

TX FIRM NO. 1452

04/03/24

BUNKHOUSES

SNGELING ING LODGE & BUNK

GUS E GATHERIN

1211534

PROJ

4. UP FLOW FAN COIL UNIT WITH ELECTRICAL HEAT MOUNTED ON GALVANIZED PLENUM PLATFORM. THE 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 RUN CONDENSATE DRAIN LINE TO NEAREST FLOOR

5. CONDENSING UNIT MOUNTED ON 4" HOUSEKEEPING PAD WITH NEOPRENE ISOLATION PAD. INSULATE, FAN COIL UNIT. SIZE REFRIGERANT LINES PER

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.

8. 10" OUTSIDE AIR DUCT, PROVIDE VOLUME AND MOTORIZED DAMPER AND INTERLOCK WITH UNIT

9. 24/16 (50% FREE AREA) STORM PROOF OUTSIDE AIR INTAKE WALL LOUVER WITH INSECT SCREEN. FINISHES

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.

ARTIFACTS CAN BE INSTALLED JUST ABOVE GRILLES.

TO WALL CAP WITH INSECT SCREEN AND BACK DRAFT

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.

VENTILATED COVER. PROVIDE INSULATED MOUNTING

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

KEY NOTES

NOTE: REFERENCE NUMBER INSIDE HEXAGON

1. 52" INDOOR SENTINEL WITH LED LIGTHT 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"

CEILING CABINET EXHAUST FAN WITH INTEGRAL GRILLE,

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 SIZE, ACCESSORIES AND INSTALLATION SHALL BE PER MANUFACTURER RECOMMENDATIONS. TRAP, SLOPE AND DRAIN IN THE SAME CLOSET. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.

JACKET AND RUN REFRIGERANT LINES TO RESPECTIVE MANUFACTURER RECOMMENDATIONS. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.

7. REFER 6/M802 FOR SUPPLY AIR INSTALLATION

PER ARCHITECT.

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

15. CONNECT 3.5"/12" EXHAUST DUCT WITH FIRE WRAP

REFER TO DETAIL 4 ON M8.01.

18. PROGRAMMABLE THERMOSTAT WITH TAMPER PROOF

19. SINGLE WALL GALVANIZED STEEL DUCT WITH 2" EXTERNAL INSULATION.

20. REMOTE VENTILATION FAN CONTROLLER TO INCLUDE DIMMING LIGHTS AND FAN SPEED CONTROLS.

DOCUMENT

STRUCTION

04/03/2024

DESIGNED BY:

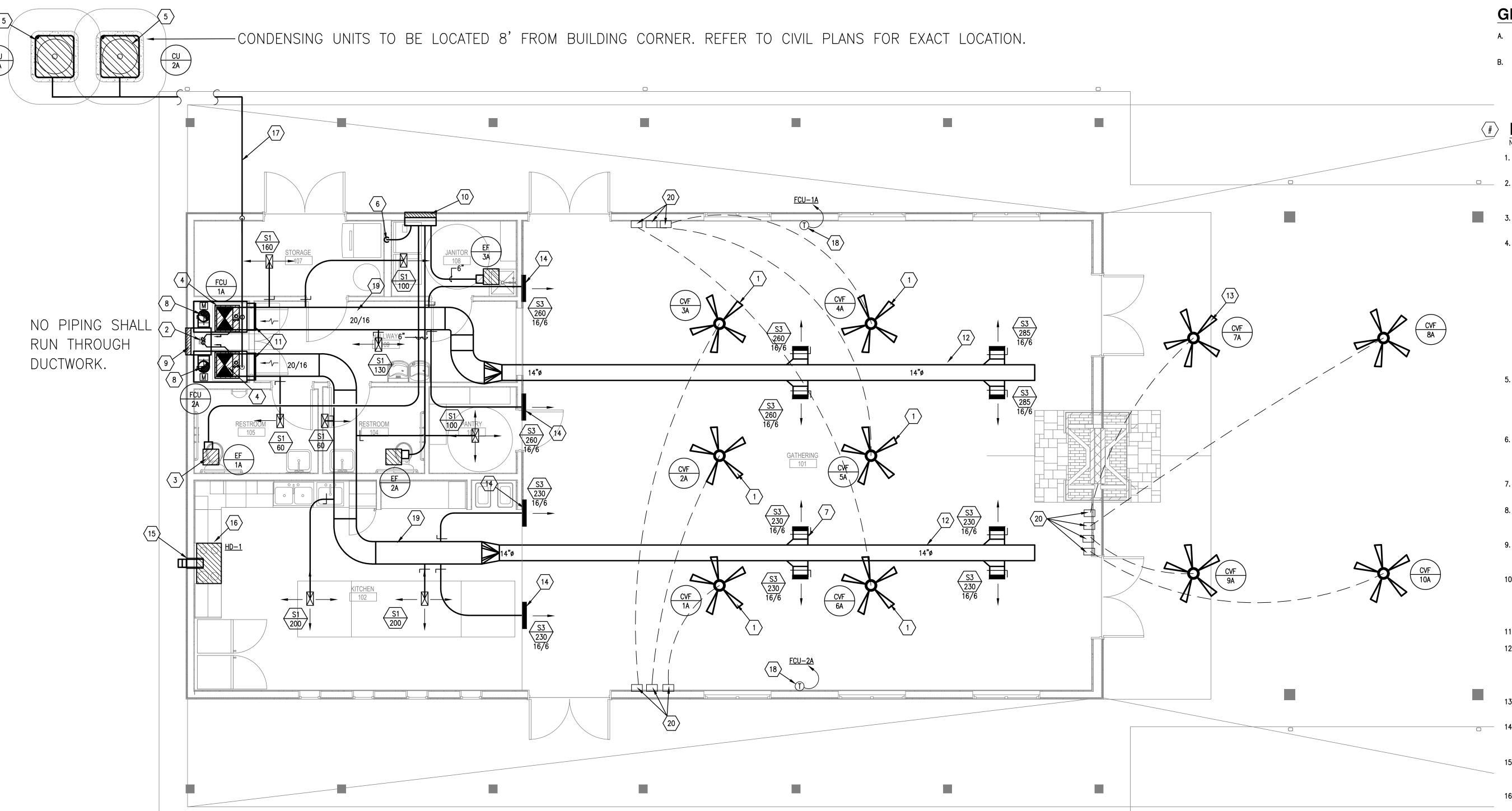
REVIEWED BY:

DRAWN BY:

SHEET TITLE

GATHERING LODGE FLOOR PLAN MECHANICAL

SHEET NUMBER



GENERAL NOTES

KEY NOTES

MECHANICAL ROOM.

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

1. 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

2. UP FLOW FAN COIL UNIT WITH ELECTRICAL HEAT MOUNTED ON PLENUM BOX.

LINES EXPOSED TO THE OUTDOOR SHALL BE JACKETED AS WELL.

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

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

WALL THROUGH A/C UNIT WITH ELECTRICAL HEAT. PROVIDE ADEQUATE SEALING

OUTDOOR DRAINAGE. REFER TO ARCHITECTURAL DETAIL 6/A5.02 FOR MOUNTING

4. 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

5. 4" VENT TO WALL CAP WITH BIRD SCREEN AND BACK-DRAFT DAMPER,

WITH THE BLOWER AND A MANUAL VOLUME DAMPER.

6. 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

LOUVER SHALL BE MOUNTED ABOUT 12" BELOW MECHANICAL ROOM CEILING.

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

9. REMOTE VENTILATION FAN CONTROLLER TO INCLUDE DIMMING LIGHTS AND FAN

10. ANSLEE WITH LIGHT 46" CEILING VENTILATION FAN BY HUNTER FAN CO,

AND INSULATION AROUND SLEEVE FOR THERMAL AND WEATHER TIGHT PROTECTION. SUPPORT, ACCESSORIES AND INSTALLATION SHALL BE PER MANUFACTURER RECOMMENDATIONS. PROVIDE COMBINATION DRAIN KIT FOR

NOTE: REFERENCE NUMBER INSIDE HEXAGON

PER MANUFACTURER RECOMMENDATIONS.

HEIGHT, TYPICAL ALL WALL THROUGH UNITS.

RECOMMENDATIONS, TYPICAL.

MOUNTED AS HIGH AS POSSIBLE.

7. RADIATION DAMPER, SEE DETAILS, TYPICAL.

CONTROL VOLTAGE, TYPICAL.

SPEED CONTROLS, TYPICAL.

FINISHES PER ARCHITECT, TYPICAL.



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SNGELING ING LODGE & BUNK GUS EI GATHERIN PROJE

04/03/2024 DESIGNED BY:

DRAWN BY: REVIEWED BY:

