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 TX FIRM NO. 1452

MIKE L. ASHCRAFT  
 4089  
 04/03/24

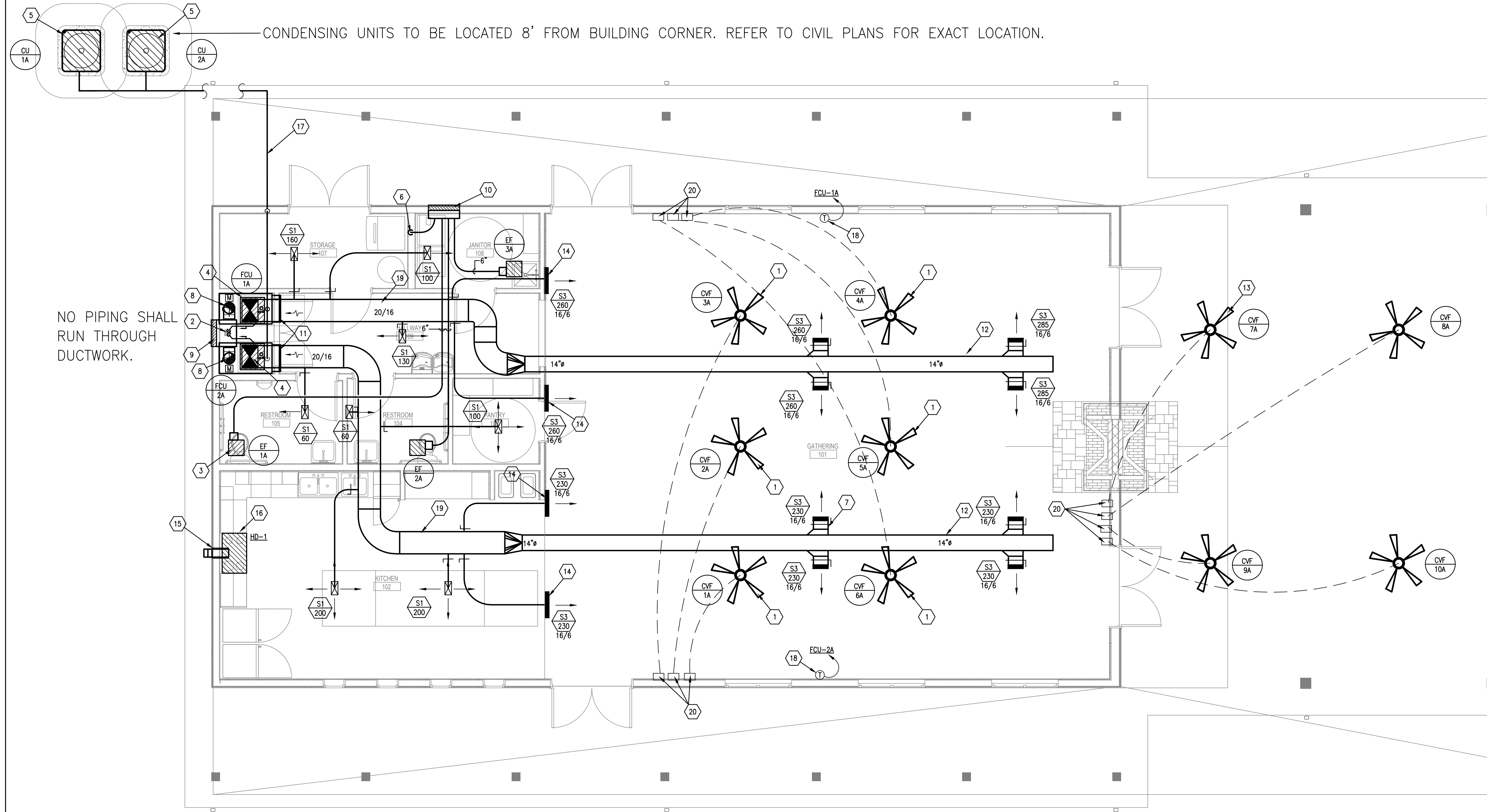
**GENERAL NOTES**

- A. REFER TO SHEET M7.01 FOR ADDITIONAL GENERAL NOTES AND SYMBOLS AND LEGEND.
- B. PROVIDE 3/4" MINIMUM UNDERCUT FOR ALL INTERIOR DOORS.

**KEY NOTES**

NOTE: REFERENCE NUMBER INSIDE HEXAGON

1. 52" INDOOR SENTINEL WITH LED LIGHT CEILING FAN BY HUNTER FAN CO. FINISHES PER ARCHITECT.
2. PROVIDE P-TRAP, SLOP AND RUN CONDENSATE DRAIN LINES TOWARD FLOOR DRAIN AND TERMINATE WITH 1" GAP.
3. CEILING CABINET EXHAUST FAN WITH INTEGRAL GRILLE, TYPICAL.
4. UP FLOW FAN COIL UNIT WITH ELECTRICAL HEAT MOUNTED ON GALVANIZED PLENUM PLATFORM. THE PLATFORM SHALL BE MOUNTED ON 4" HOUSEKEEPING PAD. PROVIDE PROPER CLEARANCE FOR FILTER PULL THROUGH CLOSET DOORS; DOORS FRAMES SHALL NOT INTERFERE WITH FILTER REPLACEMENT. PROVIDE FLEX CONNECTION TO SUPPLY AIR DUCT OUTLET AND OUTSIDE AIR INTAKE DUCT. INSULATE, JACKET, SUPPORT AND RUN REFRIGERANT LINES TO THE ASSOCIATED CONDENSING UNIT. REFRIGERANT LINES SIZE, ACCESSORIES AND INSTALLATION SHALL BE PER MANUFACTURER RECOMMENDATIONS. TRAP, SLOPE AND RUN CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN IN THE SAME CLOSET. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. CONDENSING UNIT MOUNTED ON 4" HOUSEKEEPING PAD WITH NEOPRENE ISOLATION PAD. INSULATE, JACKET AND RUN REFRIGERANT LINES TO RESPECTIVE FAN COIL UNIT. SIZE REFRIGERANT LINES PER MANUFACTURER RECOMMENDATIONS. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
6. 4" OR MANUFACTURER RECOMMENDATION DRYER VENT WHICH EVER IS BIGGER TO WALL CAP WITH BACKDRAFT DAMPER (NO BIRD SCREEN ALLOWED). REFER TO DETAIL SHEET FOR INSTALLATION.
7. REFER 6/M802 FOR SUPPLY AIR INSTALLATION DETAILS.
8. 10" OUTSIDE AIR DUCT, PROVIDE VOLUME AND MOTORIZED DAMPER AND INTERLOCK WITH UNIT BLOWER.
9. 24/16 (50% FREE AREA) STORM PROOF OUTSIDE AIR INTAKE WALL LOUVER WITH INSECT SCREEN. FINISHES PER ARCHITECT.
10. 28/12 STORM PROOF EXHAUST WALL LOUVER WITH INSECT SCREEN MOUNTED AS HIGH AS POSSIBLE. REFER TO 07/M8.02 FOR DETAILS. FINISHES PER ARCHITECT. ALL ITEMS ENTERING EXHAUST PLENUM MUST MEET FIRE RATING PER SPECS.
11. 24/16 TYPE R1 RETURN AIR GRILLE.
12. EXPOSED DOUBLE WALL ROUND SPIRAL SUPPLY DUCT HOT DIPPED GALVANIZED STEEL, WITH 1-1/2 INCH INSULATION AND PAINTED PER ARCHITECT REQUIREMENTS. COORDINATE ROUTING WITH STRUCTURE. REFER TO 01/M8.02 FOR DETAILS.
13. 52" OUTDOOR SENTINEL WITH LED LIGHT CEILING FAN BY HUNTER FAN CO. FINISHES PER ARCHITECT.
14. DOUBLE DEFLECTION, WALL MOUNTED SUPPLY GRILLES MOUNTED AS LOW AS POSSIBLE SO OWNER'S ARTIFACTS CAN BE INSTALLED JUST ABOVE GRILLES.
15. CONNECT 3.5"/12" EXHAUST DUCT WITH FIRE WRAP TO WALL CAP WITH INSECT SCREEN AND BACK DRAFT DAMPER.
16. STAINLESS STEEL RANGE HOOD WITH INTEGRAL REAR EXHAUST FAN TO VENT TO THE OUTDOOR. ACCESSORIES AND INSTALLATION SHALL BE PER MANUFACTURER RECOMMENDATIONS AND CODE REQUIREMENTS.
17. REFRIGERANT LINES SIZE, ACCESSORIES AND INSTALLATION SHALL BE PER MANUFACTURER RECOMMENDATIONS. INSULATE, JACKET, SUPPORT AND RUN REFRIGERANT LINES TO RESPECTIVE FAN COIL UNITS. OUTDOOR REFRIGERANT LINES SHALL BE RUN UNDERGROUND WITH ADDITIONAL SLEEVE PROTECTION. REFER TO DETAIL 4 ON M8.01.
18. PROGRAMMABLE THERMOSTAT WITH TAMPER PROOF VENTILATED COVER. PROVIDE INSULATED MOUNTING PAD.
19. SINGLE WALL GALVANIZED STEEL DUCT WITH 2" EXTERNAL INSULATION.
20. REMOTE VENTILATION FAN CONTROLLER TO INCLUDE DIMMING LIGHTS AND FAN SPEED CONTROLS.



**01 GATHERING LODGE FLOOR PLAN - MECHANICAL**  
 SCALE: 1/4" = 1'-0"

**GUS ENGELING WMA**  
**GATHERING LODGE & BUNKHOUSES**  
 PROJECT NUMBER: 1211534

DATE: 04/03/2024  
 DESIGNED BY: ST  
 DRAWN BY: MD  
 REVIEWED BY: MA

REV	DATE	DESCRIPTION

**SHEET TITLE**  
 GATHERING LODGE FLOOR PLAN MECHANICAL

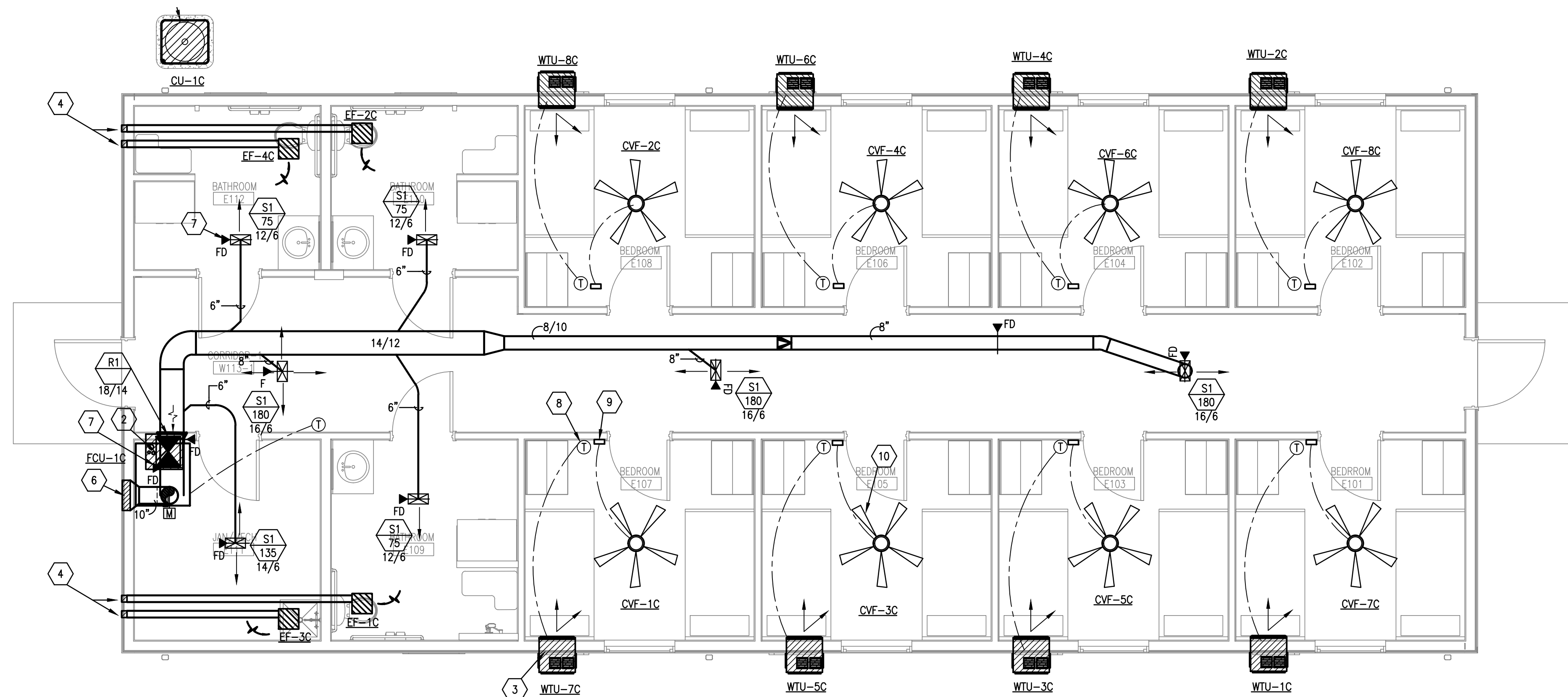
**SHEET NUMBER**  
 M2.01A



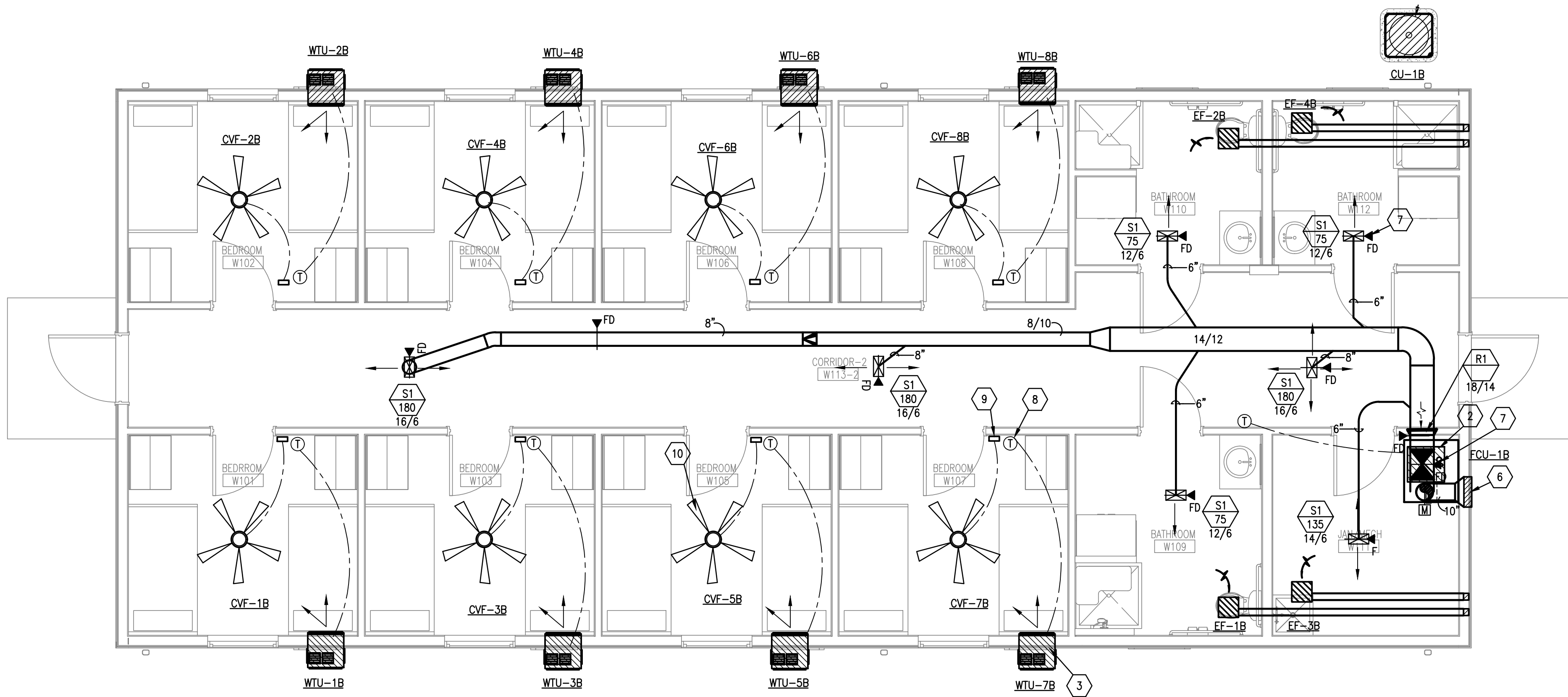
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04/03/24



**01 EAST BUNKHOUSE FLOOR PLAN - MECHANICAL (ALTERNATE #1)**  
 SCALE: 1/4" = 1'-0"



**02 WEST BUNKHOUSE FLOOR PLAN - MECHANICAL**  
 SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

A. REFER TO SHEET M7.01 FOR GENERAL NOTES AND SYMBOLS

**KEY NOTES**

NOTE: REFERENCE NUMBER INSIDE HEXAGON

- CONDENSING UNIT MOUNTED ON 4" HOUSEKEEPING PAD WITH NEOPRENE PAD. CONCRETE PAD SHALL EXTEND 6" ALL SIDES WITH CHAMFER CORNERS. INSULATE, JACKET AND RUN REFRIGERANT LINES TO ASSOCIATED FAN COIL UNIT. REFRIGERANT LINE SIZES, UNIT INSTALLATION AND CLEARANCE SHALL BE PER MANUFACTURER RECOMMENDATIONS.
- UP FLOW FAN COIL UNIT WITH ELECTRICAL HEAT MOUNTED ON PLENUM BOX. PLENUM BOX SHALL BE TAPERED, BEDDED, SEALED AIR TIGHT WITH NO COMBUSTIBLE AND MOUNTED ON 4" HOUSEKEEPING PAD. INSULATE, SUPPORT AND RUN REFRIGERANT LINES TO ASSOCIATED CONDENSING UNIT. REFRIGERANT LINES EXPOSED TO THE OUTDOOR SHALL BE JACKETED AS WELL. FAN COIL UNIT INSTALLATION AND ACCESSORIES SHALL BE PER MANUFACTURER RECOMMENDATIONS. REFER TO DETAIL 01/M8.01 FOR ADDITIONAL INFORMATION. SLOP AND RUN CONDENSATE DRAIN LINE FULL SIZE TO FLOOR DRAIN IN THE MECHANICAL ROOM.
- WALL THROUGH A/C UNIT WITH ELECTRICAL HEAT. PROVIDE ADEQUATE SEALING AND INSULATION AROUND SLEEVE FOR THERMAL AND WEATHER TIGHT PROTECTION. SUPPORT, ACCESSORIES AND INSTALLATION SHALL BE PER MANUFACTURER RECOMMENDATIONS. PROVIDE COMBINATION DRAIN KIT FOR OUTDOOR DRAINAGE. REFER TO ARCHITECTURAL DETAIL 6/A5.02 FOR MOUNTING HEIGHT, TYPICAL ALL WALL THROUGH UNITS.
- WALL MOUNTED EXHAUST FAN WITH INTEGRAL EXHAUST GRILLE. MOUNT FAN AT APPROXIMATELY 2 FT. BELOW CEILING. PROVIDE FLEX CONNECTION TO THE EXHAUST DUCT AND RUN EXHAUST VENT IN THE WALL CAVITY TO WALL CAP. FAN SUPPORT, INSTALLATION AND ACCESSORIES SHALL BE PER MANUFACTURER RECOMMENDATIONS, TYPICAL.
- 4" VENT TO WALL CAP WITH BIRD SCREEN AND BACK-DRAFT DAMPER, MOUNTED AS HIGH AS POSSIBLE.
- 18/8 STORM PROOF OUTSIDE AIR INTAKE WALL LOUVER WITH BIRD SCREEN. RUN 10" INSULATED DUCT TO MIXED AIR PLENUM. PROVIDE TWO POSITIONS, FULLY OPEN OR FULLY CLOSED, MOTORIZED DAMPER TO BE INTERLOCKED WITH THE BLOWER AND A MANUAL VOLUME DAMPER. LOUVER SHALL BE MOUNTED ABOUT 12" BELOW MECHANICAL ROOM CEILING.
- RADIATION DAMPER, SEE DETAILS, TYPICAL.
- WALL MOUNT, REMOTE WIRED AC UNIT CONTROLLER WITH (1) STAGE HEAT, (1) STAGE COOL, FIELD ADJUSTABLE CALIBRATION AND MANUAL CHANGE OVER. CONTROLLER MOUNTING HEIGHT SHALL BE PER ADA COMPLIANCE. PROVIDE LOW CONTROL VOLTAGE, TYPICAL.
- REMOTE VENTILATION FAN CONTROLLER TO INCLUDE DIMMING LIGHTS AND FAN SPEED CONTROLS, TYPICAL.
- ANSLEE WITH LIGHT 46" CEILING VENTILATION FAN BY HUNTER FAN CO, FINISHES PER ARCHITECT, TYPICAL.

**GUS ENGELING WMA**  
 GATHERING LODGE & BUNKHOUSES  
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 DRAWN BY: MD  
 REVIEWED BY: MA

REV	DATE	DESCRIPTION

**SHEET TITLE**  
 EAST & WEST  
 BUNKHOUSE  
 FLOOR PLANS  
 MECHANICAL

**SHEET NUMBER**  
 M2.01B







### WALL THROUGH A/C UNITS SCHEDULE

Table with columns for MARK, WTU-1B through WTU-8C, and rows for SERVES, TONNAGE, VOLTS/PH, MOCP, COOLING DATA, HEATING DATA, FILTER TYPE, MANUFACTURER, MODEL NO., and WEIGHT.

- REMARKS/NOTES ALL UNITS:
1 PROVIDE DISCONNECT SWITCHES AND MOTOR STARTERS. COORDINATE WITH THE ELECTRICAL CONTRACTOR.
2 PROVIDE WIRED REMOTE CONTROLLER AND LOW CONTROL VOLTAGE.
3 WINDOW UNIT SUPPORT AND INSTALLATION SHALL BE PER MANUFACTURER RECOMMENDATIONS.
4 UNIT WITH TWO FAN SPEEDS - HIGH AND LOW.
5 RUN FULL SIZE CONDENSATE DRAIN LINE TO THE OUTSIDE.
6 PROVIDE WINDOW KIT.
7 UNIT CHASSIS SHALL BE OF THE SLIDE OUT TYPE FOR EASY INSTALLATION AND SERVICE ACCESSIBILITY.
8 UNIT SHALL BE U.L LISTED.
9 UNIT SHALL COME WITH 4'0 LCDI POWER CORD; ELECTRICAL TO PROVIDE PERPENDICULAR PLUG; 20 AMP CIRCUIT BREAKER.
10 PROVIDE HIGH EFFICIENCY UNITS.

### AIR DEVICE SCHEDULE

Table with columns for MARK, SIZE, OBD, FINISH, THROW, NECK SIZE, MANUFACTURER/MODEL NO., and REMARKS/NOTES. Includes rows for S1 through E3.

- NOTES:
1 PROVIDE WITH APPROPRIATE MOUNTING FOR INSTALLED CEILING.
2 ALL ALUMINUM CONSTRUCTION.
3 PROVIDE WITH NECK AS INDICATED.
4 ALL NON-DUCTED RA GRILLES SHALL HAVE TYP. RA BOOT.
5 PROVIDE IN COLOR/FINISH AS DIRECTED BY ARCHITECT.
6 PROVIDE WITH RECTANGULAR TO ROUND TRANSITION.
7 DO NOT SCREW THRU FACE OF DEVICE UNLESS SCREW HOLES ARE PROVIDED BY MANUFACTURER.
8 SUPPLY TYPE DIFFUSERS
9 RETURN AND EXHAUST TYPE AIR DEVICES

### CEILING VENTILATION FANS SCHEDULE

Table with columns for MARK, LOCATION, FAN DATA, ELECTRICAL MOTOR DATA, DIAMETER, WEIGHT, MANUFACTURER/MODEL NO., and REMARKS/NOTES. Includes rows for CVF-1A through CVF-8C.

- NOTES:
1 MOUNTING ACCESSORIES SHALL BE PER MANUFACTURER RECOMMENDATIONS.
2 INTEGRAL DISCONNECT.
3 WALL CONTROLLER, MOUNTING HEIGHT PER ADA COMPLIANCE.
4 MAGNETIC MOTOR STARTER.
5 WITH 3 SPEEDS, LIGHT KIT COMPATIBLE, REVERSIBLE BLADES, REVERSIBLE MOTOR.
6 FIXTURE COLOR FAMILY TO BE BRONZE.
7 MANUFACTURER SHALL BE EQUAL HAMPTON BAY FANS.
8 BACK DRAFT DAMPER.
9 BIRD SCREEN.
10 FROSTED GLASS STYLE AND BRONZE HOUSING.
11 LIFE TIME FACTORY WARRANTY.
12 SPEED CONTROLLER.
13 ACCESSORIES AND INSTALLATION SHALL BE PER MANUFACTURER RECOMMENDATIONS. AND CODE REQUIREMENTS.
14 INDOOR/ OUTDOOR WET RATED FAN WITH 1-UL LISTED.
15 VERIFY EXTENSION TUBE LENGTH AND MOUNTING BRACKET WITH MANUFACTURER PRIOR TO ORDERING.
16 FIXTURE COLOR /FINISH TO BE MEDITERRANEAN BRONZE.
17 FURNISHED WITH INTEGRAL GRILLE.
18 CONTROLLED BY LIGHT SWITCH.
19 CONTROLLED BY WALL THERMOSTAT.
20 CONTROLLED BY WALL SWITCH.
21 LED LIGHT BULB TYPE, DRY RATED, PLYWOOD FAN BLADE MATERIAL, LIGHT KIT COMPATIBLE, REVERSIBLE BLADES, REVERSIBLE MOTOR.
22 CEILING FANS WITH 3 DIMMABLE LED 9.5W BULBS AND REVERSIBLE 3 SPEED MOTOR.
23 OUTDOOR, LOW PROFILE MOUNT WET RATED FAN.
24 WALL CONTROLLER, PROVIDE LOW VOLTAGE 0-10 VOLTS.
25 INDOOR, UNIVERSAL MOUNT, 1-UL LISTED.
26 FIXTURE COLOR FAMILY TO BE BLACK.
27 FIXTURE COLOR FINISH TO BE NATURAL IRON.
28 FAN BLADE MATERIAL ACRYLONITRILE BUTADIENE STYRENE

### SPLIT SYSTEM SCHEDULE

Table with columns for MARK, FCU-1A, FCU-2A, FCU-1B, FCU-1C, and rows for SERVES, TONNAGE, OUTSIDE AIR CFM, FAN DATA, COOLING COIL, HEATING DATA, ELECTRICAL DATA, CU DATA, FILTER TYPE AND RATING, MANUFACTURER, FAN COIL UNIT, CONDENSING UNIT, and WEIGHT.

- NOTES:
1 PROVIDE DISCONNECT SWITCH FOR EACH CIRCUIT.
2 SIZE INSULATE AND AND ROUTE REFRIGERANT LINES FROM CONDENSING UNIT TO FAN COIL UNIT.
3 PROVIDE TWO POSITION OUTSIDE AIR MOTORIZED DAMPER. INTERLOCK DAMPER WITH THE BLOWER FAN.
4 PROVIDE COMPATIBLE PROGRAMMABLE THERMOSTAT.
5 UNITS SHALL BE PROVIDED WITH MERV 8 FILTERS. PROVIDE 3 SETS OF FILTERS.
6 UNITS SHALL NOT BE OPERATED WITHOUT A FILTER OR GRILLE IN PLACE.
CONDENSING UNIT NOTES:
1 PROVIDE 4" HOUSEKEEPING PADS.
2 PROVIDE REFRIGERANT PIPING TO EVAPORATOR COIL SIZED AND ROUTED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS.
3 PROVIDE HIGH AND LOW PRESSURE SAFETIES.
4 PROVIDE LOW AMBIENT CAPABILITY TO 30F.
5 PROVIDE WITH HALL GUARD.
6 CONTRACTOR SHALL COORDINATE SIZE OF CONDENSING UNIT WITH BLOWER COIL.
7 PROVIDE ANTI-SHORT CYCLING TIMER.
8 PROVIDE DISCONNECT SWITCH.

