

SECTION 27 51 16
PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEMS

PART 1 - GENERAL

1.1 SECTION SUMMARY

- A. The electrical contractor shall provide junction box at each device location with a 3/4 inch empty conduit routed up into the ceiling space with bush conduit end and pull strings.
- B. The public address contractor shall pull wire from each public address location to existing PA terminal board, refer to floor plan for locations of devices. The PA contractor shall be responsible for programming of existing system to accommodate additional devices.
- C. The public address contractor shall provide fully engineered shop drawings of proposed work, the shop drawings shall be performed by licensed RCDD.
- D. The electrical contractor shall include in bid number all associated work with the public address and mass notification system.

1.2 RELATED SECTIONS

- A. 01 33 23 - SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.
- B. 07 84 00 - FIRESTOPPING.
- C. 26 05 21 - LOW - VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (600 VOLTS AND BELOW).
- D. 27 05 11 - REQUIREMENTS FOR COMMUNICATIONS INSTALLATIONS.
- E. 27 05 33 - RACEWAYS AND BOXES FOR COMMUNICATIONS SYSTEMS.
- F. 27 10 00 - STRUCTURED COMMUNICATIONS CABLING EQUIPMENT AND SYSTEMS.

1.3 DEFINITIONS

- A. Provide: Design, engineer, furnish, install, connect complete, test, certify and guarantee.
- B. Work: Materials furnished and completely installed.
- C. Review of contract drawings: A service by the engineer to reduce the possibility of materials being ordered which do not comply with contract documents. The engineer's review shall not relieve the Contractor of responsibility for dimensions or compliance with the contract documents. The reviewer's failure to detect an error does not constitute permission for the Contractor to proceed in error.
- D. Headquarters Technical Review, for National and VA communications and security, codes, frequency licensing, standards, guidelines compliance:
 - Office of Telecommunications
 - Special Communications Team (0050P2B)
 - 1335 East West Highway - 3rd Floor
 - Silver Spring, Maryland 20910

(O) 301-734-0350, (F) 301-734-0360

E. Engineer: Paradigm Engineers and Constructors

200 Envoy Circle

Suite 201

Louisville KY 40299

(O) 502-339-8511

F. Owner: Lebanon VA Medical Center, Lebanon, PA

G. Contractor: you; successful bidder

1.4 PROJECT RECORD DOCUMENTS (AS BUILTS)

A. Throughout progress of the Work, maintain an accurate record of changes in Contract Documents. Upon completion of Work, transfer recorded changes to a set of Project Record Documents.

1.5 CLEAN UP

A. Prior to final inspection and acceptance of the work, remove all debris, rubbish, waste material, tools, construction equipment, machinery and surplus materials from the project site and thoroughly clean your work area.

PART 2 - NOT USED

PART 3 - EXECUTION

3.1 PROJECT MANAGEMENT

- A. Assign a single project manager to this project who will serve as the point of contact for the Owner and the Engineer.
- B. The on site Public Address Contractor shall be proactive in scheduling work at the hospital, specifically the Contractor will initiate and maintain discussion with the COR regarding the schedule for ceiling cover up and install cables to meet that schedule.

3.2 COORDINATION WITH OTHER TRADES

- A. Coordinate with the electrical contractor location of the PA system and volume controls faceplate and the faceplate opening for the PA system back boxes.

3.3 CUTTING, CLEANING AND PATCHING

- A. It shall be the responsibility of the contractor to keep their work area clear of debris and clean area daily at completion of work.
- B. It shall be the responsibility of the contractor to patch and paint any wall or surface that has been disturbed by the execution of this work.
- C. The Contractor shall be responsible for providing any additional cutting, drilling, fitting or patching required that is not indicated as provided by others to complete the Work or to make its parts fit together properly.

- D. The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or separate contractors by cutting, patching or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter such construction by the Owner or a separate contractor except with written consent of the Owner and of such separate contractor; such consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold from the Owner or a separate Contractor the Contractor's consent to cutting or otherwise altering the Work.
- E. Where coring of existing (previously installed) concrete is specified or required, including coring indicated under unit prices, the location of such coring shall be clearly identified in the field and the location shall be approved by the COR prior to commencement of coring work.

3.4 FIREPROOFING

- A. Where PA wires, cables and conduit penetrate fire rated walls, floors and ceilings, fireproof the opening.
- B. Provide conduit sleeves for cables that penetrate fire rated walls, floors, and ceilings. After the cabling installation is complete, install fire proofing material in and around all conduit sleeves and openings. Install fire proofing material thoroughly and neatly. Seal all floor and ceiling penetrations.
- C. Use only materials and methods that preserve the integrity of the fire stopping system and its rating.
- D. Install fireproofing where low voltage cables are installed in the same manholes with high voltage cables; also cover the low voltage cables with arc proof and fireproof tape.
- E. Use approved fireproofing tape of the same type as used for the high voltage cables, and apply the tape in a single layer, one-half lapped or as recommended by the manufacturer. Install the tape with the coated side towards the cable and extend it not less than 25 mm (one inch) into each duct.
- F. Secure the tape in place by a random wrap of glass cloth tape.

- - - E N D - - -