



State of Utah

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Department of Administrative Services

KIMBERLY K. HOOD  
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON  
Director

## ADDENDUM #1

Date: June 26, 2007

To: Contractors

From: Tim Parkinson, Project Manager, DFCM

Reference: Student Services Remodel – Davis ATC Campus  
Utah College of Applied Technology – Kaysville, Utah  
DFCM Project No. 06134220

Subject: **Addendum No. 1**

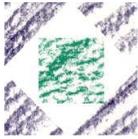
Pages	Addendum	1	page
	<u>Architects Addendum</u>	<u>11</u>	<u>pages</u>
	<b>Total</b>	<b>12</b>	<b>pages</b>

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**Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.**

- 1.1 **SCHEDULE CHANGES** – There are no changes to the Project Schedule.
- 1.2 **GENERAL** – HFS Architects – Specifications.

**End of Addendum #1**



**HFSARCHITECTS**

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**Addendum No. 01**

Project: Student Services Remodel  
Address: Davis Applied Technology College  
City, State: Kaysville, Utah  
Owner: DFCM, State of Utah

Date: 25 June 2007  
Project No.: 0615.02  
Owner No.: 06134220  
Institution: Davis Applied Technology College

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**To all Bidders of Record:**

This addendum forms a part of the contract documents and modifies the original specifications and drawings as noted below. Items of general information are included without reference to the plans and specifications. Revisions to the specifications are referenced by page number and paragraph heading on that page. Revisions to the drawings are reference by the drawing number. Unless otherwise stated, any changes herein offset only the specific drawings, words, or paragraphs mentioned, and the balance of the drawings and specifications remain in full force. Acknowledge receipt of this addendum in the space provided on the Bid form. Failure to do so will subject the Bidder to disqualification.

Item No.	Section or Sheet No.	Description
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**GENERAL ITEMS**

**SPECIFICATION ITEMS**

- 1-1 **Section 08334 OVERHEAD COILING GRILLES**  
Modify section as required to accommodate the following operation. The grille will be tied to an emergency 120V circuit (see separate electrical add-item). The grille control system will require a second set of limit switches and any associated items required to have the grille open when the building fire alarm system goes into alarm. Delete all references to locks. Contractor is responsible for providing whatever their particular brand of grille requires to make this work. See electrical addendum item for what will be provided by electrician Any other work, parts, controls or whatever is the Overhead Coiling Grille contractor’s responsibility.
  
- 1-2 **Section 09681 CARPET TILE** Part 2.1 a. Change product to: Interface “Pathways” 182, IC50 CM, Style: 1672602S00, Color: 5691 Brown.
  
- 1-3 **Section 15300**  
ADD this section to the Specifications. Note, the Contractor shall be responsible to re-install fire sprinkler heads where ceilings are being replaced. Note that in the open office area part of the ceiling is being lowered approximately 6" This will require extending, or replacing the drops in this area as well. The contractor shall also be responsible to relocate and add new as necessary to provide proper coverage for the entire remodeled area. See attached fire sprinkler performance Specification Section 15300.

Item No.	Section or Sheet No.	Description
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**DRAWING ITEMS**

- 1-4 AE101 **Partition Legend**  
 Change the horizontal reinforcing to 2- #4 at 32" O.C. Add note that vertical and horizontal reinforcing is to be drilled and epoxied into the existing floor and walls with 6" minimum embedment. CMU walls are to extend to within 1-1/2" of the metal joists. Provide 2-#4 in a bond beam at the top of the wall and provide two 3"x3"x1/4" angles 4" long at each joist that crosses the wall. Weld to the bottom chord of the joists to provide lateral support for the wall
- 1-5 AE111 **Reflected Ceiling Plan**  
 At the skylight well at approximately grids 6 & E, provide an additional 6" metal stud and gypsum board drop per the attached detail B4/A501, and paint the entire skylight well (protect the existing fabric shade at the top of the light well).
- 1-6 AE602 **Detail A3/AE602**  
 Replace with new detail included with this addendum
- 1-7 E2.11  
 Tie the new overhead coiling grille opener to a 120V 20 Amp Emergency Circuit. Field verify and coordinate with the DATC Facilities Manager for the exact location of the Emergency panel. Also tie the roll up door opener to the fire alarm control panel so that when the fire alarm system is activated, the roll up grille shall open. Coordinate with the grille supplier and provide all necessary hardware for a complete installation.

**ATTACHMENTS**

- 1-8 SECTION 15300
- 1-9 Detail B4/A501
- 1-10 Detail A3/AE602

**SECTION 15300 - FIRE SPRINKLER SYSTEM**

**PART 1 - GENERAL**

This project includes the relocation of the existing sprinklers in the areas being remodeled, and providing new heads as needed for the remodeled space.