### KITCHEN HOOD SCHEDULE

Table with columns for DESIGNATION, MANUFACTURER/MODEL #, LENGTH, MAX. COOKING TEMP., EXHAUST, ELECTRICAL, FILTERS, LIGHTS, HOOD CONSTRUCTION, WEIGHT, and NOTES & ACCESSORIES.

- NOTES:
1 HOOD SUPPORT AND INSTALLATION SHALL BE PER MANUFACTURER RECOMMENDATIONS AND IN COMPLIANCE WITH NFPA 101 AS WELL AS STATE AND LOCAL CODES.
2 STAINLESS STEEL HOOD SHALL COME WITH SELF-CONTAINED, REMOVABLE FOR SERVICING, FIRE SUPPRESSION SYSTEM, LIGHT AND FAN SWITCHES.
3 HOOD SHALL BE REAR DISCHARGE TYPE WITH INTEGRAL EXHAUST FAN, DISCONNECT SWITCH, FAN BOX, EXHAUST COLLAR, EXHAUST WALL CAP BACKDRAFT DAMPER, DISCHARGE INSECT SCREEN, AIR FILTER AND STAND-ALONE, REMOVABLE FOR SERVICING, FIRE SUPPRESSION SYSTEM.
4 PROVIDE CLOCK BOX WITH CONTROLLER AND USER INTERFACE TOUCHSCREEN. PROVIDE DEDICATED 110 VOLTS, COORDINATE WITH ELECTRICAL CONTRACTOR.
5 HOOD SHALL BE UL300A LISTED.
6 PROVIDE MANUAL PULL STATION KIT.
7 PROVIDE ELECTRIC DISCONNECT FOR APPLIANCE, COORDINATE WITH ELECTRICAL.

### EXHAUST FAN SCHEDULE

Table with columns for DESIGNATION, EF-1B, 2B, 3B & 4B, EF-1C, 2C, 3C & 4C, EF-1A, 2A & 3A, and rows for SERVING, CFM, DUCT SIZE, S.P., ELEC., HP, MANUFACTURER, SONES, DIMENSIONS, MODEL, REMARKS & ACCESSORIES.

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GUS ENGELING WMA GATHERING LODGE & BUNKHOUSES PROJECT NUMBER: 1211534

DATE: 04/03/2024 DESIGNED BY: ST DRAWN BY: MD REVIEWED BY: MA

SHEET TITLE SCHEDULES MECHANICAL

SHEET NUMBER M7.02

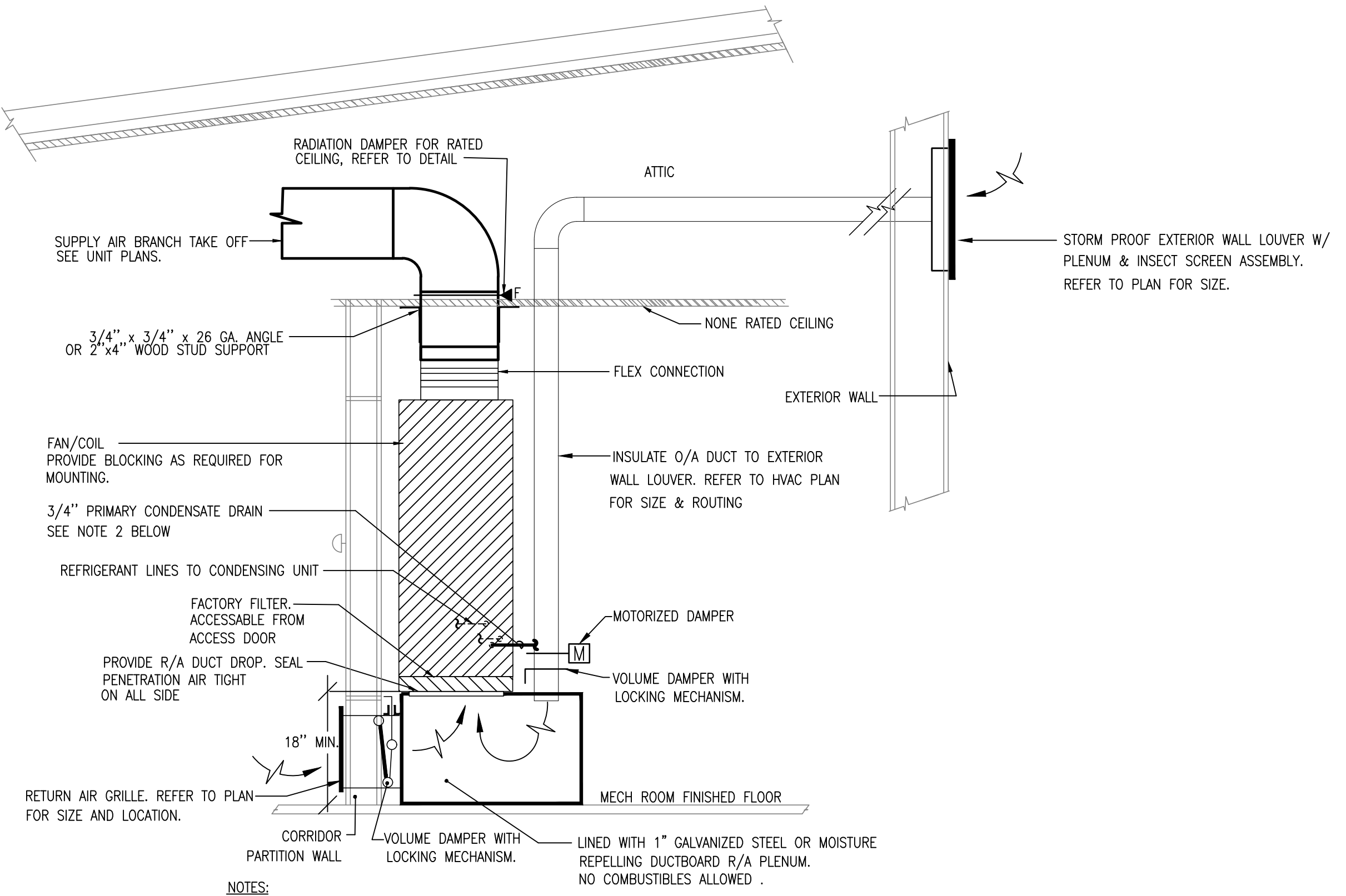


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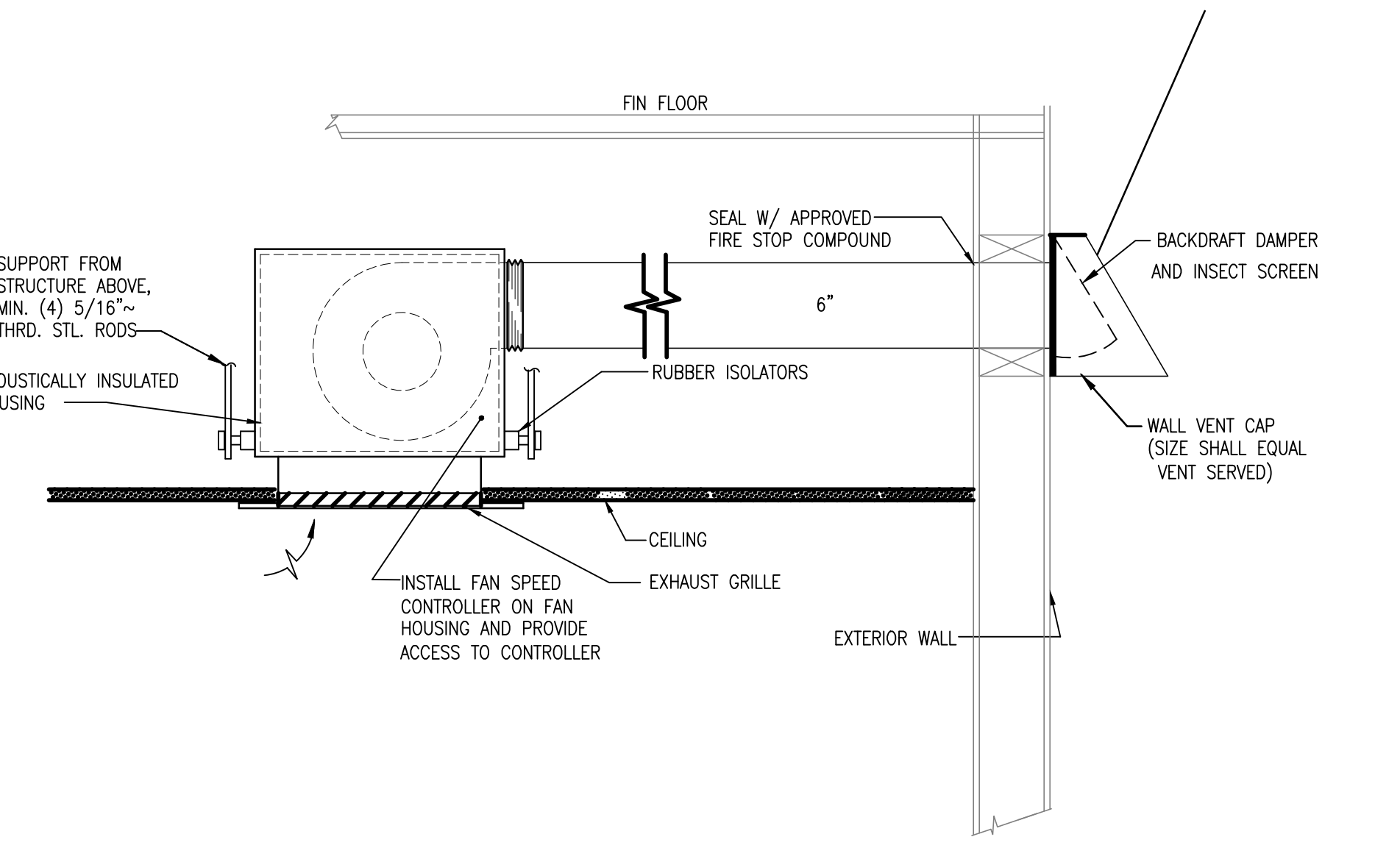
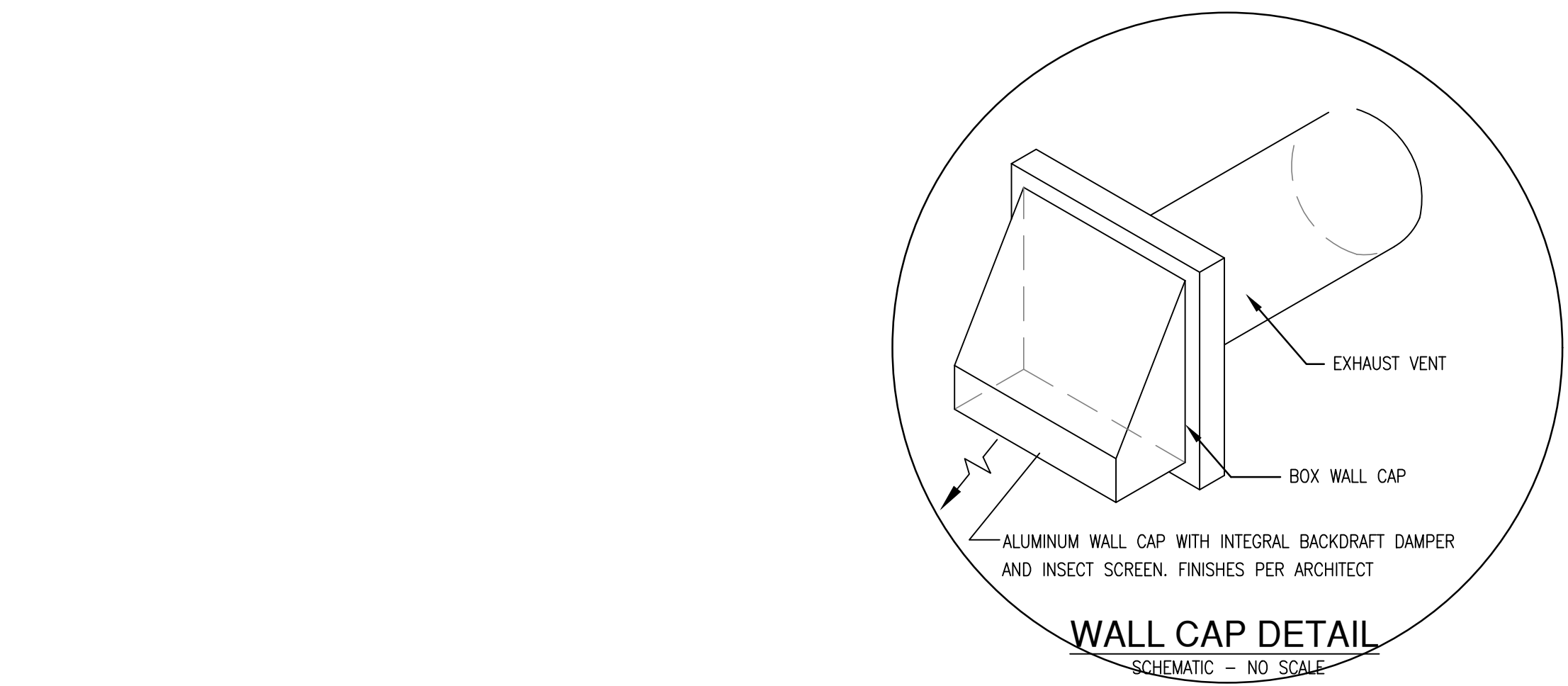
**SHEET TITLE**  
 DETAILS  
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**SHEET NUMBER**  
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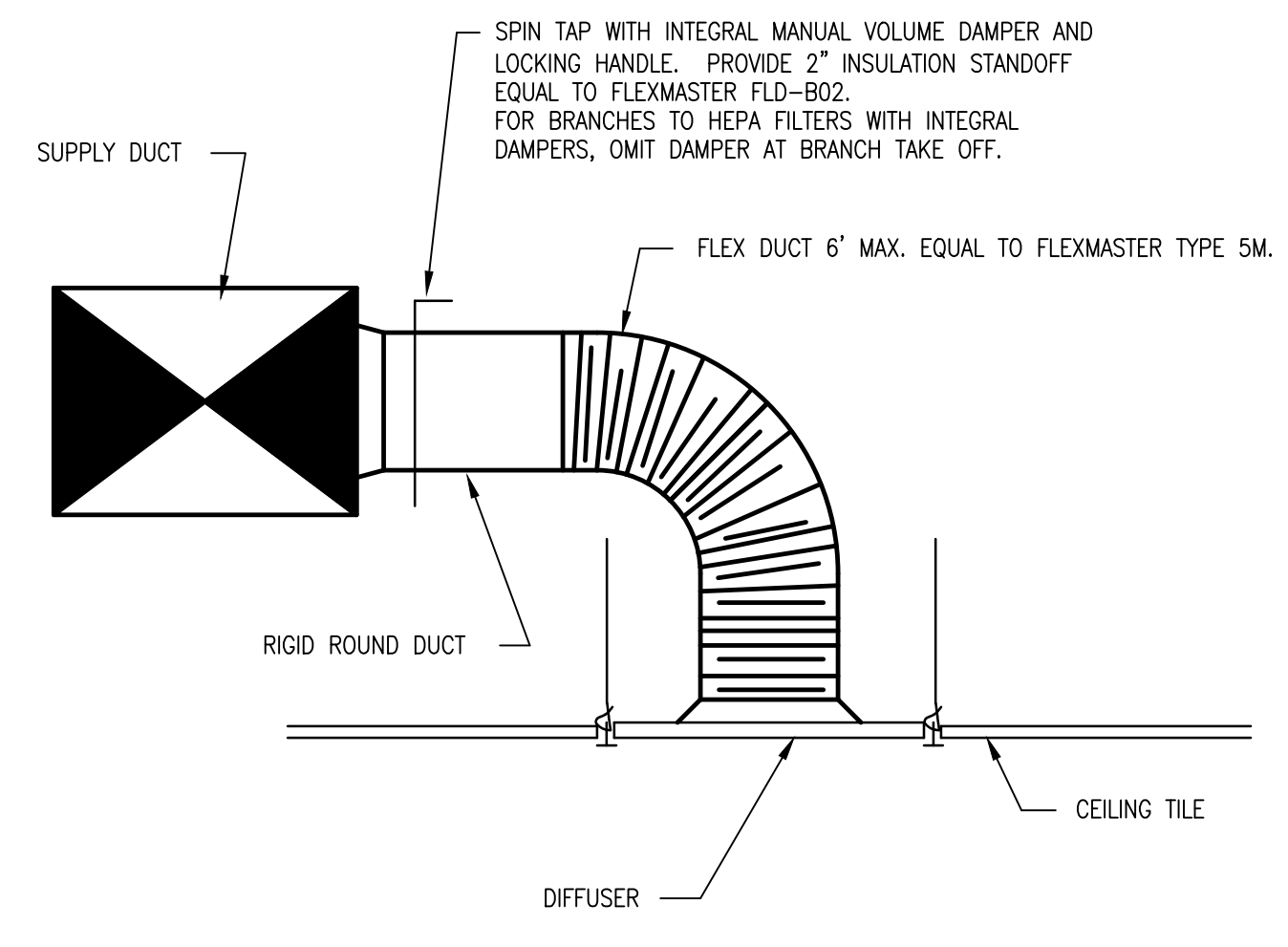
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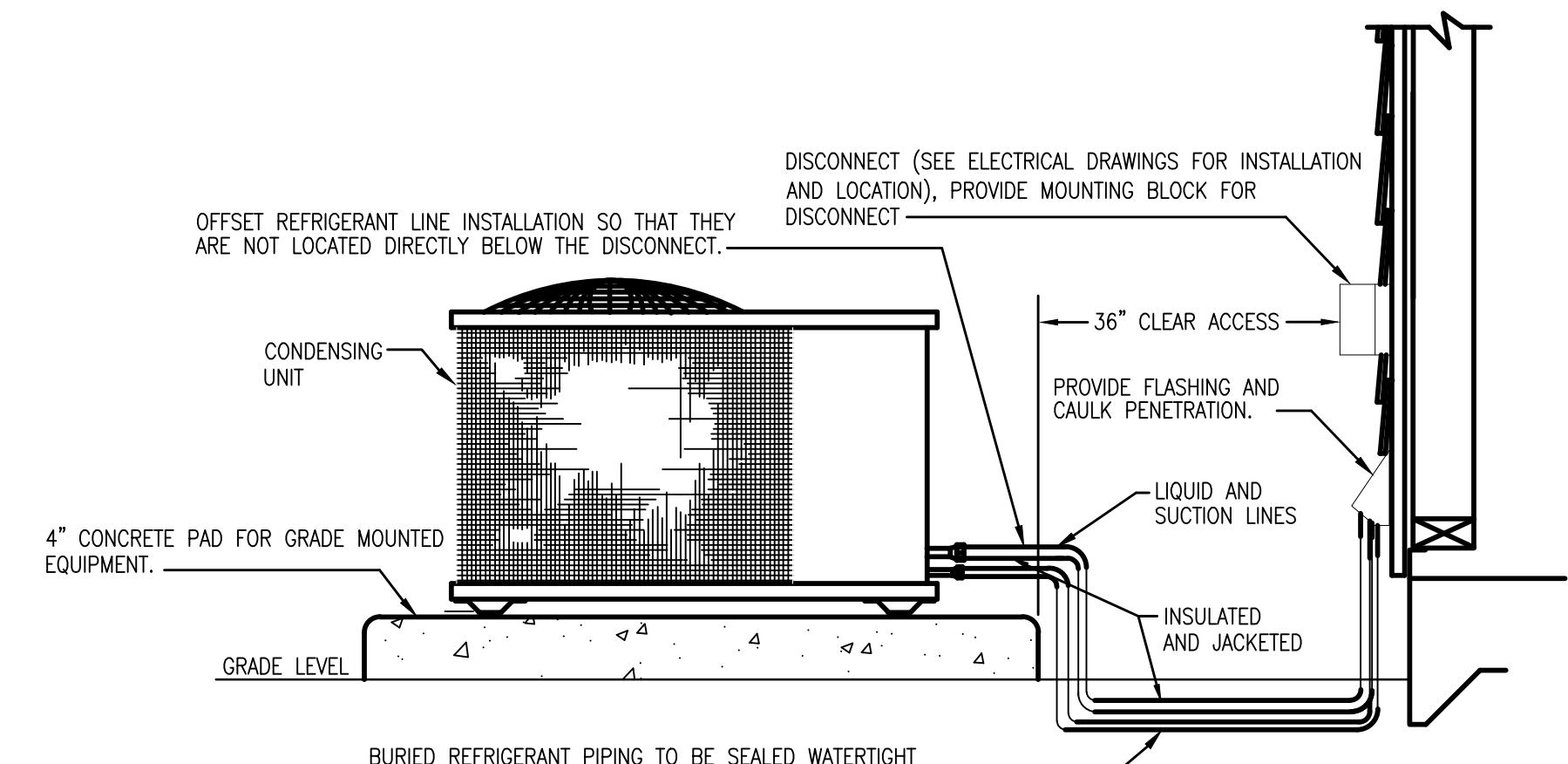
**01 UPFLOW FAN COIL UNIT WITH LOW RETURN DETAIL**  
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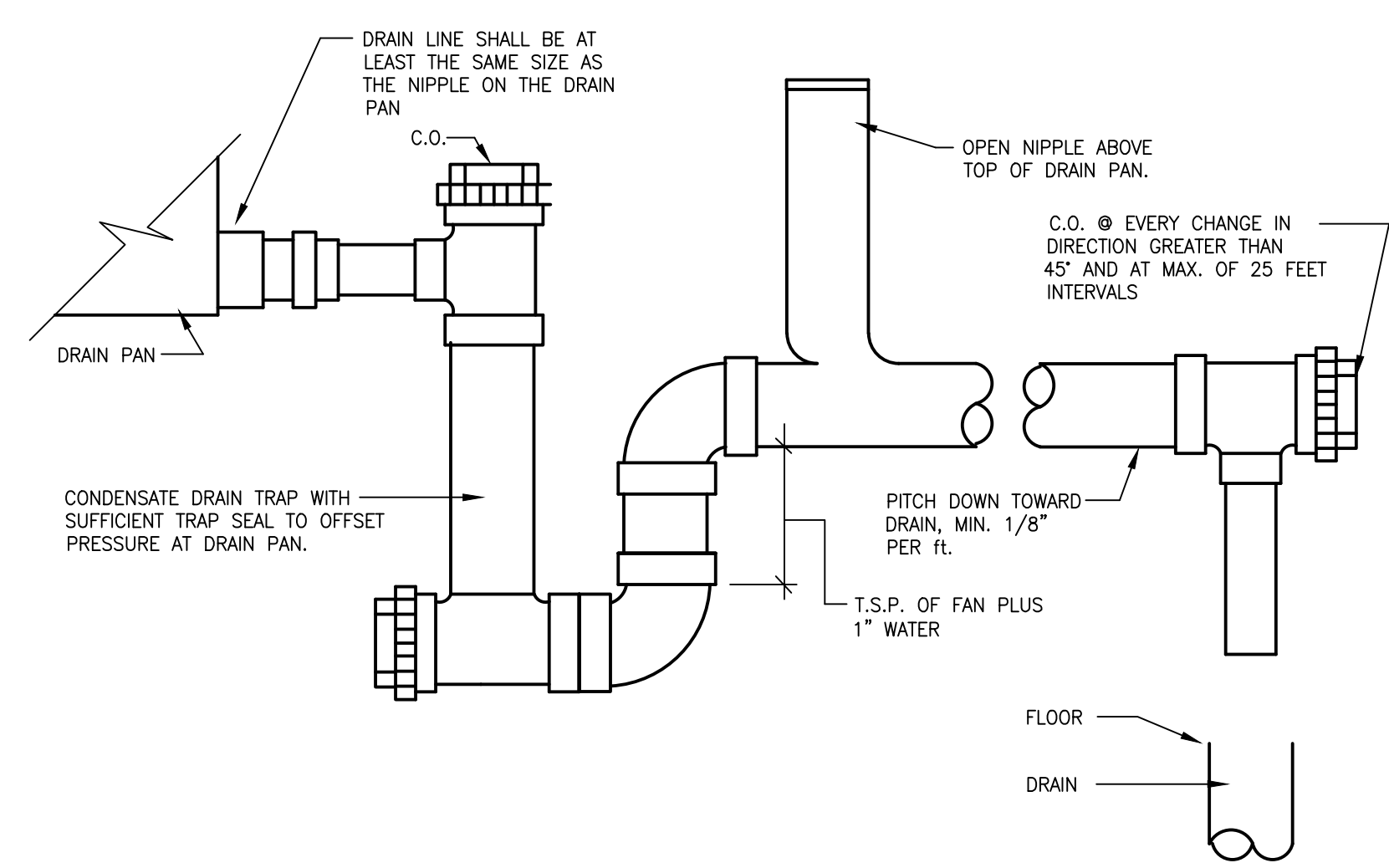
**06 EXHAUST FAN WITH INTEGRAL GRILLE DETAIL**  
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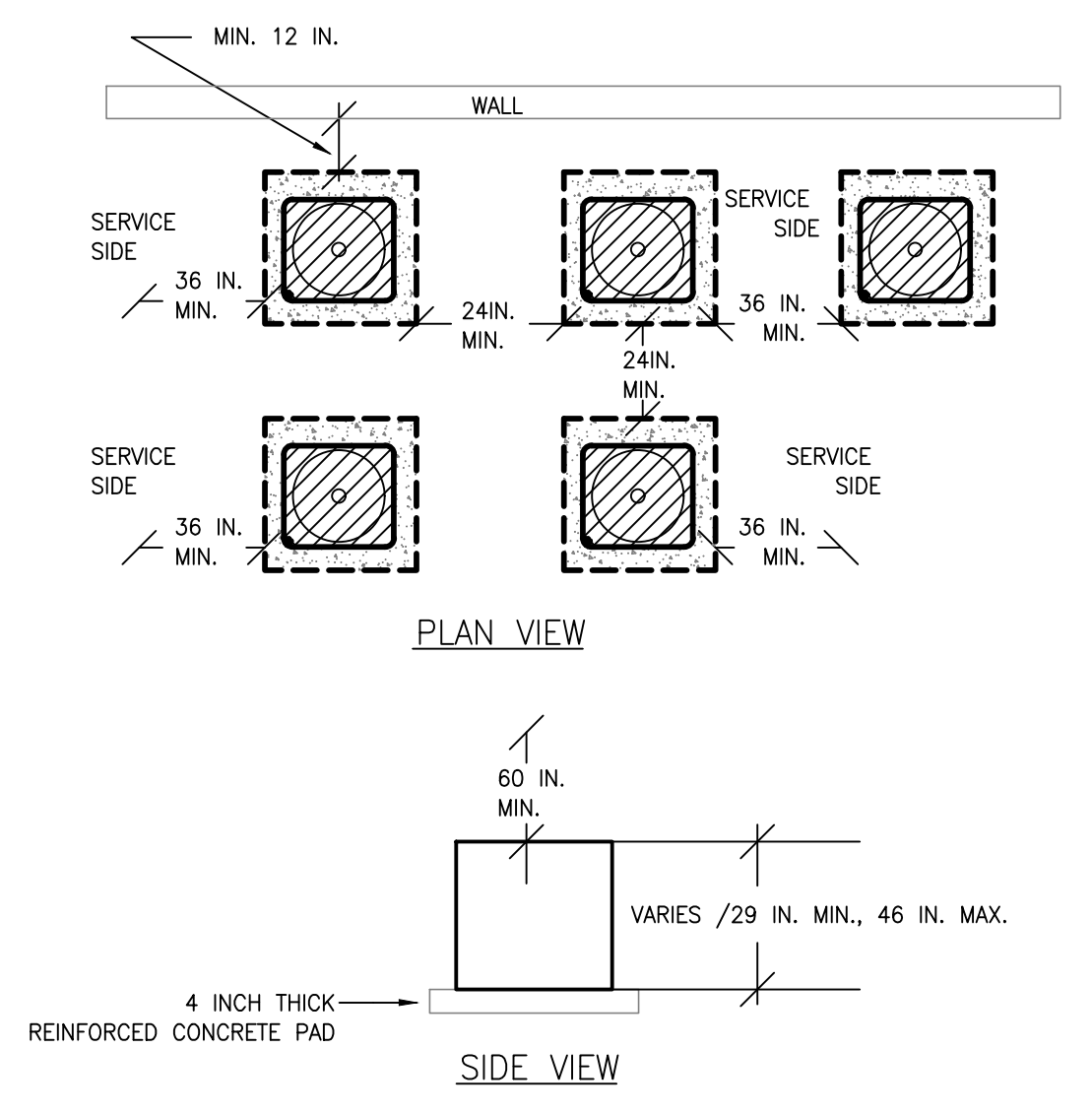
**02 DIFFUSER CONNECTION DETAIL**  
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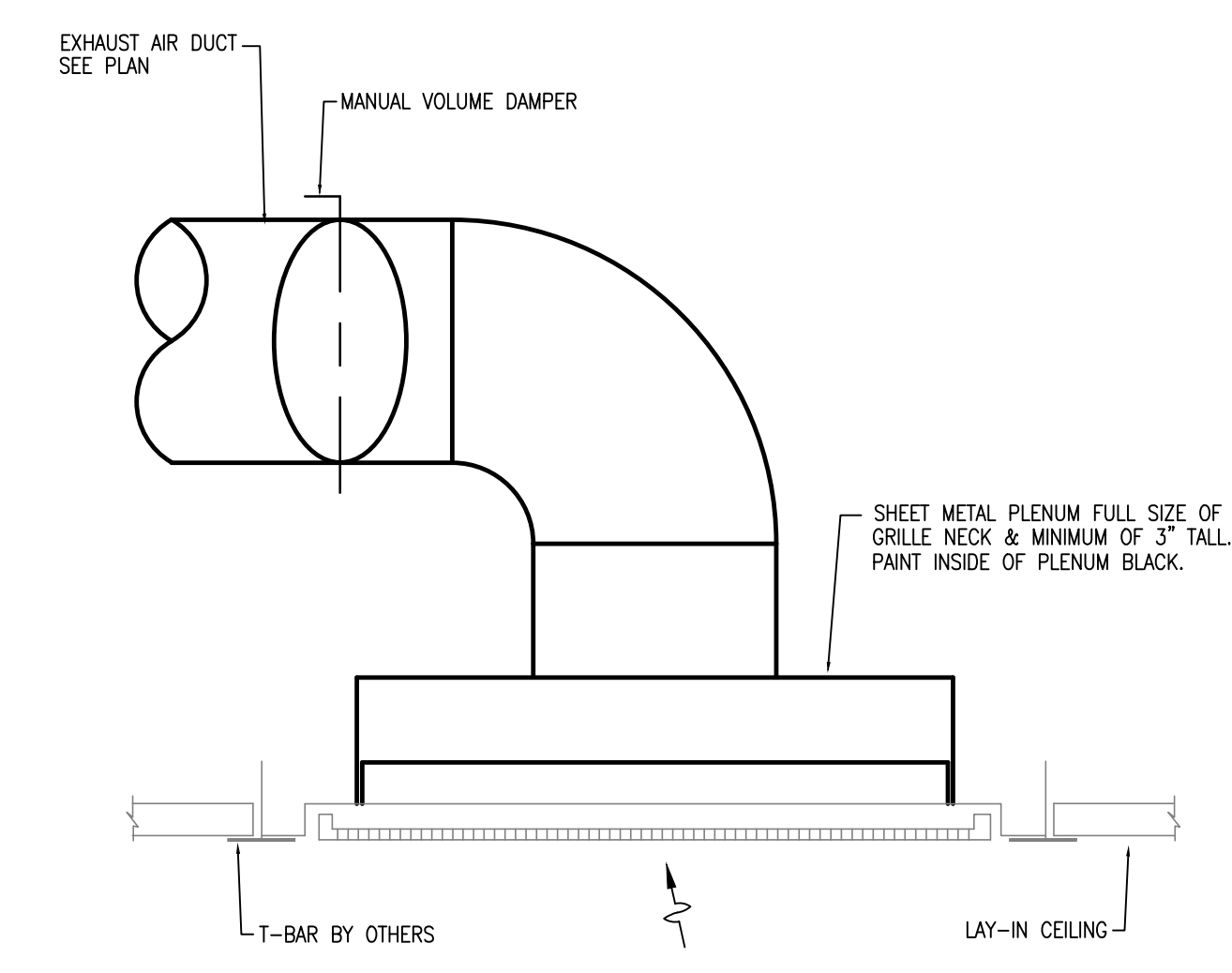
**04 CONDENSING UNIT DETAIL**  
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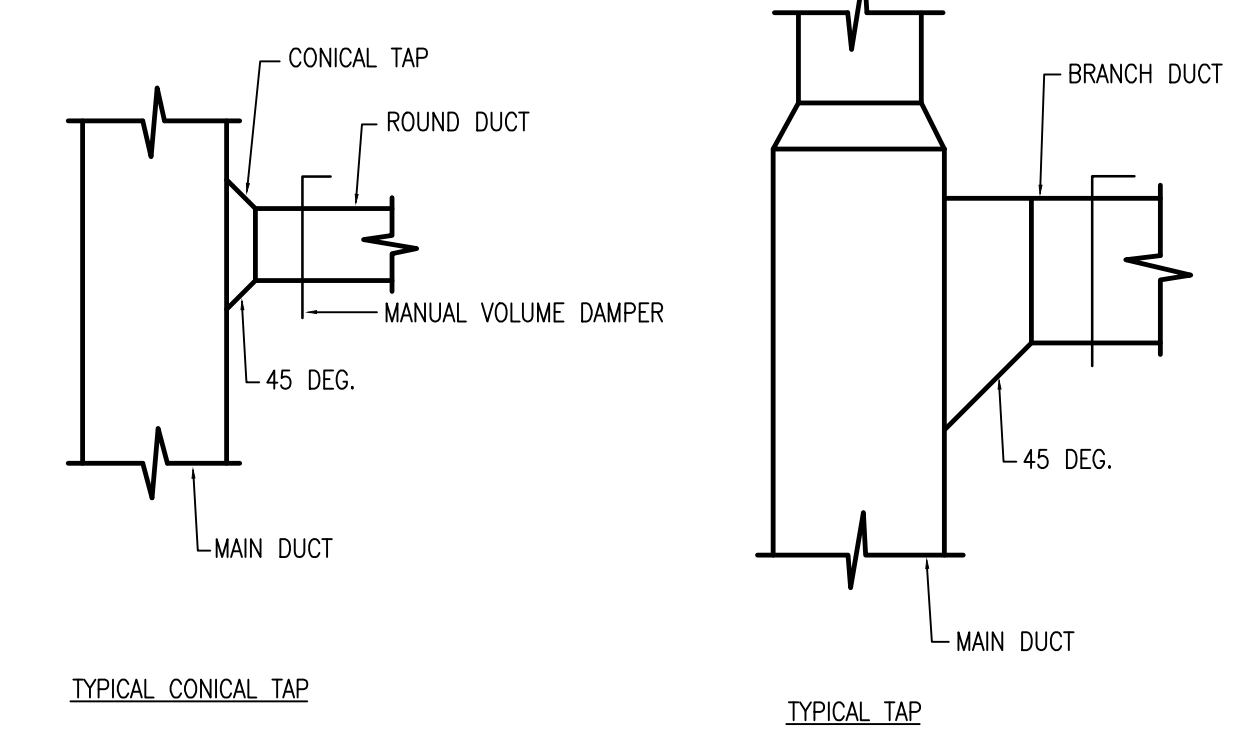
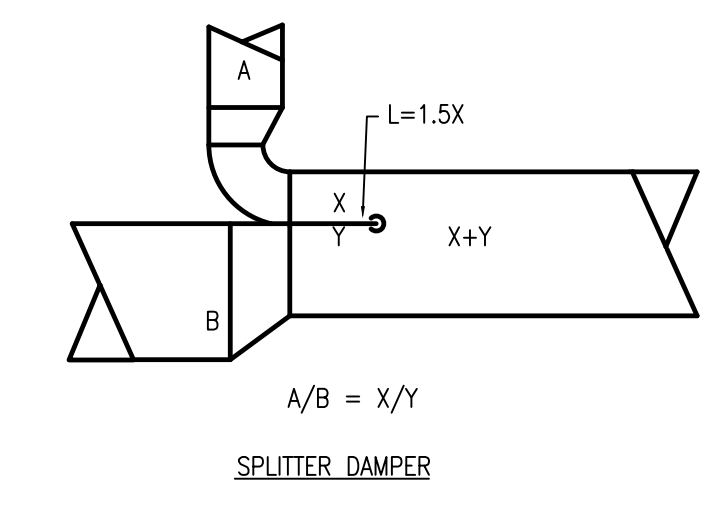
**07 CONDENSATE DRAIN TRAP DETAIL**  
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**03 CONDENSING UNIT CLEARANCE**  
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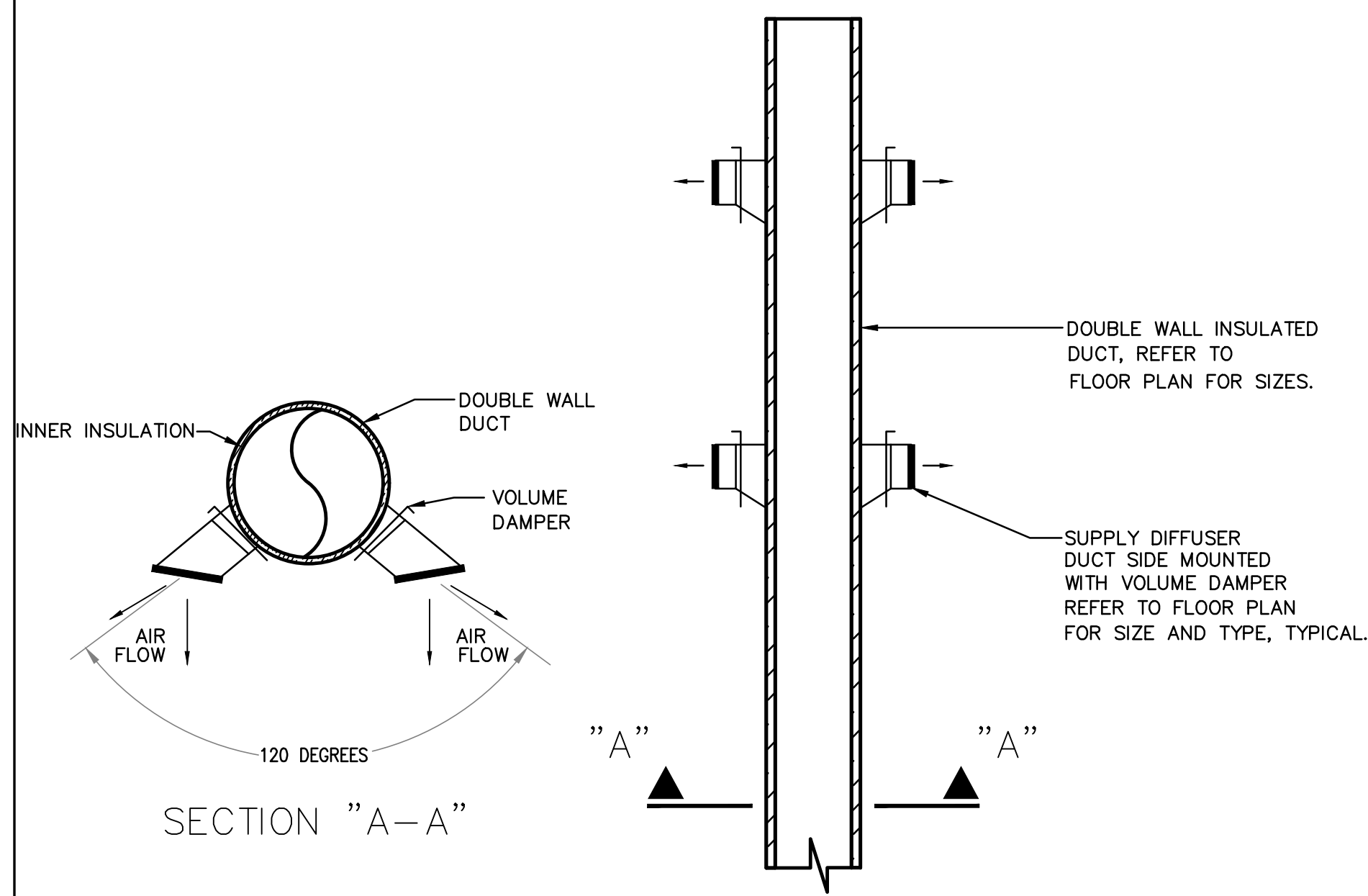


