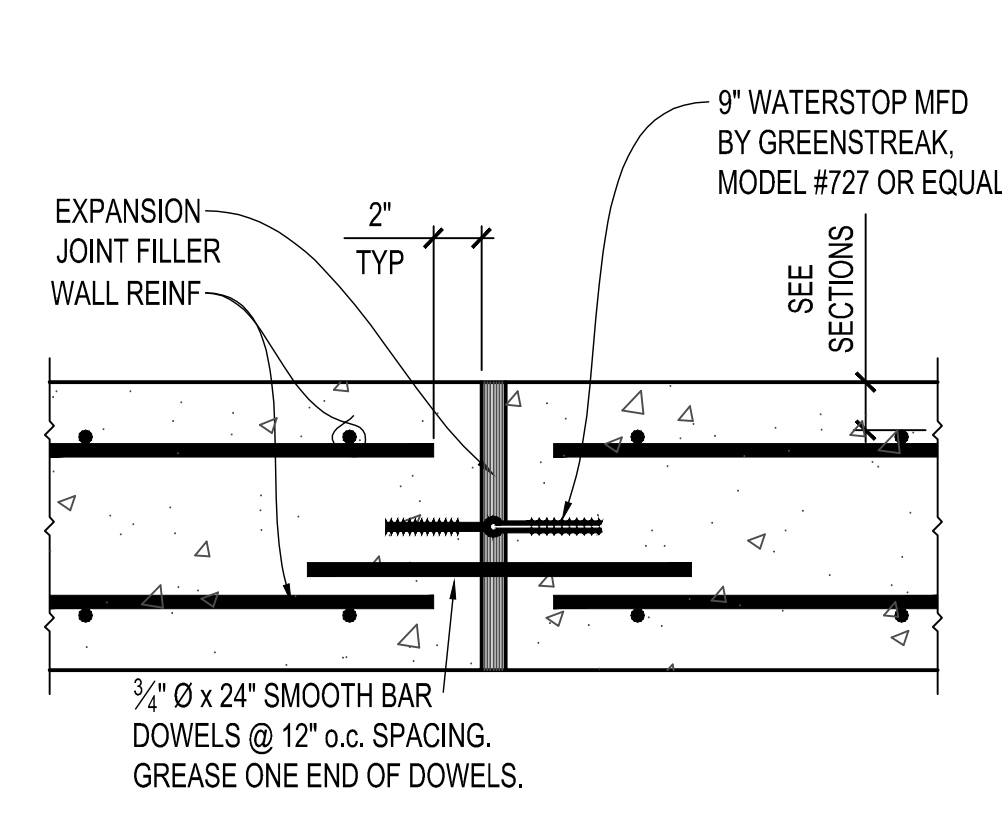
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 CHECKED:
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REJECT PUMP STATION
 SECTIONS

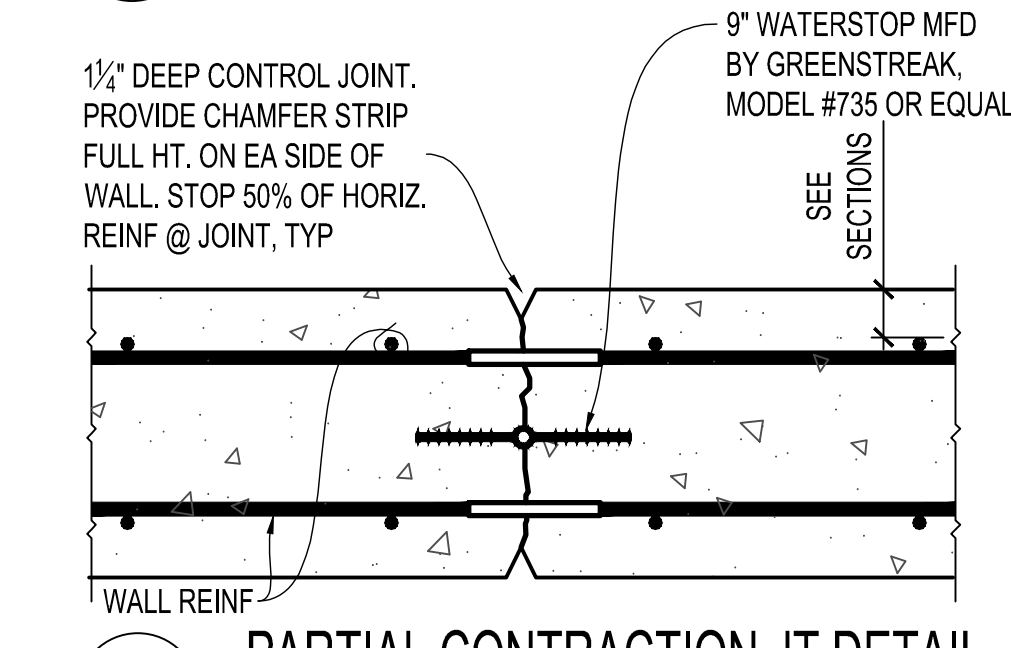
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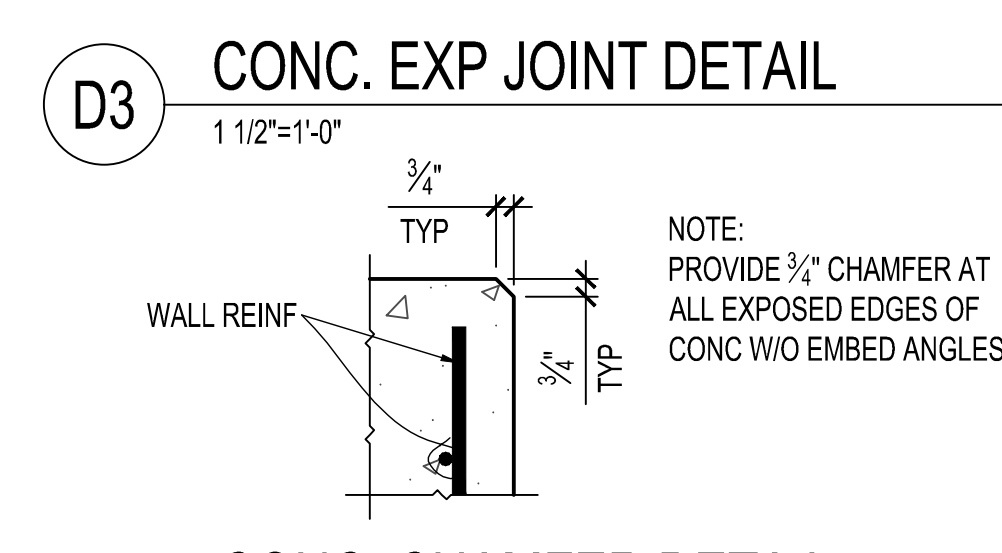
D1 CONC. CONST. JOINT DETAIL
1 1/2"=1'-0"



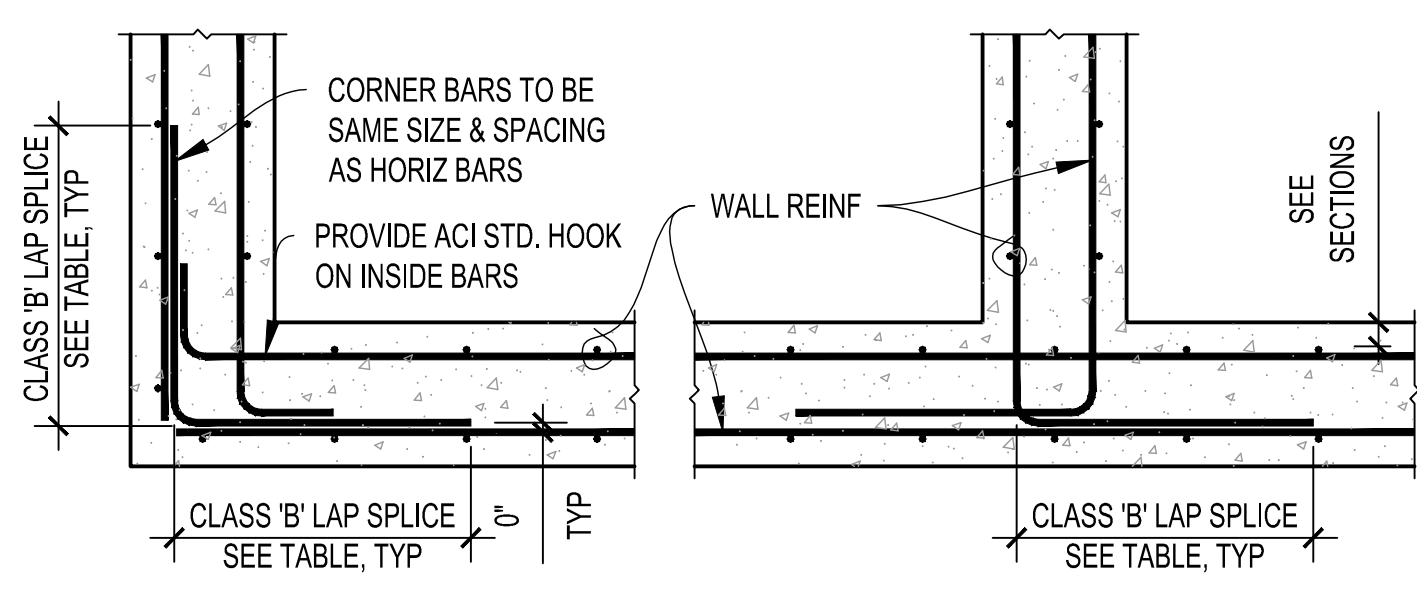
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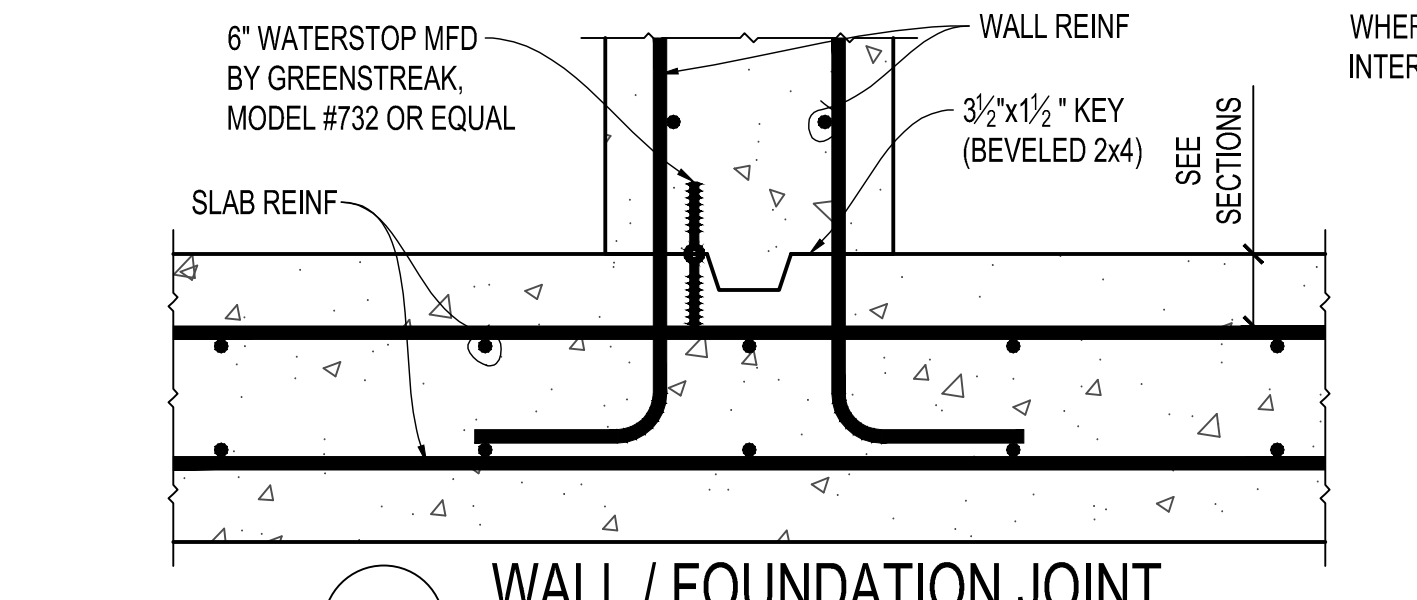
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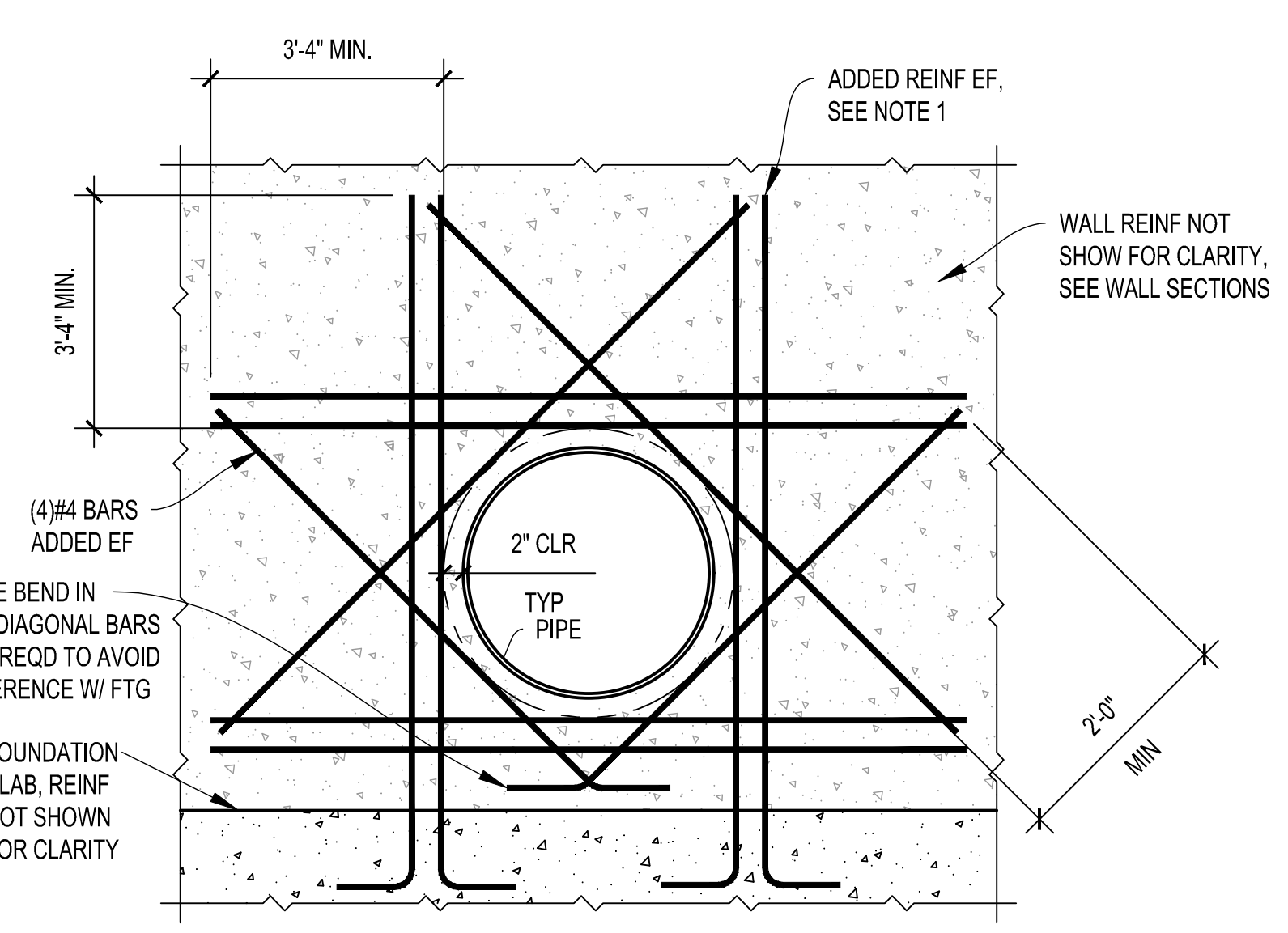
D4 CONC. CHAMFER DETAIL
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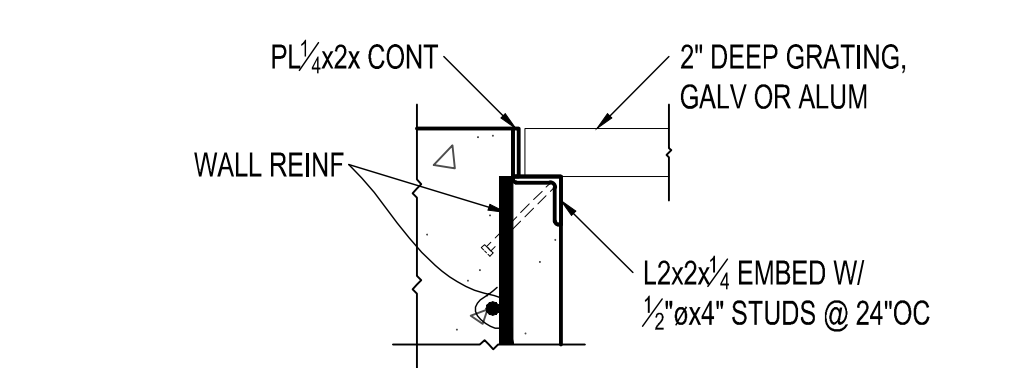
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N.T.S.



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

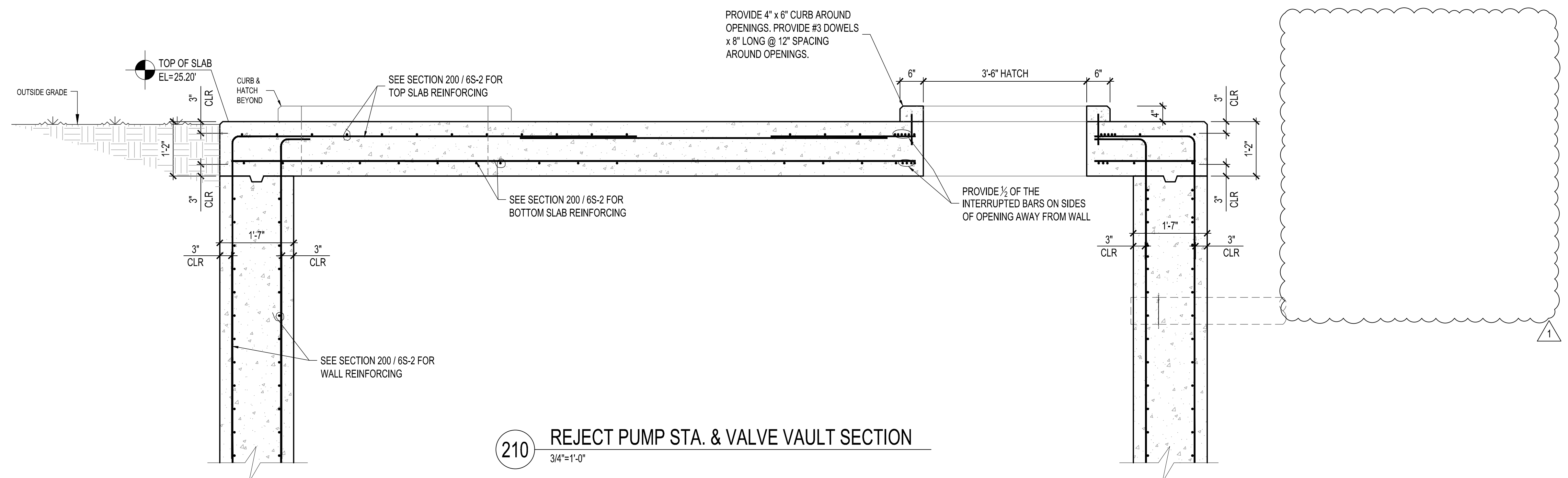


D7 TYP WALL REINF @ PIPE OPENING
N.T.S.



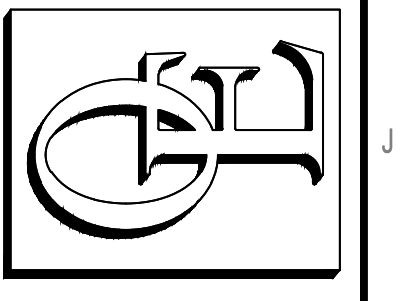
D8 GRATING EMBED DETAIL
1 1/2"=1'-0"

- 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" O.C.
 2. MAINTAIN NOT LESS THAN 1/4" CLEAR BETWEEN ADJACENT PARALLEL BARS.



210 REJECT PUMP STA. & VALVE VAULT SECTION
3/4"=1'-0"

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W. H. BOSWELL
REGISTERED PROFESSIONAL ENGINEER
No. 27855
10/7/2024

WASTEWATER TREATMENT PLANT
EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY, GEORGIA

MARK	DATE	BY	DESCRIPTION
1	05/07/2024	EPR	COMMENTS
	2/7/2024	EPR	SUBMITTAL

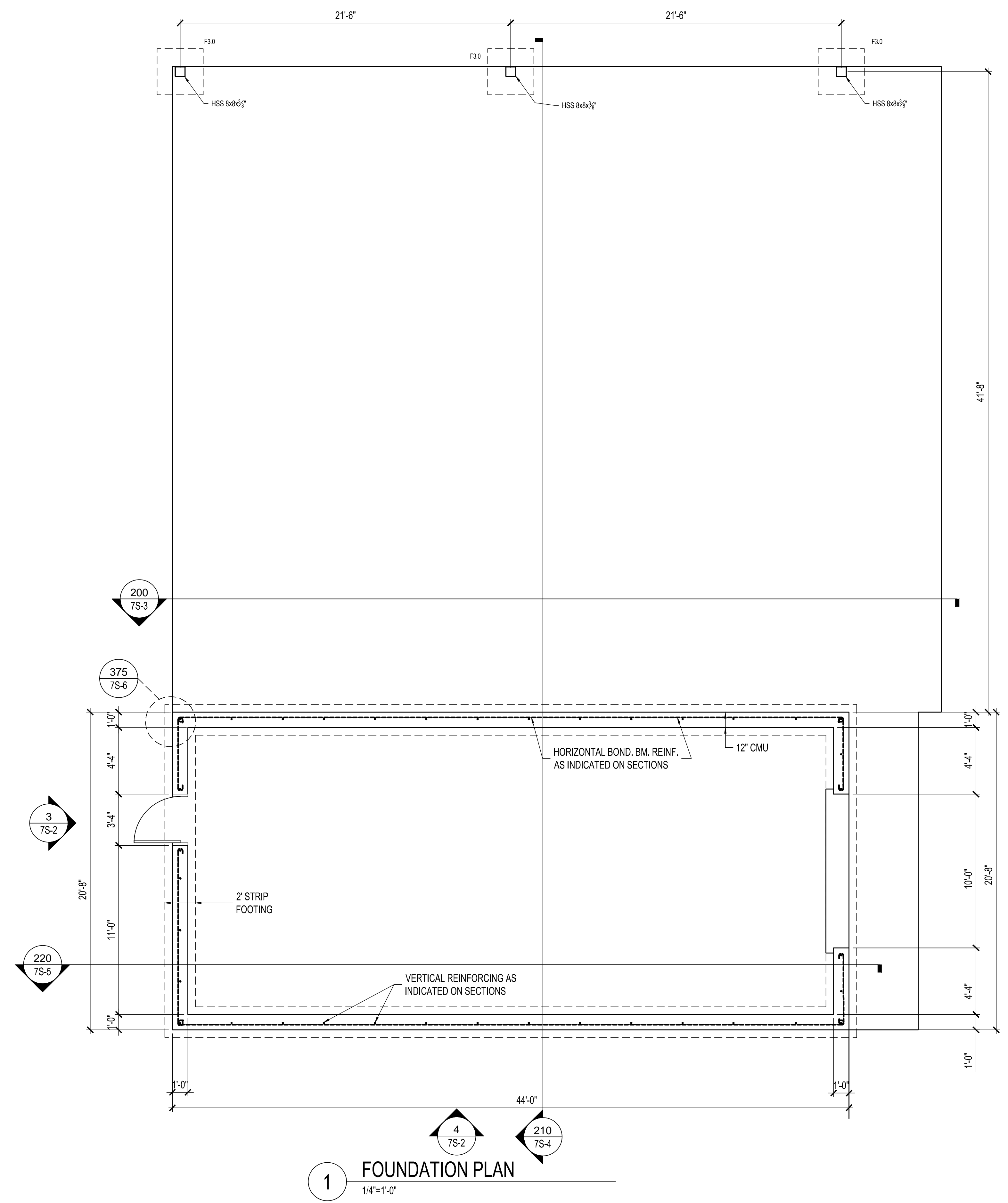
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ORIGINAL DRAWING SIZE: 36"x24"
DATE: 2-7-2024
DRAWN: [blank]
CHECKED: [blank]
APPROVED: [blank]

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REJECT PUMP STATION
SECTIONS & DETAILS

PLOTTED BY: KALYN BOWELL DATE: Monday, October 7, 2024 10:52:00 AM DRAWING FILE: C:\work\occonee\221717\reject pump\6s-core.dwg (LAST MODIFIED: Thursday, September 26, 2024 14:24:44 AM)

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.



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 5/8" APA RATED SHEATHING W/ #10 TEKS WOOD TO METAL FASTNERS AT 6" o.c. @ PANEL EDGES & @12" o.c. @ INTERMEDIATE SUPPORTS.

CONC REINF LAP LENGTH
3000 PSI (ACI 318-14)

| 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 | 3 1/2" TYPICAL | |
|----------------|----------------|---------|
| | MINIMUM | MAXIMUM |
| 12" | 12" CMU | 12" 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 |

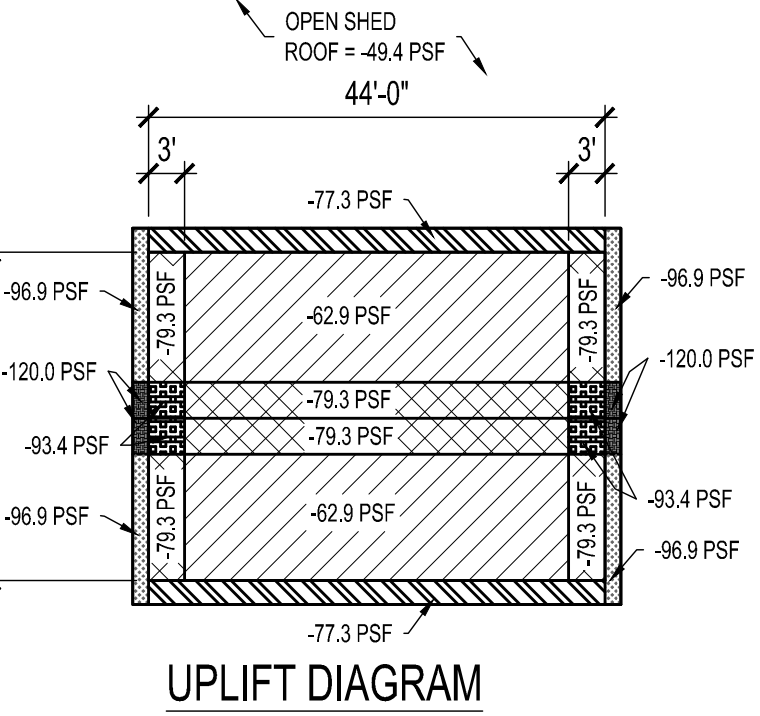
- EXTEND BOND BEAM REINFORCING 24" OR 40 BAR DIAMETERS (WHICHEVER IS GREATER) BEYOND THE EXTENTS OF THE OPENING. VERTICAL REINFORCING AT THE SIDES OF THE OPENING SHALL BE CONTINUOUS THROUGH THE BOND BEAM. PROVIDE KNOCK OUTS IN THE BOTTOM OF THE BOND BEAM BLOCK AS REQUIRED TO ALLOW REINFORCING TO PASS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

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.

STRUCTURE NOTES

- DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BRNG PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION AND ENGINEER SHALL BE NOTIFIED IF ACTUAL SOIL BEARING PRESSURE IS LOWER THAN DESIGN VALUE.
- 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) = 143 MPH
 - OCCUPANCY CATEGORY = III
 - WIND IMPORTANCE FACTOR (Iw) = 1.0
 - UPWIND EXPOSURE CATEGORY = B
 - INTERNAL PRESSURE COEFF. (GCpi) = ±0.18
 - A = 3.0 FT.
 - COMPONENTS & CLADDING NET DESIGN PRESSURES (Pgross PER ASCE 7-16) (LOADS ARE UNREDUCED AND UNFACTORED)
 - ROOF COMPONENTS & CLADDING DESIGN PRESSURES: (BASED ON 20 SF AREA)
 - 18.6 PSF MAXIMUM DOWNWARD LOAD
 - SEE ROOF UPLIFT DIAGRAM FOR UPLIFT LOADS
 - WALL COMPONENTS & CLADDING DESIGN PRESSURES: (BASED ON 20 SF AREA)
 - ZONE 4 = +32.5 PSF, -35.4 PSF
 - ZONE 5 = +32.5 PSF, -42.5 PSF



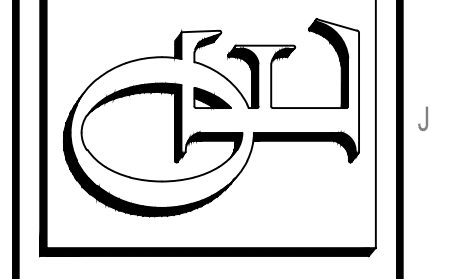
UPLIFT DIAGRAM

- SEISMIC DESIGN CRITERIA:
 - OCCUPANCY CATEGORY = III
 - SEISMIC IMPORTANCE FACTOR (Ie) = 1.25
 - Ss = 0.3225 S1 = 0.1164
 - SITE CLASS = D
 - S05 = 0.332 S01 = 0.184
 - BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-16 TABLE 12.2-1 OR 12.4-1):
 - BEARING WALL SYSTEM - INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
 - RESPONSE MODIFICATION FACTOR (R) = 3.5
 - SEISMIC RESPONSE COEFF. (Cs) = 0.1184
 - SEISMIC DESIGN CATEGORY = C
 - DESIGN BASE SHEAR = 9.0 K
 - ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

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 1/2 THE OVERALL THICKNESS OF SLAB.
 - SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
 - MIN SLAB THICKNESS OF 2 1/2" MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.

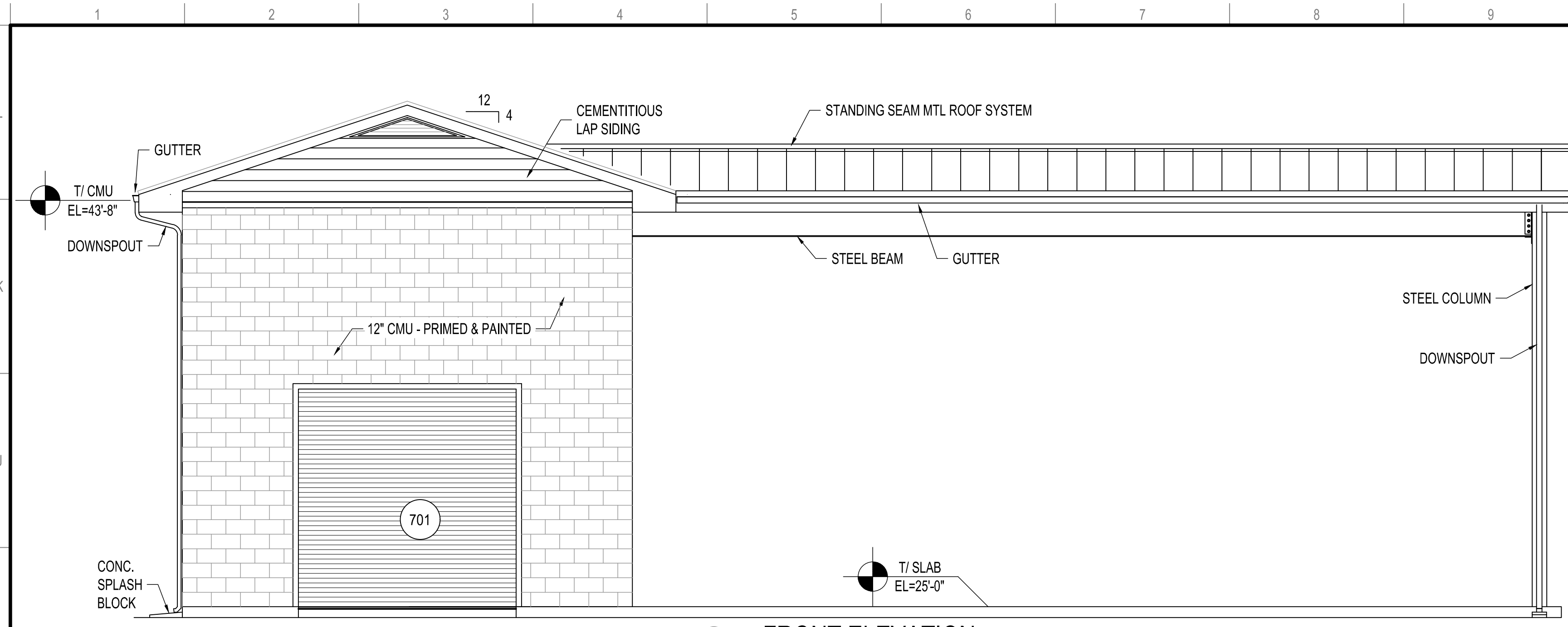
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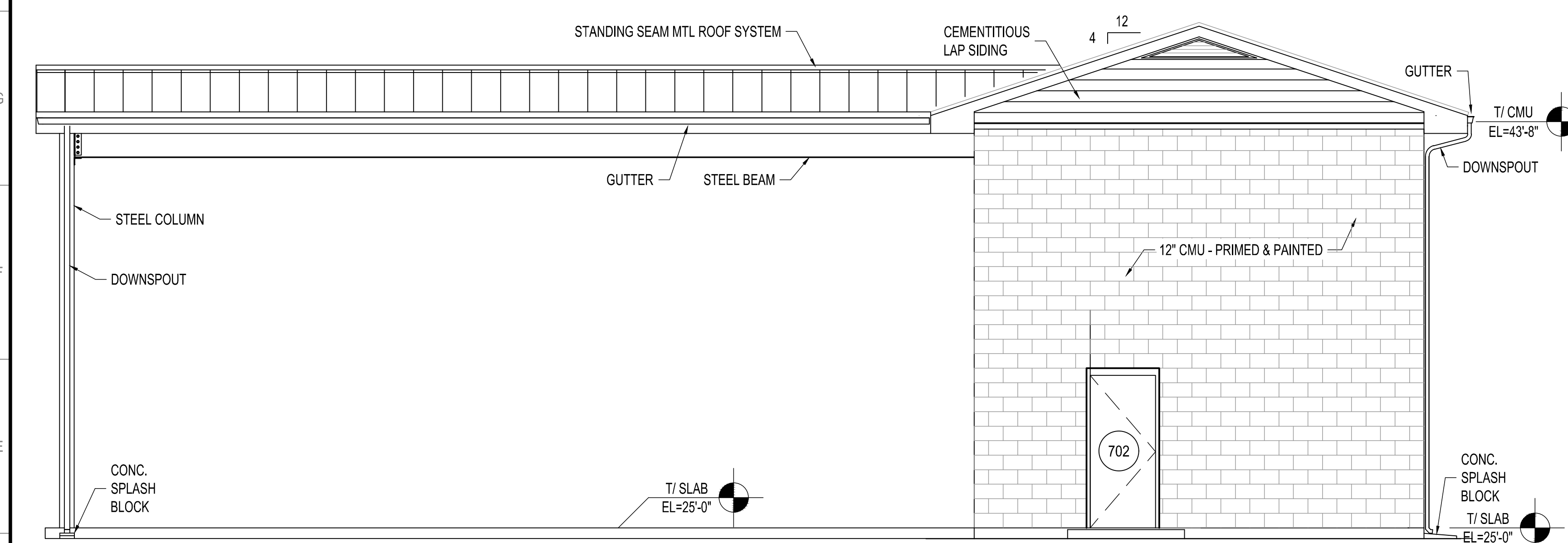
WASTEWATER TREATMENT PLANT
 EXPANSION
 FOR:
 THE CITY OF RINCON
 EFFINGHAM COUNTY, GEORGIA

| MARK | DATE | BY | DESCRIPTION |
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| | 02/27/2024 | EPB/SUBMITAL | |

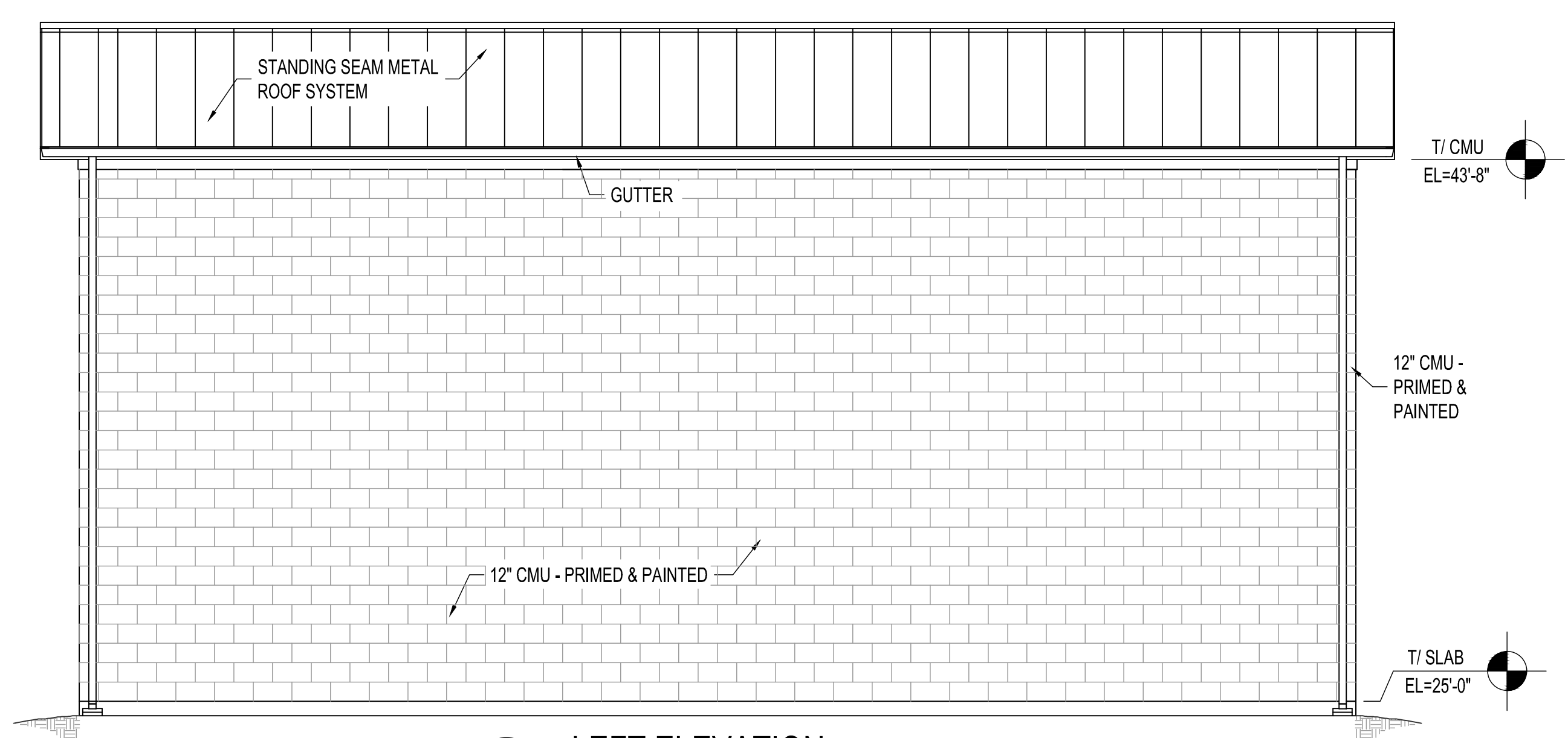
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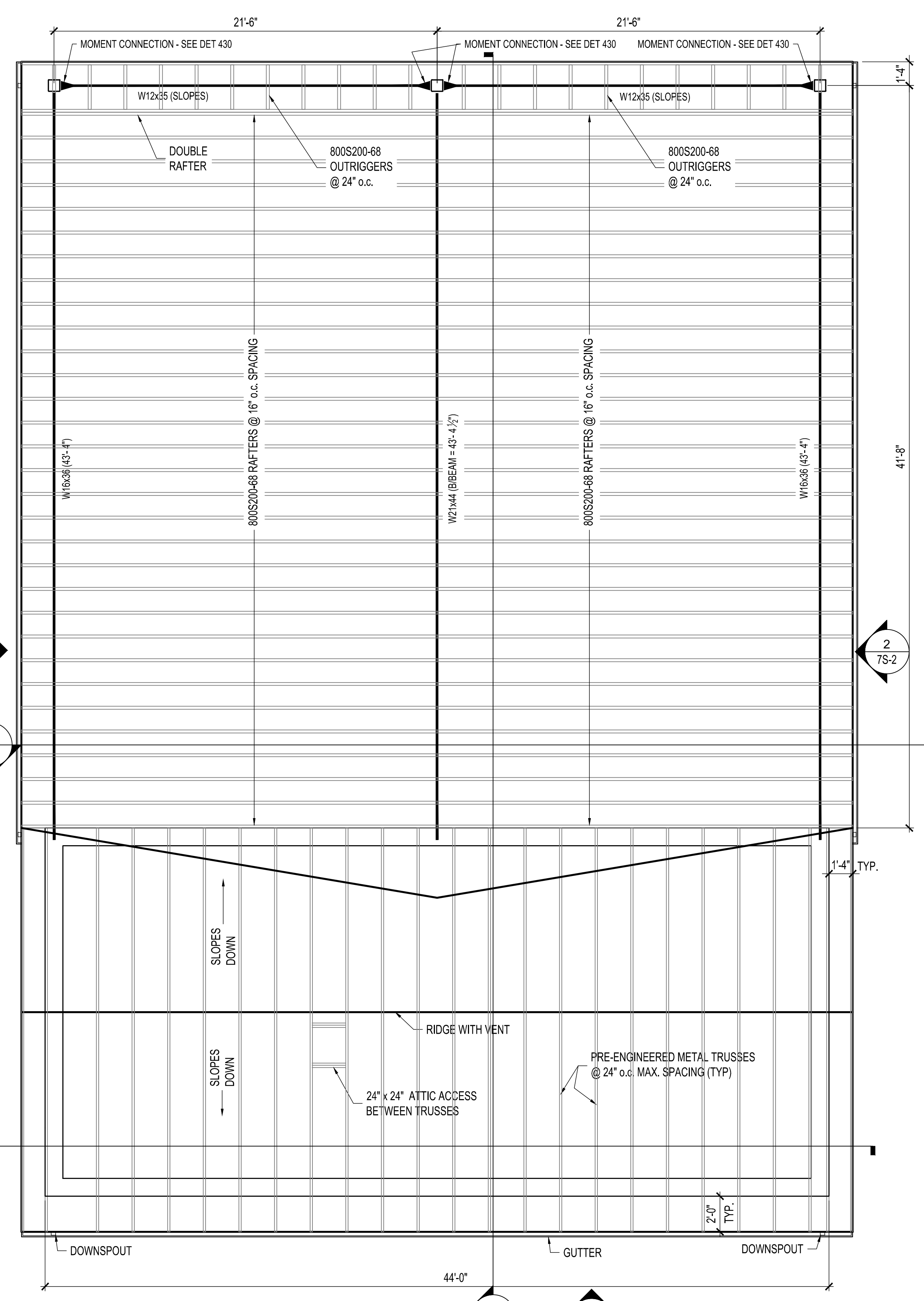
2 FRONT ELEVATION
1/4"=1'-0"



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

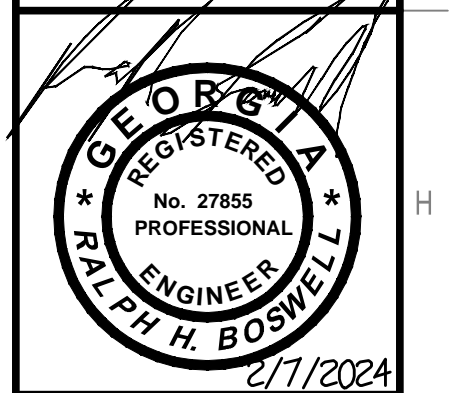
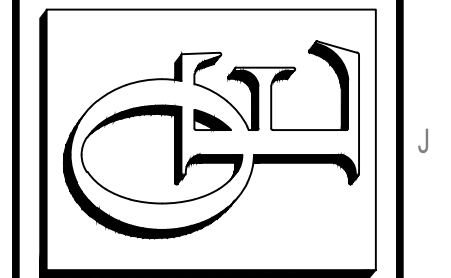


4 LEFT ELEVATION
1/4"=1'-0"



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

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WASTEWATER TREATMENT PLANT
 EXPANSION
 FOR:
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 EFFINGHAM COUNTY, GEORGIA

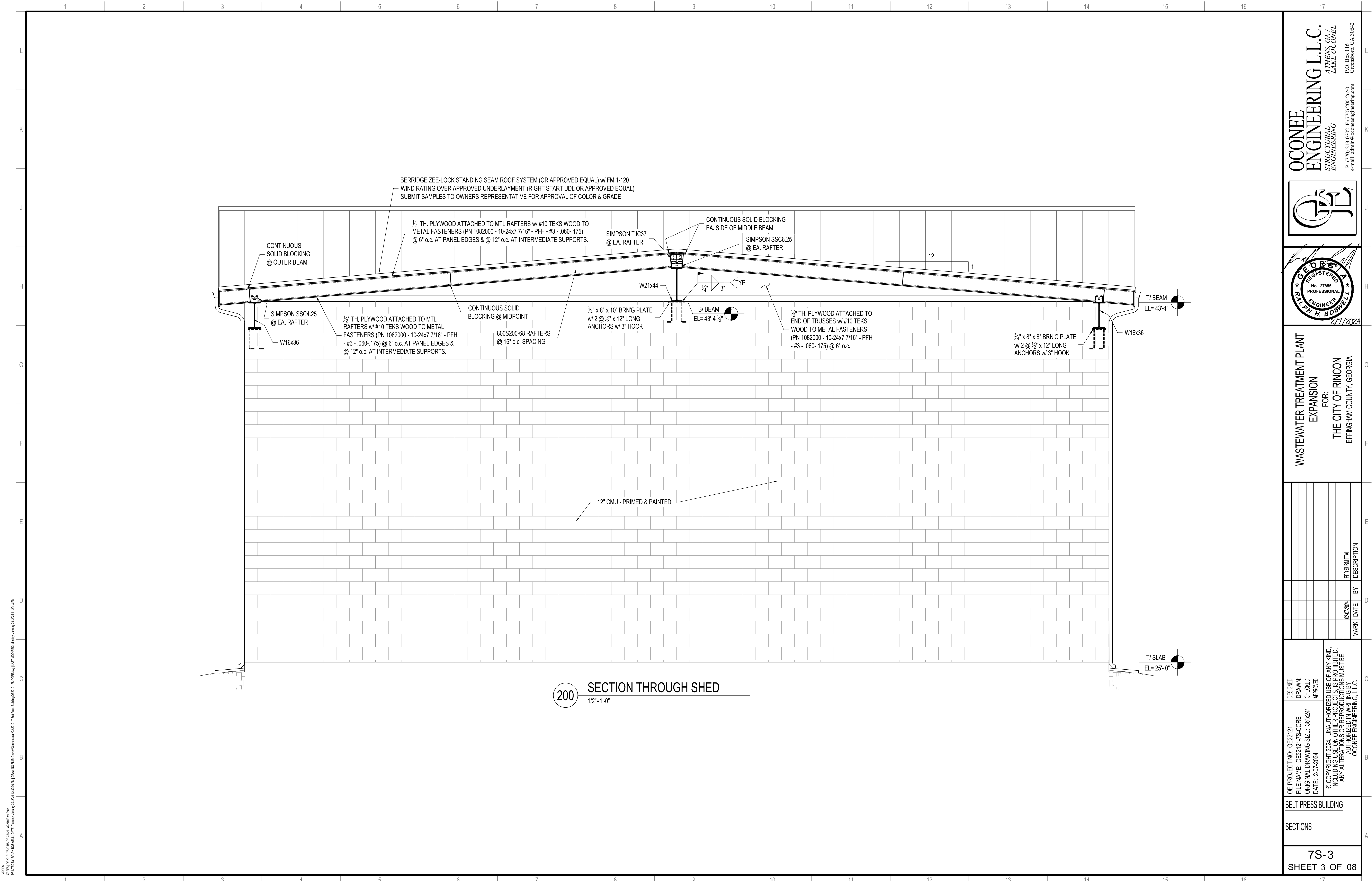
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BELT PRESS BUILDING
 ROOF PLAN & ELEVATIONS

7S-2
 SHEET 2 OF 08

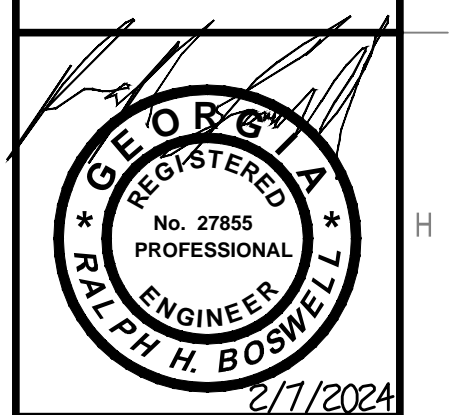
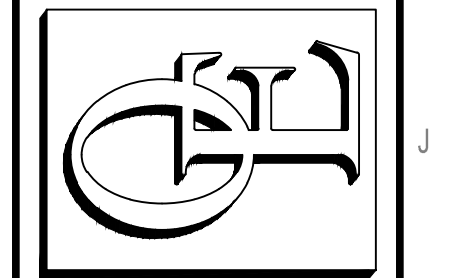
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200 SECTION THROUGH SHED
1/2"=1'-0"

NOTES:
 1. SHEET 022171-3S-CORE-04/24/2024 10:51:59 AM
 2. PLOTTED BY: RAJAN BOSEWELL DATE: Tuesday, January 30, 2024 12:23:06 AM (Drawing File: C:\work\022171-3S-CORE.dwg) LAST MODIFIED: Monday, January 29, 2024 11:12:18 AM

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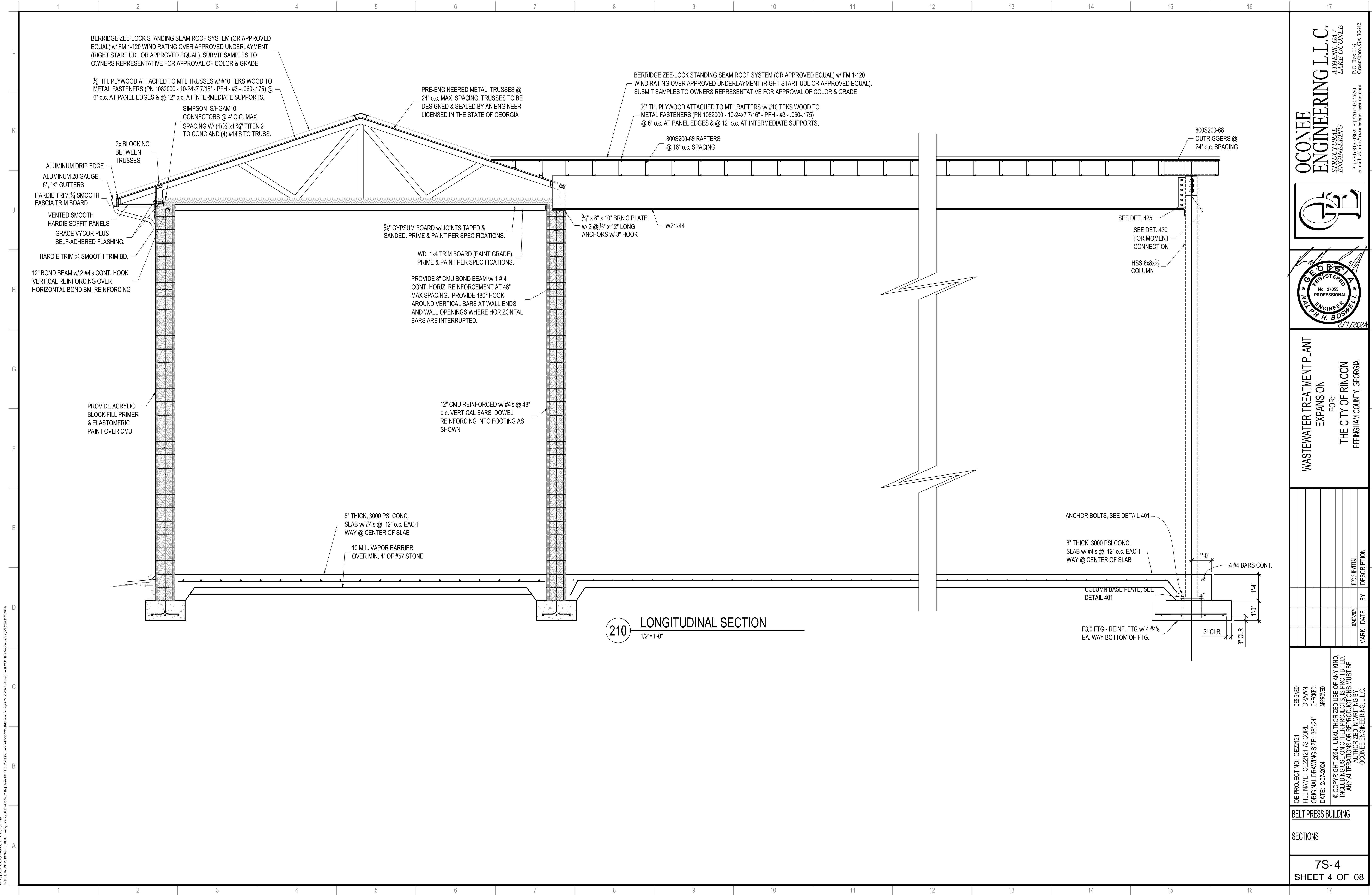


WASTEWATER TREATMENT PLANT EXPANSION
 FOR:
THE CITY OF RINCON
 EFFINGHAM COUNTY, GEORGIA

| MARK | DATE | BY | DESCRIPTION |
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| EP0 | 02/27/2024 | BOSEWELL | SUBMITTAL |

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BELT PRESS BUILDING
 SECTIONS
7S-3
 SHEET 3 OF 08



210 LONGITUDINAL SECTION
1/2"=1'-0"

BERRIDGE ZEE-LOCK STANDING SEAM ROOF SYSTEM (OR APPROVED EQUAL) w/ FM 1-120 WIND RATING OVER APPROVED UNDERLAYMENT (RIGHT START UDL OR APPROVED EQUAL). SUBMIT SAMPLES TO OWNERS REPRESENTATIVE FOR APPROVAL OF COLOR & GRADE

1/2" TH. PLYWOOD ATTACHED TO MTL TRUSSES w/ #10 TEKS WOOD TO METAL FASTENERS (PN 1082000 - 10-24x7 7/16" - PFH - #3 - .060-.175) @ 6" o.c. AT PANEL EDGES & @ 12" o.c. AT INTERMEDIATE SUPPORTS.

SIMPSON SHGAM10 CONNECTORS @ 4' O.C. MAX SPACING w/ (4) 3/4"x1 3/4" TITEN 2 TO CONC AND (4) #14'S TO TRUSS.

PRE-ENGINEERED METAL TRUSSES @ 24" o.c. MAX. SPACING. TRUSSES TO BE DESIGNED & SEALED BY AN ENGINEER LICENSED IN THE STATE OF GEORGIA

BERRIDGE ZEE-LOCK STANDING SEAM ROOF SYSTEM (OR APPROVED EQUAL) w/ FM 1-120 WIND RATING OVER APPROVED UNDERLAYMENT (RIGHT START UDL OR APPROVED EQUAL). SUBMIT SAMPLES TO OWNERS REPRESENTATIVE FOR APPROVAL OF COLOR & GRADE

1/2" TH. PLYWOOD ATTACHED TO MTL RAFTERS w/ #10 TEKS WOOD TO METAL FASTENERS (PN 1082000 - 10-24x7 7/16" - PFH - #3 - .060-.175) @ 6" o.c. AT PANEL EDGES & @ 12" o.c. AT INTERMEDIATE SUPPORTS.

800S200-68 RAFTERS @ 16" o.c. SPACING

800S200-68 OUTRIGGERS @ 24" o.c. SPACING

2x BLOCKING BETWEEN TRUSSES

ALUMINUM DRIP EDGE
ALUMINUM 28 GAUGE, 6", "K" GUTTERS

HARDIE TRIM 1/4" SMOOTH FASCIA TRIM BOARD

VENTED SMOOTH HARDIE SOFFIT PANELS
GRACE VYCOR PLUS SELF-ADHERED FLASHING.

HARDIE TRIM 1/4" SMOOTH TRIM BD.

12" BOND BEAM w/ 2 #4's CONT. HOOK VERTICAL REINFORCING OVER HORIZONTAL BOND BM. REINFORCING

5/8" GYPSUM BOARD w/ JOINTS TAPED & SANDED. PRIME & PAINT PER SPECIFICATIONS.

WD. 1x4 TRIM BOARD (PAINT GRADE). PRIME & PAINT PER SPECIFICATIONS.

PROVIDE 8" CMU BOND BEAM w/ 1 #4 CONT. HORIZ. REINFORCEMENT AT 48" MAX SPACING. PROVIDE 180° HOOK AROUND VERTICAL BARS AT WALL ENDS AND WALL OPENINGS WHERE HORIZONTAL BARS ARE INTERRUPTED.

3/4" x 8" x 10" BR'NG PLATE w/ 2 @ 1/2" x 12" LONG ANCHORS w/ 3" HOOK W21x44

SEE DET. 425

SEE DET. 430 FOR MOMENT CONNECTION

HSS 8x8x3/8 COLUMN

PROVIDE ACRYLIC BLOCK FILL PRIMER & ELASTOMERIC PAINT OVER CMU

12" CMU REINFORCED w/ #4's @ 48" o.c. VERTICAL BARS. DOWEL REINFORCING INTO FOOTING AS SHOWN

8" THICK, 3000 PSI CONC. SLAB w/ #4's @ 12" o.c. EACH WAY @ CENTER OF SLAB

10 MIL. VAPOR BARRIER OVER MIN. 4" OF #57 STONE

ANCHOR BOLTS, SEE DETAIL 401

8" THICK, 3000 PSI CONC. SLAB w/ #4's @ 12" o.c. EACH WAY @ CENTER OF SLAB

COLUMN BASE PLATE, SEE DETAIL 401

F3.0 FTG - REINF. FTG w/ 4 #4's EA. WAY BOTTOM OF FTG.

4 #4 BARS CONT.

