



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. 2

Date: December 9, 2010  
To: Short-Listed Contractors  
From: Darrell Hunting– Project Manager  
Reference: New Ogden Driver License Building  
Department of Public Safety – Ogden, Utah  
DFCM Project No. 10052550  
Subject: **Addendum No. 2**

Pages	Addendum Cover Sheet	1 page
	<u>Architect's Addendum No. 2</u>	<u>37 pages</u>
	Total	38 pages

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

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

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

**2.2 GENERAL INFORMATION:** See attached Architect's Addendum No. 2 dated December 9, 2010.



JRCA Architects  
 577 South 200 East  
 Salt Lake City, Utah 84111  
 (801) 533-2100 Phone  
 (801) 533-2101 Fax  
 www.jrcadesign.com

## Addendum No. 2

DATE: December 09, 2010

PROJECT: Ogden Driver License Building Replacement  
 South Ogden, Utah  
 DFCM Project Number: 10052550

OWNER: DFCM  
 State of Utah

ARCHITECT: JRCA Architects  
 577 South 200 East  
 Salt Lake City, Utah 84111

Incorporate the following revisions to the Specifications, Drawings and other Contract Documents of the above named project. General Items are not referenced. Revisions to the Specifications are referenced by section, page number, and paragraph number. Revisions to the Drawings are referenced by drawing sheet number. This addendum forms part of the Construction Documents.  
 The end of this Addendum is indicated by the note "END OF ADDENDUM". Attachments are located at the end of the Addendum and are referenced in the Addendum.

**GENERAL ITEMS:**

<u>Item No.</u>	<u>Description</u>												
2-1	THIS PROJECT REQUIRES SOIL STABILIZATION MEASURES Engineering, design and installation of the soil stabilization system shall be provided by the Contractor. For additional soil stabilization requirements see addendum item 2-95 in this addendum.												
2-2	The General Contractor shall procure the services of a Utility Locating Firm(s) to located private and public utilities on the site. The General Contractor is responsible for locating the following utilities: natural gas, propane, electrical, communications, cable tv, fiber optics, sanitary sewer, culinary water, secondary water, roof drain and storm drain.												
2-3	Division 22 and 23 PRIOR APPROVALS: The following manufacturers, trade names and products are allowed to bid on a name brand only basis with the provision that they completely satisfy all and every requirement of the drawings, specifications and all addenda shall conform to the design, quality and standards specified, established and required for the complete and satisfactory installation and performance of the building and all its respective parts. <table border="0" style="margin-left: 20px;"> <thead> <tr> <th style="text-align: left;"><u>Item</u></th> <th style="text-align: left;"><u>Manufacturer</u></th> </tr> </thead> <tbody> <tr> <td>Expansion Tank</td> <td>Elbi</td> </tr> <tr> <td>Water Cooler</td> <td>Acorn</td> </tr> <tr> <td>Water Heater</td> <td>Rheem</td> </tr> <tr> <td>Sink</td> <td>Elkay</td> </tr> <tr> <td>Plumbing Accessories</td> <td>Elkay</td> </tr> </tbody> </table>	<u>Item</u>	<u>Manufacturer</u>	Expansion Tank	Elbi	Water Cooler	Acorn	Water Heater	Rheem	Sink	Elkay	Plumbing Accessories	Elkay
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Expansion Tank	Elbi												
Water Cooler	Acorn												
Water Heater	Rheem												
Sink	Elkay												
Plumbing Accessories	Elkay												
2-4	Division 26 PRIOR APPROVALS: The following items, trade names, products and manufacturers are approved for bidding. Approval does not relieve the bidder from satisfying the intent of the requirements of drawings, specifications and addenda in every respect. Failure to conform to the design quality and standards specified, established and required may result in later disapproval. If equipment must be disapproved after bidding, supplier shall supply specified equipment at no extra cost to the Owner. Items are listed generally and specific model number, etc. shall be as submitted. Items submitted but not approved, either did not satisfy the requirements, or showed insufficient data, or arrived after the 8 day deadline established for submittals 1. Light Fixtures <table border="0" style="margin-left: 20px;"> <tbody> <tr> <td>A</td> <td>LOL QVS2GPFLV232-UNV-HI .71BF</td> </tr> <tr> <td>A1</td> <td>LOL SPS1GFSVI232-UNV-HI .71BF / FK91X4</td> </tr> <tr> <td>A2</td> <td>LOL QVS2GPFLV232-UNV-HI BI-LEVEL DIMMING BALLAST</td> </tr> <tr> <td>A3</td> <td>LOL QVS2GPFLV332-UNV-H3 DUAL LEVEL SWITCHING (2 BALLASTS)</td> </tr> <tr> <td>C</td> <td>EXC P-R-3-S-W-132-HF-L-SCBA-8-B-O-SCBA</td> </tr> <tr> <td>D6</td> <td>LOL 8031CCLW / S6132BU</td> </tr> </tbody> </table>	A	LOL QVS2GPFLV232-UNV-HI .71BF	A1	LOL SPS1GFSVI232-UNV-HI .71BF / FK91X4	A2	LOL QVS2GPFLV232-UNV-HI BI-LEVEL DIMMING BALLAST	A3	LOL QVS2GPFLV332-UNV-H3 DUAL LEVEL SWITCHING (2 BALLASTS)	C	EXC P-R-3-S-W-132-HF-L-SCBA-8-B-O-SCBA	D6	LOL 8031CCLW / S6132BU
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01 VISN ALX-1-200-P-2-BOA6-SCBA-DF208  
 01 VAL DS330S400W200  
 02 VISN (2)ALX-1-200-P-2-BOA6-SCBA-DF208  
 02 VAL DS330S400W200  
 OF HAD WA3-SCBA-HS-N-70H-1  
 S1 LOL SW4S232HPF-UNV-HI .71BF / AWG3W CSP / AH5CSP  
 SC1 VISN MHC-1-T?-32X2-CF-UNV-DL-SCBA  
 UC2 LOL TCF125WUNVRO-BPR  
 X1 LOL LDSNUGW  
  
 A FOCAL POINT FLU-24-B-2T8-S(QTP2X32T8)UNV-G-RPL-WH  
 A1 METALUX FC8-RA-232A125-UNV-QTP-2X32T8/UNV-PSX-TC  
 A2 FOCAL POINT FLU-24-B-2T8-DA-UNV-G-RPL-WH  
 A3 FOCAL POINT FLU-24-B-3T8-S-UNV-G-RPL-SC-WH  
 C FAILSAFE TRR15-O-132-MT-SCBA  
 D6 PORTFOLIO C6142E / 6151LI  
 O1 LUMARK MPTR-4S-200-MT-F2/MA1218-XX/SSS4A20S-SCBA-1  
 O2 LUMARK 2MPTR-4S-200-MT-F2/MA1218-XX/SSS4A20S-SCBA-2  
 OF LUMARK MPMS-K-HF-70-MT-F-SCBA  
 S1 METALUX SSF-232-UNV-QTP-2X32T8/UNV-PSX-TC WG/SSF-4FT  
 AYC-CHAIN SET  
 UC2 HEALTHCARE HUC436-120-SX-RS-GW  
 X1 ISOLITE LPDC-AC-G-S-SCBA-UN

**SPECIFICATION ITEMS:**

<u>Item No.</u>	<u>Section or Sheet No.</u>	<u>Description</u>
2-5	033000	Page 1, Add item 1.4.B.2. as follows: "2. Product Certificates for Credit MR 5.1: For products and materials required to comply with requirements for regional materials indicating location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating cost for each regional material and the fraction by weight that is considered regional."
2-6	033000	Page 5, Add item 2.4.E. as follows: "E. Regional Materials: Provide concrete materials that have been manufactured within 500 miles (800 kkm) of Project site foam aggregates and cement that have been extracted, harvested or recovered, as well as manufactured, within 500 miles (800 km) of Project site."
2-7	042000	Page 1, Add item 1.2.A.9. as follows: "9. Masonry-cell insulation."
2-8	042000	Page 6, change item 2.4.B.8. to the following: "8. Color and Texture: Interstate Brick Mountain Red or equal, smooth."
2-9	042000	Page 10, Add item 2.13 as follows: "2.13 MASONRY-CELL INSULATION A. Loose-Granular Fill Insulation: Perlite complying with ASTM C 549, Type II (surface treated for water repellency and limited moisture absorption) or Type IV (surface treated for water repellency and to limit dust generation)."
2-10	042000	Page 13, Omit item 3.7.A.5.: "Space anchors..."
2-11	042000	Page 3, Add item 1.5.K. as follows: "K. Product Certificates for Credit MR 5.1: For products and materials required to comply with requirements for regional materials indicating location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating cost for each regional material and the fraction by weight that is considered regional."
2-12	042000	Page 5, Add item 2.2.C. as follows: "C. Regional Materials: Provide CMUs that have been manufactured within 500 miles (800 km) of Project site foam aggregates and cement that have been extracted, harvested or recovered, as well as manufactured, within 500 miles (800 km) of Project site."
2-13	042000	Page 6, Add item 2.5.H. as follows: "H. Regional Materials: Provide aggregate for mortar and grout, cement and lime that have been extracted harvested or recovered as well as manufactured, within 500 miles (800 km) of Project site."
2-14	042000	Page 17, add item 3.15 as follows: "3.15 MASONRY-CELL INSULATION A. Pour granular insulation into cavities to fill void spaces. Maintain inspection ports to show presence of insulation at extremities of each pour area. Close the ports after filling has been confirmed. Limit the fall of insulation to one story high, but not more than 14 feet. "

- 2-15 072100 Page 1, Add 1.5.E as follows:  
 "E. LEED Submittal:  
 1. Product Data for Credit MR 4.1: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating costs for each product having recycled content. "
- 2-16 072100 Page 2, Add 2.2.C. and D. as follows:  
 "C. Sustainability Requirements: Provide glass-fiber blanket insulation as follows:  
 1. Free of Formaldehyde: Insulation manufactured with 100 percent acrylic binders and no formaldehyde.  
 2. Low emitting: Insulation tested according to ASTM D 5116 and shown to emit less than 0.05-ppm formaldehyde.  
 D. Recycled Content of Insulation Products: Provide products with an average recycled content of insulation products to postconsumer recycled content plus one-half of preconsumer recycled content is not less than 22 percent."
- 2-17 074213 Page 3, Add item 1.5.L. as follows:  
 "L. LEED Submittal:  
 1. Product Data for Credit MR 4.1: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating costs for each product having recycled content. "
- 2-18 074213 Page 7, Add item 2.4.C. as follows:  
 "C. Recycled Content of Wall Panel Products: Provide products with an average recycled content of steel products so postconsumer recycled content plus one-half of preconsumer recycled content is not less than 25 percent. "
- 2-19 075419 Page 3, Replace item 1.9 with:  
 "1.9 WARRANTY  
 A. Comply with DFCM Manufacturer Guaranty included in the DFCM Design Requirements located on the DFCM Website. The DFCM Website address is: [dfcm.utah.gov](http://dfcm.utah.gov). Or refer to the following link: [http://dfcm.utah.gov/downloads/Roofing/Contractor%20Roofing%20Warranty%20\(final\).pdf](http://dfcm.utah.gov/downloads/Roofing/Contractor%20Roofing%20Warranty%20(final).pdf).  
 B. Comply with DFCM Contractor Roof Warranty included in the DFCM Design Requirements located on the DFCM Website. The DFCM Website address is: [dfcm.utah.gov](http://dfcm.utah.gov). Or refer to the following link: [http://dfcm.utah.gov/downloads/Roofing/Warranty%20for%20Single%20Ply%20Roofing%20\(final\).pdf](http://dfcm.utah.gov/downloads/Roofing/Warranty%20for%20Single%20Ply%20Roofing%20(final).pdf).
- 2-20 075419 Page 9, Replace item 3.9 with:  
 "3.9 ROOF INSTALLER'S WARRANTY  
 A. Comply with DFCM Contractor Roof Warranty included in the DFCM Design Requirements located on the DFCM Website. The DFCM Website address is: [dfcm.utah.gov](http://dfcm.utah.gov). Or refer to the following link: [http://dfcm.utah.gov/downloads/Roofing/Warranty%20for%20Single%20Ply%20Roofing%20\(final\).pdf](http://dfcm.utah.gov/downloads/Roofing/Warranty%20for%20Single%20Ply%20Roofing%20(final).pdf).
- 2-21 081113 Page 2, Add item 1.5.H. as follows:  
 "H. LEED Submittal:  
 1. Product Data for Credit MR 4.1: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating costs for each product having recycled content. "
- 2-22 081113 Page 4, Add item 2.3.E. as follows:  
 "E. Recycled Content of Steel Doors: Provide products with an average recycled content of steel products so postconsumer recycled content plus one-half of preconsumer recycled content is not less than 25 percent. "
- 2-23 081113 Page 6, Add item 2.4.K. as follows:  
 "K. Recycled Content of Steel Frames: Provide products with an average recycled content of steel products so postconsumer recycled content plus one-half of preconsumer recycled content is not less than 25 percent. "

- 2-24 081113 Page 2, add item 1.5.G. as follows:  
 "G. Exterior door and frame assemblies: Comply with 2009 IECC Air Leakage Requirements. Door and frame assemblies shall be labeled NFRC 400 by an accredited, independent laboratory."
- 2-25 084113 Page 2, change item 1.4.G. "Air Infiltration: Provide..." to:  
 "G. Air Infiltration for Site-constructed Storefront Systems: Provide aluminum-framed systems with maximum air leakage through fixed glazing and framing areas of 0.06 cfm/sq. ft. (0.03 L/s per sq. m) of fixed wall area when tested according to ASTM E 283 at a minimum static-air-pressure difference of 6.24 lbf/sq. ft. (300 Pa)."
- 2-26 084113 Page 3, add item 1.4.N. as follows:  
 "N. Thermal Conductance of Storefront Doors: Provide aluminum storefront doors having a U-factor of not more than .7 when tested according to AAMA 1503."
- 2-27 084113 Page 3, add item 1.4.M. as follows:  
 "M. Exterior Door and frame assemblies: Comply with 2009 IECC Air Leakage Requirements. Door and frame assemblies shall be labeled NFRC 400 by an accredited, independent laboratory."
- 2-28 081416 Page1, add item 1.3.E. as follows:  
 "E. LEED Submittals:  
 1. Product Data for Credit EQ 4.4: For adhesives and composite wood products, documentation indicating that product contains no urea formaldehyde.  
 2. Product Data for Credit MR 4.1: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer.  
 a. Include statement indicating costs for each product having recycled content."
- 2-29 081416 Page 3, add item 2.2.C. as follows:  
 "C. Recycled Content of Flush Wood Doors: Provide products with average recycled content of flush wood doors such that postconsumer recycled content plus one-half of preconsumer recycled content is not less than 35 percent."
- 2-30 087111 Page 6, Add 2.4.A.3. as follows:  
 "3. Yale"
- 2-31 087111 Page 7, Add 2.8.A.1.c. and d. as follows:  
 "c. Yale  
 d. Norton"
- 2-32 087111 Page 17, add HARDWARE GROUP #17 as follows:  
**"GROUP #17: 120B**
- | QUANTITY | ITEM        | MANUFACTURER | MODEL#    | SIZE/STYLE | FINISH & REMARKS  |
|----------|-------------|--------------|-----------|------------|-------------------|
| 1 Each   | Exit Device | Von Duprin   | CD98NL    |            | 696NLClear Anod.  |
| 1 Each   | Gear Hinge  | Hager        | 780-112HD |            | Cont. Clear Anod. |
| 1 Each   | Closer      | LCN          | 4040      |            | Cush-N-StopSilver |
| 1 Each   | Threshold   | Pemko        | 171A      |            | - Mill            |
- 2-33 093000 Page 10, change item 3.8.A.2. to the following:  
 "2. Tile Type and Product: 12"x12" Unglazed Paver Tile. Daltile Porcelain or Equal."
- 2-34 093000 Page 10, change item 3.8.C.2. to the following:  
 "2. Tile Type and Product: 12"x12" and 8"x8" Unglazed Paver Tile. Daltile Porcelain or Equal."
- 2-35 099123 Page 1, Add 1.3.E. as follows:  
 "E. LEED Submittal:  
 1. Product Data for Credit EQ 4.2: For paints, including printed statement of VOC content and chemical components."
- 2-36 101400 Page 3, change item 2.2.B.4. "Mounting: Concealed..." to:  
 "4. Mounting: Concealed studs for substrates encountered with 1 inch stand-off from face of substrate."

