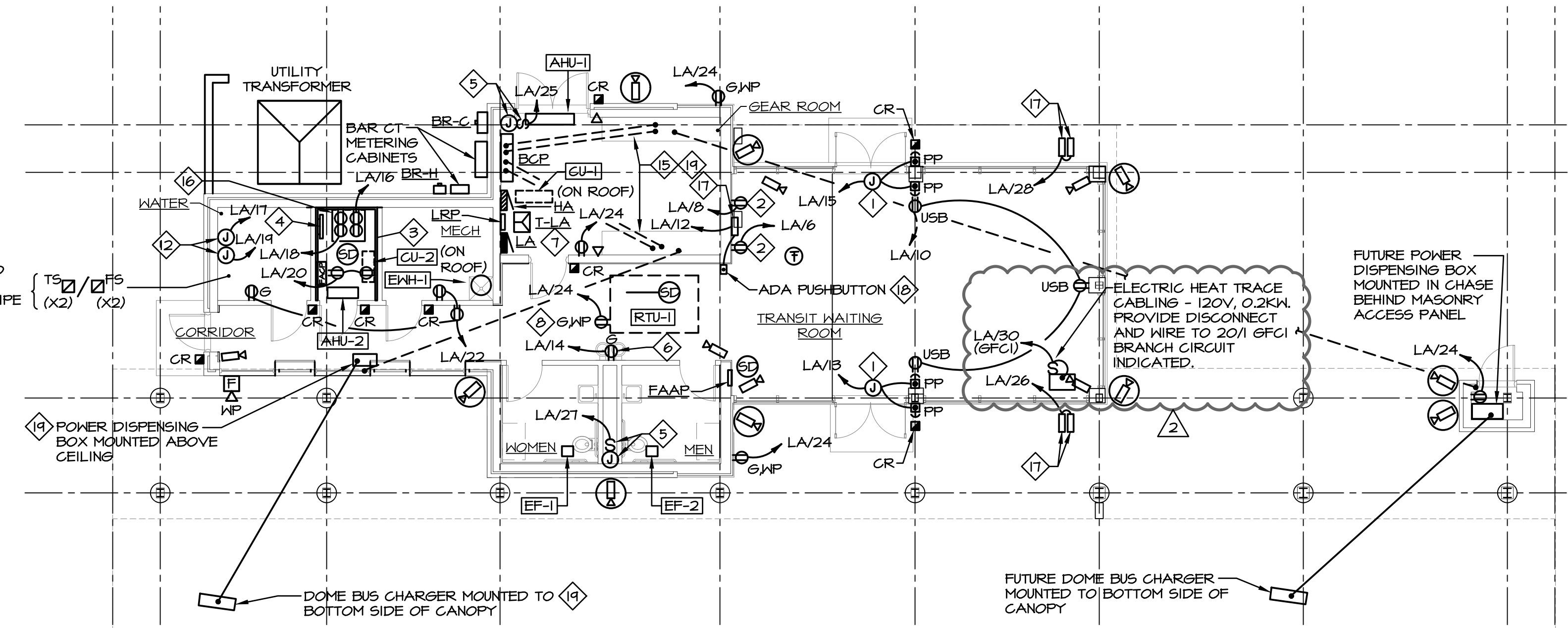


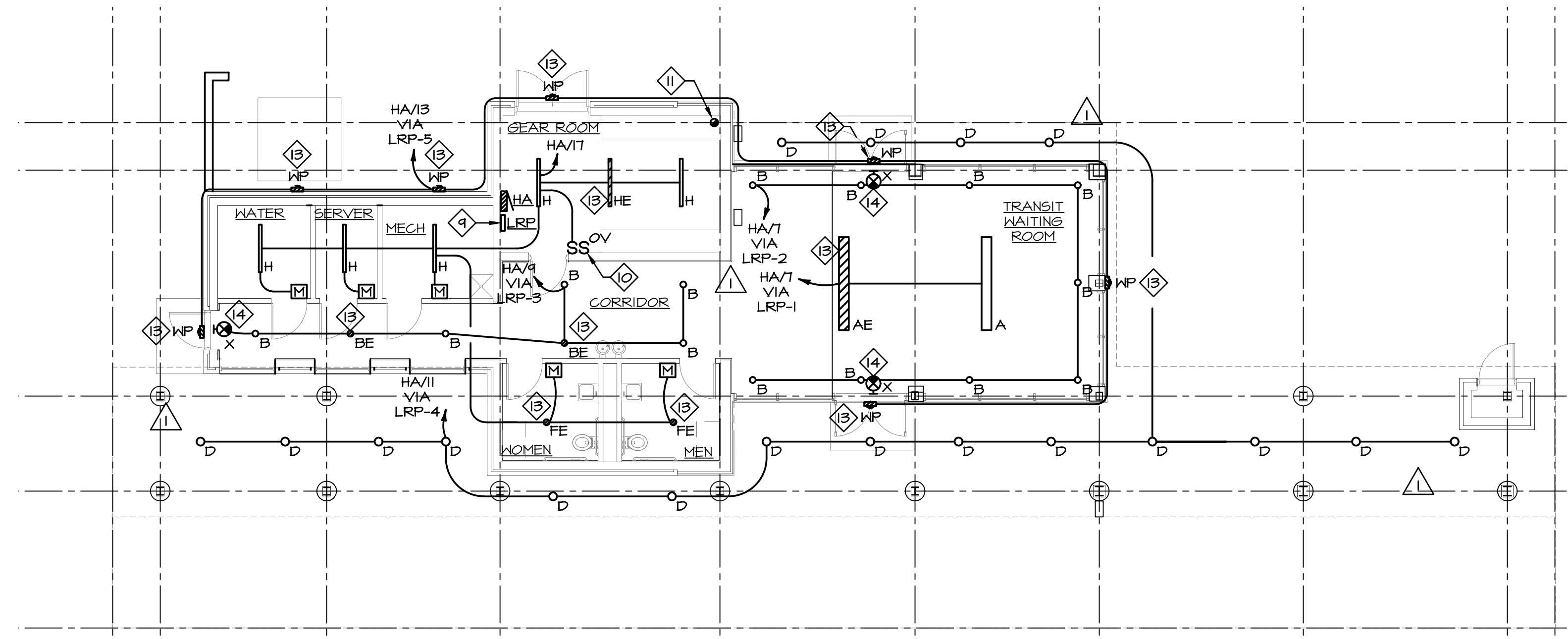
DATE	REVISION	NO	CD	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
8/05/2019		1			08/05/2019	AS SHOWN	BMS	BMS	TOP
8/30/2019		2							

