

GENERAL NOTES:

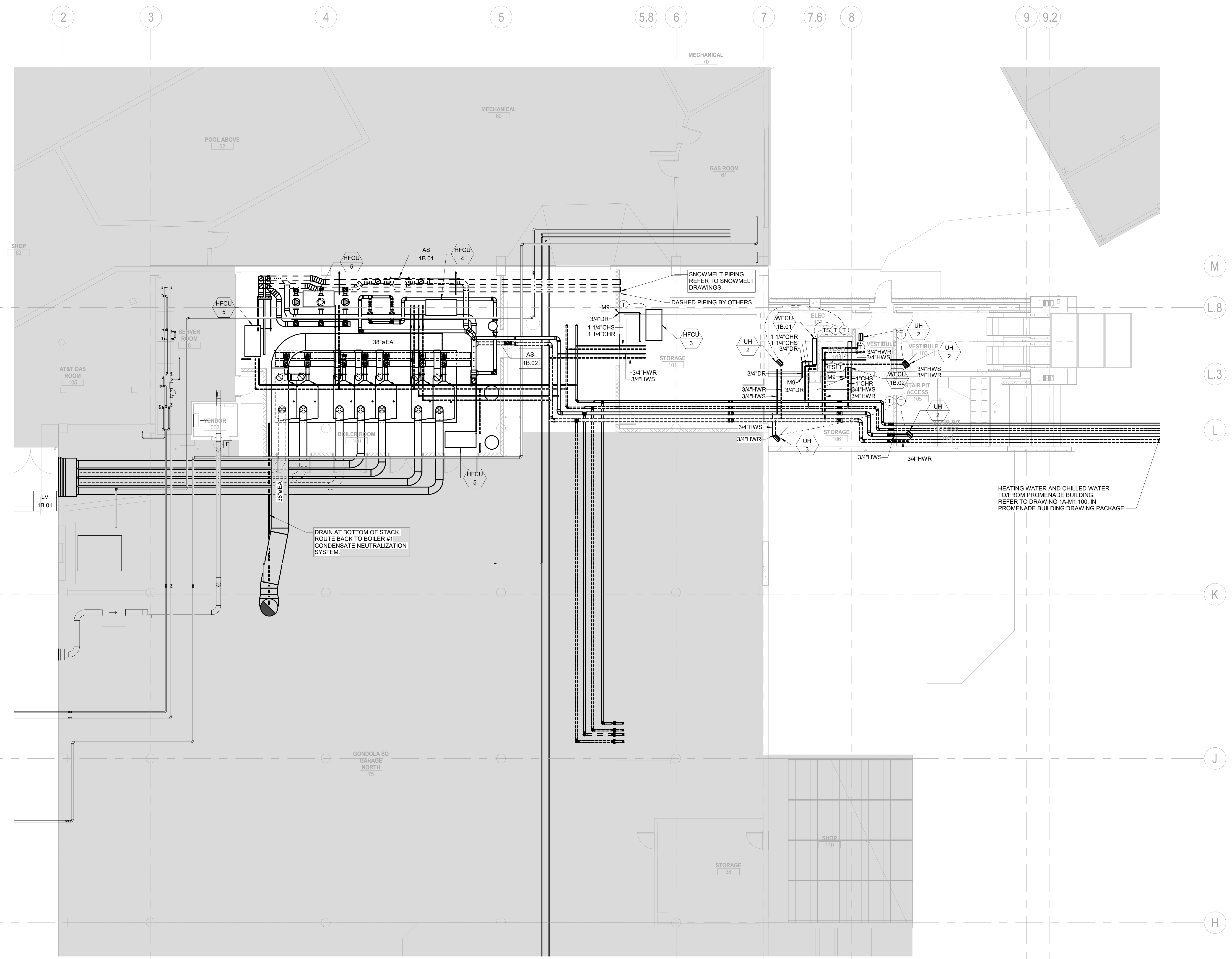
1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR IS RESPONSIBLE FOR ALL OFFSETS, TRANSITIONS, ELBOWS, ETC. AS REQUIRED IN DUCTWORK, PIPING, SUPPORTS, ETC. TO COMPLETE THE WORK IN A CLEAN, FUNCTIONAL INSTALLATION THAT IS FULLY COORDINATED WITH ALL OTHER TRADES. ANY PRICING EFFORT SHALL TAKE THESE FACTORS INTO ACCOUNT.
2. MAINTAIN CODE REQUIRED AREA OF SEPARATION FROM OUTSIDE AIR INTAKES TO TERMINATIONS OF EXHAUST, COMBUSTION AIR, PLUMBING VENTS, ETC.
3. COORDINATE EQUIPMENT HOUSEKEEPING PAD DIMENSIONS AND LAYOUT WITH THE GENERAL CONTRACTOR BASED ON FINAL EQUIPMENT SIZES.
4. PROVIDE MANUAL BALANCE DAMPERS IN ALL SUPPLY DUCT BRANCH TAPS DOWNSTREAM OF VAV BOXES.
5. PROVIDE MANUAL BALANCE DAMPERS IN ALL EXHAUST DUCT BRANCH TAPS.
6. PROVIDE TRANSFER "Z" BOOT DUCTS IN FULL HEIGHT WALLS WHERE A PLENUM RETURN SYSTEM IS UTILIZED. BOOTS SHALL BE SIZED TO MAINTAIN A MAXIMUM OF 400 FPM. PROVIDE A GRILLE FOR ALL TRANSFERS IN EXPOSED AREAS. RE: ARCH.
7. COORDINATE SPACE TEMPERATURE SENSORS AND THERMOSTAT LOCATIONS TO ALIGN VERTICALLY WITH LIGHT SWITCHES.
8. TEMPERATURE CONTROLS CONTRACTOR SHALL SUBMIT PLANS INDICATING ALL SPACE TEMPERATURE SENSORS, T-STATS, HUMIDITY SENSORS, ETC. AS PART OF SUBMITTAL PROCESS FOR A/E REVIEW PRIOR TO ROUGH-IN.
9. PROVIDE THROUGH FACE BALANCING FOR ALL DIFFUSERS, REGISTERS, AND GRILLES ABOVE INACCESSIBLE AREAS.
10. PROVIDE TURNING VANES IN ALL 90° DUCT ELBOWS.
11. INSTALL EXPOSED DUCTWORK AS HIGH AS POSSIBLE.
13. ALL DUCT/PIPE PENETRATIONS THROUGH FIRE RATED/SMOKE RATED PARTITIONS SHALL BE CAULKED AND SEALED TO MEET THE RATING REQUIRED. REFER TO LIFE SAFETY DRAWINGS FOR FIRE/SMOKE RATING REQUIREMENTS.
14. PROVIDE ISOLATION VALVES AT EACH BRANCH LINE OFF OF RISER.
15. PROVIDE 3/4" BRANCH PIPING TO ALL TERMINAL UNITS, UNLESS NOTED OTHERWISE.
16. PROVIDE CONDENSATE DRAIN FROM ALL CHILLED WATER COILS AND DX EVAPORATOR COILS TO NEAREST MOP SINK OR MECHANICAL ROOM FLOOR DRAIN. PROVIDE CONDENSATE PUMP FOR WALL MOUNTED UNITS AND CONCEALED UNITS THAT CANNOT BE GRAVITY DRAINED TO TERMINATION LOCATION.

KEYNOTES

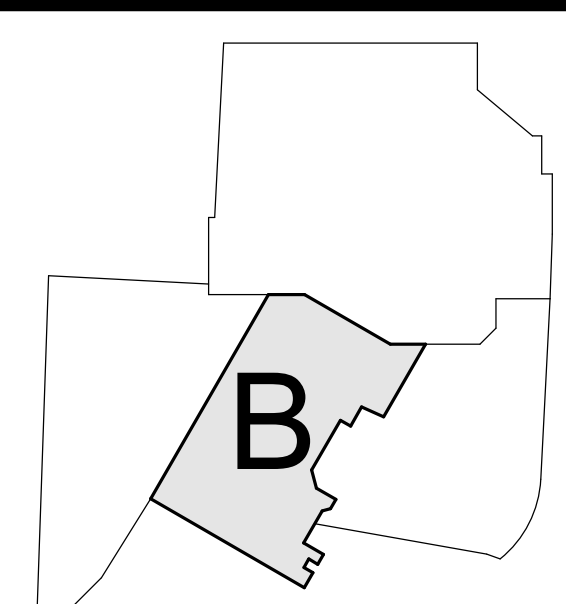
- M9 ROUTE CONDENSATE DRAIN DOWN WALL AND STUB OUT TO FLOOR DRAIN.

Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR PERMIT

RCRBD
Record Set
TC
06/29/2021



KEY PLAN



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SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

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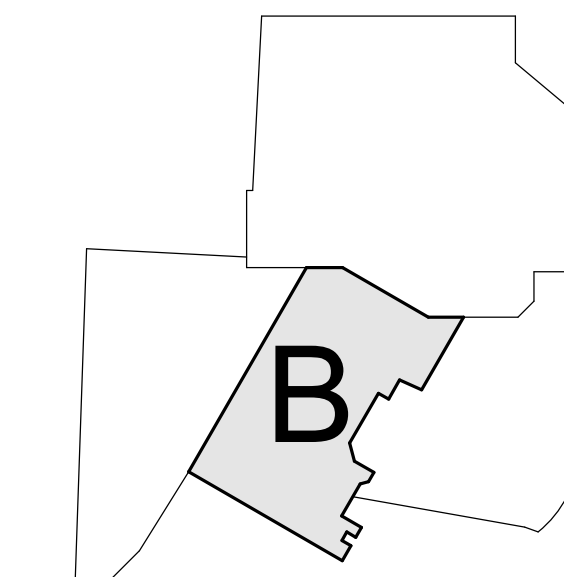
GOLD WALK - MECHANICAL PLAN - LEVEL 03

Scale

1/8" = 1'-0"

1B-M1.203

KEY PLAN



1 MECHANICAL PLAN - LEVEL 03 (Summer 2021)

SCALE: 1/8" = 1'-0"

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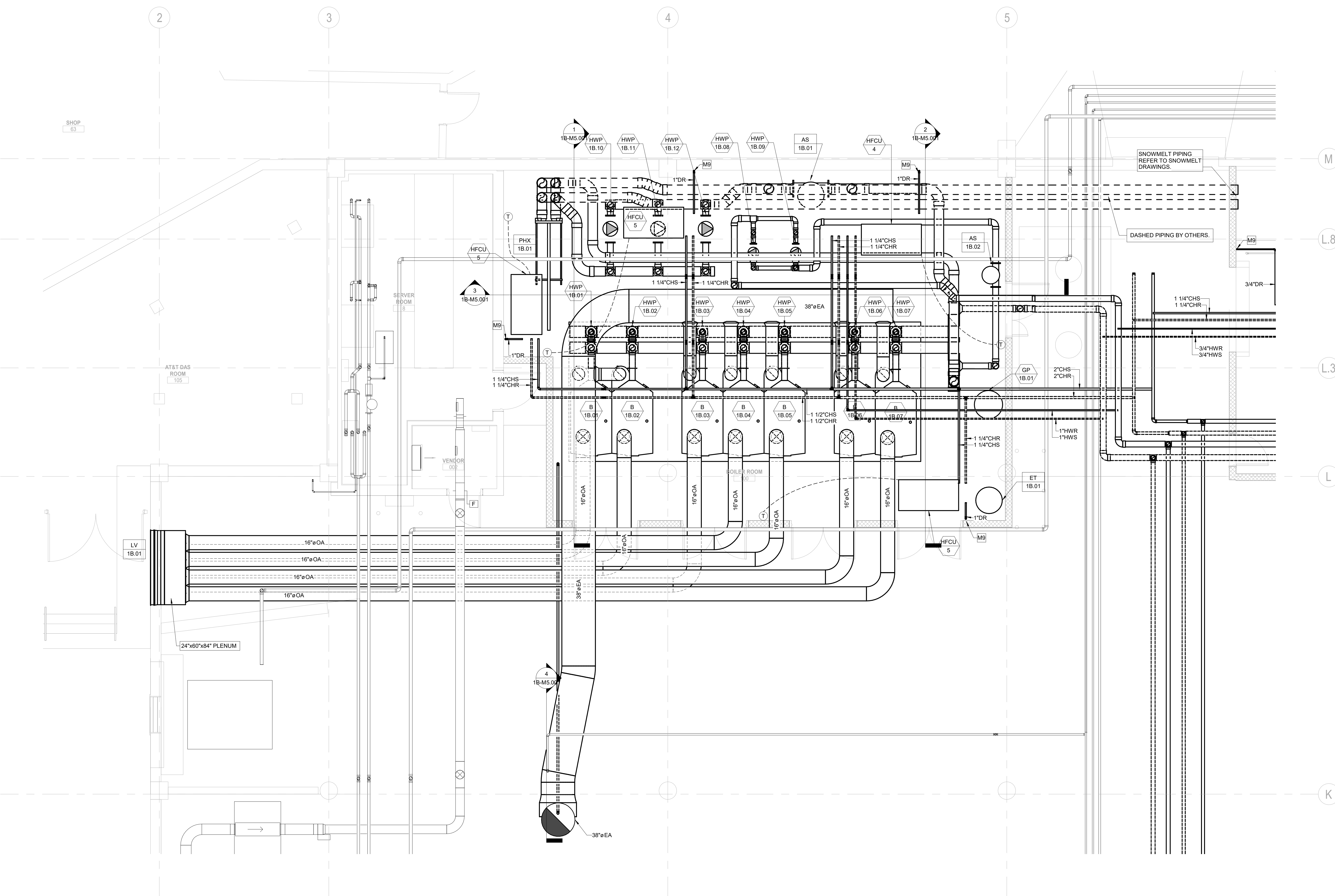
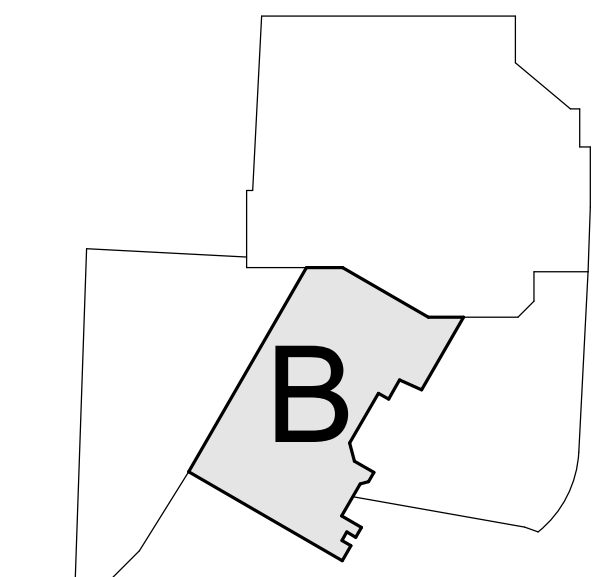
GOLD WALK - MECHANICAL ENLARGED PLANS

Scale

1/4" = 1'-0"

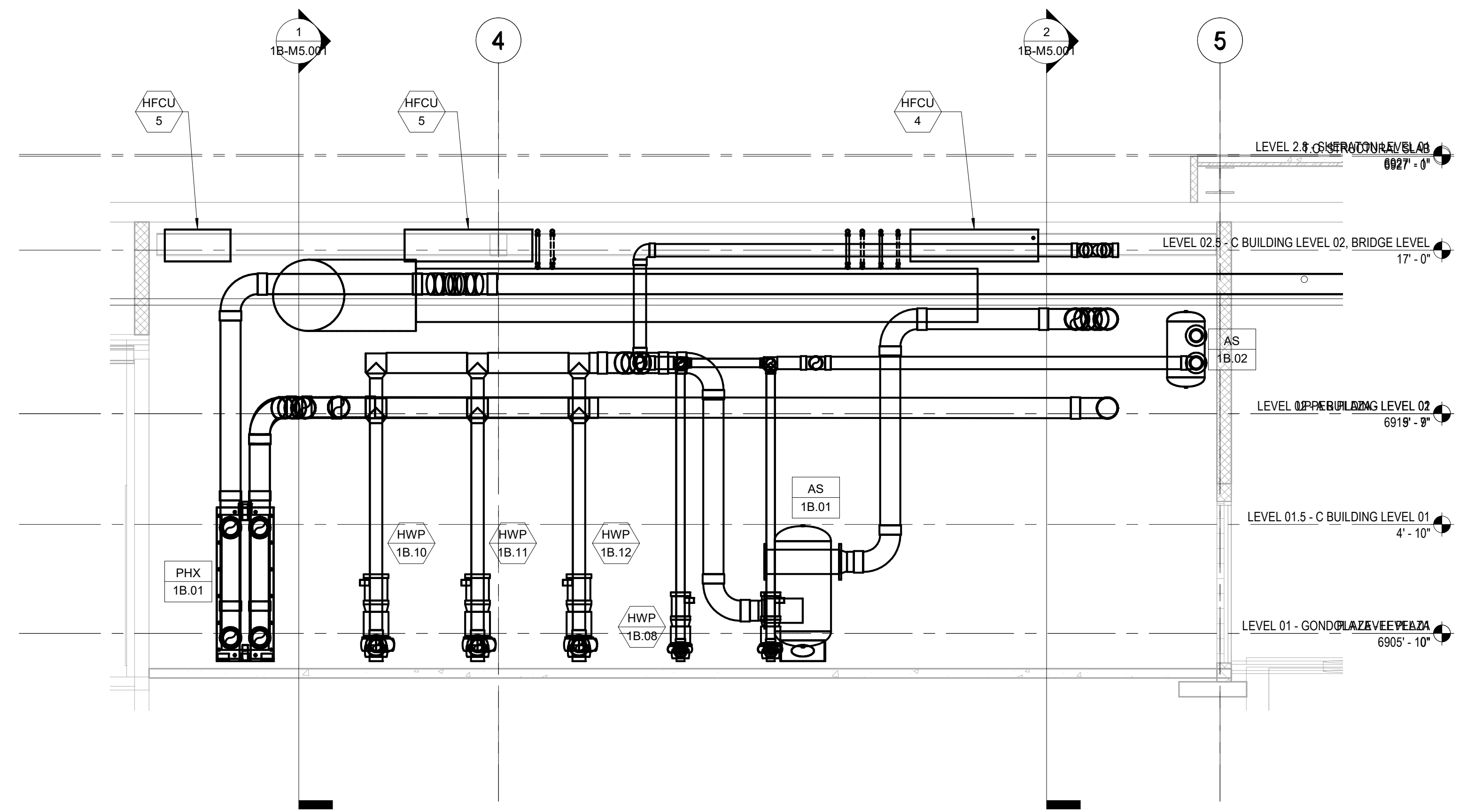
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KEY PLAN

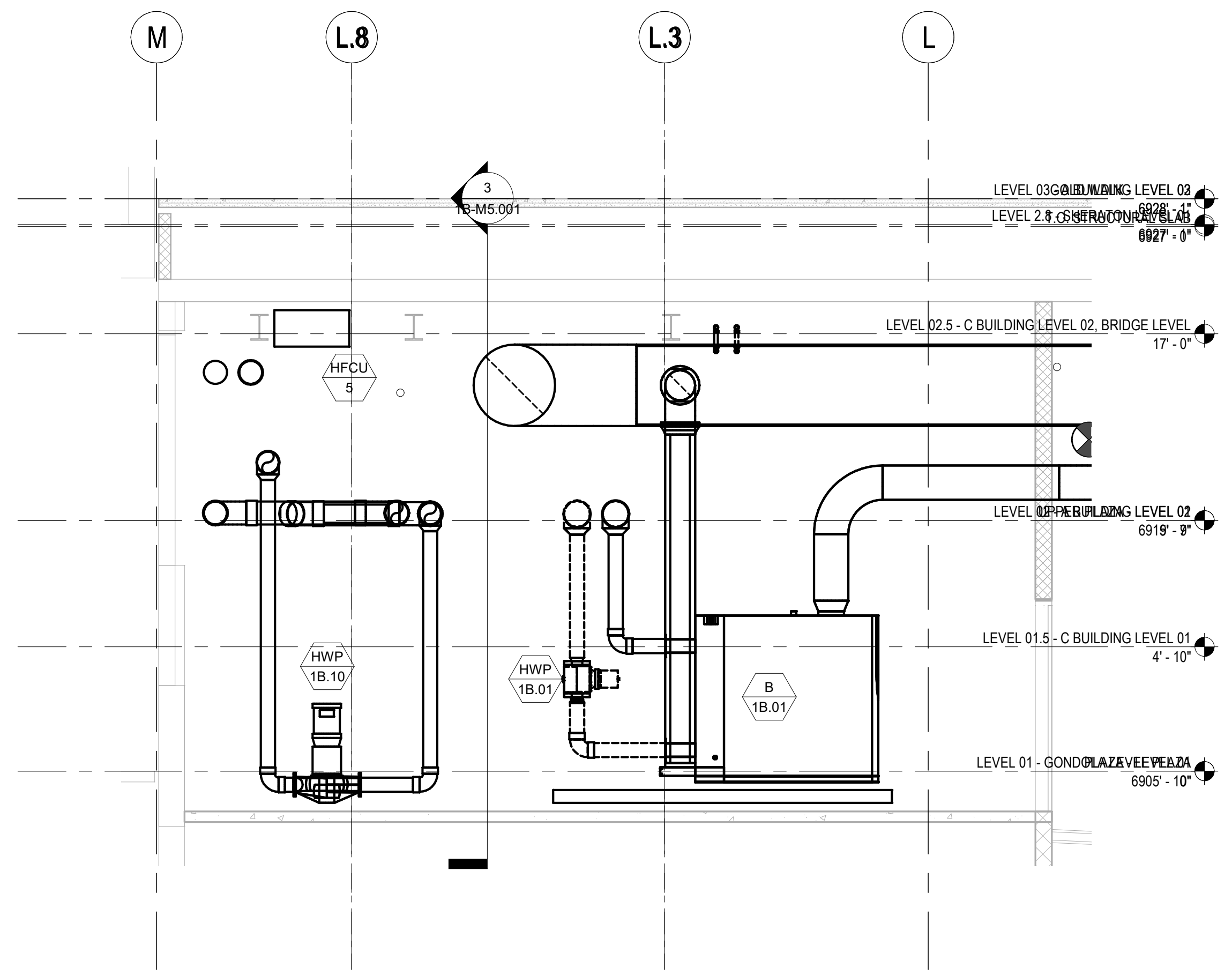


1 MECHANICAL ENLARGED PLAN - LEVEL 01

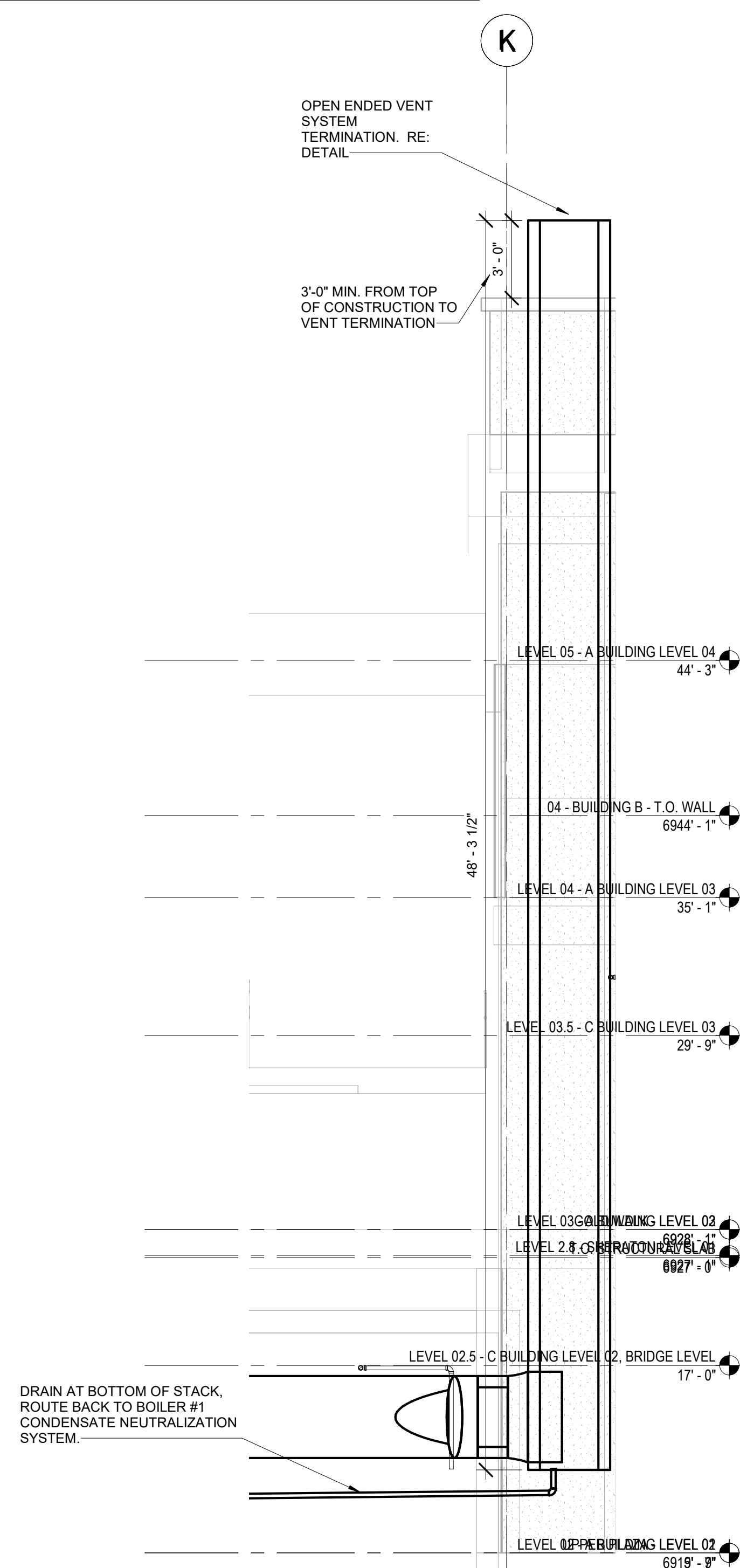
SCALE: 1/4" = 1'-0"



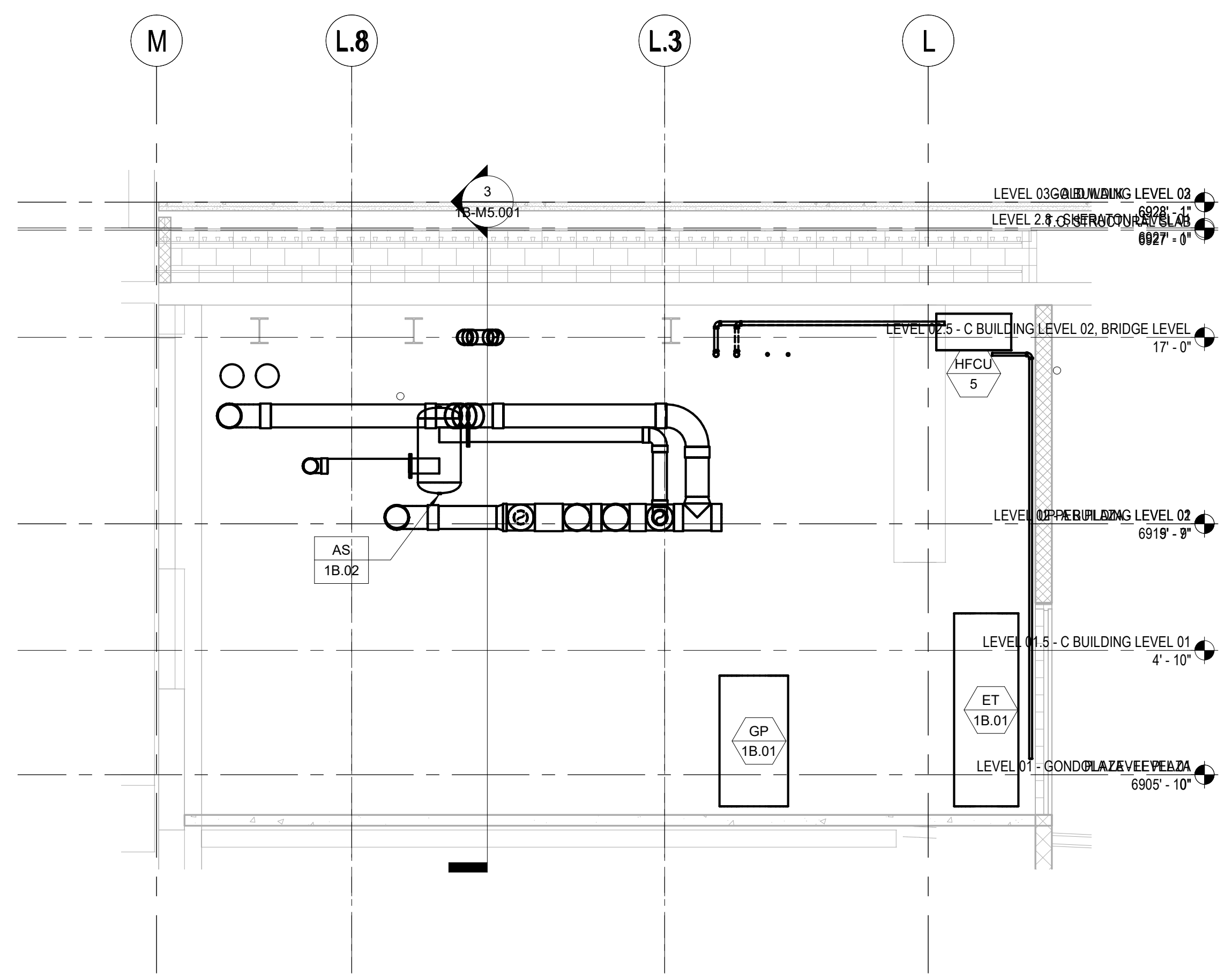
3 BOILER ROOM SECTION 3
SCALE: 1/4" = 1'-0"



1 BOILER ROOM SECTION 1
SCALE: 1/4" = 1'-0"

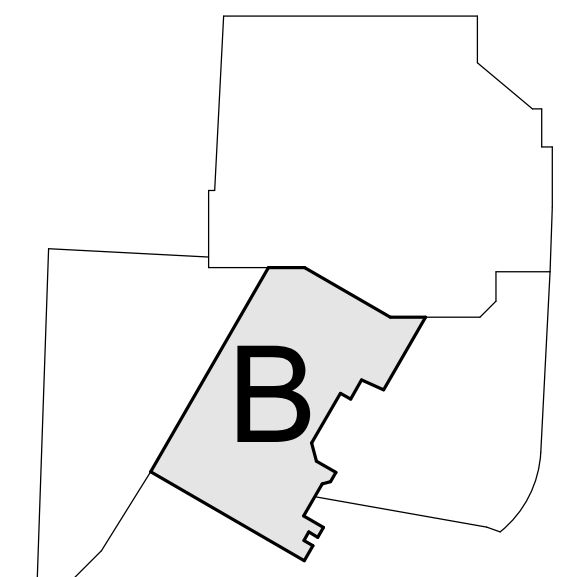


4 BOILER VENT STACK SECTION
SCALE: 1/4" = 1'-0"



2 BOILER ROOM SECTION 2
SCALE: 1/4" = 1'-0"

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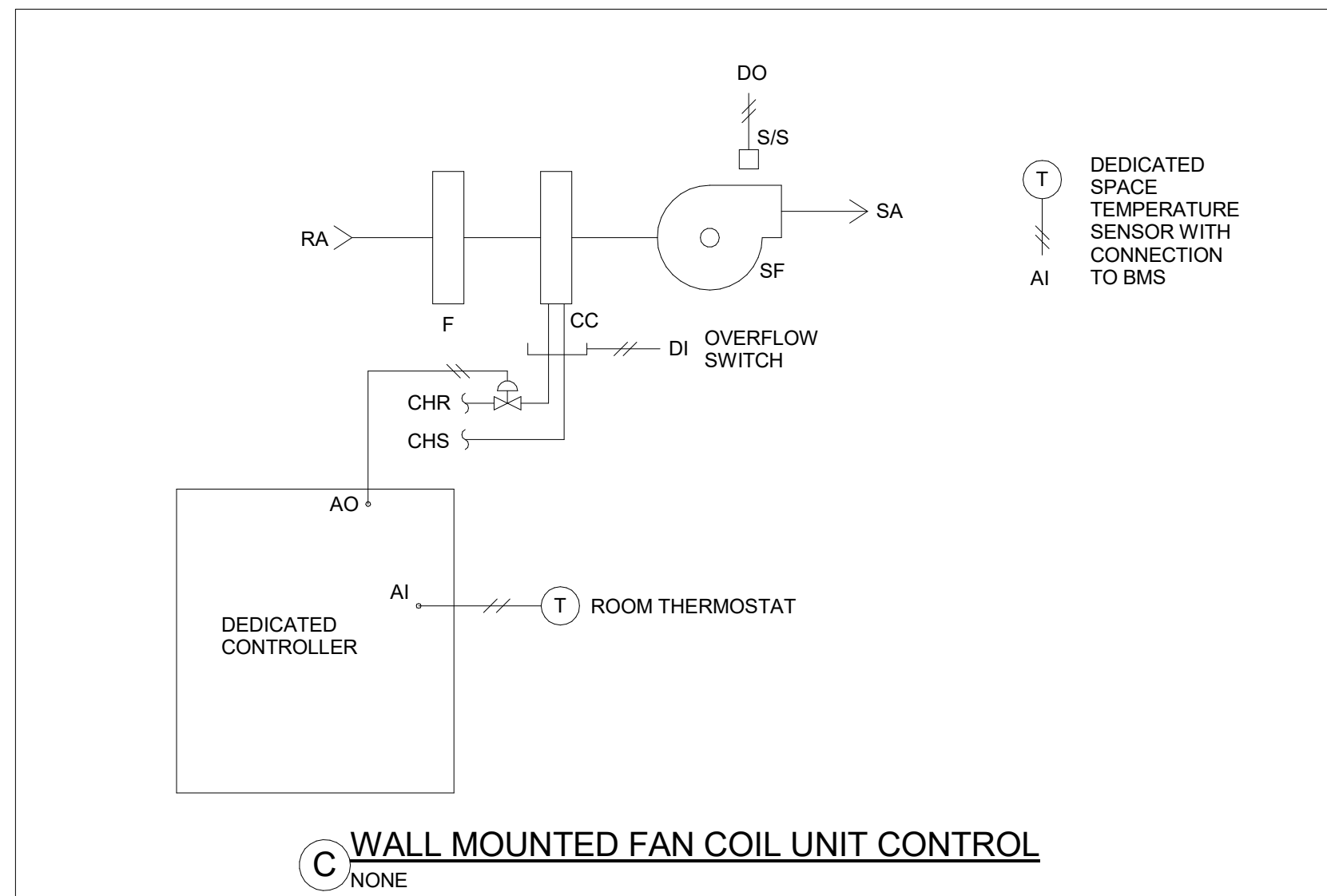
Project Name
SSRC | BASE AREA IMPROVEMENTS

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Description
GOLD WALK - MECHANICAL SECTIONS

Scale
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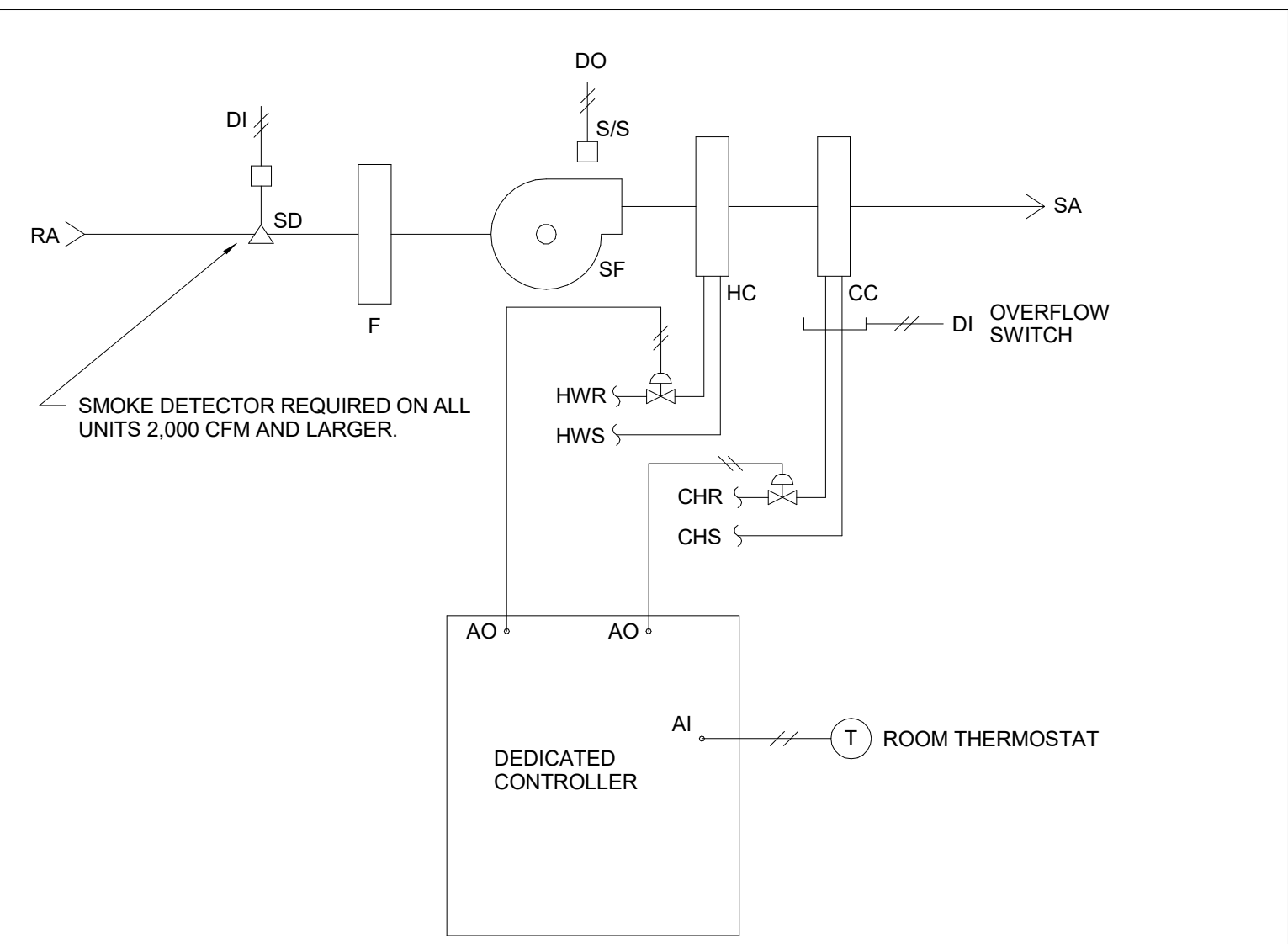
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C WALL MOUNTED FAN COIL UNIT CONTROL
NONE

SEQUENCE OF OPERATION:

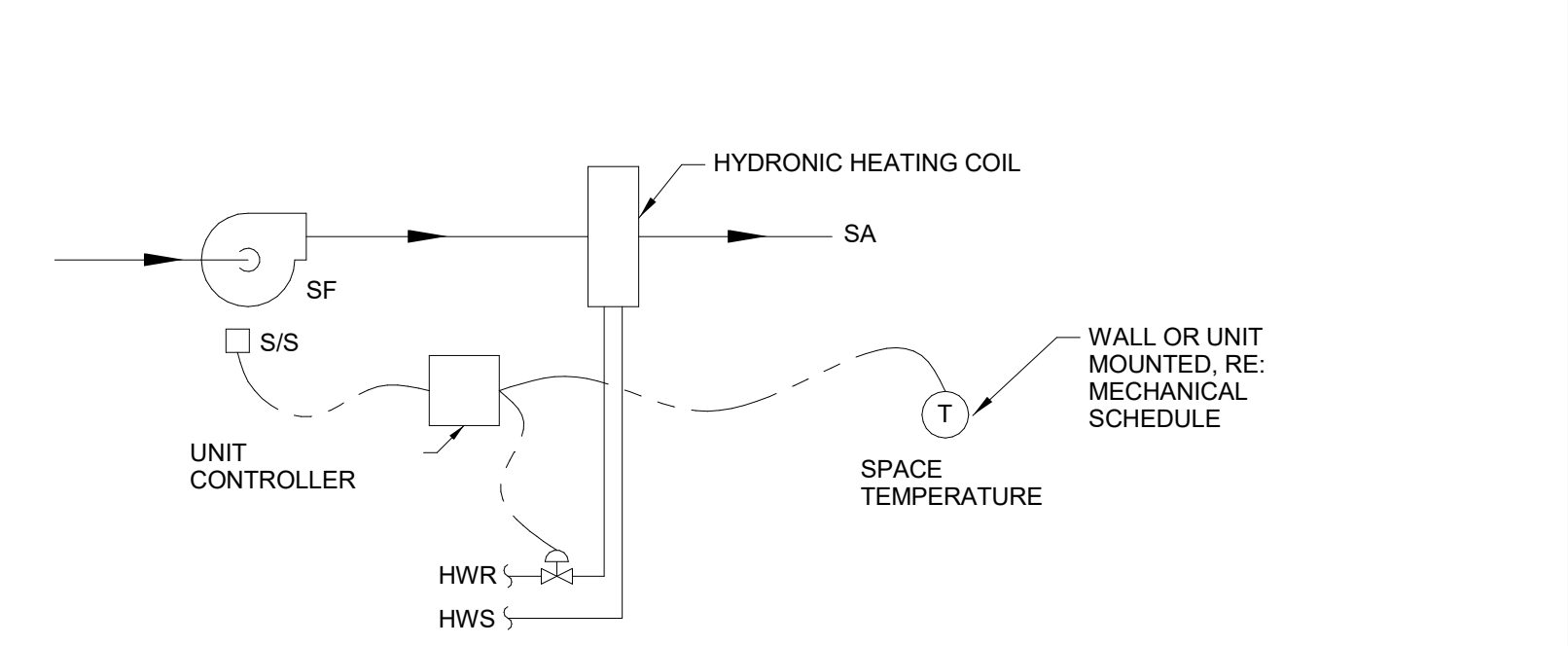
- A. GENERAL:
 1. THE FOLLOWING SEQUENCE OF OPERATION INCLUDES REQUIRED FUNCTIONALITY OF THE WALL MOUNTED FAN COIL UNIT. POINTS REQUIRED TO EXECUTE THIS SEQUENCE SHALL BE COORDINATED BETWEEN THE EQUIPMENT PROVIDER AND TEMPERATURE CONTROLS CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. SUBMIT LIST OF ITEMS TO BE PROVIDED BY THE TEMPERATURE CONTROLS CONTRACTOR IN ORDER TO EXECUTE THIS SEQUENCE.
- B. OCCUPIED MODE:
 1. WHEN THE UNIT IS IN THE OCCUPIED MODE, THE SUPPLY FAN SHALL OPERATE INTERMITTENTLY. THE SUPPLY FAN SHALL DELIVER CONSTANT AIRFLOW. COOLING VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
- C. UNOCCUPIED MODE:
 1. WHEN THE FCU ENTERS UNOCCUPIED MODE THE SUPPLY FAN SHALL BE OFF AND THE COOLING CONTROL VALVE SHALL CLOSE.
- D. COOLING CONTROL:
 1. THE COOLING CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE COOLING SETPOINT. COOLING CONTROL VALVE SHALL CLOSE IF THE FANS ARE OFF.



D BOILER PLANT FAN COIL UNIT CONTROL
NONE

SEQUENCE OF OPERATION:

- A. GENERAL:
 1. THE FOLLOWING SEQUENCE OF OPERATION INCLUDES REQUIRED FUNCTIONALITY OF THE FAN COIL UNIT. POINTS REQUIRED TO EXECUTE THIS SEQUENCE SHALL BE COORDINATED BETWEEN THE EQUIPMENT PROVIDER AND TEMPERATURE CONTROLS CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. SUBMIT LIST OF ITEMS TO BE PROVIDED BY THE TEMPERATURE CONTROLS CONTRACTOR IN ORDER TO EXECUTE THIS SEQUENCE.
- B. OCCUPIED MODE:
 1. WHEN THE UNIT IS IN THE OCCUPIED MODE, THE SUPPLY FAN SHALL OPERATE INTERMITTENTLY. THE SUPPLY FAN SHALL DELIVER CONSTANT AIRFLOW. COOLING VALVE AND HEATING VALVE (WHERE APPLICABLE) SHALL MODULATE IN SEQUENCE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 2. UNITS ARE INTENDED TO REMAIN IN OCCUPIED MODE 24 HOURS PER DAY, 7 DAYS PER WEEK, YEAR-ROUND.
- C. UNOCCUPIED MODE:
 1. WHEN THE UNIT ENTERS UNOCCUPIED MODE THE SUPPLY FAN SHALL BE OFF. COOLING CONTROL VALVE SHALL CLOSE, AND HEATING CONTROL VALVE SHALL CLOSE.
- D. FAN SAFETY CONTROLS:
 1. DE-ENERGIZE THE SUPPLY FAN WHENEVER THE OVERFLOW SENSOR HAS TRIPPED. MANUAL RESET REQUIRED.
- E. SMOKE DETECTION SHUTDOWN:
 1. UNITS 2,000 CFM AND LARGER. WHEN SMOKE IS DETECTED AT THE RETURN AIR INLET, THE SUPPLY FAN SHALL BE DE-ENERGIZED, THE COOLING SHALL BE DISABLED, AND HEATING SHALL BE DISABLED.
- F. HEATING CONTROL:
 1. THE HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT. HEATING CONTROL VALVE SHALL CLOSE IF THE FANS ARE OFF.
- G. COOLING CONTROL:
 1. THE COOLING CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE COOLING SETPOINT. COOLING CONTROL VALVE SHALL CLOSE IF THE FANS ARE OFF.



A HYDRONIC CABINET UNIT HEATER/HYDRONIC UNIT HEATER CONTROL
NONE

- A. THERMOSTAT SHALL CYCLE FAN & OPEN HEATING WATER VALVE TO MAINTAIN SPACE SETPOINT.
- B. WHERE REMOTE MOUNTED THERMOSTAT IS INDICATED, PROVIDE CONTROL TRANSFORMER AND LOW VOLTAGE THERMOSTAT BY TEMPERATURE CONTROLS CONTRACTOR.

CONTROL LEGEND

ABBR DESCRIPTION	ABBR DESCRIPTION	ABBR DESCRIPTION
AI ANALOG INPUT	FR FREEZE/STAT	PHC PREHEAT COIL
AO ANALOG OUTPUT	FRN FURNACE	PT PRESSURE TRANSMITTER
BDD BACKDRAFT DAMPER	FS FLOW SWITCH	PZ PIEZOMETER RING
BTU BTU METER	FSC FRESH AIR SMOKE CONTROL PANEL	RA RETURN AIR
C CONTROLLER	FSPD FAN SPEED	RF RETURN FAN
CC COOLING COIL	FT FLOW TRANSMITTER	S SPACE TEMPERATURE SENSOR
CD CONTROL DAMPER	H HUMIDITY OR HIGH	S/S START/STOP
CFM AIRFLOW MEASURING SENSOR	HC HEATING COIL	SA SUPPLY AIR
CHR CHILLED WATER RETURN	HL HIGH/LOW	SC SPEED CONTROL
CHS CHILLED WATER SUPPLY	HH HIGH LIMIT HUMIDITY SWITCH	SD SMOKE DETECTOR
CO2 CARBON DIOXIDE	HS HUMIDITY SENSOR	SF SUPPLY FAN
COND CONDENSATE OVERFLOW	HT HUMIDITY TRANSMITTER	SPT STATIC PRESSURE TRANSMITTER
COV CHANGE OF VALUE	HWR HOT WATER RETURN	SR SWITCHING RELAY
CSEN CURRENT SENSOR	HWS HOT WATER SUPPLY	T THERMOSTAT
DI DIGITAL INPUT	IR INTERLOCK RELAY	TM THERMAL MASS METER
DO DIGITAL OUTPUT	L LEVEL OR LOW	TO TIMED OVERRIDE SWITCH
DP DIFFERENTIAL PRESSURE	LAN LOCAL AREA NETWORK CONNECTION	TS TEMPERATURE SENSOR
EA EXHAUST AIR	M MOTORIZED CONTROL VALVE	TT TEMPERATURE TRANSMITTER
ES END SWITCH	MIN MINIMUM	TTAB TEMPERATURE TRANSMITTER WAVERAGING BULB
F FILTER ASSEMBLY OR FAIL	ND NITROGEN DIOXIDE	V VALVE
FACP FIRE ALARM CONTROL PANEL	OA OUTSIDE AIR	VFD VARIABLE FREQUENCY DRIVE
FAS FIRE ALARM SYSTEM	OS OCCUPANCY SENSOR	VP VIRTUAL POINT
FCU FAN COIL UNIT	P SPACE STATIC PRESSURE	VS VELOCITY SENSOR
FM FLOW METER	P-E PNEUMATIC ELECTRIC SWITCH	WBT WET BULB TEMPERATURE TRANSMITTER

CONTROL SYSTEM GENERAL NOTES:

- DESIGN INTENT:**
 - A. THE CONTROL DRAWINGS AND SEQUENCES ARE PROVIDED TO COMMUNICATE A DESIGN INTENT FOR CONTROL OF INDICATED SYSTEMS. ALTERNATIVE CONTROL METHODS MAY BE USED WHERE PRACTICAL OR WHERE NECESSARY TO MEET REQUIRED SYSTEM PERFORMANCE. WHERE ALTERNATIVE CONTROL METHODS ARE USED TO MEET THE DESIGN INTENT, THESE METHODS SHALL BE INDICATED IN SUBMITTAL TO ENGINEER FOR EVALUATION. ENGINEER SHALL DETERMINE IF A SUBMITTED ALTERNATIVE CONTROL METHOD MEETS THE DESIGN INTENT.
 - B. ALTHOUGH THE MECHANICAL DRAWINGS MAY INDICATE A PRODUCT AS BASIS OF DESIGN, THE CONTROL DRAWINGS AND SEQUENCES ARE PROVIDED TO INDICATE A DESIGN INTENT FOR THE COMPLETE SYSTEM THAT IS APPLICABLE TO MULTIPLE POTENTIAL PRODUCTS OR MANUFACTURERS. CONTROL METHODS SHALL BE DEVELOPED BY THE TEMPERATURE CONTROLS CONTRACTOR AND/OR EQUIPMENT PROVIDER IN ORDER TO ACHIEVE THE REQUIRED SYSTEM PERFORMANCE.
- REQUIRED COORDINATION:**
 - A. THE DIVISION 23 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN EQUIPMENT PROVIDERS AND TEMPERATURE CONTROLS CONTRACTOR IN ORDER TO FULLY SATISFY THE DESIGN INTENT. INTERFACE BETWEEN CONTROL SYSTEMS, INCLUDING ITEMS PROVIDED BY EACH ENTITY, COMMUNICATION PROTOCOL, SIGNAL TYPE, ETC., SHALL BE COORDINATED PRIOR TO RELEASE OF EQUIPMENT FOR PRODUCTION.
 - B. THE TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS AND PRODUCT DATA FOR THE ENTIRE CONTROL SYSTEM TO ENGINEER FOR REVIEW. THE TEMPERATURE CONTROLS SUBMITTAL SHALL DISTINGUISH WHERE SPECIFIC SEQUENCE ELEMENTS ARE PROVIDED WITHIN THE BOILER PLANT CONTROL SYSTEM OR WITHIN PACKAGED EQUIPMENT CONTROLLERS. RE: SPECIFICATIONS FOR REQUIREMENTS.
 - C. REFER TO SPECIFICATION SECTION 23 05 01 MECHANICAL AND ELECTRICAL COORDINATION.

SEQUENCE OF OPERATION GENERAL NOTES:

- GENERAL:**
 - A. PROVIDE INDIVIDUAL INPUTS OR OUTPUTS FOR EACH POINT LISTED IN THE POINTS LIST OR CONTROL DIAGRAM. PROVIDE ANY ADDITIONAL POINTS NOT LISTED IN THE POINTS LIST OR CONTROL DIAGRAM, BUT REQUIRED TO MEET THE SEQUENCE OF OPERATION, AT NO ADDITIONAL COST TO THE OWNER. ALL ANALOG OUTPUTS SHALL BE 4-20MA, 0-10VDC OR 0-20VDC UNLESS OTHERWISE INDICATED.
 - B. IN THE EVENT OF A POWER OUTAGE OR OTHER MALFUNCTION, THE CURRENTLY ENABLED CONTROLS SEQUENCES SHALL BE MAINTAINED. RE: SPECIFICATIONS.

INITIAL SPACE THERMOSTAT SETPOINTS

- A. INITIAL SPACE THERMOSTAT SETPOINTS SHALL BE AS FOLLOWS:
 1. MECHANICAL AND ELECTRICAL ROOMS:
 - COOLING: 80F
 - HEATING: 65F
 2. MISCELLANEOUS HEATING-ONLY AREAS:
 - HEATING: 65F

MISCELLANEOUS NON-DDC CONTROL:

- A. CHEMICAL TREATMENT: PROVIDE REQUIRED FIELD WIRING INTERLOCKS.
- B. MISCELLANEOUS PUMPS: PUMPS SHALL OPERATE PER SCHEDULE AND DRAWINGS.

MISCELLANEOUS DDC CONTROL:

- A. AUTOMATED INTERFACE: PROVIDE WEB-BASED INTERFACE FOR REMOTE ACCESS TO THE BOILER PLANT CONTROL SYSTEM. INTERFACE SHALL BE PASSWORD PROTECTED AND SHALL ALLOW FOR FULL CONTROL OF ALL BOILER PLANT CONTROL SYSTEM FUNCTIONALITY.
- B. PUMPS SHALL OPERATE PER OTHER APPLICABLE CONTROL SECTIONS. BOILER PLANT CONTROL SYSTEM SHALL MONITOR ALL PUMPS INCLUDING GLYCOL FEED PUMPS.