**1.1 WORK INCLUDED**

- A. Remodeled areas of existing building shall have the existing fire sprinkler system modified to provide protection as necessary. See Architectural drawings for definition of these areas. Work includes, but is not limited to:
  - 1. Design, drawings, and, if necessary, hydraulic calculations.
  - 2. Materials, equipment, and devices.
    - a. Pipe, fittings, hangers, seismic braces.
    - b. Sprinklers, escutcheons, signs.
    - c. All other materials required for complete installation.
  - 3. Fabrication, installation, and testing.
  - 4. Permits, fees, and documentation.

**1.2 RELATED WORK**

- A. Painting.
- B. Electrical Material and Methods.

**1.3 WORK NOT INCLUDED**

- A. Fire extinguishers and cabinets.
- B. Painting.
- C. Wiring of electrical and alarm devices.

**1.4 SYSTEM DESCRIPTION**

- A. Interior - Remodeled Areas: Relocate and/or add heads as required to the existing system in order to provide coverage in the areas included in this project.
  - 1. Relocate sprinklers as required within the parameters set forth in NFPA 13. Pipe sizing shall match the existing piping.
    - a. An existing 1" outlet may be utilized to supply (1) sprinklers maximum.

- b. Mechanical tees may be utilized to run additional lines, as necessary.
  - 1) A flexible grooved coupling shall be installed on the new branch within 1 ft of the mechanical tee.
- c. Hangers and bracing shall be installed as required by NFPA 13 on new systems.

#### 1.5 QUALITY ASSURANCE

- A. Materials, devices, and equipment shall be Underwriters Laboratories listed or Factory Mutual approved for use in fire protection systems.
- B. Designer shall be a State of Utah Registered Fire Protection Engineer or a NICET Certified Engineering Technician (Level III or Level IV).
- C. Submittals and Shop Drawings shall be stamped by licensed designer.
- D. Installer shall be a licensed contractor regularly engaged in the installation of fire sprinkler systems in commercial type buildings.

#### 1.6 REFERENCES

- A. NFPA (National Fire Protection Association) 13, "Installation of Sprinkler Systems," 2002.
- B. NFPA 24, "Standard for the Installation of Private Fire Service Mains and Their Appurtenances," 2002.
- C. IBC (International Building Code), 2003.
- D. IFC (International Fire Code), 2003.
- E. Underwriters Laboratories "Fire Protection Equipment Directory," latest edition.
- F. Factory Mutual Systems "Approval Guide," latest edition.

#### 1.7 SYSTEM DESIGN

- A. System shall be wet pipe.
- B. Design density and area of application.
  - 1. Mechanical, Electrical, and Janitorial: Ordinary Hazard Group 1, 0.15 GPM/SQ FT over 1,500 SQ FT.
  - 2. Storage: Ordinary Hazard Group 2, 0.20 GPM/SQ FT over 1,500 SQ FT.
  - 3. All other areas: Light Hazard, 0.10 GPM/SQ FT over 1,500 SQ FT.
  - 4. Adjustments shall be made in the remote area for sloped ceilings and/or roof decks and for the use of quick response sprinkler heads throughout.

- C. Maximum coverage per sprinkler head:
  - 1. Ordinary Hazard areas: 130 SQ FT.
  - 2. Light Hazard areas: 225 SQ FT.
  - 3. Extended coverage sprinklers shall be allowed when installed conforming to the individual listing of the sprinkler head.
- D. Vestibules: Provide dry barrel sprinklers to protect areas subject to temperatures less than 40 F.
- E. The design area shall be the hydraulically most remote rectangular area having a dimension parallel to the branch line equal to, or greater than, 1.2 times the square root of the area of sprinkler operation.
- F. Maximum velocity of water flow within piping: 20 FPS.
- G. Flow available:
  - 1. Contractor shall perform all necessary flow tests and calculations.
  - 2. The contractor shall design the sprinkler system to the water supply indicated in the Engineer's Water Supply Analysis performed for the project, including all recommendations contained within the Analysis.
- H. Provide head guards on any sprinklers installed below 7 ft. above the floor and in areas where the heads are subject to physical damage.
- I. Sprinkler heads in areas with folding partitions, curtains, dividers, etc shall be located such that the spacing and clearance shall be maintained whether the partitions are open or closed.

## 1.8 SUBMITTAL

- A. All shop drawings and calculations shall bear the Nicet number and signature of the responsible Nicet Certified Technician or the stamp and signature of the responsible Registered Professional Engineer. Submittals without the proper signature will be returned without review.
- B. Submit to local and state Authorities Having Jurisdiction and obtain AHJ's approval, three copies each:
  - 1. Shop drawings.
  - 2. Hydraulic calculations.
  - 3. Copy of contract specification.
  - 4. Equipment catalog sheets for all major equipment.
- C. Submit to the Utah State Fire Marshal, three copies each:
  - 1. Shop drawings.
  - 2. Hydraulic calculations.
  - 3. Copy of contract specification.