- 2-37 262713 Service Entrance - Add the following meter main panel MS:
- A. METERS: Provide meters, current and potential transformers, selector switches, wiring, etc. for a complete metering system. Provide meter of same manufacturer as switchboard (equal to Square D Power Logic Circuit Monitor, Class 3020, Model CM-3250), integrally mounted in service equipment, completely wired with control power input. Provide capability for metering the following data:
- |    |                               |                       |
|----|-------------------------------|-----------------------|
| B. | INSTANTANEOUS READINGS        | DEMAND READINGS       |
| 1. | RMS Current Values            | Current Values        |
| a. | Phase A Current               | Average Demand        |
|    | Current Phase A               |                       |
| b. | Phase B Current               | Average Demand        |
|    | Current Phase B               |                       |
| c. | Phase C Current               | Average Demand        |
|    | current Phase C               |                       |
| d. | 3-Phase Average Current       | Peak Demand Current   |
|    | Phase A                       |                       |
| e. | Apparent RMS Current          | Peak Demand Current   |
|    | Phase B                       |                       |
| f. | RMS Voltage Values            | Peak Demand Current   |
|    | Phase C                       |                       |
| g. | Phase A-B Voltage             | Real Power Values     |
| h. | Phase B-C Voltage             | Average Demand Real   |
|    | Power                         |                       |
| i. | Phase C-A Voltage             | Predicted Demand Real |
|    | Power                         |                       |
| j. | Phase A-N Voltage             | Peak Demand Real      |
|    | Power                         |                       |
| k. | Phase B-N Voltage             | Phase C-N Voltage     |
| 2. | Power Factor Values           | ENERGY READINGS       |
| a. | Phase A Power Factor          | Energy Accumulated    |
| b. | Phase B Power Factor          | Reactive Energy       |
| c. | Phase C Power Factor          |                       |
|    | Accumulated                   |                       |
| d. | 3-Phase Total Power Factor    |                       |
| e. | 3-Phase Total Power Values    |                       |
| f. | Real Power, 3-Phase Total     |                       |
| g. | Reactive Power, 3-Phase Total |                       |
| h. | Apparent Power, 3-Phase Total |                       |
| i. | Frequency                     |                       |
| j. | Temperature                   |                       |
- C. Provide with integral display, selection keys, and indicating LEDs. For each instantaneous reading, provide a running maximum and minimum history in non-volatile memory, capable of externally operated reset. Provide "waveform capture" feature to allow subsequent analysis of actual current and voltage profile for harmonic distortion.
- 2-38 312000 Page 10, change 3.15.C.1. to:  
 "1. Under structures, building slabs steps and pavements, scarify and recompact top 12 inches of existing subgrade and each layer of backfill or fill soil material at 95 percent and each layer of base course at 96 percent."  
 Note: all base course placed beneath asphalt paving shall be compacted at 96 percent of maximum dry unit weight according to ASTM D 1557.
- 2-39 321216 Page 4, change item 2.4.A.2.b. to:  
 "b. Surface Course (asphalt) aggregate gradation shall meet the following gradation:
- | Size       | % by Weight Passing Sieve |
|------------|---------------------------|
| 1/2 inch   | 100                       |
| 3/8 inch   | 70 to 100                 |
| #4 Sieve   | 50 to 78                  |
| #16 Sieve  | 30 to 48                  |
| #50 Sieve  | 18 to 31                  |
| #200 Sieve | 7 to 13"                  |
- 2-40 321216 Page 4, add item 2.4.A.3 as follows:  
 "3. Asphalt mix design shall comply with Marshall Design with voids 1.5% to 3.0%."
- 2-41 321216 Page 4, omit items: 2.3.D. "Pavement-Marking..." through 2.3.G. "Pavement-Marking..."  
 Add item: 2.3.D.: "Pavement-Marking Paint: State of Utah #780. Spread at the rate of 103-113 square feet per gallon. Minimum thickness shall be 7 dry mil."
- 2-42 321216 Page 6, add item 3.4.D.3. as follows:  
 "3. Tack coat all adjoining materials, ie previously constructed asphalt, concrete, etc. except untreated base course."
- 2-43 321216 Page 6, delete item 3.4.C.: "C. Prime Coat: Apply..."

- 2-44 321216 Page 6, add item 3.5.A.6. as follows:  
 "6. Place hot-mix asphalt as per DFCM Design Requirements located on the DFCM Website. The DFCM Website address is: dfc.utah.gov.
- 2-45 328400 Page 1, add item 1.3.E. as follows:  
 "E. Point of Connection (POC) (main connection) shall be installed in the following recommended order 1-connection to source, 2-stop and waste valve, 3-filtration system, 4-pressure regulator, 5-backflow preventer (where required), 6-quick coupler blowout, 7-master valve and 8-flow meter."
- 2-46 328400 Page 4, add 2.4.B. as follows:  
 "B. Install flow sensor and master valve. A normally open master valve is acceptable if the controller is capable to shut the valve off in event of unscheduled flow."
- 2-47 328400 Page 8, add 3.10.B.4. as follows:  
 "4. During construction, site inspections of the landscaping may be performed DFCM or the Agency."
- 2-48 328400 Page 8, add 3.11.B. as follows:  
 "B. Irrigation Record Drawings and Operations/Maintenance Manuals  
 1. Irrigation record drawings and operations and maintenance manuals are to be turned over to DFCM at project completion prior to final acceptance.  
 2. The following shall be included on Irrigation Record Drawings. In addition, provide a reduced color-coded drawing showing all zones and assigned valves.  
 3. Note all points of connection (POC) including tap size, line size and static water pressure of service.  
 4. Provide name and phone number of the servicing water purveyor. Include the name and date the installation was completed and the date the as-built drawing was approved.  
 5. A signed and dated written description of the contractor's warranty and warranty period. Include name, address, phone number and license number.  
 6. A description of system start up and winterization process.  
 7. All product literature and customer service information for products used/installed on project.  
 8. Accurately locate all of the following major components by dimension and their size as installed on the project:  
 a. Pressure reducing valves noting pressure settings  
 b. Filters  
 c. Stop and waste valve  
 d. Master control valve  
 e. Isolation and gate valves  
 f. Control wire junction boxes  
 g. Flow sensors  
 h. Remote control valves  
 i. Quick coupler valves and hose bibs  
 j. Pressure main lines and sizes  
 k. Main line sleeves and sizes  
 l. Manual drain valves and sumps  
 m. Remote control wire (label both ends and in junction boxes)  
 n. Controller location  
 o. Rain sensor  
 p. Note and identify the location of existing utility systems encountered during installation i.e. gas, phone, sewer, etc."
- 2-49 328400 Page 8, add 3.12.D. and E. as follows:  
 "D. A monthly irrigation schedule shall be prepared by the contractor to cover the initial 120-day plant establishment period and the following one-year period. Follow format included in State of Utah Landscape and Irrigation Standards.  
 E. For valves with overhead sprays set valves to operate between 6:00 pm and 10:00 am to reduce water loss from wind and evaporation."
- 2-50 328400 Page 8, add 3.14 as follows:  
 "3.14 POST CONSTRUCTION MONITORING  
 A. Following construction an inspection shall be scheduled with DFCM to verify compliance with the approved landscape and irrigation plans. A certificate of Substantial Completion Form shall be completed by the Contractor and submitted to DFCM.  
 B. Following construction a Water Use Efficiency Review (Audit) will be conducted by a certified Landscape Irrigation Auditor. The auditor shall be independent of the contractor, design firm and owner/developer of this project. The water performance audit will verify the irrigation system complies with the minimum standards required by State Ordinance. The auditor shall furnish a certificate to the DFCM, Architect and installer certifying compliance with the minimum distribution requirements and an irrigation schedule.

- 2-51 329300 Page 3, add 1.4.E.1. as follows:  
 "1. *Soils Report* shall mean a report by a soils laboratory indicating soil type(s), soil depth, soluble salts, texture, organic matter, coarse fragments, sodium adsorption ratio (SAR), nutrient concentrations, uniformity, composition, bulk density, infiltration rates, and pH for the top soil and subsoil and a given site. The soil report also includes recommendations for soil amendments."
- 2-52 329300 Page 9, add 3.3.A.3. as follows:  
 "3. Soil preparation shall be suitable to provide healthy growing conditions for the plants and to encourage water infiltration and penetration. Following scarifying operation, soil shall be amended with organic materials as per specific recommendations of the Landscape Architect based on recommendations of the Soils Report."
- 2-53 382201 Add attached specification section 382201 Access Control System.

**DRAWING ITEMS:**

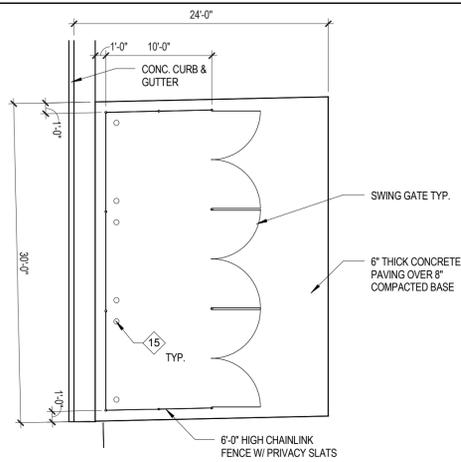
<u>Item No.</u>	<u>Section or Sheet No.</u>	<u>Description</u>
2-54	GI101	Change "PERMIT DOCUMENTS NOVEMBER 08, 2010" to "CONSTRUCTION DOCUMENTS NOVEMBER 08, 2010"
2-55	AS101	Replace Sheet AS101 in it's entirety with attached revised sheet AS101.
2-56	DS101	Change Key Note 12. to: "12. EXISTING FIRE HYDRANT TO BE RELOCATED. SEE CIVIL DRAWINGS"
2-57	DS101	Change Key Note 13. to: "2. EXISTING ANTENNA EQUIPMENT BUILDING TO REMAIN. BUILDING TO REMAIN IN OPERATION THROUGHOUT ENTIRE CONSTRUCTION PERIOD. MAINTAIN OWNER ACCESS TO BUILDING AND ANTENNA AT ALL TIMES. CONTRACTOR SHALL LOCATE AND PRESERVE EXISTING ELECTRICAL SERVICE. CONTRACTOR SHALL LOCATE AND PRESERVE EXISTING QWEST SERVICE."
2-58	DS101	Change Key Note 23 to: "23. EXISTING BUILDING TO BE REMOVED IN IT'S ENTIRETY INCLUDING ALL UTILITIES, BASEMENT AND ALL OTHER BUILDING COMPONENTS. FIELD VERIFY SCOPE OF DEMOLITION PRIOR TO BID. SEE PHASING NOTE THIS SHEET. BACKFILL VOID RESULTING FROM DEMOLITION OF BUILDING AND BASEMENT WITH ACCEPTABLE FILL. "
2-59	DS101	Add Key Note 11. as follows: "11. SEE CIVIL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS"
2-60	C-1	Revise sheet C-1 as per attached partial utility plan. Existing fire hydrant to be relocated.
2-61	C-2	Where noted at all locations on sheet C-1, untreated base course below asphalt pavement shall be 8 inches in lieu of 6 inches.
2-62	C-2	Add General Note 7. as follows: "7. NO VEHICULAR TRAFFIC WILL BE ALLOWED ON THE NEW PAVEMENT STRUCTURE FOR AT LEAST 24 HOURS AFTER LAYING ASPHALT PAVEMENTS."
2-63	C-4	Omit the following detail: "HANDICAP ACCESS SIDEWALK RAMP" See sheets AS101 and AE501 for sidewalk ramp detail.
2-64	C-1	Revise sheet C-1 as per attached partial utility plan. Existing fire hydrant to be relocated.
2-65	AE101	Room 120; Add Key Note reference 10 (window blinds) to storefront on south wall.
2-66	AE101	Room 126; Add Key Note reference 10 (window blinds) to storefront on south wall.
2-67	AE101	Change Key Note 7 to: "7. CONT. 6 INCH METAL STUD BLOCKING, 8 FEET LONG @ 5 FEET AND 4 FEET AFF FOR FUTURE DISPLAY."
2-68	AE151	LEGEND: Replace LEGEND with revised LEGEND as per attachment AD2-1.
2-69	AE151	Add Key Note 2. reference to (5) skylights graphically shown as square containing circle and an X. Note: total quantity of unit skylights: (5) five.
2-70	AE161	Change ceiling heights in Room 119 from 12'-0" to 11'-6" and 11'-10" to 11'-4".
2-71	AE201	Add Key Note 14. as follows: "14. BOLLARD, SEE A2/AE501."
2-72	AE201	B4/AE201; Add Key Note Reference 14 to (4) bollards on the right side of Grid 1.

2-73	AE202	Add Key Note 13. as follows: "13. BOLLARD, SEE A2.AE501."
2-74	AE202	B4/AE202; Add Key Note Reference 14 to (4) bollards on the left side of Grid 1.
2-75	AE351	Add General Note 3. as follows: "3. PROVIDE AND INSTALL 6 INCH THICK FREE DRAINING GRAVEL BELOW ALL INTERIOR CONCRETE SLABS."
2-76	AE351	A1/AE351, A2/AE351, A3/AE351, A4/AE351, A5/AE351; Change Note: "1 1/2 INCH RIGID INSULATION" to "2 INCH RIGID INSULATION"
2-77	AE352	A1/AE352, A2/AE352, A3/AE352, A4/AE352; Change Note: "1 1/2 INCH RIGID INSULATION" to "2 INCH RIGID INSULATION"
2-78	AE352	Add General Note 3. as follows: "3. PROVIDE AND INSTALL 6 INCH THICK FREE DRAINING GRAVEL BELOW ALL INTERIOR CONCRETE SLABS."
2-79	AE353	A1/AE353, A5/AE353; Change Note: "1 1/2 INCH RIGID INSULATION" to "2 INCH RIGID INSULATION"
2-80	AE353	Add General Note 3. as follows: "3. PROVIDE AND INSTALL 6 INCH THICK FREE DRAINING GRAVEL BELOW ALL INTERIOR CONCRETE SLABS."
2-81	AE354	Add General Note 3. as follows: "3. PROVIDE AND INSTALL 6 INCH THICK FREE DRAINING GRAVEL BELOW ALL INTERIOR CONCRETE SLABS."
2-82	AE355	A3/AE355, A4/AE355, A5/AE355; Change Note: "1 1/2 INCH RIGID INSULATION" to "2 INCH RIGID INSULATION"
2-83	AE355	Add General Note 3. as follows: "3. PROVIDE AND INSTALL 6 INCH THICK FREE DRAINING GRAVEL BELOW ALL INTERIOR CONCRETE SLABS."
2-84	AE355	A4/AE355; Replace A4/AE355 with revised A4/AE355 as per attachment AD2-4.
2-85	AE356	Add General Note 3. as follows: "3. PROVIDE AND INSTALL 6 INCH THICK FREE DRAINING GRAVEL BELOW ALL INTERIOR CONCRETE SLABS."
2-86	AE356	A3/AE356; Change Note: "1 1/2 INCH RIGID INSULATION" to "2 INCH RIGID INSULATION"
2-87	AE356	A3/AE356; Change Note: "1 INCH FIBER BOARD INSULATION" to "1 INCH GLASS FIBER BOARD INSULATION"
2-88	AE401	A3/AE401; Replace A3/AE401 with revised A3/AE401 as per attachment AD2-6.
2-89	AE501	C1/AE501; Replace C1/AE501 with revised C1/AE501 as per attachment AD2-2.
2-90	AE501	A3/AE501; Replace A3/AE501 with revised A3/AE501 as per attachment AD2-5.
2-91	AE521	Change Detail Reference 1/AE521 to B3/AE521.
2-92	AE571	A1/AE571; Replace A1/AE571 with revised A1/AE571 as per attachment AD2-5.
2-93	AE591	Add detail D5/AE591 as per attachment AD2-3.
2-94	AE601	DOOR AND FRAME SCHEDULE; change HEAD and JAMB DETAILS from A2 to D5 for the following doors: 120A, 121A, 122A, 123A, 124A, 125A, 127A, 128A, 129A.