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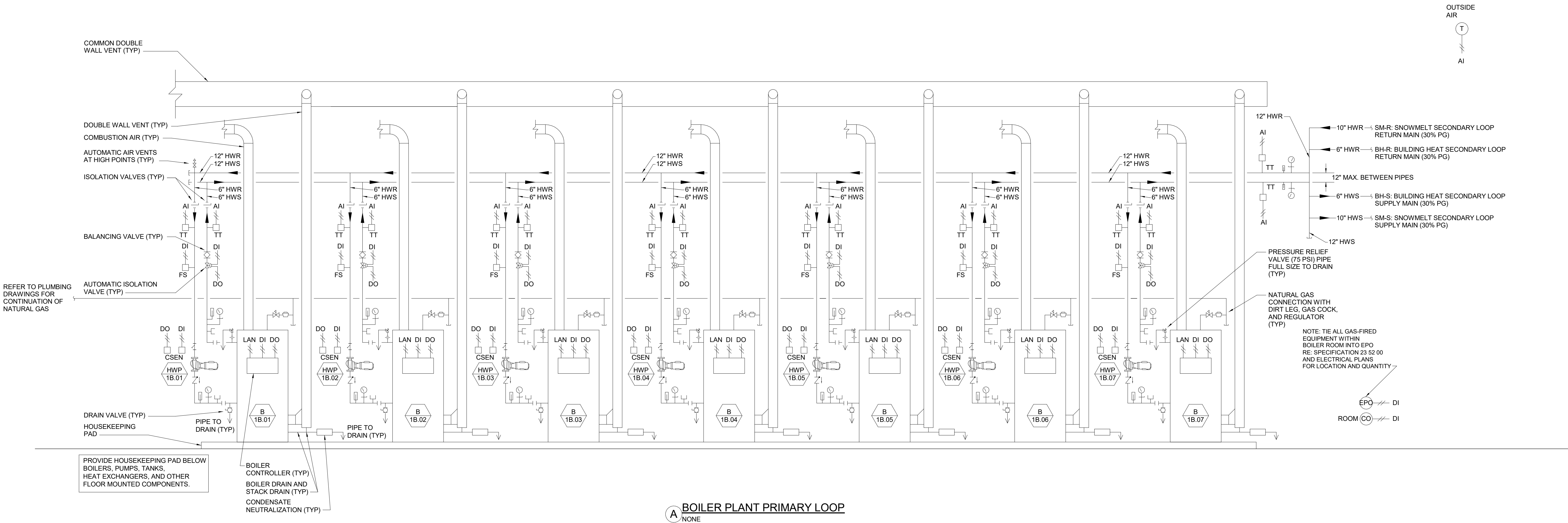
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Description
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BOILER PLANT PRIMARY LOOP
A NONE

BOILER PLANT SEQUENCE:

- A. GENERAL
 1. REFER TO DIVISION 23 52 00 FOR REQUIREMENTS.
 2. THE PROMENADE BUILDING BMS SHALL BE EXTENDED TO THE GOLD WALK SCOPE OF WORK TO PROVIDE MONITORING AND CONTROL OF THE BOILER PLANT. BMS INDICATED IN THE SEQUENCE BELOW REFERS TO THE PROMENADE BUILDING BMS. REFER TO PROMENADE BUILDING DRAWINGS AND SPECIFICATIONS. THE BMS SHALL INDEPENDENTLY MONITOR POINTS INDICATED ON THE CONTROL DIAGRAM AND ALL POINTS REQUIRED TO PERFORM THE FOLLOWING SEQUENCES AND MONITORING FUNCTIONS.
 3. THE BMS SHALL BE PROVIDED WITH A CUSTOM APPLICATION CONTROLLER LOCATED WITHIN THE BOILER ROOM.
- B. SEQUENCE OF OPERATION:
 1. INTENT: THE BMS SHALL CONTROL ALL COMPONENTS IN THE PRIMARY LOOP, SNOWMELT LOOP, AND BUILDING HEAT LOOP INCLUDING BOILERS, PRIMARY PUMPS, CONTROL VALVES, SECONDARY PUMPS, AND PLANT CONTROLS. THE BMS SHALL PERFORM ALL TEMPERATURE SETPOINT AND SCHEDULING FUNCTIONS. THE LEAD BOILER CONTROLLER SHALL CONTROL ALL BOILERS, PRIMARY PUMPS, AND BOILER ISOLATION VALVES AND SHALL PROVIDE ALL SAFETY INTERLOCKS. THE SYSTEM SHALL BE CONFIGURED TO ALLOW BOILERS TO SWITCH OPERATION FROM LEAD BOILER TO FOLLOW BOILER PERIODICALLY OR BY COMMAND AT EITHER THE BOILER CONTROLLERS OR THE BMS. EACH INDIVIDUAL BOILER CONTROLLER SHALL PERFORM ALL INTERNAL BOILER TEMPERATURE CONTROL FUNCTIONS AND BOILER SAFETY FUNCTIONS. EACH BOILER CONTROLLER SHALL COMMUNICATE WITH THE BMS VIA A SERIAL COMMUNICATION INTERFACE. THE BMS SHALL RECEIVE GENERAL BOILER ALARMS AND SHALL BE CAPABLE OF ALARM CALLOUT VIA EMAIL AND TEXT MESSAGE.
 2. START SEQUENCE: THE HEATING PLANT SHALL START IN RESPONSE TO AN OUTSIDE AIR TEMPERATURE OF 65F (ADJ.) OR SIGNAL TO ENABLE AT THE BMS. UPON SIGNAL TO ENABLE, THE BMS AND PARENT BOILER CONTROLLER SHALL:
 - A. ENABLE THE SNOWMELT SECONDARY LOOP VARIABLE SPEED PUMPING SYSTEM.
 - B. ENABLE THE BUILDING HEATING SECONDARY LOOP VARIABLE SPEED PUMPING SYSTEM.
 - C. OPEN THE LEAD BOILER ISOLATION VALVE AND PROVE OPEN.
 - D. START THE LEAD HEATING HOT WATER PRIMARY PUMP AND PROVE VIA FLOW SWITCH.
 - E. OPEN THE LEAD BOILER FLUE VENT DAMPER AND ENERGIZE LEAD BOILER DRAFT FAN.
 - F. START THE LEAD BOILER AFTER WATER FLOW AND AIRFLOW HAVE BEEN PROVEN.
 - G. BUILDING HEATING SECONDARY PUMPING LOOP: START THE LEAD SECONDARY HEATING HOT WATER PUMP AND MODULATE PUMP VFD TO MAINTAIN SYSTEM DIFFERENTIAL PRESSURE SETPOINT. WHEN THE SIGNAL TO THE OPERATING PUMP(S) EXCEEDS 95% FOR 2 MINUTES (ADJ.) AND SYSTEM DIFFERENTIAL PRESSURE SETPOINT IS NOT SATISFIED, THE LAG SECONDARY PUMP SHALL BE STARTED AND SLOWLY RAMPED UP TO MATCH THE SPEED OF THE OPERATING PUMP. OPERATING SECONDARY PUMP VFD'S SHALL MODULATE IN PARALLEL AT EQUAL SPEED TO MAINTAIN THE OUTLET TEMPERATURE SETPOINT ON THE 50% PROPYLENE GLYCOL SIDE OF THE PLATE HEAT EXCHANGER. WHEN THE SIGNAL TO THE OPERATING PUMP(S) EXCEEDS 95% FOR 2 MINUTES (ADJ.) AND OUTLET TEMPERATURE SETPOINT IS NOT SATISFIED, THE NEXT SNOWMELT SECONDARY PUMP SHALL BE STARTED AND SLOWLY RAMPED UP TO MATCH THE SPEED OF THE OPERATING PUMP. OPERATING SNOWMELT SECONDARY PUMP VFD'S SHALL MODULATE IN PARALLEL AT EQUAL SPEED TO MAINTAIN PLATE HEAT EXCHANGER OUTLET TEMPERATURE SETPOINT. WHEN ALL OPERATING SECONDARY PUMP VFD'S HAVE BEEN AT OR BELOW 40% SPEED FOR 2 MINUTES (ADJ.), DE-ENERGIZE ONE PUMP AND MODULATE REMAINING OPERATING PUMP(S) TO MAINTAIN OUTLET TEMPERATURE SETPOINT. WHEN ONLY ONE PUMP IS OPERATING AT MINIMUM SPEED AND OUTLET TEMPERATURE IS ABOVE SETPOINT, THE LEAD PUMP SHALL CYCLE OFF AND ON AT MINIMUM SPEED TO MAINTAIN OUTLET TEMPERATURE. WHEN CALL FOR HEATING IN THE SNOWMELT SYSTEM HAS BEEN REMOVED (VIA SNOWMELT SENSOR, OUTSIDE AIR TEMPERATURE, MANUAL COMMAND, OR HOUR-BY-HOUR SCHEDULE) ALL SNOWMELT SECONDARY PUMPS SHALL BE DE-ENERGIZED. LEAD PUMP AND LAG PUMPS SHALL ROTATE WEEKLY, EVERY MONDAY AT 11:00AM. PUMP ROTATION SHALL BE UTILIZED TO EQUALIZE RUN TIME BETWEEN ALL PUMPS.
 3. STOP SEQUENCE: THE HEATING PLANT SHALL STOP IN RESPONSE TO AN OUTSIDE AIR TEMPERATURE 5 DEGREES F ABOVE START TEMPERATURE (ADJ.) OR UPON SIGNAL TO DISABLE AT THE BMS. UPON SIGNAL TO DISABLE, THE BMS AND LEAD BOILER CONTROLLER SHALL:
 - A. DISABLE ALL BOILERS VIA SIGNAL TO THE LEAD BOILER CONTROLLER.
 - B. CONFIRM ALL BOILERS HAVE STOPPED VIA COMMUNICATION INTERFACE WITH THE LEAD BOILER CONTROLLER.
 - C. DISABLE ALL PRIMARY HEATING HOT WATER PUMPS AND CLOSE ISOLATION VALVES AFTER A 60 SECOND (ADJ.) DELAY.
 - D. DISABLE ALL SECONDARY LOOP PUMPS.
 - E. HEATING HOT WATER PLANT SHALL NOT BE RESTARTED FOR A FIVE MINUTE DELAY (ADJ.).
 4. TEMPERATURE CONTROL: UPON SUCCESSFUL STARTUP, THE LEAD BOILER CONTROLLER SHALL MAINTAIN LEAVING WATER TEMPERATURE FROM EACH OPERATING BOILER AT 150 DEGREES F (ADJ.) MAXIMUM. DO NOT INCREASE LEAVING WATER TEMPERATURE SETPOINT ABOVE 150 DEGREES F IN ORDER TO AVOID RISK OF DAMAGE TO THE SNOWMELT SYSTEM. ALARM THE BMS WITH EMAIL AND TEXT MESSAGE TO FACILITIES STAFF IF PRIMARY LOOP SUPPLY WATER TEMPERATURE SETPOINT IS RAISED ABOVE 150 DEGREES F OR IF MEASURED PRIMARY LOOP SUPPLY WATER TEMPERATURE RISES ABOVE 155F FOR 5 MINUTES (ADJ.).
 5. SECONDARY PUMP FAILURE: UPON FAILURE OF ONE OF THE SECONDARY PUMPS, RESET SEQUENCE TO START LAG PUMP (IF NOT ALREADY RUNNING) AND GENERATE AN APPROPRIATE ALARM AT THE BMS.
 6. BOILER FAILURE: UPON SENSING A BOILER FAILURE, THE BMS OR PARENT BOILER CONTROLLER SHALL INITIATE THE STOP SEQUENCE FOR THE FAILED BOILER ONLY AND LOCKOUT THAT BOILER. THE BMS OR PARENT BOILER CONTROLLER SHALL IMMEDIATELY INITIATE THE START SEQUENCE OF AN ADDITIONAL BOILER (IF NOT ALREADY OPERATING).
 7. PRIMARY PUMP FAILURE: UPON SENSING A PUMP FAILURE, THE BMS OR PARENT BOILER CONTROLLER SHALL LOCKOUT AND ALARM THE FAILED PUMP. IMMEDIATELY, THE BMS OR PARENT BOILER CONTROLLER SHALL INITIATE THE STOP SEQUENCE FOR THE ASSOCIATED BOILER AND INITIATE THE START SEQUENCE OF AN ADDITIONAL BOILER (IF NOT ALREADY OPERATING).
 8. BOILER ROTATION: AUTOMATIC ROTATION OF BOILER OPERATION SHALL EQUALIZE BOILER RUNTIME. ROTATION SHALL BE INITIATED BY THE FOLLOWING OPERATOR SELECTABLE METHODS:
 - A. REAL TIME: BASED ON DAY INTERVALS.
 - B. RUN TIME: ACTUAL BOILER RUN TIMES.
 - C. MANUAL OR FORCED.
 9. COMMUNICATION FAILURE: UPON A LOSS OF SIGNAL FROM THE PARENT BOILER CONTROLLER, THE BMS SHALL MAINTAIN CURRENT VALVE POSITIONS, TEMPERATURE SETPOINTS, PRIMARY PUMP OPERATION, AND SECONDARY PUMP OPERATION AND SHALL GENERATE AN APPROPRIATE ALARM AT THE BMS. ALL ISOLATION VALVES, PRIMARY PUMPS, AND SECONDARY PUMPS SHALL BE INDEPENDENTLY CONTROLLABLE AT THE BMS OPERATOR STATION.
 10. BOILER PLANT STATUS DISPLAY - THE BMS SHALL PROVIDE A PLANT STATUS REPORT. THE DISPLAY SHALL INCLUDE THE FOLLOWING:
 - A. ON/OFF STATUS OF EACH BOILER.
 - B. ON/OFF STATUS AND SPEED OF EACH PRIMARY AND SECONDARY PUMP.
 - C. BUILDING HEATING SECONDARY LOOP DIFFERENTIAL PRESSURE AND SETPOINT.
 - D. BUILDING HEATING SECONDARY LOOP BYPASS VALVE POSITION.
 - E. BUILDING HEATING SECONDARY EWT AND LWT DOWNSTREAM OF SECONDARY LOOP BYPASS VALVE (PLANT ENTERING/LEAVING CONDITIONS TO THE SYSTEM).
 - F. SNOWMELT HEAT EXCHANGER EWT AND LWT ON BOTH THE 30% PG AND 50% PG SIDES OF THE HEAT EXCHANGER.
 - G. PRIMARY LOOP SUPPLY AND RETURN WATER TEMPERATURES.
 - H. TOTAL BUILDING HEAT MBH CONSUMPTION.
 - I. TOTAL SNOWMELT SYSTEM MBH CONSUMPTION.

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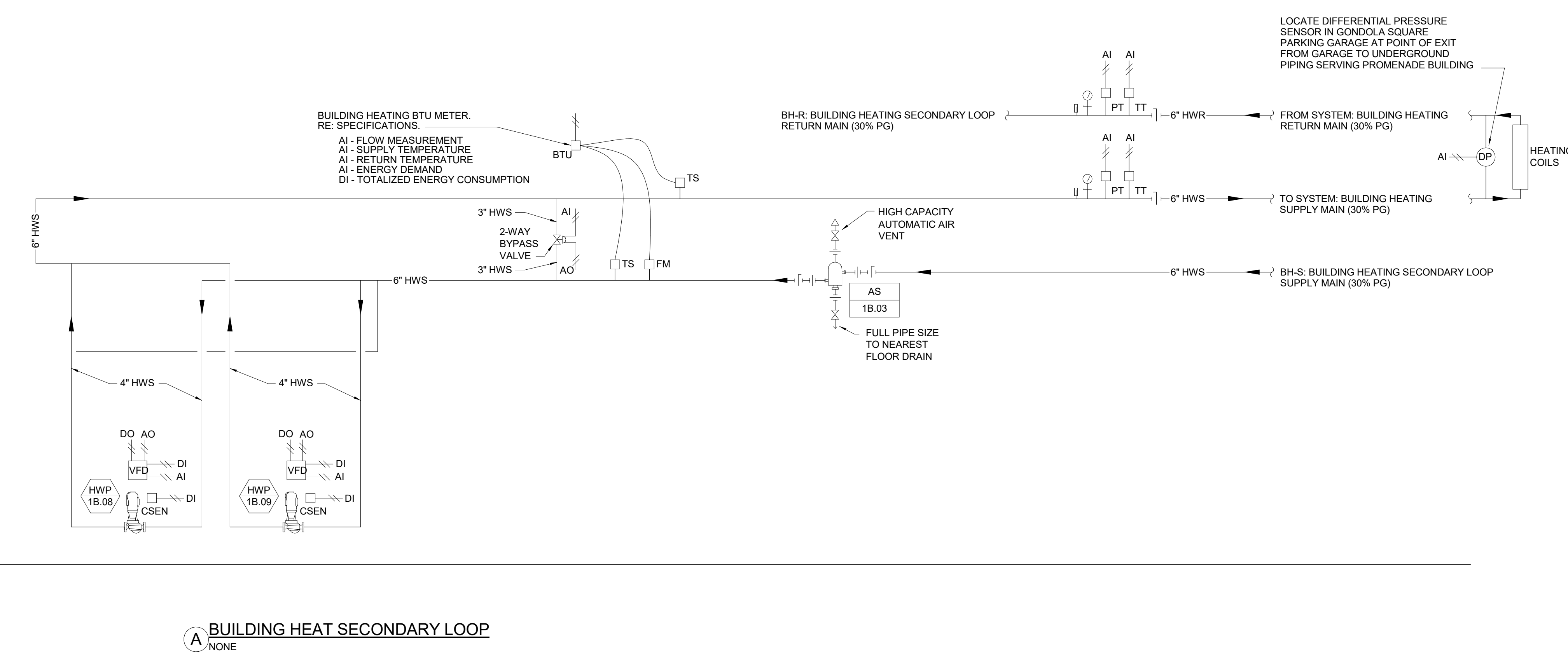
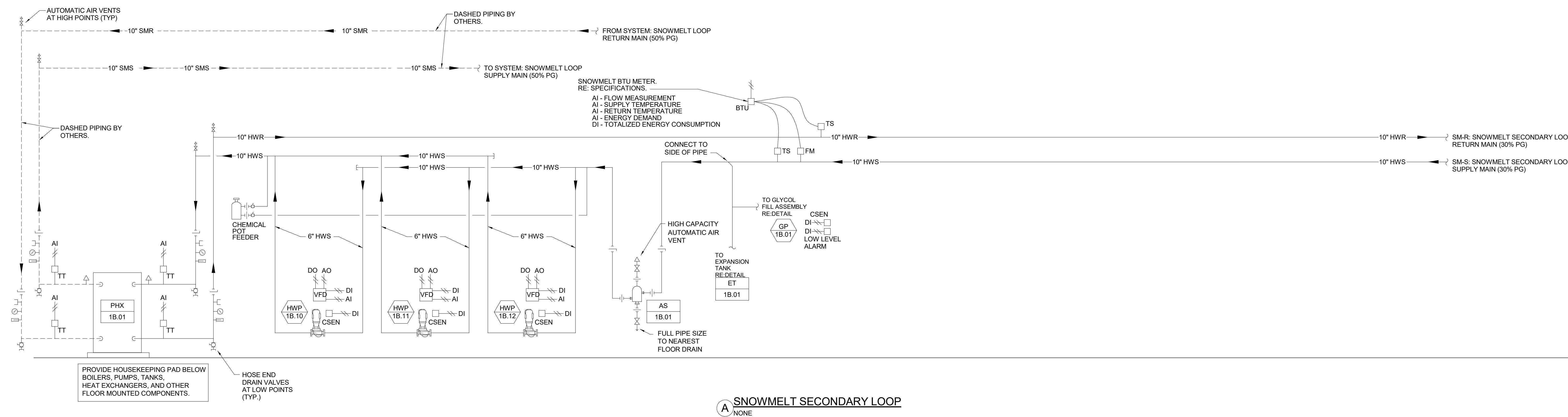
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Project Number
003.7835.000

Description
GOLD WALK - MECHANICAL CONTROLS

Scale
1/8" = 1'-0"

1B-M7.002



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Description

GOLD WALK - MECHANICAL
 CONTROLS

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1B-M7.003

ENERGY METER SCHEDULE/POINTS LIST

SYSTEM: ENERGY METERING SYSTEM													
POINT DESCRIPTION	TYPE	LOAD CATEGORY	ENERGY DEMAND				ENERGY CONSUMPTION				REMARKS		
			UNIT	HOURLY PEAK	DAILY PEAK	MONTHLY PEAK	ANNUAL PEAK	UNIT	HOURLY TOTAL	DAILY TOTAL		MONTHLY TOTAL	ANNUAL TOTAL
PANEL BRH - MECHANICAL LOADS	E	MECH	kWh	X	X	X	X	kWh	X	X	X	X	OBTAIN PANEL LOAD BY DEDUCTING PANEL BRL METERED USAGE FROM PANEL BRH METERED USAGE.
PANEL BRL - MECHANICAL LOADS	E	MECH	kWh	X	X	X	X	kWh	X	X	X	X	PANEL BRH AND GWH DATA DERIVED VIA SINGLE CONNECTION TO E-GAUGE METER. RE: ONE-LINE.
BRL BRANCH CIRCUIT METERING	E	PLUG	kWh	X	X	X	X	kWh	X	X	X	X	OBTAIN PANEL LOAD BY DEDUCTING PANEL BRL METERED BRANCH CIRCUIT USAGE FROM PANEL BRL
PANEL GWH - PLUG LOADS	E	PLUG	kWh	X	X	X	X	kWh	X	X	X	X	OBTAIN PANEL LOAD BY DEDUCTING PANEL GWL METERED BRANCH CIRCUIT USAGE FROM PANEL GWH.
PANEL GWL - PLUG LOADS	E	PLUG	kWh	X	X	X	X	kWh	X	X	X	X	PANEL BRH AND GWH DATA DERIVED VIA SINGLE CONNECTION TO E-GAUGE METER. RE: ONE-LINE.
GWL BRANCH CIRCUIT METERING	E	PLUG	kWh	X	X	X	X	kWh	X	X	X	X	OBTAIN PANEL LOAD BY DEDUCTING PANEL GWL METERED BRANCH CIRCUIT USAGE FROM PANEL GWL
BUILDING HVAC/PLUMBING	VIR		kWh	X	X	X	X	kWh	X	X	X	X	OBTAIN BY ADDING ALL BUILDING MECH METERS. DO NOT DOUBLE COUNT SUB-METERS.
BUILDING PLUG LOAD	VIR		kWh	X	X	X	X	kWh	X	X	X	X	OBTAIN BY ADDING ALL BUILDING PLUG LOAD METERS. DO NOT DOUBLE COUNT SUB-METERS.
BOILER PLANT BTU METER	BTU	MECH	TONS	X	X	X	X	TON-HRS	X	X	X	X	
BOILER PLANT EFFICIENCY	VIR		KW/TON										SEE NOTE 10 BELOW.
NATURAL GAS SERVICE TO BOILER ROOM	NG	MECH	TH/H	X	X	X	X	THERMS	X	X	X	X	

GENERAL NOTES:

- TYPE CODES:
E: ELECTRICITY
NG: NATURAL GAS
DW: DOMESTIC WATER
BTU: BTU METER
VIR: VIRTUAL METER OBTAINED VIA ADDITION OR SUBTRACTION
- LOAD CATEGORIES:
MAIN: MAIN BUILDING METER
MECH: MECHANICAL
LTG: LIGHTING
PLB: PLUMBING
PLUG: PLUG LOAD
PROC: PROCESS
- ALL METERS SHALL RECORD AT INTERVALS OF ONE HOUR OR LESS.
- ALL METERS SHALL REPORT BOTH DEMAND (KW OR BTU/H) AND CONSUMPTION (KWH OR THERMS) UNLESS OTHERWISE NOTED.
- MAIN ELECTRICAL SERVICE ENTRANCE METERS SHALL RECORD POWER FACTOR AND REPORT HOURLY. RECORD HOURLY VALUES FOR A MINIMUM OF THREE YEARS.
- ALL METERS INDICATED SHALL HAVE DIRECT CONNECTION TO THE PROMENADE BUILDING BMS VIA SERIAL COMMUNICATION UNLESS OTHERWISE NOTED. RE: PROMENADE BUILDING DRAWINGS AND SPECIFICATIONS.
- RECORDED DATA FOR EACH METER SHALL INCLUDE HOURLY, DAILY, MONTHLY, AND ANNUAL PEAK DEMAND AND TOTAL CONSUMPTION. INFORMATION FOR EACH METER POINT INDICATED SHALL BE REPORTED AT THE BMS OPERATOR STATION IN CALENDAR FORMAT. DATA SHALL BE STORED FOR A MINIMUM OF THREE YEARS.
- METERED DATA SHALL BE REMOTELY ACCESSIBLE THROUGH THE BMS.
- METERING SYSTEM SHALL BE EXPANDABLE TO INCLUDE ADDITIONAL METERS FOR SHELL AREAS INDICATED ON ARCHITECTURAL DRAWINGS.
- REPORT HOURLY BOILER PLANT HEATING EFFICIENCY PERCENTAGE USING 1 HOUR MEASUREMENT OF TOTAL HEATING ENERGY PRODUCED (THERMS) DIVIDED BY SAME 1 HOUR MEASUREMENT OF TOTAL ENERGY CONSUMED (THERMS). REPORT MONTHLY MAXIMUM AND MINIMUM BOILER PLANT EFFICIENCY. DATA SHALL BE STORED FOR A MINIMUM OF THREE YEARS.
- WHERE METERED CATEGORY VIRTUAL POINTS ARE INDICATED, DO NOT DOUBLE COUNT SUB-METERS. FOR METERS IN SERIES, COUNT ONLY THE UPSTREAM METER IN THE CATEGORY TOTAL.



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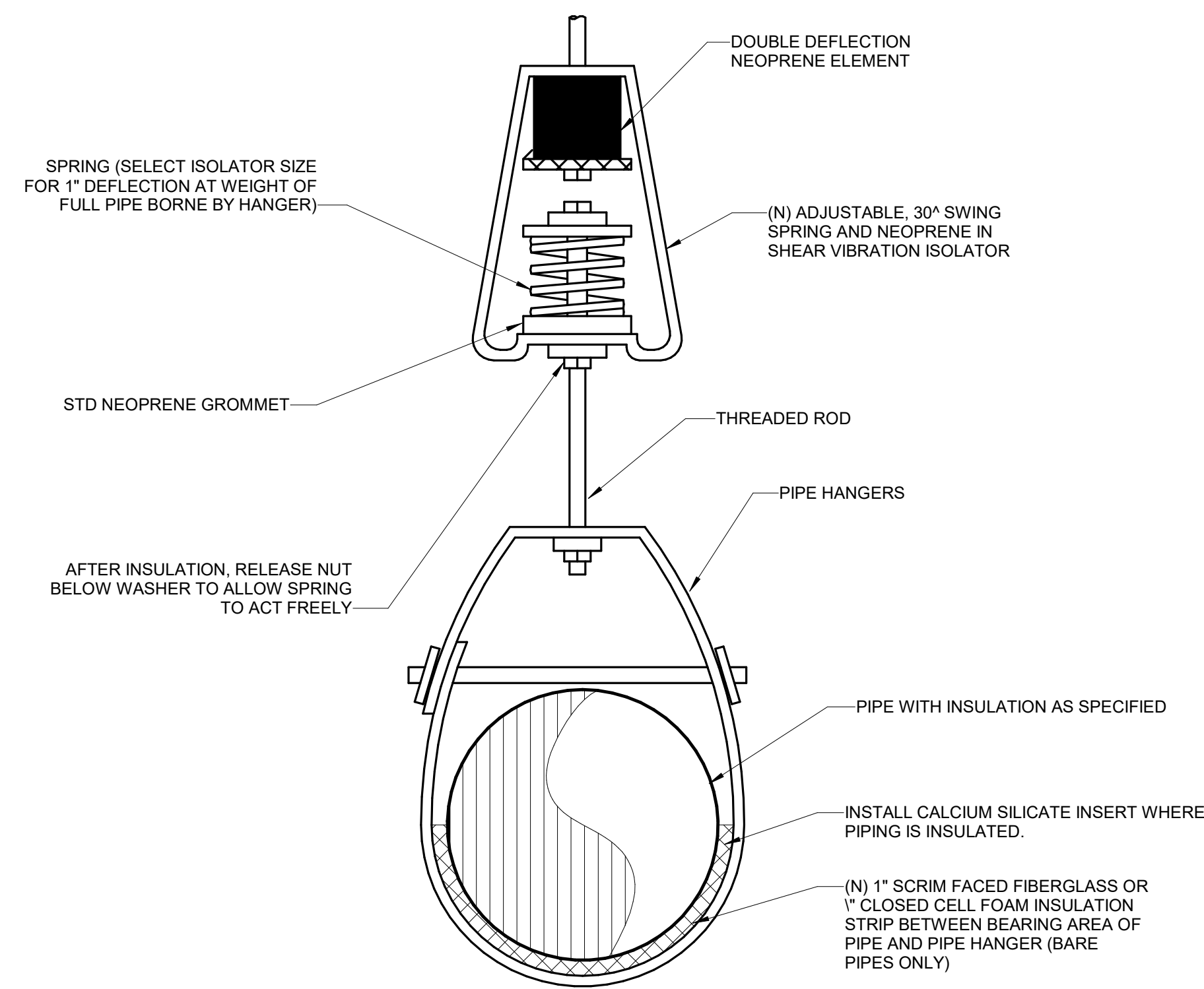
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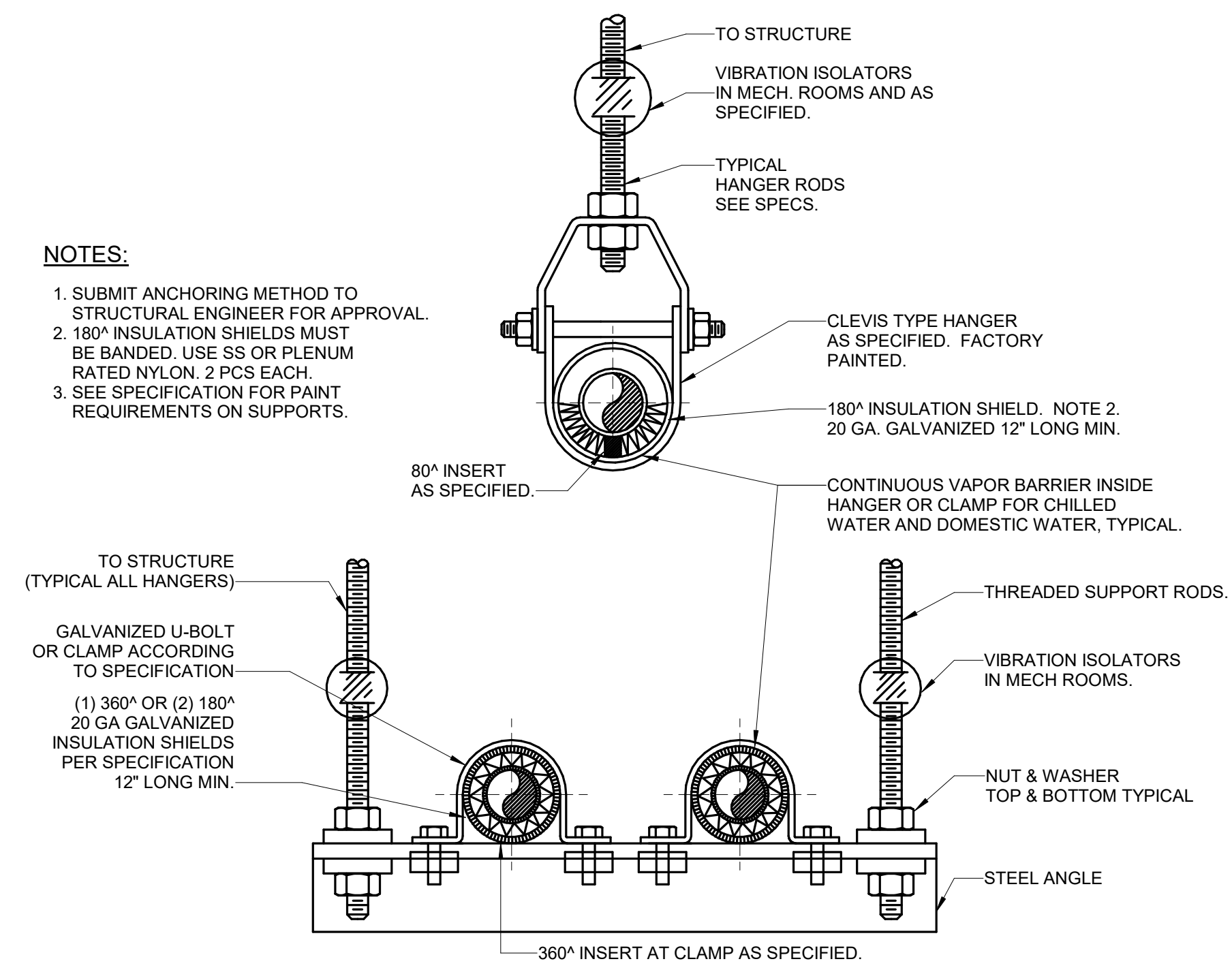
**GOLD WALK - MECHANICAL
CONTROLS**

Scale

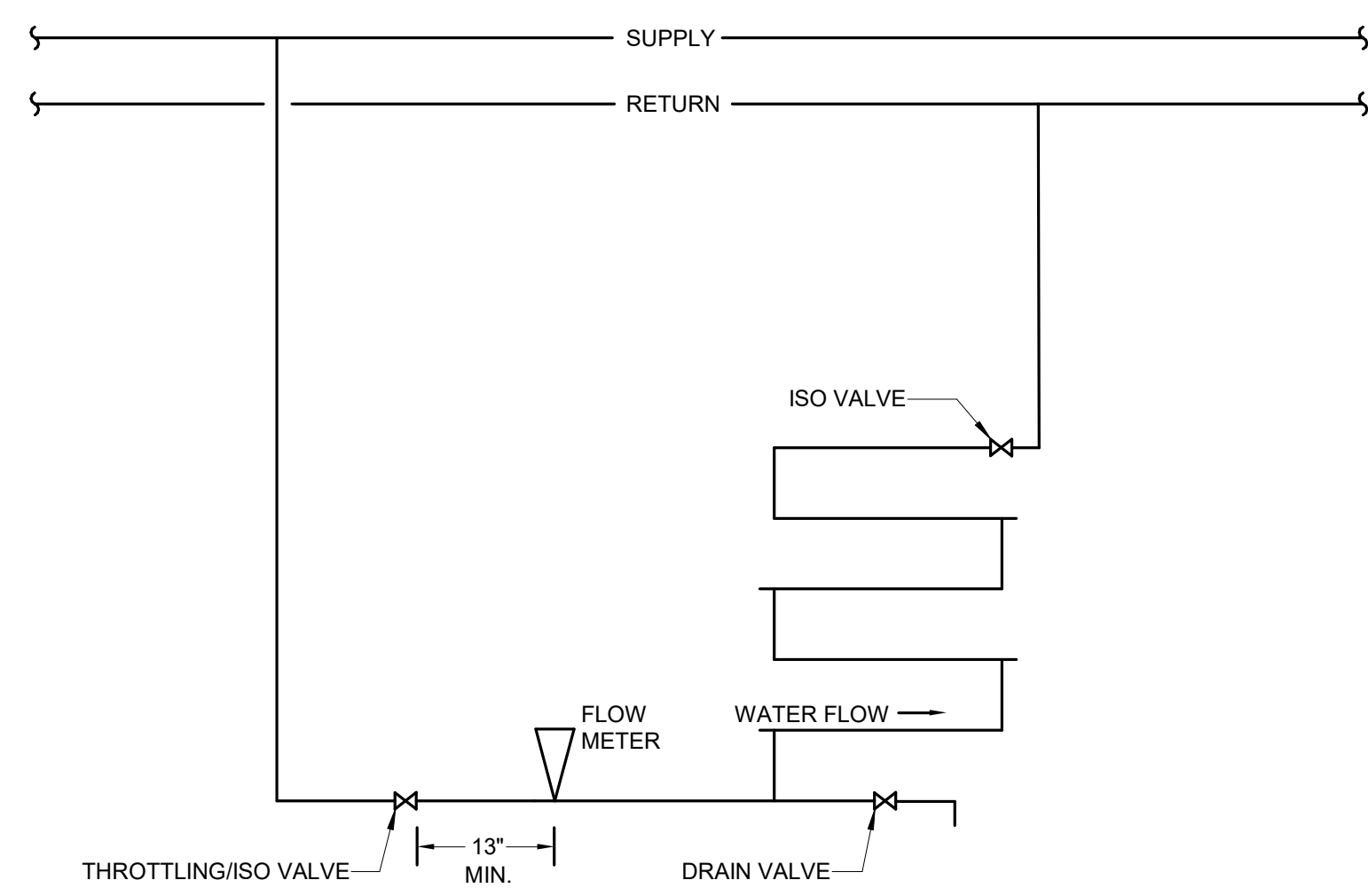
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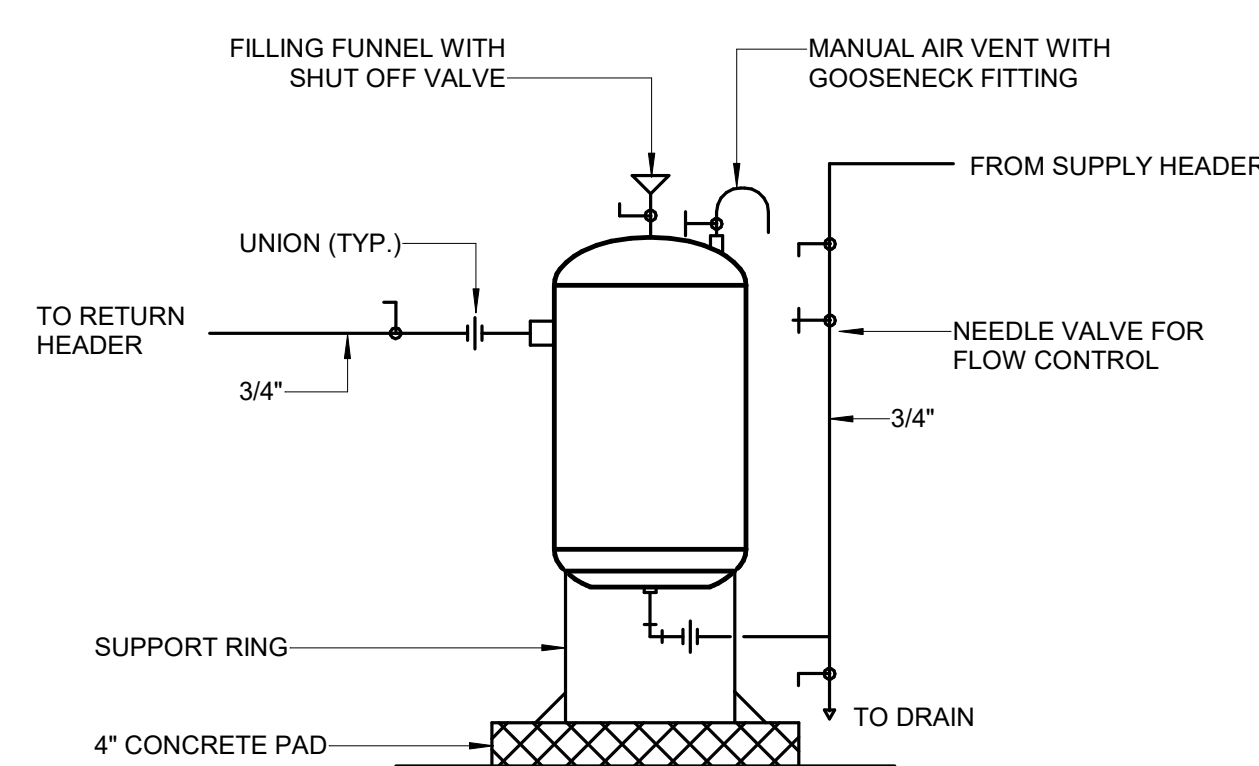
9 VIBRATION ISOLATION HANGER DETAIL 1
NO SCALE



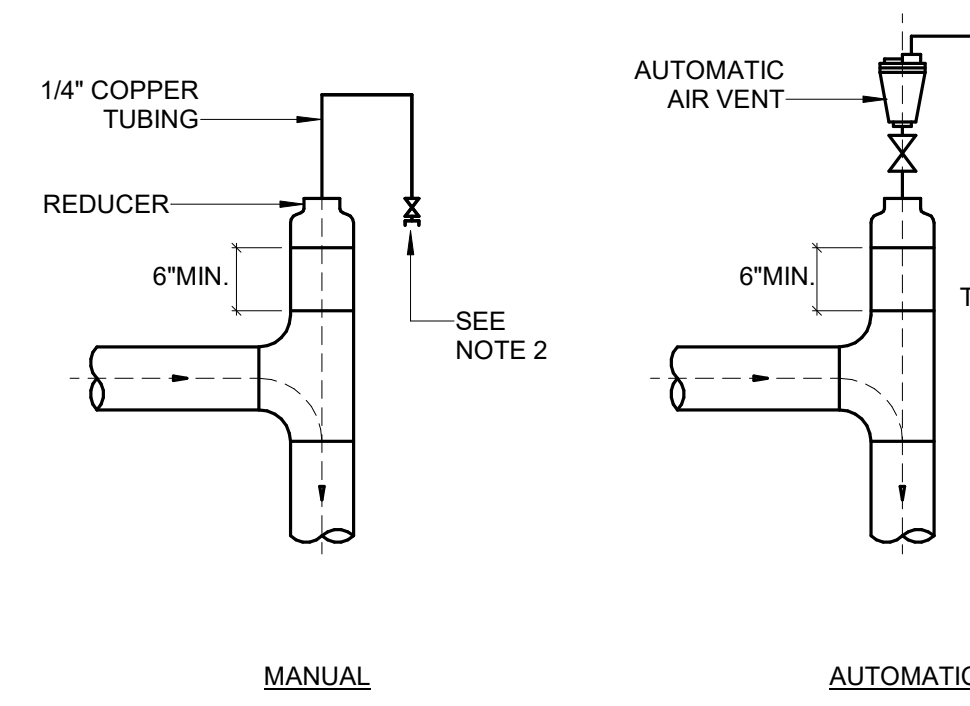
10 TYPICAL PIPE HANGER DETAIL
NO SCALE



11 CORROSION COUPON RACK
NO SCALE



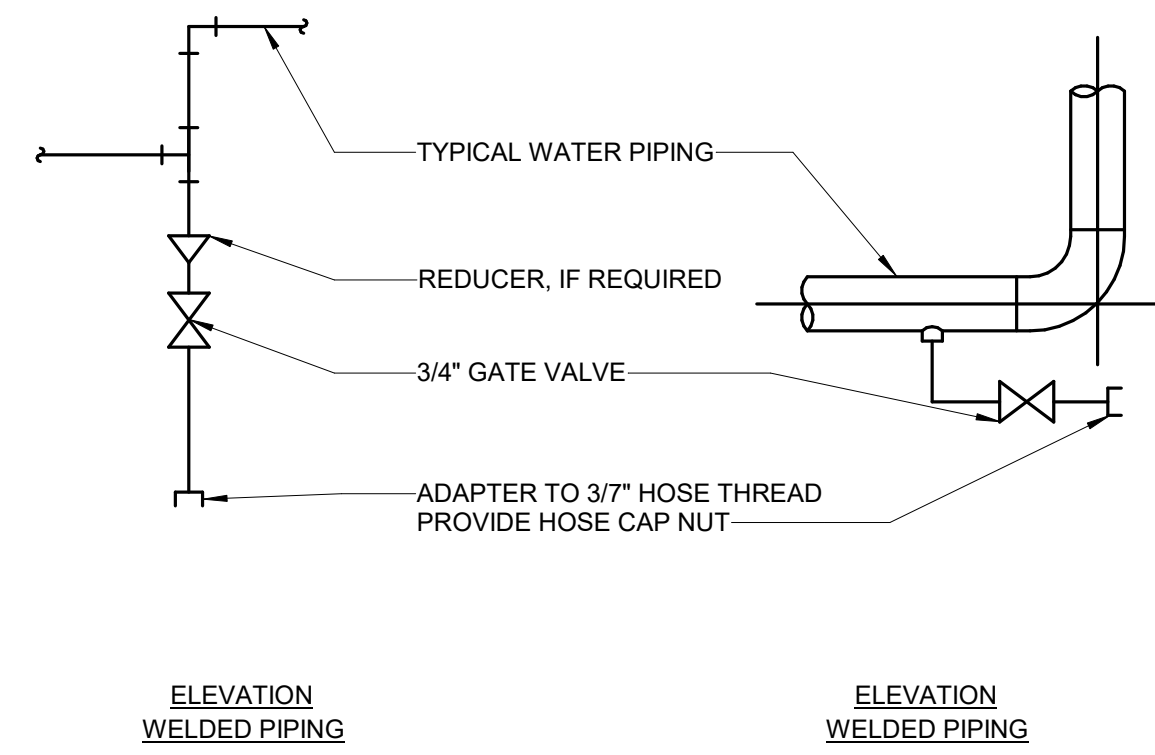
12 CHEMICAL POT FEEDER
NO SCALE



NOTE:

1. INSTALL MANUAL AIR VENT AT HIGH POINTS WHERE FLOW CHANGES DIRECTION. INSTALL AUTOMATIC AIR VENT TO PIPING WHICH IS INSTALLED IN EXPOSED AREA INCLUDING FAN ROOM AND MECHANICAL ROOM.
2. INSTALL HOSE VALVE ABOVE CEILING IN AN ACCESSIBLE LOCATION.
3. WELDED PIPE FITTING SHOWN, SCREWED FITTING SIMILAR.

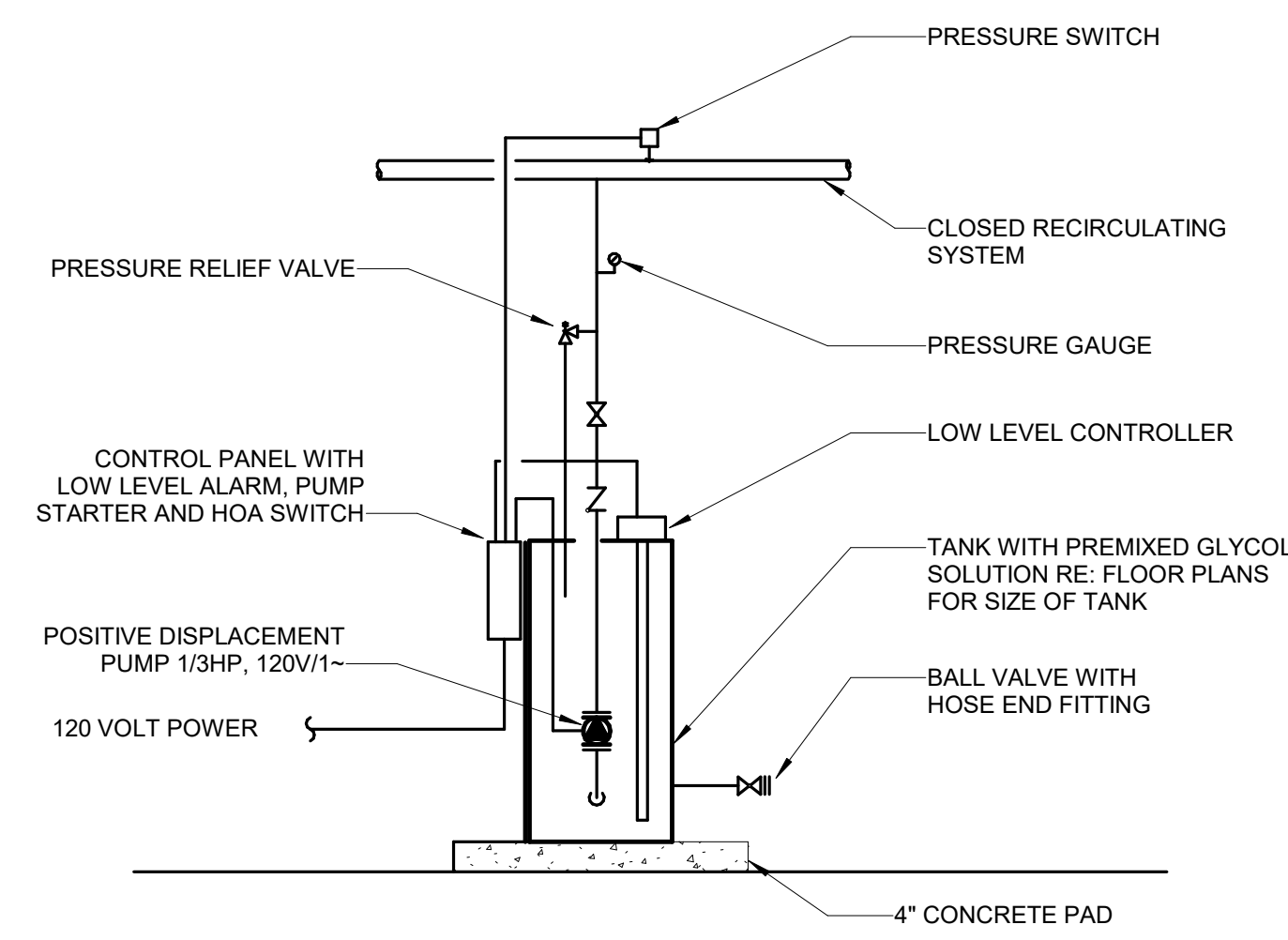
5 AIR VENT DETAIL
NO SCALE



NOTES:

1. PROVIDE DRAIN VALVES AT LOW POINTS OF WATER SYSTEM.
2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS LOCATE DRAIN AT BOTTOM OF SCALE POCKET.

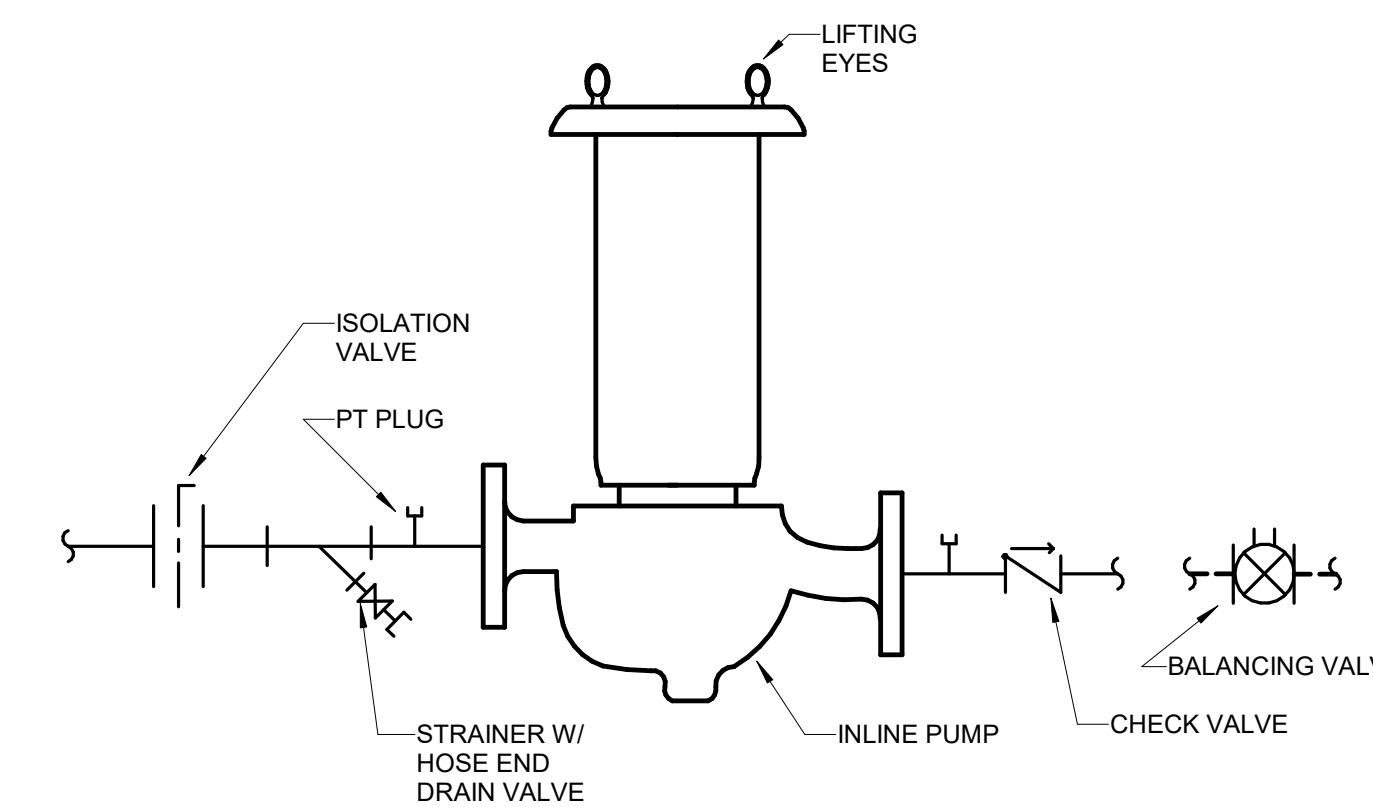
6 DRAIN VALVE CONNECTION DETAIL
NO SCALE



NOTE:

1. GLYCOL FEEDER SHALL BE A PACKAGED SYSTEM PROVIDED BY THE WATER TREATMENT SUPPLIER.

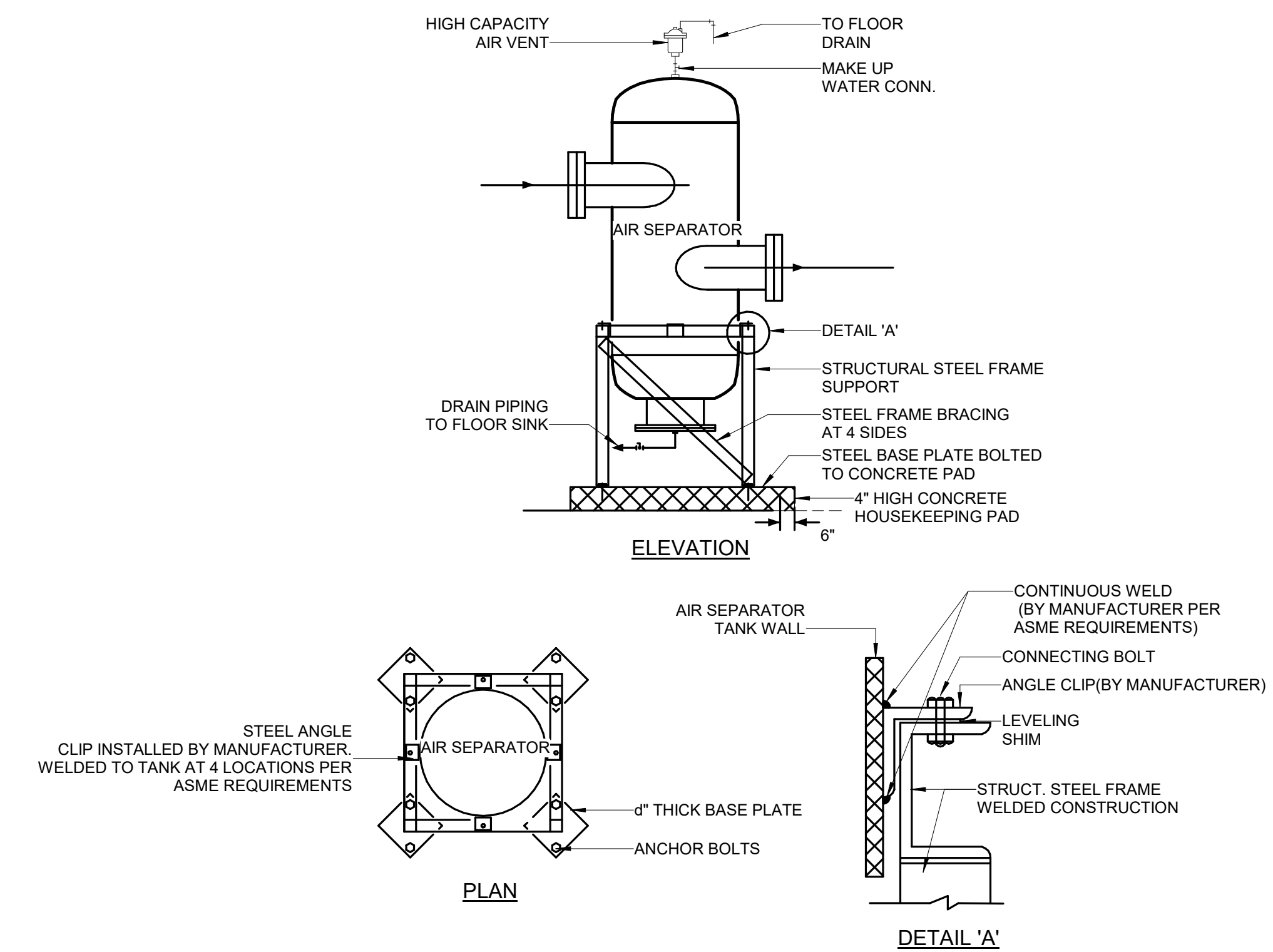
7 GLYCOL FEED ASSEMBLY DETAIL
NO SCALE



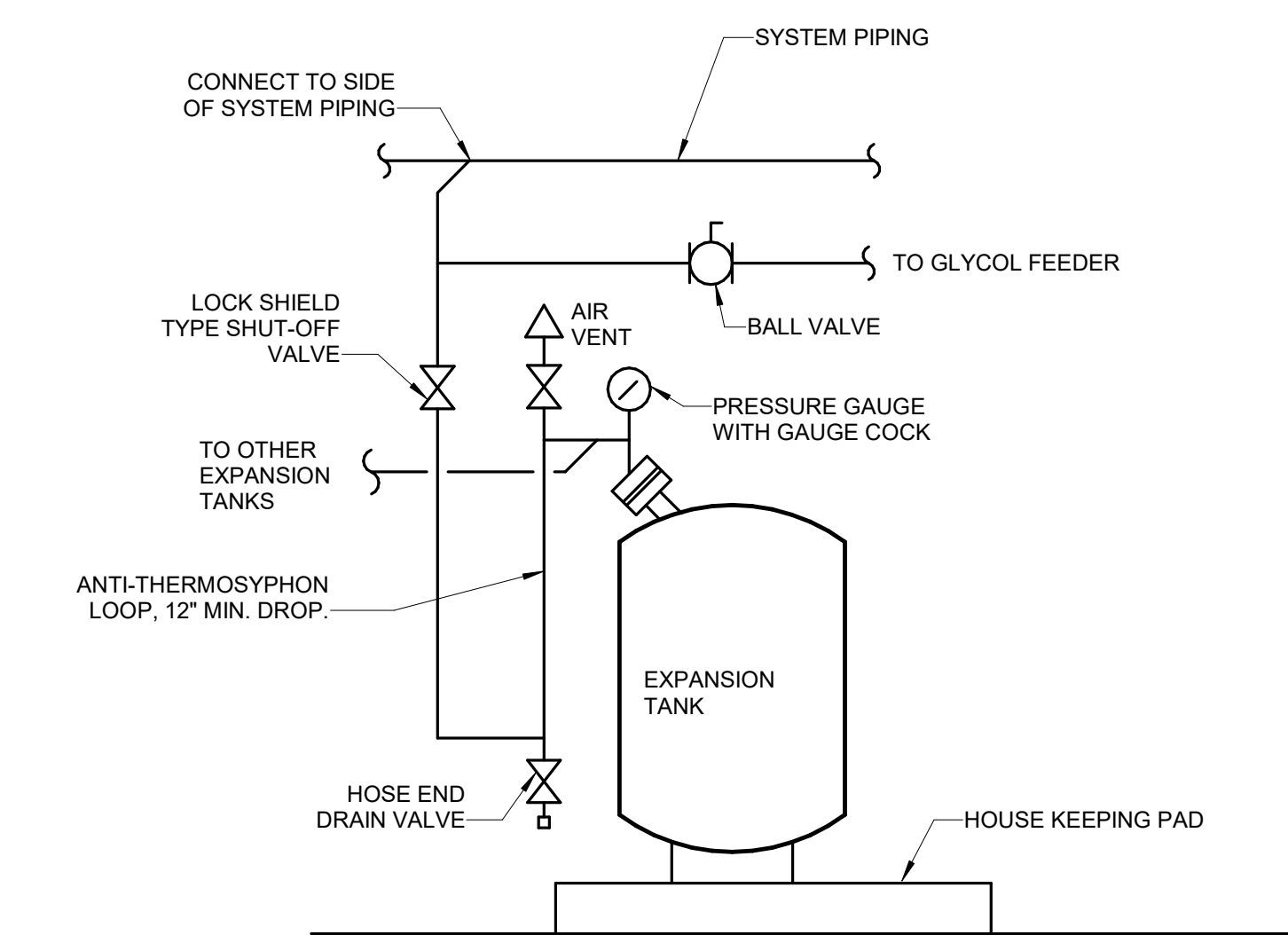
NOTE:

1. PROVIDE ANGLE IRON OR UNISTRUCT SUPPORTS FROM FLOOR FOR ALL INLINE PUMPS 7 HP & LARGER. SMALLER PUMPS MAY BE SUPPORTED FROM STRUCTURE ABOVE. PUMPS MUST BE SUPPORTED WITH VIBRATION ISOLATORS.
2. BALANCING VALVE LOCATED ON OPPOSITE SIDE OF BOILER FROM PRIMARY PUMPS. INSTALL BALANCING VALVE PER CONFIGURATION INDICATED ON BOILER DIAGRAM.

