

# BALDWIN WPCP - NEW SOLIDS HANDLING BUILDING

## FOR CITY OF BALDWIN

### HABERSHAM COUNTY, GEORGIA

NOVEMBER 2023

MAYOR \_\_\_\_\_

**STEPHANIE ALMAGNO**

CITY COUNCIL MEMBERS \_\_\_\_\_

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ERIK KEITH  
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KERRI DAVIS**

CHIEF ADMINISTRATIVE OFFICER \_\_\_\_\_

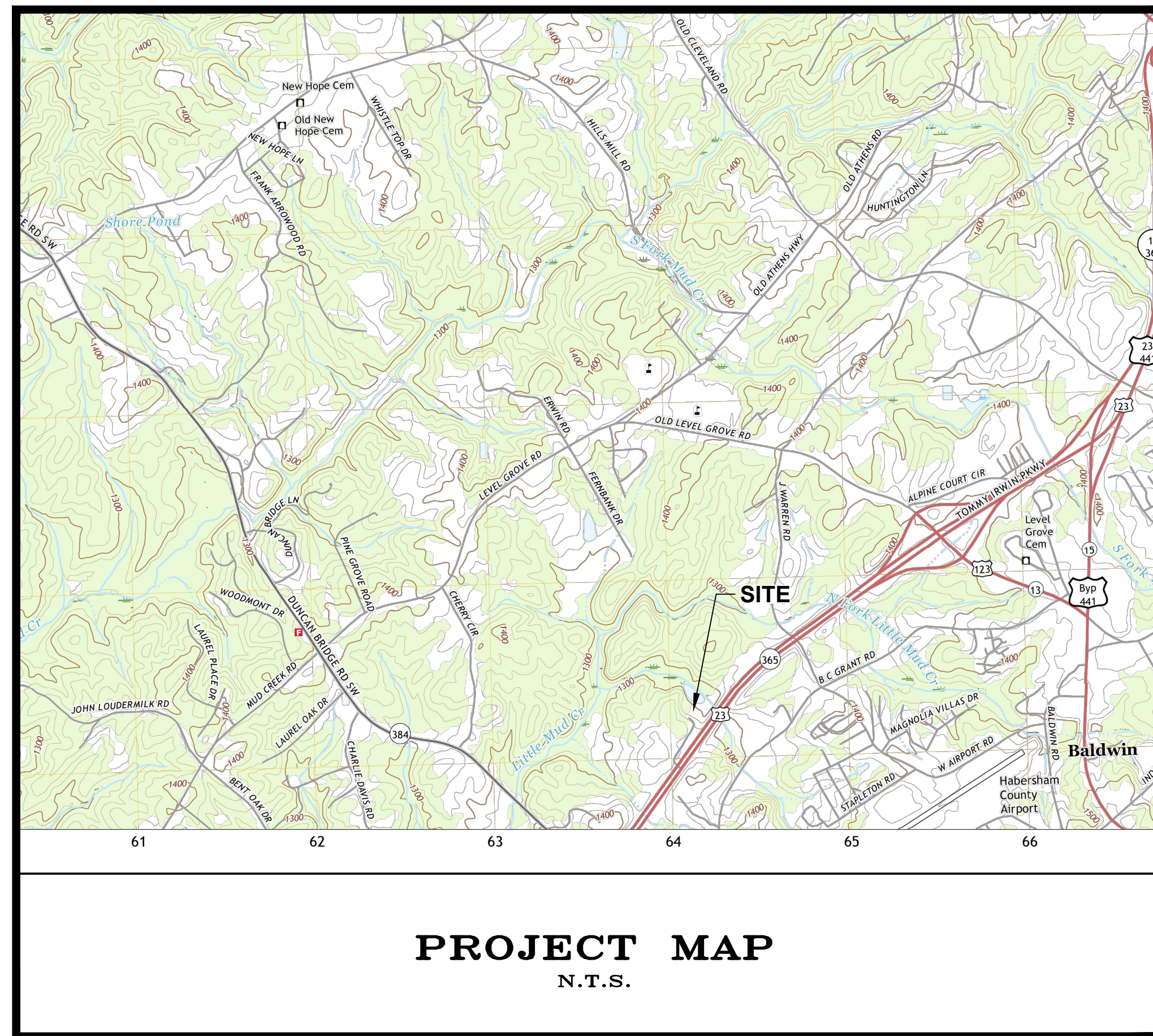
**EMILY WOODMASTER**

PUBLIC WORKS DIRECTOR \_\_\_\_\_

**SCOTT BARNHART**

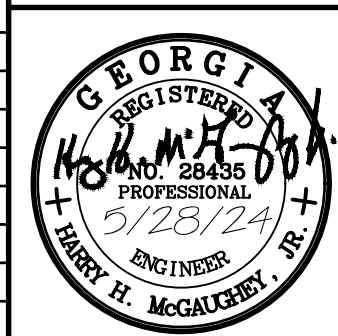
**OWNER:**

**CITY OF BALDWIN  
CITY HALL  
186 US HIGHWAY 441  
BALDWIN, GA. 30511  
PHONE (706)-778-6341**



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DATE	NO.	DESCRIPTION
11/15/2023	A	SUBMIT FOR EPD REVIEW
05/28/2024	B	RELEASED FOR BIDS

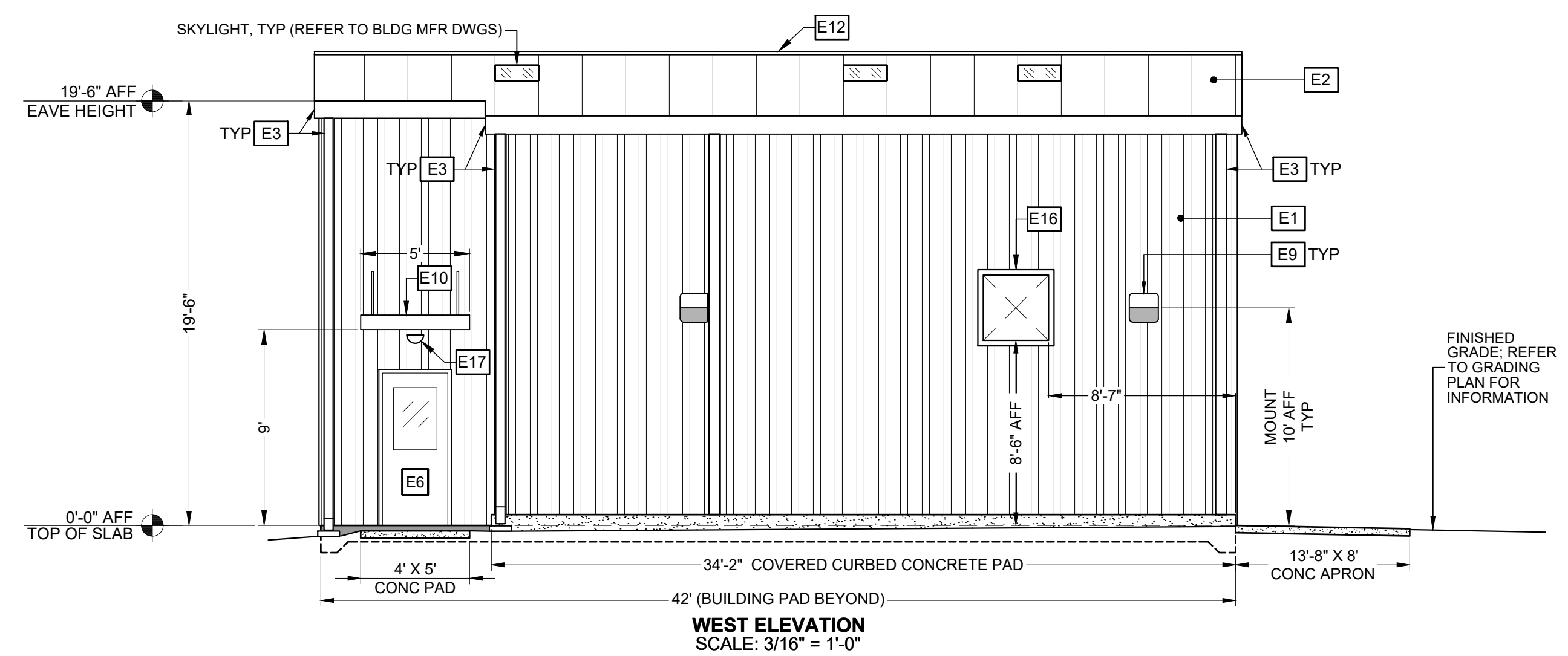
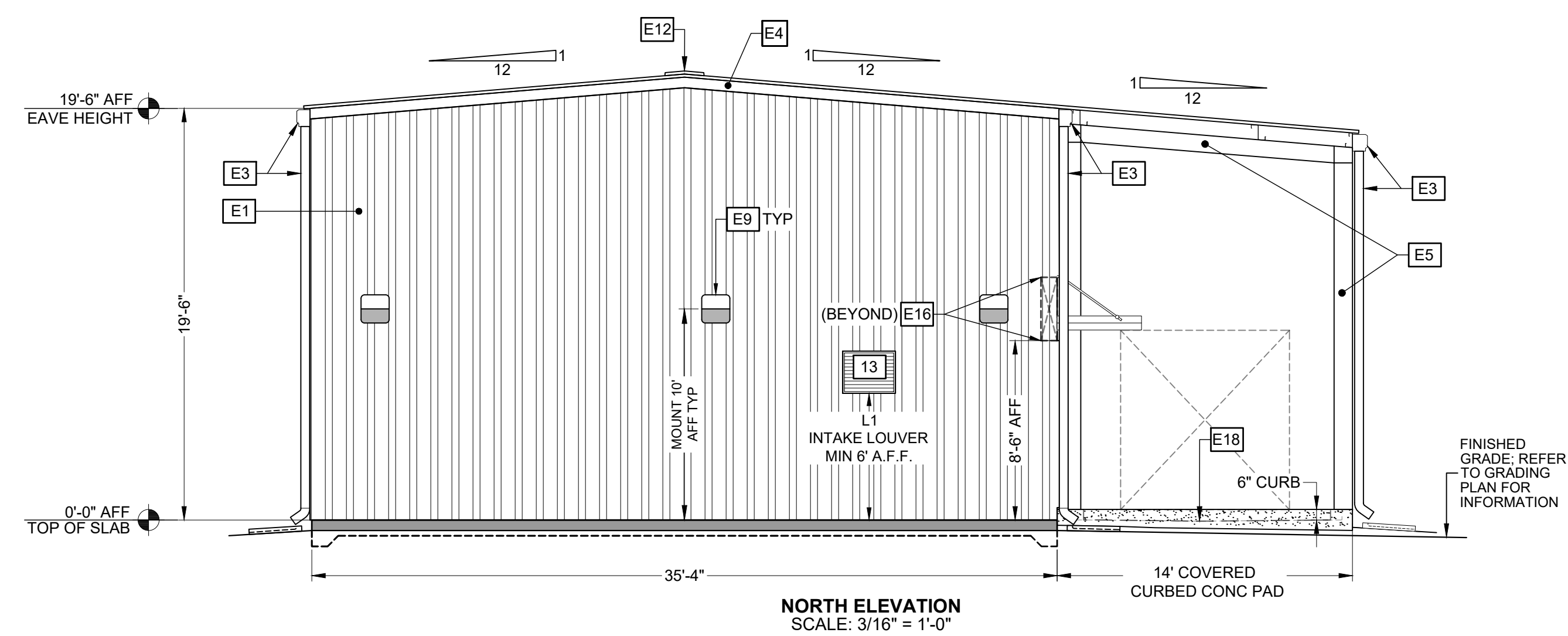
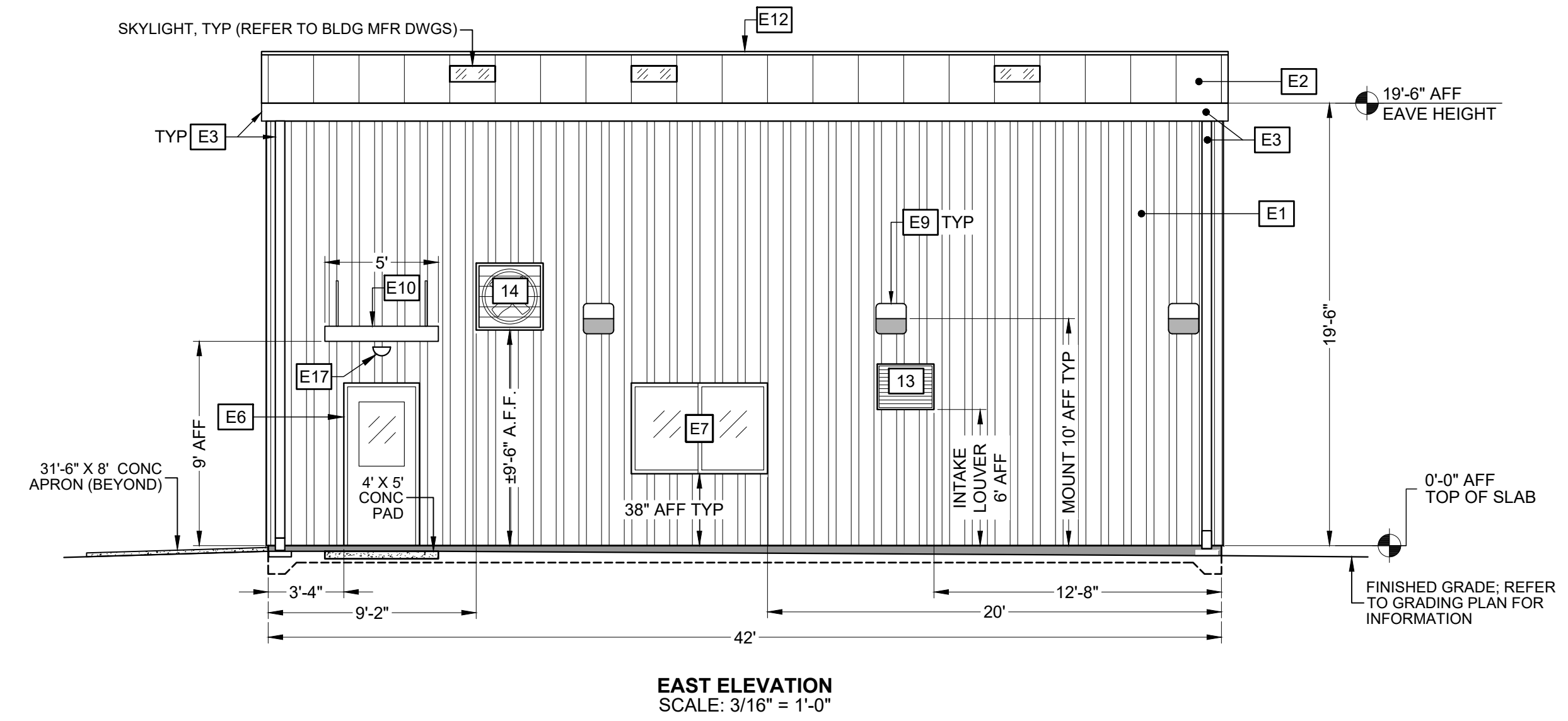
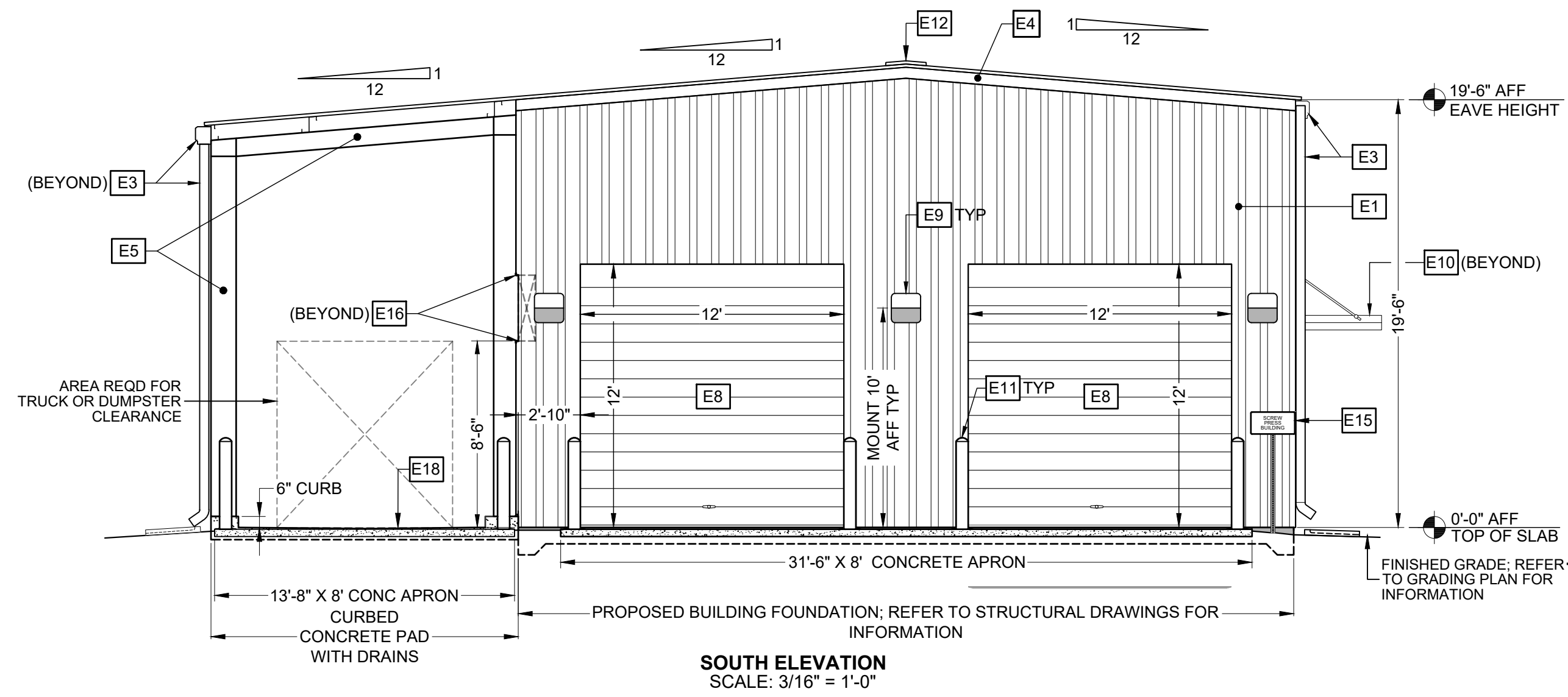


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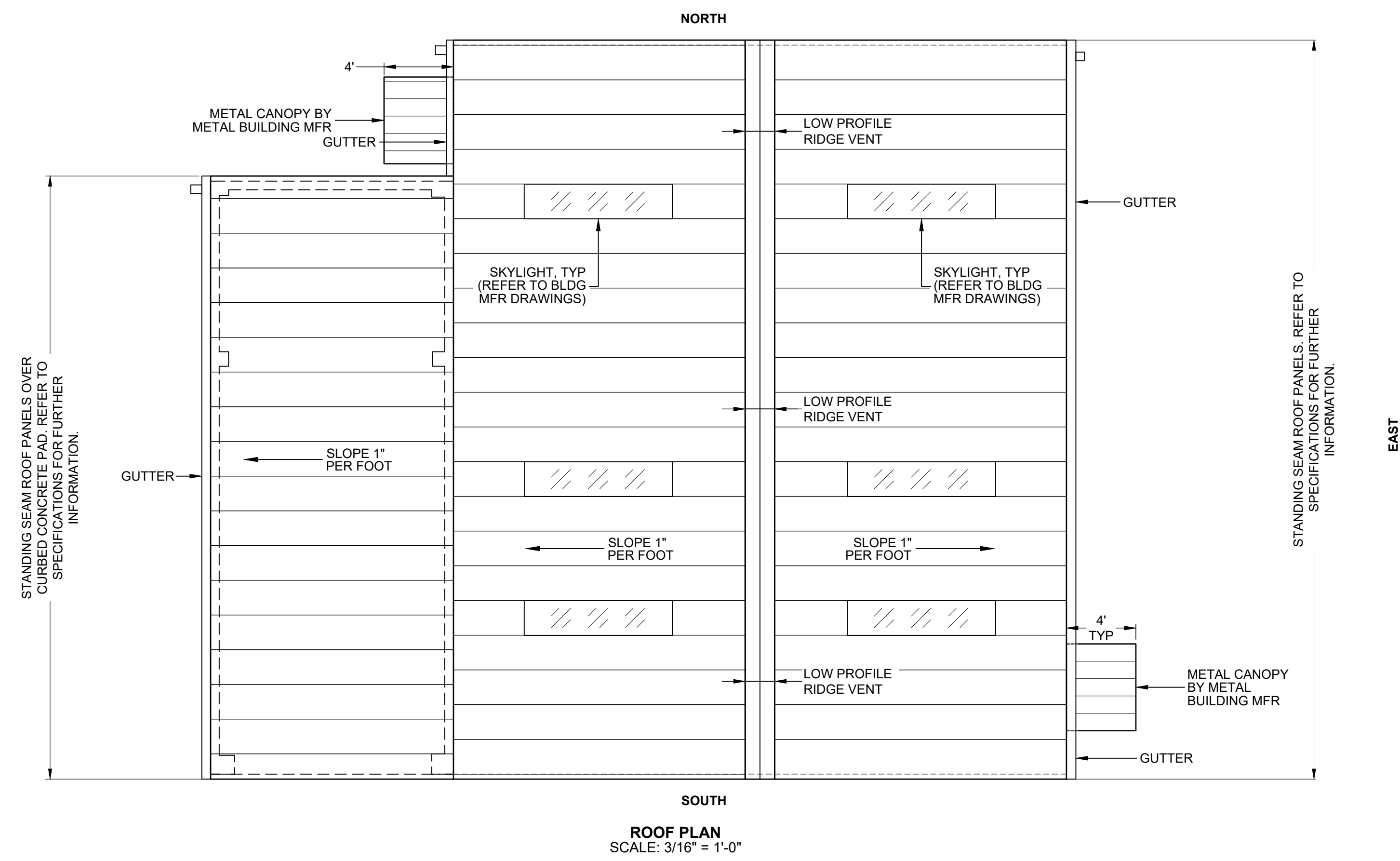
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Experience ■ Trust ■ Solutions  
303 Swanson Drive, Lawrenceville, GA 30043  
phone 770-962-1387 fax # 770-962-8010  
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PROJECT CONTACTS: CHIP MCGAUGHEY



PLAN KEY NOTES	
E1	METAL WALL PANELS BY METAL BUILDING MANUFACTURER.
E2	METAL ROOFING PANELS AND TRANSLUCENT PANELS PER BY METAL BUILDING MANUFACTURER. REFER TO SPECIFICATIONS.
E3	METAL GUTTERS AND DOWNSPOUTS BY METAL BUILDING MANUFACTURER.
E4	METAL RAKE AND TRIM BY METAL BUILDING MANUFACTURER.
E5	ROOF STRUCTURE FOR CURBED CONCRETE PAD. ROOF, FRAME, AND COLUMNS BY BUILDING SUPPLIER. ANCHOR TO CONCRETE PAD PER BLDG MFR RECOMMENDATIONS. ROOF SHALL MATCH BUILDING ROOF.
E6	EXTERIOR PEDESTRIAN DOOR - SEE SHEET A4
E7	EXTERIOR WINDOW - SEE SHEET A4
E8	12' WIDTH X 12' HEIGHT OPENING FOR ROLL-UP DOOR - SEE SHEET A4
E9	EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL PLANS.
E10	METAL CANOPY AT PEDESTRIAN DOOR. BY METAL BUILDING MANUFACTURER.
E11	6" CONCRETE FILLED BOLLARD. SEE DETAIL P8, SHEET D3
E12	LOW PROFILE RIDGE VENT PER METAL BUILDING MANUFACTURER.
E13	WALL LOUVER - PRE-FINISHED TO MATCH WALL SIDING. REFER TO ELECTRICAL PLANS.
E14	WALL MOUNTED EXHAUST FAN. REFER TO ELECTRICAL PLANS.
E15	BUILDING SIGN. SEE DETAIL 5000, SHEET D3. LOCATION TO BE DETERMINED BY PLANT OPERATOR.
E16	OPENING IN BUILDING WALL FOR SCREW PRESS INCLINED CONVEYOR PASS THROUGH (SHOWN FOR REFERENCE ONLY). CONTRACTOR SHALL VERIFY REQUIRED LOCATION AND SIZE OF OPENING PER CONVEYOR MFR.
E17	EXTERIOR LIGHT OVER PEDESTRIAN DOOR
E18	SLOPE FLOOR OF CURBED CONCRETE PAD TO DRAIN INLETS. SEE SHEET M4



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DATE	NO.	DESCRIPTION
05/28/2024	A	RELEASED FOR BIDS

**BALDWIN WASTEWATER RECLAMATION FACILITY SCREW PRESS BUILDING**  
CITY OF BALDWIN, GEORGIA  
HABERSHAM COUNTY, GEORGIA - G.M.D. 1612

**ENGINEERING MANAGEMENT**  
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ARCHITECTURAL ELEVATIONS & ROOF PLAN  
**SHEET TITLE**  
DESIGN BY: KLP  
DRAWN BY: KLP  
CHECKED BY: HHM

GSWCC LEVEL II CERTIFICATION NO. 11380  
  
**STAMP**

3/09/23 DATE  
21056 JOB NUMBER  
z: Projects z: LOCATION  
FILE LOCATION

PATH & FILE: Z:\PROJECTS\121056 Baldwin Solids Handling Building\Bldg Phase\BPP-Released for Bids\121056 SCREW PRESS BLDG BID SET.dwg

