



State of Utah

GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lt. Governor

Department of Administrative Services

KIMBERLY K. HOOD  
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON  
Director

## ADDENDUM NO. 6

Date: December 23, 2010

To: Short-Listed Contractors

<u>Company</u>	<u>Contact</u>	<u>Fax</u>
Big-D Construction	Kelly Hyvonen	801-415-6903
Jacobsen Construction	Blake Court	801-973-7496
Layton Construction	Bruce McDonough	801-563-4811
Okland Construction	Russell Butler	801-486-7570

From: Matthias Mueller

Reference: Holland Centennial Commons  
Dixie State College – St. George, Utah  
DFCM Project No. 06297640

Subject: Addendum No. 6

Pages	Addendum Cover Sheet	1 page
	<u>Revised Project Schedule</u>	<u>1 page</u>
	Total	2 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.

**6.1 SCHEDULE CHANGES: There are changes to the project schedule. Please see attached schedule.**



**REVISED – VBS PROJECT SCHEDULE  
PER ADDENDUM NO. 6 – DATED DECEMBER 23, 2010**

**PROJECT NAME: DIXIE STATE COLLEGE - HOLLAND CENTENNIAL COMMONS  
DFCM PROJECT NO. 06297640**

<b>Event</b>	<b>Day</b>	<b>Date</b>	<b>Time</b>	<b>Place</b>
Request for Proposals and Construction Documents Available	Tuesday	November 2, 2010	Noon	DFCM 4110 State Office Bldg SLC, UT and the DFCM web site *
<b>Mandatory</b> Pre-Proposal Site Meeting	Thursday	November 11, 2010	10:00 AM	Dixie State College Gardner Center Conf Room D St. George, Utah
Last Day to Submit Questions prior to submittal of Statements of Qualifications	Friday	November 19, 2010	4:00 PM	Matthias Mueller Email: <a href="mailto:mmueller@utah.gov">mmueller@utah.gov</a> Fax: 8015383267
Addendum Deadline	Monday	November 22, 2010	4:00 PM	DFCM web site *
Prime Contractors turn in References, Statements of Qualifications, Management Plans (including Schedule), and Termination/Debarment Certifications	Tuesday	November 30, 2010	4:00 PM	DFCM 4110 State Office Bldg SLC, UT
Short Listing by Selection Committee (if applicable)	Monday	December 6, 2010	To be determined	To be determined
Last Date to Submit Questions for Final Addendum	<b>Wednesday</b>	<b>January 5, 2011</b>	<b>4:00 PM</b>	Matthias Mueller Email: <a href="mailto:mmueller@utah.gov">mmueller@utah.gov</a> Fax: 8015383267
Final Addendum Deadline (exception for bid delays)	<b>Monday</b>	<b>January 10, 2011</b>	<b>4:00 PM</b>	DFCM web site *
Prime Contractors Turn In Cost Proposals and Cost Reduction Proposals	<b>Wednesday</b>	<b>January 19, 2011</b>	<b>12:00 Noon</b>	DFCM 4110 State Office Bldg SLC, UT
Subcontractor List Due with a written basis for subcontractor selection (see paragraph 21D of this RFP)	<b>Thursday</b>	<b>January 20, 2011</b>	<b>12:00 Noon</b>	DFCM 4110 State Office Bldg SLC, UT Fax 801-538-3677
Interviews	<b>Tuesday</b>	<b>January 25, 2011</b>	<b>To be determined</b>	To be determined
Announcement	<b>Wednesday</b>	<b>January 26, 2011</b>	<b>4:00 PM</b>	DFCM web site *
Substantial Completion Date	Friday	July 20, 2012		

\* DFCM's web site address is <http://dfcm.utah.gov>.



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Executive Director

Division of Facilities Construction and Management

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Director

## ADDENDUM NO. 7

Date: January 3, 2011

To: Short-Listed Contractors

<u>Company</u>	<u>Contact</u>	<u>Fax</u>
Big-D Construction	Kelly Hyvonen	801-415-6903
Jacobsen Construction	Blake Court	801-973-7496
Layton Construction	Bruce McDonough	801-563-4811
Okland Construction	Russell Butler	801-486-7570

From: Matthias Mueller

Reference: Holland Centennial Commons  
Dixie State College – St. George, Utah  
DFCM Project No. 06297640

Subject: **Addendum No. 7**

Pages	Addendum Cover Sheet	1 page
	<u>Architect's Addendum No. 007</u>	48 pages
	Total	49 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.

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

7.2 **GENERAL ITEMS:** See attached Architect's Addendum No. 007 dated December 30, 2010.

## Addendum 007

<b>project:</b>	Dixie Centennial Commons	<b>project no:</b>	09625
<b>date:</b>	2010-12-30	<b>no. pages:</b>	48
<b>owner:</b>	Dixie State College		
<b>contractor:</b>			
<b>submittal date:</b>	2011-01-19	<b>submittal time:</b>	12:00 pm

This Addendum shall be considered part of the Contract Documents and Project Manual for the above mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents and Project Manual, the Addendum shall govern and take precedence.

### General:

Item	Description
7.1	The General Contractor will choose where the mock-up will be placed on the construction site. It would be preferable if the mock-up were close to the General Contractor's job trailer, and the mock-up will need to remain in place for the duration of the project, because it will continually be referenced for quality of work. The mock-up shall be oriented with the faced as per noted on Sheet G-501. The mock-up will be tested for air and water tightness by the project's commissioning agent (or a designated representative of the commissioning agent).
7.2	Keynote 935 - change to read: "INTEGRATED FUNCTIONAL GYPSUM BOARD REVEAL RAIL, SEE DETAIL B1/A520 FOR REVEAL AT BOTTOM OF WHITE BOARD; SEE DETAIL C1/A520 FOR REVEAL AT TOP OF WHITE BOARD."

### Drawings:

Item	Description
7.1	SHEET A111.0  The slab thickness listed in the slab legend as 6 ½" shall be changed to read 6".
7.2	Sheet A111.1  The floor of the Tunnel Access (116C) west of the stair into the mechanical room shall be poured integrally with the footings and be at the same height (98'-0"). The turn-down footing at the west side of the stair shall terminate this floor slab.

7.3	<p>SHEET A111.3</p> <p>Revise the following General Finish Notes:</p> <p>1 - Note #3 to read "All painted steel bracing and columns to receive W17" in lieu of "All painted steel bracing and columns to be painted XXX unless noted otherwise."  2 - Note #25: Delete  3 - Note #12 to read: "Provide tile W15: 4x4 ceramic wall tile at all janitor sinks. Provide tile bullnose to finish off all exposed edges." In lieu of "Provide tile XXX: 4x4 ceramic wall tile at all janitor sinks. Provide tile bullnose to finish off all exposed edges."  4 - Note 16 to read: "All hollow metal door frames to receive W16." in lieu of "All hollow metal door frames to be XXX."</p> <p>Revise the following Finish Legend Notes:</p> <p>5 - Add finish W21 "tile" to the finish legend  6 - Level 1 lobby 125: Finish tag addressing base finish to read B6 in lieu of B4.  7 - Level 1 public hallway off the elevator lobby 103: Finish tag addressing base finish to read B6 in lieu of B4.  8 - Mechanical 116: Finish tag addressing base finish to read B1 in lieu of B2.  9 - Concession Stand 126: Finish tag addressing wall finish to read W21 in lieu of W22 north, south east and west wall.</p> <p>Revise the following Sign Call-Outs:</p> <p>10 - Add the following signs: 1.15, 1.87, 1.90, 1.91, 1.93, 1.102, 1.103  See the attached sheets for locations.</p>
7.4	<p>SHEET A121.3</p> <p>Revise the following Finish Notes:</p> <p>1 - Level 2 lobby 219: Finish tag addressing base finish to read B6 in lieu of "-".  2 - Dixie Heritage: Finish tag addressing base finish to read B6 in lieu of B4.  3 - Café 247: Finish tag addressing wall finish to read W21 in lieu of W22 north, south, east and west wall.  4 - Library 235: At elevator lobby 203, The wall between the monitor and column to receive graphic GR1.  5 - Library 234: Finish tag addressing the wall finish to read W3 in lieu of W1, north wall.</p> <p>Revise the following Sign Call-Outs:</p> <p>6 - Add the following signs: 2.4, 2.5, 2.7, 2.18, 2.56  See the attached sheets for locations.</p>
7.5	<p>SHEET A122.3</p> <p>Revise the following Finish Notes:</p> <p>1 - Room 294M: Finish tag addressing wall finish to read W2 in lieu of W1, south, east and west wall.  2 - Room 290M: Finish tag addressing wall finish to read W5 in lieu of W2, north wall.</p>

7.6	<p>SHEET A131.1</p> <p>1- The detail callout "C6/A580 TYP" at the embedded rail at the floor for the mobile shelving shall be deleted. The correct callout is the "C5/A580 TYP" that is noted on this sheet.</p> <p>2 - The room called out as "COMPACT STORAGE 335" is also known as "SPECIAL COLLECTIONS 335." The name "SPECIAL COLLECTIONS" is referred to in specification section 105626.</p>
7.7	<p>SHEET A131.3</p> <p>Add the following Sign Call-Outs: 3.63, 3.64. See the attached sheets for locations.</p>
7.8	<p>SHEET A151.3</p> <p>1 - Circulation 576: Furred out wall below monitor to receive W3 all sides.</p> <p>2 - Add the following Sign Call-Outs: 5.131, 5.132. See the attached sheets for locations</p>
7.9	<p>SHEET A204</p> <p>1 - The "T.O. CONC." elevations listed on drawings "A1," "A3," and A5" are to the top of the concrete shelf that the stone will rest upon.</p> <p>2 - Detail A5/A204: The notation that reads "T.O. Conc." 103'-6" shall be changed to read; "T.O. Conc." 103'-4".</p> <p>In addition to that change, the dimension that reads - 3'-6" shall be changed to read - 3'-4".</p> <p>3 - Add the following Keynotes to page A204.</p> <ul style="list-style-type: none"> <li>304 Thickened Reinforced Slab</li> <li>305 Reinforced Concrete Stairs</li> <li>310 Architectural Concrete Wall</li> <li>400 4 x 24H x 60L Nominal Guillotine Cut Stone Masonry</li> <li>401 4 x 12H x Random Length Mix Nominal Pitched Stone Masonry, Provide Mix of 50% 12, 20% Each 8 &amp; 16 and 10% 4.</li> <li>406 Stone Masonry</li> <li>519 Steel Pipe Bollard, Painted, See Detail A5-AS501</li> <li>523 1 ½" Dia. Stainless Steel Pipe Handrail, Typ.</li> <li>524 1 ½" Dia. Stainless Steel Pipe Guardrail, Typ.</li> <li>724 Pre-Finished Cont. Standing Seam Metal Coping System</li> <li>800 Door and Frame</li> <li>2602 Generator W/ Housekeeping Pad</li> <li>3102 Finish Grade</li> <li>3206 Gate, See Detail C6-AS501</li> </ul>
7.10	<p>SHEET A415</p> <p>A5/A415 - The keynote "612" should be changed to "611".</p>
7.11	<p>SHEET A427</p> <p>1 - Elevation E2 all sides and interior shelving to be WV1.</p> <p>2 - Elevation E3 and E4: base of counter to receive WV1, Countertop to receive QTZ1.</p>
7.12	<p>SHEETS A512, A513 and A514</p> <p>The mineral wool insulation in the detail views is drawn at approximately 3" thick. In order to achieve the required R-19 at these panels, the actual insulation thickness will need to be approximately 5" thick. The cavity of the panel support system will be filled with insulation.</p>

7.13	<p>SHEET A513</p> <p>1 - Detail E3/A513 - The concrete curb noted as - "6" CONCRETE CURB" shall be modified to read "8" CONCRETE CURB."</p> <p>2 - Detail B1/A513 - The bolted connection shown on this detail may at the Contractor's option be welded if the air/vapor barrier can be demonstrated to be continuous and uninterrupted by this modification in attachment methods.</p>
7.14	<p>SHEET A514</p> <p>1- Detail D4 - Replace the original detail with the attached detail D4/A514.</p> <p>2- Detail C2 - Modify the note that reads "SHOP APPLIED MINERAL WOOL INSULATION R-12" to read "SHOP APPLIED MINERAL WOOL INSULATION R-19"</p>
7.15	<p>SHEET A520</p> <p>1 - Detail B1, C1, and B2 The vertical reveal detail shown in detail B2 shall run continuously through the reveal assembly shown on details B1 and C1. Metal joint material to be cut true and square at the intersection so that a complete metal to metal joint is the result at all intersections.</p> <p>2 - Detail B3 - Add the following note to this detail: At the Contractor's option the backing plates may be done with wood blocking as described in specification section 06 1050 - Rough Carpentry.</p>
7.16	<p>SHEET A570</p> <p>1 - Reference desk C2: Call out for plastic laminate to read wood veneer.</p> <p>2 - Reference desk C3: Call out for plastic laminate to read wood veneer.</p>
7.17	<p>SHEET A622</p> <p>The glazing shown on window type C213/A622 shall be modified as follows: The glazing shown as "E1T" shall be ½" white spandrel glass, tempered, this glazing shall receive a vinyl graphic the same height as the "JT" glazing to the east; the glazing shown as "E1" shall remain ¼" White Spandrel.</p>
7.18	<p>SHEET 650</p> <p>See the attached revised sheet.</p>
7.19	<p>SHEET 651</p> <p>See the attached revised sheet.</p>
7.20	<p>SHEET 652</p> <p>See the attached revised sheet.</p>
7.21	<p>SHEET 653</p> <p>See the attached revised sheet.</p>
7.22	<p>SHEET A660</p> <p>1 - D1/A660 is to be titled "SIGN TYPE P - BUILDING PLAQUE".</p> <p>2 - See the attached revised A2/A660 Add a general note to A2/A660 that states: "Refer to Door Schedule Sheet A610 and Elevations A611, A612, A620, A622, A623 and A624 for locations of "Applied vinyl Graphic Signage on Glass by Division 10 on Interior Glass". These locations are not included in the Signage Schedule but are to be provided by the Signage Contractor. The Architect is to provide a digital file of all graphics."</p>

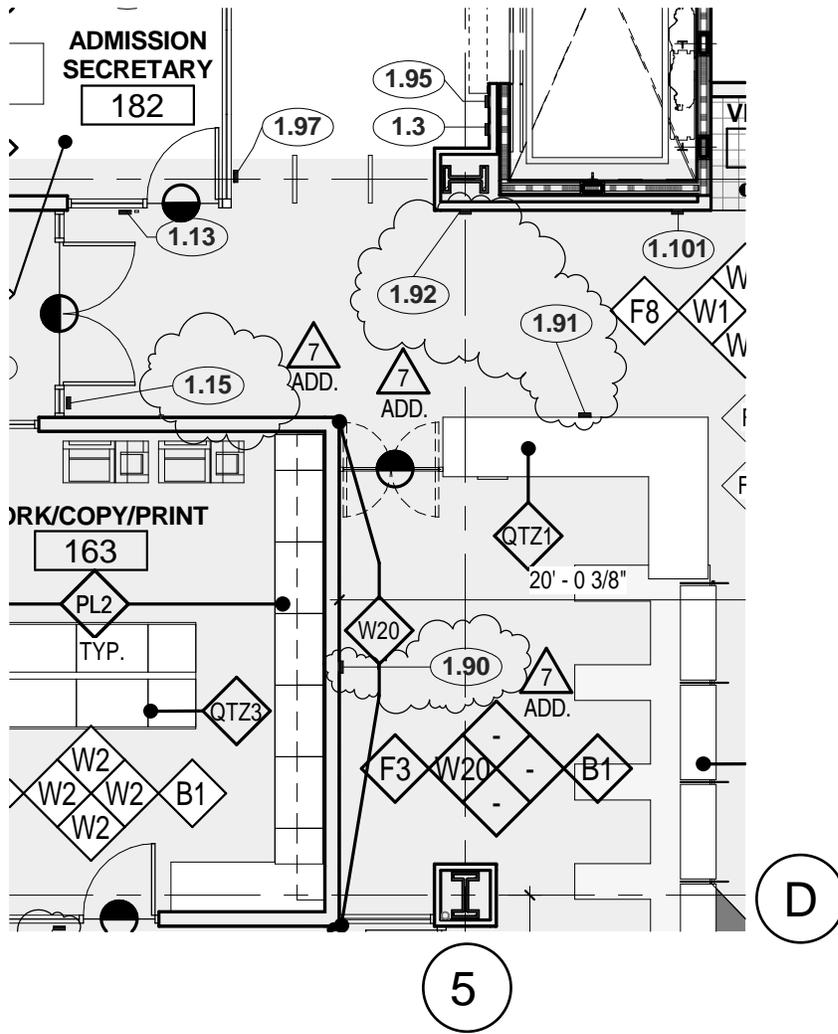
7.23	<p>SHEET S111</p> <ol style="list-style-type: none"> <li>1. The concrete wall on gridline "A" between grids "4" and "5" shall be changed from a designation of "CW-12" to be a "CW12A."</li> <li>2. The concrete pier noted as "CP4" at gridlines "5" and "C" shall be situated so that the north face of this pier is aligned with the south wall of the elevator core wall.</li> <li>3. At Room 116 there shall be an additional housekeeping pad shown to match the pad shown on Sheet A111.0. Coordinate size and location of pad with the mechanical equipment</li> </ol>
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**Specifications:**

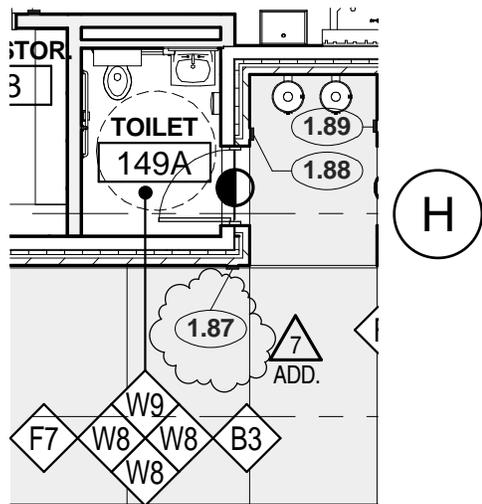
Item	Description
7.1	<p>SECTION 01 2100 - ALLOWANCES Add a section 3.3.F - Allowance No. 6 - Section 142100 "Electric Traction Elevator"</p> <ol style="list-style-type: none"> <li>1. Contractor, if bidding elevators other than the Kone Basis of Design product which do not conform to the shaft heights and/or size provided in the base bid design, shall include an allowance of \$23,851.00 to cover costs associated with modifications to the design as originally shown in the Contract Documents. See specification section 142100.1.5.C for further information.</li> </ol>
7.2	<p>SECTION 01 5721 - INDOOR AIR QUALITY (IAQ) MANAGEMENT Eliminate paragraph 3.1.D. HVAC system may be used for ventilation during construction if the proper precautions are taken as described in specification section 23 0529 and other paragraphs of section 01 5721.</p>
7.3	<p>DIVISION 9 - FINISH SCHEDULE 1. W11 to read: "Daltile, Fabrique Gris P690 Linen P687 light polish 12x12" in lieu of "NA", 2. As clarification: F1-F5 should be on state contract. Note under manufacture to read "Shaw: State contract number MA2097" in lieu of "Shaw MA2097".</p>
7.4	<p>SECTION 09 9100 - PAINTING Add the following to paragraphs 3.7 and 3.8: "All paint products shall conform to VOC limits as outlined in Division 1 Section "Volatile Organic Compound (VOC) Content Restrictions, and in paragraph 1.3.A of this section. Specific paint names are furnished as a performance standard; Contractor shall provide paint products meeting all criteria, including, but not limited to, durability, coverage, color consistency, and VOC content." 09 9100.3.8.H - Delete the reference to a second and third coat application. The application is to be done in one coat with the final mil finish thickness to be a total of 4.5 mils.</p>
7.5	<p>SECTION 11 5123 - CANTILEVER SHELVING Add the following: The cantilevered shelving in rooms 360 and 335 shall consist of 84? uprights. The rows at the end of the mobile shelving units are stationary platforms that will have the ability to hold books.</p>