4. Equipment catalog sheets for all major equipment.
  5. One copy of the Water Supply Analysis with date, time and temperature noted.
- D. Submit to Architect for review and Architect's acceptance prior to fabrication and installation, five copies each:
1. Shop drawings.
  2. Hydraulic calculations.
  3. Equipment catalog sheets for all major equipment.
  4. One copy of the water flow test with date, time and temperature noted.
- E. Upon completion of installation submit to Architect two copies each:
1. NFPA 13, "Contractor's Material & Test Certificate for Aboveground Piping."
  2. NFPA 13, "Contractor's Material & Test Certificate for Underground Piping."
  3. As-built shop drawings with designer's signature and certification number.

## 1.9 WARRANTY

- A. Materials, equipment, and workmanship shall be free from defects for 12 months from the "Date Left in Service with All Control Valves Open," shown on "Contractor's Material and Test Certificate." If any Work is found to be defective, Contractor shall promptly, without cost to Owner, and in accordance with Owner's instructions, either correct such defective Work, or if Owner has rejected it, remove it from the site and replace it with non-defective work. Submit two copies of Warranty Certificates to Architect.

## PART 2 - PRODUCTS

### 2.1 ACCEPTABLE MANUFACTURERS

- A. Sprinkler equipment, heads and devices:
1. Central, Grinnell, Reliable, Star, Victaulic and Viking.
- B. Backflow preventer:
1. Ames, Watts

### 2.2 PIPE AND TUBE

- A. Interior:
1. Ferrous piping, ASTM A795, ANSI/ASTM A53, ASTM A135, ANSI B36-10M, UL CRR (Corrosion Resistance Ratio) minimum 1.0, and copper tube, ASTM B251, Type L or M.

### 2.3 FITTINGS

#### A. Interior.

1. Cast iron threaded, ANSI B16.4.
2. Cast iron flanged, ANSI B16.1.
3. Malleable iron threaded, ANSI B16.3.
4. Forged steel fittings, socket welded and threaded, ANSI B16.11.
5. Copper, ANSI B16.22, B16.18. Joints for connection of copper tube shall be brazed or soldered.
6. Other types of fittings may be used, but only those investigated and listed for fire sprinkler service.
7. Plain end couplings, saddle couplings, and clamp type couplings are not acceptable.

### 2.4 HANGERS

- A. Hangers shall conform to the minimum requirement of NFPA 13. A detail of each type of hanger shall be shown on the shop drawings and calculations for trapeze type hangers shall be provided with the hydraulic calculations.

### 2.5 SEISMIC FITTINGS AND BRACES

- A. Seismic bracing shall be installed per the requirements of NFPA 13. Calculations for the seismic bracing shall be provided including all piping within the "area of influence" as described in NFPA 13.
- B. Flexible connections shall be provided at the top and bottom of the system riser and at other locations as described in NFPA 13.

### 2.6 SPRINKLER HEADS

- A. Areas without ceilings: standard upright or pendent, quick response, factory bronze, ordinary temperature.
- B. Areas subject to freezing: dry pendent or sidewall, chrome finish, intermediate temperature, with recessed chrome canopy.
- C. Sprinklers of intermediate and high temperature ratings in specific locations as required by NFPA 13.
- D. Spare heads in representative proportion to types installed and one head wrench for each type sprinkler.
1. Total quantity of spare heads shall be per the requirements of NFPA 13.
  2. Spare heads to be contained in a wall mounted cabinet mounted adjacent to the riser.

## 2.7 VALVES

- A. Drain valves as required by the design and as indicated in NFPA 13.
- B. OS&Y Gate Valve with supervisory switch.
- C. Butterfly Valve with integral supervisory switch.
- D. Four inch swing check valve for FDC.
- E. One half-inch ball drip for FDC.

## 2.8 ALARM DEVICES

- A. Vane Type Water Flow Switch with retard (DPDT).
- B. Valve supervisory switch (SPDT).
- C. 10" Weatherproof Electric Bell.

## PART 3 - EXECUTION

### 3.1 INSPECTION

- A. Inspect job site prior to fabricating materials. Coordinate and sequence installation with the progress of other mechanical and structural systems and components.

### 3.2 INSTALLATION

- A. Install systems in compliance with methods detailed in NFPA 13 and NFPA 24, including seismic requirements for Area 1, maximum potential for earthquake damage.
- B. Sprinkler heads shall be centered in 2' x 2' ceiling tiles and shall be centered in the 2' dimension and at the quarter, half, or three-quarter point in 2' x 4' ceiling tiles.
- C. Where pipes pass through fire rated walls, partitions, ceilings and floors, maintain the fire-rated integrity with listed sealers and materials.
- D. Provide chrome-plated escutcheons where exposed pipe passes through walls, ceilings, or other building components.