**05 EXHAUST AIR GRILLE DUCT CONNECTION**  
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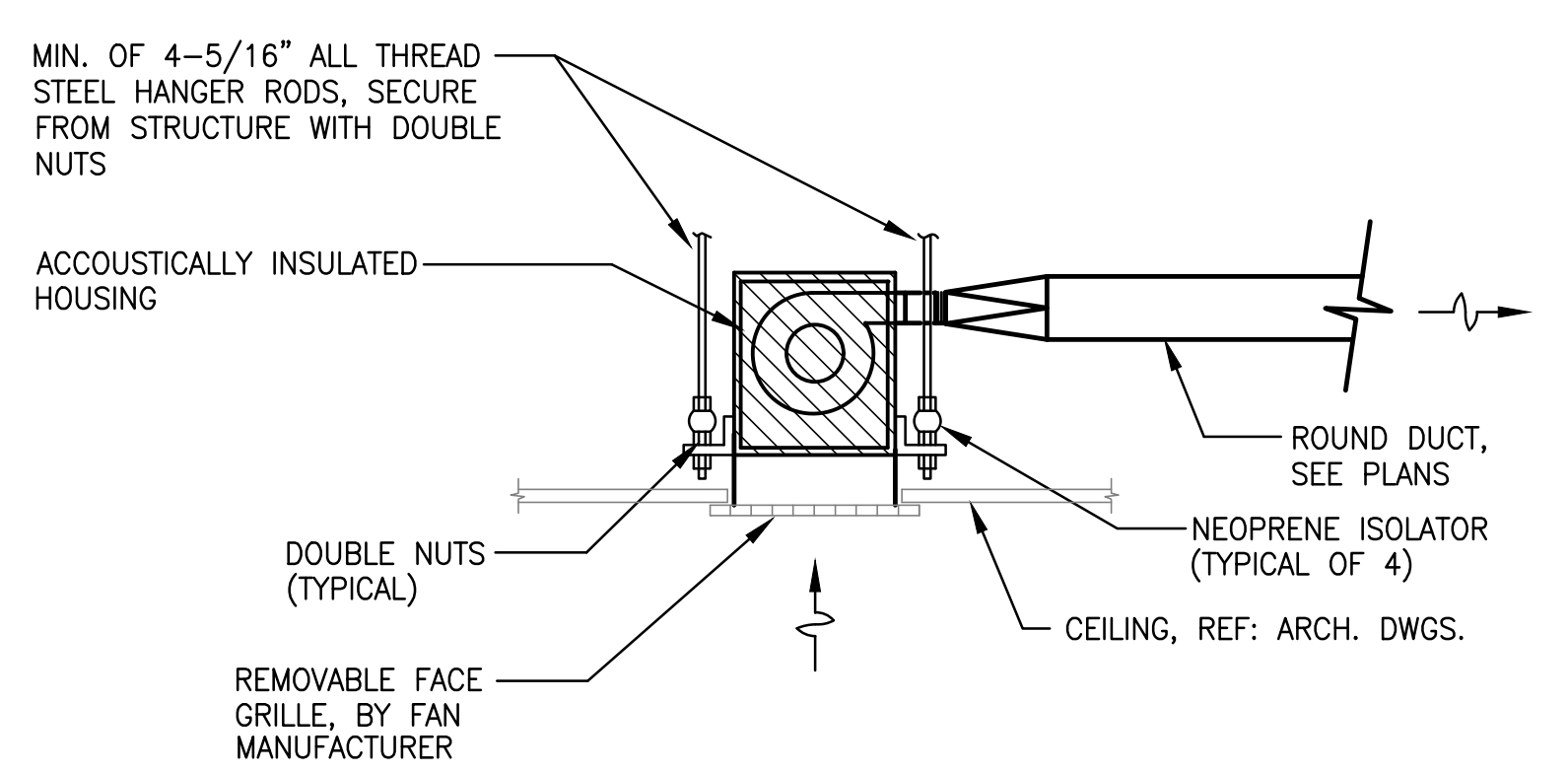
**08 LOW PRESSURE DUCT DETAILS**  
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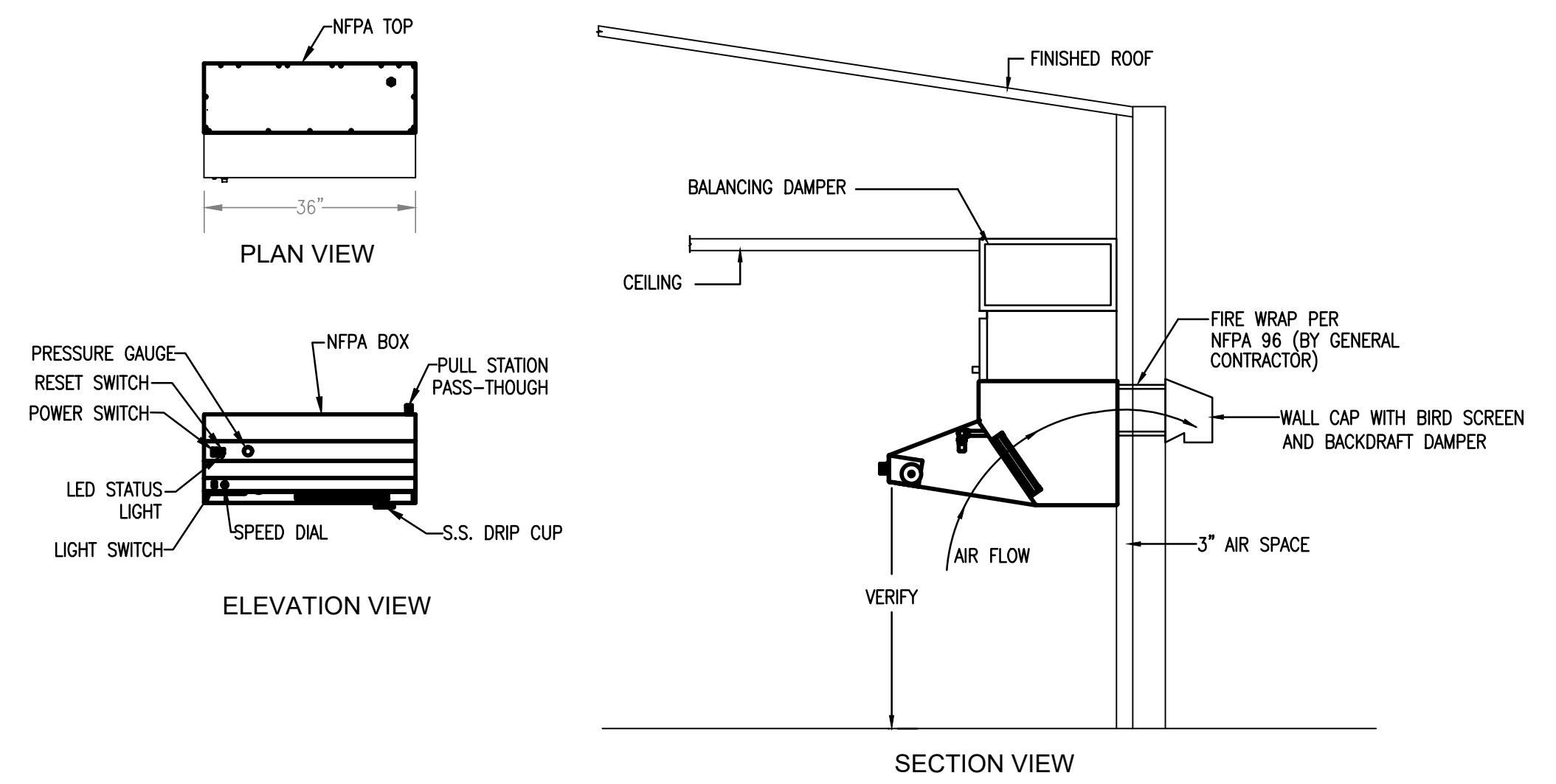


NOTE:  
1. PAINTING AND FINISHES OF AIR DEVICES AND DUCTWORK SHALL BE PER ARCHITECT.

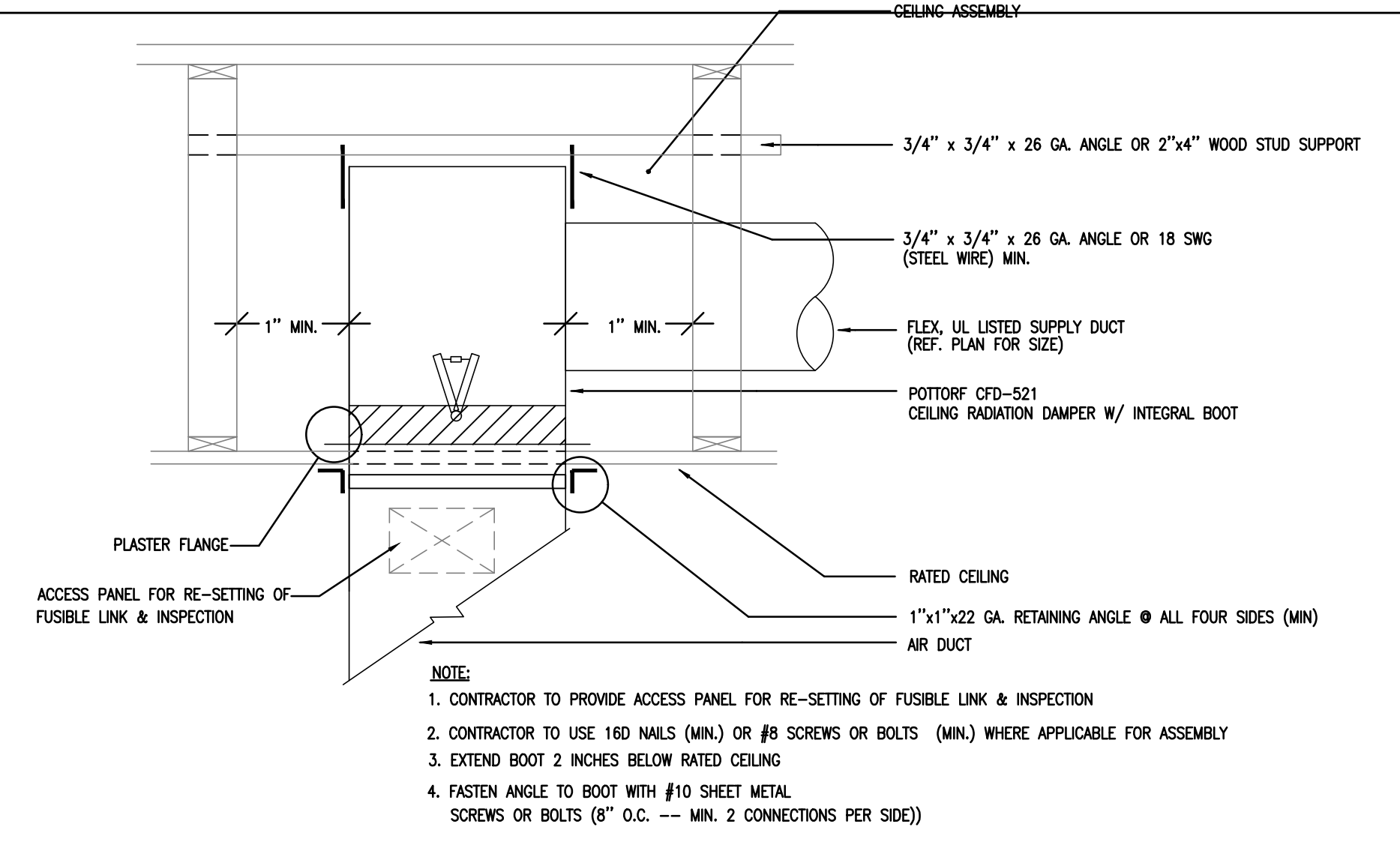
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GATHERING ROOM 101