7.6	<p><b>SECTION 32 1300 - CEMENT CONCRETE PAVEMENT</b>  Add the following:</p> <p>Paragraph 1.4.D: "D. Samples: Samples for Color Selection: Submit color additive manufacturer's sample chip set; indicate color additive numbers and required dosage rates."</p> <p>Paragraph 1.5.F: "F. Colored Concrete Mock-Up:  1. At location on Project site selected by Architect, place and finish minimum 4 x 4 feet area (but no less than a typical module in the paving system) for each color selected. Demonstrate methods of obtaining consistent visual appearance, including materials, workmanship, and curing method to be used in throughout the Project.  2. Retain samples of cements, sands, aggregates, and color additives used in mock-up for comparison with materials used in remaining Work.  3. Accepted mock-up shall provide a visual standard for work of this Section.  4. Mock-up may remain as part of the Work, if undamaged at Substantial Completion and if an exact match to adjoining concrete work, including joints."</p> <p>Paragraph 2.10:  <b>"2.10 INTEGRALLY COLORED CONCRETE</b>  A. Color Pigment: ASTM C 979, synthetic mineral-oxide pigments or colored water-reducing admixtures; color stable, free of carbon black, non-fading, and resistant to lime and other alkalis.  B. Available Manufacturers: Subject to compliance with requirements, manufacturers include, but are not limited to, the following:  1. Bayferrox by Lanxess, a division of Bayer Corporation.  2. Davis Colors  3. Scofield, L. M. Company  4. Solomon Colors, Inc.  C. Colors shall be selected by Architect from manufacturer's full range."</p>
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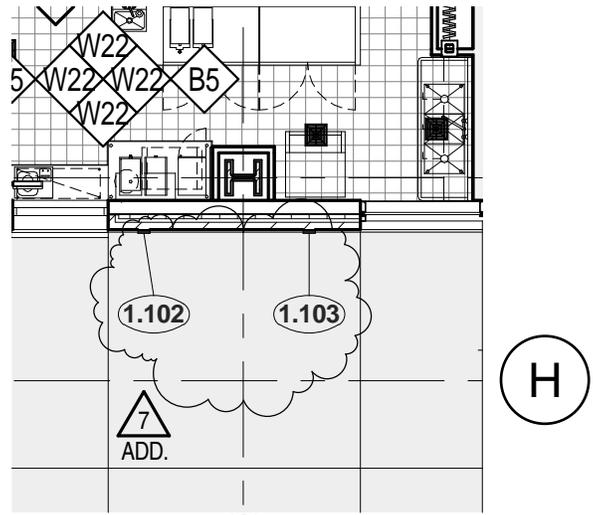
End of Addendum 007



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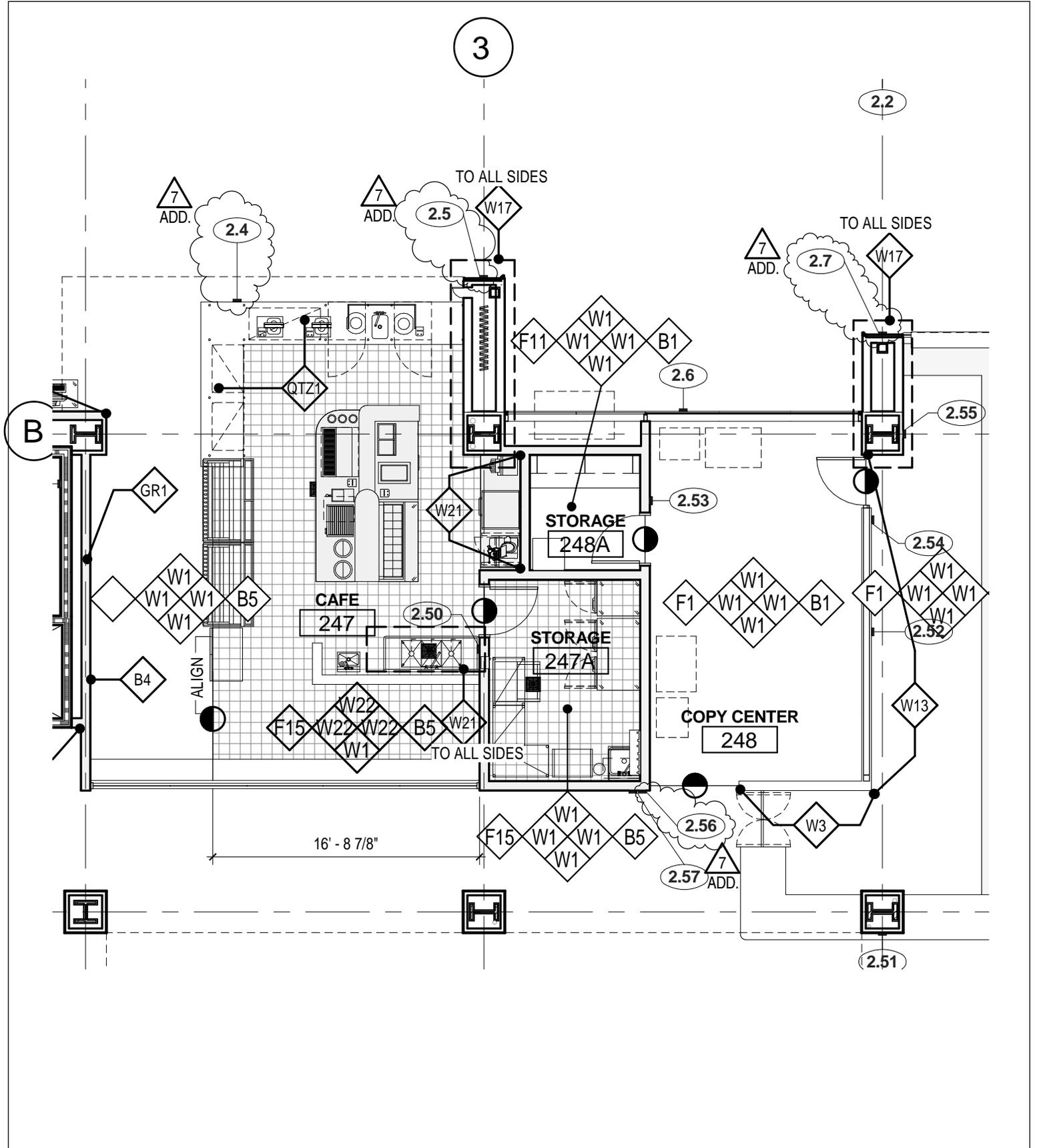


HOLLAND CENTENNIAL COMMONS

DIXIE STATE COLLEGE OF UTAH

**SHEET A111.3**  
**ADDENDUM #7**

Project number	09625	..
Date	Issue Date	
Drawn by	Author	
Checked by	Checker	Scale

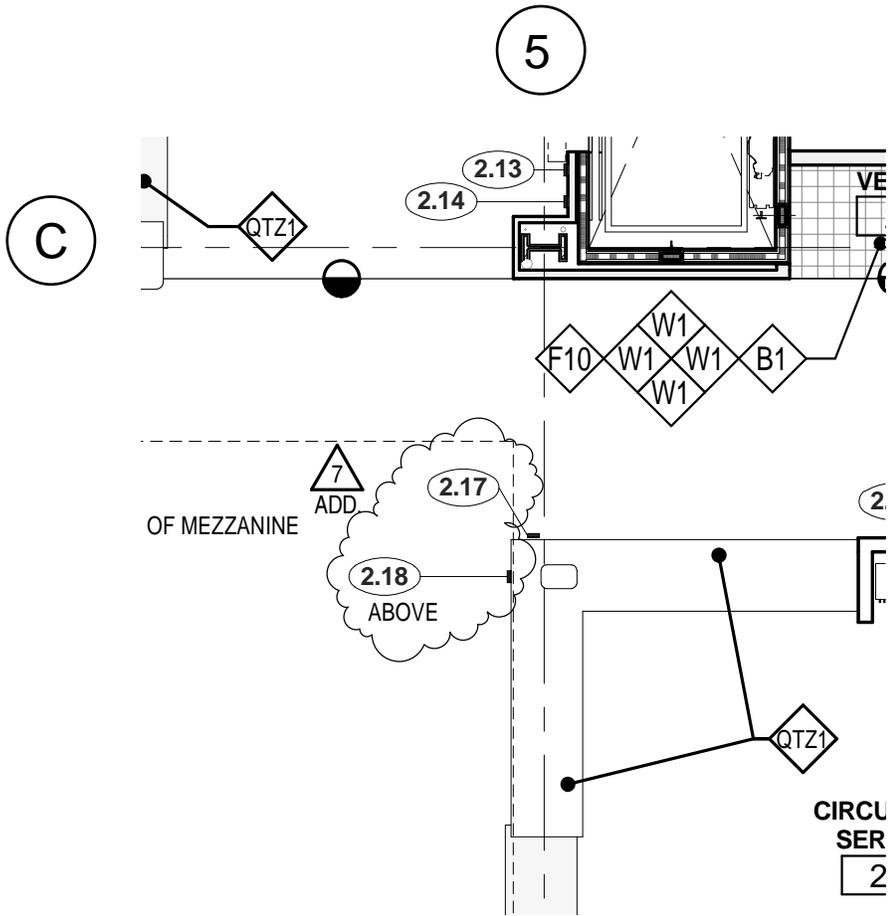


HOLLAND CENTENNIAL COMMONS

DIXIE STATE COLLEGE OF UTAH

**SHEET A121.3  
ADDENDUM #7**

Project number	09625	..
Date	Issue Date	
Drawn by	Author	Scale
Checked by	Checker	

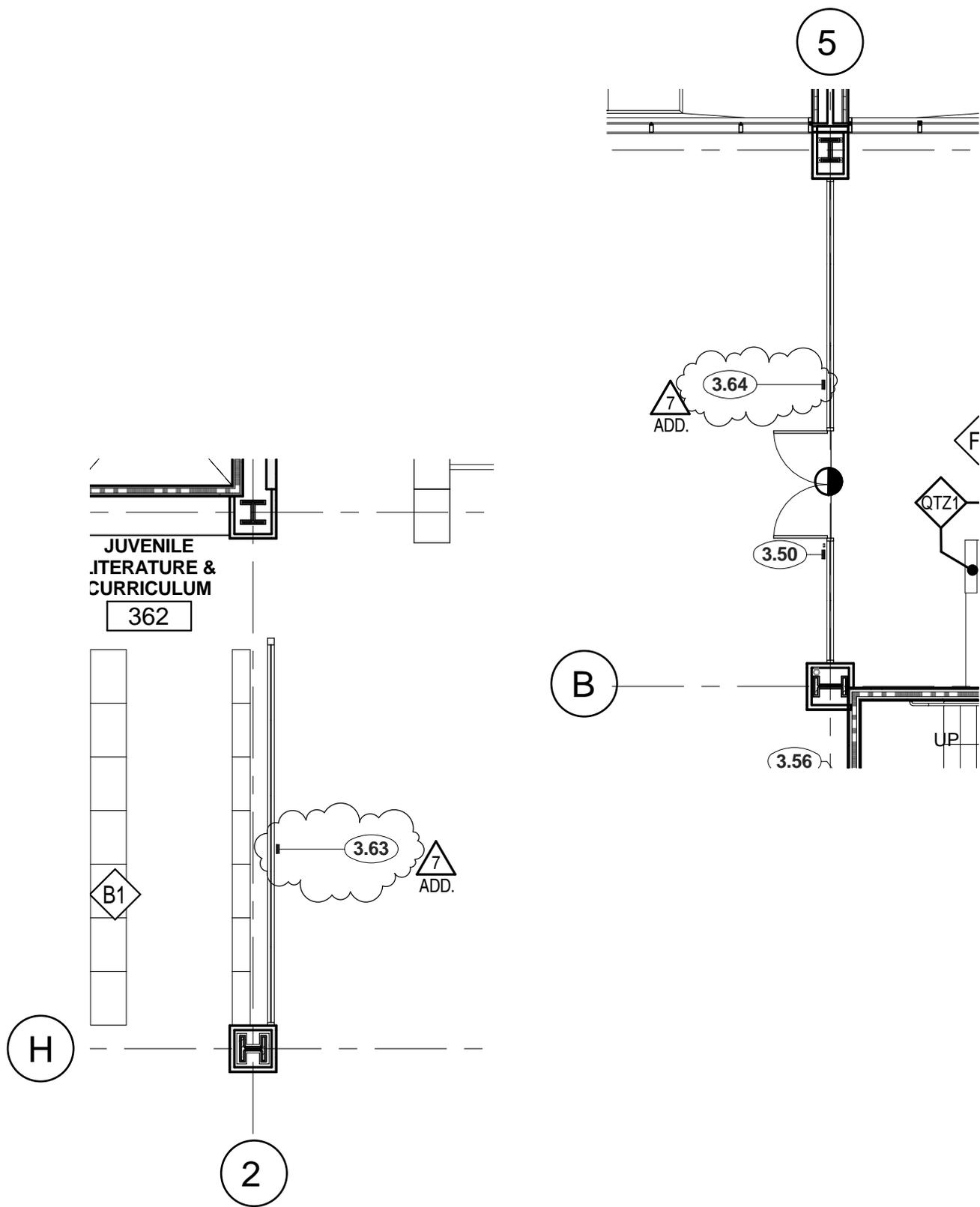


HOLLAND CENTENNIAL COMMONS

DIXIE STATE COLLEGE OF UTAH

**SHEET A121.3  
ADDENDUM #7**

Project number	09625	..
Date	Issue Date	
Drawn by	Author	
Checked by	Checker	Scale

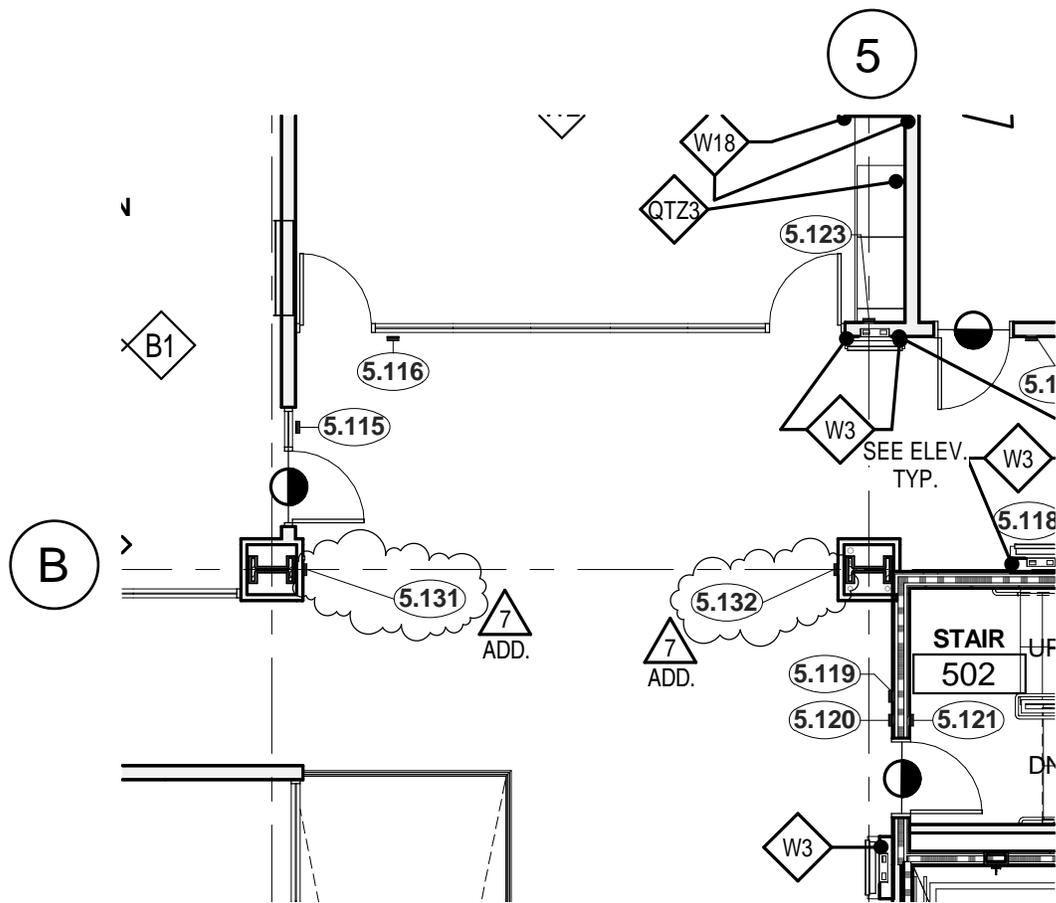


HOLLAND CENTENNIAL COMMONS

DIXIE STATE COLLEGE OF UTAH

**SHEET A131.3  
ADDENDUM #7**

Project number	09625	..
Date	Issue Date	
Drawn by	Author	Scale
Checked by	Checker	

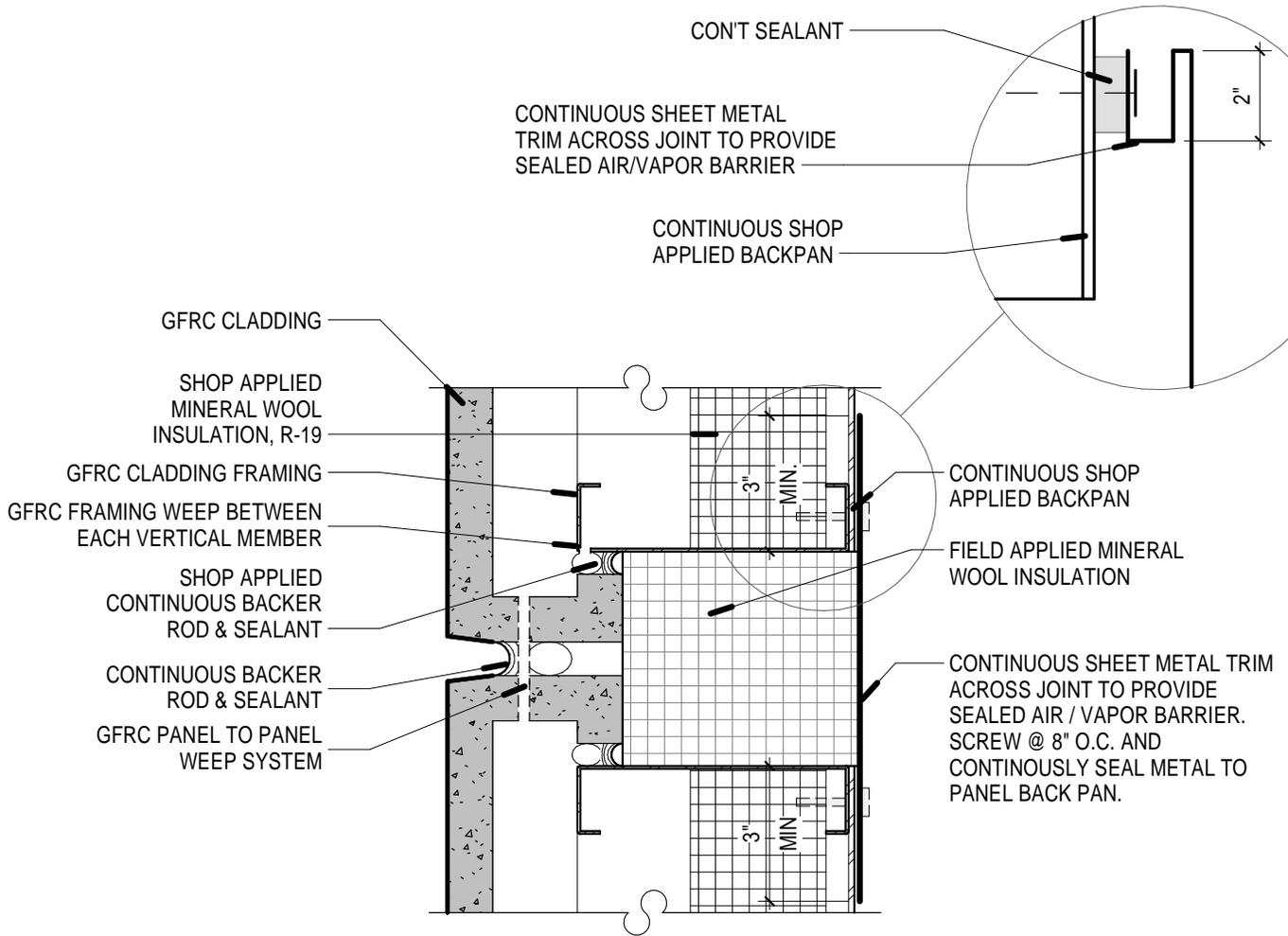


HOLLAND CENTENNIAL COMMONS

DIXIE STATE COLLEGE OF UTAH

**SHEET A151.3  
ADDENDUM #7**

Project number	09625	..
Date	Issue Date	
Drawn by	Author	
Checked by	Checker	Scale



NOTE: CONTRACTOR TO INSURE AIR TIGHT JOINT

D4

## GFRC PANEL JOINT

SCALE: 3" = 1'-0"