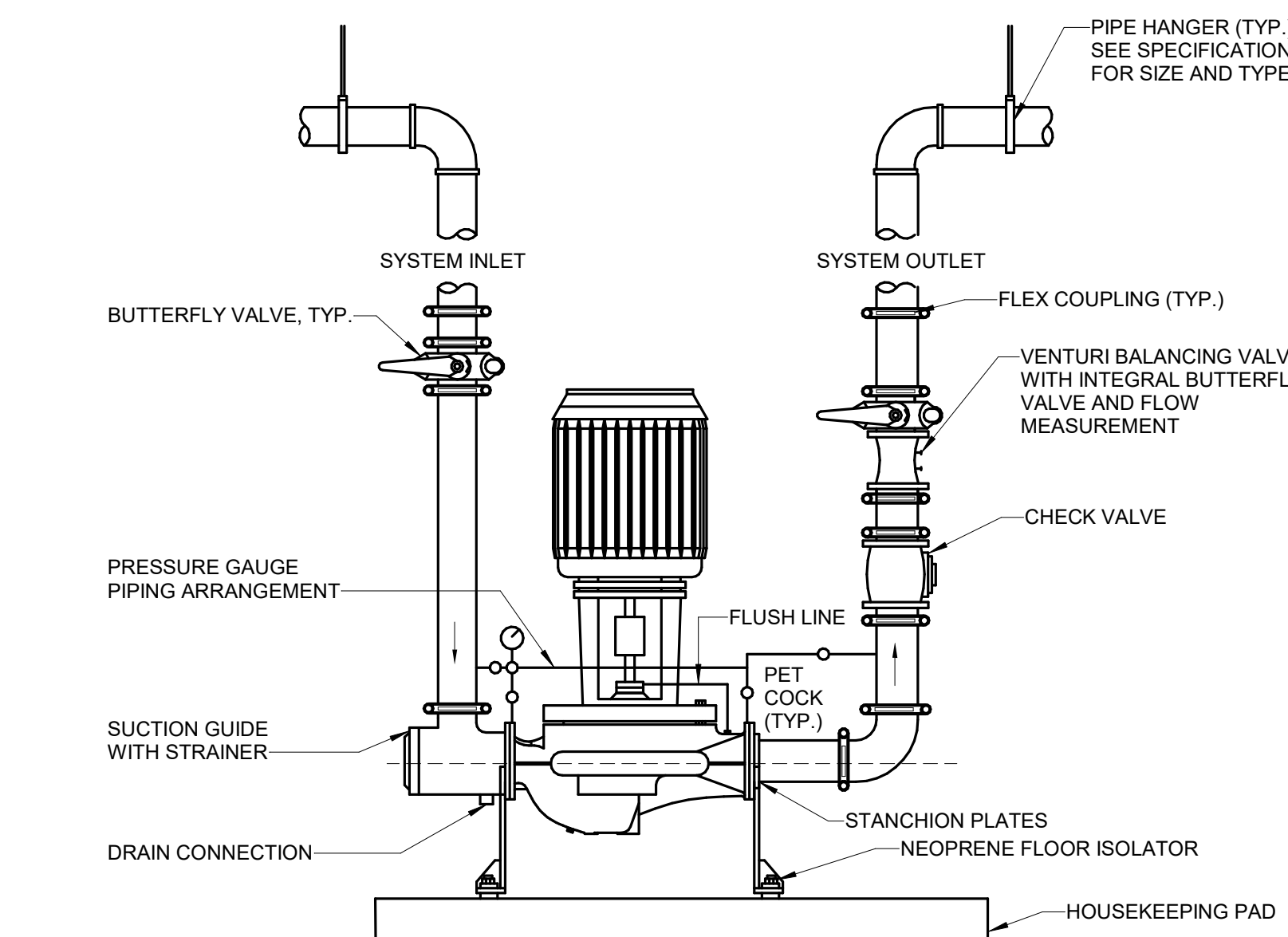
8 INLINE PRIMARY PUMP CONNECTION DETAIL
1/8" = 1'-0"



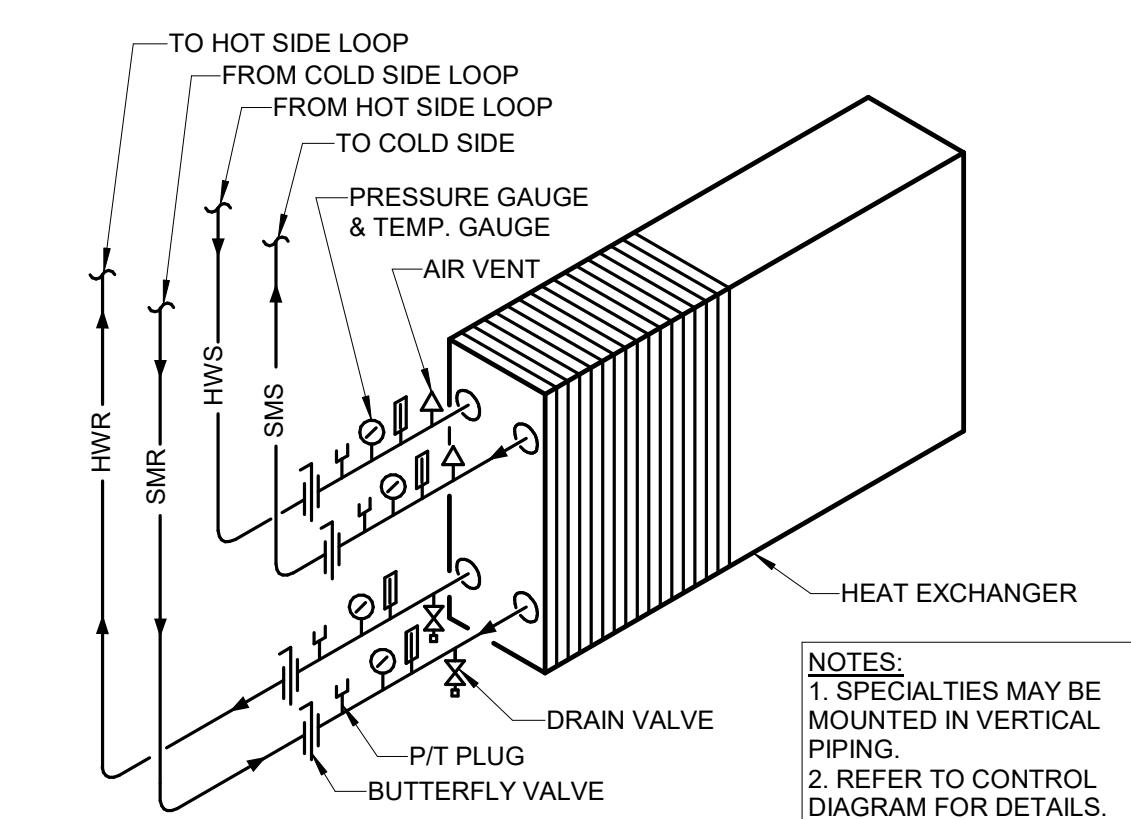
1 AIR SEPARATOR MOUNTING 1
NO SCALE



2 EXPANSION TANK DETAIL
NO SCALE



3 INLINE PUMP DETAIL - 5HP AND LARGER
NO SCALE



- NOTES:
1. SPECIAL TIES MAY BE MOUNTED IN VERTICAL PIPING.
 2. REFER TO CONTROL DIAGRAM FOR DETAILS.

4 PLATE TYPE HEAT EXCHANGER DETAIL 1
NO SCALE

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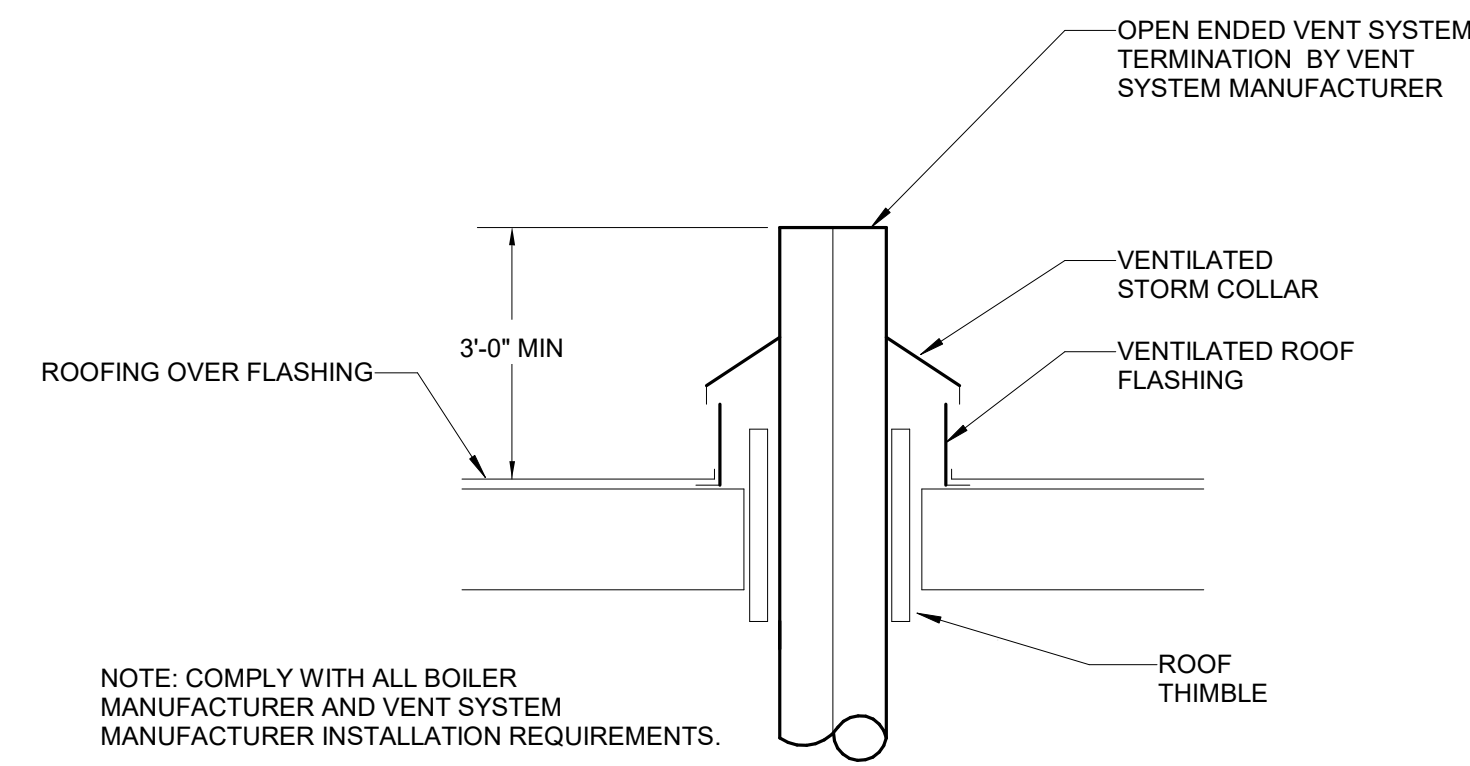
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GOLD WALK - MECHANICAL DETAILS

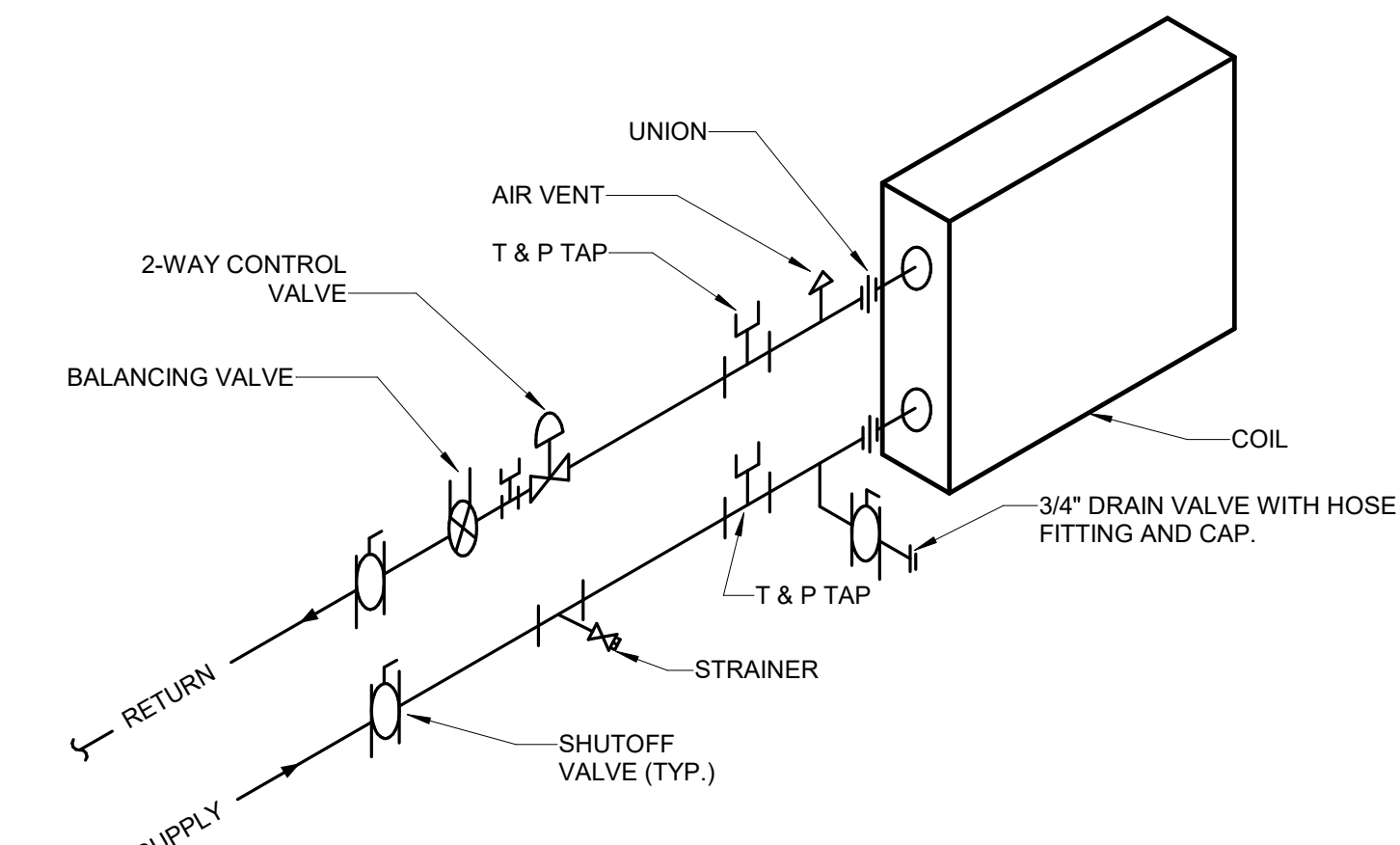
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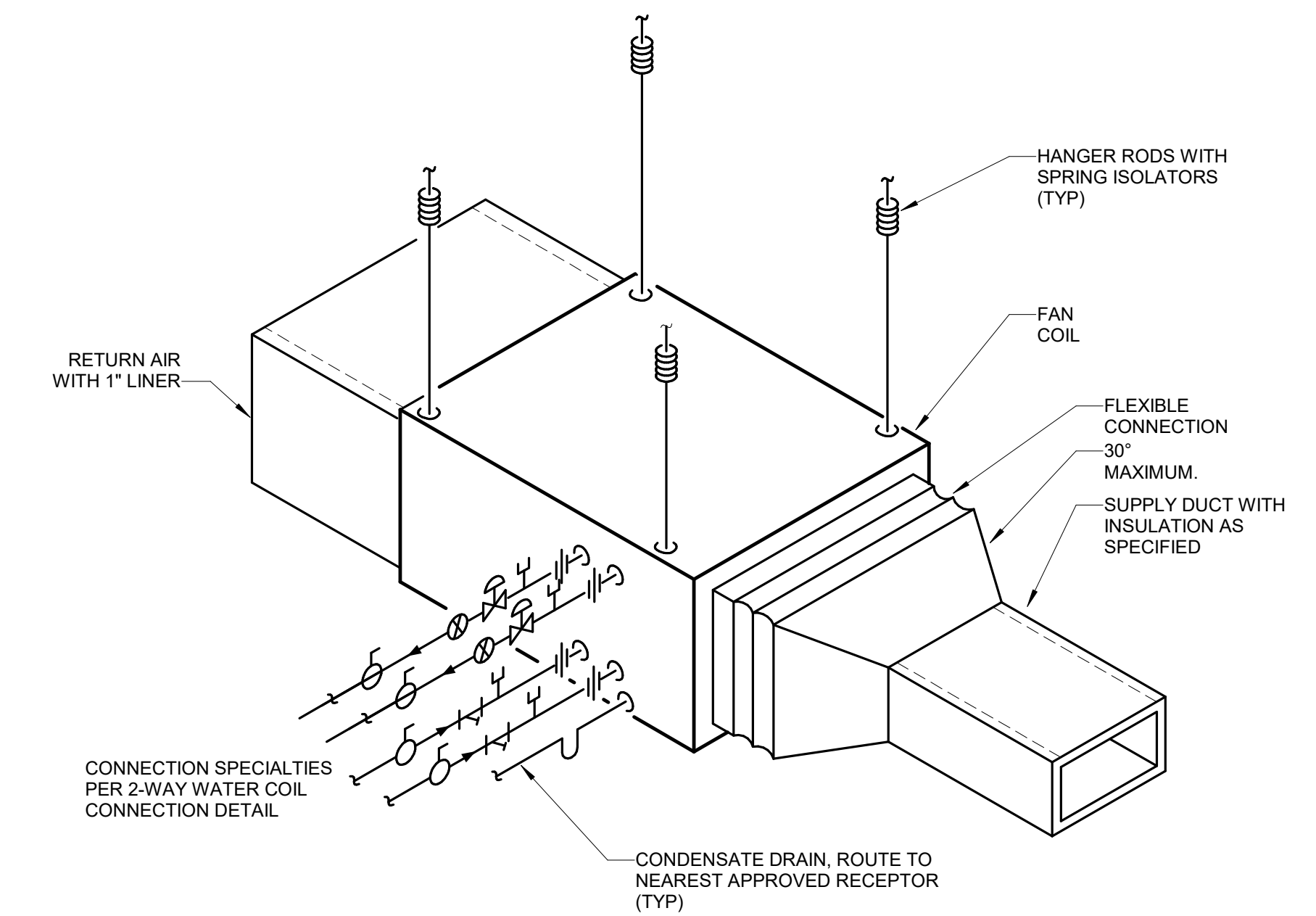
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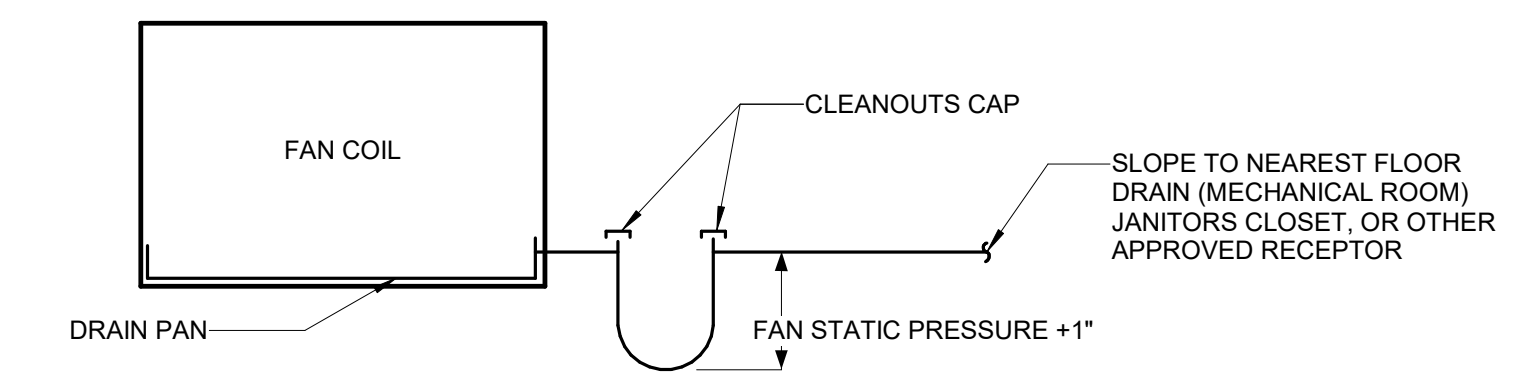
6 BOILER STACK DETAIL
NO SCALE



1 TYPICAL WATER COIL CONNECTION DETAIL (2 WAY CONTROL)
NO SCALE

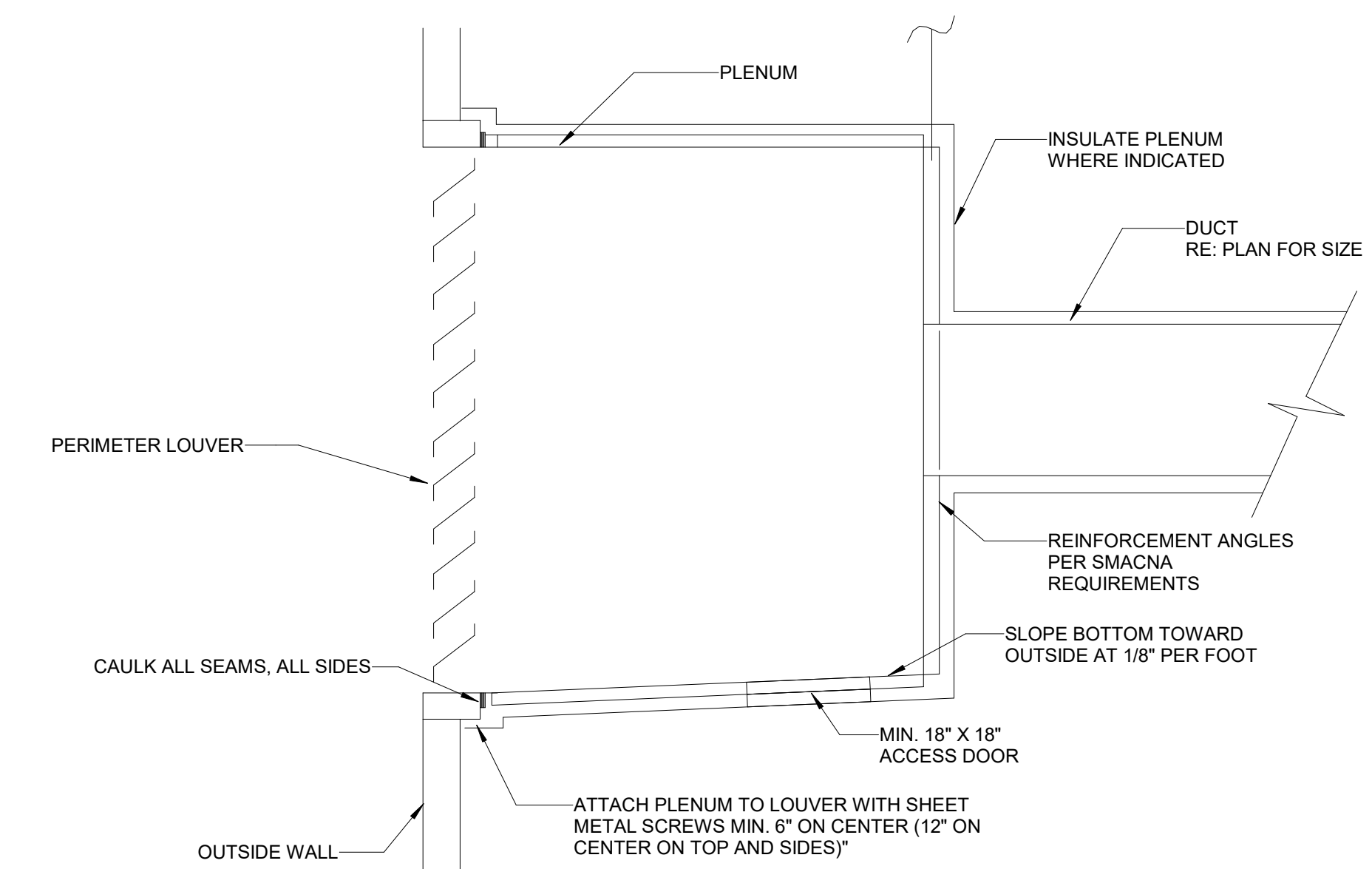


2 FAN COIL DETAIL
NO SCALE



NOTE:
1. INSULATE CONDENSATE DRAIN WHEN ABOVE CEILINGS.

3 FAN COIL UNIT CONDENSATE DRAIN DETAIL
NO SCALE



4 EXTERIOR LOUVER PLENUM BOX DETAIL
NO SCALE

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GOLD WALK - MECHANICAL DETAILS

Scale

NO SCALE

1B-M8.001

EXPANSION TANK													
CODE (ET)	MANUFACTURER/ MODEL NO.	SERVICE	DESIGN PARAMETERS			OPERATING PARAMETERS			CONFIG.	TYPE	MIN. ACCEPT. (GAL)	PRECHARGE (PSIG)	REMARKS
			SYSTEM VOLUME	MIN. TEMPERATURE (F)	MAX. TEMPERATURE (F)	MIN. PRESSURE (PSIG)	MAX. PRESSURE (PSIG)						
1B.01	TACO/CA800-125	HEATING HOT WATER	3.000	40	160	25	67.5	VERTICAL	B	211.0	25.0	A	

GENERAL NOTES:
1. TYPE: B=FULL ACCEPTANCE BLADDER.
2. LOCATE GLYCOL FEEDER CONNECTION AT EXPANSION TANK CONNECTION TO HYDRONIC SYSTEM. REFER TO DETAIL.
3. PROVIDE MAKEUP WATER WITH FILL PRESSURE NO HIGER THAN 25 PSIG.
4. PROVIDE PRESSURE RELIEF VALVE SET AT 75 PSIG.

REMARK NOTES:
A. FLUID CONTAINS 30% PROPYLENE GLYCOL.

AIR SEPARATOR									
CODE (AS)	SERVICE	DESIGN PARAMETERS			DIMENSIONS		WEIGHT (LBS)	REMARKS	
		SYSTEM FLOW (GPM)	PIPE SIZE (IN)	MAX PD (FT. HD.)	DIAMETER (IN.)	HEIGHT (IN.)			
1B.01	SNOWMELT SECONDARY LOOP	1,905	10"	1.5	TACO/ACT10F	30	58	2,200	A,B
1B.02	BUILDING HEAT SECONDARY LOOP	500	6"	1.5	TACO/ACT06F	20	41	800	A,C

GENERAL NOTES:
1. PROVIDE WITH INTEGRAL STRAINER. INSTALL WITH ADEQUATE CLEARANCE FOR STRAINER PULL.

REMARK NOTES:
A. FLUID CONTAINS 30% PROPYLENE GLYCOL.
B. PROVIDE WITH FLOOR STAND SUPPORT.
C. SUSPEND FROM STRUCTURE.

BOILER SCHEDULE (HYDRONIC)													
CODE (B)	MANUFACTURER/ MODEL NO.	INPUT (MBH) (S.L.)	OUTPUT (MBH) (ALT.)	GPM	WPD (FT)	ELECTRICAL						WEIGHT (LBS)	REMARKS
						VOLT	PH	FLA	FUSE	DISCON.	FEEDER		
1B.01	LOCHINVAR/CREST FB-5001	5,000	4,314	455	14	480	3	5	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	6,000	
1B.02	LOCHINVAR/CREST FB-5001	5,000	4,314	455	14	480	3	5	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	6,000	
1B.03	LOCHINVAR/CREST FB-5001	5,000	4,314	455	14	480	3	5	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	6,000	
1B.04	LOCHINVAR/CREST FB-5001	5,000	4,314	455	14	480	3	5	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	6,000	
1B.05	LOCHINVAR/CREST FB-5001	5,000	4,314	455	14	480	3	5	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	6,000	
1B.06	LOCHINVAR/CREST FB-5001	5,000	4,314	455	14	480	3	5	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	6,000	
1B.07	LOCHINVAR/CREST FB-5001	5,000	4,314	455	14	480	3	5	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	6,000	

GENERAL NOTES:
1. EWT = 130 F, LWT = 150 F.
2. 30% PROPYLENE GLYCOL HEATING FLUID.
3. JOB SITE ELEVATION = 6,700 FT.
4. FUEL TYPE = NATURAL GAS.
5. COMMON VENT CONFIGURATION WITH DOUBLE WALL FIBER INSULATED STAINLESS STEEL VENTING SYSTEM AND AUTOMATED VENT DAMPERS BY VENT DUCT MANUFACTURER.
6. PROVIDE CONDENSATE NEUTRALIZATION SYSTEM WITH EACH BOILER.
7. FORCE DRAFT, LOW NOX BURNER. ADJUST TO MINIMIZE LOSS DUE TO OPERATING ELEVATION.
8. BOILER PLANT SIZED FOR N+1 REDUNDANCY WITH FULLY REDUNDANT BOILER AND ASSOCIATED PRIMARY PUMP.

PUMP SCHEDULE																
CODE	MANUFACTURER/ MODEL NO.	SERVICE	PUMP TYPE	GPM	HEAD (FT)	NPSHR (FT)	IMPELLER DIA (IN)	BHP	ELECTRICAL						FEEDER	REMARKS
									HP	VOLT	PH	FLA	FUSE	DISCON.		
HWP-1B.01	TACO/KV 5007D	PRIMARY HEATING LOOP	INLINE	455	25	7.2	6	3.48	5	460	3	8	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	C
HWP-1B.02	TACO/KV 5007D	PRIMARY HEATING LOOP	INLINE	455	25	7.2	6	3.48	5	460	3	8	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	C
HWP-1B.03	TACO/KV 5007D	PRIMARY HEATING LOOP	INLINE	455	25	7.2	6	3.48	5	460	3	8	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	C
HWP-1B.04	TACO/KV 5007D	PRIMARY HEATING LOOP	INLINE	455	25	7.2	6	3.48	5	460	3	8	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	C
HWP-1B.05	TACO/KV 5007D	PRIMARY HEATING LOOP	INLINE	455	25	7.2	6	3.48	5	460	3	8	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	C
HWP-1B.06	TACO/KV 5007D	PRIMARY HEATING LOOP	INLINE	455	25	7.2	6	3.48	5	460	3	8	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	C
HWP-1B.07	TACO/KV 5007D	PRIMARY HEATING LOOP	INLINE	455	25	7.2	6	3.48	5	460	3	8	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	C
HWP-1B.08	TACO/SKV 3009D	BUILDING SECONDARY LOOP	INLINE	250	75	6	9	6	7.5	460	3	11	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	A,B,C
HWP-1B.09	TACO/SKV 3009D	BUILDING SECONDARY LOOP	INLINE	250	75	6	9	6	7.5	460	3	11	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	A,B,C
HWP-1B.10	TACO/SKV 6007D	SNOWMELT SECONDARY LOOP	INLINE	635	40	9	7.25	7.31	10	460	3	14	20A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	A,C,F
HWP-1B.11	TACO/SKV 6007D	SNOWMELT SECONDARY LOOP	INLINE	635	40	9	7.25	7.31	10	460	3	14	20A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	A,C,F
HWP-1B.12	TACO/SKV 6007D	SNOWMELT SECONDARY LOOP	INLINE	635	40	9	7.25	7.31	10	460	3	14	20A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	A,C,F
GP-1B.01	NEPTUNE/G-50	GLYCOL FEEDER	POS. DISP.	--	--	--	--	--	0.5	120	1	10	-	CORD & PLUG	(2#12, #12G) 3/4"C	C,D

GENERAL NOTES:
1. PROVIDE MAGNETIC STARTER WITH AUXILIARY CONTACTS AND HOA SWITCH ON ALL THREE PHASE MOTORS.
2. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER NEMA STANDARD MG1-2003, TABLES 12-12 AND 12-13.
3. FOR PARALLEL PUMP APPLICATIONS MANUFACTURER SHALL REVIEW SINGLE PUMP OPERATION SUCH THAT PUMP CAN OPERATE AND NOT EXCEED THE END OPERATION POINT ON THE PUMP CURVE AND MOTOR HP IS PROPERLY SELECTED TO PREVENT OVERLOADING.
4. NPSHR AT SCHEDULED OPERATING POINT SHALL NOT EXCEED 0.8"NPSHA.
5. REFER TO DRAWINGS TO DETERMINE REQUIRED PUMP ROTATION. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING.

REMARK NOTES:
A. PROVIDE WITH VARIABLE FREQUENCY DRIVE WITH INTEGRAL OVER-CURRENT PROTECTION AND GROUND FAULT PROTECTION PER NEC 430. VARIABLE FREQUENCY DRIVE SHALL BE INTEGRAL TO THE PUMP.
B. 50% CAPACITY (PARALLEL PUMP APPLICATION).
C. FLUID CONTAINS 30% PROPYLENE GLYCOL. ALL PUMP COMPONENTS IN CONTACT WITH FLUID SHALL BE COMPATIBLE WITH GLYCOL. ADJUST STANDARD CATALOG PERFORMANCE TO ACCOUNT FOR USE OF GLYCOL.
D. ELECTRICAL CONNECTION TO 120V WALL RECEPTACLE.
E. FLUID CONTAINS 30% PROPYLENE GLYCOL.
F. 33% CAPACITY (PARALLEL PUMP APPLICATION).

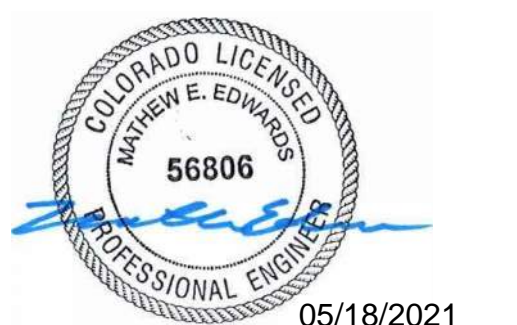
PLATE HEAT EXCHANGER SCHEDULE																
CODE (PHX)	MANUFACTURER/ MODEL NO.	TOTAL HEAT TRANSFER...	HOT SIDE				COLD SIDE				DIMENSIONS			OPERATING WEIGHT (LBS)	REMARKS	
			EWT (F)	LWT (F)	FLUID	GPM	WPD (FT)	EWT (F)	LWT (F)	FLUID	GPM	WPD (FT)	HEIGHT (IN)			WIDTH (IN)
1B.01	TACO/PF...	17,800	150	130	30% PG	1870	12.3	125	145	50% PG	1980	14.5	85	31	127	12,000

GENERAL NOTES:
1. 150 PSIG MAX OPERATING PRESSURE.

Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR PERMIT

RCRBD
Record Set
TC
06/29/2021

Seal / Signature



05/18/2021

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

GOLD WALK - MECHANICAL SCHEDULES

Scale

1B-MEP0.000

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HORIZONTAL FAN COIL SCHEDULE (HYDRONIC)																										
CODE (HFCU)	MANUFACTURER/ MODEL NO.	AREA SERVED	FAN		COOLING COIL						HEATING COIL						ELECTRICAL							REMARKS		
			SUPPLY CFM	ESP (IN.)	EAT (°F) DB WB	TOTAL MBH	SENS MBH	MAX LAT(°F)	GPM	ROW	WPD (FT)	EAT (°F)	MBH	MIN LAT(°F)	GPM	ROW	WPD (FT)	HP	VOLT	PH	FLA	DISCON.	FEEDER		FUSE	
3	ENGINEERED COMFORT/D35FHZW-24	3 TON	1800	0.3	75	62	38.7	31.1	55	8.1	5	3.6	65	31.1	85	3.5	1	6.5	1/2	120	1	11.8	\$ T.O.	(2#12, #12G) 3/4"	-	
4	ENGINEERED COMFORT/D35FHZW-30	4 TON	2300	0.3	75	62	49.5	39.8	55	10.4	5	2.3	65	40.5	85	4.6	1	3.2	1/2	120	1	12.6	\$ T.O.	(2#12, #12G) 3/4"	-	A
5	ENGINEERED COMFORT/D35FHZW-30	4 TON	2300	0.3	75	62	49.5	39.8	55	10.4	5	2.3	-	-	-	-	-	-	1/2	120	1	12.6	\$ T.O.	(2#12, #12G) 3/4"	-	A

GENERAL NOTES:
 1. CHILLED WATER: EWT = 44 F, LWT = 54 F, 30% PROPYLENE GLYCOL.
 2. HEATING WATER: EWT = 150 F, LWT = 130 F, 30% PROPYLENE GLYCOL.
 3. PROVIDE 2" MERV 8 THROW AWAY FILTERS.
 4. SCHEDULED FAN VALUES (CFM, SP AND HP) ARE ACTUAL AT ALTITUDE. MOTOR HP HAS BEEN ADJUSTED FROM SEA LEVEL CONDITIONS FOR OPERATION AT JOBSITE ELEVATION. JOB SITE ELEVATION = 6700 FT.
 5. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER MENA STANDARD MG1-2003, TABLES 12-12 AND 12-13.
 6. PROVIDE CONDENSATE PUMP POWERED FROM EQUIPMENT. PUMP SHALL BE PROVIDED WITH VOLTAGE MATCHING FAN COIL UNIT. IF TRANSFORMER IS PROVIDED FOR CONDENSATE PUMP OPERATION, PROVIDE LINE ITEM COST. GRAVITY DRAINAGE ACCEPTABLE WHERE POSSIBLE.
 7. DESIGN OUTSIDE AIR CONDITIONS:
 COOLING: 88F db/56.2F wb
 HEATING: -10F db

REMARK NOTES:
 A. PROVIDE DUCT SMOKE DETECTORS PER CODE FOR ALL UNITS 2000 CFM OR GREATER.

HIGH WALL FAN COIL SCHEDULE (HYDRONIC)																									
CODE (WFUC)	MANUFACTURER/ MODEL NO.	AREA SERVED	FAN		COOLING COIL						HEATING COIL						ELECTRICAL							REMARKS	
			SUPPLY CFM	ESP (IN.)	EAT (°F) DB WB	TOTAL MBH	SENS MBH	MAX LAT(°F)	GPM	ROW	WPD (FT)	EAT (°F)	MBH	MIN LAT(°F)	GPM	ROW	WPD (FT)	HP	VOLT	PH	FLA	DISCON.	FEEDER		FUSE
1B.01	MULTIAQUA/MHWW-36-H-3	ELECTRICAL	850	0	80	67	36.0	22.0	55	9.5	1	24.5	1/12	120	1	0.9	\$ T.O.	(2#12, #12G) 3/4"	-						A
1B.02	MULTIAQUA/MHWW-12-H-3	ESCALATOR MECH	330	0	80	67	12.0	8.7	55	4	1	12.6	1/60	120	1	0.33	\$ T.O.	(2#12, #12G) 3/4"	-						A

GENERAL NOTES:
 1. CHILLED WATER: EWT = 44 F, LWT = 54 F, 30% PROPYLENE GLYCOL.
 2. SCHEDULED FAN VALUES (CFM, SP AND HP) ARE ACTUAL AT ALTITUDE. MOTOR HP HAS BEEN ADJUSTED FROM SEA LEVEL CONDITIONS FOR OPERATION AT JOBSITE ELEVATION. JOB SITE ELEVATION = 6700 FT.
 3. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER MENA STANDARD MG1-2003, TABLES 12-12 AND 12-13.
 4. PROVIDE CONDENSATE PUMP POWERED FROM EQUIPMENT. PUMP SHALL BE PROVIDED WITH VOLTAGE MATCHING FAN COIL UNIT. IF TRANSFORMER IS PROVIDED FOR CONDENSATE PUMP OPERATION, PROVIDE LINE ITEM COST. GRAVITY DRAINAGE ACCEPTABLE WHERE POSSIBLE.
 5. DESIGN OUTSIDE AIR CONDITIONS:
 COOLING: 88F db/56.2F wb
 HEATING: -10F db

REMARK NOTES:
 A. PROVIDE REMOTE THERMOSTAT.

UNIT HEATER SCHEDULE (HYDRONIC)																		
CODE (UH)	MANUFACTURER/ MODEL NO.	SERVICE	CAPACITY (MBH)	WATER SIDE		AIR SIDE		ELECTRICAL										REMARKS
				WPD (FT)	EAT (°F)	LAT (°F)	CFM	WATTS	VOLT	PH	FLA	DISC	FUSE	FEEDER				
2	TRANE / UHSB18	SEE PLANS	18	1.9	2.2	60	95	500	16	120	1	1	\$ T.O.	-	(2#12, #12G) 3/4"	A.B		
3	TRANE / UHSB25	SEE PLANS	24	2.5	2.2	60	95	580	25	120	1	1	\$ T.O.	-	(2#12, #12G) 3/4"	A.B		

GENERAL NOTES:
 1. EWT = 150F, LWT = 130F.
 2. WATER CONTAINS 30% PROPYLENE GLYCOL.
 3. JOB SITE ELEVATION = 6700 FT.

REMARK NOTES:
 A. PROVIDE WALL MOUNTED THERMOSTAT.
 B. HORIZONTAL DISCHARGE W/ LOUVER.

LOUVER SCHEDULE						
CODE (LV)	MANUFACTURER/ MODEL NO.	SERVICE	AIRFLOW (CFM)	MINIMUM FREE AREA...	FACE... (IN X IN)	REMARKS
1B.01	RUSKIN/ELF6375DX	BOILER COMBUSTION AIR	10,000	20	84X60	

GENERAL NOTES:
 1. LOUVERS ARE PROVIDED BY DIVISION 23.
 2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAILS.

△ Date Description

- 2021.05.19 BP3: GOLDWALK - ISSUE FOR PERMIT

**RCRBD
 Record Set
 TC
 06/29/2021**

Seal / Signature



05/18/2021

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

GOLD WALK - MECHANICAL SCHEDULES

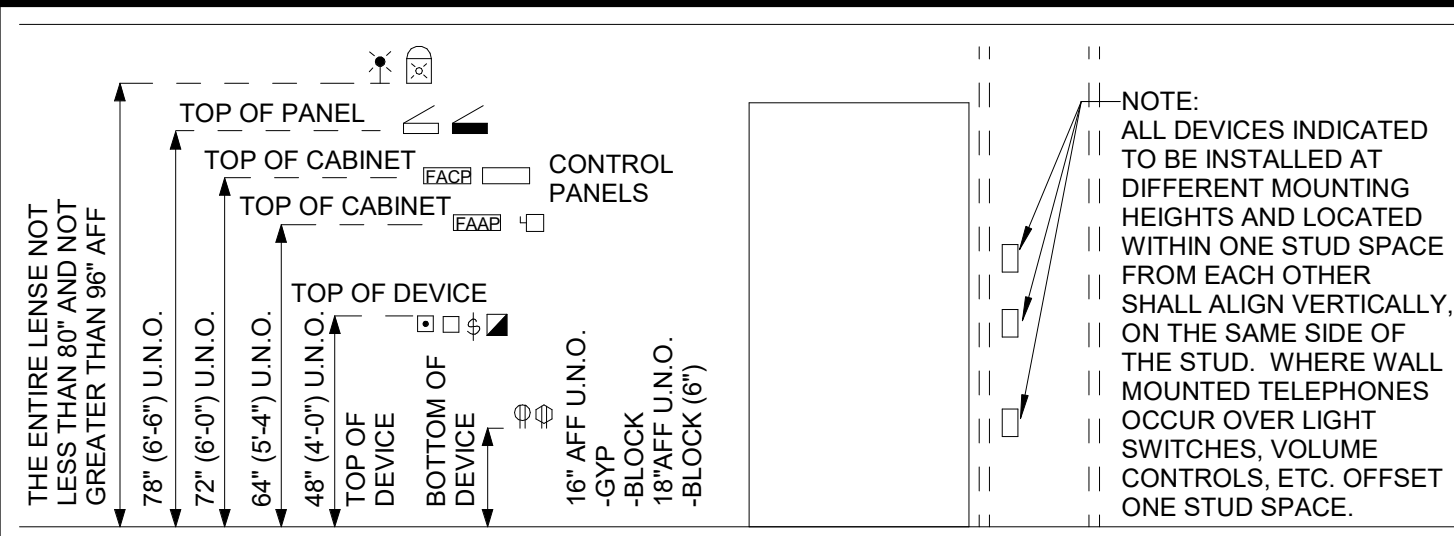
Scale

1B-MEP0.001

NOTES

1. ALL EXPOSED RACEWAYS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS...

TYPICAL DEVICE MOUNTING HEIGHTS



NOTES: 1. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.

CODES AND STANDARDS

DESIGNED UNDER THE FOLLOWING CODES AND STANDARDS: 2020 NATIONAL ELECTRICAL CODE, 2018 INTERNATIONAL BUILDING CODE...

ABBREVIATIONS

Table of abbreviations categorized by letters A through X, listing terms like AMP, AC, AF, etc., and their corresponding meanings.

SYMBOLS

Table of electrical symbols categorized by Lighting, Power, Raceway Legend, and Fire Alarm, showing symbols for strip light, wall mounted linear, etc.

RACEWAY LEGEND

Table defining raceway symbols and their meanings, including branch circuit homerun, motor connection, and conduit types.

RECEPTACLE MODIFIER TAGS

Table of receptacle modifier tags with columns for Tag, Outlet Rating, NEMA/CAT No, Feeder, and Wiring Notes.

DEVICE GENERAL NOTES: 1. REFER TO SPECIFICATION SECTION 26 27 26 FOR SPECIFIC FLOOR DEVICE PRODUCT INFORMATION.

EQUIPMENT

Table of electrical equipment symbols and their meanings, including motor, motor and disconnect, meter, etc.



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LANDMARK DESIGNWORKSHOP logo and contact information: 141 9th Street, PO Box 774943, Steamboat Springs, CO 80477.

MARTIN/MARTIN logo and contact information: 12499 West Colfax Ave., Lakewood, CO 80215.

me logo and contact information: 14143 Denver West Pkwy, Suite 300, Golden, CO 80202.

Table with columns for Date and Description, containing a record for 2021.05.19 regarding B23 GOLDWALK - ISSUE FOR BID AND PERMIT.

RCRBD Record Set Electrical 06/22/2021



Project Name: SSRC | BASE AREA IMPROVEMENTS. Project Number: 003.7835.000. Description: GOLD WALK - ELECTRICAL LEGEND.

Scale: 1/8" = 1'-0"

1B-E0.000

ELECTRICAL EQUIPMENT CONNECTION SCHEDULE

GENERAL NOTES:

1. THIS SCHEDULE IS FOR ELECTRICAL EQUIPMENT CONNECTIONS ONLY. EQUIPMENT BY OTHERS.
2. PROVIDE A DEDICATED CIRCUIT WITH A DEDICATED NEUTRAL FOR ALL EQUIPMENT UNLESS OTHERWISE NOTED.
3. CONFIRM ALL EQUIPMENT LOCATIONS AND ELEVATIONS PRIOR TO ROUGH-IN.
4. CONFIRM ALL EQUIPMENT FEEDER, DISCONNECT AND FUSING WITH SUBMITTED/PURCHASED EQUIPMENT PRIOR TO ROUGH-IN.

REMARK NOTES:

- A. PROVIDE GFCI CIRCUIT BREAKER.
- B. COORDINATE LOCATION OF ELECTRICAL RECEPTACLE WITH FOUNTAIN ROUGH IN DRAWING RECOMMENDATIONS.