DOCUMENT

ONSTRUCTION

SHEET TITLE

EAST & WEST

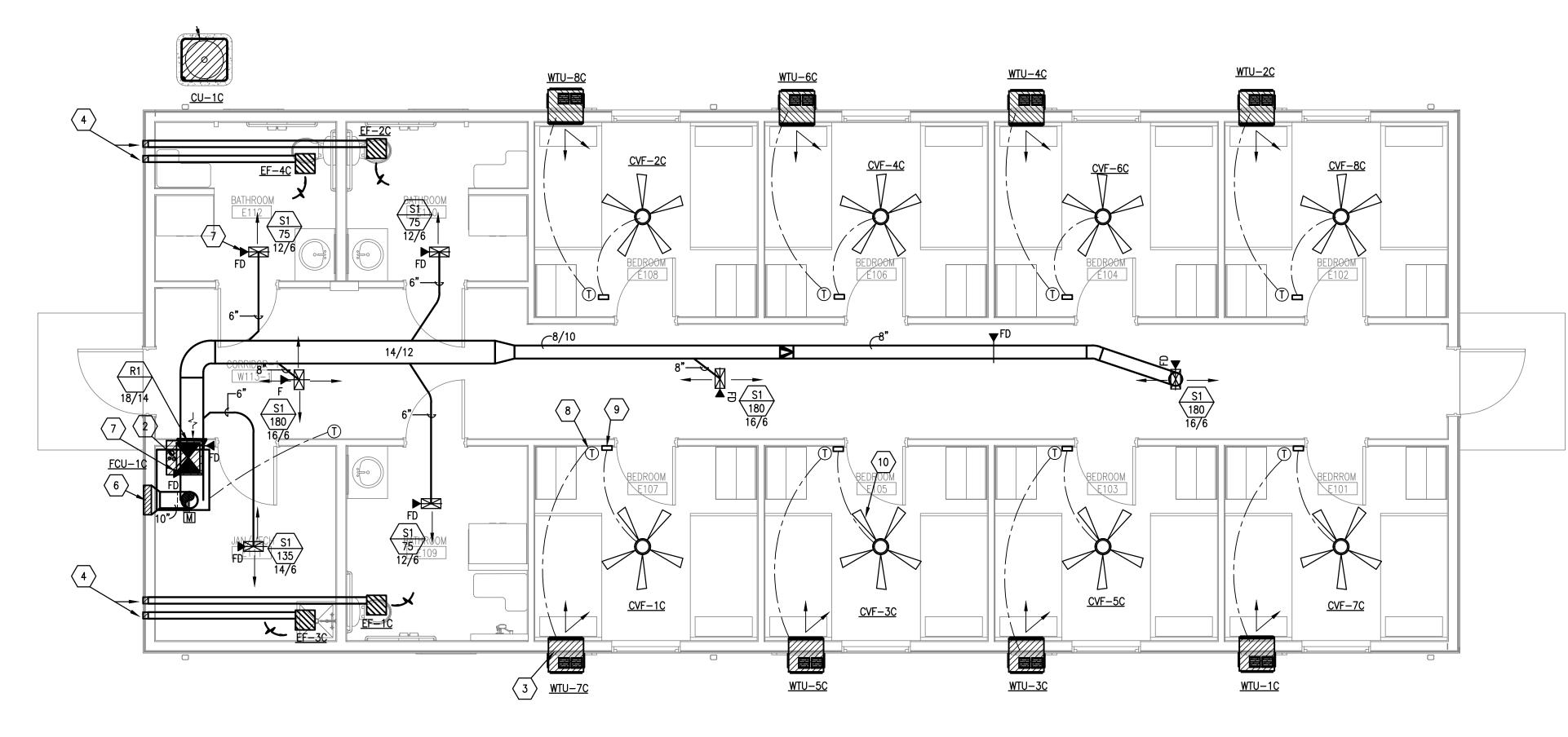
BUNKHOUSE

FLOOR PLANS MECHANICAL

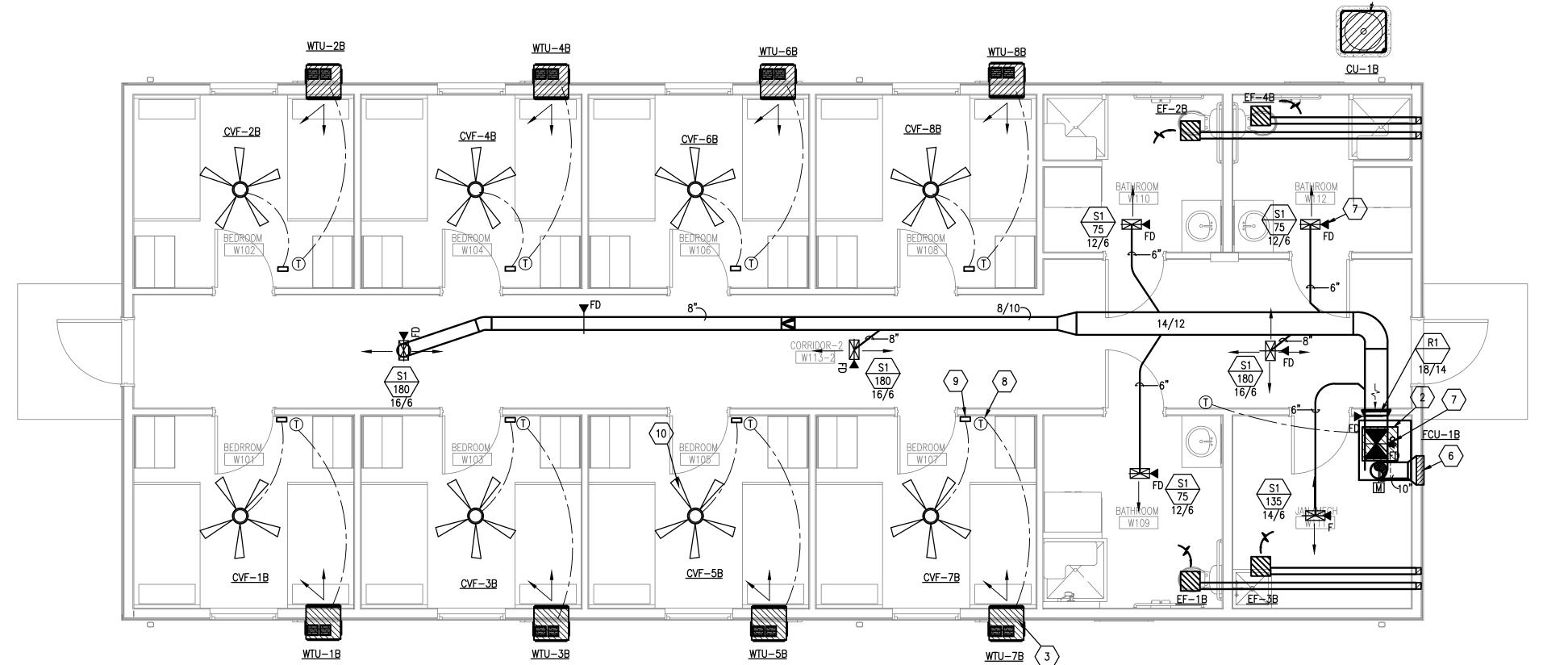
SHEET NUMBER

mwm

Design Group



01 EAST BUNKHOUSE FLOOR PLAN - MECHANICAL (ALTERNATE #1)



$\underline{\text{WTU}-7B}$ $\langle 3 \rangle$

MECHANICAL GENERAL NOTES

- <u>DRAWINGS / SPECIFICATIONS:</u> MECHANICAL DRAWINGS / SPECIFICATIONS ARE GENERALLY DIAGRAMMATIC IN NATURE AND INTENDED TO DESCRIBE AND ILLUSTRATE SYSTEMS THAT WILL NOT INTERFERE WITH THE ARCHITECTURAL / STRUCTURAL CONDITIONS OF THE BUILDING, AND WILL FIT INTO AVAILABLE SPACES. CAREFULLY LAY OUT ALL WORK TO CONFORM TO THE ARCHITECTURAL, STRUCTURAL, FINISH CONDITIONS, MANUFACTURE EQUIPMENT / FIXTURE CUTSHEETS AND WITH OTHER TRADES, TO AVOID OBSTRUCTIONS, AND TO ALLOW THE PROPER INSTALLATION OF EACH ITEM. CONTRACTOR SHALL OBTAIN ALL ARCHITECTURAL DATA, LOCATIONS OF WALLS, PARTITIONS, FIXTURES, CEILING HEIGHTS, FINISHES, ETC. FROM ARCHITECTURAL DRAWINGS AND STRUCTURAL DATA, LOCATIONS OF PIERS, BEAMS, COLUMNS, JOISTS, ETC. FROM STRUCTURAL DRAWINGS. CONTRACTOR SHALL PROVIDE OFFSETS, RELOCATIONS, ETC.. AS REQUIRED TO MEET THIS INTENT AT NO ADDITIONAL COSTS
- CONTRACT DOCUMENTS: CONTRACTOR SHALL BE RESPONSIBLE TO EXAMINE THE CONTRACT DOCUMENTS CAREFULLY BEFORE SUBMITTING HIS BID, WITH PARTICULAR ATTENTION TO ERRORS, OMISSIONS, CONFLICTS WITH PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE A/E ATTENTION FOR CORRECTION. SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED AND ADJUSTED IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK; OTHERWISE, HE SHALL, AT HIS OWN EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD ANY DAMAGE OR DEFECTS IN HIS WORK OR THE RESULTS OBTAINED THEREFROM, CAUSED BY SUCH DISCREPANCY. THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE REQUIREMENTS OF THE CONTRACT. UPON COMMENCEMENT OF CONSTRUCTION FOR THE WORK INCLUDED IN THIS CONTRACT, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH A STUDY OR EXAMINATION AND ACCEPTS ALL CONDITIONS.
- CONFLICTS: WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, THE BETTER QUALITY SHALL PREVAIL UNLESS THE ARCHITECT INFORMS THE CONTRACTOR OTHERWISE IN WRITING.
- MECHANICAL SYSTEM: CONTRACTOR SHALL PROVIDE A MECHANICAL INSTALLATION THAT IS COMPLETE AND ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONING MECHANICAL SYSTEM.
- EQUIPMENT, PIPING, DUCTWORK: ALL MECHANICAL EQUIPMENT, MECHANICAL PIPING, DUCTWORK, ETC... SHALL BE LOCATED APPROXIMATELY IN GENERAL LOCATIONS SHOWN, CONFORM TO ALL ARCHITECTURAL AND STRUCTURAL CONDITIONS. PROVIDE ANY ADDITIONAL SUPPORTS, HANGERS, OPENINGS, ETC., AS REQUIRED FOR A COMPLETE INSTALLATION. MECHANICAL FOUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR SERVICE INTENDED. EXPERIENCED CRAFTSMEN SHALL MAKE THE INSTALLATION OF ALL EQUIPMENT IN A NEAT WORKMANSHIP LIKE MANNER. MECHANICAL EQUIPMENT SHALL BE AS SCHEDULED OR APPROVED EQUAL AND INSTALL IN FULL ACCORDANCE WITH ALL APPLICABLE CODES HAVING JURISDICTION. COORDINATE BETWEEN ALL TRADES PRIOR TO STARTING ANY WORK. PROVIDE ADEQUATE CLEARANCE FOR PROPER OPERATION, SERVICE / MAINTENANCE, AIR FLOW, ETC...
- CODES AND ORDINANCES: EXECUTE ALL WORK FOLLOWING LOCAL, STATE AND/OR NATIONAL CODES, ORDINANCES, AND REGULATIONS GOVERNING THE PARTICULAR CLASS OF WORK INVOLVED. THE GOVERNING CODES ARE MINIMUM REQUIREMENTS. THE DRAWINGS AND/OR SPECIFICATIONS SHALL PREVAIL WHERE THE DRAWINGS ARE/OR ACCOMPANYING SPECIFICATIONS EXCEED THE CODE REQUIREMENTS.
- SHOP / RECORD DRAWINGS: CONTRACTOR SHALL PROVIDE DETAILED AND DIMENSIONED HVAC DUCTWORK AND PIPING FABRICATION SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT / ENGINEER. DURING THE INSTALLATION OF THE WORK. THE CONTRACTOR SHALL KEEP DETAILED RECORDS OF ANY AND ALL CHANGES MADE FROM THE CONTRACT DRAWINGS. AFTER FINAL COMPLETION REVISE A SET OF CONTRACT DRAWINGS TO ILLUSTRATE THE WORK AS ACTUALLY INSTALLED, THESE RECORD DRAWINGS SHALL BE NOTED "AS-BUILT", AND SUBMITTED TO THE ARCHITECT / ENGINEER FOR REVIEW WITH ALL O&M MANUALS.
- EQUIPMENT / PIPING SUPPORTS: PROPERLY SUPPORT ALL MECHANICAL EQUIPMENT AND PIPING WITHIN THE BUILDING AND PROVIDE ADEQUATE PROVISIONS FOR SLOPE AND ANCHORAGE. CONTRACTOR SHALL USE HANGERS, RODS AND INSERTS APPROVED BY UNDERWRITERS LABORATORIES FOR THE SERVICE INTENDED. SECURELY SUPPORTED BY STRUCTURAL MEMBERS WHICH IN TURN ARE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE.
- MECHANICAL EQUIPMENT, DUCTWORK, PIPING: DUCTWORK AND PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS, INSIDES CHASES / WALLS, ETC...IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISE. CONFORM TO ALL ARCHITECTURAL, STRUCTURAL, AND FINISH CONDITIONS OF BUILDING. WHEREVER CONDITIONS ARISE WHICH WILL CAUSE NORMALLY CONCEALED MATERIALS TO BE EXPOSED. IMMEDIATELY CALL THE SITUATION TO THE ATTENTION OF THE ARCHITECT AND STOP WORK IN THOSE AREAS UNTIL THE ARCHITECT DIRECTS THE RESUMPTION OF THE WORK AND THE PROCEDURES TO BE FOLLOWED.
- HVAC PIPING: SLOPE AND ARRANGE HVAC PIPING TO ESTABLISH HIGH POINTS FOR AIR ELIMINATION AND LOW POINTS TO PERMIT PROPER DRAINAGE, PROVIDE AIR VENTS AT HIGH POINTS AND DRAIN VALVES AT LOW POINT.
- THERMOSTATS / SENSORS: THERMOSTATS / SENSORS SHALL BE MOUNTED AT 48" AFF APPROX AS SHOWN, MAX 12" FROM END OF WALL AND/OR DOOR JAMB. COORDINATE EXACT LOCATIONS WITH ARCHITECT AND BETWEEN TRADES PRIOR TO MOUNTING. DO NOT MOUNT ABOVE DIMMERS.
- FIRE FIRE/SMOKE DAMPERS: FIRE AND FIRE/SMOKE DAMPERS SHALL BE INSTALLED AS INDICATED AND WHERE MAY BE OTHERWISE REQUIRED BY LOCAL CODES AND ORDINANCES. REFER TO ARCH DWGS / BUILDING CODE SUMMARY / LIFE SAFETY PLANS FOR LOCATIONS OF ALL FIRE RESISTANT - RATED WALLS, CEILINGS, CHASES / SHAFTS, SMOKE COMPARTMENTS, AND LOCATIONS OF EGRESS CORRIDORS. PROVIDE MEANS TO ADEQUATELY SERVICE THE DAMPERS FUSIBLE LINKS, PROVIDE 12" X 12" MINIMUM METAL ACCESS DOORS IN ALL GYP BD CEILINGS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND UL LISTING FOR SERVICE INTENDED. PROVIDE METAL SLEEVES AS REQUIRED.
- DUCTWORK CONSTRUCTION: DUCTWORK SHALL BE CONSTRUCTED ACCORDING TO SMACNA STANDARDS AND SPECIFICATIONS. ALL DUCT AND FIRE DAMPER SIZES SHOWN ARE AIRSTREAM DIMENSIONS. ALL LONGITUDINAL AND TRANSVERSE SEAMS AND DUCT CONNECTIONS SHALL BE SECURELY FASTENED AND SEALED AIRTIGHT.
- AIR DEVICES: CEILING-MOUNTED AIR DEVICES SHALL BE LOCATED APPROXIMATELY AS SHOWN, FOR EXACT LOCATION AND FRAME MOUNTING TYPES, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. ALL CEILING DIFFUSERS TO BE 4-WAY TYPE, UNLESS NOTED OTHERWISE BY AIRFLOW ARROWS ON FLOOR PLAN. (INSULATE THE BACK OF CEILING DIFFUSERS UNLESS CEILING SPACE IS USED AS A RETURN AIR PLENUM.) REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS, OF ALL CEILING FEATURES, LIGHTS, AIR DEVICES, FINISHES, CEILING HEIGHTS AND ELECTRICAL DRAWINGS FOR SPEAKERS, DETECTORS, POWER OUTLETS, ETC... AND FIRE PROTECTION SHOP DRAWINGS FOR FIRE SPRINKLER HEADS. COORDINATE EXACT LOCATIONS WITH ARCHITECT AND BETWEEN TRADES PRIOR TO MOUNTING.
- BRANCH DUCT RUN-OUTS: BRANCH DUCT RUN-OUTS TO CEILING-MOUNTED AIR DEVICES SHALL BE SAME SIZE AS NECK. UNLESS NOTED OTHERWISE. PROVIDE A TWIST-IN FLARED CONICAL TAP WITH MANUAL VOLUME DAMPER AT MAIN DUCT TAP AND FXTEND AS SHOWN. FXTEND FLEX DUCTWORK A MAXIMUM OF 6'-0" FROM DIFFUSERS. INSTALL AS STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS WITH CLAMPS TO BE USED AT BOTH ENDS. ALL DAMPERS LOCATED ABOVE A GYP BD CEILINGS PROVIDE REMOTE DAMPER ACTUATORS EQUAL TO YOUNG REGULATORS MODEL
- TURNING VANES: TURNING VANES SHALL BE INSTALLED IN ALL ELBOWS OF SUPPLY AND RETURN AIR DUCTS AND AIR EXTRACTORS OR SPLITTER DAMPERS WITH EXTERNAL ADJUSTMENTS AT ALL RECTANGULAR BRANCH DUCT TAKE-OFFS TO AIR DEVICES. PROVIDE ADEQUATE ACCESS AND MEANS TO ADJUST / BALANCE ALL AIR EXTRACTORS AND DUCT TAKE-OFFS.
- MEDIUM PRESSERE DUCT RUN-OUTS: BRANCH MEDIUM PRESSURE DUCT RUN-OUTS TO VAV AIR TERMINALS SHALL BE SAME SIZE AS VAV AIR TERMINAL NECK, UNLESS NOTED OTHERWISE. INCREASE DUCT SIZE BY 2" IF GREATER THAN 10'-0' FROM MAIN AND / OR MORE THAN 2 - 90 DEG ELBOWS.
- EQUIPMENT ACCESS PANEL: ACCESS PANELS SHALL BE PROVIDED FOR EACH LOCATION WHERE MECHANICAL EQUIPMENT, MANUAL VALVES, AUTOMATIC CONTROL VALVES, AUTOMATIC DAMPER MECHANISM, FIRE / SMOKE DAMPER, ETC. ARE INSTALLED BEHIND FURRINGS, CHASES, OR NON-REMOVABLE SUSPENDED CEILING. SIZE AND POSITION EACH ACCESS PANEL SO THAT THE CONCEALED EQUIPMENT CAN BE PROPERLY SERVICED, MINIMUM SIZE SHALL BE 24" X 24" UNLESS FIELD CONDITIONS DICTATE OTHERWISE. REFER TO ARCH DWGS / SPECS AND COORDINATE WITH GENERAL CONTRACTOR AND FOR EXACT LOCATION, CONDITIONS, SIZES, FINISHES, SPECS, ETC
- REMOTE DAMPER ACTUATORS: PROVIDE REMOTE DAMPER ACTUATORS FOR EACH LOCATION WHERE VOLUME DAMPERS ARE INSTALLED BEHIND FURRINGS, CHASES, OR NON-REMOVABLE SUSPENDED CEILING. SIZE AND POSITION REMOTE DAMPER ACTUATORS SO THAT THE CONCEALED VOLUME DAMPERS CAN BE ADJUSTED. COORDINATE WITH ARCHITECTURAL AND GENERAL CONTRACTOR FOR APPROVAL, EXACT LOCATION, CONDITIONS, SIZES, FINISHES, ETC....
- CONTRACTOR SHALL INSURE THE FURNISHING AND INSTALLATION OF ALL BRANCH ELECTRICAL CIRCUIT WIRING, CONDUITS, PROTECTIVE DEVICES, DISCONNECTS, AND ACCESSORIES FOR ALL ELECTRICAL CONTROL POWER WIRING TO INCLUDE BUT NOT LIMITED TO; CONTROL PANELS, ACTUATORS, SMOKE DETECTORS, CONTROL / MOTORIZED DAMPERS, PRESSURE MONITORS FIRE/SMOKE DAMPERS, VARIABLE FREQUENCY DRIVES, VAV TERMINALS (24V TRANSFORMER) AND ALL OTHER 120V CONTROLS AS REQUIRED FOR A COMPLETE CONTROL SYSTEM WHETHER SHOWN TO BE PERFORMED BY OTHERS OR NOT. ALL ELECTRICAL WORK SHALL BE INSTALLED IN FULL ACCORDANCE WITH THE REQUIREMENTS OF DIVISION 26 ELECTRICAL REQUIREMENTS COORDINATE WITH ELECTRICAL CONTRACTOR. CONTROLS SHALL BE DDC AND SHALL CONNECT TO THE BUILDING AUTOMATION SYSTEM (BAS).
- ALL EXISTING LOW AND MEDIUM PRESSURE DUCTS TO REMAIN SHALL BE TESTED FOR LEAKAGE. DUCTWORK FAILED THE TEST SHALL BE RESEALED OR REPLACE AS REQUIRED.
- REMOVE DAMAGED INSULATION ON EXISTING INSULATED DUCTWORK AND REPLACE WITH NEW ONE PER SPECIFICATIONS
- . ALL EXISTING REMAINING EQUIPMENT TO BE REUSED SHALL BE CLEANED, CONDITIONED AND TESTED FOR PROPER OPERATION AS WAS ORIGINALLY DESIGNED.





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BUNKHOUSE 2 Z $\mathbf{\omega}$ NOM H HERIN GATI

DATE: 04/03/2024 DESIGNED BY: DRAWN BY: REVIEWED BY:

> SHEET TITLE SYMBOLS, LEGEND & GENERAL NOTES

> > MECHANICAL

SHEET NUMBER



BUTTERFLY VALVE EXISTING SUPPLY DIFFUSER TO BE REMOVED OR RELOCATED BALL VALVE GLOBE VALVE NEW R/A OR EXHAUST GRILLE TEMPERATURE AND PRESSURE RELIEF VALVE EXISTING R/A OR EXHAUST GRILLE AUTOMATIC 2-WAY CONTROL VALVE EXISTING R/A OR EXHAUST GRILLE TO BE REMOVED OR RELOCATED AUTOMATIC 3-WAY CONTROL VALVE **NEW SLOT DIFFUSER** PLUG VALVE/BALANCING COCK ₩-FLEXIBLE DUCT SOLENOID VALVE EXISTING SLOT DIFFUSER CHECK VALVE **─!**\ EXISTING SLOT DIFFUSER TO BE REMOVED OR RELOCATED ____ HYDRAULIC SHOCK ARRESTOR **THERMOSTAT** ----→ VALVE IN VERTICAL EXISTING THERMOSTAT TO BE REMOVED OR RELOCATED UNION 45° PRESSURE TAP W/ VOLUME DAMPER ___________ VACUUM BREAKER CONICAL TAP WITH VOLUME DAMPER P-TRAP $---\infty$ CONICAL TAP W/O VOLUME DAMPER FLOOR DRAIN W/ P-TRAP MANUAL VOLUME DAMPER HUB DRAIN FIRE DAMPER FLOOR CLEANOUT OR GRADE CLEANOUT ——ю **---**■S SMOKE DAMPER CLEANOUT OR WALL CLEANOUT ——— FIRE/SMOKE DAMPER PETE'S PLUG MOTORIZED DAMPER 十 GAUGE COCK BAROMETRIC DAMPER THERMOMETER — CHS CHILLED WATER SUPPLY PIPE — CHR CHILLED WATER RETURN PIPE ----- THERMOMETER WELL CONDENSER WATER SUPPLY PIPE —— cs — STRAINER WITH BLOW-OFF VALVE —— CR — CONDENSER WATER RETURN PIPE $-\!\!\!-\!\!\!\otimes\!\!-$ F & T STEAM TRAP —— RL — REFRIGERANT LIQUID PIPE $-\boxtimes$ STEAM BUCKET TRAP —— RG — REFRIGERANT GAS PIPE CONNECT TO EXISTING HEATING WATER SUPPLY —— HS —— ELECTRIC PNEUMATIC SWITCH HEATING WATER RETURN —— HR —— MECHANICAL ABBREVIATIONS ABOVE CEILING EUH ELECTRIC UNIT HEATER COMPUTER ROOM UNIT OPPOSED BLADE DAMPER ABOVE FINISHED FLOOR FCU FAN COIL UNIT CONDENSING UNIT RELOCATED ANALOG INPUT FAN POWERED BOX RETURN AIR DIGITAL INPUT ANALOG OUTPUT DIGITAL OUTPUT FINS PER INCH SUPPLY AIR BELOW FLOOR DISCONNECT SWITCH GENERAL CONTRACTOR UNIT HEATER BELOW FINISHED CEILING MANUAL VOLUME DAMPER WATER-SOURCE HEAT PUMP EXISTING BELOW GRADE N NEW ELECTRIC DUCT HEATER VARIABLE AIR VALVE EDH EXHAUST FAN WATER HEATER

MECHANICAL SYMBOLS

—— HPS ——

— HPR —

--- LPS --

--- LPR --

— PCR —

—— CD —

—— P —

 \longrightarrow

HIGH PRESSURE STEAM

LOW PRESSURE STEAM

DOMESTIC COLD WATER

DOMESTIC HOT WATER

SANITARY WASTE LINE

PUMPED SANITARY LINE

DIRECTION OF SLOPE

DIRECTION OF FLOW

EXPANSION LOOP

GATE VALVE

CONDENSATE DRAIN

VENT LINE

HIGH PRESSURE CONDENSATE RETURN

LOW PRESSURE CONDENSATE RETURN

PUMPED CONDENSATE RETURN

DOMESTIC HOT WATER RETURN

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

NEW EQUIPMENT DESIGNATION

NEW DIFFUSER DESIGNATION

NEW EQUIPMENT

NEW DUCT

EXISTING DUCT

EXISTING EQUIPMENT

NEW SUPPLY DIFFUSER

EXISTING SUPPLY DIFFUSER

(TOP - EQUIP. ABBREV., BOTTOM - MARK)

(TOP - SCHEDULE DESIG., BOTTOM - CFM)

EXISTING DUCT TO BE REMOVED OR RELOCATED

DESCRIPTION

SYMBOL

12579

3

REMARKS/NOTES

CEILING SUPPLY AIR DIFFUSER 135678

SIDEWALL SUPPLY AIR GRILLE 378

CUSTOM MADE SLOT DIFFUSER WITH 378

CEILING SUPPLY AIR DIFFUSER (1) (3) (5) (6) (7)

INSULATED PLENUM

CEILING EGGCRATE RETURN AIR

CEILING EXHAUST AIR DIFFUSER

CEILING EGGCRATE RETURN AIR

SIDEWALL RETURN AIR GRILLE

UP TO 290 8/8 291 TO 450 12/8 451 TO 700 12/12 701 TO 1200 16/16

SIDEWALL RETURN AIR GRILLE

SIDEWALL RETURN AIR GRILLE

W/ 1" FILTER

RETURN AND EXHAUST TYPE AIR DEVICES

FCU-1C

EAST BUNKHOUSE

2 1/2

225

1000

0.5

2.8

80.0/67.0

20.0

30.0

7.2

MODULATING

47/50

208/1

CU-1C

208/1

20

THROWAWAY/MERV 8

TRANE

GAM5B0B30M21

4TTB4030E1

200

ELECTRIC/ 24.6

NECK SIZE CFM

AIR DEVICE SCHEDULE

MANUFACTURER/MODEL NO.

TITUS 250-AA

TITUS TMS-AA

TITUS 272 RL

TITUS FL-25

TITUS 355RL

TITUS 50F

TITUS 350FLF1

TITUS 50F

TITUS 50F

TITUS 355 FL

NECK SIZE

SEE PLANS

SEE PLANS

SEE PLANS

SEE PLANS

SEE PLANS

SUPPLY TYPE DIFFUSERS

7 DO NOT SCREW THRU FACE OF DEVICE UNLESS SCREW HOLES ARE PROVIDED BY MANUFACTURER. 10 COORDINATE FINISH WITH ARCHITECT.

SPLIT SYSTEM SCHEDULE

GATHERING LODGE

2,000

0.5

1.0

7.6

80.0/67.0

48.2

53.9

7.2

7.2

MODULATING

ELECTRIC/ 49,200

53/60

43/45

208/1

CU-2A

208/1

THROWAWAY/MERV 8

TRANE

GAM5B0C60M51

4TTAB4060E1

200

NECK SIZE

FCU-1B

2 1/2

1000

0.5

2.8

80.0/67.0

20.0

30.0

7.2

MODULATING

47/50

208/1

CU-1B

208/1

20

THROWAWAY/MERV 8

TRANE

GAM5B0B30M21

4TTB4030E1

200

ELECTRIC/ 24.6

WEST BUNKHOUSE

THROW

4-WAY (UNO)

4-WAY

DEFLECTION

SIZE

NK+1.75"

24/24

12/12

NECK +2"

18" LONG

6" WIDE

NK+1.75"

12/24 12/12

NK+1.75"

24/24

12/12

NECK +2"

(2) ALL ALUMINUM CONSTRUCTION.

MARK (FURNACE COIL UNIT)

SUPPLY CFM

EXT. S.P. ("WG) FAN MOTOR HP

MOTOR AMPS

EAT DB/WB (°F)

SENS. HEAT (MBH)

TOTAL HEAT (MBH)

CIRCUIT #1 (KW)

CIRCUIT #2 (KW)

TYPE OF HEAT/ (MBH)

CIRCUIT #1 MCA/MOCP

CIRCUIT #2 MCA/MOCP

STAGES

VOLTS/PH

VOLTS/PH

FILTER TYPE AND RATING

듯合 FAN COIL UNIT

FAN COIL UNIT CONDENSING UNIT

CONDENSING UNIT

1 PROVIDE DISCONNECT SWITCH FOR EACH CIRCUIT.

4. PROVIDE COMPATIBLE PROGRAMMABLE THERMOSTAT.

MCA

∃ | MOCP

MANUFACTURER

MARK (CONDENSING UNIT)

TONNAGE

OUTSIDE AIR CFM

(3) PROVIDE WITH NECK AS INDICATED:

YES

NO

(1) PROVIDE WITH APPROPRIATE MOUNTING FOR INSTALLED CEILING.

FCU-1A

GATHERING LODGE

2,000

0.5

1.0

7.6

80.0/67.0

48.2

53.9

7.2

7.2

MODULATING

ELECTRIC/ 49,200

53/60

43/45

208/1

CU-1A

208/1

THROWAWAY/MERV 8

TRANE

GAM5B0C60M51

4TTAB4060E1

200

260

ALL

5. UNITS SHALL BE PROVIDED WITH MERV 8 FILTERS. PROVIDE 3 SETS OF FILTERS.

6 CONTRACTOR SHALL COORDINATE SIZE OF CONDENSING UNIT WITH BLOWER COIL.

2 PROVIDE REFRIGERANT PIPING TO EVAPORATOR COIL SIZED AND ROUTED IN ACCORDANCE

6. UNITS SHALL NOT BE OPERATED WITHOUT A FILTER OR GRILLE IN PLACE.

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) 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.