HOLLAND CENTENNIAL COMMONS

DIXIE STATE COLLEGE OF UTAH

**SHEET A514  
ADDENDUM #7**

Project number	09625	..
Date	Issue Date	
Drawn by	Author	
Checked by	Checker	

Scale

SIGNAGE SCHEDULE LEVEL 01						
Mark	Arch. Room Number	Sign Type	Blank Back	Sign Room Number	Sign Text	Sign Notes
1.1	125	H	No		MAX OCCUPANCY ###	
1.2	106	A	No	OWNER PROVIDED	ELECTRICAL ROOM	
1.3	103	J	No		ELEVATOR	
1.4	122	R	No		RESTROOMS	ARCH. TO PROVIDE DIGITAL FILE OF TEXT 12" FONT
1.5	122	D	No		WOMENS	
1.6	124	E	No		MENS	
1.7	124	E	No		MENS	
1.8	124	S	No		TO BE PROVIDED	ARCH. TO PROVIDE DIGITAL FILE OF GRAPHIC 18" X 18"
1.9	122	S	No		TO BE PROVIDED	ARCH. TO PROVIDE DIGITAL FILE OF GRAPHIC 18" X 18"
1.10	122	D	No		WOMENS	
1.11	120	A	No	OWNER PROVIDED	STORAGE	
1.12	116	A	No	OWNER PROVIDED	MECHANICAL ROOM	
1.13	182	A	Yes	OWNER PROVIDED	ADMISSIONS	
1.14	181	A	Yes	OWNER PROVIDED	WELCOME ROOM	
1.15	160	A	Yes	OWNER PROVIDED	STUDENT SERVICES	
1.16	163	A	Yes	OWNER PROVIDED	WORK ROOM	
1.17	184	B	Yes	OWNER PROVIDED	OFFICE	
1.18	186	B	Yes	OWNER PROVIDED	OFFICE	
1.19	188	B	Yes	OWNER PROVIDED	OFFICE	
1.20	194	B	Yes	OWNER PROVIDED	OFFICE	
1.21	192	B	Yes	OWNER PROVIDED	OFFICE	
1.22	190	A	Yes	OWNER PROVIDED	RECRUITMENT	
1.23	181	A	No	OWNER PROVIDED	ADMISSIONS	
1.24	183	B	Yes	OWNER PROVIDED	OFFICE	
1.25	185	B	Yes	OWNER PROVIDED	OFFICE	
1.26	187	B	Yes	OWNER PROVIDED	OFFICE	
1.27	189	B	Yes	OWNER PROVIDED	OFFICE	
1.28	191	B	Yes	OWNER PROVIDED	OFFICE	
1.29	193	B	Yes	OWNER PROVIDED	OFFICE	
1.30	116	A	No	OWNER PROVIDED	ELECTRICAL ROOM	
1.31	195	A	Yes	OWNER PROVIDED	OPEN OFFICE	
1.32	196	B	Yes	OWNER PROVIDED	OFFICE	
1.33	198	B	Yes	OWNER PROVIDED	OFFICE	
1.34	175	B	Yes	OWNER PROVIDED	OFFICE	
1.35	177	B	Yes	OWNER PROVIDED	OFFICE	
1.36	169	B	Yes	OWNER PROVIDED	OFFICE	
1.37	167	A	Yes	OWNER PROVIDED	MEETING ROOM	
1.38	165	B	Yes	OWNER PROVIDED	OFFICE	
1.39	163	A	Yes	OWNER PROVIDED	WORK ROOM	
1.40	151	A	No	OWNER PROVIDED	CASHIERS	
1.41	166	B	Yes	OWNER PROVIDED	CASHIERS	
1.42	156	A	No	OWNER PROVIDED	PREP ROOM	
1.43	172	B	Yes	OWNER PROVIDED	OFFICE	
1.44	168	B	Yes	OWNER PROVIDED	OFFICE	
1.45	174	B	Yes	OWNER PROVIDED	OFFICE	
1.46	113	A	No	OWNER PROVIDED	ELECTRICAL ROOM	
1.47	162	A	Yes	OWNER PROVIDED	CONFERENCE ROOM	
1.48	162	A	No	OWNER PROVIDED	CONFERENCE ROOM	
1.49	164	A	No	OWNER PROVIDED	STORAGE	
1.50	149	A	No	OWNER PROVIDED	SECURE STORAGE	
1.51	107	J	No		ELEVATOR	
1.52	112	E	No		MENS	
1.53	112	E	No		MENS	
1.54	112	R	No		TO BE PROVIDED	ARCH. TO PROVIDE DIGITAL FILE OF GRAPHIC 18" X 18"
1.55	110	D	No		WOMENS	
1.56	110	D	No		WOMENS	
1.57	112	R	No		TO BE PROVIDED	ARCH. TO PROVIDE DIGITAL FILE OF GRAPHIC 18" X 18"
1.58	108	K	No		LEVEL 1	
1.59	108	K	No		LEVEL 1	

SIGNAGE SCHEDULE LEVEL 01						
Mark	Arch. Room Number	Sign Type	Blank Back	Sign Room Number	Sign Text	Sign Notes
1.60	112	R	No		RESTROOMS	
1.61	145	A	No	OWNER PROVIDED	BUILDING LOADING	ARCH. TO PROVIDE DIGITAL FILE OF TEXT 12" FONT
1.62	148	A	No	OWNER PROVIDED	CUSTODIAL	
1.63	144	L	No		EXIT	
1.64	142	A	No	OWNER PROVIDED	STORAGE	
1.65	140	B	Yes	OWNER PROVIDED	OFFICE	
1.66	138	B	Yes	OWNER PROVIDED	OFFICE	
1.67	136	B	Yes	OWNER PROVIDED	OFFICE	
1.68	134	B	Yes	OWNER PROVIDED	OFFICE	
1.69	132	B	Yes	OWNER PROVIDED	OFFICE	
1.70	141	B	Yes	OWNER PROVIDED	OFFICE	
1.71	139	B	Yes	OWNER PROVIDED	OFFICE	
1.72	137	B	Yes	OWNER PROVIDED	OFFICE	
1.73	135	B	Yes	OWNER PROVIDED	OFFICE	
1.74	135	B	Yes	OWNER PROVIDED	OFFICE	
1.75	131	B	Yes	OWNER PROVIDED	OFFICE	
1.76	125	L	Yes		EXIT	
1.77	126	S	No		TO BE PROVIDED	ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 25 CHARACTERS 20" FONT
1.78	126	A	No	OWNER PROVIDED	CONCESSIONS	
1.79	130	A	Yes	OWNER PROVIDED	RECEPTION	
1.80	154	B	Yes	OWNER PROVIDED	OFFICE	
1.81	151	S	No		CASHIERS	
1.82	154	A	No	OWNER PROVIDED	STORAGE	ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 20" FONT
1.83	153	A	Yes	OWNER PROVIDED	WORKROOM	
1.84	153A	A	No	OWNER PROVIDED	STORAGE	
1.85	152	B	Yes	OWNER PROVIDED	OFFICE	
1.86	152	S	No		TO BE PROVIDED	ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 15 CHARACTERS 20" FONT
1.87	144	Q	No	OWNER PROVIDED	RESTROOMS	8" FONT
1.88	149A	F	No		RESTROOM	
1.89	149B	F	No		RESTROOM	
1.90	160	R	Yes			
1.91	160	S	Yes			
1.92	160	S	Yes			
1.93	116A	A	No	OWNER PROVIDED	TRANSFORMER YARD	
1.94	117A	A	No	OWNER PROVIDED	TRANSFORMER YARD	
1.95	103	M	No			
1.96	144	R	No		LIBRARY UPSTAIRS	ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 12" FONT
1.97	182	S	No		ADMISSIONS	ARCH. TO PROVIDE DIGITAL FILE OF TEXT 12" FONT
1.98	130	R	No		ADVISING	ARCH. TO PROVIDE DIGITAL FILE OF TEXT 12" FONT
1.99	154	R	No		FINANCIAL AID	ARCH. TO PROVIDE DIGITAL FILE OF TEXT 12" FONT
1.100	162	H	No		MAX OCCUPANCY ###	
1.101	106	R	No		VENDING	ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 12" FONT
1.102	126	Q	Yes		CONCESSIONS	8" FONT
1.103	126	Q	Yes		TO BE PROVIDED	30 CHARACTERS - 18" FONT



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HOLLAND CENTENNIAL COMMONS

DIXIE STATE COLLEGE OF UTAH  
DFCM #06297940  
DIXIE COLLEGE, ST. GEORGE, UT  
CONFORMED CONSTRUCTION DOCUMENTS BID SET

No.	Description	Date
7	ADD.	12.30.2010

Job #	09625
CAD File	
Drawn	Author
Checked	Checker
Date	12/03/2010
Owner #	
Ins. #	

SIGNAGE SCHEDULE



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HOLLAND CENTENNIAL COMMONS DIXIE STATE COLLEGE OF UTAH DFCM #06297940 DIXIE COLLEGE, ST. GEORGE, UT CONFORMED CONSTRUCTION DOCUMENTS BID SET

Table with columns: Mark, Arch. Room Number, Sign Type, Blank Back, Sign Room Number, Sign Text, Sign Notes. It is divided into three sections: SIGNAGE SCHEDULE LEVEL 02, SIGNAGE SCHEDULE LEVEL 02 MEZZANINE, and SIGNAGE SCHEDULE LEVEL 03. The table contains numerous rows of sign specifications, including room numbers, sign types (A, B, C, J, K, L, M, S), and notes such as 'TO BE PROVIDED', 'OWNER PROVIDED', and 'ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 15 CHARACTERS 20" FONT'.

Table with columns: No., Description, Date. Row 7: 7 ADD. 12.30.2010

Job # 09625 CAD File Drawn Author Checked Checker Date 12/03/2010 Owner Ins. #

SIGNAGE SCHEDULE

A651 Sheet Number

12/30/2010 3:04:20 PM

12/30/2010 3:04:25 PM

SIGNAGE SCHEDULE LEVEL 04						
Mark	Arch. Room Number	Sign Type	Blank Back	Sign Room Number	Sign Text	Sign Notes
4.1	403	J	No		ELEVATOR	
4.2	403	M	No			
4.3	469	A	Yes	OWNER PROVIDED	CONFERENCE ROOM	
4.4	406	A	No	OWNER PROVIDED	ELECTRICAL ROOM	
4.5	404	A	No	OWNER PROVIDED	DATA ROOM	
4.6	465	A	Yes	OWNER PROVIDED	FACULTY SUITE	
4.7	469	A	Yes	OWNER PROVIDED	CONFERENCE ROOM	
4.8	443	A	No	OWNER PROVIDED	STORAGE ROOM	
4.9	444	B	Yes	OWNER PROVIDED	OFFICE	
4.10	462	B	Yes	OWNER PROVIDED	OFFICE	
4.11	445	B	Yes	OWNER PROVIDED	OFFICE	
4.12	447	B	Yes	OWNER PROVIDED	OFFICE	
4.13	446	B	Yes	OWNER PROVIDED	OFFICE	
4.14	443	B	Yes	OWNER PROVIDED	OFFICE	
4.15	448	B	Yes	OWNER PROVIDED	OFFICE	
4.16	449	B	Yes	OWNER PROVIDED	OFFICE	
4.17	464	A	Yes	OWNER PROVIDED	WORK ROOM	
4.18	450	B	Yes	OWNER PROVIDED	OFFICE	
4.19	451	B	Yes	OWNER PROVIDED	OFFICE	
4.20	461	A	Yes	OWNER PROVIDED	FACULTY LOUNGE	
4.21	452	B	Yes	OWNER PROVIDED	OFFICE	
4.22	453	B	Yes	OWNER PROVIDED	OFFICE	
4.23	454	B	Yes	OWNER PROVIDED	OFFICE	
4.24	455	B	Yes	OWNER PROVIDED	OFFICE	
4.25	456	B	Yes	OWNER PROVIDED	OFFICE	
4.26	457	A	Yes	OWNER PROVIDED	COLLABORATIVE LOUNGE	
4.27	459	F	No		REST ROOM	
4.28	458	F	No		REST ROOM	
4.29	457	A	No	OWNER PROVIDED	COLLABORATIVE LOUNGE	
4.30	472	A	No	OWNER PROVIDED	LEVEL 4	
4.31	472	A	No	OWNER PROVIDED	STAIR	
4.32	471	C	Yes	OWNER PROVIDED	CLASSROOM	
4.33	471	C	Yes	OWNER PROVIDED	CLASSROOM	
4.34	475	C	Yes	OWNER PROVIDED	CLASSROOM	
4.35	475	C	Yes	OWNER PROVIDED	CLASSROOM	
4.36	476	C	Yes	OWNER PROVIDED	CLASSROOM	
4.37	470	C	Yes	OWNER PROVIDED	CLASSROOM	
4.38	470	C	Yes	OWNER PROVIDED	CLASSROOM	
4.39	476	C	Yes	OWNER PROVIDED	CLASSROOM	
4.40	477	C	Yes	OWNER PROVIDED	CLASSROOM	
4.41	477	C	Yes	OWNER PROVIDED	CLASSROOM	
4.42	478	A	Yes	OWNER PROVIDED	STUDY ROOM	
4.43	479	A	Yes	OWNER PROVIDED	STUDY ROOM	
4.44	402	K	No		LEVEL 4	
4.45	402	G	No		IN CASE OF FIRE	
4.46	402	K	No		LEVEL 4	
4.47	431	A	Yes	OWNER PROVIDED	TUTORING	
4.48	432	B	Yes	OWNER PROVIDED	OFFICE	
4.49	433	B	Yes	OWNER PROVIDED	OFFICE	
4.50	438	A	Yes	OWNER PROVIDED	TUTORING ROOM	
4.51	437	A	Yes	OWNER PROVIDED	TUTORING ROOM	
4.52	436	A	Yes	OWNER PROVIDED	TUTORING ROOM	
4.53	435	A	Yes	OWNER PROVIDED	TUTORING ROOM	
4.54	430	A	Yes	OWNER PROVIDED	CONFERENCE ROOM	
4.55	421	A	Yes	OWNER PROVIDED	WRITING CENTER	
4.56	480	A	Yes	OWNER PROVIDED	STUDY ROOM	
4.57	422	B	Yes	OWNER PROVIDED	OFFICE	
4.58	420	A	Yes	OWNER PROVIDED	CONFERENCE ROOM	
4.59	426	A	Yes	OWNER PROVIDED	CONFERENCE ROOM	
4.60	420	A	Yes	OWNER PROVIDED	CONFERENCE ROOM	
4.61	418	B	Yes	OWNER PROVIDED	OFFICE	
4.62	417	B	Yes	OWNER PROVIDED	OFFICE	
4.63	416	B	Yes	OWNER PROVIDED	OFFICE	
4.64	425	B	Yes	OWNER PROVIDED	OFFICE	

SIGNAGE SCHEDULE LEVEL 04						
Mark	Arch. Room Number	Sign Type	Blank Back	Sign Room Number	Sign Text	Sign Notes
4.65	424	B	Yes	OWNER PROVIDED	OFFICE	
4.66	423	A	Yes	OWNER PROVIDED	STUDY ROOM	
4.67	401	G	Yes		IN CASE OF FIRE	
4.68	401	K	Yes		LEVEL 4	
4.69	401	K	Yes		LEVEL 4	
4.70	493	A	Yes	OWNER PROVIDED	STUDY ROOM	
4.71	491	A	Yes	OWNER PROVIDED	STUDY ROOM	
4.72	490	A	Yes	OWNER PROVIDED	STUDY ROOM	
4.73	489	A	Yes	OWNER PROVIDED	STUDY ROOM	
4.74	488	A	Yes	OWNER PROVIDED	STUDY ROOM	
4.75	487	A	Yes	OWNER PROVIDED	STUDY ROOM	
4.76	413	A	No	OWNER PROVIDED	ELECTRICAL ROOM	
4.77	414	A	No	OWNER PROVIDED	DATA ROOM	
4.78	412	R	No		RESTROOMS	ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 12" FONT
4.79	277M	E	No		MENS	
4.80	277M	E	No		MENS	
4.81	412	R	No		TO BE PROVIDED	ARCH. TO PROVIDE DIGITAL FILE OF GRAPHIC 18" X 18"
4.82	411	A	No	OWNER PROVIDED	CUSTODIAL	
4.83	410	R	No		TO BE PROVIDED	ARCH. TO PROVIDE DIGITAL FILE OF GRAPHIC 18" X 18"
4.84	410	D	No		WOMENS	
4.85	410	D	No		WOMENS	
4.86	409	A	No	OWNER PROVIDED	STORAGE ROOM	
4.87	408	G	Yes		IN CASE OF FIRE	
4.88	408	K	Yes		LEVEL 4	
4.89	408	K	Yes		LEVEL 4	
4.90	407	J	Yes		ELEVATOR	
4.91	460	A	No	OWNER PROVIDED	CHILDRENS LITERATURE LIBRARY	
4.92	482	A	Yes	OWNER PROVIDED	STUDY ROOM	
4.93	481	A	Yes	OWNER PROVIDED	STUDY ROOM	
4.94	486	H	Yes		MAX OCCUPANCY ###	
4.95	430	H	Yes		MAX OCCUPANCY ###	
4.96	405	R	No		VENDING	ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 12" FONT



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**HOLLAND CENTENNIAL COMMONS**  
 DIXIE STATE COLLEGE OF UTAH  
 DFCM #06297640  
 DIXIE COLLEGE, ST. GEORGE, UT  
 CONFORMED CONSTRUCTION DOCUMENTS BID SET

No.	Description	Date
7	ADD.	12.30.2010

Job # 09625  
 CAD File  
 Drawn Author Checked Checker  
 Date 12/03/2010  
 Owner #  
 Ins. #

SIGNAGE SCHEDULE

A652  
Sheet Number

SIGNAGE SCHEDULE LEVEL 05						
Mark	Arch. Room Number	Sign Type	Blank Back	Sign Room Number	Sign Text	Sign Notes
5.1	503	J	No		ELEVATOR	
5.2	503	M	No		ELEVATOR	
5.3	506	A	No	OWNER PROVIDED	ELECTRICAL ROOM	
5.4	537	A	No	OWNER PROVIDED	ZION ROOM SUPPORT	
5.5	539	A	No	OWNER PROVIDED	STORAGE ROOM	
5.6	539	A	No	OWNER PROVIDED	CATERING	
5.7	539	A	No	OWNER PROVIDED	CATERING	
5.8	58	A	Yes	OWNER PROVIDED	I.T. DEPARTMENT	
5.9	541	A	No	OWNER PROVIDED	TRAINING LAB	
5.10	541A	A	No	OWNER PROVIDED	CONTROL ROOM	
5.11	541A	A	No	OWNER PROVIDED	CONTROL ROOM	
5.12	542	A	No	OWNER PROVIDED	DEVELOPMENT/RECORDING LAB	
5.13	543	A	No	OWNER PROVIDED	CONFERENCE ROOM	
5.14	544	A	Yes	OWNER PROVIDED	I.T. SUITE	
5.15	504	A	No	OWNER PROVIDED	DATA ROOM	
5.16	545	B	Yes	OWNER PROVIDED	OFFICE	
5.17	546	B	Yes	OWNER PROVIDED	OFFICE	
5.18	547	B	Yes	OWNER PROVIDED	OFFICE	
5.19	544	A	No	OWNER PROVIDED	I.T. SUITE	
5.20	544	A	No	OWNER PROVIDED	I.T. SUITE	
5.21	556	B	Yes	OWNER PROVIDED	OFFICE	
5.22	555	B	Yes	OWNER PROVIDED	OFFICE	
5.23	554	B	Yes	OWNER PROVIDED	OFFICE	
5.25	557	A	Yes	OWNER PROVIDED	OFFICE SUITE	
5.26	567	B	Yes	OWNER PROVIDED	OFFICE	
5.27	566	B	Yes	OWNER PROVIDED	OFFICE	
5.28	565	B	Yes	OWNER PROVIDED	OFFICE	
5.29	558	A	Yes	OWNER PROVIDED	CONFERENCE ROOM	
5.30	559	B	Yes	OWNER PROVIDED	OFFICE	
5.31	564	B	Yes	OWNER PROVIDED	OFFICE	
5.32	560	B	Yes	OWNER PROVIDED	OFFICE	
5.33	561	B	Yes	OWNER PROVIDED	OFFICE	
5.35	557A	A	Yes	OWNER PROVIDED	OFFICE SUITE	
5.36	563	B	Yes	OWNER PROVIDED	OFFICE	
5.37	562	B	Yes	OWNER PROVIDED	OFFICE	
5.38	568	A	Yes	OWNER PROVIDED	OPEN OFFICE	
5.39	569	A	No	OWNER PROVIDED	MOTHERS ROOM	
5.40	568	A	Yes	OWNER PROVIDED	OPEN OFFICE	
5.41	553	A	No	OWNER PROVIDED	SECURE STORAGE	
5.42	552	A	No	OWNER PROVIDED	WORK ROOM	
5.43	552A	A	No	OWNER PROVIDED	CHECKS	
5.44	551	A	Yes	OWNER PROVIDED	BUSINESS SERVICES	
5.45	550	A	Yes	OWNER PROVIDED	CONFERENCE ROOM	
5.46	550	A	Yes	OWNER PROVIDED	CONFERENCE ROOM	
5.47	570	A	Yes	OWNER PROVIDED	CONFERENCE ROOM	
5.48	571	A	Yes	OWNER PROVIDED	LEADERS RECEPTION	
5.49	586	A	No	OWNER PROVIDED	OFFICE SUITE	
5.50	572	B	Yes	OWNER PROVIDED	OFFICE	
5.51	573	B	Yes	OWNER PROVIDED	OFFICE	
5.52	570	A	Yes	OWNER PROVIDED	CONFERENCE ROOM	
5.53	574	B	Yes	OWNER PROVIDED	OFFICE	
5.54	575	B	Yes	OWNER PROVIDED	OFFICE	
5.55	576	B	Yes	OWNER PROVIDED	OFFICE	
5.56	577	B	Yes	OWNER PROVIDED	OFFICE	
5.57	578	B	Yes	OWNER PROVIDED	OFFICE	
5.58	579	B	Yes	OWNER PROVIDED	OFFICE	
5.59	580	B	Yes	OWNER PROVIDED	OFFICE	
5.60	581	B	Yes	OWNER PROVIDED	OFFICE	
5.61	581	B	Yes	OWNER PROVIDED	OFFICE	
5.62	583	B	Yes	OWNER PROVIDED	OFFICE	
5.63	584	A	Yes	OWNER PROVIDED	OFFICE	
5.64	585	B	Yes	OWNER PROVIDED	OFFICE	
5.65	588A	F	No		ASSISTED USE RESTROOM	