- 2-95 S001 GENERAL STRUCTURAL NOTES: EARTHWORK; change EARTHWORK note 1. to the following:
- “1. SOIL STABILIZATION: Contractor shall provide complete engineering, design and installation for soil stabilization system.
- a. Stabilize soils to a depth of 23 feet below existing grade.
  - b. Stabilized soils shall extend 7 feet beyond the perimeter of the building and building canopies footprint.
  - c. Engineering of the soil stabilization system shall be performed by an engineer licensed in the State of Utah and acceptable to the State Building Official.
  - d. The design shall provide mitigation of liquefaction potential. Design and improve soil such that liquefaction-induced settlements resulting from the design seismic event will be less than 1 inch total and ½ inch differential in 20 feet. Provide a minimum factor of safety against liquefaction of 1.1.
  - e. Soil stabilization engineering and design shall be submitted for review and approval by the State Building Official by the contractor. Contractor shall bear all costs associated with additional engineering and design required to receive approval by the State Building Official.
  - f. Contractor is responsible for removal of all spoils generated by soil stabilization system installation.
  - g. Consult the Geotechnical Investigation Report for further earthwork requirements.”
- 2-96 S001 GENERAL STRUCTURAL NOTES: METAL DECKING; change METAL DECKING notes as per attachments SK002 and SK003.
- 2-97 S111 Change detail reference at intersection of Grid 1 and Grid C.9. from 14/S514 to 14/S513.
- 2-98 S511 Replace 9/S511 with revised detail 9/S511 as per attachment SK005. NOTE: THE REVISIONS TO DETAIL 9/S511 ALSO PERTAIN TO DETAILS 9, 10, 11, 12 AND 13 ON SHEET S511.
- 2-99 S512 Replace 10/S512 with revised detail 10/S512 as per attachment SK006. NOTE: THE REVISIONS TO DETAIL 10/S512 ALSO PERTAIN TO DETAILS 10, 11, 12, 13, 14 AND 15 ON SHEET S512.
- 2-100 S513 Replace 6/S513 with revised detail 6/S513 as per attachment SK007. NOTE THE REVISIONS TO DETAIL 6/S513 ALSO PERTAIN TO DETAILS 6, 9, 10, 11, 13 AND 15 ON SHEET S513.
- 2-101 E001
1. Fixture Schedule:
    - a. Type A4 contractor allowance = \$900 each. \$5000 min for freight included.
    - b. Type A2 is a 2 lamp fixture with one step ballast with 100%/50% light output.
    - c. Type A3 is a 3 lamp fixture with a 1 lamp ballast, and 2 lamp ballast for dual switching.
    - d. Change fluorescent lamp color temperature for all lamps to 3500 K
    - e. Provide a minimum of 0 degree F starting temperature for all exterior rated fluorescent fixtures.
  2. Symbol Schedule – See attached additional symbol descriptions.
- 2-102 E101
1. Provide (2) 4” conduits from the new building telephone panel to the Qwest facilities in the road north of the existing Drivers License Building per attached revised Electrical Site Plan. Use wide sweep elbows. Provide pull rope. Coordinate exact location with the General Contractor after Blue Stake marking is completed. Qwest contact is Gary Weaver (801) 626-5380.
  2. Provide (1) 4” conduit from the new transformer pad to a new pad mounted sectionalizer cabinet, and from the sectionalizer cabinet to the existing sectionalizer cabinet located approximately 360’ west of the existing Drivers License building transformer. Provide a concrete sectionalizer pad per Rocky Mountain Power requirements and coordinate exact location with Rocky Mountain Power. Provide trenching, backfilling and asphalt repair as required. Rocky Mountain Power contact is Craig Garner (801) 629-4432.
  3. See attached Pacificop Map showing approximate location of existing sectionalizer cabinet referred to in note 2 above.
  4. See attached revised Sheet E101:

- |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-103 | E302 | <ol style="list-style-type: none"><li>1. Circuit exterior CCTV camera junction boxes to panel EM, circuit #22 instead of circuit LE-16 shown.</li><li>2. Add a weatherproof GFI outlet adjacent to RTU-2 and circuit to P-73</li><li>3. Add a weatherproof GFI outlet adjacent to RTU-3B and circuit to P-73.</li><li>4. Move the pushbutton for the single ADA door operator on Grid 3 to the west side of the door.</li><li>5. Delete the pushbutton for the double ADA door operator on Grid 3 at the west side of the doors.</li><li>6. Circuit the four duplex outlets on Grid 3 that are not circuited to P-39</li><li>7. Change designation for panel noted as CCTV in Communications Room to Card Access.</li><li>8. Extend the cable tray around all four walls of the Communications Room.</li></ol> |
| 2-104 | E402 | <ol style="list-style-type: none"><li>1. Change designation for panel noted as CCTV in Communications Room to Card Access Panel. Provide a data conduit from the Card Access Panel to the MDF rack in the Communications Room.</li><li>2. Provide panic button at each desk in the service area and tie to new security system panel.</li><li>3. Provide a data conduit from the media link controller in the training room to the cable tray.</li></ol>                                                                                                                                                                                                                                                                                                                                                       |
| 2-105 | E502 | <ol style="list-style-type: none"><li>2. Panels LE, LA, and EM shall be 30 circuit panels not 42 circuit panels as shown.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2-106 | E703 | <ol style="list-style-type: none"><li>1. See attached Seismic Bracing Diagram for Conduit.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2-107 | E704 | <ol style="list-style-type: none"><li>1. See attached Seismic Bracing Diagram for Cable Tray.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**END OF ADDENDUM**



D5 ENLARGED DUMPSTER AREA  
AS101 SCALE 1/8" = 1'-0"



PHASING NOTES:

PHASE ONE: PHASE ONE IS DEFINED ON THIS SHEET AND ON SHEET DS101. PHASE ONE INCLUDES THE ENTIRE PROJECT EXCEPT FOR PHASE TWO. PHASE ONE SHALL BE COMPLETE (INCLUDING ALL PUNCHLIST ITEMS) AND OCCUPIED BY THE OWNER PRIOR TO COMMENCEMENT OF PHASE TWO WORK.

PHASE TWO: PHASE TWO IS DEFINED ON THIS SHEET AND ON SHEET DS101. PHASE TWO WORK SHALL NOT COMMENCE UNTIL PHASE ONE IS COMPLETE (INCLUDING ALL PUNCHLIST ITEMS) AND OCCUPIED BY THE OWNER.

NOTE: THE ANTICIPATED DURATION REQUIRED FOR THE OWNER TO MOVE FROM THE EXISTING DLD BUILDING TO THE PHASE ONE DLD BUILDING IS 7 DAYS.

GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING LANDSCAPING AND SITE IMPROVEMENTS INDICATED TO REMAIN, WHICH ARE TO REMAIN FREE FROM DAMAGE DURING CONSTRUCTION BOTH INSIDE AND OUTSIDE THE CONTRACT LIMIT LINE. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED ITEM OR SITE IMPROVEMENTS AS SPECIFIED, OR IF NOT SPECIFIED, TO MATCH EXISTING ADJACENT CONSTRUCTION.
- CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UTILITIES AND SITE IMPROVEMENTS WHICH ARE AFFECTED BY, OR WHICH TIE-IN WITH NEW CONSTRUCTION.
- PROVIDE TEMPORARY 6'-0" (MIN) HIGH CHAINLINK FENCE AT PROJECT LIMIT LINE, COMPLETE WITH GATES AS REQUIRED, UNLESS NOTED OTHERWISE.
- EXISTING ROAD, PARKING, SERVICE DRIVES, AND SIDEWALKS SHALL REMAIN ACCESSIBLE AND BE KEPT CLEAR OF CONSTRUCTION EQUIPMENT MATERIALS, MUD, DIRT, AND OTHER DEBRIS.
- SEE CIVIL AND LANDSCAPE DRAWINGS FOR EXTENT OF SITE WORK.
- CONTRACT LIMIT LINE DOES NOT PERTAIN TO SITE UTILITIES. PROVIDE PAVEMENT MARKINGS IN 8 INCH HIGH LETTERS STATING RESERVED FOR FUEL EFFICIENT VEHICLE. OCCURS AT 4 LOCATIONS TO BE DETERMINED BY ARCHITECT. PROVIDE AND INSTALL SIGN AS PER A1/AE501 - SIGN TO STATE: RESERVED FOR FUEL EFFICIENT VEHICLE. OCCURS AT 4 LOCATIONS TO BE DETERMINED BY ARCHITECT.

KEY NOTES:

- EXISTING PROPANE TANK TO REMAIN
- EXISTING ANTENNA EQUIPMENT BUILDING TO REMAIN. BUILDING TO REMAIN IN OPERATION THROUGHOUT ENTIRE CONSTRUCTION PERIOD. MAINTAIN OWNER ACCESS TO BUILDING AND ANTENNA AT ALL TIMES. CONTRACTOR SHALL LOCATE AND PRESERVE EXISTING ELECTRICAL SERVICE. CONTRACTOR SHALL LOCATE AND PRESERVE EXISTING QWEST SERVICE
- EXISTING CURB AND GUTTER TO REMAIN
- LINE OF EXISTING ASPHALT TO REMAIN
- CONCRETE CURB AND GUTTER, SEE CIVIL DRAWINGS
- PAVEMENT MARKINGS
- 4" THICK CONCRETE PAVING W/ 4'-0" X 4'-0" CONTROL JOINT PATTERN
- PROVIDE AND INSTALL PRIVACY SLATS TO EXISTING CHAINLINK FENCE AND GATES
- EXISTING FIRE HYDRANT TO BE RELOCATED. SEE CIVIL DRAWINGS
- 6" HIGH CHAINLINK FENCE AND GATE W/ PRIVACY SLATS
- 4" THICK CONCRETE PAVING. SEE CIVIL DRAWINGS
- ADA COMPLIANT SIDEWALK RAMP. SEE C2/AE501
- FLAGPOLE. OWNER PROVIDED CONTRACTOR INSTALLED. SEE A3/AE501
- ADA PARKING SIGN. SEE A1/AE501.
- BOLLARD. SEE A2/AE501
- 6'-0" HIGH CHAINLINK FENCE WITH PRIVACY SLATS W/ (2) DOUBLE 6'-0" WIDE SWING GATES
- 3'-0" THICK CONCRETE ISLAND W/ (2) #5 TOP AND BOTTOM. TOP OF ISLAND ELEVATION: 100'-0". PROVIDE 1" RADIUS AT EXPOSED CORNERS
- EXISTING FENCE AND GATES TO REMAIN
- DASHED LINE INDICATES ACCESSIBLE ROUTE

LEGEND:

- LANDSCAPED AREA: SEE LANDSCAPE PLAN
- EXISTING ASPHALT TO REMAIN. THIS AREA TO REMAIN CLEAR DURING CONSTRUCTION. THIS AREA SHALL NOT BE USED FOR CONSTRUCTION STAGING
- ASPHALT PAVING: SEE CIVIL DRAWINGS
- PHASE TWO BOUNDARY
- ACCESSIBLE ROUTE

CONSTRUCTION DOCUMENTS

DLD - OGDEN  
SOUTH OGDEN, UTAH

JRCA ARCHITECTS  
577 South 200 East  
Salt Lake City, Utah 84111  
(801) 533-2100 fax: 533-2101 jrcaesign.com

DATE/REVISION	PROJECT #
11-24-2010	10019
12-08-10 2	CODE REVIEW COMMENTS

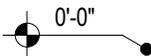
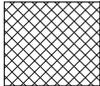
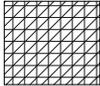
ARCHITECTURAL SITE PLAN AS101

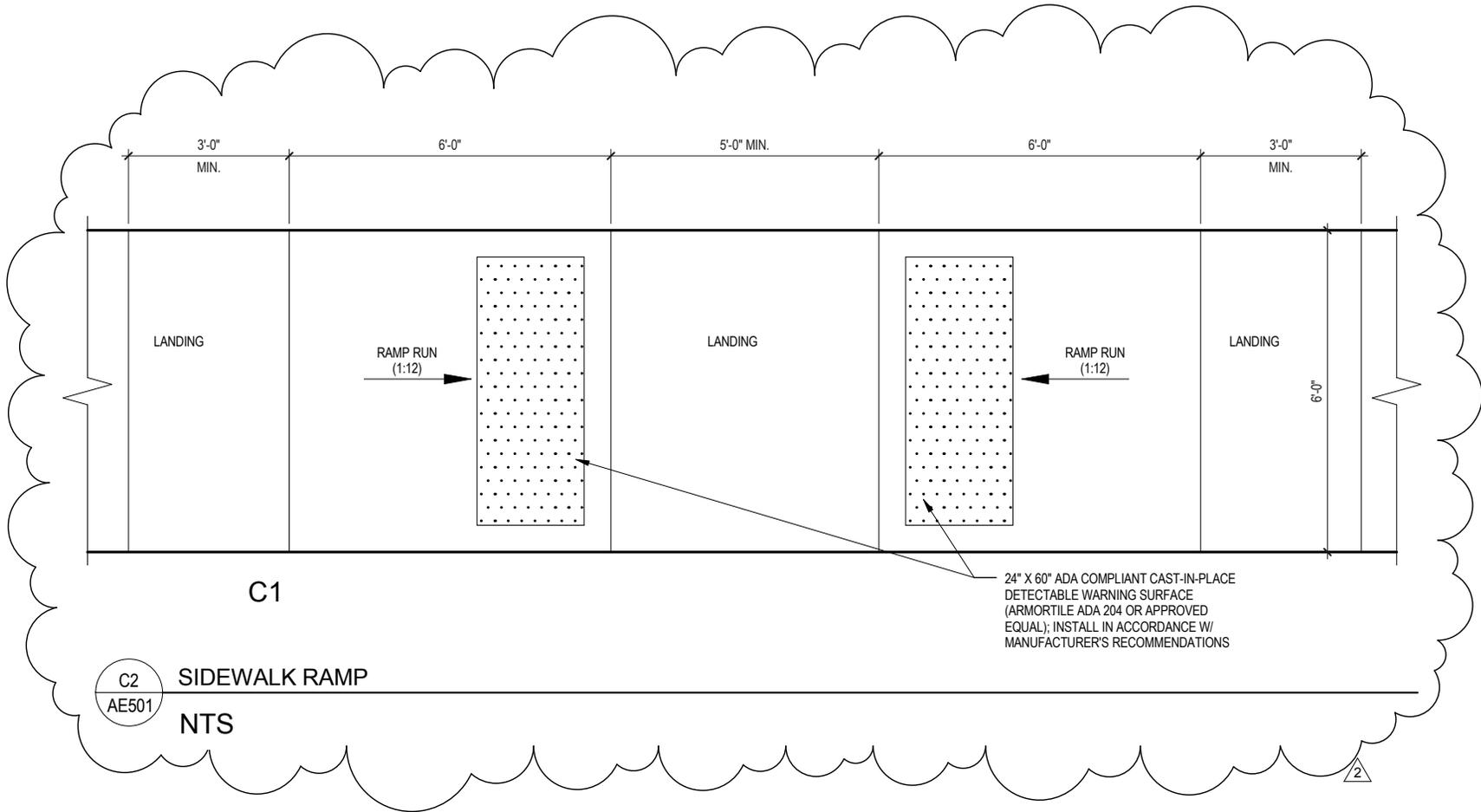
ARCHITECTURAL SITE PLAN  
SCALE 1" = 30'-0"