**A2**

**SHEET**

**GENERAL BUILDING NOTES**

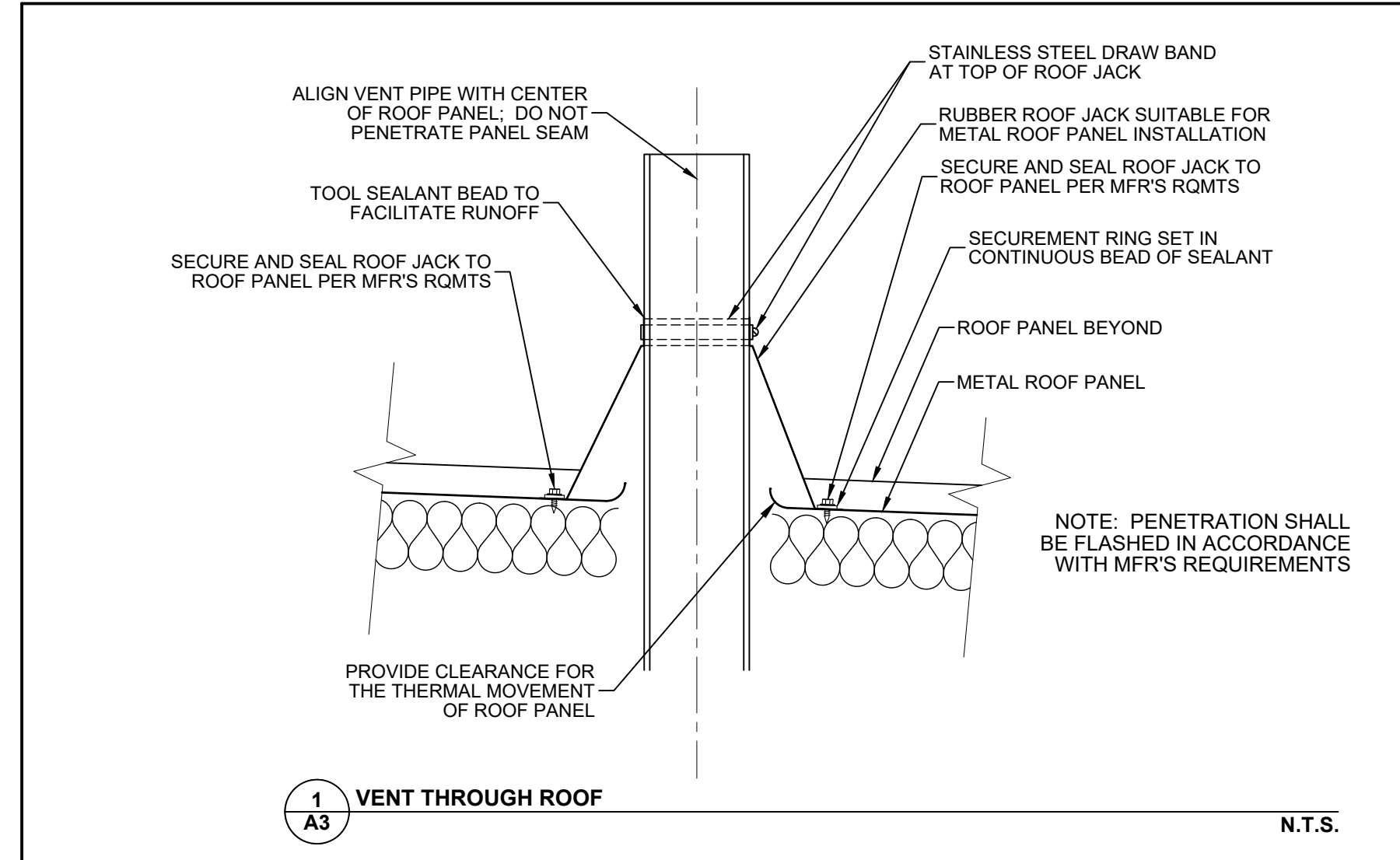
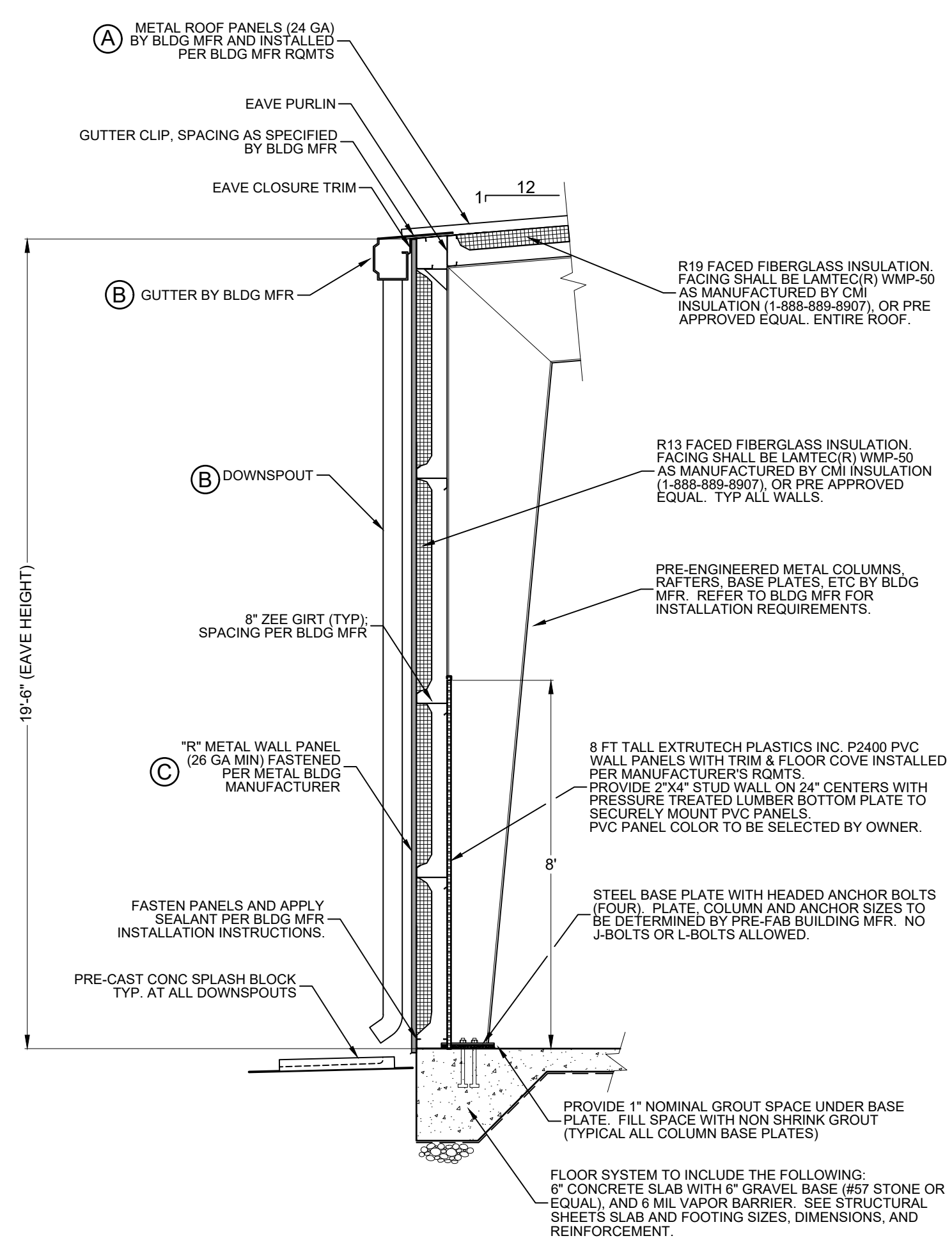
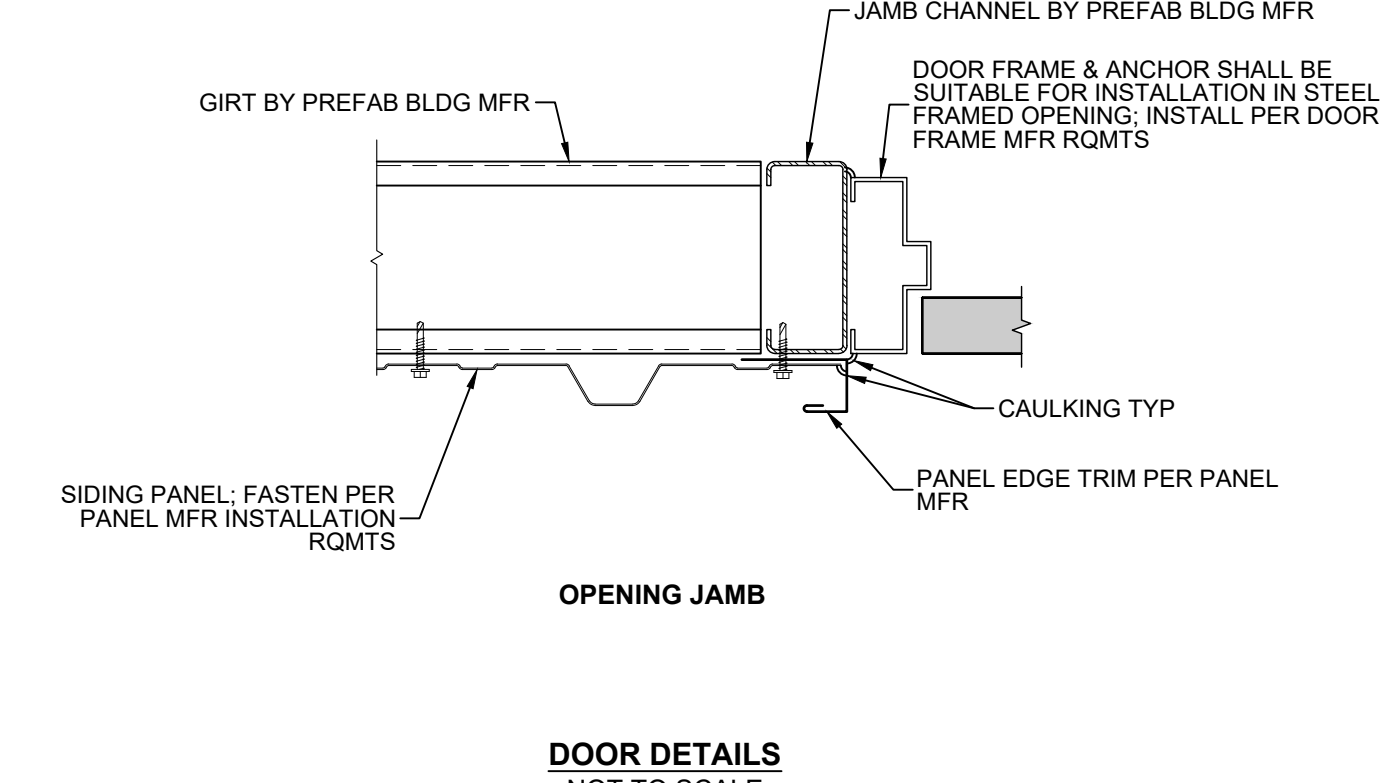
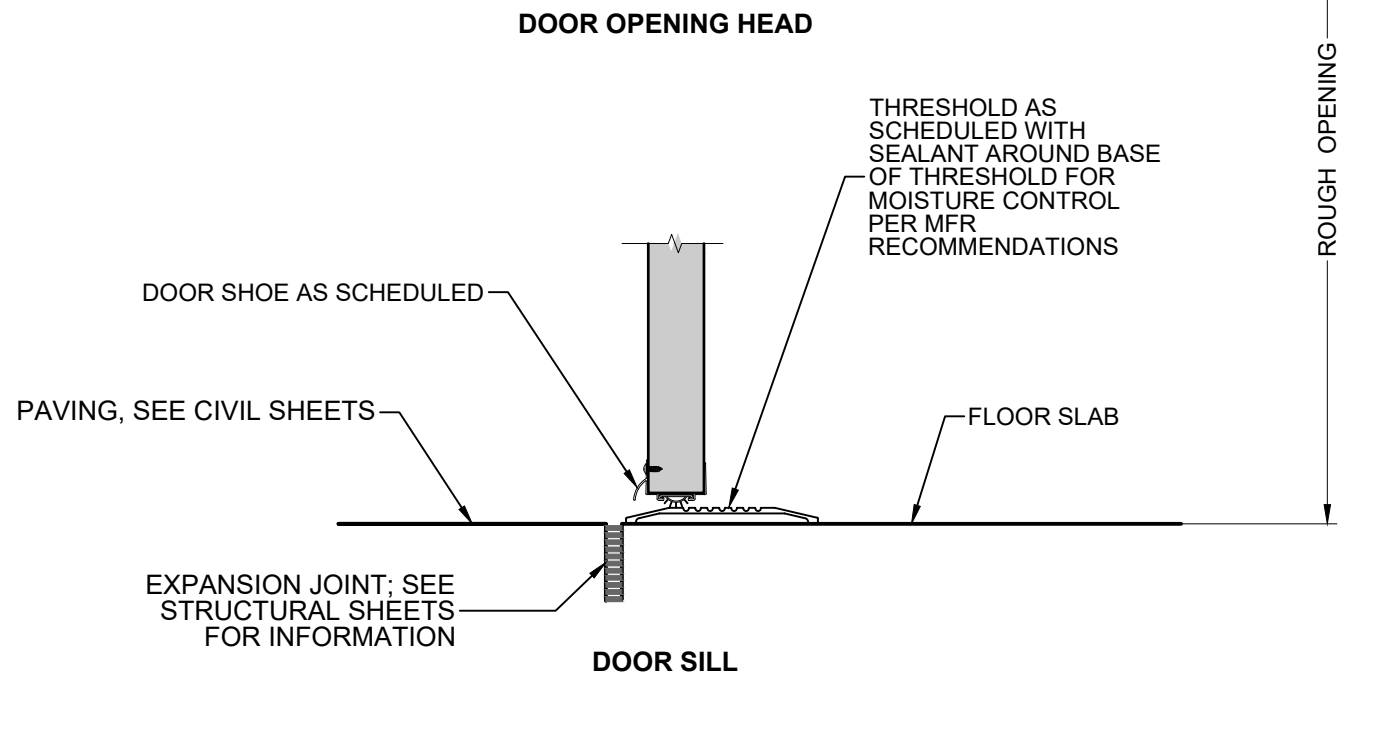
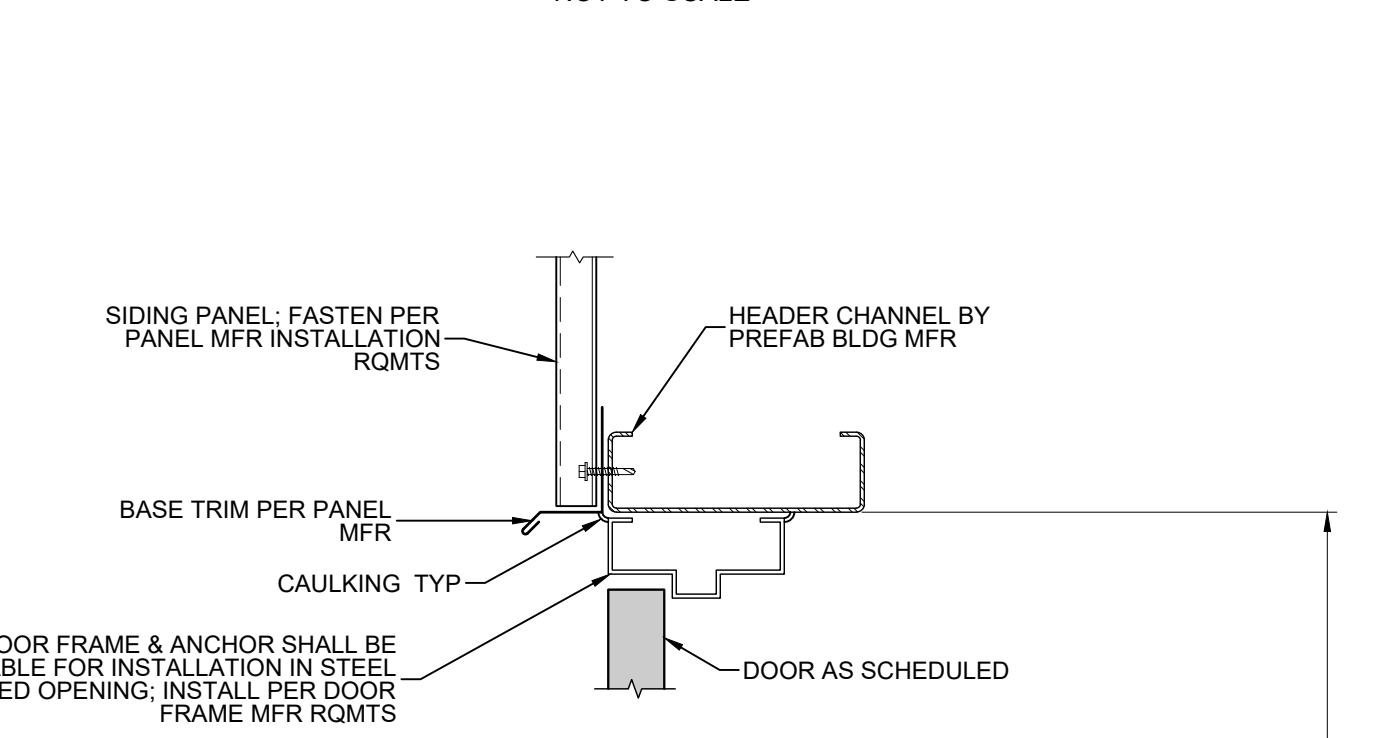
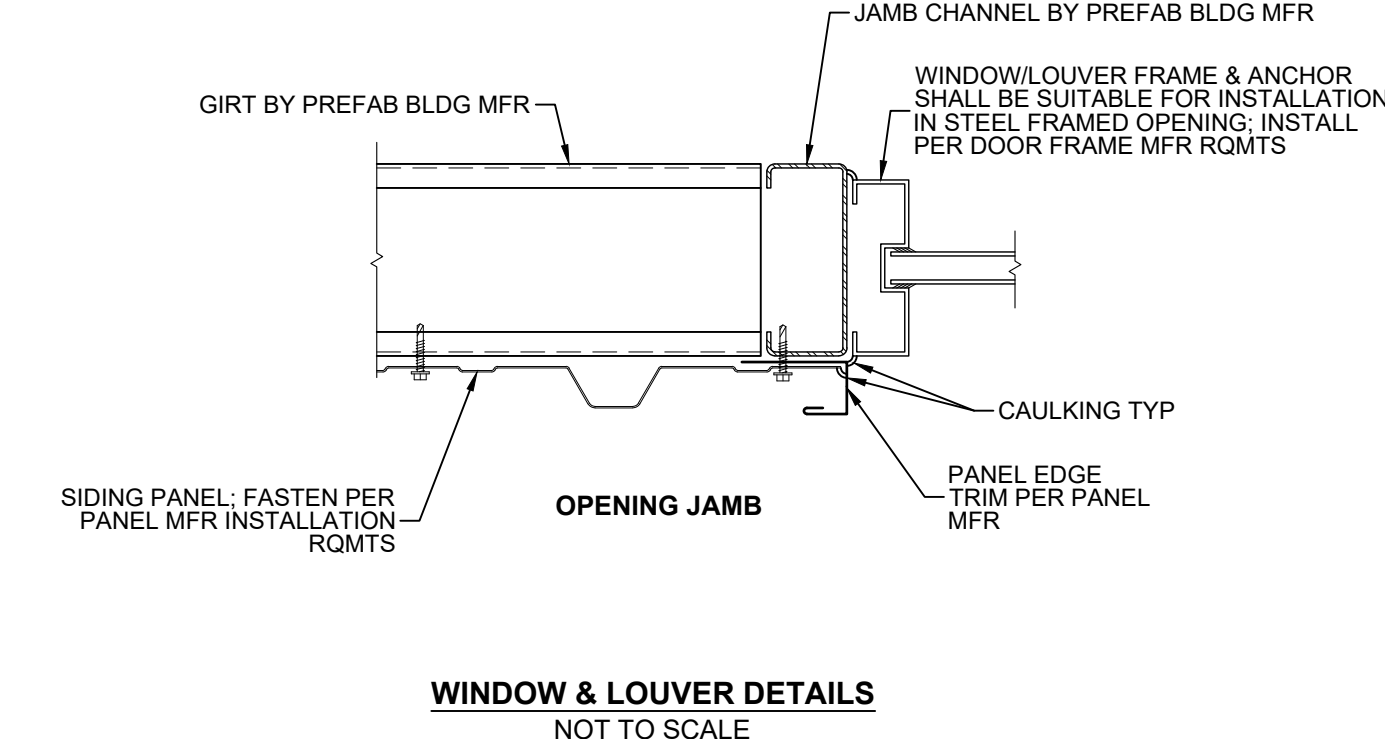
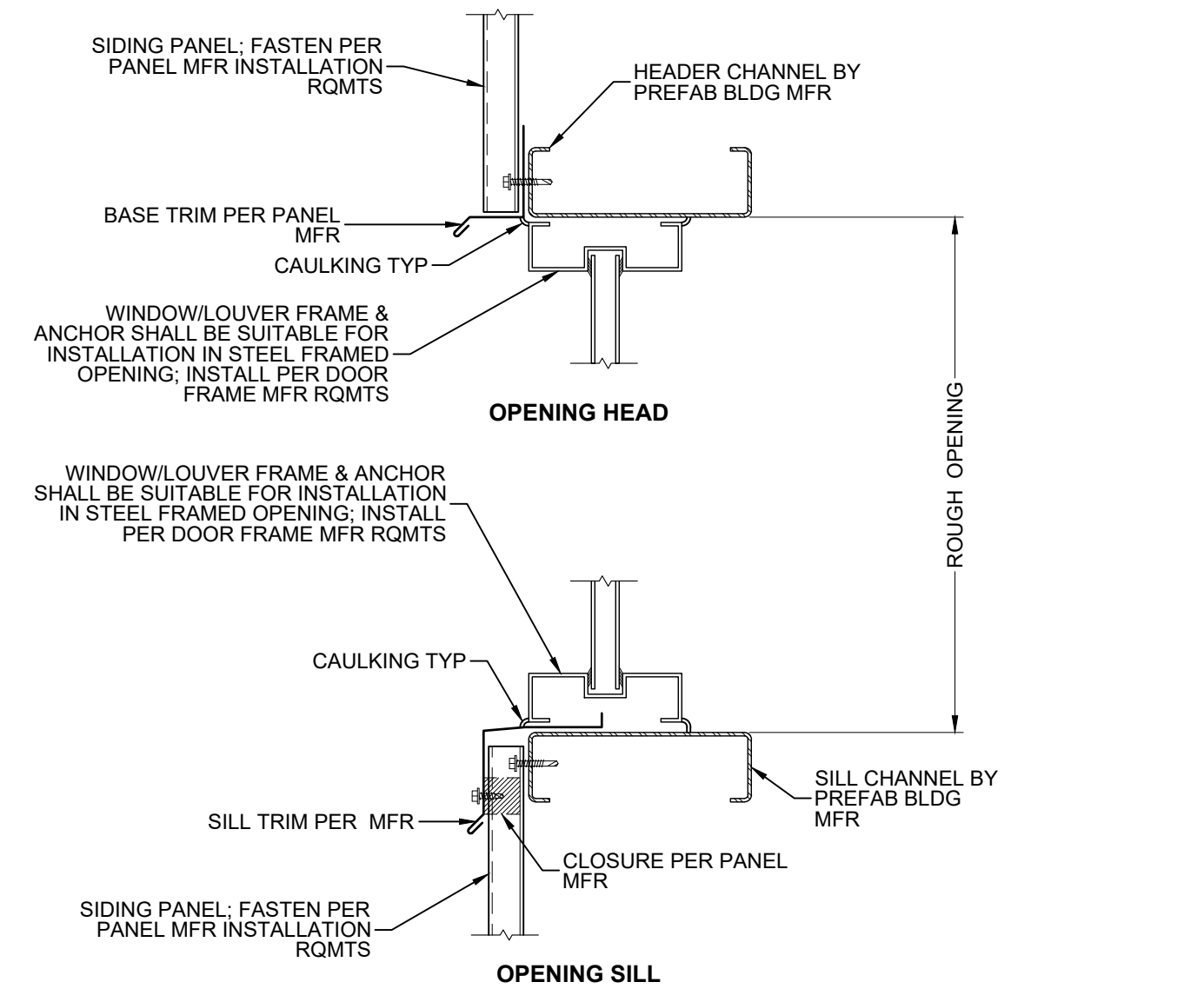
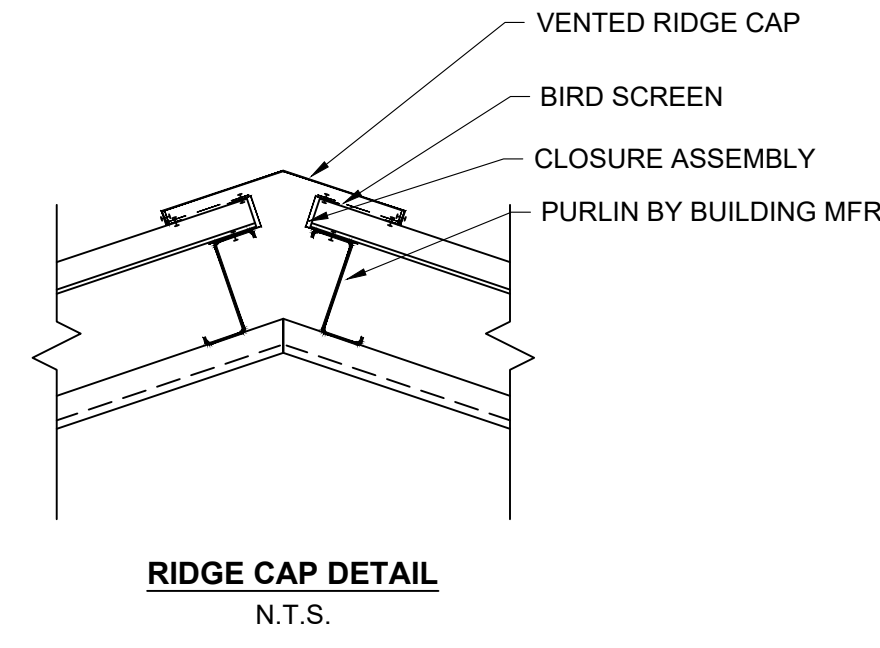
- THE FOLLOWING PRODUCTS AND MANUFACTURER'S ARE LISTED AS A STANDARD OF QUALITY AND MINIMUM FUNCTIONAL REQUIREMENTS.
- (A)** STANDING SEAM METAL ROOF PANEL AS MANUFACTURED BY METAL BLDG. MANUFACTURER. ROOF SHALL BE 24 GAUGE. ROOF SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS. ROOF SHALL INCLUDE ALL FLASHING, TRIM, DRIP EDGE, HARDWARE AND ACCESSORIES FOR A COMPLETE INSTALLATION. COLOR TO BE SELECTED BY OWNER.
  - (B)** STANDARD 6 INCH RECTANGULAR ALUMINUM GUTTER AND 5 INCH RECTANGULAR DOWNSPOUT WITH ACCESSORIES AND TRIM FOR COMPLETE INSTALLATION. DOWNSPOUTS AND GUTTERS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS. COLOR TO MATCH ROOF PANELS. ONE (1) CONCRETE SPLASHBLOCK SHALL BE SUPPLIED AND INSTALLED PER DOWNSPOUT.
  - (C)** METAL WALL PANELS TO BE APPROVED BY OWNER. COLOR TO BE SELECTED BY OWNER FROM MANUFACTURER'S COLOR RANGE.
  - (D)** ALL EXPOSED STEEL TO BE EPOXY PAINTED PER SECTION 09900; COLOR TO BE SELECTED BY OWNER.
  - (E)** FLOOR FINISH - SEALED CONCRETE PER SECTION 03370.
  - (F)** DOORS - FOR ALL DOOR INFORMATION, SEE THE DOOR SCHEDULE AND DOOR HARDWARE SCHEDULE SHEET A4.
  - (G)** WINDOWS - HORIZONTAL SLIDING WINDOWS WITH ALL HARDWARE, GLASSING AND WEATHERSTRIPPING AS MANUFACTURED BY PEERLESS PRODUCTS, INC. OR EQUAL. FRAME COLOR TO BE SELECTED BY OWNER. SHOP DRAWINGS REQUIRED.
  - (H)** SHOP DRAWINGS REQUIRED ON THE FOLLOWING ITEMS:  
PRE-ENGINEERED METAL BUILDING, DOORS AND HARDWARE, WINDOWS, MILLWORK, AIR HANDLING EQUIPMENT, REBAR PLACEMENT, AND CONCRETE MIX DESIGN.

**METAL BUILDING SYSTEM NOTES**

1. FURNISH ALL LABOR, MATERIALS, AND ENGINEERING SERVICES REQUIRED TO COMPLETE THE ROOF AND WALL FRAMING SYSTEM, ROOF DECK, AND WALL PANELS, INCLUDING ANCHOR BOLTS, COLUMNS, BEAMS GIRTS, BRACING MOUNTING ACCESSORIES, ROOF INSULATION, METAL TRIM, FASCIA, GUTTERS, INSULATION AND OTHER COMPONENTS REQUIRED FOR A COMPLETE JOB.
2. AN ANCHOR BOLT SETTING PLAN AND ANCHOR BOLT TEMPLATES SHALL BE PROVIDED BY METAL BUILDING SYSTEM CONTRACTOR.
3. THE METAL BUILDING SHALL MEET OR EXCEED THE LIVE LOAD AND WIND LOAD REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE. MINIMUM WIND LOAD 115 MPH (3 SECOND PEAK GUST). COLLATERAL LOAD 5 PSF. LIVE LOAD TO BE CALCULATED IN ACCORDANCE WITH SPECIFICATION SECTION 13120.
4. STRUCTURAL SYSTEMS SHALL BE DESIGNED TO CONFORM TO ENGINEERING STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND THE AMERICAN IRON AND STEEL INDUSTRIES.
5. THE STAMP OF A REGISTERED ENGINEER IS REQUIRED ON ERECTIONS DRAWINGS.
6. CONTRACTOR SHALL PROVIDE ERECTION INFORMATION AND DRAWINGS AS REQUIRED TO DESCRIBE AND DEFINE SYSTEM. DRAWINGS SHALL INCLUDE ANCHOR BOLT SETTING PLAN AND PIECE MARKS ON ALL MAJOR PARTS FOR EASY FIELD IDENTIFICATION.
7. SUBMIT LETTER OF DESIGN CERTIFICATION FOR THE STRUCTURAL FRAMING AND COVERING PANELS OF THE METAL BUILDING SYSTEM. LETTER OF CERTIFICATION TO BE SIGNED AND SEALED BY A GEORGIA REGISTERED PROFESSIONAL ENGINEER.
8. PRIMARY MEMBERS FABRICATED FROM PLATE, PLATE COILS, STRIP MILL PLATE OR FLAT BAR STOCK SHALL HAVE FLANGES AND WEBS JOINED ON ONE SIDE OF THE WEB BY A CONTINUOUS WELDING PROCESS. MINIMUM YIELD STRENGTH: 50,000 PSI.
9. SECONDARY MEMBERS, PURLINS, GIRTS, EAVE STRUTS SHALL BE COLD FORMED FROM STEEL WHICH HAS A MINIMUM YIELD STRENGTH OF 55,000 PSI.
10. TRANSVERSE WIND/SEISMIC FORCES SHALL BE TRANSFERRED TO THE FOUNDATION THROUGH THE USE OF ROD/CABLE "X" BRACING OR PORTAL BRACING IN COMBINATION WITH "X" BRACING IN THE PLANE OF THE ROOF.
11. METAL BUILDING MANUFACTURER MUST BE INTERNATIONAL ACCREDITATION SERVICES AC 472 CERTIFIED, OR OTHER MANUFACTURER APPROVED IN WRITING BY THE ENGINEER. SEE SPECIFICATION SECTION 13120.

**INTERIOR FINISH SCHEDULE**

FLOOR:	SEALED CONCRETE
INTERIOR BUILDING WALLS:	EXTRUTECH PLASTICS INC. P2400 PVC WALL PANELS WITH TRIM AND FLOOR COVE; ALL INTERIOR WALLS TO 8' HEIGHT. WALLS ABOVE 8' HEIGHT TO BE UNFINISHED.
CEILING:	UNFINISHED



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05/28/2024	A	RELEASED FOR BIDS

**BALDWIN WASTEWATER RECLAMATION FACILITY SCREW PRESS BUILDING**  
CITY OF BALDWIN, GEORGIA  
HABERSHAM COUNTY, GEORGIA - G.M.D. 1612

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**ARCHITECTURAL NOTES & MISCELLANEOUS DETAILS**  
**SHEET TITLE**  
DESIGN BY: KLP  
DRAWN BY: KLP  
CHECKED BY: HHM

**GSWCC LEVEL II CERTIFICATION NO.**  
11380

**GEORGIA REGISTERED PROFESSIONAL ENGINEER**  
No. 28435  
5/28/24  
BARRY H. MCGALLISTER, P.E.

**STAMP**

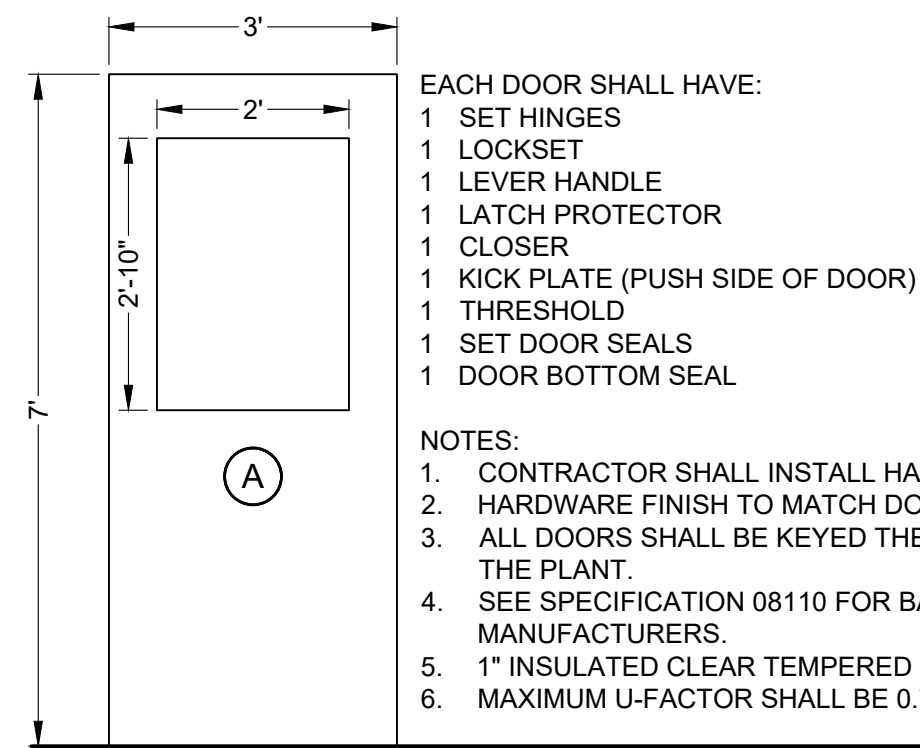
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21056 JOB NUMBER  
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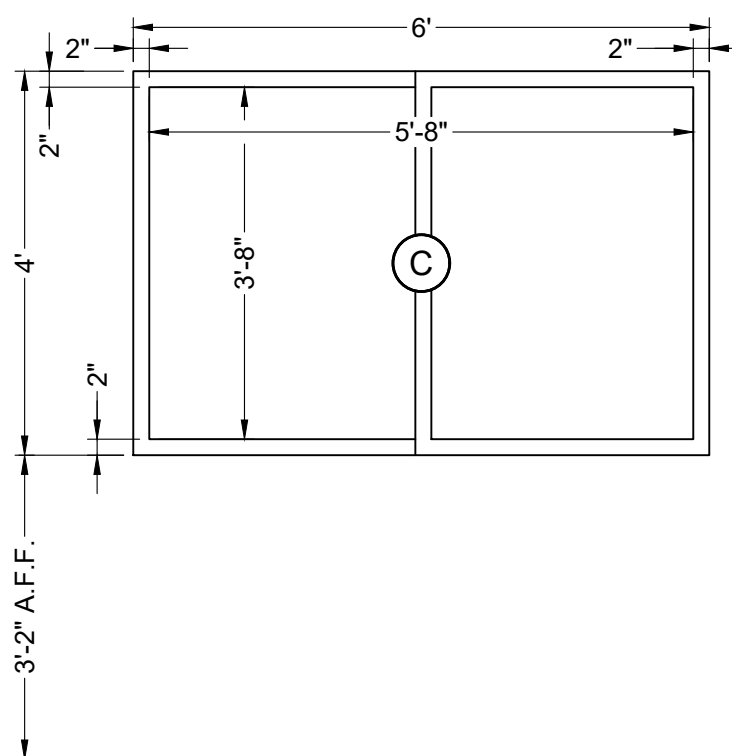
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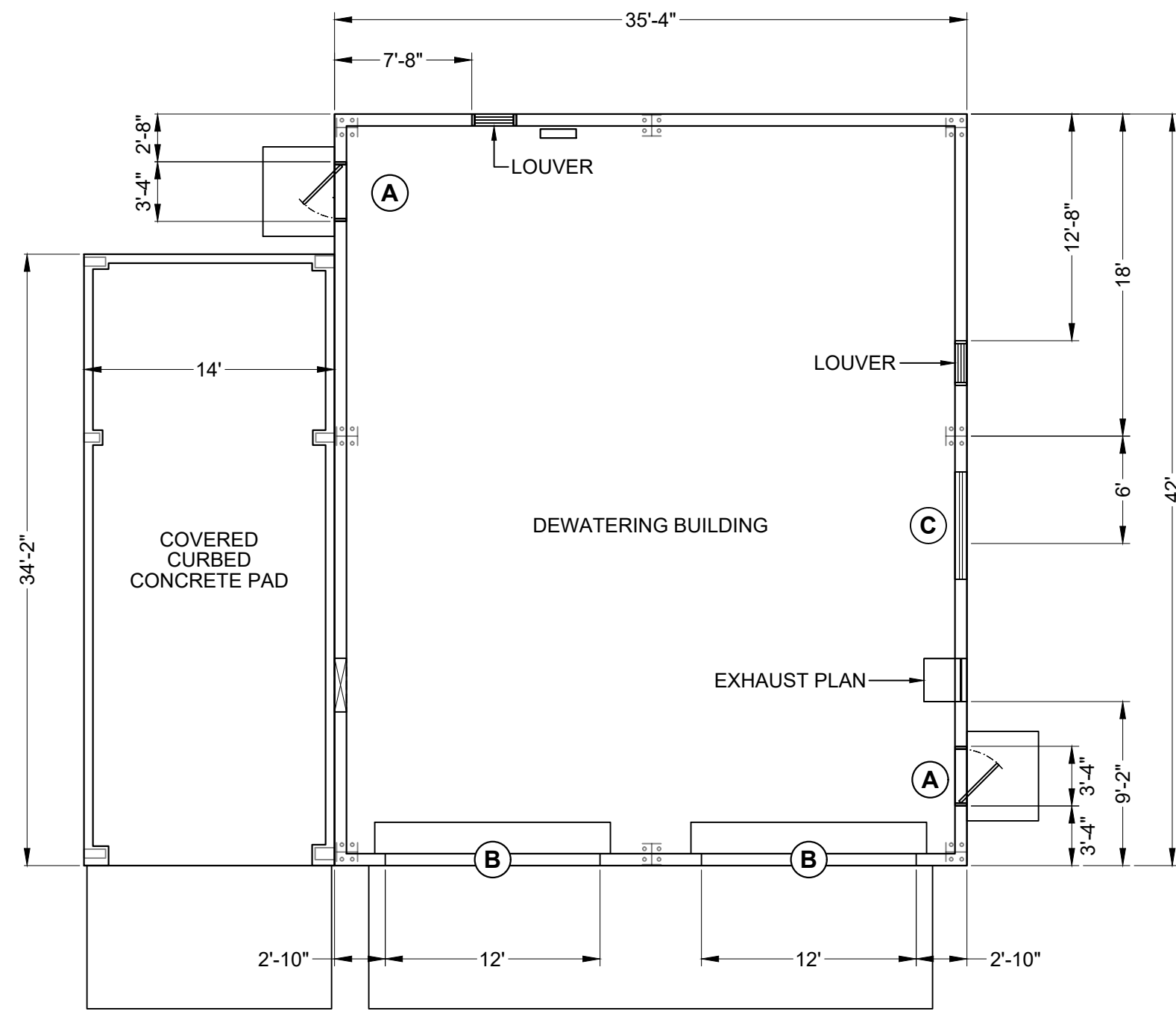
DOOR SCHEDULE						
DOOR	QUANTITY	DOOR TYPE	ROUGH OPENING (W X H)	FACING & FINISH	FRAME MATERIAL	REMARKS
(A)	2	EXTERIOR DOOR: 1 3/4" THICK, FLUSH, INSULATED, 16 GAUGE STEEL, WITH 24"x36" TEMPERED INSULATED GLASS WINDOW	3'-4" X 7'-2"	COLOR SELECTED BY OWNER FROM MFR STANDARD RANGE	16 GAUGE STEEL	FRAME SHALL BE SUITABLE FOR INSTALLATION IN PRE-FABRICATED METAL BUILDING FRAMED OPENING.
(B)	2	COILING OVERHEAD DOOR	12'X12'	PER MFR		SEE COILING ROLL UP DOOR INFORMATION, THIS SHEET.
WINDOW SCHEDULE						
(C)	1	HEAVY COMMERCIAL HORIZONTAL SLIDING ALUMINUM WINDOW WITH PAINTED BAKED ENAMEL FINISH	6' X 4'	COLOR SELECTED BY OWNER FROM MFR STANDARD RANGE	COMMERCIAL GRADE ALUMINUM	FRAME SHALL BE SUITABLE FOR INSTALLATION IN PRE-FABRICATED METAL BUILDING FRAMED OPENING AND INCLUDE: • ALL HARDWARE NECESSARY FOR WINDOW OPERATION • EXTRUDING ALUMINUM RE-SCREENABLE FRAMES WITH 18X16 CHARCOAL ANODIZED ALUMINUM MESH. SCREENS SHALL BE REMOVABLE FROM THE INSIDE AND HELD IN PLACE WITH SPRING LOADED PLUNGERS • 1" SEALED INSULATED GLASS CONSISTING OF 3/16" CLEAN ANNEALED GLASS SHALL BE TINTED. • FINISH COLOR: AS SELECTED BY OWNER CONTRACTOR SHALL FINISH WINDOWS WITH 3/4" PLYWOOD SILL WITH A 4" RANDALL BROTHERS TRIM AROUND THE CASED OPENING • BLINDS SHALL BE INSTALLED ON EXTERIOR WINDOWS