1'-0"

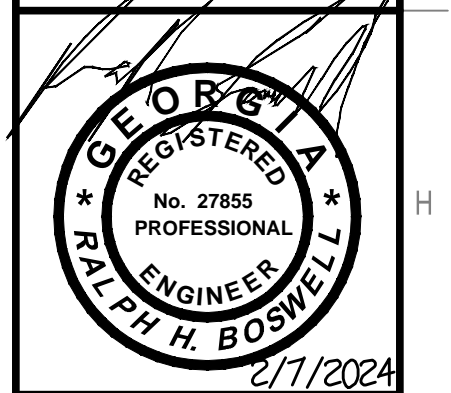
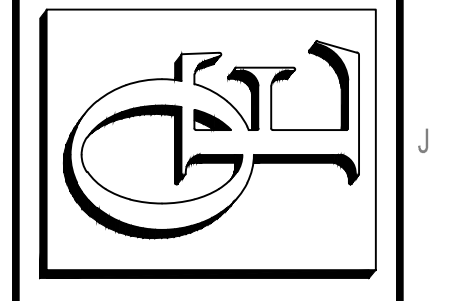
1'-4"

1'-0"

3" CLR

3" CLR

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WASTEWATER TREATMENT PLANT
EXPANSION
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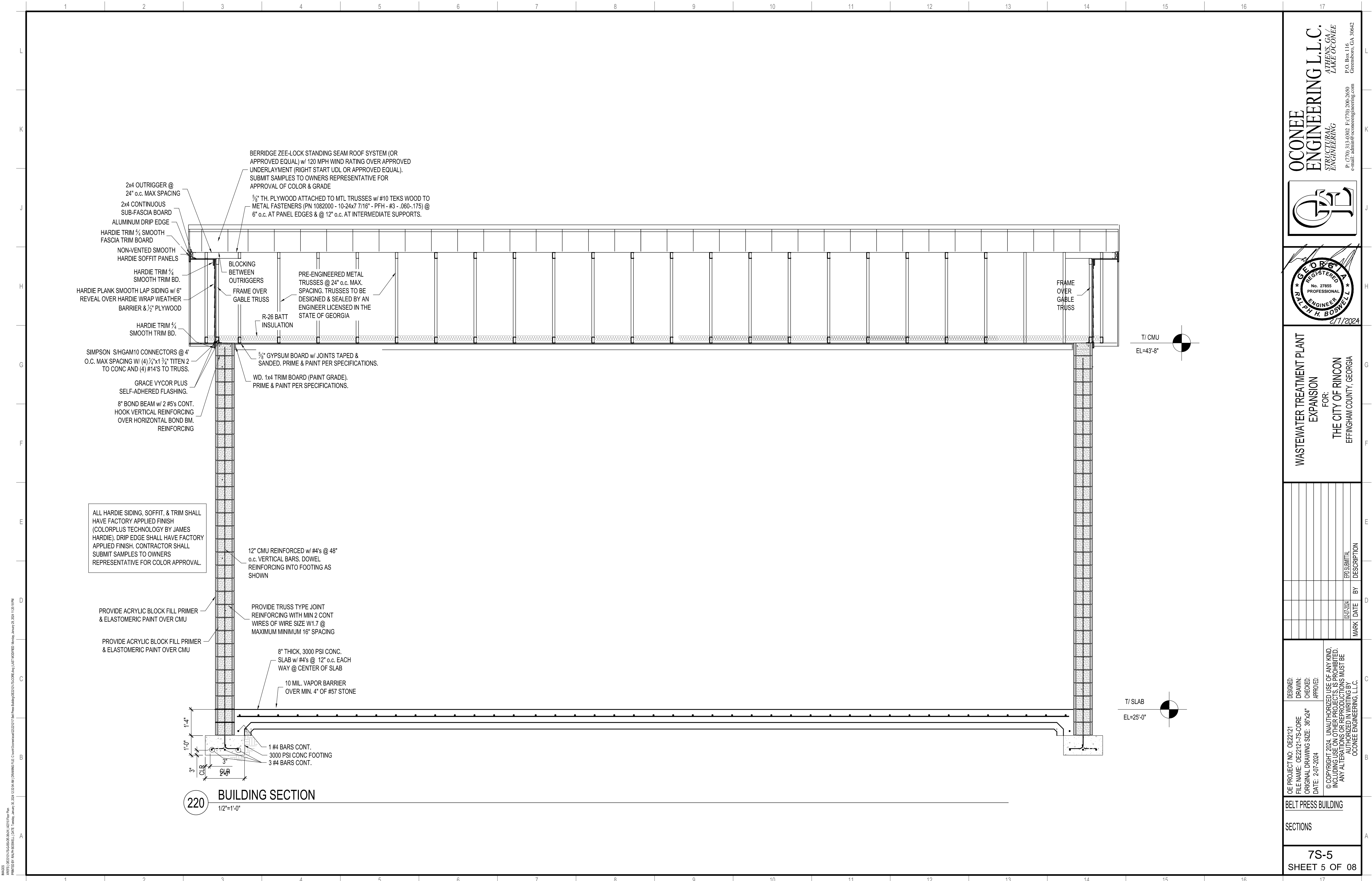
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DRAWN: 02/22/21-YS-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 2-07-2024

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BELT PRESS BUILDING
SECTIONS
7S-4
SHEET 4 OF 08

PLOTTED BY: RALPH BOSWELL DATE: Tuesday, January 30, 2024 12:20:02 PM (User: RALPH BOSWELL) FILE: C:\work\occonee\2024\2101\2101.dwg LAST MODIFIED: Monday, January 29, 2024 11:32:18 PM



220 BUILDING SECTION
1/2"=1'-0"

BERRIDGE ZEE-LOCK STANDING SEAM ROOF SYSTEM (OR APPROVED EQUAL) w/ 120 MPH WIND RATING OVER APPROVED UNDERLAYMENT (RIGHT START UDL OR APPROVED EQUAL).
SUBMIT SAMPLES TO OWNERS REPRESENTATIVE FOR APPROVAL OF COLOR & GRADE

5/8" TH. PLYWOOD ATTACHED TO MTL TRUSSES w/ #10 TEKS WOOD TO METAL FASTENERS (PN 1082000 - 10-24x7 7/16" - PFH - #3 - .060-.175) @ 6" o.c. AT PANEL EDGES & @ 12" o.c. AT INTERMEDIATE SUPPORTS.

PRE-ENGINEERED METAL TRUSSES @ 24" o.c. MAX. SPACING. TRUSSES TO BE DESIGNED & SEALED BY AN ENGINEER LICENSED IN THE STATE OF GEORGIA

BLOCKING BETWEEN OUTRIGGERS

FRAME OVER GABLE TRUSS

R-26 BATT INSULATION

5/8" GYPSUM BOARD w/ JOINTS TAPED & SANDED. PRIME & PAINT PER SPECIFICATIONS.

WD. 1x4 TRIM BOARD (PAINT GRADE). PRIME & PAINT PER SPECIFICATIONS.

12" CMU REINFORCED w/ #4's @ 48" o.c. VERTICAL BARS. DOWEL REINFORCING INTO FOOTING AS SHOWN

PROVIDE TRUSS TYPE JOINT REINFORCING WITH MIN 2 CONT WIRES OF WIRE SIZE W1.7 @ MAXIMUM MINIMUM 16" SPACING

8" THICK, 3000 PSI CONC. SLAB w/ #4's @ 12" o.c. EACH WAY @ CENTER OF SLAB

10 MIL. VAPOR BARRIER OVER MIN. 4" OF #57 STONE

1 #4 BARS CONT. 3000 PSI CONC FOOTING 3 #4 BARS CONT.

- 2x4 OUTRIGGER @ 24" o.c. MAX SPACING
- 2x4 CONTINUOUS SUB-FASCIA BOARD
- ALUMINUM DRIP EDGE
- HARDIE TRIM 1/4" SMOOTH FASCIA TRIM BOARD
- NON-VENTED SMOOTH HARDIE SOFFIT PANELS
- HARDIE TRIM 1/4" SMOOTH TRIM BD.
- HARDIE PLANK SMOOTH LAP SIDING w/ 6" REVEAL OVER HARDIE WRAP WEATHER BARRIER & 1/2" PLYWOOD
- HARDIE TRIM 1/4" SMOOTH TRIM BD.
- SIMPSON S/HGAM10 CONNECTORS @ 4' O.C. MAX SPACING W/ (4) 1/2"x1 3/4" TITEN 2 TO CONC AND (4) #14'S TO TRUSS.
- GRACE VYCOR PLUS SELF-ADHERED FLASHING.
- 8" BOND BEAM w/ 2 #5's CONT. HOOK VERTICAL REINFORCING OVER HORIZONTAL BOND BM. REINFORCING

ALL HARDIE SIDING, SOFFIT, & TRIM SHALL HAVE FACTORY APPLIED FINISH (COLORPLUS TECHNOLOGY BY JAMES HARDIE). DRIP EDGE SHALL HAVE FACTORY APPLIED FINISH. CONTRACTOR SHALL SUBMIT SAMPLES TO OWNERS REPRESENTATIVE FOR COLOR APPROVAL.

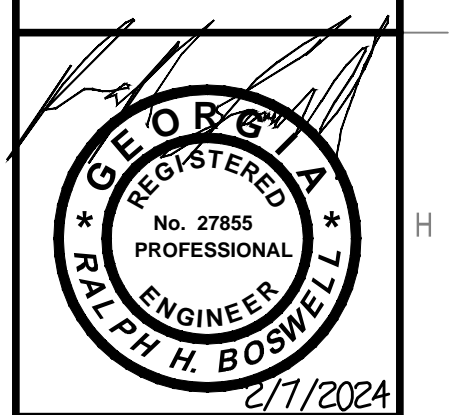
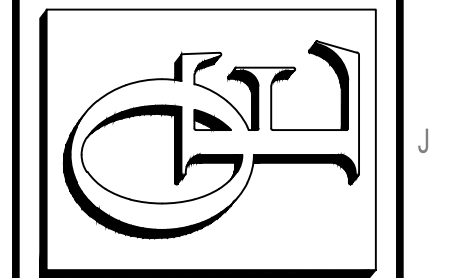
PROVIDE ACRYLIC BLOCK FILL PRIMER & ELASTOMERIC PAINT OVER CMU

PROVIDE ACRYLIC BLOCK FILL PRIMER & ELASTOMERIC PAINT OVER CMU

T/ CMU
EL=43'-8"

T/ SLAB
EL=25'-0"

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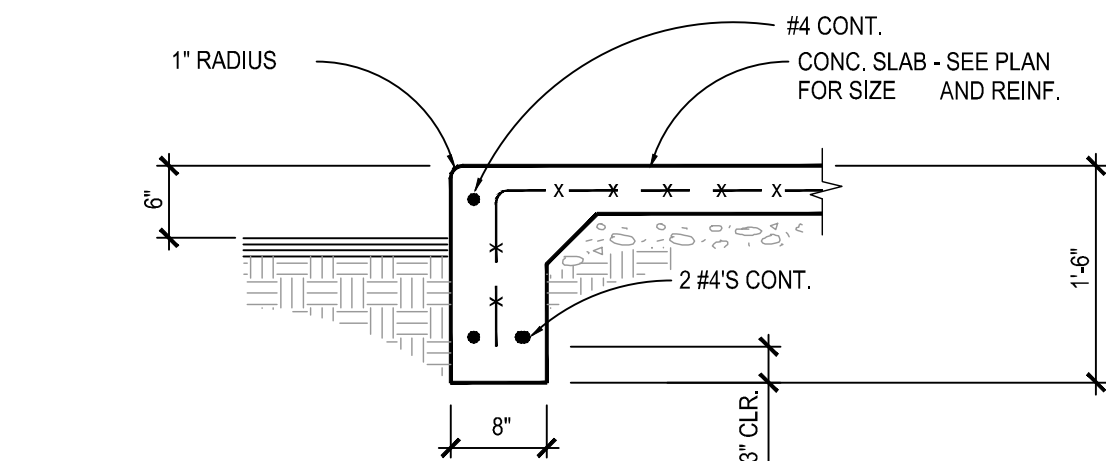
WASTEWATER TREATMENT PLANT
EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY, GEORGIA

| MARK | DATE | BY | DESCRIPTION |
|------|------------|-----------|-------------|
| EP0 | 02/27/2024 | SUBMITTAL | |

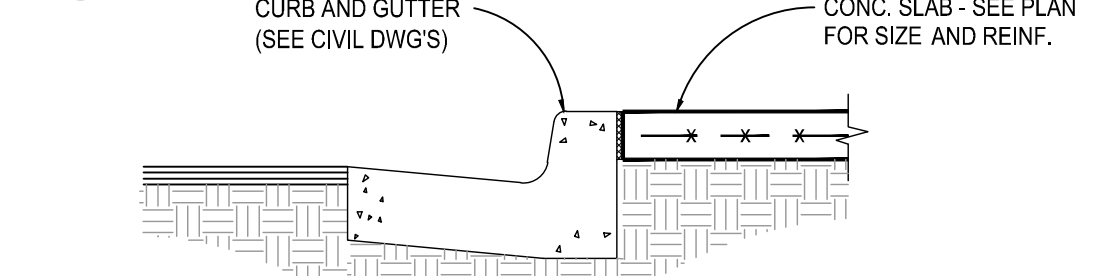
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BELT PRESS BUILDING
SECTIONS
7S-5
SHEET 5 OF 08

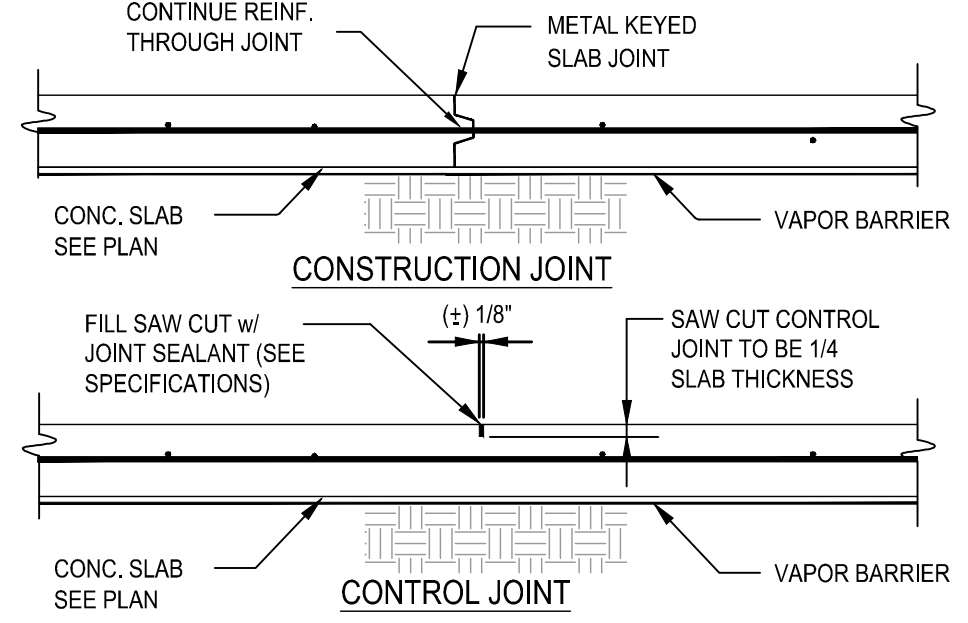
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 PLOTTED BY: RALPH H. BOSWELL | DATE: Tuesday, January 30, 2024 12:24:04 PM



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

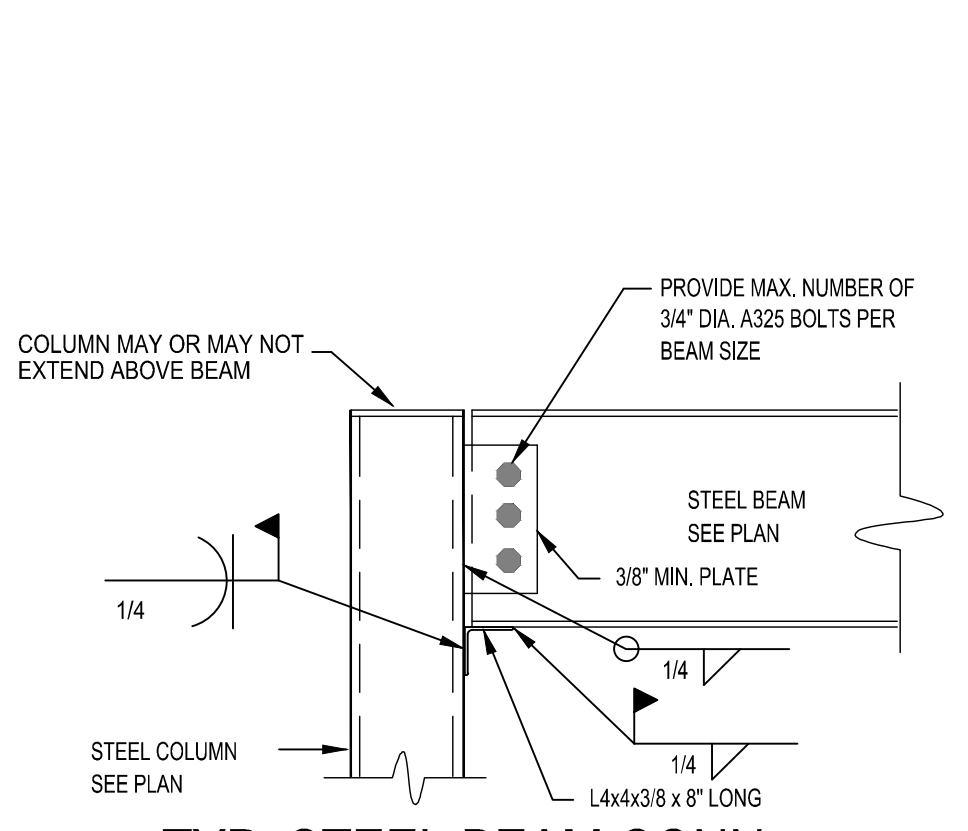


342 CURB AND GUTTER
N.T.S.

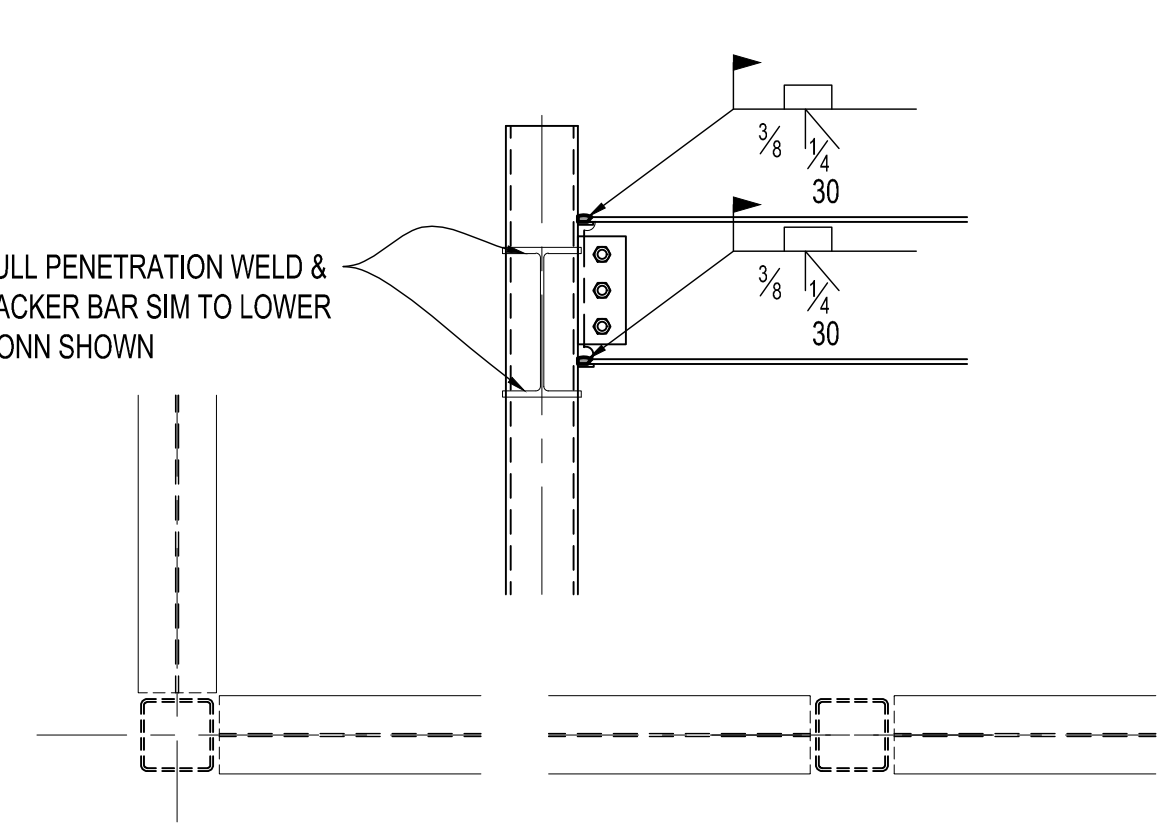


344 8" SLAB JOINT DETAILS
N.T.S.

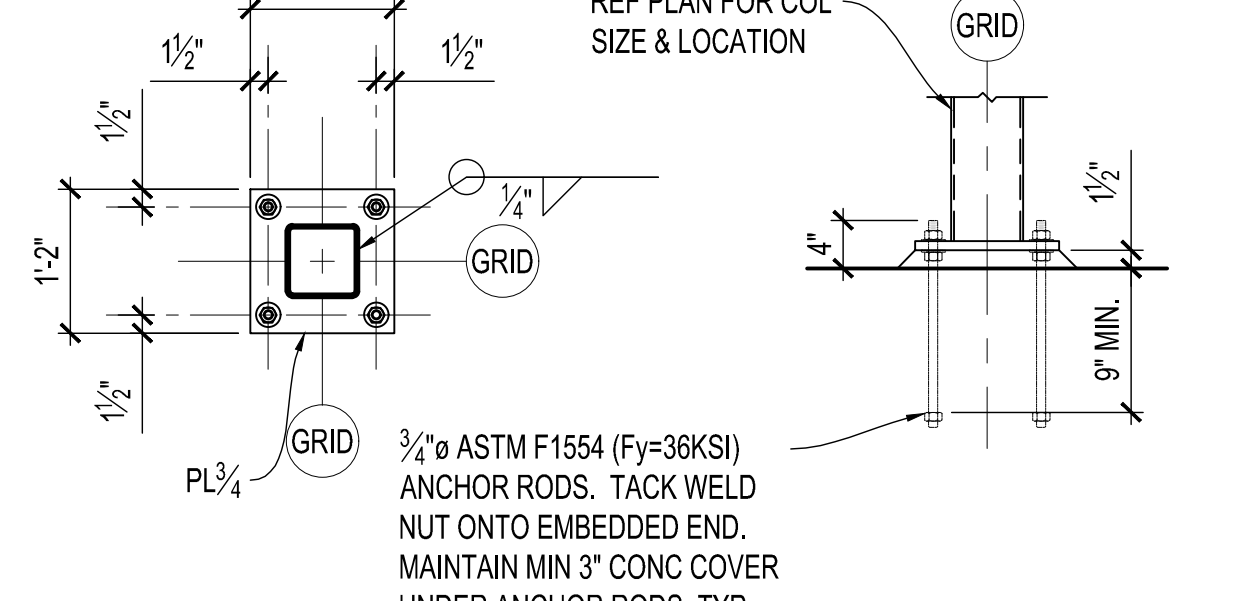
NOTES:
SAW CUT AS SOON AS SLAB CAN SUPPORT WEIGHT.
CONTROL JOINTS MAY BE REPLACED WITH CONSTRUCTION JOINTS.
CONTROL JOINTS SHALL BE SPACED AT NO MORE THAN 24'-0" O.C.
SLAB AREAS BOUNDED BY THESE JOINTS, SHALL HAVE THE LENGTH NO MORE THAN 2x THE WIDTH.



425 TYP. STEEL BEAM CONN.
N.T.S.

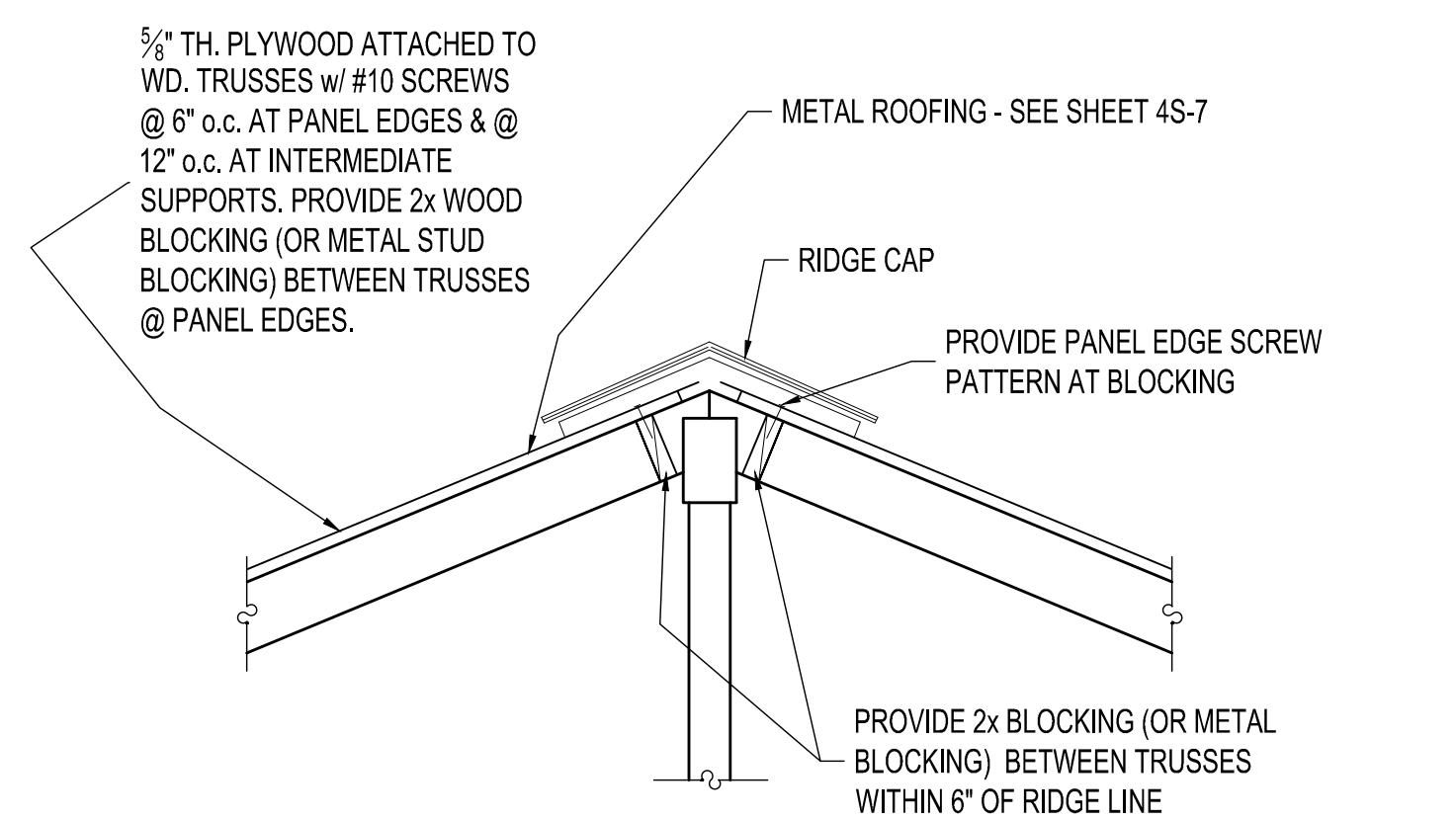


430 MOMENT CONNECTION
N.T.S. DENOTES MOMENT CONNECTION

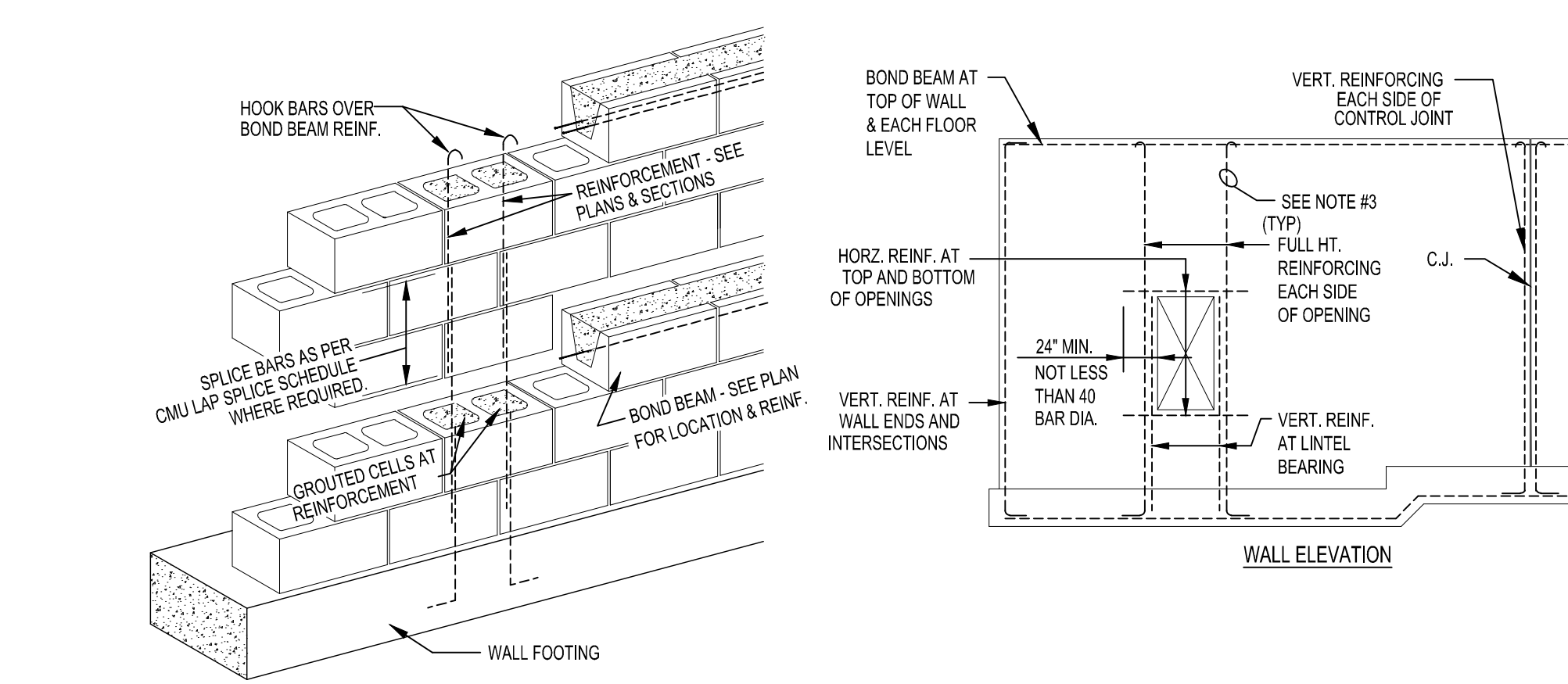


400 BASE PLATE DETAIL
3/4"=1'-0"

NOTES:
1. COLUMN TO BE CENTERED ON BASE PLATE, TYP.
2. ANCHOR ROD PROJECTION TO BE 4", TYP UNO.
3. 1/8" HOLES FOR ANCHOR RODS W/ ASTM F844 WASHERS, TYP.
4. TO ALLOW FOR ADDITIONAL TOLERANCE FOR ANCHOR ROD PLACEMENT, MAX 1/16" HOLES MAY BE USED FOR ANCHOR RODS W/ A36 PL 1/4"x2x0'-2" PLATE WASHERS.



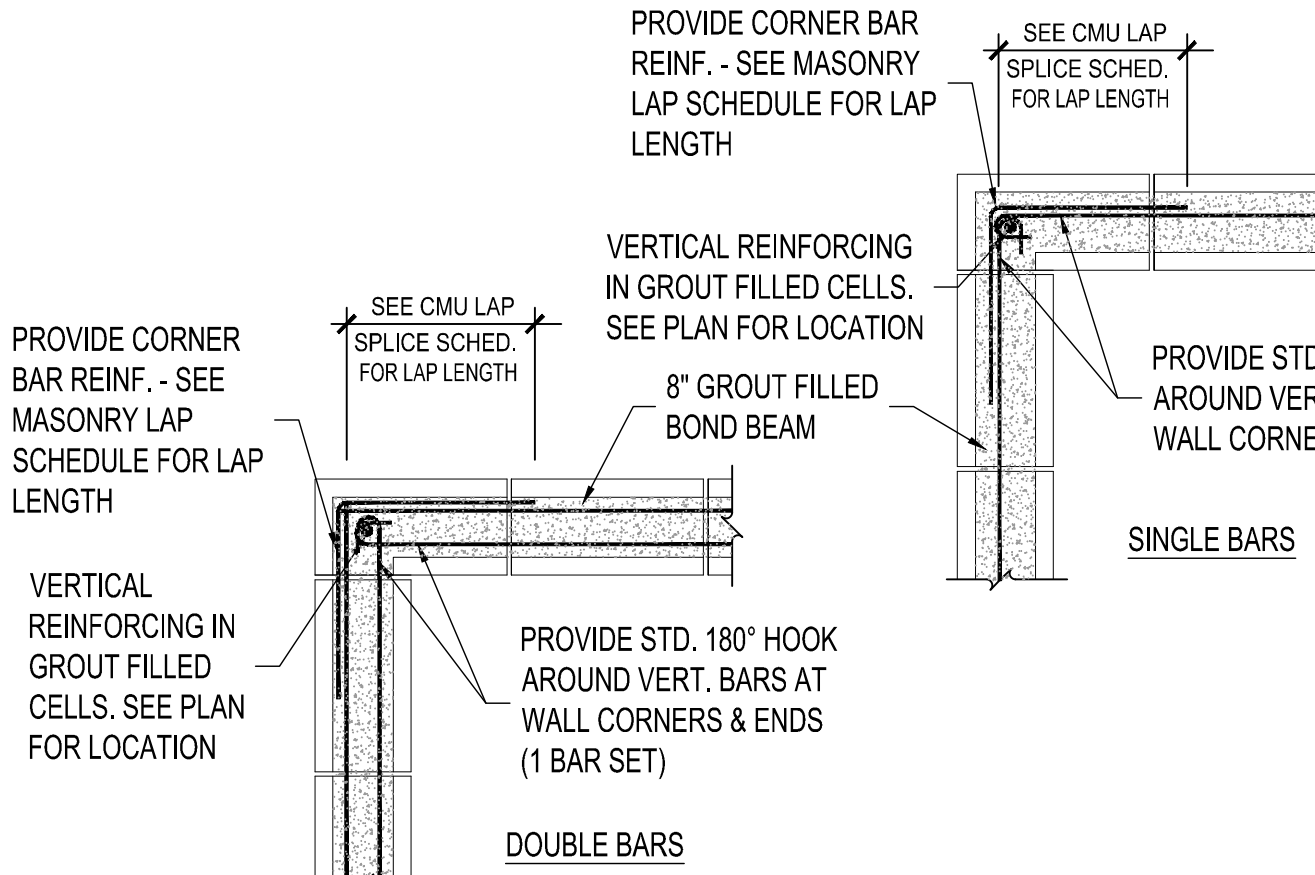
368 TRUSS RIDGE DETAIL
N.T.S.



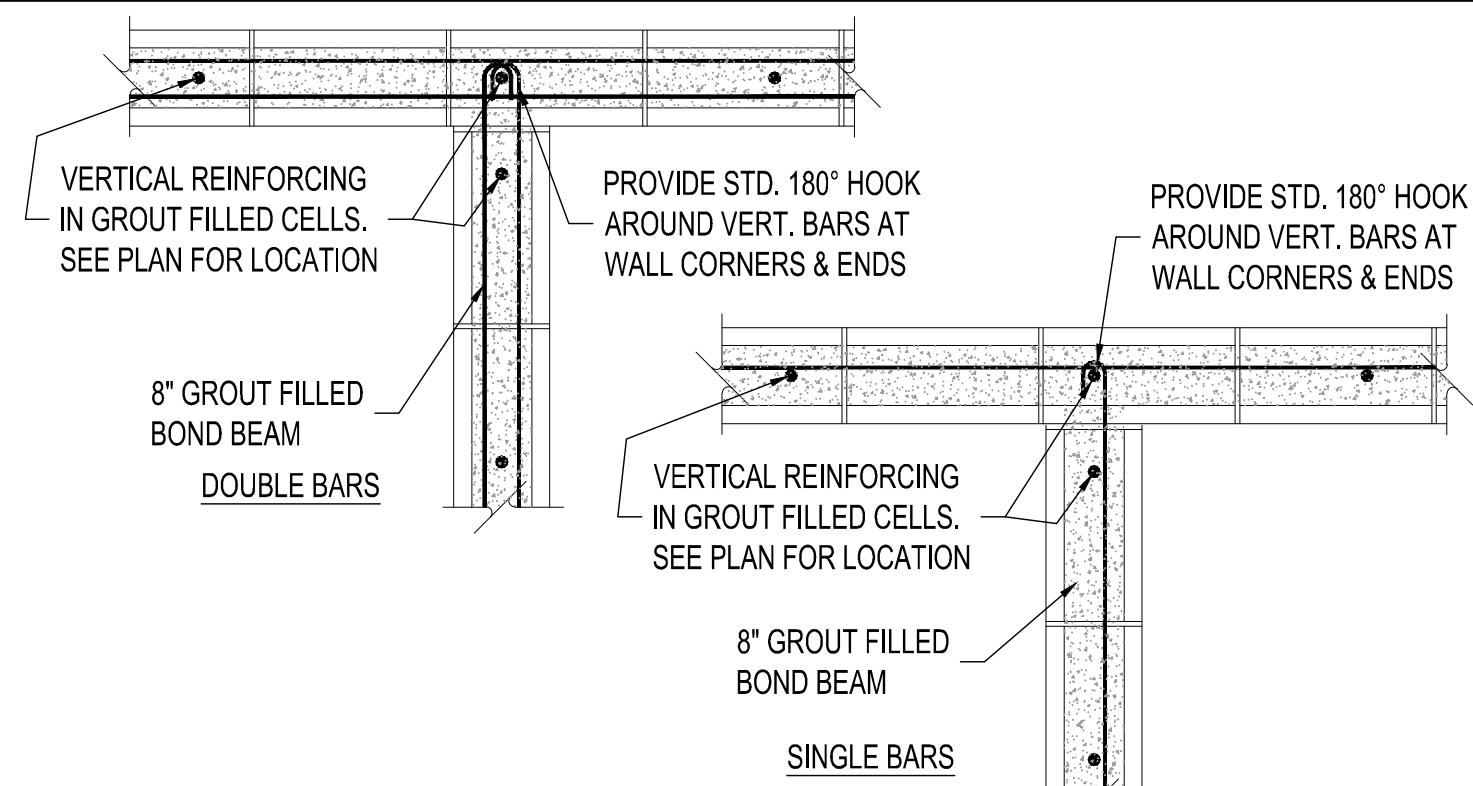
370 REINFORCED MASONRY CONSTRUCTION & REINFORCING
N.T.S.

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 FILL CELLS TO 1" 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.



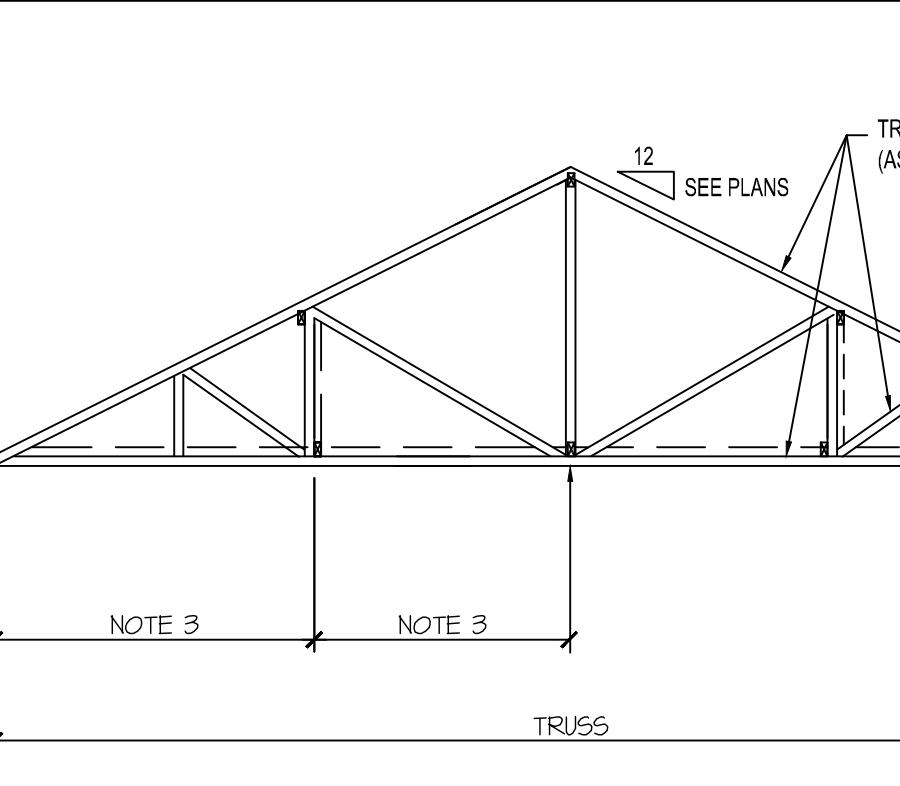
375 CMU CORNER WALL DETAIL
N.T.S.



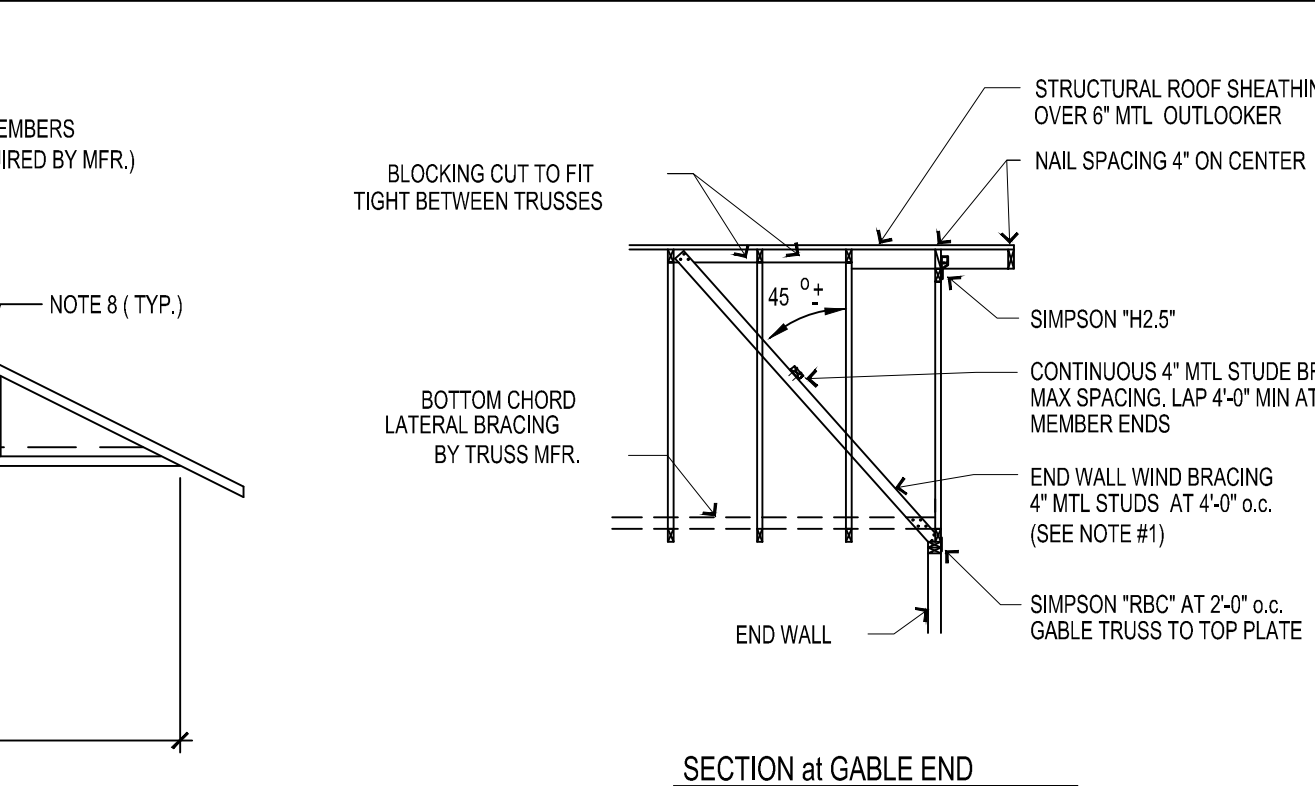
376 CMU INTERSECTING WALL DETAIL
N.T.S.



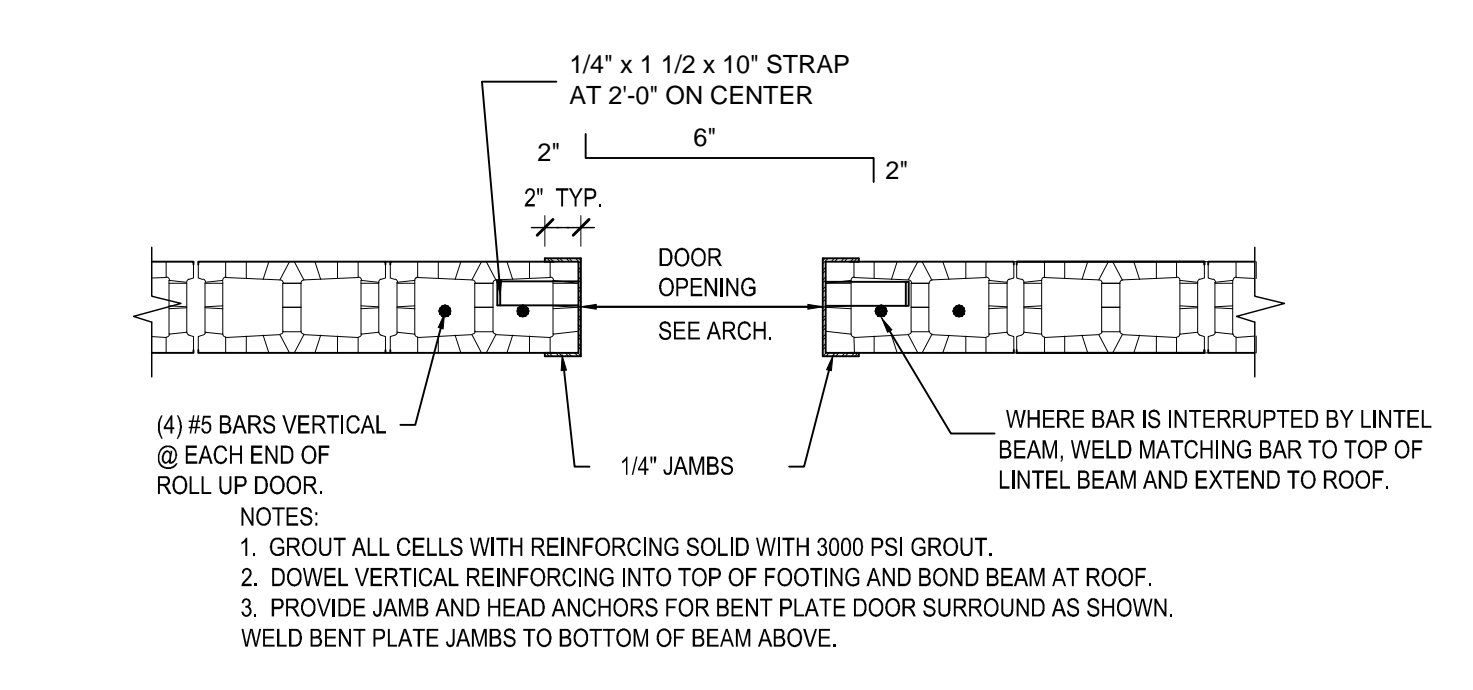
373 WALL REINFORCING @ OPENING w/ STEEL LINTEL
N.T.S.



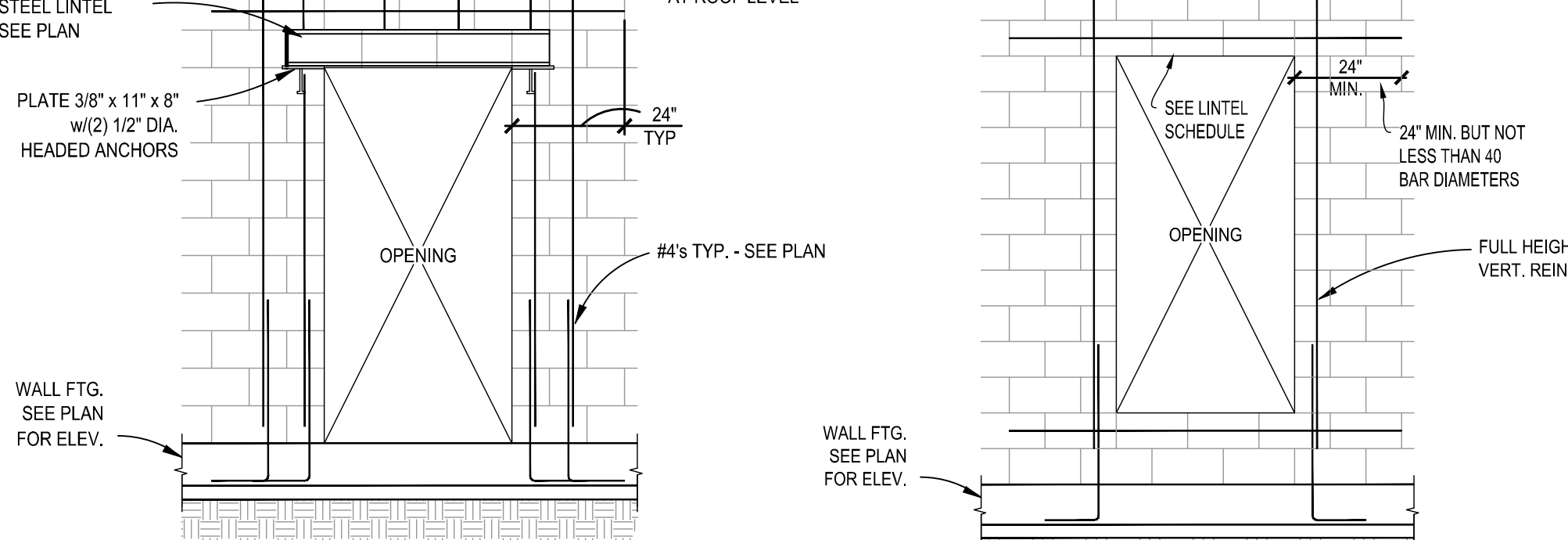
373b WALL REINF. @ OPENING
N.T.S.



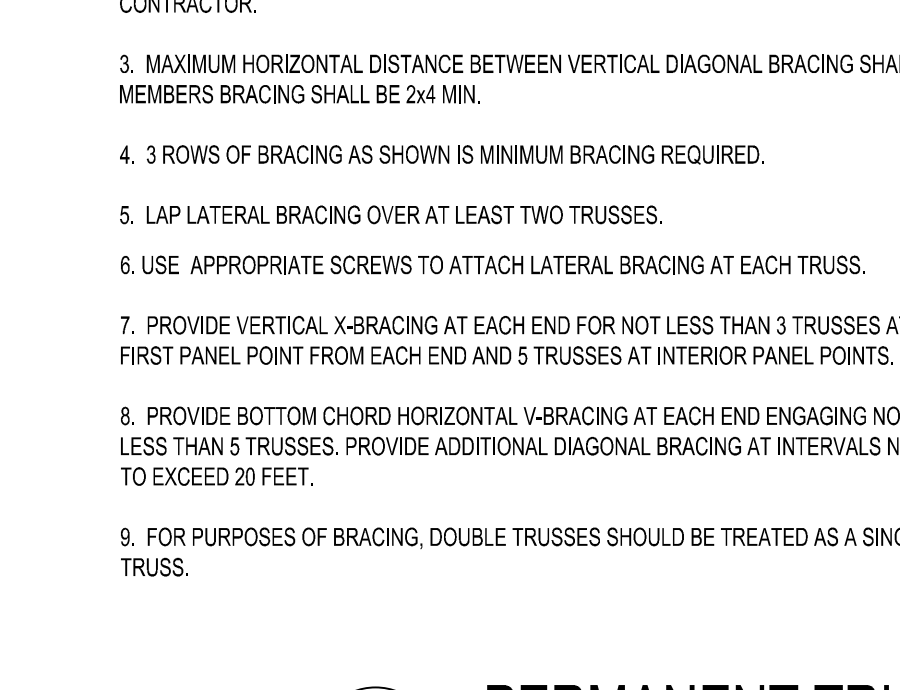
380 PERMANENT TRUSS BRACING DETAIL
N.T.S.



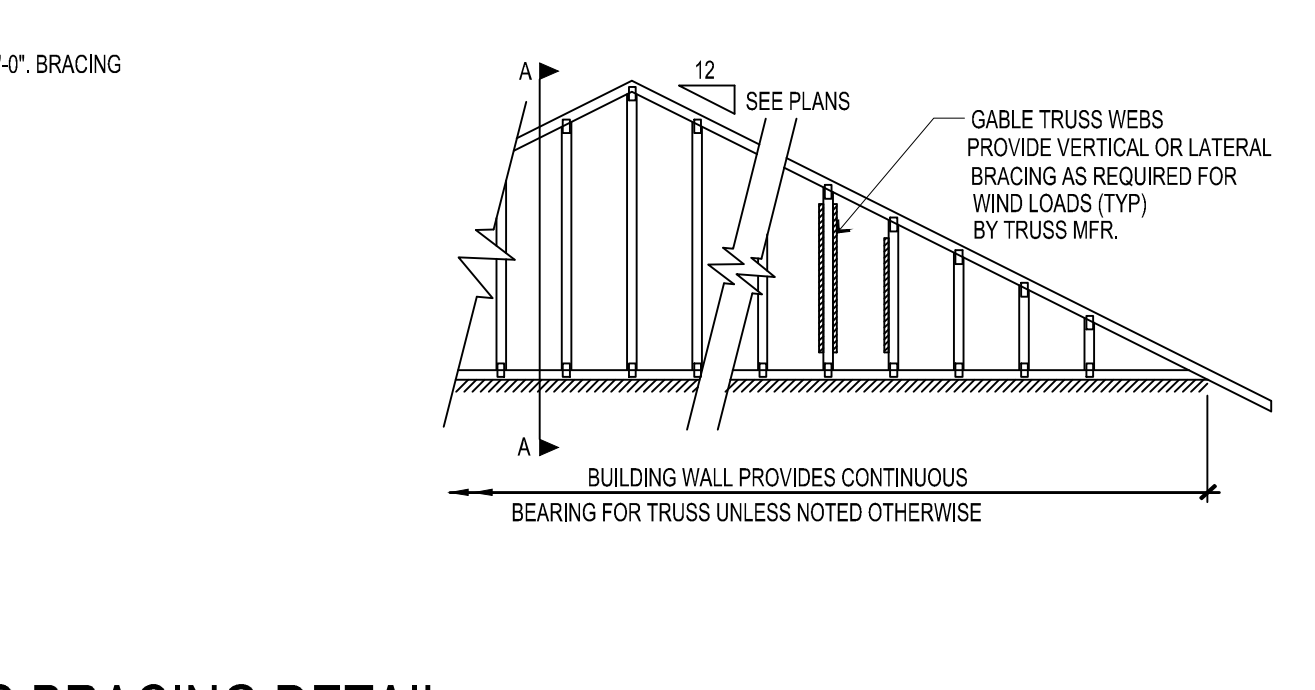
372 ROLL-UP DOOR JAMB REINF.
N.T.S.



377 WALL REINFORCING @ OPENING w/ STEEL LINTEL
N.T.S.



378 WALL REINFORCING @ OPENING
N.T.S.



379 WALL REINFORCING @ OPENING
N.T.S.

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REGISTERED PROFESSIONAL ENGINEER
No. 27855
RALPH H. BOSWELL
2/17/2024

WASTEWATER TREATMENT PLANT EXPANSION FOR THE CITY OF RINCON EFFINGHAM COUNTY, GEORGIA

| MARK | DATE | BY | DESCRIPTION |
|------------|------|--------------|-------------|
| 02-07-2024 | | EPD/SUBMITAL | |

DESIGNED: 02/22/21
DRAWN: 02/21/21-YS-CORE
ORIGINAL DRAWING SIZE: 36"x24"
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DATE: 2-07-2024

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DOOR SCHEDULE

| DOOR NUMBER | DOOR LOCATION | DOORS | | | | | | FRAME | | | | | | LABEL | HDW. SET (NOTE 1) | REMARKS | DOOR NUMBER |
|-------------|------------------|-------|------------|-------------|--------|------------|-------------|--------|------|----------|--------|----------|----------|-------|-------------------|---------|-------------|
| | | TYPE | SIZE WIDTH | SIZE HEIGHT | THICK | MAT'L | FINISH | SIZE | TYPE | MATERIAL | FINISH | HEAD | JAMB | | | | |
| 701 | BELT PRESS BLDG. | A | 10'-0" | 10'-0" | - | STL | PREFINISHED | - | - | - | - | 3/8S-3 | 372/8S-5 | - | - | - | 801 |
| 702 | BELT PRESS BLDG. | B | 3'-0" | 7'-0" | 1-3/4" | FIBERGLASS | PAINT | 7-1/4" | 1 | H.M. | PAINT | H-1/8S-6 | J-1/8S-6 | - | 45 MIN. | 1 | 802 |

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.