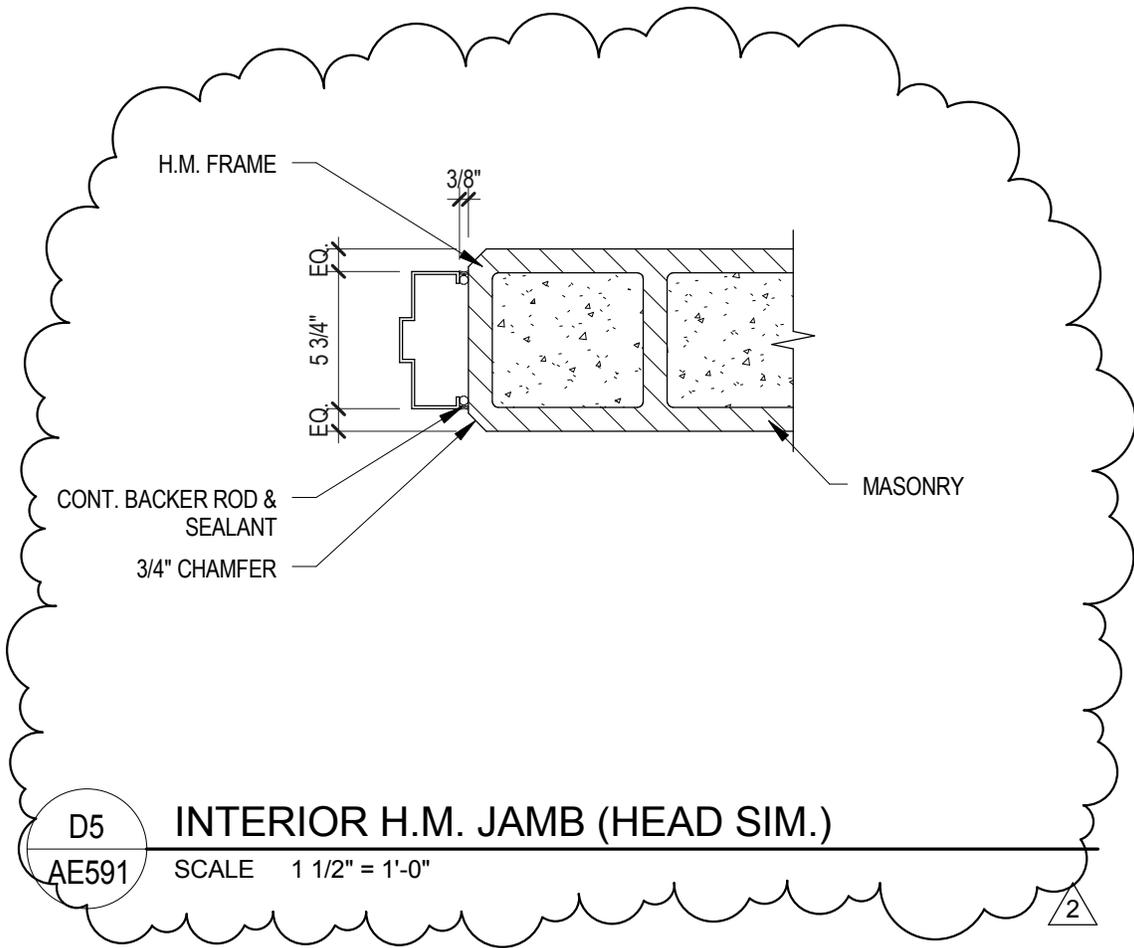


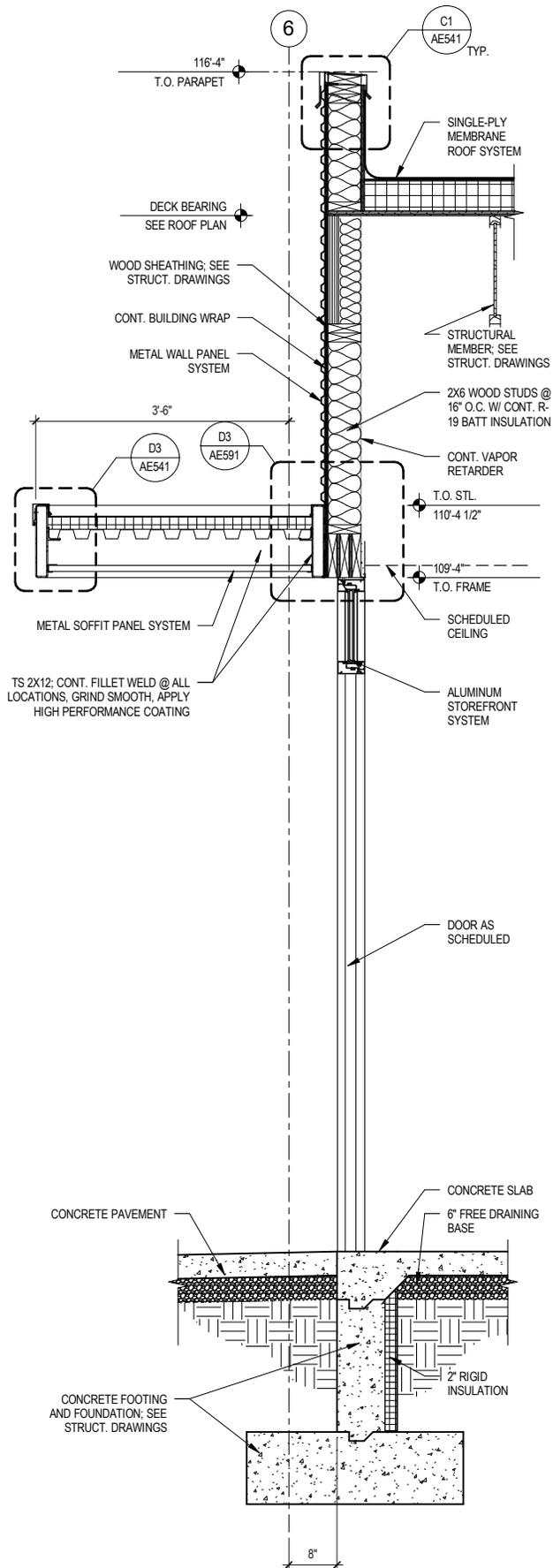
## LEGEND:

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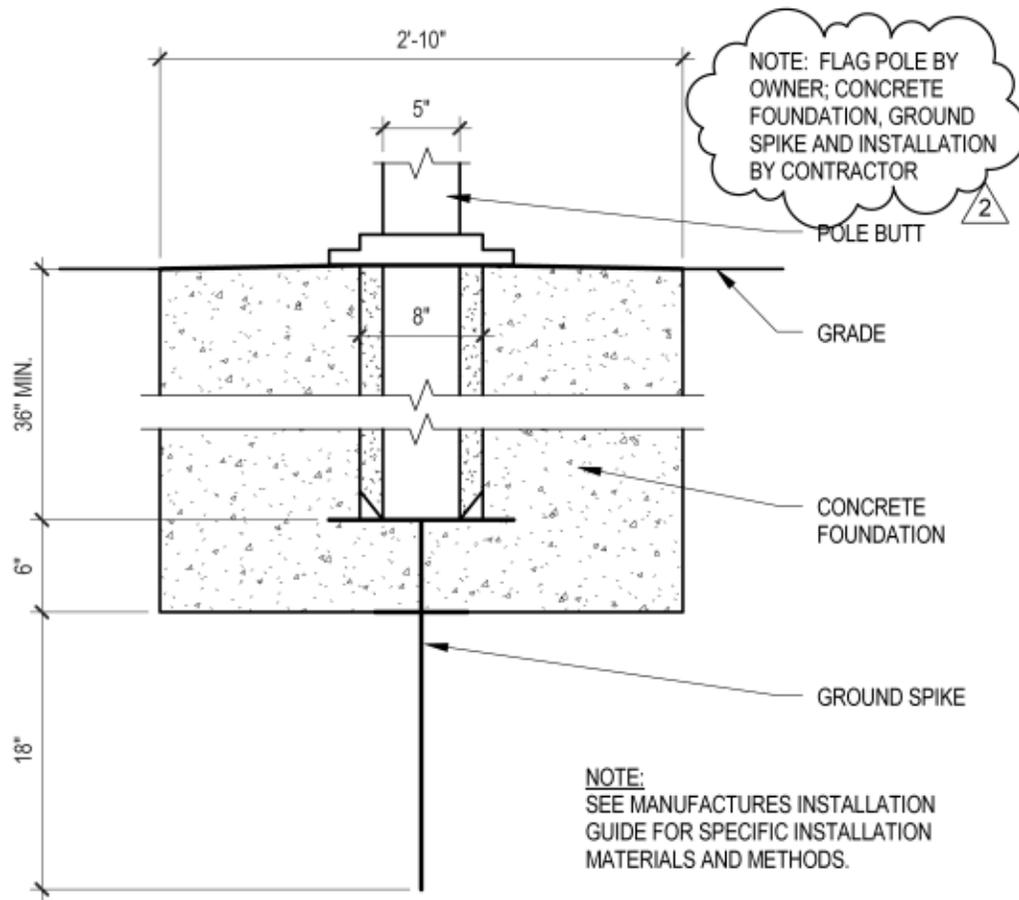
○ R.D.	PRIMARY ROOF DRAIN; SEE DETAIL D2/AE541
● O.D.	OVERFLOW DRAIN; SEE DETAIL D2/AE541
	DECK BEARING ELEVATION
	SINGLE-PLY ROOF MEMBRANE SYSTEM OVER TAPERED INSULATION SLOPED AT 1/4" PER FT. OVER 5 1/2" RIGID INSULATION; ROOF DECK IS SLOPED
	SINGLE-PLY ROOF MEMBRANE SYSTEM OVER 5 1/2" RIGID INSULATION; ROOF DECK IS SLOPED
	SINGLE-PLY MEMBRANE ROOF SYSTEM OVER TAPERED RIGID INSULATION SLOPED TO DRAIN @ 1/4" PER FOOT OVER 4" RIGID INSULATION
	30"x36" ROOF HATCH, SEE DETAIL D5/AE541 & C5/AE541







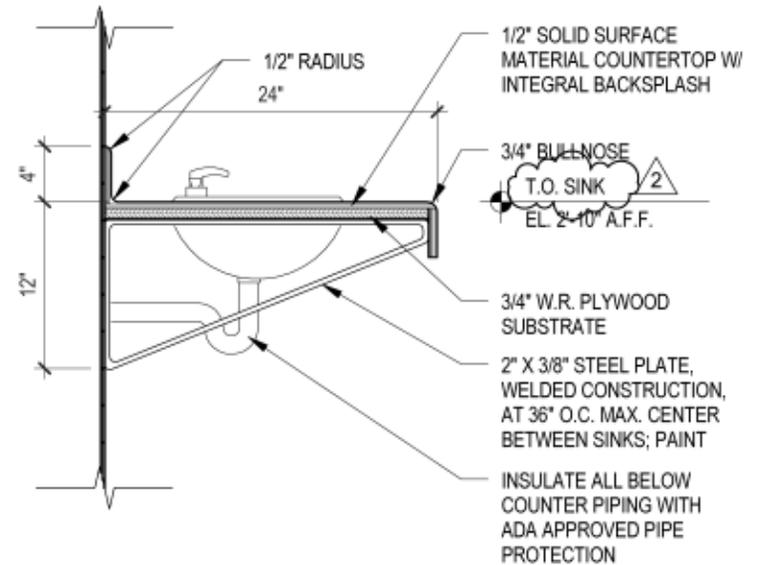
A4 WALL SECTION  
 AE355 SCALE 1" = N.T.S.



A3  
AE501

**FLAGPOLE BASE**

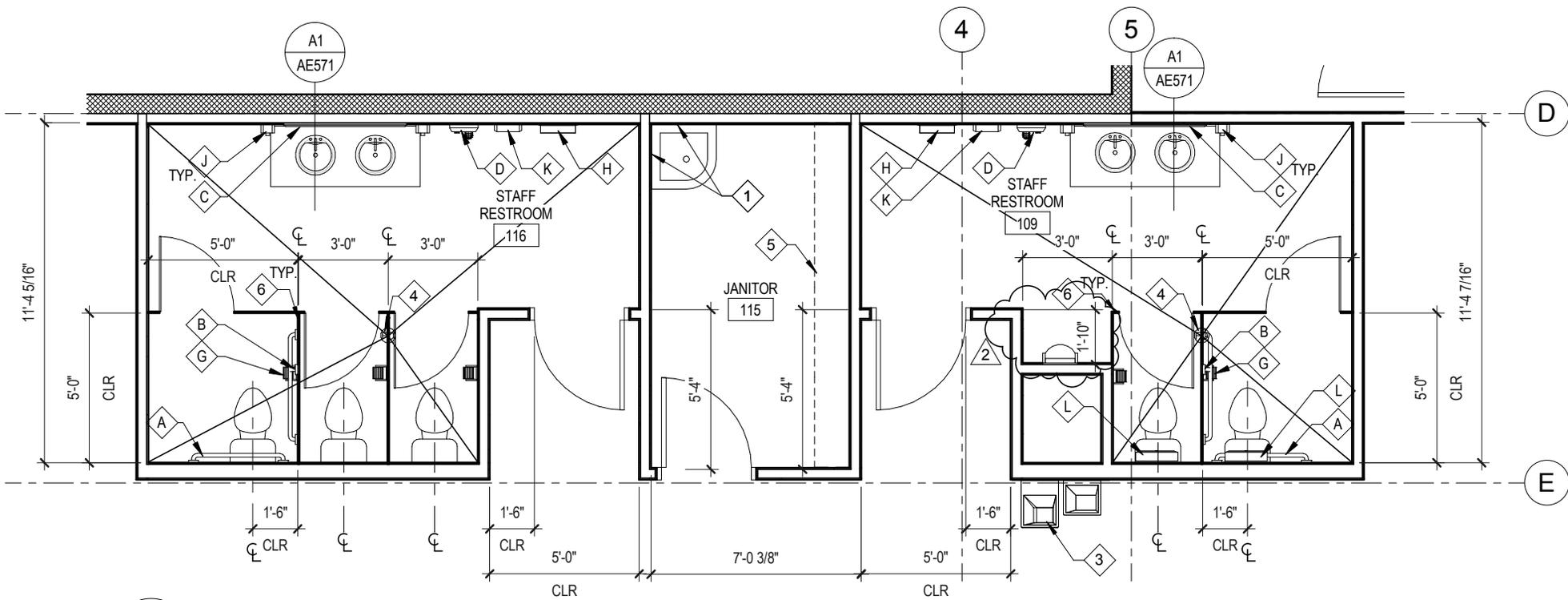
SCALE 1" = 1'-0"



A1  
AE571

**LAVATORY SECTION**

SCALE 1" = 1'-0"



**A3**  
**ENLARGED RESTROOMS PLAN**  
 AE401 SCALE N.T.S.

OFFICE BUILDING  
FE 4728.75

Z:\BGI\102040-102998\102100-102198\102103 JRC\OLD SO\GDEN\102103 BASE.DWG

CONNECT NEW 10"Ø ROOF DRAIN TO 6" BLDG ROOF DRAIN, INV 4725.75. COORDINATE W/ PLUMBING PLANS.

CONNECT NEW WATER SERVICE TO BUILDING WATER LINE, INSTALL 3"X2-1/2" REDUCER COORDINATE W/ PLUMBING PLANS.

INSTALL 6"Ø AWWA C-900 FIRE LINE TO EXISTING 8"Ø WATER LINE, INSTALL VALVE. COORDINATE W/ PLUMBING PLANS.

CONNECT NEW GAS SERVICE TO GAS LINE, INSTALL GAS METER. COORDINATE ALL WORK W/ QUE

INSTALL 10"Ø HDPE ROOF DRAIN CONNECTOR, W/ ALL NECESSARY FITTINGS. GRADE TO DRAIN  
INSTALL 3"Ø HDPE ROOF DRAIN CONNECTOR, C W/ ALL NECESSARY FITTINGS. GRADE TO DRAIN

INSTALL 5FT X 5FT CATCH BASIN IN NEW CURB AND GUTTER, TBC 4727.47, INV 4720.60 42"Ø, INV 4722.60 10"Ø ROOF DRAIN COLLECTOR  
CONNECT NE BLDG ROOF DRAIN TO EXISTING 10"Ø ROOF DRAIN COLLECTOR  
COORDINATE

RELOCATE EXISTING FIRE HYDRANT W/ AUXILLIARY VALVE

INSTALL 156LF 42"Ø PERF HDPE STORM DRAIN CONDUIT IN COARSE GRAVEL DETENTION TRENCH, REFER TO DETAIL SHEET.

CONNECT NEW 4"Ø ROOF DRAIN TO BLDG ROOF DRAIN, INV 4725.75. COORDINATE W/ PLUMBING PLANS.

