

SECTION 20000 - BASIC ELECTRICAL REQUIREMENTS

A. NOTE
1. THE ABBREVIATION LSO&C WHEREVER IT APPEARS IN THESE ELECTRICAL DRAWINGS AND/OR SPECIFICATIONS SHALL REFER TO "LIMITED STORE DESIGN AND CONSTRUCTION"...
B. GENERAL REQUIREMENTS
1. THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS...

A. UNITED STATES
1. FURNISH AND INSTALL A SYSTEM OF CONDUIT RACEWAYS, OUTLET BOXES AND PULL WIRES AS SHOWN ON THE DRAWINGS...
B. CANADA
1. ALL 250V CABLES SHALL BE CATED FROM EXPOSURE TO 5'-0" LOOP OF CABLE TO BE LEFT AT DUP AND 10'-0" LOOP OF CABLE TO BE LEFT AT EUP...
SECTION 20023 - CONTROL VOLTAGE ELECTRICAL POWER CABLES
A. UNITED STATES
1. FURNISH AND INSTALL A SYSTEM OF CONDUIT RACEWAYS, OUTLET BOXES AND PULL WIRES AS SHOWN ON THE DRAWINGS...

F. FLEXIBLE METAL CONDUIT, MC TYPE CABLE OR ACSQ(CANADA) PROVIDE RIGID CONDUIT FROM THE NON-SALES TO THE SALES ROOMS, ONCE IN THE SALES ROOMS, MC CABLE IS ACCEPTABLE IF INSTALLED IN A NEAT, WORKMANLIKE MANNER.
1. ADDITIONALLY, FLEXIBLE METAL CONDUIT, MC TYPE CABLE OR ACSQ(CANADA) SHALL BE USED FOR THE FOLLOWING APPLICATIONS:
a. FORMAL CONNECTIONS TO MOTORS.
b. FORMAL CONNECTIONS INTO AND OUT OF THE TRANSFORMER.
c. FORMAL CONNECTIONS TO VIBRATING EQUIPMENT.
d. INTER-CONNECTIONS BETWEEN ALL ACCESSIBLE LIGHT FIXTURES AND JUNCTION BOXES.
e. FORMAL CONNECTIONS WHERE RIGID CONDUIT IS NOT PRACTICAL.
f. IN WALLS (FOR LIGHT SWITCHES AND 120 VOLT POWER RECEPTABLES AND HVAC CONTROL EQUIPMENT).

