






ELECTRICAL ABBREVIATIONS

| | | | | | |
|-----------|---|-----------|---|--------|-------------------------------|
| PH | SINGLE-PHASE | FA | FIRE ALARM | RCP | REFLECTED CEILING PLAN |
| 1P | SINGLE POLE | FAAP | FIRE ALARM ANNUNCIATOR PANEL | REC | RECESSED |
| 2/C | TWO-CONDUCTOR | FABL | FIRE ALARM BELL | RECEPT | RECEPTACLE |
| 3/C | THREE-CONDUCTOR | FABX | FIRE ALARM BOX | RCD | RIGID GALVANIZED STEEL |
| 3PH | THREE-PHASE | FACP | FIRE ALARM CONTROL PANEL | RM | ROOM |
| 4/C | FOUR-CONDUCTOR | FC | FOOTCANDLE | RMS | ROOT MEAN SQUARE |
| 4W | FOUR-WIRE | FI | FILM ILLUMINATOR | REQD | REQUIRED |
| A/C UNIT | AIR CONDITIONING UNIT | FIXT | FIXTURE | SDC | SHORT CIRCUIT |
| A/E | ARCHITECT/ENGINEER | FLA | FULL LOAD LOADS | SES | SERVICE ENTRANCE SECTION |
| ASP | ALARM ANNUNCIATOR PANEL | FLT | FLOODLIGHT | SD | SMOKE DETECTOR |
| AC | ABOVE COUNTER | FLUOR | FLOURESCENT | SF | SQUARE FOOT (FEET) |
| ACC | ACCESSIBLE | FLUOR FIX | FLOURESCENT FIXTURE | SHT | SHEET |
| ADDL | ADDITIONAL | FTOUT | TELEPHONE FLOOR OUTLET | SI | INTERNATIONAL SYSTEM OF UNITS |
| ADJ | ADJACENT, ADJOINING | FP | FIRE PROTECTION | SPEC | SPECIFICATION |
| ADO | AUTOMATIC DOOR OPENER | FTT | FEET OR FOOT | SPST | SINGLE POLE, SINGLE THROW |
| AMP | AMPERE FRAME OR AMP FUSE | FUS SW | FUSED SWITCH | SURF | SURFACE |
| AFC | ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT | FVNR | FULL VOLTAGE NON-REVERSING | SW | SWITCH |
| | | FVR | FULL VOLTAGE REVERSING | SWBD | SWITCHBOARD |
| | | | | SWGR | SWITCHGEAR |
| AFG | ABOVE FINISHED FLOOR | G OR GND | GROUND OR GENERATOR | TC | TIME CLOCK |
| AFF | ABOVE FINISHED GRADE | GEN | GENERATOR | TEL | TELEPHONE |
| AH | AMPERE HOUR | GFCI | GROUND-FLOOR CIRCUIT INTERRUPTER | TP | TWISTED PAIR |
| AHJ | AUTHORITY HAVING JURISDICTION | GFI | GROUND FAULT INTERRUPTER | TPS | TWISTED PAIR SHIELDED |
| AIC | AMPERE INTERRUPTING CAPACITY | GTB | GROUND TERMINAL BOX | TB | TELEPHONE TERMINAL BOARD |
| ALT | ALTERNATE | | | TYP | TYPICAL |
| AMB OR A | AMBIENT | HID | HIGH INTENSITY DISCHARGE | UFD | UNDERFLOOR DUCT |
| AMP | AMPERE | HOA | HAND-OFF-AUTOMATIC | UGND | UNDERGROUND |
| ARCH | ARCHITECT | HP | HORSEPOWER | UL | UNDERWRITERS LABORATORY |
| ASG | AMPS SHORT CIRCUIT | HT | HEIGHT | UN | UNLESS OTHERWISE NOTED |
| ATS | AMPERE TRIP | HZ | HERTZ | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| AT | AUTOMATIC TRANSFER SWITCH | IESNA | ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA | UTIL | UTILITY |
| AUTO | AUTOMATIC | IMC | INTERMEDIATE METAL CONDUIT | | |
| AV | AUDIO VISUAL | INCAND | INCANDESCENT | | |
| | | IR | INFRARED | V | VOLT |
| BAT | BATTERY | IWH | INSTANTANEOUS WATER HEATER | VA | VOLT AMPERE |
| BC | BARE COPPER | | | VFD | VARIABLE FREQUENCY DRIVE |
| BD | BOARD | J-BOX | JUNCTION BOX | VOLT | VOLTAGE |
| BFF | BELOW FINISH FLOOR | | | | |
| BIL | BASIC INSULATION LEVEL | KV | KILOVOLT | W | WATT |
| BLDG | BUILDING | KVA | KILOVOLT AMPERE | WH | WATER HEATER |
| BPP | BOILER PLANT INSTRUMENTATION PANEL | KVAH | KILOVOLT AMPERE PER HOUR | WP | WEATHERPROOF |
| BRKR | BREAKER | KVAR | KILOVOLT AMPERE REACTIVE | | |
| BYF | BY PASS | KW | KILOWATT | XFER | TRANSFER |
| | | KWH | KILOWATT HOUR | XFMR | TRANSFORMER |
| | | KWHM | KILOWATT HOUR METER | | |
| C | CONDUIT | | | | |
| CAB | CABINET | LED | LIGHT EMITTING DIODE | | |
| CALC | CALCULATE | LF | LINEAR FEET (FOOT) | | |
| CAP | CAPACITY | LUM | LUMEN | | |
