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# SALT LAKE CENTER
## UTAH SCHOOLS FOR THE DEAF AND THE BLIND

DFCM PROJECT 14190230

## Bidding Documents
05/21/2015

Architect's Seal

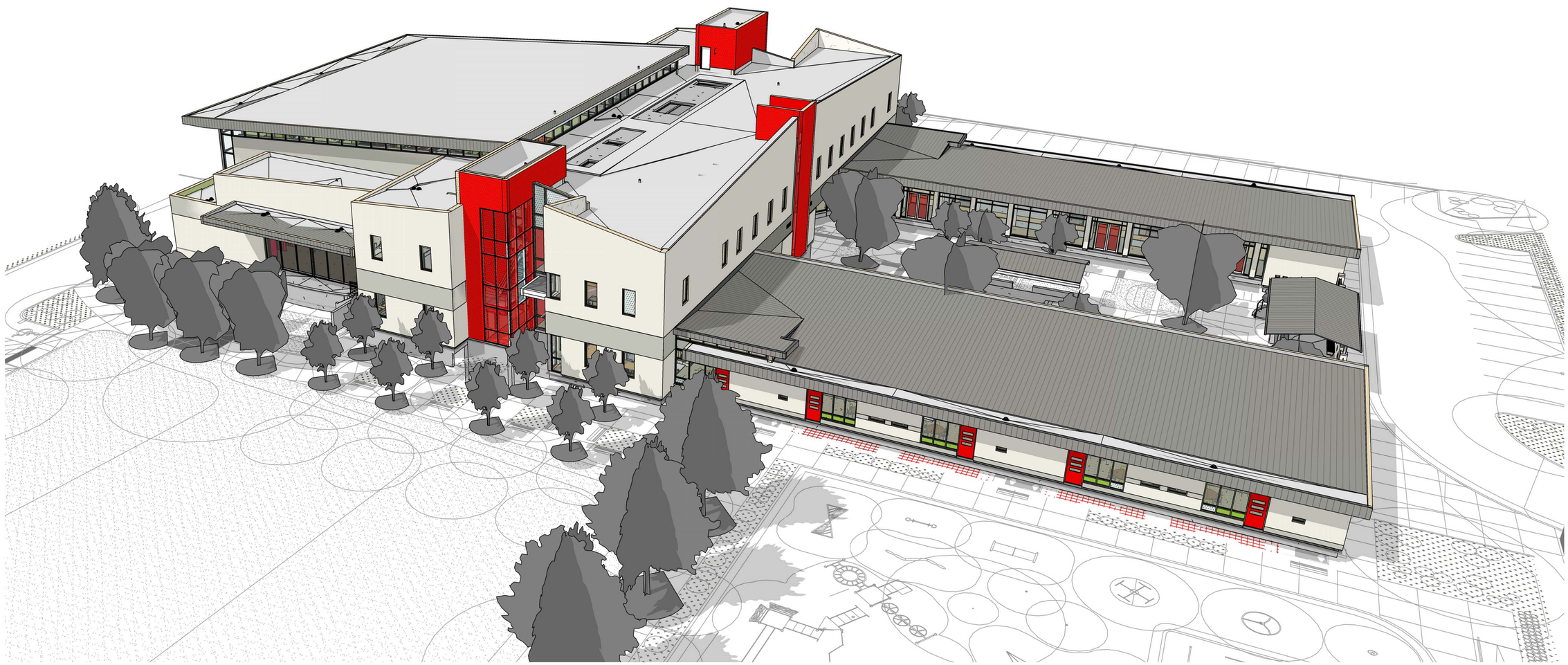
Civil Engineer's Seal

Landscape Architect's Seal

Structural Engineer's Seal

Mechanical Engineer's Seal

Electrical Engineer's Seal



DFCM Approval Stamp

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| 8.402 | PE4-02 | Plumbing Enlarged Restroom Plans Level 1 | Plumbing | X | |
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| 9.112 | EE1-12 | Details | Electrical | X | |
| 9.113 | EE1-13 | Power Single Line Diagram | Electrical | X | |
| 9.114 | EE1-14 | Panel Schedules | Electrical | X | |
| 9.115 | EE1-15 | Panel Schedules | Electrical | X | |
| 9.116 | EE1-16 | Basketball Details and Riser Diagram | Electrical | X | |
| 9.117 | EE1-17 | Security System Riser Diagram | Electrical | X | |
| 9.118 | EE1-18 | Fire Alarm Riser Diagram | Electrical | X | |
| 9.119 | EE1-19 | Communication Riser Diagram | Electrical | X | |
| 9.120 | EE1-20 | Comm Grounding & Ladder | Electrical | X | |
| 9.121 | EE1-21 | Theater Lighting Control System | Electrical | X | |
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| 9.124 | EE1-24 | Schedules | Electrical | X | |
| 9.125 | EE1-25 | Door Security Details | Electrical | X | |
| 9.210 | EL1-10 | Basement Floor Plan - Lighting | Electrical | X | |
| 9.211 | EL1-11 | Level 1 Floor Plan - Lighting | Electrical | X | |
| 9.212 | EL1-12 | Level 2 Floor Plan - Lighting | Electrical | X | |
| 9.310 | EP1-10 | Basement Floor Plan - Power | Electrical | X | |
| 9.311 | EP1-11 | Level 1 Floor Plan - Power | Electrical | X | |
| 9.312 | EP1-12 | Level 2 Floor Plan - Power | Electrical | X | |
| 9.313 | EP1-13 | Roof Plan - Power | Electrical | X | |
| 9.410 | ES1-10 | Site Plan - Electrical | Electrical | X | |
| 9.510 | EV1-10 | Basement - AV | Electrical | X | |
| 9.511 | EV1-11 | First Level - AV | Electrical | X | |
| 9.512 | EV1-12 | Second Level - AV | Electrical | X | |
| 9.610 | EV2-10 | AV Typical Diagrams | Electrical | X | |
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| 9.712 | EY1-12 | Level 2 Floor Plan - Systems | Electrical | X | |

# CODE ANALYSIS

## APPLICABLE CODES

| | Year | | Year |
|---|---|---|---|
| International Building Code | 2012 | National Electrical Code | 2011 |
| International Mechanical Code | 2012 | Uniform Code for Building Conservation | |
| International Fuel Gas Code | | ADA Accessibility Guidelines | ASNSI ICC A117.1-2009 |
| International Plumbing Code | 2012 | | |
| International Fire Code | 2012 | | |
| International Energy Conservation Code | 2012 | | |

A. Occupancy and Group: E A-2,3,4 B S

Change in Use: Yes ____ No xx Mixed Occupancy: Yes xx No ____
Special Use and Occupancy (e.g. High Rise, Covered Mall): NA

Daycare Classification as Group E per 308.6.1

B. Seismic Design Category: D Design Wind Speed: 120 (exp C.) mph

C. Type of Construction (circle one):

I A I B II A II B III A III B IV HT V A V B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: 00 South: 00 East: 00 West: 00

E. Mixed Occupancies: YES Nonseparated Uses: YES

F. Sprinklers:

Required: YES Provided: YES

Type of Sprinkler System (IBC 903.3.1) xxxx

G. Number of Stories: 2 Building Height: 15' To upper storey. 40' to parapet

H. Actual Area per Floor (square feet): Basement: 4,191 Level one: 34,838 Level two: 9,757

I. Tabular Area: E = 14500 sf A = 9500 sf

J. Area Modifications:

$I_f = [F/P - 0.25 \quad W/30]$ $\quad I_f = [29370/979 - 0.25]\ 30/30 = .75$

$A_a = \{A_t + [A_t \times I_f] + [A_t \times I_s]\}$

E Occupancy Group

$A_a = 14500 + [14500 \times .75] + [14500 \times 2] = 54{,}375$

Total Allowable Area:

1) One Story: 54,375 sf

2) Two Story: A (2) 108,750 sf

A Occupancy Group

$A_a = 9500 + [9500 \times .75] + [9500 \times 2] = 35{,}625$

Total Allowable Area:

1) One Story: 35,625 sf

2) Two Story: A (2) 71,250 sf

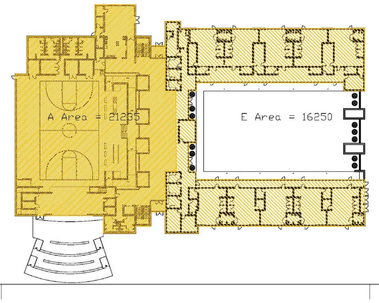
Mixed Occupancy Determination:

$$\frac{\text{Actual Area (E) (one story)}}{\text{Allowable Area (E) (one story)}} + \frac{\text{Actual Area (A) (one story)}}{\text{Allowable Area (A) (one story)}} < 1 \text{ OK}$$

$$\frac{16{,}250 \text{ sf (level 1)}}{54{,}375 \text{ sf (one level)}} + \frac{21{,}235 \text{ sf (level 1)}}{35{,}625 \text{ sf (one level)}} = .91 < 1 \text{ OK}$$

Unlimited Area Building: Yes ____ No X Code Section:

K. Actual Building Area (square feet): 48,688 sf




K. Fire Resistance Rating Requirements for Building Elements (hours)

| Element | Hours | Assembly Listing | Element | Hours | Assembly Listing |
|---|---|---|---|---|---|
| Exterior Bearing Walls | 00 | | Floors - Ceiling Floors | 00 | |
| Interior Bearing Walls | 00 | | Roofs - Ceiling Roofs | 00 | |
| Exterior Non-Bearing Walls | 00 | | Ext Doors and Windows | 00 | |
| Structural Frame | 00 | | Shaft Enclosures | 1 hr | UL 415 |
| Partitions - Permanent | 00 | | Fire Walls | NA | |
| Fire Barriers | 1 hr | UL 419 | Fire Partitions | NA | |
| | | | Smoke Partitions | NA | |

L. Design Occupant Load: 1963

Exit Width Required: 294" Exit Width Provided: 612

M. Minimum Number of Required Plumbing Facilities:

**Daytime Building Use (Classrooms and Administration Only. Gym and Gross Motor used as Classroom Breakout Spaces):**

| | | | Occupants | | Water Closets | | | | | Lavatories | | | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Room | Use | Area | Occ Load Factor | Load | Factor | | Factor | | | Factor | | | |
| | | | | | | M | | F | | | M | F | |
| Gym Floor | Education | 7098 | 50 | 142 | 1/50 | 1.42 | 1/50 | 1.09 | | 1/50 | 1.42 | 1.42 | .14 |
| Stage/Platform | Assembly | 1042 | 15 | 69 | 1/125 | .28 | 1/65 | .53 | | 1/200 | .17 | .17 | .07 |
| Bleachers | Assembly | collapsed: area in gym above | | 0 | 1/125 | 0 | 1/65 | 0 | | 1/200 | 0 | 0 | 0 |
| Gross Motor | Daycare | 2435 | 35 | 70 | 1/35 | .99 | 1/50 | xx | | 1/50 | .7 | .7 | .07 |
| Lobby | Assembly | 1976 | 15 | 131 | 1/125 | .52 | 1/65 | xx | | 1/200 | .33 | .33 | .13 |
| Food Service | Assembly | 387 | 15 | 26 | 1/125 | .10 | 1/65 | xx | | 1/200 | .06 | .06 | .03 |
| Board Room | Assembly | 475 | 15 | 32 | 1/125 | .13 | 1/65 | xx | | 1/200 | .08 | .08 | .03 |
| Garden | Assembly | 310 | 15 | 21 | 1/125 | .08 | 1/65 | xx | | 1/200 | .05 | .05 | .04 |
| Dining | Assembly | 596 | 15 | 40 | 1/125 | .16 | 1/65 | xx | | 1/200 | .10 | .10 | .02 |
| Classrooms | E Daycare | 7490 | 35 | 214 | 1/35 | 3.06 | 1/50 | xx | | 1/50 | 2.14 | 2.14 | 2.14 |
| Dressing Rooms | Education | 126 | 50 | 3 | 1/50 | .03 | 1/50 | xx | | 1/50 | .03 | .03 | .03 |
| | Accessory | 1034 | 300 | 3 | 1/50 | .03 | 1/50 | xx | | 1/50 | .03 | .03 | .03 |
| | B Office | 6931 | 100 | 69 | 1/25 + 1/50 | 2 | 1/25+1/50 | xx | | 1/40_1/80 | 2 | 2 | .69 |
| Totals | | | | 819 | | 8.8 | | 9.0 | | | 8.0 | 8.0 | 4 |

a) Water Closets - Required (m) 9 (f) 9 Provided (m) 10 (f) 10 (childrens) 10
b) Lavatories - Required (m) 8 (f) 8 Provided (m) 9 (f) 9 childrens) 5
c) Urinals - Required (m) 67% max Provided (m) 3 (f) ____
d) Bath Tubs or Showers: 1 Provided (m) 1 (f) ____
e) Drinking Fountains: 4 Provided 6 Service Sinks: x
f) 1109.2.1 Family Assisted Toilet Room Required 1 Provided 2

**After Hours Building Use (Gymnasium and Stage Only. Classroom Wing Will Be Closed):**

| | | | Occupants | | Water Closets | | | | | Lavatories | | | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Room | Use | Area | Occ Load Factor | Load | Factor | | Factor | | | Factor | | | |
| | | | | | | M | | F | | | M | F | |
| Gym Floor | Assembly | 5512 | 15 | 367 | 1/125 | 1.47 | 1/65 | 2.83 | | 1/200 | .92 | .92 | .37 |
| Stage/Platform | Assembly | 1042 | 15 | 69 | 1/125 | .28 | 1/65 | .53 | | 1/200 | .17 | .17 | .07 |
| Bleachers | Assembly | Fixed Seating | | 302 | 1/125 | 1.21 | 1/65 | 2.32 | | 1/200 | .76 | .76 | .30 |
| Gross Motor | Assembly | 2435 | 15 | 162 | 1/125 | .65 | 1/65 | 1.25 | | 1/200 | .41 | .41 | .16 |
| Lobby | Assembly | 1976 | 15 | 131 | 1/125 | .52 | 1/65 | 1.01 | | 1/200 | .33 | .33 | .13 |
| Food Service | Assembly | 387 | 15 | 26 | 1/125 | .10 | 1/65 | .2 | | 1/200 | .06 | .06 | .03 |
| Board Room | Assembly | closed due to afterhours event | | | | | | | | | | | |
| Garden | Assembly | closed due to afterhours event | | | | | | | | | | | |
| Dining | Assembly | closed due to afterhours event | | | | | | | | | | | |
| Classrooms | E Daycare | closed due to afterhours event | | | | | | | | | | | |
| Dressing Rooms | Education | 126 | 50 | 3 | 1/50 | .03 | 1/50 | xx | | 1/50 | .03 | .03 | .03 |
| | Accessory | 1034 | 300 | 3 | 1/50 | .03 | 1/50 | xx | | 1/50 | .03 | .03 | .03 |
| | B Office | closed due to afterhours event | | | | | | | | | | | |
| Totals | | | | 762 | | 4.3 | | 9.0 | | | 3.0 | 3.0 | 2 |

a) Water Closets - Required (m) 5 (f) 9 Provided (m) 10 (f) 10 (childrens) 0
b) Lavatories - Required (m) 3 (f) 3 Provided (m) 9 (f) 9 childrens) 0
c) Urinals - Required (m) 67% max Provided (m) 3 (f) ____
d) Bath Tubs or Showers: 1 Provided (m) 1 (f) ____
e) Drinking Fountains: 2 Provided 6 Service Sinks: x
f) 1109.2.1 Family Assisted Toilet Room Required 1 Provided 2

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:

a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

3) Refer to Drawings GI1-11 and GI1-12 for additional code analysis information.

## DESIGN INTENT

The Building has been designed with the intent to comply with the requirements of DFCM Standards, including enhanced accessibility

## DFCM REQUIREMENTS

Construction of new State Building and remodeling of existing buildings shall comply with all the requirements of the DFCM Standards, including enhanced accessibility. The DFCM Standards can be found at the following web site: www.dfcm.utah.gov

## THE FOLLOWING DOCUMENTS ARE REQUIRED BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED

·A code inspection report recommending that a certificate of occupancy be issued.

·Final report from the special inspection agency.

·Certificate of fire clearance from the State Fire Marshall.

·Final approval from the State Elevator inspector, if applicable.

·Final approval from the State boiler inspector, if applicable.

·Report of the disinfection of the potable water system. IPC 610

·A Certificate of Compliance from the approved fabricator, if applicable. IBC 1704.2.2

·A stamped and signed final report from the structural engineer when structural observation is required by IBC 1710.

·An NFRC Certificate for fenestration without the NFRC label.

. Final report from the special inspector and the mechanical engineer when spoke control is required. The reports must comply with IBC 909.18.8.3.


JACOBY ARCHITECTS
425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

Architectural: - Jacoby Architects, Inc. - 801.363.1434
Civil: - Meridian Engineering, Inc. - 801.569.1315
Structural: - TBSE Inc. - 801.298.8795
Mechanical: - WHW Engineering - 801.466.4021
Electrical: - ECE Consulting - 801.521.8007
Landscape: - Landmark Design - 801.474.3300
Food Service: - Jedrzewski Designs - 801.582.9747

STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT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SHEET DATA

Drawn By: Bob
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Code Analysis
Sheet Index

GI0-01

# SPECIAL INSPECTION, MATERIAL TESTING & STRUCTURAL OBSERVATION ITEMS REQUIRED BY CHAPTER 17 OF THE 2012 IBC

Indicate items requiring special inspection, structural testing, or structural observations by checking the appropriate box. All items not requiring inspection/testing should be removed from the form. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases "periodic" inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. The "Detailed Instructions & Frequency" provides a description of the presumed requirements for tasks requiring "periodic" inspections. The design professional in responsible should revise the requirements as needed on a project-specific basis.

## FABRICATORS (IBC 1704.2.5)

| | | |
|---|---|---|
| ☒ Approved Fabricator | Yes | No |

| | | |
|---|---|---|
| ☐ Unapproved Fabricator | Yes | No |

| | |
|---|---|
| Fabricators Name: | |
| Fabricators plant location | |

Required In-plant Inspections: ☐ Steel Construction ☐ Concrete Construction ☐ Wood Construction ☐ Cold-formed Construction ☐ Other: _____ ☐ Other: _____

## STRUCTURAL STEEL (IBC 1705.2.1, 1705.11.1 & 1705.12.2)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| **PRIOR TO WELDING (TABLE N5.4-1, AISC 360-10):** | | | |
| Verify welding procedures (WPS) and consumable certificates | ☒ Continuous | ☐ Periodic | |
| Material identification | ☐ Continuous | ☒ Periodic | Verify type and grade of material. |
| Welder identification | ☐ Continuous | ☒ Periodic | A system shall be maintained by which a welder who has welded a joint or member can be identified. |
| Fit-up groove welds | ☐ Continuous | ☒ Periodic | Verify joint preparation, dimensions, cleanliness, tacking, and backing. |
| Access holes | ☐ Continuous | ☒ Periodic | Verify configuration and finish. |
| Fit-up of fillet welds | ☐ Continuous | ☒ Periodic | Verify alignment, gaps at root, cleanliness of steel surfaces, and tack weld quality and location. |
| **DURING WELDING (TABLE N5.4-2, AISC 360-10):** | | | |
| Use of qualified welders | ☐ Continuous | ☒ Periodic | Verify that welders are appropriately qualified. |
| Control and handling of welding consumables | ☐ Continuous | ☒ Periodic | Verify packaging and exposure control. |
| Cracked tack welds | ☐ Continuous | ☒ Periodic | Verify that welding does not occur over cracked tack welds. |
| Environmental conditions | ☐ Continuous | ☒ Periodic | Verify win speed is within limits as well as precipitation and temperature. |
| WPS followed | ☐ Continuous | ☒ Periodic | Verify items such as settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position. |
| Welding techniques | ☐ Continuous | ☒ Periodic | Verify interpass and final cleaning, each pass is within profile limitations, and quality of each pass. |



| | | | |
|---|---|---|---|
| **AFTER WELDING (TABLE N5.4-3, AISC 360-10):** | | | |
| Welds cleaned | ☐ Continuous | ☒ Periodic | Verify that welds have been propyl cleaned. |
| Size, length, and location of welds | ☒ Continuous | ☐ Periodic | |
| Welds meet visual acceptance criteria | ☒ Continuous | ☐ Periodic | |
| Arc strikes | ☒ Continuous | ☐ Periodic | |
| k-area | ☒ Continuous | ☐ Periodic | |
| Backing & weld tabs removed | ☒ Continuous | ☐ Periodic | |
| Repair activities | ☒ Continuous | ☐ Periodic | |
| Document acceptance or rejection of welded joint/member | ☒ Continuous | ☐ Periodic | |
| **NONDESTRUCTIVE TESTING (SECTION N5.5, AISC 360-10):** | | | |
| CJP welds (Risk Cat. III or IV) | ☒ Continuous | ☐ Periodic | ***A reduction in the rate of ultrasonic testing is allowed per Section N5.5e.*** |
| Access holes (flange > 2") | ☒ Continuous | ☐ Periodic | |
| Welded joints subject to fatigue | ☒ Continuous | ☐ Periodic | |
| **PRIOR TO BOLTING (TABLE N5.6-1, AISC 360-10):** ➢ *Not required if only snug-tight joints are specified [per Section N5.6(1) of AISC 360-10].* | | | |
| Certifications of fasteners | ☒ Continuous | ☐ Periodic | |
| Fasteners marked | ☐ Continuous | ☒ Periodic | Verify that fasteners have been marked in accordance with ASTM requirements. |
| Proper fasteners for joint | ☐ Continuous | ☒ Periodic | Verify grade, type, and bolt length if threads are excluded from the shear plane. |
| Proper bolting procedure | ☐ Continuous | ☒ Periodic | Verify proper procedure is used for the joint detail. |
| Connecting elements | ☐ Continuous | ☒ Periodic | Verify appropriate faying surface condition and hole preparation, if specified, meet requirements. |
| Pre-installation verification testing | ☐ Continuous | ☒ Periodic | Observe and document verification testing by installation personnel for fastener assemblies and methods used. |
| Proper storage | ☐ Continuous | ☒ Periodic | Verify proper storage of bolts, nuts, washers, and other fastener components. |
| **DURING BOLTING (TABLE N5.6-2, AISC 360-10):** ➢ *Not required if only snug-tight joints are specified [per Section N5.6(1) of AISC 360-10].* ➢ *Not required for pretensioned joints using turn-of-the-nut method with match-marking, direct-tension-indicators, or twist-off type tension control method [per Section N5.6(2) of AISC 360-10].* | | | |
| Fastener assemblies | ☐ Continuous | ☒ Periodic | Verify that fastener assemblies are of suitable condition, paced in all holes, and washers are positioned as required. |
| Snug-tight prior to pretensioning | ☐ Continuous | ☒ Periodic | Verify that joints are brought to snug-tight condition prior to pretensioning operation. |
| Fastener component | ☐ Continuous | ☒ Periodic | Verify that fastener component is not turned by wrench prevented from rotating. |
| Pretensioned fasteners | ☐ Continuous | ☒ Periodic | Verify that fasteners are Pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid point toward the free edges. |
| **AFTER BOLTING (TABLE N5.6-3, AISC 360-10):** | | | |
| Document acceptance or rejection of bolted connections | ☒ Continuous | ☐ Periodic | |



| | | | |
|---|---|---|---|
| **OTHER STEEL INSPECTIONS (SECTION N5.7, AISC 360-10; Tables J8-1 & J10-1, AISC 341-10):** | | | |
| Structural steel details | ☐ Continuous | ☒ Periodic | All fabricated steel or steel frames shall be inspected to verify compliance with the details shown in the construction documents, such as braces, stiffeners, member locations, and proper application of joint details at each connection. |
| Anchor rods and other embedments supporting structural steel | ☐ Continuous | ☒ Periodic | Shall be on the premises during the placement of anchor rods and other embedments supporting structural steel for compliance with construction documents. Verify the diameter, grade, type, and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement of concrete. |
| Reduced beam sections (RBS) | ☐ Continuous | ☒ Periodic | Verify contour and finish as well as dimensional tolerances *(see Table J8-1 of AISC 341-10)*. |
| Protected zones | ☐ Continuous | ☒ Periodic | Verify that no holes or unapproved attachments are made within the protected zone *(see Table J8-1 of AISC 341-10)*. |
| **STEEL ELEMENTS OF COMPOSITE CONSTRUCTION (TABLE N6.1, AISC 360-10; TABLES J9-1 thru J9-3, AISC 341-11):** | | | |
| Placement and installation of steel deck | ☒ Continuous | ☐ Periodic | |
| Placement and installation of steel headed stud anchors | ☒ Continuous | ☐ Periodic | |
| Document acceptance or rejection of steel elements | ☒ Continuous | ☐ Periodic | |
| Reinforcing steel | ☐ Continuous | ☒ Periodic | Verify appropriate reinforcement size, spacing, and orientation; that it has not been re-bent in field; that it is correctly tied and supported; and that required steel clearances have been provided. |
| Composite member size | ☐ Continuous | ☒ Periodic | Verify that composite member is the required size. |

## STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC 1705.2.2)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| **STEEL ROOF AND FLOOR DECKS (IBC TABLE 1705.2.2):** | | | |
| Material verification of cold-formed steel deck | ☐ Continuous | ☒ Periodic | Confirm that identification markings are provided to conform to ASTM standards specified on construction documents. |
| Floor and roof deck welds | ☐ Continuous | ☒ Periodic | Visual inspection is required to confirm that weld meets acceptance criteria of AWS D1.3. Welder qualifications should also be verified. |
| **WELDING OF REINFORCING STEEL (IBC TABLE 1705.2.2):** | | | |
| Verification of weldability | ☐ Continuous | ☒ Periodic | Verify weldability of reinforcing steel based upon carbon equivalent and in accordance with AWS D1.4. |
| Other reinforcing steel | ☐ Continuous | ☒ Periodic | Visually inspect all welds in accordance with AWS D1.4. |



## CONCRETE CONSTRUCTION (IBC 1705.3 & 1705.12.1)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Reinforcing steel, including prestressing tendons | ☐ Continuous | ☒ Periodic | Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report. |
| Cast-in bolts & embeds | ☐ Continuous | ☒ Periodic | Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used. |
| Post-installed anchors or dowels | ☐ Continuous | ☒ Periodic | All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report. |
| Use of required mix design | ☐ Continuous | ☒ Periodic | Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 4, 5.2-5.4; and IBC 1904.3, 1913.2, 1913.3. |
| Concrete sampling for strength tests, slump, air content, and temperature | ☒ Continuous | ☐ Periodic | |
| Concrete & shotcrete placement | ☒ Continuous | ☐ Periodic | |
| Curing temperature and techniques | ☐ Continuous | ☒ Periodic | Verify that the ambient temperature for concrete is kept at > 50°F for at least 7 days after placement. High-early-strength concrete shall be kept at > 50°F for at least 3 days. Accelerated curing methods may be used (see ACI 318: 5.11.3). The ambient temperature for shotcrete shall be > 40°F for the same period of time as noted for concrete. Shotcrete shall be kept continuously moist for at least 24 hours after shotcreting. All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded. |
| Strength verification | ☐ Continuous | ☒ Periodic | Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons. |
| Formwork | ☐ Continuous | ☒ Periodic | Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents. |



## SOILS CONSTRUCTION (IBC 1705.6)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Verify subgrade is adequate to achieve design bearing capacity | ☐ Continuous | ☒ Periodic | Prior to placement of concrete. |
| Verify excavations extend to proper depth and material | ☐ Continuous | ☒ Periodic | Prior to placement of compacted fill or concrete. |
| Verify that subgrade has been appropriately prepared prior to placing compacted fill | ☐ Continuous | ☒ Periodic | Prior to placement of compacted fill. |
| Perform classification and testing of compacted fill materials | ☐ Continuous | ☒ Periodic | All materials shall be checked at each lift for proper classifications and gradations not less than once for each 10,000ft² of surface area. |
| Verify proper materials, densities and lift thicknesses during placement and compaction. | ☒ Continuous | ☐ Periodic | |

## SPRAYED FIRE-RESISTANT MATERIALS (IBC 1705.13)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Surface preparation | ☐ Continuous | ☒ Periodic | IBC 1705.13 |
| Material thickness | ☐ Continuous | ☒ Periodic | IBC 1705.13 |
| Material density | ☐ Continuous | ☒ Periodic | IBC 1705.13 |
| Bonding strength | ☐ Continuous | ☒ Periodic | IBC 1705.13 |

## MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (IBC 1705.14)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Surface preparation | ☐ Continuous | ☐ Periodic | Na |
| Thickness | ☐ Continuous | ☐ Periodic | Na |

## EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) (IBC 1705.15)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Material and installation | ☐ Continuous | ☐ Periodic | Na |

## FIRE-RESISTANT PENETRATIONS AND JOINTS (IBC 1705.16)

➢ *Only required for high-rise buildings or those assigned to Risk Category III or IV per IBC Table 1604.5.*

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Penetration firestops | ☐ Continuous | ☐ Periodic | Na |
| Fire-resistant joint systems | ☐ Continuous | ☐ Periodic | Na |

## SMOKE CONTROL (IBC 1705.17)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Verify device locations and perform leakage testing | ☐ Continuous | ☐ Periodic | Na |
| Pressure difference testing, flow measurements and detection and control verification | ☐ Continuous | ☐ Periodic | Na |



## ARCHITECTURAL COMPONENTS (IBC 1705.11.5 & 1705.11.7)

➢ *Only required for buildings located within Seismic Design Category D, E, or F.*

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Erection and fastening of exterior cladding or interior and exterior veneers | ☐ Continuous | ☒ Periodic | Verify appropriate materials, fasteners and attachment at commencement of work and at completion. Performed by code inspection firm. (Not required if < 30 feet or less than 5psf). |
| Erection and fastening of interior and exterior nonbearing walls | ☐ Continuous | ☒ Periodic | Verify appropriate materials, fasteners and attachment at commencement of work and at completion. Performed by code inspection firm. (Not required if < 30 feet or for interior walls < 15psf). |
| Access floors | ☐ Continuous | ☐ Periodic | Na |
| Storage racks | ☐ Continuous | ☐ Periodic | Na |

## MECHANICAL & ELECTRICAL COMPONENTS (IBC 1705.11.4 & 1705.11.6)

➢ *Only required for buildings located within Seismic Design Category C, D, E, or F.*

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Anchorage of emergency or standby power systems | ☐ Continuous | ☒ Periodic | Verify that anchorage complies with approved construction documents. ***Performed by code inspection firm.*** |
| Installation of piping systems carrying flammable, combustible or highly toxic materials | ☐ Continuous | ☐ Periodic | Not applicable |
| Installation of HVAC ductwork containing hazardous materials | ☐ Continuous | ☐ Periodic | Not Applicable |
| Installation of vibration isolation systems having a clearance of ≤¼" | ☐ Continuous | ☒ Periodic | Verify that installation complies with approved construction documents and manufacturer's recommendations. ***Performed by code inspection firm.*** |
| Designated seismic systems | ☐ Continuous | ☒ Periodic | Confirm that manufacturer's certificate of compliance conforms to the requirements of Section 13.2 of ASCE 7-10. Verify that the label, anchorage or mounting conforms to the manufacturer's certificate of compliance. ***Performed by code inspection firm.*** |

## SEISMICALLY ISOLATED STRUCTURES (IBC 1705.11.8 & 1705.12.4)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Prototype tests | ☐ Continuous | ☒ Periodic | Prototype tests shall be performed on selected samples prior to construction in accordance with Section 17.8 of ASCE 7-10. |
| Fabrication and installation | ☐ Continuous | ☒ Periodic | Verify that fabrication and installation of isolator units and energy dissipation devices conform to manufacturer's recommendations and approved construction documents. |

## SPECIAL CASES (IBC 1705.1.1) – material alternatives or unusual design applications

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Material and installation | ☐ Continuous | ☐ Periodic | Per design professional in responsible charge or report from an accepted accreditation agency (i.e. ICC-ES). |



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CONSULTANTS

| | |
|---|---|
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| Structural: | TBSE Inc. - 801.298.8795 |
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| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrziewski Designs - 801.582.9747 |

STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
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SHEET DATA

Drawn By: Bob
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018
DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Spcl. Insp. and Testing

GI0-02

## MISCELLANEOUS AREAS

➢ *These inspections may be recommended by the Architect/Engineer and are to be approved by DFCM.*

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Suspended Acoustical Ceilings | ☐ Continuous | ☐ Periodic | ***Performed by code inspection firm.*** |
| Soil backfill (specify locations and frequency) | ☐ Continuous | ☐ Periodic | |
| Soils for curb and gutter (specify locations and frequency) | ☐ Continuous | ☐ Periodic | |
| Soils for parking lots (specify locations and frequency) | ☐ Continuous | ☐ Periodic | |
| Soils for utility trench backfill | ☐ Continuous | ☐ Periodic | |
| Reinforcement for slab on grade sidewalks and drive approaches (specify locations and frequency) | ☐ Continuous | ☐ Periodic | |
| Reinforcement for interior slab on grade (specify locations and frequency) | ☐ Continuous | ☒ Periodic | Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided. |
| Concrete testing for slab on grade sidewalks and drive approaches (specify locations and frequency) | ☐ Continuous | ☐ Periodic | |
| Concrete testing for interior slab on grade (specify locations and frequency) | ☐ Continuous | ☒ Periodic | Concrete sampling for strength tests, slump, air content, and temperature. |
| Asphalt inspection (specify locations and frequency) | ☐ Continuous | ☐ Periodic | |
| Asphalt testing (specify locations and frequency) | ☐ Continuous | ☐ Periodic | |
| Steam and water line welding (specify locations and frequency) | ☐ Continuous | ☐ Periodic | |
| Seismic supports for duct work and sealing of joints for duct work | ☐ Continuous | ☒ Periodic | |
| Seismic supports for electrical raceways, cable trays and lights | ☐ Continuous | ☒ Periodic | |
| Seismic supports for plumbing lines including gas, water and steam and condensation | ☐ Continuous | ☒ Periodic | |
| Seismic bracing for mechanical units both on slab and suspended | ☐ Continuous | ☒ Periodic | |
| Cold Fluid Applied Waterproofing | ☐ Continuous | ☒ Periodic | Thickness verification and Flood Testing @ Vegetated Roof. |
| Concrete Floor Flatness at Gymnasium | ☐ Continuous | ☒ Periodic | Concrete Floor Flatness at areas to receive Athletic Wood Flooring |
| Structural Silicon Glazed Curtainwall | ☐ Continuous | ☒ Periodic | Adhesion Test |
| | ☐ Continuous | ☐ Periodic | |

### Special Inspectors Shall:

- Be approved by the Building Official prior to performing any duties;
- Provide proof of licensure as a special inspector by the State of Utah for each type of inspection;
- Inspection reports are to meet the requirements of IBC 1704.2.4 and DFCM standards;
- Inspection reports are to be submitted to the code consultant, architect, DFCM project manager, and the State of Utah Building Official within 48 hours of performing inspections;
- A final inspection report shall be submitted following completion of the project documenting the types of special inspections performed and a statement indicating that the structure is in compliance with the approved construction documents and applicable codes (see IBC 1704.2.4).

## STRUCTURAL OBSERVATIONS (IBC 1704.5)

| Item | | Proposed Frequency | Name of Structural Observer |
|---|---|---|---|
| Footings & Piers | ☒ Required | One observation prior to pouring footings | Luke Balling, S.E. |
| Mat Foundations | ☒ Required | One observation prior to pouring mat foundations | Luke Balling, S.E. |
| Steel Moment Frames | ☒ Required | One observation after moment frames erected and welding complete | Luke Balling, S.E. |
| Steel Braced Frames | ☒ Required | One observation after braced frames erected and welding complete | Luke Balling, S.E. |
| Concrete Diaphragms | ☒ Required | One observation prior to pouring composite floor | Luke Balling, S.E. |
| Steel Deck Diaphragms | ☒ Required | One observation during construction of roof | Luke Balling, S.E. |
| Other: | ☐ Required | | |
| Other: | ☐ Required | | |
| Other: | ☐ Required | | |
| Other: | ☐ Required | | |

### Structural Observer's Shall:

- Provide proof of licensure as a licensed professional/structural engineer by the State of Utah;
- If structural observations are performed by individuals other than the design professional in responsible charge, they should first be approved by the Building Official.
- At the conclusion of work a final structural observation report must be submitted to the Building Official noting any deficiencies which, to the best of the structural observer's knowledge, have not been resolved (see IBC 1704.5).

Updated July 22, 2013



DFCM REQUIREMENTS FOR SEISMIC RESTRAINT OF NONSTRUCTURAL COMPONENTS Revised: 08/06/2013

**1. General Requirements:**

These guidelines define the minimum submittal requirements to obtain DFCM approval for seismic restraint of nonstructural components. The guidelines noted herein shall not cancel or set aside more conservative requirements specified by the design professional in responsible charge.

d) All references made to the IBC or ASCE 7 reference the 2012 and 2010 editions, respectively.

**4. Deferred Submittal Construction Documents:**

a) The construction documents must include seismic restraint details providing specific information relating to the materials, type, size, and locations of anchorages; materials used for bracing; attachment requirements of bracing to structure and component; and locations of transverse and longitudinal sway bracing and rod stiffeners.

b) The construction documents must provide a "Statement of Special Inspections" which addresses the special inspection and testing requirements for nonstructural components in accordance with IBC Chapter 17. Where seismic protections for vibration isolated equipment are designed utilizing a gap clearance of < 0.25" between the support frame and restraint, the installation shall be subject to special inspection in order to verify the gap clearance.

c) DFCM will accept products that have been tested and listed under the ICC Evaluation Service Program, as long as they are installed in accordance with the provisions and limitations of the ICC Listing Report.

d) The requirements for anchorage/bracing of nonstructural components cannot be satisfied by a general reference to Design Manuals. Design professional may utilize these manuals as a basis of their design, but must provide all supporting documentation to ensure that the design conforms to the requirements of the IBC.

e) Rod hangers shall not be used as seismic supports unless the length of the hanger from the supporting structure is 12 inches or less as measured from the top of the component to the point of connection to the structure. Rod hangers shall not be constructed in a manner that subjects the rod to bending moments. Displacement of the component shall not cause damaging impact with other utilities or the structure. Flexible connections are required between systems and equipment to accommodate differential displacements. This exception does not apply to HVAC systems having an IP > 1.0.

**5. Seismic Restraint Design Requirements:**

a) Per IBC 1613.1, the seismic restraint of nonstructural components shall meet the requirements of ASCE 7. If the component in question is exempted by Section 13.1.4 of ASCE 7, a seismic restraint submittal of that particular component is not required.

b) The seismic restraint design must meet the requirements listed in Table 13.2-1 of ASCE 7. These requirements may be met by providing either a project-specific design prepared by a registered design professional, or a manufacturer's certification that the component is seismically qualified.

c) For manufacturer's to certify that components are "seismically qualified" the following must be met:
An engineered analysis conforming to the requirements of Chapter 13 of ASCE 7.
Testing by a nationally recognized testing standard procedure such as ICC-ES AC 156. The substantiated seismic design capacities shall exceed the seismic demands determined by Section 13.3 of ASCE 7.
Experience data conforming to a nationally recognized procedure. The substantiated seismic design capacities shall exceed the seismic demands determined by Section 13.3 of ASCE 7.

d) Seismic qualification is not required for equipment and components listed below, which are considered rugged. This exception applies to factory assembled discrete equipment and components only. It does not apply to site assembled or field assembled equipment.
Valves (not in cast-iron housings, except for ductile cast iron).
Pneumatic operators.
Hydraulic operators.
Motors and motor operators.
Horizontal and vertical pumps (including vacuum pumps).
Air compressors
Refrigerators and freezers.
Elevator cabs.
Underground tanks.
Equipment and components weighing not more than 20 lbs. supported directly on structures (and not mounted on other equipment or components) with supports and attachments in accordance with Chapter 13, ASCE 7.

e) Designated Seismic Systems (IP > 1.0) must be "seismically qualified" in accordance with the following guidelines:
"Active" mechanical and electrical equipment that must remain operable after the design earthquake:
- Testing as detailed by Part 'd' above.
- Experience data as detailed by Part 'd' above.
- Equipment that is considered "rugged" per Part 'd' above.
Components containing hazardous materials shall be certified by the manufacturer as maintaining containment following the design earthquake:
- Testing as detailed by Part 'd' above.
- Experience data as detailed by Part 'd' above.
- Engineering analysis utilizing dynamic characteristics and forces. Tanks (without vibration isolators) designed by a registered design professional in accordance with ASME Boiler and Pressure Vessel Code, 2004 (BPVC 2004), and satisfying the force and displacement requirements of Sections 13.3.1 and 13.3.2 of ASCE 7 with an IP = 1.5.

f) The following seismic restraint publications shall be considered "Accepted Engineering Practice": - Guidelines and details that have been evaluated and reported under the International Code Council Evaluation Service Program (ICC-ES).
- Seismic restraint manuals, guidelines and details that have been approved by the California Office of Statewide Health Planning and Development (OSHPD) under their pre-approval program for seismic restraint systems. Only those systems listing a current "07" OSHPD number (i.e. OPA-0300-07) are acceptable.

**6. Concrete Anchorage Design for Nonstructural Components:**

a) All anchorage designs must comply with the requirements listed in the ASCE 7, Chapter 13.

b) All anchorage designs must also comply with Appendix D of ACI 318.

c) All anchors requiring special inspection must specify special inspection is required within the submittal.

d) Power actuated fasteners are prohibited from use in tension load applications for projects within Seismic Design Category 'D' or above unless they are specifically tested and approved for use.

e) Expansion anchors shall not be used for mechanical equipment with motors rated over 10hp.
Exceptions:
- Vibration isolated equipment utilizing springs for isolation
- Undercut expansion anchors are used

f) All post installed anchors must have a current ICC-ES report for the proposed application.

**7. Deferred Submittals:**

a) Deferred submittals of seismic restraint of nonstructural components must be submitted to the DFCM Building Official a minimum of two weeks prior to the planned installation in order to allow for plan review and forwarding to inspectors. In the event that the submittal is deficient additional time may become necessary.

b) Deferred submittals shall be clearly noted on the construction plans as required by IBC 107.3.4.1. Prior to submitting to the DFCM Building Official, the submittal must be reviewed by the design professional in responsible charge and approved for general conformance with the design of the building. Please note on the plans that no deferred submittal element shall be installed until DFCM approval has been received.

c) All deferred submittals for seismic restraint of nonstructural components shall include a Special Inspection/Quality Assurance plan in accordance with IBC Chapter 17.

d) When seismic restraint of nonstructural components is installed prior to receiving DFCM approval it shall not be covered or concealed until plan review and inspection approval. Further, installers are proceeding at their own risk until plan review and inspection approval occurs.

### NONSTRUCTURAL COMPONENT CHECKLIST

| *ITEM DESCRIPTION* | *NOT REQUIRED* | *ON CONST. DOCUMENTS* | *DEFERRED SUBMITTAL* | *COMMENTS* |
|---|---|---|---|---|
| **Architectural Components:** | | | | |
| Interior Nonstructural Walls & Partitions | | | XXX | Refer to Spec Section 092216 Non Structural Metal Framing, and Sheets AE4-81 and AE4-82 |
| Cantilever Elements *(i.e. parapets, etc.)* | | XXX | | |
| Exterior Nonstructural Wall Elements | | | XXX | Refer to Spec Section 05 400 |
| Veneer | | XXX | | |
| Penthouses | | XXX | | |
| Ceilings *(i.e. suspended grid or hard-lid)* | | | XXX | Refer to Spec Sections 092216 Non Structural Metal Framing, and 095113 Acoustical Panel Ceilings and Drawing AE1-41 and AE1-42 |
| Cabinets *(i.e. storage cabinets, equip, etc.)* | | XXX | | Refer to Spec Sections 064113 Wood Veneer Faced Architectural Cabinets |
| Access Floors | XXX | | | Not in Project |
| Storage Racks | XXX | | | Not in Project |
| Appendages & Ornamentations | XXX | | | Not in Project |
| Signs & Billboards | XXX | | | Not in Project |
| Other: | | | | |
| Other: | | | | |
| **MEP Components:** | | | | |
| Fire Sprinklers | | | XXX | |
| Mechanical Equipment *(i.e. HVAC, fans, air handlers, boilers, furnaces, tanks, chillers, water heaters, heat exchangers, evaporators, engines, turbines, pumps, compressors, MFR equipment, etc.)* | | | XXX | |
| Electrical Equipment *(i.e. generators, batteries, inverters, transformers, MCC, panel boards, switch gear, cabinets, etc.)* | | XXX | XXX | Refer to Specification sections 26000 for specification of Genset(263213), panel boards(262416), switchgear(262413). MCC; batteries and inverters are not in this project. |
| Elevator & Escalator Components | | | XXX | |
| Communication Equipment, Computers, Instrumentation, and Controls | | | XXX | Only cabling, conduit and racks are part of this project, specification section (271301). Active devices and computers are not included. |
| Roof-mounted Chimneys, Stacks, Cooling & Electrical Towers | XXX | | | Not in Project |
| Lighting Fixtures | | XXX | | Refer to light fixture schedule on sheet E002 and Spec section (265100) |
| Vibration Isolated Components | | | XXX | Only specified for Genset. |
| Piping & Conduit Systems | | | XXX | Conduit are used for the entire project, spec section (260533). |
| Ductwork *(including in-line components)* | | | XXX | |
| Conveyors | | | | |
| Cable Trays | | | XXX | Are used for communication systems only spec section (260536). |
| Electrical Conduit Racks | | | XXX | Not in project. |
| Other: | | | | |

**NOTES:**

1. Deferred submittals for seismic restraint of nonstructural components must be submitted to the DFCM Building Official a minimum of two weeks prior to the planned installation in order to allow for plan review and forwarding to inspectors. In the event that the submittal is deficient additional time may become necessary.
2. If seismic restraints of non-structural components are installed prior to receiving DFCM approval they shall not be covered or concealed until receiving both plan review and inspection approval. Further, installers are proceeding at their own risk until plan review and inspection approval occurs.

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3. The requirements for seismic restraint of nonstructural components cannot be satisfied by a general reference to Design Manuals. The design professional may utilize these manuals as a basis of their design, but must provide all supporting documentation to ensure that the design conforms to the requirements of ASCE 7-10, Chapter 13.
4. Submittals must include details of the proposed seismic restraint of nonstructural components. These details must show specific information relating to the materials, type, size, and locations of anchorages; materials used for bracing; attachment requirements of bracing to structure and component; and locations of transverse and longitudinal sway bracing and rod stiffeners. Submittals may also require structural calculations, engineering reports, test data, and/or specifications to ensure code compliance.

**Deferred Submittal List**
The following information will be submitted during construction. Submittals will be reviewed by the A/E

| Spec Section | Name | Estimated Date |
|---|---|---|
| 142400 | Hydraulic Elevators | 8/15 |
| | Non-Structural Metal Framing for Wall and non acoustical | |
| 092216 | Ceiling Structural Calculations | 1/16 |
| 057300 | Cantilevered Glass Ballusters and Rails | 1/16 |
| 072726 | Fluid Applied Membrane Air Barrier ICC evaluation Report | 1/16 |
| 084413 | Glazed Aluminum Curtain Walls | 12/15 |
| 084113 | Aluminum-Framed Entrances and Storefronts | 12/15 |
| 084114 | Aluminum Framed Interior Glazing Systems | 12/15 |
| 087100 | Door Hardware | 3/16 |
| 054000 | Cold-Formed Metal Framing | 10/15 |
| 095113 | Acoustical Panel Ceilings for Structural Calculations and Details | 2/16 |
| 210000 | Fire Sprinklers Performance Specification | 11/15 |
| 052100 | Steel Joist Framing | 10/15 |
| 260551 | Light Pole Base Design | 3/16 |
| 114000 | Kitchen Exhaust Hood and Fire Extinguishing System | 3/16 |
| 283111 | Digital, Addressable Fire Alarm System | 1/2016 |

JACOBY ARCHITECTS
425 South 400 East
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801 363 1434
Project Number: 2014-07

CONSULTANTS

| | |
|---|---|
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| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedziewski Designs - 801.582.9747 |

STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT

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SHEET DATA
Drawn By: Bob
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018
DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Spcl. Insp. and Testing / Deferred Submittals

GI0-03

# Abbreviations

## Reference Standards

| | |
|---|---|
| ACI | AMERICAN CONCRETE INSTITUTE |
| ADA | AMERICANS WITH DISABILITIES ACT |
| AGA | AMERICAN GAS ASSOCIATION |
| AIA | AMERICAN INSTITUTE OF ARCHITECTS |
| AWS | AMERICAN WELDING SOCIETY |
| AWI | ARCHITECTURAL WOODWORKING INSTITUTE |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE |
| ASHRAE | AMERICAN SOCIETY OF HEATING REFRIGERATING, AND AIR CONDITIONING ENGINEERS |
| ASPE | AMERICAN SOCIETY OF PLUMBING ENGINEERS |
| ASSE | AMERICAN SOCIETY OF SANITARY ENGINEERS |
| AWWA | AMERICAN WATER WORKS ASSOCIATION |
| ASME | AMERICAN SOCIETY OF MECHANICAL ENGINEERS |
| ASTM | AMERICAN SOCIETY OF TESTING AND MATERIALS |
| AASHTO | AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS |
| CS | COMMERCIAL STANDARD |
| CSI | CONSTRUCTION SPECIFICATION INSTITUTE |
| CISPI | CAST IRON SOIL PIPE INSTITUTE |
| FS | FEDERAL SPECIFICATIONS |
| IGCC | INSULATING GLASS CERTIFICATION COUNCIL |
| MSS | MANUFACTURERS STANDARDIZATION SOCIETY |
| NBS | NATIONAL BUREAU OF STANDARDS |
| NEC | NATIONAL ELECTRICAL CODE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| NFPA | NATIONAL FOREST PRODUCTS ASSOCIATION |
| NPA | NATIONAL PARTICLEBOARD ASSOCIATION |
| NSF | NATIONAL SANITATION FOUNDATION |
| NSPI | NATIONAL SWIMMING POOL INSTITUTE |
| OSHA | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION |
| PCI | PRECAST/PRESTRESSED CONCRETE INSTITUTE |
| PDI | PLUMBING AND DRAINAGE INSTITUTE |
| SMACNA | SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION |
| SIGMA | SEALED INSULATING GLASS MANUFACTURERS ASSOCIATION |
| UL | UNDERWRITERS LABORATORIES |
| WCF | WATER CONDITIONING FOUNDATION |

## Trade Standards

| | |
|---|---|
| A/E | ARCHITECT AND/OR ENGINEER |
| EC | ELECTRICAL CONTRACTOR |
| ELC | ELEVATOR CONTRACTOR |
| FPC | FIRE PROTECTION CONTRACTOR |
| FSC | FOOD SERVICE CONTRACTOR |
| GC | PRIME CONTRACTOR OR DESIGNATED CONTRACTOR OF CHOICE |
| HC | HEATING CONTRACTOR |
| PC | PLUMBING CONTRACTOR |
| TCC | TEMPERATURE CONTROL CONTRACTOR |

## Architectural Abbreviations

| | |
|---|---|
| AC | AIR CONDITIONING |
| ACOUS | ACOUSTICAL |
| ACOUS INSUL | ACOUSTICAL INSULATION |
| ACOUS PNL | ACOUSTICAL PANEL |
| ACOUS TILE | ACOUSTICAL TILE |
| ACP | ASPHALTIC CONCRETE PAVING |
| ACS FLR | ACCESS FLOOR |
| ACS PNL | ACCESS PANEL |
| ADC | AUTOMATIC DOOR CLOSER |
| ADDL | ADDITIONAL |
| ADJ | ADJUSTABLE |
| ADJC | ADJACENT |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AFS | ABOVE FINISHED SLAB |
| AGGR | AGGREGATE |
| AHU | AIR HANDLING UNIT |
| ALT | ALTERNATE, ALTERNATIVE |
| ALT NO | ALTERNATE NUMBER |
| ALUM | ALUMINUM |
| ANOD | ANODIZE |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECTURAL |
| AUTO | AUTOMATIC |
| AUX | AUXILIARY |
| AVE | AVENUE |
| AWT | ACOUSTICAL WALL TREATMENT |
| BD | BOARD |
| BEV | BEVEL |
| BF | BARRIER FREE |
| BFE | BOTTOM OF FOOTING ELEVATION |
| BLDG | BUILDING |
| BLK | BLOCK |
| BM | BENCH MARK |
| BO | BOTTOM OF |
| BOT | BOTTOM |
| BOW | BOTTOM OF WALL |
| B PL | BASE PLATE |
| BRCG | BRACING |
| BRG | BEARING |
| BRKT | BRACKET |
| BS | BOTH SIDES |
| BSMT | BASEMENT |
| BTWN | BETWEEN |
| C/C | CENTER TO CENTER |
| CAB | CABINET |
| CB | CATCH BASIN |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CEM | CEMENT |
| CEM PLAS | CEMENT PLASTER |
| CI | CAST IRON |
| CJ | CONTROL JOINT |
| CL | CENTER LINE |
| CLG | CEILING |
| CLR | CLEAR |
| CMU | CONCRETE MASONRY UNIT |
| CMP | CORRUGATED METAL PIPE |
| CO | CLEAN OUT |
| COL | COLUMN |
| CONC | CONCRETE |
| CONF | CONFERENCE |
| CONN | CONNECT/CONNECTION |
| CONT | CONTINUOUS |
| COORD | COORDINATE |
| CP | CONCRETE PIPE |
| CR | CARD READER |
| CT | CERAMIC TILE |
| CTR | CENTER |
| CU | CUBIC |
| CUH | CABINET UNIT HEATER |
| CW | CURTAIN WALL |
| DB | DECK BEARING |
| DBL | DOUBLE |
| DEG | DEGREE |
| DEPT | DEPARTMENT |
| DET | DETAIL |
| DF | DRINKING FOUNTAIN |
| DH | DOUBLE HUNG |
| DIA | DIAMETER |
| DIAG | DIAGONAL |
| DIM | DIMENSION |
| DL | DEAD LOAD |
| DN | DOWN |
| DPTN | DEMOUNTABLE PARTITION |
| DR | DOOR |
| DS | DOWNSPOUT |
| DVTL | DOVETAIL |
| DW | DISHWASHER |
| DWG | DRAWING |
| E | EAST |
| EA | EACH |
| EIFS | EXTERIOR INSULATION & FINISH SYSTEM |
| EL | ELEVATION |
| ELEC | ELECTRIC/ELECTRICAL |
| ELEV | ELEVATOR |
| EMER | EMERGENCY |
| ENCL | ENCLOSURE |
| ENGR | ENGINEER |
| EPDM | ETHYLENE PROPYLENE DIENE MONOMER |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EQUIV | EQUIVALENT |
| EW | EACH WAY |
| EWC | ELECTRIC WATER COOLER |
| EXC | EXCAVATION/EXCAVATE |
| EXH | EXHAUST |
| EXST | EXISTING |
| EXP | EXPANSION |
| EXT | EXTERIOR |

## General Standards Continued

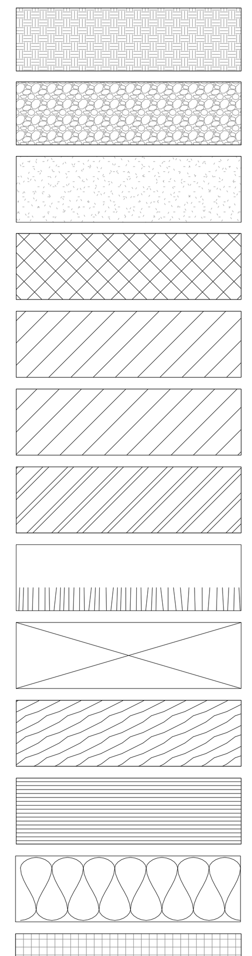
| | |
|---|---|
| FA | FIRE ALARM |
| FAB | FABRICATE |
| FD | FLOOR DRAIN |
| FE | FIRE EXTINGUISHER |
| FEC | FIRE EXTINGUISHER CABINET |
| FF | FINISH FACE |
| FH | FIRE HYDRANT |
| FIN | FINISH |
| FIN FLR | FINISH FLOOR |
| FIN GR | FINISH GRADE |
| FIXT | FIXTURE |
| FLR | FLOOR |
| FLR FIN | FLOOR FINISH |
| FLEX | FLEXIBLE |
| FOC | FACE OF CONCRETE |
| FOF | FACE OF FINISH |
| FOM | FACE OF MASONRY |
| FOS | FACE OF STUD/FACE OF SLAB |
| FR | FRAME |
| FR MIR | FRAMED MIRROR |
| FR MIR/SHF | FRAMED MIRROR AND SHELF |
| FSTNR | FASTENER |
| FT | FOOT/FEET |
| FTG | FOOTING |
| FURN | FURNITURE |
| FURG | FURRING |
| FWC | FABRIC WALL COVERING |
| GA | GAUGE |
| GALV | GALVANIZED |
| GALV STL | GALVANIZED STEEL |
| GB | GRAB BAR |
| GDR | GUARD RAIL |
| GL | GLASS |
| GL BLK | GLASS BLOCK |
| GLU LAM | GLUE LAMINATED WOOD |
| GR | GRADE/GRADING |
| GRTG | GRATING |
| GSB | GYPSUM SHEATHING BOARD |
| GWB | GYPSUM WALLBOARD |
| GYP | GYPSUM |
| GYP BD | GYPSUM BOARD |
| GYP PLAS | GYPSUM PLASTER |
| HB | HOSE BIB |
| HD | HEAD |
| HDR | HEADER |
| HDWD | HARDWOOD |
| HDW | HARDWARE |
| HEX | HEXAGONAL/HEXAGON |
| HM | HOLLOW METAL |
| HMD | HOLLOW METAL DOOR |
| HMF | HOLLOW METAL FRAME |
| HORIZ | HORIZONTAL |
| HP | HORSEPOWER |
| HPT | HIGH POINT |
| HR | HOUR |
| HT | HEIGHT |
| HTG | HEATING |
| HVAC | HEATING, VENTILATING, & AIR CONDITIONING |
| HYD | HYDRANT |
| ID | INSIDE DIAMETER |
| IF | INSIDE FACE |
| IGU | INSULATED GLAZING UNIT |
| IN | INCHES |
| INSUL | INSULATION |
| INSUL PNL | INSULATED METAL PANEL |
| INT | INTERIOR |
| INV | INVERT |
| INV EL | INVERT ELEVATION |
| IP | IRON PIPE |
| IPS | INSIDE PIPE SIZE |
| JST | JOIST |
| JT | JOINT |
| K | KIP |
| KIP FT | ONE THOUSAND FOOT POUNDS |
| KIT | KITCHEN |
| KO | KNOCKOUT |
| KOP | KNOCKOUT PANEL |
| KPL | KICK PLATE |
| LAB | LABORATORY |
| LAM | LAMINATE/LAMINATED |
| LAU | LAUNDRY |
| LAV | LAVATORY |
| LBS | POUNDS |
| LD BRG | LOAD BEARING |
| LF | LINEAR FEET (FOOT) |
| LG | LENGTH, LONG |
| LH | LEFT HAND |
| LHR | LEFT HAND REVERSE |
| LIN | LINEAR |
| LLH | LONG LEG HORIZONTAL |
| LLV | LONG LEG VERTICAL |
| LNTL | LINTEL |
| LT | LIGHT |
| LTG | LIGHTING |
| LT WT | LIGHTWEIGHT |
| LVR | LOUVER |
| LWC | LIGHTWEIGHT CONCRETE |
| MAINT | MAINTENANCE |
| MAS | MASONRY |
| MATL | MATERIAL |
| MAX | MAXIMUM |
| MBW | MASONRY BEARING WALL |
| MDO | MEDIUM DENSITY OVERLAY |
| MECH | MECHANICAL |
| MEMB | MEMBRANE |
| MEZZ | MEZZANINE |
| MIR | MIRRORED |
| MFR | MANUFACTURER |
| MHGT | MOUNTING HEIGHT |
| MIN | MINIMUM |
| MIRR | MIRROR |
| MISC | MISCELLANEOUS |
| MJ | MOVEMENT JOINT |
| MLWK | MILLWORK |
| MO | MASONRY OPENING |
| MTD | MOUNTED |
| MTL | METAL |
| MTP | METAL TOILET PARTITION |
| MULL | MULLION |
| MWP | MEMBRANE WATERPROOFING |
| N | NORTH |
| NA | NOT APPLICABLE |
| NE | NORTHEAST |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NOM | NOMINAL |
| NRC | NOISE REDUCTION COEFFICIENT |
| NTS | NOT TO SCALE |
| NW | NORTHWEST |
| O/O | OUT TO OUT |
| OF | OUTSIDE FACE |
| OA | OUTSIDE AIR |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OPH | OPPOSITE HAND |
| OPP | OPPOSITE |
| OVHD | OVERHEAD |
| OZ | OUNCE |
| PAR | PARALLEL |
| PB | PUSHBUTTON |
| PBD | PARTICLEBOARD |
| PERIM | PERIMETER |
| PERP | PERPENDICULAR |
| PERF | PERFORATED |
| PIV | POST INDICATOR VALVE |
| PL | PLATE |
| PL | PROPERTY LINE |
| PLAM | PLASTIC LAMINATE |
| PLAS | PLASTER |
| PLBG | PLUMBING |
| PLYWD | PLYWOOD |
| PMFS | PRE-MOLDED FILLER STRIP |
| PNL | PANEL |
| POL | POLISHED |
| PR | PAIR |
| PREFAB | PREFABRICATED |
| PREFIN | PREFINISHED |
| PROJ | PROJECT |
| PROP | PROPERTY |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PT | PAINT/POINT/POST TENSIONED/ PRESSURE TREATED |
| PTD | PAPER TOWEL DISPENSER |
| PTDR | PAPER TOWEL DISPENSER & RECEPTACLE |
| PTN | PARTITION |
| PTR | PAPER TOWEL RECEPTACLE |
| PVC | POLYVINYL CHLORIDE |
| PVMT | PAVEMENT |

## General Standards Continued

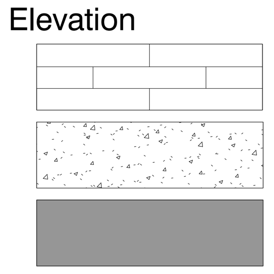
| | |
|---|---|
| QT | QUARRY TILE |
| QTB | QUARRY TILE BASE |
| QTF | QUARRY TILE FLOOR |
| QTY | QUANTITY |
| R | RADIUS |
| RA | RETURN AIR |
| RB | RESILIENT BASE |
| RC | REINFORCED CONCRETE |
| RCVR | RECEIVER |
| RECPT | RECEPTACLE |
| RD | ROOF DRAIN |
| REBAR | REINFORCING STEEL BARS |
| REC | RECESSED |
| RECT | RECTANGULAR |
| REF | REFERENCE |
| REINF | REINFORCING/REINFORCEMENT |
| REM | REMOVABLE |
| REQD | REQUIRED |
| RESIL | RESILIENT |
| RET | RETURN |
| REV | REVISE/REVISION |
| RF | RESILIENT FLOORING |
| RH | RIGHT HAND |
| RHR | RIGHT HAND REVERSE |
| RLG | RAILING |
| RM | ROOM |
| RND | ROUND |
| RO | ROUGH OPENING |
| S | SOUTH |
| SA | SUPPLY AIR |
| SAFB | SOUND ATTENUATION FIRE BLANKET |
| SAN | SANITARY |
| SC | SOLID CORE |
| SCHED | SCHEDULE/SCHEDULED |
| SCJ | SLAB CONTROL JOINT |
| SD | SOAP DISPENSER |
| SE | SOUTHEAST |
| SECT | SECTION |
| SFRM | SPRAY FIRE RESISTIVE MATERIAL |
| SHR | SHOWER |
| SHT | SHEET |
| SHTHG | SHEATHING |
| SIM | SIMILAR |
| SJ | SCORED JOINT |
| SOG | SLAB ON GRADE |
| SOMD | SLAB ON METAL DECK |
| SPEC | SPECIFICATION |
| SPKLR | SPRINKLER |
| SPKR | SPEAKER |
| SQ | SQUARE |
| SQ FT | SQUARE FOOT (FEET) |
| SQ IN | SQUARE INCH |
| SQ YD | SQUARE YARD |
| SS | STAINLESS STEEL |
| STAG | STAGGERED |
| STC | SOUND TRANSMISSION CLASSIFICATION |
| STD | STANDARD |
| STIF | STIFFENER |
| STL | STEEL |
| STL JST | STEEL JOIST |
| STL LNTL | STEEL LINTEL |
| STL PL | STEEL PLATE |
| STOR | STORAGE |
| STRUCT | STRUCTURAL/STRUCTURE |
| SUSP | SUSPEND/SUSPENDED |
| SUSP CLG | SUSPENDED CEILING |
| SW | SOUTHWEST |
| SYM | SYMMETRICAL |
| T | TREAD |
| T&B | TOP AND BOTTOM |
| TEL | TELEPHONE |
| TEMP | TEMPERATURE |
| TFF | TOP OF FINISH FLOOR |
| T&G | TONGUE AND GROOVE |
| THRES | THRESHOLD |
| TO | TOP OF |
| TOB | TOP OF BEAM |
| TOC | TOP OF CONCRETE |
| TOC | TOP OF CURB |
| TOF | TOP OF FOOTING |
| TOJ | TOP OF JOIST |
| TOPO | TOPOGRAPHY |
| TOSS | TOP OF SUSPENDED SLAB |
| TOS | TOP OF STEEL |
| TOW | TOP OF WALL |
| TV | TELEVISION |
| TYP | TYPICAL |
| UH | UNIT HEATER |
| UNEX | UNEXCAVATED |
| UNFIN | UNFINISHED |
| UON | UNLESS OTHERWISE NOTED |
| UTIL | UTILITY |
| V | VOLT |
| VB | VINYL BASE |
| VCT | VINYL COMPOSITION TILE |
| VIF | VERIFY IN FIELD |
| VR | VAPOR RETARDER |
| VERT | VERTICAL |
| VEST | VESTIBULE |
| VOL | VOLUME |
| VWC | VINYL WALL COVERING |
| W | WEST |
| W/O | WITHOUT |
| WBL | WOOD BLOCKING |
| WC | WATER CLOSET |
| WD | WOOD |
| WP | WEATHERPROOF |
| WPM | WATERPROOF MEMBRANE |
| WR | WATER RESISTANT |
| WSCT | WAINSCOT |
| WT | WEIGHT |
| WWF | WELDED WIRE FABRIC |
| YD | YARD DRAIN |

## Materials Legend

### Section




### Elevation

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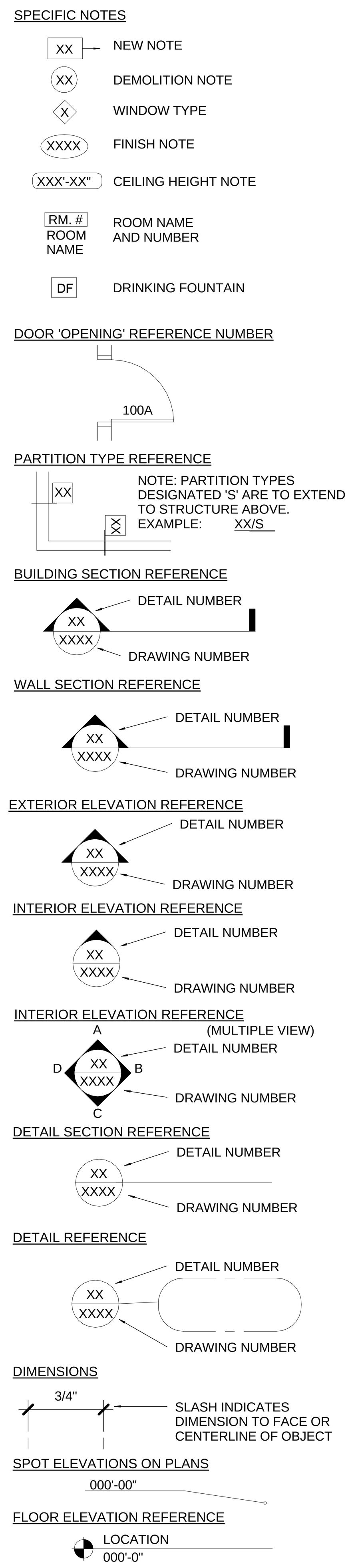
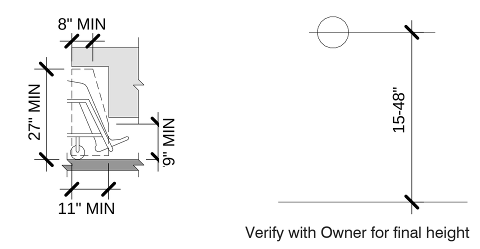



## Mounting Heights

**NOTES:**

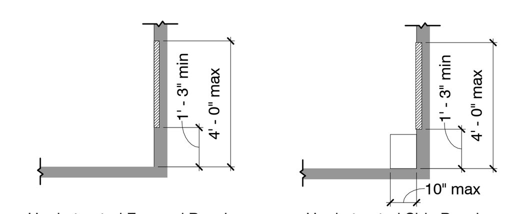
1. See enlarged drawings and specifications for accessory designations and locations.
2. Mounting height drawings below are not to scale.
3. See Plumbing Drawings/Specs for types of plumbing fixtures.

### ADA Knee Clearance and Push Button




Verify with Owner for final height

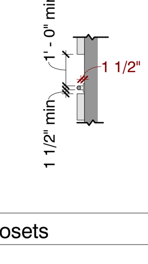
### Reach Ranges



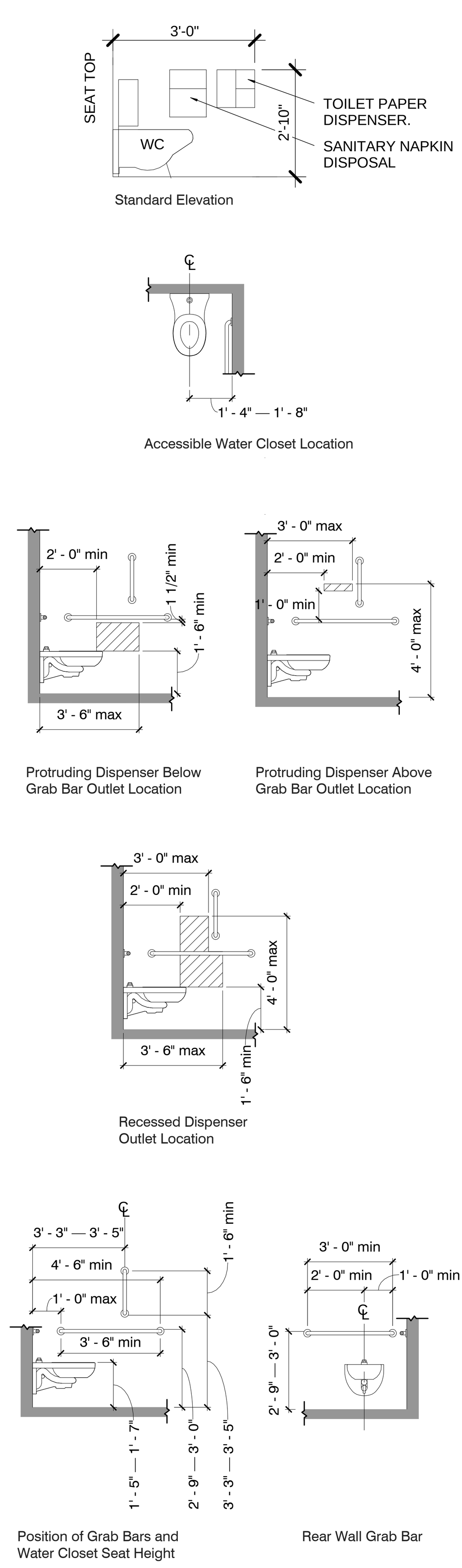

Unobstructed Forward Reach

Unobstructed Side Reach

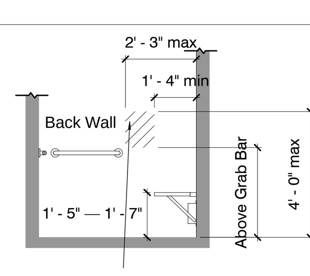
### Spacing of Grab Bars




### Adult Water Closets



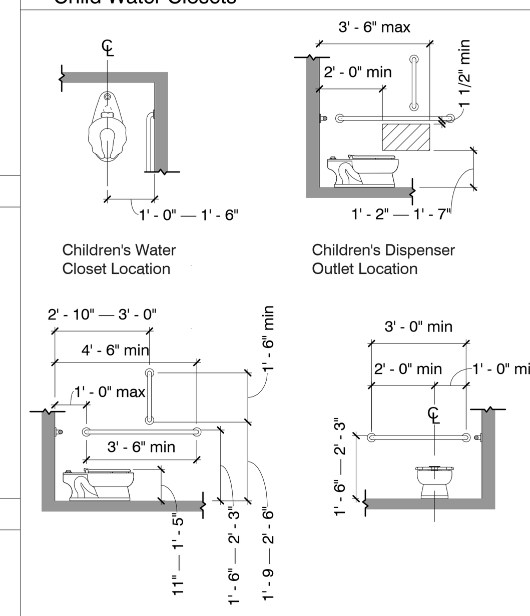

### Shower



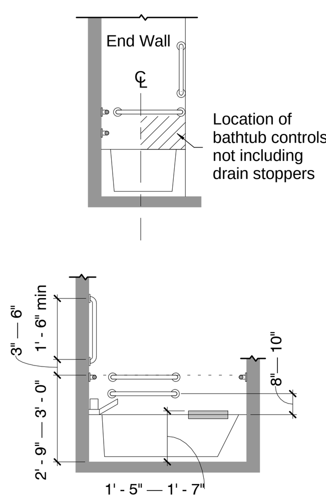

Standard Roll-In-Type Shower Control and Handshower Location

## Mounting Heights

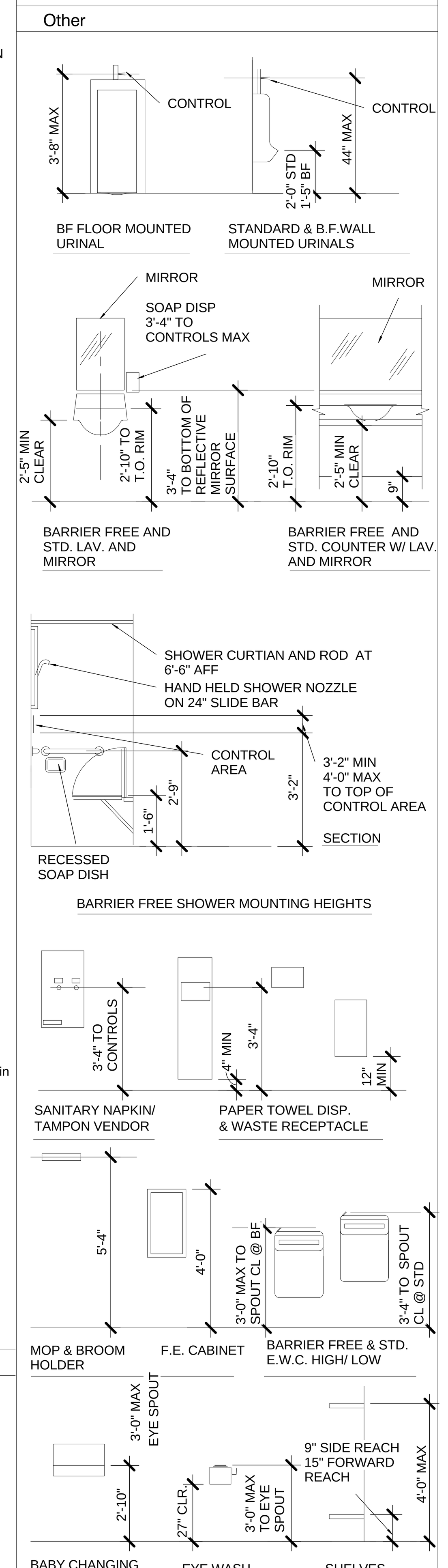
### Child Water Closets




### Bathtub

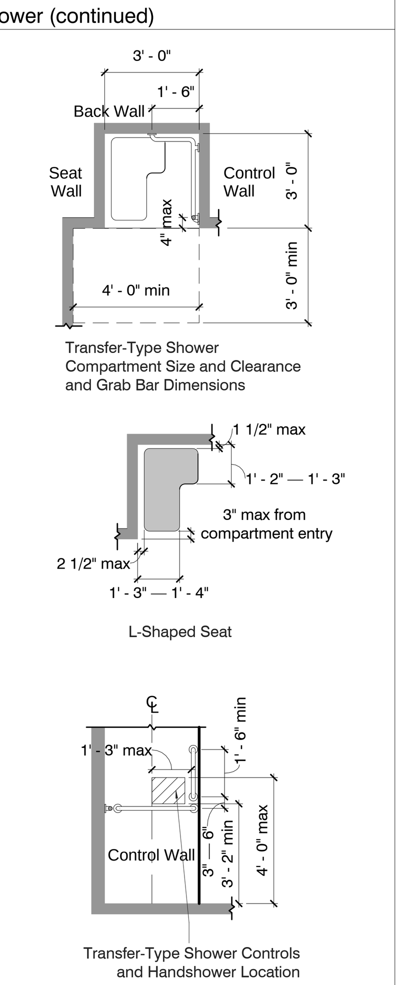



### Other




## Mounting Heights

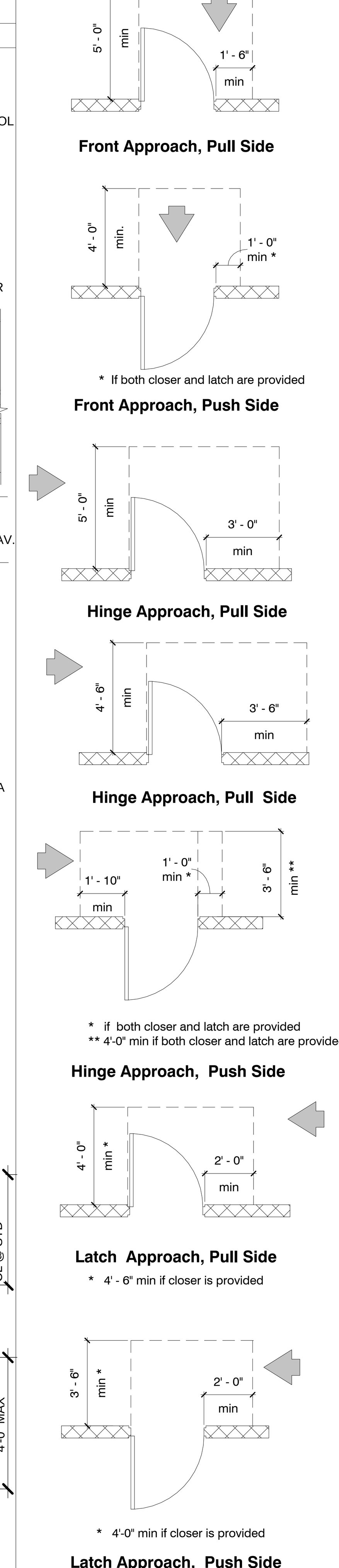
### Shower (continued)




### Electrical Devices

Refer to Electrical for all electrical devices including push buttons, switches, and outlets.

## Maneuvering Clearances At Doors




## General Project Notes

1. ALL WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF APPLICABLE EDITIONS OF ALL LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES INCLUDING BUT NOT LIMITED TO BUILDING CODES, ELECTRICAL CODES, PLUMBING CODES, MECHANICAL CODES, ENERGY CODES, FIRE CODES, SAFETY CODES, AND DISABLED ACCESS CODES.

2. THE CONTRACTOR SHALL VERIFY AND COORDINATE LAYOUT DIMENSIONS INDICATED ON THE STRUCTURAL, ELECTRICAL, PLUMBING AND MECHANICAL DRAWINGS WITH THESE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

3. IN THE EVENT CERTAIN FEATURES OF THE NEW CONSTRUCTION ARE NOT FULLY SHOWN IN THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE DETAILED, MARKED, OR SPECIFIED.

4. DETAILS AND NOTES APPEARING ON ONE DRAWING SHALL APPLY TO ALL OTHER DRAWINGS WHERE SIMILAR CONDITIONS EXIST WHETHER OR NOT NOTED OR DETAILED.

5. PROVIDE DESIGN NUMBER AS INDICATED ON THE DRAWINGS OR APPROVED EQUAL FOR ALL FIRE-RATED CEILING/FLOOR, ROOF, WALL AND STRUCTURAL FRAME ASSEMBLIES. THE COMPONENTS AND INSTALLATION DETAILS SUCH AS NAILING SCHEDULES SHALL BE SHOWN ON PLANS AND MUST CONFORM IN EVERY PARTICULAR WITH THE DESIGN NUMBER SPECIFIED. CUSTOM DESIGNS WHICH COMBINE COMPONENTS FROM DIFFERENT APPROVED DESIGN BUT HAVE NOT BEEN TESTED AS A COMPLETE ASSEMBLY WILL NOT BE ACCEPTABLE.

6. ALL WALL, FLOOR AND CEILING PENETRATIONS ARE TO BE SEALED WHETHER OR NOT SPECIFICALLY SHOWN OR DETAILED.

7. DO NOT SCALE THE DRAWINGS. USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS. CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR TO FINISH FACE OF CEILING.

8. DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED CONSTRUCTION UNLESS NOTED OTHERWISE, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION.

10. NO DEVIATION FROM THE APPROVED DRAWINGS AND SPECIFICATIONS IS PERMITTED WITHOUT THE PRIOR CONSENT OF THE ARCHITECT. THE ARCHITECT'S INTERPRETATION OF THESE DOCUMENTS SHALL BE FINAL.

11. LARGER SCALE DRAWINGS GOVERN IN CASE OF CONFLICT WITH SMALLER SCALE DRAWINGS.

12. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, SPECIFICATIONS, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH THE WORK.

13. ALL PITCHED FLOOR AREAS SHOWN WITH PITCH LINES SHALL SLOPE AT 1/4"/FT. UNLESS OTHERWISE INDICATED. PROVIDE A SLAB DEPRESSION AT ALL FLOOR DRAINS WHERE PITCH LINES ARE SHOWN ON PLANS

14. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE UNLESS OTHERWISE INDICATED.

15. WHERE DOORS OCCUR IN PARTITIONS WITHOUT DIMENSIONS, SEE THE DOOR FRAME DETAILS TO DETERMINE THE EXACT LOCATION OF THE DOOR

16. GENERAL CONTRACTOR SHALL PROVIDE STIFFENERS, BRACING, BACKING PLATES, AND SUPPORTING BRACKETS REQUIRED FOR THE PROPER INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSOREIES, TOILET PARTITIONS, AND OTHER SIMILAR. SEE DIVISION 09 SPECIFICATIONS FOR REQUIREMENTS.

17. GENERAL CONTRACTOR IS REPONSIBLE FOR COORDINATING THE FULL SCOPE OF WORK FOR EACH AND ALL TRADES EVEN IF THE DESCRIPTION OF WORK IS INDICATED IN LIMITED DRAWINGS AND OR SPECIFICATIONS.

CONSTRUCTION DOCUMENTS

THESE CONSTRUCTION DRAWING INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN CONCEPTS, THE DIMENSIONS OF THE BUILDING, THE MAJOR ARCHITECTURAL ELEMENTS AND THE TYPE OF STRUCTURAL MECHANICAL, AND ELECTRICALSYSTEMS. THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR PROPER EXECUTION AND COMPLETION OF THE WORK. DECISIONS OF THE ARCHITECT AS TO THE ITEMS OF WORK INCLUDED WITH INTHE SCOPE OF THIS DOCUMENT SHALL BE FINAL AND BINDING ON THE CONTRACTOR AND OWNER.

LIMITATION OF WARRANTY

THE ARCHITECT AND HIS CONSULTANTS DO NOT WARRANT OR GUARANTEE THE ACCURACY AND COMPLETENESS OF THE WORK PRODUCT HEREIN BEYOND A REASONABLE DILEGENCE. IF ANY MISTAKES, OMMISSIONS, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE WORK PRODUCT, THE ARCHITECT SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFY THE ARCHITECT OF SUCH CONDITIONS SHALL ABSOLVE THE ARCHITECT FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH FAILURE. ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND CONSENT OF THE ARCHITECT OR IN CONTRADICTION TO THE ARCHITECT'S WORK PRODUCT OR RECOMMENDATIONS, SHALL BECOME THE RESPONSIBILITY NOT OF THE ARCHITECT BUT THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION.

## General Architectural Notes

WALLS AND PARTITIONS

1. Unless otherwise noted, dimensions are to face of interior studs.
2. All partition framing and gyp. bd. shall extend from floor to structure above unless otherwise noted.

DOORS AND FRAMES

1. Where labeled doors are scheduled, provide labels on doors and frames.
2. Caulk around metal frames unless noted otherwise.
3. Hollow metal frames in masonry walls shall be filled with grout.
4. Spot grout all hollow metal frames in accordance with USG Gypsum Construction Handbook.


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434


Project Number: 2014-07

CONSULTANTS

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|---|---|
| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
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SHEET DATA

Drawn By: Bob
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

DFCM # 14190230

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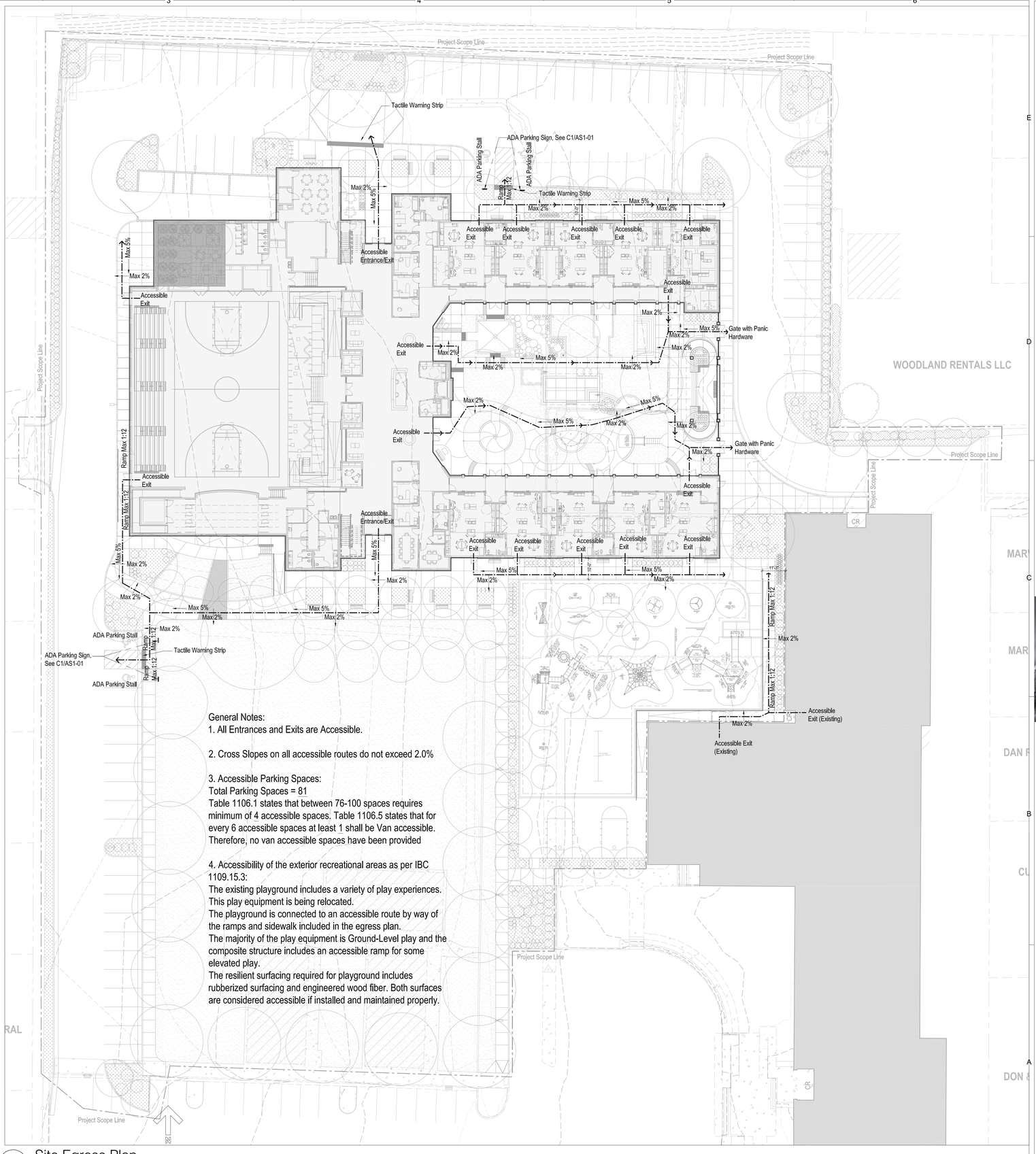
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Abbreviations Symbols and Notes

GI0-04




A2 Site Egress Plan
1" = 20'-0"

DESIGN TEAM

JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

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PROJECT

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Construction Documents

Site Egress Plan

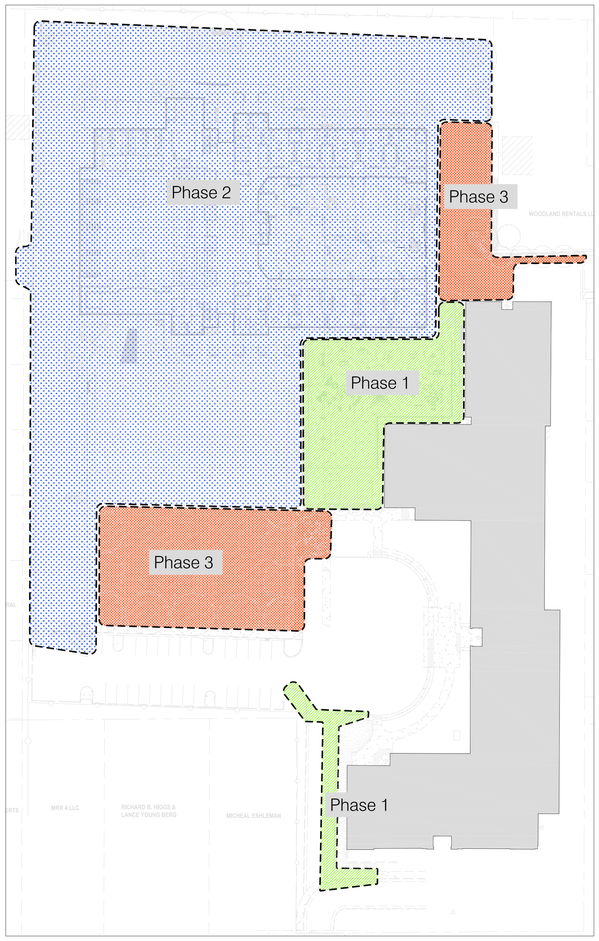
GI1-01

## Construction Phasing:

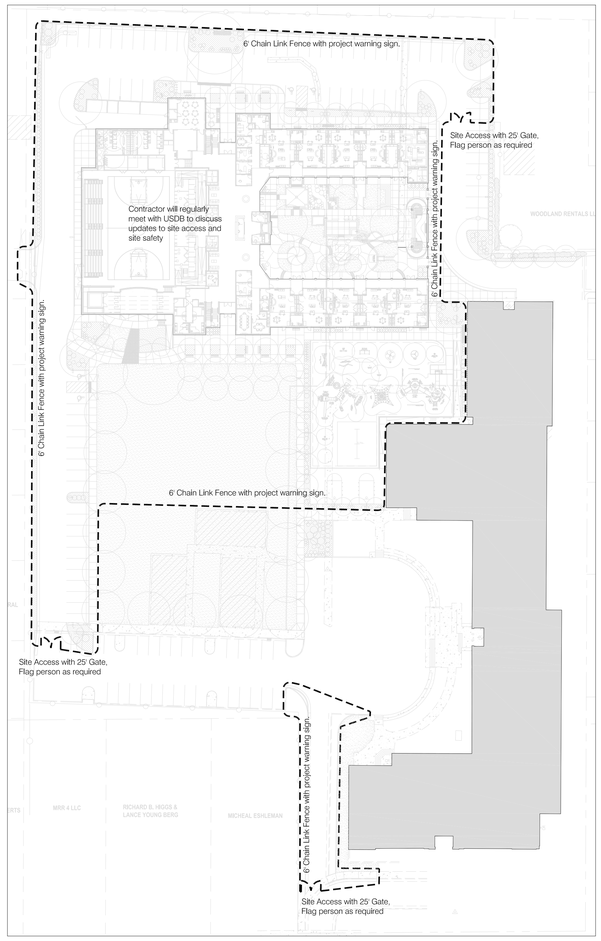
**Phase 1**
- -Initiate utilities: Water, Sewer, Stormwater,
- -Relocate playground
- -Re-route sewer line installed for temporary trailers
- -Widen south lane

**Phase 2**
- -Complete utilities
- -Building and hardscaping
- -Easement to east property owner

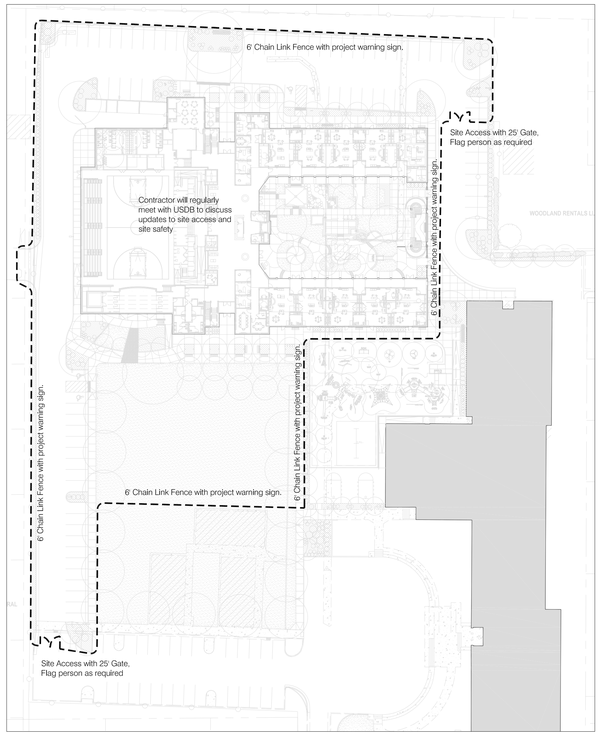
**Phase 3**
- -East side parking lot
- -Complete sitework east of building
- -Remove trailers
- -Landscaping & irrigation within entire project scope line



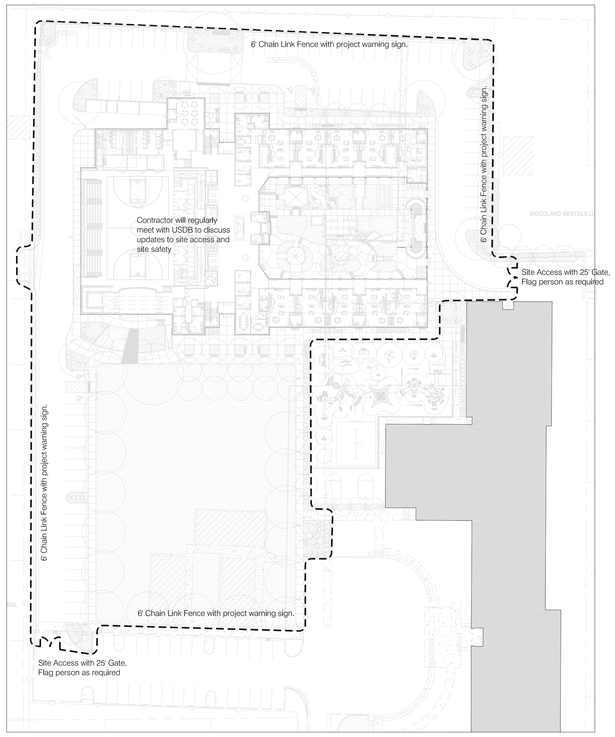

A1 Construction Phasing Plan
1" = 50'-0"




A3 Phase 1
Pedestrian Protection Plan
1" = 50'-0"




C5 Phase 2
Pedestrian Protection Plan
1" = 50'-0"




A5 Phase 3
Pedestrian Protection Plan
1" = 50'-0"

DESIGN TEAM

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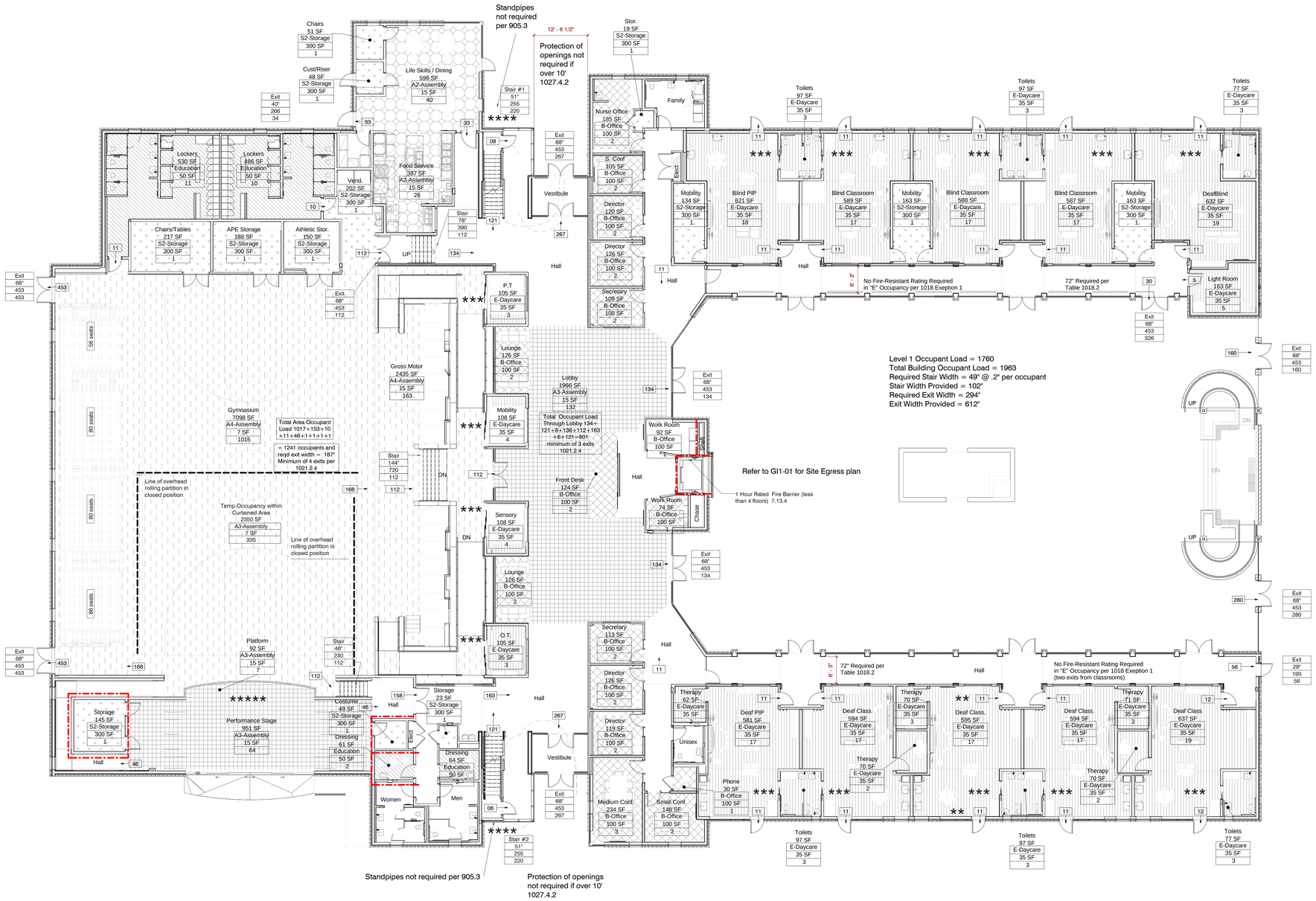
Pedestrian Protection & Phasing Plan

GI1-02




Standpipes not required per 905.3

Protection of openings not required if over 10' 1027.4.2

***** Stage and Platform Area:

Per 410.3.5, Proscenium Wall not required to be rated since stage area is less than 50' high

Per 410.3.7 Stage ventilation is not required since Stage area is less than 1000 s.f.

Permanent Platform floor meets 1-hr rated requirement because constructed from 6" concrete slab

Per 410.5, 1- hr separation is required between Stage and appurtenant spaces.

**** Non-Enclosed Stair Between Level One and Two per: 1009.3 Exception 1

Stair is Enclosed between Level One and Basement

*** Sliding Door OK per: 1008.1.2 Exception 9 (>10 occupants)

** Two Exits per 1015.6

Room Name
Area sf.

Room Tag: IBC Occupancy | Occ. Factor /sf. | Occ. Load

Stair Tag: Stair # | Actual Width | Capacity | Act. Load — @ 0.2" per person 1005.3.1

Exit Tag: Exit # | Actual Width | Capacity | Act. Load — @ 0.15" per person

2 Hour rating

1 Hour rating

Legend

A1 LEVEL 1 Code Plan
3/32" = 1'-0"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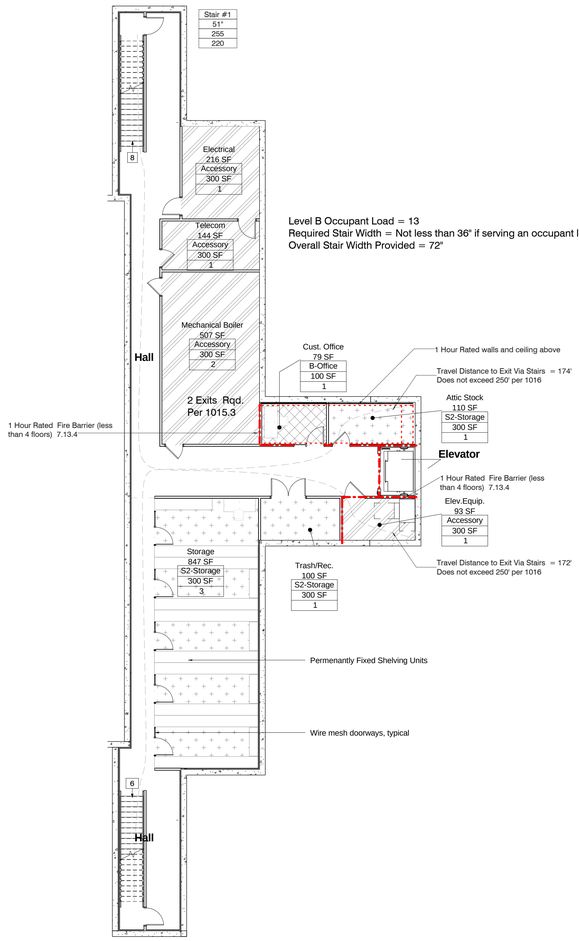
Construction Documents

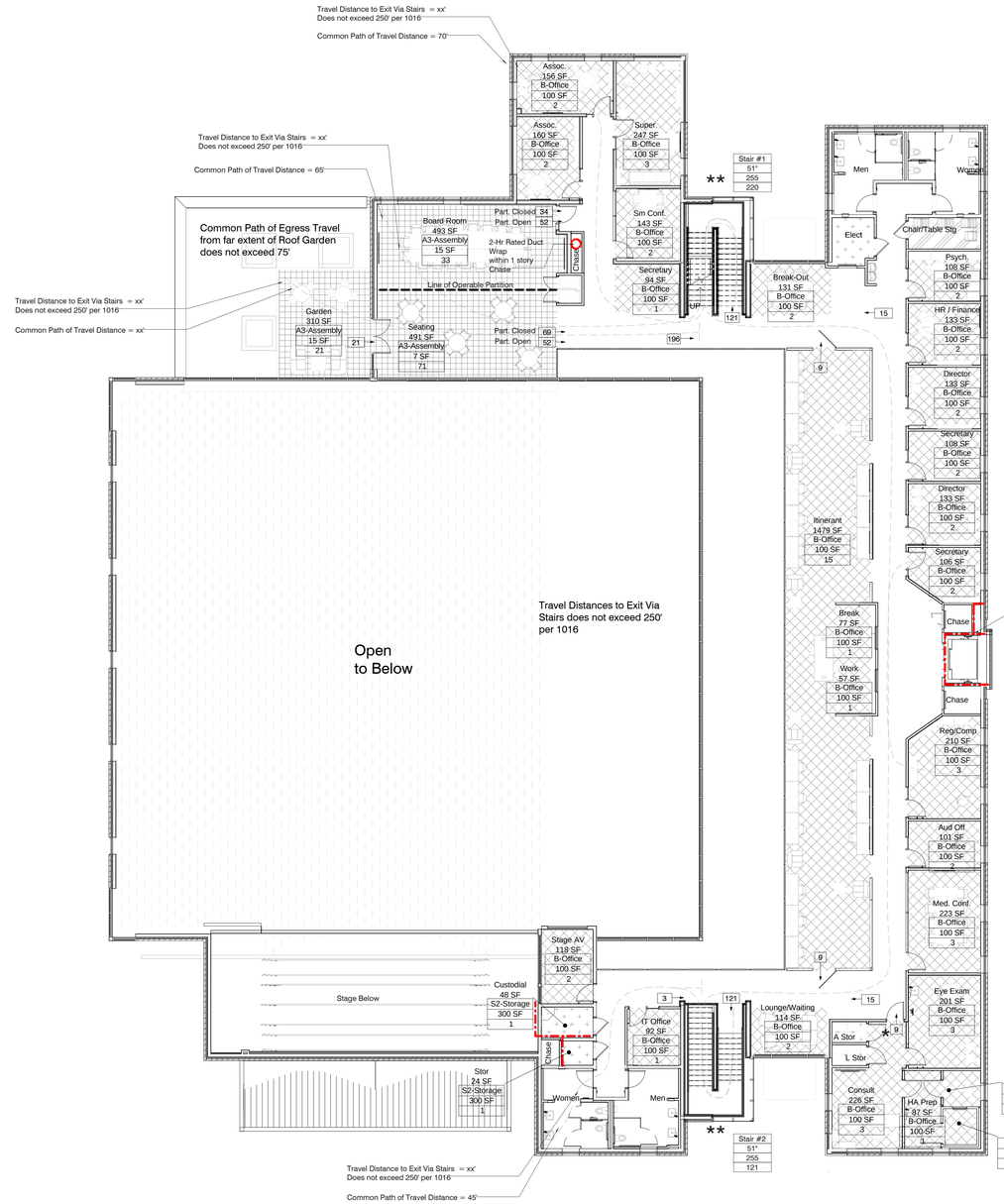
Level 1 Code Plan

GI1-11




Level B Occupant Load = 13
Required Stair Width = Not less than 36" if serving an occupant load less than 50
Overall Stair Width Provided = 72"

A1 Level B Code Plan
3/32" = 1'-0"




Level 2 Occupant Load = 242
Required Stair Width = 49" @ .2" per occupant
Stair Width Provided = 102

** Non-enclosed stair OK
Per 1009.3
Exception 1

* Exit Thru Interstitial Space OK
Per 1014.2

A3 LEVEL 2 Code Plan
3/32" = 1'-0"

Room Name
Area sf.
IBC Occupancy
Occ. Factor /sf.
Occ. Load
Room Tag

Stair #
Actual Width
Capacity
Act. Load
Stair Tag
@ 0.2" per person
1005.3.1

Exit #
Actual Width
Capacity
Act. Load
Exit Tag
@ 0.15" per person

2 Hour rating
1 Hour rating

Legend


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


## CONSULTANTS

| | |
|---|---|
| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrzewski Designs - 801.582.9747 |

## STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT

## COPYRIGHT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## SHEET DATA

Drawn By: Bob
Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

## ADDENDA

| Revision | Date |
|---|---|

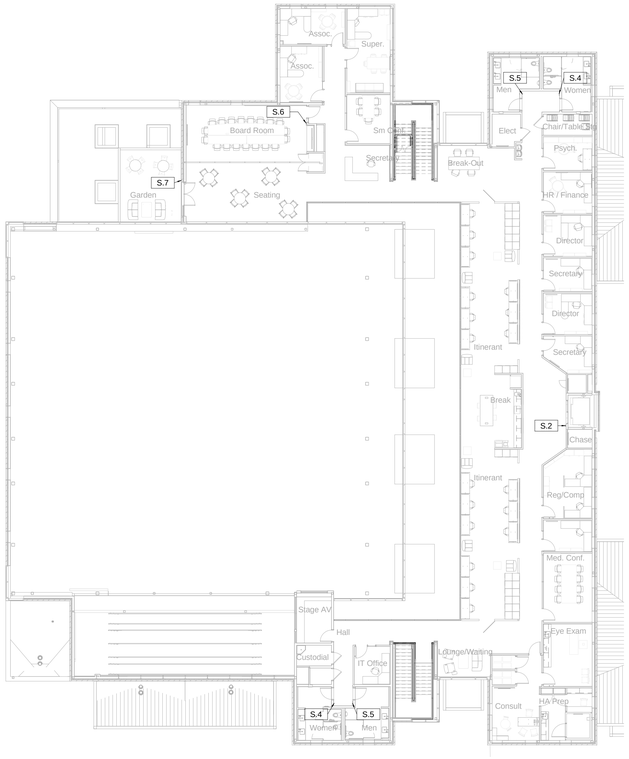
## ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

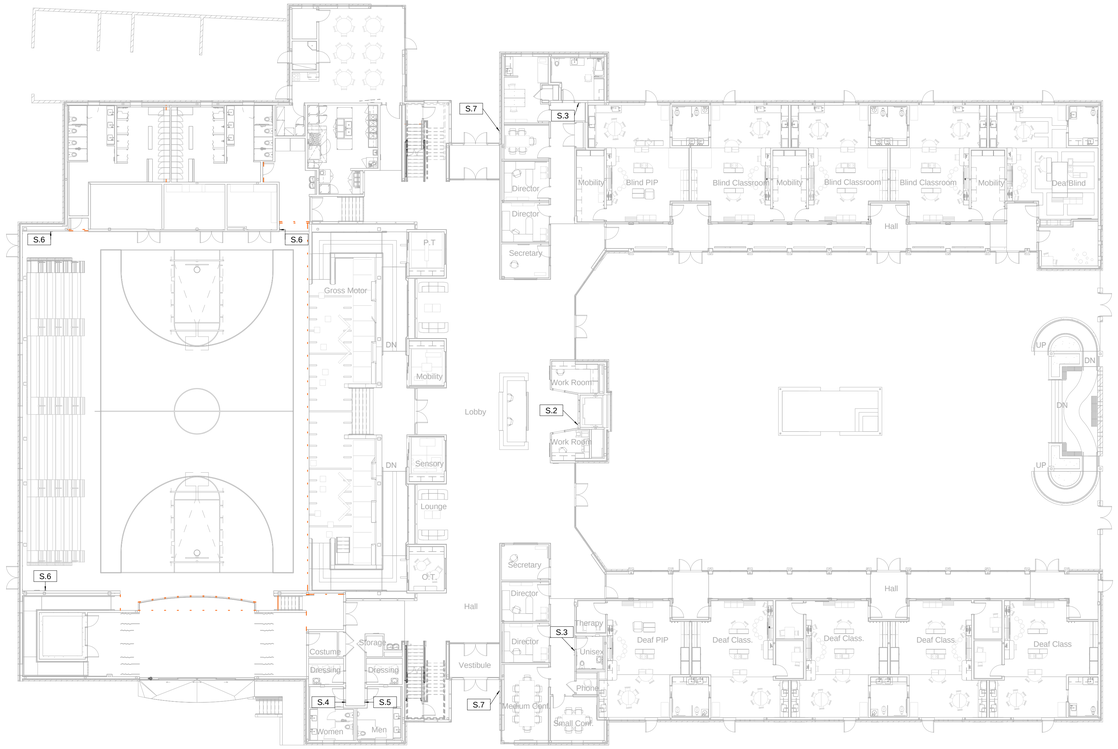
Construction Documents

Level B Code Plan
Level 2 Code Plan

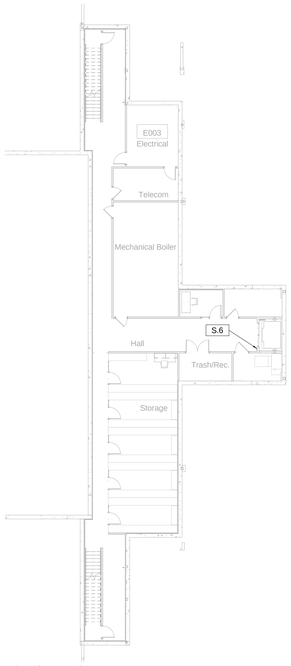
GI1-12



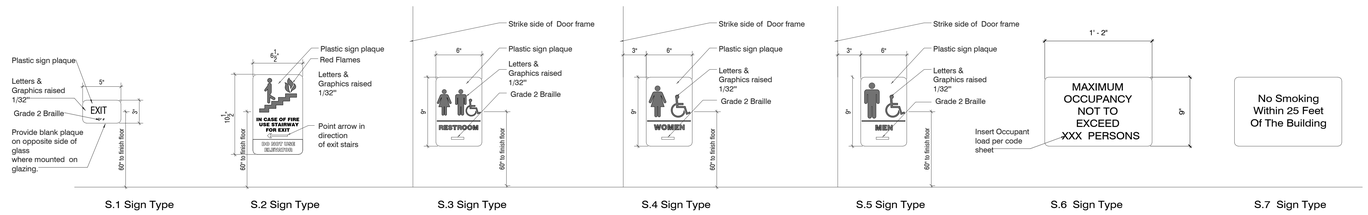

C1 Level 2 Signage Plan
1/16" = 1'-0"




C3 Level 1 Signage Plan
1/16" = 1'-0"




A1 Level B Signage Plan
1/16" = 1'-0"




S.1 Sign Type | S.2 Sign Type | S.3 Sign Type | S.4 Sign Type | S.5 Sign Type | S.6 Sign Type | S.7 Sign Type

A3 Sign Types
1 1/2" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
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801 363 1434
Project Number: 2014-07


CONSULTANTS

| | |
|---|---|
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SHEET DATA

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| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Signage Plans

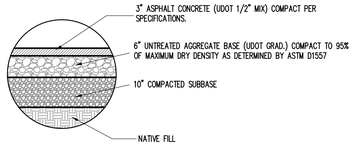
GI1-21

SPECIAL PROJECT NOTE

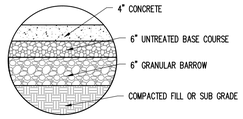
ALL CONSTRUCTION ACTIVITY FOR SITE WATER LINES SHALL CONFIRM TO SALT LAKE CITY STANDARDS AND SEWER LINES SHALL CONFORM TO MOUNTAIN OLYMPUS SEWER DISTRICT STANDARD PLANS AND "APWA MANUAL OF STANDARD PLANS" (LATEST EDITION) AND THE DEVELOPMENT GUIDELINES AND SPECIFICATIONS. CONTRACTOR SHALL OBTAIN COPIES OF SAID CITY, DISTRICT AND APWA STANDARDS, AND STANDARDS PRIOR TO CONSTRUCTION.

## GENERAL NOTES

1. ANY MODIFICATION TO THIS CONSTRUCTION PACKAGE OR TO THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE ENGINEER. PRIOR TO SAID APPROVAL, ALL IMPROVEMENT DRAWINGS SHALL BE RESUBMITTED AND APPROVED BY THE CITY ENGINEER.
2. THE CONTRACTOR SHALL LOCATE, RETAIN AND PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. EXISTING GAS, TELEPHONE, POWER, OR WATERLINES WHICH MUST BE RELOCATED OR LOWERED FOR NEW GRAVITY LINES WILL BE COMPLETED BY THE CONTRACTOR TO THE UTILITY COMPANY SPECIFICATIONS AND STANDARDS.
3. EXCESS TOPSOIL SHALL BE REMOVED AND STORED AT AN OFFSITE LOCATION AS INDICATED ON THE LANDSCAPE PLANS. SUITABLE MATERIAL IS DEFINED IN THE PROJECT GEOTECHNICAL REPORT PREPARED BY FOR THIS PROJECT AS WELL AS CITY EARTHWORK SPECIFICATIONS. ALL EARTHWORK SHALL BE COMPLIANT WITH THESE DOCUMENTS. IF CITY SPECIFICATIONS THE GEOTECHNICAL REPORT CONFLICT REFER TO THE CITY ENGINEER FOR DIRECTION ON WHICH REQUIREMENTS MUST BE FOLLOWED IN THE FIELD.
4. TRACER TAPE SHOULD BE PLACED ABOVE ALL SEWER AND WATER AND SECONDARY WATER LINES PER CITY STANDARD SPECIFICATIONS.
5. ALL EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL NOTIFY BLUE STAKES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION. CONTRACTOR SHALL POTHOLE AND FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL UTILITY CONFLICTS UPON DISCOVERY.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER BACKFILLING, COMPACTING, AND PAVEMENT RESTORATION WHERE NECESSARY TO INSTALL NEW UTILITIES OR NEW IMPROVEMENTS PER CITY STANDARDS IN EXISTING ROADWAYS.
7. CONTRACTOR SHALL PROVIDE CITY INSPECTOR WITH CONSTRUCTION SCHEDULE AFTER SAID SCHEDULE HAS BEEN APPROVED BY ENGINEER AND OWNER.
8. REFER TO THE ARCHITECTURAL SITE PLAN FOR ALL SITE DETAILS AND LAYOUT FOR SIDEWALKS, CURB, CURB AND GUTTER AND WALLS.
9. ALL SEWER LINES ON THE PROPERTY INCLUDING THE BUILDING SEWER LATERAL SHALL BE RETAINED AND PROTECTED.
10. THE CONTRACTOR SHALL INSTALL ALL STORM DRAIN, AND LAND DRAIN LINES PRIOR TO INSTALLING ANY WATER SYSTEM IMPROVEMENTS. LOWER WATER MAINS OR LATERALS BELOW NORMAL DEPTH AS REQUIRED TO AVOID GRAVITY STORM DRAIN OR SERVICE LINES. PROVIDE CLEARANCES AS OUTLINED IN THE MIDVALE CITY STANDARD DETAILS.
11. A WATER SERVICE LINE SHALL BE INSTALLED AS INDICATED AND SHALL MEET SALT LAKE CITY AND APWA STANDARD DETAILS.
12. ALL STREET LIGHTING, WATER AND STORM DRAIN PIPING SHALL MEET SALT LAKE COUNTY STANDARD SPECIFICATIONS.
13. CONTRACTOR SHALL COORDINATE CONSTRUCTION AND INSTALLATION OF ELECTRICAL, TELEPHONE, NATURAL GAS AND SERVICES WITH THE UTILITY COMPANY. OWNER SHALL PAY ALL ASSOCIATED UTILITY COMPANY FEES.
14. CONTRACTOR SHALL PROVIDE THRUST BLOCKING FOR ALL WATER LINE FITTINGS PER APWA AND SALT LAKE CITY STD. DETAILS.
15. CONTRACTOR TO PROVIDE ELECTRICAL & TELEPHONE LINE TRENCHING AND BACKFILL. COORDINATE LOCATIONS WITH POWER AND TELEPHONE COMPANIES.
16. WATER VALVES, STORM DRAIN INLETS OR CLEANOUTS BOXES, AND OTHER SURFACE UTILITY APPARATUSES SHALL BE RAISED TO ACCURATE FINISH SURFACE BY A CONCRETE GRADE COLLAR. THE CONCRETE COLLAR WILL EXTEND 12" MINIMUM AROUND THE UTILITY APPARATUSES WITH A 10" MINIMUM THICKNESS. PLACE 2-#4 HOOPS IN CONCRETE COLLAR. SEE DETAIL ON THIS SHEET C101.
17. CONTRACTOR TO KEEP A SET OF PLANS ON WHICH ALL CHANGES HAVE BEEN CLEARLY SHOWN. THIS SET OF REDLINES SHALL BE TURNED INTO SALT LAKE COUNTY.
18. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED, AND THOROUGHLY REVIEWED, ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST AND EROSION CONTROL, CLEANING STREET AND OTHER SWPPP REGULATIONS.
20. ALL EXISTING ASPHALT TO REMAIN SHALL BE SAW CUT IN NEAT, STRAIGHT LINES BY THE CONTRACTOR PRIOR TO EXCAVATION.
21. NO CHANGE IN DESIGN LOCATION OR GRADE WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE OWNER AND ENGINEER.
22. CONTRACTOR SHALL NOT ALLOW ANY GROUND WATER, SURFACE WATER, ANIMALS, OR DEBRIS TO ENTER NEW PIPING DURING CONSTRUCTION.
23. CONTRACTOR SHALL TAKE NECESSARY MEASURES TO PROTECT ALL NEW FACILITIES DURING THE CONSTRUCTION PERIOD UNTIL THE DESIGN GRADE AND COVER HAVE BEEN REACHED AND WORK HAS BEEN ACCEPTED BY OWNER.
24. CONTRACTOR IS TO REMAIN WITHIN THE CONTRACT LIMITS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT SURFACE IMPROVEMENTS DURING CONSTRUCTION.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY SETTLEMENT OF, OR DAMAGE TO, EXISTING AND NEW UTILITIES AND FACILITIES.

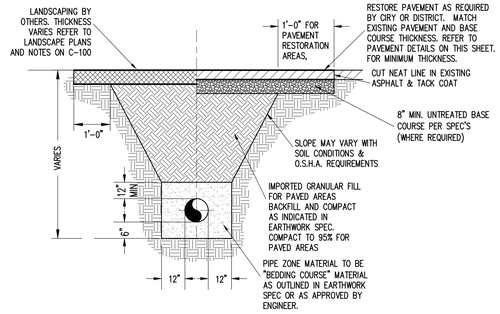



ASPHALT PAVEMENT SECTION (A)
N.T.S.

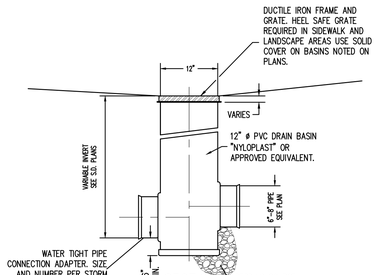



NOTES:
1. USE FOR DUMPSTER PADS AND OTHER CONCRETE PAVING THAT HAS VEHICLE TRAFFIC.
2. SCARIFY AND RECOMPACT THE UPPER 8" OF NATURAL SUBGRADE TO 95% PER ASTM D1557.
3. SEALED CONTRACTION JOINTS TO BE 1½" DEEP. JOINT PATTERN AS OUTLINED ON PLANS. SLEAED EXPANSION JOINTS ARE ALSO REQUIRED AT BUILDING, CURBS, OR OTHER STRUCTURES AND AT 50' INTERVALS.

CONCRETE PAVEMENT SECTION (B)
N.T.S.




TYPICAL TRENCH AND SURFACE REPAIR (C)
N.T.S.

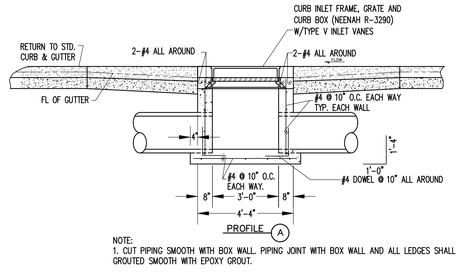



SECTION

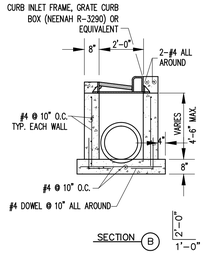
| ADAPTER SIZE | 18" BASIN MIN. HORIZ. ANGLE BETWEEN ADAPTERS |
|---|---|
| 4"–6" | 55° |
| 6"–6" | 65° |
| 6"–8" | 75° |
| 8"–8" | 80° |

NOTE:
1. USE H-10 GRATES AND FRAMES FOR 18" ø COVERS.
2. CONSTRUCT BASINS PER MANUFACTURES REQUIREMENTS.

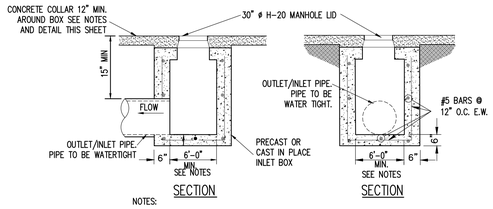
12" AREA DRAIN (D)
N.T.S.




NOTE:
1. CUT PIPING SMOOTH WITH BOX WALL. PIPING JOINT WITH BOX WALL AND ALL LEDGES SHALL GROUTED SMOOTH WITH EPOXY GROUT.

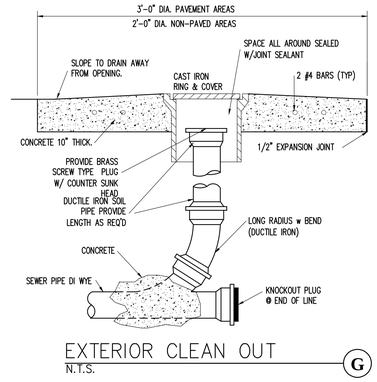



CURB BASIN (CB) (E)
N.T.S.

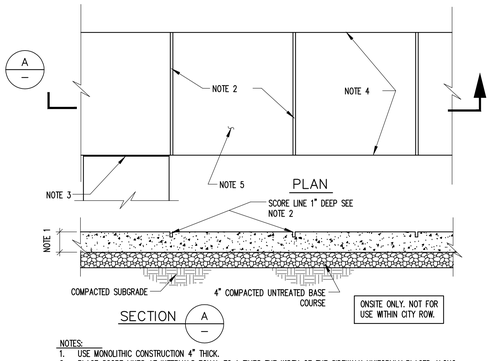



NOTES:
1. CUT PIPING SMOOTH WITH BOX WALL. PIPING JOINT WITH BOX WALL AND ALL LEDGES SHALL GROUTED SMOOTH WITH EPOXY GROUT.
2. USE SOLID COVER FOR CLEAN OUT BOXES.

DETENSION BASIN CLEAN OUT BOX (F)

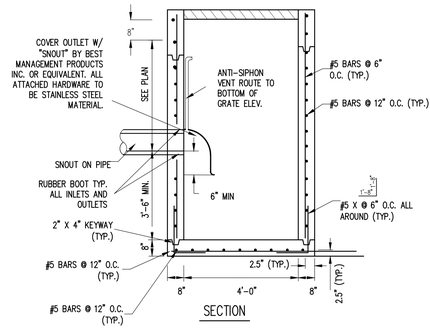


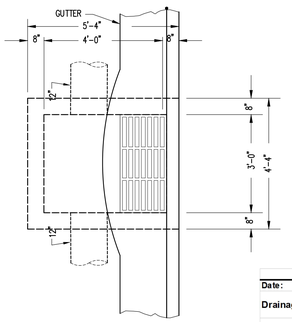

EXTERIOR CLEAN OUT (G)
N.T.S.




NOTES:
1. USE MONOLITHIC CONSTRUCTION 4" THICK.
2. PLACE SCORE LINES AT INTERVALS EQUAL TO 1 TIMES THE WIDTH OF THE SIDEWALK UNIFORMLY PLACED ALONG LENGTH OF SIDEWALK.
3. USE 1/2" EXPANSION JOINT FILLER MADE OF PREMOLDED BITUMINOUS OR SIMILAR MATERIAL AT INTERSECTIONS WITH PERPENDICULAR SIDEWALKS.
4. EDGE SIDEWALK WITH 1/2" RADIUS EDGING TOOL. ROUND EDGES AT EXPANSION JOINTS TO A RADIUS OF 1/2".
5. USE HAIR-BROOM BRUSH TO FINISH SIDEWALKS.
6. MATERIALS, CONSTRUCTION, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

SIDEWALK SECTION (H)




PRETREATMENT INLET NOTES:
1. PRECAST BOXES DESIGNED FOR HS-20 TRAFFIC LOAD PRECAST BOX DIMENSIONS MAY VARY. SUBMIT DIMENSIONS AND DESIGN FOR APPROVAL.
2. CONCRETE 4000 PSI 28-DAY COMPRESSIVE STRENGTH.
3. STEEL GRADE 60 DEFORMED BARS.
4. ALL SCREENS, STRAPS, BELTS AND MISC. HARDWARE CONNECTING THE STAINLESS STEEL SCREEN SHALL BE CONSTRUCTED OF STAINLESS STEEL.