ROOM FINISH SCHEDULE

| KEY | FLOOR | BASE | WALLS | CEILING | NOTES |
|-----|-----------------|------|-----------------|-------------------|--------|
| ⊗ | SEALED CONCRETE | NONE | PAINTED CMU P-1 | PAINTED GYPSUM BD | HEIGHT |
| NO. | NAME | | | | |
| | BELT PRESS ROOM | | | | 18'-8" |

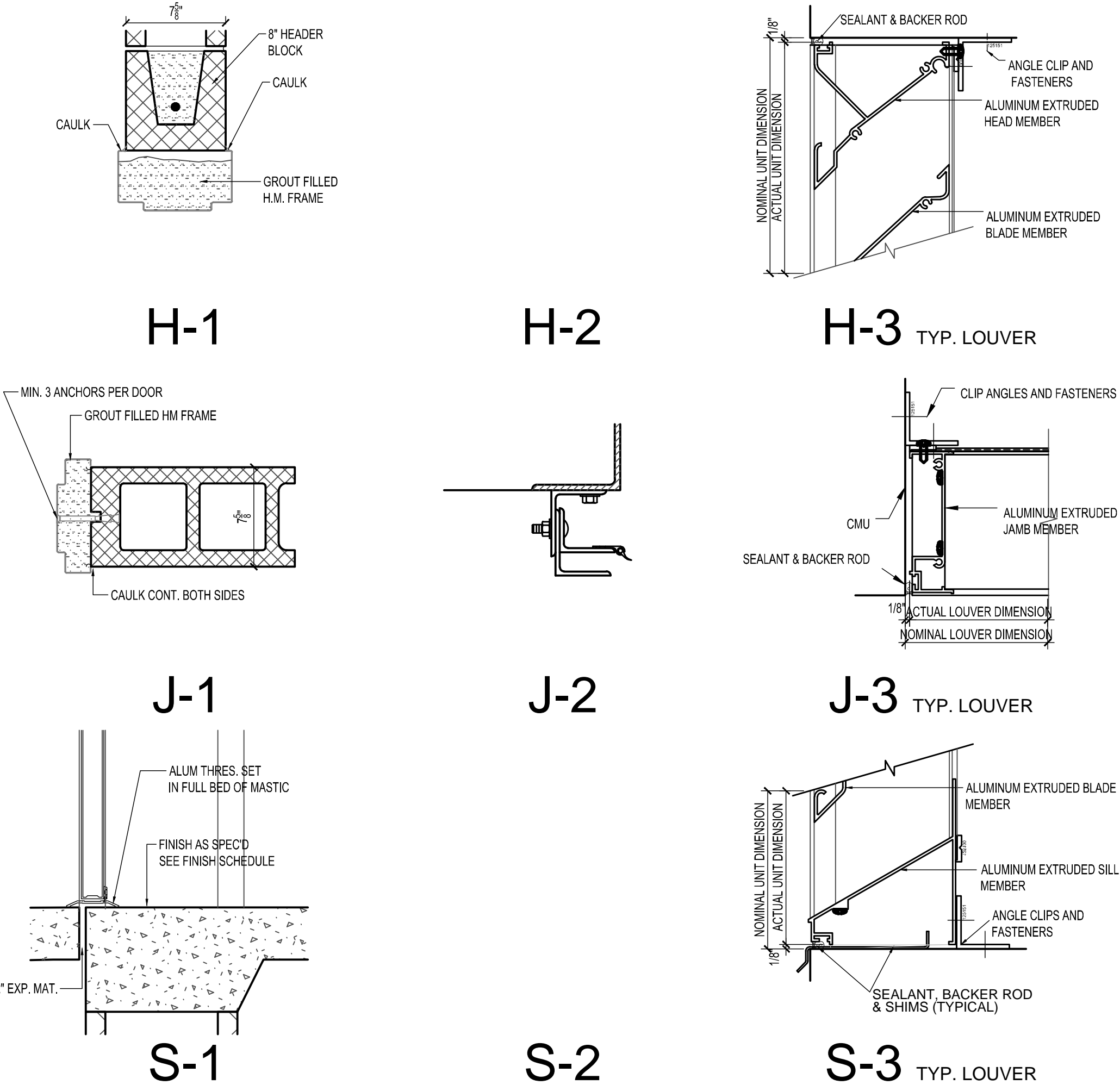
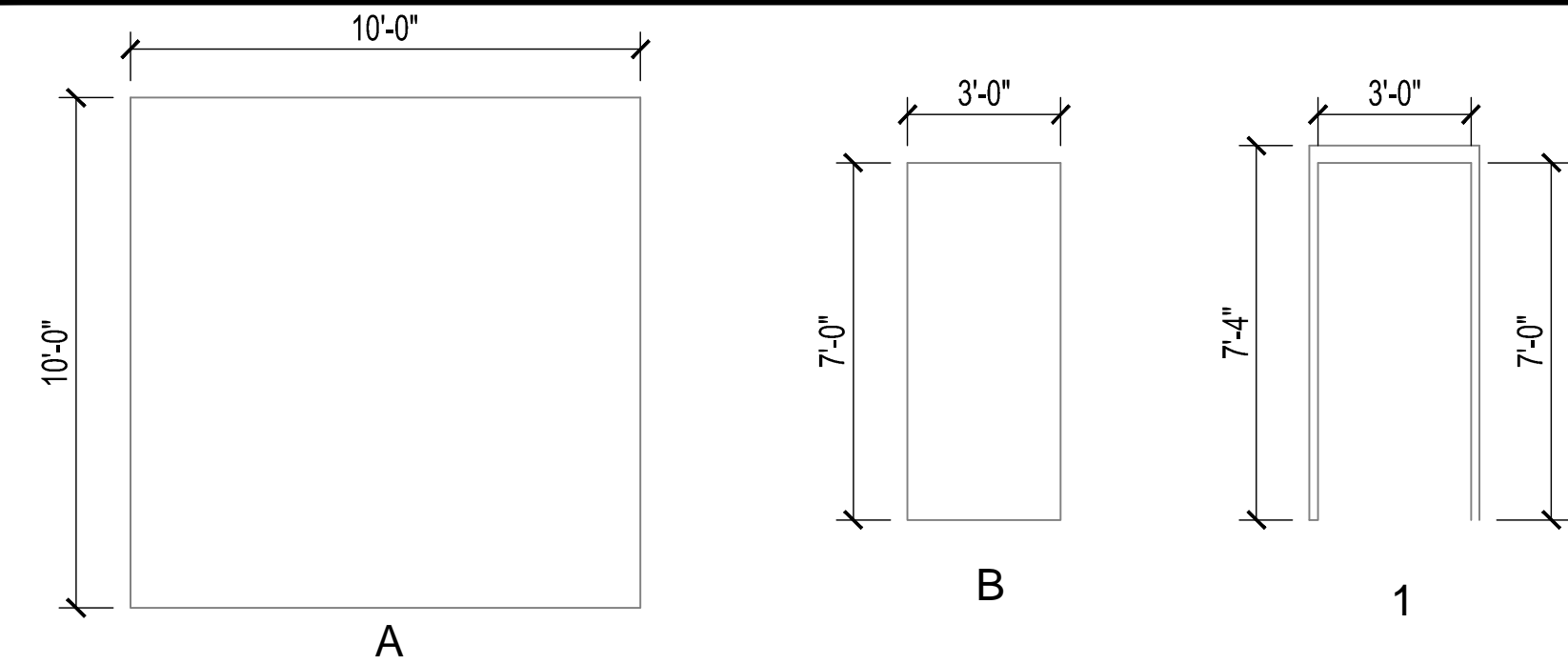
ROOM FINISH NOTES

LIST OF FINISHES

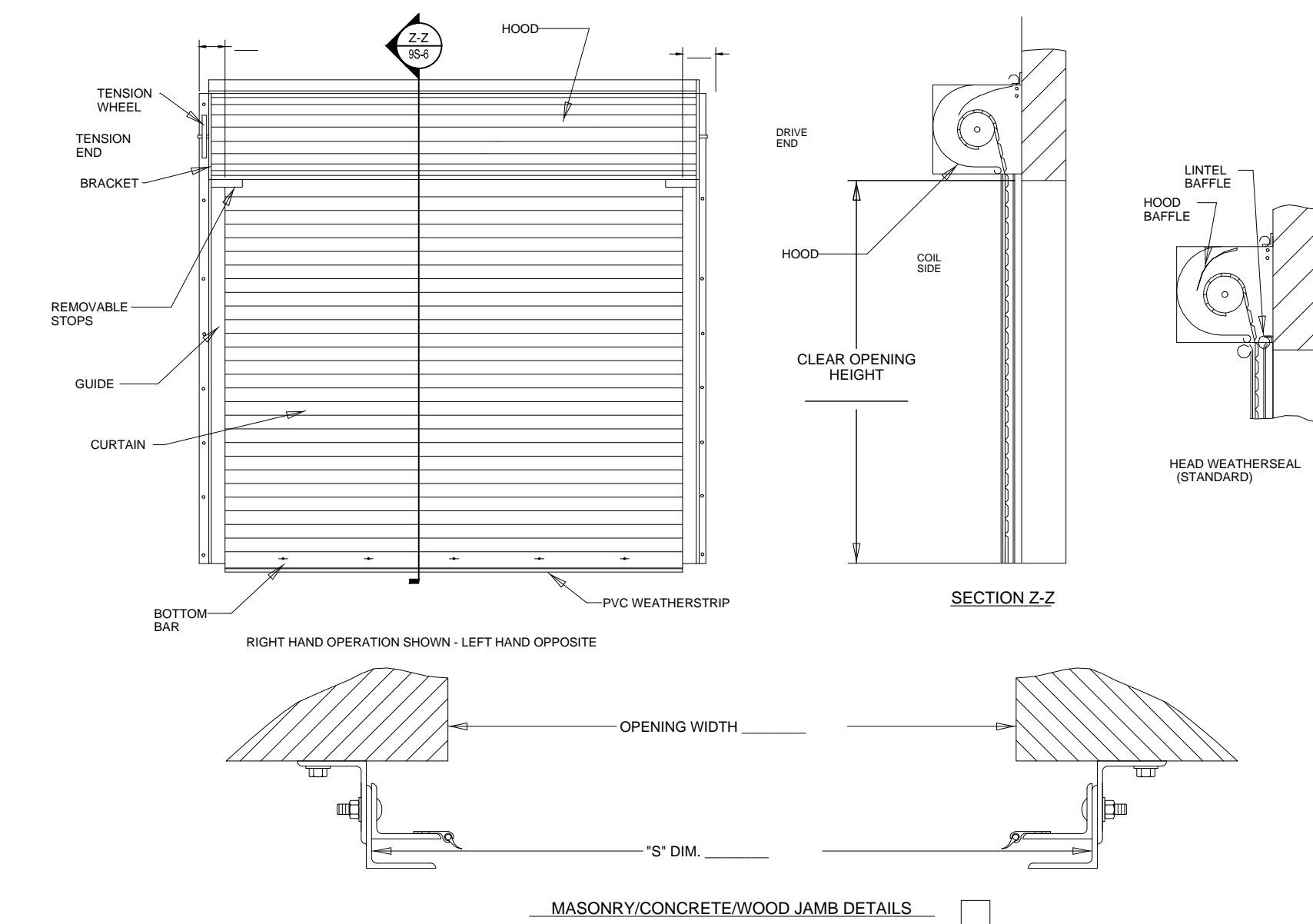
| ITEM | MANUFACTURER | SPECIFICATION | COLOR NUMBER | COLOR | REMARKS |
|------|------------------|---------------|--------------|----------|---------|
| P-1 | SHERWIN WILLIAMS | FLAT | - | BY OWNER | WALL |
| P-2 | SHERWIN WILLIAMS | FLAT | - | BY OWNER | CEILING |

DOOR AND LOUVER DETAILS

DOOR AND LOUVER DETAILS



ROLL UP DOOR DETAIL



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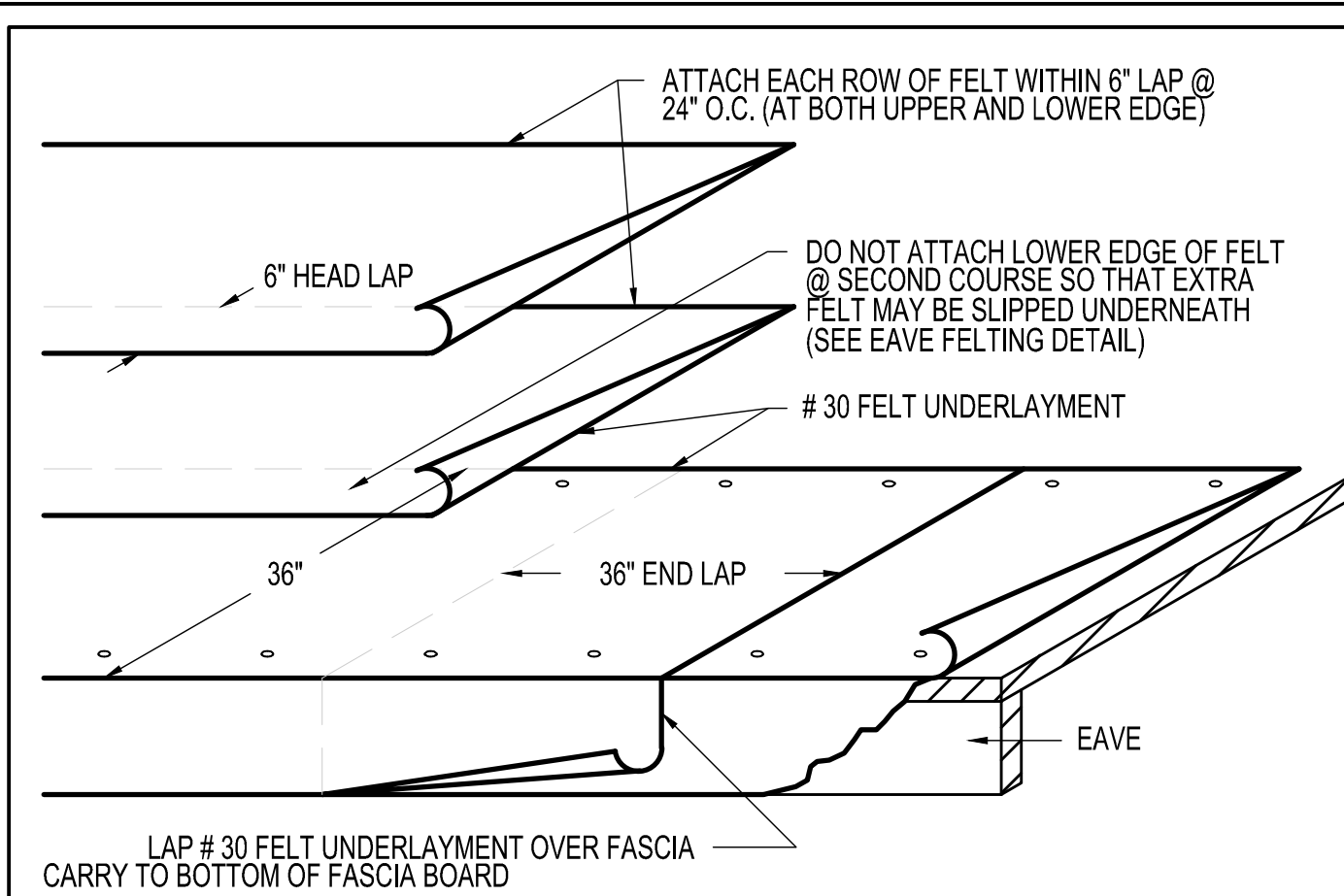
WASTEWATER TREATMENT PLANT
 EXPANSION
 FOR:
 THE CITY OF RINCON
 EFFINGHAM COUNTY, GEORGIA

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| EPD SUBMITTAL | 02/27/2024 | | |

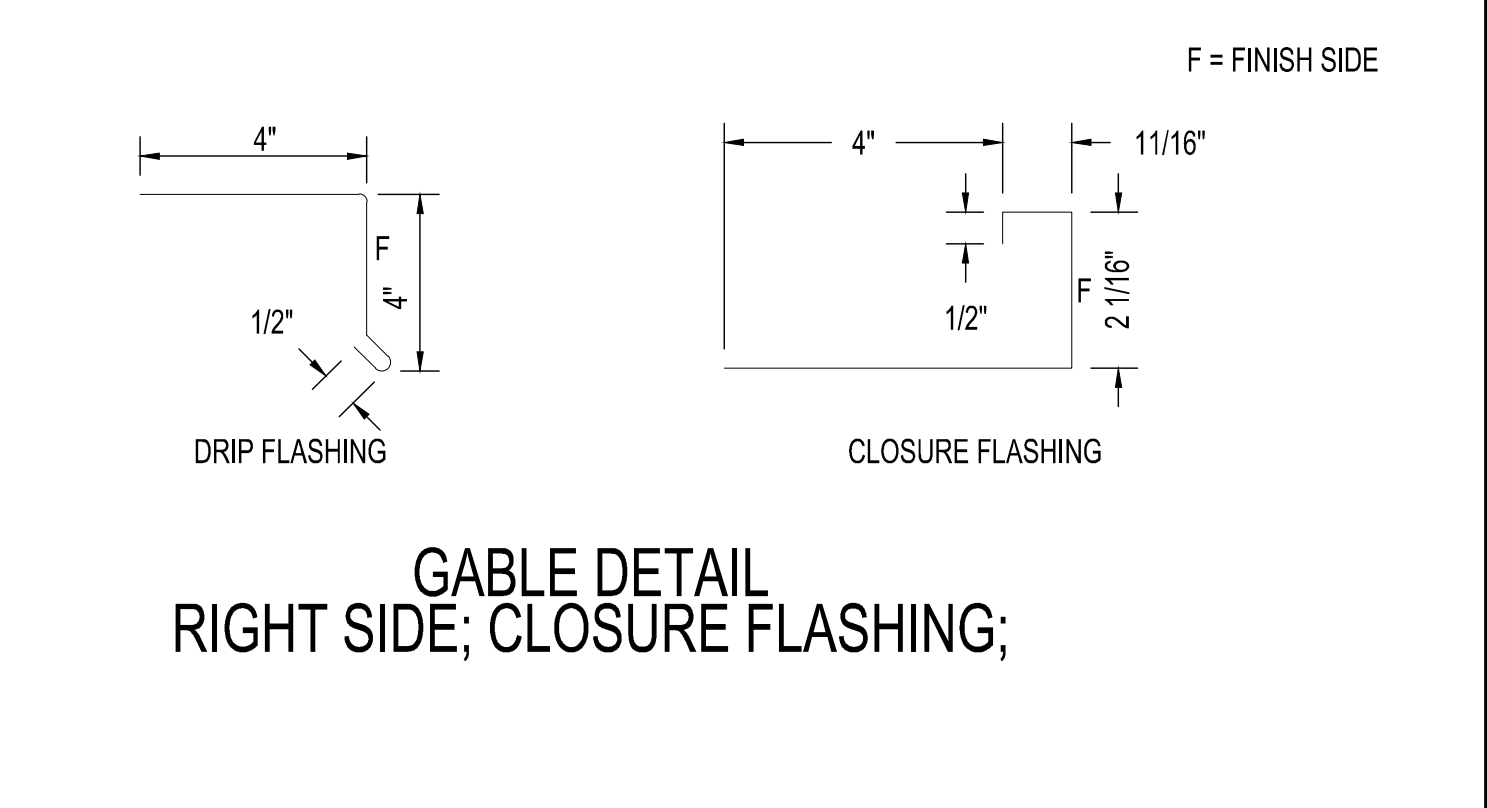
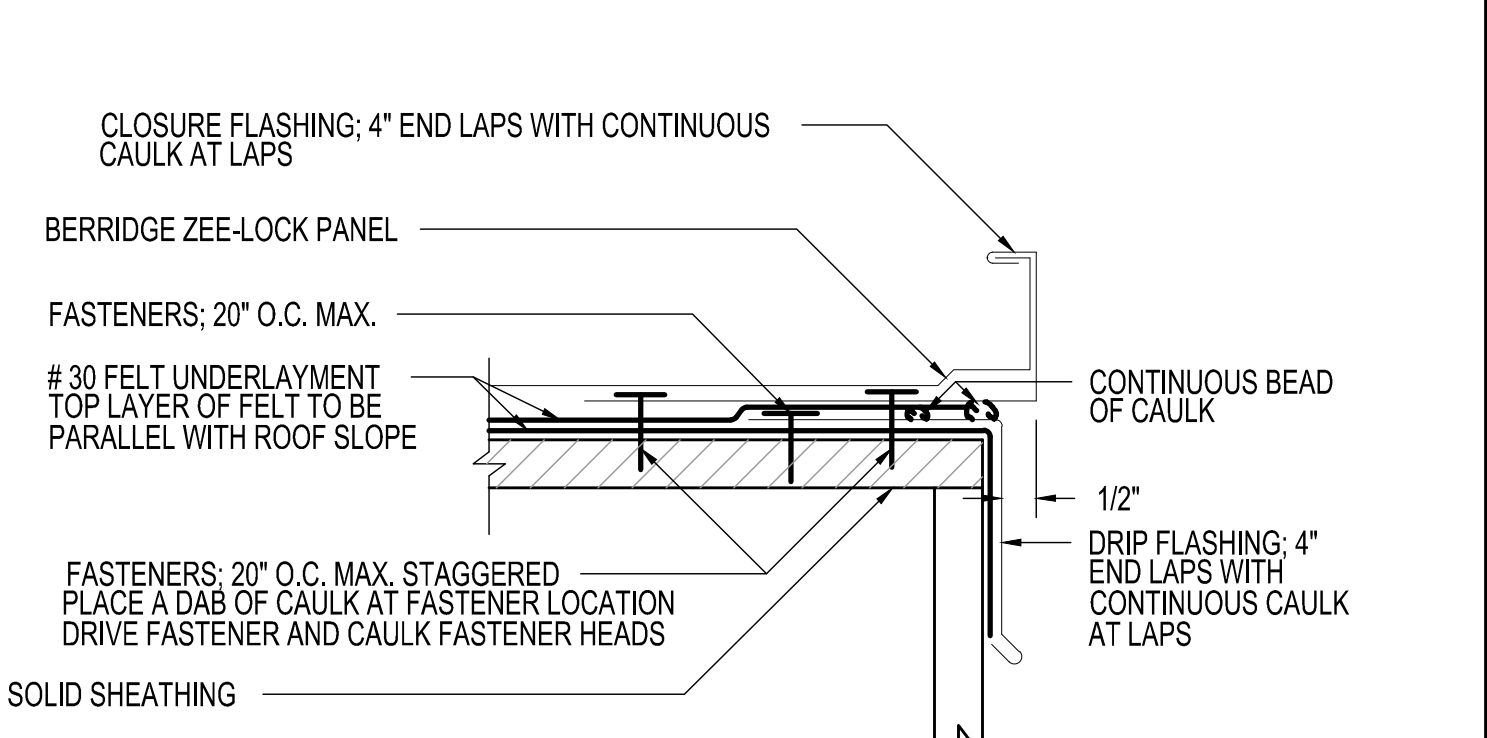
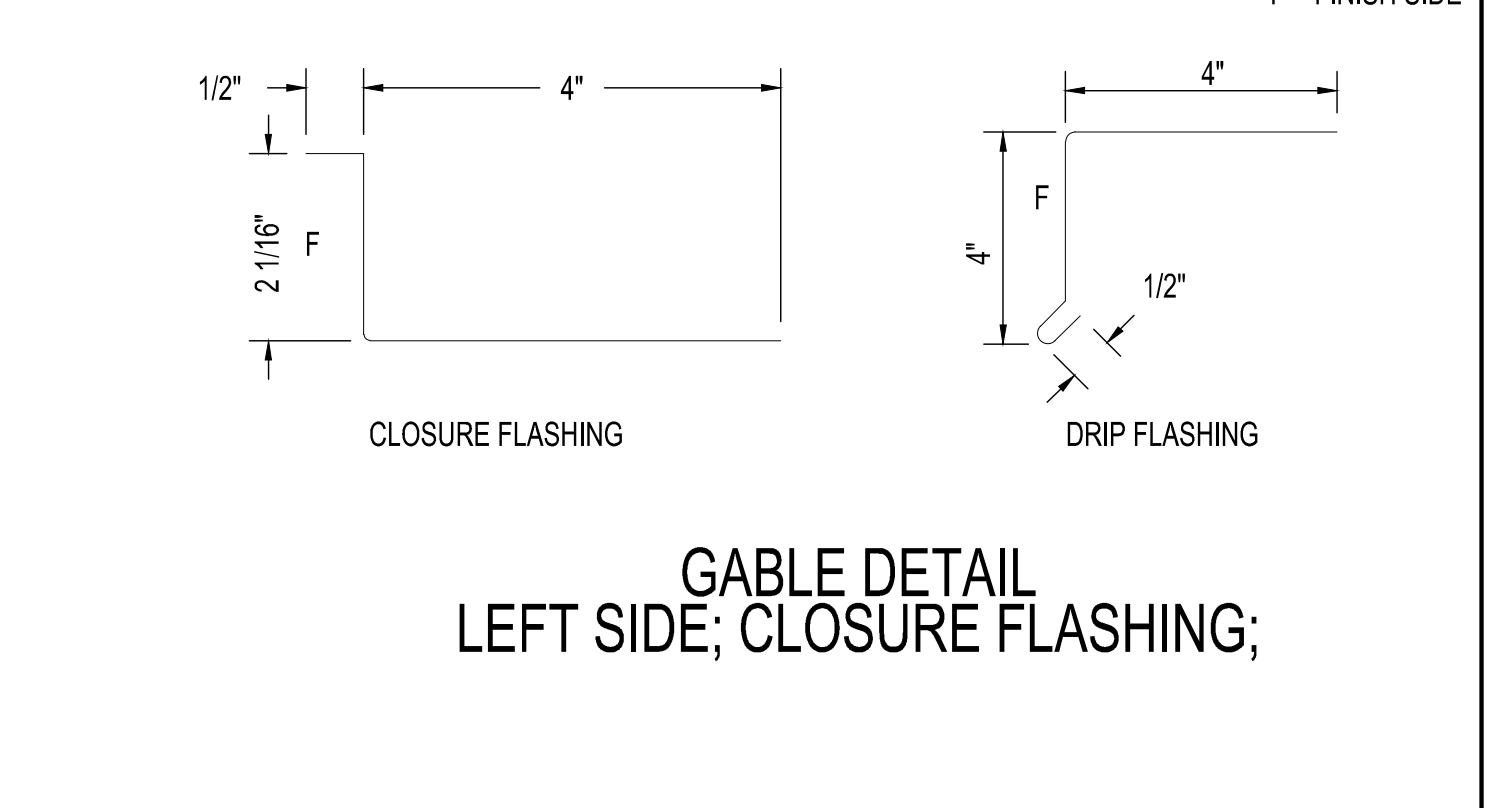
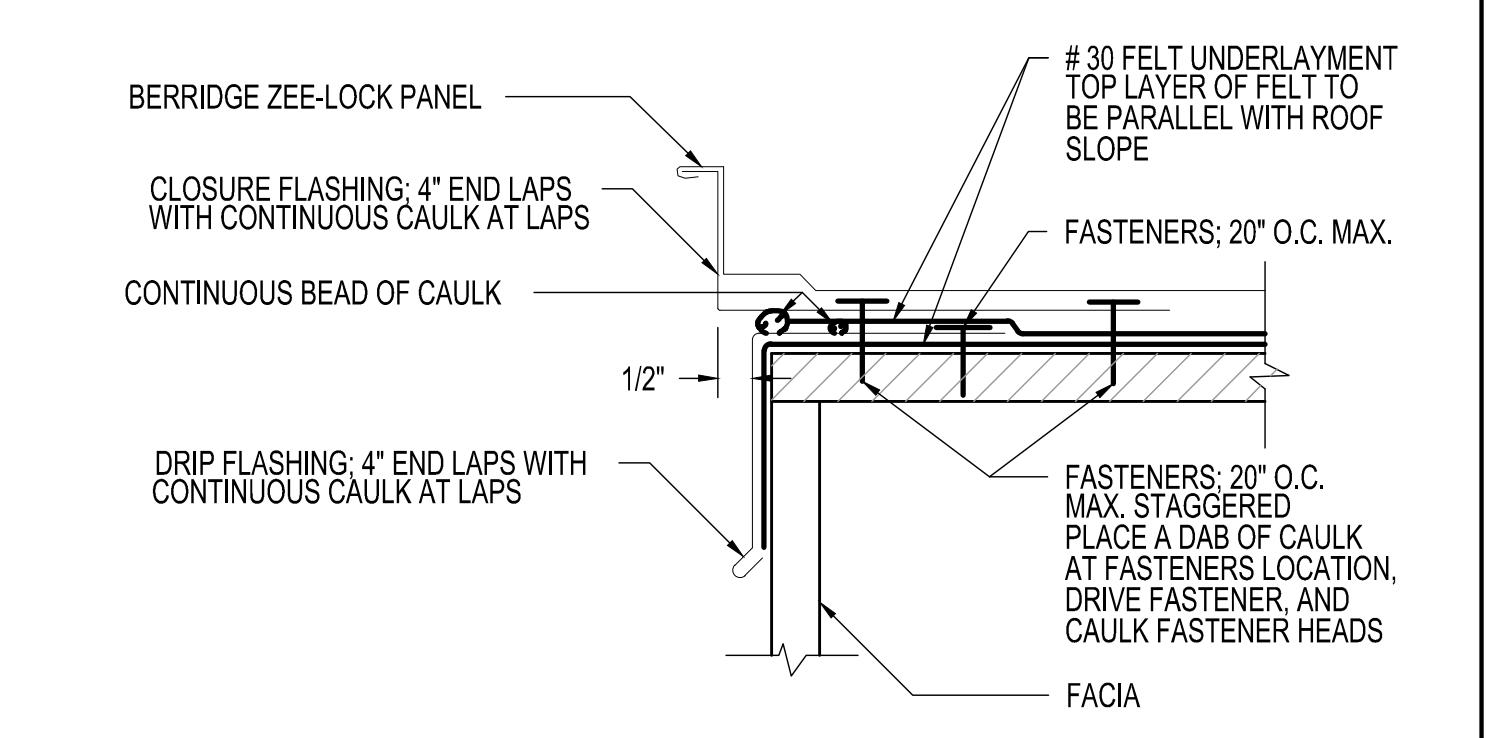
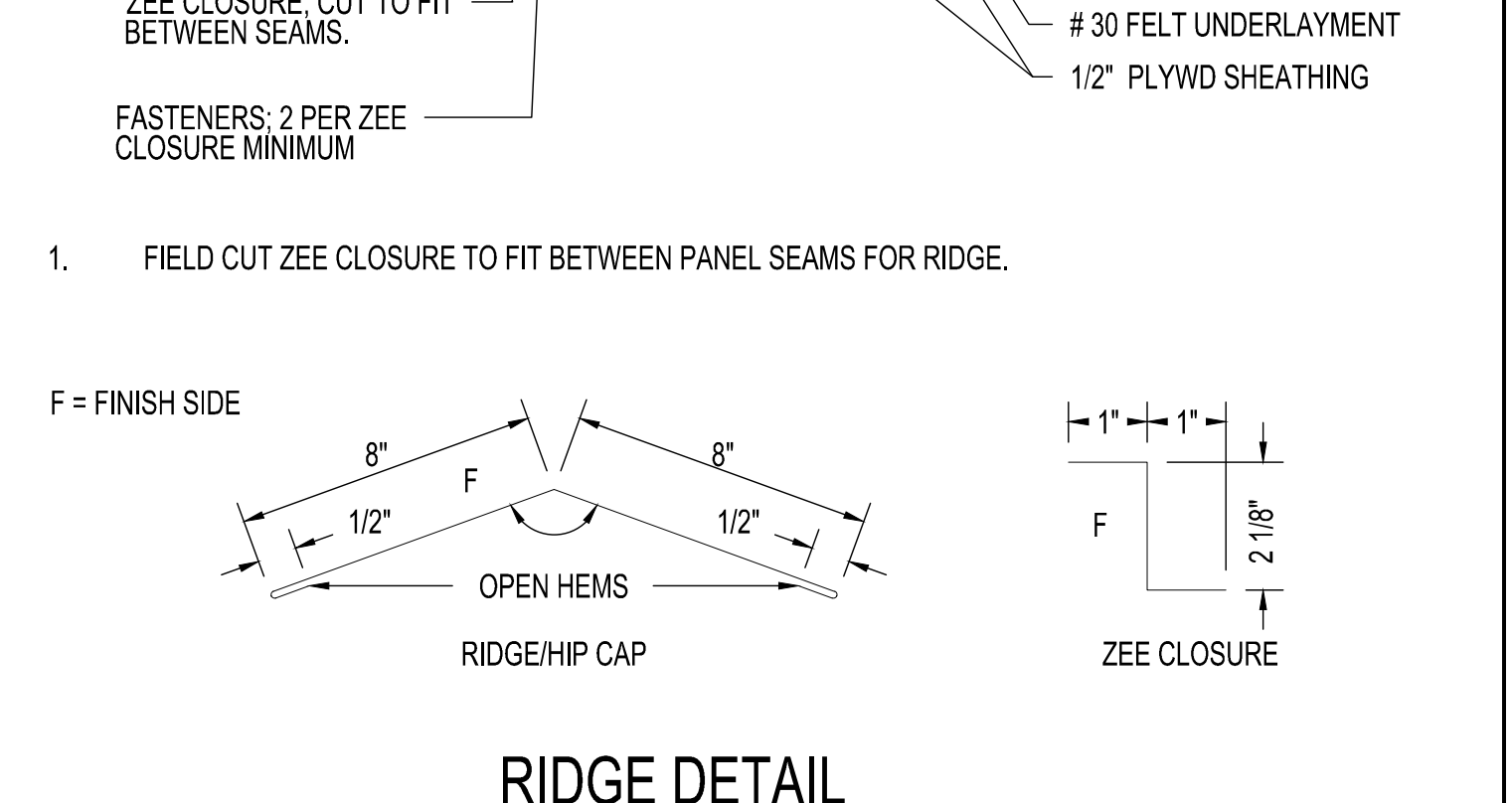
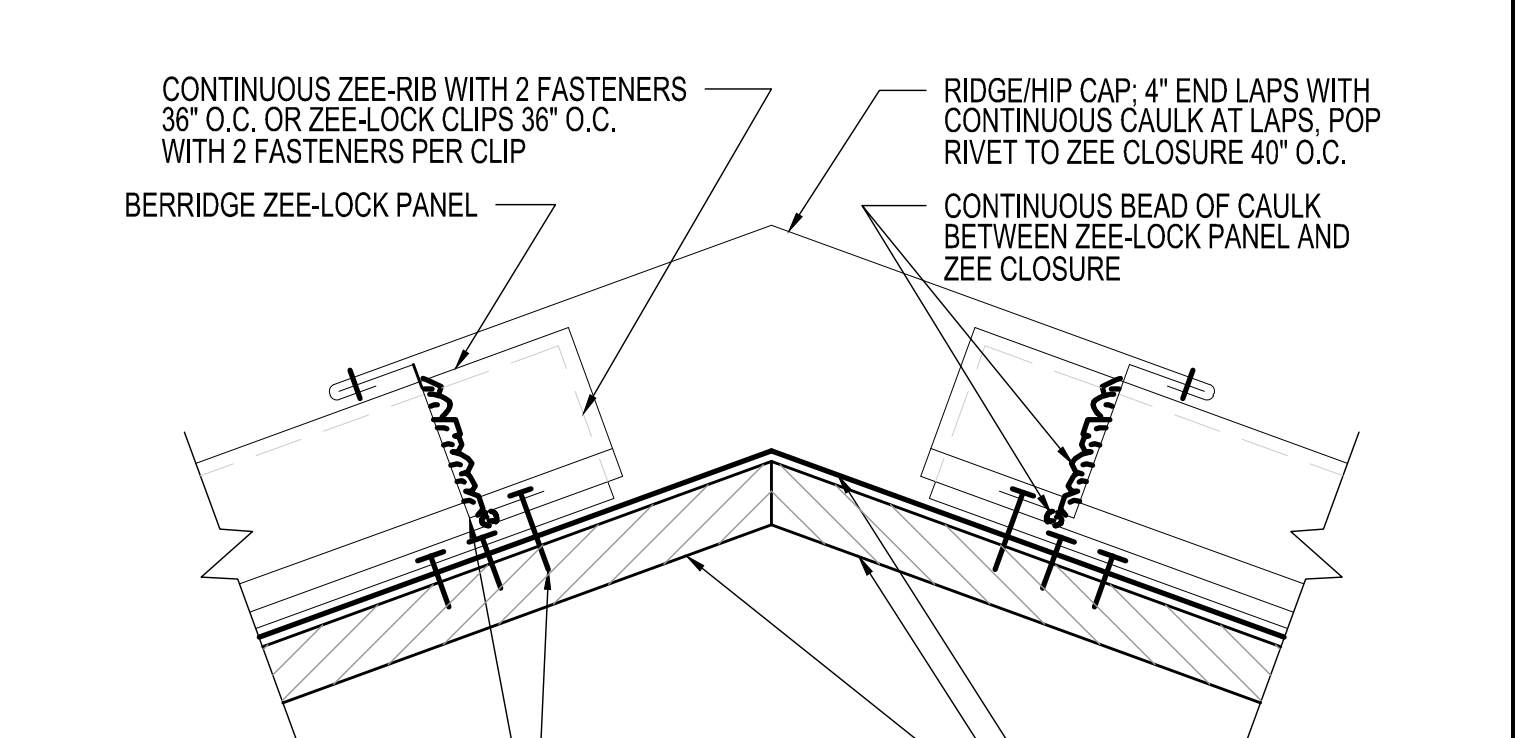
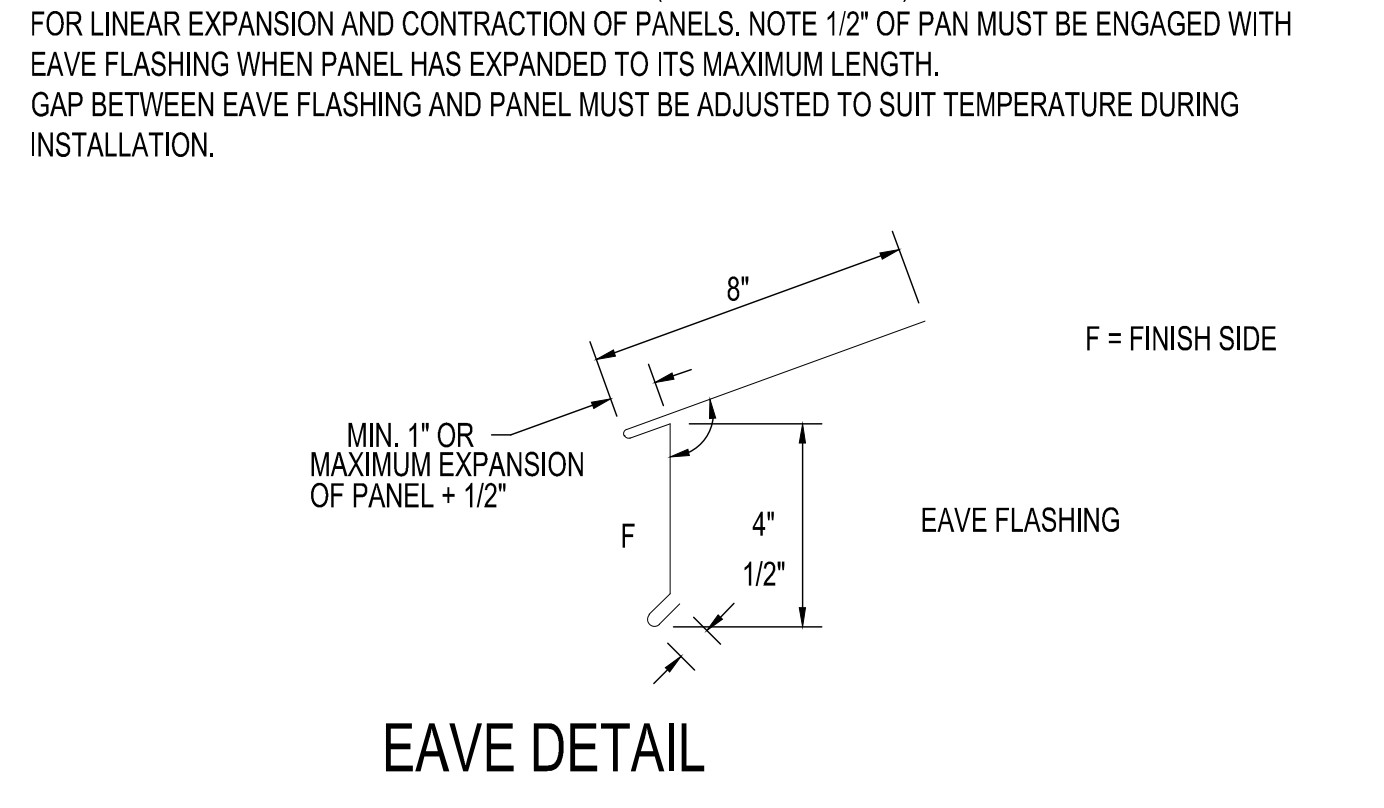
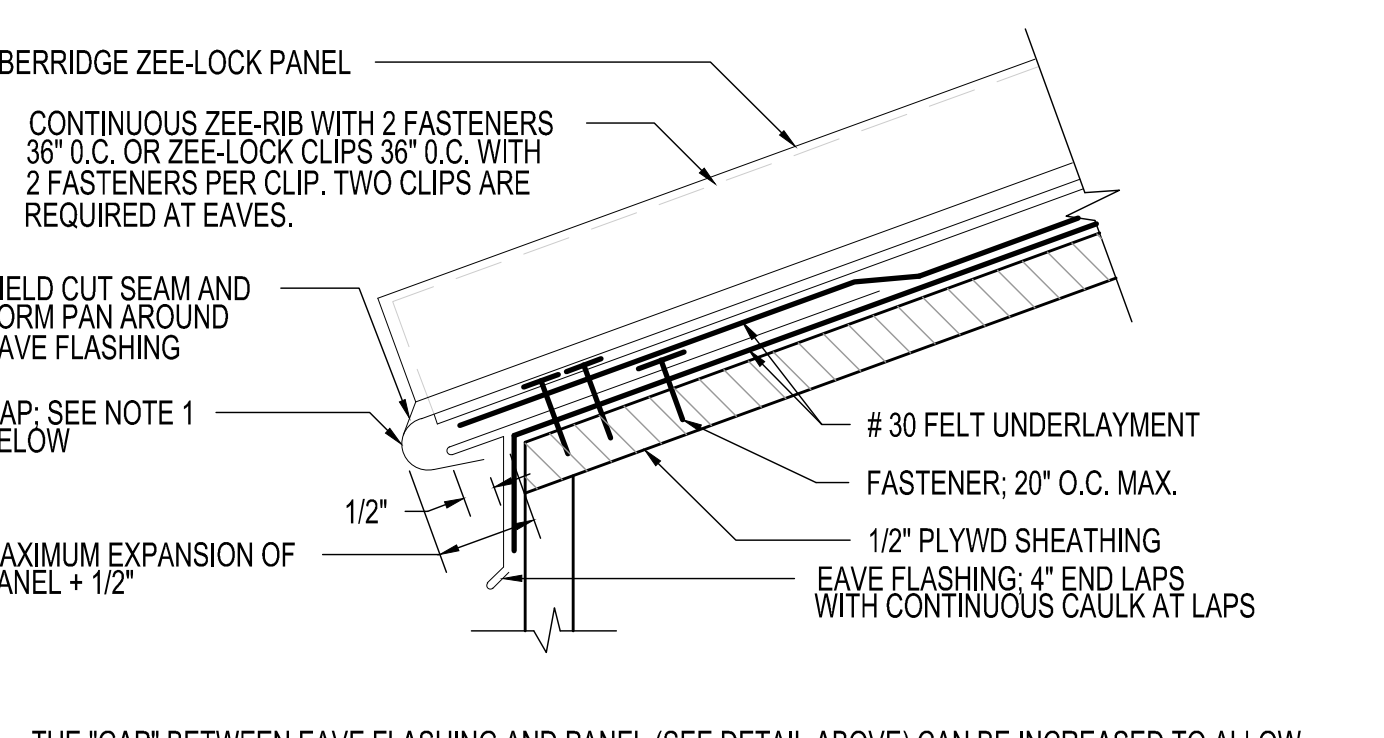
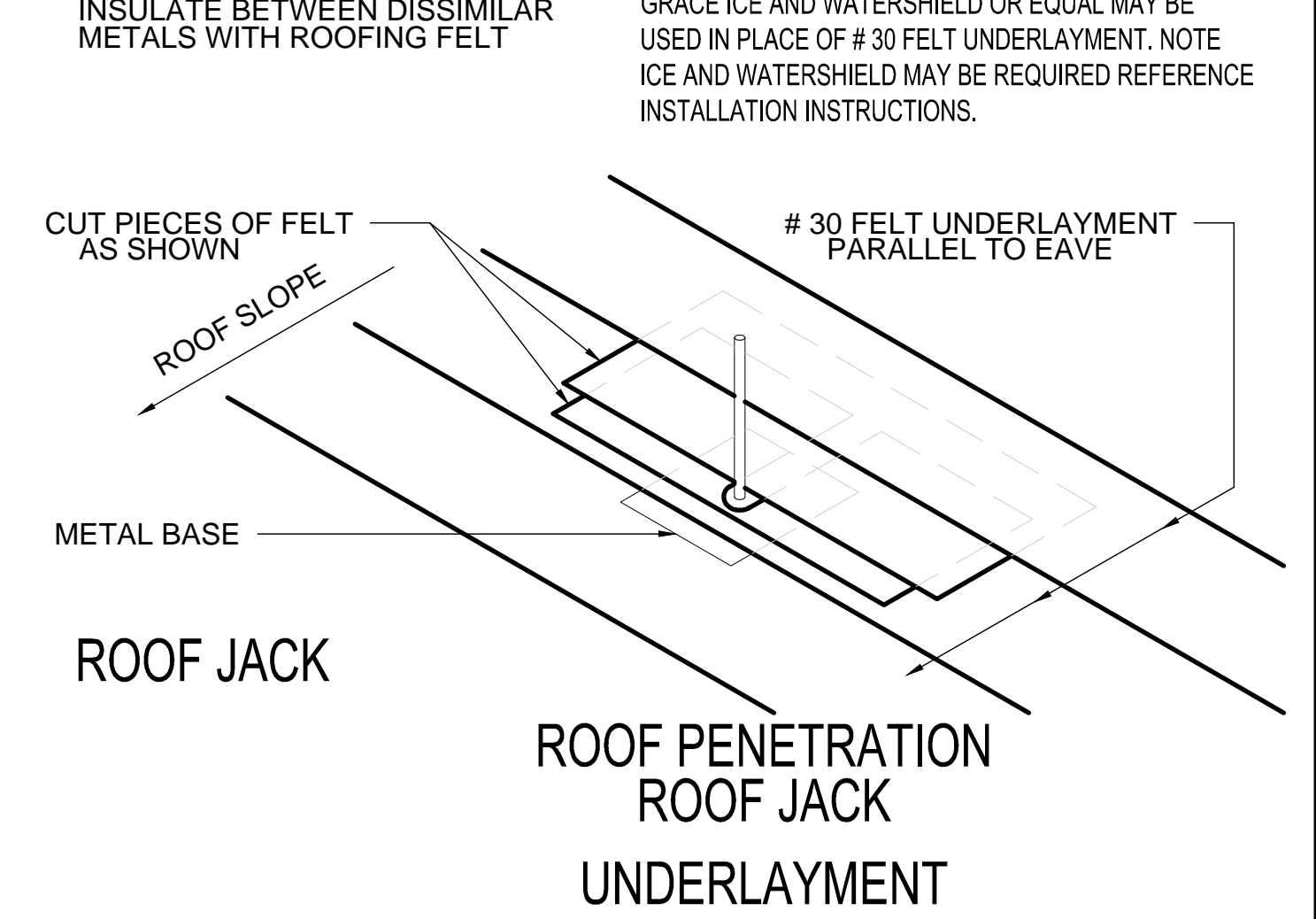
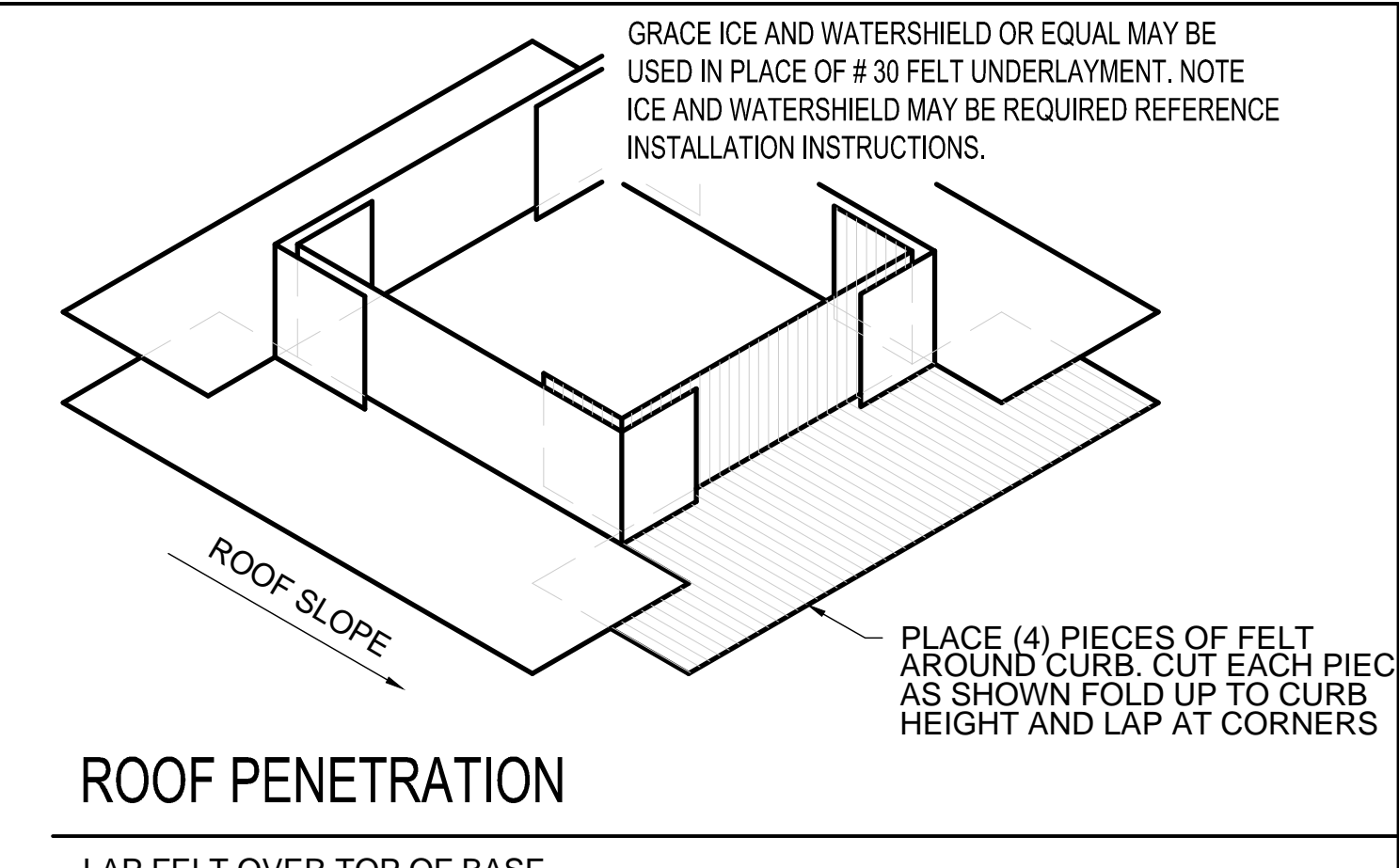
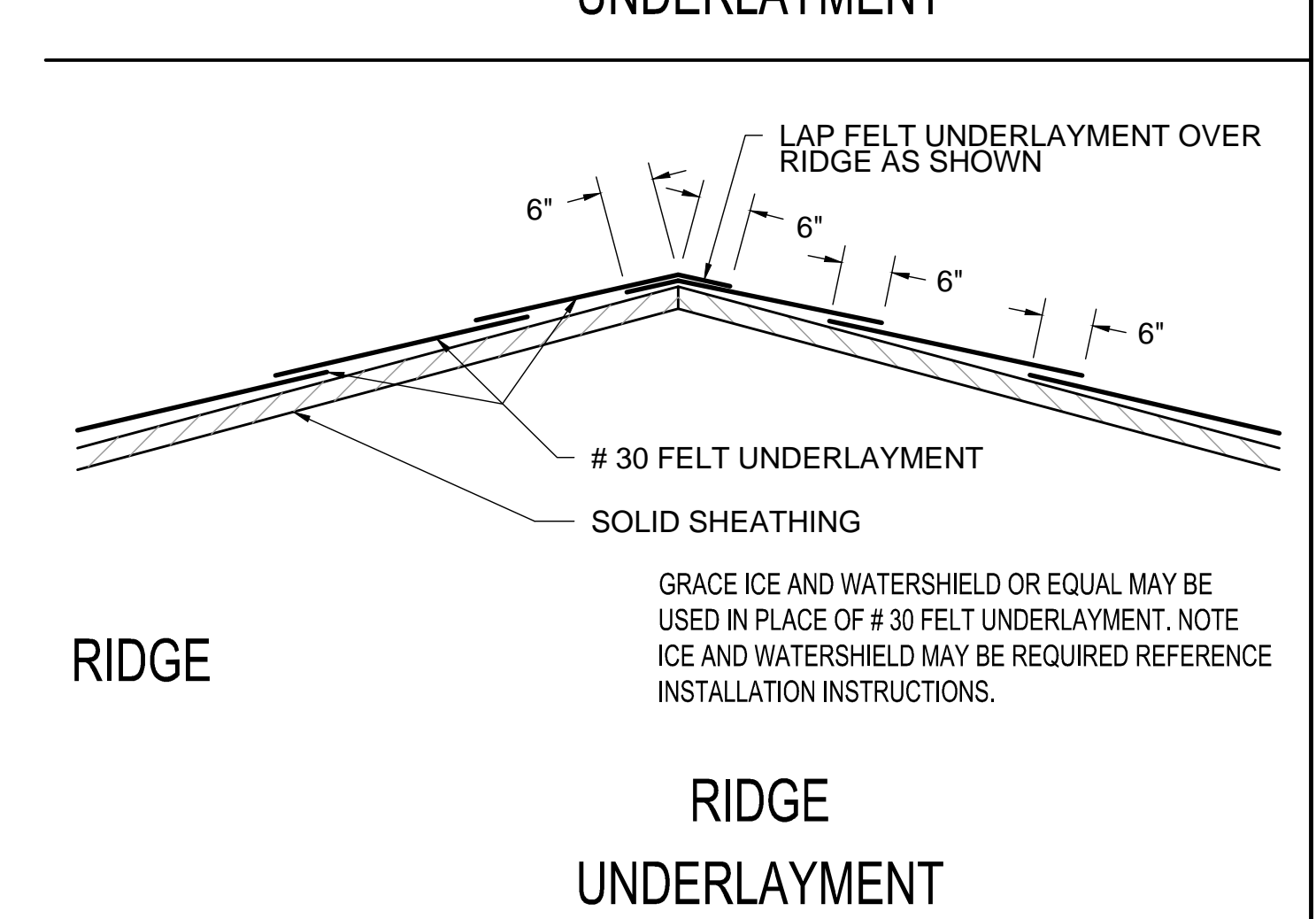
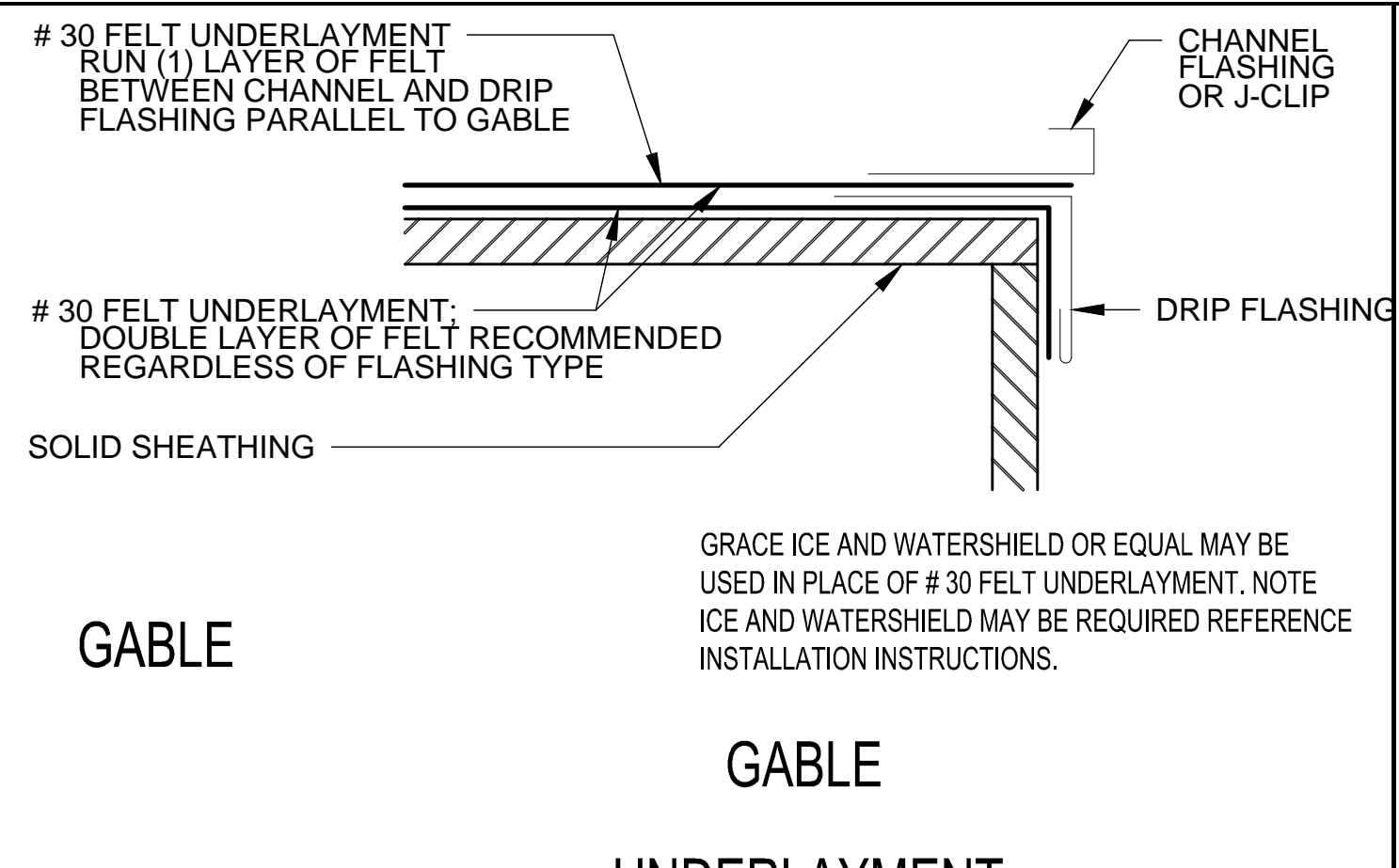
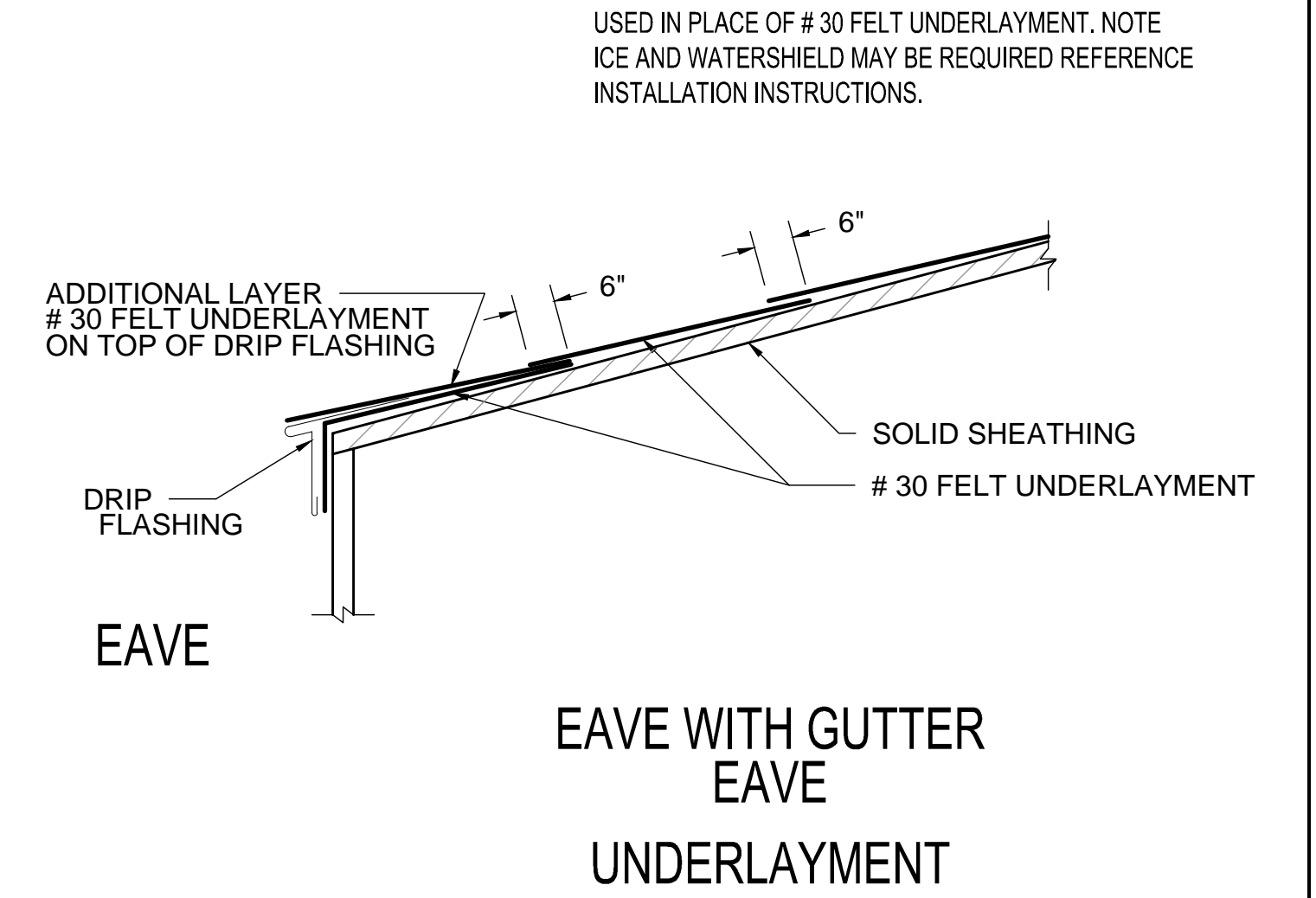
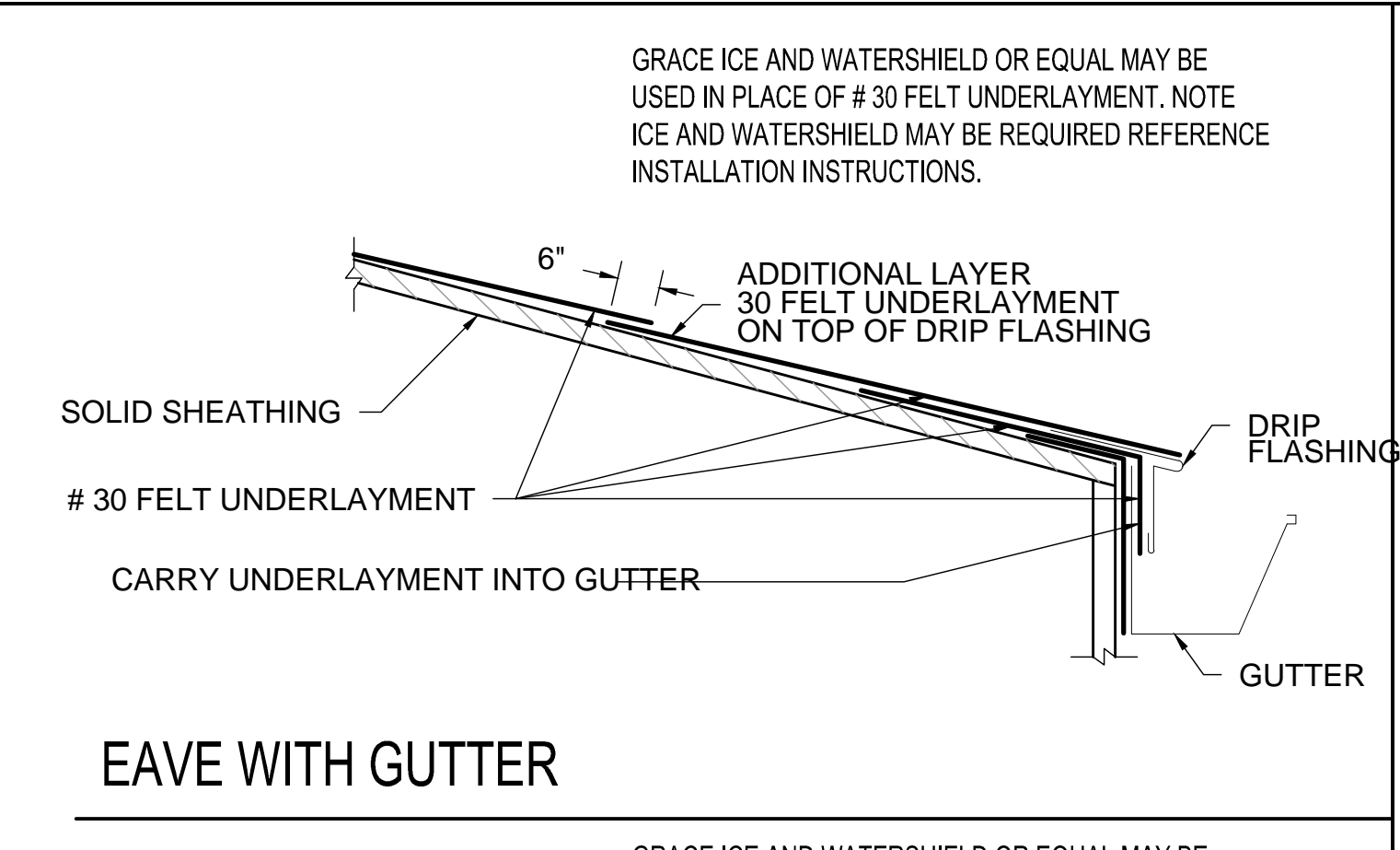
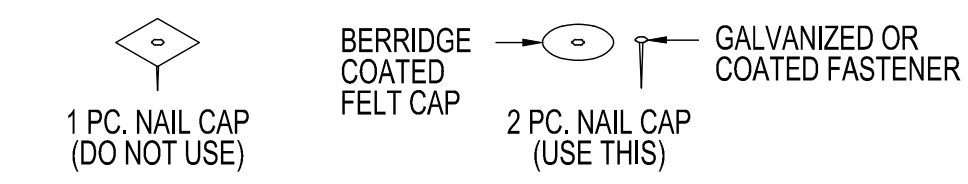
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BELT PRESS BUILDING
 DOOR DETAILS & SCHEDULES
 7S-7
 SHEET 7 OF 08

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.
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- 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.