| CAT | CATALOG | LP | LIGHT POLE | | |
| CATV | COMMUNITY ANTENNA TELEVISION | LPS | LOW PRESSURE SODIUM | | |
| CCT | CONTRACTOR | LRA | LOCKED ROTOR AMPS | | |
| CCTV | CLOSED CIRCUIT TELEVISION | LTCP | LOCAL TEMPERATURE CONTROL PANEL | | |
| CD | CANDELA | LT | LIGHT | | |
| CD | CONSTRUCTION DOCUMENTS | LTC | LIGHTING | | |
| CF | CONTRACTOR FURNISHED | LTG PNL | LIGHTING PANEL | | |
| CF/CI | CONTRACTOR FURNISHED/CONTRACTOR INSTALLED | LTL | LIGHTNING | | |
| CF/O | CONTRACTOR FURNISHED/OWNER INSTALLED | LV | LOW VOLTAGE | | |
| CFE | CONTRACTOR FURNISHED EQUIPMENT | | | | |
| CHW | CHILLED WATER | MATV | MASTER ANTENNA TELEVISION SYSTEM | | |
| CHWP | CHILLED WATER PUMP | MC | MAXIMUM | | |
| CKT BRKR | CIRCUIT BREAKER | MC | METAL-CLAD | | |
| CLT | CURRENT LIMITING FUSE | MCA | MINIMUM CIRCUIT AMPS | | |
| CLG | CEILING | MCB | MAIN CIRCUIT BREAKER | | |
| CMU | CONCRETE MASONRY UNIT | MCC | MOTOR CONTROL CENTER | | |
| COAK | COAX CABLE | MDP | MAIN DISTRIBUTION PANEL | | |
| COMM | COMMUNICATION | MECH | MECHANICAL | | |
| COMP | COMPARTMENT | MG | MOTOR GENERATOR | | |
| CONC | CONCRETE | MH | MANHOLE | | |
| CONT | CONTINUE | MIN | MINIMUM | | |
| CONTR | CONTRACTOR | MOCF | MAXIMUM OVERCURRENT PROTECTION | | |
| COORD | COORDINATE | MLO | MAIN LUGS ONLY | | |
| CPT | CONTROL POWER TRANSFORMER | MNT | MOUNT | | |
| CRI | COLOR RENDERING INDEX | MNTD | MOUNTED | | |
| CT | CURRENT TRANSFORMER | MTG | MOUNTING | | |
| CTV | CABLE TELEVISION | MTS | MANUAL TRANSFER SWITCH | | |
| CUR | COPPER | MV | MEDIUM VOLTAGE | | |
| CU FT | CUBIC FEET | MWA | MEGAVOLT-AMPERE | | |
| CUR | CURRENT | MW | MEGAWATT MICROWAVE | | |
| | | | | | |
| DB | DECIBEL OR DIRECT BURIAL | NA | NOT APPLICABLE | | |
| DC | DIRECT CURRENT | NEC | NATIONAL ELECTRICAL CODE | | |
| DGP | DIMMER CONTROL PANEL | NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION | | |
| DEG C | DEGREES CELSIUS | | | | |
| DEG F | DEGREES FAHRENHEIT | NEUT OR N | NEUTRAL | | |
| DEMO | DEMOLITION | NFPA | NATIONAL FIRE PROTECTION ASSOCIATION | | |
| DIA | DIAGRAM | NTC | NOT IN CONTRACT | | |
| DISC | DISCONNECT | NL | NIGHT LIGHT | | |
| DISTR | DISTRIBUTION | NO | NORMALLY OPEN | | |
| DISTR PNL | DISTRIBUTION PANEL | NS | NO SCALE | | |
| DNR SW | DIMMER SWITCH | NTS | NOT TO SCALE | | |
| DN | DOWN | | | | |
| DPOT | DOUBLE POLE, DOUBLE THROW | OC | ON CENTER | | |
| DPST | DOUBLE POLE, SINGLE THROW | OD | OUTSIDE DIAMETER | | |
| DRSW | DOOR SWITCH | OL | OVERLOAD | | |
| DS | DISCONNECT SWITCH | | | | |
| DWG | DRAWING | P | POLE | | |
| | | PA | PUBLIC ADDRESS | | |
| EG | EMPTY CONDUIT | PB | PANELBOARD, PULL BOX, OR PUSHBUTTON | | |
| ELE | EQUIPMENT GROUND | PBRU | PREFABRICATED BEDSIDE PATIENT UNIT | | |
| ELEV | ELEVATION | PCB | POLYCHLORINATED BIPHENYL | | |
| ELEC | ELECTRIC OR ELECTRICAL | PEC | PHOTOELECTRIC CELL | | |
| EMER | EMERGENCY | PEDEST | PEDESTAL | | |
| EMI | ELECTROMAGNETIC INTERFERENCE | PEND | PENDANT | | |
| EMT | ELECTRICAL METALLIC TUBING | PF | POWER FACTOR | | |
| ENCL | ENCLOSURE | PH | PHASE | | |
| EPO | EQUIPMENT POWER OFF | PNL | PANEL | | |
| EPFR | EXPLOSION PROOF | POD | POWER OPERATED DAMPER | | |
| ESMT | EASEMENT | PT | POTENTIAL TRANSFORMER | | |
| EW | ELECTRIC WATER COOLER | PTV | POWER TYPE ROOF VENTILATION | | |
| EWI | ELECTRIC WATER HEATER | PVC | POLYVINYL CHLORIDE (PLASTIC) | | |
| EXIST | EXISTING | PWR | POWER | | |