FINISH



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BUNKHOUSES

04/03/2024 DESIGNED BY: DRAWN BY: REVIEWED BY:

SHEET TITLE

SHEET NUMBER

mwm **Design** Group

04/03/24

NGELING

WMA

12 GUS E GATHERIN

SCHEDULES

WALL	THROUGH	A/C UNITS	SCHEDULE
			COLLEGE

		1	1	_	•	•	•	•	1		_	•	_	_	_	•	
MARK	(WTU-1B	WTU-2B	WTU-3B	WTU-4B	WTU-5B	WTU-6B	WTU-7B	WTU-8B	WTU-1C	WTU-2C	WTU-3C	WTU-4C	WTU-5C	WTU-6C	WTU-7C	WTU-8C
SERV	'ES	WEST BUNKHOUSE	WEST BUNKHOUSE	E WEST BUNKHOUSE	EAST BUNKHOUSE	EAST BUNKHOUSE	E EAST BUNKHOUSE	EAST BUNKHOUSE	E EAST BUNKHOUSE	EAST BUNKHOUSE	EAST BUNKHOUS	E EAST BUNKHOUS					
OUTS	SIDE AIR CFM	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
TONN	NAGE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
VOLT	S/PH	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1
MOC	P (A)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	CAPACITY (MBH)	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
9	AMPS	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
DATA	WATTS	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
<u>ვ</u> _	CFM	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265
NG A	CAPACITY (MBH)	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
HEATING DATA	AMPS	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
	KW	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
FILTER	TYPE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE
MANU	JFACTURER	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA
MODEL	_ NO.	PBE123G35CB	PBE123G35CB	PBE123G35CB	PBE123G35CB	PBE123G35CB	PBE123G35CB	PBE123G35CB	PBE123G35CB	PBE123G35CB	PBE123G35CB	PBE123G35CB	PBE123G35CB	PBE123G35CB	PBE123G35CB	PBE123G35CB	PBE123G35CB
WEIGHT	Г (LB)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

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

		•	C	EILII	VG	VEN	TILATI	ON FA	NS S	СН	EDI	JLE				
					FAI	N DATA		E	ELECTRICAL MO	OTOR DA	ГА					
MARK	LOCATION	CFM	SOUND @ MAX. SPEED	# BLADES	RPM	DRIVE	# OF SPEED	VOLT/PH/HZ	WATTS MIN/MAX	FLA (A) MIN. (A)	FLA (A) MAX. (A)	STARTER	DIAMETER (IN)	WEIGHT (LB)	MANUFACTURER/MODEL NO.	REMARKS/NOTES
CVF-1A THRU CVF-6A	MAIN BUILDING INDOOR	5,165	≤35 dBA	(5)	164	DIRECT	3	120/1/60	9.46/66.58		0.55	4	52	19.05	HAMPTON BAY /YG529-NI	123571112 13141524262728
CVF-7A THRU CVF-10A	MAIN BUILDING OUTDOOR (WET RATED)	5,165	≤35 dBA	(5)	164	DIRECT	3	120/1/60	9.46/66.58	0.22	0.55	4	52	19.05		123571112 13141524262728
CVF-1B THRU CVF-8B	WEST BUNKHOUSE	2,821	≤35 dBA	(5)	180	DIRECT	3	120/1/60	11/50	0.20	0.44	4	44	19.62	HAMPTON BAY /52644	1 2 3 5 6 7 10 11 12 13 15 16 21 22 24 25
CVF-1C THRU CVF-8C	EAST BUNKHOUSE	2,821	≤35 dBA	(5)	180	DIRECT	3	120/1/60	11/50	0.20	0.44	4	44	19.62	HAMPTON BAY /52644	1 2 3 5 6 7 10 11 12 13 15 16 21 22 24 25

1) MOUNTING ACCESSORIES SHALL BE PER MANUFACTURER

(2) INTEGRAL DISCONNECT.

RECOMMENDATIONS.

(9) BIRD SCREEN.

(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.

(10) FROSTED GLASS STYLE AND BRONZE HOUSING.

(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.

(11) LIFE TIME FACTORY WARRANTY.

(12) SPEED CONTROLLER

(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

			Kľ	TCHE	EN F	10 	OD	SC	HED	ULE	1					
DESIGNATION	MANUFACTURER/	LENGTH	MAX. COOKING	TOTAL EXH.			ELECTRI			FILTERS		LIGH	TS	HOOD CONSTRUCTION	WEIGHT	NOTES &
DESIGNATION	MODEL #	(IN)	TEMP.	(CFM)	QUANTITY	SIZE	VOLT/PH	FULL AMP.	TYPE	QUANTITY	DIMENSIONS HxL (IN.)	QUANTITY	TYPE	HOOD CONSTRUCTION	(LB)	ACCESSORIES
HD-1	GREENHECK/ GRRS-36-R-E-N	36	450 Deg.	500	1	1	120	15	STAINLESS STEEL BAFFLES	I	-	1	INCANDESCENT 60W A19 (SHATTER PROOF)	430 SS GAUGE 18	100	ALL

(13) ACCESSORIES AND INSTALLATION SHALL BE PER MANUFACTURER RECOMMENDATIONS.

(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

DESIGNATION	EF-1C, 2C, 3C & 4C	
SERVING	TOILETS/JANITOR CLOSETS EAST & WEST BUNKHOUSES	TOILETS/JANITOR CLOSETS GATHERING BUILDING
CFM	110	110
DUCT SIZE (IN)	4	4
S.P. ("W.G.)	0.20	0.20
ELEC. (VOLTS/AMPS/WATTS)	120V / 0.3 A /23.4	120V / 0.3 A /23.4
HP	_	_
MANUFACTURER	BROAN	BROAN
SONES	1.0	1.0
DIMENSIONS LxWxH (IN)	9.25X10X5.75	9.25X10X5.75
MODEL	AE110K	AE110K
REMARKS & ACCESSORIES	UL LISTED CEILING MOUNTED BACK DRAFT DAMPER BIRD SCREEN	UL LISTED CEILING MOUNTED BACK DRAFT DAMPER BIRD SCREEN
	DISCONNECT & INTEGRAL EXHAUST GRILLE TERMINATE WITH WALL CAP	DISCONNECT & INTEGRAL EXHAUST GRILLE TERMINATE WITH WALL CAP

VING	TOILETS/JANITOR CLOSETS EAST & WEST BUNKHOUSES	TOILETS/JANITOR CLOSETS GATHERING BUILDING
	110	110
T SIZE (IN)	4	4
("W.G.)	0.20	0.20
C. (VOLTS/AMPS/WATTS)	120V / 0.3 A /23.4	120V / 0.3 A /23.4
	_	_
UFACTURER	BROAN	BROAN
ES	1.0	1.0
ENSIONS LxWxH (IN)	9.25X10X5.75	9.25X10X5.75
EL	AE110K	AE110K
ARKS &	UL LISTED	UL LISTED
ESSORIES	CEILING MOUNTED	CEILING MOUNTED
	BACK DRAFT DAMPER BIRD SCREEN	BACK DRAFT DAMPER BIRD SCREEN
	DISCONNECT & INTEGRAL EXHAUST GRILLE	DISCONNECT & INTEGRAL EXHAUST GRILLE
	TERMINATE WITH WALL CAP INTERLOCK WITH LIGHT	TERMINATE WITH WALL CAP INTERLOCK WITH LIGHT

EF-1C, 2C, 3C & 4C

	110	110
E (IN)	4	4
G.)	0.20	0.20
LTS/AMPS/WATTS)	120V / 0.3 A /23.4	120V / 0.3 A /23.4
	_	_
URER	BROAN	BROAN
	1.0	1.0

OVERRIDE

AND PROVIDE WALL SWITCH AND PROVIDE WALL SWITCH

7 PROVIDE ANTI-SHORT CYCLING TIMER.

8 PROVIDE DISCONNECT SWITCH.

⁵ PROVIDE WITH HAIL GUARD.

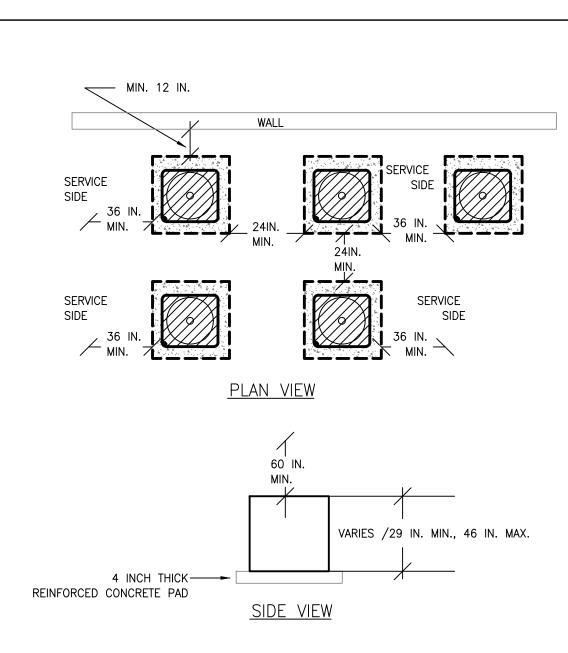
CONDENSING UNIT NOTES

1 PROVIDE 4" HOUSEKEEPING PADS.

TO MANUFACTURER'S RECOMMENDATIONS.

3 PROVIDE HIGH AND LOW PRESSURE SAFETIES.

4 PROVIDE LOW AMBIENT CAPABILITY TO 30°F.



*DBR DBR Project Number ST MD BL MR



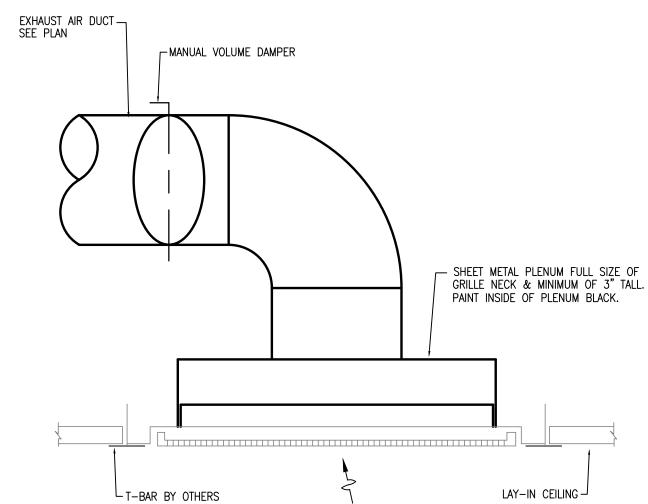
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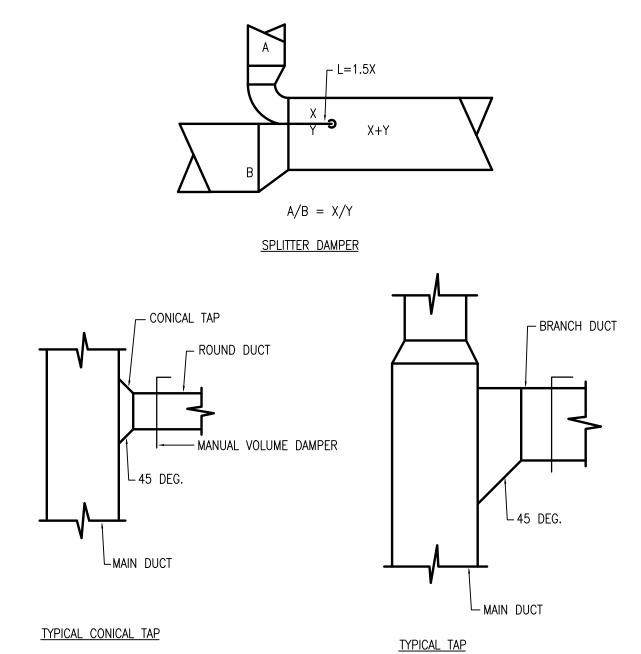
ENGELING ING LODGE & BUNK

GUS EI GATHERIN

03 CONDENSING UNIT CLEARANCE



05 EXHAUST AIR GRILLE DUCT CONNECTION



mwm **Design** Group

04/03/2024 DESIGNED BY: DRAWN BY: REVIEWED BY:

SHEET TITLE

SHEET NUMBER M8.01

08 LOW PRESSURE DUCT DETAILS

No Scale

06 EXHAUST FAN WITH INTEGRAL GRILLE DETAIL

No Scale

07 CONDENSATE DRAIN TRAP DETAIL

MECHANICAL

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

MIN. OF 4-5/16" ALL THREAD —

STEEL HANGER RODS, SECURE FROM STRUCTURE WITH DOUBLE

ACCOUSTICALLY INSULATED.

PLAN VIEW

ELEVATION VIEW

PRESSURE GAUGE-

POWER SWITCH-

DOUBLE NUTS - (TYPICAL)

05 CEILING EXHAUST FAN

CEILING -

REMOVABLE FACE GRILLE, BY FAN

MANUFACTURER

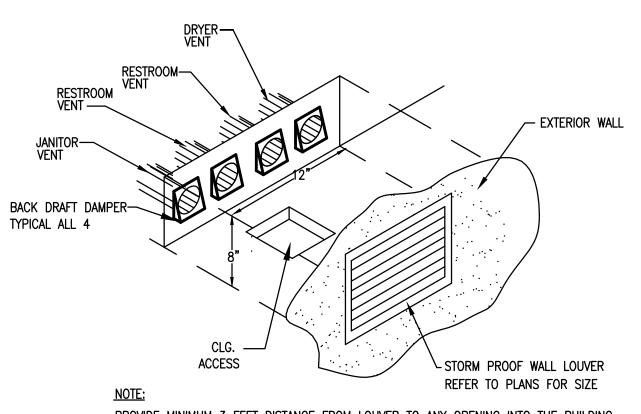
PULL STATION PASS-THOUGH

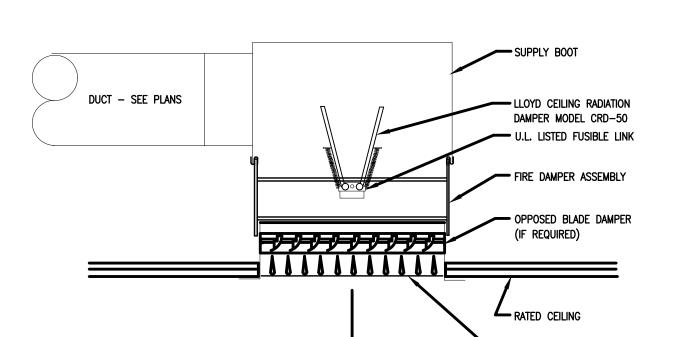
SCHEMATIC SUPPLY AIR DEVICES DETAIL

02 RADIATION DAMPER @ FAN/COIL DETAIL

1. SUPPORT, WALL OPENING DIMENSIONS, WALL SLEEVE, CONDENSATE DRAIN KIT

2. PROVIDE INSULATION AND CAULK AROUND SLEEVE FOR THERMAL AND WEATHER TIGHT INSTALLATION.





CEILING DIFFUSER (0.025 STEEL MIN.)

03 CEILING RADIATION DAMPER DETAIL

-SIZE PER MANUFACTURER

— SEAL W/ APPROVED FIRE STOP COMPOUND—

RATED CEILING

WALL VENT CAP ---WITH BACKDRAFT DAMPER

EXTERIOR WALL-

— "THE-DRYER- BOX " MODEL 425 RECCESSED DRYER

RECOMMENDATIONS



EXHAUST VENT

— ALUMINUM WALL CAP WITH INTEGRAL BACKDRAFT DAMPER.

WALL CAP DETAIL

PER MANUFACTURER

RECOMMENDED SIZE



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WMA BUNKHOUSES SNGELING ING LODGE & BUNKI GUS E GATHERIN

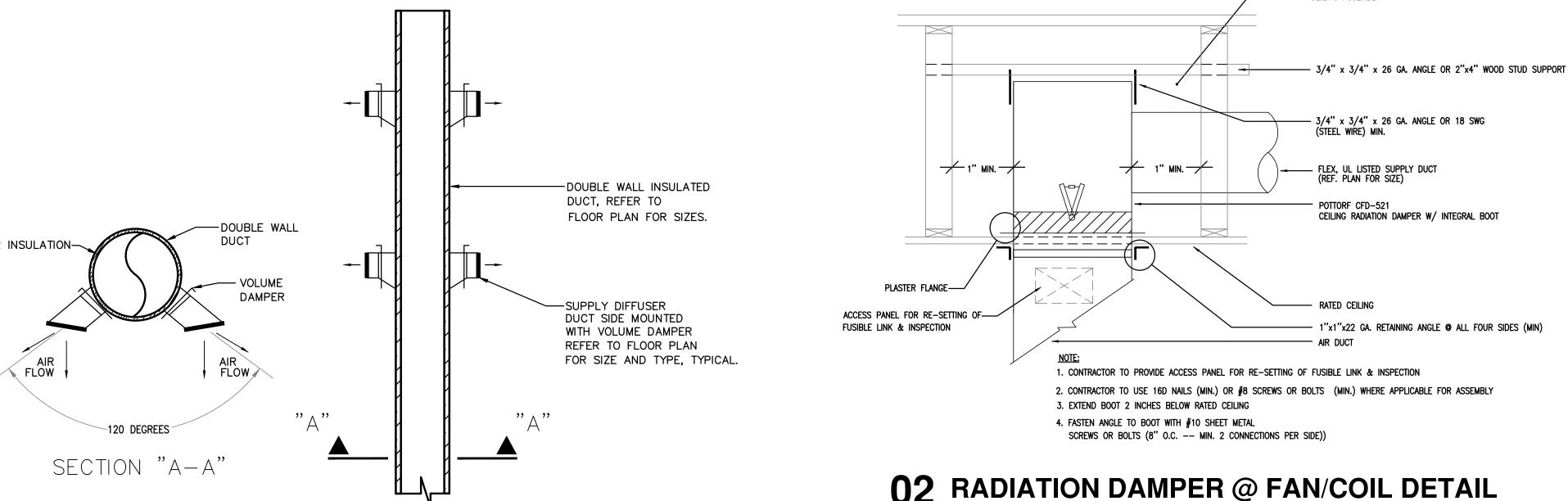
DESIGNED BY: DRAWN BY: REVIEWED BY:

> SHEET TITLE MECHANICAL

SHEET NUMBER M8.02

Design Group

mwm



- ROUND DUCT,

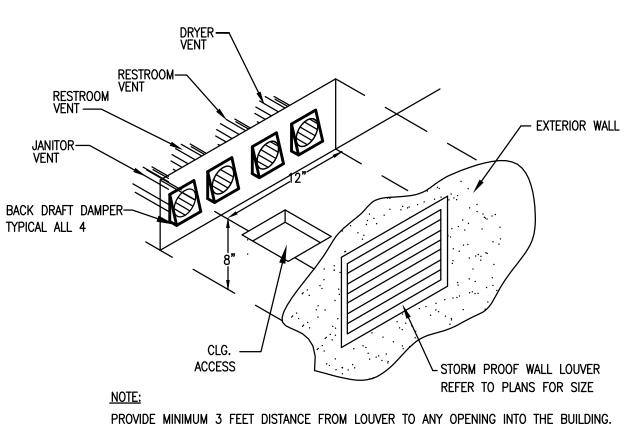
SEE PLANS

(TYPICAL OF 4)

- CEILING, REF: ARCH. DWGS.

► REFER TO ARCHITECTURAL DRAWINGS FOR EXTERIOR WALL DETAILS MANUFACTURER SUPPLIED WALL SLEEVE (WALL THRU UNIT) EXTERNAL CONDENSATE DRAIN, MIN. 5" ABOVE INSTALL PER MANUFACTURER'S FACTORY FURNISHED CORD & PLUG MANUFACTURER'S — STANDARD SUBBASE WITH DISCONNECT. -OUTSIDE WALL INSIDE WAL

04 PTAC (WALL THRU PACKAGED UNIT)



NFPA 96 (BY GENERAL

-WALL CAP WITH BIRD SCREEN AND BACKDRAFT DAMPER

CONTRACTÒR)

3" AIR SPACE

SECTION VIEW

07 EXHAUST VENTING BOX DETAILS

06 DRYER VENT DETAILS

A PROVIDE BLOCKING / REINFORCEMENT PER MANUFACTURER'S INSTALLATION RECOMMENDATIONS ——INSTALL AS HIGH AS PERMISSIBLE ON WALL—

UL FIRE PROTECTION SYSTEM NO. F-C-7001

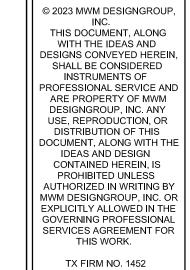
(B) FLEX DUCT WITH DRAW BAND @ EACH END.

26 GAUGE MINIMUM—— ALUMINUM DRYER

08 KITCHEN HOOD INSTALLATION DETAILS







04/03/24

BUNKHOUSES

SNGELING
NG LODGE & BUNK

GUS EJ GATHERIN

1211534

NOTE: REFERENCE NUMBER INSIDE HEXAGON

2. NEW 120/208V, 3PH 400A MCB 84 POLE PANELBOARD. REFER TO SCHEDULE. COORDINATE LOCATION WITH ALL

3. INDOOR A/C UNIT RECEIVES POWER FROM OUTDOOR CONDENSING UNIT.

4. INTERFACE KITCHEN HOOD WITH FIRE SUPPRESSION SYSTEM.

5. ALL 20A/1P RECEPTACLES IN KITCHEN AREA SHALL BE GFI PROTECTED. PROVIDE GFI RECEPTACLE OR REMOTE MODULE

10. 24" X 24" X 36"D QUAZITE BOX WITH 2" CONDUIT ROUTED INTO BUILDING AND STUBBED UP ADJACENT TO PLYWOOD

KEY NOTES

APPROVED METHODS

GENERAL NOTES

WIRING DEVICES.