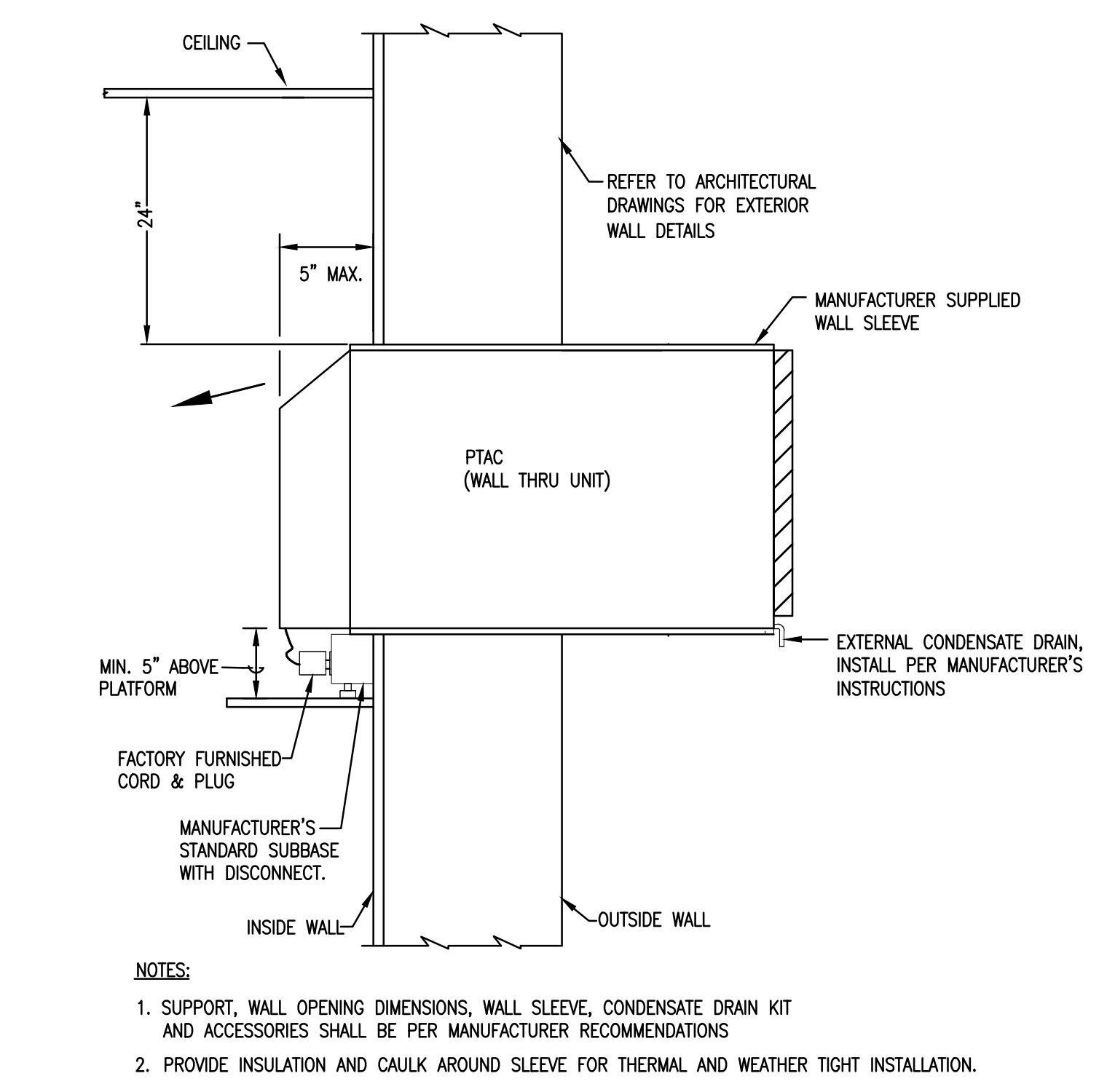
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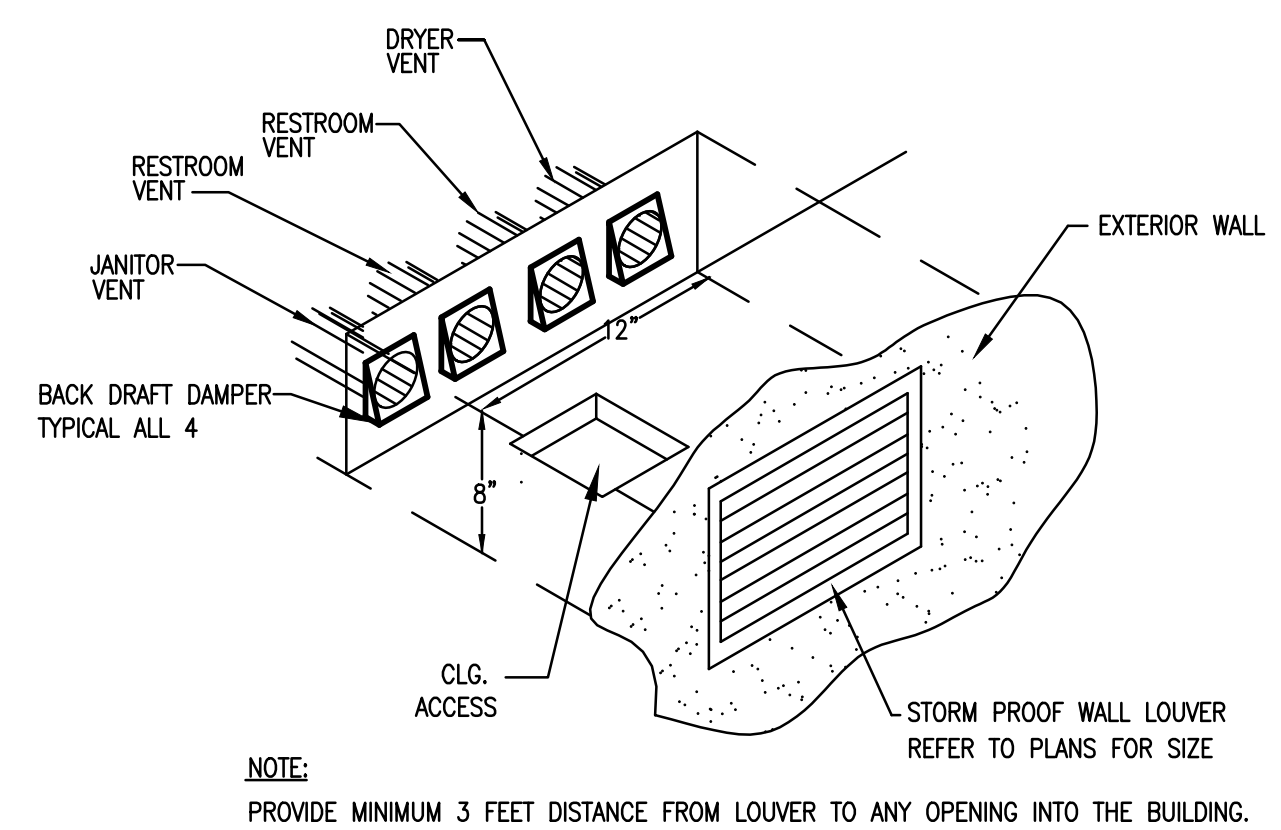
**08 KITCHEN HOOD INSTALLATION DETAILS**  
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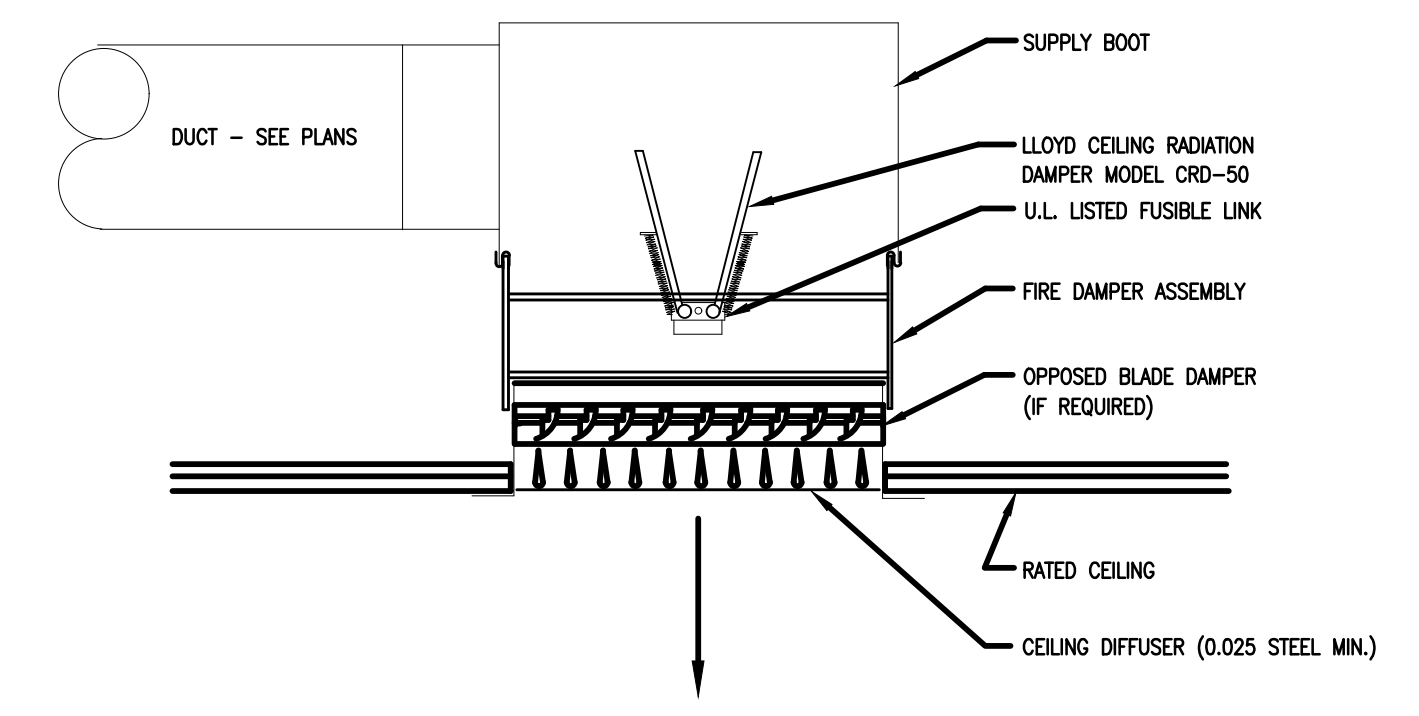
**02 RADIATION DAMPER @ FAN/COIL DETAIL**  
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BUNKHOUSES



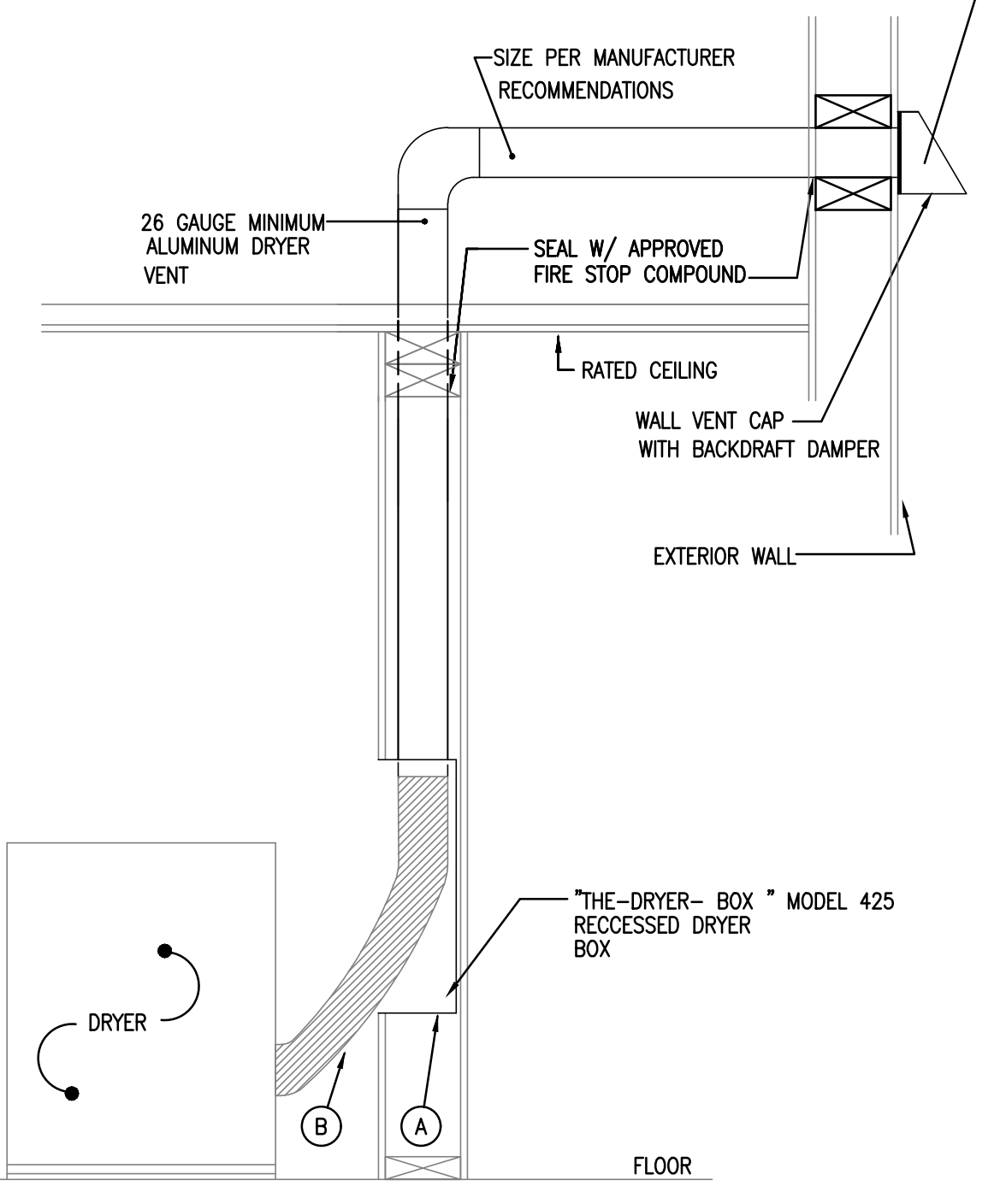
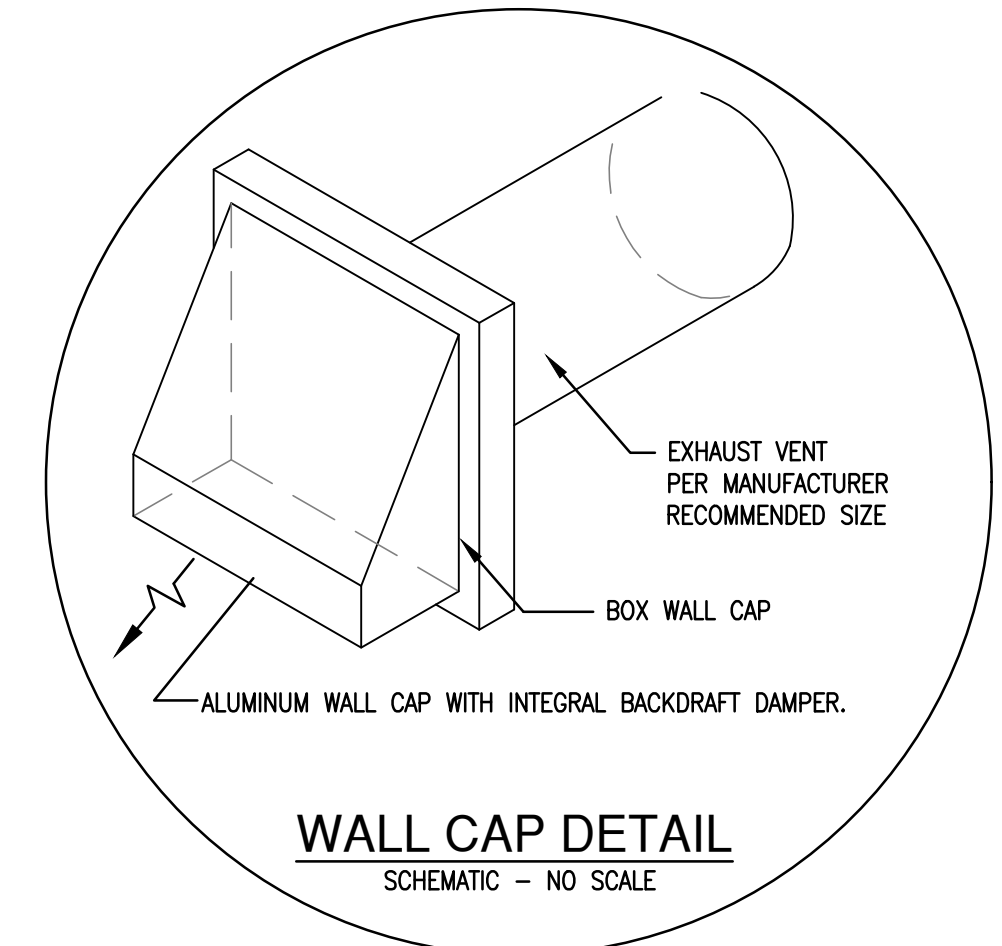
**04 PTAC ( WALL THRU PACKAGED UNIT)**  
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BUNKHOUSES



**07 EXHAUST VENTING BOX DETAILS**  
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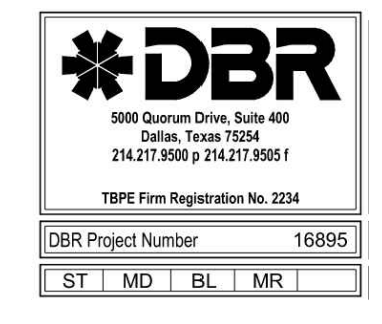


**03 CEILING RADIATION DAMPER DETAIL**  
No Scale



NOTE:  
A PROVIDE BLOCKING / REINFORCEMENT PER MANUFACTURER'S INSTALLATION RECOMMENDATIONS --INSTALL AS HIGH AS PERMISSIBLE ON WALL--  
B FLEX DUCT WITH DRAW BAND @ EACH END.  
UL FIRE PROTECTION SYSTEM NO. F-C-7001

**06 DRYER VENT DETAILS**  
No Scale



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DRAWN BY: MD  
REVIEWED BY: MA

REV	DATE	DESCRIPTION

**SHEET TITLE**  
DETAILS  
MECHANICAL

**SHEET NUMBER**  
M8.02



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PATH: C:\Users\ymdavid\Documents\Revit\23\_DBR\_GUS\_ENGLING\_WMA\_MEP\_mdov03kxP8.rvt

**GENERAL NOTES**

- A. REFER TO ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS FOR EXACT LOCATION AND QUANTITIES OF ALL WIRING DEVICES.
- B. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
- C. PROVIDE 120V POWER TO MOTORIZED DAMPERS IN THIS AREA. REFER TO MECHANICAL DRAWING FOR EXACT LOCATION AND QUANTITY OF DAMPERS.
- D. THE FIRE ALARM SYSTEM IS A PERFORMANCE BASED SPECIFICATION. PROVIDE DEVICES REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM PER MANUFACTURERS RECOMMENDATIONS AND NFPA APPROVED METHODS
- E. PROVIDE ACCESS PANELS FOR ALL JBXES LOCATED ABOVE AN INACCESSIBLE CEILING.

**KEY NOTES**

NOTE: REFERENCE NUMBER INSIDE HEXAGON

1. RECEPTACLE FOR WATER HEATER CONTROLS. REFER TO SCHEDULE. COORDINATE LOCATION WITH ALL TRADES PRIOR TO INSTALLATION.
2. INDOOR A/C UNIT RECEIVES POWER FROM OUTDOOR CONDENSING UNIT.
3. INTERFACE KITCHEN HOOD WITH FIRE SUPPRESSION SYSTEM. COORDINATE REQUIREMENTS WITH VENDOR.
4. ALL 20A/1P RECEPTACLES IN KITCHEN AREA SHALL BE GFI PROTECTED. PROVIDE GFI RECEPTACLE OR REMOTE MODULE AS REQUIRED.
5. INTERFACE OVEN WITH KITCHEN HOOD & FIRE SUPPRESSION TO SHUT DOWN INCASE OF FIRE.
6. PROVIDE DRYER MATCHING RECEPTACLES.
7. PROVIDE 4'X8'X3/4" FIRE RATED PLYWOOD BACKBOARD. PAINT WITH FIRE RESISTANT WHITE PAINT WITH PLYWOOD RATING EXPOSED IN AT LEAST ONE LOCATION.
8. DISCONNECT MOUNTED ON UNISTRUT RACK.
9. 24" X 24" X 3/8" QUARTZITE BOX WITH 2" CONDUIT ROUTED INTO BUILDING AND STUBBED UP ADJACENT TO PLYWOOD BACKBOARD. PROVIDE EMBOSSED LID ON BOX WITH TEXT "DATA"

**GUS ENGELING WMA**  
**GATHERING LODGE & BUNKHOUSES**  
 PROJECT NUMBER: 1211534

DATE: 04/03/2024  
 DESIGNED BY: BL  
 DRAWN BY: GF  
 REVIEWED BY: MA

REV	DATE	DESCRIPTION

**SHEET TITLE**  
 MAIN BUILDING FLOOR PLAN POWER

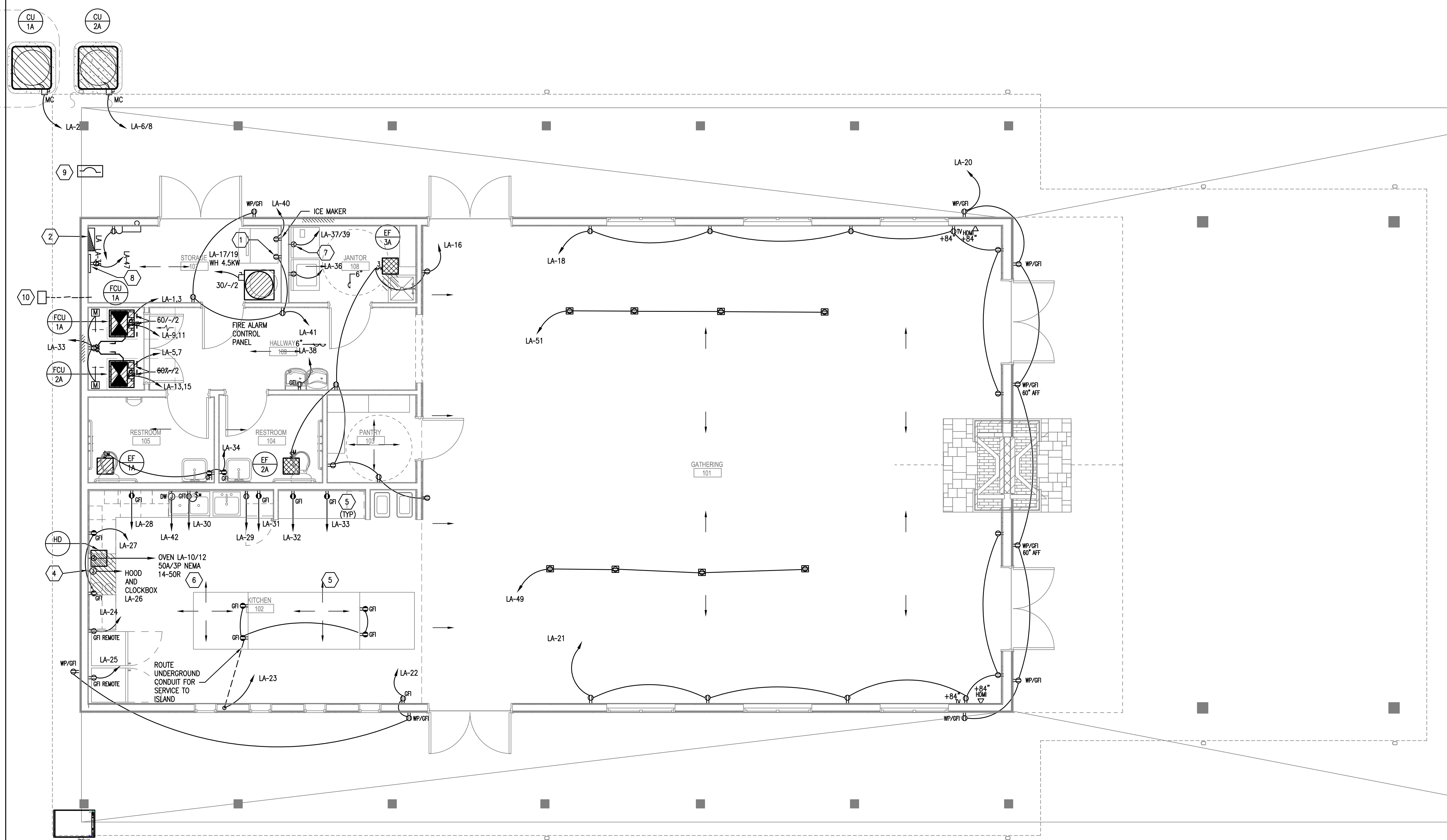
**SHEET NUMBER**  
 E2.01A  
 54

100% CONSTRUCTION DOCUMENTS

**01 MAIN BUILDING FLOOR PLAN - POWER**  
 SCALE: 1/4" = 1'-0"



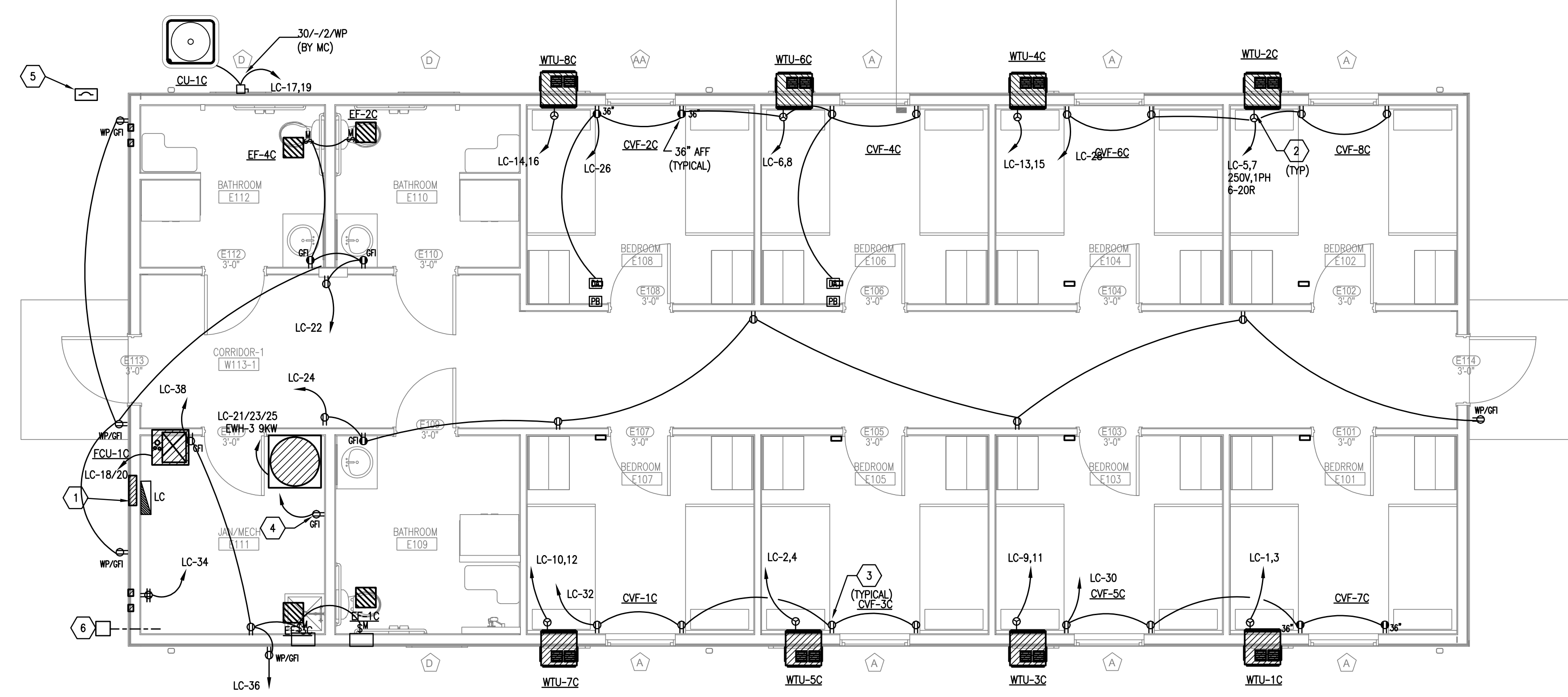
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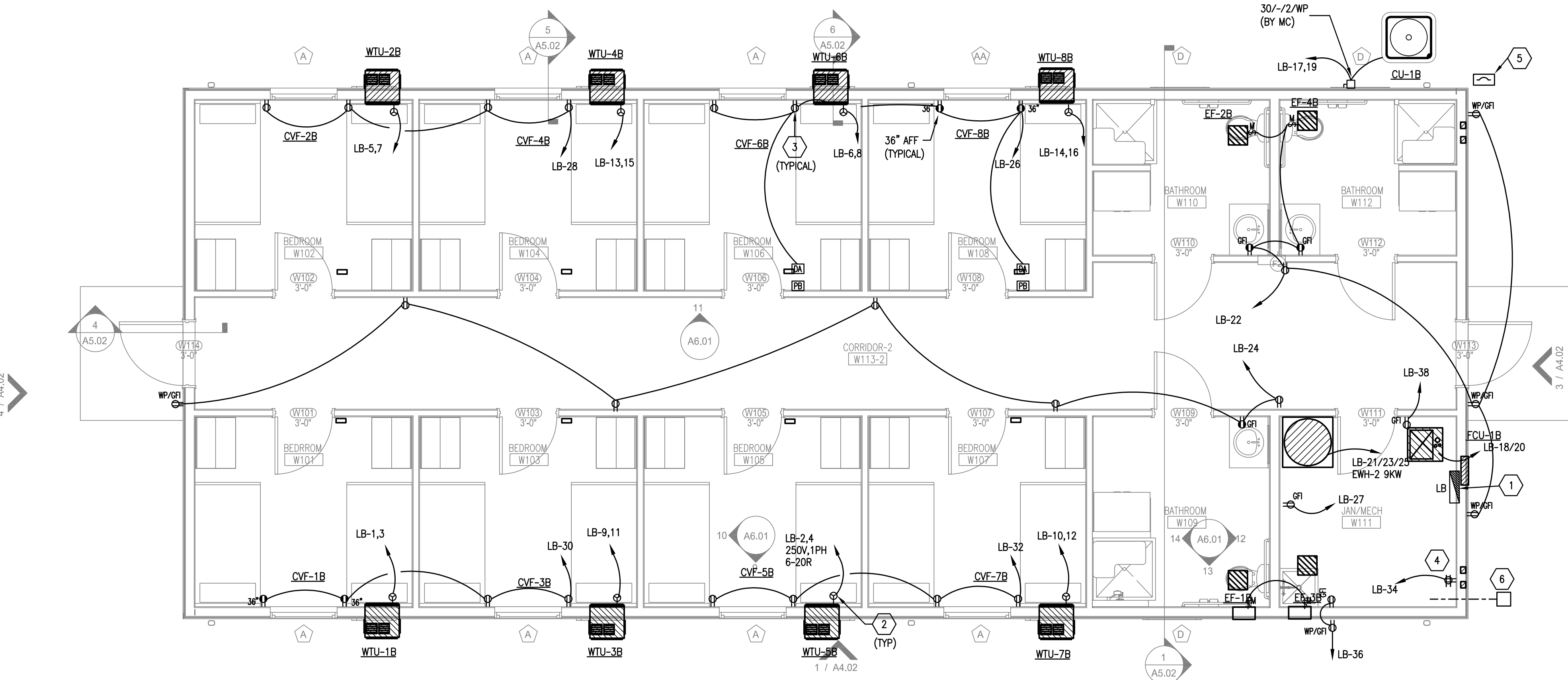
04/03/24



**01 EAST BUNKHOUSE FLOOR PLAN - POWER (ALTERNATE #1)**  
 SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

- A. REFER TO ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS FOR EXACT LOCATION AND QUANTITIES OF ALL WIRING DEVICES.
- B. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
- C. PROVIDE 120V POWER TO MOTORIZED DAMPERS IN THIS AREA. REFER TO MECHANICAL DRAWING FOR EXACT LOCATION AND QUANTITY OF DAMPERS. CONNECT TO CIRCUITS LB-36 & LC-36.
- D. THE FIRE ALARM SYSTEM IS A PERFORMANCE BASED SPECIFICATION. PROVIDE DEVICES REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM PER MANUFACTURERS RECOMMENDATIONS AND NFPA APPROVED METHODS.
- E. PROVIDE ACCESS PANELS FOR ALL JBOXES LOCATED ABOVE AN INACCESSIBLE CEILING.
- F. PROVIDE 120V SMOKE DETECTORS WITH SOUNDER BASE THROUGHOUT BUILDING TO PROVIDE FULL DETECTION COVERAGE. PROVIDE INTERCONNECT WIRING FOR SUPERVISION AND ALARM CIRCUITS. WIRE ALARM CIRCUITS BACK TO MAIN FACP LOCATED IN GATHERING LODGE. CIRCUIT TO LB-40 & LC-40.