PRETREATMENT INLET (I)
N.T.S.

| Date: | 29-Jan-15 | | | | |
|---|---|---|---|---|---|
| Drainage calculations for : | USDB NEW BUILDING | | | | |
| | 100 yr Storm Calcs | | | | |
| Location: | SLC, UT | | | | |
| Allowable Release Rate | 0.408 | cfs (3.6"/hr) | 4900 | Infiltration Area | |
| Total Area | 3.17 | Ac. | 138150 | sf | |
| | | | Runoff Coefficients | | |
| Paved Area: | 60227 | SF | C= 0.9 | | |
| Landscape Area: | 42838 | SF | C= 0.2 | | |
| Roof Area: | 35085 | SF | C= 0.85 | | |
| Other | | SF | C= 0.15 | | |
| TOTAL AREA | 138150 | SF | Weighted C 0.67 | | |

| Lapsed Time Minutes | Accum. Rainfall Inches (100 yr) | "CA" Acre | Total Runoff Vol. CF | Discharge CF | Req'd Storage CF |
|---|---|---|---|---|---|
| 15 | 1.04 | 2.13 | 7959 | 368 | 7591 |
| 30 | 1.41 | 2.13 | 10790 | 735 | 10055 |
| 60 | 1.74 | 2.13 | 13315 | 1470 | 11845 |
| 120 | 1.91 | 2.13 | 14616 | 2940 | 11676 |
| 180 | 1.94 | 2.13 | 14846 | 4410 | 10436 |
| 360 | 2.09 | 2.13 | 15994 | 8820 | 7174 |
| 720 | 2.51 | 2.13 | 19208 | 17640 | 1568 |
| 1440 | 2.72 | 2.13 | 20815 | 35280 | 0 |

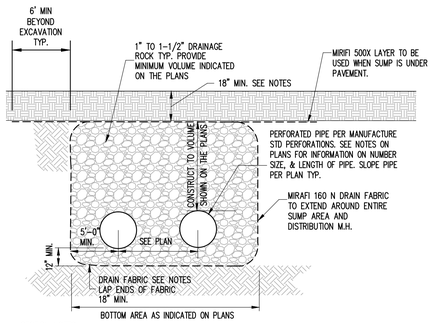
| REQUIRED RETENSION STORAGE: | 11845 CF | 100 yr Event |
|---|---|---|

VOLUME PROVIDED

| | row length (ft) | pipe dia. | no. rows | pipe area | volume (cf) |
|---|---|---|---|---|---|
| Pipe Volume: | 25 | 30 | 2 | 4.91 | 245.44 |
| | 85 | 30 | 3 | 4.91 | 1251.73 |
| | 25 | 30 | 2 | 4.91 | 245.44 |
| | 35 | 30 | 3 | 4.91 | 515.42 |
| | 25 | 30 | 1 | 4.91 | 122.72 |
| | | | | *total:* | **1497.16** |

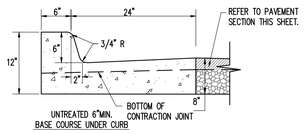
| Volume of the Voids: =total vol-pipe vol *0.40 | total volume (cf) (height of pipe+3.5' x area of gravel) | pipe vol (cf) (pipe area * length of pipe) | volume (cf) |
|---|---|---|---|
| | 19950 | 1497.16 | 7381.13 |
| | 9450 | 760.85 | 3475.66 |
| | | total: | 10856.79 |
| | Total Storage: | 10856.79 CF | |

| TOTAL VOLUME PROVIDED: | 12354 CF |
|---|---|



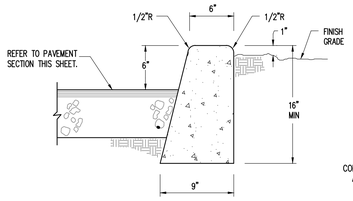

SECTION NOTES:
1. DRAINAGE FABRIC SHALL MEET THE SPECIFICATIONS OF "MIRAFI 160 N" OR APPROVED EQUIVALENT.
2. HDPE SHALL MEET REQUIREMENTS OF ASTM F-667. FITTINGS SHALL BE GASKETED FITTINGS MADE IN ACCORDANCE WITH PIPE MANUFACTURER STD. SPECIFICATIONS. PERFORATIONS TO BE PERFORMED BY THE PIPE MANUFACTURER. PROVIDE A MINIMUM OF 1 SQ. INCH OF INLET AREA PER FOOT OF PIPE. USE SOLID PIPE WHERE PIPE EXTEND BEYOND DETENTION AREA.
3. AREAS UNDER SIDEWALK, PAVED LOCATIONS, OR SHRUB AREAS WILL HAVE A MINIMUM COVER OF 18" OVER THE SUMP FABRIC, AND WILL HAVE A LAYER OF MIRIFI 500X PLACED AS SHOWN.

UNDERGROUND SUMP STORAGE SECTION (J)
N.T.S.

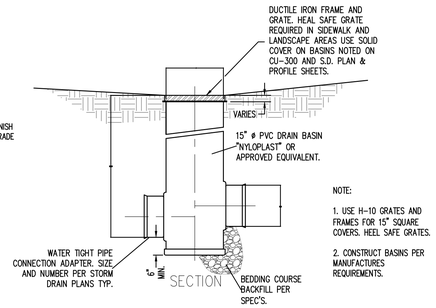



NOTES:
1. CONCRETE SHALL BE MONOLITHIC 4000 PSI @ 28 DAYS (6% AIR ENTRAINED).
2. PLACE EXPANSION-CONTRACTION JOINTS AT ALL BC AND EC POINTS. PLACE CONTROL JOINTS AT 10' INTERVALS.
3. PLACE JOINT FILLER STRIPS BETWEEN WALK AND CURB TO DEPTH OF CONCRETE PLUS ONE INCH WITH TIP SET FLUSH WITH TOP BACK OF CURB.

CURB & GUTTER (K)
N.T.S.




CURB DETAIL (L)
N.T.S.




NOTE:
1. USE H-10 GRATES AND FRAMES FOR 15" SQUARE COVERS. HEEL SAFE GRATES.
2. CONSTRUCT BASINS PER MANUFACTURES REQUIREMENTS.

| ADAPTER SIZE | 15" BASIN MIN. HORIZ. ANGLE BETWEEN ADAPTERS |
|---|---|
| 6"–8" | 65° |
| 8"–8" | 70° |
| 12"–12" | 90° |

15" AREA DRAIN (M)
N.T.S.

DESIGN TEAM

JACOBY ARCHITECTS
425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

CONSULTANTS

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NICHOLE LEE LUTHI
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PROJECT

State of Utah—Department of Administrative Services
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4110 State Office Building | Salt Lake City, Utah 84114 | 801.538.3018
DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

ISSUE/PHASE

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|---|---|
| 2014 10 09 | Schematic Design |
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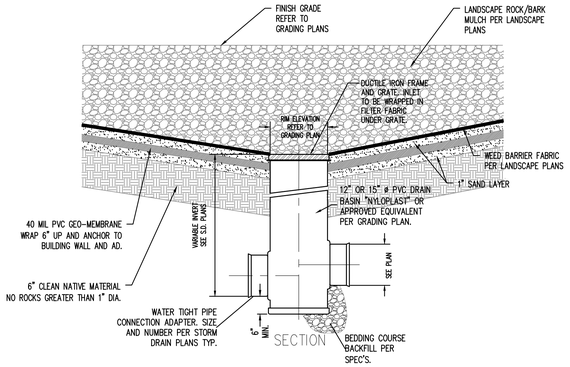
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

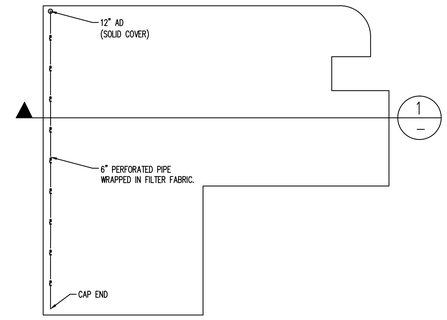
Construction Documents

Civil-
General Details

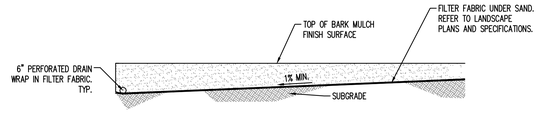
C-100




PLANTER DRAIN
N.T.S.
A

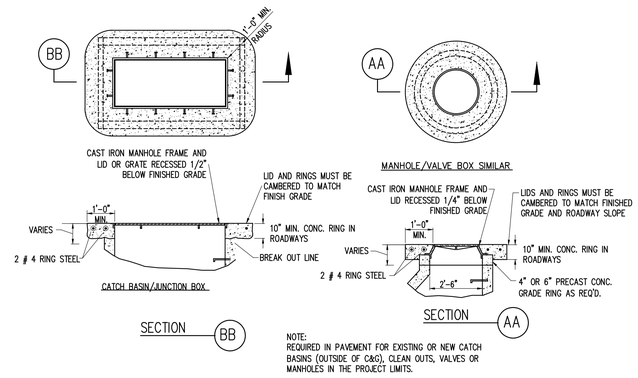



PLAN VIEW




SECTION 1

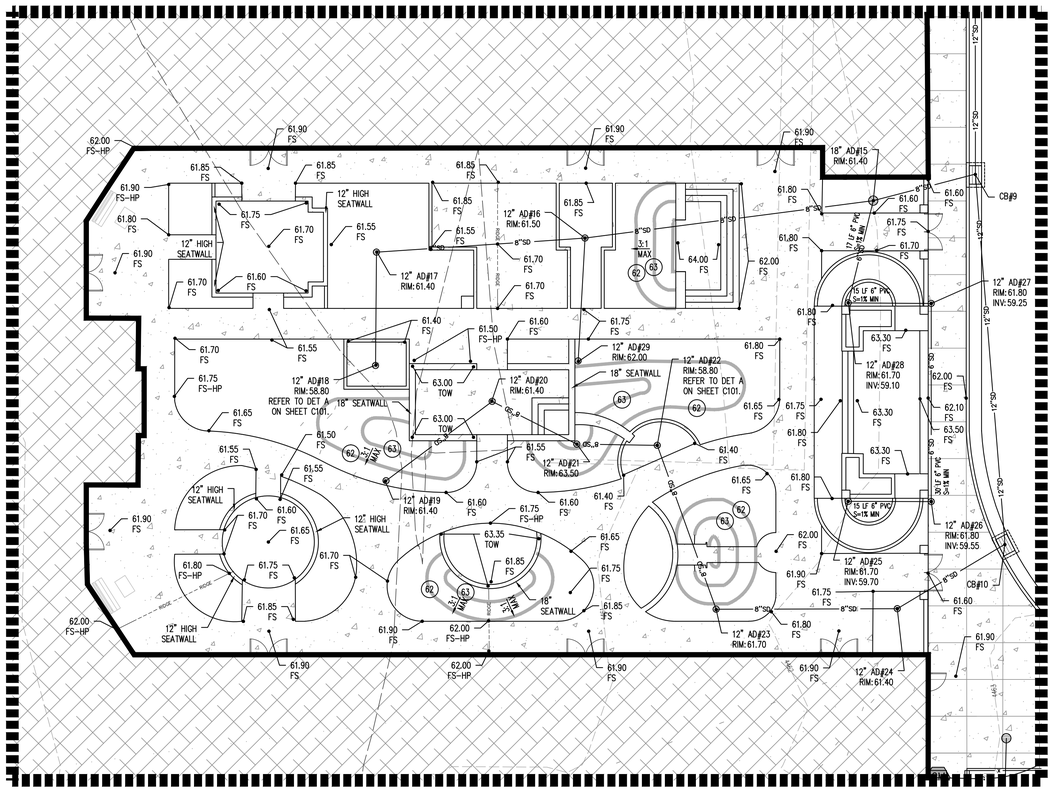
PLAYGROUND DRAIN
N.T.S.
B




NOTE:
REQUIRED IN PAVEMENT FOR EXISTING OR NEW CATCH BASINS (OUTSIDE OF C&G), CLEAN OUTS, VALVES OR MANHOLES IN THE PROJECT LIMITS.

CONCRETE RING AROUND SURFACE
UTILITY STRUCTURES
N.T.S.
C

# ENLARGED COURTYARD GRADING PLAN




NOTES:
1-REFER TO NOTES ON SHEET C400.
2-6" AND 8" PIPES TO BE PVC REFER TO NOTES ON C300.

DESIGN TEAM

JACOBY ARCHITECTS

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Project Number: 2014-07

CONSULTANTS

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Construction Documents

Civil-
General Details

C-101

EXISTING TOPO NOTE:

1. THIS SURVEY WAS CONDUCTED BY MERIDIAN ENGINEERING, INC. IN FALL 2014.

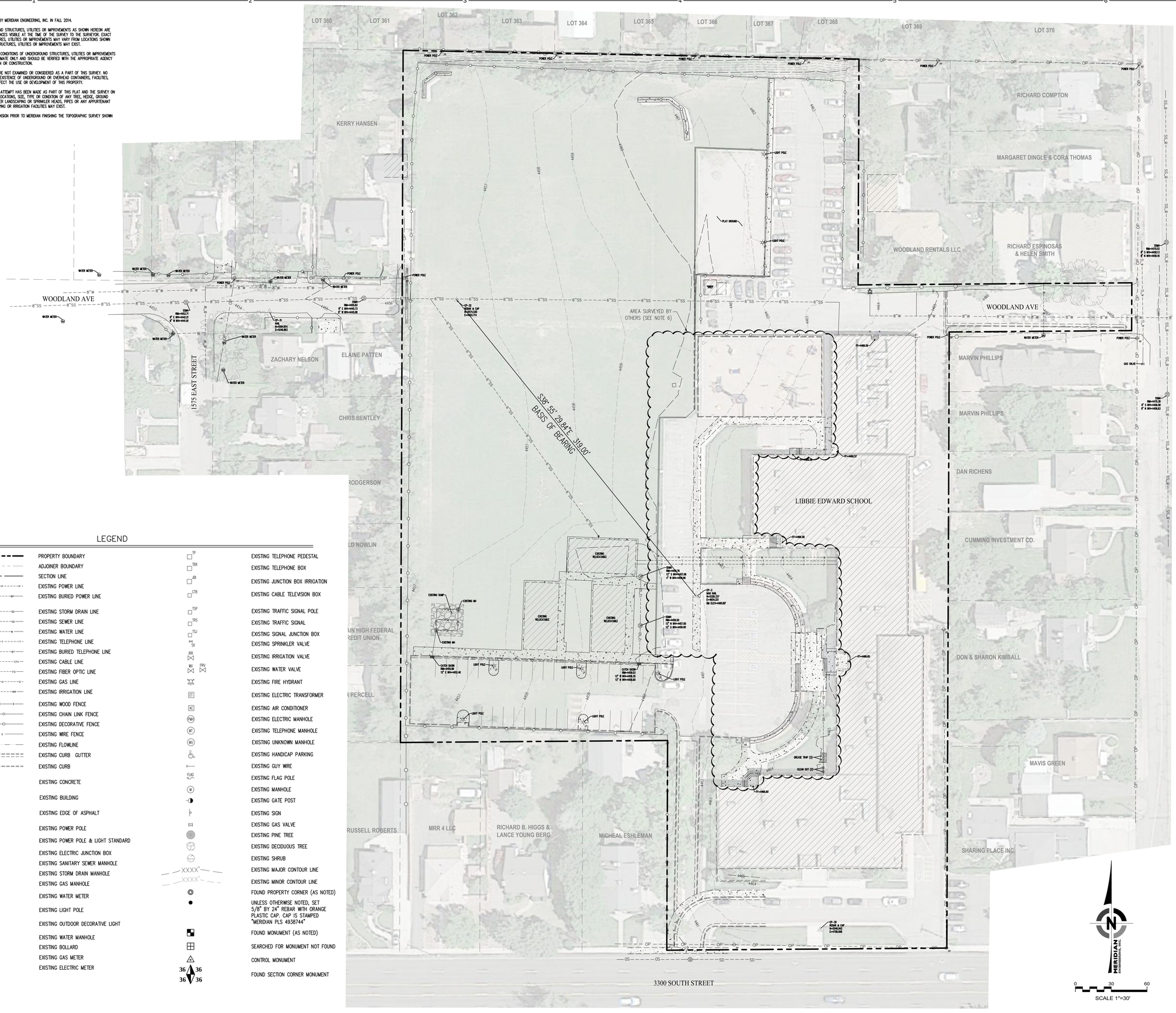
2. THE LOCATIONS OF UNDERGROUND STRUCTURES, UTILITIES OR IMPROVEMENTS AS SHOWN HEREON ARE BASED ON ABOVE GROUND APPURTENANCES VISIBLE AT THE TIME OF THE SURVEY TO THE SURVEYOR. EXACT LOCATIONS OF UNDERGROUND STRUCTURES, UTILITIES OR IMPROVEMENTS MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL UNDERGROUND STRUCTURES, UTILITIES OR IMPROVEMENTS MAY EXIST.

3. ELEVATIONS, SIZES, TYPES AND CONDITIONS OF UNDERGROUND STRUCTURES, UTILITIES OR IMPROVEMENTS AS SHOWN ON THIS PLAT ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED WITH THE APPROPRIATE AGENCY OR CONTROLLING PARTY BEFORE DESIGN OR CONSTRUCTION.

4. ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS, FACILITIES, DEPOSITS OR DISPOSALS THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS PROPERTY.

5. UNLESS OTHERWISE SHOWN, NO ATTEMPT HAS BEEN MADE AS PART OF THIS PLAT AND THE SURVEY ON WHICH IT IS BASED TO DISCLOSE THE LOCATIONS, SIZE, TYPE OR CONDITION OF ANY TREE, HEDGE, GROUND COVER, LAWN, PLANTINGS OR ANY OTHER LANDSCAPING OR SPRINKLER HEADS, PIPES OR ANY APPURTENANT PARTS THEREOF. ADDITIONAL LANDSCAPING OR IRRIGATION FACILITIES MAY EXIST.

6. CLOUDED AREA SURVEYED BY ENSIGN PRIOR TO MERIDIAN FINISHING THE TOPOGRAPHIC SURVEY SHOWN HEREON.




## LEGEND

| | | | |
|---|---|---|---|
| | PROPERTY BOUNDARY | TP | EXISTING TELEPHONE PEDESTAL |
| | ADJOINER BOUNDARY | TBX | EXISTING TELEPHONE BOX |
| | SECTION LINE | JB | EXISTING JUNCTION BOX IRRIGATION |
| | EXISTING POWER LINE | CTB | EXISTING CABLE TELEVISION BOX |
| | EXISTING BURIED POWER LINE | | |
| | EXISTING STORM DRAIN LINE | TSP | EXISTING TRAFFIC SIGNAL POLE |
| | EXISTING SEWER LINE | TRS | EXISTING TRAFFIC SIGNAL |
| | EXISTING WATER LINE | TSJ | EXISTING SIGNAL JUNCTION BOX |
| | EXISTING TELEPHONE LINE | SV | EXISTING SPRINKLER VALVE |
| | EXISTING BURIED TELEPHONE LINE | IRR | EXISTING IRRIGATION VALVE |
| | EXISTING CABLE LINE | WV PRV | EXISTING WATER VALVE |
| | EXISTING FIBER OPTIC LINE | FH | EXISTING FIRE HYDRANT |
| | EXISTING GAS LINE | ET | EXISTING ELECTRIC TRANSFORMER |
| | EXISTING IRRIGATION LINE | AC | EXISTING AIR CONDITIONER |
| | EXISTING WOOD FENCE | EMH | EXISTING ELECTRIC MANHOLE |
| | EXISTING CHAIN LINK FENCE | MT | EXISTING TELEPHONE MANHOLE |
| | EXISTING DECORATIVE FENCE | MU | EXISTING UNKNOWN MANHOLE |
| | EXISTING WIRE FENCE | | EXISTING HANDICAP PARKING |
| | EXISTING FLOWLINE | | EXISTING GUY WIRE |
| | EXISTING CURB GUTTER | FLAG | EXISTING FLAG POLE |
| | EXISTING CURB | M | EXISTING MANHOLE |
| | EXISTING CONCRETE | | EXISTING GATE POST |
| | EXISTING BUILDING | | EXISTING SIGN |
| | EXISTING EDGE OF ASPHALT | | EXISTING GAS VALVE |
| PP | EXISTING POWER POLE | | EXISTING PINE TREE |
| PP & LS | EXISTING POWER POLE & LIGHT STANDARD | | EXISTING DECIDUOUS TREE |
| EJB | EXISTING ELECTRIC JUNCTION BOX | | EXISTING SHRUB |
| SS | EXISTING SANITARY SEWER MANHOLE | XXXX' | EXISTING MAJOR CONTOUR LINE |
| SD | EXISTING STORM DRAIN MANHOLE | XXXX' | EXISTING MINOR CONTOUR LINE |
| GM | EXISTING GAS MANHOLE | | FOUND PROPERTY CORNER (AS NOTED) |
| WM | EXISTING WATER METER | | UNLESS OTHERWISE NOTED, SET 5/8" BY 24" REBAR WITH ORANGE PLASTIC CAP. CAP IS STAMPED "MERIDIAN PLS 4938744" |
| LP | EXISTING LIGHT POLE | | |
| DDL | EXISTING OUTDOOR DECORATIVE LIGHT | | FOUND MONUMENT (AS NOTED) |
| WB | EXISTING WATER MANHOLE | | SEARCHED FOR MONUMENT NOT FOUND |
| | EXISTING BOLLARD | | CONTROL MONUMENT |
| GM | EXISTING GAS METER | 36 36 36 36 | FOUND SECTION CORNER MONUMENT |
| EM | EXISTING ELECTRIC METER | | |

DESIGN TEAM


JACOBY ARCHITECTS

425 South 400 East
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801 363 1434
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Checked By:

PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230

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Construction Documents

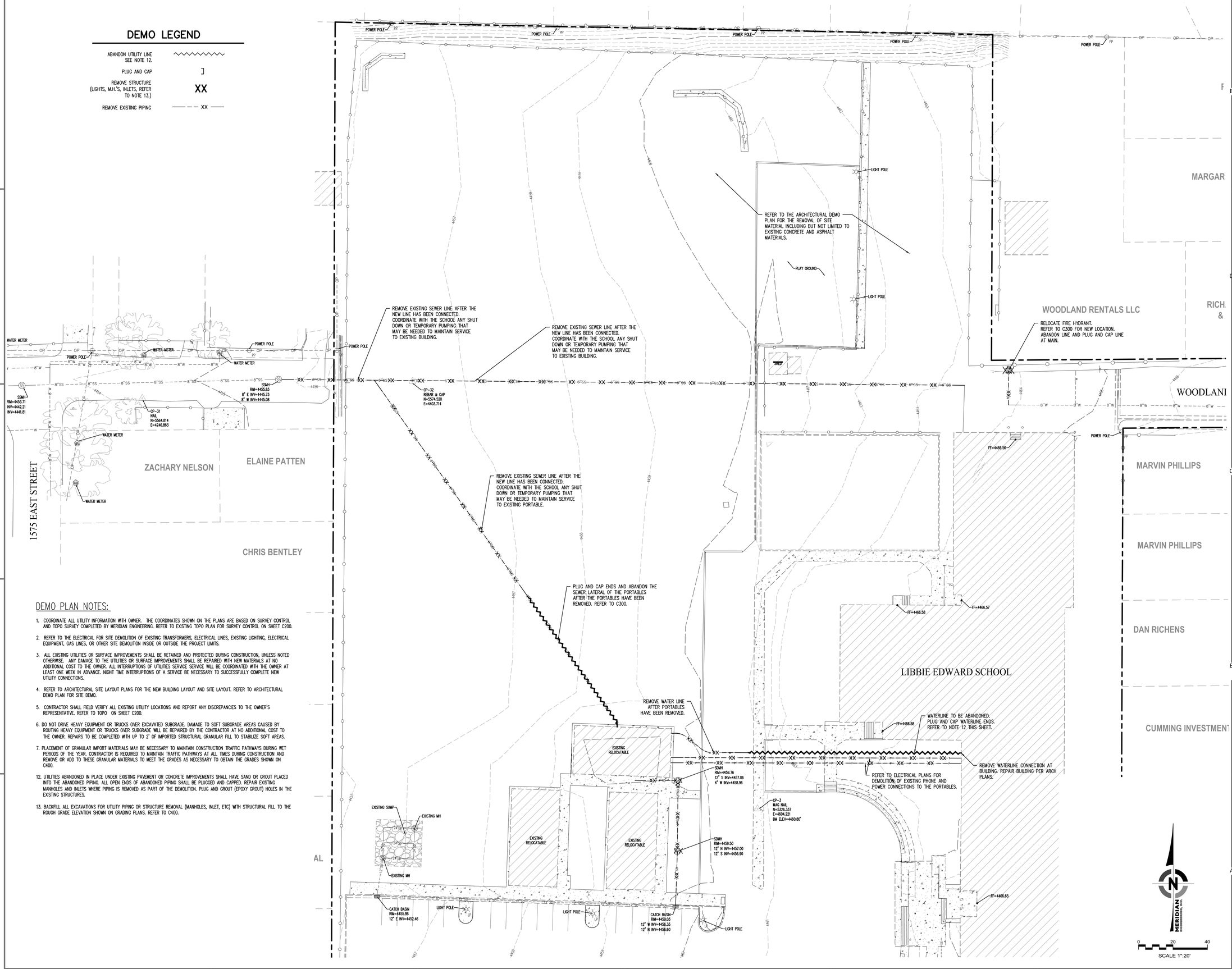
Civil-

Existing Topography

C-200

## DEMO LEGEND

| | |
|---|---|
| ABANDON UTILITY LINE SEE NOTE 12. | |
| PLUG AND CAP | ] |
| REMOVE STRUCTURE (LIGHTS, M.H.'S, INLETS, REFER TO NOTE 13.) | XX |
| REMOVE EXISTING PIPING | — — — XX — |




## DEMO PLAN NOTES:

1. COORDINATE ALL UTILITY INFORMATION WITH OWNER. THE COORDINATES SHOWN ON THE PLANS ARE BASED ON SURVEY CONTROL AND TOPO SURVEY COMPLETED BY MERIDIAN ENGINEERING. REFER TO EXISTING TOPO PLAN FOR SURVEY CONTROL ON SHEET C200.
2. REFER TO THE ELECTRICAL FOR SITE DEMOLITION OF EXISTING TRANSFORMERS, ELECTRICAL LINES, EXISTING LIGHTING, ELECTRICAL EQUIPMENT, GAS LINES, OR OTHER SITE DEMOLITION INSIDE OR OUTSIDE THE PROJECT LIMITS.
3. ALL EXISTING UTILITIES OR SURFACE IMPROVEMENTS SHALL BE RETAINED AND PROTECTED DURING CONSTRUCTION, UNLESS NOTED OTHERWISE. ANY DAMAGE TO THE UTILITIES OR SURFACE IMPROVEMENTS SHALL BE REPAIRED WITH NEW MATERIALS AT NO ADDITIONAL COST TO THE OWNER. ALL INTERRUPTIONS OF UTILITIES SERVICE SERVICE WILL BE COORDINATED WITH THE OWNER AT LEAST ONE WEEK IN ADVANCE. NIGHT TIME INTERRUPTIONS OF A SERVICE BE NECESSARY TO SUCCESSFULLY COMPLETE NEW UTILITY CONNECTIONS.
4. REFER TO ARCHITECTURAL SITE LAYOUT PLANS FOR THE NEW BUILDING LAYOUT AND SITE LAYOUT. REFER TO ARCHITECTURAL DEMO PLAN FOR SITE DEMO.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE. REFER TO TOPO ON SHEET C200.
6. DO NOT DRIVE HEAVY EQUIPMENT OR TRUCKS OVER EXCAVATED SUBGRADE. DAMAGE TO SOFT SUBGRADE AREAS CAUSED BY ROUTING HEAVY EQUIPMENT OR TRUCKS OVER SUBGRADE WILL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. REPAIRS TO BE COMPLETED WITH UP TO 2' OF IMPORTED STRUCTURAL GRANULAR FILL TO STABILIZE SOFT AREAS.
7. PLACEMENT OF GRANULAR IMPORT MATERIALS MAY BE NECESSARY TO MAINTAIN CONSTRUCTION TRAFFIC PATHWAYS DURING WET PERIODS OF THE YEAR. CONTRACTOR IS REQUIRED TO MAINTAIN TRAFFIC PATHWAYS AT ALL TIMES DURING CONSTRUCTION AND REMOVE OR ADD TO THESE GRANULAR MATERIALS TO MEET THE GRADES AS NECESSARY TO OBTAIN THE GRADES SHOWN ON C400.
12. UTILITIES ABANDONED IN PLACE UNDER EXISTING PAVEMENT OR CONCRETE IMPROVEMENTS SHALL HAVE SAND OR GROUT PLACED INTO THE ABANDONED PIPING. ALL OPEN ENDS OF ABANDONED PIPING SHALL BE PLUGGED AND CAPPED. REPAIR EXISTING MANHOLES AND INLETS WHERE PIPING IS REMOVED AS PART OF THE DEMOLITION. PLUG AND GROUT (EPOXY GROUT) HOLES IN THE EXISTING STRUCTURES.
13. BACKFILL ALL EXCAVATIONS FOR UTILITY PIPING OR STRUCTURE REMOVAL (MANHOLES, INLET, ETC) WITH STRUCTURAL FILL TO THE ROUGH GRADE ELEVATION SHOWN ON GRADING PLANS. REFER TO C400.

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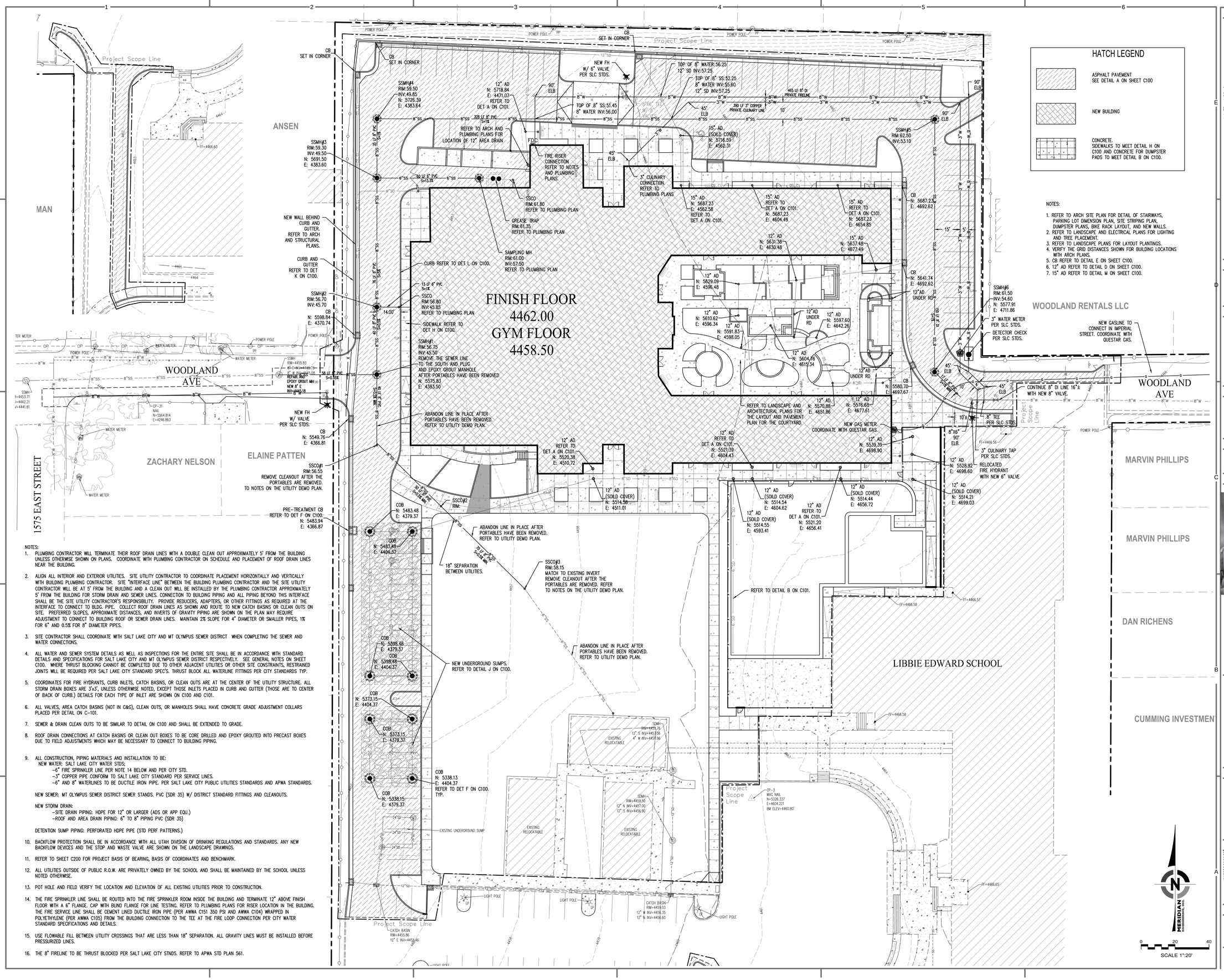
Construction Documents

Civil-
Utility Demo Plan

C-201




NOTES:

1. PLUMBING CONTRACTOR WILL TERMINATE THEIR ROOF DRAIN LINES WITH A DOUBLE CLEAN OUT APPROXIMATELY 5' FROM THE BUILDING UNLESS OTHERWISE SHOWN ON PLANS. COORDINATE WITH PLUMBING CONTRACTOR ON SCHEDULE AND PLACEMENT OF ROOF DRAIN LINES NEAR THE BUILDING.
2. ALIGN ALL INTERIOR AND EXTERIOR UTILITIES. SITE UTILITY CONTRACTOR TO COORDINATE PLACEMENT HORIZONTALLY AND VERTICALLY WITH BUILDING PLUMBING CONTRACTOR. SITE "INTERFACE LINE" BETWEEN THE BUILDING PLUMBING CONTRACTOR AND THE SITE UTILITY CONTRACTOR WILL BE AT 5' FROM THE BUILDING AND A CLEAN OUT WILL BE INSTALLED BY THE PLUMBING CONTRACTOR APPROXIMATELY 5' FROM THE BUILDING FOR STORM DRAIN AND SEWER LINES. CONNECTION TO BUILDING PIPING AND ALL PIPING BEYOND THIS INTERFACE SHALL BE THE SITE UTILITY CONTRACTOR'S RESPONSIBILITY. PROVIDE REDUCERS, ADAPTERS, OR OTHER FITTINGS AS REQUIRED AT THE INTERFACE TO CONNECT TO BLDG. PIPE. COLLECT ROOF DRAIN LINES AS SHOWN AND ROUTE TO NEW CATCH BASINS OR CLEAN OUTS ON SITE. PREFERRED SLOPES, APPROXIMATE DISTANCES, AND INVERTS OF GRAVITY PIPING ARE SHOWN ON THE PLAN MAY REQUIRE ADJUSTMENT TO CONNECT TO BUILDING ROOF OR SEWER DRAIN LINES. MAINTAIN 2% SLOPE FOR 4" DIAMETER OR SMALLER PIPES, 1% FOR 6" AND 0.5% FOR 8" DIAMETER PIPES.
3. SITE CONTRACTOR SHALL COORDINATE WITH SALT LAKE CITY AND MT OLYMPUS SEWER DISTRICT WHEN COMPLETING THE SEWER AND WATER CONNECTIONS.
4. ALL WATER AND SEWER SYSTEM DETAILS AS WELL AS INSPECTIONS FOR THE ENTIRE SITE SHALL BE IN ACCORDANCE WITH STANDARD DETAILS AND SPECIFICATIONS FOR SALT LAKE CITY AND MT OLYMPUS SEWER DISTRICT RESPECTIVELY. SEE GENERAL NOTES ON SHEET C100. WHERE THRUST BLOCKING CANNOT BE COMPLETED DUE TO OTHER ADJACENT UTILITIES OR OTHER SITE CONSTRAINTS, RESTRAINED JOINTS WILL BE REQUIRED PER SALT LAKE CITY STANDARD SPEC'S. THRUST BLOCK ALL WATERLINE FITTINGS PER CITY STANDARDS TYP.
5. COORDINATES FOR FIRE HYDRANTS, CURB INLETS, CATCH BASINS, OR CLEAN OUTS ARE AT THE CENTER OF THE UTILITY STRUCTURE. ALL STORM DRAIN BOXES ARE 3'x3', UNLESS OTHERWISE NOTED, EXCEPT THOSE INLETS PLACED IN CURB AND GUTTER (THOSE ARE TO CENTER OF BACK OF CURB.) DETAILS FOR EACH TYPE OF INLET ARE SHOWN ON C100 AND C101.
6. ALL VALVES, AREA CATCH BASINS (NOT IN C&G), CLEAN OUTS, OR MANHOLES SHALL HAVE CONCRETE GRADE ADJUSTMENT COLLARS PLACED PER DETAIL ON C-101.
7. SEWER & DRAIN CLEAN OUTS TO BE SIMILAR TO DETAIL ON C100 AND SHALL BE EXTENDED TO GRADE.
8. ROOF DRAIN CONNECTIONS AT CATCH BASINS OR CLEAN OUT BOXES TO BE CORE DRILLED AND EPOXY GROUTED INTO PRECAST BOXES DUE TO FIELD ADJUSTMENTS WHICH MAY BE NECESSARY TO CONNECT TO BUILDING PIPING.
9. ALL CONSTRUCTION, PIPING MATERIALS AND INSTALLATION TO BE:
   NEW WATER: SALT LAKE CITY WATER STDS;
   - 6" FIRE SPRINKLER LINE PER NOTE 14 BELOW AND PER CITY STD.
   - 3" COPPER PIPE CONFORM TO SALT LAKE CITY STANDARD PER SERVICE LINES.
   - 6" AND 8" WATERLINES TO BE DUCTILE IRON PIPE. PER SALT LAKE CITY PUBLIC UTILITIES STANDARDS AND APWA STANDARDS.

   NEW SEWER: MT OLYMPUS SEWER DISTRICT SEWER STANDS. PVC (SDR 35) W/ DISTRICT STANDARD FITTINGS AND CLEANOUTS.

   NEW STORM DRAIN:
   - SITE DRAIN PIPING: HDPE FOR 12" OR LARGER (ADS OR APP EQU.)
   - ROOF AND AREA DRAIN PIPING: 6" TO 8" PIPING PVC (SDR 35)

   DETENTION SUMP PIPING: PERFORATED HDPE PIPE (STD PERF PATTERNS.)
10. BACKFLOW PROTECTION SHALL BE IN ACCORDANCE WITH ALL UTAH DIVISION OF DRINKING REGULATIONS AND STANDARDS. ANY NEW BACKFLOW DEVICES AND THE STOP AND WASTE VALVE ARE SHOWN ON THE LANDSCAPE DRAWINGS.
11. REFER TO SHEET C200 FOR PROJECT BASIS OF BEARING, BASIS OF COORDINATES AND BENCHMARK.
12. ALL UTILITIES OUTSIDE OF PUBLIC R.O.W. ARE PRIVATELY OWNED BY THE SCHOOL AND SHALL BE MAINTAINED BY THE SCHOOL UNLESS NOTED OTHERWISE.
13. POT HOLE AND FIELD VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
14. THE FIRE SPRINKLER LINE SHALL BE ROUTED INTO THE FIRE SPRINKLER ROOM INSIDE THE BUILDING AND TERMINATE 12" ABOVE FINISH FLOOR WITH A 6" FLANGE. CAP WITH BLIND FLANGE FOR LINE TESTING. REFER TO PLUMBING PLANS FOR RISER LOCATION IN THE BUILDING. THE FIRE SERVICE LINE SHALL BE CEMENT LINED DUCTILE IRON PIPE (PER AWWA C151 350 PSI AND AWWA C104) WRAPPED IN POLYETHYLENE (PER AWWA C105) FROM THE BUILDING CONNECTION TO THE TEE AT THE FIRE LOOP CONNECTION PER CITY WATER STANDARD SPECIFICATIONS AND DETAILS.
15. USE FLOWABLE FILL BETWEEN UTILITY CROSSINGS THAT ARE LESS THAN 18" SEPARATION. ALL GRAVITY LINES MUST BE INSTALLED BEFORE PRESSURIZED LINES.
16. THE 8" FIRELINE TO BE THRUST BLOCKED PER SALT LAKE CITY STNDS. REFER TO APWA STD PLAN 561.

DESIGN TEAM

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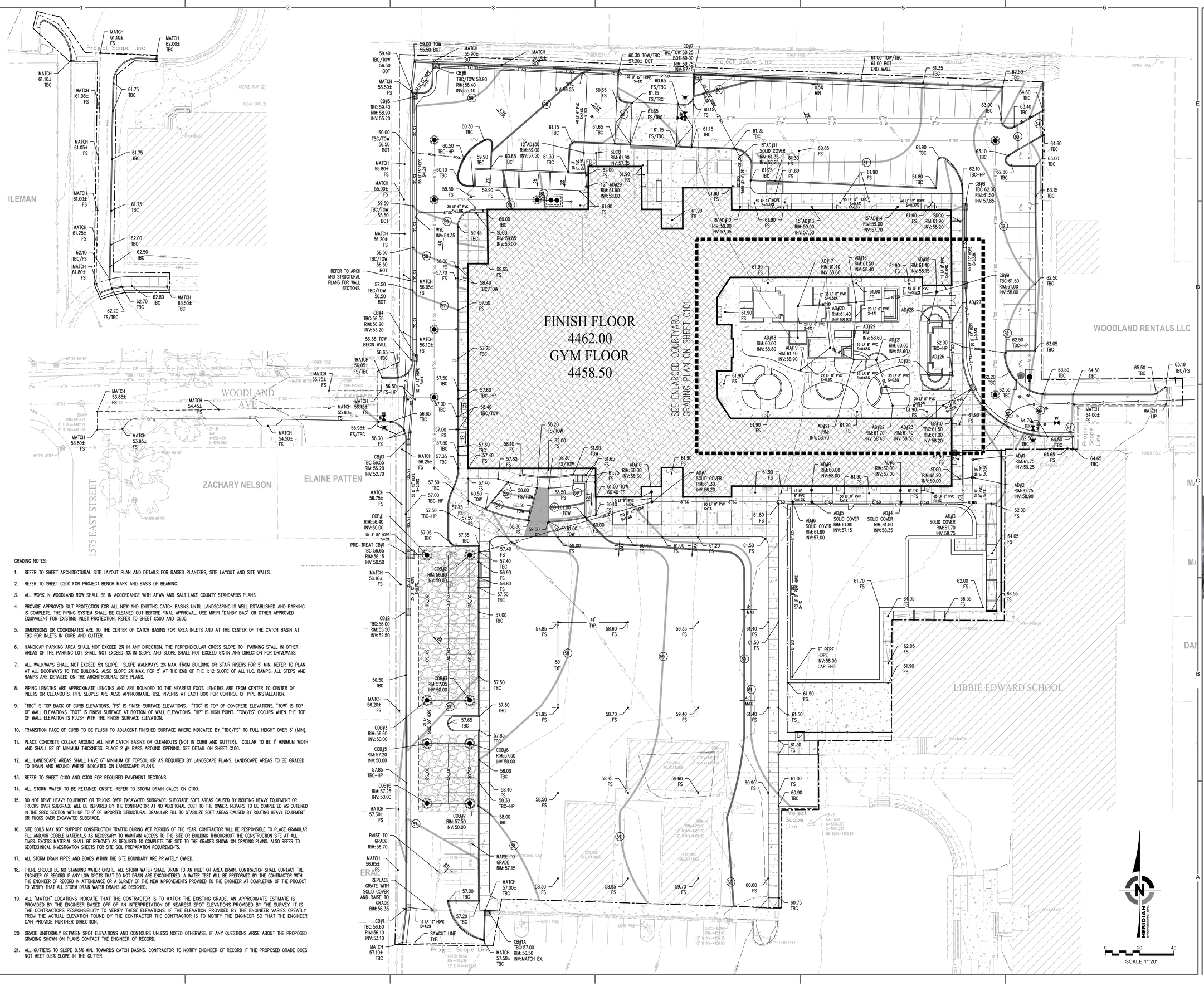
Construction Documents

Civil-
Utility Plan

C-300




GRADING NOTES:

1. REFER TO SHEET ARCHITECTURAL SITE LAYOUT PLAN AND DETAILS FOR RAISED PLANTERS, SITE LAYOUT AND SITE WALLS.
2. REFER TO SHEET C200 FOR PROJECT BENCH MARK AND BASIS OF BEARING.
3. ALL WORK IN WOODLAND ROW SHALL BE IN ACCORDANCE WITH APWA AND SALT LAKE COUNTY STANDARDS PLANS.
4. PROVIDE APPROVED SILT PROTECTION FOR ALL NEW AND EXISTING CATCH BASINS UNTIL LANDSCAPING IS WELL ESTABLISHED AND PARKING IS COMPLETE. THE PIPING SYSTEM SHALL BE CLEANED OUT BEFORE FINAL APPROVAL. USE MIRIFI "DANDY BAG" OR OTHER APPROVED EQUIVALENT FOR EXISTING INLET PROTECTION. REFER TO SHEET C500 AND C600.
5. DIMENSIONS OR COORDINATES ARE TO THE CENTER OF CATCH BASINS FOR AREA INLETS AND AT THE CENTER OF THE CATCH BASIN AT TBC FOR INLETS IN CURB AND GUTTER.
6. HANDICAP PARKING AREA SHALL NOT EXCEED 2% IN ANY DIRECTION. THE PERPENDICULAR CROSS SLOPE TO PARKING STALL IN OTHER AREAS OF THE PARKING LOT SHALL NOT EXCEED 4% IN SLOPE AND SLOPE SHALL NOT EXCEED 6% IN ANY DIRECTION FOR DRIVEWAYS.
7. ALL WALKWAYS SHALL NOT EXCEED 5% SLOPE. SLOPE WALKWAYS 2% MAX. FROM BUILDING OR STAIR RISERS FOR 5' MIN. REFER TO PLAN AT ALL DOORWAYS TO THE BUILDING. ALSO SLOPE 2% MAX. FOR 5' AT THE END OF THE 1:12 SLOPE OF ALL H.C. RAMPS. ALL STEPS AND RAMPS ARE DETAILED ON THE ARCHITECTURAL SITE PLANS.
8. PIPING LENGTHS ARE APPROXIMATE LENGTHS AND ARE ROUNDED TO THE NEAREST FOOT. LENGTHS ARE FROM CENTER TO CENTER OF INLETS OR CLEANOUTS. PIPE SLOPES ARE ALSO APPROXIMATE. USE INVERTS AT EACH BOX FOR CONTROL OF PIPE INSTALLATION.
9. "TBC" IS TOP BACK OF CURB ELEVATIONS. "FS" IS FINISH SURFACE ELEVATIONS. "TOC" IS TOP OF CONCRETE ELEVATIONS. "TOW" IS TOP OF WALL ELEVATIONS. "BOT" IS FINISH SURFACE AT BOTTOM OF WALL ELEVATIONS. "HP" IS HIGH POINT. "TOW/FS" OCCURS WHEN THE TOP OF WALL ELEVATION IS FLUSH WITH THE FINISH SURFACE ELEVATION.
10. TRANSITION FACE OF CURB TO BE FLUSH TO ADJACENT FINISHED SURFACE WHERE INDICATED BY "TBC/FS" TO FULL HEIGHT OVER 5' (MIN).
11. PLACE CONCRETE COLLAR AROUND ALL NEW CATCH BASINS OR CLEANOUTS (NOT IN CURB AND GUTTER). COLLAR TO BE 1' MINIMUM WIDTH AND SHALL BE 8" MINIMUM THICKNESS. PLACE 2 #4 BARS AROUND OPENING. SEE DETAIL ON SHEET C100.
12. ALL LANDSCAPE AREAS SHALL HAVE 6" MINIMUM OF TOPSOIL OR AS REQUIRED BY LANDSCAPE PLANS. LANDSCAPE AREAS TO BE GRADED TO DRAIN AND MOUND WHERE INDICATED ON LANDSCAPE PLANS.
13. REFER TO SHEET C100 AND C300 FOR REQUIRED PAVEMENT SECTIONS.
14. ALL STORM WATER TO BE RETAINED ONSITE. REFER TO STORM DRAIN CALCS ON C100.
15. DO NOT DRIVE HEAVY EQUIPMENT OR TRUCKS OVER EXCAVATED SUBGRADE. SUBGRADE SOFT AREAS CAUSED BY ROUTING HEAVY EQUIPMENT OR TRUCKS OVER SUBGRADE WILL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. REPAIRS TO BE COMPLETED AS OUTLINED IN THE SPEC SECTION WITH UP TO 2' OF IMPORTED STRUCTURAL GRANULAR FILL TO STABILIZE SOFT AREAS CAUSED BY ROUTING HEAVY EQUIPMENT OR TUCKS OVER EXCAVATED SUBGRADE.
16. SITE SOILS MAY NOT SUPPORT CONSTRUCTION TRAFFIC DURING WET PERIODS OF THE YEAR. CONTRACTOR WILL BE RESPONSIBLE TO PLACE GRANULAR FILL AND/OR COBBLE MATERIALS AS NECESSARY TO MAINTAIN ACCESS TO THE SITE OR BUILDING THROUGHOUT THE CONSTRUCTION SITE AT ALL TIMES. EXCESS MATERIAL SHALL BE REMOVED AS REQUIRED TO COMPLETE THE SITE TO THE GRADES SHOWN ON GRADING PLANS. ALSO REFER TO GEOTECHNICAL INVESTIGATION SHEETS FOR SITE SOIL PREPARATION REQUIREMENTS.
17. ALL STORM DRAIN PIPES AND BOXES WITHIN THE SITE BOUNDARY ARE PRIVATELY OWNED.
18. THERE SHOULD BE NO STANDING WATER ONSITE. ALL STORM WATER SHALL DRAIN TO AN INLET OR AREA DRAIN. CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD IF ANY LOW SPOTS THAT DO NOT DRAIN ARE ENCOUNTERED. A WATER TEST WILL BE PREFORMED BY THE CONTRACTOR WITH THE ENGINEER OF RECORD IN ATTENDANCE OR A SURVEY OF THE NEW IMPROVEMENTS PROVIDED TO THE ENGINEER AT COMPLETION OF THE PROJECT TO VERIFY THAT ALL STORM DRAIN WATER DRAINS AS DESIGNED.
19. ALL "MATCH" LOCATIONS INDICATE THAT THE CONTRACTOR IS TO MATCH THE EXISTING GRADE. AN APPROXIMATE ESTIMATE IS PROVIDED BY THE ENGINEER BASED OFF OF AN INTERPRETATION OF NEAREST SPOT ELEVATIONS PROVIDED BY THE SURVEY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THESE ELEVATIONS. IF THE ELEVATION PROVIDED BY THE ENGINEER VARIES GREATLY FROM THE ACTUAL ELEVATION FOUND BY THE CONTRACTOR THE CONTRACTOR IS TO NOTIFY THE ENGINEER SO THAT THE ENGINEER CAN PROVIDE FURTHER DIRECTION.
20. GRADE UNIFORMLY BETWEEN SPOT ELEVATIONS AND CONTOURS UNLESS NOTED OTHERWISE. IF ANY QUESTIONS ARISE ABOUT THE PROPOSED GRADING SHOWN ON PLANS CONTACT THE ENGINEER OF RECORD.
21. ALL GUTTERS TO SLOPE 0.5% MIN. TOWARDS CATCH BASINS. CONTRACTOR TO NOTIFY ENGINEER OF RECORD IF THE PROPOSED GRADE DOES NOT MEET 0.5% SLOPE IN THE GUTTER.

DESIGN TEAM


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS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Structural: - TBSE Inc. - 801.298.8795
Mechanical: - WHW Engineering - 801.466.4021
Electrical: - ECE Consulting - 801.521.8007
Landscape: - Landmark Design - 801.474.3300
Kitchen: - Jedrzlewski Designs - 801.582.9747


STAMP

STATE OF UTAH
5-11-15
NICHOLE LEE LUTH
8023335

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SHEET DATA

Drawn By:

Checked By:

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

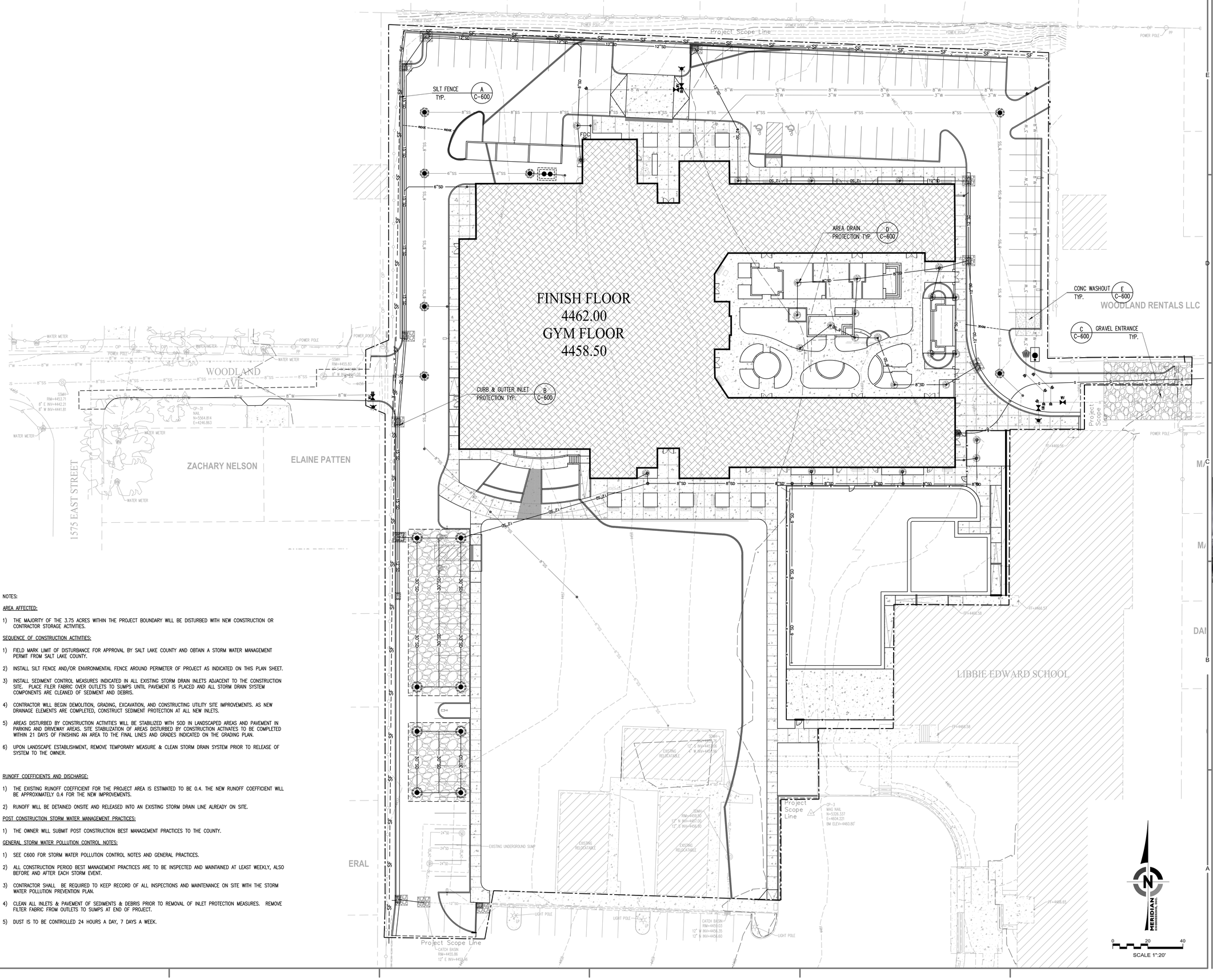
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Civil-
Grading Plan

C-400




NOTES:

AREA AFFECTED:

1) THE MAJORITY OF THE 3.75 ACRES WITHIN THE PROJECT BOUNDARY WILL BE DISTURBED WITH NEW CONSTRUCTION OR CONTRACTOR STORAGE ACTIVITIES.

SEQUENCE OF CONSTRUCTION ACTIVITIES:

1) FIELD MARK LIMIT OF DISTURBANCE FOR APPROVAL BY SALT LAKE COUNTY AND OBTAIN A STORM WATER MANAGEMENT PERMIT FROM SALT LAKE COUNTY.

2) INSTALL SILT FENCE AND/OR ENVIRONMENTAL FENCE AROUND PERIMETER OF PROJECT AS INDICATED ON THIS PLAN SHEET.

3) INSTALL SEDIMENT CONTROL MEASURES INDICATED IN ALL EXISTING STORM DRAIN INLETS ADJACENT TO THE CONSTRUCTION SITE. PLACE FILER FABRIC OVER OUTLETS TO SUMPS UNTIL PAVEMENT IS PLACED AND ALL STORM DRAIN SYSTEM COMPONENTS ARE CLEANED OF SEDIMENT AND DEBRIS.

4) CONTRACTOR WILL BEGIN DEMOLITION, GRADING, EXCAVATION, AND CONSTRUCTING UTILITY SITE IMPROVEMENTS. AS NEW DRAINAGE ELEMENTS ARE COMPLETED, CONSTRUCT SEDIMENT PROTECTION AT ALL NEW INLETS.

5) AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE STABILIZED WITH SOD IN LANDSCAPED AREAS AND PAVEMENT IN PARKING AND DRIVEWAY AREAS. SITE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION ACTIVATES TO BE COMPLETED WITHIN 21 DAYS OF FINISHING AN AREA TO THE FINAL LINES AND GRADES INDICATED ON THE GRADING PLAN.

6) UPON LANDSCAPE ESTABLISHMENT, REMOVE TEMPORARY MEASURE & CLEAN STORM DRAIN SYSTEM PRIOR TO RELEASE OF SYSTEM TO THE OWNER.

RUNOFF COEFFICIENTS AND DISCHARGE:

1) THE EXISTING RUNOFF COEFFICIENT FOR THE PROJECT AREA IS ESTIMATED TO BE 0.4. THE NEW RUNOFF COEFFICIENT WILL BE APPROXIMATELY 0.4 FOR THE NEW IMPROVEMENTS.

2) RUNOFF WILL BE DETAINED ONSITE AND RELEASED INTO AN EXISTING STORM DRAIN LINE ALREADY ON SITE.

POST CONSTRUCTION STORM WATER MANAGEMENT PRACTICES:

1) THE OWNER WILL SUBMIT POST CONSTRUCTION BEST MANAGEMENT PRACTICES TO THE COUNTY.

GENERAL STORM WATER POLLUTION CONTROL NOTES:

1) SEE C600 FOR STORM WATER POLLUTION CONTROL NOTES AND GENERAL PRACTICES.

2) ALL CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES ARE TO BE INSPECTED AND MAINTAINED AT LEAST WEEKLY, ALSO BEFORE AND AFTER EACH STORM EVENT.

3) CONTRACTOR SHALL BE REQUIRED TO KEEP RECORD OF ALL INSPECTIONS AND MAINTENANCE ON SITE WITH THE STORM WATER POLLUTION PREVENTION PLAN.

4) CLEAN ALL INLETS & PAVEMENT OF SEDIMENTS & DEBRIS PRIOR TO REMOVAL OF INLET PROTECTION MEASURES. REMOVE FILTER FABRIC FROM OUTLETS TO SUMPS AT END OF PROJECT.

5) DUST IS TO BE CONTROLLED 24 HOURS A DAY, 7 DAYS A WEEK.

DESIGN TEAM


JACOBY ARCHITECTS

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Salt Lake City
Utah 84111
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Project Number: 2014-07


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ADDENDA

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|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Civil-
Storm Water Pollution Prevention Plan

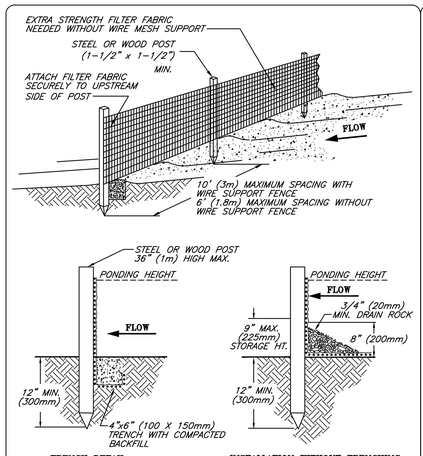
C-500

SILT FENCES, INSTALLATION OF SILT FENCES NOTE:

1. DIG OR TRENCH A FOUR INCH WIDE BY SIX INCH DEEP TRENCH, THE LENGTH OF THE SILT FENCE
2. ROLL OUT SILT FENCE MATERIAL ALONG THE FRONT OF THE TRENCH SUCH THAT THE STAKES WILL BE ON THE DOWNSTREAM SIDE AND THE BOTTOM FLAP LAY IN THE TRENCH.
3. STARTING AT ONE END, DRIVE THE FIRST STAKE AT LEAST 10 INCHES INTO THE GROUND. NOTE THAT THE STAKE MUST BE DRIVEN FAR ENOUGH INTO THE GROUND SO THAT 8 – 12 INCHES OF MATERIAL REMAINS IN THE GROUND.
4. AT THE NEXT STAKE, PULL THE MATERIAL TAUNT BEFORE DRIVING THE SECOND STAKE INTO THE GROUND. NOTE THAT THE STAKE MUST BE DRIVEN FAR ENOUGH INTO THE GROUND SO THAT 8 – 12 INCHES OF MATERIAL REMAINS TO THE GROUND.
5. REPEAT STEP 4 UNTIL THE STAKES ARE DRIVEN INTO THE GROUND.
6. WHEN ATTACHING TWO LENGTHS OF FENCE TOGETHER, DO THE FOLLOWING:
   - 6.1 PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
   - 6.2 ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION, TO CREATE A TIGHT SEAL WITH THE FENCE MATERIAL.
   - 6.3 DRIVE BOTH POST INTO THE GROUND SO THAT 8 – 12 INCHES OF MATERIAL REMAINS IN THE GROUND.

EROSION CONTROL GENERAL NOTES:

1. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DUE TO WIND AND RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL FACILITIES SHOWN.
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. A REPRESENTATIVE OF THE CITY PUBLIC WORKS DEPARTMENT MAY REQUIRE ADDITIONAL CONTROL DEVICES UPON INSPECTION OF PROPOSED FACILITIES.
3. ALL BEST MANAGEMENT PRACTICES AND EROSION CONTROL MEASURES ARE TO CONFORM TO MIDVALE CITY LAND DISTURBANCE DESIGN AND CONSTRUCTION STANDARDS.
4. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STREETS CLEAN AND FREE FROM DEBRIS DEPOSITED BY TRAFFIC FROM THE SITE.
5. ALL STORM DRAIN FACILITIES ON SITE AND ADJACENT TO THE SITE NEED TO BE PROTECTED FROM SITE RUNOFF. INLET PROTECTION DEVICES SHALL BE INSTALLED IMMEDIATELY AS INDIVIDUAL INLETS ARE INSTALLED.
6. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE PAVED, SEEDED WITH NATIVE VEGETATION OR LANDSCAPED. REFER TO LANDSCAPE PLANS FOR SEED MIX AND PLANTING SPECIFICATIONS.
7. EROSION CONTROL STRUCTURES BELOW SODDED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING ARE IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION. EROSION CONTROL IN PROPOSED PAVEMENT AREAS SHALL REMAIN IN PLACE UNTIL PAVEMENT IS COMPLETE.
8. CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL ENTER OR EXIT THE SITE. CONTROL FACILITIES SHALL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY AND REMOVED WHEN THE SITE IS PAVED.
9. ALL WASH WATER (CONCRETE TRUCKS. VEHICLE CLEANING, ETC.) SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT WITH STORM WATER DISCHARGES FROM THE SITE.
10. BLOWING DUST MUST BE CONTROLLED AT ALL TIMES. SITE WATERING SHALL BE USED TO CONTROL DUST. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS ABSOLUTELY PROHIBITED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, GRAVEL BAGS, ETC.) DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT.
12. ALL OFF–SITE CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
13. ALL MEASURES CONTAINED IN THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT. ANY NEEDED CLEANING AND REPAIRS SHALL BE DONE IMMEDIATELY UPON DISCOVERY.
14. ALL UTILITY LINES SHALL BE CLEANED OF DIRT AND DEBRIS PRIOR TO BEING PUT INTO SERVICE. DOWN–GRADE LINES MUST BE PROTECTED FROM WASH–WATER DURING THE CLEANING TO AVOID CONTAMINATION AND COMPROMISING OUTFALL CLEANLINESS.



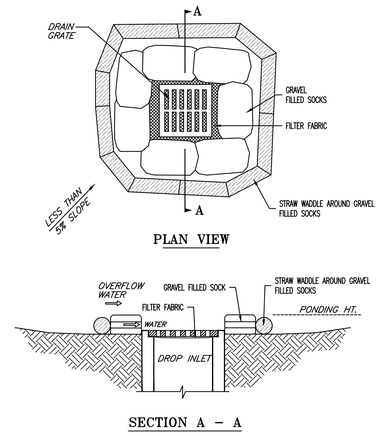

TRENCH DETAIL — INSTALLATION WITHOUT TRENCHING

NOTES:
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF–SITE AND CAN BE PERMANENTLY STABILIZED.

NOT TO SCALE

FILE: SILT FENCE

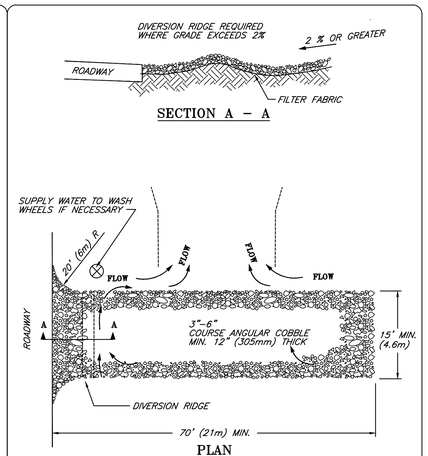
## SILT FENCE (A)




NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
2. EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DROP INLET.
3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWN SLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWN SLOPE SIDE OF THE STRUCTURE.

FILE: ENTRANCE

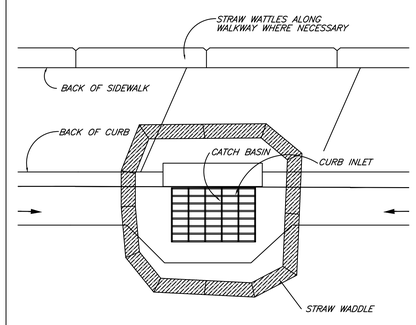
## INLET SEDIMENT BARRIER (B)




NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

FILE: N/A

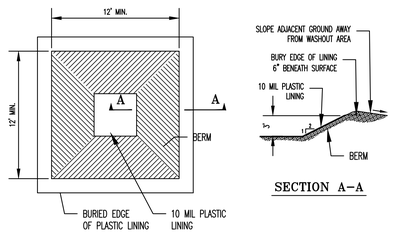
## TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT (C)




NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
2. EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DROP INLET.
3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWN SLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWN SLOPE SIDE OF THE STRUCTURE.

FILE: N/A

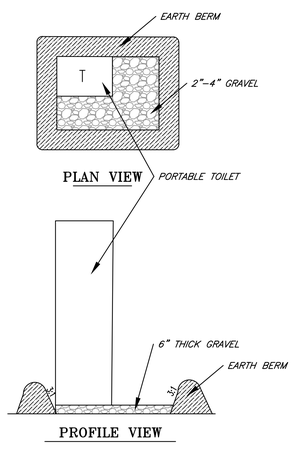
## CURB & GUTTER INLET SEDIMENT BARRIER (D)




NOTES:
1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. PLASTIC LINING MATERIAL SHALL BE OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
3. A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT IS REQUIRED IF ACCESS TO CONCRETE WASHOUT AREA IS OFF PAVEMENT.
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
6. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN ACCEPTED WASTE SITE.
7. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE CITY.

FILE: CURB AND GUTTER

## CONCRETE WASHOUT AREA (E)




## PORTABLE TOILET BARRIER (F)

LIMIT OF DISTURBANCE NOTES:

1. THE LIMITS OF DISTURBANCE (L.O.D.) TO BE FIELD MARKED.
2. FIELD VERIFICATION OF AN L.O.D. BY CITY ENGINEERING.
3. PRECONSTRUCTION EROSION AND SEDIMENT CONTROL MEETING REQUIRED PRIOR TO ANY DISTURBANCE. THE REQUIRED ATTENDEES WILL BE DEVELOPER'S PROJECT MANAGER, CONSTRUCTION COMPANY'S ON SITE MANAGER.
4. MODIFICATION OF L.O.D. AS REQUIRED BY RESULTS OF PRECONSTRUCTION MEETING.
5. THE CONTRACTOR TO OBTAIN WRITTEN APPROVAL FROM MIDVALE CITY CERTIFYING THE L.O.D., DUST CONTROL, AND TREE PROTECTION HAS BEEN REVIEWED AND APPROVED PRIOR TO WORK BEGINNING

CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES NOTES:

1. CONTRACTOR WILL PERFORM EARTHWORK IN ACCORDANCE WITH THE MIDVALE CITY STANDARD SPECIFICATIONS, CITY EROSION, SEDIMENT, REVEGETATION REQUIREMENTS AND THE DUST CONTROL PLAN AS REQUIRED BY THE STATE OF UTAH DEPARTMENT OF ENVIRONMENTAL DIVISION OF AIR QUALITY.
2. THE CONTRACTOR WILL PERFORM EARTHWORK IN ACCORDANCE WITH DIVISION 2 OF THE UTAH PUBLIC WORKS STANDARD SPECIFICATIONS AND THE RECOMMENDED EARTHWORK SPECIFICATIONS FOUND IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED FOR THIS PROJECT. IN THE EVENT THAT THERE IS A CONFLICT BETWEEN THE DOCUMENTS MENTIONED (NOTE 2) AND MIDVALE'S EROSION AND SEDIMENT CONTROL REQUIREMENTS OR THE DUST CONTROL PLAN AS REQUIRED BY THE STATE OF UTAH DEPARTMENT OF ENVIRONMENTAL DIVISION OF AIR QUALITY, THE CITY'S REQUIREMENTS AND THE STATE REQUIREMENTS WILL CONTROL.
3. L.O.D. BARRIERS WILL BE PROPERLY INSTALLED PRIOR TO ANY DISTURBANCE. L.O.D. BARRIERS ARE DEFINED AS SILT FENCE AND ENVIRONMENTAL FENCE.
4. INSTALL SILT FENCE ON ALL DOWNHILL SIDE OF L.O.D. SEE DETAIL AND SILT FENCE NOTES FOR CORRECT INSTALLATION PROCEDURE.
5. ENVIRONMENTAL FENCES ARE TO BE INSTALLED ON ALL UPHILL SIDE OF L.O.D.
6. THE L.O.D. SILT FENCE BARRIERS DO NOT REPLACE OR FUNCTION AS SEDIMENTATION B.M.PS.. ADDITIONAL SEDIMENT (BEST MANAGEMENT PRACTICES) BMPS WILL BE REQUIRED AS SHOWN ON THE PLANS OR AS REQUIRED BY THE CITY THROUGHOUT THE PROJECT AS UNFORESEEN SITUATIONS OCCUR.
7. WITHIN THE SAME WORKING DAY SOIL IS DISTURBED ALL SEDIMENT CONTROL B.M.PS. WILL BE INSTALLED. AN EXAMPLE OF SEDIMENT CONTROL BMP IS A SILT FENCE OR A TEMPORARY SEDIMENTATION BASIN. EXISTING VEGETATION WILL NOT BE BURIED, THE METHOD OF DISPOSAL WILL BE SUBMITTED AND APPROVED BY THE CITY.
8. INSTALL ALL SEDIMENTATION BMPS AS SHOWN ON PLANS AND AS DIRECTED BY THE CITY
9. DUST CONTROL MEASURES WILL BE ON SITE AND IN WORKING ORDER WHEN SOIL IS DISTURBED. DUST CONTROL WILL BE USED 24 HOURS SEVEN DAYS PER WEEK UNTIL SOIL IS RESEEDED AND PROTECTED. WATER USED TO CONTROL DUST WILL CONTAIN CALCIUM CHLORIDE OR SIMILAR ADDITIVE. THE DUST CONTROL PLAN AS REQUIRED BY THE STATE OF UTAH DEPARTMENT OF ENVIRONMENTAL DIVISION OF AIR QUALITY DOES NOT REPLACE THE CALCIUM CHLORIDE REQUIREMENT.
10. INSTALL IMPROVEMENTS AS SHOWN ON THE APPROVED CONSTRUCTION PLANS.
11. ALL DISTURBED SOIL WILL BE MADE STABLE AS WITHIN 21 DAYS OF DISTURBANCE.
12. TEMPORARY AND PERMANENT SEDIMENT BEST MANAGEMENT PRACTICES WILL REMAIN FUNCTIONAL AT ALL TIMES THROUGH THE ENTIRE PROJECT AND UNTIL ALL DISTURBED SOIL HAS BEEN STABILIZED TO PREVENT EROSION. WRITTEN APPROVAL MUST OBTAINED FROM THE CITY CERTIFYING ALL DISTURBED SOIL IS STABLE IS REQUIRED BEFORE ABANDONING SEDIMENTATION BEST MANAGEMENT PRACTICES.
13. IF THE EXISTING GRADES ARE DIFFERENT THAN WHAT IS SHOWN ON THE GRADING PLAN, STOP WORK AND NOTIFY THE CITY.
14. IF THE PROJECT REQUIRES EXPORT OR IMPORT MATERIAL TO ACHIEVE A BALANCED SITE. THE CONTRACTOR IS TO KEEP OFFSITE ROADS CLEAN AT ALL TIMES. FAILURE TO KEEP STREETS CLEAN WILL RESULT IN A MANDATORY WORK STOP ORDER BEING ISSUED ON THE IMPORT/EXPORT OPERATION.
15. THE PROJECT CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL PAVED STREETS ADJACENT TO OR ABUTTING THE GRADING PROJECT CLEAN AND FREE OF DIRT, MUD, AND DEBRIS AT ALL TIMES. WHEREAS THIS IS PUBLIC HEALTH AND SAFETY ISSUE, FAILURE TO COMPLY WILL RESULT IN A MANDATORY WORK STOP ORDER BEING ISSUED OVER THE ENTIRE PROJECT, INCLUDING COMMERCIAL AND RESIDENTIAL CONSTRUCTION PROJECTS.
16. THE CONTRACTOR WILL PROVIDE ADDITIONAL TEMPORARY EROSION CONTROL PLANS, AND PERMITS AS REQUIRED BY MIDVALE CITY, SALT LAKE COUNTY AND THE STATE OF UTAH AS REQUIRED THROUGHOUT THE DURATION OF THE PROJECT.
17. FAILURE TO FOLLOW THE SEQUENCE OF CONSTRUCTION SHALL RESULT IN THE ISSUANCE OF WORK STOP ORDER BEING ISSUED.
18. CONCRETE TRUCK TO USE PRE–ASSIGNED WASH OUT AREA. CONCRETE TRUCKS ARE NOT TO BE CLEANED OUT OR WASHED DOWN IN THE PUBLIC RIGHT–OF–WAY.
19. PORTABLE TOILETS TO BE LOCATED ADJACENT TO CONTRACTOR TRAILER. TOILETS SHALL BE MAINTAINED BY CONTRACTOR.
20. CONSTRUCTION WASTE BIN TO BE LOCATED NEAR CONTRACTOR TRAILER. ALL CONSTRUCTION WASTE TO BE PLACED IN WASTE BIN.
21. ALL CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES (BMPS) ARE TO BE INSPECTED AND MAINTAINED AT LEAST WEEKLY, ALSO BEFORE AND AFTER EACH STORM EVENT.
22. CONTRACTOR SHALL BE REQUIRED TO KEEP A RECORD OF ALL INSPECTIONS AND MAINTENANCE ON SITE WITH THE STORM WATER POLLUTION PREVENTION PLAN.

# CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES


DESIGN TEAM

JACOBY ARCHITECTS
425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

CONSULTANTS
Architectural: - Jacoby Architects, Inc. - 801.363.1434
Civil: - Meridian Engineering, Inc. - 801.569.1315
Structural: - TBSE Inc. - 801.298.8795
Mechanical: - WHW Engineering - 801.466.4021
Electrical: - ECE Consulting - 801.521.8007
Landscape: - Landmark Design - 801.474.3300
Kitchen: - Jedrziewski Designs - 801.582.9747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5-11-15
NICHOLE LEE LUTH
No. 8023335


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Checked By:

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018
DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

ISSUE/PHASE

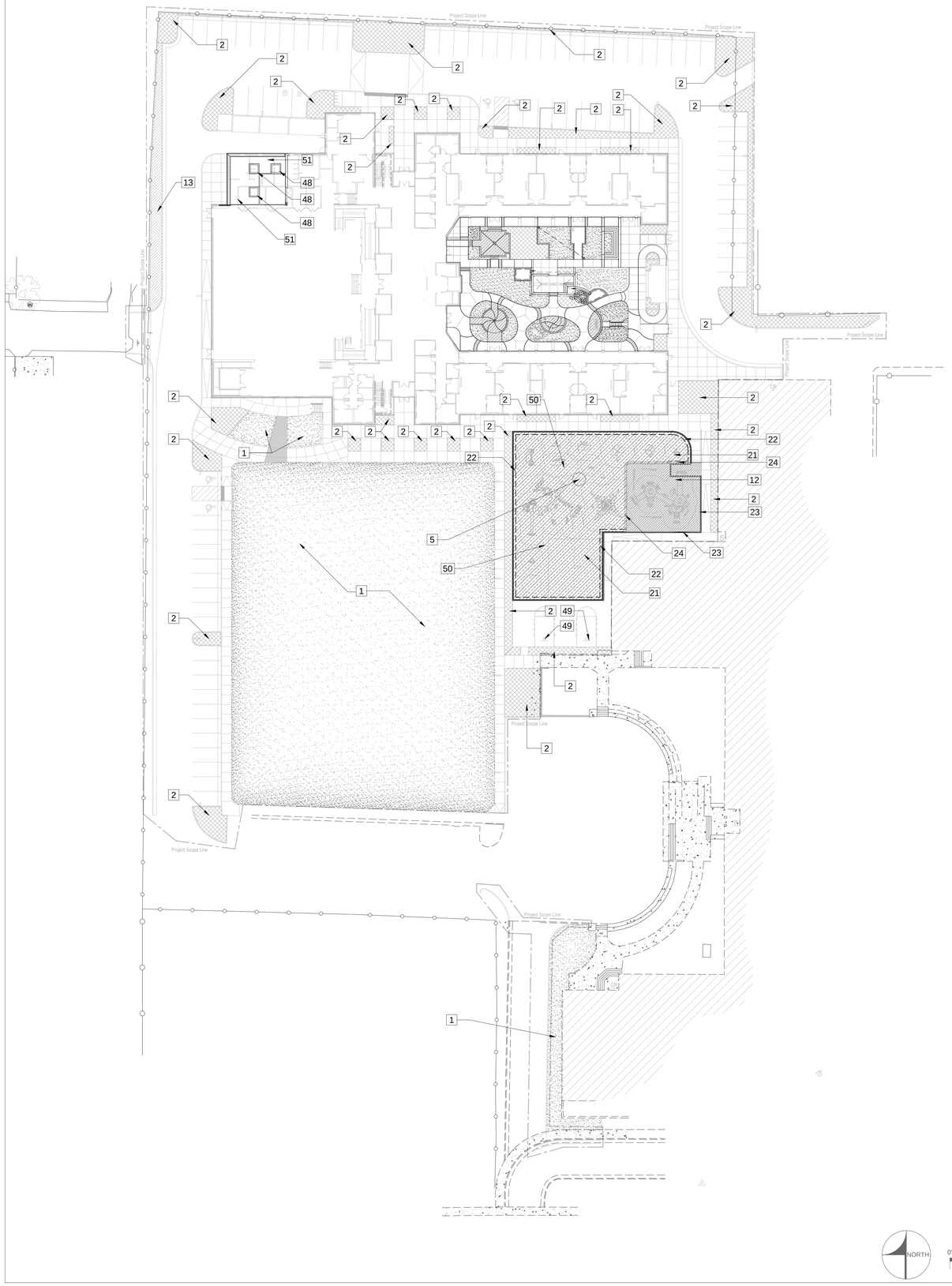
| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Civil-

SWPPP DETAILS

C-600




## REFERENCE NOTES SCHEDULE SURFACE 30

| SYMBOL | DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| 1 | TURF SOD | | |
| 2 | STONE MULCH - PLANTING | | |
| 5 | UNIQUE TREE PLANTING IN PLAY AREA | | 5/LP1-02 |
| 12 | RESILIENT SURFACE - RUBBER 75% ROYAL BLUE, 25% GRAY | | |
| 13 | WOOD MULCH - 3" DEEP | | |
| 21 | RESILIENT SURFACING - ENGINEERED WOOD FIBER | | |
| 22 | PLAYGROUND EDGE - ENGINEERRED WOOD FIBER | | |
| 23 | PLAYGROUND EDGE - RESILIENT RUBBER SURFACE | | |
| 24 | PLAYGROUND EDGE WOOD/RUBBER TRANSITION | | |
| 48 | ROOF TOP TREE PLANTING | | |
| 49 | ADJUSTABLE BASKETBALL STANDARD | | 2/LD5-03 |
| 50 | RELOCATED PLAY EQUIPMENT. SEE SITE AND PHASING DRAWINGS. SEE SPECIFICATIONS SECTION 32 29 17 PLAYGROUND RELOCATION. | | |
| 51 | ROOF TOP SHRUB PLANTING | | |

LAYOUT PLAN NOTES

1. See Sheet LS1-02 for Courtyard Layouts.
2. See Sheet LS1-03 for Courtyard Dimension Plan.
3. See Architectural and Civil plans for other layout information.

DESIGN TEAM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STATE OF UTAH
MARK W. VLASIC
NO. 4884491
5/11/2015
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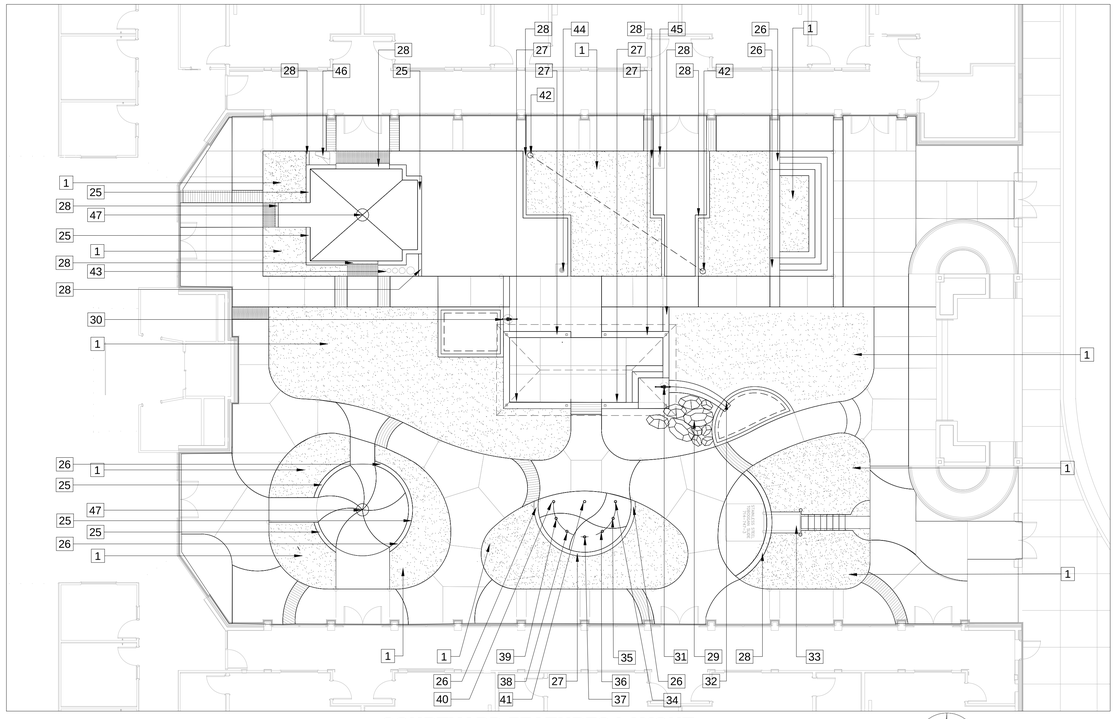
CONSTRUCTION DOCUMENTS

# OVERALL SURFACE LAYOUT PLAN

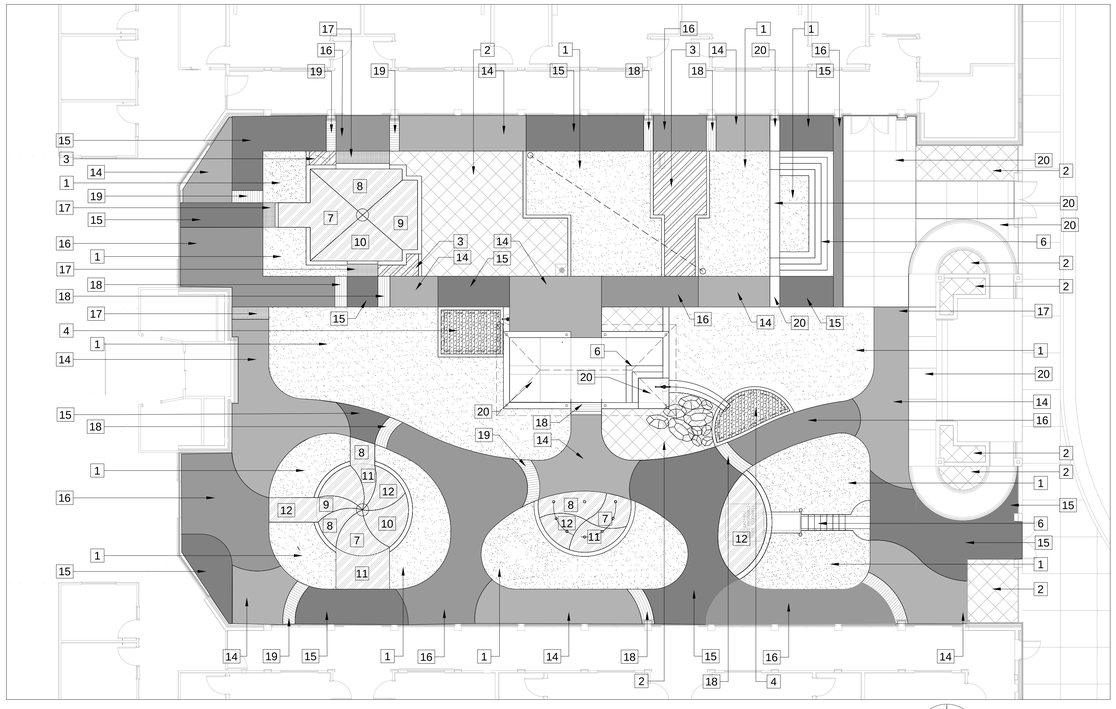
LS1-01

User: May 01, 2015 – 9:00am
P:\PROJECTS\LA_CURRENT\DFCM_USDB_2014\3_03 INFO\DFCM USDB SITE LAYOUT.dwg



## COURTYARD FEATURES LAYOUT

NORTH 0' 05' 10' 15'



## COURTYARD SURFACE LAYOUT

NORTH 0' 05' 10' 15'

### REFERENCE NOTES SCHEDULE

| SYMBOL | DESCRIPTION | DETAIL |
|---|---|---|
| 1 | TURF SOD | |
| 2 | STONE MULCH - PLANTING | |
| 3 | COMPACTED STONE MULCH - WALKWAY | |
| 4 | PLAY SAND OVER FILTER FABRIC - 12" DEEP | |
| 5 | UNIQUE TREE PLANTING IN PLAY AREA | 5/LP1-02 |
| 6 | CONCRETE STEP - NATURAL | 6/LD5-01 |
| 7 | RESILIENT SURFACE - RUBBER 75% GRAY, 25% ROYAL BLUE | |
| 8 | RESILIENT SURFACE - RUBBER 75% BLACK, 25% GRAY | |
| 9 | RESILIENT SURFACE - RUBBER 75% ROYAL BLUE, 25% BLACK | |
| 10 | RESILIENT SURFACE - RUBBER 75% GRAY, 25% BLACK | |
| 11 | RESILIENT SURFACE - RUBBER 75% BLACK, 25% ROYAL BLUE | |
| 12 | RESILIENT SURFACE - RUBBER 75% ROYAL BLUE, 25% GRAY | |
| 13 | WOOD MULCH - 3" DEEP | |
| 14 | CONCRETE - INTEGRAL COLOR - TAN | |
| 15 | CONCRETE - INTEGRAL COLOR - SEPIA | |
| 16 | CONCRETE - INTEGRAL COLOR - DARK BROWN | |
| 17 | CAST-IN-PLACE - TRUNCATED DOME TILE | |
| 18 | CONCRETE - NATURAL - TEXTURE - TOOLED LONG | 8/LD5-01 |
| 19 | CONCRETE - NATURAL - TEXTURE - TOOLED SHORT | 8/LD5-01 |
| 20 | CONCRETE - NATURAL - TEXTURE - BROOMED FINISH | |
| 21 | RESILIENT SURFACING - ENGINEERED WOOD FIBER | |
| 22 | PLAYGROUND EDGE - ENGINEERRED WOOD FIBER | |
| 23 | PLAYGROUND EDGE - RESILIENT RUBBER SURFACE | |
| 24 | PLAYGROUND EDGE WOOD/RUBBER TRANSITION | |
| 25 | CONCRETE CURB WALL - 12" | 1/LD5-01 |
| 26 | CONCRETE CURB WALL SLOPED END | 2/LD5-01 |
| 27 | CONCRETE CURB WALL - 18" | 3/LD5-01 |
| 28 | CONCRETE CURB | 5/LD5-01 |
| 29 | BOULDER - SIZE VARIES 2`- 4` DIA | 12/LD5-01 |
| 30 | WATER HAND PUMP - SAND EDGE | 9/LD5-01 |
| 31 | WATER HAND PUMP - RUNNEL | 10/LD5-01 |
| 32 | CONCRETE RUNNEL - SAND EDGE | |
| 33 | EMBANKMENT SLIDE | 11/LD5-01 |
| 34 | PLAY POLE - RED | |
| 35 | PLAY POLE - ORANGE | |
| 36 | PLAY POLE - YELLOW | |
| 37 | PLAY POLE - GREEN | |
| 38 | PLAY POLE - BLUE | |
| 39 | PLAY POLE - INDIGO | |
| 40 | PLAY POLE - VIOLET | |
| 41 | PLAY POLE - BLACK | |
| 42 | TALK TUBE | |
| 43 | TUNED DRUMS | |
| 44 | PAGODA BELLS | |
| 45 | CHIMES | |
| 46 | IMBARIMBA | |
| 47 | PLAY SPINNER | |
| 48 | ROOF TOP TREE PLANTING | |
| 49 | ADJUSTABLE BASKETBALL STANDARD | 2/LD5-03 |
| 50 | RELOCATED PLAY EQUIPMENT. SEE SITE AND PHASING DRAWINGS. SEE SPECIFICATIONS SECTION 32 29 17 PLAYGROUND RELOCATION. | |
| 51 | ROOF TOP SHRUB PLANTING | |

### COURTYARD LAYOUT PLAN NOTES

1. See Sheet LS1-03 for Courtyard Dimension Plan.
2. Layout courtyard as shown. Contact Architect prior to any adjustments being made.
3. See Architectural and Civil plans for other layout information.
4. The North half of the courtyard has a rectilinear layout and the concrete joints are to be parallel and perpendicular . Score from corners and centered between elements. Equally space joints generally as shown.
5. The South half of the courtyard has a curvilinear layout and the concrete joints are to be parallel and perpendicular . Score from corners and centered between elements. Equally space joints generally as shown.

### DESIGN TEAM


JACOBY ARCHITECTS

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801 363 1434
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STATE OF UTAH
MARK W. VLASIC
NO. 4884491
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Checked By:

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State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

### ISSUE/PHASE

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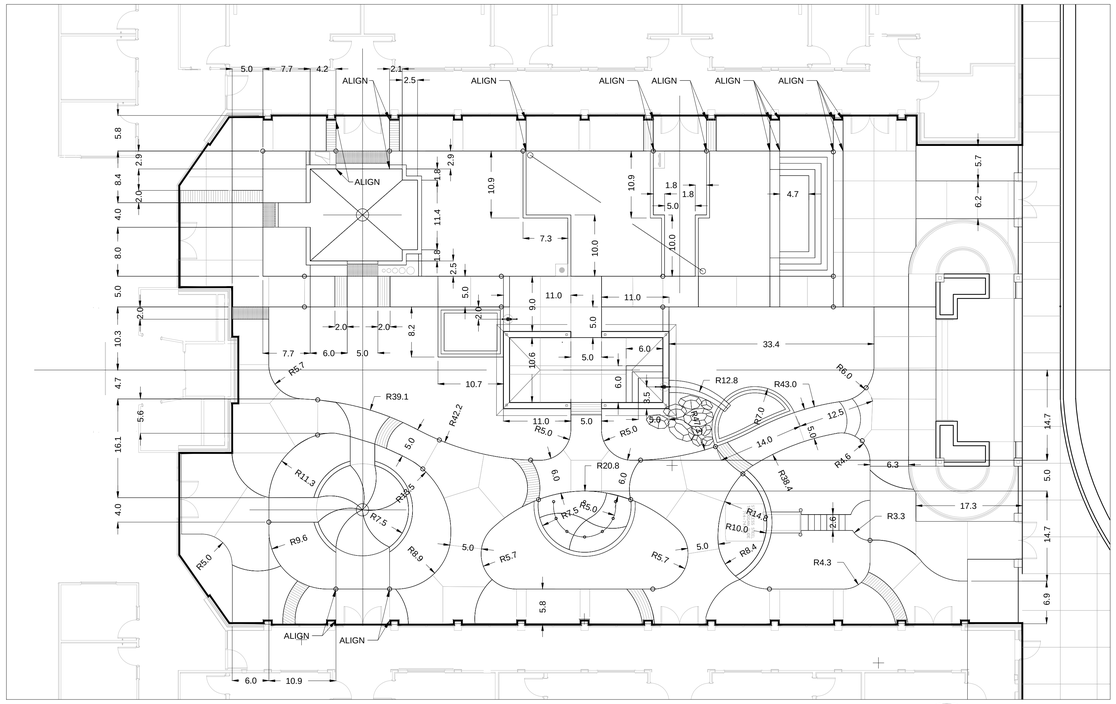
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

### CONSTRUCTION DOCUMENTS

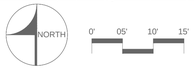
COURTYARD
LAYOUT PLAN

LS1-02

User: May 01, 2015 – 9:01am
P:\PROJECTS\LA_CURRENT\DFCM_USDB_2014\3 03 INFO\DFCM USDB SITE LAYOUT.dwg




# COURTYARD LAYOUT DIMENSION PLAN




COURTYARD DIMENSION PLAN NOTES

1. Dimensions are in feet.
2. Generally dimensions are to edges and center lines.
3. Layout courtyard using dimension shown. Contact Architect prior to any adjustments being made.
4. See Architectural and Civil plans for other layout information.

DESIGN TEAM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Utah 84111
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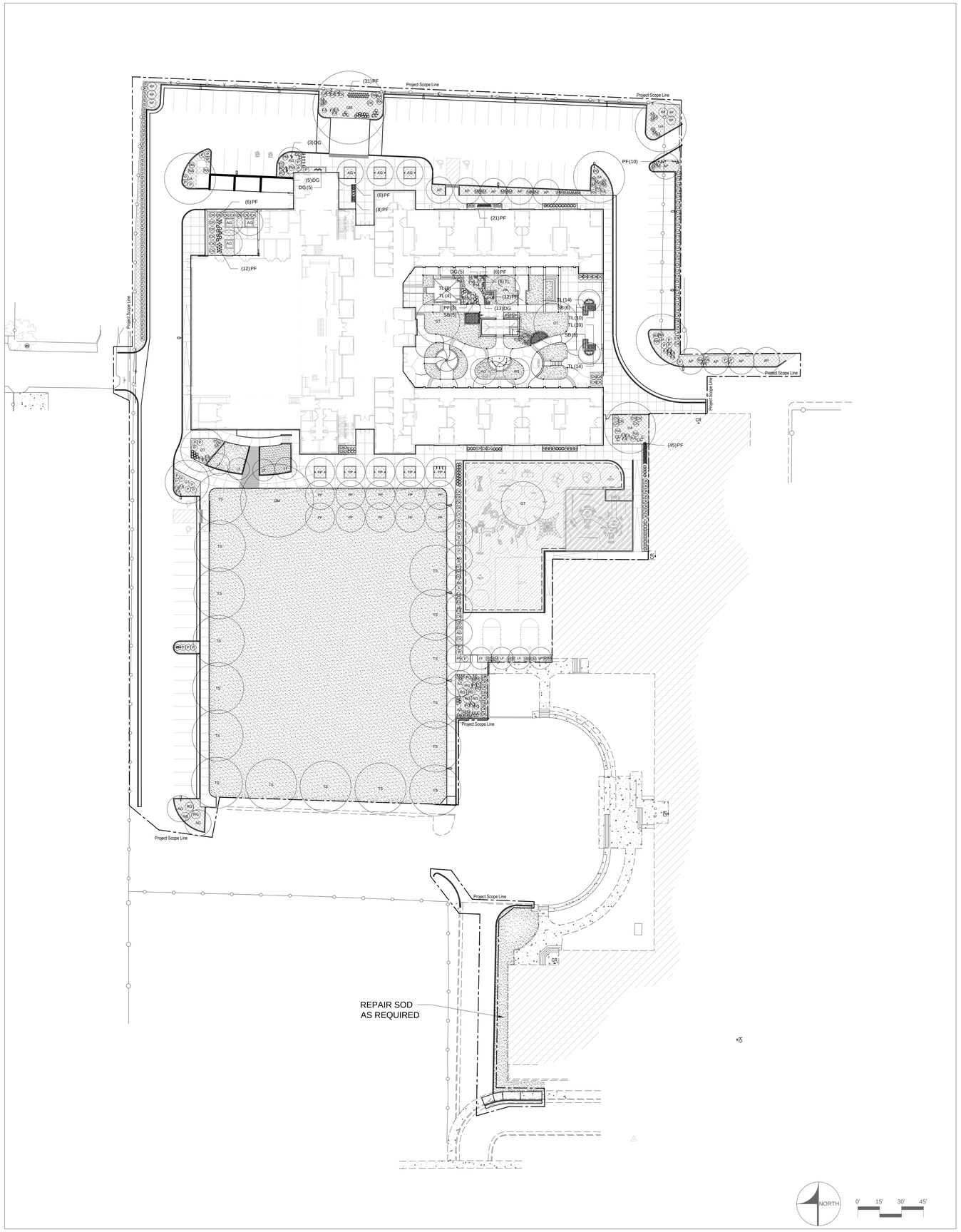
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

CONSTRUCTION DOCUMENTS

COURTYARD LAYOUT DIMENSION PLAN

LS1-03


User: May 01, 2015 - 8:58am
P:\PROJECTS\LA_CURRENT\DFCM_USDB_2014\3 CD INFO\DFCM USDB SITE COURTYARD DIMENSION.dwg




## PLANT SCHEDULE

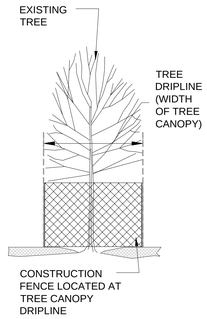
| TREES | QTY | BOTANICAL NAME | COMMON NAME | SIZE |
|---|---|---|---|---|
| AP | 10 | Acer tataricum `Pattern Perfect` | Pattern Perfect Tatarian Maple | 1.5" Cal. |
| AG | 19 | Amelanchier x grandiflora `Autumn Brilliance` | `Autumn Brilliance` Serviceberry | 1.5" Cal. |
| GT | 5 | Gleditsia triacanthos inermis `Shademaster` TM | Shademaster Locust | 2" Cal. |
| LF | 10 | Liriodendron tulipifera `Fastigiata` | Tulip Tree | 1.5" Cal. |
| PP | 16 | Pyrus calleryana `Redspire` | Redspire Callery Pear | 2" Cal. |
| QM | 2 | Quercus macrocarpa | Burr Oak | 2" Cal. |
| TS | 16 | Tilia tomentosa `Sterling` | Sterling Silver Linden | 2" Cal. |
| UA | 5 | Ulmus x `Accolade` | Accolade Elm | 2" Cal. |

| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | CONT |
|---|---|---|---|---|
| CK | 92 | Calamagrostis x acutiflora `Karl Foerster` | Feather Reed Grass | 5 gal |
| DG | 31 | Dianthus gratianopolitanus `Tiny Rubies` | Tiny Rubies Cheddar Pinks | 1 gal |
| FA | 22 | Forsythia x intermedia `Arnold`s Dwarf` | Dwarf Forsythia | 5 gal |
| H | 17 | Helictotrichon sempervirens | Blue Oat Grass | 1 gal |
| D | 41 | Hemerocallis x `Stella de Oro` | Stella de Oro Daylily | 1 gal |
| JH | 3 | Juniperus horizontalis `Hughes` | Hughes Juniper | 5 gal |
| L | 40 | Lavandula angustifolia `Munstead` | Munstead English Lavender | 1 gal |
| M | 73 | Mahonia repens | Creeping Mahonia | 1 gal |
| PF | 162 | Pennisetum setaceum | Purple Fountain Grass | 1 gal |
| PO | 14 | Physocarpus opulifolius `Little Devil` | Little Devil Ninebark | 5 gal |
| PM | 6 | Pinus mugo pumilio | Dwarf Mugo Pine | 5 gal |
| P | 34 | Prunus besseyi `Pawnee Buttes` | Sand Cherry | 5 gal |
| R | 60 | Rhamnus frangula `Columnaris` | Alder Buckthorn | 5 gal |
| RG | 8 | Rhus aromatica `Gro-Low` | Gro-Low Fragrant Sumac | 5 gal |
| RA | 18 | Ribes alpinum `Green Mound` | Green Mound Alpine Currant | 5 gal |
| RF | 6 | Rosa foetida bicolor | Austrian Copper Rose | 5 gal |
| G | 39 | Schizachyrium scoparium | Little Bluestem Grass | 1 gal |
| S | 5 | Spiraea nipponica `Snowmound` | Snowmound Spirea | 5 gal |
| SB | 17 | Stachys byzantina | Lamb`s Ear | 4"pot |
| TL | 66 | Thymus x citriodorus | Lemon Thyme | 4"pot |

| GROUND COVERS | QTY | BOTANICAL NAME | COMMON NAME | CONT | SPACING |
|---|---|---|---|---|---|
| TURF 1 | 40,518 sf | Poa pratensis | Kentucky Bluegrass | sod | |

LANDSCAPE NOTES:

1. THE LANDSCAPE CONTRACTOR MUST EXAMINE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE IN WRITING OF ANY UNSATISFACTORY CONDITIONS. DO NOT PROCEED UNTIL CONDITIONS HAVE BEEN CORRECTED.
2. BEFORE ANY EXCAVATION CONTACT "BLUE STAKES" OR NOTIFY APPROPRIATE UTILITY COMPANIES, AND COORDINATE WITH THE GENERAL CONTRACTOR FOR THE LOCATION OF UTILITIES, SLEEVES, CONDUITS, ETC.
3. THE LANDSCAPE CONTRACTOR MUST COORDINATE WITH ALL OTHER ASSOCIATED TRADES TO BEST FACILITATE PROGRESS ON THE JOB.
4. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FINISH GRADE ELEVATIONS IN LANDSCAPED AREAS. COORDINATE WITH GENERAL CONTRACTOR FOR ROUGH GRADING ELEVATIONS. ALLOW FOR 3" OF MULCH.
5. ALL PLANT MATERIALS MUST MEET SIZES INDICATED IN SCHEDULES. THE OWNER'S AUTHORIZED REPRESENTATIVE RESERVES THE RIGHT TO REFUSE PLANT MATERIALS WHICH DO NOT MEET THE QUALITY REQUIRED OF THE PROJECT.
6. ANY PLANT QUANTITIES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. CONTRACTOR TO VERIFY ALL PLANT QUANTITIES REQUIRED AND PROVIDE THE PLANTS NECESSARY TO COMPLETE THE PLANTINGS.
7. TOPSOIL IS REQUIRED; 6" MINIMUM DEPTH IN TURF AREAS AND 12" MINIMUM DEPTH IN ALL SHRUB, GROUNDCOVER, GRASS, AND PERENNIAL AREAS.
8. EXISTING TREES TO REMAIN SHALL BE PROTECTED SEE SPECIFICATION TEMPORARY TREE AND PLANT PROTECTION SECTION 01 56 32.
9. MULCH - PLACE BARK MULCH 4" DEEP X 4' DIAMETER AROUND ALL TREES IN SOD AREAS. PLACE STONE MULCH 3" DEEP IN PLANTER AREAS.




EXISTING TREE PROTECTION

1. EXISTING TREES WITHIN CONTRACT LIMIT LINE SHALL BE PROTECTED WITH A TREE PROTECTION FENCE.
2. CONTRACTOR TO SUBMIT A TREE PROTECTION PLAN FOR APPROVAL. PLAN TO INCLUDE METHODS OF FENCING, EMPLOYEE EDUCATION, SIGNAGE, TEMPORARY IRRIGATION, ETC.
3. ENGAGE A CERTIFIED ARBORIST FOR ANY REQUIRED PRUNING, ANALYSIS, AND RECOMMENDATIONS. ARBORIST MUST VISIT THE PROJECT AT LEAST MONTHLY AND PROVIDE AN OBSERVATION REPORT.
4. PROVIDE FENCING (4' MINIMUM HEIGHT) AND SIGNAGE INDICATING THE FENCE IS FOR TREE PROTECTION; INCLUDE THE CONTRACTOR'S AND ARBORIST'S CONTACT INFORMATION.
5. PROVIDE TEMPORARY IRRIGATION. CONTRACTOR TO WATER AS CONDITIONS REQUIRE AT THE RECOMMENDATIONS OF THE ARBORIST.
6. PROVIDE ROOT PROTECTION MULCH FOR ANY TEMPORARY NECESSARY CONSTRUCTION ACTIVITY WITHIN THE TREE PROTECTION FENCE.
7. DO NOT EXCAVATE OR GRADE WITHIN DRIPLINE OF TREE.
8. DO NOT STORE OR PLACE CONSTRUCTION MATERIALS, VEHICLES, OR MACHINERY WITHIN THE FENCED PROTECTION AREA.
9. TREE PROTECTION FENCING MUST BE IN PLACE BEFORE DEMOLITION AND GRADING ACTIVITIES BEGIN.

1 TEMPORARY TREE PROTECTION

P-USDB-32

DESIGN TEAM

JACOBY ARCHITECTS

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NO. 4884491
5/11/2015
LICENSED LANDSCAPE ARCHITECT

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SHEET DATA

Drawn By:

Checked By:

PROJECT

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

ISSUE/PHASE

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| 2014 10 09 | Schematic Design |
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| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
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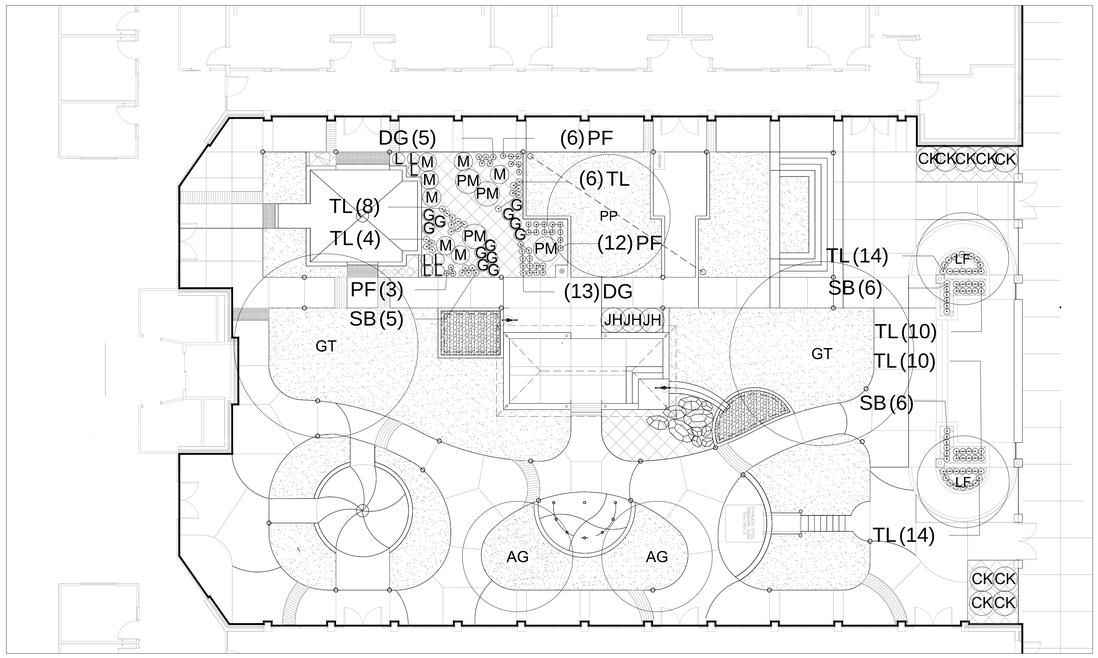
| 2015 05 21 | Bidding Documents |

CONSTRUCTION DOCUMENTS

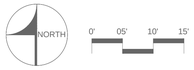
OVERALL
LANDSCAPE PLAN

LP1-01

User: May 01, 2015 - 8:54am
P:\PROJECTS\LA_CURRENT\DFCM_USDB_2014\3 CD INFO\DFCM USDB SITE LANDSCAPE.dwg




## COURTYARD LANDSCAPE PLAN

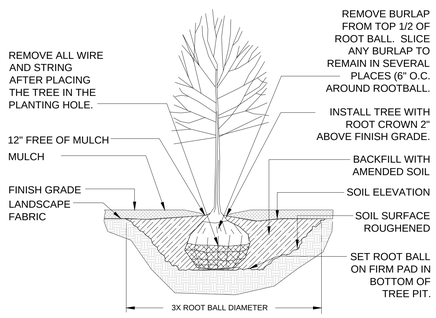



## PLANT SCHEDULE

| TREES | QTY | BOTANICAL NAME | COMMON NAME | SIZE |
|---|---|---|---|---|
| AP | 10 | Acer tataricum `Pattern Perfect` | Pattern Perfect Tatarian Maple | 1.5" Cal. |
| AG | 19 | Amelanchier x grandiflora `Autumn Brilliance` | `Autumn Brilliance` Serviceberry | 1.5" Cal. |
| GT | 5 | Gleditsia triacanthos inermis `Shademaster` TM | Shademaster Locust | 2" Cal. |
| LF | 10 | Liriodendron tulipifera `Fastigiata` | Tulip Tree | 1.5" Cal. |
| PP | 16 | Pyrus calleryana `Redspire` | Redspire Callery Pear | 2" Cal. |
| QM | 2 | Quercus macrocarpa | Burr Oak | 2" Cal. |
| TS | 16 | Tilia tomentosa `Sterling` | Sterling Silver Linden | 2" Cal. |
| UA | 5 | Ulmus x `Accolade` | Accolade Elm | 2" Cal. |

| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | CONT |
|---|---|---|---|---|
| CK | 92 | Calamagrostis x acutiflora `Karl Foerster` | Feather Reed Grass | 5 gal |
| DG | 31 | Dianthus gratianopolitanus `Tiny Rubies` | Tiny Rubies Cheddar Pinks | 1 gal |
| FA | 22 | Forsythia x intermedia `Arnold`s Dwarf` | Dwarf Forsythia | 5 gal |
| H | 17 | Helictotrichon sempervirens | Blue Oat Grass | 1 gal |
| D | 41 | Hemerocallis x `Stella de Oro` | Stella de Oro Daylily | 1 gal |
| JH | 3 | Juniperus horizontalis `Hughes` | Hughes Juniper | 5 gal |
| L | 40 | Lavandula angustifolia `Munstead` | Munstead English Lavender | 1 gal |
| M | 73 | Mahonia repens | Creeping Mahonia | 1 gal |
| PF | 162 | Pennisetum setaceum | Purple Fountain Grass | 1 gal |
| PO | 14 | Physocarpus opulifolius `Little Devil` | Little Devil Ninebark | 5 gal |
| PM | 6 | Pinus mugo pumilio | Dwarf Mugo Pine | 5 gal |
| P | 34 | Prunus besseyi `Pawnee Buttes` | Sand Cherry | 5 gal |
| R | 60 | Rhamnus frangula `Columnaris` | Alder Buckthorn | 5 gal |
| RG | 8 | Rhus aromatica `Gro-Low` | Gro-Low Fragrant Sumac | 5 gal |
| RA | 18 | Ribes alpinum `Green Mound` | Green Mound Alpine Currant | 5 gal |
| RF | 6 | Rosa foetida bicolor | Austrian Copper Rose | 5 gal |
| G | 39 | Schizachyrium scoparium | Little Bluestem Grass | 1 gal |
| S | 5 | Spiraea nipponica `Snowmound` | Snowmound Spirea | 5 gal |
| SB | 17 | Stachys byzantina | Lamb`s Ear | 4"pot |
| TL | 66 | Thymus x citriodorus | Lemon Thyme | 4"pot |

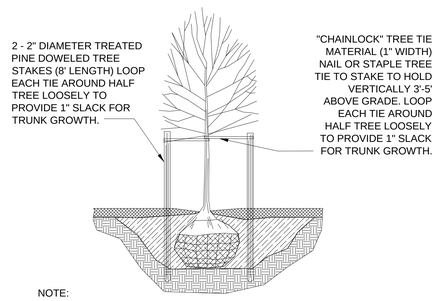
| GROUND COVERS | QTY | BOTANICAL NAME | COMMON NAME | CONT | SPACING |
|---|---|---|---|---|---|
| TURF 1 | 40,518 sf | Poa pratensis | Kentucky Bluegrass | sod | |




THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING.
MIX EXISTING EXCAVATED SOIL WITH 5 CU FT OF ORGANIC MULCH AMENDMENT THROUGH OUT ENTIRE TREE PIT.

### 1 DECIDUOUS TREE PLANTING

P-USDB-Ø5



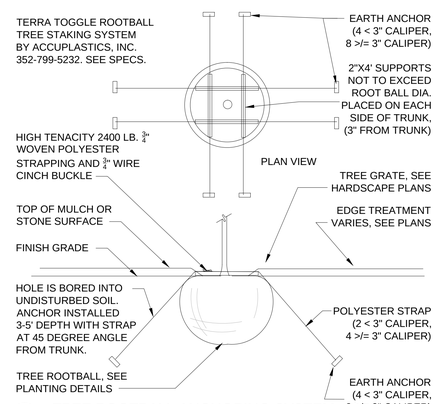

NOTE:

ANY STAKING WILL BE IN ACCORDANCE WITH CURRENT HORTICULTURE PRACTICE. STAKING OF TREES WILL BE WITH WOODEN STAKES PLACED OUTSIDE OF THE ROOT BALL

SEE DETAILS FOR TREE PLANTING

### 2 TREE STAKING (DECIDUOUS)

P-USDB-Ø3



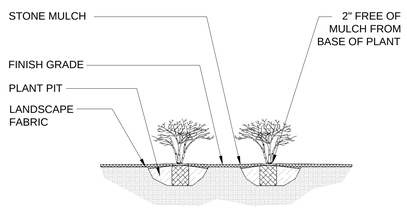

### 3 TREE ROOTBALL ANCHORING SYSTEM

P-USDB-31

MIX EXISTING EXCAVATED SOIL WITH ORGANIC AMENDMENT FOR BACKFILL AT THE FOLLOWING RATES:

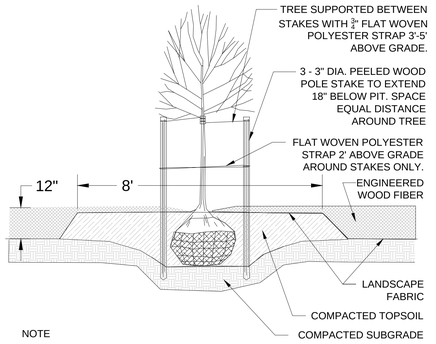
5 GALLON 0.25 CU FT AMENDMENT
1 GALLON 0.10 CU FT AMENDMENT

SOAK TOPSOIL AND ALLOW TO PERCOLATE PRIOR TO PLANTING. SET PLANT AT SAME RELATIONSHIP TO FINISH GRADE AS IN CONTAINER.




### 4 SHRUB PLANTING

P-USDB-Ø1




NOTE

SEE DETAILS FOR TREE PLANTING

### 5 TREE PLANTING IN PLAYGROUND

P-USDB-51

User: May 01, 2015 – 8:50am
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DESIGN TEAM

JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

Landmark Design
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| Food Service: - | Jedrziewski Designs - 801.582.9747 |

STAMP

STATE OF UTAH
MARK W. VLASIC
NO. 4884491
5/11/2015
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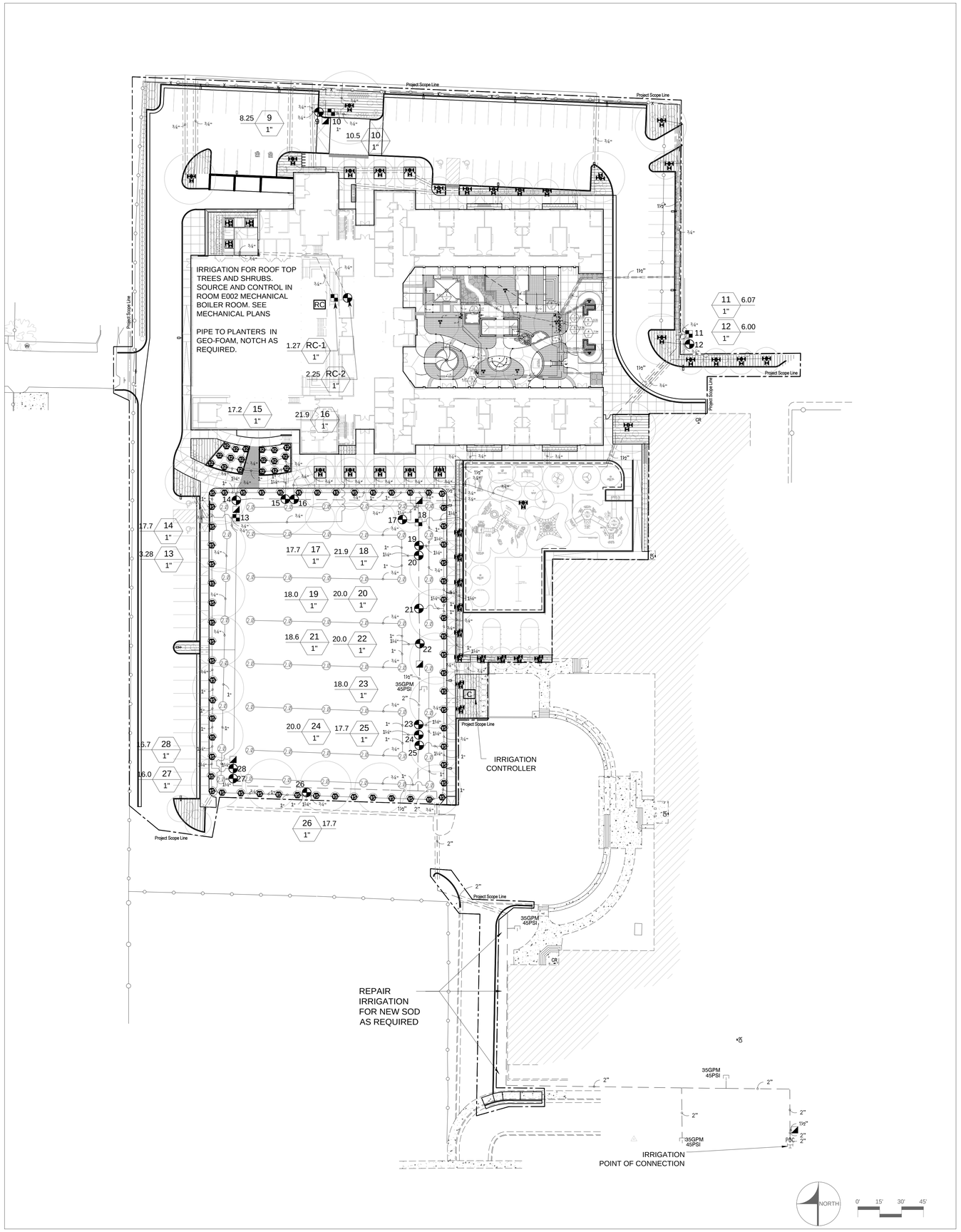
COURTYARD LANDSCAPE PLAN

LP1-02




## IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | PSI |
|---|---|---|
| 15 Q, 16 T, 17 H, 18 F | Hunter PROS-06-NSI-PRS30 10` radius<br>Turf Spray, 30 psi regulated 6.0" Pop-Up. Co-molded wiper seal with UV Resistant Material. No Side Inlet. | 30 |
| 19 Q, 20 T, 21 H, 22 TT, 23 TQ, 24 F | Hunter PROS-06-NSI-PRS30 12` radius<br>Turf Spray, 30 psi regulated 6.0" Pop-Up. Co-molded wiper seal with UV Resistant Material. No Side Inlet. | 30 |
| 25 Q, 26 T, 27 H, 28 TT, 29 TQ, 30 F | Hunter PROS-06-NSI-PRS30 15` radius<br>Turf Spray, 30 psi regulated 6.0" Pop-Up. Co-molded wiper seal with UV Resistant Material. No Side Inlet. | 30 |
| 14, 15, 16, 17, 18, 19, 20 | Hunter PROS-06-NSI-PRS30 ADJ<br>Turf Spray, 30 psi regulated 6.0" Pop-Up. Co-molded wiper seal with UV Resistant Material. No Side Inlet. | 30 |
| H | Hunter RZWS-SLEEVE-18-25<br>18" long RZWS with Filter Fabric Sleeve, 0.25 GPM bubbler, 1/2" swing joint for connection to 1/2" pipe | 30 |

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | PSI | GPM | RADIUS |
|---|---|---|---|---|
| 2.8 | Hunter I-20-06-SS<br>Turf Rotor, 6.0" Pop-Up. Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle. | 45 | 2.00 | 30' |

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|---|---|
| | Hunter ICZ-101-40<br>Drip Control Zone Kit. 1" ICV Globe Valve with 1" HY100 filter system. Pressure Regulation: 40psi. Flow Range: 2 GPM to 20 GPM. 150 mesh stainless steel screen. |
| | Area to Receive Dripline<br>Hunter PLD-04-18 (18)<br>In-Line Pressure Compensating Landscape Dripline with Built-In Check Valve. 0.4GPH emitters at 18.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant. |
| | Area to Receive Dripline<br>Hunter Eco-Mat and PLD-ESD<br>Fleece wrapped inline emitter tubing, with the blanket Eco-Mat. Evenly disperses water from under the surface. 0.6GPH emitters at 12.0" O.C. Dripline laterals spaced at 14.0" apart, with emitters offset for triangular pattern. |

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
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| | Hunter ICV-G-FS<br>1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With Filter Sentry. |
| | Hunter HQ-44LRC<br>Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with 1" NPT inlet, 2-piece body. |
| C | Hunter ACC-3000-PP<br>30 Station Outdoor Modular Controller. With three ACM-600 module. High-End Commercial Use. Plastic Pedestal. |
| RC | Hunter PC-400i<br>Controller in Room E002 for rooftop planting. Light Commercial & Residential Controller, 4-station base module controller, 120 VAC, Indoor model. |
| X X | Cap for future use<br>Cap at the mainline or lateral line for future use. The pressure and flow provided to that location are indicated next to the cap symbol. |
| | Irrigation Lateral Line: PVC Schedule 40<br>PVC Schedule 40 irrigation pipe. |
| | Irrigation Mainline: PVC Schedule 40 |
| | Pipe Sleeve: PVC Schedule 40<br>Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction. |

Valve Callout
- Valve Number
- Valve Flow
- Valve Size

## IRRIGATION NOTES:

1. THE IRRIGATION CONTRACTOR MUST EXAMINE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE IN WRITING OF UNSATISFACTORY CONDITIONS. DO NOT PROCEED UNTIL CONDITIONS HAVE BEEN CORRECTED.
2. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO BE FAMILIAR WITH ALL GRADE DIFFERENCES. LOCATION OF WALKS, WALLS, STRUCTURES, AND UTILITIES. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY THE WORK PERFORMED.
3. BEFORE ANY TRENCHING, EXCAVATION OR DIGGING FOR ANY REASON THE CONTRACTOR SHALL HAVE THE AREA 'BLUE STAKED' AND CONTACT THE APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR WILL CONDUCT THE WORK IN SUCH A MANNER TO PROTECT ALL UTILITIES FROM DAMAGES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE ANY DAMAGE AT NO EXPENSE TO THE OWNER.
4. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN 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.
5. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
6. ALL MAIN LINES TO BE PVC SCH 40. ALL MAIN LINES TO BE BURIED TO A DEPTH OF 18". LATERAL LINES SHALL BE SCHEDULE 40 PVC BURIED TO A DEPTH OF 12". MINIMUM SIZE FOR LATERAL LINES IS 3/4".
7. MAIN AND LATERAL LINES SHOWN ON PLANS ARE DIAGRAMMATIC ONLY. ALL PIPES LAIN IN COMMON TRENCHES MUST HAVE SEPARATION AS DETAILED. PLACE PIPES IN LANDSCAPED AREAS WHEN FEASIBLE. IRRIGATION CONTRACTOR TO COORDINATE WITH LANDSCAPE CONTRACTOR ON PLACEMENT OF TREES AND LARGE SHRUBS PRIOR TO IRRIGATION INSTALLATION. DO NOT PLACE IRRIGATION LINES WITHIN 3 FEET OF TREES.
8. CONTROL WIRES NOT LAIN IN A COMMON TRENCH WITH MAINLINE SHALL BE INSTALLED IN CONDUIT OF SUFFICIENT SIZE. CONTROL WIRES TO BE PLACED IN SEPARATE SLEEVE FROM IRRIGATION LINES. ALL CONTROL WIRES TO BE LABELED WITH ZONE NUMBER AT CONTROLLER AND VALVE.
9. THE IRRIGATION CONTRACTOR SHALL SUPPLY THE OWNER'S AUTHORIZED REPRESENTATIVE AT FINAL INSPECTION WITH COMPLETE 'RED LINE DRAWINGS', WRITTEN START-UP AND SHUT-DOWN PROCEDURES, A COMPLETE MATERIALS LIST, AS WELL AS NAMES, ADDRESSES, AND PHONE NUMBERS OF THE CONTRACTORS AND LOCAL DISTRIBUTORS OF THE VARIOUS MATERIALS USED.
10. THE IRRIGATION CONTRACTOR SHALL MAKE THE ELECTRICAL CONNECTION FROM THE NEW VALVES TO THE CONTROLLER. IRRIGATION RUN TIMES SHALL BE SET BY THE CONTRACTOR.
11. PLACE SPARE WIRES ALONG OTHER WIRES. LOOP SPARE WIRE THROUGH ALL VALVE BOXES AND LABEL AS SPARE. ALL SPARE WIRES TO BE CONTINUOUS TO THE CONTROLLER. TWO (2) SPARE HOT WIRES TO BE RUN TO FURTHEST VALVE BOX ON EACH WIRE RUN AND LABELED AS SPARE FOR EACH CONTROLLER. TWO (2) GROUND WIRES WILL ALSO BE RUN TO THE FURTHEST VALVE BOX ON EACH WIRE RUN FOR EACH CONTROLLER. THE PRIMARY GROUND WIRE WILL BE WHITE AND THE SPAR ES WILL BE BLUE.
12. NEW CONTROLLERS TO BE CONNECTED BY CONTRACTOR. CONTRACTOR TO PROVIDE AND INSTALL NECESSARY HARDWARE.