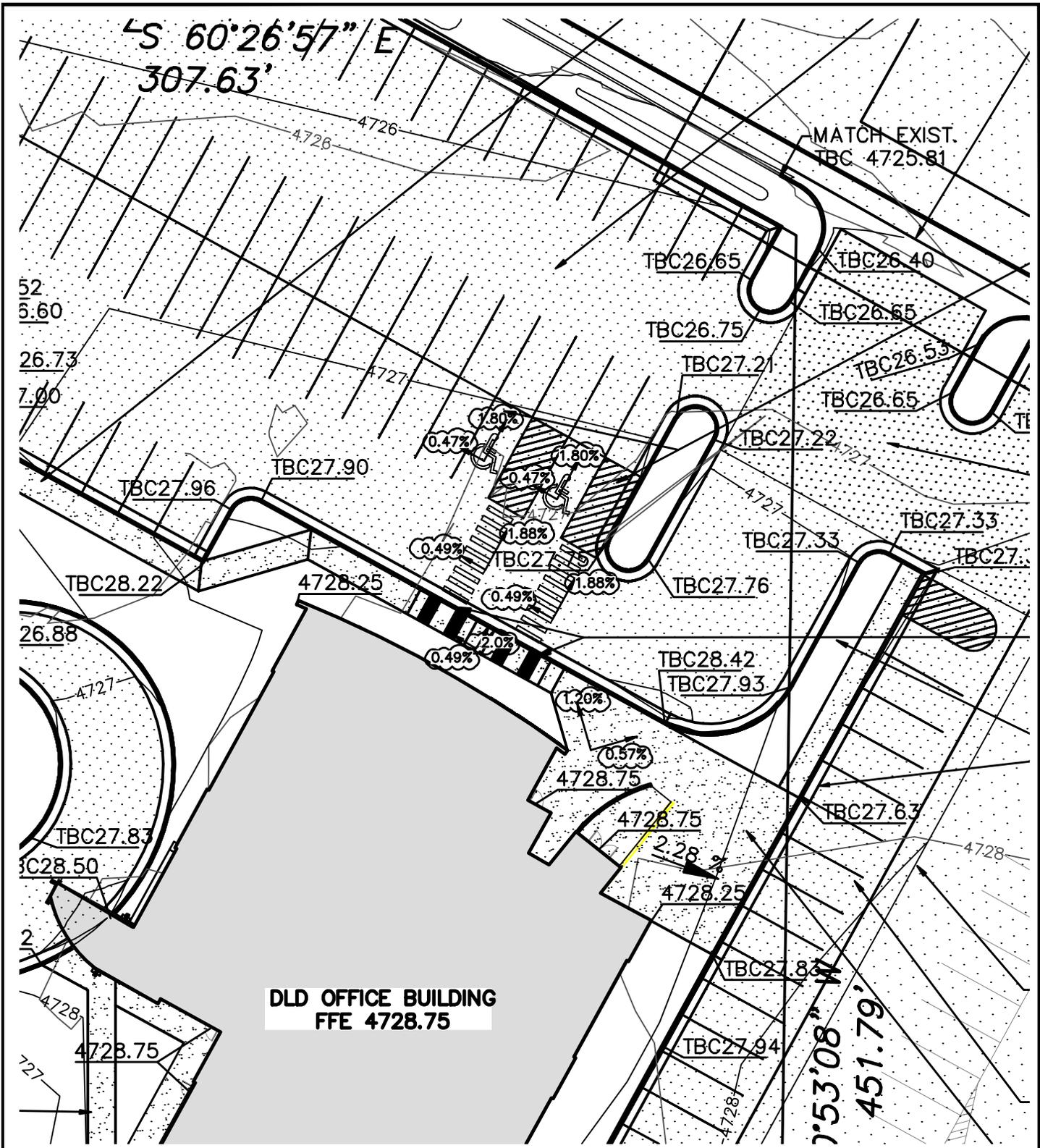
INSTALL 4"Ø HDPE ROOF DRAIN CONNECTOR, COM

# FIRE HYDRANT RELOCATION



**BUSH & GUGGELL, INC**  
Engineers - Surveyors - Planners  
525 South 300 East  
Salt Lake City, Utah 84111  
Phone (801) 364-1212 / Fax (801) 364-1225  
www.bushandguggell.com

**DLD SOUTH OGDEN**  
Drawn: GWB  
Date: 11/29/2010  
Scale: 1"=30'  
Job No: 102103 Sheet No: 1 OF 1



# ADA PATHWAY SLOPES



## BUSH & GUDGELL, INC

Engineers - Surveyors - Planners  
 525 South 300 East  
 Salt Lake City, Utah 84111  
 Phone (801) 364-1212 / Fax (801) 364-1225  
 www.bushandgudgell.com

## DLD SOUTH OGDEN

Drawn: **GWB**  
 Date: **11/23/2010**  
 Scale: **1"=0'**  
 Job No: **102103** Sheet No: **1 OF 1**





"Engineering Results"  
**BHB Consulting Engineers**  
A Professional Corporation

2766 South Main Street  
Salt Lake City, Utah 84115  
Phone: 801.355.5656  
Fax: 801.355.5950  
Email: bhb@bhbenigneers.com

DLD Ogden – Revision 2

South Ogden, Utah  
STEEL ROOF DECK

DRAWN BY: jbm  
DATE: 12/6/10  
JOB No. 10314

SHEET NUMBER:

**SK002**

REFERENCE:  
S001

## METAL DECKING

1. Steel deck shall comply with the latest requirements of the Steel Deck Institute.
2. All deck shall be 3-span continuous minimum. In areas where 3-span conditions are not possible, the contractor shall provide heavier gage deck as required to provide the equivalent loading of the deck under a three span condition.
3. Steel roof deck shall not be used to support loads from plumbing, HVAC ducts, light fixtures, architectural elements or equipment of any kind, unless specifically noted. Light weight suspended acoustical ceilings with a total weight of 50 lbs per attachment may be hung from roof deck. The hangers shall be staggered to distribute the loads over multiple deck flutes.
4. All deck supporting members shall be dry before welding.
5. Clinch seams before welding interlocking seams.

### Steel Roof Deck

- 2** a. Steel roof deck shall be 1.1/2" deep X 16 gage minimum painted (galvanized G90 at canopy), type "B" wide rib deck with interlocking side seams with the following properties:

$$\begin{array}{l} \text{Minimum S (in}^3/\text{ft)} = \frac{16 \text{ Gage}}{0.411} \\ \text{Minimum I (in}^4/\text{ft)} = 0.377 \end{array}$$

- b. Minimum allowable deck diaphragm shear values shall be 500 plf for a 7'-0" deck span.
- c. Weld steel roof deck to supporting framing members with 3/4" diameter puddle welds at the following spacings (Closer spacing may be used to develop minimum shear requirements.):
  - i. 6" o.c. to all supports perpendicular to deck corrugations (7 welds per 36" sheet).
  - ii. 6" o.c. to all supports parallel to deck corrugations.
- d. Hilti or Pneutek power driven fasteners are acceptable as an alternative to welds provided the connection meets the diaphragm shear capacity given above. For Hilti call 800-879-8000 extension 6337 for connection information comparison. For Pneutek, call 800-431-8665. If Hilti or Pneutek power driven fasteners are used, the contractor shall submit Hilti's / Pneutek calculations to the Architect/Engineer for review. Also if Hilti or Pneutek power driven fasteners are used, a Hilti / Pneutek representative shall be present before the decking is installed to make sure the installer is properly trained in using the equipment. The Hilti / Pneutek representative shall also make a site visit the day after deck has been started to be installed to verify the power driven fasteners are being installed correctly.
- e. Attach interlocking seams with 1 1/2" long top seam welds at 24" o.c. maximum or with Verco PunchLok System at 24" o.c. maximum, with ASC Delta Grip System at 24" o.c. maximum or with Wheeling Gator-Seismic Shearloc at 24" o.c maximum. Closer spacing may be used to develop minimum shear requirements. A standard button punch can **not** be used in place of Verco PunchLok, DeltaGrip or Gator-Seismic Shearloc.
- f. Provide a 2-inch minimum bearing and a 4-inch lap at the splice points.



"Engineering Results"  
**BHB Consulting Engineers**  
A Professional Corporation

2766 South Main Street  
Salt Lake City, Utah 84115  
Phone: 801.355.5656  
Fax: 801.355.5950  
Email: bhb@bhbenigneers.com

DLD Ogden – Revision 2

South Ogden, Utah  
STEEL ROOF DECK AT EAST CANOPY

DRAWN BY: jbm  
DATE: 12/6/10  
JOB No. 10314

SHEET NUMBER:

**SK003**

REFERENCE:  
S001

2

#### Steel Roof Deck at East Canopy

- a. Steel roof deck shall be 1.1/2" deep X 18 gage minimum painted (galvanized G90 at canopy), type "B" wide rib deck with interlocking side seams with the following properties:

18 Gage

$$\text{Minimum } S \text{ (in}^3/\text{ft)} = 0.322$$

$$\text{Minimum } I \text{ (in}^4/\text{ft)} = 0.302$$

- b. Minimum allowable deck diaphragm shear values shall be 500 plf for a 7'-0" deck span.
- c. Weld steel roof deck to supporting framing members with 3/4" diameter puddle welds at the following spacings (Closer spacing may be used to develop minimum shear requirements.):
- iii. 6" o.c. to all supports perpendicular to deck corrugations (7 welds per 36" sheet).
  - iv. 6" o.c. to all supports parallel to deck corrugations.
- d. Hilti or Pneutek power driven fasteners are acceptable as an alternative to welds provided the connection meets the diaphragm shear capacity given above. For Hilti call 800-879-8000 extension 6337 for connection information comparison. For Pneutek, call 800-431-8665. If Hilti or Pneutek power driven fasteners are used, the contractor shall submit Hilti's / Pneutek calculations to the Architect/Engineer for review. Also if Hilti or Pneutek power driven fasteners are used, a Hilti / Pneutek representative shall be present before the decking is installed to make sure the installer is properly trained in using the equipment. The Hilti / Pneutek representative shall also make a site visit the day after deck has been started to be installed to verify the power driven fasteners are being installed correctly.
- e. Attach interlocking seams with 1 1/2" long top seam welds at 24" o.c. maximum or with Verco PunchLok System at 24" o.c. maximum, with ASC Delta Grip System at 24" o.c. maximum or with Wheeling Gator-Seismic Shearloc at 24" o.c maximum. Closer spacing may be used to develop minimum shear requirements. A standard button punch can **not** be used in place of Verco PunchLok, DeltaGrip or Gator-Seismic Shearloc.
- g. Provide a 2-inch minimum bearing and a 4-inch lap at the splice points.



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 A Professional Corporation

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 Salt Lake City, Utah 84115  
 Phone: 801.355.5656  
 Fax: 801.355.5950  
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DLD Ogden - Revision 2

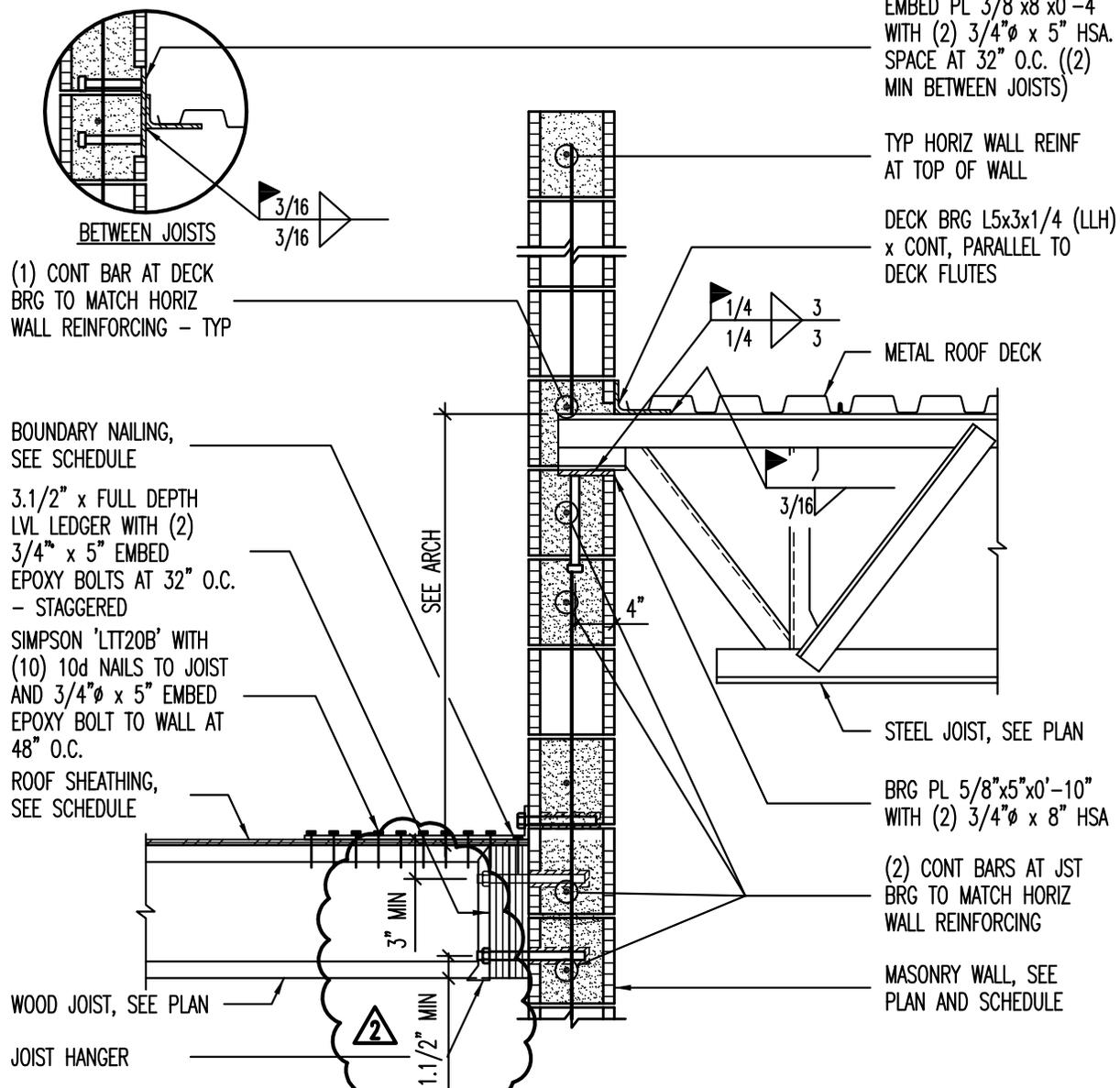
South Ogden, Utah  
 BOLT LOCATION DIMENSIONS

DRAWN BY: jbm  
 DATE: 12/6/10  
 JOB No. 10314

SHEET NUMBER:

**SK005**

REFERENCE:  
 9-13/S511



**9**  
 10314\_S-511

**TYPICAL 'LH' / WOOD JOIST BEARING AT 8" OR 10" MASONRY WALLS (STEEL ROOF ABOVE)**

NO SCALE

NOTE: THIS SAME REVISION OCCURS ON DETAILS 9-13/S511

Q:\2010\10314\Struct\revs\2110314\_SK005.dwg, BHB, 12/8/2010 11:17:17 AM, jbm



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 Phone: 801.355.5656  
 Fax: 801.355.5950  
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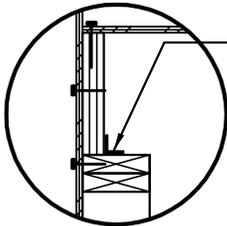
South Ogden, Utah  
 PARAPET STRAP CONNECTIONS

DRAWN BY: jbm  
 DATE: 12/6/10  
 JOB No. 10314

SHEET NUMBER:

**SK006**

REFERENCE:  
 10-15/S512



BETWEEN JOISTS

2x BOTTOM PLATE WITH  
 (2) 16d NAILS AT 24" O.C.

BOUNDARY NAILING,  
 SEE SCHEDULE

CONTINUOUS RIM BOARD

EDGE NAILING,  
 SEE SCHEDULE

JOIST WEB STIFFENER  
 EACH SIDE, TYP

BRICK VENEER, SEE  
 ARCH

SIMPSON 'A35'  
 AT 24" O.C.

SIMPSON 'H6' WITH (8)  
 8d NAILS EACH LEG AT  
 4" O.C.