**02 WEST BUNKHOUSE FLOOR PLAN - POWER**  
 SCALE: 1/4" = 1'-0"

**KEY NOTES**

- NOTE: REFERENCE NUMBER INSIDE HEXAGON
1. NEW 120/208V, 3PH .225A MLO PANELBOARD REFER TO SCHEDULE. COORDINATE LOCATION WITH ALL TRADES PRIOR TO INSTALLATION.
  2. COORDINATE PLUS FINAL LOCATION WITH MECHANICAL CONTRACTOR. REFER TO DETAIL 04/M8.02.
  3. OUTLETS SHALL BE PASS & SEYMOUR MODEL #: TMBUSWCC6 USB TAMPER-RESISTANT RECEPTACLE.
  4. PROVIDE 4'X8'X3/4" FIRE RATED PLYWOOD BACKBOARD. PAINT WITH FIRE RESISTANT WHITE PAINT WITH PLYWOOD RATING EXPOSED IN AT LEAST ONE LOCATION.
  5. EXTERIOR MOUNTED ENCLOSED CIRCUIT BREAKER SERVICE DISCONNECT.
  6. 24" X 24" X 3/8" QUARTZITE BOX WITH 2" CONDUIT ROUTED INTO BUILDING AND STUBBED UP ADJACENT TO PLYWOOD BACKBOARD. PROVIDE EMBOSSED LID ON BOX WITH TEXT "DATA"

**GUS ENGELING WMA**  
 GATHERING LODGE & BUNKHOUSES  
 PROJECT NUMBER: 1211534

DATE: 04/03/2024  
 DESIGNED BY: BL  
 DRAWN BY: GF  
 REVIEWED BY: MA

REV	DATE	DESCRIPTION

**SHEET TITLE**  
 EAST & WEST BUNKHOUSE  
 FLOOR PLANS  
 POWER

**SHEET NUMBER**  
 E2.01B  
 55





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04/03/24

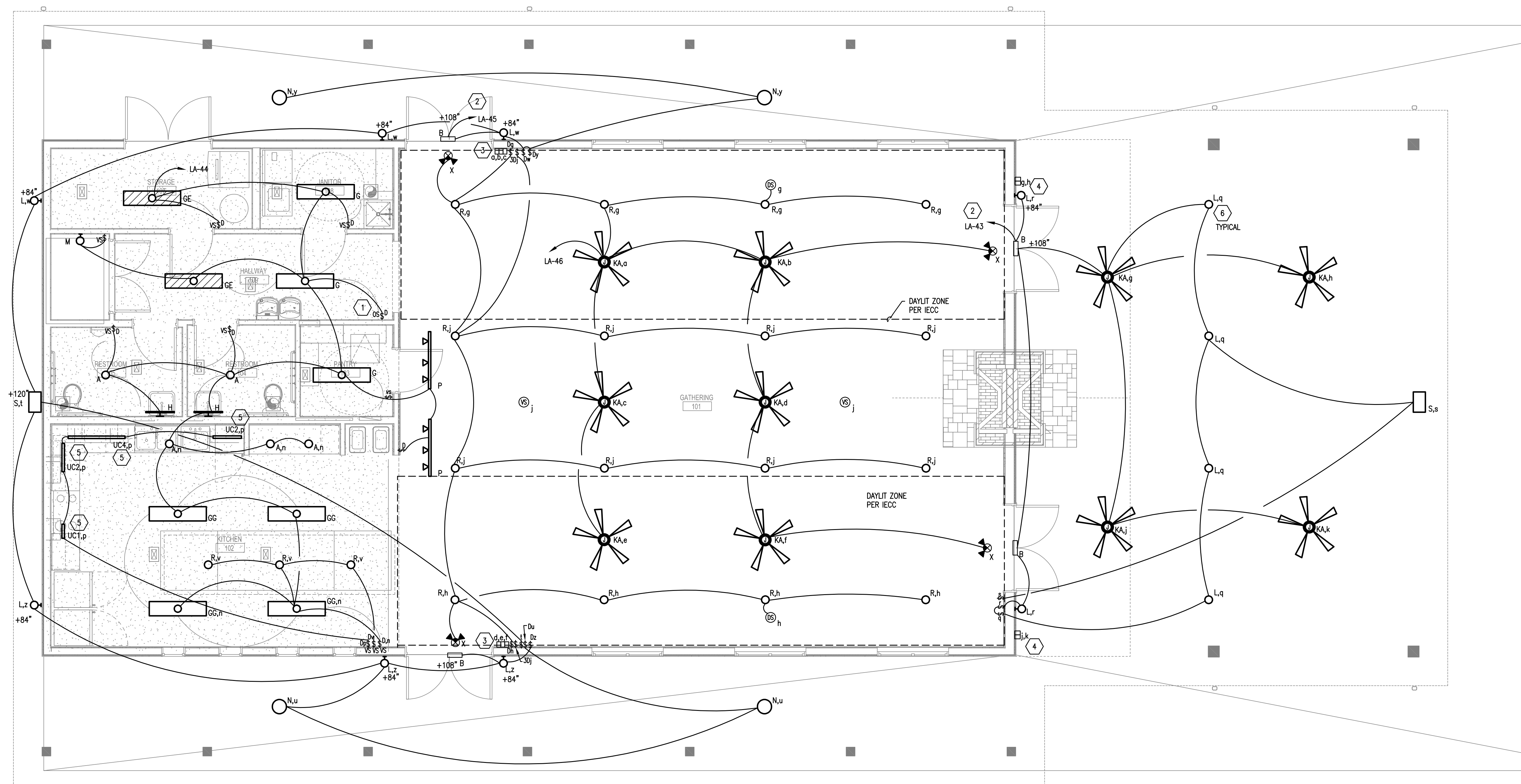
**GENERAL NOTES**

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.
- B. IN ROOMS INDICATED TO HAVE MOTION SENSORS FOR LIGHTING CONTROL, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM OCCUPANCY SENSORS IN THE CORRECT QUANTITIES AND LOCATION(S) AS REQUIRED FOR COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. SUBMIT DRAWINGS SHOWING MODEL NUMBERS AND DEVICE PLACEMENT FOR REVIEW AND APPROVAL.
- C. MOTION SENSOR SHALL BE WATTSTOPPER OR APPROVED EQUIVALENT WALL MOUNTED OR CEILING MOUNTED WITH POWER PACK AND ALL REQUIRED ACCESSORIES.
- D. WALL MOUNTED: PW-301 SINGLE RELAY, PW-302 DUAL RELAY, MANUAL-ON.
- E. CEILING MOUNTED: CI-300, MANUAL-ON WITH POWER PACK MODEL BZ-150. PROVIDE WITH WALL MOUNTED MOMENTARY SWITCH FOR MANUAL-ON OPERATION.
- F. ADDITIONAL LINE VOLTAGE WALL SWITCHES WHERE SHOWN IN ROOMS WITH CEILING MOTION SENSOR SHALL BE WIRED DOWNSTREAM OF SENSOR OR POWER PACK.
- G. EXIT SIGNS SHALL BE NON-SWITCHED. ALL CROSSHATCHED LIGHTS SHALL BE SWITCHED WITH NORMAL LIGHTS EXCEPT THEY SHALL BE WIRED FOR BATTERY BALLAST TO TURN ON UPON LOSS OF UTILITY POWER REGARDLESS OF THE POSITION OF LIGHT SWITCH.
- H. LOWER CASE LETTERS ADJACENT TO LIGHT FIXTURES & SWITCHES DESIGNATE LIGHT SWITCH CONTROL.
- I. PROVIDE ACCESS PANELS FOR ALL JBOXES LOCATED ABOVE AN INACCESSIBLE CEILING.

**KEY NOTES**

NOTE: REFERENCE NUMBER INSIDE HEXAGON

1. DUAL-TECHNOLOGY OCCUPANCY SENSOR, CONNECT TO CONTROL ZONED INTERIOR LIGHTS IN EACH RESPECTIVE SPACE.
2. CONTROL EXTERIOR TYPE 'L' AND 'N' LIGHT FIXTURES WITH PHOTOCELL. WIRE TYPE 'B' FIXTURES SUCH THAT THEY ARE CONTROLLED VIA PHOTOCELL, BUT WILL AUTOMATICALLY ENERGIZE IF BUILDING LOSES POWER.
3. PROVIDE (3) DUAL SLIDE WALL CONTROL DIMMABLE FAN / LIGHT CONTROLLERS WITH PRESETS. ROUTE CIRCUITRY THRU TIMECLOCK.
4. PROVIDE (2) DUAL SLIDE WALL CONTROL DIMMABLE FAN / LIGHT CONTROLLERS WITH PRESETS.
5. CONNECT UNDER CABINET LIGHTING TO RECEPTACLE CIRCUIT LOCATED AT COUNTER BELOW.
6. MOUNT TYPE 'L' FIXTURES AT PATIO TO DIRECT LIGHT UP FOR UPLIGHTING



**01 MAIN BUILDING FLOOR PLAN - LIGHTING**  
 SCALE: 1/4" = 1'-0"

**GUS ENGELING WMA**  
**GATHERING LODGE & BUNKHOUSES**  
 PROJECT NUMBER: 1211534

DATE: 04/03/2024  
 DESIGNED BY: BL  
 DRAWN BY: GF  
 REVIEWED BY: MA

REV	DATE	DESCRIPTION

**SHEET TITLE**  
 MAIN BUILDING  
 FLOOR PLAN  
 LIGHTING

**SHEET NUMBER**  
**E3.01A**  
 56

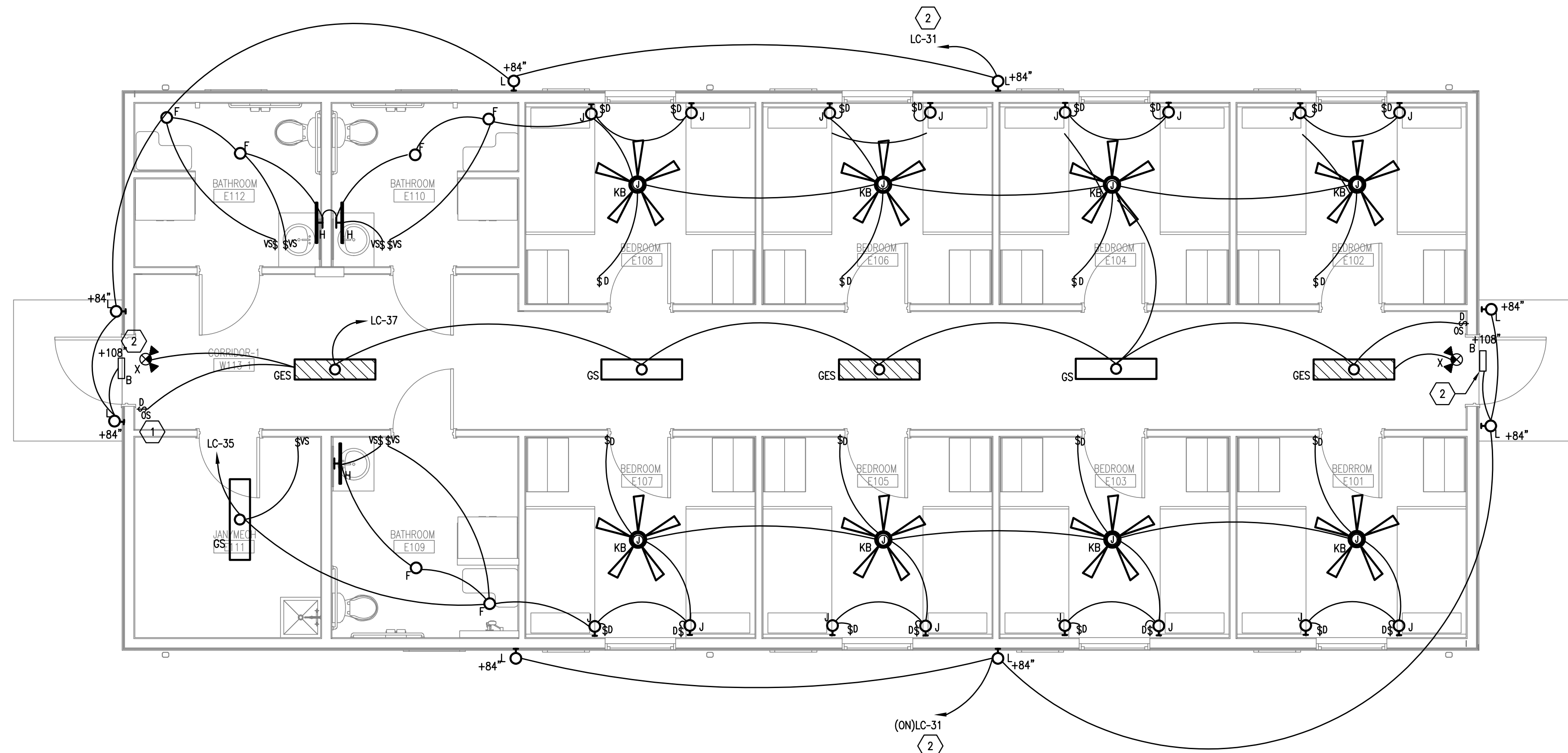


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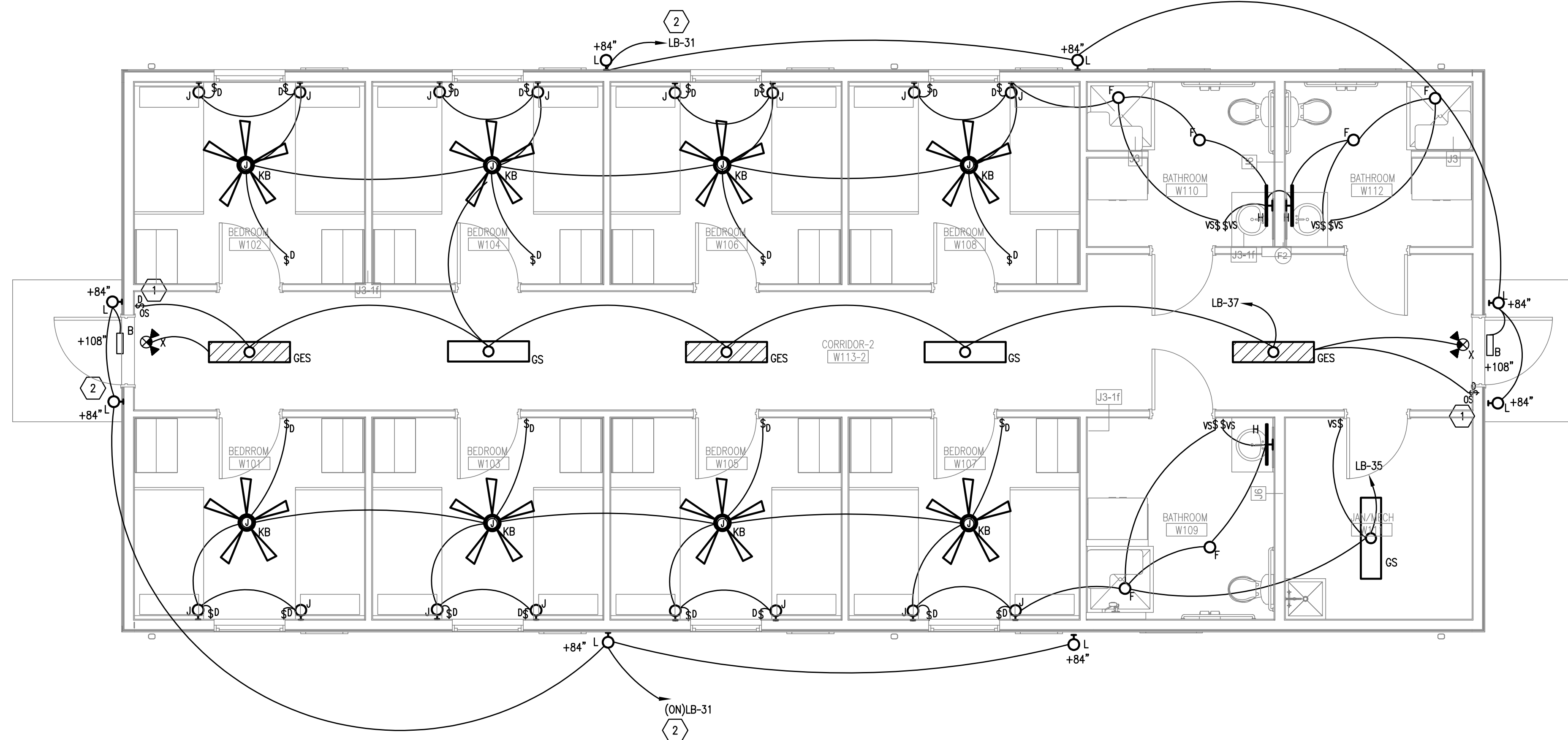


04/03/24

**GUS ENGELING WMA**  
**GATHERING LODGE & BUNKHOUSES**  
 PROJECT NUMBER: 1211534



**01 EAST BUNKHOUSE FLOOR PLAN - LIGHTING (ALTERNATE #1)**  
 SCALE: 1/4" = 1'-0"



**02 WEST BUNKHOUSE FLOOR PLAN - LIGHTING**  
 SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.
- B. IN ROOMS INDICATED TO HAVE MOTION SENSORS FOR LIGHTING CONTROL, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM OCCUPANCY SENSORS IN THE CORRECT QUANTITIES AND LOCATION(S) AS REQUIRED FOR COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. SUBMIT DRAWINGS SHOWING MODEL NUMBERS AND DEVICE PLACEMENT FOR REVIEW AND APPROVAL.
- C. MOTION SENSOR SHALL BE WATTSTOPPER OR APPROVED EQUIVALENT WALL MOUNTED OR CEILING MOUNTED WITH POWER PACK AND ALL REQUIRED ACCESSORIES.
- D. **WALL MOUNTED:** PW-301 SINGLE RELAY, PW-302 DUAL RELAY, MANUAL-ON.
- E. **CEILING MOUNTED:** CI-300, MANUAL-ON WITH POWER PACK MODEL BZ-150. PROVIDE WITH WALL MOUNTED MOMENTARY SWITCH FOR MANUAL-ON OPERATION.
- F. ADDITIONAL LINE VOLTAGE WALL SWITCHES WHERE SHOWN IN ROOMS WITH CEILING MOTION SENSOR SHALL BE WIRED DOWNSTREAM OF SENSOR OR POWER PACK.
- G. EXIT SIGNS SHALL BE NON-SWITCHED. ALL CROSSHATCHED LIGHTS SHALL BE SWITCHED WITH NORMAL LIGHTS EXCEPT THEY SHALL BE WIRED FOR BATTERY BALLAST TO TURN ON UPON LOSS OF UTILITY POWER REGARDLESS OF THE POSITION OF LIGHT SWITCH.
- H. LOWER CASE LETTERS ADJACENT TO LIGHT FIXTURES & SWITCHES DESIGNATE LIGHT SWITCH CONTROL.
- I. PROVIDE ACCESS PANELS FOR ALL JBOXES LOCATED ABOVE AN INACCESSIBLE CEILING.

**KEY NOTES**

- NOTE: REFERENCE NUMBER INSIDE HEXAGON
- 1. DUAL-TECHNOLOGY OCCUPANCY SENSOR
  - 2. CONTROL EXTERIOR TYPE 'L' LIGHT FIXTURES WITH PHOTOCELL. WIRE TYPE 'B' FIXTURES SUCH THAT THEY ARE CONTROLLED VIA PHOTOCELL, BUT WILL AUTOMATICALLY ENERGIZE IF BUILDING LOSES POWER.

DATE: 04/03/2024  
 DESIGNED BY: BL  
 DRAWN BY: GF  
 REVIEWED BY: MA

REV	DATE	DESCRIPTION

**SHEET TITLE**  
 EAST & WEST BUNKHOUSE  
 FLOOR PLANS  
 LIGHTING

**SHEET NUMBER**  
**E3.01B**  
 57




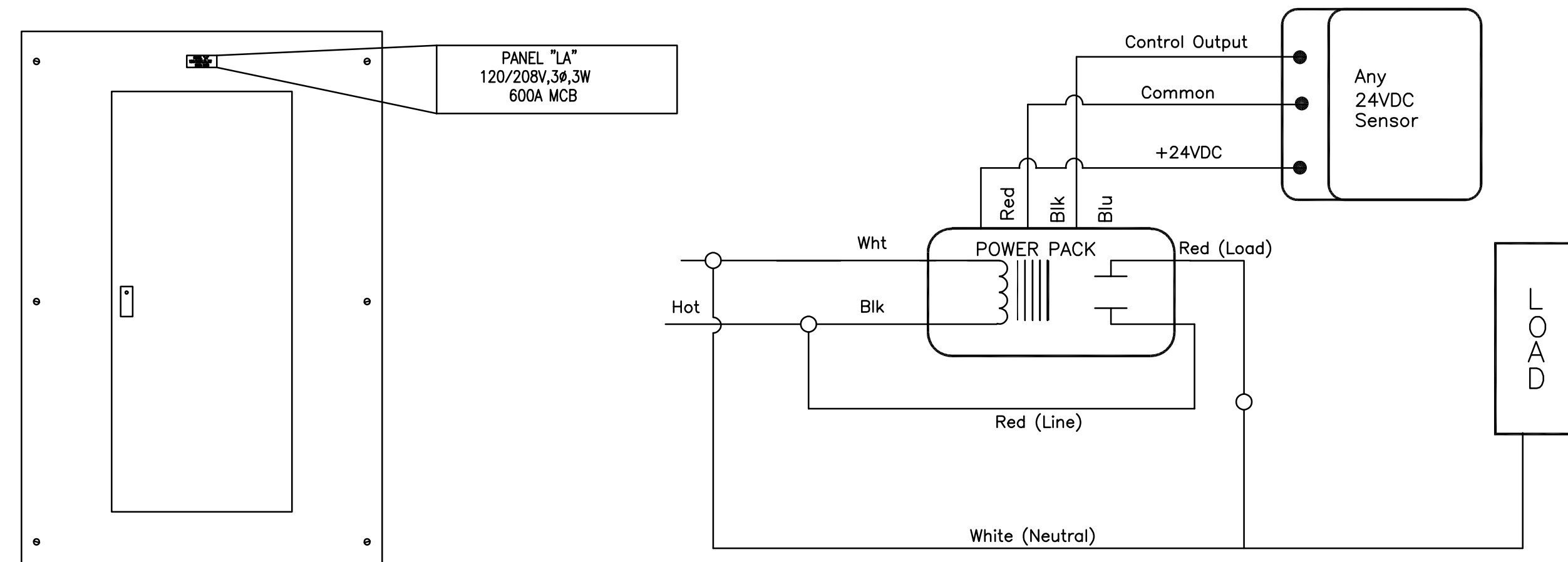
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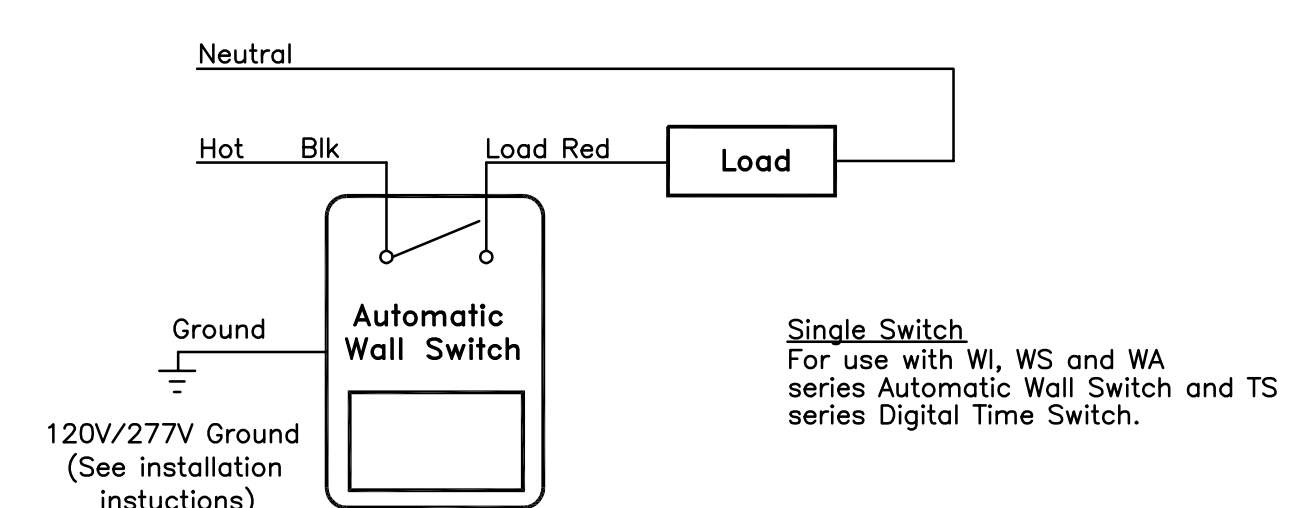
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 04/03/24