PLAN NOTES

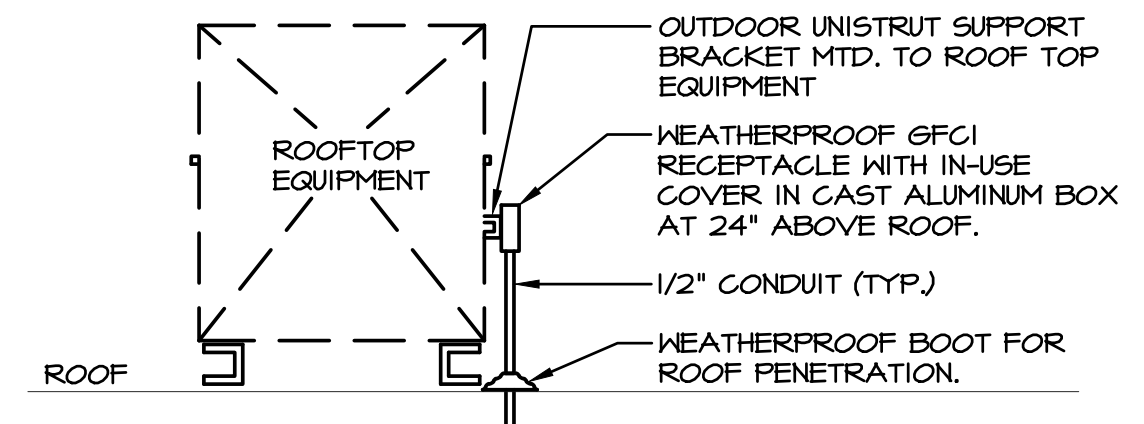
- NEW MOTORIZED DOORS WITH PUSH PAD CONTROLS BY G.C. - 120 VOLT, 1 PHASE. E.C. TO INSTALL ALL POWER AND CONTROL WIRING AND MOUNT PUSH PAD CONTROL STATIONS. ALL CONDUIT AND WIRING MUST BE CONCEALED. FIELD VERIFY ROUTING AND PUSH PAD LOCATIONS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- VENDING MACHINE - 120V, 1.0KW ASSUMED.
- E.C. TO PROVIDE 8"x3/4" D TREATED PLYWOOD FOR TELE/DATA EQUIPMENT INSTALLED ON WALL OF I.T. ROOM.
- 12"x2"x1/4" CU GROUND BAR WITH INSULATED STAND-OFFS, AND #6 COPPER GROUND TO EXISTING BUILDING GROUNDING ELECTRODE SYSTEM.
- PROVIDE 120V POWER AND DISCONNECT FOR EXTERIOR MOUNTED LED BACKLIT SIGN. FINAL CONNECTION TO SIGN WILL BE BY SIGN INSTALLER. PROVIDE WEATHERPROOF JUNCTION BOX WITHIN 6' OF SIGN AT LOCATION COORDINATED WITH SIGN INSTALLER.
- ELECTRIC WATER COOLER - 120V, 1.0KW ASSUMED.
- TRANSFORMER SUSPENDED FROM STRUCTURE ABOVE.
- REFER TO ROOF RECEPTACLE DETAIL FOR MOUNTING REQUIREMENTS.
- LIGHTING CONTROL RELAY PANEL - TO BE WATTSTOPPER 8-RELAY PEANUT PANEL #LP85-8-G-15. EQUALS BY ACUITY CONTROLS, LEVITON. ALL LIGHTING CONTROLS TO BE PHOTOCELL ON, PHOTOCELL OFF, UNLESS OTHERWISE NOTED.
- PROVIDE LOW VOLTAGE LIGHTING OVERRIDE SWITCH (WATTSTOPPER #LVSW-100) TO CONTROL BUILDING LIGHTING CONTROL RELAY #1 IN LRP.
- PROVIDE LOW VOLTAGE EXTERIOR PHOTOCELL MOUNTED HIGH AT A SUITABLE OUTSIDE LOCATION FOR LIGHTING RELAY PANEL - TO BE WATTSTOPPER #EM-24A2.
- PROVIDE 120V POWER FOR DRY PIPE SPRINKLER SYSTEM COMPRESSOR (120V, 1.0KW ASSUMED) AND LOW AIR PRESSURE SUPERVISORY PANEL (120V, 0.2KW ASSUMED).
- PROVIDE A SEPARATE HOT AHEAD OF ALL CONTROLS FOR EMERGENCY BATTERY OPERATION.
- WIRE EXIT SIGN AHEAD OF ALL LIGHTING CONTROLS.
- 500KH PROTERRA BATTERY CHARGING CABINET - SEE ONE LINE DIAGRAM AND STUB-UP LOCATION DETAIL ON DRAWING E-1 FOR ADDITIONAL DETAILS.
- PROVIDE WALL MOUNTED DATA RACK. ALL HEAD-END EQUIPMENT IN RACK IS TO BE PROVIDED BY LAKETRAN'S I.T. AND SECURITY VENDORS UNDER SEPARATE CONTRACTS.
- LED SCHEDULE SIGN - 120V, 0.5KW ASSUMED. PROVIDE (1) ONE CAT6 CABLE IN 3/4" CONDUIT FROM SIGN TO SERVER ROOM.
- ADA TYPE PUSHBUTTON FOR TOUCH TO SPEAK OPERATION OF SCHEDULE SIGN SPEAKER, MOUNTED AT 48" ABOVE FINISHED FLOOR.
- PROTERRA BATTERY CHARGING PANEL, POWER DISPENSING BOX AND DOME BUS CHARGER ARE TO BE PROVIDED BY PROTERRA, INSTALLED AND WIRED BY E.C. PROTERRA WILL SUPERVISE THE INSTALLATION AND PROVIDE EXACT LOCATIONS AND CONNECTIONS REQUIRED IN THE FIELD.



