

1.01 WORK INCLUDED

- A. All labor, tools and materials necessary to install, test and place in operation complete and operable electrical systems, as shown on the plans and described herein.
- B. Secure all permits and pay all fees necessary for the prosecution and completion of this work.

1.02 DRAWINGS

The electrical layouts are generally diagrammatic. The location of outlets and equipment are approximate unless dimensioned. The exact locations and routing of conduits shall be governed by structural conditions and physical interferences and by the location of electrical terminations of equipment.

1.03 QUALITY ASSURANCE

- A. All work shall be in full accord with the latest edition of the National Electrical Code, all local, state, and federal codes, and with the requirements of the serving utility companies.
- B. All electrical materials used on this project shall be best possible grade of their kinds, new, free from defects and, unless otherwise specifically noted, shall conform to applicable standards of National Electrical Manufacturers Association, The American National Standards Institute and Underwriters Laboratories, Inc. Each article of a kind shall be the standard product of a single manufacturer.
- C. Specific brand names and catalog numbers are used to describe materials in order to establish standards of performance and quality. The decision of the Architect shall govern as to what materials may be substituted, but the burden of proof as to the equality of any proposed substitution shall be upon the Contractor.

1.04 SUBMITTALS

Submit to the Architect a complete list of materials and equipment stating manufacturer's names, catalog numbers, etc. No materials shall be installed until final approval is given.

1.05 WARRANTY

Guarantee all work for one year from date of acceptance against all defects in material, equipment and workmanship.

PART 2 - PRODUCTS

2.01 RACEWAY

- A. Steel conduit or intermediate metal in damp locations or where exposed to mechanical injury, or electrical metallic tubing in dry locations if protected against mechanical injury, throughout the job except where shown otherwise on plans. All conduit shall be run concealed in finished areas.
- B. Rigid Conduit or Intermediate Metal Conduit together with couplings, locknuts, bushings, and fittings: Galvanized steel or aluminum. Aluminum in dry locations only.
- C. Electrical Metallic Tubing: Galvanized with watertight compression type fittings or an approved setscrew type.
- D. Flexible Steel Conduit: "Sealtight" with Appelton type ST fittings. Bare steel flexible conduit permitted for connection to lighting fixtures only.

2.02 WIRE AND CABLE

- A. Plainly marked with U.L. label, gauge, voltage and kind of insulation.
- B. General Wiring: 600V type "TW" or "THHN" Copper, minimum size #12AWG.
- C. Feeders: 600V type "THW" Aluminum, or as shown on plans.

2.03 DEVICES

- A. Wall switches: "AC" rated, heavy duty, quiet type, rated 20 amperes at 120 volts A.C. Special switches as noted.
- B. Convenience outlets: Rated 15 amperes at 120 volts A.C., 3 wire groundable type, Leviton #5262 duplex or #5261 single. Special outlets shall be as noted on plans.
- C. Plates: Supply for all outlet or junction boxes, flush or surface. Two or more gangs in box shall have gang plates. Color of box covers to be selected by Architect.

2.04 STARTERS & DISCONNECTS:

Consult mechanical drawings and specifications for starters. Provide starters where not supplied with mechanical equipment. Square D, combination starter with fusible disconnect.

PART 3 - EXECUTION

3.01 RACEWAY INSTALLATION

- A. Rigid or intermediate metal conduit shall have threads filled with conductive sealant before screwing into fittings.
- B. Entire electrical raceway system shall form a continuous metallic electrical conductor from service point to every outlet, and shall be grounded by connection to main service ground conductor.
- C. Install conduit runs exposed to view parallel or at right angles to structural members, walls or building lines.
- D. Close open ends of conduit with factory made conduit seals during construction. Examine inside of each piece of conduit just before installation and remove any dirt or foreign objects.
- E. Support conduit with one-hole malleable factory made pipe straps, fastened with screws; nails shall not be used.

3.02 WIRE INSTALLATION

- A. Make joints, splices, taps and connections of conductors with solderless connectors.
- B. Provide grounding in accordance with applicable codes and regulations.
- C. Connect all air conditioning motors to conduit systems with sections of flexible conduit to facilitate removal of motor. Use approved fittings only.

3.03 LIGHTING FIXTURE INSTALLATION

- A. Install fixtures complete with all necessary connectors and brackets. Remove all labels except U.L. label from exposed parts of fixtures. Clean fixtures upon project completion.
- B. Where structural members or mechanical equipment prevent installation of fixtures as shown, resulting layout shall be symmetrical within ceiling space and approved by the architect.
- C. Install lamps of proper type.

3.04 TESTS

Test all systems upon completion of the work to demonstrate that equipment furnished and installed as connected functions electrically in the manner required.

MOGAVERO
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PROJECT

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REVISIONS

DRAWING

SPECIFICATIONS

DRAWN BY

ace

PROJECT NUMBER

8326

DATE

6-15-84

SHEET NUMBER

SP 3
OF 12