ROOF SHEATHING,  
 SEE SCHEDULE

WOOD I-JOIST, SEE PLAN

JOIST WEB STIFFENER  
 EACH SIDE

WALL FINISH, SEE ARCH

WOOD STUD WALL, SEE  
 PLAN AND SCHEDULE

10

**JOIST BEARING AT WOOD STUD WALL WITH PARAPET**

NO SCALE

NOTE: THIS SAME REVISION OCCURS ON DETAILS 10-15/S512



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**BHB Consulting Engineers**  
 A Professional Corporation

2766 South Main Street  
 Salt Lake City, Utah 84115  
 Phone: 801.355.5656  
 Fax: 801.355.5950  
 Email: bhb@bhbengineers.com

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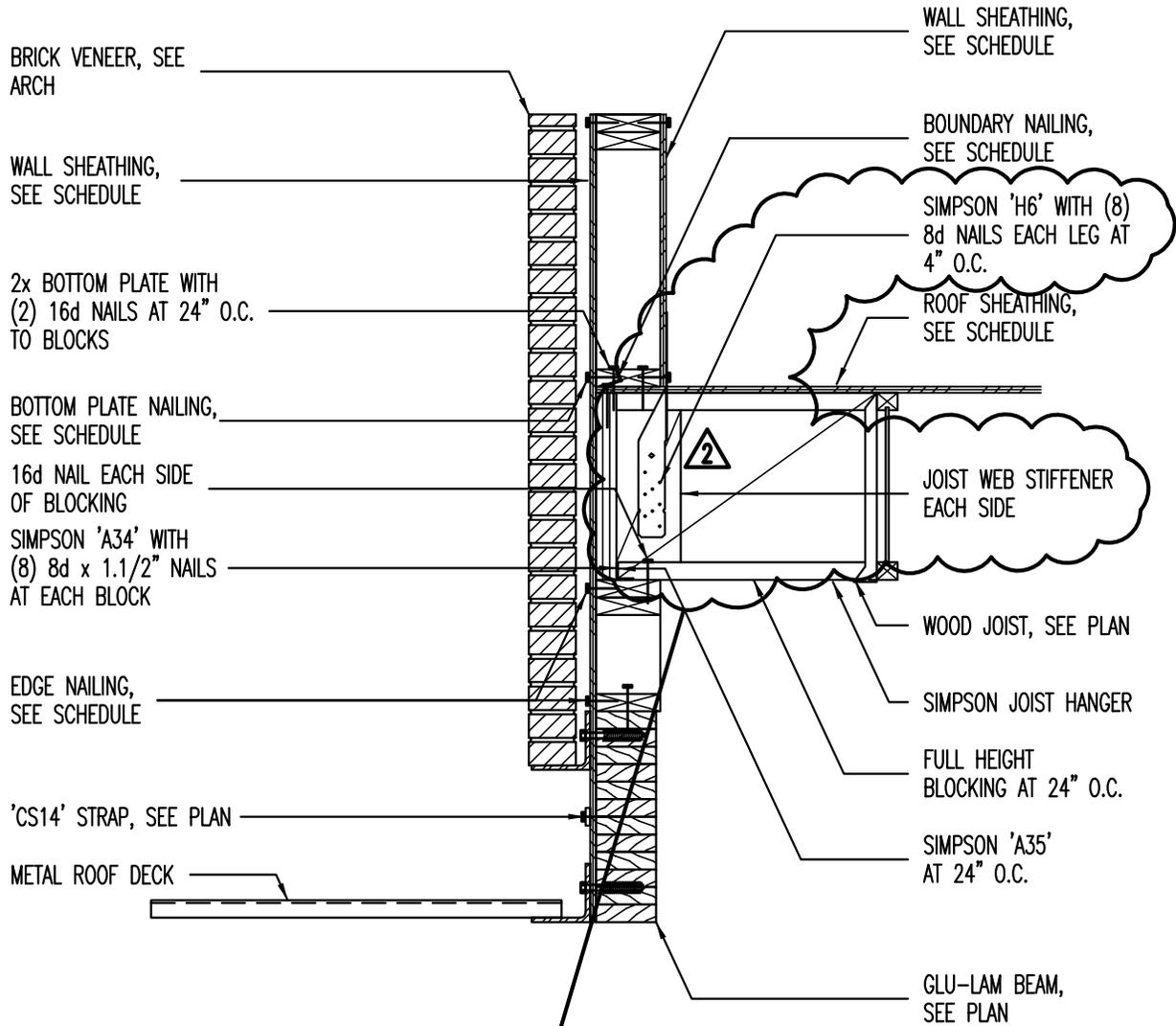
South Ogden, Utah  
 PARAPET STRAP CONNECTIONS

DRAWN BY: jbm  
 DATE: 12/6/10  
 JOB No. 10314

SHEET NUMBER:

**SK007**

REFERENCE:  
 6,9,10,11,13,15/S513



**6**  
 10314\_SK007

**METAL ROOF DECK AT GLU-LAM**

NO SCALE

**NOTE: THIS SAME REVISION OCCURS ON DETAILS 6,9,10,11,13,15/S513**

SECTION 282205  
ACCESS CONTROL SYSTEM

PART 1 – GENERAL

1.1 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.
- B. Division-26 Basic Materials and Methods sections apply to work specified in this section.

1.2 DESCRIPTION OF WORK

- A. The Access Control System is indicated by drawings and is hereby defined to include, but not be limited to equipment, raceway, outlets, coverplates, cabinets, grounding and miscellaneous items required for complete system.
- B. Refer to other Division-26 & 28 sections for requirements for raceways, trays, boxes and fittings, and supporting devices, and other sections, as applicable.

1.3 QUALITY ASSURANCE:

- A. MANUFACTURERS: Firms regularly engaged in manufacture of security system equipment and components of the types described here-in and whose products have been in satisfactory use in similar applications for not less than 5 years.
- B. INSTALLER: Qualified technicians: With at least 3 years of successful installation experience with security systems. Installer must be S2 factory certified.
  - 1. Approved Installers:
    - a. Simplex Grinell
    - b. Wasatch Electric Controls
    - c. Stone Security

1.4 SUBMITTALS:

- A. PRODUCT DATA: Submit manufacturer's data sheets including specifications, installation instructions, and general recommendation for each type of equipment specified.
- B. SHOP DRAWINGS: Submit dimensioned drawings and wiring layout for any changes in wiring from the layout on the drawings.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS:

- A. MANUFACTURER: Subject to compliance with the requirements, provide access control system of one of the following:
  - 1. S2 (No Equal)

- 2.2 GENERAL: Provide a complete and operable access control system, which utilizes door contact, request to exit devices, and card readers to maintain building security. Provide network node and

application blades as required to tie new access control system into existing DFCM S2 Network Controller over the Internet.

- A. Network Node. The S2 Network Node shall make and manage access control decisions with data provided by the existing DFCM Network Controller, and it shall manage the communication between the Network Controller and Application blades connected to the system's inputs, outputs, and readers. This modular design makes it possible, even during network downtime, for the system to continue to manage access control and store system activity logs. When network connectivity is re-established, the system activity logs are automatically re-integrated.
- B. Network Blades: Provide application blades as required.

### 2.3 ACCESS CONTROL SYSTEM

- A. Provide access control panel complete with the following items:
  - 1. Dual-Reader Interface Module.
    - a. Provide one module for every two doors.
- B. Provide the following field installed devices:
  - 1. Proximity Card Reader; Hid Corp ProxPro Plus.
  - 2. Provide 100 HID smart cards.
- C. Provide required to exit motion sensors as required.
- D. Wiring:
  - 1. Provide wiring for the access control system components as recommended by the manufacturer.
- E. Provide power supply panel complete with the following item:
  - 1. Battery 18AH 12VFC.
- F. Badge Design
  - a. The system shall incorporate a badge design module that is integral to the system source code with the ability to create and maintain badge designs. Features shall include the ability to support:
    - i. Complete badge design and layout tools.
    - ii. Chromakey
    - iii. Image import
    - iv. Ghosting
    - v. Signiture capture
    - vi. Barcode
    - vii. Smart chip support
- G. ID Printers
  - a. The system shall support any printer with industry standard and Microsoft certified Windows drivers. The system shall support:
    - i. Double-sided full color printing
    - ii. Edge to edge printing
    - iii. High speed printing
    - iv. Holographic overlays
    - v. In-line magnetic stripe encoding

## 2.4 SYSTEM REQUIREMENTS:

- A. The Network Node shall make and manage access control decisions with data provided by the Network Controller, and it shall manage the communication between the Controller and Application blades connected to the system's inputs, outputs, and readers. The Node shall be supplied with 12V DC at a minimum of 3 amps. The Node blade shall supply all Application blades in the node with power. Each Network Node shall support up to seven Application blades. Communications between the node and Network Controller shall be encrypted and authenticated (SHA-1). Each Network Node shall have the following capabilities:

1. Application blades	7
2. Access control readers	14
3. Access Levels	512
4. Portals	14
5. Portal Groups	64
6. Readers	14
7. Reader Groups	128
8. Supervised Inputs	56
9. Input Groups	64
10. Relay Outputs	56
11. Output Groups	64
12. Temperature Monitor Inputs	56
13. Elevators	14
14. Floors	52
15. Floor Groups	64
16. Credential storage	20,000
17. Activity Log records	27,000

- B. The Application blades shall interface with the Network Controller through the Network Node. The Application blades shall be blade-style circuit cards.

1. Access Control blade: shall support 2 readers (input devices such as keypads, RFID devices or Biometric readers), 4 supervised inputs and 4 relay outputs.
2. Supervised Input blade: shall support 8 supervised inputs. Supervised input connectors are 2-pin. The system shall support a wide variety of input supervision types including normally-open circuit and normally-closed circuits, and zero, one or two resistor configurations.
3. Relay Output blade: shall support 8 relay outputs. Relay output connectors are 3-pin. Both normally-open circuit and normally-closed circuit output devices are supported. The relay outputs shall support any output devices that operate on the following maximum electrical ratings: 30 Volts DC or AC, 2.5 Amps inductive or 5.0 Amps non-inductive.

- C. The MicroNode shall combine a Network Node and an Application blade capability in one enclosure. The Access Control blade portion of the MicroNode shall support two readers, one temperature input, four supervised inputs and four relay outputs. A MicroNode shall utilize 12VDC power at 3 Amps or Power over Ethernet (PoE) at the 802.3AF standard and be capable of supplying direct power to 2 readers, 2 motion REXs, and 2 door strikes.

## 2.5: HARDWARE PACKAGING REQUIREMENTS

- A. S2 NetBox Extreme Network Controller wall-mount units shall be housed in an enclosure with dimensions of: 12.5" (317.5 mm) H x 10.3" (261.6 mm) W x 3.5" (89 mm) D.
- B. The S2 MicroNode enclosure shall support a solid-state Node, its Access Control blade, and one temperature point.
  - 1. It shall be a wall-mount enclosure with dimensions of 7" (178 mm) H x 7" (178 mm) W x 3.5" (89 mm) D.
  - 2. It shall be possible to power the MicroNode with a 12VDC power source at no less than 2 Amps, or with PoE that conforms to the IEEE 802.3af standard. This provides nominal 48VDC at a maximum of 400mA.
- D. The solid-state NetBox Controllers shall be powered by either 100-240V AC at 50-60 Hz, or by 12VDC at 3 amps. Power must come from a separate circuit with an isolated earth ground. If AC power is supplied it must be connected to the internal power supply. If DC power is supplied the internal power supply shall be bypassed. It shall be possible to backup power supplied to the S2 system with an Uninterruptible Power Supply (UPS). It shall also be possible to place within the wall-mount enclosure an SLA battery backup sufficient for an orderly shutdown in case of external power loss.
- E. Enterprise and Enterprise Ultra controllers shall be powered by 100-240V AC at 50-60 Hz. Power must come from a separate circuit with an isolated earth ground and it must be connected to the internal power supply. It shall be possible to backup power supplied to the rack-mounted Enterprise and Enterprise Ultra controllers with an Uninterruptible Power Supply (UPS).

**2.01 S2 NETWORK CONTROLLER, NODE, and APPLICATION BLADE SPECIFICATIONS**

- A. S2 Solid-state Network Controller: All Application blades shall receive 12VDC power via the ribbon cable bus directly from the Node on the controller. The solid-state NetBox Controllers shall be powered by either 100-240V AC at 50-60 Hz, or by 12VDC at 3 amps.
  - 1. Network Nodes Supported: 32
  - 2. RAM: 128 MB
  - 3. Processor: Intel®IXP425
  - 4. Flash ROM: 48 MB
  - 5. Compact Flash Memory: 2 GB
  - 6. Operating Temperature 32°to 122° F (0° to 50° C)
- B. S2 NetBox Extreme Network Controller
  - 1. Network Nodes Supported: 64
  - 2. Processor: Intel® Atom™ 1.6 GHz
  - 3. RAM: 1 GB
  - 4. Solid-State Disk Drive: 8 GB, 64 GB optional.
  - 5. Ethernet Ports: 1 (10/100)
  - 6. Operating Temperature: 32° to 104° F (0° to 40° C)
  - 7. Humidity: 10 to 80 % relative humidity
  - 8. Power Supply: 10 W, 85 to 260 VAC
  - 9. MTBF: 300,000 hrs
  - 10. Weight: Wall-mount: 6.7 lbs. (3.05 kg)  
Rack-mount: 7.5 lbs. (3.4 kg)
- C. S2 Enterprise Network Controller
  - 1. Network Nodes Supported: 64

- |     |                        |                              |
|-----|------------------------|------------------------------|
| 2.  | Processor:             | Intel® Celeron® 2.0 GHz      |
| 3.  | RAM:                   | 1 GB                         |
| 4.  | IDE Hard Disk Drive:   | 80 GB                        |
| 5.  | Ethernet Ports:        | 2 (10/100)                   |
| 6.  | Operating Temperature: | 32° to 104° F (0° to 40° C)  |
| 7.  | Humidity:              | 10 to 80 % relative humidity |
| 8.  | Power Supply:          | 200 W, 100 to 200 VAC        |
| 9.  | MTBF:                  | 52,560 hrs (calculated)      |
| 10. | Weight:                | 16 lbs. (7.28 kg)            |
- D. S2 Enterprise Ultra Network Controller
- |     |                          |                                        |
|-----|--------------------------|----------------------------------------|
| 1.  | Network Nodes Supported: | 256                                    |
| 2.  | Processor:               | Intel® Pentium® 4 @ 2.8 GHz            |
| 3.  | RAM:                     | 2 GB, 4GB maximum.                     |
| 4.  | IDE Hard Disk Drive:     | 2 x 80 GB SATA in RAID-1 configuration |
| 5.  | CDRW/DVD-R:              | Internal                               |
| 6.  | Ethernet Ports:          | 2 (10/100)                             |
| 7.  | Operating Temperature:   | 32° to 104° F (0° to 40° C)            |
| 8.  | Humidity:                | 10 to 80 % relative humidity           |
| 9.  | Power Supply:            | 300 W, 100 to 200 VAC                  |
| 10. | MTBF:                    | 52,560 hrs (calculated)                |
| 11. | Weight:                  | 30 lbs. (13.57 kg)                     |
- E. S2 MicroNode: Each MicroNode shall function as a node and as an access control blade. In addition each MicroNode shall support one temperature input. The MicroNode may be supplied with 12VDC at 2 amps. With a 12VDC 2A power supply the total power available for all external output is 1100mA (13.2 watts). Alternatively, it shall also be possible to power the MicroNode by PoE that conforms to the IEEE 802.3af standard. This provides nominal 48 VDC at a maximum of 400mA. With PoE as the power source the total power available for all external 12V output is 500mA (6 watts).
- |    |                                            |                                              |
|----|--------------------------------------------|----------------------------------------------|
| 1. | 7-pin reader connectors                    | 2                                            |
| 2. | Maximum reader wire length (shielded)      | 500 feet (152 m) (18 AWG twisted, shielded)  |
| 3. | 2-pin supervised input connectors          | 4                                            |
| 4. | Maximum input wire length (shielded)       | 2000 feet (610 m) (22 AWG twisted, shielded) |
| 5. | 3-pin relay output connectors              | 4                                            |
| 6. | Maximum output wire length                 | Determined by the peripheral device          |
| 7. | 2-pin analog temperature inputs            | 1                                            |
| 8. | Maximum temperature wire length (shielded) | 1000 feet (305 m) (18 AWG twisted, shielded) |
- F. S2 Access Control blade: The access control blade shall receive power via the ribbon cable bus directly from the Node Blade. The access blade shall supply up to 400 milliamps of power to one reader or 200 milliamps of power to each of two readers.
- |    |                                       |                                             |
|----|---------------------------------------|---------------------------------------------|
| 1. | 7-pin reader connectors               | 2                                           |
| 2. | Maximum reader wire length (shielded) | 500 feet (152 m) (18 AWG twisted, shielded) |