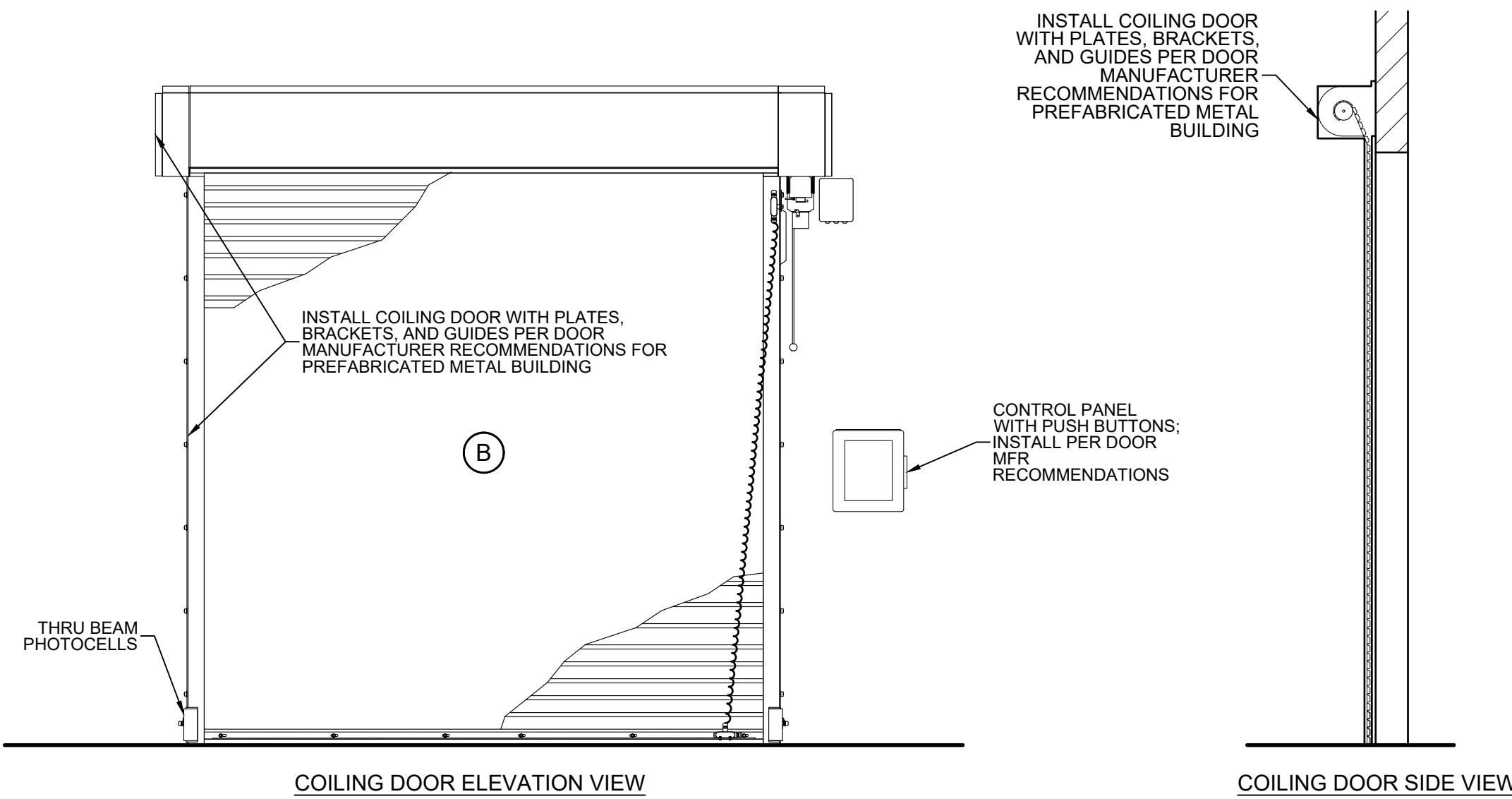
PEDESTRIAN EXTERIOR DOOR INFORMATION



WINDOW INFORMATION

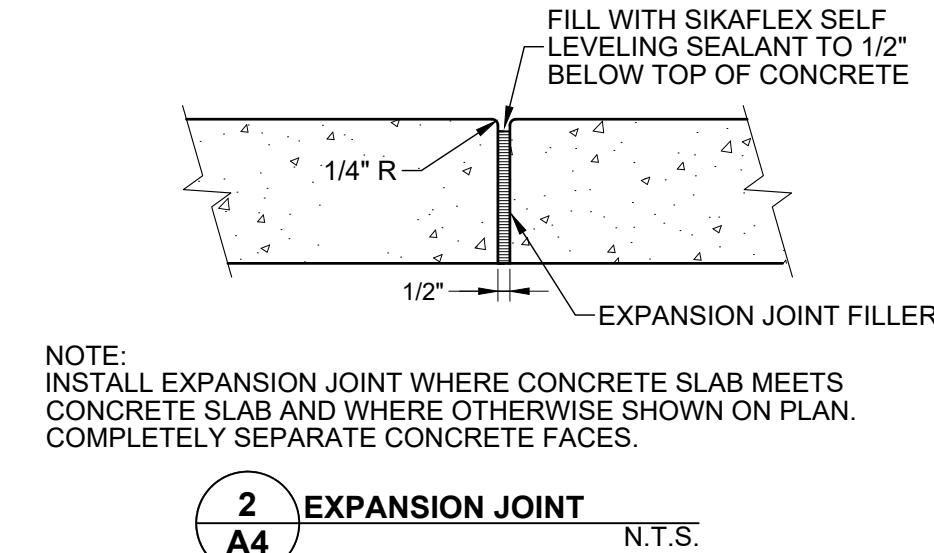
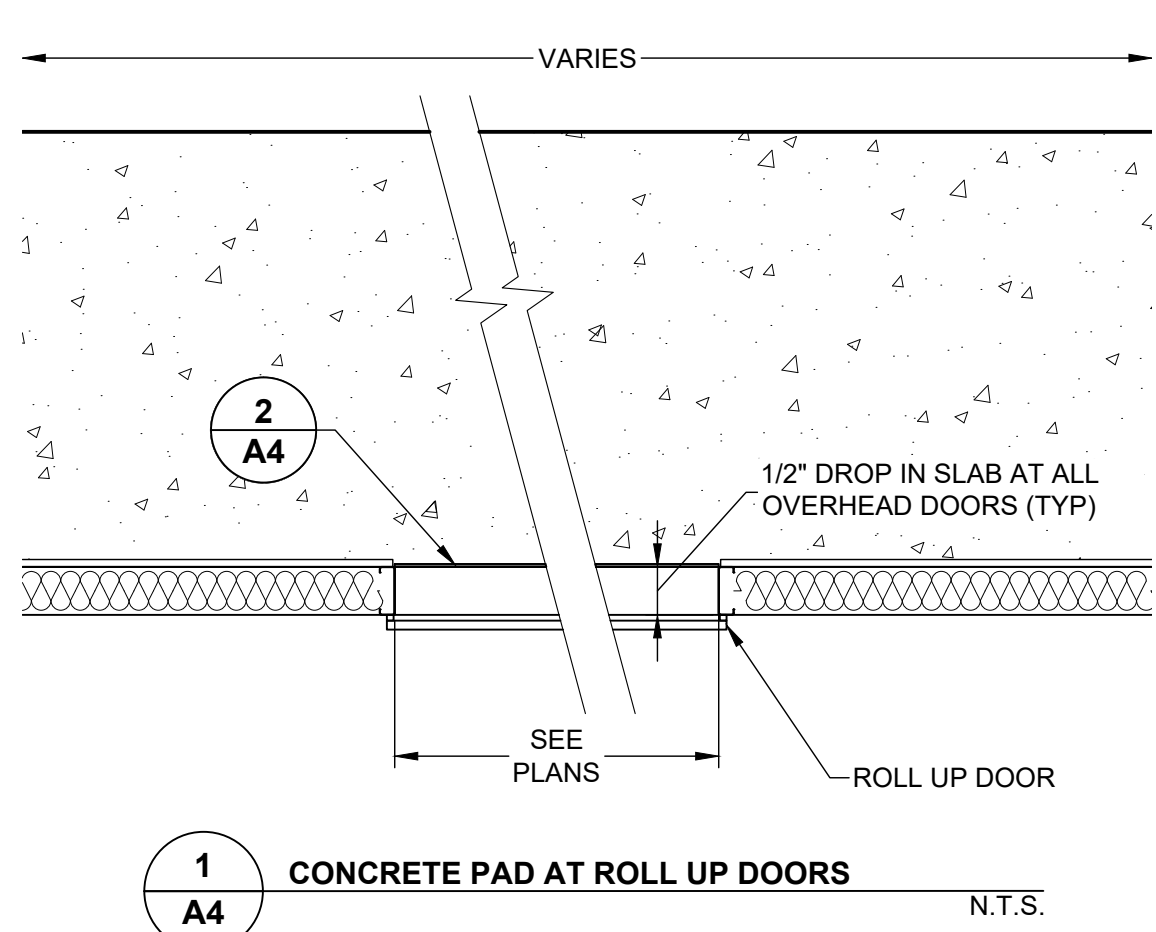


REFERENCE FLOOR PLAN  
 SCALE: 1/8" = 1'-0"



COILING DOOR ELEVATION VIEW

COILING DOOR SIDE VIEW



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ARCHITECTURAL DOORS AND WINDOWS  
 SHEET TITLE  
 DESIGN BY: KLP  
 DRAWN BY: KLP  
 CHECKED BY: HHM  
 HMM

GSWCC LEVEL II CERTIFICATION NO. 11380  
 GEORGIA REGISTERED PROFESSIONAL ENGINEER  
 LARRY H. MCGALLISTER, III  
 5/28/24  
 STAMP

3/09/23 DATE  
 21056 JOB NUMBER  
 z: Projects  
 FILE LOCATION

A4

REVISION PROJECT SHEET

- SYMBOL KEY:**
- THERMOSTAT LOCATION
  - UNIT HEATER
  - EXHAUST FAN
  - HOSE BIBB
  - FLOOR DRAIN
  - FLOOR CLEANOUT

PER MANUFACTURER  
 INCLINED CONVEYOR WEIGHT (EMPTY): 1765 LBS  
 DISTRIBUTION CONVEYOR WEIGHT (EMPTY): 1350 LBS

LOUVER SCHEDULE					
SYMBOL	MAKE	MODEL	SIZE	VOLTAGE	QUANTITY
L1	ARROW OR APPROVED EQUAL	EA-680-DM	24 X 30	120/1 PHASE	2

- LOUVER NOTES:**
- LOUVER SHALL BE ALUMINUM.
  - LOUVER SHALL BE INTAKE STYLE.
  - PROVIDE INSECT SCREEN.
  - PROVIDE MOTOR OPERATED DAMPER.
  - PROVIDE CORROSION RESISTANT COATING.

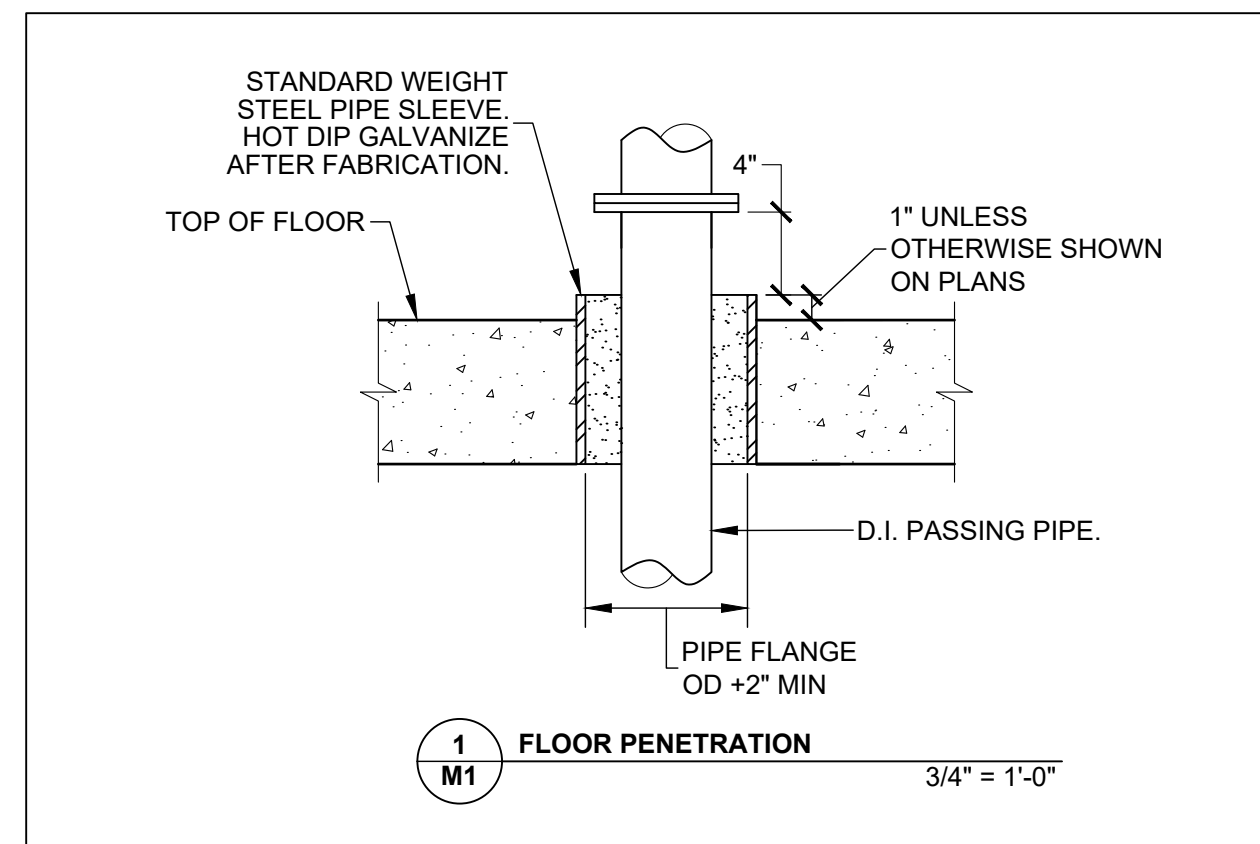
HEATER SCHEDULE							
SYMBOL	MAKE	MODEL	KW	CONTROLS	MOUNTING	VOLTAGE	QUANTITY
UH-1	TRANE OR APPROVED EQUAL	UHEC-10	10	INTERNAL	HORIZONTAL THROW	480/3 PHASE	2

- HEATER NOTES:**
- MOUNT BOTTOM OF UNIT MIN. 6'-6" AFF.
  - STANDARD TYPE NON-EXPLOSION PROOF HEATER.

FAN SCHEDULE									
SYMBOL	MAKE	MODEL	C.F.M.	R.P.M.	S.P.	MOTOR HP	DRIVE	VOLTAGE	QUANTITY
F1	PENN OR APPROVED EQUAL	BLL24	3500	825	0.25	1/2	BELT	460/3 PHASE	1

- FAN NOTES:**
- PROVIDE REAR GUARD, BACKDRAFT DAMPER, WALL SHUTTER AND WALL SLEEVE.
  - CONTROL FROM THERMOSTAT.
  - PROVIDE WITH CORROSION RESISTANT COATING.
  - PROVIDE INSECT SCREEN AND BIRD SCREEN.
  - INTERLOCK FAN WITH WALL LOUVERS.

KEY NOTES	
1	PROPOSED HUBER SCREW PRESS (Q-PRESS 620.2)
2	FUTURE HUBER SCREW PRESS (Q-PRESS 620.2) SHOWN FOR REFERENCE ONLY
3	PROPOSED AIR COMPRESSOR
4	PROPOSED FLOCCULATION REACTOR DUCTILE IRON PIPING
5	FUTURE FLOCCULATION REACTOR; SHOWN FOR REFERENCE ONLY
6	PROPOSED INDUCTIVE FLOW METER
7	PROPOSED PROGRESSIVE CAVITY PUMP NETZCH NM045BY01L
8	PROPOSED POLYMER BLENDING STATION; FIELD LOCATE
9	PROPOSED POLYMER DOSING & MIXING APPLIANCE ASSEMBLY
10	FUTURE POLYMER DOSING & MIXING APPLIANCE ASSEMBLY; SHOWN FOR REFERENCE ONLY
11	CONTROL PANEL; FIELD LOCATE
12	FUTURE CONTROL PANEL; FIELD LOCATE
13	SCREW PRESS INCLINED CONVEYOR
14	FUTURE SCREW PRESS CONVEYOR
15	OVERHEAD DISTRIBUTION CONVEYOR
A	PEDESTRIAN EXTERIOR DOOR
B	12' X 12' COILING OVERHEAD DOOR
C	6' X 4' HORIZONTAL SLIDING ALUMINUM WINDOW



**SHEET NOTES:**

- ALL ABOVE GROUND PIPING SHALL BE PAINTED AND COLOR CODED PER SECTION 09900 OF THE SPECIFICATIONS.
- PIPE LABELS AND FLOW DIRECTIONAL ARROWS ARE REQD ON ALL ABOVE GROUND PIPING. LETTERING HEIGHT AND COLORS OF PIPE MARKING LABELS SHALL BE PER ANSI A13.1-1981 SCHEME FOR IDENTIFICATION OF PIPING SYSTEMS.
- PIPE MARKING LABELS SHALL BE POSITIONED ON PIPES SO THEY CAN BE EASILY READ AND LOCATED NEAR VALVES, BRANCHES, WHERE CHANGE IN DIRECTION OCCURS, OR ENTRY/RE-ENTRY POINTS THROUGH WALL OR FLOORS, AND ON STRAIGHT SEGMENTS WITH SPACING BETWEEN LABELS THAT ALLOWS FOR EASY IDENTIFICATION.
- ALL FLOOR PIPE PENETRATIONS REQUIRE FLOOR SLEEVE PER DETAIL 1, SHEET M1.
- DRAIN LINES AND SUMP SHALL BE LOCATED TO AVOID ANY CONFLICT WITH THE NEW AND FUTURE SCREW PRESS EQUIPMENT. VERIFY LOCATION OF SCREW PRESS EQUIPMENT WITH THE MANUFACTURER.
- CONTRACTOR SHALL INSTALL 2" WATERLINE AND REQD PIPING AND CONNECTION FOR FUTURE SCREW PRESS WATER SUPPLY. COORDINATE WITH EQUIP MFR.
- CONTRACTOR SHALL INSTALL 1" WATERLINE AND OTHER REQD PIPING TO POLYMER BLEND SYSTEM. INSTALL POLYMER BLEND SYSTEM WATER PIPING PER EQUIPMENT MFR REQUIREMENTS.
- EXHAUST FANS SHALL BE WIRED SUCH THAT WHEN EXHAUST FANS TURN ON/OFF LOUVERS OPEN/CLOSE.
- EXHAUST FANS AND HEATERS SHALL BE CONTROLLED BY A WALL MOUNTED THERMOSTAT. A MANUAL ON/OFF SWITCH SHALL ALSO CONTROL EXHAUST FANS.
- EXHAUST FANS SHALL BE MOUNTED WITH BOTTOM 9'-6" A.F.F.
- LOUVERS SHALL BE INSTALLED WITH BOTTOM 6'-0" A.F.F.
- LOUVERS SHALL HAVE INSECT SCREENS.
- CONTRACTOR SHALL INSTALL 1" PVC POLYMER FEED LINE TO POLYMER INJECTION RING PER EQUIPMENT MANUFACTURER REQUIREMENTS.
- CONTRACTOR SHALL INSTALL A 4"x2" TEE IN THE FILTRATE LINE WITH A 1/2" BRASS BALL VALVE TO BE USED FOR FLUSHING AND SAMPLING PER MANUFACTURER RECOMMENDATIONS.
- SEE SHEET M3 FOR POLYMER FEED LINE AND WATER LINE INFORMATION.

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DATE: 05/28/2024  
 NO: 1A  
 DESCRIPTION: RELEASED FOR BIDS

**BALDWIN WASTEWATER RECLAMATION FACILITY  
 SCREW PRESS BUILDING**  
 CITY OF BALDWIN, GEORGIA  
 HABERSHAM COUNTY, GEORGIA - G.M.D. 1612

**EMI ENGINEERING MANAGEMENT**  
 Experience • Trust • Solutions  
 303 Swanson Drive, Lawrenceville, GA 30043  
 Phone 770-962-1357  
 www.eminc.biz

SCREW PRESS EQUIPMENT AND PIPING  
 SHEET TITLE  
 DESIGN BY: KLP  
 DRAWN BY: KLP  
 CHECKED BY: HHM  
 DATE: 3/09/23  
 JOB NUMBER: 21056  
 z: projects  
 FILE LOCATION: z: projects

GSWCC LEVEL II CERTIFICATION NO. 11380

**GEORGIA REGISTERED PROFESSIONAL ENGINEER**  
 HARRY H. MCGALLISTER, JR.  
 No. 28435  
 5/23/24

**STAMP**

3/09/23 DATE  
 21056 JOB NUMBER  
 z: projects  
 FILE LOCATION

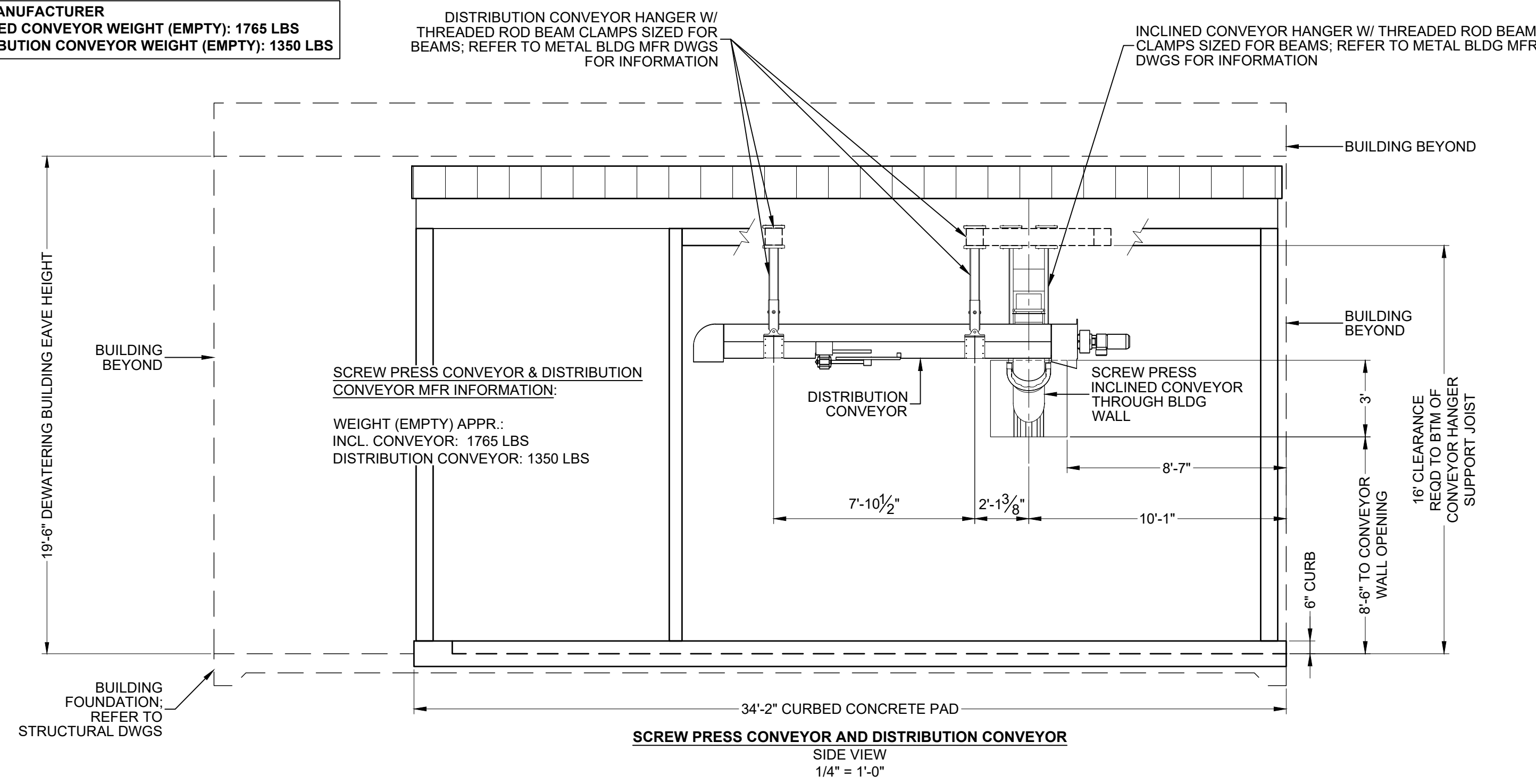
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PATH & FILE: Z:\PROJECTS\21056 Baldwin Solids Handling Building\Bldg Phase\BPP-Released for Bids\21056 SCREW PRESS BLDG BID SET.dwg

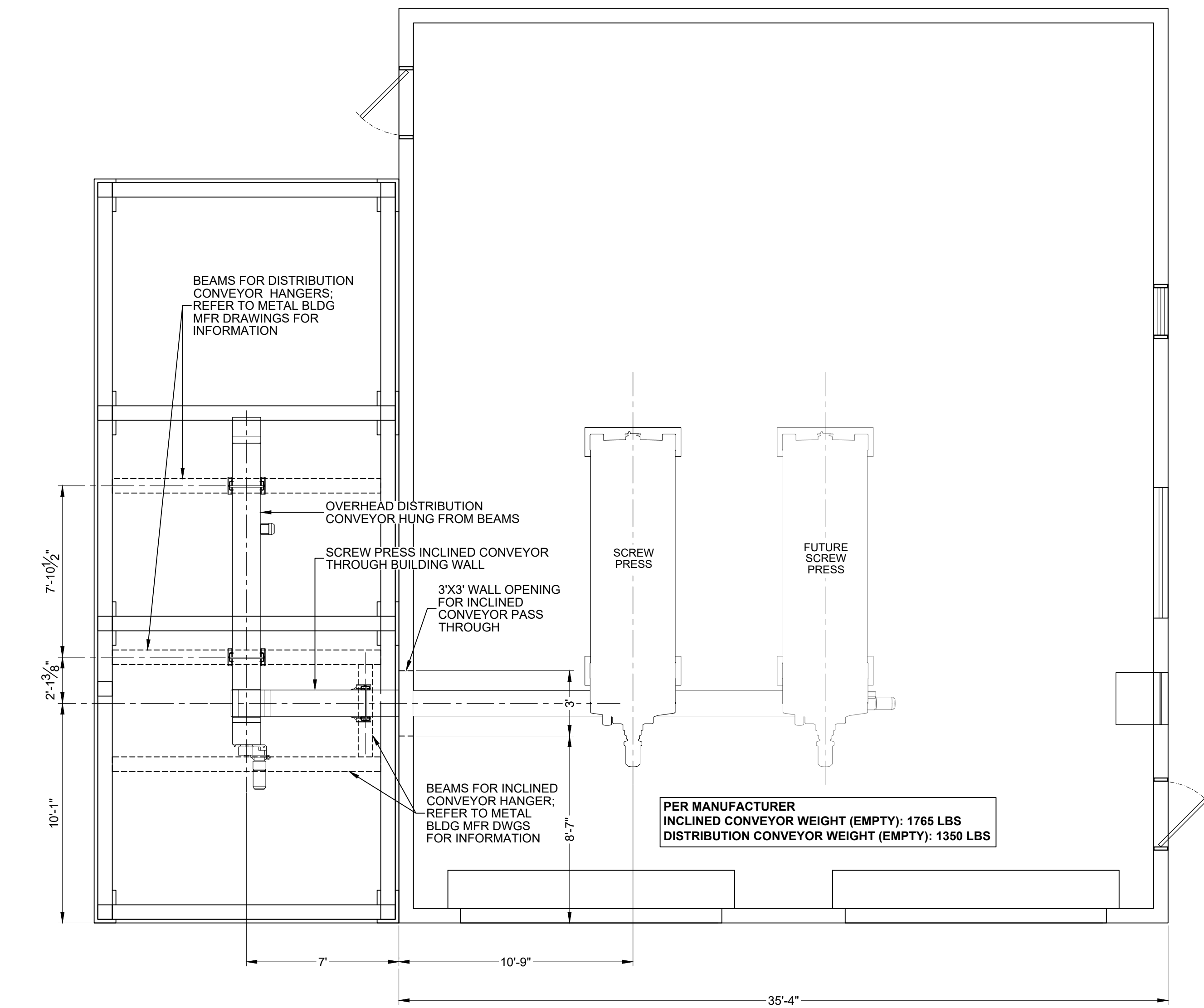
**SHEET**

PLAN VIEW  
 SCALE: 3/8" = 1'-0"

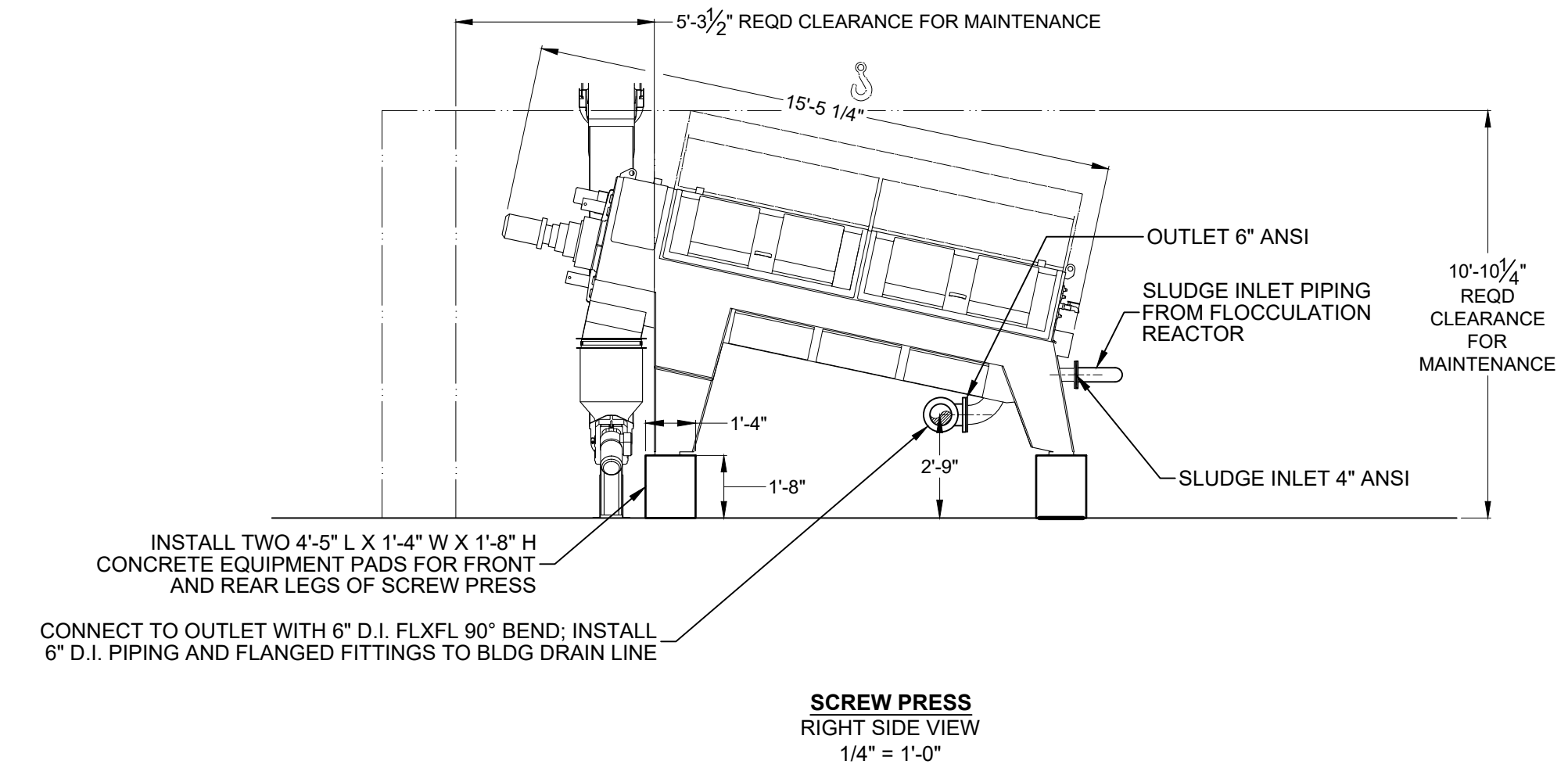
PER MANUFACTURER  
 INCLINED CONVEYOR WEIGHT (EMPTY): 1765 LBS  
 DISTRIBUTION CONVEYOR WEIGHT (EMPTY): 1350 LBS



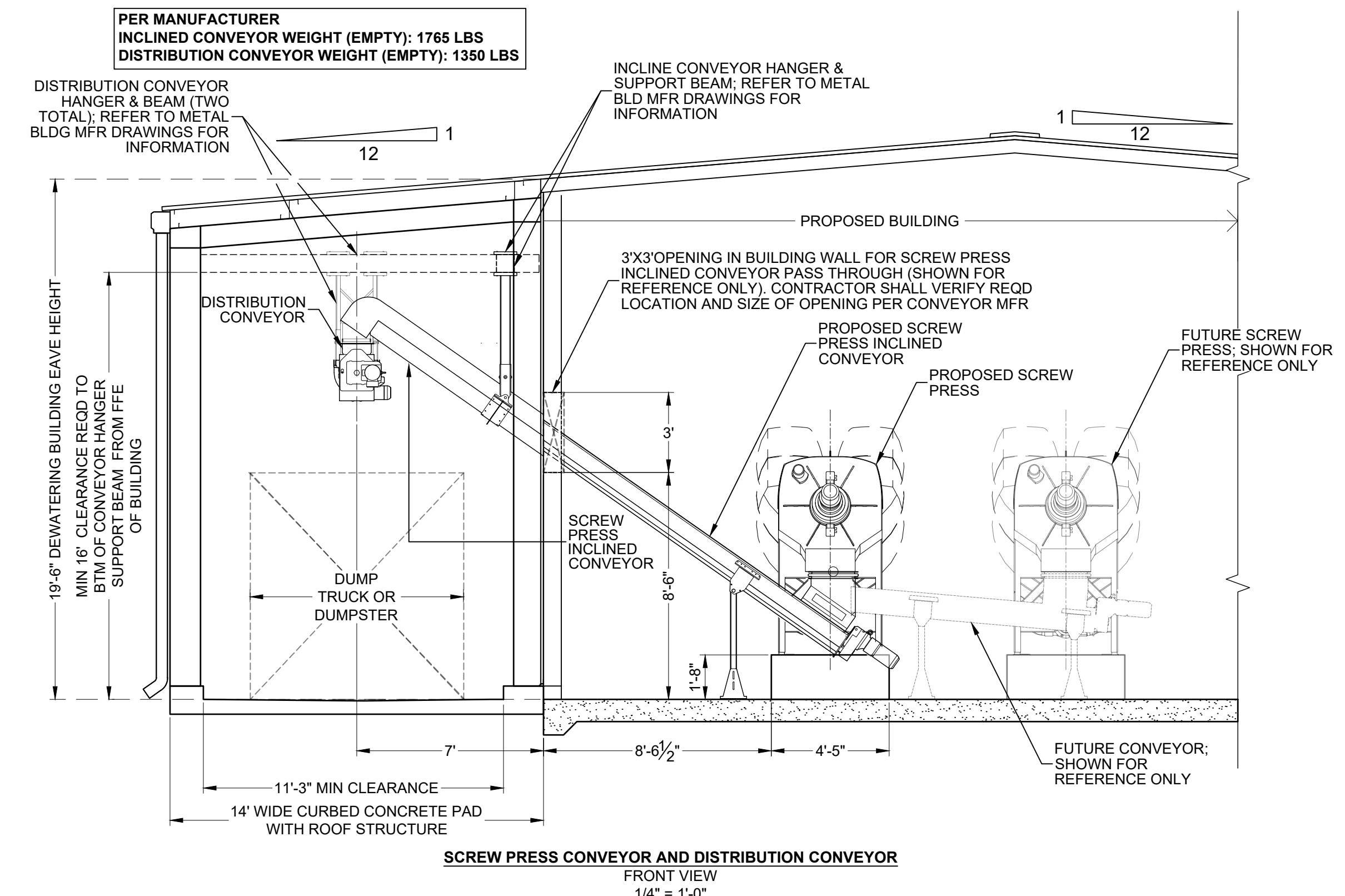
**SCREW PRESS CONVEYOR AND DISTRIBUTION CONVEYOR**  
 SIDE VIEW  
 1/4" = 1'-0"



**SCREW PRESS CONVEYOR AND DISTRIBUTION CONVEYOR**  
 PLAN VIEW  
 1/4" = 1'-0"



**SCREW PRESS**  
 RIGHT SIDE VIEW  
 1/4" = 1'-0"



**SCREW PRESS CONVEYOR AND DISTRIBUTION CONVEYOR**  
 FRONT VIEW  
 1/4" = 1'-0"

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DATE	NO.	DESCRIPTION
05/28/2024	A	RELEASED FOR BIDS

**BALDWIN WASTEWATER RECLAMATION FACILITY**  
**SCREW PRESS BUILDING**  
 CITY OF BALDWIN, GEORGIA  
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DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	HHM

GSWCC LEVEL II CERTIFICATION NO. 11380  
  
**STAMP**

3/09/23	21056	z: Projects
DATE	JOB NUMBER	FILE LOCATION

**M2**

REVISION PROJECT SHEET

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DATE	NO.	DESCRIPTION
05/28/2024	A	RELEASED FOR BIDS

