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AMENDMENT NO.2  
June 19, 2014  
DTE Project #02213006

PROJECT: St. Cloud VA Health Care System  
Replace Fire Alarm System Devices

This Amendment shall be added to and become a part of the original plans and specifications. All items shall be as originally specified or drawn, unless specifically amended by this or subsequent Amendments. Receipt of this Amendment must be acknowledged on bid form.

PROJECT MANUAL CLARIFICATIONS:

1. In Specification Section 28 31 00, 1.1.C the spec reads as follows: "Building 1 & 1A, 28, 48, 49, 50, & 51 shall be arranged with a "defend in place" notification sequence as indicated on the associated Fire Alarm Riser Drawing Emergency Signaling Matrix shown on the Fire Alarm Riser Drawings". Nowhere else in the spec any reference to "defend in place" evacuation. Does this statement then require that the wiring for the referenced buildings be installed per NFPA "Defend in Place" requirements?

\* Clarification 28 31 00, 1.1.C: The physical zoning of notification appliance circuits is indicated on the Fire Alarm Riser Drawing for each building. The defend-in-place notification sequence for the buildings listed is shown on the Fire Alarm Panel Emergency Signaling Matrix for those buildings required to employ defend-in-place notification. The VA authority considers wiring installed in metal raceway within buildings that are protected throughout by sprinklers to meet the Pathway Survivability Level 2 of NFPA 72 (Reference: VA Fire Protection Design Manual, Section 7.2.E). 2-hour rated raceway systems are not required for any buildings, including the buildings listed for partial evacuation defend-in-place notification sequencing.

2. In Specification Section 28 31 00, 2.3.J the spec reads as follows: "to include the addition of twenty percent (20%) more alarm initiating, alarm notification and door holder circuits" In Section 2.7.F.5 the spec reads as follows: "A minimum of 50% spare output capacity shall be available for each amplifier" Can you clarify if the notification circuits, which include the amplifier outputs, is required to have 20% spare capacity or 50% spare capacity?

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\* Clarification 28 31 00, 2.3.J: The initial speaker loading applied to an individual amplifier shall be 50% of the rated output capacity per 2.7.F.5. Components installed shall allow the capability of adding an additional 20% speaker circuits.

3. Reference Specification Section 28 31 00, 1.2.B: 1st sentence reads as follows: "Existing fire alarm panels shall be modified and field components shall be replaced in accordance with the specifications and drawings." Key words there are accordance with specs and drawings. That directs me to bid exactly what the plans show. 2nd sentence reads as follows: "Device locations shown on the drawings are for reference only unless specifically dimensioned. Actual locations shall be in accordance with NFPA 72 and this specification" This makes it seem like a "design build" project where we would have to make sure that devices are installed appropriately and quantities may need to be changed. In my review of the drawings, I have found many errors in the engineers layout of devices, most obvious is not enough visual strobe coverage in most of the buildings. Another example of this is on the General Drawing Notes: General Note A: "Relocate, replace, remove or provide new fire alarm initiating devices, control devices, and notification appliances as noted in the contract documents." This means exactly as the documents state. General Note F: "These drawings illustrate the general locations of new and existing devices. The contractor shall be responsible for determining the exact locations. New devices shall be located in accordance with the specifications and referenced documents." This one is more grey area.

\*Clarification 28 31 00, 1.2.B: Specification 28 31 00 provides the performance criteria for modifications to fire alarm control equipment. The drawings show the approximate locations (within a foot or two) of existing and new devices and appliances. The number of devices and appliances to be replaced, deleted or added should be a take-off from the drawings. The Contract Document statements noted above indicate the device and appliance locations are not specifically dimensioned on the drawings. The Contractor will be allowed leeway in locating new devices or appliances to account for field conditions encountered.

#### PROJECT MANUAL REVISIONS:

1. Section 28 31 00 – Fire Detection and Alarm: The existing control panels (being installed under a current project) are Edwards Signaling EST3X panels. Revise all references to the fire alarm control panel model EST3 to EST3X.

#### ELECTRICAL DRAWING REVISIONS AND CLARIFICATIONS:

1. Sheet G100 Sheet Index: Make sheet title corrections as follows:
  - a. FA100-5 Building 5 and 6 - Fire Alarm Plan – First Floor (omit Basement)
  - b. FA100-FA101 -14, 54, 57 – Building 14 Fire Alarm Plans Basement & First Floor, 54 First Floor, 57 First floor.
  - c. FA-100-49 Building 49 Fire Alarm Plan – Basement (omit 99 - sub-basement)
2. Sheet FS100: Add the following to key note 6: Cable devices in building 112W/112E to FACP In building 7.

