

ELECTRICAL LEGEND

- LIGHTING FIXTURE
- LIGHTING FIXTURE, WALL MOUNTED
- FIXTURE, AS ABOVE, ON EMERGENCY CIRCUIT
- ⊕ EMERGENCY BATTERY TYPE LIGHTING FIXTURE, WALL MOUNT AT 7'-6" A.F.F. UNLESS NOTED OTHERWISE
- ⊕ EXIT SIGN, SINGLE FACE: CEILING MOUNTED; WALL MOUNT AT 7'-6" A.F.F. UNLESS NOTED OTHERWISE
- ⊕ EXIT SIGN, DOUBLE FACE: CEILING MOUNTED; WALL MOUNT AT 7'-6" A.F.F. UNLESS NOTED OTHERWISE
- ⊕ EXIT SIGN, AS ABOVE, WITH DIRECTIONAL ARROWS
- ⊕ SINGLE POLE SWITCH, MOUNT AT 48" A.F.F. U.N.O.
- ⊕ THREE WAY SWITCH, MOUNT AT 48" A.F.F. U.N.O.
- ⊕ FOUR WAY SWITCH, MOUNT AT 48" A.F.F. U.N.O.
- ⊕ INCANDESCENT DIMMER SWITCH, MOUNT AT 48" A.F.F. U.N.O.
- ⊕ MANUAL MOTOR STARTING SWITCH
- ⊕ SWITCH WITH PILOT LAMP
- ⊕ CONTACTOR, AS NOTED
- ⊕ TIME CLOCK, AS NOTED
- ⊕ CONTROL STATION, AS NOTED
- ⊕ 125V.-20A. DUPLEX RECEPTACLE, NEMA CONFIGURATION 5-20R, MOUNT AT 18" A.F.F. UNLESS NOTED OTHERWISE
- ⊕ 125V.-20A. DUPLEX RECEPTACLE, NEMA CONFIGURATION 5-20R, MOUNT AT 9" ABOVE COUNTERTOP HEIGHT NOTED ON PLANS. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ANY CABINETWORK, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CABINETWORK DETAILS.
- ⊕ FLOOR RECEPTACLE 125V.-20A. DUPLEX RECEPTACLE, NEMA CONFIGURATION 5-20R,
- ⊕ WP RECEPTACLE, MOUNT AS ABOVE, WITH WEATHERPROOF COVERPLATE
- ⊕ GF RECEPTACLE, MOUNT AS ABOVE, GROUND FAULT CIRCUIT INTERRUPTER TYPE
- ⊕ 125V.-20A. DUPLEX RECEPTACLE, SPLIT WIRED, TOP SECTION OF RECEPTACLE SHALL BE SWITCHED, BOTTOM SHALL ALWAYS BE HOT.
- ⊕ 125V.-20A. DOUBLE DUPLEX RECEPTACLE NEMA CONFIGURATION 5-20R, MOUNT AT 18" A.F.F.
- ⊕ NEMA 6 - 3 OR RECEPTACLE, MOUNT AT 18" A.F.F. FOR THRU-WALL HEAT PUMP
- ⊕ DUPLEX RECEPTACLE, IN FLUSH FLOOR BOX
- ⊕ PANELBOARD, AS NOTED, MOUNT AT 6'-6" A.F.F. TO TOP
- ⊕ EQUIPMENT CABINET, AS NOTED, MOUNT AT 6'-6" A.F.F. TO TOP
- ⊕ JUNCTION BOX
- ⊕ JUNCTION BOX - WALL MOUNTED
- ⊕ SAFETY DISCONNECT SWITCH
- ⊕ MOTOR STARTER
- ⊕ COMBINATION TYPE MOTOR STARTER
- ⊕ ENCLOSED CIRCUIT BREAKER
- ⊕ SPECIAL PURPOSE RECEPTACLE, AS NOTED
- CONDUIT AND WIRE, CONCEALED IN WALLS OR ABOVE CEILINGS
- - - CONDUIT AND WIRE, BELOW FLOOR
- - - UG CONDUIT AND WIRE, MINIMUM 36" BELOW GRADE
- - - EX EXISTING CONDUIT AND WIRE TO REMAIN
- - - RX EXISTING CONDUIT AND WIRE TO BE REMOVED
- CONDUIT: TURNING UP; TURNING DOWN
- CONDUIT WITH BUSHED OR CAPPED END
- - - LOW VOLTAGE AND/OR CONTROL WIRING
- HOMERUN TO PANELBOARD:
A-1,3
ARROWS INDICATE QUANTITY OF CIRCUITS
CROSSLINES INDICATE QUANTITY OF CONDUCTORS
NOTATION INDICATES PANELBOARD AND CIRCUIT NUMBER TO WHICH CIRCUIT IS TO BE EXTENDED
EXCEPT AS NOTED OTHERWISE, ALL CIRCUITS SHALL CONSIST OF MINIMUM 2#12 AWG CONDUCTORS IN 3/4" CONDUIT. REFER TO THE BRANCH CIRCUIT WIRE SIZING TABLE ON THIS DRAWING FOR FURTHER INFORMATION ON SIZING OF CONDUCTORS FOR LONG CIRCUITS
NOTE THAT AN EQUIPMENT GROUNDING CONDUCTOR (NOT SHOWN) SHALL BE PROVIDED FOR ALL BRANCH CIRCUITS. THIS EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH N.E.C. TABLE 250-95, EXCEPT THAT MINIMUM SIZE SHALL BE #12 AWG

