

REV	DATE	DESCRIPTION
1	11/08/2021	BID SET
2	12/20/2021	BULLETIN 2
3	1/14/2022	BULLETIN 3
	1/14/2022	ISSUED FOR CONSTRUCTION
4	2/16/2022	BULLETIN 4
5	3/01/2022	BULLETIN 5
9	3/23/2022	BULLETIN 9
10	4/25/2022	BULLETIN 11

POWER & SIGNAL GENERAL NOTES

- VERIFY EXACT LOCATIONS OF HVAC EQUIPMENT, CONDUIT STUB-UPS, AND POWER CONNECTIONS PRIOR TO ROUGH-IN. ALL NEW HVAC EQUIPMENT SHALL BE PROVIDED WITH A FACTORY INSTALLED AND WIRED DISCONNECT SWITCH UNLESS NOTED OTHERWISE.
- VERIFY EXACT LOCATION, MOUNTING HEIGHTS, AND CONDUIT ROUTING FOR ALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND CO2 SENSORS WITH TEMPERATURE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN.
- REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. COORDINATE PROVISIONS FOR ALL CONTROL CONDUIT AND WIRING AS REQUIRED FOR INTERLOCKING OF FANS, MOTORS, ETC. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL DEVICES INSTALLED ON HVAC EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. COORDINATE LOCATION WITH THE MECHANICAL AND/OR PLUMBING CONTRACTOR PRIOR TO COMMENCING ROUGH-IN WORK.
- ALL CONDUITS ON WALL OR COLUMNS SHALL RUN TO ROOF DECK.
- CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF POWER CONDUIT AT REPAIR COUNTER BEFORE BIDDING AND PROVIDING NEW CONDUIT AND WIRE. CONNECT TO EXISTING CIRCUITS. CONTRACTOR TO STUB-UP (1) 1" CONDUIT AND (2) 3/4" CONDUIT FOR POWER, 2" FOR PHONE DATA TO ACCESSIBLE CEILING SPACE OR ROOF STRUCTURE.
- ALL 120 VOLT BRANCH CIRCUITS IN EXCESS OF 75 FEET SHALL HAVE CONDUCTOR SIZE INCREASED A MINIMUM OF ONE CONDUCTOR SIZE. INSTALLING CONTRACTOR SHALL DETERMINE ACTUAL CONDUCTOR SIZE TO BE INSTALLED TO ADHERE TO VOLTAGE DROP REQUIREMENTS.
- REFER TO ARCHITECTURAL ELEVATIONS FOR DIMENSIONS OF OUTLET LOCATIONS. DO NOT SCALE OFF DRAWINGS.
- ALL PHONE JACKS IN RETAIL SPACE SHALL BE MOUNTED SUCH THAT THEY ARE CENTERED BETWEEN THE DISPLAY PANELS AND NOT IN A SPACE THAT IS SMALLER THAN 12". ALL PHONES AT STRUCTURAL COLUMNS SHALL BE MOUNTED IN A SINGLE-GANG BACK-BOX.
- ALL INTRUSION DEVICES AND CCTV DEVICES REQUIRE BACK-BOX AND 1/2" CONDUIT WITH PULL STRING, TAGGED WITH SOURCE AND DESTINATION BACK TO TOP CLOSET. AT WALL LOCATIONS, STUB CONDUIT INTO ACCESSIBLE CEILING SPACE OR TOP OF WALL. IN RETAIL CEILING AREA, BURGULAR ALARM CONTRACTOR TO RUN WIRING TIGHT TO STRUCTURE. NO CONDUIT NEEDED. VERIFY EXACT DEVICES AND LOCATIONS WITH BURGULAR ALARM CONTRACTOR. KEYPAD, INTERCOM, AND INTERCOM SHOULD BE INSTALLED BY OWNER.
- TELEPHONE AND DATA OUTLETS: PROVIDE BACKBOX AND CONDUIT WITH PULL CORD TAGGED WITH SOURCE AND DESTINATION, STUBBED UP TO ACCESSIBLE CEILING SPACE. CONDUIT IN WALLS OR ON COLUMNS SHALL BE 1" UNLESS OTHERWISE NOTED. CONDUIT IN SLABS SHALL BE 1" UNLESS OTHERWISE NOTED. REFER TO OWNER DIAGRAMS FOR LOCATIONS OF TERMINALS AND CONDUIT INSIDE OWNER SUPPLIED COUNTERS. CONDUITS AT PARTIAL HEIGHT WALLS SHALL BE ROUTED VIA THE NEAREST FULL HEIGHT WALL.
- ALL CONDUIT STUBS FOR LOW-VOLTAGE CABLING SHALL HAVE PLASTIC BUSHINGS ON ENDS OF CONDUIT.
- NEW RECEPTACLES AND TELEDATA OUTLETS MOUNTED ON COLUMNS IN RETAIL AREA SHALL BE LOCATED ON THE SIDE OF COLUMNS THAT IS FACING AWAY FROM FRONT ENTRANCE.