**BALDWIN WASTEWATER RECLAMATION FACILITY SCREW PRESS BUILDING**  
 CITY OF BALDWIN, GEORGIA  
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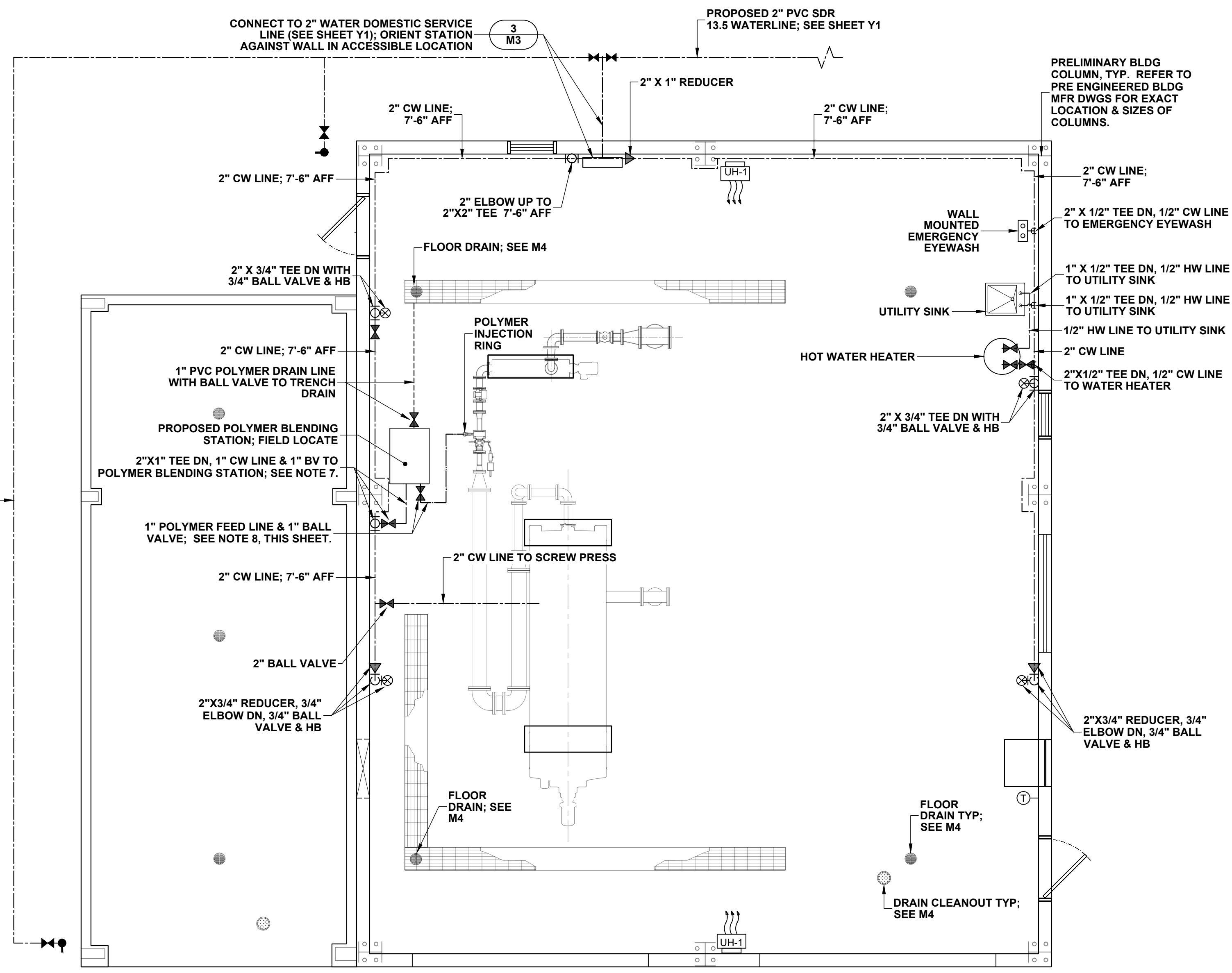
DOMESTIC WATER & CHEMICAL FEED LINES  
**SHEET TITLE**  
 DESIGN BY: KLP  
 DRAWN BY: KLP  
 CHECKED BY: HHM  
 HMM

GSWCC LEVEL II CERTIFICATION NO. 11380  
  
**STAMP**

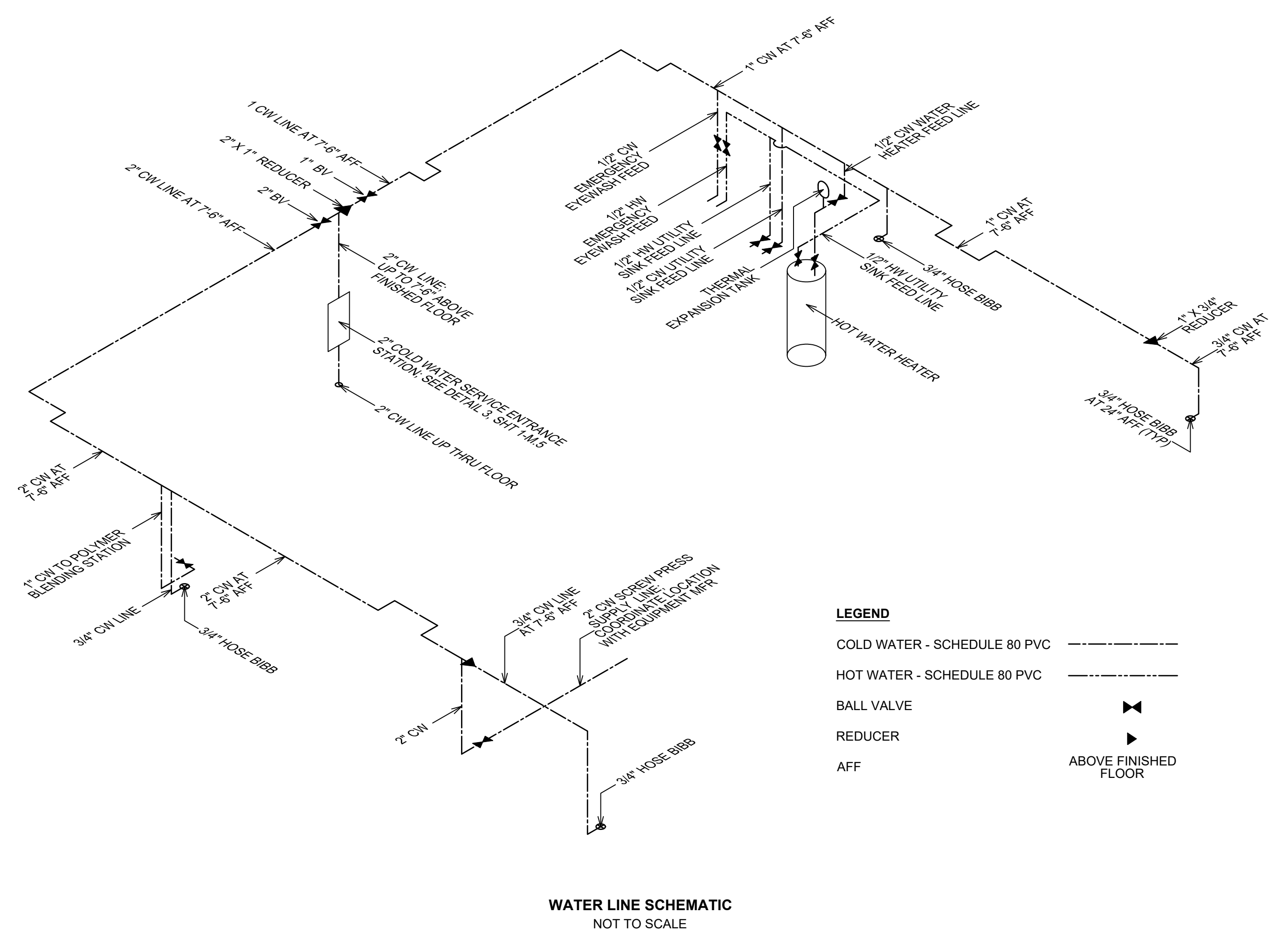
3/09/23 DATE  
 21056 JOB NUMBER  
 z: projects z: LOCATION  
 FILE LOCATION

**M3**  
**SHEET**

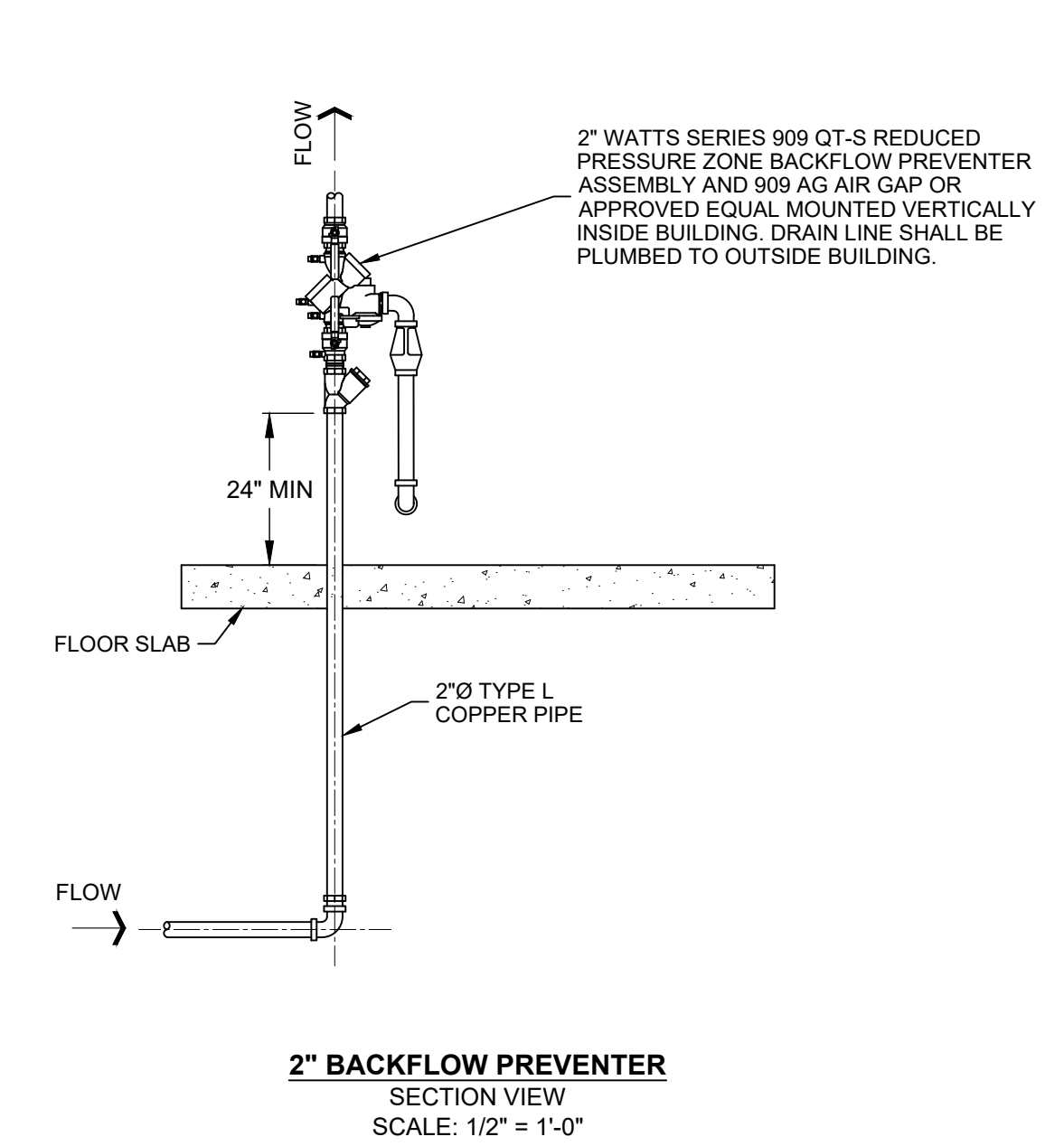
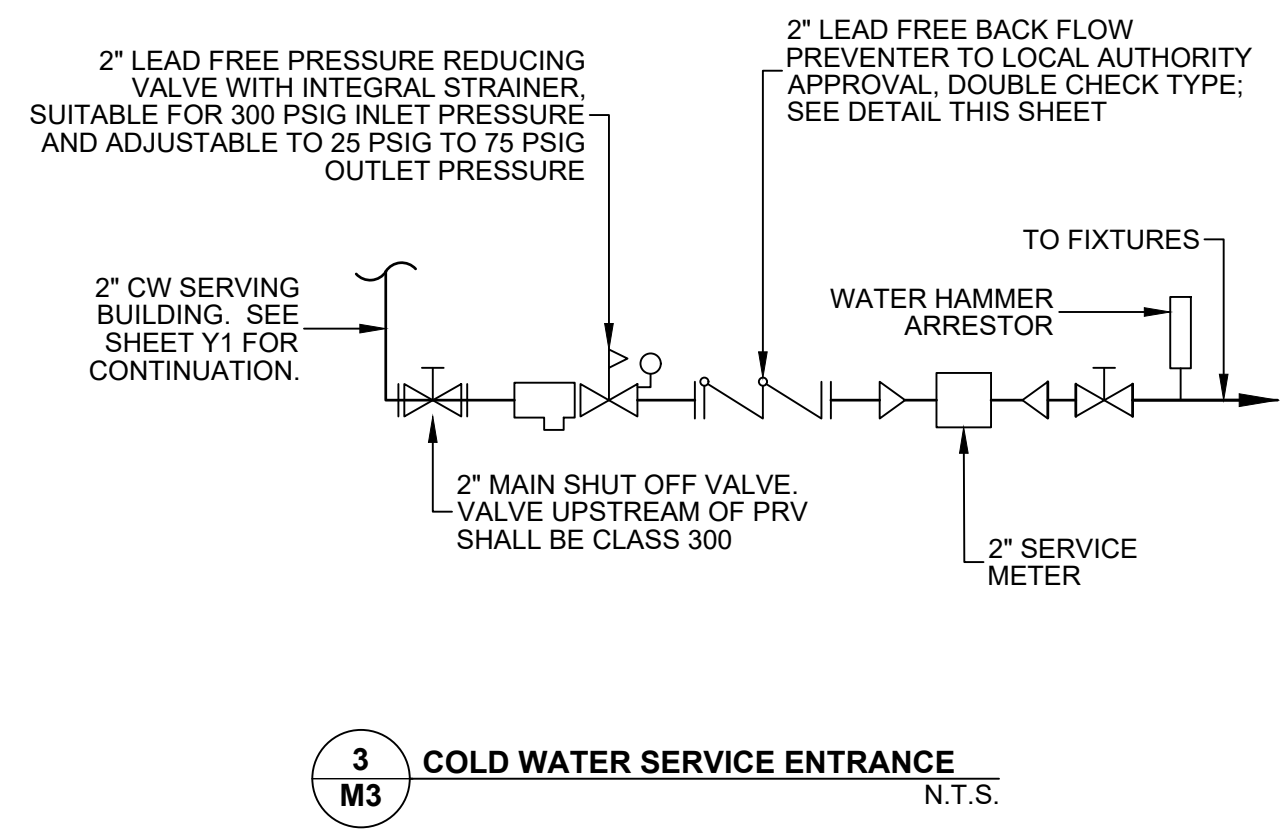
REVISION PROJECT



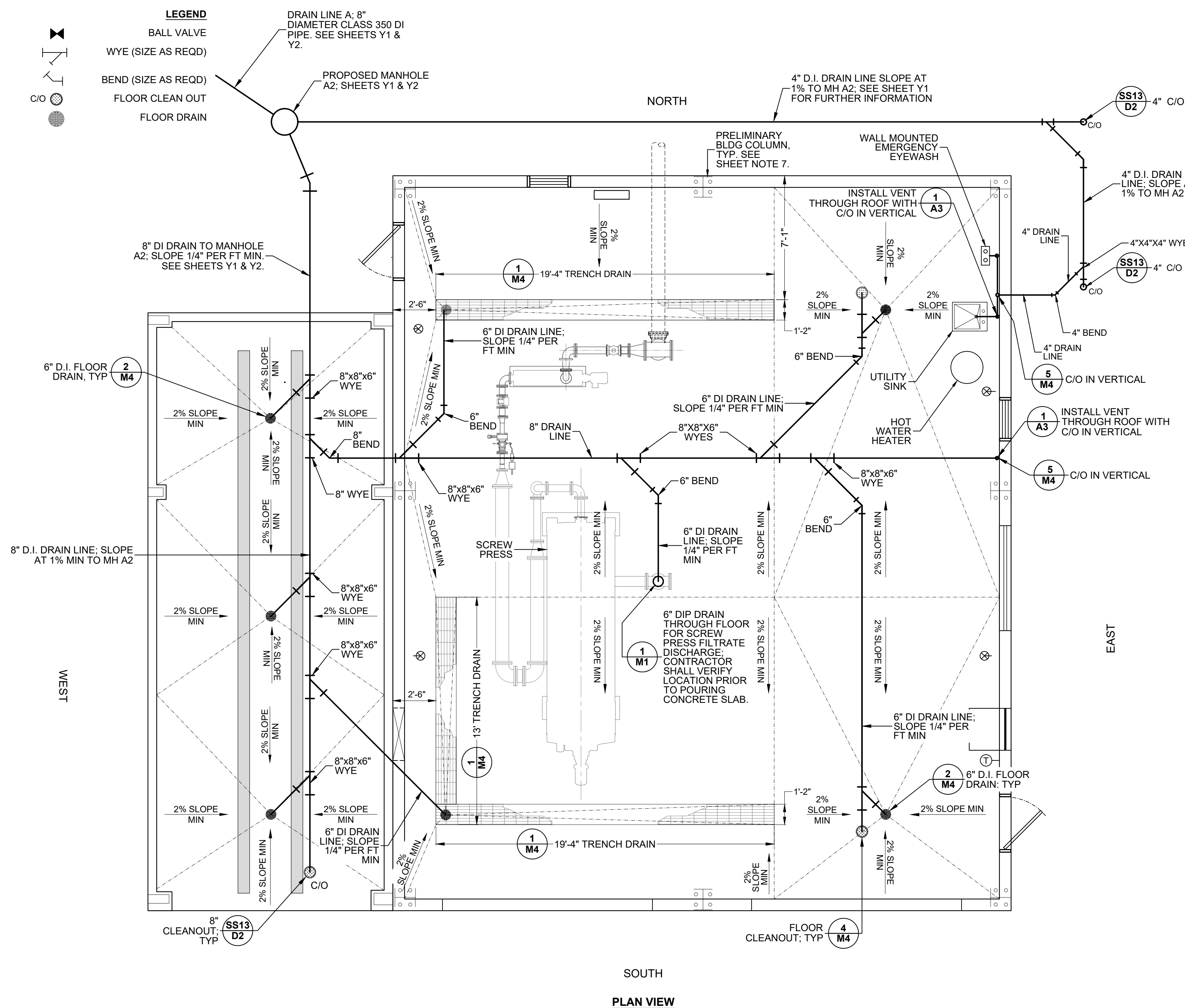
**BUILDING WATER LINE & CHEMICAL FEED LINES PLAN**  
 SCALE: 1/4" = 1'-0"



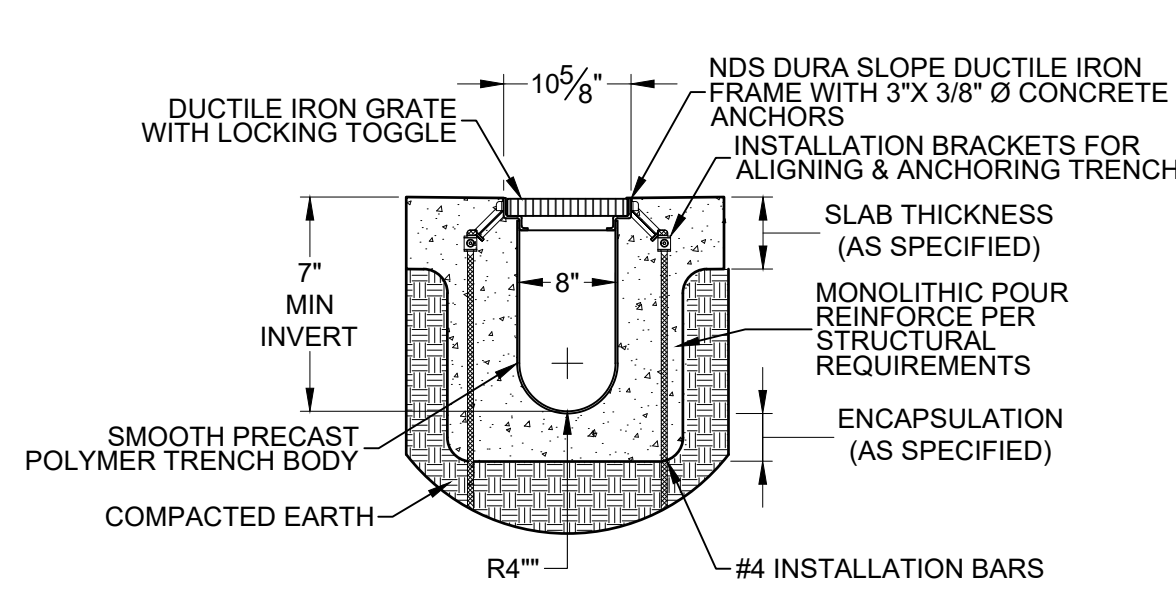
**LEGEND**  
 COLD WATER - SCHEDULE 80 PVC  
 HOT WATER - SCHEDULE 80 PVC  
 BALL VALVE  
 REDUCER  
 AFF ABOVE FINISHED FLOOR



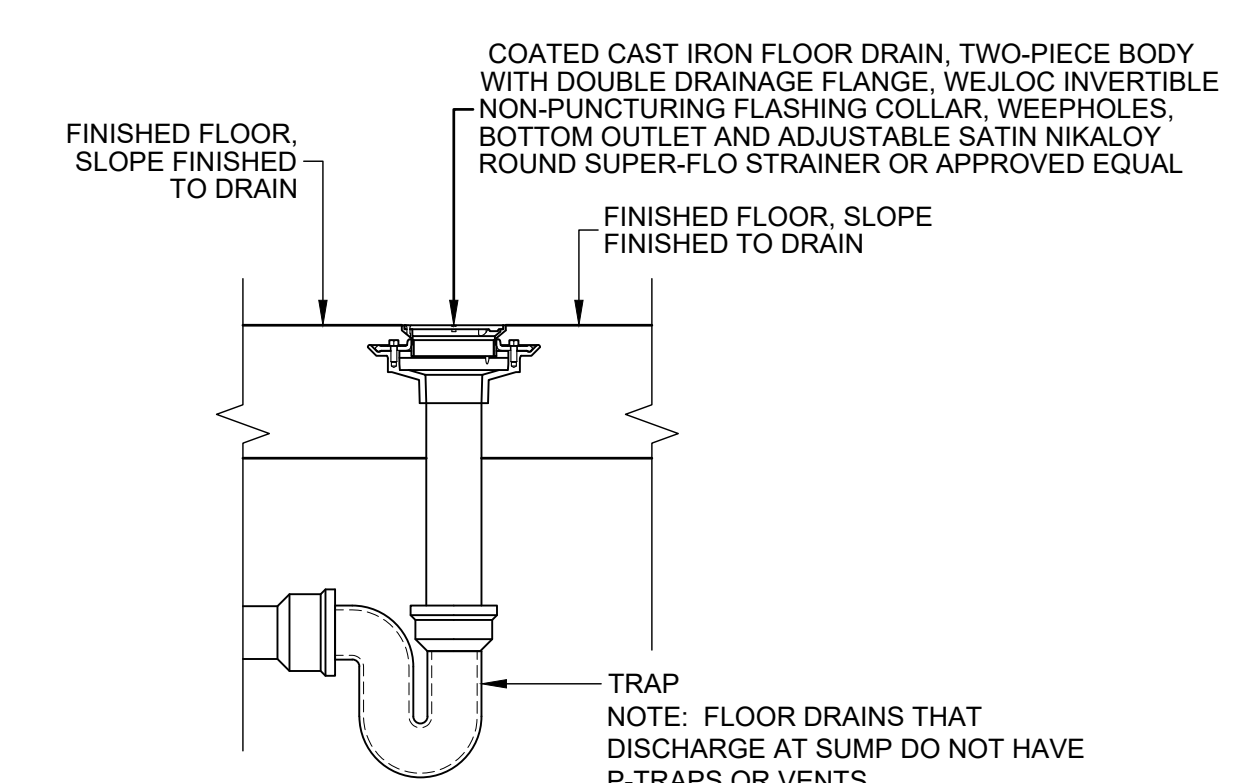
- PLAN NOTES:**
- ALL ABOVE GROUND PIPING SHALL BE PAINTED AND COLOR CODED PER SECTION 09900 OF THE SPECIFICATIONS.
  - PIPE LABELS AND FLOW DIRECTIONAL ARROWS ARE REQD ON ALL ABOVE GROUND PIPING. LETTERING HEIGHT AND COLORS OF PIPE MARKING LABELS SHALL BE PER ANSI/A13.1-1981 SCHEME FOR IDENTIFICATION OF PIPING SYSTEMS.
  - PIPE MARKING LABELS SHALL BE POSITIONED ON PIPES SO THEY CAN BE EASILY READ AND LOCATED NEAR VALVES, BRANCHES, WHERE CHANGE IN DIRECTION OCCURS, OR ENTRY/RE-ENTRY POINTS THROUGH WALL OR FLOORS, AND ON STRAIGHT SEGMENTS WITH SPACING BETWEEN LABELS THAT ALLOWS FOR EASY IDENTIFICATION.
  - ALL FLOOR PIPE PENETRATIONS REQUIRE FLOOR SLEEVE PER DETAIL 1, SHEET M1.
  - DRAIN LINES AND SUMP SHALL BE LOCATED TO AVOID ANY CONFLICT WITH THE NEW AND FUTURE SCREW PRESS EQUIPMENT. VERIFY LOCATION OF SCREW PRESS EQUIPMENT WITH THE MANUFACTURER.
  - CONTRACTOR SHALL INSTALL 2" WATERLINE AND REQD PIPING AND CONNECTION FOR SCREW PRESS WATER SUPPLY. COORDINATE WITH EQUIP MFR.
  - CONTRACTOR SHALL INSTALL 1" WATERLINE AND REQD PIPING TO POLYMER BLEND SYSTEM. INSTALL POLYMER BLEND SYSTEM WATER PIPING PER EQUIPMENT MFR REQUIREMENTS.
  - CONTRACTOR SHALL INSTALL 1" PVC POLYMER FEED LINE TO POLYMER INJECTION RING PER EQUIPMENT MANUFACTURER REQUIREMENTS.
  - ALL DOMESTIC WATER BRANCH PIPING SERVING MORE THAN ONE FIXTURE SHALL BE VALVED AT MAINLINE TAKE OFF.
  - FURNISH AND INSTALL HOSE BIBBS AND WALL HYDRANTS 24" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
  - ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE PLACED ON THE INTERIOR SIDE OF THE WALL. WALL INSULATION SHALL BE PLACED ON THE EXTERIOR SIDE OF THE PIPING.



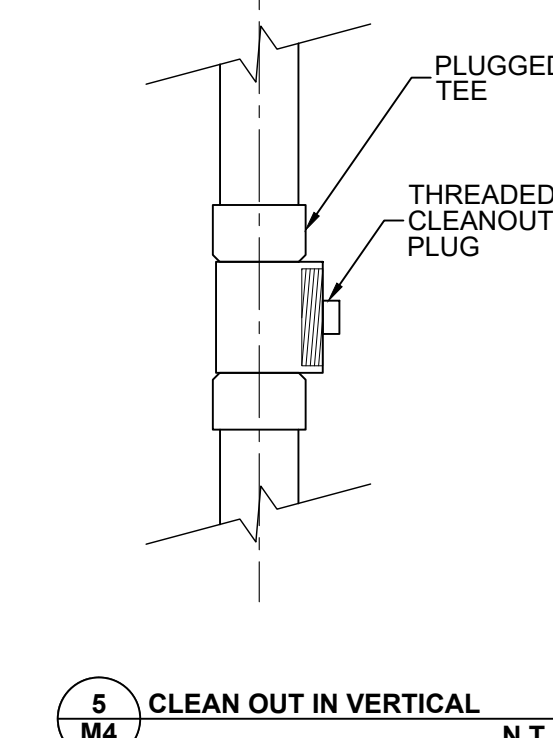
- SHEET NOTES:**
- ALL ABOVE GROUND PIPING SHALL BE PAINTED AND COLOR CODED PER SECTION 09900 OF THE SPECIFICATIONS.
  - PIPE LABELS AND FLOW DIRECTIONAL ARROWS ARE REQD ON ALL ABOVE GROUND PIPING. LETTERING HEIGHT AND COLORS OF PIPE MARKING LABELS SHALL BE PER ANSI A13.1-1981 SCHEME FOR IDENTIFICATION OF PIPING SYSTEMS.
  - PIPE MARKING LABELS SHALL BE POSITIONED ON PIPES SO THEY CAN BE EASILY READ AND LOCATED NEAR VALVES, BRANCHES, WHERE CHANGE IN DIRECTION OCCURS, OR ENTRY/RE-ENTRY POINTS THROUGH WALL OR FLOORS, AND ON STRAIGHT SEGMENTS WITH SPACING BETWEEN LABELS THAT ALLOWS FOR EASY IDENTIFICATION.
  - ALL FLOOR PIPE PENETRATIONS REQUIRE FLOOR SLEEVE PER DETAIL 15621, SHEET D2.
  - DRAIN LINES AND SUMP SHALL BE LOCATED TO AVOID ANY CONFLICT WITH THE NEW AND FUTURE SCREW PRESS EQUIPMENT. VERIFY LOCATION OF SCREW PRESS EQUIPMENT WITH THE MANUFACTURER.
  - CONTRACTOR SHALL INSTALL A 4"x2" TEE IN THE FILTRATE LINE WITH A 1/2" BRASS BALL VALVE TO BE USED FOR FLUSHING AND SAMPLING PER MANUFACTURER RECOMMENDATIONS.
  - PRELIMINARY BUILDING COLUMNS ARE SHOWN FOR REFERENCE ONLY. VERIFY EXACT LOCATIONS AND SIZES OF BUILDING COLUMNS WITH PRE ENGINEERED BUILDING MANUFACTURER FINAL APPROVED DRAWINGS.
  - SLOPE CONCRETE FLOOR A MINIMUM OF 2% TO TRENCH AND FLOOR DRAINS.



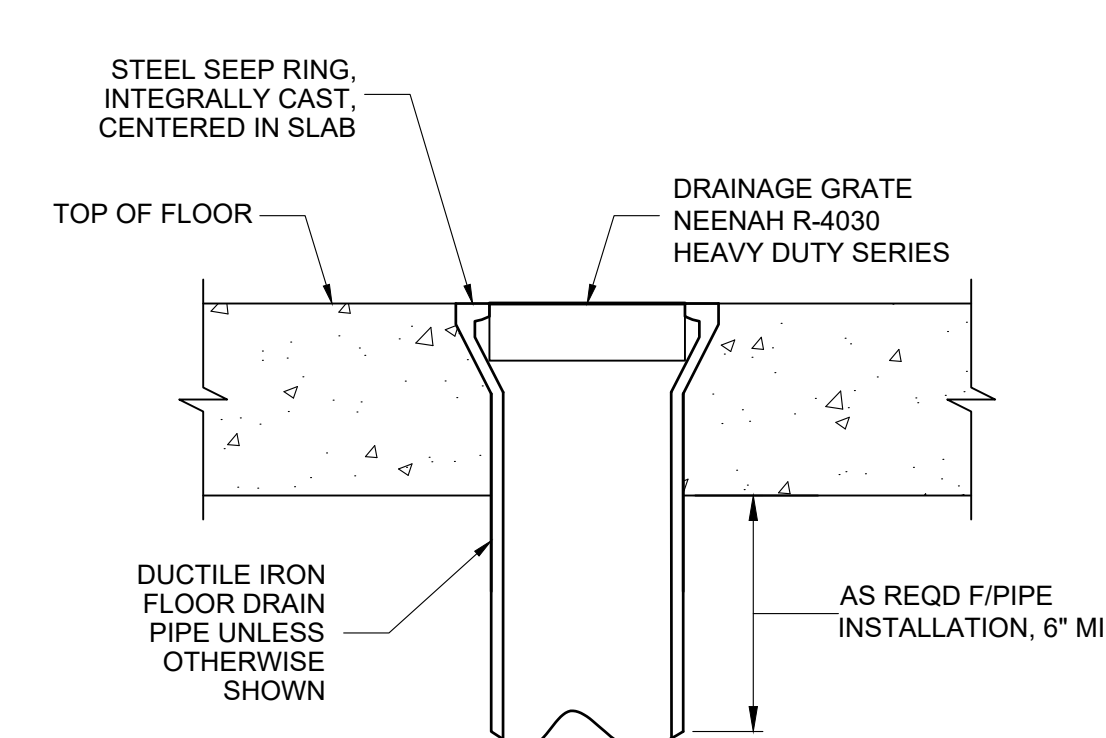
1 TRENCH DRAIN WITH GRATING N.T.S.



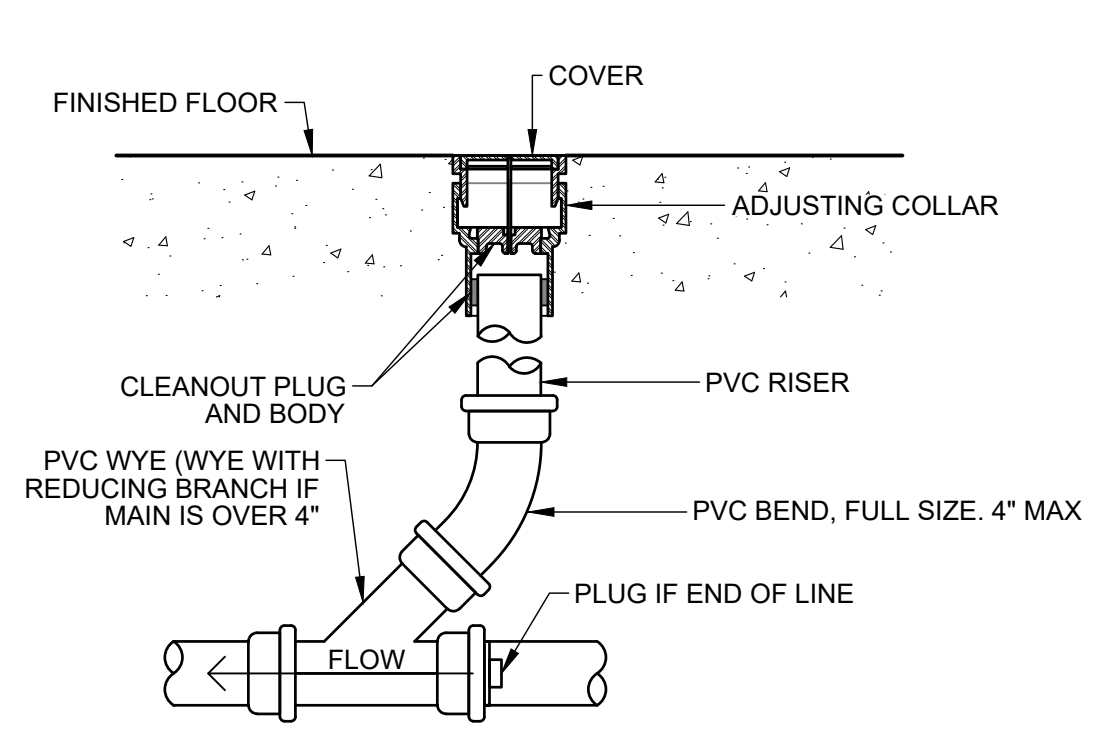
2 FLOOR DRAIN DETAIL N.T.S.



