



State of Utah

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Department of Administrative Services

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Executive Director

Division of Facilities Construction and Management

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ADDENDUM NO. 2

Date: August 17, 2009

To: Short-Listed Contractors

From: Jim Russell – Project Manager

Reference: Northern Utah County Campus – Mountainland ATC
Utah College of Applied Technology – Lehi, Utah
DFCM Project No. 07039260

Subject: **Addendum No. 2**

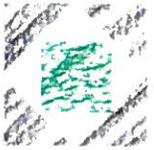
Pages	Addendum Cover Sheet	1 page
	<u>Architect's Addendum No. 2</u>	<u>75 pages</u>
	Total	76 pages

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.

2.1 SCHEDULE CHANGES: No Project Schedule changes.

2.2 GENERAL ITEMS: See attached Architect's Addendum No. 2.



HFS ARCHITECTS

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Addendum No. 2

Project:	Northern Utah County Building	Date:	17 August 2009
Address:	Thanksgiving Point	Project No.:	DFCM 07039260 / HFSA 0813.01
City, State:	Lehi, Utah	Agency:	Mountainland Applied Technology College

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
GENERAL ITEMS		
2-1	General	General contractor shall provide a staff person familiar with LEED certification requirements who dedicates an average of 20 hours per week to coordinating, documenting and assisting in the LEED certification process.
2-2	Clarification	Specification 06415: For purposes of pricing the following categories should be used: HanStone - Level 2, Silestone - Level 3, Zodiac - Level C.
2-3	Question 10400	The subcontractors need to know how many cast aluminum letters are required for the exterior signs. Answer: 144.
2-4	Question 09380	The tile wainscot that goes up the sides of the stairs is clear for the main entrance stairs but somewhat ambiguous for the other stairs. Will the wainscot for the other stair locations go all the way up to the thrid level? Answer: Yes. Clarification: The wainscot is continuous on all the walls in Stair #2 and Stair #3. In addition, the pattern of the tile is to be horizontal (similar to Interior Elevation A3/AE415).
2-5	Question AS104	Will the handicap parking stalls require pre-cast wheel stops? Answer: No.
2-6	Question AS104	Truncated domes: The typical size for these embeds are 2'x4' although I believe they can be ordered in larger sizes. Is a 2x4 insert acceptable for each location? Answer: No. Or does it need to cover the entire 6x6 ramp as drawn? Answer: Yes.
2-7	Question AE312	MOWSTRIP: The mowstrip shown on the wall sections appears to be 18" wide while the landscape sheets references 1/L3.1 which is only 12" wide. Also, L1.1

Item No.	Section or Sheet No.	Description
	AE313 L3.1	appears to be the only sheet that shows where the mowstrip exists against the building and that page doesn't have it everywhere (that there isn't already concrete sidewalk). Is it the intent that if there is not sidewalk there would be a mowstrip so that a concrete apron exists around the entire perimeter? Answer: The mowstrip is 12" wide and should exist around the entire perimeter of the building.
2-8	Question AS102	Please confirm the thickness of all sidewalks is 6". I don't see any labels but the expansion and control joints, which I assume are sidewalk details, say 6". Answer: All sidewalks are to be 5".
2-9	Question 12492	Which windows will receive horizontal louver blinds? Answer: All exterior punched window openings.
2-10	Question 07140 & Add #1	Does spec section 7145 (addendum #1) replace section 7140 on the table of contents? Answer: Yes, the section was missing in specifications.
2-11	Question 07185	Is this spec section for the flooring type N, "Epoxy Traffic Membrane"? Answer: Yes.
2-12	Question Vapor Barriers	Spec 7260 (weather barriers 2.01 A) talks about an air barrier mechanically fastened to the sheathing yet no barrier is shown on the section details of the plan. Please clarify if a vapor barrier needs to be installed over the exterior sheathing of the building. Answer: The wall sections show an air barrier on the outside and a vapor barrier on the inside.
2-13	Question D6/AE701	Will the concrete curbs for lockers require any reinforcement or doweling? Answer: No.
2-14	Question Door Types	Wood door types B&C call for 1/4" tempered and fire rated glass but there is no door type B or C on the door schedule. Answer: Delete door types 'B' and 'C'.
2-15	Question Storefront AE501	Details show both front-glazed and center-glazed systems. Is the storefront to be front or center-glazed? Answer: See specification section 08410 page 3 for the storefront system.
2-16	Question 10500	Lockers: This spec section is for metal lockers and the details D6/AE701 indicate that the lockers will be provided by the millwork contractors. Should this spec be disregarded? Answer: Clarification: The lockers are to be prefabricated metal lockers with a sloped top.
2-17	Question Alternate #1	Are the MDF / PLAM shelves (shown on A4&A6/AE313) part of the base bid or Alternate #1? Also, the location of these is a bit hard to determine. Is it only at the dormer windows? Answer: Alternate #1.

Item No.	Section or Sheet No.	Description
2-18	Question Snow Guards	B6 on AE120A shows the layout for snow guards down the face of the roof, In trying to determine the spacing down the length of the roof, it looks like the spec is somewhat contradictory. 7411-3 talks about fours rows about every 11 feet. I assume that every 11 feet we are to provide the spacing shown on B6/AE120A of the plans....please confirm that the plan detail is right and the specs 4 rows is wrong. Answer: Delete detail B6/AE102A, follow the spec.
2-19	Question Cupola EIFS	The elevations (AE201) do not make it clear that the cupola curb is covered in EIFS. Detail D2/AE520 (section) shows the EIFS--some bidders may assume that the lower portion (shown on the elevation) is part of the pre-manufactured cupola provided by the mechanical contractors and miss the EIFS. Answer: The detail is correct. Add EIFS hatch pattern to the base on the elevation drawing.
2-20	Question Flooring Schedule	The flooring schedule has created some confusion in that the designating letters don't line up with the correct material description as you get further down the list. It would be a good idea to clear this up. Answer: See attached revised 'FINISH SCHEDULE'.
2-21	Question Wall Types	There are a lot of missing wall types (lacking designation) on the plans.... Answer: See description above Wall Type 2 in the 'PARTITION LEGEND'. 'ALL WALLS WITHOUT A LEGEND MARK SHALL BE 3-5/8" METAL STUDS AT 16" O.C. WITH 5/8" GYPSUM BOARD BOTH SIDES TO 6" ABOVE CEILING, BRACE STUDS TO STRUCTURE ABOVE AT 4'-0" O.C. UNLESS OTHERWISE NOTED.'
2-22	Question 09512	After doing a complete ceiling takeoff I'm not seeing any "adhesive applied acoustic ceilings". In addition, it isn't on the ceiling schedule. Does this spec not apply? Answer: The following rooms are to receive adhered 12x12 acoustic tile: B112, B114, B204, B202, B311, B308.
2-23	Question 09850	Acoustic wall panels: Section D3/AE501 shows wall panel on the south wall of the clearstory entrance area (lobby B102) Is this the only location or does this wrap around all four sides at this elevation? Answer: Yes, provide 20 3'-0"x3'-0" acoustic panels for this room. Any other locations that we have wall paneling? Answer: Yes, in the Rotunda B150. The acoustic panels for this room are shown on Interior Elevations A3 and C3 on sheet AE415. Are the 3' squares show on A3&C3/AE415 Acoustic wall panels? They aren' t labeled. Answer: Yes.
2-24	Question 09380-2	Doesn't say anything about 12" x 12" size tile that is referenced on the finish schedule...and the type is listed as "Marble Polished"? Isn't it travertine? Answer: The 'FINISH SCHEDULE' references 12"x12" Travertine. Add the following after at the end of Section 2.01 Stone Tile:

Item No.	Section or Sheet No.	Description
		<p>2. 12"x12" Daltile Crema Martil tumbled.</p> <p>3. TS27 Daltile Coral Checkerboard liner, 2 bands.</p>
2-25	Question 08334	<p>Coiling Doors: The Spec and Detail C2/AE411 both note that this is an aluminum door while the door schedule says that it is stainless steel.....</p> <p>Answer: Revised the door and frame material to be aluminum.</p>
2-26	Question Door Sched.	<p>Door C114 is lacking the door material and the frame finish.</p> <p>Answer: The door is solid core wood and the frame is to be painted.</p>
2-27	Question Door Sched.	<p>What type of door is A126?</p> <p>Answer: Solid core wood.</p>
2-28	Question ADD #1 09440	<p>FYI: The addendum states that the installer shall be a member of the NTMA. According to the NTMA website, Finn wall is the only subcontractor that meets this qualification in Utah. We have invited out-of-state contractors, but if none of them bid this could be a single-source bid. Pro-tech, another qualified provider in Utah, says that in the past they negotiated having the Terrazzo Manufacturer onsite during the installation to satisfy the requirement. It might be a good idea to provide an alternative to the NTMA qualification.....or be very clear that this requirement will be strictly adhered to as all GC's will get non-NTMA bids and several will probably use them.</p> <p>Answer: See revisions to this specification section in this addendum.</p>
2-29	Question Exterior	<p>Will the exterior CMU require any sealers?</p> <p>Answer: There is no exterior CMU. The exterior materials include architectural concrete, brick, stone, EIFS, and precast concrete. The architectural concrete walls are at the loading dock, patio, generator enclosure and cooling tower enclosure.</p>
2-30	Question 05400	<p>Will Engineering be required for the exterior stud framing?</p> <p>Answer: No.</p>
2-31	Question 05400	<p>From a sub: 05400 3.01 B&C says to connect studs to track using "clip and tie method." We aren't sure what this is, and are planning on using screws just like we do on every other job. Is this acceptable.</p> <p>Answer: Yes.</p>
2-32	Question Painting	<p>It appears that all walls and door frames are painted the same (one) color....no accenting?</p> <p>Answer: Yes. The door frames and interior hollow metal window frames will be an accent color. In addition, rooms A112, A119, A114, B150, B101, B102, B151, C105, A101 (Between grids E.8-C), B257, B238, and B241 are to receive deep tone color paint.</p>
2-33	Question SB101A SB101B SB101C	<p>Freezer Recess & 4" Insulation missing from structural drawings. Concrete bidders will miss this if it is not shown on the structural sheets. Reference: AE101C & B2/AE502. At minimum, please reference the architectural details.</p> <p>Answer: See 'FOOTING & FOUNDATION PLAN NOTE' #3 - directing the</p>

Item No.	Section or Sheet No.	Description
		<i>contractor to refer to ARCHITECTURAL PLANS for depressions (recesses) and slopes to drains.</i>
SPECIFICATION ITEMS		
2-34	01354	Add the attached section 'LEED-NC 2009 CREDIT SUMMARY'.
2-35	01355	Add the attached section 'LEED CERTIFICATION PROCEDURES'.
2-36	01356	Add the attached section 'LEED SUBMITTAL FORMS'.
2-37	01357	Add the attached section 'LEED MATERIAL COST SUMMARY FORM'.
2-38	01358	Add the attached section 'LEED WOOD-CONTAINING PRODUCT LIST'.
2-39	01359	Add the attached section 'LEED METAL-CONTAINING PRODUCT LIST'.
2-40	01360	Add the attached section 'LEED NEW PRODUCT CONTENT FORM'.
2-41	01361	Add the attached section 'LEED NEW PRODUCT SOURCE FORM'.
2-42	01363	Add the attached section 'LEED PROHIBITED CONTENT INSTALLER CERTIFICATION'.
2-43	01500	Section 1.08 Security: Delete reference to Section 01565.
2-44	01500	Section 1.10 Waste Removal: Add the following: D. See section 01732 - Waste Management for additional requirements.
2-45	01575	Add the attached section 'TEMPORARY EROSION AND SEDIMENTATION CONTROL'.
2-46	01732	Add the attached section 'WASTE MANAGEMENT'.
2-47	05520	Section 2.01 D. 1: Change diameter of top rails and wall rails from 1.5" to 1.9" O.D.
2-48	06200	Section 1.04: Add the following: B. LEED Report: Submit for wood products made from sustainably harvested wood as specified in Section 01355.
2-49	06410	Section 1.04: Add the following. F. LEED Report: Submit for wood products made from sustainably harvested wood as specified in Section 01355.
2-50	06410	Section 1.05 A. and B: Change 'custom quality' to 'premium quality'.
2-51	06410	Section 2.03 A. 1: Change 'plain sliced' to 'rift cut'.
2-52	06410	Section 2.06 C: Change 'U-shaped wire pull...' to 'EK-650/S pulls by Sugatsuni 800-

Item No.	Section or Sheet No.	Description
		562-5267.
2-53	07550	Section 2.01 A: Delete paragraph 2.
2-54	07550	Section 2.03 A. 2: Replace with the following: 2. Special Reflective Granules (to provide a SRI - solar reflective index - of 78 or higher) Faced Modified Bitumen Finish Ply. This is required for the entire low slope roof area.
2-55	08305	Section 2.02 A. 3: Revise finish to read 'MEDIUM BRONZE'.
2-56	08334	Section 1.01: Add the following: C. Fire rated coiling counter doors and operating hardware.
2-57	08334	Section 2.02 A. 3: Delete the reference to 'PERFORATED'.
2-58	08334	Section 2.02: Add the following: B. Coiling Counter Doors, Fire-Rated: steel slat curtain. 1. Mounting: Interior face mounted. 2. Fire Rating: 3/4-hour; comply with NFPA 80. a. Provide product listed and labeled by UL or ITS (Warnock Hersey) as suitable for the purpose specified and indicated. 3. Nominal Slat Size: 1-1/4" wide. 4. Slat Profile: Flat. 5. Finish: Factory powder coated. 6. Color: As selected from manufacturer's standard colors. 7. Guides: Stainless steel #4 finish. 8. Hood: Manufacturer's standard; primed steel. 9. Fire Release Mechanism: Electric motor closed, actuated by fire alarm system. 10. Non-Fire Operation: Electric motor.
2-59	08410	Section 2.02 A. 2: Revise color to 'MEDIUM BRONZE'.
2-60	08710	Add the attached 'REVISIONS TO HARDWARE SCHEDULE'.
2-61	08710	Section 2.01: Delete paragraph C and all sub-paragraphs.
2-62	08710	Section 2.01 E. 1: Replace 'YALE' with 'SARGENT'.
2-63	08710	Section 2.01 F. 1: Replace 'CORBIN RUSSWIN' with 'YALE'.
2-64	08710	Section 2.01 H. 1: Replace 'CORBIN RUSSWIN' with 'YALE'.
2-65	08800	Section 2.01 B: Delete paragraph B and all sub-paragraphs.
2-66	08800	Section 2.04 B. 2: Add the following: Bent corners acceptable.

Item No.	Section or Sheet No.	Description
2-67	09300	Section 1.03: Add the following: D. LEED Submittal: 1. Documentation of recycled content and location of manufacturer.
2-68	09300	Section 2.01 D: Replace with the following: D. Quarry Tile: Daltile Suretread, ANSI A137.1, and as follows: 1. Moisture Absorption: 0.5 to 3.0 percent. 2. Size and Shape: 6 inch square. 3. Thickness: 3/8 inch. 4. Edges: Square. 5. Surface Finish: Unglazed, textured. 6. Colors: Gray and Golden Bronze.
2-69	09300	Section 2.02 B: Change width of thresholds from 2" to 4".
2-70	09300	Part 3: Add the following after Section 3.03: 3.04: INSTALLATION - FLOORS -THIN-SET METHODS (Suspended Concrete Floors) A. Over interior concrete substrates, install in accordance with TCA Handbook Method F122, with waterproof membrane and latex-portand cement grout. 3.05 INSTALLATION - FLOORS - MORTAR BED METHODS (Concrete Slab on Grade) A. Over interior concrete substrates, install in accordance with TCA Handboo, Method F111, with cleavage membrane, unless otherwise noted. 1. Where epoxy or furan grout is indicated, but not expoxy or furan bond coat, install in accordance with TCA Handbook Method F114, with cleavage membrane. B. Cleavage Membrane: Lap edges and ends. C. Mortar Bed Thickness: Varies depending on slope and tile thickness.
2-71	09440	Section 1.01 A: Revise to read: A. Epoxy or Polyacrylate / Portland Cement matrix terrazzo floor and border.
2-72	09440	Delete Addendum #1 item regarding membership in NTMA.
2-73	09440	Delete Addendum #1 item allowing aluminum divider strips.
2-74	09440	Section 3.03: Add the following: D. If polyacrylate / portland cement is used, reduce divider strip spacing shown on drawings by half.
2-75	09685	Section 1.03: Add the following: H. LEED Report: Submit data documenting VOC content of carpet tile and adhesives; current copy of CRI Approved Products Listing is acceptable.
2-76	09685	Section 2.01: Add the following: B. Accent Border Carpet Tile: Shaw Simplicity 59344, color 40760 Atmosfera.
2-77	09685	Section 2.01: Add the following:

Item No.	Section or Sheet No.	Description
		C. Walk Off Carpet Tile: Lees DD763, Step Up, color 508 Mineral.
2-78	10260	Clarification: Rooms B154, B155, C102, C117, C118, C114 to receive full height corner guards. Wall ends to receive U-shaped corner guards.
2-79	10800	Add the attached TOILET ACCESSORY SCHEDULE to the end of the section.
2-80	11131	Section 2.02 B.2.a: Change the screen dimension to 72" w x 4-1/2" H (HDTV).
2-81	11131	Section 2.02 B.2: Add the following: b. Acceptable product: Draper premier or equal approved mfg."
2-82	11131	Section 2.02 E.4 Add the following: Mounting: "Provide stand off brackets where screens are located in front of white boards."
2-83	11131	Section 2.02 F: Delete the following: "No concealed in ceiling screen cases."

DRAWING ITEMS

2-84	All Plan Sheets	Replace the 'FINISH SCHEDULE' with the attached revised 'FINISH SCHEDULE'.
2-85	All Plan Sheets	Add the attached 'ROOF DRAIN CHASE SCHEDULE'.
2-86	Clarification	Add the attached detail 'D1 - CONCRETE JOINT & TIE ELEV. DETAIL'.
2-87	Clarification	Add the attached detail 'E1 - TERRAZZO PATTERN DETAIL'.
2-88	Clarification	Add the attached detail 'B2 - FIRE PROTECTION @ SHAFT BEAMS'.
2-89	Clarification	Add the attached detail 'D3 - STAIR DETAIL'.
2-90	Clarification	Add the attached detail 'E3 - STAIR DETAIL'.
2-91	Clarification	Add the attached detail 'D1 - SLIDING GLASS DOOR DETAIL JAMB'.
2-92	Clarification	Add the attached detail 'E1 - SLIDING GLASS DOOR DETAIL HEAD'.
2-93	AS102	Detail A2: Add the following note: 'PROVIDE 28 ADDITIONAL SIGNS (IN ADDITION TO THOSE REQUIRED FOR ADA), 14 WILL HAVE TEXT RESERVING STALLS FOR "LOW-EMITTING AND FUEL EFFICIENT VEHICLES" AND 14 WILL HAVE TEXT RESERVING STALLS FOR "CAR / VAN POOLS".'
2-94	AS102	Detail B1: Add the following note: 'PROVIDE 2 #4 BARS CONTINUOUS IN FOOTING. PROVIDE #4 BARS AT 16" O.C. EACH WAY IN WALL. PROVIDE #4 DOWELS AT 16" O.C. BETWEEN FOOTING AND WALL'.
2-95	AE101A	The windows between Testing Room A105 and Office A103 are WINDOW TYPE 7.