A. REFER TO ARCHITECTURAL PLANS, ELEVATIONS AND

B. COORDINATE WITH MECHANICAL CONTRACTOR FOR

EXACT LOCATION OF MECHANICAL EQUIPMENT.

LOCATION AND QUANTITY OF DAMPERS.

ABOVE AN INACCESSIBLE CEILING.

DETAILS FOR EXACT LOCATION AND QUANTITES OF ALL

C. PROVIDE 120V POWER TO MOTORIZED DAMPERS IN THIS AREA. REFER TO MECHANICAL DRAWING FOR EXACT

D. THE FIRE ALARM SYSTEM IS A PERFORMANCE BASED SPECIFICATION. PROVIDE DEVICES REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM PER MANUFACTURES RECOMMENDATIONS AND NFPA

E. PROVIDE ACCESS PANELS FOR ALL JBOXES LOCATED

RECEPTACLE FOR WATER HEATER CONTROLS.

TRADES PRIOR TO INSTALLATION.

COORDINATE REQUIREMENTS WITH VENDOR.

6. INTERFACE OVEN WITH KITCHEN HOOD & FIRE SUPPRESSION TO SHUT DOWN INCASE OF FIRE.

7. PROVIDE DRYER MATCHING RECEPTACLES.

8. PROVIDE 4'X8'X3/4" FIRE RATED PLYWOOD BACKBOARD. RATING EXPOSED IN AT LEAST ONE LOCATION.

9. DISCONNECT MOUNTED ON UNISTRUT RACK.

BACKBOARD. PROVIDE EMBOSSED LID ON BOX WITH TEXT "DATA"

04/03/2024 DESIGNED BY: DRAWN BY: REVIEWED BY:

> SHEET TITLE FLOOR PLAN POWER

SHEET NUMBER

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

LA-20

/ ICE MAKER

WH 4.5KW

Ф_{GEI} DW D GFI Ф_{GEI} Ф_{GEI}

- OVEN LA-10/12 50A/3P NEMA 14-50R 6

UNDERGROUND CONDUIT FOR — SERVICE TO

AND CLOCKBOX

GFI REMOTE

GFI REMOTE

FIRE ALARM CONTROL

mwm **Design** Group





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04/03/24

ING WMA

R & BUNKHOUSES

GUS ENGELING V GATHERING LODGE & BUNKP PROJECT NUMBER: 121

NUMBER: 1211534

AREA. REFER TO MECHANICAL DRAWING FOR EXACT LOCATION AND QUANTITY OF DAMPERS. CONNECT TO CIRCUITS LB-36 & LC-36..

MANUFACTURES RECOMMENDATIONS AND NFPA APPROVED METHODS

COVERAGE. PROVIDE INTERCONNECT WIRING FOR SUPERVISION AND ALARM CIRCUITS. WIRE ALARM

C. PROVIDE 120V POWER TO MOTORIZED DAMPERS IN THIS

B. COORDINATE WITH MECHANICAL CONTRACTOR FOR

EXACT LOCATION OF MECHANICAL EQUIPMENT.

GENERAL NOTES

WIRING DEVICES.

A. REFER TO ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS FOR EXACT LOCATION AND QUANTITES OF ALL

- D. THE FIRE ALARM SYSTEM IS A PERFORMANCE BASED SPECIFICATION. PROVIDE DEVICES REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM PER
- 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 CIRCUITS BACK TO MAIN FACP LOCATED IN GATHERING LODGE. CIRCUIT TO LB-40 & LC-40.

(#) KEY NOTES

1. NEW 120/208V, 3PH ,225A MLO PANELBOARD REFER TO SCHEDULE.

2. COORDINATE PLUG FINAL LOCATION WITH MECHANICAL CONTRACTOR.

4. PROVIDE 4'X8'X3/4" FIRE RATED PLYWOOD BACKBOARD. PAINT WITH FIRE RESISTANT WHITE PAINT WITH PLYWOOD RATING EXPOSED IN AT

5. EXTERIOR MOUNTED ENCLOSED CIRCUIT BREAKER SERVICE DISCONNECT.

NOTE: REFERENCE NUMBER INSIDE HEXAGON

COORDINATE LOCATION WITH ALL TRADES PRIOR TO INSTALLATION.

REFER TO DETAIL 04/M8.02.

3. OUTLETS SHALL BE PASS & SEYMOUR MODEL #: TM8USBWCC6 USB TAMPER-RESISTANT RECEPTACLE

LEAST ONE LOCATON.

6. 24" X 24" X 36"D QUAZITE BOX WITH 2" CONDUIT ROUTED INTO BUILDING AND STUBBED UP ADJACENT TO PLYWOOD BACKBOARD. PROVIDE EMBOSSED LID ON BOX WITH TEXT "DATA"

04/03/2024 DESIGNED BY: DRAWN BY: REVIEWED BY:

SHEET TITLE

EAST & WEST BUNKHOUSE FLOOR PLANS

SHEET NUMBER E2.01B

mwm **Design Group**



250V,1PH

(TYPICAL)

LB-6,8

(TYPICAL)

WTU-2C

LC-5,7 250V,1PH

LC-1,3

<u>WTU-1C</u>

WTU-8B

<u>WTU-7B</u>

<u>CVF-7C</u>

(BY MC)

(TYP)

WTU-4C

LC-13,15

LC-9,11

<u>WTU-3C</u>

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

CVF-5C

<u>WTU-6C</u>

LC-6,8

(TYPICAL)

<u>WTU-7C</u>

LB-9,11

<u>WTU-3B</u>

<u>WTU-1B</u>

LC-21/23/25



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04/03/24

BUNKHOUSES

ENGELING
ING LODGE & BUNK

GUS EJ GATHERIN

04/03/2024

DESIGNED BY:

REVIEWED BY:

SHEET TITLE

MAIN BUILDING FLOOR PLAN

DRAWN BY:

NUMBER: 1211534

REVIEW AND APPROVAL. C. MOTION SENSOR SHALL BE WATTSTOPPER OR APPROVED EQUIVALENT WALL MOUNTED OR CEILING MOUNTED WITH POWER PACK AND ALL REQUIRED

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS

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

B. IN ROOMS INDICATED TO HAVE MOTION SENSORS FOR LIGHTING

GENERAL NOTES

FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.

- D. <u>WALL MOUNTED:</u> PW-301 SINGLE RELAY, PW-302 DUAL RELAY, MANUAL-ON.
- E. <u>CEILING MOUNTED:</u> CI-300, MANUAL-ON WITH POWER PACK MODEL BZ-150. PROVIDE WITH WALL MOUNTED MOMENTARY SWITCH FOR MANUAL-ON
- 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

NOTE: REFERENCE NUMBER INSIDE HEXAGON

- DUAL-TECHNOLOGY OCCUPANCY SENSOR, CONNECT TO CONTROL ZONED INTERIOR LIGHTS IN EACH RESPECTIVE SPACE.
- 3. PROVIDE (3) DUAL SLIDE WALL CONTROL DIMMABLE FAN / LIGHT CONTROLLERS WITH PRESETS. ROUTE
- 4. PROVIDE (2) DUAL SLIDE WALL CONTROL DIMMABLE FAN / LIGHT CONTROLLERS WITH PRESETS.
- MOUNT TYPE 'L' FIXTURES AT PATIO TO DIRECT LIGHT UP FOR UPLIGHTING

(#) KEY NOTES

- 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
- CIRCUITRY THRU TIMECLOCK.
- 5. CONNECT UNDER CABINET LIGHTING TO RECEPTACLE CIRCUIT LOCATED AT COUNTER BELOW.

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

+108" B

- DAYLIT ZONE

PER IECC

Daylit zone Per iecc



SHEET NUMBER E3.01A

м **Q** уз\$





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04/03/24

ING WMA

R BUNKHOUSES

SNGELING
ING LODGE & BUNK

GUS ENG GATHERING LO PROJECT I

NUMBER: 1211534

MOTION SENSOR SHALL BE WATTSTOPPER OR APPROVED EQUIVALENT WALL MOUNTED OR CEILING MOUNTED WITH POWER PACK AND ALL REQUIRED

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.

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

B. IN ROOMS INDICATED TO HAVE MOTION SENSORS FOR LIGHTING

GENERAL NOTES

REVIEW AND APPROVAL.

D. <u>WALL MOUNTED:</u> PW-301 SINGLE RELAY, PW-302 DUAL RELAY, MANUAL-ON.

CEILING MOUNTED: CI-300, MANUAL-ON WITH POWER PACK MODEL BZ-150. PROVIDE WITH WALL MOUNTED MOMENTARY SWITCH FOR MANUAL-ON OPERATION.

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

I. PROVIDE ACCESS PANELS FOR ALL JBOXES LOCATED ABOVE AN INACCESSIBLE

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.

KEY NOTES

NOTE: REFERENCE NUMBER INSIDE HEXAGON

1. DUAL-TECHNOLOGY OCCUPANCY SENSOR

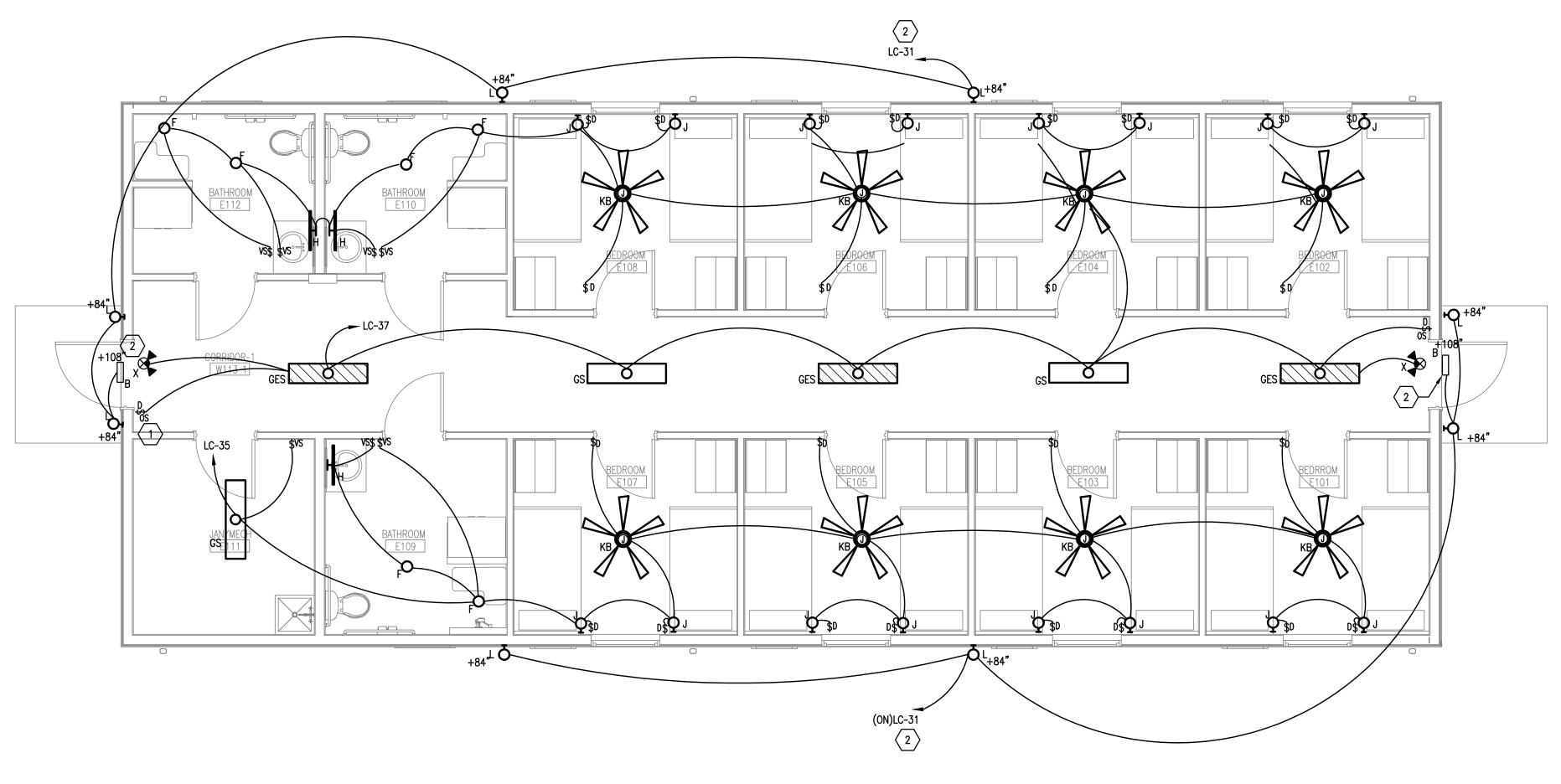
DESIGNED BY: DRAWN BY: REVIEWED BY:

SHEET TITLE

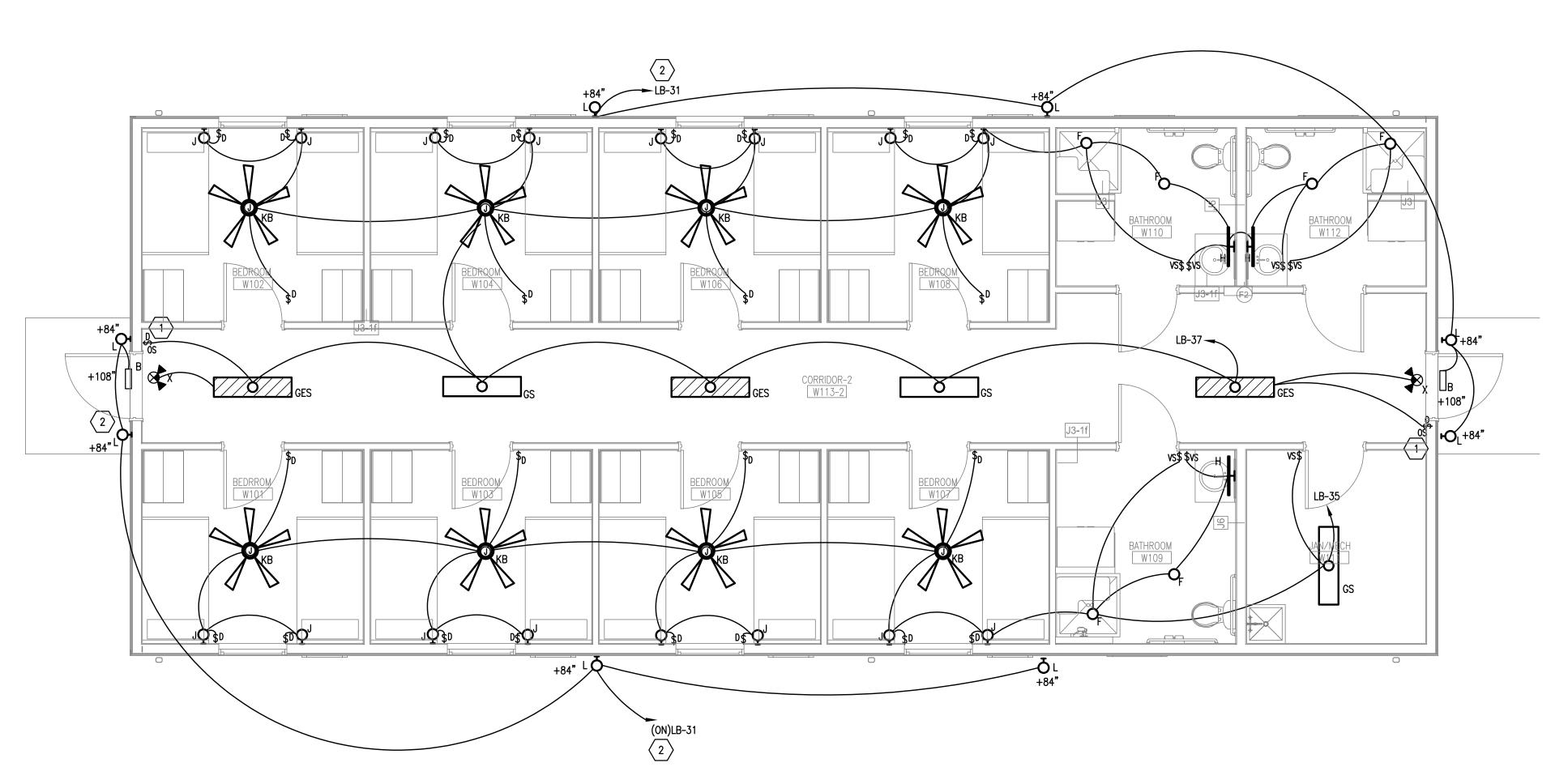
EAST & WEST BUNKHOUSE FLOOR PLANS LIGHTING

SHEET NUMBER

mwm **Design** Group



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

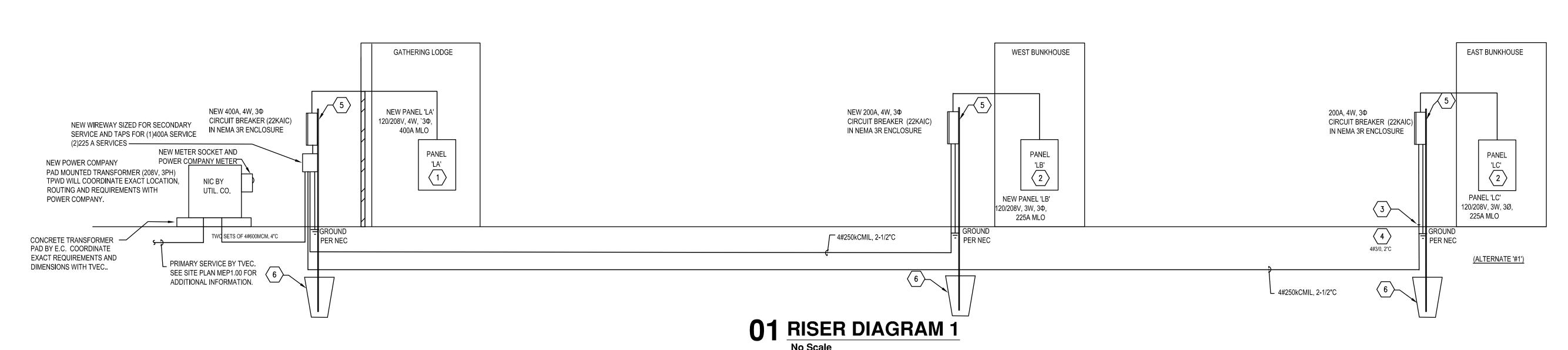


39 3#10, #10G-3/4"C 41 4 RECEPTACLES

	GATHERING LODGE PANEL 'LA' (SECTION 2)	MAIN BUS:400 MIN. INTERRU	A.M.L.O.			AIC		ENCLOSURE: NEMA-7 MOUNTING: SURFAC
POLE	DESCRIPTION	TOTAL VA	СВ	PHASE	СВ	TOTAL VA	DESCRIPTION	POLE
43	LIGHTING	564	20/1	Α	20/1	503	LIGHTING	44
45	LIGHTING	284	20/1	В	20/1	936	LIGHTING	46
47	IT CABINET	400	20/1	С	20/1		SPARE	48
49	SPARE		20/1	Α	20/1		SPARE	50
51	SPARE		20/1	В	20/1		SPARE	52
53	SPARE		20/1	С	20/1		SPARE	54
55	SPARE		20/1	Α	20/1		SPARE	56
57	SPARE		20/1	В	20/1		SPARE	58
59	SPARE		20/1	С	20/1		SPARE	60
61	SPARE		20/1	Α	20/1		SPARE	62
63	SPARE		20/1	В	20/1		SPARE	64
65	SPARE		20/1	С	20/1		SPARE	66
67	SPARE		20/1	Α	20/1		SPARE	68
69	SPARE		20/1	В	20/1		SPARE	70
71	SPARE		20/1	С	20/1		SPARE	72
73	SPARE		20/1	Α	20/1		SPARE	74
75	SPARE		20/1	В	20/1		SPARE	76
77	SPARE		20/1	С	20/1		SPARE	78
79	SPARE		20/1	Α	20/1		SPARE	80
81	SPARE		20/1	В	20/1		SPARE	82
83	SPARE		20/1	С	20/1		SPARE	84