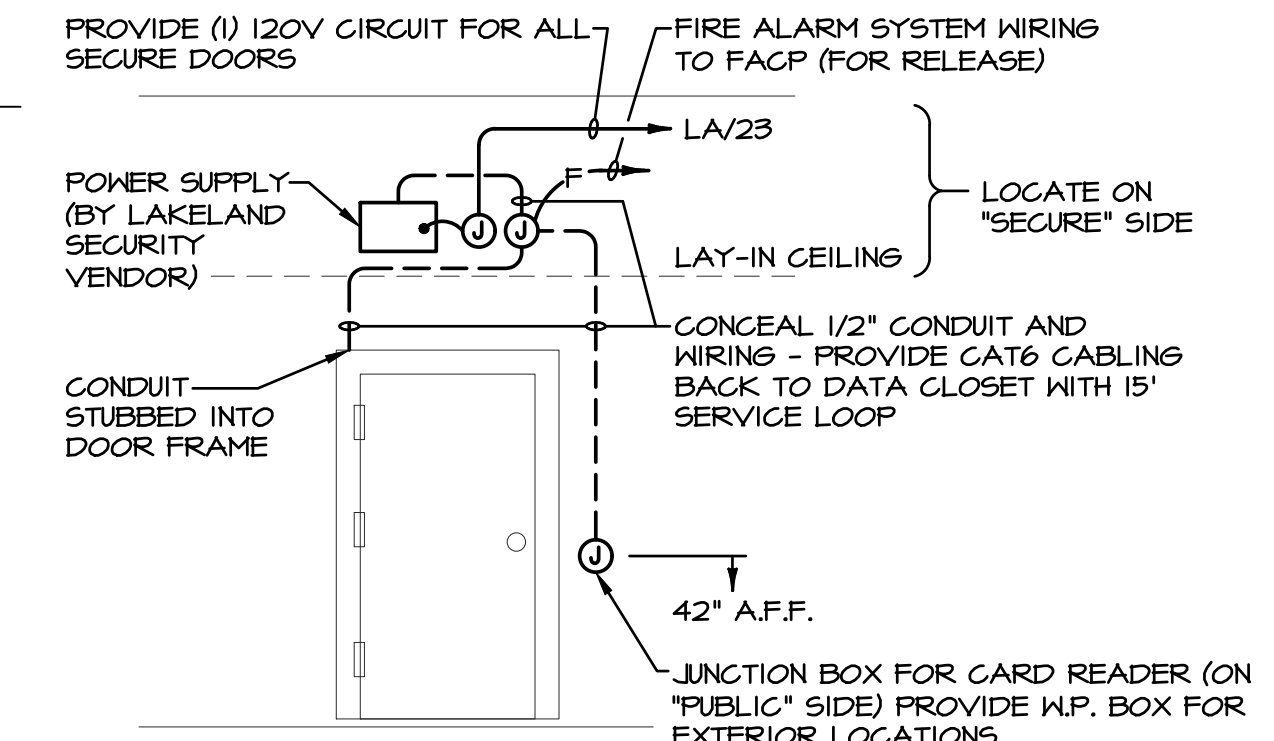
POWER AND COMMUNICATIONS PLAN  
SCALE: 1/8" = 1'-0"



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



ROOF RECEPTACLE DETAIL  
NO SCALE  
NOTES: 1) TYPICAL DETAIL FOR MOUNTING RECEPTACLE TO ROOFTOP MECHANICAL EQUIPMENT.



