



State of Utah

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Lt. Governor

Department of Administrative Services

KIMBERLY K. HOOD  
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON  
Director

## ADDENDUM NO. 1

Date: April 5, 2011  
To: Shortlisted Contractors  
From: Mike Ambre - Project Manager  
Reference: West Campus Interior Improvements  
Utah Valley University – Orem, Utah  
DFCM Project No. 10295790  
Subject: **Addendum No. 1**

Pages	Addendum Cover Sheet	1 page
	Architect's Addendum No. 1	24 pages
	<u>Revised Bid Form</u>	<u>2 pages</u>
	Total	27 pages

**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.**

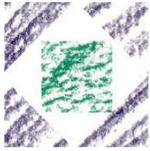
While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

**1.1 SCHEDULE CHANGES:** There are no Project Schedule changes.

**1.2 GENERAL ITEMS:**

1.2.1 See attached Architect's Addendum No.1 dated April 5, 2011

1.2.2 Attached Revised Bid Form incorporating Additive Alternate No. 1.

**HFS ARCHITECTS**

1484 South State Street  
 Salt Lake City, Utah 84115  
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**Addendum No. 1**

April 5, 2011

Project: Utah Valley University  
 West Campus Interior Improvements

Date:

Address: 987 South Geneva Road

Project No.:

1038.01

City, State: Orem, Utah, 84058

Owner No.:

10295796

Owner: DFCM

File No.:

**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
<b>GENERAL ITEMS</b>		
1-1		None
<b>SPECIFICATION ITEMS</b>		
1-2	01230	Alternatives: Replace the existing section with the section included with this addendum in its entirety.
1-3	03505	1.01 A.1. Change text to "Use cementitious type where "self leveling concrete" is called for on sheet AE101.A.
1-4	03505	2.01 A add "Mapei Ultraplan" as an approved product.
1-5	16704	Telephone System: Data system cabling shall be provided as part of this contract. Cabling shall meet UVU Cabling Standards (attached).
<b>DRAWINGS</b>		
1-6	AD101.A	Storage 141A - Existing floor & base finishes to remain except where floor is demolished.
1-7	AD101.A	Changing Room 144 - Opening (door #144) is to be sawcut at existing masonry joints. Exact dimension of 2'-11 1/2" can be adjusted to fit conditions, coordinate with architect as needed.
1-8	AD101.A	Bed Lab 140 - Casework along grid F7 is to remain, delete Keyed note "8", do not remove casework at this location.

Item No.	Section or Sheet No.	Description
1-9	AD101.A	On grid 14.4, between grids F6 & F7 The wall is indicated to be demolished complete by demolition note 3, demolish as indicated only to relocate opening as designated by sheet AE101.A, for door 137.
1-10	AD101.A	Refer to Plumbing sheet P-101A for two new sanitary sewer lines that exit the building on the East side. Demolish full sections of the 5' sidewalk next to the building and replace to match. Provide new sod as required. Repair any damage to sprinkler piping and wiring. The foundation wall will have to be core cut at these two locations
1-11	AD101.A	Classroom 128, Existing sidelite to remain adjacent to existing door opening (un-numbered existing door). Cut frame as required to allow sidelite to remain, patch and finish frame as required to provide a finished product.
1-12	AD101.B	Wall along grid F8 Between grids 14.0 & 14.1 graphically should be indicated as dashed wall for demolition.
1-13	AD101.B	Wall adjacent to grid 14.0 and between grids F8 & F8.5 graphically should be indicated dashed wall for demolition.
1-14	AD101.B	Adjacent to column at grids 13.9 & F7 is a diagonal wall with an undefined hatch pattern, ignore undefined hatch pattern, follow directions of demolition keyed notes as indicated.
1-15	AD101.B	Demolition Keyed Note "17", revise to include removal of steel stud framing as required to create required opening.
1-16	AE101.A	General Notes: Add note F. Repaint any wall damaged by construction, whether specifically called out by the Finish Schedule or not. Repaint corner to corner, or edge to edge, floor to ceiling or beam.
1-17	AE101.A	Storage 141A - Revise note to read "Patch floor, new VCT and rubber base as required.
1-18	AE101.A	Changing Room 144 - At door #144 it is not necessary to tooth-in masonry as long as opening is cut as indicated above.
1-19	AE101.A	Study 129 - At grid F5 transition new floor to existing along the line of the removed wall and provide a rubber transition molding.
1-20	AE101.A	Classroom 145 - The new wall shown along grid 14.4 is not a wall but a 5" chase behind the cabinets, refer to details A2, C2, B4, C4 & C5 on AE401. Provide "fillers" as required to hide any openings into the chase.
1-21	AE101.B	General Notes: Add note F. Repaint any wall damaged by construction, whether specifically called out by the Finish Schedule or not. Repaint corner to corner, or edge to edge, floor to ceiling or beam. (One example is the wall in the entry vestibule off of Storage Room 103A where a door has been added)

Item No.	Section or Sheet No.	Description
1-22	AE101.B	Classroom 127 - Provide one each 12'-0" white board centered on the long diagonal wall of the room.
1-23	AE101.B	The Window types for the new windows along the exterior wall of grid F9 are found on sheet AE201, enlarged elevations E4 & E5, add references accordingly.
1-24	AE102 Alt #1	Alternate Floor Plan A4 - Accessible toilet stall to have accessible toilet partition doors, graphically they are shown to small on the 1/8 scale plan.
1-25	AE111.A	Classroom 145 - The new wall shown along grid 14.4 is not a wall but a 5" chase behind the cabinets, refer to details A2, C2, B4, C4 & C5 on AE401. Provide "fillers" as required to hide any openings into the chase.
1-26	AE111.B	Reflected Ceiling Plan - refer to Electrical Lighting Plans for missing fixture locations.
1-27	AE201	Enlarged Exterior Elevation and Frame Type E4 Add note and point to door - "Existing relocated door."
1-28	AE502	This sheet has been replaced in its entirety, refer to the attached PDF file of AE502 for revisions to this sheet indicated by revision cloud.
1-29	AE503 Alt #1	Enlarged Plan D4 - Accessible toilet stall to have accessible toilet partition doors, graphically they are shown to small on the 1/8 scale plan.
1-30	AE601	Detail D6 indicate erroneous grid numbers, ignore these references they are incorrect.
1-31	AE601	Detail D5: Replace with new detail attached to this addendum
1-32	AE601	For detail D5 coordinate Structural detail D1/SE101 for structural support of folding partition.
1-33	AE601	DOOR SCHEDULE Change height of door 132B (operable panel partition) to 9'-0".
1-34	AE601	A3 Door Frames: Add note: At door 144 the frame will go in an existing CMU wall. Ship door frame knocked down. Head to be 4" high. Frame to be 7-5/8" deep to cover cut CMU. Punch and dimple frame for drilled anchors. Fill dimples with auto body compound and sand smooth. Head piece to be installed immediately after opening is cut. Shore head in place, then install jambs. Face weld head and jambs and grind smooth to match other frames.
1-35	EG001	Fixture Schedule: 1. Add Fixture Type "R" LED strip light in white and green colors, I-Light: PN24W2-S-CL/ADV100W24V (3) and PN24G-S-CL/ADV100W24V (2). 277 volt and lamps included.

Item No.	Section or Sheet No.	Description
1-36	ED101B	<p>Sheet Keynotes:</p> <ol style="list-style-type: none"> <li>1. Add note 18 to read: Remove existing surface raceway and receptacle. Remove transition box and reinstall receptacle flush in wall. See Power Plan Sheet EP101B for new requirements.</li> <li>2. Add note 19 to read: Remove existing surface cable and television outlet. See Power Plan Sheet EP101B for new requirements.</li> </ol>
1-37	ED101B	<p>Concourse</p> <ol style="list-style-type: none"> <li>1. Provide duplex receptacle with Keynote 18 at 8'-0" south of grid 13.8.</li> <li>2. Provide television outlet with Keynote 19 at 9'-0" south of grid 13.8.</li> </ol>
1-38	EL101B	<p>Storage 103A (see architectural sheet AE101B)</p> <ol style="list-style-type: none"> <li>1. Provide type "G" light fixture on wall common with Office 103. Provide switch on strike side of door and connect to light fixture. Circuit fixture to lighting circuit in Office 103.</li> </ol>
1-39	EL101B	<p>Faculty Room 120</p> <ol style="list-style-type: none"> <li>1. Revise light fixtures from type "J" to type "K".</li> </ol>
1-40	EL101B	<p>Conference 121</p> <ol style="list-style-type: none"> <li>1. Revise light fixtures in cove from type "L" to type "R". Provide connections from occupancy sensor power pack to LED drivers (3) white and (2) green.</li> <li>2. Add additional switch on south wall adjacent to existing switches. Switch control shall be as follows: Switch 1 - Type "E8" light fixtures, Switch 2 - Type R (white) light fixtures, and Switch 3- Type R (green) light fixtures.</li> </ol>
1-41	EP101A	<p>Concourse 100</p> <ol style="list-style-type: none"> <li>1. Provide data outlet for camera on west wall at 10'-0" south of grid 14.6. Coordinate with UVU IT Department.</li> </ol>
1-42	EP101A	<p>Classroom 110</p> <ol style="list-style-type: none"> <li>1. Provide power connection to Dental Chairs along west wall in floor. Circuit to L#-36. Coordinate stub-up locations with chair installer. Saw cut floor as required to wouth wall for installation of conduit.</li> </ol>
1-43	EP101A	<p>Sheet Keynotes</p> <ol style="list-style-type: none"> <li>1. Add note 8 to read "Provide cut-in-box for new outlet. Feed from Office side".</li> <li>2. Add note 9 to read: "Provide cut-in box for new television outlet. Feed existing cable from Office side.</li> </ol>

