

GENERAL SPECIFICATIONS

INTRODUCTION
THE CONTRACTING FOR INSTALLATION OF THE ELECTRICAL SYSTEM WILL BE ACCOMPLISHED IN THE FIELD AT THE DIVISION LEVEL...
DEFINITIONS
THE FOLLOWING DEFINITIONS APPLY TO THIS PROJECT.
FURNISH - TO SUPPLY THE MATERIAL NECESSARY TO PERFORM THE TASK...

WIRING METHODS

PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. WIRE AND CABLE.
2. CONDUIT.
3. OUTLET BOXES AND CONDUIT FITTINGS.
4. WIRING DEVICES.
1.2 REFERENCES
A. THE PUBLICATIONS LISTED BELOW FORM A PART OF THIS SPECIFICATION TO THE EXTENT REFERENCED...
PART 2 - PRODUCTS
2.1 WIRE AND CABLE
A. ELECTRICAL COMPONENTS AND DEVICES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100...

PANELBOARDS

PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. LIGHTING/APPLIANCE PANELBOARDS.
B. RELATED REQUIREMENTS:
1. SECTION 16050 - BASIC ELECTRICAL MATERIALS AND METHODS, GROUNDING.
1.2 REFERENCES
A. NATIONAL ELECTRICAL CODE (NEC) (NFPA-70), AND INTERIM AMENDMENTS IN EFFECT.
1.3 QUALITY ASSURANCE
A. COMPLY WITH NATIONAL ELECTRICAL CODE.
B. COMPLY WITH LOCAL AND STATE UTILITY REGULATIONS AND LAWS.
1.4 SYSTEM DESCRIPTION
A. ELECTRICAL SYSTEM VOLTAGES: THE FOLLOWING VOLTAGES SHALL APPLY UNLESS OTHERWISE NOTED...

SAFETY SWITCHES

PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. SAFETY DISCONNECT SWITCHES.
1.2 REFERENCES
A. THE PUBLICATIONS LISTED BELOW FORM A PART OF THIS SPECIFICATION TO THE EXTENT REFERENCED...
PART 2 - PRODUCTS
2.1 SAFETY SWITCHES
A. SWITCH INTERIOR:
1. DEAD-FRONT CONSTRUCTION WITH HINGED ARC SUPPRESSOR AND SWITCH BLADES WHICH ARE FULLY VISIBLE IN THE OFF POSITION AND WITH OR OPEN.
B. SWITCH MECHANISM:
1. QUICK-MAKE AND QUICK-BREAK OPERATING HANDLE AND MECHANISM WITH A DUAL COVER INTERLOCK TO PREVENT UNAUTHORIZED OPENING OF THE SWITCH DOOR...
PART 3 - EXECUTION
3.1 INSTALLATION
A. INSTALL MOTOR AND CIRCUIT DISCONNECT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS...

GENERAL NOTES

1. PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS:
A. FIRE RATED WALLS: SEAL WITH SEALANT HAVING A T-RATING TO MATCH OR EXCEED WALL RATING.
B. EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL EXTERIOR MOUNTED DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY PENETRATIONS.
2. PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZE PER NEC) IN PVC TYPE CONDUIT, POWER CIRCUITS, ISOLATED GROUND CIRCUITS, OR AS SHOWN ON PLANS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.
3. WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY:
A. SWITCHES +48"
B. RECEPTACLES +20"
C. VOICE/DATA +20"

SYMBOL LEGEND

Table with columns for SYMBOL and DESCRIPTION. Includes symbols for wall mounted ceiling mounted, emergency fixture, switch, receptacle, conduit sleeve, etc.