SIGNAGE SCHEDULE LEVEL 05						
Mark	Arch. Room Number	Sign Type	Blank Back	Sign Room Number	Sign Text	Sign Notes
5.66	588	A	Yes	OWNER PROVIDED	BREAK ROOM	
5.67	508	J	No		ELEVATOR	
5.68	508	K	No		LEVEL 5	
5.69	508	K	No		LEVEL 5	
5.70	508	G	No		IN CASE OF FIRE	
5.71	507A	A	No	OWNER PROVIDED	CUSTODIAL	
5.72	510	D	No		WOMENS	
5.73	510	D	No		WOMENS	
5.74	510	R	No		TO BE PROVIDED	ARCH. TO PROVIDE DIGITAL FILE OF GRAPHIC 18" X 18"
5.75	511	A	No	OWNER PROVIDED	CUSTODIAL	
5.76	512	R	No		TO BE PROVIDED	ARCH. TO PROVIDE DIGITAL FILE OF GRAPHIC 18" X 18"
5.77	512	E	No		MENS	
5.78	512	E	No		MENS	
5.79	512	R	No		RESTROOMS	ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 12" FONT
5.80	590	A	No	OWNER PROVIDED	DATA	
5.81	513	A	No	OWNER PROVIDED	ELECTRICAL ROOM	
5.82	583	A	No	OWNER PROVIDED	ELEVATOR SUPPORT	
5.83	514	A	No	OWNER PROVIDED	DATA ROOM	
5.84	590	A	No	OWNER PROVIDED	I.T. OFFICE SUITE	
5.85	598	A	No	OWNER PROVIDED	DATA CENTER	
5.86	590	A	No	OWNER PROVIDED	DATE CENTER PREP.	
5.87	591	B	Yes	OWNER PROVIDED	OFFICE	
5.88	592	B	Yes	OWNER PROVIDED	OFFICE	
5.89	593	B	Yes	OWNER PROVIDED	OFFICE	
5.90	594	B	Yes	OWNER PROVIDED	OFFICE	
5.91	595	B	Yes	OWNER PROVIDED	OFFICE	
5.92	596	B	Yes	OWNER PROVIDED	OFFICE	
5.93	597	A	Yes	OWNER PROVIDED	I.T. DEPARTMENT	
5.94	598A	A	No	OWNER PROVIDED	DATA CENTER	
5.95	598A	A	No	OWNER PROVIDED	DATA CENTER	
5.96	597	A	No	OWNER PROVIDED	I.T. DEPARTMENT	
5.97	501	G	No		IN CASE OF FIRE	
5.98	501	K	No		IN CASE OF FIRE	
5.99	501	K	No		IN CASE OF FIRE	
5.100	529	A	No	OWNER PROVIDED	CAREER CENTER LAB	
5.101	530	B	No	OWNER PROVIDED	OFFICE	
5.102	529	B	Yes	OWNER PROVIDED	OFFICE	
5.103	531	B	Yes	OWNER PROVIDED	OFFICE	
5.104	516	B	Yes	OWNER PROVIDED	OFFICE	
5.105	517	B	Yes	OWNER PROVIDED	OFFICE	
5.106	524	A	Yes	OWNER PROVIDED	INTERVIEW ROOM	
5.107	524	A	Yes	OWNER PROVIDED	INTERVIEW ROOM	
5.108	519	B	Yes	OWNER PROVIDED	OFFICE	
5.109	520	B	Yes	OWNER PROVIDED	OFFICE	
5.110	526	B	Yes	OWNER PROVIDED	INTERVIEW ROOM	
5.111	526	B	Yes	OWNER PROVIDED	INTERVIEW ROOM	
5.112	528	A	No	OWNER PROVIDED	STORAGE	
5.113	521	B	Yes	OWNER PROVIDED	OFFICE	
5.114	518	B	Yes	OWNER PROVIDED	OFFICE	
5.115	523	A	Yes	OWNER PROVIDED	CAREER CENTER	
5.116	535	A	Yes	OWNER PROVIDED	CONFERENCE ROOM	
5.117	536	A	No	OWNER PROVIDED	CONFERENCE ROOM	
5.118		A	No	OWNER PROVIDED	ELEVATOR	
5.119	502	G	No		IN CASE OF FIRE	
5.120	502	K	No		LEVEL 5	
5.121	502	K	No		LEVEL 5	
5.122	550	H	No		MAX OCCUPANCY ###	
5.123	535	H	No		MAX OCCUPANCY ###	
5.124	536	H	No		MAX OCCUPANCY ###	
5.125	537	H	No		MAX OCCUPANCY ###	
5.126	505	R	No		VENDING	ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 12" FONT
5.127	512	H	No		ASSISTED USE RESTROOM LOCATED IN BREAKROOM ###	
5.128	571	S	No		BUSINESS SERVICES	ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 12" FONT
5.129	537	T	No		ASSISTIVE LISTENING DEVICES ABAILABLE AT CIRCULATION DESK	
5.130	550	T	No		ASSISTIVE LISTENING DEVICES ABAILABLE AT CIRCULATION DESK	
5.131	523	R	No		CAREER CENTER	ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 20" FONT
5.132	576	R	No		ZION ROOM	ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 20" FONT
5.133	597	R	No		DATA CENTER	ARCH. TO PROVIDE DIGITAL FILE OF TEXT - 20" FONT



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DIXIE COLLEGE, ST. GEORGE, UT  
CONFORMED CONSTRUCTION DOCUMENTS BID SET

No.	Description	Date
7	ADD.	12.30.2010

Job # 09625  
CAD File  
Drawn Author Checked Checker  
Date 12/03/2010  
Owner #  
Ins. #

SIGNAGE SCHEDULE

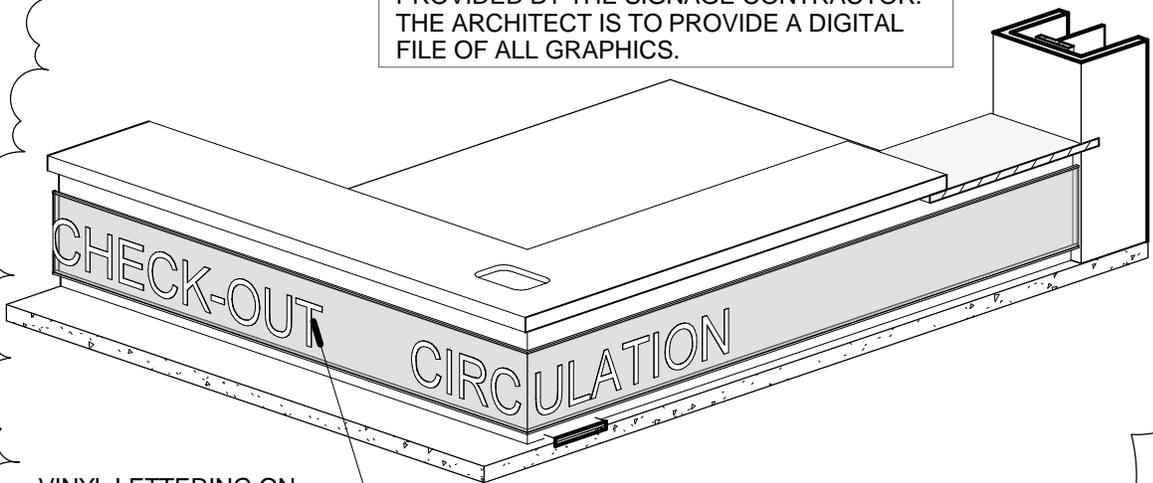
**A653**  
Sheet Number

12/30/2010 3:04:29 PM

C3

7  
ADD.

NOTE:  
REFER TO DOOR SCHEDULE SHEET A610  
AND ELEVATIONS A611, A612, A620, A622,  
A623 AND A624 FOR LOCATIONS OF "APPLIED  
VINYL GRAPHIC SIGNAGE ON GLASS BY  
DIVISION 10 ON INTERIOR GLASS". THESE  
LOCATIONS ARE NOT INCLUDED IN THE  
SIGNAGE SCHEDULE BUT ARE TO BE  
PROVIDED BY THE SIGNAGE CONTRACTOR.  
THE ARCHITECT IS TO PROVIDE A DIGITAL  
FILE OF ALL GRAPHICS.



VINYL LETTERING ON  
GLASS SURFACE.  
COLOR, SIZE, AND  
FONT  
T.B.D. BY ARCHITECT

A2

### SIGN TYPE S

SCALE:

A3



HOLLAND CENTENNIAL COMMONS

DIXIE STATE COLLEGE OF UTAH

**SHEET A660**  
**ADDENDUM #7**

Project number	09625	..
Date	Issue Date	
Drawn by	Author	
Checked by	Checker	Scale

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PS Associates

**Alex Booth VCBO Architecture**

Holland Centennial Commons- Landscape Plans Delta 1  
December 23, 2010

Landscape Delta 1- Affecting sheets L101, L102, L103 and addition of sheet L104

**Sheet L101 PLANTING PLAN**

1. Add Aleppo Pine to plant legend.
2. Add RAC bldg. landscape.
3. Add approximate edge of sod line along each side of fire lane.
4. Add notes to refer to sheet L104 for Whitehead bldg. landscape.

**Sheet L102 IRRIGATION PLAN**

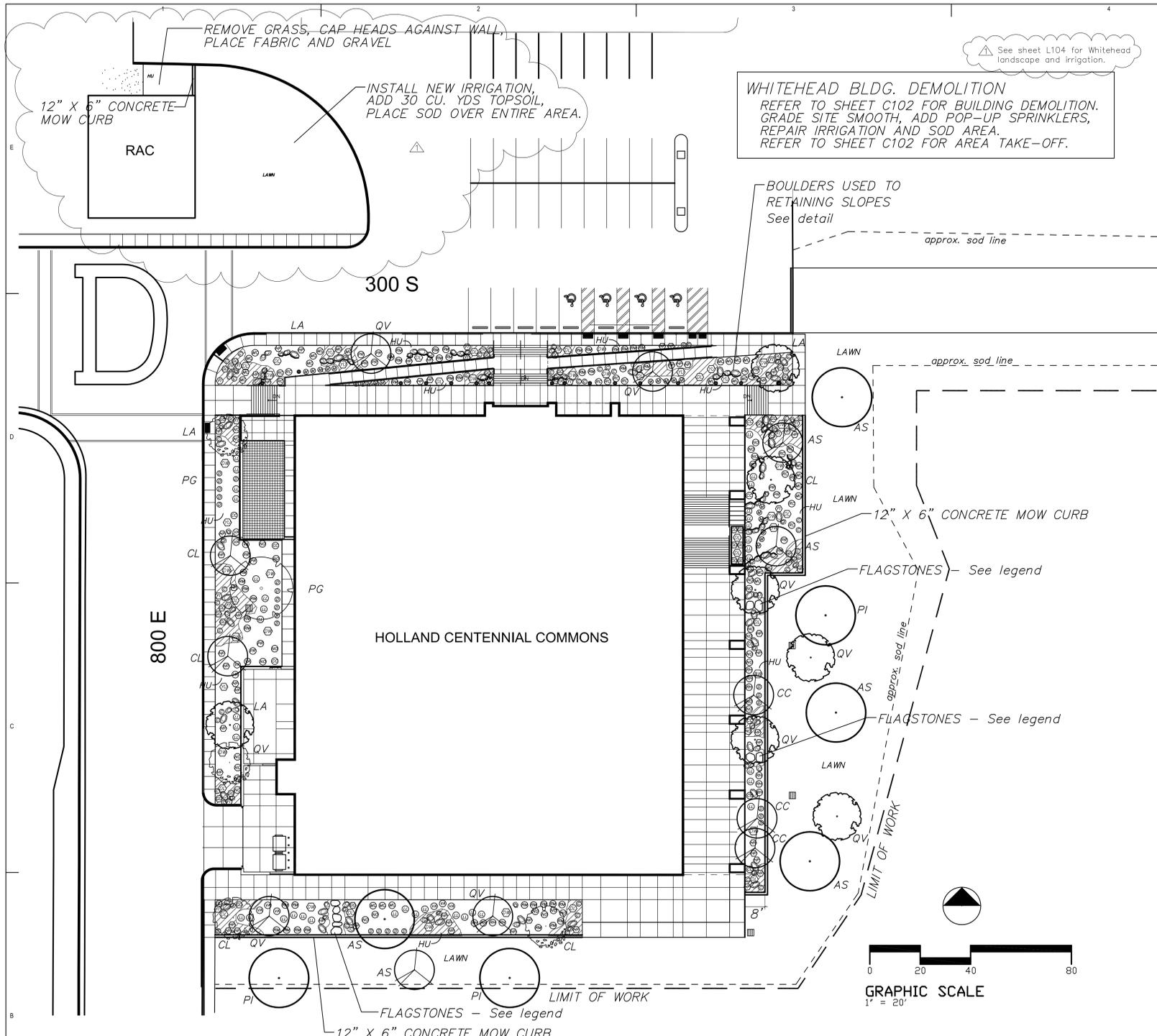
1. Add irrigation at RAC bldg.
2. Add heads along each side of fire lane.
3. Add turf valves, tie into existing heads, add new turf clock.
4. Add notes to repair irrigation laterals at storm sewer line to 400 South corner.
5. Add new wire runs from existing turf valve cluster to new turf clock.
6. Irrigation Legend- Change valves, rotor heads to Rainbird, add clocks, P.O.C. 's.
7. Change drip irrigation system at new building to potable water including backflow device, 1-1/2" mainline, and quick couplers. Sprinkler system for lawn to remain on irrigation water system.

**Sheet L103 LANDSCAPE DETAILS SHEET**

1. Add Detail Q – Reduced Pressure Backflow Valve.
2. Add note to Detail I- Install (2) turf valves per valve box, Green valve boxes to be used in lawn areas.

**Sheet L104 WHITEHEAD SITE IRRIGATION PLAN / PLANTING PLAN**

1. Add sheet to set showing landscape and irrigation of Whitehead bldg. demo site.



**PLANTING PLAN**

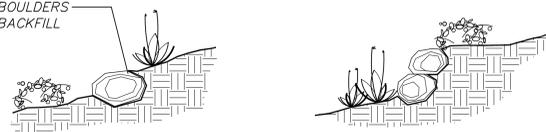
**FINISH GRADING NOTES**

1. PROVISIONS FOR POSITIVE DRAINAGE OF ALL LANDSCAPED AREAS TO TAKE PRECEDENCE OVER MOUNDING AS DIAGRAMMED ON PLANTING PLAN.
2. HOLD FINISH GRAVEL GRADE 1" BELOW FINISH SURFACE.
3. SLOPE ALL EARTHEN AREAS AT A MINIMUM OF 1% TO DRAIN - 2% PREFERRED
4. ALL MATERIALS AND WORKMANSHIP IS TO CONFORM TO GOVERNING CODES AND ORDINANCES
5. HOLD FINISH GRADE A MINIMUM OF 4" BELOW TOP OF RETAINING WALLS, 6" BELOW FINISH FLOORS OF SLABS. MINIMUM 2% SLOPE AWAY FROM BUILDINGS.
6. LANDSCAPE CONTRACTOR IS TO PROVIDE 30 CUBIC YARDS OF CLEAN SANDY SOIL TO CREATE MOUNDS, AND FILL PLANTER AREAS ON SITE. FEATHER MOUNDS INTO SURROUNDING GRADES.

**GENERAL PLANTING NOTES**

1. BEFORE ANY PLANTS ARE PLANTED, ALL PLANTED AREAS ARE TO HAVE BEEN GRADED IN AN ACCEPTABLE MANNER TO ASSURE POSITIVE DRAINAGE PER THE GRADING NOTES.
2. PLANT SHRUBS A MINIMUM OF 30" FROM ANY LANDSCAPE LIGHT FIXTURES.
3. WHERE CIRCUMSTANCES PERMIT, PLANT NO TREE CLOSER THAN 36' TO AN EDGE OF PAVING OR SIDEWALK.
4. PROVIDE ALL SHRUBS, WHICH NEED SUPPORT WITH 1/2" SQUARE REDWOOD STAKES. ONCE INSTALLED, TRIM TOP OF STAKE 6" BELOW TOP OF SHRUB. USE GREEN PLASTIC WIRE TIES.
5. REFER TO PLANTING DETAILS FOR PLANTING INFORMATION AND AMENDMENTS.
6. USE PLANT MATERIAL ACCLIMATED TO THE REGION.
7. WHEN TYING INTO EXISTING LAWN, PROVIDE STRAIGHT CUT EDGE TO BUTT SOD INTO LAWN. FINISH GRADE TO PROVIDE SEAMLESS TRANSITION.

ON SLOPES, CUT BOULDERS INTO SLOPE AND BACKFILL WITH SOIL



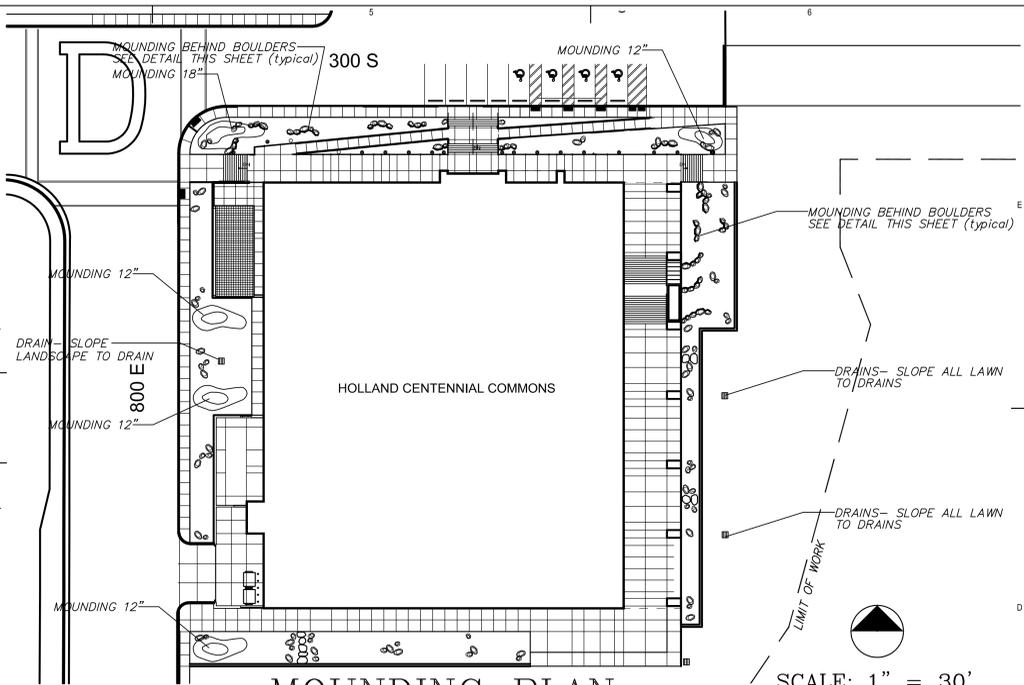
**BOULDER RETAINING / MOUNDING DETAIL**  
not to scale

**GRAPHIC SCALE**  
1" = 20'

**WHITEHEAD BLDG. DEMOLITION**  
REFER TO SHEET C102 FOR BUILDING DEMOLITION. GRADE SITE SMOOTH, ADD POP-UP SPRINKLERS, REPAIR IRRIGATION AND SOD AREA. REFER TO SHEET C102 FOR AREA TAKE-OFF.