	PANEL 'LB'	MAIN BUS: 225 MIN. INTERRU			T: 22,000	AIC	MOUNTING	: FLU
OLE	DESCRIPTION	TOTAL VA	СВ	PHASE	СВ	TOTAL VA	DESCRIPTION	
1	WTU-1B	1,450	20/2	Α	20/2	1,450	WU-5B	
3	-	1,450	1-10-1	В	12	1,450		
5	WTU-2B	1,450	20/2	С	20/2	1,450	WU-6B	
7	-	1,450	-	Α	-	1,450	-	
9	WTU-3B	1,450	20/2	В	20/2	1,450	WU-7B	
11		1,450	-	С	-	1,450	A SECTION AND A	
13	WTU-4B	1,450	20/2	Α	20/2	1,450	WU-8B	
15	-	1,450	100	В	4	1,450		
17	CU-1B	1,248	20/2	С	50/2	4,888	FCU-1B	
19	-	1,248	-	Α	- 1	4,888	2#6, 1#10G, 3/4"C	
21	WATER HEATER	3,000	40/3	В	20/1	1,100	5 RECEPTACLES, 2EF	
23	3#8, #10G-1"C.	3,000		С	20/1	1,260	7 RECEPTACLES	
25		3,000		Α	20/1	720	4 RECEPTACLES	
27	IT CABINET	400	20/1	В	20/1	720	PLOT	
29	SPARE		20/1	С	20/1	720	4 RECEPTACLES	
31	LIGHTING	260	20/1	Α	20/1	720	4 RECEPTACLES	
33	SPARE		20/1	В	20/1	180	FACP	
35	LIGHTING	820	20/1	С	20/1	720	2 RECEPTACLES, 2 EF	
37	LIGHTING	640	20/1	Α	20/1	360	MECHRM	
39	SPARE		20/1	В	20/1		SPARE	
41	SPARE		20/1	С	20/1		SPARE	

	PANEL 'LC' (ALTERNATE #1)	MAIN BUS: 225 MIN. INTERRU			T: 22,000	AIC	MOUNTING	6: FLU
POLE	DESCRIPTION	TOTAL VA	СВ	PHASE	СВ	TOTAL VA	DESCRIPTION	4
1	WU-1C	1,450	20/2	Α	20/2	1,450	WU-5C	
3	-	1,450	N=1	В	-	1,450	-	
5	WU-2C	1,450	20/2	С	20/2	1,450	WU/6C	
7	4010	1,450	-	Α	-	1,450	_	
9	WU-3C	1,450	20/2	В	20/2	1,450	WU-7C	
11	-	1,450	() 2 1	С	<u> </u>	1,450	-	
13	WU-4C	1,450	20/2	Α	20/2	1,450	WU-8C	
15	-	1,450	Y	В	1	1,450	-	
17	CU-1C	1,248	20/2	С	50/2	4,888	FCU-1C	
19	Licited at a constant	1,248	-	Α	-	4,888	2#6, 1#10G, 3/4"C	
21	WATER HEATER	3,000	40/3	В	20/1	1,100	5 RECEPTACLES, 2EF	
23	3#8, #10G-1"C.	3,000	5-3	С	20/1	1,260	7 RECEPTACLES	
25		3,000	Y=1	Α	20/1	720	4 RECEPTACLES	
27	IT CABINET	400	20/1	В	20/1	720	PLOT	
29	SPARE		20/1	С	20/1	720	4 RECEPTACLES	
31	LIGHTING	260	20/1	Α	20/1	720	4 RECEPTACLES	
33	SPARE		20/1	В	20/1	180	FACP	
35	LIGHTING	820	20/1	С	20/1	720	2 RECEPTACLES, 2 EF	
37	LIGHTING	640	20/1	Α	20/1	360	MECH RM	
39	SPARE		20/1	В	20/1		SPARE	
41	SPARE		20/1	С	20/1		SPARE	



(#) KEY NOTES

NOTE: REFERENCE NUMBER INSIDE HEXAGON

- 1. BASIS OF DESIGN: GE A-SERIES PANELBOARD.
- 2. PANELBOARD "LB" AND "LC", THE BRANCH CIRCUIT OVERRCURENT PROTECTION SHALL BE ARC FAULT CIRCUIT INTERRUPTER (AFCI) TYPE.
- 3. MTS- STATE "BASE BID INCLUDES ELECTRICAL, CABLEM INTERNET AND FIRE ALARM SERVICE RACEWAYS WITH PULL CORDS. TO THIS POINT AND CAPPING FOR FUTURE USE ON EAST BUNKHOUSE".
- 4. UNDER ALTERNATE '#1' PROVIDE SECONDARY ELECTRICAL SERVICE CONDUCTORS FROM WIREWAY TAP AT MAIN BUILDING.
- 5. UNI-STRUT FRAMING, FREE STANDING FROM BUILDING. SIZE AND
- CONFIGURE TO SUPPORT WIREWAY AND CIRCUIT BREAKERS AS INDICATED. 6. CONCRETE FOOTING SIZED TO SUPPORT UNI-STRUT STRUCTURE AND ALL EQUIPMENT.





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04/03/24

WMA BUNKHOUSES

1211534 SNGELING
ING LODGE & BUNK NUMBER: GUS EJ

04/03/2024 DESIGNED BY: DRAWN BY: REVIEWED BY:

SHEET TITLE

RISER

DIAGRAMS

DOCUMENT

ONSTRUCTION

100%

SHEET NUMBER E3.01D

ELECTRICAL SYMBOL LEGEND

SYMBOL

	POWER				
SYMBOL	DESCRIPTION	MOUNTING			
Ф	DUPLEX RECEPTACLE.	18" AFF			
ρ	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER.	8" ABV CTR			
φ ^{GFI}	GFI RECEPTACLE.	18" AFF			
P GFI	GFI RECEPTACLE MOUNTED ABOVE COUNTER.	8" ABV CTR			
Ф ^{GFI,WP}	GFI RECEPTACLE. 'WP' INDICATES WEATHERPROOF COVER.	18" AFF			
φ	SPECIAL PURPOSE RECEPTACLE.	18" AFF			
0	MOTOR.	AS REQ'D			
(JUNCTION BOX, CEILING MOUNTED.	CEILING			
Ф	JUNCTION BOX, WALL MOUNTED.	AS REQ'D			
TT	GROUND BAR.	AS REQ'D			

	DISCONNECTING MEANS/CONTROL	_S				
SYMBOL	IBOL DESCRIPTION					
\$	SINGLE POLE SWITCH.	48" AFF				
\$3	THREE WAY SWITCH.	48" AFF				
\$ ⁴	FOUR WAY SWITCH.	48" AFF				
\$D	DIMMER SWITCH. 1500 WATTS UNLESS NOTED OTHERWISE.	48" AFF				
\$ ^{LV}	LOW VOLTAGE CONTROL SWITCH (# DESIGNATES ZONE)	48" AFF				
\$ ^T	SINGLE POLE TIMER SWITCH.	48" AFF				
\$ ^{0S}	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR/SWITCH.	48" AFF				
<u>(65)</u>	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.	CEILING				
(PC)	DAY LIGHT ZONE PHOTOCELL - CEILING MOUNTED.	AS REQ'D				
	LIGHTING AND APPLIANCE PANELBOARD.	AS REQ'D				
PP	LINE-VOLTAGE POWER PACK FOR LOW VOLTAGE LIGHTING CONTROLS. PROVIDE WITH DIMMING CAPABILITY.					
PB	DOOR PUSH BUTTON. SEE NOTE #6.	48" AFF				
DA	VISUAL ALARM, DOOR BELL AT HEARING IMPAIRED ROOM. SEE NOTE #6.	6" BELOW CEILING				

GENERAL NOTES

- A. INSTALL LIGHT SWITCHES 48" ABOVE FINISHED FLOOR TO CENTER OF DEVICE, UNLESS NOTES OTHERWISE.
- B. INSTALL RECEPTACLES 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICES, UNLESS NOTES OTHERWISE.
- C. INSTALL RECEPTACLES ABOVE COUNTER 6" ABOVE BACKSPLASH TO CENTER OF DEVICE.
- D. RECEPTACLES WITHIN 6' OF SINK SHALL BE GFI TYPE. RECEPTACLES SERVING VENDING MACHINES, WITHIN KITCHENS AND EXTERIOR LOCATIONS SHALL BE GFI TYPE.
- E. INSTALL RECEPTACLES WITH GROUND PIN MOUNTED UP.
- F. BOND TOGETHER EQUIPMENT GROUND BARS OF NORMAL AND ESSENTIAL ELECTRICAL SYSTEM PANELBOARDS SERVING THE SAME PATIENT VICINITY WITH #10 AWG INSULATED CONTINUOUS COPPER CONDUCTOR.
- G. EQUIPMENT SHALL BE RATED SUITABLE FOR INSTALLED ENVIRONMENT.
- H. INSTALL BOXES WITHIN FIRE RATED WALLS AND ASSEMBLIES TO MAINTAIN FIRE RATING.
- PROVIDE TYPEWRITTEN DIRECTORIES FOR NEW AND EXISTING PANELS AFFECTED BY THIS PROJECT. REVISE ROOM NAMES AND NUMBERS CONTAINED ON THE CONSTRUCTION DOCUMENT PANEL DIRECTORIES TO MATCH ACTUAL ROOM NAMES AND NUMBERS.

	LIGHTING					
SYMBOL	SYMBOL DESCRIPTION					
•	LIGHT FIXTURE - NORMAL POWER.	CEILING				
A,a,6	NOTE: TEXT DENOTES ASSOCIATED 'FIXTURE TYPE'(A), 'SWITCH LEG'(a),' TYPICAL FOR ANY LIGHT FIXTURE.					
	LIGHT FIXTURE - EMERGENCY BATTERY POWER.	CEILING				
0	DOWNLIGHT FIXTURE.	CEILING				
\$	WALL WASHER FIXTURE.	CEILING				
Q	WALL MOUNTED LIGHT FIXTURE.	AS REQ'D				
⊗	EXIT LIGHT FIXTURE WITH DIRECTION CHEVRONS AS SHOWN. SHADED QUADRANT(S) INDICATE FACE(S) OF FIXTURE.	CEILING				
፟	EXIT LIGHT FIXTURE, WALL MOUNTED.	AS REQ'D				

TELECOMMUNICATIONS

DESCRIPTION

TELEVISION/DATA SIGNAL OUTLET - NOTE 1.

TELEVISION SIGNAL OUTLET - NOTE 1.

TYPE

GE

MOUNTING

72" AFF

18" AFF

DESCRIPTION

6" COMMERCIAL GRADE LED DOWNLIGHT, 120, 0-10V DIMMING

WALL MOUNTED EXTERIOR EGRESS EMERGENCY LED FIXTURE.

NORMALLY ON, 6-12V DC EMERGENCY UNIT, FULL CUTOFF SHIELD.

LITHONIA #LDN6-35/20 LO6-BR-120-SCA6

LITHONIA #LIL LED-35K-MVOLT-BB-DDBTXD

7" WET LOCATION LISTED LED SHOWER LIGHT,

3500K,642 LUMENS, SURFACE MOUNT, DIMMING DRIVER

1'x4' RECESSED LED FIXTURE, #12 PATTERN .125" ACRYLIC LENS, 3500K COLOR TEMPERATURE, FLUSH ALUMINUM WHITE DOOR,

SAME AS TYPE 'G' EXCEPT WITH 90 MINUTE BATTERY PACK.

1'x4' WRAPAROUND SURFACE MOUNTED LED FIXTURE, 3000L,

SAME AS TYPE 'G' EXCEPT WITH 90 MINUTE BATTERY PACK.

LED RESTROOM VANITY FIXTURE. FROSTED WHITE ACRYLIC,

LED BEDROOM WALL SCONCE, 790 LUMENS, 90 CRI, DIE-CAST

52" CEILING INDOOR / OUDOOR NATURAL IRON CEILING FAN WITH RALEIGH LED NATURAL IRON LIGHT KIT- MAIN BUILDING -

REVERSIBLE BLADES, SLOPED CEILING ADAPTOR, DUAL FAN /

44" INDOOR MEDITERRANEAN BRONZE CEILING FAN WITH LED LIGHT KIT- BUNKHOUSES - BRONZE FINISH, REVERSIBLE

ALUMINUM HOUSING, BLACK FINISH, DIMMING, 10W,

LIGHT WALL MOUNTED CONTROLLER WITH PRESETS

EXTERIOR BLADES, DUAL FAN / LIGHT WALL MOUNTED

EXTRIOR LED WALL SCONCE, 1P65 RATED, ALUMINUM

WACLIGHTING #WS-W2605-33"-120V-16W-800L-AL

SENSOR, 7" WIDTH, 85 CRI, 3500K, PIR

LITHONIA #FMMCL-7-835-PIR

WITH PHOTOCELL CONTROL

2000 LUMENS, 80 CRI,

UC1

UC2

UC4

PORTFOLIO #EC48-1020-80-3500K

BATTERY BACKUP, DARK BRONZE

LITHONIA #UCEL-12IN-35K-90CRI-SWR-WH

LITHONIA #UCEL-24IN-35K-90CRI-SWR-WH

LITHONIA #UCEL-48IN-35K-90CRI-SWR-WH

LITHONIA #ECC-GM6

OR APPROVED EQUAL

WACLIGHTING #FM-W2612-120V-3OW

CONSTRUCTION, POWDER COAT FINISH, DIMMING, 3500K, 90

CRI, DARK SKY LISTED, PROVIDE WITH PHOTOCELL CONTROL

LED CLOSET LIGHT, FLUSH MOUNT, ACRYLIC DIFFUSER, PIR

SURFACE MTD LED CANOPY FIXTURE - 12" DIAMETER, IP65

RATED, DIE-CAST ALUMINUM, DIMMING, 3500K, 90 CRI, PROVIDE

4' LED TRACK LIGHTING KIT WITH 3 HEADS, MESH BACK TRACK,

300 LUMENS, 4.5W PER HEAD, 3500K, 80 CRI, DIMMABLE

4" ROUND LED SURFACE MOUNTED LED CYLINDER, MATTE

BLACK, MEDIUM BEAM, TWO-STAGE DIFFUSED REFLECTOR,

LED EXTERIOR FLOOD LIGHT. 6000 LUMENS, 3500K, WIDE

LITHONIA #WSTLED-P3-35K-VW-MVOLT-PE-E20WH-DDBXD

1'-0" LED UNDER CABINET LIGHT, 3500K 90 CRI, WHITE

2'-0" LED UNDER CABINET LIGHT, 3500K 90 CRI, WHITE

4'-0" LED UNDER CABINET LIGHT, 3500K 90 CRI, WHITE

DISTRIBUTION, MULTIVOLT, PHOTOCELL, 18 WATT EMERGENCY

LITHONIA #LTKMSBK-MR16GU10LED-35K-DBL

HAMPTON BAY #YG529-NI W/ #91186 LIGHT KIT.

CONTROLLER WITH PRESETS

HAMPTON BAY #52644

WAC LIGHTING SILO X10 MO-2010-930-BK

LITHONIA #LBL4-3000LM-80CRI-35K-MIN10-MVOLT-14L

3500K COLOR TEMPERATURE, FLUSH ALUMINUM WHITE DOOR,

SAME AS TYPE 'G' EXCEPT WITH GASKETED FLANGE FOR KITCHEN

OR APPROVED EQUAL

WET LOCATION LISTED.

OR APPROVED EQUAL

LITHONIA #FMML-7-835-WL-M6

MULTIVOLT, 0-10V DIMMING CAPABILITY.

LITHONIA #TL4-30L-FW-A12-EZ1-LP835-EL14L

LITHONIA #TL4-30L-FW-A12-EZ1-LP835-14L

MULTIVOLT, 0-10V DIMMING CAPABILITY.

3500K, 80 CRI, 15W, 24IN LENGTH

ASL #GUCL W15 ND 30K L24

LITHONIA #LBL4-3000LM-80CRI-35K-MIN10-MVOLT

LITHONIA #TL4-30L-FW-A12-EZ1-LP835

CAPABILITY, 50,000 HRS. MINIMUM LIFE. SLOPED CEILING ADAPTER

	MISCELLANEOUS	
SYMBOL	DESCRIPTION	MOUNTING
	CONDUIT AND HOMERUN TO PANEL: 2#12, 1#12G, 3/4"C, U.N.O.	-
	CRITICAL BRANCH CIRCUIT.	-
∠ EQ ~	EQUIPMENT BRANCH CIRCUIT.	-
LS	LIFE SAFETY BRANCH CIRCUIT.	-
/	OCCUPANCY SENSOR CONNECTION TO LIGHTING CIRCUIT	-
÷	GROUND.	-
X,X,X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS.	-
X/X/X	MULTI-POLE DEVICE CIRCUIT NUMBER.	-

	ABBREVIATIONS					
1	ABV CTR	ABOVE COUNTER				
	AFF	ABOVE FINISHED FLOOR				
	С	CONDUIT				
	СВ	CIRCUIT BREAKER				
	Е	INDICATED DEVICE ON EMERGENCY CIRCUIT				
	EX	EXISTING				
	G	GROUND				
	GFI	GROUND FAULT CIRCUIT INTERRUPTER				
	IG	ISOLATED GROUND				
	OC	ON CENTER				
	RCPT(S)	RECEPTACLE(S)				
	UNO	UNLESS NOTED OTHERWISE				
	WP	WEATHERPROOF				
	XFMR	TRANSFORMER				

ELECTRICAL SYMBOL LEGEND NOTES			
1.	PROVIDE BACKBOX, MUD RING, 3/4" CONDUIT WITH PULL STRING TO 6" ABOVE ACCESSIBLE CEILING.		
2.	BOTTOM OF PLYWOOD BOARD 12" AFF UNO.		
3.	AUDIO/VISUAL DEVICE: 80" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER PER TAS/ADA REQUIREMENTS. DIMENSION IS TO BOTTOM OF VISUAL DEVICE.		
4.	MANUAL PULL STATION: 48" AFF TO CENTER OF DEVICE.		
5.	PROVIDE 7" CLEARANCE ON EACH SIDE OF PHONE. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT REQUIREMENTS.		
6.	BED ROOM ANNUNCIATOR EDWARDS# 7005R-G5 (HORN STROBE -TRANSFORMER & PUSH BUTTON)		



VOLTAGE

120V

LAMP

3500K

LED

3500K

3500K

3500K

LED

3500K

3500K

LED

3500K

3500K

3500K

LED

3500K

LED

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3500K

3500K

LED

3500K

3500K

LED

LIGHTING FIXTURE SCHEDULE

MOUNTING

RECESSED

WALL

SURFACE

RECESSED

RECESSED

RECESSED

SURFACE

SURFACE

WALL

WALL

CEILING

CEILING

WALL

WALL

SURFACE

CEILING

SURFACE

WALL

UNDER CABINET

UNDER CABINET

UNDER CABINET

WALL

NOTES: 1. ALL LIGHTING FIXTURES SUPPLIED FOR THIS PROJECT SHOULD BE LABELED AS "BUILD AMERICA, BUY AMERICA (BABA)" ACT CERTIFIED.