ELECTRICAL SYMBOLS – POWER PLAN

RECEPTACLE, DUPLEX
 RECEPTACLE, DUPLEX ON EMERGENCY POWER
 SWITCH
 K = KEY OPERATED
 M = MOTOR RATED
 OUTLET, TELECOMMUNICATIONS
 PLENUM RATED CAT 5 FOR DATA (2); COLOR "ORANGE"
 PLENUM RATED CAT 5 FOR VOICE (2); COLOR "GREEN"
 FLUSH FACEPLATES: 4 PORT, COLOR IVORY: AWAJA
 JACK INSERTS: MX5-F05: YELLOW: AWAJA
 JACK INSERTS: MX5-F20: GREEN: AWAJA
 JACK INSERTS: MX5-F01 BLACK: AWAJA
 JACK INSERTS: MX5-F06 BLUE: AWAJA
 VARIO ALBANY NY LABELING STANDARD : BLDG #--, FLOOR # & WING,
 CLOSET #, AND JACK #.

ELECTRICAL SYMBOLS – FIRE ALARM

| | |
|---|---|
|  | AUDIBLE VISIBLE SIGNAL — MOUNT AT 80" AFF TO CENTER |
|  | VISIBLE SIGNAL — MOUNT AT 80" AFF TO CENTER |
|  | SMOKE DETECTOR |
|  | HEAT DETECTOR |
|  | MANUAL PULL STATION — MOUNT BETWEEN 42" AND 48" ABOVE FLOOR LEVEL |

ELECTRICAL SYMBOLS – LIGHTING PLAN

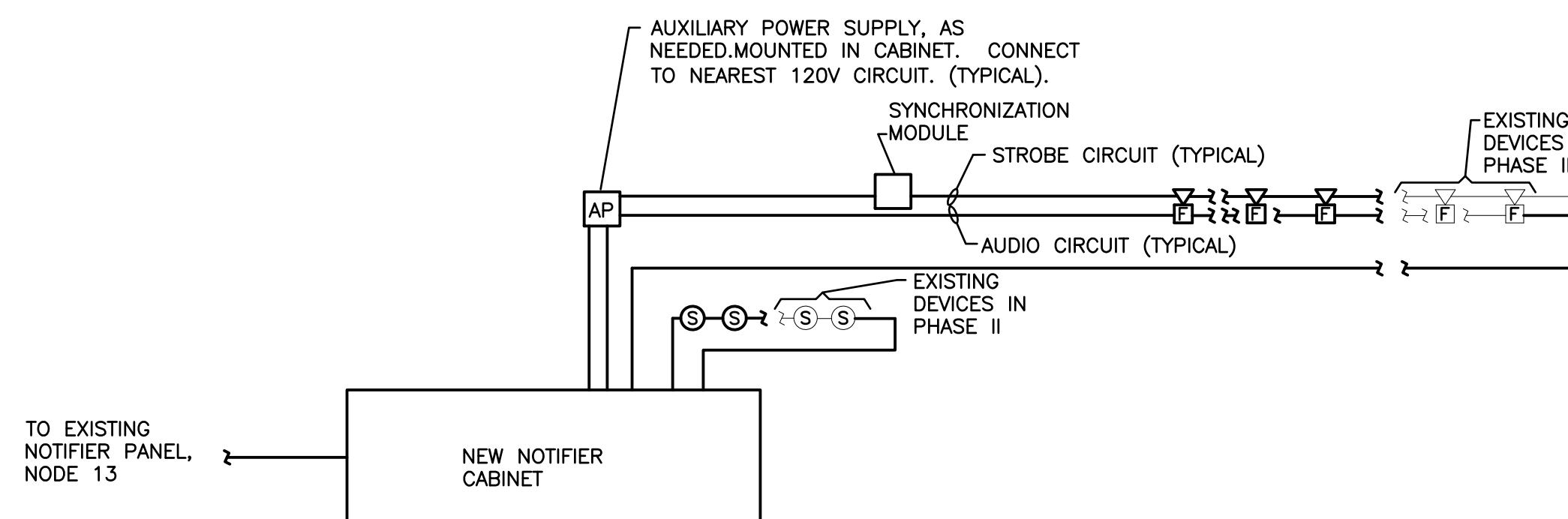
| | |
|---|---|
|  | LIGHT FIXTURE; LETTER INDICATES TYPE. |
|  | LIGHT FIXTURE, WALL MOUNTED |
|  | EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN |
|  | EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN |
| \$ | SINGLE POLE SWITCH |
| \$x | THREEWAY SWITCH |