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 e-mail: admin@oconeengineering.com



WASTEWATER TREATMENT PLANT
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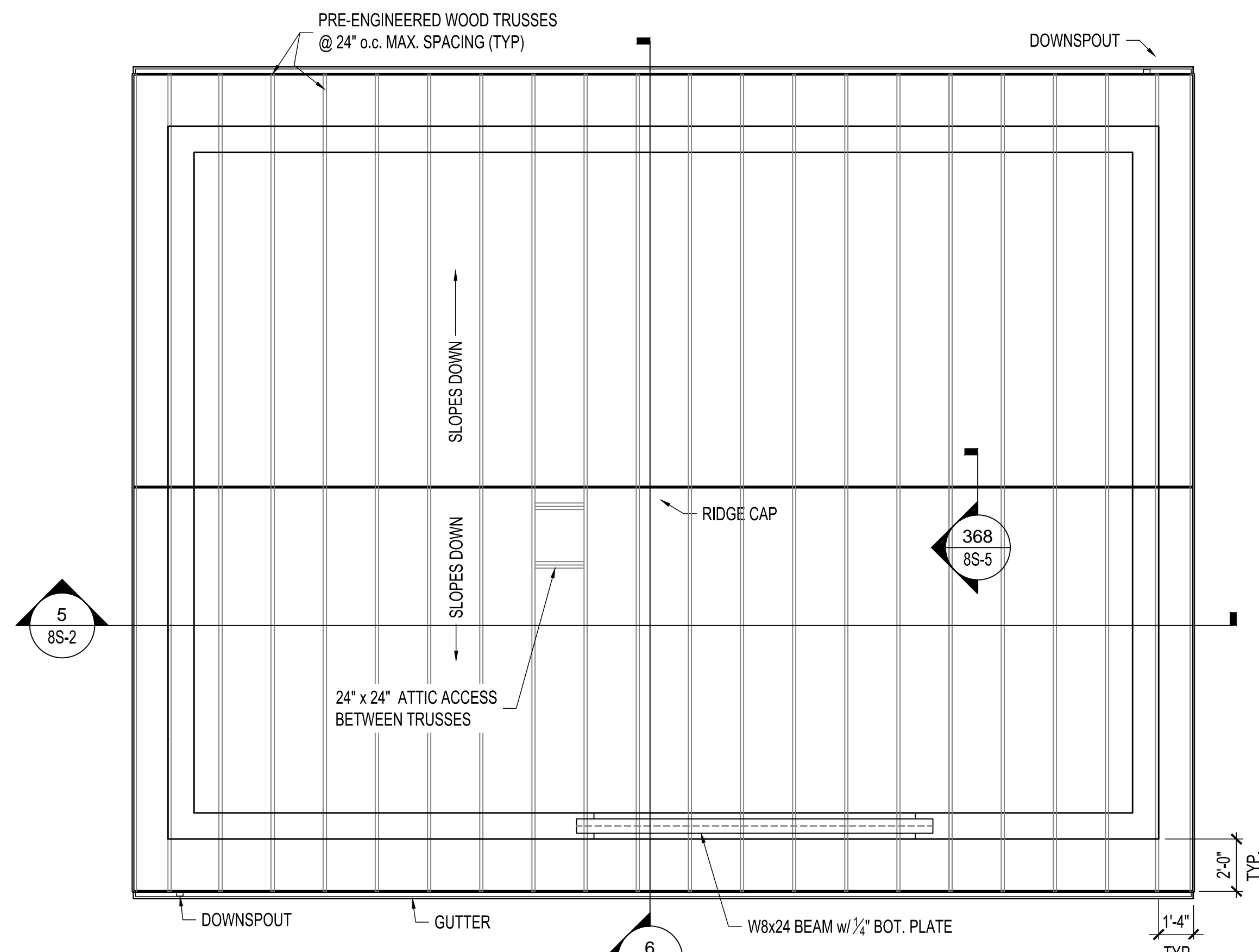
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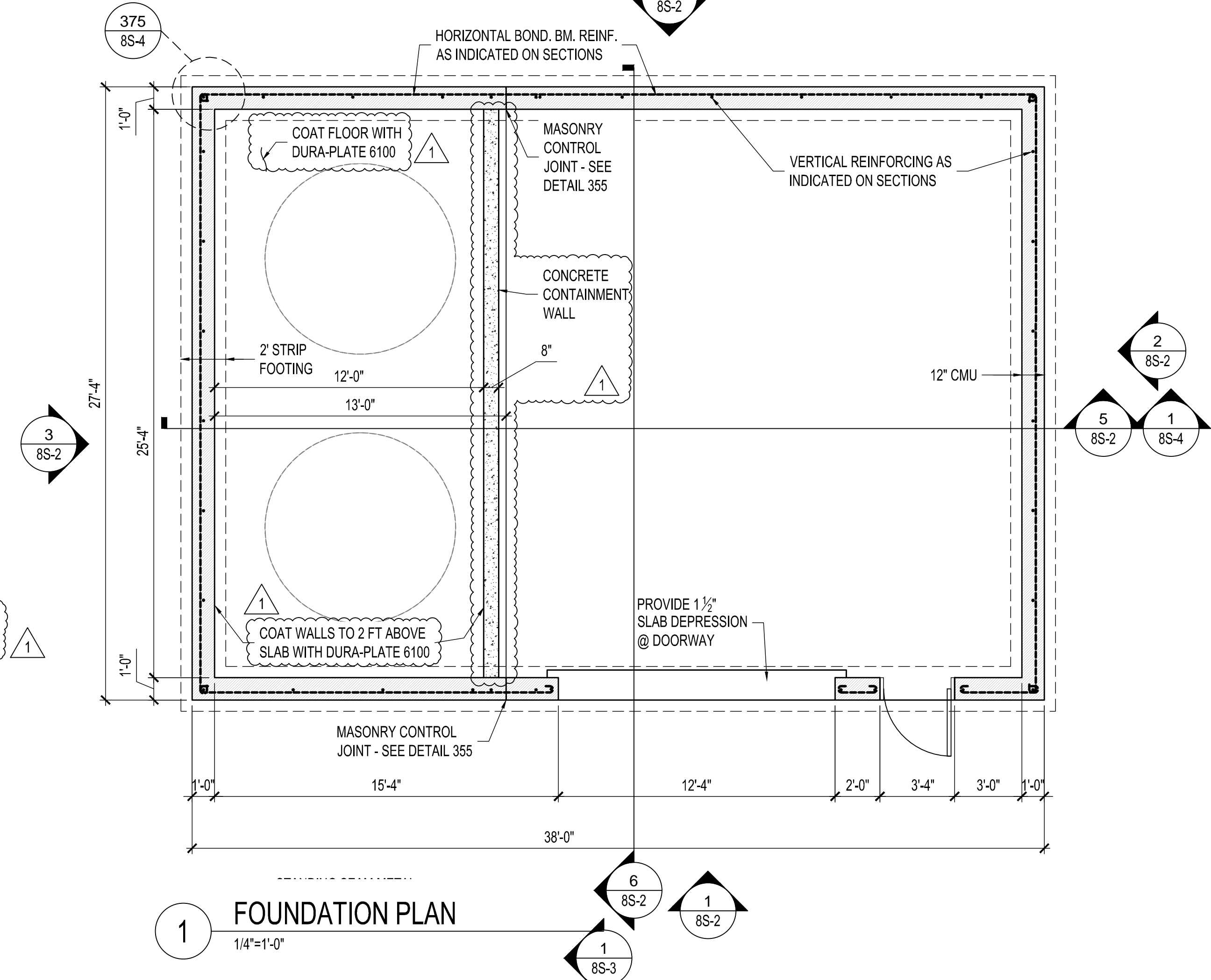
BELT PRESS BUILDING
 ROOF DETAILS

7S-8
 SHEET 8 OF 08

1/25/24
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2 ROOF FRAMING PLAN
1/4"=1'-0"



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

APPLY SHERWIN WILLIAMS DURA-PLATE 6100 TO ALL LIQUID CONTAINING STRUCTURES. PREPARE CONCRETE / MASONRY SURFACES PER MANUFACTURER'S RECOMMENDATIONS.

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 5/8" APA RATED SHEATHING W/ #10 TEKS WOOD TO METAL FASTENERS AT 6" o.c. @ PANEL EDGES & @ 12" o.c. @ INTERMEDIATE SUPPORTS.

CONC REINF LAP LENGTH
3000 PSI (ACI 318-14)

| 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 | 3 1/2" TYPICAL | |
|---------------|----------------|---------|
| | 12" CMU | 12" CMU |
| 3'-4" | 2 - #4 | 2 - #4 |
| 3'-4" | 5'-4" | 2 - #5 |
| 5'-4" | 7'-4" | 2 - #6 |
| 7'-4" | 10'-0" | 2 - #6 |

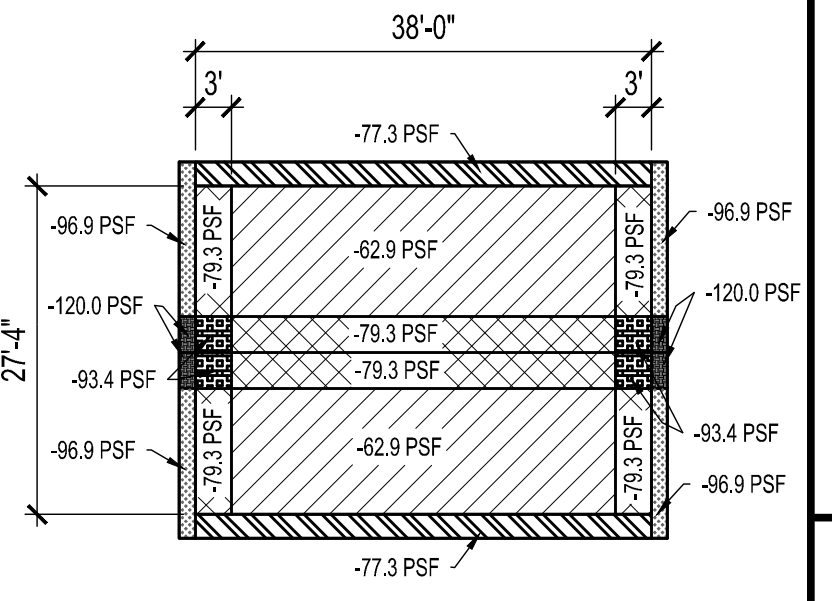
- EXTEND BOND BEAM REINFORCING 24" OR 40 BAR DIAMETERS (WHICHEVER IS GREATER) BEYOND THE EXTENTS OF THE OPENING. VERTICAL REINFORCING AT THE SIDES OF THE OPENING SHALL BE CONTINUOUS THROUGH THE BOND BEAM. PROVIDE KNOCK OUTS IN THE BOTTOM OF THE BOND BEAM BLOCK AS REQUIRED TO ALLOW REINFORCING TO PASS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

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.

STRUCTURE NOTES

- DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BRNG PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION AND ENGINEER SHALL BE NOTIFIED IF ACTUAL SOIL BEARING PRESSURE IS LOWER THAN DESIGN VALUE.
- 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) = 143 MPH
OCCUPANCY CATEGORY = III
WIND IMPORTANCE FACTOR (Iw) = 1.0
UPWIND EXPOSURE CATEGORY = B
INTERNAL PRESSURE COEFF. (GCp) = ±0.18
A = 3.0 FT.
COMPONENTS & CLADDING NET DESIGN PRESSURES (Pgross PER ASCE 7-16) (LOADS ARE UNREDUCED AND UNFACTORED)
ROOF COMPONENTS & CLADDING DESIGN PRESSURES: (BASED ON 20 SF AREA)
18.6 PSF MAXIMUM DOWNWARD LOAD
SEE ROOF UPLIFT DIAGRAM FOR UPLIFT LOADS
WALL COMPONENTS & CLADDING DESIGN PRESSURES: (BASED ON 20 SF AREA)
ZONE 4 = +32.5 PSF, -35.4 PSF
ZONE 5 = +32.5 PSF, -42.5 PSF



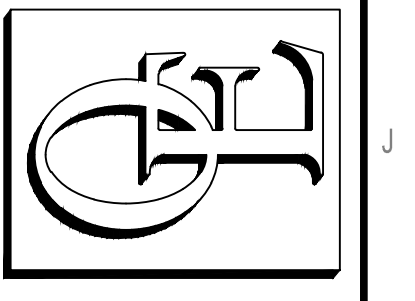
UPLIFT DIAGRAM

- SEISMIC DESIGN CRITERIA:
OCCUPANCY CATEGORY = III
SEISMIC IMPORTANCE FACTOR (Ie) = 1.25
Ss = 0.3225 S1 = 0.1164
SITE CLASS = D
S0.5 = 0.332 S0.1 = 0.184
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-16 TABLE 12.2-1 OR 12.14-1):
BEARING WALL SYSTEM - INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION FACTOR (R) = 3.5
SEISMIC RESPONSE COEFF. (Cs) = 0.1184
SEISMIC DESIGN CATEGORY = C
DESIGN BASE SHEAR = 9.0 K
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

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/#4s @ 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 1/2 THE OVERALL THICKNESS OF SLAB.
 - SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
 - MIN SLAB THICKNESS OF 2 1/2" MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.

OCONEE ENGINEERING L.L.C.
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P. (770) 313-0902
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Greensboro, GA 30642



REGISTERED PROFESSIONAL ENGINEER
RALPH H. BOSWELL
10/7/2024

WASTEWATER TREATMENT PLANT EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY, GEORGIA

| NO. | DATE | BY | DESCRIPTION |
|-----|------------|-----|---------------|
| 1 | 04/24/2024 | EPD | FOR SUBMITTAL |
| | 04/24/2024 | EPD | FOR REVIEW |
| | 04/24/2024 | EPD | FOR REVIEW |

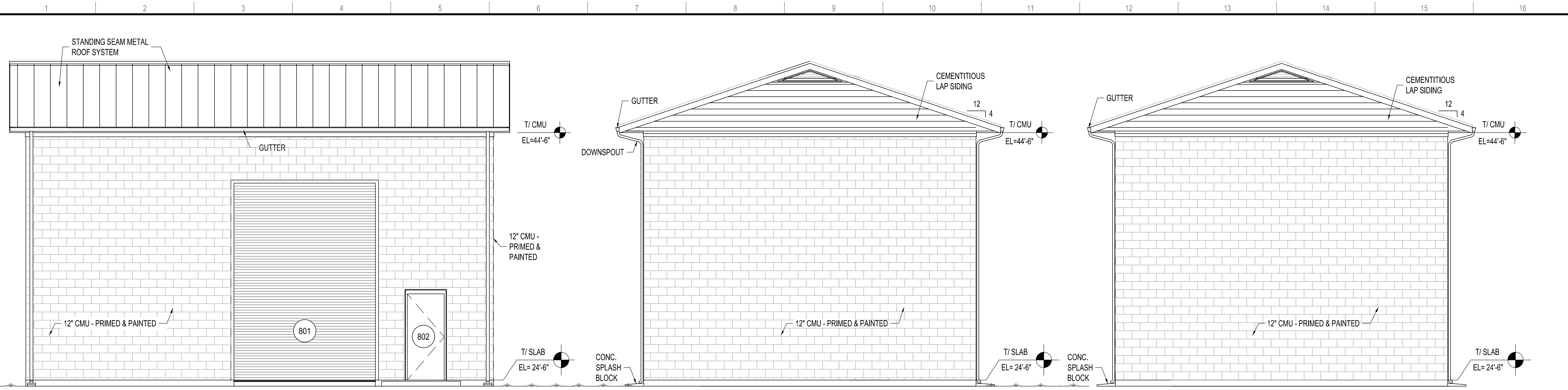
DESIGNED: CE22/21
DRAWN: CE22/17-SS-CORE
CHECKED: []
APPROVED: []
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 2-07-2024

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CHEMICAL BUILDING

NOTES & PLANS

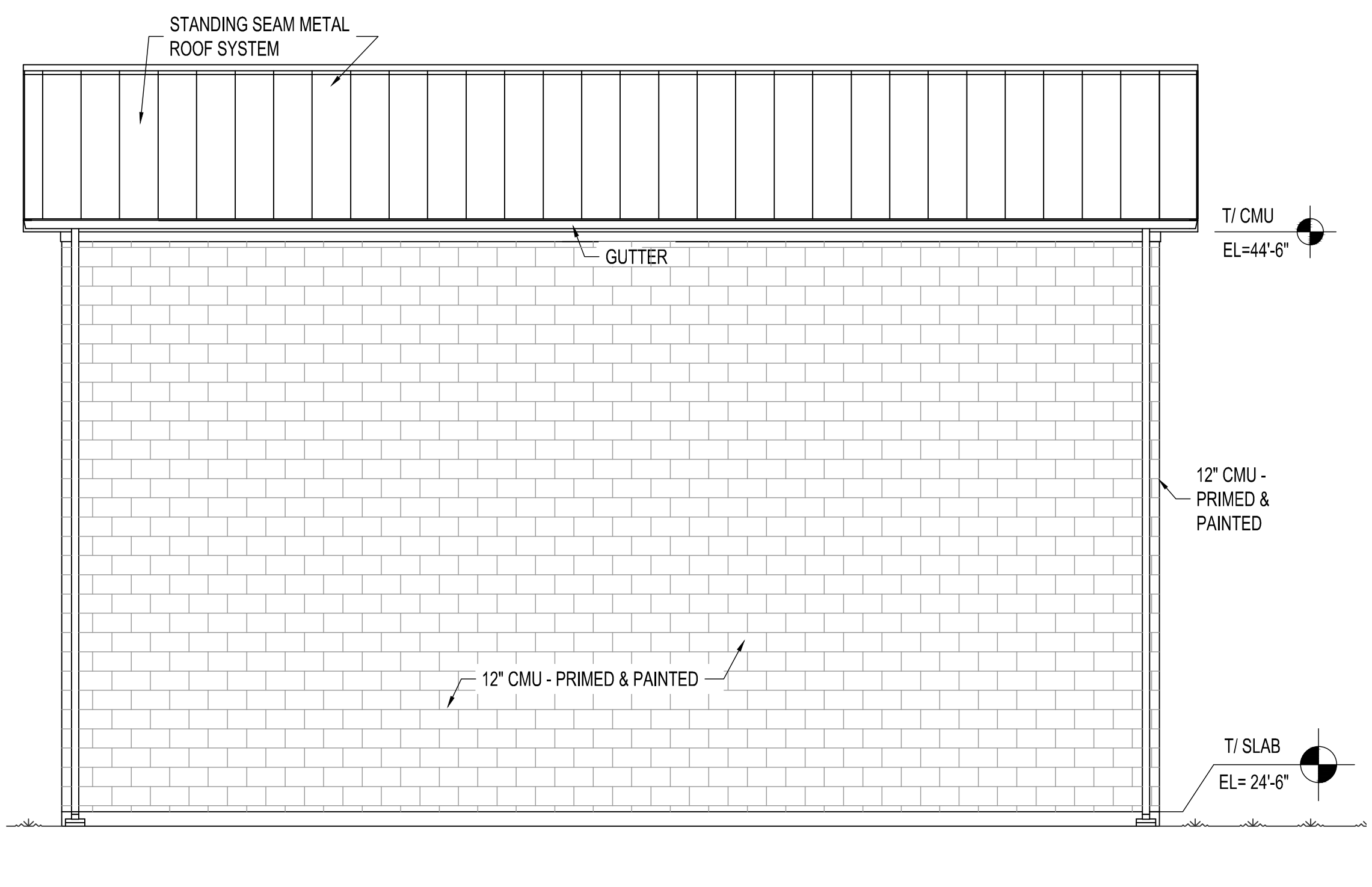
NOTES:
 1. DATE: 02/27/2024
 2. USER: RALPH.BOSWELL
 3. PROJECT: WASTEWATER TREATMENT PLANT EXPANSION
 4. SHEET: 8S-1
 5. SCALE: 1/4"=1'-0"
 6. DRAWN BY: RALPH.BOSWELL
 7. CHECKED BY: []
 8. APPROVED BY: []
 9. DATE: 2-07-2024
 10. ORIGINAL DRAWING SIZE: 36"x24"
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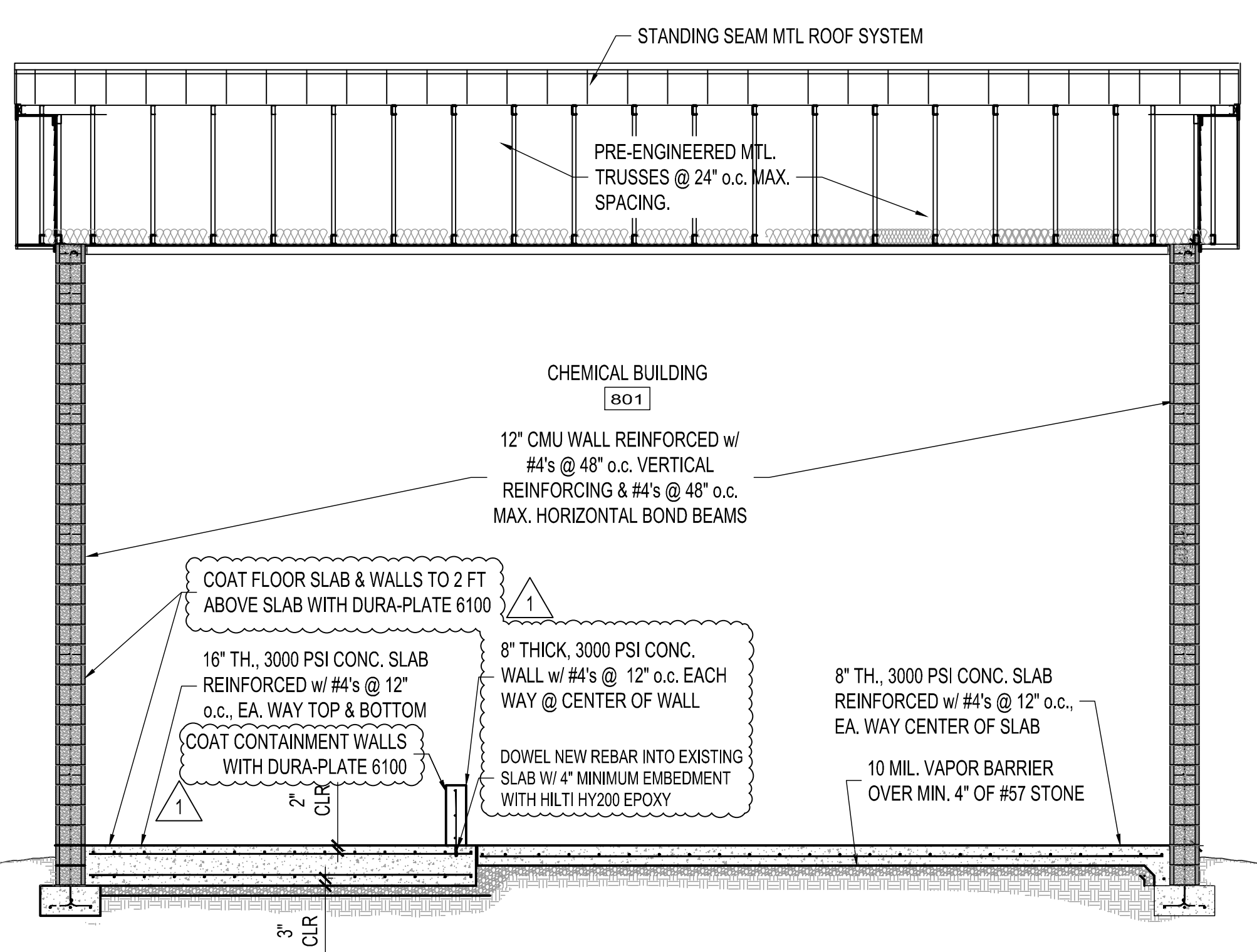
1 FRONT ELEVATION
1/4"=1'-0"

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

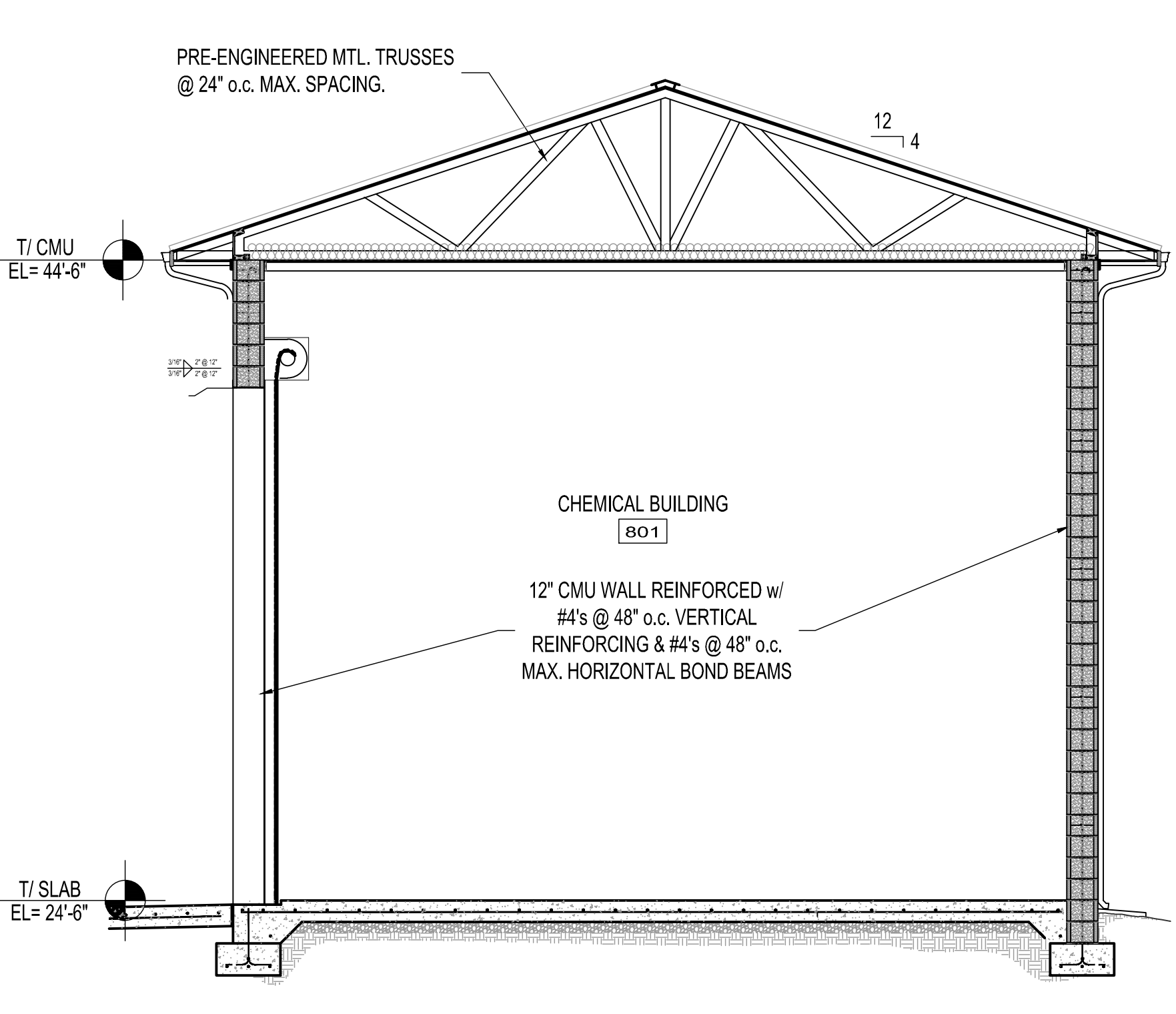
3 LEFT SIDE ELEVATION
1/4"=1'-0"



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

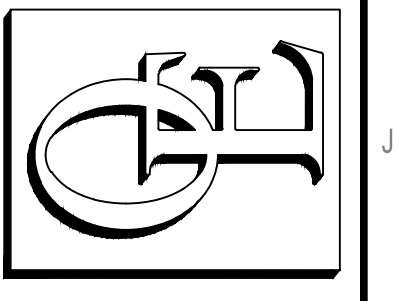


5 BUILDING SECTION
3/8"=1'-0"



6 BUILDING SECTION
3/8"=1'-0"

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ATLANTA, GA
LAKE OCONEE
ARCHITECTURAL
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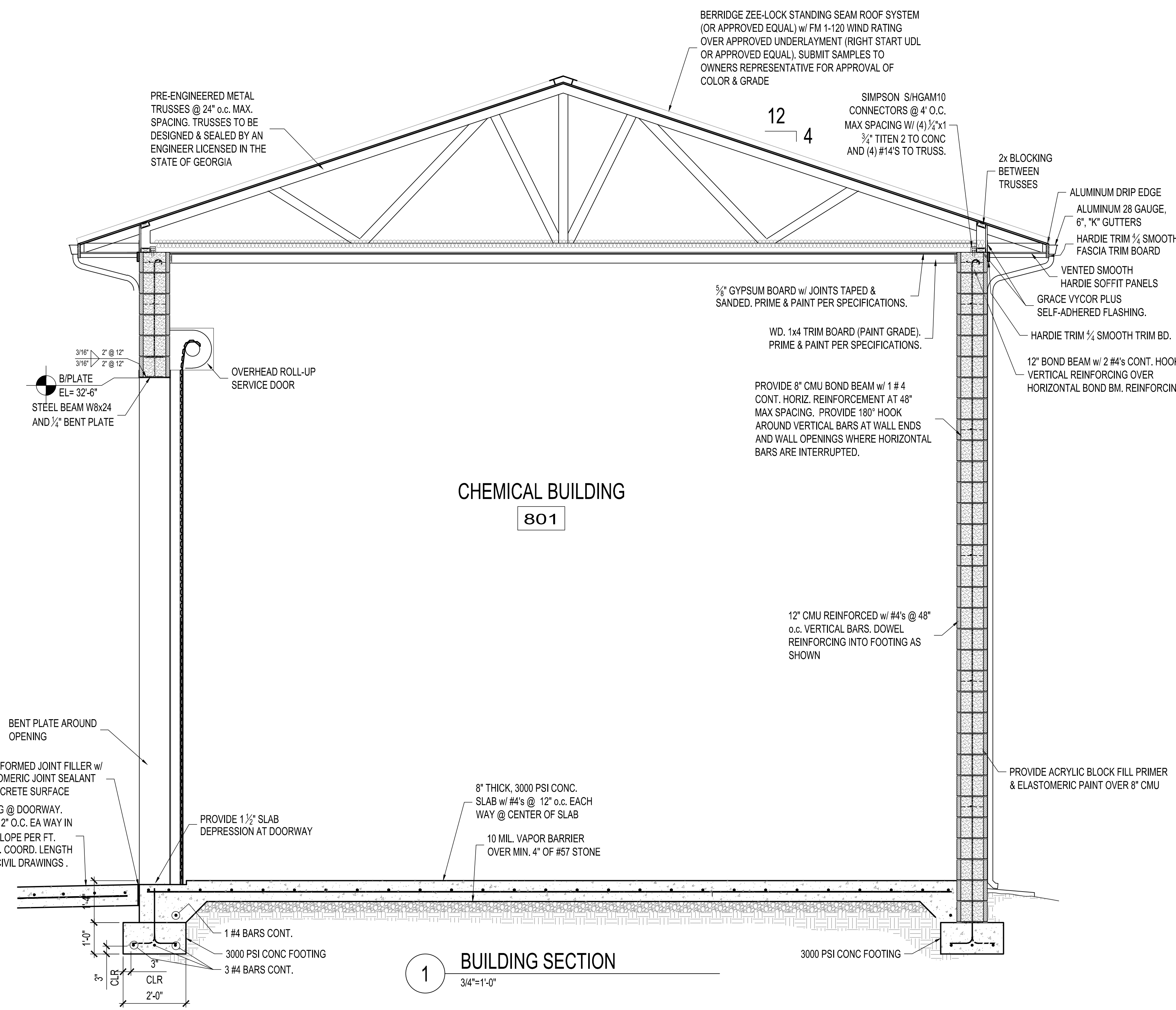
WASTEWATER TREATMENT PLANT
EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY, GEORGIA

| MARK | DATE | BY | DESCRIPTION |
|------|------------|-----|------------------|
| 1 | 10/21/2024 | EPD | COMMENTS |
| 2 | 2/27/2024 | EPD | SUBMITTAL |
| 3 | 08/28/2024 | EPD | ISSUE FOR REVIEW |

DESIGNED: 0E22121
FILE NAME: 0E2217-SS-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 2-07-2024
CHECKED:
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CHEMICAL BUILDING
ELEVATIONS

NOTES:
 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 99B.
 2. ALL MATERIALS SHALL BE APPROVED BY THE ARCHITECT.
 3. ALL WORK SHALL BE COMPLETED BY THE DATE SPECIFIED IN THE CONTRACT.
 4. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
 5. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
 6. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
 7. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
 8. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
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 10. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
 11. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
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 13. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
 14. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
 15. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
 16. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
 17. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.



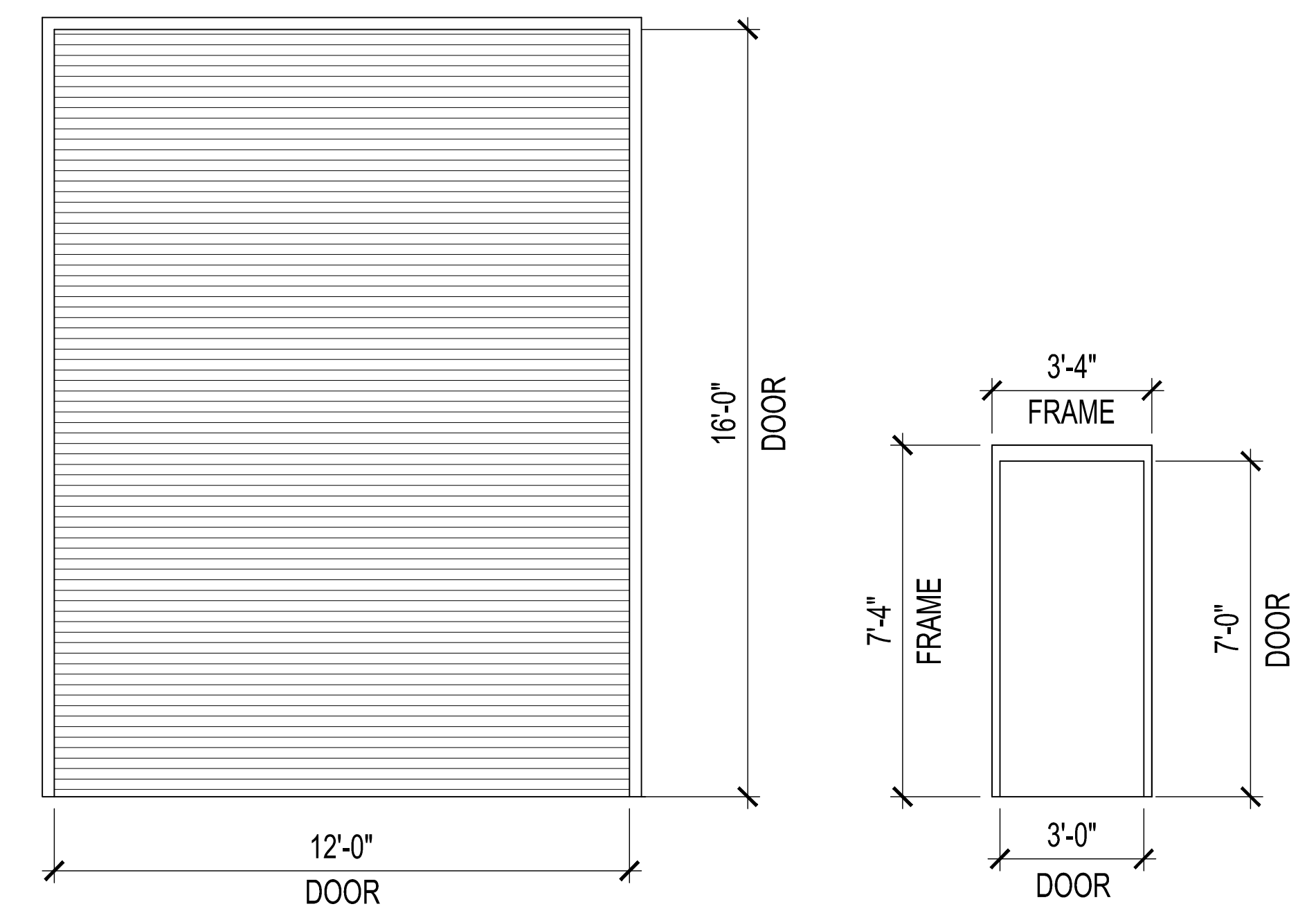
CHEMICAL BUILDING
801

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

| FINISH SCHEDULE | | | | |
|-----------------|-----------------|-------------|--------------------|---------|
| ROOM NUMBER | FLOORS | WALLS | CEILING | REMARKS |
| 801 | SEALED CONCRETE | PAINTED CMU | PAINTED GYP. BOARD | |

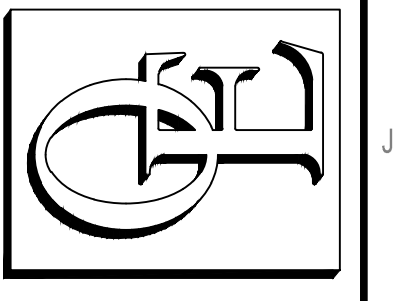
| DOOR SCHEDULE | | | | | | | | |
|---------------|-------|--------|--------|------|-------------|------------|--------------|-------------------|
| DR. # | WIDTH | HEIGHT | THK. | TYPE | MATERIAL | FIRE LABEL | FRAME MTL. | REMARKS |
| 801 | 12-0 | 16-0 | 5/8" | AA | GALV. STEEL | | GALV. STEEL | FINISH SEE SPECS. |
| 802 | 3-0 | 7-0 | 1 3/4" | BB | FRP | | HOLLOW METAL | SEE NOTE FOR MFR. |

NOTE: DOOR #802 BY CHEM-PRUF DOOR CO. OR APPROVED EQUAL.



3 DOOR & FRAME ELEVATIONS
N.T.S.

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E: admin@oconeengineering.com

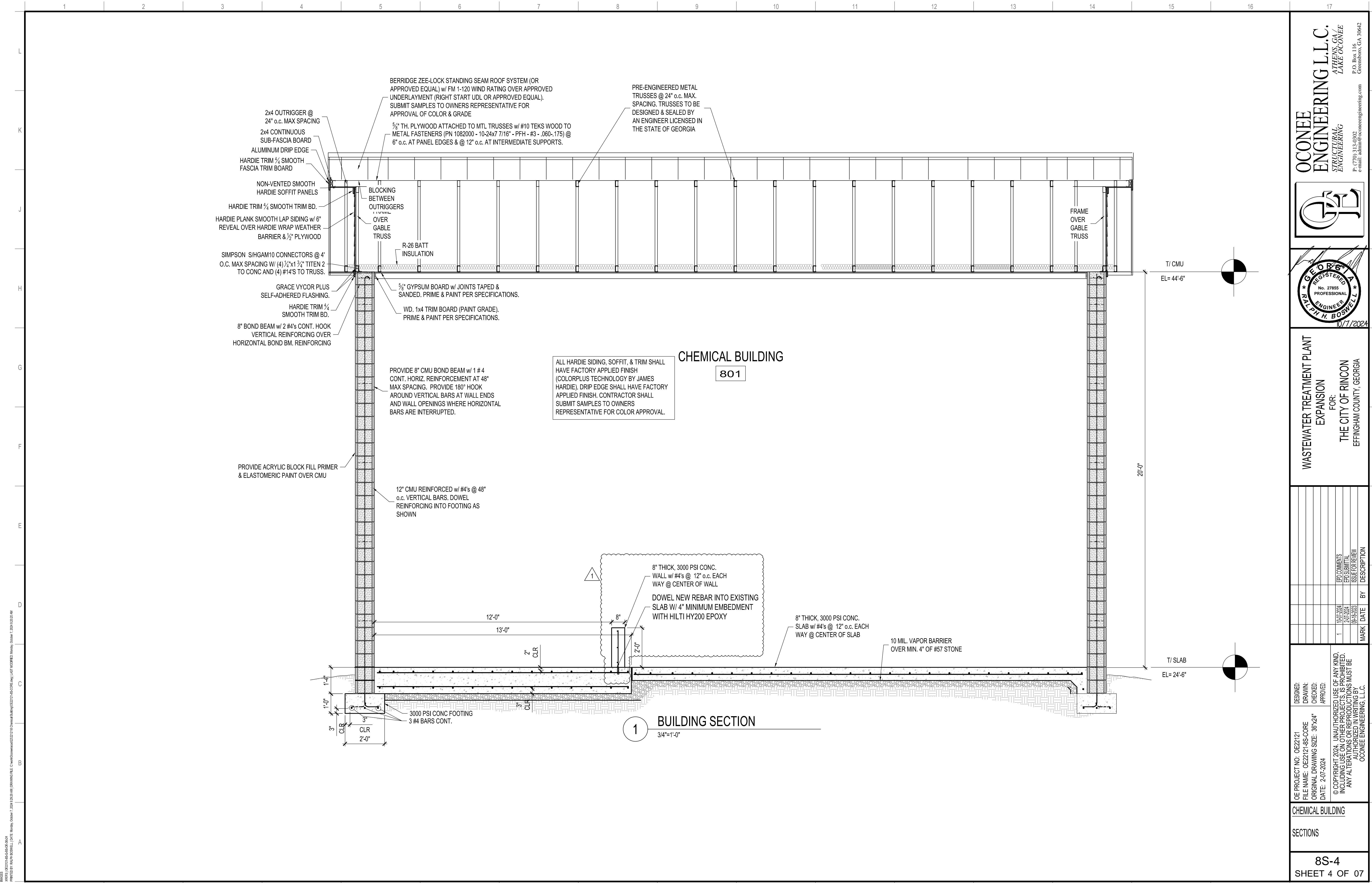


WASTEWATER TREATMENT PLANT
EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY, GEORGIA

| MARK | DATE | BY | DESCRIPTION |
|------|------------|----|------------------|
| | 2/7/2024 | | EPD SUBMITTAL |
| | 02/20/2024 | | ISSUE FOR REVIEW |

DESIGNED: OZ22121
FILE NAME: OZ2217-SS-CORE
DRAWN: OZ2217-SS-CORE
ORIGINAL DRAWING SIZE: 36"x24"
CHECKED:
DATE: 2-07-2024
APPROVED:
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CHEMICAL BUILDING
SECTIONS



- 2x4 OUTRIGGER @ 24" o.c. MAX SPACING
- 2x4 CONTINUOUS SUB-FASCIA BOARD
- ALUMINUM DRIP EDGE
- HARDIE TRIM 1/2" SMOOTH FASCIA TRIM BOARD
- NON-VENTED SMOOTH HARDIE SOFFIT PANELS
- HARDIE TRIM 1/2" SMOOTH TRIM BD.
- HARDIE PLANK SMOOTH LAP SIDING w/ 6" REVEAL OVER HARDIE WRAP WEATHER BARRIER & 1/2" PLYWOOD
- SIMPSON SHGAM10 CONNECTORS @ 4' O.C. MAX SPACING W/ (4) 1/2"x1 1/2" TITEN 2 TO CONC AND (4) #14'S TO TRUSS.

BERRIDGE ZEE-LOCK STANDING SEAM ROOF SYSTEM (OR APPROVED EQUAL) w/ FM 1-120 WIND RATING OVER APPROVED UNDERLAYMENT (RIGHT START UDL OR APPROVED EQUAL). SUBMIT SAMPLES TO OWNERS REPRESENTATIVE FOR APPROVAL OF COLOR & GRADE

1/2" TH. PLYWOOD ATTACHED TO MTL TRUSSES w/ #10 TEKS WOOD TO METAL FASTENERS (PN 1082000 - 10-24x7 7/16" - PFH - #3 - .060-.175) @ 6" o.c. AT PANEL EDGES & @ 12" o.c. AT INTERMEDIATE SUPPORTS.

PRE-ENGINEERED METAL TRUSSES @ 24" o.c. MAX. SPACING. TRUSSES TO BE DESIGNED & SEALED BY AN ENGINEER LICENSED IN THE STATE OF GEORGIA

- GRACE VYCOR PLUS SELF-ADHERED FLASHING.
- HARDIE TRIM 1/2" SMOOTH TRIM BD.
- 8" BOND BEAM w/ 2 #4's CONT. HOOK VERTICAL REINFORCING OVER HORIZONTAL BOND BM. REINFORCING

R-26 BATT INSULATION

5/8" GYPSUM BOARD w/ JOINTS TAPED & SANDED. PRIME & PAINT PER SPECIFICATIONS.

WD. 1x4 TRIM BOARD (PAINT GRADE). PRIME & PAINT PER SPECIFICATIONS.

PROVIDE 8" CMU BOND BEAM w/ 1 #4 CONT. HORIZ. REINFORCEMENT AT 48" MAX SPACING. PROVIDE 180° HOOK AROUND VERTICAL BARS AT WALL ENDS AND WALL OPENINGS WHERE HORIZONTAL BARS ARE INTERRUPTED.

ALL HARDIE SIDING, SOFFIT, & TRIM SHALL HAVE FACTORY APPLIED FINISH (COLORPLUS TECHNOLOGY BY JAMES HARDIE). DRIP EDGE SHALL HAVE FACTORY APPLIED FINISH. CONTRACTOR SHALL SUBMIT SAMPLES TO OWNERS REPRESENTATIVE FOR COLOR APPROVAL.

CHEMICAL BUILDING
801

PROVIDE ACRYLIC BLOCK FILL PRIMER & ELASTOMERIC PAINT OVER CMU

12" CMU REINFORCED w/ #4's @ 48" o.c. VERTICAL BARS. DOWEL REINFORCING INTO FOOTING AS SHOWN

8" THICK, 3000 PSI CONC. WALL w/ #4's @ 12" o.c. EACH WAY @ CENTER OF WALL

DOWEL NEW REBAR INTO EXISTING SLAB w/ 4" MINIMUM EMBEDMENT WITH HILTI HY200 EPOXY

8" THICK, 3000 PSI CONC. SLAB w/ #4's @ 12" o.c. EACH WAY @ CENTER OF SLAB

10 MIL. VAPOR BARRIER OVER MIN. 4" OF #57 STONE

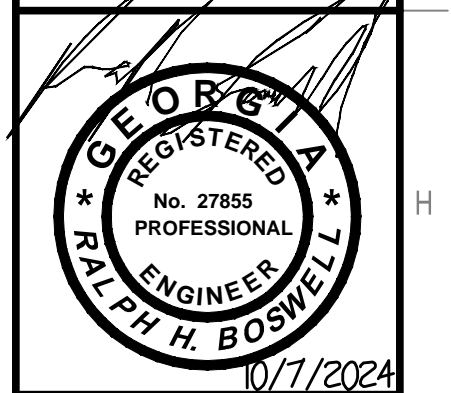
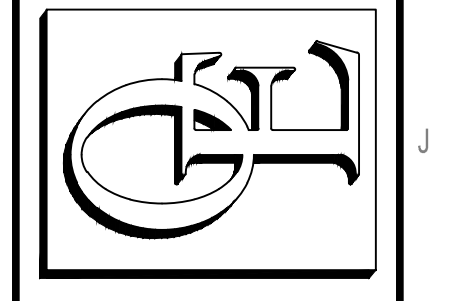
3000 PSI CONC FOOTING 3 #4 BARS CONT.