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04/03/24

NG WMA BUNKHOUSES 12 SNGELING ING LODGE & BUNK NUMBER: GUS EI GATHERIN PROJE

04/03/2024 DESIGNED BY: DRAWN BY: REVIEWED BY:

> SHEET TITLE ELECTRICAL SYMBOLS & FIXTURE SCHEDULES

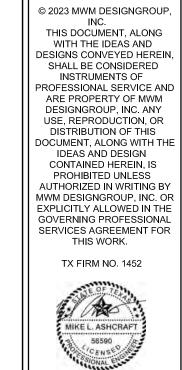


Design Group

SHEET NUMBER

100%





GUS ENGELING WMA GATHERING LODGE & BUNKHOUSES

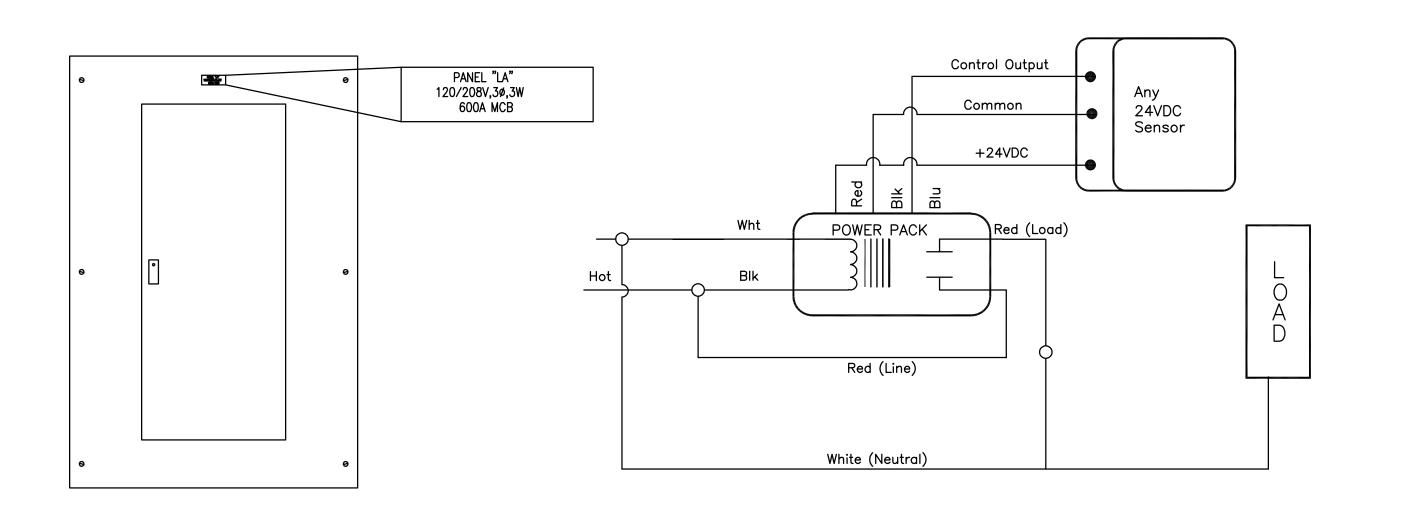
NUMBER: 1211534

DESIGNED BY: DRAWN BY: REVIEWED BY:

SHEET TITLE DETAILS

ELECTRICAL

SHEET NUMBER E8.01 60



01 PANELBOARD IDENTIFICATION

02 CEILING MOUNTED OCCUPANCY SENSOR

03 OCCUPANCY SENSOR - WALL SWITCH

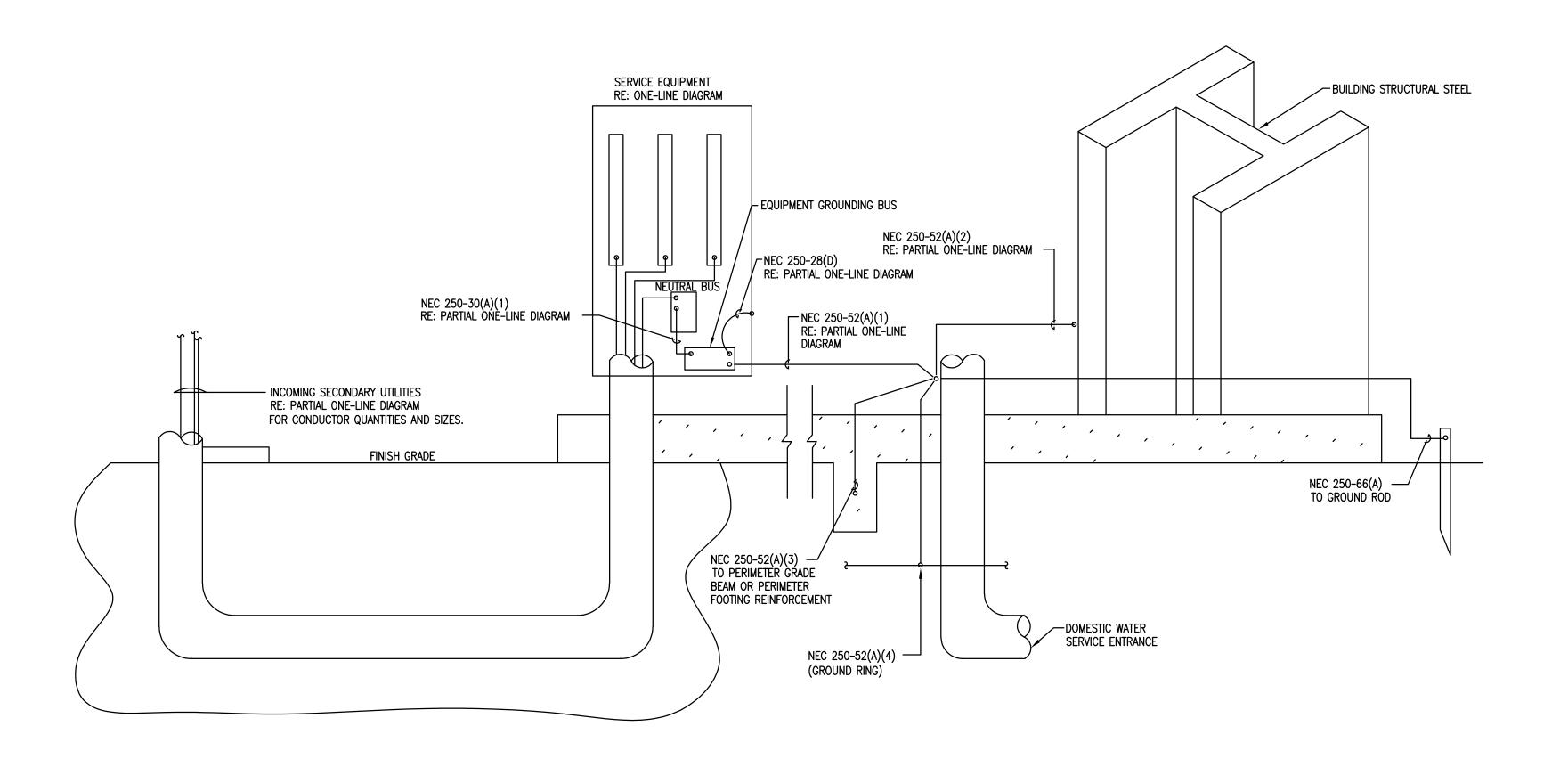
Ground

120V/277V Ground

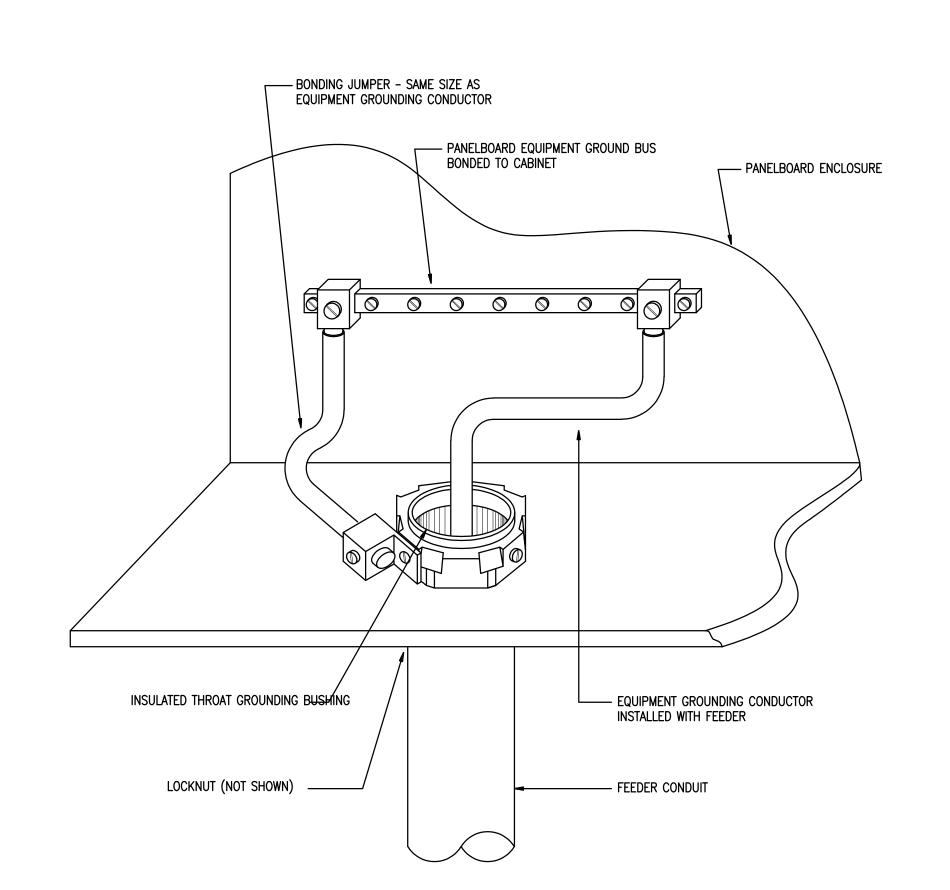
(See installation instuctions)

Wall Switch

Single Switch
For use with WI, WS and WA
series Automatic Wall Switch and TS
series Digital Time Switch.



04 ELECTRICAL SERVICE GROUNDING SCHEMATIC
No Scale

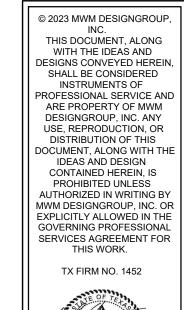


05 PANELBOARD BONDING DETAIL
No Scale

mwm **Design** Group









04/03/24

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.

AS INDICATED ON SPECIFICATIONS.

GENERAL NOTES

A. CONTRACTOR TO COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES PRIOR TO COMMENCING ANY WORK.

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

NG WMA BUNKHOUSES SNGELING NG LODGE & BUNK GUS E

04/03/2024 DESIGNED BY: DRAWN BY: REVIEWED BY:

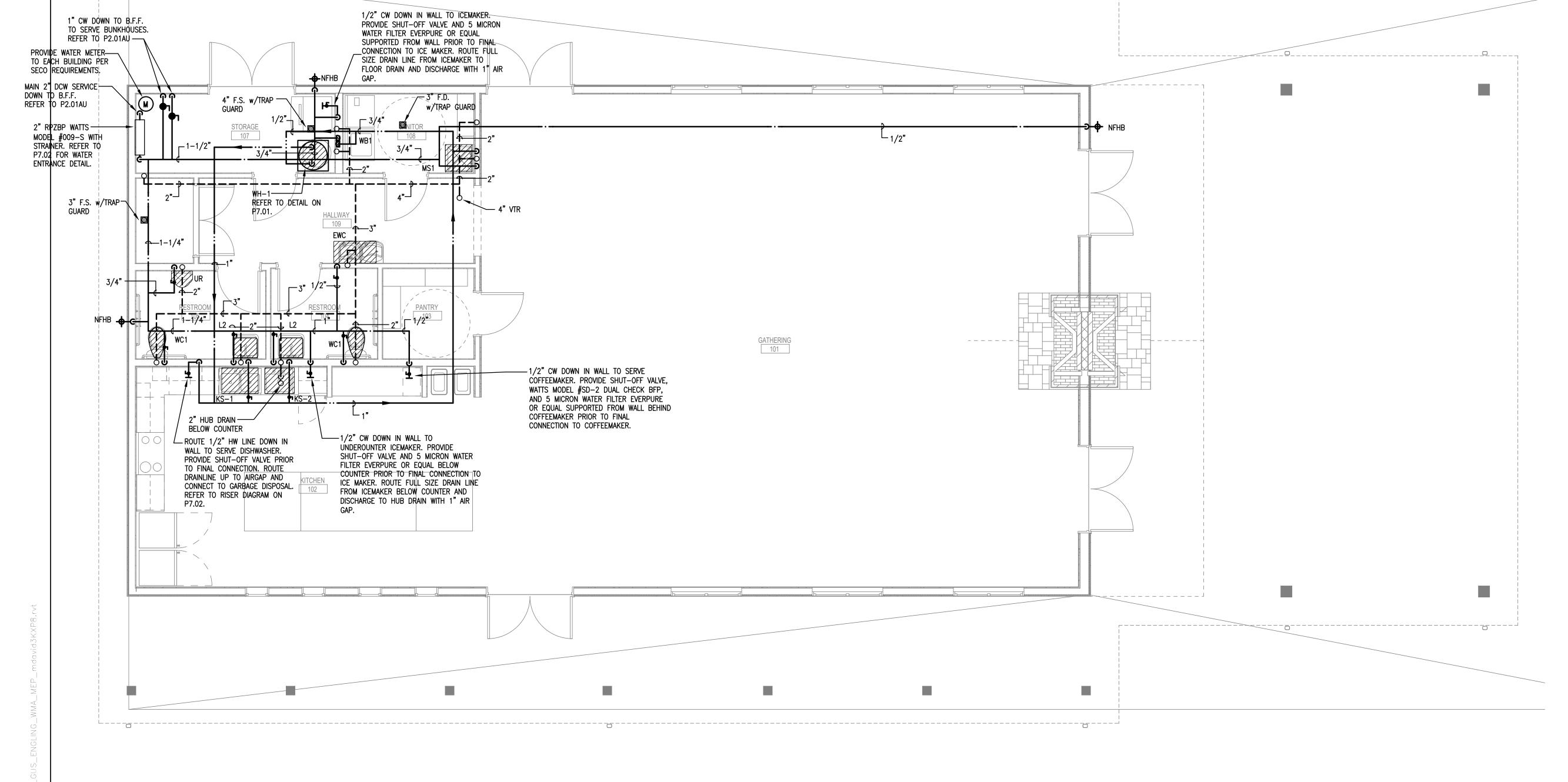
SHEET TITLE

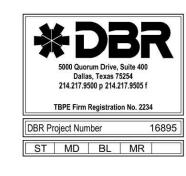
GATHERING LODGE FLOOR

PLAN PLUMBING

SHEET NUMBER P2.01A

mwm Design<mark>Group</mark>











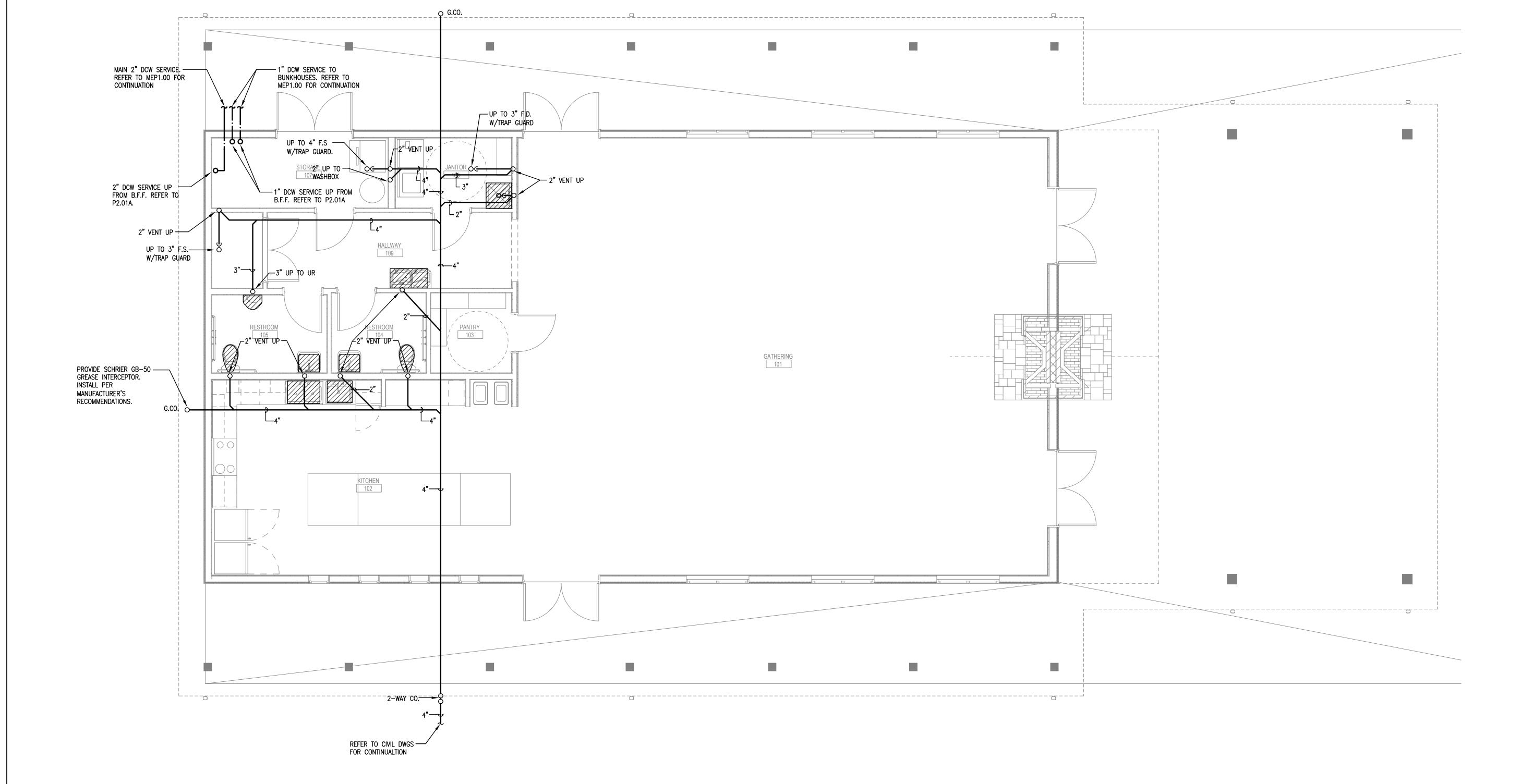
GUS ENGELING WMA GATHERING LODGE & BUNKHOUSES

DESIGNED BY: REVIEWED BY:

SHEET TITLE GATHERING LODGE FLOOR PLAN PLUMBING UNDERFLOOR

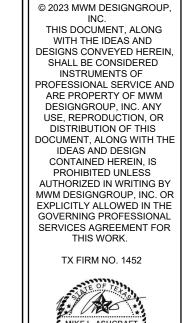
SHEET NUMBER P2.01AU

mwm
Design Group











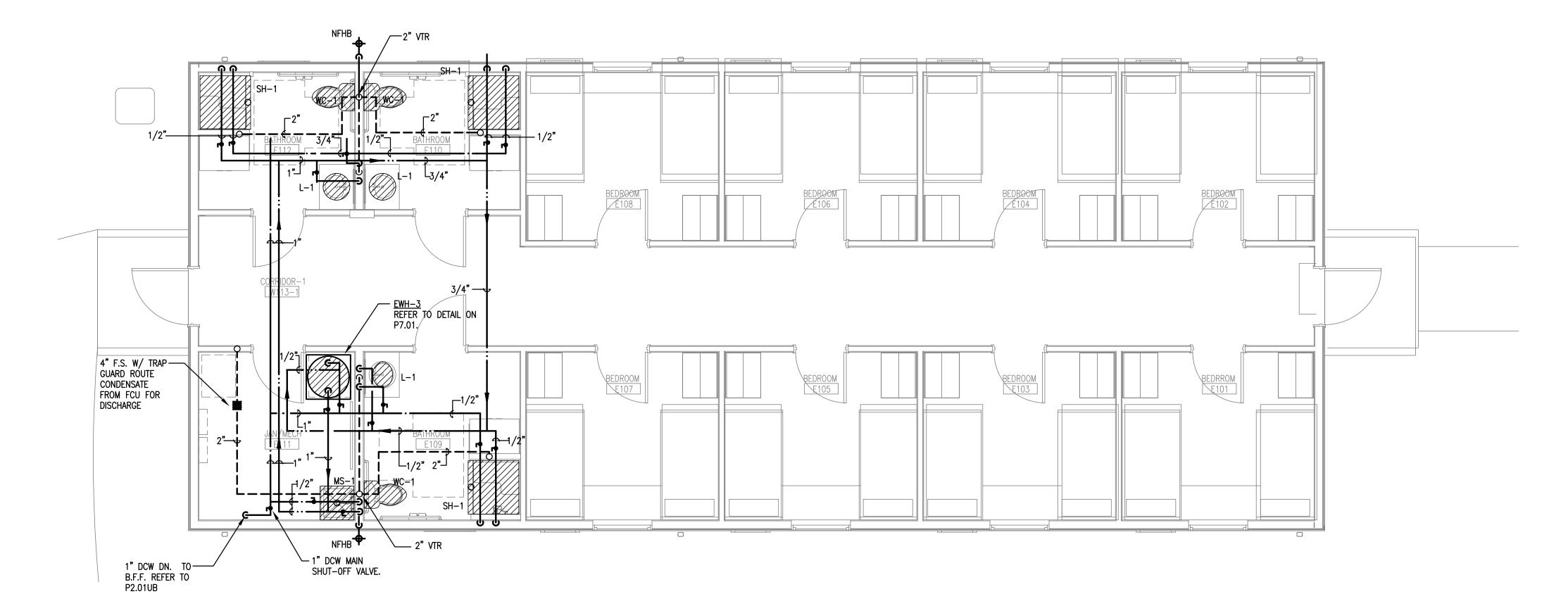
04/03/24

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.