Item No.	Section or Sheet No.	Description
2-96	AE101B	Change door B128C hardware group from '10' to '1'.
2-97	AE101B	Change door B153A hardware group from '17' to '3'.
2-98	AE101B	Room B122 Storage Room: All walls around this room are to be 1-HOUR FIRE RATED - WALL TYPE 6.
2-99	AE101B	Room B162 Elevator Equipment Room: Add fire extinguisher and bracket.
2-100	AE102A	Room A201: Change floor finish reference from 'C' to 'I'.
2-101	AE102B	Rooms A201 to grid C, B233, C201 to grid 3: Change floor finish reference from 'C' to 'I'.
2-102	AE102C	Rooms C201 and C223: Change floor finish reference from 'C' to 'I'.
2-103	AE103A 01	Room A306: Change floor finish reference from 'C' to 'I' with the accent border offset 1'-6" from grid lines or center-line of wall (similar to first floor).
2-104	AE103B 01	Rooms A306, B301, C305: Change floor finish reference from 'C' to 'I' with the accent border offset 1'-6" from grid lines or center-line of wall (similar to first floor).
2-105	AE103B 01	Office B316: Add sidelight at door B316.
2-106	AE103C 01	Room C305: Change floor finish reference from 'C' to 'I' with the accent border offset 1'-6" from grid lines or center-line of wall (similar to first floor).
2-107	AE103C	Stair #3: Revise the stairs as shown on the attached drawing '3 RD FLOOR STAIR #3'.
2-108	AE103C 01	Stair #3: Revise the stairs as shown on the attached drawing '3 RD FLOOR STAIR #3'.
2-109	AE502	Details D6 and E6: Add the attached detail 'E5 CORNER COLUMN DETAIL' referenced as E5/A512.
2-110	AE504	Detail E6: Replace with the attached detail 'E6 - PRIVATE OFFICE SIGN'.
2-111	AE505	Add the attached drawing: AE505 Sign Schedule.
2-112	AE511	Detail C6: Replace with the attached detail 'C6 - ELEVATOR DETAIL'.
2-113	AE601	Door Schedule: Change door C109 to C110.
2-114	AE601	Door Schedule: Door A126 is door type 'A' and frame type '1'.
2-115	AE601	Door Schedule: Doors B128A, B128B and B128D: Revise Door and Frame finish from stainless steel to aluminum.
2-116	AE601	Door Schedule: Add the following to Door C114: Door Material - SOLID CORE

Item No.	Section or Sheet No.	Description
		WOOD, Frame Finish - PAINTED.
2-117	AE601	Door Schedule: Add the following to Door A126: Door Material - SOLID CORE WOOD.
2-118	AE601	Door Schedule: Change door C125 to C101.
2-119	AE601	Door Schedule: Change door A310 to A308.
2-120	AE601	Door A101 - Delete 6'-6" door height and replace with 8'-0".
2-121	AE601	Door A111 - Delete 6'-6" door height and replace with 8'-0".
2-122	AE601	Door A122A - Delete fire rating "60 min and replace with "45 min".
2-123	AE601	Door A122B - Delete fire rating "60 min and replace with "45 min".
2-124	AE601	Door A124 - Replace Frame jamb detail from C3/AE602 to D2/AE602.
2-125	AE601	Door A125 - Add Frame head and jamb detail D2/AE602 and add threshold A2/AE602.
2-126	AE601	Door A126 - Add door type "A" and Frame type "1" and add frame head and jamb detail D2/AE602.
2-127	AE601	Door B107 - Replace door frame type from "7" to door frame type "1" and add door jamb detail D2/AE602.
2-128	AE601	Door B112 - Add threshold detail A2/AE602.
2-129	AE601	Door B114 - Add threshold detail A2/AE602.
2-130	AE601	Door B122 - Add fire rating "45 min."
2-131	AE601	Door B129 - Add fire rating "45 min."
2-132	AE601	Door B150A - Replace door frame head detail from B6/AE602 to "Per Manf."
2-133	AE601	Door B150C - Replace door frame head detail from B6/AE602 to "Per Manf."
2-134	AE601	Door B151A - Replace door head detail from A3/AE503 to E1/AE502 and replace door jamb detail from D1/AE503 to D1/AE502 and add threshold C1/AE502.
2-135	AE601	Door B153A - Replace door jamb detail from C3/AE602 to D2/AE602.
2-136	AE601	Door B153B - Add threshold detail A2/AE602.
2-137	AE601	Door B153C - Add threshold detail A2/AE602.

Item No.	Section or Sheet No.	Description
2-138	AE601	Door B155 - Add threshold detail A2/AE602.
2-139	AE601	Door B156A - Add fire rating "45 min."
2-140	AE601	Door B156B - Add fire rating "45 min."
2-141	AE601	Door B159A - Replace door head detail from A3/AE503 to E1/AE502 and replace door jamb detail from D1/AE503 to D1/AE502 and add threshold C1/AE502.
2-142	AE601	Door C102A - Add threshold detail A2/AE602.
2-143	AE601	Door C106B - Replace Door material from HM to Alum; replace frame material from HM to Alum; Replace frame finish from painted to alum; and add door jamb detail D3/AE602.
2-144	AE601	Door C109 - Add frame head detail C3/AE602 and replace door frame jamb detail from C3/AE602 to D3/AE602.
2-145	AE601	Door C112 - Add threshold detail A2/AE602.
2-146	AE601	Door C114 - Add door material SCWD; Replace frame type "5" to frame type "1"; Add frame finish "Painted".
2-147	AE601	Door C118 - Add fire rating "45 min".
2-148	AE601	Door C120 - Add threshold detail A2/AE602 and delete fire rating "60 min."
2-149	AE601	Door A202 - Delete door jamb reference "D2/AE602".
2-150	AE601	Door A213 - Add fire rating "45 min".
2-151	AE601	Door A218 - Add fire rating "45 min".
2-152	AE601	Door A221 - Add threshold detail A3/AE602.
2-153	AE601	Door B202 - Add threshold detail A3/AE602.
2-154	AE601	Door B204 - Add threshold detail A3/AE602.
2-155	AE601	Door B208B - Delete door frame jamb detail D2/AE503; add threshold detail D2/AE503.
2-156	AE601	Door B211 - Switch door head and frame detail references, Head detail should read "C3/AE602" and jamb detail should read "D3/AE602".
2-157	AE601	Door B213 - Switch door head and frame detail references, Head detail should read "C3/AE602" and jamb detail should read "D3/AE602".
2-158	AE601	Door B223 - Add fire rating "45 min".

Item No.	Section or Sheet No.	Description
2-159	AE601	Door B225 - Add threshold detail A3/AE602.
2-160	AE601	Door B238B - Delete door jamb reference "D2/AE602".
2-161	AE601	Door B255 - Add fire rating "45 min".
2-162	AE601	Door B256 - Add fire rating "45 min".
2-163	AE602	Door B258 - Replace door frame type "5" to frame type "1".
2-164	AE601	Door C204 - Add threshold detail A3/AE602.
2-165	AE601	Door C205 - Add threshold detail A3/AE602.
2-166	AE601	Door C219 - Add fire rating "45 min".
2-167	AE601	Door C226 - Add fire rating "45 min".
2-168	AE601	Door C229 - Add fire rating "45 min".
2-169	AE601	Door B305A - Add fire rating "45 min".
2-170	AE601	Door B305B - Add fire rating "45 min".
2-171	AE601	Door A303 - Add fire rating "45 min".
2-172	AE601	Door A305 - Add fire rating "45 min".
2-173	AE601	Door A313 - Replace door frame type "5" to frame type "1".
2-174	AE601	Door B304 - Add fire rating "45 min".
2-175	AE601	Door B306 - Add fire rating "45 min".
2-176	AE601	Door B308 - Add threshold detail A3/AE602.
2-177	AE601	Door B311 - Add threshold detail A3/AE602.
2-178	AE601	Door B315 - Replace door frame type "5" to frame type "1".
2-179	AE601	Door C306 - Add fire rating "45 min".
2-180	AE601	Door C308 - Add fire rating "45 min".
2-181	AE701	Detail B4: Replace with the attached revised detail.
2-182	AE701	Detail B5: Replace with the attached revised detail.
2-183	AE702	Details A3, A4, A5 and D4: Add LED lighting under counter at front of deck, see

Item No.	Section or Sheet No.	Description
		electrical drawings for more detail.
2-184	AE702	Details A6 and B3: Change reference 'QUARTZ LIGHTING' to 'LED LIGHTING'.

PRIOR APPROVALS

2-185	08800	PPG Atlantica for glazing.
2-186	10500	ASI Storage Solutions for metal lockers.
2-187	08410	Arcadia Inc. - Nevada for 2"x4-1/2" thermally broken center glazed system.
2-188	11400	Custom Stainless Fabrication for kitchen fabricators.
2-189	08710	Ives, for door hardware - hinges, trim, protection plates, stops and holders.
2-190	08211	Oskosh for wood doors.
2-191	08211	VT Industries for wood doors.
2-192	08211	Graham for wood doors.
2-193	06415	Cambria for engineered quartz countertops and window sills.
2-194	10270	ASM Kingspan for raised access flooring.
2-195	12492	Bali for horizontal louver blinds.
2-196	13010	Beehive Fire Sprinklers for fire spinklers.
2-197	07411	MBCI Battenlok HS for metal roof panels.

ATTACHMENTS

2-198	2 pages	Structural Revisions Addendum #2.
2-199	2 pages	Landscape Revisions Addendum #2.
2-200	3 pages	Mechanical Revisions Addendum #2.
2-201	2 pages	Electrical Revisions Addendum #2.
2-202	6 pages	Specification Section 01354
2-203	4 pages	Specification Section 01355
2-204	2 pages	Specification Section 01356
2-205	1 page	Specification Section 01357
2-206	2 pages	Specification Section 01358
2-207	2 pages	Specification Section 01359
2-208	2 pages	Specification Section 01360
2-209	2 pages	Specification Section 01361
2-210	2 pages	Specification Section 01363
2-211	5 pages	Specification Section 01575
2-212	5 pages	Specification Section 01732
2-213	1 page	Hardware Schedule Revisions
2-214	2 pages	Toilet Accessory Schedule
2-215	1 page	Finish Schedule
2-216	1 page	Roof Drain Chase Schedule
2-217	15 pages	Architectural Revisions Addendum #2

Mountainland Applied Technology Center
Structural Revisions
Addendum #2

August 17, 2009

Sheet SF501

1. See Supplemental Drawing SSD-02 for Detail A3 brick ledger angle elevation revised to match Architectural Drawings.
2. Revise brick ledger angle in Details A4, A5 and B5 to match ledger angle shown in Supplemental Drawing SSD-02.

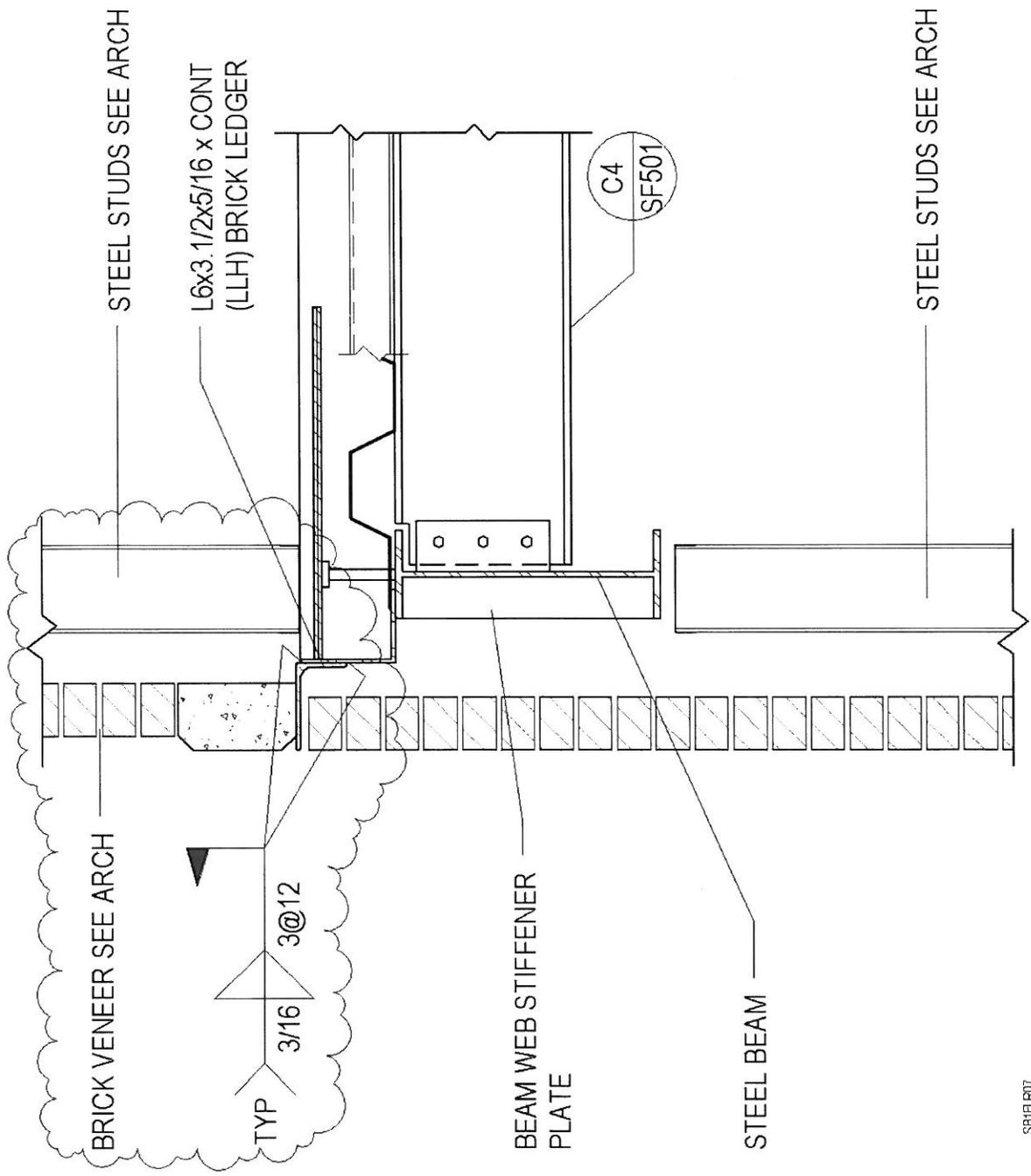
Sheet SF502

1. Revise brick ledger angle in Details C1 and D3 to match ledger angle shown in Supplemental Drawing SSD-02.

P: 801.486.3883
F: 801.485.0911



1515 South 1100 East
Salt Lake City, Utah 84105
www.reaveley.com

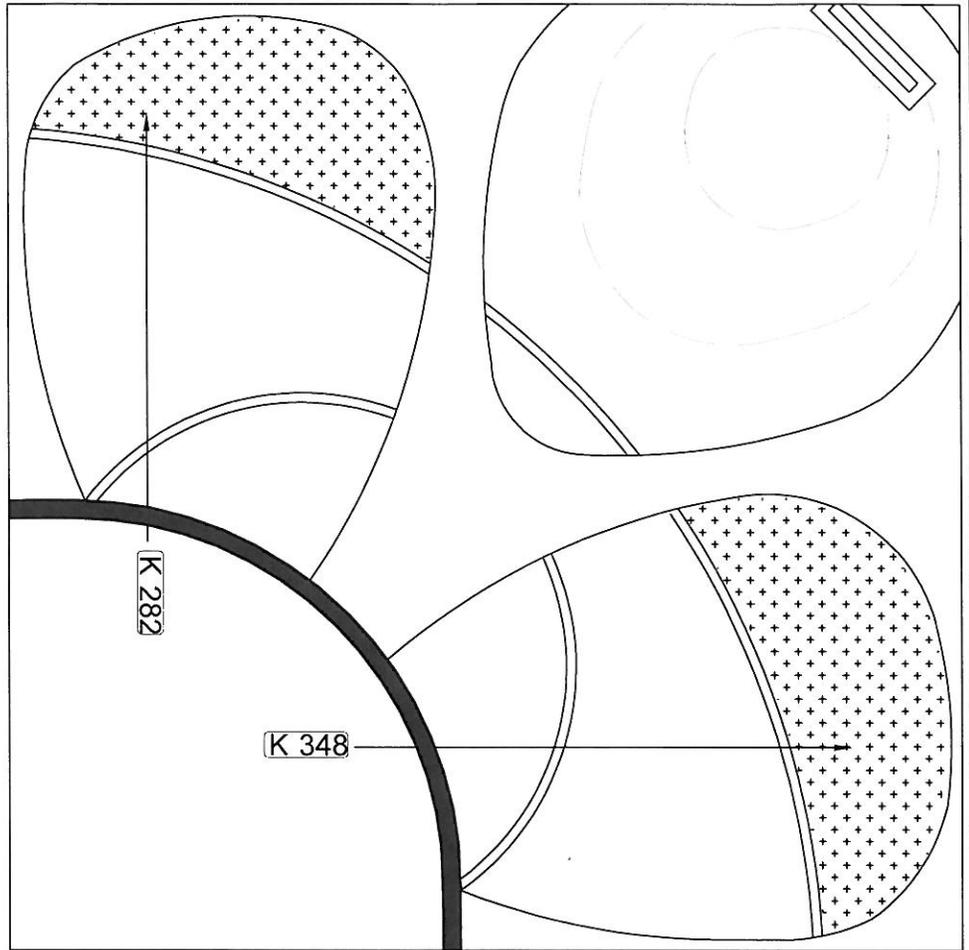


SB1FLR07

A3 TYPICAL SLAB EDGE DETAIL AT PERIMETER

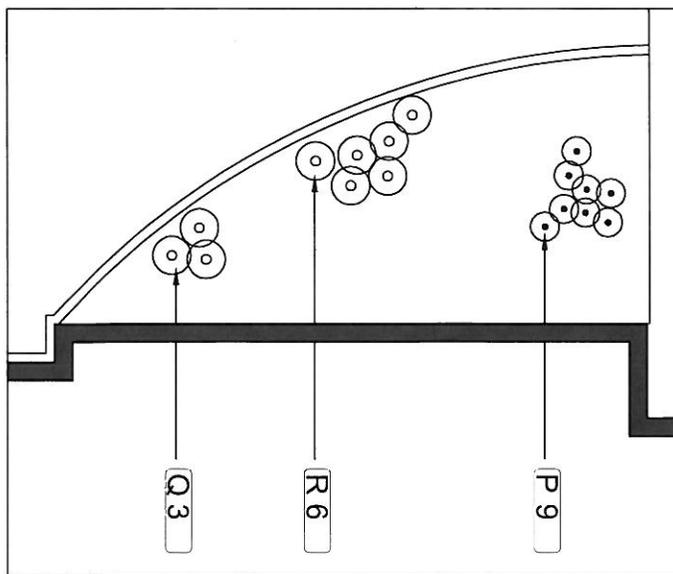
NO SCALE

SF501



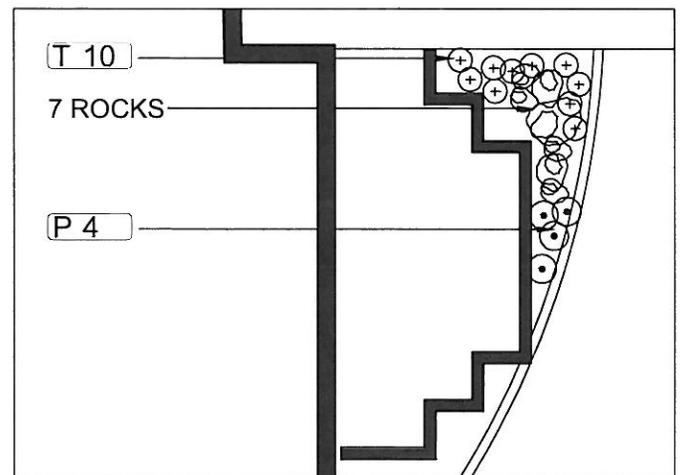
PARTIAL PLANTING PLAN

SCALE: 1" = 20'



PARTIAL PLANTING PLAN

SCALE: 1" = 20'



PARTIAL PLANTING PLAN

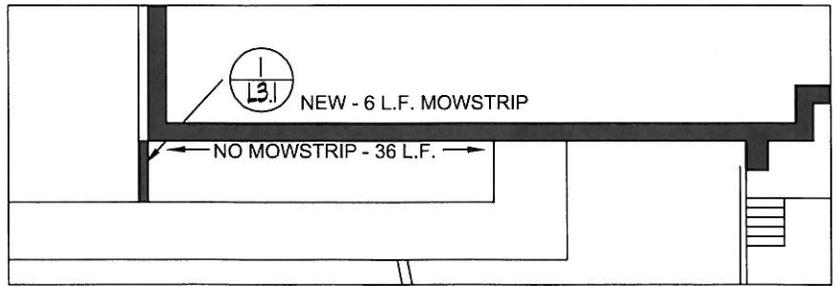
SCALE: 1" = 20'

NORTHERN UTAH
COUNTY BUILDING
MOUNTAINLAND APPLIED
TECHNOLOGY COLLEGE

UTAH COLLEGE
OF APPLIED
TECHNOLOGY
2300 WEST & ASHTON BLVD.
LEHI, UT 84043

17 AUG 09
ADDENDUM #2
L1.1A

SHEET 1 of 2



NEW MOWSTRIP
SCALE: 1" = 20'

PLANTING SCHEDULE

BASE	ALT	SYMBOL	DESCRIPTION
25			25 - Acer p. columnare Columnar Maple 2" CAL. B&B
20			20 - Fraxinus p. 'patmore' Patmore Ash 2" CAL. B&B
42	21		63 - Picea f. glauca 'Vanderwolfe Pyramid' - Vanderwolfe Pine 6' H B&B
14			14 - Pinus nigra compacta - Wells Green Temple 8' H B&B
3	12		15 - Platanus acerifolia London Planetree 3" CAL. B&B
26	9		35 - Pyrus c. 'bradford' Bradford Flowering Pear 3" CAL. B&B
9			9 - Quercus pyramidalis Pyramidal Oak 3" CAL. B&B
3	5		8 - Ulmus parvifolia Lace Bark Elm 2" CAL. B&B
24			24 - Zelkova s. 'Green Vase' Green Vase Zelkova 2" CAL. B&B

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17 AUG 09
ADDENDUM #2
L1.1A
SHEET 2 of 2

ADDENDUM

DATE: August 17, 2009
PROJECT NO: 8166
PROJECT: Mountainland Applied Technical
College

DIVISION - 15

DRAWINGS

SHEET - MH401

1. Provide 46" x 18" bellmouth connection to front of Air Handler AH-1 and cap for future connection for alternate #01.

SHEET - MP101A

1. Salon, Nail Salon, Pedicure, Aesthetics, Cosmetology, Testing; Install CO2 sensors on wall near the thermostats in breathing zone approximately 5'-6" AFF.