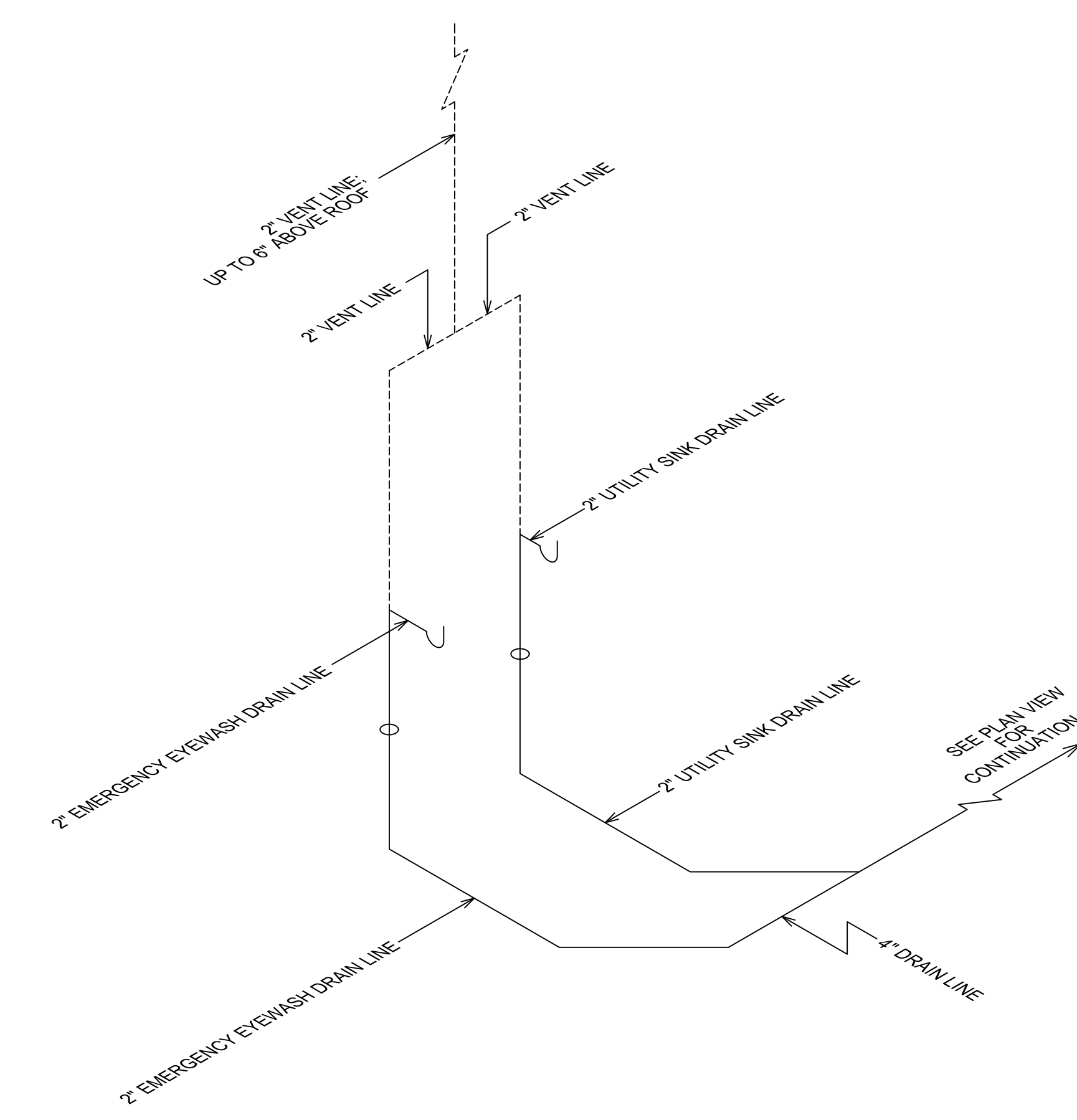
5 CLEAN OUT IN VERTICAL N.T.S.



3 FLOOR DRAINAGE GRATE N.T.S.



4 FLOOR CLEANOUT N.T.S.



EMERGENCY EYEWASH AND UTILITY SINK DRAIN LINE SCHEMATIC NOT TO SCALE

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DATE: 05/28/2024  
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**BALDWIN WASTEWATER RECLAMATION FACILITY SCREW PRESS BUILDING**  
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PLUMBING & FLOOR DRAIN LINES PLAN  
SHEET TITLE  
DESIGN BY: KLP  
DRAWN BY: KLP  
CHECKED BY: HHM

GSWCC LEVEL II CERTIFICATION NO. 11380  
  
**STAMP**

DATE: 3/09/23  
JOB NUMBER: 21056  
FILE LOCATION: z:projects  
M4

PATH & FILE: Z:\PROJECTS\121056 Baldwin Solids Handling Building\Bldg Phase\BPP-Released for Bids\21056 SCREW PRESS BLDG BID SET.dwg

REVISION

PROJECT

SHEET



DESIGN:

BUILDING CODE: INTERNATIONAL BUILDING CODE 2018 (IBC) W/GEORGIA STATE AMENDMENTS

WIND:

V<sub>ult</sub>: 107 MPH
V<sub>avg</sub>: 82.9 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: B
INTERNAL PRESSURE COEFFICIENT: ±0.18

COMPONENTS AND CLADDING ELEMENTS NOT SPECIFICALLY DESIGNED ON THESE DRAWINGS SHALL BE DESIGNED ACCORDING TO THE WIND PRESSURES STIPULATED BY IBC 2018 FOR THE TRIBUTARY AREA OF THE SPECIFIC COMPONENT.

SEISMIC:

RISK CATEGORY II
I<sub>e</sub> = 1.0 I<sub>s</sub> = 1.0
S<sub>DS</sub> = 0.236 S<sub>1</sub> = 0.092
SITE CLASS = D
S<sub>DS</sub> = 0.252 S<sub>1</sub> = 0.147
SEISMIC DESIGN CATEGORY = C

BASE SEISMIC FORCE-RESISTING SYSTEM(S):
- BY METAL BUILDING MANUFACTURER

SNOW:

GROUND SNOW LOAD = 10 PSF

SHEET INDEX:

Table with 2 columns: NO, DESCRIPTION. Rows 50-53: 50 GENERAL NOTES, 51 FOUNDATION PLAN, 52 SECTIONS & DETAILS, 53 SECTIONS & DETAILS

FOUNDATIONS:

- 1. FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING AN ASSUMED NET ALLOWABLE BEARING PRESSURE OF 1.5 KSF FOR INDIVIDUAL COLUMN FOOTINGS AND 1.5 KSF FOR CONTINUOUS WALL FOOTINGS UNDER FULL SERVICE LIVE AND DEAD LOAD.
2. THE SITE SHALL BE PREPARED IN ACCORDANCE WITH CIVIL DRAWINGS AND PROJECT SPECIFICATIONS. A GEOTECHNICAL INVESTIGATION HAS NOT BEEN PERFORMED ON THIS SITE PRIOR TO THE ISSUANCE OF THESE DRAWINGS.
3. THE FOOTINGS HAVE BEEN POSITIONED AT THE ESTIMATED ELEVATION WHICH WILL PROVIDE SUITABLE BEARING. HOWEVER, IF ADEQUATE BEARING CAPACITY IS NONEXISTENT AT THESE ESTIMATED ELEVATIONS, THE FOOTING SHALL BE LOWERED TO AN ELEVATION WHERE THE PRESCRIBED SAFE BEARING CAPACITY EXISTS (AS RECOMMENDED BY A QUALIFIED GEOTECHNICAL ENGINEER).
4. FOOTINGS MAY BE CAST INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.
5. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.
6. IN AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED. ANY CUT AND FILL REQUIREMENTS SPECIFIED BY CIVIL SHALL BE AS INSTALLED PURSUANT TO THE GEOTECHNICAL REPORT NOTED IN ITEM 2 OF THIS SECTION.
7. FOOTING CONCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED. IF THE BEARING SURFACE IS ALLOWED TO BECOME DISTURBED IN ANY WAY, IT SHALL BE REWORKED TO THE SATISFACTION OF AN INDEPENDENT TESTING AGENCY PRIOR TO CASTING OF THE CONCRETE.
8. ALL EXCAVATIONS AND STRUCTURE BEARING PADS SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL.
9. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-6" BELOW FINAL GRADE FOR FROST PROTECTION.
10. NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (2 HORIZONTAL TO 1 VERTICAL) TO A FOOTING. PROVIDE SHORING AND PROTECTION FOR EXCAVATION BANKS AS NECESSARY TO PRESERVE SAFETY AND PREVENT CAVING.
11. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.
12. BACKFILL AGAINST WALLS SHALL BE PLACED IN 6" LIFTS AND SHALL BE DEPOSITED EVENLY AGAINST EACH SIDE OF WALL UNTIL THE LOWER FINAL GRADE IS REACHED. BACKFILL SHALL NOT BE PLACED AGAINST WALLS DEPENDENT UPON TOP AND BOTTOM SLABS/FOUNDATION FOR SUPPORT UNTIL SUCH SLABS HAVE ATTAINED MINIMUM SUFFICIENT BRACING AND SHORING FOR ALL WORK DURING THE CONSTRUCTION PROCESS. RETAINING WALLS ARE NOT DESIGNED TO CANTILEVER AT ANY TIME UNLESS EXPLICITLY NOTED ON DRAWINGS.
13. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE DRAINAGE SYSTEM FOR ALL BACKFILL CONDITIONS PER CIVIL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
14. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BE POURED MONOLITHIC WITH TOPS OF ADJACENT FOOTINGS AT THE SAME ELEVATION.
15. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN ANY FOOTING WITHOUT PRIOR WRITTEN APPROVAL FROM ENGINEER.

MISCELLANEOUS:

- 1. THE FOLLOWING NOTES APPLY TO ALL PROJECT RELATED STRUCTURAL DRAWINGS. THIS INCLUDES THESE DRAWINGS, FIELD SKETCHES AND RESPONSES TO REQUESTS FOR INFORMATION (RFIS), UNLESS OTHERWISE INDICATED.
2. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PERTINENT ASPECTS OF ALL DISCIPLINES INTO THEIR SHOP DRAWINGS AND WORK, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.
4. NO OPENINGS OR MODIFICATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
5. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL DESIGN, ADEQUACY, SAFETY AND STABILITY OF TEMPORARY BRACING AND SHORING THAT MAY BE REQUIRED AS A RESULT OF THE CONTRACTORS CONSTRUCTION METHODS AND/OR SEQUENCES. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURAL FRAMING. APPLIED CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF ANY STRUCTURAL BUILDING ELEMENT.
7. THE CONTRACTORS CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION LIFECYCLE.
8. DO NOT SCALE THESE DRAWINGS; USE DIMENSIONS, FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, SEE ARCHITECTURAL DRAWINGS.
9. THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD. REVIEW OF SHOP DRAWINGS, PRODUCT DATA ETC, UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
10. WHERE A SECTION OR DETAIL IS CUT ON THE PLAN, IT IS UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
11. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECTS OR ENGINEERS PRESENCE AT THE JOB SITE OR REVIEW OF WORK DOES NOT IMPLY CONFIRMATION OF THE ADEQUACY OF THE CONTRACTORS MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLIANCE WITH OSHA REGULATIONS.
12. CONSULT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATION, SIZES, AND EXTENT OF CHASES, INSERTS, RECESSES, RIDGES, FINISHES, DEPRESSIONS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
13. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IN WRITING OF ALL CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
14. STRUCTURAL CONTRACT DOCUMENTS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR.
15. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AND PUBLISHED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
16. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, SLOPE, AND LOCATION OF DEPRESSIONED FLOOR AREAS. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.
17. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. OPENINGS 1'-4" IN WIDTH OR LENGTH (AND LESS) ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL REQUIRED OPENINGS. ALL MECHANICAL OPENING LOCATIONS, UNIT OPERATING WEIGHTS, AND SIZES SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION. ANY DEVIATION FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION FOR APPROVAL.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
19. SPECIAL INSPECTIONS SHALL BE PROVIDED WHERE REQUIRED BY THE INTERNATIONAL BUILDING CODE AND THE PROVIDED SCHEDULE OF SPECIAL INSPECTION.

SUBMITTALS:

- 1. STRUCTURAL DRAWINGS GIVE REPRESENTATIVE DETAILS AND ARE NOT INTENDED TO SHOW ALL CONDITIONS THAT MAY BE PRESENT. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH THE SPECIFIC REQUIREMENTS AS INDICATED IN THE PROJECT DOCUMENTS.
2. CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTALS DATES TO ARCHITECT AT LEAST 30 DAYS PRIOR TO FIRST SUBMITTAL. FAILURE TO SUBMIT DRAWINGS ON DESIGNATED DATE MAY IMPACT REVIEW SCHEDULE.
3. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIALS OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:
A. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.
B. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND THE ICC-ES REPORT IS SUBMITTED WITH THE REQUEST. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.
4. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
5. COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL FABRICATED AND SPECIALTY BUILDING COMPONENTS INCLUDING (BUT NOT LIMITED TO) WINDOW SYSTEMS, CANOPY SYSTEMS, AND METAL STAIRS. SHOP DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA.
6. ALL APPROVED SUBMITTALS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, SHALL BE MADE AVAILABLE ON THE JOBSITE FOR REVIEW BY THE INSPECTOR.
7. REPRODUCTION OF CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS IS NOT PERMITTED.

CONCRETE:

- 1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-14.
2. CEMENT USED SHALL BE TYPE I OR II CONFORMING TO ASTM C-150. CONCRETE SHALL DEVELOP A MINIMUM 28 DAY STRENGTH AND DENSITY AS FOLLOWS:
ALL ELEMENTS STRENGTH (PSI) DENSITY (PCF)
4000 145 - 150
3. AGGREGATE SHALL BE WELL GRADATED AND SHALL CONFORM TO THE FOLLOWING:
ALL ELEMENTS COARSE AGGREGATE (ASTM C-33)
1"
4. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS BY EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA. RESULTS OF ALL COMPRESSIVE STRENGTH TEST SHALL BE MADE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE INSPECTOR.
5. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.
6. NO ADDITIONAL WATER SHALL BE ADDED TO CONCRETE AT THE JOB SITE.
7. MINIMUM CONCRETE COVER UNLESS NOTED OTHERWISE:
A. #11 BARS AND SMALLER: 3/4 INCHES
B. UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3 INCHES
C. C. BASEMENT WALLS: 2 INCHES EXTERIOR 3/4 INCHES INTERIOR
D. FORMED SURFACES EXPOSED TO EARTH OR WEATHER: #8 BARS AND LARGER: 2 INCHES #8 BARS AND SMALLER: 1 1/2 INCHES
E. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: BEAMS, GIRDERS AND COLUMNS: 1 1/2 INCHES SLABS, WALLS, AND JOISTS: 3/4 INCHES
8. SLAB-ON-GRADE SHALL BE SAW CUT NO MORE THAN 12 HOURS AFTER CONCRETE HAS BEEN FINISHED. CONTRACTOR TO SUBMIT LAYOUT AND CONSTRUCTION SCHEDULE (SOFT-CUT INTERNATIONAL OR SIM).
9. PLACEMENT OF CONCRETE, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PROPORTIONING REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318-14.
10. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SLAB FINISHES, SLAB DEPRESSIONS, ELEVATIONS AND ENCASED OR EMBEDDED ITEMS.
11. PIPES AND CONDUITS EMBEDDED IN CONCRETE SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
A. NO MATERIAL HARMFUL TO CONCRETE (SUCH AS, BUT NOT LIMITED TO, ALUMINUM) IS PERMITTED.
B. NO EMBEDMENT OR PENETRATION WHICH IMPAIRS THE STRUCTURAL STRENGTH OR INTEGRITY IS PERMITTED.
C. CONDUITS AND PIPES SHALL NOT HAVE A DIAMETER THAT EXCEEDS 1/3 THE OVERALL THICKNESS OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE EMBEDDED.
D. MINIMUM CENTER TO CENTER SPACING SHALL NOT BE CLOSER THAN 3 DIAMETERS OR WIDTHS.
E. PLACEMENT SHALL OCCUR ABOVE BOTTOM LAYER OF REINFORCEMENT AND BELOW TOP LAYER OF REINFORCEMENT AND SHALL NOT CAUSE REINFORCEMENT TO BE CUT, BENT OR DISPLACED IN ANY MANNER.
F. PLACEMENT SHALL MAINTAIN A MINIMUM CLEARANCE FROM REINFORCEMENT OF 3 REINFORCING BAR DIAMETERS OR 3/4" FROM WELDED WIRE FABRIC REINFORCEMENT.
G. PLUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW SLAB ON GRADE.
12. UNLESS NOTED OTHERWISE, PROVIDE CONTROL JOINTS IN SLABS ON GRADE NOT TO EXCEED 15 FEET ON CENTER IN EACH DIRECTION, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER.
13. FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION.
14. NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER.
15. REINFORCING SHALL CONFORM TO ASTM A615, GR60 UNLESS NOTED OTHERWISE.
16. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 GRADE 60.
17. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES) AND CRSI MSP-1 (MANUAL OF STANDARD PRACTICE), LATEST EDITION.
18. ALL 'CONTINUOUS' REINFORCEMENT SHALL HAVE MINIMUM LAP OF 'B' TYPE (ACI 318-14, SECTION 25.5.2) AT SPLICES UNLESS NOTED OTHERWISE.
19. PROVIDE REINFORCING CHAIRS FOR ALL SLAB-ON-GRADE REINFORCING.
20. SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW. NO REINFORCING BARS SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
21. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH CRSI MANUAL OF STANDARD PRACTICE (27TH EDITION).
22. WHERE WELDED WIRE FABRIC REINFORCEMENT IS SPECIFIED IN SLABS ON GRADE PLACEMENT SHALL BE 1" BELOW TOP OF SLAB, OVERLAP EACH REINFORCING SHEET TWO FULL PANELS AND TIE CROSS WIRES ON EACH SIDE.
23. SCHEDULED OR DETAILED REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL AND/OR SPLICES ARE PERMITTED ONLY WHERE SHOWN ON DRAWINGS. WHERE WELDING IS PERMITTED IT SHALL CONFORM TO AWS D1.4, STRUCTURAL WELDING CODE - REINFORCING STEEL.
24. BASE PLATES, ANCHOR RODS, SUPPORT ANGLES, ETC. BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 4" OF CONCRETE.
25. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING UNLESS NOTED OTHERWISE.

PRE-ENGINEERED METAL BUILDING:

- 1. FRAMES SHALL NOT EXCEED L/240 VERTICAL DEFLECTION UNDER TOTAL LOAD.
2. STORY DRIFT SHALL BE LIMITED TO H/240 HORIZONTAL.
3. METAL BUILDING DESIGNER SHALL PROVIDE MAXIMUM AND MINIMUM VERTICAL AND HORIZONTAL REACTIONS FROM METAL BUILDING COLUMNS TO BUILDING FOUNDATIONS.
4. METAL BUILDING DESIGNER SHALL INCLUDE FRAMING SUPPORT FOR ALL OPENINGS, VENEER, CANOPIES, AWNINGS, & OTHER COMPONENTS IMPARTING LOAD TO THE STRUCTURE.

VERIFICATION AND SPECIAL INSPECTION:

- 1. THE PROJECT OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS AND TESTING DURING CONSTRUCTION FOR THE TYPES OF WORK INDICATED BY IBC SECTIONS 1704, 1705, 1706, AND 1707. SUBMIT DOCUMENTATION THAT SUMMARIZES THE QUALIFICATIONS AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND DEMONSTRATES COMPETENCE FOR THE BUILDING INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
2. APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION AND TESTING REPORTS TO THE OWNER, ARCHITECT AND BUILDING OFFICIAL AND STRUCTURAL ENGINEER OF RECORD WHICH INDICATES THE WORK INSPECTED WAS DONE IN CONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. REPORTS WHICH DOCUMENT THE RESULTS OF THE SPECIAL INSPECTIONS SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY APPROVED BY THE BUILDING OFFICIAL PRIOR TO CONSTRUCTION. A FINAL REPORT DOCUMENTING ALL THE WORK HAS BEEN PERFORMED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS SHALL BE SUBMITTED AT THE END OF THE PROJECT.
3. SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF THE WORK IS APPROVED FOR OCCUPANCY.
4. SEE THE PROJECT SPECIFICATIONS AND SECTION 1704 OF THE BUILDING CODE FOR FULL CRITERIA AND EXCEPTIONS FOR INSPECTION REQUIREMENTS.

DEFINITIONS:

- 1. SPECIAL INSPECTION, PERIODIC: A PART-TIME OR INTERMITTENT OBSERVATION WORK BEING PERFORMED REQUIRING A PRESENCE WHEN THE WORK IS BEING PERFORMED AND AFTER COMPLETION OF THE WORK, PRESENCE AT THE JOB SITE SHALL BE WEEKLY AT MINIMUM OR GREATER AS REQUESTED BY THE OWNER.
2. SPECIAL INSPECTION, CONTINUOUS: A FULL-TIME OBSERVATION OF WORK REQUIRING CONTINUOUS JOBSITE PRESENCE WHEN AND WHERE THE WORK IS BEING PERFORMED.

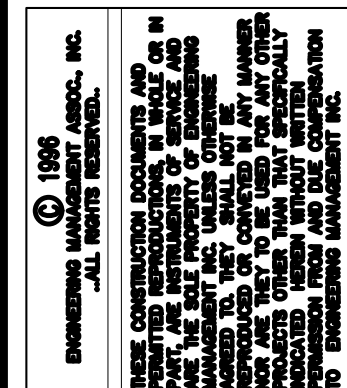


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BALDWIN WASTEWATER RECLAMATION FACILITY
SCREW PRESS BUILDING
CITY OF BALDWIN, GEORGIA
HABERSHAM COUNTY, GEORGIA - G.M.D. 1612

EMI ENGINEERING MANAGEMENT logo and contact information: 303 Swanson Drive, Lawrenceville, GA 30043, phone 770-962-9099, www.emimc.biz

Table with 2 columns: GENERAL NOTES, SHEET TITLE. Row 1: SHEET TITLE, CHECKED BY: WJP, DRAWN BY: STS, DESIGN BY: STS

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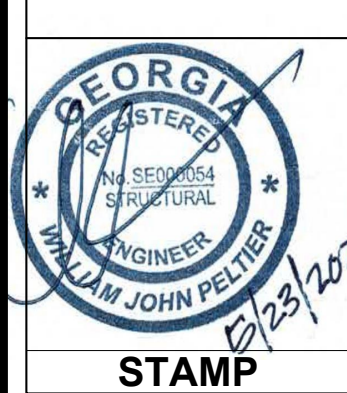


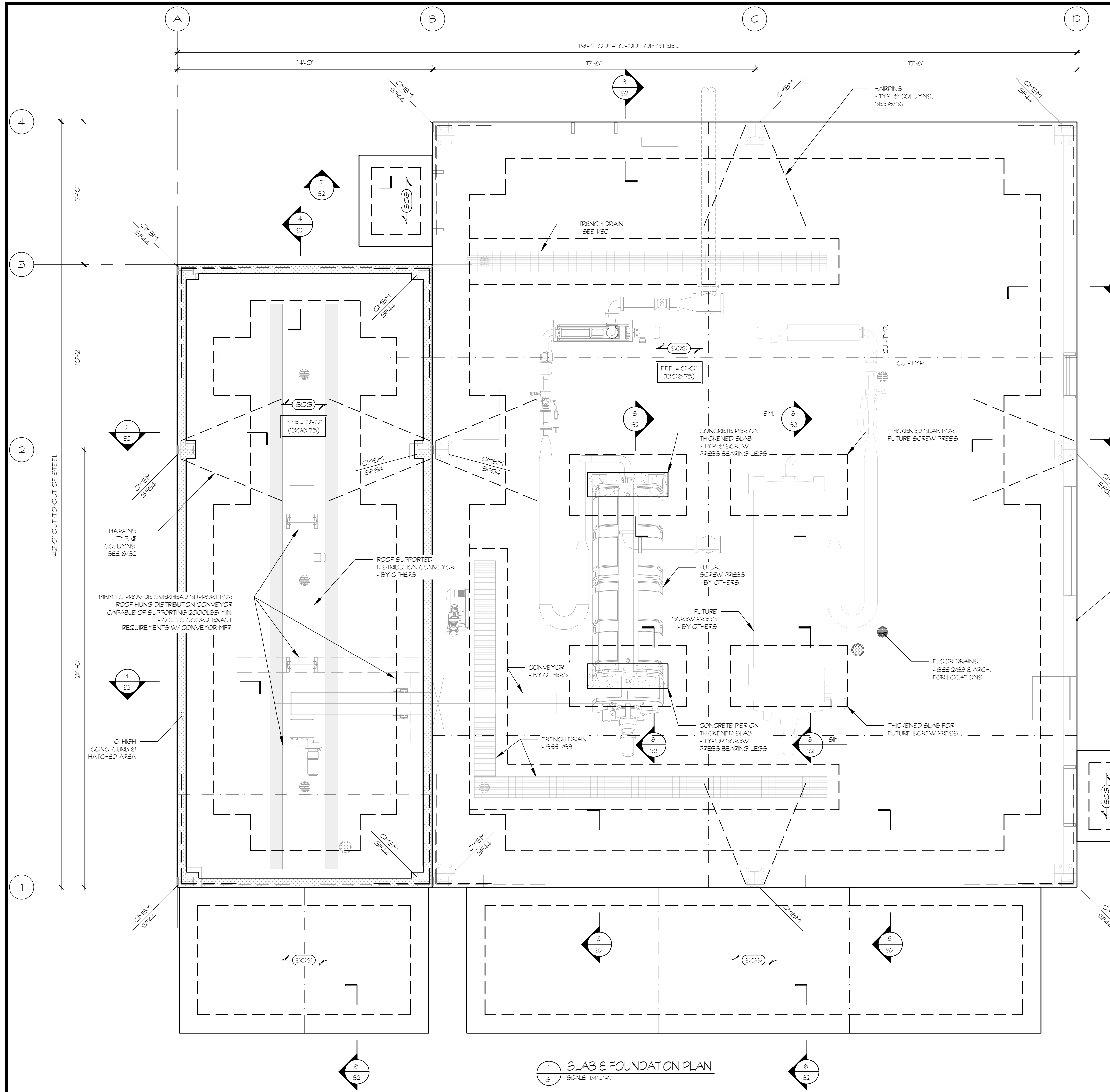
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50

REVISION

PROJECT

SHEET



**TYPICAL SLAB & FOUNDATION NOTES:**

1. **EOG** SLAB ON GRADE SHALL BE 6" CONC SLAB (4000 PSI) ON VAPOR RETARDER ON 4" GAB (GRADED AGGREGATE BASE) W/ #4 @ 12" O.C. E.V. 2' CLEAR FROM TOP, UNO ON PLAN. AIR ENTRAIN EXTERIOR CONCRETE, 0.8% (± 1%).
2. 'CJ' INDICATES CONTROL JOINTS IN SLAB. ALIGN JOINTS WITH EQUIPMENT PAD EDGE. SEE GENERAL NOTES AND S2 FOR ADDITIONAL INFORMATION.
3. '-X-XX' INDICATES TOP OF FOOTING ELEVATION, T/FTG. = FFE, U.N.O.
4. 'CMBM' INDICATES COLUMNS DESIGNED BY METAL BUILDING MANUFACTURER
5. FOUNDATIONS HAVE BEEN DESIGNED BASED ON PRELIMINARY LOADING FROM THE METAL BUILDING MANUFACTURER. WJPA SHALL REVIEW THE FINAL PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS FOR ACTUAL LOADS PRIOR TO CONSTRUCTION OF THIS STRUCTURE. SUBMIT SHOP DRAWINGS FOR FINAL REVIEW AND COORDINATION.
6. G.C. TO COORDINATE ALL SLAB SLOPES WITH CIVIL AND ARCHITECTURAL DRAWINGS. SLOPES SHALL BE ACCOMPLISHED BY SLOPING BOTTOM AND TOP OF SLAB AT THE SAME RATE. (SEE 3/S3). SEE ARCH. DRAWINGS FOR FFE.

**NOTE TO CONTRACTOR:**

THE CONTRACTOR SHALL REFER TO THE PLUMBING, MECHANICAL, & ELECTRICAL DRAWINGS AND NOTE THE LOCATION OF ALL UNDERGROUND OR UNDER FLOOR PIPING & CONDUITS. THE CONTRACTOR SHALL INCORPORATE ALL FOOTING STEPS NECESSARY FOR THE REQUIREMENTS OF ALL UNDERGROUND OR UNDER FLOOR PLUMBING, MECHANICAL, AND ELECTRICAL PIPING. THE CONTRACTOR SHALL REFER TO THE FOUNDATION DETAILS 5/6/S3 WHEN PERFORMING THIS WORK.

**SLAB FOOTING SCHEDULE (SF"X")**

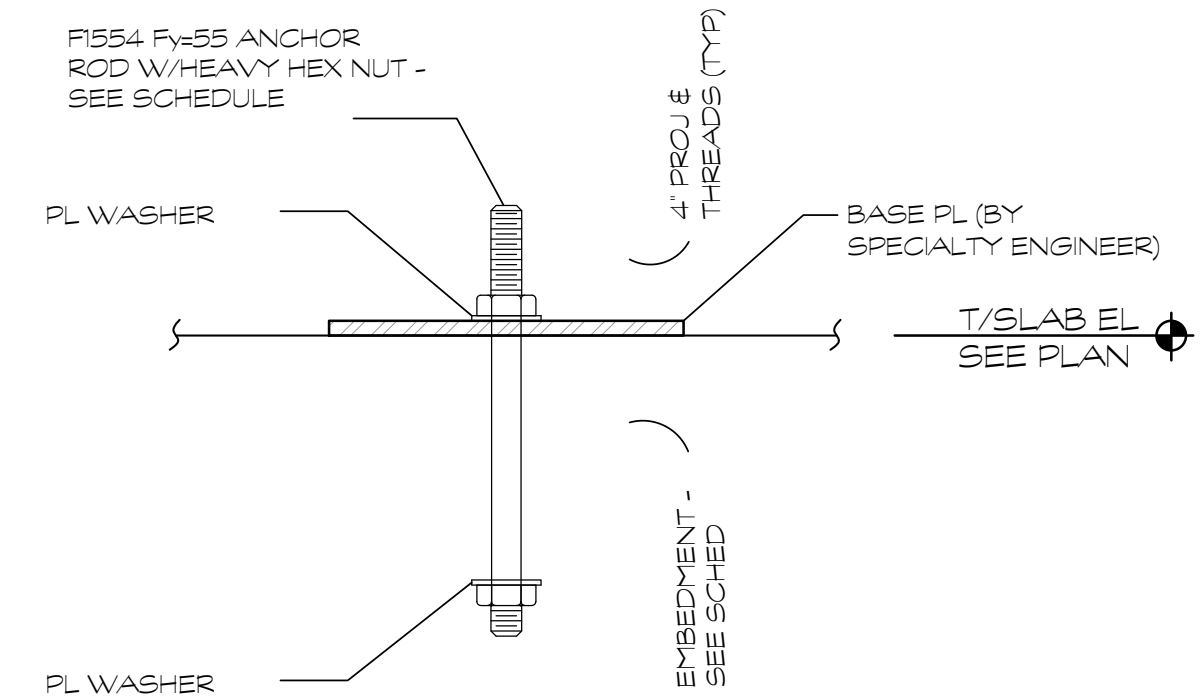
MARK	SIZE	REINFORCING	REMARKS
SF44	4'-0" x 4'-0" x 2'-0"	(4) #5 SW BOT, (4) #5 LW BOT	
SF64	8'-0" x 4'-0" x 2'-0"	(6) #5 SW BOT, (4) #5 LW BOT	

**ANCHOR ROD SCHEDULE**

MARK	ANCHOR ROD SIZE	EMBEDMENT
AR1	5/8" Ø AR (GRADE 55)	12"
AR2	3/4" Ø AR (GRADE 55)	14"

**NOTE:**

SEE PRE-ENGINEERED BUILDING DRAWINGS FOR BASE PLATE AND ANCHOR ROD LAYOUTS



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

DATE: 5/28/2024  
NO: B  
DESCRIPTION: RELEASED FOR BIDS

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NO.	DESCRIPTION

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SLAB & FOUNDATION PLAN

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DESIGN BY: STS  
 DRAWN BY: STS  
 CHECKED BY: WJP

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**STAMP**

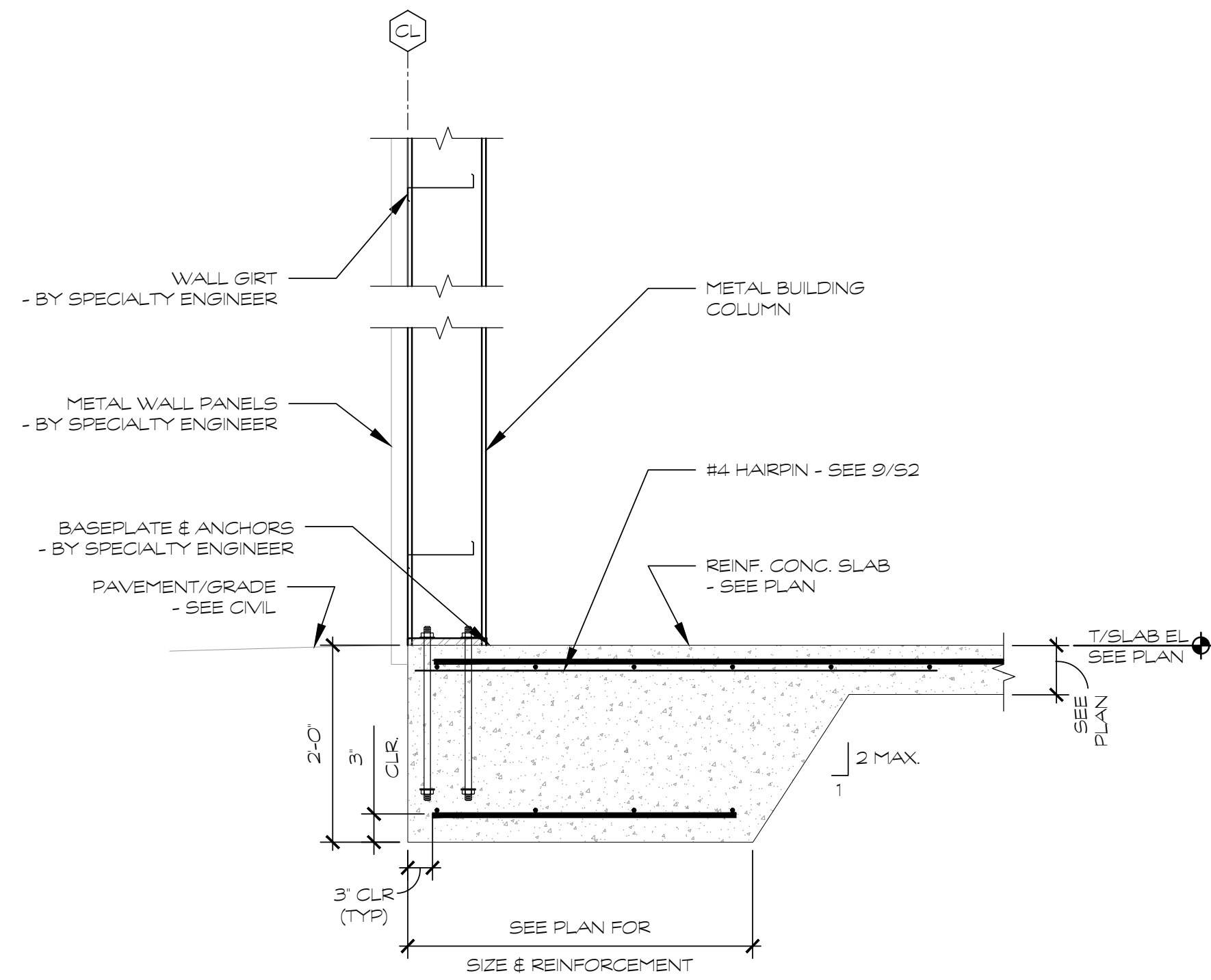
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JOB NUMBER