Item No.	Section or Sheet No.	Description
1-44	EP101A	<p>Concourse 100</p> <ol style="list-style-type: none"> <li>1. Provide new data outlet for camera at grids F4 and 14.1. Coordinate with UVU IT Department.</li> <li>2. Provide new data outlet for camera at 6'-0" north of grids F8 and 13.8. Coordinate with UVU IT Department.</li> <li>3. Provide duplex receptacle on west wall at 8'-0" south of grid 13.8. Connect to circuit L7-42 and mount at +96" AFF. Provide Keynote 8 Callout.</li> <li>4. Provide television outlet on west wall at 8'-0" south of grid 13.8 Provide Keynote 9 callout.</li> </ol>
1-45	EX602	<p>Panel L3</p> <ol style="list-style-type: none"> <li>1. Revise circuit 36 to feed Dental Chairs with #10 wire.</li> </ol>

**PRIOR APPROVALS**

1-46 Mechanical Approved Manufacturers’ Products: The following manufacturers, trade-names, and products are approved provided that they satisfy every requirement of the Drawings, Specifications, and all Addenda, and conform to the design intent, quality and standards specified. Naming of an “approve manufacturer” does not mean that the manufacture or product automatically complies with the design documents. Submittals must be acceptable in all respects to the project design team.

<u>Product</u>	<u>Manufacturer</u>
Ceiling exhaust fans	Broan-Nutone
VAV Re-heat Boxes	Carnes
Grilles & Diffusers	Nailor

**ATTACHMENTS**

1-47	UVU Cabling Standards
1-48	Revised Specification Section 01230 ALTERNATIVES
1-49	Revised Sheet AE502
1-50	Revised Detail D5/AE601

# Utah Valley University

## IT Infrastructure and Cabling Specifications for all new construction and remodeled spaces

### Cable TV, Media, Voice and Data (1Gig Solution)

Revised 09/2/10

The purpose of this document is to define UVU IT Infrastructure and Cabling specifications and standards.

All new construction and/or remodels on UVU campus will, at least, include the infrastructure necessary for the installation of technology whether the technology itself will be purchased as part of the building project or at a future date.

**Bonding** All bonding must comply with current TIA/EIA 607 standards.

**Testing and Documentation** All voice/data and fiber cables must be tested and certified to run at minimum speeds as set by cable manufacture. Each cable must be documented and recorded in a database and supplied to UVU in a digital format. CAD drawings documenting the voice/data/fiber systems will also need to be supplied to UVU. **All work must meet 569 Pathways Standards.**

**Certification and Warranty** All voice/data/fiber work must have both installers guarantee as well a manufacturer warranty. Each fiber will be tested at both 850nm and 1300nm multimode, or 1310nm and 1550nm singlemode. All work will be in compliance with UVU standards and stay in compliance of EIA/TIA standards. All state and local codes must also be followed. Any changes from these standards must have written permission from UVU IT. All contractors will keep UVU updated throughout the project.

**Contractors, Sub-contractors and Installers** All contractors, sub-contractors and installers must be approved by UVU IT. All voice/data contractors, sub-contractors and installers must be Siemon CI's.

**Abandoned Cable** All abandoned cable that isn't terminated at both ends must be removed by contractor before any cable can be placed. Abandoned cable can also be determined by UVU IT.

**Communications Wire Drop and Termination Specification** Horizontal voice drop cable must be a blue cat5e wire, terminated on (2) USOC RJ-14c jacks. Blue and orange pairs must be terminated on jack 1. Green and brown pairs terminated on jack 2. Jacks must be mounted in the upper left of the double gang face plate on the work station end and terminated in the IDF/MDF on standard 110 style termination block. Horizontal data drop cables must be white cat6 terminated on angled RJ45 cat6 jacks and mounted in the lower left double gang faceplate on the workstation end and terminated in the IDF/MDF/Switch enclosure with flat RJ45 cat6 jacks on a 48 port cat6 patch panel. Any unused face plate hole

on the workstation end will be filled with a blank cover. All wire used at UVU will be plenum rated and terminated to 568B wiring standards. All wiring will be in a conduit or cable tray. (1) cat6 white patch cable will be supplied for every terminated horizontal data connection from the patch panel in the IDF/MDF (50% 3', 25% 5', and 25% 7'). The channel link must comply with the TIA/EIA standards for Cat 6.

**Conduit** No Communications or Media conduit will be smaller than 1". All work must meet the 572 TIA/EIA standards.

**Communications Conduit** All data/voice communication conduit runs will consist of 1" conduits that go from the termination box in the wall up into the ceiling and then stubs into the nearest cable tray. These conduit runs will have a maximum of (3) 90 degree bends. All termination boxes will be double gang with a double mud ring unless otherwise specked by UVU. All conduit ends will have insulating bushings to protect cables from abrasion.

**Podium Communications Conduit** All podium data/voice communication conduit runs will consist of (2) 1" and (1) 2" conduit that go from the in-floor termination box through the floor then up the wall into the ceiling and then stubs into the nearest cable tray. These conduit runs will have a maximum of (3) 90 degree bends. All conduit ends will have insulating bushings to protect cables from abrasion.

**Media Conduit** All media conduit runs must consist of mix of 1" and 2" conduits. These conduit runs will have a maximum of (3) 90 degree bends. All termination boxes will be double gang with a double mud ring unless otherwise specked by UVU. All conduit ends will have insulating bushings to protect cables from abrasion.

**Standard Communications Drop** A standard drop is (1) voice cable and (2) data cables. (See UVU Communications Wire Drop and Termination Specification)

**Raised Floor Communications Drop** A raised floor drop is (2-12) data cables to MUTOA points/termination boxes. MUTOA point/termination box jacks under the floor must be equally distributed around the room with a maximum patch cord to computer length of 25' (maximum of (12) data connections to any one location). All jacks including wall and podium data drops in a lab will terminate in the uplink patch panel located in the switch enclosure. A complete end to end/channel link solution will be provided which means patch cords on both ends. (See UVU Communications Wire Drop and Termination Specification)

**Movable/Modular Furniture Communications Drop** Furniture will be connected to the hardwired jack via a patch cord with a coupler located in the furniture. No pertinent wiring will be allowed in furniture.

**Wireless Access/IP camera drop** A wireless access/IP camera drop is (2) data cables, located above the drop ceiling or above 120" from floor. Purple patch cords will be provided for every terminated wireless access/IP camera connection from the Max patch panel in the MDF/IDF (50% 3', 25% 5', and 25% 7'). (See UVU Communications Wire Drop and Termination Specification)

**Podium Communications Drop** A podium drop is (6) data, (1) voice and (1) cable TV. This communications drop will also include (2) 20 amp duplex power outlets on separate circuits. This will be terminated in (1) in-floor box. This Podium Data/Power in-floor Box will be located within 4” of the Podium Media in-floor box. This in-floor box needs to be adequately sized to accommodate all connections without compromising the integrity of the cables. The floor box must be level with the floor and have the capability of placing a podium over it. (See UVU Communications Wire Drop and Termination Specification)

**Front Wall Communications Drop** A front wall drop is (4) data cables, installed on the front wall near the center, above the drop ceiling or above 120” from floor. (See UVU Communications Wire Drop and Termination Specification)

**Fiber** Multimode and singlemode fiber will be rated to the appropriate TIA/EIA standard to provide 10G. Each fiber cable will be terminated, documented and labeled at each end in its own RIC/LIU. All fiber terminations must be SC connectors. All fiber must be in conduit or plenum innerduct. All singlemode terminations will be fusion spliced pigtails. Multimode and singlemode duplex SC-LC fiber patch cords will be provided for a minimum of 25% of the installed fiber in the building (60% 1 Meter and 40% 3 Meter).

**Fiber Uplinks** Fiber uplinks will be at least (24) strands of singlemode and at least (24) strands of multimode fiber to all IDF rooms from the MDF room, and (12) strands of singlemode and at least (12) strands of multimode fiber to all server room racks/enclosures from the MDF room. There must also be at least (12) strands of multimode fiber to each wall mount swing out switch enclosure.

**Backbone Fiber Connection** Backbone fiber that connects a buildings main data room (MDF) to another campus buildings main data room (MDF) will be at least (144) strands of singlemode fiber. All fiber cables will be terminated in separate RIC/LIU’s.