3. ELECTRICAL CONTRACTOR IS TO CONNECT LIGHTING BRANCH CIRCUITS TO APPROPRIATE LOAD TERMINALS OR PRG LAMP PANEL PROVIDED WITHIN ITS ENCLOSURE PER LIGHTING ZONES INDICATED IN THE PANEL SCHEDULE (I.E. ZONE A, B, C, OR DIAMOND CURRENT LIMITING BREAKER SCHEDULE).
6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE CONDUIT SYSTEM INTO THE LOW VOLTAGE SECTION OF THE IFS PANEL.
SECTION 20272S-WIRING DEVICES
1. THIS CONTRACTOR SHALL FURNISH AND INSTALL SWITCHES AND RECEPTABLES, UNLESS NOTED OTHERWISE, AS NECESSARY FOR A COMPLETE INSTALLATION.
SECTION 20281S-ENCLOSED SWITCHES AND CIRCUIT BREAKERS
1. SAFETY AND DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, QUICK-MAKE, QUICK-BREAK FUSE OR NON-FUSE WITH RATINGS AND SIZES AS NOTED ON PLANS AND INDICATED BY CODES.
SECTION 202810S-INT. LIGHTING
1. THIS CONTRACTOR SHALL FURNISH AND INSTALL LIGHTING FIXTURES AND LAMPS AS SHOWN ON THE FIXTURE SCHEDULE.
SECTION 20505S-IDENTIFICATION FOR ELECTRICAL SYSTEMS
1. FOR ALL IFS PROJECTS ALL WIRING SHALL BE COLOR-CODED AS FOLLOWS:
a. NEUTRAL - WHITE
b. PHASE A OR L1 - BLACK
c. PHASE B OR L2 - RED
d. PHASE C OR L3 - BLUE
e. GROUND - GREEN
SECTION 20600S-ELECTRICAL CONTRACTOR PROVIDED DEVICE SCHEDULE
A. DELIVERY BUZZER SYSTEM
1. TRANSFORMER PLATE - EDWARDS N4563
2. TRANSFORMER - EDWARDS N4699
3. PUSH BUTTON - EDWARDS N4633
4. ADAPT-A-BUZZER - EDWARDS N450A-05
5. STRAP MOUNTED BUZZER - EDWARDS N4104A-05
B. FLOOR BOXES
1. 4" DIAMETER PVC FLOOR BOX ADJUSTABLE MOUNTING CLIP - HUBBELL CFB31R4CP
2. 4" DIAMETER VC RECESSED FLOOR BOX (FOR OR GROUND USE) - CFB31R4PB
3. 4" DIAMETER FIRE RATED POKE THRU FLOOR BOX BRASS COVER - HUBBELL ST1FCBS
4. 4" FIRE RATED POKE-THROUGH W/ JUNCTION BOX - HUBBELL STR4PTTT
5. 4" DIAMETER FIRE RATED POKE THRU BRASS COVER/PLATE - HUBBELL S1R4C1VYBS
6. 4" DIAMETER FLOOR BOX 2X2 SUB-PLATE - HUBBELL S1R4SP2K1D1LFX
7. 4" DIAMETER RECESSED FLOOR BOX BRASS COVER - HUBBELL CFB31R4C1VYBS
C. RECEPTABLES
1. 20 AMP WHITE USB CHARGER DUPLEX RECEPTACLE - HUBBELL USB20RW
2. 15 AMP IVORY CLOCK OUTLET - MULBERRY METAL PRODUCTS A0856
3. 20 AMP RED DUPLEX RECEPTACLE - PASS AND SEYMOUR C8B52RED
4. 20 AMP ORANGE ISOLATED GROUND DUPLEX RECEPTACLE - PASS AND SEYMOUR I53362
5. 20 AMP WHITE SELF TESTING GFI DUPLEX RECEPTACLE - PASS AND SEYMOUR 2055W
6. 20 AMP BLACK DUPLEX RECEPTACLE - PASS AND SEYMOUR S3028K
7. 20 AMP GRAY SELF TESTING GFI DEORA DUPLEX RECEPTACLE - HUBBELL GFI02D0Y
8. 20 AMP GRAY DUPLEX RECEPTACLE - PASS AND SEYMOUR S3028Y
D. SWITCHES
1. 20 AMP WHITE SPST SWITCH - PASS AND SEYMOUR P520A1W
2. 20 AMP WHITE 3-WAY SWITCH - PASS AND SEYMOUR P520A1C
3. 20 AMP WHITE 4-WAY SWITCH - PASS AND SEYMOUR P520A4C
4. DOUBLE POKE WHITE PASSIVE INFRARED OCCUPANCY SENSOR - HUBBELL AF200W22
E. COVERPLATES
1. 1-GANG STAINLESS STEEL LUXURIED PLATE - HUBBELL SS716
2. 1-GANG WHITE DUPLEX RECEPTACLE THERMOPLASTIC NYLON - PASS AND SEYMOUR TP8-W
3. 1-GANG BLACK DUPLEX RECEPTACLE THERMOPLASTIC NYLON - PASS AND SEYMOUR TP8-BW
4. 2-GANG WHITE DUPLEX RECEPTACLE THERMOPLASTIC NYLON - PASS AND SEYMOUR TP82-W
5. 2-GANG BLACK DUPLEX RECEPTACLE NYLON - HUBBELL NP82K
6. 1-GANG WHITE TOGGLE SWITCH THERMOPLASTIC NYLON - PASS AND SEYMOUR TP1-W
7. 1-GANG GRAY DUPLEX RECEPTACLE THERMOPLASTIC NYLON - PASS AND SEYMOUR TP8-DY
8. 2-GANG GRAY DUPLEX RECEPTACLE THERMOPLASTIC NYLON - PASS AND SEYMOUR TP82-DY
F. LIGHTING CONTROL DEVICES
1. CEILING POWER BASE ADAPTOR - LEVITON 0611-020
2. SUPER DUTY LOW VOLTAGE POWER PACK - LEVITON 0PP20-0D1
3. CEILING MOUNT LOW VOLTAGE WHITE OCCUPANCY SENSOR - LEVITON OSC10-MW
4. 1-ZONE GRAPHIC DIMMER - LITRON 0TJ-250M-SC
5. 120 VOLT PHASE ADAPTER POWER MODULE INTERFACE MODULE - LITRON PHM-PA-120-WH
G. MISCELLANEOUS DEVICES
1. MAGNETIC SENSOR SWITCH (SLIDING DOOR) - C&K COMPONENTS MFS456W
2. SOLENOID VALVE (DEMONSTRATION SWM) - DANFOSS EV3-15-NC-24
3. 120V-24V STEP-DOWN TRANSFORMER - TACO 566

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REVISIONS:
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