DESIGN TEAM


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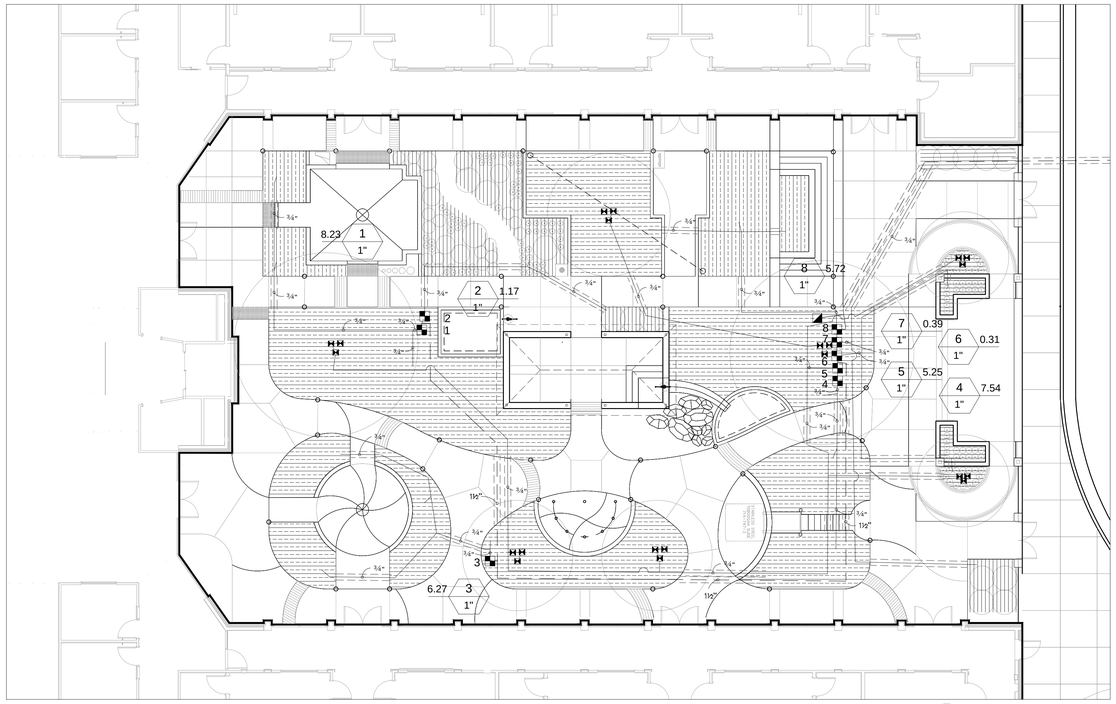


# COURTYARD IRRIGATION PLAN

## IRRIGATION SCHEDULE

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Valve Callout

#◆ — Valve Number
#● — Valve Flow
#"● — Valve Size

## VALVE SCHEDULE

| NUMBER | MODEL | SIZE | TYPE | WIRE | PSI | PSI @ POC | GPM | HEAD ELEV | VALVE ELEV | PRECIP |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Hunter ICZ-101-40 | 1" | Area for Dripline | | 55.54 | 57.45 | 8.23 | 0.00 ft | 0.00 ft | 0.87 in/h |
| 2 | Hunter ICZ-101-40 | 1" | Area for Dripline | | 43.02 | 43.08 | 1.17 | 0.00 ft | 0.00 ft | 0.30 in/h |
| 3 | Hunter ICZ-101-40 | 1" | Area for Dripline | | 53.51 | 54.61 | 6.27 | 0.00 ft | 0.00 ft | 0.87 in/h |
| 4 | Hunter ICZ-101-40 | 1" | Area for Dripline | | 54.78 | 56.14 | 7.54 | 0.00 ft | 0.00 ft | 0.87 in/h |
| 5 | Hunter ICZ-101-40 | 1" | Bubbler | | 42.91 | 43.60 | 5.25 | 0.00 ft | 0.00 ft | 8.98 in/h |
| 6 | Hunter ICZ-101-40 | 1" | Area for Dripline | | 43.00 | 43.01 | 0.31 | 0.00 ft | 0.00 ft | 0.30 in/h |
| 7 | Hunter ICZ-101-40 | 1" | Area for Dripline | | 43.00 | 43.01 | 0.39 | 0.00 ft | 0.00 ft | 0.30 in/h |
| 8 | Hunter ICZ-101-40 | 1" | Area for Dripline | | 53.88 | 54.69 | 5.72 | 0.00 ft | 0.00 ft | 0.87 in/h |
| 9 | Hunter ICV-G-FS | 1" | Bubbler | | 37.18 | 39.42 | 8.25 | 0.00 ft | 0.00 ft | 7.66 in/h |
| 10 | Hunter ICZ-101-40 | 1" | Area for Dripline | | 51.72 | 55.20 | 10.47 | 0.00 ft | 0.00 ft | 0.30 in/h |
| 11 | Hunter ICZ-101-40 | 1" | Area for Dripline | | 43.78 | 44.52 | 6.07 | 0.00 ft | 0.00 ft | 0.30 in/h |
| 12 | Hunter ICV-G-FS | 1" | Bubbler | | 33.10 | 33.82 | 6.00 | 0.00 ft | 0.00 ft | 7.66 in/h |
| 13 | Hunter ICZ-101-40 | 1" | Area for Dripline | | 43.26 | 43.44 | 3.28 | 0.00 ft | 0.00 ft | 0.30 in/h |
| 14 | Hunter ICV-G-FS | 1" | Turf Spray | | 35.25 | 39.22 | 17.71 | 0.00 ft | 0.00 ft | 1.05 in/h |
| 15 | Hunter ICV-G-FS | 1" | Turf Spray | | 35.16 | 38.59 | 17.16 | 0.00 ft | 0.00 ft | 1.88 in/h |
| 16 | Hunter ICV-G-FS | 1" | Bubbler | | 39.43 | 44.72 | 21.86 | 0.00 ft | 0.00 ft | 0.30 in/h |
| 17 | Hunter ICV-G-FS | 1" | Turf Spray | | 35.52 | 38.26 | 17.71 | 0.00 ft | 0.00 ft | 1.05 in/h |
| 18 | Hunter ICZ-101-40 | 1" | Area for Dripline | | 81.52 | 85.40 | 21.86 | 0.00 ft | 0.00 ft | 0.30 in/h |
| 19 | Hunter ICV-G-FS | 1" | Turf Rotor | | 52.45 | 55.01 | 18.00 | 0.00 ft | 0.00 ft | 0.57 in/h |
| 20 | Hunter ICV-G-FS | 1" | Turf Rotor | | 51.56 | 54.59 | 20.00 | 0.00 ft | 0.00 ft | 0.23 in/h |
| 21 | Hunter ICV-G-FS | 1" | Turf Spray | | 34.75 | 37.02 | 18.60 | 0.00 ft | 0.00 ft | 1.02 in/h |
| 22 | Hunter ICV-G-FS | 1" | Turf Rotor | | 51.59 | 53.90 | 20.00 | 0.00 ft | 0.00 ft | 0.23 in/h |
| 23 | Hunter ICV-G-FS | 1" | Turf Rotor | | 52.67 | 54.19 | 18.00 | 0.00 ft | 0.00 ft | 0.56 in/h |
| 24 | Hunter ICV-G-FS | 1" | Turf Rotor | | 51.56 | 53.39 | 20.00 | 0.00 ft | 0.00 ft | 0.23 in/h |
| 25 | Hunter ICV-G-FS | 1" | Turf Spray | | 35.59 | 37.03 | 17.71 | 0.00 ft | 0.00 ft | 1.05 in/h |
| 26 | Hunter ICV-G-FS | 1" | Turf Spray | | 34.78 | 36.90 | 17.71 | 0.00 ft | 0.00 ft | 1.05 in/h |
| 27 | Hunter ICV-G-FS | 1" | Turf Rotor | | 53.53 | 55.68 | 16.00 | 0.00 ft | 0.00 ft | 0.57 in/h |
| 28 | Hunter ICV-G-FS | 1" | Turf Spray | | 36.16 | 38.56 | 16.74 | 0.00 ft | 0.00 ft | 0.97 in/h |
| RC-1 | Hunter ICZ-101-40 | 1" | Area for Dripline | | 43.19 | | 1.27 | 0.00 ft | 0.00 ft | 0.30 in/h |
| RC-2 | Hunter ICV-G-FS | 1" | Bubbler | | 32.79 | | 2.25 | 0.00 ft | 0.00 ft | 7.66 in/h |
| | Common Wire | | | 3,900 | | | | | | |

## WATERING SCHEDULE - ESTABLISHMENT

| NUMBER | MODEL | TYPE | PRECIP | SUN | MON | TUE | WED | THU | FRI | SAT | IN./WEEK | MIN./WEEK | GAL./WEEK | GAL./DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Hunter ICZ-101-40 | Area for Dripline | 0.87 in/h | | | 87 min | | | | 87 min | 2.50 | 174 | 1,432 | 715.8 |
| 2 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 252 min | | | | 252 min | 2.50 | 503 | 591.0 | 295.5 |
| 3 | Hunter ICZ-101-40 | Area for Dripline | 0.87 in/h | | | 87 min | | | | 87 min | 2.50 | 174 | 1,092 | 545.9 |
| 4 | Hunter ICZ-101-40 | Area for Dripline | 0.87 in/h | | | 87 min | | | | 87 min | 2.50 | 174 | 1,312 | 656.1 |
| 5 | Hunter ICZ-101-40 | Bubbler | 8.98 in/h | | | 17 min | | | | | 2.50 | 17 | 89.3 | 89.3 |
| 6 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 252 min | | | | 252 min | 2.50 | 503 | 156.1 | 78.0 |
| 7 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 252 min | | | | 252 min | 2.50 | 503 | 194.9 | 97.5 |
| 8 | Hunter ICZ-101-40 | Area for Dripline | 0.87 in/h | | | 87 min | | | | 87 min | 2.50 | 174 | 994.5 | 497.3 |
| 9 | Hunter ICV-G-FS | Bubbler | 7.66 in/h | | | 20 min | | | | | 2.50 | 20 | 165 | 165 |
| 10 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 252 min | | | | 252 min | 2.50 | 503 | 5,265 | 2,633 |
| 11 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 252 min | | | | 252 min | 2.50 | 503 | 3,051 | 1,526 |
| 12 | Hunter ICV-G-FS | Bubbler | 7.66 in/h | | | 20 min | | | | | 2.50 | 20 | 120 | 120 |
| 13 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 252 min | | | | 252 min | 2.50 | 503 | 1,652 | 825.9 |
| 14 | Hunter ICV-G-FS | Turf Spray | 1.05 in/h | | 48 min | | 48 min | | 48 min | | 2.50 | 144 | 2,550 | 850.1 |
| 15 | Hunter ICV-G-FS | Turf Spray | 1.88 in/h | | 27 min | | 27 min | | 27 min | | 2.50 | 80 | 1,373 | 457.6 |
| 16 | Hunter ICV-G-FS | Bubbler | 0.30 in/h | | | 503 min | | | | | 2.50 | 503 | 10,993 | 10,993 |
| 17 | Hunter ICV-G-FS | Turf Spray | 1.05 in/h | | 48 min | | 48 min | | 48 min | | 2.50 | 143 | 2,533 | 844.2 |
| 18 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 252 min | | | | 252 min | 2.50 | 503 | 10,993 | 5,497 |
| 19 | Hunter ICV-G-FS | Turf Rotor | 0.57 in/h | | 88 min | | 88 min | | 88 min | | 2.50 | 263 | 4,734 | 1,578 |
| 20 | Hunter ICV-G-FS | Turf Rotor | 0.23 in/h | | 218 min | | 218 min | | 218 min | | 2.50 | 653 | 13,060 | 4,353 |
| 21 | Hunter ICV-G-FS | Turf Spray | 1.02 in/h | | 50 min | | 50 min | | 50 min | | 2.50 | 148 | 2,753 | 917.6 |
| 22 | Hunter ICV-G-FS | Turf Rotor | 0.23 in/h | | 216 min | | 216 min | | 216 min | | 2.50 | 648 | 12,960 | 4,320 |
| 23 | Hunter ICV-G-FS | Turf Rotor | 0.56 in/h | | 90 min | | 90 min | | 90 min | | 2.50 | 269 | 4,842 | 1,614 |
| 24 | Hunter ICV-G-FS | Turf Rotor | 0.23 in/h | | 220 min | | 220 min | | 220 min | | 2.50 | 658 | 13,160 | 4,387 |
| 25 | Hunter ICV-G-FS | Turf Spray | 1.05 in/h | | 48 min | | 48 min | | 48 min | | 2.50 | 143 | 2,533 | 844.2 |
| 26 | Hunter ICV-G-FS | Turf Spray | 1.05 in/h | | 48 min | | 48 min | | 48 min | | 2.50 | 143 | 2,533 | 844.2 |
| 27 | Hunter ICV-G-FS | Turf Rotor | 0.57 in/h | | 88 min | | 88 min | | 88 min | | 2.50 | 262 | 4,192 | 1,397 |
| 28 | Hunter ICV-G-FS | Turf Spray | 0.97 in/h | | 52 min | | 52 min | | 52 min | | 2.50 | 155 | 2,595 | 864.9 |
| RC-1 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 252 min | | | | 252 min | 2.50 | 503 | 640.5 | 320.3 |
| RC-2 | Hunter ICV-G-FS | Bubbler | 7.66 in/h | | | 20 min | | | | | 2.50 | 20 | 45 | 45 |
| | | TOTALS: | | | 1,241 | 2,944 | 1,241 | | 1,241 | 2,364 | | 9,009 | 108,603 | 48,372 |

WATERING SCHEDULE IS A GUIDE ONLY.
IRRIGATION RUN TIMES WILL BE SET BY THE CONTRACTOR WITH COORDINATION BETWEEN THE OWNER AND THE CONTROLLER SYSTEMS REPRESENTATIVE.

## WATER BUDGET LANDSCAPE ANALYSIS

Based on EPA WaterSense Water Budget Tool

Peak Water Month = July
ETo informaiton from Estimated Monthly ETo for Salt Lake (Airport) = 5.39

BASELINE WATER USE = ETo x A x Cu

ETo = Local reference evapotranspiration (in/mo) = 5.39 in/mo
A = Landscape area (sq ft) = 50,450 sq ft
Cu = Conversion factor = 0.6233 gal/mo

BASELINE WATER USE = 169,500 GALLONS/ MONTH

WATER ALLOWANCE = 0.70 X BASELINE

WATER ALLOWANCE = 118,650 GALLONS/MONTH

LANDSCAPE WATER REQUIREMENT CALCULATIONS

| Hydrozone/Landscape (SQ FT) | Plant Type | Landscape Coefficient (KL) | Irrigation Type | Target DU (DU) | Estimated Water Requirement (gal/mo) |
|---|---|---|---|---|---|
| 36,220 | Turfgrass | 0.7 | Rotor/Spray | 70% | 121,610 |
| 2,930 | Turfgrass | 0.7 | Drip | 70% | 9,838 |
| 11,300 | Shrubs | 0.2 | Drip | 70% | 10,822 |
| 50,450 TOTAL LANDSCAPE SQ FT | | | | | 142,270 TOTAL GAL/MO |

ANALYSIS
The landscape water requirements exceeds the landscape water allowance.
The designed landscape water requirement is a 16% reduction in water use from the baseline calculated.
The 16% reduction does not meet the 30% goal because of the large turfgrass play field associated with the school setting.

## WATERING SCHEDULE - ESTABLISHED

| NUMBER | MODEL | TYPE | PRECIP | SUN | MON | TUE | WED | THU | FRI | SAT | IN./WEEK | MIN./WEEK | GAL./WEEK | GAL./DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Hunter ICZ-101-40 | Area for Dripline | 0.87 in/h | | | 52 min | | | | 52 min | 1.50 | 104 | 855.7 | 427.9 |
| 2 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 151 min | | | | 151 min | 1.50 | 302 | 354.8 | 177.4 |
| 3 | Hunter ICZ-101-40 | Area for Dripline | 0.87 in/h | | | 52 min | | | | 52 min | 1.50 | 104 | 652.6 | 326.3 |
| 4 | Hunter ICZ-101-40 | Area for Dripline | 0.87 in/h | | | 52 min | | | | 52 min | 1.50 | 104 | 784.3 | 392.1 |
| 5 | Hunter ICZ-101-40 | Bubbler | 8.98 in/h | | | 11 min | | | | | 1.50 | 11 | 57.8 | 57.8 |
| 6 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 151 min | | | | 151 min | 1.50 | 302 | 93.7 | 46.9 |
| 7 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 151 min | | | | 151 min | 1.50 | 302 | 117.0 | 58.5 |
| 8 | Hunter ICZ-101-40 | Area for Dripline | 0.87 in/h | | | 52 min | | | | 52 min | 1.50 | 104 | 594.4 | 297.2 |
| 9 | Hunter ICV-G-FS | Bubbler | 7.66 in/h | | | 12 min | | | | | 1.50 | 12 | 99 | 99 |
| 10 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 151 min | | | | 151 min | 1.50 | 302 | 3,161 | 1,581 |
| 11 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 151 min | | | | 151 min | 1.50 | 302 | 1,832 | 916.1 |
| 12 | Hunter ICV-G-FS | Bubbler | 7.66 in/h | | | 12 min | | | | | 1.50 | 12 | 72 | 72 |
| 13 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 151 min | | | | 151 min | 1.50 | 302 | 991.8 | 495.9 |
| 14 | Hunter ICV-G-FS | Turf Spray | 1.05 in/h | | 29 min | | 29 min | | 29 min | | 1.50 | 86 | 1,523 | 507.7 |
| 15 | Hunter ICV-G-FS | Turf Spray | 1.88 in/h | | 16 min | | 16 min | | 16 min | | 1.50 | 48 | 823.7 | 274.6 |
| 16 | Hunter ICV-G-FS | Bubbler | 0.30 in/h | | | 302 min | | | | | 1.50 | 302 | 6,600 | 6,600 |
| 17 | Hunter ICV-G-FS | Turf Spray | 1.05 in/h | | 29 min | | 29 min | | 29 min | | 1.50 | 86 | 1,523 | 507.7 |
| 18 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 151 min | | | | 151 min | 1.50 | 302 | 6,600 | 3,300 |
| 19 | Hunter ICV-G-FS | Turf Rotor | 0.57 in/h | | 53 min | | 53 min | | 53 min | | 1.50 | 158 | 2,844 | 948 |
| 20 | Hunter ICV-G-FS | Turf Rotor | 0.23 in/h | | 131 min | | 131 min | | 131 min | | 1.50 | 392 | 7,840 | 2,613 |
| 21 | Hunter ICV-G-FS | Turf Spray | 1.02 in/h | | 30 min | | 30 min | | 30 min | | 1.50 | 89 | 1,655 | 551.8 |
| 22 | Hunter ICV-G-FS | Turf Rotor | 0.23 in/h | | 130 min | | 130 min | | 130 min | | 1.50 | 389 | 7,780 | 2,593 |
| 23 | Hunter ICV-G-FS | Turf Rotor | 0.56 in/h | | 54 min | | 54 min | | 54 min | | 1.50 | 162 | 2,916 | 972 |
| 24 | Hunter ICV-G-FS | Turf Rotor | 0.23 in/h | | 132 min | | 132 min | | 132 min | | 1.50 | 395 | 7,900 | 2,633 |
| 25 | Hunter ICV-G-FS | Turf Spray | 1.05 in/h | | 29 min | | 29 min | | 29 min | | 1.50 | 86 | 1,523 | 507.7 |
| 26 | Hunter ICV-G-FS | Turf Spray | 1.05 in/h | | 29 min | | 29 min | | 29 min | | 1.50 | 86 | 1,523 | 507.7 |
| 27 | Hunter ICV-G-FS | Turf Rotor | 0.57 in/h | | 53 min | | 53 min | | 53 min | | 1.50 | 157 | 2,512 | 837.3 |
| 28 | Hunter ICV-G-FS | Turf Spray | 0.97 in/h | | 31 min | | 31 min | | 31 min | | 1.50 | 93 | 1,557 | 518.9 |
| RC-1 | Hunter ICZ-101-40 | Area for Dripline | 0.30 in/h | | | 151 min | | | | 151 min | 1.50 | 302 | 384.6 | 192.3 |
| RC-2 | Hunter ICV-G-FS | Bubbler | 7.66 in/h | | | 12 min | | | | | 1.50 | 12 | 27 | 27 |
| | | TOTALS: | | | 746 | 1,765 | 746 | | 746 | 1,416 | | 5,408 | 65,199 | 29,041 |

WATERING SCHEDULE IS A GUIDE ONLY.
IRRIGATION RUN TIMES WILL BE SET BY THE CONTRACTOR WITH COORDINATION BETWEEN THE OWNER AND THE CONTROLLER SYSTEMS REPRESENTATIVE.

## CRITICAL ANALYSIS

Generated: 2015-03-30 15:42

P.O.C. NUMBER:01
Water Source Information:

FLOW AVAILABLE
Point of Connection Size: 1-1/4"
Flow Available: 35.00 gpm

PRESSURE AVAILABLE
Static Pressure at POC: 100.00 psi
Pressure Available: 100.00 psi

DESIGN ANALYSIS
Maximum Station Flow: 35.00 gpm
Flow Available at POC: 35.00 gpm
Residual Flow Available: 0.00 gpm

Critical Station: 18
Design Pressure: 30.00 psi
Elevation Loss: 0.00 psi
Friction Loss: 5.92 psi
Fittings Loss: 0.59 psi
Loss through Valve: 45.00 psi
Pressure Req. at Critical Station: 81.51 psi
Loss for Fittings: 0.35 psi
Loss for Main Line: 3.54 psi
Loss for POC to Valve Elevation: 0.00 psi
Loss for Backflow: 0.00 psi
Critical Station Pressure at POC: 85.40 psi
Pressure Available: 100.00 psi
Residual Pressure Available: 14.60 psi

DESIGN TEAM

JACOBY ARCHITECTS
425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

Landmark Design
LANDSCAPE ARCHITECTURE & PLANNING
Artspace Solar Gardens
850 South 400 West | Studio 104
Salt Lake City, Utah 84101
801.474.3300
www.ldi-ut.com

CONSULTANTS

Architectural: - Jacoby Architects, Inc. - 801.363.1434
Civil: - Meridian Engineering, Inc. - 801.569.1315
Structural: - TBSE Inc. - 801.298.8795
Mechanical: - WHW Engineering - 801.466.4021
Electrical: - ECE Consulting - 801.521.8007
Landscape: - Landmark Design - 801.474.3300
Food Service: - Jedrzlewski Designs - 801.582.9747

STAMP

STATE OF UTAH
MARK W. VLASIC
NO. 4884491
5/11/2015
LICENSED LANDSCAPE ARCHITECT

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SHEET DATA

Drawn By:

Checked By:

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

CONSTRUCTION DOCUMENTS

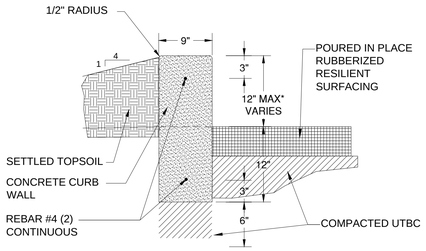
COURTYARD IRRIGATION PLAN

LI1-02

User: May 01, 2015 - 8:57am
P:\PROJECTS\LA_CURRENT\DFCM_USDB_2014\3 CD INFO\DFCM USDB SITE IRRIGATION.dwg

* HEIGHT VARIES. SLOPE OF TOP SURFACE NOT TO EXCEED 4:1 (H:V). SLOPE FROM ENDS OF WALL TO A MAXIMUM HEIGHT OF 12" THEN REMAIN CONSTANT TO THE SLOPE AT THE OTHER END OF WALL.

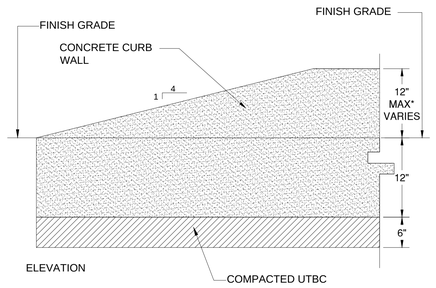
NOTE: SCORE JOINTS EVENLY SPACED, 10' MAX. EXPANSION JOINTS EVENLY SPACED, 40' MAX.




1 CONCRETE CURB WALL - 12"

P-USDB-42

* HEIGHT VARIES. SLOPE OF TOP SURFACE NOT TO EXCEED 4:1 (H:V). SLOPE FROM ENDS OF WALL TO A MAXIMUM HEIGHT OF 12" THEN REMAIN CONSTANT TO THE SLOPE AT THE OTHER END OF WALL.

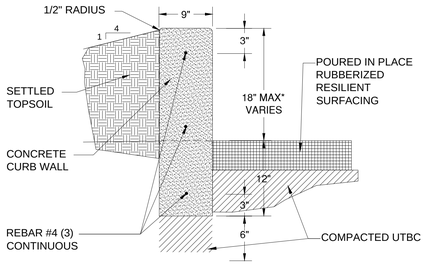



2 CONCRETE CURB WALL - 12" END ELEVATION

P-USDB-43

* HEIGHT VARIES. SLOPE OF TOP SURFACE NOT TO EXCEED 4:1 (H:V). SLOPE FROM ENDS OF WALL TO A MAXIMUM HEIGHT OF 18" THEN REMAIN CONSTANT TO THE SLOPE AT THE OTHER END OF WALL.

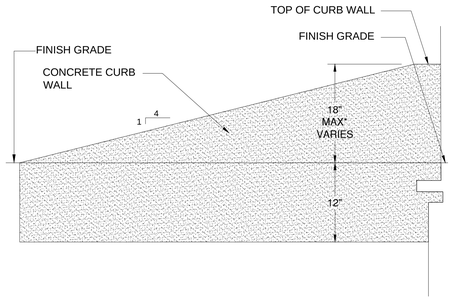
NOTE: SCORE JOINTS EVENLY SPACED, 10' MAX. EXPANSION JOINTS EVENLY SPACED, 40' MAX.




3 CONCRETE CURB WALL - 18"

P-USDB-44

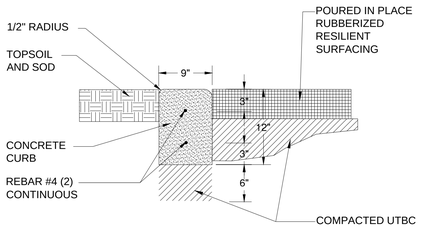
* HEIGHT VARIES. SLOPE OF TOP SURFACE NOT TO EXCEED 4:1 (H:V). SLOPE FROM ENDS OF WALL TO A MAXIMUM HEIGHT OF 12" THEN REMAIN CONSTANT TO THE SLOPE AT THE OTHER END OF WALL.




4 CONCRTETE CURB WALL - 18" END ELEVATION

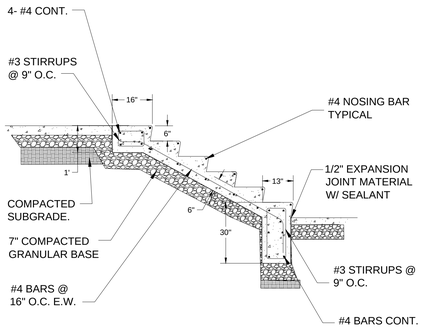
P-USDB-45

NOTE: SCORE JOINTS EVENLY SPACED, 10' MAX. EXPANSION JOINTS EVENLY SPACED, 40' MAX.



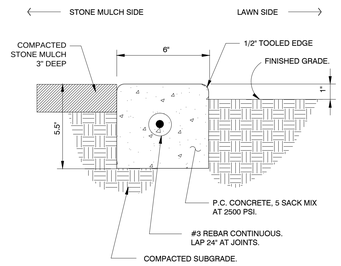

5 CONCRETE CURB

P-USDB-46




6 CONCRETE STEPS

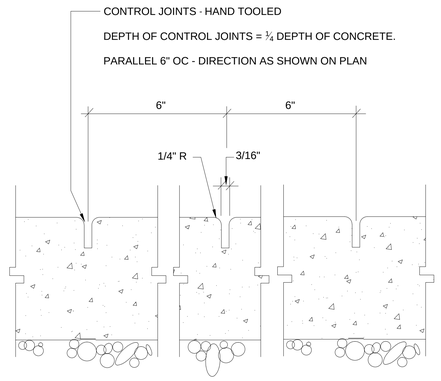
P-USDB-47




7 6" CONCRETE CURB

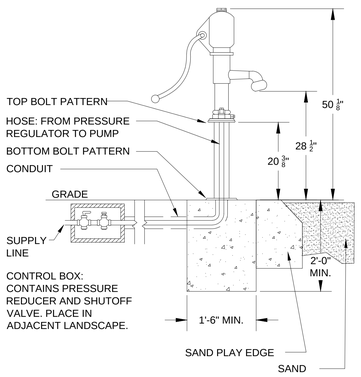
3" = 1'-0"

P-USDB-06



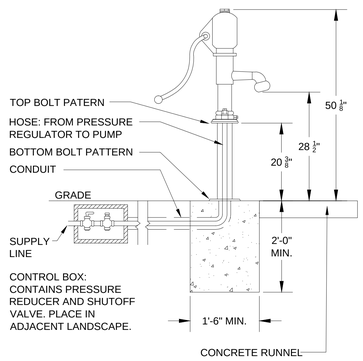

8 CONCRETE - TEXTURE - TOOLED

P-USDB-53



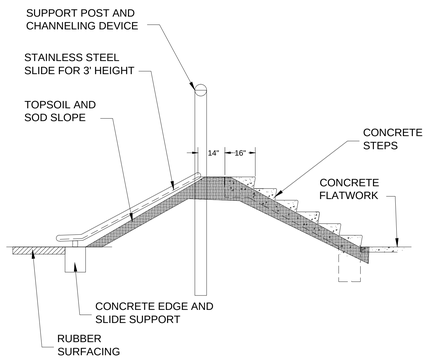

9 WATER HAND PUMP - SAND EDGE

P-USDB-50



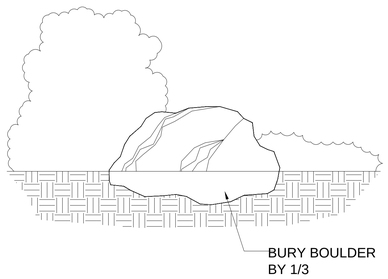

10 WATER HAND PUMP - RUNNEL

P-USDB-49




11 EMBANKMENT SLIDE

P-USDB-48




12 BOULDER DETAIL

P-USDB-52

User: May 01, 2015 – 8:58am
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DESIGN TEAM


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

Landmark Design
LANDSCAPE ARCHITECTURE & PLANNING
Artspace Solar Gardens
850 South 400 West | Studio 104
Salt Lake City, Utah 84101
801.474.3300
www.ldi-ut.com


CONSULTANTS

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| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
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STAMP

STATE OF UTAH
MARK W. VLASIC
NO. 4884491
5/11/2015
LICENSED LANDSCAPE ARCHITECT

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SHEET DATA

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Checked By:

PROJECT

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building | Salt Lake City, Utah 84114 | dfcm.utah.gov

DFCM # 14190230
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ADDENDA

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

CONSTRUCTION DOCUMENTS

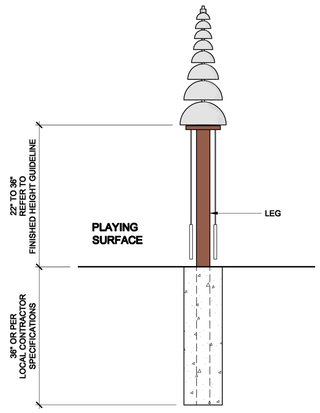
SITE DETAILS

LD5-01

INSTALLATION NOTES :

1. INSPECT INSTRUMENT FOR DAMAGE DURING SHIPMENT.
2. EXCAVATE ONE (1) 10" DIAMETER HOLE 36" DEEP AT INSTALLATION LOCATION. *CONTRACTOR CAN MODIFY LEG (RECOMMEND CIRCULAR SAW) TO FIT SITE. LEG LENGTH = [DESIRED FROST DEPTH (36" RECOMMENDED)] + FINISHED HEIGHT GUIDELINE FOR AGE].
3. ASSEMBLE THE INSTRUMENT. SCREW THE MALLET MOUNT TO THE POST WITH THE (4) PROVIDED SCREWS. MAKE SURE THE $\frac{3}{8}$" HOLES LINE UP FOR THE BELLS' ROD. PUSH THE LAG BOLT THROUGH THE HOLE IN THE LEG AND THROUGH THE HOLE IN THE BELLS' ROD. SECURE WITH THE TAMPER-RESISTANT BARREL NUT.
4. CAREFULLY PLACE THE INSTRUMENT INTO THE EXCAVATED HOLE. VERIFY THE CORRECT PLACEMENT OF THE INSTRUMENT, LEVEL AND PLUMB OF THE INSTRUMENT, AND HEIGHT ABOVE GRADE.

   FINISHED HEIGHT GUIDELINE :
   (APPROXIMATE HEIGHT TO CENTER OF NOTE BAR)
   AGES 3-5 : 22"
   AGES 5-7 : 27"
   AGES 7-11 : 32"
   ADULT : 36"
5. POUR CONCRETE AROUND THE LEG. CHECK FOR PLUMB AND BRACE THE INSTRUMENT ASSEMBLY TO HOLD IT RIGID DURING THE CURING PROCESS. LEAVE TO SET ACCORDING TO THE CONCRETE MANUFACTURER'S GUIDELINES.

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| REVISION | DESCRIPTION | DATE | CH'K | APP'D |
|---|---|---|---|---|
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171 SUTTLE STREET, SUITE B
DURANGO CO 81303
TEL : (970) 375-7825
FAX : (970) 247-0856
EMAIL : INFO@FREENOTESHARMONYPARK.COM
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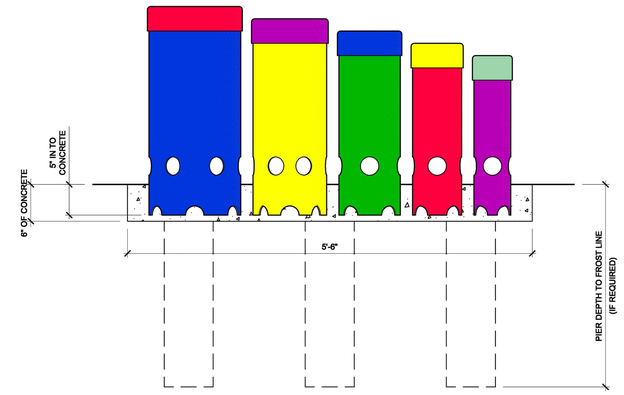
INSTALLATION GUIDE
PAGODA BELLS

31 JANUARY 2014 PAGE 1 OF 1

1 PAGODA BELLS INSTALLATION INFORMATION

INSTALLATION NOTES :

1. LEAVE THE WHITE PACKING FOAM AROUND DRUMS TO PROTECT THE PAINT DURING INSTALLATION.
2. ARRANGE DRUMS IN DESIRED LOCATION AND PATTERN (ARC, WAVE ARRANGEMENT, OR STRAIGHT-LINE). STAKE OUT TRENCH LOCATION.
   TRENCH DIMENSIONS : 66" LONG x 20" WIDE x 6" DEEP MIN.
   NOTE: CONTRACTOR SHOULD PROVIDE A SLAB THAT WILL PERFORM UNDER LOCAL SOIL & WEATHER CONDITIONS. STEEL REINFORCING AND FROST-DEPTH PIERS MAY NEED TO BE ADDED TO ENSURE STABILITY OF THE INSTALLATION.
3. EXCAVATE TRENCH (AND ANY ADDED PIERS) TO DEPTH REQUIRED. CHECK TRENCH OR FORMWORK FOR LEVEL. POUR CONCRETE AND FILL TRENCH COMPLETELY PER CODE REQUIREMENTS.
   NOTE: CONCRETE IS POURED FIRST, DRUMS ARE IMMEDIATELY PUSHED DOWN INTO THE WET CONCRETE.
4. INSTALL DRUMS INTO CONCRETE. PLACE LARGEST DIAMETER DRUM ON LEFT (AS SEEN FROM PRIMARY PLAYING POSITION). CONTINUE WITH THE NEXT SIZED DRUM. WARNING: DO NOT INSTALL THE DRUMS BETWEEN 3" AND 9" APART. THE BOTTOM EDGE OF THE DRUM IS SCALLOPED TO ASSIST IN IT'S BEING INSERTED INTO WET CONCRETE. TWIST DRUM INTO CONCRETE TO 5" DEPTH. CHECK FOR PLUMB AND BRACE THE DRUMS TO KEEP THEM RIGID AND IN PLACE DURING THE CURING PROCESS. LEAVE TO SET ACCORDING TO THE CONCRETE MANUFACTURER'S GUIDELINES. REMOVE THE WHITE PACKING FOAM AFTER THE CONCRETE HAS CURED.




**WARNING:** DRUMS MUST BE INSTALLED 3" OR CLOSER TO EACH OTHER, OR 9" APART OR MORE. BETWEEN 3" AND 9" APART THERE IS A CHANCE FOR A CHILD'S HEAD TO GET STUCK. (REFERENCE: US CONSUMER PRODUCT SAFETY COMMISSION, PUBLIC PLAYGROUND SAFETY HANDBOOK)

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INSTALLATION GUIDE
TUNED DRUMS

31 JANUARY 2014 PAGE 1 OF 1

2 TUNED DRUMS INSTALLATION INFORMATION

INSTALLATION PROCEDURES:

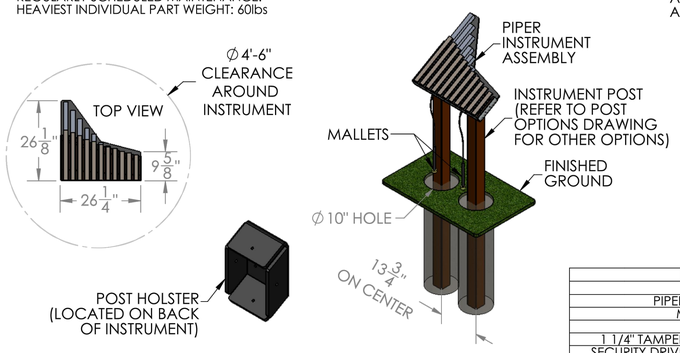
1. INSPECT INSTRUMENT FOR DAMAGE DURING SHIPMENT.
2. LAY INSTRUMENT BAR SIDE DOWN ON THE GROUND. USE THE WHITE PACKING FOAM TO PREVENT DAMAGING THE INSTRUMENT.
3. EXCAVATE (2) 10" DIAMETER HOLES, 36" DEEP, AND 13-3/4" ON CENTER AT INSTALLATION LOCATION. CONTRACTOR CAN MODIFY POSTS TO DESIRED HEIGHT. POST LENGTH = DESIRED FROST DEPTH (36" RECOMMENDED) + FINISHED HEIGHT (REFER TO HEIGHT GUIDELINE)
4. LOWER INSTRUMENT POSTS INTO THE HOLES. W/ (2) PEOPLE, SITUATE INSTRUMENT W/ HOLTSTERS ONTO POSTS. PREDRILL 1/8" PILOT HOLES INTO POSTS, THEN ANCHOR POSTS TO POST HOLSTERS W/ (8) 1 1/4" TAMPER-RESISTANT SCREWS USING THE SECURITY DRIVER PROVIDED.
5. VERIFY THE CORRECT PLACEMENT, LEVELNESS, PLUMBNESS, AND FINISHED HEIGHT OF THE INSTRUMENT. THEN POUR CONCRETE AROUND THE POSTS. IF NECESSARY BRACE THE INSTRUMENT TO HOLD IT RIGID DURING THE CURING PROCESS. LEAVE TO SET ACCORDING TO THE CONCRETE MANUFACTURER'S GUIDELINES. APPROXIMATELY (4) 80lb BAGS WILL BE NEEDED.

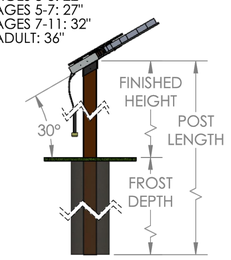
NOTES:

- SPARE PARTS ARE AVAILABLE ON REQUEST FROM FREENOTES HARMONY PARK OR YOUR LOCAL DISTRIBUTOR.
- REFER TO FREENOTES MAINTENANCE INSTRUCTIONS FOR ALL REQUIRED INSPECTIONS AND REGULARLY SCHEDULED MAINTENANCE.
- HEAVIEST INDIVIDUAL PART WEIGHT: 60lbs

FINISHED HEIGHT GUIDELINE:

AGES 3-5: 22"
AGES 5-7: 27"
AGES 7-11: 32"
ADULT: 36"




| DELIVERY PARTS LIST | |
|---|---|
| ITEM | QTY. |
| PIPER ASSEMBLY | 1 |
| MALLETS | 2 |
| POSTS | 2 |
| 1 1/4" TAMPER-RESISTANT SCREWS | 10 |
| SECURITY DRIVER FOR 1 1/4" SCREWS | 1 |

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PRODUCT SHEET/
INSTALLATION GUIDE
PIPER

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SHEET 1 OF 1

3 PIPER INSTALLATION INFORMATION

INSTALLATION PROCEDURES:

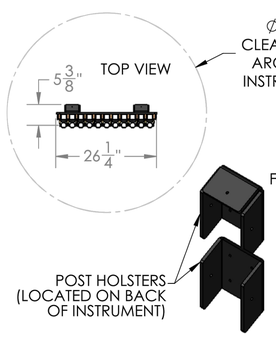
1. INSPECT INSTRUMENT FOR DAMAGE DURING SHIPMENT.
2. LAY INSTRUMENT CHIME SIDE DOWN ON THE GROUND. USE THE WHITE PACKING FOAM TO PREVENT DAMAGING THE INSTRUMENT.
3. EXCAVATE (2) 10" DIAMETER HOLES, 36" DEEP, AND 18" ON CENTER AT INSTALLATION LOCATION. CONTRACTOR CAN MODIFY POSTS TO DESIRED HEIGHT. POST LENGTH = DESIRED FROST DEPTH (36" RECOMMENDED) + FINISHED HEIGHT (REFER TO HEIGHT GUIDELINE)
4. LOWER INSTRUMENT POSTS INTO THE HOLES. W/ (2) PEOPLE, SITUATE INSTRUMENT W/ HOLTSTERS ONTO POSTS. PREDRILL 1/8" PILOT HOLES INTO POSTS, THEN ANCHOR POSTS TO POST HOLSTERS W/ (10) 1 1/4" TAMPER-RESISTANT SCREWS USING THE SECURITY DRIVER PROVIDED.
5. VERIFY THE CORRECT PLACEMENT, LEVELNESS, PLUMBNESS, AND FINISHED HEIGHT OF THE INSTRUMENT. THEN POUR CONCRETE AROUND THE POSTS. IF NECESSARY BRACE THE INSTRUMENT TO HOLD IT RIGID DURING THE CURING PROCESS. LEAVE TO SET ACCORDING TO THE CONCRETE MANUFACTURER'S GUIDELINES. APPROXIMATELY (4) 80lb BAGS WILL BE NEEDED.

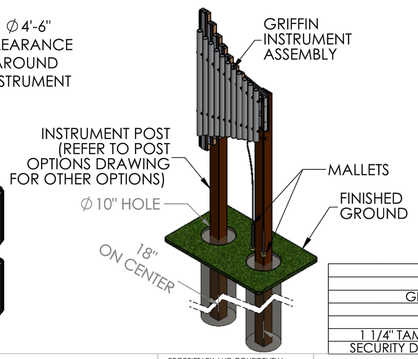
NOTES:

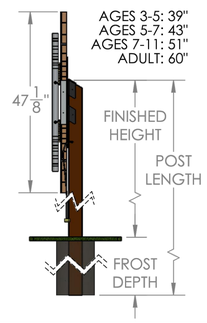
- SPARE PARTS ARE AVAILABLE ON REQUEST FROM FREENOTES HARMONY PARK OR YOUR LOCAL DISTRIBUTOR.
- REFER TO FREENOTES MAINTENANCE INSTRUCTIONS FOR ALL REQUIRED INSPECTIONS AND REGULARLY SCHEDULED MAINTENANCE.
- HEAVIEST INDIVIDUAL PART WEIGHT: 77lbs

FINISHED HEIGHT GUIDELINE:

AGES 3-5: 39"
AGES 5-7: 43"
AGES 7-11: 51"
ADULT: 60"




| DELIVERY PARTS LIST | |
|---|---|
| ITEM | QTY. |
| GRIFFIN ASSEMBLY | 1 |
| MALLETS | 2 |
| POSTS | 2 |
| 1 1/4" TAMPER-RESISTANT SCREWS | 12 |
| SECURITY DRIVER FOR 1 1/4" SCREWS | 1 |

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PRODUCT SHEET/
INSTALLATION GUIDE
GRIFFIN

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SHEET 1 OF 1

4 GRIFFIN CHIMES INSTALLATION INFORMATION

DESIGN TEAM

JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

Landmark Design
LANDSCAPE ARCHITECTURE & PLANNING
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PROJECT

USDB
SALT LAKE CENTER

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 801-538-3018

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ADDENDA

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| 2015 01 30 | 50% Progress Set |
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CONSTRUCTION DOCUMENTS

SITE
DETAILS

LD5-02

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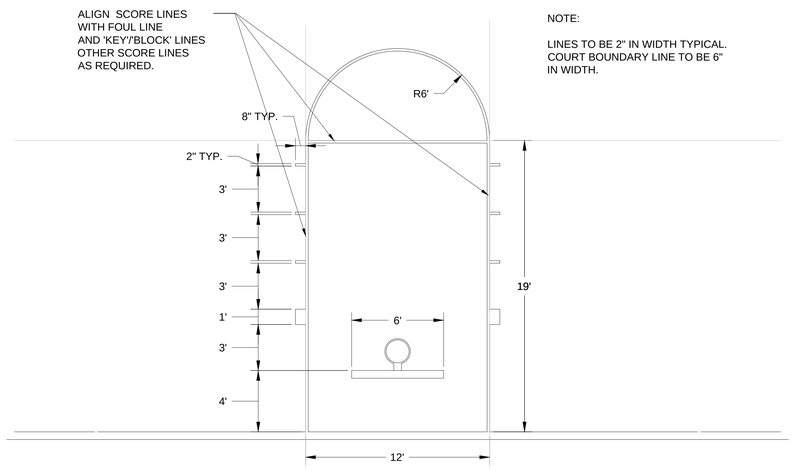
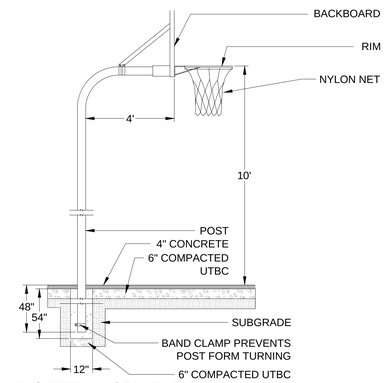



## 1 BASKETBALL COURT DIMENSIONS

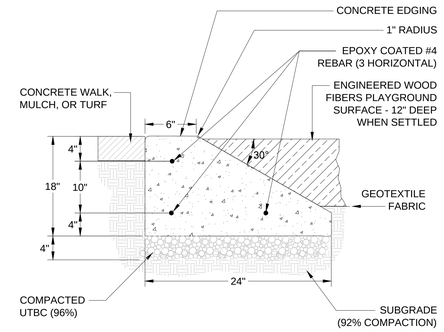
P-USDB-54

1/4" = 1'-0"



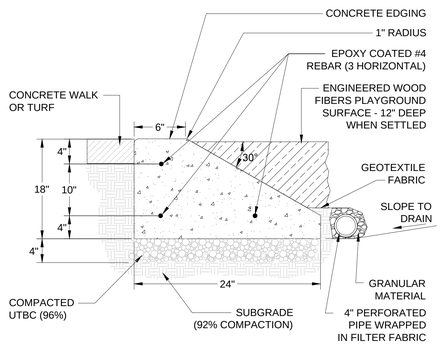

## 2 BASKETBALL STANDARD

P-USDB-55



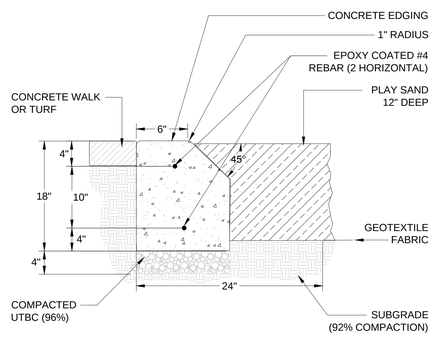

## 3 CONCRETE PLAYGROUND EDGING

P-USDB-39



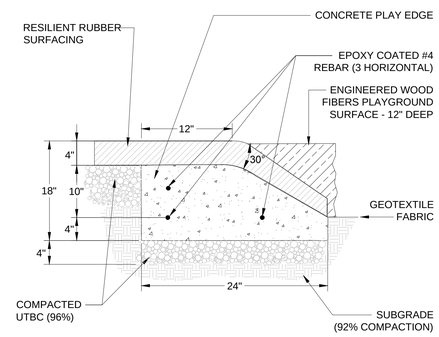

## 4 DRAIN AT PLAY EDGE

P-USDB-56



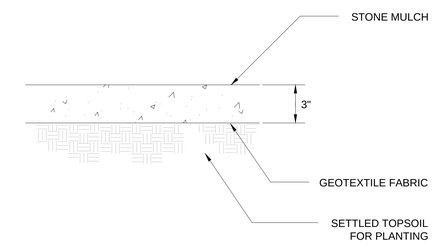

## 5 SAND PLAY EDGE

P-USDB-57



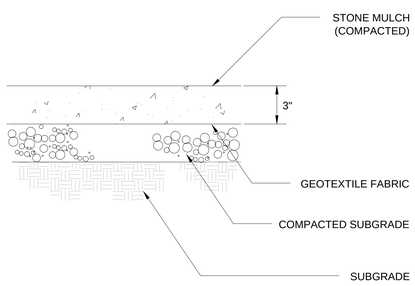

## 6 PLAY SURFACING TRANSITION

P-USDB-58



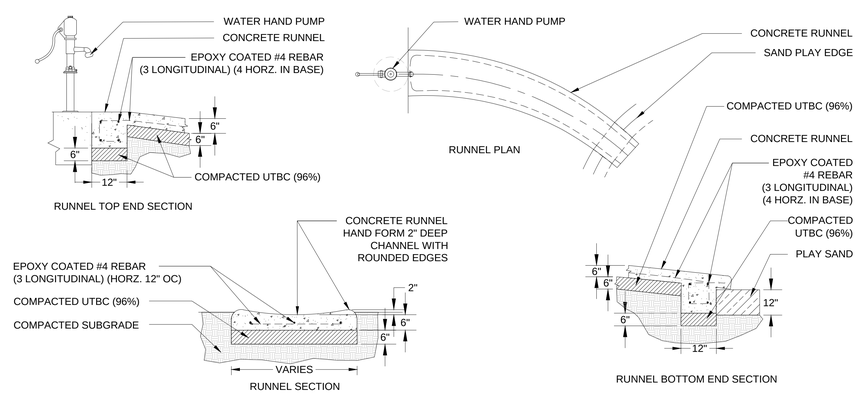

## 7 STONE MULCH

P-USDB-60



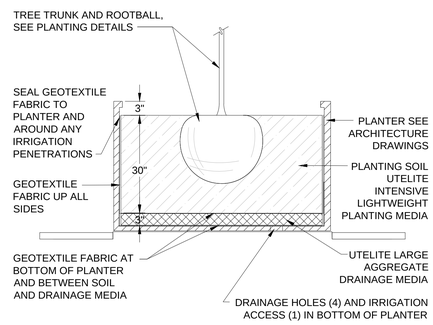

## 8 COMPACTED STONE MULCH

P-USDB-59




## 9 CONCRETE RUNNEL DETAILS

03300-09




## 10 ROOF PLANTER

32 9373.13-01

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Utah 84111
801 363 1434
Project Number: 2014-07

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STATE OF UTAH
MARK W. VLASIC
NO. 4884491
5/11/2015
LICENSED LANDSCAPE ARCHITECT

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Checked By:

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State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

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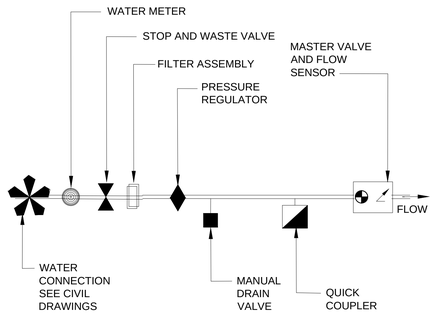
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

CONSTRUCTION DOCUMENTS

SITE DETAILS

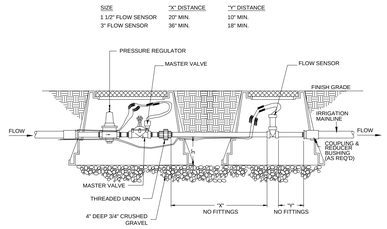
LD5-03




DESIGN PSI AT POINT OF CONNECTION IS 80 PSI

## 1 POINT OF CONNECTION SCHEMATIC

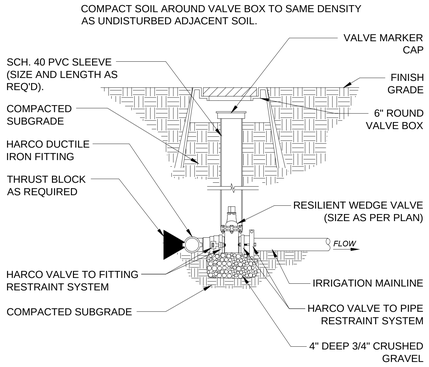
P-USDB-10




SEE FLOW SENSOR AND PULSE DECODER WIRING DETAIL

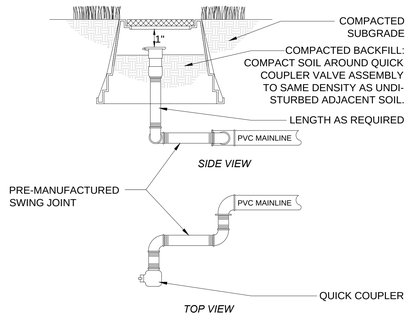
## 2 MASTER VALVE / FLOW SENSOR W/ PRV

P-USDB-14




## 3 ISOLATION VALVE

P-USDB-13




## 4 QUICK COUPLER

P-USDB-16

SLEEVE SIZE CHART

| PIPE SIZE | MIN. SLEEVE SIZE |
|---|---|
| 3/4" | 1 1/2" |
| 1" | 2" |
| 1 1/4" | 2 1/2" |
| 1 1/2" | 3" |
| 2" | 4" |
| 2 1/2" | 6" |
| 3" | 6" |
| 4" | 8" |
| 6" | 12" |

*WHEN MULTIPLE PIPES OCCUR IN ONE TRENCH, ADD REQUIRED SLEEVE SIZES TOGETHER FOR 1 SLEEVE SIZE.

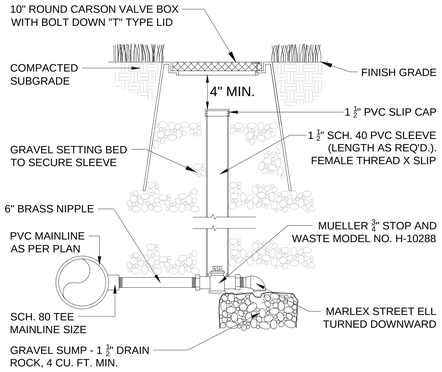
*WIRES SHALL BE IN SEPARATE CONDUIT AS PER CHART BELOW

WIRE CONDUIT SIZES

| NUMBER OF WIRES | MIN. CONDUIT SIZE |
|---|---|
| 1-7 | 1" |
| 8-11 | 1 1/2" |
| 12-22 | 2" |
| 23-31 | 2 1/2" |
| 32-36 | 3" |

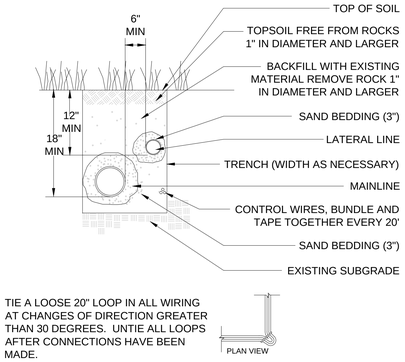
## 8 SLEEVING REQUIREMENTS

P-USDB-21




## 5 MANUAL DRAIN VALVE

P-USDB-17




TIE A LOOSE 20" LOOP IN ALL WIRING AT CHANGES OF DIRECTION GREATER THAN 30 DEGREES. UNTIE ALL LOOPS AFTER CONNECTIONS HAVE BEEN MADE.

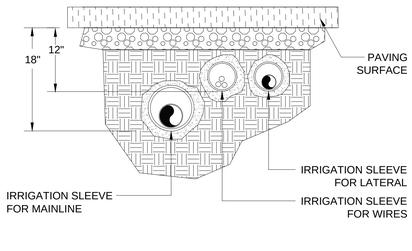
## 6 TYPICAL TRENCHING

P-USDB-19

NOTE:

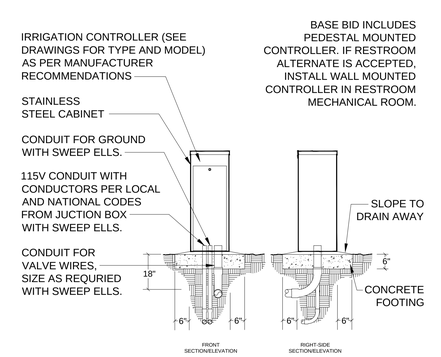
SURROUND ALL SLEEVING IN 2" MINIMUM SAND ALL AROUND.

EXTEND ALL SLEEVING A MINIMUM OF 6" BEYOND EDGE OF PAVING.



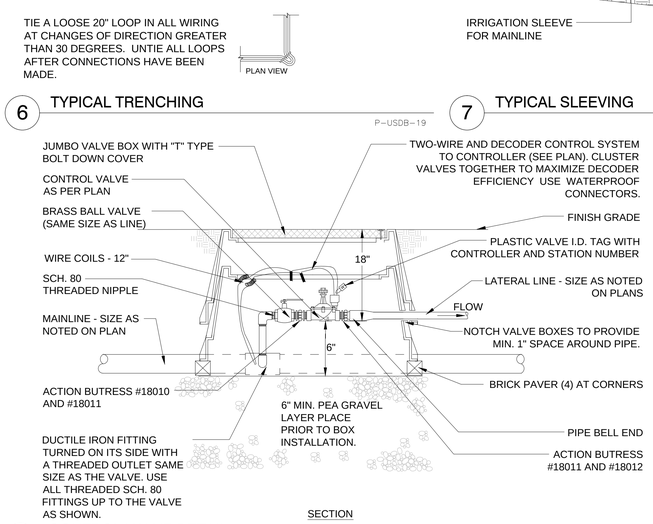

## 7 TYPICAL SLEEVING

P-USDB-20



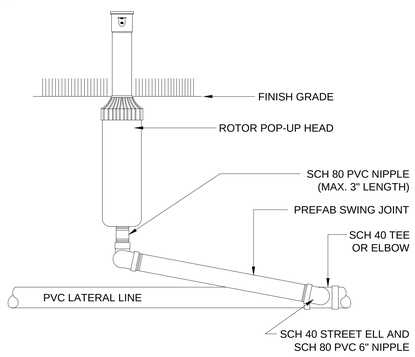

## 9 PEDESTAL MOUNT CONTROLLER

P-USDB-41



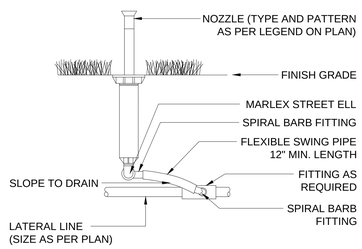

## 10 CONTROL VALVE DETAIL

P-USDB-37




## 11 ROTOR POP-UP

P-USDB-38




## 12 POP-UP SPRAY HEAD

P-USDB-11

User:- May 01, 2015 - 8:59am
P:\PROJECTS\LA_CURRENT\DFCM_USDB_2014\3 CD INFO\DFCM USDB DETAILS.dwg

DESIGN TEAM

JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

**Landmark Design**
LANDSCAPE ARCHITECTURE & PLANNING
Artspace Solar Gardens
850 South 400 West | Studio 104
Salt Lake City, Utah 84101
801.474.3300
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CONSULTANTS

| | |
|---|---|
| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrziewski Designs - 801.582.9747 |

STAMP

STATE OF UTAH
MARK W. VLASIC
NO. 4884491
5/11/2015
LICENSED LANDSCAPE ARCHITECT

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SHEET DATA

Drawn By:

Checked By:

PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

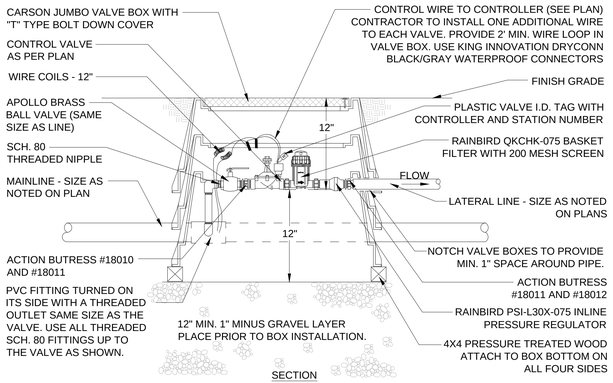
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

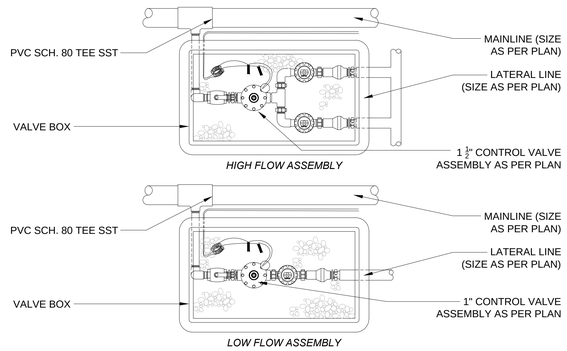
CONSTRUCTION DOCUMENTS

IRRIGATION DETAILS

LD5-04



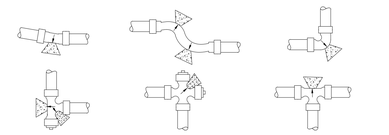

SECTION




PLAN

## 1 DRIP VALVE/FILTER/PRESSURE REG. DETAIL

P-USDB-26



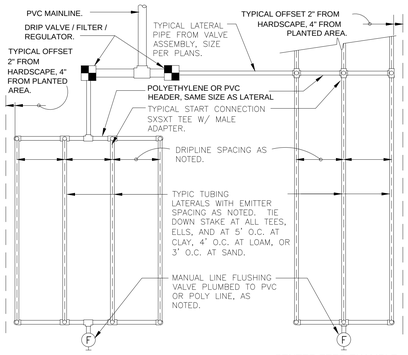
THE AREA OF BEARING PER THRUST BLOCK FOR THE ABOVE SITUATIONS SHALL EQUAL THE FULL AREA SPECIFIED FOR THE LARGEST PIPE.

THE AREA OF BEARING PER THRUST BLOCK FOR THE ABOVE SITUATIONS SHALL EQUAL ½ THE AREA SPECIFIED FOR THE LARGEST PIPE.

NOTE:
1.5 SQ. FT. MINIMUM BEARING AREA FOR 4" MAINLINE.
1 CU. FT. CONCRETE MINIMUM.

## 2 TYPICAL THRUST BLOCK

P-USDB-22




END FEED EXAMPLE

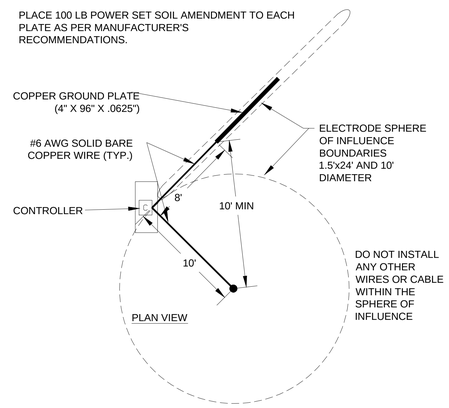
CENTER FEED EXAMPLE

MAXIMUM LENGTH OF SINGLE LATERAL (FEET)

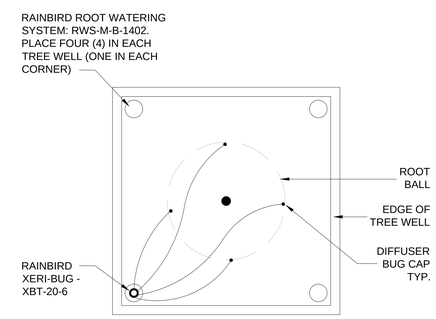
| DRIPPER SPACING | | | 12" | | | | 18" | | | | 24" | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DRIPPER FLOW RATE (GPH) | | | 0.26 | 0.4 | 0.6 | 0.9 | 0.26 | 0.4 | 0.6 | 0.9 | 0.6 | 0.9 |
| INLET PRESSURE (PSI) | | 15 | 127 | 109 | 86 | 65 | 177 | 151 | 120 | 91 | 152 | 116 |
| | | 25 | 427 | 325 | 256 | 194 | 604 | 459 | 361 | 274 | 458 | 348 |
| | | 35 | 539 | 409 | 322 | 244 | 763 | 579 | 456 | 346 | 580 | 440 |
| | | 45 | 618 | 469 | 369 | 280 | 877 | 664 | 523 | 397 | 666 | 506 |

FLOW PER 100 FEET

| DRIPPER SPACING | 0.26 GPH DRIPPER | | 0.4 GPH DRIPPER | | 0.6 GPH DRIPPER | | 0.9 GPH DRIPPER | |
|---|---|---|---|---|---|---|---|---|
| | GPH | GPM | GPH | GPM | GPH | GPM | GPH | GPM |
| 12" | 26.40 | 0.44 | 40.00 | 0.67 | 61.00 | 1.02 | 92.00 | 1.53 |
| 18" | 17.58 | 0.29 | 26.67 | 0.44 | 41.00 | 0.68 | 61.00 | 1.02 |
| 24" | N/A | N/A | N/A | N/A | 31.00 | 0.51 | 46.00 | 0.77 |



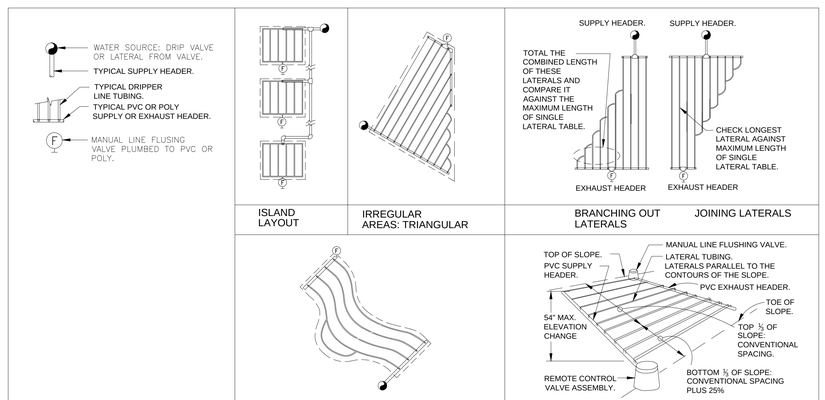

PLAN VIEW




NOTE: FOR ESTABLISHMENT PERIOD, REMOVE BUBBLER OF ONE ROOT WATERING SYSTEM AND REPLACE WITH RAINBIRD XERI-BUG - XBT-20-6. INSTALL FOUR (4) LINES OF ¼" TUBING TO ROOTBALL. DELIVER REMOVED BUBBLER TO OWNER.

## 3 ROOF TOP TREE WELL WATERING SYSTEM - PLAN

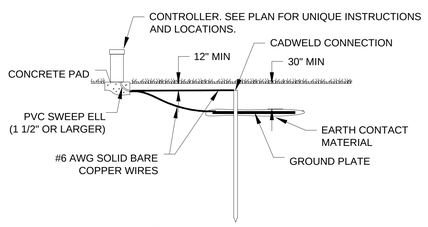
P-USDB-61




## 4 TYPICAL DRIPLINE REQUIREMENTS

3" = 1'-0"

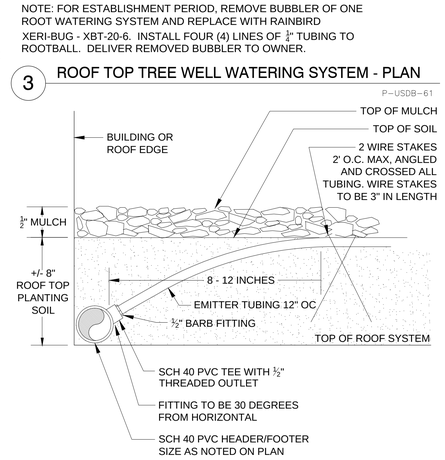
P-USDB-25




ELEVATION

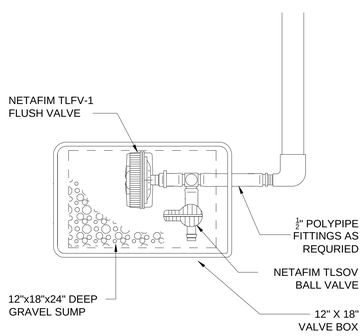
## 5 GROUNDING PLATE AND ROD

P-USDB-28



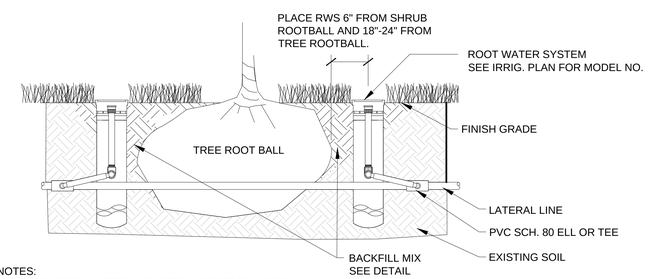

## 6 ROOF TOP PIPE AND DRIPLINE INSTALLATION

P-USDB-62




## 7 DRIP LINE FLUSH VALVE

P-USDB-30




NOTES:
1. TREE ROOT WATERING SYSTEM - THREE RWS PER TREE TYP. PLACE TWO ROOT WATERING SYSTEMS ON UPHILL SIDE OF TREE ROOTBALL IF SLOPE EXISTS.

## 8 TREE ROOT WATERING SYSTEM

P-USDB-29

DESIGN TEAM


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
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801 363 1434
Project Number: 2014-07

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MARK W. MAKSIK
NO. 4884491
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CONSTRUCTION DOCUMENTS

IRRIGATION DETAILS

LD5-05

User: May 01, 2015 – 9:00am
P:\PROJECTS\LA_CURRENT\DFCM_USDB_2014\3 03 INFO\DFCM USDB DETAILS.dwg

## BASIS OF DESIGN

1. GOVERNING BUILDING CODE ... 2012 IBC

2. OCCUPANCY CATEGORY ... III

3. LOAD COMBINATIONS:
   ASD - GRAVITY AND LATERAL ... 1605.3.1
   LRFD - LATERAL ... 1605.2

4. GRAVITY DESIGN:
   DEAD LOAD
   ROOF ... 25 PSF
   FLOOR ... 70 PSF
   PARTITIONS ... 20 PSF
   PATIO ... 80 PSF
   LIVE LOAD (UNIFORMLY DISTRIBUTED LOADS)
   OFFICES ... 50 PSF
   FIRST FLOOR CORRIDORS ... 100 PSF
   CORRIDORS ABOVE FIRST FLOOR ... 80 PSF
   MECHANICAL ... 100 PSF
   PATIO ... 100 PSF
   LIVE LOAD (CONCENTRATED LOADS)
   ALL AREAS ... 2000 LBS
   ROOF LIVE LOAD
   (NOT CONCURRENT WITH ROOF SNOW LOAD) ... 20 PSF
   ROOF SNOW LOAD
   GROUND SNOW LOAD ... 48 PSF
   FLAT ROOF SNOW LOAD ... 33 PSF
   FLAT ROOF SNOW LOAD (UNHEATED) ... 40 PSF
   Is ... 1.10
   Ce ... 1.00
   Ct ... 1.00
   DRIFTING PER ASCE 7

5. LATERAL DESIGN:
   WIND DESIGN PER ASCE 7-10
   ULTIMATE DESIGN WIND SPEED ... 120 MPH
   EXPOSURE ... C
   INTERNAL PRESSURE COEFFICIENT ... 0.18
   TOPOGRAPHIC FACTOR ... 1.00

COMPONENET AND CLADDING ULTIMATE DESIGN WIND PRESSURE (PSF)

| LOCATION | | TRIBUTARY AREA (ft²) | | | |
|---|---|---|---|---|---|
| | | <10 | 50 | 200 | >500 |
| WALLS | UP TO 6ft FROM CORNER | 46.9 | 39.4 | 33.5 | 29.3 |
| | OTHER AREAS | 38.1 | 34.5 | 31.4 | 29.3 |
| ROOF | UP TO 6ft FROM CORNER | 64.5 | 48.6 | 41.7 | 41.7 |
| | UP TO 6ft FROM EDGE | 64.5 | 48.6 | 41.7 | 41.7 |
| | OTHER AREAS | 38.5 | 36.2 | 35.2 | 35.2 |
| EAVES | UP TO 4.5ft FROM CORNER | 97.1 | 51.6 | 31.9 | 31.9 |
| | EDGES | 64.3 | 59.0 | 51.0 | 41.7 |
| PARAPET | UP TO 6ft FROM CORNER | 134 | 91.2 | ... | ... |
| | OTHER AREAS | 101 | 81.3 | 71.2 | 69.1 |

   SEISMIC DESIGN
   SEISMIC DESIGN PROCEDURE ... EQUIVALENT LATERAL FORCE
   Ss CHART VALUE ... 1.358 g
   S1 CHART VALUE ... 0.514 g
   SITE COEFFICIENT FA ... 1.00
   SITE COEFFICIENT FV ... 1.50
   SDS ... 0.906 g
   SD1 ... 0.514 g
   SITE CLASS ... D
   SEISMIC DESIGN CATEGORY ... D
   IMPORTANCE FACTOR Ie ... 1.25
   REDUNDANCY FACTOR ... 1.0
   PORTION OF SNOW LOAD INCLUDED ... 20%
   BUILDING PERIOD T ... 1.17 SEC.
   LATERAL FORCE RESISTING SYSTEM ... SPECIAL CONCENTRIC BRACE FRAME, CANTILEVER COLUMN, LIGHT-FRAME STEEL SHEAR WALL
   R ... 6.0, 1.25, 6.5
   OMEGA ... 2.0, 1.25, 3
   Cd ... 5.0, 1.25, 4
   EARTHQUAKE FORCE 0.7E ... 0.132 g, 0.634 g, 0.122 g

## GENERAL

1. THE GENERAL CONTRACTOR SHALL:
   A. BECOME FAMILIAR WITH ALL PORTIONS OF THE CONTRACT DOCUMENTS AND INSURE THAT ALL SUBCONTRACTORS ARE FAMILIAR WITH THOSE PORTIONS PERTAINING TO THEIR AREA OF WORK. NO DEVIATIONS WILL BE ALLOWED UNLESS AGREED UPON BY ALL PARTIES IN WRITING PRIOR TO CONSTRUCTION FABRICATION.
   B. VERIFY ALL DIMENSIONS AND ELEVATIONS. COORDINATE ALL DOORS, WINDOWS, NON-BEARING INTERIOR AND EXTERIOR WALLS, ELEVATIONS, SLOPES, STAIRS, CURBS, DRAINS, RECESSES, DEPRESSIONS, RAILINGS, WATERPROOFING, FINISHES, CHAMFERS, KERFS, ETC.
   C. FIELD VERIFY ALL SITE CONDITIONS AND IMMEDIATELY NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER REGARDING ACTUAL CONDITIONS AT THE SITE WHICH ARE NOT PER THE DRAWINGS.
   D. COORDINATE ALL WORK BETWEEN THE VARIOUS TRADES AND SUBCONTRACTORS. REPORT ANY MODIFICATIONS TO THE STRUCTURAL PORTION OF THE BUILDING BY OTHER TRADES TO THE ARCHITECT AND STRUCTURAL ENGINEER.
   E. BE RESPONSIBLE FOR SAFETY AND PROTECTION IN AND AROUND THE JOB SITE AND/OR ADJACENT PROPERTIES.
   F. REPORT PROGRESS OF WORK TO ARCHITECT AND STRUCTURAL ENGINEER.
   G. COORDINATE AND VERIFY LOCATIONS AND WEIGHTS OF MECHANICAL UNITS AND/OR OTHER EQUIPMENT OR DEVICES PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY SUPPORTING STRUCTURE. SUCH LOADS SHALL BE REPORTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW. ADDITIONAL FRAMING MAY BE REQUIRED FOR THE PROPER SUPPORT OF SUCH UNITS AND/OR EQUIPMENT. LATERAL SUPPORT FOR THE EQUIPMENT SHALL BE PROVIDED BY EQUIPMENT INSTALLER.
   H. COORDINATE AND VERIFY ROOF, FLOOR, AND WALL OPENINGS REQUIRED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND/OR OTHER DRAWINGS PRIOR TO CONSTRUCTION. REPORT OPENINGS REQUIRED WHICH ARE NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW.
   I. COORDINATE ANY CONSTRUCTION SITUATION NOT COVERED BY THESE PLANS, GENERAL NOTES, OR SPECIFICATIONS WITH THE ARCHITECT AND STRUCTURAL ENGINEER.

2. CONTRACT DOCUMENTS:
   A. REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE DRAWINGS.
   B. DETAILS, SECTIONS AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO ALL SIMILAR SITUATIONS ELSEWHERE, UNLESS NOTED OR SHOWN OTHERWISE.
   C. THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
   D. INFORMATION ON DRAWINGS INDICATING EXISTING CONDITIONS IS BASED ON BEST PRESENT KNOWLEDGE, BUT MAY NOT BE ENTIRELY ACCURATE AND MUST BE FIELD VERIFIED.

3. BUILDING CODE COMPLIANCE:
   A. INSPECTION, TESTING, CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND STANDARDS. ASTM, IBC, AND OTHER DESIGNATIONS SHALL BE AS AMENDED TO LATEST DATE UNLESS NOTED OTHERWISE.

4. CONSTRUCTION SEQUENCE, SHORING, AND BRACING REQUIREMENTS:
   A. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE METHOD, MEANS, AND SEQUENCE OF ALL STRUCTURAL ERECTION EXCEPT WHEN SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING TO PROVIDE ADEQUATE VERTICAL AND LATERAL SUPPORT DURING ERECTION. THIS SHORING AND BRACING SHALL REMAIN IN PLACE UNTIL ALL PERMANENT MEMBERS ARE PLACED AND ALL FINAL CONNECTIONS ARE COMPLETED, INCLUDING ALL ROOF AND FLOOR ATTACHMENTS.
   B. SHORING AND SUPPORTING FORM WORK FOR SUSPENDED CONCRETE OR MASONRY MATERIAL SHALL REMAIN IN PLACE AND SHALL NOT BE REMOVED UNTIL THE STRUCTURAL MEMBERS HAVE ACQUIRED SUFFICIENT STRENGTH TO SAFELY SUPPORT THEIR OWN WEIGHT AND ANY ADDITIONAL CONSTRUCTION, STORAGE, AND/OR OTHER LOADS TO WHICH THE MAY BE SUBJECTED. IN NO CASE SHALL THEY BE REMOVED PRIOR TO 7 DAYS. RE-SHORING SHALL BE IMMEDIATELY INSTALLED UPON REMOVAL OF SUCH FORMS AND SHALL REMAIN IN PLACE UNTIL 28 DAYS AFTER PLACING OF MATERIAL OR UNTIL MATERIAL HAS REACHED ITS 28 DAY DESIGN STRENGTH, WHICHEVER IS LONGER. DO NOT REMOVE LARGE AREAS OF SHORING BEFORE STARTING RE-SHORING PROCEDURES.
   C. NON-BEARING INTERIOR WALLS SHALL BE ADEQUATELY BRACED TO THE STRUCTURE ABOVE WITH ALLOWANCE FOR DEFLECTION OF THE STRUCTURE ABOVE AND/OR BELOW.
   D. BUILDING WALLS WHICH RETAIN EARTH MUST BE BRACED AT THE TOP. DO NOT BACKFILL UNLESS BRACING IS PROVIDED OR UNTIL THE COMPLETE FLOOR OR ROOF SYSTEM IS IN PLACE, TYPICAL, UNLESS NOTED OTHERWISE.

5. OMISSIONS AND/OR CONFLICTS:
   A. OMISSIONS IN AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH ANY WORK INVOLVED.
   B. IN CASE OF CONFLICTS IN THE STRUCTURAL WORK, THE MOST STRINGENT REQUIREMENTS, AS DIRECTED BY THE ARCHITECT AND STRUCTURAL ENGINEER, SHALL BE IMPLEMENTED AT NO ADDITIONAL COST TO THE OWNER.

6. MISCELLANEOUS:
   A. DURING AND AFTER CONSTRUCTION, THE CONTRACTOR AND/OR OWNER SHALL KEEP THE LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN.
   B. OBSERVATION VISITS TO THE SITE BY REPRESENTATIVES OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHALL NOT BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
   C. STAIRS ARE TO BE AS PER THE ARCHITECTURAL DRAWINGS.
   D. ELEVATOR MACHINERY SUPPORT BEAMS, GUIDE RAILS, SUPPORTS, ETC., SHALL BE SUPPLIED BY THE ELEVATOR MANUFACTURER. ALL LOADS IMPOSED BY THE ELEVATOR ONTO THE STRUCTURE SHALL BE DETERMINED BY THE ELEVATOR MANUFACTURER AND SHALL BE CLEARLY SHOWN ON SHOP DRAWINGS SUBMITTED FOR REVIEW. ADDITIONAL FRAMING MAY BE REQUIRED FOR THE PROPER SUPPORT OF THESE LOADS. COORDINATE WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
   E. ALL WORK SHALL BE DONE IN ACCORDANCE WITH OSHA REQUIREMENTS. ANY CONFLICTS BETWEEN THESE DOCUMENTS AND OSHA REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH WORK.

7. SUBMITTALS:
   A. THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION, ERECTION, INSTALLATION, OR OTHERWISE BEING INCORPORATED INTO THE WORK.
   MATERIALS CERTIFICATION FOR ALL CONCRETE MATERIALS.
   MIX DESIGNS FOR EACH TYPE OF CONCRETE.
   MATERIALS CERTIFICATION FOR ALL MASONRY MATERIALS.
   REINFORCING STEEL SHOP DRAWINGS.
   STRUCTURAL STEEL SHOP DRAWINGS.
   WELDING PROCEDURES AND CERTIFICATIONS.
   LIGHT GAGE METAL SHOP DRAWINGS.
   STEEL JOIST AND JOIST GIRDER SHOP DRAWINGS. *
   STEEL DECK SHOP DRAWINGS.
   VENEER TIES AND ANCHORS.
   OTHER (AS DIRECTED BY THE ARCHITECT AND STRUCTURAL ENGINEER)
   * THESE SUBMITTALS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER CURRENTLY LICENSED IN THE STATE OF UTAH.
   B. A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE REVIEW OF ALL SUBMITTALS BY THE ARCHITECT AND STRUCTURAL ENGINEER.
   C. REQUESTS FOR SUBSTITUTIONS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER IN WRITING. REASON(S) FOR THE REQUEST AND COST DIFFERENTIALS SHALL BE INCLUDED IN THE REQUESTS. SUBSTITUTIONS ARE NOT ALLOWED UNLESS APPROVED IN WRITING BY THE ARCHITECT AND STRUCTURAL ENGINEER.

8. DEFERRED SUBMITTALS:
   A. THE FOLLOWING ITEMS REQUIRING DEFERRED SUBMITTALS ARE LISTED BELOW. THESE ITEMS SHALL BE DESIGNED AND FABRICATED BY THE MANUFACTURER ACCORDING TO THE SPECIFICATIONS GIVEN IN THE CONTRACT DOCUMENTS.
   OPEN WEB STEEL ROOF JOISTS AND GIRDERS
   STEEL STAIRS
   LIGHT GAGE METAL FRAMING
   B. THESE DEFERRED SUBMITTALS SHALL FIRST BE SUBMITTED TO THE PROJECT ARCHITECT AND/OR ENGINEER FOR REVIEW AND COORDINATION. UPON THE COMPLETION OF THE ARCHITECT/ENGINEER REVIEW, THE ARCHITECT/ENGINEER WILL SUBMIT THE DEFERRED SUBMITTALS TO THE BUILDING OFFICIAL FOR REVIEW AND APPROVAL. THE SUBMITTAL TO THE BUILDING OFFICIAL SHALL INCLUDE A LETTER STATING THAT THE ARCHITECT/ENGINEER REVIEW HAS BEEN PERFORMED AND THAT THE PLANS AND THE CALCULATIONS FOR THE DEFERRED SUBMITTAL ITEMS ARE FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN DRAWINGS WITH NO EXCEPTIONS.
   C. THE FINAL SUBMITTAL SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH CONSTRUCTION WILL OCCUR AND SHALL BE AVAILABLE AT THE JOBSITE THROUGHOUT CONSTRUCTION.
   D. CONSTRUCTION RELATED TO DEFERRED SUBMITTALS SHALL NOT COMMENCE UNTIL THE BUILDING OFFICIAL HAS APPROVED THE SUBMITTAL.

## SOILS

1. SOILS REPORT BY: IGES
2. SOILS REPORT NUMBER AND DATE: 01745-004 09/25/2014
3. SOIL BEARING PRESSURE: 1500 PSF ON NATIVE SOIL
4. MINIMUM FROST COVER: 30"
5. LATERAL SOIL PRESSURE FLUID EQUIVALENT DENSITY
   A. ACTIVE 37 PCF
   B. AT REST 63 PCF
   C. PASSIVE 763 PCF
   D. SEISMIC ACTIVE 24 PCF
   E. SEISMIC PASSIVE -125 PCF
6. COEFFICIENT OF FRICTION 0.35
7. THE SOILS ENGINEER SHALL REVIEW ALL EXCAVATIONS AND FILL PLACEMENT PRIOR TO PLACING CONCRETE.

## SITE PREPARATION

1. CLEARING: THE ENTIRE BUILDING AREA SHALL BE SCRAPED TO REMOVE THE TOPSOIL INCLUDING ALL VEGETATION, DEBRIS, AND DELETERIOUS MATERIAL.
2. DO NOT PLACE ANY FOOTING ON UNSUITABLE OR DELETERIOUS MATERAL. REMOVE ALL UNSUITABLE MATERIAL BELOW FOOTINGS AND REPLACE WITH COMPACTED STRUCTURAL FILL AS OUTLINED IN THE GEOTECHNICAL REPORT.
3. ALL NATURAL UNDISTURBED SOILS LOCATED BELOW ALL FOOTINGS SHALL BE PROOF ROLLED AND TESTED PRIOR TO PLACING CONCRETE. REMOVE ALL SOFT SPOTS AND REPLACE WITH COMPACTED STRUCTURAL FILL.
4. COMPACTED STRUCTURAL FILL: SEE SOILS REPORT FOR STRUCTURAL FILL REQUIREMENTS.
5. CONSULT THE PROJECT SPECIFICATIONS AND SOILS REPORT FOR FURTHER EARTHWORK REQUIREMENTS. THE SOILS ENGINEER SHALL REVIEW ALL EXCAVATIONS AND FILL PLACEMENT PRIOR TO PLACING CONCRETE.

## QUALITY ASSURANCE PLAN FOR STRUCTURE

1. INSPECTION:
   A. THE OWNER SHALL PROVIDE SPECIAL INSPECTION BY QUALIFIED INSPECTORS FOR THE FOLLOWING TYPES OF CONSTRUCTION IN ACCORDANCE WITH IBC, SECTION 1704 AND 1707, THE SPECIFICATIONS, AND THE ATTACHED TABLES INCLUDED IN THESE GENERAL NOTES.
   SOILS: THE BOTTOM OF EXCAVATIONS AND PLACEMENT OF STRUCTURAL FILL.
   REINFORCED CONCRETE: DURING THE CASTING OF ALL CONCRETE AND TAKING OF ALL TEST SPECIMENS, AND SHALL VERIFY THE PLACEMENT OF ALL REINFORCING. INSPECTOR SHALL BE ACI-II OR ICC CERTIFIED.
   MASONRY: DURING THE PLACING OF ALL MASONRY UNITS, ALL GROUTING PROCEDURES, AND TAKING OF ALL TEST SPECIMENS, AND SHALL VERIFY THE PLACEMENT OF ALL REINFORCING. INSPECTOR SHALL BE ICC CERTIFIED.
   BOLTING: ALL HIGH STRENGTH BOLTS AND BOLTS EMBEDDED IN CONCRETE AND/OR EPOXY.
   WELDING: ALL SHOP AND FIELD WELDS. INSPECTOR SHALL BE AWS-QC1 CERTIFIED.
   POST-INSTALLED ANCHORS:THE FIRST 25 POST-INSTALLED ANCHORS SHALL BE INSPECTED AND 10 PERCENT OF THE REMAINING ANCHORS SHALL BE INSPECTED.
2. TESTING:
   A. THE OWNER SHALL PROVIDE TESTING BY QUALIFIED TESTING AGENCIES FOR THE FOLLOWING TYPES OF CONSTRUCTION IN ACCORDANCE WITH IBC, SECTION 1708 AND THE SPECIFICATIONS.
   SOILS: COMPACTION OF STRUCTURAL FILL.
   CONCRETE: STRENGTH, SLUMP, AIR, AND TEMPERATURE.
   MASONRY: STRENGTH OF MORTAR, GROUT, BLOCK, AND PRISMS.
   BOLTING: PROPER INSTALLATION AND CORRECT TORQUE AND/OR TENSION.
   WELDING: TYPE, SIZE, LENGTH, AND QUALITY OF ALL SHOP AND FIELD WELDS BY APPROVED METHODS. ULTRASONICALLY TEST ALL COMPLETE PENETRATION WELDS.
3. STRUCTURAL OBSERVATIONS:
   A. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO PERFORM STRUCTURAL OBSERVATIONS AT THE FOLLOWING STAGES OF CONSTRUCTION:
   PRIOR TO PLACEMENT OF CONCRETE FOUNDATIONS
   PRIOR TO PLACEMENT OF CONCRETE MEMBERS
   PRIOR TO PLACEMENT OF GROUT IN MASONRY
   AFTER PLACEMENT OF STEEL MEMBERS
   AFTER PLACEMENT OF STEEL DECK
   B. THE STRUCTURAL ENGINEER SHALL PROVIDE A COPY OF THE OBSERVATION REPORT TO THE BUILDING OFFICIAL AND ARCHITECT FOR FURTHER DISTRIBUTION.
4. THE CONTRACTOR SHALL:
   A. SUBMIT A STATEMENT OF RESPONSIBILITY TO THE OWNER AND BUILDING OFFICIAL PRIOR TO COMMENCING WORK ON STRUCTURE THAT INCLUDES AWARENESS OF THE QUALITY ASSURANCE PLAN REQUIREMENTS, ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE TO CONSTRUCTION DOCUMENTS, PROCEDURES FOR EXERCISING CONTROL, METHOD AND FREQUENCY OF REPORTING, AND IDENTIFICATION AND QUALIFICATIONS OF PERSONNEL IN CHARGE OF CONTROL.
   B. CORRECT ALL WORK FOUND TO BE DEFICIENT AT NO ADDITIONAL COST TO THE OWNER.
   C. COORDINATE ALL THE REQUIRED INSPECTIONS, TESTING, AND/OR STRUCTURAL OBSERVATIONS OF THE QUALITY ASSURANCE PLAN. DO NOT PROCEED WITH SUBSEQUENT WORK UNTIL THE REQUIRED INSPECTIONS, TESTING, AND STRUCTURAL OBSERVATIONS HAVE BEEN PROVIDED. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER AT LEAST 48 HOURS PRIOR TO ANY REQUIRED OBSERVATIONS.
   D. PROVIDE COPIES OF THE DAILY INSPECTION REPORTS AND ALL TESTING RESULTS TO THE ARCHITECT, STRUCTURAL ENGINEER, OWNER, AND BUILDING OFFICIAL.

## CONCRETE

1. CODES AND STANDARDS:
   A. CONCRETE CONSTRUCTION, WORKMANSHIP, AND MATERIALS SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE (ACI) EDITIONS OF:
   I. ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
   II. ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", EXCEPT AS MODIFIED BY THE IBC.
   III. ACI 347, "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK".
2. MATERIALS:
   A. CEMENT SHALL CONFORM TO ASTM C150, TYPE I PORTLAND CEMENT.
   B. HARD ROCK AGGREGATES SHALL CONFORM TO ASTM C33. LIGHTWEIGHT AGGREGATES SHALL CONFORM TO ASTM C330.
   C. WATER SHALL BE POTABLE.
   D. AIR ENTRAINMENT SHALL CONFORM TO ASTM C260.
   E. FLY ASH, CLASS F POZZOLAN SHALL CONFORM TO ASTM C618.
   F. CALCIUM CHLORIDE SHALL NOT BE USED.
   G. DEFORMED BAR ANCHORS (DBA) SHALL CONFORM TO ASTM A496.
   H. HEADED ANCHOR STUDS (HAS) SHALL CONFORM TO ASTM A108.
   I. SILICA FUME (2% TO SUSPENDED PARKING SLABS) SHALL CONFORM TO ASTM C1240
3. MIX DESIGNS:
   A. ONLY ONE TYPE OF CONCRETE SHALL BE PLACED AT THE SITE AT ANY GIVEN TIME.
   B. A MIX DESIGN THAT PRODUCES THE LOWEST SLUMP COMPATIBLE WITH PROPER PLACEMENT SHALL BE USED, 4" MAXIMUM.
   C. CONCRETE MIXES SHALL CONFORM TO THE FOLLOWING:
   D. NO PENETRATION SHALL BE ALLOWED THROUGH ANY CONCRETE BEAM, JOIST, COLUMN, PIER, OR JAMB WITHOUT THE ARCHITECT?S AND STRUCTURAL ENGINEER'S PRIOR WRITTEN APPROVAL. PENETRATIONS SHALL BE RE-ROUTED AS REQUIRED AT THESE LOCATIONS.
   E. ALL BOLT HOLES TO BE FILLED WITH EPOXY SHALL BE WIRE BRUSHED AND CLEANED WITH COMPRESSED AIR. FOLLOW MANUFACTURERS RECOMMENDATIONS.

CONCRETE MIX DESIGN TABLE

| TYPE OF MEMBER | MIN. STRENGTH @ 28 DAYS (PSI) | MAX. W/C (RATIO) | DRY WEIGHT (PCF) | MAX AGGREGTE SIZE (INCHES) | AIR ENTRAIN-MENT (%) | MIN. CEMENT PER YARD (LBS) | EXPOSURE CLASS |
|---|---|---|---|---|---|---|---|
| EXTERIOR MEMBERS | | | | | | | |
| FOOTINGS | 4500 | 0.42 | 145 | 3/4 | 6±1 | 611 | F1,S0,P0,C1 |
| GRADE BEAMS | 4500 | 0.42 | 145 | 3/4 | 6±1 | 611 | F1,S0,P0,C1 |
| WALLS | 4500 | 0.42 | 145 | 3/4 | 6±1 | 611 | F1,S0,P0,C1 |
| SLAB ON GRADE | 4500 | 0.42 | 145 | 3/4 | 6±1 | 611 | F1,S0,P0,C1 |
| INTERIOR MEMBERS | | | | | | | |
| FOOTINGS | 4000 | 0.45 | 145 | 3/4 | 3±1 | 564 | F0,S0,P0,C1 |
| WALLS | 4000 | 0.45 | 145 | 3/4 | 3±1 | 564 | F0,S0,P0,C1 |
| SLAB ON GRADE | 4000 | 0.45 | 145 | 3/4 | 0 | 564 | F0,S0,P0,C1 |
| SUSPENDED SLABS AND SLABS ON METAL DECK | | | | | | | |
| SLAB ON METAL DECK (NW) | 4000 | 0.45 | 145 | 3/4 | 0 | 564 | F0,S0,P0,C0 |
| SLAB ON METAL DECK (LW)* | 4000 | 0.45 | 110 | 3/4 | 0 | 564 | F0,S0,P0,C0 |

* (LW) CONCRETE SHALL HAVE A MIN. SPLITTING TENSILE STRENGTH OF 450 PSI.

4. FOOTINGS:
   A. FOOTINGS SHALL BEAR ON PROPERLY PREPARED MATERIAL. SEE THE SITE PREPARATION NOTES.
   B. FOOTINGS SHALL BE CENTERED BELOW THE WALL AND/OR COLUMN ABOVE, TYPICAL UNLESS NOTED OTHERWISE.
   C. EXTERIOR FOOTINGS SHALL BEAR BELOW THE EFFECTS OF FROST.
   D. PROVIDE A 2X4 BEVELED KEY WAY IN ALL CONTINUOUS WALL FOOTINGS.
   E. STAGGER FOOTING CONSTRUCTION JOINTS FROM WALL CONSTRUCTION JOINTS ABOVE BY AT LEAST 6 FEET.
   F. REINFORCING IN CONTINUOUS FOOTINGS SHALL BE CONTINUOUS AT CORNERS AND/OR INTERSECTIONS BY PROVIDING PROPER LAP LENGTHS AND/OR CORNER BARS.
   G. CONTINUOUS FOOTINGS WITHOUT CONCRETE FOUNDATION WALLS ABOVE SHALL BE REINFORCED WITH A MINIMUM OF (2) #6 LONGITUDINAL TOP BARS IN ADDITION TO REINFORCING SPECIFIED IN THE FOOTING SCHEDULE. AT OPENINGS, PROVIDE (1) #6 TOP BAR FOR EACH FOOT OF FOOTING WIDTH OR PORTION THEREOF, EXTEND 24" BEYOND EDGE OF OPENING, EACH SIDE.
   H. NO PENETRATIONS SHALL BE ALLOWED THROUGH ANY CONCRETE FOOTING. WHEN CONFLICTS ARISE BETWEEN UNDERGROUND PLUMBING, UTILITIES, ETC., THE FOOTING SHALL BE STEPPED DOWN BELOW THE CONFLICT AND A CONCRETE WALL, PIER, COLUMN ETC., SHALL BE EXTENDED TO THE FOOTING AS REQUIRED.
   I. BEARING SURFACES FOR FOOTINGS WHICH ARE, OR BECOME, UNDERMINED DURING CONSTRUCTION SHALL BE BACKFILLED WITH A LEAN-MIX CONCRETE (2000 PSI MIN.).
5. SLABS ON GRADE:
   A. INTERIOR SLABS ON GRADE SHALL BE A MINIMUM OF 4 INCHES THICK, SHALL BEAR ON A 4 INCH MINIMUM LAYER OF FREE-DRAINING GRAVEL, AND SHALL BE REINFORCED WITH #4 BARS AT 18" O.C. BOTH WAYS, TYPICAL UNLESS NOTED OTHERWISE. PROVIDE CHAIRS WITH SAND PLATES FOR PROPER PLACEMENT.
   B. SLABS ON GRADE SHALL BE SUBDIVIDED BY CONSTRUCTION AND/OR CONTRACTION (CONTROL) JOINTS INTO ROUGHLY SQUARES WHOSE SIDES SHALL NOT EXCEED 15 FEET IN EITHER DIRECTION.
   C. SEE ARCHITECTURAL FOR EXTERIOR SLABS ON GRADE, TYPICAL, UNLESS NOTED OTHERWISE.
6. WALLS:
   A. CONCRETE WALLS SHALL BE REINFORCED AS FOLLOWS, UNLESS NOTED OTHERWISE:

| WALL THICKNESS (SHEAR WALLS) | VERTICAL REINFORCING (GF 0.0025) | HORIZONTAL REINFORCING (GF 0.0025) |
|---|---|---|
| 8" | #5 @ 14" O.C. | #5 @ 14" O.C. |
| 10" | #5 @ 12" O.C. | #5 @ 12" O.C. |
| 12" | #4 @ 12" O.C.,E.F. | #4 @ 12" O.C.,E.F. |
| 14" | #4 @ 10" O.C.,E.F. | #4 @ 10" O.C.,E.F. |
| 16" | #5 @ 14" O.C.,E.F. | #5 @ 14" O.C.,E.F. |

   B. PLACE VERTICAL REINFORCING IN THE CENTER OF THE WALL (EXCEPT FOR BASEMENT WALLS, RETAINING WALLS, OR WHEN EACH FACE IS SPECIFIED).
   C. VERTICAL REINFORCING SHALL BE DOWELED TO CONCRETE FOOTING OR STRUCTURE BELOW AND TO STRUCTURE ABOVE WITH THE SAME SIZE BAR AND SPACING, TYPICAL, UNLESS NOTED OTHERWISE.
   D. PROVIDE CORNER BARS AT ALL INTERSECTIONS AND CORNERS. USE SAME SIZE BAR AND SPACING AS THE HORIZONTAL REINFORCING.
   E. HORIZONTAL REINFORCING SHALL TERMINATE AT THE ENDS OF WALLS AND AT OPENINGS WITH A STANDARD HOOK.
   F. WHEN TWO CURTAINS OF STEEL ARE REQUIRED, THE SPLICES IN THE HORIZONTAL REINFORCING OF EACH CURTAIN SHALL NOT OCCUR AT THE SAME LOCATION.
   G. PENETRATIONS THROUGH ANY CONCRETE WALL SHALL BE BUILT INTO THE WALL AS THE WALL IS BEING CONSTRUCTED AND SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
   H. PROVIDE DRAINAGE AT THE BASE OF RETAINING WALLS AND AT THE BASE OF ALL BASEMENT WALLS.
7. SUSPENDED SLABS, SLABS ON DECK, BEAMS, AND JOISTS:
   A. LARGE AREAS OF SUSPENDED SLAB SHALL BE PLACED SUCH THAT THE MAXIMUM EXTENT OF ANY INDIVIDUAL CASTING OF SUSPENDED SLAB SHALL NOT EXCEED 65 FEET IN EITHER DIRECTION.
   B. FORMS AND SCREEDS FOR SUSPENDED CONCRETE MEMBERS SHALL BE CAMBERED 1/4" PER 10 FEET OF SPAN TO COMPENSATE FOR DEAD LOAD DEFLECTIONS.
   C. CONSTRUCTION JOINTS IN SUSPENDED SLABS AND/OR BEAMS SHALL OCCUR AT OR NEAR MID SPAN, WITHIN THE MIDDLE THIRD. COORDINATE PLACEMENT WITH THE ARCHITECT AND STRUCTURAL ENGINEER. SEE PLANS FOR REQUIRED POUR STRIPS.
   D. BRIDGING IN CONCRETE JOISTS SHALL BE 6 INCHES NOMINAL WIDTH BY FULL DEPTH OF THE JOIST. REINFORCE WITH 1#5 BY CONTINUOUS TOP AND BOTTOM.
8. COLUMNS:
   A. VERTICAL REINFORCING IN COLUMNS SHALL HAVE A MINIMUM OF 40 BAR DIAMETERS SPLICE LENGTH. SPLICES SHALL OCCUR AT FLOOR LEVELS ONLY.
   B. LATERAL TIES IN COLUMNS SHALL BE SPACED AT ONE HALF THE REGULAR SPACING BUT NOT MORE THAN 8 INCHES ON CENTER AT THE TOP AND BOTTOM OF THE COLUMN FOR A DISTANCE OF 1/6 THE CLEAR COLUMN HEIGHT, THE MAXIMUM COLUMN PLAN DIMENSION, OR 18 INCHES, WHICHEVER IS GREATER.
   C. WHEN CROSS SECTIONAL CHANGES OCCUR IN COLUMNS, THE LONGITUDINAL BARS SHALL BE OFFSET IN A REGION WHERE LATERAL SUPPORT IS PROVIDED. AT THE OFFSET, THE SLOPE OF THE INCLINED PORTION SHALL NOT BE MORE THAN 1 IN 6, AND THE LATERAL TIES SHALL BE SPACED NOT OVER 3 INCHES ON CENTER FOR A DISTANCE OF ONE FOOT BELOW AND ABOVE THE POINT OF OFFSET.

## MASONRY

1. CODES AND STANDARDS:
   A. MASONRY CONSTRUCTION, WORKMANSHIP, AND MATERIALS SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE (ACI) 530.1, "SPECIFICATIONS FOR MASONRY STRUCTURES", AND SECTIONS 2103, 2104, AND 2105 OF THE IBC.
2. MATERIALS:
   A. MASONRY BRICK SHALL BE "ATLAS BRICK" HOLLOW CLAY MASONRY UNITS AND SHALL CONFORM TO ASTM C652, GRADE SW, TYPE HBS WITH A MINIMUM COMPRESSIVE STRENGTH OF 9000 PSI AT 28 DAYS.
   B. MORTAR SHALL BE TYPE "S" AS DEFINED BY THE IBC AND SHALL CONFORM TO ASTM C270, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS. IT SHALL CONSIST OF 1.0 PART PORTLAND CEMENT, 0.25 TO 0.5 PARTS HYDRATED LIME OR PUTTY LIME, AND 3.5 TO 4.5 PARTS SAND. ALL MEASUREMENTS ARE PARTS BY VOLUME. NO ADDITIVES ARE ALLOWED.
   C. GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 FOR F'M = 3000 PSI AT 28 DAYS. IT SHALL BE OF A FLUID CONSISTENCY AND SHALL CONSIST OF A MINIMUM OF 1.0 PART PORTLAND CEMENT, 2.25 TO 3.0 PARTS SAND, AND MAY CONTAIN AN ADDITIONAL 1 TO 2 PARTS PEA GRAVEL IF GROUT SPACES ARE 4" OR MORE IN EVERY DIRECTION. ALL MEASUREMENTS ARE PARTS BY VOLUME. LIMIT FLY ASH TO 15% OF THE TOTAL CEMENTITIOUS MATERIAL.
   D. PRISM TESTS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'M = 3000 PSI AT 28 DAYS.
   E. EPOXY SHALL CONFORM TO ASTM C881, TYPES I, II, IV, AND V, GRADE 3, CLASSES B AND C.
3. CONSTRUCTION:
   A. ALL MASONRY BLOCK SHALL BE STORED UNDER COVER AT THE JOB SITE.
   B. FACE SHELLS SHALL BE FULLY BEDDED.
   C. ALL MORTAR JOINTS SHALL BE TOOLED CONCAVE UNLESS NOTED OTHERWISE.
   D. DO NOT USE MORTAR FOR GROUT.
   E. DO NOT USE ANY FROZEN MATERIAL.
   F. PRIOR TO PLACING MASONRY, CHECK WITH ALL TRADES TO INSURE PROPER PLACEMENT OF OPENINGS, BLOCK OUTS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, EMBEDS, DOWELS, ETC.
   G. GROUT SHALL BE POURED IN ACCORDANCE WITH LOW LIFT PROCEDURES PER ACI 530, TYPICAL, UNLESS NOTED OTHERWISE.
   H. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING AND RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ABSORBED BUT BEFORE WORKABILITY IS LOST.
   I. ALL CELLS WHICH CONTAIN REINFORCING, BOLTS, ANCHORS, ETC., AND AS OTHERWISE SPECIFIED SHALL BE GROUTED SOLID. ALL CELLS WHICH ARE TO BE GROUTED SHALL BE CLEAN AND FREE FROM DELETERIOUS MATERIALS.
   J. GROUT SOLID AROUND ALL JOIST AND BEAM ENDS, TYPICAL UNLESS NOTED OTHERWISE.
   K. HOLES FOR BOLTS IN MASONRY FACE OR END SHELLS SHALL HAVE A DIAMETER TWO INCHES LARGER THAN THE BOLT DIAMETER AND THE HOLE SHALL BE FILLED WITH GROUT.
   L. NO PENETRATION SHALL BE ALLOWED THROUGH ANY MASONRY BEAM, COLUMN, PIER, OR JAMB WITHOUT THE ARCHITECT'S AND STRUCTURAL ENGINEER'S PRIOR WRITTEN APPROVAL. PENETRATIONS SHALL BE RE-ROUTED AS REQUIRED AT THESE LOCATIONS.
   M. ALL BOLTS TO BE DRILLED AND EPOXIED SHALL BE INSTALLED IN SOLID MATERIAL. AT CAVITY LOCATIONS GROUT SOLID. ALL BOLT HOLES TO BE FILLED WITH EPOXY SHALL BE WIRE BRUSHED AND CLEANED WITH COMPRESSED AIR. FOLLOW MANUFACTURERS RECOMMENDATIONS.
4. WALLS:
   A. MASONRY WALLS SHALL BE CONSTRUCTED UTILIZING COMMON RUNNING BOND, TYPICAL, UNLESS NOTED OTHERWISE.
   B. MASONRY WALLS SHALL BE BUILT AS AN INTEGRAL UNIT AT CORNERS AND INTERSECTIONS. REINFORCING SHALL BE CONTINUOUS AND BACK TO BACK END SHELLS SHALL BE REMOVED IN EACH COURSE.
   C. MASONRY WALLS SHALL BE REINFORCED AS FOLLOWS, UNLESS NOTED OTHERWISE.

| WALL THICKNESS | VERTICAL REINFORCING | HORIZONTAL REINFORCING |
|---|---|---|
| 6" | 1-#5 AT 32" O.C. | 1-#4 AT 48" O.C. |
| 8" | 1-#5 AT 32" O.C. | 2-#4 AT 48" O.C. |
| 10" | 1-#6 AT 32" O.C. | 2-#4 AT 48" O.C. |
| 12" | 1-#7 AT 32" O.C. | 2-#4 AT 48" O.C. |

   SEE PLANS, SCHEDULES, AND DETAILS FOR OTHER REINFORCING REQUIREMENTS.
   D. PLACE VERTICAL REINFORCING IN THE CENTER OF THE WALL UNLESS EACH FACE IS SPECIFIED OR UNLESS NOTED OTHERWISE.
   E. VERTICAL REINFORCING SHALL BE DOWELED TO CONCRETE FOOTING OR FOUNDATION WALL BELOW AND TO STRUCTURE ABOVE WITH THE SAME SIZE BAR AND SPACING, TYPICAL, UNLESS NOTED OTHERWISE.
   F. PROVIDE VERTICAL REINFORCING IN GROUTED CELL AT ALL CORNERS AND INTERSECTIONS.
   G. PROVIDE CORNER BARS AT ALL INTERSECTIONS AND CORNERS. USE SAME SIZE BAR AND SPACING AS THE HORIZONTAL REINFORCING.
   H. HORIZONTAL REINFORCING SHALL TERMINATE AT THE ENDS OF WALLS AND AT OPENINGS WITH A STANDARD HOOK.
   I. HORIZONTAL REINFORCING SHALL OCCUR AT THE TOP AND BOTTOM COURSE OF ALL MASONRY WALLS EXCEPT THE BOTTOM COURSE HORIZONTAL REINFORCING MAY BE OMITTED WHEN THE WALL IS DOWELED TO A CONCRETE FOUNDATION WALL BELOW.
   J. OPENINGS IN WALLS WHICH EXCEED 24 INCHES IN EITHER DIRECTION SHALL BE REINFORCED WITH A MINIMUM OF 2-#5 BARS IN GROUTED SPACE ON ALL SIDES OF THE OPENING, TYPICAL, UNLESS NOTED OTHERWISE. VERTICAL BARS SHALL EXTEND THE FULL HEIGHT OF THE WALL BETWEEN SUPPORTS. HORIZONTAL BARS SHALL EXTEND A MINIMUM OF 24 INCHES BEYOND THE EDGES OF THE OPENING.
   K. PENETRATIONS THROUGH ANY MASONRY WALL SHALL BE BUILT INTO THE WALL AS THE WALL IS BEING CONSTRUCTED AND SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
   L. CONSTRUCTION JOINTS IN REINFORCED MASONRY WALLS SHALL NOT OCCUR AT THE EDGE OF BEAM SUPPORTS AND SHALL BE PROVIDED PER THE ARCHITECTURAL DRAWINGS.
   M. WHERE HORIZONTAL REINFORCING BARS JOIN CONCRETE WALLS, COLUMNS, OR PILASTERS, REINFORCING SHALL BE CONTINUOUS. ALSO, A KEY SHALL BE PROVIDED BETWEEN THE MASONRY AND THE CONCRETE. FILL KEY WITH GROUT.
5. BEAMS:
   A. BEAMS SHALL BE BUILT AS AN INTEGRAL PART WITH THE SUPPORT. NO TOOTHING OR DOWELING ONLY WILL BE PERMITTED. MASONRY UNITS WITH ONE END OPEN-ENDED ("A" BLOCKS) SHALL BE USED IN ALL MASONRY BEAMS. BACK-TO-BACK END SHELLS ARE NOT ALLOWED. GROUT ALL MASONRY BEAMS SOLID FOR FULL DEPTH AND WIDTH SHOWN IN MASONRY BEAM SCHEDULE.
   B. REINFORCING IN THE MASONRY BEAM SCHEDULE IS IN ADDITION TO STANDARD WALL REINFORCING.
   C. HORIZONTAL REINFORCING BARS IN THE TOP OF THE MASONRY BEAM SHALL BE PLACED IN THE TOP 4 INCHES OF THE BEAM AND SHALL EXTEND A MINIMUM OF 72 BAR DIAMETERS BEYOND THE EDGE OF THE OPENING OR SHALL BE HOOKED IF REQUIRED.
   D. HORIZONTAL REINFORCING BARS IN THE BOTTOM OF THE MASONRY BEAM SHALL BE PLACED IN THE BOTTOM 4 INCHES OF THE BEAM AND SHALL EXTEND A MINIMUM OF 24 INCHES BEYOND THE EDGE OF THE OPENING OR SHALL BE HOOKED IF REQUIRED.
   E. VERTICAL REINFORCING BARS SHALL HOOK AROUND THE BOTTOM HORIZONTAL REINFORCING BARS. THEY SHALL ALSO HOOK AROUND THE TOP HORIZONTAL REINFORCING BARS OR EXTEND INTO THE WALL ABOVE THE MASONRY BEAM A MINIMUM OF 48 BAR DIAMETERS.
   F. DO NOT SPLICE HORIZONTAL TOP OR BOTTOM BARS, TYPICAL UNLESS NOTED OTHERWISE.
   G. FOR OPENINGS NOT SHOWN, USE SIMILAR BEAM AS SHOWN IN THAT WALL OR TYPE OF WALL FOR SIMILAR LENGTH OPENINGS. VERIFY WITH THE STRUCTURAL ENGINEER.
   H. USE THE FOLLOWING MASONRY BEAM SIZES FOR OPENINGS IN NON-BEARING MASONRY WALLS:

| WIDTH OF OPENING (FEET) | BEAM WIDTH (INCHES) | BEAM DEPTH (INCHES) | HORIZ. REINF. |
|---|---|---|---|
| UP TO 4'-0" | SAME AS WALL | 16 | 2 # 5 BOTT. |
| UP TO 8'-0" | SAME AS WALL | 24 | 2 # 5 TOP & BOTT. |
| UP TO 10'-0" | SAME AS WALL | 32 | 2 # 5 TOP & BOTT. |

   FOR WIDER OPENINGS CONTACT THE STRUCTURAL ENGINEER. SEE THE MASONRY BEAM SCHEDULE FOR ADDITIONAL INFORMATION.
6. COLUMNS:
   A. GROUT JAMBS SOLID FOR FULL HEIGHT OF WALL (FLOOR TO FLOOR AND/OR ROOF) AT SIDES OF OPENINGS; ONE CELL FOR EACH 4'-0" OF SPAN OR PORTION THEREOF. REINFORCE WITH 2-#5 VERTICAL BARS IN EACH GROUTED CELL WITH ONE BAR PLACED AT EACH FACE OF WALL, TYPICAL UNLESS NOTED OTHERWISE. SEE PLANS, SCHEDULES, AND DETAILS FOR OTHER REINFORCING REQUIREMENTS.

## MASONRY VENEER

1. PRODUCT:
   A. LEDGERS AND LINTELS SHALL BE ASTM A36 GALVANIZED MATERIAL.
   B. MASONRY VENEER ANCHOR TIES SHALL BE ONE OF THE FOLLOWING.
   I. 2 SEAL SEISMIC TIE BY HOHMANN & BARNARD.
   II. ARCHITECT AND STRUCTURAL ENGINEER APPROVED TWO PIECE ADJUSTABLE HOT-DIPPED GALVANIZED TIES.
2. INSTALLATION:
   A. MASONRY VENEER SHALL BE INDEPENDENTLY SUPPORTED AT EACH STORY IN SEISMIC DESIGN CATEGORY D, E, OR F.
   B. MAXIMUM SPACING OF ANCHOR TIES SHALL BE 16" O.C. HORIZONTAL AND VERTICAL.
   C. PROVIDE CONTINUOUS HORIZONTAL GALVANIZED #9 WIRE IN CENTER THIRD OF MORTAR JOINTS AT 16" O.C.. ENGAGE #9 WIRE WITH ALL ANCHOR TIES.
   D. MAXIMUM SPACING OF STUD BACKING SHALL BE 16" O.C. STUDS SHALL BE COVERED WITH 1/2" SHEATHING AND APPROVED PAPER.
   E. CONSTRUCTION JOINTS IN MASONRY VENEER WALLS SHALL BE PROVIDED AS PER THE ARCHITECTURAL DRAWINGS, AND SHALL BE SPACED AT A MAXIMUM OF 30'-0" O.C. FOR BRICK VENEER AND A MAXIMUM OF 15'-0" O.C. FOR MASONRY BLOCK VENEER.

## REINFORCING STEEL

1. CODES AND STANDARDS:
   A. REINFORCING STEEL SHALL COMPLY WITH:
   I. CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
   II. AMERICAN CONCRETE INSTITUTE "DETAILING MANUAL", ACI 315 (OR SP-66).
2. MATERIALS:
   A. REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS AND SHALL CONFORM TO ASTM A615, GRADE 60, WITH A DESIGN YIELD STRENGTH OF 60,000 PSI, EXCEPT AS NOTED BELOW.
   I. DOWELS TO BE BENT IN THE FIELD DURING CONSTRUCTION SHALL BE ASTM A615, GRADE 40 OR ASTM A706, GRADE 60, "LOW-ALLOY STEEL".
   II. REINFORCING TO BE WELDED SHALL BE ASTM A706, GRADE 60,"LOW-ALLOY STEEL".
   B. MASONRY JOINT REINFORCING SHALL CONFORM TO ASTM 951 AND SHALL BE MANUFACTURED FROM WIRE WHICH CONFORMS TO ASTM A82.
   C. MECHANICAL SPLICE COUPLERS SHALL BE CAPABLE OF DEVELOPING 125% OF THE SPECIFIED STRENGTH OF THE BAR.
3. CONSTRUCTION:
   A. REINFORCING SHALL BE DETAILED, BOLSTERED, AND SUPPORTED PER ACI 315.
   B. REINFORCING STEEL SHALL BE FREE OF LOOSE FLAKY RUST, SCALE, GREASE, OIL, DIRT, AND OTHER MATERIALS WHICH MIGHT AFFECT OR IMPAIR BOND.
   C. REINFORCING SHALL BE CONTINUOUS IN WALLS, BEAMS, COLUMNS, SLABS, FOOTINGS, ETC.
   D. SPLICES IN CONTINUOUS REINFORCING SHALL BE MADE IN AREAS OF COMPRESSION AND/OR AT POINTS OF MINIMUM STRESS, TYPICAL UNLESS NOTED OTHERWISE. LAP SPLICES SHALL BE MINIMUM OF 40 BAR DIAMETERS LONG IN CONCRETE AND 48 BAR DIAMETERS LONG IN MASONRY, TYPICAL UNLESS NOTED OTHERWISE. MINIMUM LAP SHALL BE 24 INCHES LONG. DOWELS SHALL HAVE A MINIMUM OF 30 BAR DIAMETERS EMBEDMENT. TENSION SPICES SHALL BE USED IN CONCRETE WHEN SPECIFICALLY NOTED, USE A CLASS B SPLICE. SPLICES IN TOP BARS IN SUSPENDED SLABS AND BEAMS SHALL BE MADE AT MID SPAN. SPLICES IN BOTTOM BARS IN SUSPENDED SLABS AND BEAMS SHALL BE MADE AT SUPPORTS.
   E. BENDS SHALL BE MADE COLD. DO NOT USE HEAT. BENDS SHALL BE DONE IN THE FABRICATOR'S SHOP UNLESS SPECIFICALLY NOTED FOR THE FIELD. DO NOT UN-BEND OR RE-BEND A PREVIOUSLY BENT BAR.
   F. REINFORCING STEEL IN CONCRETE SHALL BE SECURELY ANCHORED AND TIED IN PLACE PRIOR TO PLACING CONCRETE AND SHALL BE POSITIONED WITH THE FOLLOWING MINIMUM CONCRETE COVER:
   CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3" CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER ... 2"
   #5 AND SMALLER ... 1-1/2"
   CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
   SLABS AND WALLS, #11 AND SMALLER ... 3/4"
   BEAMS AND COLUMNS, MAIN REINFORCING OR TIES.. 1-1/2"
   SLABS ON GRADE ... CENTER OF SLAB
   G. REINFORCING STEEL IN MASONRY SHALL BE PLACED PRIOR TO GROUTING AND SHALL BE PLACED, POSITIONED, AND LOCATED ACCORDING TO THE STRUCTURAL DRAWINGS. IT SHALL BE SECURED AGAINST DISPLACEMENT AT INTERVALS NOT TO EXCEED 200 BAR DIAMETERS OR TEN FEET.
   H. NO REINFORCING SHALL BE WELDED UNLESS SPECIFICALLY NOTED AS SUCH. USE E90XX ELECTRODES AND ASTM A706 REINFORCING. COMPLY WITH AWS D1.4 REQUIREMENTS.
   I. EPOXY COATED REINFORCING BARS SHALL BE USED WHEN SPECIFICALLY NOTED. INCREASE LAP SPLICE LENGTHS AS REQUIRED BY THE IBC AND ACI.

## STRUCTURAL STEEL

1. CODES AND STANDARDS:
   A. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL COMPLY WITH:
   I. THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360-10)", WITH "COMMENTARY".
   II. AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (AISC 303-10)" EXCLUDING SECTIONS 1.5.1,4.4,7.5.4, AND 7.13.3.
   III. AMERICAN WELDING SOCIETY (AWS-D1.1) "STRUCTURAL WELDING CODE - STEEL", EXCLUDING ITEMS CONFLICTING WITH AISC REQUIREMENTS.
2. MATERIALS:
   A. STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. OTHER STRUCTURAL STEEL SHAPES, PLATES, ANGLES, ETC. SHALL CONFORM TO ASTM A36. RUSSIAN STEEL IS NOT PERMITTED.
   B. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE B, WITH A MINIMUM YIELD STRENGTH Fy = 46 KSI.
   C. ROUND HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE B, WITH A MINIMUM YIELD STRENGTH Fy = 42 KSI.
   C. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, WITH A MINIMUM YIELD STRENGTH Fy = 35 KSI.
   D. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325 (A490). ANCHOR RODS SHALL HAVE HEADED STUDS AND SHALL CONFORM TO ASTM F1554. ALL OTHER BOLTS SHALL CONFORM TO ASTM A307 OR BETTER.
   E. HEADED ANCHOR STUDS AND DEFORMED BAR ANCHORS SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
   F. ALL MEMBERS AND WELDS WHICH HAVE COMPLETE PENETRATION GROOVE WELDS SHALL MEET THE CHARPY V-NOTCH TOUGHNESS IMPACT TEST OF 20 FOOT POUNDS AT 70 DEGREES FAHRENHEIT.
   G. ALL HOT ROLLED SECTIONS WITH FLANGES 1/2" OR THICKER SHALL HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FOOT POUNDS AT 70 DEGREES FAHRENHEIT.
3. CONSTRUCTION:
   A. FABRICATION SHALL BE DONE IN AN APPROVED FABRICATOR'S SHOP.
   B. CAMBER IN BEAMS SHALL BE AS INDICATED ON PLANS.
   C. PROVIDE A SHOP COAT OF PAINT ON ALL STEEL ITEMS, EXCEPT AT AREAS OF WELDING AND/OR BOLTING.
   D. USE HIGH STRENGTH (8000 PSI MINIMUM AT 28 DAY), NON-SHRINK, LIQUID EPOXY GROUT BENEATH ALL STEEL BASE PLATES AND BEARING PLATES. MIX GROUT WITH SAND OR PEA GRAVEL AS RECOMMENDED BY THE MANUFACTURER. PLACE GROUT AS SOON AS STEEL MEMBER HAS BEEN PROPERLY POSITIONED AND ALIGNED.
   E. WHERE STRUCTURAL STEEL WIDE FLANGE, PIPE, OR HOLLOW STRUCTURAL SECTIONS ARE EMBEDDED IN CONCRETE OR MASONRY AND REINFORCING BARS BUTT TO IT, DEFORMED BAR ANCHORS OR REINFORCING BARS WITH THE SAME SIZE AND SPACING AS THE ADJACENT REINFORCING BARS, 48 BAR DIAMETERS LONG, SHALL BE WELDED TO THE STRUCTURAL STEEL. THE MANUFACTURER'S WELDING PROCEDURES SHALL BE ADHERED TO.
4. BOLTED CONNECTIONS:
   A. STEEL TO STEEL BOLTED CONNECTIONS SHALL BE MADE WITH ASTM A325 (A490) HIGH STRENGTH BOLTS AND NUTS, UNLESS NOTED OTHERWISE. BOLTS SHALL CARRY THE IDENTIFYING MARK OF THREE (3) RADIAL LINES.
   B. ALL OTHER BOLTED CONNECTIONS SHALL BE MADE WITH BOLTS AND NUTS CONFORMING TO ASTM A307 UNLESS NOTED OTHERWISE.
   C. BOLTS SHALL BE 3/4"(7/8") DIAMETER, TYPICAL, UNLESS NOTED OTHERWISE. STANDARD SPACING SHALL BE 3" O.C. AND STANDARD EDGE DISTANCE SHALL BE 1.1/2", TYPICAL, UNLESS NOTED OTHERWISE.
   D. BOLT SHALL BE BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED UNLESS NOTED OTHERWISE.
   E. BOLTED CONNECTIONS SHALL BE TIGHTENED PER SLIP CRITICAL REQUIREMENTS AND SHALL HAVE WASHERS AS REQUIRED BY AISC UNLESS NOTED OTHERWISE.
   F. ENLARGING OF HOLES SHALL BE ACCOMPLISHED BY MEANS OF REAMING. DO NOT USE A TORCH ON ANY BOLT HOLES.
5. WELDED CONNECTIONS:
   A. WELDING AND GAS CUTTING SHALL BE DONE PER AWS.
   B. WELDERS SHALL BE CURRENTLY CERTIFIED ACCORDING TO AWS. ALL WELDING PROCEDURES SHALL BE PRE-QUALIFIED. WELDERS SHALL FOLLOW WELDING PROCEDURES.
   C. WELDED CONNECTIONS SHALL BE MADE USING LOW HYDROGEN MATCHING FILLER MATERIAL ELECTRODES, UNLESS NOTED OTHERWISE.
   D. WELDS SHALL HAVE THE SLAG REMOVED.
   E. FULL PENETRATION WELDS, SHOP OR FIELD, SHALL HAVE BACKER BARS REMOVED, BE BACK GOUGED, AND REWELDED PER AWS TO HAVE FULL PENETRATION WELD.
   F. ALL DEMAND CRITICAL WELDS SHALL HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FOOT POUNDS AT 0 DEGREES FAHRENHEIT AND 40 FOOT POUNDS AT 70 DEGREES FAHRENHEIT.

## COMPOSITE STEEL BEAMS

1. STUD SPACING AND PLACEMENT:
   A. COMPOSITE STEEL BEAMS ARE INDICATED ON THE FRAMING PLANS WITH THE SUFFIX (##). THE NUMBER INSIDE THE PARENTHESES INDICATES THE NUMBER OF STUDS FOR THE BEAM OR SECTION OF BEAM. BEAMS OR SECTION OF BEAMS SHALL HAVE THE STUDS SPACED UNIFORMLY OVER THE BEAM OR SECTION OF BEAM.
   B. ALL HEADED ANCHOR STUDS SHALL CONFORM TO ASTM A-108. DIMENSIONS SHALL COMPLY WITH AISC. USE 3/4" DIAMETER STUDS. HEADED ANCHOR STUDS SHALL EXTEND 1 1/2" MINIMUM ABOVE THE TOP OF THE STEEL DECK AFTER WELDING. HEADED ANCHOR STUDS SHALL BE APPLIED THROUGH THE METAL DECK TO THE TOP FLANGE OF THE STEEL SECTION OR WELDED DIRECTLY TO THE STEEL SECTION.
   C. THE MINIMUM ON CENTER SPACING OF STUD CONNECTORS SHALL BE 6 DIAMETERS ALONG THE LONGITUDINAL AXIS OF THE SUPPORTING COMPOSITE BEAM AND 4 DIAMETERS TRANSVERSE TO THE LONGITUDINAL AXIS OF THE SUPPORTING COMPOSITE BEAM. THE MAXIMUM SPACING SHALL NOT EXCEED 36" ON CENTER.
2. BEAM CAMBER:
   A. COMPOSITE BEAMS SHALL BE CAMBERED AS INDICATED ON THE PLANS BY C=0.00", WHICH DENOTES THE BEAM CAMBER DIMENSION (UPWARD) IN INCHES.
   B. CAMBER TOLERANCE SHALL BE +1/4", -0".
   C. CONCRETE TOPPING SLABS SHALL BE SCREEDED TO A CONSTANT THICKNESS.

## STEEL JOISTS AND JOIST GIRDERS

1. PRODUCT:
   A. OPEN WEB STEEL JOISTS, JOIST GIRDERS, AND ASSOCIATED HARDWARE SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN CONFORMANCE WITH THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE", AISC SPECIFICATIONS, AND SHALL HAVE SPECIFIC PRODUCT APPROVAL OF THE STEEL JOIST INSTITUTE (SJI).
2. DESIGN:
   A. THE STEEL JOIST/GIRDER MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF ALL STEEL JOISTS, JOIST GIRDERS, AND THEIR ASSOCIATED HARDWARE.
   B. ALL STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER CURRENTLY LICENSED IN THE STATE OF UTAH.
   C. JOISTS AND JOIST GIRDERS SHALL BE DESIGNED TO SUPPORT THE LOADS SHOWN IN THE BASIS OF DESIGN SECTION OF THESE GENERAL NOTES:
   D. JOISTS AND JOIST GIRDERS SHALL BE DESIGNED TO SUPPORT ALL POINT LOADS SPECIFICALLY SHOWN ON THE DRAWINGS AND ALL MECHANICAL UNITS, SPECIAL EQUIPMENT, AND OTHER SUSPENDED LOADS. CONTRACTOR SHALL COORDINATE.
3. FABRICATION AND ERECTION:
   A. PROVIDE BRIDGING PER SJI STANDARDS. ALSO, PROVIDE A HORIZONTAL LINE OF BRIDGING AT THE FIRST BOTTOM CHORD PANEL POINT AT EACH END OF THE JOIST. ADDITIONAL BRIDGING REQUIRED BY THE MANUFACTURER SHALL BE PROVIDED AND SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS. COORDINATE EXACT LOCATION AS REQUIRED.
   B. DO NOT CUT, DRILL, MODIFY, OR OMIT ANY PART OF ANY JOIST OR JOIST GIRDER WITHOUT PRIOR WRITTEN CONSENT AND DIRECTION FROM THE MANUFACTURER.
   C. DO NOT WELD THE BOTTOM CHORD OF THE JOIST GIRDERS TO THE STABILIZER PLATES AT BEARING LOCATIONS UNLESS SPECIFICALLY INSTRUCTED. WHEN WELDING IS SPECIFIED, WELD AFTER ALL DEAD LOAD HAS BEEN APPLIED.
   D. MECHANICAL EQUIPMENT, PIPES, AND OTHER CONCENTRATED LOADS SHALL NOT BE PLACED ON NOR HUNG FROM STEEL JOISTS OR GIRDERS UNLESS THEY ARE POSITIONED WITHIN 4" OF A PANEL POINT OR A TWO (2) ANGLE (L2X2X1/4) BRACE IS INSTALLED BETWEEN THE LOAD AND THE NEAREST OPPOSITE CHORD PANEL POINT.
   E. A CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED BY THE MANUFACTURER TO THE BUILDING OFFICIAL UPON COMPLETION OF FABRICATION PER IBC 2207.5.

## STEEL DECK

1. PRODUCT:
   A. STEEL DECK SHALL BE SIZE AND GAUGE AS SPECIFIED ON PLANS.
   B. STEEL DECK AND ACCESSORIES SHALL BE MANUFACTURED FROM COLD ROLLED STEEL CONFORMING TO ASTM A-653, (GALVANIZED G-60), OR ASTM A-611, GRADE C (PAINTED), AND SHALL CONFORM TO THE STEEL DECK INSTITUTE (SDI) AND AISC STANDARDS
2. ATTACHMENT AND HANDLING:
   A. WELDING PATTERN SHALL BE AS SPECIFIED ON PLAN.
   B. WELD METAL DECK TO SUPPORTING FRAMING MEMBERS WITH E60XX OR E70XX ELECTRODES.
   C. PUDDLE WELDS SHALL HAVE A FUSION AREA OF NOT LESS THAN 3/4" DIAMETER AT THE UPPER SURFACE. WELD METAL SHALL PENETRATE ALL LAYERS OF THE DECK MATERIAL AND SHALL HAVE PROPER FUSION TO THE SUPPORTING MEMBERS.
   D. CRIMP SIDE SEAMS BEFORE WELDING SIDE LAPS. TOP SEAM WELDS SHALL ENGAGE ALL LAYERS OF THE DECK MATERIAL.
   E. END LAPS SHALL OVERLAP AT LEAST 2" AND SHALL OCCUR OVER A SINGLE STEEL SUPPORT. PUDDLE WELDS SHALL OCCUR AT LEAST 1" AWAY FROM EITHER END OF DECK.
   F. PUDDLE WELDS 3/8" X 1.1/2" LONG MAY REPLACE 3/4" DIAMETER PUDDLE WELDS WHEN ACCESS IS LIMITED.
   G. INSTALL DECK WITH A MINIMUM OF 3 SPANS WHEREVER POSSIBLE.
   H. PROVIDE ANGLE AND/OR OTHER SUPPORT AROUND THE PERIMETER OF ALL OPENINGS LARGER THAN 10" IN EITHER DIRECTION THROUGH METAL DECK.
   I. PROVIDE DECK SUPPORT AS REQUIRED AT COLUMNS.
   J. DO NOT BEND OR MAR DECK.
   K. STORE DECKING OFF THE GROUND WITH ONE END ELEVATED. COVER DECK WITH WATERPROOF MATERIAL AND VENTILATE TO AVOID CONDENSATION.