### 3.3 FIELD QUALITY CONTROL

- A. Obtain permits and post bonds as required by state and local AHJ's (Authorities Having Jurisdiction).
- B. Inform AHJ's of job progress. Request presence of AHJ's, perform tests and document results using Contractor's Material and Test Certificates.
  - 1. Existing piping may be "blanked-off" when testing new piping. This contract does not require the testing of work installed by others.

### 3.4 DISINFECTION

- A. Introduce dosage of 50-ppm chlorine in underground and overhead piping. During the contact period open and close all system valves several times. At end of 24-hour retention period at least 10 ppm shall remain throughout the piping.
- B. At end of retention period, flush system until residual chlorine is reduced to less than 1.0 ppm.

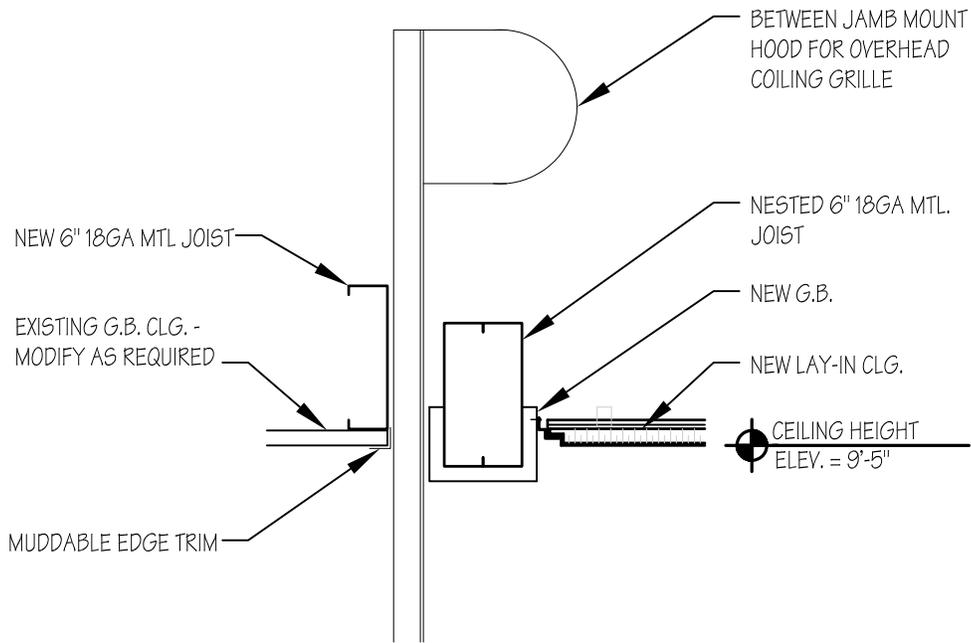
### 3.5 CLEANING

- A. Remove oil, scale, debris, and foreign substances from interior and exterior of devices, equipment, and materials prior to installation.
- B. Upon job completion, remove tools, surplus materials and equipment. Leave all areas broom clean.

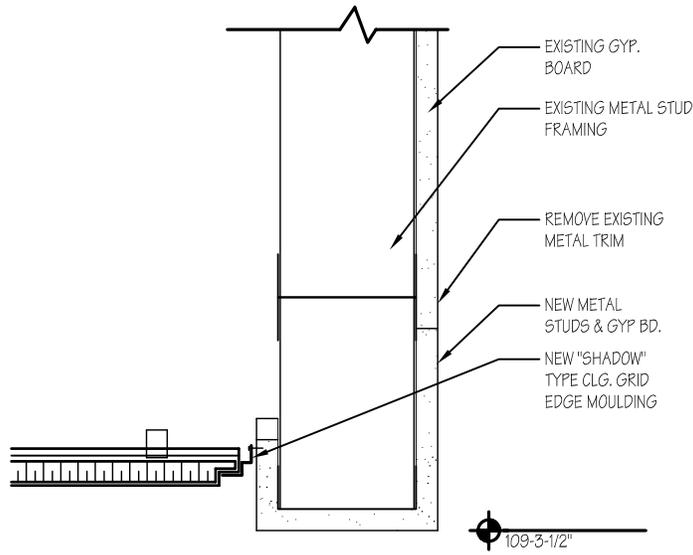
### 3.6 ACCEPTANCE

- A. Acceptance of installation is subject to final inspection and approval by:
  - 1. Architect or his designated representative.
  - 2. Local Building Department and Fire Marshal.
  - 3. Utah State Fire Marshal's Office.

END OF SECTION 15300



**A3** OVERHEAD COILING GRILLE DETAIL  
 1-1/2"=1'-0"



**B4** DETAIL @ SKYLIGHT  
 3" = 1'-0"