1. NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.

2. ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.

3. MOUNT PANELS IN RESIDENTIAL SPACES SO NO CIRCUIT BREAKER HANDLE

4. ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL". UNLESS OTHERWISE NOTED ALL WIRING SHALL BE 2\*12 AWG AND 1\*12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUNS FED FROM A 20A-1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE \*10 AWG.

5. CONNECT BATTERY BACKED EMERGENCY AND EXIT LIGHTING TO NEAREST LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. CONNECT REMOTE HEADS WITH \*10 AWG COPPER CONDUCTORS. AC EXIT FIXTURES SHALL BE CONNECTED TO NEAREST EMERGENCY CIRCUIT OR AS INDICATED.

6. TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES.

7. SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS (PROVIDED BY ATC CONTRACTOR).

8. FUSES AND OVERLOAD UNITS FOR MOTORS SHALL BE SIZED BASED ON ACTUAL MOTOR NAMEPLATE DATA AND IN ACCORDANCE WITH NEC. CIRCUIT BREAKERS FOR MOTORS ARE SUPPLIED AT MAX VALUE PER NEC (2.5 x FLA). SIZE IN THE FIELD IN ACCORDANCE WITH MFGR RECOMMENDATION.

9. ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.

10. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.

11. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.

12. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.

13. PROVIDE TWO BALLASTS FOR EACH FIXTURE INDICATED AS REQUIRING DUAL LEVEL SWITCHING. ONE BALLAST TO CONTROL OUTER LAMPS AND THE SECOND BALLAST TO CONTROL INNER LAMP(S).

14. COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS OR COMMUNICATIONS CONTRACTOR.

15. LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.

16. OPERATE ALL FLUORESCENT AND METAL HALIDE LAMPS FROM INITIAL INSTALLATION FOR 100 HOURS AT FULL OUTPUT (NO DIMMING) TO SEASON LAMPS AND STABILIZE LAMP COLOR.

17. PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS.

18. THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED TRIP SETTINGS BEFORE ENERGIZING EQUIPMENT.

19. PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.

20. OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70 ARTICLE 406.9

21. ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.

22. PROVIDE LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE SHORT CIRCUIT CURRENT OBTAIN VALUES FROM ENGINEER.

23. PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24

24. IF BUILDING REQUIRES TWO SERVICE ENTRANCES, PROVIDE SIGNS PER NFPA 70-230.

25. OUTLETS INSTALLED IN FIRE RATED WALLS BACK TO BACK SHALL BE SEPARATED BY 24" MINIMUM OR BE PROTECTED WITH "PUTTY PADS" PER 2009 INTERNATIONAL BUILDING CODE SECTION 713.3.2

26. PROVIDE AIR VAPRO BARRIER BOXES FOR WIRING DEVICES IN EXTERIOR WALLS AND INTERIOR SOUND CONTROL WALLS BETWEEN RESIDENT ROOMS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE LESSCO MODEL NUMBER: VAPORBOX

27. MINIMUM WIRE SIZE ON ALL BRANCH CIRCUITS SHALL BE \*12.

## **ABBREVIATIONS**

GROUND FAULT INTERRUPTER

HIGH INTENSITY DISCHARGE

THOUSAND AMP INTERRUPTING CAPACITY

HAND-OFF-AUTOMATIC

THOUSAND CIRCULAR MII

THOUSAND WATTS (KILOWATT)