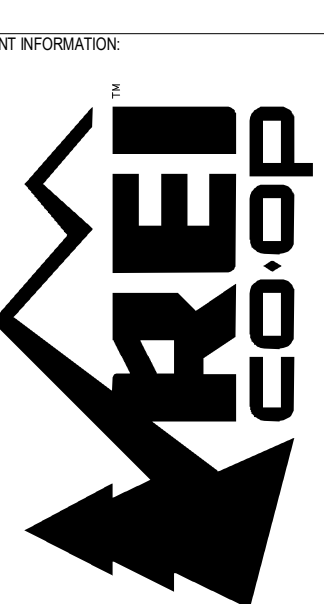
POWER & SIGNAL KEY NOTES

- EC TO PROVIDE IN-SLAB CONDUIT RUN FOR EAS PEDESTALS. EC SHALL TRENCH FLOOR FOR CONDUIT RUN TO EAS PEDESTALS AND SHALL ROUTE CONDUIT FROM EAS PANEL TO EAS PEDESTAL LOCATIONS, AND STUB CONDUIT UP 6" AFF FOR PEDESTALS. EC SHALL PROVIDE 3/4" CONDUIT TO EAS PEDESTALS.
- LOCATION IS SHOWN FOR REFERENCE ONLY. EAS PANEL AND DUPLEX RECEPTACLE SHALL BE SURFACE MOUNTED NEAR MAIN ENTRANCE. FIELD COORDINATE FINAL LOCATION.
- PROVIDE 120V POWER FOR DOOR OPERATOR. COORDINATE EXACT REQUIREMENTS WITH SUPPLIER.
- PROVIDE PUSH-BUTTON FOR HANDICAP DOOR ACCESS. COORDINATE EXACT REQUIREMENTS WITH DOOR SHOP DRAWINGS. VERIFY LOCATION OF DEVICES, MOUNTING AND REQUIREMENTS PRIOR TO CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
- VERIFY LOCATION WITH SECURITY VENDOR. REFER TO GENERAL NOTE 10 THIS SHEET.
- BURGULAR KEYPAD AT +8" AFF TO HIGHEST OPERABLE PART. PROVIDE 1/2" CONDUIT FROM DECK TO 45" AT INSIDE WALL.
- RECEPTACLES ARE SHOWN FOR REFERENCE ONLY. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH CASEWORK VENDOR.
- COORDINATE EXACT LOCATION OF RETAIL COUNTER CONDUIT STUB-UP WITH ARCHITECTURAL SHEETS.
- EXISTING (1) 1" CONDUIT FOR POWER AND (2) 2" CONDUIT FOR TELEDATA FROM STUB-UP LOCATION TO NEAREST EXTERIOR WALL. E.C. SHALL PROVIDE HOMERUN AND MAKE FINAL CONNECTION TO PANEL. E.C. SHALL PROVIDE JUNCTION BOX IN CASEWORK FOR POWER TO RECEPTACLES. COORDINATE LOCATION OF JUNCTION BOX AND CONNECTION TO RECEPTACLES WITH CASEWORK VENDOR.
- PROVIDE 1/2" CONDUIT WITH CONTROL WIRING FROM THERMOSTAT SENSORS AT +0" AFF TO CORRESPONDING UNIT.
- PROVIDE CEILING-MOUNTED RECEPTACLE AT BOTTOM OF STRUCTURE FOR PUBLIC VIEW MONITOR. SEE A.144 FOR LOCATION AND MOUNTING HEIGHT.
- PROVIDE JUNCTION BOX AND DEDICATED CIRCUIT FOR HAND DRYER. COORDINATE MOUNTING HEIGHT OF JUNCTION BOX WITH MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE (1) 4" CONDUIT FROM TOP RACK TO IDF. VERIFY TERMINATION POINT AND ROUTING PRIOR TO BID. ADD PULL BOXES AT ALL 90 DEGREE TURNS. LAND CONDUIT AT 0' ABOVE PLUMB ENCLOSURE.
- PROVIDE (2) 2" (1) 2" FROM AC-1 TO CONDENSATE PUMP, WHICH IS MOUNTED TO AC-1. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.
- PROVIDE CEILING-MOUNTED NEMA TYPE L14-20R 208V/1P RECEPTACLE FOR BOAT LIFT. VERIFY EXACT MOUNTING LOCATION IN THE FIELD.
- EXHAUST FAN TO BE CIRCUITED TO LOCAL FITTING ROOM CIRCUIT. EXHAUST FAN SHALL BE CONTROLLED BY LOCAL OCCUPANCY SENSOR LOCATED ON THE SPACE IT SERVES. SEE SHEET E.300 FOR OCCUPANCY SENSOR LOCATION.
- PROVIDE (1) 4" CONDUIT FROM JUNCTION BOX IN TOP ROOM TO JUNCTION BOX IN RPSU STORAGE AREA. ADD PULL BOXES AT ALL 90 DEGREE TURNS.
- PROVIDE 2"x2"x8" PULL BOX FOR TOP CONDUIT.
- PROVIDE (1) 1-1/2" CONDUIT FOR TELEDATA RECEPTACLES. SEE GENERAL NOTE 11 FOR ADDITIONAL REQUIREMENTS.