## LIGHT GAGE METAL FRAMING

1. CODES AND STANDARDS:
   A. LIGHT GAGE METAL DESIGN, FABRICATION, AND ERECTION SHALL COMPLY WITH:
   I. THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", WITH "COMMENTARY".
   II. AMERICAN WELDING SOCIETY (AWS-D1.3) "STRUCTURAL WELDING CODE - SHEET STEEL", EXCLUDING ITEMS CONFLICTING WITH AISI REQUIREMENTS.
2. MATERIALS:
   A. LIGHT GAGE METAL SHALL BE MANUFACTURED BY A CURRENT MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
   B. LIGHT GAGE METAL JOISTS, STUDS, TRACKS, STEEL PLATE SHEATHING, AND ACCESSORIES, ETC. SHALL BE GALVANIZED AND SHALL BE GRADE FY=33 KSI UNLESS 50 KSI IS SPECIFICALLY NOTED.
3. CONSTRUCTION:
   A. PROVIDE ALL ACCESSORIES INCLUDING TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, ETC FOR A COMPLETE AND PROPER INSTALLATION.
   B. INSTALLATION SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
   C. FASTENERS SHALL BE SELF DRILLING SCREWS OR WELDING. A MINIMUM OF 16 GAGE MATERIAL IS REQUIRED FOR WELDING. TOUCH UP OF WELDS IS REQUIRED.
   D. LOAD BEARING STUDS SHALL BE PLUMBED, ALIGNED, AND SECURELY ATTACHED TO BOTH FLANGES OF UPPER AND LOWER TRACKS.
   E. NON-LOAD BEARING WALLS SHALL BE BRACED TO STRUCTURE ABOVE AND SHALL BE INSTALLED SO AS TO ALLOW FOR DEFLECTION OF STRUCTURE.
   F. SPLICES IN AXIALLY LOADED MEMBERS ARE NOT ALLOWED.
   G. JOISTS SHALL BE LOCATED DIRECTLY ABOVE BEARING STUDS BELOW OR A LOAD DISTRIBUTION MEMBER SHALL BE PROVIDED AT THE TOP OF THE BEARING WALL.
   H. COMPLETE, UNIFORM, AND LEVEL BEARING SHALL BE PROVIDED FOR ALL BOTTOM TRACKS OF LOAD BEARING WALLS AND FOR ALL LOAD BEARING JOISTS.
   I. WEB STIFFENERS AND JOIST BRIDGING SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS. END BLOCKING SHALL BE PROVIDED AT JOIST ENDS.
   J. PROVIDE DOUBLE JOISTS AT THE SIDES OF ALL FLOOR AND/OR ROOF OPENINGS AND AT ALL PARALLEL PARTITION WALLS ABOVE.
   K. ALL STUDS AND JOISTS SHALL BE SHEATHED ON BOTH FACES OF THE MEMBER. SHEATHING SHALL BE ATTACHED TO EACH MEMBER AT 12" MAXIMUM SPACING.
   L. HEADERS AND TRIMMERS SHALL BE AS SHOWN ON THE DRAWINGS.
   M. ALL LATERAL BRACING SHALL CONFORM TO SECTION D3 OF AISI SPECIFICATION.

## POST-INSTALLEED ANCHORS

1. EPOXY ANCHORS:
   A. THE FOLLOWING EPOXY ADHESIVES SYSTEMS SHALL BE ALLOWED:
   FOR CONCRETE:
   SIMPSON SET-XP
   HILTI HIT-RE 500-SD
   POWERS PE1000
   FOR SOLID GROUTED MASONRY:
   SIMPSON SET
   HILTI HIT-HY 150 MAX
   FOR UNGROUTED MASONRY:
   SIMPSON ET-HP (ESR-3638)
   HILTI HY 10+
   B. ANCHOR RODS SHALL BE ASTM A-307, THREADED AND GALVANIZED, AND THE DIAMETER AS INDICATED ON PLAN.
   C. SCREEN TUBES SHALL BE USED AT UNGROUTED MASONRY UNITS.
   D. ALL ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. AS A MINIMUM BOLT HOLES SHALL BE WIRE BRUSHED AND CLEANED WITH COMPRESSED AIR.
2. MECHANICAL ANCHORS
   A. THE FOLLOWING MECHANICAL ANCHORS SHALL BE ALLOWED:
   SIMPSON TITEN HD
   B. ALL ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. AS A MINIMUM BOLT HOLES SHALL BE WIRE BRUSHED AND CLEANED WITH COMPRESSED AIR.
3. SUBSTITUTES: CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR APPROVAL TO THE ARCHITECT AND STRUCTURAL ENGINEER.

JACOBY ARCHITECTS
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Project Number: 2014-07

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STAMP
PROFESSIONAL STRUCTURAL ENGINEER No. 5590186-2203 LUKAS JACK BALLING STATE OF UTAH
2015

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SHEET DATA
Drawn By: Author
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018
DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents
General Notes

SE0-01

## ABBREVIATIONS

| Abbreviation | Term | Abbreviation | Term |
|---|---|---|---|
| @ | AT | ICC | INTERNATIONAL CODE COUNCIL |
| AB | ANCHOR BOLT | IN | INCH(ES) |
| ABV | ABOVE | INT | INTERIOR |
| ALT | ALTERNATE | K | KIPS - 1,000 POUNDS |
| ARCH | ARCHITECT | KPF | KPS PER LINEAR FOOT |
| BLDG | BUILDING | KSF | KIPS PER SQUARE FOOT |
| BLW | BELOW | KSI | KIPS PER SQUARE INCH |
| BM | BEAM | LBS | POUNDS |
| BOT | BOTTOM | LLH | LONG LEG HORIZONTAL |
| BRG | BEARING | LLV | LONG LEG VERTICAL |
| BTWN | BETWEEN | MAS | MASONRY |
| CJ | CONSTRUCTION/CONTROL JOINT | MAX | MAXIMUM |
| CJP | COMPLETE JOINT PENETRATION | MECH | MECHANICAL |
| CMU | CONCRETE MASONRY UNIT | MFR | MANUFACTURER |
| COL | COLUMN | MIN | MINIMUM |
| CON | CONCRETE | MISC | MISCELLANEOUS |
| CONST | CONSTRUCTION | N.T.S. | NOT TO SCALE |
| CONT | CONTINUOUS | O.C. | ON CENTER |
| CTR | CENTER | O.F. | OUTSIDE FACE |
| D.B. | DECK BEARING | OPNG | OPENING |
| D.B.A. | DEFORMED BAR ANCHORS | OPP | OPPOSITE |
| DET | DETAIL | PCF | POUND PER CUBIC FOOT |
| DIA or Ø | DIAMETER | PL | PLATE |
| DIAG | DIAGONAL | PLF | POUNDS PER LINEAR FOOT |
| DIM | DIMENSION | PP | PARTIAL PENETRATION |
| DWG | DRAWING | PSF | POUNDS PER SQUARE FOOT |
| DWL | DOWEL | PSI | POUNDS PER SQUARE INCH |
| E.F. | EACH FACE | PT | POINT |
| EA | EACH | REINF | REINFORCING |
| EL | ELEVATION | REQ'D | REQUIRED |
| ELEV | ELEVATOR | SIM | SIMILAR |
| EQ | EQUIPMENT | S.O.G. | SLAB ON GRADE |
| EXIST | EXISTING | STD | STANDARD |
| EXT | EXTERIOR | ST | STEEL |
| F.F. | FINISH FLOOR | STR | STRUCTURAL |
| FDTN | FOUNDATION | T & B | TOP AND BOTTOM |
| FL | FLOOR | T.O. | TOP OF |
| FP | FULL PENETRATION | TEMP | TEMPERATURE |
| F.S.E | FINISHED SLAB ELEVATION | T.C. | TOP OF CONCRETE |
| FT | FOOT | T.F. | TOP OF FOOTING |
| FTG | FOOTING | T.S. | TOP OF SLAB |
| GA | GAUGE | T.ST | TOP OF STEEL |
| GALV | GALVANIZED | T.W. | TOP OF WALL |
| GLB | GLU-LAMINATED BEAM | TYP | TYPICAL |
| GR | GRADE | U.N.O. | UNLESS NOTED OTHERWISE |
| G.S.N. | GENERAL STRUCTURAL NOTES | VERT | VERTICAL |
| HORIZ | HORIZONTAL | W.P. | WORK POINT |
| HSA | HEAD STUDDED ANCHORS | W/ | WITH |
| HT | HEIGHT | W.W.F. | WELDED WIRE FABRIC |
| I.F. | INSIDE FACE | YD | YARD |
| IBC | INTERNATIONAL BUILDING CODE | | |
| ICBO | INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS | | |


JACOBY ARCHITECTS

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### STAMP

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### SHEET DATA

Drawn By: Author
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building, Salt Lake City, Utah 84114 • 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

| Revision | Date |
|---|---|

### ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Special Inspection Tables

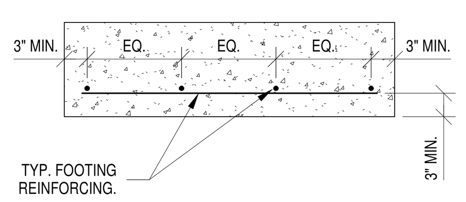
SE0-02

## CONCRETE FOOTING SCHEUDULE

BEARING PRESSURE = 1500PSF

| MARK | WIDTH | LENGTH | THICK. | BOTTOM REINFORCING | TOP REINFORCING | NOTES |
|---|---|---|---|---|---|---|
| F-3 | 3'-0" | 3'-0" | 12" | (3) - #5 E.W. | - | - |
| F-3A | 3'-0" | 3'-0" | 12" | (3) - #5 E.W. | (3) - #5 E.W. | |
| F-3.5 | 3'-6" | 3'-6" | 12" | (3) - #5 E.W. | - | - |
| F-3.5A | 3'-6" | 3'-6" | 12" | (3) - #5 E.W. | (3) - #5 E.W. | |
| F-4 | 4'-0" | 4'-0" | 12" | (4) - #5 E.W. | - | - |
| F-4A | 4'-0" | 4'-0" | 12" | (4) - #5 E.W. | (4) - #5 E.W. | |
| F-4.5 | 4'-6" | 4'-6" | 12" | (4) - #5 E.W. | - | - |
| F-4.5A | 4'-6" | 4'-6" | 12" | (4) - #5 E.W. | (4) - #5 E.W. | |
| F-5 | 5'-0" | 5'-0" | 12" | (5) - #5 E.W. | - | - |
| F-5A | 5'-0" | 5'-0" | 12" | (5) - #5 E.W. | (5) - #5 E.W. | |
| F-5.5 | 5'-6" | 5'-6" | 12" | (5) - #5 E.W. | - | - |
| F-5.5A | 5'-6" | 5'-6" | 12" | (5) - #5 E.W. | (5) - #5 E.W. | |
| F-6 | 6'-0" | 6'-0" | 12" | (6) - #5 E.W. | - | - |
| F-6A | 6'-0" | 6'-0" | 14" | (6) - #5 E.W. | (6) - #5 E.W. | |
| F-6.5 | 6'-6" | 6'-6" | 14" | (6) - #5 E.W. | - | |
| F-6.5A | 6'-6" | 6'-6" | 14" | (6) - #5 E.W. | (6) - #5 E.W. | |
| F-7 | 7'-0" | 7'-0" | 14" | (7) - #5 E.W. | - | - |
| F-7A | 7'-0" | 7'-0" | 14" | (7) - #5 E.W. | (7) - #5 E.W. | |
| F-7.5 | 7'-6" | 7'-6" | 14" | (8) - #5 E.W. | - | |
| F-8 | 8'-0" | 8'-0" | 16" | (9) - #5 E.W. | - | - |
| F-8A | 8'-0" | 8'-0" | 16" | (9) - #5 E.W. | (9) - #5 E.W. | |
| F-8.5 | 8'-6" | 8'-6" | 16" | (10) - #5 E.W. | - | |
| F-9.5 | 9'-6" | 9'-6" | 18" | (12) - #5 E.W. | - | |
| F-9.5A | 9'-6" | 9'-6" | 18" | (12) - #5 E.W. | (12) - #5 E.W. | |
| F-10 | 10'-0" | 10'-0" | 18" | (9) - #6 E.W. | - | |
| F-12 | 12'-0" | 12'-0" | 22" | (13) - #6 E.W. | | |
| F-12A | 12'-0" | 12'-0" | 22" | (13) - #6 E.W. | (13) - #6 E.W. | |
| F-7X13A | 7'-0" | 13'-0" | 14" | #5 @ 12" O.C., E.W. | #5 @ 12" O.C., E.W. | |
| F11X20 | 11'-0" | 20'-0" | 20" | #6 @ 12" O.C., E.W. | #6 @ 12" O.C., E.W. | |
| | | | | | | |
| F-2C | 2'-0" | CONT. | 12" | #5 @ 16"O.C. C.W (2) #5 L.W. | - | - |
| F-3C | 3'-0" | CONT. | 12" | #5 @ 12"O.C. C.W (3) #5 L.W. | - | - |
| F-3.5C | 3'-6" | CONT. | 12" | #5 @ 12" O.C. C.W. (3) #5 L.W. | - | - |
| C.W. = CROSSWISE | | | E.W. = EACH WAY | | L.W. = LENGTHWISE | |

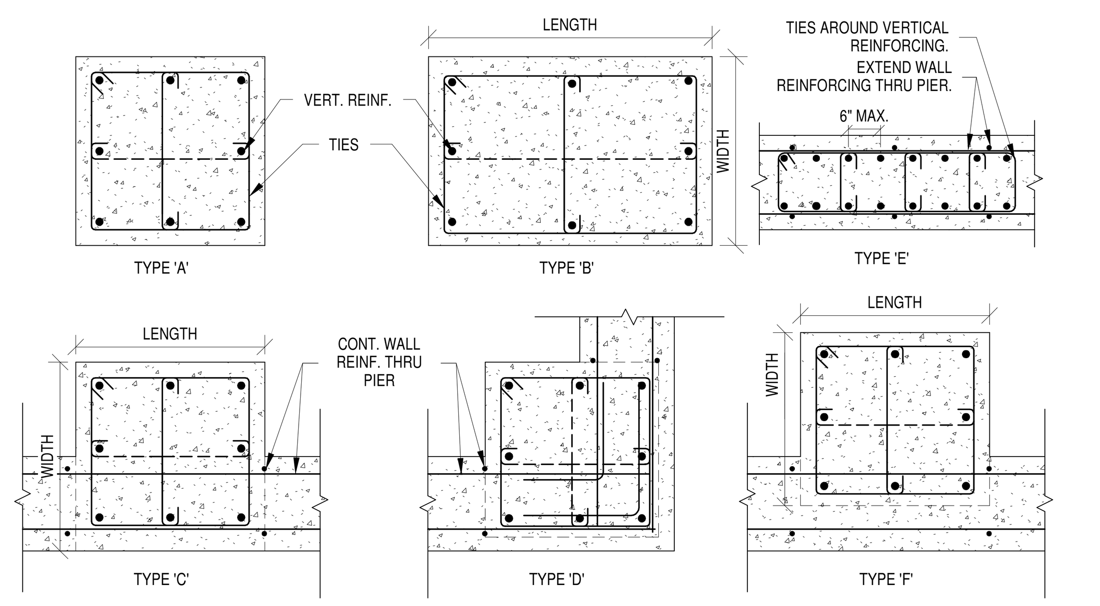
1. ALL FOOTINGS SHALL BEAR ON PROPERLY PREPARED MATERIAL. SEE THE SITE PREPARATION NOTES.
2. ALL FOOTINGS SHALL BE CENTERED BELOW THE WALL AND/OR COLUMN ABOVE, TYP., U.N.O.
3. ALL EXTERIOR FOOTINGS SHALL BEAR BELOW THE EFFECTS OF THE FROST.
4. PROVIDE A 2X4 BEVELED KEY WAY IN ALL CONTINUOUS WALL FOOTINGS.
5. PROVIDE DOWELS WITH STANDARD HOOKS FROM FOOTINGS TO ANY REINFORCED ELEMENT ABOVE WITH SIZE AND SPACING TO MATCH VERTICAL REINFORCING IN ELEMENT ABOVE.
6. PROVIDE MINIMUM COVER FOR ALL REINFORCING PER GENERAL NOTES.
7. ANY INCREASE IN THE SIZE OF FOOTINGS SHOWN MAY REQUIRE ADDITIONAL REINFORCING, COORDINATE WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
8. PENETRATIONS THROUGH FOOTINGS ARE NOT ALLOWED, UNLESS APPROVED BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER IN WRITING PRIOR TO CASTING FOOTING.
9. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.




## CONCRETE PIER SCHEDULE

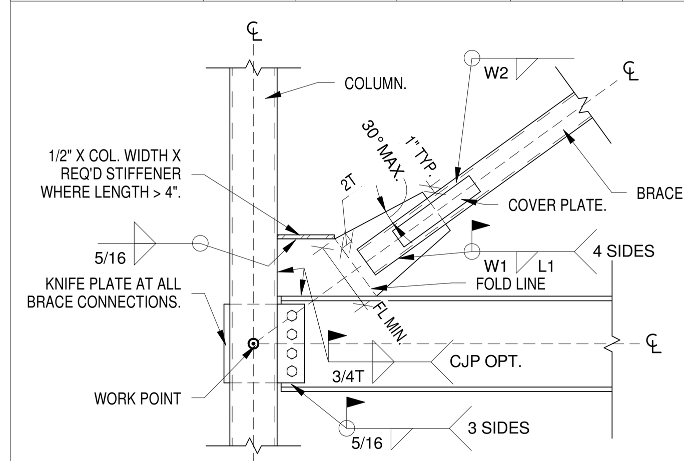
| MARK | WIDTH | LENGTH | REINFORCING | | TYPE | NOTES |
|---|---|---|---|---|---|---|
| | | | VERTICAL | TIES SETS | | |
| CP-1 | 16 | 16 | (8) #6 | (3) #4 @ 12"O.C. | A | |
| CP-2 | 18 | 18 | (8) #6 | (3) #4 @ 12"O.C. | A | |
| CP-3 | 20 | 20 | (8) #7 | (3) #4 @ 12"O.C. | A | |
| CP-4 | 12 | 16 | (6) #6 | (2) #4 @ 12"O.C. | C | |
| CP-5 | 12 | 18 | (6) #6 | (2) #4 @ 12"O.C. | C | |
| CP-6 | 16 | 20 | (6) #7 | (2) #4 @ 12"O.C. | C | |
| CP-7 | 18 | 22 | (8) #7 | (3) #4 @ 12"O.C. | F | |
| CP-8 | 14 | 14 | (4) #7 | (1) #4 @ 12"O.C. | D | |
| CP-9 | 16 | 16 | (8) #6 | (3) #4 @ 12"O.C. | D | |
| CP-10 | 14 | 24 | (6) #7 | (2) #4 @ 4" O.C. | A | |
| CP-11 | 12 | 24 | (6) #7 | (2) #4 @ 4" O.C. | C | |
| CP-12 | 12 | 24 | (6) #7 | (2) #4 @ 4" O.C. | D | |
| CP-13 | 12 | 28 | (6) #7 | (2) #4 @ 6" O.C. | C | |
| CP-14 | 16 | 40 | (16) #7 | (4) #4 @ 6" O.C. | C | |
| CP-15 | 18 | 30 | (10) #7 | (3) #4 @ 10" O.C. | F | |
| CP-16 | 16 | 30 | (10) #7 | (3) #4 @ 4" O.C. | D | |
| CP-17 | 18 | 30 | (14) #7 | (3) #4 @ 4" O.C. | E | TIES AT 12"O.C.BELOW ANCHOR BOLTS |
| CP-18 | 12 | 30 | (12) #7 | (3) #4 @ 3" O.C. | E | TIES AT 12"O.C.BELOW ANCHOR BOLTS |
| CP-19 | 12 | 34 | (16) #7 | (4) #4 @ 3" O.C. | E | TIES AT 12"O.C.BELOW ANCHOR BOLTS |

1. PROVIDE MINIMUM COVER FOR ALL REINFORCING PER THE GENERAL NOTES.
2. PROVIDE DOWELS WITH STANDARD HOOKS AND/OR PROPER LAP TO THE STRUCTURE BELOW WITH SIZE AND SPACING TO MATCH THE VERTICAL REINFORCING IN THE PIER ABOVE, TYP., U.N.O.
3. PROVIDE A MINIMUM OF TWO SETS OF TIES IN THE TOP FIVE INCHES OF EVERY PIER, TYP., U.N.O.
4. PENERTRATIONS THROUGH CONCRETE PIERS ARE NOT ALLOWED.
5. HORIZONTAL WALL REINFORCING TO CONTINUE THROUGH PIER.
6. PIERS TO BE CENTERED BENEATH BASE PLATE, U.N.O.
7. PIERS TO REMAIN INSIDE THE OUTSIDE FACE OF CONCRETE WALLS.
8. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

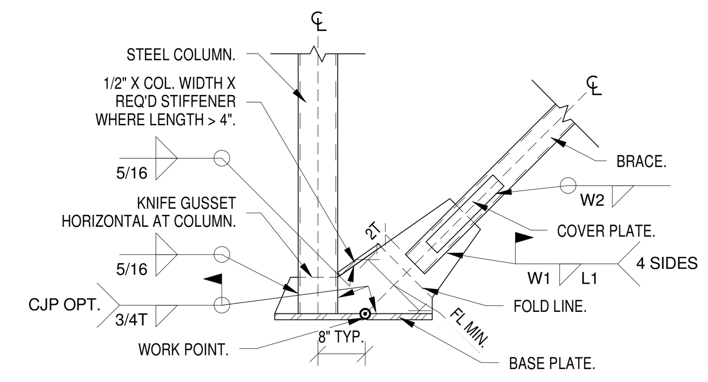



## BRACE CONNECTION SCHEDULE

| BRACE SIZE | BRACE WELD SIZE | BRACE WELD LENGTH | GUSSET PLATE THICKNESS | MINIMUM FOLD LINE LENGTH | COVER PLATE WIDTH | COVER PLATE LENGTH | COVERPLATE THICKNESS | COVER PLATE WELD SIZE | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| SYMBOL | W1 | L1 | T | FL MIN. | WCP | LCP | TCP | W2 | ALL DIMENSIONS IN INCHES |
| HSS2.5X2.5X1/4 | 1/4 | 8 | 1/2 | 9 | 1 1/4 | 7 | 1/4 | 1/4 | |
| HSS3X3X1/4 | 1/4 | 10 | 1/2 | 11 1/2 | 1 1/2 | 7 | 1/4 | 1/4 | |
| HSS3X3X5/16 | 5/16 | 10 | 1/2 | 14 1/2 | 1 | 7 | 5/16 | 1/4 | |
| HSS3.5X3.5X1/4 | 1/4 | 12 | 3/4 | 8 | 2 | 9 | 1/4 | 1/4 | |
| HSS3.5X3.5X5/16 | 5/16 | 11 | 3/4 | 10 1/2 | 2 | 11 | 5/16 | 1/4 | |
| HSS4X4X5/16 | 5/16 | 13 | 3/4 | 12 1/2 | 2 | 11 | 5/16 | 1/4 | |
| HSS4X4X3/8 | 5/16 | 15 | 3/4 | 15 | 2 | 11 | 5/16 | 1/4 | |
| HSS5X5X3/8 | 3/8 | 16 | 1 | 14 | 2 1/2 | 13 | 5/16 | 1/4 | |
| HSS6X6X1/2 | 7/16 | 21 | 1 | 24 | 3 | 15 | 5/16 | 1/4 | |
| HSS3.000X0.188 | 3/16 | 8 | 1/2 | 5 1/2 | 1 1/2 | 7 | 0.188 | 3/16 | COVERPLATE FROM HSS3.000X0.188 |
| HSS3.500x0.203 | 3/16 | 10 | 3/4 | 5 1/2 | 1 3/4 | 8 | 0.216 | 3/16 | COVERPLATE FROM HSS3.500x0.203 |
| HSS4.500X0.237 | 1/4 | 11 | 3/4 | 6 1/2 | 2 1/4 | 9 | 0.237 | 1/4 | COVERPLATE FROM HSS4.500X0.237 |
| HSS5.000X0.250 | 1/4 | 13 | 3/4 | 8 1/2 | 2 1/2 | 10 | 0.250 | 1/4 | COVERPLATE FROM HSS5.000X0.250 |
| HSS5.563X0.258 | 1/4 | 14 | 3/4 | 10 | 2 1/2 | 10 | 0.258 | 1/4 | COVERPLATE FROM HSS5.563X0.258 |
| HSS6.625X0.280 | 1/4 | 18 | 3/4 | 13 1/2 | 3 | 13 | 0.280 | 1/4 | COVERPLATE FROM HSS6.625X0.280 |
| HSS6.625X0.312 | 5/16 | 17 | 3/4 | 15 1/2 | 3 | 14 | 0.312 | 1/4 | COVERPLATE FROM HSS6.625X0.312 |




TYPICAL GUSSET TO BEAM & COLUMN CONNECTION



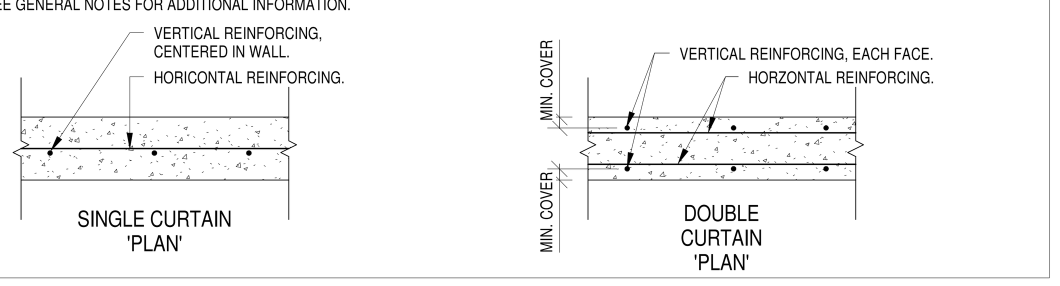

TYPICAL GUSSET PLATE TO BASE PLATE CONNECTION

SCHEDULE NOTES:
1. ALL GUSSET PLATES SHALL BE A572 GRADE 50 STEEL.
2. ALL COVER PLATES SHALL BE A572 GRADE 50 STEEL U.N.O.
3. ALL STIFFENER PLATES SHALL BE A36 STEEL.
4. PROVIDE 1" STYROFOAM AT EACH SIDE OF GUSSET PLATES WHERE CONCRETE OCCURS AROUND GUSSET PLATE, U.N.O.
5. BRACE SHALL BE 2" MIN ABOVE CONCRETE WHERE CONCRETE POURS AROUND GUSSET PLATE, U.N.O.
6. ALL WELDS SHALL BE DEMAND CRITICAL AND SPECIAL INSPECTION SHALL BE REQUIRED.
7. FOLD LINE TO BE PERPENDICULAR TO BRACE CENTER LINE AND MUST NOT TERMINATE IN COLUMN WELD, BEAM WELD, BASEPLATE WELD, OR STIFFENER PLATE WELD.
8. FOLD LINE SHALL BE SHOWN ON SUBMITTED SHOP DRAWINGS.
9. GUSSET PLATE TO MATCH BASE PLATE LENGTH, (SEE BASE PLATE SCHEDULE.)

## CONCRETE WALL SCHEDULE

| MARK | THICKNESS | REINFORCING | | | WALL TYPE | NOTES |
|---|---|---|---|---|---|---|
| | | VERTICAL | HORIZONTAL | TOP AND BOTTOM | | |
| CW-6A | 6" | #4 @ 16" O.C. | #4 @ 16" O.C. | (2) #4 | - | - |
| CW-8A | 8" | #5 @ 14" O.C. | #5 @ 14" O.C. | (2) #5 | - | - |
| CW-8B | 8" | #4 @ 18" O.C. | #4 @ 12" O.C. | (2) #5 | - | - |
| CW-8C | 8" | #5 @ 16" O.C. | #4 @ 12" O.C. | (2) #5 | - | - |
| CW-8D | 8" | #5 @ 14" O.C. | #5 @ 14" O.C. | (2) #6 | - | - |
| CW-12A | 12" | #6 @ 12" O.C., I.F<br>#4 @ 12" O.C., O.F. | #4 @ 12" O.C. E.F. | (2) #6 | - | - |
| CW-12B | 12" | #4 @ 12" O.C., E.F. | #4 @ 12" O.C. E.F. | (2) #6 | - | - |
| CW-12C | 12" | #4 @ 12" O.C., E.F. | #4 @ 12" O.C. E.F. | (3) #7 | - | - |
| CW-16A | 16" | #4 @ 18" O.C., E.F. | #4 @ 12" O.C., E.F. | (2) #6 | - | - |
| CW-18A | 18" | #5 @ 12" O.C., E.F. | #5 @ 12" O.C., E.F. | (2) #6 | - | - |
| I.F. = INSIDE FACE | | O.F. = OUTSIDE FACE | | E.F. = EACH FACE | * PLACE BARS CLOSEST TO FORMS. | |

1. PROVIDE MINIMUM COVER FOR ALL REINFORCING PER THE GENERAL NOTES.
2. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTING WALLS. SEE DETAILD4/SE5-01.
3. PROVIDE DOWELS WITH STANDARD HOOKS AND/OR PROPER LAP TO THE STRUCTURE BELOW WITH SIZE AND SPACING TO MATCH THE VERTICAL REINFORCING IN THE WALL ABOVE, TYP., U.N.O.
4. WHEN SINGLE CURTAIN OF REINFORCING IS SPECIFIED, PLACE THE VERTICAL REINFORCING IN THE CENTER OF THE WALL, TYP., U.N.O.
5. WHEN A DOUBLE CURTAIN OF REINFORCING IS SPECIFIED, PLACE EACH CURTAIN OF STEEL AT THE FACE OF THE WALL WITH MINIMUM COVER AS SPECIFIED IN THE GENERAL NOTES. PLACE THE VERTICAL REINFORCING CLOSEST TO THE FORMS, TYP., U.N.O.
6. PROVIDE VERTICAL JAMB REINFORCING EACH SIDE OF OPENING PER THE GENERAL NOTES, U.N.O. EXTEND FULL HEIGHT OF WALL BETWEEN LEVELS.
7. SPLICE VERTICAL REINFORCING AT FLOOR LEVELS ONLY, TYP., U.N.O.
8. SPLICES IN HORIZONTAL REINFORCING IN ONE CURTAIN SHALL BE STAGGERED FROM SPLICES IN THE OPPOSITE CURTAIN A MINIMUM OF FOUR FEET.
9. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.




## CONCRETE REINFORCING LAP LENGTH SPLICE SCHEDULE

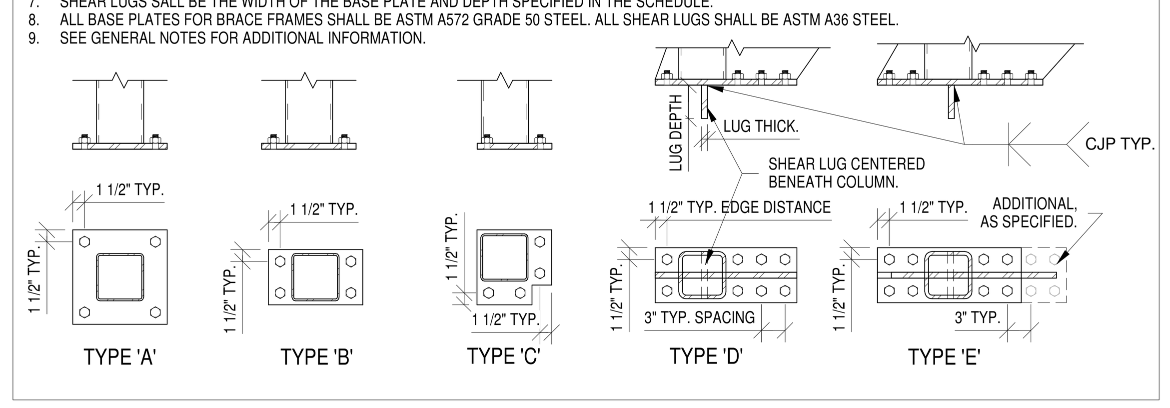
| BAR SIZE | TENSION BARS "Ld" | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | f'c = 3000psi | | | | f'c = 4000psi | | | | f'c = 5000psi | | | | f'c = 6000psi | | | |
| | REGULAR | | TOP | | REGULAR | | TOP | | REGULAR | | TOP | | REGULAR | | TOP | |
| | CLASS | | CLASS | | CLASS | | CLASS | | CLASS | | CLASS | | CLASS | | CLASS | |
| | A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B |
| #3 | 17" | 22" | 22" | 28" | 15" | 19" | 19" | 24" | 13" | 17" | 17" | 22" | 12" | 16" | 16" | 21" |
| #4 | 22" | 29" | 29" | 37" | 19" | 25" | 25" | 32" | 17" | 22" | 22" | 30" | 16" | 20" | 21" | 27" |
| #5 | 28" | 36" | 36" | 47" | 24" | 31" | 31" | 40" | 22" | 28" | 28" | 37" | 20" | 25" | 26" | 34" |
| #6 | 33" | 43" | 43" | 56" | 29" | 37" | 37" | 48" | 26" | 33" | 33" | 45" | 24" | 30" | 32" | 41" |
| #7 | 48" | 63" | 63" | 81" | 42" | 54" | 54" | 70" | 37" | 49" | 49" | 62" | 34" | 45" | 45" | 58" |
| #8 | 55" | 72" | 72" | 93" | 48" | 62" | 62" | 80" | 43" | 56" | 55" | 71" | 39" | 51" | 51" | 66" |
| #9 | 62" | 81" | 81" | 105" | 54" | 70" | 70" | 91" | 48" | 63" | 62" | 80" | 44" | 57" | 57" | 74" |
| #10 | 70" | 91" | 91" | 118" | 61" | 79" | 79" | 102" | 54" | 70" | 70" | 90" | 50" | 65" | 65" | 84" |
| #11 | 78" | 101" | 101" | 131" | 67" | 87" | 87" | 113" | 60" | 78" | 78" | 100" | 55" | 72" | 72" | 93" |

NOTES:
1. THIS SCHEUDLE APPLIES TO SPLICES IN CONCRETE WITH 60ksi GRADE REINFORCING BARS.
2. CLASS "A" SPLICES SHALL BE USED WHEN 50%, OR LESS, OF THE BARS SPLICED WITHIN LAP.
3. CLASS "B" SPLICES SHALL BE USED FOR ALL ELSE, TYPICALLY FOR SHEARWALLS, COLUMNS, BEAMS, AND SUSPENDED SLABS.
4. TOP BARS ARE HORIZONTAL BARS WITH 12", OR MORE, OF FRESH CONCRETE CAST IS BELOW THE BARS.
5. FOR EPOXY COATED BARS, INCREASE LAB LENGTHS AS FOLLOWS:
   TOP BARS: Ld X 1.7
   REGULAR BARS: Ld X 1.5
6. FOR BUNDLED BARS, INCREASE LAP LENGTHS AS FOLLOWS:
   BUNDLED BARS, THREE OR LESS: Ld X 1.2
   BUNDLED BARS, FOUR OR MORE: Ld X 1.33
   INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP
7. LAP SPLICES ARE NOT ALLOWED FOR TIES AND STIRRUPS.

## BASE PLATE SCHEDULE

| MARK | SIZE (INCHES) | | | ANCHOR RODS | | | | EMBED DEPTH | TYPE | SHEAR LUG DEPTH | SHEAR LUG WIDTH | SHEAR LUG THICKNESS | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | L | W | T | NO. | SIZE | GRADE | WASHER SIZE | | | | | | |
| BP-1 | 10 | 10 | 3/4 | 4 | 3/4" | 36 | - | 8" MIN. | A | - | - | - | |
| BP-2 | 12 | 12 | 1 | 4 | 3/4" | 36 | - | 8" MIN. | A | - | - | - | |
| BP-3 | 14 | 14 | 1 1/4 | 4 | 3/4" | 36 | - | 8" MIN. | A | - | - | - | |
| BP-4 | 10 | 6 | 1 | 4 | 3/4" | 36 | - | 8" MIN. | B | - | - | - | |
| BP-5 | 12 | 7 | 1 | 4 | 3/4" | 36 | - | 8" MIN. | B | - | - | - | |
| BP-6 | 14 | 9 | 1 | 4 | 3/4" | 36 | - | 8" MIN. | B | - | - | - | |
| BP-7 | 16 | 11 | 1 | 4 | 3/4" | 36 | - | 8" MIN.. | B | - | - | - | |
| BP-8 | 8 | 8 | 3/4 | 4 | 3/4" | 36 | - | 8" MIN. | C | - | - | - | |
| BP-9 | 10 | 10 | 3/4 | 4 | 3/4" | 36 | - | 8" MIN.. | C | - | - | - | |
| BP-10 | 15 | 7 | 1 | 6 | 3/4" | 55 | 2"X2"X1/2" | 3" BOT. FTG. | D | 3 1/2" | 7 | 1 1/4" | EMBED = PEIR HEIGHT + FTG. THICK. - 3" |
| BP-10A | 15 | 7 | 1 | 6 | 3/4" | 55 | 2"X2"X1/2" | 54' MIN. | D | 3 1/2" | 7 | 1 1/4" | |
| BP-11 | 17 | 7 | 3/4 | 6 | 3/4" | 55 | 2"X2"X1/2" | 3" BOT. FTG. | D | 6" | 7 | 2 1/4" | |
| BP-11A | 17 | 7 | 1 | 6 | 3/4" | 55 | 2"X2"X1/2" | 54' MIN. | D | 6" | 7 | 2 1/4" | |
| BP-12 | 20 | 7 | 1 | 8 | 3/4" | 55 | 2"X2"X1/2" | 3" BOT. FTG. | D | 7 1/2" | 7 | 2 3/4" | |
| BP-12A | 20 | 7 | 1 | 8 | 3/4" | 55 | 2"X2"X1/2" | 54' MIN. | D | 7 1/2" | 7 | 2 3/4" | |
| BP-13 | 24 | 9 | 1 1/2 | 8 | 1" | 55 | 3"X3"X5/8" | 54' MIN. | D | 7 1/2" | 9 | 2 3/4" | EDGE DISTANCE = 2", BOLT SPACING = 4" |
| BP-14 | 22 | 11 | 1 3/4 | 6 | 1" | 55 | 3"X3"X5/8" | 3" BOT. FTG. | D | 3 1/2" | 11 | 1 1/4" | EDGE DISTANCE = 2", BOLT SPACING = 4" |
| BP-15 | 26 | 11 | 1 3/4 | 8 | 1 1/8" | 55 | 3"X3"X5/8" | 54' MIN. | E | 7" | 8 | 2 1/2" | EDGE DISTANCE = 2", BOLT SPACING = 4" |
| BP-16 | 30 | 11 | 1 1/4 | 10 | 1 1/8" | 55 | 3"X3"X5/8" | 54' MIN. | E | 7 1/2" | 8 | 2 3/4" | EDGE DISTANCE = 2", BOLT SPACING = 4" |
| BP-17 | 32 | 9 | 1 1/4 | 12 | 1 1/8" | 55 | 3"X3"X5/8" | 3" BOT. FTG. | D | 6 1/2" | 9 | 2 1/2" | EDGE DISTANCE = 2", BOLT SPACING = 4" |
| BP-18 | 12 | 7 | 1 | 4 | 3/4" | 36 | | 18" MIN. | B | - | - | - | |
| BP-19 | 12 | 6 | 3/4 | 4 | 3/4" | 36 | | 8" MIN. | B | - | - | - | |
| BP-20 | 12 | 12 | 3/4 | 4 | 3/4" | 36 | | 8" MIN. | A | - | - | - | SEE DETAIL C4/SE5-02 |

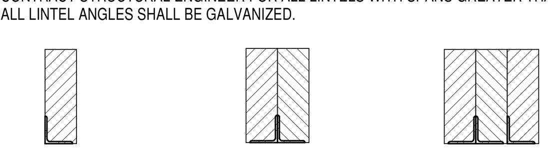
1. ALL BASE PLATES SHALL BEAR ON 1-1/2" ± NON-SHRINK GROUT AND SHALL HAVE LEVELING NUTS, TYP., U.N.O.
2. ALL BASE PLATES SHALL BE WELDED TO THE COLUMN WITH A 5/16" FILLET WELD ALL AROUND, TYP., U.N.O.
3. ALL ANCHOR RODS SHALL BE HEADED ANCHOR RODS, TYP., U.N.O. ALL ANCHOR RODS SHALL HAVE HARDENED WASHERS AND NUTS.
4. ALL ANCHOR RODS SHALL BE SET IN PLACE WITH A TEMPLATE. THEY SHALL BE PLACED PLUMB AND AT THE CORRECT DEPTH AND EXTENSION.
5. ALL ANCHOR ROD HOLES IN BASE PLATES SHALL BE OVERSIZED PER AISC.
6. ALL ANCHOR RODS SHALL BE ASTM F1554, SEE SCHEDULE FOR GRADE STRENGTH.
7. SHEAR LUGS SALL BE THE WIDTH OF THE BASE PLATE AND DEPTH SPECIFIED IN THE SCHEDULE.
8. ALL BASE PLATES FOR BRACE FRAMES SHALL BE ASTM A572 GRADE 50 STEEL. ALL SHEAR LUGS SHALL BE ASTM A36 STEEL.
9. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.




## STEEL ANGLE LINTEL SCHEDULE

| MARK | CLEAR OPENING | ANGLE SIZE |
|---|---|---|
| L-1 | UP TO 5'-0" | 3-1/2"X3-1/2"X1/4" |
| L-2 | 5'-0" TO 7'-0" | 3-1/2"X3-1/2"X5/16" |
| L-3 | 7'-0" TO 9'-0" | 4"X3-1/2"X5/16" |
| L-4 | 9'-0" TO 10'-0" | 5"X3-1/2"X5/16" |
| L-5 | 10'-0" TO 12'-0" | 6"X4"X3/8" |

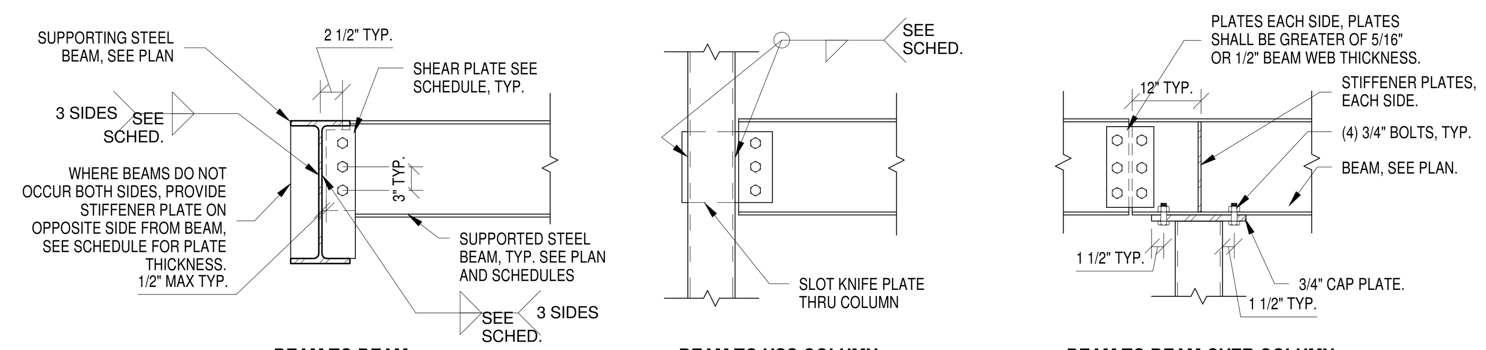
1. PROVIDE 1" OF BEARING FOR EACH FOOT OF OPENING, 6" MINIMUM, EACH SIDE.
2. CONTRACT STRUCTURAL ENGINEER FOR ALL LINTELS WITH SPANS GREATER THAN 12 FEET.
3. ALL LINTEL ANGLES SHALL BE GALVANIZED.



## STEEL TO STEEL CONNECTION SCHEDULE

| BEAM SIZE | SHEAR BOLTS | WELD SIZE | SHEAR/STIFFENER PLATE THICKNESS |
|---|---|---|---|
| W8, W10 | (2) 3/4" Ø | 1/4" | 3/8" |
| W12, W14 | (3) 3/4" Ø | 5/16" | 1/2" |
| W16, W18 | (4) 3/4" Ø | 5/16" | 1/2" |
| W21 | (6) 3/4" Ø | 5/16" | 1/2" |
| W24 | (6) 3/4" Ø | 5/16" | 1/2" |
| W27 | (7) 3/4" Ø | 5/16" | 1/2" |
| W30 | (8) 3/4" Ø | 5/16" | 1/2" |
| W33 | (9) 3/4" Ø | 5/16" | 1/2" |
| W36 | (10) 3/4" Ø | 5/16" | 1/2" |

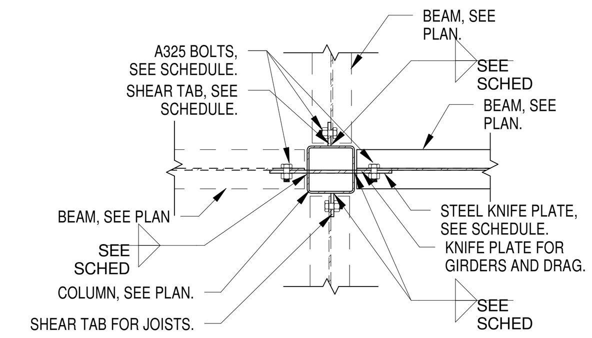
1. ALL BOLTS SHALL BE A325-N.
2. SEE FRAMING PLANS FOR BEAM AND/OR COLUMN SIZES.
3. BEAM MAY OCCUR HIGHER FOR DECK BEARING, SEE PLAN AND DETAILS.
4. COPE BEAM FLANGE AS REQ'D FOR CONNECTION.
5. ——● INDICATES DRAG CONNECTION, WELD 3 SIDES OF PLATE TO BEAM WEB WITH 5/16" DEMAND CRITICAL WELD AND USE 1/2" PLATE.




BEAM TO BEAM

BEAM TO HSS COLUMN

BEAM TO BEAM OVER COLUMN

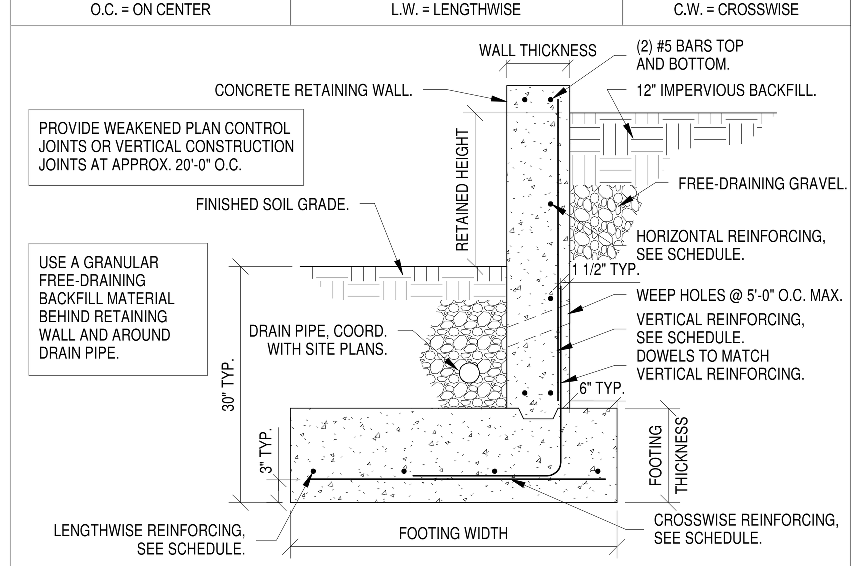



## RETAINING WALL SCHEDULE

| RETAINED HEIGHT | WALL THICKNESS | FOOTING WIDTH | FOOTING THICKNESS | VERT. REINFOCING | HORIZ. REINF. | FOOTING L.W. REINF. | FOOTING C.W. REINF. |
|---|---|---|---|---|---|---|---|
| UP TO 2'-0" | 8" | 2'-0" | 12" | #4 @ 18" O.C. | #4 @ 16" O.C. | (3) #5 | #4 @ 18" O.C. |
| UP TO 4'-0" | 8" | 3'-0" | 12" | #4 @ 18" O.C. | #4 @ 16" O.C. | (3) #5 | #4 @ 18" O.C. |
| UP TO 6'-0" | 8" | 4'-6" | 12" | #4 @ 12" O.C. | #4 @ 16" O.C. | (5) #5 | #4 @ 12" O.C. |
| O.C. = ON CENTER | | | L.W. = LENGTHWISE | | | C.W. = CROSSWISE | |

PROVIDE WEAKENED PLAN CONTROL JOINTS OR VERTICAL CONSTRUCTION JOINTS AT APPROX. 20'-0" O.C.

USE A GRANULAR FREE-DRAINING BACKFILL MATERIAL BEHIND RETAINING WALL AND AROUND DRAIN PIPE.





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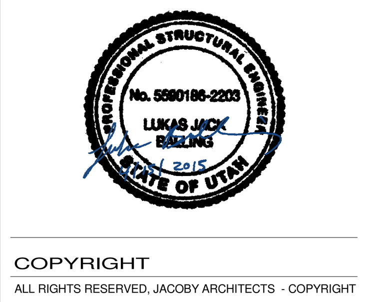



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PROJECT

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

DFCM # 14190230

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|---|---|

ISSUE/PHASE

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|---|---|
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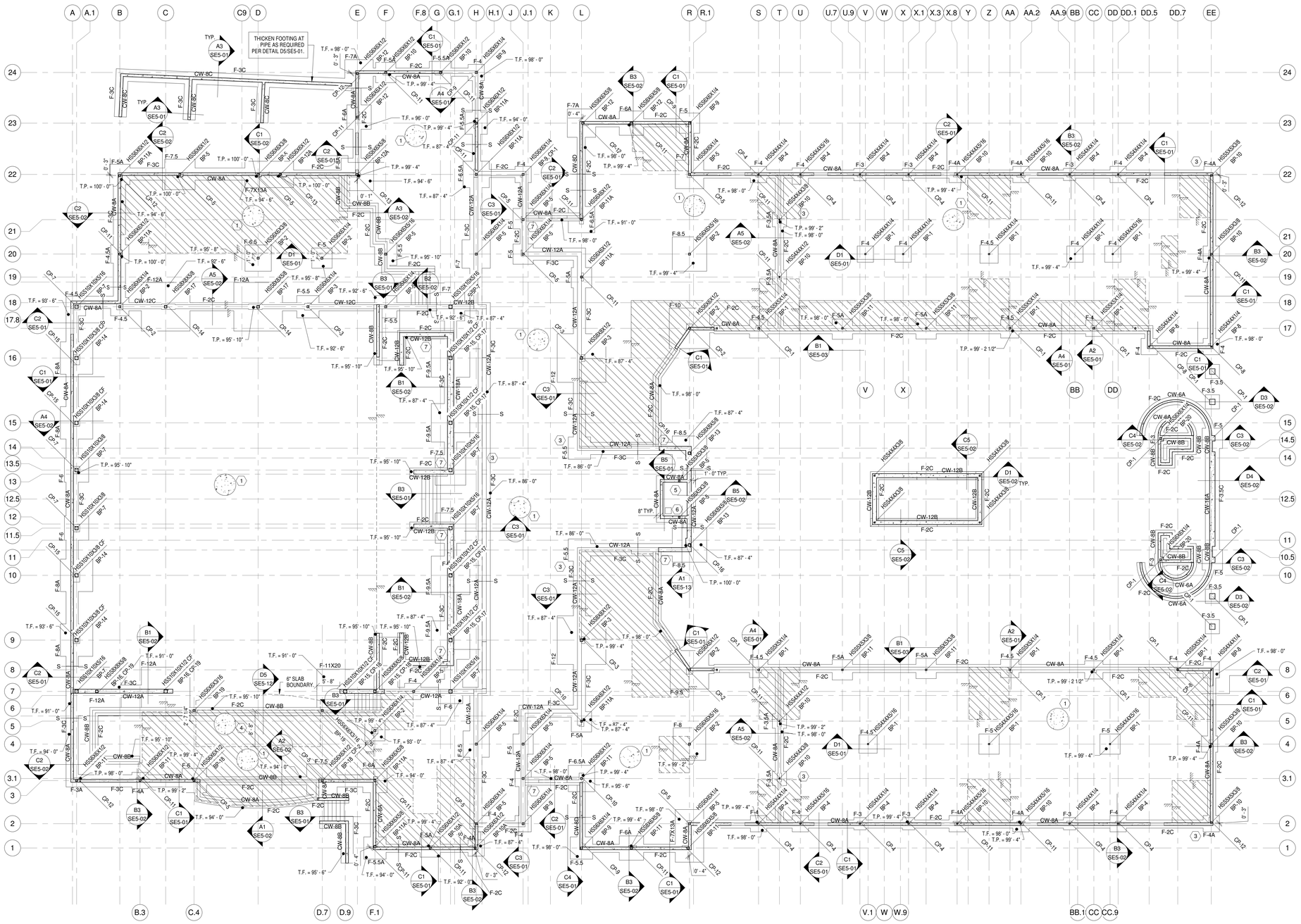
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Schedules

SE0-03




1 FOOTING AND FOUNDATION
3/32" = 1'-0"

# FOUNDATION PLAN NOTES

INDICATES NOTES ARE KEYED ON PLAN

1. 4" CONCRETE SLAB ON 4" FREE DRAINING GRAVEL. REINFOCE WITH #3 BARS AT 18" O.C. USE PRECAST CHAIRS SO THAT BARS ARE 1" BELOW TOP OF SLAB.
2. SEE ARCHITECTURAL DRAWINGS FOR FINISHED SLAB ELEVATIONS, SLOPES, AND RECESSES IN FLOOR SLABS.
3. FOR BURIED UTILITY LINES LOCATED 24" OR LESS BELOW BOTTOM OF FOOTINGS, STEP FOOTINGS PER DETAIL D5/SE5-01. SEE SOILS REPORT FOR STRUCTURAL FILL AROUND BURIED UTILITY LINES 24" OR GREATER BELOW FOOTINGS.
4. 6" CONCRETE SLAB ON 4" FREE DRAINING GRAVEL. REINFOCE PER DETAIL D5/SE5-12.
5. 14" THICK CONCRETE SLAB AT ELEVATOR PIT. REINFORCE WITH #5@12" O.C. TOP AND BOTTOM.
6. 18"X18"X12" DEEP SUMP, SEE DETAIL A5/SE5-01 FOR REINFORCING.
7. DRILL AND EPOXY HORIZONTAL FOOTING AND WALL REINFORCING INTO SIDE OF WALL, 6" MINIMUM EMBED.

# LEGEND

| | |
|---|---|
| F-X.X | INDICATES CONCRETE SPOT FOOTING, SEE SCHEDULES FOR SIZE AND REINF. |
| F-XC | INDICATES CONTINUOUS CONCRETE FOOTING, SEE SCHEDULES FOR SIZE AND REINF. |
| | INDICATES CONCRETE WALL SEE SCHEDULES FOR SIZE AND REINF. |
| | INDICATES RECESS IN CONCRETE FOUNDATION WALL |
| | INDICATES MASONRY WALL. |
| | INDICATES RECESSED SLAB, SEE ARCH. |
| | INDICATES CONCRETE SLAB ON GRADE |
| HSSXX | INDICATES STEEL COLUMN |
| HSSXX CF | INDICATES CONCRETE FILLED STEEL COLUMN. FILL WITH 4000psi SELF CONSOLIDATING CONCRETE. FIELD INSTALL CAP PLATES. |
| | CHANGE IN ELEVATION OR RECESSED SLAB |
| S——S | INDICATES STEP IN WALL |
| BP-XX | INDICATES BASE PLATE, SEE SCHEDULE |
| CP-XX | INDICATES CONCRETE PIER, SEE SCHEDULE |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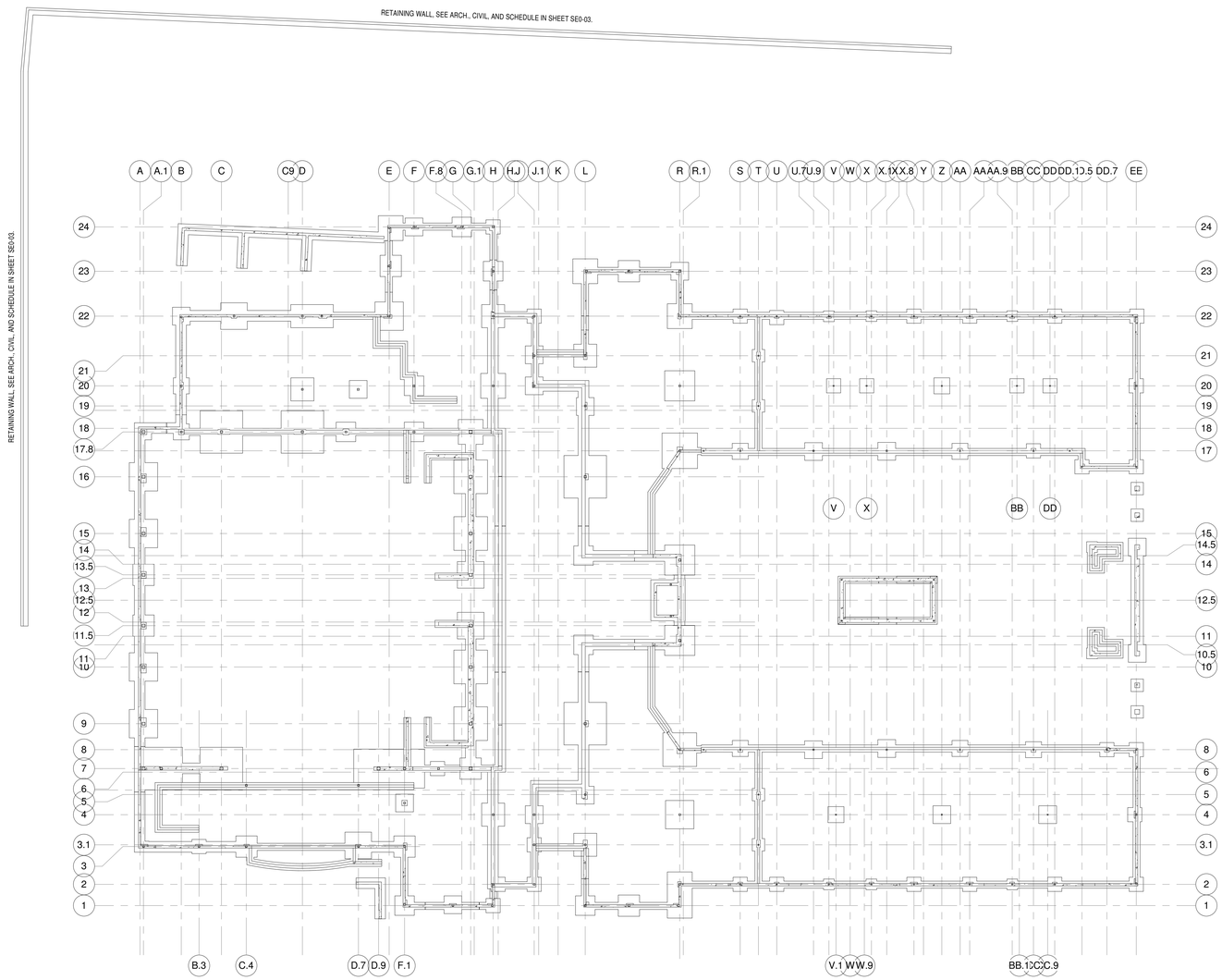
| 2015 05 21 | Bidding Documents |

Construction Documents

Footing and Foundation Plan

SE1-00




1 SITE RETAINING WALL PLAN
1/16" = 1'-0"

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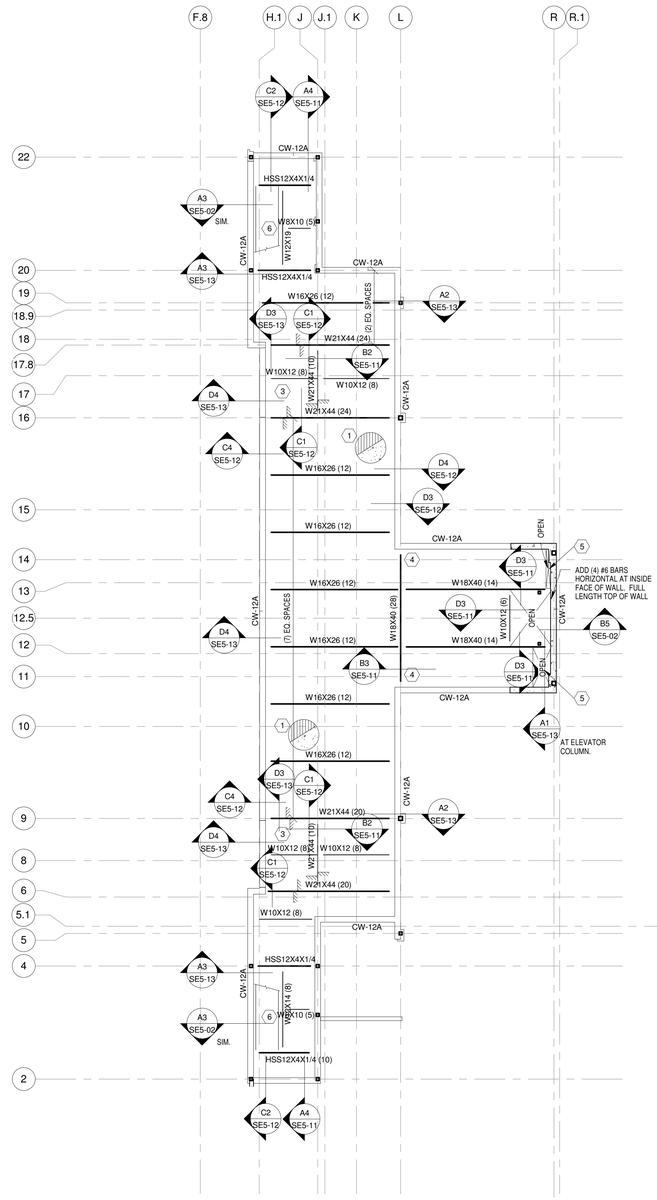
Construction Documents

Site Retaining Wall Plan

SE1-01




1 LEVEL 1 FRAMING
3/32" = 1'-0"

# LEVEL 1 FRAMING PLAN NOTES

⬡ INDICATES NOTE IS KEYED ON PLAN.

1. FLOOR SLAB SHALL BE 5" TOTAL THICKNESS NORMAL WEIGHT CONCRETE SLAB ON 2" X 18 GAUGE TYPE "WZ" COMPOSITE GALVANIZED FLOOR DECK WITH INTERLOCKING SIDE LAPS. THREE SPAN MINIMUM. REINFORCE WITH #3 BARS AT 18"O.C. EACH WAY. CHAIR BARS TO BE 1" FROM TOP OF SLAB. ATTACH DECK TO PERPENDICULAR SUPPORTS WITH (4) 3/4" DIAMETER PUDDLE WELDS PER 36" WIDE SHEET. ATTACH TO PARALLEL SUPPORTS WITH WITH 3/4" DIAMETER PUDDLE WELDS AT 12"O.C. ATTACH SIDE LAPS WITH VERCO 'VCS2',OR EQUIVELANT, CONNECTION AT 36"O.C. OR BUTTON PUNCHES AT 16"O.C.
2. THE NUMBER IN PARENTHESIS FOLLOWING THE WIDE FLANGE BEAM SIZE INDICATED THE NUMBER OF 3/4" X 3 1/2" LONG HEADED ANCHOR STUDS UNIFORMLY SPACED ALONG THE LENGTH OF THE BEAM (OR BEAM SEGMENT WHEN MORE THAN ONE NUMBER APPEARS ON A BEAM LENGTH).
3. SEE ARCHITECTURAL DRAWINGS FOR SLOPES, RECESSES IN FLOOR SLAB, AND FINISHED SLAB ELEVATIONS.
4. USE 1"W"X1/2" BREARING PLATE WITH (2) 3/4"X8" H.A.S. AT THIS BEAM. SEE DETAIL C2/SE5-13 FOR SIMILAR FRAMING DETAIL.
5. FOR OPENING IN CONCRETE ON METAL DECK SEE DETAIL D1/SE5-11.
6. FOR STAIR FRAMING SEE SHEET SE4-01.

# LEGEND

- BRACE CONNECTION
- CHANGE IN ELEVATION RECESSED/DEPRESSED SLAB
- CONCRETE ON STEEL DECK, W/ SPAN DIRECTION INDICATED
- OPEN — OPENING IN DECK
- HSS X X — STEEL COLUMN, WIDE FLANGE
- CONCRETE WALL, SEE SCHEDULE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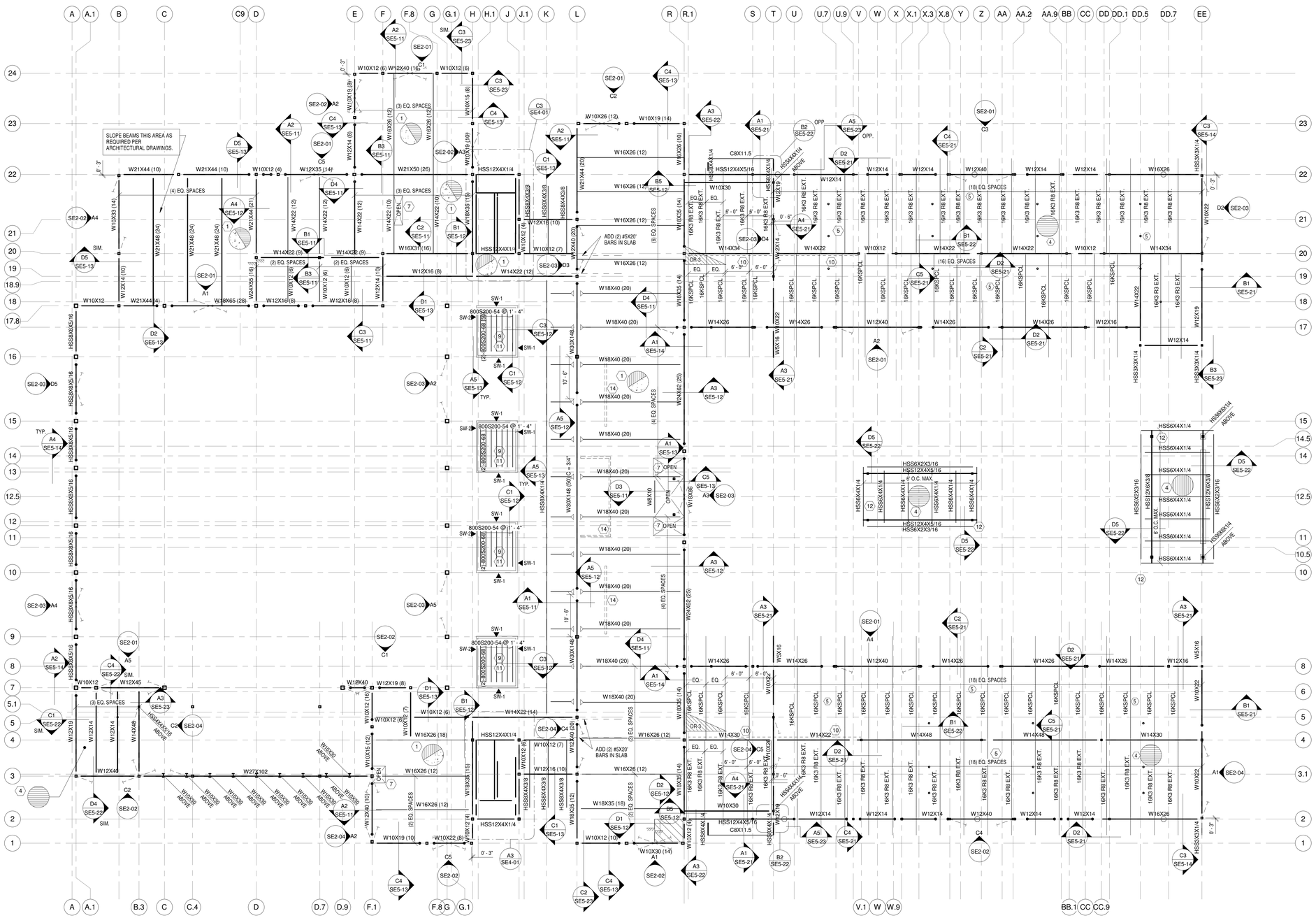
Construction Documents

Level 1 Framing Plan

SE1-10




1 LEVEL 2 / CLASSROOM ROOF FRAMING
3/32" = 1'-0"

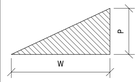
## STEEL STUD SHEAR WALL SCHEDULE

| MARK | STUDS | SHEATHING | SCREW SPACING | | |
|---|---|---|---|---|---|
| | | | SIZE | PANEL EDGES | IN FIELD |
| SW-1 | 600S162-33 | 7/16" OSB | #8 | 6" | 12" |
| SW-2 | 362S162-33 | 7/16" OSB | #8 | 6" | 12" |

**NOTES:**
1. ALIGN WALL STUDS BELOW JOIST AT BEARING.

## SNOW DRIFT SCHEDULE

| MARK | MAX PRESSURE (P) | APPLIED WIDTH (W) | NOTES |
|---|---|---|---|
| DR-1 | 45 | 9' - 0" | |
| DR-2 | 60 | 11' - 8" | |
| DR-3 | 64 | 13' - 0" | |
| DR-4 | 35 | 7' - 0" | |




**NOTES:**
1. DRIFT LOAD IS IN ADDITION TO SNOW LOADS SPECIFIED IN GENERAL NOTES.
2. ALL DRIFT LOAD TO RUN FULL LENGTH ALONG A WALL LINE, U.N.O.
3. PERPENDICULAR DRIFT LOADS DO NOT NEED TO BE APPLIED SIMULTANEOUSLY.

# LEVEL 2 FRAMING PLAN NOTES

INDICATES NOTE IS KEYED ON PLAN.

1. FLOOR SLAB SHALL BE 5.1/4" TOTAL THICKNESS LIGHTWEIGHT CONCRETE SLAB ON 2" X 18 GAUGE TYPE "W2" COMPOSITE GALVANIZED FLOOR DECK WITH INTERLOCKING SIDE LAPS. THREE SPAN. MINIMUM. REINFORCE WITH #3 BARS AT 18"O.C. EACH WAY. CHAIR BARS TO BE 1" FROM TOP OF SLAB. ATTACH DECK TO PERPENDICULAR SUPPORTS WITH (4) 3/4" DIAMETER PUDDLE WELDS PER 36" WIDE SHEET. ATTACH TO PARALLEL SUPPORTS WITH 3/4" DIAMETER PUDDLE WELDS AT 12"O.C. ATTACH SIDE LAPS WITH VERCO "VCS2" OR EQUIVALENT. CONNECTION AT 36"O.C. OR BUTTON PUNCHES AT 16"O.C.
2. THE NUMBER IN PARENTHESIS FOLLOWING THE WIDE FLANGE BEAM SIZE INDICATED THE NUMBER OF 3/4" X 3 1/2" LONG HEADED ANCHOR STUDS UNIFORMLY SPACED ALONG THE LENGTH OF THE BEAM (OR BEAM SEGMENT WHEN MORE THAN ONE NUMBER APPEARS ON A BEAM LENGTH).
3. SEE ARCHITECTURAL DRAWINGS FOR SLOPES AND RECESSES IN FLOOR SLAB.
4. ROOF DECK SHALL BE 1 1/2" X 20 GAUGE TYPE "B" GALVANIZED ROOF DECK WITH INTERLOCKING SIDE LAPS. THREE SPAN MINIMUM. ATTACH TO PERPENDICULAR SUPPORTS WITH (7) 3/4" DIAMETER PUDDLE WELDS PER 36" WIDE SHEET. ATTACH TO PARALLEL SUPPORTS WITH 3/4" DIAMETER PUDDLE WELDS AT 12"O.C. ATTACH SIDE LAPS WITH 1 1/2" LONG TOP SEAM WELDS AT 12"O.C. MINIMUM SHEAR STRENGTH REQUIRED = 1200 PLF. VERCO PUNCHLOK DECKING (PLB) DECK WITH VERCO SIDE LAP CONNECTIONS (VSC2) IS ALSO ACCEPTABLE PROVIDED THE SHEAR STRENGTH IS EQUAL TO OR GREATER THAN SPECIFIED ABOVE.
5. SEE SECTION 6/SE2-05 FOR ROOF JOIST LOADING AND BEARING DEPTHS. ALL ROOF JOISTS SHALL HAVE BRIDGING PER SJI STANDARDS. ROOF JOISTS ABOVE CLASS ROOMS SHALL BE DESIGNED FOR A 600 LB POINT LOAD AND 150 LB/FOOT MOMENT AT ANY POINT ALONG THE BOTTOM CHORD OF JOIST. FOR POINT LOADS ALONG TOP AND BOTTOM CHORDS OF JOIST SEE DETAIL D3/SE5-21.
6. FOR OPENING IN ROOF AND FLOOR DECKS SEE DETAILS D1/SE5-11 AND D1/SE5-21.
7. ALL PERIMETER BEAMS RUNNING PARALLEL TO JOISTS SHALL HAVE BOTTOM FLANGES BRACES AT 6'-0" O.C. MAX. BRACE PER DETAIL D5/SE5-11. U.N.O.
8. CLUB HOUSE ROOF SHEATHING SHALL BE 23/32" A.P.A. RATED WOOD STRUCTURAL PANELS, EXPOSURE 1, WITH MINIMUM SPAN INDEX OF 40/20. APPLY WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. TWO SPAN MINIMUM. ATTACH TO SUPPORTS WITH #8 TEK SCREWS: 6"O.C. AT ALL PANEL EDGES, AND 12"O.C. IN THE FIELD.
9. PROVIDE 10 GAUGE BENT PLATE BLOCKING BETWEEN JOISTS. DASHED LINE INDICATES EXTEND OF BLOCKING. SEE DETAIL C3/SE5-21.
10. FOR UNISTRUT CONNECTION TO FRAMING, SEE DETAIL A1/SE5-23.
11. ALL COURTYARD STRUCTURAL STEEL SHALL BE GALVANIZED.
12. FOR LINTELS AT OPENINGS IN BRICK VENEER SEE SCHEDULE ON SHEET SE0-03.
13. FOR PONY WALL ATTACHMENT TO FLOOR SLAB SEE DETAIL A4/SE5-13.

# LEGEND

- INDICATES BRACE CONNECTION
- INDICATES BEAM DRAG CONNECTION, SEE STEEL TO STEEL SCHEDULE.
- INDICATES CANTELEVER MOMENT CONNECTION
- SW-? — INDICATES STEEL STUD SHEAR WALL, SEE SCHEDULE.
- STEEL ROOF DECK, W/ SPAN DIRECTION INDICATED
- 1 Ref / SE1-?? — BRACE ELEVATION VIEW
- CHANGE IN ELEVATION RECESSED/DEPRESSED SLAB
- CONCRETE ON STEEL DECK, W/ SPAN DIRECTION INDICATED
- OPEN — OPENING IN DECK
- CONCRETE WALL, SEE SCHEDULE
- CONCRETE PIER, SEE SCHEDULE
- SNOW DRIFT LOADS, APPLY TO JOISTS. SEE DRIFT SCHEDULE.
- INDICATES OVERHEAD SUPPORT POINT, SEE DETAIL B1/SE5-22. SEE ARCH. FOR LOCATION
- INDICATES HOLE IN WEB OF BEAM, SEE DETAIL C1/SE5-21
- HSSX — INDICATES STEEL COLUMN
- HSSX CF — INDICATES CONCRETE FILLED STEEL COLUMN, FILL WITH 4000psi SELF CONSOLIDATING CONCRETE


JACOBY ARCHITECTS
425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


## CONSULTANTS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Civil: Meridian Engineering, Inc. - 801.569.1315
Structural: TBSE Inc. - 801.298.8795
Mechanical: WHW Engineering - 801.466.4021
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Landscape: Landmark Design - 801.474.3300
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## PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

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## ADDENDA

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## ISSUE/PHASE

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| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
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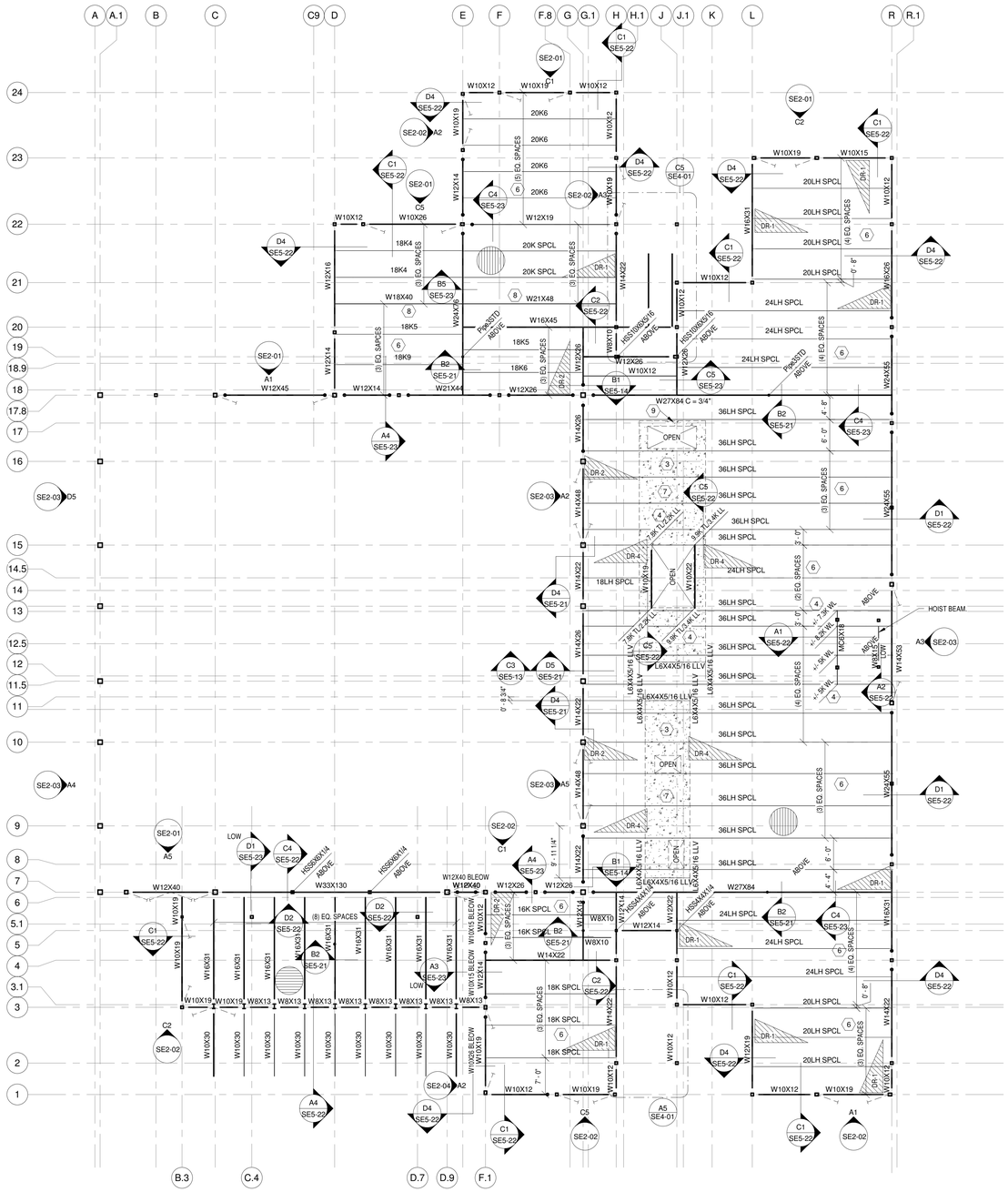
Construction Documents

Level 2 / Classroom Roof Framing Plan

SE1-20



1 LOBBY / STAGE ROOF FRAMING
3/32" = 1'-0"

## SNOW DRIFT SCHEDULE

| MARK | MAX PRESSURE (P) | APPLIED WIDTH (W) | NOTES |
|---|---|---|---|
| DR-1 | 45 | 9' - 0" | |
| DR-2 | 60 | 11' - 8" | |
| DR-3 | 64 | 13' - 0" | |
| DR-4 | 35 | 7' - 0" | |

**NOTES:**
1. DRIFT LOAD IS IN ADDITION TO SNOW LOADS SPECIFIED IN GENERAL NOTES.
2. ALL DRIFT LOAD TO RUN FULL LENGTH ALONG A WALL LINE, U.N.O.
3. PERPENDICULAR DRIFT LOADS DO NOT NEED TO BE APPLIED SIMULTANEOUSLY.

# ROOF FRAMING PLAN NOTES

⬡ INDICATES NOTE IS KEYED ON PLAN.

1. ROOF DECK SHALL BE 1 1/2" X 20 GAUGE TYPE "B" GALVANIZED ROOF DECK WITH INTERLOCKING SIDE LAPS. THREE SPAN MINIMUM. ATTACH TO PERPENDICULAR SUPPORTS WITH (7) 3/4" DIAMETER PUDDLE WELDS PER 36" WIDE SHEET. ATTACH TO PARALLEL SUPPORTS WITH 3/4" DIAMETER PUDDLE WELDS AT 12"O.C. ATTACH SIDE LAPS WITH 1 1/2" LONG TOP SEAM WELDS AT 12"O.C. MINIMUM SHEAR STRENGTH REQUIRED = 1200 PLF. VERCO PUNCHLOK DECKING (PLB) DECK WITH VERCO SIDE LAP CONNECTIONS (VSC2) IS ALSO ACCEPTABLE PROVIDED THE SHEAR STRENGTH IS EQUAL TO OR GREATER THAN SPECIFIED ABOVE.
2. SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
3. MECHANICAL CONCRETE SLAB SHALL BE 7 1/2" MINIMUM TOTAL THICKNESS LIGHTWEIGHT CONCRETE SLAB ON 1 1/2" X 20 GAUGE TYPE "B" COMPOSITE GALVANIZED FLOOR DECK WITH INTERLOCKING SIDE LAPS. THREE SPAN MINIMUM. REINFORCE WITH #4 BARS AT 18"O.C. EACH WAY. CHAIR BARS TO BE AT CENTER OF SLAB. ATTACH DECK TO PERPENDICULAR SUPPORTS WITH (7) 3/4" DIAMETER PUDDLE WELDS PER 36" WIDE SHEET. ATTACH TO PARALLEL SUPPORTS WITH 3/4" DIAMETER PUDDLE WELDS AT 12"O.C. ATTACH SIDE LAPS PER ROOF DECK NOTE. SLAB MAY BE THICKENED AS REQUIRED TO MAINTAIN LEVEL SURFACE. PLACE 5/8"X3 1/2" H.A.S AT 12"O.C. AT JOISTS BELOW SLAB.
4. POINT LOADS TO BE APPLIED TO JOISTS AT LOCATIONS SHOWN. LOADS SHALL BE APPLIED IN ADDITION TO LOADS SPECIFIED IN GENERAL NOTES.
5. NOT USED
6. ALL 'K' SERIES JOIST SHALL HAVE 2.1/2" BEARING ENDS. ALL 'LH' SERIES JOISTS SHALL HAVE 5" BEARING ENDS. PROVIDE BRIDGEING PER SJI STANDARDS. SEE SHEET SE2-05 FOR JOIST LOADING DIAGRAMS. APPLY ADDITIONAL LOADS SPECIFIED ON PLAN AND PER GENERAL NOTES.
7. AN ADDITIONAL DEAD LOAD OF 160PSF SHALL BE APPLIED AT MECHANICAL PAD AREAS (SEE PLAN) TO ALL JOIST THAT SUPPORT THE PAD AND MECHANICAL UNITS.
8. BEAMS SHALL BE PLACED ABOVE FOLDING PARTITION DOOR. DOOR TRACK ATTACHMENT TO BEAMS SHALL BE DESIGNED BY DOOR SUPPLIER.
9. EXTEND SLAB TO JOIST, THIS END.

# LEGEND

- INDICATES BRACE CONNECTION.
- SNOW DRIFT LOADS. APPLY TO JOISTS. SEE DRIFT SCHEDULE.
- BEAM DRAG CONNECTION, SEE STEEL TO STEEL SCHEDULE
- BEAM MOMENT FRAME CONNECTION, SEE DETAIL A5/SE5-21
- STEEL ROOF DECK, W/ SPAN DIRECTION INDICATED
- OPEN — OPENING IN DECK
- INDICATES CONCRETE MECHANICAL PAD.
- INDICATES HOLE IN WEB OF BEAM, SEE DETAIL C1/SE5-21
- HSS3X4 — INDICATES STEEL COLUMN
- HSS3X CF — INDICATES CONCRETE FILLED STEEL COLUMN. FILL WITH 4000psi SELF CONSOLIDATING CONCRETE
- 5k — INDICATES POINT LOAD FROM BASKETBALL HOOP


JACOBY ARCHITECTS
425 South 400 East
Salt Lake City
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## CONSULTANTS

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**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
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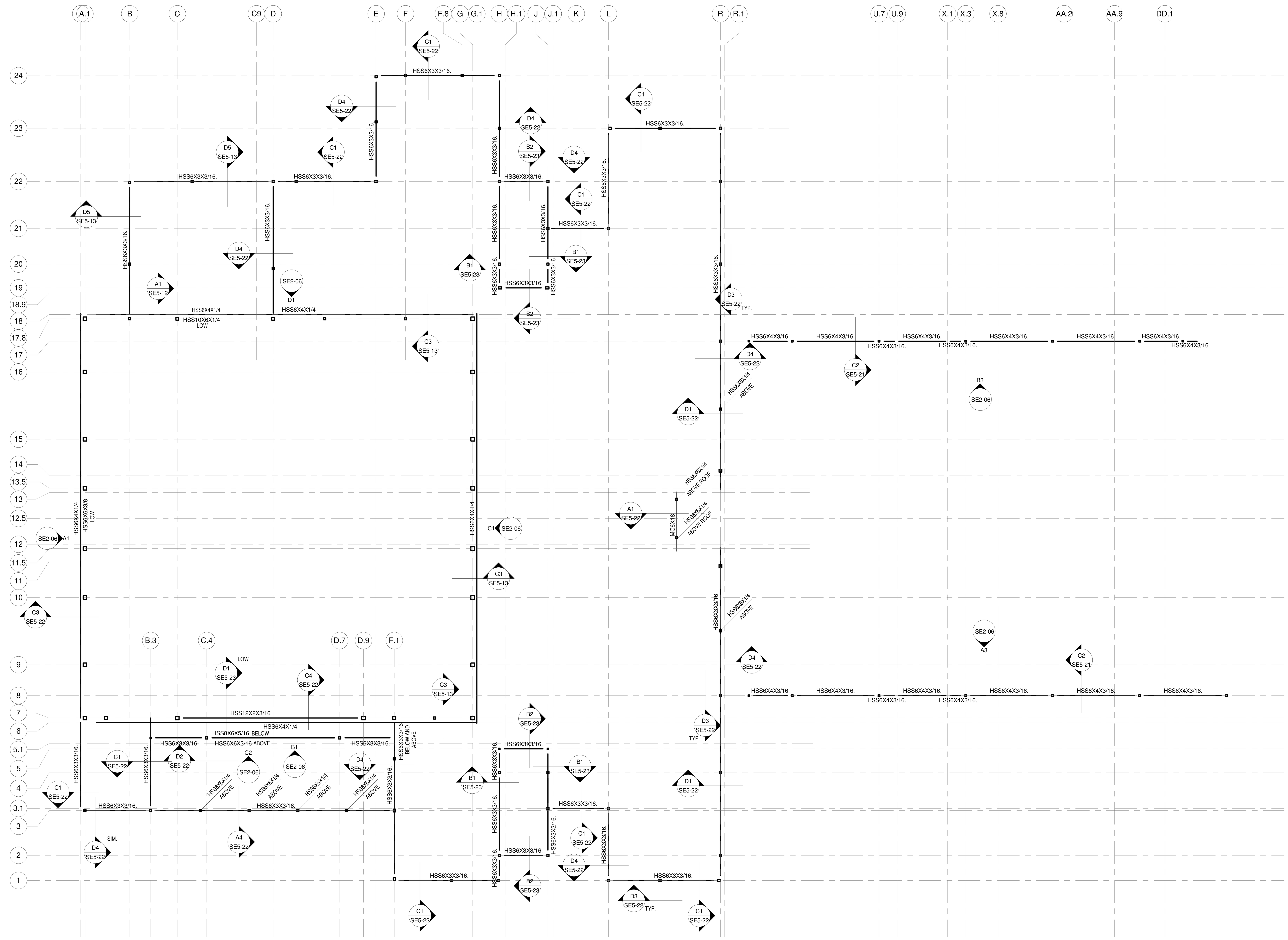
Construction Documents

Lobby / Stage Roof Framing Plan

SE1-30




1 PARAPET / FACADE SUPPORT FRAMING
3/32" = 1'-0"

JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
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CONSULTANTS

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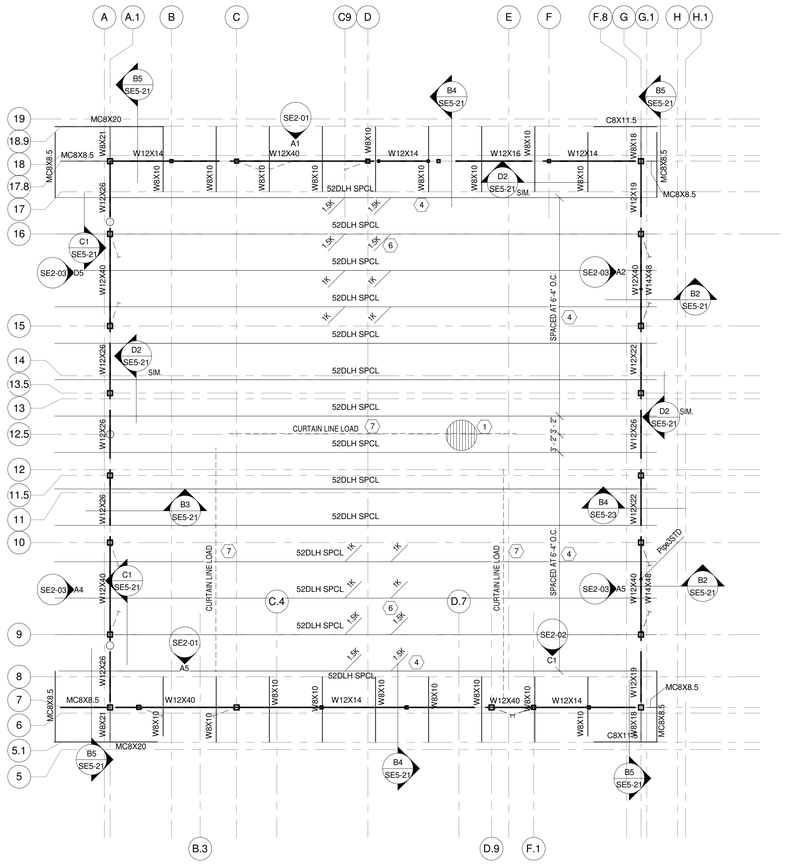
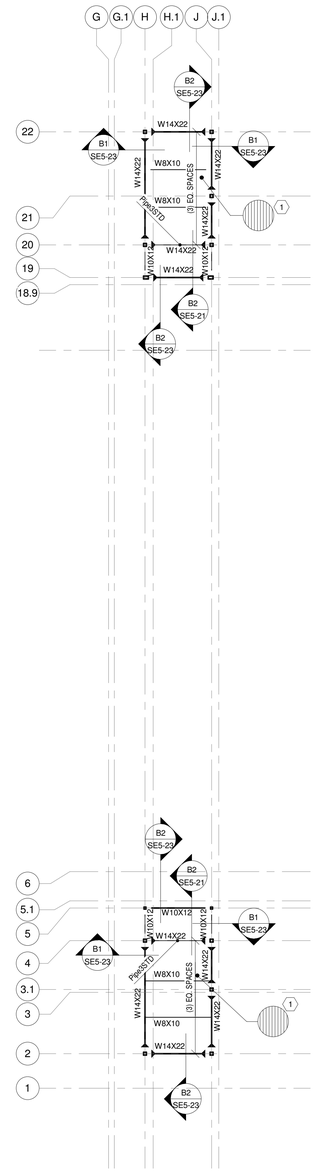
Construction Documents

# Parapet / Facade Framing Plan

# SE1-31




1 GYM ROOF FRAMING
3/32" = 1'-0"




2 STAIRCASE ROOF FRAMING
3/32" = 1'-0"

# ROOF FRAMING PLAN NOTES

⬡ INDICATES NOTE IS KEYED ON PLAN.

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2. SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
3. POINT LOADS TO BE APPLIED TO JOISTS AT LOCATIONS SHOWN. LOADS SHALL BE APPLIED IN ADDITION TO LOADS SPECIFIED IN GENERAL NOTES.
4. DLH ROOF JOIST SHALL BE 9" DEEP AT BEARING AND SHALL HAVE 7 1/2" DEEP EXTENSION. PROVIDE BRIDGING PER SJI STANDARDS. SEE SHEET SE2-05 FOR JOIST LOADING DIAGRAMS. APPLY ADDITIONAL LOADS SPECIFIED ON PLAN AND GENERAL NOTES.
5. FOR FRAMING AROUND OPENINGS IN ROOF DECK SEE DETAIL D1/SE5-21.
6. BASKETBALL HOOP CONNECTION TO STRUCTURE TO BE DESIGNED BY SUPPLIER. ROOF JOISTS TO BE DESIGNED FOR LOADS SHOWN AND FOR A HORIZONTAL LOAD OF 500LBS PARALLEL OR PERPENDICULAR TO JOIST.
7. JOIST AT SIDES OF CURTAIN SHALL BE DESIGNED FOR POINT LOAD OF 200LB AT ANY POINT ALONG BOTTOM CHORD OF JOIST.

# LEGEND

- INDICATES BRACE CONNECTION.
- SNOW DRIFT LOADS. APPLY TO JOISTS. SEE DRIFT SCHEDULE.
- BEAM DRAG CONNECTION, SEE STEEL TO STEEL SCHEDULE
- BEAM MOMENT FRAME CONNECTION, SEE DETAIL A5/SE5-21
- STEEL ROOF DECK, W/ SPAN DIRECTION INDICATED
- OPEN — OPENING IN DECK
- INDICATES CONCRETE MECHANICAL PAD.
- INDICATES HOLE IN WEB OF BEAM, SEE DETAIL C1/SE5-21
- HSSXX — INDICATES STEEL COLUMN
- HSSXX CF — INDICATES CONCRETE FILLED STEEL COLUMN. FILL WITH 4000psi SELF CONSOLIDATING CONCRETE
- 5K — INDICATES POINT LOAD FROM BASKETBALL HOOP


JACOBY ARCHITECTS

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Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


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**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

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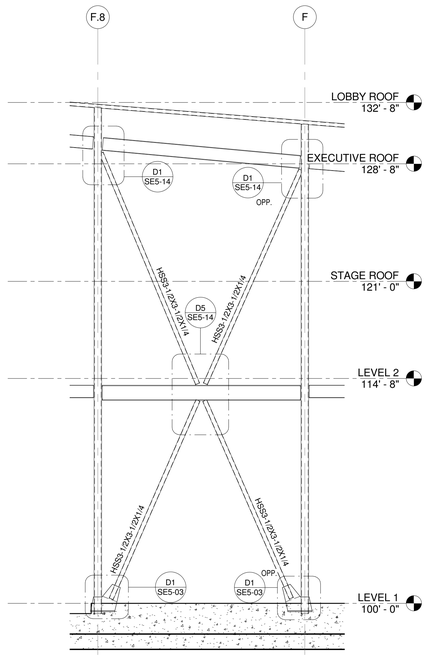
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

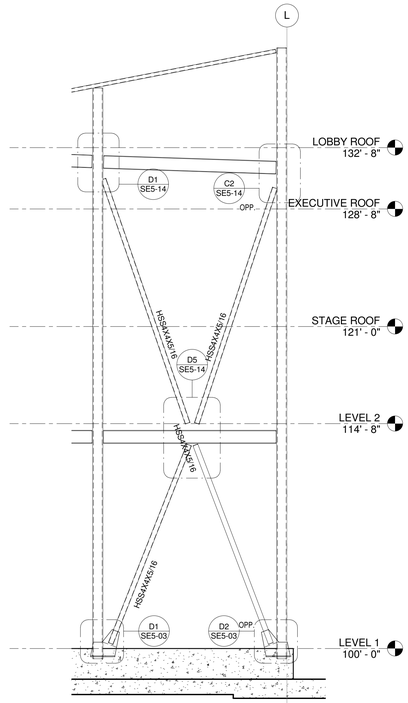
Construction Documents

Gym / Staircase Roof Framing Plan

SE1-40



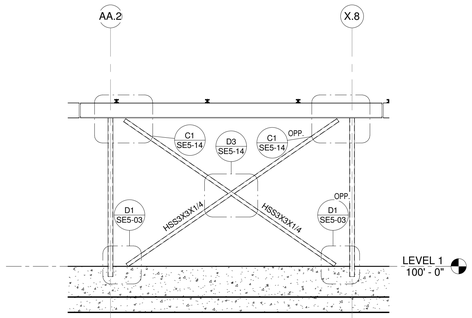

C1 SE2-01 BRACES ALONG GRID 24
1/4" = 1'-0"



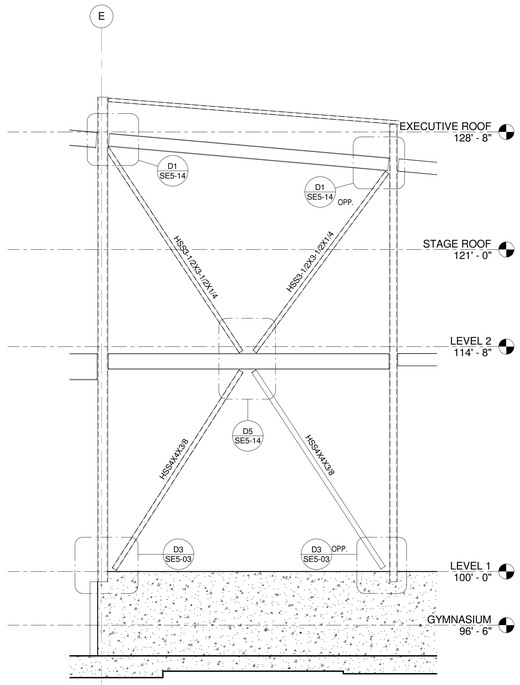

C2 SE2-01 BRACES ALONG GRID 23
1/4" = 1'-0"

## BRACE FRAME ELEVATION NOTES

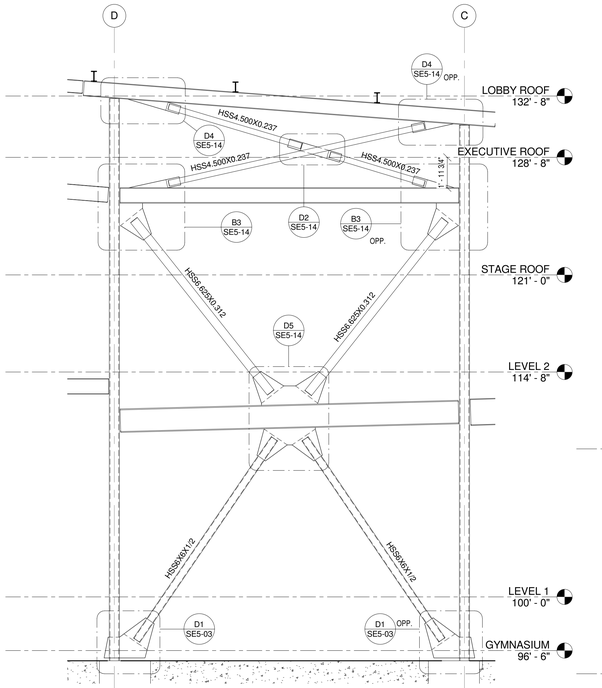
1. PROTECTED ZONES AND SHALL HAVE NO ATTACHMENTS OR ERECTION AIDS PLACED WITHIN THIS AREA UNLESS PERMISSION IS OBTAINED BY THE ENGINEER OF RECORD.
2. ALL CONNECTIONS OF BRACES TO GUSSETS AND GUSSETS TO BEAMS, COLUMNS, AND/OR BASEPLATES ARE CONSIDERED PROTECTED ZONES. WELDING FOR THE DECK TO THE BEAM IS PERMITTED IN THIS AREA.
3. THE MIDDLE QUARTER OF ALL BRACES SHALL ALSO BE CONSIDERED PROTECTED ZONES.
4. SEE DETAIL A5/SE5-14 FOR PROTECTED ZONES.
5. ALL DIMENSIONS SHOWN ON PLAN ARE FOR GENERAL INFORMATION ONLY. CONTRACTOR TO FIELD VERIFY AND COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
6. GUSSET PLATE CONNECTIONS ARE ALL PER BRACE CONNECTION SCHEDULE, UNLESS NOTED OTHERWISE.
7. FOLD LINES SHALL NOT TERMINATE IN CONCRETE SLABS UNLESS 1" THICK FOAM IS PLACED AGAINST THE GUSSET AND BRACE PRIOR TO CONCRETE PLACEMENT.
8. ALL WELDS TO BRACES AND GUSSET PLATES ARE DEMAND CRITICAL. DEMAND CRITICAL WELDS SHALL BE MADE WITH FILLER METALS THAT MEET THE REQUIREMENTS OF AWS D1.8



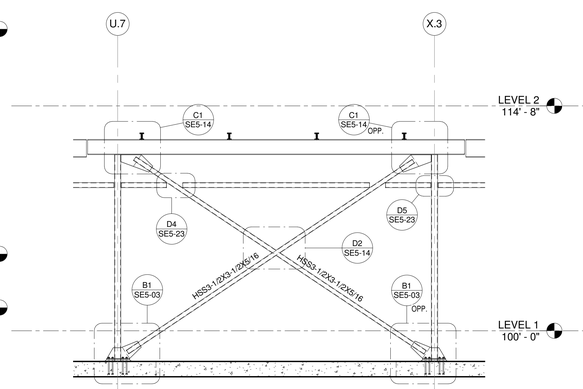

C3 SE2-01 BRACES ALONG GRID 22
1/4" = 1'-0"



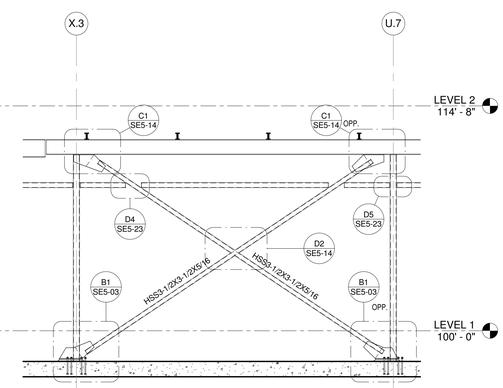

C5 SE2-01 BRACES ALONG GRID 22
1/4" = 1'-0"



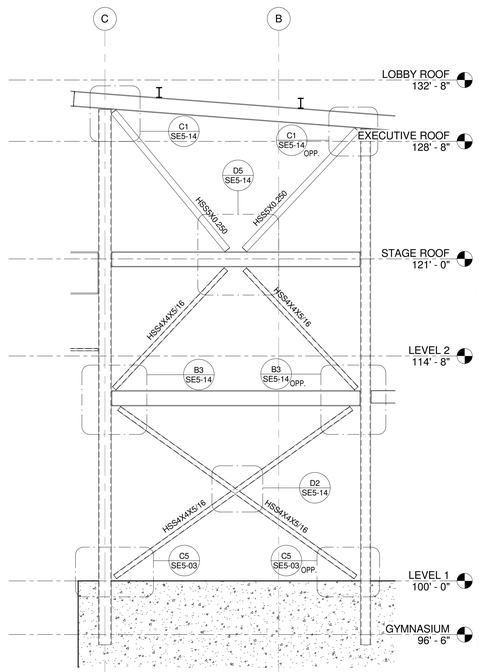

A1 SE2-01 BRACES ALONG GRID 17.8
1/4" = 1'-0"




A2 SE2-01 BRACES ALONG GRID 17
1/4" = 1'-0"




A4 SE2-01 BRACES ALONG GRID 8
1/4" = 1'-0"




A5 SE2-01 BRACES ALONG GRID 7
1/4" = 1'-0"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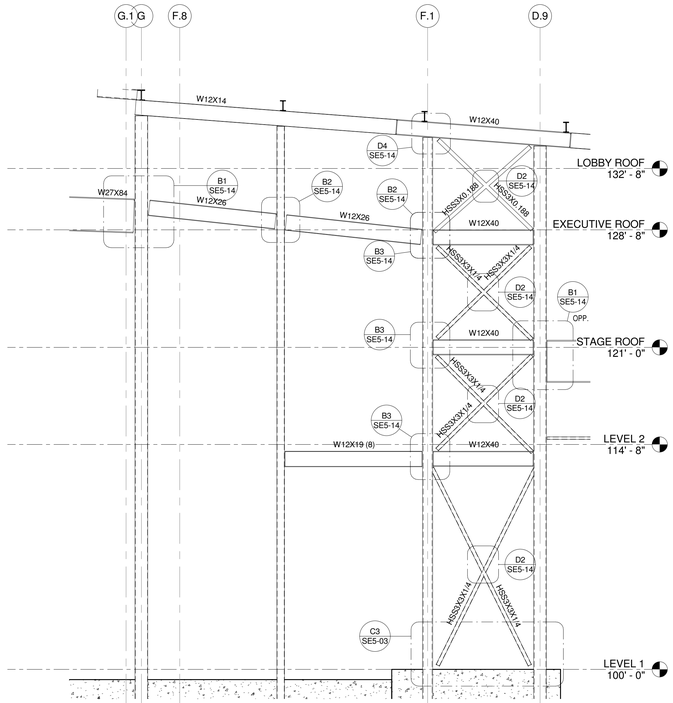
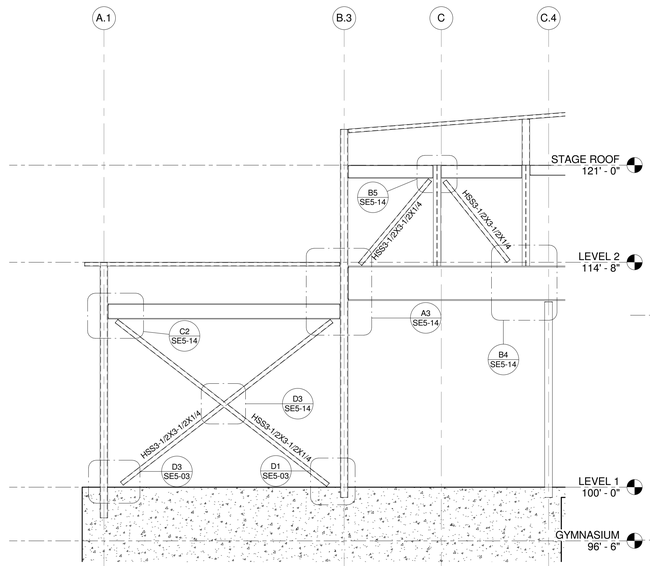
Brace Elevations

SE2-01




C1 SE2-02 BRACES ALONG GRID 7
1/4" = 1'-0"




C2 SE2-02 BRACES ALONG GRID 3
1/4" = 1'-0"

## BRACE FRAME ELEVATION NOTES

1. PROTECTED ZONES AND SHALL HAVE NO ATTACHMENTS OR ERECTION AIDS PLACED WITHIN THIS AREA UNLESS PERMISSION IS OBTAINED BY THE ENGINEER OF RECORD.
2. ALL CONNECTIONS OF BRACES TO GUSSETS AND GUSSETS TO BEAMS, COLUMNS, AND/OR BASEPLATES ARE CONSIDERED PROTECTED ZONES. WELDING FOR THE DECK TO THE BEAM IS PERMITTED IN THIS AREA.
3. THE MIDDLE QUARTER OF ALL BRACES SHALL ALSO BE CONSIDERED PROTECTED ZONES.
4. SEE DETAIL 45/SE5-14 FOR PROTECTED ZONES.
5. ALL DIMENSIONS SHOWN ON PLAN ARE FOR GENERAL INFORMATION ONLY. CONTRACTOR TO FIELD VERIFY AND COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
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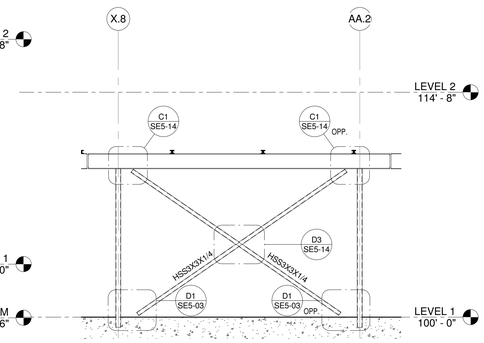
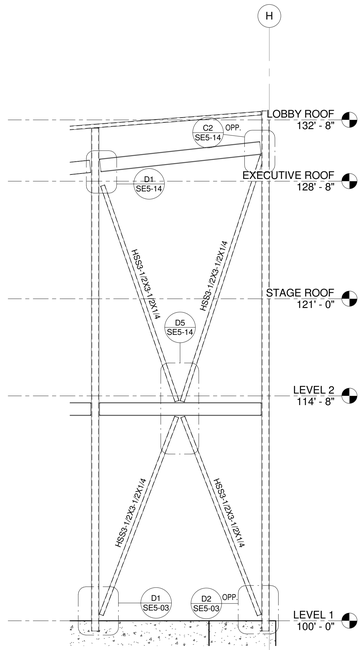
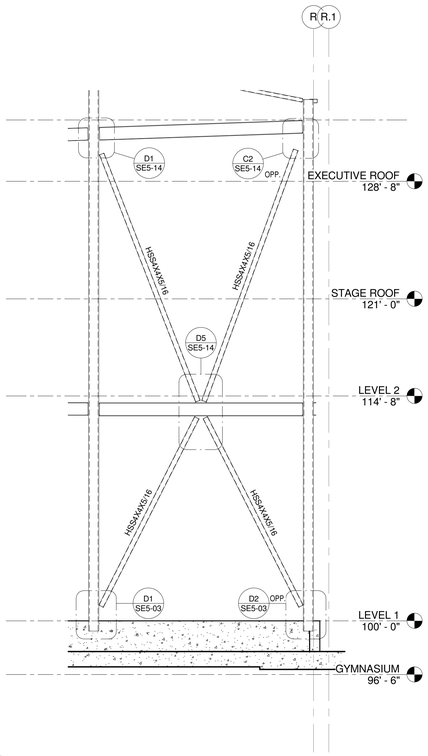


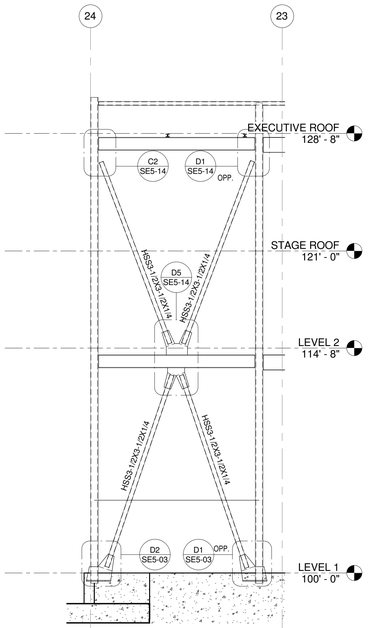

C4 SE2-02 BRACES ALONG GRID 2
1/4" = 1'-0"



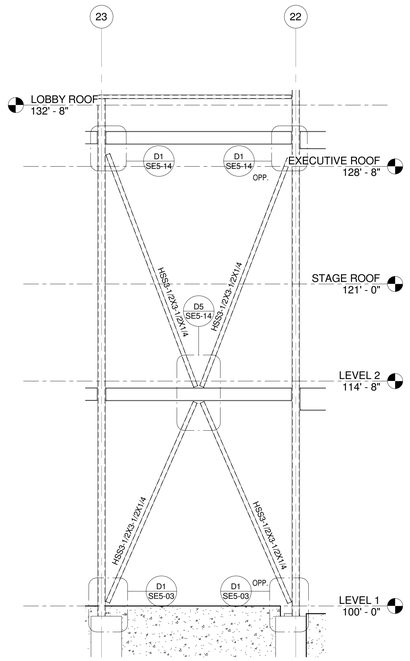

C5 SE2-02 BRACES ALONG GRID 1
1/4" = 1'-0"



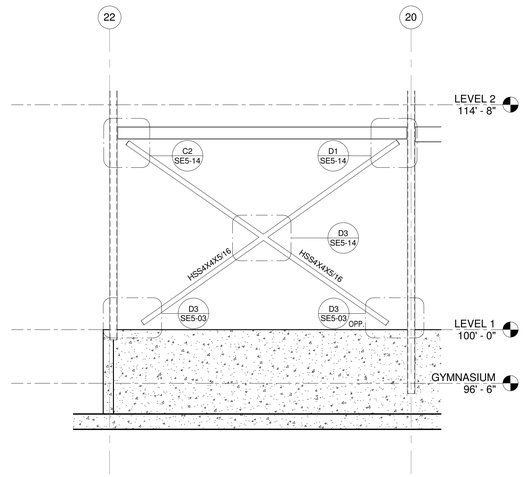

A1 SE2-02 BRACES ALONG GRID 1
1/4" = 1'-0"




A2 SE2-02 BRACES ALONG GRID E
1/4" = 1'-0"




A3 SE2-02 BRACES ALONG GRID H
1/4" = 1'-0"




A4 SE2-02 BRACES ALONG GRID B
1/4" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

| | |
|---|---|
| Architectural: | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
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| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
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### SHEET DATA

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Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building | Salt Lake City, Utah 84114-1204-3019

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

| Revision | Date |
|---|---|

### ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Brace Elevations

SE2-02

# BRACE FRAME ELEVATION NOTES

1. PROTECTED ZONES AND SHALL HAVE NO ATTACHMENTS OR ERECTION AIDS PLACED WITHIN THIS AREA UNLESS PERMISSION IS OBTAINED BY THE ENGINEER OF RECORD.
2. ALL CONNECTIONS OF BRACES TO GUSSETS AND GUSSETS TO BEAMS, COLUMNS, AND/OR BASEPLATES ARE CONSIDERED PROTECTED ZONES. WELDING FOR THE DECK TO THE BEAM IS PERMITTED IN THIS AREA.
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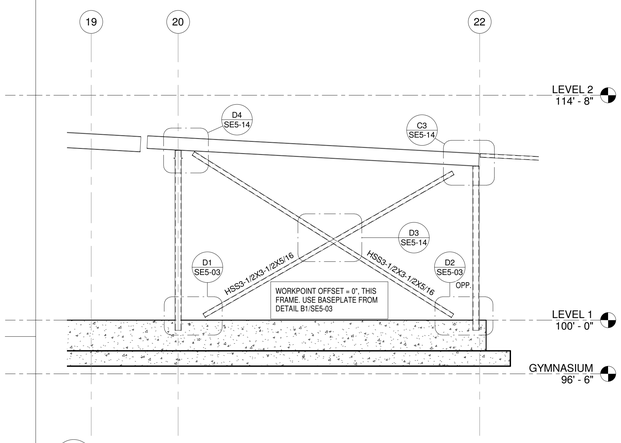
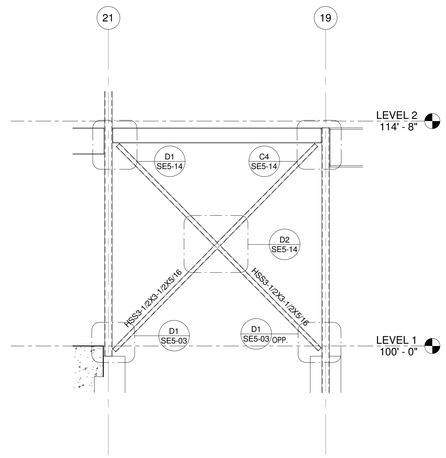
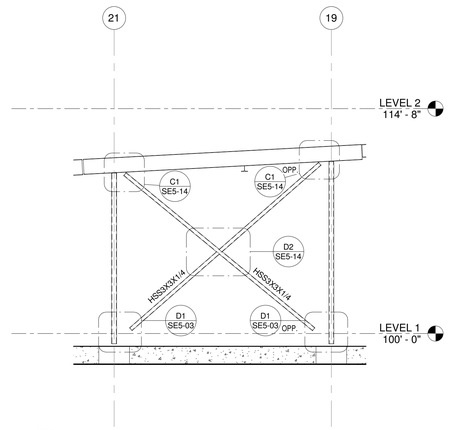


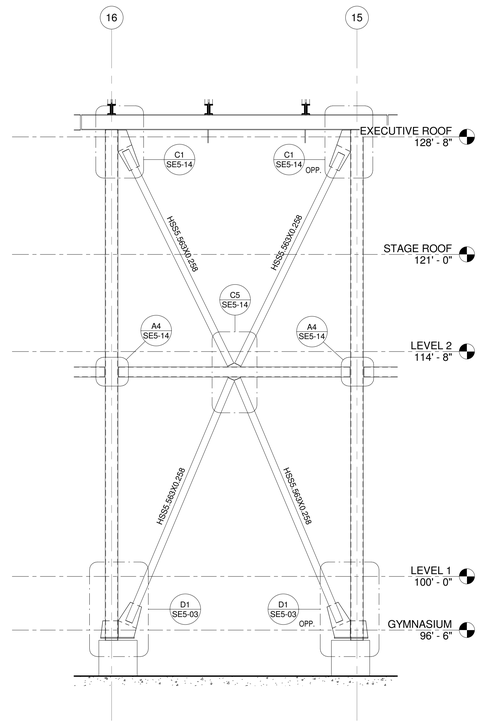

D2 / SE2-03 BRACES ALONG GRID EE
1/4" = 1'-0"



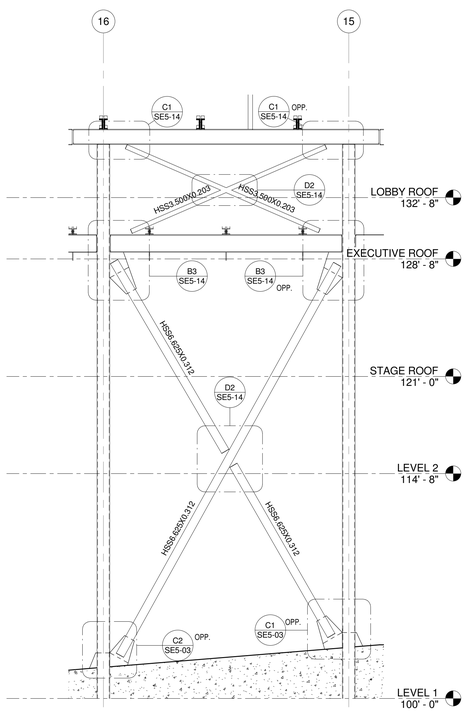

D3 / SE2-03 BRACES ALONG GRID L
1/4" = 1'-0"



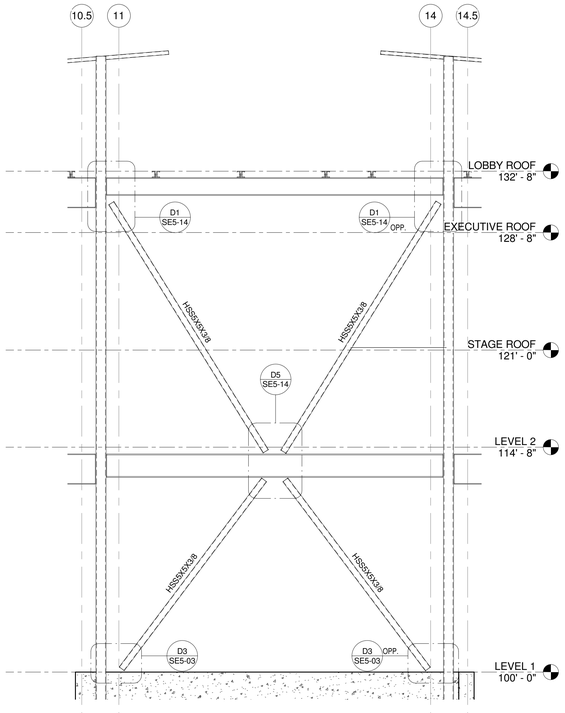

D4 / SE2-03 BRACES ALONG GRID T
1/4" = 1'-0"



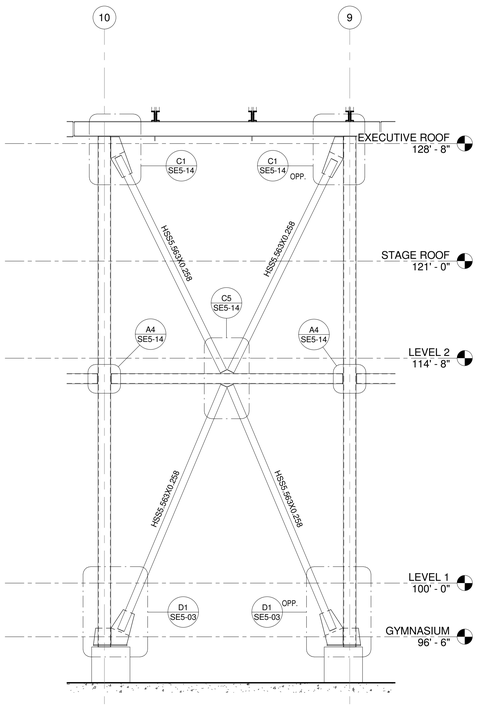

D5 / SE2-03 BRACES ALONG GRID A.1
1/4" = 1'-0"



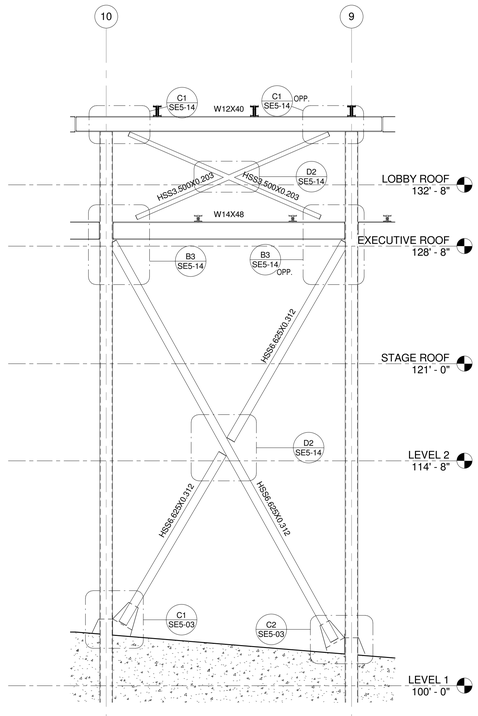

A2 / SE2-03 BRACES ALONG GRID G
1/4" = 1'-0"




A3 / SE2-03 BRACES ALONG GRID R
1/4" = 1'-0"




A4 / SE2-03 BRACES ALONG GRID A.1
1/4" = 1'-0"




A5 / SE2-03 BRACES ALONG GRID G
1/4" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

| | |
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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building | Salt Lake City, Utah 84114-1204 (801)

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

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|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Brace Elevations

SE2-03

# BRACE FRAME ELEVATION NOTES

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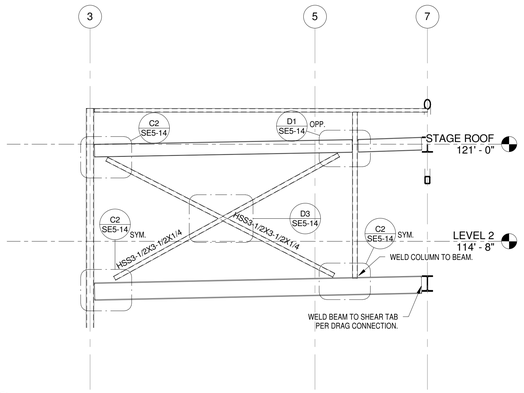
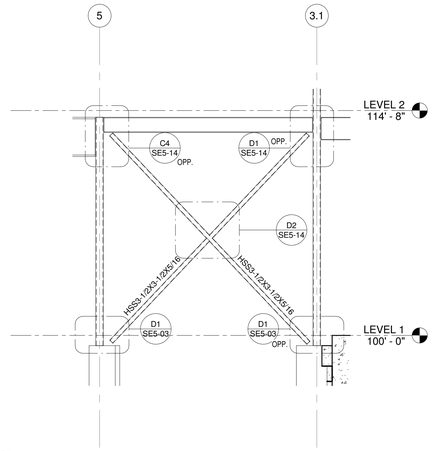
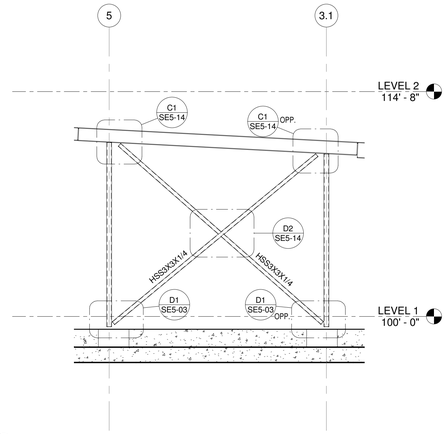


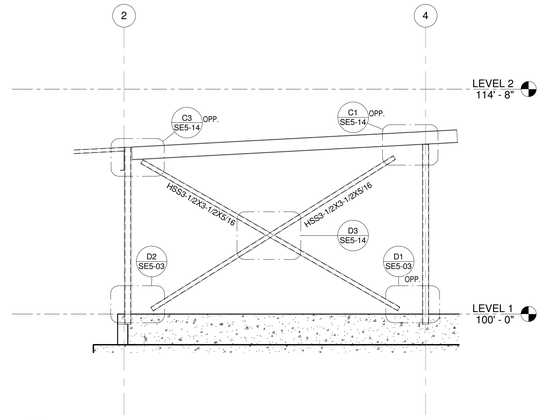

C2 / SE2-04 BRACES ALONG GRID B.3
1/4" = 1'-0"



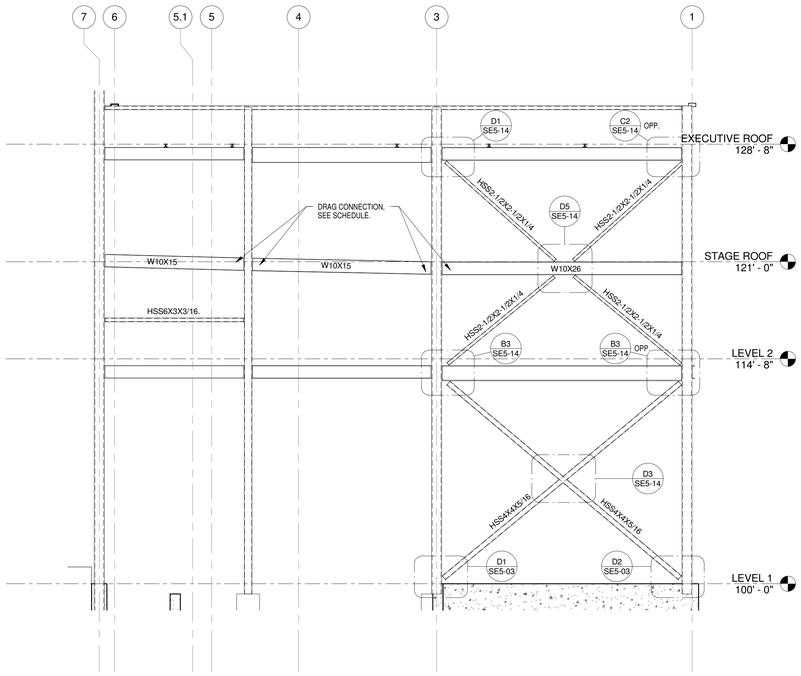

C4 / SE2-04 BRACE 27
1/4" = 1'-0"




C5 / SE2-04 BRACES ALONG GRID T
1/4" = 1'-0"




A1 / SE2-04 BRACES ALONG GRID EE
1/4" = 1'-0"




A2 / SE2-04 BRACES ALONG GRID F.1
1/4" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
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## CONSULTANTS

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## SHEET DATA

Drawn By: Author
Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

## ADDENDA

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| 2014 10 09 | Schematic Design |
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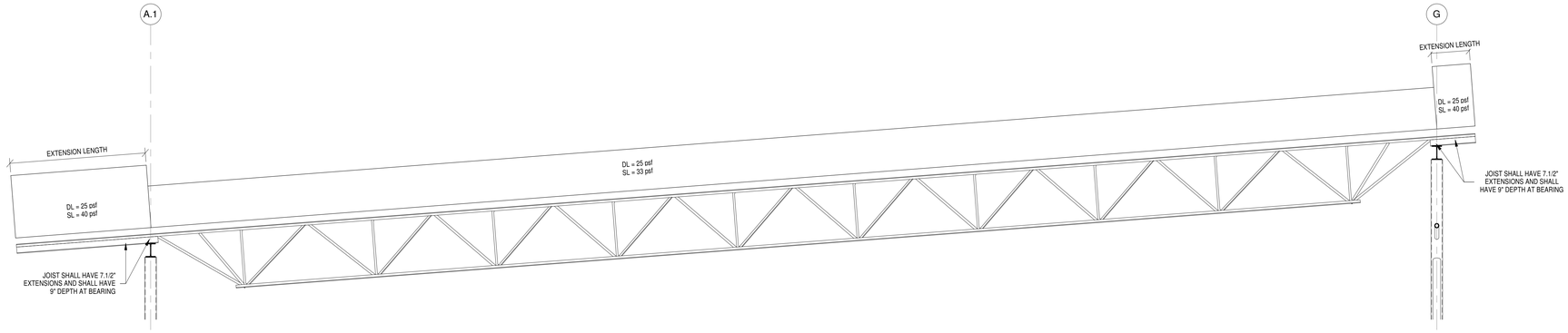
| 2015 05 21 | Bidding Documents |

Construction Documents

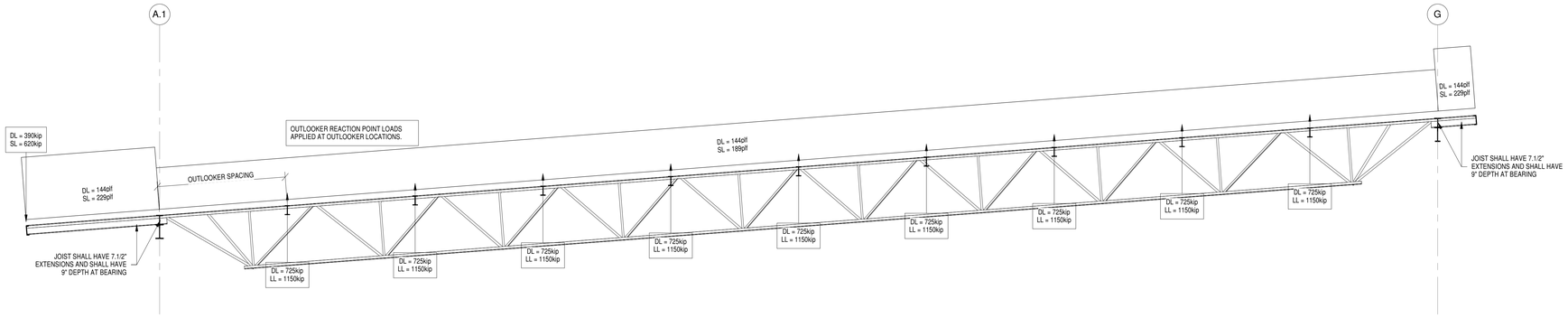
Brace Elevations

SE2-04



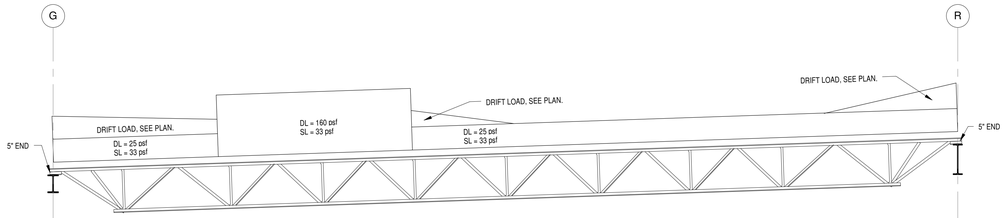

1 SE2-05 Gym Roof Center Truss Loading

1/4" = 1'-0"



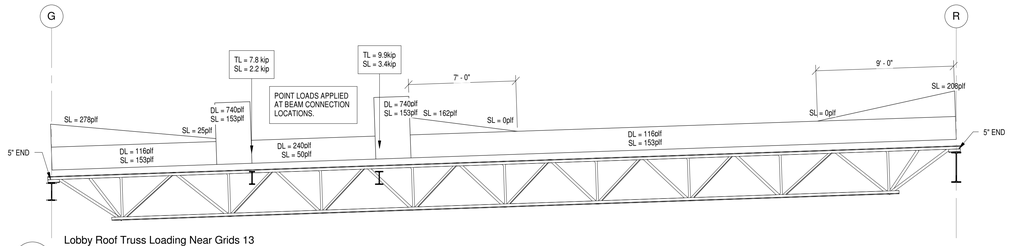

2 SE2-05 Gym Roof End Truss Loading

1/4" = 1'-0"



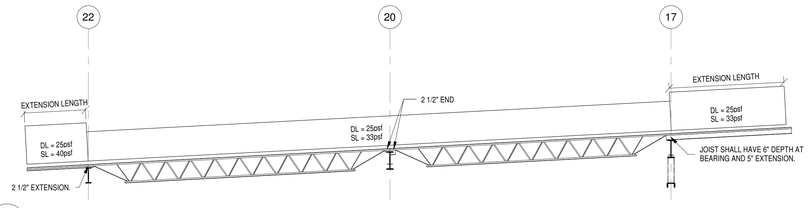

3 SE2-05 Typical Lobby Roof Truss Loading at Mechanical Pad

1/4" = 1'-0"




5 SE2-05 Lobby Roof Truss Loading Near Grids 13 and 15

1/4" = 1'-0"




6 SE2-05 Classroom Roof Truss Loading

1/4" = 1'-0"


JACOBY ARCHITECTS

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**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building, Salt Lake City, Utah 84114-1204

DFCM # 14190230

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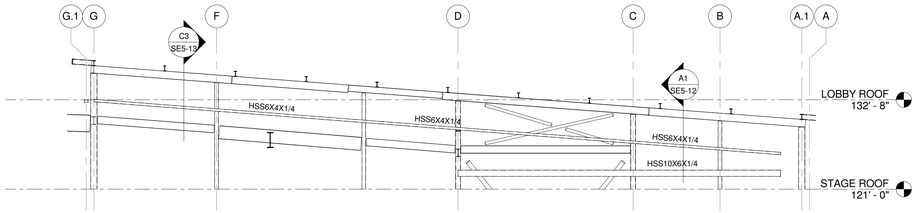
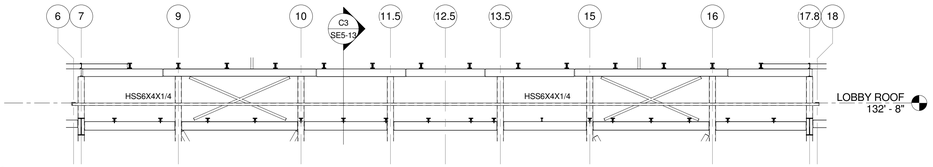
Construction Documents

Truss Loading Diagrams

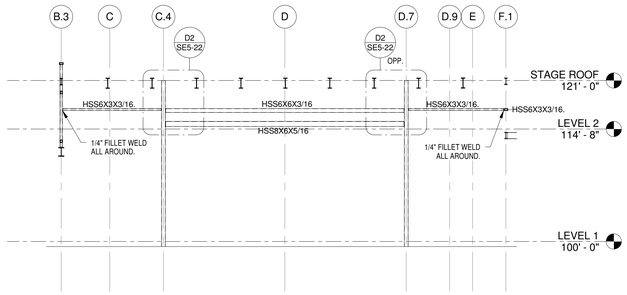
# SE2-05




D1
SE2-06
1/8" = 1'-0"




C1
SE2-06
1/8" = 1'-0"

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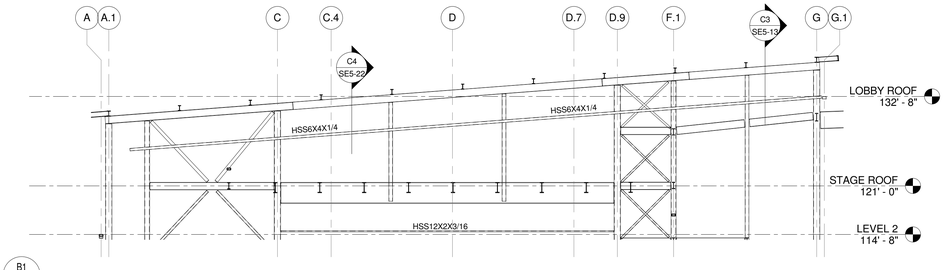
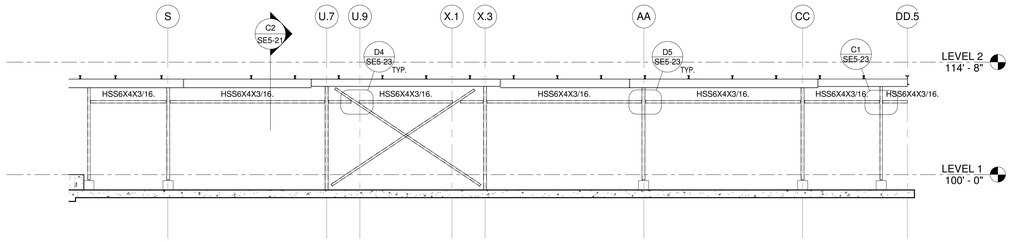
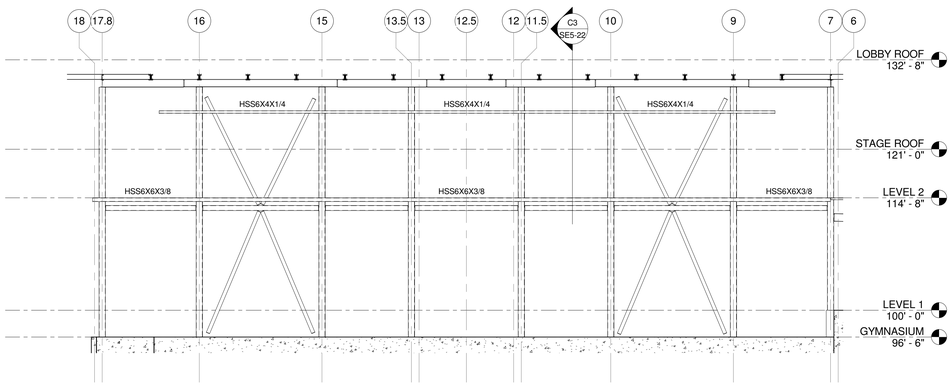
SE2-06
1/8" = 1'-0"



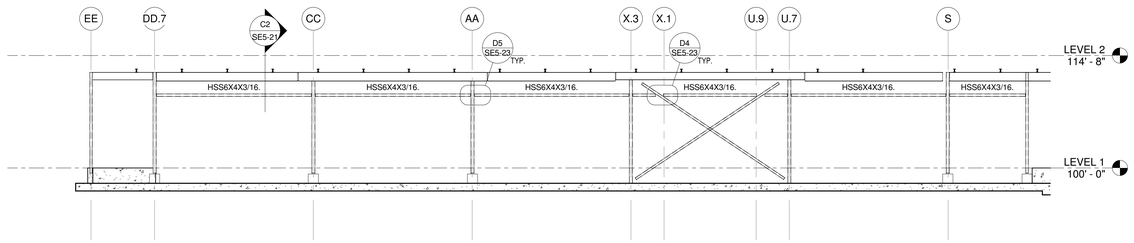

B1
SE2-06
1/8" = 1'-0"




B3
SE2-06
1/8" = 1'-0"




A1
SE2-06
1/8" = 1'-0"




A3
SE2-06
1/8" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


## CONSULTANTS

| | |
|---|---|
| Architectural: | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
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## SHEET DATA

Drawn By: Author

Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230

DFCM APPROVAL STAMP:

## ADDENDA

| Revision | Date |
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## ISSUE/PHASE

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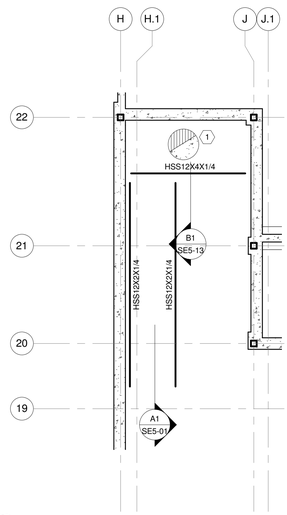
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

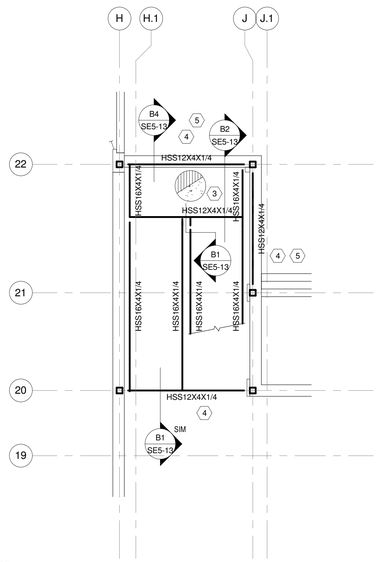
Construction Documents

Wall Elevations

SE2-06




C1 SE4-01 North Stair/Basement
3/16" = 1'-0"




C2 SE4-01 North Stair/Level 1
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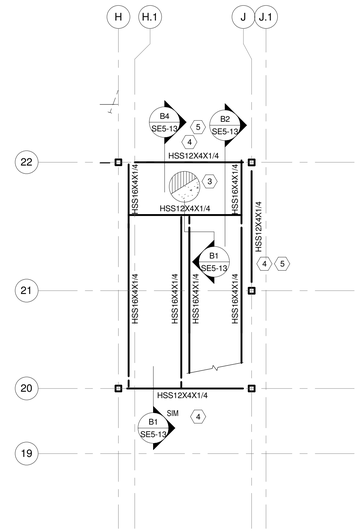


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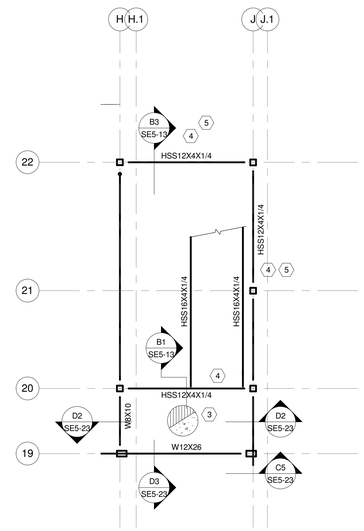
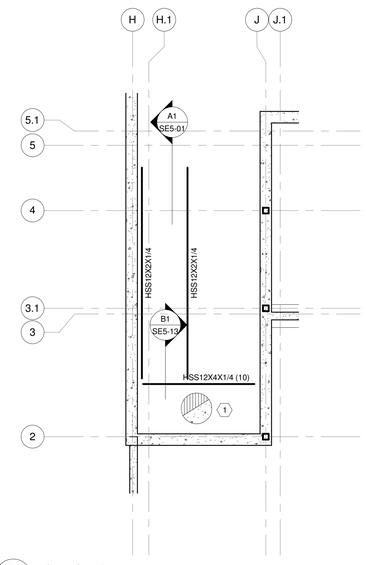
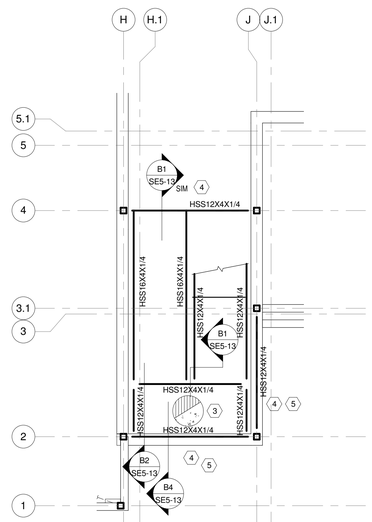



C5 SE4-01 North Stair/Lobby Roof
3/16" = 1'-0"




A1 SE4-01 South Stair/Basement
3/16" = 1'-0"

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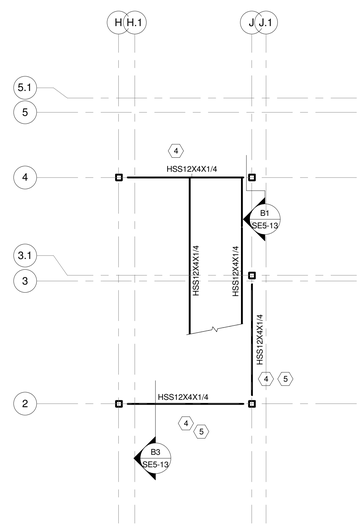
3/16" = 1'-0"

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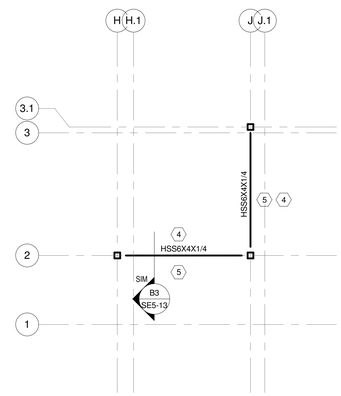


A5 SE4-01 South Stair/Lobby Roof
3/16" = 1'-0"

# STAIR FRAMING PLAN NOTES

INDICATES NOTE IS KEYED ON PLAN.