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

T/ CMU
EL= 44'-6"

T/ SLAB
EL= 24'-6"

OCONEE ENGINEERING L.L.C.
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e-mail: admin@oconeeengineering.com



WASTEWATER TREATMENT PLANT
EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY, GEORGIA

| MARK | DATE | BY | DESCRIPTION |
|------|------------|------------------|-------------|
| 1 | 10/07/2024 | EPD/SUBMITTALS | |
| | 10/07/2024 | EPD/SUBMITTALS | |
| | 10/07/2024 | ISSUE FOR REVIEW | |

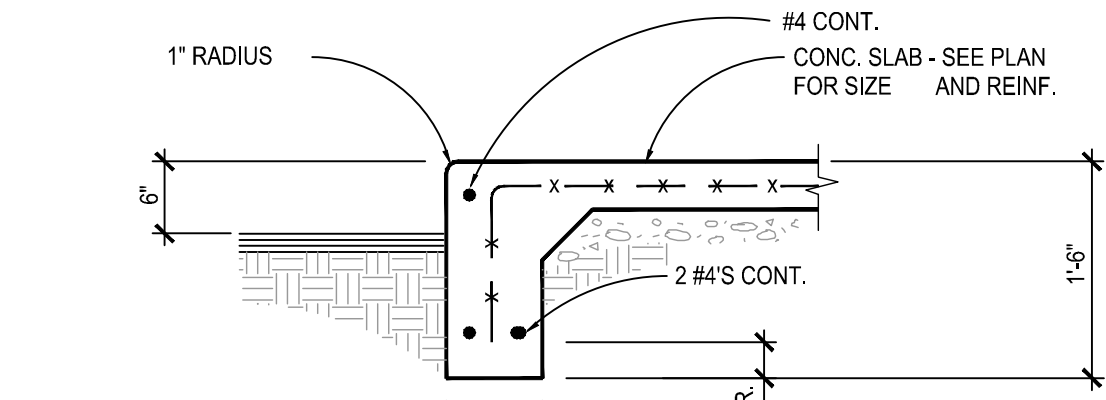
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DRAWN: 0E2217-SS-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 2-07-2024

APPROVED:

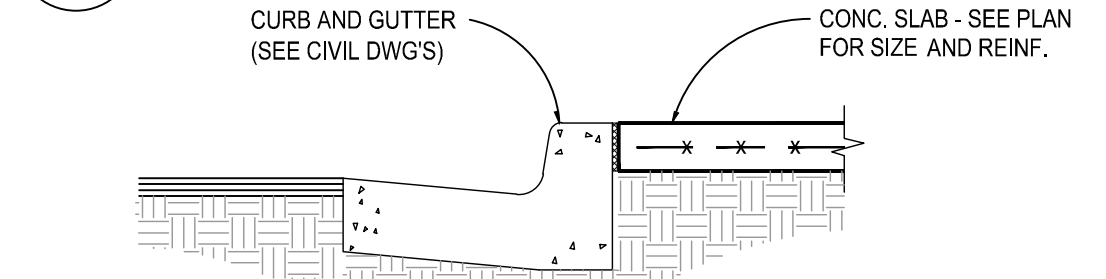
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CHEMICAL BUILDING
SECTIONS
8S-4
SHEET 4 OF 07

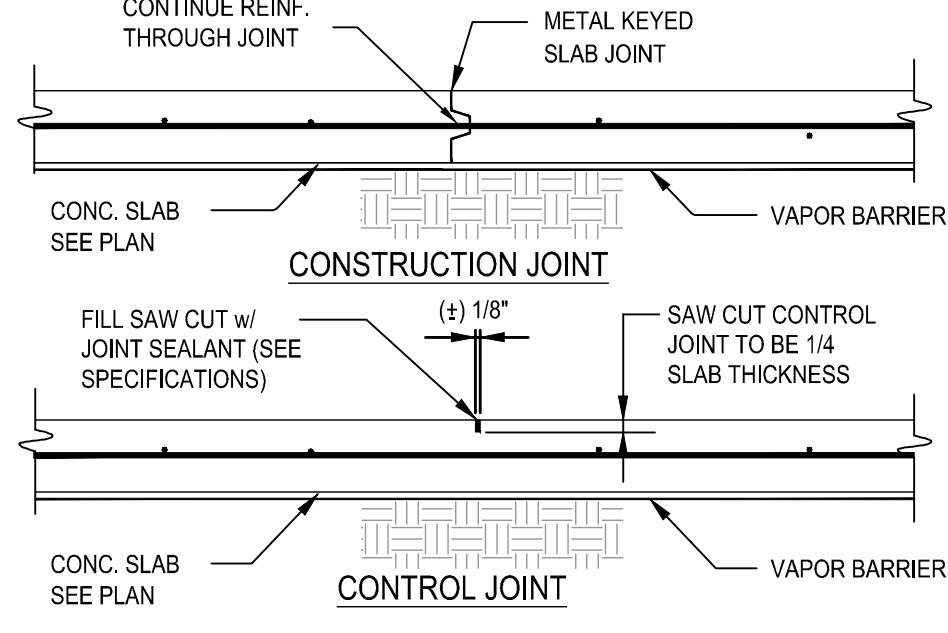
NOTES:
 1. ALL DIMENSIONS UNLESS OTHERWISE NOTED.
 2. REFER TO ALL OTHER SHEETS FOR COMPLETE INFORMATION.
 3. PRINTED BY: RALPH H. BOSWELL, DATE: 10/07/2024
 4. PROJECT NO.: 0E22121
 5. FILE NAME: 0E2217-SS-CORE
 6. ORIGINAL DRAWING SIZE: 36"x24"
 7. DATE: 2-07-2024



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

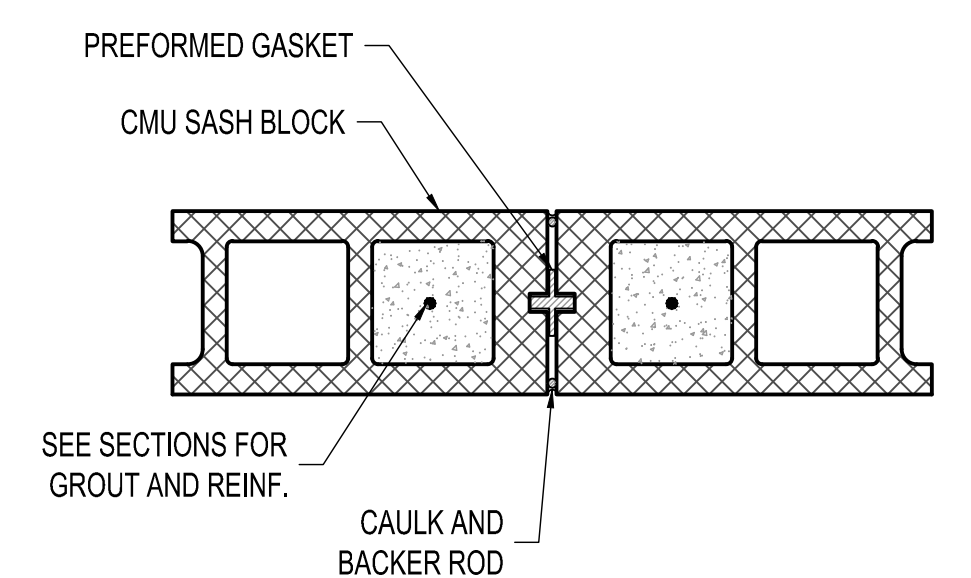


342 CURB AND GUTTER
N.T.S.

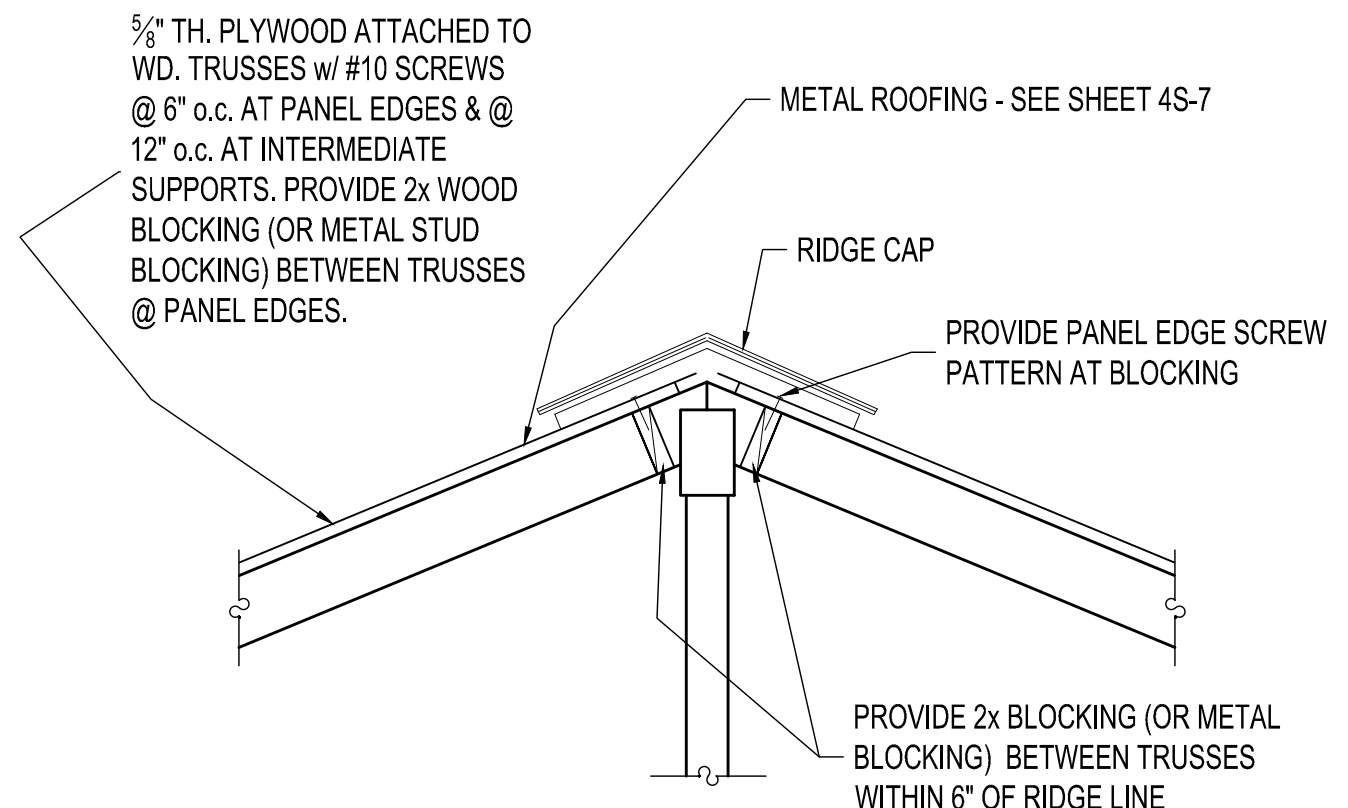


NOTES:
SAW CUT AS SOON AS SLAB CAN SUPPORT WEIGHT.
CONTROL JOINTS MAY BE REPLACED WITH CONSTRUCTION JOINTS.
CONTROL JOINTS SHALL BE SPACED AT NO MORE THAN 24'-0\"/>

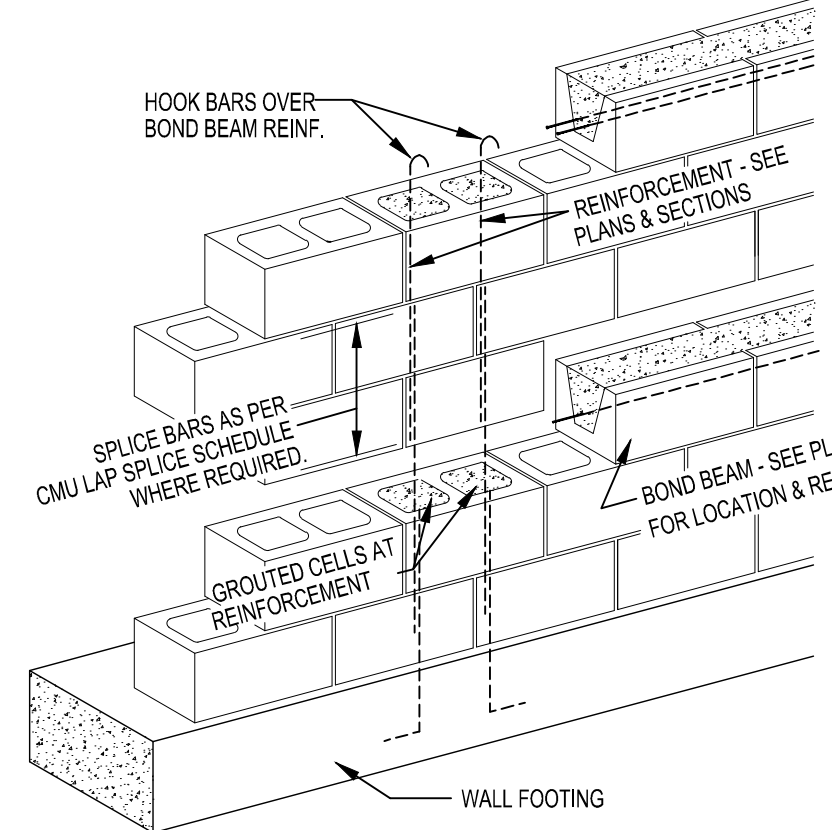
344 8" SLAB JOINT DETAILS
N.T.S.



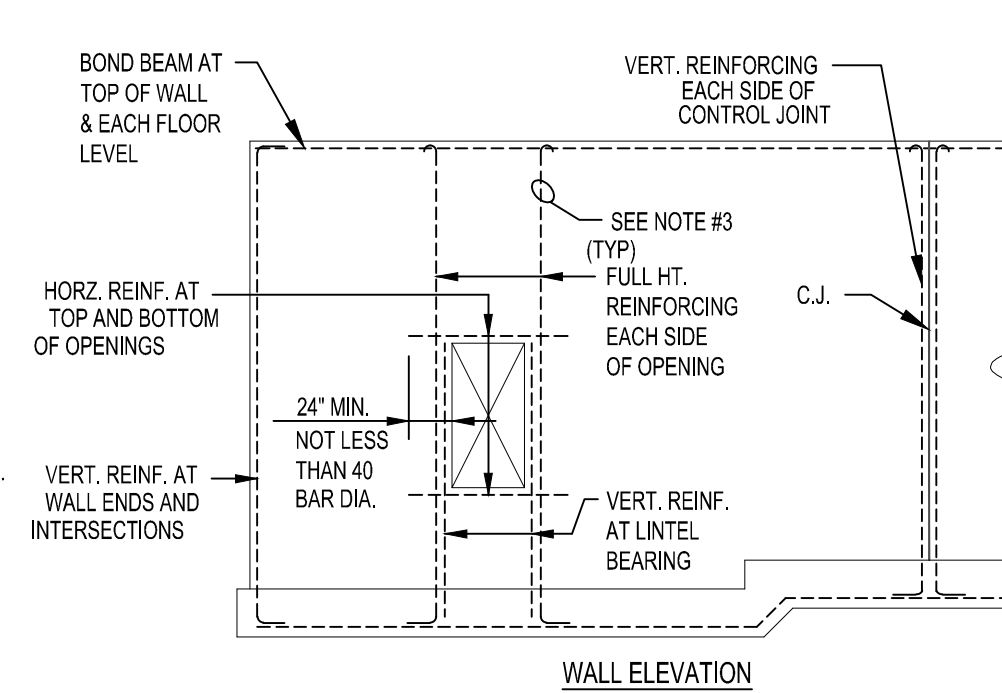
355 CMU CONTROL JOINT
N.T.S.



368 TRUSS RIDGE DETAIL
N.T.S.

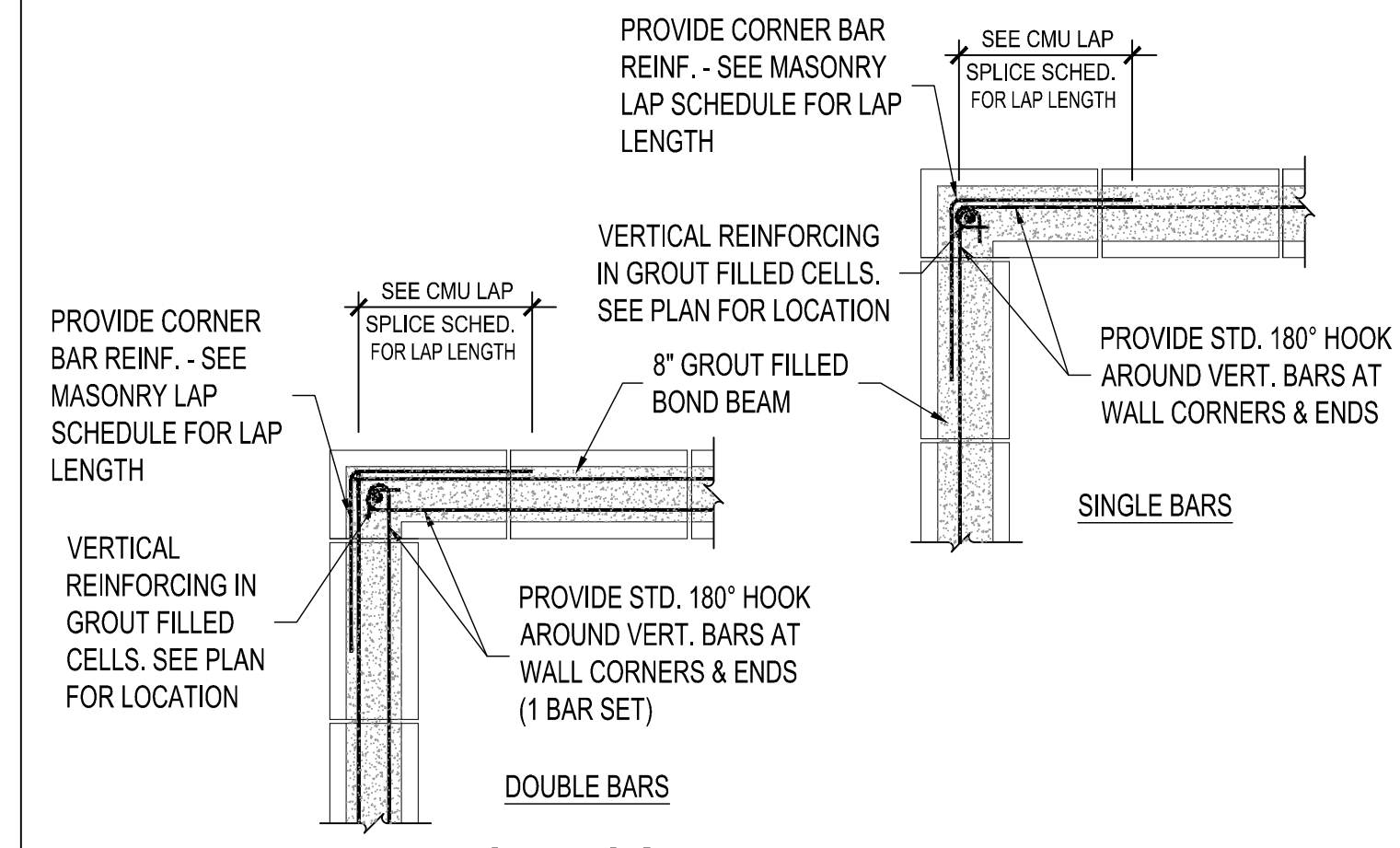


370 REINFORCED MASONRY CONSTRUCTION & REINFORCING
N.T.S.

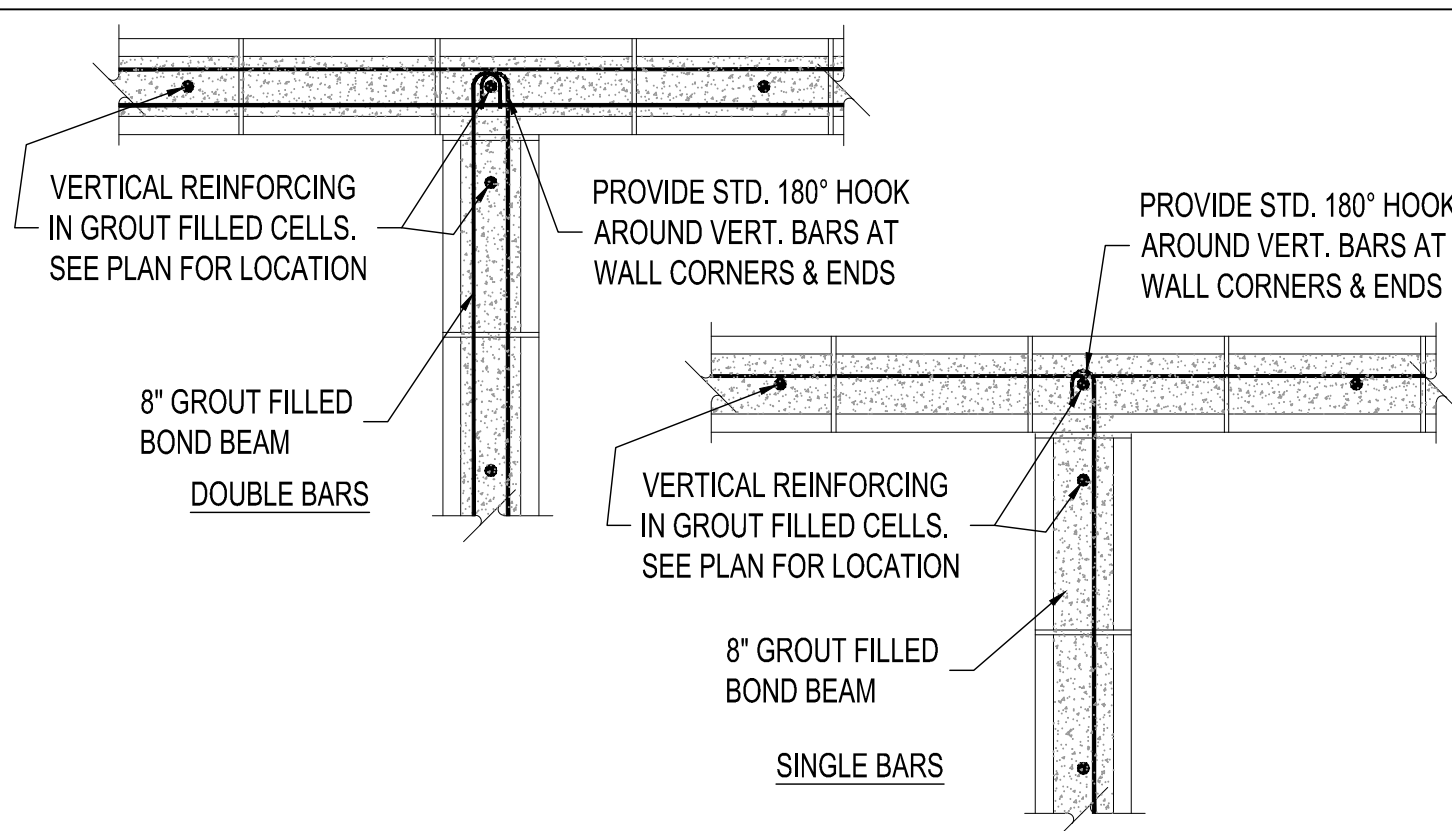


LOW LIFT GROUTING PROCEDURE:
1. CONSTRUCT WALL TO HEIGHT OF 4'-0". ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
2. INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.
3. LIGHTLY MET THE UNITS AND FILL CELLS TO 1/2" BELOW TOP COURSE.
4. DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING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

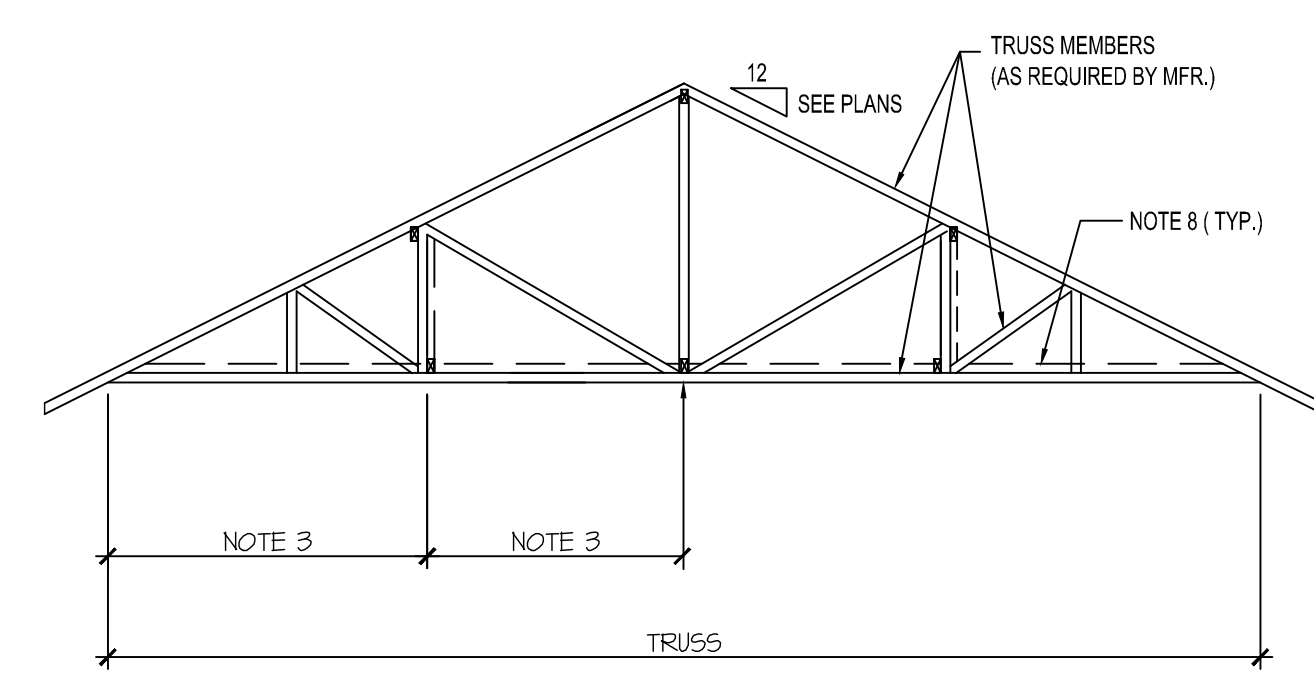
ELEVATION NOTES:
1. REINFORCING SHOWN SHALL BE MINIMUM #4 RE-BAR UNLESS SHOWN OTHERWISE ON PLANS AND DETAILS.
2. BOND BEAM REINFORCING SHOWN SHALL BE DISCONTINUED AT CONTROL JOINTS.
3. PROVIDE 4" x 4" OPENING IN BOTTOM OF BOND BEAM FOR PASSAGE OF VERTICAL REINFORCING IN CMU BOND BEAM. PROVIDE 1" HOLE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



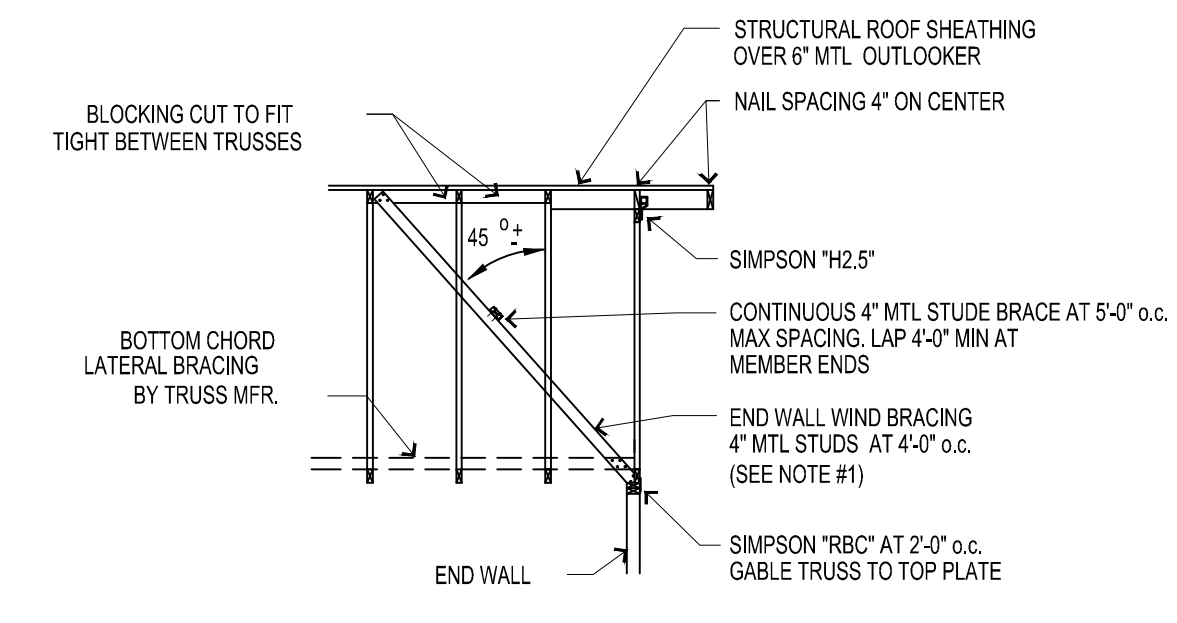
375 CMU CORNER WALL DETAIL
N.T.S.



376 CMU INTERSECTING WALL DETAIL
N.T.S.

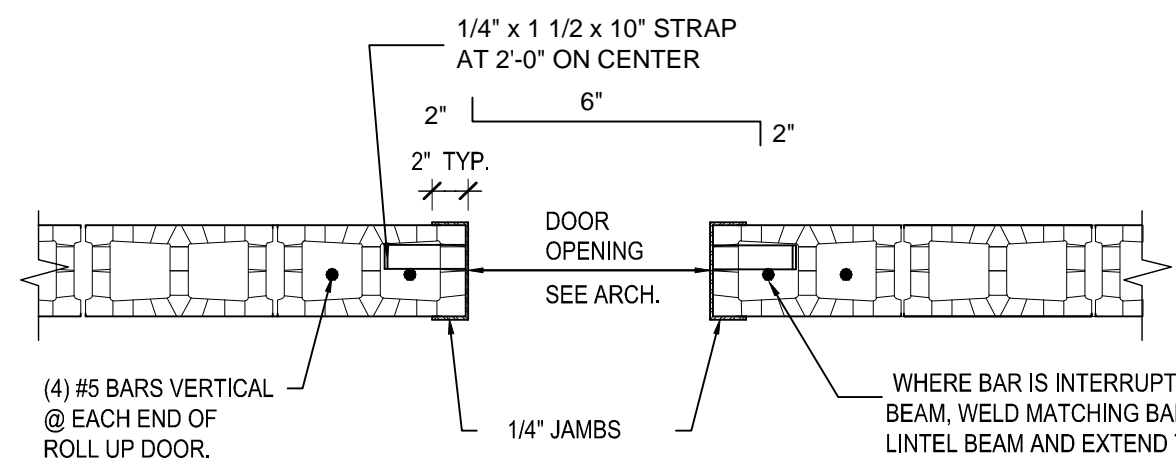


1. TRUSS AS SHOWN DOES NOT REPRESENT ACTUAL TRUSS DESIGN OR LAYOUT. SECTION SHOWN IS INTENDED FOR PERMANENT BRACING REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS FOR TRUSS CONFIGURATION.
2. TEMPORARY BRACING FOR ERECTION PURPOSES IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
3. MAXIMUM HORIZONTAL DISTANCE 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 APPROPRIATE SCREWS TO ATTACH LATERAL BRACING AT EACH TRUSS.
7. PROVIDE VERTICAL V-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.

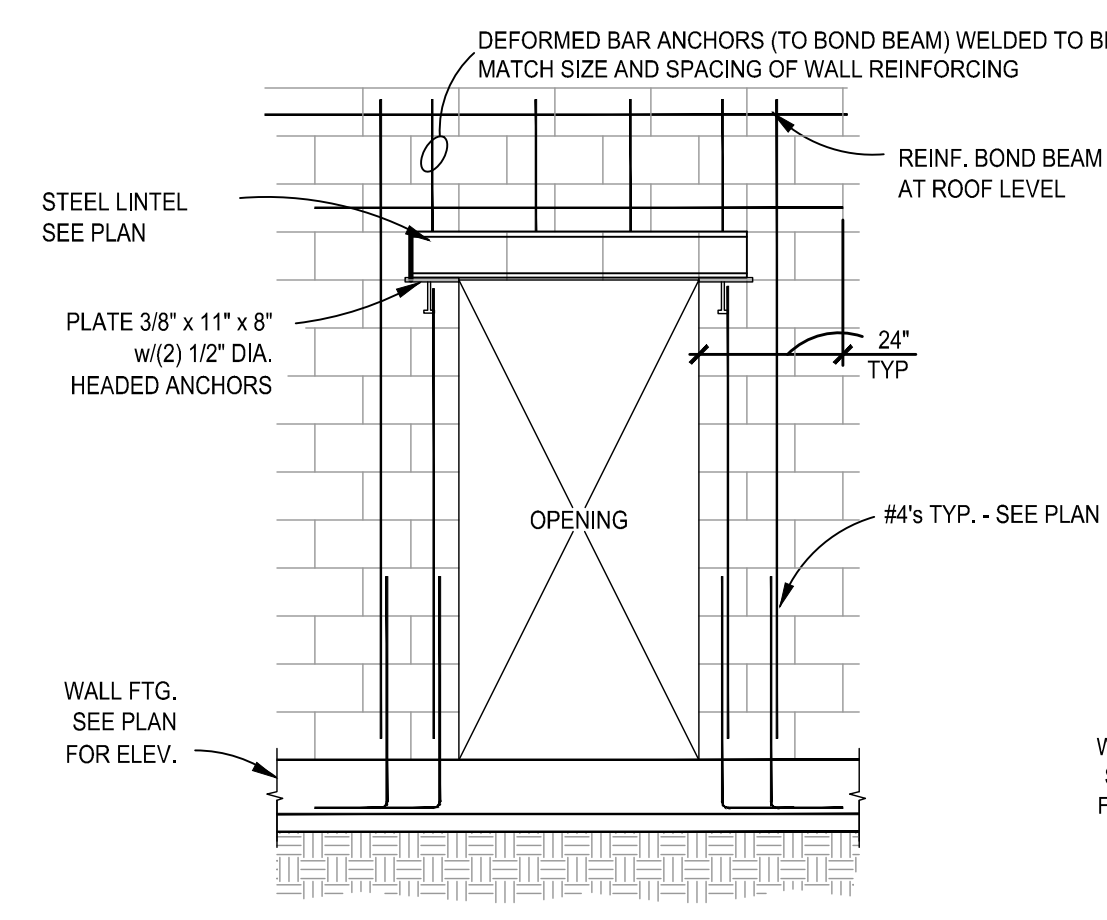


SECTION at GABLE END

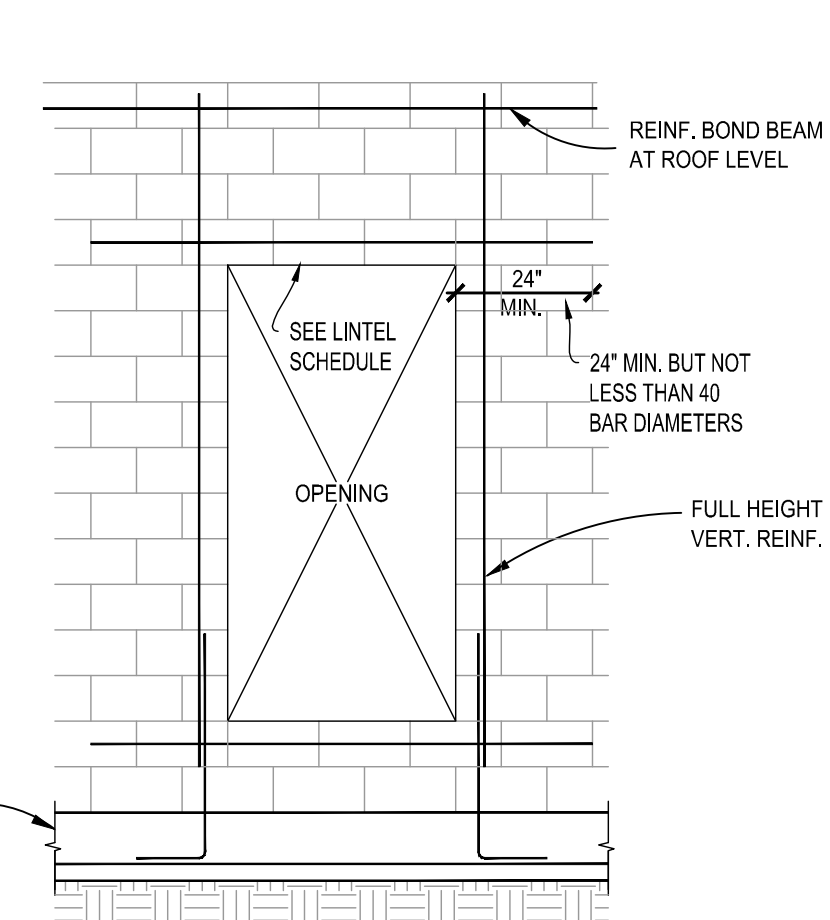
1. END WALL WIND BRACING MAY BE OMITTED IF GYPSUM BOARD DIAPHRAGM IS NAILED TO TRUSS BOTTOM CHORD.



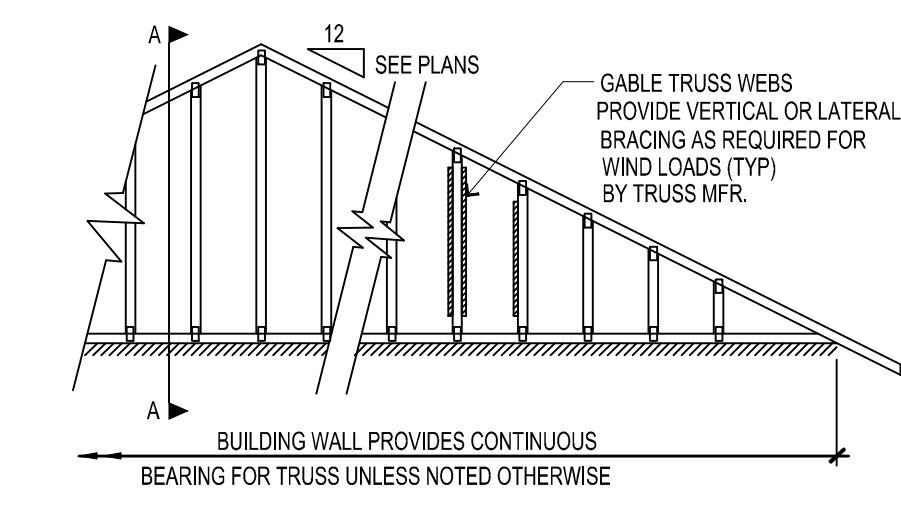
372 ROLL-UP DOOR JAMB REINF.
N.T.S.



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

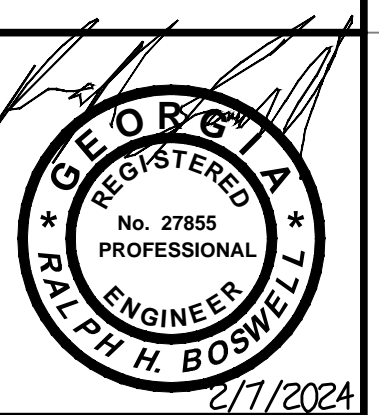
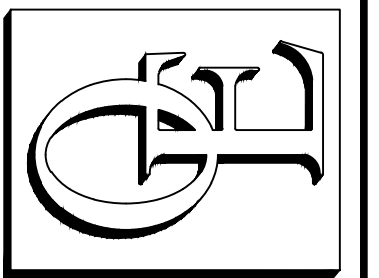


373b WALL REINF. @ OPENING
N.T.S.



380 PERMANENT TRUSS BRACING DETAIL
N.T.S.

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ATTORNEYS AT LAW
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WASTEWATER TREATMENT PLANT
EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY, GEORGIA

| MARK | DATE | BY | DESCRIPTION |
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DESIGNED: 02/22/21
DRAWN: 02/21/21-SS-CORE
CHECKED: 02/22/21-SS-CORE
APPROVED: 02/22/21-SS-CORE
DATE: 2-07-2024
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CHEMICAL BUILDING
DETAILS

DOOR SCHEDULE

| DOOR NUMBER | DOOR LOCATION | DOORS | | | | | | FRAME | | | | | | LABEL | HDW. SET (NOTE 1) | REMARKS | DOOR NUMBER |
|-------------|-------------------|-------|--------|--------|--------|------------|-------------|--------|------|----------|--------|----------|----------|-------|-------------------|---------|-------------|
| | | TYPE | WIDTH | HEIGHT | THICK | MAT'L | FINISH | SIZE | TYPE | MATERIAL | FINISH | HEAD | JAMB | | | | |
| 801 | CHEMICAL BUILDING | A | 12'-0" | 16'-0" | - | STL | PREFINISHED | - | - | - | - | 3/8S-3 | 372/8S-5 | - | - | - | 801 |
| 802 | CHEMICAL BUILDING | B | 3'-0" | 7'-0" | 1-3/4" | FIBERGLASS | PAINT | 7-1/4" | 1 | H.M. | PAINT | H-1/8S-6 | J-1/8S-6 | - | 45 MIN. | 1 | 802 |

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.

ROOM FINISH SCHEDULE

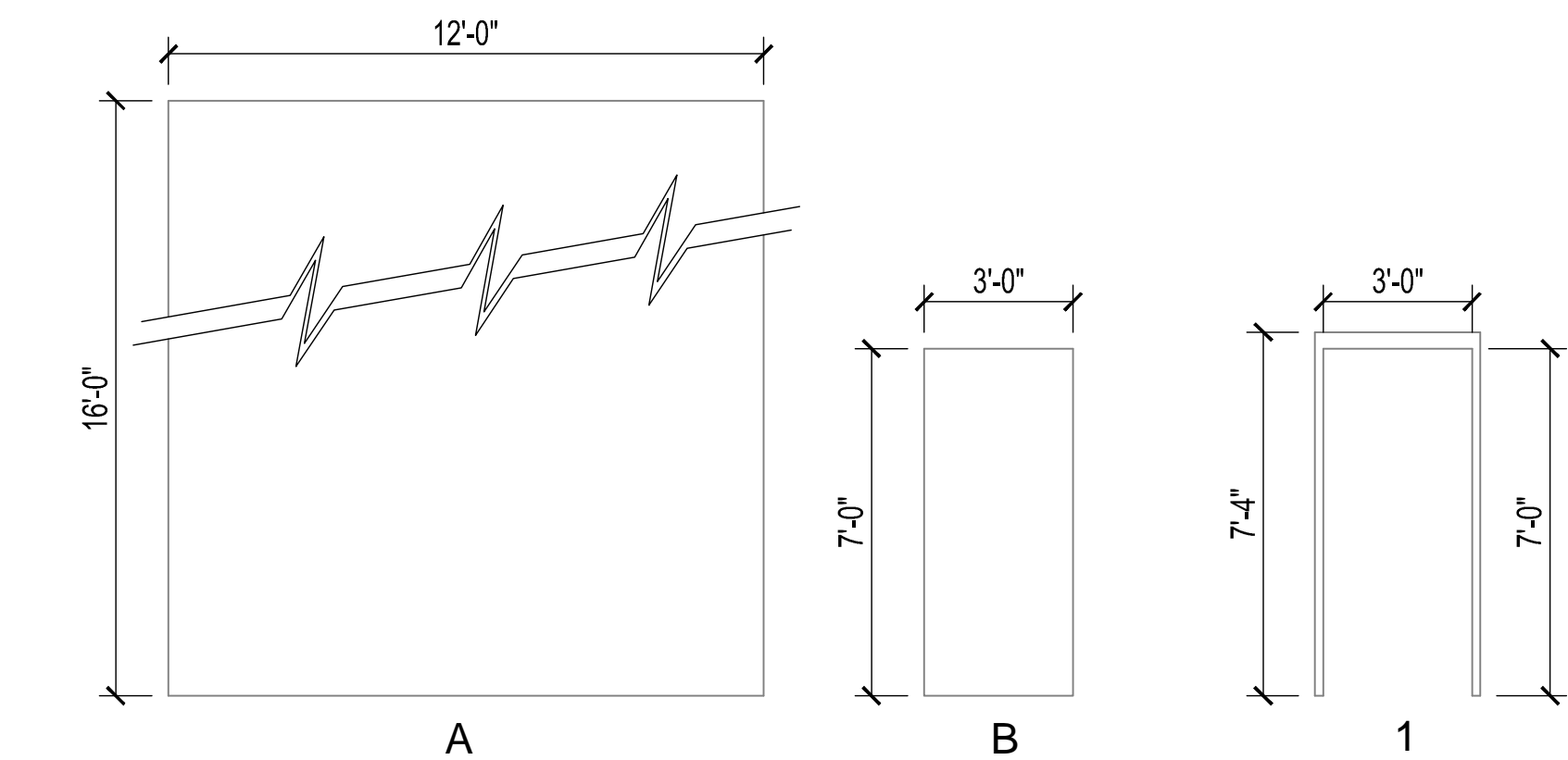
| KEY | FLOOR | BASE | WALLS | CEILING | NOTES |
|-----|-------------------|------|----------------|-------------------|--------|
| ⊗ | SEALED CONCRETE | NONE | PAINTED CMU-F1 | PAINTED GYPSUM BD | HEIGHT |
| NO. | NAME | | | | |
| | CHEMICAL BUILDING | | | | 8'-8" |

ROOM FINISH NOTES

LIST OF FINISHES

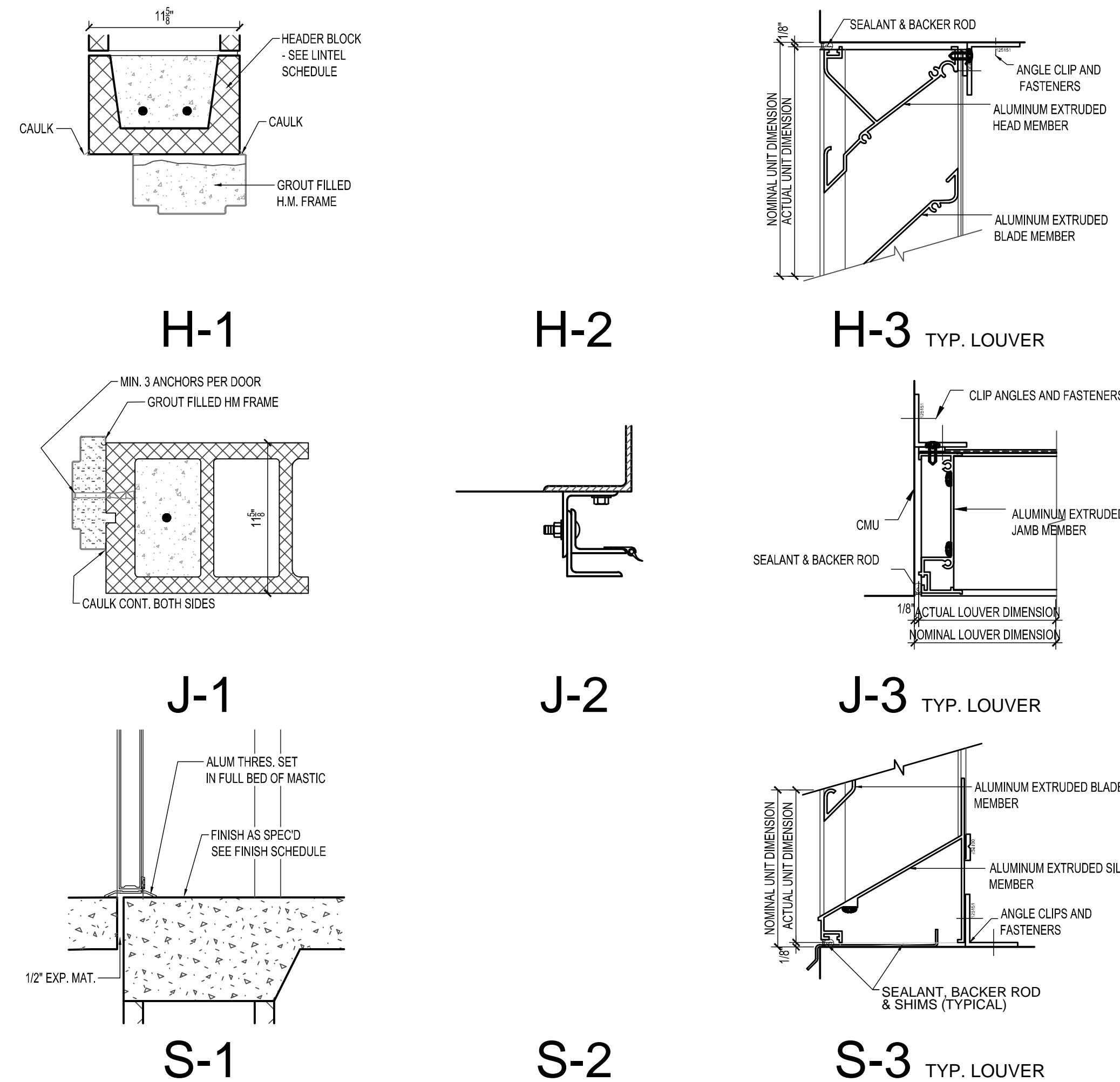
INTERIOR PAINT

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

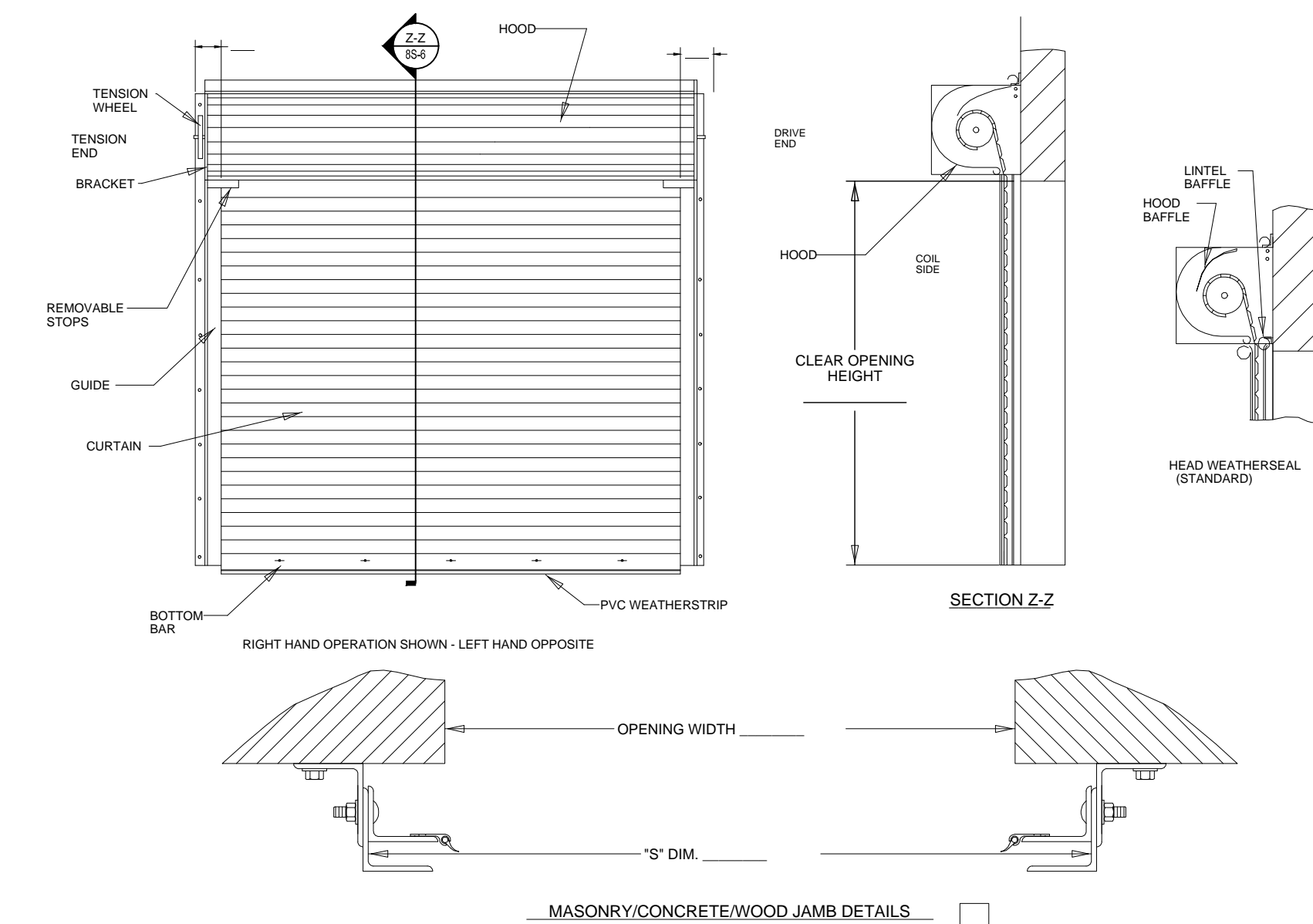


DOOR AND LOUVER DETAILS

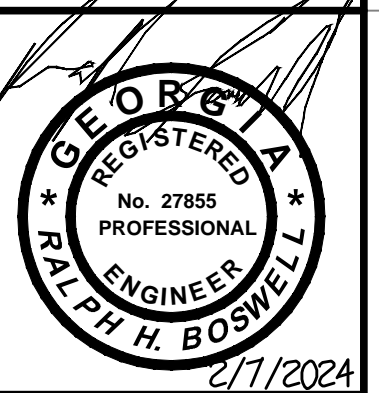
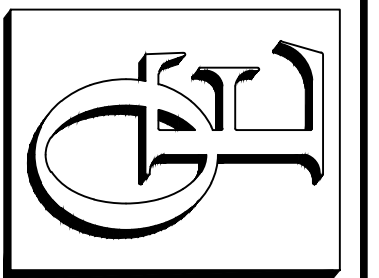
DOOR AND LOUVER DETAILS



ROLL UP DOOR DETAIL



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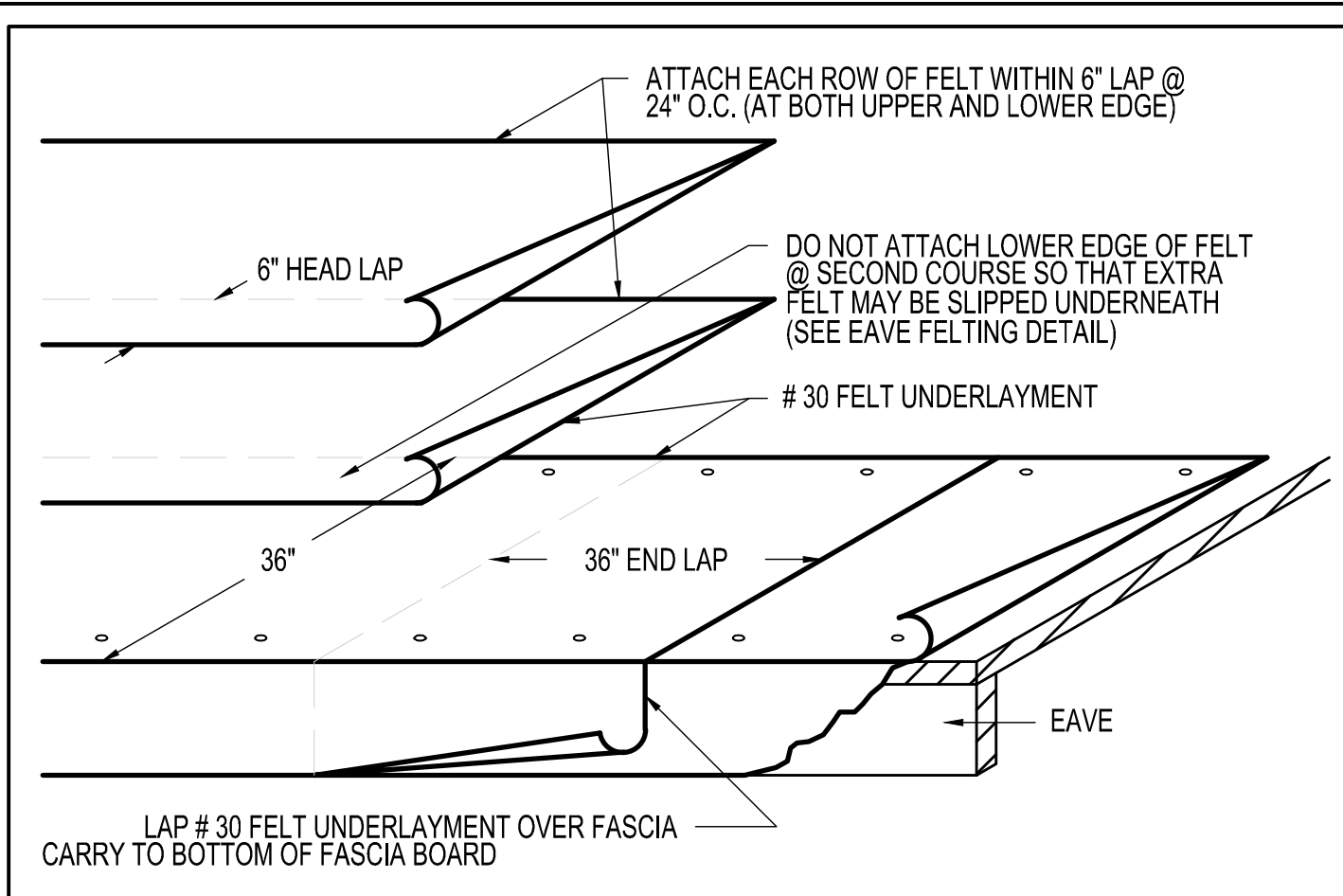