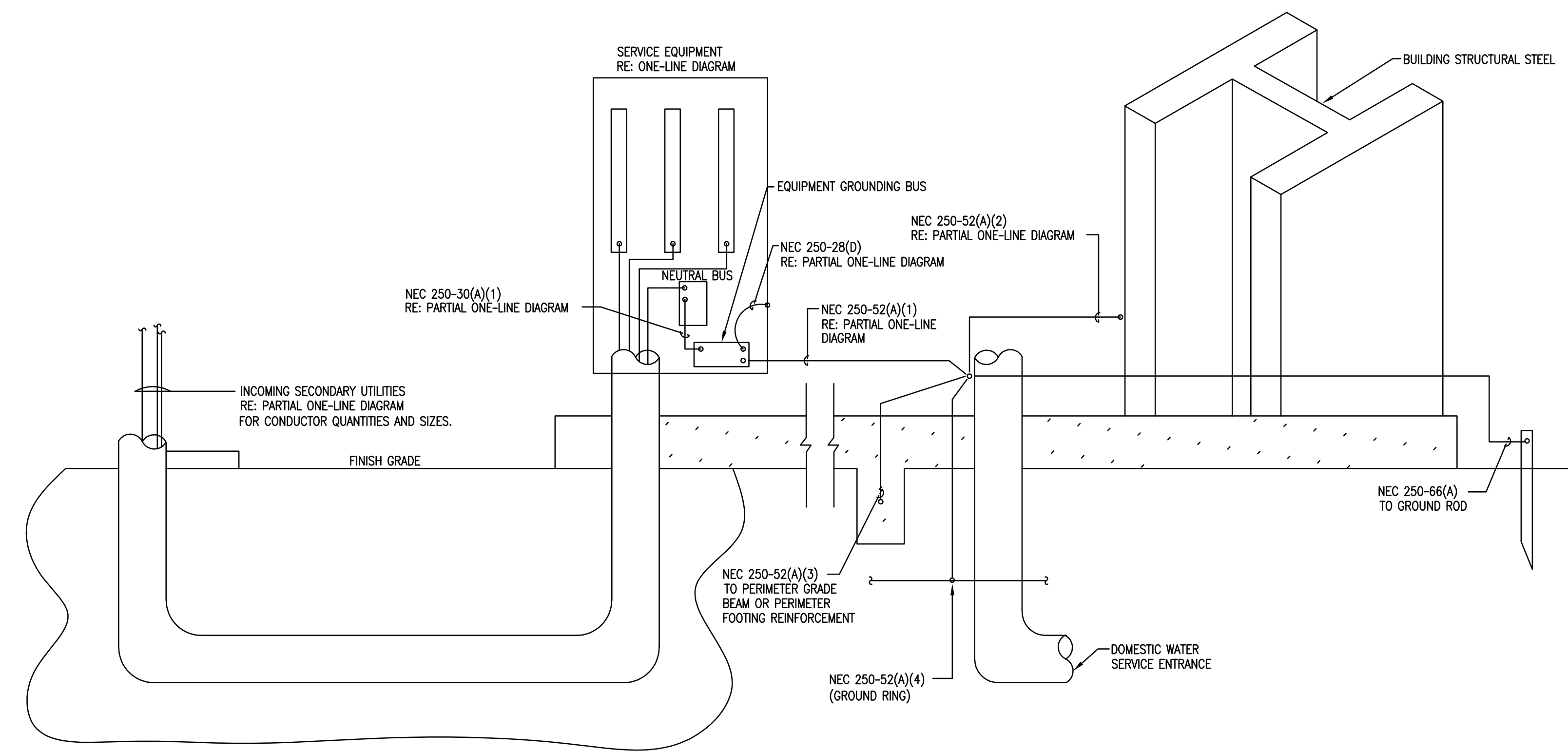


**01 PANELBOARD IDENTIFICATION**  
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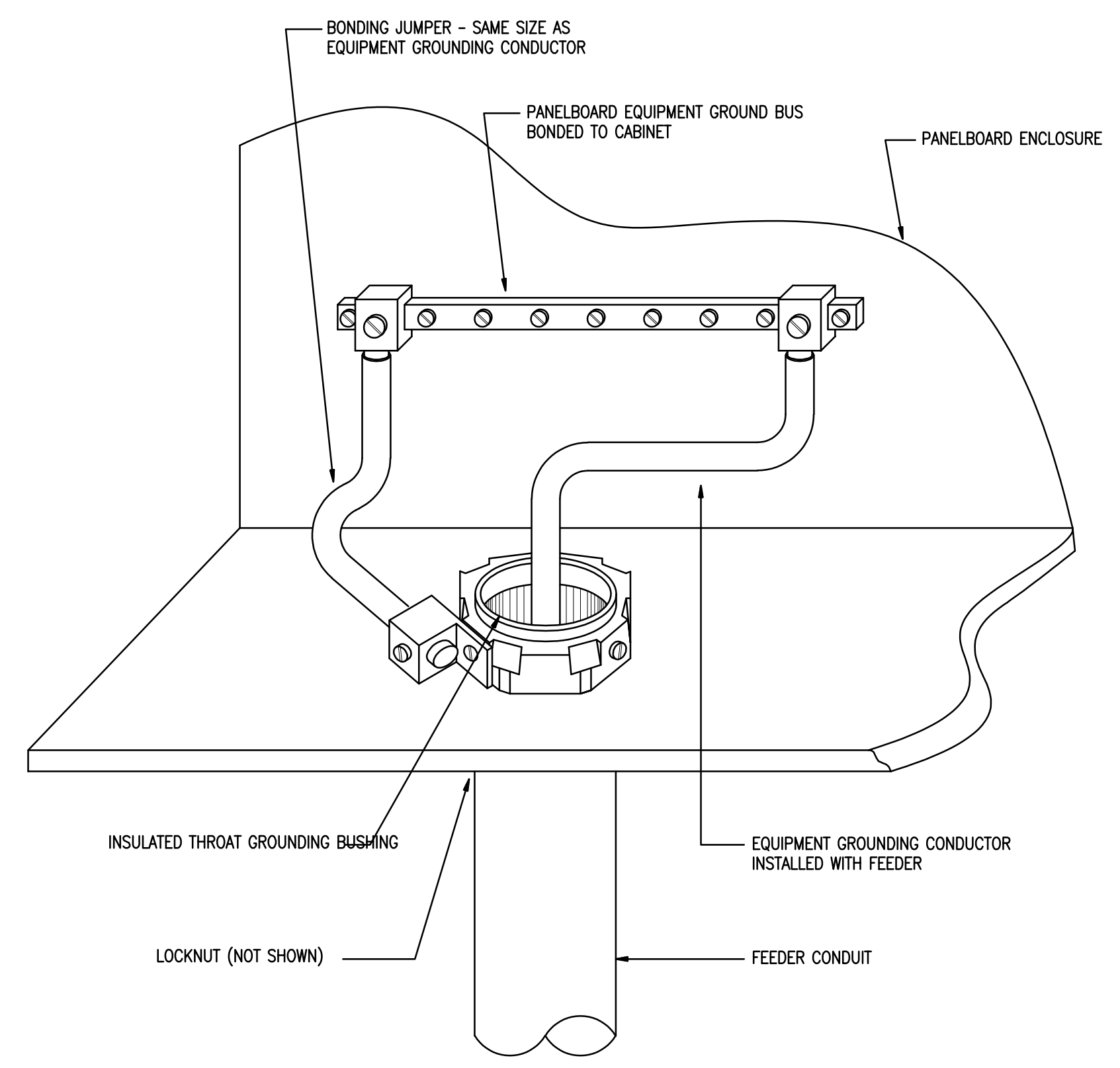
**02 CEILING MOUNTED OCCUPANCY SENSOR**  
 No Scale



**03 OCCUPANCY SENSOR - WALL SWITCH**  
 No Scale



**04 ELECTRICAL SERVICE GROUNDING SCHEMATIC**  
 No Scale



**05 PANELBOARD BONDING DETAIL**  
 No Scale

**GUS ENGELING WMA**  
**GATHERING LODGE & BUNKHOUSES**  
 PROJECT NUMBER: 1211534

DATE: 04/03/2024  
 DESIGNED BY: BL  
 DRAWN BY: GF  
 REVIEWED BY: MA

REV	DATE	DESCRIPTION

**SHEET TITLE**  
 DETAILS  
 ELECTRICAL

**SHEET NUMBER**  
**E8.01**  
 60



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 TX FIRM NO. 1452



04/03/24

**GENERAL NOTES**

- A. CONTRACTOR TO COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES PRIOR TO COMMENCING ANY WORK.
- B. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION OF ALL KITCHEN EQUIPMENT.
- C. REFER TO SHEET P7.02 FOR RISER DIAGRAMS, DETAILS, AND SCHEDULES.
- D. PROVIDE TRAP GUARDS ON ALL FLOOR DRAINS. REFER TO SHEET P7.01 FOR DETAIL AND PLUMBING FIXTURE SCHEDULE.
- E. ROUTE ALL PLUMBING PIPING ABOVE CEILING IN ATTIC SPACE. COORDINATE EXACT ROUTING WITH ARCHITECTURAL PLANS AND PROVIDE INSULATION AS INDICATED ON SPECIFICATIONS.

**GUS ENGELING WMA**  
**GATHERING LODGE & BUNKHOUSES**  
 PROJECT NUMBER: 1211534

DATE: 04/03/2024  
 DESIGNED BY: ST  
 DRAWN BY: MD  
 REVIEWED BY: MA

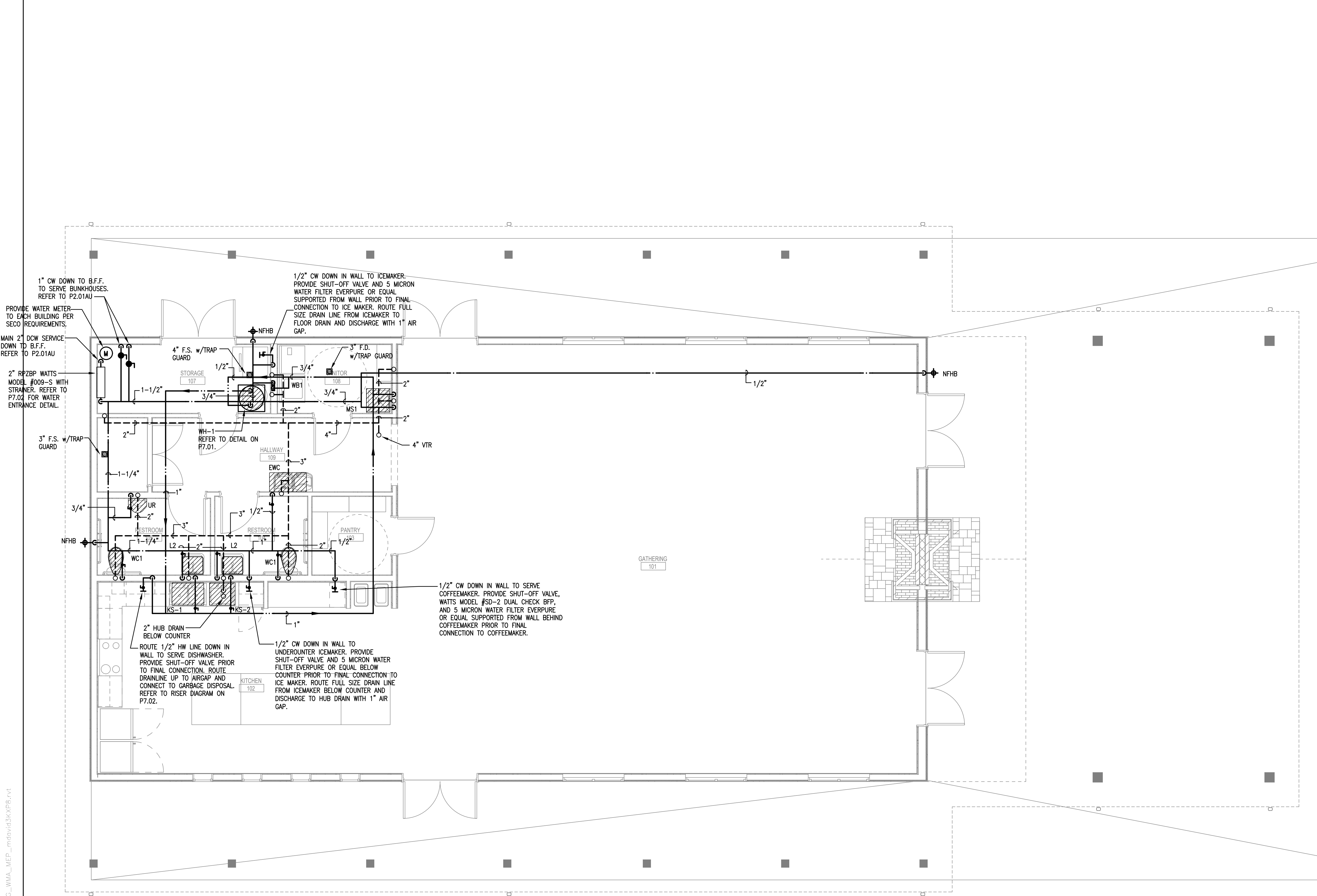
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**SHEET TITLE**

GATHERING LODGE FLOOR PLAN PLUMBING

**SHEET NUMBER**

P2.01A



**01 GATHERING LODGE FLOOR PLAN - PLUMBING**  
 SCALE: 1/4" = 1'-0"

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9800 Quorum Drive, Suite 400  
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214.217.8500 p 214.217.8551 f

TXPE Firm Registration No. 2234

DBR Project Number 16895

ST MD BL MR

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04/03/24

GUS ENGELING WMA  
GATHERING LODGE & BUNKHOUSES  
PROJECT NUMBER: 1211534

DATE: 04/03/2024  
DESIGNED BY: ST  
DRAWN BY: MD  
REVIEWED BY: MA

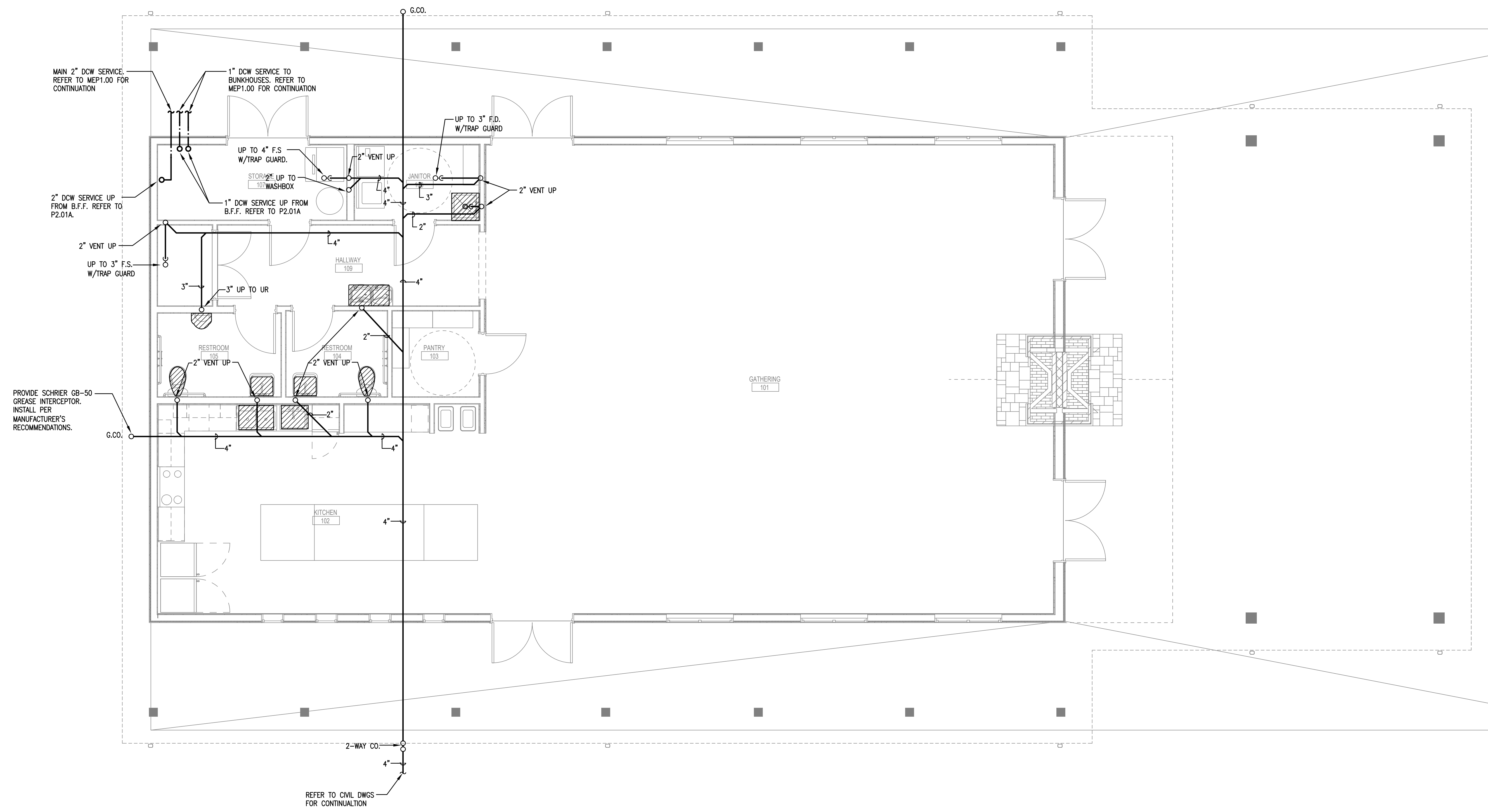
REV	DATE	DESCRIPTION

**SHEET TITLE**  
GATHERING LODGE FLOOR PLAN PLUMBING UNDERFLOOR

**SHEET NUMBER**  
P2.01AU



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**01 GATHERING LODGE FLOOR PLAN - UNDERFLOOR**  
SCALE: 1/4" = 1'-0"

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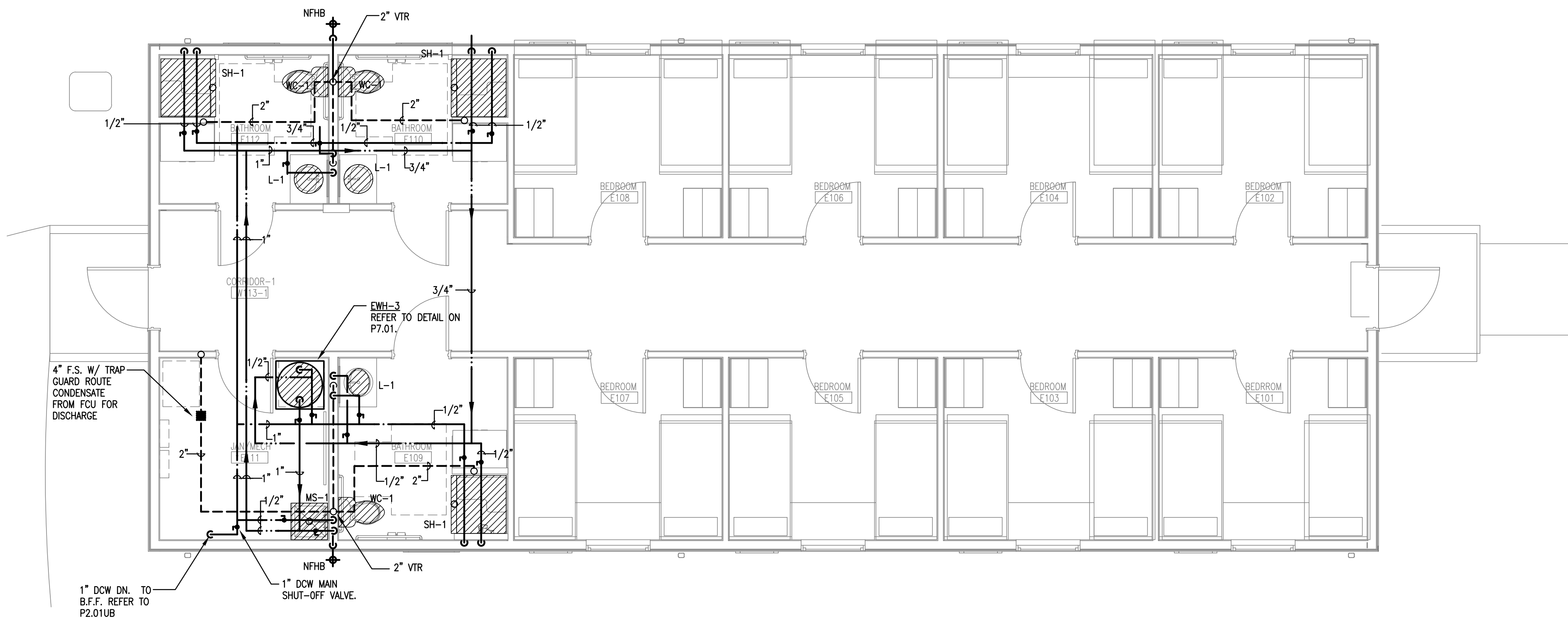
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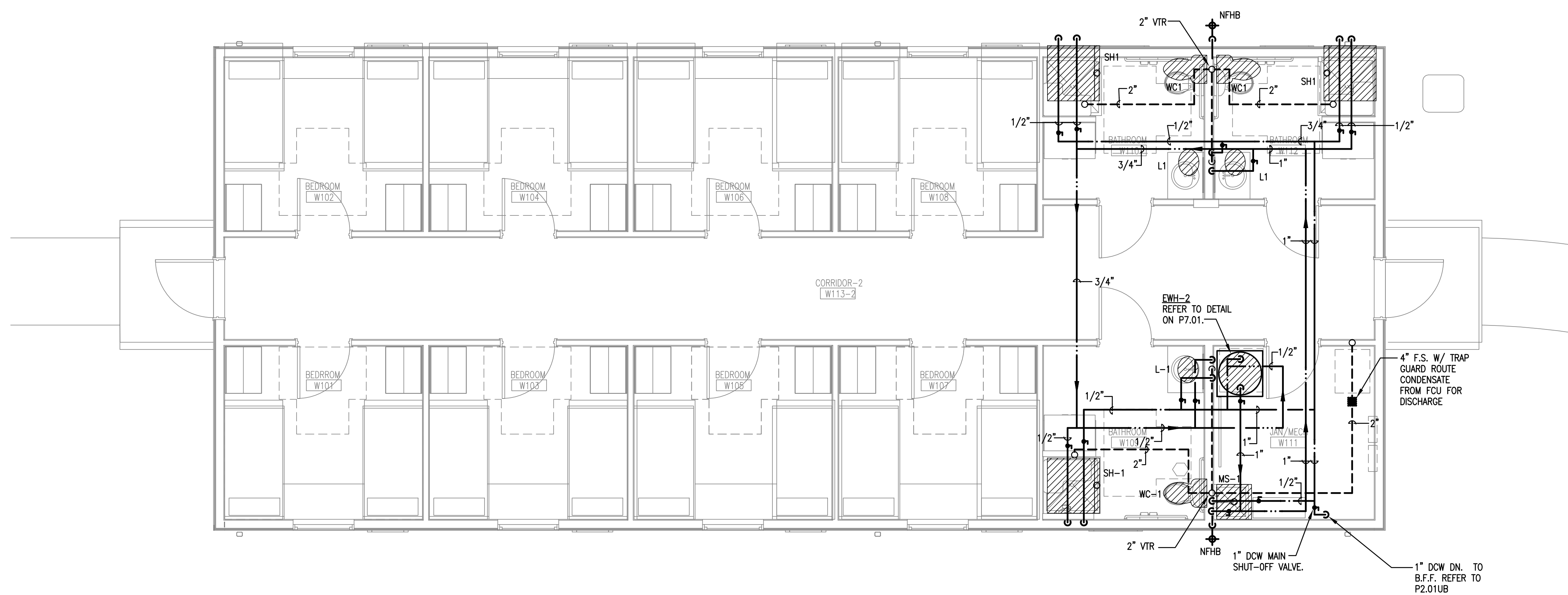
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**GENERAL NOTES**

- A. REFER TO P7.02 FOR RISER DIAGRAMS, DETAILS, AND SCHEDULES.
- B. COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES PRIOR TO COMMENCING ANY WORK.
- C. PROVIDE TRAP GUARDS ON ALL FLOOR DRAINS. REFER TO SHEET P7.01 FOR DETAIL AND PLUMBING FIXTURE SCHEDULE.
- D. ROUTE ALL PLUMBING PIPING ABOVE CEILING IN ATTIC SPACE. COORDINATE EXACT ROUTING WITH ARCHITECTURAL PLANS AND PROVIDE INSULATION AS INDICATED ON SPECIFICATIONS.



**01 EAST BUNKHOUSE FLOOR PLAN - PLUMBING (ALTERNATE #1)**  
 SCALE: 1/4" = 1'-0"



**02 WEST BUNKHOUSE FLOOR PLAN - PLUMBING**  
 SCALE: 1/4" = 1'-0"

**GUS ENGELING WMA**  
**GATHERING LODGE & BUNKHOUSES**  
 PROJECT NUMBER: 1211534

DATE: 04/03/2024  
 DESIGNED BY: ST  
 DRAWN BY: MD  
 REVIEWED BY: MA

REV	DATE	DESCRIPTION

**SHEET TITLE**  
 EAST & WEST BUNKHOUSE  
 FLOOR PLANS  
 PLUMBING

**SHEET NUMBER**  
 P2.01B





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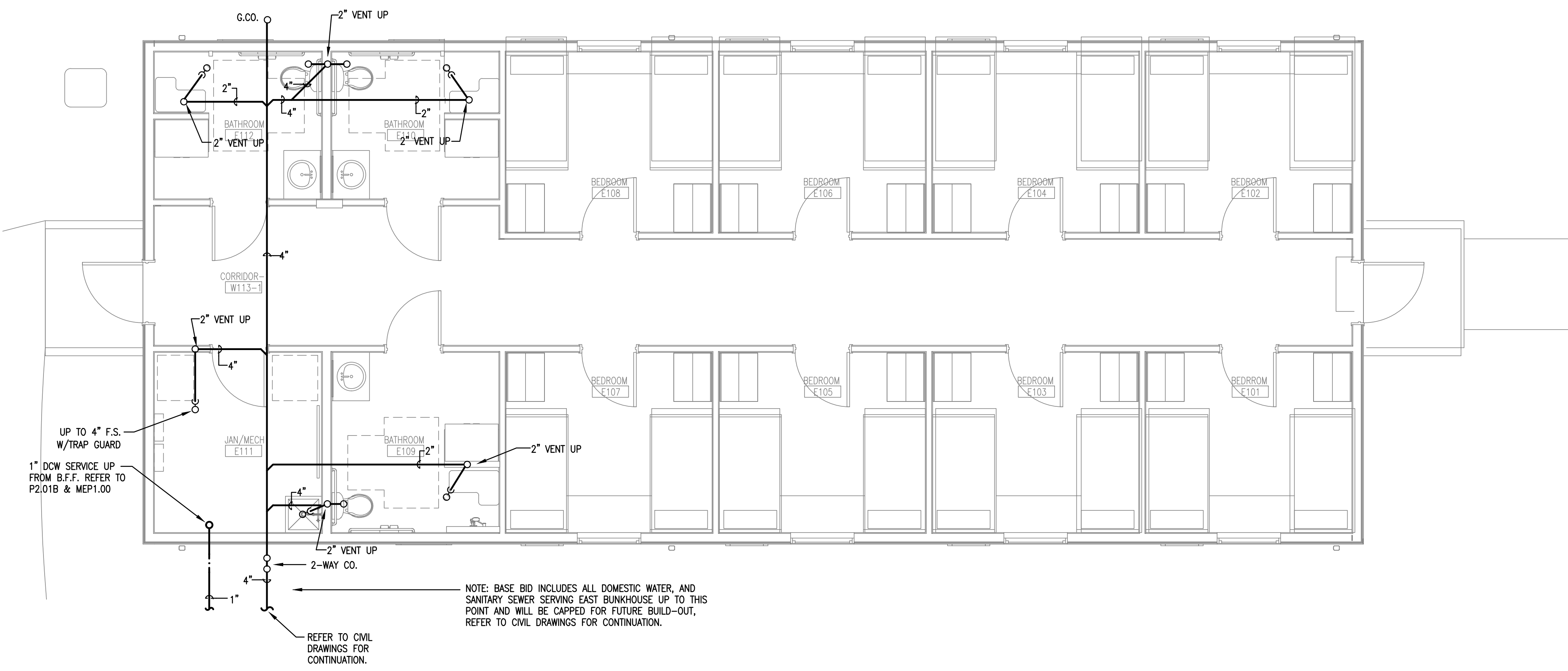
**GUS ENGELING WMA**  
**GATHERING LODGE & BUNKHOUSES**  
 PROJECT NUMBER: 1211534