- |    |                                                                                                                                                                                                                                                                                                                                                                                      |                                                 |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 3. | Power available to readers                                                                                                                                                                                                                                                                                                                                                           | 400 milliamps                                   |
| 4. | 2-pin supervised input connectors                                                                                                                                                                                                                                                                                                                                                    | 4                                               |
| 5. | Maximum input wire length<br>(shielded)                                                                                                                                                                                                                                                                                                                                              | 2000 feet (610 m) (22 AWG twisted,<br>shielded) |
| 6. | 3-pin relay output connectors                                                                                                                                                                                                                                                                                                                                                        | 4                                               |
| 7. | Maximum output wire length                                                                                                                                                                                                                                                                                                                                                           | Determined by the peripheral device             |
| G. | S2 Input blade: The input blade shall receive power via the ribbon cable bus directly from the Node Blade. It shall support a wide variety of input supervision types including normally-open circuit and normally-closed circuits, and zero, one or two resistor configurations.                                                                                                    |                                                 |
| 1. | 2-pin supervised input connectors                                                                                                                                                                                                                                                                                                                                                    | 8                                               |
| 2. | Maximum input wire length<br>(shielded)                                                                                                                                                                                                                                                                                                                                              | 2000 feet (610 m) (22 AWG twisted,<br>shielded) |
| H. | S2 Output blade: The output blade shall receive power via the ribbon cable bus directly from the Node Blade. Both normally-open circuit and normally-closed circuit output devices shall be supported. The relay outputs shall support any output devices that operate on the following maximum electrical ratings: 30 Volts DC or AC, 2.5 Amps inductive or 5.0 Amps non-inductive. |                                                 |
| 1. | 3-pin relay output connectors                                                                                                                                                                                                                                                                                                                                                        | 8                                               |
| 2. | Maximum output wire length<br>(shielded)                                                                                                                                                                                                                                                                                                                                             | 2000 feet (610 m) (22 AWG twisted,<br>shielded) |

## PART 3 – EXECUTION

### 3.1 INSTALLATION OF ACCESS CONTROL SYSTEM

- A. GENERAL: Access Control System as indicated, in accordance with equipment manufacturers written instructions, and with recognized industry practices, to ensure that system equipment complies with requirements. Comply with requirements of NEC, and applicable portions of NECA's "Standards of Installation" practices.
- B. Coordinate all equipment locations and mounting details with other trades and suppliers.
- C. GROUNDING: Provide grounding connections sufficiently tight to assure permanent and effective ground.
- D. TESTING: Upon completion of installation of system and after energized, demonstrate system compliance with intent.
- E. WIRING: Install all wiring in conduit raceway. Wire all components of the system in accordance with factory recommendations. All final connections shall be made by a qualified technician, familiar with the manufacturer's equipment.
- F. WARRANTY: Provide warranty complying with Division 16001.

### 3.2 AS BUILT DRAWINGS:

- A. A complete set of CAD "AS-BUILT" Drawings showing installed wiring, color coding, specific interconnections between all equipment, and internal wiring of the equipment shall be delivered to the owner upon completion of the system.

- B. The disk containing the files shall be supplied to the owner. These disks shall include all information required to allow the district to change the security program themselves. These computer disks shall contain a minimum of the following:
1. CAD drawing files of building security map.
  2. CAD drawing files of AS BUILT security components and point to point connections.
  3. General configuration programming.
  4. Job specific configuration programming.
  5. Tutorial file on complete programming of security system.

3.3 OPERATING AND MAINTENANCE MANUALS:

- A. Operating and maintenance manuals shall be submitted prior to testing of the system. Manuals shall include all service, installation, and programming information.

3.4 TRAINING:

1. Provide four (4) hours of training on the operation and installation of the access control system, at the job site, at no cost to the owner.

END OF SECTION 282205

1

 P	DURESS PUSHBUTTON	+4'-0"	
 D	SECURITY SYSTEM DOOR SWITCH	DOOR JAMB	
 A	SECURITY SYSTEM KEYED ACCESS SWITCH	+4'-0"	2.
 M	SECURITY MOTION DETECTOR		MOUNT AS PER. MAN
 PV	PROJECTOR, POLE VAULT	CEILING	
 CR	ACCESS CONTROL CARD READER	+4'-0"	2.
	CLOSED CIRCUIT TELEVISION CAMERA	AS NOTED	
 ML	MEDIA LINK CONTROLLER	+48"	
	SPEAKERS	CEILING	
 GEN	GENERATOR ANNUNCIATOR	+48"	
 (AVD)	AUDIO VIDEO DATA OUTLET	+16"	

**BNA**  
CONSULTING  
SALT LAKE ST. GEORGE

635 South State Street  
Salt Lake City, Utah 84111  
P: 801.532.2196  
F: 801.532.2305  
www.bnaconsulting.com

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SOUTH OGDEN, UTAH

1

ADDENDUM #1

SCALE

N.T.S.

DRAWN

BNA

JOB NUMBER

101068A

REF. SHEET NUMBER

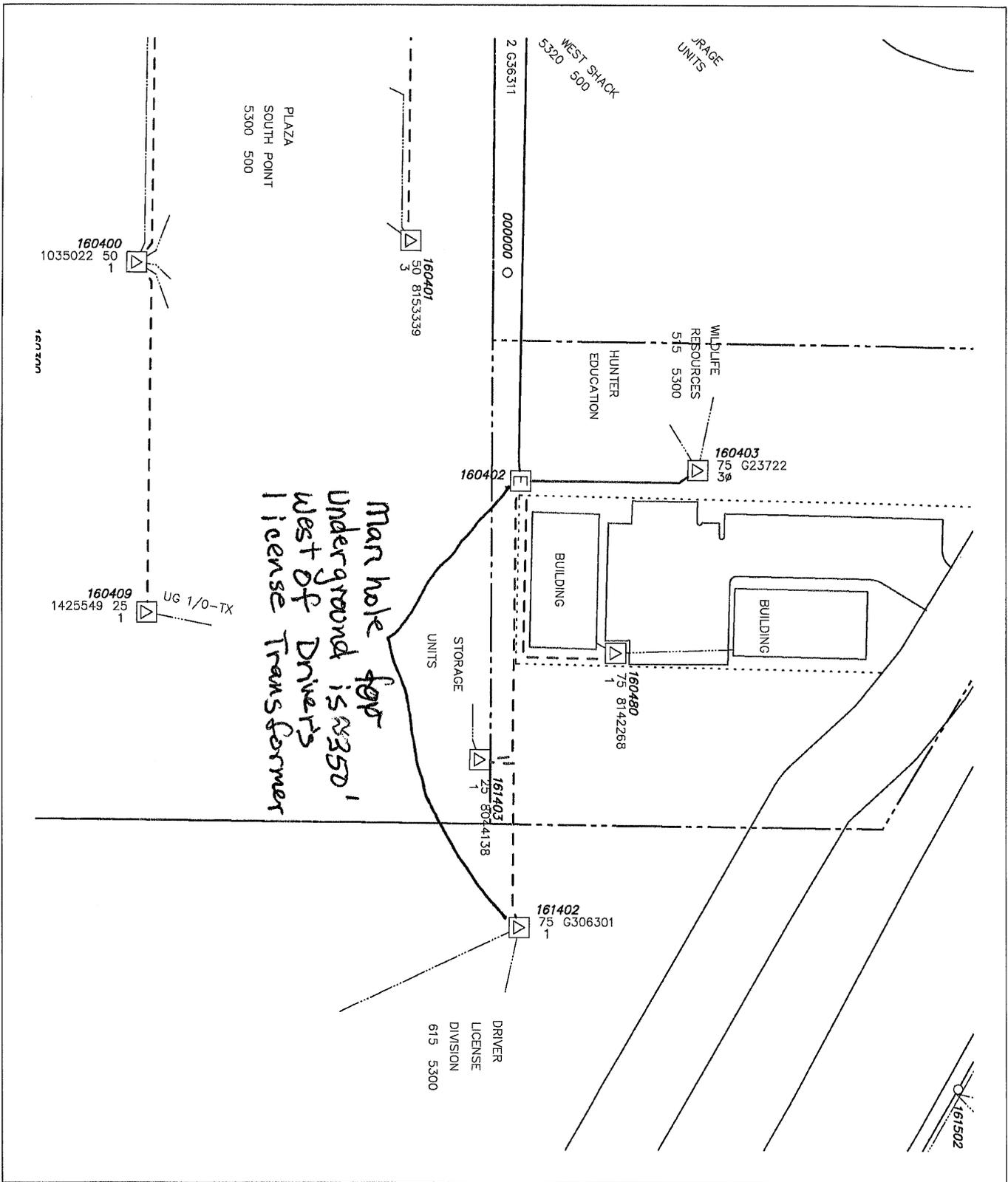
E001

DATE:

12/09/2010

SHEET NUMBER

ADD-01



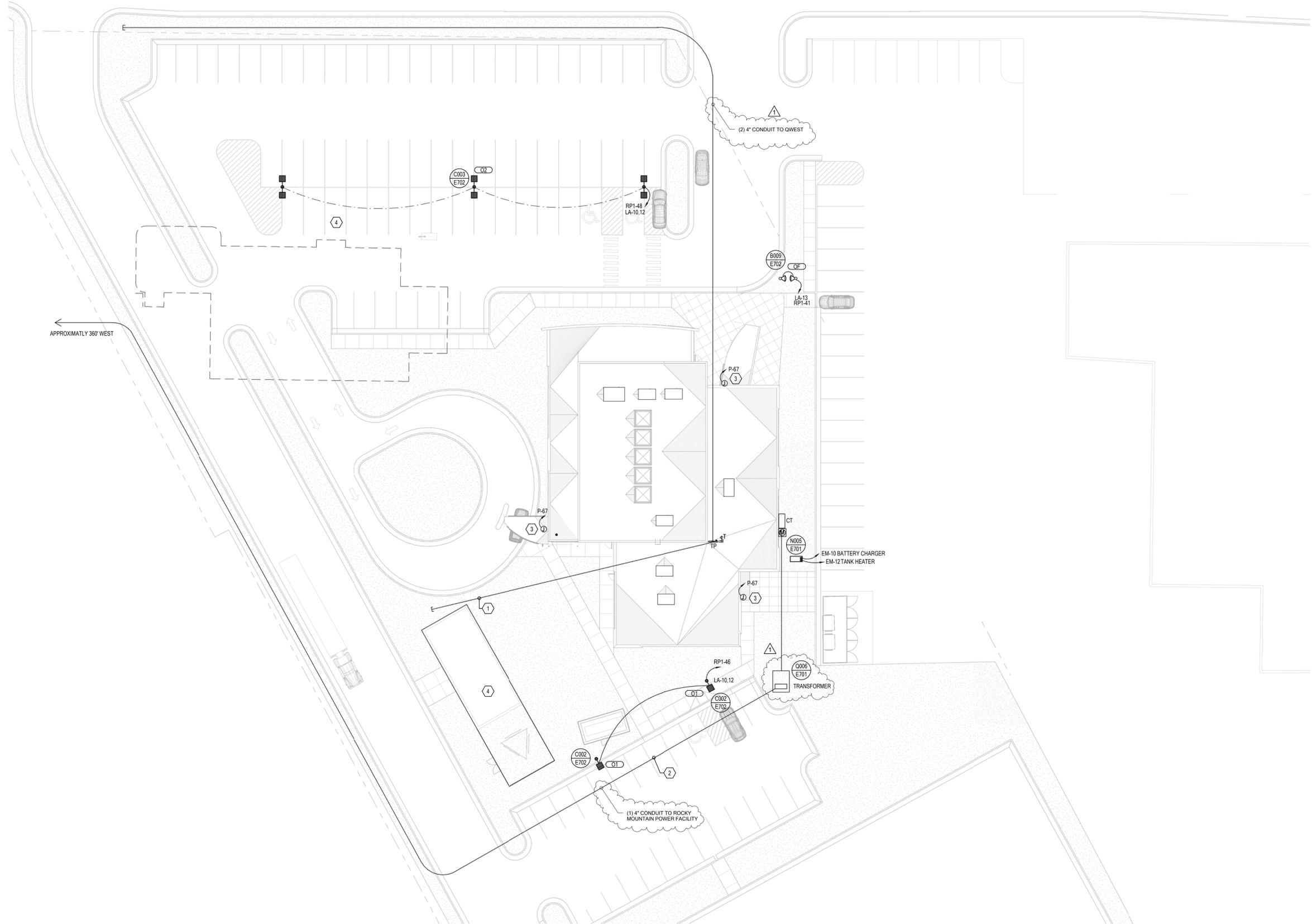
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CC#	WO# / REQ#	Map String	Job Comp Date	
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			Posted <input type="checkbox"/>	Scale
				12251
				11/11/10
				1=100'

11461 KEY\_SOUTH OGDEN 205001.0

1 OF 1

**SHEET KEYNOTES**

- ① PROVIDE (4) 4" CONDUITS FROM NORTHEAST CORNER OF NEW COMMUNICATIONS ROOM TO EXISTING RADIO TOWER BUILDING.
- ② PROVIDE 4" CONDUIT TO EXISTING SECTIONALIZER COORDINATE EXACT LOCATION WITH ROCKY MOUNTAIN POWER.
- ③ PROVIDE A 2' STAR PATTERN OF HEAT TAPE ON ROOF OF CANOPY AND A LOOP OF HEAT TAPE DOWN THE DOWN SPOUT.
- ④ LOCATE AND PROTECT EXISTING POWER AND TELEPHONE UTILITIES TO RADIO BUILDING WHICH REMAINS IN SERVICE AND EXISTING DRIVERS LICENSE BUILDING WHICH REMAINS IN SERVICE UNTIL NEW BUILDING IS COMPLETE.