THOUSAND VOLTS

THOUSAND VOLT-AMPS

LIGHTING CONTACTORS

LCP LATERAL CONTROL PIT

LED LIGHT EMITTING DIODE

GND

GROUND

HORSEPOWER

LIGHTING PANELBOARD ALTERNATING CURRENT, ABOVE COUNTER LTG LIGHTING AMERICANS WITH DISABILITIES ACT LSIG LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT AMP FRAME CIRCUIT BREAKER TRIP FUNCTIONS AS INDICATED ARC FAULT CIRCUIT INTERRUPTER MOTOR CONTROL CENTER ABOVE FINISHED FLOOR MCCB MOLDED CASE CIRCUIT BREAKER ABOVE FINISHED GRADE MAIN CIRCUIT BREAKER AMPERES INTERRUPTING CAPACITY MAIN DISTRUBITION PANEL ALUMINUM MANHOLE AMP TRIP MAIN LUGS ONLY AUTOMATIC TEMPERATURE CONTROL MANUAL TRANSFER SWITCH AUTOMATIC TRANSFER SWITCH NORMALLY CLOSED OF NURSE CALL AMERICAN WIRE GAUGE AWG NATIONAL ELECTRICAL CODE BUILDING NFPA NATIONAL FIRE PROTECTION ASSOCIATION CONDUIT NIGHT LIGHT CIRCUIT BREAKER NORMALLY OPEN CAST IRON NUMBER CKT CIRCUIT OVERLOAD CENTERLINE POLE CENTRAL MAINE POWER (ELECTRIC UTILITY) PUBLIC ADDRESS CONCRETE MASONRY UNIT PUSH BUTTON CURRENT TRANSFORMER POWER FACTOR CONC CONCRET PH PHASE CARBON STEE PANEL TP1-2 TELE-POWER POLE - POLE AND CIRCUIT NUMBER AS INDICATED CABINET UNIT HEATER PSNH PUBLIC SERVICE OF NEW HAMPSHIRE (ELECTRIC UTILITY) DAMP LOCATION POTENTIAL TRANSFORMER ELECTRICAL CONTRACTOR POLYVINYL CHLORIDE EXHAUST FAN ELECTRICAL EQUIPMENT TO BE RELOCATED EXISTING REMAINS IN PLACE ELECTRICAL EQUIPMENT TO REMAIN EXISTING RELOCATE RIGID STEEL CONDUIT EXISTING REMOVE ROOF TOP UNIT ELECTRIC UNIT HEATER ELECTRICAL EQUIPMENT TO REMOVE ELECTRICAL WATER COOLER RVNR REDUCED VOLTAGE, NON-REVESING FACP FIRE ALARM CONTROL PANEL SMART BOARD FAPS FIRE ALARM PULL STATION SUPPLY FAN SINGLE LINE DIAGRAM FIBER REINFORCED PLASTIC FVNR FULL VOLTAGE, NON-REVERSING MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE, MOUNTED AT UNIT FURNISHED WITH UNIT SOLID STATE

SWBD-1 SWITCHBOARD NUMBER AS DESIGNATED

TIME CLOCK

TYPICAL

VOLT

VA VOLT-AMPERE

WATI

WITH

WP WEATHERPROOF

XFMR TRANSFORMER

3PH THREE PHASE

4W FOUR WIRE

3W THREE WIRE

TYP

TRANSFER SWITCH

TOP AND BOTTOM

VFD VARIABLE FREQUENCY DRIVE

EXPLOSION PROOF

UNDERGROUND

## SYMBOL LEGEND

- SURFACE MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING RECESSED MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- (1/4) ELECTRIC MOTOR DRIVEN EQUIPMENT, HP SHOWN
- H, DS, DW  $\odot$  JUNCTION BOX, "H" DENOTES RANGE HOOD, "DS" DENOTES DISPOSAL, "DW" DENOTES DISHWASHER
  - SM MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE
  - DISCONNECT SWITCH, SIZE AND NUMBER OF POLES AS INDICATED ON DRAWING. PROVIDED BY EC UNLESS NOTED OTHERWISE. PROVIDE FUSES WHERE RECOMMENDED BY MANUFACTURER.
  - COMBINATION MOTOR STARTER/ DISCONNECT SWITCH WITH AUXILARY CONTACTS AND HAND-OFF-AUTO SWITCH AND RED RUN LIGHT. PROVIDED AND INSTALLED BY EC UNLESS NOTED OTHERWISE.
  - VFD VARIABLE FREQUENCY DRIVE, PROVIDED BY MC, INSTALLED AND WIRED BY EC
  - DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE.