DATE: 04/03/2024  
 DESIGNED BY: ST  
 DRAWN BY: MD  
 REVIEWED BY: MA

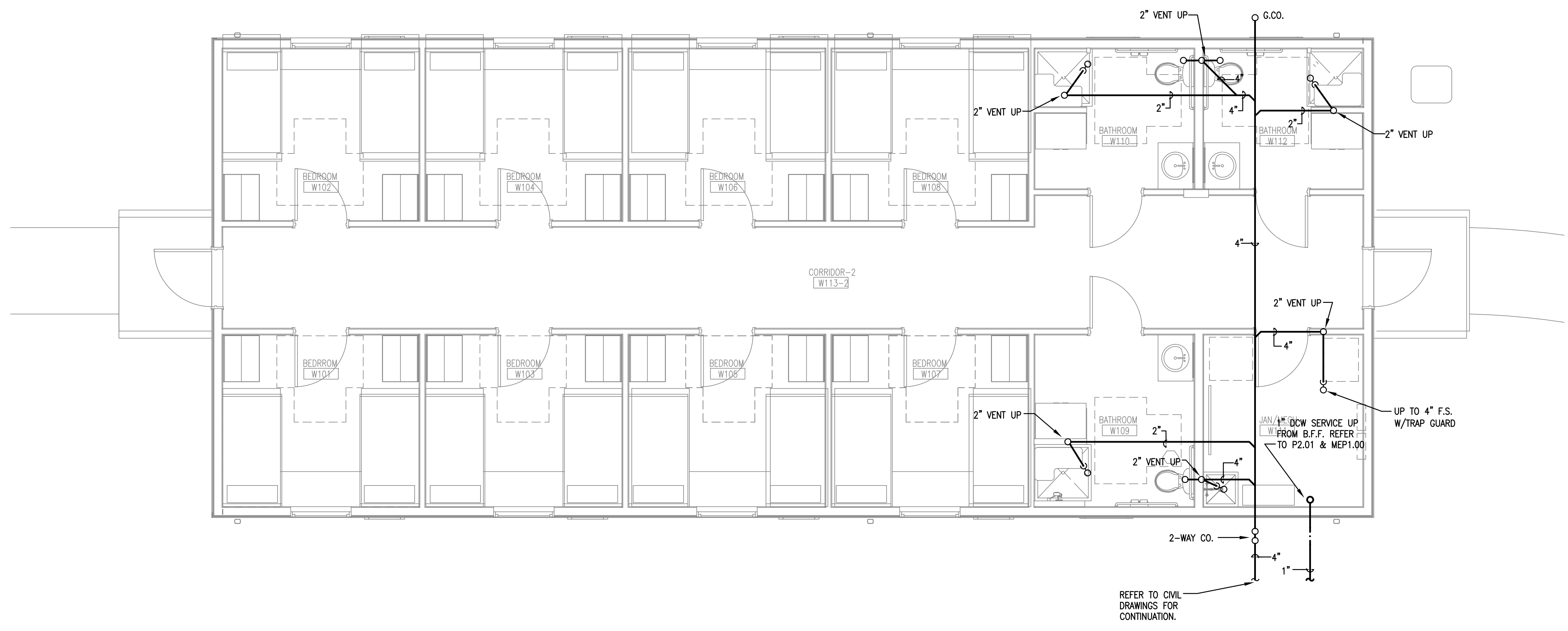
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**SHEET TITLE**  
 EAST & WEST BUNKHOUSE  
 FLOOR PLANS  
 UNDERFLOOR PLUMBING

**SHEET NUMBER**  
 P2.01BU



**01 EAST BUNKHOUSE FLOOR PLAN - UNDERFLOOR PLUMBING (ALTERNATE #1)**  
 SCALE: 1/4" = 1'-0"



**02 WEST BUNKHOUSE FLOOR PLAN - UNDERFLOOR PLUMBING**  
 SCALE: 1/4" = 1'-0"





9800 Quorum Drive, Suite 400  
Dallas, Texas 75244  
214.217.8500 p 214.217.8551 f

TXPE Firm Registration No. 2224

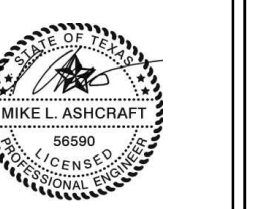
DBR Project Number 16895

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TX FIRM NO. 1452



04/03/24

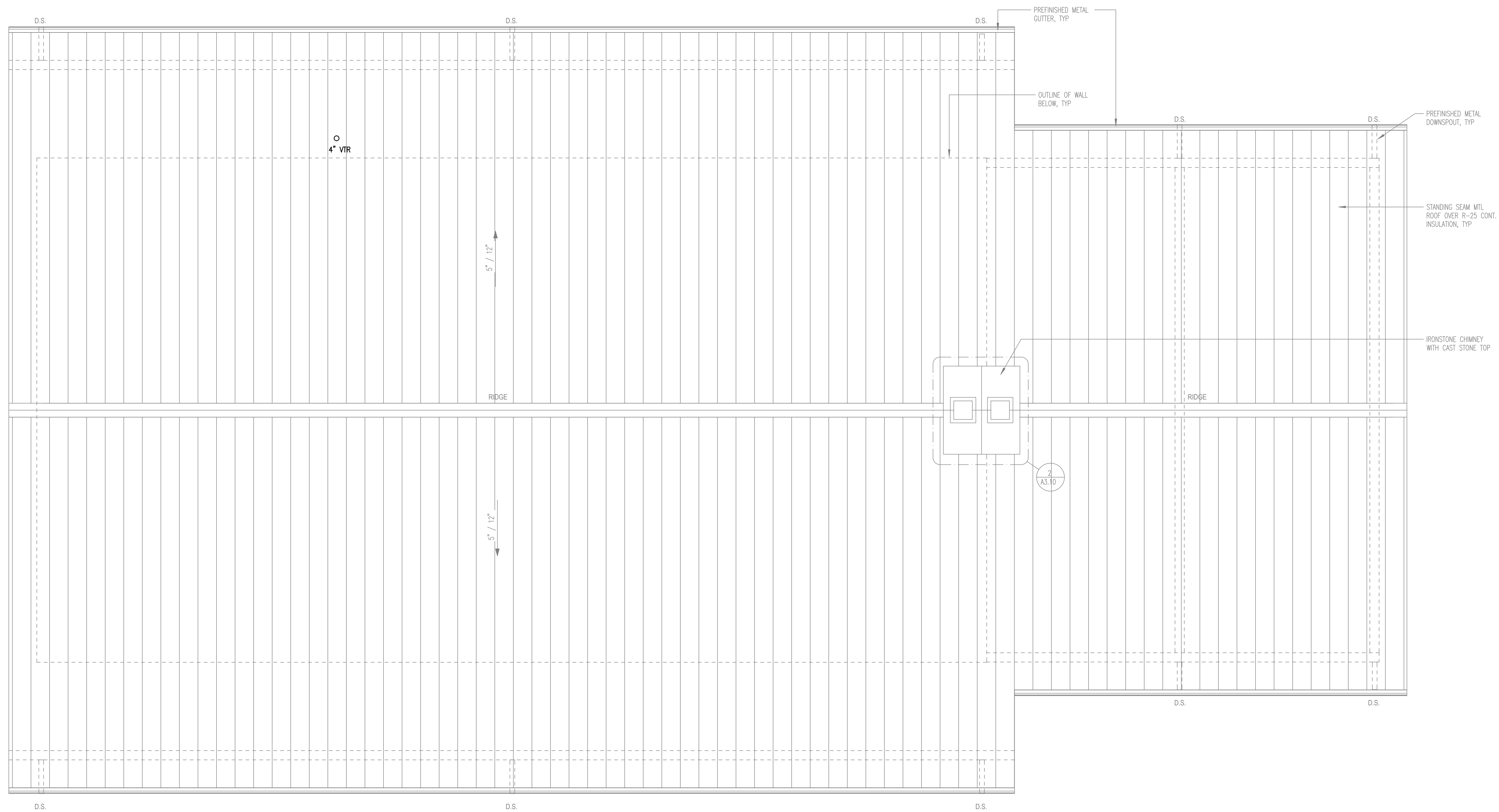
GUS ENGELING WMA  
GATHERING LODGE & BUNKHOUSES  
PROJECT NUMBER: 1211534

DATE: 04/03/2024  
DESIGNED BY: ST  
DRAWN BY: MD  
REVIEWED BY: MA

REV	DATE	DESCRIPTION

SHEET TITLE  
GATHERING LODGE ROOF PLAN PLUMBING

SHEET NUMBER  
P2.02A



**01 GATHERING LODGE - PLUMBING**  
SCALE: 1/4" = 1'-0"

PATH: C:\Users\mdavid\Documents\Revit\R23\_DBR\_GUS\_ENGLING\_WMA\_MEP\_mdavid3kx\FB.rvt

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9800 Quorum Drive, Suite 400  
Dallas, Texas 75244  
214.217.8500 p 214.217.8551 f

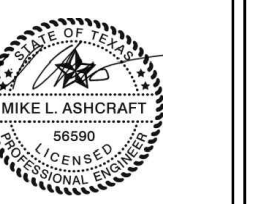
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DBR Firm Registration No. 2234  
ST MD BL MR

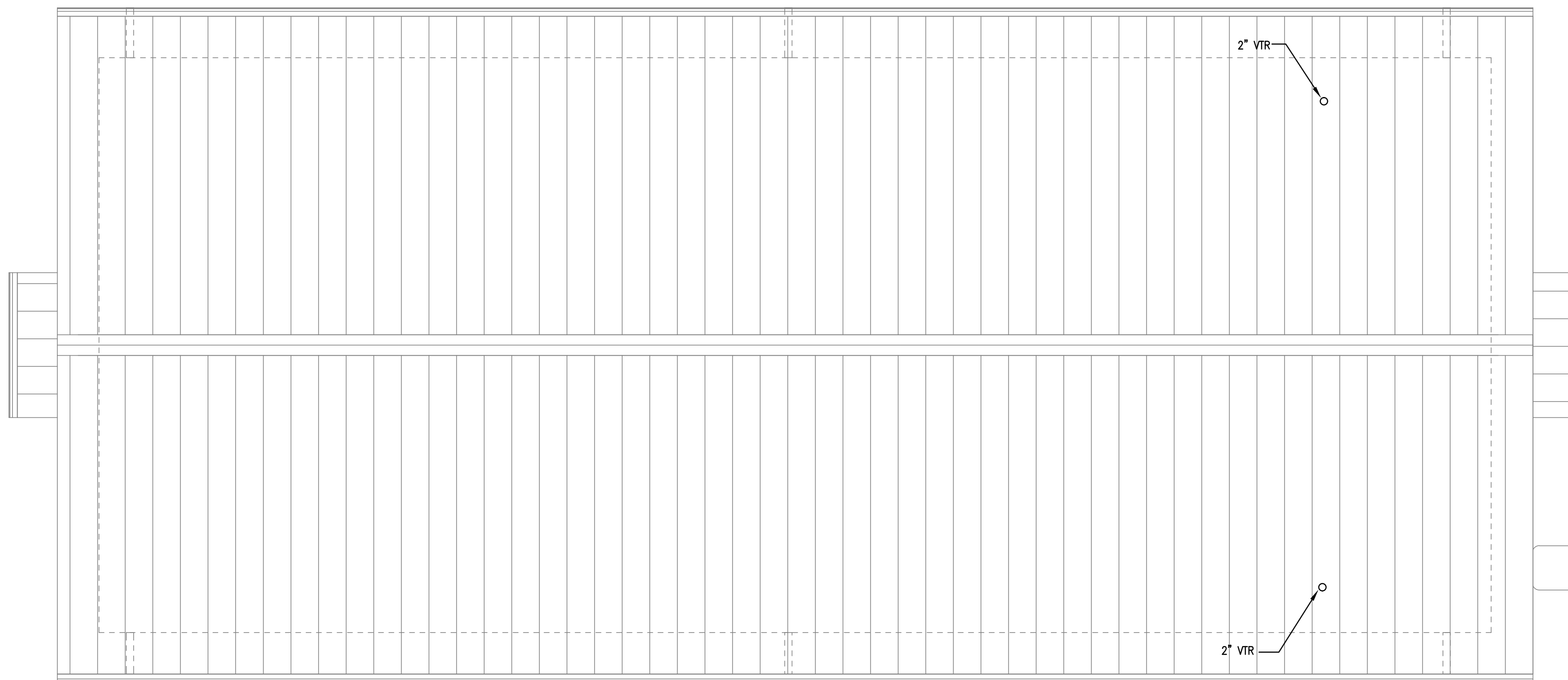
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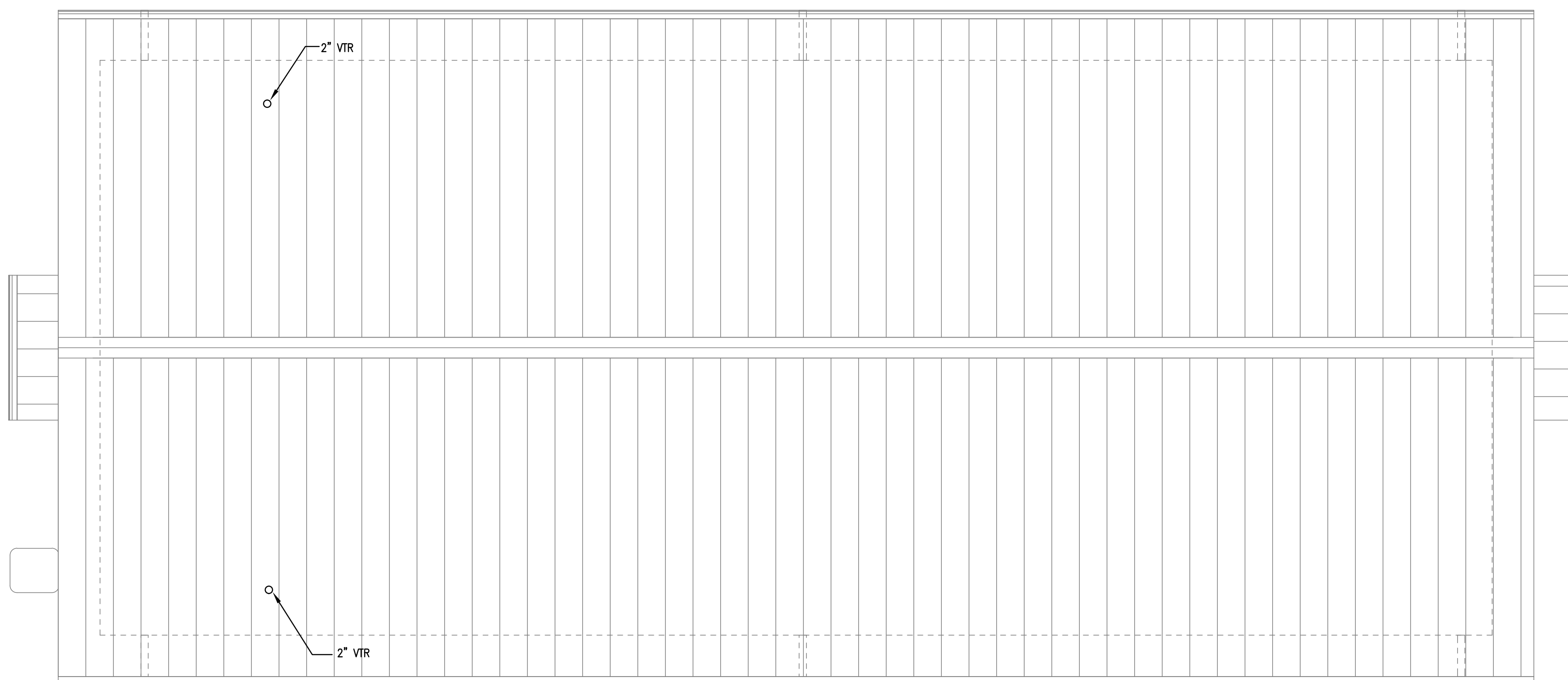
TX FIRM NO. 1452



04/03/24



**01 EAST BUNKHOUSE ROOF PLAN - PLUMBING**  
SCALE: 1/4" = 1'-0"



**01 WEST BUNKHOUSE ROOF PLAN - PLUMBING**  
SCALE: 1/4" = 1'-0"

GUS ENGELING WMA  
GATHERING LODGE & BUNKHOUSES  
PROJECT NUMBER: 1211534

DATE: 04/03/2024  
DESIGNED BY: ST  
DRAWN BY: MD  
REVIEWED BY: MA

REV	DATE	DESCRIPTION

**SHEET TITLE**  
BUNKHOUSE  
ROOF PLAN  
PLUMBING

**SHEET NUMBER**  
P2.02B



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 TX FIRM NO. 1452



**GUS ENGELING WMA**  
 GATHERING LODGE & BUNKHOUSES  
 PROJECT NUMBER: 1211534

DATE: 04/03/2024  
 DESIGNED BY: ST  
 DRAWN BY: MD  
 REVIEWED BY: MA

REV	DATE	DESCRIPTION

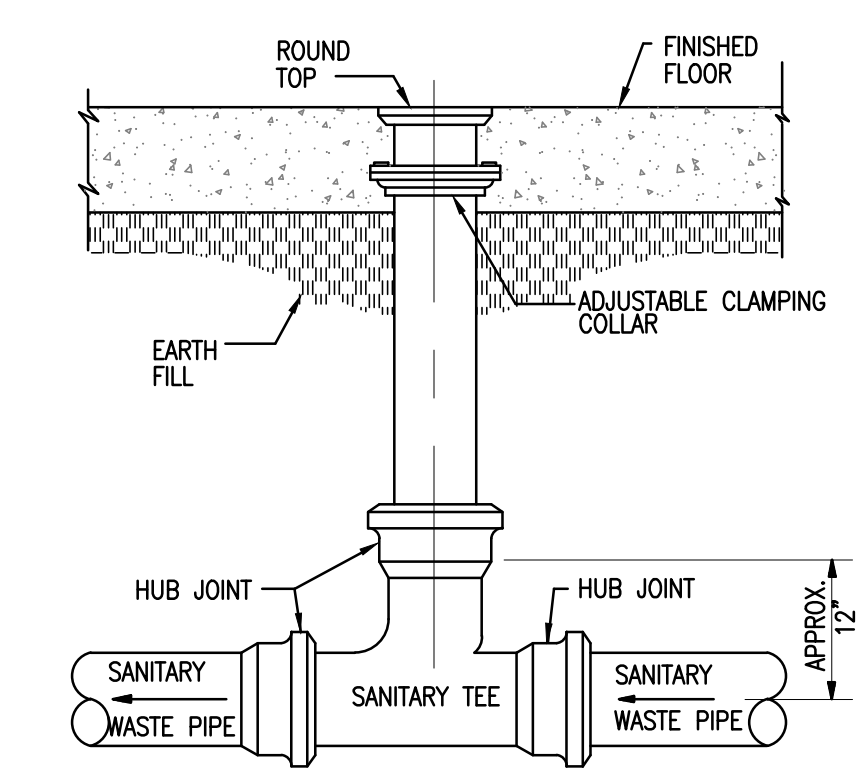
**SHEET TITLE**  
 SCHEDULES & DETAILS  
 PLUMBING

**SHEET NUMBER**  
 P7.01

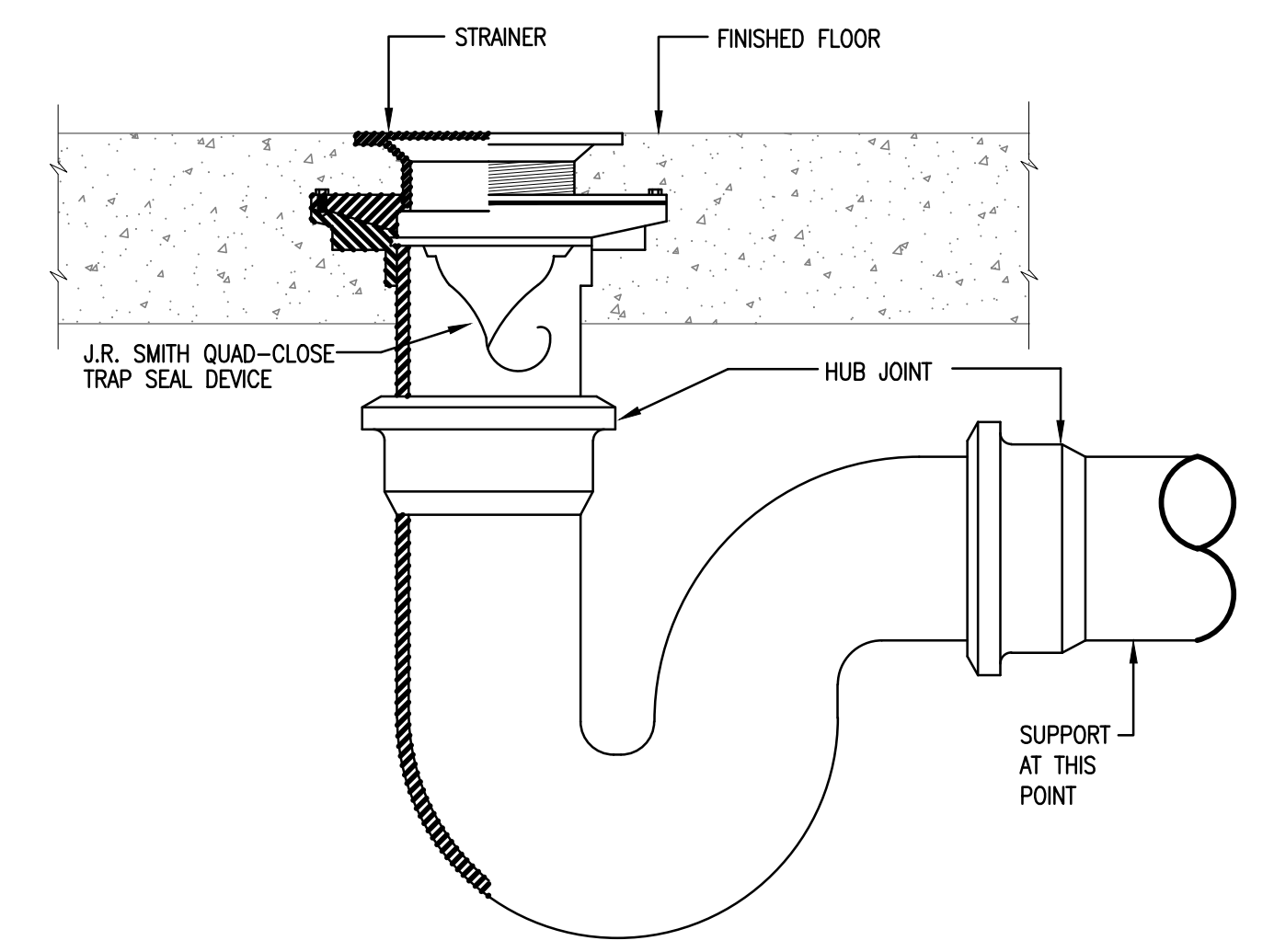
**PLUMBING FIXTURE AND TRIM SCHEDULE**

ALL FIXTURES AND TRIMS TO BE PROCURED IN COMPLIANCE WITH THE BUILD AMERICA BUY AMERICA ACT.