**Wiring for Security Devices** Proximity lock wiring (See UVU Locksmith for Specs). Security camera (See wireless access/IP camera drop).

**Data/network Equipment** Connectivity for each jack must be provided. All data equipment must be compatible with current UVU systems and standards. See UVU IT for current spec.

**Raised floor area** Tiles must use stringer cross beam construction for support. Tiles need to be 2’x2’ in size and non-concrete filled. Tiles will be held in place by friction and not individually attached using screws. Floor must have a minimum depth of 12” to allow for infrastructure placement without restricting air flow. Cable tray must be provided under raised floor area for cable management. Raised floor and cable tray must be properly grounded.

**Computer Lab Raised floors** All computer labs will have raised floor and follow all the specifications and standards that are outlined in the “Raised Floor Area” of this document. In a building where there are multiple computer labs those labs should be grouped together with

a common raised floor. There should be enough conduits from under floor to switch enclosure to allow for required cable plus 50% room for growth. Computer labs can have carpet on top of raised floor tiles. Conditioned power must be supplied under computer lab raised floors to adequately support computer lab workstations.

**Switch enclosures** Computer lab switch enclosures will be located either in a common Data/Telecomm Rooms (IDF/MDF) type room that is shared by multiple labs or in a Wall Mount Swing Out Switch Enclosure.

**Server Room** will have raised floor and follow all the specifications and standards that are outlined in the “Raised Floor Area” of this document. Tiles in the Server Room must have an anti-static finished tile surface (without carpet). Conditioned power that is protected with UPS and connected to a generator back up system must be supplied under server room raised floors to adequately support computer equipment that is installed in the server room (contact UVU IT Services to coordinate). All power distribution equipment such as transformers, UPS equipment, breaker panels, and PDU equipment will not be housed in the server room. Optimally the server room will be located adjacent to the buildings MDF. There must be a clear and easily accessible cable tray path that connects the server room with the MDF and there must be enough cable tray capacity between these two rooms to allow for 400% growth. The room will have a horizontal ladder/cable tray on all outside walls and extend just above the top of all the equipment racks/enclosures. Server rooms must have a 24/7 365 days a year HVAC system, controlled independently from the buildings HVAC system. The rooms HVAC system must be on the generator back up system. Temperature and humidity need to be monitored by both IT Services and Central Plant via TCP/IP. A secondary/backup heat displacement system that is manually controlled, reversible from outside supply to outside exhaust will be provided. Access will be proximity lock controlled as well as have video security monitoring. A ground bus connected to the main building ground will be provided. All walls must be covered with 3/4” 8’ high plywood, painted with a fire retardant paint.

**Data/Telecomm Rooms (IDF/MDF)** Data/Telecomm Rooms consist of IDF and MDF rooms. Optimally these rooms are located in the central core of a building. When construction consists of multiple floors these Data/Telecomm Rooms must be stacked on top of each other. These rooms work best if they are rectangle in shape with a door in one end. There must be a minimum of (2) 4” x 12” holes or (4) 4” conduit sleeves in floor/ceiling with vertical ladder/cable trays connecting the rooms. The room will have a horizontal ladder/cable tray on all outside walls with a tee extending just above the top of racks. In general all horizontal copper cabling (except for computer labs) will terminate in one of these rooms. All copper data connections to these rooms can be no longer then 280’ (permanent link). Each rack and one or more outlets on each wall must have (1) dedicated 20 amp circuit conditioned through a UPS and connected to a generator back up system. Power transformers will not be housed in the IDF/MDF rooms. Rooms must have a 24/7 365 days a year HVAC system, controlled independently from the buildings HVAC system. The rooms HVAC system must be on the generator back up system. Temperature and humidity need to be monitored by both IT Services and Central Plant via TCP/IP. Access will be proximity lock controlled as well as have video security monitoring. A ground bus connected to the main

building ground will be provided. These rooms need to be directly accessible from the hallway. All IDF and MDF walls must be covered with 3/4" 8' high plywood, painted with a fire retardant paint.

**IDF Rooms** All IDF rooms must be at least 140 square feet and centrally located on each floor and stacked vertically above each other and with the MDF room.

**MDF Rooms** The MDF room must be at least 500 square feet and centrally located on the floor and stacked vertically above or below the IDF rooms.

**Wall Mount Swing Out Switch Enclosure** Switch enclosures will be an enclosed standard 19" equipment rack with front and rear rack rails with a smoked glass front cover. Enclosure must lock and have a hinge in the front and rear for center swing out feature, with a door that will swing left or right. Enclosure must lock in front and rear and have wire management. Enclosure dimensions are 36" high with a center section no less than 18". Enclosures will be mounted in compliance with ADA standards, which is the bottom of the enclosure can be no lower than 80" from the floor. Each enclosure must have fiber uplink to MDF/IDF, (1) dedicated 20 amp circuit conditioned through a UPS and connected to a generator back up system, and a rack mount power strip. There should be enough conduit capacity from switch enclosure to the cable tray and to under the floor to allow for cabling, fiber and innerduct plus 50% room for growth.

**Telco Racks** MDF/IDF racks must be 7 foot full size steel racks, with cable and power management. Each rack must have a full height vertical cable management system attached. Just above the highest patch panel and just below the lowest patch panel there must be a 2RU horizontal wire management panel. In between each patch panel there needs to be a 2U horizontal wire management panel. Each rack must have (1) dedicated 20 amp circuit conditioned through a UPS and connected to a generator back up system. Each rack must have a rack mount power strip. All racks must be properly grounded to TIA/EIA standards. Copper cable, fiber optic cable and data electronics must be terminated and installed in separate racks. There must be enough rack capacity to handle all cable and equipment plus allow for 50% growth.

**Equipment Racks/Enclosures** Server room racks/enclosures must have an equipment mounting height of 42U for EIA-310-D 19" equipment. Cable and power management in the racks/enclosures must be provided. Each rack/enclosure must have (2) dedicated 20 amp circuits conditioned through a UPS and connected to a generator back up system. Each rack/enclosure must have (2) rack mount power strips. Each equipment rack/enclosure will have fiber uplinks to the MDF room. All racks/enclosures must be properly grounded to TIA/EIA standards.

**Patch Panels** 48 port cat6 Patch Panel

**Phone feeder cable** All feeder cable must be terminated in 110 style termination blocks. All feeder cable must be riser rated. All feeder cable must be fully tested for continuity. No defective pairs will be accepted.

**Cable Tray** Cable tray must follow all major corridors of the building; it must be ladder type and must be sized appropriately to provide adequate capacity for cable spec plus 50% growth, minimum size to be 4"x12". The cable tray must penetrate all necessary walls in order to provide a continuous path. If it is not possible to continue the cable tray through the wall (4) 4" conduits must be provided in order to continue the path. Cable tray must extend into IDF/MDF rooms and will connect to ladder/cable tray on all outside walls with a tee extending to just above the top of racks of the IDF/MDF. Vertical ladder/cable trays will be used for any vertical rise of tray or when connecting rooms above or below tray. When a cable tray goes through a floor/ceiling there must be a minimum of (2) 4" x 12" rectangular holes or (4) 4" conduit sleeves in floor/ceiling with vertical ladder/cable trays connecting the rooms. A separate cable tray will be installed for all backbone hard sheath cable and inner duct. All cable trays will be properly grounded. There must be enough cable tray capacity to allow for 50% growth.

**Cable TV Standard Drop**

Digital Cable TV Option: IPTV specs to be determined. See owner.

Analog Cable TV Option: All Horizontal cable TV drops must be made with (1) white RG-6 plenum rated cable. All cable TV drops must be terminated with F-Conn Industries (part # FS6-R), Digicon (part # DS6.01-02), or equivalent RG6 F connector's.

In offices, cable TV outlets will be terminated along with (1) of the standard communications voice/data drops. It will be located with the standard communications voice/data drop opposite the hallway entrance to the office. It will consist of (1) coax F-type angled module located on the bottom right of double gang face plate.

In non media enhanced instructional space/labs, cable TV outlets will be terminated in the front corner of the instructional space/lab normally opposite the hallway entrance, and 12" from the ceiling in the media front side J-box. It will consist of a coax coupler with (1) F-type adapter located on the bottom of face plate with a flat blank cover in the top of the face plate. There shall also be a power outlet within 12" of cable TV box to provide power for display.

In media enhanced instructional space/labs, cable TV outlet will be terminated in the podium communications drop it will consist of a coax F-type angled module located on the bottom right of double gang face plate.

All RG6 cable TV drops will home run back to the nearest tap location in the hallway cable tray or Data/Telecomm room. No daisy chains, splitters or combiners are to be used in the distribution lines. Cable TV drops will normally not be any longer then 100' and may not exceed 150' maximum. A minimum RF level of 0 to +4 dB will be maintained at the wall output connection. Cable TV drops normally will be grouped in the hallway cable tray in groups of (4-6) drops per tap location. Each cable TV drop must be labeled at each tap location.