SHEET - MP101B

1. EMT Classroom, Computer Testing, Dining Room, Resource Room; Install CO2 sensors on wall near the thermostats in breathing zone approximately 5'-6" AFF.

SHEET - MP101C

1. Culinary Classroom, Classroom; Install CO2 sensors on wall near the thermostats in breathing zone approximately 5'-6" AFF.

SHEET - MP102A

1. Dental Assist Classroom, Med Assist Classroom, Instruction Lab, Instruction Classroom, Dental Stations, Computer Classroom; Install CO2 sensors on wall near the thermostats in breathing zone approximately 5'-6" AFF.

SHEET - MP102B

1. Physical Therapy Classroom, Pharm tech. Classroom, Instruction Lab, MOA Classroom, MOA, Lab, Conference room, Custom Fit Training, Board room, Classroom; Install CO2 sensors on wall near the thermostats in breathing zone approximately 5'-6" AFF.

SHEET - MP102C

1. Classroom, CDL Classroom, Nursing Classroom, Patient Bed Lab, Nursing Classroom; Install CO2 sensors on wall near the thermostats in breathing zone approximately 5'-6" AFF.

SHEET - MP103A 01

1. Classrooms; Install CO2 sensors on wall near the thermostats in breathing zone approximately 5'-6" AFF.

SHEET - MP103B 01

1. Classrooms; Install CO2 sensors on wall near the thermostats in breathing zone approximately 5'-6" AFF.

SHEET - MP103C 01

1. Classrooms; Install CO2 sensors on wall near the thermostats in breathing zone approximately 5'-6" AFF.

SHEET - P101B

1. Locate the RD and RDO riser for the drains above vestibule B103. in the southwest corner of Resource Room 158.
2. Coordinate the location of the roof drain risers in North Star B144 and Dining Room B151 with the furred spaces. Coordinate with the Architectural Addendum. Also see Addenda 1.

SPECIFICATIONS

SECTION - 13916

1. Add Paragraph 1.2 A.4:
"Sprinkler heads are to be installed in the center of the tiles. Use flexible sprinkler head connections in all areas with ceilings."
2. Add Paragraph 2.1 A.14:
"Flexible fire sprinkler head connections:
 - a. FlexHead Industries
 - b. Easyflex
 - c. Aquaflex
 - d. Victaulic
 - e. Viking Corp.
3. Change Paragraph 2.13 A 1,3:
 1. Type: Flush mounting.
 2. Escutcheon Plate: Round/square.
 3. Finish: Polished chrome."
4. Change Paragraph 3.12 A.3:
"Rooms with Ceilings: Concealed sprinklers- not used"
5. Delete Paragraph 3.12 B.3.
6. Change Paragraph 3.13 C.1:
"Center of tile – in all areas with ceilings."
7. Delete Paragraph 3.13 C.2.

SECTION - 15010

1. Please add the following paragraph as 1.32:

LEED REQUIREMENT

The Contractor is to submit all LEED information needed by the Design Professional to demonstrate that particular credits have been achieved. In particular, credits that depend on knowing the cost and quantity of certain types of products cannot be achieved without obtaining that information from the Contractor. These include renewable content, locally sourced new products, and reused products. In addition, a form is provided for each installer to certify that they have not used adhesives, sealants, and for suppliers and installers to certify they have not used composite wood with prohibited VOC content.

The contractor shall not use adhesives, sealants or other materials which contain products that are LEED prohibited content.

This building is to be a Silver LEED project.

SECTION - 15440

1. Water Closets, WC-1, WC-2 and WC-3: provide Sloan model WES-111 dual flush, flush valve instead of the specified model.
2. Lavatories, L-1 and L-2: Provide 0.5 GPM aerator on faucet

PRIOR APPROVALS

The following manufacturers, trade names and products are allowed to bid on a name brand only basis with the provision that they completely satisfy all and every requirement of the drawings, specifications and all addenda shall conform to the design, quality and standards specified, established and required for the complete and satisfactory installation and performance of the building and all its respective parts.

<u>Item</u>	<u>Manufacturer</u>	<u>Comments</u>
Air Handler	Unitech	Not Approved
Boilers	Gasmaster	Not Approved
Expansion Tanks DET-1 – DET-3	Elbi / Wessels	Approved
Fire Sprinkler Contractor	Fire Services, Inc.	Approved
Grid Drain / P-Trap	EBC	Approved
Grilles & Registers	NCA Metalaire	Approved
Insulation Kit	Plumberex	Approved
Louvers	NCA Metalaire	Approved
Pumps	Flo Fab	Not Approved
Stops and Supplies	EBC	Approved
Underground Ductwork	Schauenburg, Metco, Ventline	Approved
Volume Damper	NCA Metalaire	Approved
Water Closets WC-1 – WC-3	Delany	Not Approved
Water Cooler EWC-1	Acorn Aqua	Approved
Water Heater WH-1 – WH-3	PVI	Not Approved
Water Heaters	Lochinvar	Approved
Water Softener WS-1	Crossroads (Dominador)	Approved

Mountainland ATC Northern Utah County

Electrical Addendum: 2

Issue Date: 8/17/09

Clarifications to the bidders:

CHANGES TO THE DRAWINGS:

SHEET EL101B:

Open Office B136

1. Lighting in this area shall be circuited thru RP1-8 (1HA-8) and controlled with switch in 1H.

Bookstore B159

1. Lighting located at checkout counter shall be type 'Z'.

SHEET EL102

Dental Assist Classroom A212

1. Emergency light fixture shall circuit with emergency fixtures in Hallway A214.

SHEET EP101

Disp/Stor A122

1. Provide fire alarm smoke detector on each side of coiling door on north wall.
2. Revise power connection from 1LB-31 to ELL-17 for coiling door.
3. Provide fire alarm control module for control of coiling door.

SHEET EY101

Disp/Stor A122

1. Provide (2) fire alarm smoke detectors and control module at coiling door. Tie devices into initiating loop.

SHEET EX602

Panel 1HA

1. Revise circuits 19, 21-30 to a 20A-1P spares.

Panel 1LB

1. Revise circuit 31 to a spare.

SHEET EX604

Panel ELL

1. Revise circuits 17 to feed coiling door.

Mountainland ATC Northern Utah County

Electrical Addendum: 2

Issue Date: 8/17/09

PRIOR APPROVAL OF MANUFACTURERS OF ELECTRICAL EQUIPMENT

The following items, trade names, products and manufacturers are approved for bidding. Approval does not relieve the bidder from satisfying the intent of the requirements of drawings, specifications and addenda in every respect. Failure to conform to the design quality and standards specified, established and required may result in later disapproval. If equipment must be disapproved after bidding, supplier shall supply specified equipment at no extra cost to the Owner.

Items are listed generally and specific model number, etc. shall be as submitted. Items submitted but not approved, either did not satisfy the requirements, or showed insufficient data, or arrived after the 8 day deadline established for submittals.

Security Systems
DSX

END OF ELECTRICAL ADDENDUM

SECTION 01354

LEED-NC 2009 CREDIT SUMMARY

PART 1 GENERAL

1.01 PROJECT INFORMATION

- A. Project Name: Northern Utah County Building, Mountainland Applied Technology College.
- B. City: Lehi.
- C. State: Utah.

1.02 DEFINITIONS

- A. LEED Rating System: LEED-NC 2009 edition.
- B. Required: Achievement of this credit is essential for certification of this project.
- C. Preferred: Achievement of this credit would be desirable but is not mandatory.
- D. Not Required: Achievement of this credit is not expected or not possible for this project.

PART 2 CREDIT SUMMARY

2.01 CERTIFICATION TO BE ACHIEVED: Silver, requiring minimum of 50 points.

2.02 SUSTAINABLE SITES (SS): 14 Points To Be Achieved.

- A. SS Prerequisite 1 - Required - No points - Construction Activity Pollution Prevention.
 - 1. During Construction:
 - a. Preventive measures and remediation are specified in Section 01575.
 - b. Dust control and basic surface drainage are specified in Section 01700.
 - c. Preventive measures prescribed by state law will be followed.
- B. SS Credit 1 - Not Required- 1 point - Site Selection.
- C. SS Credit 2 - Not Required - 5 points - Development Density & Community Connectivity.
- D. SS Credit 3 - Not Required - 1 point - Brownfield Redevelopment.
- E. SS Credit 4.1 - Required - 6 points - Alternative Transportation: Public Transportation Access.
 - 1. The project is located on a site that meets the criteria for Option 1, Rail Station Proximity.
- F. SS Credit 4.2 - Not Required - 1 point - Alternative Transportation: Bicycle Storage & Changing Rooms.
- G. SS Credit 4.3 - Required - 3 points - Alternative Transportation: Low-Emitting & Fuel-Efficient Vehicles.
 - 1. Preferred parking spaces have been provided, in the quantity required.
- H. SS Credit 4.4 - Required - 2 points - Alternative Transportation: Parking Capacity.
 - 1. Parking space is sized to meet this requirement.
 - 2. Preferred parking spaces have been provided, in the quantity required, without adding new parking.
- I. SS Credit 5.1 - Not Required - 1 point - Site Development: Protect or Restore Habitat.
- J. SS Credit 5.2 - Required - 1 point - Site Development: Maximize Open Space.
 - 1. The building footprint and open space are designed to meet this requirement.
- K. SS Credit 6.1 - Not Required - 1 point - Stormwater Design: Quantity Control.
- L. SS Credit 6.2 - Not Required - 1 point - Stormwater Design: Quality Control.

- M. SS Credit 7.1 - Not Required - 1 point - Heat Island Effect: Non-Roof.
- N. SS Credit 7.2 - Required - 1 point - Heat Island Effect: Roof.
 - 1. The roofing design reduces thermal gradient differences by:
 - a. Using high reflectance and high emissivity roofing for at least 75 percent of roof area.
 - 1) White thermoplastic sheet roofing meeting the requirements is specified in Section 075430.
- O. SS Credit 8 - Required - 1 point - Light Pollution Reduction.
 - 1. No modifications to existing building are required.

2.03 WATER EFFICIENCY (WE): 6 Points To Be Achieved.

- A. WE Prerequisite 1 - Required - No points - Water Use Reduction, 20% Reduction.
- B. WE Credit 1.1 - Required - 2 points - Water Efficient Landscaping: Reduce by 50%.
- C. WE Credit 1.2 - Required - 2 points - Water Efficient Landscaping: No Potable Use or No Irrigation.
 - 1. Only non-potable water (municipal irrigation water) is used for irrigation:
 - a. Plants that don't require much irrigation are specified in Section 02930.
- D. WE Credit 2 - Not Required - 2 points - Innovative Wastewater Technologies.
- E. WE Credit 3.1 - Required - 2 points - Water Use Reduction, 30% Reduction.
 - 1. Appropriate high efficiency and/or waterless fixtures are specified in Section 15400.
- F. WE Credit 3.1 - Required - 1 point for 35% Reduction - Water Use Reduction.
 - 1. Same solutions as for WE Credit 3.1, but greater reduction.

2.04 ENERGY & ATMOSPHERE (EA): 13 Points To Be Achieved.

- A. EA Prerequisite 1 - Required - No points - Fundamental Commissioning of Building Energy Systems.
 - 1. Commissioning performed by and under the supervision of an independent commissioning authority is included in the Contract Documents.
 - 2. General commissioning requirements are specified in Section 01810.
 - 3. The commissioning authority's responsibilities are specified in Section 01814 for Contractor's information only.
 - 4. Commissioning of HVAC is specified in Section 01816.
- B. EA Prerequisite 2 - Required - No points - Minimum Energy Performance.
 - 1. No modifications to the facility are required.
 - 2. The building envelope, HVAC, lighting, etc., have been designed to meet the criteria.
- C. EA Prerequisite 3 - Required - No points - Fundamental Refrigerant Management.
 - 1. New equipment: No CFC-based refrigerants are used in any equipment. Non-CFC refrigerants are specified in the following sections:
 - a. Chillers: Section 15684 (Rotary Screw).
- D. EA Credit 1 - Required - 10 points - Optimize Energy Performance.
 - 1. The building envelope, HVAC, lighting, etc., have been designed to meet the criteria for the number of points indicated.
- E. EA Credit 2 - Not Required - ___ points - On-Site Renewable Energy.
- F. EA Credit 3 - Required - 2 points - Enhanced Commissioning.
 - 1. The commissioning authority's responsibilities with regard to design phase review, review of Contractor's submittals, and post-occupancy review are specified in Section 01814, which is included for Contractor's information only.
 - 2. Contractor's responsibilities for post-occupancy commissioning are specified in Section 01810.

3. Responsibilities for preparation of operation and maintenance manuals for commissioned systems are specified in Section 01780.
 4. Responsibilities for demonstrating commissioned systems and conducting training of personnel are specified in Section 01820.
- G. EA Credit 4 - Required - 2 points - Enhanced Refrigerant Management.
1. No Halon is used in any equipment or extinguishing system.
 2. Fire Suppression:
 - a. Fire extinguishers specified in Section 10523 use agents other than Halon.
 - b. Existing Halon-based fire extinguishing system is to be replaced.
 - c. Fire extinguishing system using NFPA 2001 agents is specified in Section 13966.
- H. EA Credit 5 - Not Required - 3 points - Measurement & Verification.
1. No modifications to the facility are required.
- I. EA Credit 6 - Undecided - 2 points - Green Power.

2.05 MATERIALS & RESOURCES: 4 Points To Be Achieved.

- A. MR Prerequisite 1 - Required - No points - Storage & Collection of Recyclables.
1. Bins, waste cans, can crushers, etc., are considered furnishings and are therefore not part of the construction contract.
- B. MR Credit 1.1 - Not Required - 1 point for 55% - Building Reuse: Maintain Existing Walls, Floors & Roof.
- C. MR Credit 1.2 - Not Required - 1 point - Building Reuse: Maintain 50% of Interior Non-Structural Elements.
- D. MR Credit 2.1 - Required - 1 point - Construction Waste Management, Divert 50% from Disposal.
1. Construction procedures and measurement of diverted waste are specified in Section 01732. This section requires the Contractor to perform the measurement and computation.
 2. Waste prevention and disposal procedures specific to certain types of work are specified in many sections.
- E. MR Credit 2.2 - Undecided - 1 point - Construction Waste Management, Divert 75% from Disposal.
1. Same as for MR Credit 2.1, but increased quantity.
- F. MR Credit 3.1 - Not Possible - 1 point - Materials Reuse, 5%.
1. Contractor's reporting and measurement requirements are specified in Section 01355 and Section 01600; calculation of project totals is not the responsibility of Contractor.
- G. MR Credit 3.2 - Not Possible - 1 point - Materials Reuse: 10%.
- H. MR Credit 4.1 - Required - 1 point - Recycled Content: 10% (post-consumer plus 1/2 pre-consumer).
1. The definition of recycled content for the purposes of the contract documents is included in Section 01600; qualifying products do not include plumbing, HVAC, electrical, or communications equipment, piping, conduit, ductwork, or wiring.
 2. This project is steel-framed and contains many other steel-containing products; submission of a complete list of all metal-containing products will be required, with documentation showing steel mill source and mill process, allowing computation by using industry-averages for recycled content; the forms are specified in Section 01356.
 3. Concrete using recycled materials such as fly ash to replace portland cement as much as possible while retaining strength and design requirements is specified in:
 - a. Section 03300 - Cast-in-Place Concrete.
 - b. Section 03451 - Architectural Precast Concrete.
 4. Contractor's reporting and measurement requirements are specified in Section 01355 and Section 01600; calculation of project totals is not the responsibility of Contractor.

- I. MR Credit 4.2 - Preferred - 1 point - Recycled Content: 20% (post-consumer plus ½ pre-consumer).
 - 1. Same as for MR Credit 4.1, but increased quantity.
- J. MR Credit 5.1 - Required - 1 point - Regional Materials: 10% Extracted, Processed & Manufactured Regionally.
 - 1. For the purposes of the contract documents, the term "regionally-sourced" is used instead of "regional materials" and is defined in Section 01600 in the same way as for this credit.
 - 2. Contractor's reporting and measurement requirements are specified in Section 01355 and Section 01600; calculation of project totals is not the responsibility of Contractor.
- K. MR Credit 5.2 - Preferred - 1 point - Regional Materials: 20% Extracted, Processed & Manufactured Regionally.
 - 1. Same as for MR Credit 5.1, but for an additional 10%.
- L. MR Credit 6 - Not Possible - 1 point - Rapidly Renewable Materials.
- M. MR Credit 7 - Required - 1 point - Certified Wood.
 - 1. For the purposes of the contract documents, the term "sustainably harvested wood" is used instead of "certified wood" and is defined in Section 01600 in the same way as for this credit.
 - 2. The Contractor is required to achieve this credit through selection of materials plus any mandatory requirements specified in the contract documents; this requirement is specified in Section 01600.
 - 3. Specific wood products that must be sustainably harvested are specified in the appropriate section(s).
 - a. Lumber framing, sheathing, blocking, curbing, and miscellaneous carpentry are specified in Section 06100.
 - b. Finish woodwork is specified in Section 06200.
 - c. Custom cabinets are specified in Section 06410.
 - 4. Contractor's reporting and measurement requirements are specified in Section 01355 and Section 01600; calculation of project totals is not the responsibility of Contractor.