EQ #	EQUIPMENT DESCRIPTION	HP	LOAD (VA)	VOLTAGE	PHASE	FLA	DISCONNECT	FUSE	FEEDER	CONDUIT	REMARKS
2	GARBAGE DISPOSAL	-	1440	120 V	1	12 A	-	-	2 #12 & #12 GND	3/4"	
3	COPIER	-	1560	120 V	1	13 A	-	-	2 #12 & #12 GND	3/4"	
4	DISHWASHER	-	1560	120 V	1	13 A	-	-	2 #12 & #12 GND	3/4"	
5	DRINKING FOUNTAIN	-	600	120 V	1	5 A	-	-	2 #12 & #12 GND	3/4"	A, B
6	MICROWAVE	-	1560	120 V	1	13 A	-	-	2 #12 & #12 GND	3/4"	
7	REFRIGERATOR	-	720	120 V	1	6 A	-	-	2 #12 & #12 GND	3/4"	
9	UNDERCOUNTER REFRIGERATOR	-	360	120 V	1	3 A	-	-	2 #12 & #12 GND	3/4"	
12	SKI BOOT DRYER (DOUBLE CONNECTION)	-	480	120 V	1	4 A	-	-	2 #12 & #12 GND	3/4"	
12A	SKI BOOT DRYER - WALL CONNECTION	-	240	120 V	1	2 A	-	-	2 #12 & #12 GND	3/4"	
13	GAS COMMERCIAL DRYER	-	1440	120 V	1	12 A	30A/1P	-	2#12 & #12 GND	3/4"	
14	COMMERCIAL WASHER	-	3328	208 V	1	16 A	-	-	3 #12 & #12 GND	3/4"	
14A	RESIDENTIAL STYLE WASHER	-	1800	120 V	1	15 A	-	-	2#12 & #12 GND	3/4"	
15	COFFEE MAKER	-	1920	120 V	1	16 A	-	-	2 #12 & #12 GND	3/4"	
16	ICE/WATER DISPENSER	-	1440	120 V	1	12 A	-	-	2 #12 & #12 GND	3/4"	

Type	Lamp	Description	Finish	Voltage	Mounting	Manufacturer	Catalog Number	Alternate 1	Alternate 2	Control	Location	Comments
L1	42W LED, 3000 LUMENS PER 4 FEET OF FIXTURE, 3500K, 80+ CRI, 50,000+ HOURS	LED STRIPLIGHT WITH DIFFUSE LENS, PROVIDE SURFACE OR PENDANT MOUNT SUPPORTS PER MOUNTING HEIGHT	WHITE	120-277	PENDANT TO 10 FT. AFF	LITHONIA	CLXL48-3000LM-SEF-FDL	COOPER METALLUX SNLED SERIES	DAYBRITE FSS LED SERIES	ON/OFF	MEP, STORAGE	PROVIDE ADDITIONAL QUANTITY OF COMPLETE LIGHT FIXTURE, WITH A QTY OF 0.25% OF TOTAL QTY AND A MIN. QTY OF 2 FIXTURES.
L2	15 WATT LED, 600 LUMENS, 4000K	WALL MOUNTED LED 'JELLY JAR' STYLE LIGHT FIXTURE WITH METAL GUARDING AROUND FIXTURE LENSING LIGHT SOURCE, LOW PROFILE, VAPOR TIGHT, LED LIGHT SOURCE.	STANDARD	MVOLT	WALL	LITHONIA	OLV1WM-	APPROVED ALTERNATE	APPROVED ALTERNATE	ON/OFF	GENERATOR YARD	
L3		NOT USED										
L3A		NOT USED										
L4	23W LED, 1800+ DELIVERED LUMENS, 3500K, 80+ CRI, 50000 HOURS	4" DIAMETER RECESSED FIXED DOWNLIGHT, 73 DEGREE WIDE BEAM DISTRIBUTION, MATTE-DIFFUSE REFLECTOR, 6-8 1/8" TALL NEW CONSTRUCTION HOUSING, INTEGRAL DRIVER.	STANDARD, TO BE CONFIRMED WITH ARCHITECT	120-277	RECESSED	GOTHAM	EVO4-3520-AR-WD-LD-MVOLT-G210	COOPER PORTFOLIO SERIES	SIGNIFY CALCULITE SERIES	0-10V DIMMING	CORRIDORS	PROVIDE ADDITIONAL QUANTITY OF COMPLETE LIGHT FIXTURE, WITH A QTY OF 0.25% OF TOTAL QTY AND A MIN. QTY OF 2 FIXTURES.
L4A		NOT USED										
L4B		NOT USED										
L5		NOT USED										
L5A		NOT USED										
L6		NOT USED										
L6A	9W/FT, 1250 LUMENS PER FOOT, 3500K, 80+ CRI, 50,000+ HOURS	3.44" WIDE X 2.72" DEEP LED STRIPLIGHT WITH DIFFUSE LENS, PROVIDE SURFACE OR PENDANT MOUNT SUPPORTS PER MOUNTING HEIGHT. LENGTH PER PLAN	WHITE, VERIFY WITH ARCHITECT	120-277	WALL	LITHONIA	CLX L24 2500LM SEF FDL	COOPER METALLUX SNLED SERIES	DAYBRITE FSS LED SERIES	0-10V DIMMING	STAIRS/CORRIDORS	
L6B		NOT USED										
SITE FAÇADE												
S1	5903 LUMENS, 50W, 3000K, 80 CRI	SIMILAR TO F1, EXCEPT WALL MOUNTED	BLACK (VERIFY WITH ARCH)	120/277V	WALL	WE-EF	ASPS34 LED655-3526	APPROVED ALTERNATE	APPROVED ALTERNATE	0-10V DIMMING	ARM MOUNTED	
S2	7.7W, 807 LUMENS, 3000K, 80 CRI	10.31" WIDE X 9.06" TALL X 4.52" DEEP RECESSED STEP LIGHT WITH TEMPERED GLASS LENS, ASSYMETRIC THROW, WET LOCATION RATED.	GREY METALLIC (VERIFY WITH ARCHITECT)	120-277V	RECESSED	WE-EF	QRI 354 LED - 616 1321	APPROVED ALTERNATE	APPROVED ALTERNATE	ON/OFF	STEPS	
S3	28W, 2951 LUMENS, 3000K, 80 CRI	13.84" DIAMETER ROUND RECESSED LINEAR SPREAD LENSED LED SOFTENING LENS, 7.87" DEEP, 11.97" DIAMETER BACK BOX, WET LOCATION RATED.	STAINLESS STEEL	120-277V	RECESSED	WE-EF	ETCS30-FS LED+10-180'	APPROVED ALTERNATE	APPROVED ALTERNATE	ON/OFF	ESCALATOR CANOPY	
EMERGENCY												
X1	5W LED GREEN/RED	EDGE LIT EXIT SIGN, PROVIDE WHITE OR MIRROR BACKING BETWEEN PANELS - TBD. MOUNTING AND ARROWS, SINGLE OR DOUBLE FACE, WITH UNIVERSAL MOUNTING FOR ALL CONDITIONS PER PLAN DRAWINGS	BRUSHED ALUMINUM	277	UNIVERSAL	LITHONIA	LRP SERIES	COOPER	SIGNIFY		PREMIUM AREAS	VERIFY LETTER & BACKGROUND COLOR WITH LOCAL AHJ

**RCRBD
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Seal / Signature



Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

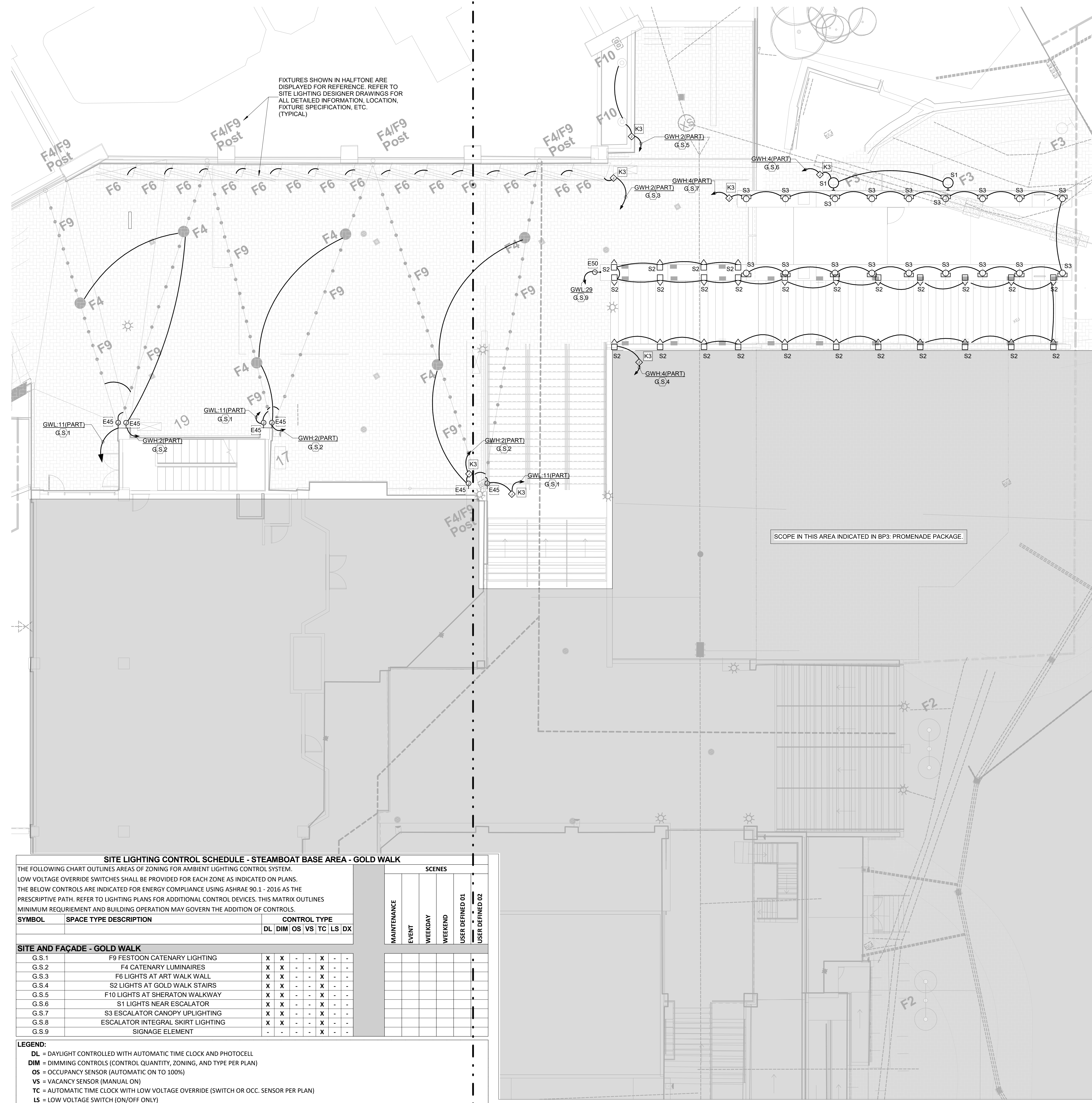
Description

ELECTRICAL EQUIPMENT CONNECTION AND LIGHT FIXTURE SCHEDULE

Scale

NOT TO SCALE

1B-E0.002



SITE LIGHTING CONTROL SCHEDULE - STEAMBOAT BASE AREA - GOLD WALK

THE FOLLOWING CHART OUTLINES AREAS OF ZONING FOR AMBIENT LIGHTING CONTROL SYSTEM. LOW VOLTAGE OVERRIDE SWITCHES SHALL BE PROVIDED FOR EACH ZONE AS INDICATED ON PLANS. THE BELOW CONTROLS ARE INDICATED FOR ENERGY COMPLIANCE USING ASHRAE 90.1 - 2016 AS THE PRESCRIPTIVE PATH. REFER TO LIGHTING PLANS FOR ADDITIONAL CONTROL DEVICES. THIS MATRIX OUTLINES MINIMUM REQUIREMENT AND BUILDING OPERATION MAY GOVERN THE ADDITION OF CONTROLS.

SYMBOL	SPACE TYPE DESCRIPTION	CONTROL TYPE						SCENES						
		DL	DIM	OS	VS	TC	LS	DX	MAINTENANCE	EVENT	WEEKDAY	WEEKEND	USER DEFINED 01	USER DEFINED 02
SITE AND FAÇADE - GOLD WALK														
G.S. 1	F9 FESTOON CATENARY LIGHTING	X	X	-	-	X	-							
G.S. 2	F4 CATENARY LUMINAIRES	X	X	-	-	X	-							
G.S. 3	F6 LIGHTS AT ART WALK WALL	X	X	-	-	X	-							
G.S. 4	S2 LIGHTS AT GOLD WALK STAIRS	X	X	-	-	X	-							
G.S. 5	F10 LIGHTS AT SHERATON WALKWAY	X	X	-	-	X	-							
G.S. 6	S1 LIGHTS NEAR ESCALATOR	X	X	-	-	X	-							
G.S. 7	S3 ESCALATOR CANOPY UPLIGHTING	X	X	-	-	X	-							
G.S. 8	ESCALATOR INTEGRAL SKIRT LIGHTING	X	X	-	-	X	-							
G.S. 9	ESCALATOR INTEGRAL SKIRT LIGHTING SIGNAGE ELEMENT	-	-	-	-	X	-							

LEGEND:
DL = DAYLIGHT CONTROLLED WITH AUTOMATIC TIME CLOCK AND PHOTOCELL
DIM = DIMMING CONTROLS (CONTROL QUANTITY, ZONING, AND TYPE PER PLAN)
OS = OCCUPANCY SENSOR (AUTOMATIC ON TO 100%)
VS = VACANCY SENSOR (MANUAL ON)
TC = AUTOMATIC TIME CLOCK WITH LOW VOLTAGE OVERRIDE (SWITCH OR OCC. SENSOR PER PLAN)
LS = LOW VOLTAGE SWITCH (ON/OFF ONLY)
DX = DMX ADDRESSABLE FIXTURE. VERIFY WITH SPECIFIC FIXTURE SPEC FOR FIXTURE ADDRESS QUANTITY AND EM OVERRIDE REQUIREMENTS.

GENERAL NOTES:
1. REFER TO LIGHTING DRAWINGS FOR OCCUPANCY/VACANCY SENSOR SPACES. PROVIDE QUANTITY AS REQUIRED FOR FULL COVERAGE OF ALL SPACES.
2. PROVIDE ADDITIONAL RELAYS AS REQUIRED FOR AUTOMATIC RECEPTACLE CONTROL AS INDICATED ON ELECTRICAL DRAWINGS FOR ALL PRIVATE OFFICES, OPEN OFFICES, AND COMPUTER CLASSROOMS.
3. ALL INTERIOR SPACES SHALL HAVE MANUAL LOCAL SWITCH/DIMMING CONTROLS OTHER THAN RESTROOMS AND PUBLIC CORRIDORS.

1 GOLD WALK ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- REFER TO SHEET 1B-E0.002 FOR LIGHTING FIXTURE SCHEDULE.
- REFER TO LANDSCAPE DRAWINGS FOR ALL SITE FIXTURE LOCATIONS MOUNTED IN HARDSCAPE OR SOFTSCAPE. FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN CENTER, OR SPACE, FIXTURES BETWEEN ARCHITECTURAL AND LANDSCAPE ELEMENTS.
- ALL LANDSCAPE OR EXTERIOR BUILDING LIGHTING SHALL BE CONTROLLED VIA THE LIGHTING CONTROL SYSTEM.
- REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR ALL FIXTURE LOCATIONS ON THE EXTERIOR OF THE BUILDING. FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN CENTER, OR SPACE, FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS.
- PROVIDE A MINIMUM 1" PVC CONDUIT FOR ALL UNDERGROUND BRANCH CIRCUITS. ALL 90DEGREE ELBOWS SHALL BE PVC COATED RIGID.
- ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.

KEYNOTES

E45 PROVIDE ELECTRICAL CONNECTION TO CATENARY TYPE LIGHT FIXTURE SUSPENDED ABOVE GOLD WALK FROM THIS SIDE OF THE GOLD WALK. STRUCTURAL SUPPORTS ARE NOT ACCESSIBLE FOR ELECTRICAL CONNECTIONS ON THE OTHER SIDE OF THE GOLD WALK. IF SURFACE MOUNTED CONDUIT FROM BELOW IS REQUIRED TO SERVE THESE LIGHTS, CONDUIT AND BACK BOXES SHALL BE PAINTED TO MATCH EXTERIOR FAÇADE.

E50 PROVIDE 120V/20A CONNECTION TO SIGNAGE ELEMENT. REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR EXACT LOCATION. VERIFY ELECTRICAL CONNECTION TYPE WITH MANUFACTURER SIGNAGE SUBMITTALS.

K3 PROVIDE SINGLE ZONE DISTRIBUTED ROOM CONTROLLER FOR LIGHTING CONTROL WITHIN THIS SPACE. ROOM CONTROLLER SHALL HAVE ON/OFF RELAY CONTROL AND DIMMING FUNCTIONALITY. ROOM CONTROLLER SHALL BE MOUNTED INSIDE BUILDING OR WITHIN NEMA 3R ENCLOSURE ON SITE. REFER TO LIGHT FIXTURE SCHEDULE FOR EXACT DIMMING TECHNOLOGY BEING USED ON A PER LIGHT FIXTURE BASIS. PROVIDE NETWORK CONNECTION FOR THIS ROOM CONTROLLER TO THE OVERALL NETWORKED LIGHTING CONTROL SYSTEM. REFER TO DETAIL XX/E8.00X FOR MORE INFORMATION.

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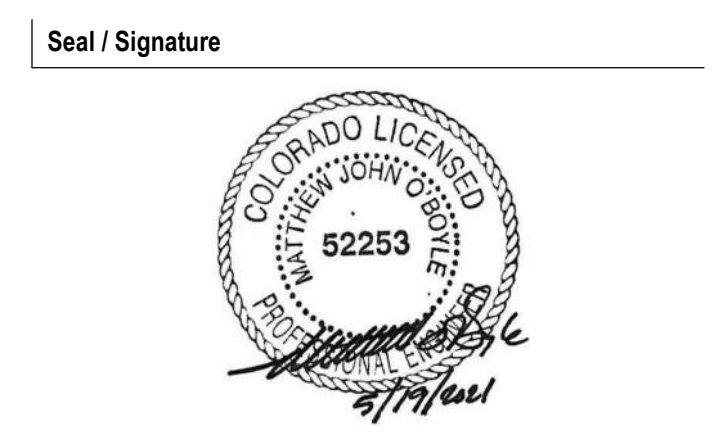
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RCRBD Record Set Electrical
06/22/2021

Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT



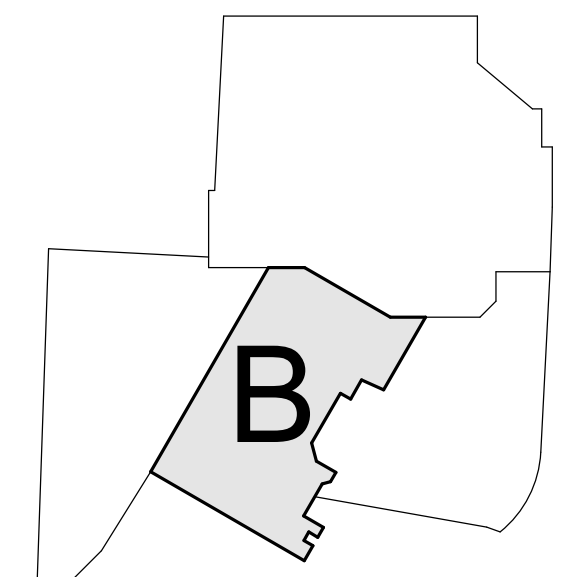
Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
GOLD WALK - ELECTRICAL LIGHTING SITE PLAN

Scale
1/8" = 1'-0"

KEY PLAN



1B-E1.000



NOT IN SCOPE

- GENERAL NOTES:**
1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
 2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.
 3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
 4. THIS CONTRACTOR SHALL REFER TO "MEP" SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS.
 5. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

- KEYNOTES**
- E18 EXISTING FEEDS TO PANELS PREVIOUSLY FED FROM EXISTING PANEL GL SHALL BE LOCATED BY THE CONTRACTOR, INTERCEPTED, AND EXTENDED TO THE NEW PANEL LOCATION INDICATED PER PLAN. PANELS THAT LOOK TO NEED POWER FROM THIS SERVICE INCLUDE UMBRELLA BAR, GL2, BBO EXISTING IN EXISTING GL PANEL IN EXISTING BOILER ROOM.
 - E19 PROVIDE 20A/120V/1P ELECTRICAL CONNECTION FOR MISCELLANEOUS BOILER ROOM MECHANICAL CONTROLS. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT CONNECTIONS LOCATIONS AND REQUIREMENTS.
 - E20 PROVIDE 20A/120V/1P ELECTRICAL CONNECTION FOR MISCELLANEOUS SNOW MELT SYSTEM CONTROLS. COORDINATE WITH MECHANICAL CONTRACTOR AND SNOW MELT DRAWINGS FOR EXACT CONNECTIONS LOCATIONS AND REQUIREMENTS.
 - E27 INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS CURRENTLY FED FROM PANEL 'SKI CORP'. EXISTING CIRCUITS SHALL EXTEND AND TERMINATE AT NEW PANEL WITH NEW BREAKER OF SAME NAME AND TYPE.

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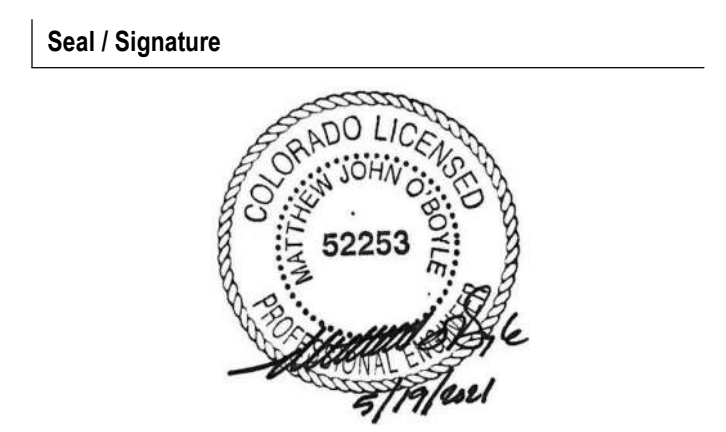
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Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT



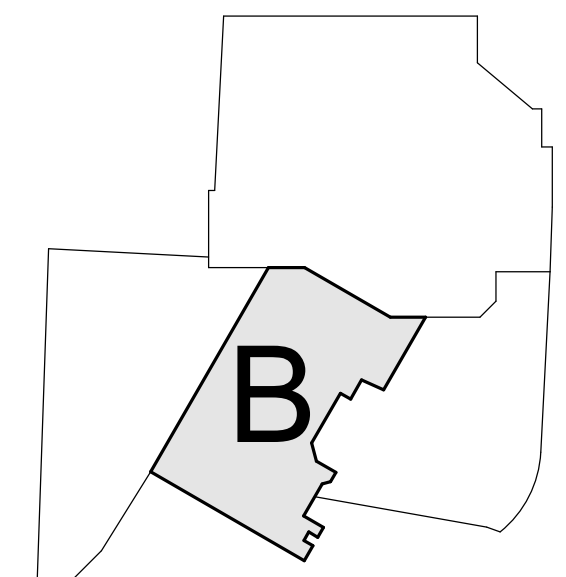
Project Name
SSRC | BASE AREA IMPROVEMENTS

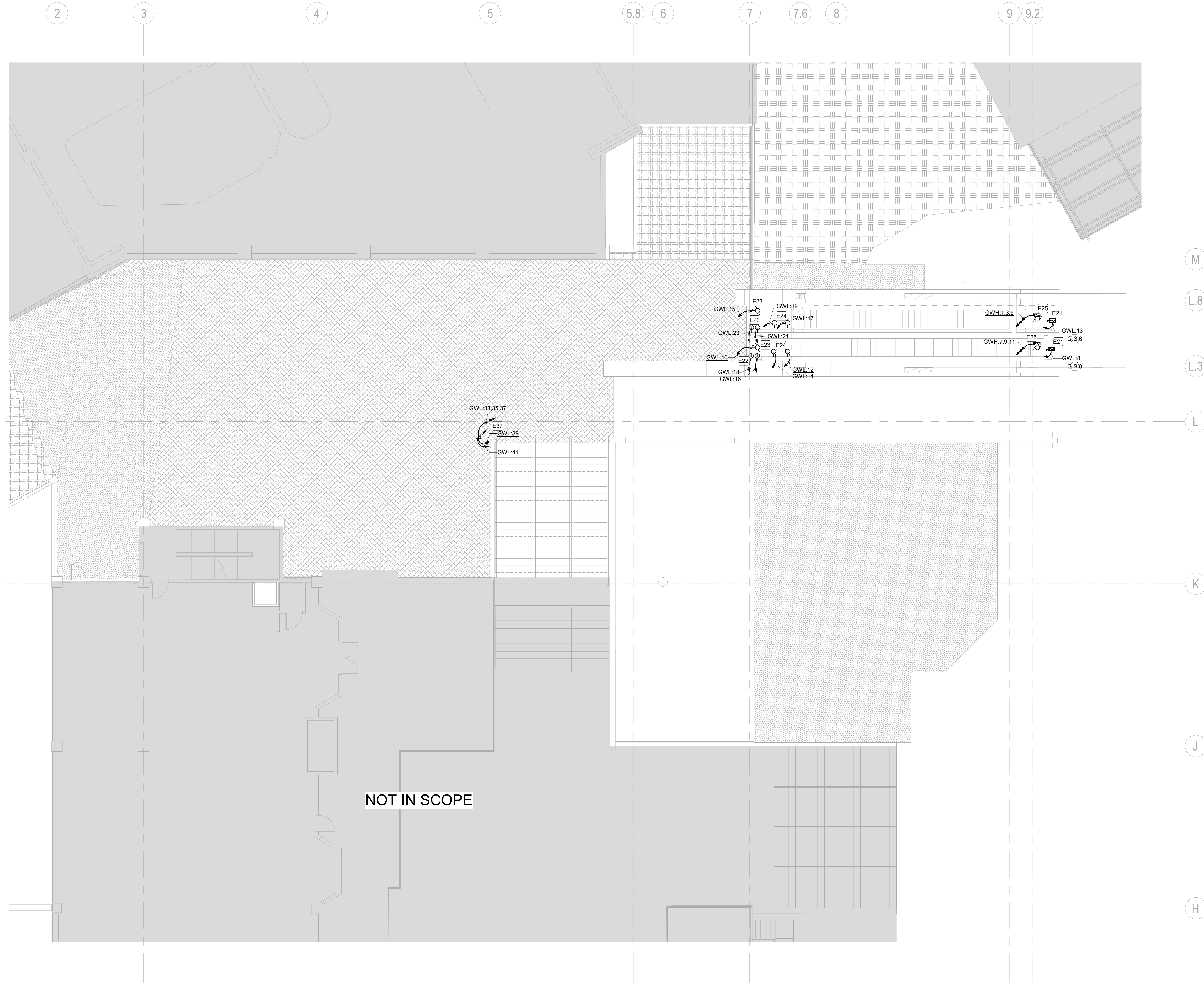
Project Number
003.7835.000

Description
GOLD WALK - ELECTRICAL PLAN - LEVEL 01

Scale
1/8" = 1'-0"

KEY PLAN



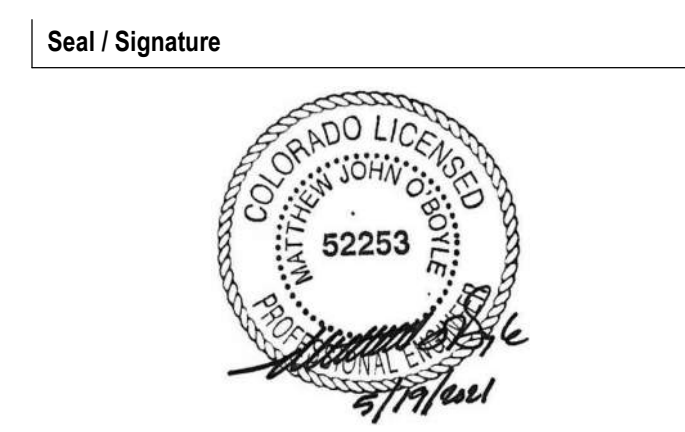


- GENERAL NOTES:**
1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
 2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.
 3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
 4. THIS CONTRACTOR SHALL REFER TO "MEP" SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS.
 5. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

- KEYNOTES**
- E21 PROVIDE 30A/120V/1P ELECTRICAL CONNECTION FOR ESCALATOR SKIRT LIGHTING. ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL FOR ON/OFF CONTROL OF LIGHTING. REFER TO ESCALATOR SHOP DRAWINGS FOR EXACT POINT OF CONNECTION AT ESCALATOR PITS.
 - E22 PROVIDE (2) 30A/120V/1P ELECTRICAL CONNECTIONS PER ESCALATOR FOR ESCALATOR STEP BAND HEATING. REFER TO ESCALATOR SHOP DRAWINGS FOR EXACT POINT OF CONNECTION AT ESCALATOR PITS.
 - E23 PROVIDE 20A/120V/1P ELECTRICAL CONNECTION FOR ESCALATOR HEATING FAN. REFER TO ESCALATOR SHOP DRAWINGS FOR EXACT POINT OF CONNECTION AT ESCALATOR PITS.
 - E24 PROVIDE (2) 20A/120V/1P ELECTRICAL CONNECTIONS PER ESCALATOR FOR COMPLEMENT HEATING. REFER TO ESCALATOR SHOP DRAWINGS FOR EXACT POINT OF CONNECTION AT ESCALATOR PITS.
 - E25 PROVIDE 480V/3P ELECTRICAL CONNECTION FOR ESCALATOR MOTOR. REFER TO ESCALATOR SHOP DRAWINGS FOR EXACT CONNECTION REQUIREMENTS AND LOCATION.
 - E37 PROVIDE NEMAR SITE POWER PEDESTAL ENCLOSURE WITH (2) NEMA 5-20R TYPE QUAD RECEPTACLES, (1) G56869, AND (1) 2-PORT DATA OUTLET. ELECTRICAL DEVICES SHALL HAVE DEDICATED CIRCUITS. REFER TO 12/18-ER-002 FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH LANDSCAPE PRIOR TO INSTALLATION.

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06/22/2021**

Date	Description
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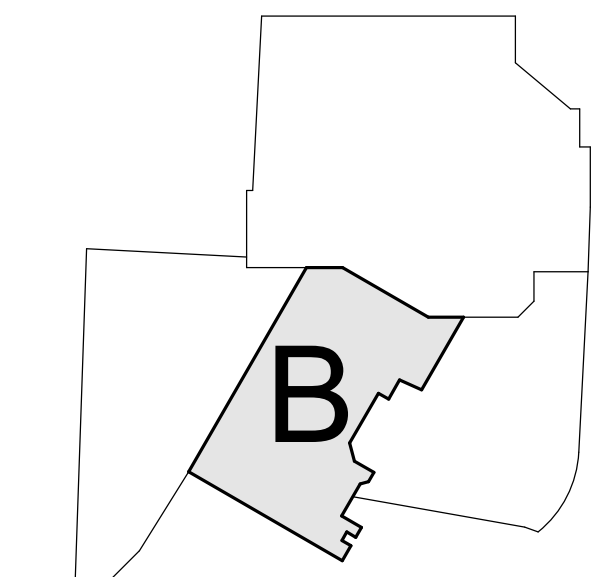
Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
GOLD WALK - ELECTRICAL PLAN - LEVEL 03

Scale
1/8" = 1'-0"

KEY PLAN



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GENERAL NOTES:

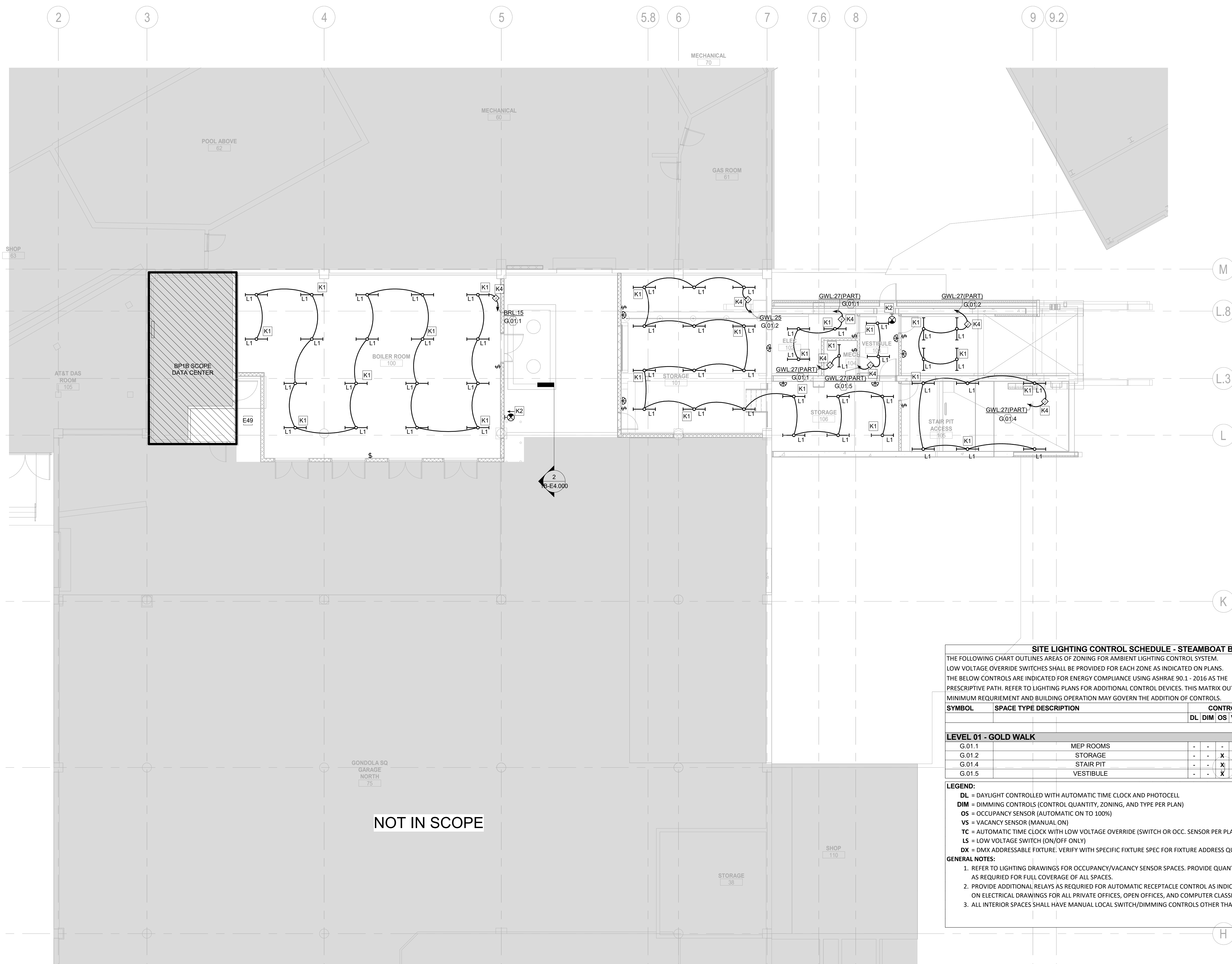
- ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT. ALL SURFACE MOUNTED CONDUIT WHERE EXPOSED TO PUBLIC AREAS SHALL BE PAINTED. PAINT COLOR TO BE DETERMINED BY THE ARCHITECT.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND CABLETRAY/IT CONTRACTOR FOR PLACEMENT OF FIXTURES WITHIN ROOMS.
- REFER TO LIGHTING DESIGNER DRAWINGS FOR EXACT MOUNTING AND DETAILS FOR POWER TO ALL SITE LIGHTING FIXTURES.

KEYNOTES

- E49 EXISTING PARKING GARAGE LIGHT LOCATED ABOVE NEW BOILER ROOM SHALL BE RELOCATED TO ABOVE THIS CORRIDOR. MAINTAIN EXISTING CONTROLS FOR THIS EXISTING CIRCUIT. EXTEND CIRCUIT AS REQUIRED TO NEW FIXTURE LOCATION.
- K1 PROVIDE INTEGRAL 90-MINUTE BATTERY PACK WITHIN LIGHT FIXTURE. BATTERY SHALL BE CIRCUITED TO THE LINE SIDE OF THE LINE VOLTAGE SWITCH CONTROLLING THE LIGHTS WITHIN THIS ROOM.
- K2 PROVIDE EXIT SIGN TYPE LITHONIA LOM-W-VOLT-SEL 'N' (OR APPROVED EQUAL) WITH FACE AND CHEVRON INDICATOR AS INDICATED PER PLAN. EXIT SIGN COLOR TO BE APPROVED BY AHJ. EXIT SIGN TO HAVE INTEGRAL 90-MINUTE MINIMUM BATTERY PACK. PROVIDE (1) SPARE EXIT SIGN OF SAME TYPE FOR LOCATION PER AHJ PRIOR TO SUBSTANTIAL COMPLETION.
- K4 PROVIDE SINGLE ZONE DISTRIBUTED ROOM CONTROLLER FOR LIGHTING CONTROL WITHIN THIS SPACE. ROOM CONTROLLER SHALL HAVE ON/OFF RELAY CONTROL ONLY. ROOM CONTROLLER SHALL BE MOUNTED INSIDE BUILDING OR WITHIN NEW 3R ENCLOSURE ON SITE. REFER TO LIGHT FIXTURE SCHEDULE FOR EXACT NETWORK CONNECTION FOR THIS ROOM CONTROLLER TO THE OVERALL NETWORKED LIGHTING CONTROL SYSTEM. REFER TO DETAIL XX/E2.00X FOR MORE INFORMATION.

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Record Set
Electrical
06/22/2021

Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT



SITE LIGHTING CONTROL SCHEDULE - STEAMBOAT BASE AREA - GOLD WALK

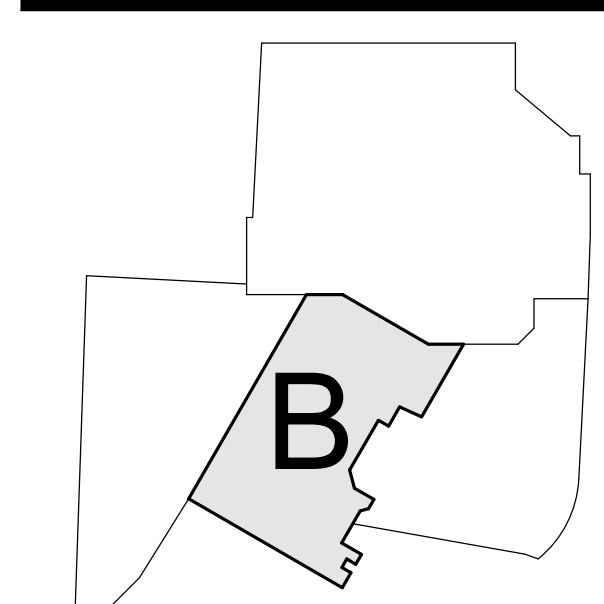
THE FOLLOWING CHART OUTLINES AREAS OF ZONING FOR AMBIENT LIGHTING CONTROL SYSTEM. LOW VOLTAGE OVERRIDE SWITCHES SHALL BE PROVIDED FOR EACH ZONE AS INDICATED ON PLANS. THE BELOW CONTROLS ARE INDICATED FOR ENERGY COMPLIANCE USING ASHRAE 90.1 - 2016 AS THE PRESCRIPTIVE PATH. REFER TO LIGHTING PLANS FOR ADDITIONAL CONTROL DEVICES. THIS MATRIX OUTLINES MINIMUM REQUIREMENT AND BUILDING OPERATION MAY GOVERN THE ADDITION OF CONTROLS.

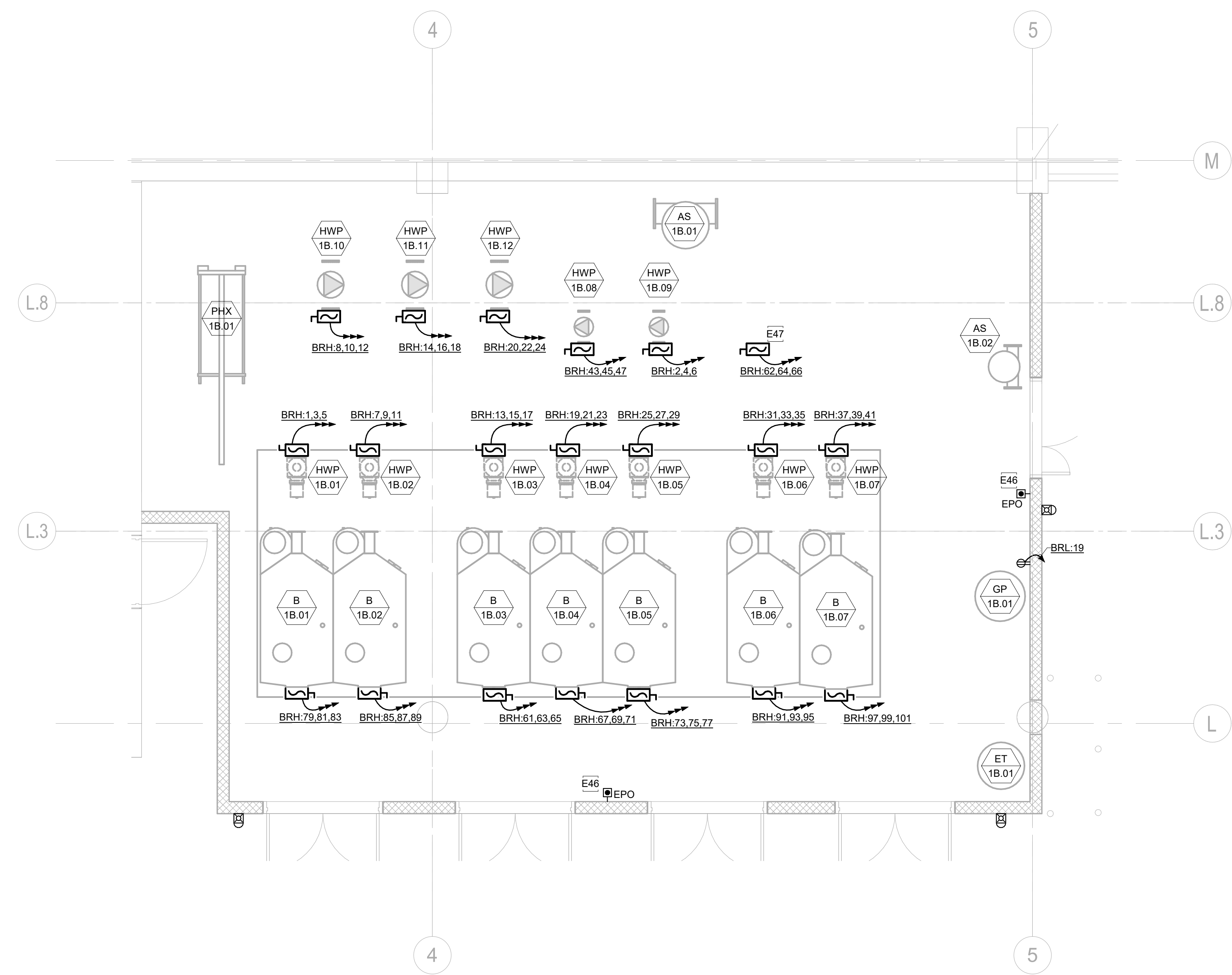
SYMBOL	SPACE TYPE DESCRIPTION	CONTROL TYPE					SCENES							
		DL	DIM	OS	VS	TC	LS	DX	MAINTENANCE	EVENT	WEEKDAY	WEEKEND	USER DEFINED 01	USER DEFINED 02
LEVEL 01 - GOLD WALK														
G.01.1	MEP ROOMS	-	-	-	-	-	-	-	-	-	-	-	-	-
G.01.2	STORAGE	-	-	X	X	X	-	-	-	-	-	-	-	-
G.01.4	STAIR PIT	-	-	X	X	X	-	-	-	-	-	-	-	-
G.01.5	VESTIBULE	-	-	X	X	X	-	-	-	-	-	-	-	-

LEGEND:
DL = DAYLIGHT CONTROLLED WITH AUTOMATIC TIME CLOCK AND PHOTOCELL
DIM = DIMMING CONTROLS (CONTROL QUANTITY, ZONING, AND TYPE PER PLAN)
OS = OCCUPANCY SENSOR (AUTOMATIC ON TO 100%)
VS = VACANCY SENSOR (MANUAL ON)
TC = AUTOMATIC TIME CLOCK WITH LOW VOLTAGE OVERRIDE (SWITCH OR OCC. SENSOR PER PLAN)
LS = LOW VOLTAGE SWITCH (ON/OFF ONLY)
DX = DMX ADDRESSABLE FIXTURE. VERIFY WITH SPECIFIC FIXTURE SPEC FOR FIXTURE ADDRESS QUANTITY AND EM OVERRIDE REQUIREMENTS.

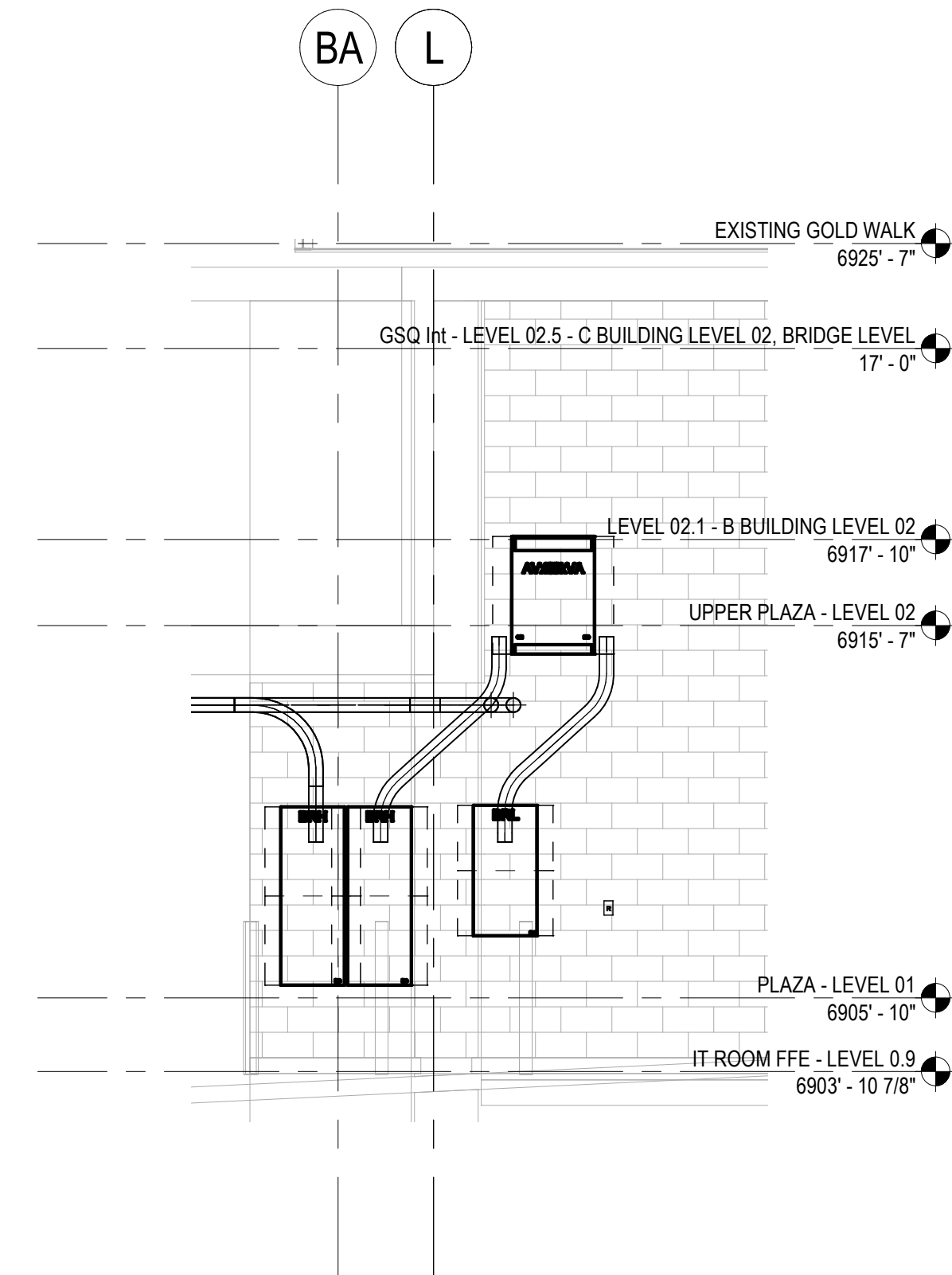
GENERAL NOTES:
1. REFER TO LIGHTING DRAWINGS FOR OCCUPANCY/VACANCY SENSOR SPACES. PROVIDE QUANTITY AS REQUIRED FOR FULL COVERAGE OF ALL SPACES.
2. PROVIDE ADDITIONAL RELAYS AS REQUIRED FOR AUTOMATIC RECEPTACLE CONTROL AS INDICATED ON ELECTRICAL DRAWINGS FOR ALL PRIVATE OFFICES, OPEN OFFICES, AND COMPUTER CLASSROOMS.
3. ALL INTERIOR SPACES SHALL HAVE MANUAL LOCAL SWITCH/DIMMING CONTROLS OTHER THAN RESTROOMS AND PUBLIC CORRIDORS.

KEY PLAN





CONTRACTOR SHALL SUBMIT SCALED SHOP DRAWINGS INDICATING REAL DIMENSIONS, VFD/DISCONNECT LOCATIONS, SKID DETAILS, MOUNTING CONFIGURATIONS, ETC FOR ALL EQUIPMENT WITHIN THIS ROOM TO ENSURE APPROPRIATE CODE REQUIRED CLEARANCES PRIOR TO PURCHASE OF ANY EQUIPMENT BEING LOCATED WITHIN THIS ROOM. NOT SUBMITTING THESE DRAWINGS ALONG WITH PRODUCT DATA WILL BE CAUSE FOR REJECTION OF SUBMITTAL.



- GENERAL NOTES:**
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
 - ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.
 - ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
 - THIS CONTRACTOR SHALL REFER TO "MEP" SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS.
 - CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
- KEYNOTES**
- E46 PROVIDE EPO PUSH BUTTON TIED TO SHUNT TRIP MAIN BREAKER ON PANEL 'BRH' FOR BOILER ROOM. LOCATE BEHIND ACRYLIC COVER OR SIMILAR. LABEL THIS BUTTON 'BOILER ROOM POWER SHUTOFF.'
- E47 PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR SNOW MELT PUMP SKID AT SKID PANEL. PROVIDE ADEQUATE WORKING CLEARANCE IN FRONT OF SKID PANEL. REFER TO SNOW MELT PUMP DESIGNER DRAWINGS AND SPECS AS WELL AS MANUFACTURER REQUIREMENTS FOR EXACT CONNECTION REQUIREMENTS.

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Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT

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Electrical
06/22/2021

1 ENLARGED ELECTRICAL BOILER ROOM PLAN
 SCALE: 1/4" = 1'-0"

SNOW MELT SYSTEM - PUMP SCHEDULE							GOLD WALK	
PUMP TAG	HP	VOLT	PH	FLA	FUSE	DISCON.	FEEDER	COMMENTS
SKID CONNECTION	-	480	3	182	250A LPS-RK	400A/3P	(4#250, #4G) 3°C	C
P-1	15	480	3	21	-	-	-	A,C
P-2	15	480	3	21	-	-	-	A,C
P-3	15	480	3	21	-	-	-	A,C
P-4	15	480	3	21	-	-	-	A,C
P-5	10	480	3	14	-	-	-	A,C
P-6	15	480	3	21	-	-	-	A,C
P-8	15	480	3	21	-	-	-	A,B,C
P-9	15	480	3	21	-	-	-	A,B,C
P-10	15	480	3	21	-	-	-	A,B,C

COMMENTS:

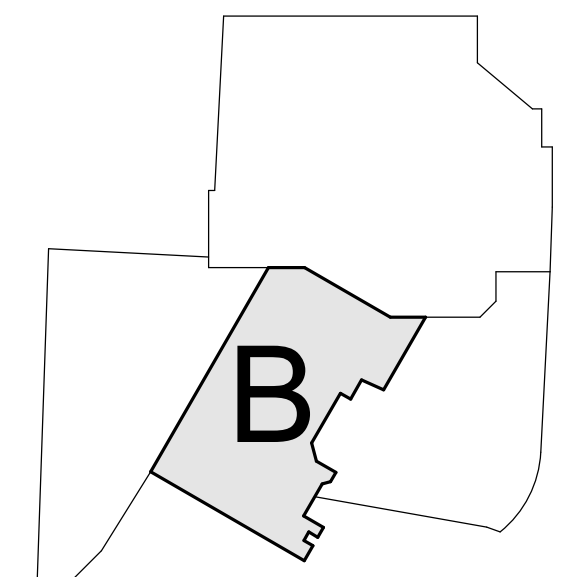
A: REFER TO SNOW MELT DESIGNER DRAWINGS FOR EXACT PUMP AND CONNECTION REQUIREMENTS. CONNECTIONS TO BE MADE AT VFD AND AT MOTOR BY THIS CONTRACTOR.

B: PUMP TO BE ISSUED AS A PART OF THE TRANSIT CENTER PACKAGE.

C: SNOW MELT PUMP SKID TO HAVE A SINGLE POINT CONNECTION. MANUFACTURER TO PROVIDE SINGLE POINT OF CONNECTION AND LOCAL DISCONNECTING MEANS FOR NEC COMPLIANCE.