- EC TO PROVIDE FLUSH FLOOR MOUNTED FLOOR BOX RECEPTACLE HUBBELL #84329 FLOOR BOX, WITH #5A825 ELECTRICAL PLATE FLOOR BOX. EC SHALL PROVIDE (1) 3/4" CONDUIT FOR POWER TO NEAREST COLUMN OR EXTERIOR WALL. ELECTRICAL CONTRACTOR SHALL PROVIDE HOMERUN AND MAKE FINAL CONNECTION TO PANEL.
- EC SHALL PROVIDE (1) 3/4" CONDUIT FOR POWER TO NEAREST COLUMN OR EXTERIOR WALL. ELECTRICAL CONTRACTOR SHALL PROVIDE HOMERUN AND MAKE FINAL CONNECTION TO PANEL.
- INSTALL TENANT FURNISHED BOATBIKE LIFT CONTROLS. COORDINATE LOCATION WITH OWNER'S REPRESENTATIVE. CONTROLS ARE SURFACE MOUNTED. NO CONDUIT REQUIRED.
- PROVIDE JUNCTION BOX RECESSED IN CEILING FOR TRAFFIC COUNTER. TRAFFIC COUNTER SHALL BE ORIENTED SUCH THAT THE LONGEST DIMENSION OF THE TRAFFIC COUNTER IS PARALLEL WITH THE DOOR. VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE A 1" CONDUIT WITH PULLSTRING.
- MOUNT TIMER SWITCH IN RECESSED 2-GANG BOX AT 48" ON WALL ADJACENT TO ROPE CUTTER. DO NOT MOUNT ABOVE ROPE CUTTER.
- PROVIDE JUNCTION BOX FOR DOOR COUNTER AND CAMERA SURFACE MOUNTED ADJACENT TO ENTRY DOOR. VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE A 3/4" CONDUIT WITH PULLSTRING.
- PROVIDE CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING FOR ELECTRONIC ARTICLE SURVEILLANCE (EAS) SYSTEM. CONDUIT TO STUB OUT TO WALL AT +54" AFF AT LOCATION SHOWN. COORDINATE WITH CHECKPOINT SECURITY DRAWINGS.
- EAS PANEL, PROVIDED 12"x12"x2" ENCLOSURE WITH (2) JUNCTION BOXES MOUNTED IN SIDES OF BOX FOR EAS PEDESTAL POWER SUPPLIES. MOUNT ABOVE CEILING IN LOCATION ACCESSIBLE BY TENANT'S STEP-LADDER. COORDINATE REQUIREMENTS WITH REI CONSTRUCTION MANAGER.
- PROVIDE CONDUIT AND WIRING FROM MOTORIZED DOOR TO J BOX ON INTERIOR OF PREMISES. J-BOX TO BE MOUNTED A MINIMUM OF 18" AFF. TENANT WILL PROVIDE HOME RUN AND FINAL CONNECTION TO PANEL. DOOR INSTALLATION INCLUDES DOOR OPERATOR CONTROLS. PROVIDE A W/TC 38M EXTERIOR THREE-BUTTON LOCKOUT SURFACE MOUNT CONTROL STATION. CONTROL STATION SHALL BE LOCATED ADJACENT TO DOOR. PROVIDE WIRING FROM CONTROL STATION TO MOTOR PER MANUFACTURER REQUIREMENTS.
- PROVIDE DUPLEX FOR POWER TO SINK SENSOR. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
- RECEPTACLE SHALL BE INSTALLED 18" MAX ABOVE THE TOP OF THE WINDOW. REFER TO ARCHITECTURAL SHEETS FOR EXACT LOCATION.
- PROVIDE 2" CONDUIT WITH PULL STRINGS STUBBED INTO SPACE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS.
- PROVIDE ELECTRICAL CONNECTIONS FOR WASHER & DRYER. COORDINATE ELECTRICAL REQUIREMENTS WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE LOCATION WITH OWNER. PROVIDE (2) 1/2" (1) 1/2"x3.34" TO ELECTRIC DRYER LOCATION.
- EXISTING DEVICES IN THIS SPACE SHALL BE REWIRING TO NEW PANELS.
- PROVIDE (2) 50 AMP, 2-POLE NON-FUSED, TOGGLE DISCONNECT SWITCHES FOR INSTANTANEOUS WATER HEATER. VERIFY LOCATION OF DISCONNECTS WITH ARCHITECT. VERIFY ADDITIONAL REQUIREMENTS WITH PLUMBING CONTRACTOR. DISCONNECTS SHALL BE INTERNALLY LOCKABLE AND SHALL BE CLEARLY AND PERMANENTLY LABELED AS "WH-1".
- PROVIDE SERVICE DISCONNECT AND TAP BOX. REFER TO SHEET E.300 FOR ADDITIONAL INFORMATION.

SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF POWER AND SIGNAL DEVICES.



1 1ST FLOOR PLAN - POWER & SIGNAL  
E-100 SCALE: 1/8" = 1'-0"



PROJECT INFORMATION

CALISONRTKL  
Legal Entity  
Building Name  
City, State, Zip  
XXX-XXXXXX

CONSULTANT INFORMATION

artm  
engineering consultants  
1101 W. 19th St., Suite 100  
Glenwood Springs, CO 81601

PROJECT INFORMATION

REI-GLENWOOD SPRINGS  
3300 SOUTH GLEN AVENUE  
GLENWOOD SPRINGS,  
CO 81601

REVISIONS

Table with 3 columns: REV, DATE, DESCRIPTION. Includes revision 1: 1/10/2021 BID SET, 2: 12/20/2021 BULLETIN 2, 3: 1/14/2022 ISSUED FOR CONSTRUCTION, 4: 2/16/2022 BULLETIN 4, 5: 3/01/2022 BULLETIN 5, 6: 3/23/2022 BULLETIN 9, 7: 4/25/2022 BULLETIN 11

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SHEET TITLE

PANEL SCHEDULES

SHEET NUMBER

E-500

### NOVAR CONTROL NOTES:

NOTE: NOT ALL OF THE FOLLOWING WILL BE USED AT EVERY LOCATION.