2.06 INDOOR ENVIRONMENTAL QUALITY: 14 Points To Be Achieved.

- A. EQ Prerequisite 1 - Required - No points - Minimum IAQ Performance.
 - 1. The building ventilation has been designed to meet the minimum requirements of ASHRAE 62.1-2004.
- B. EQ Prerequisite 2 - Required - No points - Environmental Tobacco Smoke (ETS) Control.
 - 1. DFCM intends to prohibit smoking in the building.
- C. EQ Credit 1 - Required - 1 point - Outdoor Air Delivery Monitoring.
 - 1. CO2 sensing and measurement devices in HVAC system, integrated with HVAC control system, are specified in Section 15975.
 - 2. Sequence of operation of HVAC controls is specified in Section 15975.
 - 3. Direct-digital HVAC control system is specified in Section 15975.
 - 4. Carbon dioxide monitoring and alarm system for naturally ventilated spaces is specified in Section 15975.
- D. EQ Credit 2 - Not Required - 1 point - Increased Ventilation.
- E. EQ Credit 3.1 - Required - 1 point - Construction IAQ Management Plan, During Construction.
 - 1. Good construction procedures intended to prevent future problems are specified in Section 01734.
- F. EQ Credit 3.2 - Required - 1 point - Construction IAQ Management Plan, Before Occupancy.
 - 1. Contractor is required to perform either a full building flush-out or air quality testing prior to occupancy, both of which are specified in Section 01734.
- G. EQ Credit 4.1 - Required - 1 point - Low-Emitting Materials, Adhesives & Sealants.
 - 1. Product criteria and reporting requirements for VOC-restricted products are specified in Section 01616.

2. The following products are used in this project and will comply with the specified VOC restrictions:
 3. Firestopping sealants; specified in Section 07840.
 4. Architectural joint sealants; specified in Section 07900.
 5. Duct sealers and sealants; specified in Section 15810.
- H. EQ Credit 4.2 - Required - 1 point - Low-Emitting Materials, Paints & Coatings.
1. Paints and stains are specified in Section 09900.
 - a. Water-based paints or solvent-based paints with VOC content meeting the credit criteria are used for all interior opaque applications.
 - b. Other coatings, such as stains and clear finishes, are specified to meet the most stringent of federal EPA, state, or local criteria.
- I. EQ Credit 4.3 - Required - 1 point - Low-Emitting Materials, Flooring Systems.
1. Carpet tile; specified in Section 09685.
 2. Adhesives used in connection with carpet systems.
- J. EQ Credit 4.4 - Required - 1 point - Low-Emitting Materials, Composite Wood & Agrifiber Products.
- K. EQ Credit 5 - Undecided - 1 point - Indoor Chemical & Pollutant Source Control.
1. Rooms Where Hazardous Gases or Chemicals May Be Present: Independent exhaust is provided for each room; this is a design solution involving building construction and HVAC.
 2. Chemical Mixing and Drainage: Separate plumbing drains are provided for environmentally appropriate disposal.
- L. EQ Credit 6.1 - Required - 1 point - Controllability of Systems: Lighting.
1. Lighting controls meeting the criteria are to be provided.
- M. EQ Credit 6.2 - Required - 1 point - Controllability of Systems: Thermal Comfort.
1. HVAC Controls: Individual controls are to be provided for at least 50 percent of occupants in regularly occupied areas.
- N. EQ Credit 7.1 - Required - 1 point - Thermal Comfort: Design.
1. The overall design solution is implemented in the drawings and many sections of the specifications.
- O. EQ Credit 7.2 - Required - 1 point - Thermal Comfort: Verification.
1. DFCM's O&M program will address procedures for identifying and implementing corrective actions.
- P. EQ Credit 8.1 - Required - 1 point - Daylight & Views: Daylighting.
1. The overall design solution is implemented in the drawings with light-admitting materials specified in many sections of the specifications, including:
 - a. Glazed aluminum storefront specified in Section 08410.
 - b. Glazed aluminum curtain walls specified in Section 08910.
- Q. EQ Credit 8.2 - Required - 1 point - Daylight & Views, Views for 90% of Spaces.
1. Views meeting the credit criteria are to be provided.

2.07 INNOVATION & DESIGN PROCESS (ID): 2 Points To Be Achieved.

- A. ID Credit 1.1 - Required - 1 point - Innovation in Design: variable volume kitchen exhaust hood.
- B. ID Credit 2 - Required - 1 point - LEED(tm) Accredited Professional.
1. At least one principal participant of the project team has successfully completed the LEED Accredited Professional exam

2.08 REGIONAL PRIORITY (RP): 1 Points To Be Achieved.

- A. RP Credit 1.1 - Required - 1 point - Region Specific Environmental Priority :

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HFSA #0813.01
DFCM #07039260

Northern Utah County Building
Mountainland Applied Technology College
Utah College of Applied Technology

END OF SECTION

SECTION 01355

LEED CERTIFICATION PROCEDURES

PART 1 GENERAL

1.01 PROJECT GOALS

- A. This project has been designed to achieve the LEED Silver (minimum 50 points rating as defined in the LEED(r) Green Building Rating System(tm) for New Construction and Major Renovations, 2009 Edition.
- B. Contractor is not responsible for the application for LEED certification, nor for determination of methods of achieving LEED credits unless specifically so indicated.
- C. Many of the LEED credits can be achieved only through intelligent design of the project and are beyond the control of the Contractor. However, certain credits relate to the products and procedures used for construction. Therefore, the full cooperation of the Contractor and subcontractors is essential to achieving final certification.
- D. Contractor shall familiarize himself with the relevant requirements and provide the necessary information and instruction to all subcontractors and installers.
- E. Since Contractor and subcontractors may not be familiar with LEED requirements, this section includes a summary of the products and procedures intended to achieve LEED credits.
 - 1. Some credits are marked PREREQUISITE; these must be achieved regardless of the level of certification; many are dependent on proper performance by Contractor and subcontractors.
 - 2. Other credits involve quantifying percentages by weight and cost; these require careful recordkeeping and reporting by the Contractor.
 - 3. See www.usgbc.org for more information.

1.02 RELATED REQUIREMENTS

- A. Sections that include requirements intended to achieve LEED credits include, but are not limited to, the following:
- B. Section 01356 - LEED Submittal Forms: Procedures for using the forms.
 - 1. 01357 - LEED Material Cost Summary; to report material only cost categories for computations necessary for MR Credits 3.1, 3.2, 4.1, 4.2, 5.1, 5.2, 6, and 7.
 - 2. 01358 - LEED Wood-Containing Product List; for documentation of wood and wood-based products used on project; MR Credit 7.
 - 3. 01359 - LEED Metal-Containing Product List; for documentation of steel and other metals used on project; MR Credits 4.1 and 4.2.
 - 4. 01360 - LEED New Product Content Form; for content percentages for recycled, rapidly renewable, and certified wood credits, with material cost; MR Credits 4.1, 4.2, 6, and 7; used in conjunction with Wood-Containing and Metal-Containing Product Lists as well as separately.
 - 5. 01361 - LEED New Product Source Form; for documenting source of new products; MR Credit 5.1 and 5.2.
 - 6. 01363 - LEED Prohibited Content Installer Certification; for each installer to certify compliance with VOC requirements for adhesives and sealants, including duct sealers, and to certify no use of urea-formaldehyde-containing wood products; EQ Credits 4.1 and 4.4.
- C. Section 01575 - Temporary Erosion and Sedimentation Control.
- D. Section 01734 - Indoor Air Quality:
 - 1. Contractor's IAQ management plan and construction procedures; EQ Credit 3.
 - 2. Contractor's IAQ management plan and construction procedures; EQ Credit 3.1.

3. Building flush out or air contaminant testing; EQ Credit 3.2.
- E. Section 01600 - Product Requirements: Overall project requirements for:
 1. Recycled content; MR Credits 4.1 and 4.2.
 2. Regionally-sourced products; MR Credits 5.1 and 5.2.
 - a. Contractor is not required to provide any particular minimum percentage of regionally-sourced products; however, to collect the information necessary to determine whether these credits can be achieved, Contractor is required to submit the LEED New Product Source Form for every product for which application for payment is made.
 3. Certified (sustainably harvested) wood; MR Credit 7.
- F. Section 01616 - Volatile Organic Compound (VOC) Content Restrictions: List of product categories having VOC content restrictions, evidence required, and reporting requirements.
- G. Section 01700 - Execution Requirements:
 1. Dust control and basic surface drainage; SS Prerequisite 1.
- H. Section 01732 - Waste Management:
 1. Construction and demolition waste management; MR Credit 1.1 and 1.2.
 2. Construction and demolition waste management; MR Credit 2.1 and 2.2.
- I. Section 01780 - Closeout Submittals:
 1. Maintenance and operation manuals for commissioned systems; EA Credit 2.
 2. Maintenance and operation manuals for commissioned systems; EA Credit 3.
- J. Section 01820 - Demonstration and Training:
 1. Fundamental commissioning; EA PREREQUISITE 1.
 2. Demonstration of commissioned systems and training of personnel; EA Credit 2.
 3. Demonstration of commissioned systems and training of personnel; EA Credit 3.
- K. Section 01810 - Commissioning:
 1. Fundamental commissioning; EA PREREQUISITE 1.
 2. Additional commissioning; EA Credit 2.
 3. Additional commissioning; EA Credit 3.
- L. Section 01815 - Commissioning Authority Responsibilities:
 1. Fundamental commissioning; EA PREREQUISITE 1.
 2. Additional commissioning; EA Credit 2.
 3. Additional commissioning; EA Credit 3.
- M. Section 03451 - Architectural Precast Concrete:
 1. Recycled content replacing portland cement; MR Credit 4.1.
- N. Section 06100 - Rough Carpentry:
 1. Requirement to use sustainably harvested wood; MR Credit 7.
- O. Section 06200 - Finish Carpentry:
 1. Requirement to use sustainably harvested wood; MR Credit 7.
- P. Section 06410 - Custom Cabinets:
 1. Requirement to use sustainably harvested wood; MR Credit 7.
- Q. Section 07540 - Thermoplastic Membrane Roofing:
 1. White membrane roofing; SS Credit 6.2.
 2. White membrane roofing; SS Credit 7.2.
- R. Section 07840 - Firestopping: LEED-VOC-compliant firestopping sealants; EQ Credit 4.1.

- S. Section 07900 - Joint Sealers: LEED-VOC-compliant sealants; EQ Credit 4.1.
- T. Section 08410 - Metal-Framed Storefronts and Windows:
 - 1. Daylighting; EQ Credit 8.1.
 - 2. Daylighting; EQ Credit 8.1 and 8.2.
 - 3. Views; EQ Credit 8.2.
 - 4. Views; EQ Credit 8.3 and 8.4.
- U. Section 08910 - Metal-Framed Curtain Wall:
 - 1. Daylighting; EQ Credit 8.1.
 - 2. Daylighting; EQ Credit 8.1 and 8.2.
- V. Section 08800 - Glazing:
 - 1. Daylighting; EQ Credit 8.1.
 - 2. Daylighting; EQ Credit 8.1 and 8.2.
 - 3. Views; EQ Credit 8.2.
 - 4. Views; EQ Credit 8.3 and 8.4.
- W. Section 09260 - Gypsum Board Assemblies:
 - 1. Deck-to-deck sealed partitions around certain rooms where hazardous gases or chemicals may be present; EQ Credit 5.
- X. Section 09685 - Carpet Tile: Carpet tile complying withCRI Green Label Plus requirements; EQ Credit 4.3.
- Y. Section 09900 - Paints and Coatings: LEED-VOC-compliant interior opaque paints and coatings; EQ Credit 4.2.
- Z. Section 10523 - Fire Extinguishers, Cabinets, and Accessories: Fire extinguishers that use agents other than Halon: EA Credit 4.
- AA. Section 11450 - Residential Equipment: Energy Star rated; EA Credit 1.4.
- AB. Section 11400 - Food Service Equipment: Energy Star rated; EA Credit 1.4.
- AC. Section 15145 - Plumbing Piping:
 - 1. Non-potable water distribution for landscape irrigation; WE Credits 1.1 and 1.2.
- AD. Section 15410 - Plumbing Fixtures:
 - 1. High efficiency and dry toilet fixtures; occupant sensors; WE Credit 1.1 and 1.2.
 - 2. High efficiency and dry toilet fixtures; occupant sensors; WE Credit 2.
 - 3. High efficiency and dry toilet fixtures; occupant sensors; WE Credit 3.1 and 3.2.
- AE. Section 15012 - Commissioning of HVAC:
 - 1. Fundamental commissioning; EA PREREQUISITE 1.
 - 2. Commissioning of HVAC controls; EQ Credit 7.2.
- AF. Section 15928 - Instruments and Control Elements:
 - 1. For minimum ventilation performance; EQ PREREQUISITE 1.
 - 2. Outdoor airflow measurement devices in HVAC system; EQ Credit 1.
 - 3. General ventilation control devices; EQ Credit 2.
 - 4. Carbon dioxide monitoring devices for ventilation control; EQ Credit 1.
- AG. Section 15926 - Digital Control Equipment:
 - 1. To support building systems monitoring; EA Credit 3.3.
 - 2. For minimum ventilation performance; EQ PREREQUISITE 1.
 - 3. Individual HVAC controls; EQ Credit 6.
 - 4. Individual HVAC controls; EQ Credit 6.2.

- AH. Section 15940 - HVAC Sequence of Operation:
1. For minimum ventilation performance; EQ PREREQUISITE 1.
 2. Ventilation control utilizing carbon dioxide monitoring; EQ Credit 1.
 3. Individual HVAC controls; EQ Credit 6.
 4. Individual HVAC controls; EQ Credit 6.2.
- AI. Section 15810 - Ducts:
1. Low-VOC duct sealers; MR Credit 3.
 2. Low-VOC duct sealers; EQ Credit 4.1.
 3. Separate ductwork for high-volume copy/print/fax rooms; EQ Credit 5.2.
 4. For mechanical ventilation for thermal comfort; EQ Credit 7.
- AJ. Section 15623 - Centrifugal Water Chillers:
1. Non-CFC refrigerant; EA PREREQUISITE 3.
- AK. Section 02930 - Exterior Plants:
1. Plants that do not require much irrigation; WE Credit 1.1 and 1.2.

1.03 SUBMITTALS

- A. See Section 01300 - Administrative Requirements, for additional submittal procedures.
- B. Submit LEED submittals and reports to HFS Architects, unless otherwise indicated.
- C. LEED Submittal/Report: For each product with the notation "show quantity on LEED submittal or report," submit a report with the following information:
1. Submit with each Application for Payment; update the Report each period with latest period shown separately:
 2. Identify each product with:
 - a. Name and manufacturer.
 - b. Specification section number.
 - c. Applicable Credit(s).
 - d. Net weight per unit.
 - e. Quantity installed.
 - f. Material cost per unit.
 - g. Total material cost.
 3. Attach evidence of compliance from either the manufacturer or an independent agency.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01356

LEED SUBMITTAL FORMS

1.01 PURPOSE

- A. These forms are for the Contractor's use in submitting documentation to be used to determine whether particular credits have been achieved. The cooperation of subcontractors, suppliers, and manufacturers is required.
- B. These forms apply to the following LEED Credits:
 - 1. MR Credits 4.1 and 4.2 - Recycled Content.
 - 2. MR Credits 5.1 and 5.2 - Regional Materials.
 - 3. MR Credit 7 - Certified Wood.
 - 4. IEQ Credit 4 - Low-Emitting Materials.

1.02 FORMS

- A. 01357 - LEED Material Cost Summary Form: Certification by Contractor.
- B. 01358 - LEED Wood-Containing Product List: Certification by Contractor.
- C. 01359 - LEED Metal-Containing Product List: Certification by Contractor.
- D. 01360 - LEED New Product Content Form: Including separate reporting of wood, steel, rapidly renewable, and recycled content; data certification by manufacturer of product; cost and quantity certification by Contractor.
- E. 01361 - LEED New Product Source Form: Data certification by manufacturer of product; cost and quantity certification by Contractor.
- F. 01617 - Accessory Material VOC Content Certification Form: Certification by each installer working on project regardless of product type.

1.03 PROCEDURES

- A. All LEED submittal forms are to be submitted by Contractor; certifications are to be made by indicated party.
- B. Where a LEED Submittal is called for, fill out and submit the appropriate form.
 - 1. Fill out one form for each different brand name product and each different manufacturer of a lot of commodity products.
 - 2. Where required attachments are specified, attach the documentation to the back of the form.
- C. Each form must be signed by the entity capable of certifying the information.
 - 1. Certification signatures must be made by an officer of the company.
 - 2. For products, certification must be made by the manufacturer not the supplier.
 - 3. For custom fabricated products, certification by the fabricator is acceptable.
- D. Submit the completed forms in accordance with the requirements of Section 01300 - Administrative Requirements, as information submittals.
 - 1. Give each form a unique submittal number.
 - 2. Do not combine LEED forms with product data or shop drawing submittals.
- E. Submit forms applicable to work for which application for payment is being made, either prior to or concurrent with application for payment; payment will not be made until relevant forms have been submitted.

HFS*Architects*
HFSA #0813.01
DFCM #07039260

Northern Utah County Building
Mountainland Applied Technology College
Utah College of Applied Technology

- F. For work covered by multiple applications for payment, the initial submittal of a LEED form is sufficient for subsequent applications unless the nature of the product has changed.

END OF SECTION

SECTION 01357

LEED MATERIAL COST SUMMARY FORM

1.01 LEED SUBMITTAL FORM

- A. Identification:
 - 1. Project Name: Northern Utah County Building
 - 2. Project No.: DFCM # 07039260
 - 3. HFS Architects: 0813.01

- B. This form applies to the following LEED Credits:
 - 1. MR Credits 4.1 and 4.2 - Recycled Content.
 - 2. MR Credits 5.1 and 5.2 - Regional Materials.
 - 3. MR Credit 7 - Certified Wood.

- C. Procedure:
 - 1. Because the above listed credits require computations based on the material costs for the project, the Contractor is required to submit the following cost breakdown, in addition to any cost breakdown specified elsewhere.
 - 2. Costs are to be material costs excluding labor, overhead, and profit, but including delivery, storage, and handling charges. Revise cost summary whenever materials actually installed change due to contract modifications or Contractor preference.

1.02 CERTIFICATION

- 1.03 \$ _____ Total Cost of All Materials
- 1.04 \$ _____ Total Cost of Plumbing, HVAC, Electrical, and Communications
- 1.05 \$ _____ Total Cost of Architectural Equipment in Divisions 11 Through 14
- 1.06 \$ _____ Total Cost of Wood and Wood-Based Materials, including temporary construction items that will neither be incorporated into the work nor returned to their supplier for re-use.

1.07 CERTIFIED BY: (Contractor)

- A. Print Name: _____
- B. Signature: _____
- C. Title: _____ (officer of company), Date: _____

END OF SECTION

SECTION 01358

LEED WOOD-CONTAINING PRODUCT LIST

1.01 LEED SUBMITTAL FORM

- A. Identification:
 - 1. Project Name: Northern Utah County Building
 - 2. Project No.: DFCM # 07039260
 - 3. HFS Architects: 0813.01
- B. This form applies to LEED MR Credit 7 (certified wood).