BOULDERS USED TO RETAINING SLOPES  
See detail

approx. sod line



**MOUNDING PLAN**

**PLANT LEGEND**

TREES			
SYMBOL	NAME	SIZE	EMITTERS
CL	CHILOPSIS linearis 'Art's Seedless' Seedless Desert Willow - multi trunked	24" box	(5) - 2 GPH
AS	FRAXINUS velutina 'Fan Tex' Fan Tex Ash	24" box	(5) - 2 GPH
PI	PISTACIA chinensis 'Red Push' Red Push Pistache	24" box	(5) - 2 GPH
PG	PROSOPIS glandulosa 'Maverick' Maverick Honey Mesquite	24" box	(5) - 2 GPH
QV	QUERCUS virginiana Live Oak - Low branching	36" box	(5) - 2 GPH
CC	CERCIS canadensis Eastern Redbud - low branching	24" box	(5) - 2 GPH
LA	LAGERSTROEMIA indica Crape Myrtle - Red, multi trunk	36" box	(5) - 2 GPH
PI	PINUS halepensis Aleppo Pine	24" box	(5) - 2 GPH
SHRUBS			
NER	NERIUM oleander Dwarf Red Hardy Dwarf Red Oleander	5 gal	(1) - 2 GPH
LL	LEUCOPHYLLUM langmaniae 'Rio Bravo' Texas Ranger	5 gal	(1) - 2 GPH
PER	PEROVSKIA atriplicifolia Russian Sage	5 gal	(1) - 2 GPH
RH	RHAPHIOLEPIS indica 'Ballerina' Ballerina Indian Hawthorn	5 gal	(2) - 2 GPH
COT	COTINUS cogyria 'Purpureus' Purple Smokebush	5 gal	(2) - 2 GPH
ROS	ROSMARINUS officinalis 'Prostratus' Creeping Rosemary	5 gal	(1) - 2 GPH
ROSA	ROSA x noare Red Carpet Rose	2 gal	(2) - 2 GPH
CHR	CHRYSACTINIA mexicana Damianita	5 gal	(1) - 2 GPH
MYR	MYRTUS communis 'Compacta' Red Carpet Rose	5 gal	(2) - 2 GPH
VAQ	VAQUELINIA californica California Rosewood	5 gal	(1) - 2 GPH
ACCENTS			
DAS	DASYLIRION longissimum Grass Tree	15 gal	(1) - 2 GPH
HES	HESPERALOE parviflora Red Yucca	5 gal	(1) - 2 GPH
DAS	DASYLIRION wheeleri Desert Spoon	15 gal	(1) - 2 GPH
MU	MUHLENBERGIA capillaris 'Regal Mist' Regal Mist Deer Grass	5 gal	(1) - 2 GPH
MIS	MISCANTHUS gracillimus 'Yaku Jima' Maiden Grass	5 gal	(2) - 2 GPH
TR	TRICHOCEREUS imperialis Argentine Saguaro - minimum 3 bulbs	15 gal	(2) - 1 GPH
ECH	ECHINOCACTUS grusonii Golden Barrel Cactus	5 gal	(1) - 1 GPH
FER	FEROCACTUS wislizenii Fishhook Barrel Cactus	5 gal	(1) - 1 GPH
YUC	YUCCA rostrata Beaked Yucca - 3 ft. 2 head	20 gal	(2) - 1 GPH
BOULDERS - TAN SANDSTONE QUARRIED BOULDERS 3 TO 4' DIAMETER VARIED SHAPES MINIMUM 90 TONS, MINIMUM 125 BOULDERS			
FLAGSTONES - BUCKSKIN COLOR MINIMUM 4' X 3' SPACE MINIMUM 4" FROM CONCRETE EDGE AND ONE ANOTHER. HUALAPI RED CHAT IN AND AROUND FLAGSTONES OVER FABRIC.			
HU - DECORATIVE GRAVEL - 3/4" HUALAPI GOLD OR EQUAL, 3" DEPTH - AVAILABLE FROM ROWLAND STONE (435) 673-2349			
ACCENT GRAVEL - 4" APACHE GOLD OR EQUAL, 4" DEPTH - AVAILABLE FROM ROWLAND STONE (435) 673-2349			
ALL PLANTER AREAS TO BE COVERED WITH DEWITT PROS LANDSCAPE FABRIC, SEE DETAIL O.			
LAWN - SOD - Tri-blend Fescue Sod, feather into existing lawn			

PRIOR TO PLANTING MAKE SURE THAT POSITIVE DRAINAGE AWAY FROM BUILDING EXISTS. SEE ENGINEERING PLANS. LAWN AREAS ON EAST SIDE TO SLOPE TOWARD DRAINS.

**VCBO**  
ARCHITECTURE  
VALENTINER  
GRANE  
BRUNES  
O'CONNOR

**SASAKI**

**LANDSCAPE ARCHITECT**  
JOHN J. COSTANZA  
Expires 5/31/12  
Date  
# 97-328108-5317  
STATE OF UTAH

VCBO ARCHITECTURE  
524 SOUTH 600 EAST  
SALT LAKE CITY, UTAH 84102  
Phone: (801) 575-8800  
Fax: (801) 531-9850  
www.vcbo.com

**HOLLAND CENTENNIAL COMMONS**  
DIXIE STATE COLLEGE OF UTAH  
DIXIE COLLEGE, ST. GEORGE, UT  
CONFORMED CONSTRUCTION DOCUMENTS BID SET

No.	Description	Date
1	Add landscape 12/23/10 to RAC bldg., pine	

Job # 09625  
CAD File  
Drawn JJC Checked JJC  
Date 12/03/2010  
Owner #  
Ins. #

PLANTING PLAN

**COSTANZA PS ASSOCIATES**  
John J. Costanza Telephone 435-862-8317  
P.O. Box 3122  
St. George, Utah 84777

**L101**  
Sheet Number

12/01/2010 8:00 PM

GENERAL IRRIGATION NOTES

- ALL POP-UP TYPE SPRINKLER HEADS INSTALLED IN SHRUB OR GROUND COVER AREAS SHALL BE INSTALLED SO THAT THE TOP OF THE SPRINKLER HEAD IS 1" ABOVE FINISH GRADE.
- ALL POP-UP TYPE SPRINKLER HEADS INSTALLED IN LAWN AREAS SHALL BE INSTALLED SO THAT THE TOP OF THE SPRINKLER HEAD IS FLUSH WITH ADJACENT SIDEWALK OR CURB.
- HEADS TO BE SET FLUSH TO TOP OF SOD, LEVEL WITH ADJACENT CONCRETE CURB OR SIDEWALK.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.
- THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE OF 65 PSI AND THE MAXIMUM FLOW OF 30 GPM. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- 120 VOLT ELECTRICAL POWER OUTLET AT THE AUTOMATIC CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE ELECTRICAL OUTLET TO THE AUTOMATIC CONTROLLER.
- THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS, ROADWAYS AND/OR BUILDINGS. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.
- DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- INSTALL ALL PIPE MATERIALS AND EQUIPMENT AS SHOWN IN DETAILS. USE TEFLON TAPE OR TEFLON PIPE DOPE ON ALL PVC MALE PIPE THREADS ON ALL SPRINKLER SWING JOINT AND VALVE ASSEMBLIES.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC.
- DRIP LINE IS SHOWN ON THE PLAN ONLY TO SHOW AREA OF COVERAGE FOR EACH PARTICULAR DRIP VALVE. TAKE OFF OF NEEDED POLY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

IRRIGATION LEGEND

	RAINBIRD	XC2-PRB-100-COM	SERIES ELECTRIC CONTROL VALVE (1") DRIP ASSEMBLY - SEE DETAIL 1 FOR ADDITIONAL INFORMATION.
	RAINBIRD	PESB-PRS-D	SERIES ELECTRIC CONTROL VALVE WITH PRESSURE REGULATOR (SIZE AS NOTED AT VALVE) REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
	NIBCO	T-113	BRASS GATE VALVE WITH BRASS CROSS HANDLE (LINE SIZE) WITH 4" PVC STAND PIPE AND 10" RD GREEN VALVE BOX
	RAINBIRD	3RC	3/4" BRASS QUICK COUPLING VALVE
	TORO	BLUE STRIPE (PLANTS)	3/4" DRIP TUBING - USE 3/4" BARBED FITTINGS WITH STAINLESS STEEL CRIMP RINGS
	TORO	WHITE STRIPE (TREES)	1" SCH. 40 PVC WITH 3/4" DRIP TUBING - USE 3/4" BARBED FITTINGS WITH STAINLESS STEEL CRIMP RINGS. SEE TREE IRRIGATION DETAIL.
			PRESSURE MAIN LINE PIPING - PVC SCH. 40 (SIZE AS NOTED) ALL MAINLINE FITTINGS TO BE SCH. 80.
			NON-PRESSURE LATERAL LINE PIPING - PVC SCH. 40 (SIZE AS NOTED)
			CONTROL WIRE SLEEVE UNDER PAVING - PVC SCH. 40 (1 - 4", 1 - 2")
			CONTROLLER - RAINBIRD ESP-4M WALL MOUNTED AT BUILDING DRIP CLOCK RUN TWO SPARE WIRES IN EACH DIRECTION, LOOP INTO EACH VALVE BOX AND TERMINATE IN LAST VALVE BOX EACH DIRECTION.
			CONTROLLER - RAINBIRD ESPLX-24 WALL MOUNTED TURF CLOCK RUN TWO SPARE WIRES TO FIRST VALVE TERMINATE IN VALVE BOX.
			CONTROLLER - RAINBIRD ESPLX-8 (WHITEHEAD BLDG. AREA) PEDESTAL MOUNTED WHITEHEAD CLOCK RUN TWO SPARE WIRES IN EACH DIRECTION, LOOP INTO EACH VALVE BOX AND TERMINATE IN LAST VALVE BOX EACH DIRECTION. METAL PEDESTAL RAINBIRD LXMPED, METAL CABINET RAINBIRD LXMM
			IRRIGATION POINT OF CONNECTION - POTABLE WATER FOR DRIP SYSTEM. TIE INTO EXISTING 1-1/2" STUB, CONTINUE TO BACKFLOW LOCATION
			BACK FLOW DEVICE - WILKINS 975XLSE 1-1/2" SEE DETAIL ENCLOSE WITH HOT BOX LB1 FIBERGLASS ENCLOSURE - SEE DETAIL
			IRRIGATION POINT OF CONNECTION - IRRIGATION WATER, INSTALL (2) 2" SADDLES TO EXISTING 4" IRRIGATION MAINLINE TO SERVICE TURF LANDSCAPE. REFER TO SHEET C201 FOR FURTHER INFORMATION. COORDINATE WITH RELOCATION OF EXISTING IRRIGATION LINE. INSTALL GATE VALVE IMMEDIATELY DOWN STREAM OF P.O.C.
			IRRIGATION POINT OF CONNECTION - IRRIGATION WATER, INSTALL 2" SADDLE TO EXISTING 4" IRRIGATION MAINLINE TO SERVICE LANDSCAPE. INSTALL GATE VALVE IMMEDIATELY DOWN STREAM OF P.O.C.
			DRIP A23 - INDICATES CONTROLLER LETTER DESIGNATION STATION NUMBER
			1" - INDICATES ELECTRIC CONTROL VALVE SIZE

SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	NOZZLE	RADIUS	FLOW	PSI	PATTERN	SPACING
	RAINBIRD	1800-SAM-PRS	POP-UP SPRAY HEAD	15 SERIES MPR	15 FT.	3.70 GPM	30	FULL	15 FT.
	RAINBIRD	1800-SAM-PRS	POP-UP SPRAY HEAD	15 SERIES MPR	15 FT.	2.78 GPM	30	THREE QTR	15 FT.
	RAINBIRD	1800-SAM-PRS	POP-UP SPRAY HEAD	15 SERIES MPR	15 FT.	1.85 GPM	30	HALF	15 FT.
	RAINBIRD	1800-SAM-PRS	POP-UP SPRAY HEAD	15 SERIES MPR	15 FT.	0.92 GPM	30	QUARTER	15 FT.
	RAINBIRD	7005-SS-08	ROTOR SPRAY HEAD	08 GREEN	49 FT.	6.60 GPM	50	ADJ	44 FT.
	EXISTING RAINBIRD ROTOR								

WHITEHEAD BLDG. DEMOLITION  
REFER TO SHEET C102 FOR BUILDING DEMOLITION.  
GRADE SITE SMOOTH, ADD POP-UP SPRINKLERS,  
REPAIR IRRIGATION AND SOD AREA.  
REFER TO SHEET C102 FOR AREA TAKE-OFF.

NO SPRAY TO HIT BUILDING OR WALKWAY. ADJUST EXISTING HEADS AS NEEDED

TIE INTO EXISTING LINE OR PLANTERS. ADJUST

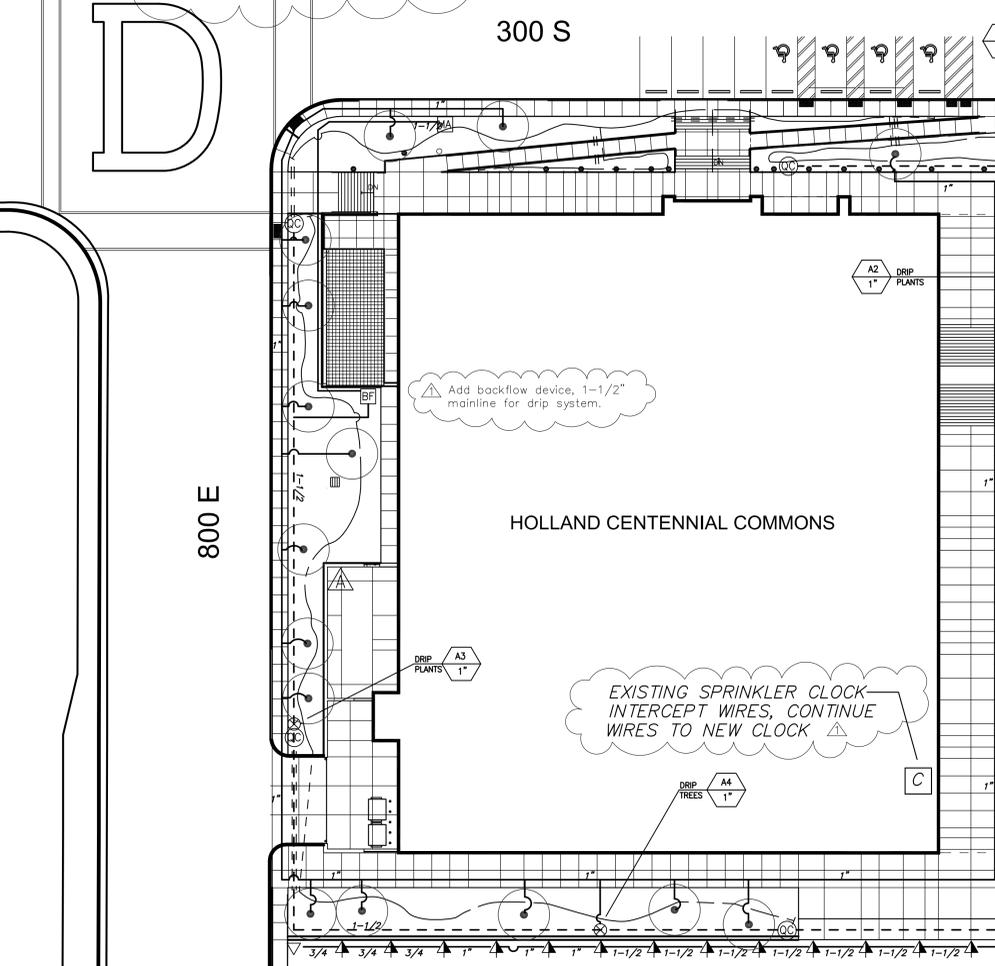
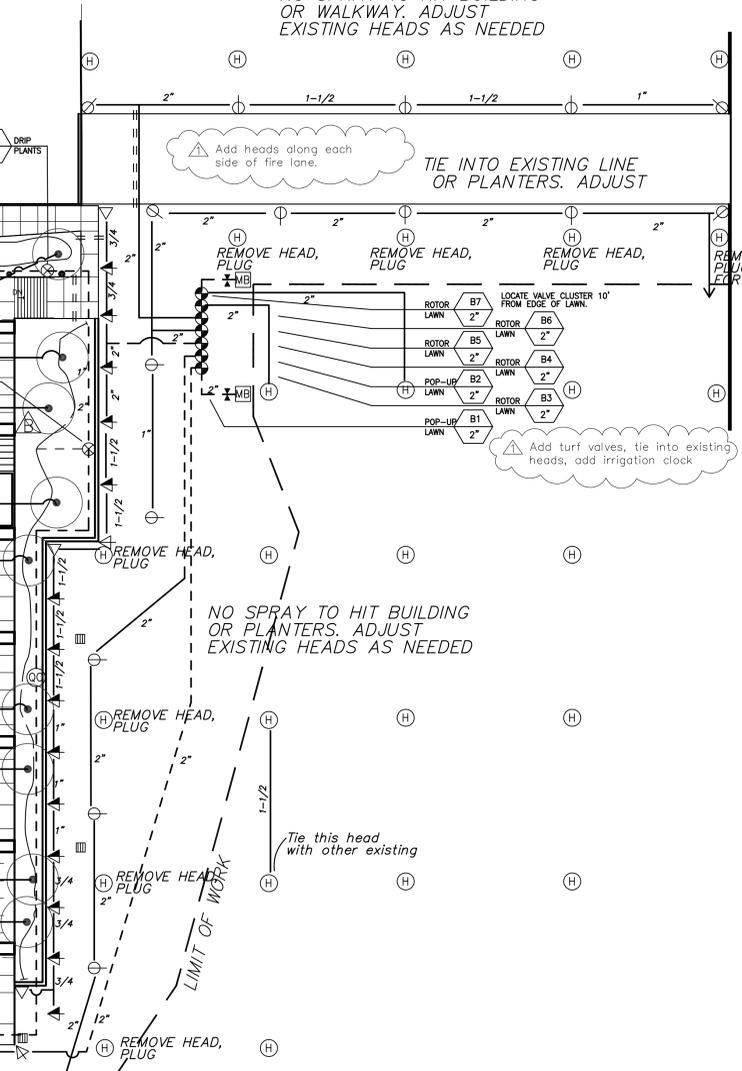
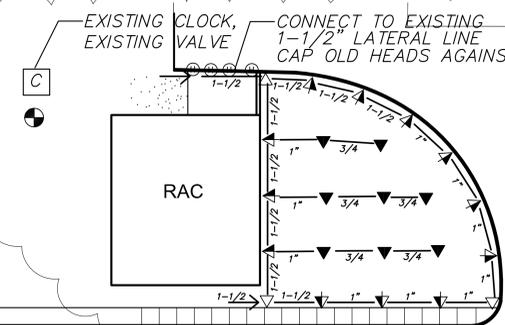
NO SPRAY TO HIT BUILDING OR PLANTERS. ADJUST EXISTING HEADS AS NEEDED