  - GROUND FAULT DUPLEX RECEPTACLE 20A, 125V, TAMPER PROOF WITH MATCHING PLATE FURNISHED W/ OUTLET. FLUSH MOUNTED 45" AFF EXCEPT AS NOTED.
  - REFRIGERATOR DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT RECEPTACLE AT 48 INCHES
  - ABOVE FINISHED FLOOR.
  - CL FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE- 20A, 125V SPEC GRADE GROUNDING TYPE. "CL" DENOTES CEILING MONTED
  - RANGE OUTLET 50 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
  - → DRYER OUTLET 30 AMP,250 VOLT,GROUNDING TYPE FLUSH MOUNTED 18" AFF

----- RACEWAY & WIRING OR MC CABLE RUN CONCEALED IN WALLS/CEILINGS ---- RACEWAY & WIRING RUN EXPOSED CONCEALED UNDER FLOOR OR BURIED 30" BELOW FINISH GRADE \*\* HP-XX HOME RUN TO PANEL, WITH PANEL AND CIRCUIT NUMBER

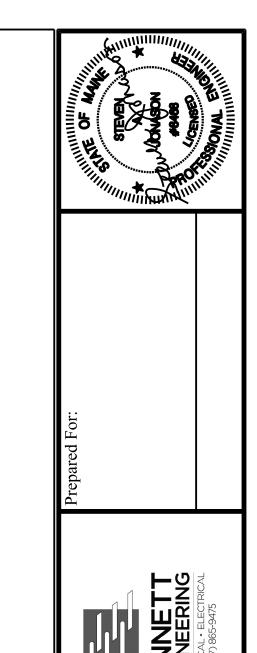
BRANCH CIRCUIT WIRING SHALL CONSIST OF (1)1/2"C-2\*12AWG+1\*12GND UNLESS OTHER WISE NOTED. (\*)ASTERISK DENOTED \*10AWG FOR ALL CIRCUITS CONTAINED IN HOME RUN. (\*\*)DOUBLE ASTRISK DENOTES (1)3/4"C-2\*8AWG+1\*10GND. PROVIDE EQUIPMENT GROUNDS IN ACCORDANCE WITH NFPA 70, ATRICLE 250.

- CABLE TV JUNCTION BOX "CTV", SIZE AS REQUIRED BY CABLE UTILITY
- TV OUTLET LOCATION, CABLE AND JACKS BY EC
- TEMPERATURE CONTROL PANEL, PROVIDED BY MC WIRED BY EC
- PUSHBUTTON FOR ELECTRICALLY OPERATED DOOR, FURN W/ DOOR OPERATOR, WIRED BY EC
- DOOR PUSHBUTTON-DOORBELL
- □ DOOR ELECTRIC STRIKE
- |♀|◇S DOOR CHIME WITH STROBE-ADA COMMUNICATIONS REQUIREMENT
- LIGHTING FIXTURES, CAPITAL LETTERS DENOTE TYPE PER LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCH CONTROL. "ab" INDICATES INBOARD LAMPS CONTROLLED BY OUTBOARD SWITCHED "a" AND "b". DIAGONAL INDICATED NIGHT LIGHT (UNSWITCHED)
- SELF CONTAINED EMERGENCY LIGHT W/2 HEADS DUAL-LITE (LED) MODEL LZ65I-03L, 65 WATTS FOR 90 MINUTES, COLOR BY ARCHITECT
- BATT EMERGENCY LIGHTING BATTERY PACK DUAL-LITE No LM130-12VI-0 SELF-DIAGNOSTIC
- INTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL No CPRD 1203L, COLOR BY ARCHITECT
- EXTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL No OCRD 1203L COLOR BY ARCHITECT
- EXIT LIGHT FIXTURE, UNSWITCHED, DUAL-LITE LX-U-R-W-E OR APPROVED EQUAL

- SECURITY CAMERA LOCATION, COORDINATE AND PROVIDE DUPLEX RECEPTACLE, DATA AND CONDUIT PER MANUFACTURERS RECOMMENDATIONS
- CEILING MOUNTED MOTION SENSOR (WATTSTOPPER OR EQUAL) CORRIDORS: WT-2255 SENSOR & B120E-P POWER PACK. OTHER COMMON SPACES: WT-605 SENSOR & B120E-P POWER PACK. SENSORS AND RELAYS TO CONTROL CIRCUITS IN SPACES INDICATED. DEVICES SHALL PROVIDE FULL COVERAGE IN AREAS INSTALLED. DT INDICATES DUAL TECHNOLOGY PIR INDICATED PASSIVE INFRARED TECHNOLOGY
- $S_{MS}$  WALL MOUNTED SWITCH MOTION SENSOR. MOUNT AT 48" AFF UNLESS OTHER WISE NOTED
- SINGLE POLE SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3=3-WAY, 4=4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.