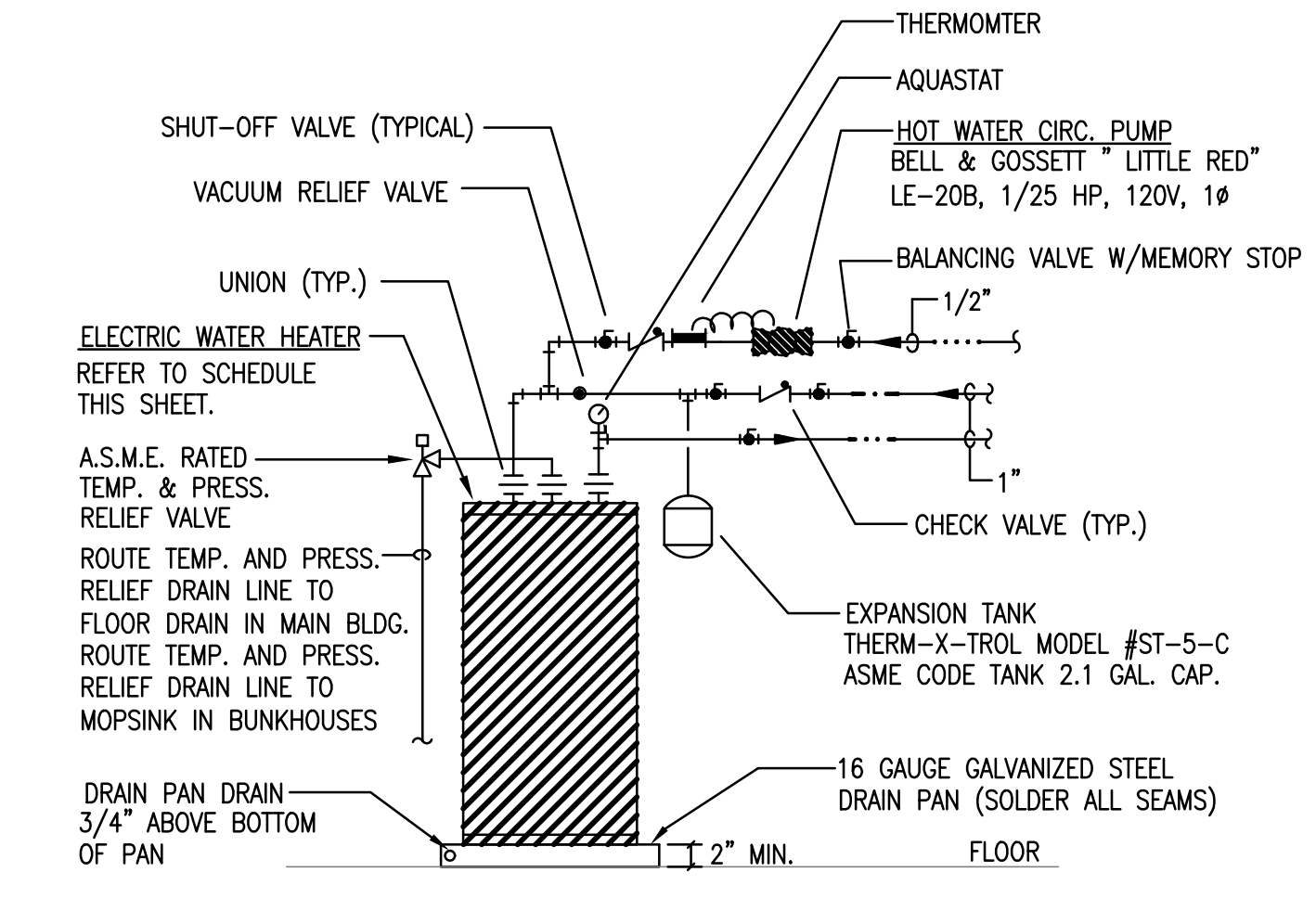
- WC-1 WATER CLOSET  
 CHAMPION MODEL #211A104.020 "PRO" RIGHT HEIGHT TWO-PIECE ELONGATED FLUSH TANK TOILET WITH FLUSH TYPE TRIP LEVER FOR 1.6 GPF, COORDINATE TRIP LEVER LOCATION RIGHT OR LEFT SIDE BASED ON WATER CLOSET LOCATION, 12" BOTTOM OUTLET ROUGH-IN, VITREOUS CHINA COLOR AS SELECTED BY ARCHITECT, AND AMERICAN STANDARD MODEL #5324.019 CHAMPION TELESCOPING SLOW CLOSE ELONGATED TOILET SEAT WITH COVER. PROVIDE SUPPLY WITH STOP AS RECOMMENDED BY MANUFACTURER.
- L-1 WALL HUNG LAVATORY  
 AMERICAN STANDARD MODEL #0356.015 "LUCERNE" VITREOUS CHINA WALL HUNG LAVATORY FOR CONCEALED ARMS SUPPORT AND FAUCET HOLES ON 8" CENTERS  
 SPEAKMAN MODEL #SC-3004-LD-E "COMMANDER" WIDESPREAD GOOSENECK LAVATORY FAUCET WITH 4" WRISTBLADE HANDLES, RIGID GOOSENECK SPOUT, AND 0.5 GPM VANDAL RESISTANT FLOW CONTROL DEVICE.  
 AMERICAN STANDARD MODEL #2411.015 GRID DRAIN WITH 1-1/4" TAILPIECE  
 MCGUIRE MODEL #H-2165 SUPPLY KIT WITH CHROME PLATED ANGLE STOPS WITH ROUND WHEELHANDLES, TWO 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS, AND TWO CHROME PLATED STEEL FLANGES  
 MCGUIRE MODEL #8872 ADJUSTABLE CHROME PLATED P-TRAP W/SET SCREW ESCUTCHEON AND INTEGRAL CLEANOUT PLUG  
 TRUEBRO MODEL #102 LAV GAUGE UNDERSINK PROTECTIVE PIPE COVERS WHITE IN COLOR WITH ONE P-TRAP, TWO ANGLE VALVE COVERS, AND TWO SUPPLY TUBE COVERS  
 J.R. SMITH MODEL #0710 FLOOR MOUNTED LAVATORY SUPPORT WITH LABOR SAVER UPRIGHT
- L-2 UNDERCOUNTER LAVATORY  
 AMERICAN STANDARD MODEL #0495.221 "OVALYN" VITREOUS CHINA UNGLAZED RIM UNDERCOUNTER LAVATORY WITH FRONT OVERFLOW, MOUNTING KIT, & TEMPLATE.  
 SPEAKMAN MODEL #SB-2011-E "CHELSEA" POLISHED CHROME SINGLE LEVER LAVATORY FAUCET AND 0.5 GPM VANDAL RESISTANT FLOW CONTROL DEVICE.  
 AMERICAN STANDARD MODEL #2411.015 GRID DRAIN WITH 1-1/4" TAILPIECE  
 MCGUIRE MODEL #H-2165 SUPPLY KIT WITH CHROME PLATED ANGLE STOPS WITH ROUND WHEELHANDLES, TWO 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS, AND TWO CHROME PLATED STEEL FLANGES  
 MCGUIRE MODEL #8872 ADJUSTABLE CHROME PLATED P-TRAP W/SET SCREW ESCUTCHEON AND INTEGRAL CLEANOUT PLUG
- KS-1 SINK (DEEP SINGLE STAINLESS STEEL)  
 ELKAY MODEL #DLRQ-312210PD 31"x22"x10-1/8" DEEP, 18 GA. TYPE 304 STAINLESS STEEL SINK WITH FOUR (4) FAUCET HOLES 4" ON CENTER FOR 3-HOLE FAUCET ESCUTCHEON, ONE HOLE FOR DISHWASHER APPROVED AIRGAP FITTING, AND CENTER PERFECT DRAIN LOCATION FOR APPROVED COMPATIBLE DISPOSER.  
 ELMHURST MODEL #P188103LF "PEERLESS" STAINLESS STEEL SINGLE HANDLE KITCHEN PULL DOWN FAUCET WITH LEVER HANDLE, 1.5 GPM.  
 ELKAY MODEL #LKPDI DRAIN KIT WITH SEAMLESS WELDED STAINLESS STEEL COLLAR, PERFECT DRAIN, AND STRAINER.  
 INSINKERATOR FOOD WASTE DISPOSER MODEL EVOLUTION COMPACT WITH MULTIGRIND, 3/4 HP MOTOR 120V/1 PH/60 HZ, STAINLESS STEEL GRIND COMPONENTS, AND DISHWASHER CONNECTION.  
 MCGUIRE MODEL #H-2165 SUPPLY KIT WITH CHROME PLATED ANGLE STOPS AND WHEEL HANDLES.  
 TWO 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS AND TWO CHROME PLATED STEEL FLANGES.  
 MCGUIRE MODEL #8912 ADJUSTABLE CHROME PLATED P-TRAP WITH SET SCREW ESCUTCHEON AND CLEANOUT PLUG.
- KS-2 SINK (ADA SINGLE STAINLESS STEEL)  
 ELKAY MODEL #LRAD252140 25" x 21-1/4" x 4" DEEP, 18 GA. TYPE 304 STAINLESS STEEL SINK WITH THREE (3) FAUCET HOLES 4" ON CENTER FOR 8" WIDESPREAD FAUCET.  
 ELMHURST MODEL #P188103LF "PEERLESS" STAINLESS STEEL SINGLE HANDLE KITCHEN PULL DOWN FAUCET WITH LEVER HANDLE, 1.5 GPM.  
 ELKAY MODEL #LK-18B TYPE 304 STAINLESS BODY, STRAINER AND TAILPIECE.  
 MCGUIRE MODEL #H-2165 SUPPLY KIT WITH CHROME PLATED ANGLE STOPS AND WHEEL HANDLES.  
 TWO 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS AND TWO CHROME PLATED STEEL FLANGES.  
 MCGUIRE MODEL #8912 ADJUSTABLE CHROME PLATED P-TRAP WITH SET SCREW ESCUTCHEON AND CLEANOUT PLUG.
- SH-1 SHOWER STALL - (ALL GUESTROOM TOILETS)  
 COMFORT DESIGNS MODEL #SST 3838 TR RR 75 ADA COMPLIANT SHOWER STALL WITH 3/4" VERTICAL THRESHOLD INTEGRAL TRENCH DRAIN, (3) SUPPORT BARS (2) HORIZONTAL AND (1) VERTICAL, (1) FOLD DOWN SEAT. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR SHOWER PAN MAKE AND MODEL.  
 MOEN COMMERCIAL CHROME SHOWER FAUCET BAR SYSTEM, THERMOSTATIC PRESSURE BALANCE HANDICAP SHOWER COMBINATION WITH SHOWER ARM AND WALL FLANGE, IN-LINE VACUUM BREAKER, 2.5 GPM HAND HELD SHOWER HEAD, 60" METAL SHOWER HOSE, & 24" COMBINATION SLIDE BAR. FOLLOW ALL MANUFACTURER INSTALLATION INSTRUCTIONS TO COMPLY WITH TAS.
- MS-1 MOP SINK  
 FIAT MODEL #ITSB100 24"x24"x12" DEEP TERRAZZO MOP SINK BASIN WITH STAINLESS STEEL CAPS ON ALL CURBS  
 FIAT MODEL #830-AA WALL MOUNTED SERVICE SINK FAUCET WITH VACUUM BREAKER SPOUT, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, WALL BRACE AND 3/4" HOSE THREAD ON SPOUT.  
 FIAT MODEL #832AA HOSE & BRACKET WITH 30" LONG HEAVY DUTY RUBBER HOSE AND STAINLESS STEEL BRACKET WITH RUBBER GRIP.  
 FIAT MODEL #889CC STAINLESS STEEL MOP BRACKET WITH THREE RUBBER TOOL GRIPS  
 FIAT MODEL #E-88-AA STAINLESS STEEL BUMPERGUARD  
 FS FIAT MODEL #1453BB STAINLESS STEEL FLAT STRAINER DRAIN, QUICK DRAIN CONNECTOR SELECTED FOR 3" DRAIN PIPE MODEL #QDC-3, AND 3" P-TRAP
- HB INDOOR HOSE BIBB  
 WOODFORD #24 HOSE BIBB WITH VACUUM BREAKER AND CHROME FINISH.
- NFHB NON-FREEZE-PROOF WALL HYDRANT  
 JAY R. SMITH #5509QT NON-FREEZE WALL HYDRANT. BRONZE NICKEL PLATED QUARTER TURN HYDRANT WITH HOSE CONNECTION, VACUUM BREAKER, "T" HANDLE KEY, STAINLESS STEEL BOX AND LOCKING COVER.
- TG FLOOR DRAIN/FLOOR SINK TRAP GUARD  
 J.R. SMITH MODEL #2692 QUAD CLOSE TRAP SEAL DEVICE.
- EWC ELECTRIC WATER COOLER  
 ELKAY MODEL #LZSTL8LFC WALL MOUNTED BI-LEVEL ADA FILTERED 8 GPH WITH LFEXI-GUARD SAFETY BUBBLER, ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION, 115V/60Hz, 5 FULL LOAD AMPS
- UR URINAL  
 ZURN MODEL #Z5755-U "OMNI-FLO" VITREOUS CHINA 14" EXTENDED RIM FOR HANDICAP COMPLIANCE WALL HUNG URINAL, WASHOUT FLUSH ACTION, 3/4" TOP SPUD 0.5 GPF, AND (2) CONCEALED WALL HANGERS.  
 SLOAN MODEL #186-0.5 ROYAL EXPOSED URINAL MANUAL 0.5 GPF FLUSH VALVE, ADA COMPLIANT, NON-HOLD OPEN HANDLE, HIGH BACK PRESSURE VACUUM BREAKER, ADJUSTABLE TAILPIECE, 3/4" TOP SPUD COUPLING AND FLANGE.  
 ZURN MODEL #Z1222 WALL URINAL SUPPORT SYSTEM WITH TOP SUPPORT PLATE. REFER TO ARCH ELEVATION DRAWINGS FOR EXACT MOUNTING HEIGHTS.
- FD FLOOR SINK (JANITOR 108)  
 JAY R. SMITH #2005-U CAST IRON BODY, NICKEL BRONZE ROUND TOP WITH VANDAL PROOF SCREWS AND TRAP GUARD.



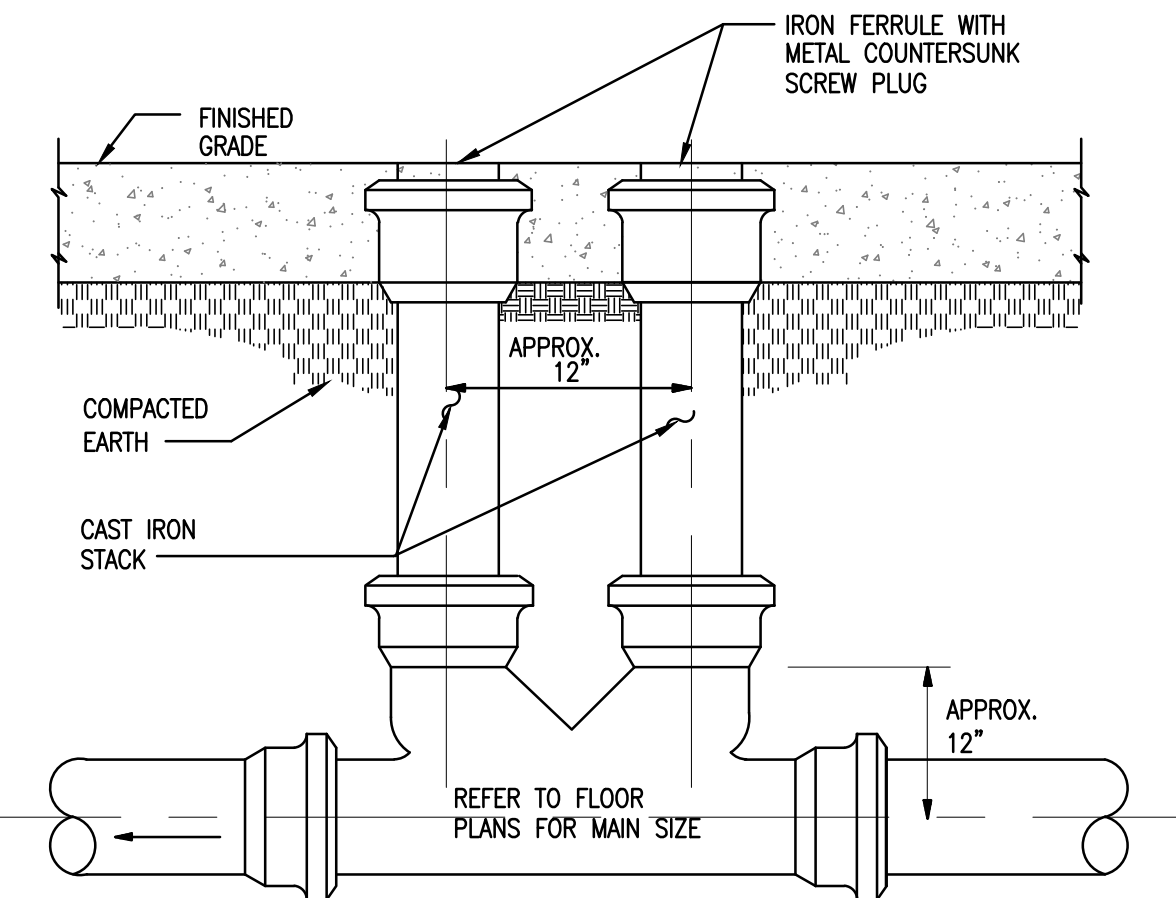
**03 CLEANOUT DETAIL**  
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**02 FLOOR DRAIN/SINK W/TRAP GUARD DETAIL**  
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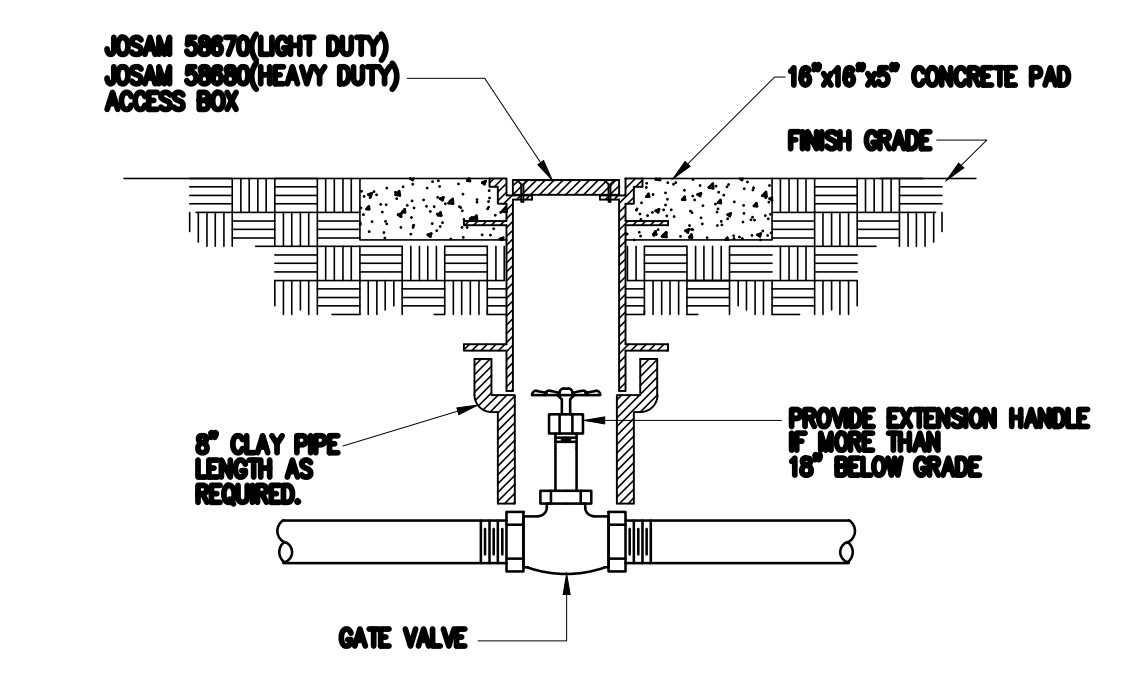


**01 Electric Water Heater Piping Detail**  
 NO SCALE



**04 TWO-WAY CLEANOUT DETAIL**  
 NO SCALE

DOMESTIC WATER HEATER								
DESIGNATION	SERVICE	TYPE	LOCATION	CAPACITY (GAL)	TEMP RISE °F @ 100°	KW/VOLTS PHASE	MANUFACTURER / MODEL #	REMARKS
WH-1	DOMESTIC HOT WATER	TANK TYPE STORAGE ELECTRIC WATER HEATER	GATHERING BUILDING MECH. ROOM	80	18 GPH	4.5 KW 208V 1 PHASE	A.O. SMITH MODEL #DEN-80	SINGLE ELEMENT OPERATION
WH-2 & 3	DOMESTIC HOT WATER	TANK TYPE STORAGE ELECTRIC WATER HEATER	BUNKHOUSE MECH ROOM	120	37 GPH	9 KW 208V 3 PHASE	A.O. SMITH MODEL #DEN-120	SIMULTANEOUS DUAL ELEMENT OPERATION



**05 SHUT-OFF VALVE DETAIL**  
 NO SCALE

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TX FIRM NO. 1452



04/03/24

**GUS ENGELING WMA**  
 GATHERING LODGE & BUNKHOUSES  
 PROJECT NUMBER: 1211534

**PLUMBING SYMBOLS**

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

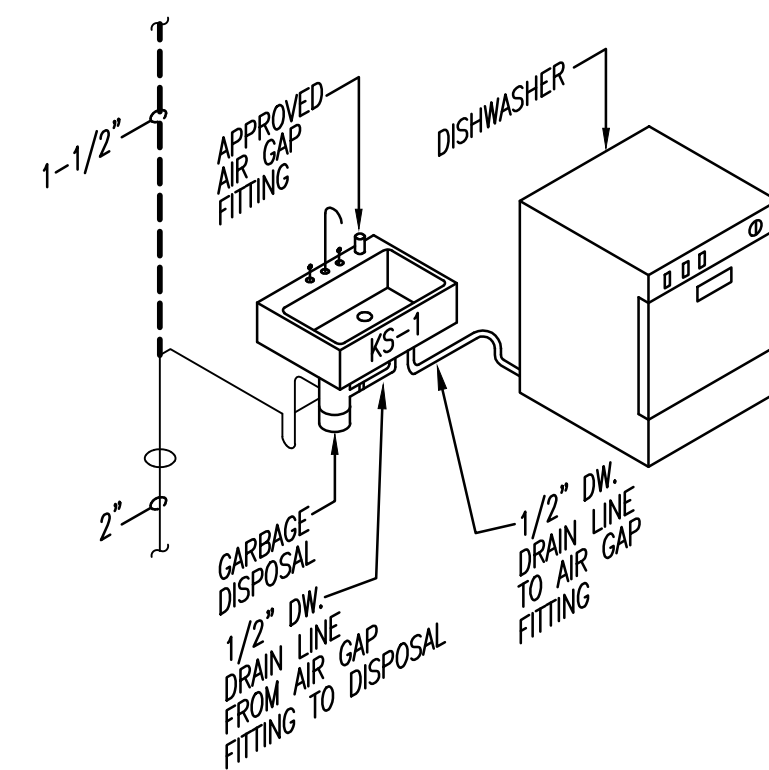
SYMBOL	DESCRIPTION
---	DOMESTIC COLD WATER PIPING
---	DOMESTIC HOT WATER PIPING
---	DOMESTIC HOT WATER RETURN PIPING
---	EXISTING PLUMBING PIPING
---	EXISTING SANITARY VENT PIPING
---	PIPING UP
---	PIPING DOWN
F	WET-PIPE FIRE PROTECTION PIPING
G	NATURAL GAS PIPING
W	WATER SERVICE
---	DIRECTION OF FLOW
---	GATE VALVE
---	BUTTERFLY VALVE
---	BALL VALVE
---	GLOBE VALVE
---	TEMPERATURE AND PRESSURE RELIEF VALVE
---	GAS COCK
---	PRESSURE REGULATING VALVE
---	CHECK VALVE
---	HYDRAULIC SHOCK ARRESTOR
---	UNION
---	HOSE BIBB OR HYDRANT
---	THERMOMETER
D	INDIRECT WASTE PIPING
SS	SANITARY SEWER PIPING
---	SANITARY VENT PIPING
RD	PRIMARY ROOF DRAIN LEADER
OD	OVERFLOW ROOF DRAIN LEADER
SD	STORM DRAIN PIPING BELOW GRADE
SSD	SUB-SOIL DRAIN PIPING
PSS	PUMPED SANITARY SEWER PIPING
PSD	PUMPED STORM DRAIN PIPING
---	P-TRAP
---	FLOOR DRAIN OR FLOOR SINK WITH P-TRAP
---	HUB DRAIN WITH P-TRAP
---	FLOOR CLEANOUT OR GRADE CLEANOUT
---	CLEANOUT OR WALL CLEANOUT
---	TRAP PRIMER SUPPLY
---	CONNECT NEW TO EXISTING

**PLUMBING ABBREVIATIONS**

AFF	ABOVE FINISHED FLOOR	SS	SANITARY SEWER
AFG	ABOVE FINISHED GRADE	SV	SANITARY VENT
A/C	ABOVE CEILING	TPV	TRAP PRIMER VALVE
B/F	BELOW FLOOR	VTR	VENT THRU ROOF
BFF	BELOW FINISHED FLOOR	(E)	EXISTING TO REMAIN
B/G	BELOW GRADE	(D)	EXISTING TO BE RELOCATED
BRF	BELOW RAISED FLOOR	(R)	RELOCATED FROM EXISTING
CO	CLEANOUT		
CW	COLD WATER		
DCO	DOUBLE CLEANOUT		
DS	DOWNSPOUT		
FCD	FLOOR CLEANOUT		
FD	FLOOR DRAIN		
FDC	FIRE DEPARTMENT CONNECTION		
GCO	GRADE CLEANOUT		
GC	GENERAL CONTRACTOR		
GW	GREASE WASTE		
HW	HOT WATER		
HWR	HOT WATER RETURN		
OD	OVERFLOW DRAIN		
ODN	OVERFLOW DOWNSPOUT NOZZLE		
PRV	PRESSURE REDUCING VALVE		
RD	ROOF DRAIN		
SD	STORM DRAIN		

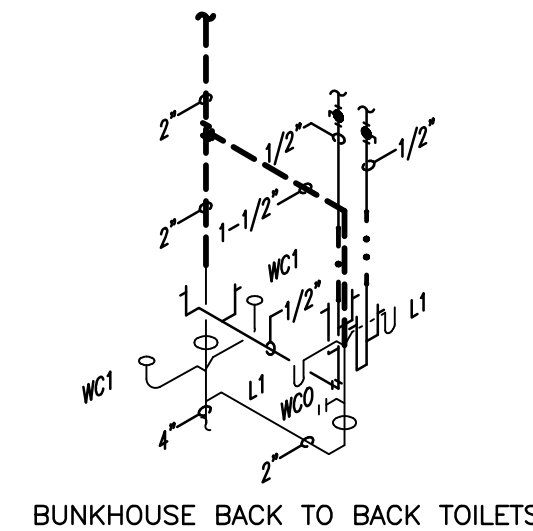
**FIXTURE CONNECTION SCHEDULE**

TYPE OF FIXTURE	WASTE	VENT	CW	HW
WATER CLOSET (FLUSH TANK)	4"	2"	1/2"	-
SHOWER	2"	2"	1/2"	1/2"
LAVATORY	2"	2"	1/2"	1/2"
SINK	2"	2"	1/2"	1/2"
MOPSINK	2"	2"	1/2"	1/2"
URINAL	3"	2"	3/4"	-

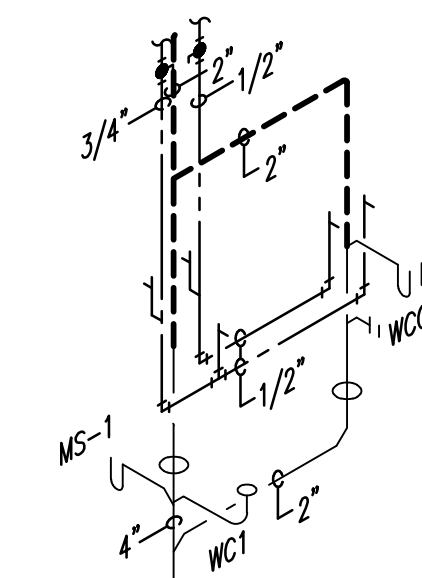


**01 DISHWASHER DRAIN CONNECTION DETAIL**

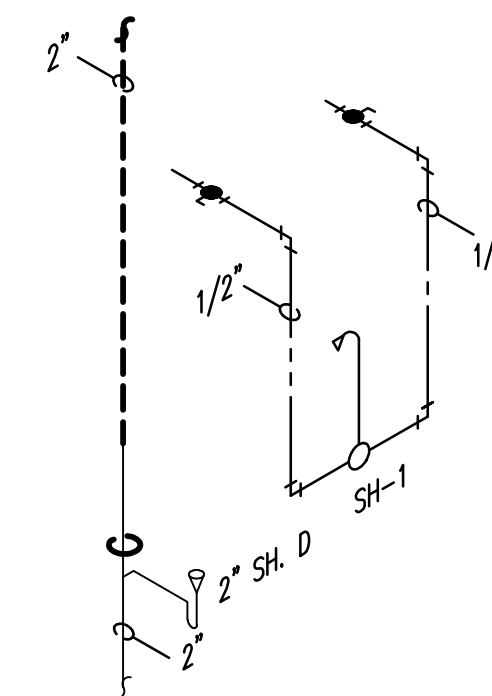
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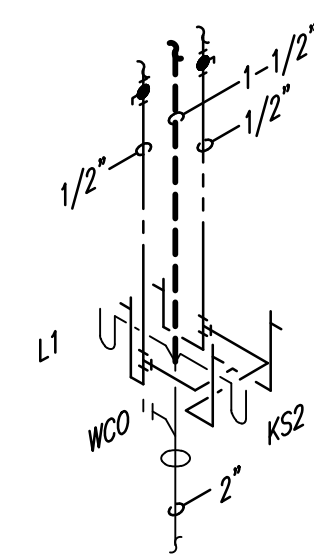
BUNKHOUSE BACK TO BACK TOILETS



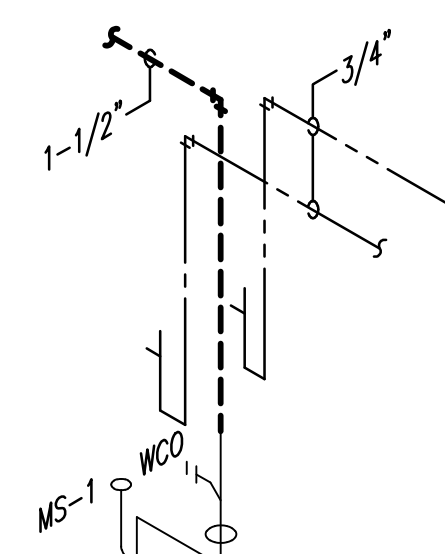
BUNKHOUSE BACK TO BACK TOILET & MOPSINK



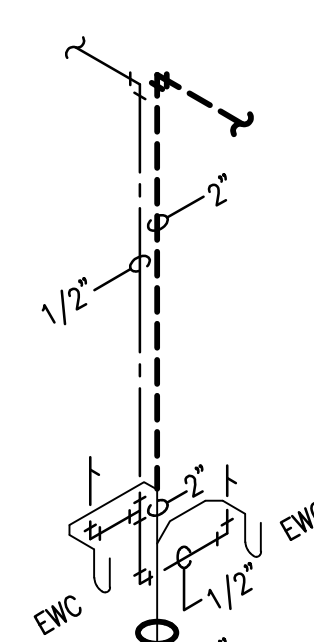
BUNKHOUSE SHOWER



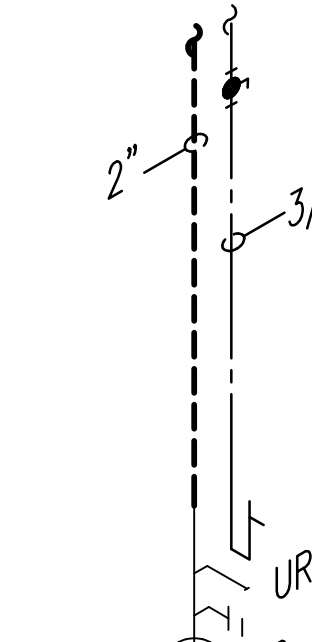
MAIN BLDG BACK TO BACK LAV & KIT SINK



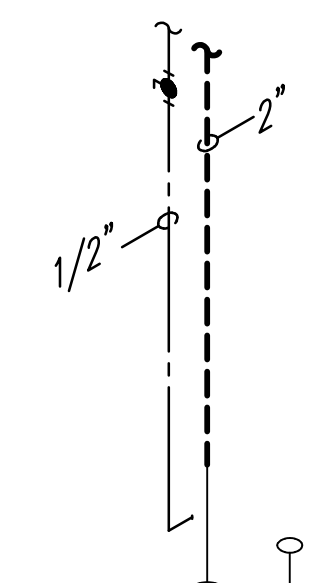
MAIN BLDG MOPSINK



MAIN BLDG EWC



MAIN BLDG URINAL



MAIN BLDG TOILET

**02 RISER DIAGRAMS**

No Scale

**SHEET TITLE**

PLUMBING RISER  
 SYMBOLS & LEGENDS  
 PLUMBING

**SHEET NUMBER**

P7.02