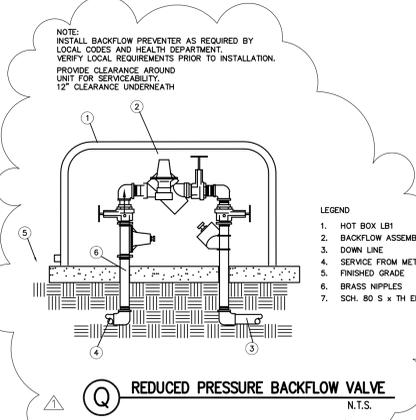
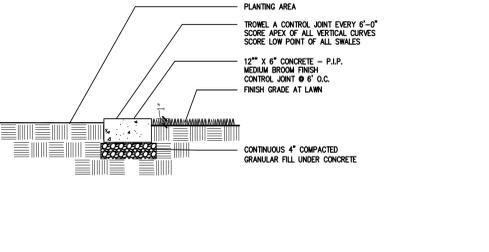
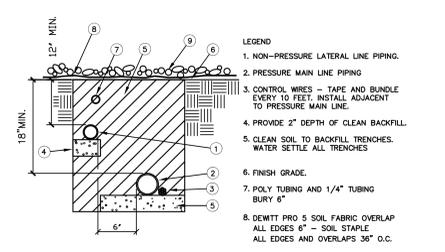
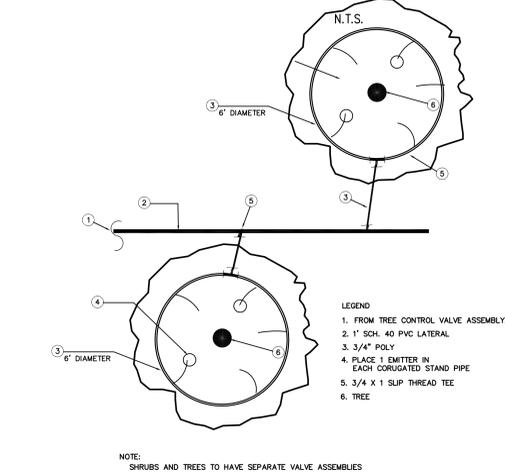
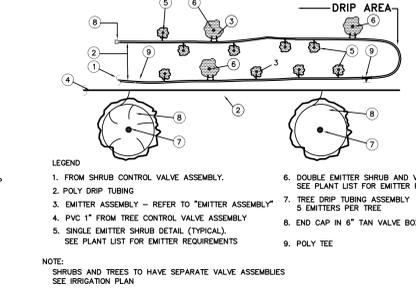
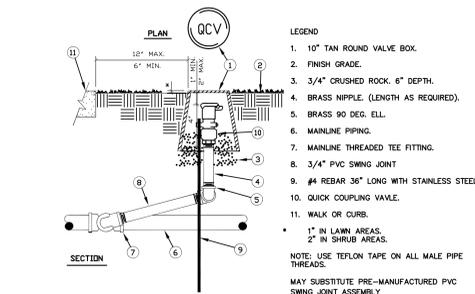
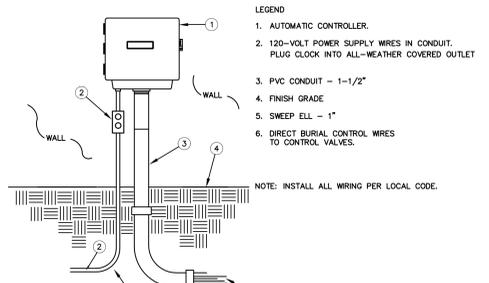
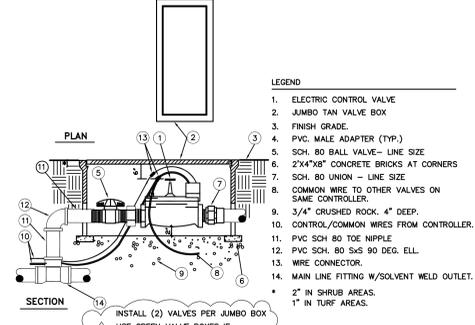
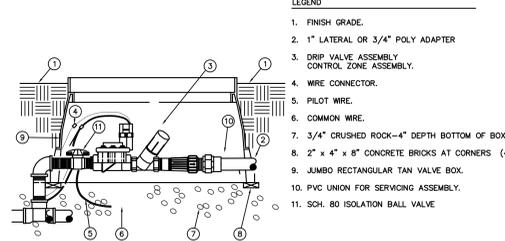
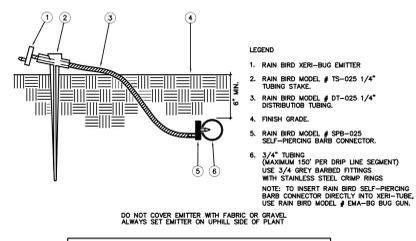
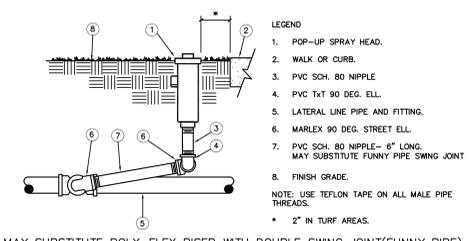
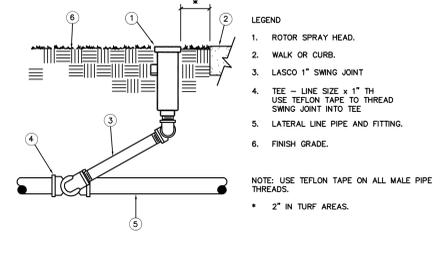
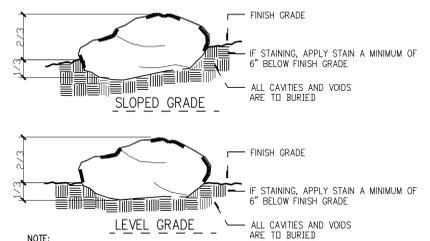
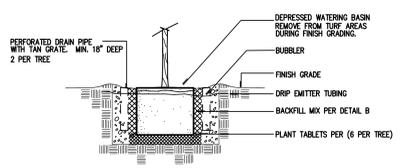
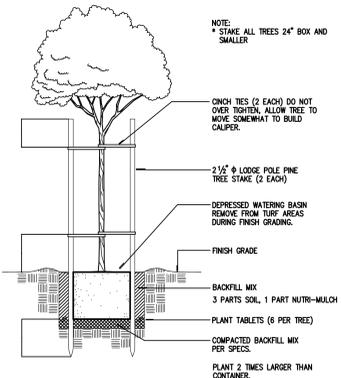
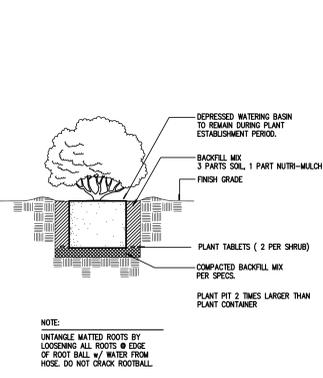
NO SPRAY TO HIT BUILDING OR PLANTERS. ADJUST EXISTING HEADS AS NEEDED

REPAIR IRRIGATION, REBUILD DIAMOND WALL AT 400 S. CORNER TRENCH TO 400 S. CORNER SEE SHEET C203

(12) EXISTING VALVES TRENCH NEW WIRES TO NEW TURF CLOCK B. WIRE STATIONS B8 THRU B20.

GRAPHIC SCALE  
1" = 20'





**BLUE STAKES**  
Call Before  
You Dig!

NOTICE !  
TWO WORKING DAYS BEFORE YOU DIG CALL: 1-800-662-4111

ANY UTILITIES ARE SHOWN ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.

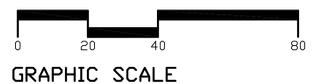
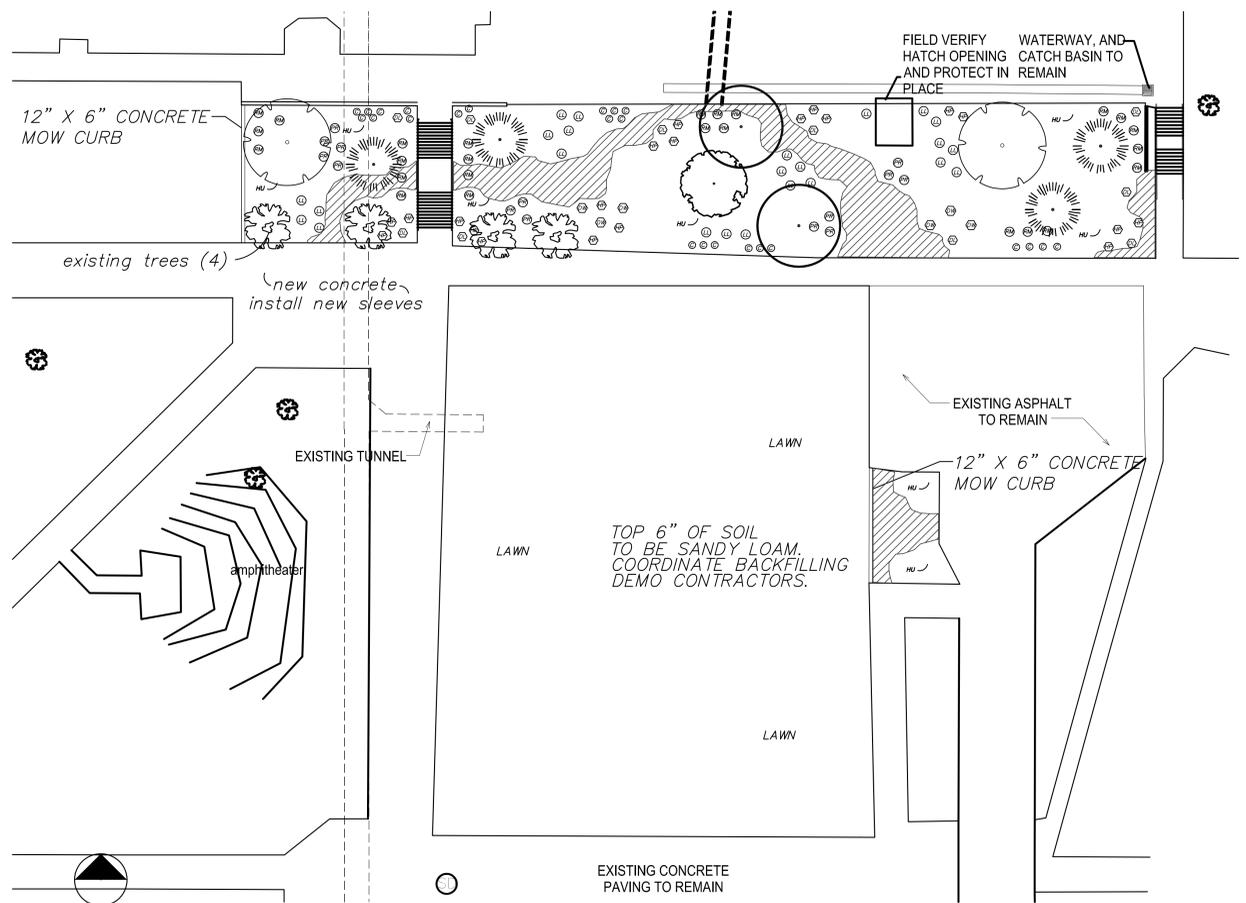
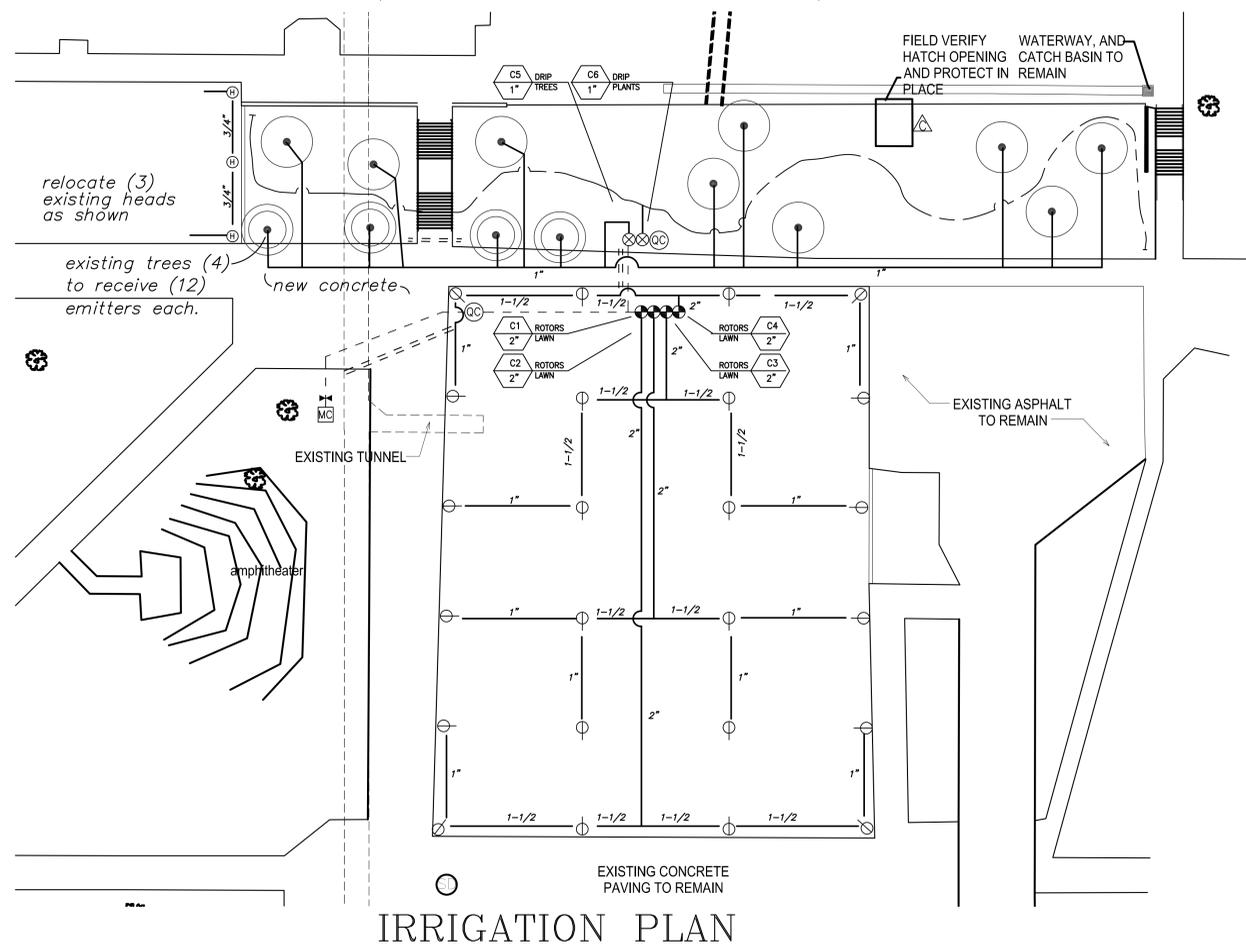
IRRIGATION LEGEND

- ⊗ RAINBIRD XCZ-PRB-100-COM SERIES ELECTRIC CONTROL VALVE (1") DRIP ASSEMBLY - SEE DETAIL 1 FOR ADDITIONAL INFORMATION.
- ⊗ RAINBIRD PESB-PRS-D SERIES ELECTRIC CONTROL VALVE WITH PRESSURE REGULATOR (SIZE AS NOTED AT VALVE) REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
- ⊗ NIBCO T-113 BRASS GATE VALVE WITH BRASS CROSS HANDLE (LINE SIZE) WITH 4" PVC STAND PIPE AND 10" RD GREEN VALVE BOX
- ⊗ RAINBIRD 3RC 3/4" BRASS QUICK COUPLING VALVE
- TORO BLUE STRIPE (PLANTS) 3/4" DRIP TUBING - USE 3/4" BARBED FITTINGS WITH STAINLESS STEEL CRIMP RINGS
- TORO WHITE STRIPE (TREES) 1" SCH. 40 PVC WITH 3/4" DRIP TUBING - USE 3/4" BARBED FITTINGS WITH STAINLESS STEEL CRIMP RINGS. SEE TREE IRRIGATION DETAIL.
- PRESSURE MAIN LINE PIPING - PVC SCH. 40 (SIZE AS NOTED) ALL MAINLINE FITTINGS TO BE SCH. 80.
- NON-PRESSURE LATERAL LINE PIPING - PVC SCH. 40 (SIZE AS NOTED)
- CONTROL WIRE SLEEVE UNDER PAVING - PVC SCH. 40 (1 - 4", 1 - 2")
- ⊗ CONTROLLER - RAINBIRD ESP-4M WALL MOUNTED AT BUILDING DRIP CLOCK RUN TWO SPARE WIRES IN EACH DIRECTION, LOOP INTO EACH VALVE BOX AND TERMINATE IN LAST VALVE BOX EACH DIRECTION.
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- ⊗ MA IRRIGATION POINT OF CONNECTION - POTABLE WATER FOR DRIP SYSTEM. TIE INTO EXISTING 1-1/2" STUB, CONTINUE TO BACKFLOW LOCATION
- ⊗ BF BACK FLOW DEVICE - WILKINS 975XLSL 1-1/2" SEE DETAIL. ENCLOSE WITH HOT BOX LB1 FIBERGLASS ENCLOSURE - SEE DETAIL
- ⊗ MB IRRIGATION POINT OF CONNECTION - IRRIGATION WATER. INSTALL (2) 2" SADDLES TO EXISTING 4" IRRIGATION MAINLINE TO SERVICE TURF LANDSCAPE. REFER TO SHEET C201 FOR FURTHER INFORMATION. COORDINATE WITH RELOCATION OF EXISTING IRRIGATION LINE. INSTALL GATES VALVE IMMEDIATELY DOWN STREAM OF P.O.C.
- ⊗ MC IRRIGATION POINT OF CONNECTION - IRRIGATION WATER. INSTALL 2" SADDLE TO EXISTING 4" IRRIGATION MAINLINE TO SERVICE LANDSCAPE. INSTALL GATE VALVE IMMEDIATELY DOWN STREAM OF P.O.C.
- ⊗ DRIP A23 INDICATES CONTROLLER LETTER DESIGNATION STATION NUMBER
- ⊗ 1" INDICATES ELECTRIC CONTROL VALVE SIZE

SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	NOZZLE	RADIUS	FLOW	PSI	PATTERN	SPACING
▼	RAINBIRD	1800-SAM-PRS	POP-UP SPRAY HEAD	15 SERIES MPR	15 FT.	3.70 GPM	30	FULL	15 FT.
▽	RAINBIRD	1800-SAM-PRS	POP-UP SPRAY HEAD	15 SERIES MPR	15 FT.	2.78 GPM	30	THREE QTR	15 FT.
▽	RAINBIRD	1800-SAM-PRS	POP-UP SPRAY HEAD	15 SERIES MPR	15 FT.	1.85 GPM	30	HALF	15 FT.
▽	RAINBIRD	1800-SAM-PRS	POP-UP SPRAY HEAD	15 SERIES MPR	15 FT.	0.92 GPM	30	QUARTER	15 FT.
⊕	RAINBIRD	7005-SS-08	ROTOR SPRAY HEAD	08 GREEN	49 FT.	6.60 GPM	50	ADJ	44 FT.
⊕	EXISTING RAINBIRD ROTOR								

PLANT LEGEND

TREES				ACCENTS			
SYMBOL	NAME	SIZE	EMITTERS	SYMBOL	NAME	SIZE	EMITTERS
CL	CHILOPSIS linearis 'Art's Seedless'	24" box	(5) - 2 GPH	⊗	DASYLIRON longisimum Grass Tree	15 gal	(1) - 2 GPH
AS	FRAXINUS velutina 'Fan Tex'	24" box	(5) - 2 GPH	⊗	HESPERALOE parviflora Red Yucca	5 gal	(1) - 2 GPH
PI	PISTACIA chinensis 'Red Push'	24" box	(5) - 2 GPH	⊗	DASYLIRON wheeleri Desert Spoon	15 gal	(1) - 2 GPH
PG	PROSOPIS glandulosa 'Maverick'	24" box	(5) - 2 GPH	⊗	MUHLENBERGIA capilaris 'Regal Mist'	5 gal	(1) - 2 GPH
QV	QUERCUS virginiana Live Oak - Low branching	36" box	(5) - 2 GPH	⊗	REGAL MIST Deer Grass	5 gal	(1) - 2 GPH
CC	CERCIS canadensis Eastern Redbud - low branching	24" box	(5) - 2 GPH	⊗	MISCANTHUS gracillimus 'Yaku Jima'	5 gal	(2) - 2 GPH
LA	LAGERSTROEMIA indica Grape Myrtle - Red, multi trunk	36" box	(5) - 2 GPH	⊗	TRICHOCEREUS imperialis Argentine Saguaro - minimum 3 bulbs	15 gal	(2) - 1 GPH
PI	PINUS halepensis Aleppo Pine	24" box	(5) - 2 GPH	⊗	ECHINOCACTUS grusonii Golden Barrel Cactus	5 gal	(1) - 1 GPH
SHRUBS				⊗	FEROCACTUS wislizenii Fishhook Barrel Cactus	5 gal	(1) - 1 GPH
⊗	NERIUM oleander Dwarf Red Hardy Dwarf Red Oleander	5 gal	(1) - 2 GPH	⊗	YUCCA rostrata Beaked Yucca - 3 ft. 2 head	20 gal	(2) - 1 GPH
⊗	LEUCOPHYLLUM langmaniae 'Rio Bravo'	5 gal	(1) - 2 GPH	BOULDERS - TAN SANDSTONE QUARRIED BOULDERS 3 TO 4' DIAMETER VARIED SHAPES MINIMUM 90 TONS, MINIMUM 125 BOULDERS			
⊗	PEROVSKIA atriplicifolia Russian Sage	5 gal	(1) - 2 GPH	FLAGSTONES - BUCKSKIN COLOR MINIMUM 4' X 3' SPACE MINIMUM 4" FROM CONCRETE EDGE AND ONE ANOTHER. HUALAPI RED CHAT IN AND AROUND FLAGSTONES OVER FABRIC.			
⊗	RHAPHIOLEPIS indica 'Ballerina'	5 gal	(2) - 2 GPH	HU DECORATIVE GRAVEL - 3/4" HUALAPI GOLD OR EQUAL, 3" DEPTH - AVAILABLE FROM ROWLAND STONE (435) 673-2349			
⊗	COTINUS coggyria 'Purpleus'	5 gal	(2) - 2 GPH	ACCENT GRAVEL - 4" APACHE GOLD OR EQUAL, 4" DEPTH - AVAILABLE FROM ROWLAND STONE (435) 673-2349			
⊗	ROSMARINUS officinalis 'Prostratus'	5 gal	(1) - 2 GPH	ALL PLANTER AREAS TO BE COVERED WITH DEWITT PROS LANDSCAPE FABRIC, SEE DETAIL O.			
⊗	ROSA x noare Red Carpet Rose	2 gal	(2) - 2 GPH	LAWN SOD - Tri-blend Fescue Sod, feather into existing lawn			
⊗	CHRYSANTHINA mexicana Damianita	5 gal	(1) - 2 GPH				
⊗	MYRTUS communis 'Compacta'	5 gal	(2) - 2 GPH				
⊗	VAQUELINIA californica California Rosewood	5 gal	(1) - 2 GPH				



HOLLAND CENTENNIAL COMMONS  
DIXIE STATE COLLEGE OF UTAH  
DIXIE COLLEGE, ST. GEORGE, UT  
CONFORMED CONSTRUCTION DOCUMENTS BID SET

No. Description Date  
Add sheet to 12/23/10 set. Add landscape to site

Job # 09625  
CAD File  
Drawn JJC Checked JJC  
Date 12/03/2010  
Owner #  
Ins. #

WHITEHEAD SITE  
IRRIGATION PLAN  
PLANTING PLAN

# ADDENDUM

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Project Name: DSC HCC - Chiller Plant and Tunnel Extension

Addendum No.: 7

DFCM Project # 06297640

Date: 12-29-10

From: WHW Engineering Inc  
8619 South Sandy Parkway  
Sandy, Utah 84070  
Phone (80) 466-4021 Fax (801) 466-8536

To: All bidders

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This Addendum forms and becomes a part of the Contract Documents and modifies the original Bidding Documents dated December 2010 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 18 pages.