### **Cable TV Distribution System**

Digital Cable TV Option: IPTV specs to be determined. See owner.

Analog Cable TV Option: This system will be integrated into the existing campus wide C-Cor 750 MHz bi-directional Mid-Split broadband distribution system, using C-Cor Bridging Amplifier's (part # FNB99DS-L08G6C1), or equivalent, and ½" plenum rated Commscope trunk cable (part # Commscope 2312 White), or equivalent, installed with no splices and terminated with Gilbert ½ " Trunk connectors (part # 500-CH-DU-03) , or equivalent. Amplifiers may be placed in phone/data rooms or hung from the cable tray (As specified by UVU).

This cable TV broadband RF distribution system will distribute campus audio and video signals throughout the building including all instructional space labs and all offices. The system will use broadband bi-directional bridging amplifiers, a main trunk line to maintain an independent distribution system to amplifiers and a building distribution trunk line with directional couplers (taps). Power is provided thru the trunk cable from the CS Building head-end unless the signal is provided to the building via fiber then a power supply will be required in the building. The building distribution trunk line will have appropriately spaced multi-outlet "0" loss directional couplers (taps). Taps will be Regal RTM-XXBCP, or equivalent, with XX being the appropriate dB drop value of 32, 26, 23, 20, 14, and 11 (part # RTM-XXBCP). Taps will normally serve a maximum of six individual cable TV drops and have (2) ports available for future UVU use. Taps will be mounted on the hallway cable trays or in the phone/data rooms with an appropriately designed output gain, so that a minimum RF level of 0 to +4 dB will be maintained at the wall television connection. The cable TV distribution system will provide all cable, amplifiers, splitters, directional couplers (taps), terminators, outlets, and connectors. It will be designed and engineered to established Cable TV standards. The design will include schematics as to where all amps and taps should be located as well as the proper values for the taps. Documentation, including as-builds to where all amps and taps are located as well as the values for the taps will be supplied to UVU. The complete cable TV distribution system will be bid as a single lump sum unit price.

**UVU Media Technology Definitions** UVU media enhanced teaching environments consist of four types of instructional space: lecture halls, classrooms, labs and conference rooms. There are also three classifications or levels within the different types of instructional spaces: Premier, Standard and Basic. All new construction and/or remodels on UVU campus involving instructional space will include the infrastructure necessary for such technology as laid out in this document weather the equipment will be installed with the project or at a later date.

**Media Testing and Documentation** All media cabling must be tested and certified by the installer according to UVU specifications. Cable must be documented in a database and supplied to UVU in a digital format. CAD drawings documenting all media connections, settings and systems will need to be supplied to UVU upon substantial completion. All

system interfaces must match existing campus system. In the case that UVU Media Engineering opts to do the classroom integrations proper infrastructure and resources we be put into place to accommodate their needs following the standards outlined in this document.

**Media Certification and Warranty** If an AV integration company is used on a project they must have at least 5 years experience installing media equipment in the education environment and be accepted by UVU. All installations must be warranted by installer as specified in building program. All media integrators will follow UVU media standards and will stay in compliance with standards set fourth in the buildings program. Any deviance from these standards requires consent from UVU. Contractor and media integrator will keep UVU Media Engineering updated and informed throughout the building project.

**Media Wire and Termination Specification** All media cabling must be plenum rated (unless specified by UVU). Highest resolution signals will always be used. Each cable must be labeled on both ends first stating the destination and then the origination signal. All cable should be run in a cable management system following LVC standards, and will be organized in a professional manner approved by UVU. All cable will have enough length in order to allow for cable management without having any stress or strain to the cable or equipment connection. Cables will be terminated to length without excess cable length. All cabling should follow industry standards for length of run. VGA cables will be no longer than 45” without amplification. Cable used will be certified by UVU prior to use on any project. All cable clean-up will use Velcro straps instead of cable ties.

**Media Integration** All media integration must meet or exceed ADA, Americans with Disabilities Act, standards as well as UVU campus standards as outlined in this document. In person coordination is also recommended with the UVU media department as to assure continuity throughout all campus technology installs. Both cabling and equipment integration will be done as part of the building construction process, providing UVU a turn-key solution upon completion of the building. In the event that the media integration is not done as part of the building construction, UVU media and one sub-contractor will be allowed in the building 4 months prior to substantial completion, allowing them to complete the media work along with the final stages of the building construction process. UVU media will be compensated for labor and overtime costs through the building budget. All other UVU media projects and support priority needs will then be lowered.

**Mounts** Plywood or wood stud backing will be in place for all equipment mounted on walls including flat panels. Mounts will span at least 3 studs. Chief brand mounts will be used with all security features added. Currently UVU uses the non universal RPM series (projector and flat panel specific) when mounting displays.

**Media Control System** Crestron Control systems will be in place for easy control of all classifications of media systems. These systems will include touch panel/button interfaces, network control for all control systems, desktop executable files for IP control, and latest versions of Crestron Roomview. All programs will be compatible and interfaced with existing UVU systems. Two way Serial RS232 control must be used before any other control option.

**Media Control System Programming** Only level 3 Crestron Certified programmers can bid or do any programming at UVU. UVU will maintain rights to all Media and Crestron programs and source code. Before substantial completion programmer will deliver all final program files to the UVU liaison prior to UVU building sign off.

**Media Equipment** All media equipment must be compatible with current UVU systems and equipment standards. Campus standard equipment models must be used to accommodate easy support and issues such as bulb replacement etcetera.... All proposed models will be approved by UVU Media Engineering. A current list of brands and models being used can be requested from UVU media Engineering. UVU is always open to new ideas and suggestions, but reserves the right to stick with tried and true brands and models.

**Media Conduit Layout (*See Instructional Space Conduit Layout Plan*)**

**Main Media J-box** 24"x24"x4" deep J-box will function as the main junction for all of the media A/V cabling in each room. (See Instructional Space/Lab Conduit Layout Plan) It is located on the front wall of the instructional space/lab above the ceiling grid. This box will have the following conduits connecting to it: 2" and two 1" conduits from the podium media in-floor box, 1" conduit to the cable tray, 1" conduits to J-box's on each side of the front wall (for display, speakers, CVS systems), 2" conduit that extends back above the ceiling (approx. 12') from the front of the room to the projector position (See Projector Placement ), 1" conduit to ceiling mounted document camera location above podium, 1" conduit to IP camera location, and 1" conduit to motorized Screen for low voltage control. There will also be 4 data ports present within or within 12" of the main media J-box. These jacks will be used for: projector monitoring, IP cameras and IPTV. A 20 amp duplex power outlet will also be placed on the front wall within 12" of the main media J-box.

**Podium Media (In-Floor Box)** Minimum 6"x 6"x 4" deep in-floor box will have a 2" and 1" conduit for the media integrator and a 1" virgin conduit with pull string for future UVU use. These conduits will run from the in-floor box to the main media J-box. The in-floor box must be level with the floor and have the capability of placing a podium over it.

**1" Conduit to hallway cable tray** 1" conduit will run from the main media J-box to the hall cable tray. This conduit may be used for cable TV and other future room inputs and outputs.

**1" Conduits to each side of the front wall** 1" conduits will run from the main media J-box to double gang box's with a single gang mud ring's, which will be located on both sides of the front wall 24" from the side wall and 12" down from the ceiling. These boxes will be used for displays, flat panels, speakers, cable TV and RF receivers for CVS systems.

**Projector Location** 2" conduit will extend back (approx. 12ft) from the main media J-box above the ceiling from the front of the room to the projector position. The exact position will be determined by the display equipment selected. There will also be a 20 amp duplex outlet within 12" of the projector location (See projector manufacture and UVU specs for projector placement). The projector needs to be aligned with the motorized screen position.

**Document Camera Conduit** 1” conduit will run from the 24x24 main media J-box to a double gang J-box located above the ceiling grid over the podium. Exact placement will be coordinated with UVU Media Engineering

**1” conduit to IP camera location** 1” conduit will run from the 24x24 main media J-box to the back corner of the room opposite the entrance with a double gang J-box located above the ceiling grid 2’ from the side wall.

**Motorized Screen Conduit** 1” conduit will run from the 24x24 main media J-box to the location of the screen. This will be used for low voltage control of screen. The screen will be offset to one side of the front wall, opposite the entrance with the projector and projector conduit placed accordingly. Power will also be present for screen.

**Motorized Screen** A motorized screen will be centered on the side of the room away from the entrance with one side of the screen near the center of the room. The motorized screen will be installed above the ceiling grid with accommodations made in the drop ceiling. The screen will be low voltage controlled from the room control system and from a front wall switch.

**Lighting** Ideally media enhanced areas have dimmable florescent and/or incandescent lighting that is RS 232 control via the room control system (Crestron Control). Typically the control system will have lighting presets and dimming controls in the front and back of the room. Lights should be arranged in stations or circuits as follows: The row of lighting in the front of the room should be one circuit. There should be incandescent directional lights pointed at the teacher podium on another circuit. All other rows of lights will have inboards and outboards on separate circuits to provide various lighting scenes. If UVU decides to go with non dimmable lighting for any reason, the lights will be arranged so that the front row is one circuit. All other rows of lights will have inboards and outboards on separate circuits so that we can simulate light dimming. All circuits need to be controlled via presets that are controllable through a central room control system via RS-232 or relay control. Lighting will be controlled from three locations the: media control system, front of the room and rear near the room entrance.