- 1. ZONE 'A' - EMPLOYEE AND CUSTOMER LIGHTING (NOVAR OUTPUT #1) = TYPE 'C2' FIXTURES SHALL TURN ON TO 50% DURING EMPLOYEE HOURS AND RAISE TO 100% DURING CUSTOMER HOURS. TYPE 'C2' FIXTURES SHALL DIM CONTINUOUSLY BASED ON PHOTOSENSOR READINGS. DIMMING SYSTEM TO BE PROVIDED WITH DEMAND RESPONSE CONTROL INPUT TO REDUCE TOTAL LIGHTING LOAD BY 15% WHEN SIGNAL IS RECEIVED.
2. ZONE 'B1' - EMPLOYEE HOURS 1 (NOVAR OUTPUT #2) = CONTROLLED BY NOVAR TIME SCHEDULE WHEN EMPLOYEES ONLY ARE IN THE FACILITY. THIS OUTPUT SHALL CONTROL ALL LAMPS IN THE FIXTURE. DIMMING SYSTEM TO BE PROVIDED WITH DEMAND RESPONSE CONTROL INPUT TO REDUCE TOTAL LIGHTING LOAD BY 15% WHEN SIGNAL IS RECEIVED.
3. ZONE 'B2' - EMPLOYEE HOURS 2 (RETAIL SPACE) (NOVAR OUTPUT #3) = CONTROLLED BY NOVAR TIME SCHEDULE WHEN EMPLOYEES ONLY ARE IN THE FACILITY. THIS OUTPUT SHALL CONTROL ALL LAMPS IN THE FIXTURE. ALL FIXTURES ON THIS FUNCTION SHALL BE CONTROLLED THROUGH A DIMMABLE OVERRIDE SWITCH LOCATED IN EMPLOYEE OFFICE.
4. ZONE 'V' - EMPLOYEE AND CUSTOMER LIGHTING (NOVAR OUTPUT #1) = TYPE 'C2' FIXTURES SHALL TURN ON TO 50% DURING EMPLOYEE HOURS AND RAISE TO 100% DURING CUSTOMER HOURS. DIMMING SYSTEM TO BE PROVIDED WITH DEMAND RESPONSE CONTROL INPUT TO REDUCE TOTAL LIGHTING LOAD BY 15% WHEN SIGNAL IS RECEIVED.
5. ZONE 'V' - SPARE.
6. ZONE 'V' - CUSTOMER LIGHTING (NOVAR OUTPUT #5) = 100% OF ALL TRACK LIGHT FIXTURES (TYPES 'B2', '1C', & 'W').
7. ZONE 'V' - SIGNS AND EXTERIOR LIGHTS: (NOVAR OUTPUT #8) CONTROLLED BY NOVAR TIME SCHEDULE AND OUTDOOR PHOTOCCELL.
8. ZONE 'V' - SHOW WINDOWS (NOVAR OUTPUT #9) CONTROLLED BY NOVAR TIME SCHEDULE.
9. ZONE 'V' - SITE LIGHTING (NOVAR OUTPUT #10) CONTROLLED BY NOVAR TIME SCHEDULE AND OUTDOOR PHOTOCCELL.
10. EGRESS AND SECURITY LIGHTING = ON 24-HOURS (NOT CONTROLLED BY NOVAR).
11. FIXTURES LABELED 'C2' SHALL HAVE AN INTEGRAL BATTERY PACK, CIRCUITED TO THE REMOTELY OPERATED CIRCUIT BREAKER FOR EMERGENCY CONTROL.
12. FIXTURES LABELED 'NL' SHALL HAVE A CONTINUOUS HOT TO OPERATE 24 HOURS AND NOT ON NOVAR CONTROL.

### PANEL SCHEDULE GENERAL NOTES

- 1. OVERCURRENT DEVICE ENCLOSURE SHALL BE IDENTIFIED AS SERIES RATED AND LABELED IN ACCORDANCE WITH N.E.C. 110-22 AND DEVICES SHALL BE A.I.C. RATED PER MANUFACTURER.
2. SEE SHEET E-501 FOR WIRE SIZES OF ALL NEW CIRCUITS.

### PANEL SCHEDULE KEY NOTES

- (1) ALL CIRCUIT BREAKERS ON NOVAR CONTROL SHALL BE TYPE FL BREAKER.
(2) EMERGENCY LIGHTS FED BY THIS CIRCUIT SHALL HAVE BOTH A CONTROLLED AND UNCONTROLLED CIRCUIT ROUTED TO IT.
(3) PROVIDE (6) SPARE CONTROLLABLE 'PL' BREAKERS IN PANELS 'L' AND 'L1'.
(4) PROVIDE GFCI RATED CIRCUIT BREAKER FOR EQUIPMENT INDICATED.

Branch Panel: L. Location: Space 318. Supply From: SEE SINGLE LINE DIAGRAM. Mounting: RECESSED. Volts: 480/277 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 42 KAIC. Mains Rating: 200 A. MCB Rating: 200 A.

Branch Panel: L1. Location: Space 318. Supply From: SEE SINGLE LINE DIAGRAM. Mounting: RECESSED. Volts: 120/208 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 22 KAIC. Mains Rating: 225 A. MCB Rating: 225 A.

Branch Panel: R1. Location: Space 318. Supply From: SEE SINGLE LINE DIAGRAM. Mounting: RECESSED. Volts: 120/208 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 22 KAIC. MLO Rating: 100 A. MLO Rating: 100 A.

Branch Panel: R2. Location: Space 318. Supply From: SEE SINGLE LINE DIAGRAM. Mounting: RECESSED. Volts: 120/208 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 22 KAIC. Mains Rating: 100 A. MLO Rating: 100 A.

Branch Panel: MDP. Location: Space 318. Supply From: SEE SINGLE LINE DIAGRAM. Mounting: RECESSED. Volts: 480/277 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 65 KAIC. Mains Rating: 600 A. MCB Rating: 600 A.

Branch Panel: LDP. Location: Space 318. Supply From: SEE SINGLE LINE DIAGRAM. Mounting: RECESSED. Volts: 120/208 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 22 KAIC. Mains Rating: 400 A. MCB Rating: 350 A.