SWITCH WITH PILOT LIGHT, SWITCHE SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE

- SRF REMOTE RANGE HOOD FAN SWITCH, CONNECT TO HOOD FAN THRU HOOD JUNCTION BOX.
- SRL REMOTE RANGE HOOD LIGHT SWITCH, CONNECT TO HOOD LIGHT THRU JUNCTION BOX
- SB BURNER SAFETY SWITCH, PROVIDE WITH RED PLATE, MOUNTED 72" AFF
- $\square_{\bullet}$   $\square$  SINGLE POLE DIMMER SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF,  $\square_{\bullet}$   $\square_{\bullet}$   $\square_{\bullet}$  3=3-WAY, 4=4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- PC PHOTOCELL
- LC LIGHTING CONTACTOR
- TC TIMECLOCK
- ▼ TELEPHONE/DATA DUAL JACK, MOUNT 18"AFF, RUN TWO CAT 5E CABLES BACK TO TBB DATA JACK, RUN TWO CAT 5E CABLES BACK TO TBB.
- CL FLUSH FLOOR MOUNTED TELEPHONE/DATA DUAL JACK, RUN TWO CAT 5E CABLES BACK TO TBB. "CL" DENOTES CEILING MOUNTED
- ▼ TELEPHONE JACK, MOUNT 18"AFF UNLESS NOTED OTHERWISE, RUN ONE CAT 5E CABLE BACK TO TBB.
- WIFIROUTER, OCE CAT 5E CABLE BACK TO TBB OR IT ROOM. MOUNT ABOVE CEILING, "W" DENOTES WALL MOUNTED AT 72" AFF
- INTERCOM PANEL IN UNIT
- INTERCOM PANEL AT RECEPTION
- FACE FIRE ALARM CONTROL PANEL
- ANN FIRE ALARM ANNUNCIATOR PANEL
- FIRE EXTINGUISHER ELECTRONIC MONITOR-SHALL BE ACCOMPLISHED THROUGH USE OF AN ADDRESSABLE INTERFACE DEVICE AND SHALL PROVIDE INPUT TO THE FACP
- FIRE ALARM AUDIO/VISUAL, MOUNT 6'-8"AFF, NUMBER DENOTES CANDELA RATING. "MH" DENOTES MINIHORN, "CL" DENOTED CEILING MOUNTED. NO DESIGNATION EQUALS 15cd
- F FIRE ALARM PULL STATION, MOUNT 48"AFF
- 15 SM FIRE ALARM VISUAL STROBE ONLY, FLUSH MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATINGS. "CL" DENOTES CEILING MOUNTED
- SYSTEM CONNECTED SMOKE / CARBON MONOXIDE DETECTOR, PHOTOELECTRIC TYPE
- 135° SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
- SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED
- SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED. "ER" DENOTES ELEV RECALL SB SYSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE, WITH SOUNDER BASE
- © CARBON MONOXIDE DETECTOR
- SD DUCT SMOKE DETECTOR & TEST STATION
- FIRE/SMOKE DAMPER, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING CONNECTIONS AND FIRE ALARM DUCT SMOKE DETECTORS, ADDRESSABLE MODULES AND PROGRAMMING.
- F SPRINKLER SYSTEM FLOW SWITCH SUPPLIED BY SPRINKLER CONTRACTOR WIRED BY EC, VERIFY LOCATIONS WITH SPRINKLER SYSTEM TAMPER SWITCH SPRINKLER CONTRACTOR.
- ⊢M MAGNETIC DOOR HOLD NURSE CALL BASE STATION
- NURSE CALL PULL STATION
- MH NURSE CALL ANNUNCIATOR LIGHT
- WP DENOTES WEATHERPROOF CONSTRUCTION RP DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED
- RM DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN
- RL DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED
- RV DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED



BRICK WEST

LECTRICAL N LEGEND, ABBREVIATI