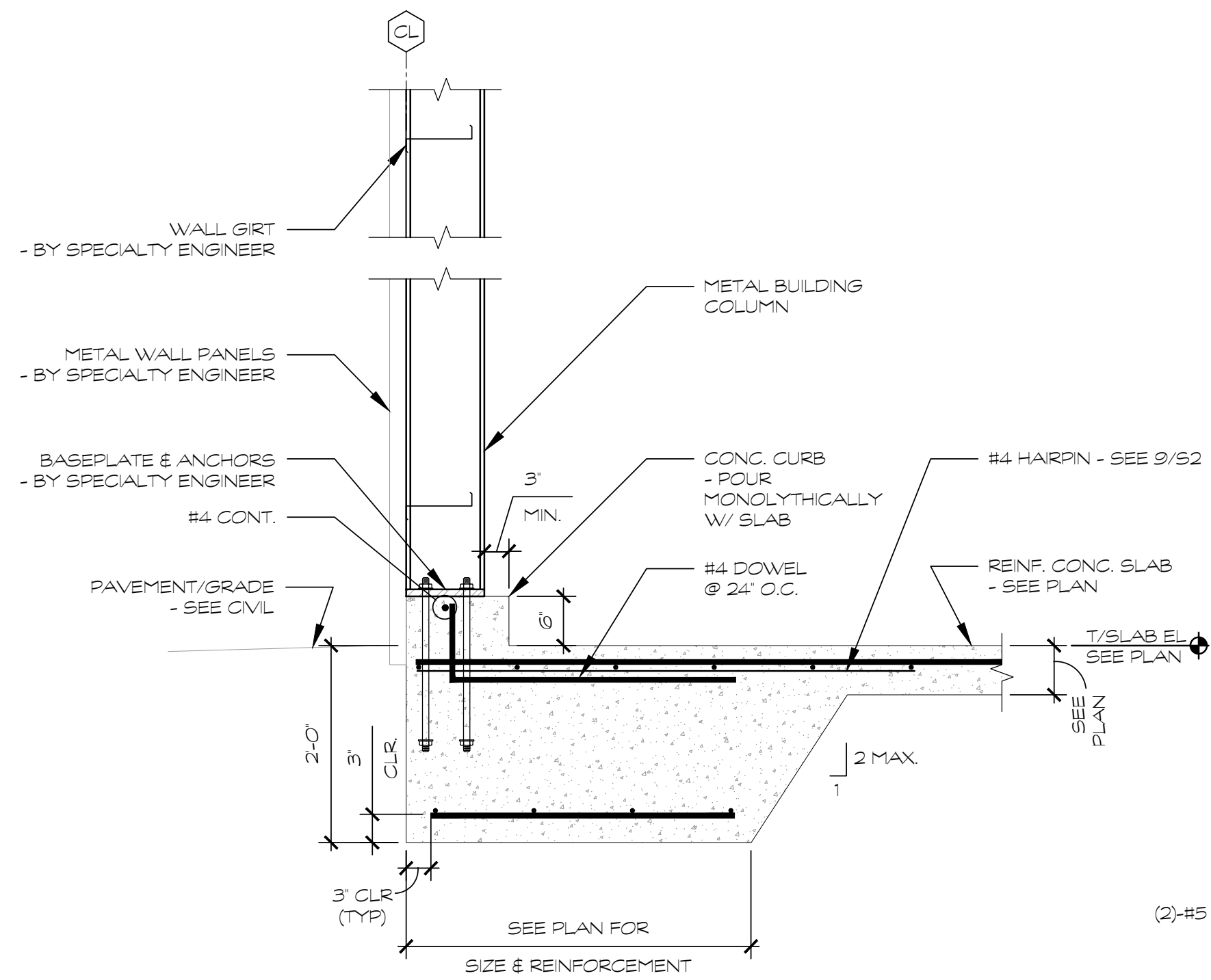
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FILE LOCATION

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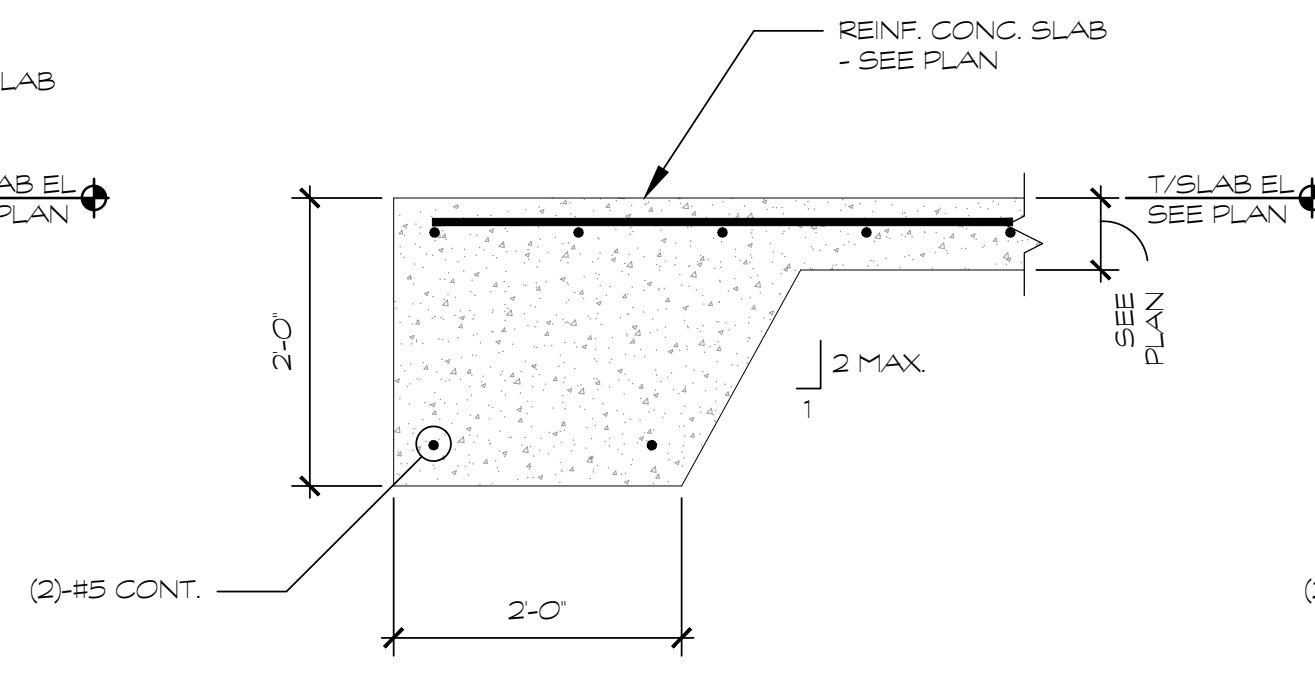
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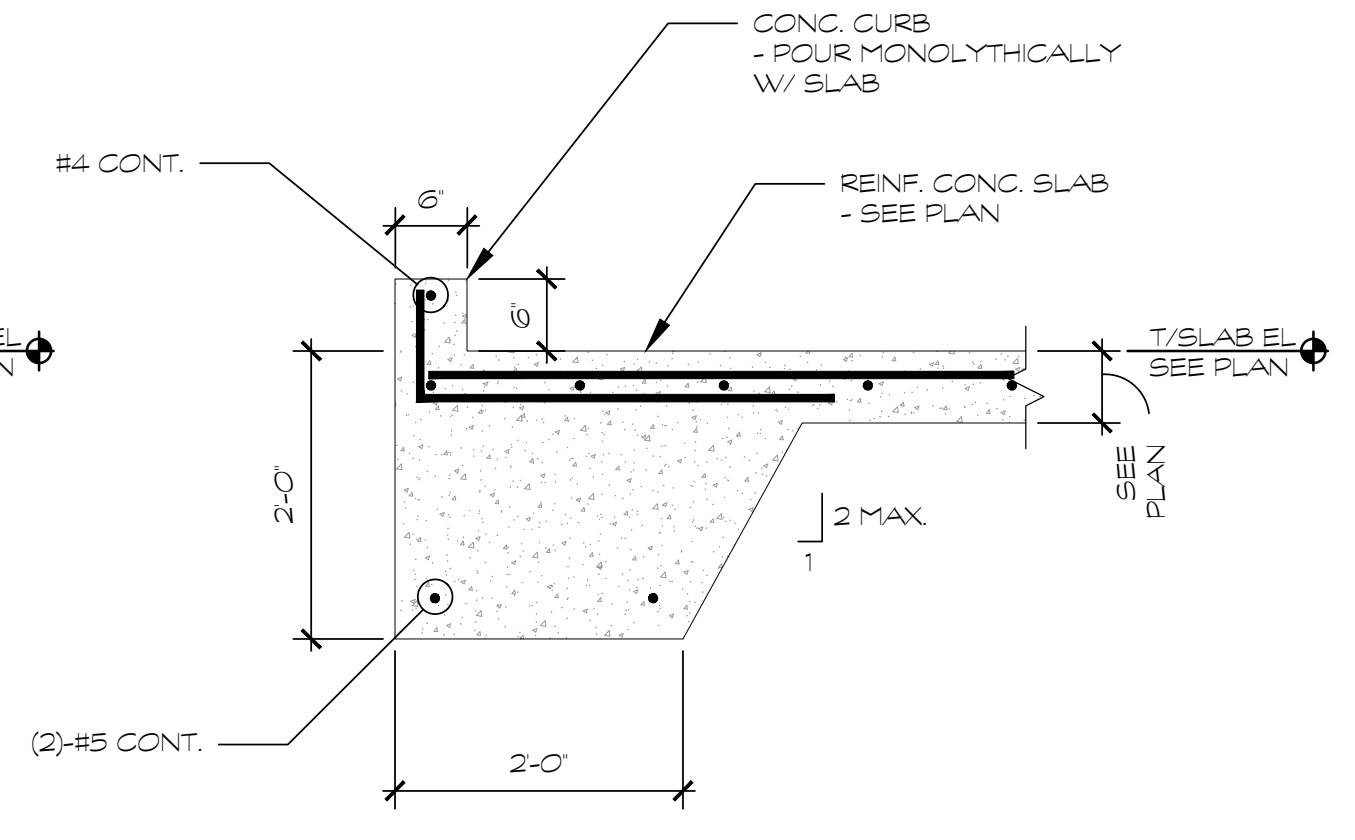
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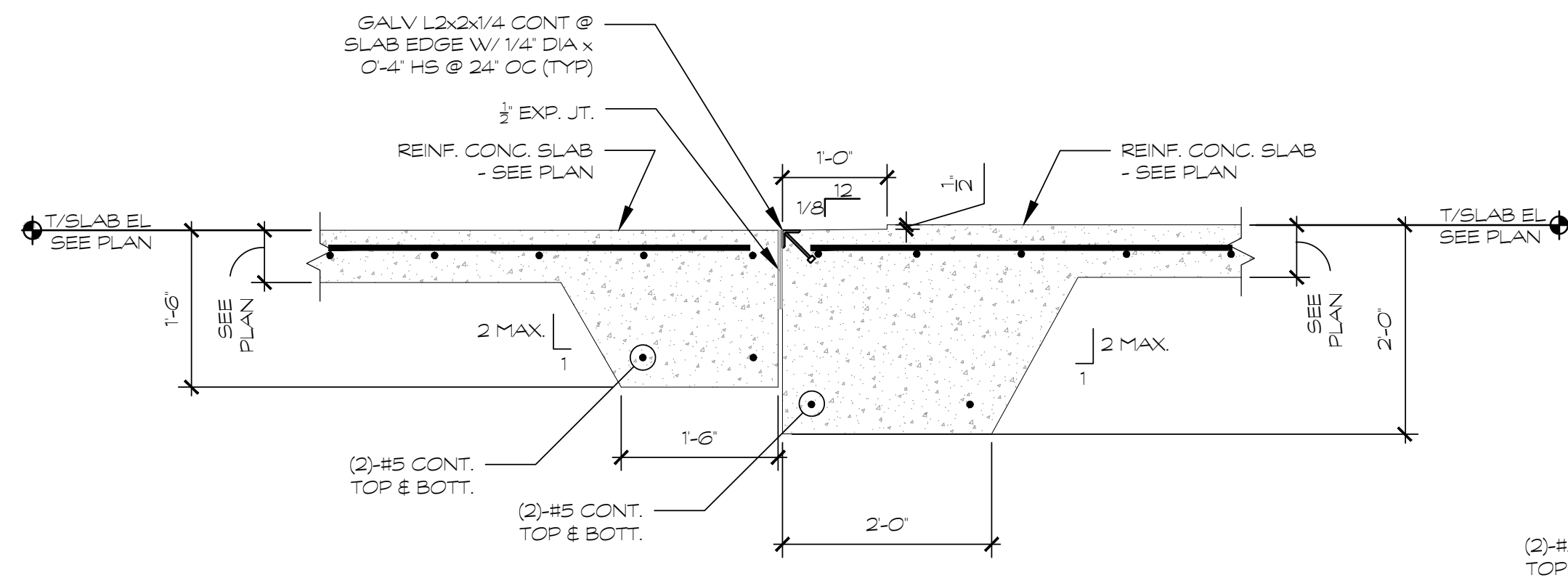
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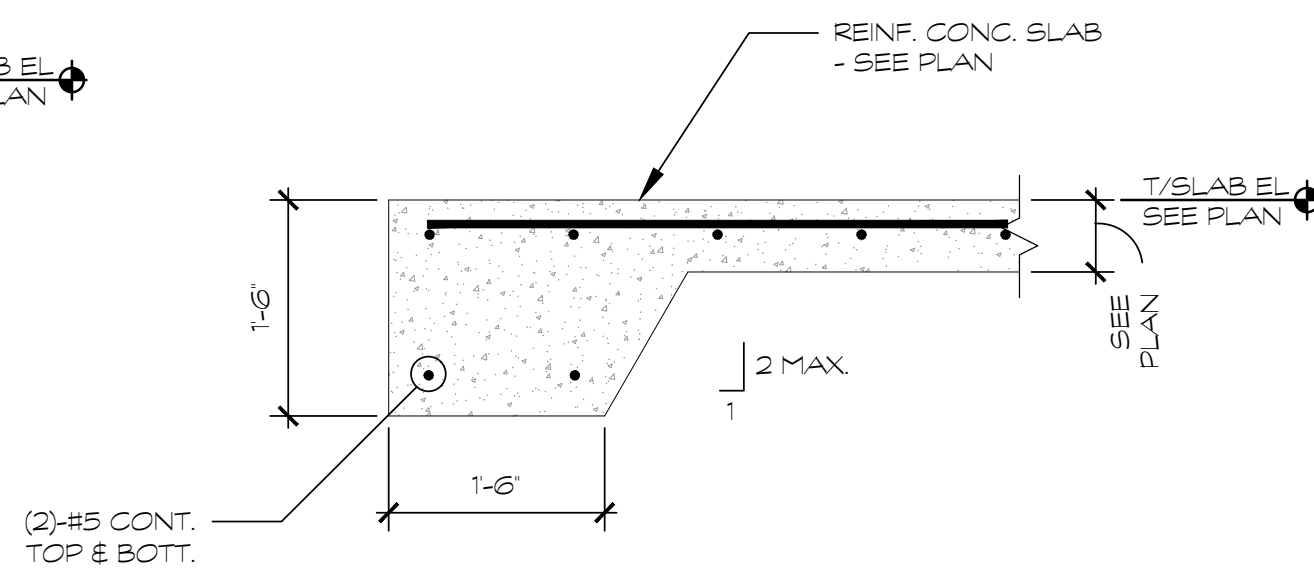
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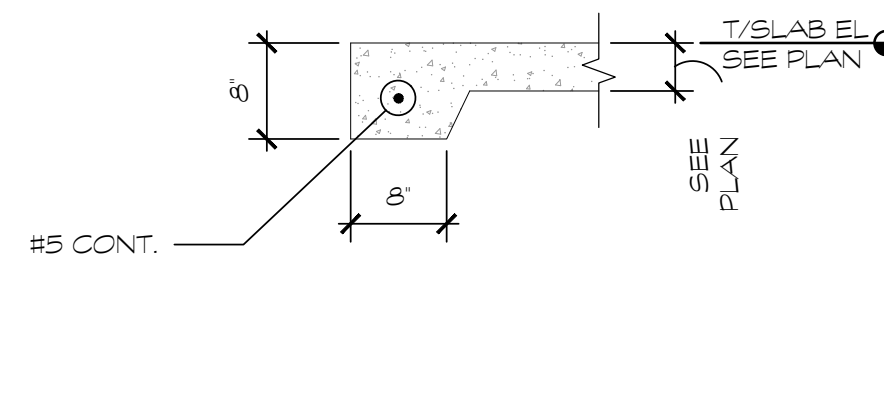
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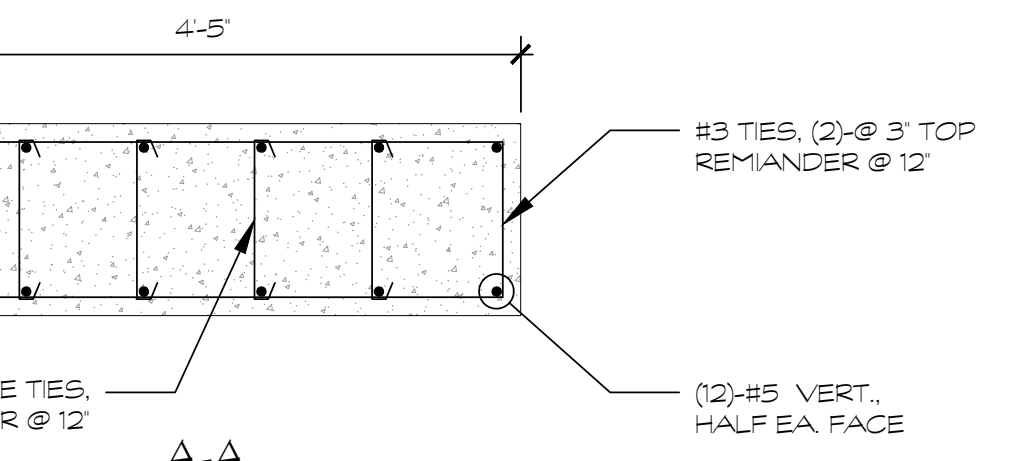
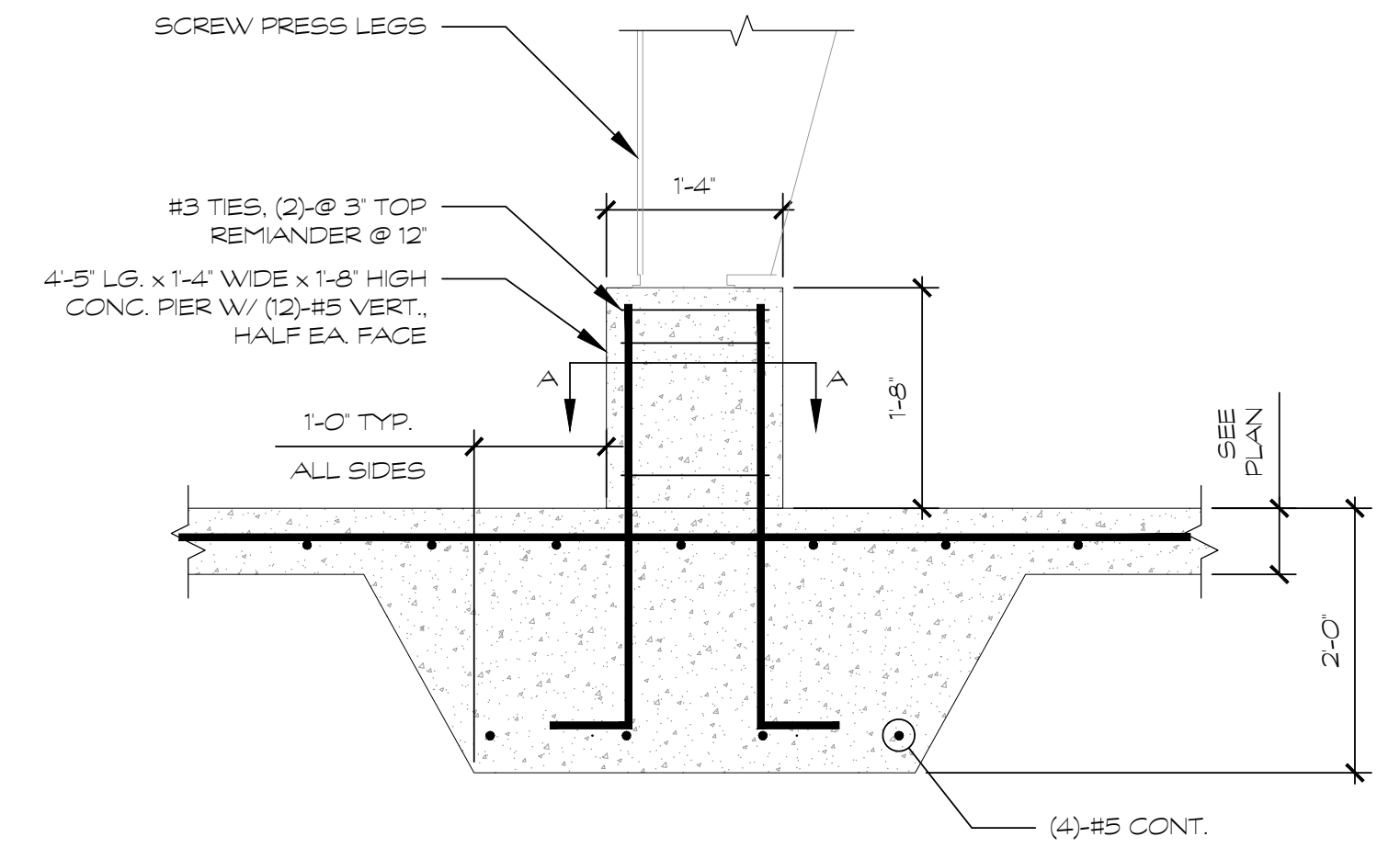
SECTION 5 - RECESS THRESHOLD @ OVERHEAD DOORS  
SCALE 3/4"=1'-0"



SECTION 6  
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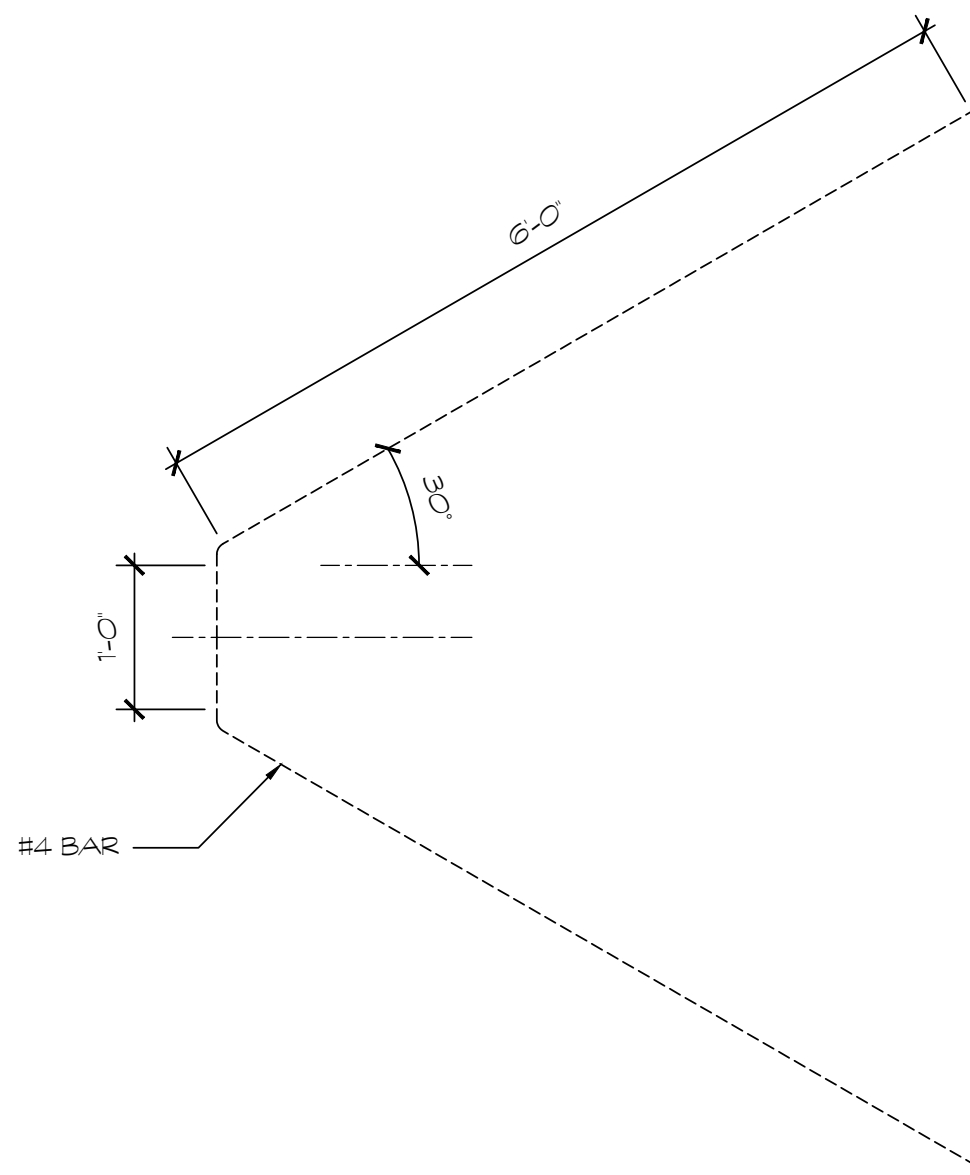


SECTION 7  
SCALE 3/4"=1'-0"



NO PIER @ SIM. CONDITION

SECTION 8  
SCALE 3/4"=1'-0"



SECTION 9 HAIRPIN DETAIL  
SCALE 3/4"=1'-0"

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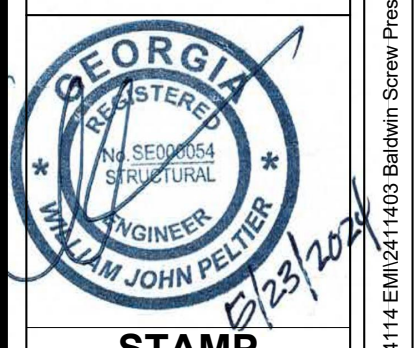
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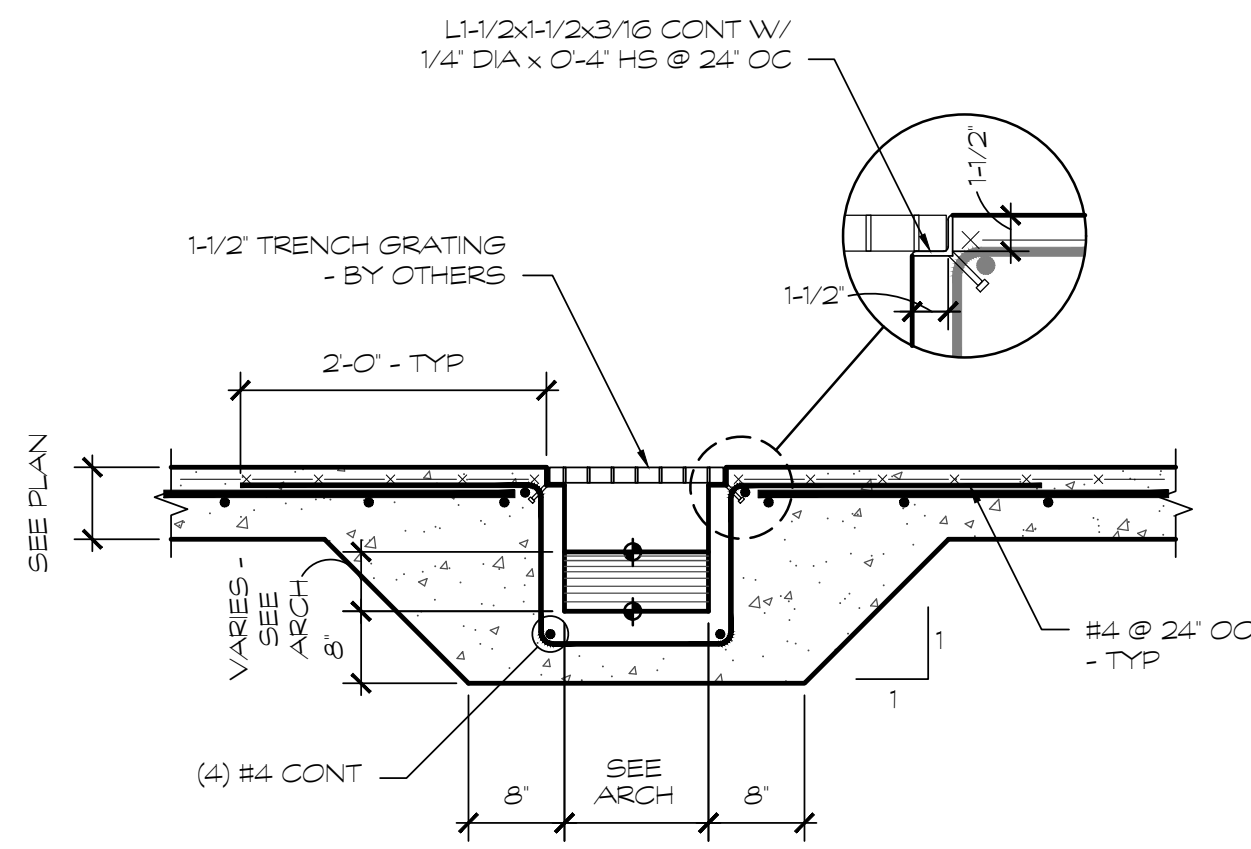
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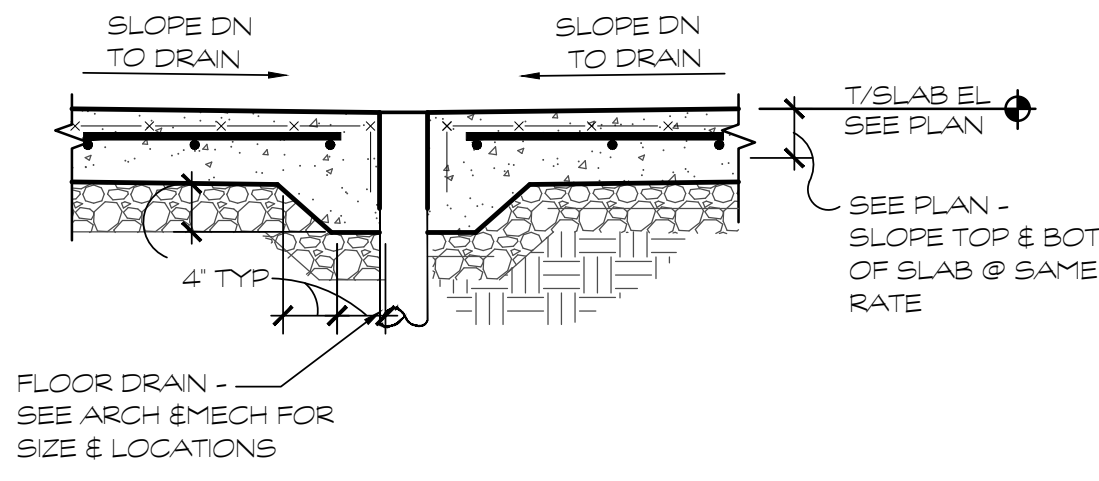
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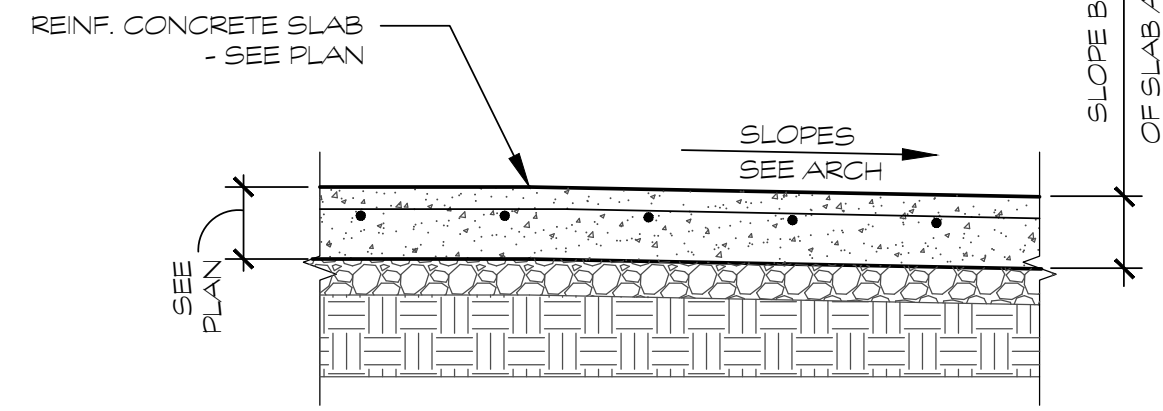
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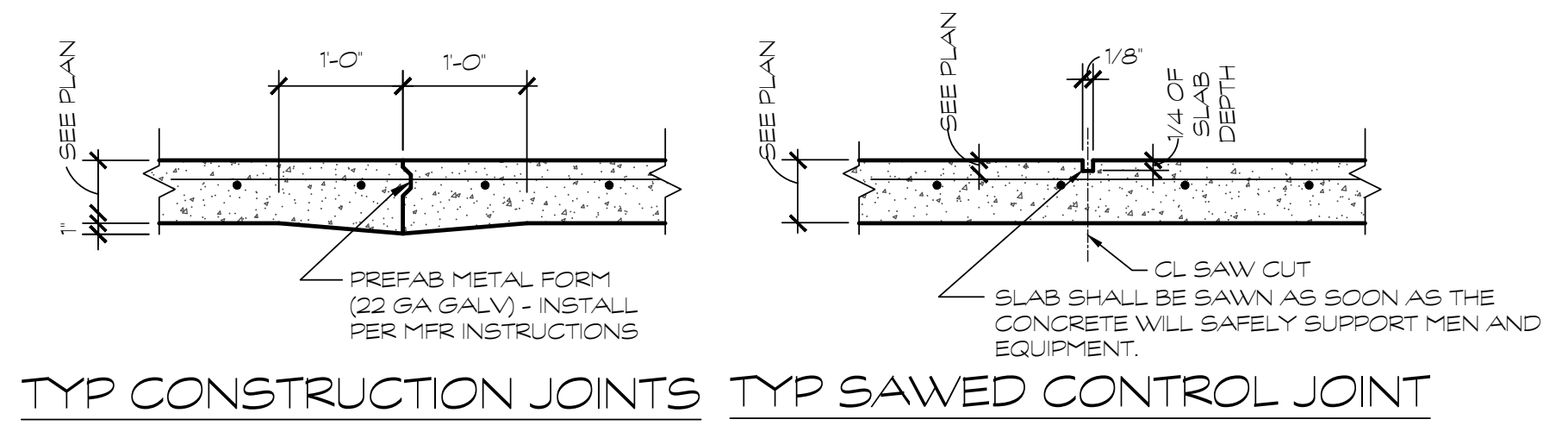
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2 SLAB DRAIN DETAIL  
SCALE 3/4" = 1'-0"

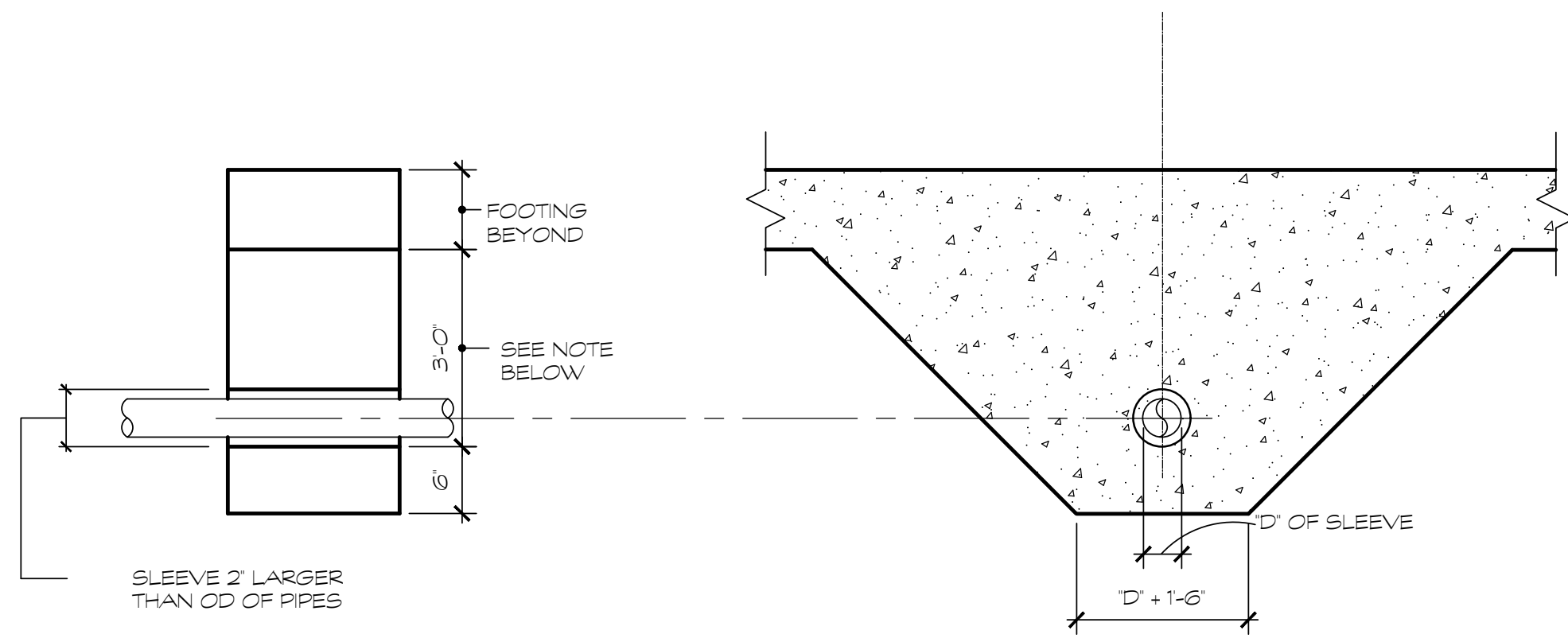


3 TYP SLOPED SLAB-ON-GRADE DETAIL  
SCALE NTS



NOTE: USE CONSTRUCTION JOINT IN LIEU OF CONTROL JOINT WHENEVER A POUR STOP IS REQUIRED OR WHERE INDICATED ON THE PLAN.