1.02 WOOD-CONTAINING PRODUCTS

- A. Wood-containing products are those made of solid wood, wood chip, or wood fiber, or containing components made of solid wood, wood chip, or wood fiber.
- B. Rationale: Because the computation for this credit is based on the total material costs for all wood and wood-based products on the project, the Contractor is required to submit the following itemization of wood and wood-based products, including materials used during construction but not incorporated into the finished work.
- C. Procedure: For each wood-containing product provided for this project, submit "LEED Material Content Form". At minimum, submit for the following products. Initial those for which the material content form is attached.
- D. Permanent Wood-Containing Product List:
 - 1. Sheathing
 - 2. Blocking, curbing, and nailers
 - 3. Molding and trim
 - 4. Architectural woodwork
 - 5. Cabinets and casework
 - 6. Doors and frames, including composite construction
- E. Temporary Wood-Containing Product List:
 - 1. Concrete formwork and formwork supports
 - 2. Bracing and shoring
 - 3. Barricades and enclosures

1.03 CERTIFICATION

- A. All other wood-containing products used on this project are shown on the attached list.
- B. I certify that there are no other wood-containing products used on this project that exceed 1 percent of total material cost.
- C. I certify that there are no other temporary facilities or construction using wood-containing products that exceed 1 percent of the total material cost.
- D. CERTIFIED BY: (Contractor)
 - 1. Print Name: _____
 - 2. Signature: _____
 - 3. Title: _____ (officer of company), Date: _____

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HFSA #0813.01
DFCM #07039260

Northern Utah County Building
Mountainland Applied Technology College
Utah College of Applied Technology

END OF SECTION

SECTION 01359

LEED METAL-CONTAINING PRODUCT LIST

1.01 LEED SUBMITTAL FORM

- A. Identification:
1. Project Name: Northern Utah County Building
 2. Project No.: DFCM #07039260
 3. HFS Architects: 0813.01
- B. This form applies to LEED Credits MR 4.1 and 4.2 (recycled content).

1.02 STEEL-CONTAINING PRODUCTS

- A. Rationale: Although all steel contains reused steel, steel products often cannot be traced to a certain mill lot and, even when they can, the mill's certificate usually does not indicate the proportion of new to reused steel.
- B. Procedure: Determine recycled steel content by estimating the proportion of reused steel based on trade association surveys of mill practices multiplied by the quantity of steel by weight in the product.
1. Referenced Mill Practices Survey: See the current edition of Steel Recycling Institute "Steel Takes LEED with Recycled Content," at http://www.recycle-steel.org/PDFs/leed/Steel%20Takes%20LEED_June06.pdf.
 2. If the mill source cannot be identified, the product will be considered to have the lowest reused steel content reported in referenced mill practices survey.
 3. For each steel-containing product provided for this project, submit "LEED New Product Content Form". At minimum, submit for the following products. Initial those for which the material content form is attached.
- C. Steel-Containing Product List:
1. ___ Concrete reinforcement (bars, mats, wire, mesh), anchor plates.
 2. ___ Structural steel framing members, plates.
 3. ___ Steel structural components of pre-engineered products.
 4. ___ Miscellaneous steel fabrications made from rolled shapes, including equipment supports.
 5. ___ Bar joists and girders.
 6. ___ Steel decking.
 7. ___ Light gauge steel framing and trusses.
 8. ___ Steel stairs and ladders.
 9. ___ Steel handrails and railings.
 10. ___ Miscellaneous formed steel fabrications.
 11. ___ Steel sheet metal flashing and trim.
 12. ___ Steel doors and frames.
 13. ___ Non-load-bearing steel framing (studs, ceiling framing, shaftwall)
 14. ___ Gypsum board finishing trim.
 15. ___ Suspended ceiling grid.
 16. ___ Steel access flooring.
 17. ___ Steel lockers.

1.03 CAST IRON-CONTAINING PRODUCTS

- A. Rationale: Cast iron is considered 100 percent recycled.
- B. For each homogeneous cast iron product, report total cost on "LEED New Product Content Form".

- C. Cast Iron Product List:
1. ___ Cast iron pipe.
 2. ___ Cast iron castings.

1.04 CERTIFICATION

- A. ___ All other steel- and cast iron-containing products used on this project are shown on the attached list.
- B. ___ I certify that there are no other steel-containing products used on this project that exceed 1 percent of total material cost less material cost attributed to mechanical and electrical.
- C. ___ I certify that there are no other cast iron-containing products used on this project that exceed 1 percent of total material cost less material cost attributed to mechanical and electrical.
- D. CERTIFIED BY: (Contractor)
1. Print Name: _____
 2. Signature: _____
 3. Title: _____ (officer of company), Date: _____

END OF SECTION

SECTION 01360

LEED NEW PRODUCT CONTENT FORM

1.01 LEED SUBMITTAL FORM

- A. Identification:
 - 1. Project Name: Northern Utah County Building
 - 2. Project No.: DFCM #07039260
 - 3. HFS Architects: 0813.01
 - 4. Product Name: _____ (brand name, model number, etc.)
 - 5. Manufacturer: _____
 - www. _____
 - a. Contact: _____ tel: _____
 - 6. Supplier/Sub: _____
 - www. _____
 - a. Contact: _____ tel: _____
 - 7. Applicable Specification Section Number(s) _____
- B. This form applies to LEED Credits MR 4.1 and 4.2 (recycled content), MR 6 (rapidly renewable content), and MR 7 (certified wood).

1.02 PRODUCT CERTIFICATION

- A. FSC-Certified Solid Wood, Wood Chip, and Wood Fiber Content: _____ percent by weight.
 - 1. _____ Product is FSC-trademarked.
 - 2. _____ FSC Chain-of-Custody certificate number is _____
 - 3. FSC: Forest Stewardship Council Chain-of-Custody number or physical trademark; computation of less than 100 percent certified content in accordance with FSC policy.
- B. Rapidly Renewable Content: _____ percent by weight.
 - 1. Description of Rapidly Renewable Content: _____
 - 2. Definition: Made from plants that are harvested not more than 10 years after planting.
- C. Steel Content: _____ percent by weight.
 - 1. _____ Steel Mill Source is: _____
 - 2. _____ Mill letter describing mill process and typical re-used steel content is attached.
- D. Other Content: (Percentages by weight may not add up to more than 100 percent.)
 - 1. Pre-Consumer/Post-Industrial Recycled Content: _____ percent by weight.
 - 2. Post-Consumer Recycled Content: _____ percent by weight.
 - 3. Description of Recycled Content: _____
 - 4. Definition: Recycled content is defined in accordance with FTC regulations, found in 16 CFR 260.7(e); see www.ftc.gov/bcp/gnrule/guides980427.htm.
- E. Total Weight: _____ per _____ (unit).
- F. CERTIFIED BY: (Manufacturer)
 - 1. Print Name: _____
 - 2. Signature: _____
 - 3. Title: _____ (officer of company), Date: _____

1.03 COST CERTIFICATION

- A. Unit Cost: \$ _____ per _____ (same unit as above); No. of Units Installed: _____
- B. OR (enter cost either above or below, not both)

C. Total Installed Material Cost of This Product: \$ _____

D. CERTIFIED BY: (Contractor)

1. Print Name: _____

2. Signature: _____

3. Title: _____ (officer of company), Date: _____

END OF SECTION

SECTION 01361

LEED NEW PRODUCT SOURCE FORM

1.01 LEED SUBMITTAL FORM

A. Identification:

1. Project Name: Northern Utah County Building
2. Project No.: DFCM #07039260
3. HFS Architects: 0813.01
4. Product Name: _____ (brand name, model number, etc.)
5. Manufacturer: _____ www. _____
 a. Contact: _____ tel: _____
6. Supplier/Sub: _____ www. _____
 a. Contact: _____ tel: _____
7. Applicable Specification Section Number(s) _____

B. This form applies to LEED MR Credits 5.1 and 5.2 for new products only; see separate form for reused products.

1.02 PRODUCT CERTIFICATION

A. The following percentages of this product were processed in the locations indicated. (Indicate N/A in first column if process is not applicable.)

Percent	Harvest, Extraction, Recovery, or Manufacturing Process	City/County, State, Country	Distance From Project
_____ %	Raw Material _____:	_____	_____
_____ %	Raw Material _____:	_____	_____
_____ %	Raw Material _____:	_____	_____
_____ %	Manufactured at: (primary)	_____	_____
_____ %	Manufactured at: (primary)	_____	_____
_____ %	Manufactured at: (secondary)	_____	_____
_____ %	Manufactured at: (secondary)	_____	_____
_____ %	Manufactured at: (final)	_____	_____
_____ %	Manufactured at: (final)	_____	_____

B. CERTIFIED BY: (Manufacturer)

1. Print Name: _____
2. Signature: _____
3. Title: _____ (officer of company), Date: _____

1.03 COST CERTIFICATION

- A. Unit Cost: \$ _____ per _____ (unit); No. of Units Installed: _____
- B. OR (enter cost either above or below, not both)
- C. Total Installed Material Cost: \$ _____
- D. CERTIFIED BY: (Contractor)
 1. Print Name: _____

HFS*Architects*
HFSA #0813.01
DFCM #07039260

Northern Utah County Building
Mountainland Applied Technology College
Utah College of Applied Technology

- 2. Signature: _____
- 3. Title: _____ (officer of company), Date: _____

END OF SECTION

SECTION 01363

LEED PROHIBITED CONTENT INSTALLER CERTIFICATION

1.01 LEED SUBMITTAL FORM

- A. Identification:
 - 1. Project Name: Northern Utah County Building
 - 2. Project No.: DFCM #07039260
 - 3. HFS Architects: 0813.01
- B. This form applies to the following LEED credits:
 - 1. Credit IEQ 4.1; VOC content of field-installed adhesives and sealants.
 - 2. Credit IEQ 4.4; added-urea-formaldehyde content of composite wood and agrifiber products, defined as particleboard, plywood, medium density fiberboard, wheatboard, strawboard, panel substrates, door cores, and laminating adhesives; applies to manufacturers/suppliers and installers.
- C. Procedure:
 - 1. Because installers are allowed and directed to choose accessory materials suitable for the applicable installation, each installer of work on this project is required to certify that his/their use of these particular materials complies with the contract documents and to provide documentation showing that the products used do not contain the prohibited content.
 - 2. Volatile organic compounds (VOCs) are defined by the U.S. EPA and state and local regulations applicable to this project. See Contract Documents for minimum criteria.

1.02 PRODUCT CERTIFICATION

- A. Adhesives: I certify that the installation work of my firm on this project has not required the use of any adhesives.
- B. OR (certify either the above or the below, not both)
- C. Adhesives: I certify that my firm has NOT installed any adhesive with VOC content exceeding that specified in Section 01600 on this project; product data and MSDS sheets for all adhesives used, whether specified or not, are attached.
- D. Joint Sealants: I certify that the installation work of my firm on this project has not required the use of any gunnable or pourable joint sealants.
- E. OR (certify either the above or the below, not both)
- F. Joint Sealants: I certify that my firm has NOT installed any joint sealant with VOC content exceeding that specified in Section 07900 on this project; product data and MSDS sheets for all joint sealants used, whether specified or not, are attached.
- G. Composite Wood and Agrifiber Products: I certify that the work of my firm on this project has not required the use of any composite wood or agrifiber products, as defined above.
- H. OR (certify either the above or the below, not both)
- I. Composite Wood and Agrifiber Products: I certify that the composite wood and agrifiber products, as defined above, furnished or installed by my firm DO NOT contain any ADDED urea-formaldehyde binder; product data and MSDS sheets for products used, whether specified or not, are attached.
- J. CERTIFIED BY: (Installer/Manufacturer/Supplier Firm)
 - 1. Firm Name: _____

HFS*Architects*
HFSA #0813.01
DFCM #07039260

**Northern Utah County Building
Mountainland Applied Technology College
Utah College of Applied Technology**

2. Print Name: _____
3. Signature: _____
4. Title: _____ (officer of company), Date: _____

END OF SECTION

SECTION 01575

TEMPORARY EROSION AND SEDIMENTATION CONTROL

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Prevention of erosion due to construction activities.
- B. Prevention of sedimentation of waterways, open drainage ways, and storm and sanitary sewers due to construction activities.
- C. Restoration of areas eroded due to insufficient preventive measures.
- D. Performance bond.
- E. Compensation of DFCM for fines levied by authorities having jurisdiction due to non-compliance by Contractor.

1.02 RELATED REQUIREMENTS

- A. Section 01355 - LEED Certification Procedures: LEED credits relating to erosion and sedimentation control.
- B. Section 02721 - Aggregate Base Course: Temporary and permanent roadways.

1.03 PERFORMANCE REQUIREMENTS

- A. Comply with all requirements of U.S. Environmental Protection Agency for erosion and sedimentation control, as specified for the National Pollutant Discharge Elimination System (NPDES), Phases I and II, under requirements for the 2003 Construction General Permit (CGP), whether the project is required by law to comply or not.
- B. Also comply with all more stringent requirements of State of Utah Erosion and Sedimentation Control Manual.
- C. Develop and follow an Erosion and Sedimentation Prevention Plan and submit periodic inspection reports.
- D. Do not begin clearing, grading, or other work involving disturbance of ground surface cover until applicable permits have been obtained; furnish all documentation required to obtain applicable permits.
- E. Provide to DFCM a Performance Bond covering erosion and sedimentation preventive measures only, in an amount equal to 100 percent of the cost of erosion and sedimentation control work.
- F. Timing: Put preventive measures in place as soon as possible after disturbance of surface cover and before precipitation occurs.
- G. Storm Water Runoff: Control increased storm water runoff due to disturbance of surface cover due to construction activities for this project.
 - 1. Prevent runoff into storm and sanitary sewer systems, including open drainage channels, in excess of actual capacity or amount allowed by authorities having jurisdiction, whichever is less.
 - 2. Anticipate runoff volume due to the most extreme short term and 24-hour rainfall events that might occur in 25 years.
- H. Erosion On Site: Minimize wind, water, and vehicular erosion of soil on project site due to construction activities for this project.
 - 1. Control movement of sediment and soil from temporary stockpiles of soil.
 - 2. Prevent development of ruts due to equipment and vehicular traffic.
 - 3. If erosion occurs due to non-compliance with these requirements, restore eroded areas at no cost to DFCM.

- I. Erosion Off Site: Prevent erosion of soil and deposition of sediment on other properties caused by water leaving the project site due to construction activities for this project.
 - 1. Prevent windblown soil from leaving the project site.
 - 2. Prevent tracking of mud onto public roads outside site.
 - 3. Prevent mud and sediment from flowing onto sidewalks and pavements.
 - 4. If erosion occurs due to non-compliance with these requirements, restore eroded areas at no cost to DFCM.
- J. Sedimentation of Waterways On Site: Prevent sedimentation of waterways on the project site, including rivers, streams, lakes, ponds, open drainage ways, storm sewers, and sanitary sewers.
 - 1. If sedimentation occurs, install or correct preventive measures immediately at no cost to DFCM; remove deposited sediments; comply with requirements of authorities having jurisdiction.
 - 2. If sediment basins are used as temporary preventive measures, pump dry and remove deposited sediment after each storm.
- K. Sedimentation of Waterways Off Site: Prevent sedimentation of waterways off the project site, including rivers, streams, lakes, ponds, open drainage ways, storm sewers, and sanitary sewers.
 - 1. If sedimentation occurs, install or correct preventive measures immediately at no cost to DFCM; remove deposited sediments; comply with requirements of authorities having jurisdiction.
- L. Open Water: Prevent standing water that could become stagnant.
- M. Maintenance: Maintain temporary preventive measures until permanent measures have been established.

1.04 SUBMITTALS

- A. See Section 01300 - Administrative Requirements, for submittal procedures.
- B. LEED Submittals: Submit all submittals required in this section in accordance with procedures specified in Section 01355.
- C. Erosion and Sedimentation Control Plan:
 - 1. Include:
 - a. Site plan identifying soils and vegetation, existing erosion problems, and areas vulnerable to erosion due to topography, soils, vegetation, or drainage.
 - b. Site plan showing grading; new improvements; temporary roads, traffic accesses, and other temporary construction; and proposed preventive measures.
 - c. Where extensive areas of soil will be disturbed, include storm water flow and volume calculations, soil loss predictions, and proposed preventive measures.
 - d. Schedule of temporary preventive measures, in relation to ground disturbing activities.
 - e. Other information required by law.
 - f. Format required by law is acceptable, provided any additional information specified is also included.
 - 2. Obtain the approval of the Plan by authorities having jurisdiction.
 - 3. Obtain the approval of the Plan by DFCM.
- D. Certificate: Mill certificate for silt fence fabric attesting that fabric and factory seams comply with specified requirements, signed by legally authorized official of manufacturer; indicate actual minimum average roll values; identify fabric by roll identification numbers.
- E. Inspection Reports: Submit report of each inspection; identify each preventive measure, indicate condition, and specify maintenance or repair required and accomplished.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Mulch: Use one of the following:
 - 1. Straw or hay.
 - 2. Wood waste, chips, or bark.
- B. Bales: Air dry, rectangular straw bales.
 - 1. Cross Section: 14 by 18 inches, minimum.
 - 2. Bindings: Wire or string, around long dimension.
- C. Bale Stakes: One of the following, minimum 3 feet long:
 - 1. Steel U- or T-section, with minimum mass of 1.33 lb per linear foot.
 - 2. Wood, 2 by 2 inches in cross section.
- D. Silt Fence Fabric: Polypropylene geotextile resistant to common soil chemicals, mildew, and insects; non-biodegradable; in longest lengths possible; fabric including seams with the following minimum average roll lengths:
 - 1. Average Opening Size: 30 U.S. Std. Sieve, maximum, when tested in accordance with ASTM D 4751.
 - 2. Permittivity: 0.05 sec^{-1} , minimum, when tested in accordance with ASTM D 4491.
 - 3. Ultraviolet Resistance: Retaining at least 70 percent of tensile strength, when tested in accordance with ASTM D 4355 after 500 hours exposure.
 - 4. Tensile Strength: 100 lb-f, minimum, in cross-machine direction; 124 lb-f, minimum, in machine direction; when tested in accordance with ASTM D 4632.
 - 5. Elongation: 15 to 30 percent, when tested in accordance with ASTM D 4632.
 - 6. Tear Strength: 55 lb-f, minimum, when tested in accordance with ASTM D 4533.
 - 7. Color: Manufacturer's standard, with embedment and fastener lines preprinted.
- E. Silt Fence Posts: One of the following, minimum 5 feet long:
 - 1. Steel U- or T-section, with minimum mass of 1.33 lb per linear foot.
 - 2. Softwood, 4 by 4 inches in cross section.
 - 3. Hardwood, 2 by 2 inches in cross section.
- F. Gravel: See Section 02721 for aggregate.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine site and identify existing features that contribute to erosion resistance; maintain such existing features to greatest extent possible.

3.02 PREPARATION

- A. Schedule work so that soil surfaces are left exposed for the minimum amount of time.

3.03 SCOPE OF PREVENTIVE MEASURES

- A. In all cases, if permanent erosion resistant measures have been installed temporary preventive measures are not required.
- B. Construction Entrances: Traffic-bearing aggregate surface.
 - 1. Width: As required; 20 feet, minimum.
 - 2. Length: 50 feet, minimum.
 - 3. Provide at each construction entrance from public right-of-way.
 - 4. Where necessary to prevent tracking of mud onto right-of-way, provide wheel washing area out of direct traffic lane, with drain into sediment trap or basin.
- C. Linear Sediment Barriers: Made of silt fences or straw bales.
 - 1. Provide linear sediment barriers:

- a. Along downhill perimeter edge of disturbed areas, including soil stockpiles.
2. Space sediment barriers with the following maximum slope length upslope from barrier:
 - a. Slope of Less Than 2 Percent: 100 feet..
 - b. Slope Between 2 and 5 Percent: 75 feet.
 - c. Slope Between 5 and 10 Percent: 50 feet.
 - d. Slope Between 10 and 20 Percent: 25 feet.
 - e. Slope Over 20 Percent: 15 feet.
- D. Storm Drain Curb Inlet Sediment Trap: Protect each curb inlet using one of the following measures:
 1. Filter fabric wrapped around hollow concrete blocks blocking entire inlet face area; use one piece of fabric wrapped at least 1-1/2 times around concrete blocks and secured to prevent dislodging; orient cores of blocks so runoff passes into inlet.
 2. Straw bale row blocking entire inlet face area; anchor into pavement.
- E. Storm Drain Drop Inlet Sediment Traps: As detailed on drawings.
- F. Temporary Splash Pads: Stone aggregate over filter fabric; size to suit application; provide at downspout outlets and storm water outlets.
- G. Soil Stockpiles: Protect using one of the following measures:
 1. Cover with polyethylene film, secured by placing soil on outer edges.
 2. Cover with mulch at least 4 inches thickness of pine needles, sawdust, bark, wood chips, or shredded leaves, or 6 inches of straw or hay.
- H. Mulching: Use only for areas that may be subjected to erosion for less than 6 months.
 1. Wood Waste: Use only on slopes 3:1 or flatter; no anchoring required.