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3. Sheet FS100: Add the following to Key Note 7: The existing wiring between buildings 54 and 14 may be extended and utilized for devices in building 14. Note that the conduit route shown between buildings 14 and building 6 is not the preferred cabling route, but an alternate route if required for any reason but would require protective 'PPE' Permit/gear if used. Field coordinate with the 'COR'.
4. Sheet FS100: Insert the following into Key Note 8: 'stub ¾" conduit into building 51 crawl space. Building crawl space drawings are available as required'.
5. Sheet FS100: Omit Key Note 13 completely. Devices in buildings 94, 10, 11, and 57 are to be connected to Fire Alarm Control Panel in building 10.
6. Sheet FS100: Add the following to Key Note 14: Intercept conduit in the crawl space in building 50 and extend to building 50 FACP. Building crawl space drawings are available as required.
7. Sheet FS100: Revise key note 15 as follows: Intercept conduit stubbed into tunnel from building 99 and extend to building 48 crawl space and route to building 48 FACP. Building crawl space drawings are available as required.
8. Sheet FS100: GENERAL NOTES: Omit the second sentence from general notes completely as follows: "if Tunnel/corridor system does not extend to a particular building, Contractor shall saw cut/trench to nearest building with FACP as approved by the 'VA COR' and per specifications". Note that the raceway paths indicated between buildings is existing and to be used for the required fire alarm cabling for this project unless noted otherwise as to be provided as new conduit.
9. Sheet FS100: Add GENERAL NOTE B as follows: Existing conduits called out below grade between buildings which may contain both fire alarm cable and data cabling will be allowed for use for the new fire alarm cabling in lieu of trenching in new underground conduit in these instances.
10. FA101-1/1A: Note 4 shall be omitted. Control relay # 1853 is located above ceiling at door to room 124 in B1. Control relay 1871 in located in relay panel next to FACP.
11. Sheet FA102-1/1A: Revise key note 6 as follows: The exact location of relay module has not been identified. Contractor shall include 2 hours per device to field locate relay module.
12. Sheet FA102-1/1A: Room C2EC: Omit relay module 1859.
13. Sheet FA101-5,6: Omit Key Note 3 completely. This duct detector called out on the roof was removed during a previous project.
14. Sheet FA101,FA102-7: Existing building 7 FACP shown installed at North wall of room 104 was relocated to be installed at the West wall.
15. Sheet FA100,FA101-8: Revise Key Note 3 as follows: Replace existing control relay 1465 for building 8 door hold open located above autodoor hallway entrance.
16. Sheet FA100,FA101-10: Existing FACP shown installed at East wall of room 1 was relocated to be installed at the West wall of room 12. Delete Replacement of existing smoke detectors 503, 504, and 505. These detectors shall be removed and not replaced. Revise Key Note 3 as follows: Replace existing control relay in room 3 for building 10 door hold open.
17. Sheet FA102,FA103-10: Delete smoke detectors 519, 521,522, and (3) detectors with the 'RES' indication. These detectors shall be removed and not replaced.
18. Sheet entitled FA100-FA101 for Buildings 14, 54, and 57: The sheet title shall read FA100,FA101-14,54,57. Detail reference 1 shall read 1/FA100-14. Detail reference 2 shall read 2/FA101-14. Detail reference 3 shall read 3/FA101-54. Detail reference 4 shall read 4/FA101-57.

19. Sheet FA102-28: Remove the strobes indicated at east wing in 12 patient rooms and bathrooms. These strobes are not required. The stand alone smoke detectors shall remain as is.
20. Building 28 Attic/Penthouse Plan: Revise Drawing no. from FA102-28 to read FA103-28.
21. Sheet FA101-49: Omit replacement of 29 existing smoke detectors indicated with-in patient rooms with the 'ER' designation. The detectors were installed in the corridors which shall be replaced.
22. Sheet FA2029-29: Revise Drawing no. from FA2029-29 to read FA-229-29.
23. Sheet FA100,FA101-59: Room 6: Omit relay module 1471. Omit key note 2 completely.
24. Clarification for Conduit Riser's between floors for all affected buildings: The intent of the terminology "approximate location of fire alarm system conduit riser" is; locations shown for fire alarm system conduit riser's are approximate only if existing building conditions (beams, walls, existing ductwork and/or equipment once uncovered) require minor adjustment for actual riser penetrations. Coordinate installation of conduits with the COR prior to installation.
25. For all Key Notes on the drawings which contain the phrase "...patch and repair wall to match as required as approved by the VA COR", revise this phrase to read "patch and repair to match existing".