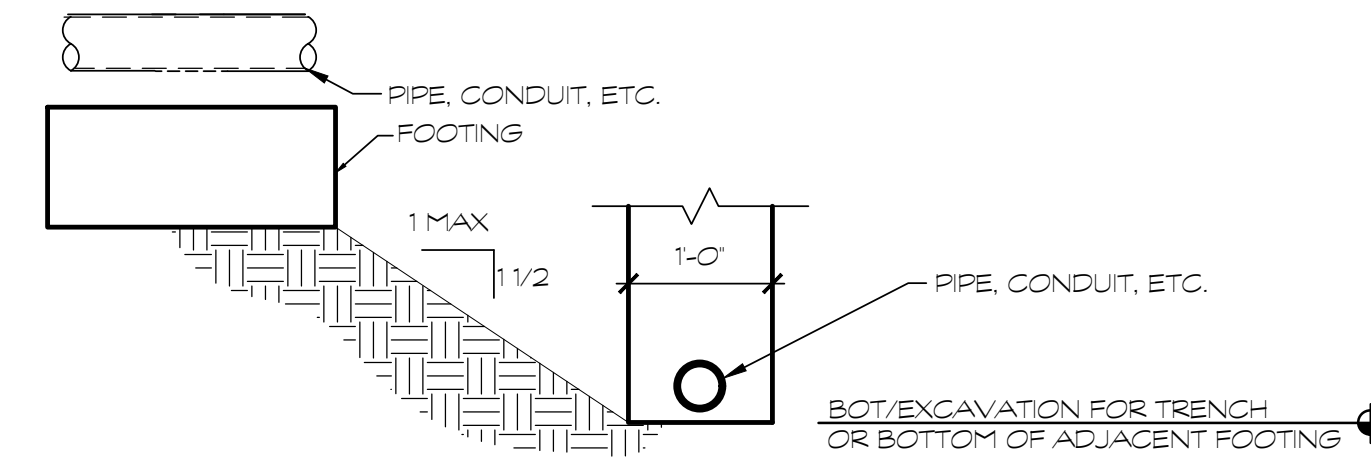
4 TYP SLAB-ON-GRADE JOINT DETAILS  
SCALE 3/4" = 1'-0"



NOTE: FOR PIPES 3'-0" OR LESS BELOW FOOTING, PROVIDE SLEEVE & CONCRETE AS SHOWN; FOR PIPES MORE THAN 3'-0" BELOW BOT/FOOTING COMPACT BACKFILL OVER PIPE TO 90% PROCTOR DENSITY (UNO)

EXCAVATION TRANSVERSE TO WALL FTG

5 TYP FOUNDATION DETAIL @ UTILITY PIPES  
SCALE NTS



LOWER FOOTING AS REQUIRED TO PROVIDE MAX 1:1/2 SLOPE FROM BOTTOM EDGE OF FOOTING TO BOTTOM OF TRENCH EXCAVATION OR LOWER FOOTING SO THAT TOP OF FOOTING IS BELOW PIPE, CONDUIT, ETC.

6 TYP FOUNDATION INFLUENCE DETAIL  
SCALE NTS

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REGISTERED PROFESSIONAL ENGINEER  
WILLIAM JOHN PELTIER  
1/23/24

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DATE	JOB NUMBER	FILE LOCATION

**S3**

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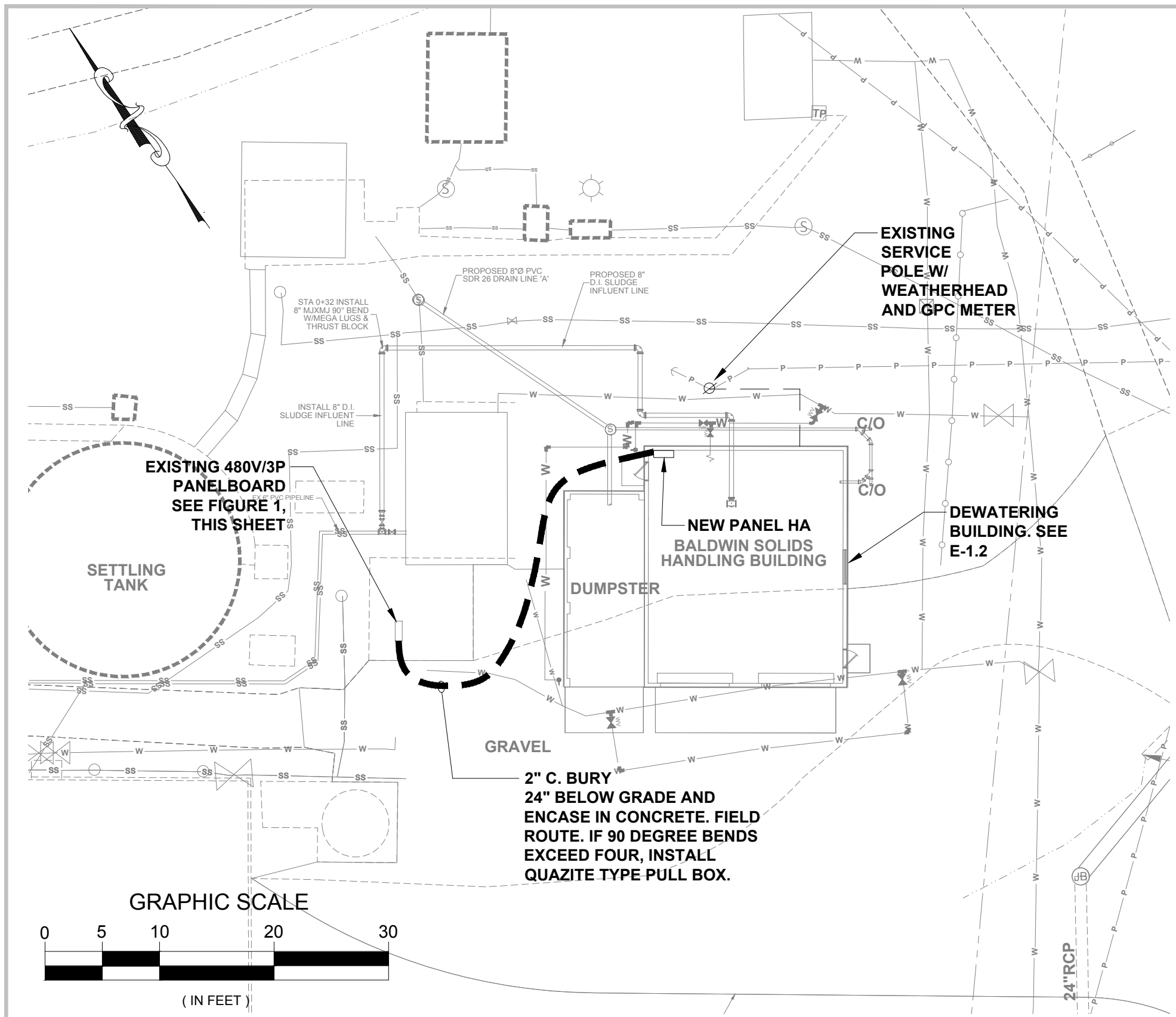


FIGURE 1



UPGRADE LUGS AS REQUIRED TO ACCOMMODATE WIRING TO NEW BREAKER

INSTALL NEW 200A, 480V, 3P BREAKER IN EXISTING SPACE. CUT DOOR AND LABEL "SOLIDS HANDLING BUILDING". NEW BREAKER SHALL BE OF THE SAME MANUFACTURER AND HAVE THE SAME AIC RATING AS THE EXISTING BREAKERS. PROVIDE INTERNAL WIRING AS REQUIRED.

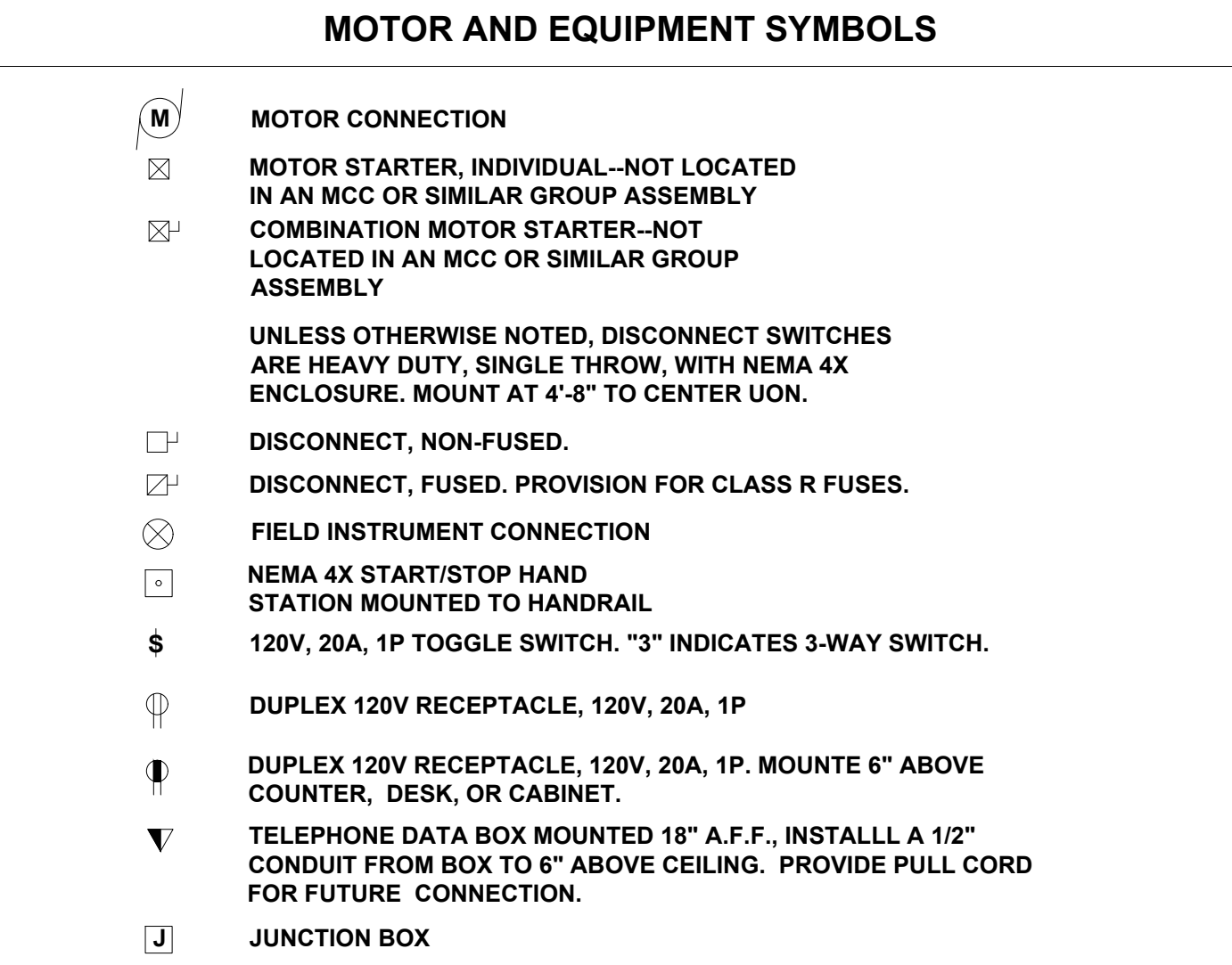
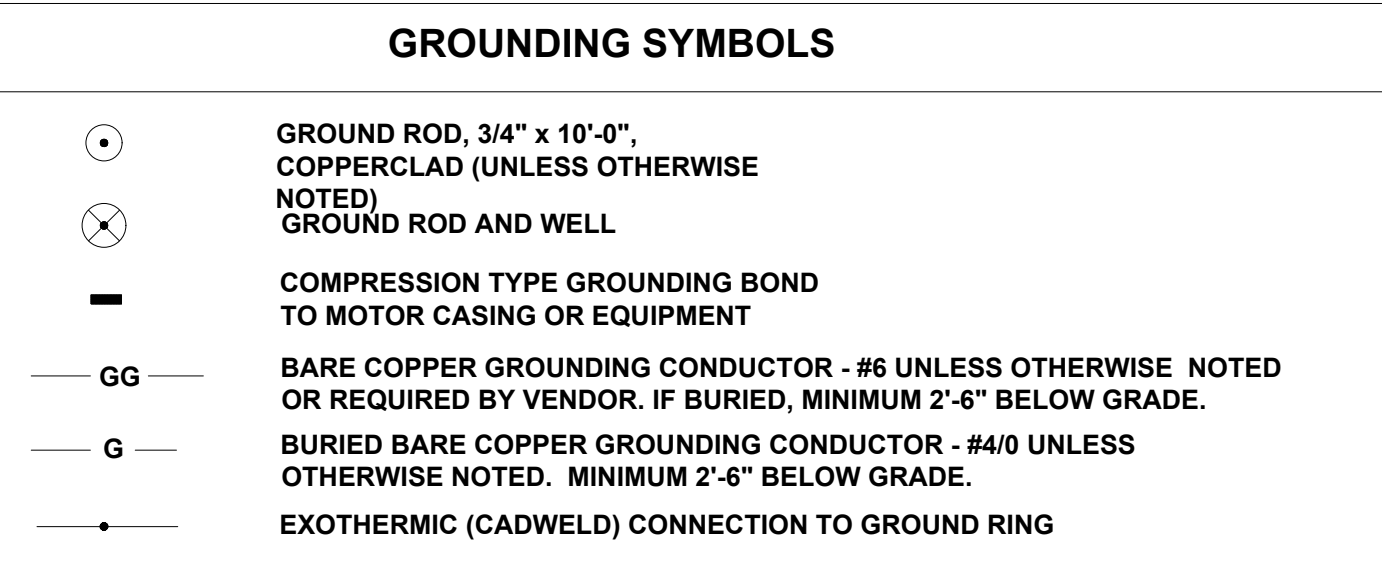
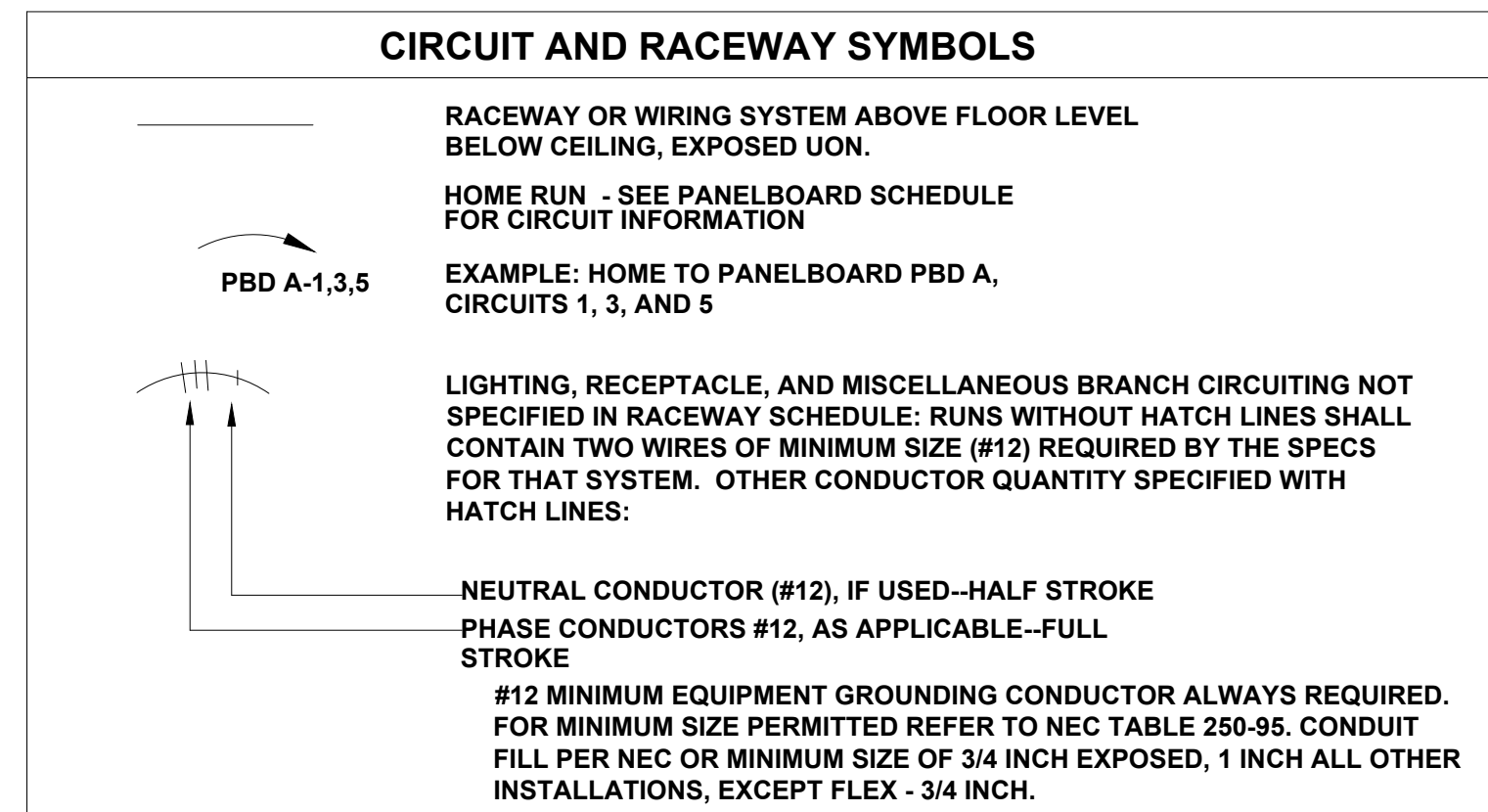
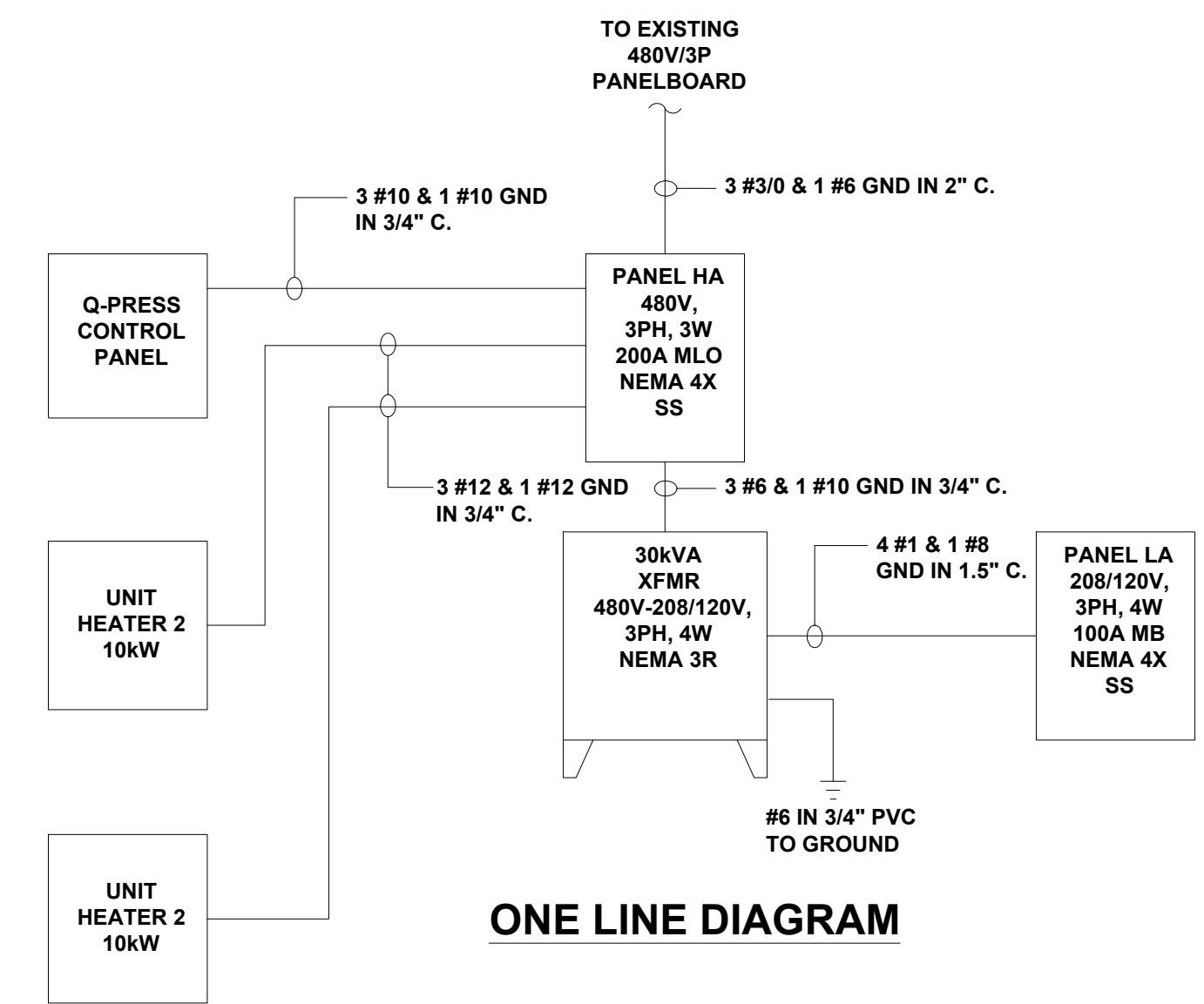
GENERAL NOTES:

- SCOPE:
  - FURNISH ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS REQUIRED TO COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEM INCLUDING BUT NOT LIMITED TO WIRING, BOXES, LIGHT FIXTURES, PANELS, SWITCHES, RECEPTACLES, DISCONNECTS, STARTERS, AND ALL OTHER WORK INDICATED ON THE DRAWINGS OR AS SPECIFIED HEREIN.
  - OBTAIN ALL PERMITS, INSPECTIONS, AND APPROVALS AS REQUIRED BY THE LOCAL AUTHORITIES HAVING JURISDICTION AND DELIVER CERTIFICATE OF APPROVAL TO THE GENERAL CONTRACTOR. ALL ASSOCIATED FEES SHALL BE PAID BY THE CONTRACTOR.
  - ALL MATERIALS AND EQUIPMENT OF THE ELECTRICAL SYSTEM NECESSARY FOR ITS PROPER OPERATION, BUT NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL CHARGE.
  - WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2023 NATIONAL ELECTRICAL CODE, THE LATEST STANDARD BUILDING CODE, NFPA 820, AND LOCAL AUTHORITIES HAVING JURISDICTION.
  - ALL SUBSTITUTIONS FOR EQUIPMENT AND MATERIAL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
  - THE CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER TRADES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL LOCATION OF EQUIPMENT, DUCTWORK, PIPING, ETC. AND COORDINATE THE INSTALLATION ACCORDINGLY.
  - UNLESS OTHERWISE NOTED ON THE DRAWINGS, CONTRACTOR SHALL ROUTE 3 #12 IN 3/4" CONDUIT TO ALL 120V, 20A, 1P LOADS (LIGHTS, RECEPTACLES, ETC) AS SHOWN IN THE PANELBOARD SCHEDULES.
  - DO NOT INSTALL CONDUITS ON EXTERIOR OF BUILDING WALLS, UNLESS APPROVED BY THE ENGINEER.
  - ALL EXTERIOR CONNECTIONS TO PANELS, INSTRUMENTS, BOXES, ETC. SHALL USE WATER TIGHT, MYERS TYPE HUBS. ALL CONNECTIONS SHALL ENTER FROM BOTTOM.
  - ALL EXTERIOR AND INTERIOR CONDUIT SHALL BE ALUMINUM RIGID. ALL UNDERGROUND CONDUIT SHALL BE PVC-40 WITH RIGID GALVANIZED STEEL ELBOWS.
  - FLEXIBLE CONDUIT SHALL BE METALLIC AND SHALL NOT EXCEED 3 FEET.
  - CONTRACTOR SHALL LABEL ALL CONDUCTORS AND PROVIDE TERMINATIONS TO CONTROL PANELS, INSTRUMENTS, ETC.

PANEL HA																						
VOLTAGE: 480V		AMPS: 200 MLO		MOUNTING: SURFACE		SURFACE		NOTES: NEMA 4X STAINLESS STEEL														
3 PHASE, 3 WIRE		TOTAL LOAD: 97.1 KVA		AIC: 42,000		AIC: 42,000																
No.	SERVES	LTG	RCPT	MTR	A/C	KITCH	MISC	BRKR	TRIP	P	A	B	C	BRKR	MISC	KITCH	A/C	MTR	RCPT	LTG	SERVES	No.
1	PRESS #1 CONTROL PANEL						5.10	30	3		15.10	15.10		3	50						TRANSFORMER XFMR TA 30KVA	2
3							5.10															4
5							5.10						15.10									6
7	UNIT HEATER #1 (10KW)				3.33			15	3		4.33			3	15						OVERHEAD ROLL UP DOORS #1 & #2	8
9					3.33																	10
11					3.33																	12
13					3.33						3.33			3	20						SPARE	14
15	UNIT HEATER #2 (10KW)				3.33			15	3		3.33			3	20							16
17					3.33																	18
19					0.50						0.50										SPARE	20
21	EXHAUST FAN #1 MS-EF1 (0.5HP)				0.50						0.50			3	20							22
23					0.50																	24
25	FUTUR PRESS #2 CONTROL PANEL						5.10				5.10											26
27							5.10				5.10											28
29							5.10				5.10											30
31	AIR COMPRESSOR				4.00			30	3		4.00											32
33					4.00						4.00											34
35					4.00																	36
37	SPACE										0.00											38
39	SPACE																					40
41	SPACE																					42
PRVIDE WITH INTEGAL SURGE PROTECTION DEVICE												32.36	32.36	32.36	60.60	0.00	21.48	15.00	0.00	0.00	CONNECTED KVA	97.08

PANEL LA																						
VOLTAGE: 208Y/120V		AMPS: 100 MB		MOUNTING: SURFACE		SURFACE		NOTES: NEMA 4X STAINLESS STEEL														
3 PHASE, 4 WIRE		TOTAL LOAD: 9.6 KVA		AIC: 10,000		AIC: 10,000																
No.	SERVES	LTG	RCPT	MTR	A/C	KITCH	MISC	BRKR	TRIP	P	A	B	C	BRKR	MISC	KITCH	A/C	MTR	RCPT	LTG	SERVES	No.
1	INT. LIGHTS	1.00						20	1		1.00										SPARE	2
3	HEAT TRACE						0.50	20	1													4
5	RECEPT (7)		1.26					20	1													6
7	RECEPT (5)		0.90					20	1		0.90											8
9	SPARE							20	1													10
11	EXT. LIGHTS	0.60						20	1			0.60										12
13	WATER HEATER						2.50	30	2		2.50											14
15							2.50				2.50											16
17	DUMPSTER LGTS	0.25						20	1			0.25										18
19	LIGHTING CONTACTOR						0.10	20	1		0.10											20
21	SPARE							20	1													22
23	SPARE							20	1													24
25	SPARE							20	1		0.00											26
27	SPARE							20	1													28
29	SPARE							20	1													30
												4.50	3.00	2.11	5.60	0.00	0.00	0.00	2.16	1.85	CONNECTED KVA	9.61

- NOTES:
- PROVIDE A GROUND FAULT CIRCUIT BREAKER RATED FOR RECEPTACLES.
  - PROVIDE A GROUND FAULT CIRCUIT BREAKER RATED FOR HEAT TRACE CIRCUITS.



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ONE LINE, SITE PLAN, NOTES AND SCHEDULES  
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DESIGN BY: DMZ  
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CHECKED BY: DMZ  
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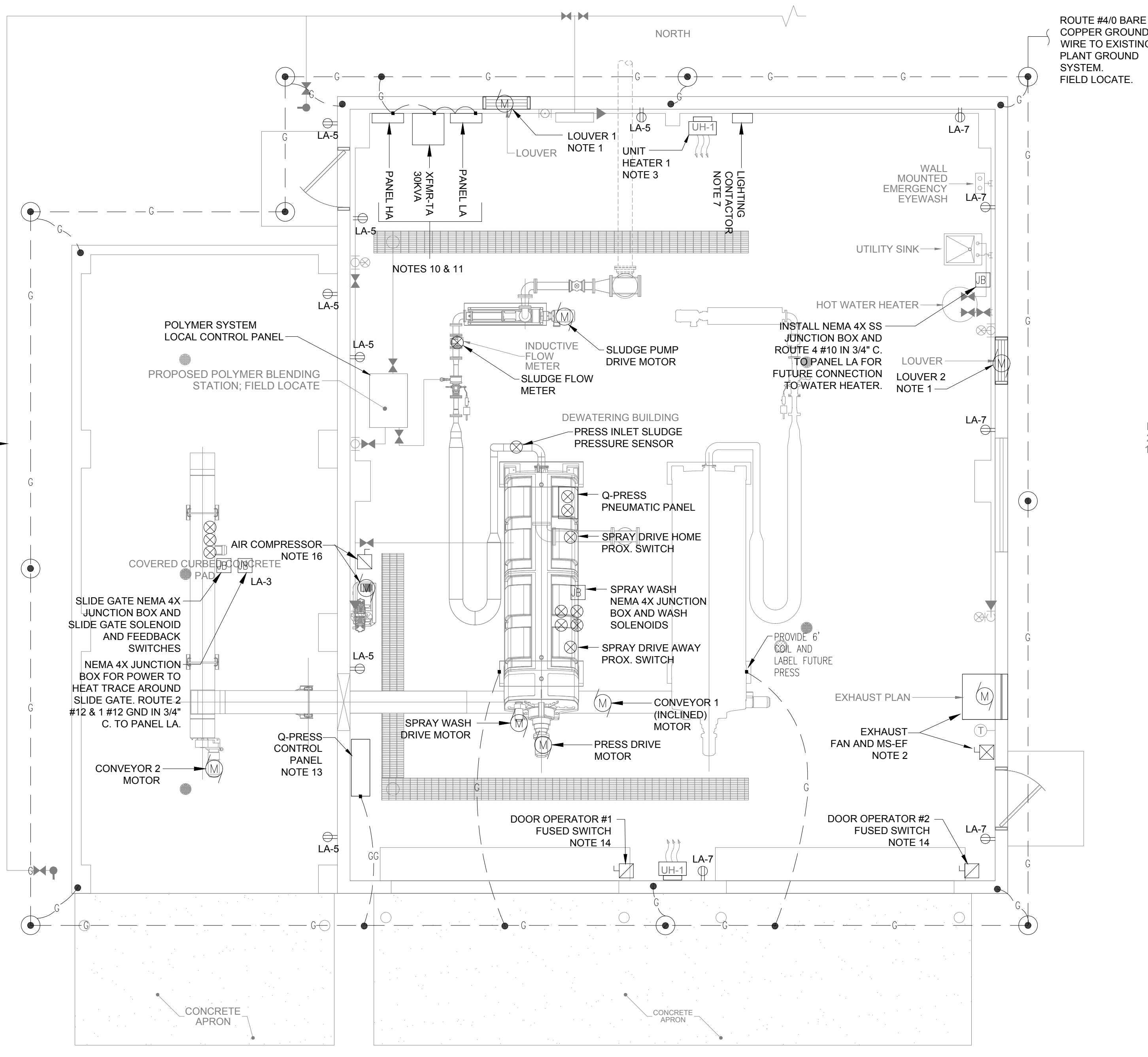
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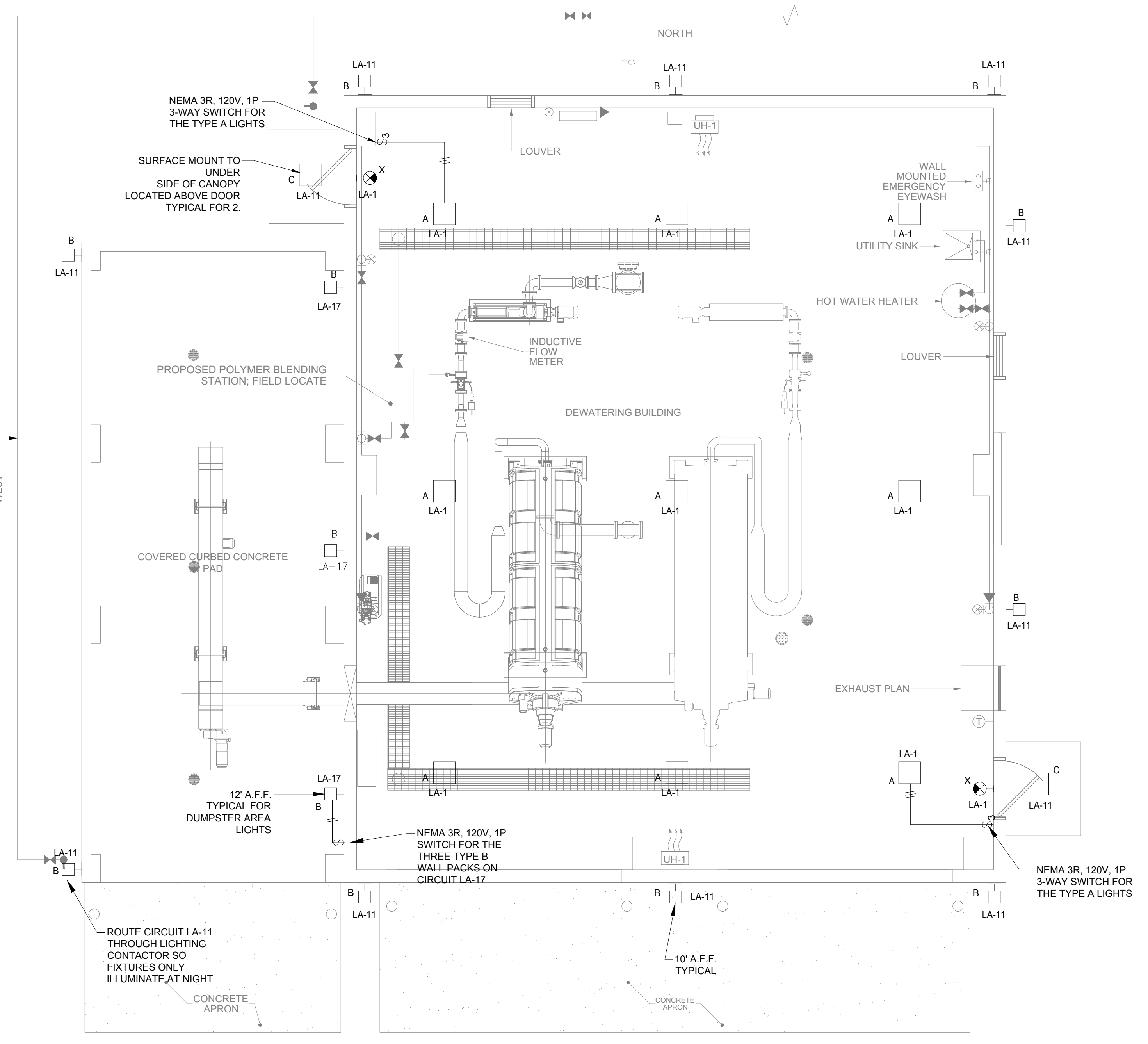
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ROSWELL, GA 30075  
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E1