2 BOILER ROOM ELECTRICAL EQUIPMENT MOUNTING
 SCALE: 1/4" = 1'-0"

KEY PLAN



Seal / Signature

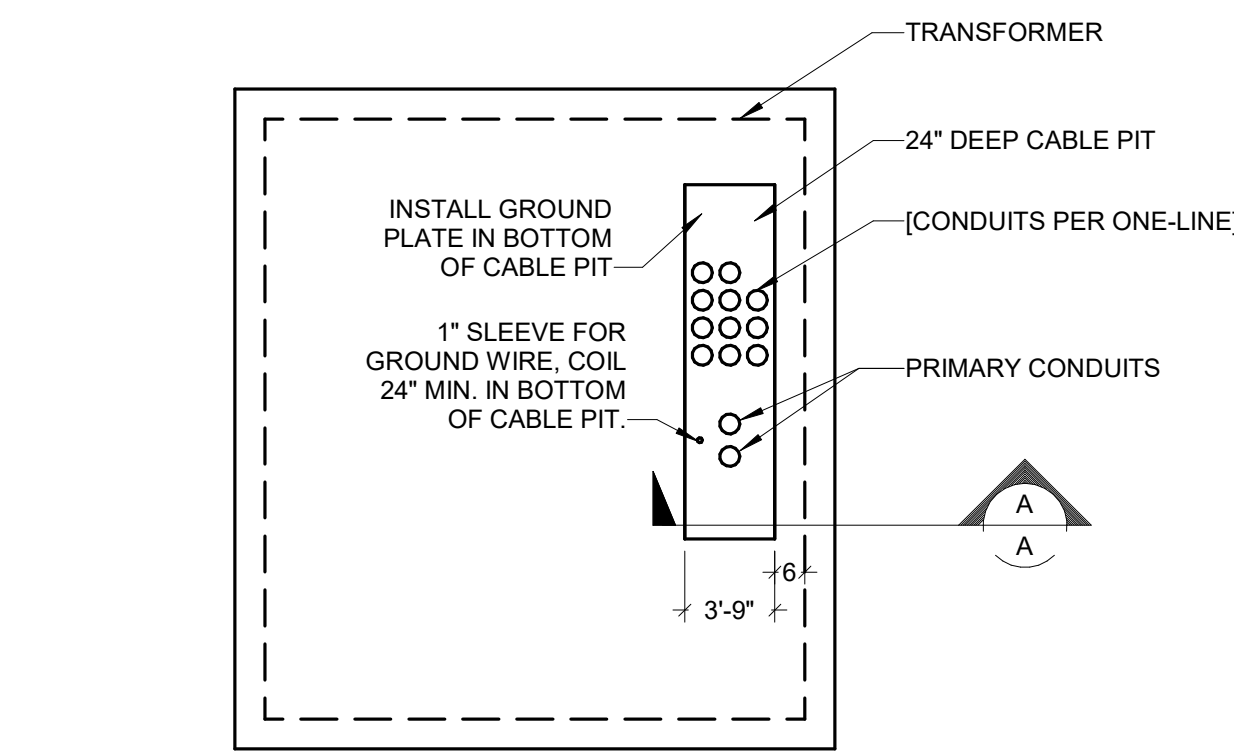
Project Name
 SSRC | BASE AREA IMPROVEMENTS

Project Number
 003.7835.000

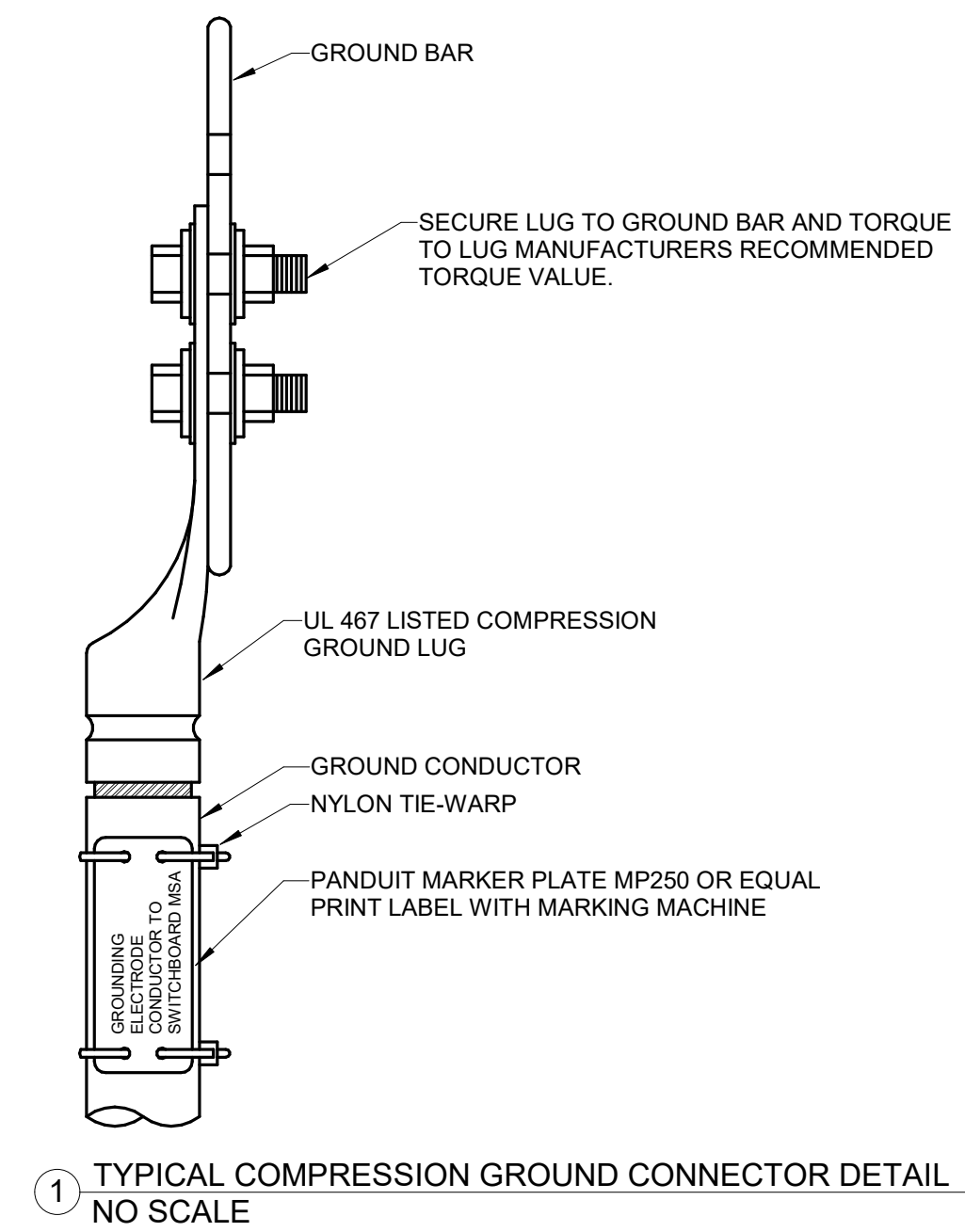
Description
 GOLD WALK - ELECTRICAL ENLARGED PLANS AND SECTIONS

Scale
 1/4" = 1'-0"

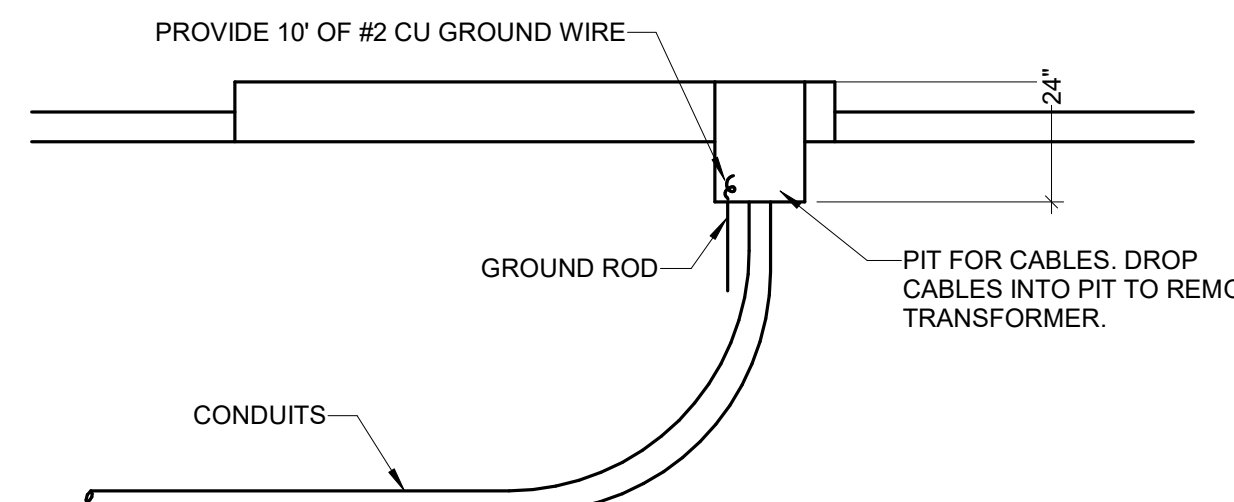
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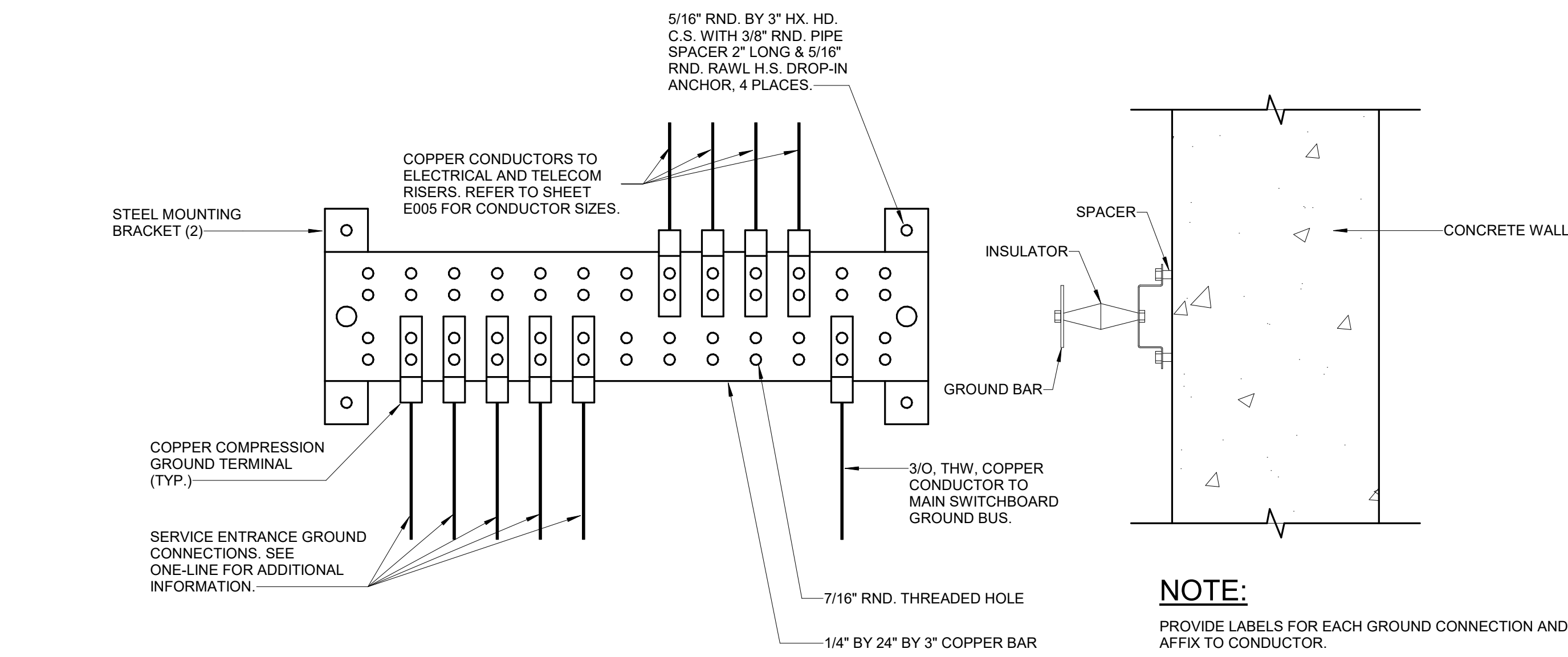
5 MAIN ELECTRICAL ROOM GROUND BUS BAR
NO SCALE



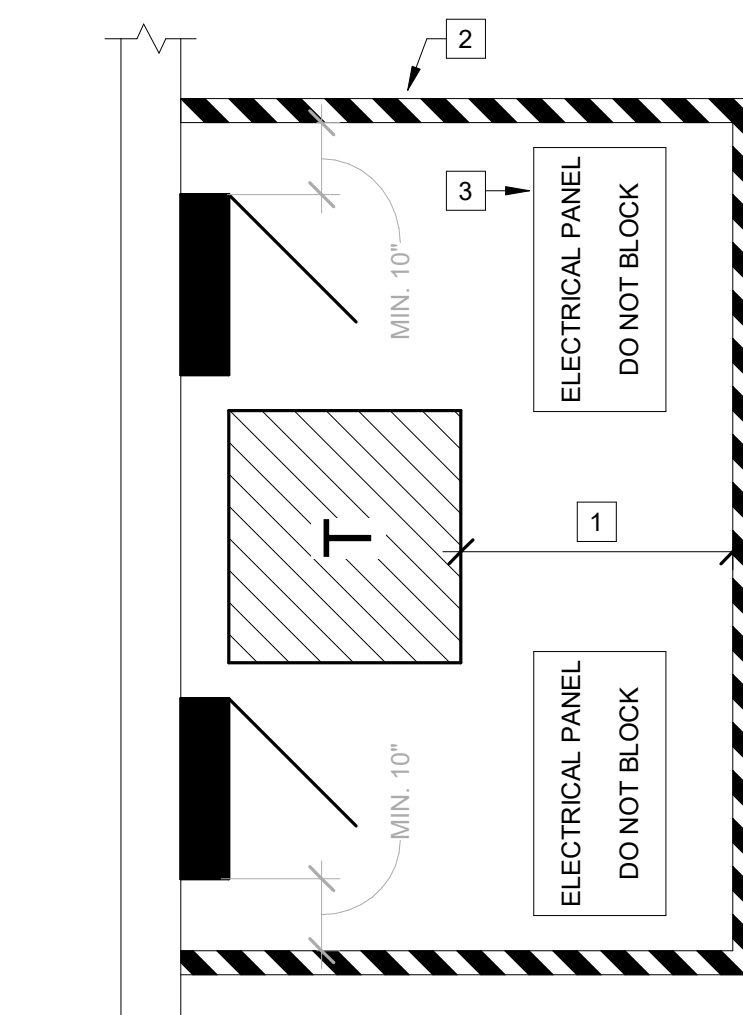
1 TYPICAL COMPRESSION GROUND CONNECTOR DETAIL
NO SCALE



7 TRANSFORMER PAD
NO SCALE



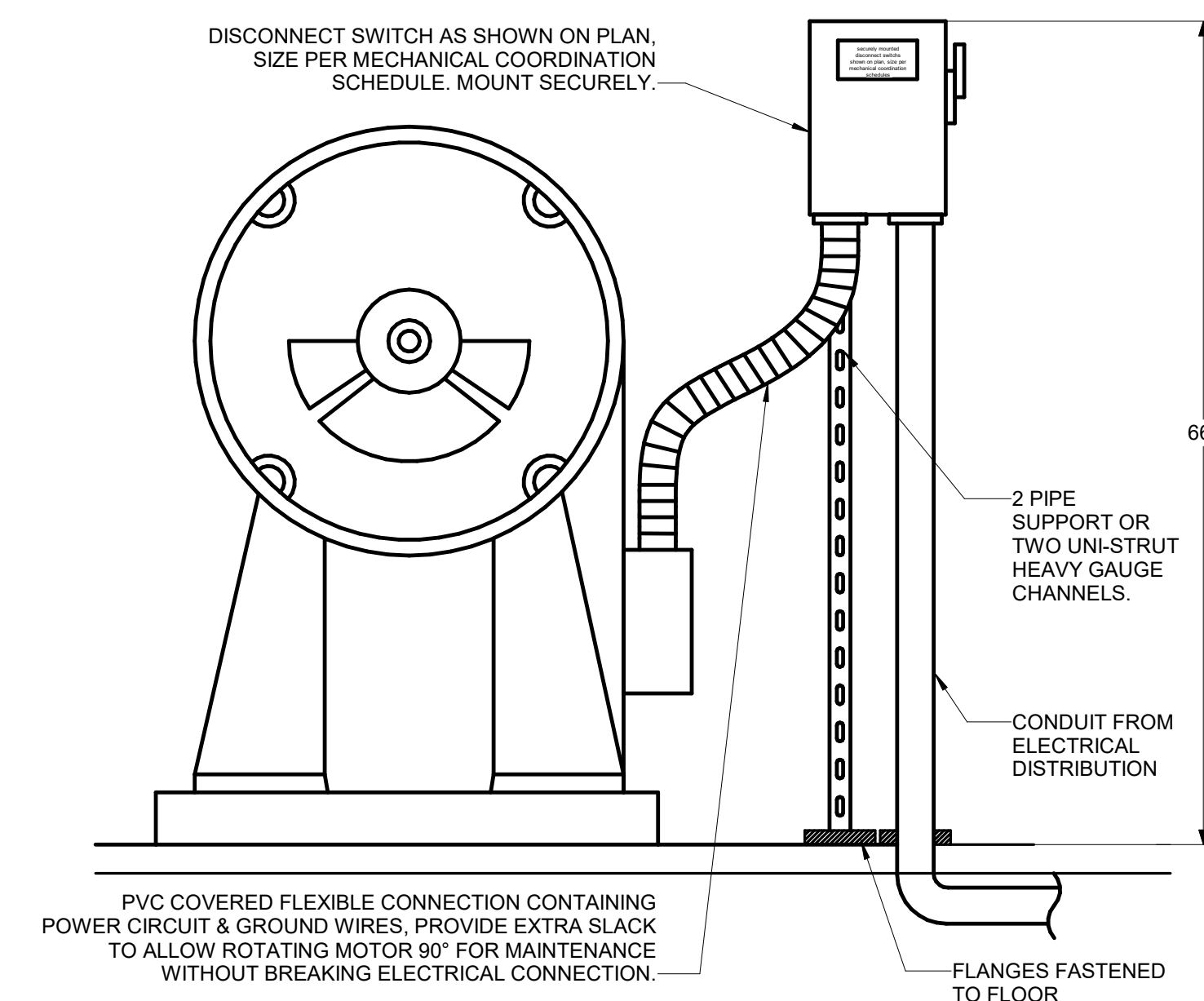
2 MASTER POWER EQUIPMENT GROUNDING BUSBAR
NO SCALE



KEYNOTES:

- REFER TO NEC TABLE 110.26(A)(1) AND OSHA TABLE S-1, FOR WORKING CLEARANCE DISTANCE REQUIREMENTS. MINIMUM 30" FROM DEADFRONT FACE OF ELECTRICAL EQUIPMENT.
- 3" STRIPED, BLACK AND YELLOW FLOOR MARKING HAZARD TAPE. 3M MODEL 5702 OR APPROVED EQUIVALENT.
- PERMANENT, WATER RESISTANT "ELECTRICAL PANEL DO NOT BLOCK" VINYL FLOOR LABEL WITH NFPA 170 PANEL SYMBOL. QUANTITY AND SPACING TO BE DETERMINED BY EOR.

8 ELECTRICAL EQUIPMENT CLEARANCE MARKINGS
NO SCALE



9 CONNECTION TO FLOOR MOUNTED MOTORS
NO SCALE

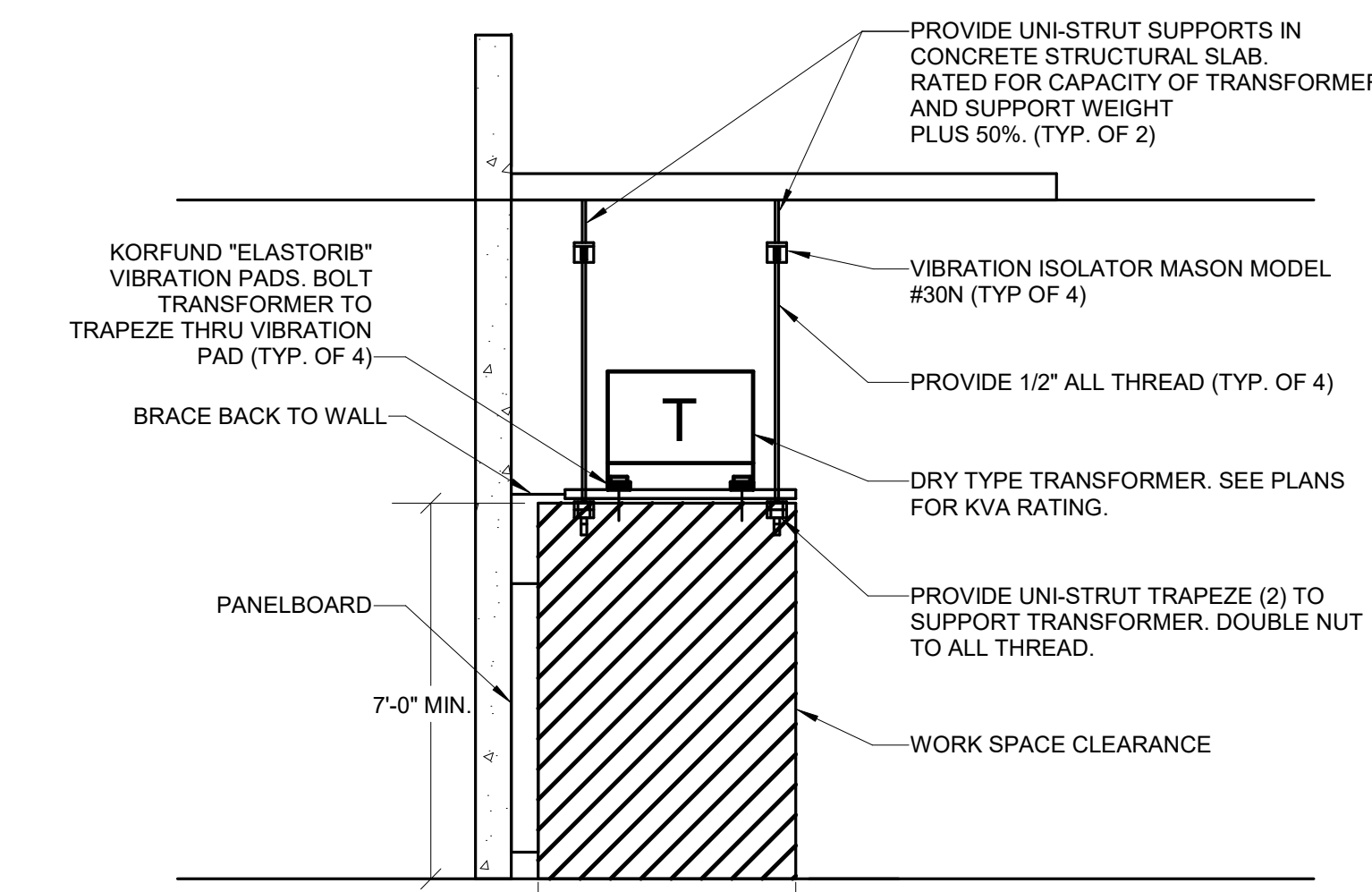
GENERAL NOTES

- REFER TO PLAN DRAWINGS FOR QUANTITIES AND LOCATIONS
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

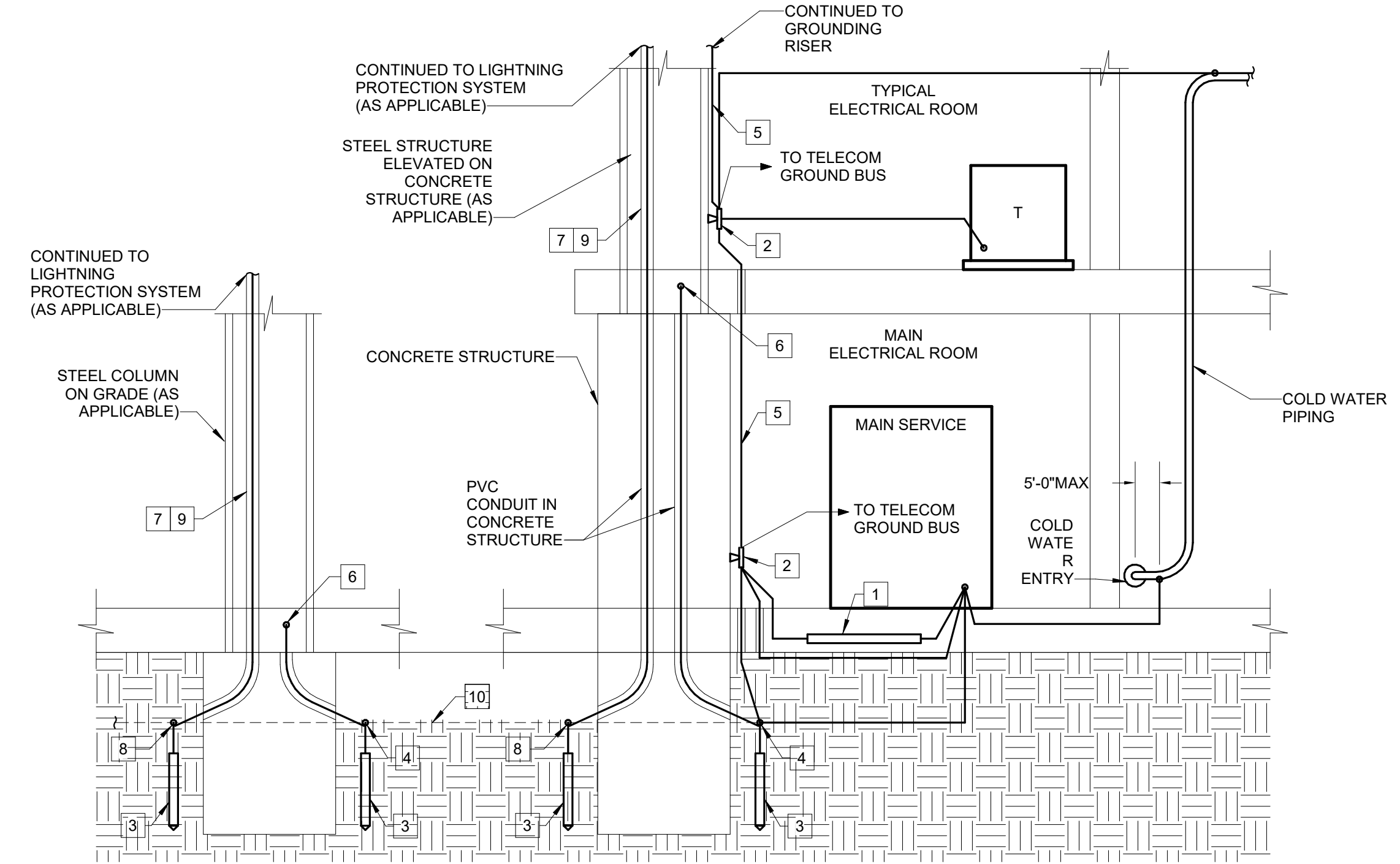
KEY NOTES

- CONCRETE ENCASED ELECTRODE PER NEC 250.52
- ELECTRICAL ROOM GROUND BAR REFER TO SPECIFICATIONS. CONNECTIONS TO BE BY EXOTHERMIC WELD.
- GROUND ROD, REFER TO SPECIFICATIONS.
- EXOTHERMIC WELD OR COMPRESSION CONNECTION.
- GROUND RISER, REFER TO GROUNDING RISER DIAGRAM.
- PROVIDE EXOTHERMIC WELD AT APPROXIMATE LOCATION ON STEEL COLUMN. LOCATION TO BE BELOW FINAL POURED CONCRETE SLAB.
- VERIFY FOR LIGHTING PROTECTION! PROVIDE COPPER WIRE (SIZE PER NFPA 780) FOR LIGHTNING PROTECTION DOWNLEAD CONDUCTOR.
- CONNECT DOWNLEAD CONDUCTOR TO GROUND LOOP AND PROVIDE GROUND ROD AT THIS LOCATION.
- PVC CONDUIT, CONCEAL IN WALLS OR CHASES OR PROVIDE ARCHITECTURAL CHASE. NOT TO BE RUN EXPOSED OR ABOVE CEILINGS.
- PROVIDE GROUND LOOP AS REQUIRED FOR LIGHTING PROTECTION AND PER PLANS AND SPECIFICATIONS.

3 GROUNDING DETAILS
NO SCALE



6 TRAPEZE MOUNTING
NO SCALE



4 GROUND ROD INSPECTION WELL
NO SCALE

Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

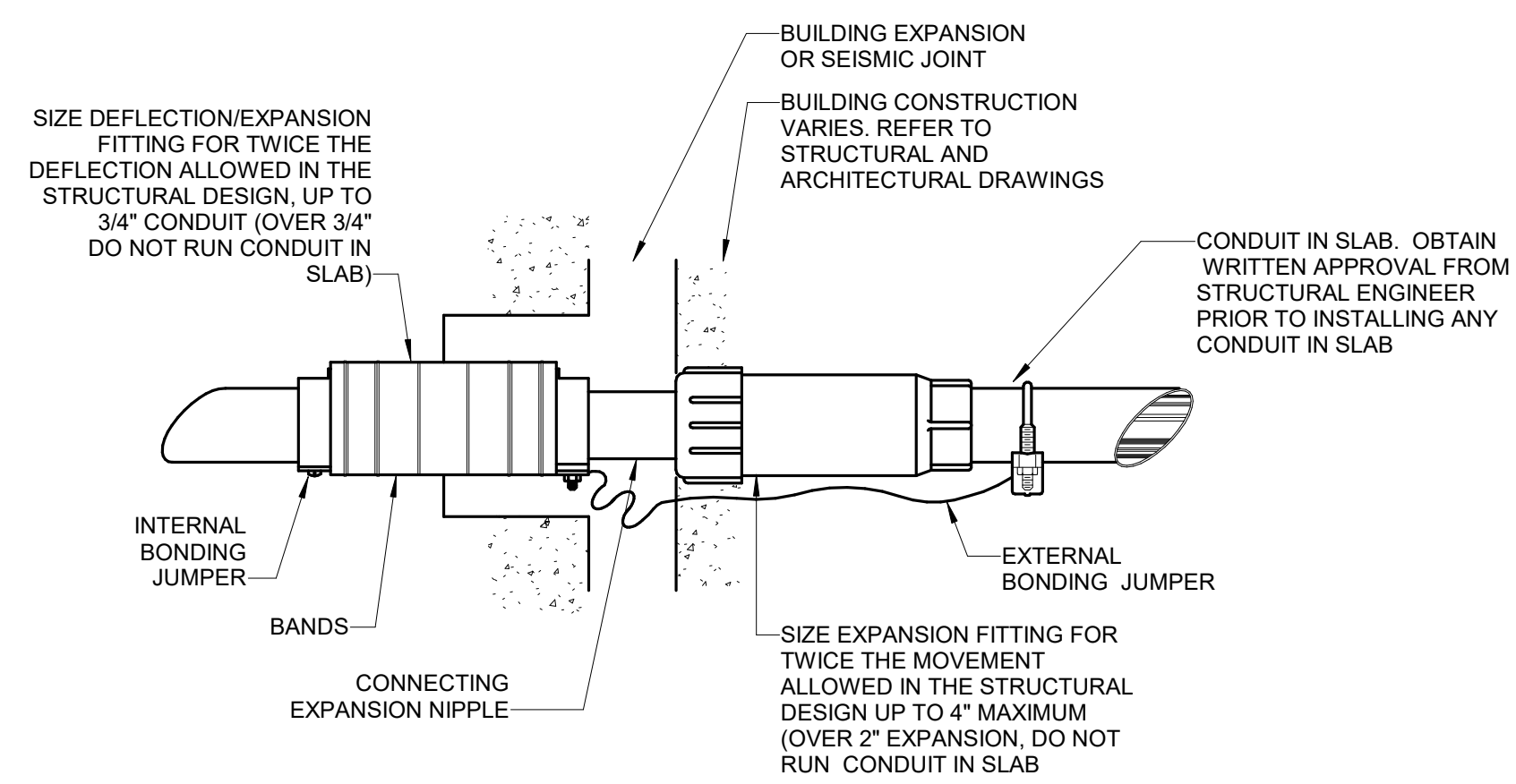
GOLD WALK - ELECTRICAL DETAILS

Scale

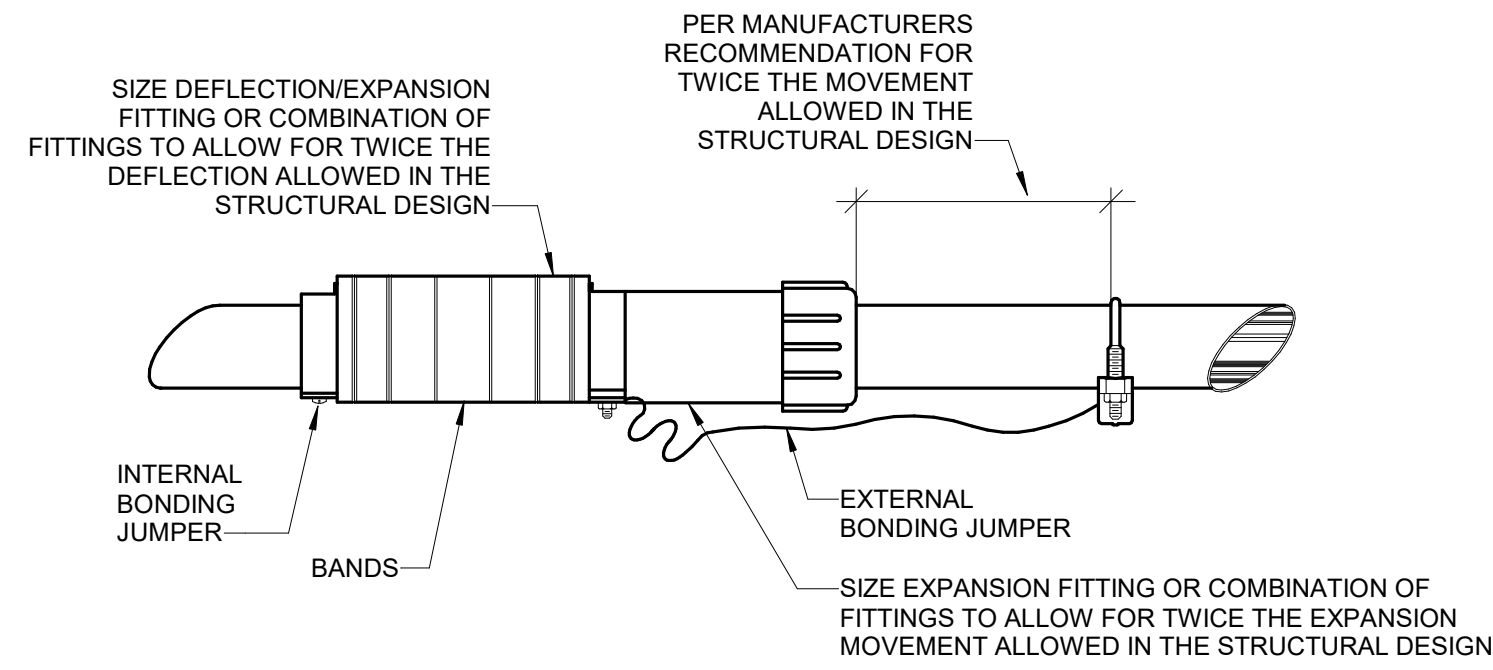
NO SCALE

1B-E8.000

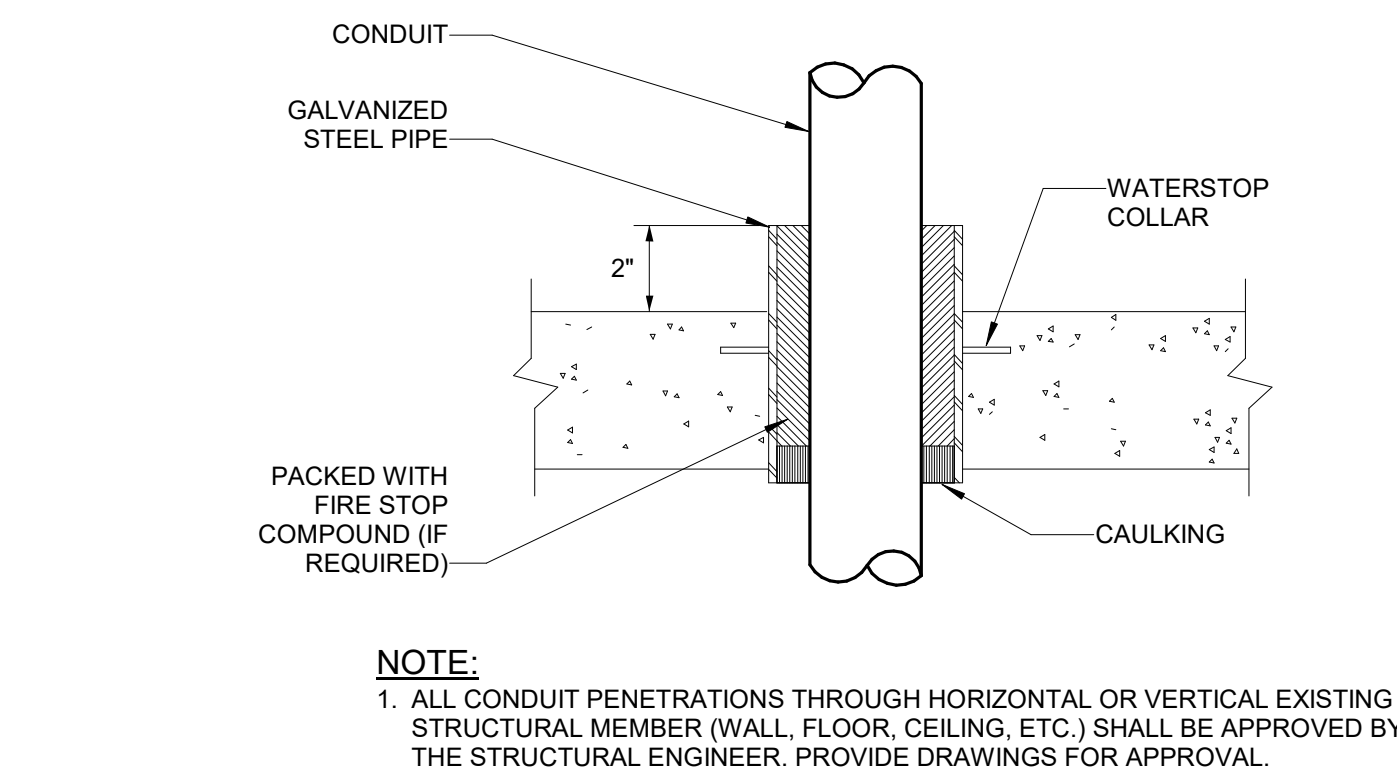
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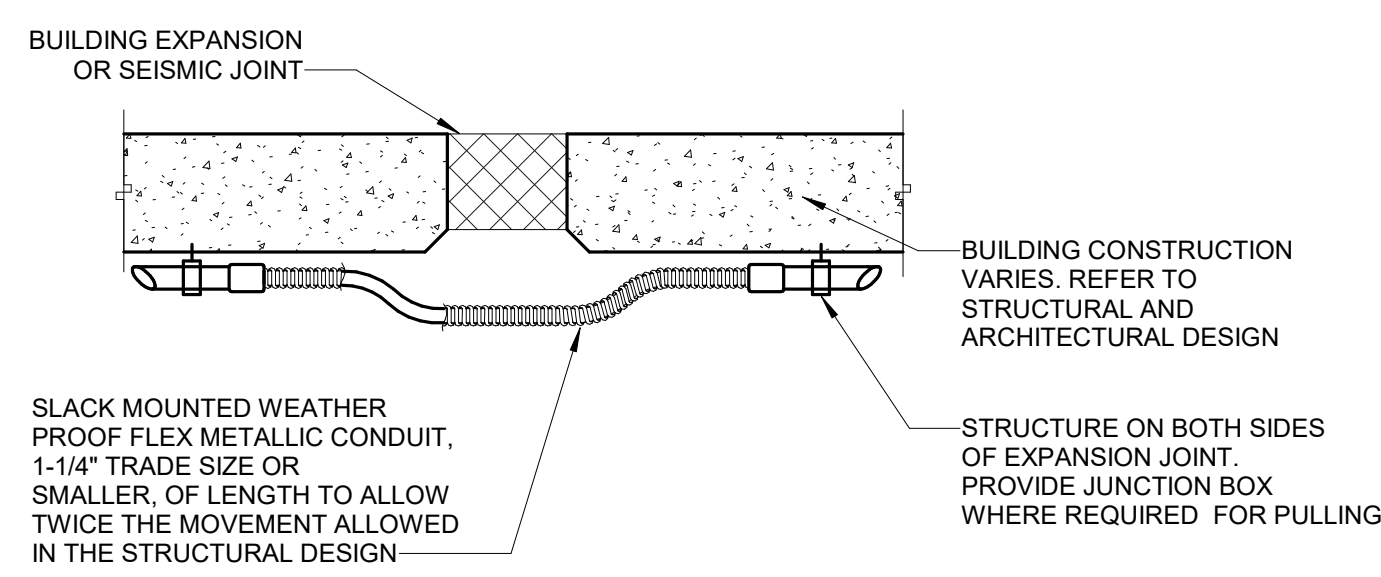
COMBINATION EXPANSION/DEFLECTION FITTING IN SLAB



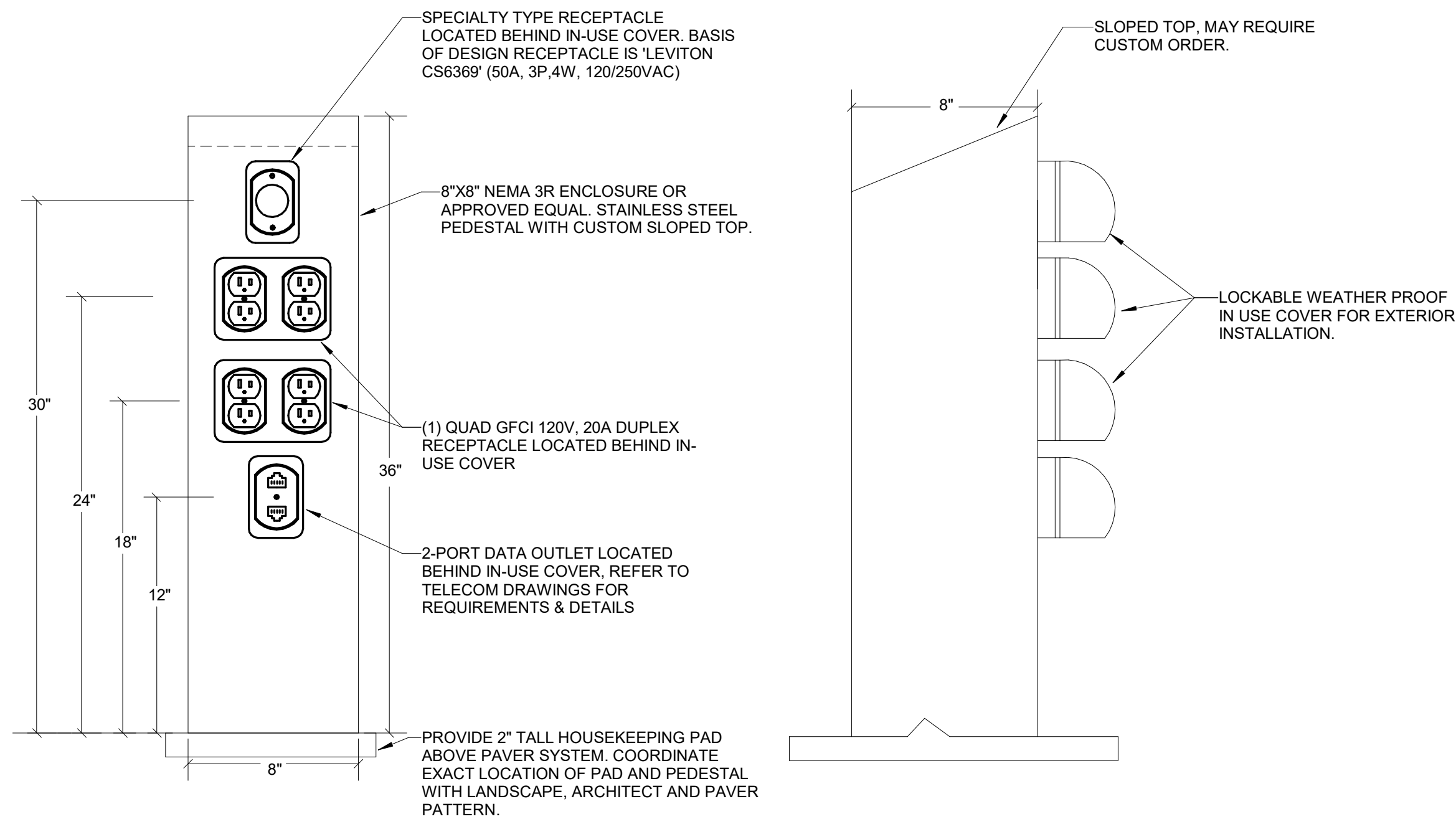
11 SEISMIC EXPANSION FITTING
NO SCALE



10 CONDUIT PENETRATION
NO SCALE

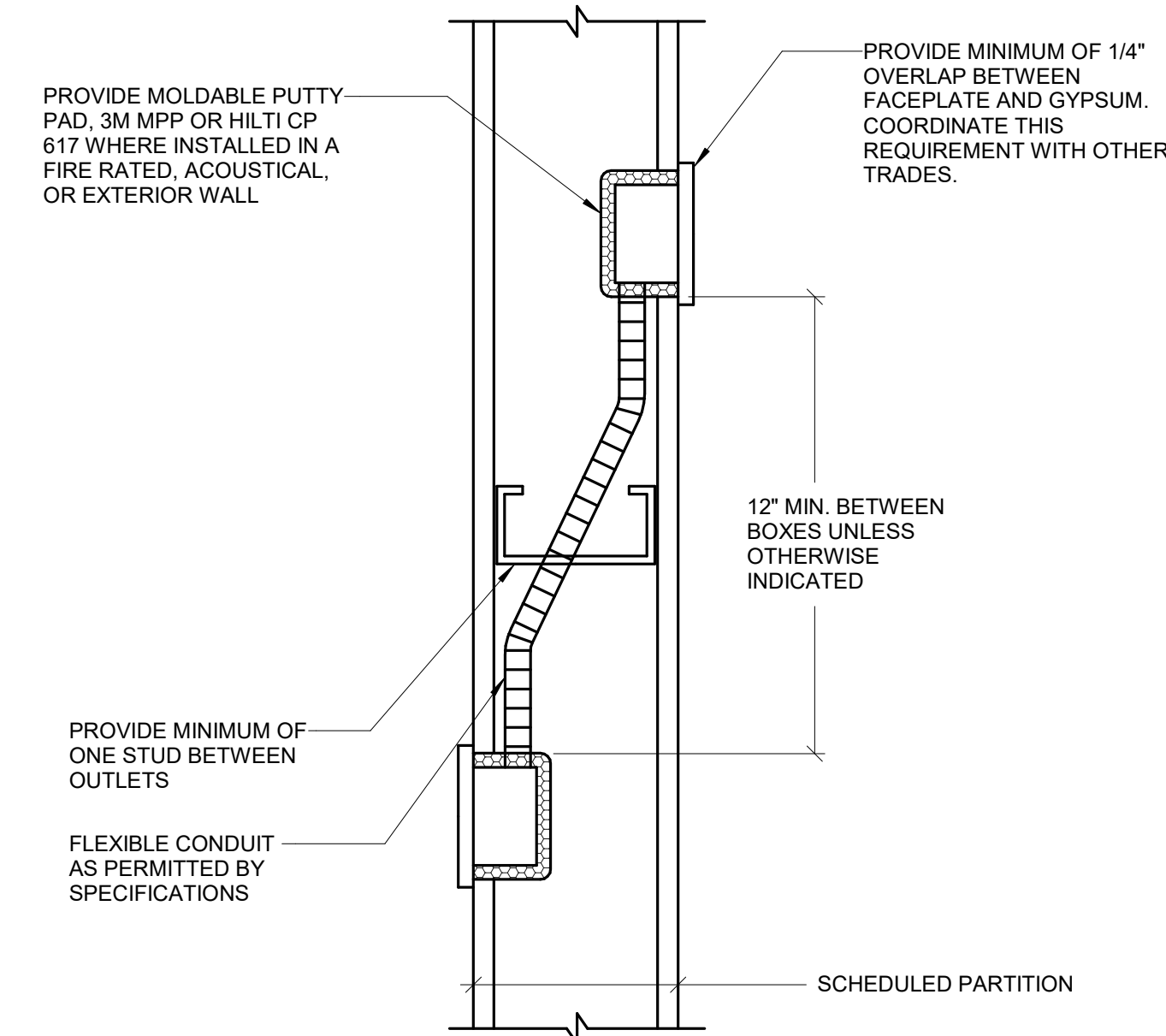


FLEX CONDUIT EXPANSION/DEFLECTION

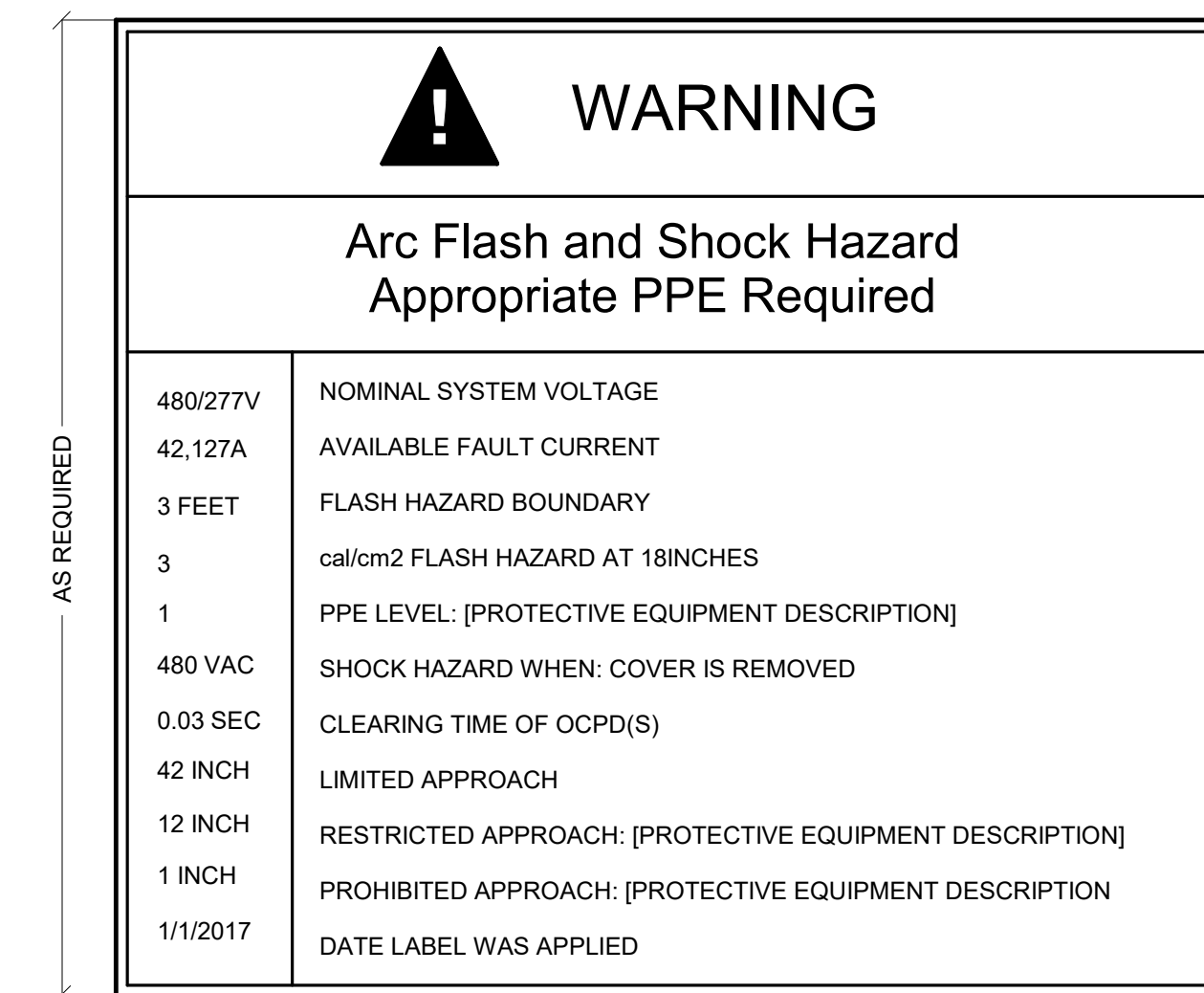


- NOTES:**
- ENCLOSURE SHALL BE A UL LISTED NEMA 3R TYPE, FABRICATED OF GALVANIZED STEEL.
 - FINISH COLOR SHALL BE GRAY.
 - THE ENTIRE ASSEMBLY SHALL BE UL LISTED.
 - THE BASIS OF DESIGN MANUFACTURER IS UNION CONNECTOR

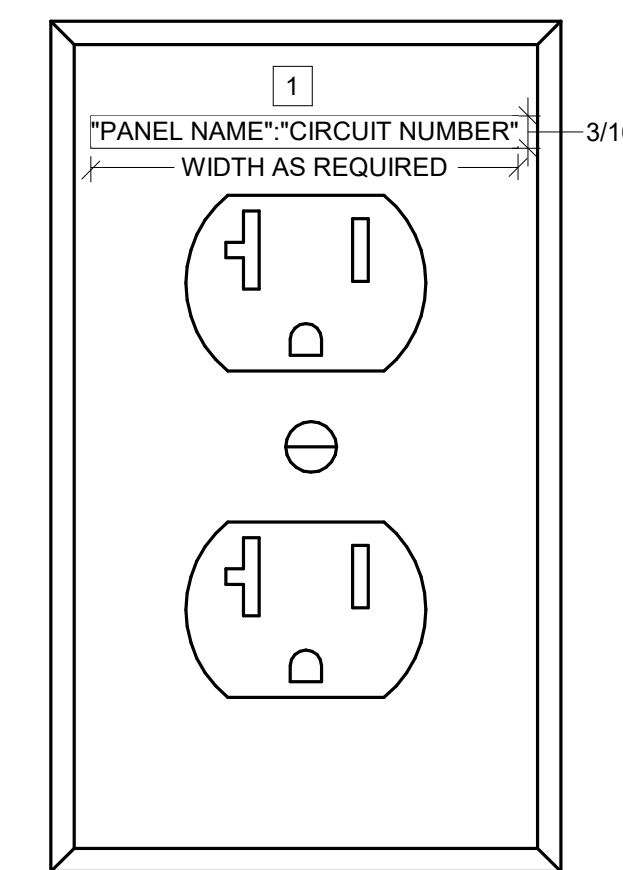
12 (DE) SITE POWER PEDESTAL - 36" (2) QUAD, CS6369, DATA
NO SCALE



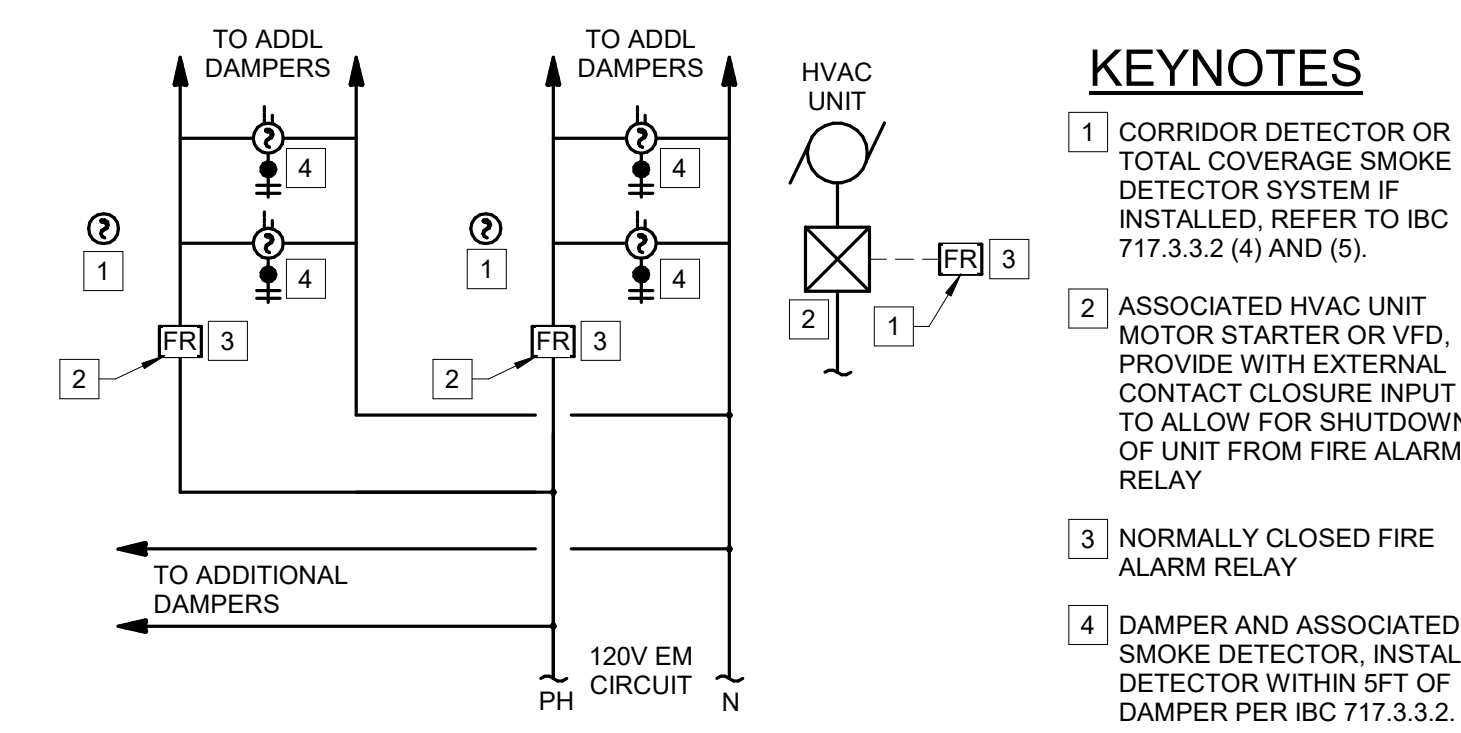
6 BACK TO BACK BOXES ARRANGEMENT-NOISE/FIRE RATING
NO SCALE



7 ARC FLASH LABEL
NO SCALE



8 RECEPTACLE IDENTIFICATION
NO SCALE



- SEQUENCE OF OPERATION:**
- UPON ACTIVATION OF A DUCT DETECTOR AT A HVAC UNIT, A DUCT DETECTOR ASSOCIATED WITH A DAMPER, CORRIDOR DETECTOR, OR TOTAL COVERAGE SMOKE DETECTOR:
- THE FIRE ALARM RELAY ASSOCIATED WITH THE HVAC UNIT WILL OPEN CAUSING THE UNIT TO SHUT DOWN.
 - THE FIRE ALARM RELAY AT THE DAMPER POWER CIRCUIT WILL OPEN CAUSING THE DAMPERS TO CLOSE (FAIL-SAFE DAMPERS).