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**I - CHANGES TO PRIOR ADDENDA:** None

**V - CHANGES/CLARIFICATIONS TO SPECIFICATIONS:**

**Item V-1.** Insert the following specification sections: 221429a - sump pumps, 230100a - general requirements for mechanical, 230523a - mechanical valves, 230529a hangers & supports for mechanical. See attached.

**VI - CHANGES/CLARIFICATIONS TO DRAWINGS:**

**Item VI-1.** Sheet MPE102: Extend the service catwalk from the existing cooling tower to the 2 new cells. Catwalk extension materials and appearance shall match the existing.

End of Central Plant Mechanical Addendum

## **SECTION 221429A - SUMP PUMPS**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. Section Includes:
  - 1. Submersible sump pumps.

#### **1.3 SUBMITTALS**

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
- B. Wiring Diagrams: For power, signal, and control wiring.
- C. Operation and Maintenance Data: For pumps and controls, to include in operation and maintenance manuals.

#### **1.4 QUALITY ASSURANCE**

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. UL Compliance: Comply with UL 778 for motor-operated water pumps.

#### **1.5 DELIVERY, STORAGE, AND HANDLING**

- A. Retain shipping flange protective covers and protective coatings during storage.
- B. Protect bearings and couplings against damage.
- C. Comply with pump manufacturer's written rigging instructions for handling.

## **PART 2 - PRODUCTS**

### **2.1 SUBMERSIBLE SUMP PUMPS**

- A. Submersible, Fixed-Position, Single-Seal Sump Pumps:
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Weil Pump Company, Inc. Model 1413-2" or equal y.
    - b. Little Giant Pump Co.
    - c. Weinman Division; Crane Pumps & Systems.
    - d. Federal
    - e. Prior approved equal.
  2. Description: Factory-assembled and -tested sump-pump unit.
  3. Pump Type: Submersible, end-suction, single-stage, close-coupled, overhung-impeller, centrifugal sump pump.
  4. Pump Casing: Cast iron, with 304 stainless steel strainer inlet, legs that elevate pump to permit flow into impeller, and vertical discharge for piping connection.
  5. Impeller: Statically and dynamically balanced, ASTM A 532/A 532M, abrasion-resistant cast iron, design for clear wastewater handling, and keyed and secured to shaft.
  6. Pump and Motor Shaft: Stainless steel, with factory-sealed, grease-lubricated ball bearings.
  7. Seal: Mechanical.
  8. Motor: Hermetically sealed, capacitor-start type; with built-in overload protection; lifting eye or lug; and three-conductor, waterproof power cable of length required and with grounding plug and cable-sealing assembly for connection at pump.
    - a. Motor Housing Fluid: Air.
  9. Controls:
    - a. Enclosure: NEMA 250.
    - b. Switch Type: Pedestal-mounted float switch with float rods and rod buttons.
    - c. Automatic Alternator: Start pumps on successive cycles and start multiple pumps if one cannot handle load.
    - d. High-Water Alarm: Cover-mounted, compression-probe alarm, with electric bell; 120-V ac, with transformer and contacts for remote alarm bell.

### **2.2 SUMP PUMP CAPACITIES AND CHARACTERISTICS**

- A. Unit Capacity: See schedule on drawings.
- B. Number of Pumps: Two.
- C. Each Pump:

1. Capacity: See schedule.
2. Total Dynamic Head: See schedule.
3. Speed: See schedule.
4. Discharge Size: 2".
5. Electrical Characteristics:
  - a. Motor Horsepower: 1/2.
  - b. Volts: 208.
  - c. Phases: Single.
  - d. Hertz: 60.

## **2.3 MOTORS**

- A. Comply with NEMA designation, temperature rating, service factor, enclosure type, and efficiency requirements for motors.
  1. Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.
  2. Controllers, Electrical Devices, and Wiring: Comply with requirements for electrical devices and connections specified in Division 16 Sections.
- B. Motors for submersible pumps shall be hermetically sealed.

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- A. Pump Installation Standards: Comply with HI 1.4 for installation of sump pumps.

### **3.2 CONNECTIONS**

- A. Comply with requirements for piping shown on drawings.
- B. Install piping adjacent to equipment to allow service and maintenance.

### **3.3 FIELD QUALITY CONTROL**

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- B. Perform tests and inspections.
  1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

C. Tests and Inspections:

1. Perform each visual and mechanical inspection.
2. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
3. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

D. Pumps and controls will be considered defective if they do not pass tests and inspections.

E. Prepare test and inspection reports.

### **3.4 ADJUSTING**

A. Adjust pumps to function smoothly, and lubricate as recommended by manufacturer.

B. Adjust control set points.

END OF SECTION 221429A

## **SECTION 230100A - GENERAL REQUIREMENTS FOR MECHANICAL**

### **PART 1 - GENERAL**

#### **1.1 GENERAL**

- A. General Conditions and Division 01 apply to this Division.

#### **1.2 SCOPE**

- A. Includes -
  1. Furnish all labor, materials, and equipment necessary for the completion of the mechanical tunnel supports, piping, insulation, anchors etc.
  2. Furnish and install all motors specified in this Division and be responsible for the proper operation of electrical powered equipment furnished by this Division.
  3. Furnish exact location of electrical connections and information on motor controls to Electrical.
  4. Drawing the existing piping and refilling the system using the same chemicals as used by the college when all piping changes are complete.
  5. The satisfactory performance of the completed systems is a requirement of this specification.
- B. Related Work Specified Elsewhere -
  1. Conduit, line voltage wiring, outlets, and disconnect switches specified in Electrical.
  2. Magnetic starters and thermal protective devices (heaters) not a factory mounted integral part of packaged equipment are specified in Electrical.

#### **1.3 SITE INSPECTION**

- A. The Contractor shall examine the site and understand the conditions which may affect the performance of work of this Division before submitting proposals for this work.
- B. No subsequent allowance for time or money will be considered for any consequence related to failure to examine existing site conditions.

#### **1.4 DRAWINGS**

- A. Mechanical site drawings show general arrangement of piping support systems, expansion joints, valves, etc; however, locations are to be regarded as shown

diagrammatically only. Follow as closely as actual construction and work of other trades will permit.

- B. Because of the small scale of mechanical drawings, it is not possible to indicate all offsets, fittings, and accessories which may be required. Investigate existing structural and finished conditions affecting this work and arrange work accordingly, providing such fittings, valves, and accessories required to meet conditions.

## **1.5 CODE REQUIREMENTS, FEES, AND PERMITS**

- A. The work shall be installed in accordance with the following applicable codes, ordinances and standards unless otherwise specified. The codes and standards shall include but not be limited to and be of the latest and current editions.

1. American National Standards Institute (ANSI)
2. American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)
3. American Society of Mechanical Engineers (ASME)
4. American Society of Testing Materials (ASTM)
5. American Standards Association (ASA)
6. American Welding Society (AWS)
7. National Electrical Code (NEC)
8. National Fire Protection Association (NFPA)
9. Underwriters Laboratories (UL)
10. International Building Code (IBC) 2006 Ed
11. International Mechanical Code (IMC) 2006 Ed
12. Utah State Safety Orders (OSHA/UOSH)
13. Utah Fire Rating Bureau
14. Utah Air Conservation Regulations/Waste Disposal regulations.

- B. Should drawings conflict with any code, the code shall govern. If drawings and specifications establish a quality exceeding the code, the drawings and specifications shall govern. If conflicts do exist among the drawings, specifications and codes, the same shall be brought to the attention of the Architect in writing prior to bidding, otherwise Contractor shall comply with applicable codes.

- C. The latest edition of all codes shall be used.

- D. **1.6 OPERATION AND MAINTENANCE MANUAL FOR MECHANICAL SYSTEMS**

- A. Upon completion of work and before final payment, Contractor shall furnish and deliver to the Owner, through the Architect, installation, operation and maintenance manuals with instructions for all new materials and equipment used in the building. This material shall be turned over to the Architect and shall be included in the final operation and maintenance manual provided for the main building.

B.

## **1.8 RECORD DRAWINGS**

- A. Contractor shall keep an up-to-date set of tunnel drawings in his custody showing all changes in red, clearly defined and neatly drafted by him. At the end of construction, he shall turn these drawings over to the Architect. Record drawings must be completed and submitted prior to final inspection.

## **PART 2 - PRODUCTS**

(Not Used)

## **PART 3 - EXECUTION**

(Not Used)

END OF SECTION 230100A

## **SECTION 230523A - MECHANICAL VALVES**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. This Section includes the following general-duty valves:
  1. Ferrous-alloy ball valves.
  2. Bronze check valves.
  3. Cast-iron gate valves.

#### **1.3 DEFINITIONS**

- A. The following are standard abbreviations for valves:
  1. CWP: Cold working pressure.
  2. SWP: Steam working pressure.

#### **1.4 SUBMITTALS**

- A. Product Data: For each type of valve indicated. Include body, seating, and trim materials; valve design; pressure and temperature classifications; end connections; arrangement; dimensions; and required clearances. Include list indicating valve and its application. Include rated capacities; shipping, installed, and operating weights; furnished specialties; and accessories.

#### **1.5 QUALITY ASSURANCE**

- A. ASME Compliance: ASME B31.9 for building services piping valves.
- B. ASME Compliance for Ferrous Valves: ASME B16.10 and ASME B16.34 for dimension and design criteria.

#### **1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Prepare valves for shipping as follows:
  1. Protect internal parts against rust and corrosion.
  2. Protect threads and flange faces.
  3. Set gate valves closed to prevent rattling.

4. Set ball valves open to minimize exposure of functional surfaces.
  5. Block check valves in either closed or open position.
- B. Use the following precautions during storage:
1. Maintain valve end protection.
  2. Store valves indoors and maintain at higher than ambient dew-point temperature. If outdoor storage is necessary, store valves off the ground in watertight enclosures.
- C. Use sling to handle large valves; rig sling to avoid damage to exposed parts. Do not use handwheels or stems as lifting or rigging points.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURERS**

- A. In other Part 2 articles where subparagraph titles below introduce lists, the following requirements apply for product selection:
1. Manufacturers: Subject to compliance with requirements, provide products by the manufacturers specified.

### **2.2 VALVES, GENERAL**

- A. Refer to Part 3 "Valve Applications" Article for applications of valves.
- B. Bronze Valves: NPS 2 and smaller with threaded ends, unless otherwise indicated.
- C. Ferrous Valves: NPS 2-1/2 and larger with flanged ends, unless otherwise indicated.
- D. Valve Pressure and Temperature Ratings: Not less than indicated and as required for system pressures and temperatures.
- E. Valve Sizes: Same as upstream pipe, unless otherwise indicated.
- F. Valve Actuators:
1. Handwheel: For valves other than quarter-turn types.
  2. Lever Handle: For quarter-turn valves NPS 6 and smaller, except plug valves.
- G. Extended Valve Stems: On insulated valves.
- H. Valve Flanges: ASME B16.1 for cast-iron valves, ASME B16.5 for steel valves.
- I. Valve Bypass and Drain Connections: MSS SP-45.

## **2.3 COPPER-ALLOY BALL VALVES**

### **A. Manufacturers:**

1. Two-Piece, Copper-Alloy Ball Valves:
  - a. Conbraco Industries, Inc.; Apollo Div.
  - b. Crane Co.; Crane Valve Group; Crane Valves.
  - c. Crane Co.; Crane Valve Group; Jenkins Valves.
  - d. Crane Co.; Crane Valve Group; Stockham Div.
  - e. Hammond Valve.
  - f. Kitz Corporation of America.
  - g. Milwaukee Valve Company.
  - h. NIBCO INC.

## **2.4 FERROUS-ALLOY BALL VALVES**

### **A. Manufacturers:**

1. Conbraco Industries, Inc.; Apollo Div.
  2. Crane Co.; Crane Valve Group; Stockham Div.
  3. Hammond Valve.
  4. Kitz Corporation of America.
  5. Milwaukee Valve Company.
  6. NIBCO INC.
  7. Prior approved equal.
- B. Ferrous-Alloy Ball Valves: Class 150, full port.
- C. Ferrous-Alloy Ball Valves: Class 300, full port.

## **2.5 BRONZE CHECK VALVES**

### **A. Manufacturers:**

1. Type 1, Bronze, Vertical Lift Check Valves with Metal Disc:
    - a. Cincinnati Valve Co.
    - b. Crane Co.; Crane Valve Group; Crane Valves.
    - c. Crane Co.; Crane Valve Group; Jenkins Valves.
    - d. Prior approved equal.
- B. Bronze Check Valves, General: MSS SP-80.

## **2.6 CAST-IRON GATE VALVES**

### **A. Manufacturers:**

1. Type I, Cast-Iron, Nonrising-Stem Gate Valves:

- a. Cincinnati Valve Co.
- b. Crane Co.; Crane Valve Group; Crane Valves.
- c. Crane Co.; Crane Valve Group; Jenkins Valves.
- d. Crane Co.; Crane Valve Group; Stockham Div.
- e. Hammond Valve.
- f. Kitz Corporation of America.
- g. Milwaukee Valve Company.
- h. NIBCO INC.
- i. Powell, Wm. Co.
- j. Walworth Co.
- k. Prior approved equal.

2. Type I, Cast-Iron, Rising-Stem Gate Valves:

- a. Cincinnati Valve Co.
- b. Crane Co.; Crane Valve Group; Crane Valves.
- c. Crane Co.; Crane Valve Group; Jenkins Valves.
- d. Crane Co.; Crane Valve Group; Stockham Div.
- e. Hammond Valve.
- f. Kitz Corporation of America.
- g. Milwaukee Valve Company.
- h. NIBCO INC.
- i. Powell, Wm. Co.
- j. Walworth Co.
- k. Prior approved equal.

B. Cast-Iron Gate Valves, General: MSS SP-70, Type I.

C. Class 125, OS&Y, All-Iron, Cast-Iron Gate Valves: Cast-iron body with cast-iron trim, rising stem, and solid-wedge disc.

D. Class 300, OS&Y, All-Iron, Cast-Iron Gate Valves: Cast-iron body with cast-iron trim, rising stem, and solid-wedge disc.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Examine piping system for compliance with requirements for installation tolerances and other conditions affecting performance.
  - 1. Proceed with installation only after unsatisfactory conditions have been corrected.
- B. Examine valve interior for cleanliness, freedom from foreign matter, and corrosion. Remove special packing materials, such as blocks, used to prevent disc movement during shipping and handling.

- C. Operate valves in positions from fully open to fully closed. Examine guides and seats made accessible by such operations.
- D. Examine threads on valve and mating pipe for form and cleanliness.
- E. Examine mating flange faces for conditions that might cause leakage. Check bolting for proper size, length, and material. Verify that gasket is of proper size, that its material composition is suitable for service, and that it is free from defects and damage.
- F. Do not attempt to repair defective valves; replace with new valves.

### **3.2 VALVE INSTALLATION**

- A. Piping installation requirements are specified in other Division 23 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Install valves with unions for drawings and flanges for piping, to allow for service and maintenance.
- C. Locate valves for easy access and provide separate support where necessary.
- D. Install valves in horizontal piping with stem at or above center of pipe.
- E. Install valves in position to allow full stem movement.
- F. Install check valves for proper direction of flow and as follows:
  - 1. Lift Check Valves: With stem upright and plumb.

### **3.3 ADJUSTING**

- A. Adjust or replace valve packing after piping systems have been tested and put into service but before final adjusting and balancing. Replace valves if persistent leaking occurs.

END OF SECTION 230523A

## **SECTION 230529A - HANGERS AND SUPPORTS FOR MECHANICAL PIPING AND EQUIPMENT**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. This Section includes the following supports for the new high temperature hot water and the new chilled water system piping and equipment:
  - 1. Steel piping supports.
  - 2. Metal framing systems.
  - 3. Thermal-hanger saddle inserts.
  - 4. Equipment supports.

#### **1.3 DEFINITIONS**

- A. MSS: Manufacturers Standardization Society for The Valve and Fittings Industry Inc.
- B. Terminology: As defined in MSS SP-90, "Guidelines on Terminology for Pipe Hangers and Supports."

#### **1.4 PERFORMANCE REQUIREMENTS**

- A. Design supports for multiple pipes, including pipe stands, capable of supporting combined weight of supported systems, system contents, and test water.
- B. Design equipment supports capable of supporting combined operating weight of supported equipment and connected systems and components.

#### **1.5 SUBMITTALS**

- A. Product Data: For the following:
  - 1. Steel pipe supports.
  - 2. Saddle.
- B. Welding certificates.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURERS**

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

### **2.2 STEEL PIPE SUPPORTS**

- A. Description: Factory-fabricated components. Refer to Part 3 "Support Applications" Article for where to use specific support types.
- B. Manufacturers:
  - 1. B-Line Systems, Inc.; a division of Cooper Industries.
  - 2. Unistrut Corp. Tyco International, LTD.
  - 3. Prior approved equal.
- C. Galvanized, Metallic Coatings: Pregalvanized or hot dipped.

### **2.3 METAL FRAMING SYSTEMS**

- A. Description: MFMA-3, field-fabricated pipe-support assembly made of B-line B22A steel channels and other components.
- B. Manufacturers:
  - 1. B-Line Systems, Inc.; a division of Cooper Industries.
  - 2. Unistrut Corp.; Tyco International, Ltd.
  - 3. Prior approved equal.
- C. Coatings: Manufacturer's standard finish.

### **2.4 SADDLE INSERTS**

- A. Description: Pipe insulation protection for piping with insulation on rollers. Saddles are made from carbon steel.
- B. Manufacturers:
  - 1. B-Line models B3160 for 1" insulation and B3164 for 3" insulation or approved equal by.
  - 2. Unistruct Corp. Tyco International, LTD.
  - 3. Prior approved equal.

- C. Comply with WW-H-171 E, Type 40A and 40B, MSS SP-69 and SP-58 type 39A and 39B.
- D. Length: 12 inches long.

## **2.5 EXPANSION JOINT SUPPORTS**

- A. Description: Welded, shop- or field-fabricated equipment support made from structural-steel shapes.

## **2.6 MISCELLANEOUS MATERIALS**

- A. Structural Steel: ASTM A 36/A 36M, steel plates, shapes, and bars; black and galvanized.

## **PART 3 - EXECUTION**

### **3.1 SUPPORT APPLICATIONS**

- A. Specific support requirements are specified in Sections specifying piping systems and equipment.
- B. Comply with MSS SP-69 for pipe supporting selections and applications that are not specified in piping system Sections.
- C. Use supports with galvanized, metallic coatings for piping and equipment that will not have field-applied finish.
- D. Horizontal-Piping Supports: Unless otherwise indicated and except as specified in piping system Sections, install the following types:
  - 1. Yoke-Type Pipe Clamps (MSS Type 2): For suspension of 120 to 450 deg F pipes, NPS 4 to NPS 16, requiring up to 4 inches of insulation.
  - 2. Carbon- or Alloy-Steel, Double-Bolt Pipe Clamps (MSS Type 3): For suspension of pipes, NPS 3/4 to NPS 24, requiring clamp flexibility and up to 4 inches of insulation.
  - 3. Steel Pipe Clamps (MSS Type 4): For suspension of cold and hot pipes, NPS 1/2 to NPS 24, if little or no insulation is required.
  - 4. Pipe Saddle Supports: B-Line Model 3160 or 3164 for support of pipes, NPS 4 to NPS 8 or equal by Unistrut.
  - 5. Complete Pipe Rollers B-Line model B31126-4-6, 8-10, for support of pipes, NPS 4 to NPS 8 or equal by Unistrut, if longitudinal movement caused by expansion and contraction might occur but vertical adjustment is not necessary.
- E. Building Attachments: Unless otherwise indicated and except as specified in piping system Sections, install the following types: See details on mechanical and structural drawings.

- F. Saddles: Unless otherwise indicated and except as specified in piping system Sections, install the following types:
  - 1. Steel Pipe-Covering Protection Saddles: B-Line model 3160 or 3164 or equal by Unistrut. To fill interior voids with insulation that matches adjoining insulation.
- G. Supports: Unless otherwise indicated and except as specified in piping system Sections, install the following types:
  - 1. Restraint-Control Devices: See details on drawings for Anchors and Guides. Where indicated to control piping movement. For guides use B-line model B3281-8 for 1" insulation and B3285 - 4 for 3" insulation or equal by Metraflex or Unistrut.
- H. Comply with B-Line model B22A or equal by Unistrut for metal framing system. See details on drawings.
- I. Use mechanical-expansion anchors instead of building attachments where required to bolt guide steel plates to concrete walls.