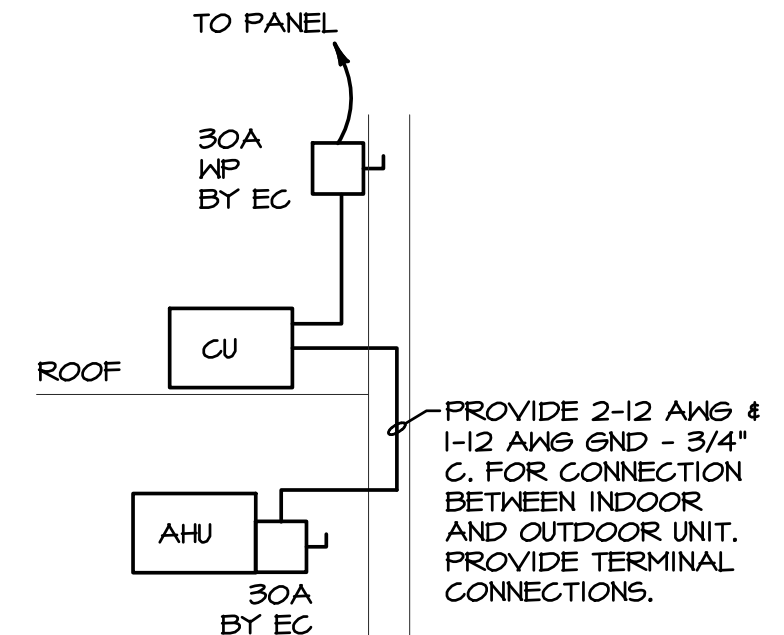
TYPICAL SECURE DOOR "GR" DETAIL  
NO SCALE  
NOTE: VERIFY ALL JUNCTION BOX, CONDUIT, AND POWER REQUIREMENTS WITH LAKELAND COMMUNITY COLLEGE DOOR SECURITY VENDOR BEFORE ROUGH-IN. HID CARD READERS AND SECURE DOOR EQUIPMENT FURNISHED AND PROGRAMMED BY LAKELAND COMMUNITY COLLEGE VENDOR, INSTALLED AND WIRED BY E.C.

MECHANICAL EQUIPMENT WIRING SCHEDULE

ITEM NO.	EQUIPMENT	HP	KW	FLA	VOLTS	Ø	CONNECTION BY EC	PANEL / CKT. NO.	CIRC BKR		WIRING AND CONDUIT	NOTES
									AMPS	POLES		
AHU-1 CU-1	SPLIT SYSTEM #1	-	3.0	-	208	1	②	LA / 13	20	2	2-12 AWG & 1-12 AWG GND - 3/4" C.	
AHU-2 CU-2	SPLIT SYSTEM #2	-	2.3	-	208	1	②	LA / 2,4	20	2	2-12 AWG & 1-12 AWG GND - 3/4" C.	⚠
RTU-1	ROOFTOP UNIT #1	-	18.0	-	480	3	③	HA / 2,4,6	30	3	3-10 AWG & 1-10 AWG GND - 3/4" C.	①
EF-1	EXHAUST FAN #1	FRAC	0.04	-	120	1	DC ⑤	LA / 7 ④	20	1	2-12 AWG & 1-12 AWG GND - 3/4" C.	
EF-2	EXHAUST FAN #2	FRAC	0.04	-	120	1	DC ⑤	LA / 7 ④	20	1	2-12 AWG & 1-12 AWG GND - 3/4" C.	
EW-H	ELECTRIC WATER HEATER #1	-	2.0	-	120	1	□ 30AS	LA / 5	25	1	2-10 AWG & 1-10 AWG GND - 3/4" C.	

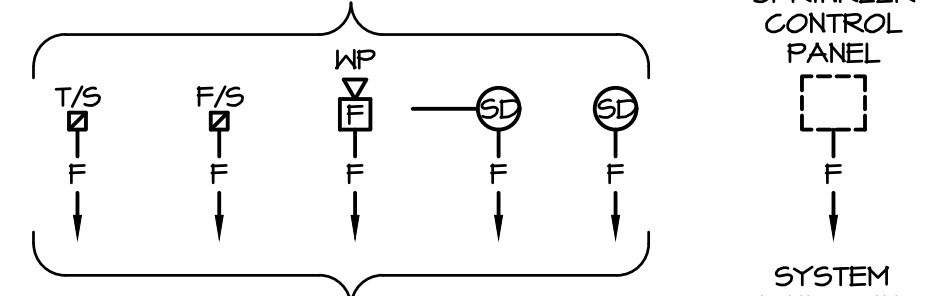
SCHEDULE NOTES

- DUCT SMOKE DETECTOR MOUNTED BY MECHANICAL CONTRACTOR, FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR.
- EQUIPMENT HAS A SINGLE POINT CONNECTION. SEE WIRING DIAGRAM AT RIGHT FOR ADDITIONAL WIRING REQUIREMENTS AND DETAILS.
- EQUIPMENT HAS A FACTORY DISCONNECT SWITCH.
- EQUIPMENT SHARES CIRCUIT WITH OTHER EQUIPMENT.
- PROVIDE AN INTERLOCKING RELAY TO CONTROL 120V EXHAUST FAN WITH 2TV LIGHTS THAT SERVE THE SPACE.