ELECTRICAL ABBREVIATIONS

- A AMPERE(S)
- A.F.F. ABOVE FINISHED FLOOR
- A.I.C. AMPERES INTERRUPTING CAPACITY
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- BG&E BALTIMORE GAS AND ELECTRIC COMPANY
- C CONDUIT
- CAB. CABINET
- CATV CABLE TELEVISION
- CB CIRCUIT BREAKER
- CKT. CIRCUIT
- CLG. CEILING
- CL CURRENT LIGHTING
- CONT CONTINUATION
- C.T. CURRENT TRANSFORMER
- C.U.H. CABINET UNIT HEATER
- DIA. DIAMETER
- DISC. DISCONNECT
- DN. DOWN
- DT DOUBLE THROW
- DWG. DRAWING
- DPDT DOUBLE POLE, DOUBLE THROW
- DPST DOUBLE POLE, SINGLE THROW
- E.C. EMPTY CONDUIT
- EWC ELECTRIC WATER COOLER
- EX. EXISTING
- F.A. FIRE ALARM
- FDR FEEDER
- FL FLOOR
- FLA FULL LOAD AMPERES
- FSS FUSED SAFETY SWITCH
- GALV. GALVANIZED
- GEN. GENERATOR
- GF1 GROUND FAULT CIRCUIT INTERRUPTER
- GRD. GROUND
- GW GROUNDING WIRE
- HID HIGH INTENSITY DISCHARGE
- HOA HAND-OFF-AUTOMATIC
- HP HORSEPOWER
- HPS HIGH PRESSURE SODIUM
- HT HEIGHT
- HV HIGH VOLTAGE
- HZ.~ HERTZ
- Isc SHORT CIRCUIT INTERRUPTING CAPACITY (RMS SYMMETRICAL AMPERES)
- JB JUNCTION BOX
- KV KILOVOLTS
- KVA KILO-VOLT-AMPERES
- KW KILOWATTS
- LRA LOCKED ROTOR AMPERES
- LTG LIGHTING
- LV LOW VOLTAGE
- LVC LOW VOLTAGE CONTROL
- LRA LOCKED ROTOR AMPERES
- M.A.N.C. MAKE ALL NECESSARY CONNECTIONS
- MATV MASTER ANTENNA TELEVISION
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MCM THOUSAND CIRCULAR MILLS
- MCP MOTOR CIRCUIT PROTECTOR
- MH MOUNTING HEIGHT
- MISC. MISCELLANEOUS
- MLO MAIN LUGS ONLY
- MSP MOTOR STARTER PANEL
- MT. MOUNT
- MTD. MOUNTED
- MTG. MOUNTING
- N. NEUTRAL
- N.C. NORMALLY CLOSED
- NEC NATIONAL ELECTRICAL CODE
- NFSS NON-FUSED SAFETY SWITCH
- NIC NOT IN CONTRACT
- N.O. NORMALLY OPEN
- No. NUMBER
- NTS NOT TO SCALE
- O.H. OVERHEAD
- Ø PHASE
- P POLE
- PB PUSH BUTTON
- PCB POLYCHLORINATED BIPHENYLS
- PF POWER FACTOR
- PL PILOT LIGHT
- PNL PANELBOARD
- PT POTENTIAL TRANSFORMER
- PVC POLYVINYL CHLORIDE
- REQ'D REQUIRED
- RLA RUNNING LOAD AMPERES
- RMS ROOT MEAN SQUARE
- Rx REMOVE EXISTING
- SEC SECONDARY
- S/N SOLID NEUTRAL
- SPDT SINGLE POLE, DOUBLE THROW
- SPST SINGLE POLE, SINGLE THROW
- ST SINGLE THROW
- SW SWITCH
- SWBD SWITCHBOARD
- SWGR SWITCHGEAR
- SYM SYMMETRICAL
- TEL TELEPHONE
- TTB TELEPHONE TERMINAL BOARD
- TV TELEVISION
- TYP TYPICAL
- UG UNDERGROUND
- UH UNIT HEATER
- UNO UNLESS NOTED OTHERWISE
- V VOLTS
- VA VOLT-AMPERE
- W WIRE, WATTS
- W/M WIREMOLD
- WP WEATHERPROOF
- XFMR TRANSFORMER
- XP EXPLOSION PROOF
- 1P SINGLE POLE
- 2P DOUBLE POLE
- 3P THREE POLE
- 4P FOUR POLE

