| | IATIONS | | |
|--|---|------------------------|--|
| | A | | н |
| | | LID | |
| A AC | AMPS, AIR (COMPRESSED) ALTERNATE CURRENT | HB HMD | HOSE BIBB HUMIDIFIER |
| AF | AMPERE FUSE, AIR FILTER | HP | HORSEPOWER |
| AFF AHU | ABOVE FINISHED FLOOR AIR HANDLING UNIT | HPS HSTAT | HIGH PRESSURE SODIUM HUMIDISTAT |
| AMP | AMPERE | HTG | HEATING |
| ASHRAE | AMERICAN SOCIETY OF HEATING, | HTR | HEATER |
| | REFRIGERATION AND AIR CONDITIONING | HVAC | HEATING, VENTILATING |
| | ENGINEERS. | LIMO | AND AIR-CONDITIONING |
| ASME | AMERICAN SOCIETY OF MECHANICAL ENGINEERS | HWR HWS | HEATING WATER RETURN HEATING WATER SUPPLY |
| ASTM | AMERICAN SOCIETY OF TESTING | HZ | HERTZ |
| | AND MATERIALS | | 1 |
| ATS | AUTOMATIC TRANSFER SWITCH | | |
| AUX | AUXILIARY | ID | INSIDE DIAMETER |
| AV AVG | AIR VENT AVERAGE | ie Insul | INVERT ELEVATION INSULATION |
| AWG | AMERICAN WIRE GAUGE | IN WC | IN OF WATER COLUMN |
| AWS | AMERICAN WELDING SOCIETY | <u>-</u> | |
| | В | | J |
| BD | BACK DRAFT DAMPER, BLOW DOWN | J-BOX | JUNCTION BOX |
| BFV | BUTTERFLY VALVE | | K |
| BKR | BREAKER | | |
| | _ | KCMIL KV | 1,000 CIRCULAR MILS KILOVOLT |
| | <u> </u> | KW | KILOWATT |
| С | CONDUIT | KWH | KILOWATT-HOUR |
| CFM | CUBIC FEET PER MINUTE | | |
| CHWS | CHILLED WATER SUPPLY | | L |
| CHWR | CHILLED WATER RETURN | 1.47 | |
| CKT | CIRCUIT | LAT LB | LEAVING AIR TEMPERATURE POUNDS |
| G ClC | CENTERLINE | LDB | LEAVING DRY BULB |
| CLG CMU | CEILING CONCRETE MASONRY UNIT | LF | LINEAR FEET |
| CO | CLEAN OUT | LTG | LIGHTING |
| COL | COLUMN | LWB | LEAVING WET BULB |
| CONC | CONCRETE, CONCENTRIC | LWT | LEAVING WATER TEMPERATI |
| CONT | CONTINUOUS, CONTINUATION | | М |
| CV | COPPER, COOLING UNIT CHECK VALVE | | |
| CW | COLD WATER | MRV | MANUAL RELIEF VALVE |
| | | MAX | MAXIMUM |
| | D | MBH MCA | 1,000 BTU PER HOUR MINIMUM CIRCUIT AMPACITY |
| | | MCB | MAIN CIRCUIT BREAKER |
| dB | DECIBEL DECIBEL | MCC | MAIN CONTROL CENTER |
| DB DC | DRY BULB DIRECT CURRENT | MD | MOTORIZED DAMPER |
| DEG | DEGREES | MDP MECH | MAIN DISTRIBUTION PANEL MECHANICAL |
| DET | DETAIL | MFR | MANUFACTURER |
| DIA | DIAMETER | | |
| DIM | DIMENSION | | N |
| DISC DN | DISCONNECT DOWN | | |
| DP | DISTRIBUTION PLAN | N/A | NOT APPLICABLE |
| DS | DOWN SPOUT | NEC NEMA | NATIONAL ELECTRICAL COD NATIONAL ELECTRICAL |
| DWG | DRAWING | NEWA | MANUFACTURER'S ASSOCIA |
| | E | NFPA | NATIONAL FIRE PROTECTION |
| /r\ | | | ASSOCIATION |
| (E) EA | EXISTING EACH | NIC | NOT IN CONTRACT |
| EAT | ENTERING AIR TEMPERATURE | NO NTS | NORMALLY OPEN NOT TO SCALE |
| ECC | ECCENTRIC | (N) | NEW |
| EDB | ENTERING DRY BULB | (, | 0 |
| EF | EXHAUST FAN | | |
| EJ EL | EXPANSION JOINTS ELEVATION | OA | OUTSIDE AIR |
| ELEC | ELECTRICAL | OBD | OPPOSED BLADE DAMPER |
| EMERG | EMERGENCY | OC OD | ON CENTER OUTSIDE DIAMETER |
| ENCL | ENCLOSURE | 0S&Y | OUTSIDE DIAMETER OUTSIDE STEM & YOKE |
| EPO EOUID | EMERGENCY POWER OFF | OSHA | OCCUPATIONAL SAFETY |
| EQUIP | EQUIPMENT | | AND HEALTH ADMINISTRATION |
| ESP ETR | EXTERNAL STATIC PRESSURE EXISTING TO REMAIN | | _ |
| EWB | ENTERING WET BULB | | Р |
| EWT | ENTERING WATER TEMPERATURE | PD | PRESSURE DROP |
| EXH EXIST | EXHAUST EXISTING | PDU | PRESSURE DISTRIBUTION UI |
| EXIST | EXISTING EXTERNAL, EXTERIOR | PG | PRESSURE GAUGE |
| EST | ESTIMATE | PH | PHASE |
| | F | PNEU PNL | PNEUMATIC PANEL |
| | | PRV | PRESSURE REDUCING VALV |
| °F | DEGREES FAHRENHEIT | PSF | POUNDS PER SQUARE FOO |
| FACD | FIRE ALARM | PSI | POUNDS PER SQUARE INCH |
| FACP FAV | FIRE ALARM CONTROL ALARM FIRE ALARM VALVE | PSIG | POUNDS PER SQUARE IN G |
| FB0 | FURNISHED BY OTHERS | PT PV | PRESSURE TRANSMITTER PLUG VALVE |
| FC0 | FLOOR CLEAN OUT | PVC | POLYVINYL CHLORDINE |
| FCU | FAN COIL UNIT | | S. Editoria |
| FD | FIRE DEPARTMENT VALVE | | Q |
| FLEX FLR | FLEXIBLE FLOOR | 27:: | · · · · · · · · · · · · · · · · · · · |
| FLOUR | FLUORESCENT | QTY | QUALITY |
| FPM | FEET PER MINUTE | | R |
| FT | FLOW TRANSMITTER | R | RELIEF |
| | G | RA | RETURN AIR |
| GA | GAUGE | RCP | REFLECTED CEILING PLAN, |
| GA GAL | GAUGE GALLON | | REINFORCED CONCRETE PIP |
| GALV | GALVANIZED | RD | ROOF DRAIN |
| | GENERAL CONTRACTOR | RE | REFERENCE, REFER |
| GC | GRADE CLEAN OUT | RECIRC | RECALCULATE |
| | GROUND FAULT CIRCUIT | REINF REQD | REINFORCING REQUIRED |
| GC | | | IVERIOUVED |
| GC GCO GFCI | INTERRUPTER | | REVISION. REVISE |
| GC GCO GFCI GFR | INTERRUPTER GROUND FAULT RELAY | REV RG | REVISION, REVISE RETURN GRILLE |
| GC GCO GFCI GFR GND | INTERRUPTER GROUND FAULT RELAY GROUND | REV | |
| GC GCO GFCI GFR | INTERRUPTER GROUND FAULT RELAY | REV RG RLA RM | RETURN GRILLE RUNNING LOAD AMPS ROOM |
| GC GCO GFCI GFR GND GPH | INTERRUPTER GROUND FAULT RELAY GROUND GALLONS PER HOUR | REV RG RLA | RETURN GRILLE RUNNING LOAD AMPS |