← APPROXIMATELY 360' WEST

**ELECTRICAL SITE PLAN**  
SCALE = 1" = 20'-0"

**DLD OGDEN**

SOUTH OGDEN, UTAH

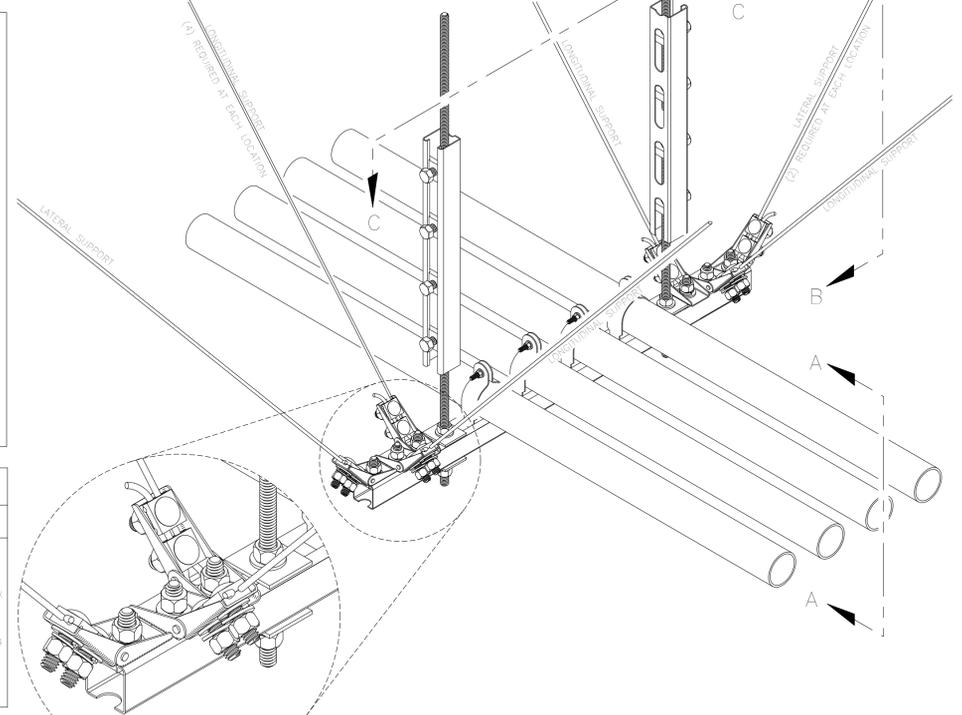
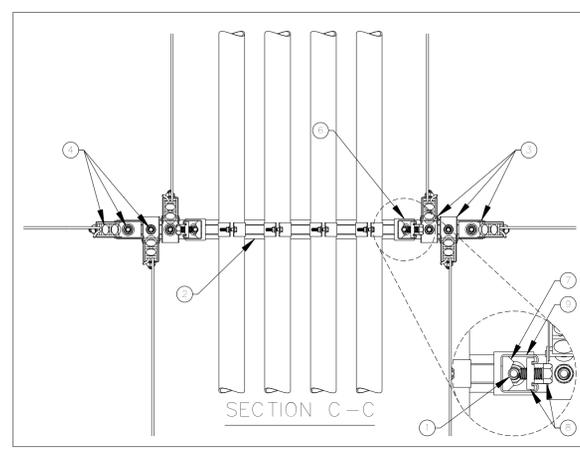
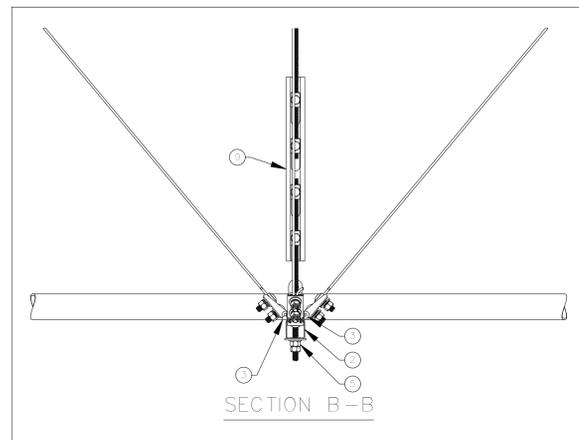
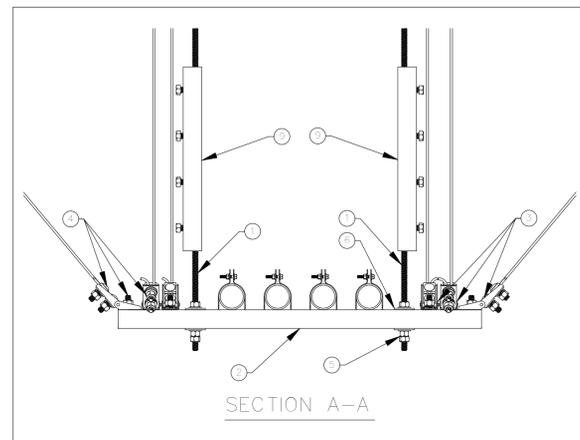


ARCHITECTS  
577 South 200 East  
Salt Lake City, Utah 84111  
(801) 533-2100 fax: 533-2101 jrcadesign.com

DATE/REVISION	PROJECT #
12-08-10	10019
12-09-10	ADDENDUM

**ELECTRICAL SITE PLAN**

**E101**



PARTS LIST			
ITEM No.	DESCRIPTION	SIZE	CATALOG No. UNISTRUT
1	THREADED ROD (MIN. MODULUS OF ELASTICITY = 29x10 <sup>6</sup> LBS/IN)	SEE SCHEDULE FOR DIAMETER	-
2	METAL FRAMING CHANNEL	1-5/8"x1-5/8"	P1000
3	CABLE BRACE SWIVEL ANCHOR	SEE TABLE	MASON IND. SCR-X
4	HEX HEAD CAP SCREW WITH SPRING NUT	1/2"-13"	HHCS/P1010
5	FLAT WASHER WITH HEX NUT	3/8"	-
6	FLAT PLATE FITTING WITH HEX NUT	3/8" OR 1/2" AS REQ'D	P1063 OR P1064
7	CRADLE	-	P2485
8	HEX HEAD CAP SCREW WITH NUT	3/8"x1"	HHCS/P2008
9	SLOTTED METAL FRAMING CHANNEL	1-5/8"x1-5/8"	P1000T

**NOTES:**

- PROVIDE LONGITUDINAL AND LATERAL SUPPORT SPACING IN ACCORDANCE WITH THE FOLLOWING:

MAX CONDUIT/WIRE WT.	VERTICAL SUPPORT SPACING	LATERAL SUPPORT SPACING	LONGITUDINAL SUPPORT SPACING	ROD DIAMETER	CONTROL BUCKLING LENGTH (2)	CABLE BRACE SWIVEL ANCHOR & CABLE
POUNDS/FOOT	FEET	FEET	FEET	INCHES	INCHES	
15	10	20	20	.375	18	SCR2
30	10	10	20	.375	12	SCR2
45	10	10	20	.375	10	SCR3
60	10	10	20	.500	16	SCR3

- PROVIDE METAL FRAMING CHANNEL ON ALL VERTICAL SUPPORTS WHEN ROD LENGTH EXCEEDS SPECIFIED VALUES. STIFFENER CLIP SPACING SHALL BE AS INDICATED.
- PROVIDE LATERAL SUPPORTS AT SPACING INDICATED ON BOTH SIDES OF CONDUIT RACK.

**GENERAL NOTES**

- COORDINATE ROUTING OF CONDUIT RACKS AND SUPPORT SYSTEMS WITH DIVISION 15.

FEEDER WEIGHTS (COPPER CONDUCTORS)			
TYPE	AMPERE RATING	W/RIGID (PER 10')	W/EMT (PER 10')
20	30	12.61	9.21
20	30	13.00	9.60
20	30	13.39	9.99
28	40	13.42	10.02
38	40	14.08	10.68
48	40	14.74	11.34
58	55	14.58	10.98
68	55	15.36	11.96
78	55	21.29	16.49
88	70	16.09	12.69
98	70	22.59	17.79
108	70	29.82	22.62
118	95	31.47	24.27
128	95	33.82	26.62
138	110	34.07	26.87
148	110	42.46	33.26
158	110	44.24	35.04
168	125	55.43	43.03
178	125	54.13	42.63
188	150	59.83	48.33
198	150	58.00	47.40
208	175	87.75	71.05
218	175	82.95	67.45
228	200	93.15	76.45
238	200	84.85	77.95
248	225	122.70	99.80
258	225	115.85	92.95
268	250	129.10	106.20
278	250	140.20	111.10
288	300	156.80	127.50

CONDUIT TABLE									
SIZE (IN)	RIGID CONDUIT			INTERMEDIATE CONDUIT			EMT CONDUIT		
	#/FT	#/CPLG	TOTAL #/10FT	#/FT	(1) #/CPL	TOTAL #/10FT	#/FT	(2) #/CPL	#/10FT
1/2	0.820	0.14	8.34	0.570	0.14	5.84	0.295	0.07	3.02
3/4	1.120	0.24	11.44	0.780	0.24	8.04	0.445	0.12	4.57
1	1.600	0.39	16.39	1.120	0.39	11.59	0.650	0.20	6.70
1-1/4	2.160	0.47	22.07	1.44	0.47	14.87	0.960	0.24	9.84
1-1/2	2.680	0.66	27.46	1.760	0.66	18.26	1.110	0.33	11.43
2	3.500	1.05	36.05	2.350	1.05	24.55	1.410	0.53	14.63
2-1/2	5.600	1.80	57.80	3.930	1.80	41.10	2.300	0.90	23.90
3	7.120	3.00	74.20	7.830	3.00	51.30	2.700	1.50	28.50
3-1/2	8.520	3.90	89.10	5.610	3.90	60.00	-	-	-
4	10.300	4.00	107.00	6.250	4.00	66.50	4.000	2.00	42.00
5	13.910	7.60	146.70	-	-	-	-	-	-
6	18.500	10.75	195.75	-	-	-	-	-	-

**NOTES:**  
 (1) WEIGHTS USED ARE FOR RIGID STEEL CPLGS  
 (2) WEIGHTS USED ARE EQUAL TO .5 TIMES RIGID STEEL CPLGS

DIAGRAM H008 SEISMIC BRACING FOR CONDUIT RACK/CABLES (EXPOSED STRUCTURE OR ABOVE CEILING ONLY)

DLD OGDEN

SOUTH OGDEN, UTAH

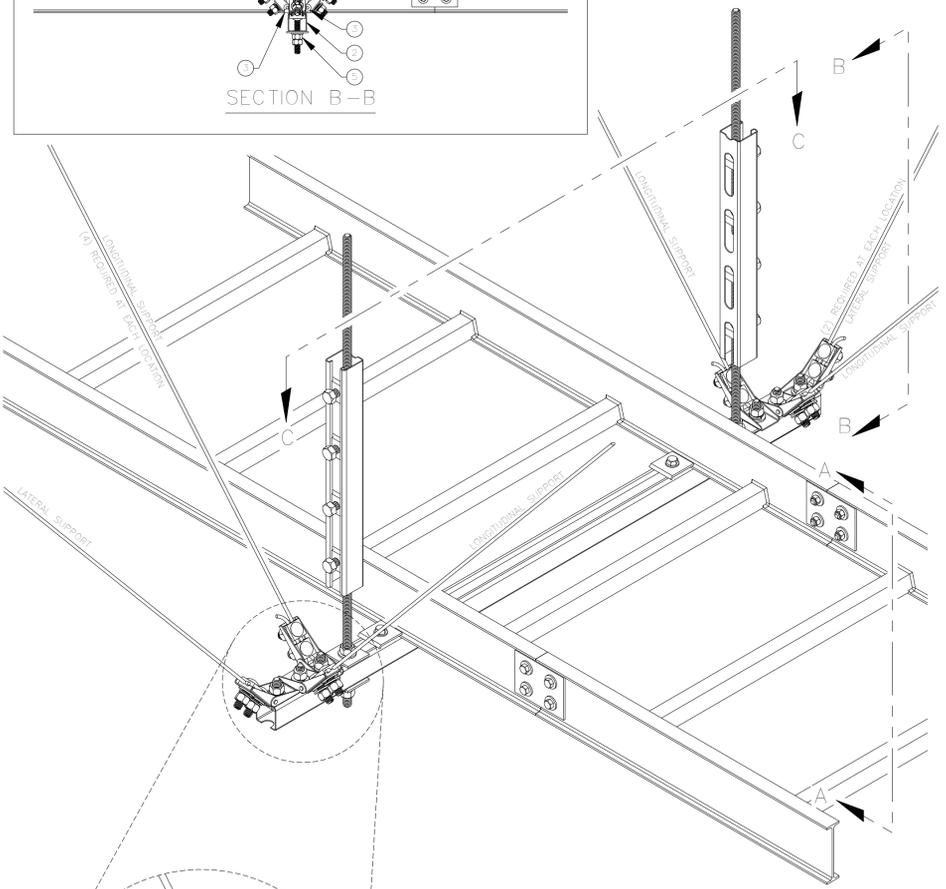
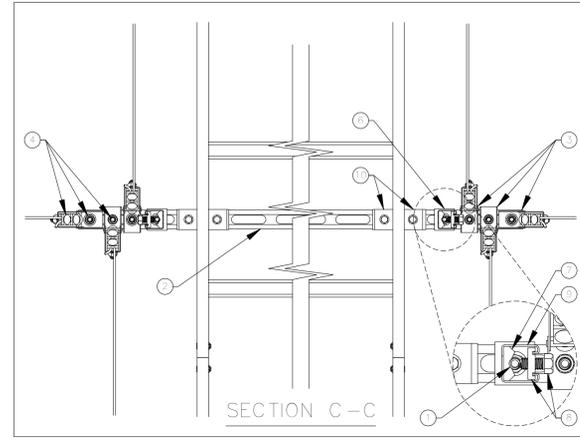
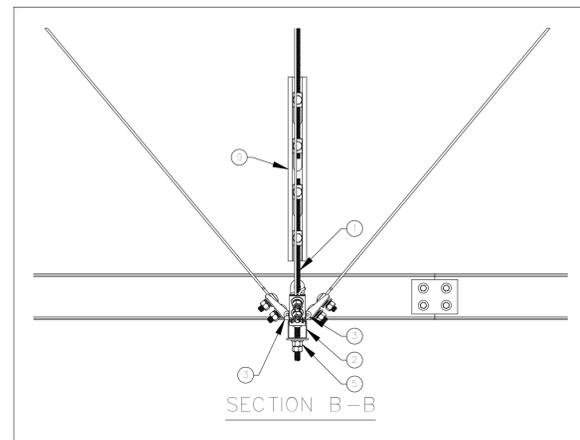
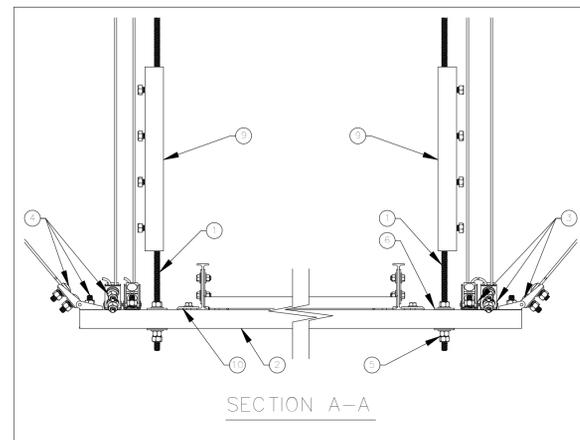


ARCHITECTS  
 577 South 200 East  
 Salt Lake City, Utah 84111  
 (801) 533-2100 fax: 533-2101 jrcaesign.com

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ELECTRICAL DIAGRAMS

E703



**PARTS LIST**

ITEM No.	DESCRIPTION	SIZE	CATALOG No. UNISTRUT
1	THREADED ROD (MIN. MODULUS OF ELASTICITY = 29x10 <sup>6</sup> LBS/IN)	SEE SCHEDULE FOR DIAMETER	-
2	METAL FRAMING CHANNEL	1-5/8"x1-5/8"	P1000
3	CABLE BRACE SWIVEL ANCHOR	SEE TABLE	MASON IND. SCB-X
4	HEX HEAD CAP SCREW WITH SPRING NUT	1/2"-13"	HHCS/P1010
5	FLAT WASHER WITH HEX NUT	3/8"	-
6	FLAT PLATE FITTING WITH HEX NUT	3/8" OR 1/2" AS REQ'D	P1063 OR P1064
7	CRADLE	-	P2485
8	HEX HEAD CAP SCREW WITH NUT	3/8"x1"	HHCS/P2008
9	SLOTTED METAL FRAMING CHANNEL	1-5/8"x1-5/8"	P1000T
10	CABLE TRAY ATTACHMENT CLIP W/CAP SCREW & NUT	-	-

**NOTES:**

1. PROVIDE LONGITUDINAL AND LATERAL SUPPORT SPACING IN ACCORDANCE WITH THE FOLLOWING:

MAX CABLE TRAY PLUS CABLE WT. POUNDS/FOOT	VERTICAL SUPPORT SPACING FEET	LATERAL SUPPORT SPACING FEET	LONGITUDINAL SUPPORT SPACING FEET	ROD DIAMETER INCHES	CABLE BRACE SWIVEL ANCHOR & CABLE
25	10	10	20	.375	SCB2
50	10	10	20	.500	SCB3

2. PROVIDE METAL FRAMING CHANNEL ON ALL VERTICAL SUPPORTS WHEN ROD LENGTH EXCEEDS 14". STIFFENER CLIP SPACING SHALL BE 12".

3. SEE SPECIFICATIONS FOR APPROVED FITTINGS FOR ATTACHMENT TO STRUCTURE.

**GENERAL NOTES**

- COORDINATE ROUTING OF CABLE TRAYS AND SUPPORT SYSTEMS WITH DIVISION 15.
- DO NOT SUPPORT FROM BOTTOM CORD OF STEEL TRUSSES.

DIAGRAM H006 SEISMIC BRACING FOR CABLE TRAY/CABLES  
(EXPOSED STRUCTURE OR ABOVE CEILING ONLY)

DLD OGDEN

SOUTH OGDEN, UTAH



ARCHITECTS  
577 South 200 East  
Salt Lake City, Utah 84111  
(801) 533-2100 fax: 533-2101 jrcadesign.com

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ELECTRICAL  
DIAGRAMS

E704