LIGHTING FIXTURE SCHEDULE

| LABEL | TYPE | DESCRIPTION | LAMPS | VOLTS | BALLAST | MOUNT | MANUFACTURER |
|-------|-------|---|-----------|-------|------------|---------------------|---|
| F1 | FLUOR | VANDAL RESISTANT, DIE FORMED 18 GAUGE COLRD STEEL, POLYESTER POWER COAT FINISH, EXTRUDED UV STABILIZED CLEAR POLYCARBONATE LENS, UL DAMP LOCATION LISTED, INTEGRAL OCCUPANCY SENSOR | (2) F32T8 | 120V | ELECTRONIC | SURFACE | LUMINAIRE LIGHTING "VERTEX 7 CFL 7" SERIES OR EQUAL |
| | | | | | | | |
| EX | LED | EMERGENCY EXIT SIGN; DIE-CAST ALUMINUM HOUSING, BRUSHED ALUMINUM FACEPLATE; MATTE BLACK TRIM, RED LETTERS, NUMBER OF FACES AND ARROWS AS SHOWN ON PLANS. | L.E.D. | 120 | --- | CEILING OR WALL MTD | LITHONIA LES SERIES, MCPHILBEN "T5RSLL" SERIES OR EQUAL |

NOTES:

1. PROVIDE FIXTURE WHIPS FOR ALL FIXTURES REQUIRING THEM.
2. PROVIDE LAMPING FOR ALL FIXTURES.
3. LAMP DESIGNATIONS ARE GE; EQUIVALENTS BY SYLVANIA OR PHILLIPS ARE ACCEPTABLE.
4. CONTRACTOR SHALL VERIFY CEILING TYPES FOR FIXTURES PRIOR TO PURCHASE OF FIXTURES.
5. CONTRACTOR SHALL COORDINATE HEIGHT OF PENDANT LIGHTING FIXTURES WITH ARCHITECTURAL ELEVATION DRAWINGS.
6. LIGHTING FIXTURE FINISH(ES) SHALL BE VERIFIED BY ARCHITECT PRIOR TO ORDERING FIXTURE(S).
7. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS, UNLESS NOTED OTHERWISE.
8. PROVIDE LUMINAIRE DISCONNECTS FOR ALL INTERIOR FLUORESCENT TYPE FIXTURES, T&B STA-KON, IDEAL POWERPLUG, WAGO LUMI-NUTS OR EQUAL.
9. PROVIDE COLD START BALLASTS AT NEEDED LOCATIONS.


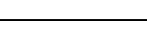
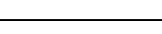




FIRE ALARM RISER DIAGRAM

NO SCALE

UNREVIEWED FINAL DESIGN (100%)
NOT FOR CONSTRUCTION

FFA #7574

| | | | | | | | | | | | | | | | | | |
|------------|--|---|--|---|--|--|--|--|--|--|--|---|--|---|--|--------------|--|
| | | CONSULTANTS: | | ARCHITECT/ENGINEERS: | | Drawing Title ELECTRICAL: SYMBOLS LIST, LIGHTING FIXTURE SCHEDULE AND DETAILS | | Project Title REPAIR HOT WATER LINES PHASE III Stratton VA Medical Center | | Project Number VA 528A8-10-814 | | <div>Office of Construction and Facilities Management</div> <div> Department of Veterans Affairs</div> | | | | | |
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| Revisions: | | Date | | | | | | | | | | | | | | | |