**Podium** Podiums will be supplied as part of the infrastructure. They will be built to UVU’s current campus standard. All dimensions and an example drawing will be supplied by UVU. The podium will have two 19 1/8” wide rack mounting areas on both sides of the podium with a 4” race way between the two for routing cables. The side of the podium nearest the class (Back of Podium) will have locking doors for access to the back of all equipment and cable chase. The front side of the podium will have a locking door on the side nearest the wall with the side nearest the center having a magnetic electric strike that will open upon login for teacher equipment access. The podium will be placed over the podium in-floor box and the podium data drop. Two data ports, using patch cords, will be extended to the top of the podium along with a duplex power outlet and terminated into a surface mount enclosure. There will also be auxiliary inputs available in the enclosure.

**Video Surveillance Systems (VSS)** Cameras will be specified for viewing of owner specified subject areas, and installed in appropriately rated enclosures. Cameras must be in place in all building entry/exit points as well as MDF/IDF's. Other select building thoroughfares, elevators, lobbies and other select sensitive interior areas will also be covered. IP camera signals will tie in the central campus NVR VSS system. Additional software licensing and NVR storage space will be addressed as part of the building budget.

**Digital Signage System (DSS)** Flat panel displays will be installed throughout the building. Ideally each display will be back-set into the walls to accommodate for ADA standards. Where this is not possible other considerations will be made for ADA requirements. Displays will be strategically placed throughout the building following a similar pattern to the VSS system. Each display location will have power and data present along with 2 homerun CAT5 cables for central distribution running to a central IDF (all cables to one IDF). These CAT5 runs must meet campus data specifications and be yellow in color.

**Preferred Voice and Data Wiring Companies** Only the following listed companies can bid on the voice and data wiring at UVU:

1. Americom Technology (Phone 892-0519 Fax 892-0585)
2. Cache Valley Electric (Tim Hadden, Phone 908-4190 Fax 908-7041)
3. Niels Fugal & Sons (Matt Pierce, Phone 785- 3152 Fax 796-5081)

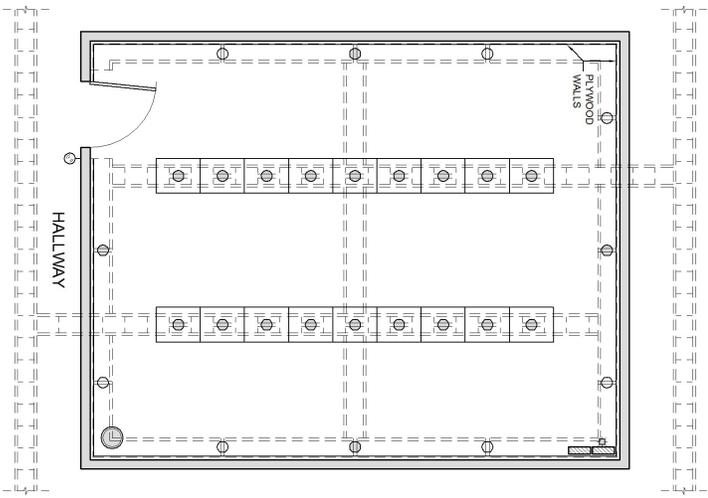
**Part Numbers for Communications Cable Termination**

Cat6 double data jack	CT-C6-C6-02
Cat6 single data jack	MX6-02
Cat5e voice jack	CT-U3-U3-02
Cat6 48 Port patchpanel	HD6-48
Cat6 patch cords	MC6-8-T-XX-02 (XX equals the desired length)
Terminal Room Racks	RS-07-S
Side management for Rack	VPC-6
110 Termination Block (Voice)	S110AW2-100

All part number are from the Siemon Company.

**Approved Communications Cable**

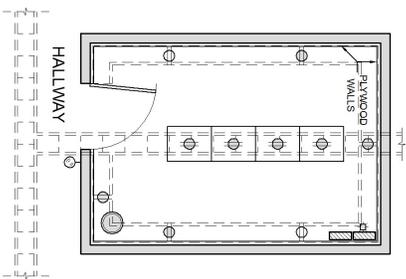
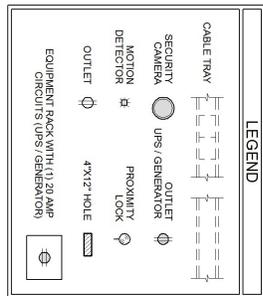
Cat6 data wire	Mohawk AdvanceNet or General Cable GenSpeed 6000e Cat 6+
Cat5e voice wire	Mohawk MegaLAN or General GenSpeed 5500



**MAIN  
DISTRIBUTION FACILITY**

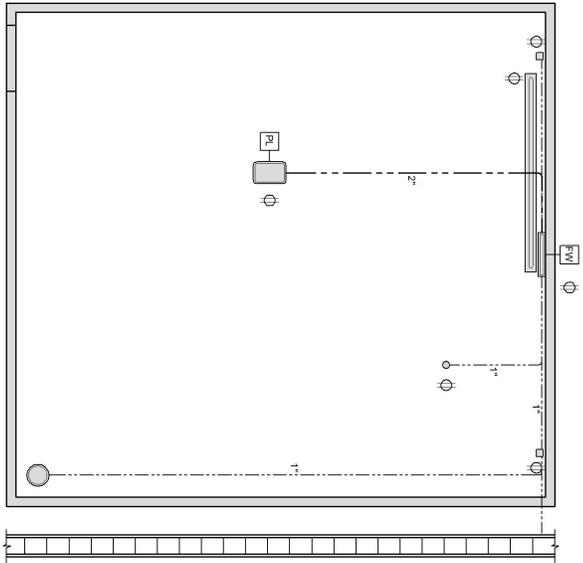
500 SQ.FT.

3-29-2006

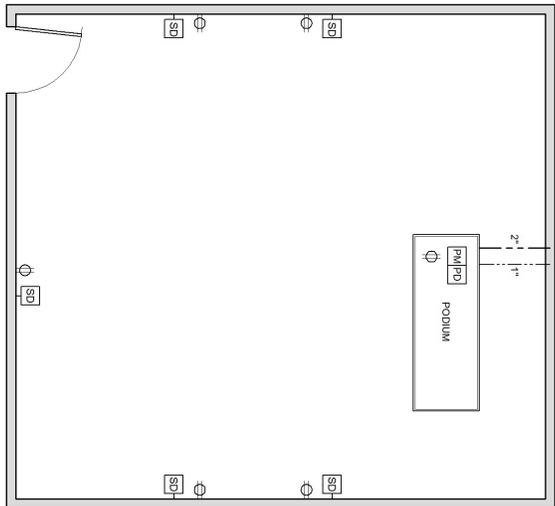


**INTERMEDIATE  
DISTRIBUTION FACILITY**

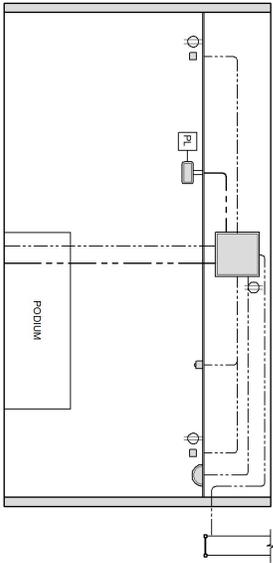
140 SQ.FT.