3.04 INSTALLATION

- A. Traffic-Bearing Aggregate Surface:
 1. Excavate minimum of 6 inches.
 2. Place geotextile fabric full width and length, with minimum 12 inch overlap at joints.
 3. Place and compact at least 6 inches of 1.5 to 3.5 inch diameter stone.
- B. Silt Fences:
 1. Store and handle fabric in accordance with ASTM D 4873.
 2. Where slope gradient is less than 3:1 or barriers will be in place less than 6 months, use nominal 16 inch high barriers with minimum 36 inch long posts spaced at 6 feet maximum, with fabric embedded at least 4 inches in ground.
 3. Where slope gradient is steeper than 3:1 or barriers will be in place over 6 months, use nominal 28 inch high barriers, minimum 48 inch long posts spaced at 6 feet maximum, with fabric embedded at least 6 inches in ground.
 4. Where slope gradient is steeper than 3:1 and vertical height of slope between barriers is more than 20 feet, use nominal 32 inch high barriers with woven wire reinforcement and steel posts spaced at 4 feet maximum, with fabric embedded at least 6 inches in ground.
 5. Install with top of fabric at nominal height and embedment as specified.
 6. Do not splice fabric width; minimize splices in fabric length; splice at post only, overlapping at least 18 inches, with extra post.
 7. Fasten fabric to wood posts using one of the following:
 - a. Four 3/4 inch diameter, 1 inch long, 14 gage nails.
 - b. Five 17-gage staples with 3/4 inch wide crown and 1/2 inch legs.
 8. Fasten fabric to steel posts using wire, nylon cord, or integral pockets.
 9. Wherever runoff will flow around end of barrier or over the top, provide temporary splash pad or other outlet protection; at such outlets in the run of the barrier, make barrier not more than 12 inches high with post spacing not more than 4 feet.

- C. Straw Bale Rows:
 - 1. Install bales in continuous rows with ends butting tightly, with one bale at each end of row turned uphill.
 - 2. Install bales so that bindings are not in contact with the ground.
 - 3. Embed bales at least 4 inches in the ground.
 - 4. Anchor bales with at least two stakes per bale, driven at least 18 inches into the ground; drive first stake in each bale toward the previously placed bale to force bales together.
 - 5. Fill gaps between ends of bales with loose straw wedged tightly.
 - 6. Place soil excavated for trench against bales on the upslope side of the row, compacted.

3.05 MAINTENANCE

- A. Inspect preventive measures weekly, within 24 hours after the end of any storm that produces 0.5 inches or more rainfall at the project site, and daily during prolonged rainfall.
- B. Repair deficiencies immediately.
- C. Silt Fences:
 - 1. Promptly replace fabric that deteriorates unless need for fence has passed.
 - 2. Remove silt deposits that exceed one-third of the height of the fence.
 - 3. Repair fences that are undercut by runoff or otherwise damaged, whether by runoff or other causes.
- D. Straw Bale Rows:
 - 1. Promptly replace bales that fall apart or otherwise deteriorate unless need has passed.
 - 2. Remove silt deposits that exceed one-half of the height of the bales.
 - 3. Repair bale rows that are undercut by runoff or otherwise damaged, whether by runoff or other causes.
- E. Clean out temporary sediment control structures weekly and relocate soil on site.
- F. Place sediment in appropriate locations on site; do not remove from site.

3.06 CLEAN UP

- A. Remove temporary measures after permanent measures have been installed, unless permitted to remain by HFS Architects.
- B. Clean out temporary sediment control structures that are to remain as permanent measures.
- C. Where removal of temporary measures would leave exposed soil, shape surface to an acceptable grade and finish to match adjacent ground surfaces.

END OF SECTION

SECTION 01732

WASTE MANAGEMENT

PART 1 GENERAL

1.01 WASTE MANAGEMENT REQUIREMENTS

- A. DFCM requires that this project generate the least amount of trash and waste possible.
- B. Employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors.
- C. Minimize trash/waste disposal in landfills; reuse, salvage, or recycle as much waste as economically feasible.
- D. Required Recycling, Salvage, and Reuse: The following may not be disposed of in landfills or by incineration:
 - 1. Aluminum and plastic beverage containers.
 - 2. Corrugated cardboard.
 - 3. Wood pallets.
 - 4. Clean dimensional wood.
 - 5. Bricks: May be used on project if whole, or crushed and used as landscape cover, sub-base material, or fill.
 - 6. Metals, including packaging banding, metal studs, sheet metal, structural steel, piping, reinforcing bars, door frames, and other items made of steel, iron, galvanized steel, stainless steel, aluminum, copper, zinc, lead, brass, and bronze.
 - 7. Glass.
 - 8. Gypsum drywall and plaster.
 - 9. Carpet, carpet cushion, carpet tile, and carpet remnants, both new and removed: DuPont (<http://flooring.dupont.com>) and Interface (www.interfaceinc.com) conduct reclamation programs.
 - 10. Rigid foam insulation.
- E. LEED Certification for this project is dependent on diversion of 50 percent, by weight, of potential landfill trash/waste by recycling and/or salvage.
- F. Contractor shall submit periodic Waste Disposal Reports; all landfill disposal, incineration, recycling, salvage, and reuse must be reported regardless of to whom the cost or savings accrues; use the same units of measure on all reports.
- G. Contractor shall develop and follow a Waste Management Plan designed to implement these requirements.
- H. The following sources may be useful in developing the Waste Management Plan:
- I. Methods of trash/waste disposal that are not acceptable are:
 - 1. Burning on the project site.
 - 2. Burying on the project site.
 - 3. Dumping or burying on other property, public or private.
 - 4. Other illegal dumping or burying.
- J. Regulatory Requirements: Contractor is responsible for knowing and complying with regulatory requirements, including but not limited to Federal, state and local requirements, pertaining to legal disposal of all construction and demolition waste materials.

1.02 RELATED REQUIREMENTS

- A. Section 01300 - Administrative Requirements: Additional requirements for project meetings, reports, submittal procedures, and project documentation.

- B. Section 01500 - Temporary Facilities and Controls: Additional requirements related to trash/waste collection and removal facilities and services.
- C. Section 01600 - Product Requirements: Waste prevention requirements related to delivery, storage, and handling.

1.03 DEFINITIONS

- A. Clean: Untreated and unpainted; not contaminated with oils, solvents, caulk, or the like.
- B. Construction and Demolition Waste: Solid wastes typically including building materials, packaging, trash, debris, and rubble resulting from construction, remodeling, repair and demolition operations.
- C. Hazardous: Exhibiting the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity or reactivity.
- D. Nonhazardous: Exhibiting none of the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity, or reactivity.
- E. Nontoxic: Neither immediately poisonous to humans nor poisonous after a long period of exposure.
- F. Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured into a new product for reuse by others.
- G. Recycle: To remove a waste material from the project site to another site for remanufacture into a new product for reuse by others.
- H. Recycling: The process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for the purpose of using the altered form. Recycling does not include burning, incinerating, or thermally destroying waste.
- I. Return: To give back reusable items or unused products to vendors for credit.
- J. Reuse: To reuse a construction waste material in some manner on the project site.
- K. Salvage: To remove a waste material from the project site to another site for resale or reuse by others.
- L. Sediment: Soil and other debris that has been eroded and transported by storm or well production run-off water.
- M. Source Separation: The act of keeping different types of waste materials separate beginning from the first time they become waste.
- N. Toxic: Poisonous to humans either immediately or after a long period of exposure.
- O. Trash: Any product or material unable to be reused, returned, recycled, or salvaged.
- P. Waste: Extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable, returnable, recyclable, and reusable material.

1.04 SUBMITTALS

- A. See Section 01300 - Administrative Requirements, for submittal procedures.
- B. LEED Submittals: Submit Landfill Alternatives Proposal, Waste Management Plan, and Waste Disposal Reports in accordance with procedures specified in Section 01355.
- C. Landfill Alternatives Proposal: Within 10 calendar days after receipt of Notice of Award of Bid, or prior to any trash or waste removal, whichever occurs sooner, submit a projection of trash/waste that will require disposal and alternatives to landfilling, with net costs.

1. Submit to HFS Architects for DFCM's review and approval.
 2. If DFCM wishes to implement any cost alternatives, the Contract Price will be adjusted as specified elsewhere.
 3. Include an analysis of trash/waste to be generated and landfill options as specified for Waste Management Plan described below.
 4. Describe as many alternatives to landfilling as possible:
 - a. List each material proposed to be salvaged, reused, or recycled.
 - b. List the proposed local market for each material.
 - c. State the estimated net cost resulting from each alternative, after subtracting revenue from sale of recycled or salvaged materials and landfill tipping fees saved due to diversion of materials from the landfill.
 5. Provide alternatives to landfilling for at least the following materials:
 - a. Concrete.
 - b. Concrete masonry units.
 - c. Asphalt paving.
 - d. Gypsum drywall and plaster.
 - e. Carpet, carpet cushion, carpet tile, and carpet remnants: DuPont (<http://flooring.dupont.com>) and Interface (www.interfaceinc.com) conduct reclamation programs.
 - f. Rigid foam insulation.
- D. Once DFCM has determined which of the landfill alternatives addressed in the Proposal above are acceptable, prepare and submit Waste Management Plan; submit within 10 calendar days after notification by HFS Architects.
- E. Waste Management Plan: Include the following information:
1. Analysis of the trash and waste projected to be generated during the entire project construction cycle, including types and quantities.
 2. Landfill Options: The name, address, and telephone number of the landfill(s) where trash/waste will be disposed of, the applicable landfill tipping fee(s), and the projected cost of disposing of all project trash/waste in the landfill(s).
 3. Landfill Alternatives: List all waste materials that will be diverted from landfills by reuse, salvage, or recycling.
 4. Meetings: Describe regular meetings to be held to address waste prevention, reduction, recycling, salvage, reuse, and disposal.
 5. Materials Handling Procedures: Describe the means by which materials to be diverted from landfills will be protected from contamination and prepared for acceptance by designated facilities; include separation procedures for recyclables, storage, and packaging.
 6. Transportation: Identify the destination and means of transportation of materials to be recycled; i.e. whether materials will be site-separated and self-hauled to designated centers, or whether mixed materials will be collected by a waste hauler.
- F. Waste Disposal Reports: Submit at specified intervals, with details of quantities of trash and waste, means of disposal or reuse, and costs; show both totals to date and since last report.
1. Submit updated Report with each Application for Progress Payment; failure to submit Report will delay payment.
 2. Submit Report on a form acceptable to DFCM.
 3. Landfill Disposal: Include the following information:
 - a. Identification of material.
 - b. Amount, in tons or cubic yards, of trash/waste material from the project disposed of in landfills.
 - c. State the identity of landfills, total amount of tipping fees paid to landfill, and total disposal cost.
 - d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
 4. Incinerator Disposal: Include the following information:

- a. Identification of material.
 - b. Amount, in tons or cubic yards, of trash/waste material from the project delivered to incinerators.
 - c. State the identity of incinerators, total amount of fees paid to incinerator, and total disposal cost.
 - d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
5. Recycled and Salvaged Materials: Include the following information for each:
- a. Identification of material, including those retrieved by installer for use on other projects.
 - b. Amount, in tons or cubic yards, date removed from the project site, and receiving party.
 - c. Transportation cost, amount paid or received for the material, and the net total cost or savings of salvage or recycling each material.
 - d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
 - e. Certification by receiving party that materials will not be disposed of in landfills or by incineration.
6. Material Reused on Project: Include the following information for each:
- a. Identification of material and how it was used in the project.
 - b. Amount, in tons or cubic yards.
 - c. Include weight tickets as evidence of quantity.
7. Other Disposal Methods: Include information similar to that described above, as appropriate to disposal method.

PART 3 EXECUTION

2.01 WASTE MANAGEMENT PROCEDURES

- A. See Section 01300 for additional requirements for project meetings, reports, submittal procedures, and project documentation.
- B. See Section 01500 for additional requirements related to trash/waste collection and removal facilities and services.
- C. See Section 01600 for waste prevention requirements related to delivery, storage, and handling.

2.02 WASTE MANAGEMENT PLAN IMPLEMENTATION

- A. Manager: Designate an on-site person or persons responsible for instructing workers and overseeing and documenting results of the Waste Management Plan.
- B. Communication: Distribute copies of the Waste Management Plan to job site foreman, each subcontractor, DFCM, and HFS Architects.
- C. Instruction: Provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the project.
- D. Meetings: Discuss trash/waste management goals and issues at project meetings.
 1. Pre-bid meeting.
 2. Pre-construction meeting.
 3. Regular job-site meetings.
- E. Facilities: Provide specific facilities for separation and storage of materials for recycling, salvage, reuse, return, and trash disposal, for use by all contractors and installers.
 1. Provide containers as required.
 2. Provide adequate space for pick-up and delivery and convenience to subcontractors.
 3. Keep recycling and trash/waste bin areas neat and clean and clearly marked in order to avoid contamination of materials.
- F. Hazardous Wastes: Separate, store, and dispose of hazardous wastes according to applicable regulations.

- G. Recycling: Separate, store, protect, and handle at the site identified recyclable waste products in order to prevent contamination of materials and to maximize recyclability of identified materials. Arrange for timely pickups from the site or deliveries to recycling facility in order to prevent contamination of recyclable materials.
- H. Reuse of Materials On-Site: Set aside, sort, and protect separated products in preparation for reuse.
- I. Salvage: Set aside, sort, and protect products to be salvaged for reuse off-site.

END OF SECTION

Revisions to Hardware Schedule:

NO:	ACTION.	QTY.	ITEM.	MFG.	MODEL	SIZE	FIN.
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Group 1:

	Add:	1 Ea.	Electrical Strike	Von Duprin	611		
	Add:	1 Ea.	Power Supply	Von Duprin	PS861		

Group 1: Add at doors A101 & A111:

	Add:	1 Ea.	Removable Mullion	Von Duprin	4854		
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Group 8:

	Delete:		Astragal				
	Add:	1 Ea.	Electrical Stroke	Von Duprin	6111		
	Add:	1 Ea.	Power Supply	Von Duprin	PS861		

Group 19:

	Change Lockset to:			Schlage	D80PD		
	Add:		Electrical Strike	Securitron	UNL-24		
	Add:	1 Ea.	Power Supply	Von Duprin	PS861		

Group 27 Bookstore

	Add:	3 Ea.	Hinges	Hager	A3700	4 ½ x 4 ½	26D
	Add:	1 Ea.	Delayed Exit	Von Duprin	CX98EO*		26D
	Add:	1 Ea.	Closer	LCN	4040-CUSH		AL
	Add:	1 Ea.	Electrical Power				
	Add:		Transfer	Von Duprin	EPT-10		26D
	Add:	1 Ea.	Power Supply	Von Duprin	873-51		

Hardware Groups 1,2,3,4,5 & 6

Add	1 (per leaf) pull, forms & surfaces				DT1214 x 86" US 32 D		
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TOILET ACCESSORY SCHEDULE

- A. The following catalog numbers refer to products of Bobrick, and these scheduled products serve as the standard of quality required on this project. Provide these or comparable products from specified manufacturers if they meet or exceed this standard of quality.

Base Bid

ROOM/NO.	ITEM	QTY.	MODEL NO.
Unisex RR: A125, C112, A221, B225, C204 & C205			
	Grab Bars	1 Set	B-6806 18", 36" & 42"
	Mirror	1 Ea	B-290 24" x 36"
	Sanitary Napkin Disposal	1 Ea	B-254
Women's RR: B112			
	Grab Bars	1 Set	B-6806 42" & 42"
	Grab Bars	1 Set	B-6806 18", 36" & 42"
	Mirror	5 Ea	B-290 24" x 36"
	Sanitary Napkin Vendors	1 Ea	B-3502x2
	Sanitary Napkin Disposal	7 Ea	B-254
Women's RR: B204			
	Grab Bars	1 Set	B-6806 18", 36" & 42"
	Mirror	3 Ea	B-290 24" x 36"
	Sanitary Napkin Vendors	1 Ea	B-3502x2
	Sanitary Napkin Disposal	Ea	B-254
Men's RR: B114			
	Grab Bars	1 Set	B-6806 42" & 42"
	Grab Bars	1 Set	B-6806 18", 36" & 42"
	Mirror	4 Ea	B-290 24" x 36"
Men's RR: B202			
	Grab Bars	1 Set	B-6806 18", 36" & 42"
	Mirror	3 Ea	B-290 24" x 36"
Janitor: B113, C104 & B203			
	Mop/Broom Holder	1 Ea	B-224 x 36

Alternate #1

ROOM/NO.	ITEM	QTY.	MODEL NO.
Women's RR: B308			
	Grab Bars	1 Set	B-6806 42" & 42"
	Grab Bars	1 Set	B-6806 18", 36" & 42"
	Mirror	4 Ea	B-290 24" x 36"
	Sanitary Napkin Vendors	1 Ea	B-3502x2
	Sanitary Napkin Disposal	6 Ea	B-254
Men's RR: B311			
	Grab Bars	1 Set	B-6806 42" & 42"
	Grab Bars	1 Set	B-6806 18", 36" & 42"
	Mirror	4 Ea	B-290 24" x 36"
Janitor: B309			
	Mop/Broom Holder	1 Ea	B-224 x 36

FINISH SCHEDULE

0000 — ROOM NUMBER
A 1 — WALL/WAINSCOT FINISH
 FLOOR/BASE FINISH

FLOOR /BASE	WALL/WAINSCOT
<p>A. CARPET TILE & 4" OAK BASE.</p> <p>B. CARPET TILE & 4" STRAIGHT RUBBER BASE.</p> <p>C. EPOXY TERRAZZO (SEE PLAN FOR JOINT PATTERN).</p> <p>D. 2 X 2 CERAMIC MOSAIC.</p> <p>E. 12" X 12" PORCELAIN PAVER-SMOOTH W/ EPOXY GROUT.</p> <p>F. CARPET "WALK OFF" TILES.</p> <p>G. 12" X 12" RESILIENT TILE W/ 4" RUBBER BASE.</p> <p>H. 6" X 6" PORCELAIN PAVER-TEXTURED.</p> <p style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">I. CARPET TILE W/ ACCENT BAND.</p> <p>J. 6" X 6" QUARY TILE WITH 5" X 6" ROUND TOP COVE BASE TILE & EPOXY GROUT. TWO COLORS LAID IN CHECKER BOARD PATTERN @ 45 DEG TO WALLS.</p> <p>K. SEALED CONCRETE W/ 4" COVERED RUBBER BASE.</p> <p>L. 2' X 2' RAISED ACCESS FLOOR PANELS.</p> <p>M. SEAMLESS RESILIENT FLOOR W/ SELF COVERED 4" BASE.</p> <p>N. EPOXY TRAFFIC MEMBRANE TURNED UP 4" VERTICALLY.</p> <p>P. EPOXY TERRAZZO & 4" OAK BASE</p>	<p>1. PAINT.</p> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; margin: 5px 0;"> <p>2. PAINT & 6" OAK CHAIR RAIL, SEE REVISED DETAIL B4/AE701.</p> </div> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; margin: 5px 0;"> <p>3. TRAVERTINE TILE 12" W x 6" H TO 3'-0", 6" OAK CHAIR RAIL, PAINT ABOVE, SEE REVISED DETAIL B5/AE701.</p> </div> <p>4. 4 1/4" X 4 1/4" GLAZED TILE, FLOOR TO CEILING W/ 2 ROW CHECKER BOARD ACCENT TILE.</p> <p>5. 12" X 12" TRAVERTINE W/ (2) 3" ACCENT BANDS, FLOOR TO CEILING.</p>