| SIM SMACNA SP SPEC TSTAT TYP | SIMILAR SHEET METAL AND AIR-CONDITIONIN CONTRACTORS NATIONAL ASSOCIATI STATIC PRESSURE SPECIFICATION T THERMOSTAT |
|---|---|
| SPEC TSTAT | SPECIFICATION T |
| | THERMOSTAT |
| | TYPICAL |
| | U |
| UL UON UPS | UNDERWRITERS LABORATORIES, INC. UNLESS OTHERWISE NOTED UNINTERRUPTED POWER SUPPLY |
| | <u> </u> |
| V VA VAC VAV VD VEL VERT VTR | VOLT VOLT-AMPERE VOLTS ALTERNATING CURRENT VARIABLE AIR VOLUME VOLUME DAMPER VELOCITY VERTICAL VENT THROUGH ROOF VARIABLE VOLUME TERMINAL W |
| W W/ | WATT, WIDTH WITH |
| w/o | WITHOUT |
| WB WCO | WET BULB WALL CLEAN OUT |
| WDP | WATER DISTRIBUTION POINT WATER PRESSURE DROP |
| wpd wt | WATER PRESSURE DROP WATERTIGHT, WEIGHT |
| | X |
| XFMR | TRANSFORMER |

Walnut Creek, CA Seattle, WA Boston, MA PH: (800) 889-WRMS Fax: (925) 933-5167 Drawn By: CU ALLEN TELESCOPE ARRAY HAT CREEK RADIO OBSERVATORY HAT CREEK, CA Designed By: RAS Date: 9/10/03 GENERAL ABBREVIATIONS One Inch at Full Scale Dwg. No: 12-5-03 DK2 RAC Proj. No.: 02-242 G002 Date Drawn By Appr. By

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