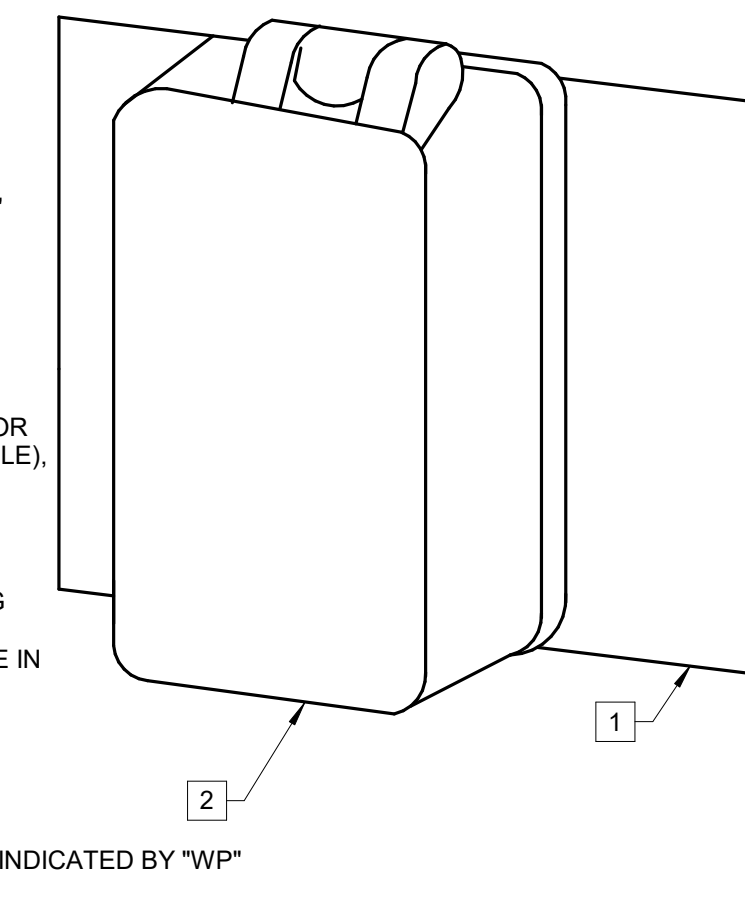
9 FIRE/SMOKE DAMPER
NO SCALE

GENERAL NOTES:

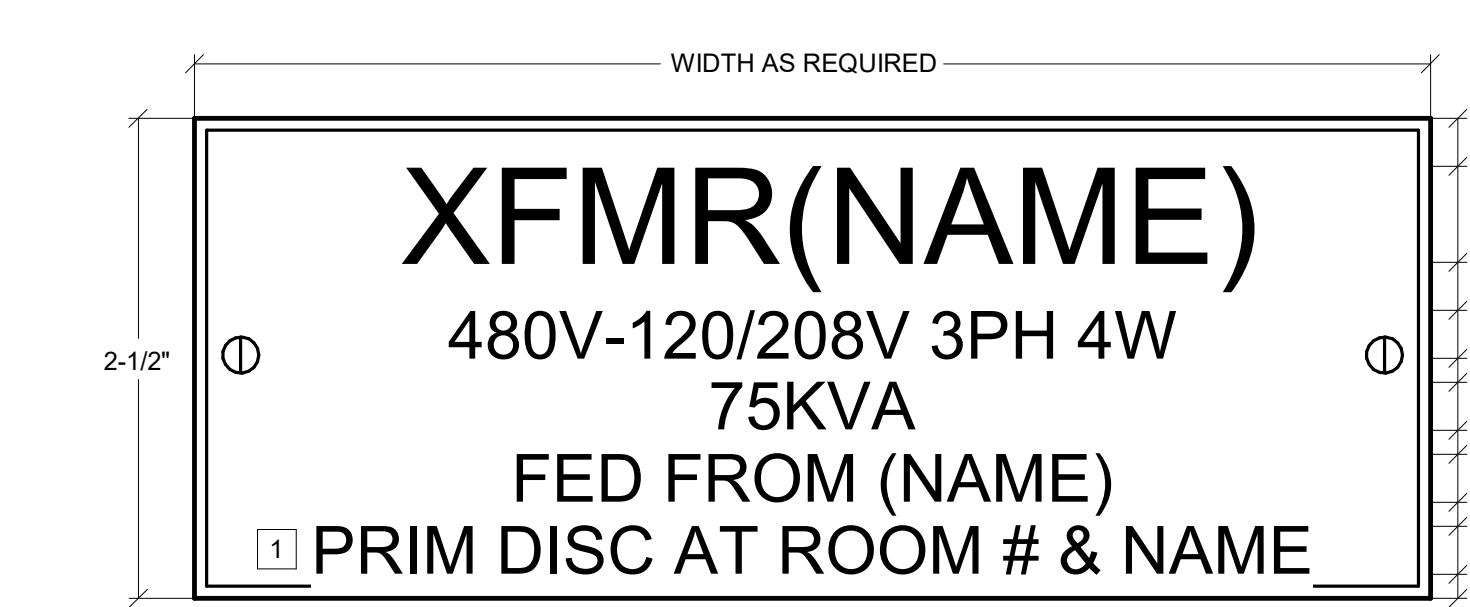
- CONTRACTOR SHALL PROVIDE WEATHER PROOF COVER FOR ALL DEVICES WITH "WP" INDICATED AS PART OF SYMBOL ON PLAN DRAWINGS, U.N.O.

KEYNOTES:

- BACK-BOX:** FLUSH MOUNTED BOX WITH SINGLE GANG OR DOUBLE GANG COVER PLATE (AS APPLICABLE), SHOWN FOR REFERENCE ONLY.
- COVER PLATE:** PROVIDE UL LISTED WEATHERPROOF CAST ALUMINUM SINGLE GANG OR DOUBLE GANG COVER (AS APPLICABLE) THAT WILL ALLOW FOR CABLES TO REMAIN PLUGGED IN WHILE IN THE CLOSED POSITION.

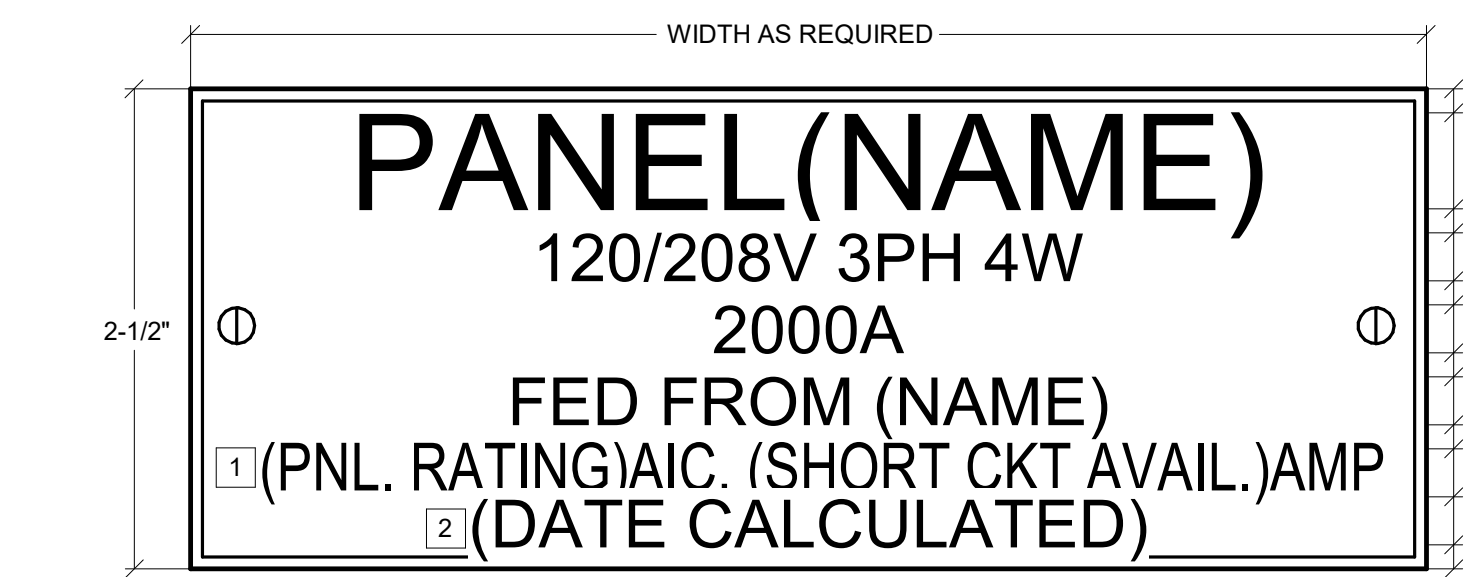


1 IN-USE WEATHER PROOF COVER
NO SCALE



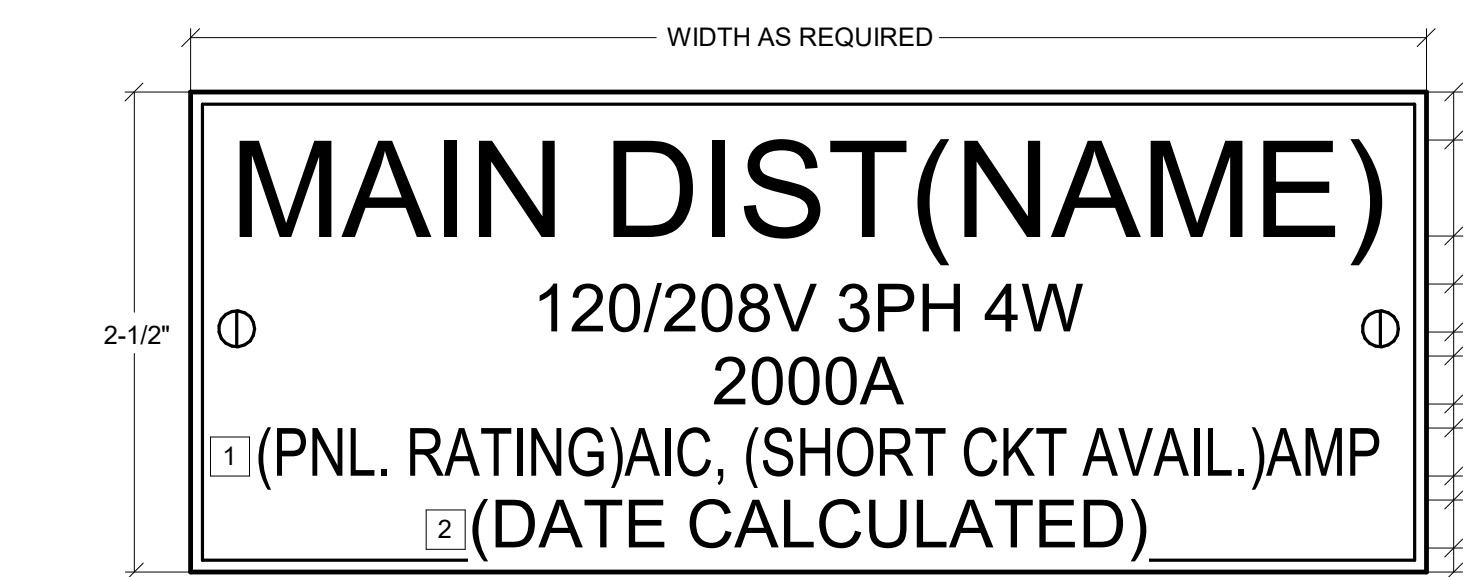
- NOTE:**
- SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.
 - INDICATE LOCATION OF PRIMARY DISCONNECT

2 TRANSFORMER NAMEPLATE
NO SCALE



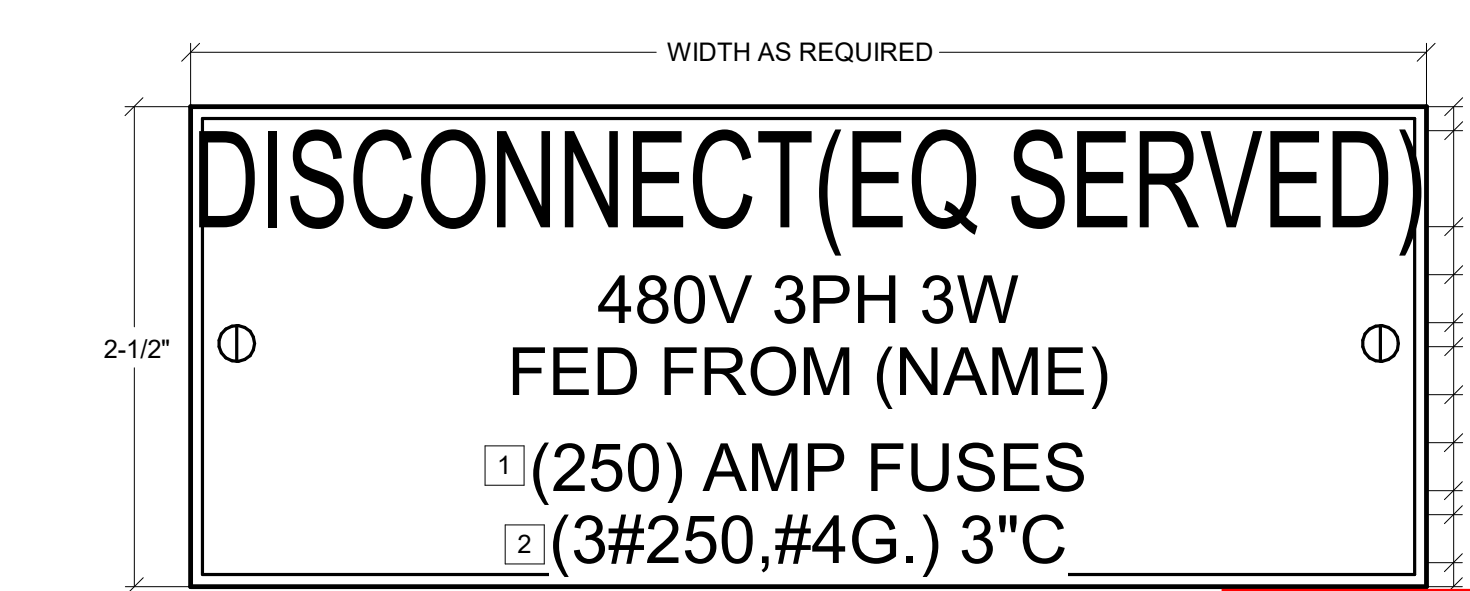
- NOTE:**
- SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.
 - INDICATE BUS BRACING VALUE AND AVAILABLE FAULT CURRENT.
 - PROVIDE AND INDICATE DATE OF CALCULATION.

3 SUB DIST. CENTER & BRANCH PANEL NAME PLATE
NO SCALE



- NOTE:**
- SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.
 - INDICATE BUS BRACING VALUE AND AVAILABLE FAULT CURRENT.
 - PROVIDE AND INDICATE DATE OF CALCULATION.

4 MAIN DIST. CENTER NAMEPLATE
NO SCALE



- NOTE:**
- SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.
 - INDICATE FUSE SIZE, IF APPLICABLE.
 - INDICATE BRANCH CIRCUIT WIRE SIZE.

5 DISCONNECT NAMEPLATE
NO SCALE

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Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name
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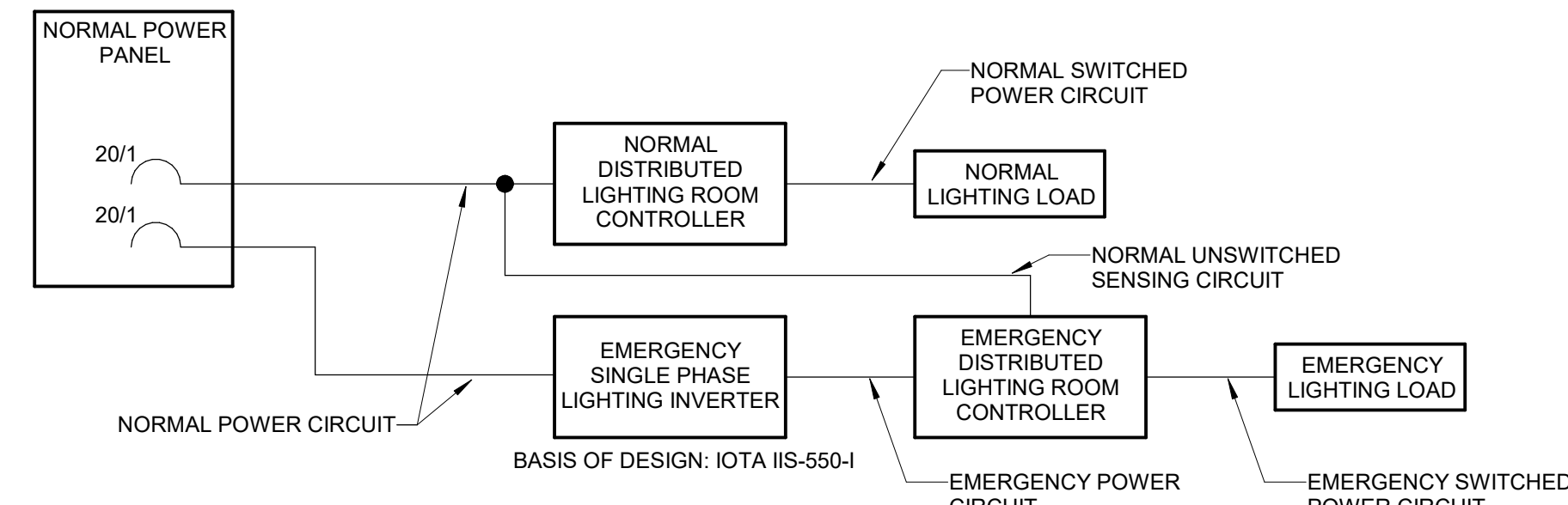
Project Number
003.7835.000

Description
GOLD WALK - ELECTRICAL DETAILS

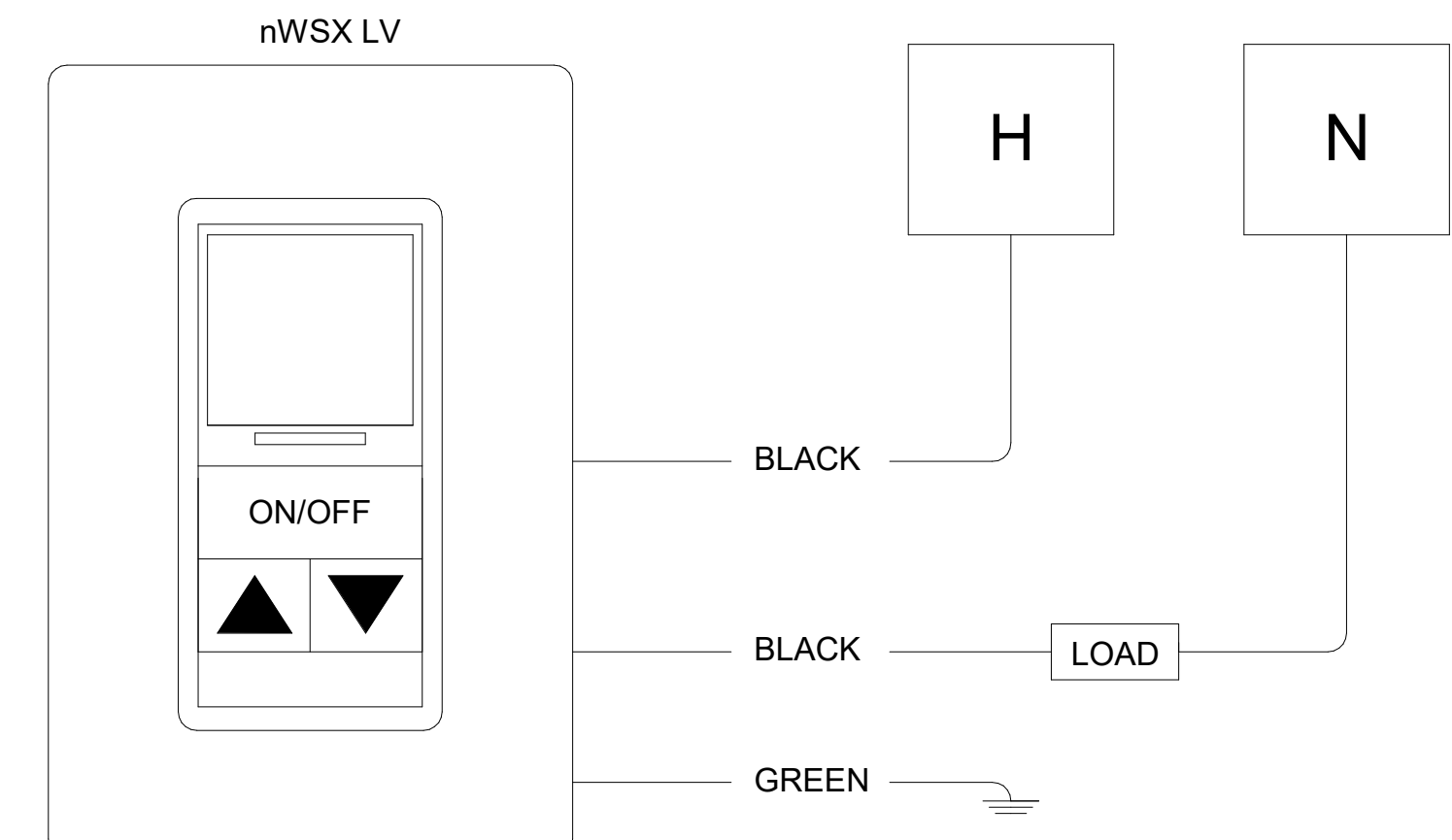
Scale
NO SCALE

1B-E8.001

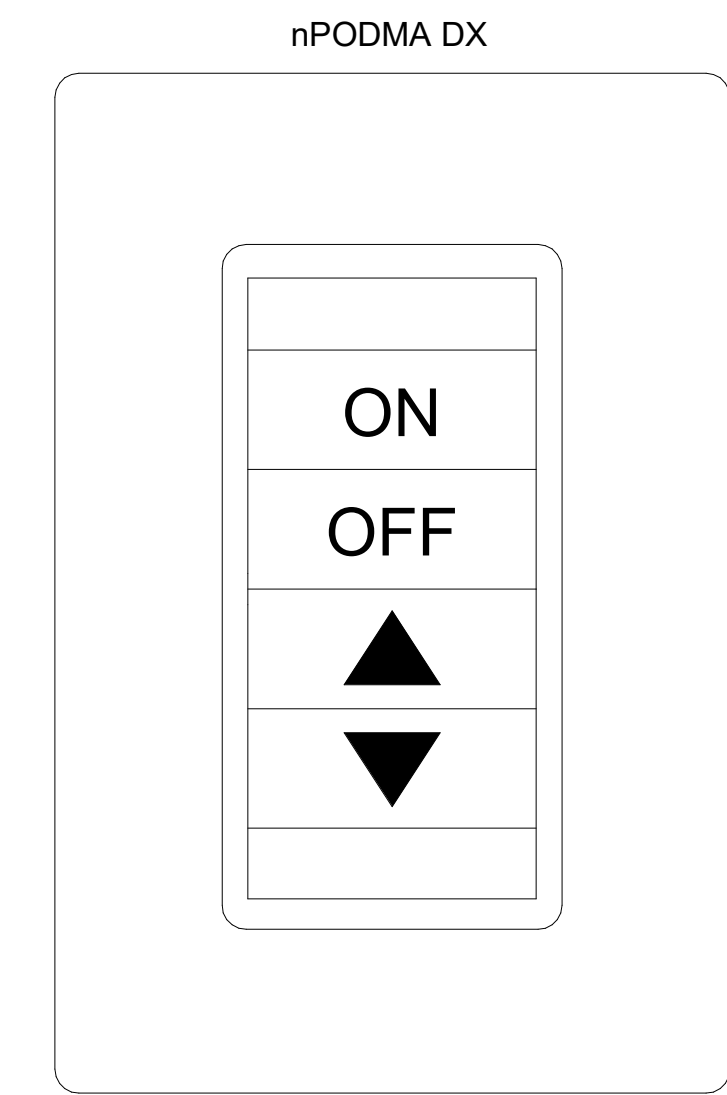
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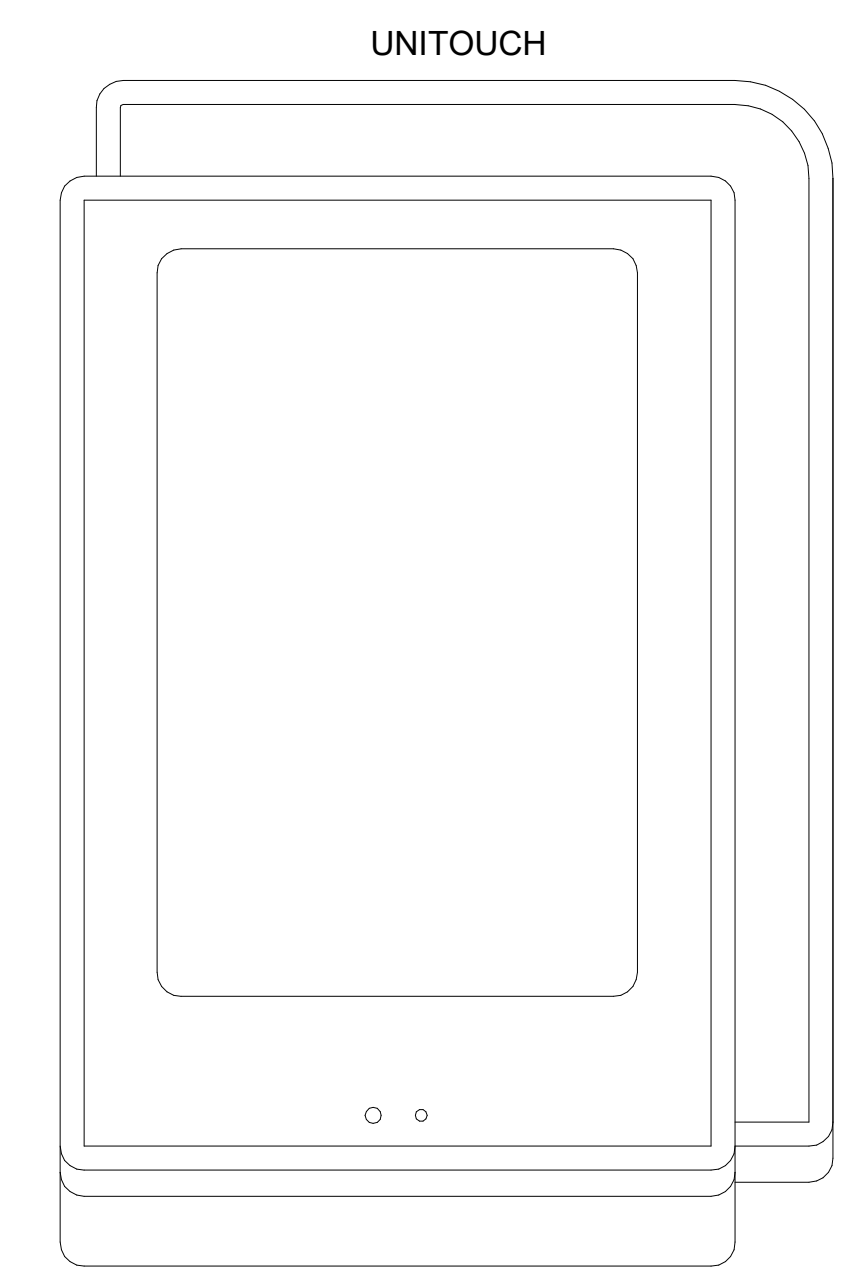
10 EMERGENCY LIGHTING INVERTER WIRING DIAGRAM
NO SCALE



9 WALL SWITCH - 1 POLE, AUTO ON/OFF
NO SCALE

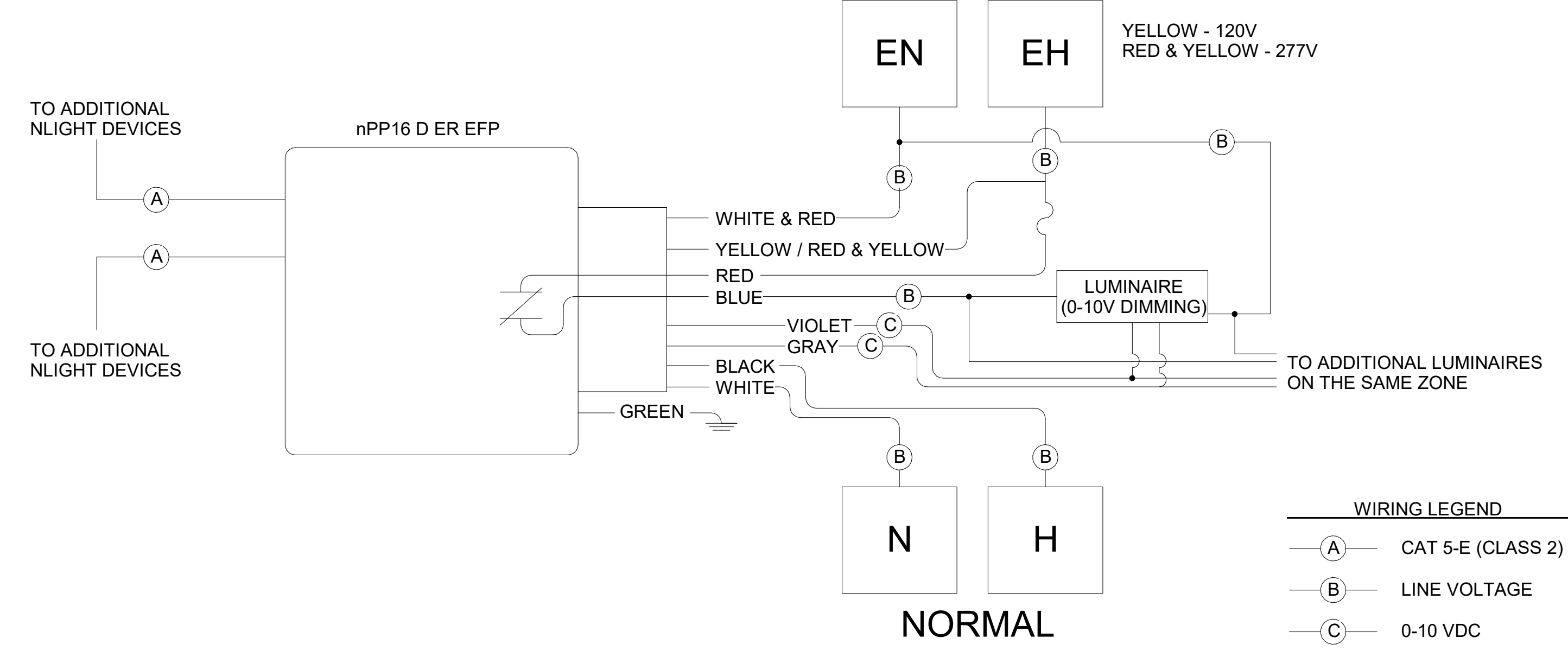


5 SINGLE ZONE DIMMER
NO SCALE

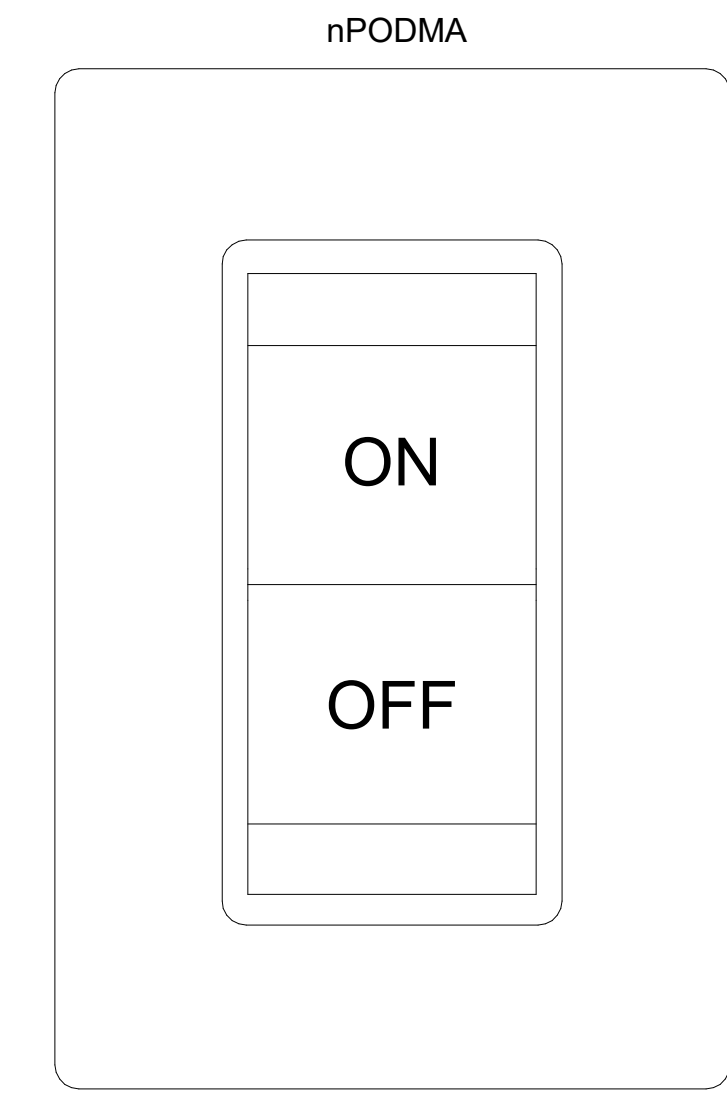


1 3.5" TOUCHSCREEN
NO SCALE

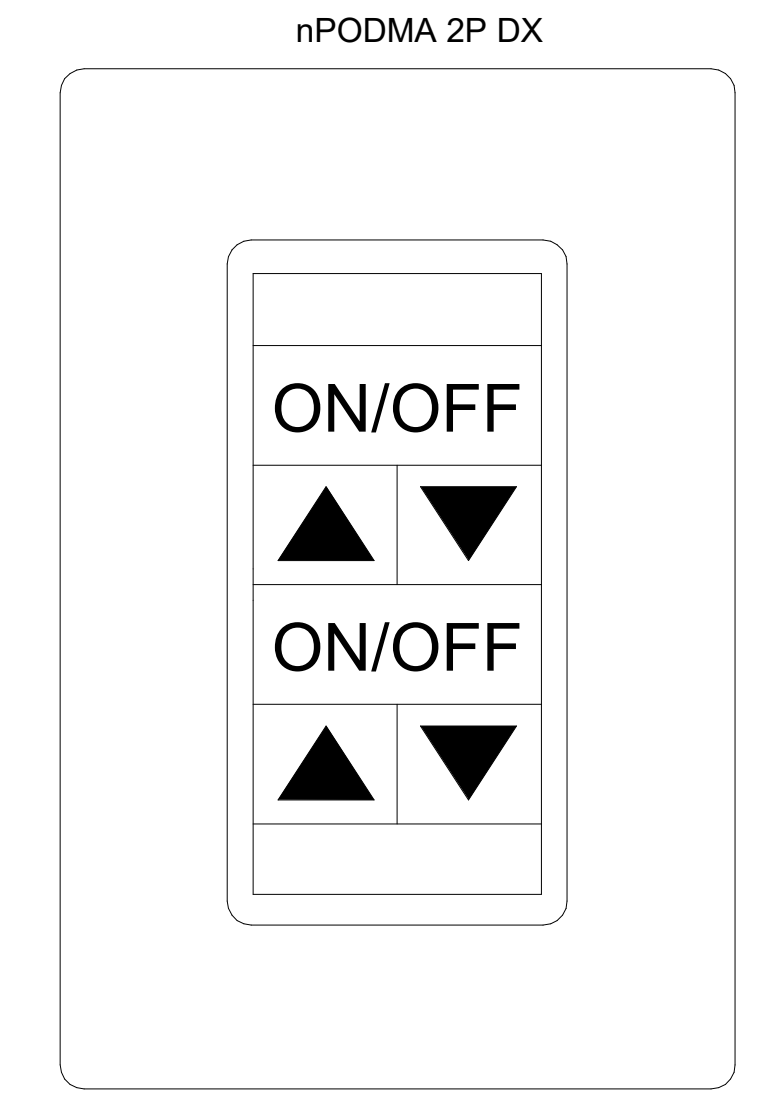
EMERGENCY



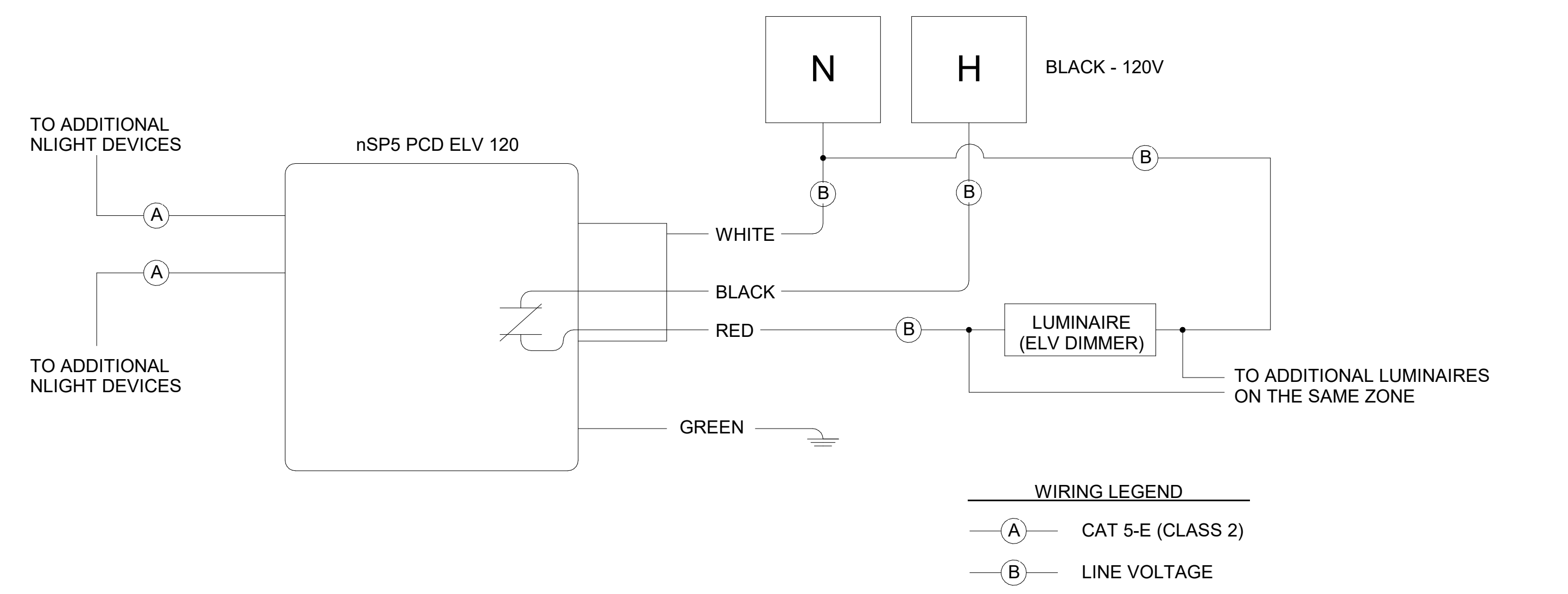
11 TYPICAL WIRING DIAGRAM: NPP16 D ER EFP
NO SCALE



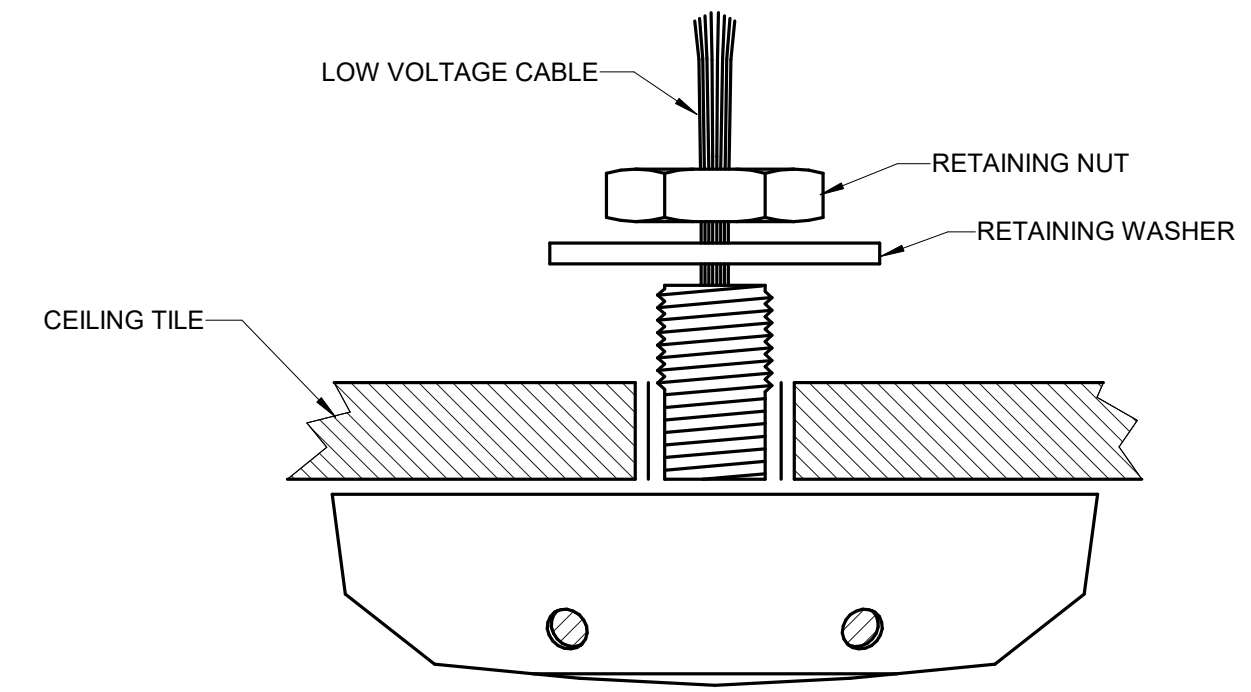
6 SINGLE ZONE SWITCH
NO SCALE



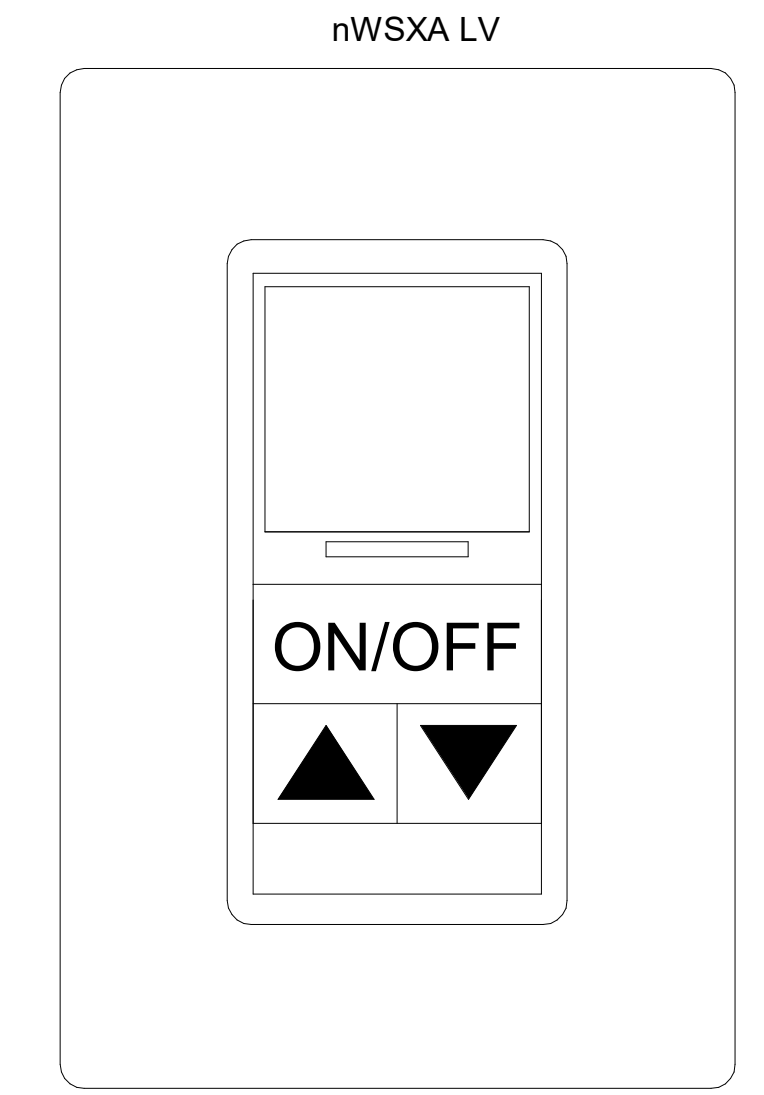
2 MULTI-ZONE DIMMER
NO SCALE



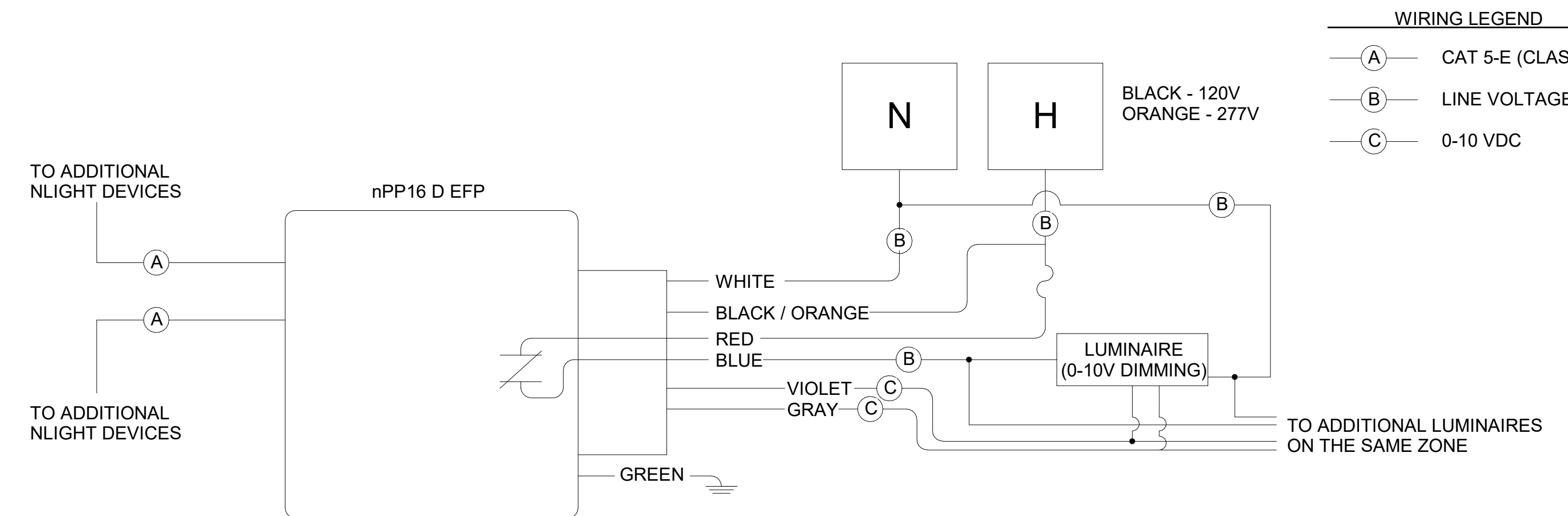
12 TYPICAL WIRING DIAGRAM: NSP5 PCD ELV 120
NO SCALE



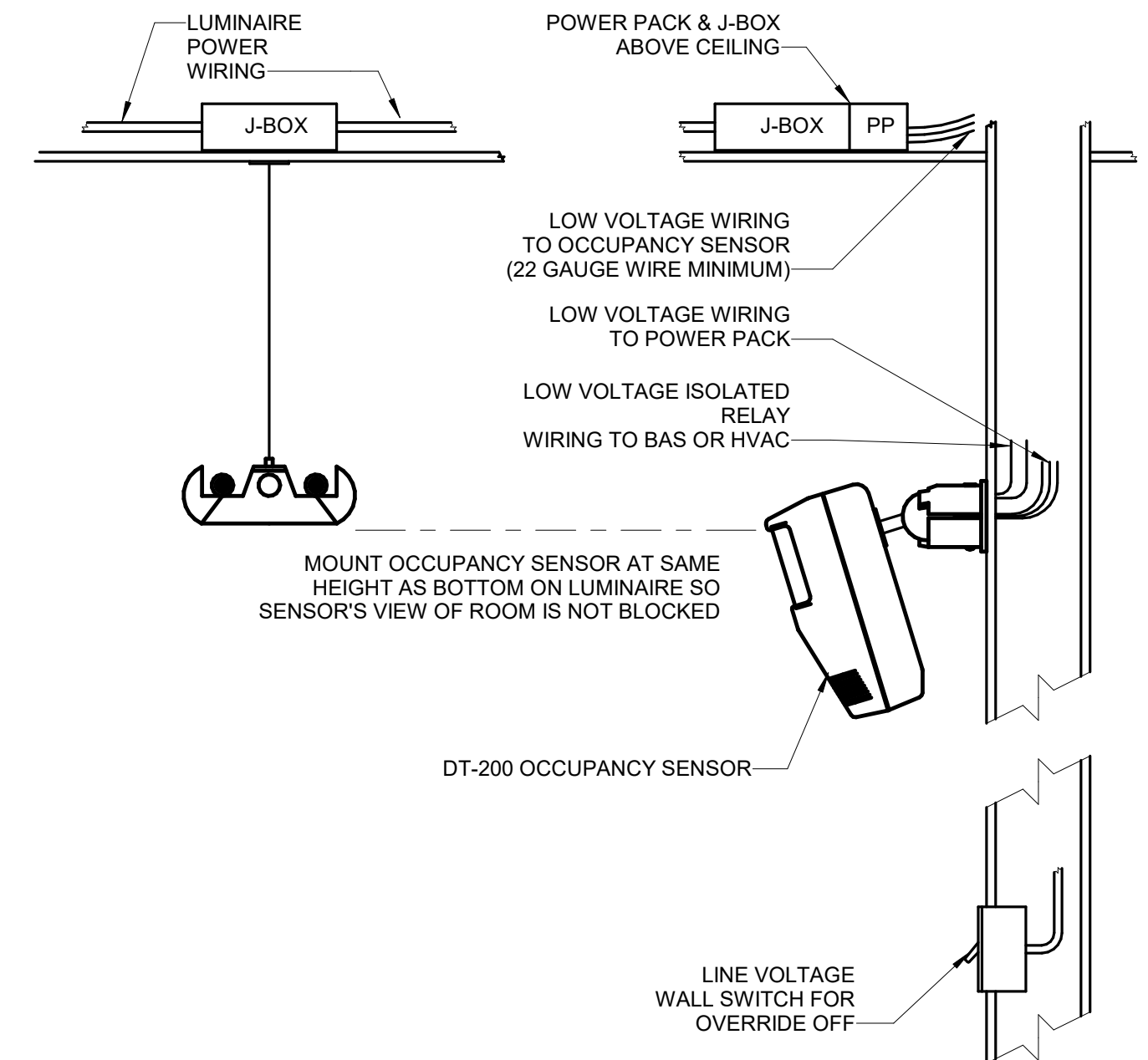
8 SENSOR - CEILING MOUNTED
NO SCALE



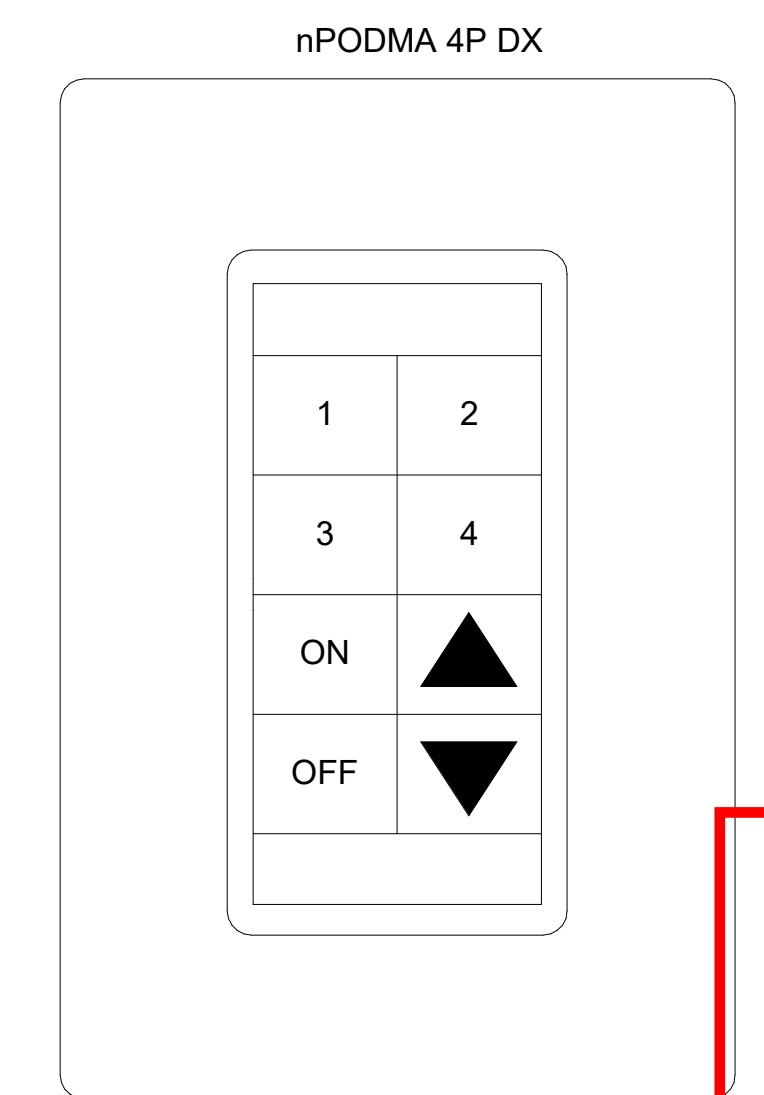
3 OCCUPANCY SENSOR & DIMMER
NO SCALE



13 TYPICAL WIRING DIAGRAM: NPP16 D EFP
NO SCALE



7 SENSOR - WALL MOUNTING
NO SCALE



4 SCENE SELECTOR & DIMMER
NO SCALE

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Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name

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Project Number

003.7835.000

Description

GOLD WALK - ELECTRICAL DETAILS

Scale
As indicated

1B-E8.002

ELECTRICAL EQUIPMENT CONNECTION SCHEDULE

GENERAL NOTES:

1. THIS SCHEDULE IS FOR ELECTRICAL EQUIPMENT CONNECTIONS ONLY. EQUIPMENT BY OTHERS.
2. PROVIDE A DEDICATED CIRCUIT WITH A DEDICATED NEAUTRAL FOR ALL EQUIPMENT UNLESS OTHERWISE NOTED.
3. CONFIRM ALL EQUIPMENT LOCATIONS AND ELEVATIONS PRIOR TO ROUGH-IN.
4. CONFIRM ALL EQUIPMENT FEEDER, DISCONNECT AND FUSING WITH SUBMITTED/PURCHASED EQUIPMENT PRIOR TO ROUGH-IN.

REMARK NOTES:

- A. PROVIDE GFCI CIRCUIT BREAKER.
- B. COORDINATE LOCATION OF ELECTRICAL RECEPTACLE WITH FOUNTAIN ROUGH IN DRAWING RECOMMENDATIONS.