1. FLOOR SLAB SHALL BE 5.1/4" TOTAL THICKNESS LIGHTWEIGHT CONCRETE SLAB ON 2" X 18 GAUGE TYPE "W2" COMPOSITE GALVANIZED FLOOR DECK WITH INTERLOCKING SIDE LAPS. THREE SPAN MINIMUM. REINFORCE WITH #3 BARS AT 18"O.C. EACH WAY. CHAIR BARS TO BE 1" FROM TOP OF SLAB. ATTACH DECK TO PERPENDICULAR SUPPORTS WITH (4) 3/4" DIAMETER PUDDLE WELDS PER 36" WIDE SHEET. ATTACH TO PARALLEL SUPPORTS WITH VERCO "VCS2' CONNECTION AT 36"O.C. OR BUTTON PUNCHES AT 16"O.C.
2. ALL PERIMETER BEAMS SUPPORTING FACADE (VERTICALLY AND LATERALLY) SHALL HAVE BOTTOM FLANGES BRACED WITH KICKERS AT EACH JOIST (IF JOIST FRAMES INTO BEAM) OR AT 6'-0" O.C. MAX FROM BEAM BOTTOM FLANGE TO TOP FLANGE OF ADJACENT BEAM. U.N.O.
3. FLOOR SLAB SHALL BE 4" TOTAL THICKNESS LIGHTWEIGHT CONCRETE SLAB ON 1.1/2" X 20 GAUGE TYPE "B" COMPOSITE GALVANIZED FLOOR DECK WITH INTERLOCKING SIDE LAPS. THREE SPAN MINIMUM. REINFORCE WITH #3 BARS AT 18"O.C. EACH WAY. CHAIR BARS TO BE 1" FROM TOP OF SLAB. ATTACH DECK TO PERPENDICULAR SUPPORTS WITH (4) 3/4" DIAMETER PUDDLE WELDS PER 36" WIDE SHEET. ATTACH TO PARALLEL SUPPORTS WITH VERCO 'VCS2' CONNECTION AT 36"O.C.
4. AT COLUMN TO TUBE CONNECTION, WELD TUBE ALL AROUND W/ 1/4" FILLET WELD
5. CURTAIN WALL ATTACHMENT TO STRUCTURE BY CURTAIN WALL SUPPLIER

# LEGEND

CONCRETE ON STEEL DECK, W/ SPAN DIRECTION INDICATED

OPEN — OPENING IN DECK

CONCRETE WALL, SEE SCHEDULE

HSSX — INDICATES STEEL COLUMN


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


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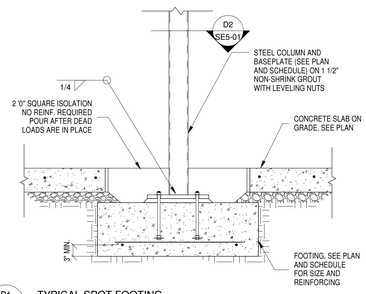
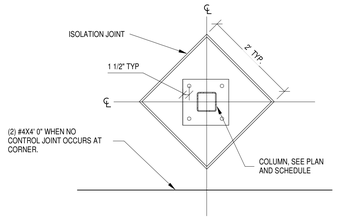
Construction Documents

Stair Plans

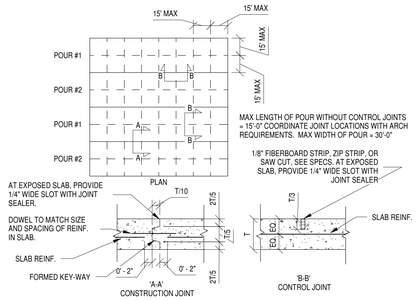
# SE4-01



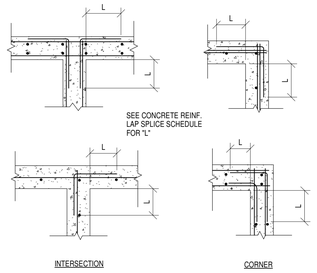

D1 SE5-01 TYPICAL SPOT FOOTING
3/4" = 1'-0"



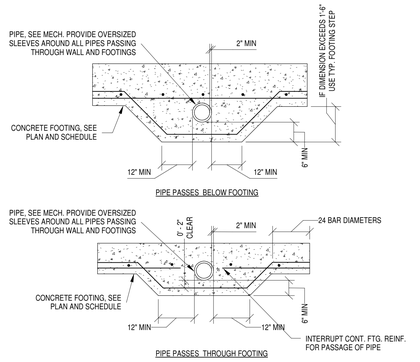

D2 SE5-01 TYPICAL SLAB ISOLATION JOINT
3/4" = 1'-0"



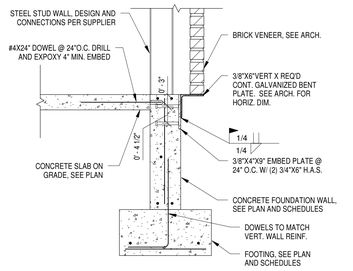

D3 SE5-01 TYPICAL CONCRETE SLAB JOINT DETAIL
3/4" = 1'-0"



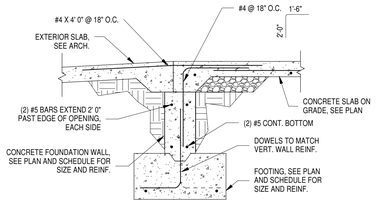

D4 SE5-01 TYPICAL WALL INTERSECTION REINFORCING
3/4" = 1'-0"




D5 SE5-01 TYPICAL FOOTING PENETRATION
3/4" = 1'-0"




C1 SE5-01 3/4" = 1'-0"




C2 SE5-01 TYPICAL THRESHOLD
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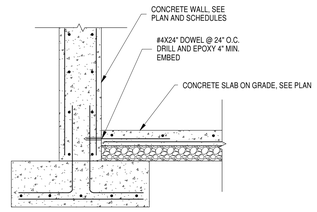
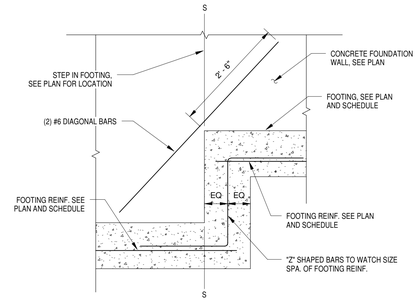
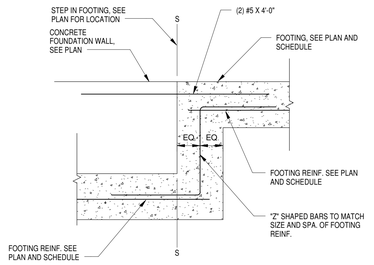


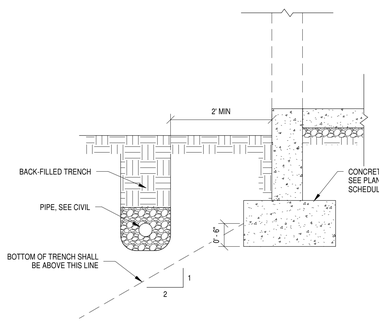

C3 SE5-01 3/4" = 1'-0"



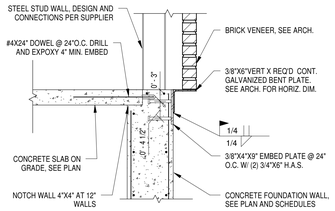

C4 SE5-01 TYPICAL STEP IN FOOTING
3/4" = 1'-0"




C5 SE5-01 TYPICAL STEP TO INTERIOR FOOTING
3/4" = 1'-0"




B1 SE5-01 ADJACENT TRENCH LIMITS
3/4" = 1'-0"

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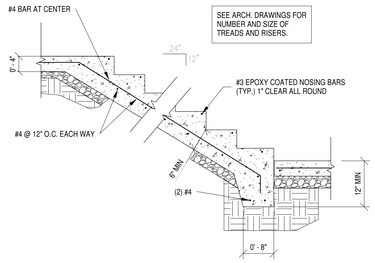
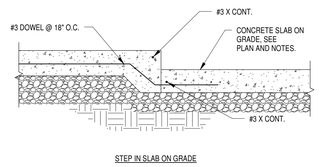
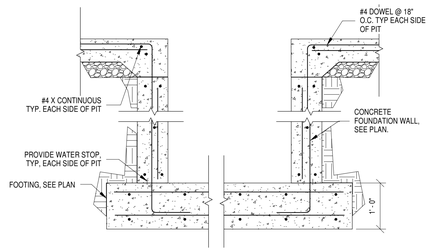


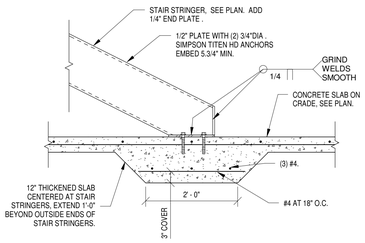

B3 SE5-01 STAIRS ON GRADE
3/4" = 1'-0"



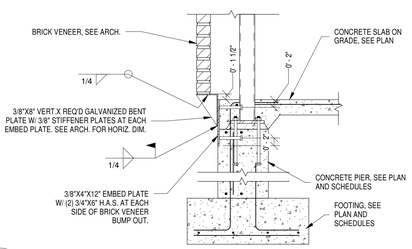

B4 SE5-01 TYPICAL RECESS IN SLAB ON GRADE
3/4" = 1'-0"




B5 SE5-01 3/4" = 1'-0"




A1 SE5-01 3/4" = 1'-0"

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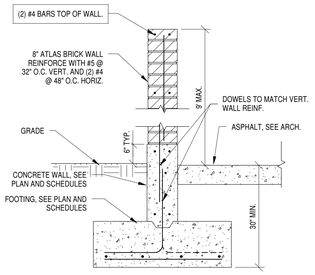
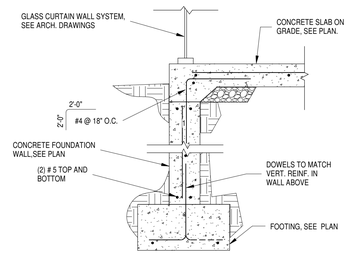
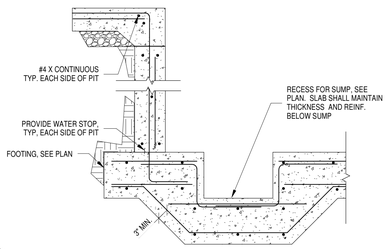



A3 SE5-01 3/4" = 1'-0"




A4 SE5-01 3/4" = 1'-0"




A5 SE5-01 3/4" = 1'-0"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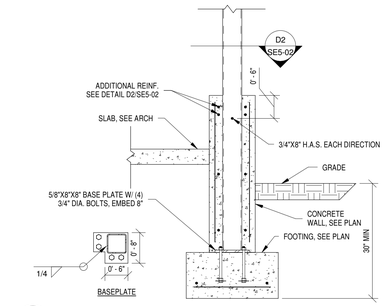
Footing/Foundation Details

SE5-01

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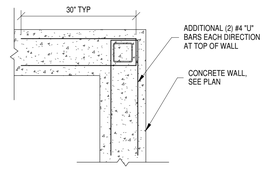


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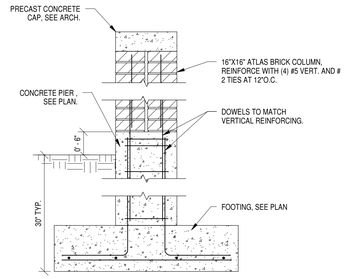
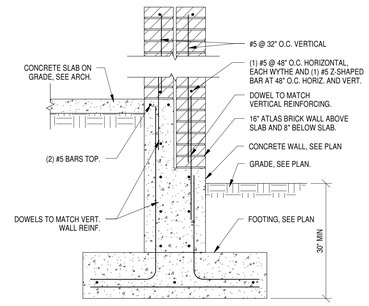



D3 SE5-02 3/4" = 1'-0"

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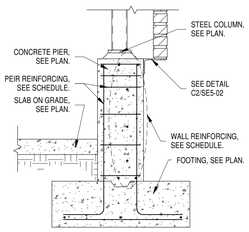


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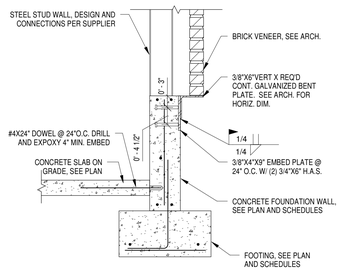


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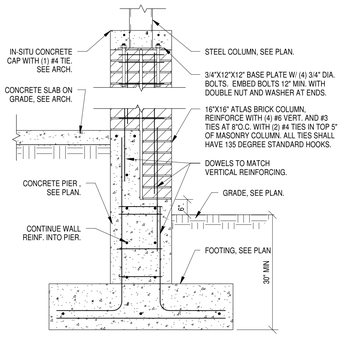


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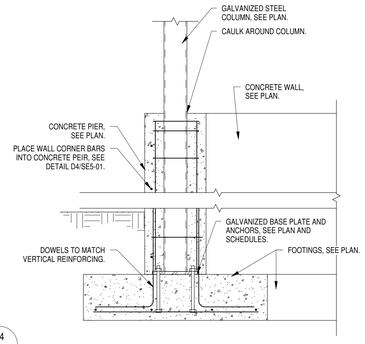


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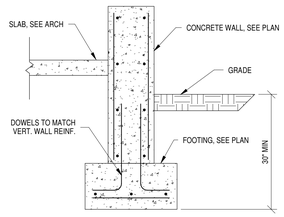
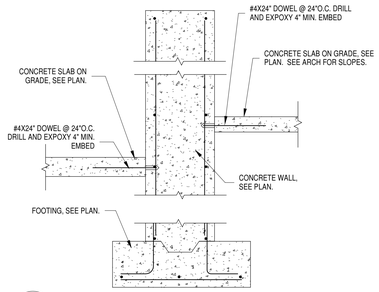
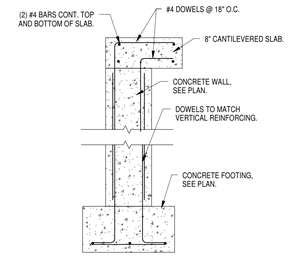


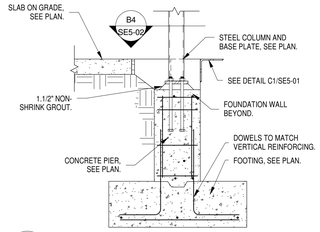

C5 SE5-02 3/4" = 1'-0"



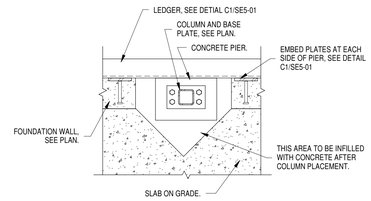

B1 SE5-02 3/4" = 1'-0"



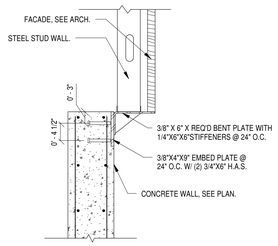

B2 SE5-02 3/4" = 1'-0"



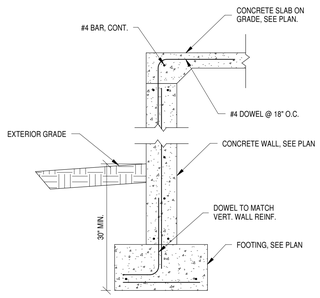

B3 SE5-02 3/4" = 1'-0"



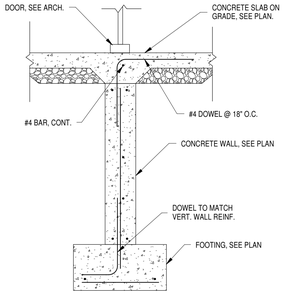

B4 SE5-02 3/4" = 1'-0"



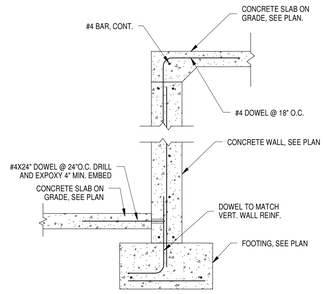

B5 SE5-02 3/4" = 1'-0"



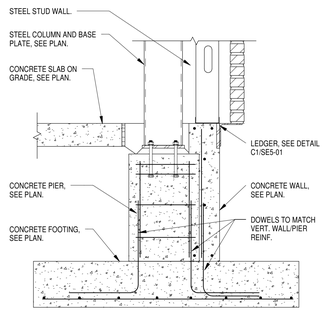

A1 SE5-02 3/4" = 1'-0"




A2 SE5-02 3/4" = 1'-0"

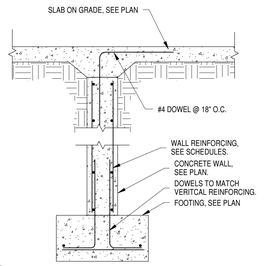



A3 SE5-02 3/4" = 1'-0"




A4 SE5-02 3/4" = 1'-0"

CONCRETE PIER AND WALL




A5 SE5-02 3/4" = 1'-0"


JACOBY ARCHITECTS

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801 363 1434
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CONSULTANTS

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SHEET DATA

Drawn By: Author
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PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

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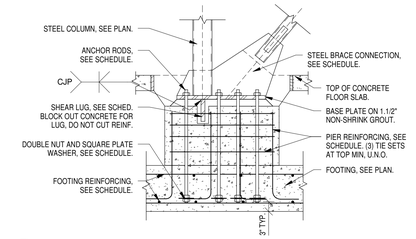
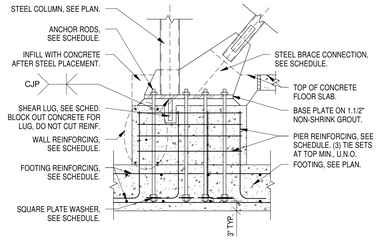
Construction Documents

Footing/Foundation Details

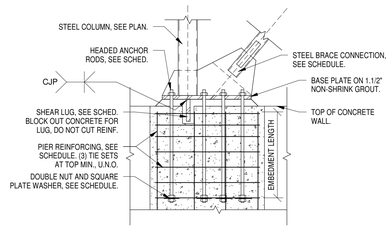
SE5-02



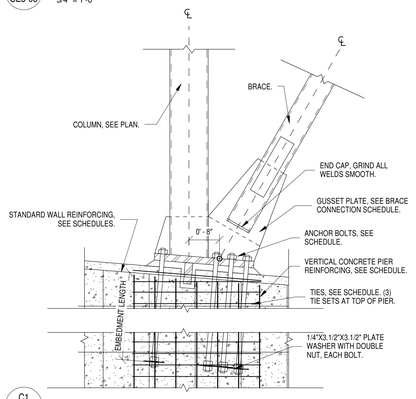

D1 SE5-03 BASE PLATE TO PEIR CONNECTION
3/4" = 1'-0"



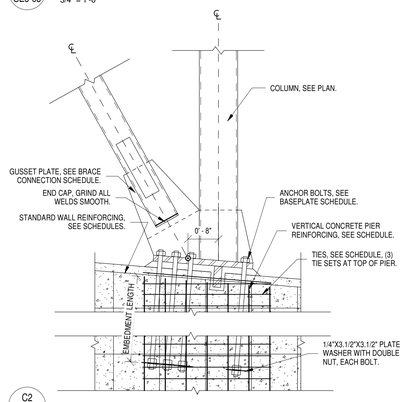

D2 SE5-03 BRACE CONNECTION AT CORNERS
3/4" = 1'-0"



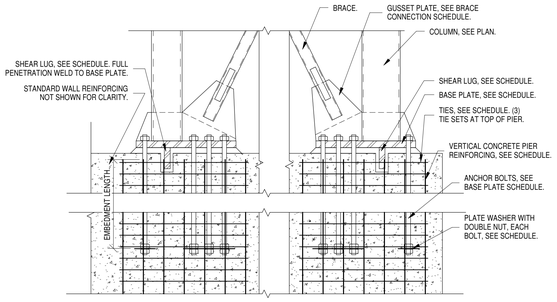

D3 SE5-03 BASEPLATE ON TOP OF WALL/PIER
3/4" = 1'-0"



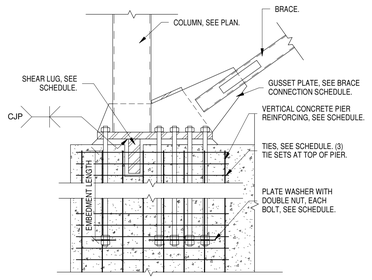

C1 SE5-03 3/4" = 1'-0"



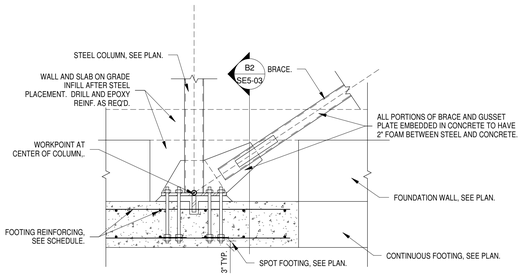

C2 SE5-03 3/4" = 1'-0"



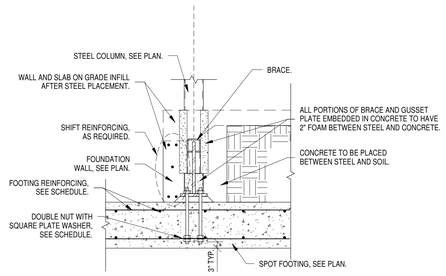

C3 SE5-03 3/4" = 1'-0"




C5 SE5-03 3/4" = 1'-0"




B1 SE5-03 SPECIAL EMBED. BRACE CONNECTION
3/4" = 1'-0"




B2 SE5-03 SPECIAL EMBED. BRACE CONNECTION
3/4" = 1'-0"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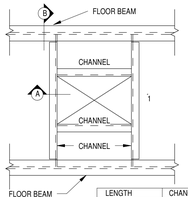
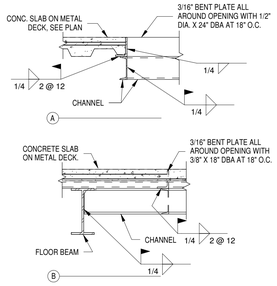
Footing/Foundation Details

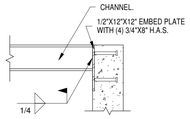
SE5-03

NOTE:
USE THIS DETAIL AT OPENINGS 12" OR GREATER. OPENSINGS LESS THAN 12" SHALL BE REINFORCED WITH 16 GAUGE PLATE, 10" LARGER THAN OPENING IN ALL DIRECTIONS AND FASTENED TO DECK AT 6" O.C.



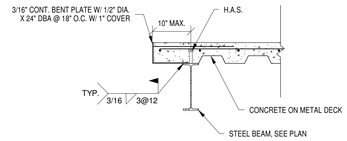

| LENGTH | CHANNEL |
|---|---|
| 1'-0" TO 6'-0" | C6X8.2 |
| 6'-0" TO 9'-0" | C7X9.8 |
| 9'-0" TO 12'-0" | C8X11.5 |



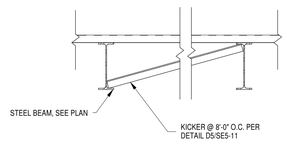




**AT CONCRETE WALLS**

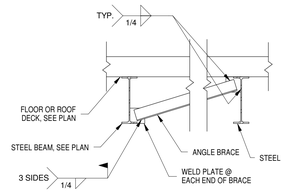
D1 SE5-11 TYPICAL OPENING IN FLOOR SLAB
3/4" = 1'-0"




D3 SE5-11 TYPICAL SLAB OVERHANG SHORT
3/4" = 1'-0"



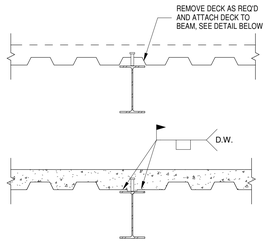

D4 SE5-11 3/4" = 1'-0"



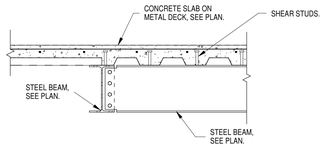

| ANGLE BRACE SCHEDULE | | |
|---|---|---|
| BRACE LENGTH | ANGLE BRACE SIZE | WELD PLATE SIZE |
| UP TO 4'-0" | L2X2X1/4 | 4"X4"X1/4" |
| 4'-0" TO 8'-0" | L3X3X1/4 | 4"X4"X1/4" |
| 8'-0" TO 12'-0" | 2-L2.1/2X2.1/2X1/4 | 4"X4"X3/8" |
| OVER 12'-0" | 2-L3X3X1/4 | 5"X5"X3/8" |

NOTE:
1. WHERE DOUBLE ANGLES ARE USED, PROVIDE 3"X3"X3/8" SPACER PLATES AT THIRD POINTS

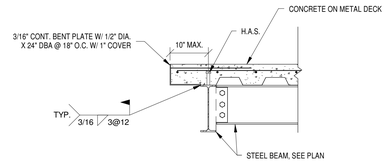
D5 SE5-11 TYPICAL KICKER DETAIL
3/4" = 1'-0"



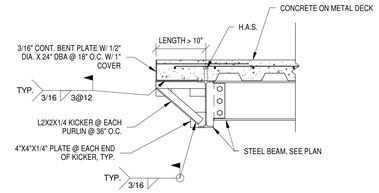

C1 SE5-11 3/4" = 1'-0"



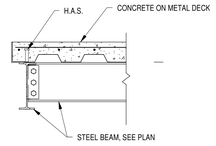

C2 SE5-11 TYPICAL DECK TRANSITION
3/4" = 1'-0"



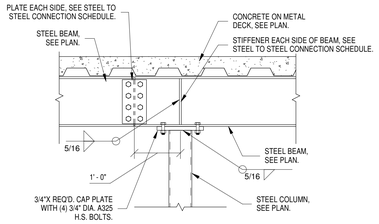

C3 SE5-11 TYPICAL SLAB OVERHANG SHORT
3/4" = 1'-0"



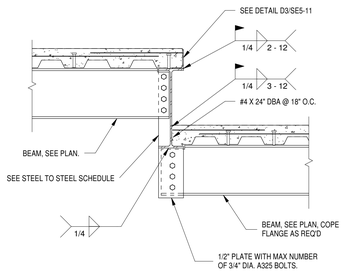

C4 SE5-11 TYPICAL SLAB OVERHANG LONG
3/4" = 1'-0"



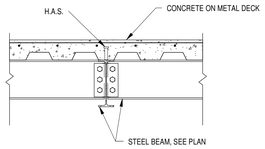

C5 SE5-11 TYPICAL SLAB EDGE
3/4" = 1'-0"



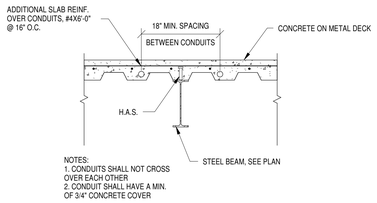

B1 SE5-11 3/4" = 1'-0"



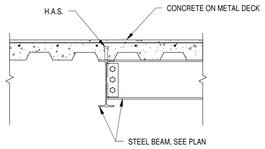

B2 SE5-11 3/4" = 1'-0"



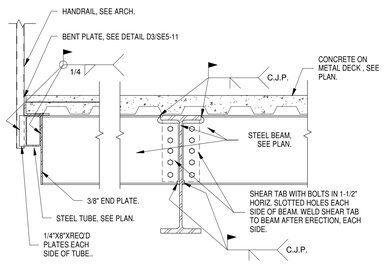

B3 SE5-11 3/4" = 1'-0"



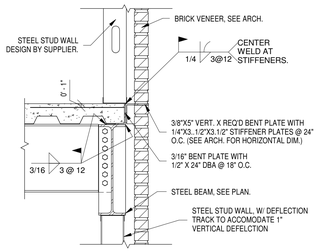

B4 SE5-11 3/4" = 1'-0"



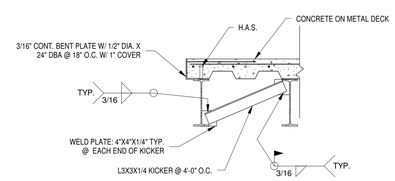

B5 SE5-11 3/4" = 1'-0"



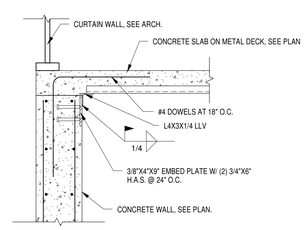

A1 SE5-11 3/4" = 1'-0"



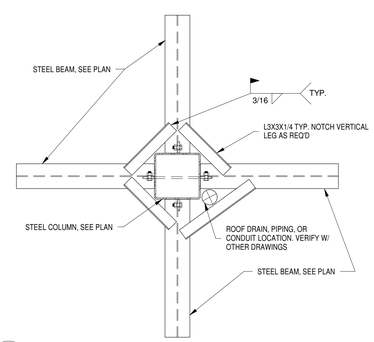

A2 SE5-11 3/4" = 1'-0"




A3 SE5-11 3/4" = 1'-0"




A4 SE5-11 3/4" = 1'-0"




A5 SE5-11 3/4" = 1'-0"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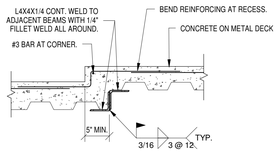
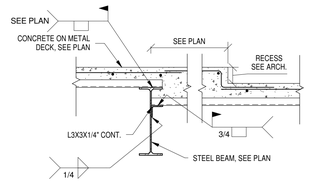
Floor Details

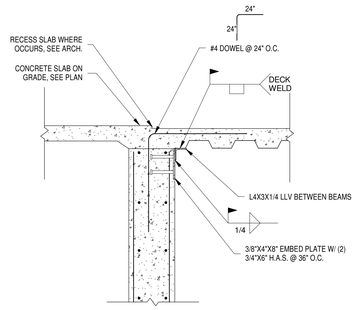
SE5-11



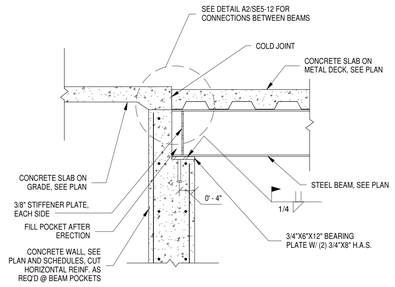

D1 SE5-12 3/4" = 1'-0"



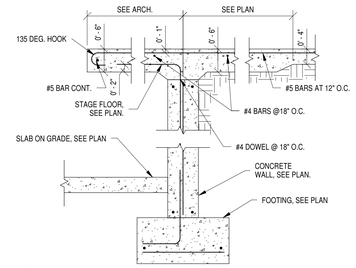

D2 SE5-12 3/4" = 1'-0"



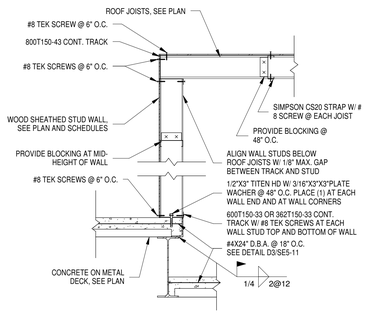

D3 SE5-12 3/4" = 1'-0"



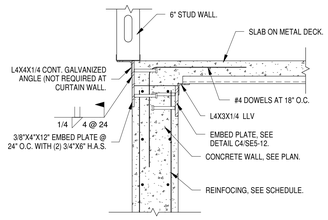

D4 SE5-12 3/4" = 1'-0"




D5 SE5-12 3/4" = 1'-0"




C1 SE5-12 3/4" = 1'-0"

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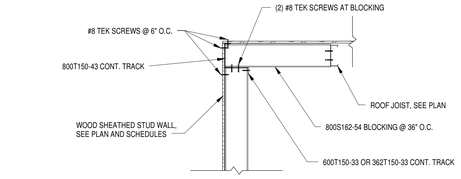


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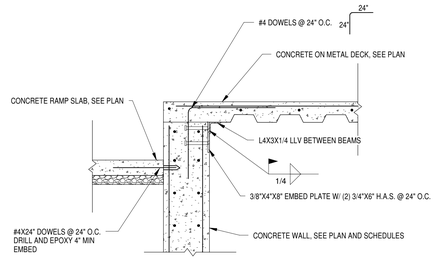
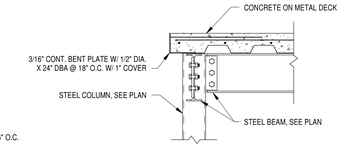



C4 SE5-12 3/4" = 1'-0"

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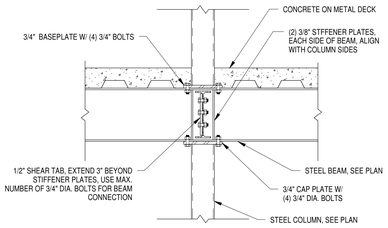


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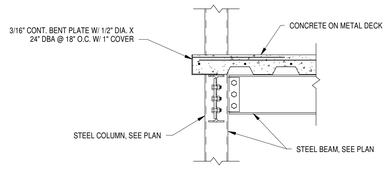


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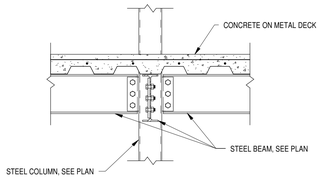
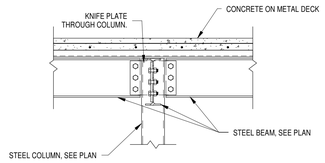
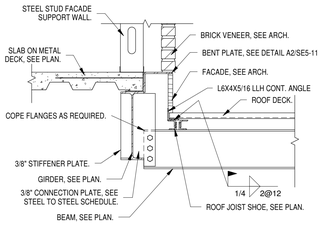


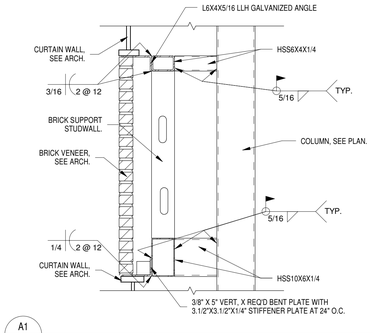

B3 SE5-12 3/4" = 1'-0"



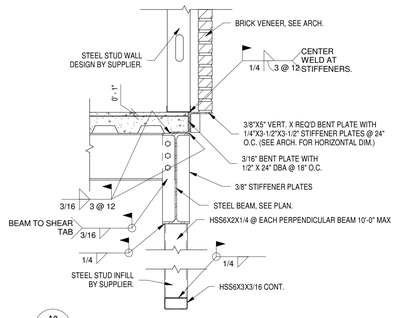

B4 SE5-12 3/4" = 1'-0"



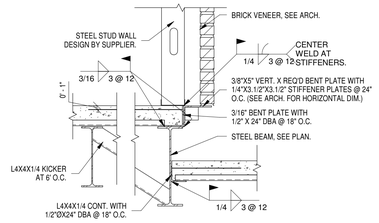

B5 SE5-12 3/4" = 1'-0"



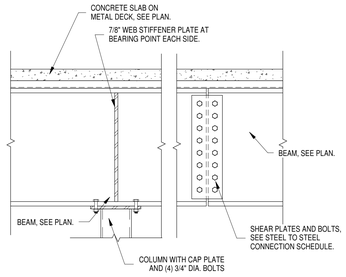

A1 SE5-12 3/4" = 1'-0"




A3 SE5-12 3/4" = 1'-0"




A4 SE5-12 3/4" = 1'-0"




A5 SE5-12 3/4" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

| | |
|---|---|
| Architectural: | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrziewski Designs - 801.582.9747 |

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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

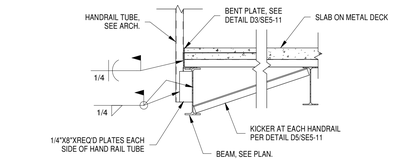
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Floor Details

SE5-12

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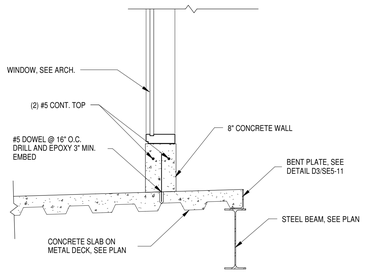


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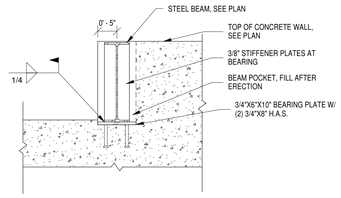


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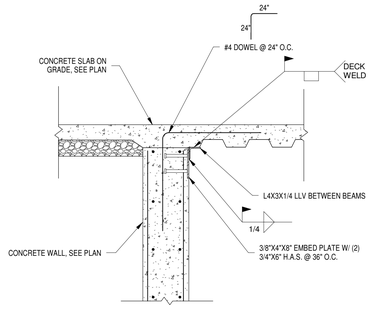


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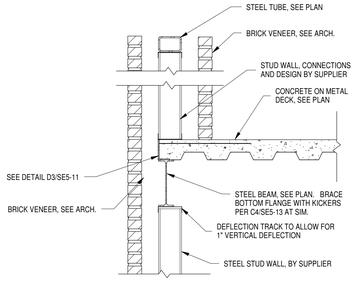


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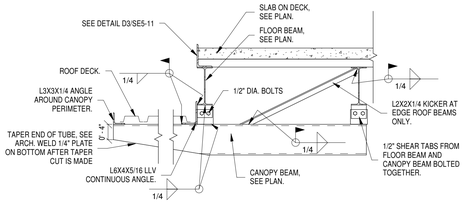
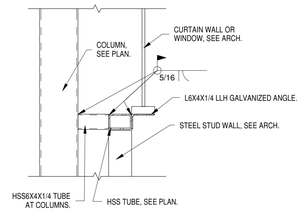
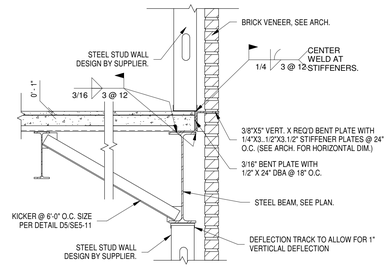



C1 SE5-13 3/4" = 1'-0"




C3 SE5-13 3/4" = 1'-0"

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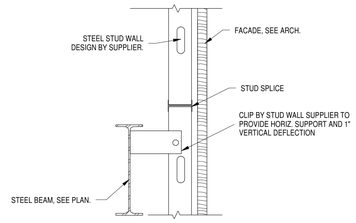


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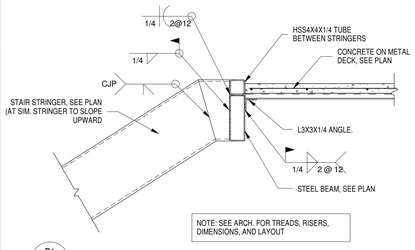
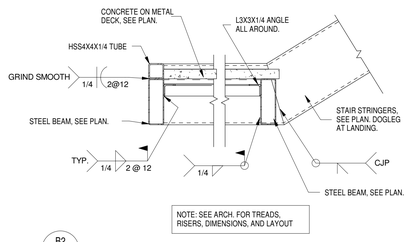



B1 SE5-13 3/4" = 1'-0"

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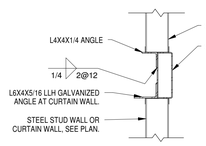


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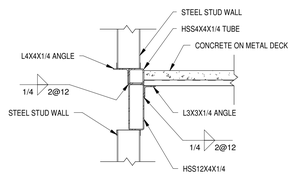


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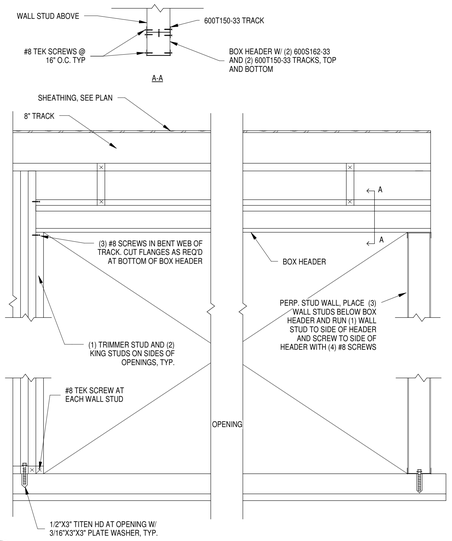
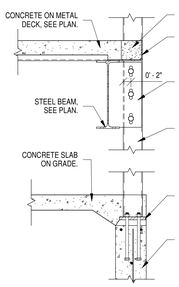
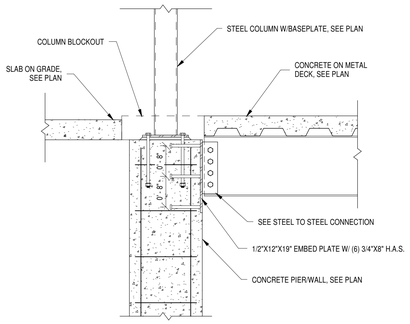



A5 SE5-13 3/4" = 1'-0"




A1 SE5-13 ELEVATOR RAIL SUPPORT COLUMN 3/4" = 1'-0"

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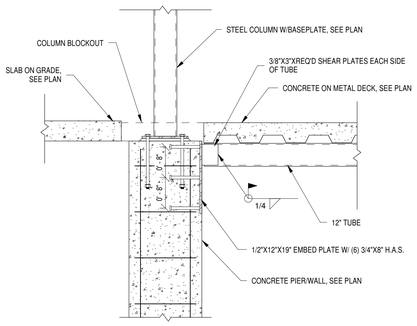
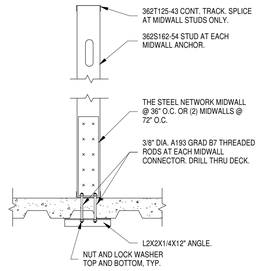



A3 SE5-13 3/4" = 1'-0"




A4 SE5-13 3/4" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


## CONSULTANTS

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| Structural: | TBSE Inc. - 801.298.8795 |
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| Food Service: | Jedrziewski Designs - 801.582.9747 |

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## SHEET DATA

Drawn By: Author

Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230

DFCM APPROVAL STAMP:

## ADDENDA

| Revision | Date |
|---|---|

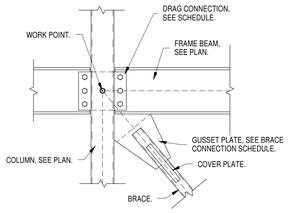
## ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

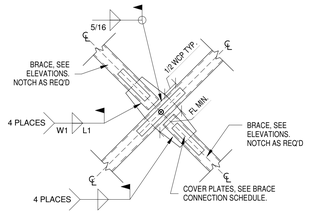
Construction Documents

Floor Details

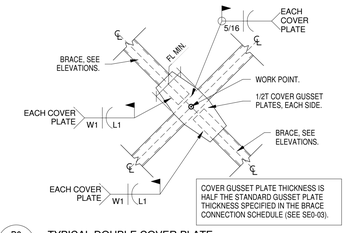
# SE5-13



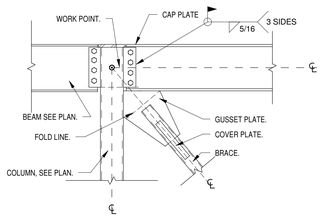

D1 SE5-14 GUSSET CONNECTION IN BEAM LINE
3/4" = 1'-0"



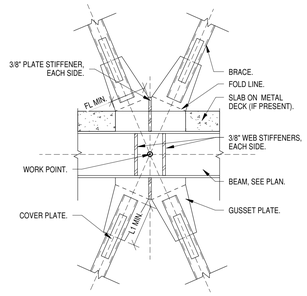

D2 SE5-14 TYPICAL BRACE KNIFE PLATE
3/4" = 1'-0"



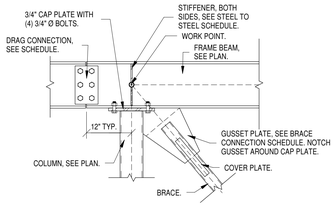

D3 SE5-14 TYPICAL DOUBLE COVER PLATE
3/4" = 1'-0"



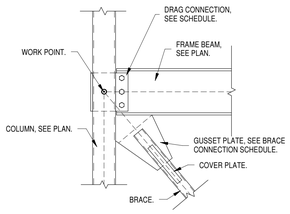

D4 SE5-14 TYPICAL GUSSET PLATE DETAIL
3/4" = 1'-0"



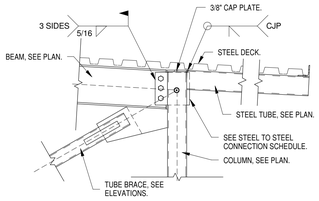

D5 SE5-14 2-STORY X-BRACE BEAM CONNECTION
3/4" = 1'-0"



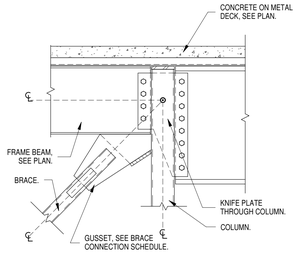

C1 SE5-14 GUSSET AT CANTELEVER BEAM
3/4" = 1'-0"




C2 SE5-14 GUSSET AT END OF BEAM LINE
3/4" = 1'-0"




C3 SE5-14 3/4" = 1'-0"

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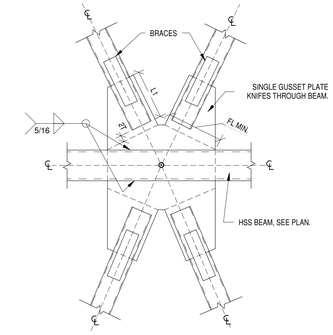
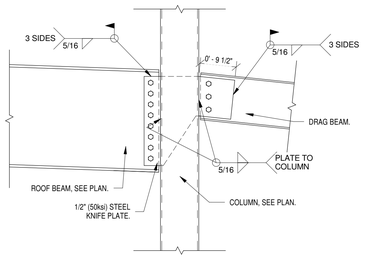
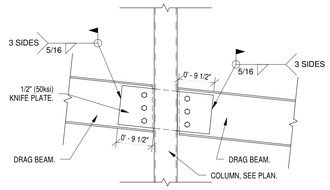


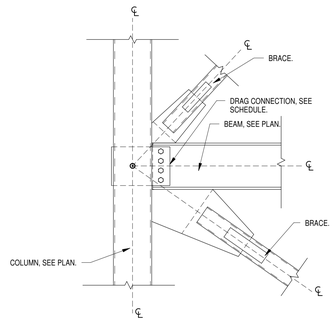

C5 SE5-14 2-STORY X-BRACE TUBE CONNECTION
3/4" = 1'-0"



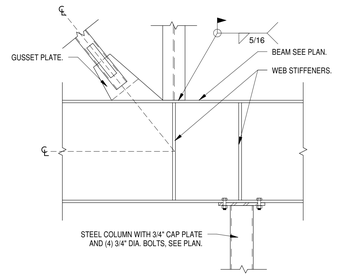

B1 SE5-14 3/4" = 1'-0"



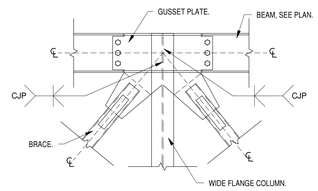

B2 SE5-14 3/4" = 1'-0"



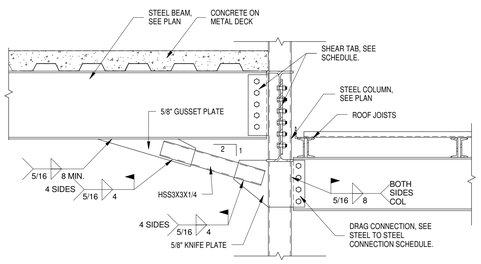

B3 SE5-14 3/4" = 1'-0"



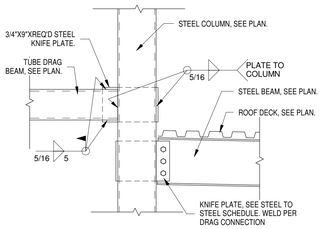

B4 SE5-14 3/4" = 1'-0"




B5 SE5-14 3/4" = 1'-0"




A1 SE5-14 DRAG KICKER
3/4" = 1'-0"

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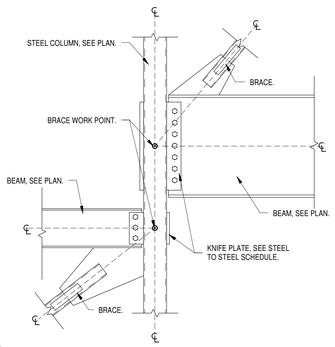


A3 SE5-14 OFFSET BRACE CONNECTION
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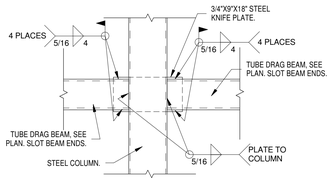


A4 SE5-14 TUBE BEAM DRAG CONNECTION
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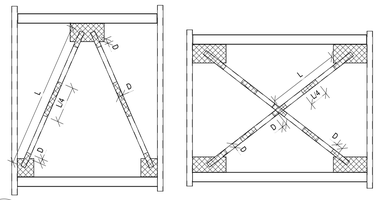

A5 SE5-14 BRACE FRAME PROTECTED ZONES
3/16" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

| | |
|---|---|
| Architectural: | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrziewski Designs - 801.582.9747 |

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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

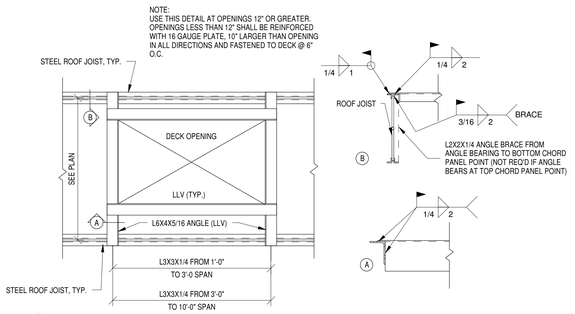
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

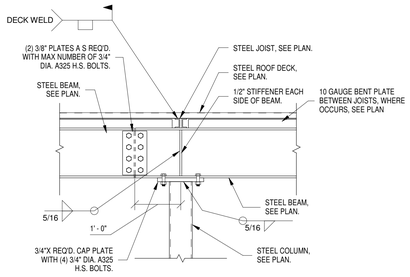
Construction Documents

Brace Details

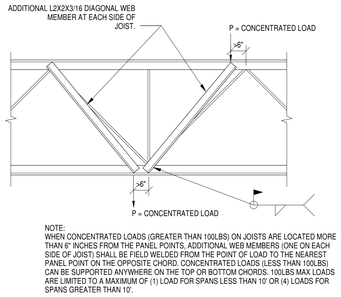
SE5-14



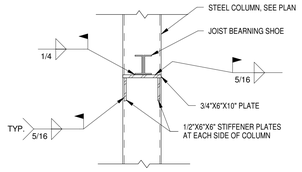

D1 SE5-21 OPENING IN ROOF DECK
3/4" = 1'-0"



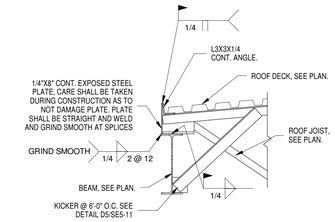

D2 SE5-21 ROOF CANTELEVER BEAM CONNECTION
3/4" = 1'-0"



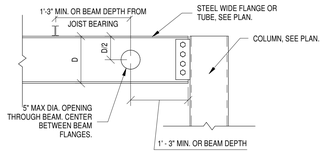

D3 SE5-21 JOIST POINT LOAD REINFORCING
3/4" = 1'-0"



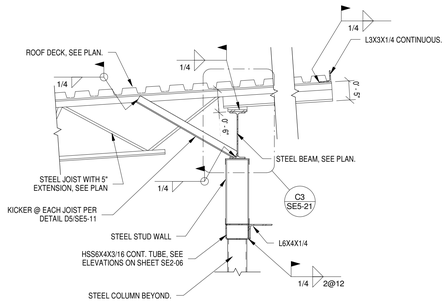

D4 SE5-21 JOIST BEARING AT COLUMN
3/4" = 1'-0"




D5 SE5-21 JOIST END FINISH DETAIL
3/4" = 1'-0"




C1 SE5-21 TYPICAL HOLES THROUGH BEAM WEB
3/4" = 1'-0"

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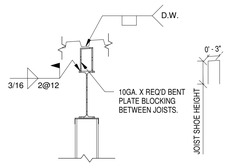


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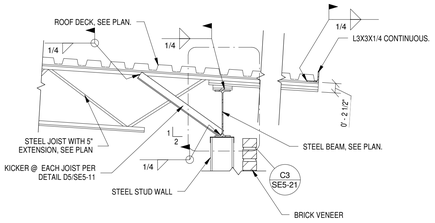
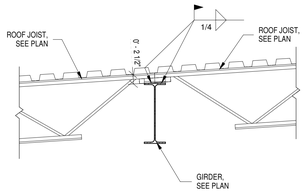
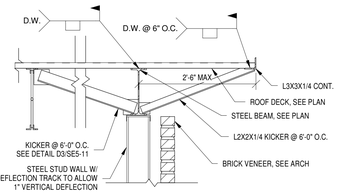


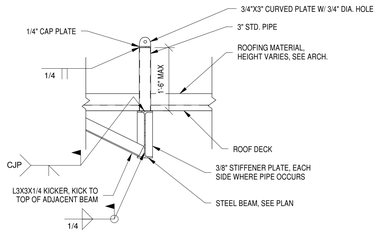

C4 SE5-21 3/4" = 1'-0"




C5 SE5-21 3/4" = 1'-0"




B1 SE5-21 3/4" = 1'-0"

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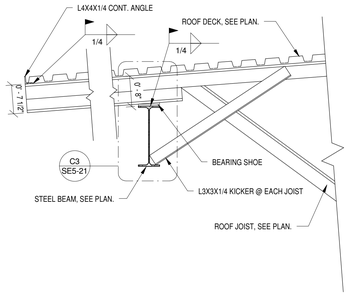
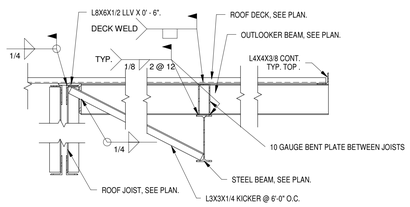



B3 SE5-21 3/4" = 1'-0"

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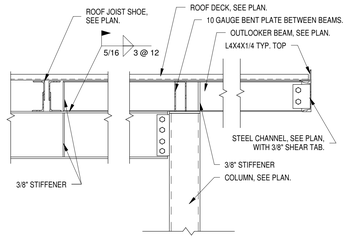
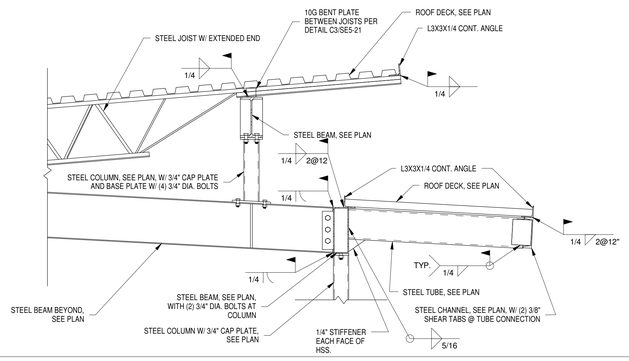
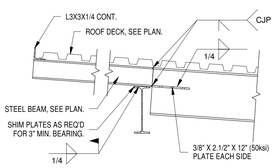


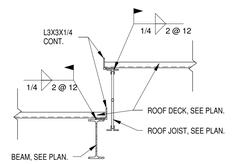

B5 SE5-21 3/4" = 1'-0"




A1 SE5-21 3/4" = 1'-0"




A3 SE5-21 3/4" = 1'-0"

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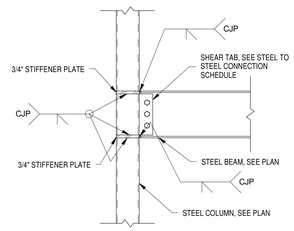


A5 SE5-21 3/4" = 1'-0"


JACOBY ARCHITECTS
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Salt Lake City
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801 363 1434
Project Number: 2014-07


CONSULTANTS

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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018
DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

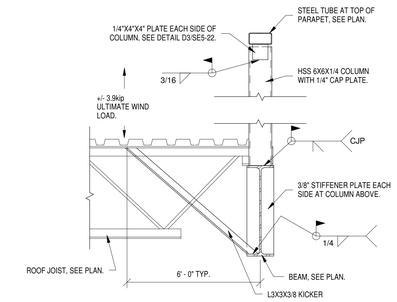
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Roof Details

SE5-21

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SE5-22
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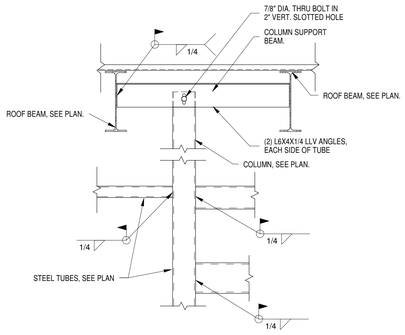


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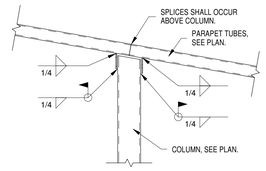


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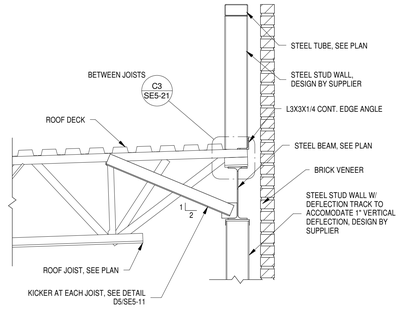
SE5-22
3/4" = 1'-0"

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SE5-22
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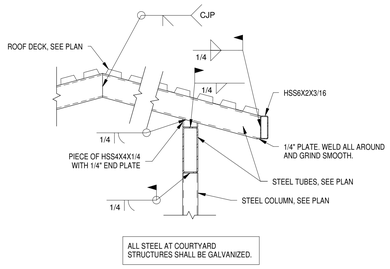


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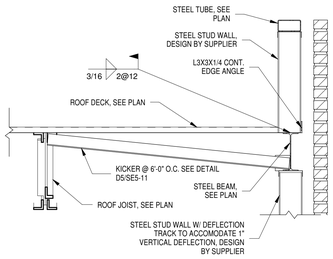
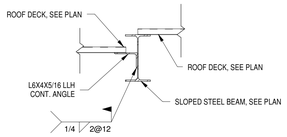
SE5-22
3/4" = 1'-0"




C1
SE5-22
3/4" = 1'-0"

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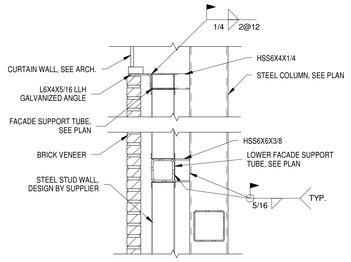


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SE5-22
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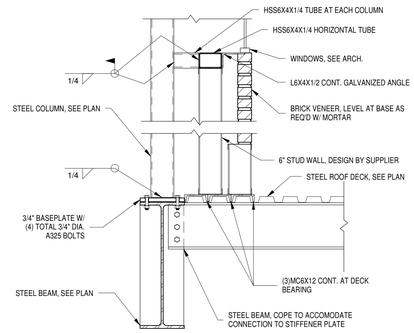


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SE5-22
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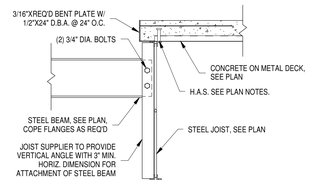


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SE5-22
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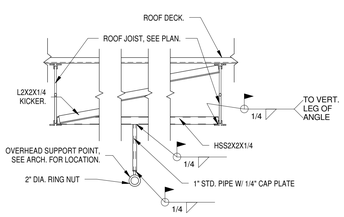


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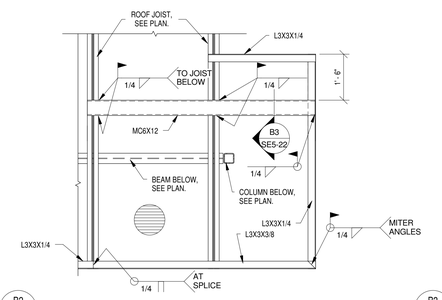


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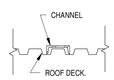


B3
SE5-22
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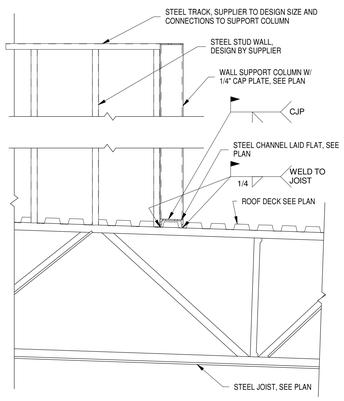


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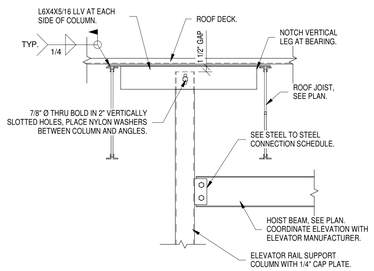


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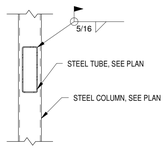


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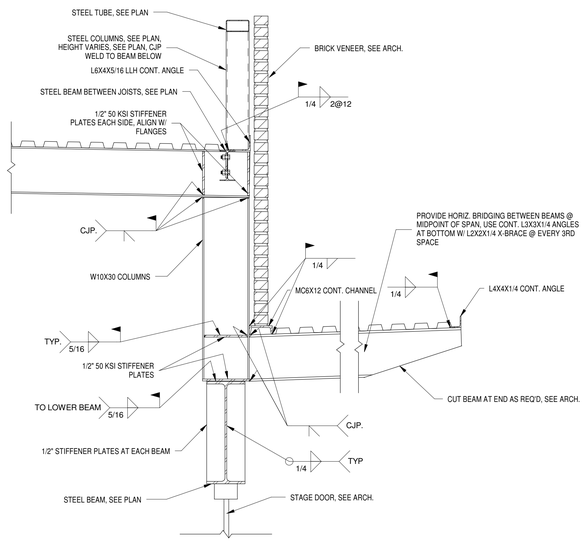


A4
SE5-22
3/4" = 1'-0"


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| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
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## PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
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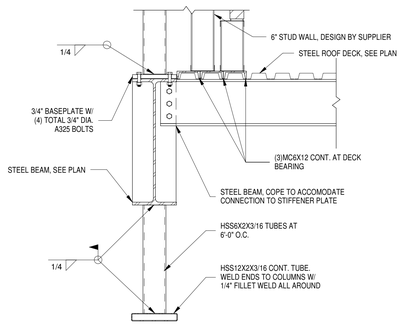
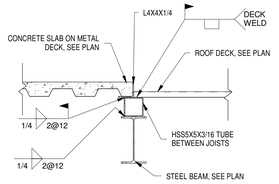
Construction Documents

# Roof Details

# SE5-22




D1 SE5-23 3/4" = 1'-0"

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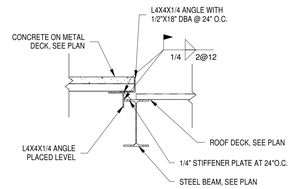


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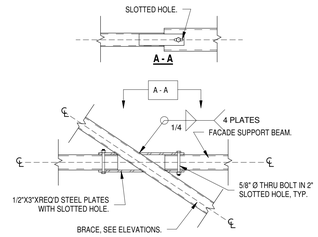


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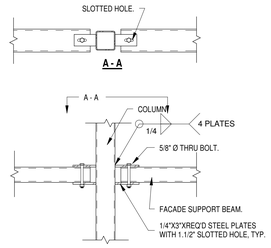


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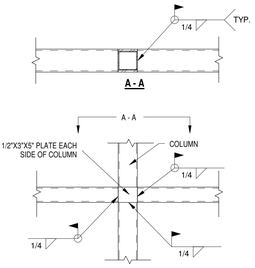


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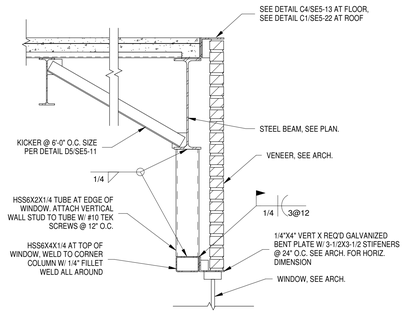


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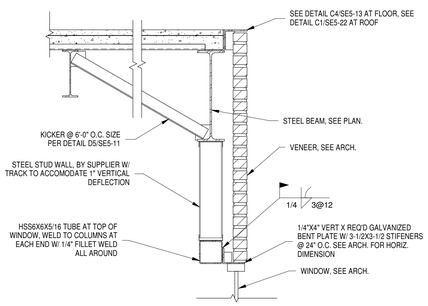


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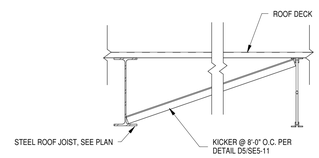


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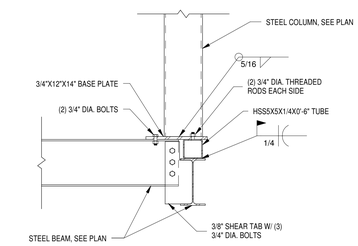
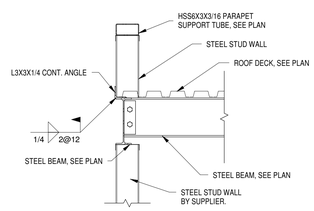



C5 SE5-23 3/4" = 1'-0"

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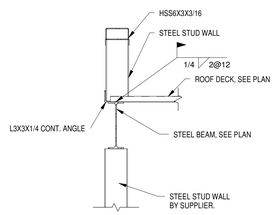


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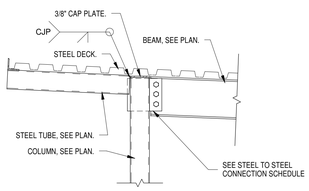


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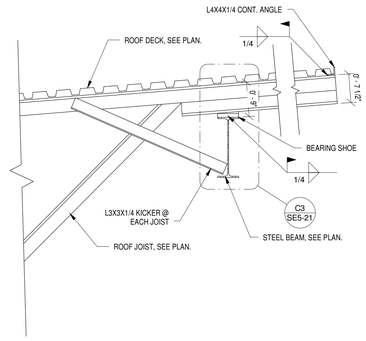


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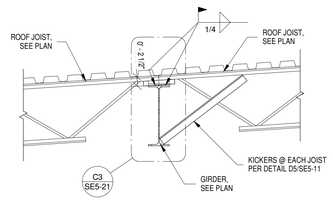
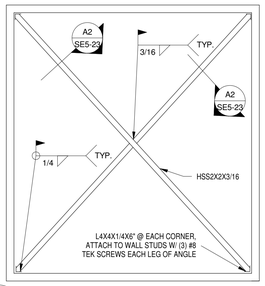
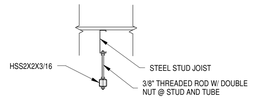



B5 SE5-23 3/4" = 1'-0"

CLUBHOUSE CEILING SUPPORT PLAN




A1 SE5-23 3/4" = 1'-0"

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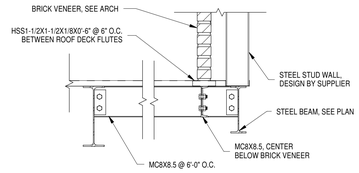


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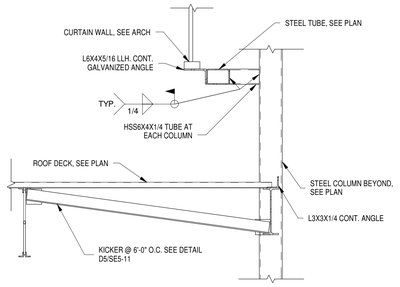


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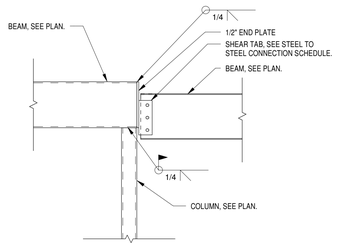


A5 SE5-23 3/4" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


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| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
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State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

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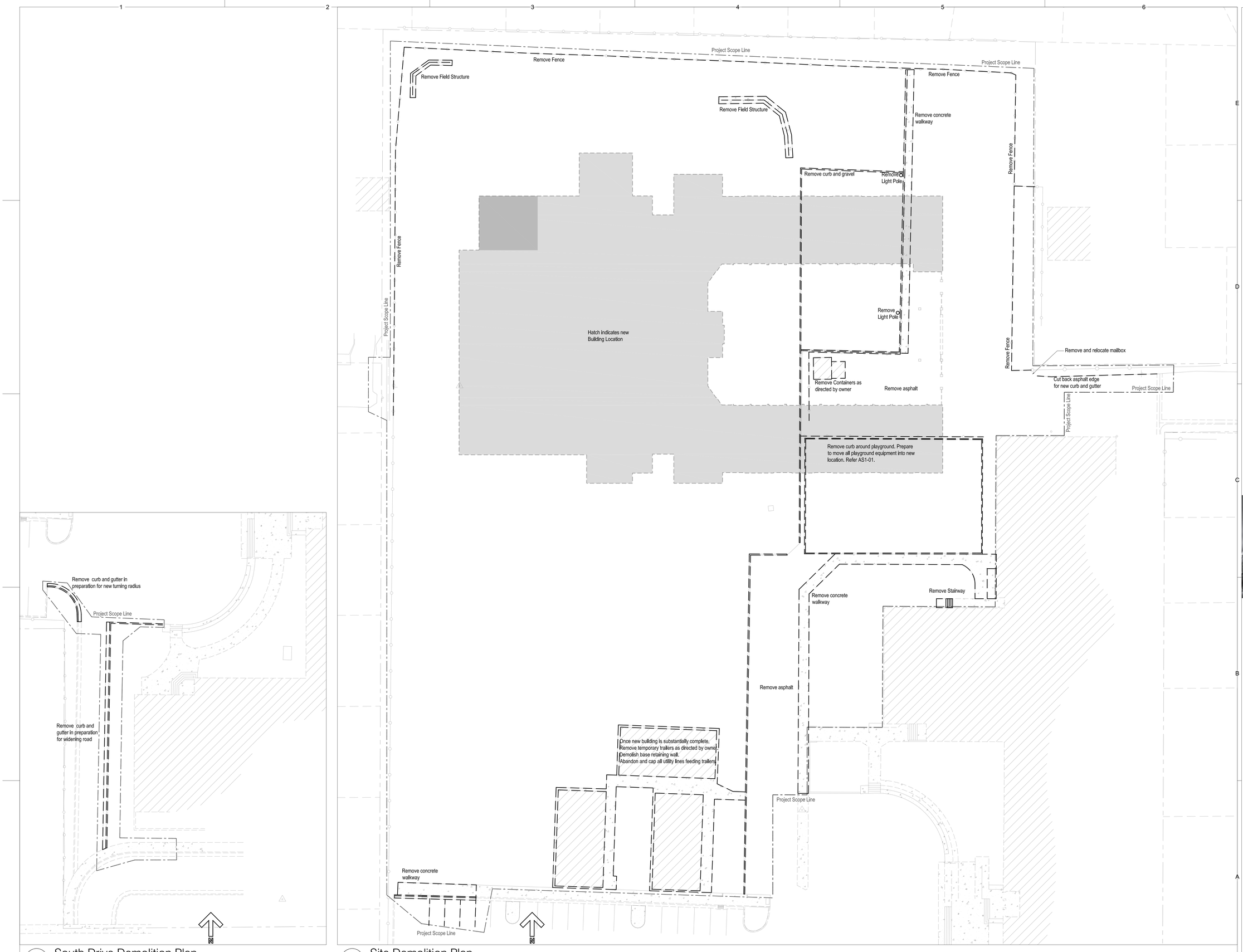
Construction Documents

Roof Details

SE5-23




A1 South Drive Demolition Plan
1" = 20'-0"

A2 Site Demolition Plan
1" = 20'-0"

DESIGN TEAM

JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

CONSULTANTS

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5/21/2015
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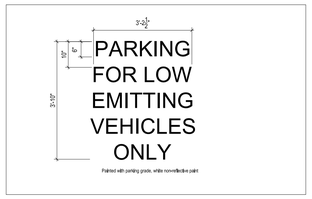
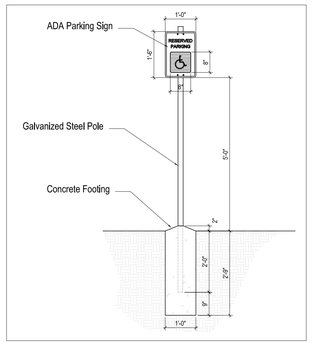
Site Demolition Plan

AS1-00

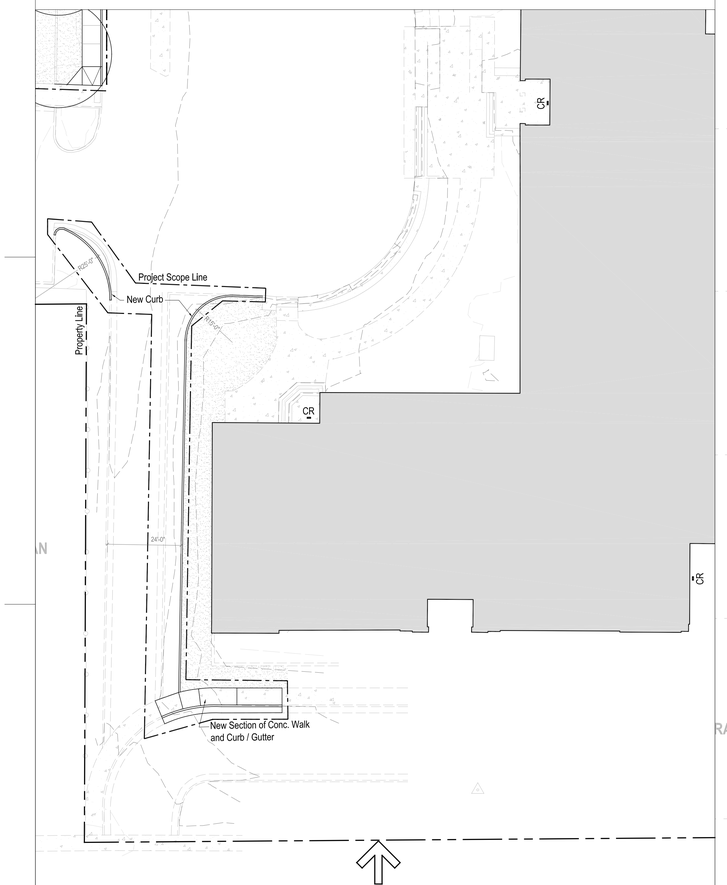
* See Sheet GI1-01 for Construction Phasing



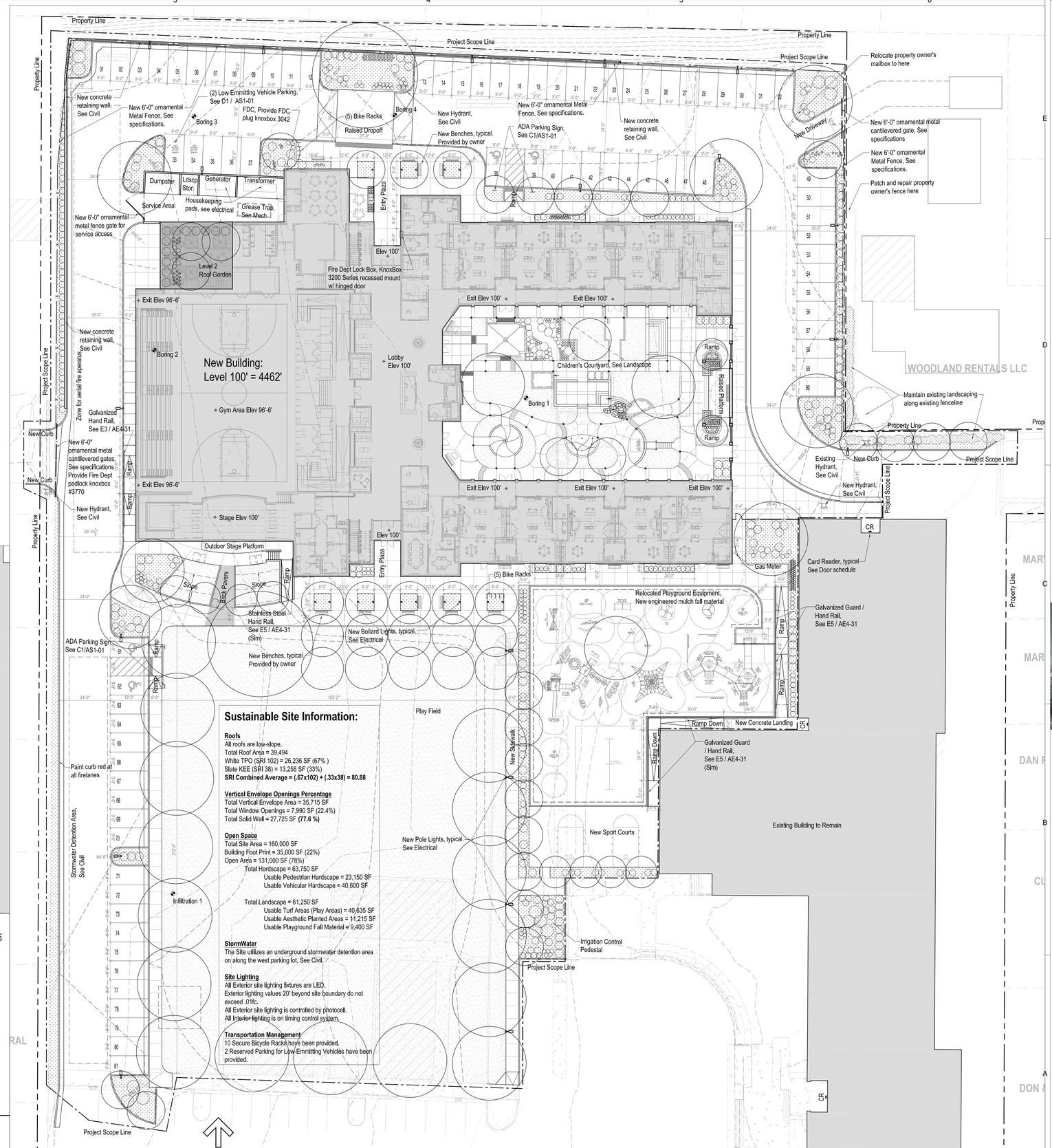

D1 Low Emmiting Vechicle Parking Detail
1/2" = 1'-0"




C1 ADA Parking Sign Detail
1/2" = 1'-0"




A1 South Drive Improvements
1" = 20'-0"




A2 Architectural Site Plan
1" = 20'-0"

DESIGN TEAM

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425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

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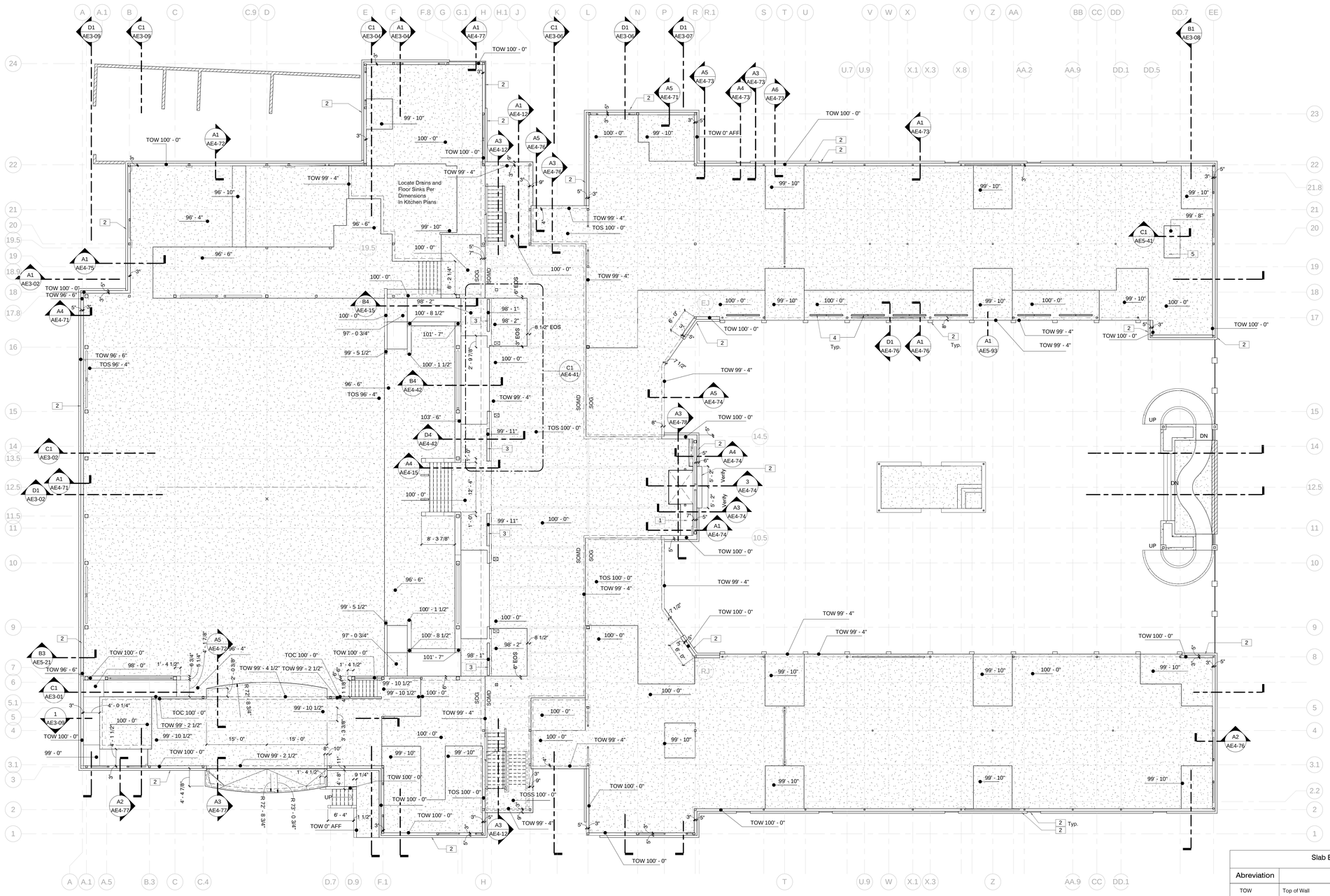
Architectural Site Plan

AS1-01

| Keynote Legend | |
|---|---|
| 1 | Metal Stud Floor Assembly With Gypsum Wall Board On Top And Bottom. Fire Caulk All Penetrations |
| 2 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 3 | Provide Recess in Slab for Sliding Door Track |
| 4 | Cast In Place Light Fixture, Coordinate Requirements With Light Fixture Manufacturer Details. |
| 5 | 3/4" Baltic Birch Plywood Floor. Provide Clear Finish |




A1 Level 1 Slab Edge Plan
3/32" = 1'-0"

| Slab Edge Legend | |
|---|---|
| Abreviation | |
| TOW | Top of Wall |
| TOC | Top of Curb |
| TOS | Top of Slab |
| TOSS | Top of Suspended Slab |
| TOH | Top of Haunch |
| SOG | Slab on Grade |
| SOMD | Slab on Metal Deck |
| DB | Deck Bearing |
| | |
| | |
| | |
| - - - - - | Line of Wall Below |

Slab Edge Legend
1/4" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
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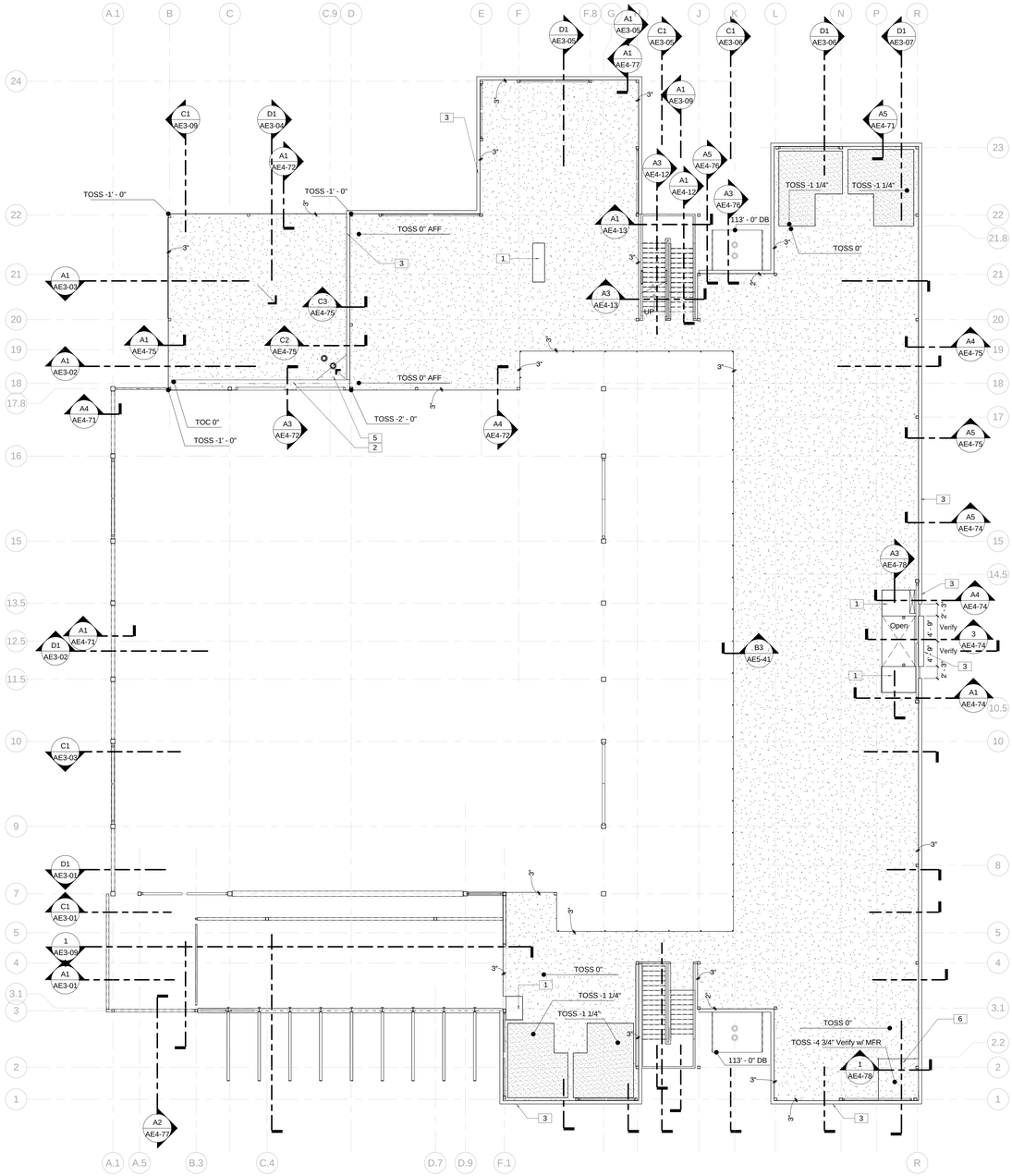
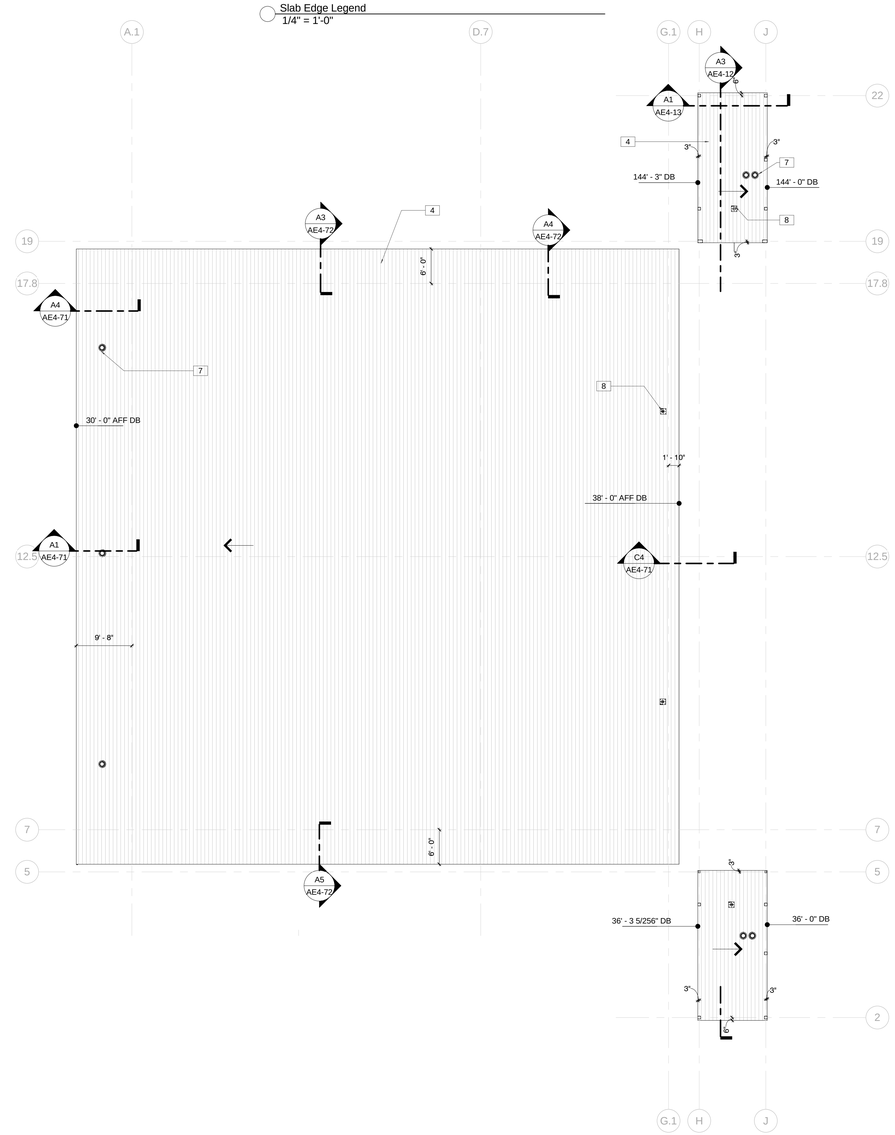
Construction Documents

Level 1 Slab Edge Plan

AE1-01




A1 Level 2 Slab Edge Plan
3/32" = 1'-0"




A3 Roof Upper Deck Edge Plan
3/32" = 1'-0"

## Slab Edge Legend

| Abreviation | |
|---|---|
| TOW | Top of Wall |
| TOC | Top of Curb |
| TOS | Top of Slab |
| TOSS | Top of Suspended Slab |
| TOH | Top of Haunch |
| SOG | Slab on Grade |
| SOMD | Slab on Metal Deck |
| DB | Deck Bearing |
| | |
| | |
| | |
| — — — — | Line of Wall Below |

Slab Edge Legend
1/4" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Metal Stud Floor Assembly With Gypsum Wall Board On Top And Bottom. Fire Caulk All Penetrations |
| 2 | Concrete Curb |
| 3 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 4 | Metal Roof Deck Refer to Structural |
| 5 | Concrete Cricket Sloped To Fall towards Roof Drain Location |
| 6 | Recessed Slab for Audiometric Booth. Coordinate Dimensions and Depth with Booth Manufacturer. |
| 7 | Roof Drain Refer To Plumbing Drawings |
| 8 | Galvanized Fall Protection Tie In Point. Locate Galvanized Dip Hole At Bottom Of Assembly - See Structural For Connection. See Architectural Roof Plan For Locations. |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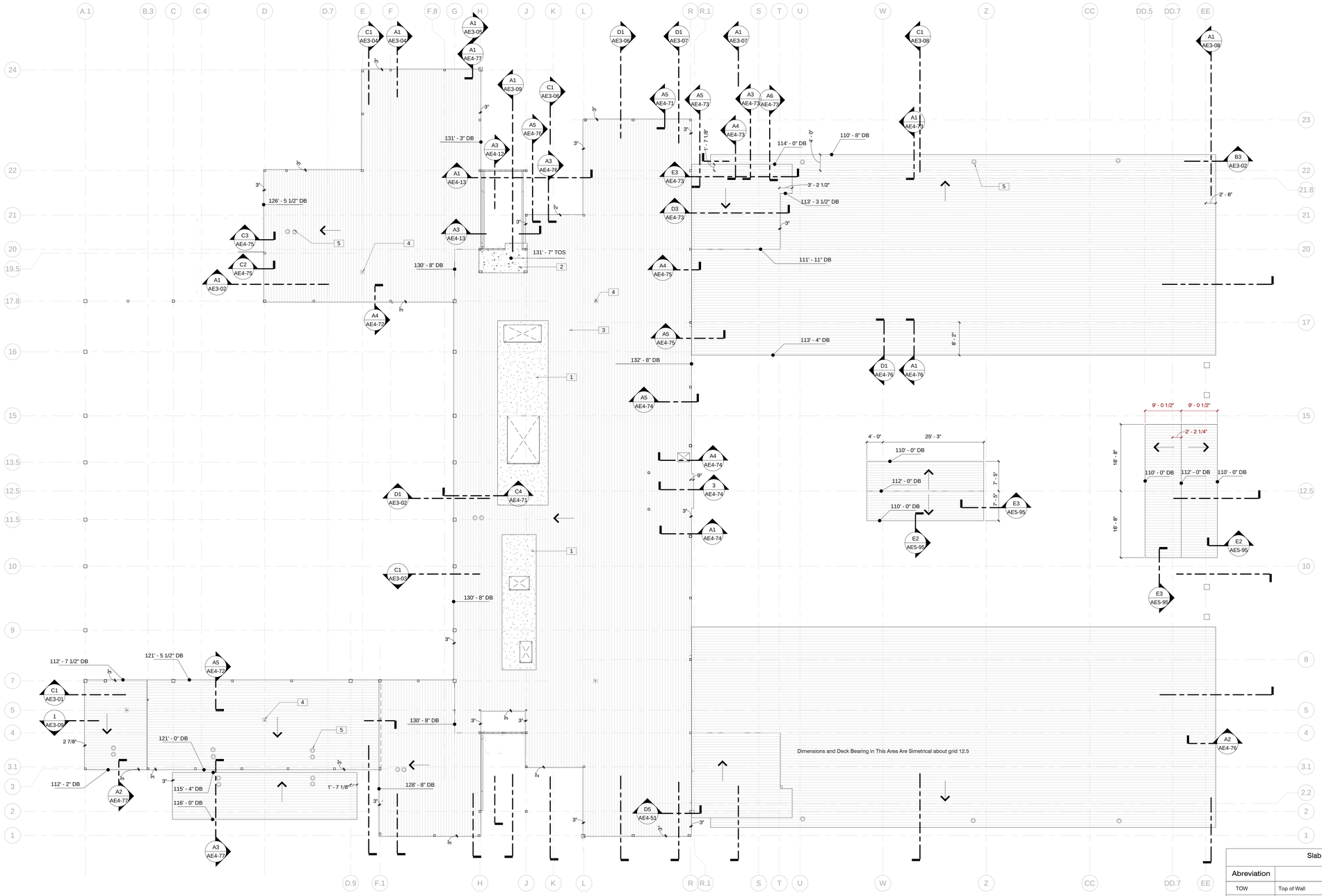
Level 2 Slab Edge Plan
Upper Deck Edge Plan

AE1-02

| Keynote Legend | |
|---|---|
| 1 | Cast In Place Concrete Equipment Pad 6" Thick Minimum Above Flutes. Refer To Mechanical For Size. |
| 2 | Composite Metal Deck refer To Structural |
| 3 | Metal Roof Deck Refer to Structural |
| 4 | Galvanized Fall Protection Tie In Point. Locate Galvanized Dip Hole At Bottom Of Assembly - See Structural For Connection. See Architectural Roof Plan For Locations. |
| 5 | Roof Drain Refer To Plumbing Drawings |




A1 Roof Deck Edge Plan
3/32" = 1'-0"

| Slab Edge Legend | |
|---|---|
| Abreviation | |
| TOW | Top of Wall |
| TOC | Top of Curb |
| TOS | Top of Slab |
| TOSS | Top of Suspended Slab |
| TOH | Top of Haunch |
| SOG | Slab on Grade |
| SOMD | Slab on Metal Deck |
| DB | Deck Bearing |
| | |
| | |
| | |
| — — — — | Line of Wall Below |

Slab Edge Legend
1/4" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

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9/21/2015
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PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
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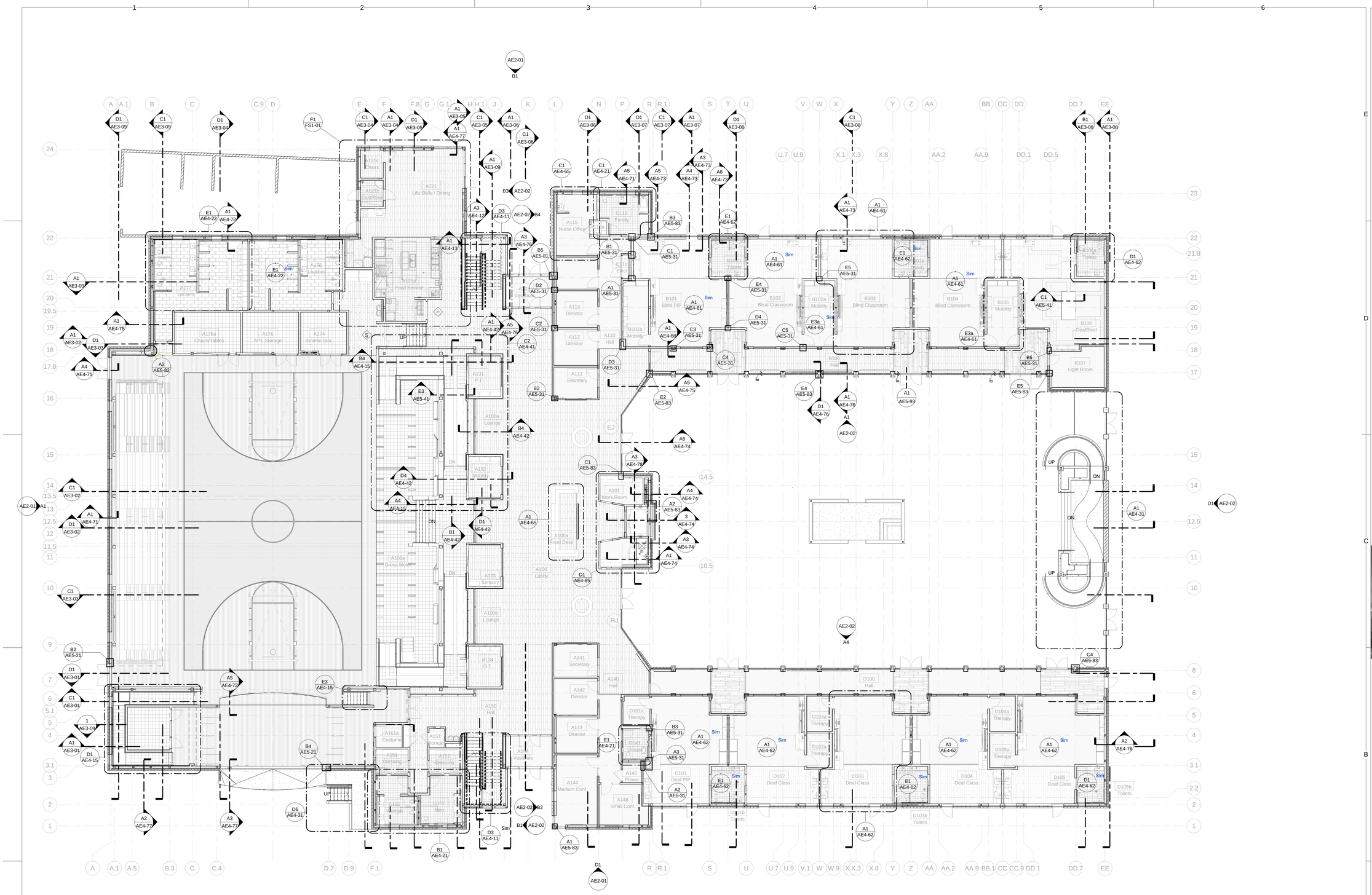
Roof Deck Edge Plan

AE1-03




A1 Level 1 Key Plan
3/32" = 1'-0"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4110 State Office Building | Salt Lake City, Utah 84114-1204 | 801-538-3018

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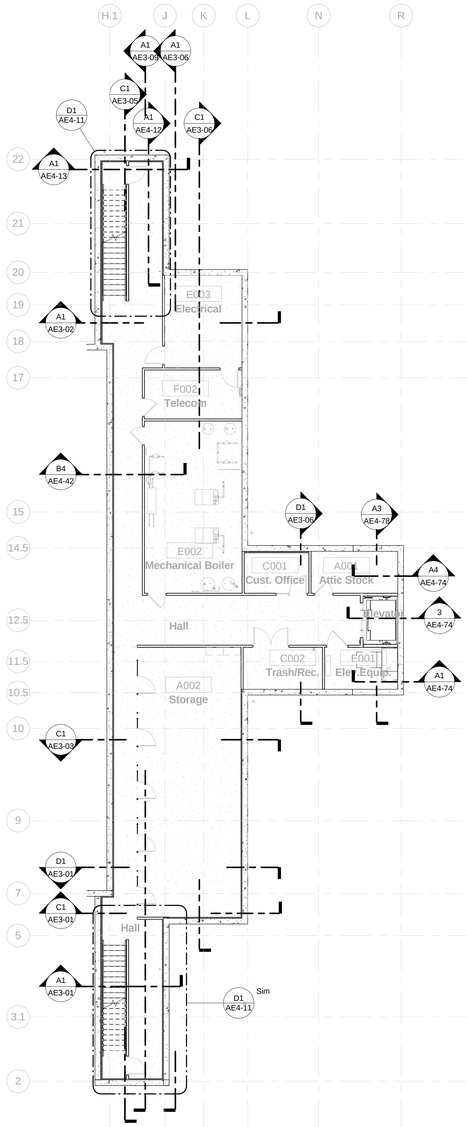
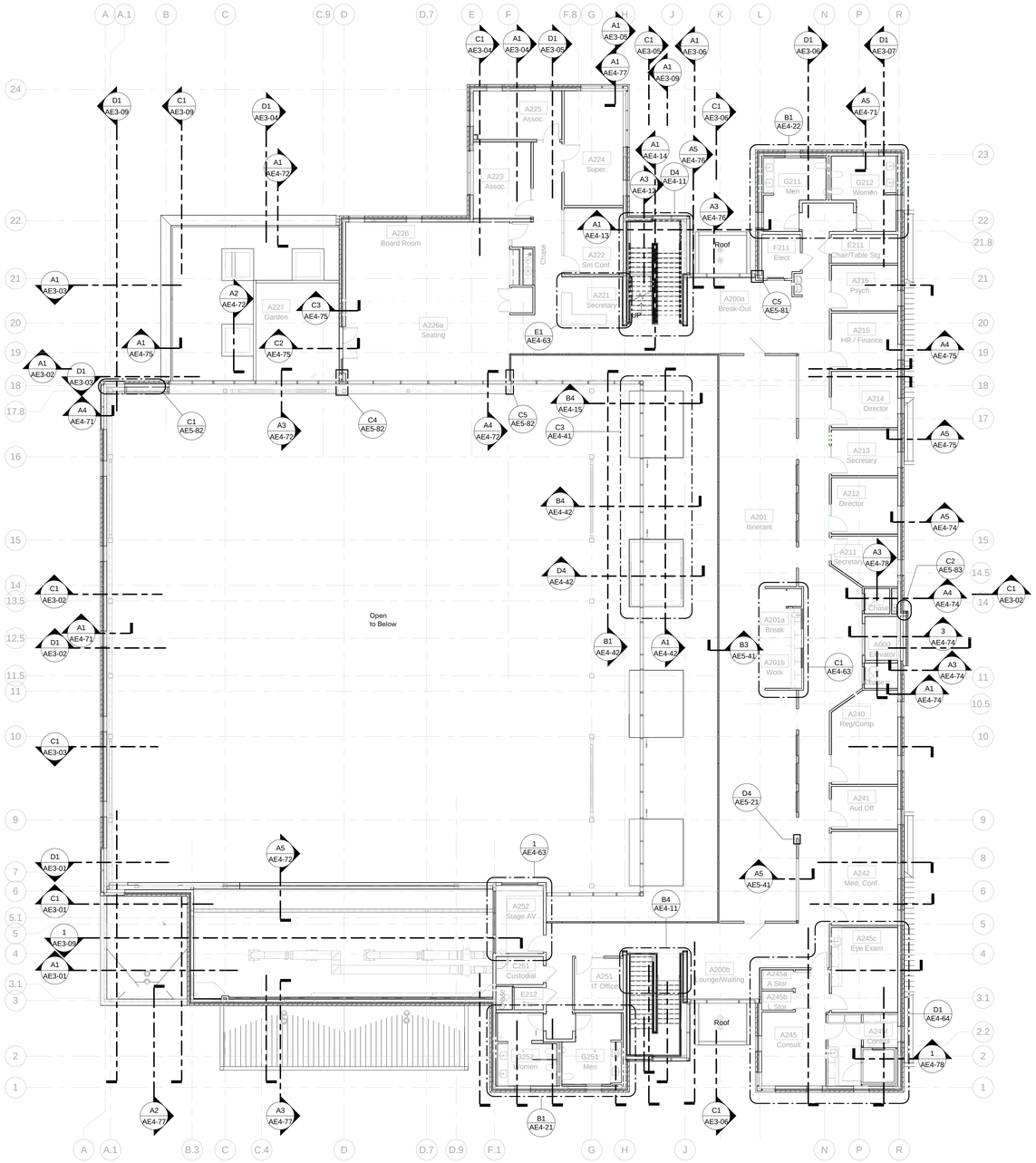
Level 1 Key Plan

# AE1-11




A1 Level B Key Plan
3/32" = 1'-0"




A3 Level 2 Key Plan
3/32" = 1'-0"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Construction Documents

Level B Key Plan
Level 2 Key Plan

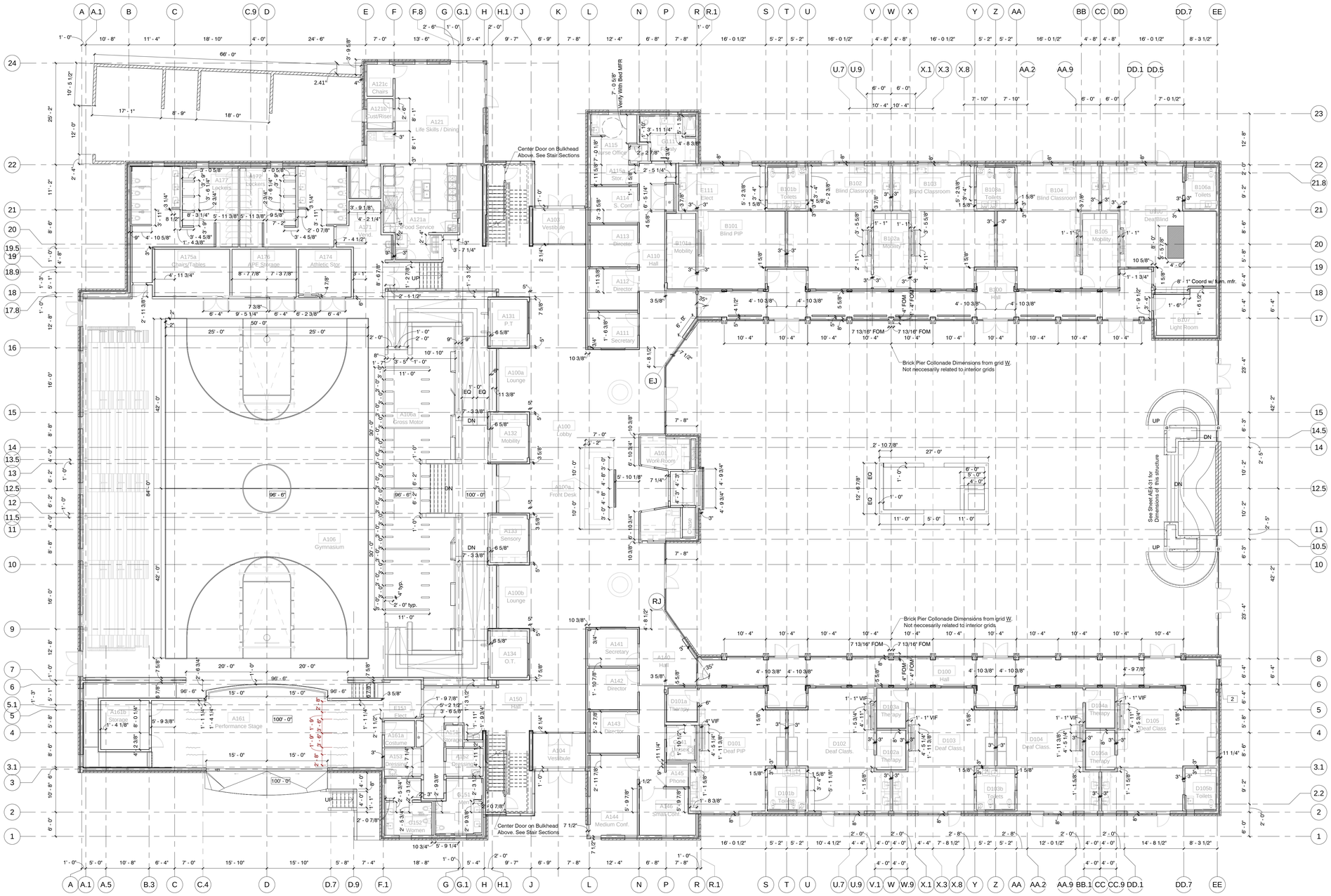
# AE1-12

**General Notes:**

1. All Dimensions are to face of stud, unless otherwise noted.

2. All Exterior openings are dimensioned on Building Elevations.

3. Unless otherwise noted, All Interior doors are to be located such that the outer edge of the hinge-side jamb is 3" away from the adjacent finished surface. Refer E2 / AE5-21




A1 Level 1 Setting Out Plan
3/32" = 1'-0"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**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

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Level 1 Setting Out Plan

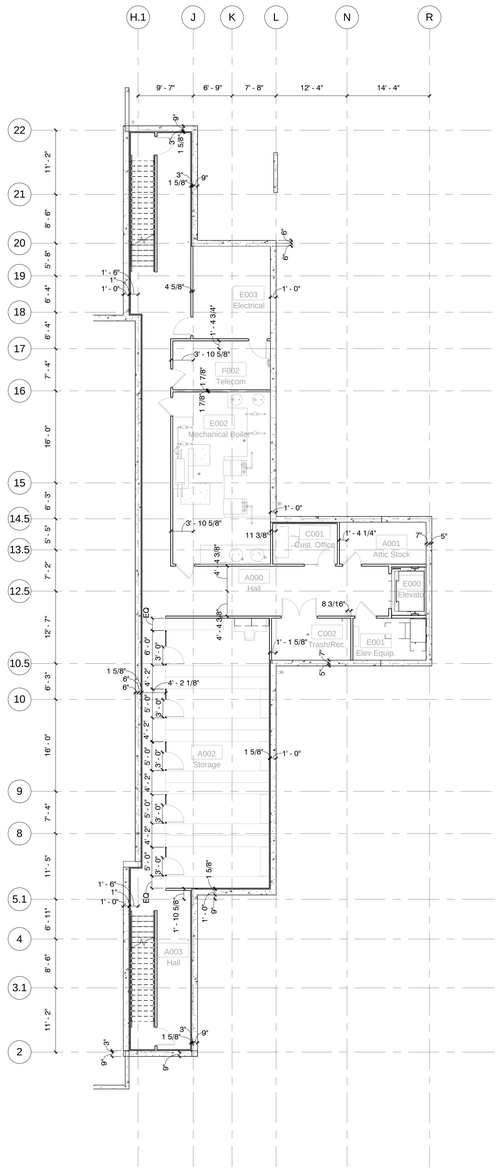
AE1-21

**General Notes:**

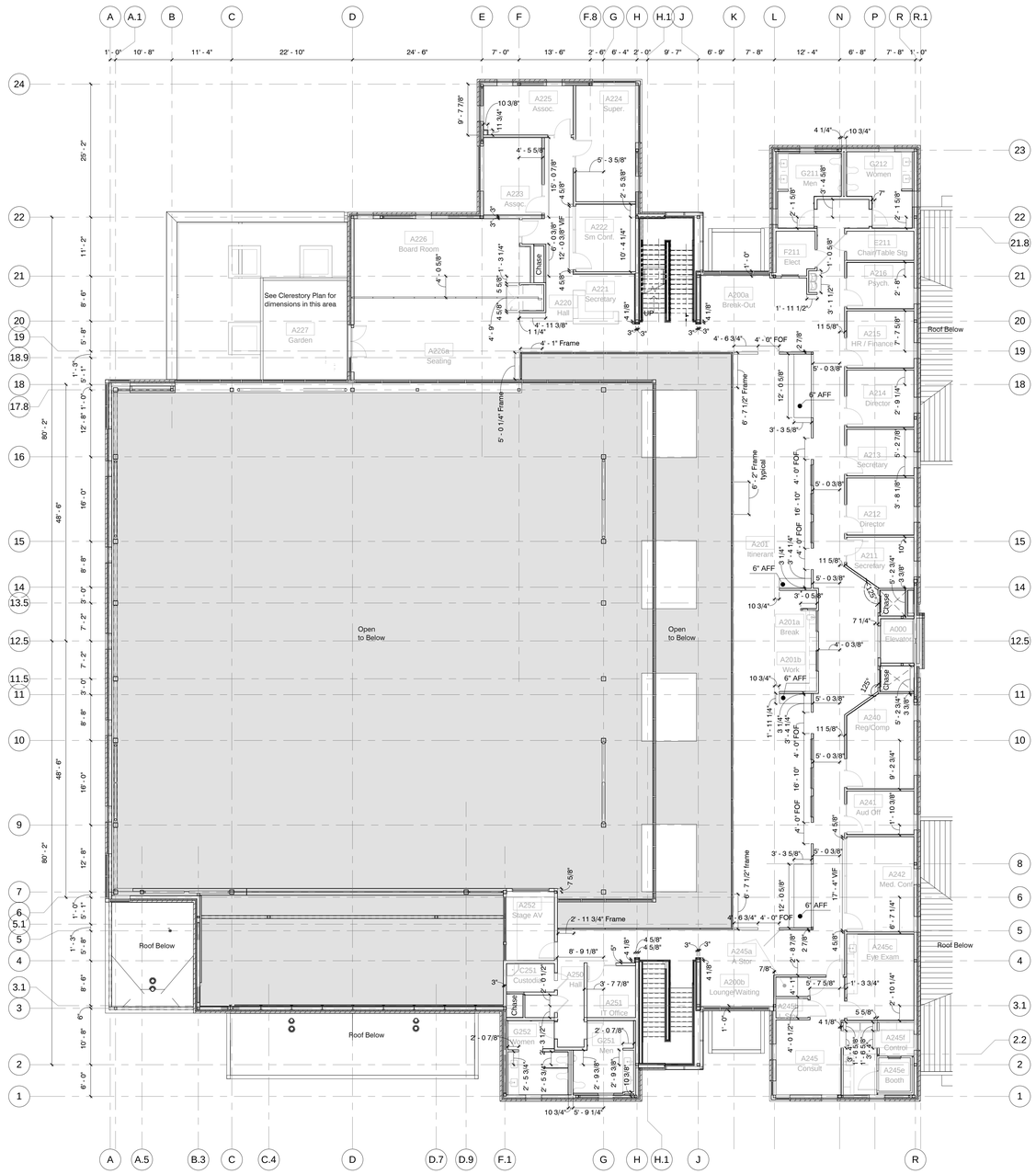
1. All Dimensions are to face of stud, unless otherwise noted.