WASTEWATER TREATMENT PLANT
 EXPANSION
 FOR:
 THE CITY OF RINCON
 EFFINGHAM COUNTY, GEORGIA

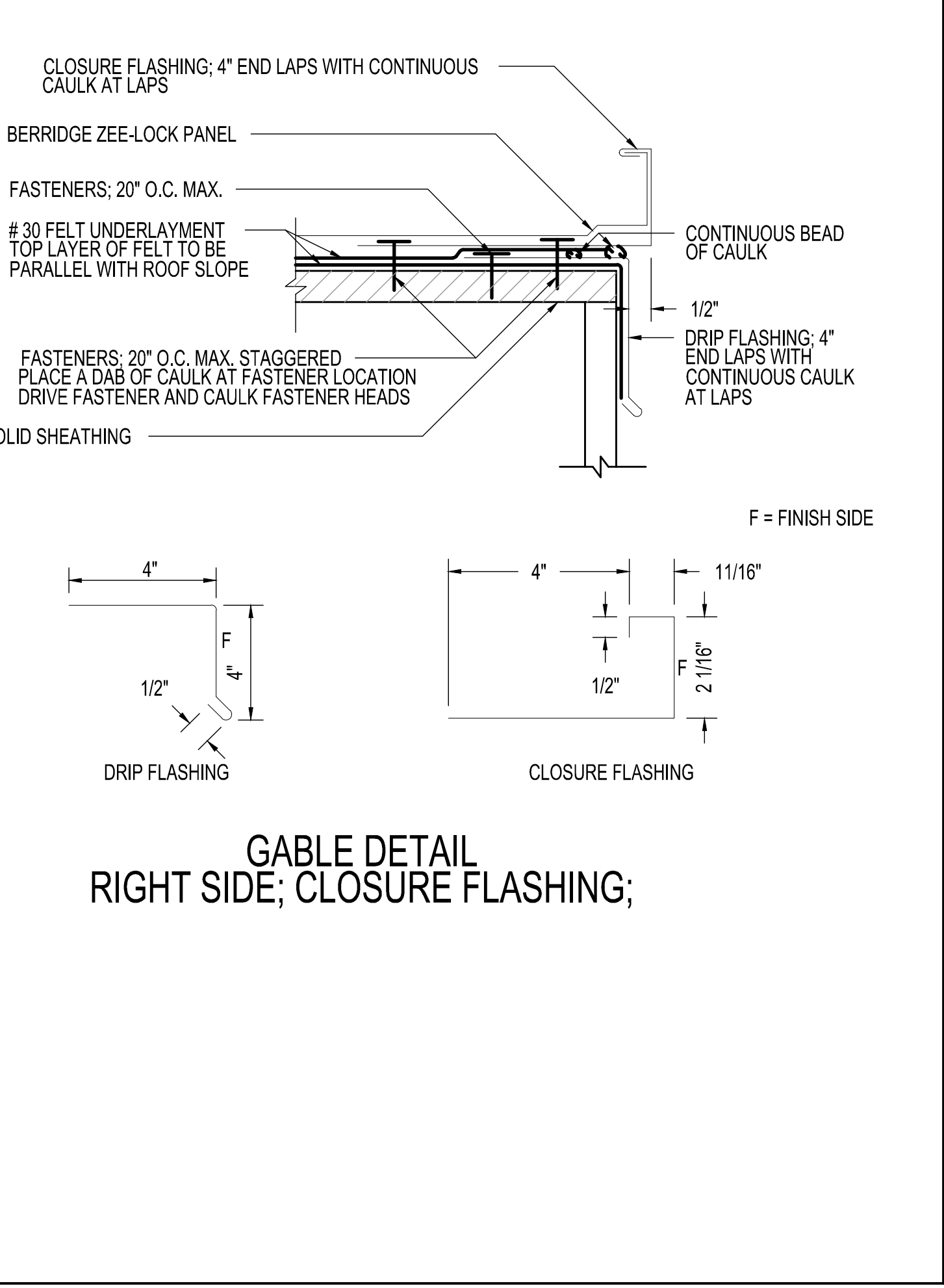
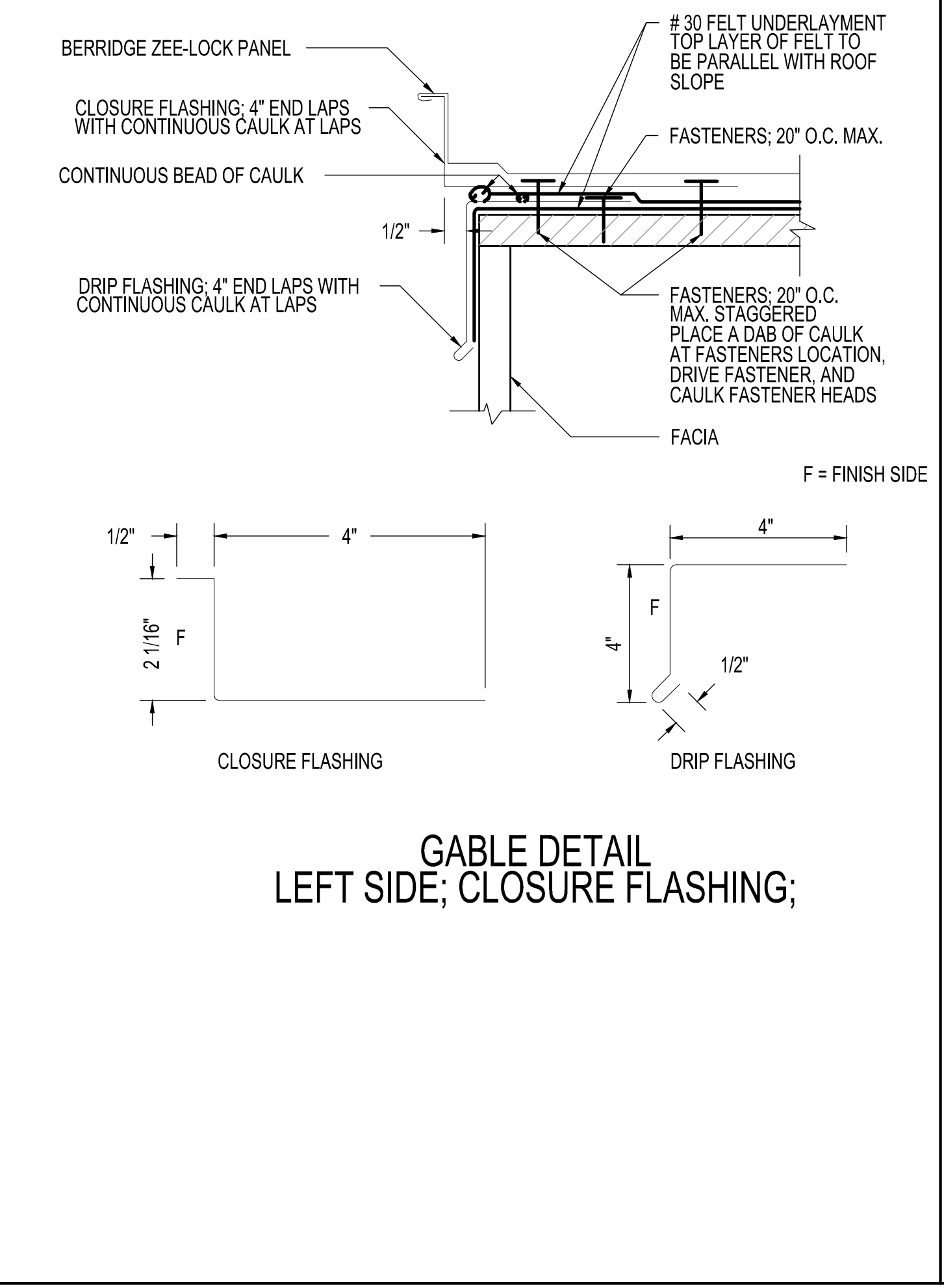
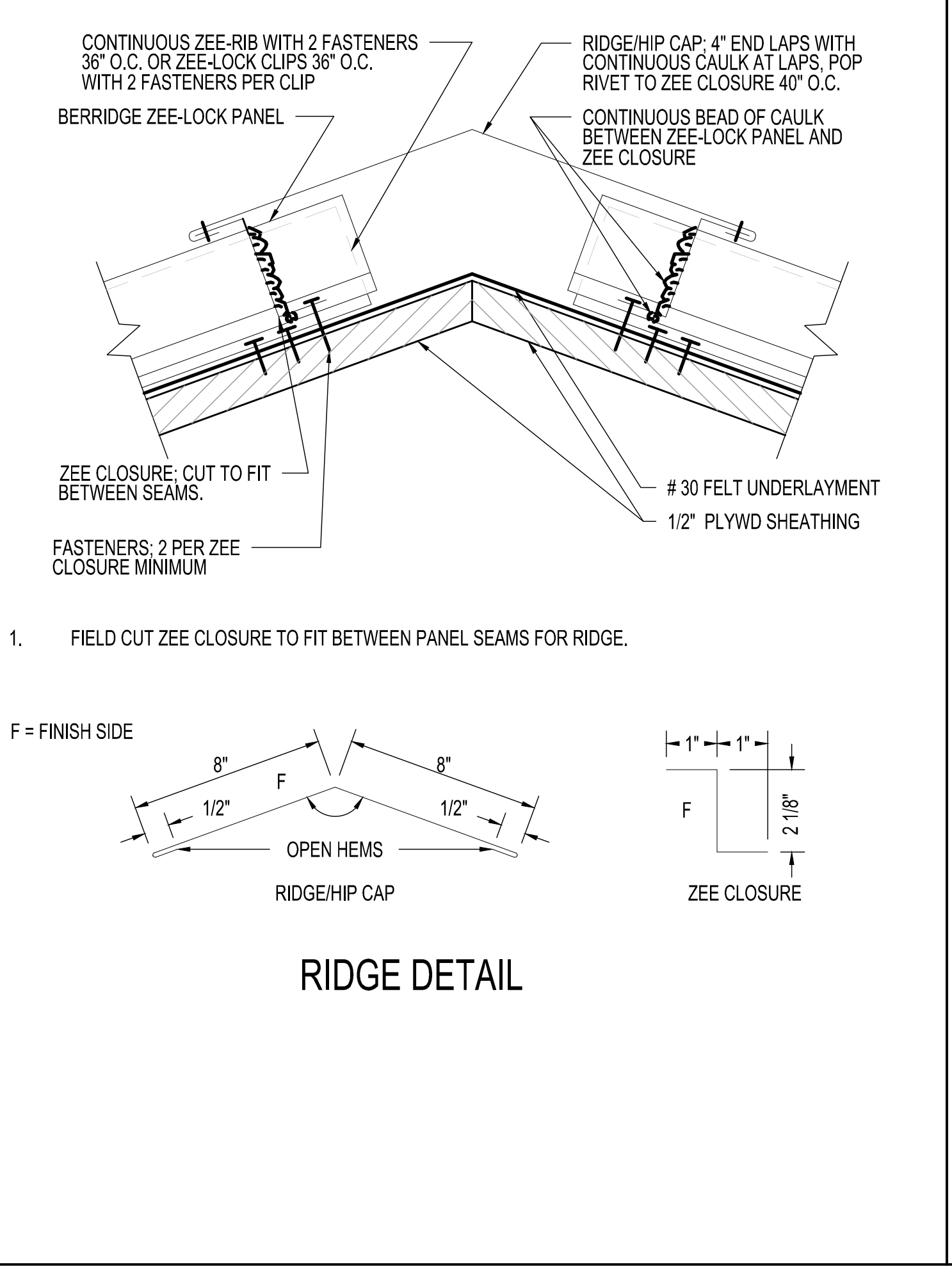
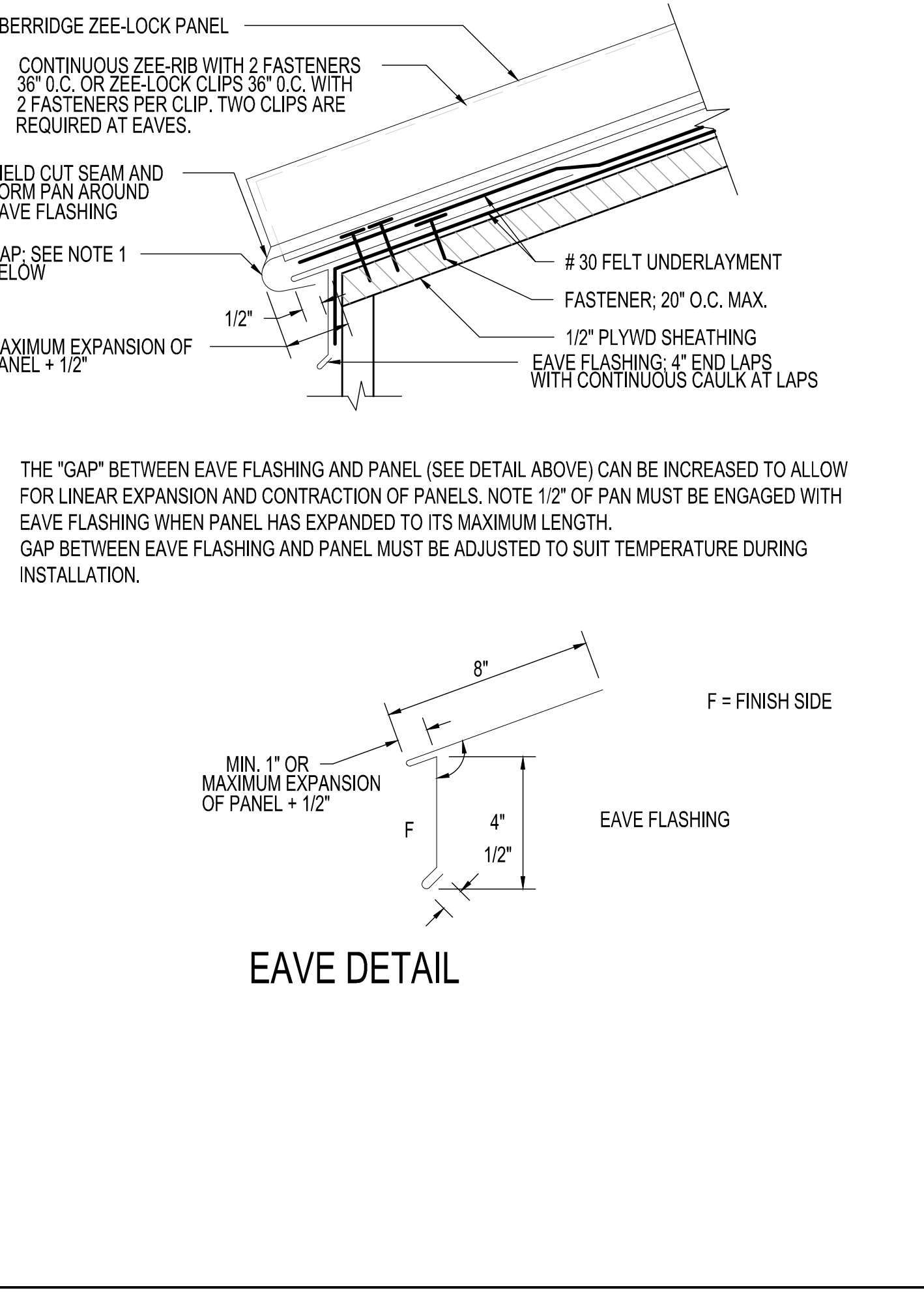
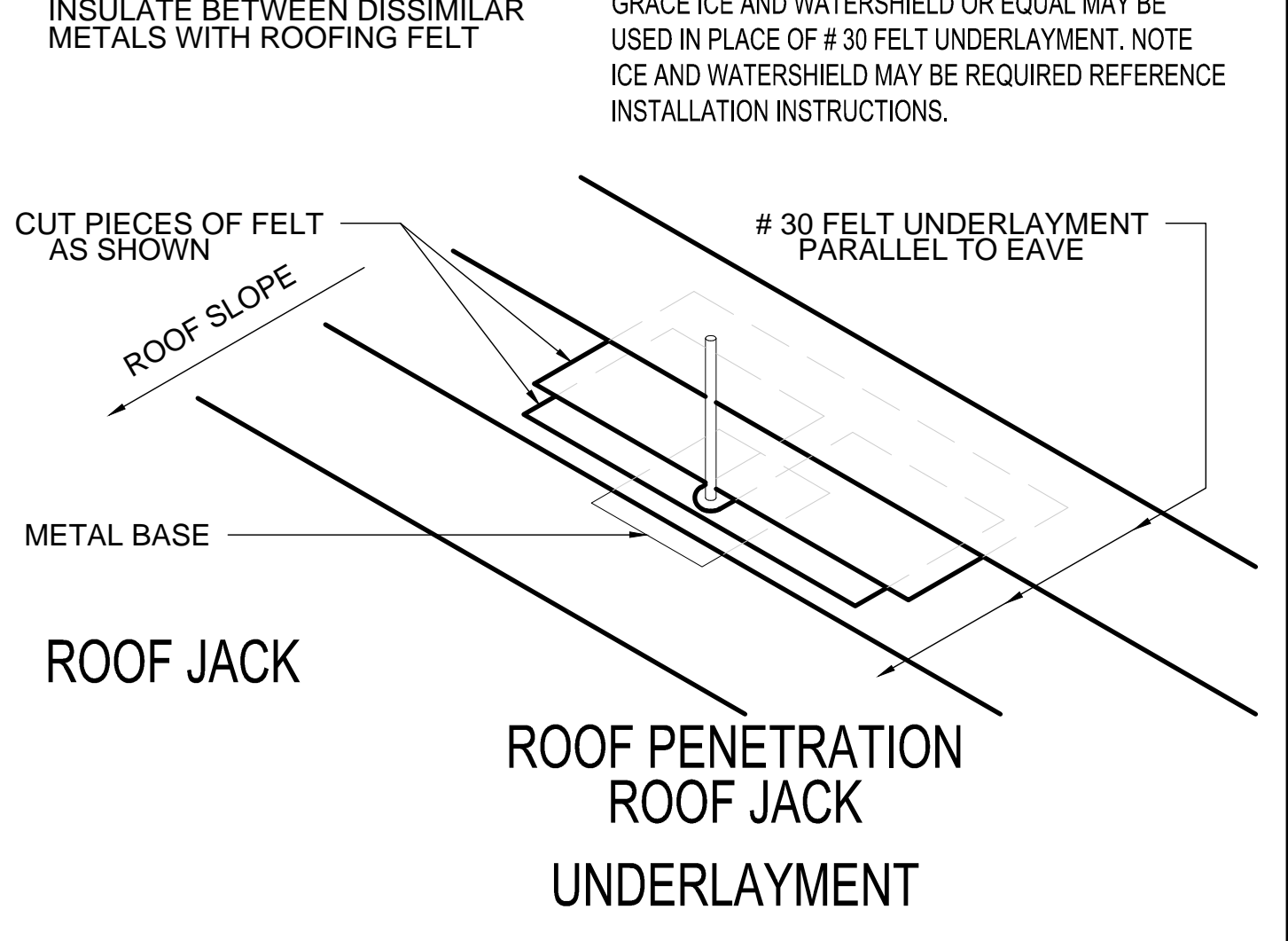
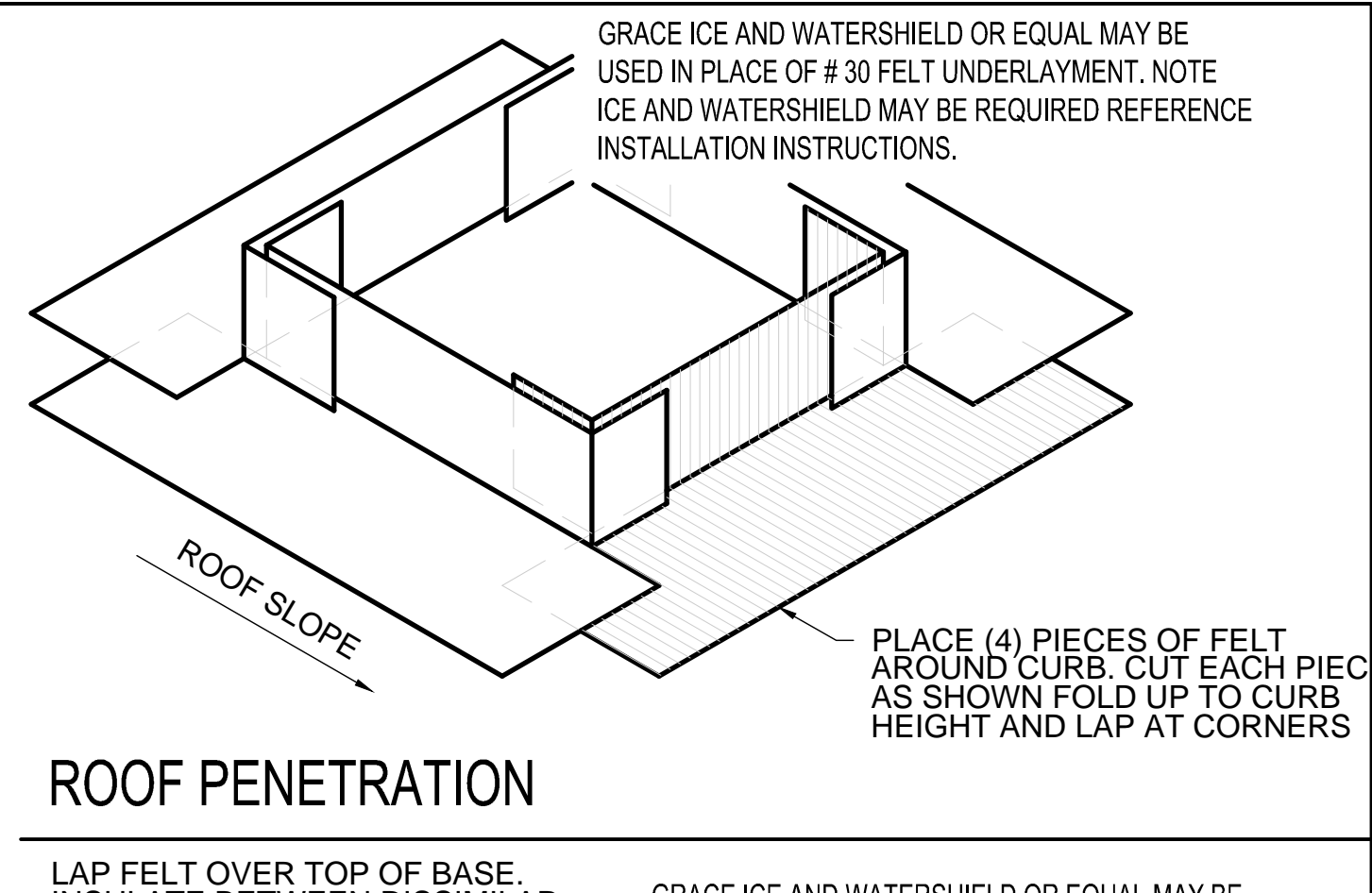
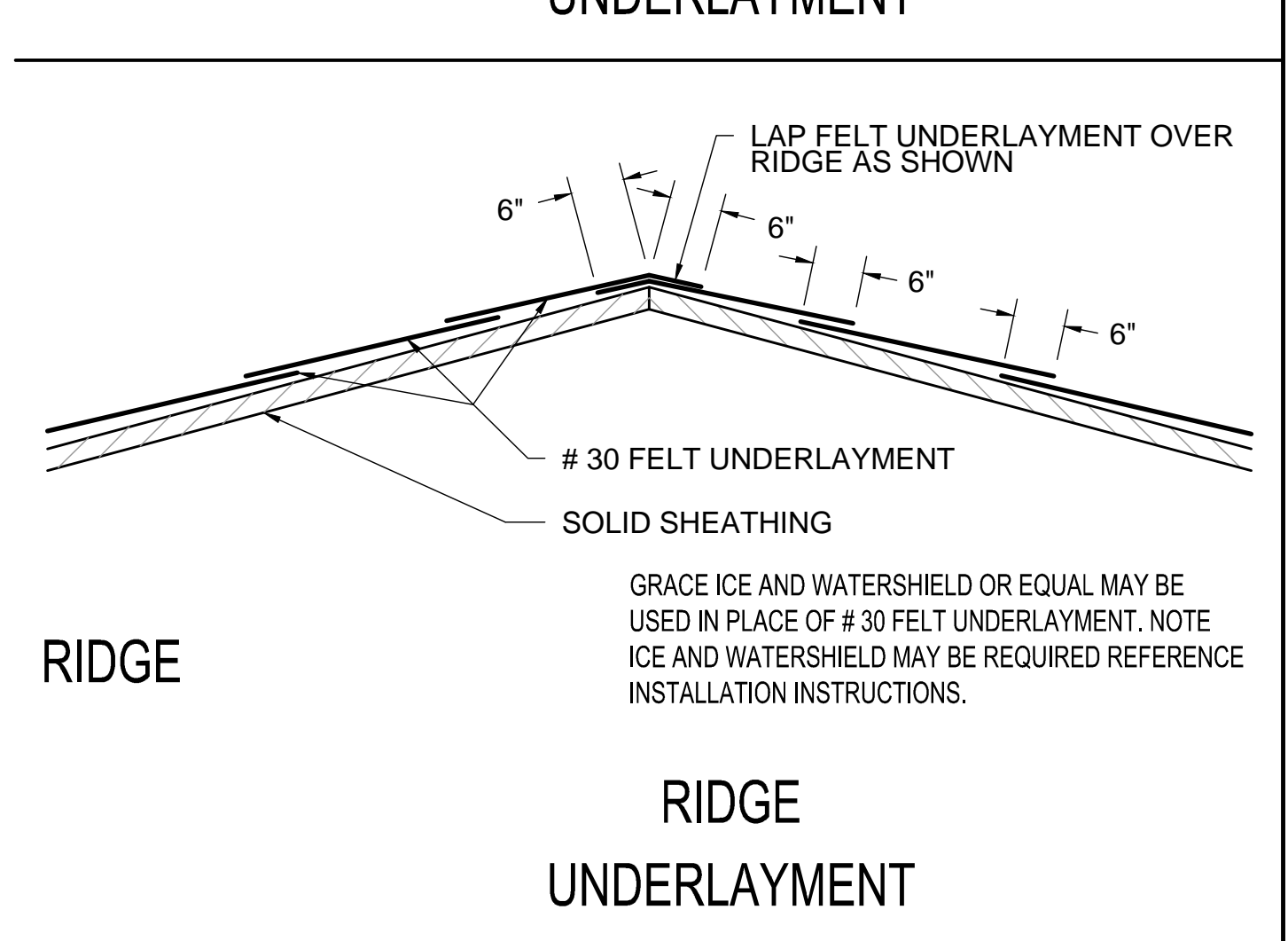
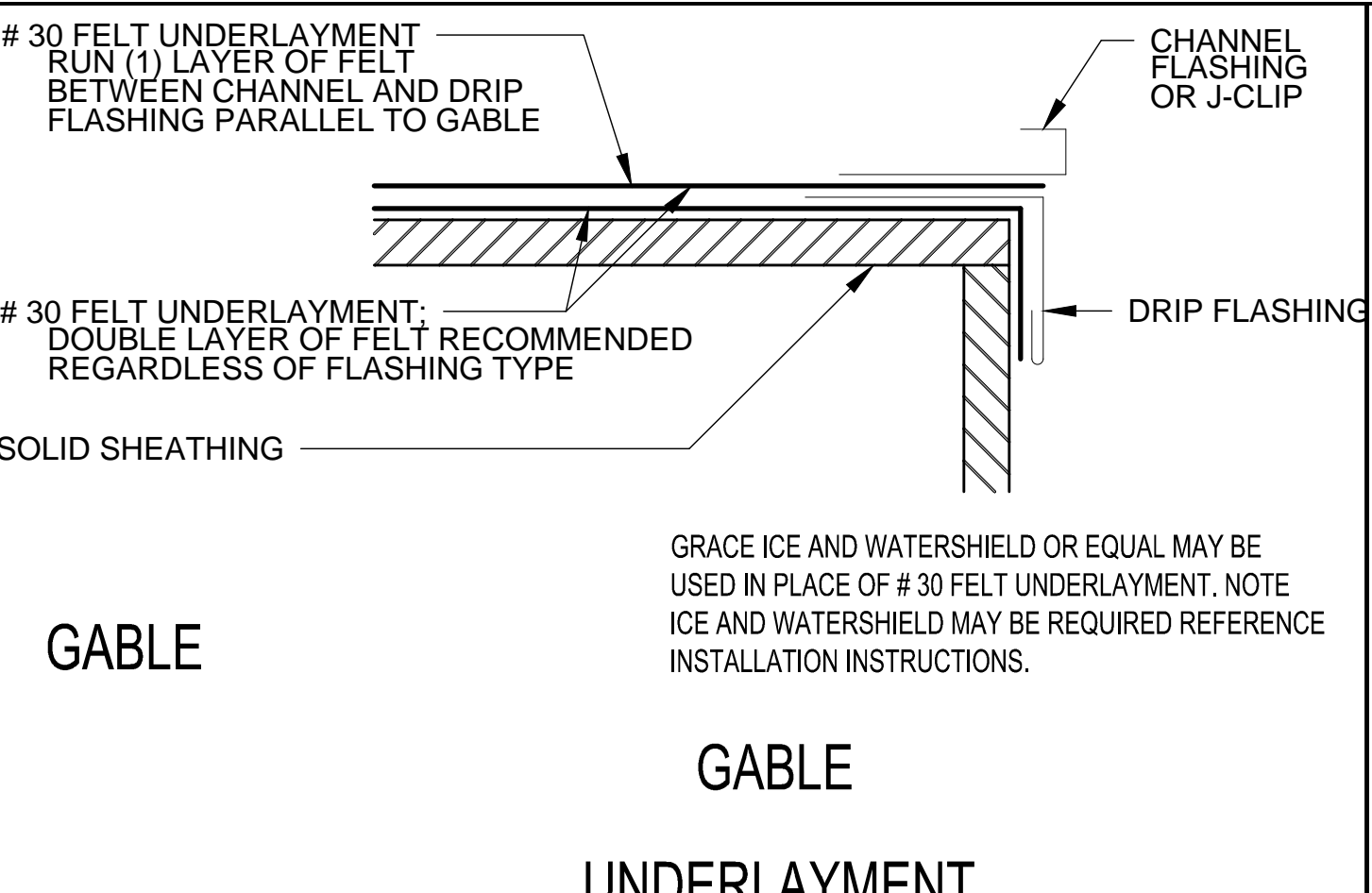
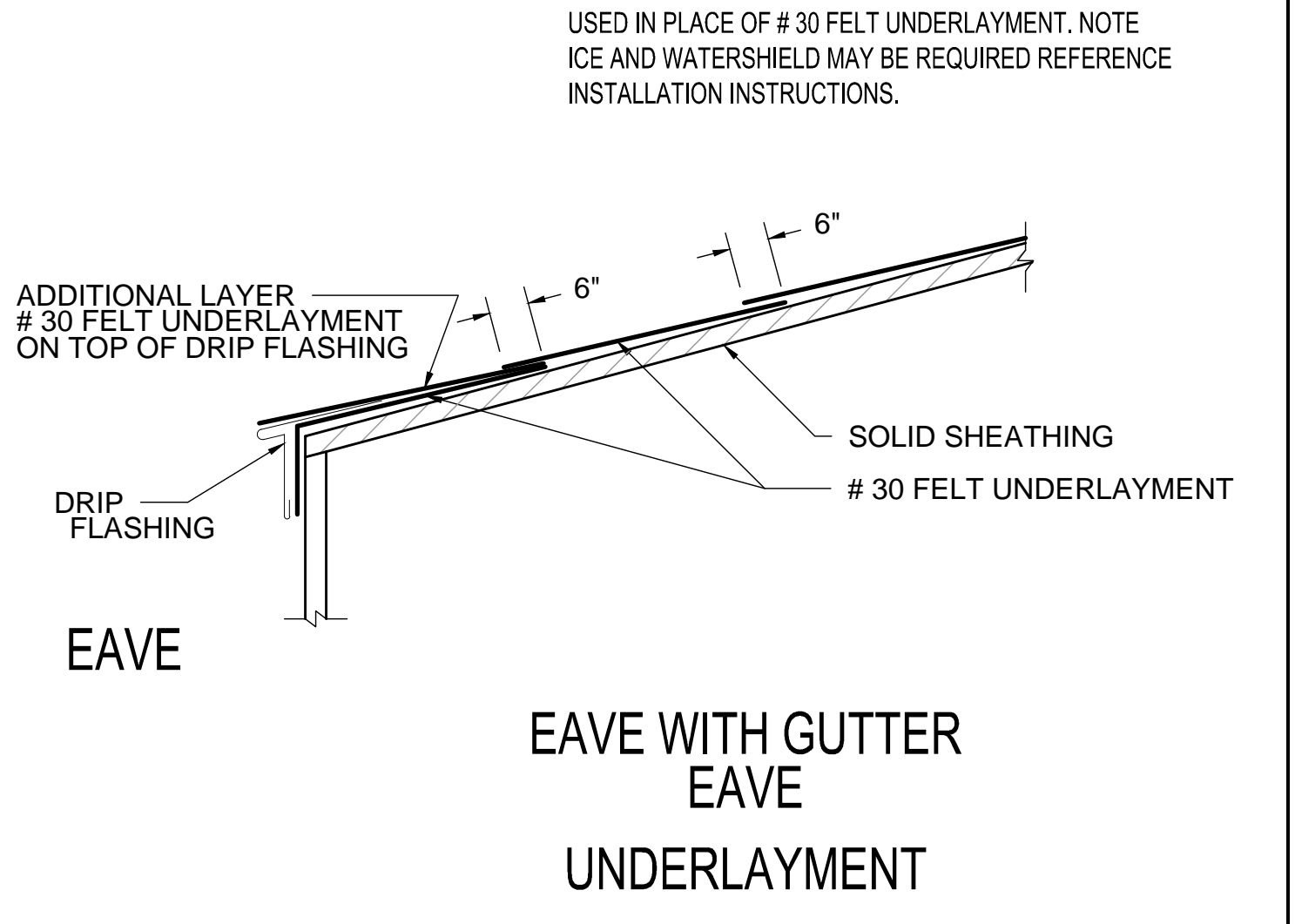
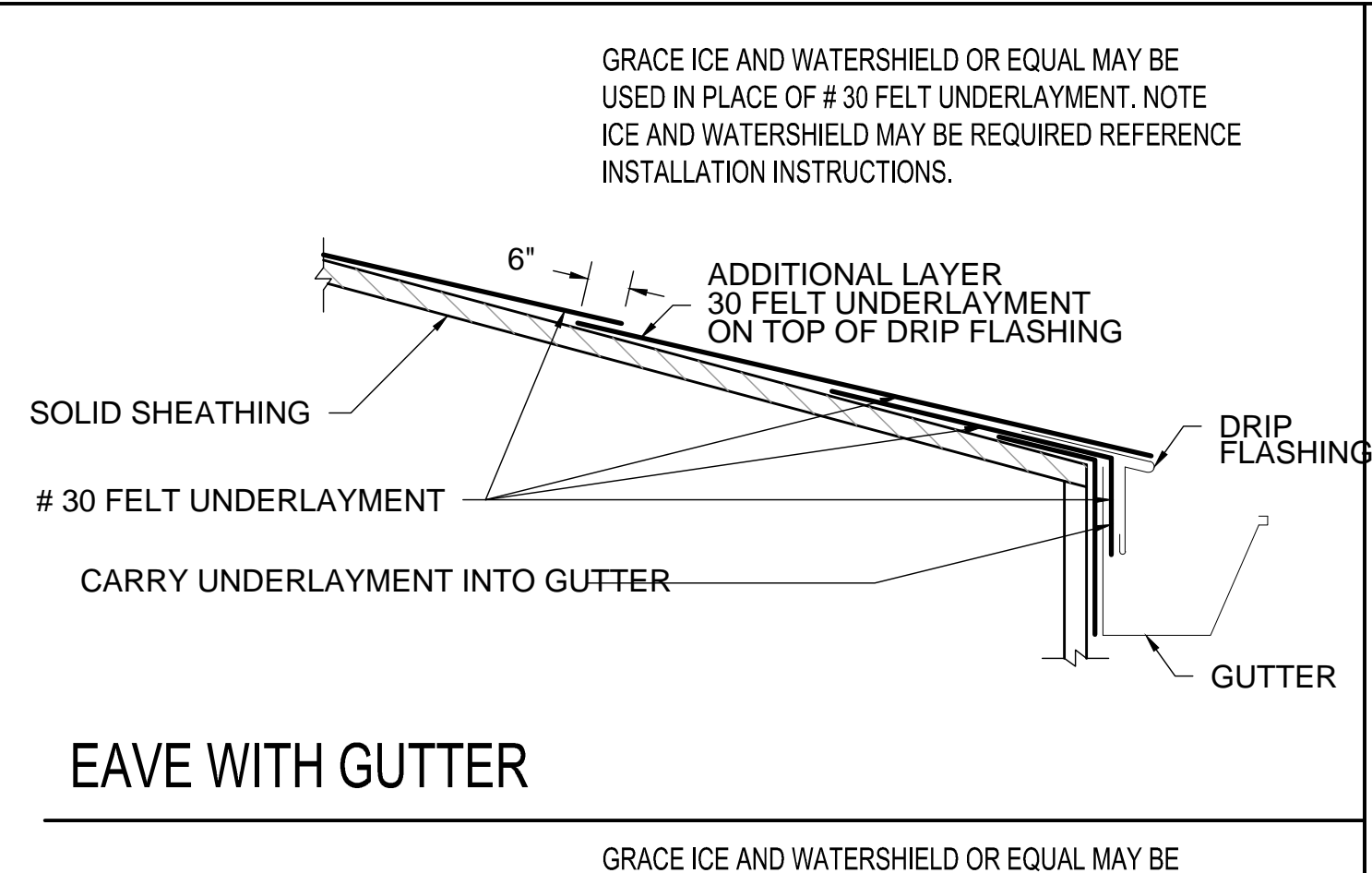
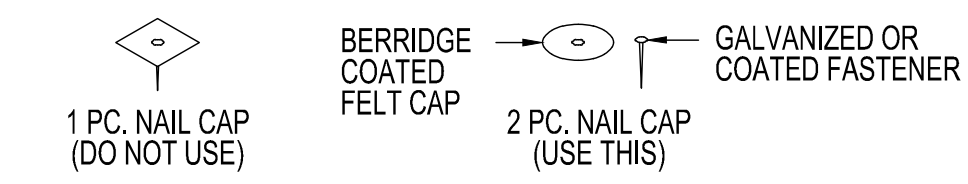
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| 1 | 08/18/2023 | EPD | SUBMITTAL ISSUE FOR REVIEW |
| 2 | 2/7/2024 | EPD | ISSUE FOR REVIEW |

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 CHECKED:
 APPROVED:
 DATE: 2-07-2024
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CHEMICAL BUILDING
 DETAILS & SCHEDULES



- 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.



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REGISTERED PROFESSIONAL ENGINEER
 No. 27855
 RALPH H. BOSWELL
 2/7/2024

WASTEWATER TREATMENT PLANT EXPANSION FOR THE CITY OF RINCON EFFINGHAM COUNTY, GEORGIA

| MARK | DATE | BY | DESCRIPTION |
|------|------------|----|------------------|
| | 2/7/2024 | | ISSUE FOR REVIEW |
| | 02/02/2024 | | |

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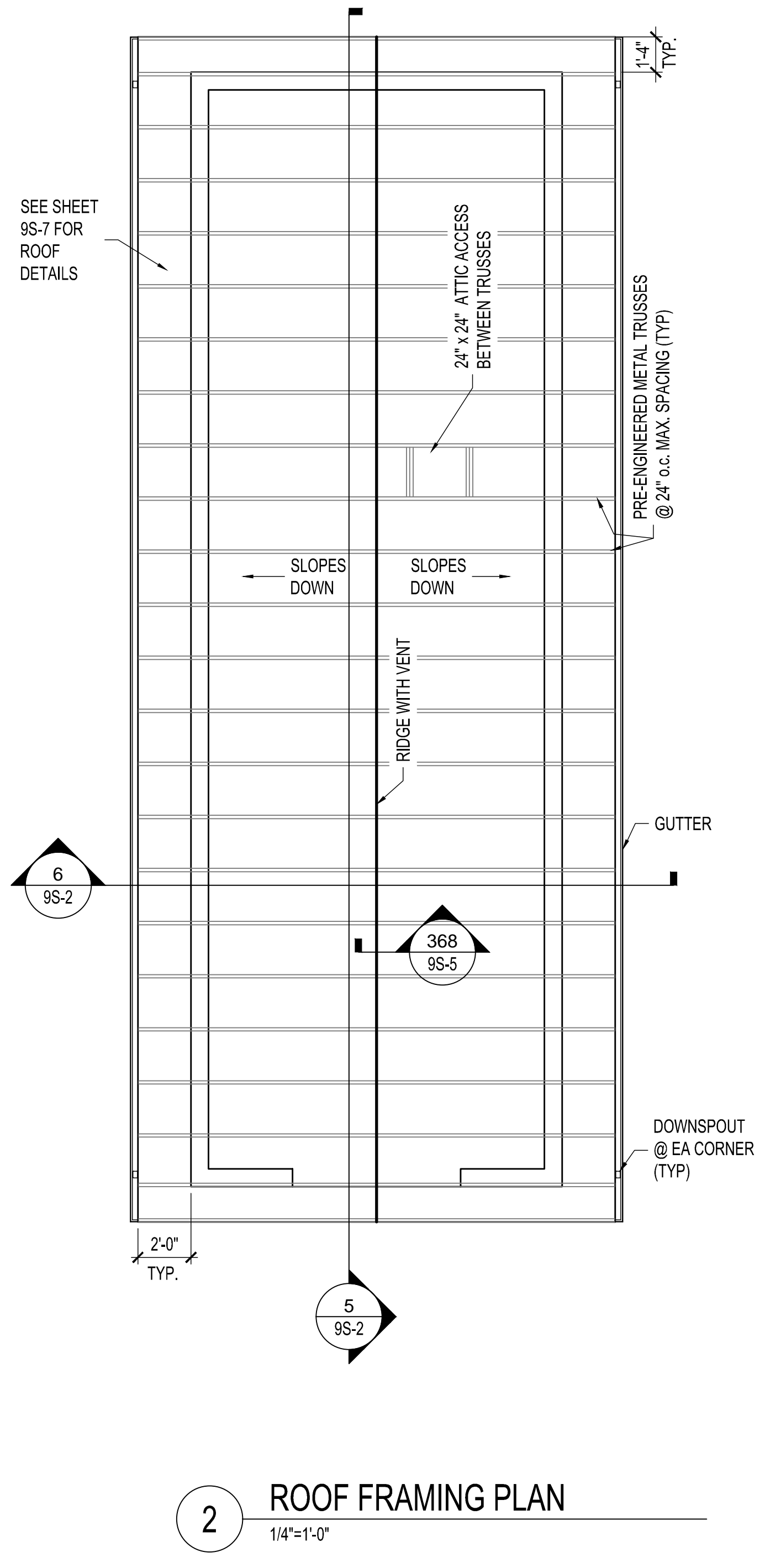
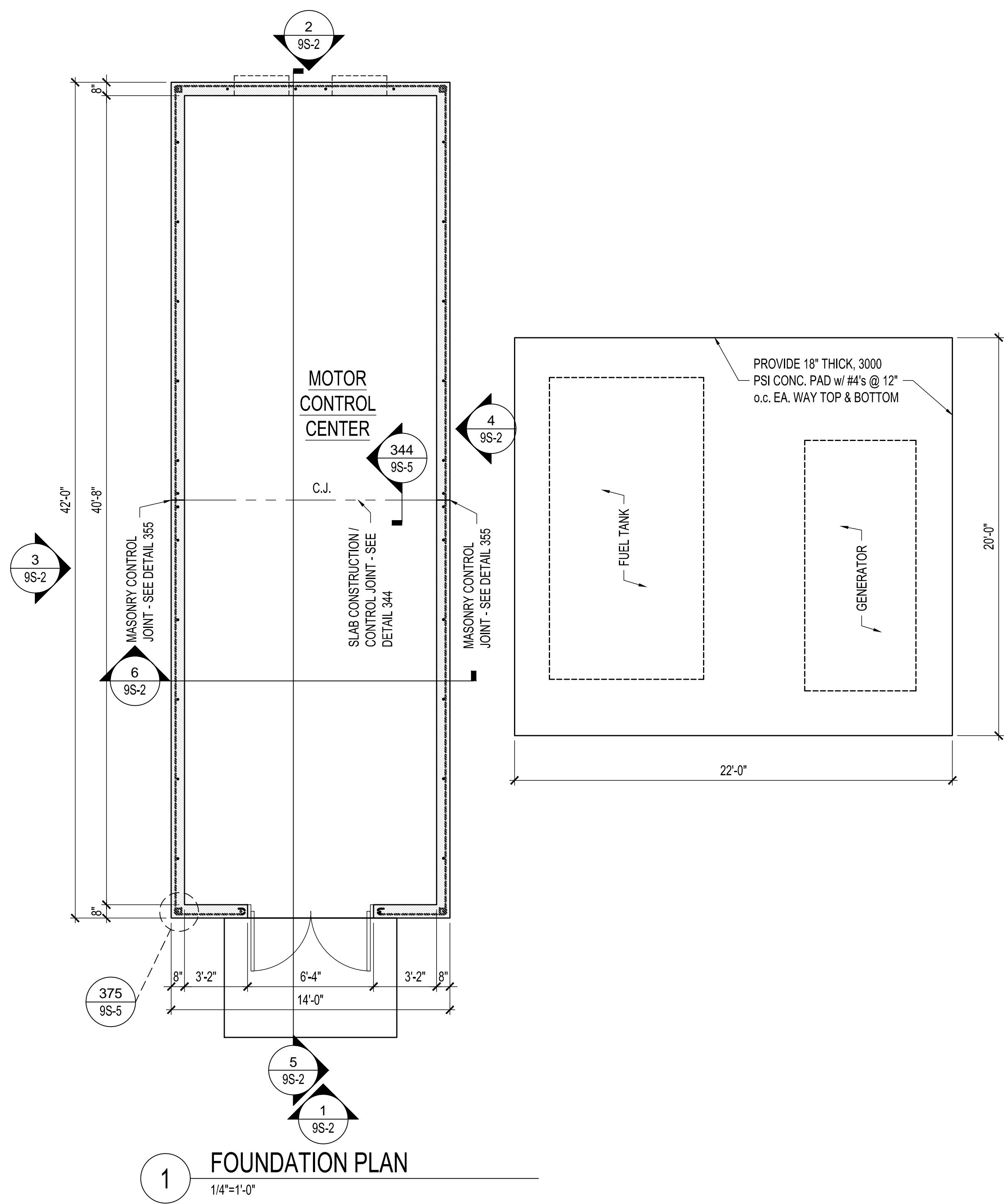
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CHEMICAL BUILDING

ROOF DETAILS

8S-7
 SHEET 7 OF 07

NOTES: 1. ALL DIMENSIONS UNLESS OTHERWISE NOTED. 2. ALL WALLS TO BE CONCRETE MASONRY UNLESS OTHERWISE NOTED. 3. ALL ROOFING TO BE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. 4. ALL ELECTRICAL AND PLUMBING TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND NATIONAL PLUMBING CODE (NPC). 5. ALL MECHANICAL SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL ENGINEERING CODE (IMEC). 6. ALL FOUNDATIONS TO BE CONCRETE ON COMPACTED FILL UNLESS OTHERWISE NOTED. 7. ALL FINISHES TO BE AS NOTED ON DRAWINGS. 8. ALL MATERIALS TO BE AS NOTED ON DRAWINGS. 9. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL BUILDING CODE (IBC). 10. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL MECHANICAL ENGINEERING CODE (IMEC). 11. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL PLUMBING CODE (IPC). 12. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL ELECTRICAL CODE (NEC). 13. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL FIRE CODE (IFC). 14. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL SAFETY CODE (ISC). 15. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL HEALTH CARE CODE (IHCC). 16. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL ENVIRONMENTAL CODE (IEC). 17. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL TRANSPORTATION CODE (ITC). 18. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL MARITIME CODE (IMC). 19. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL AERIAL CODE (IAC). 20. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL SPACE CODE (ISC). 21. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL UNDERGROUND CODE (IUC). 22. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL OVERGROUND CODE (IOGC). 23. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL TRENCHING CODE (ITC). 24. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL ERECTION CODE (IEC). 25. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL DEMOLITION CODE (IDC). 26. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL CONSTRUCTION CODE (ICC). 27. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL MAINTENANCE CODE (IMC). 28. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL REPAIR CODE (IRC). 29. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL REPLACEMENT CODE (IRPC). 30. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL RECONSTRUCTION CODE (IRCC). 31. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL RENOVATION CODE (IRC). 32. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL RESTORATION CODE (IRC). 33. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL PRESERVATION CODE (IPC). 34. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL PROTECTION CODE (IPC). 35. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL SECURITY CODE (ISC). 36. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL DEFENSE CODE (IDC). 37. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL EMERGENCY CODE (IEC). 38. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL DISASTER CODE (IDC). 39. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL RECOVERY CODE (IRC). 40. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL RECONSTRUCTION CODE (IRCC). 41. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL RENOVATION CODE (IRC). 42. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL RESTORATION CODE (IRC). 43. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL PRESERVATION CODE (IPC). 44. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL PROTECTION CODE (IPC). 45. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL SECURITY CODE (ISC). 46. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL DEFENSE CODE (IDC). 47. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL EMERGENCY CODE (IEC). 48. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL DISASTER CODE (IDC). 49. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL RECOVERY CODE (IRC). 50. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2024 INTERNATIONAL RECONSTRUCTION CODE (IRCC).



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 5/8" APA RATED SHEATHING W/ #10 TEKS WOOD TO METAL FASTNERS AT 6" o.c. @ PANEL EDGES & @ 12" o.c. @ INTERMEDIATE SUPPORTS.

CONC REINF LAP LENGTH
3000 PSI (ACI 318-14)

| 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" | 5'-4" | 2 - #5 | 2 - #5 |
| 5'-4" | 7'-4" | 7'-4" | 2 - #6 | 2 - #5 |
| 7'-4" | 10'-0" | 10'-0" | 2 - #6 | 2 - #6 |

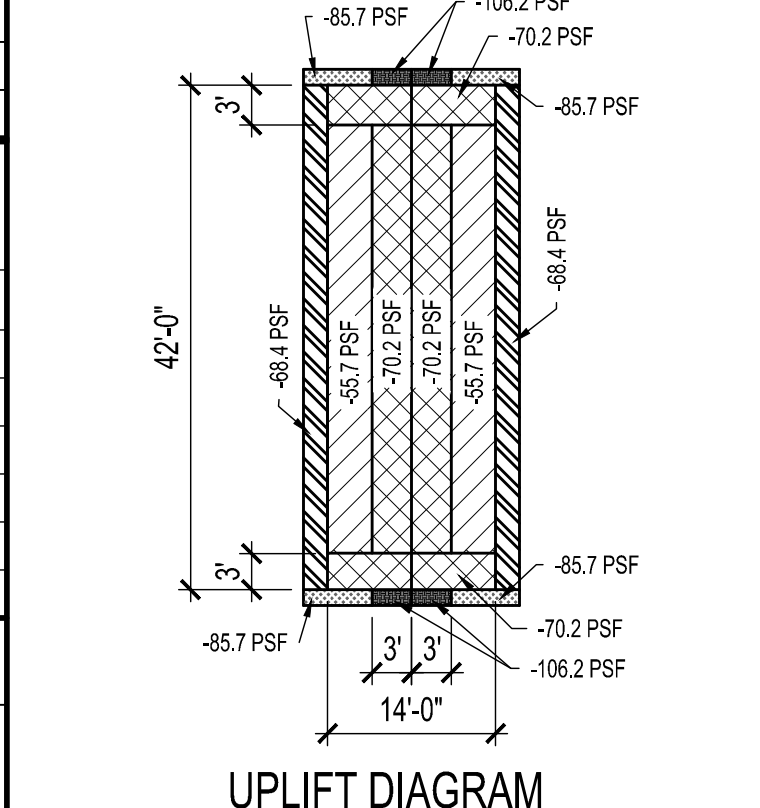
1. EXTEND BOND BEAM REINFORCING 24" OR 40 BAR DIAMETERS (WHICHEVER IS GREATER) BEYOND THE EXTENTS OF THE OPENING. VERTICAL REINFORCING AT THE SIDES OF THE OPENING SHALL BE CONTINUOUS THROUGH THE BOND BEAM. PROVIDE KNOCK OUTS IN THE BOTTOM OF THE BOND BEAM BLOCK AS REQUIRED TO ALLOW REINFORCING TO PASS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

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.

STRUCTURE NOTES

- DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BRNG PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION AND ENGINEER SHALL BE NOTIFIED IF ACTUAL SOIL BEARING PRESSURE IS LOWER THAN DESIGN VALUE.
- 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) = 143 MPH
 OCCUPANCY CATEGORY = III
 WIND IMPORTANCE FACTOR (Iw) = 1.0
 UPWIND EXPOSURE CATEGORY = B
 INTERNAL PRESSURE COEFF. (GCp) = ±0.18
 A = 3.0 FT.
 COMPONENTS & CLADDING NET DESIGN PRESSURES (Pgross PER ASCE 7-16) (LOADS ARE UNREDUCED AND UNFACTORED)
 ROOF COMPONENTS & CLADDING DESIGN PRESSURES: (BASED ON 20 SF AREA)
 16.5 PSF MAXIMUM DOWNWARD LOAD
 SEE ROOF UPLIFT DIAGRAM FOR UPLIFT LOADS
 WALL COMPONENTS & CLADDING DESIGN PRESSURES: (BASED ON 20 SF AREA)
 ZONE 4 = +28.8 PSF, -31.3 PSF
 ZONE 5 = +28.8 PSF, -37.6 PSF



5. SEISMIC DESIGN CRITERIA:
 OCCUPANCY CATEGORY = III
 SEISMIC IMPORTANCE FACTOR (Ie) = 1.25
 Ss = 0.3225 S1 = 0.1164
 SITE CLASS = D
 S05 = 0.332 S01 = 0.184
 BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-16 TABLE 12.2-1 OR 12.14-1):
 BEARING WALL SYSTEM - INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
 RESPONSE MODIFICATION FACTOR (R) = 3.5
 SEISMIC RESPONSE COEFF. (Cs) = 0.1184
 SEISMIC DESIGN CATEGORY = C
 DESIGN BASE SHEAR = 9.0 K
 ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

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/ #4s @ 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 1/2 THE OVERALL THICKNESS OF SLAB.
 - SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
 - MIN SLAB THICKNESS OF 2 1/2" MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.

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REGISTERED PROFESSIONAL ENGINEER
 No. 27855
 RALPH H. BOSWELL
 2/7/2024

WASTEWATER TREATMENT PLANT EXPANSION FOR THE CITY OF RINCON EFFINGHAM COUNTY GA

| NO. | DATE | BY | DESCRIPTION |
|-----|------------|----|------------------|
| 1 | 2/7/2024 | RF | ISSUE FOR REVIEW |
| 2 | 02/12/2024 | RF | ISSUE FOR REVIEW |

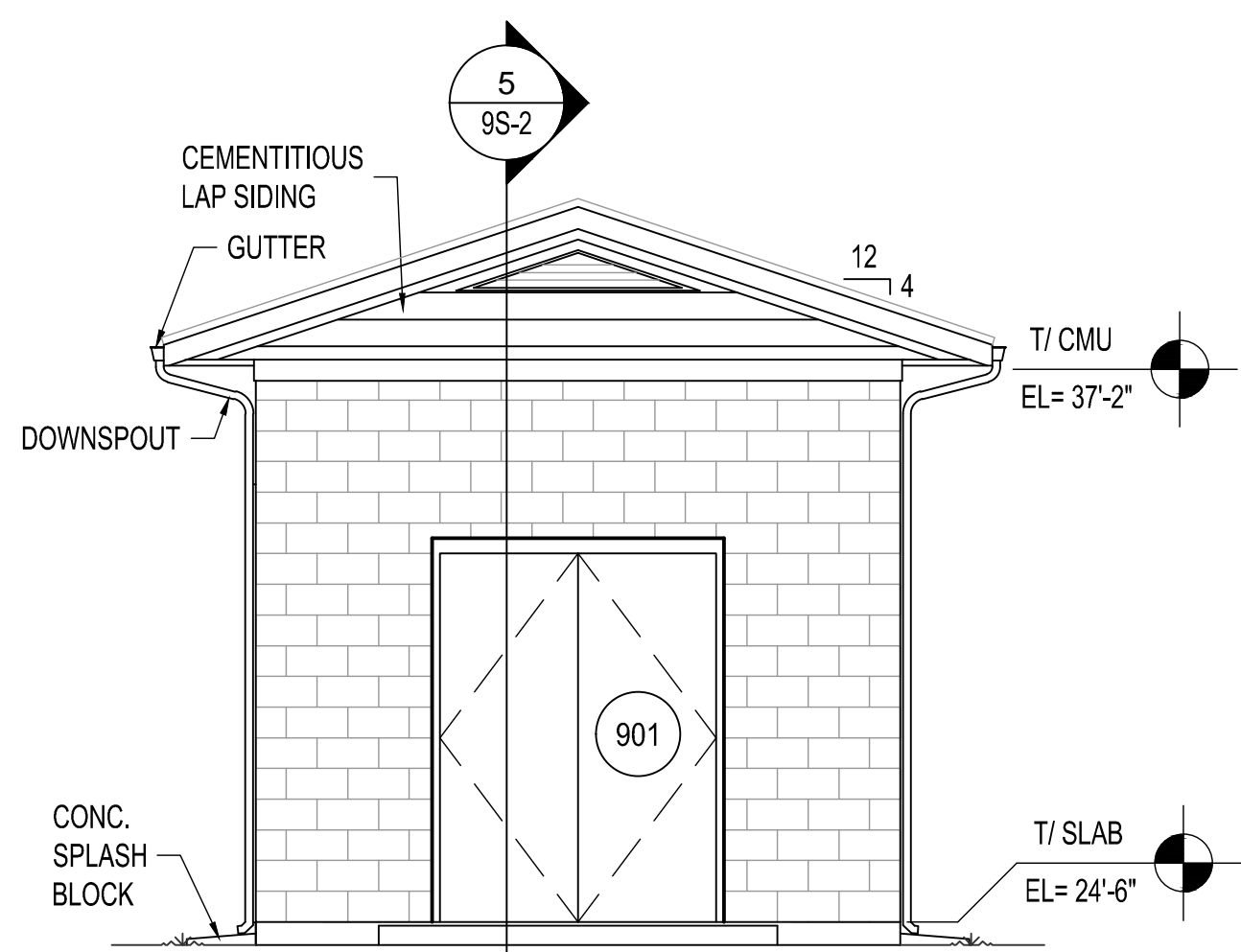
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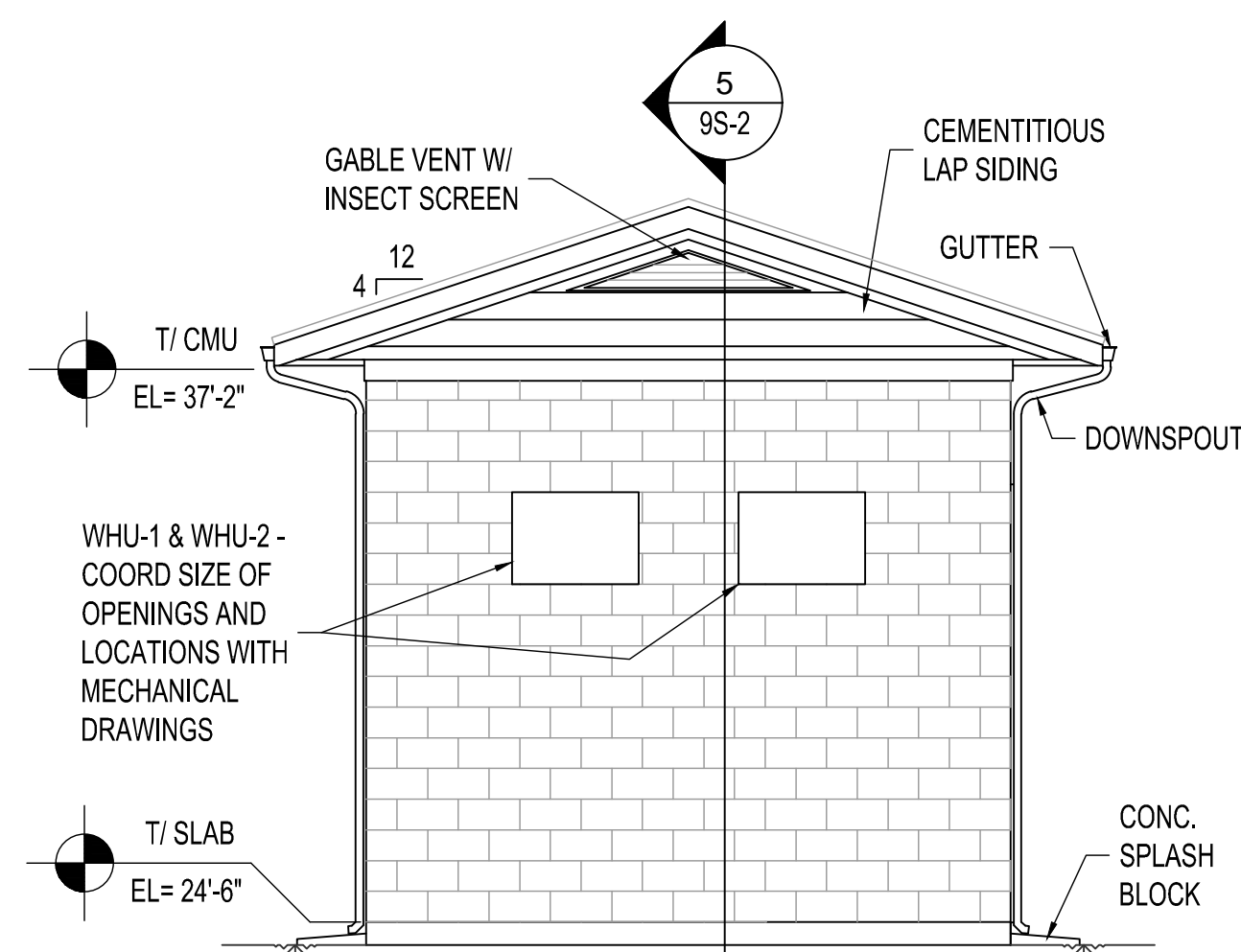
MOTOR CONTROL CENTER

NOTES AND PLANS

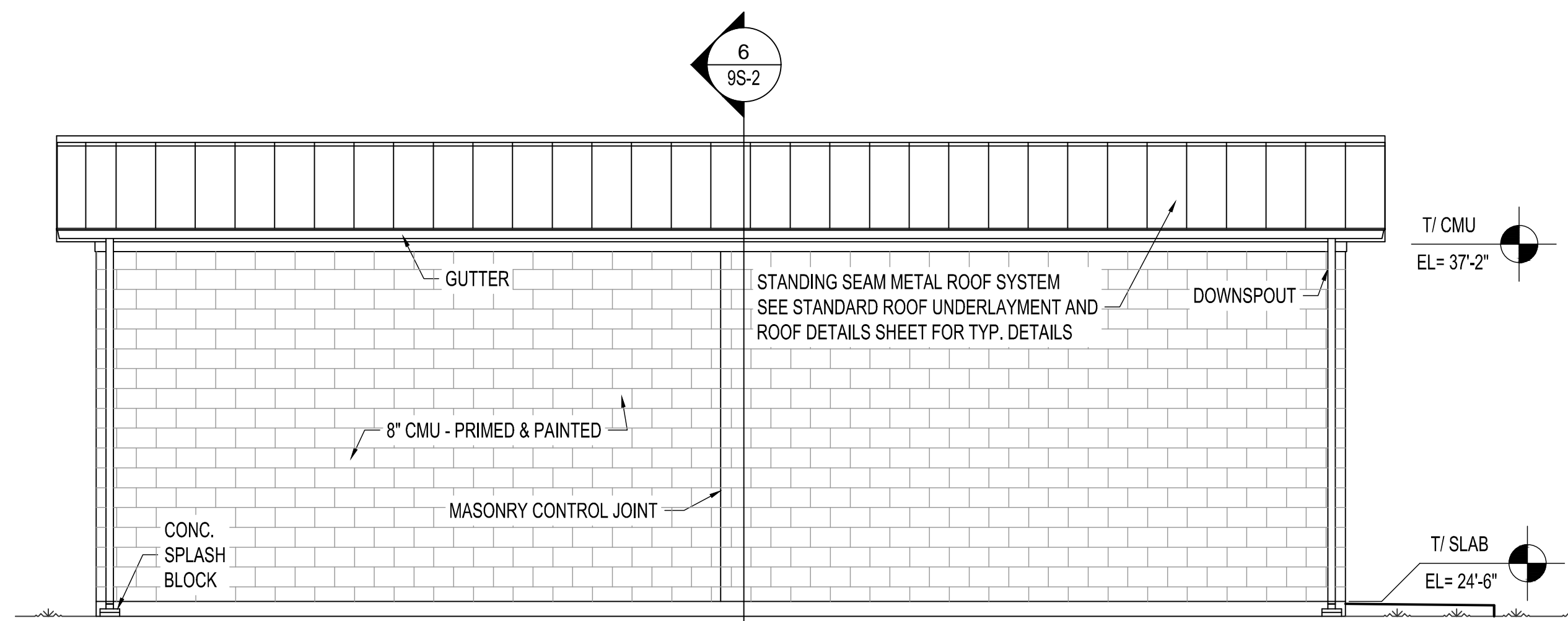
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SHEET 1 OF 07