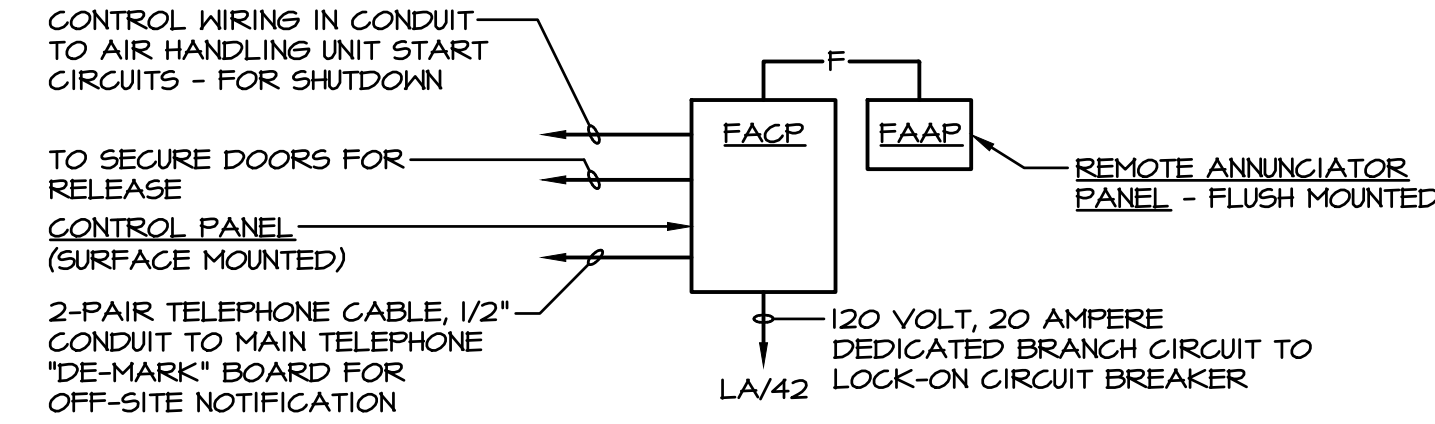


DUCTLESS SPLIT WIRING DIAGRAM  
NO SCALE

TYPICAL DEVICE DESIGNATIONS - REFER TO FLOOR PLANS FOR DEVICE TYPES AND LOCATIONS, AND REFER TO SYMBOL LEGEND FOR DESCRIPTIONS



TYPICAL DEVICE WIRING TO FACP - 18 AWG, 16 AWG AND 14 AWG COPPER CABLES



FIRE ALARM SYSTEM BLOCK DIAGRAM

- ALL 24VDC FIRE ALARM CABLE SHALL BE INSTALLED IN CONDUIT, OR SHALL BE FIRE ALARM/CONTROL TYPE MC CABLE (RED SHEATH). AT THE CONTRACTORS OPTION, PLENUM RATED CABLE MAY BE USED WITHOUT CONDUIT ONLY ABOVE ACCESSIBLE, LAY-IN CEILING, AND IN EXPOSED STRUCTURE AREAS ABOVE 12'-0" A.F.F.
- THE SYSTEM SUPPLIER SHALL DETERMINE THE SIZE, TYPE AND QUANTITY OF 24VDC CABLES FOR THE SYSTEM, AND SHALL FURNISH INSTALLATION FLOOR PLANS FOR REVIEW AND APPROVAL.
- VERIFY QUANTITY AND LOCATION OF SPRINKLER SYSTEM TAMPER AND FLOW SWITCHES WITH THE SPRINKLER SYSTEM CONTRACTOR.

REFER TO THE SPECIFICATIONS FOR ADDITIONAL SYSTEM REQUIREMENTS. ALL POWER SUPPLIES AND BATTERIES SHALL HAVE A 25% SPARE (MINIMUM) CAPACITY FOR FUTURE DEVICES.