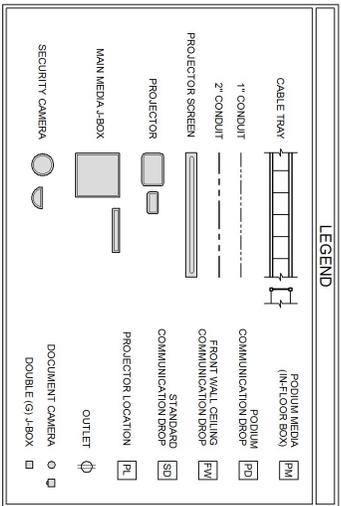
CEILING PLAN



FLOOR PLAN

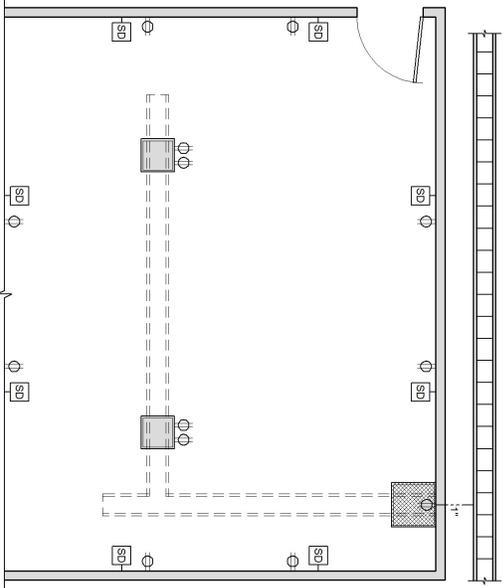


ELEVATION VIEW

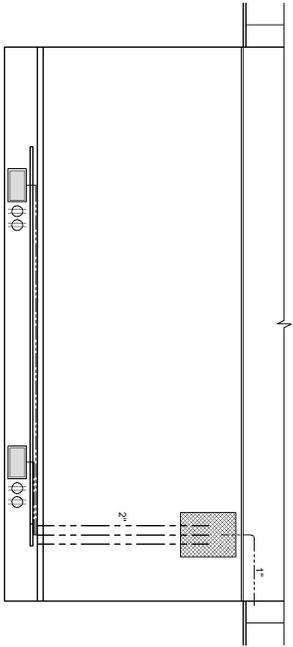


# INSTRUCTIONAL SPACE - CONDUIT LAYOUT PLAN

3-29-2006



PLAN VIEW

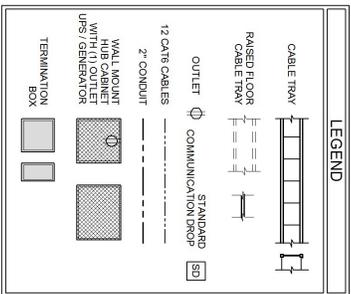


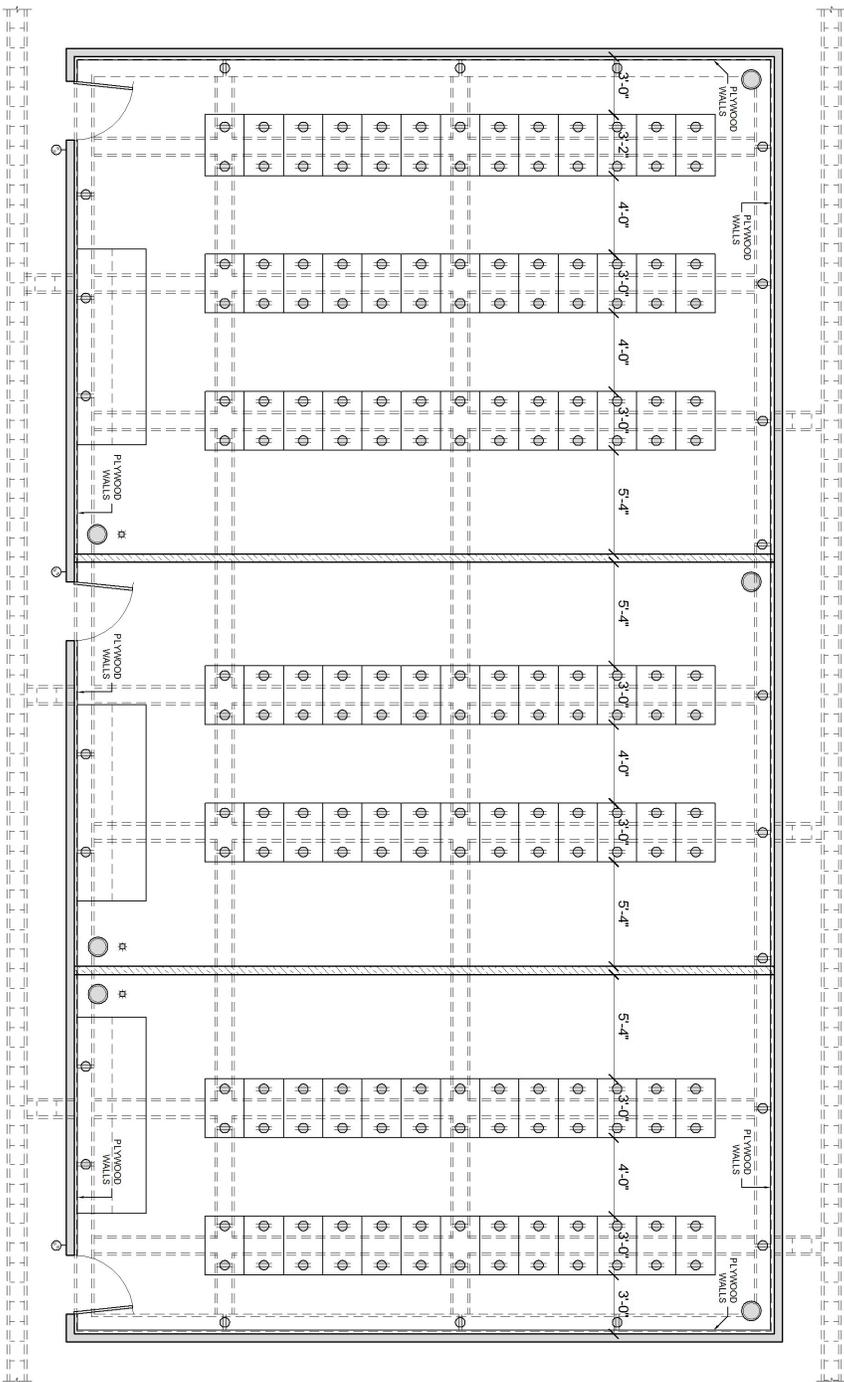
ELEVATION VIEW

# COMPUTER LAB

3-29-2006

COMPUTER LAB TO USE INSTRUCTIONAL SPACE - CONDUIT LAYOUT PLAN





**SERVER ROOM - 2300 SQ. FT.**

LEGEND	
	CABLE TRAY
	SECURITY CAMERA
	UPS OUTLET
	GENERATOR
	FIRE EXTINGUISHER
	PROXIMITY SENSOR
	PARTITION WALL

3-29-2006

**SECTION 01230**

**ALTERNATIVES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Description of alternates.

**1.02 ACCEPTANCE OF ALTERNATES**

- A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at DFCM's option. Accepted alternates will be identified in the Owner-Contractor Agreement.
- B. Coordinate related work and modify surrounding work to integrate the Work of each alternate.

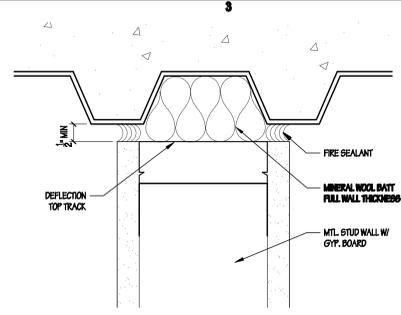
**1.03 SCHEDULE OF ALTERNATES**

- A. Alternate No. 1 - Infilling the open bay between grids 13.6 & 13.7 and grids F4 & F5 on the second level:
  - 1. Alternate No. 1 is shown on sheet AE102 Alt. #1. This alternate includes modifying restrooms 129A and 129B which changes the configuratiuon or Faculty Room 119 and Offices 117, 118 and 120. The removal and replacement of the first floor ceiling between Grids 13.6 & 13.7 and Grids F4 & F5+5' is also part of this Alternate. See Structural, Mechanical, Plumbing and Electrical drawings to see the full extent of this work.

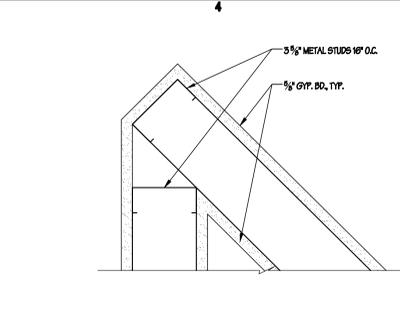
**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION - NOT USED**

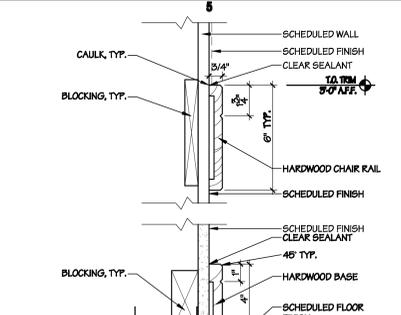
**END OF SECTION**



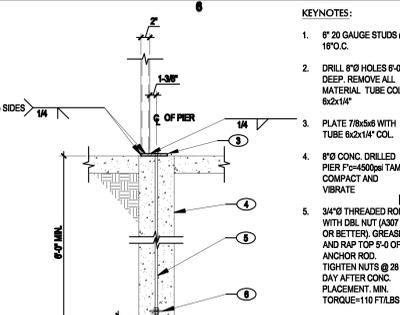
**E3 RATED WALL - HEAD DETAIL**  
SCALE: 3" = 1'-0"