2. All Exterior openings are dimensioned on Building Elevations.

3. Unless otherwise noted, All Interior doors are to be located such that the outer edge of the hinge-side jamb is 3" away from the adjacent finished surface. Refer E2 / AE5-21




A1 Level B Setting Out Plan
3/32" = 1'-0"




A3 Level 2 Setting Out Plan
3/32" = 1'-0"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Utah 84111
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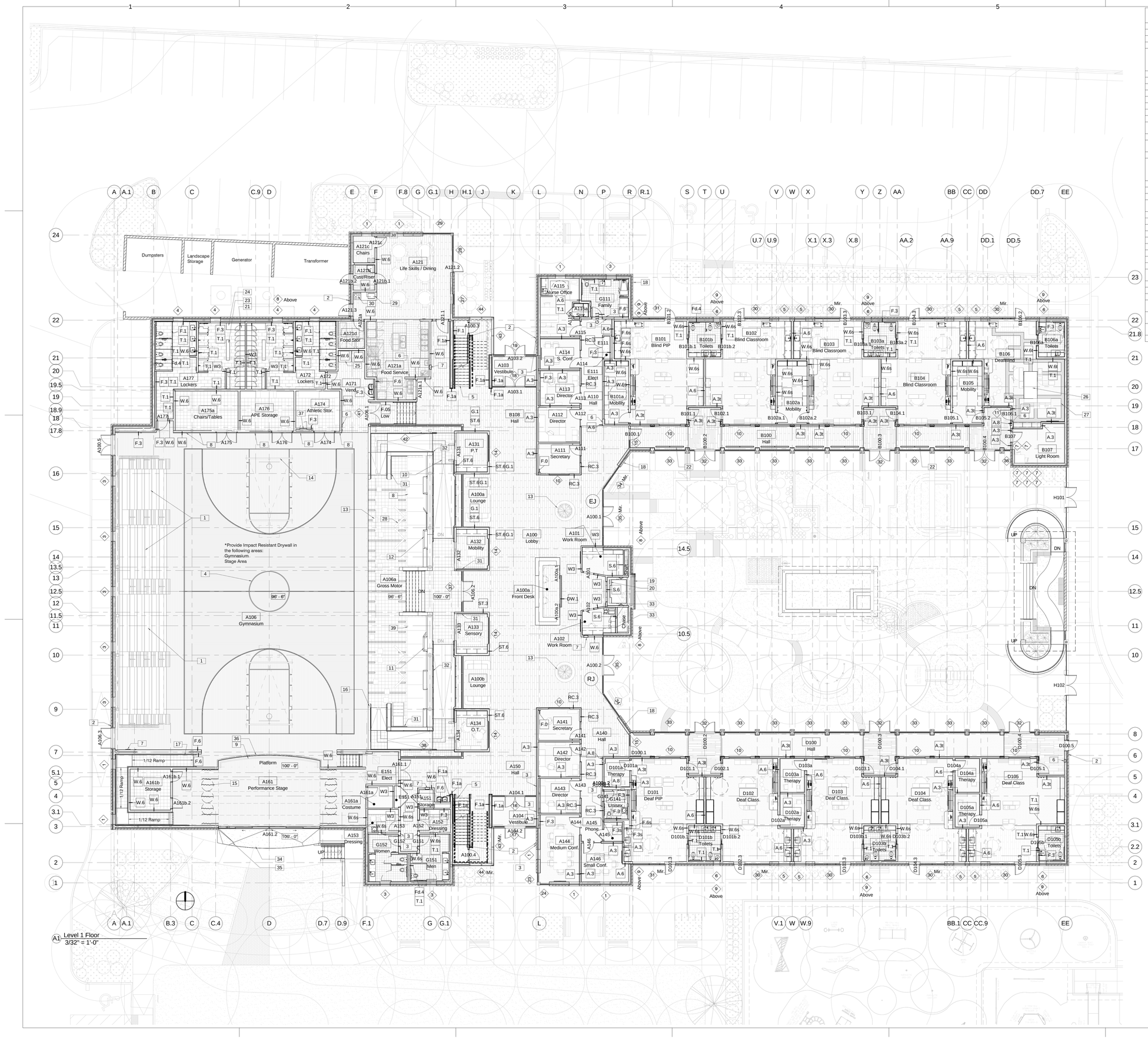
Construction Documents

Level B Setting Out Plan
Level 2 Setting Out Plan

AE1-22




## Keynote Legend

| | |
|---|---|
| 1 | Telescoping Gymnasium Seating Provided By Owner |
| 2 | Card Reader, See Electrical |
| 3 | Door Operator Push Button |
| 4 | |
| 5 | Wall Mount Stainless Steel Retractable Belt Barrier with Removable Mounting Plate. Provide 10' Red Strap Indicating "Authorized Access Only,+ Provide Magnetic Belt End. Basis of Design: Visiontron Retracta-Belt. |
| 6 | Recessed Fire Extinguisher Cabinet |
| 7 | Recessed AED Cabinet |
| 8 | Athletic Padding Provided By Owner. Provide Backing As Required |
| 9 | Flexible Walkway |
| 10 | Pattern In Resilient Flooring |
| 11 | Stage Curtains Furnished By Owner, Installed By Contractor |
| 12 | Climbing Walls Furnished By Owner, Installed By Contractor |
| 13 | Furniture Provided By Owner |
| 14 | Forward Folding And Adjustable Height Basketball Standard Furnished by Owner, Installed by Contractor. BOD Porter B-950 |
| 15 | Stage Curtain and Track. Furnished By Owner, Installed By Contractor |
| 16 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |
| 17 | 1 1/2" Pipe Handrail. Painted |
| 18 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 19 | Metal Composite Wall Panel |
| 20 | Steel Pit Ladder |
| 21 | 2 Tier Lockers Provided By Owner |
| 22 | Cast In Place Light Fixture, Coordinate Requirements With Light Fixture Manufacturer Details. |
| 23 | Locker Room Bench Provided By Owner |
| 24 | ADA Locker Room Bench Provided By Owner |
| 25 | Vending Machines Provided By Owner |
| 26 | 3/4" Baltic Birch Plywood Floor. Provide Clear Finish |
| 27 | 12" TEXTURED RESILIENT STRIP INLAYED IN CARPET |
| 28 | Balance Beams Provided By Owner |
| 29 | Hood Furnished By Owner, Installed By Contractor |
| 30 | Range Provided By Owner |
| 31 | 1-1/2" Wood Handrail |
| 32 | Stainless Steel Handrails with 1-1/2" dia. Top Rail & 1" Dia. Children's Rail. |
| 33 | 24"X24" Mud-In Type, Painted Access Door |
| 34 | Tactile Warning Surface |
| 35 | Floor Drain, Refer to Plumbing Drawings |
| 36 | Heavy Duty Vinyl Wrapped Over 2" High Density Padding Over Continuous 2 X Blocking Curved Around Slab Edge |
| 37 | Flush Stainless Steel Valve Access Door, Located to Provide Access to Plumbing Valves. Typical All Toilets. |
| 38 | Locate AV Equipment Here - ID and Note Junction Box for Power/Data, See Electrical |
| 39 | |


JACOBY ARCHITECTS

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Salt Lake City
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## PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

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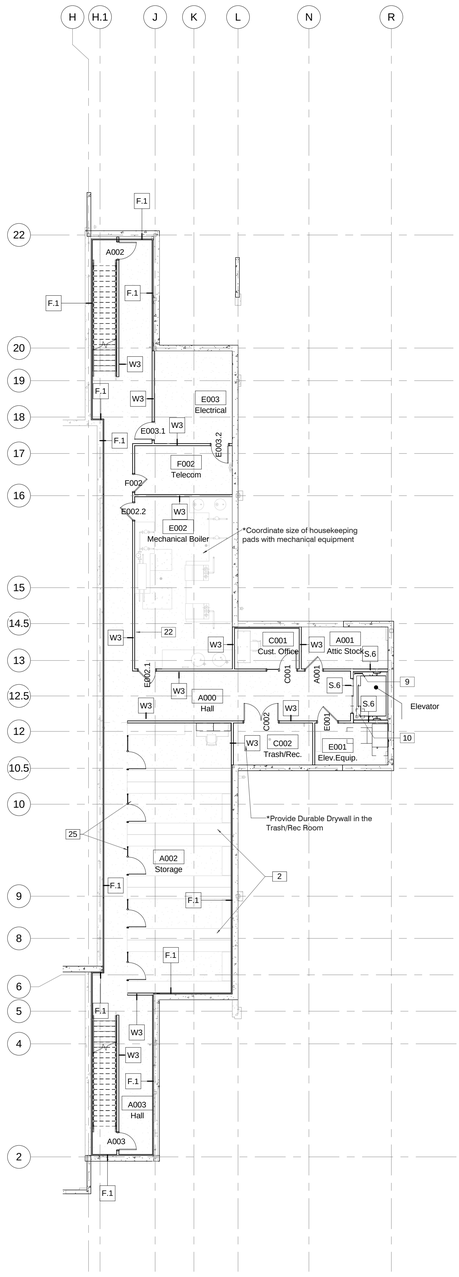
Construction Documents

# Level 1 Floor Plan

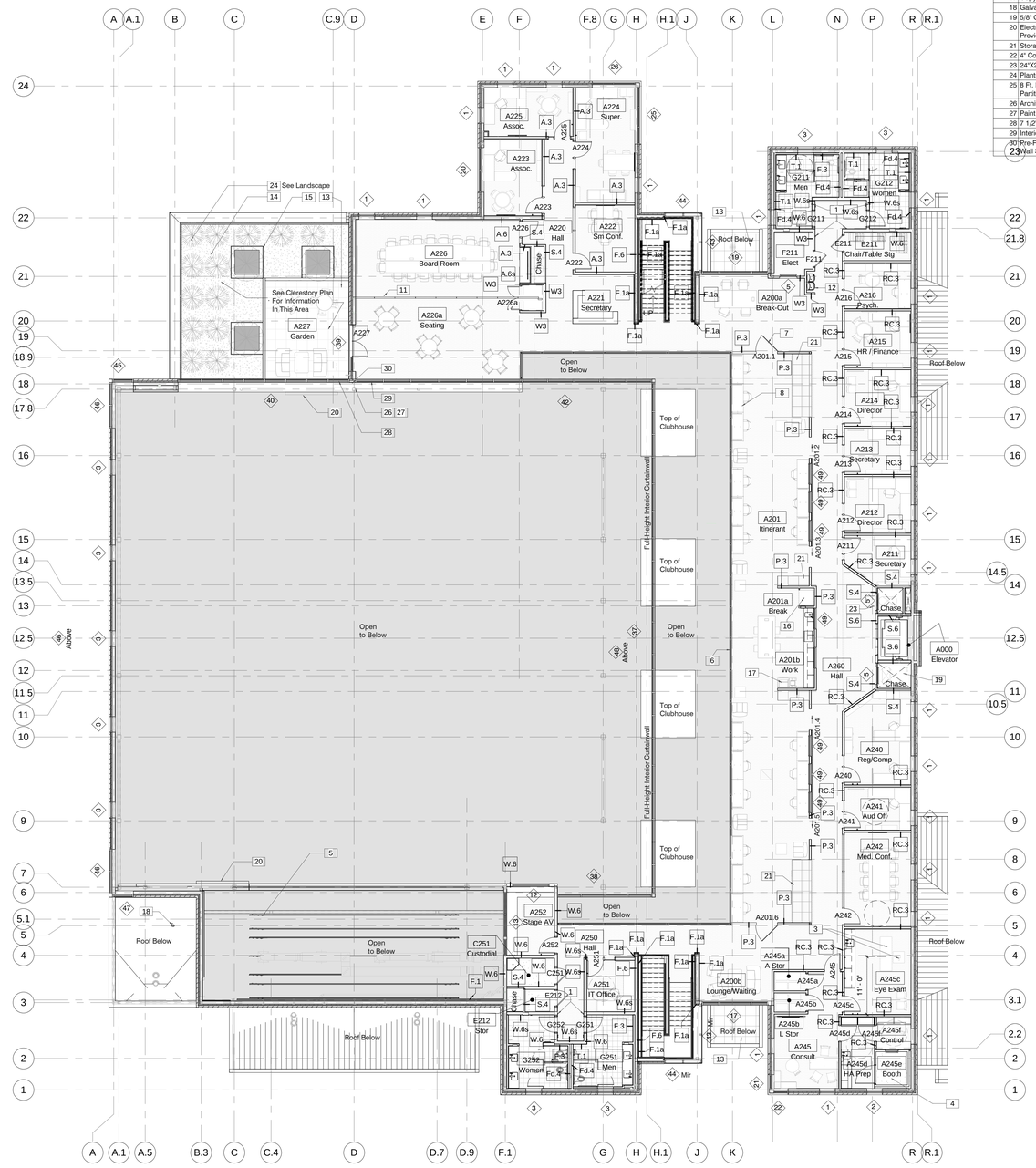
# AE1-31

## Keynote Legend

| | |
|---|---|
| 1 | Door Operator Push Button |
| 2 | |
| 3 | Relocated Eye Exam Equipment Furnished By Owner, Installed By Contractor. |
| 4 | Audiometric Test Booths Furnished By Owner Installed By Contractor |
| 5 | Stage Curtain and Track. Furnished By Owner, Installed By Contractor |
| 6 | Decorative Metal Railing with Stainless Steel Support Frame And Wood Grille Infill Panels |
| 7 | Custom Cantilevered Wood Sliding Door |
| 8 | Furniture Provided By Owner |
| 9 | Galvanized Lintel, Refer To Structural Drawings for Size |
| 10 | 18" X 18" X 12" Deep Sump Pit |
| 11 | Single Panel Operable Partition |
| 12 | Drinking Fountains And Water Coolers |
| 13 | 24" Square Concrete Pavers on Pedestals |
| 14 | Vegetated Roof Assembly: Crushed Stone Over Planting Media Over Water Retention Layer Over 6" Xps Insulation Over Root Barrier Over Cold Fluid Applied Waterproofing |
| 15 | 6' X 6' Planter Box Furnished By Owner, Installed By Contractor. Provide Holes In Base Of Planter Box As Required For Irrigation And Drainage. |
| 16 | Refrigerator Provided By Owner |
| 17 | Copy Machine Provided By Owner |
| 18 | Galvanized roof anchor |
| 19 | 5/8" Gypsum Board On Metal Stud Framing |
| 20 | Electronic Scoreboard Furnished By Owner, Installed By Contractor. Provide backing as required |
| 21 | Storage Locker Provided By Owner |
| 22 | 4" Concrete Slab On Grade with Thickened Edge at Perimeter |
| 23 | 24"X24" Mud-In Type, Painted Access Door |
| 24 | Plants |
| 25 | 8 Ft. High Wire Mesh Partition With 3'-0" X 8'-0" Gates. Brace Top Of Partition To Building Structure Above. |
| 26 | Architecturally Exposed Structural Steel Framing |
| 27 | Paint Exposed Steel Member, Typical |
| 28 | 7 1/2" Conventionally Glazed Aluminum Curtainwall System |
| 29 | Interior Aluminum Framed Glazing System with Adjustable Throat |
| 30 | Pre-Finished .461" Aluminum Brake Shape to Match Aluminum Curtain Wall System |




A1 Level B Floor
3/32" = 1'-0"




A3 Level 2 Floor
3/32" = 1'-0"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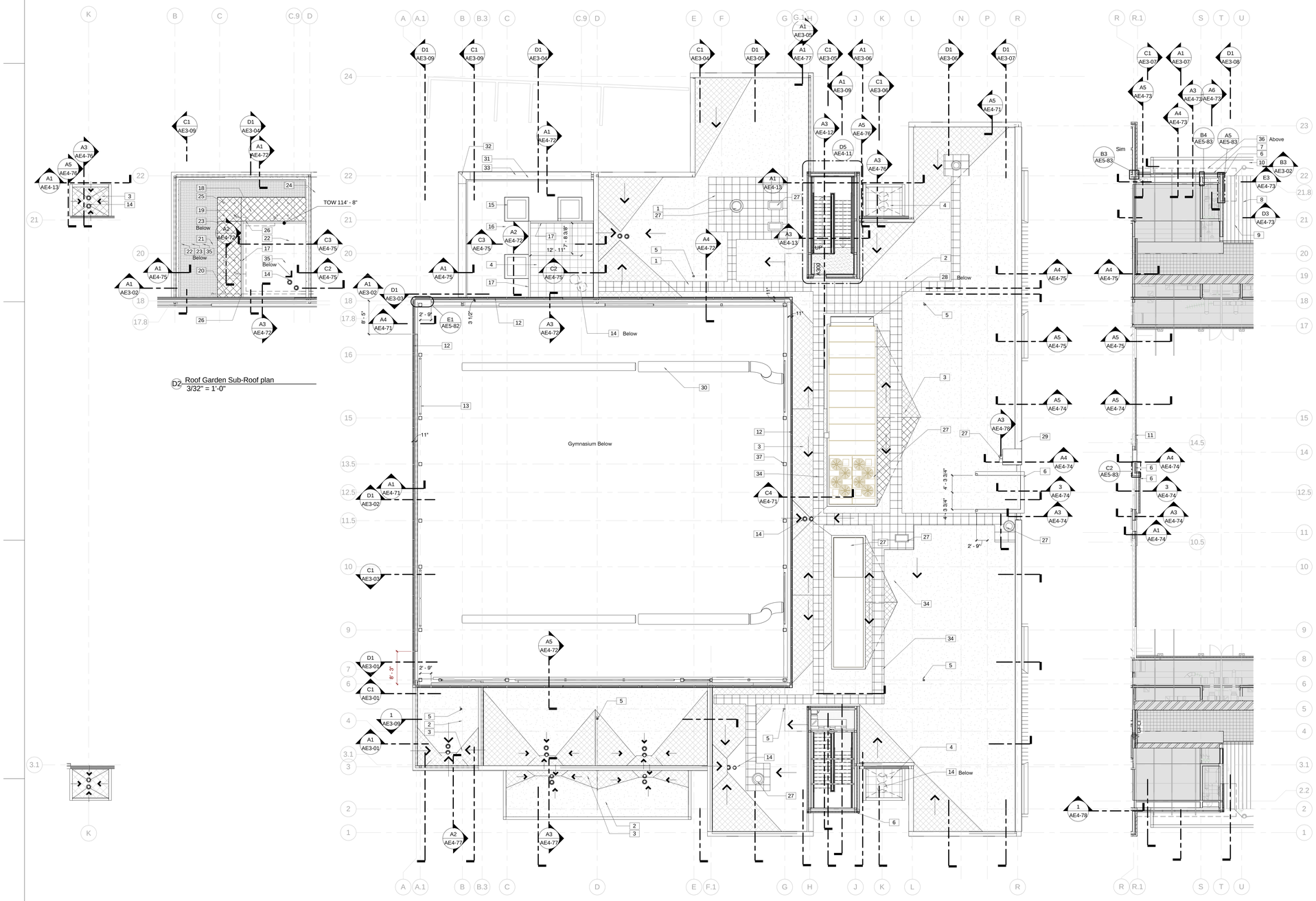
Level B Floor Plan Level 2 Floor Plan

AE1-32




D2 Roof Garden Sub-Roof plan
3/32" = 1'-0"

A1 Roof Canopy Sub-Roof Plan
3/32" = 1'-0"

A2 Roof Penthouse Gym Clerestory Plan
3/32" = 1'-0"

A5 Classroom Clerestory Plan
3/32" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Flexible Walkway |
| 2 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 3 | Tapered Insulation below TPO Roof Membrane |
| 4 | 24" Square Concrete Pavers on Pedestals |
| 5 | Galvanized Fall Protection Tie In Point. Locate Galvanized Dip Hole At Bottom Of Assembly - See Structural For Connection. See Architectural Roof Plan For Locations. |
| 6 | Metal Composite Wall Panel |
| 7 | Aluminum Framed Storefront System |
| 8 | KEE Membrane Over Base Layer of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 9 | Adhered Simulated Standing Seam |
| 10 | Tapered Insulation below Cover Board and KEE Roof Membrane |
| 11 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 12 | Glazed Aluminum Framed Curtain Wall System |
| 13 | Steel Brace Member, Refer To Structural Drawings |
| 14 | Roof Drain Refer To Plumbing Drawings |
| 15 | 6' X 6' Planter Box Furnished By Owner, Installed By Contractor. Provide Holes In Base Of Planter Box As Required For Irrigation And Drainage. |
| 16 | Crushed Stone |
| 17 | Concrete Curb |
| 18 | Geofoam |
| 19 | Irrigation Line. See Irrigation Drawings. Provide Hole In Owner Furnished Planter Box As Required |
| 20 | Slot Geofoam For Irrigation Line Path As Indicated. See Irrigation Drawings |
| 21 | Planting Media |
| 22 | 6" XPS Rigid Insulation (3 Layers of 2" With Staggered Joints) Provides Slots in Base Layer |
| 23 | Water Retention Layer With Integrated Filter Fabric |
| 24 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 25 | Provide (4) 2" Holes for Drainage and (1) 3" Hole for Irrigation Penetration as In Owner Furnished Planter Box and In Geofoam as Indicated |
| 26 | Sleeve through Concrete As Required For Pipe Penetration |
| 27 | Mechanical Equipment, Refer to Mechanical Drawings |
| 28 | Housekeeping Pad, Coordinate Size with Mechanical. |
| 29 | 22 Gage Prefinished Clip-On Fascia Trim |
| 30 | Exposed Mechanical Ductwork, refer to Mechanical Drawings |
| 31 | 20 Gage Prefinished Metal Coping |
| 32 | Prefabricated Corner Coping |
| 33 | Standing Seam Coping Joint |
| 34 | Flexible Walkway |
| 35 | Cold Fluid Applied Waterproofing Membrane |
| 36 | Metal Composite Soffit Panels |
| 37 | Architecturally Exposed Structural Steel Framing |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

| | |
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| Architectural: | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrzewski Designs - 801.582.9747 |

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### SHEET DATA

Drawn By: Eric
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building | Salt Lake City, UAH 84114 | 538-3018

DFCM # 14190230
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### ISSUE/PHASE

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| 2014 10 09 | Schematic Design |
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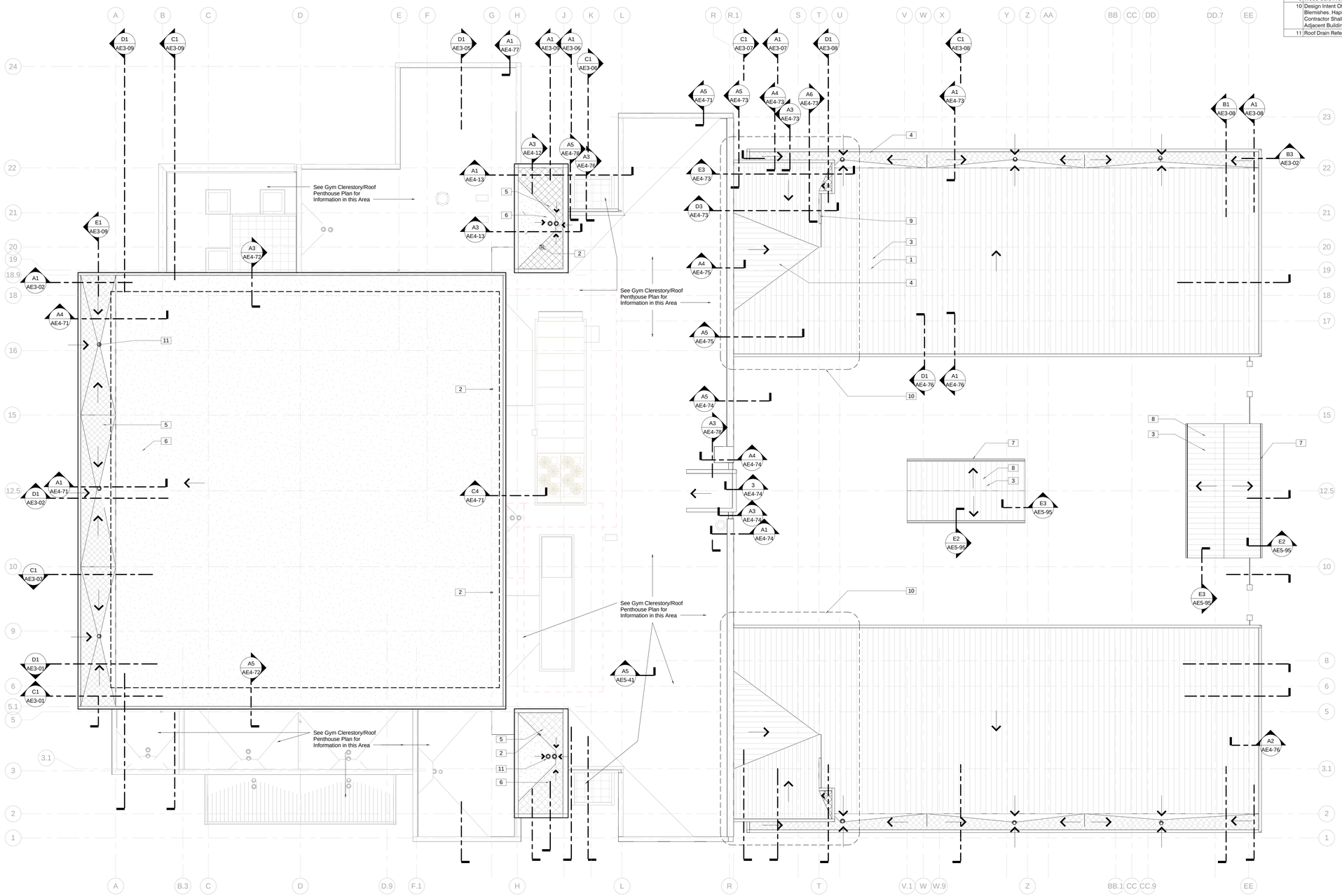
Construction Documents

Roof Penthouse
Clerestory Plans

AE1-33

| Keynote Legend | |
|---|---|
| 1 | KEE Membrane Over Base Layer of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 2 | Galvanized Fall Protection Tie In Point. Locate Galvanized Dip Hole At Bottom Of Assembly - See Structural For Connection. See Architectural Roof Plan For Locations. |
| 3 | Adhered Simulated Standing Seam |
| 4 | Tapered Insulation below Cover Board and KEE Roof Membrane |
| 5 | Tapered Insulation below TPO Roof Membrane |
| 6 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 7 | 18 Gage Prefinished Rain gutter |
| 8 | KEE Membrane Over 1/4" Cover Board Over Roof Deck |
| 9 | Wood Curb From Treated 2X6 Members. |
| 10 | Design Intent Of Roofing In This Area Is To Be Fifth Facade Without Blemishes. Haphazard Patching Of Roof In This Area Is Prohibited. Contractor Shall Protect Roofing In This Area During Construction Of Adjacent Building Envelope. |
| 11 | Roof Drain Refer To Plumbing Drawings |




A1 Roof Plan
3/32" = 1'-0"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PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
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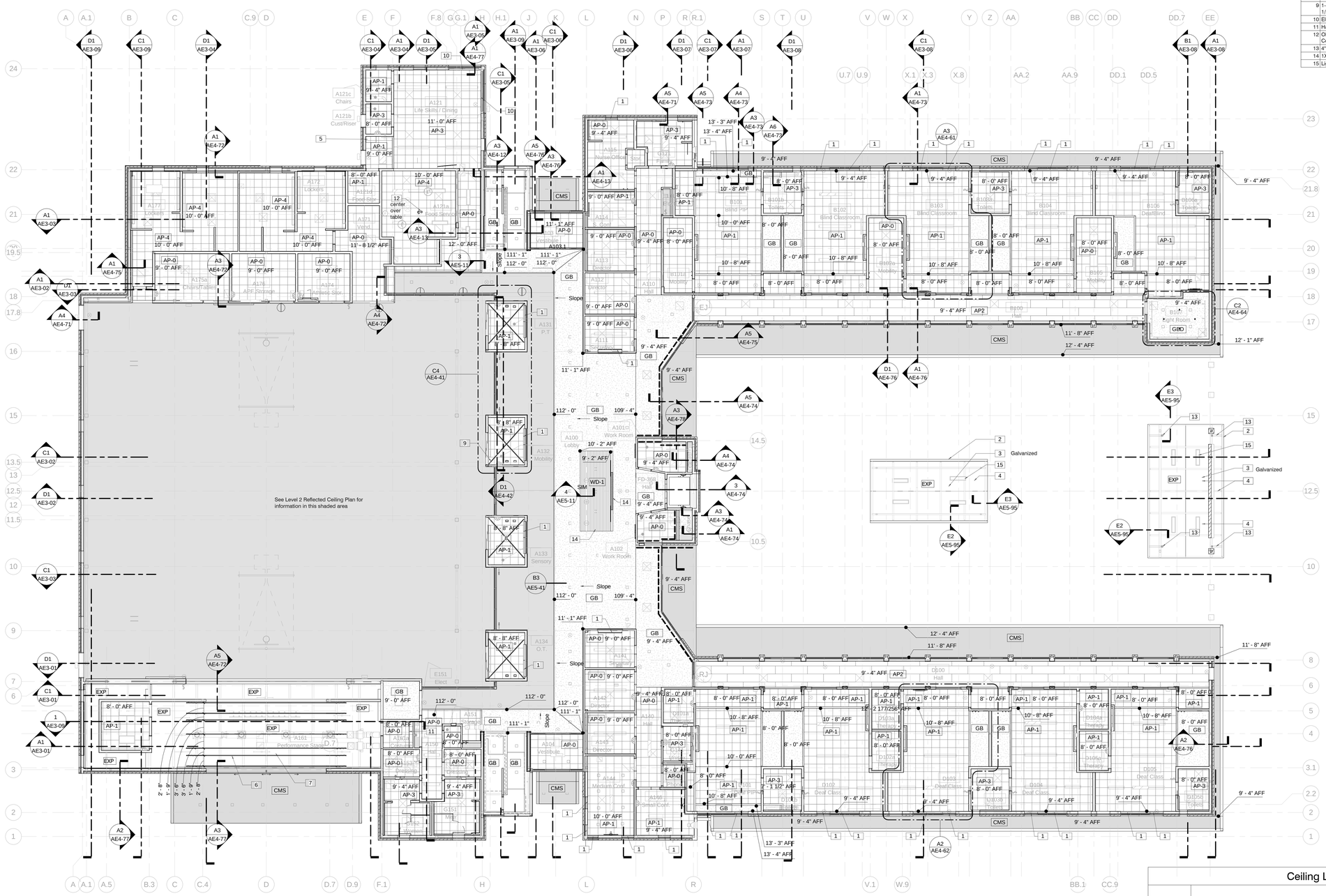
| 2015 05 21 | Bidding Documents |

Construction Documents

Roof Plan

AE1-34




A1 Level 1 Ceiling Plan
3/32" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Manually Operated Roller Window Shades With Metal Valence |
| 2 | 18 Gage Prefinished Rain gutter |
| 3 | Metal Roof Deck Refer to Structural |
| 4 | High Performance Coating on Galvanized Steel |
| 5 | Hood Furnished By Owner, Installed By Contractor |
| 6 | Stage Curtain and Track. Furnished By Owner, Installed By Contractor |
| 7 | Paint Exposed Structure, Ducts, Conduits, And Metal Deck Above Suspended Clouds. |
| 8 | |
| 9 | 1-5/8" Unistrut Channel Suspend From Cold Formed Metal Joists With 1/2" All Thread @ 24" O.C. Max. Paint To Match Ceiling. See Structural. |
| 10 | Electrical Operated Roller Window Shades With Metal Valence |
| 11 | Hanging Rod |
| 12 | Observation Camera - Infrastructure And Equipment Provided By Contractor - See Electrical |
| 13 | 4" Pre-Finished Sheet Metal Downspout |
| 14 | 1X4 Tongue And Groove Board Paneling |
| 15 | Light Fixture refer to Electrical Drawings |

*See Enlarged Ceiling plans on sheets AE4-61 & 4-62 for location of the following in each classroom ceiling:

**C** Camera
**S** Speaker
**M** Microphone
**P** Power outlet
**OH** Overhead support eyebolt

## Ceiling Legend

| Clg. Typ. | | Color |
|---|---|---|
| AP-0 | Acoustic Lay In (2x2) | White |
| AP-1 | Fiberglass Acoustic Lay In (2x2) | White |
| AP-2 | Acoustic Lay In (Staggered 2x8) | White |
| AP-2s | Acoustic Lay In (Staggered 2x8) with resilient hangers and batt insulation | White |
| AP-3 | Acoustic Lay In (Moisture Resist.) | White |
| AP-4 | Acoustic Lay In (Scrubbable) | White |
| WD-1 | 1" x 4" Tongue & Groove Wood Board Panel Ceiling | Maple with Clear Finish |
| GB | Gypsum Wall Board (White) | White |
| GBD | Gypsum Wall Board (Dark) | Indigo |
| CMS | Composite Metal Soffit | Grey |
| EXP | Exposed Ceiling | |
| FR1 | 1-Hr Fire Rated Ceiling Assembly | |
| | Run Studs to Deck, Hold GWB to 4" above Clg. For Plenum Clearance | |

Ceiling Legend
1/4" = 1'-0"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Drawn By: Joe
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State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

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Construction Documents

Level 1 Ceiling Plan

AE1-41

## Ceiling Legend

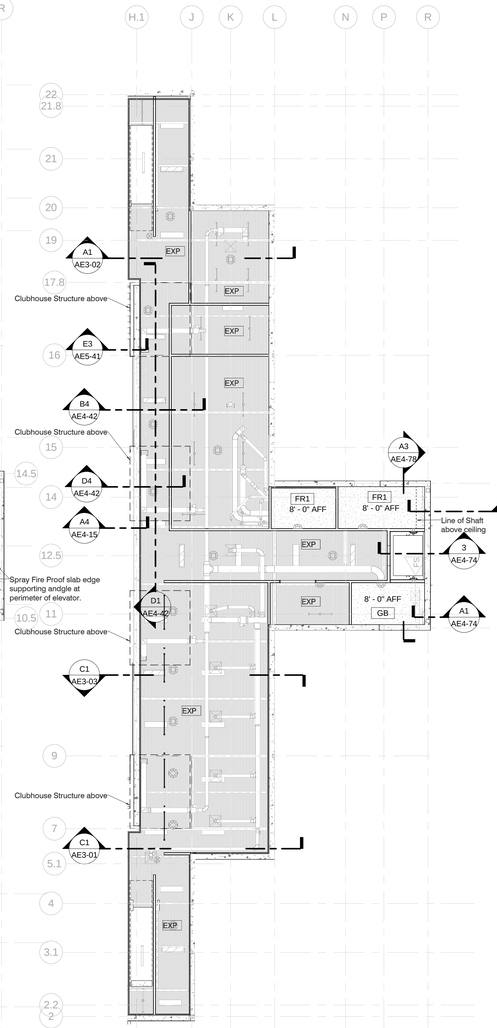
| Clg. Typ. | | Color |
|---|---|---|
| AP-0 | Acoustic Lay In (2x2) | White |
| AP-1 | Fiberglass Acoustic Lay In (2x2) | White |
| AP-2 | Acoustic Lay In (Staggered 2x8) | White |
| AP-2s | Acoustic Lay In (Staggered 2x8) with resilient hangers and batt insulation | White |
| AP-3 | Acoustic Lay In (Moisture Resist.) | White |
| AP-4 | Acoustic Lay In (Scrubbable) | White |
| WD-1 | 1" x 4" Tongue & Groove Wood Board Panel Ceiling | Maple with Clear Finish |
| GB | Gypsum Wall Board (White) | White |
| GBD | Gypsum Wall Board (Dark) | Indigo |
| CMS | Composite Metal Soffit | Grey |
| EXP | Exposed Ceiling | |
| FR1 | 1-Hr Fire Rated Ceiling Assembly | |
| | Run Studs to Deck, Hold GWB to 4" above Clg. For Plenum Clearance | |

Ceiling Legend
1/4" = 1'-0"

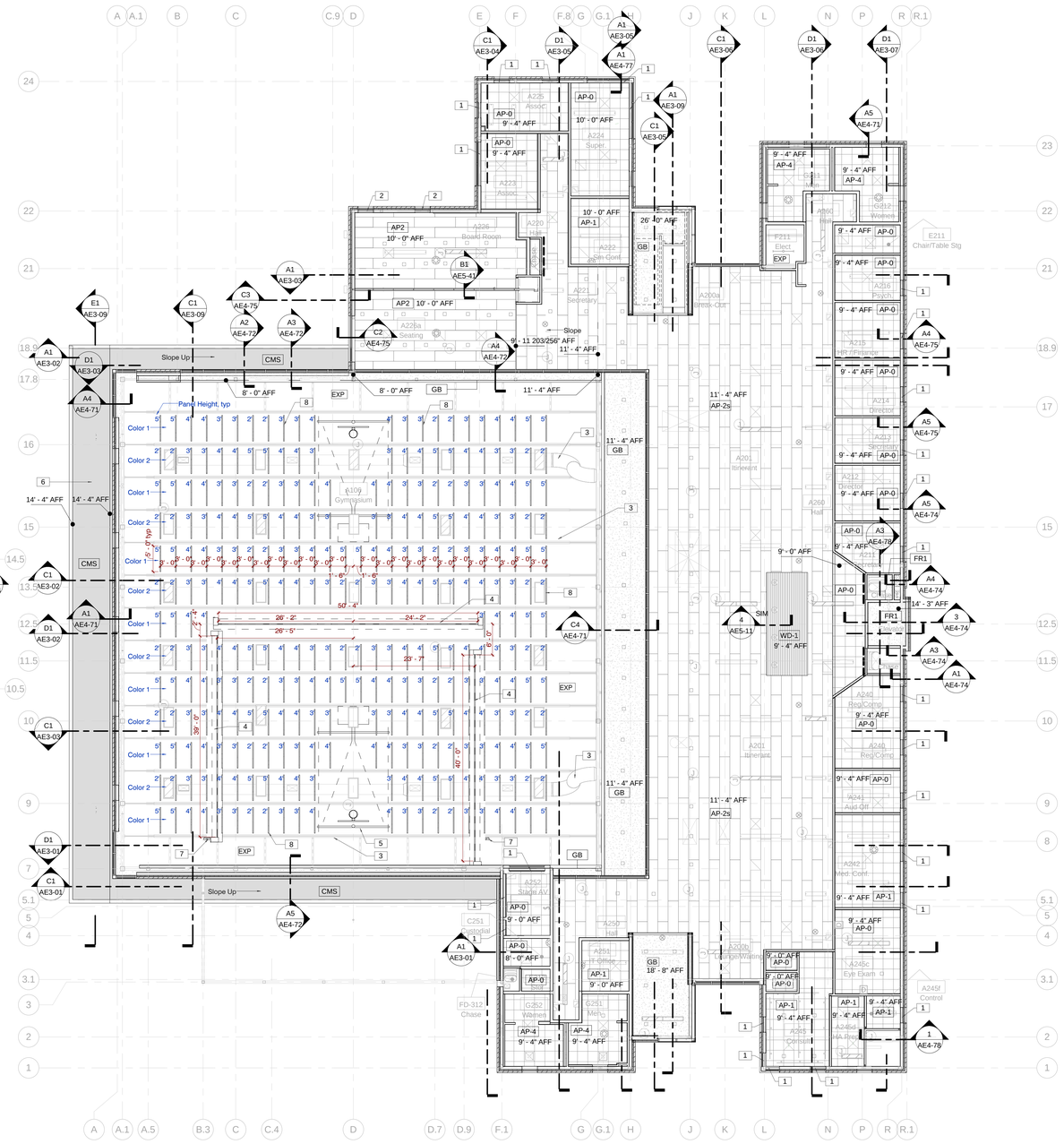
## Keynote Legend

| | |
|---|---|
| 1 | Manually Operated Roller Window Shades With Metal Valence |
| 2 | Electrical Operated Roller Window Shades With Metal Valence |
| 3 | Paint Exposed Structure, Ducts, Conduits, And Metal Deck Above Suspended Clouds. |
| 4 | Gymnasium Divider Furnished By Owner, Installed By Contractor |
| 5 | Forward Folding And Adjustable Height Basketball Standard Furnished by Owner, Installed by Contractor. BOD Porter B-950 |
| 6 | Metal Composite Soffit Panels |
| 7 | Short Throw Projector Provided By Owner |
| 8 | Ceiling Mounted Sound Absorbing Baffles - Various Lengths As Indicated In Ceiling Plan. Color To Match Architect's Sample. |

A1 Level B Fire Proofing Plan
3/32" = 1'-0"




A2 Level B Ceiling Plan
3/32" = 1'-0"




A3 Level 2 Ceiling Plan
3/32" = 1'-0"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### PROJECT

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**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
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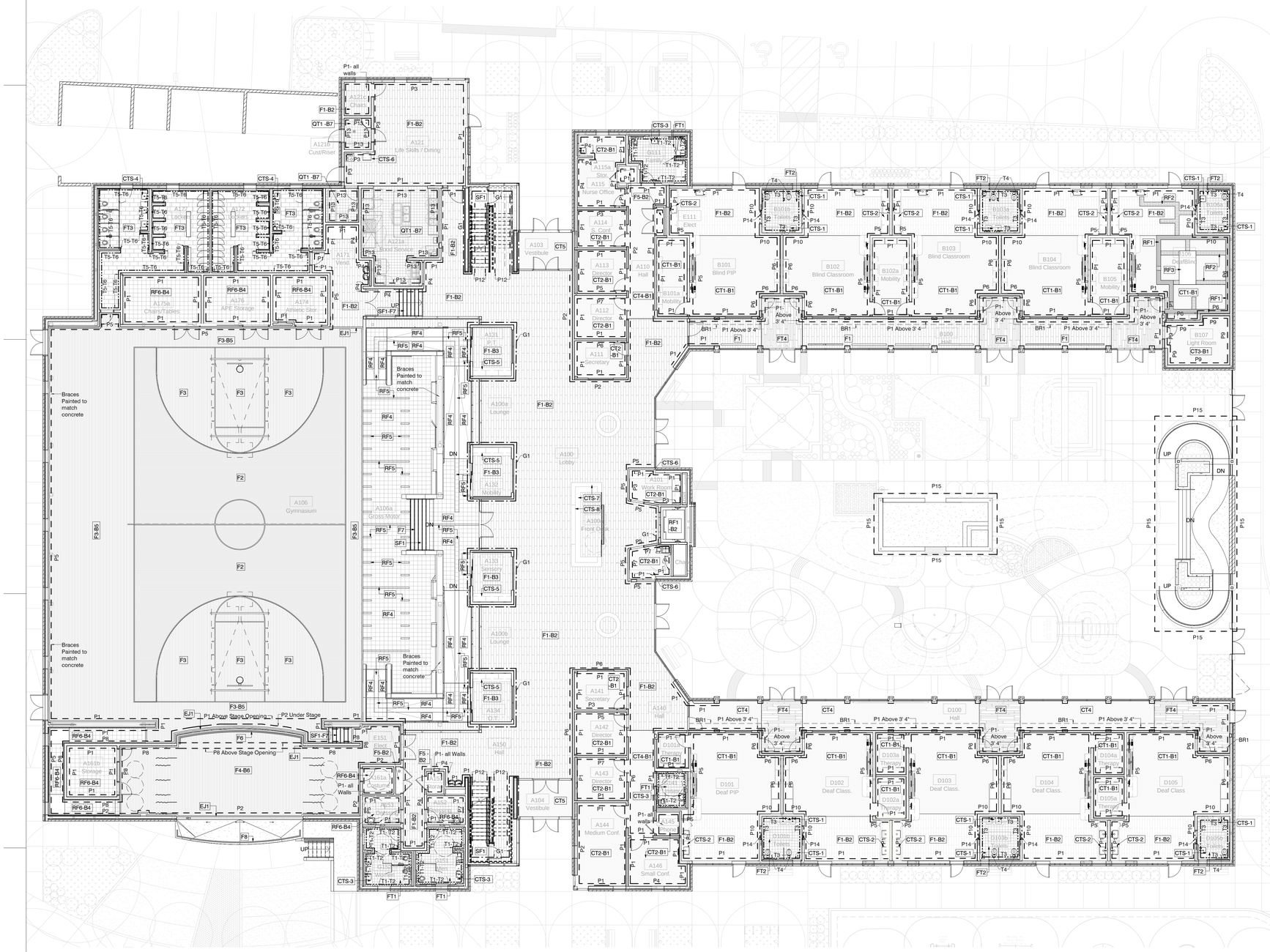
Construction Documents

Level B Ceiling Plan
Level 2 Ceiling Plan

AE1-42




A1 Level 1 BW Finish Plan - Dependent 1
3/32" = 1'-0"

## Finish Legend

| | Symbol | | Color/ Number | Pattern/ Finish | Manufacturer |
|---|---|---|---|---|---|
| **Floor Finishes** | | | | | |
| CT1 | | Classroom Carpet Tile | Ground Waves: 104055 Gravel/Colors | Ashlar Pattern Tile 25 cm x 1 cm | Interface |
| CT2 | | Office Carpet Tile | Ground Waves: 104055 Gravel/Colors | Brick Pattern Tile 25 cm x 1 cm | Interface |
| CT3 | | Light Room Carpet Tile | Palindrome: Storm 102539 | Brick Pattern Tile 50 cm x 50 cm | Interface |
| CT4 | | Carpet Tile: Hallways Itinerant Work/Break Room Board Room Lounge/Waiting | HN810: 104218 Shale HN820: 104234 Shale HN830: 104242 Kiwi HN840: 104226 Shale HN850: 104210 Shale | Mix of Human Nature Collection Tile 25 cm x 1 cm *Pattern to be determined | Interface |
| CT5 | | Vestibule Carpet | Deco-Rib: Silvergray 602373 | Quarter Turn Pattern Tile 50 cm x 50 cm | Interface |
| RF1 | | Deaf/Blind Path Around Room Flooring | BMRTS-291 Laguna | Rubber - Bamboo Texture | Johnsonite |
| RF2 | | Deaf/Blind Path Alt. Flooring | CRTS-151 Iguana | Rubber - Cubis Texture | Johnsonite |
| RF3 | | Deaf/Blind Resonance Flooring | | | |
| RF4 | | Grossmotor/Gymnasium Ramp Flooring | HNSP-LF5 Irish Meadow | Inertia Rubber - 24" x 24" | Johnsonite |
| RF5 | | Accent Stripe Flooring | HNSP-LA2 Wedding Cake W | Inertia Rubber - 24" x 24" | Johnsonite |
| RF6 | | Rubber Flooring | 80 Fawn | Rubber - Hammered Texture | Johnsonite |
| SF1 | | Stairs Flooring | BMRTS-80 Fawn | Rubber - Bamboo Texture | Johnsonite |
| FT1 | | Restroom Floor Tile | Mysitc Way ID02 | 12" x 24" | Daltile |
| FT2 | | Classroom Restroom Floor Tile | Tan Dazzel P263 | 12" x 24" | Daltile |
| FT3 | | Locker Room Floor Tile | Copper Haze ID03 | 12" x 24" | Daltile |
| FT4 | | Hallway Floor Tile | Cosmo IG96/ Midnight IG98 | Unpolished Mix of - 4" x 48" and 6" x 48" | Daltile |
| QT1 | | Food Prep Floor Tile | Arid Gray 0Q42 | Quarry Tile - 6" x 6" | Daltile |
| PV1 | | Second Level Garden Pavers | Storm Gray 0Q83 | Smooth Surface Tile 6" x 6" | Daltile |
| EJ1 | | Wood Expansion Joint Cover | | 4" Gap | |
| F1 | | LVT Flooring: Lobby Life Skills Dining Classroom Wet Area | Cyan 65436 Antler 64761 Green 65326 Beige 65114 Ashen 64155 Charcoal 65595 Parchment 64111 | Mix of Direct Glue Grain +Pigment 7" x 48" Tile *Pattern to be determined | Shaw Contract Group |
| F2 | | Gymnasium Wood Flooring | Maple | | |
| F3 | | Gymnasium-Boarder Wood Flooring | Walnut | | |
| F4 | | Performance Stage Wood Flooring | Painted Wood - Black | | |
| F5 | | Service/Storage Room Flooring | Concrete | Sealed | |
| F6 | | Abrasive Strip on Int. Stage | Flexible Walkway | | Fiber Tite |
| F7 | | Abrasive Strip on Stair Tread | Black | Grit Tape | Johnsonite |
| F8 | | Abrasive Strip on Ext. Stage | Tactile Warning Strip | | |
| **Base Finishes** | | | | | |
| B1 | | Straight Vinyl Base - for Carpet Flooring | 20 Charcoal WG | 4" High from the Floor | Johnsonite |
| B2 | | Cove Vinyl Base - for Resilient Flooring | 20 Charcoal WG | 4" High from the Floor | Johnsonite |
| B3 | | Clubhouse Straight Vinyl Base | Bigtop 294 | 4" High from the Floor | Johnsonite |
| B4 | | Base for Rubber Flooring | 80 Fawn | 4" High from the Floor | Johnsonite |
| B5 | | Gymnasium Wood Base | Walnut | 4" High from the Floor | |
| B6 | | Performance Stage Base | Painted Wood - Black | 4" High from the Floor | |
| B7 | | Quarry Tile with Cove Base | Arid Gray 0Q42- Cove Base Q-3565 | Quarry Tile- 6" High from the Floor | Daltile |
| **Wall Finishes** | | | | | |
| P1 | | General Neutral Paint | Mayonnaise 2152-70 | Eggshell Finish | Benjamin Moore |
| P2 | | Accent Color 1 | Steel Wool 2121-20 | Eggshell Finish | Benjamin Moore |
| P3 | | Accent Color 2 | Saybrook Sage HC-114 | Eggshell Finish | Benjamin Moore |
| P4 | | Accent Color 3 | Rich Coral 028 | Eggshell Finish | Benjamin Moore |
| P5 | | Accent Color 4 | Spring Dust 2150-40 | Eggshell Finish | Benjamin Moore |
| P6 | | Accent Color 5 | Soft Fern 2144-40 | Eggshell Finish | Benjamin Moore |
| P7 | | Accent Color 6 | Dry Sage 2142-40 | Eggshell Finish | Benjamin Moore |
| P8 | | Accent Color 6 | Ruby Red 2001-10 | Eggshell Finish | Benjamin Moore |
| P9 | | Light Room Paint | Polo Blue 2062-10 | Eggshell Finish | Benjamin Moore |
| P10 | | Chalkboard Paint 308 | Nightfall 1596 | Eggshell Finish | Benjamin Moore |
| P11 | | General Ceiling Paint | Navajo White OC-95 | Eggshell Finish | Benjamin Moore |
| P12 | | Door Frames/ Railings Exposed Structural Columns/ Beams | Gray 2121-10 | Eggshell Finish | Benjamin Moore |
| P13 | | Food Service Room Epoxy Paint | Mayonnaise 2152-70 | Gloss Finish | Benjamin Moore |
| P14 | | Classroom Restroom Door Paint | Boca Raton Blue 711 | Eggshell Finish | Benjamin Moore |
| P15 | | High Performance Paint on all Exposed Exterior Structure | Nightfall 1596 | Eggshell Finish | Benjamin Moore |
| T1 | | Restroom Wall Tile | Sweetwood | Glazed Tile - 2 1/8" x 8 1/2" | Interceramics |
| T2 | | Restroom Accent Stripe Wall Tile | Autumn Trail CW26 | Glass Mosaic 1x1 | Daltile |
| T3 | | Classroom Restroom Wall Tile 1 | Cypress 01452/ Garden Spot 0141/ White K101 | Random Pattern of Semi-Gloss - 3" x 6" | Daltile |
| T4 | | Classroom Restroom Toilet Accent Wall Tile | Fire Brick Q093 | Semi-Gloss - 3" x 6" | Daltile |
| T5 | | Locker Room Wall Tile | Gray Shimmer P265 | 12" x 24" | Daltile |
| T6 | | Locker Room Accent Wall Tile | Green Parade CW15 | Glass Mosaic 1x1 | Daltile |
| G1 | | Clubhouse/Stairwell Glass | Red | | |
| BR1 | | Brick Wainscoting up to 2'-0" | | | |
| **Countertop Surface Finishes** | | | | | |
| CTS-1 | | Classroom Restroom Countertop | Coffee Silica 763 | Solid Surface | Formica |
| CTS-2 | | Classroom Countertop | Bianco Mineral MU4101 | Solid Surface | Formica |
| CTS-3 | | Restrooms Countertop | Mariposa Buff 5342-58 | Quartz | Arizonia Tile |
| CTS-4 | | Locker Room Countertop | Portofino Mineral 766 | Solid Surface | Formica |
| CTS-5 | | Clubhouses & Break Room Countertop | eSurf 750 | Solid Surface | Formica |
| CTS-6 | | Work Room & Life Skills/Dining Countertop | Natural Maple 756 | Plastic Laminate | Formica |
| CTS-7 | | Reception Desk Countertop | Hazelford | Quartz | Cambria |
| CTS-8 | | Reception Desk Backsplash | Fossil 5349 | Plastic Laminate | Formica |


JACOBY ARCHITECTS

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Drawn By: Tawny
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### PROJECT

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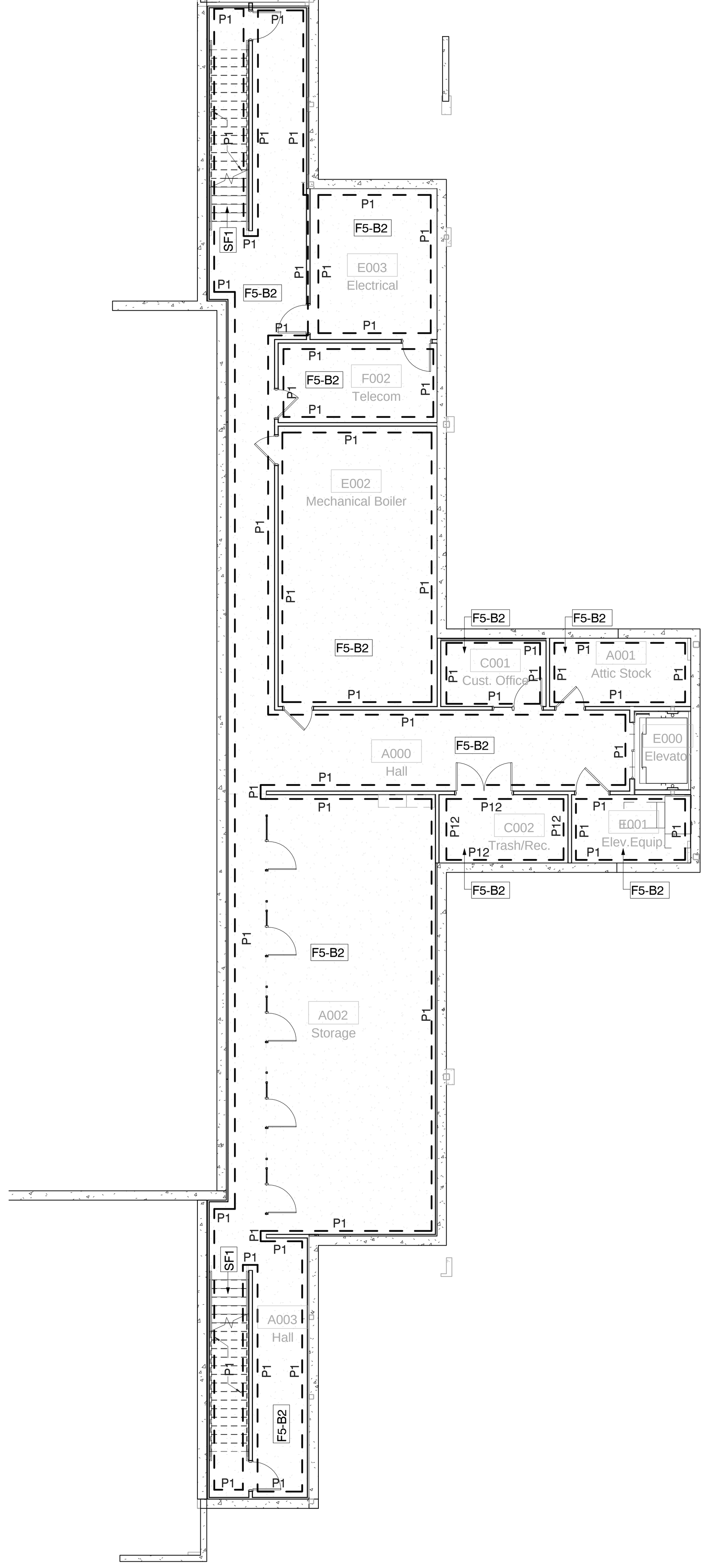
Construction Documents

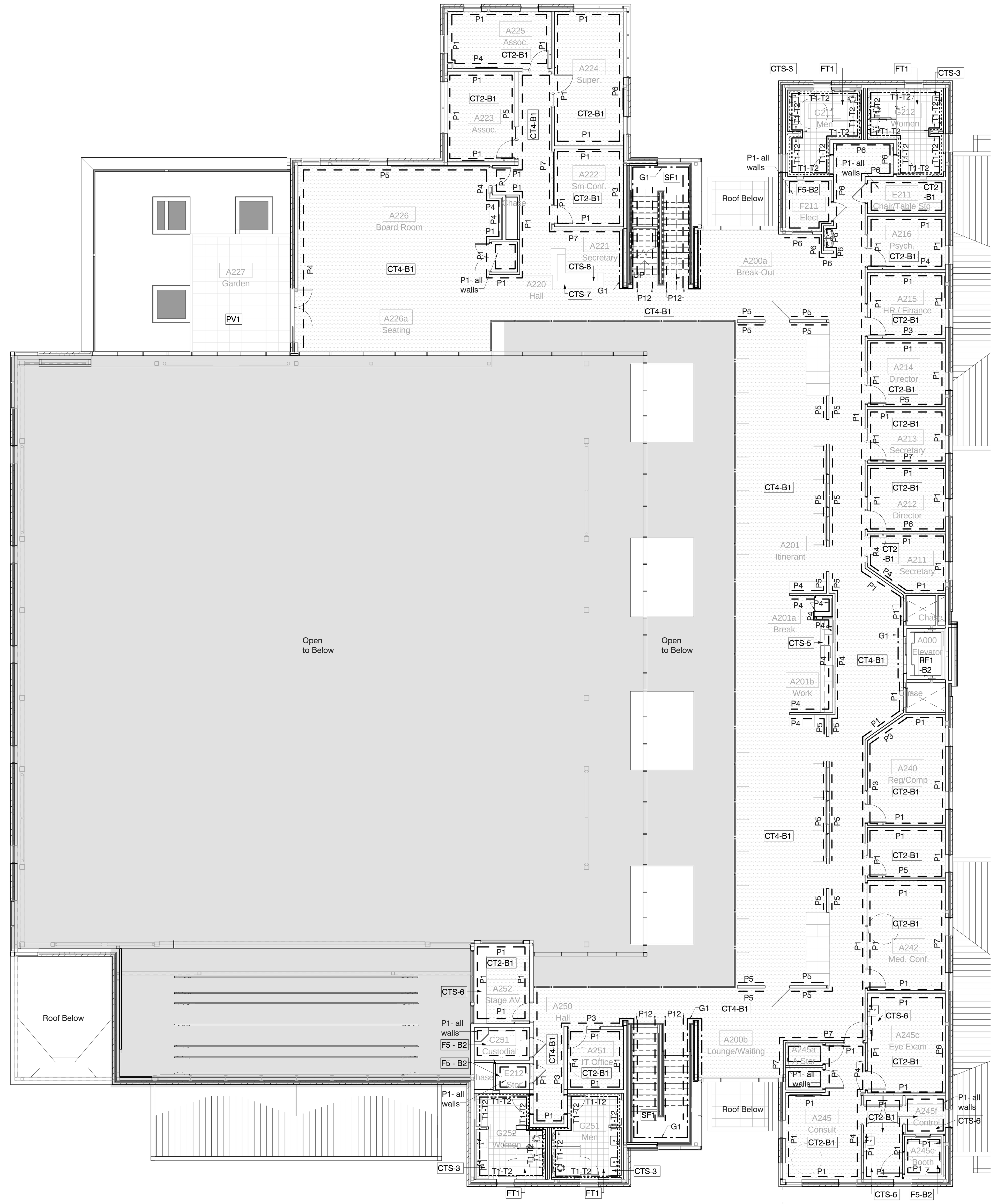
Level 1 Finish Plan

AE1-51

1 2 3 4 5 6




A1 Level B BW Finish Plan -Dependent 1
3/32" = 1'-0"




A3 Level 2 BW Finish Plan - Dependent 1- Color
3/32" = 1'-0"

## Finish Legend

| | Symbol | | Color/ Number | Pattern/ Finish | Manufacturer |
|---|---|---|---|---|---|
| **Floor Finishes** | | | | | |
| CT1 | | Classroom Carpet Tile | Ground Waves: 104055 Gravel/Colors | Ashlar Pattern Tile 25 cm x 1 cm | Interface |
| CT2 | | Office Carpet Tile | Ground Waves: 104055 Gravel/Colors | Brick Pattern Tile 25 cm x 1 cm | Interface |
| CT3 | | Light Room Carpet Tile | Palindrome: Storm 102539 | Brick Pattern Tile 50 cm x 50 cm | Interface |
| CT4 | | Carpet Tile: Hallways Itinerant Work/Break Room Board Room Lounge/Waiting | HN810: 104218 Shale HN820: 104234 Shale HN830: 104242 Kiwi HN840: 104226 Shale HN850: 104210 Shale | Mix of Human Nature Collection Tile 25 cm x 1 cm *Pattern to be determined | Interface |
| CT5 | | Vestibule Carpet | Deco-Rib: Silvergray 602373 | Quarter Turn Pattern Tile 50 cm x 50 cm | Interface |
| RF1 | | Deaf/Blind Path Around Room Flooring | BMRTS-291 Laguna | Rubber - Bamboo Texture | Johnsonite |
| RF2 | | Deaf/Blind Path Alt. Flooring | CRTS-151 Iguana | Rubber - Cubis Texture | Johnsonite |
| RF3 | | Deaf/Blind Resonance Flooring | | | |
| RF4 | | Grossmotor/Gymnasium Ramp Flooring | HNSP-LF5 Irish Meadow | Inertia Rubber - 24" x 24" | Johnsonite |
| RF5 | | Accent Stripe Flooring | HNSP-LA2 Wedding Cake W | Inertia Rubber - 24" x 24" | Johnsonite |
| RF6 | | Rubber Flooring | 80 Fawn | Rubber - Hammered Texture | Johnsonite |
| SF1 | | Stairs Flooring | BMRTS-80 Fawn | Rubber - Bamboo Texture | Johnsonite |
| FT1 | | Restroom Floor Tile | Mysitc Way ID02 | 12" x 24" | Daltile |
| FT2 | | Classroom Restroom Floor Tile | Tan Dazzel P263 | 12" x 24" | Daltile |
| FT3 | | Locker Room Floor Tile | Copper Haze ID03 | 12" x 24" | Daltile |
| FT4 | | Hallway Floor Tile | Cosmo IG96/ Midnight IG98 | Unpolished Mix of - 4" x 48" and 6" x 48" | Daltile |
| QT1 | | Food Prep Floor Tile | Arid Gray 0Q42 | Quarry Tile - 6" x 6" | Daltile |
| PV1 | | Second Level Garden Pavers | Storm Gray 0Q83 | Smooth Surface Tile 6" x 6" | Daltile |
| EJ1 | | Wood Expansion Joint Cover | | 4" Gap | |
| F1 | | LVT Flooring: Lobby Life Skills Dining Classroom Wet Area | Cyan 65436 Antler 64761 Green 65326 Beige 65114 Ashen 64155 Charcoal 65595 Parchment 64111 | Mix of Direct Glue Grain+Pigment 7" x 48" Tile *Pattern to be determined | Shaw Contract Group |
| F2 | | Gymnasium Wood Flooring | Maple | | |
| F3 | | Gymnasium-Boarder Wood Flooring | Walnut | | |
| F4 | | Performance Stage Wood Flooring | Painted Wood - Black | | |
| F5 | | Service/Storage Room Flooring | Concrete | Sealed | |
| F6 | | Abrasive Strip on Int. Stage | Flexible Walkway | | Fiber Tite |
| F7 | | Abrasive Strip on Stair Tread | Black | Grit Tape | Johnsonite |
| F8 | | Abrasive Strip on Ext. Stage | Tactile Warning Strip | | |
| **Base Finishes** | | | | | |
| B1 | | Straight Vinyl Base - for Carpet Flooring | 20 Charcoal WG | 4" High from the Floor | Johnsonite |
| B2 | | Cove Vinyl Base - for Resilient Flooring | 20 Charcoal WG | 4" High from the Floor | Johnsonite |
| B3 | | Clubhouse Straight Vinyl Base | Bigtop 294 | 4" High from the Floor | Johnsonite |
| B4 | | Base for Rubber Flooring | 80 Fawn | 4" High from the Floor | Johnsonite |
| B5 | | Gymnasium Wood Base | Walnut | 4" High from the Floor | |
| B6 | | Performance Stage Base | Painted Wood - Black | 4" High from the Floor | |
| B7 | | Quarry Tile with Cove Base | Arid Gray 0Q42- Cove Base Q-3565 | Quarry Tile- 6" High from the Floor | Daltile |
| **Wall Finishes** | | | | | |
| P1 | | General Neutral Paint | Mayonnaise 2152-70 | Eggshell Finish | Benjamin Moore |
| P2 | | Accent Color 1 | Steel Wool 2121-20 | Eggshell Finish | Benjamin Moore |
| P3 | | Accent Color 2 | Saybrook Sage HC-114 | Eggshell Finish | Benjamin Moore |
| P4 | | Accent Color 3 | Rich Coral 028 | Eggshell Finish | Benjamin Moore |
| P5 | | Accent Color 4 | Spring Dust 2150-40 | Eggshell Finish | Benjamin Moore |
| P6 | | Accent Color 5 | Soft Fern 2144-40 | Eggshell Finish | Benjamin Moore |
| P7 | | Accent Color 6 | Dry Sage 2142-40 | Eggshell Finish | Benjamin Moore |
| P8 | | Accent Color 6 | Ruby Red 2001-10 | Eggshell Finish | Benjamin Moore |
| P9 | | Light Room Paint | Polo Blue 2062-10 | Eggshell Finish | Benjamin Moore |
| P10 | | Chalkboard Paint 308 | Nightfall 1596 | Eggshell Finish | Benjamin Moore |
| P11 | | General Ceiling Paint | Navajo White OC-95 | Eggshell Finish | Benjamin Moore |
| P12 | | Door Frames/ Railings Exposed Structural Columns/ Beams | Gray 2121-10 | Eggshell Finish | Benjamin Moore |
| P13 | | Food Service Room Epoxy Paint | Mayonnaise 2152-70 | Gloss Finish | Benjamin Moore |
| P14 | | Classroom Restroom Door Paint | Boca Raton Blue 711 | Eggshell Finish | Benjamin Moore |
| P15 | | High Performance Paint on all Exposed Exterior Structure | Nightfall 1596 | Eggshell Finish | Benjamin Moore |
| T1 | | Restroom Wall Tile | Sweetwood | Glazed Tile - 2 1/8" x 8 1/2" | Interceramics |
| T2 | | Restroom Accent Stripe Wall Tile | Autumn Trail CW26 | Glass Mosaic 1x1 | Daltile |
| T3 | | Classroom Restroom Wall Tile 1 | Cypress 01452/ Garden Spot 0141/ White K101 | Random Pattern of Semi-Gloss - 3" x 6" | Daltile |
| T4 | | Classroom Restroom Toilet Accent Wall Tile | Fire Brick Q093 | Semi-Gloss - 3" x 6" | Daltile |
| T5 | | Locker Room Wall Tile | Gray Shimmer P265 | 12" x 24" | Daltile |
| T6 | | Locker Room Accent Wall Tile | Green Parade CW15 | Glass Mosaic 1x1 | Daltile |
| G1 | | Clubhouse/Stairwell Glass | Red | | |
| BR1 | | Brick Wainscoting up to 2'-0" | | | |
| **Countertop Surface Finishes** | | | | | |
| CTS-1 | | Classroom Restroom Countertop | Coffee Silica 763 | Solid Surface | Formica |
| CTS-2 | | Classroom Countertop | Bianco Mineral MU4101 | Solid Surface | Formica |
| CTS-3 | | Restrooms Countertop | Mariposa Buff 5342-58 | Quartz | Arizonia Tile |
| CTS-4 | | Locker Room Countertop | Portofino Mineral 766 | Solid Surface | Formica |
| CTS-5 | | Clubhouses & Break Room Countertop | eSurf 750 | Solid Surface | Formica |
| CTS-6 | | Work Room & Life Skills/Dining Countertop | Natural Maple 756 | Plastic Laminate | Formica |
| CTS-7 | | Reception Desk Countertop | Hazelford | Quartz | Cambria |
| CTS-8 | | Reception Desk Backsplash | Fossil 5349 | Plastic Laminate | Formica |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434


Project Number: 2014-07

**CONSULTANTS**

Architectural: - Jacoby Architects, Inc. - 801.363.1434
Civil: - Meridian Engineering, Inc. - 801.569.1315
Structural: - TBSE Inc. - 801.298.8795
Mechanical: - WHW Engineering - 801.466.4021
Electrical: - ECE Consulting - 801.521.8007
Landscape: - Landmark Design - 801.474.3300
Food Service: - Jedrziewski Designs - 801.582.9747

**STAMP**

STATE OF UTAH
No. 6380412
Eric R. Jacoby
5/21/2015
LICENSED ARCHITECT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**SHEET DATA**

Drawn By: Tawny
Checked By: Checker

**PROJECT**

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

**ADDENDA**

Revision Date

**ISSUE/PHASE**

| | |
|---|---|
| 2014 10 09 | Schematic Design |
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| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

# Level B / Level 2 Finish Plan

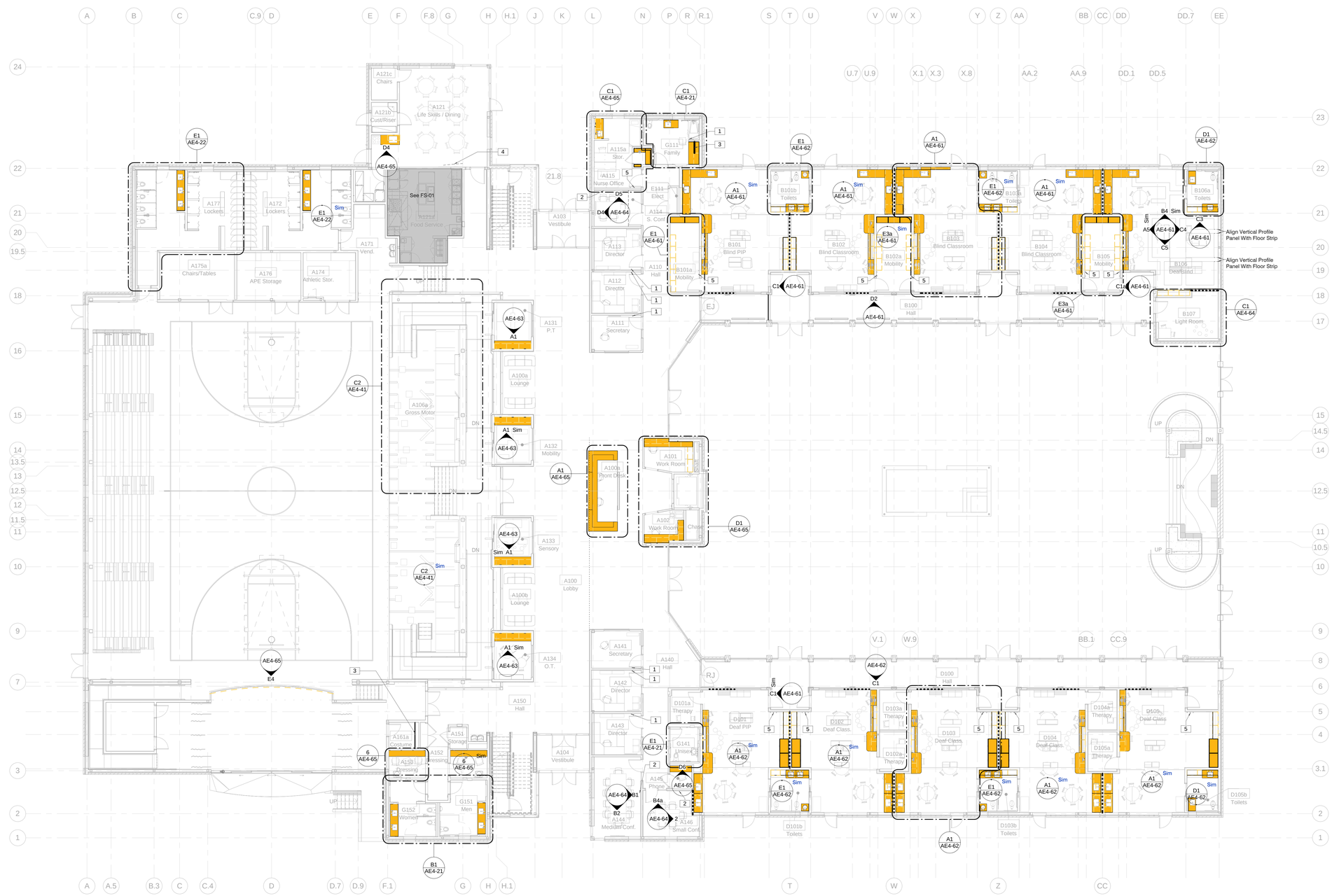
AE1-52

E D C B A

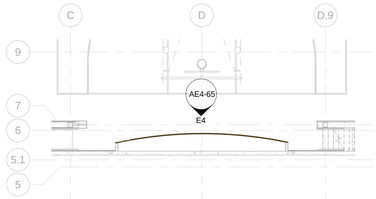
| Keynote Legend | |
|---|---|
| 1 | Coat Hook |
| 2 | Porcelain Marker Board. Keep Area Clear of All Devices. |
| 3 | Hanging Rod |
| 4 | Flat Panel Screen - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 5 | Coat Hook |

## Casework/Specialty Legend

- Resiliant Mounts Located on the Side of the Wall Where Resiliant Clips are Indicated, TYP
- Casework
- Owner Provided Furniture




B1 Level 1 Casework/Specialty/Int Elev Key Plan
3/32" = 1'-0"



A1 Gymnasium Casework
3/32" = 1'-0"


JACOBY ARCHITECTS

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Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

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### SHEET DATA

Drawn By: Kraig
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114-1204 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

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| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

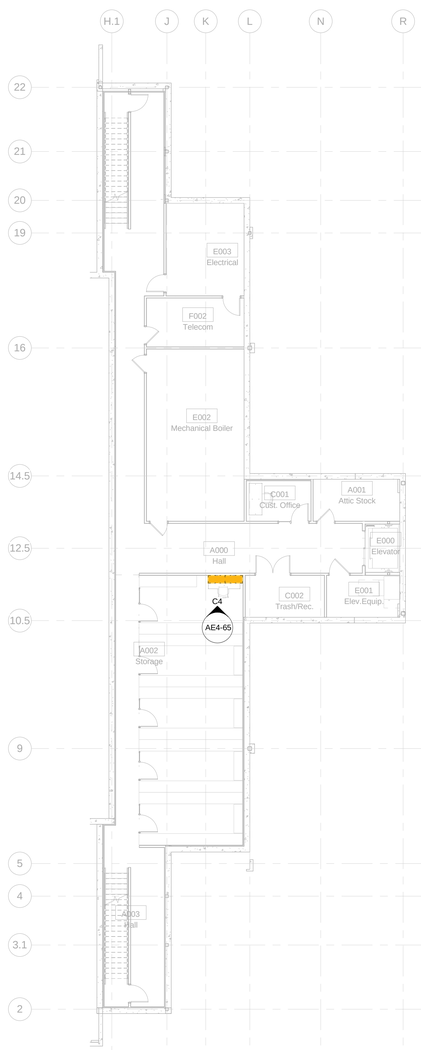
Lvl 1 Casework/ Specialty Int Elev Key Plans

AE1-61

| Keynote Legend | |
|---|---|
| 1 | Coat Hook |
| 2 | Porcelain Marker Board. Keep Area Clear of All Devices. |
| 3 | Coat Hook |

## Casework/Specialty Legend

- Resiliant Mounts Located on the Side of the Wall Where Resiliant Clips are Indicated, TYP
- Casework
- Owner Provided Furniture




A1 Level B Casework/Specialty/Int Elev Key Plan
3/32" = 1'-0"

A3 Level 2 Casework/Specialty/Int Elev Key Plan
3/32" = 1'-0"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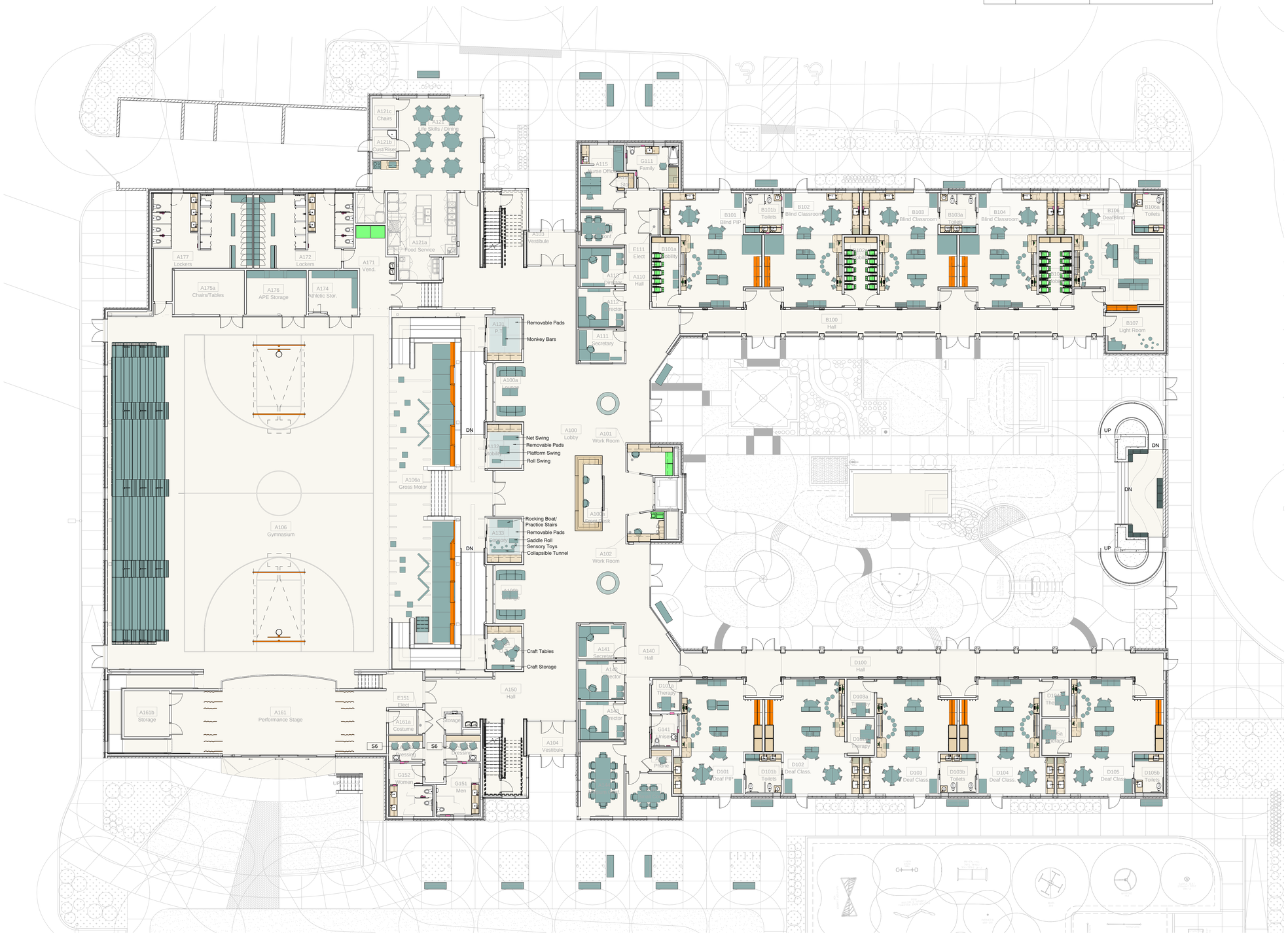
Construction Documents

Lvl B/ Lvl 2 Casework
Specialty/ Int Elev Key Plns

AE1-62

## Scoping Legend

| | | |
|---|---|---|
| | Owner-Furnished Items | Furnish - by Owner, Install - by Contractor (Procured through FF&E Contract) |
| | Owner-Furnished Items | Furnish - by Owner, Install - by Contractor (Procured by USDB) |
| | Owner-Provided Items | Owner Provided and Installed (Procured through FF&E Contract) |
| | Owner-Provided Items | Owner Provided and Installed (Procured by USDB) |
| | Millwork | Procurded through Construction Contract |
| | All Other Building Components | Procurded through Construction Contract |




A1 Level 1 Furniture Plan
3/32" = 1'-0"

JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

### CONSULTANTS

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### PROJECT

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**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

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| 2015 05 21 | Bidding Documents |

Construction Documents

Level 1 FF&E

AE1-71

## Scoping Legend

| | | |
|---|---|---|
| | Owner-Furnished Items | Furnish - by Owner, Install - by Contractor (Procured through FF&E Contract) |
| | Owner-Furnished Items | Furnish - by Owner, Install - by Contractor (Procured by USDB) |
| | Owner-Provided Items | Owner Provided and Installed (Procured through FF&E Contract) |
| | Owner-Provided Items | Owner Provided and Installed (Procured by USDB) |
| | Millwork | Procurded through Construction Contract |
| | All Other Building Components | Procurded through Construction Contract |

A1 Level B Furniture Plan
3/32" = 1'-0"

A3 Level 2 Furniture Plan
3/32" = 1'-0"


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Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


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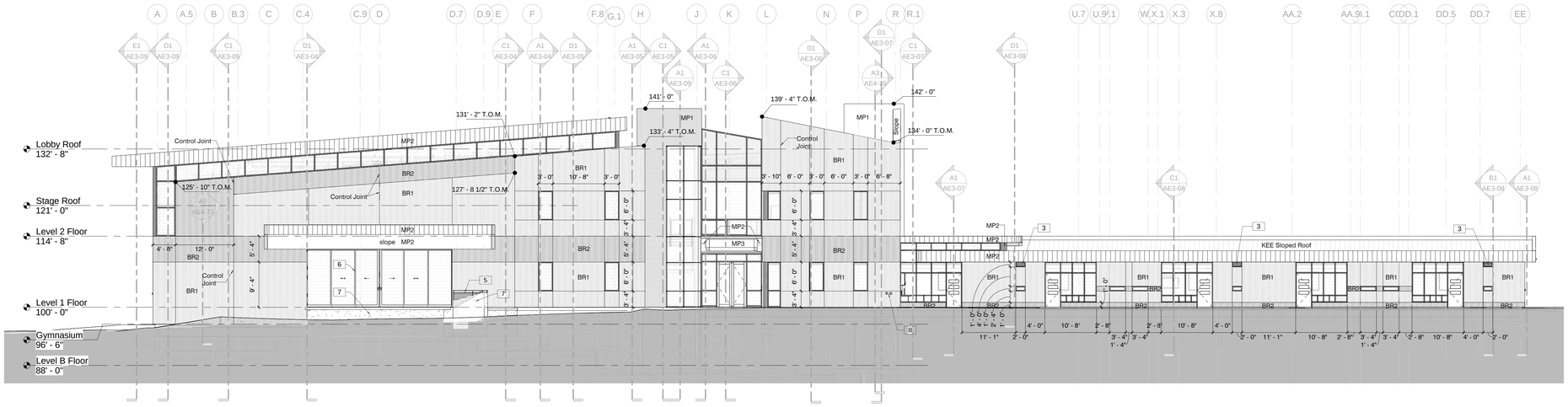
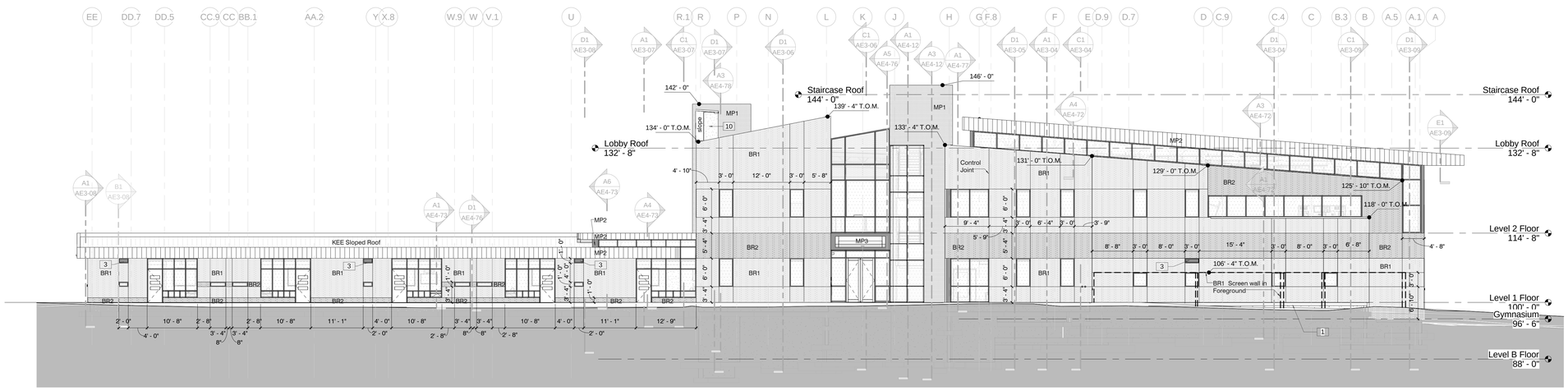
Construction Documents

Level B / Level 2 FF&E

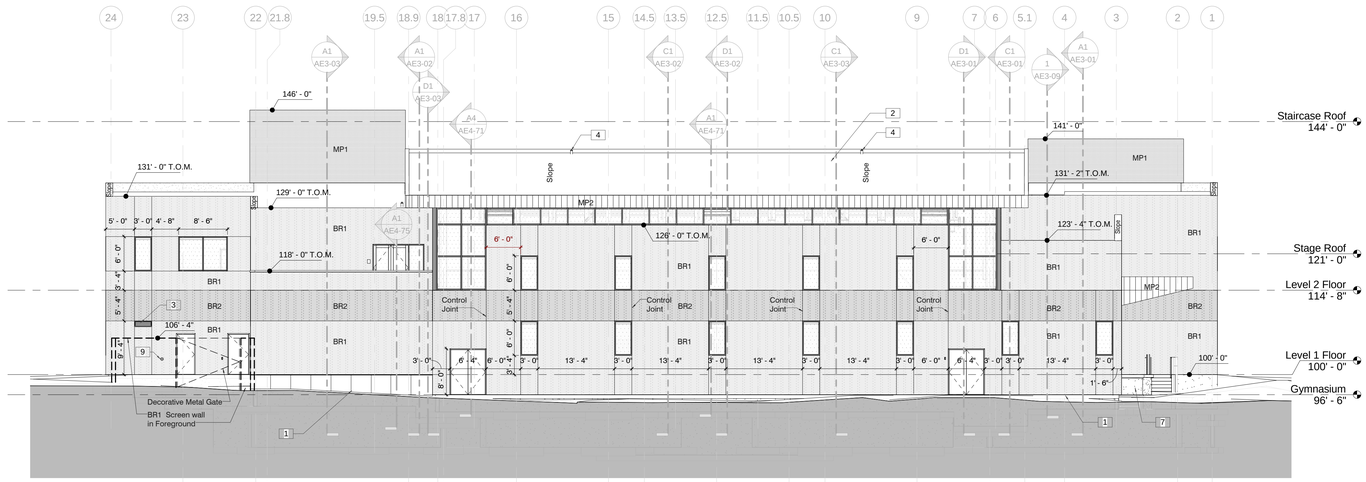
AE1-72




D1 South Elevation
3/32" = 1'-0"




B1 North Elevation
3/32" = 1'-0"




A1 West Elevation
3/32" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | 0.010" Prefinished Aluminum Protection Panel. Extend A Minimum of 3" Below Finish Grade |
| 2 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 3 | Mechanical Louver, Refer To Mechanical Drawings |
| 4 | Galvanized roof anchor |
| 5 | 1 1/2" Stainless Steel Tube Railing |
| 6 | Sliding Aluminum-Framed Glass Doors |
| 7 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |
| 8 | Fire Department Connection, See Mechanical |
| 9 | |
| 10 | Wrap Air Barrier Up Over Parapet Blocking And Seal to Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Roof Membrane |

**General Notes:**

1. All dimensions provided are to rough masonry opening

**Material Legend:**

**BR1** = Thin Emperor Brick (Arctic White)

**BR2** = Thin Emperor Brick, Scratch Texture (Arctic White) Recess BR2 brick areas 3/8" from plane of wall

**MP1** = Composite Metal Panel (Cherry Red Metallic Finish)

**MP2** = Composite Metal Panel (Pewter Metallic Finish)

**MP3** = Composite Metal Panel (White Metallic Finish)

Raked vertical mortar joints aligned with openings, cut bricks as required - Unless noted as Control Joint

Raked horizontal mortar joints aligned with openings.

**Vertical Envelope Openings Percentage:**

Total Vertical Envelope Area = 35,715 SF

Total Window Openings = 7,990 SF (22.4%)

Total Solid Wall = 27,725 SF **(77.6 %)**


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


## CONSULTANTS

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|---|---|
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9/21/2015
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## SHEET DATA

Drawn By: Joe

Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230

DFCM APPROVAL STAMP:

## ADDENDA

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## ISSUE/PHASE

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Construction Documents

# Building Elevations

# AE2-01

| Keynote Legend | |
|---|---|
| 1 | Mechanical Louver, Refer To Mechanical Drawings |
| 2 | 2" X 8" IPE WOOD SLATS |
| 3 | FRAMED GATE PANELS WITH 2" X 8" IPE WOOD SLATS AND EXIT PANIC HARDWARE |
| 4 | 8" Structural Hollow Brick To Match Color Of Building |
| 5 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |

**General Notes:**

1. All dimensions provided are to rough masonry opening

**Material Legend:**

**BR1** = Thin Emperor Brick (Arctic White)

**BR2** = Thin Emperor Brick, Scratch Texture (Arctic White) Recess BR2 brick areas 3/8" from plane of wall

**MP1** = Composite Metal Panel (Cherry Red Metallic Finish)

**MP2** = Composite Metal Panel (Pewter Metallic Finish)

**MP3** = Composite Metal Panel (White Metallic Finish)

Raked vertical mortar joints aligned with openings, cut bricks as required - Unless noted as Control Joint

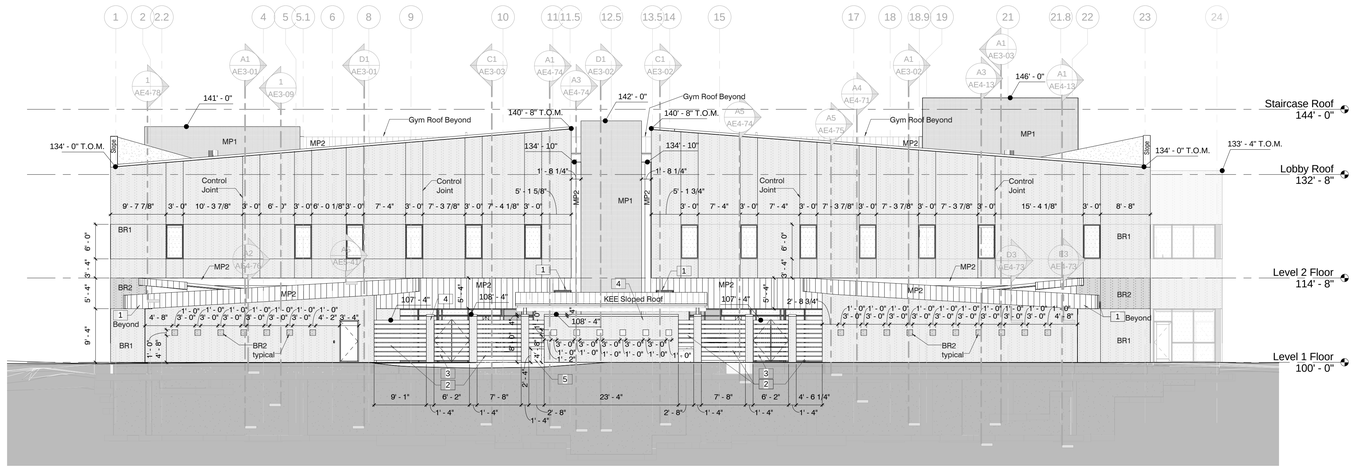
Raked horizontal mortar joints aligned with openings.

**Vertical Envelope Openings Percentage:**

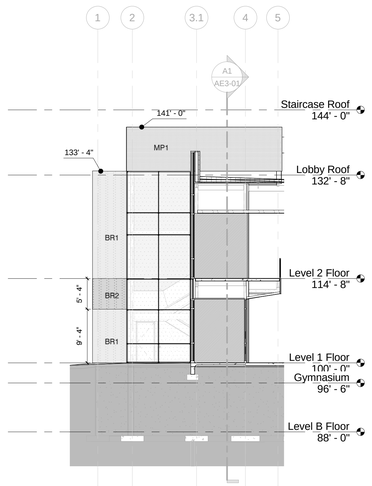
Total Vertical Envelope Area = 35,715 SF

Total Window Openings = 7,990 SF (22.4%)

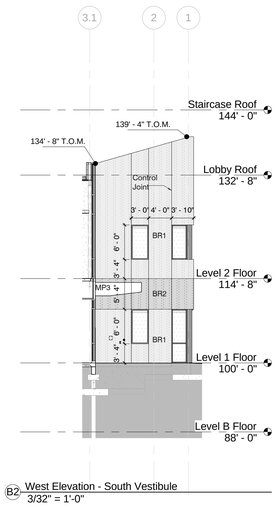
Total Solid Wall = 27,725 SF (**77.6 %**)



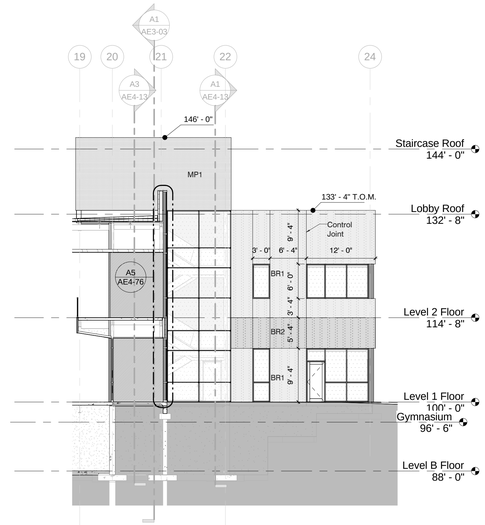

D1 East Elevation
3/32" = 1'-0"



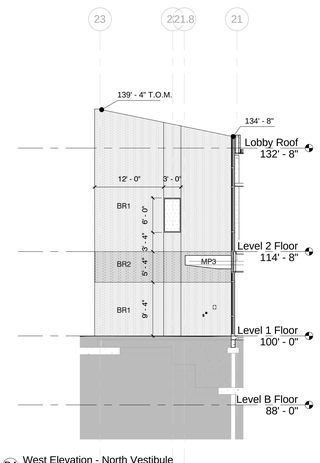

B1 East Elevation - South Vestibule
3/32" = 1'-0"



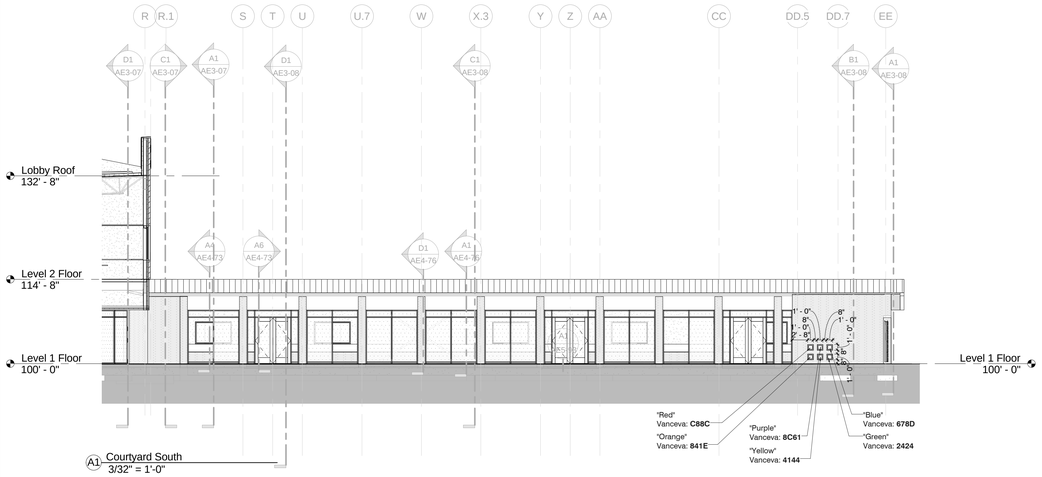

B2 West Elevation - South Vestibule
3/32" = 1'-0"



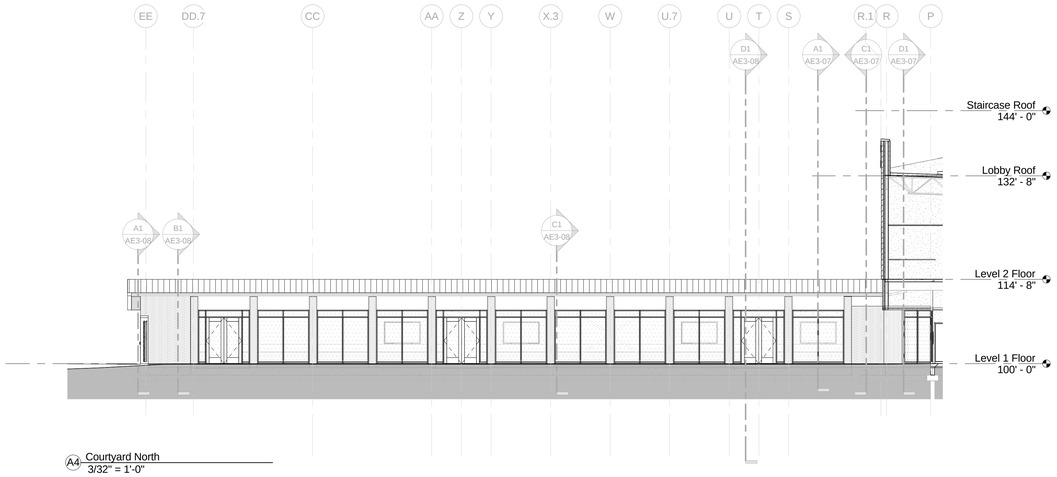

B3 East Elevation - North Vestibule
3/32" = 1'-0"




B4 West Elevation - North Vestibule
3/32" = 1'-0"




A1 Courtyard South
3/32" = 1'-0"




A4 Courtyard North
3/32" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


## CONSULTANTS

| | |
|---|---|
| Architectural: | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrziewski Designs - 801.582.9747 |

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Eric R. Jacoby
9/21/2015
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## SHEET DATA

Drawn By: Joe
Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

## ADDENDA

| Revision | Date |
|---|---|

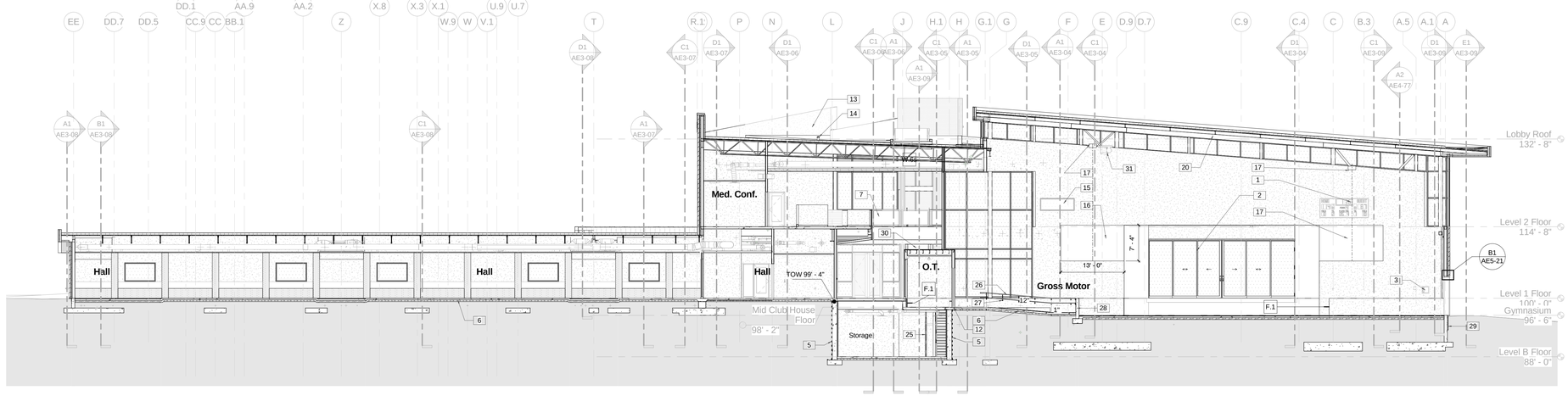
## ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

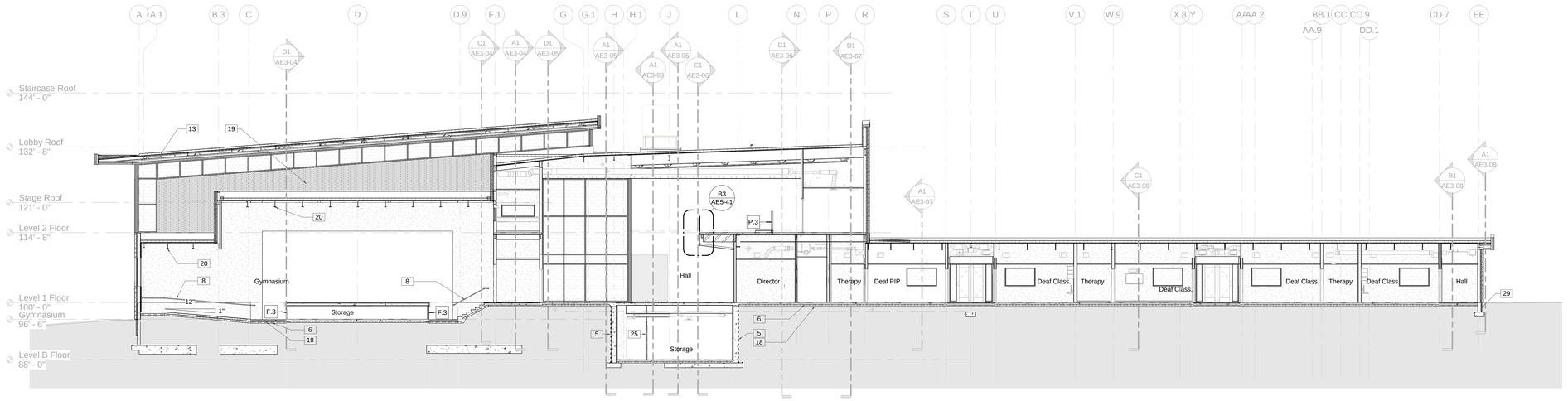
Construction Documents

# Building Elevations

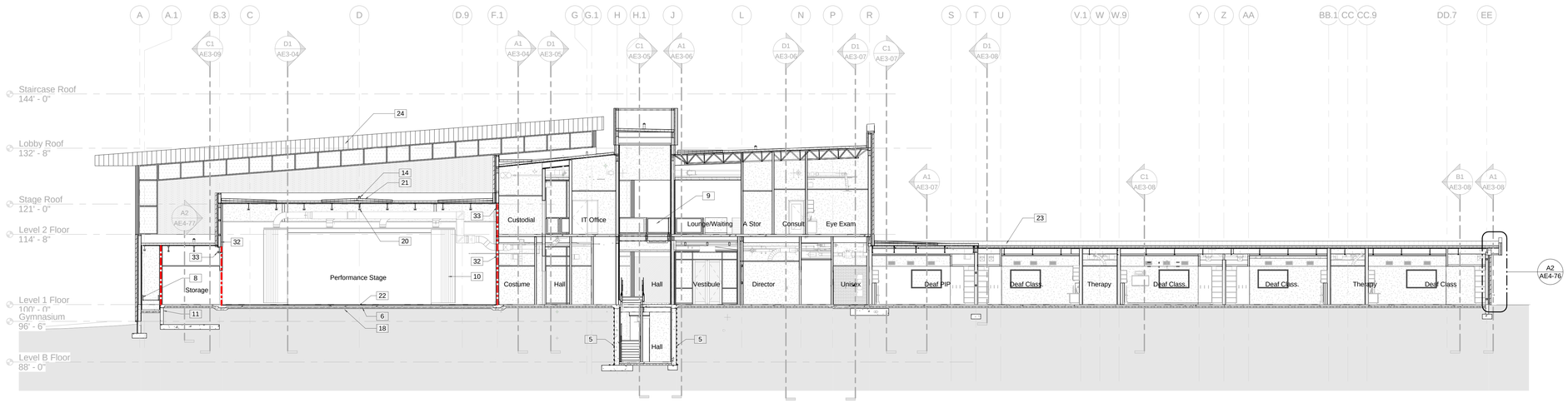
# AE2-02




D1 Section 7
3/32" = 1'-0"




C1 Section 25
3/32" = 1'-0"




A1 Section 8
3/32" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Electronic Scoreboard Furnished By Owner, Installed By Contractor. Provide backing as required |
| 2 | Sliding Aluminum-Framed Glass Doors |
| 3 | Recessed AED Cabinet |
| 4 | Flat Panel Screen - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 5 | Apply Waterproofing To Foundation Wall. Wrap Down And Lap Over Footing A Minimum Of 12". Cover With Drainage Board |
| 6 | Vapor Retarder |
| 7 | Fully Welded Frame Fabricated From HSS 2"X2x3/16" Stainless Steel. Grind All Welds Smooth |
| 8 | 1 1/2" Stainless Steel Tube Railing |
| 9 | Frame Fabricated From Stainless Steel 1X1x1/8" Angle. Weld Frame to 2"X2" Frame as Indicated |
| 10 | Stage Curtain and Track. Furnished By Owner, Installed By Contractor |
| 11 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 12 | Provide Recess in Slab for Sliding Door Track |
| 13 | TPO Single Ply White Roof Membrane |
| 14 | Galvanized roof anchor |
| 15 | Glazed opening with Hollow Metal Frame |
| 16 | Painted Projection Area to Remain Clear of Devices. |
| 17 | Short Throw Projector Provided By Owner |
| 18 | 4" Gravel Layer |
| 19 | 2-1/4"X 15 -1/2" X 3-5/8" Brick. Refer To Elevations for Color |
| 20 | Paint Exposed Structure, Ducts, Conduits, And Metal Deck Above Suspended Clouds. |
| 21 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 22 | 4" Concrete Slab On Grade with Thickened Edge at Perimeter |
| 23 | KEE Membrane Over Base Layer of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 24 | Metal Composite Wall Panel |
| 25 | 8 Ft. High Wire Mesh Partition With 3'-0" X 8'-0" Gates. Brace Top Of Partition To Building Structure Above. |
| 26 | Stainless Steel Handrails with 1-1/2" dia. Top Rail & 1" Dia. Children's Rail. |
| 27 | Stainless Steel Railing Bracket With 1/2" Thick X 2" Dia. Rosette. Anchor to Stud Wall. Cope Glass Wall Cladding For Installation Of Rosette. |
| 28 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |
| 29 | 2" Rigid R10 Foundation Insulation |
| 30 | Plastic Laminate Over Glass Mat Sheathing. |
| 31 | Gymnasium Divider Furnished By Owner, Installed By Contractor |
| 32 | Line Of 1 Hour Separation |
| 33 | Spray Applied Fireproofing For 1 Hour Fire Protection |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| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrziewski Designs - 801.582.9747 |

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Eric R. Jacoby
9/21/2015
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### SHEET DATA

Drawn By: Bob
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building, Salt Lake City, Utah 84114 - 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

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|---|---|

### ISSUE/PHASE

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| 2014 10 09 | Schematic Design |
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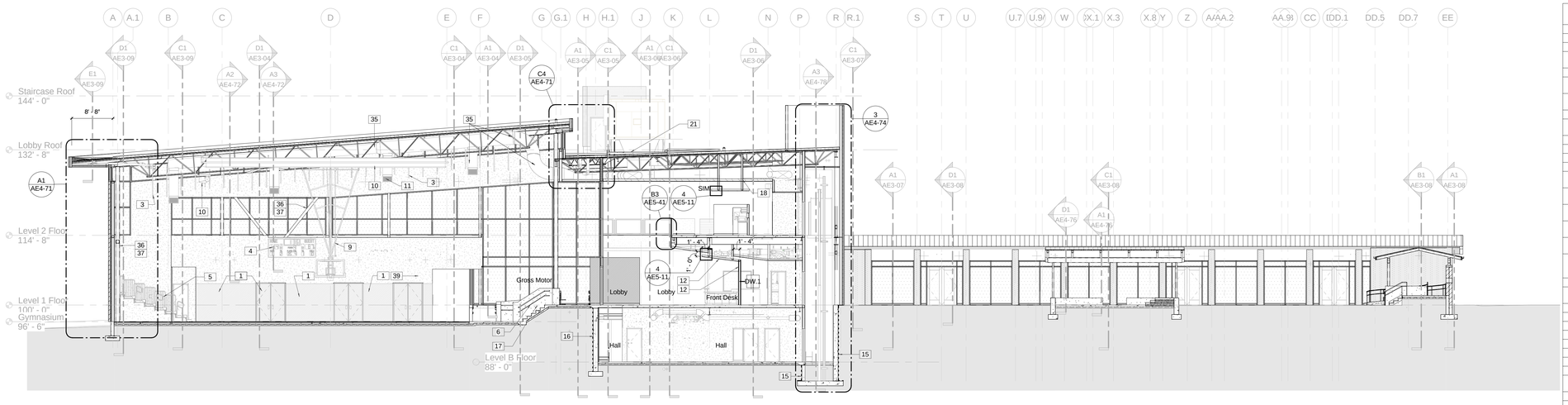
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

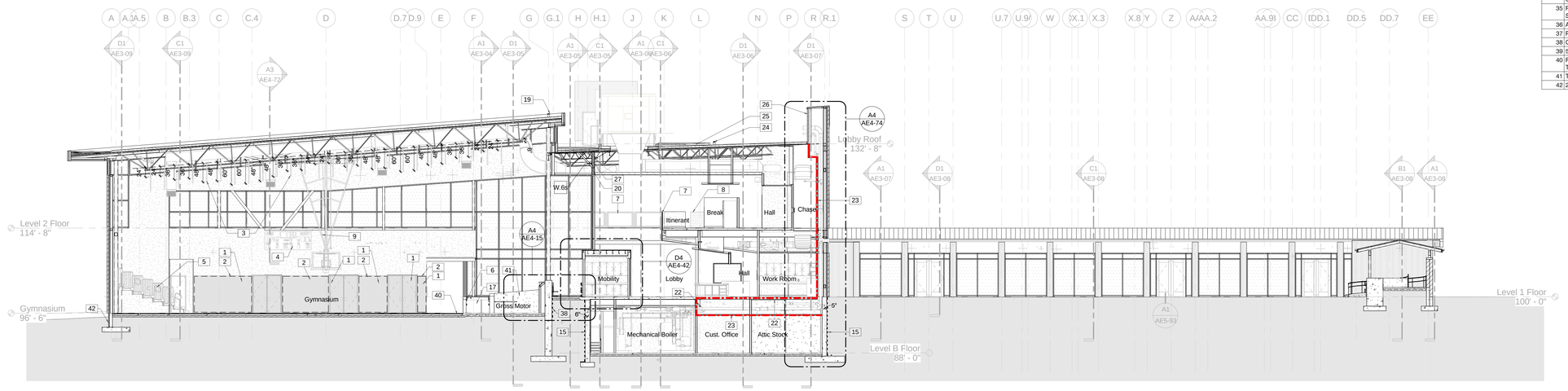
Construction Documents

Building Sections

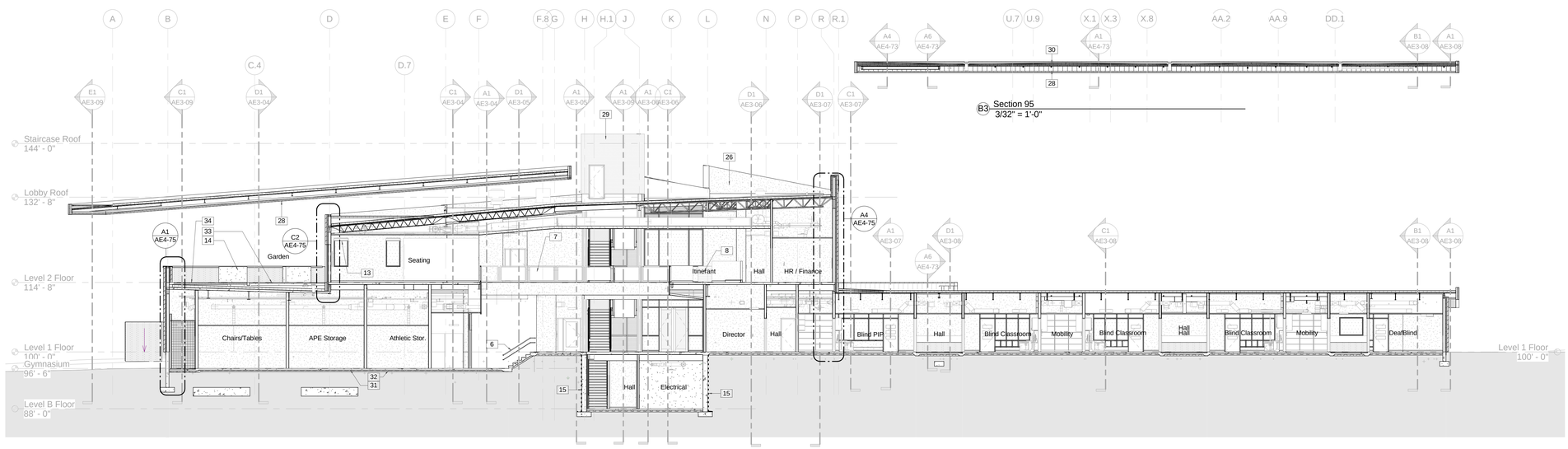
# AE3-01




D1 Section 14
3/32" = 1'-0"




C1 Section 1
3/32" = 1'-0"




A1 Section 6
3/32" = 1'-0"



B3 Section 95
3/32" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Athletic Padding Provided By Owner. Provide Backing As Required |
| 2 | 1/2" Plywood Blocking Zone for Owner Provided Furniture |
| 3 | Ceiling Mounted Sound Absorbing Baffle |
| 4 | Electronic Scoreboard Furnished By Owner, Installed By Contractor. Provide backing as required |
| 5 | Telescoping Gymnasium Seating Provided By Owner |
| 6 | Stainless Steel Handrails with 1-1/2" dia. Top Rail & 1" Dia. Children's Rail. |
| 7 | Decorative Metal Railing with Stainless Steel Support Frame And Wood Grille Infill Panels |
| 8 | Custom Cantilevered Wood Sliding Door |
| 9 | Forward Folding And Adjustable Height Basketball Standard Furnished by Owner, Installed by Contractor. BOD Porter B-950 |
| 10 | Gymnasium Divider Furnished By Owner, Installed By Contractor |
| 11 | Metal Ducts |
| 12 | 1X4 Tongue And Groove Wood Siding |
| 13 | Electrical Operated Roller Window Shades With Metal Valence |
| 14 | 6' X 6' Planter Box Furnished By Owner, Installed By Contractor. Provide Holes In Base Of Planter Box As Required For Irrigation And Drainage. |
| 15 | Apply Waterproofing To Foundation Wall. Wrap Down And Lap Over Footing A Minimum Of 12". Cover With Drainage Board |
| 16 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 17 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |
| 18 | Run Studs All The Way To Deck. Hold Gyp Bd To 4" Above Ceiling Height For Plenum Continuity. |
| 19 | Galvanized Fall Protection Tie In Point. Locate Galvanized Dip Hole At Bottom Of Assembly - See Structural For Connection. See Architectural Roof Plan For Locations. |
| 20 | Metal Stud Bracing |
| 21 | Cast In Place Concrete Equipment Pad 6" Thick Minimum Above Flutes. Refer To Mechanical For Size. |
| 22 | Spray Applied Fireproofing For 1 Hour Fire Protection |
| 23 | Line Of 1 Hour Separation |
| 24 | Galvanized roof anchor |
| 25 | Tapered Insulation below TPO Roof Membrane |
| 26 | TPO Single Ply White Roof Membrane |
| 27 | 6" Unfaced Sound Blanket |
| 28 | Metal Composite Soffit Panels |
| 29 | Metal Composite Wall Panel |
| 30 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 31 | Vapor Retarder |
| 32 | 4" Gravel Layer |
| 33 | 24" Square Concrete Pavers on Pedestals |
| 34 | Vegetated Roof Assembly: Crushed Stone Over Planting Media Over Water Retention Layer Over 6" Xps Insulation Over Root Barrier Over Cold Fluid Applied Waterproofing |
| 35 | Paint Exposed Structure, Ducts, Conduits, And Metal Deck Above Suspended Clouds. |
| 36 | Architecturally Exposed Structural Steel Framing |
| 37 | Paint Exposed Steel Member, Typical |
| 38 | Cold Fluid Applied Waterproofing Membrane |
| 39 | 5/8" Impact Resistant Gypsum Board |
| 40 | Provide 2" Recess In Concrete Slab For Wood Athletic Flooring. Verify Thickness With Flooring Manufacturer. |
| 41 | Thermal and Moisture Protection |
| 42 | 2" Rigid R10 Foundation Insulation |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
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801 363 1434
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### CONSULTANTS

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| Food Service: - | Jedrzewski Designs - 801.582.9747 |

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Eric R. Jacoby
9/21/2015
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### SHEET DATA

Drawn By: Bob

Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building | Salt Lake City, Utah 84114 | 801.538.3018

DFCM # 14190230

DFCM APPROVAL STAMP:

### ADDENDA

| Revision | Date |
|---|---|

### ISSUE/PHASE

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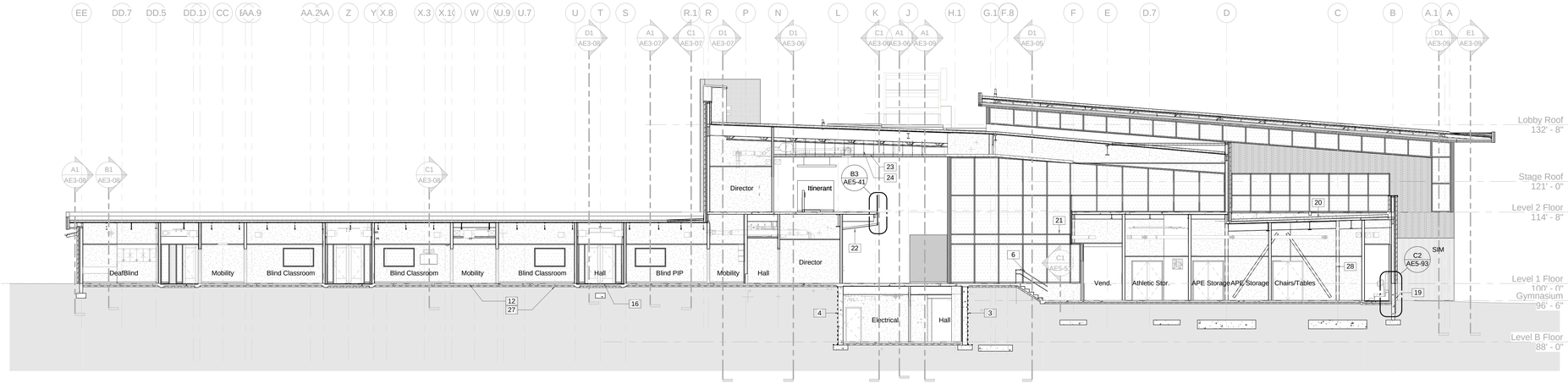
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

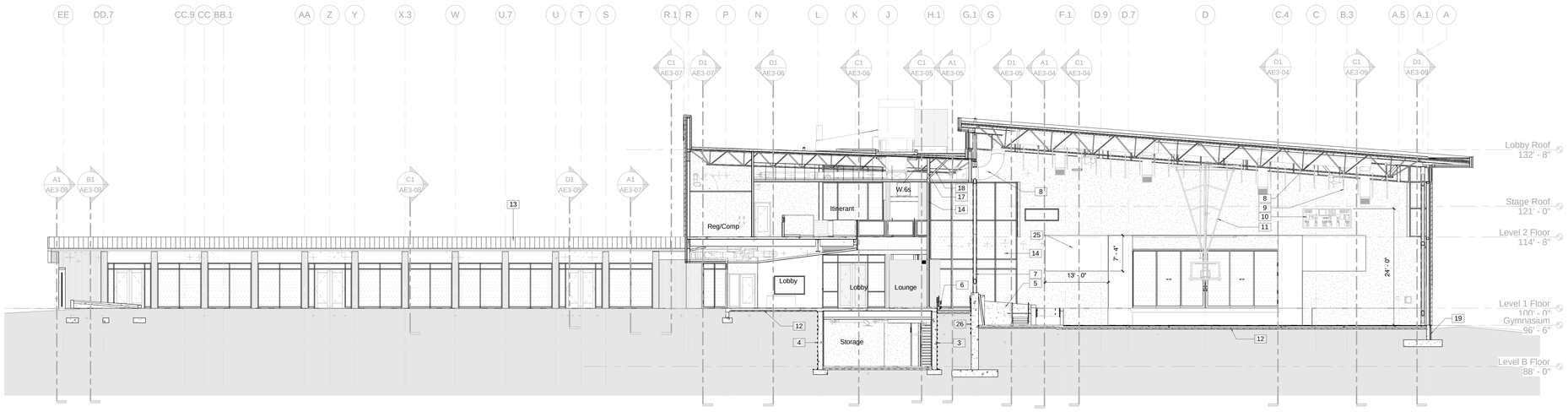
Construction Documents

# Building Sections

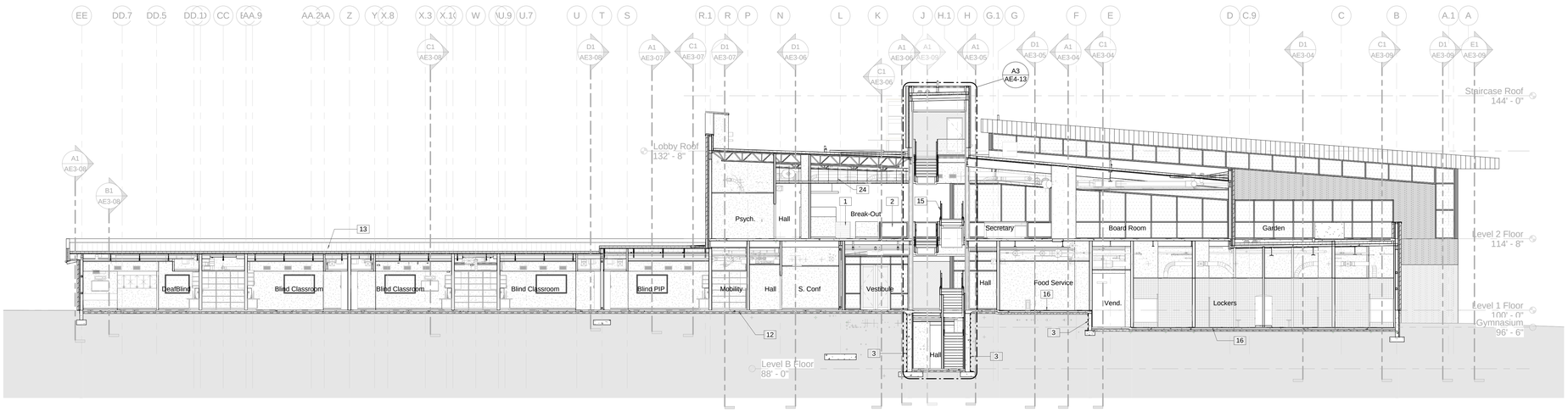
# AE3-02




D1 Section 91
3/32" = 1'-0"




C1 Section 15
3/32" = 1'-0"




A1 Section 23
3/32" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Custom Cantilevered Wood Sliding Door |
| 2 | Decorative Metal Railing with Stainless Steel Support Frame And Wood Grille Infill Panels |
| 3 | Apply Waterproofing To Foundation Wall. Wrap Down And Lap Over Footing A Minimum Of 12". Cover With Drainage Board |
| 4 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 5 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |
| 6 | Stainless Steel Handrails with 1-1/2" dia. Top Rail & 1" Dia. Children's Rail. |
| 7 | Architecturally Exposed Structural Steel Framing |
| 8 | Paint Exposed Structure, Ducts, Conduits, And Metal Deck Above Suspended Clouds. |
| 9 | Ceiling Mounted Sound Absorbing Baffle |
| 10 | Electronic Scoreboard Furnished By Owner, Installed By Contractor. Provide backing as required |
| 11 | Forward Folding And Adjustable Height Basketball Standard Furnished by Owner, Installed by Contractor. BOD Porter B-950 |
| 12 | Vapor Retarder |
| 13 | Adhered Simulated Standing Seam |
| 14 | Interior Glazed Aluminum Curtain Wall System |
| 15 | Cantilevered, Laminated, Tempered, Frosted Glass Assembly |
| 16 | 2" Recess in Slab for Tile Setting Bed |
| 17 | 6" Unfaced Sound Blanket |
| 18 | Metal Stud Bracing |
| 19 | 2" Rigid R10 Foundation Insulation |
| 20 | TPO Single Ply White Roof Membrane |
| 21 | Interior Aluminum Framed Glazing System with Adjustable Throat |
| 22 | 5/8" Gypsum Board On Metal Stud Framing |
| 23 | R-13 Unfaced Sound Blanket |
| 24 | Provide Resilient Hangers At All Ceilings Below Mechanical Room |
| 25 | Painted Projection Area to Remain Clear of Devices. |
| 26 | Cold Fluid Applied Waterproofing Membrane |
| 27 | 4" Gravel Layer |
| 28 | Steel Column refer to Structural |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
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## CONSULTANTS


Architectural: - Jacoby Architects, Inc. - 801.363.1434
Civil: - Meridian Engineering, Inc. - 801.569.1315
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Food Service: - Jedrziewski Designs - 801.582.9747


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Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services

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4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