### **3.2 HANGER AND SUPPORT INSTALLATION**

- A. Metal Framing System Installation: Arrange for grouping of parallel runs of piping and support together on field-assembled metal framing systems. See details on drawings.
- B. Fastener System Installation:
  - 1. Install mechanical-expansion anchors in concrete after concrete is placed and completely cured. Install fasteners according to manufacturer's written instructions.
- C. Install supports complete with necessary, bolts, nuts, washers, and other accessories.
- D. Install supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints.
- E. Load Distribution: Install supports so piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
  - 1. Install B-Line model 3160 or 3164 protection saddles.

### **3.3 EQUIPMENT SUPPORTS**

- A. Fabricate structural-steel plates as detailed on drawings for supporting piping guides and anchors.

### **3.4 METAL FABRICATIONS**

- A. Cut, drill, and fit miscellaneous metal fabrications for equipment supports.
- B. Field Welding: Comply with AWS D1.1 procedures for shielded metal arc welding, appearance and quality of welds, and methods used in correcting welding work, and with the following:
  - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
  - 2. Obtain fusion without undercut or overlap.
  - 3. Remove welding flux immediately.
  - 4. Finish welds at exposed connections so no roughness shows after finishing and contours of welded surfaces match adjacent contours.

### **3.5 PAINTING**

- A. Touch Up: Clean field welds and abraded areas of shop paint. Paint exposed areas immediately after erecting. Use same materials as used for shop painting. Comply with SSPC-PA 1 requirements for touching up field-painted surfaces.
  - 1. Apply paint by brush or spray to provide minimum dry film thickness of 2.0 mils.
- B. Galvanized Surfaces: Clean welds, bolted connections, and abraded areas and apply galvanizing-repair paint to comply with ASTM A 780.

END OF SECTION 230529A

**MECHANICAL ADDENDUM NO. 2**

**Dixie State College Holland Centennial Commons**

**CEA PROJECT NO. 2010-004.00**

**December 30, 2010**

All contractors submitting proposals for this project shall be governed by the following addendum, changes, and explanations to the bidding documents. Bids shall be submitted in accordance with the following:

<b>Item No.</b>	<b>Add, Delete or Clarify</b>	<b>Specification Section or Drawing No.</b>	<b>Reference / Description:</b>
2.1	Clarify	230529 3.17	Clarify requirements for filtration if air handling systems are used during construction See attached specification.
2.2	Clarify	230900 3.2	Clarify BMS monitoring of electrical equipment. See attached specification.
2.3	Clarify	224440 3.3 B	Provide a thermostatic mixing valve with each lavatory faucet.
2.4	Add	MH101	Add CO2 sensors to room 162. See ADD 2.01.
2.5	Clarify	MH402	Clarify pipe size connection to cooling towers. See ADD 2.02.
2.6	Clarify	MH202	Clarify heating water pipe size. See ADD 2.03.
2.7	Clarify	MH204	Clarify control of zones where more than one CO2 sensor may be present. See ADD 2.04.
2.8	Clarify	MH101	DXFC unit serving Data 104 is now DXFC-2 DXFC unit serving Data 114 is now DXFC-1
2.9	Clarify	MH102M	Exterior Diffusers (6) served by VAV box 2M-7 are Plan Code 1 with 340 CFM Typical.
2.10	Clarify	MH103	Extend 12/12 Low pressure ductwork from Storage room 351 to server room 352, provide Diffuser plan code 26 @ 100 cfm in Server room 352, move thermostat from Room 351 to 352, Provide Return Grille Plane code 10 in room 352, Provide Transfer duct size "A" from 352 to corridor. Vav box 3-12 Max cooling Cfm is now 1760 cfm, diffusers are Plan code 54 @ 220 cfm, Typ. of 8. Diffusers served by VAV box 3-20 are to be plan code 54 @ 200 cfm, Typ. of 6 Exterior diffusers served by VAV box 3-32 are to be plan code 1 @ 340 cfm, Typ. of 7.

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<b>Item No.</b>	<b>Add, Delete or Clarify</b>	<b>Specification Section or Drawing No.</b>	<b>Reference / Description:</b>
2.11	Clarify	MH104	Provide (2) diffuser plan code 31 @ 70 cfm each in Corridor 465A. Provide diffuser plan code 26 @ 110 cfm in Room adjacent to West wall of Office 444. VAV box 4-21 cfm to be 1500 cfm, provide diffuser plan code 26 @ 40 cfm in Children's literature library 460.
2.12	Clarify	MH105	Diffuser in Corridor 580 served by Vav box 5-32 is plan code 31 @ 150 cfm, Diffuser in corridor 580 served by vav box 5-33 is Plan code 31 @ 80 cfm, Diffuser in corridor 580 served by vav box 5-34 is Plan code 31 @ 80 cfm. Balance diffuser in room 562 to 100 cfm, provide diffuser plan code 31 @ 25 cfm in Nursing 569A. Missing diffuser in Main reception 551 is plan code 27 @ 230 cfm. Provide diffuser in Corridor 551A plan code 31 @ 100 cfm served by vav box 5-17.

#### **PRODUCT SUBSTITUTIONS / PRIOR APPROVALS**

<b>Item No.</b>	<b>Specification Section</b>	<b>Product Type</b>	<b>Alternate Manufacturers</b>
2.13	224440 2.1	Faucets, Traps, Supplies	Zurn, T & S Brass,
2.14	224440 2.1	Toilet Seats	Pro Flow
2.15	233400	Fans	S & P, Broan
2.16	236400 2.6	Special Collections Air Conditioning System	United Cool Aire

The above named alternate equipment manufacturers stand approved in name only. Approval here in no way relieves the supplier from complying with all other engineering, weight spatial, and quality requirements of equipment indicated in the contract documents. Contractors using products from the above named alternate manufacturers shall refer to Specification Section 230500 for detailed contractor responsibilities related to the use of alternate brands not used as the Basis of Design.

END OF ADDENDUM NO. 2

### **3.16 DRAIN LINES**

- A. Provide condensate drain lines from each cooling coil and evaporative media sump drain pan to drain or to termination indicated. Drain lines to be Type L hard copper.

### **3.17 HEATING SYSTEM USED FOR TEMPORARY HEAT DURING CONSTRUCTION**

- A. Permanent heating system shall not be used until building is totally and permanently enclosed (no temporary barriers for weather protection), and source of heat supply is permanently installed.
- B. Once the heating system has been placed into operation, it shall not be shut down except for moderate weather, and all heated areas shall be maintained at a minimum temperature of 50 deg. F 24 hours a day.
- C. When any air-handling equipment is used for temporary heat, the filters shall be installed and maintained. Before building acceptance by Owner, these units shall be thoroughly cleaned and new filters shall be installed. Filters (MERV 8 minimum) shall also be provided on all return air grilles and inlets to return air shafts. This is over and above the extra set of filters to be provided the Owner as called for in the specifications. Coils shall be cleaned if necessary, as determined by the Engineer.
- D. Any and all systems being used for temporary heat shall become the Contractor's responsibility to maintain, and be put into first class working order before acceptance by the Owner.
- E. Any manufacturer's guarantees that start with the use of equipment for temporary heat shall be extended by the contracting firm holding the prime contract for construction, so that the Owner will have his one-year guarantee from date of acceptance.

### **3.18 EXISTING PIPES AND MECHANICAL EQUIPMENT TO BE REMOVED**

- A. Where existing mechanical equipment, fixtures and/or piping is to be removed and/or relocated, all piping shall be disconnected and capped. All existing piping and hangers not to remain in use shall be removed completely to an existing main that is to remain in use, and capped at the main. General Contractor shall do all cutting, patching, and restoring that may be required for the removal of this piping and equipment. Where it is not possible to remove branch piping not remaining in use, due to its being concealed in the structure, the Division 23 Contractor shall cap the piping concealed at both ends in these areas as approved by the Architect.
- B. All mechanical equipment, fixtures, and piping to be removed and not re-used shall remain the property of the Division 23 Contractor for credit to the contract price except as noted otherwise.

### **3.19 PIPE TESTING**

- A. General:
  - 1. All piping and fittings shall be of domestic manufacture.

## 2.25 GAUGES

- A. The controls contractor shall provide gages in the following locations, even if included as a sensor and monitored point in the control system:
  - 1. Pressure gages on both sides of all pumps greater than 1 hp.
  - 2. Specified thermometers in the return and supply of all primary thermal plant equipment (chillers, cooling towers, boilers, converters, etc.).

## PART 3 – EXECUTION

### 3.1 SUBMITTALS

- A. The Controls Contractor shall submit the manufacturer and lead installation technician data according to Part 1 of this section. Upon acceptance, proceed with shop drawings and other submittal data.
- B. The Controls Contractor shall follow the other submittal requirements in Section 013300 and 017300.

### 3.2 ELECTRICAL EQUIPMENT MONITORING

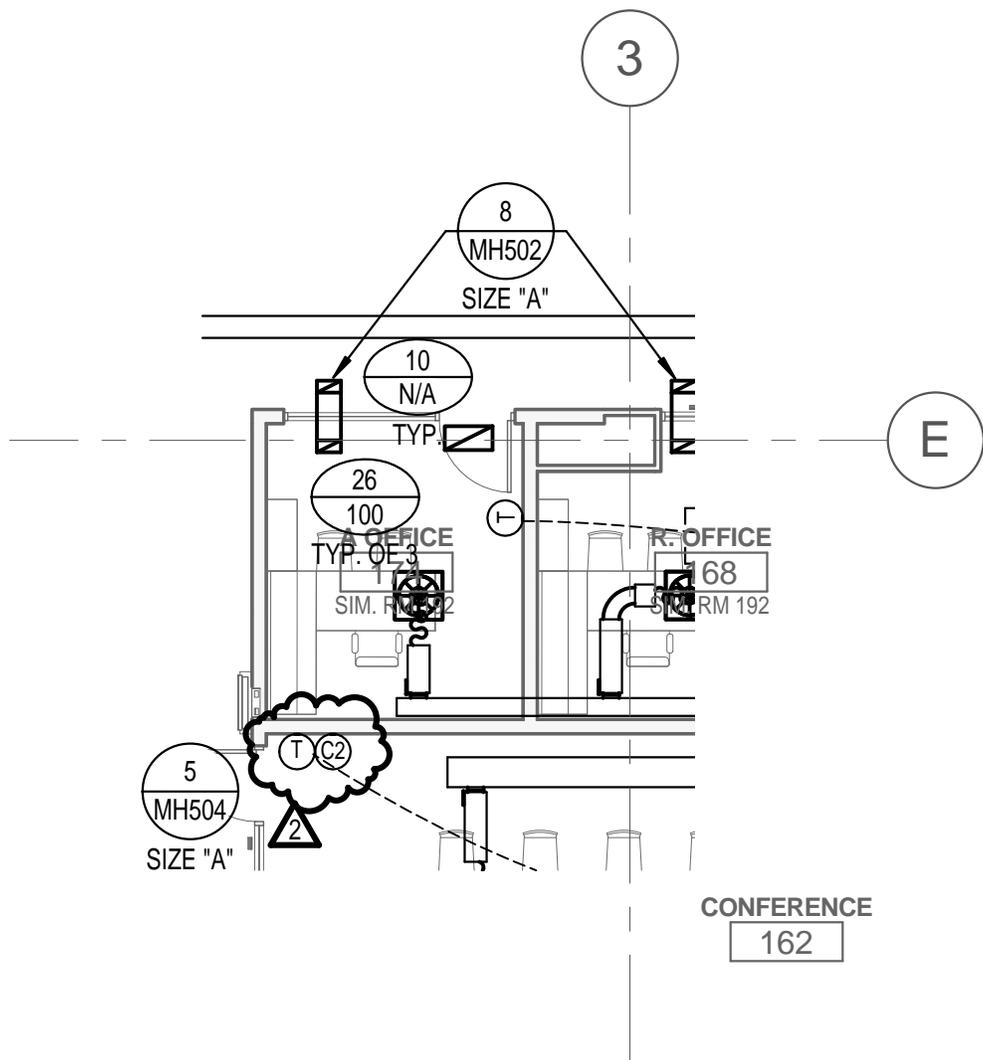
- A. Monitor the following electrical equipment and systems as described below:
  - 1. Main Electrical Gear: KY pulse output kW/hr demand
  - 2. Generator: Generator status, high level fuel alarm, low level fuel alarm, leak detection alarm, summary alarm.
  - 3. Transfer Switch: Switch position (normal/emergency), normal power available, summary alarm.
  - 4. Lighting control panels: Provide BacNet or Lonworks interface to each lighting control panel. Monitor and map data points back to head end.
  - 5. UPS System: UPS on battery, UPS on-line, IPS load-on bypass, summary alarm, maintenance bypass position.

## PART 4 – SEQUENCE OF OPERATION

### 4.0 SEQUENCE OF OPERATION

- A. Refer to schematic drawings for Sequence's of Operation not describe herein.

**END OF SECTION 23 0900**



PROJECT:  
HOLLAND CENTENNIAL  
COMMONS

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ORIGINAL SHEET NO:  
MH101

Sheet Title:  
MECHANICAL ADDENDUM #2  
ADDED CO2 SENSOR



**Colvin ENGINEERING ASSOCIATES, Inc.**  
244 West, 300 North, Suite 200 / Salt Lake City, Utah 84103-1108  
(801) 322-2400 / Fax (801) 322-2416

DATE: 12/30/10  
BY: MCS

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

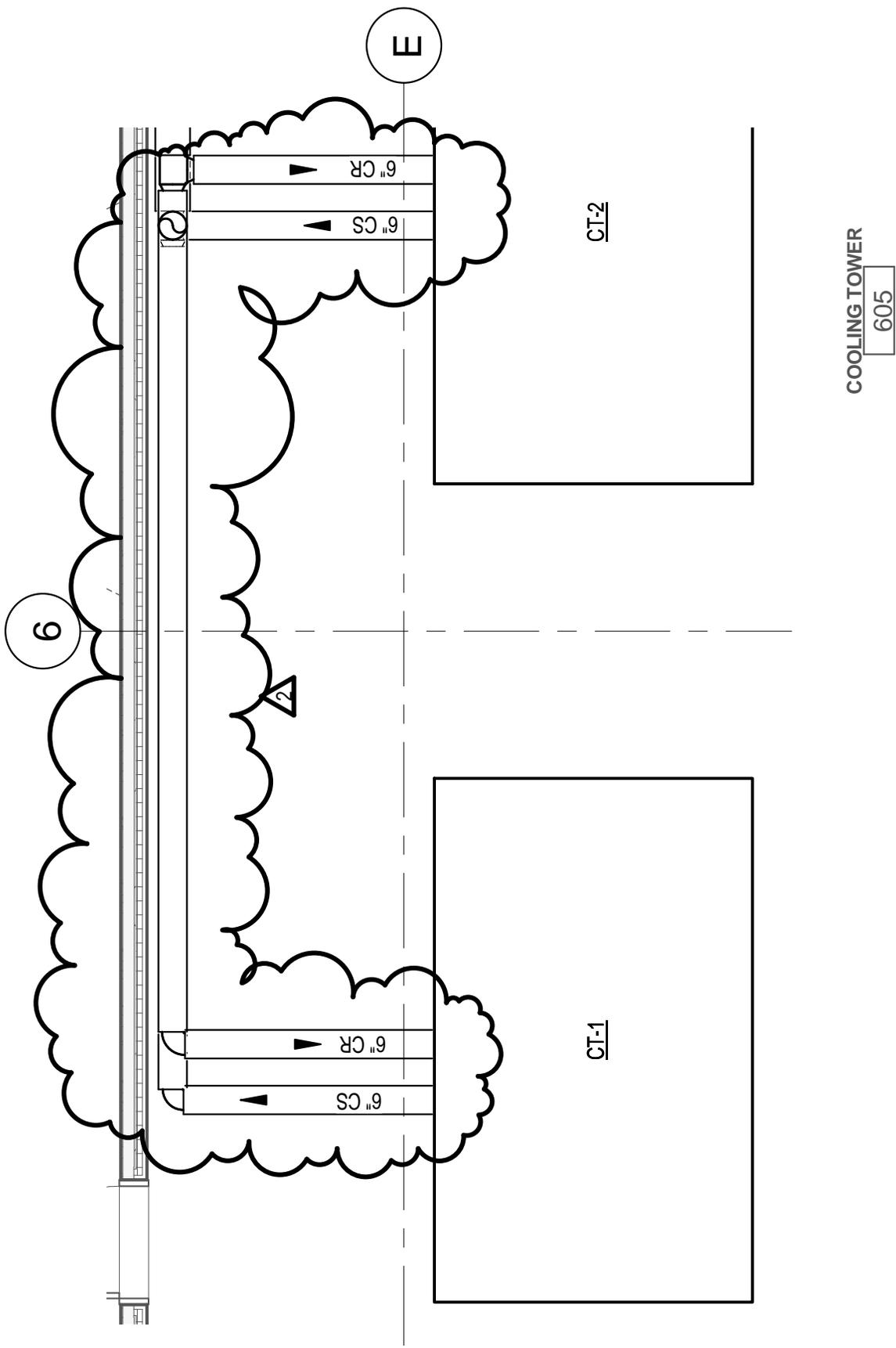
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JOB NO:  
2010-004.00

ARCH REF:

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ADD  
2.01



PROJECT:  
HOLLAND CENTENNIAL  
COMMONS

ORIGINAL SHEET NO:  
MH402

Sheet Title:  
MECHANICAL ADDENDUM #2  
PIPE SIZE CHANGES

**Colvin ENGINEERING ASSOCIATES, Inc.**  
 244 West, 300 North, Suite 200 / Salt Lake City, Utah 84103-1108  
 (801) 322-2400 / Fax (801) 322-2416

DATE: 12/30/10  
BY: MCS

SCALE:  
1/4" = 1'-0"  
JOB NO:  
2010-004.00

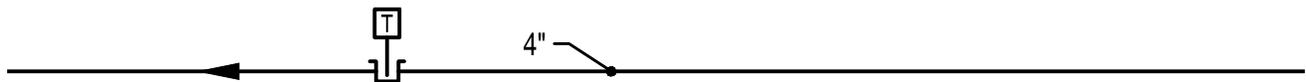
ARCH REF:

ADD  
2.02

AI: HS TEMP 3 ###°F

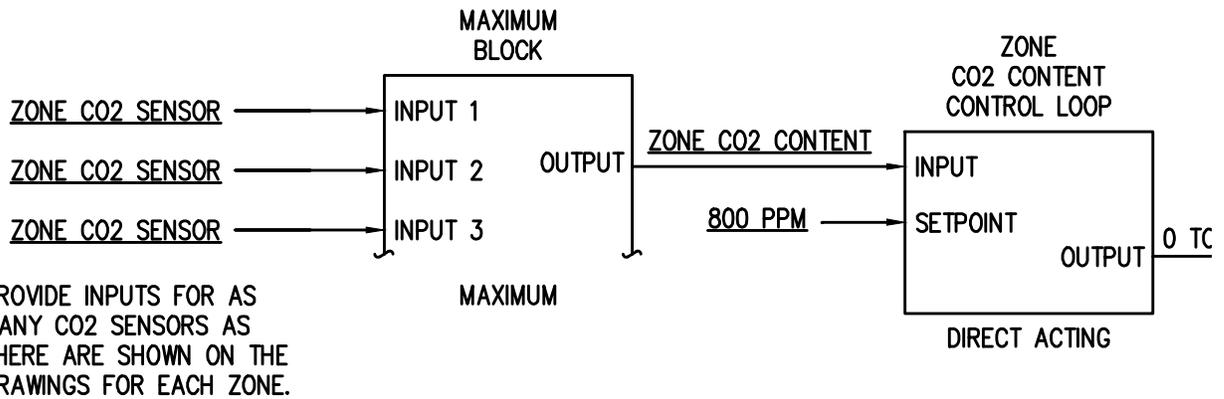


AI: HS TEMP 1 ###°F



# WATER SYSTEM

Project: <b>HOLLAND CENTENNIAL COMMONS</b>	Sheet Title: <b>MECHANICAL ADDENDUM #2 HEATING WATER PIPE SIZE CHANGES</b>	Date: 12/30/2010	ARCH REF:
		By: MCS	
Original Sheet No: <b>ADD 2</b>	 <b>Colvin Engineering Associates, Inc.</b> 244 West, 300 North, Suite 200 / Salt Lake City, Utah 84103-1108 (801) 322-2400 / Fax (801) 322-2416	Scale: 1/8" = 1'-0"	<b>H202 2.03</b>
		Job No: 2010-004.00	



Project: <b>HOLLAND CENTENNIAL COMMONS</b>	Sheet Title: <b>MECHANICAL ADDENDUM #2 CO2 SENSOR CONTROLS ADDED</b>	Date: 12/30/2010	ARCH REF:
		By: MCS	
Original Sheet No: <b>MH204</b>	 <b>Colvin Engineering Associates, Inc.</b> 244 West, 300 North, Suite 200 / Salt Lake City, Utah 84103-1108 (801) 322-2400 / Fax (801) 322-2416	Scale: 1/8" = 1'-0"	<b>ADD 2.04</b>
		Job No: 2010-004.00	