**E4 OUTSIDE CORNER DETAIL**  
SCALE: 3" = 1'-0"

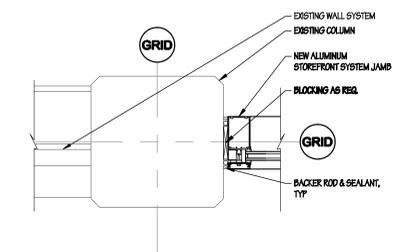


**E5 HDWD CHAIR RAIL & BASE DETAIL**  
SCALE: 3" = 1'-0"

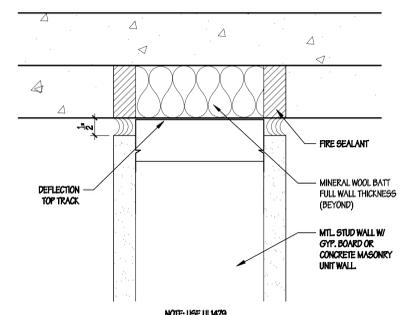


**E6 FREE STAND. WALL ANCHOR DETAIL**  
N.T.S.

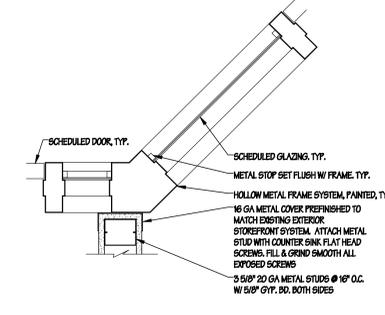
- KEYNOTES:**
- 6" 20 GAUGE STUDS @ 16" O.C.
  - DRILL 8" HOLES 6" DEEP. REMOVE ALL MATERIAL. TUBE COL. 8x2x14"
  - PLATE 7/8x5/8 WITH TUBE 8x2x14" COL.
  - 8" CONG. DRILLED PIER Fc=4500psi TAMP, COMPACT AND VIBRATE
  - 3/4" THREADED ROD WITH DEL. NUT (A57 OR BETTER), GREASE AND RAP TOP 5" OF ANCHOR ROD. TIGHTEN NUTS @ 28 DAY AFTER CONG. PLACEMENT. MIN. TORQUE=110 FT.LBS.
  - DOUBLE NUT WITH 100KG PLATE



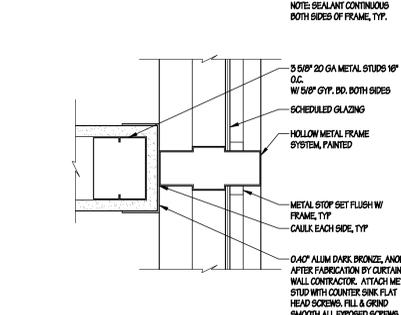
**D2 WINDOW JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0"



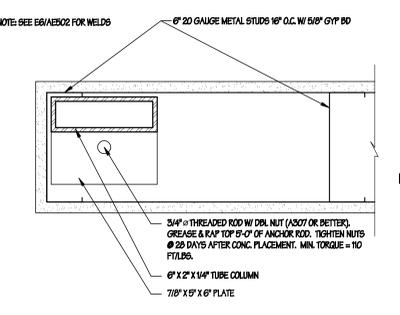
**D3 RATED WALL - HEAD DETAIL**  
SCALE: 3" = 1'-0"



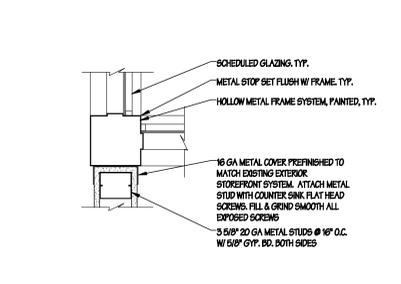
**D4 WINDOW JAMB DETAIL**  
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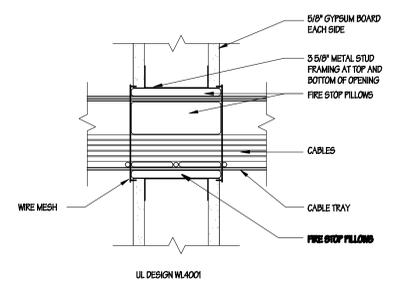
**D5 WALL TO MULLION DETAIL**  
SCALE: 3" = 1'-0"



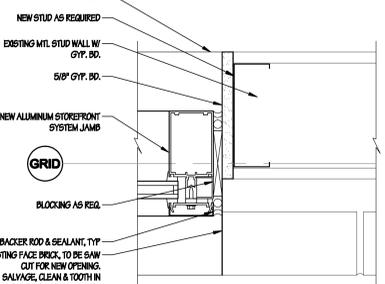
**D6 LOW WALL BASE DETAIL**  
SCALE: 3" = 1'-0"



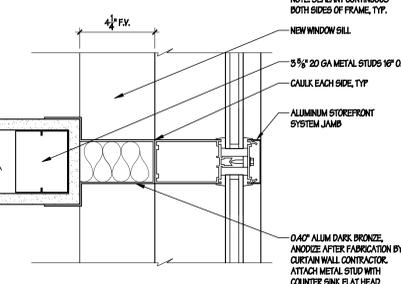
**C2 WINDOW JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0"



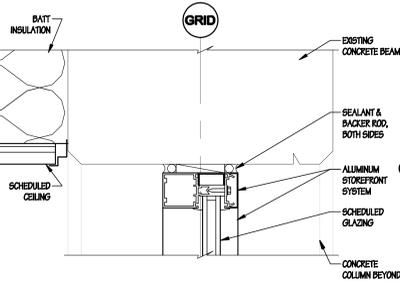
**C3 RATED WALL - CABLE TRAY PENETRAT.**  
SCALE: 3" = 1'-0"



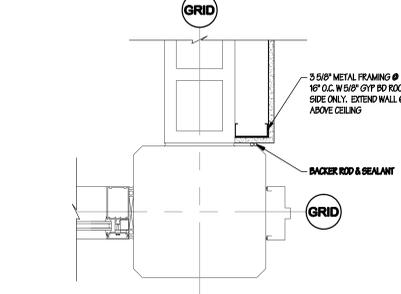
**C4 WINDOW JAMB DETAIL**  
SCALE: 3" = 1'-0"



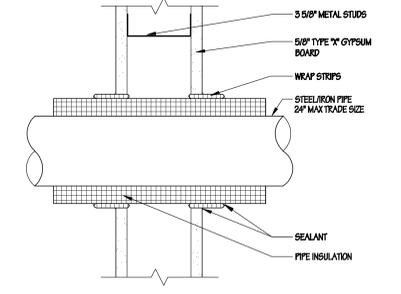
**C5 WALL TO MULLION DETAIL**  
SCALE: 3" = 1'-0"



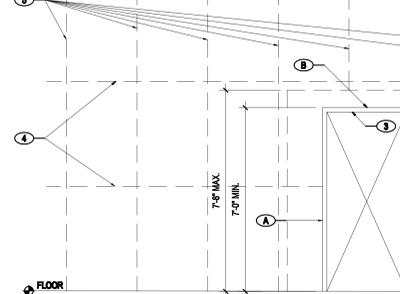
**C6 HEAD DETAIL**  
SCALE: 3" = 1'-0"



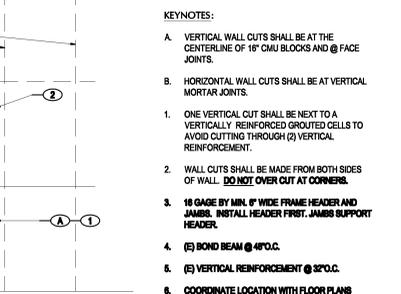
**B2 FURRING DETAIL**  
SCALE: 1 1/2" = 1'-0"



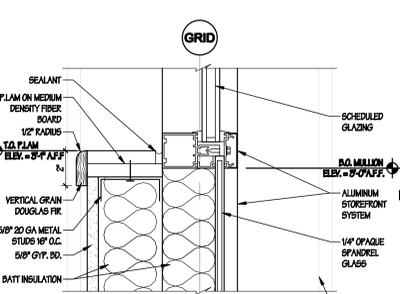
**B3 RATED WALL - PENETRATION**  
SCALE: 3" = 1'-0"



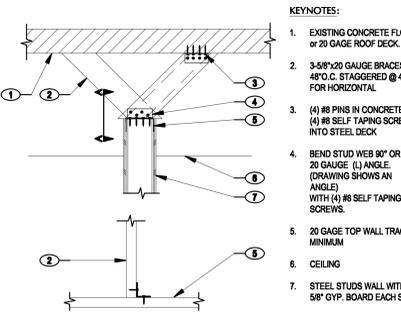
**B4 ELEV. NEW DOOR OPEN. IN (E) CMU WALL**  
N.T.S.



