

**\*\*\*\*\* NOTE TO DESIGNER: This Section is to be used when construction is required within existing clean environment rooms housing computers and other sensitive equipment. Typically these rooms will contain raised access flooring. Requirements of this Section pertain to work that produces a residue, odor, or contaminant in the air or on surfaces.**

\*\*\*\*\*

**CONSTRUCTION STANDARD SPECIFICATION**  
**SECTION 01735**  
**COMPUTER ROOM WORK REQUIREMENTS**

PART 1 - GENERAL

1.01 Summary .....2  
1.02 Project Conditions.....2  
1.03 Quality Assurance.....2

PART 2 - PRODUCTS

PART 3 - EXECUTION

3.01 Preparation .....3  
3.02 Procedures.....3

**CONSTRUCTION STANDARD SPECIFICATION**

**SECTION 01735**

**COMPUTER ROOM WORK REQUIREMENTS**

**PART 1 - GENERAL**

**1.01 SUMMARY**

**A. Section includes:**

1. Requirements for performing renovation and new construction within existing computer rooms and other clean environments.
2. Work governed by this Section: Produces residue, odor, or contaminant in air or on surfaces.

**1.02 PROJECT CONDITIONS**

- A. Existing computer room will be in use during construction period. Conduct work to minimize interference. Coordinate with user to allow normal operations to be conducted. Exercise care to protect equipment and other components. Coordinate with user requirements for moving or temporarily relocating equipment and other components.**

**1.03 QUALITY ASSURANCE**

- A. Convene pre-installation conference prior to commencing work in computer room.**

- B. Attendance: Sandia Delegated Representative (SDR), SANDIA/NM computer operations personnel, and representatives of Contractor and subcontractors performing work within computer room.**

**C. Review:**

1. Work schedule.
2. Access to computer room.
3. Protection of computer equipment and other components.
4. User occupancy and operations.
5. Utility shut-downs.

6. Alarm system blockouts.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Temporary enclosures: Erect and maintain interior enclosures to isolate renovation from other areas.
- B. Prior to commencing work, protect existing equipment within work area with drop cloths, air barriers, protective panels, and enclosures.
  - 1. Drop cloths: Support from ceiling or other structure 2 feet minimum above computer equipment.
  - 2. Do not allow tools, drop cloths, materials, and construction aids to be placed on or against computer equipment.

3.02 PROCEDURES

- A. Keep work inside computer room to a minimum.
- B. Thoroughly clean the following items prior to bringing into computer room:
  - 1. Tools, equipment, and other construction aids.
  - 2. Materials, parts, and other components to be installed.
  - 3. Pipe and conduit: Remove dirt and scale for inside and outside surfaces.
- C. To extent possible perform cutting, drilling, welding, soldering, sanding, painting, finishing, and other construction operations outside computer room in location approved by SDR.
- D. Cutting: Remove ceiling panels, access floor panels, floor stringers and pedestals, and other components to be cut to location outside computer room designated by SDR.
- E. Work performed within computer room:
  - 1. Continuously operate vacuum cleaner to remove residue when cutting, filing, drilling or other similar work must be performed within computer room. Particles shall be removed by vacuum cleaner during operation producing residue.

2. Welding, soldering, and other fume producing operations that must be performed within computer room: Provide supplemental power ventilation to building exterior. Do not commence fume producing operations until ventilation apparatus is approved by SDR.
- F. At end of workday remove all tools and materials from computer room or place within room at location designated by SDR.
- G. Access flooring: Do not remove more than 5 access floor panels at one time without prior approval of SDR. Ensure that air circulation function of access floor system is not disrupted by removal of access floor panels.
- H. Maintain work areas free of waste material, debris, and rubbish. Immediately remove debris and rubbish from computer room and associated pipe chases, plenums, access floor spaces, and above suspended ceiling.

END OF SECTION