GENERAL NOTES - ELECTRICAL WORK

1. DRAWINGS SHALL NOT BE SCALED
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES. THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ALL OTHER DRAWINGS AND SPECIFICATIONS SHALL BE CONSULTED AND COORDINATED WITH PRIOR TO ROUGH-IN.
3. WHEREVER POSSIBLE, THE CONTRACTOR SHALL OBTAIN ACTUAL ROUGH-IN DRAWINGS FOR THE ACTUAL ITEM OF EQUIPMENT TO BE INSTALLED PRIOR TO ROUGH-IN. THIS SHALL APPLY TO ALL EQUIPMENT, WHETHER IT IS TO BE INSTALLED BY THE CONTRACTOR OR BY THE OWNER.
4. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT ALL NEW ELECTRICAL WORK TO BE INSTALLED IN FINISHED AREAS, AS DESCRIBED IN SPECIFICATION DIVISION 16000, BE INSTALLED CONCEALED WITHIN NEW OR EXISTING WALLS, FLOORS OR CEILINGS. ANY AND ALL CUTTING AND PATCHING OF SURFACES SHALL BE INCLUDED BY THE CONTRACTOR IN HIS BID. NO SUBSEQUENT ALLOWANCE WILL BE MADE FOR CUTTING AND PATCHING WORK WHICH MAY BE REQUIRED UNDER THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DRAWINGS TO DETERMINE WHICH WALLS ARE NEW AND WHICH WALLS ARE TO REMAIN. EXISTING WALLS SHALL BE PATCHED READY TO RECEIVE NEW FINISHES WHERE APPLICABLE, OR SHALL BE PATCHED TO MATCH SURROUNDING SURFACES WHERE NEW FINISHES ARE NOT INDICATED. ALL PATCHING SHALL BE DONE TO THE COMPLETE SATISFACTION AND APPROVAL OF THE ARCHITECT. SURFACE METAL RACEWAYS SHALL BE PERMITTED IN FINISHED AREAS ONLY WHERE SPECIFICALLY APPROVED IN THE FIELD BY THE ARCHITECT.
5. PRIOR TO PURCHASE AND INSTALLATION OF ANY MOTOR CONTROL EQUIPMENT (STARTERS, ETC.), THE CONTRACTOR SHALL VERIFY THE ACTUAL MOTOR ELECTRICAL CHARACTERISTICS, IN PARTICULAR STARTER OVERLOADS SHALL BE SIZED IN ACCORDANCE WITH ACTUAL MOTOR RUNNING LOAD AMPERES.

GENERAL NOTES - FIRE ALARM SYSTEM

- A. FIRE ALARM SYSTEM WIRING QUANTITIES, SIZES AND ROUTING SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS AND REQUIREMENTS OF THE FIRE ALARM SYSTEM MANUFACTURER, EXCEPT WHERE MINIMUM SIZES ARE INDICATED. NOTHING ON THESE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED SO AS TO CONTRADICT THE FIRE ALARM SYSTEM MANUFACTURER'S INSTRUCTIONS.
- B. THE MINIMUM FIRE ALARM SYSTEM WIRE SIZE SHALL BE #14 AWG FOR INDICATING CIRCUITS AND #18 AWG FOR INITIATING AND ANNUNCIATION CIRCUITS.
- C. NO WIRING OTHER THAN THAT DIRECTLY ASSOCIATED WITH THE FIRE ALARM SYSTEM AND ITS AUXILIARY FUNCTIONS SHALL BE PERMITTED IN FIRE ALARM RACEWAYS.
- D. ALL FIRE ALARM SYSTEM JUNCTION BOXES, ETC. SHALL BE PAINTED RED AND SHALL BE NEATLY STENCILED IN BLACK LETTERS "FIRE ALARM".
- E. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND QUANTITY OF SPRINKLER FLOW AND VALVE TAMPER SWITCHES WITH APPROVED SPRINKLER SHOP DRAWINGS.
- F. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATIONS OF DUCT SMOKE DETECTORS AND DUCT SMOKE DAMPERS WITH THE MECHANICAL DRAWINGS AND THE ACTUAL FIELD DUCTWORK INSTALLATION.
- G. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL CEILING MOUNTED DEVICES WITH ALL NEW AND EXISTING LIGHTING FIXTURES, AIR DIFFUSERS, REGISTERS, SPRINKLER HEADS AND OTHER CEILING FIXTURES, ETC.
- H. FURNISH AND INSTALL ALL REQUIRED INTERLOCK WIRING BETWEEN FIRE ALARM SYSTEM AND AIR HANDLING EQUIPMENT CONTROLS AND/OR DUCT SMOKE DAMPERS AS REQUIRED TO PERFORM THE AIR HANDLING SYSTEM SHUTDOWN FUNCTIONS AS DESCRIBED IN THE PROJECT SPECIFICATIONS OR AS REQUIRED BY CODE.
- I. REFER TO 1/8" SCALE FLOOR PLANS FOR 120 VOLT POWER CONNECTIONS TO DUCT SMOKE DETECTORS AND DUCT SMOKE DAMPERS. MAKE ALL FINAL CONNECTIONS AS MAY BE REQUIRED.