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## ISSUE/PHASE

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|---|---|
| 2014 10 09 | Schematic Design |
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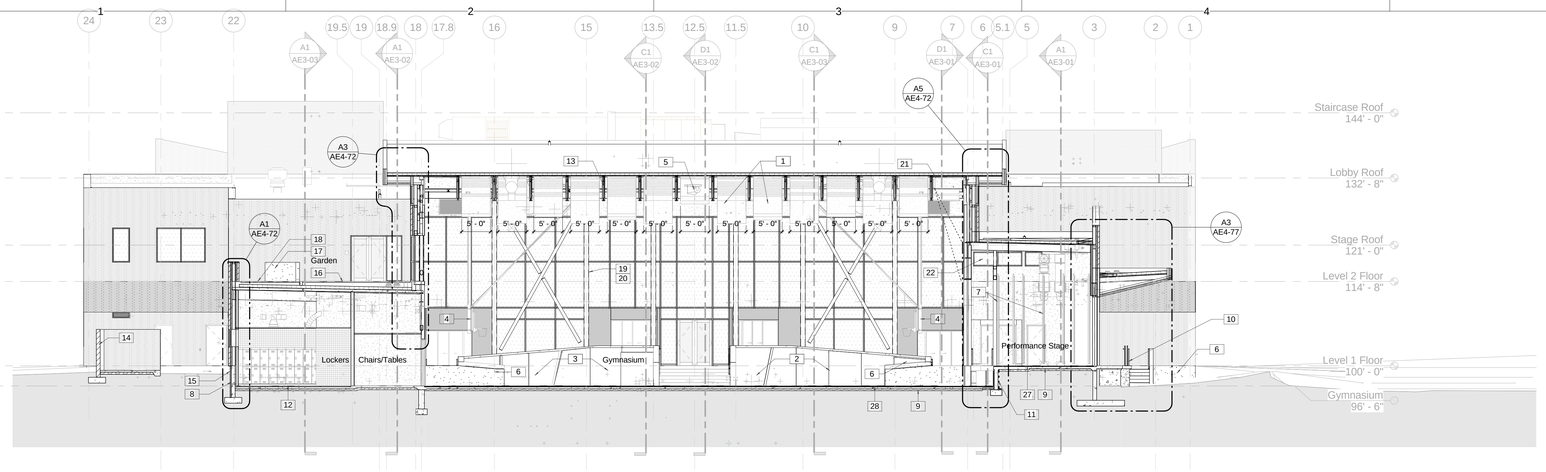
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

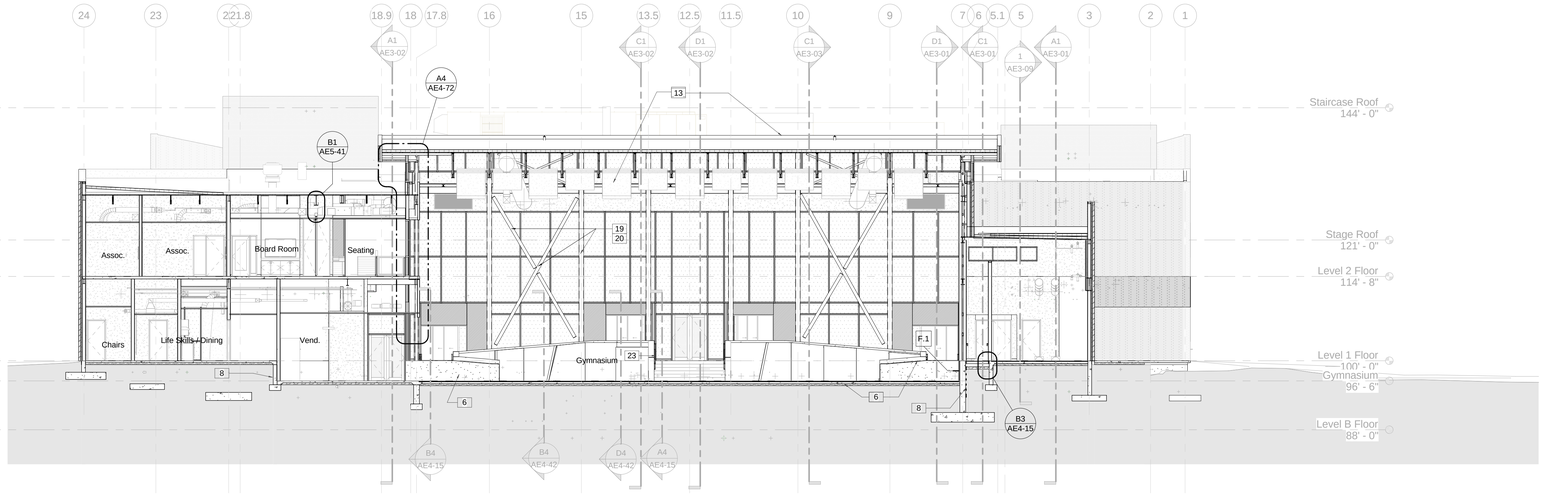
Construction Documents

# Building Sections

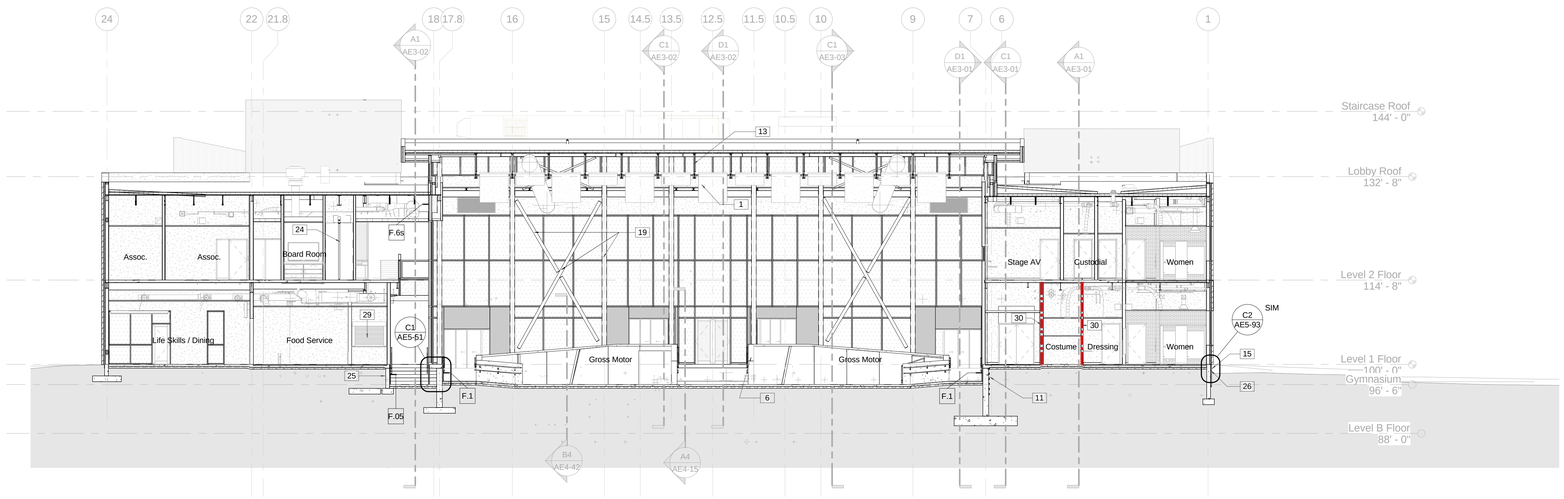
# AE3-03




D1 Section 4
3/32" = 1'-0"




C1 Section 11
3/32" = 1'-0"




A1 Section 12
3/32" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Ceiling Mounted Sound Absorbing Baffle |
| 2 | |
| 3 | Modular Climbing Wall System Furnished By Owner, Installed By Contractor |
| 4 | Forward Folding And Adjustable Height Basketball Standard Furnished by Owner, Installed by Contractor. BOD Porter B-950 |
| 5 | Gymnasium Divider Furnished By Owner, Installed By Contractor |
| 6 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |
| 7 | Stage Curtain and Track. Furnished By Owner, Installed By Contractor |
| 8 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 9 | Vapor Retarder |
| 10 | 1 1/2" Stainless Steel Tube Railing |
| 11 | Cold Fluid Applied Waterproofing Membrane |
| 12 | 2" Recess in Slab for Tile Setting Bed |
| 13 | Paint Exposed Structure, Ducts, Conduits, And Metal Deck Above Suspended Clouds. |
| 14 | 8" Structural Hollow Brick To Match Color Of Building |
| 15 | 0.010" Prefinished Aluminum Protection Panel. Extend A Minimum of 3" Below Finish Grade |
| 16 | 24" Square Concrete Pavers on Pedestals |
| 17 | 6' X 6' Planter Box Furnished By Owner, Installed By Contractor. Provide Holes In Base Of Planter Box As Required For Irrigation And Drainage. |
| 18 | Vegetated Roof Assembly: Crushed Stone Over Planting Media Over Water Retention Layer Over 6" Xps Insulation Over Root Barrier Over Cold Fluid Applied Waterproofing |
| 19 | Architecturally Exposed Structural Steel Framing |
| 20 | Paint Exposed Steel Member, Typical |
| 21 | Short Throw Projector Provided By Owner |
| 22 | Glazed opening with Hollow Metal Frame |
| 23 | Stainless Steel Handrails with 1-1/2" dia. Top Rail & 1" Dia. Children's Rail. |
| 24 | Continuously Hinged Operable Partition In Recess |
| 25 | Apply Waterproofing To Foundation Wall. Wrap Down And Lap Over Footing A Minimum Of 12". Cover With Drainage Board |
| 26 | 2" Rigid R10 Foundation Insulation |
| 27 | 1-1/2" Recess in Floor Slab For Wood Flooring |
| 28 | Provide 2" Recess In Concrete Slab For Wood Athletic Flooring. Verify Thickness With Flooring Manufacturer. |
| 29 | Overhead Coiling Counter Door |
| 30 | Line Of 1 Hour Separation |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### SHEET DATA

Drawn By: Bob
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

| Revision | Date |
|---|---|

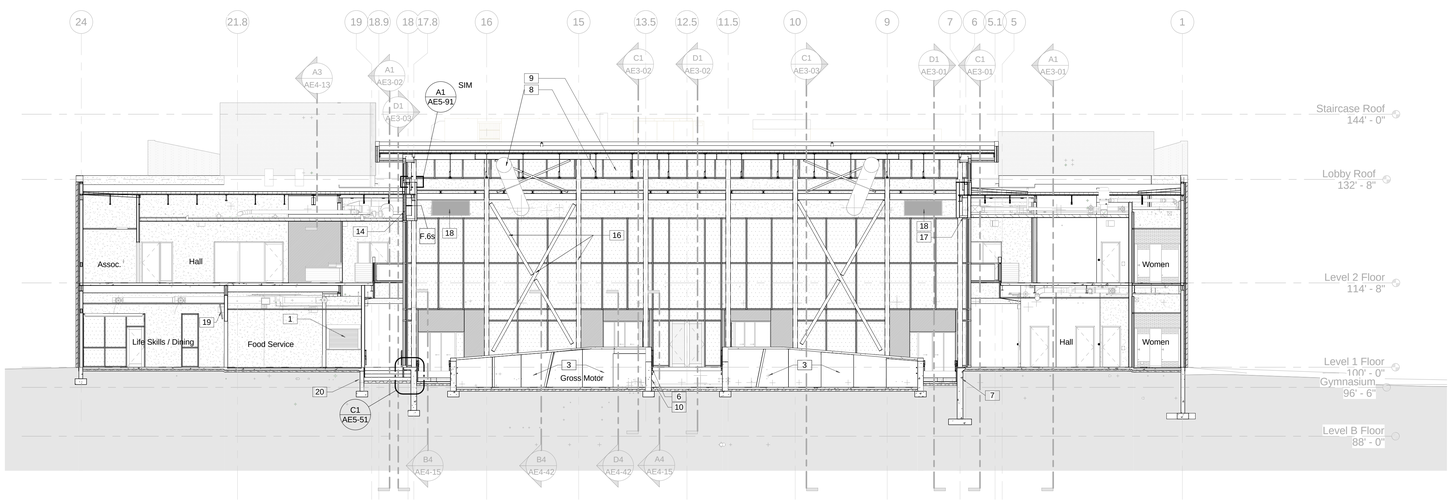
### ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

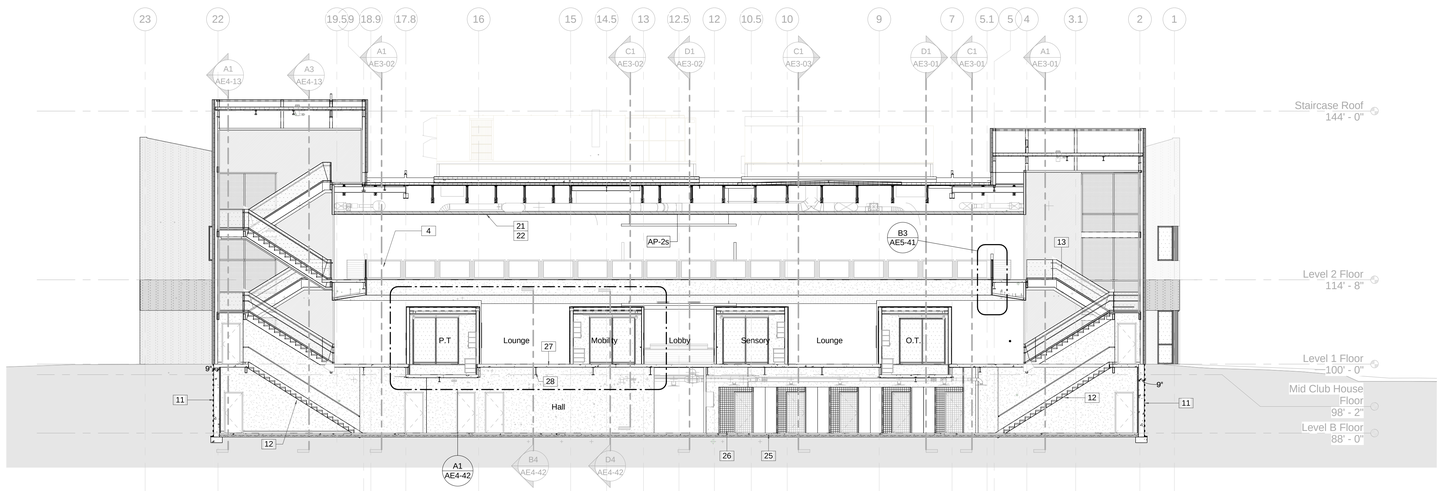
Construction Documents

Building Sections

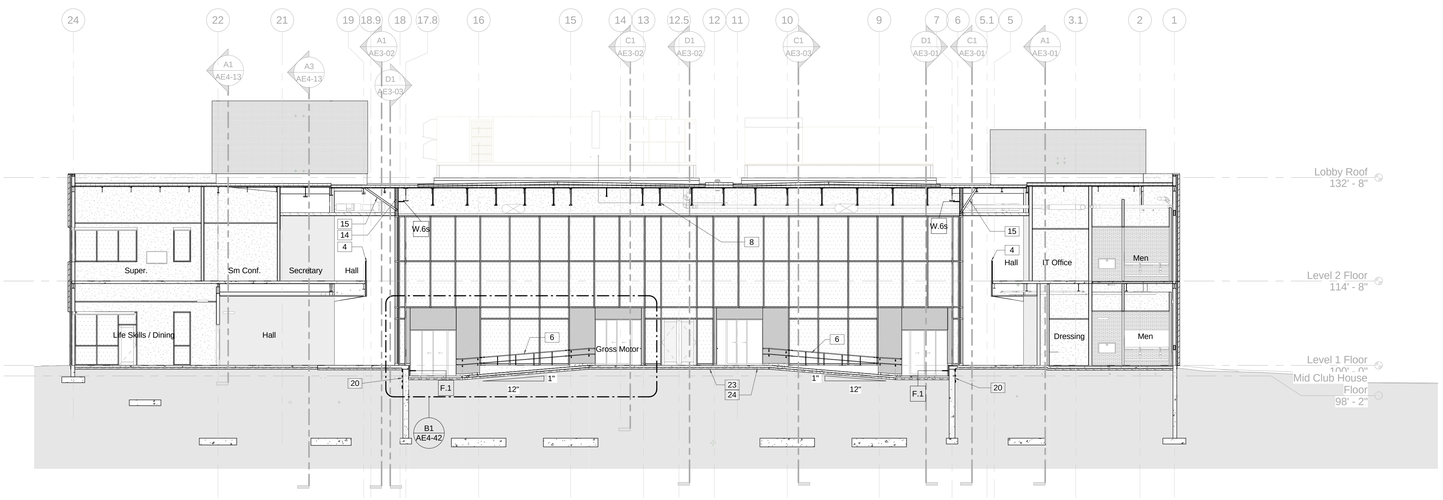
AE3-04




D1 Section 9
3/32" = 1'-0"




C1 Section 5
3/32" = 1'-0"




A1 Section 16
3/32" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Overhead Coiling Counter Door |
| 2 | |
| 3 | Climbing Walls Furnished By Owner, Installed By Contractor |
| 4 | Decorative Metal Railing with Stainless Steel Support Frame And Wood Grille Infill Panels |
| 5 | Custom Cantilevered Wood Sliding Door |
| 6 | Stainless Steel Handrails with 1-1/2" dia. Top Rail & 1" Dia. Children's Rail. |
| 7 | Cold Fluid Applied Waterproofing Membrane |
| 8 | Paint Exposed Structure, Ducts, Conduits, And Metal Deck Above Suspended Clouds. |
| 9 | Ceiling Mounted Sound Absorbing Baffle |
| 10 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |
| 11 | Apply Waterproofing To Foundation Wall. Wrap Down And Lap Over Footing A Minimum Of 12". Cover With Drainage Board |
| 12 | 5/8" Gypsum Board |
| 13 | Cantilevered, Laminated, Tempered, Frosted Glass Assembly |
| 14 | 6" Unfaced Sound Blanket |
| 15 | Metal Stud Bracing |
| 16 | Architecturally Exposed Structural Steel Framing |
| 17 | Suspended 5/8" Gypsum Board Ceiling |
| 18 | Mechanical Louver, Refer To Mechanical Drawings |
| 19 | Flat Panel Screen - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 20 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 21 | R-13 Unfaced Sound Blanket |
| 22 | Provide Resilient Hangers At All Ceilings Below Mechanical Room |
| 23 | Vapor Retarder |
| 24 | 4" Gravel Layer |
| 25 | Storage Shelving Provided By Owner |
| 26 | 8 Ft. High Wire Mesh Partition With 3'-0" X 8'-0" Gates. Brace Top Of Partition To Building Structure Above. |
| 27 | Suspended Composite Concrete Slab, Refer To Structural Drawings |
| 28 | Steel Beam refer to Structural |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

| | |
|---|---|
| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrzewski Designs - 801.582.9747 |

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STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT


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### PROJECT

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**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
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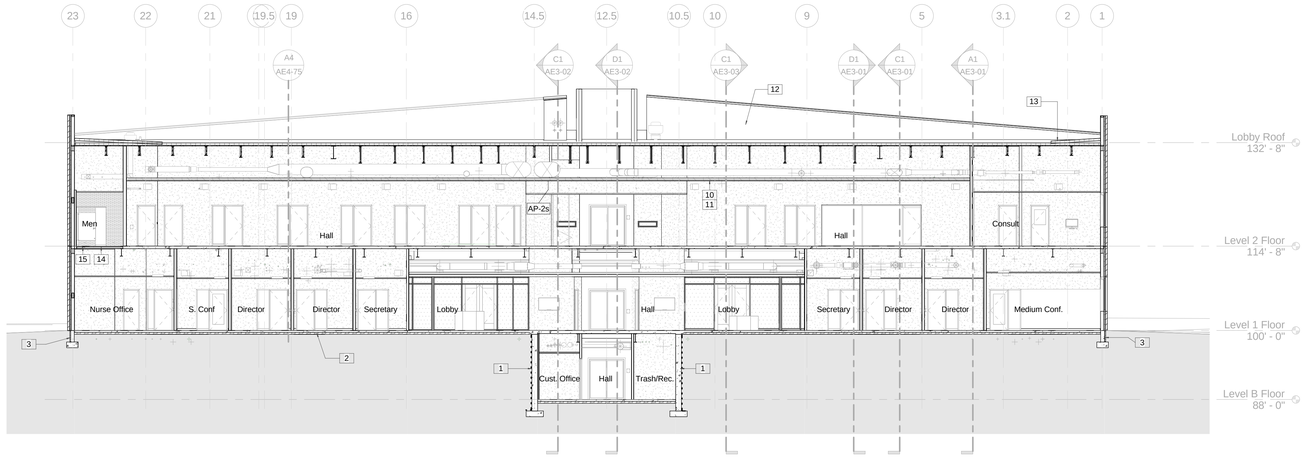
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

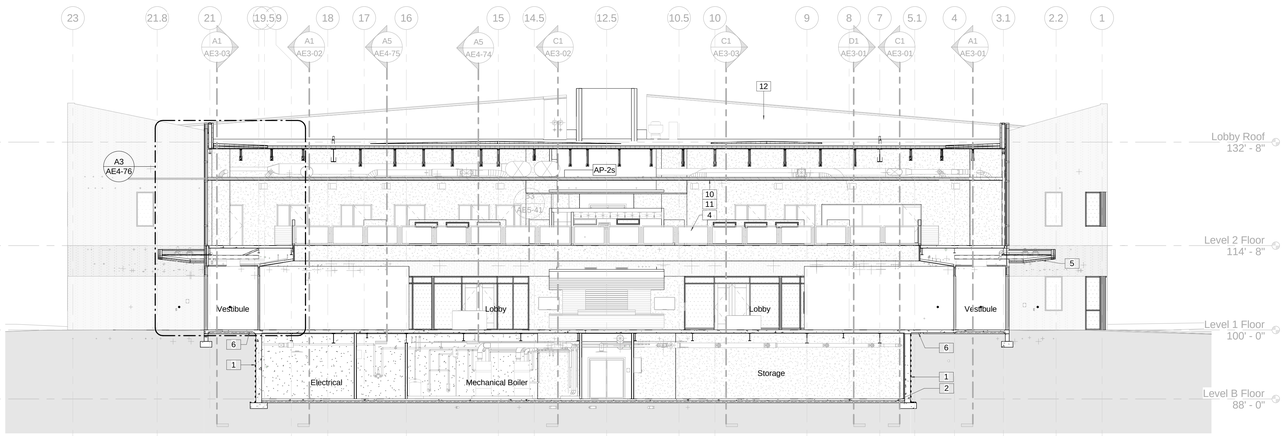
Construction Documents

Building Sections

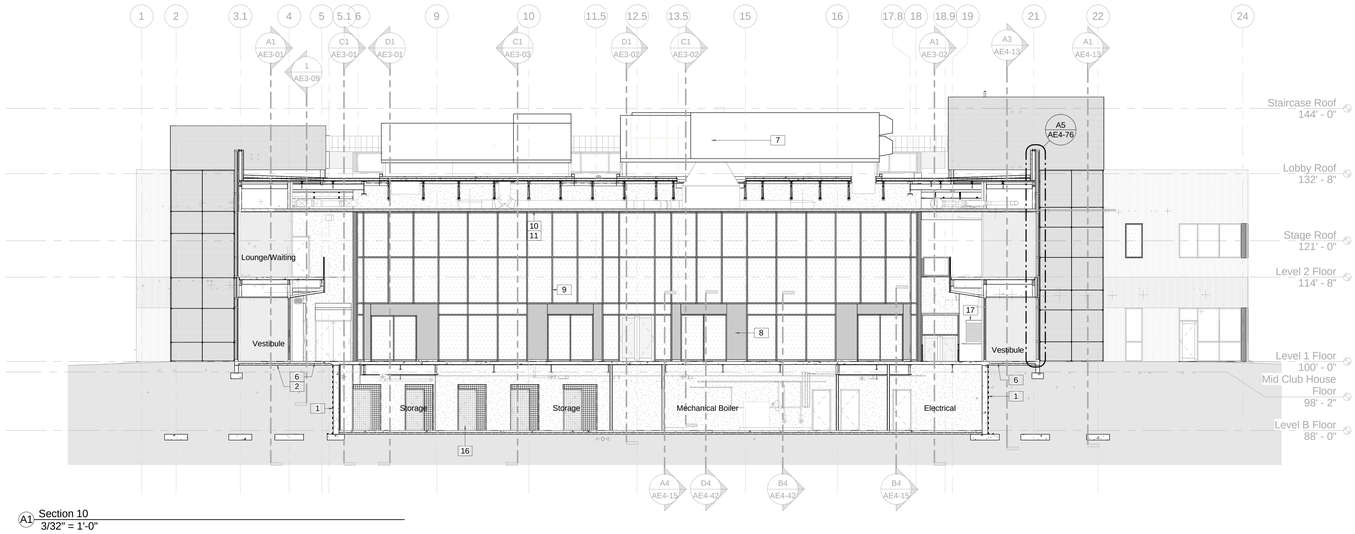
# AE3-05




D1 Section 20
3/32" = 1'-0"




C1 Section 3
3/32" = 1'-0"




A1 Section 10
3/32" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Apply Waterproofing To Foundation Wall. Wrap Down And Lap Over Footing A Minimum Of 12". Cover With Drainage Board |
| 2 | 4" Gravel Layer |
| 3 | 2" Rigid R10 Foundation Insulation |
| 4 | Decorative Metal Railing with Stainless Steel Support Frame And Wood Grille Infill Panels |
| 5 | Metal Composite Soffit Panels |
| 6 | Vapor Retarder |
| 7 | Mechanical Equipment, Refer to Mechanical Drawings |
| 8 | 1/4" Spandrel Glass Adhered To Substrate. Polish All Exposed Edges |
| 9 | Interior Glazed Aluminum Curtain Wall System |
| 10 | Provide Resilient Hangers At All Ceilings Below Mechanical Room |
| 11 | R-13 Unfaced Sound Blanket |
| 12 | TPO Single Ply White Roof Membrane |
| 13 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 14 | Recess Suspended Slab For Tile Setting Bed |
| 15 | Waterproof Membrane |
| 16 | 8 Ft. High Wire Mesh Partition With 3'-0" X 8'-0" Gates. Brace Top Of Partition To Building Structure Above. |
| 17 | Overhead Coiling Counter Door |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

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| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
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Eric R. Jacoby
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Checked By: Checker

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State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

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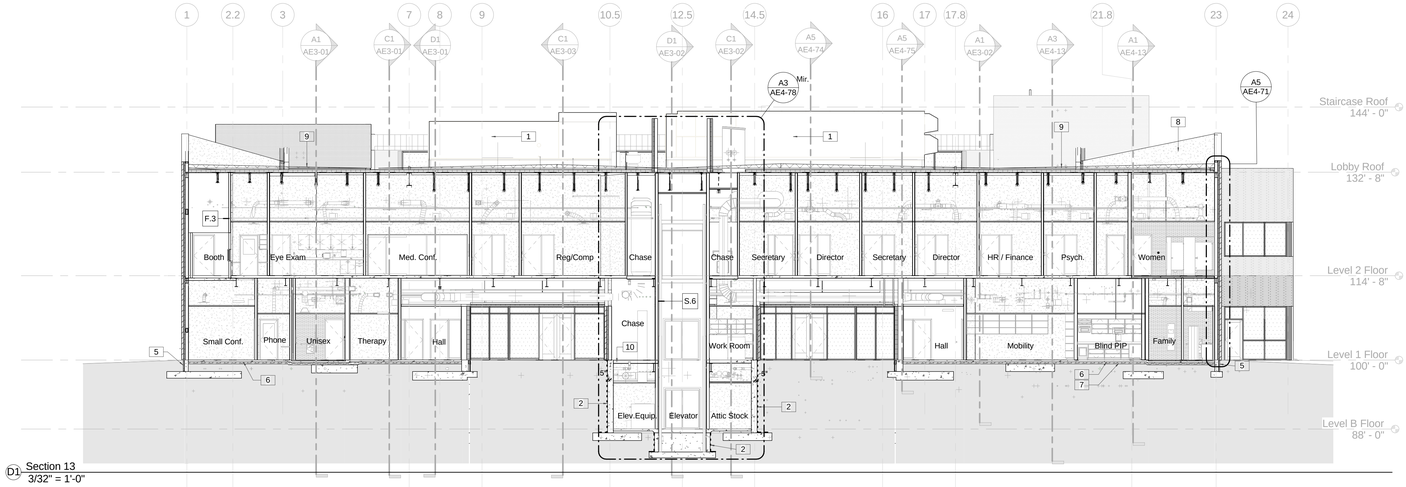
Construction Documents

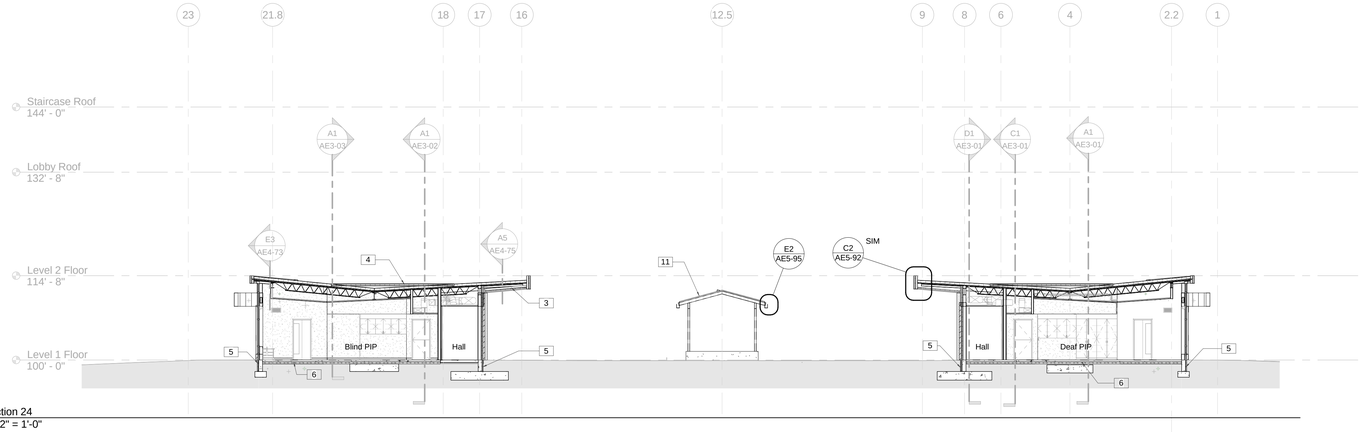
Building Sections

AE3-06

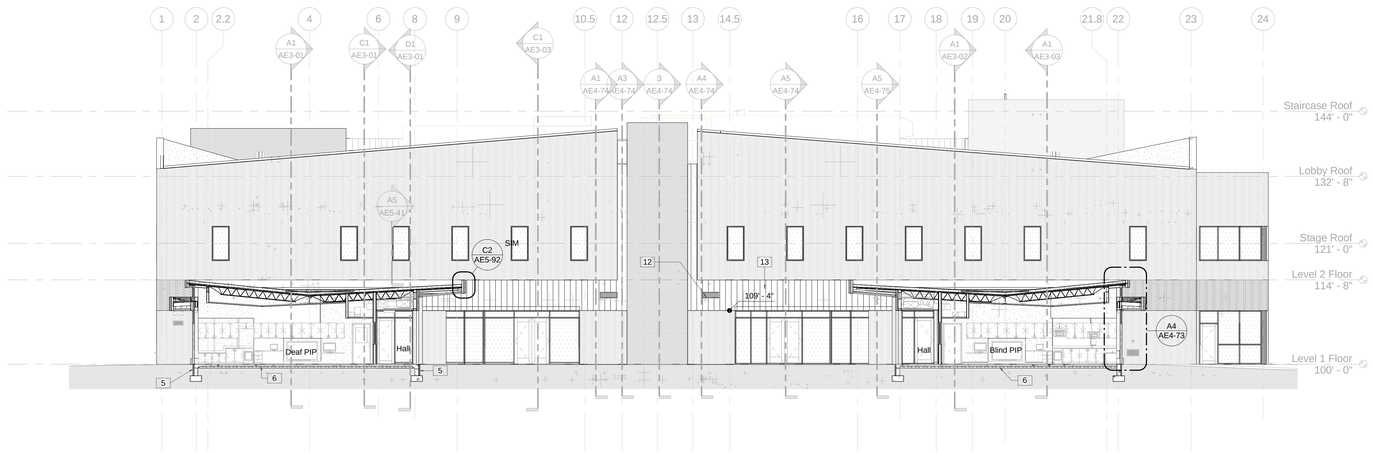
| Keynote Legend | |
|---|---|
| 1 | Mechanical Equipment, Refer to Mechanical Drawings |
| 2 | Apply Waterproofing To Foundation Wall. Wrap Down And Lap Over Footing A Minimum Of 12". Cover With Drainage Board |
| 3 | Metal Composite Soffit Panels |
| 4 | KEE Membrane Over Base Layer of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 5 | 2" Rigid R10 Foundation Insulation |
| 6 | Vapor Retarder |
| 7 | 4" Gravel Layer |
| 8 | TPO Single Ply White Roof Membrane |
| 9 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 10 | Metal Stud Floor Assembly With Gypsum Wall Board On Top And Bottom. Fire Caulk All Penetrations |
| 11 | KEE Membrane Over 1/4" Cover Board Over Roof Deck |
| 12 | Mechanical Louver, Refer To Mechanical Drawings |
| 13 | Metal Composite Wall Panel |




D1 Section 13
3/32" = 1'-0"




C1 Section 24
3/32" = 1'-0"




A1 Section 36
3/32" = 1'-0"


JACOBY ARCHITECTS

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CONSULTANTS

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| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
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SHEET DATA

Drawn By: Bob
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

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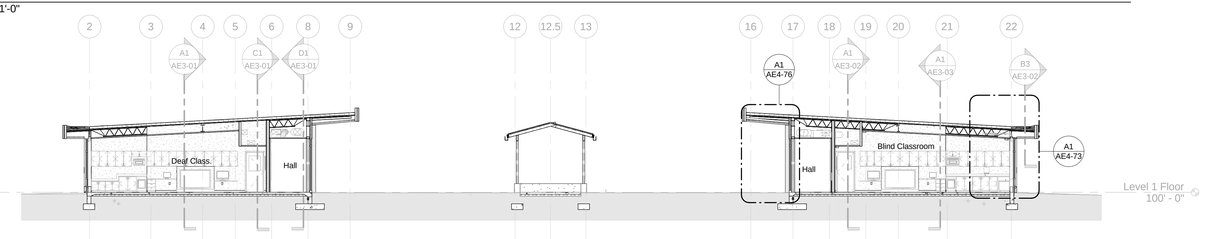
Construction Documents

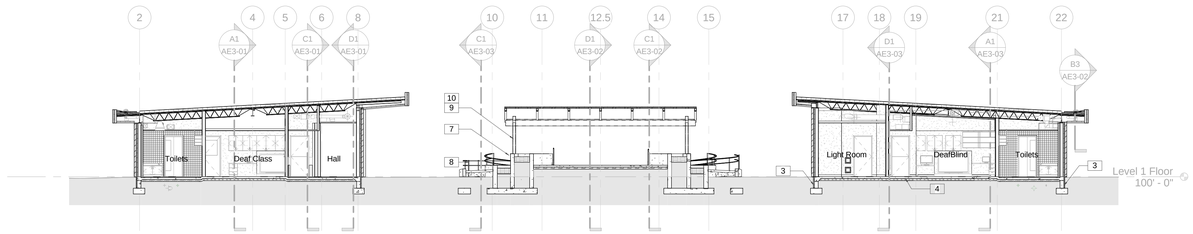
Building Sections

AE3-07

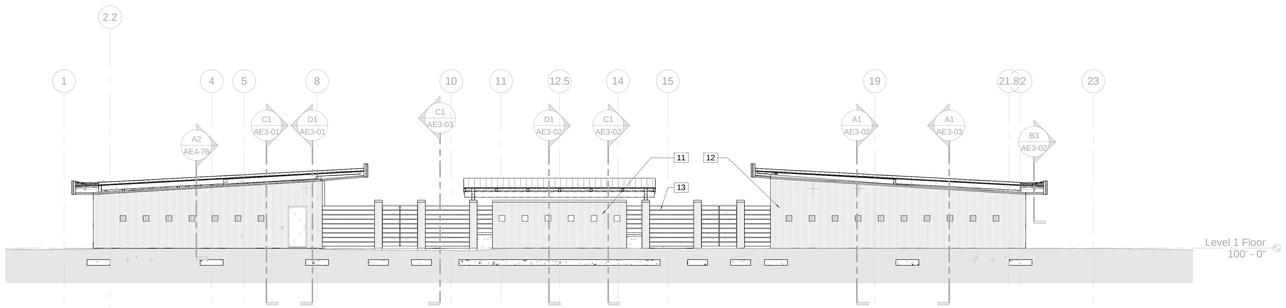
D1 Section 84
3/32" = 1'-0"




C1 Section 2
3/32" = 1'-0"




B1 Section 19
3/32" = 1'-0"




A1 Section 22
3/32" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Metal Composite Wall Panel |
| 2 | Metal Composite Soffit Panels |
| 3 | 2" Rigid R10 Foundation Insulation |
| 4 | Vapor Retarder |
| 5 | Mechanical Louver, Refer To Mechanical Drawings |
| 6 | Adhered Simulated Standing Seam |
| 7 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |
| 8 | 1" Stainless Steel Tube Railing |
| 9 | Architecturally Exposed Structural Steel Framing |
| 10 | High Performance Coating On Steel, Refer To Structural Drawings For Size Of Members. |
| 11 | 8" Structural Hollow Brick To Match Color Of Building |
| 12 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 13 | 2" X 8" IPE WOOD SLATS |
| 14 | TPO Single Ply White Roof Membrane |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

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No. 6380412
Eric R. Jacoby
9/21/2015
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### PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

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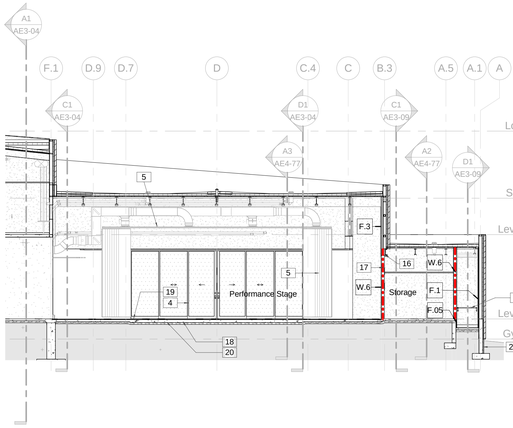
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

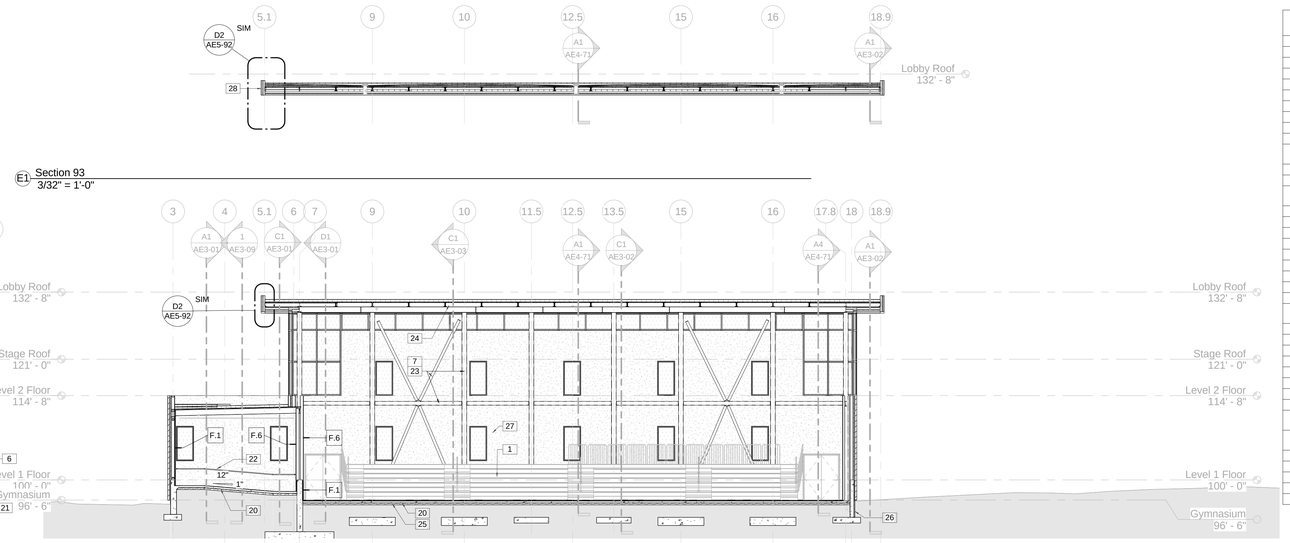
Construction Documents

Building Sections

AE3-08

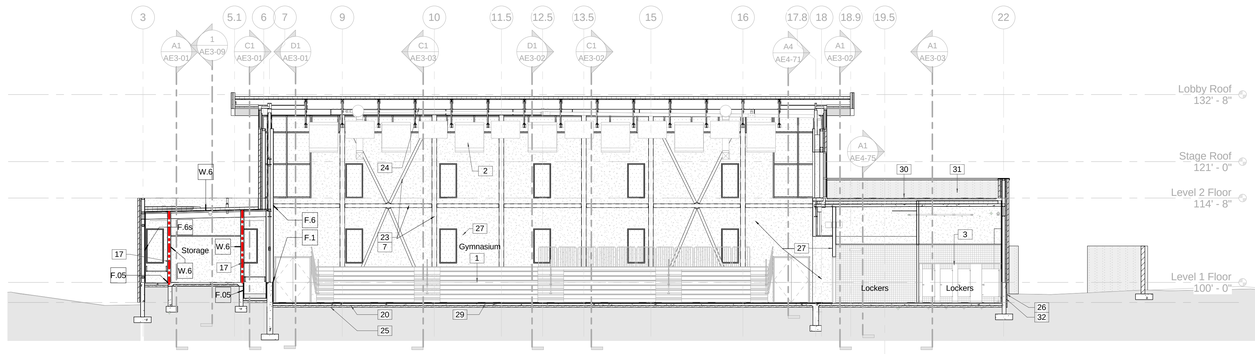



1 Section 123
3/32" = 1'-0"

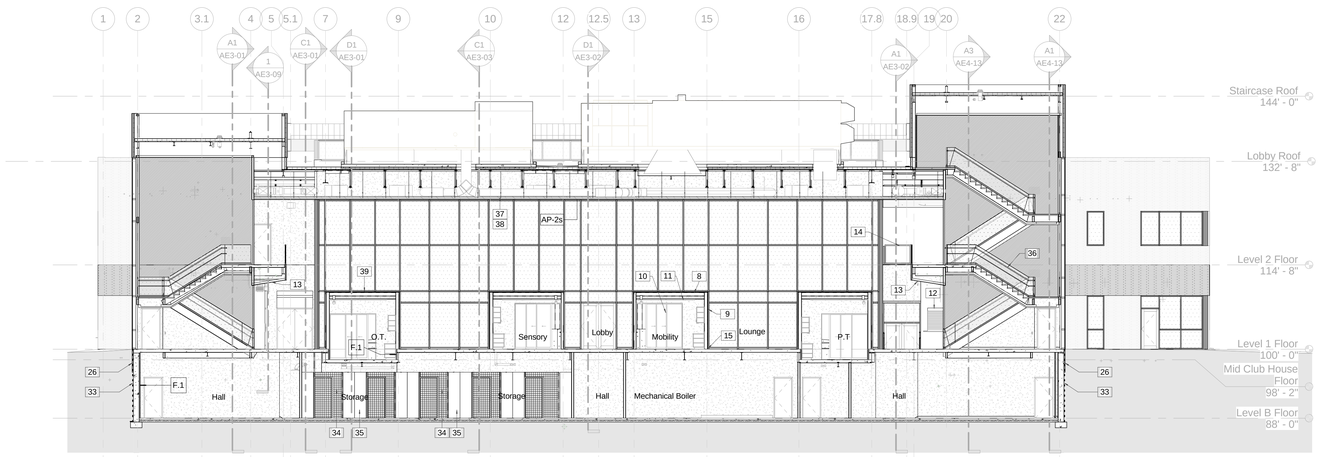



E1 Section 93
3/32" = 1'-0"

D1 Section 74
3/32" = 1'-0"




C1 Section 56
3/32" = 1'-0"




A1 Section 63
3/32" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Telescoping Gymnasium Seating Provided By Owner |
| 2 | Ceiling Mounted Sound Absorbing Baffle |
| 3 | Overhead braced toilet partition. |
| 4 | Sliding Aluminum-Framed Glass Doors |
| 5 | Stage Curtain and Track. Furnished By Owner, Installed By Contractor |
| 6 | 1 1/2" Pipe Handrail. Painted |
| 7 | Paint Exposed Steel Member, Typical |
| 8 | Carpet |
| 9 | 1/4" Spandrel Glass Adhered To Substrate. Polish All Exposed Edges |
| 10 | Sliding Mall Front Door. Refer To Door Schedule. |
| 11 | 1-5/8" Unistrut Channel Suspend From Cold Formed Metal Joists With 1/2" All Thread @ 24" O.C. Max. Paint To Match Ceiling. |
| 12 | Overhead Coiling Counter Door |
| 13 | Suspended 5/8" Gypsum Board Ceiling |
| 14 | Decorative Metal Railing with Stainless Steel Support Frame And Wood Grite Infill Panels |
| 15 | |
| 16 | Spray Applied Fireproofing For 1 Hour Fire Protection |
| 17 | Line Of 1 Hour Separation |
| 18 | 6" Thick Concrete Slab, See Structural |
| 19 | 1 1/2" Recess In Concrete Slab for Wood Flooring |
| 20 | Vapor Retarder |
| 21 | 1 1/2" Rigid Insulation |
| 22 | 1 1/2" Stainless Steel Tube Railing |
| 23 | Architecturally Exposed Structural Steel Framing |
| 24 | Paint Exposed Structure, Ducts, Conduits, And Metal Deck Above Suspended Clouds. |
| 25 | 4" Gravel Layer |
| 26 | 2" Rigid R10 Foundation Insulation |
| 27 | 5/8" Impact Resistant Gypsum Board |
| 28 | Metal Composite Wall Panel |
| 29 | Wood Athletic Flooring |
| 30 | Vegetated Roof Assembly |
| 31 | 2-1/4" X 15 -1/2" X 3-5/8" Brick. Refer To Elevations for Color |
| 32 | Cold Fluid Applied Waterproofing Membrane |
| 33 | Apply Waterproofing To Foundation Wall. Wrap Down And Lap Over Footing A Minimum Of 12". Cover With Drainage Board |
| 34 | 8 Ft. High Wire Mesh Partition With 3'-0" X 8'-0" Gates. Brace Top Of Partition To Building Structure Above. |
| 35 | Storage Shelving Provided By Owner |
| 36 | Cantilevered, Laminated, Tempered, Frosted Glass Assembly |
| 37 | Provide Resilient Hangers At All Ceilings Below Mechanical Room |
| 38 | R-13 Unfaced Sound Blanket |
| 39 | Plastic Laminate Over Glass Mat Sheathing. |


JACOBY ARCHITECTS

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### CONSULTANTS

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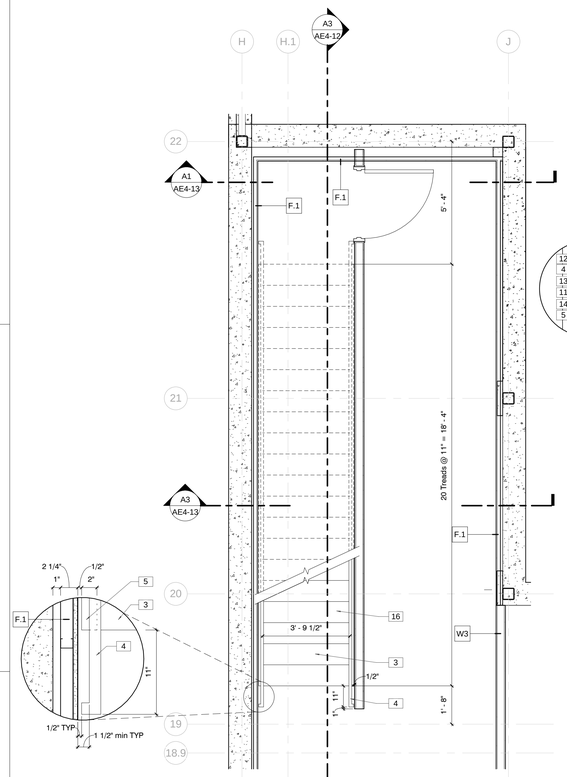
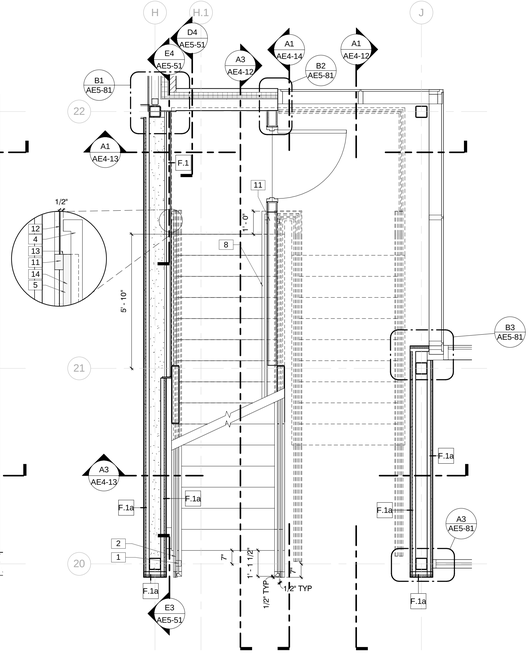
Construction Documents

# Building Sections

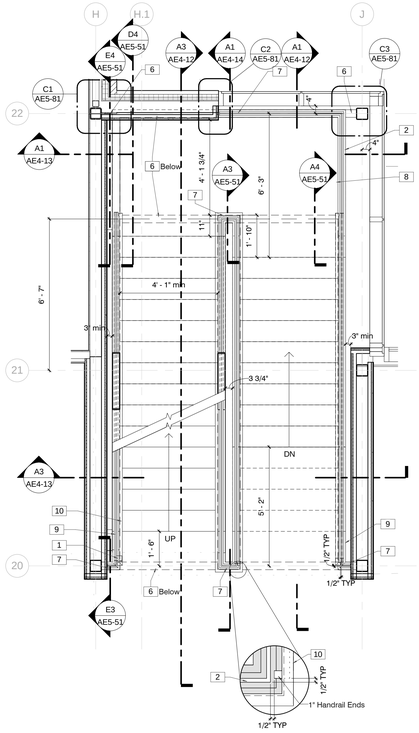
AE3-09



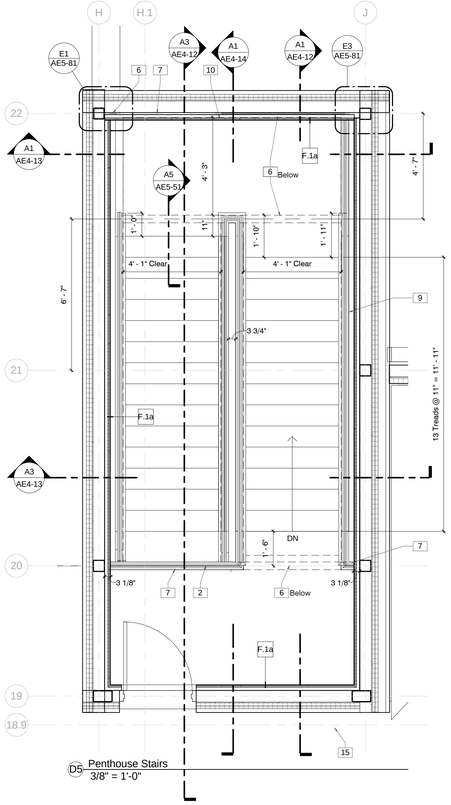

D1 Level B Stairs
3/8" = 1'-0"



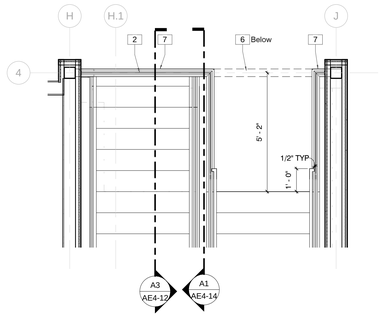

D3 Level 1 Stairs
3/8" = 1'-0"




D4 Level 2 Stairs North
3/8" = 1'-0"




D5 Penthouse Stairs
3/8" = 1'-0"




B4 Level 2 Stairs South
3/8" = 1'-0"

| Keynote Legend | |
|---|---|
| 1 | Wall Mount Stainless Steel Retractable Belt Barrier with Removable Mounting Plate. Provide 10' Red Strap Indicating "Authorized Access Only," Provide Magnetic Belt End. Basis of Design: Visiontron Retracta-Belt. |
| 2 | Cantilevered, Laminated, Tempered, Frosted Glass Assembly |
| 3 | Metal Stairs with Concrete Filled Pans |
| 4 | 1 1/2" Pipe Handrail. Painted |
| 5 | HSS 12" x 2" x 1/4" |
| 6 | HSS 12" x 4" x 1/4" |
| 7 | HSS 4" x 4" x 1/4" |
| 8 | Stainless Steel Handrails Mounted to Glass Baluster. 1-1/2" dia. Top Rail & 1" dia. Children's Rail |
| 9 | HSS 16" x 4" x 1/4" |
| 10 | 1-1/2" Diameter Stainless Steel Handrail Mounted To Glass Baluster |
| 11 | HSS 4" x 2" x 1/4" |
| 12 | Resilient Base As Scheduled |
| 13 | Bondo Gaps and Grind Smooth on Exposed Side of Assembly, TYP |
| 14 | Paint Exposed Steel Member, Typical |
| 15 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 16 | Rubber Tread And Riser |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

| | |
|---|---|
| Architectural: | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrzewski Designs - 801.582.9747 |

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STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT


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SHEET DATA

Drawn By: Kraig
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

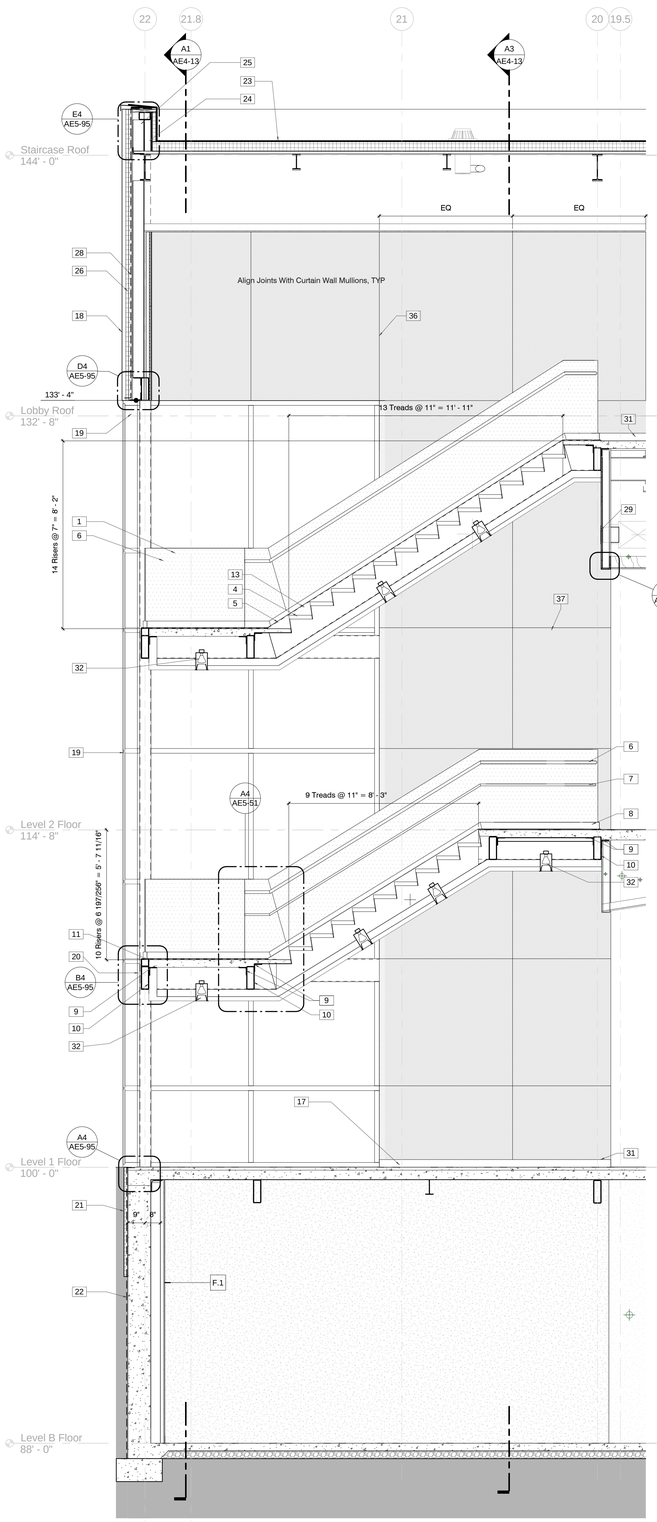
Construction Documents

Enlarged Stair Drawings

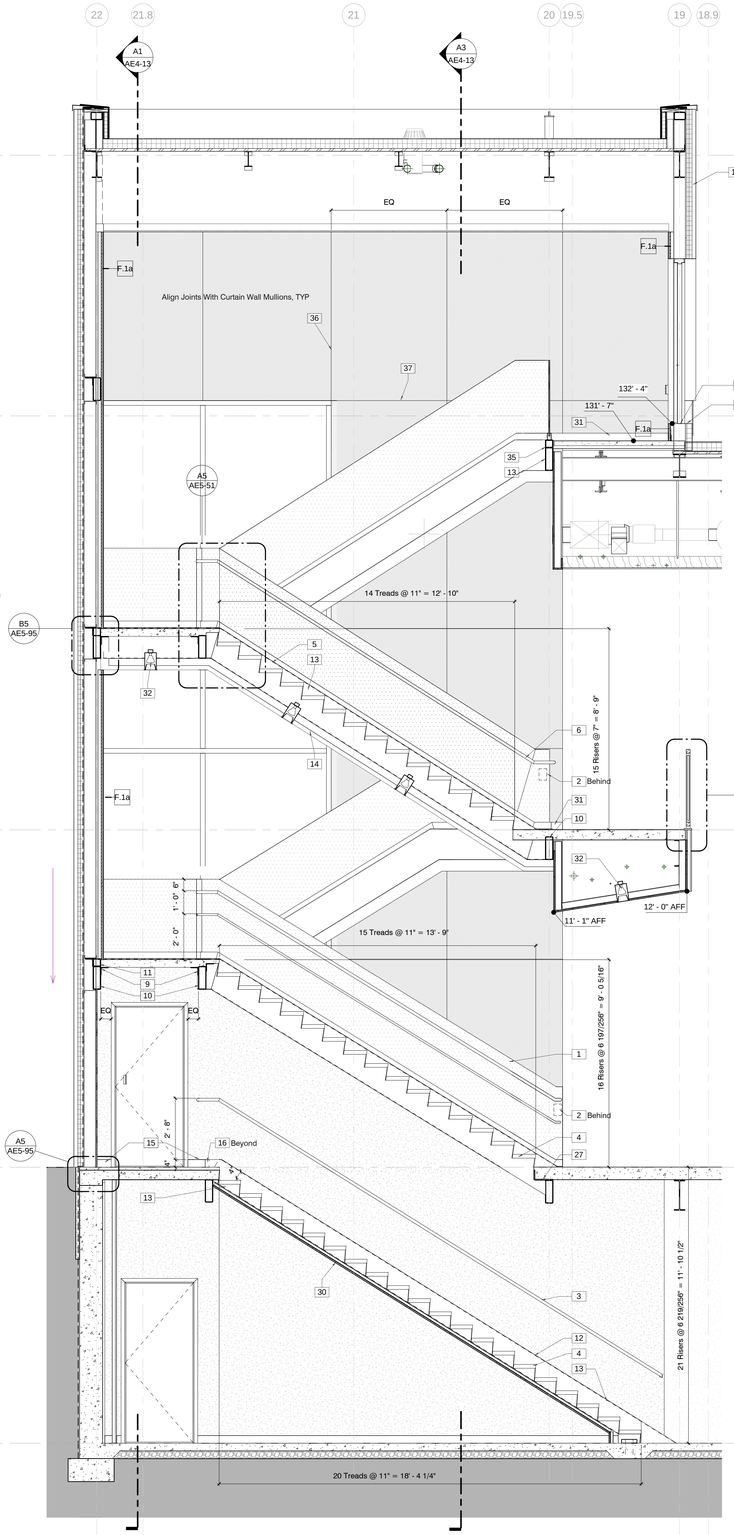
AE4-11

| Keynote Legend | |
|---|---|
| 1 | Cantilevered, Laminated, Tempered, Frosted Glass Assembly |
| 2 | Wall Mount Stainless Steel Retractable Belt Barrier with Removable Mounting Plate. Provide 10' Red Strap Indicating "Authorized Access Only," Provide Magnetic Belt End. Basis of Design: Visiontron Retracta-Belt. |
| 3 | 1 1/2" Pipe Handrail. Painted |
| 4 | Metal Stairs with Concrete Filled Pans |
| 5 | HSS 16" x 4" x 1/4" |
| 6 | 1-1/2" Diameter Stainless Steel Handrail Mounted To Glass Baluster |
| 7 | 1" Diameter Stainless Steel Handrail Mounted to Glass Baluster |
| 8 | Cast Aluminum Support Shoe With 1/2" Plate Welded To Top Of Stringer As Required By Decorative Metal Railing Manufacturer For Glass Assembly. Enclose With Stainless Steel Cladding. |
| 9 | L 4" X 4" x 1/4" |
| 10 | HSS 12" x 4" x 1/4" |
| 11 | HSS 4" x 4" x 1/4" |
| 12 | HSS 12" x 2" x 1/4" |
| 13 | Paint Exposed Steel Member, Typical |
| 14 | Suspended 5/8" Gypsum Board Ceiling |
| 15 | Resilient Base As Scheduled |
| 16 | HSS 4" x 2" x 1/4" |
| 17 | Simulated Wood Flooring, Refer To Finish Schedule. |
| 18 | Metal Composite Wall Panel |
| 19 | 4-Sided Structurally Glazed Aluminum Curtainwall System |

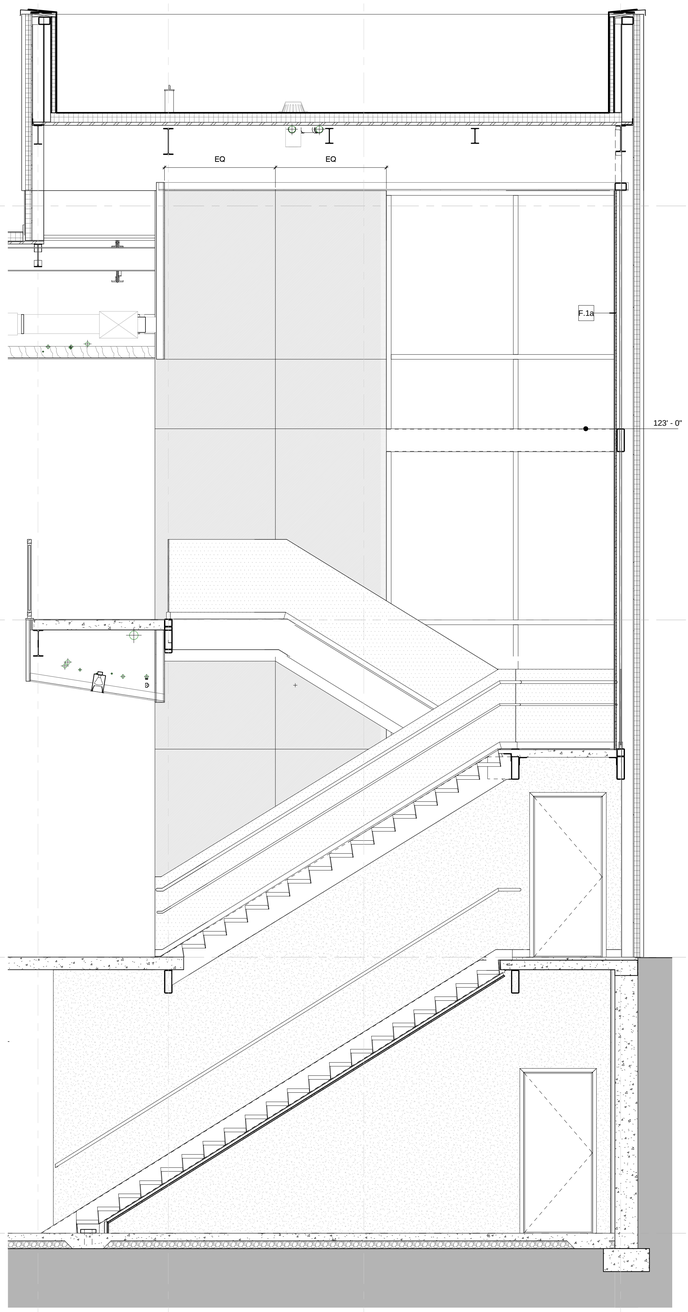
| Keynote Legend | |
|---|---|
| 20 | Pair Of Painted Steel Plates Welded To Adjacent Beam To Accommodate Vertical Deflection, And To Resist Horizontal Movement. Designed and Installed By Curtain Wall Contractor |
| 21 | 2" Rigid R10 Foundation Insulation |
| 22 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 23 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 24 | 3 5/8" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 25 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 26 | 2 Layers 1-1/2" R-5 Per Inch Cavity Insulation With Overlapping, Taped Joints. Total 3" Thickness and R15 |
| 27 | Bent Steel Plate Refer To Structural Drawings |
| 28 | Vapor Impermeable Fluid Applied Air Barrier |
| 29 | Mechanical Louver, Refer To Mechanical Drawings |
| 30 | 5/8" Gypsum Board On Metal Stud Framing |
| 31 | 4" Straight Base. Color To Be Selected By Architect From Full Range Of Colors. |
| 32 | Recessed Light Fixture, refer to Electrical Drawings |
| 33 | Aluminum Threshold |
| 34 | Wrap TPO Membrane Up Curb and Seal To Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Air Barrier |
| 35 | Bondo Gaps and Grind Smooth on Exposed Side of Assembly, TYP |
| 36 | Vertical Butt Joint |
| 37 | Provide 2" X 5/16" X 1/8" Thick Continuous Aluminum Angle Anchored to Wall Studs to support Glass. |




A1 Stair Section
3/8" = 1'-0"




A3 Stair Section
3/8" = 1'-0"





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9/21/2015
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SHEET DATA

Drawn By: Kraig
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
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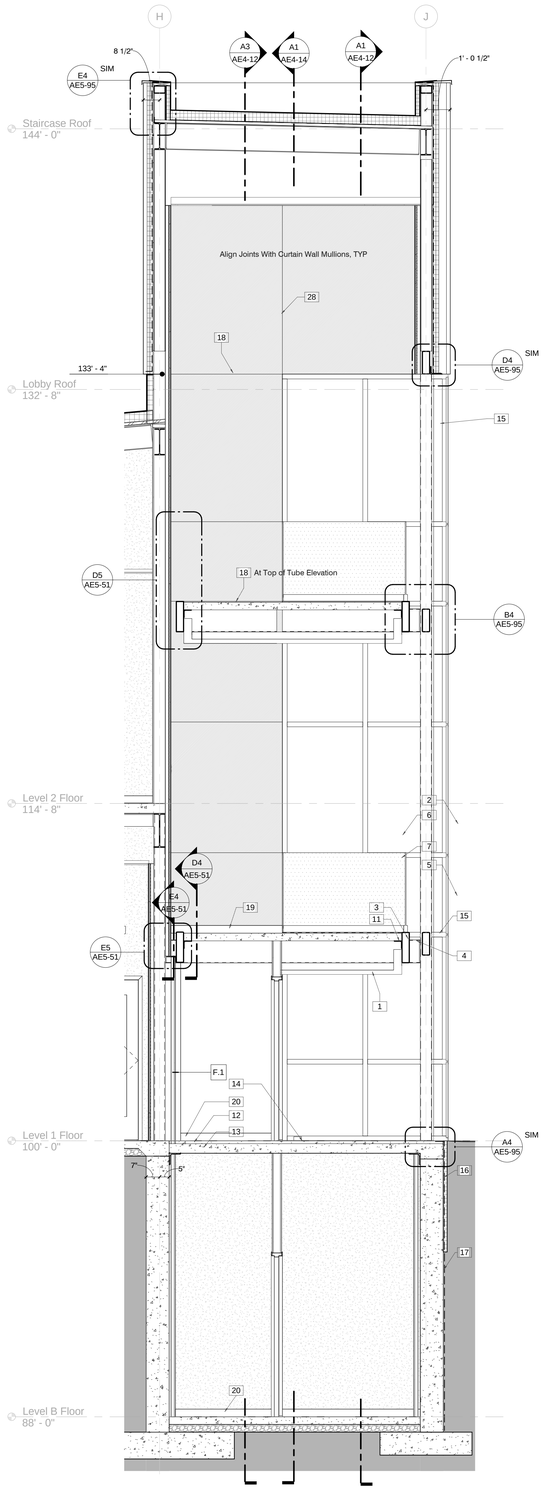
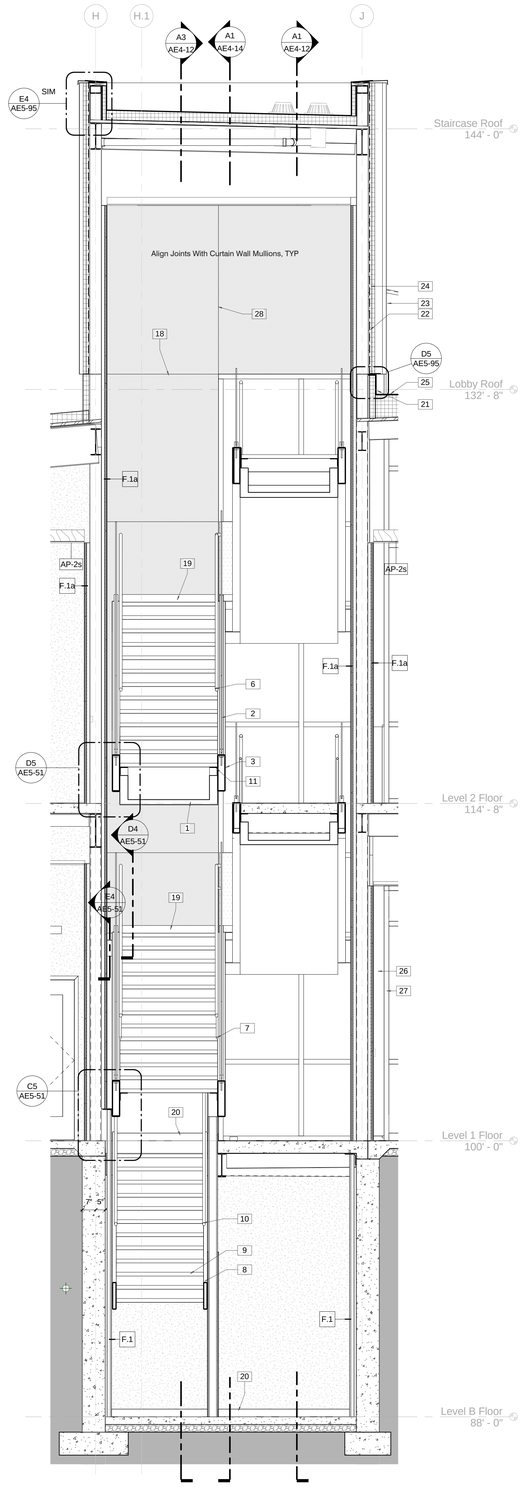
Construction Documents

Enlarged Stair Drawings

AE4-12




A1 Stair Section
3/8" = 1'-0"




A3 Stair Section
3/8" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Suspended 5/8" Gypsum Board Ceiling |
| 2 | Cantilevered, Laminated, Tempered, Frosted Glass Assembly |
| 3 | HSS 16" x 4" x 1/4" |
| 4 | HSS 12" x 4" x 1/4" |
| 5 | Cast Aluminum Support Shoe With 1/2" Plate Welded To Top Of Stringer As Required By Decorative Metal Railing Manufacturer For Glass Assembly, Enclose With Stainless Steel Cladding. |
| 6 | 1-1/2" Diameter Stainless Steel Handrail Mounted To Glass Baluster |
| 7 | 1" Diameter Stainless Steel Handrail Mounted to Glass Baluster |
| 8 | HSS 12" x 2" x 1/4" |
| 9 | Metal Stairs with Concrete Filled Pans |
| 10 | 1 1/2" Pipe Handrail. Painted |
| 11 | L 4" X 4" x 1/4" |
| 12 | Thickened Concrete to Compensate For Change in Floor Level |
| 13 | Suspended Composite Concrete Slab, Refer To Structural Drawings |
| 14 | Simulated Wood Flooring, Refer To Finish Schedule. |
| 15 | 4-Sided Structurally Glazed Aluminum Curtainwall System |
| 16 | 2" Rigid R10 Foundation Insulation |
| 17 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 18 | Provide 2" X 5/16" X 1/8" Thick Continuous Aluminum Angle Anchored to Wall Studs to support Glass. |
| 19 | 4" Straight Base. Color To Be Selected By Architect From Full Range Of Colors. |
| 20 | Resilient Base As Scheduled |
| 21 | Wrap TPO Membrane Up Curb and Seal To Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Air Barrier |
| 22 | Vapor Impermeable Fluid Applied Air Barrier |
| 23 | Metal Composite Wall Panel |
| 24 | 3" Rigid Insulation, Minimum R-5 per Inch. |
| 25 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 26 | Pre-Finished .461" Aluminum Brake Shape to Match Aluminum Curtain Wall System |
| 27 | Glazed Aluminum Framed Curtain Wall System |
| 28 | Vertical Butt Joint |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

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| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrziewski Designs - 801.582.9747 |

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9/21/2015
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### SHEET DATA

Drawn By: Kraig
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

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|---|---|

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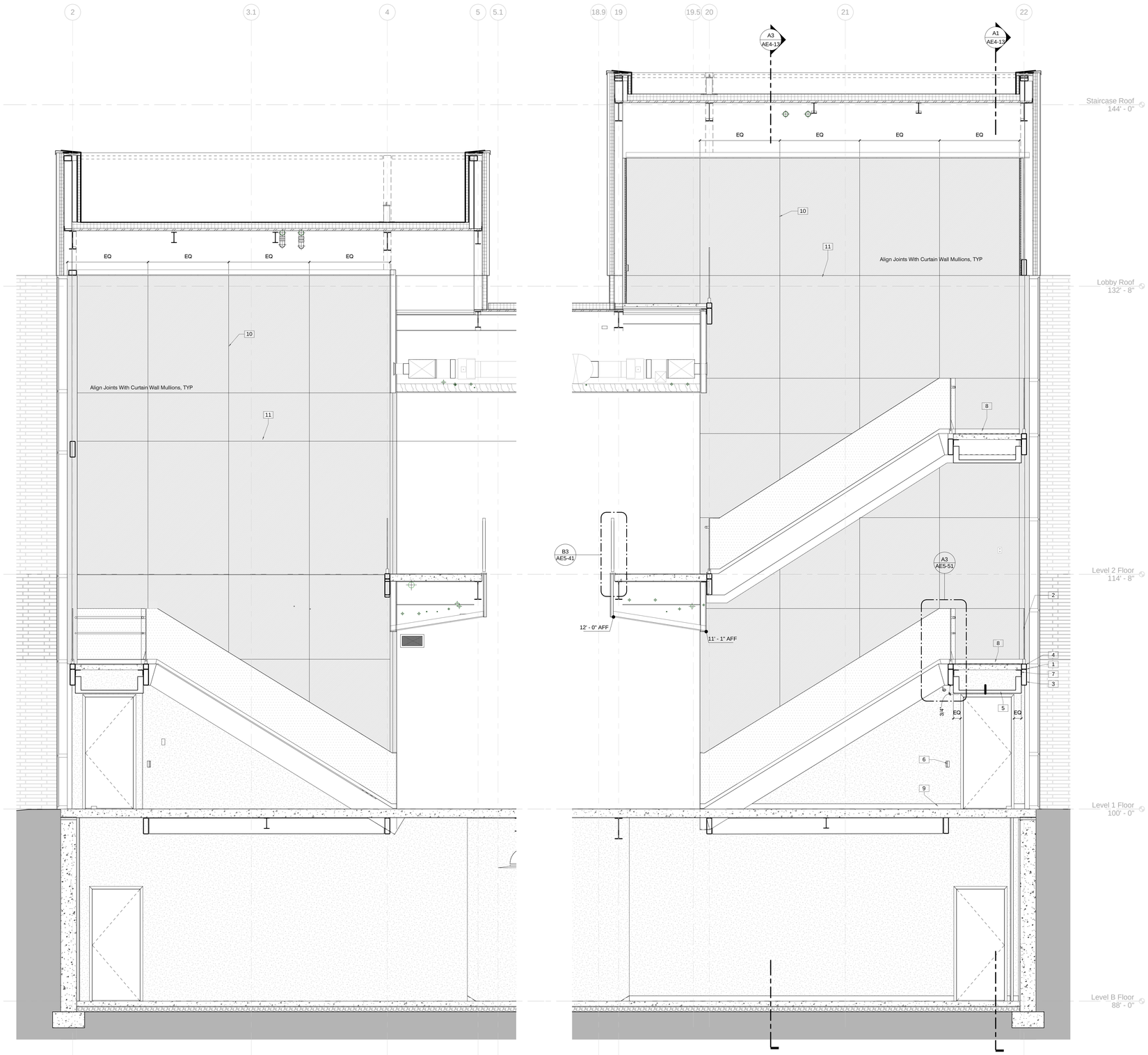
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

# Enlarged Stair Drawings

AE4-13




A1 Stair Section
3/8" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Bondo Gaps and Grind Smooth on Exposed Side of Assembly, TYP |
| 2 | Cantilevered, Laminated, Tempered, Frosted Glass Assembly |
| 3 | HSS 12" x 4" x 1/4" |
| 4 | HSS 4" x 4" x 1/4" |
| 5 | Suspended 5/8" Gypsum Board Ceiling |
| 6 | Card Reader, See Electrical |
| 7 | L 4" X 4" x 1/4" |
| 8 | 4" Straight Base. Color To Be Selected By Architect From Full Range Of Colors. |
| 9 | Resilient Base As Scheduled |
| 10 | Vertical Butt Joint |
| 11 | Provide 2" X 5/16" X 1/8" Thick Continuous Aluminum Angle Anchored to Wall Studs to support Glass. |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
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### PROJECT

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**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building - Salt Lake City, Utah 84114 - 538-3018

DFCM # 14190230
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| 2015 03 13 | 75% Progress Set |
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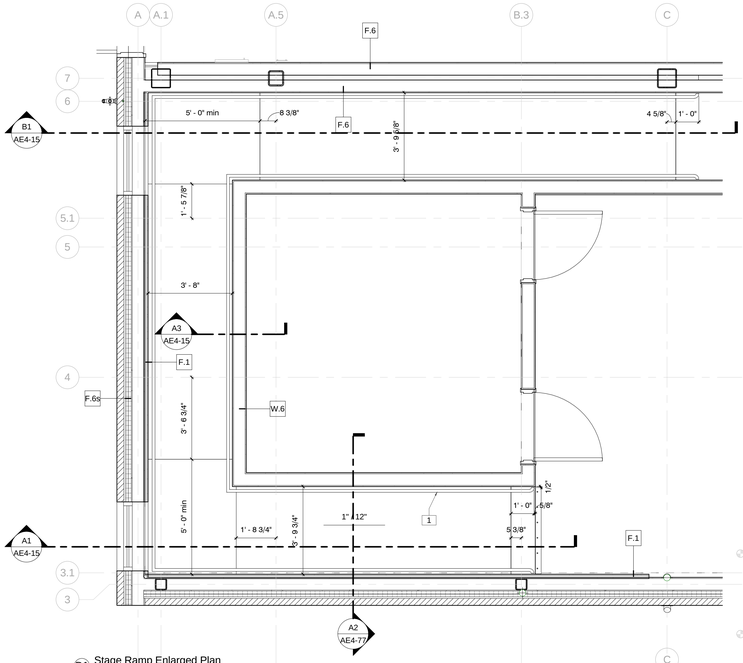
| 2015 05 21 | Bidding Documents |

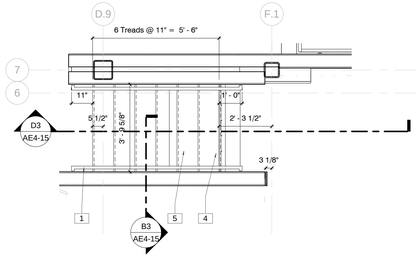
Construction Documents

# Enlarged Stair Drawings

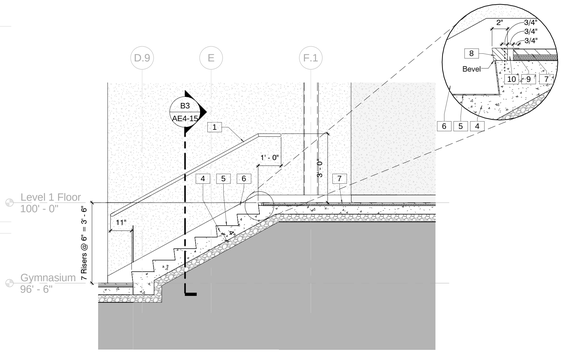
# AE4-14



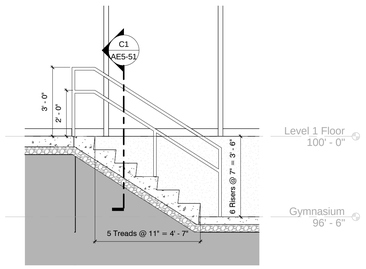

D1 Stage Ramp Enlarged Plan
3/8" = 1'-0"



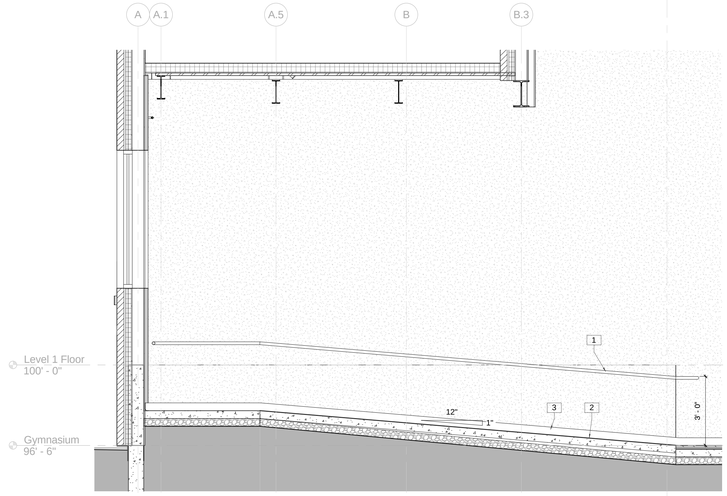

E3 Stage Stairs Enlarged Plan
3/8" = 1'-0"



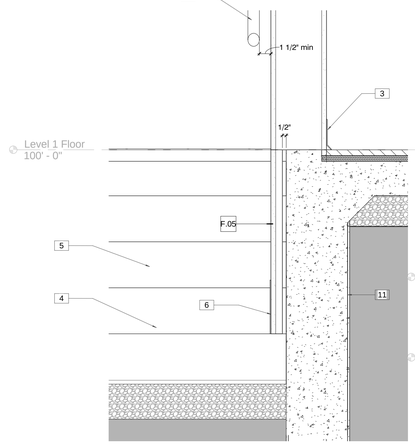

D3 Stage Stairs
3/8" = 1'-0"



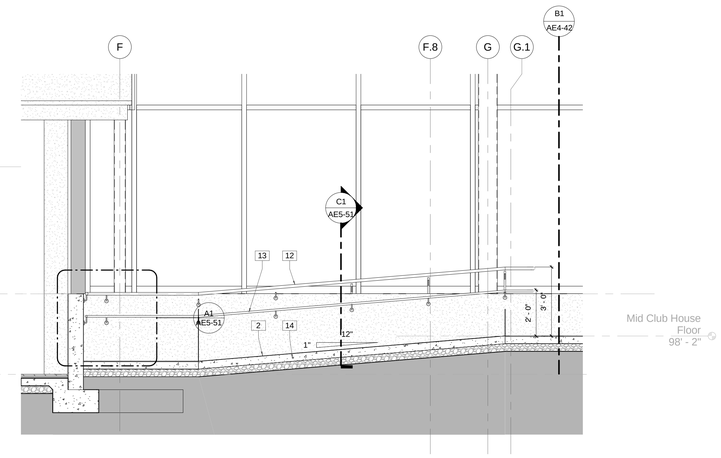

D5 Stairs to Vending Area
3/8" = 1'-0"



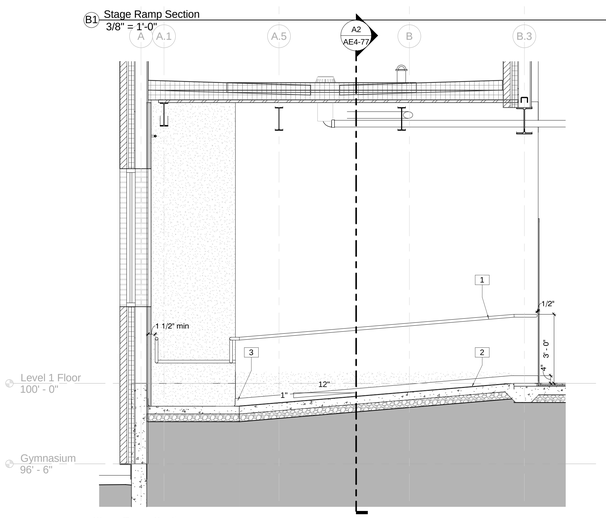

B1 Stage Ramp Section
3/8" = 1'-0"



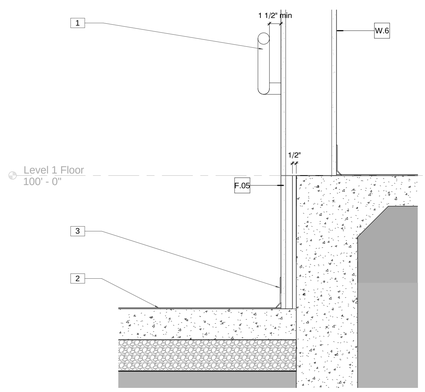

B3 Stage Stair Detail
1 1/2" = 1'-0"



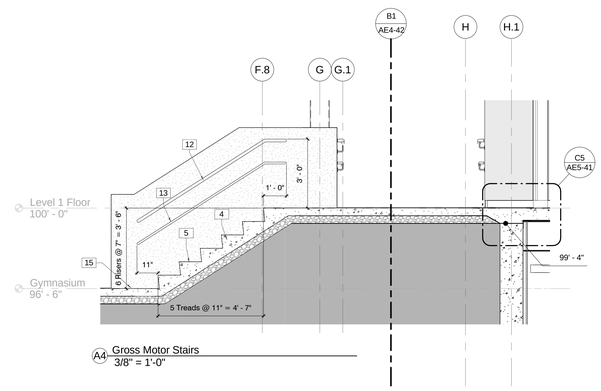

B4 Gross Motor Ramp
3/8" = 1'-0"




A1 Stage Ramp Section
3/8" = 1'-0"




A3 Stage Ramp Detail
1 1/2" = 1'-0"




A4 Gross Motor Stairs
3/8" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | 1 1/2" Pipe Handrail. Painted |
| 2 | Resilient Flooring |
| 3 | Resilient Base As Scheduled |
| 4 | Concrete Stair on Slab |
| 5 | Rubber Tread And Riser |
| 6 | Rubber Stringer |
| 7 | Simulated Wood Flooring. Refer To Finish Schedule. |
| 8 | Metal Nosing |
| 9 | 1/8" Aluminum Transition Strip. Stainless Steel Flathead Screws into Expansion Anchor at 8" OC |
| 10 | Air Gap For Expansion And Contraction |
| 11 | Cold Fluid Applied Waterproofing Membrane |
| 12 | 1 1/2" Stainless Steel Tube Railing |
| 13 | 1" Stainless Steel Tube Railing |
| 14 | 4" Thick Cast In Place Concrete Ramp |
| 15 | Impact Resilient Flooring |


JACOBY ARCHITECTS

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Utah 84111
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Checked By: Checker

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State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building · Salt Lake City, Utah 84114-1204 · 538-3018

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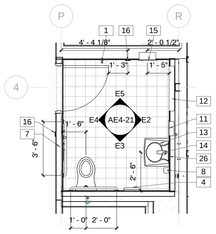
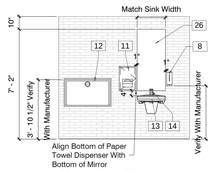
Construction Documents

Enlarged Stair Drawings

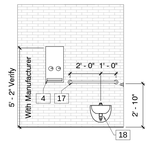
AE4-15



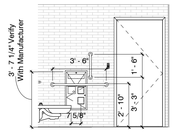
E1 Unisex Toilet Room
1/4" = 1'-0"



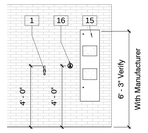

E2 Unisex Toilet Room
1/4" = 1'-0"



E3 Unisex Toilet Room
1/4" = 1'-0"

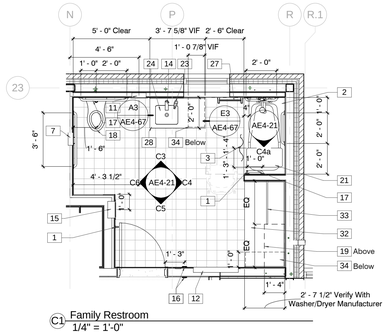


E4 Unisex Toilet Room
1/4" = 1'-0"

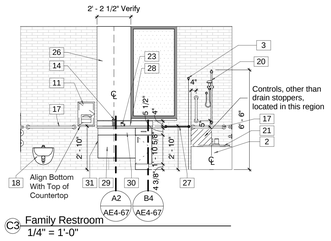


E5 Unisex Toilet Room
1/4" = 1'-0"

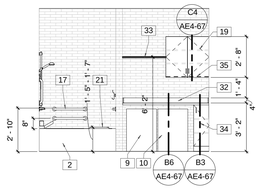
| Keynote Legend | |
|---|---|
| 1 | Coat Hook |
| 2 | Bathtub, Refer to Plumbing Drawings |
| 3 | Shower Rod And Curtain |
| 4 | Recessed Napkin/Tampon Vendor Furnished By Owner, Installed By Contractor |
| 5 | Overhead braced toilet partition. |
| 6 | Urinal, Refer to Plumbing Drawings |
| 7 | Recessed Ada Toilet Compartment Combination Accessory Unit Furnished By Owner, Installed By Contractor |
| 8 | Wall Mounted Soap Dispenser Furnished By Owner, Installed By Contractor |
| 9 | Dryer Provided By Owner |
| 10 | Washing Machine Provided By Owner |
| 11 | Recessed Paper Towel Dispenser Furnished By Owner, Installed By Contractor |
| 12 | Recessed Diaper Changing Station DC-1 |
| 13 | Wall Mount Sink |
| 14 | Hands Free Faucet |
| 15 | Recessed Paper Towel Dispenser, Automatic Hand Dryer, and Waste Receptacle Furnished By Owner, Installed By Contractor |
| 16 | Door Operator Push Button |
| 17 | Grab Bar |
| 18 | Toilet, Refer to Plumbing Drawings |
| 19 | Wood Veneer Faced Upper Cabinets with Lockable Doors and Adjustable Shelves |
| 20 | ADA Shower, Refer to Plumbing Drawings |
| 21 | ADA Compliant Removable In-Tub Seat |
| 22 | Shared Partition Mounted Ada Toilet Compartment Combination Accessory Unit Furnished By Owner, Installed By Contractor |
| 23 | Counter Mounted Hands Free Soap Dispenser Furnished By Owner, Installed By Contractor |
| 24 | Under Counter Mounted Sink |
| 25 | Simulated Stone Countertop with Backsplash, Sidesplash, and Front Skirt as Shown |
| 26 | Wall Mounted Mirror |
| 27 | 1/8" Towel Bar |
| 28 | Solid Surface Countertop with Backsplash, Sidesplash, and Front Skirt as Shown |
| 29 | Wood Veneer Faced Removable Panel with Solid Wood Edge. Provide Concealed Support as Required |
| 30 | Wood Veneer Faced Skirt With Solid Wood Edge |
| 31 | Finish End Panel. Match Profile for Accessibility |
| 32 | Solid Surface Countertop With Backsplash and Sidesplash as Shown |
| 33 | Hanging Rod |
| 34 | Wood Veneer Faced Base Cabinets with Lockable Doors and Adjustable Shelves |
| 35 | Under Cabinet Lighting, Refer To Electrical Drawings |
| 36 | Wood Veneer Faced Removable Panel with Solid Wood Edge. Provide Concealed Support As Required. |



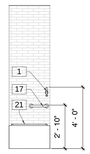

C1 Family Restroom
1/4" = 1'-0"



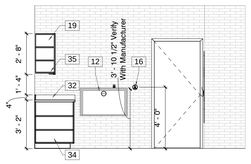

C3 Family Restroom
1/4" = 1'-0"



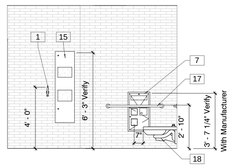
C4 Family Restroom
1/4" = 1'-0"



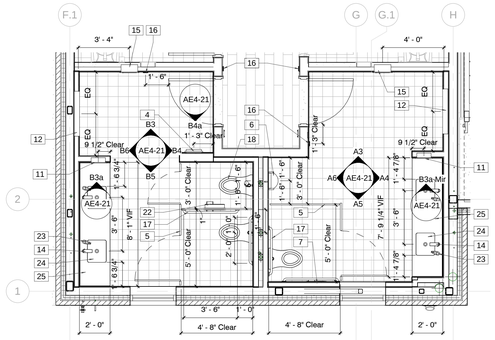
C4a Family Restroom
1/4" = 1'-0"



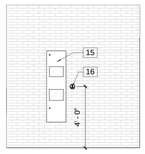
C5 Family Restroom
1/4" = 1'-0"



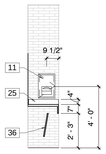
C6 Family Restroom
1/4" = 1'-0"



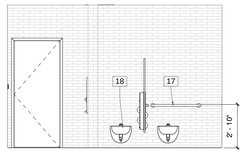

B1 Level 1 and Level 2 South Restrooms
1/4" = 1'-0"



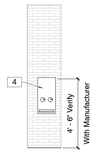
B3 Women
1/4" = 1'-0"



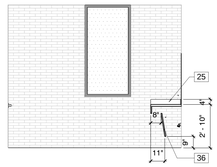
B3a Restrooms
1/4" = 1'-0"



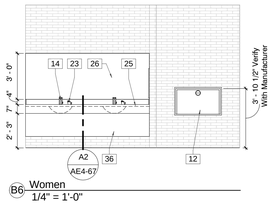
B4 Women
1/4" = 1'-0"



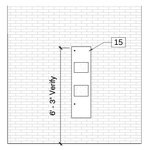
B4a Women
1/4" = 1'-0"



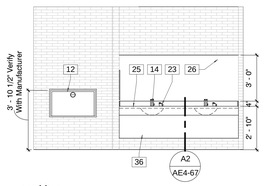
B5 Women
1/4" = 1'-0"



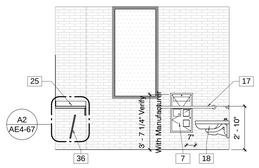
B6 Women
1/4" = 1'-0"



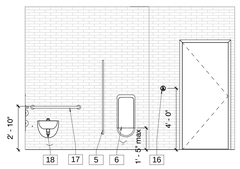
A3 Men
1/4" = 1'-0"



A4 Men
1/4" = 1'-0"



A5 Men
1/4" = 1'-0"



A6 Men
1/4" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07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| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrzewski Designs - 801.582.9747 |

## STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
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## SHEET DATA

Drawn By: Kraig
Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building | Salt Lake City, Utah 84114

DFCM # 14190230

DFCM APPROVAL STAMP:

## ADDENDA

| Revision | Date |
|---|---|

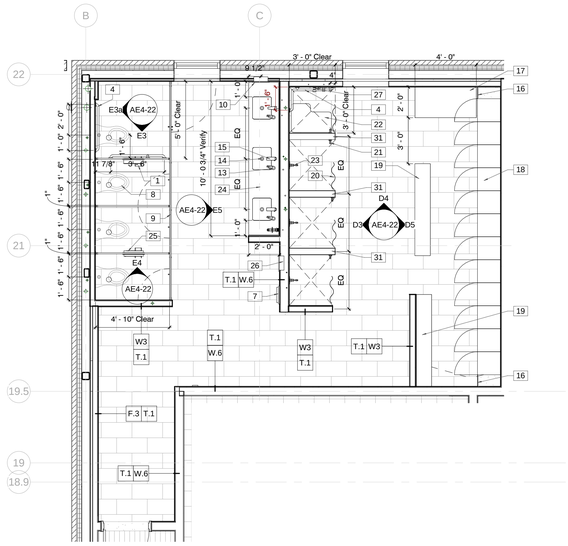
## ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

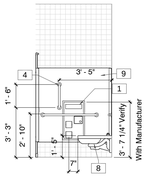
Construction Documents

# Enlarged Toilet Room Drawings

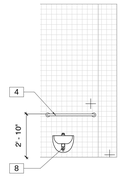
# AE4-21



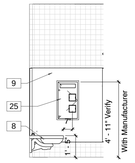

E1 Locker Room Enlarged Floorplan
1/4" = 1'-0"



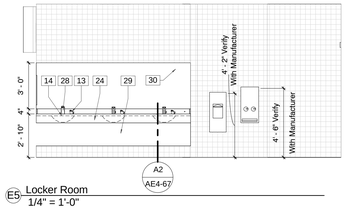

E3 Accessible Compartment
1/4" = 1'-0"



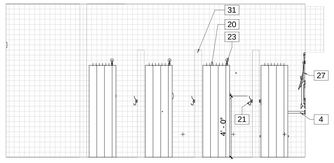

E3a Accessible Compartment
1/4" = 1'-0"



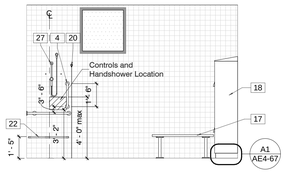

E4 Standard Compartment
1/4" = 1'-0"



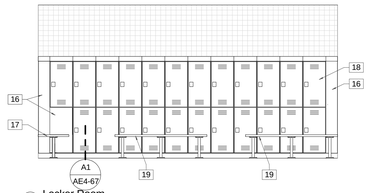

E5 Locker Room
1/4" = 1'-0"



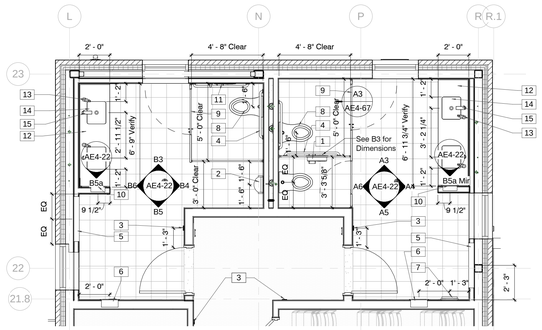

D3 Locker Room
1/4" = 1'-0"



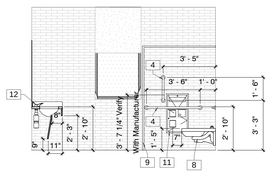

D4 Locker Room
1/4" = 1'-0"



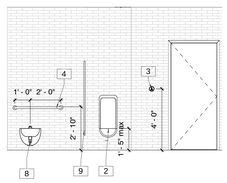

D5 Locker Room
1/4" = 1'-0"



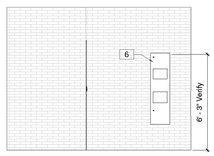

B1 Level 2 North Toilet Room
1/4" = 1'-0"



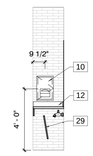

B3 Men
1/4" = 1'-0"



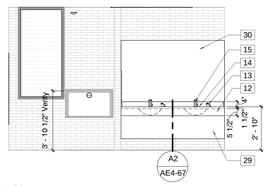

B4 Men
1/4" = 1'-0"



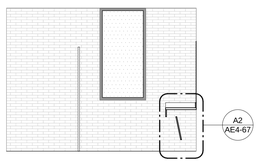

B5 Men
1/4" = 1'-0"



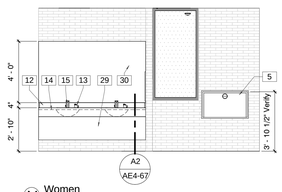

B5a Restrooms
1/4" = 1'-0"



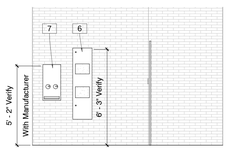

B6 Men
1/4" = 1'-0"



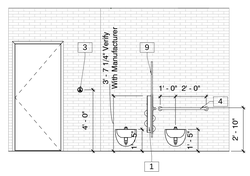

A3 Women
1/4" = 1'-0"




A4 Women
1/4" = 1'-0"




A5 Women
1/4" = 1'-0"




A6 Women
1/4" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Shared Partition Mounted Ada Toilet Compartment Combination Accessory Unit Furnished By Owner, Installed By Contractor |
| 2 | Urinal, Refer to Plumbing Drawings |
| 3 | Door Operator Push Button |
| 4 | Grab Bar |
| 5 | Recessed Diaper Changing Station DC-1 |
| 6 | Recessed Paper Towel Dispenser, Automatic Hand Dryer, and Waste Receptacle Furnished By Owner, Installed By Contractor |
| 7 | Recessed Napkin/Tampon Vendor Furnished By Owner, Installed By Contractor |
| 8 | Toilet, Refer to Plumbing Drawings |
| 9 | Overhead braced toilet partition. |
| 10 | Recessed Paper Towel Dispenser Furnished By Owner, Installed By Contractor |
| 11 | Recessed Ada Toilet Compartment Combination Accessory Unit Furnished By Owner, Installed By Contractor |
| 12 | Simulated Stone Countertop with Backsplash, Sidesplash, and Front Skirt as Shown |
| 13 | Counter Mounted Hands Free Soap Dispenser Furnished By Owner, Installed By Contractor |
| 14 | Under Counter Mounted Sink |
| 15 | Hands Free Faucet |
| 16 | Filler Panel To Match Locker Provided By Owner |
| 17 | ADA Locker Room Bench Provided By Owner |
| 18 | 2 Tier Lockers Provided By Owner |
| 19 | Locker Room Bench Provided By Owner |
| 20 | Shower Rod And Curtain |
| 21 | Coat Hook |
| 22 | ADA L-Shaped Folding Shower Seat. Include Blocking to Support the Following Structural Requirements: Allowable stresses shall not be exceeded for materials used where a vertical or horizontal force of 250 pounds is applied at any point on the seat, fastener mounting device, or supporting structure. |
| 23 | Shower, Refer to Plumbing Drawings |
| 24 | Solid Surface Countertop with Backsplash, Sidesplash, and Front Skirt as Shown |
| 25 | Shared Partition Mounted Toilet Compartment Combination Accessory Unit Furnished By Owner, Installed By Contractor |
| 26 | Recessed Towel/Waste Unit Furnished By Owner, Installed By Contractor |
| 27 | ADA Shower, Refer to Plumbing Drawings |
| 28 | |
| 29 | Wood Veneer Faced Removable Panel with Solid Wood Edge. Provide Concealed Support as Required |
| 30 | Wall Mounted Mirror |
| 31 | Partial Height Wall Base Connector Bolt To Floor. Size And Spacing As Required To Support Wall. |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801 363 1434
Project Number: 2014-07


## CONSULTANTS


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Structural: - TBSE Inc. - 801.298.8795
Mechanical: - WHW Engineering - 801.466.4021
Electrical: - ECE Consulting - 801.521.8007
Landscape: - Landmark Design - 801.474.3300
Food Service: - Jedziewski Designs - 801.582.9747


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## SHEET DATA

Drawn By: Kraig
Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114-1204
DFCM # 14190230
DFCM APPROVAL STAMP:

## ADDENDA

| Revision | Date |
|---|---|

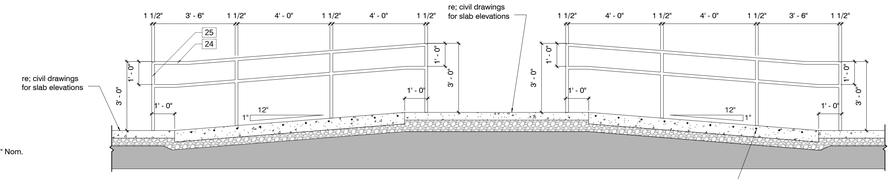
## ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

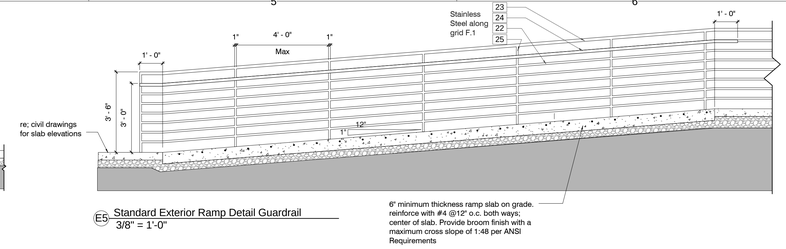
Construction Documents

# Enlarged Toilet Room Drawings

# AE4-22



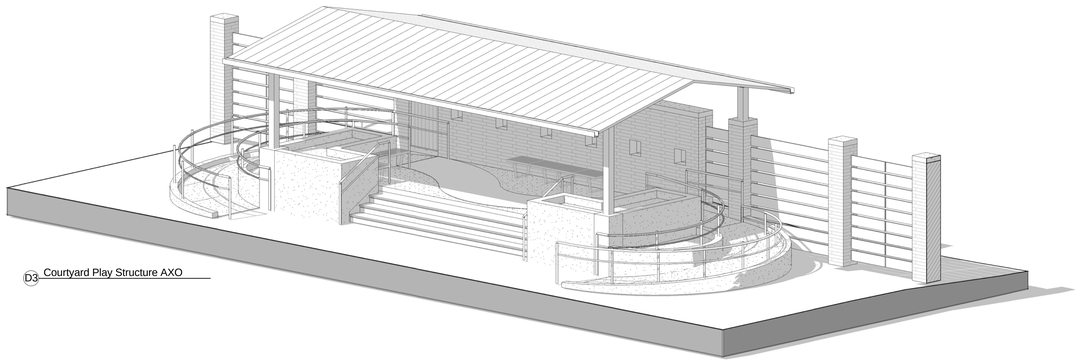

E3 Standard Exterior Ramp Detail
3/8" = 1'-0"



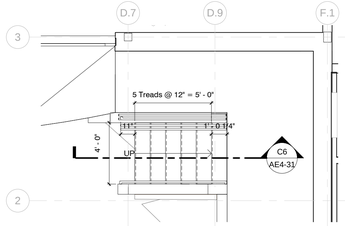

E5 Standard Exterior Ramp Detail Guardrail
3/8" = 1'-0"

## Keynote Legend

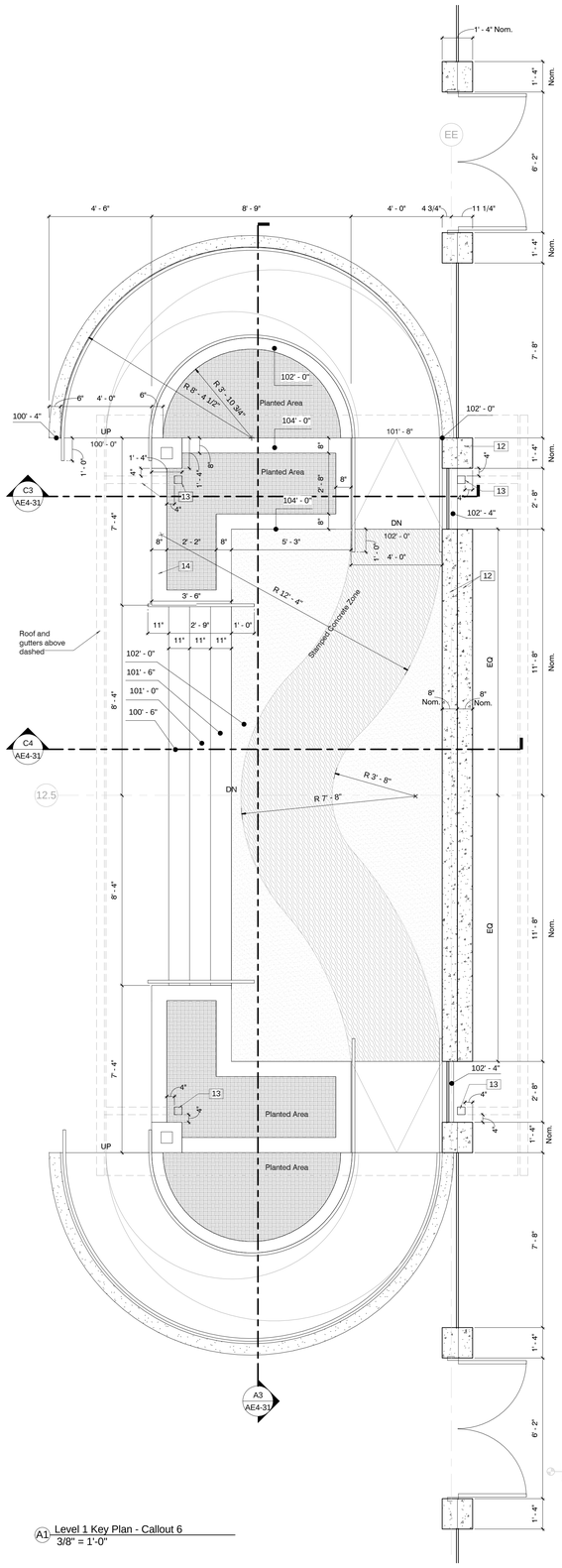
| | |
|---|---|
| 1 | Concrete Stair, See Structural |
| 2 | Abrasive Stair Nosing Cast into Concrete |
| 3 | 1 1/2" Stainless Steel Tube Baluster |
| 4 | 1 1/2" Stainless Steel Tube Railing |
| 5 | 1/2" Dia. Stainless Steel Bar |
| 6 | Steel Beam refer to Structural |
| 7 | High Performance Coating on Galvanized Steel |
| 8 | Metal Roof Deck Refer to Structural |
| 9 | KEE Membrane Over 1/4" Cover Board Over Roof Deck |
| 10 | Adhered Simulated Standing Seam |
| 11 | 18 Gage Prefinished Rain gutter |
| 12 | 8" Structural Hollow Brick To Match Color Of Building |
| 13 | 4" Pre-Finished Sheet Metal Downspout |
| 14 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |
| 15 | 4" Concrete Slab On Grade with Thickened Edge at Perimeter |
| 16 | Architectural Finish Cast In Place Concrete Cap With Sealant @ Junction With Steel Column |
| 17 | Pre Cast Contrete Cap For Masonry Pier |
| 18 | Stainless Steel Handrails With 1-1/2" Dia. Top Rail & 1" Dia. Children's Rai With 1-1/2" Dia. Support Ballusters @ 48" Maximum Spacing. |
| 19 | FRAMED GATE PANELS WITH 2" X 8" IPE WOOD SLATS AND EXIT PANIC HARDWARE |
| 20 | 2" X 8" IPE WOOD SLATS |
| 21 | Concrete Stair on Slab |
| 22 | 1/2" Galvanized Bar |
| 23 | 1 1/2" Galvanized Pipe Guardrail |
| 24 | 1 1/2" Galvanized Pipe Handrail |
| 25 | 1 1/2" Galvanized Tube Baluster |



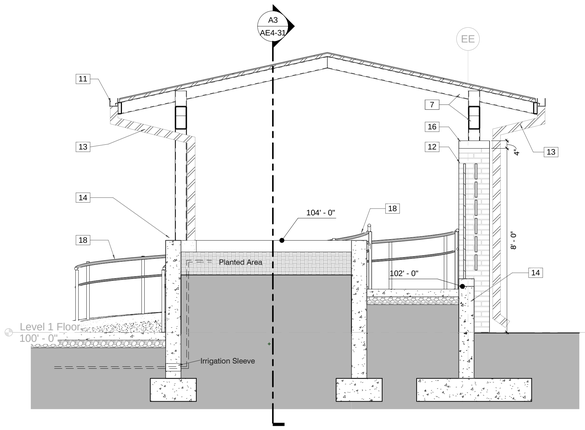
D3 Courtyard Play Structure AXO



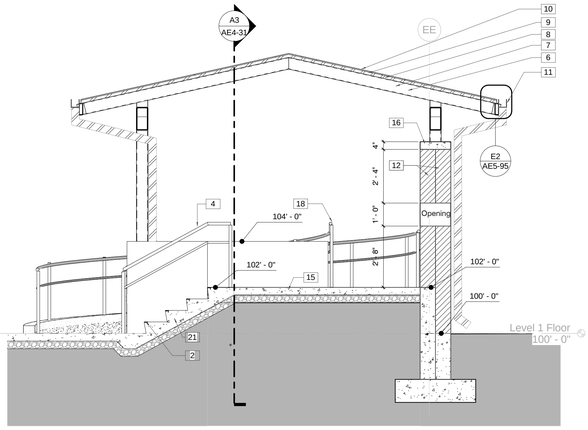

D6 Outdoor Stage Stair Enlarged Plan
1/4" = 1'-0"



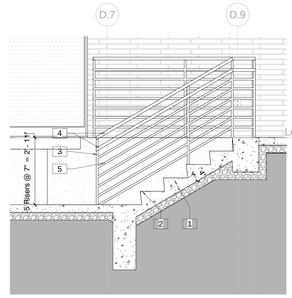

A1 Level 1 Key Plan - Callout 6
3/8" = 1'-0"



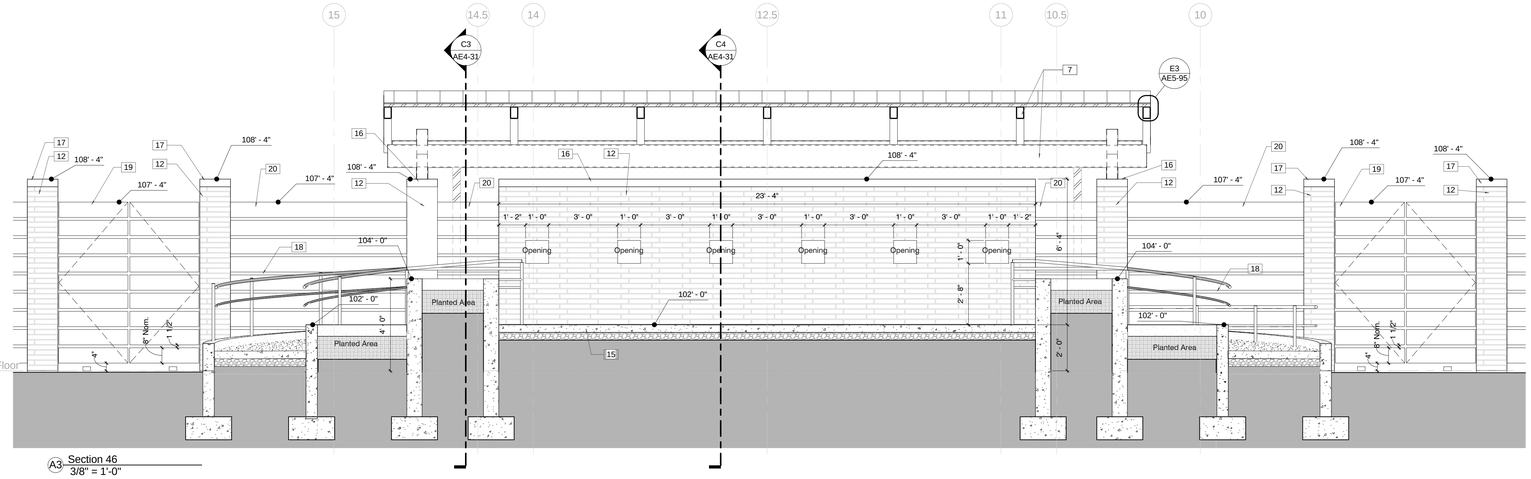

C3 Section 47
3/8" = 1'-0"




C4 Section 89
3/8" = 1'-0"




C6 Outdoor Amphitheater Stair Section
3/8" = 1'-0"




A3 Section 46
3/8" = 1'-0"


JACOBY ARCHITECTS
425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


## CONSULTANTS

| | |
|---|---|
| Architectural: | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrzewski Designs - 801.582.9747 |

## STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT

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## SHEET DATA

Drawn By: Joe
Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
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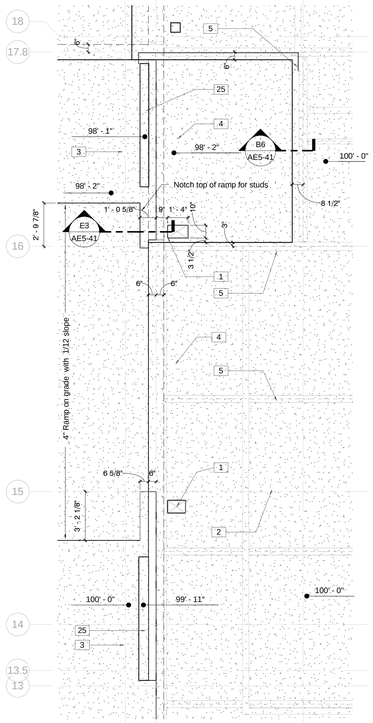
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

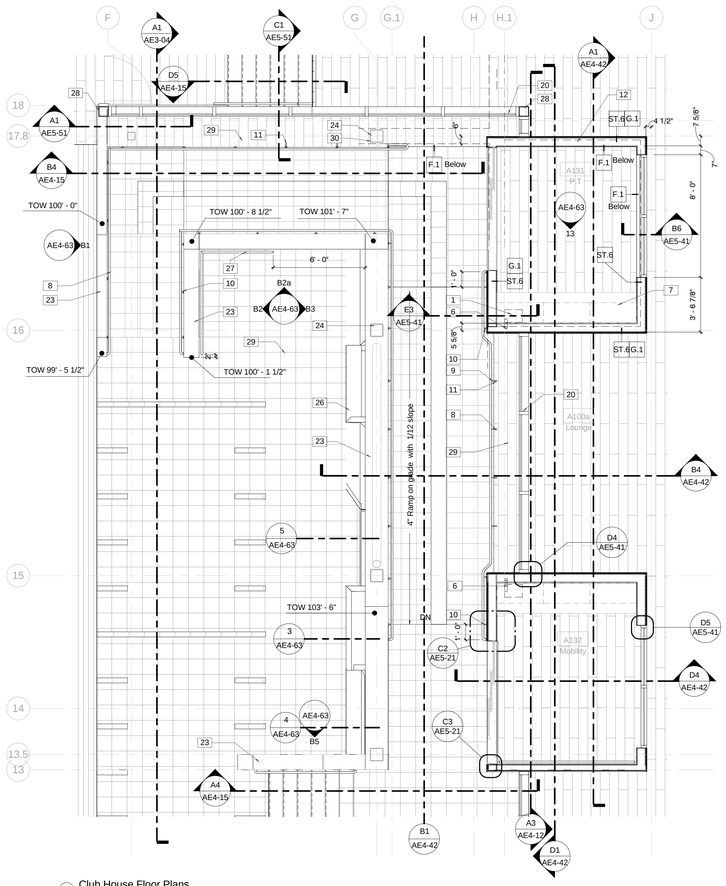
Construction Documents

Enlarged Exterior Drawings

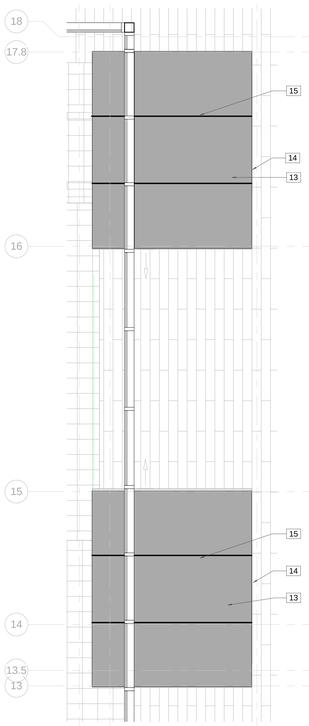
AE4-31



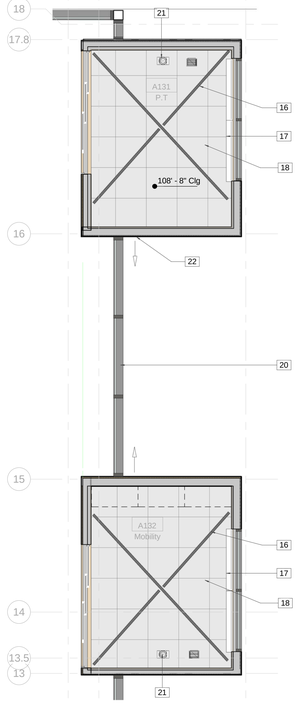

C1 Club House Slab Edge Plan
1/4" = 1'-0"




C2 Club House Floor Plans
1/4" = 1'-0"

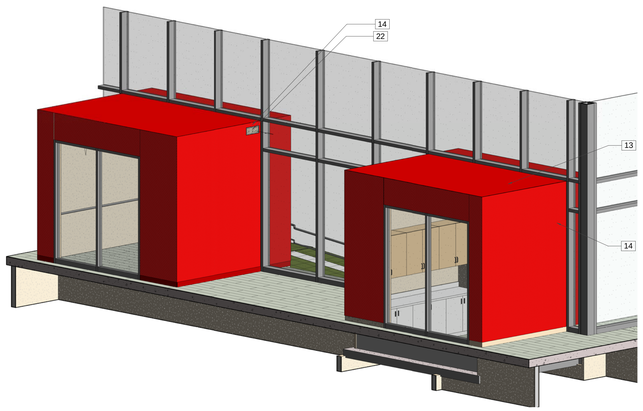


C3 Club House Lid Plan - Callout 3
1/4" = 1'-0"

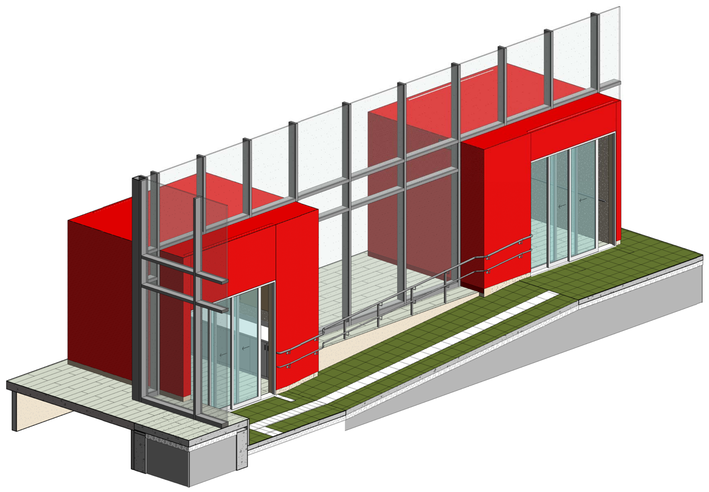



C4 Club House Ceiling - Callout 4
1/4" = 1'-0"

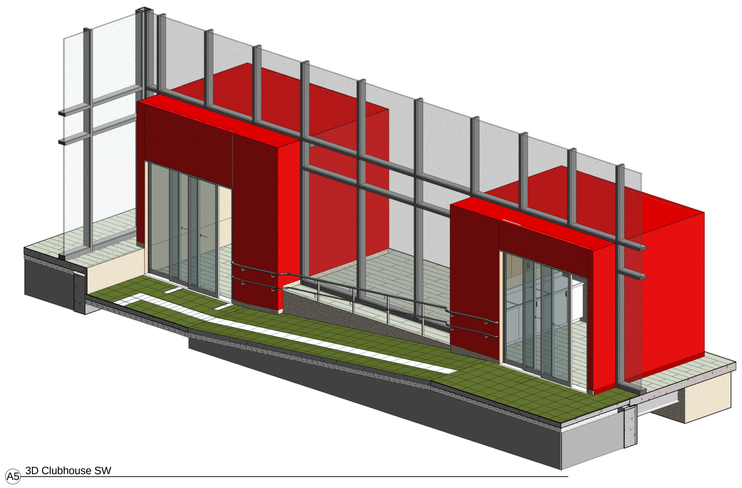
Note: Sensory Room A133 and O.T Room A134 are mirrored from that shown in these plans



A1 3D Clubhouse NE



A3 3D Clubhouse NW



A5 3D Clubhouse SW

## Keynote Legend

| | |
|---|---|
| 1 | Provide block out in slab for ductwork and fire sprinkler supply. Coordinate with mech. and plumbing. |
| 2 | Thicken Suspended Composite Slab to bring surface to Level 100. |
| 3 | 4" Concrete Slab On Grade with Thickened Edge at Perimeter |
| 4 | Suspended Composite Concrete Slab, Refer To Structural Drawings |
| 5 | Steel Beam refer to Structural |
| 6 | |
| 7 | Wood Veneer Faced Architectural Cabinets |
| 8 | Stainless Steel Handrails with 1-1/2" dia. Top Rail & 1" Dia. Children's Rail. |
| 9 | Stainless Steel Railing Brackets. Weld To Support Posts. |
| 10 | Stainless Steel Railing Bracket With 1/2" Thick X 2" Dia. Rosette. Anchor to Stud Wall. Cope Glass Wall Cladding For Installation Of Rosette. |
| 11 | 3/4" x 1-1/4" Stainless Steel Support Post @ 4'-0" o.c. max. Anchor to concrete wall below floor level. |
| 12 | Line of Concrete Slab Below. |
| 13 | Plastic Laminate Over Glass Mat Sheathing. |
| 14 | 1/4" Spandrel Glass Adhered To Substrate. Polish All Exposed Edges |
| 15 | Align Seam In Plastic Laminate With Curtainwall Mullion. |
| 16 | 1-5/8" Unistrut Channel Suspend From Cold Formed Metal Joists With 1/2" All Thread @ 24" O.C. Max. Paint To Match Ceiling. See Structural. |
| 17 | Manually Operated Roller Window Shades With Metal Valence |
| 18 | See Ceiling Plan For Ceiling Type |
| 19 | Wood Veneer Faced Upper Cabinets with Lockable Doors and Adjustable Shelves |
| 20 | Interior Glazed Aluminum Curtain Wall System |
| 21 | Observation Camera - Infrastructure And Equipment Provided By Contractor - See Electrical |
| 22 | Return Air Grille, refer to Mechanical Drawings. |
| 23 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |
| 24 | Architecturally Exposed Structural Steel Framing |
| 25 | Provide Recess in Slab for Sliding Door Track |
| 26 | Climbing Walls Furnished By Owner, Installed By Contractor |
| 27 | 1-1/2" Wood Handrail |
| 28 | Pre-Finished .461" Aluminum Brake Shape to Match Aluminum Curtain Wall System |
| 29 | Resilient Tile Flooring, Refer To Finish Schedule/Plans |
| 30 | Paint Exposed Steel Member, Typical |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801 363 1434
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SHEET DATA

Drawn By: Bob
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114-1204 · 538-3018

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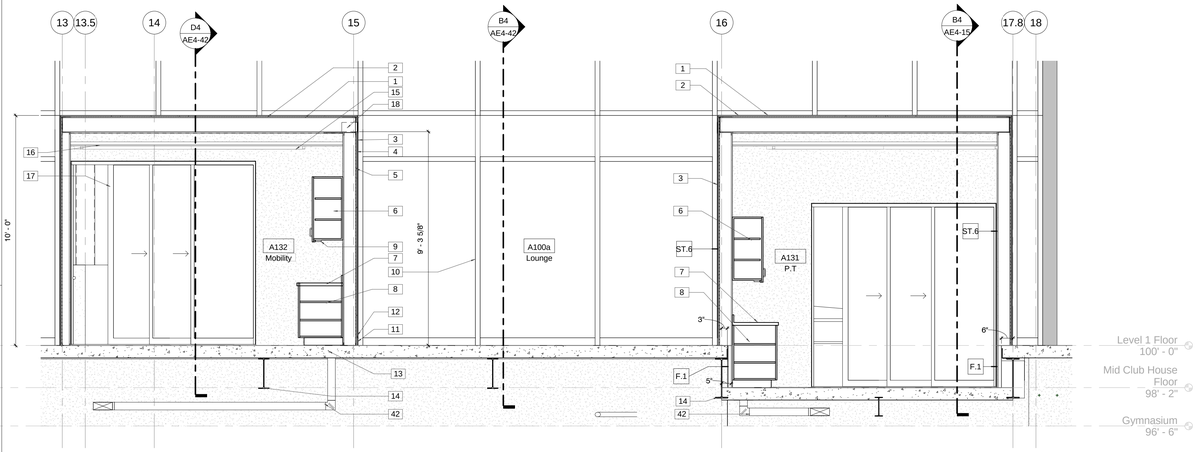
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