ROOF DRAIN CHASE SCHEDULE

Provide **2'-0' x 2'-0" clear** chase for roof drain pipes. Enclose with 3-5/8" metal framing to 6" above ceiling at 16" O.C. with 5/8" gyp board to the following rooms and locations:

*(*Modify casework as required)*

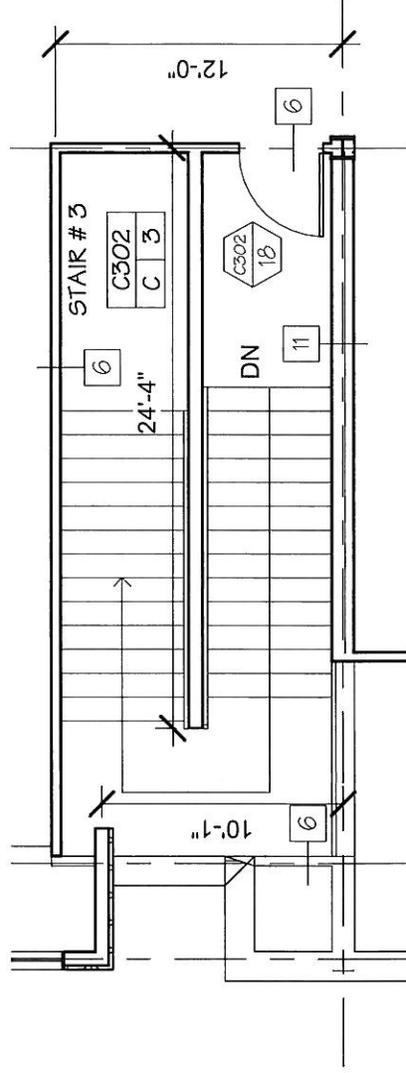
Pedicure	A116	Northwest corner
Perf Rm	B118	Northwest corner
Open Office	B136	East of Grid D & South of Grid 0.4
North Star Office	B144	Southeast corner
Dining Room	B151	West of Grid A.04 & center of Grid 4
Dish Wash	B154	West of Grid A & North of Grid 6
Resource Room	B158	Southwest corner
Computer Testing	B104	Northwest corner
Culinary Classroom	C135	Northwest corner
Demonstration	C105	Southeast corner
*Storage	A213	Northwest corner
Computer Classroom	A202	Southeast corner
Dental Stations	A206	East of Grid 1.2 & South of Grid 3
*Physical Therapy	B221	Northwest corner
*Pharm Tech Class	B231	Northwest corner
Pharm Tech Class	B231	West of Grid C & Center South of Grid 1
President	B241	Northeast corner
Prog. Dir	B243	Southeast corner
Financial Manager	B249	Southeast corner
Classroom	C236	Northwest corner

Provide **1'-0' x 2'-0" clear** chase for roof drain pipes. Enclose with 3-5/8" metal framing to 6" above ceiling at 16" O.C. with 5/8" gyp board to the following rooms and locations:

Dining Room	B151	Northeast corner
-------------	------	------------------

Provide **1'-0' x 1'-0" clear** chase for roof drain pipes. Enclose with 3-5/8" metal framing to 6" above ceiling at 16" O.C. with 5/8" gyp board to the following rooms and locations:

Hallway	C126	Southeast corner
Patient Bed Lab	C232	Southeast corner



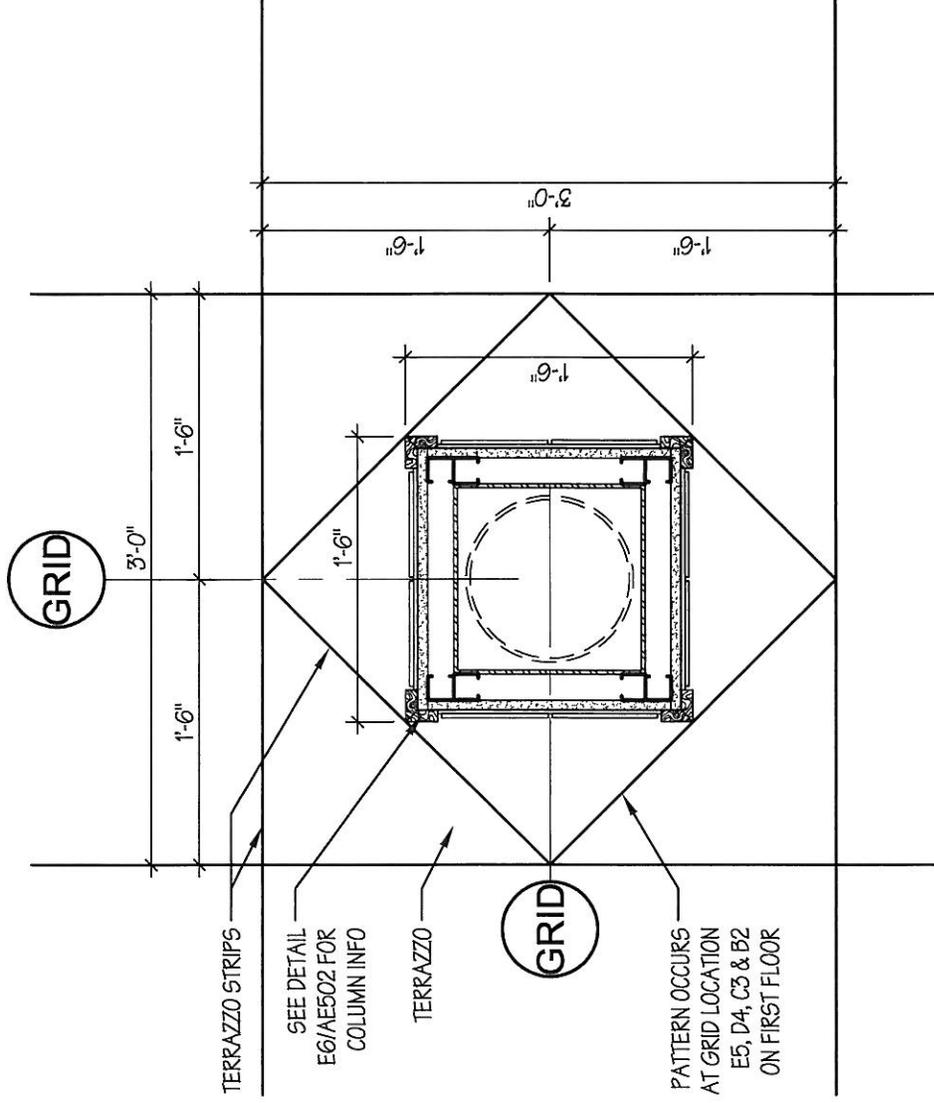
SCALE: 1/8" = 1'-0"
DATE: Aug 17, 2009
CLIENT PROJ No 070392650
HFSa PROJ No 0813.01

ADD #2 STAIR PLAN

MATC NORTHERN UTAH COUNTY BUILDING

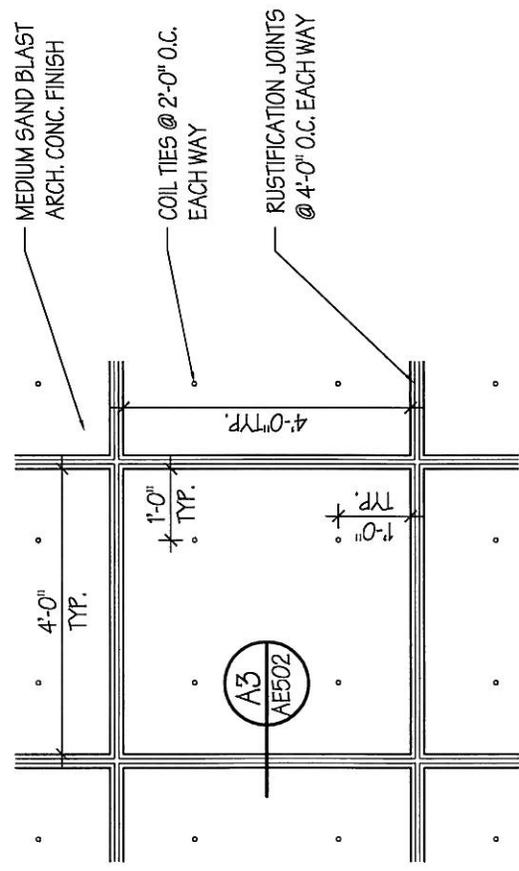
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PLANNING





E1 TERRAZZO PATTERN DETAIL
SCALE: 1" = 1'-0"

ADD #2 CONCRETE JOINT & TIE ELEV. DETAIL
MATC NORTHERN UTAH COUNTY BUILDING

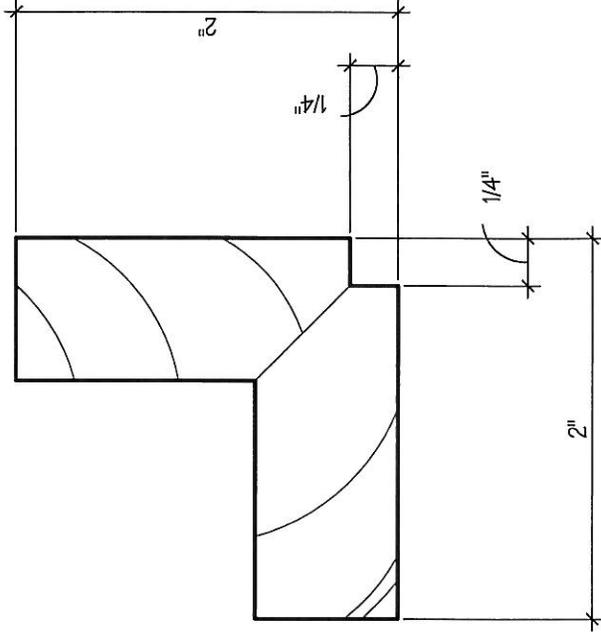


D1

CONCRETE JOINT & TIE ELEV. DETAIL

SCALE: 3/8" = 1'-0"





E5

CORNER COLUMN DETAIL

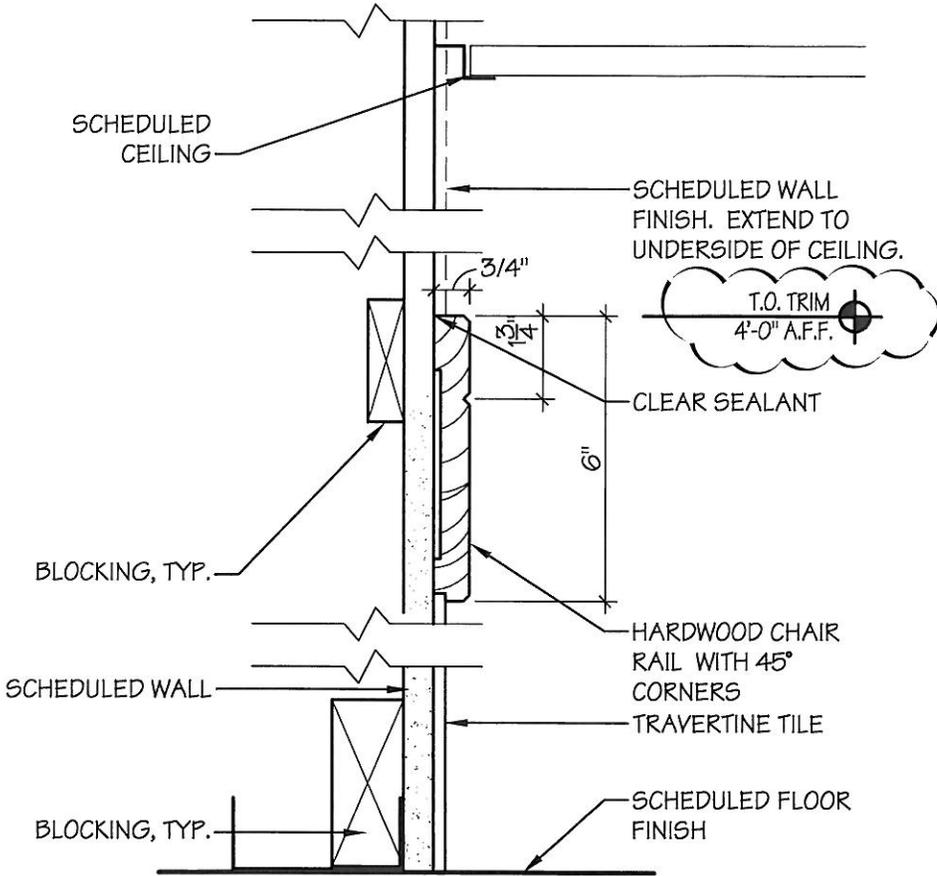
SCALE: FULL SIZE

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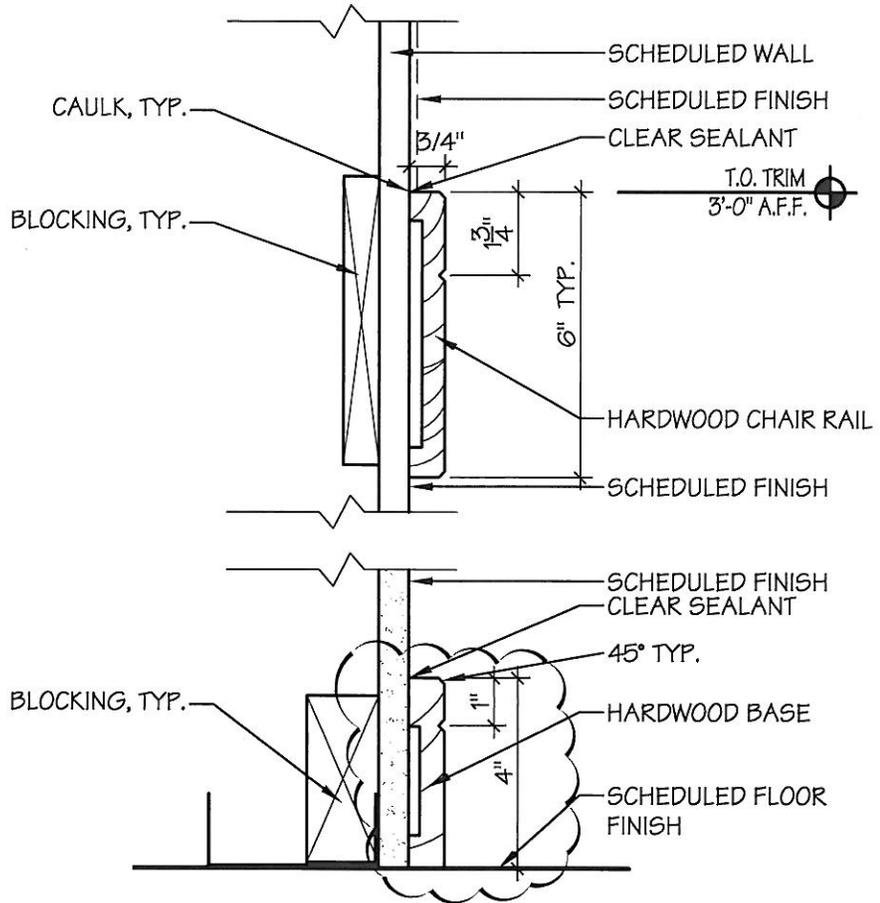
ADD #2 CORNER COLUMN DETAIL
MATC NORTHERN UTAH COUNTY BUILDING

SCALE: FULL SIZE
DATE: Aug 17, 2009
CLIENT PROJ No 07039260
HFSA PROJ No 0813.01



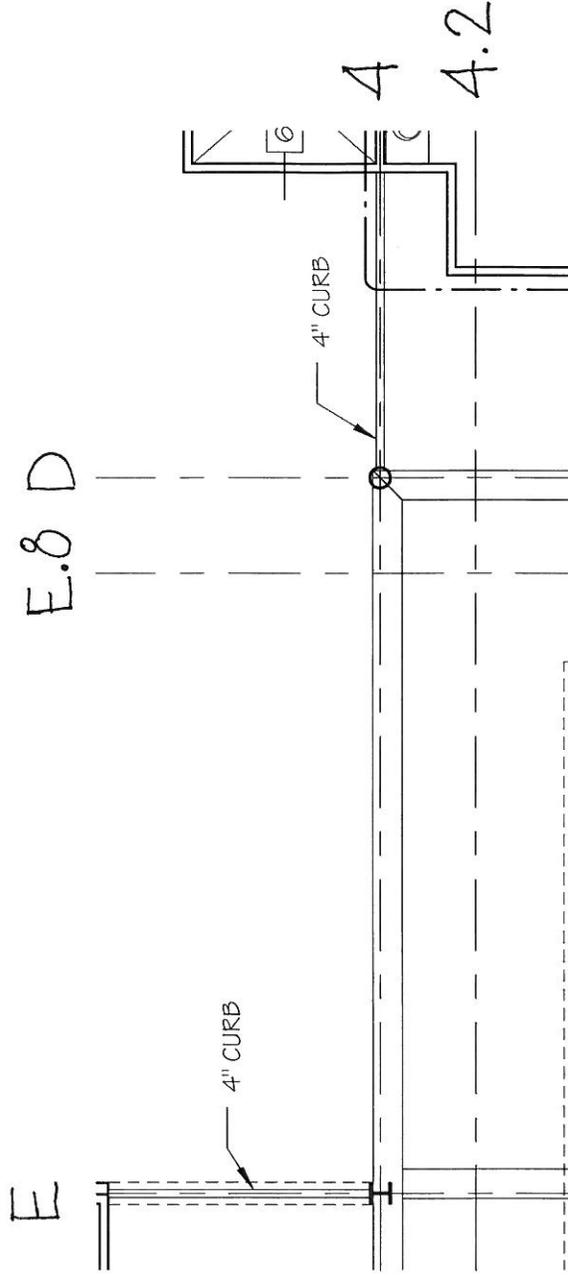
B5 WAINSCOT DETAIL- HALLWAY
 SCALE: 3" = 1'-0"





B4 WAINSCOT DETAIL
 SCALE: 3" = 1'-0"



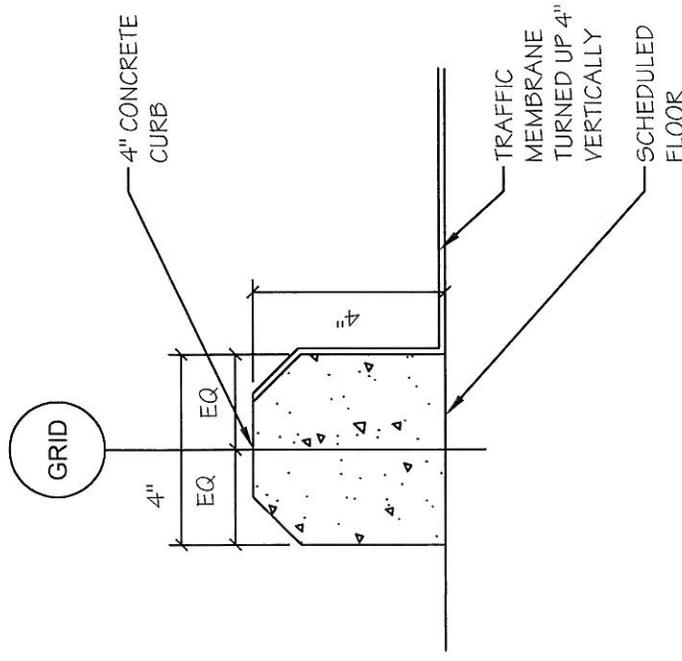


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ADD#2 AIR HANDLER ROOM CURBS
MATC NORTHERN UTAH COUNTY BUILDING

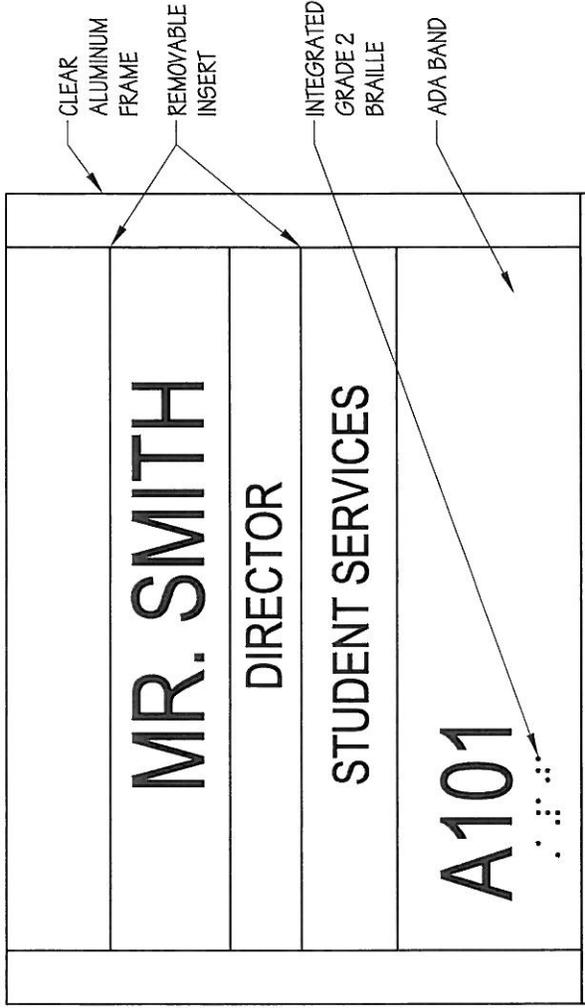
SCALE: 1/8" = 1'-0"
DATE: Aug 17, 2009
CLIENT PROJ No 070392650
HFSA PROJ No 0813.01