**1 DEWATERING BUILDING ELECTRICAL FLOOR PLAN - POWER**  
Scale: 1/4"= 1'-0"



**2 DEWATERING BUILDING ELECTRICAL FLOOR PLAN - LIGHTING**  
Scale: 1/4"= 1'-0"

- NOTES:**
- PROVIDE A 120V, 1P, 1/8HP, SQUARE D MOTOR TOGGLE SWITCH FOR EACH LOUVER. ROUTE 3 #12 IN 3/4" C. FROM LOUVER, TO TOGGLE SWITCH, AND THEN TO MOTOR STARTER MS-EF.
  - EF-1, WALL MOUNTED EXHAUST FAN. CONTRACTOR SHALL INSTALL A COMBINATION MOTOR STARTER / DISCONNECT FOR THE 0.5HP, 480V, 3P EXHAUST FAN. SEE WIRING DIAGRAM ON 1-E-3 FOR REQUIREMENTS. ROUTE 3 #12 & 1 #12 GND IN 3/4" C. FROM MS-EF TO PANEL HA. INTERLOCK WITH LOUVERS 1 AND 2.
  - EUH-1 AND EUH-2, ELECTRIC UNIT HEATER (10KW, 480V, 3PH). PROVIDE 30A, 480V, 3P, NEMA 4X SS DISCONNECT SWITCH FOR EACH HEATER. ROUTE 3 #12 & 1 #12 GND IN 3/4" GND FROM HEATER TO DISCONNECT AND THEN TO PANEL HA.
  - ALL CONDUIT SHALL BE RIGID ALUMINUM.
  - ALL RECEPTACLES SHOWN SHALL BE WP, 120V, DUPLEX, 20A WITH ALUMINUM PLATES. MOUNT 18" A.F.F.
  - ALL FREESTANDING EQUIPMENT (TRANSFORMERS) SHALL BE INSTALLED ON A 4" HOUSE KEEPING PAD.
  - PROVIDE ASCO 918 LIGHTING CONTACTOR WITH 4 - 20A, 1 POLES FOR EXTERIOR LIGHTS. NEMA 4X ENCLOSURE WITH H-O-A SWITCH, AND REMOTE PHOTOCELL. ROUTE 2 #14 IN 3/4" C. BETWEEN PHOTOCELL AND PANEL FOR AUTO CONTROL. ROUTE EXTERIOR LIGHTING CIRCUITS THROUGH CONTACTORS. LOCATE PHOTOCELL ON EXTERIOR WALL FACING NORTH.
  - THE CANOPY LIGHT FIXTURES TYPE "A" SHALL BE MOUNTED AT THE SAME HEIGHT OFF FLOOR. FIELD LOCATE LIGHTS SUCH THAT THEY ARE NOT LOCATED ABOVE EQUIPMENT.
  - CONTRACTOR SHALL ROUTE AS MUCH CONDUIT IN FLOOR. COORDINATE EXACT STUB UP LOCATIONS WITH HUBER SHOP DRAWINGS.
  - MOUNT PANEL HA AND LA ON DUAL SUPPORT STAND PER DETAIL A ON SHEET 1-E.3. FIELD LOCATE EXACT LOCATIONS.
  - CONTRACTOR SHALL NOTE THAT A 2" WATER LINE WILL BE MOUNTED ABOVE ELECTRICAL EQUIPMENT. CONTRACTOR SHALL INSTALL A DRIP SHIELD BELOW WATER LINE TO PREVENT ANY LEAKS FROM DRIPPING ON EQUIPMENT.
  - ALL CONDUIT SHALL ENTER ENCLOSURES (PANEL HA, PANEL LA, HUBER Q-PRESS CONTROL PANEL FROM BOTTOM OR SIDE. DO NOT ENTER FROM TOP.
  - MOUNT Q-PRESS CONTROL PANEL TO DUAL SUPPORT STAND PER DETAIL A ON SHEET 1-E.3. FIELD COORDINATE EXACT LOCATION.
  - CONTRACTOR SHALL INSTALL A NEMA 4X STAINLESS STEEL FUSED DISCONNECT SWITCH FOR ELECTRIC OVERHEAD DOORS #1 AND #2. INSTALL 7A FUSES. ROUTE 3 #12 & 1 #12 IN 3/4" C. BETWEEN EACH DISCONNECT AND HOMERUN TO PANEL HA. CONTRACTOR IS RESPONSIBLE FOR ALL INTERCONNECTING WIRING AND CONDUIT (MOTOR, GEAR, CONTROLLER, HAND STATION, ETC.) ASSOCIATED WITH OVERHEAD DOOR.
  - CONTRACTOR SHALL NOTE THAT THE PRESS EQUIPMENT LOCATIONS ARE APPROXIMATE. FOR EXACT LOCATIONS, REFER TO HUBER SHOP DRAWINGS.
  - INSTALL NEMA 4X SS, 480V, 30A FUSED DISCONNECT SWITCH ADJACENT TO AIR COMPRESSOR AND ROUTE 3 #10 & 1 #10 GND IN 3/4" C. BETWEEN AIR COMPRESSOR AND DISCONNECT SWITCH AND HOME RUN TO PANEL HA. FUSE PER MANUFACTURER'S RECOMMENDATIONS.
  - CONTRACTOR SHALL ROUTE 2 #12 & 1 #12 GND IN 3/4" C. TO ALL 120V, 1P, 20A LOADS INCLUDING, BUT NOT LIMITED TO, LIGHTS, SWITCHES, AND RECEPTACLES.

LIGHTING FIXTURE SCHEDULE						
TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	MOUNTING	VOLT/PHASE	LAMP
A	□	LED CANOPY 14" x 14" DUST TIGHT & WATER TIGHT FIXTURE, 17,600 LUMENS (ADJUSTABLE)	COOPER CAT#CLCS40S-LED-86-SM-PENDANT	PENDANT 18'-0" AFF	120V/1PH	LED 120 WATTS
B	□	LED WALL PACK, DARK BRONZE LOCATED OUTDOORS (250W EQUIVALENT)	LITHONIA CAT #TWX2 54W/6950 LUMENS LED ALO 40K MVOLT DDBTXD (NO PHOTOCCELL)	PENDANT 10'-0" AFF	120V/1PH	LED 56 WATTS
C	□	LED CANOPY 11" x 14" DUST TIGHT & WATER TIGHT FIXTURE, 5,500 LUMENS	COOPER CAT#CLCS15-LED-40-SM-SURFACE	SURFACE (ABOVE DOOR)	120V/1PH	LED 40 WATTS
X	⊗	LED EXIT SIGN WITH INTEGRAL BATTERY PACK AND TWO REMOTE LED HEADS	LITHONIA CAT #LHQM LED RED M6 LED W/ 2 HEADS AND BATTERY BACKUP	WALL OR CEILING	120V/1PH	LED

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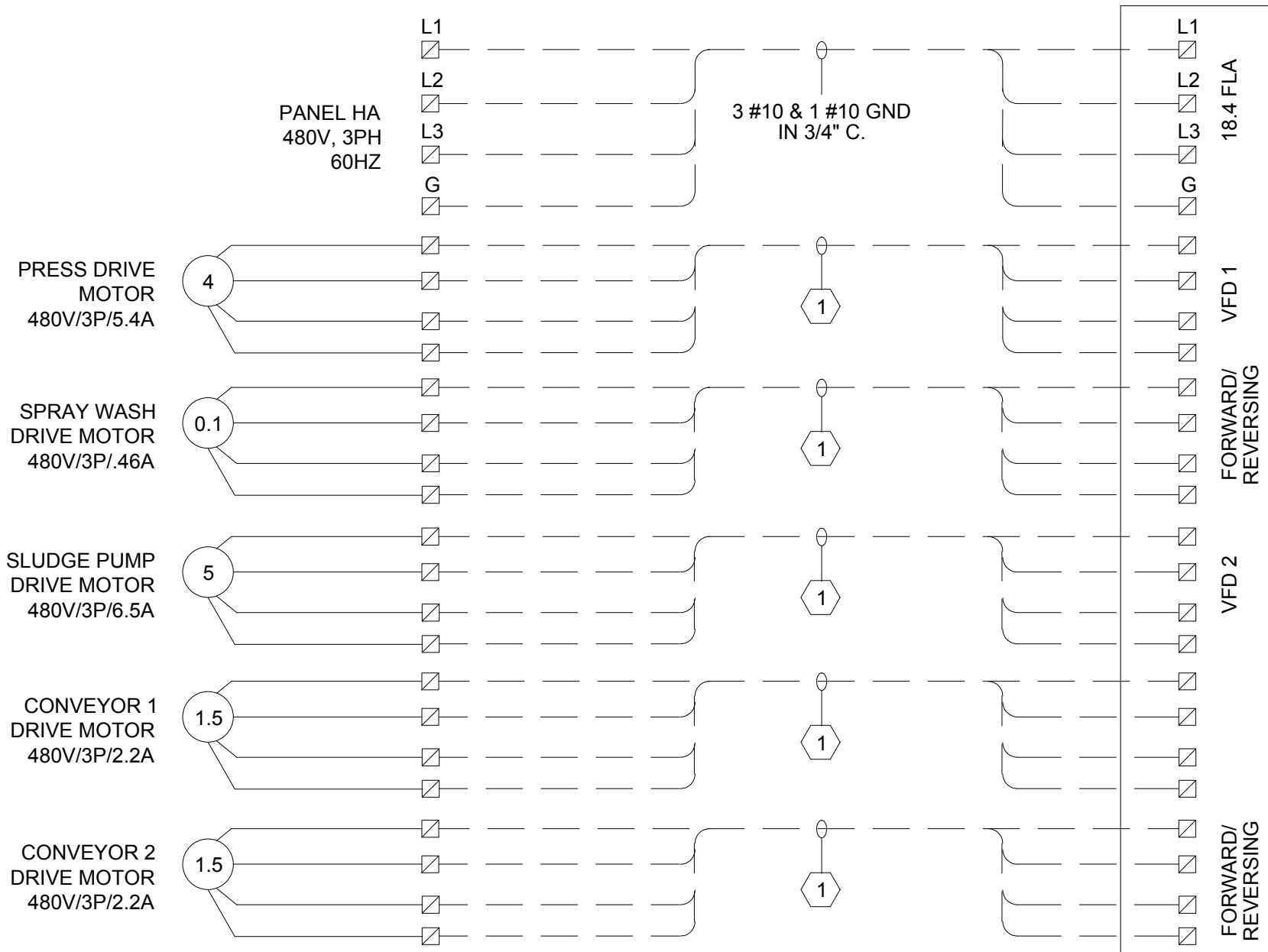
POWER, GROUNDING AND LIGHTING PLANS  
**SHEET TITLE**  
DESIGN BY: DMZ  
DRAWN BY: AVK  
CHECKED BY: DMZ

PROFESSIONAL ENGINEER  
DAVID M. ZIMMER  
No. 36980  
04/24/24

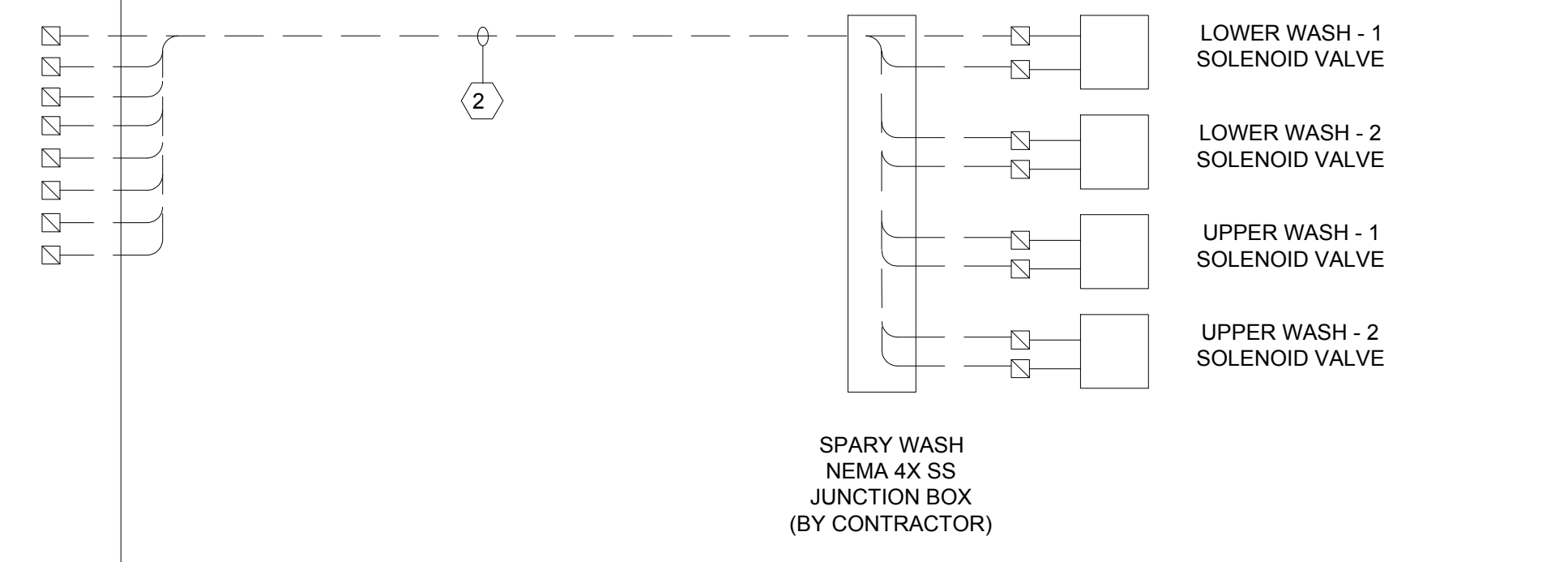
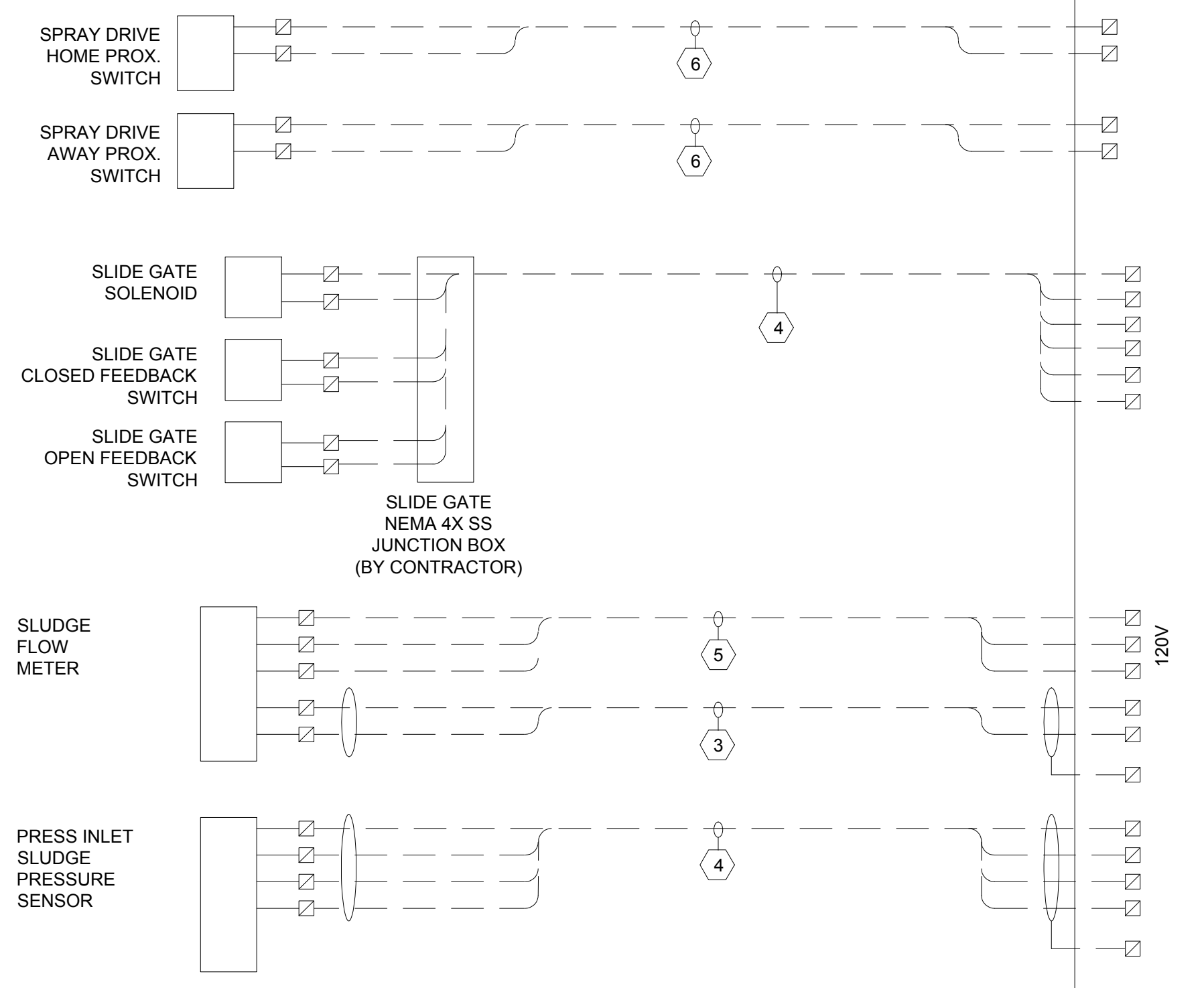
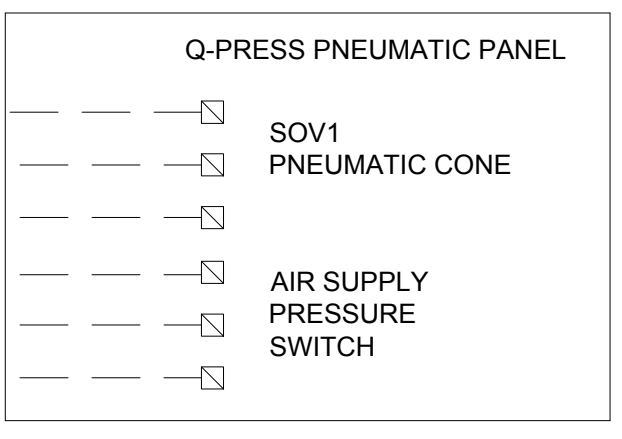
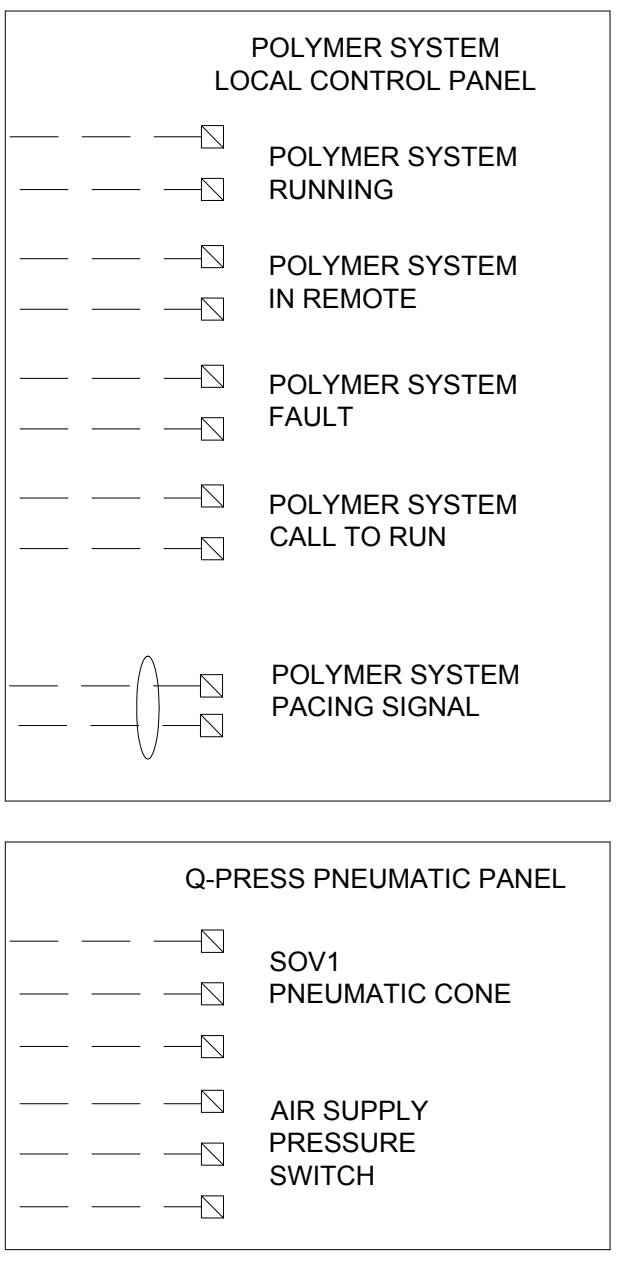
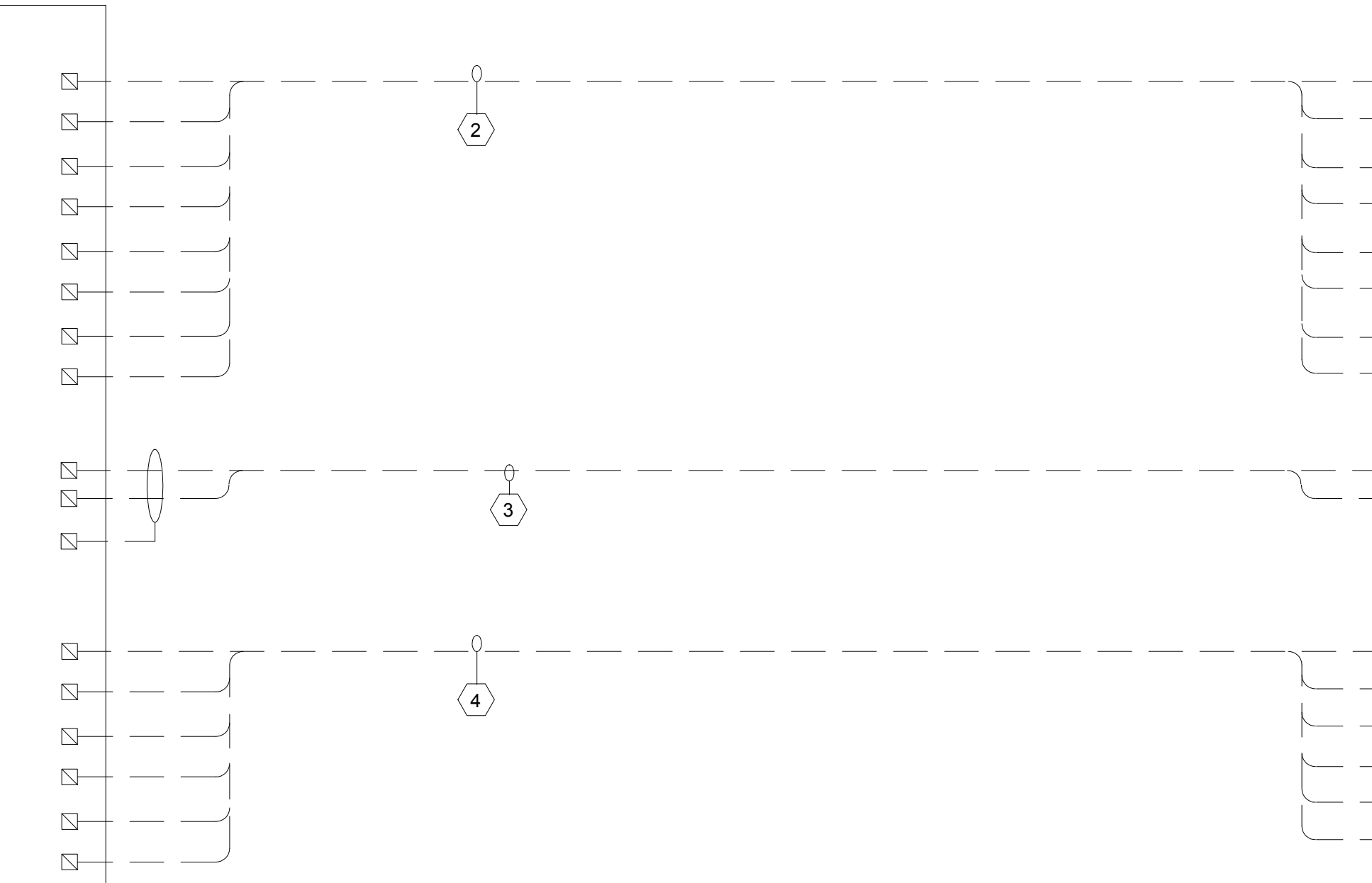
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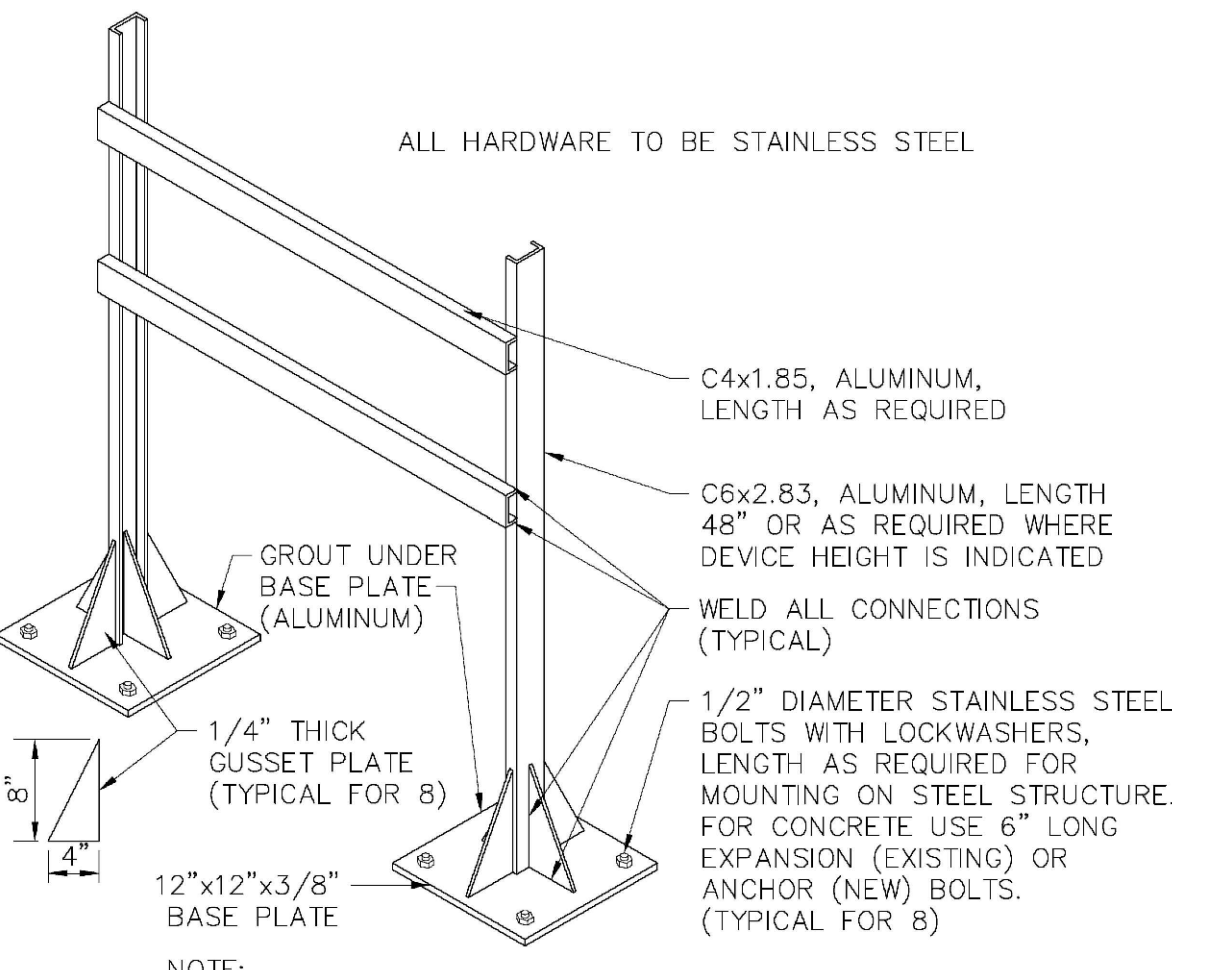
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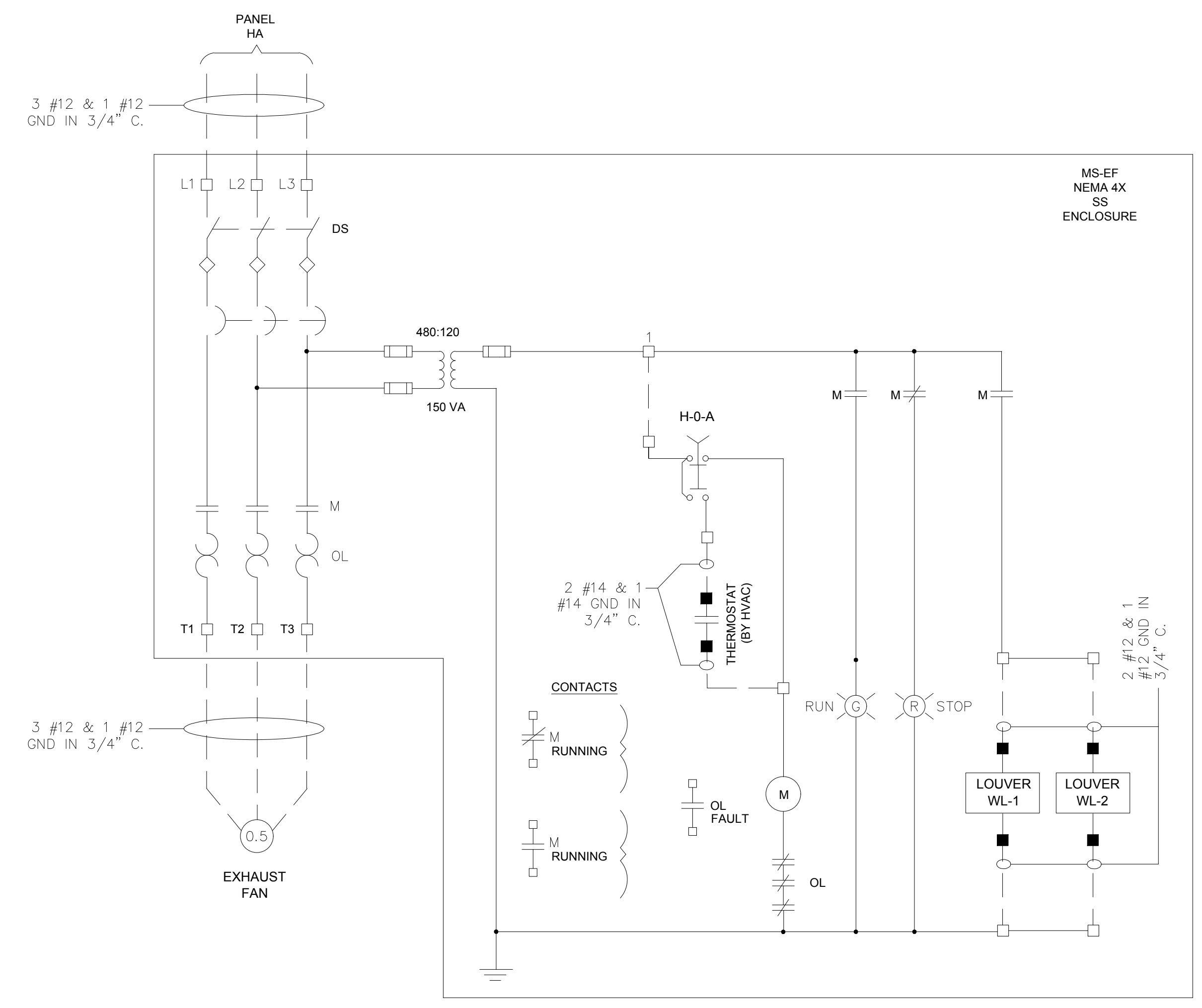
HUBER Q-PRESS CONTROL PANEL (BY VENDOR) 60"Hx36"Wx12"D STAINLESS STEEL WALL MOUNT



**NOTES:**  
 1. THE CONTRACTOR IS RESPONSIBLE FOR ALL INTERCONNECTING FIELD WIRING & CONDUIT AS SHOWN ON THE VENDOR SHOP DRAWINGS. SEE VENDOR SHOP DRAWINGS PRIOR TO INSTALLING CONDUIT AND CABLES.  
 2. THE CONTRACTOR SHALL PROVIDE WIRE LABELS ON EACH END OF THE CONTROL WIRES. WIRE LABELS SHALL BE BASED ON TERMINAL BLOCKS AS SHOWN ON VENDOR SHOP DRAWINGS.  
 3. #14 CONTROL WIRING SHALL BE RED PER SPECIFICATIONS.  
 4. CONTRACTOR SHALL MOUNT PANEL.



CABLE/CONDUIT SCHEDULE	
①	3 #12, 2 #14 (TSH), 3 #14 (SPHTR), & 1 #12 GND IN 3/4" C.
②	8 #14 & 4 #14 SPARE IN 3/4" C.
③	#16 TWISTED SHIELDED PAIR IN 3/4" C.
④	6 #14 & 4 #14 SPARE IN 3/4" C.
⑤	2 #12 & 1 #12 GND IN 3/4" C.
⑥	2 #14 IN 3/4" C.



MS-EF (EXHAUST FAN) SCHEMATIC

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ELECTRICAL SCHEMATIC  
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PROFESSIONAL ENGINEER  
 No. 38080  
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**DAVID M. ZIMMER**  
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