MATERIALS AND METHODS

PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. ELECTRICAL IDENTIFICATION
2. HANGERS AND SUPPORTS
3. CONDUIT SLEEVES
4. GROUNDING AND BONDING
1.2 ELECTRICAL IDENTIFICATION
A. NAMEPLATES: PROVIDE LAMINATED PLASTIC NAMEPLATES WITH 3/4 INCH MINIMUM CONTRASTING COLOR ENGRAVED LETTERS.
1.3 HANGERS AND SUPPORTS
A. CONDUIT AND EQUIPMENT SUPPORTS: HANGERS SHALL BE SERIES P3000 OR P3300 CHANNELS BY UNISTRUT DEPENDING ON LOAD AND SPAN INVOLVED. USE PIPE HANGERS BY MINERALLAC, OR CADDY CLIPS BY ERICO ONLY WHERE IMPRACTICAL TO INSTALL UNISTRUT HANGERS.
PART 2 - EXECUTION
2.1 INSTALLATION
A. INSTALL SPECIFIED MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.
B. CUTTING AND PATCHING: WHERE CUTTING IS REQUIRED THROUGH WALLS, FLOORS, OR CEILINGS, MAKE OPENINGS NO LARGER THAN REQUIRED AND REPAIR AFFECTED SURFACES TO MATCH ADJACENT SURFACES.
C. ELECTRICAL EQUIPMENT SUPPORTS: SUPPORT ELECTRICAL EQUIPMENT WITH HANGERS AND SUPPORTS SPECIFIED ABOVE OR IN ANOTHER APPROVED MANNER WHERE DETAILS ARE NOT INDICATED.
D. SLEEVES: INSTALL WHERE CONDUITS PASS THROUGH CONCRETE FLOORS, CAULK SLEEVES THROUGH OUTSIDE WALLS ABOVE GRADE WITH SEALANT.
E. FASTENING AND ANCHORING: FASTEN CONDUIT STRAPS, DISCONNECT SWITCHES, PANELBOARDS, AND OTHER EQUIPMENT SECURED TO WALLS AND SLABS WITH CADMIUM PLATED SCREWS OR BOLTS AND LEAD CINCH ANCHORS OR EXPANSION BOLTS AND INSTALL IN HOLES DRILLED WITH PROPER SIZE MASONRY DRILL. PROPERLY SIZE ANCHORS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR LOAD TO BE SUPPORTED.
F. TORQUE ALL CONDUCTOR CONNECTION TO MANUFACTURER'S RECOMMENDED VALUES. INSPECT PANELBOARDS FOR PHYSICAL DAMAGE PRIOR TO MOUNTING. SUPPORT ELECTRICAL EQUIPMENT WITH HANGERS AND SUPPORTS SPECIFIED ABOVE OR IN ANOTHER APPROVED MANNER WHERE DETAILS ARE NOT INDICATED.
2.2 GROUNDING
A. GENERAL: GROUND ALL METALLIC CONDUITS, SUPPORTS, CABINETS, EQUIPMENT, SYSTEM NEUTRALS, METAL BUILDING STRUCTURES, AND OTHER ITEMS REQUIRED TO BE GROUNDING IN ACCORDANCE WITH THE NEC AND OTHER APPLICABLE CODES AND AS INDICATED ON DRAWINGS.
B. EQUIPMENT GROUNDING:
1. MAKE CONDUITS ELECTRICALLY CONTINUOUS USING PROPER FITTINGS, CONNECTIONS, GROUNDING BUSHINGS, ETC.
2. WHERE GALVANIZED RIGID METAL CONDUIT (GRC) PENETRATES THE GRADE OUTDOORS OR PENETRATES THE SLAB, INSTALL INSULATING GROUNDING BUSHINGS.
3. INSTALL AN INSULATED EQUIPMENT GROUND WIRE AS SHOWN ON DRAWINGS.
C. METAL UNDERGROUND COLD WATER PIPE: CONNECT TO ELECTRICAL SYSTEM IF AVAILABLE AND PERMITTED BY LOCAL CODES. INSTALL JUMPERS AROUND WATER METERS, VALVES, OR OTHER DEVICES WHICH MIGHT CAUSE AN INTERRUPTION OF CONTINUITY DURING SERVICE.
D. CONCRETE ENCASED ELECTRODES: WHERE INDICATED ON THE DRAWINGS, FURNISH AND INSTALL ELECTRODES, JUMPERS, AND APPROVED FITTINGS IN ACCORDANCE WITH GROUNDING ELECTRODE DETAIL.
E. GROUND RODS: IF GROUND RODS ARE REQUIRED, INSTALL TWO #6 INCH MINIMUM DIAMETER COPPER-WELDED RODS DRIVEN VERTICALLY NOT LESS THAN 12 FEET APART AND EACH WITH 8 FEET OF LENGTH IN CONTACT WITH THE SOIL.

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ELECTRICAL SPECIFICATIONS & GENERAL NOTES

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