AIR HANDLER ROOM CURB DETAIL

SCALE: 3" = 1'-0"





E6

PRIVATE OFFICE SIGN

SCALE: 6" = 1'-0"

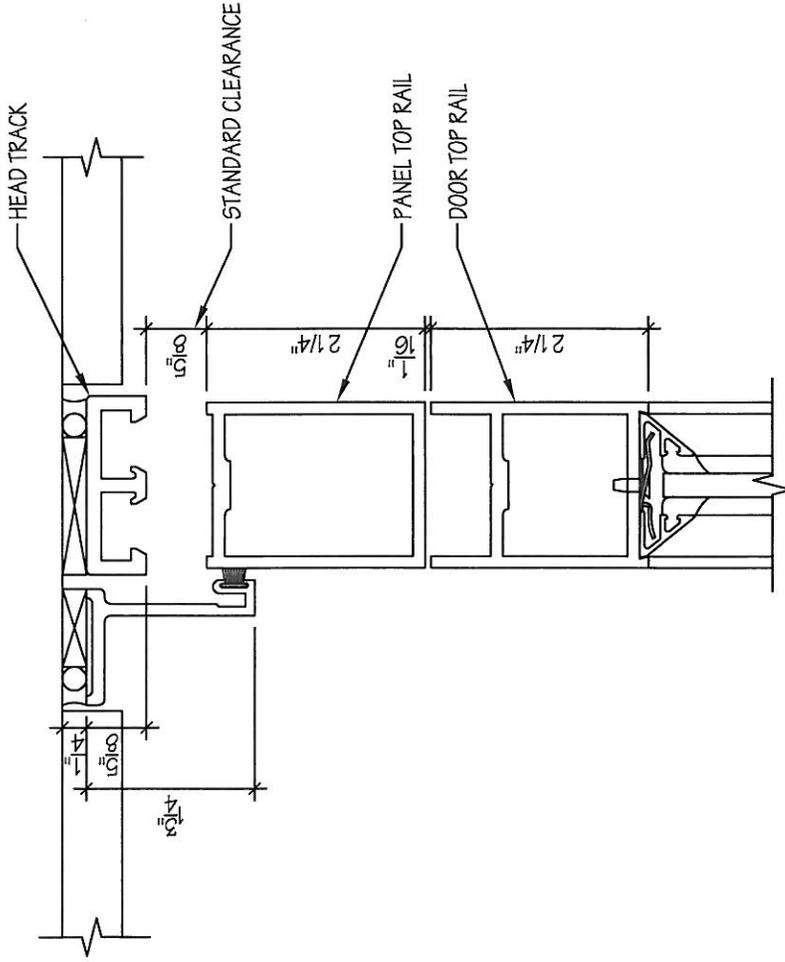


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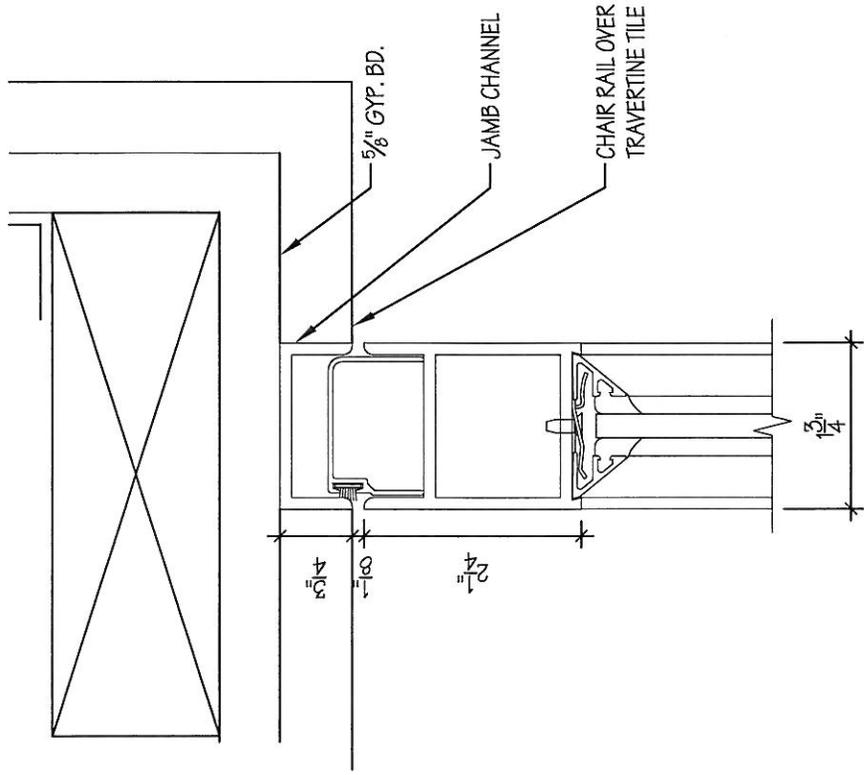
ARCHITECTURE
INTERIORS
PLANNING

ADD #2 PRIVATE OFFICE SIGN
MATC NORTHERN UTAH COUNTY BUILDING

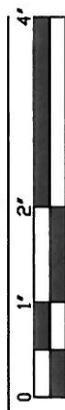
SCALE: 6" = 1'-0"
DATE: Aug 17, 2009
CLIENT PROJ No: 07039260
HFSa PROJ No: 0813.01



E1 SLIDING GLASS DOOR DETAIL HEAD
 SCALE: 6" = 1'-0"
 0 1' 2' 4'



D1 SLIDING GLASS DOOR DETAIL JAMB
 SCALE: 6" = 1'-0"

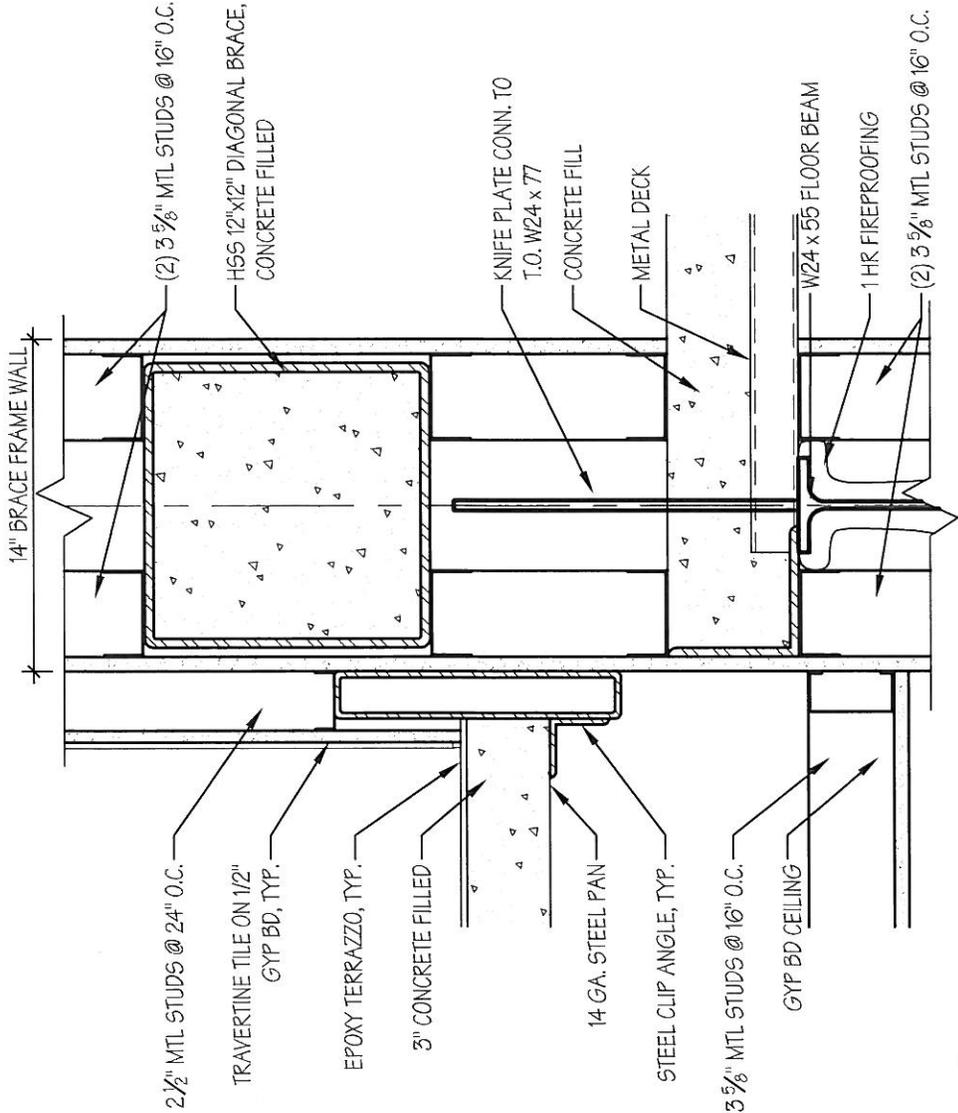


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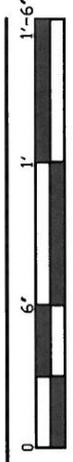
ARCHITECTURE
 INTERIORS
 PLANNING

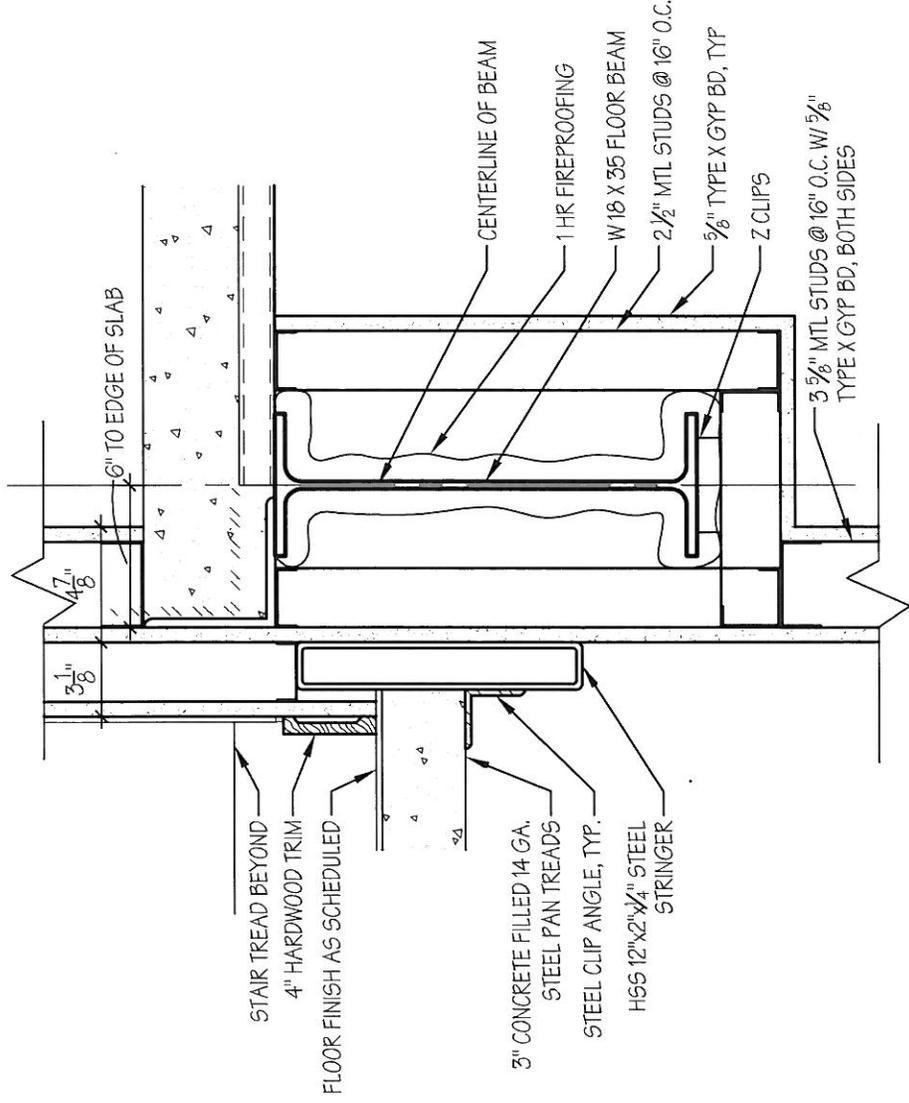
ADD #2 SLIDING GLASS DOOR DETAIL
MATC NORTHERN UTAH COUNTY BUILDING

SCALE: 6" = 1'-0"
 DATE: Aug 17, 2009
 CLIENT PROJ No: 07039260
 HFSa PROJ No: 0813.01

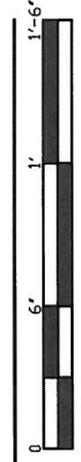


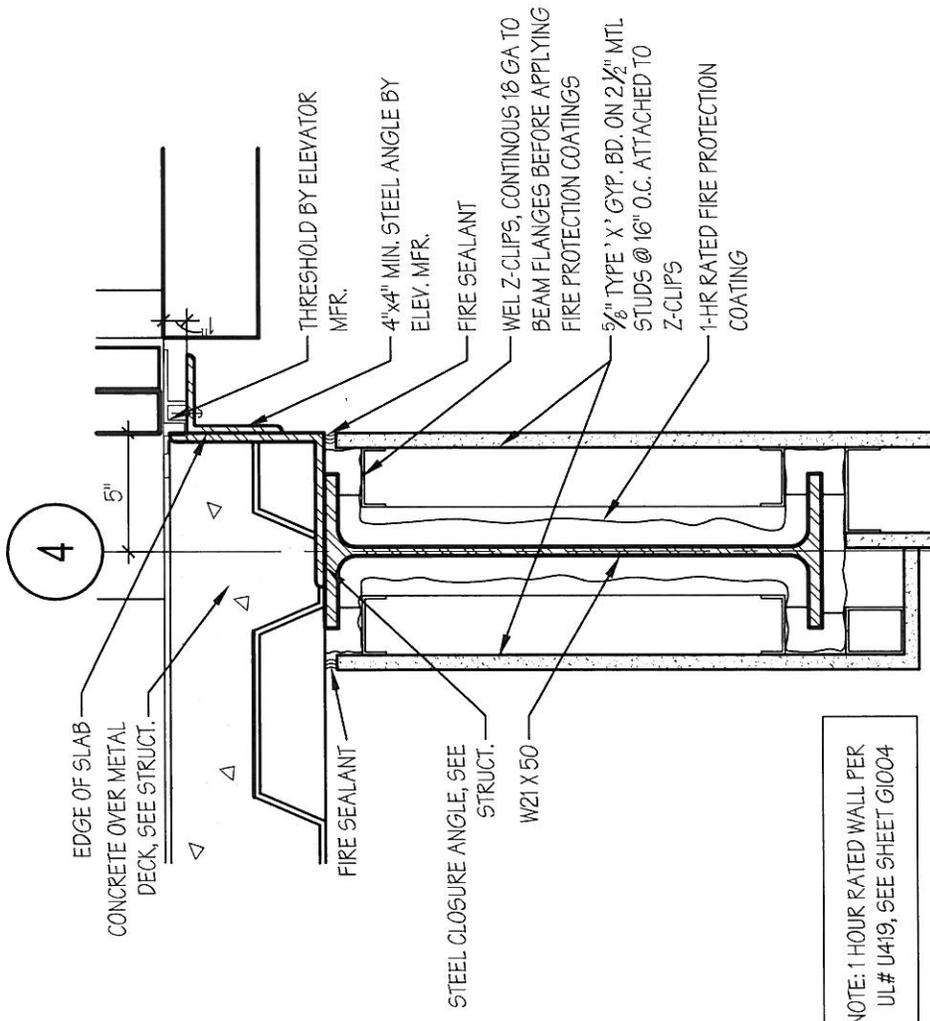
E3 STAIR DETAIL
SCALE: 1 1/2" = 1'-0"





D3 STAIR DETAIL
SCALE: 1 1/2" = 1'-0"

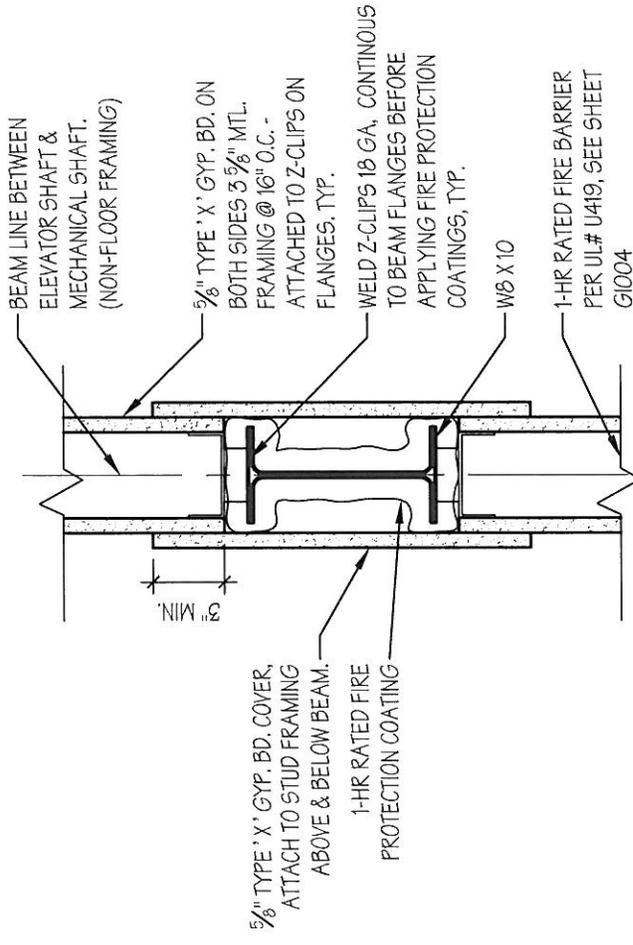




NOTE: 1 HOUR RATED WALL PER
UL# J419; SEE SHEET G1004

C6 ELEVATOR DETAIL
SCALE: 1 1/2" = 1'-0"





B2 FIRE PROTECTION @ SHAFT BEAMS

SCALE: 1 1/2" = 1'-0"