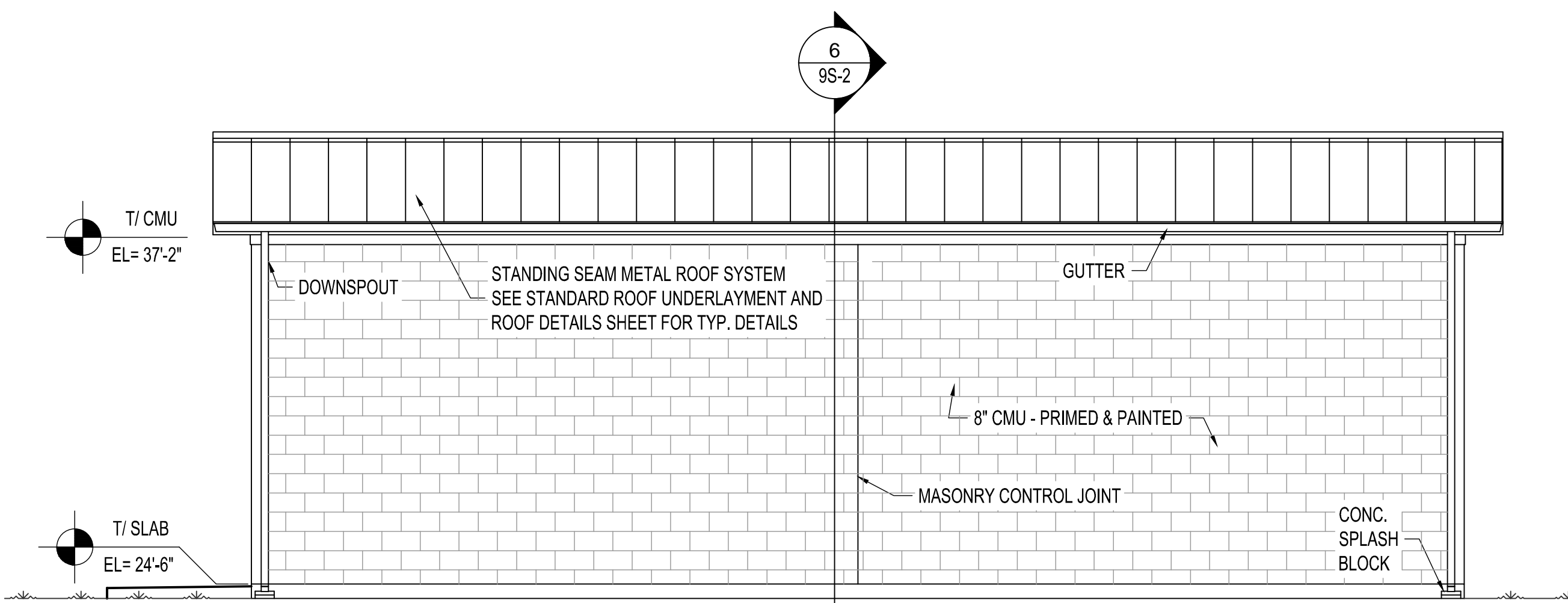
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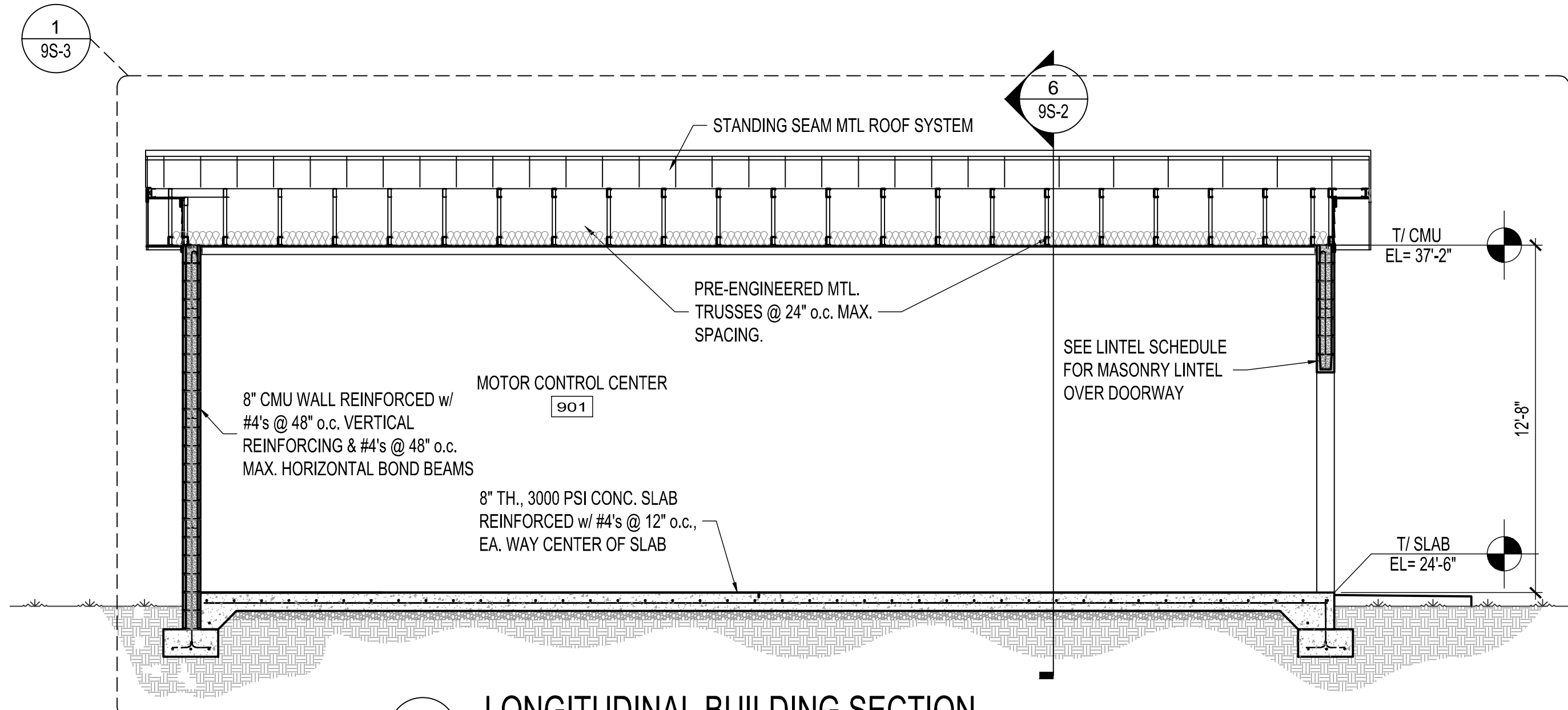
2 REAR ELEVATION
1/4"=1'-0"



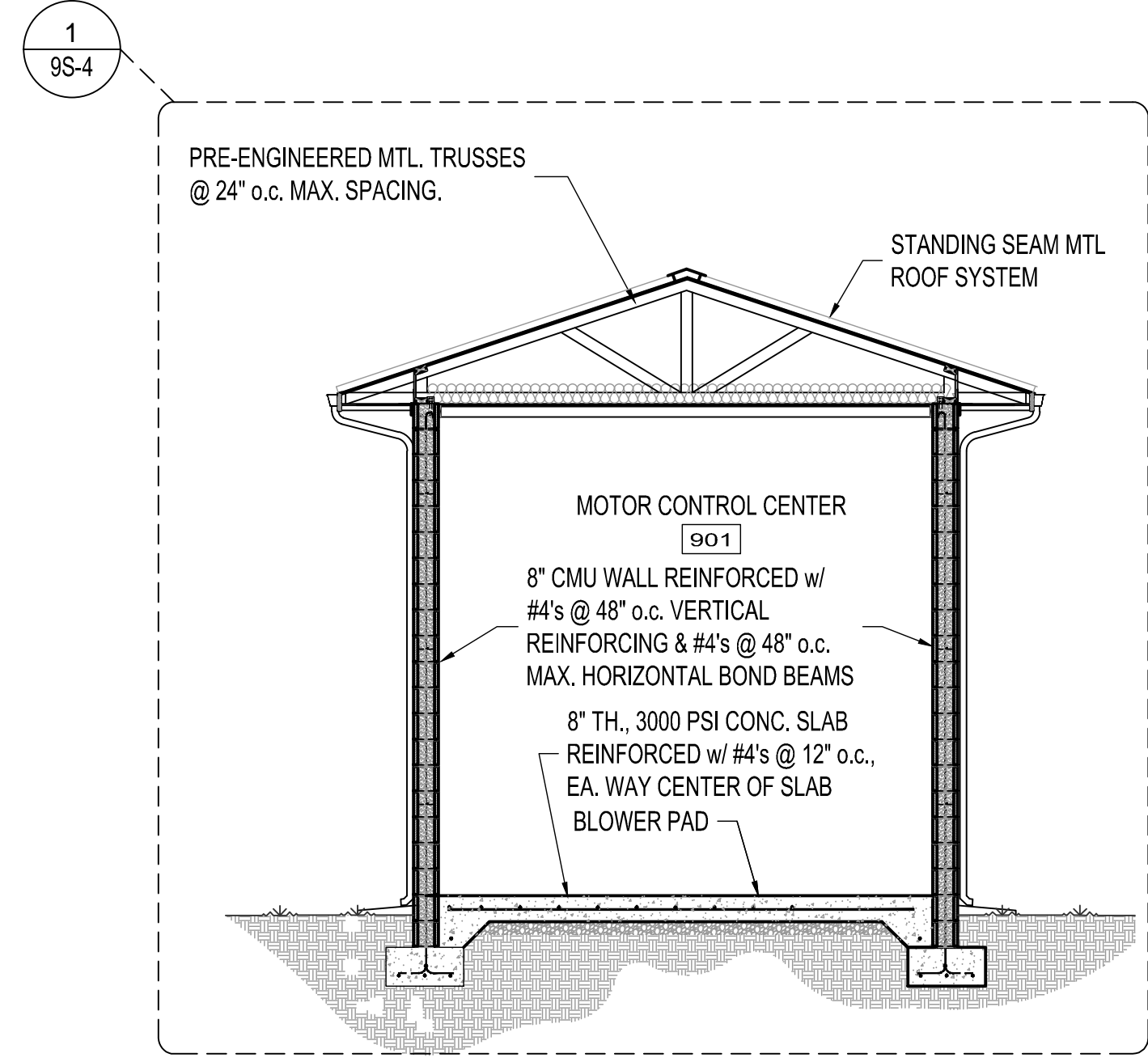
3 LEFT SIDE ELEVATION
1/4"=1'-0"



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

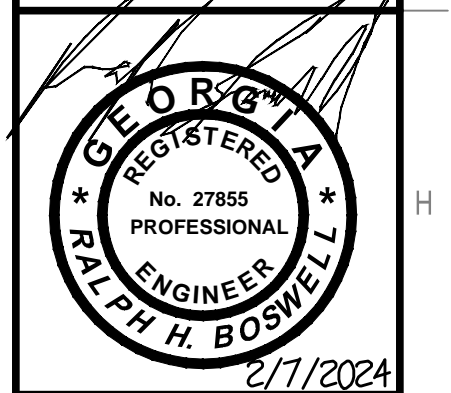


5 LONGITUDINAL BUILDING SECTION
1/4"=1'-0"



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

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WASTEWATER TREATMENT PLANT
EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY, GA

| MARK | DATE | BY | DESCRIPTION |
|------|------------|----|--------------------------------|
| 1 | 2-7-2024 | RS | EPR SUBMITTAL ISSUE FOR REVIEW |
| 2 | 08-28-2024 | RS | |

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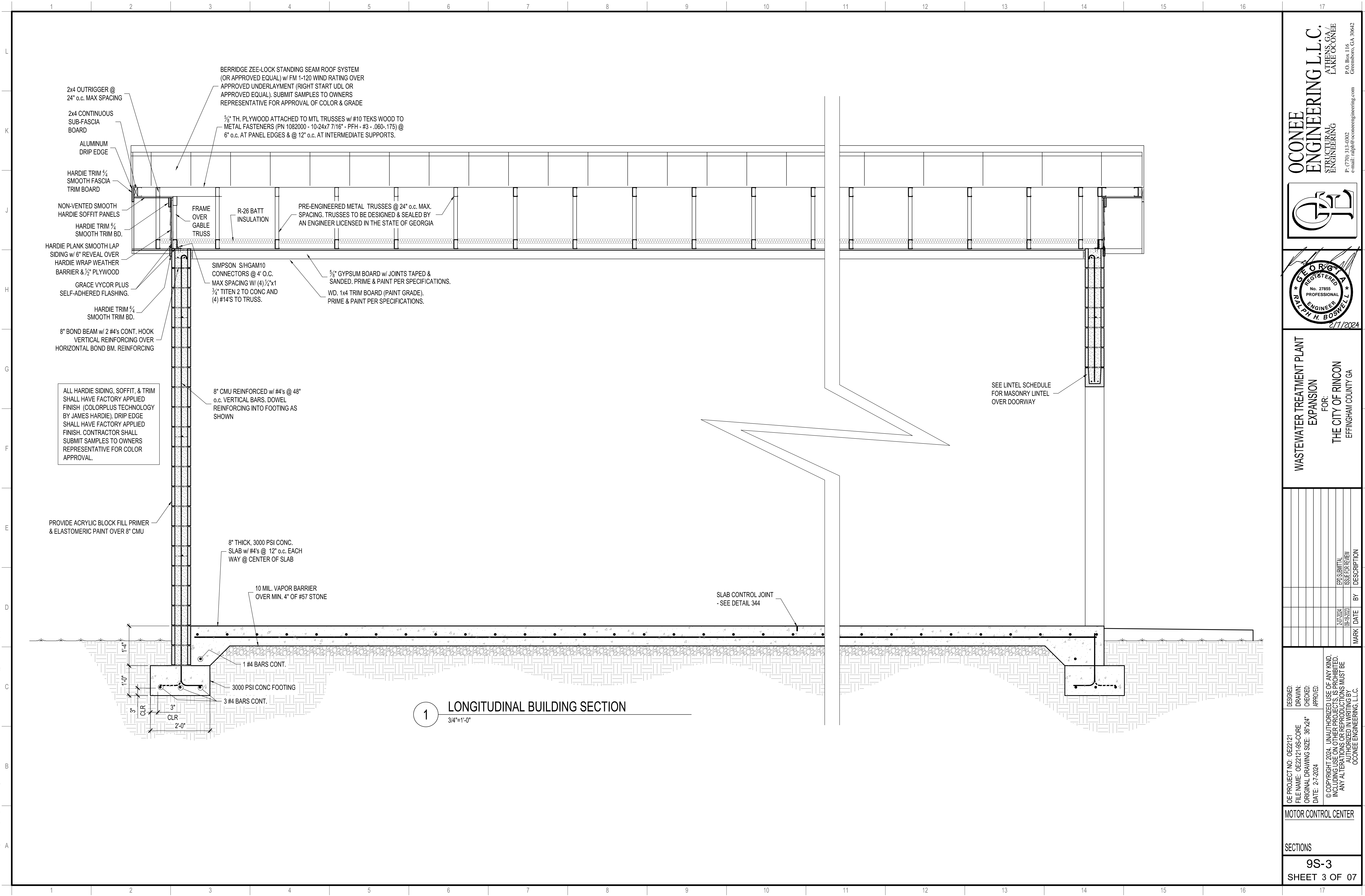
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MOTOR CONTROL CENTER

SECTIONS & ELEVATIONS


9S-2
SHEET 2 OF 07

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 1/25/2024 10:42:00 AM
 2/7/2024 10:42:00 AM

OCONEE ENGINEERING L.L.C.
 ATHENS, GA
 STRUCTURAL ENGINEERING
 P. (770) 313-0902
 e-mail: ralph@oconeengineering.com
 P.O. Box 116
 Greensboro, GA 30642



REGISTERED PROFESSIONAL ENGINEER
 No. 27855
 RALPH H. BOSWELL
 2/7/2024

WASTEWATER TREATMENT PLANT EXPANSION FOR THE CITY OF RINCON EFFINGHAM COUNTY GA

| MARK | DATE | BY | DESCRIPTION |
|------|------------|----|------------------|
| | 2-7-2024 | | EPI SUBMITTAL |
| | 02-12-2024 | | ISSUE FOR REVIEW |

DESIGNED: 022217
 DRAWN: 022217-SS-CORE
 ORIGINAL DRAWING SIZE: 36"x24"
 DATE: 2-7-2024

CHECKED:
 APPROVED:

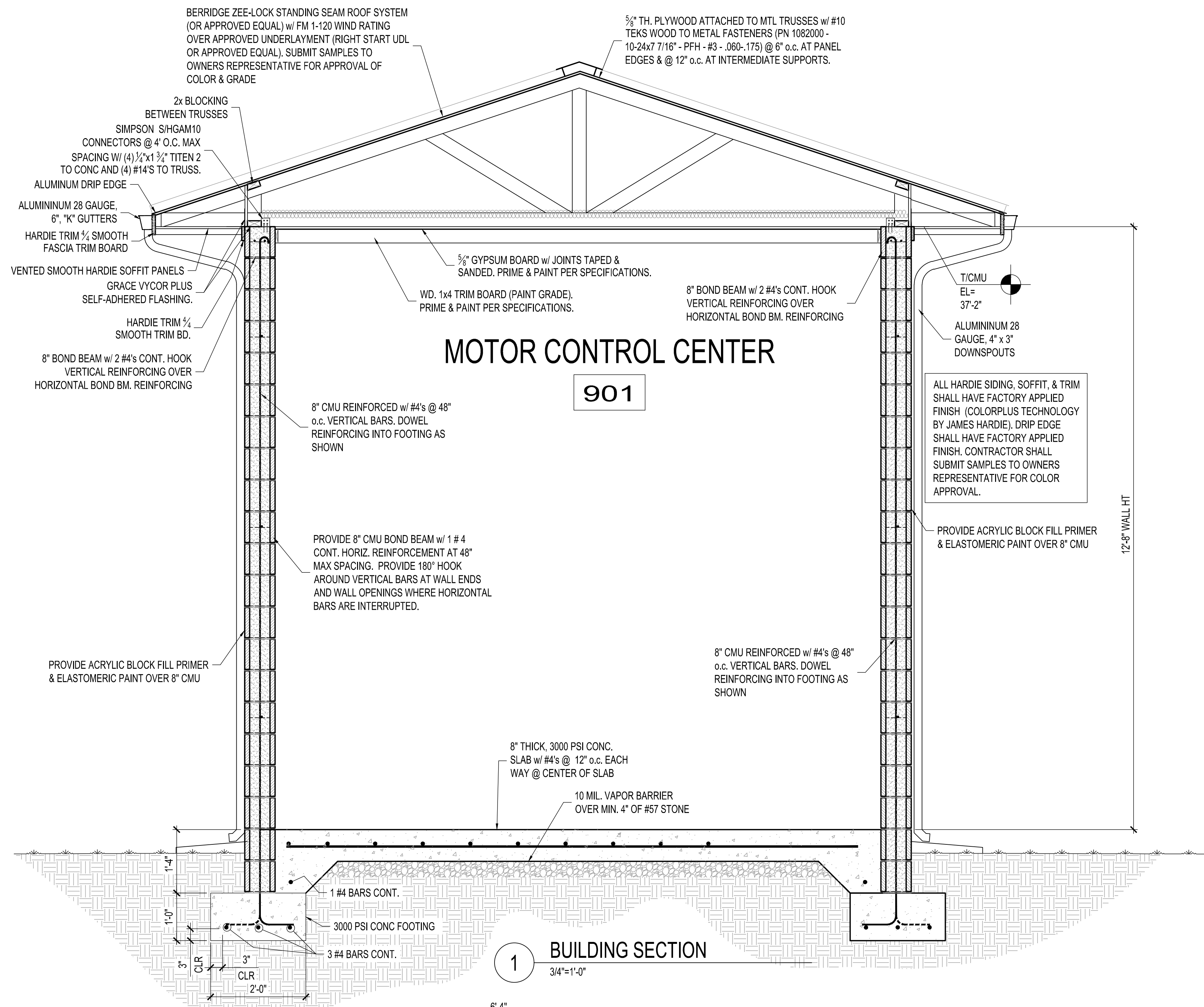
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MOTOR CONTROL CENTER

SECTIONS

9S-3

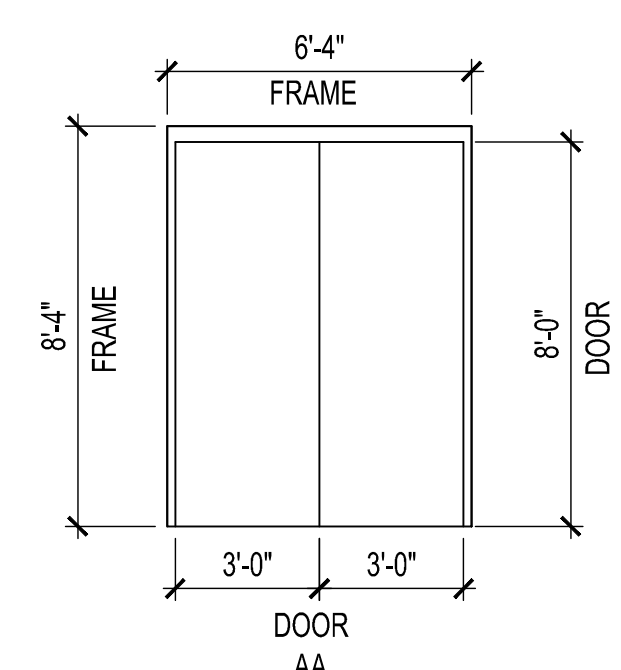
SHEET 3 OF 07



MOTOR CONTROL CENTER

901

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



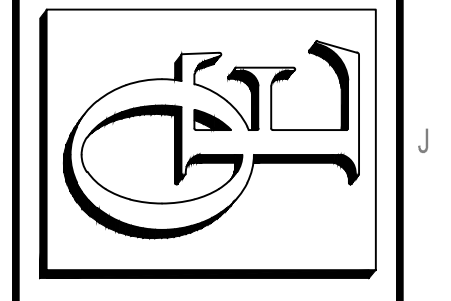
2 DOOR & FRAME ELEVATIONS
N.T.S.

| FINISH SCHEDULE | | | | |
|-----------------|-----------------|-------------|--------------------|---------|
| ROOM NUMBER | FLOORS | WALLS | CEILING | REMARKS |
| 901 | SEALED CONCRETE | PAINTED CMU | PAINTED GYP. BOARD | |

| DOOR SCHEDULE | | | | | | | | |
|---------------|-----------|--------|--------|------|----------|------------|--------------|-------------------|
| DR. # | WIDTH | HEIGHT | THK. | TYPE | MATERIAL | FIRE LABEL | FRAME MTL. | REMARKS |
| (901) | DBL 3'-0" | 8-0 | 1 3/4" | AA | FRP | | HOLLOW METAL | FINISH SEE SPECS. |

NOTE: DOOR #901 BY CHEM-PRUF DOOR CO. OR APPROVED EQUAL.

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REGISTERED PROFESSIONAL ENGINEER
RALPH H. BOSWELL
2/7/2024

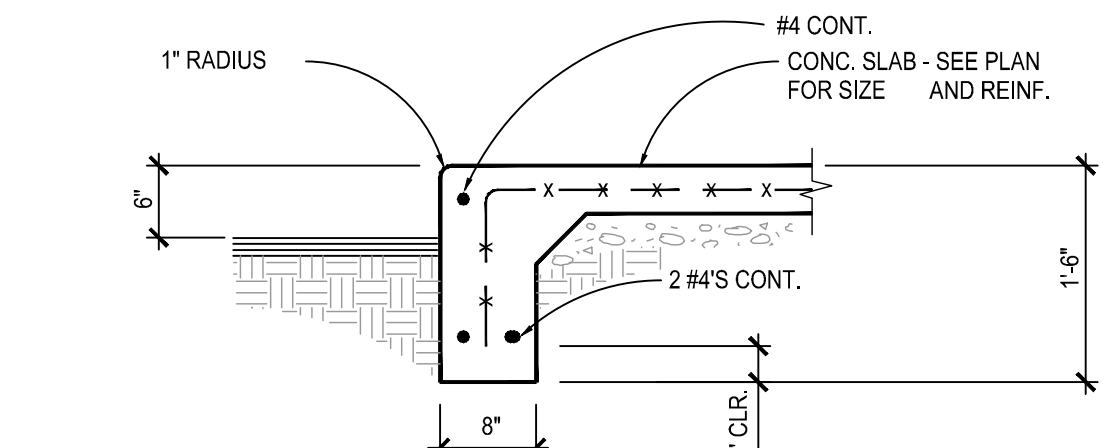
WASTEWATER TREATMENT PLANT EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY GA

| MARK | DATE | BY | DESCRIPTION |
|------|------------|----|------------------|
| | 2/7/2024 | | PRO SUBMITTAL |
| | 02/12/2024 | | ISSUE FOR REVIEW |

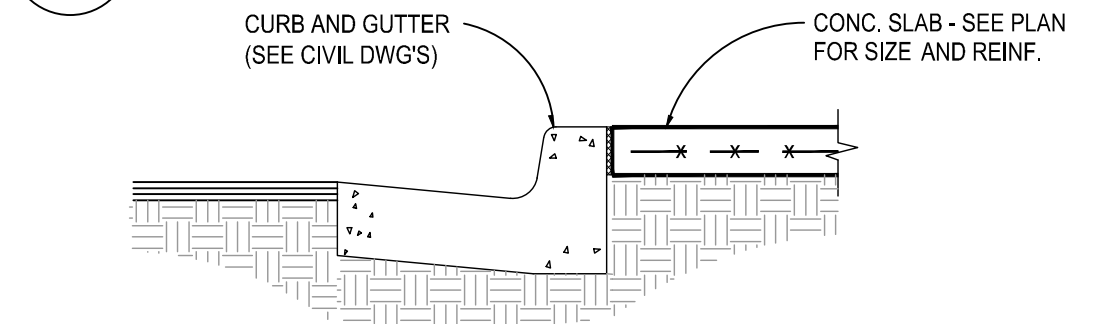
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FILE NAME: OZ2217-SS-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 2-7-2024
CHECKED:
APPROVED:
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MOTOR CONTROL CENTER
SECTIONS
9S-4
SHEET 4 OF 07

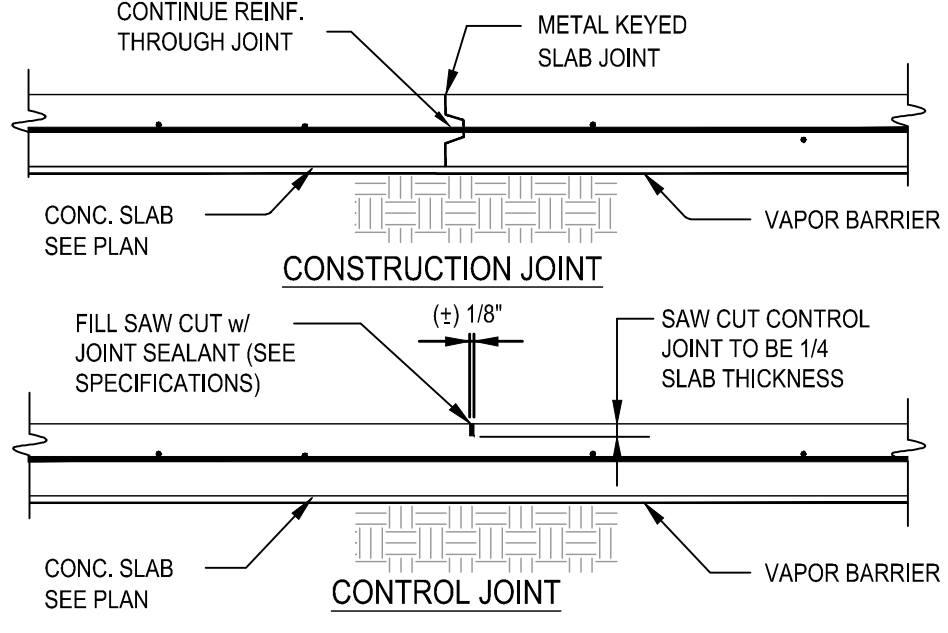
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341 TURN-DOWN AT SIDEWALK
N.T.S.

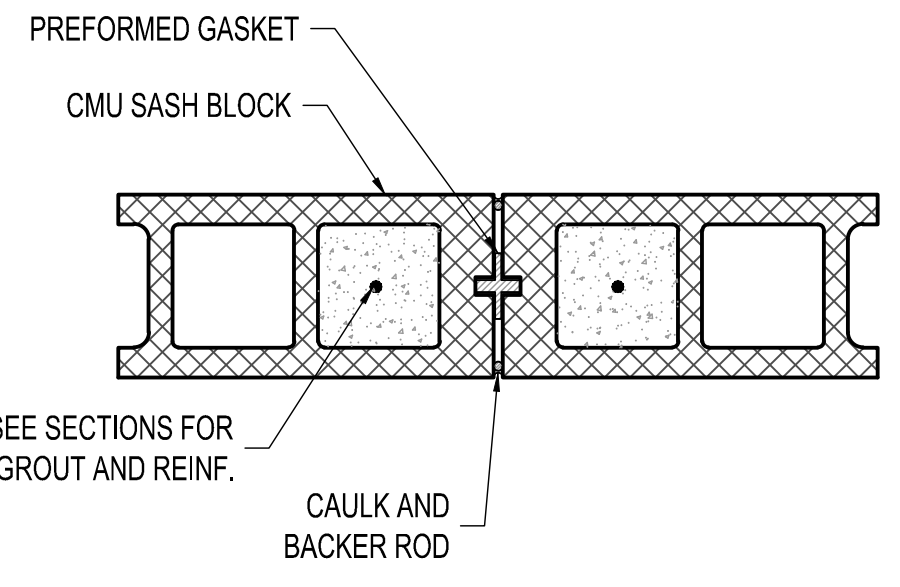


342 CURB AND GUTTER
N.T.S.

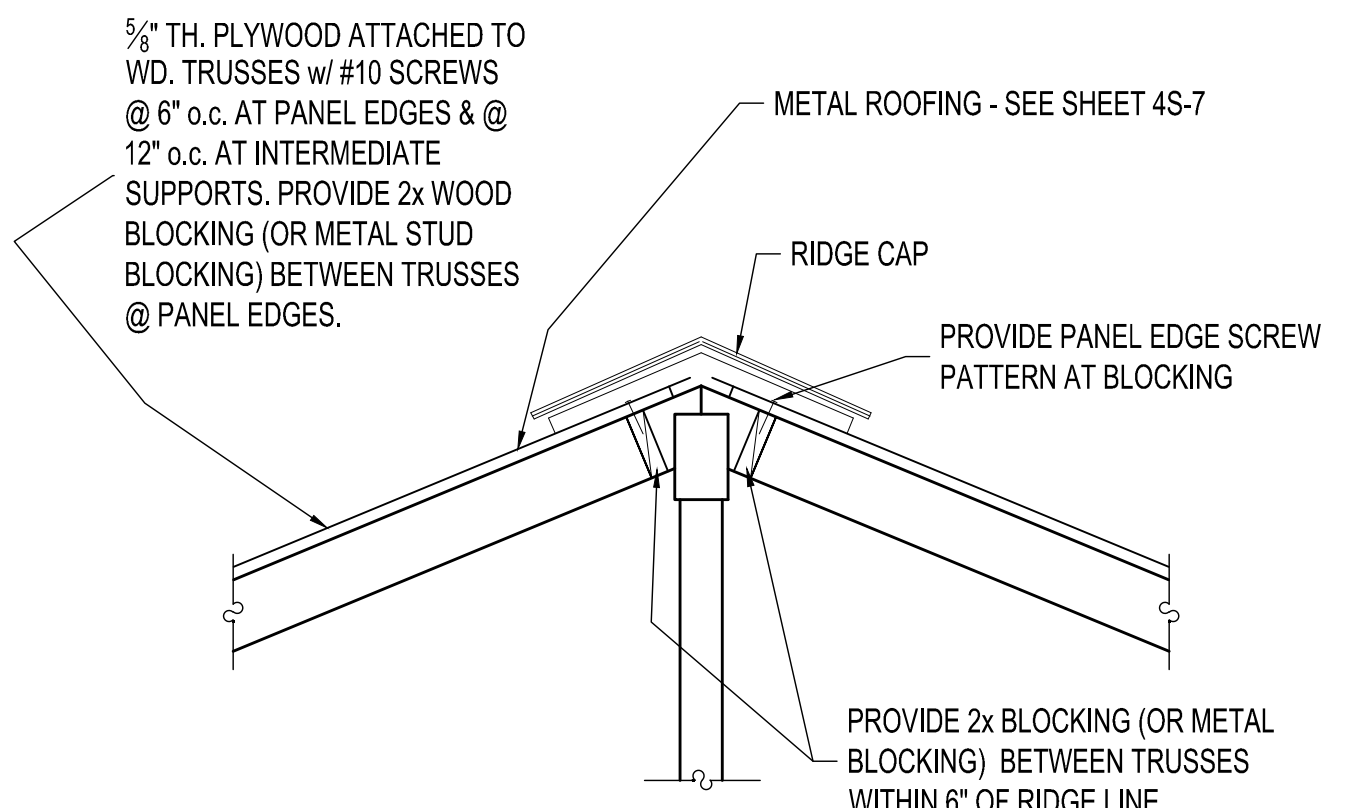


344 8" SLAB JOINT DETAILS
N.T.S.

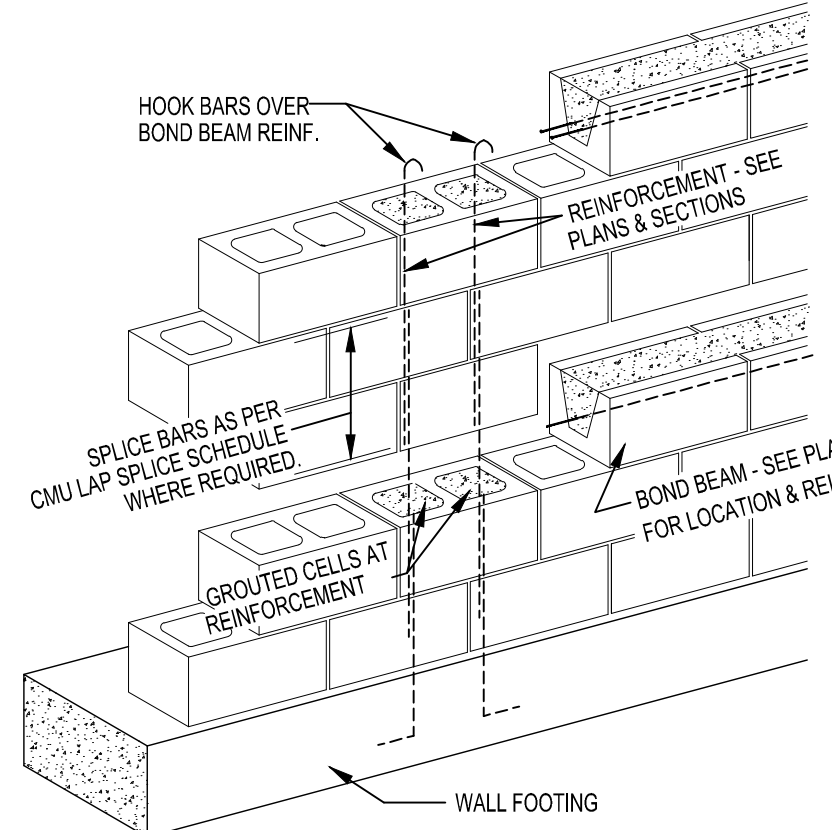
NOTES:
SAW CUT AS SOON AS SLAB CAN SUPPORT WEIGHT.
CONTROL JOINTS MAY BE REPLACED WITH CONSTRUCTION JOINTS.
CONTROL JOINTS SHALL BE SPACED AT NO MORE THAN 24'-0" O.C.
SLAB AREAS BOUNDED BY THESE JOINTS, SHALL HAVE THE LENGTH NO MORE THAN 2x THE WIDTH.



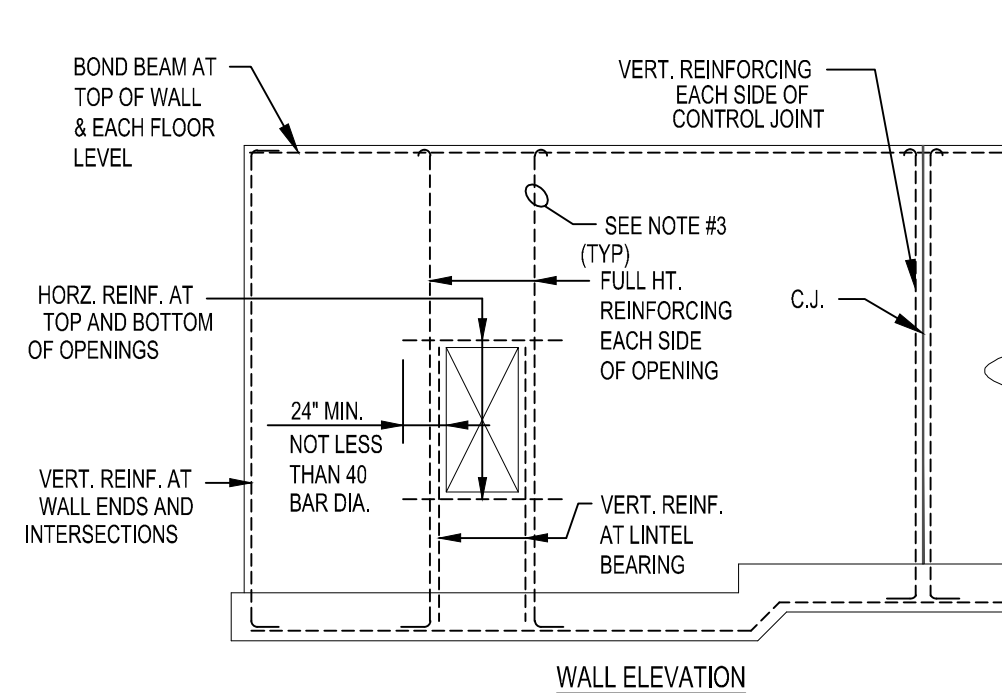
355 CMU CONTROL JOINT
N.T.S.



368 TRUSS RIDGE DETAIL
N.T.S.

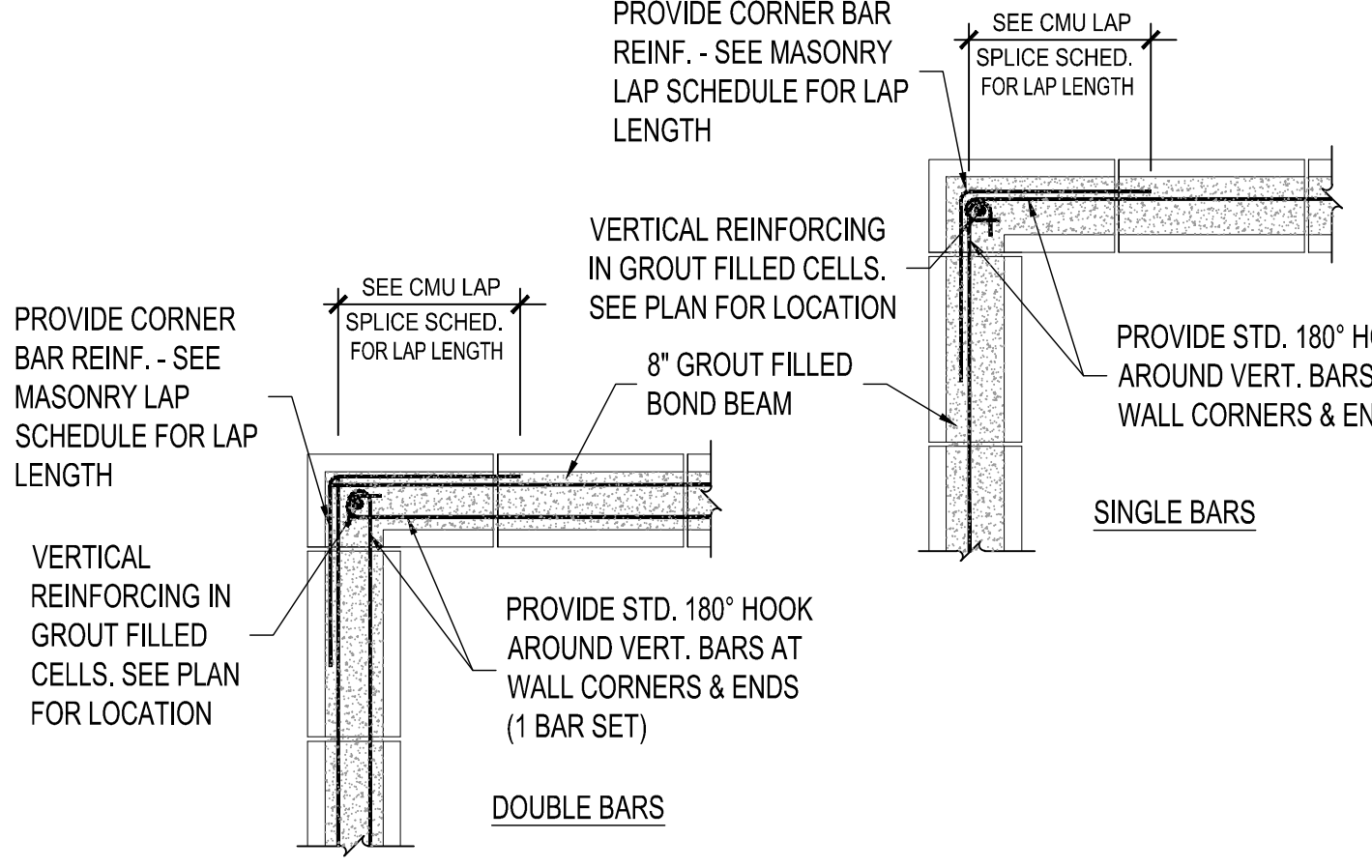


370 REINFORCED MASONRY CONSTRUCTION & REINFORCING
N.T.S.

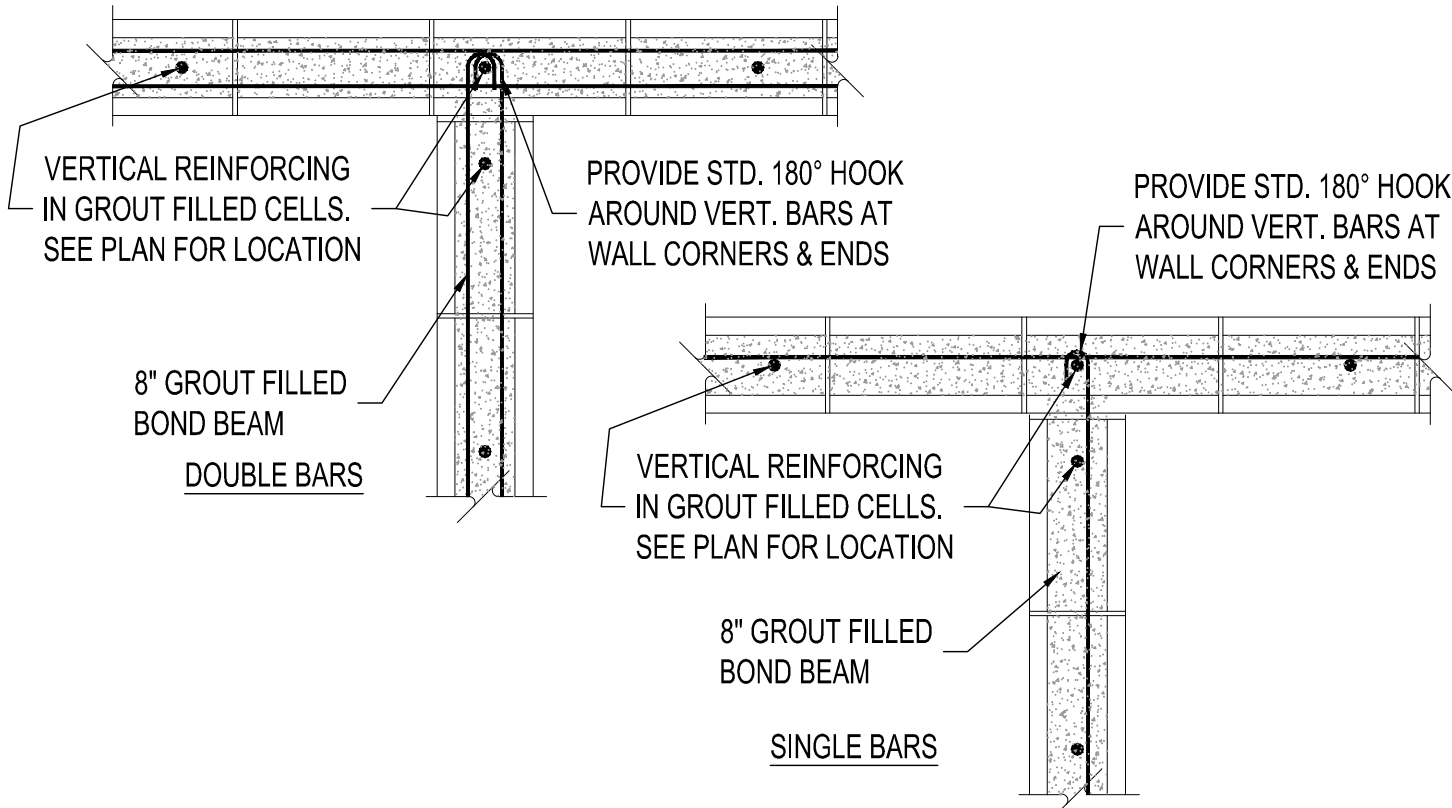


LOW LIFT GROUTING PROCEDURE:
1. CONSTRUCT WALL TO HEIGHT OF 4'-0". ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
2. INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.
3. LIGHTLY WET THE UNITS AND FILL CELLS TO 1 1/2" BELOW TOP COURSE.
4. DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING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

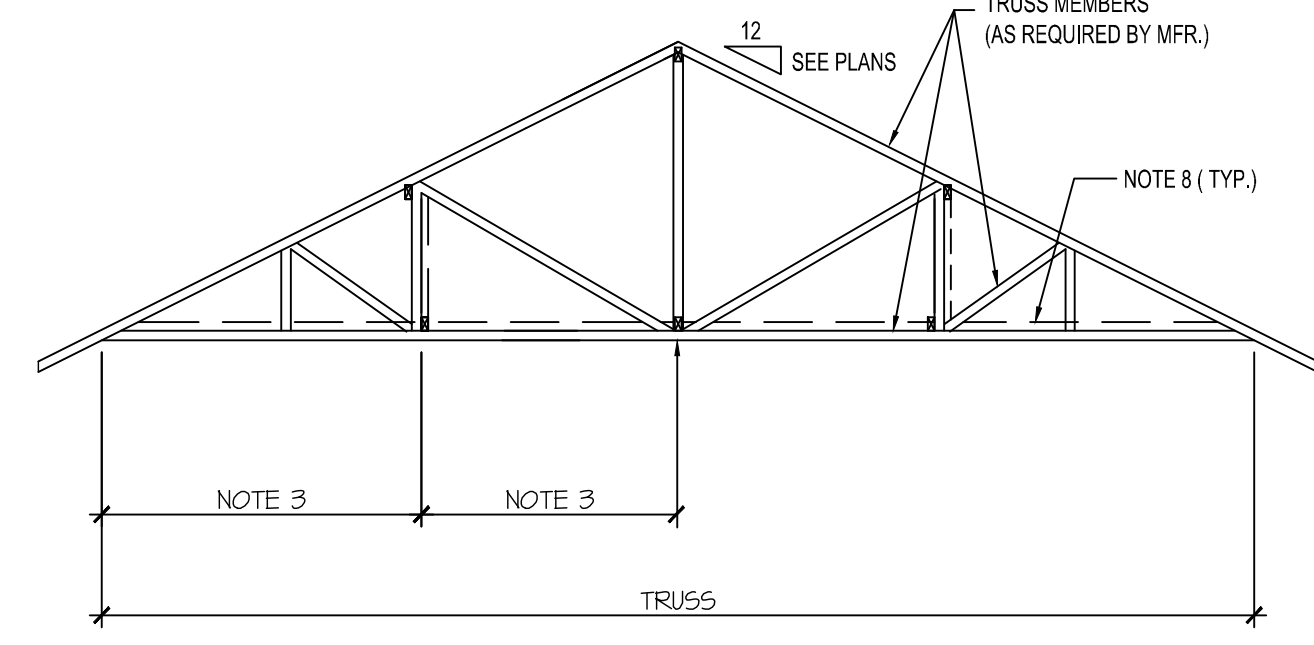
ELEVATION NOTES:
1. REINFORCING SHOWN SHALL BE MINIMUM #4 RE-BAR UNLESS SHOWN OTHERWISE ON PLANS AND DETAILS.
2. BOND BEAM REINFORCING SHOWN SHALL BE DISCONTINUED AT CONTROL JOINTS.
3. PROVIDE 4" x 4" OPENING IN BOTTOM OF BOND BEAM FOR PASSAGE OF VERTICAL REINFORCING IN CMU BOND BEAM. PROVIDE 1" HOLE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



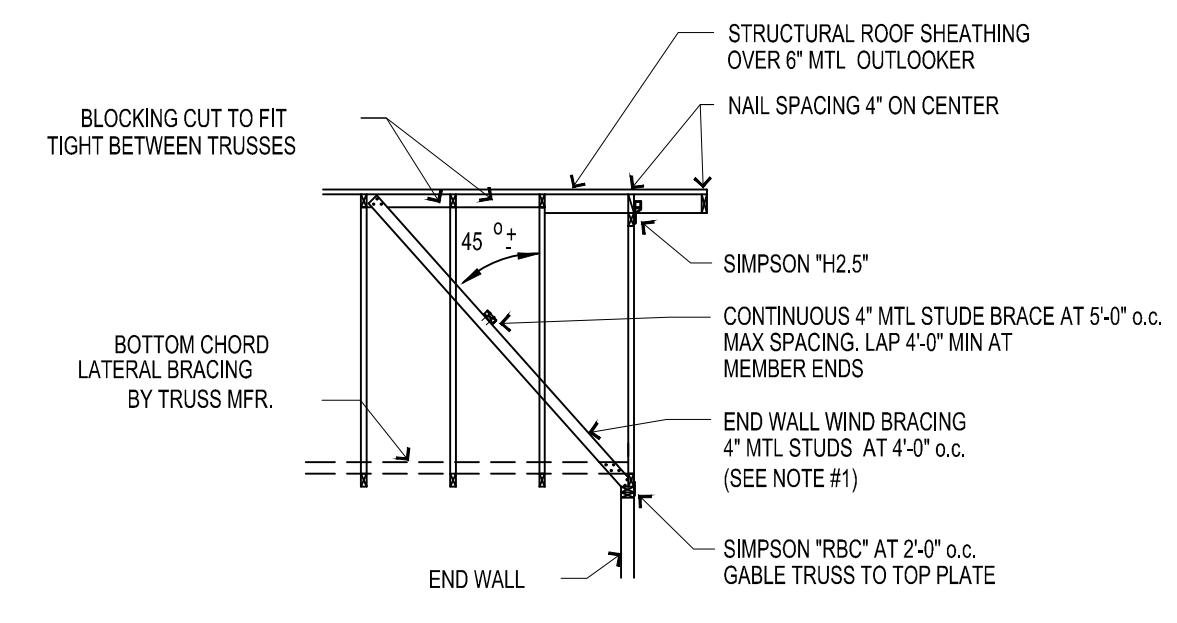
375 CMU CORNER WALL DETAIL
N.T.S.



376 CMU INTERSECTING WALL DETAIL
N.T.S.

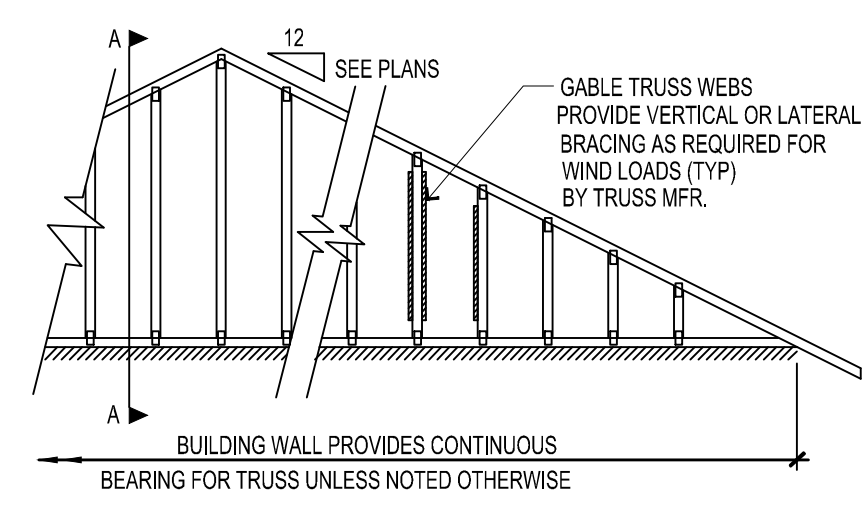


1. TRUSS AS SHOWN DOES NOT REPRESENT ACTUAL TRUSS DESIGN OR LAYOUT. SECTION SHOWN IS INTENDED FOR PERMANENT BRACING REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS FOR TRUSS CONFIGURATION.
2. TEMPORARY BRACING FOR ERECTION PURPOSES IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
3. MAXIMUM HORIZONTAL DISTANCE 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 APPROPRIATE SCREWS 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.

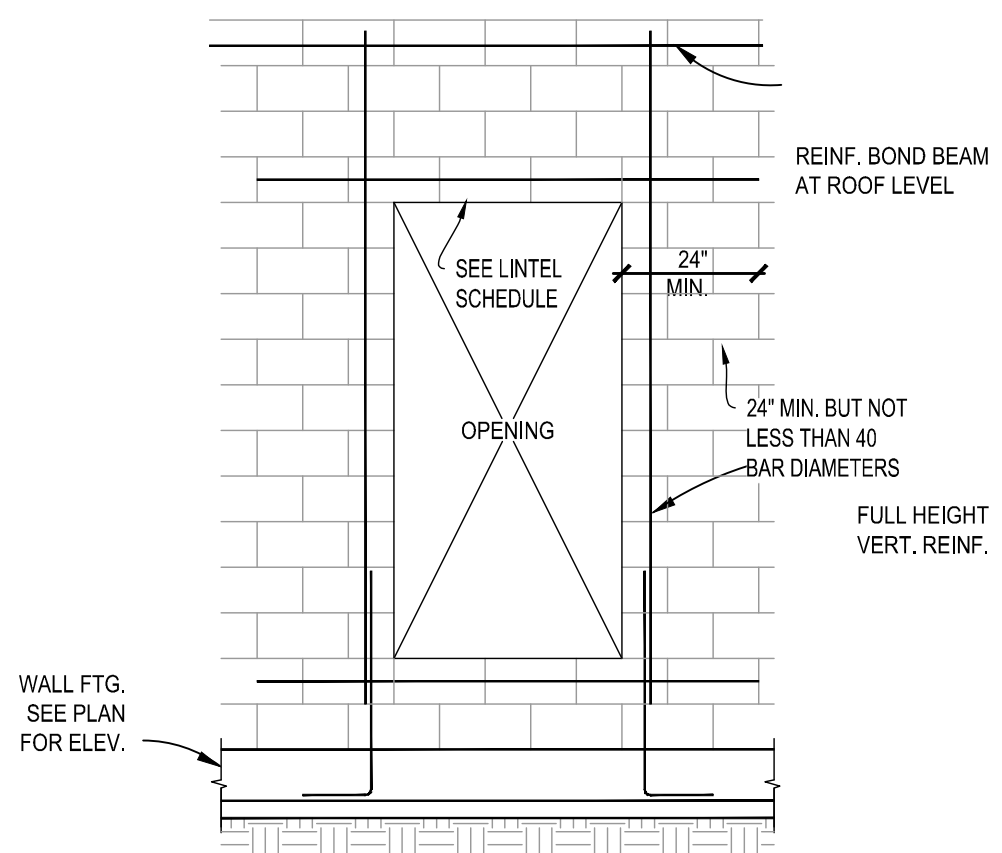


SECTION at GABLE END

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

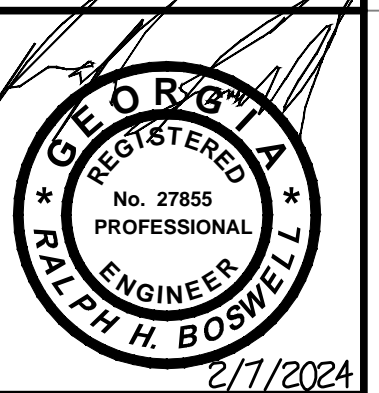
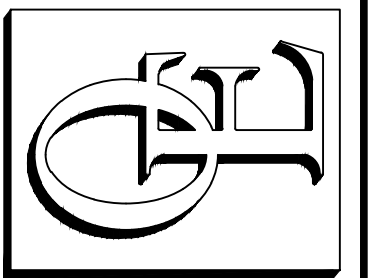


380 PERMANENT TRUSS BRACING DETAIL
N.T.S.



373b WALL REINF. @ OPENING
N.T.S.

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WASTEWATER TREATMENT PLANT
EXPANSION
FOR:
THE CITY OF RINCON
EFFINGHAM COUNTY GA

| MARK | DATE | BY | DESCRIPTION |
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| 2-7-2024 | 02/07/2024 | EPD/SUBMITTAL | ISSUE FOR REVIEW |

DESIGNED: 02/21/21
FILE NAME: 02/21/21-SS-CORE
DRAWN: 02/21/21-SS-CORE
ORIGINAL DRAWING SIZE: 36"x24"
CHECKED:
APPROVED:
DATE: 2-7-2024

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MOTOR CONTROL CENTER
DETAILS
9S-5
SHEET 5 OF 07

PLOTTED BY: RAJPH@OCONEEENGINEERING.COM
 PLOTTED DATE: 2/7/2024 11:16:14 AM
 PLOTTER: HP PLOTTER
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DOOR SCHEDULE

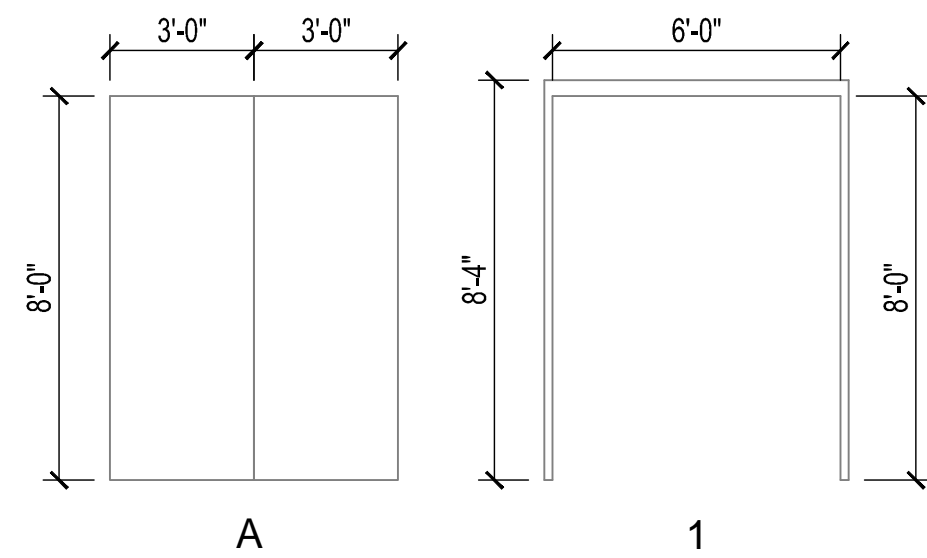
| DOOR NO. | DOOR LOCATION | DOORS | | | | | FRAME | | | | | | | LABEL | HDW. SET (NOTE 1) | REMARKS | DOOR NUMBER | |
|----------|-------------------|-------|-----------|--------|--------|------------|--------|---------|------|----------|--------|----------|----------|-------|-------------------|---------|-------------|------|
| | | TYPE | WIDTH | HEIGHT | THICK | MAT'L | FINISH | SIZE | TYPE | MATERIAL | FINISH | HEAD | JAMB | | | | | THR. |
| 901 | MOTOR CONTROL CTR | A | DBL 3'-0" | 8'-0" | 1-3/4" | FIBERGLASS | PAINT | 7'-1/4" | 1 | H.M. | PAINT | H-1/9S-6 | J-1/9S-6 | | 45 MIN. | 1 | | 901 |

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.

