

# 275116-TC PA AND EMERGENCY TENANT PAGING

## PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including Maryland Department of Transportation/Maryland Aviation Administration Standard Provisions for Construction Contracts Volume 1, December 1993; Interim Standard Provisions Addendum (ISPA) dated February 2004; Errata for ISPA; and other Division 1 Specifications Sections, apply to this Section.

### 1.2 SUMMARY

- A. This section includes general requirements for modifications to the existing Public Address (PA) system and to the Emergency Tenant Paging System.

### 1.3 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Reflected ceiling plans showing proposed and existing speaker locations
- C. Shop Drawings:
  - 1. Dimensioned plans and sections or elevation layouts.
  - 2. Wiring Diagrams: Power, signal, and control wiring specific to this Project. Identify terminals and wiring designations and color codes to facilitate installation, operation, and maintenance. Indicate recommended types, wire sizes, and circuiting arrangements for field-installed wiring, and show circuit protection features.
  - 3. Speaker locations, placement of ambient microphones and zone boundaries must be approved by OT Engineer.
  - 4. General design guidance for speaker placement is every 12 feet.
  - 5. The OT Engineer shall assign Paging Access Point (PAP) for terminus of all facilities.

#### 1.4 QUALITY ASSURANCE

- A. All equipment and installation methods shall be in accordance with recommendations from Washington Professional Systems (WPS), who is the current sole source PA system provider. The local WPS contact is Dave Leister at 301-370-4746. [davel@wpsworld.com](mailto:davel@wpsworld.com). The Contractor is responsible for contacting this organization and including all associated cost in the bid price.
- B. A copy of all correspondence, task orders, work orders with WPS shall be also provided to the OT Engineer.
- C. OT Engineer shall approve all work prior to work being performed.
- D. Additional system design shall be performed by WPS.

#### 1.5 PROJECT CONDITIONS

- A. Interruption of Existing Service: Do not interrupt PA system service to facilities occupied by Owner or others unless permitted under the following conditions:
  - 1. Notify the OT Engineer no fewer than two weeks in advance of proposed interruption of PA system service.
  - 2. Do not proceed with interruption of PA system service without written permission.

- B. Emergency Evacuation Paging must remain operational at all times.

If service disruption is required notify the Fire Marshal and the OT Engineer. Approval must be in writing.

#### 1.6 COORDINATION

- A. Coordinate all PA system work with the OT Engineer and WPS.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. The existing Public Address System is manufactured by Innovated Electronics Designs, Inc.; therefore, all PA system equipment shall be exclusively by Innovated Electronics Design, Inc., only, unless noted otherwise. There will be "No Exceptions Allowed". All other substituted products shall be submitted and approved by the OT Engineer with input from WPS.

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## 2.2 EQUIPMENT

- A. All equipment shall be in accordance with recommendations from WPS. Refer to the Drawings for equipment supplier and installation requirements.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

#### A. Conductors

1. Wire and cabling shall be as recommended by WPS and all wire and cabling shall be installed in an enclosed conduit or raceway system.
2. Microphone cabling shall be WP 452 or Beldon 8451 cable shall be used for all microphone cabling
3. Microphone and speaker wire shall not be run in the same conduit
4. Microphone cabling shall not be spliced
5. After installation and before termination, all wiring and cabling shall be checked and tested to insure there are no grounds, opens or shorts on any conductors or shields.
6. Visually inspect wire for faulty insulation prior to installation. Protect cable ends at all times with acceptable end caps except during termination.
7. Connection of new work to existing work or equipment must be performed by WPS.
8. During construction if existing work must be removed/disconnected this work shall be performed by WPS
9. Installation of conductors shall comply with any of the methods listed in NFPA 72 Chapters 6.9.10.4.1, 4.2 and 4.3 for survivability. Coordination with WPS is essential to insure conductor compatibility with system components.

#### B. Field Quality Control

1. Coordinate all final terminations to PA system equipment with WPS.

2. Perform all tests on new conductors prior to contacting WPS.
3. Coordinate all final equipment and system testing and demonstration with WPS, OT Engineer and the Fire Marshal.
4. All connection points to the PA system shall be at existing Paging Access Points (PAP). If insufficient facilities exist, the current facilities shall be expanded to accommodate new work or the creation of a new PAP shall be created at the sole discretion of the OT Engineer.

### 3.2 START UP SERVICE

- A. Engage WPS to perform all equipment startup and system programming. Contractor shall coordinate and be on-site for all startup functions.

### 3.3 DEMONSTRATION

- A. Engage WPS to demonstrate proper operation of all PA system equipment.

END OF SECTION 275116