GENERAL NOTES - ELEVATOR INSTALLATION

- A. ALL WORK IN AND ASSOCIATED WITH THE ELEVATOR MACHINE ROOM AND ELEVATOR SHAFTS SHALL BE DONE IN STRICT ACCORDANCE WITH ALL REQUIREMENTS OF THE STATE OF MARYLAND ELEVATOR CODE, THE SAFETY CODE FOR ELEVATORS AND ESCALATORS (ANSI 17.1, LATEST EDITION), ALL APPLICABLE LOCAL, STATE AND NATIONAL STANDARDS, AS WELL AS ALL REQUIREMENTS OF THE ELEVATOR INSPECTOR AND THE ELEVATOR CONTRACTOR.
- B. PRIOR TO ROUGH-IN, COORDINATE THE LOCATIONS AND METHODS OF ALL ELECTRICAL WORK TO BE INSTALLED WITH THE ELEVATOR CONTRACTOR, AND VERIFY THAT IT IS IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS LISTED IN NOTE A ABOVE.
- C. REFER TO THE ELEVATOR AND FIRE ALARM SYSTEM SPECIFICATIONS FOR DETAILS OF ELEVATOR RECALL AND SHUT-DOWN REQUIREMENTS.

TELECOMMUNICATIONS SYSTEM

- ▼ TELEPHONE OUTLET-BELL ATLANTIC DIRECT LINE-WALL MOUNT AT 18" A.F.F. UNLESS NOTED OTHERWISE
STUB CONDUIT ABOVE CEILING WITH PULLSTRING FOR OTHERS
- ▼ W TELEPHONE OUTLET-BELL ATLANTIC DIRECT LINE-WALL MOUNT AT 42" A.F.F. UNLESS NOTED OTHERWISE
STUB CONDUIT ABOVE CEILING WITH PULLSTRING FOR OTHERS

SECURITY/VANDAL DETECTION SYSTEM

- ⊕ DC MAGNETIC DOOR CONTACT
- ⊕ MD MOTION DETECTOR
- ⊕ KP KEYPAD STATION, WALL MOUNT AT 48" A.F.F.
- ⊕ EL ELECTRICALLY OPERATED LOCK
- ⊕ PE PUSH-TO-EXIT STATION
- ⊕ AH ALARM HORN

FIRE ALARM SYSTEM

- ⊕ HORN/FLASHING LIGHT COMBINATION, MOUNT AT 7'-6" A.F.F.
- ⊕ FL FLASHING LIGHT, MOUNT AT 7'-6" A.F.F.
- ⊕ MS MANUAL PULL STATION, MOUNT AT 48" A.F.F.
- ⊕ HD HEAT DETECTOR, 135F. RATE OF RISE TYPE
- ⊕ SD SMOKE DETECTOR, CEILING MOUNTED
- ⊕ DSD DUCT TYPE SMOKE DETECTOR
- ⊕ FS SPRINKLER FLOW SWITCH
- ⊕ VTS SPRINKLER VALVE TAMPER SWITCH

SOUND SYSTEM

- ⊕ SPEAKER, CEILING MOUNTED
- ⊕ MICROPHONE OUTLET, WALL MOUNT AT 18" AFF
- ⊕ FLOOR MOUNTED SCOREBOARD CONNECTION FOR GYMNASIUM
- ⊕ INTERCOM CALL SWITCH, MOUNT AT 42" AFF.
STUB CONDUIT FROM SWITCH BOX ABOVE CEILING WITH PULL STRING.
(SWITCH AND WIRING TO BE PROVIDED BY BALTIMORE SOUND)



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LEGEND
ABBREVIATIONS
AND NOTES

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