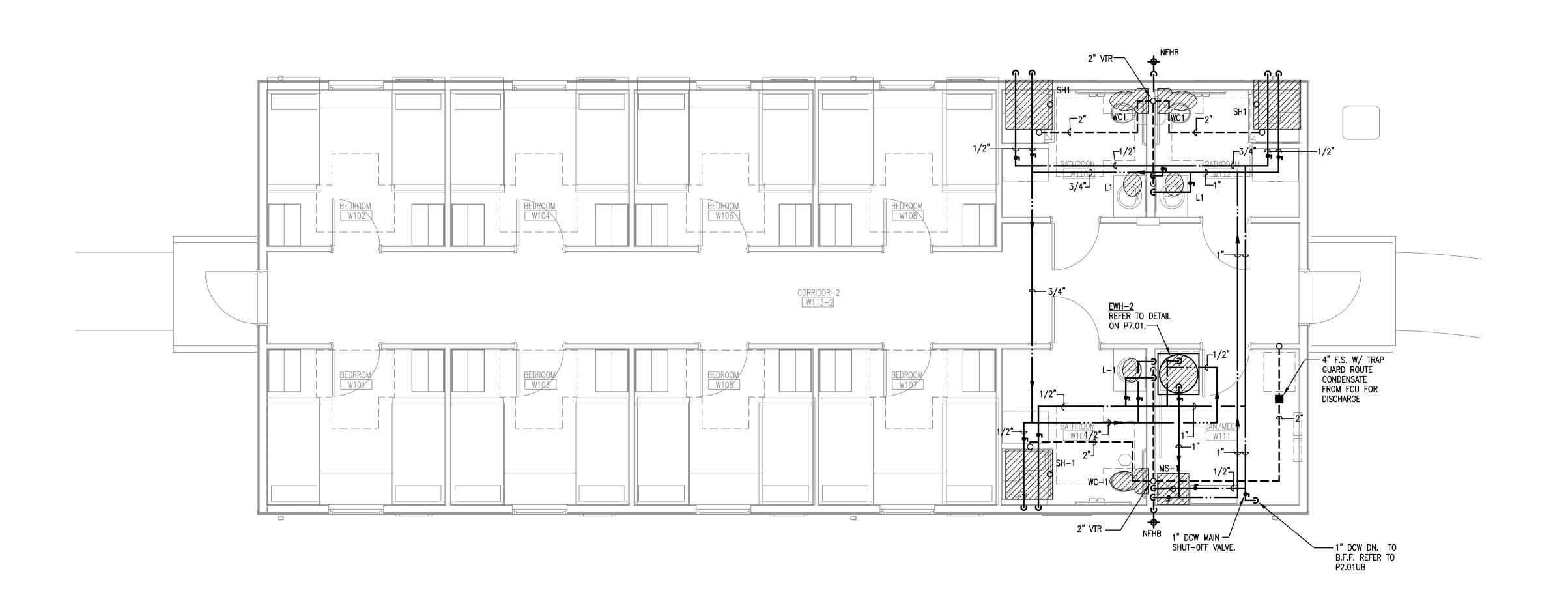
GENERAL NOTES

D. ROUTE ALL PLUMBING PIPING ABOVE CEILING IN ATTIC SPACE. COORDINATE EXACT ROUTING WITH ARCHITECTURAL PLANS AND PROVIDE INSULATION AS INDICATED ON SPECIFICATIONS.

A. REFER TO P7.02 FOR RISER DIAGRAMS, DETAILS, AND SCHEDULES.



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



GUS ENGELING WMA GATHERING LODGE & BUNKHOUSES PROJECT NUMBER: 1211534

04/03/2024 DESIGNED BY: REVIEWED BY:

SHEET TITLE

EAST & WEST BUNKHOUSE FLOOR PLANS PLUMBING

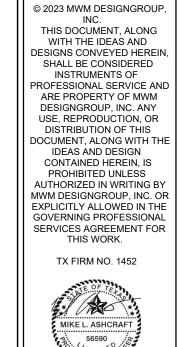
SHEET NUMBER P2.01B

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Design Group









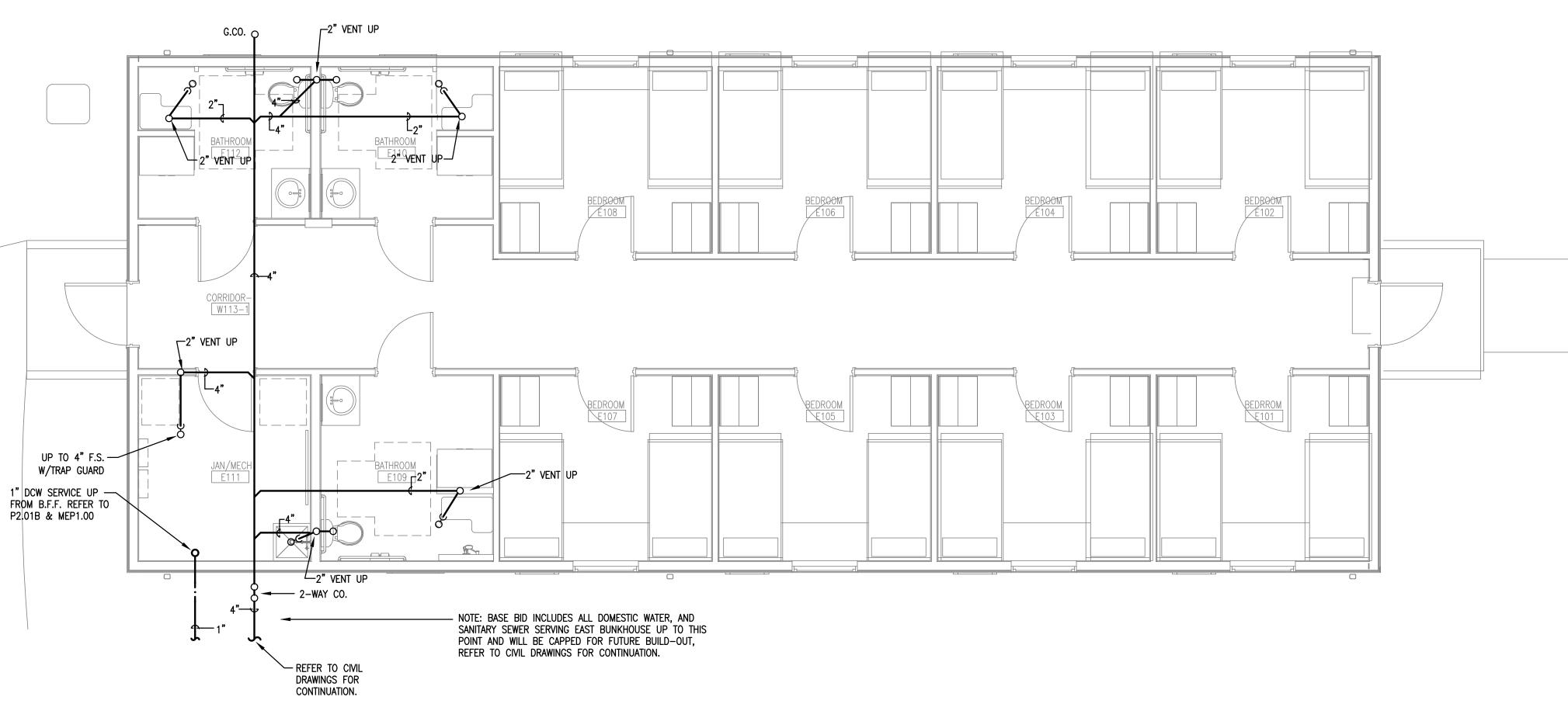
GUS ENGELING WMA GATHERING LODGE & BUNKHOUSES PROJECT NUMBER: 1211534

04/03/2024 DESIGNED BY: REVIEWED BY:

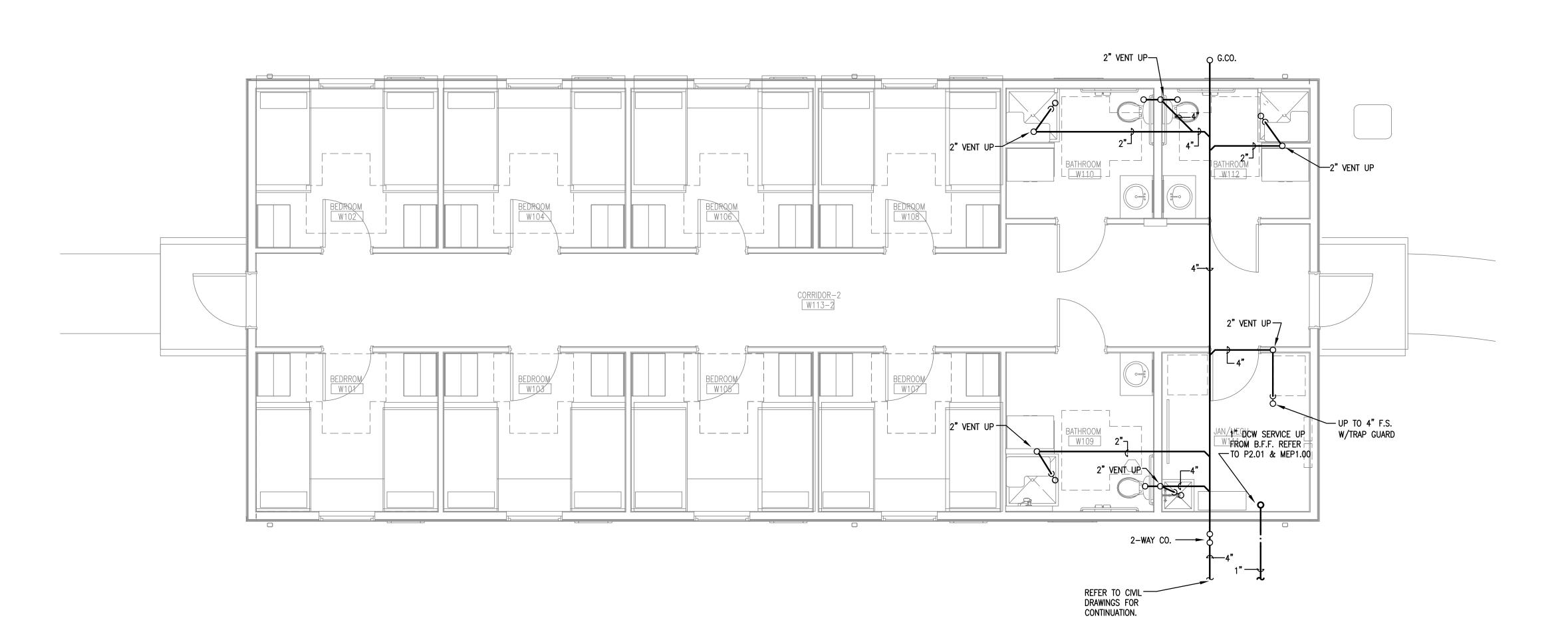
SHEET TITLE EAST & WEST BUNKHOUSE FLOOR PLANS UNDERFLOOR PLUMBING

SHEET NUMBER P2.01BU

mwm Design Group

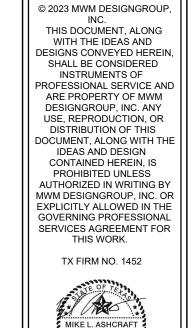


01 EAST BUNKHOUSE FLOOR PLAN - UNDERFLOOR PLUMBING (ALTERNATE #1) SCALE: 1/4" = 1'-0"









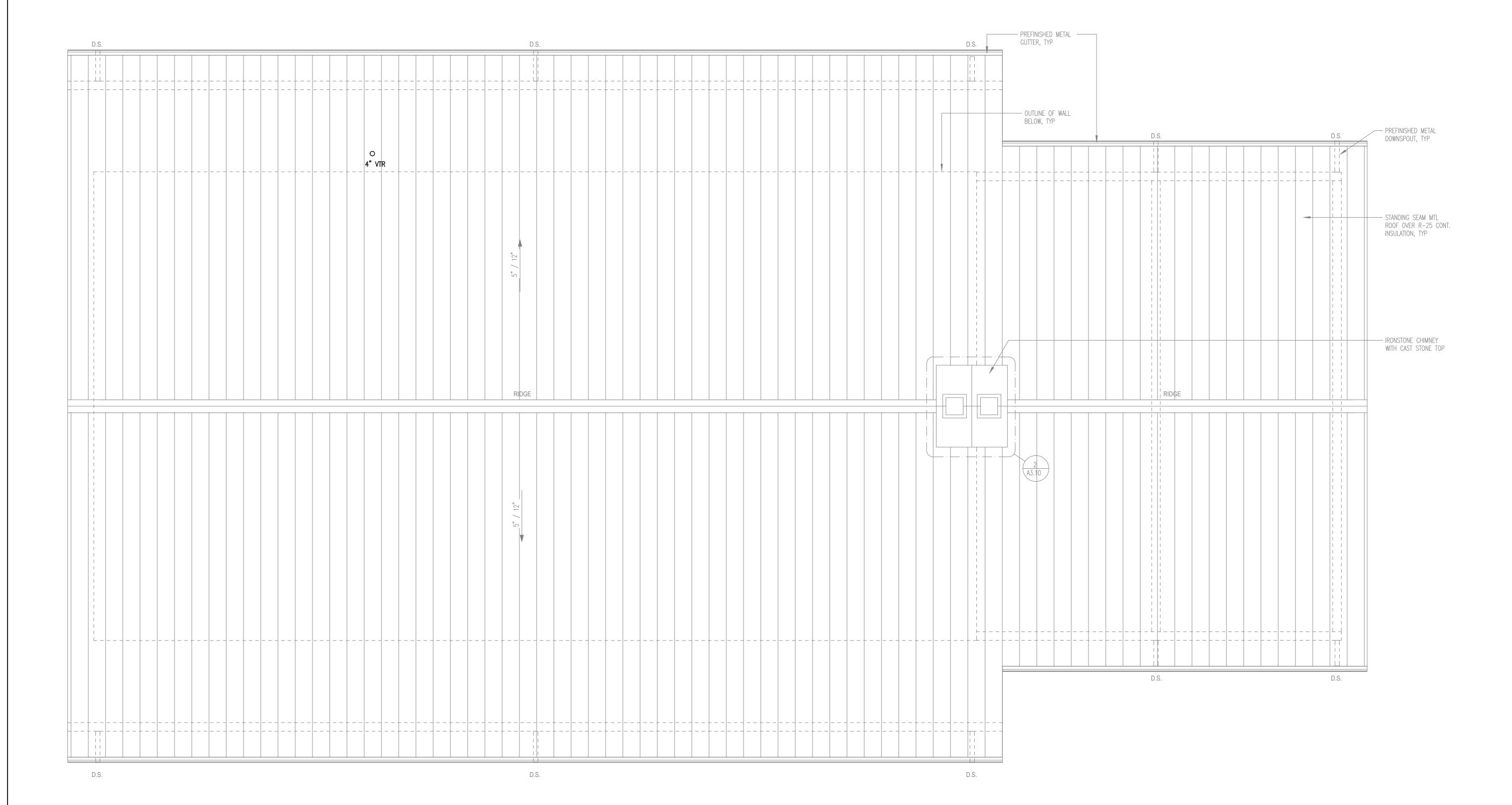


GUS ENGELING WMA GATHERING LODGE & BUNKHOUSES

DESIGNED BY: REVIEWED BY:

SHEET TITLE GATHERING LODGE ROOF PLAN PLUMBING

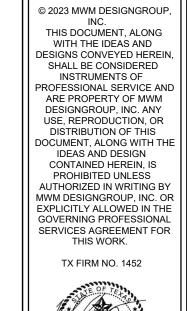
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01 GATHERING LODGE - PLUMBING SCALE: 1/4" = 1'-0"









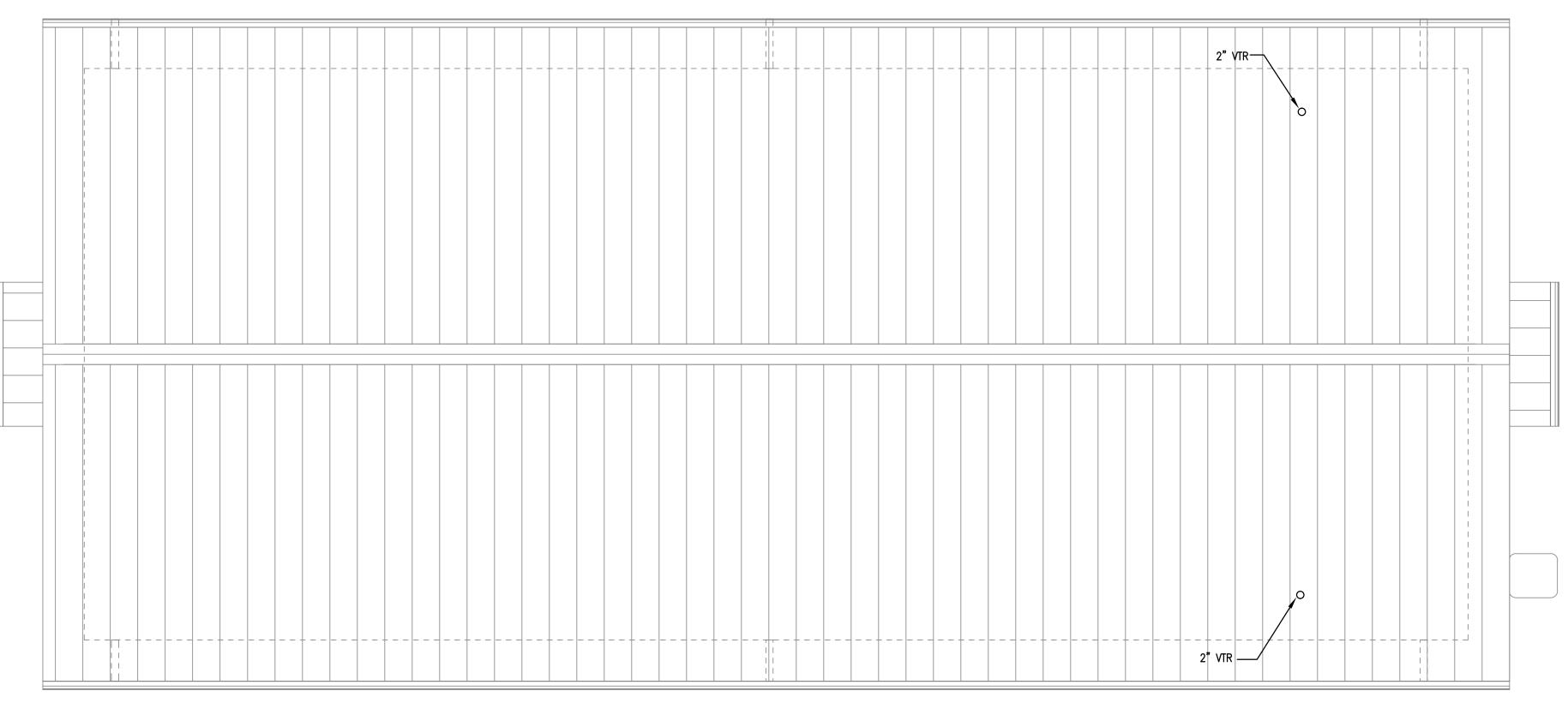
GUS ENGELING WMA GATHERING LODGE & BUNKHOUSES PROJECT NUMBER: 1211534

REVIEWED BY:

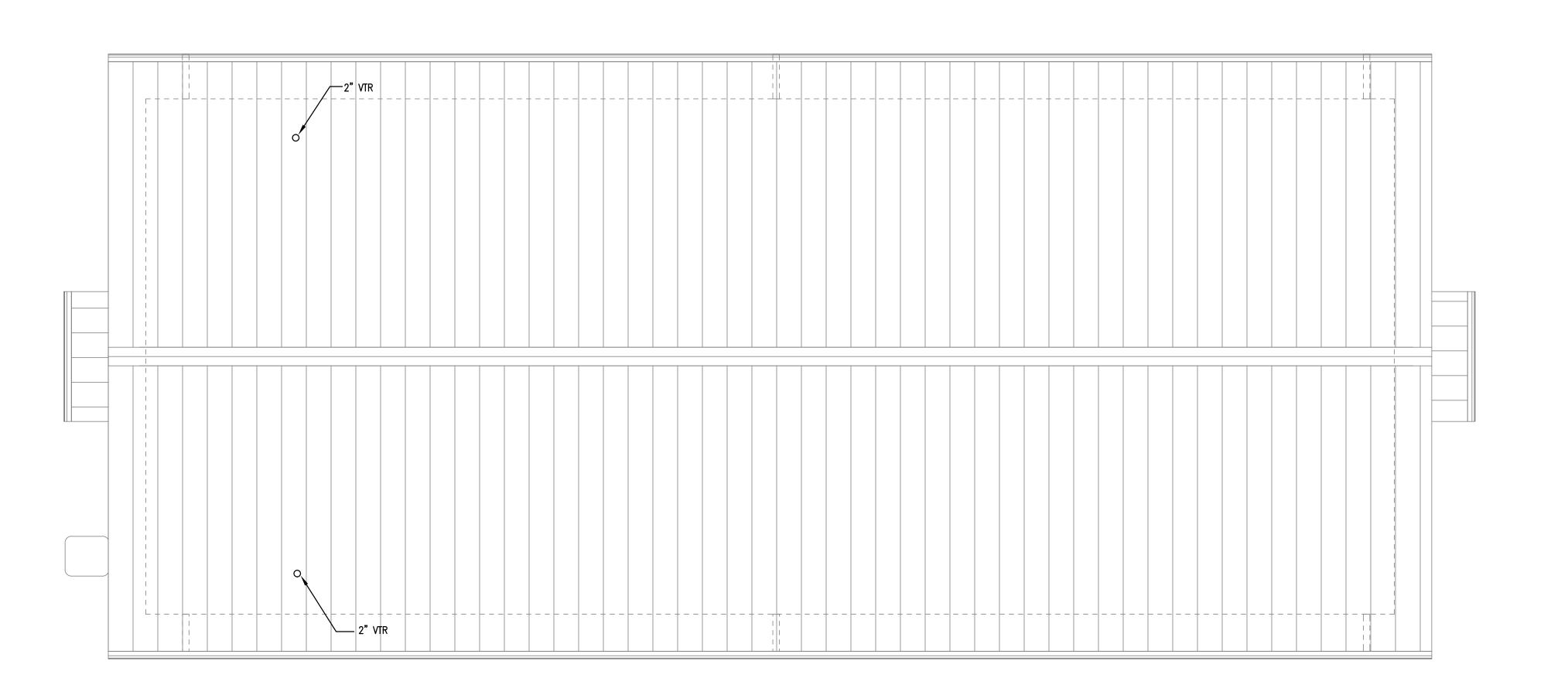
SHEET TITLE

SHEET NUMBER P2.02B

mwm Design<mark>Group</mark>



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



PLUMBING FIXTURE AND TRIM SCHEDULE

CHAMPION MODEL #211AA104.020 "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