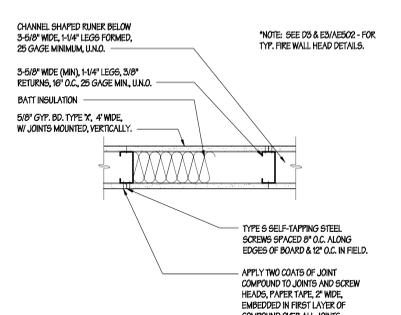
**B5 WALL TO MULLION DETAIL**  
SCALE: 3" = 1'-0"



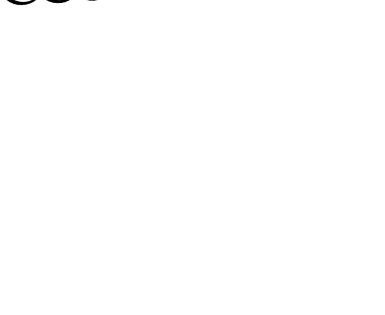
**B6 SILL DETAIL**  
SCALE: 3" = 1'-0"



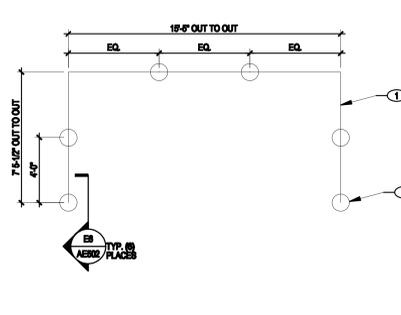
**A2 INTERIOR STUD WALL BRACE DETAIL**  
N.T.S.



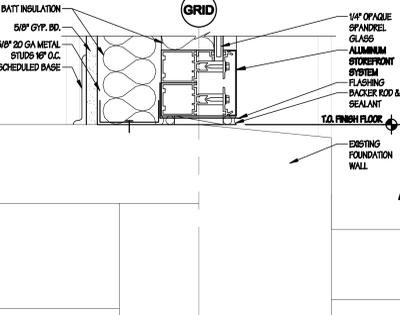
**A3 1-HR RATED UL WALL**  
SCALE: 1 1/2" = 1'-0"



**A4 NOT USED**



**A5 FREE STAND. WALL ANCHOR. LOCATION**  
N.T.S.



**A6 SILL DETAIL**  
SCALE: 3" = 1'-0"



**HFS Architects**  
ARCHITECTURE  
INTERIORS  
PLANNING  
1484 South State Street  
Salt Lake City, Utah 84115  
801-588-0891/F: 588-0893  
www.hfsa.com

CONSULTANT



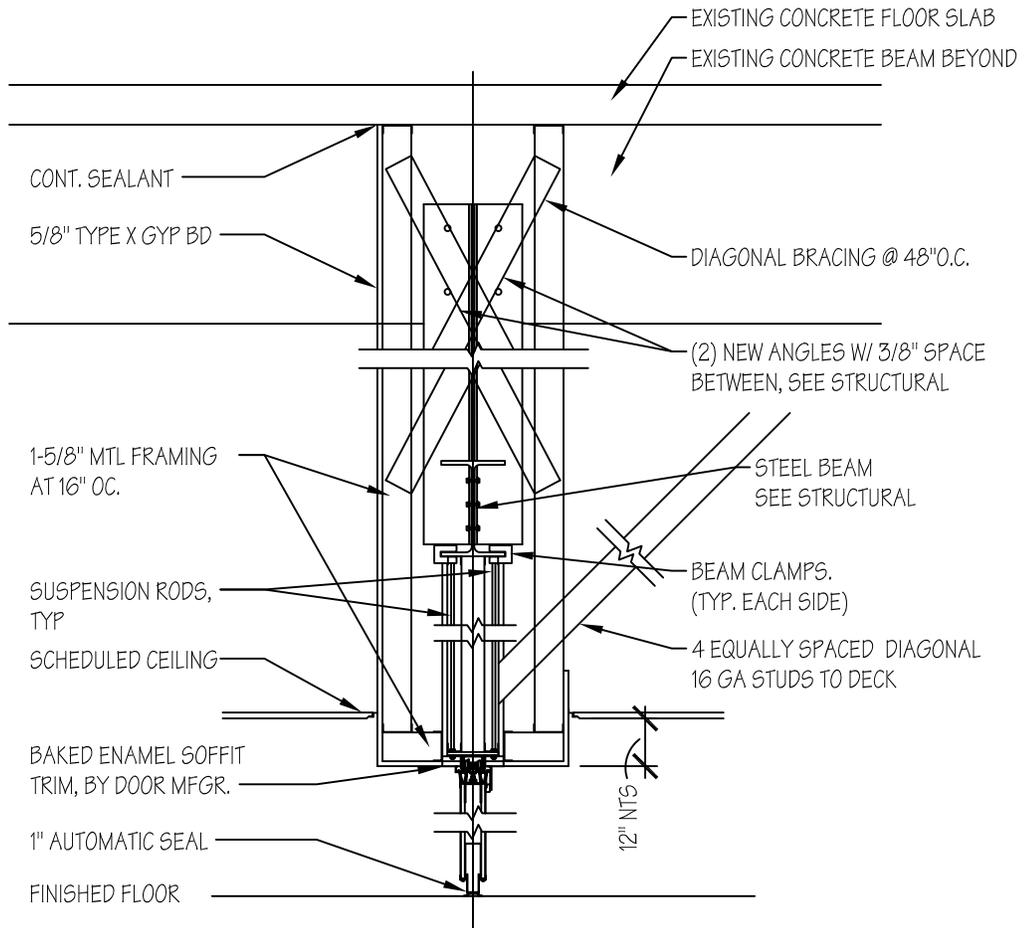
UTAH VALLEY UNIVERSITY  
WEST CAMPUS  
INTERIOR IMPROVEMENTS

UTAH VALLEY UNIVERSITY  
987 SOUTH GENEVA ROAD  
OREM, UTAH 84058

MARK	DATE	DESCRIPTION
△	03-15-11	STRUCT REVIEW COMMENTS

DATE: 22 FEBRUARY 2011  
DFCM PROJECT NO: 10295790  
HFSA PROJECT NO: 1038.01  
CAD DWG FILE NO:  
DRAWN BY: RLS  
CHECKED BY: BWS  
DESIGNED BY: BWS  
DWG TYPE: ARCHITECTURAL

ARCHITECTURAL PHASE:  
CONSTRUCTION DOCUMENTS  
SHEET TITLE:  
**WALL & MISC. DETAILS**  
**AE502**  
SHEET 21 OF 25





**BID FORM – REVISED  
PER ADDENDUM NO. 1 DATED APRIL 5, 2011**

NAME OF BIDDER \_\_\_\_\_ DATE \_\_\_\_\_

To the Division of Facilities Construction and Management  
4110 State Office Building  
Salt Lake City, Utah 84114

The undersigned, responsive to the "Notice to Contractors" and in accordance with the "Instructions to Bidders", in compliance with your invitation for bids for the **WEST CAMPUS INTERIOR IMPROVEMENTS – UTAH VALLEY UNIVERSITY – OREM, UTAH – DFCM PROJECT NO. 10295790** and having examined the Contract Documents and the site of the proposed Work and being familiar with all of the conditions surrounding the construction of the proposed Project, including the availability of labor, hereby proposes to furnish all labor, materials and supplies as required for the Work in accordance with the Contract Documents as specified and within the time set forth and at the price stated below. This price is to cover all expenses incurred in performing the Work required under the Contract Documents of which this bid is a part:

I/We acknowledge receipt of the following Addenda: \_\_\_\_\_

**BASE BID:** For all work shown on the Drawings and described in the Specifications and Contract Documents, I/we agree to perform for the sum of:

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)

(In case of discrepancy, written amount shall govern)

**ADDITIVE ALTERNATE NO. 1:** For all work shown on the Drawings and described in the Specifications and Contract Documents for infilling the open bay between grids 13.6 and 13.7 and grids F4 and F5 on the second level, modification of restrooms 129A and 129B, and removal and replacement of the first color ceiling between grids 13.6 and 13.7 and grids F4 and F5, I/we agree to perform for the sum of:

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)

(In case of discrepancy, written amount shall govern)

I/We guarantee that the Work will be Substantially Complete by **August 17, 2011**, should I/we be the successful bidder, and agree to pay liquidated damages in the amount of \$\_\_\_\_\_ per day for each day after expiration of the Contract Time as stated in Article 3 of the Contractor's Agreement.

This bid shall be good for 45 days after bid opening.

Enclosed is a 5% bid bond, as required, in the sum of \_\_\_\_\_

The undersigned Contractor's License Number for Utah is \_\_\_\_\_.

Upon receipt of notice of award of this bid, the undersigned agrees to execute the contract within ten (10) days, unless a shorter time is specified in the Contract Documents, and deliver acceptable Performance and Payment bonds in the prescribed form in the amount of 100% of the Contract Sum for faithful performance of the contract.

The Bid Bond attached, in the amount not less than five percent (5%) of the above bid sum, shall become the property of the Division of Facilities Construction and Management as liquidated damages for delay and additional expense caused thereby in the event that the contract is not executed and/or acceptable 100% Performance and Payment bonds are not delivered within the time set forth.

Type of Organization:

\_\_\_\_\_  
(Corporation, Partnership, Individual, etc.)

Any request and information related to Utah Preference Laws:

\_\_\_\_\_

Respectfully submitted,

\_\_\_\_\_  
Name of Bidder

ADDRESS:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Authorized Signature