EQ #	EQUIPMENT DESCRIPTION	HP	LOAD (VA)	VOLTAGE	PHASE	FLA	DISCONNECT	FUSE	FEEDER	CONDUIT	REMARKS
2	GARBAGE DISPOSAL	-	1440	120 V	1	12 A	-	-	2 #12 & #12 GND	3/4"	
3	COPIER	-	1560	120 V	1	13 A	-	-	2 #12 & #12 GND	3/4"	
4	DISHWASHER	-	1560	120 V	1	13 A	-	-	2 #12 & #12 GND	3/4"	
5	DRINKING FOUNTAIN	-	600	120 V	1	5 A	-	-	2 #12 & #12 GND	3/4"	A, B
6	MICROWAVE	-	1560	120 V	1	13 A	-	-	2 #12 & #12 GND	3/4"	
7	REFRIGERATOR	-	720	120 V	1	6 A	-	-	2 #12 & #12 GND	3/4"	
9	UNDERCOUNTER REFRIGERATOR	-	360	120 V	1	3 A	-	-	2 #12 & #12 GND	3/4"	
12	SKI BOOT DRYER (DOUBLE CONNECTION)	-	156	120 V	1	1 A	-	-	2 #12 & #12 GND	3/4"	
12A	SKI BOOT DRYER - WALL CONNECTION	-	156	120 V	1	1 A	-	-	2 #12 & #12 GND	3/4"	
13	GAS COMMERCIAL DRYER	-	1440	120 V	1	12 A	30A/1P	-	2#12 & #12 GND	3/4"	
14	COMMERCIAL WASHER	-	3328	208 V	1	16 A	-	-	3 #12 & #12 GND	3/4"	
14A	RESIDENTIAL STYLE WASHER	-	1800	120 V	1	15 A	-	-	2#12 & #12 GND	3/4"	
15	COFFEE MAKER	-	1920	120 V	1	16 A	-	-	2 #12 & #12 GND	3/4"	
16	ICE/WATER DISPENSER	-	1440	120 V	1	12 A	-	-	2 #12 & #12 GND	3/4"	

LIGHT FIXTURE SCHEDULE

Type	Lamp	Description	Finish	Voltage	Mounting	Manufacturer	Catalog Number	Alternate 1	Alternate 2	Control	Location	Comments
L1	42W LED, 3000 LUMENS PER 4 FEET OF FIXTURE, 3500K, 80+ CRI, 50,000+ HOURS	LED STRIPLIGHT WITH DIFFUSE LENS, PROVIDE SURFACE OR PENDANT MOUNT SUPPORTS PER MOUNTING HEIGHT	WHITE	120-277	PENDANT TO 10 FT. AFF	LITHONIA	CLXL48-300LM-SEF-FDL	COOPER METALLUX SNLED SERIES	DAYBRITE FSS LED SERIES	ON/OFF	MEP, STORAGE	PROVIDE ADDITIONAL QUANTITY OF COMPLETE LIGHT FIXTURE, WITH A QTY OF 0.25% OF TOTAL QTY AND A MIN. QTY OF 2 FIXTURES.
L2	15 WATT LED, 600 LUMENS, 4000K.	WALL MOUNTED LED 'JELLY JAR' STYLE LIGHT FIXTURE WITH METAL GUARDING AROUND FIXTURE LENSING LIGHT SOURCE. LOW PROFILE, VAPOR TIGHT, LED LIGHT SOURCE.	STANDARD	MVOLT	WALL	LITHONIA	OLV1YW-	APPROVED ALTERNATE	APPROVED ALTERNATE	ON/OFF	GENERATOR YARD	
L3		NOT USED										
L3A		NOT USED										
L4	23W LED, 1800+ DELIVERED LUMENS, 3500K, 80+ CRI, 50000 HOURS	4" DIAMETER RECESSED FIXED DOWNLIGHT, 73 DEGREE WIDE BEAM DISTRIBUTION, MATTE-DIFFUSE REFLECTOR, 6-8 1/8" TALL NEW CONSTRUCTION HOUSING, INTEGRAL DRIVER.	STANDARD, TO BE CONFIRMED WITH ARCHITECT	120-277	RECESSED	GOTHAM	EV04-3520-AR-WD-LD-MVOLT-GZ10	COOPER PORTFOLIO SERIES	SIGNIFY CALCULITE SERIES	0-10V DIMMING	CORRIDORS	PROVIDE ADDITIONAL QUANTITY OF COMPLETE LIGHT FIXTURE, WITH A QTY OF 0.25% OF TOTAL QTY AND A MIN. QTY OF 2 FIXTURES.
L4A		NOT USED										
L4B		NOT USED										
L5	20W, 2000 LUMENS, 3500K, 85 CRI, 50,000 HOURS	4" DIAMETER CYLINDER DOWNLIGHT, 65 DEGREE WIDE BEAM DISTRIBUTION, MATTE-DIFFUSE REFLECTOR, 6-8 1/8" TALL NEW CONSTRUCTION HOUSING, INTEGRAL DRIVER.	WHITE (VERIFY WITH ARCH)	120-277	PENDANT	GOTHAM	EV04CC-3520-AR-LD-MVOLT-GZ10	COOPER PORTFOLIO SERIES	SIGNIFY CALCULITE SERIES	ELV / 0-10V DIMMING	CORRIDORS	
L5A		NOT USED										
L6		NOT USED										
L6A	9W/FT, 1250 LUMENS PER FOOT, 3500K, 80+ CRI, 50,000+ HOURS	3.44" WIDE X 2.72" DEEP LED STRIPLIGHT WITH DIFFUSE LENS, PROVIDE SURFACE OR PENDANT MOUNT SUPPORTS PER MOUNTING HEIGHT. LENGTH PER PLAN	WHITE, VERIFY WITH ARCHITECT	120-277	WALL	LITHONIA	CLXL24 2500LM SEF FDL	COOPER METALLUX SNLED SERIES	DAYBRITE FSS LED SERIES	0-10V DIMMING	STAIRS/ CORRIDORS	
L6B		NOT USED										
SITE FAÇADE												
S1	5903 LUMENS, 55W, 3000K, 80 CRI	SIMILAR TO F1, EXCEPT WALL MOUNTED	BLACK (VERIFY WITH ARCH)	120/277V	WALL	WE-EF	ASPS34 LED655-3526	APPROVED ALTERNATE	APPROVED ALTERNATE	0-10V DIMMING		ARM MOUNTED
S2	7.7W, 807 LUMENS, 3000K, 80 CRI	10.31" WIDE X 9.06" TALL X 4.52" DEEP RECESSED STEP LIGHT WITH TEMPERED GLASS LENS, ASSYMETRIC THROW, WET LOCATION RATED.	GREY METALLIC (VERIFY WITH ARCHITECT)	120-277V	RECESSED	WE-EF	QRI 354 LED - 616 1321	APPROVED ALTERNATE	APPROVED ALTERNATE	ON/OFF	STEPS	
S3	8W, 1080 LUMENS, 2700K, 80 CRI	3.8" DIAMETER SEMI-RECESSED LUMINAIRE WITH BLADE OPTICS FOR VERY TIGHT BEAM CONTROL. FIXTURE SHALL BE WET RATED FOR INSTALLATION WITHIN STONE WALL.	STAINLESS STEEL	120-277V	RECESSED	INTER-LUX	E84316-M	APPROVED ALTERNATE	APPROVED ALTERNATE	0-10V DIMMING	ESCALATOR CANOPY	
EMERGENCY												
X1	5W LED GREEN/RED	EDGE LIT EXIT SIGN, PROVIDE WHITE OR MIRROR BACKING BETWEEN PANELS - TBD. MOUNTING AND ARROWS, SINGLE OR DOUBLE FACE, WITH UNIVERSAL MOUNTING FOR ALL CONDITIONS PER PLAN DRAWINGS	BRUSHED ALUMINUM	277	UNIVERSAL	LITHONIA	LRP SERIES	COOPER	SIGNIFY		PREMIUM AREAS	VERIFY LETTER & BACKGROUND COLOR WITH LOCAL AHJ

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Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR PERMIT
2021.07.01	BP3: GOLDWALK - BULLETIN OF RESPONSES

CRBD
Record Set
TC
07/13/2021

Seal / Signature



Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

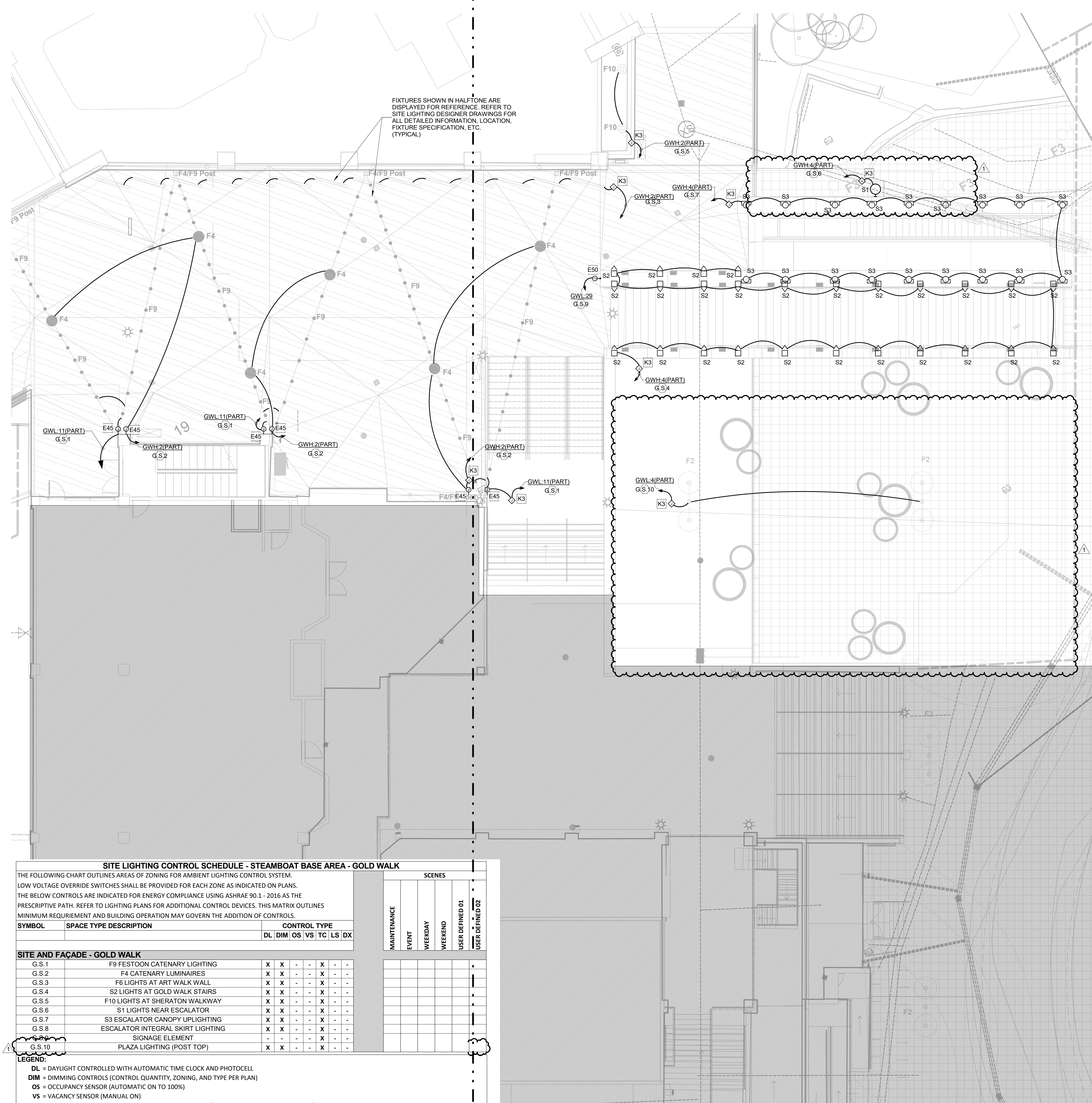
Description

ELECTRICAL EQUIPMENT CONNECTION AND LIGHT FIXTURE SCHEDULE

Scale

NOT TO SCALE

1B-E0.002



FIXTURES SHOWN IN HALFTONE ARE DISPLAYED FOR REFERENCE. REFER TO SITE LIGHTING DESIGNER DRAWINGS FOR ALL DETAILED INFORMATION, LOCATION, FIXTURE SPECIFICATION, ETC. (TYPICAL)

GENERAL NOTES:

- REFER TO SHEET 1B-E0.002 FOR LIGHTING FIXTURE SCHEDULE.
- REFER TO LANDSCAPE DRAWINGS FOR ALL SITE FIXTURE LOCATIONS MOUNTED IN HARDSCAPE OR SOFTSCAPE. FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN CENTER, OR SPACE, FIXTURES BETWEEN ARCHITECTURAL AND LANDSCAPE ELEMENTS.
- ALL LANDSCAPE OR EXTERIOR BUILDING LIGHTING SHALL BE CONTROLLED VIA THE LIGHTING CONTROL SYSTEM.
- REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR ALL FIXTURE LOCATIONS ON THE EXTERIOR OF THE BUILDING. FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN CENTER, OR SPACE, FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS.
- PROVIDE A MINIMUM 1" PVC CONDUIT FOR ALL UNDERGROUND BRANCH CIRCUITS. ALL 90DEGREE ELBOWS SHALL BE PVC COATED RIGID.
- ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.

KEYNOTES

E45 PROVIDE ELECTRICAL CONNECTION TO CATENARY TYPE LIGHT FIXTURE SUSPENDED ABOVE GOLD WALK FROM THIS SIDE OF THE GOLD WALK. STRUCTURAL SUPPORTS ARE NOT ACCESSIBLE FOR ELECTRICAL CONNECTIONS ON THE OTHER SIDE OF THE GOLD WALK. IF SURFACE MOUNTED CONDUIT FROM BELOW IS REQUIRED TO SERVE THESE LIGHTS, CONDUIT AND BACK BOXES SHALL BE PAINTED TO MATCH EXTERIOR FACADE.

E50 PROVIDE 120V/20A CONNECTION TO SIGNAGE ELEMENT. REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR EXACT LOCATION. VERIFY ELECTRICAL CONNECTION TYPE WITH MANUFACTURER SIGNAGE SUBMITTALS.

K3 PROVIDE SINGLE ZONE DISTRIBUTED ROOM CONTROLLER FOR LIGHTING CONTROL WITHIN THIS SPACE. ROOM CONTROLLER SHALL HAVE ON/OFF RELAY CONTROL AND DIMMING FUNCTIONALITY. LOCATE ROOM CONTROLLER IN ACCESSIBLE LOCATION NOT VISIBLE TO THE OCCUPANT SPACE. LOCATE ABOVE THE DOOR ENTERING INTO THE SPACE WHERE POSSIBLE AND CEILINGS ALLOW. REFER TO LIGHT FIXTURE SCHEDULE FOR EXACT DIMMING TECHNOLOGY BEING USED ON A PER LIGHT FIXTURE BASIS. PROVIDE NETWORK CONNECTION FOR THIS ROOM CONTROLLER TO THE OVERALL NETWORKED LIGHTING CONTROL SYSTEM. REFER TO DETAIL 11/E0.002 FOR MORE INFORMATION.

SITE LIGHTING CONTROL SCHEDULE - STEAMBOAT BASE AREA - GOLD WALK

THE FOLLOWING CHART OUTLINES AREAS OF ZONING FOR AMBIENT LIGHTING CONTROL SYSTEM. LOW VOLTAGE OVERRIDE SWITCHES SHALL BE PROVIDED FOR EACH ZONE AS INDICATED ON PLANS. THE BELOW CONTROLS ARE INDICATED FOR ENERGY COMPLIANCE USING ASHRAE 90.1 - 2016 AS THE PRESCRIPTIVE PATH. REFER TO LIGHTING PLANS FOR ADDITIONAL CONTROL DEVICES. THIS MATRIX OUTLINES MINIMUM REQUIREMENT AND BUILDING OPERATION MAY GOVERN THE ADDITION OF CONTROLS.

SYMBOL	SPACE TYPE DESCRIPTION	CONTROL TYPE						MAINTENANCE EVENT	WEEKDAY	WEEKEND	USER DEFINED 01	USER DEFINED 02
		DL	DIM	OS	VS	TC	LS					
SITE AND FAÇADE - GOLD WALK												
G.S.1	F9 FESTOON CATENARY LIGHTING	X	X	-	-	X	-					
G.S.2	F4 CATENARY LUMINAIRES	X	X	-	-	X	-					
G.S.3	F6 LIGHTS AT ART WALK WALL	X	X	-	-	X	-					
G.S.4	S2 LIGHTS AT GOLD WALK STAIRS	X	X	-	-	X	-					
G.S.5	F10 LIGHTS AT SHERATON WALKWAY	X	X	-	-	X	-					
G.S.6	S1 LIGHTS NEAR ESCALATOR	X	X	-	-	X	-					
G.S.7	S3 ESCALATOR CANOPY UPLIGHTING	X	X	-	-	X	-					
G.S.8	ESCALATOR INTEGRAL SKIRT LIGHTING	X	X	-	-	X	-					
G.S.9	SIGNAGE ELEMENT	-	-	-	-	X	-					
G.S.10	PLAZA LIGHTING (POST TOP)	X	X	-	-	X	-					

LEGEND:
 DL = DAYLIGHT CONTROLLED WITH AUTOMATIC TIME CLOCK AND PHOTOCELL
 DIM = DIMMING CONTROLS (CONTROL QUANTITY, ZONING, AND TYPE PER PLAN)
 OS = OCCUPANCY SENSOR (AUTOMATIC ON TO 100%)
 VS = VACANCY SENSOR (MANUAL ON)
 TC = AUTOMATIC TIME CLOCK WITH LOW VOLTAGE OVERRIDE (SWITCH OR OCC. SENSOR PER PLAN)
 LS = LOW VOLTAGE SWITCH (ON/OFF ONLY)
 DX = DMX ADDRESSABLE FIXTURE. VERIFY WITH SPECIFIC FIXTURE SPEC FOR FIXTURE ADDRESS QUANTITY AND EM OVERRIDE REQUIREMENTS.

GENERAL NOTES:

- REFER TO LIGHTING DRAWINGS FOR OCCUPANCY/VACANCY SENSOR SPACES. PROVIDE QUANTITY AS REQUIRED FOR FULL COVERAGE OF ALL SPACES.
- PROVIDE ADDITIONAL RELAYS AS REQUIRED FOR AUTOMATIC RECEPTACLE CONTROL AS INDICATED ON ELECTRICAL DRAWINGS FOR ALL PRIVATE OFFICES, OPEN OFFICES, AND COMPUTER CLASSROOMS.
- ALL INTERIOR SPACES SHALL HAVE MANUAL LOCAL SWITCH/DIMMING CONTROLS OTHER THAN RESTROOMS AND PUBLIC CORRIDORS.

1 GOLD WALK ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"



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Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR PERMIT
1 2021.07.01	BP3: GOLDWALK - BULLETIN OF RESPONSES

CRBD
Record Set
TC
07/13/2021



Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
GOLD WALK - ELECTRICAL LIGHTING SITE PLAN

Scale
1/8" = 1'-0"

1B-E1.000

PLUMBING FIXTURE SCHEDULE - GOLDWALK

GENERAL NOTES:

1. PLUMBING DESIGN AND SIZES ARE BASED ON THE 2018 INTERNATIONAL PLUMBING CODE.
2. ALL EXPOSED PIPING SERVING PLUMBING FIXTURES THAT MAY BE USED FOR ADA PURPOSES SHALL HAVE TRAPS AND SUPPLIES INSULATED PER ADA REQUIREMENTS.
3. ALL FIXTURES ARE WHITE UNLESS OTHERWISE NOTED.
4. ALL PUBLIC ACCESS LAVATORY AND SINKS WILL HAVE AN ASSE 1070 APPROVED TEMPERING VALVE INSTALLED.

CODE	FIXTURE	DESCRIPTION	MIN CW CONN	MIN HW CONN	MIN SAN CONN	MIN VENT CONN	MANUFACTURER	FIXTURE MODEL NUMBER	MANUFACTURER	FAUCET / FLUSH VALVE MODEL NUMBER	REMARKS
AD-1	AREA DRAIN	TWO-STAGE AREA DRAIN: CAST IRON TOP BODY WITH 8" SQUARE NICKEL-BRONZE TOP; PERFORATED STAINLESS STEEL PERFORATED EXTENSION; CAST IRON BOTTOM BODY WITH FLASHING RING AND FLANGE, GRAVEL STOP, AND ALUMINUM DOME.	-	-	-	-	WADE	3358-1-DF-XNH	-	-	COORDINATE REQUIRED EXTENSIONS WITH INSTALLATION LOCATION PRIOR TO ORDERING; COORDINATE OUTLET SIZE WITH EACH LOCATION.
FD-1	FLOOR DRAIN	CAST IRON BODY FLOOR DRAIN WITH 5" NICKEL-BRONZE STRAINER; PROVIDE WITH JAY R. SMITH MODEL 2692 TRAP GUARD.	-	-	RE: PLANS	2"	JAY R. SMITH	2005Y-NB-A	-	-	-
FS-1	FLOOR SINK	12-1/2" SQUARE, 8" DEEP CAST IRON RECEPTOR FLOOR SINK WITH ACID RESISTANT COATED INTERIOR, POLISHED ALUMINUM DOME BOTTOM STRAINER, AND SECURED 1/2 GRATE.	-	-	SEE PLANS	SEE PLANS	JAY R. SMITH	3150Y-PDBS-12	-	-	-

SUMP PUMP SCHEDULE

GENERAL NOTES:

1. PROVIDE CHECK VALVE AND SHUTOFF VALVE ON EACH PUMP.
2. PROVIDE PREMIUM EFFICIENCY MOTORS (RELIANCE E+ OR EQUIVALENT) WITH MAGNETIC STARTER AND DRY CONTACTS.
3. ALL UNITS SHALL HAVE INTEGRAL DISCONNECT AND OVERCURRENT/SHORT CIRCUIT PROTECTION.

REMARK NOTES:

- A. PROVIDE POURED IN PLACE SUMP IN BOTTOM OF STAIR PIT.
- B. PROVIDE TYPE 4X SIMPLEX CONTROL PANEL.
- C. PROVIDE STANDARD TETHERED FLOAT SWITCH.

CODE	MANUFACTURER	MODEL NUMBER	SERVICE	TYPE	NO. OF PUMPS	FLOW (GPM)	PRESSURE (FT)	DISCHARGE (IN)	RPM	POWER(HP)	VOLT	PH	FLA	ELECTRICAL				REMARKS
														FUSE	DISC.	FEEDER		
ESP-1	WEIL	1411	ESCALATOR / STAIR PIT	SIMPLEX SUBMERSIBLE	1	50.00	20	2	1750	0.5	460	3	3.40	5A FRS -RK	30A/3P	(3#12.#12G) 3/4"C	A, B, C	

SAND/OIL INTERCEPTOR SCHEDULE

GENERAL NOTES:

1. UNITS SHALL MEET ALL REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.

REMARK NOTES:

- A. PREFABBED, DESIGN LOAD H-20 TRAFFIC.

CODE	DESCRIPTION	SERVICE	MANUFACTURER	MODEL NUMBER	WEIGHT (LBS)	CAPACITY (GAL)	LENGTH	WIDTH	HEIGHT	REMARKS
SOL-1	TWO CHAMBER PRECAST CONCRETE SAND/OIL INTERCEPTOR	ESP-1	COPELAND PRECAST	11010	11,300	320	6' - 10"	4' - 10"	4' - 2"	A



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Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR PERMIT

**RCRBD
Record Set
TC
06/29/2021**

Seal / Signature



05/18/2021

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

GOLD WALK - PLUMBING SCHEDULES

Scale

1B-P0.001

GENERAL NOTES:

- FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING, FIXTURES, AND EQUIPMENT SCHEDULED TO BE DEMOLISHED PRIOR TO COMMENSING WORK.
- FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING THAT REQUIRES CONNECTION TO NEW PRIOR TO COMMENSING WORK.
- REQUIRED PIPE SIZES ARE SHOWN NEXT TO KEY NOTE.
- PROVIDE BALL VALVE SHUTOFF AND 12"x12" ACCESS PANEL AT EACH SHOCK ABSORBER (SA). PANEL LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT.
- ALL CIRCUIT SETTERS SHALL BE SET AT 1.0 GPM UNLESS NOTED OTHERWISE.

KEY NOTES:

(SOME KEY NOTES MAY NOT APPLY TO THIS SHEET)

- SANITARY PIPING UP
- SANITARY PIPING DN
- SANITARY PIPING UP & DN
- GW PIPING UP
- GW PIPING DN
- GW PIPING UP & DN
- SANITARY VENT UP
- SANITARY VENT DN
- SANITARY VENT UP & DN
- CW PIPING UP
- CW PIPING DN
- CW PIPING UP & DN
- HW PIPING UP
- HW PIPING DN
- HW PIPING UP & DN
- HWC PIPING UP
- HWC PIPING DN
- HWC PIPING UP & DN
- CW & HW PIPING UP
- CW & HW PIPING DN
- CW & HW PIPING UP & DN
- GAS PIPING UP
- GAS PIPING DN
- GAS PIPING UP & DN
- STORM PIPING UP
- STORM PIPING DN
- STORM PIPING UP & DN
- OVERFLOW PIPING UP
- OVERFLOW PIPING DN
- OVERFLOW PIPING UP & DN
- OVERFLOW PIPING DOWN AND THRU WALL TO DOWNSPOUT NOZZLE +12" AFG
- SANITARY PIPING UP TO PLUMBING FIXTURES
- PIPING UP TO CLEANOUT
- 1/2" CW & HW TO EACH LAV/SK
- PIPING UP TO DRAIN
- 1/2" CW & HW DOWN TO SHOWER VALVE & 1/2" UP TO SHOWERHEAD

Date Description

- 2021.05.19 BP3: GOLDWALK - ISSUE FOR PERMIT

RCRBD
Record Set
TC
06/29/2021

Seal / Signature



05/18/2021

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

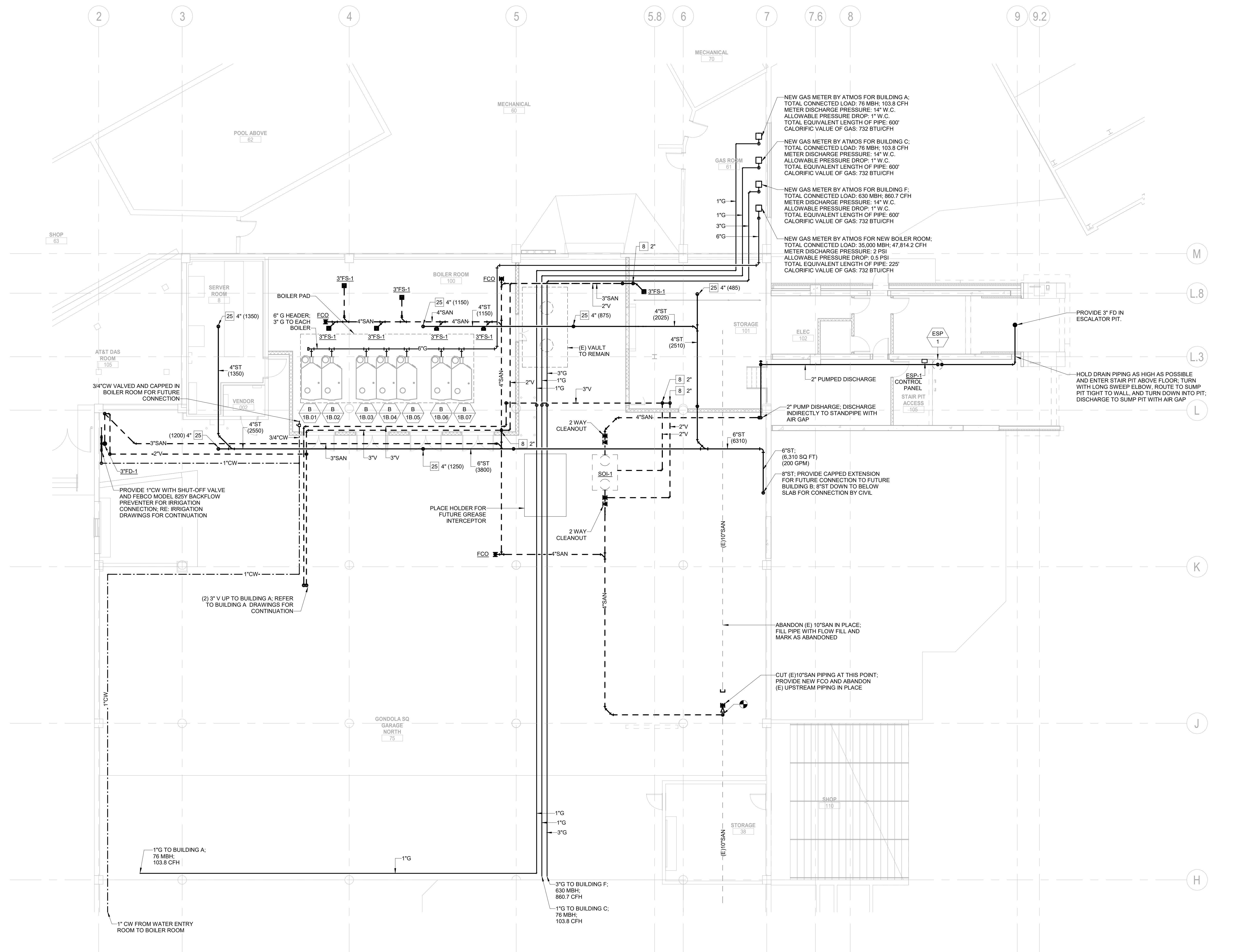
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GOLD WALK - PLUMBING PLAN - LEVEL 01

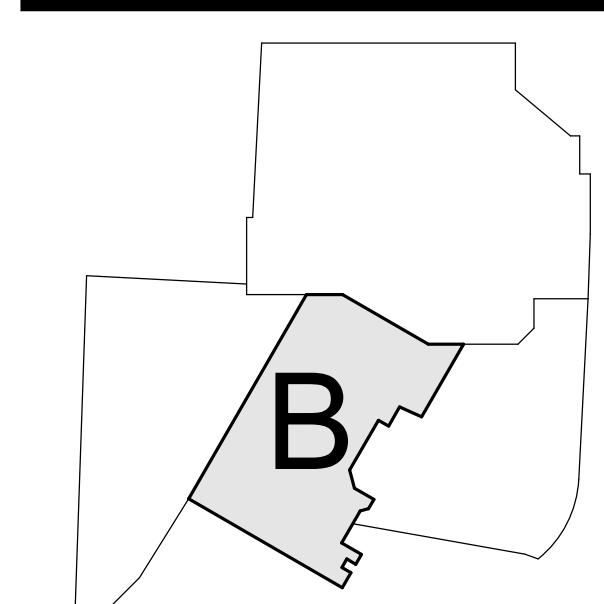
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1/8" = 1'-0"

1B-P1.201



KEY PLAN



GENERAL NOTES:

1. FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING, FIXTURES, AND EQUIPMENT SCHEDULED TO BE DEMOLISHED PRIOR TO COMMENSING WORK.
2. FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING THAT REQUIRES CONNECTION TO NEW PRIOR TO COMMENSING WORK.
3. REQUIRED PIPE SIZES ARE SHOWN NEXT TO KEY NOTE.
4. PROVIDE BALL VALVE SHUTOFF AND 12"x12" ACCESS PANEL AT EACH SHOCK ABSORBER (SA). PANEL LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT.
5. ALL CIRCUIT SETTERS SHALL BE SET AT 1.0 GPM UNLESS NOTED OTHERWISE.

KEY NOTES:
(SOME KEY NOTES MAY NOT APPLY TO THIS SHEET)

- 1 SANITARY PIPING UP
- 2 SANITARY PIPING DN
- 3 SANITARY PIPING UP & DN
- 4 GW PIPING UP
- 5 GW PIPING DN
- 6 GW PIPING UP & DN
- 7 SANITARY VENT UP
- 8 SANITARY VENT DN
- 9 SANITARY VENT UP & DN
- 10 CW PIPING UP
- 11 CW PIPING DN
- 12 CW PIPING UP & DN
- 13 HW PIPING UP
- 14 HW PIPING DN
- 15 HW PIPING UP & DN
- 16 HWC PIPING UP
- 17 HWC PIPING DN
- 18 HWC PIPING UP & DN
- 19 CW & HW PIPING UP
- 20 CW & HW PIPING DN
- 21 CW & HW PIPING UP & DN
- 22 GAS PIPING UP
- 23 GAS PIPING DN
- 24 GAS PIPING UP & DN
- 25 STORM PIPING UP
- 26 STORM PIPING DN
- 27 STORM PIPING UP & DN
- 28 OVERFLOW PIPING UP
- 29 OVERFLOW PIPING DN
- 30 OVERFLOW PIPING UP & DN
- 31 OVERFLOW PIPING DOWN AND THRU WALL TO DOWNSPOUT NOZZLE +12" AFG
- 32 SANITARY PIPING UP TO PLUMBING FIXTURES
- 33 PIPING UP TO CLEANOUT
- 34 1/2" CW & HW TO EACH LAV/SK
- 35 PIPING UP TO DRAIN
- 36 1/2" CW & HW DOWN TO SHOWER VALVE & 1/2" UP TO SHOWERHEAD

Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR PERMIT

RCRBD
Record Set
TC
06/29/2021

Seal / Signature



05/18/2021

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

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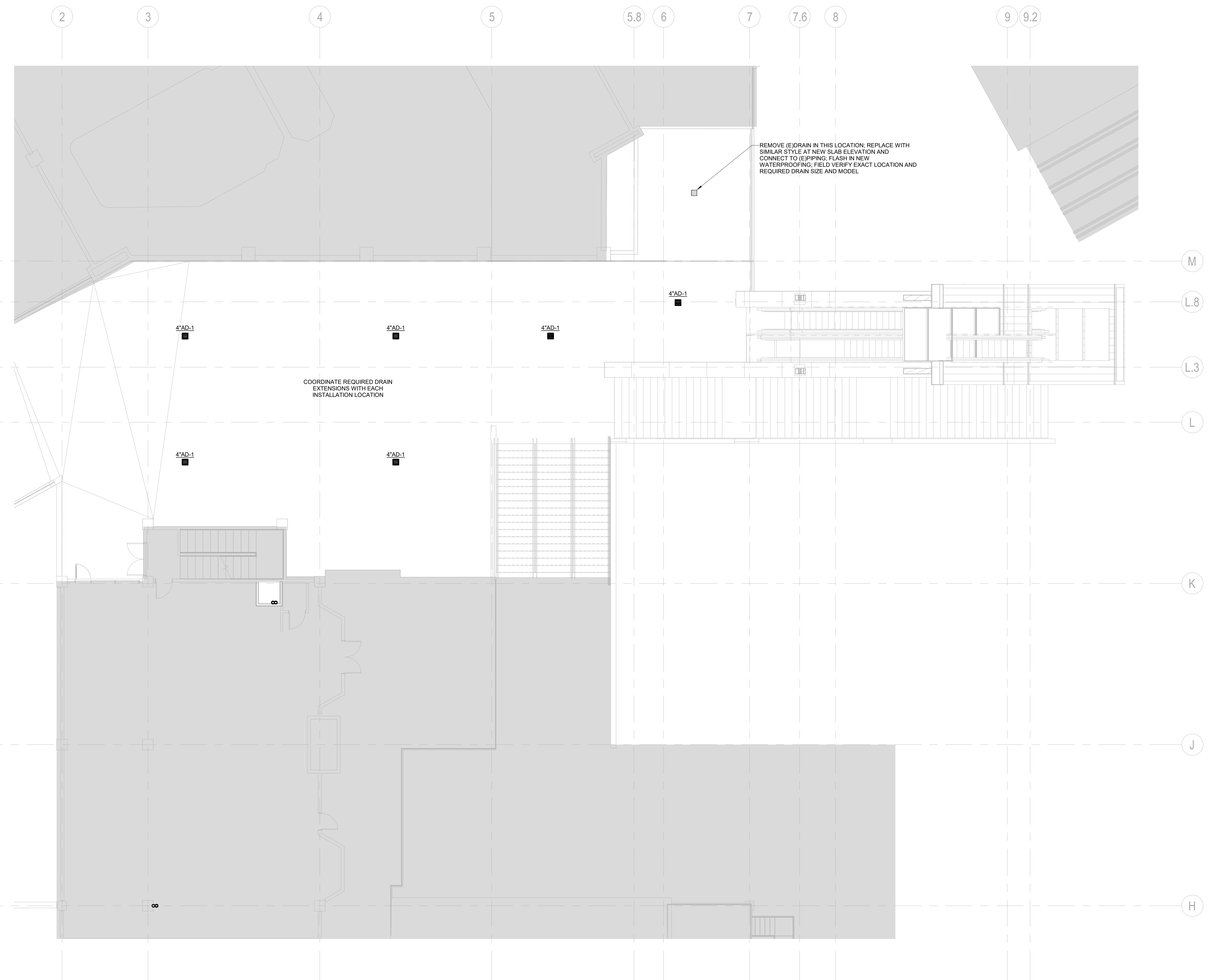
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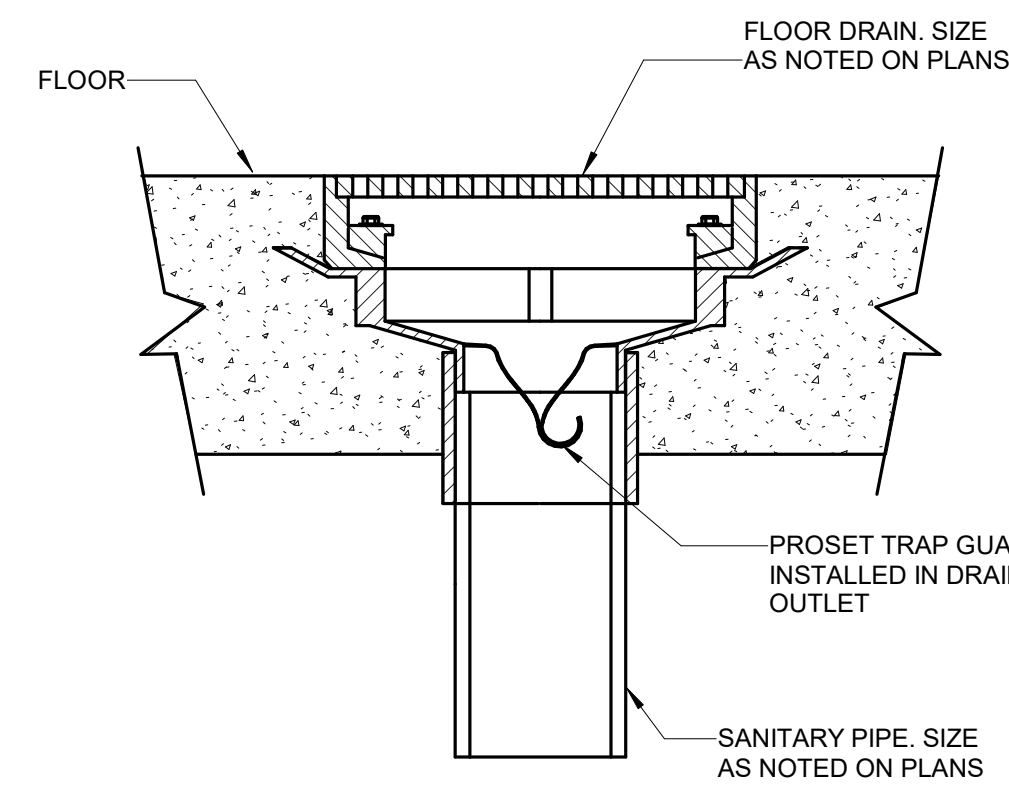
GOLD WALK - PLUMBING PLAN - LEVEL 03

Scale

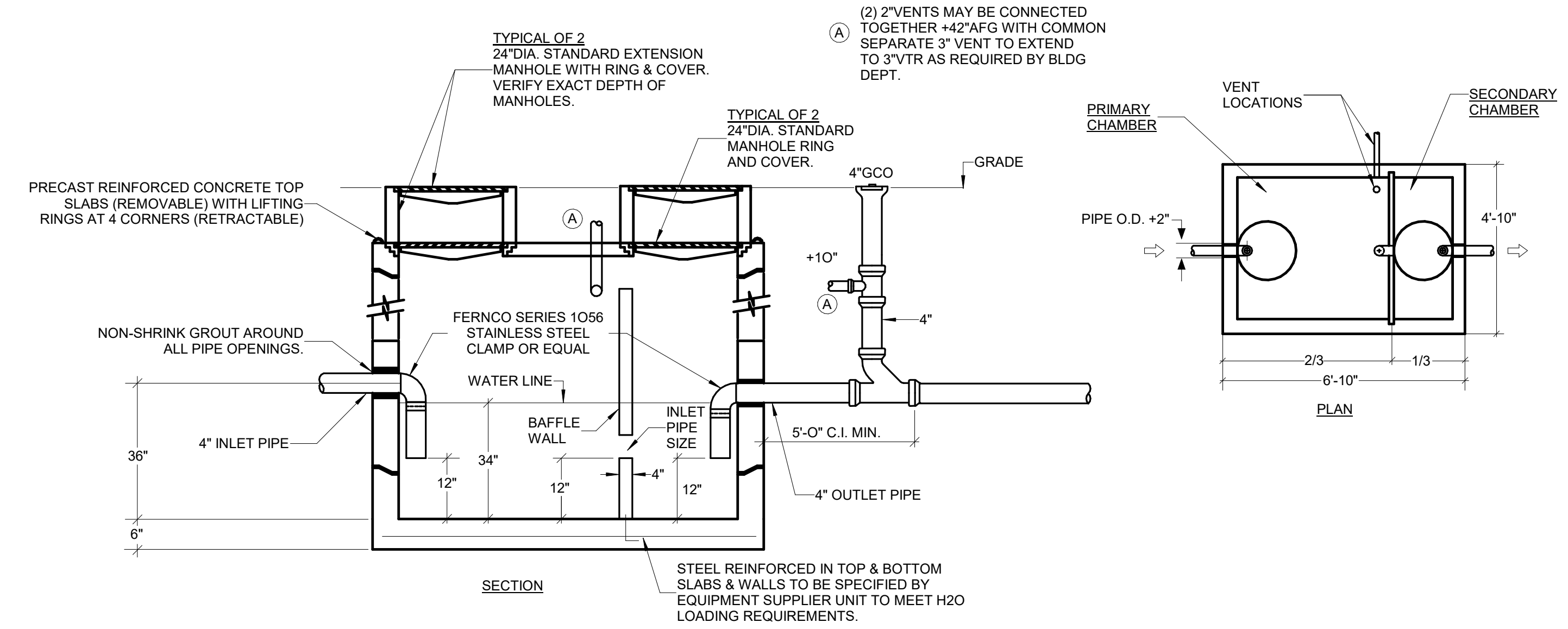
1/8" = 1'-0"

1B-P1.203

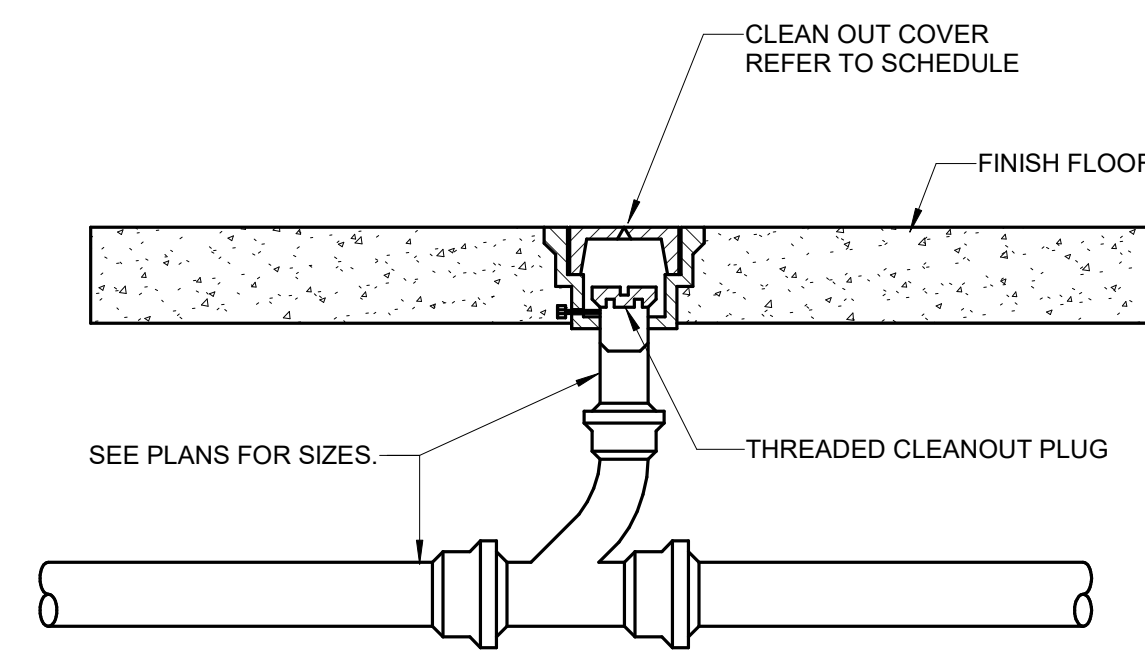




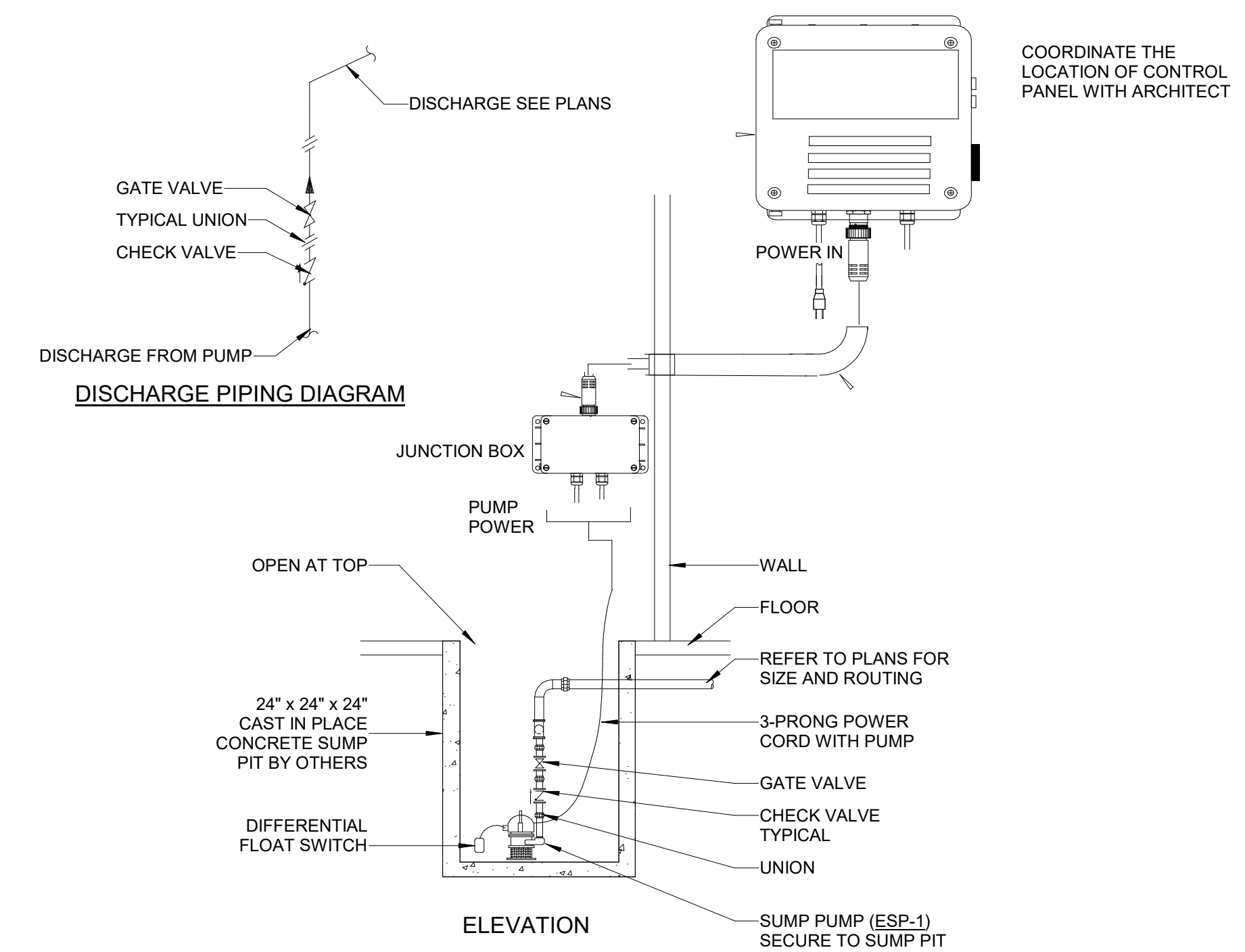
4 TRAP GUARD DETAIL
NO SCALE



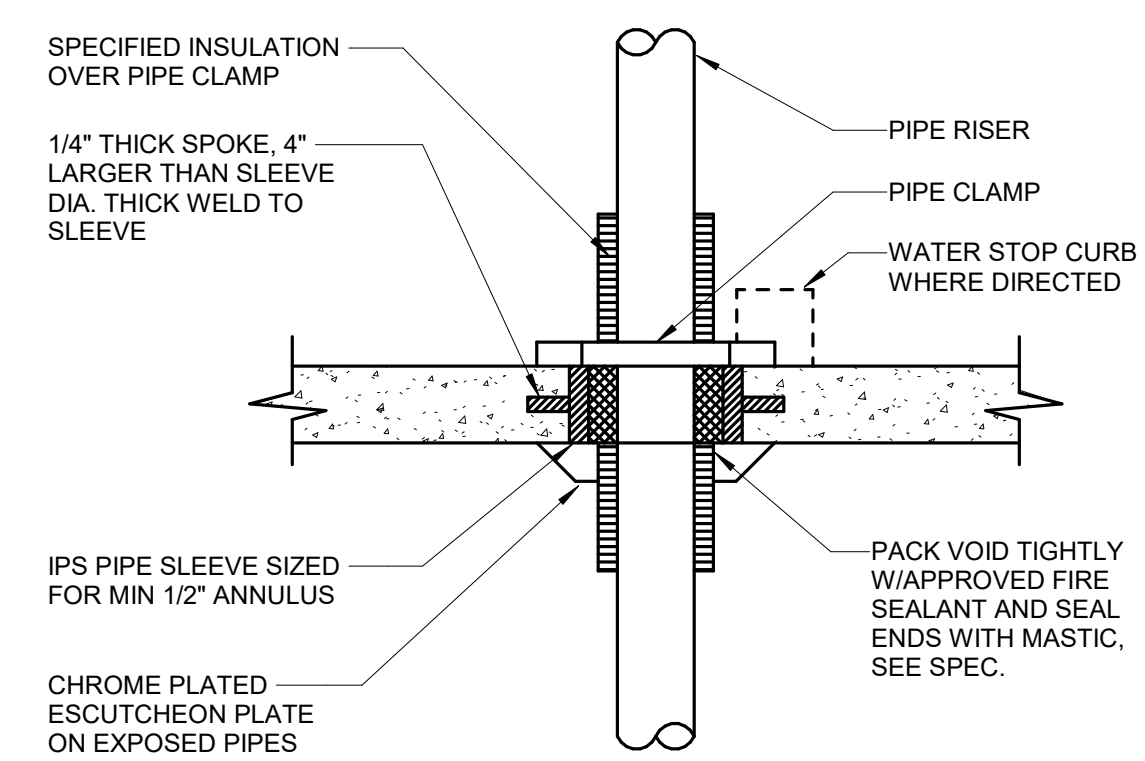
1 TWO COMPARTMENT SAND OIL INTERCEPTOR DETAIL
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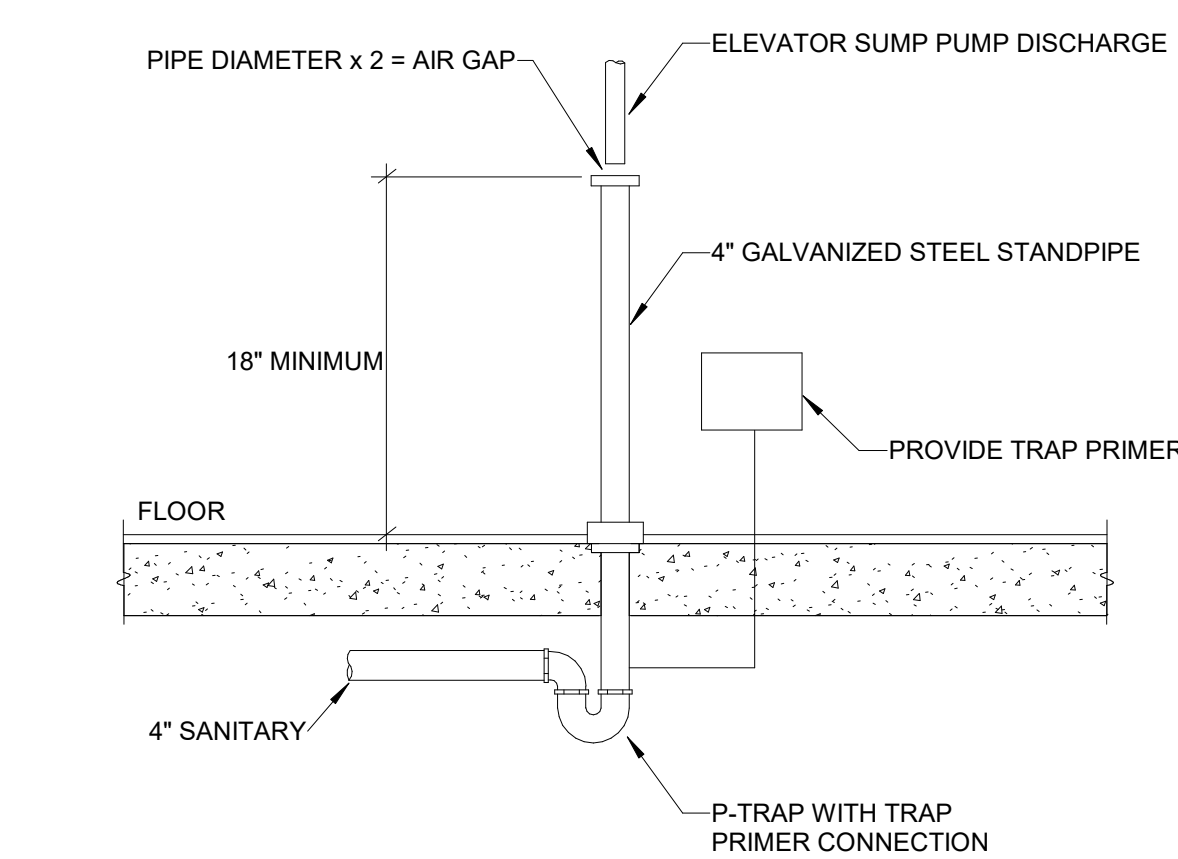
5 FINISHED FLOOR CLEANOUT INSTALLATION
NO SCALE



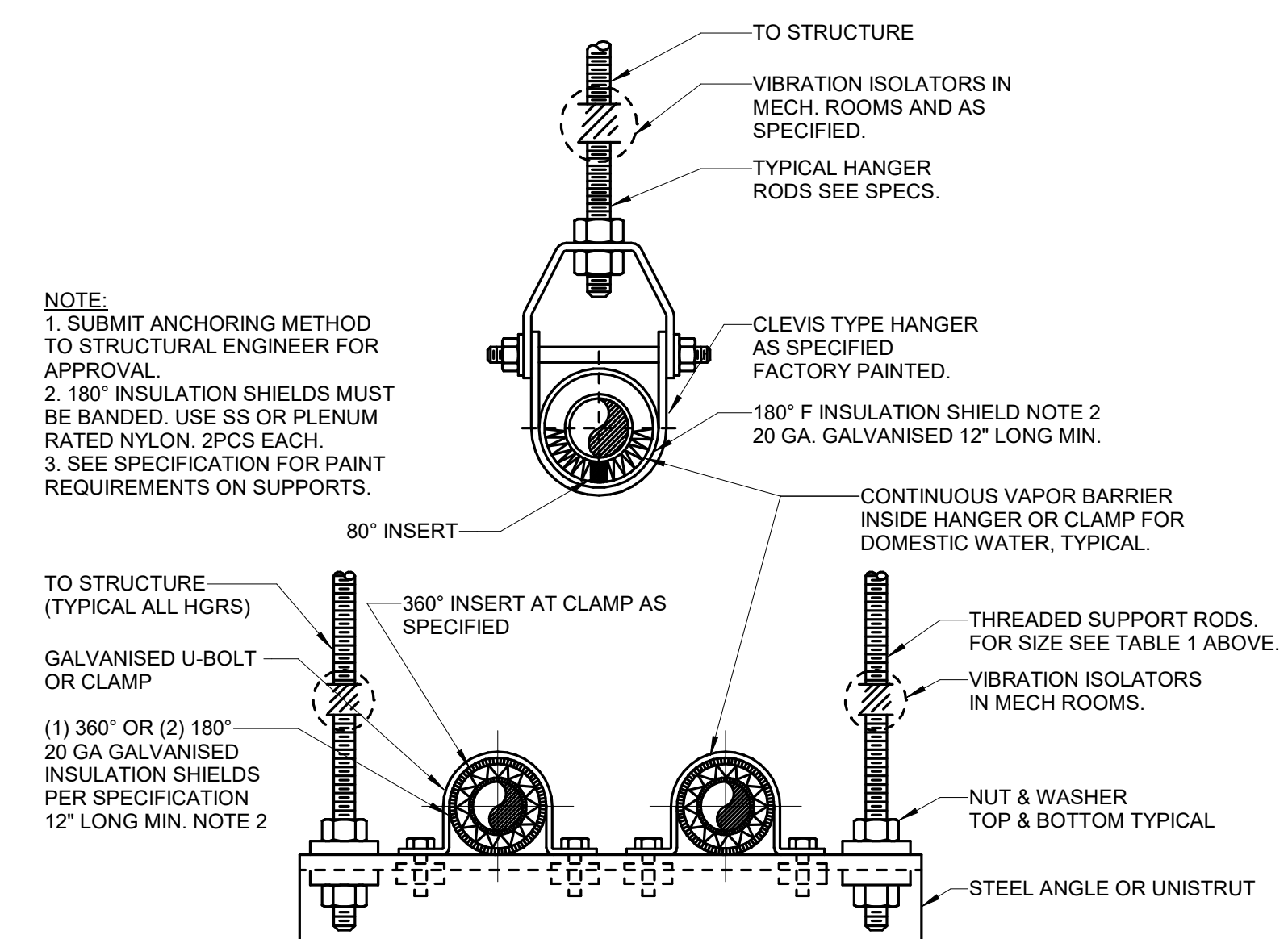
2 ESCALATOR SUMP PUMP DETAIL
NO SCALE



6 PIPE THRU FLOOR SLAB
NO SCALE



7 STANDPIPE DETAIL
NO SCALE



3 DOMESTIC PIPING HANGER DETAIL
NO SCALE

Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR PERMIT

RCRBD
Record Set
TC
06/29/2021

Seal / Signature



05/18/2021

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

GOLD WALK - PLUMBING DETAILS

Scale

NO SCALE

1B-P8.000

SECURITY SYSTEMS SYMBOLS		
DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.	
L:XX #CA1 X-Y	N/A	CAMERA TAG INDICATES CAMERA ID# ("L:XX"), CAMERA TYPE AND MOUNTING HEIGHT. REFER TO CAMERA SCHEDULE FOR ADDITIONAL INFORMATION AND DETAIL REFERENCES.
	S.01	FIXED (INTERIOR) SECURITY CAMERA. (REF: CAMERA SCHEDULES)
	S.01	PTZ (INTERIOR) SECURITY CAMERA. (REF: CAMERA SCHEDULES)
	S.01	FIXED (EXTERIOR) SECURITY CAMERA. (REF: CAMERA SCHEDULES)
	S.01	PTZ (EXTERIOR) SECURITY CAMERA. (REF: CAMERA SCHEDULES)
	S.03	CONTROLLED DOORWAY. REFER TO ACCESS CONTROL DOOR SCHEDULE. ("XXX" = ARCHITECTURAL DOOR NUMBER)
	S.03	MONITORED ONLY DOORWAY. REFER TO ACCESS CONTROL DOOR SCHEDULE. ("XXX" = ARCHITECTURAL DOOR NUMBER)
	S.03	PROXIMITY CARD READER MOUNTED AT 48" AFF.
	S.03	KEYPAD / CARD READER MOUNTED AT 48" AFF.