ROOM FINISH SCHEDULE

| KEY | FLOOR | BASE | WALLS | CEILING | NOTES | | |
|-----|----------------------|-----------------|-------|-----------------|-------------------|--------|--------|
| | | | | | | NO. | NAME |
| 901 | MOTOR CONTROL CENTER | SEALED CONCRETE | NONE | PAINTED CMU -P1 | PAINTED GYPSUM BD | HEIGHT | 12'-8" |

DOOR AND FRAME TYPES

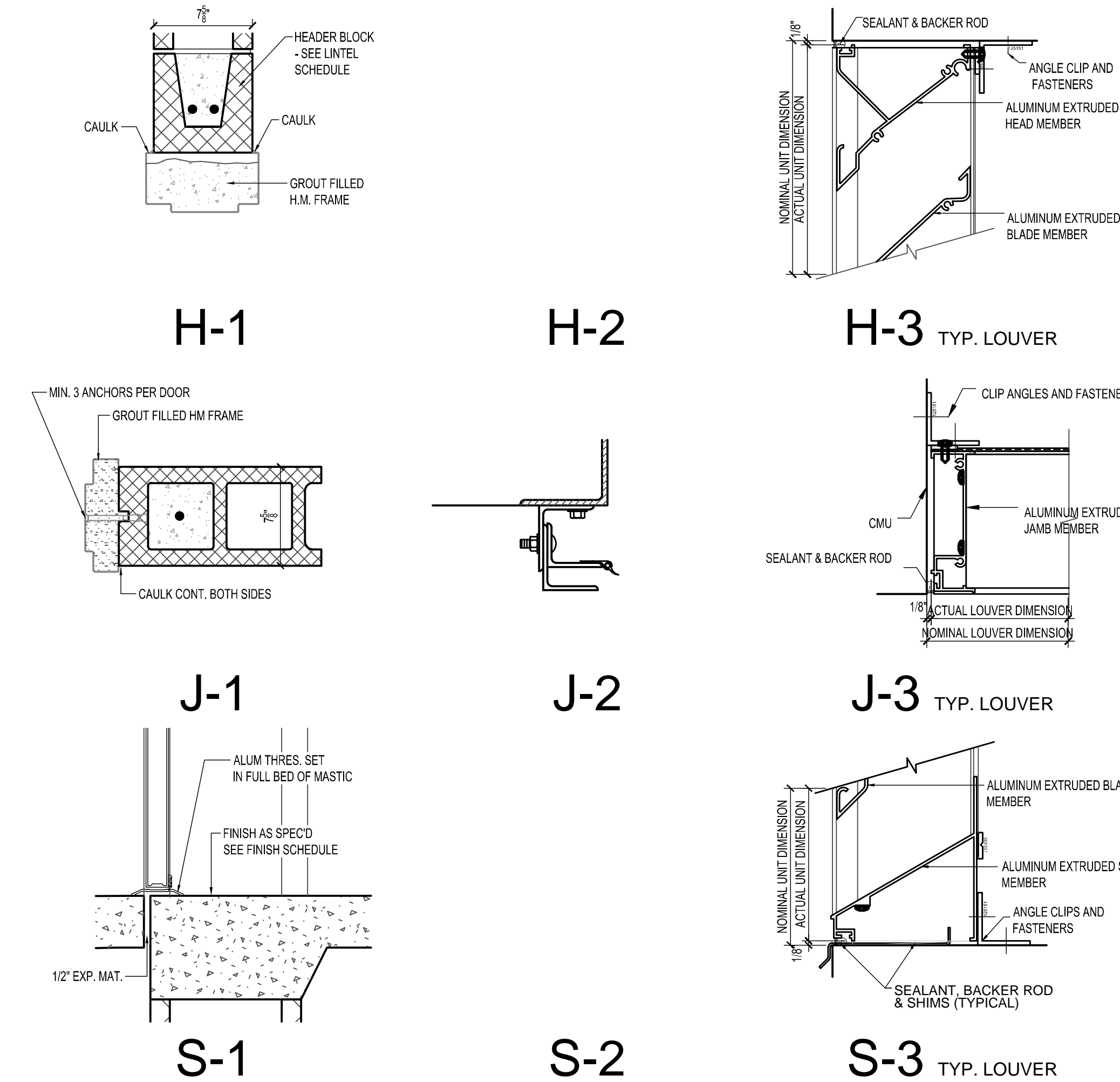


ROOM FINISH NOTES

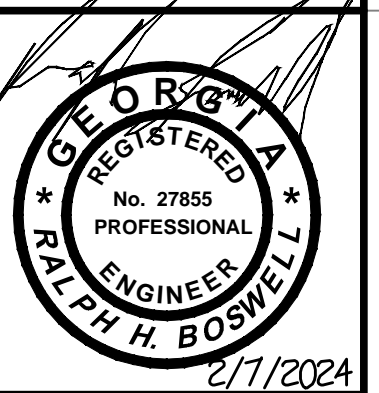
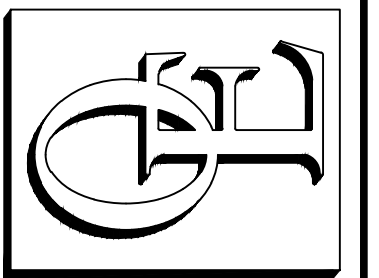
LIST OF FINISHES

| 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 |

DOOR AND LOUVER DETAILS



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 1705 W. STATE ST. SUITE 100
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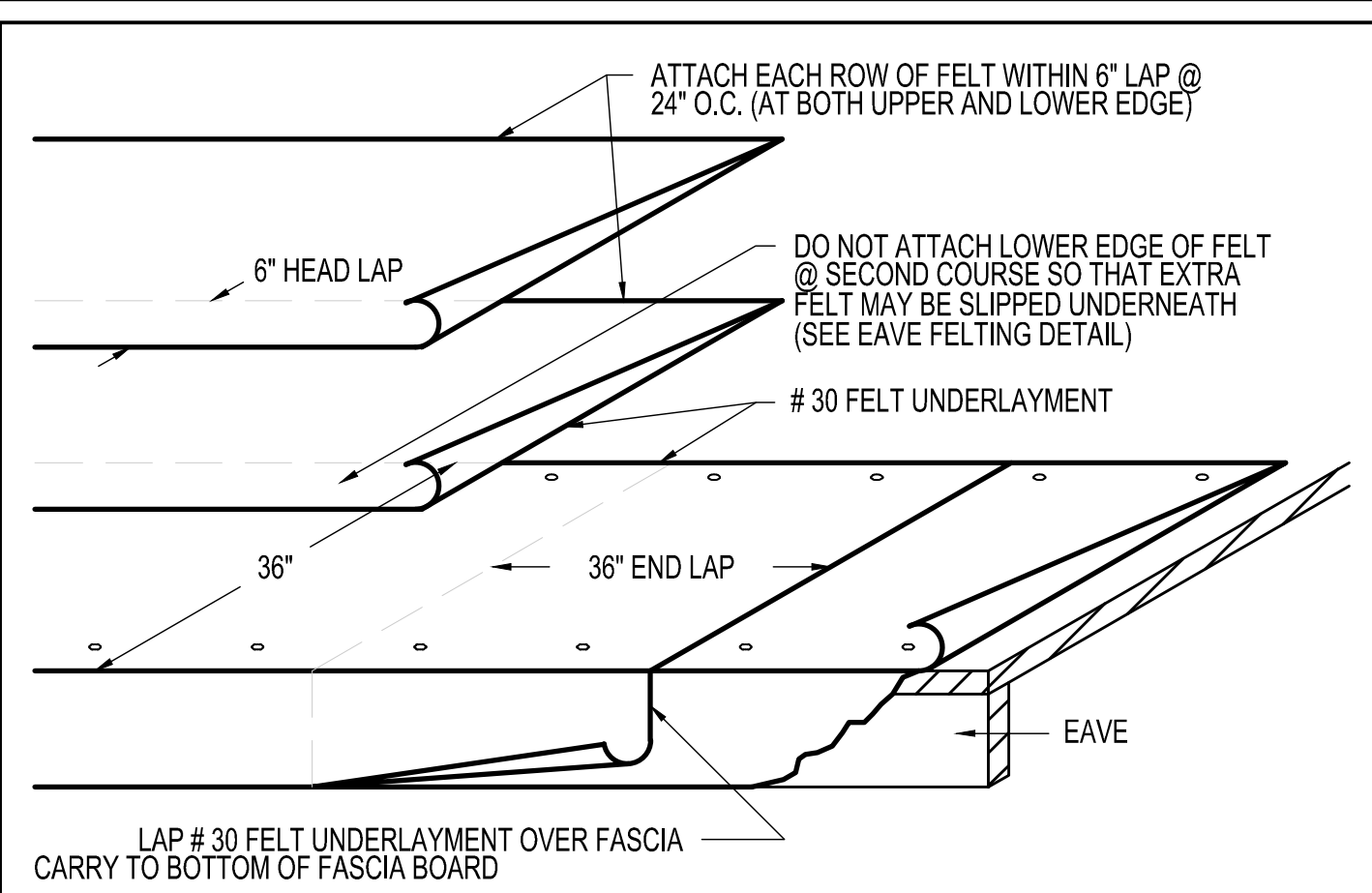
WASTEWATER TREATMENT PLANT
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 EFFINGHAM COUNTY GA

| MARK | DATE | BY | DESCRIPTION |
|------|------------|----|------------------|
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| | 02-12-2024 | | ISSUE FOR REVIEW |

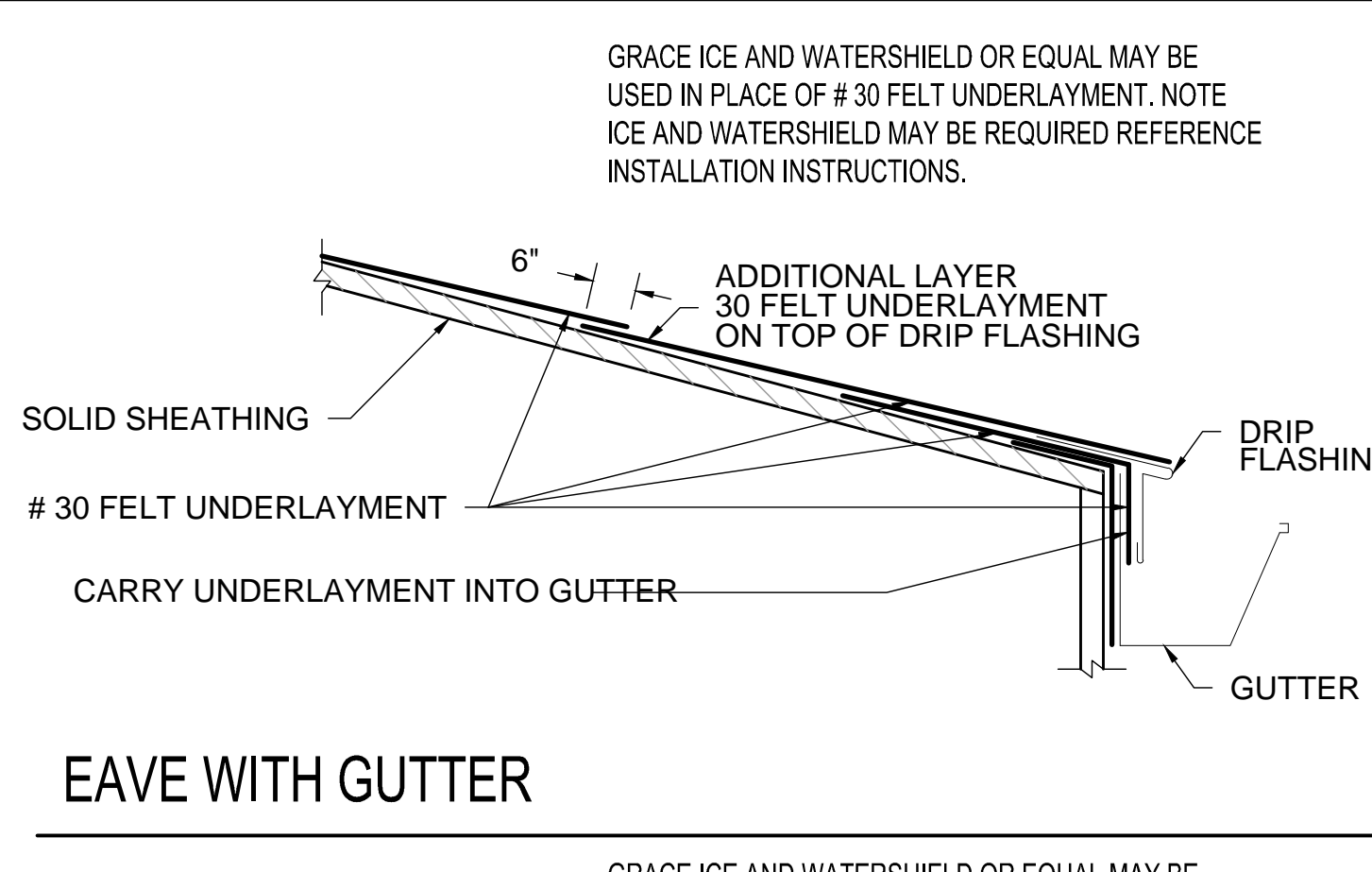
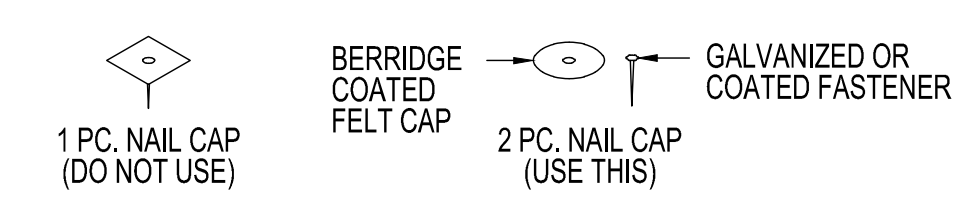
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MOTOR CONTROL CENTER
 DETAILS & SCHEDULES
 9S-6
 SHEET 6 OF 07

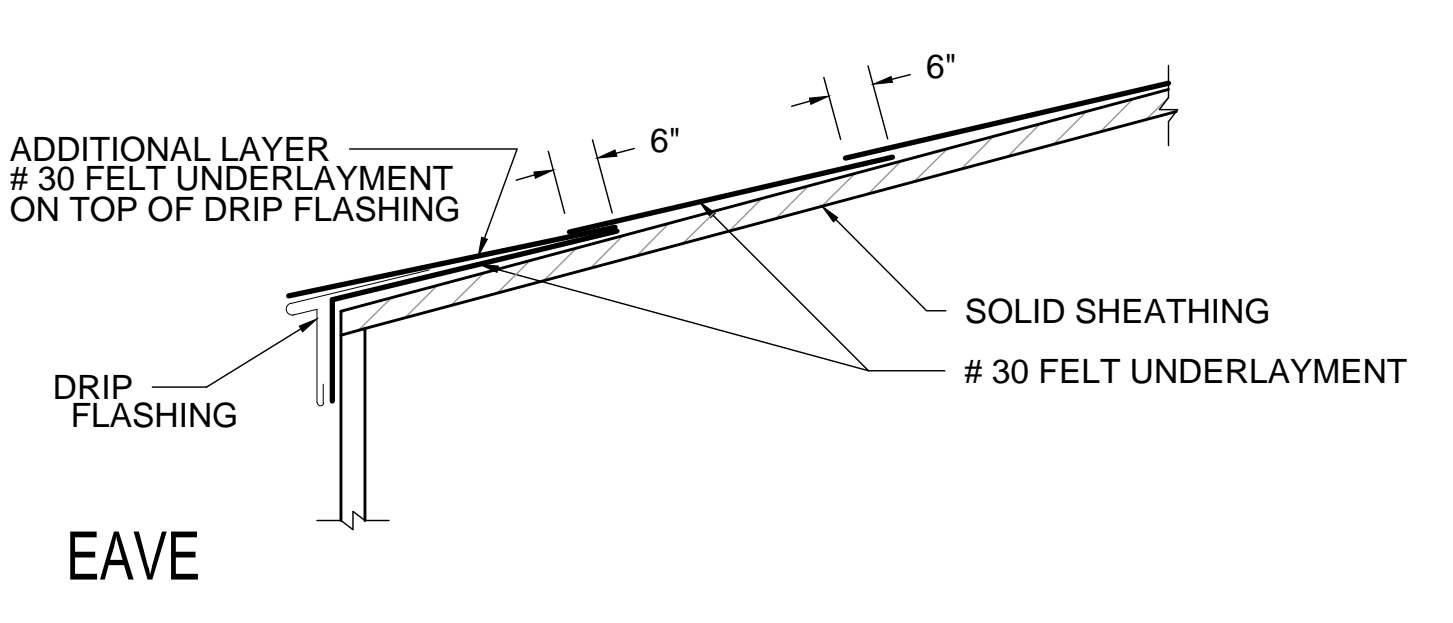
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 PLOT DATE: 02/21/24 11:18 AM
 PLOT BY: RALPH BOSWELL



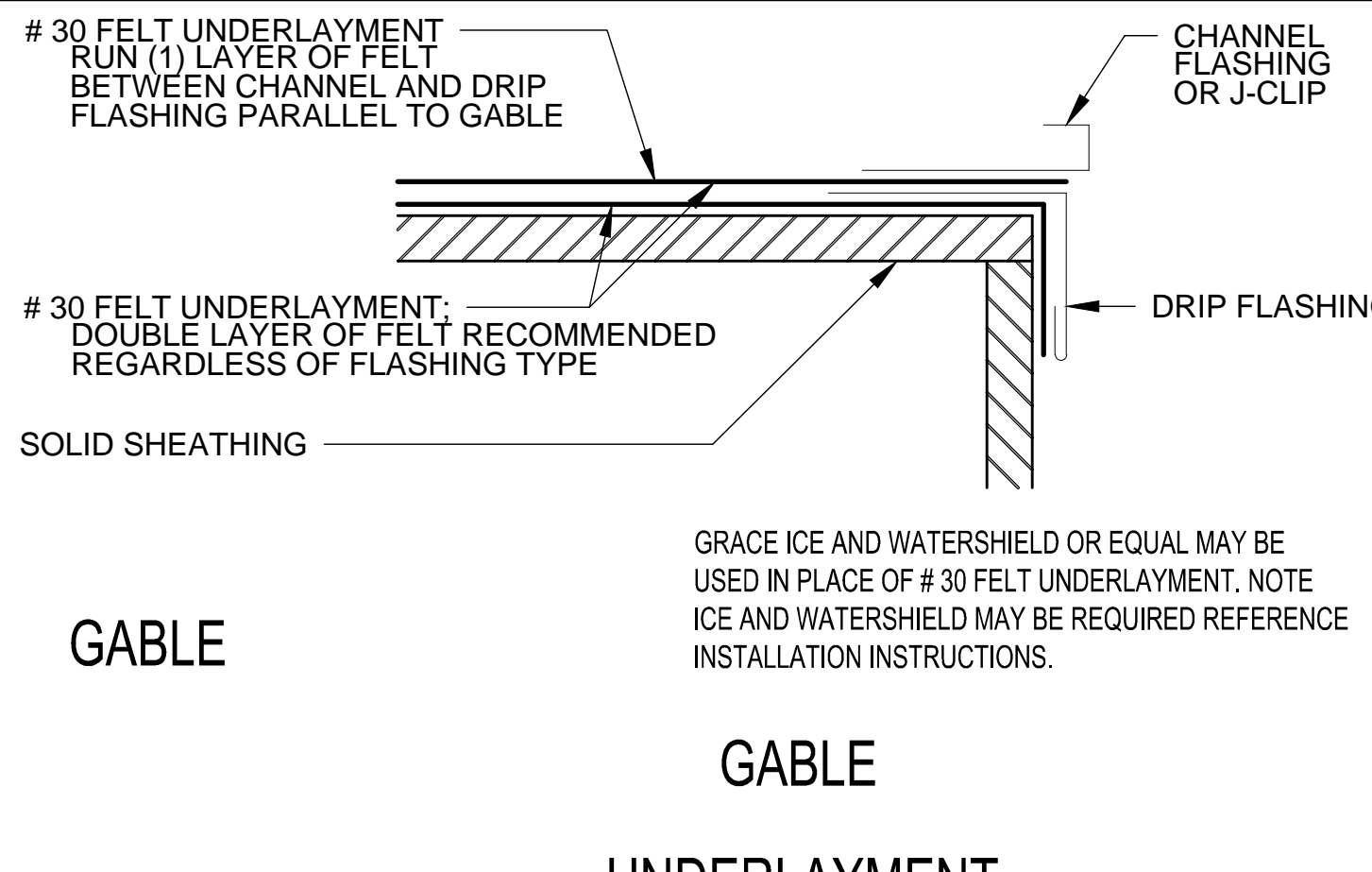
- CLEAN ROOF SURFACE OF ALL OBJECTS WHICH MAY PUNCTURE OR TEAR FELT UNDERLAYMENT.
- ATTACH FELT UNDERLAYMENT TO DECK BELOW USING COATED FELT CAPS. FASTENERS MUST BE TOTALLY FLUSH WITH SUBSTRATE. DO NOT USE ONE PIECE NAIL CAPS, AS THESE WILL "READ THROUGH" THE SURFACE.
- DO NOT FASTEN LOWER EDGE OF FELT @ SECOND COURSE (SEE ABOVE ILLUSTRATION). ALWAYS RUN FELT UNDERLAYMENT HORIZONTALLY STARTING @ THE EAVE AND LAP SINGLE 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.



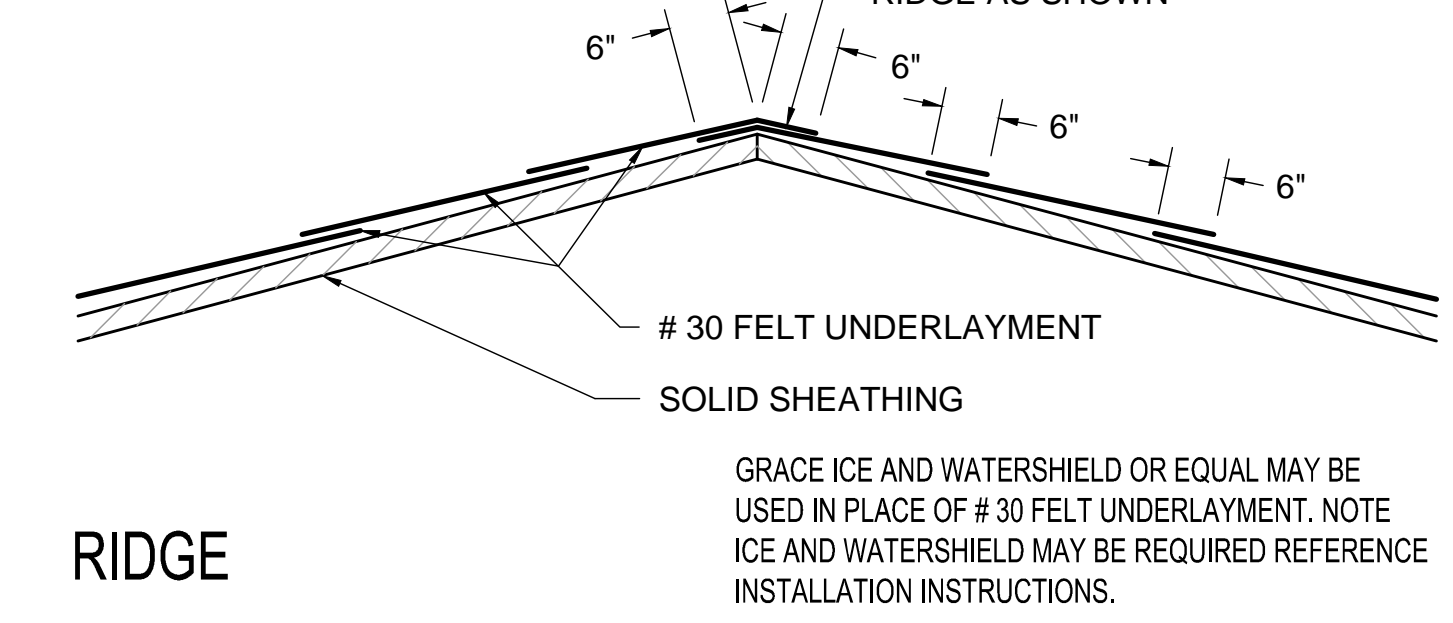
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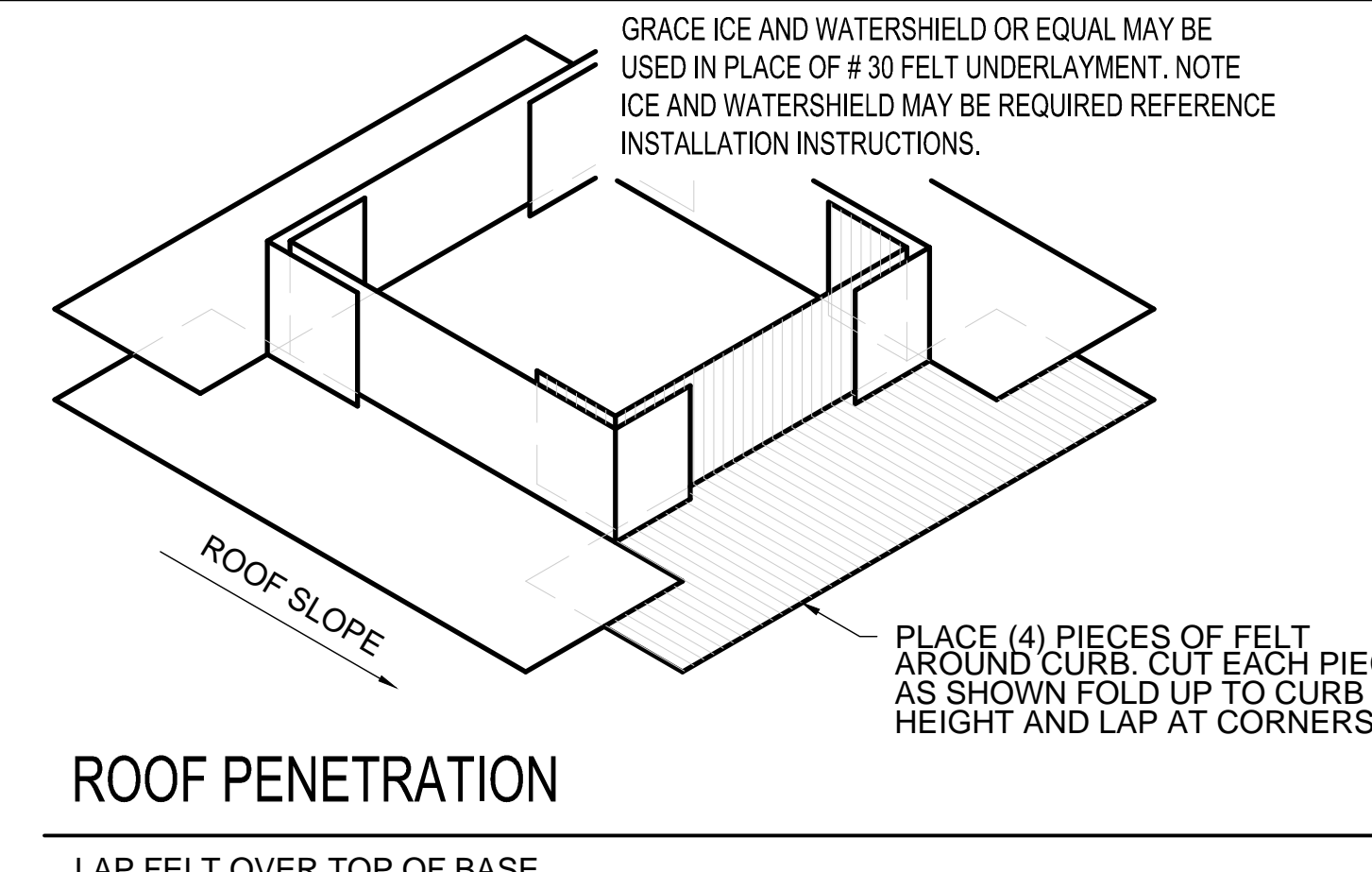
EAVE WITH GUTTER UNDERLAYMENT



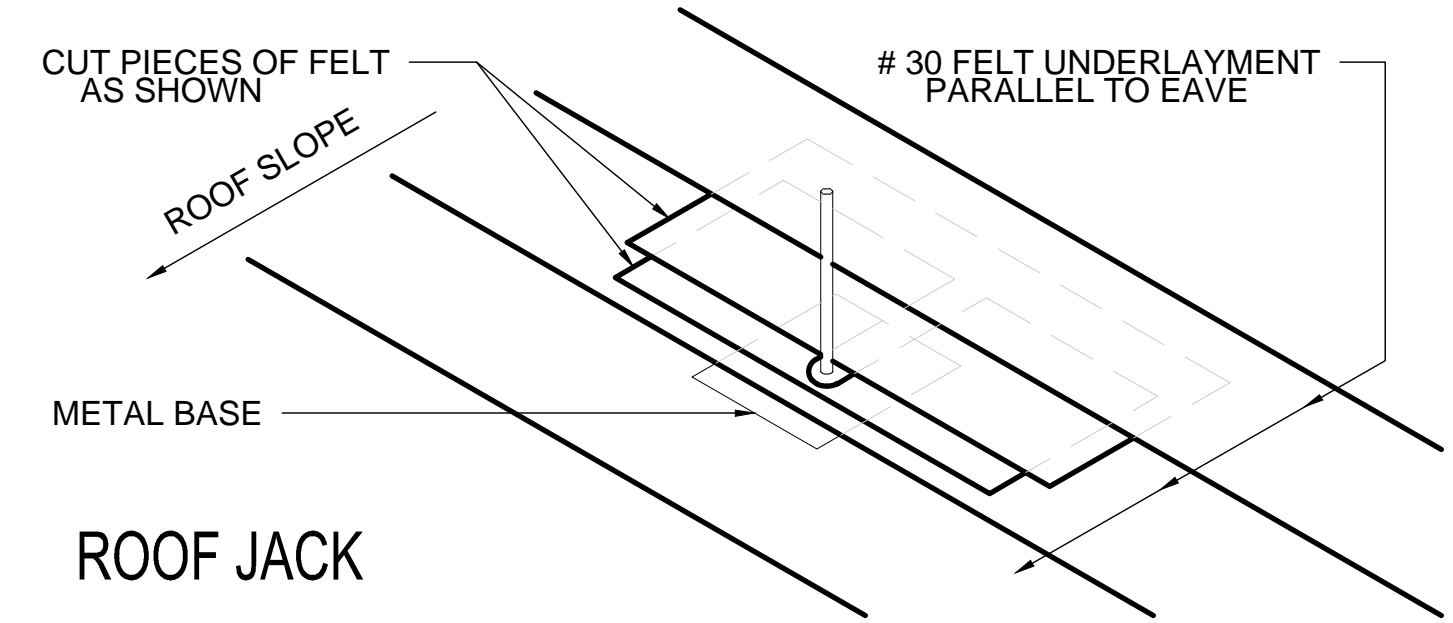
GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF #30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



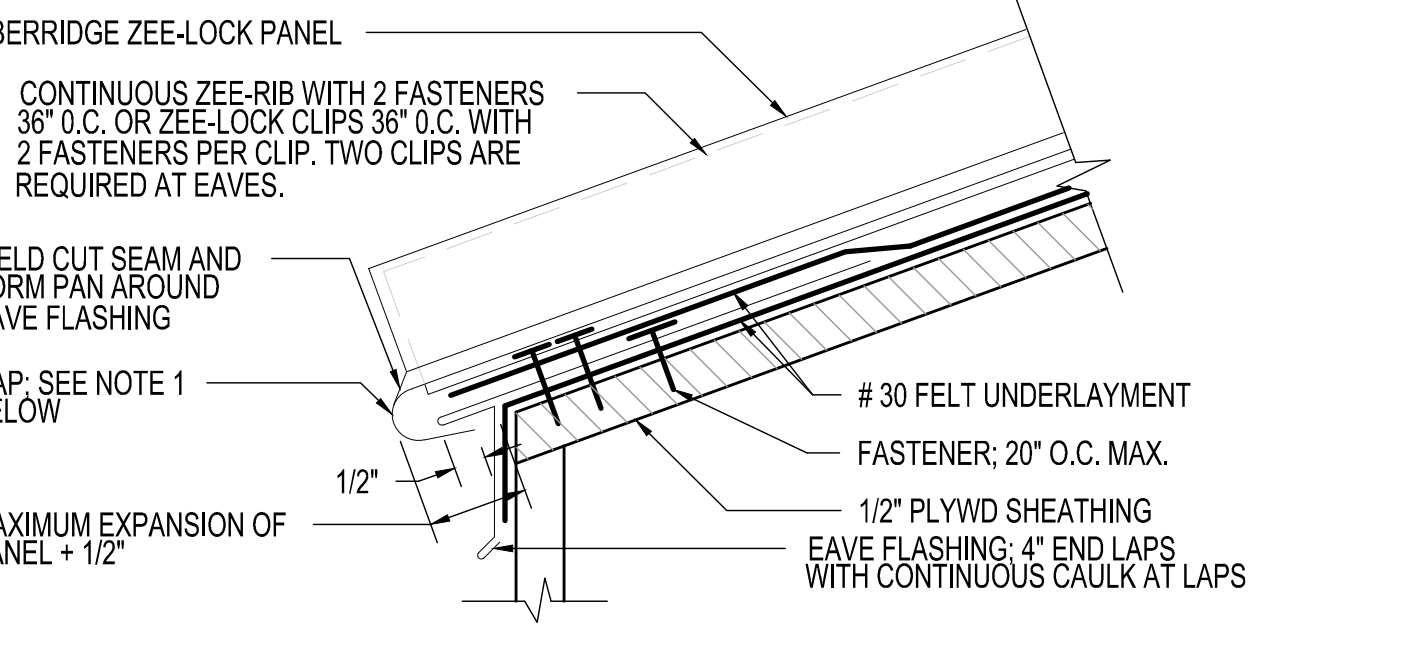
RIDGE UNDERLAYMENT



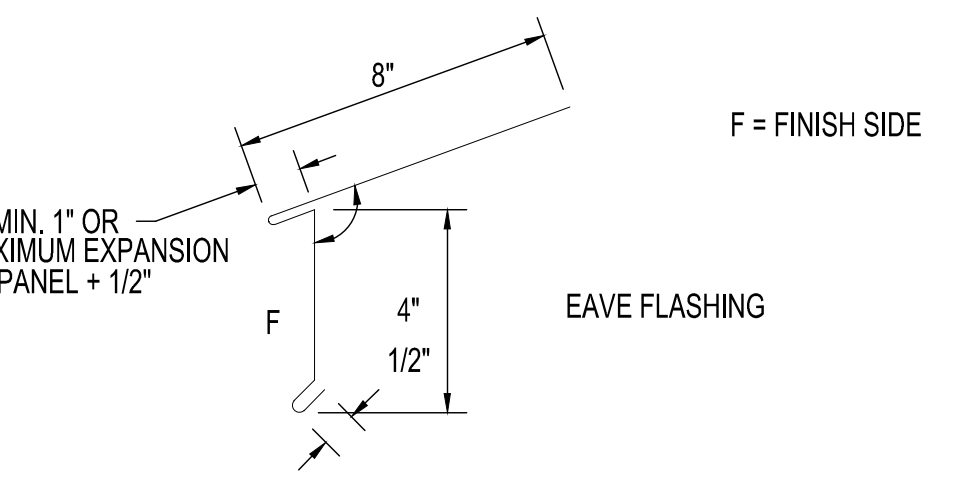
GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF #30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



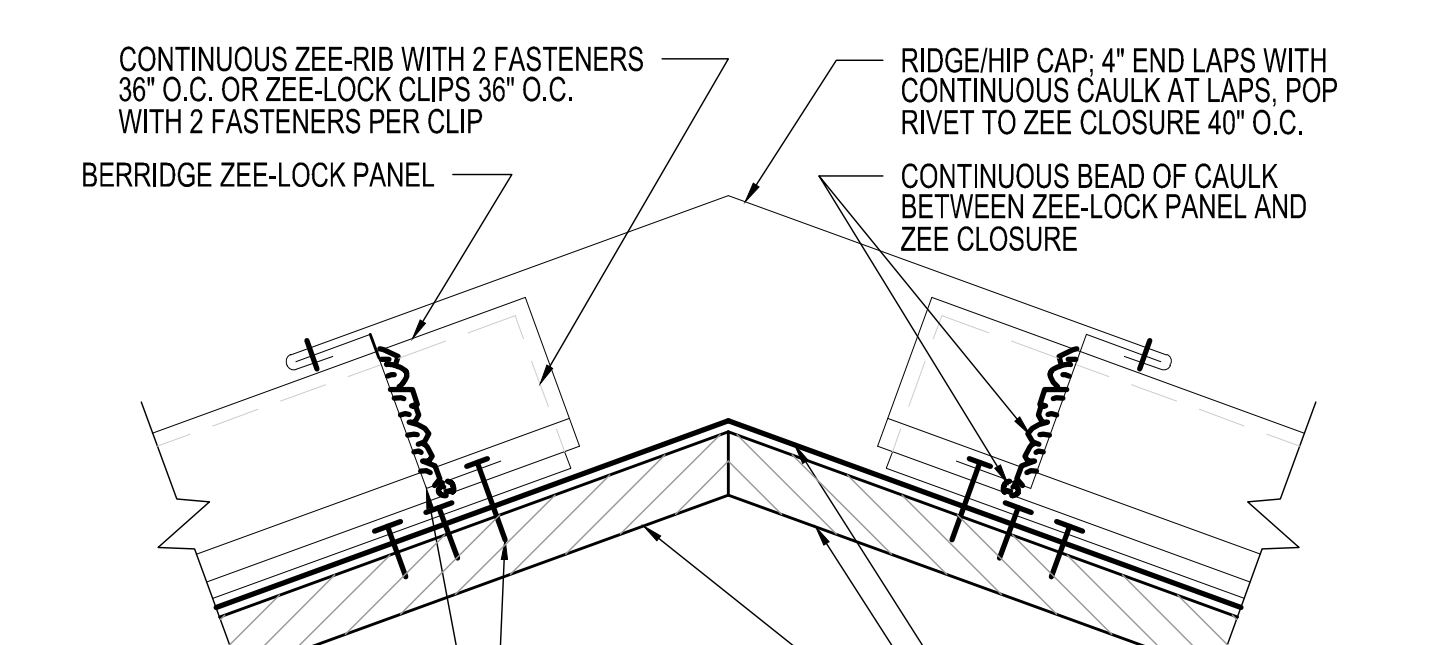
ROOF PENETRATION UNDERLAYMENT



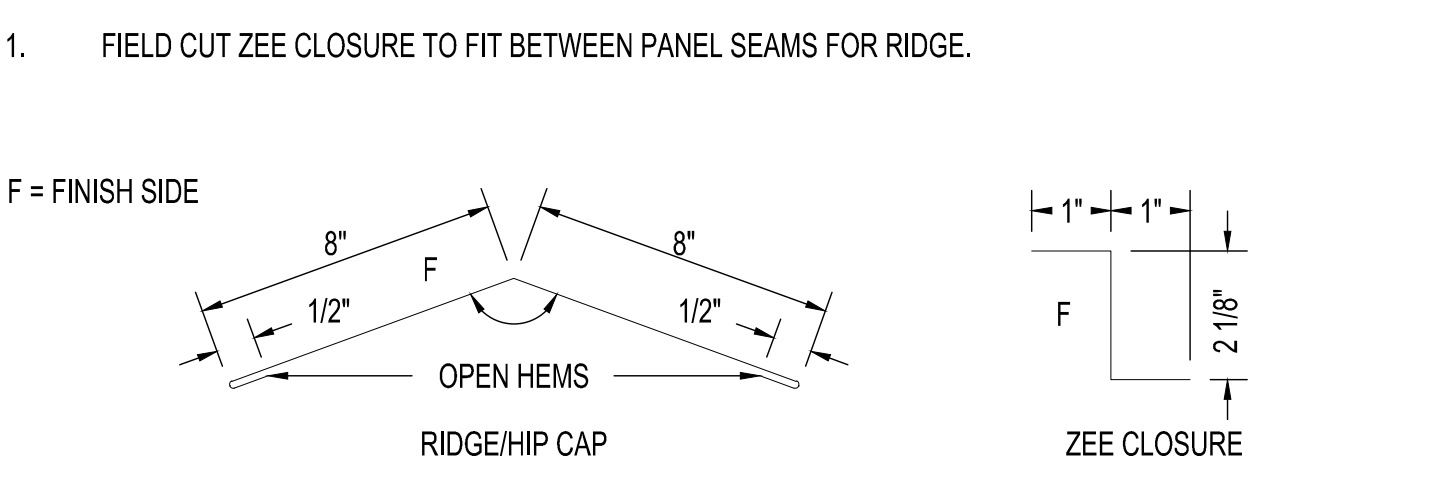
- THE "GAP" BETWEEN EAVE FLASHING AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION OF PANELS. NOTE 1/2" OF PAN MUST BE ENGAGED WITH EAVE FLASHING WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH.
- GAP BETWEEN EAVE FLASHING AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE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



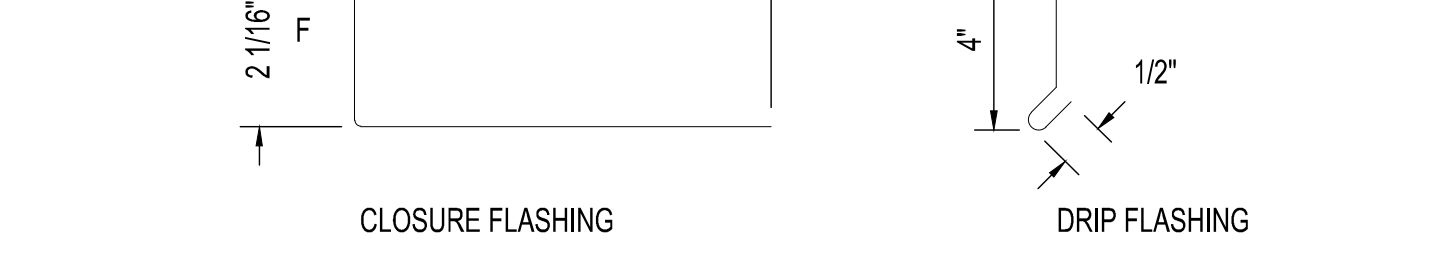
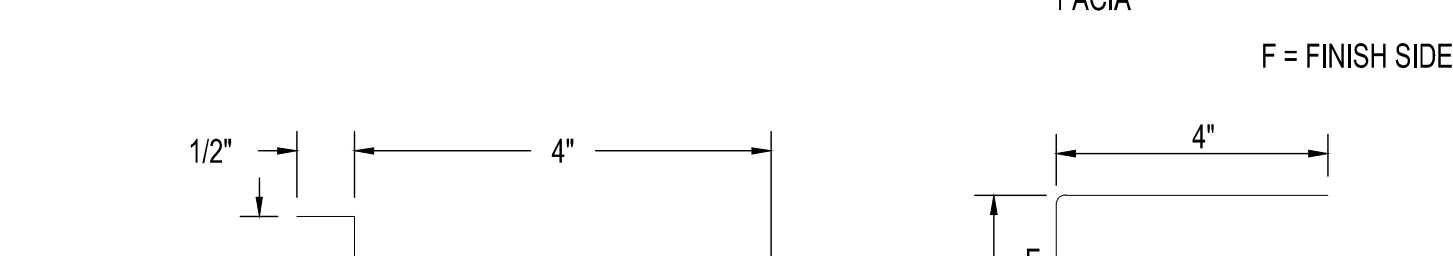
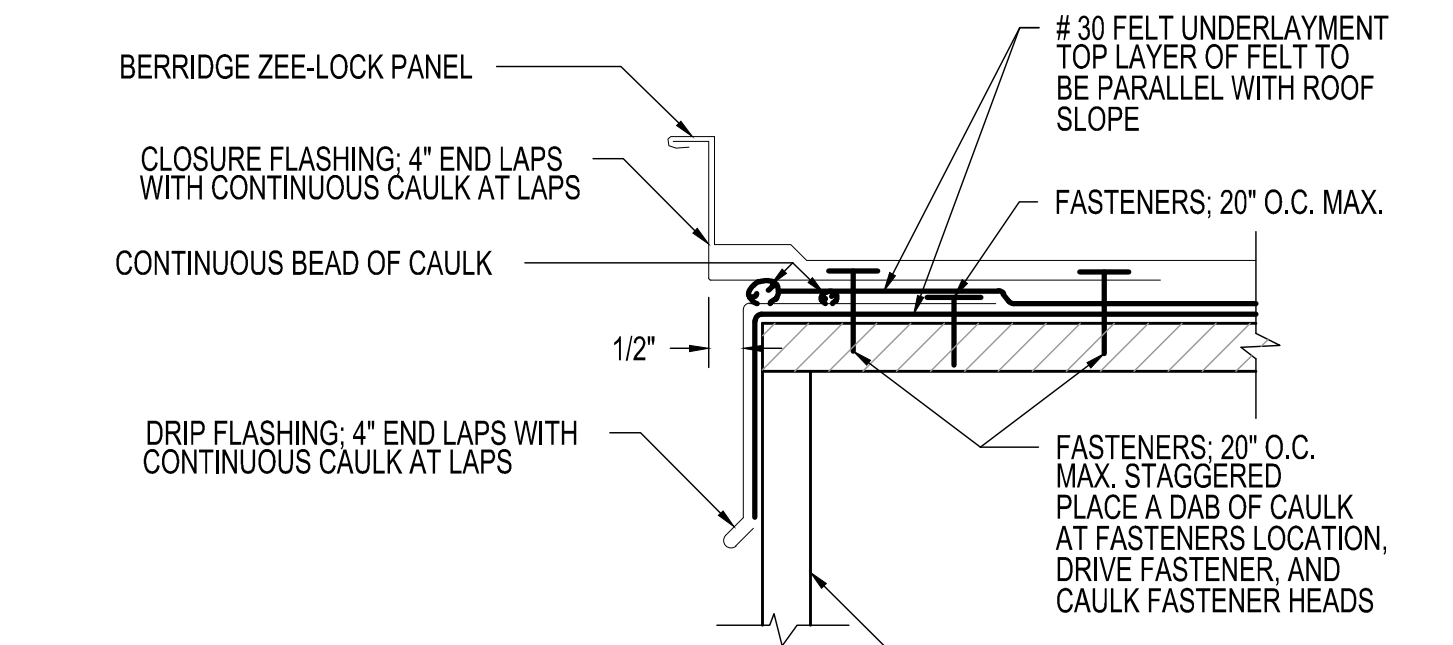
EAVE DETAIL



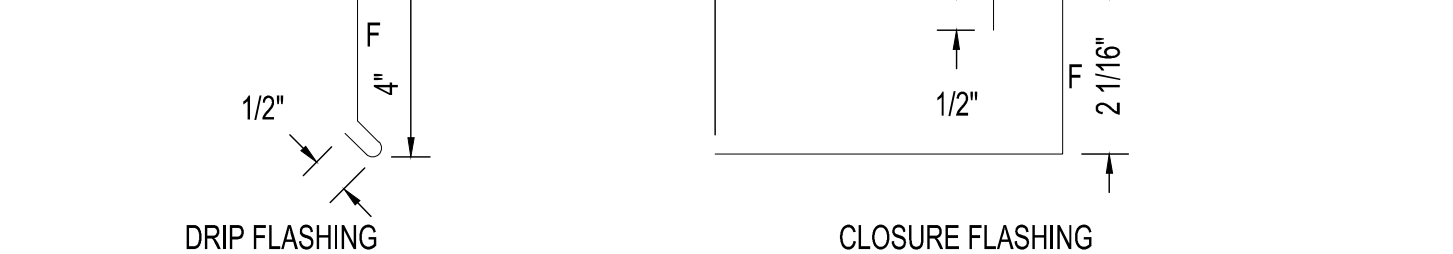
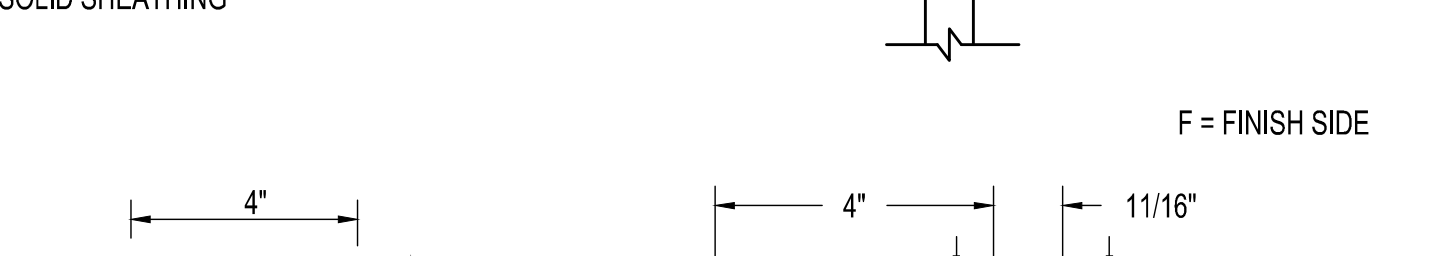
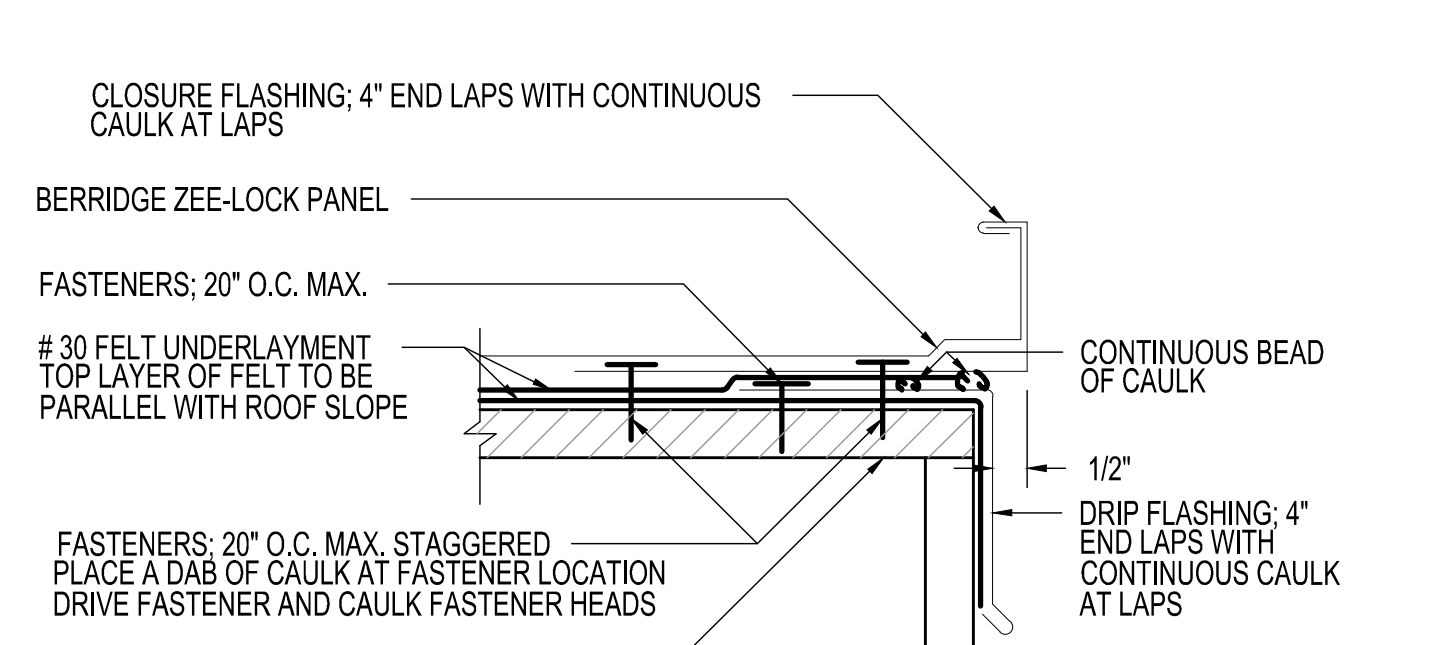
- FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS FOR RIDGE.



RIDGE DETAIL



GABLE DETAIL LEFT SIDE; CLOSURE FLASHING;



GABLE DETAIL RIGHT SIDE; CLOSURE FLASHING;

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WASTEWATER TREATMENT PLANT EXPANSION
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 EFFINGHAM COUNTY GA

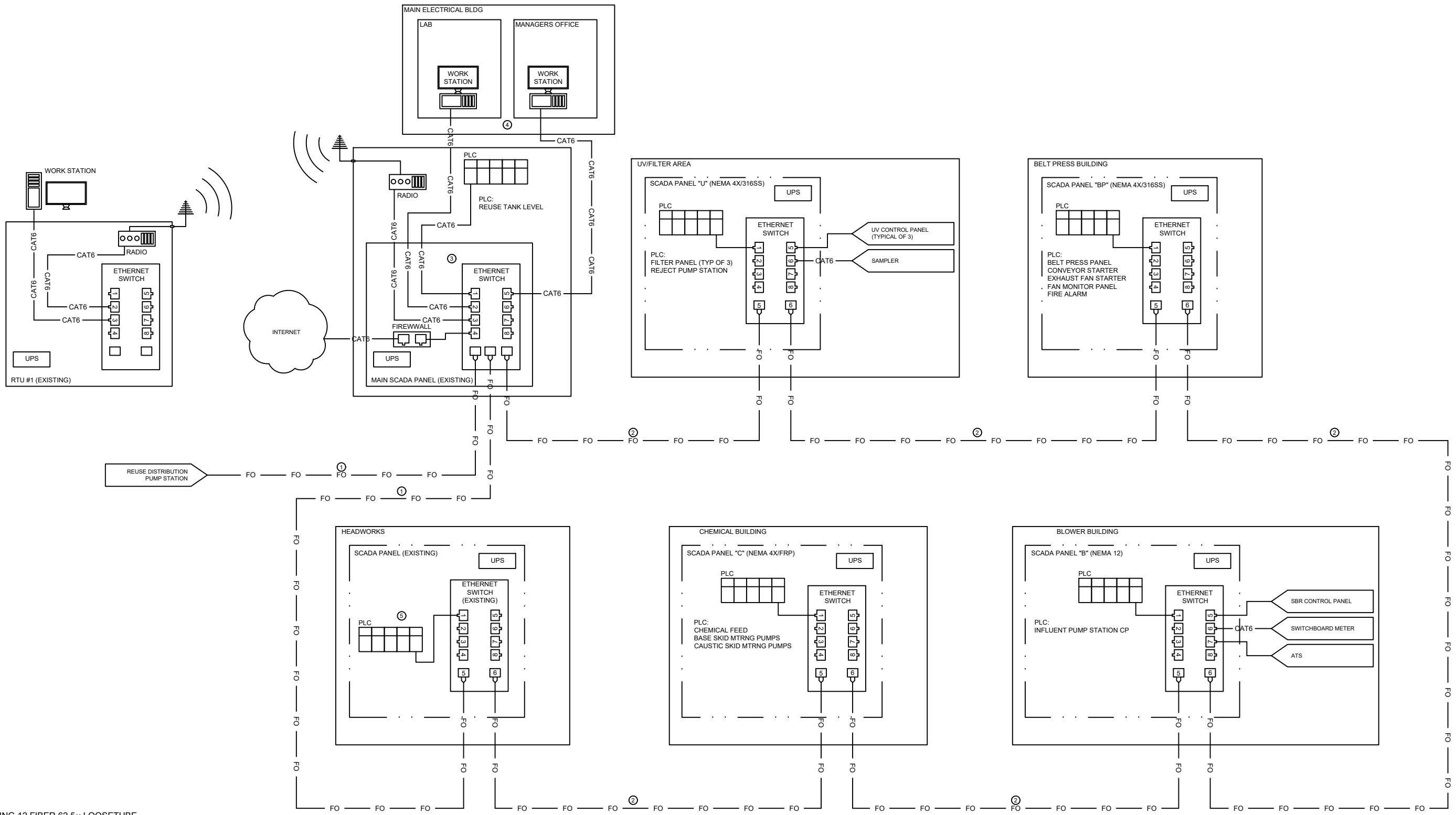
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| DESIGNED: 02/21/21 | DRAWN: 02/21/21-SS-CORE | CHECKED: 02/21/21 | APPROVED: 02/21/21 |
| PROJECT NO: 02/21/21 | FILE NAME: 02/21/21-SS-CORE | ORIGINAL DRAWING SIZE: 36"x24" | DATE: 2-7-2024 |

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MOTOR CONTROL CENTER
ROOF DETAILS
9S-7
SHEET 7 OF 07

1/24/24 11:18:17 AM D:\WORKING FILES - Client\occonee\2024\01\Motor Control Center\0221\SS-CORE.dwg (LAST MODIFIED: Monday, September 16, 2024 11:24:57 AM)
 PLOTTED BY: RAFAEL BOSWELL DATE: 2/7/2024 10:58:20 AM E:\SUBMITTALS\0221\SS-CORE\0221\SS-CORE.dwg (LAST MODIFIED: Monday, September 16, 2024 11:24:57 AM)



- NOTES:
- EXISTING 12 FIBER 62.5μm LOOSETUBE
 - NEW 12 FIBER TO MATCH EXISTING
 - REPLACE EXISTING SWITCH WITH NEW SWITCH
 - REPLACE EXISTING WORKSTATION WITH REDUNDANT PAIR WITH VT SCADA.
 - REPLACE EXISTING PLC WITH MODICON UNITY BASED PLC

| ENGINEERING FIRM | NO | DATE | REVISION | BY | NO | DATE | REVISION | BY |
|---|----|------|----------|----|----|------|----------|----|
| CONTROL INSTRUMENTS, INC
5253 OAKDALE RD
SMYRNA, GA 30082
404.351.1085 | 1 | | | | 5 | | | |
| | 2 | | | | 6 | | | |
| | 3 | | | | 7 | | | |
| | 4 | | | | 8 | | | |

CONTROL INSTRUMENTS, INC.
SMYRNA, GEORGIA

5253 OAKDALE ROAD • SMYRNA, GEORGIA 30082 • (404)351-1085

| SYSTEM LAYOUT | | | | | |
|--|-------|-------|--------------|-------------|-------|
| WWTP SCADA UPGRADE
CITY OF RINCON
RINCON, GA | | | | | |
| DRAWN | APPRD | SCALE | CUSTOMER NO. | DWG. NO. | SHEET |
| LH | MH | NTS | | | |
| DATE | | | JOB NO. | NETWORK DIA | SD01 |
| 08.28.23 | | | TBD | | |