AMERICAN STANDARD MODEL #0356.015 "LUCERNE" VITREOUS CHINA WALL HUNG LAVATORY FOR CONCEALED ARMS SUPPORT AND

SPEAKMAN MODEL #SC-3004-LD-E "COMMANDER" WIDESPREAD GOOSENECK LAVATORY FAUCET WITH 4" WRISTBLADE HANDLES, RIGID

AMERICAN STANDARD MODEL #0495.221 "OVALYN" VITREOUS CHINA UNGLAZED RIM UNDERCOUNTER LAVATORY WITH FRONT OVERFLOW,

SPEAKMAN MODEL #SB-2011-E "CHELSEA" POLISHED CHROME SINGLE LEVER LAVATORY FAUCET AND 0.5 GPM VANDAL RESISTANT

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

ELMHURST MODEL #P188103LF "PEERLESS" STAINLESS STEEL SINGLE HANDLE KITCHEN PULL DOWN FAUCET WITH LEVER HANDLE,

INSINKERATOR FOOD WASTE DISPOSER MODEL EVOLUTION COMPACT WITH MULTIGRIND, 3/4 HP MOTOR 120V/1 PH/60 HZ, STAINLESS

ELKAY MODEL #LRAD252140 25" x 21-1/4" x 4" DEEP, 18 GA. TYPE 304 STAINLESS STEEL SINK WITH THREE (3) FAUCET HOLES

ELMHURST MODEL #P188103LF "PEERLESS" STAINLESS STEEL SINGLE HANDLE KITCHEN PULL DOWN FAUCET WITH LEVER HANDLE

COMFORT DESIGNS MODEL #SST 3838 TR RRF .75 ADA COMPLIANT SHOWER STALL WITH 3/4" VERTICAL THRESHOLD INTEGRAL

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,

FIAT MODEL #830-AA WALL MOUNTED SERVICE SINK FAUCET WITH VACUUM BREAKER SPOUT, INTEGRAL STOPS, ADJUSTABLE WALL

FIAT MODEL #832AA HOSE & BRACKET WITH 30" LONG HEAVY DUTY RUBBER HOSE AND STAINLESS STEEL BRACKET WITH RUBBER

FIAT MODEL #1453BB STAINLESS STEEL FLAT STRAINER DRAIN, QUICK DRAIN CONNECTOR SELECTED FOR 3" DRAIN PIPE MODEL

JAY R. SMITH #3140C-12 CAST IRON BODY, NICKEL BRONZE RIM, NB 1/2 GRATE, DOME BOTTOM STRAINER, AND TRAP GUARD.

ELKAY MODEL #LZSTL8LFC WALL MOUNTED BI-LEVEL ADA FILTERED 8 GPH WITH LFEXI-GUARD SAFETY BUBBLER, ELECTRONIC FRONT

SLOAN MODEL #186-0.5 ROYAL EXPOSED URINAL MANUAL 0.5 GPF FLUSH VALVE, ADA COMPLIANT, NON-HOLD OPEN HANDLE, HIGH

ZURN MODEL #Z1222 WALL URINAL SUPPORT SYSTEM WITH TOP SUPPORT PLATE. REFER TO ARCH ELEVATION DRAWINGS FOR EXACT

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ZURN MODEL #Z5755-U "OMNI-FLO" VITREOUS CHINA 14" EXTENDED RIM FOR HANDICAP COMPLIANCE WALL HUNG URINAL,

JAY R. SMITH #2005-U CAST IRON BODY, NICKEL BRONZE ROUND TOP WITH VANDAL PROOF SCREWS AND TRAP GUARD.

JAY R. SMITH #5509QT NON-FREEZE WALL HYDRANT. BRONZE NICKEL PLATED QUARTER TURN HYDRANT WITH HOSE

TRENCH DRAIN, (3) SUPPORT BARS (2) HORIZONTAL AND (1) VERTICAL, (1) FOLD DOWN SEAT. REFER TO ARCHITECTURAL DRAWINGS

ELKAY MODEL #LKPD1 DRAIN KIT WITH SEAMLESS WELDED STAINLESS STEEL COLLAR, PERFECT DRAIN, AND STRAINER.

McGUIRE MODEL #H-2165 SUPPLY KIT WITH CHROME PLATED ANGLE STOPS AND WHEEL HANDLES.

McGUIRE MODEL #8912 ADJUSTABLE CHROME PLATED P-TRAP WITH SET SCREW ESCUTCHEON AND

McGUIRE MODEL #H-2165 SUPPLY KIT WITH CHROME PLATED ANGLE STOPS AND WHEEL HANDLES.

McGUIRE MODEL #8912 ADJUSTABLE CHROME PLATED P-TRAP WITH SET SCREW ESCUTCHEON AND

2" DEEP SEA P-TRAP. FOLLOW ALL MANUFACTURER INSTALLATION INSTRUCTIONS TO COMPLY WITH TAS.

FIAT MODEL #TSB100 24"x24"x12" DEEP TERRAZZO MOP SINK BASIN WITH STAINLESS STEEL CAPS ON ALL CURBS

TWO 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS AND TWO CHROME PLATED STEEL FLANGES.

TWO 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS AND TWO CHROME PLATED STEEL FLANGES.

CHAMPION TELESCOPING SLOW CLOSE ELONGATED TOILET SEAT WITH COVER. PROVIDE SUPPLY WITH STOP AS RECOMMENDED BY

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

GOOSENECK SPOUT, AND 0.5 GPM VANDAL RESISTANT FLOW CONTROL DEVICE. AMERICAN STANDARD MODEL #2411.015 GRID DRAIN WITH 1-1/4" TAILPIECE

ONE P-TRAP, TWO ANGLE VALVE COVERS, AND TWO SUPPLY TUBE COVERS

AMERICAN STANDARD MODEL #2411.015 GRID DRAIN WITH 1-1/4" TAILPIECE

ELKAY MODEL #LK-18B TYPE 304 STAINLESS BODY, STRAINER AND TAILPIECE.

ROUGH-IN, VITREOUS CHINA COLOR AS SELECTED BY ARCHITECT, AND AMERICAN STANDARD MODEL #5324.019

McGUIRE MODEL #H-2165 SUPPLY KIT WITH CHROME PLATED ANGLE STOPS WITH ROUND WHEELHANDLES,

McGUIRE MODEL #8872 ADJUSTABLE CHROME PLATED P-TRAP W/SET SCREW ESCUTCHEON AND INTEGRAL

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

TRUEBRO MODEL #102 LAV GUARD UNDERSINK PROTECTIVE PIPE COVERS WHITE IN COLOR WITH

J.R. SMITH MODEL #0710 FLOOR MOUNTED LAVATORY SUPPORT WITH LABOR SAVER UPRIGHT

TWO 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS, AND TWO CHROME PLATED STEEL FLANGES

WC-1

WALL HUNG LAVATORY

FAUCET HOLES ON 8" CENTERS

MOUNTING KIT, & TEMPLATE.

SINK (DEEP SINGLE STAINLESS STEEL)

DRAIN LOCATION FOR APPROVED COMPATIBLE DISPOSER.

STEEL GRIND COMPONENTS, AND DISHWASHER CONNECTION.

AND SPECIFICATIONS FOR SHOWER PAN MAKE AND MODEL.

FIAT MODEL #E-88-AA STAINLESS STEEL BUMPERGUARD

J.R. SMITH MODEL #2692 QUAD CLOSE TRAP SEAL DEVICE.

BRACE, PAIL HOOK, WALL BRACE AND 3/4" HOSE THREAD ON SPOUT.

WOODFORD #24 HOSE BIBB WITH VACUUM BREAKER AND CHROME FINISH.

AND SIDE BUBBLER PUSHBAR ACTIVATION, 115V/60Hz, 5 FULL LOAD AMPS

FIAT MODEL #889CC STAINLESS STEEL MOP BRACKET WITH THREE RUBBER TOOL GRIPS

CONNECTION, VACUUM BREAKER, "T" HANDLE KEY, STAINLESS STEEL BOX AND LOCKING COVER.

WASHOUT FLUSH ACTION, 3/4" TOP SPUD 0.5 GPF, AND (2) CONCEALED WALL HANGERS.

BACK PRESSURE VACUUM BREAKER, ADJUSTABLE TAILPIECE, 3/4" TOP SPUD COUPLING AND FLANGE.

FLOW CONTROL DEVICE.

CLEANOUT PLUG

CLEANOUT PLUG.

CLEANOUT PLUG.

KS-2 SINK (ADA SINGLE STAINLESS STEEL)

4" ON CENTER FOR 8" WIDESPREAD FAUCET.

SH-1 SHOWER STALL - (ALL GUESTROOM TOILETS)

& 24" COMBINATION SLIDE BAR.

#QDC-3, AND 3" P-TRAP

NFHB NON-FREEZE-PROOF WALL HYDRANT

MOUNTING HEIGHTS.

FLOOR SINK (JANITOR 108)

FLOOR SINK (MECHANICAL ROOMS)

FLOOR DRAIN/FLOOR SINK TRAP GUARD

FLOOR

WMA BUNKHOUSES 7

NGELING

S E GU GATI

04/03/2024

DESIGNED BY: DRAWN BY: REVIEWED BY:

SHEET TITLE

SCHEDULES & DETAILS

SHEET NUMBER

JOSAM 58680(HEAVY DUTY) -ACCESS BOX -16"x16"x5" CONCRETE PAD

GATE VALVE

SHUT-OFF VALVE (TYPICAL) -

VACUUM RELIEF VALVE —

UNION (TYP.) —

ELECTRIC WATER HEATER -

ROUTE TEMP. AND PRESS. RELIEF DRAIN LINE TO

ROUTE TEMP. AND PRESS.

RELIEF DRAIN LINE TO MOPSINK IN BUNKHOUSES

DRAIN PAN DRAIN-

3/4" ABOVE BOTTOM

GRADE

COMPACTED

EARTH ----

CAST IRON

FLOOR DRAIN IN MAIN BLDG.

REFER TO SCHEDULE

THIS SHEET.

A.S.M.E. RATED -

RELIEF VALVE

TEMP. & PRESS.

PROVIDE EXTENSION HANDLE IF MORE THAN 18" BELOW GRADE

PLANS FOR MAIN SIZE

TWO-WAY CLEANOUT DETAIL

-<u>HOT WATER CIRC. PUMP</u> BELL & GOSSETT " LITTLE RED" LE-20B, 1/25 HP, 120V, 1ø —BALANCING VALVE W/MEMORY STOP - CHECK VALVE (TYP.) THERM-X-TROL MODEL #ST-5-C ASME CODE TANK 2.1 GAL. CAP. -16 GAUGE GALVANIZED STEEL DRAIN PAN (SOLDER ALL SEAMS)

-THERMOMTER

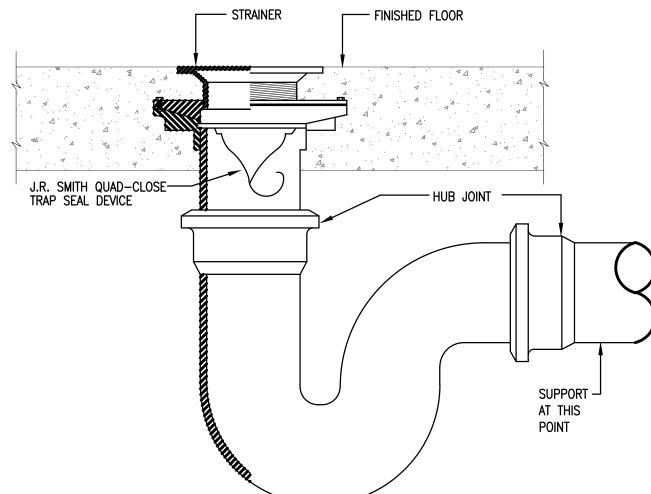
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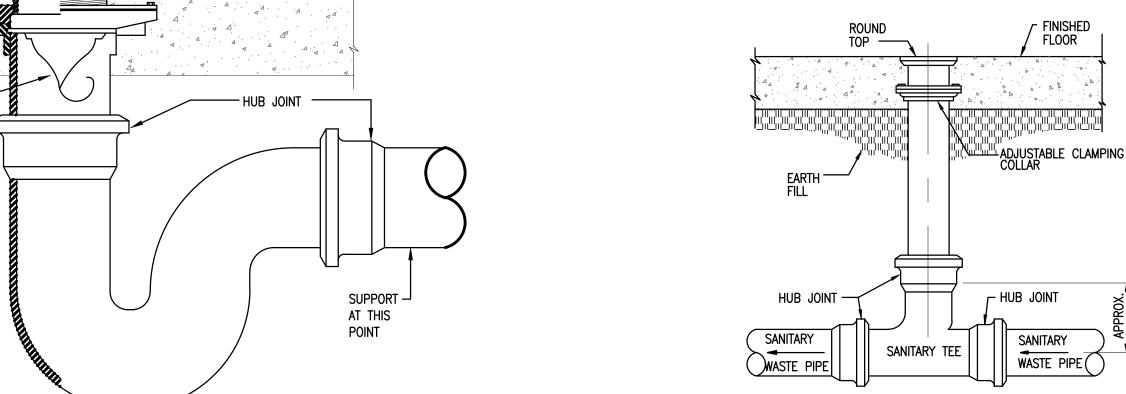
-EXPANSION TANK

IRON FERRULE WITH METAL COUNTERSUNK

SCREW PLUG

01 Electric Water Heater Piping Detail





02 FLOOR DRAIN/SINK W/TRAP GUARD DETAIL SCALE: N.T.S.

CLEANOUT DETAIL

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	A.O. SMITH MODEL #DEN-120	SIMULTANEOUS DUAL ELEMENT OPERATION

SHEET TITLE PLUMBING RISER SYMBOLS & LEGENDS

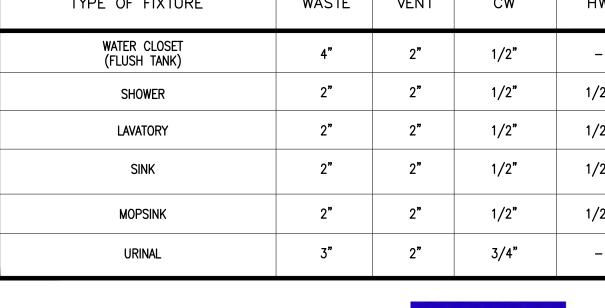
SHEET NUMBER P7.02

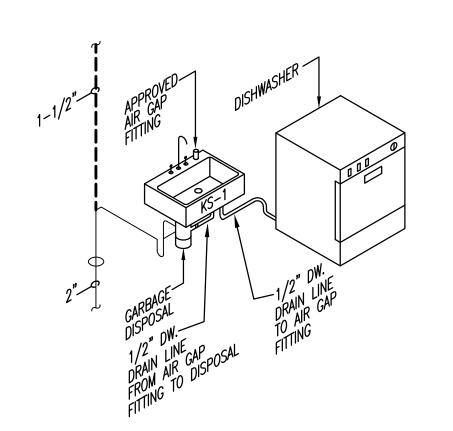
DESCRIPTION SYMBOL DOMESTIC COLD WATER PIPING DOMESTIC HOT WATER PIPING DOMESTIC HOT WATER RETURN PIPING EXISTING PLUMBING PIPING EXISTING SANITARY VENT PIPING PIPING UP PIPING DOWN WET-PIPE FIRE PROTECTION PIPING NATURAL GAS PIPING WATER SERVICE DIRECTION OF FLOW GATE VALVE BUTTERFLY VALVE BALL VALVE GLOBE VALVE TEMPERATURE AND PRESSURE RELIEF VALVE GAS COCK PRESSURE REGULATING VALVE HYDRAULIC SHOCK ARRESTOR HOSE BIBB OR HYDRANT THERMOMETER INDIRECT WASTE PIPING SANITARY SEWER PIPING SANITARY VENT PIPING PRIMARY ROOF DRAIN LEADER OVERFLOW ROOF DRAIN LEADER STORM DRAIN PIPING BELOW GRADE SUB-SOIL DRAIN PIPING PUMPED SANITARY SEWER PIPING PUMPED STORM DRAIN PIPING ——PSD —— 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 SANITARY SEWER SANITARY VENT TRAP PRIMER VALVE VENT THRU ROOF EXISTING TO REMAIN EXISTING TO BE RELOCATED RELOCATED FROM EXISTING

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

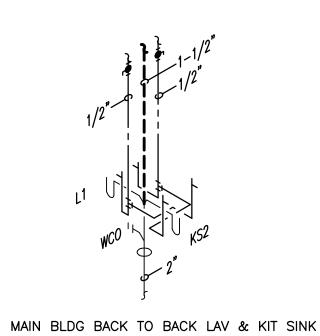
AFF AFG A/C B/F BFF B/C BRF CO CW DCC DS FCC FD FDC GCC GC GW HW OD ODN RD	ABOVE ABOVE ABOVE BELOW BELOW BELOW CLEAN COLD DOUBL DOWNS FLOOR FRESS ROOF	FINISHED GRADE CEILING FLOOR FINISHED FLOOR FINISHED FLOOR GRADE RAISED FLOOR OUT WATER E CLEANOUT SPOUT CLEANOUT DRAIN DEPARTMENT CONNECTION CLEANOUT AL CONTRACTOR E WASTE VATER VATER VATER RETURN LOW DRAIN LOW DOWNSPOUT NOZZLE URE REDUCING VALVE DRAIN	SS PY (TR E) D) R)
RD SD		Drain Drain	

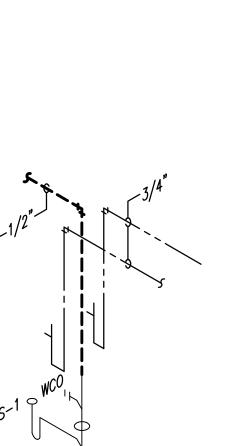
FIXTURE CONNECTION SCHEDU					
TYPE OF FIXTURE	WASTE	VENT	CW	HW	
WATER CLOSET (FLUSH TANK)	4"	2"	1/2"	-	
SHOWER	2"	2"	1/2"	1/2"	
LAVATORY	2"	2"	1/2"	1/2"	
SINK	2"	2"	1/2"	1/2"	
MOPSINK	2"	2"	1/2"	1/2"	
LIDINA	77	0,7	7 /4"		



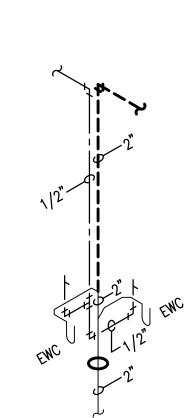


01 DISHWASHER DRAIN CONNECTION DETAIL No Scale

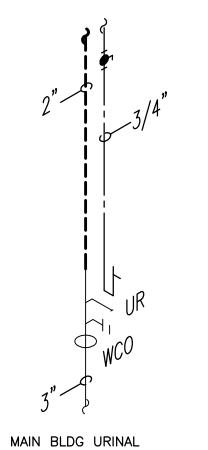


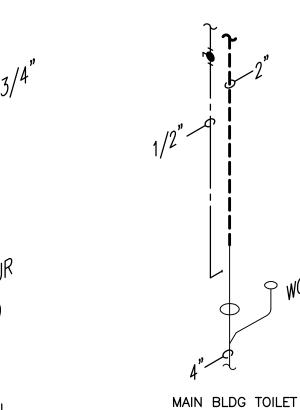


BUNKHOUSE BACK TO BACK TOILETS



BUNKHOUSE BACK TO BACK TOILET & MOPSINK





BUNKHOUSE SHOWER

02 RISER DIAGRAMS

MAIN BLDG EWC

mwm **Design** Group