GENERAL NOTES:
 1. REFER TO DETAILS AS INDICATED ABOVE FOR ADDITIONAL RACEWAY, CABLING AND/OR DEVICE INFORMATION.
 2. REFER TO "COMMUNICATION SYSTEM SYMBOLS" LEGEND FOR STRUCTURED CABLING (DATA) REQUIREMENTS FOR IP-ENABLED DEVICES. SECURITY DETAILS AND/OR SCHEDULES DEFINE RACEWAY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO BACK-BOX TYPE, SIZE, MOUNTING CONDITION AND HEIGHT.

PATHWAY REQUIREMENTS:
 1. J-HOOK PATHWAY: ROUTE AND TERMINATE CONDUIT WITHIN NEAREST ACCESSIBLE CEILING SPACE. PROVIDE DEDICATED J-HOOKS AT 48-INCHES ON CENTER FOR REMAINING CABLE RUN TO NEAREST CABLE TRAY (AS APPLICABLE) OR SECURITY ROOM / TELECOM ROOM, UNLESS NOTED OTHERWISE. PROVIDE CONDUIT PATHWAY THROUGH WALLS AND ACROSS NON-ACCESSIBLE OR EXPOSED CEILING AREAS TO ENSURE UNOBSTRUCTED CABLE PATHWAY FOR ENTIRE CABLE RUN.

COMMUNICATIONS SYSTEMS SYMBOLS		
DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.	
"WP"	N/A	WEATHER-PROOF DEVICE COVER (TYPICAL FOR ALL DEVICES INDICATED WITH "WP").
	E.01	TELE/DATA OUTLET(S) FOR ELEVATOR CAB DEVICES (PHONE CAMERA, VIDEO DISPLAY, ETC.). COORDINATE MOUNTING HEIGHT WITH ELEVATOR INTERFACE PANEL. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.01 / R.01	TELE/DATA OUTLET FOR PHONE, WALL MOUNTED AT 48" AFF.
	C.02 / R.01	DATA OUTLET WALL MOUNTED AT 18" AFF U.N.O. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.02 / R.01	DATA OUTLET WALL MOUNTED ABOVE COUNTER AT 8" ABOVE COUNTER OR MAXIMUM OF 44" AFF. U.N.O. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.02 / R.01	DATA OUTLET MOUNTED ABOVE ACCESSIBLE CEILING, FLUSH IN HARD CEILING, OR TIGHT TO STRUCTURE OVERHEAD (AT EXPOSED CEILING), U.N.O. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.06 / R.04	DATA OUTLET MOUNTED IN MODULAR FURNITURE. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.02 / R.01	POINT-OF-SALE (POS) DATA OUTLET WALL MOUNTED AT 18" AFF U.N.O. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.05 / R.02	DATA / COAX OUTLET FOR TV / VIDEO DISPLAY WALL MOUNTED WITHIN SHARED BACK-BOX.
	C.05 / R.02	DATA / COAX OUTLET FOR TV / VIDEO DISPLAY CEILING MOUNTED WITHIN SHARED BACK-BOX.
	C.04 / R.01	WIRELESS LAN DATA OUTLET WALL MOUNTED AT 10'-0" AFF. U.N.O. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.04 / R.01	WIRELESS LAN OUTLET MOUNTED ABOVE ACCESSIBLE CEILING, FLUSH IN HARD CEILING, OR TIGHT TO STRUCTURE OVERHEAD (AT EXPOSED CEILING), U.N.O. (# = PORT QUANTITY, NO / # = 1-PORT)
	W.01 / W.02	WIRELESS LAN DATA OUTLET MOUNTED WITHIN NEMA ENCLOSURE MOUNTED TO WALL OR STRUCTURE. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.03 / S.02	DATA OUTLET FOR IP-BASED SECURITY CAMERA WALL OR POLE MOUNTED WITHIN SECURITY CAMERA BACK-BOX.
	C.03 / S.02	DATA OUTLET FOR IP-BASED SECURITY CAMERA CEILING MOUNTED WITHIN SECURITY CAMERA BACK-BOX.
	C.07 / S.02	FIBER OPTIC DATA OUTLET FOR IP-BASED SECURITY CAMERA WALL OR POLE MOUNTED WITHIN SECURITY CAMERA BACK-BOX.
	C.05 / R.05	DATA OUTLET MOUNTED IN SURFACE RACEWAY. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.05 / R.03	DATA OUTLET MOUNTED WITHIN POWER / DATA FLOORBOX (# = PORT QUANTITY, NO / # = 1-PORT)
	C.05 / R.03	DATA OUTLET MOUNTED WITHIN POWER / DATA / AV FLOORBOX (# = PORT QUANTITY, NO / # = 1-PORT)
	C.14	MULTI-PORT DATA DEVICE TERMINATED ON PATCH PANEL MOUNTED IN AV ENCLOSURE. (# = PORT QUANTITY, NO / # = 1-PORT)

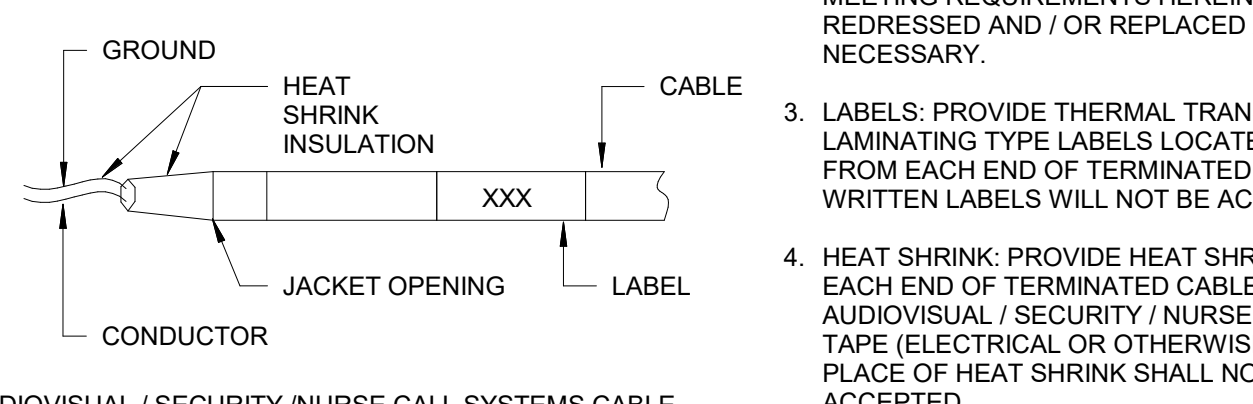
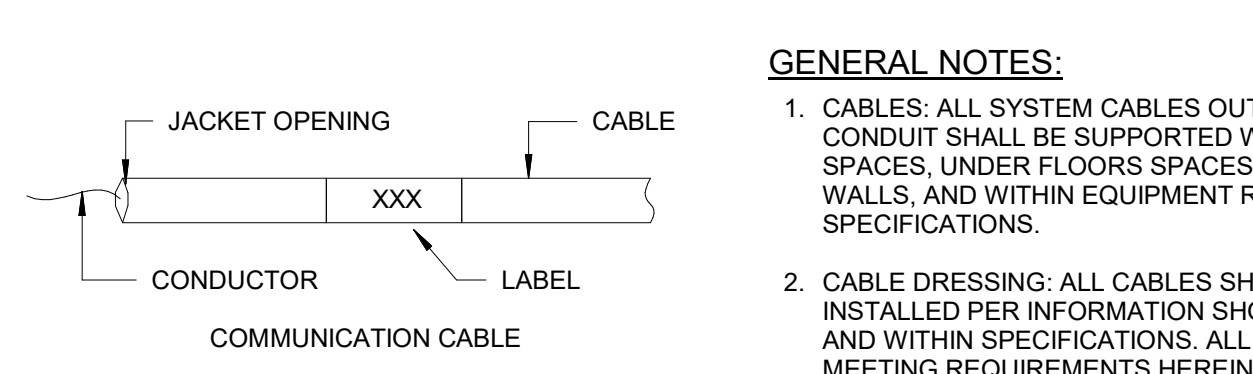
GENERAL NOTES:
 1. REFER TO DETAILS AS INDICATED ABOVE FOR ADDITIONAL RACEWAY, CABLING AND/OR DEVICE INFORMATION.
 2. REFER TO OTHER SYSTEMS DRAWINGS (AV, SECURITY, ETC.) FOR BACK-BOX REQUIREMENTS SPECIFIC TO EACH DEVICE TYPE. SELECT DEVICES MAY REQUIRE SPECIALIZED BACK-BOX TYPES, SIZES AND MOUNTING CONDITIONS AS DEPICTED IN OTHER SYSTEMS DRAWINGS.
 3. PROVIDE CAT 6 (1G) UTP CABLE TERMINATED (PER EIA/TIA-568B) ON CAT 6 OUTLETS AND/OR PATCH PANELS FOR ALL TELE/DATA DEVICES, U.N.O.
 4. RG-6 COAXIAL CABLE TERMINATED WITH F-TYPE CONNECTORS FOR COAXIAL DEVICES.

PATHWAY REQUIREMENTS:
 1. J-HOOK PATHWAY: ROUTE AND TERMINATE CONDUIT WITHIN NEAREST ACCESSIBLE CEILING SPACE. PROVIDE DEDICATED J-HOOKS AT 48-INCHES ON CENTER FOR REMAINING CABLE RUN TO NEAREST CABLE TRAY (AS APPLICABLE) OR TELECOM ROOM / HORIZONTAL CROSS-CONNECT LOCATION, UNLESS NOTED OTHERWISE. PROVIDE CONDUIT PATHWAY THROUGH WALLS AND ACROSS NON-ACCESSIBLE OR EXPOSED CEILING AREAS TO ENSURE UNOBSTRUCTED CABLE PATHWAY FOR ENTIRE CABLE RUN.

CROSS-CONNECTS		
DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.	
	N/A	TELECOMMUNICATIONS SERVICE PROVIDER CROSS-CONNECT (SP) PROVIDED BY OTHERS. (SHOWN FOR REFERENCE ONLY)
	C.12	TELECOMMUNICATIONS MAIN CROSS-CONNECT (MC).
	C.12	TELECOMMUNICATIONS INTERMEDIATE CROSS-CONNECT (IC).
	C.12	TELECOMMUNICATIONS HORIZONTAL CROSS-CONNECT (HC).
	C.11	FIBER OPTIC DATA SERVICE PROVIDER CROSS-CONNECT (SP) PROVIDED BY OTHERS. (SHOWN FOR REFERENCE ONLY).
	C.11	FIBER OPTIC DATA MAIN CROSS-CONNECT (MC).
	C.11	FIBER OPTIC DATA INTERMEDIATE CROSS-CONNECT (IC).
	C.13	DATA HORIZONTAL CROSS-CONNECT (HC).
	N/A	CABLE OR SAT TV CROSS-CONNECT.
	C.12	TELECOMMUNICATIONS DATA CENTER CROSS-CONNECT.
	C.11	FIBER OPTIC DATA CENTER CROSS-CONNECT (DCC).
	C.11	FIBER OPTIC CAMPUS CROSS-CONNECT (CC).
	C.12	TELECOMMUNICATIONS CAMPUS CROSS-CONNECT.
	C.12	TELECOMMUNICATIONS SERVICE TIE CROSS-CONNECT.
	C.11	FIBER OPTIC SERVICE TIE CROSS-CONNECT.

INFRASTRUCTURE

DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.	
	R.03	TELE/DATA FURNITURE FEED FLOOR BOX (WITH COVER PLATE AND FLEXIBLE WHIP)
	R.04	TELE/DATA FURNITURE FEED WALL BACK-BOX (WITH COVER PLATE AND FLEXIBLE WHIP) MOUNTED AT 18" AFF.
	R.01	RACEWAY ONLY OUTLET LOCATION MOUNTED AT 18" AFF. U.N.O.
	R.01	RACEWAY ONLY OUTLET LOCATION MOUNTED ABOVE ACCESSIBLE CEILING, FLUSH IN HARD CEILING, OR TIGHT TO STRUCTURE OVERHEAD (AT EXPOSED CEILING), U.N.O.
	G.01	MAIN TELECOMMUNICATIONS GROUND BUS.
	G.02	TELECOMMUNICATIONS GROUND BUS.
	N/A	2-POST EQUIPMENT RACK. (REF: RACK / CABINET SCHEDULES)
	N/A	4-POST EQUIPMENT RACK. (REF: RACK / CABINET SCHEDULES)
	N/A	EQUIPMENT CABINET. (REF: RACK / CABINET SCHEDULES)
	N/A	AV SLIDE-OUT / PIVOT STYLE EQUIPMENT CABINET. (REF: RACK / CABINET SCHEDULES)
	N/A	WALL MOUNTED SWING OUT EQUIPMENT RACK. (REF: RACK / CABINET SCHEDULES)
	N/A	WALL MOUNTED SWING OUT EQUIPMENT CABINET. (REF: RACK / CABINET SCHEDULES)
	N/A	EQUIPMENT RACK OR CABINET PROVIDED BY OTHERS. SHOWN FOR REFERENCE TO ALLOCATE FLOOR SPACE.
	U.02	COMMUNICATIONS MANHOLE.
	U.03	COMMUNICATIONS IN-GRADE HAND HOLE / PULL-BOX.

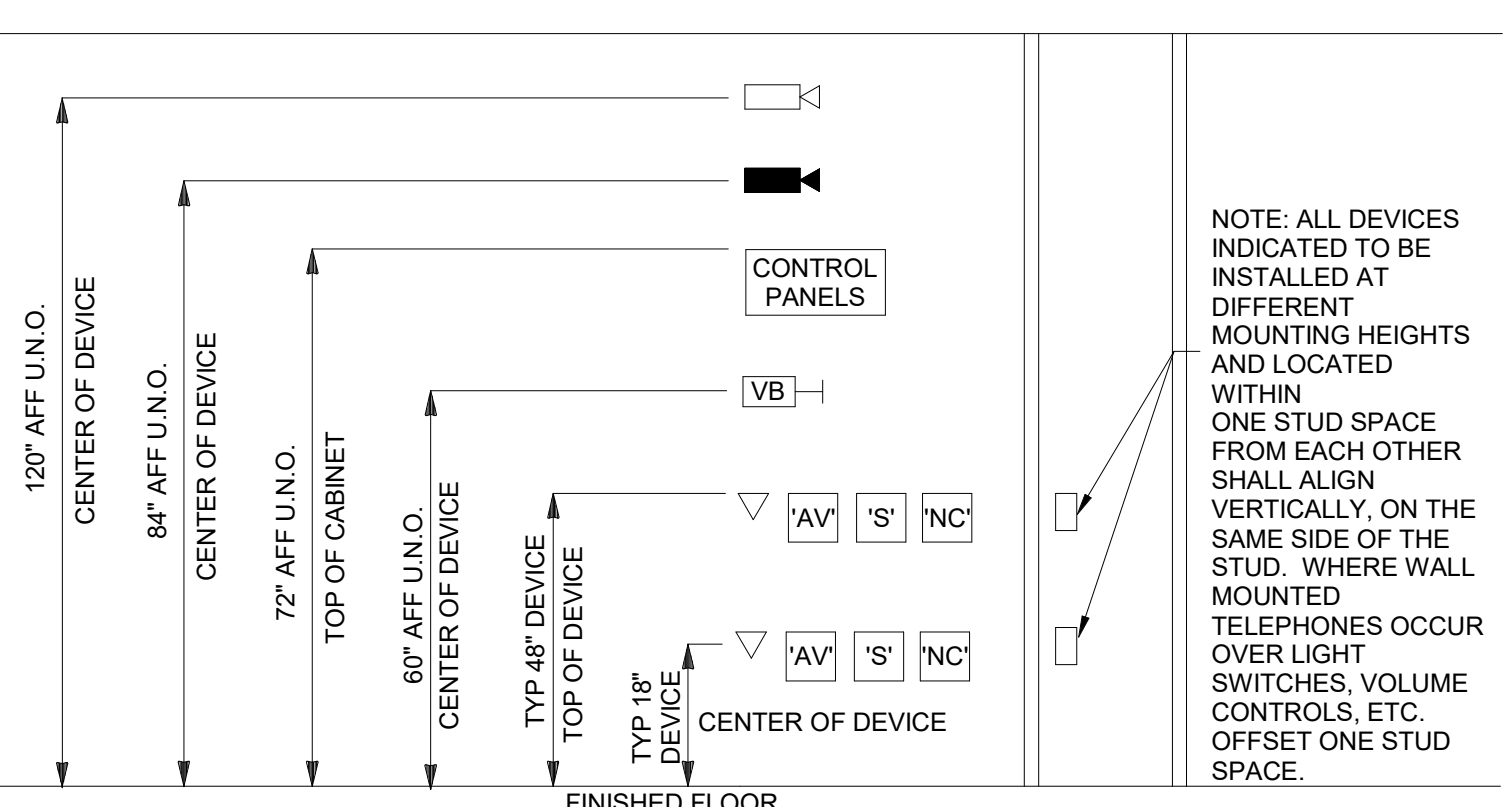


- GENERAL NOTES:**
- CABLES: ALL SYSTEM CABLES OUTSIDE OF CONDUIT SHALL BE SUPPORTED WITHIN CEILING SPACES, UNDER FLOORS SPACES, ALONG WALLS, AND WITHIN EQUIPMENT RACKS PER SPECIFICATIONS.
 - CABLE DRESSING: ALL CABLES SHALL BE INSTALLED PER INFORMATION SHOWN HERE AND WITHIN SPECIFICATIONS. ALL CABLE NOT MEETING REQUIREMENTS HEREIN WILL BE REDRESSED AND / OR REPLACED AS NECESSARY.
 - LABELS: PROVIDE THERMAL TRANSFER / SELF-LAMINATING TYPE LABELS LOCATED ~2 INCHES FROM EACH END OF TERMINATED CABLE. HAND WRITTEN LABELS WILL NOT BE ACCEPTED.
 - HEAT SHRINK: PROVIDE HEAT SHRINK AT EACH END OF TERMINATED CABLE FOR ALL AUDIOVISUAL / SECURITY / NURSE CALL CABLES. TAPE (ELECTRICAL OR OTHERWISE) UTILIZED IN PLACE OF HEAT SHRINK SHALL NOT BE ACCEPTED.
 - GROUND CONDUCTOR: PROVIDE CLEAR HEAT SHRINK FOR ALL TERMINATED GROUND CONDUCTORS. FOR ALL UN-TERMINATED GROUND CONDUCTORS, CUT BACK TO JACKET OPENING AND COVER WITH HEAT SHRINK.

CABLE DRESS REQUIREMENTS

CABLE DRESS COLOR REQUIREMENTS

USE	CABLE COLOR	OUTLET TERMINATION	PATCH PANEL TERMINATION
DATA	BLUE	BLUE	BLUE
VOICE	WHITE	BLUE	WHITE
WAP	PURPLE	BLUE	PURPLE
CAM	GREEN	BLUE	GREEN
POS	YELLOW	BLUE	YELLOW



TYPICAL DEVICE MOUNTING HEIGHTS

NO SCALE

- NOTES:**
- MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE
 - CONTRACTOR SHALL ENSURE THAT ALL MOUNTING HEIGHTS COMPLY WITH CURRENT ADA REQUIREMENTS.
 - ALL ABOVE COUNTER DEVICES SHALL BE MOUNTED 8" ABOVE COUNTER OR A MAXIMUM OF 44" AFF (TO TOP OF DEVICE). VERIFY HEIGHTS WITH ARCHITECT.
 - WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.

Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR PERMIT

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Record Set
TC
07/13/2021

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Project Name
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Project Number
003.7835.000

Description
GOLD WALK - TECHNOLOGY LEGEND

Scale
NO SCALE

1B-T0.000

ABBREVIATIONS

Table of abbreviations including AC (ALTERNATING CURRENT), ADA (AMERICANS WITH DISABILITIES ACT), AFG (ABOVE FINISHED GRADE), and others.

ABBREVIATIONS

Table of abbreviations including GHz (GIGAHERTZ), GMP (GUARANTEED MAXIMUM PRICE), GUI (GRAPHICAL USER INTERFACE), and others.

ABBREVIATIONS

Table of abbreviations including PA (PUBLIC ADDRESS), PABX (PRIVATE AUTOMATIC BRANCH EXCHANGE), PBX (PRIVATE BRANCH EXCHANGE), and others.

GENERAL TECHNOLOGY SYSTEM REQUIREMENTS:

- 1. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE. ALL DEVICE OUTLETS SHALL BE MOUNTED VERTICALLY.
2. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.
3. ALL DEVICES INDICATED TO BE INSTALLED AT DIFFERENT MOUNTING HEIGHTS AND LOCATED WITHIN ONE STUD SPACE FROM EACH OTHER SHALL ALIGN VERTICALLY...



ALTEIRA east west partners MOUNTAIN COMPANY

2305 Mount Werner Circle Steamboat Springs, CO 80487



1225 17th Street Suite 150 Denver, CO 80202 United States Tel 303.595.8886 Fax 303.825.6823



141 9th Street PO Box 774943 Steamboat Springs, CO 80477 Tel 970.871.9494 1390 Lawrence Street Suite 100 Denver, CO 80204 Tel 303.623.5186



12499 West Colfax Ave. Lakewood, CO 80215 United States Tel 303.431.6100 14143 Denver West Pkwy Suite 300 Golden, CO United States Tel 303.421.6655

Table with columns for Date and Description

2021.05.19 BP3: GOLDWALK - ISSUE FOR PERMIT

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Signatures section header

Project Name

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Project Number

003.7835.000

Description

GOLD WALK - TECHNOLOGY GENERAL NOTES & ABBREVIATIONS

Scale

NO SCALE

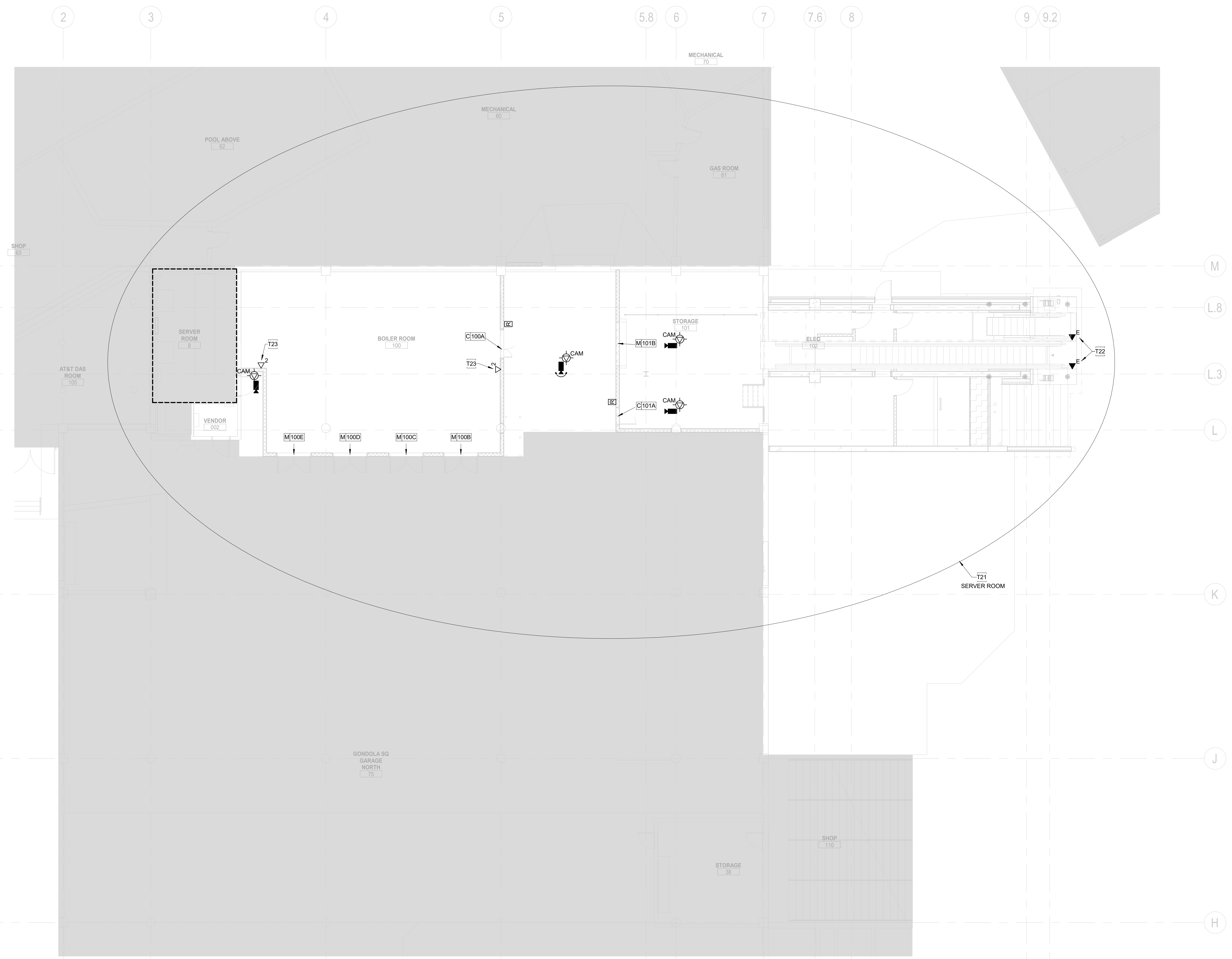
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GENERAL NOTES:

1. REFER TO SYMBOL LEGEND FOR ADDITIONAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, INSTALLATION OF RACEWAY, CABLING, AND DEVICES.
2. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION PERTAINING TO DATA CENTER EQUIPMENT (PRODUCTS AND INSTALLATION) DESCRIBED IN KEYNOTES BELOW, SPECIFICALLY DIVISION 27.
3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL WALL SPACE REQUIREMENTS WITH OTHER LOW VOLTAGE TRADES (SECURITY, AV, FIRE ALARM, ETC.) DURING SHOP DRAWING COORDINATION PROCESS TO CONFIRM FINAL PLACEMENT OF ALL TERMINATIONS AND EQUIPMENT WITHIN DATA CENTER.

KEYNOTES

- T21** DIVIDER CIRCLE INDICATES COMMUNICATIONS AND SECURITY DEVICE CABLE ROUTING BACK TO THE NEAREST IC-ROOM. DIVIDER LINES ARE SHOWN FOR REFERENCE ONLY TO ASSIST THE OWNER AND CONTRACTOR IN UNDERSTANDING WHICH IC-ROOM EACH DEVICE CABLE IS ANTICIPATED TO ORIGINATE FROM AND TERMINATE IN. TELE/DATA RACEWAY AND CABLING CONTRACTOR SHALL VERIFY THAT EACH DEVICE WITHIN THESE BOUNDARIES DOES NOT EXCEED THE HORIZONTAL CABLE LENGTH LIMITATIONS PER SPECIFICATIONS AND IATIA STANDARDS.
- T22** PROVIDE DATA DEVICE WITHIN ESCALATOR PIT FOR CONTROL INTERFACE. COORDINATE EXACT LOCATION WITH ESCALATOR INSTALLER PRIOR TO INSTALLATION.
- T23** PROVIDE DATA DEVICE FOR ELECTRICAL MECHANICAL EQUIPMENT CONNECTIVITY. COORDINATE EXACT LOCATION WITH ARCHITECT AND ELECTRICAL MECHANICAL CONTRACTOR.



Date	Description
2021.04.02	BP3: PRICING AND PROCUREMENT PERMIT
2021.04.30	75% PROGRESS PRINT
2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT

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TC
07/13/2021

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Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

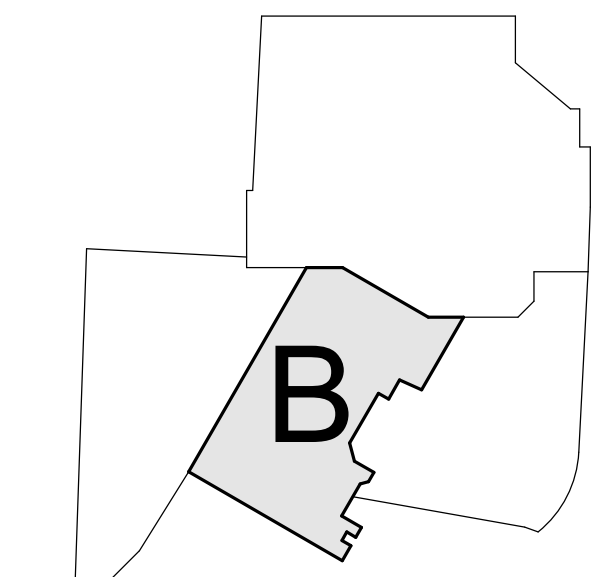
GOLD WALK - TECHNOLOGY PLAN - LEVEL 01

Scale

1/8" = 1'-0"

1B-T1.201

KEY PLAN

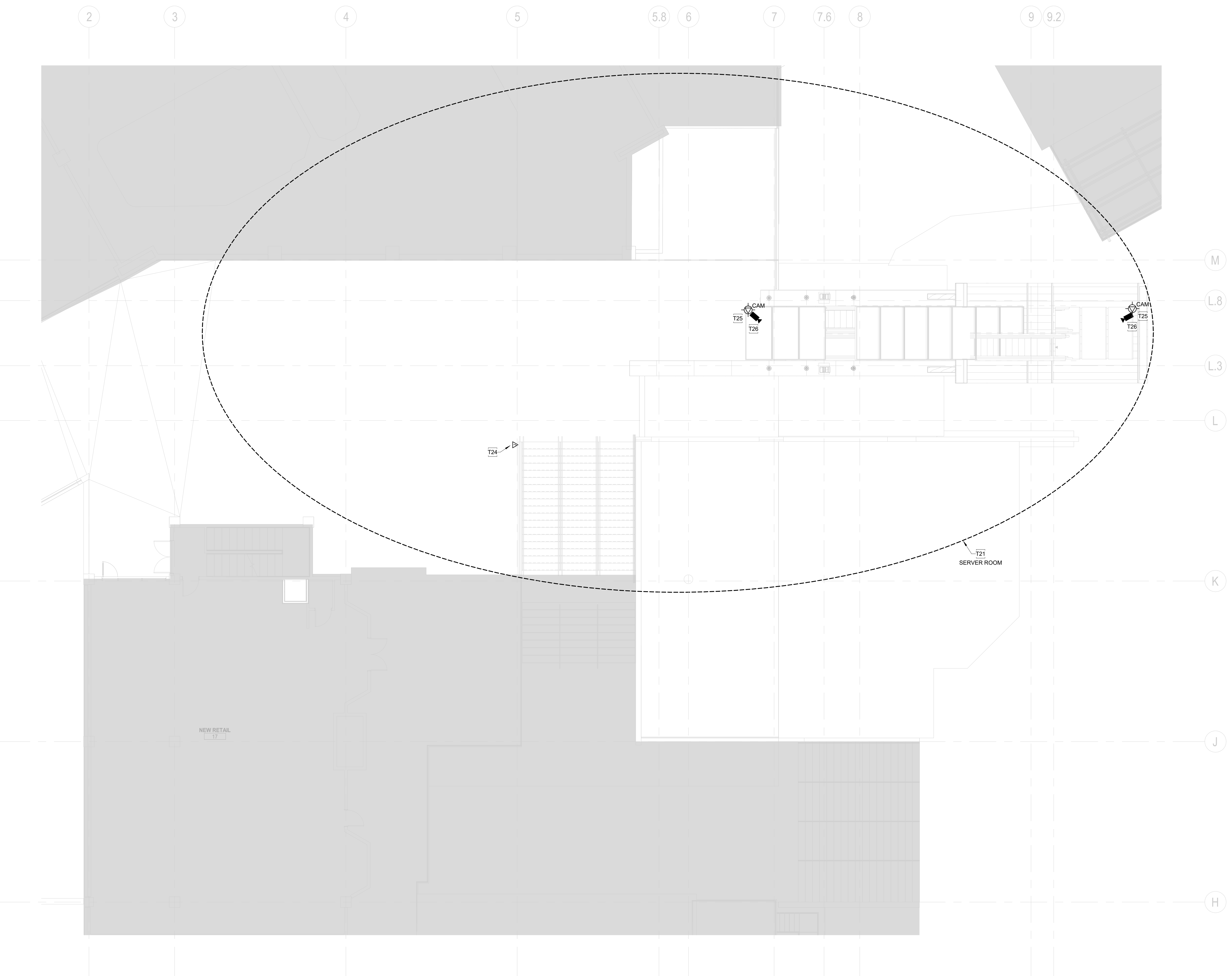


GENERAL NOTES:

1. REFER TO SYMBOL LEGEND FOR ADDITIONAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, INSTALLATION OF RACEWAY, CABLING, AND DEVICES.
2. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION PERTAINING TO DATA CENTER EQUIPMENT (PRODUCTS AND INSTALLATION) DESCRIBED IN KEYNOTES BELOW, SPECIFICALLY DIVISION 27.
3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL WALL SPACE REQUIREMENTS WITH OTHER LOW VOLTAGE TRADES (SECURITY, AV, FIRE ALARM, ETC.) DURING SHOP DRAWING COORDINATION PROCESS TO CONFIRM FINAL PLACEMENT OF ALL TERMINATIONS AND EQUIPMENT WITHIN DATA CENTER.

KEYNOTES

- T21** DIVIDER CIRCLE INDICATES COMMUNICATIONS AND SECURITY DEVICE CABLE ROUTING BACK TO THE NEAREST IC-ROOM. DIVIDER LINES ARE SHOWN FOR REFERENCE ONLY TO ASSIST THE OWNER AND CONTRACTOR IN UNDERSTANDING WHICH IC-ROOM EACH DEVICE CABLE IS ANTICIPATED TO ORIGINATE FROM AND TERMINATE IN. TELE/DATA RACEWAY AND CABLING CONTRACTOR SHALL VERIFY THAT EACH DEVICE WITHIN THESE BOUNDARIES DOES NOT EXCEED THE HORIZONTAL CABLE LENGTH LIMITATIONS PER SPECIFICATIONS AND IATIA STANDARDS.
- T24** 1-1/4" CONDUIT AND TO ELECTRICAL BOX. RE ELECTRICAL PLANS AND DETAILS.
- T25** REFER TO ARCHITECTURAL DRAWINGS FOR CAMERA PLACEMENT AND SPECIFIED CABLE CHANNEL. DATA CABLE TO BE CONCEALED WITHIN CABLE CHANNEL AND ROUTED FOR MINIMAL VISIBILITY.
- T26** CORNER MOUNTED CAMERA, BASIS OF DESIGN IS AXIS P1987N. STAINLESS STEEL, PAINTED BLACK, CONFIRM EXACT COLOR WITH ARCHITECT VIA SHOP DRAWINGS. FOLLOW MANUFACTURER INSTRUCTIONS FOR PAINTING.



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Description

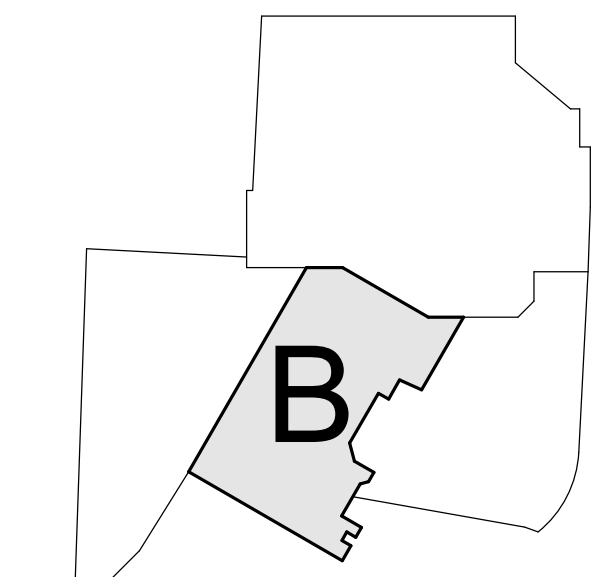
GOLD WALK - TECHNOLOGY PLAN - LEVEL 03

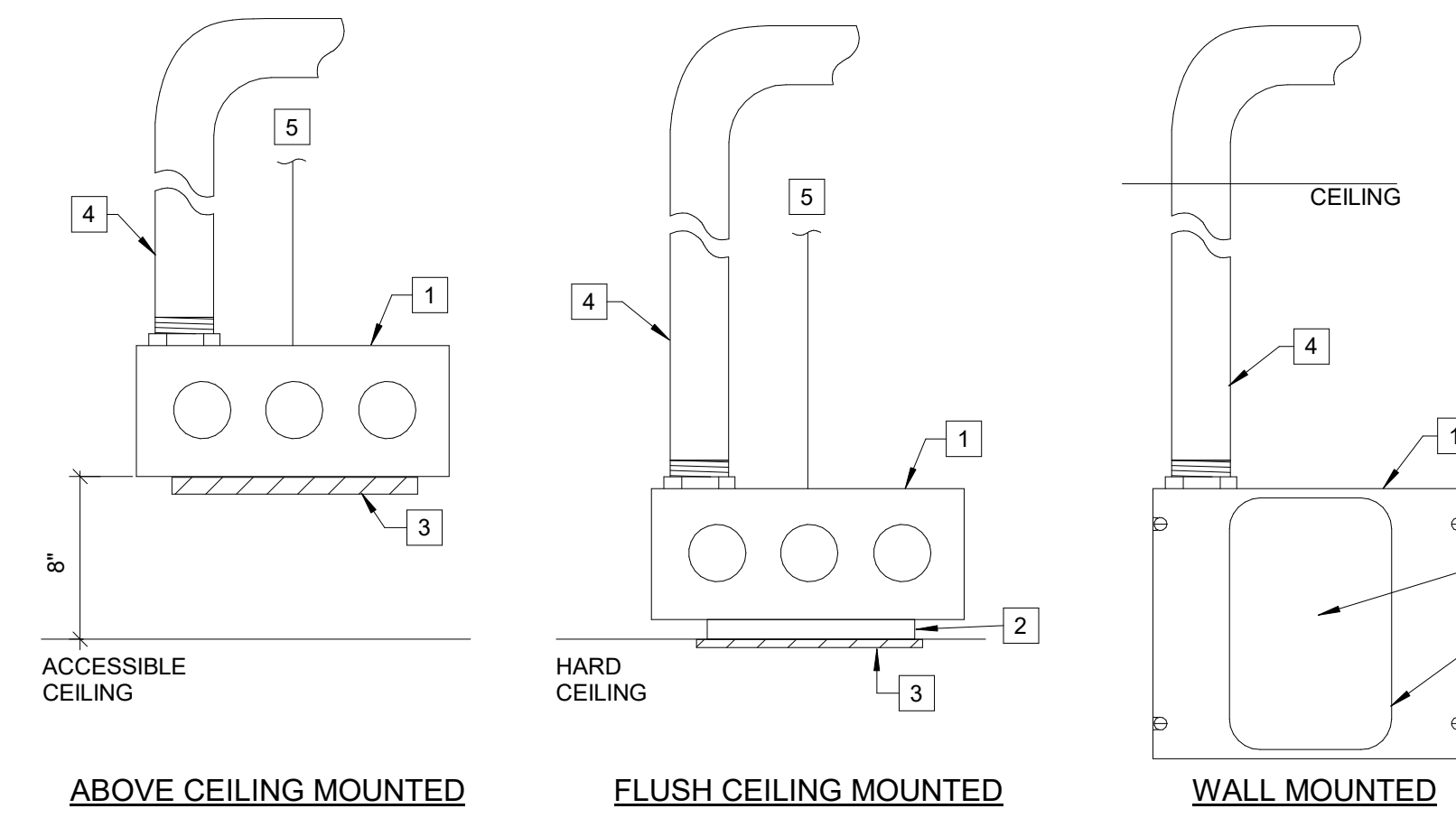
Scale

1/8" = 1'-0"

1B-T1.203

KEY PLAN





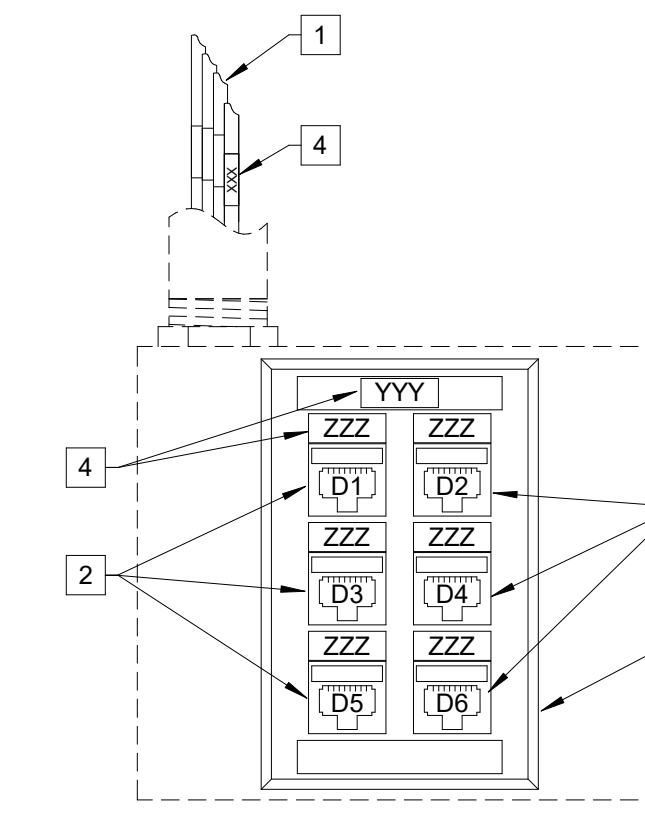
GENERAL NOTES:

- REFER TO SYSTEM SYMBOL LEGEND - PATHWAY REQUIREMENT NOTES TO CONFIRM IF CONDUIT STUBS TO CEILING AND USE OF J-HOOKS IS ALLOWED OR IF CONTINUOUS CONDUIT IS REQUIRED FOR ALL LOCATIONS. PARTICULAR ATTENTION SHALL BE GIVEN TO CONDUIT ROUTING NOTES AS EACH SYSTEM (AV, COMM, SECURITY, ETC.) HAS SPECIFIC CONDUIT ROUTING REQUIREMENTS.

KEYNOTES: #

- BACK-BOX: PROVIDE 4"x4"x2-1/8" FLUSH MOUNTED BOX.
- MUD-RING: PROVIDE 1-GANG MUD RING FOR MOUNTING OF DEVICE / FACEPLATE. MUD RING SHALL BE SEPARATE COMPONENT FROM BACK-BOX.
- FACE PLATE: REQUIREMENTS VARY. REFER TO SPECIFIC DEVICE DETAILS FOR ADDITIONAL INFORMATION.
- CONDUIT: PROVIDE CONDUIT SIZED AS FOLLOWS:
(1) 1-INCH CONDUIT FOR (1-4) CABLES/PORTS
(1) 1-1/4-INCH CONDUIT FOR (5-6) CABLES/PORT
- SUPPORT: PROVIDE THREADED ROD ATTACHED TO STRUCTURE ABOVE.

R.01 COMM RACEWAY DEVICES
SYMBOLS: | ▽ X ◊ X



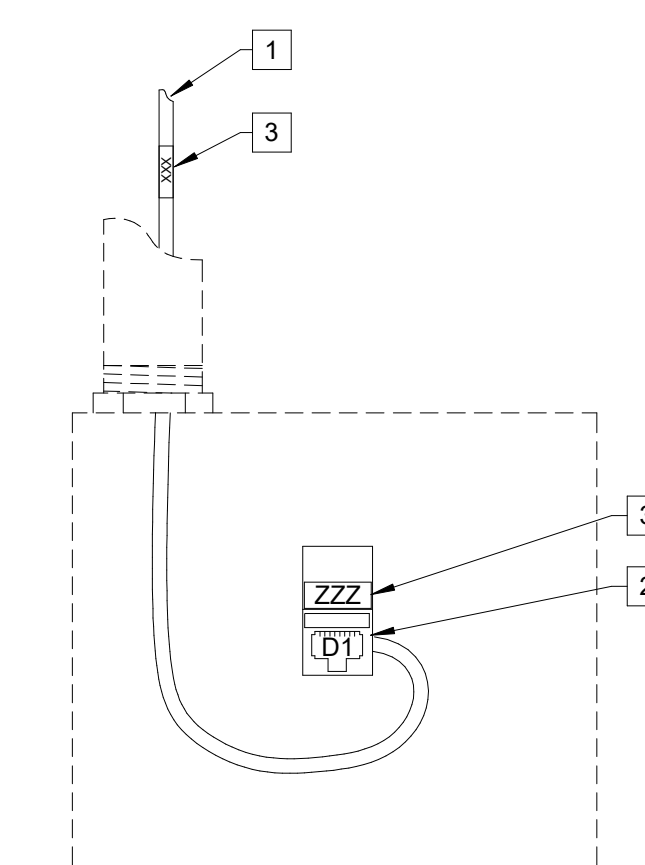
GENERAL NOTES:

- REFER TO DETAIL R.01 FOR RACEWAY REQUIREMENTS INCLUDING BACK-BOX AND CONDUIT.
- PROVIDE MODULAR DUST COVER(S) ON ALL UNUSED FACEPLATE PORTS AS REQUIRED.

KEYNOTES: #

- DATA CABLE: PROVIDE 4-PAIR UTP CABLE(S) ORIGINATING FROM THE NEAREST HORIZONTAL CROSS-CONNECT (HC). REFER TO DEVICE SYMBOL AND LEGEND DESCRIPTION FOR CABLE QUANTITIES.
- DATA TERMINATIONS: PROVIDE RJ45 TYPE MODULAR JACK INTERCONNECTED TO EACH UTP CABLE. PROVIDE COLORED PORTS ACCORDING TO THE COLOR SCHEDULE ON THE LEGEND SHEET.
- FACE PLATE: PROVIDE MODULAR FACEPLATE WITH PORTS AS REQUIRED PER CABLE COUNTS.
- LABELS: PROVIDE WHITE LABELS WITH BLACK TEXT TO NOTE STATION ID (YYY), TERMINATION ID (ZZZ) AND CABLE ID (XXX). REFER TO TYPICAL DEVICE LABELING DETAIL FOR ADDITIONAL REQUIREMENTS.

C.02 VOICE/DATA DEVICE (5 OR 6 PORTS)
SYMBOLS: | ▽ # ▽ # ▽ ATM# ▽ POS# ▽ F ▽ AV



GENERAL NOTES:

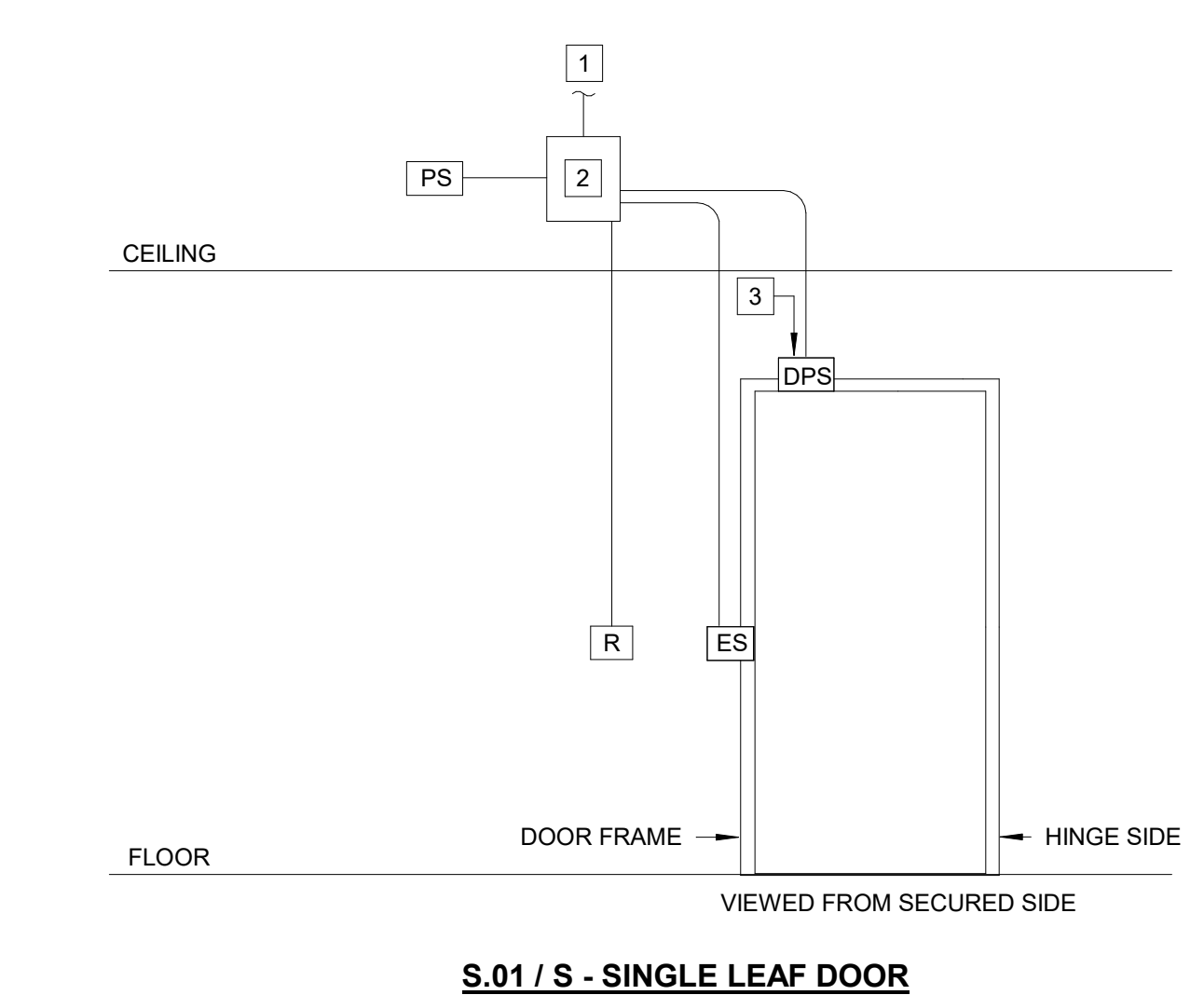
- INTENT OF THIS DETAIL IS TO DEPICT STRUCTURED CABLING REQUIREMENTS. REFER TO OTHER SYSTEMS DRAWINGS (AV, SECURITY, ETC.) FOR BACK-BOX REQUIREMENTS SPECIFIC TO EACH DEVICE TYPE. SELECT DEVICES MAY REQUIRE SPECIALIZED BACK-BOX TYPES, SIZES AND MOUNTING CONDITIONS.
- CONTRACTOR TO PROVIDE DATA OUTLET(S) MOUNTED IN PLENUM RATED BISCUIT IN LIEU OF BACK-BOX FOR DEVICES LOCATED ABOVE ACCESSIBLE CEILINGS.

KEYNOTES: #

- DATA CABLE: PROVIDE 4-PAIR UTP CABLE(S) ORIGINATING FROM THE NEAREST HORIZONTAL CROSS-CONNECT (HC). REFER TO DEVICE SYMBOL AND LEGEND DESCRIPTION FOR CABLE QUANTITIES.
- DATA TERMINATIONS: PROVIDE RJ45 TYPE MODULAR JACK INTERCONNECTED TO EACH UTP CABLE. CABLE AND JACK SHALL REMAIN LOOSE INSIDE BACK-BOX.
- LABELS: PROVIDE WHITE LABELS WITH BLACK TEXT TO NOTE STATION ID (YYY), TERMINATION ID (ZZZ) AND CABLE ID (XXX). ACTUAL LABELING SCHEME SHALL BE COORDINATED WITH THE OWNER AND ENGINEER. REFER TO COMMUNICATION AND CABLE DETAILS.

C.03 MISCELLANEOUS DATA DEVICE
SYMBOLS: | ▽ CAM ◊ CAM ▽ CP ▽ C ▽ TR

All Door Hardware is under a Deferred Submittal agreement and must be reviewed and approved for egress compliance once submitted.



KEYNOTES: #

- PATHWAY TO SECURITY PANEL LOCATIONS: PROVIDE (1) 1-1/4" CONDUIT REFER TO SECURITY SYSTEM SYMBOL - PATHWAY REQUIREMENT NOTES ON LEGEND SHEET FOR CONDUIT CONTINUATION REQUIREMENTS.
- CONSOLIDATION BOX: LOCATE 8"x8"x4" BOX ON SECURE SIDE OF DOOR. LOCATE WITHIN ACCESSIBLE CEILING SPACE (OR AREA OF ACCESS) AS CLOSE TO DOORWAY AS POSSIBLE. NOT TO EXCEED 50 FEET OF DOOR LOCATION.
- PATHWAY TO DOOR HARDWARE: PROVIDE 3/4" CONDUIT ROUTED FROM CONSOLIDATION BOX TO HARDWARE MOUNTED IN OR AROUND DOOR FRAME. COORDINATE CONDUIT TERMINATION REQUIREMENTS WITH DOOR HARDWARE PROVIDER AND DEVICE MANUFACTURER. ROUTE CONDUIT WITHIN DOOR FRAME WHERE REQUIRED.

S.03 SECURITY ACCESS CONTROL SYSTEM DETAILS
SYMBOLS: |

Steamboat
ALTRERA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

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1225 17th Street Suite 150
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Tel 303.595.8886
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LANDMARK
COLLECTIVE, INC.
141 9th Street PO Box 774943
Steamboat Springs, CO 80477
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DESIGNWORKSHOP
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Denver, CO 80204
Tel 303.623.5186

MARTIN/MARTIN
12499 West Colfax Ave.
Lakewood, CO 80215
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me
engineers
14143 Denver West Pkwy Suite 300
Golden, CO
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Tel 303.421.6655

Date	Description
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GOLD WALK - TECHNOLOGY DETAILS

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1B-T8.000