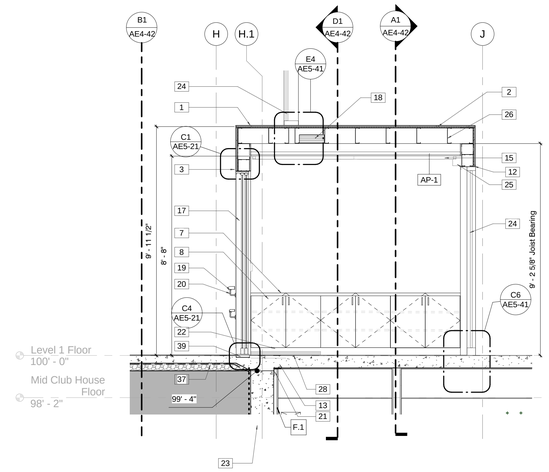
Construction Documents

Enlarged Clubhouse Drawings

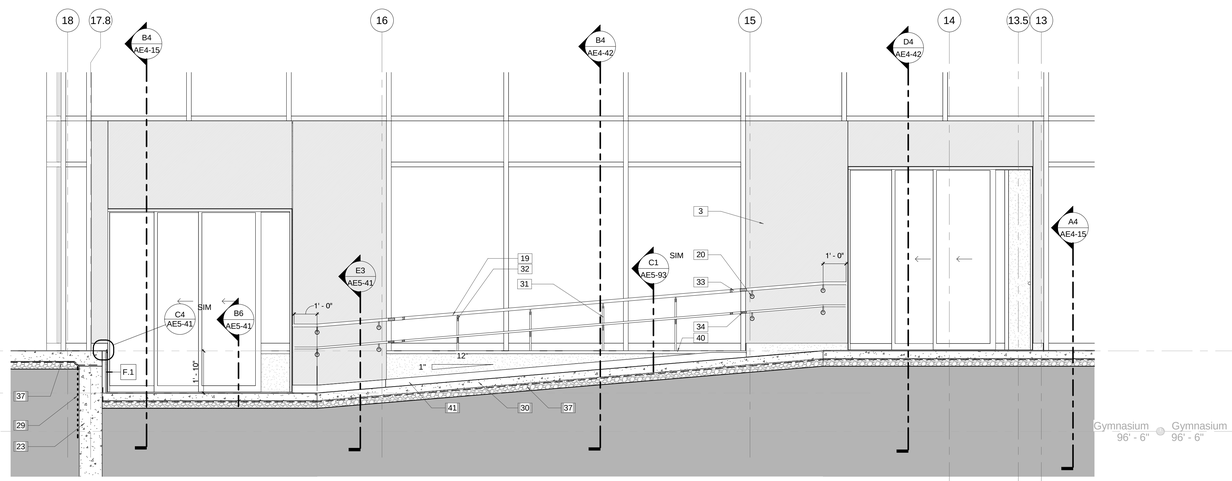
AE4-41



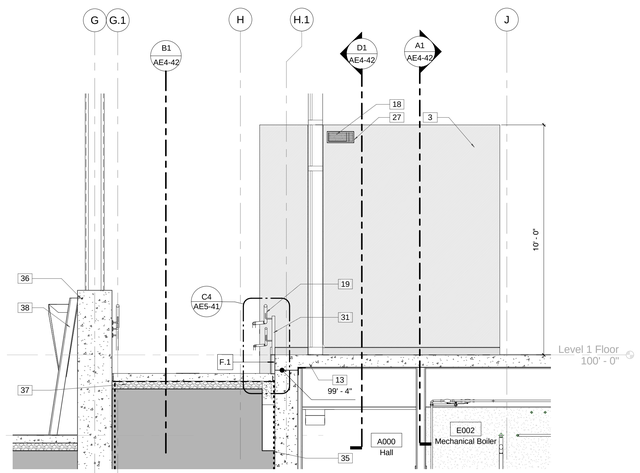

D1 Section 71
3/8" = 1'-0"



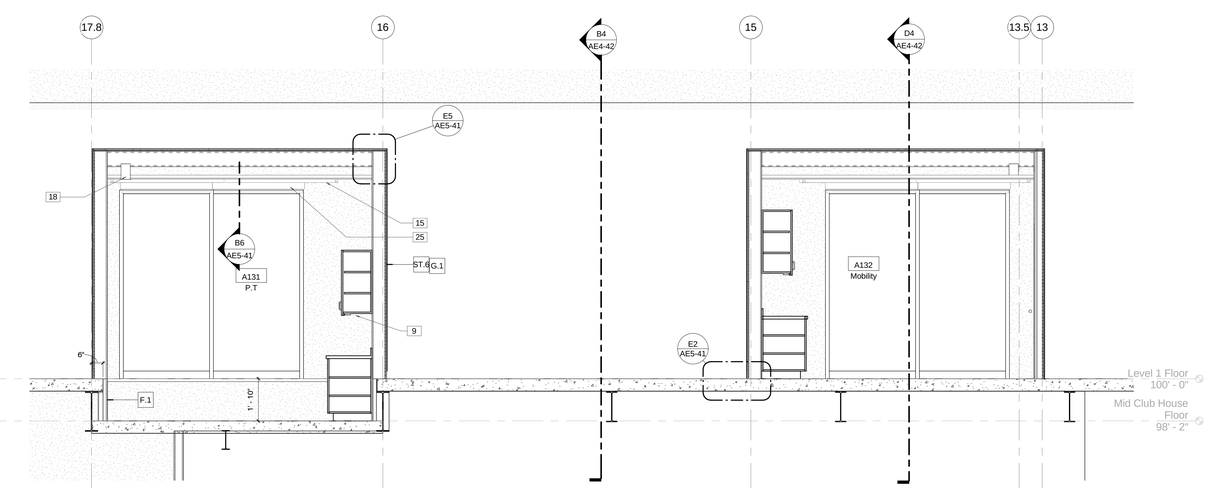

D4 Section 69
3/8" = 1'-0"




B1 Section 35
3/8" = 1'-0"




B4 Section 40
3/8" = 1'-0"




A1 Section 70
3/8" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Plastic Laminate Over Glass Mat Sheathing. |
| 2 | 3/4" Fire Retardant Treated Plywood Sheathing, |
| 3 | 1/4" Spandrel Glass Adhered To Substrate. Polish All Exposed Edges |
| 4 | 1/2" Glass Mat Backer Board |
| 5 | 7/16" Plywood Sheathing |
| 6 | Wood Veneer Faced Upper Cabinets with Lockable Doors and Adjustable Shelves |
| 7 | Solid Surface Countertop With Backsplash and Sidesplash as Shown |
| 8 | Wood Veneer Faced Base Cabinets with Lockable Doors and Adjustable Shelves |
| 9 | Under Cabinet Lighting, Refer To Electrical Drawings |
| 10 | Interior Glazed Aluminum Curtain Walls |
| 11 | Provide 1/4" X 4" Backing for Wall Base below Glass Wall Cladding |
| 12 | Provide 2" X 5/16" X 1/8" Thick Continuous Aluminum Angle Anchored to Wall Studs to support Glass. |
| 13 | Suspended Composite Concrete Slab. Refer To Structural Drawings |
| 14 | Steel Beam refer to Structural |
| 15 | 1-5/8" Unistrut Channel Suspend From Cold Formed Metal Joists With 1/2" All Thread @ 24" O.C. Max. Paint To Match Ceiling. See Structural. |
| 16 | Suspended ACT Ceiling-See Ceiling Plan For Tile Size |
| 17 | Sliding Mall Front Door, Refer To Door Schedule. |
| 18 | Return Air Grille, refer to Mechanical Drawings. |
| 19 | Stainless Steel Handrails with 1-1/2" dia. Top Rail & 1" Dia. Children's Rail. |
| 20 | Stainless Steel Railing Bracket With 1/2" Thick X 2" Dia. Rosette. Anchor to Stud Wall. Cope Glass Wall Cladding For Installation Of Rosette. |
| 21 | Structural Steel Framing, Refer To Structural Drawings |
| 22 | Supply Air Grille In Kick Space, Refer To Mechanical Drawings |
| 23 | Reinforced Concrete Wall refer to Structural |
| 24 | Interior Glazed Aluminum Curtain Wall System |
| 25 | Manually Operated Roller Window Shades With Metal Valence |
| 26 | 8" Cold Formed Joists, refer to Structural Drawings. |
| 27 | Cut Opening In Glass for Mechanical Grille. Coordinate Exact Location In The Field. Opening size to be 1/8" larger on each side of the frame. Grind and polish exposed edges. |
| 28 | Simulated Wood Flooring, Refer To Finish Schedule. |
| 29 | Cold Fluid Applied Waterproofing Membrane |
| 30 | 4" Thick Cast In Place Concrete Ramp |
| 31 | 3/4" x 1-1/4" Stainless Steel Support Post @ 4'-0" o.c. max. Anchor to concrete wall below floor level. |
| 32 | Stainless Steel Railing Brackets. Weld To Support Posts. |
| 33 | 1 1/2" Stainless Steel Tube Railing |
| 34 | Provide Lateral Transition If Railings as Indicated |
| 35 | Apply Waterproofing To Foundation Wall. Wrap Down And Lap Over Footing A Minimum Of 12". Cover With Drainage Board |
| 36 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |
| 37 | Vapor Retarder |
| 38 | Climbing Walls Furnished By Owner, Installed By Contractor |
| 39 | Provide Recess in Slab for Sliding Door Track |
| 40 | SS Nosing Strip (BOD Schluter SS 60 EB 39) |
| 41 | Resilient Base As Scheduled |
| 42 | Ductwork, Refer To Mechanical |


JACOBY ARCHITECTS

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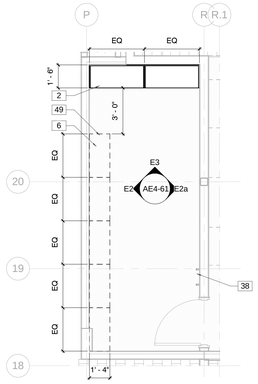
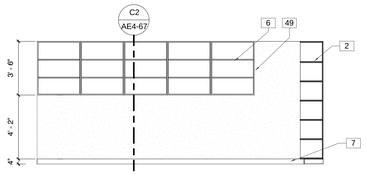
Construction Documents

Enlarged Clubhouse Drawings

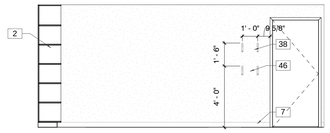
AE4-42



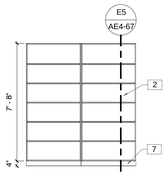
E1 Mobility Storage
1/4" = 1'-0"



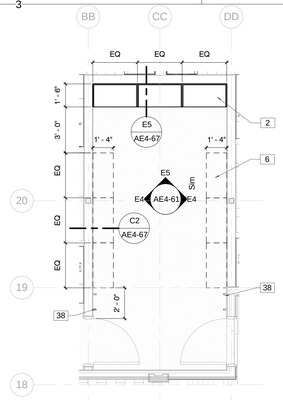
E2 Mobility Storage
1/4" = 1'-0"



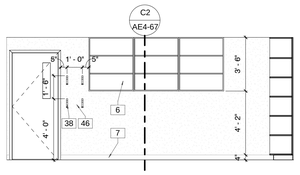
E2a Mobility Storage
1/4" = 1'-0"



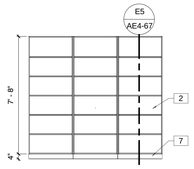
E3 Mobility Storage
1/4" = 1'-0"



E3a Mobility Storage
1/4" = 1'-0"



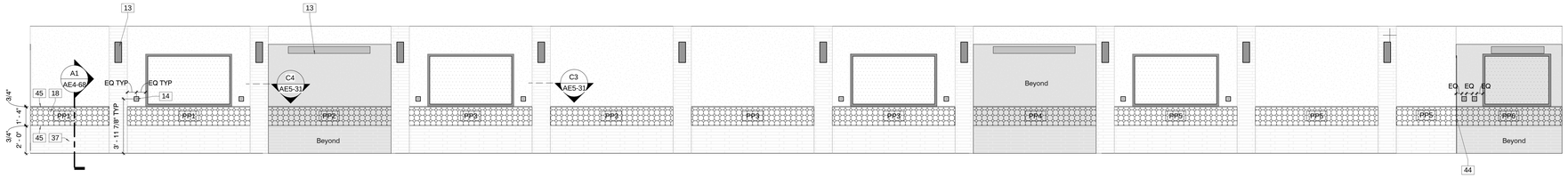
E4 Mobility Storage
1/4" = 1'-0"



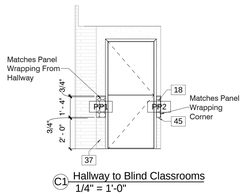
E5 Mobility Storage
1/4" = 1'-0"

| Profile Panel Schedule | |
|---|---|
| Type Mark | Description |
| PP1 | Panel Type 1 |
| PP2 | Panel Type 2 |
| PP3 | Panel Type 3 |
| PP4 | Panel Type 4 |
| PP5 | Panel Type 5 |
| PP6 | Panel Type 6 |

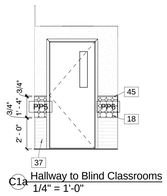
Paint Gypsum Board, Refer To Finish Plan



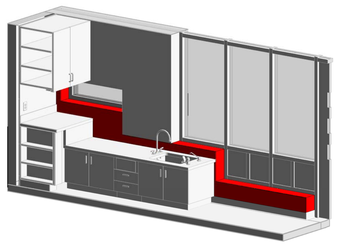
D2 Hallway to Blind Classrooms
1/4" = 1'-0"



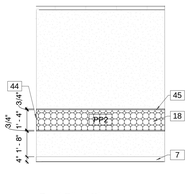
C1 Hallway to Blind Classrooms
1/4" = 1'-0"



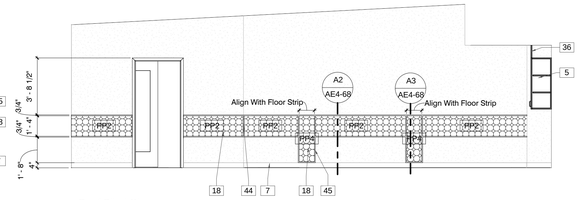
C1a Hallway to Blind Classrooms
1/4" = 1'-0"



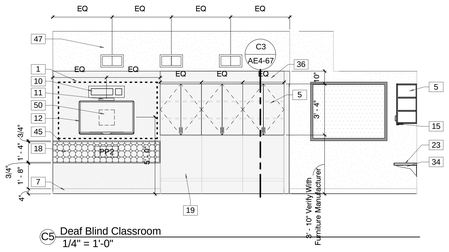
C2 Solid Surface Enclosure - Blind Classrooms



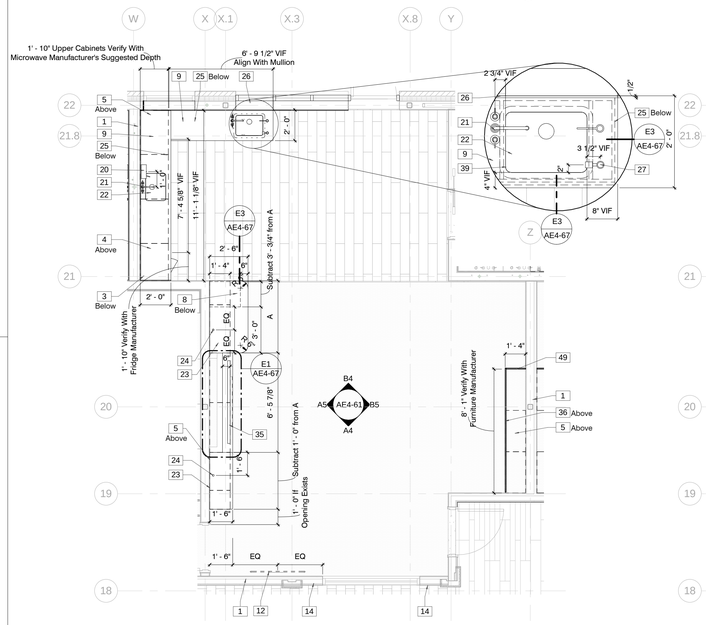
C3 Deaf Blind Classroom
1/4" = 1'-0"



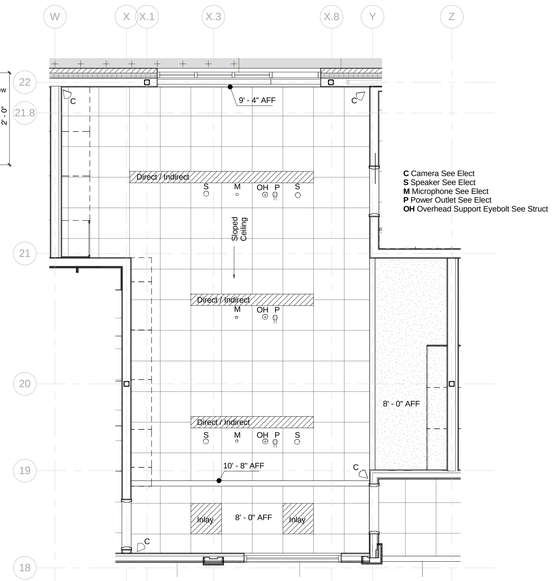
C4 Deaf Blind Classroom
1/4" = 1'-0"



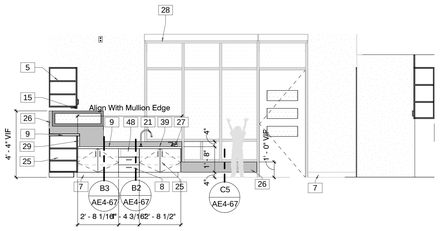
C5 Deaf Blind Classroom
1/4" = 1'-0"



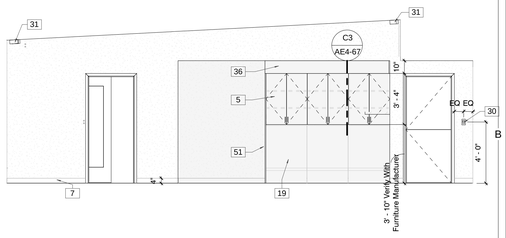
A1 Blind Classroom
1/4" = 1'-0"



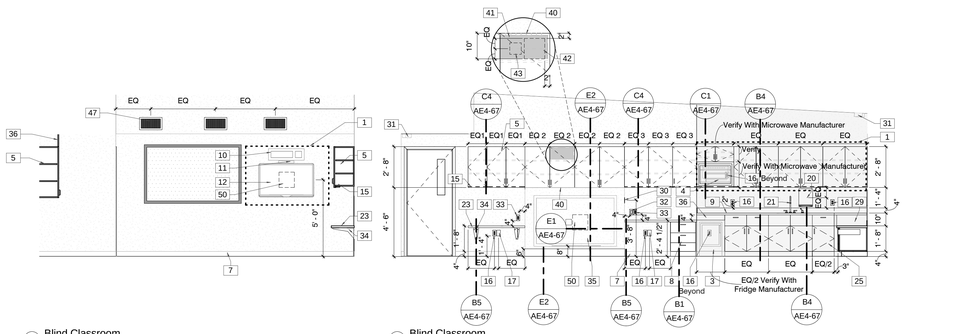
A3 Blind Classroom - Ceiling
1/4" = 1'-0"



B4 Blind Classroom
1/4" = 1'-0"



B5 Blind Classroom
1/4" = 1'-0"



A4 Blind Classroom
1/4" = 1'-0"

A5 Blind Classroom
1/4" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Resilient Backer Located On The Side Of The Wall Where RSIC or RC Are Indicated, TYP |
| 2 | Wood Veneer Faced Full Height Cabinets with Adjustable Open Shelves |
| 3 | under Counter Refrigerator Provided By Owner |
| 4 | Microwave and Trim Kit Provided By Owner |
| 5 | Wood Veneer Faced Upper Cabinets with Lockable Doors and Adjustable Shelves |
| 6 | Wood Veneer Faced Upper Cabinets with Adjustable Open Shelves |
| 7 | Resilient Base As Scheduled |
| 8 | Wood Veneer Faced Lockable Base Drawers |
| 9 | Solid Surface Countertop With Backsplash and Sidesplash as Shown |
| 10 | Audio/Visual P.A. System - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 11 | Television Mounted Camera - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 12 | Flat Panel Screen - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 13 | Light Fixture refer to Electrical Drawings |
| 14 | Headphone Jack - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 15 | Under Cabinet Lighting, Refer To Electrical Drawings |
| 16 | Power, See Electrical |
| 17 | Data, See Electrical |
| 18 | 16" High Modular Profile Panel |
| 19 | Cubbies Furnished By Owner, Installed By Contractor |
| 20 | Wall Mounted Paper Towel Dispenser Furnished By Owner, Installed By Contractor |
| 21 | 2 Handle Faucet on North Wings, Hands Free Faucet on South Wings |
| 22 | Under Counter Mounted Sink |
| 23 | Wood Veneer Countertops |
| 24 | Coordinate Requirement for Grommet(s) with Owner Provided Equipment |
| 25 | Wood Veneer Faced Base Cabinets with Lockable Doors and Adjustable Shelves |
| 26 | Solid Surface Enclosure with Substrate. Weld Corners for Monolithic Appearance |
| 27 | Bubbler |
| 28 | Manually Operated Roller Window Shades With Metal Valence |
| 29 | Continuation Of Countertop |
| 30 | Digital Room Controller, See Electrical |
| 31 | Observation Camera - Infrastructure And Equipment Provided By Contractor - See Electrical |
| 32 | Emergency Power Outlet, See Electrical |
| 33 | Power and USB, See Electrical |
| 34 | Cantilever Counter Top Supports @ 32" OC Max. Paint Color Selected By Architect |
| 35 | Smart Board - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 36 | Apron to Match Millwork |
| 37 | 1/2" Adhered Brick Veneer |
| 38 | Coat Hook |
| 39 | Provide Continuous Drip Edge at Sink Cut-Out in Countertop as Required by Manufacturer, TYP |
| 40 | Holes for Ventilation |
| 41 | Locate AV Equipment Here - ID and Note Junction Box for Power/Data, See Electrical |
| 42 | Box in Back of Millwork, See Electrical |
| 43 | Quad Outlet in Back of Millwork, See Electrical |
| 44 | Miter Profile Panel at Corner. Ensure Texture Alignment |
| 45 | 1X Painted Wood Trim |
| 46 | Wood Backing Behind Gyp Board |
| 47 | Mechanical Equipment. Refer to Mechanical Drawings |
| 48 | Paper Towel Dispenser Furnished By Owner Installed By Contractor, Recessed Into Casework, Coordinate Dimensions and Provide Support As Needed |
| 49 | Finish End Panel Where Exposed, TYP |
| 50 | TV/Monitor Backbox Coordinated With Mounting Equipment, See Electrical |
| 51 | Full Height End Panel |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


## CONSULTANTS

| | |
|---|---|
| Architectural: | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrzewski Designs - 801.582.9747 |

## STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT

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## SHEET DATA

Drawn By: Kraig
Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

## ADDENDA

| Revision | Date |
|---|---|

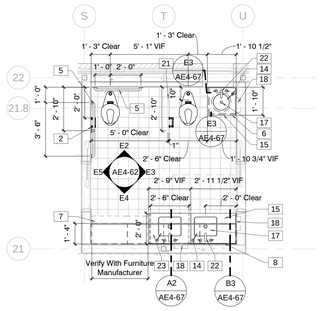
## ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

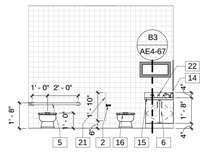
Construction Documents

# Interior Elevations

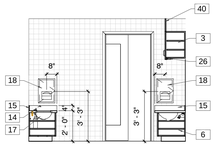
# AE4-61



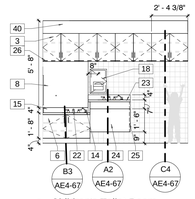

E1 Children's Toilet Room
1/4" = 1'-0"



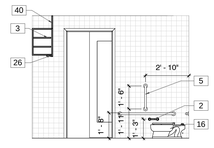

E2 Children's Toilet Room
1/4" = 1'-0"



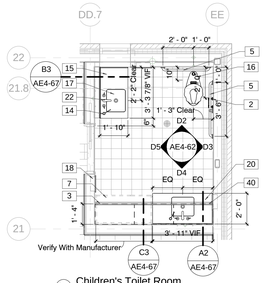

E3 Children's Toilet Room
1/4" = 1'-0"



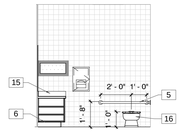

E4 Children's Toilet Room
1/4" = 1'-0"



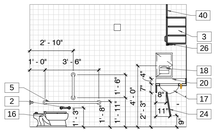

E5 Children's Toilet Room
1/4" = 1'-0"



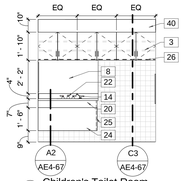

D1 Children's Toilet Room
1/4" = 1'-0"




D2 Children's Toilet Room
1/4" = 1'-0"

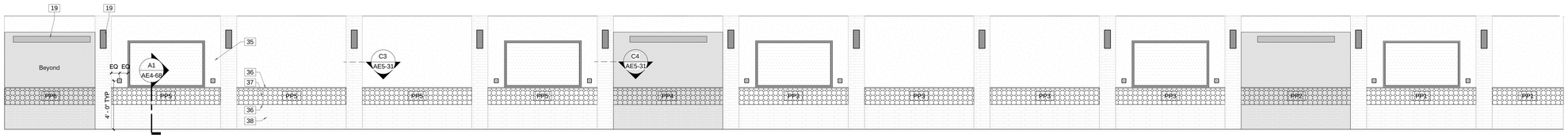



D3 Children's Toilet Room
1/4" = 1'-0"

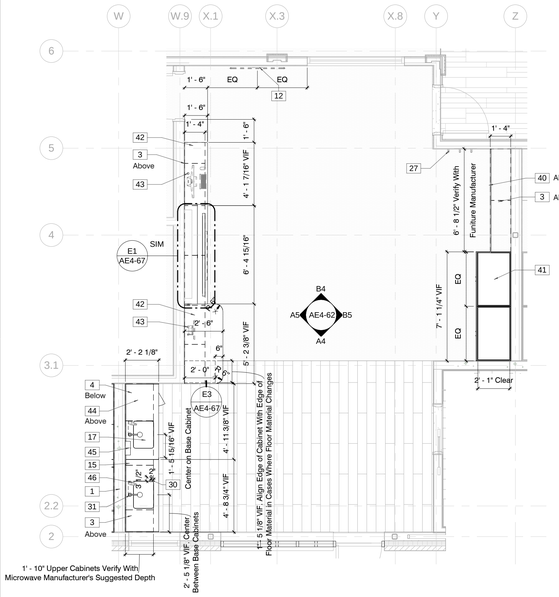



D4 Children's Toilet Room
1/4" = 1'-0"

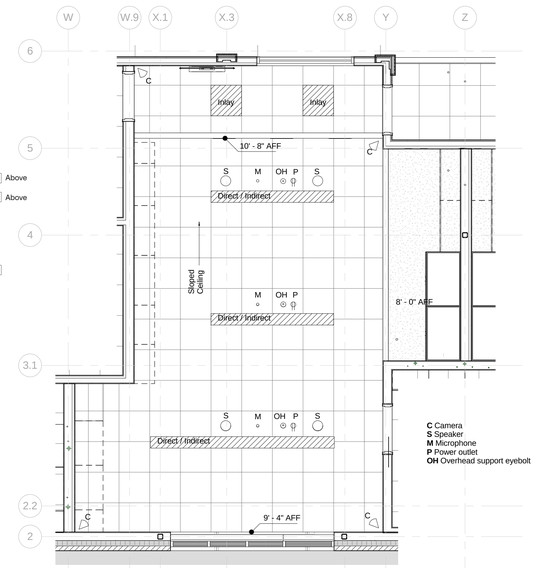
D5 Children's Toilet Room
1/4" = 1'-0"



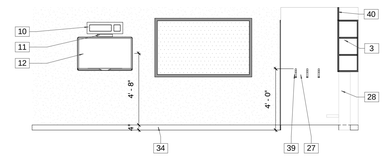

C1 Hallway to Deaf Classrooms
1/4" = 1'-0"



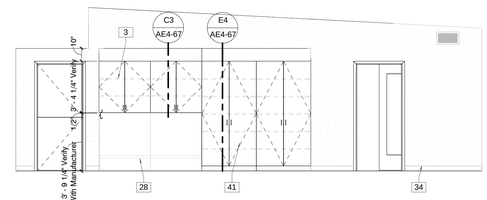

A1 Deaf Classroom
1/4" = 1'-0"



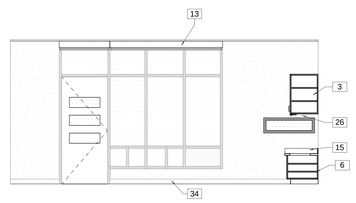

A2 Deaf Classroom - Ceiling
1/4" = 1'-0"



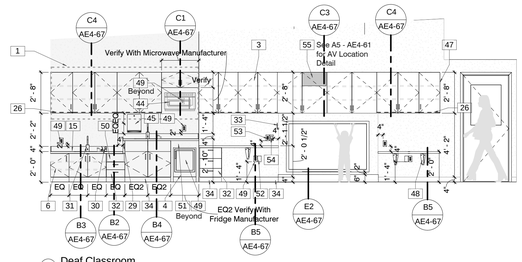

B4 Deaf Classroom
1/4" = 1'-0"




B5 Deaf Classroom
1/4" = 1'-0"




A4 Deaf Classroom
1/4" = 1'-0"




A5 Deaf Classroom
1/4" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Resilient Backer Located On The Side Of The Wall Where RSIC or RC Are Indicated, TYP |
| 2 | Toilet Tissue Rod Furnished By Owner, Installed By Contractor |
| 3 | Wood Veneer Faced Upper Cabinets with Lockable Doors and Adjustable Shelves |
| 4 | under Counter Refrigerator Provided By Owner |
| 5 | Grab Bar |
| 6 | Wood Veneer Faced Base Cabinets with Lockable Doors and Adjustable Shelves |
| 7 | Floor Mounted Changing Table Unit with Integrated Stair Provided By Owner |
| 8 | Wall Mounted Mirror |
| 9 | Recessed Fire Extinguisher Cabinet |
| 10 | Audio/Visual P.A. System - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 11 | Television Mounted Camera - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 12 | Flat Panel Screen - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 13 | Manually Operated Roller Window Shades With Metal Valence |
| 14 | Counter Mounted Soap Dispenser Furnished By Owner, Installed By Contractor. Manual Pump on North Wing, Hands Free on South Wing |
| 15 | Solid Surface Countertop With Backsplash and Sidesplash as Shown |
| 16 | Childrren's Toilet |
| 17 | Under Counter Mounted Sink |
| 18 | Recessed Paper Towel Dispenser Furnished By Owner, Installed By Contractor |
| 19 | Light Fixture refer to Electrical Drawings |
| 20 | Simulated Stone Countertop with Backsplash, Sidesplash, and Front Skirt as Shown |
| 21 | Floor Mounted Toilet Partition |
| 22 | 2 Handle Faucet on North Wings, Hands Free Faucet on South Wings |
| 23 | Solid Surface Countertop with Backsplash, Sidesplash, and Front Skirt as Shown |
| 24 | Wood Veneer Faced Removable Panel with Solid Wood Edge. Provide Concealed Support as Required |
| 25 | Finish End Panel. Match Profile for Accessibility |
| 26 | Under Cabinet Lighting, Refer To Electrical Drawings |
| 27 | Coat Hook |
| 28 | Cubbies Furnished By Owner, Installed By Contractor |
| 29 | Continuation Of Countertop |
| 30 | Bubbler |
| 31 | Hands Free Faucet With Temperature Control |
| 32 | Wood Veneer Faced Lockable Base Drawers |
| 33 | Digital Room Controller, See Electrical |
| 34 | Resilient Base As Scheduled |
| 35 | Headphone Jack - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 36 | 1X Painted Wood Trim |
| 37 | 16" High Modular Profile Panel |
| 38 | 1/2" Adhered Brick Veneer |
| 39 | Wood Backing Behind Gyp Board |
| 40 | Apron to Match Millwork |
| 41 | Wood Veneer Faced Full Height Cabinet with Lockable Doors and Adjustable Shelves |
| 42 | Wood Veneer Countertops |
| 43 | Coordinate Requirement for Grommet(s) with Owner Provided Equipment |
| 44 | Microwave and Trim Kit Provided By Owner |
| 45 | Wall Mounted Paper Towel Dispenser Furnished By Owner, Installed By Contractor |
| 46 | Counter Mounted Hands Free Soap Dispenser Furnished By Owner, Installed By Contractor |
| 47 | Finish End Panel Where Exposed, TYP |
| 48 | Cantilever Counter Top Supports @ 32" OC Max. Paint Color Selected By Architect |
| 49 | Power, See Electrical |
| 50 | Paper Towel Dispenser Furnished By Owner Installed By Contractor, Recessed Into Casework, Coordinate Dimensions and Provide Support As Needed |
| 51 | Trim Coordinated With Appliance |
| 52 | Data, See Electrical |
| 53 | Power and USB, See Electrical |
| 54 | Emergency Power Outlet, See Electrical |
| 55 | Locate AV Equipment Here - ID and Note Junction Box for Power/Data, See Electrical |

## Profile Panel Schedule

| Type Mark | Description |
|---|---|
| PP1 | Panel Type 1 |
| PP2 | Panel Type 2 |
| PP3 | Panel Type 3 |
| PP4 | Panel Type 4 |
| PP5 | Panel Type 5 |
| PP6 | Panel Type 6 |

Paint Gypsum Board, Refer To Finish Plan


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


## CONSULTANTS

| | |
|---|---|
| Architectural: | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrzewski Designs - 801.582.9747 |

## STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT

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## SHEET DATA

Drawn By: Kraig

Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230

DFCM APPROVAL STAMP:

## ADDENDA

| Revision | Date |
|---|---|

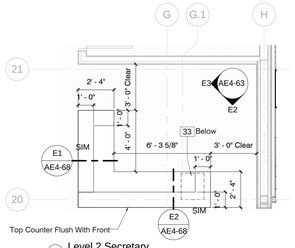
## ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

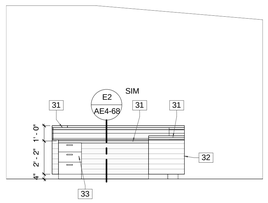
Construction Documents

# Interior Elevations

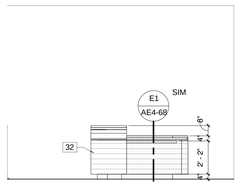
# AE4-62



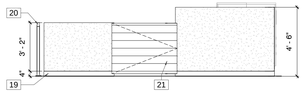

E1 Level 2 Secretary
1/4" = 1'-0"



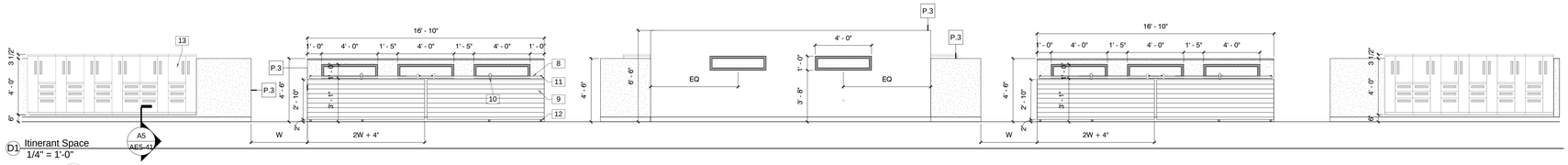
E2 Level 2 Reception
1/4" = 1'-0"



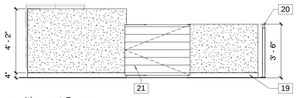
E3 Level 2 Reception
1/4" = 1'-0"



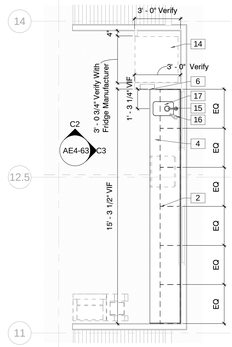
E5 Itinerant Space
1/4" = 1'-0"



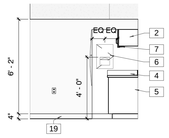

D1 Itinerant Space
1/4" = 1'-0"



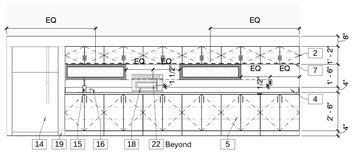
D6 Itinerant Space
1/4" = 1'-0"



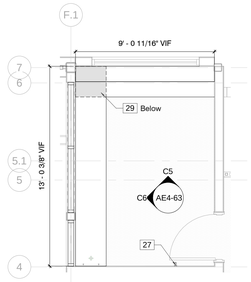

C1 Break Room / Work Room
1/4" = 1'-0"



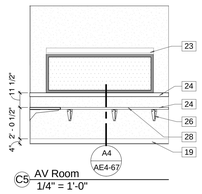
C2 Break Room
1/4" = 1'-0"



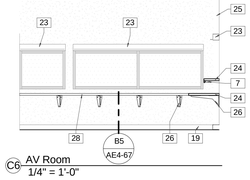

C3 Break Room / Work Room
1/4" = 1'-0"



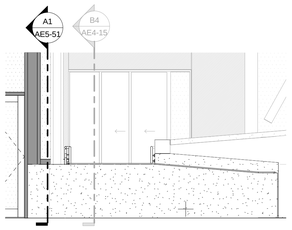

C4 AV Room
1/4" = 1'-0"



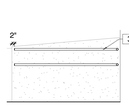
C5 AV Room
1/4" = 1'-0"



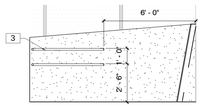
C6 AV Room
1/4" = 1'-0"



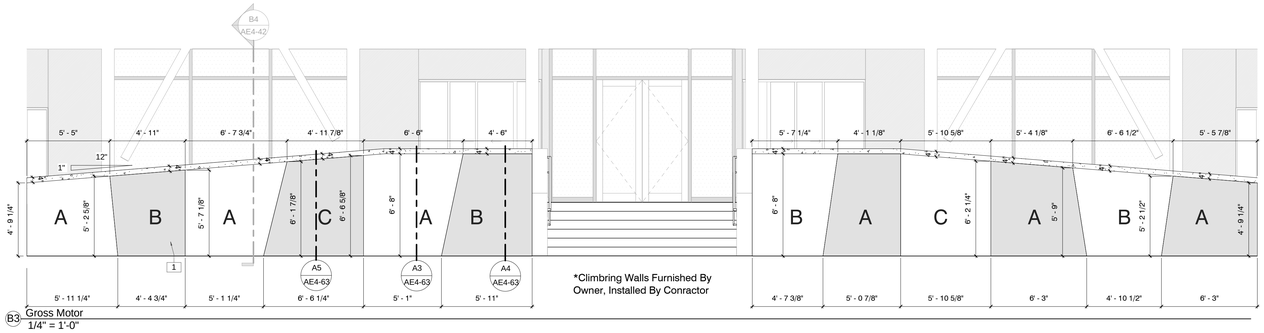
B1 Gross Motor
1/4" = 1'-0"



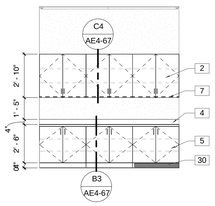
B2 Gross Motor
1/4" = 1'-0"



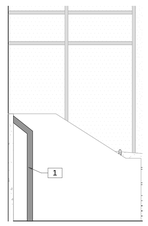
B2a Gross Motor
1/4" = 1'-0"



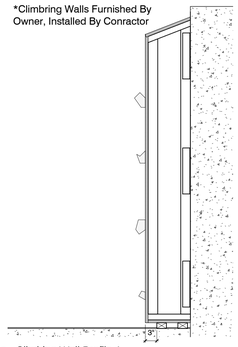

B3 Gross Motor
1/4" = 1'-0"



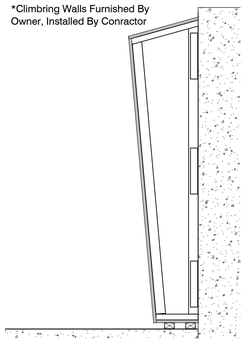
A1 Clubhouse Casework
1/4" = 1'-0"



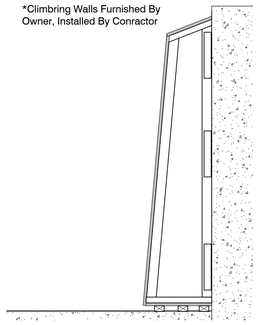
A2 Gross Motor
1/4" = 1'-0"




A3 Climbing Wall Profile A
3/4" = 1'-0"




A4 Climbing Wall Profile B
3/4" = 1'-0"




A5 Climbing Wall Profile C
3/4" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Modular Climbing Wall Panel Anchored To Concrete Wall Substrate Furnished By Owner, Installed By Contractor |
| 2 | Wood Veneer Faced Upper Cabinets with Lockable Doors and Adjustable Shelves |
| 3 | 1-1/2" Wood Handrail |
| 4 | Solid Surface Countertop With Backsplash and Sidesplash as Shown |
| 5 | Wood Veneer Faced Base Cabinets with Lockable Doors and Adjustable Shelves |
| 6 | |
| 7 | Under Cabinet Lighting, Refer To Electrical Drawings |
| 8 | 2" X 1/4" Stainless Steel Bar Track |
| 9 | Custom Cantilevered Wood Sliding Door |
| 10 | Stainless Steel Wheels and Brackets |
| 11 | Wheel Stop |
| 12 | Floor Mounted "T" Guide |
| 13 | Storage Locker Provided By Owner |
| 14 | Refrigerator Provided By Owner |
| 15 | Hands Free Faucet With Temperature Control |
| 16 | Counter Mounted Hands Free Soap Dispenser Furnished By Owner, Installed By Contractor |
| 17 | Under Counter Mounted Sink |
| 18 | Microwave and Trim Kit Provided By Owner |
| 19 | Resilient Base As Scheduled |
| 20 | Decorative Metal Railing with Stainless Steel Support Frame And Wood Grille Infill Panels |
| 21 | Door Refer To Schedule |
| 22 | Power, See Electrical |
| 23 | Manually Operated Roller Window Shades With Metal Valence |
| 24 | Wood Veneer Countertops |
| 25 | Paint Exposed Steel Member, Typical |
| 26 | Cantilever Counter Top Supports @ 32" OC Max. Paint Color Selected By Architect |
| 27 | Coat Hook |
| 28 | Coordinate Requirement for Grommet(s) with Owner Provided Equipment |
| 29 | Locate AV Rack Here |
| 30 | Supply Air Grille In Kick Space, Refer To Mechanical Drawings |
| 31 | Simulated Stone Counter Top |
| 32 | Wall Sconce As Specified On Lighting Plan |
| 33 | Wood Veneer Faced Lockable Base Drawers |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


## CONSULTANTS

| | |
|---|---|
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| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrzewski Designs - 801.582.9747 |

## STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT

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## SHEET DATA

Drawn By: Kraig
Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

## ADDENDA

| Revision | Date |
|---|---|

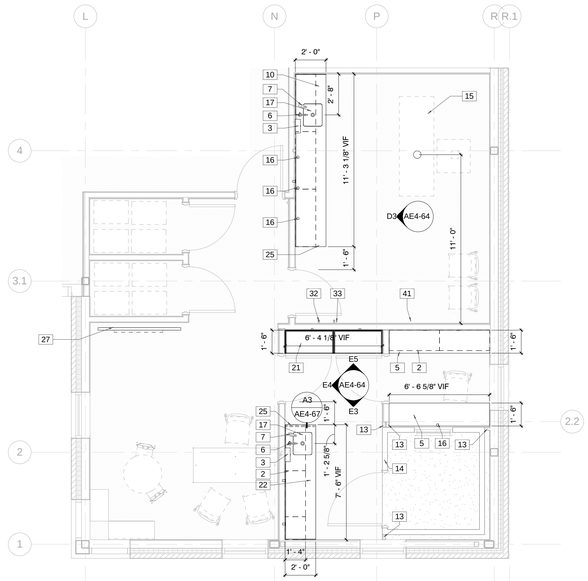
## ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

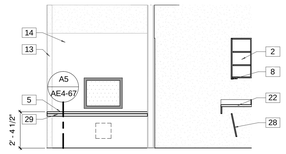
Construction Documents

Interior Elevations

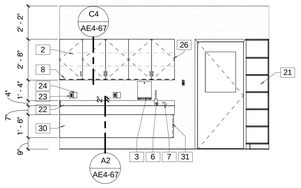
AE4-63



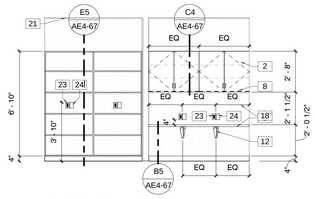
D1 Audiology and Visual Clinics
1/4" = 1'-0"



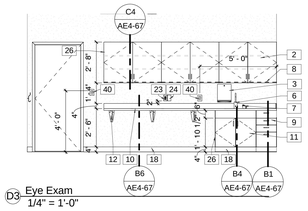
E3 Audiology Observation
1/4" = 1'-0"



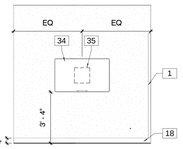
E4 Audiology Observation
1/4" = 1'-0"



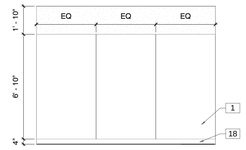
E5 Audiology Observation
1/4" = 1'-0"



D3 Eye Exam
1/4" = 1'-0"



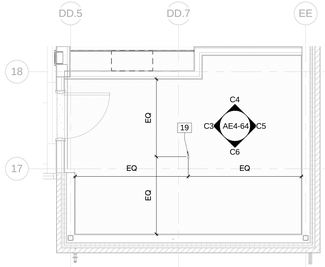
D4 Level 1 Small Conference
1/4" = 1'-0"



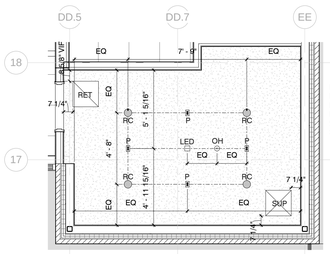
D5 Level 1 Small Conference
1/4" = 1'-0"

| Keynote Legend | |
|---|---|
| 1 | Porcelain Marker Board. Keep Area Clear of All Devices. |
| 2 | Wood Veneer Faced Upper Cabinets with Lockable Doors and Adjustable Shelves |
| 3 | Wall Mounted Paper Towel Dispenser Furnished By Owner, Installed By Contractor |
| 4 | Manually Operated Roller Window Shades With Metal Valence |
| 5 | Wood Veneer Countertops |
| 6 | Hands Free Faucet With Temperature Control |
| 7 | Counter Mounted Hands Free Soap Dispenser Furnished By Owner, Installed By Contractor |
| 8 | Under Cabinet Lighting, Refer To Electrical Drawings |
| 9 | Wood Veneer Faced Lockable Base Drawers |
| 10 | Solid Surface Countertop With Backsplash and Sidesplash as Shown |
| 11 | Wood Veneer Faced Base Cabinets with Lockable Doors and Adjustable Shelves |
| 12 | Cantilever Counter Top Supports @ 32" OC Max. Paint Color Selected By Architect |
| 13 | Closure Panel by Audiometric Booth Mfr. Furnished By Owner, Installed By Contractor |
| 14 | Single Wall Audiometric Booth Furnished By Owner Installed By Contractor |
| 15 | Relocated Eye Exam Equipment Furnished By Owner, Installed By Contractor. |
| 16 | Coordinate Requirement for Grommet(s) with Owner Provided Equipment |
| 17 | Under Counter Mounted Sink |
| 18 | Resilient Base As Scheduled |
| 19 | Power With Black Outlets and Cover Plate |
| 20 | Electrical Operated Roller Window Shades With Metal Valence |
| 21 | Adjustable Shelving |
| 22 | Simulated Stone Countertop with Backsplash, Sidesplash, and Front Skirt as Shown |
| 23 | Power and USB, See Electrical |
| 24 | Data, See Electrical |
| 25 | Wrap Finish Edge Where Exposed, TYP |
| 26 | Finish End Panel Where Exposed, TYP |
| 27 | Smart Board - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 28 | Wood Veneer Faced Removable Panel with Solid Wood Edge. Provide Concealed Support As Required. |
| 29 | L 2" X 2" X 1/8" |
| 30 | Wood Veneer Faced Removable Panel with Solid Wood Edge. Provide Concealed Support as Required |
| 31 | Finish End Panel. Match Profile for Accessibility |
| 32 | Coat Hook |
| 33 | Wood Backing Behind Gyp Board |
| 34 | Flat Panel Screen - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 35 | TV/Monitor Backbox Coordinated With Mounting Equipment, See Electrical |
| 36 | Exhaust at Back of Casework, See Mechanical |
| 37 | Wood Veneer Faced Base Cabinets with Lockable Doors. No Adjustable Shelving Required. |
| 38 | Locate AV Equipment Here - ID and Note Junction Box for Power/Data, See Electrical |
| 39 | Shelf Box to Conceal Wires and Support Camera |
| 40 | Light Switch, See Electrical |
| 41 | Owner Provided Eye Exam Chart. Contractor to Provide Power and Communication Per Owner Requirements |

Paint Gypsum Board, Refer To Finish Plan

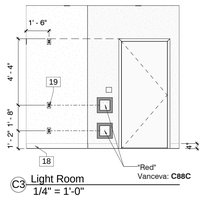


C1 Light Room
1/4" = 1'-0"

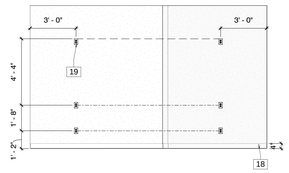


LED Color Changing LED Fixture, See Elec
P Power, See Elec
RC Recessed Can, See Elec
RET Return, See Mech
SUP Supply, See Mech
OH Overhead Support Eyebolt See Struct

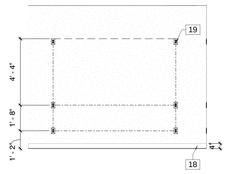
C2 Light Room Ceiling
1/4" = 1'-0"



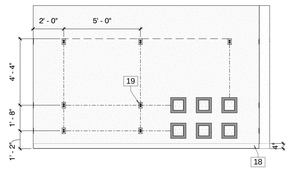
C3 Light Room
1/4" = 1'-0"



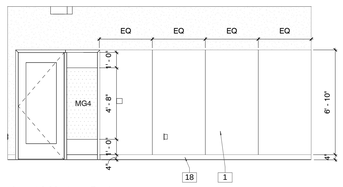
C4 Light Room
1/4" = 1'-0"



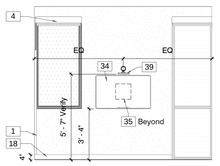
C5 Light Room
1/4" = 1'-0"



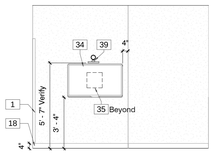
C6 Light Room
1/4" = 1'-0"



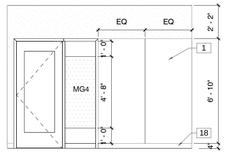
B1 Level 1 Medium Conference
1/4" = 1'-0"



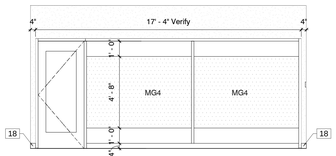
B2 Level 1 Medium Conference
1/4" = 1'-0"



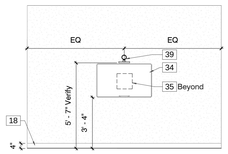
2 Level 1 Small Conference
1/4" = 1'-0"



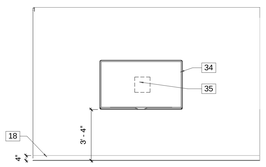
B4a Level 1 Small Conference
1/4" = 1'-0"



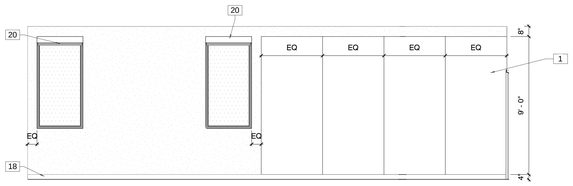
3 Level 2 Medium Conference
1/4" = 1'-0"



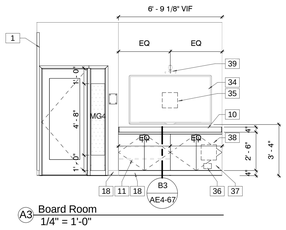
4 Level 2 Medium Conference
1/4" = 1'-0"



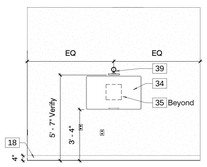
A1 Board Room
1/4" = 1'-0"



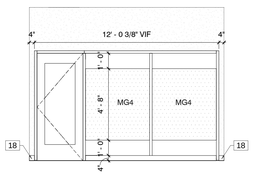
A2 Board Room
1/4" = 1'-0"



A3 Board Room
1/4" = 1'-0"



A5 Level 2 Small Conference
1/4" = 1'-0"



A6 Level 2 Small Conference
1/4" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


## CONSULTANTS

| | |
|---|---|
| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrziewski Designs - 801.582.9747 |

## STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT

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## SHEET DATA

Drawn By: Kraig
Checked By: Checker

## PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

## ADDENDA

| Revision | Date |
|---|---|

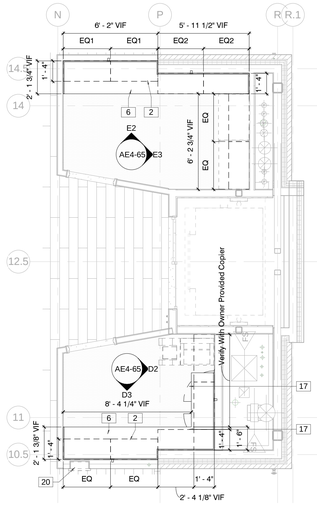
## ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

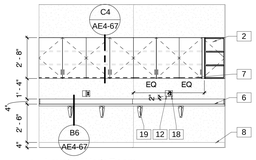
Construction Documents

# Interior Elevations

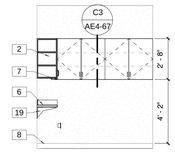
AE4-64



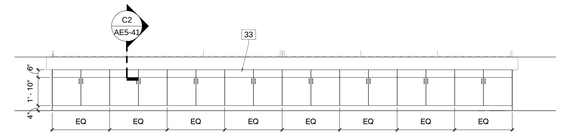

D1 Level 1 Work Room
1/4" = 1'-0"



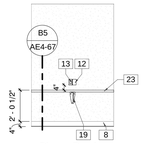

E2 Level 1 Work Room
1/4" = 1'-0"



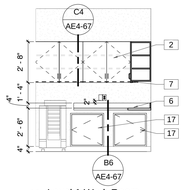

E3 Level 1 Work Room
1/4" = 1'-0"



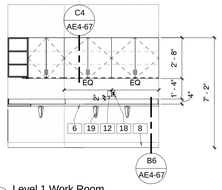

E4 Under Stage
1/4" = 1'-0"



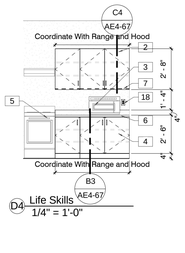

E5 Phone Booth
1/4" = 1'-0"



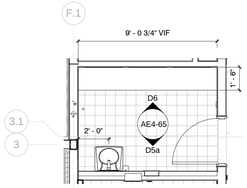

D2 Level 1 Work Room
1/4" = 1'-0"



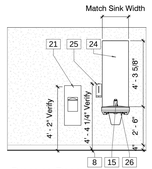

D3 Level 1 Work Room
1/4" = 1'-0"



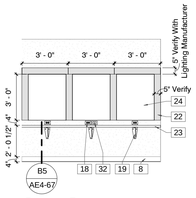

D4 Life Skills
1/4" = 1'-0"



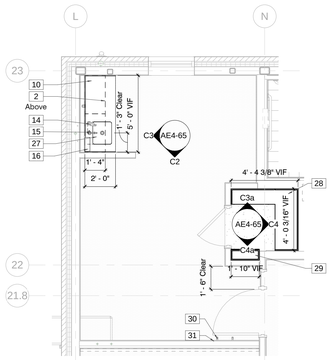

D5 Dressing Rooms Enlarged Plan
1/4" = 1'-0"



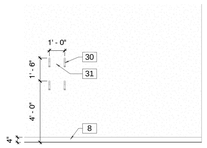

D5a Dressing Rooms
1/4" = 1'-0"



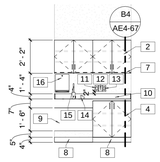

D6 Dressing Rooms
1/4" = 1'-0"



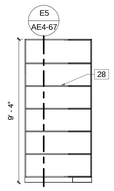

C1 Nurse Office Enlarged Plan
1/4" = 1'-0"



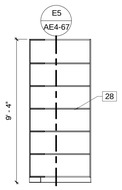

C2 Nurse Office
1/4" = 1'-0"



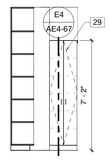

C3 Nurse Office
1/4" = 1'-0"



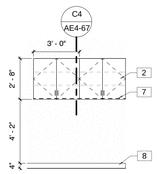

C3a Nurse Storage
1/4" = 1'-0"



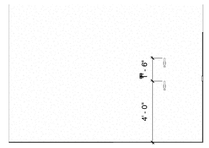

C4 Nurse Storage
1/4" = 1'-0"



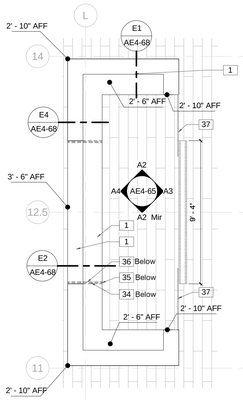

C4a Nurse Storage
1/4" = 1'-0"



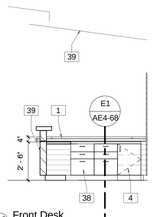

C5 Level 0 Storage Work Space
1/4" = 1'-0"



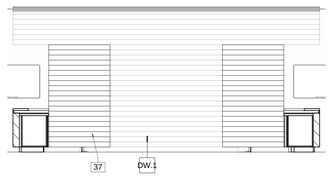
C6 All Offices
1/4" = 1'-0"



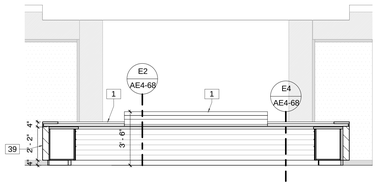

A1 Front Desk Enlarged Plan
1/4" = 1'-0"




A2 Front Desk
1/4" = 1'-0"




A3 Front Desk
1/4" = 1'-0"




A4 Front Desk
1/4" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Simulated Stone Counter Top |
| 2 | Wood Veneer Faced Upper Cabinets with Lockable Doors and Adjustable Shelves |
| 3 | Microwave and Trim Kit Provided By Owner |
| 4 | Wood Veneer Faced Base Cabinets with Lockable Doors and Adjustable Shelves |
| 5 | Oven Provided By Owner |
| 6 | Plastic Laminate Countertop With Backsplash And Sidesplash |
| 7 | Under Cabinet Lighting, Refer To Electrical Drawings |
| 8 | Resilient Base As Scheduled |
| 9 | Wood Veneer Faced Removable Panel with Solid Wood Edge. Provide Concealed Support As Required. |
| 10 | Solid Surface Countertop with Backsplash, Sidesplash, and Front Skirt as Shown |
| 11 | Emergency Power Outlet, See Electrical |
| 12 | Data, See Electrical |
| 13 | Power and USB, See Electrical |
| 14 | Counter Mounted Hands Free Soap Dispenser Furnished By Owner, Installed By Contractor |
| 15 | Hands Free Faucet With Temperature Control |
| 16 | Wall Mounted Paper Towel Dispenser Furnished By Owner, Installed By Contractor |
| 17 | 24"X24" Mud-In Type, Painted Access Door |
| 18 | Power, See Electrical |
| 19 | Cantilever Counter Top Supports @ 32" OC Max. Paint Color Selected By Architect |
| 20 | Recessed AED Cabinet |
| 21 | Recessed Towel/Waste Unit Furnished By Owner, Installed By Contractor |
| 22 | Light Fixture refer to Electrical Drawings |
| 23 | Wood Veneer Countertops |
| 24 | Wall Mounted Mirror |
| 25 | Wall Mounted Soap Dispenser Furnished By Owner, Installed By Contractor |
| 26 | Wall Mount Sink |
| 27 | Under Counter Mounted Sink |
| 28 | Adjustable Shelving |
| 29 | Wood Veneer Faced Full Height Cabinet with Lockable Doors and Adjustable Shelves |
| 30 | Coat Hook |
| 31 | Wood Backing Behind Gyp Board |
| 32 | Light Switch for Vanity Light Fixtures, See Electrical |
| 33 | Wood Veneer Faced Base Cabinets with Lockable Doors. Door and Front Panel Support Only |
| 34 | Double Layer of 3/4" Plywood |
| 35 | Solid Wood Cap |
| 36 | Wood Veneer |
| 37 | Barn Door, Refer to Door Schedule |
| 38 | Wood Veneer Faced Lockable Base Drawers |
| 39 | 1X4 Tongue And Groove Board Paneling |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

| | |
|---|---|
| Architectural: | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedziewski Designs - 801.582.9747 |

### STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT

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### SHEET DATA

Drawn By: Kraig
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

| Revision | Date |
|---|---|

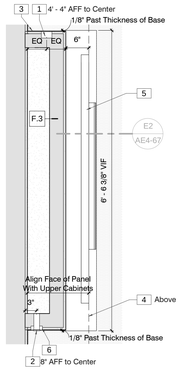
### ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

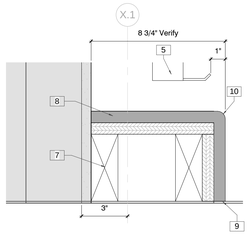
Construction Documents

# Interior Elevations

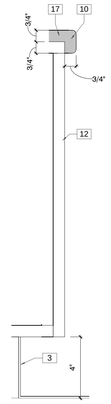
# AE4-65



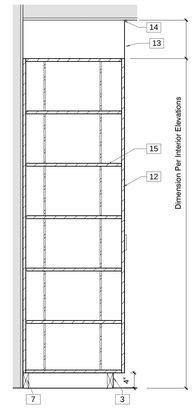

E1 Smart Board Casework - Enlarged
3/4" = 1'-0"



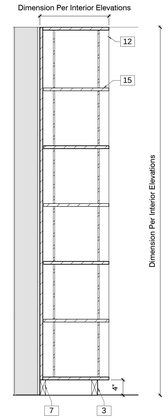

E2 Solid Surface Enclosure Detail
3" = 1'-0"




E3 Countertop Edge Condition
3" = 1'-0"

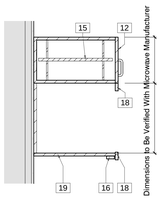



E4 Full Height Cabinet Detail
3/4" = 1'-0"




E5 Full Height Shelves Detail
3/4" = 1'-0"

| Keynote Legend | |
|---|---|
| 1 | Digital Room Controller, See Electrical |
| 2 | Plastic Grommet to Match Conduit Size |
| 3 | Resilient Base As Scheduled |
| 4 | Wood Veneer Faced Upper Cabinets with Lockable Doors and Adjustable Shelves |
| 5 | Smart Board - Infrastructure Provided By Contractor - Equipment Provided By Owner. See Electrical |
| 6 | Single Gang Box at Floor Level, See Electrical |
| 7 | Wood Sleeper as Required |
| 8 | Solid Surface Enclosure with Substrate. Weld Corners for Monolithic Appearance |
| 9 | Scribe to Floor |
| 10 | Where Noted As Solid Surface In Interior Elevation, Weld and Round Corner For Monolithic Appearance. Where Noted As Wood Veneer, Use Hardwood Edge Trim Flush With Veneer Surface. |
| 11 | Wood Blocking As Required |
| 12 | Wood Veneer |
| 13 | Apron to Match Millwork Where Shown in Interior Elevations |
| 14 | Scribe to Ceiling |
| 15 | Adjustable Shelving |
| 16 | Under Cabinet Lighting, Refer To Electrical Drawings |
| 17 | Countertop, Backsplash and Sidesplash as Noted in Interior Elevations |
| 18 | Trim Coordinated With Appliance |
| 19 | Shelf to Support Microwave. |
| 20 | Paper Towel Dispenser Furnished By Owner Installed By Contractor, Recessed Into Casework, Coordinate Dimensions and Provide Support As Needed |
| 21 | Drawer or Panel in Front of Sink |
| 22 | Cantilever Counter Top Supports @ 32" OC Max. Paint Color Selected By Architect |
| 23 | 2 Tier Lockers Provided By Owner |
| 24 | Tile As Shown In Finish Plan |
| 25 | Metal Corner Profile |
| 26 | Wood Veneer Faced Removable Panel with Solid Wood Edge. Provide Concealed Support As Required. |
| 27 | Solid Surface Countertop with Backsplash, Sidesplash, and Front Skirt as Shown |
| 28 | Finish End Panel. Match Profile for Accessibility |
| 29 | L 2" X 2" X 1/8" |
| 30 | Single Wall Audiometric Booth Furnished By Owner Installed By Contractor |
| 31 | Wood Veneer Countertops |




C1 Upper Cabinet and Microwave Support Detail
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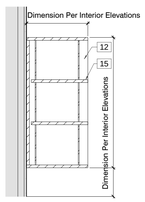
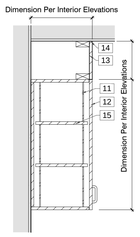
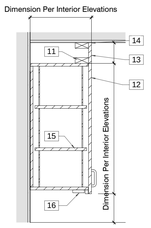


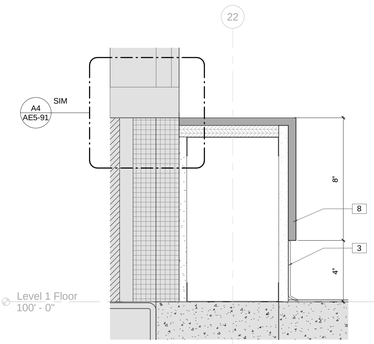

C2 Upper Shelves Detail
3/4" = 1'-0"



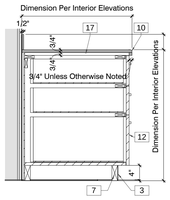

C3 Upper Cabinet Detail
3/4" = 1'-0"



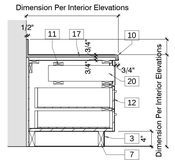

C4 Upper Cabinet Detail
3/4" = 1'-0"



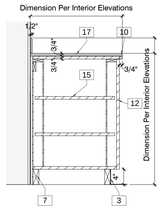

C5 Solid Surface Enclosure Detail
3" = 1'-0"



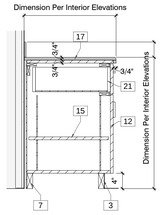

B1 Drawers
3/4" = 1'-0"



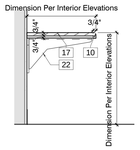

B2 Drawers With Paper Towel Dispenser Detail
3/4" = 1'-0"



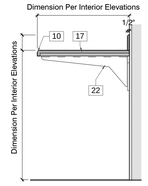

B3 Base Cabinet
3/4" = 1'-0"



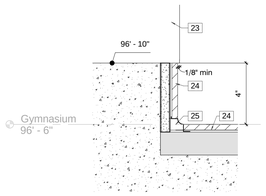

B4 Base Cabinet Upper Drawer
3/4" = 1'-0"



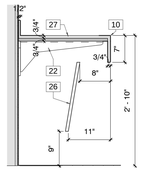

B5 Countertop Detail
3/4" = 1'-0"



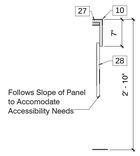

B6 Countertop Detail
3/4" = 1'-0"



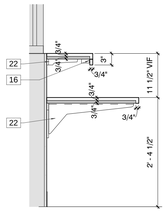

A1 Locker Room Base Detail
3" = 1'-0"



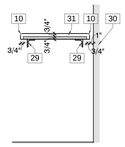

A2 Countertop Detail
3/4" = 1'-0"




A3 Countertop Side Profile
3/4" = 1'-0"




A4 AV Room Desk Detail
3/4" = 1'-0"




A5 Audiology Desk Detail
3/4" = 1'-0"


JACOBY ARCHITECTS

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Salt Lake City
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801 363 1434
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CONSULTANTS

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| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
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9/21/2015
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SHEET DATA

Drawn By: Kraig
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

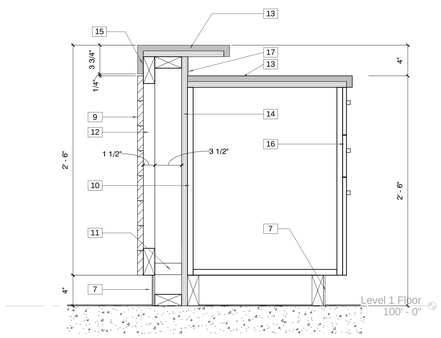
| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

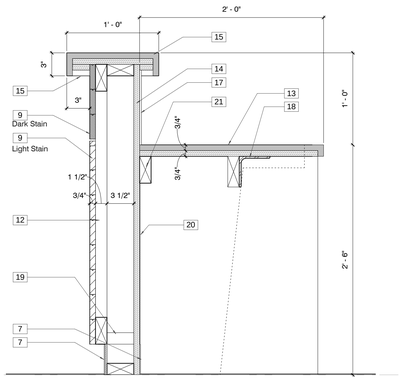
Casework Details

AE4-67

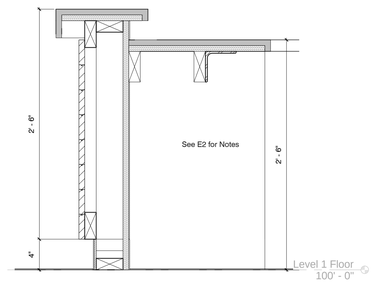
| Keynote Legend | |
|---|---|
| 1 | 1/2" Adhered Brick Veneer. Refer To Building Elevations for Coursing |
| 2 | 5/8" Glass Mat Backer Board |
| 3 | 1 Layer 5/8" Gypsum Board |
| 4 | 3/4" Or 5/8" Painted Gyp Bd. Determine Appropriate Thickness Based On Thickness Of Textured Wall Panel Below |
| 5 | 1X Painted Wood Trim |
| 6 | 16" High Modular Profile Panel |
| 7 | Resilient Base As Scheduled |
| 8 | Js-4 Acoustical Sealant at Entire Perimeter and At All Penetrations. |
| 9 | 1X4 Tongue And Groove Board Paneling |
| 10 | Wood Veneer Faced Base Cabinets with Lockable Doors and Adjustable Shelves |
| 11 | Wood Blocking |
| 12 | Substrate For Wood Board Paneling From 2" X 2" Wood Furring @ 16" O.C. |
| 13 | Simulated Stone Counter Top |
| 14 | 3/4" Plywood |
| 15 | Simulated Stone Apron |
| 16 | Wood Veneer Faced Lockable Base Drawers |
| 17 | 1/4" Cork Tackboard |
| 18 | L 4" X 4" x 1/4" |
| 19 | Wood Blocking As Required |
| 20 | Wood Veneer |
| 21 | Blocking |



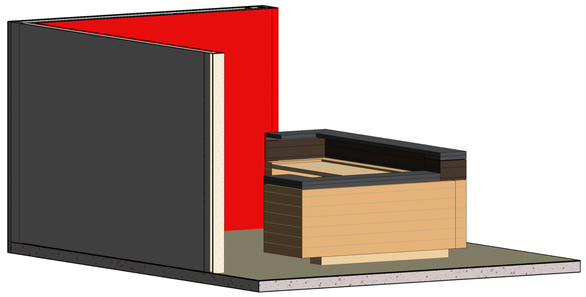

E1 Front Desk Detail
1 1/2" = 1'-0"



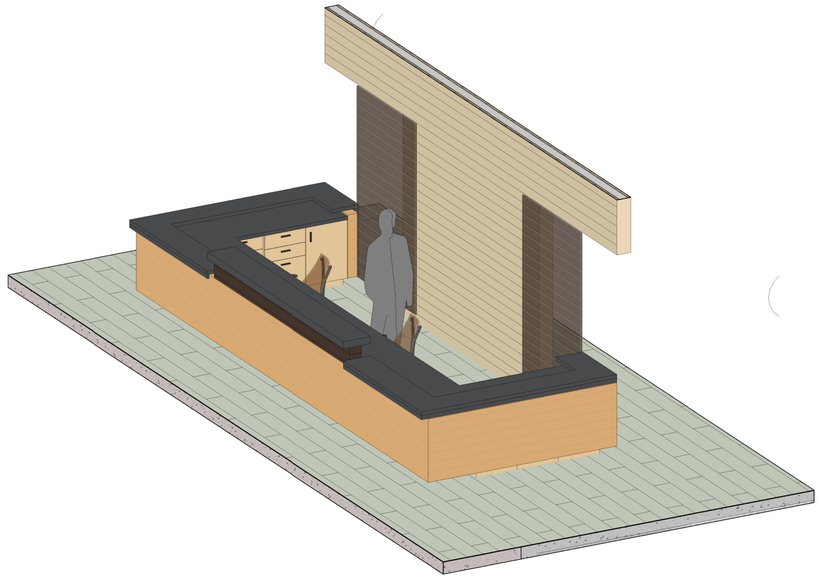

E2 Front Desk Detail
1 1/2" = 1'-0"



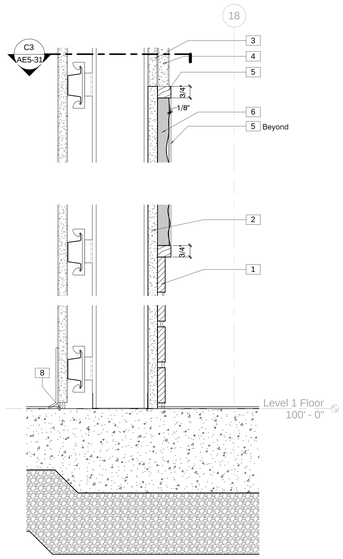

E4 Front Desk Detail
1 1/2" = 1'-0"



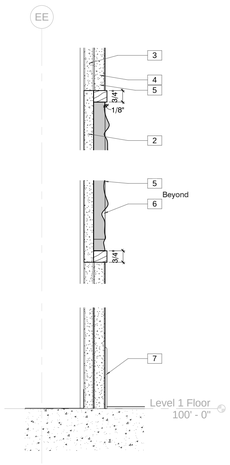
C2 Level 2 Reception



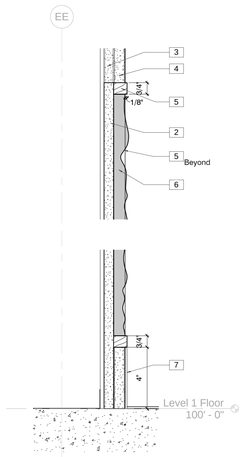
C5 Front Desk Level 1




A1 Profile Panel Detail
3" = 1'-0"




A2 Profile Panel Detail
3" = 1'-0"




A3 Profile Panel Detail
3" = 1'-0"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801 363 1434
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CONSULTANTS

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| Landscape: - | Landmark Design - 801.474.3300 |
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Eric R. Jacoby
9/21/2015
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SHEET DATA

Drawn By: Kraig
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

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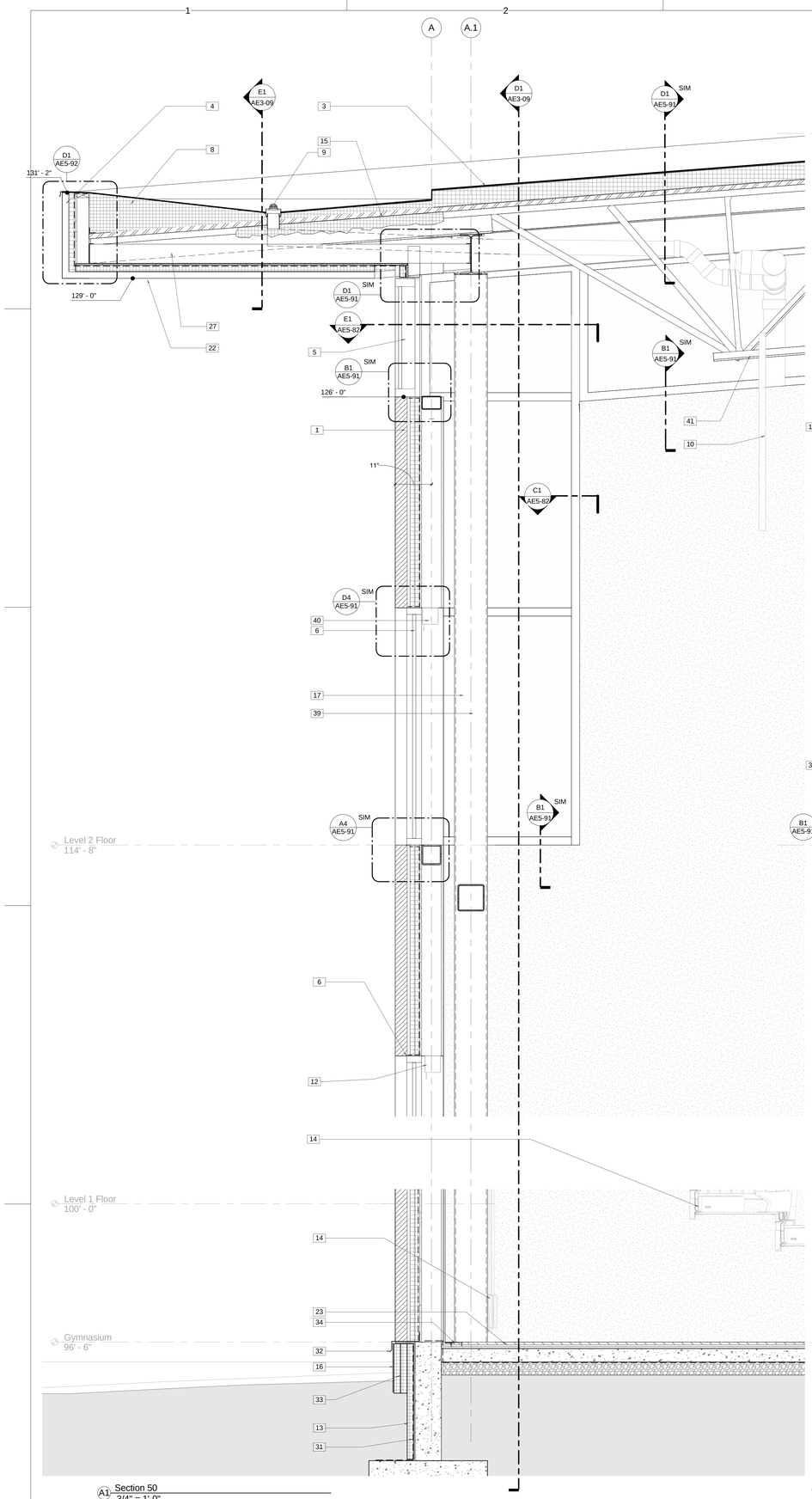
| 2015 05 21 | Bidding Documents |

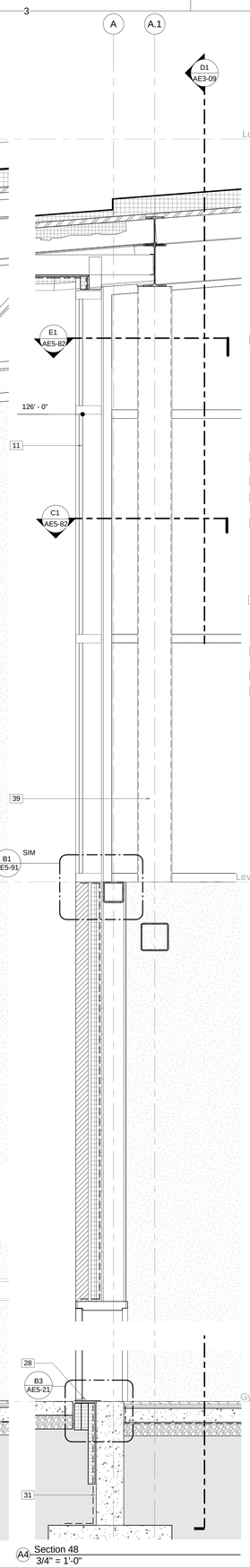
Construction Documents

Casework Details

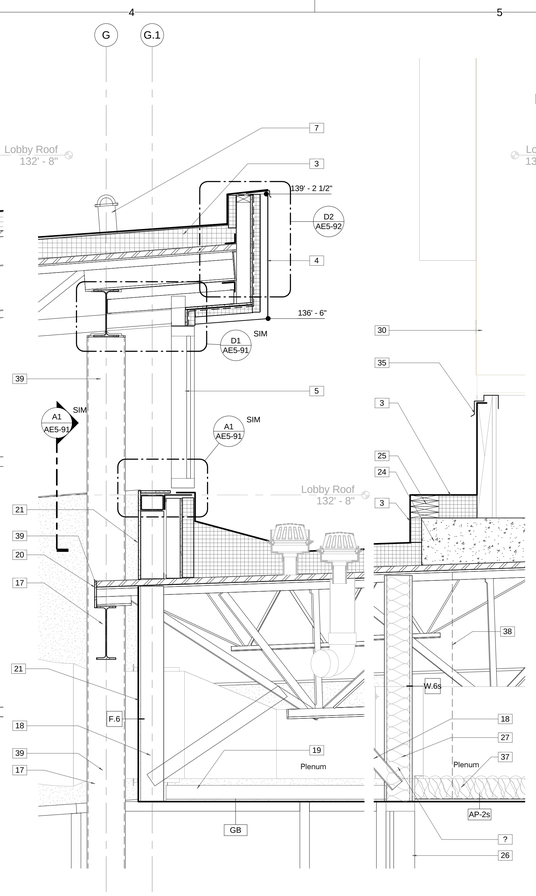
AE4-68



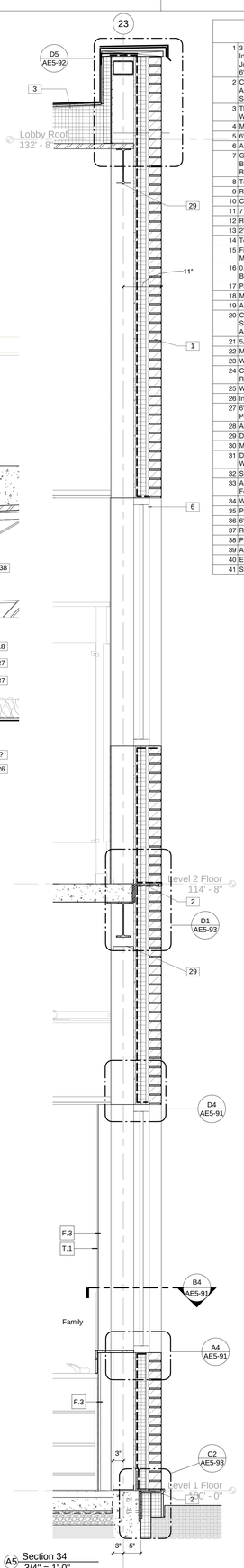

A1 Section 50
3/4" = 1'-0"




A4 Section 48
3/4" = 1'-0"




C4 Section 51
3/4" = 1'-0"




A5 Section 34
3/4" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 2 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 3 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 4 | Metal Composite Wall Panel |
| 5 | 6" Conventionally Glazed Aluminum Curtainwall System |
| 6 | Aluminum Framed Storefront System |
| 7 | Galvanized Fall Protection Tie In Point. Locate Galvanized Dip Hole At Bottom Of Assembly - See Structural For Connection. See Architectural Roof Plan For Locations. |
| 8 | Tapered Insulation below TPO Roof Membrane |
| 9 | Roof Drain Refer To Plumbing Drawings |
| 10 | Ceiling Mounted Sound Absorbing Baffle |
| 11 | 7 1/2" Conventionally Glazed Aluminum Curtainwall System |
| 12 | Roller Window Shades |
| 13 | 2" Rigid R10 Foundation Insulation |
| 14 | Telescoping Gymnasium Seating Provided By Owner |
| 15 | Fill Area Indicated With Closed Cell Spray Foam Insulation (R6.2 Minimum Per Inch) 4" Minimum Total Thickness. R 24.8 Total |
| 16 | 0.010" Prefinished Aluminum Protection Panel. Extend A Minimum of 3" Below Finish Grade |
| 17 | Paint Exposed Steel Member, Typical |
| 18 | Metal Stud Bracing |
| 19 | Acoustical Panel Ceilings |
| 20 | Continuous Steel Plate To Conceal Joist Ends And Roof Deck. Install Straight And True, Bondo Gaps And Grind Smooth. Paint To Match Adjacent Structure. See Structural |
| 21 | 5/8" Gypsum Board On Metal Stud Framing |
| 22 | Metal Composite Soffit Panels |
| 23 | Wood Athletic Flooring |
| 24 | Cast In Place Concrete Equipment Pad 6" Thick Minimum Above Flutes. Refer To Mechanical For Size. |
| 25 | Wood Curb From Treated 2X6 Members. |
| 26 | Interior Glazed Aluminum Curtain Walls |
| 27 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 28 | Aluminum Threshold |
| 29 | Deflection Head Track For 1" Of Vertical Deflection, Typical |
| 30 | Mechanical Equipment, Refer to Mechanical Drawings |
| 31 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 32 | Stainless Steel drip edge |
| 33 | Additional Layers of 2" Rigid Insulation as Indicated, Over 2" Rigid R10 Foundation Insulation to Fill Cavity below Relieving Angle |
| 34 | Wood Flooring Expansion Joint Cover |
| 35 | Prefinished 22 Gage Counterflashing |
| 36 | 6" Unfaced Sound Blanket |
| 37 | R-13 Unfaced Sound Blanket |
| 38 | Provide Resilient Hangers At All Ceilings Below Mechanical Room |
| 39 | Architecturally Exposed Structural Steel Framing |
| 40 | Electrical Operated Roller Window Shades With Metal Valence |
| 41 | Steel Joist refer to Structural Framing Plans |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801 363 1434
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### SHEET DATA

Drawn By: Eric
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

| Revision | Date |
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### ISSUE/PHASE

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| 2015 03 13 | 75% Progress Set |
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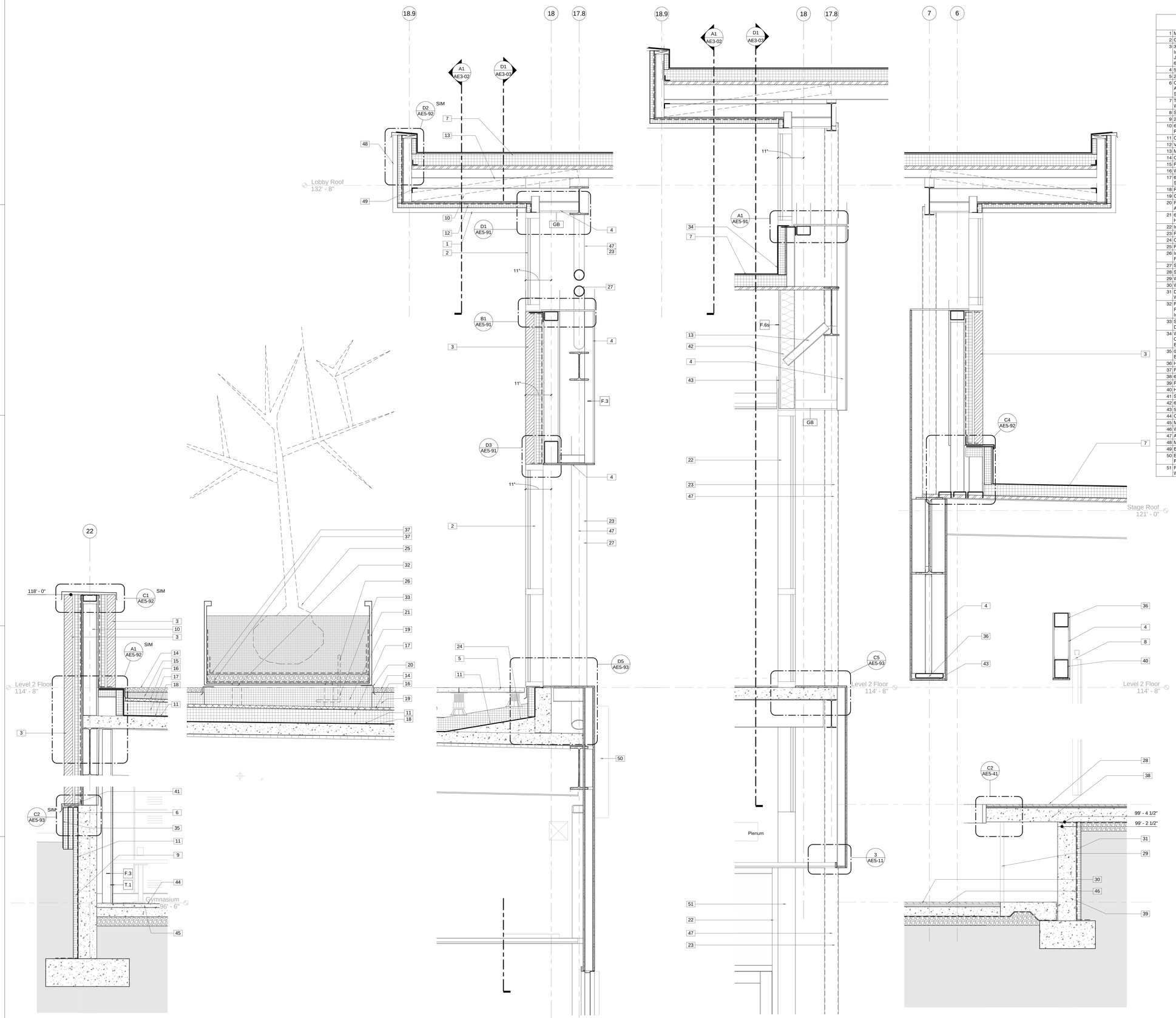
| 2015 05 21 | Bidding Documents |

Construction Documents

# Exterior Wall Sections

AE4-71




A1 Section 52
3/4" = 1'-0"

A2 Section 21
3/4" = 1'-0"

A3 Section 53
3/4" = 1'-0"

A4 Section 92
3/4" = 1'-0"

A5 Section 54
3/4" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Metal Composite Soffit Panels |
| 2 | Glazed Aluminum Framed Curtain Wall System |
| 3 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 4 | 5/8" Gypsum Board On Metal Stud Framing |
| 5 | 24" Square Concrete Pavers on Pedestals |
| 6 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 7 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 8 | Stage Curtains Furnished By Owner, Installed By Contractor |
| 9 | 2" Rigid R10 Foundation Insulation |
| 10 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 11 | Cold Fluid Applied Waterproofing Membrane |
| 12 | Vapor Impermeable Fluid Applied Air Barrier |
| 13 | Metal Stud Bracing |
| 14 | Crushed Stone |
| 15 | Planting Media |
| 16 | Water Retention Layer With Integrated Filter Fabric |
| 17 | 6" XPS Rigid Insulation (3 Layers of 2" With Staggered Joints) Provides Slots in Base Layer |
| 18 | Root Barrier |
| 19 | Geofoam |
| 20 | Planter box Support Curb Flashing Fabricated from .078 Prefinished Aluminum. |
| 21 | 6' X 6' Planter Box Furnished By Owner, Installed By Contractor. Provide Holes In Base Of Planter Box As Required For Irrigation And Drainage. |
| 22 | Interior Glazed Aluminum Curtain Walls |
| 23 | Paint Exposed Steel Member, Typical |
| 24 | Concrete Cricket Sloped To Fall towards Roof Drain Location |
| 25 | Plants |
| 26 | Irrigation Line. See Irrigation Drawings. Provide Hole In Owner Furnished Planter Box As Required |
| 27 | Steel Brace Member, Refer To Structural Drawings |
| 28 | Simulated Wood Flooring, Refer To Finish Schedule. |
| 29 | Wood Veneer Faced Architectural Cabinets |
| 30 | Wood Athletic Flooring |
| 31 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 32 | Provide (4) 2" Holes for Drainage and (1) 3" Hole for Irrigation Penetration as In Owner Furnished Planter Box and In Geofoam as Indicated |
| 33 | Slot Geofoam For Irrigation Line Path As Indicated. See Irrigation Drawings |
| 34 | Wrap TPO Membrane up Curb and Seal to Sheet Metal Chemical Compatibility Separation Strip, Which is Sealed to Air Barrier Glazing Boot |
| 35 | 0.010" Prefinished Aluminum Protection Panel. Extend A Minimum of 3" Below Finish Grade |
| 36 | HSS refer to Structural Drawings. |
| 37 | Filter Fabric |
| 38 | 6" Thick Concrete Slab, See Structural |
| 39 | Reinforced Concrete Wall refer to Structural |
| 40 | HSS 6X2 See Structural |
| 41 | Stainless Steel drip edge |
| 42 | 6" Unfaced Sound Blanket |
| 43 | 5/8" Gypsum Board |
| 44 | Ceramic Floor Tile |
| 45 | Mortar Setting Bed |
| 46 | Wood Flooring Expansion Joint Cover |
| 47 | Architecturally Exposed Structural Steel Framing |
| 48 | Metal Composite Wall Panel |
| 49 | Brake Metal Angle for Metal Stud Support |
| 50 | Electronic Scoreboard Furnished By Owner, Installed By Contractor. Provide backing as required |
| 51 | Pre-Finished .461" Aluminum Brake Shape to Match Aluminum Curtain Wall System |


JACOBY ARCHITECTS

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Drawn By: Eric

Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

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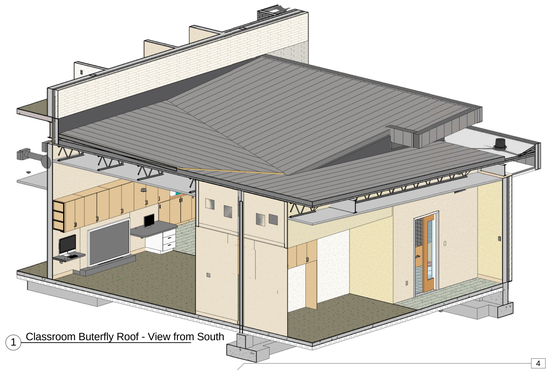
Construction Documents

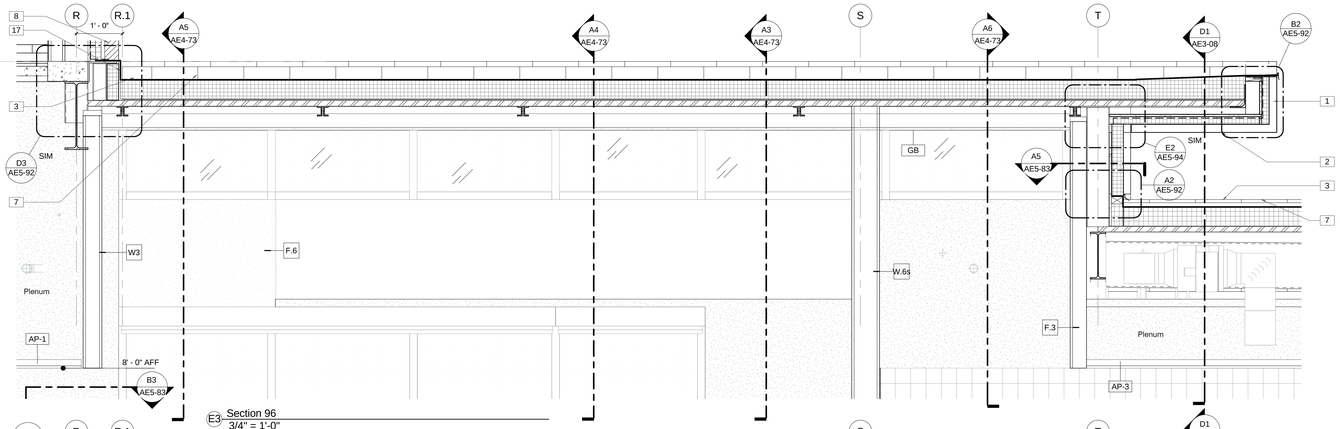
# Exterior Wall Sections

# AE4-72

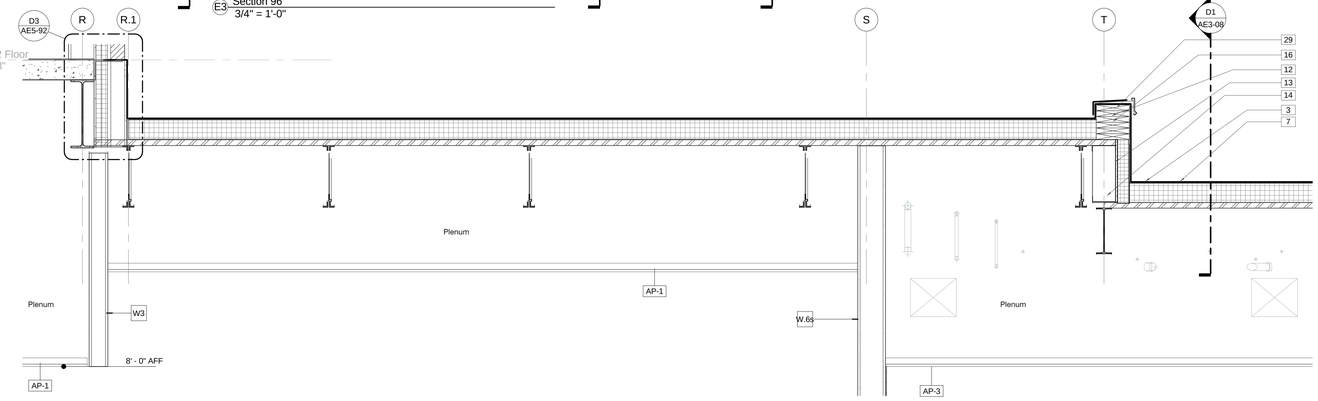
2 Classroom Buterfly Roof - View from North



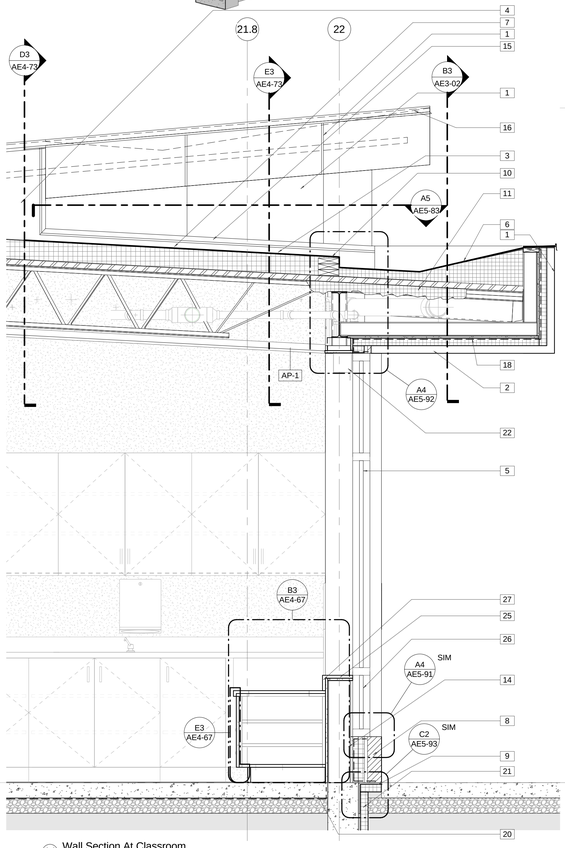
1 Classroom Buterfly Roof - View from South



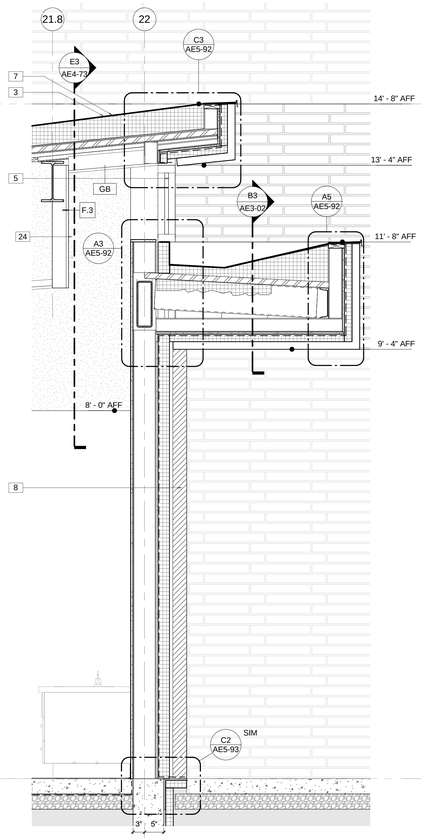

E3 Section 96
3/4" = 1'-0"



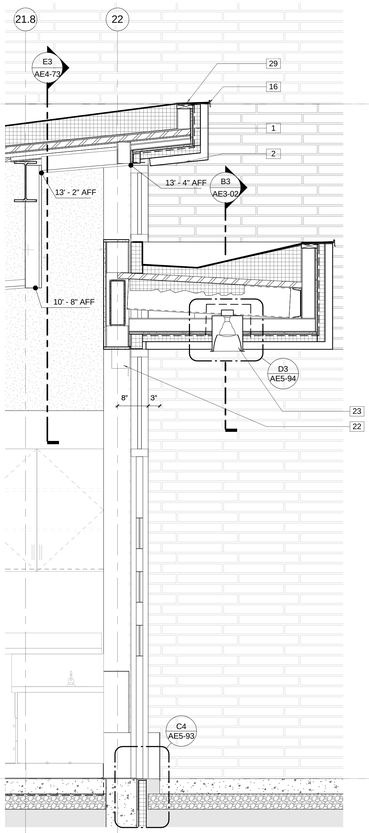

D3 Section 99
3/4" = 1'-0"



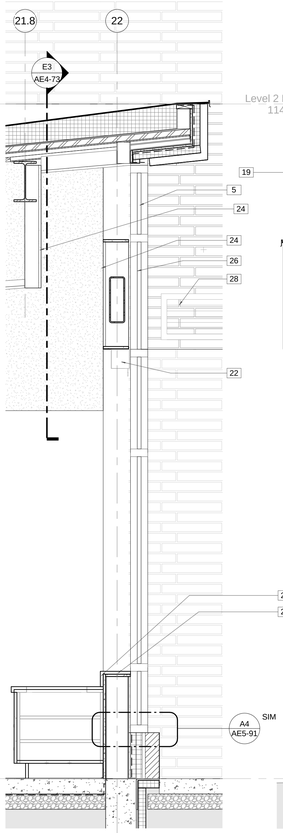
A1 Wall Section At Classroom
3/4" = 1'-0"



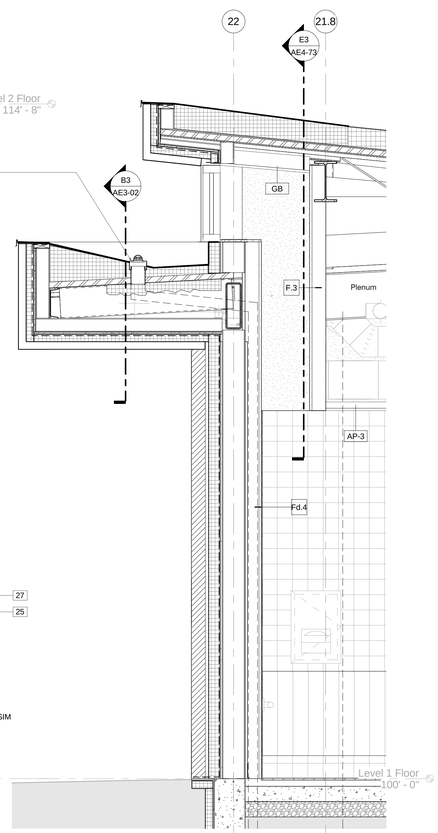

A3 Wall Section At Classroom
3/4" = 1'-0"




A4 Wall Section At Classroom
3/4" = 1'-0"




A5 Wall Section At Classroom
3/4" = 1'-0"




A6 Wall Section At Children's Toilet Room
3/4" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Metal Composite Wall Panel |
| 2 | Metal Composite Soffit Panels |
| 3 | KEE Membrane Over Base Layer of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 4 | KEE Membrane Over 1/4" Cover Board Over Roof Deck |
| 5 | Aluminum Framed Storefront System |
| 6 | Tapered Insulation below Cover Board and KEE Roof Membrane |
| 7 | Adhered Simulated Standing Seam |
| 8 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 9 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 10 | Blocking |
| 11 | Fill Area Indicated With Closed Cell Spray Foam Insulation (R6.2 Minimum Per Inch) 4" Minimum Total Thickness. R 24.8 Total |
| 12 | Wood Curb From Treated 2X6 Members. |
| 13 | 1/2" Glass Mat Sheathing |
| 14 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 15 | Prefinished 22 Gage Flashing |
| 16 | 22 Gage Prefinished Clip-On Fascia Trim |
| 17 | Wrap KEE Membrane Up Curb and Seal to Sheet Metal Chemical Compatibility Separation Strip Which Is Sealed To Air Barrier |
| 18 | Vapor Impermeable Fluid Applied Air Barrier |
| 19 | Roof Drain Refer To Plumbing Drawings |
| 20 | Vapor Retarder |
| 21 | 2" Rigid R10 Foundation Insulation |
| 22 | Manually Operated Roller Window Shades With Metal Valence |
| 23 | Light Fixture refer to Electrical Drawings |
| 24 | 5/8" Gypsum Board On Metal Stud Framing |
| 25 | Solid Surface Window Stool |
| 26 | Spandrel Glass |
| 27 | Solid Surface Countertop with Backsplash, Sidesplash, and Front Skirt as Shown |
| 28 | Mechanical Louver, Refer To Mechanical Drawings |
| 29 | KEE Membrane Sealed To Pre-Coated Flashing |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

| | |
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| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
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| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrzewski Designs - 801.582.9747 |

### STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT


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### SHEET DATA

Drawn By: Eric
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building, Salt Lake City, Utah 84114 - 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

| Revision | Date |
|---|---|

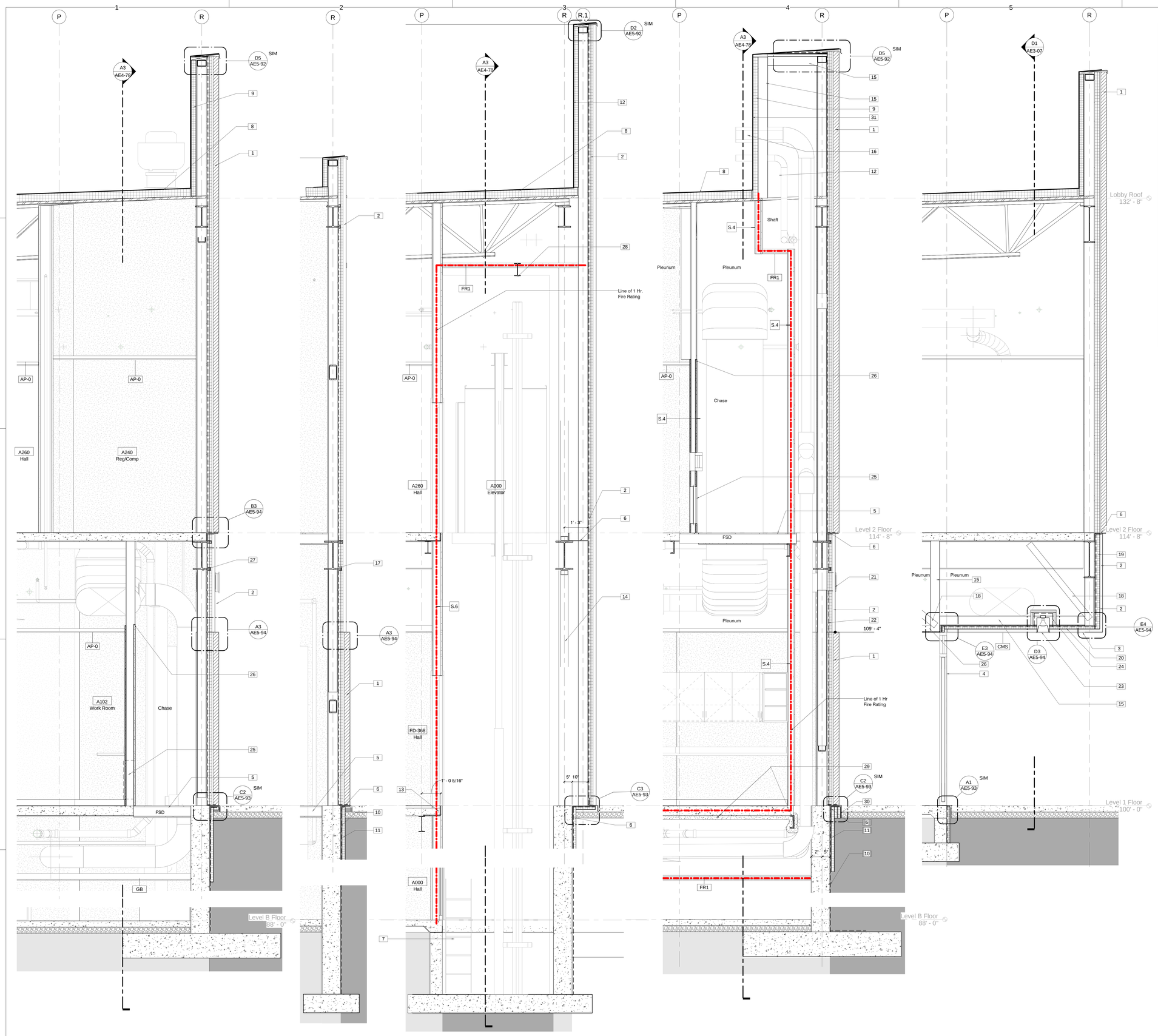
### ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Exterior Wall Sections

AE4-73




A1 Section 65
1/2" = 1'-0"

A3 Section 66
1/2" = 1'-0"

3 Section 67
1/2" = 1'-0"

A4 Section 68
1/2" = 1'-0"

A5 Section 108
1/2" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 2 | Metal Composite Wall Panel |
| 3 | Metal Composite Soffit Panels |
| 4 | Aluminum Framed Storefront System |
| 5 | Metal Stud Floor Assembly With Gypsum Wall Board On Top And Bottom. Fire Caulk All Penetrations |
| 6 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 7 | Steel Pit Ladder |
| 8 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 9 | 3" Rigid Insulation, Minimum R-5 per Inch. |
| 10 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 11 | 2" Rigid R10 Foundation Insulation |
| 12 | Wrap TPO Membrane Up Curb and Seal To Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Air Barrier |
| 13 | Bent Steel Plate Refer To Structural Drawings |
| 14 | Steel Brace Member, Refer To Structural Drawings |
| 15 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 16 | Mechanical Equipment, Refer to Mechanical Drawings |
| 17 | Wrap Air Barrier Over Beam Flanges To Complete Air Tight Envelope, Typical, Where Occurs. Transition Air Barrier As Required By Air Barrier Manufacturer. Notch Insulation as Required. |
| 18 | Metal Stud Bracing |
| 19 | 2 Layers 1-1/2" R-5 Per Inch Cavity Insulation With Overlapping, Taped Joints. Total 3" Thickness and R15 |
| 20 | 2" Rigid Insulation, Minimum R-5 per Inch. |
| 21 | Mechanical Louver, Refer To Mechanical Drawings |
| 22 | Vapor Impermeable Fluid Applied Air Barrier |
| 23 | Recessed Light Fixture, refer to Electrical Drawings |
| 24 | Apply Air Barrier To All Interior Surfaces Of Metal Stud And Sheathing "Tent" Assembly To Complete Air Barrier Continuity With Adjacent Soffit Assembly. |
| 25 | 24"X24" Mud-In Type, Painted Access Door |
| 26 | Run Studs All The Way To Deck. Hold Gyp Bd To 4' Above Ceiling Height For Plenum Continuity. |
| 27 | Deflection Head Track For 1" Of Vertical Deflection, Typical |
| 28 | Elevator Hoisting Beam Refer To Structural Drawings. |
| 29 | Spray Applied Fireproofing For 1 Hour Fire Protection |
| 30 | 0.010" Prefinished Aluminum Protection Panel. Extend A Minimum of 3" Below Finish Grade |
| 31 | Wrap TPO Membrane up Curb and Seal to Sheet Metal Chemical Compatibility Separation Strip, Which is Sealed to Air Barrier Glazing Boot |


JACOBY ARCHITECTS

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STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
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Drawn By: Eric
Checked By: Checker

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State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
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| 2014 10 09 | Schematic Design |
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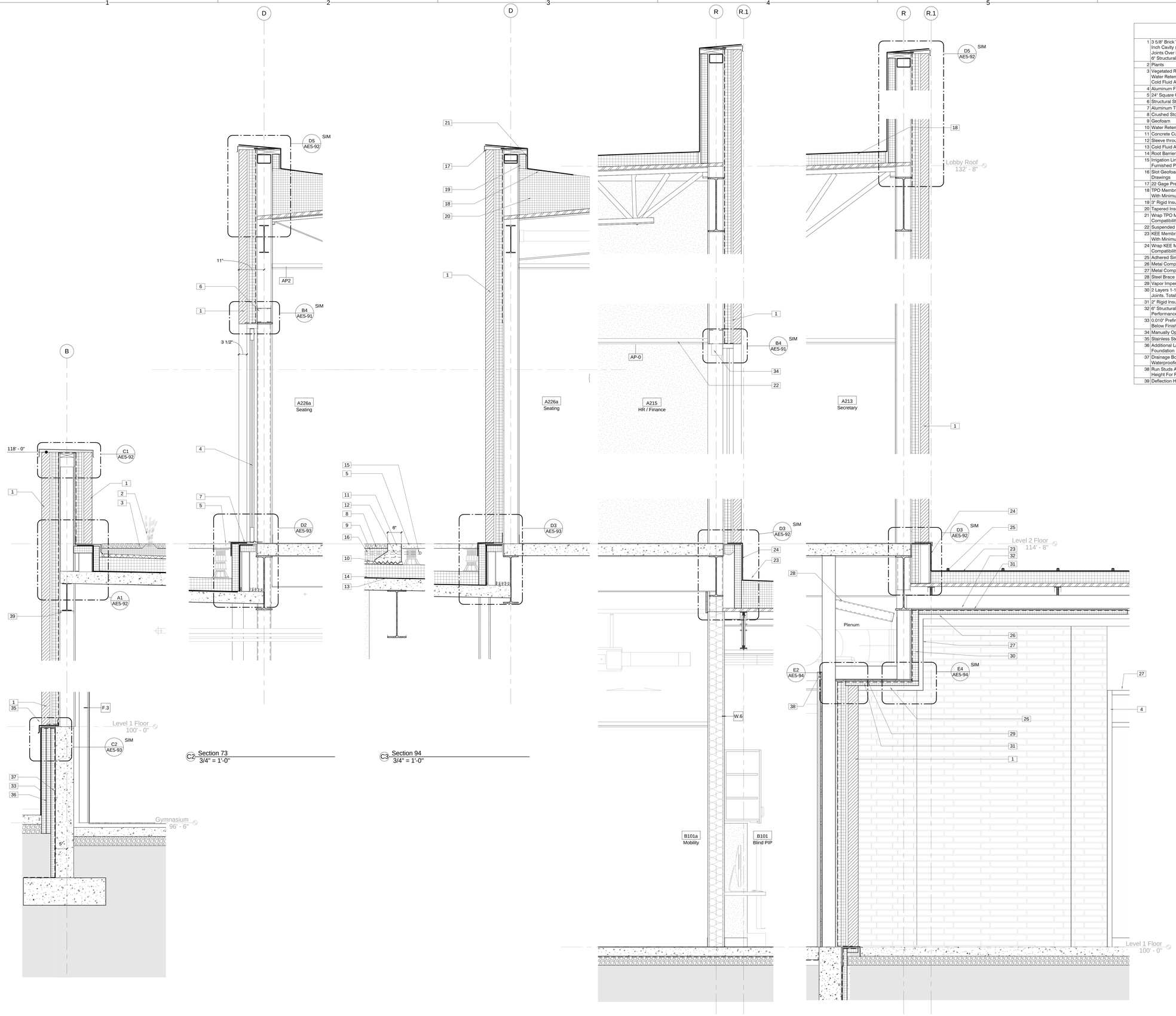
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

# Exterior Wall Sections

# AE4-74




## Keynote Legend

| | |
|---|---|
| 1 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 2 | Plants |
| 3 | Vegetated Roof Assembly: Crushed Stone Over Planting Media Over Water Retention Layer Over 6" Xps Insulation Over Root Barrier Over Cold Fluid Applied Waterproofing |
| 4 | Aluminum Framed Storefront System |
| 5 | 24" Square Concrete Pavers on Pedestals |
| 6 | Structural Stud Header as Required for Width of Opening |
| 7 | Aluminum Threshold |
| 8 | Crushed Stone |
| 9 | Geofoam |
| 10 | Water Retention Layer With Integrated Filter Fabric |
| 11 | Concrete Curb |
| 12 | Sleeve through Concrete As Required For Pipe Penetration |
| 13 | Cold Fluid Applied Waterproofing Membrane |
| 14 | Root Barrier |
| 15 | Irrigation Line. See Irrigation Drawings. Provide Hole In Owner Furnished Planter Box As Required |
| 16 | Slot Geofoam For Irrigation Line Path As Indicated. See Irrigation Drawings |
| 17 | 22 Gage Prefinished Clip-On Fascia Trim |
| 18 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 19 | 3" Rigid Insulation, Minimum R-5 per Inch. |
| 20 | Tapered Insulation below TPO Roof Membrane |
| 21 | Wrap TPO Membrane Up Curb and Seal To Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Air Barrier |
| 22 | Suspended ACT Ceiling-See Ceiling Plan For Tile Size |
| 23 | KEE Membrane Over Base Layer of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 24 | Wrap KEE Membrane Up Curb and Seal to Sheet Metal Chemical Compatibility Separation Strip Which Is Sealed To Air Barrier |
| 25 | Adhered Simulated Standing Seam |
| 26 | Metal Composite Soffit Panels |
| 27 | Metal Composite Wall Panel |
| 28 | Steel Brace Member, Refer To Structural Drawings |
| 29 | Vapor Impermeable Fluid Applied Air Barrier |
| 30 | 2 Layers 1-1/2" R-5 Per Inch Cavity Insulation With Overlapping, Taped Joints. Total 3" Thickness and R15 |
| 31 | 2" Rigid Insulation, Minimum R-5 per Inch. |
| 32 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 33 | 0.010" Prefinished Aluminum Protection Panel. Extend A Minimum of 3" Below Finish Grade |
| 34 | Manually Operated Roller Window Shades With Metal Valence |
| 35 | Stainless Steel drip edge |
| 36 | Additional Layers of 2" Rigid Insulation as Indicated, Over 2" Rigid R10 Foundation Insulation to Fill Cavity below Relieving Angle |
| 37 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 38 | Run Studs All The Way To Deck. Hold Gyp Bd To 4" Above Ceiling Height For Plenum Continuity. |
| 39 | Deflection Head Track For 1" Of Vertical Deflection, Typical |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

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No. 6380412
Eric R. Jacoby
9/21/2015
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Checked By: Checker

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DFCM # 14190230
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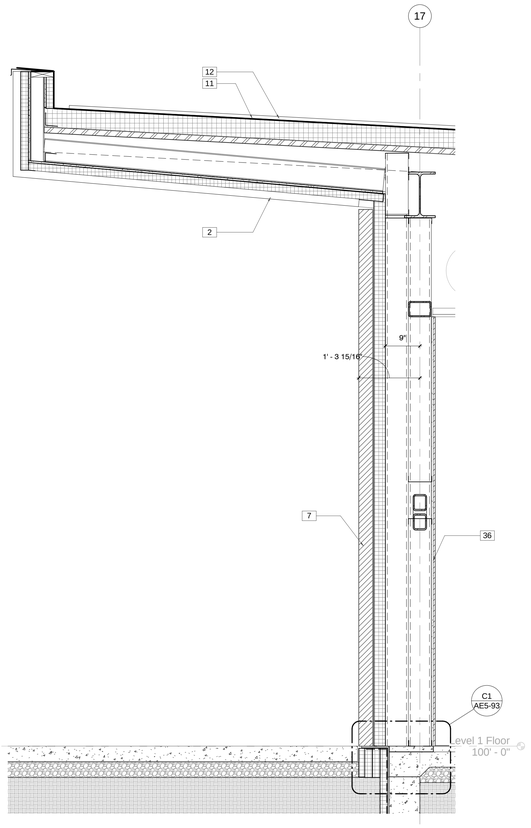
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

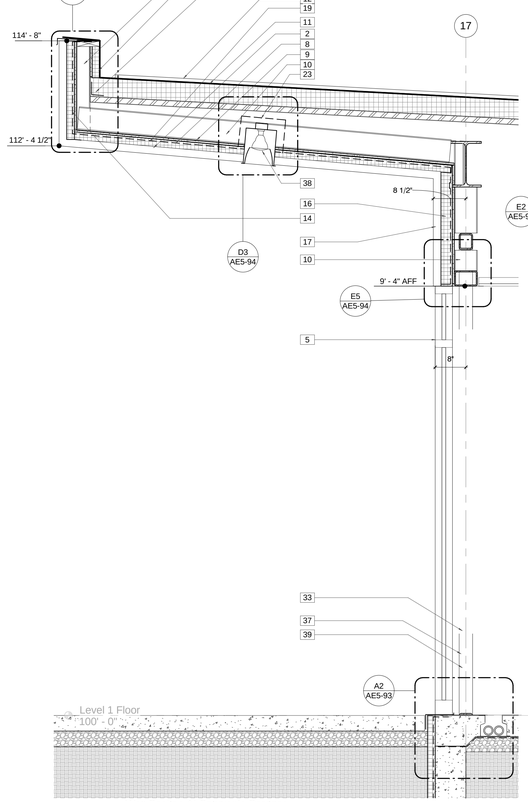
Construction Documents

# Exterior Wall Sections

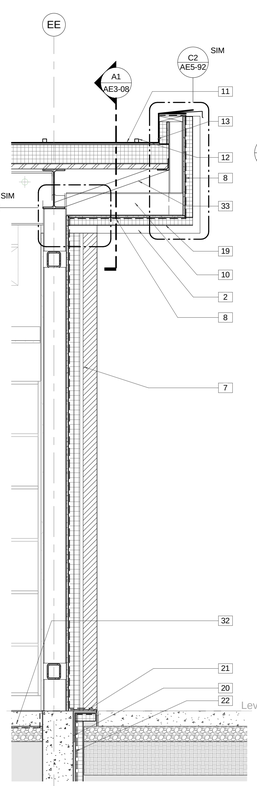
# AE4-75



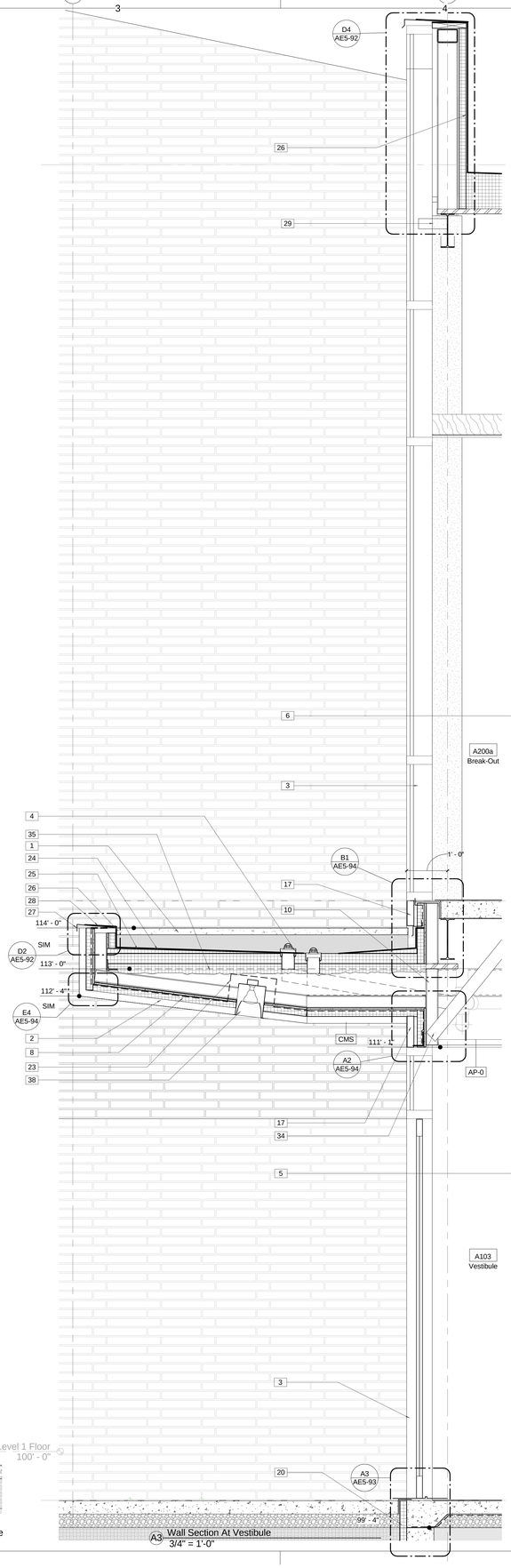

D1 Section through Brick Pilaster
3/4" = 1'-0"



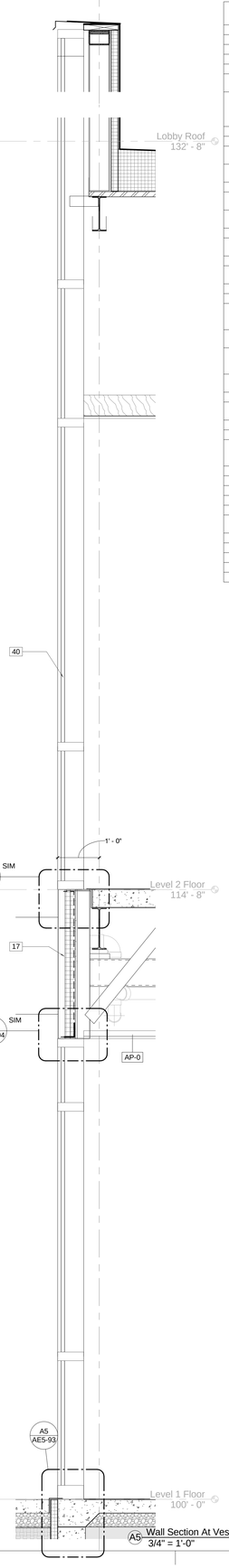

A1 Wall Section At Children's Corridor
3/4" = 1'-0"




A2 Wall Section At East Facade
3/4" = 1'-0"




A3 Wall Section At Vestibule
3/4" = 1'-0"




A5 Wall Section At Vestibule
3/4" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | 24" Square Concrete Pavers on Pedestals |
| 2 | Metal Composite Soffit Panels |
| 3 | Glazed Aluminum Framed Curtain Walls |
| 4 | Roof Drain Refer To Plumbing Drawings |
| 5 | Aluminum Framed Storefront System |
| 6 | Decorative Metal Railing with Stainless Steel Support Frame And Wood Grille Infill Panels |
| 7 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 8 | Vapor Impermeable Fluid Applied Air Barrier |
| 9 | 1/2" Glass Mat Sheathing |
| 10 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 11 | KEE Membrane Over Base Layer of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 12 | Adhered Simulated Standing Seam |
| 13 | Wrap KEE Membrane Up Curb and Seal to Sheet Metal Chemical Compatibility Separation Strip Which Is Sealed To Air Barrier |
| 14 | Lap Air Barrier Over Parapet and Seal to Sheet Metal Chemical Compatibility Strip Which Is Sealed To Roof Membrane |
| 15 | Brake Metal Angle for Metal Stud Support |
| 16 | 2 Layers 1-1/2" R-5 Per Inch Cavity Insulation With Overlapping, Taped Joints. Total 3" Thickness and R15 |
| 17 | Metal Composite Wall Panel |
| 18 | 3 5/8" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 19 | 2" Rigid Insulation, Minimum R-5 per Inch. |
| 20 | 2" Rigid R10 Foundation Insulation |
| 21 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 22 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 23 | Apply Air Barrier To All Interior Surfaces Of Metal Stud And Sheathing "Tent" Assembly To Complete Air Barrier Contnrulty With Adjacent Soffit Assembly. |
| 24 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 25 | Tapered Insulation below TPO Roof Membrane |
| 26 | Wrap TPO Membrane Up Curb and Seal To Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Air Barrier |
| 27 | 22 Gage Prefinished Clip-On Fascia Trim |
| 28 | TPO Membrane Sealed To Pre-Coated Flashing |
| 29 | Pair Of Painted Steel Plates Welded To Adjacent Beam To Accommodate Vertical Deflection, And To Resist Horizontal Movement. Designed and Installed By Curtain Wall Contractor |
| 30 | Simulated Wood Flooring, Refer To Finish Schedule. |
| 31 | 5/8" Gypsum Board On Metal Stud Framing |
| 32 | Vapor Retarder |
| 33 | Steel Brace Member, Refer To Structural Drawings |
| 34 | Metal Stud Bracing |
| 35 | Fill Area Indicated With Closed Cell Spray Foam Insulation (R6.2 Minimum Per Inch) 4" Minimum Total Thickness. R 24.8 Total |
| 36 | 1/2" Adhered Brick Veneer |
| 37 | Architecturally Exposed Structural Steel Framing |
| 38 | Recessed Light Fixture, refer to Electrical Drawings |
| 39 | Paint Exposed Steel Member, Typical |
| 40 | 7 1/2" Conventionally Glazed Aluminum Curtainwall System |


JACOBY ARCHITECTS

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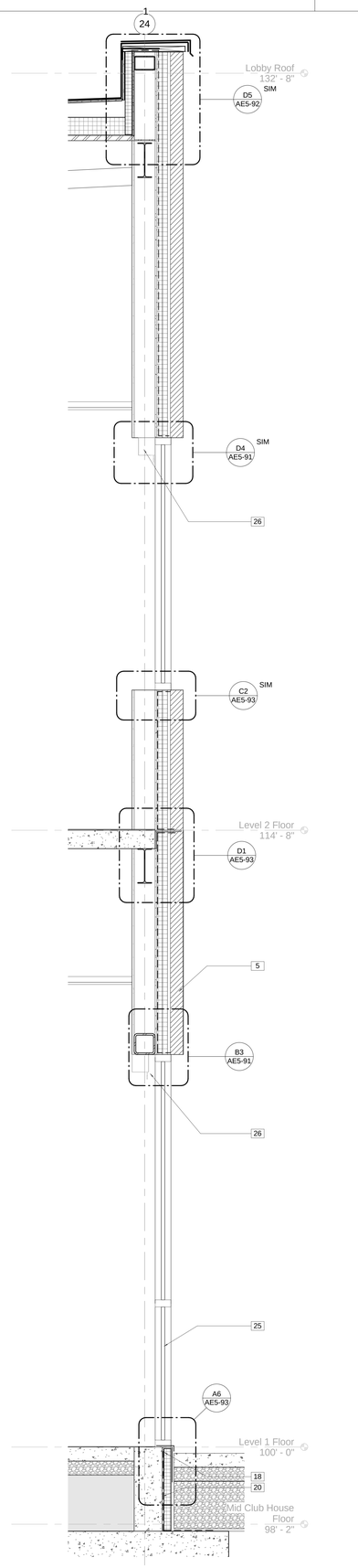
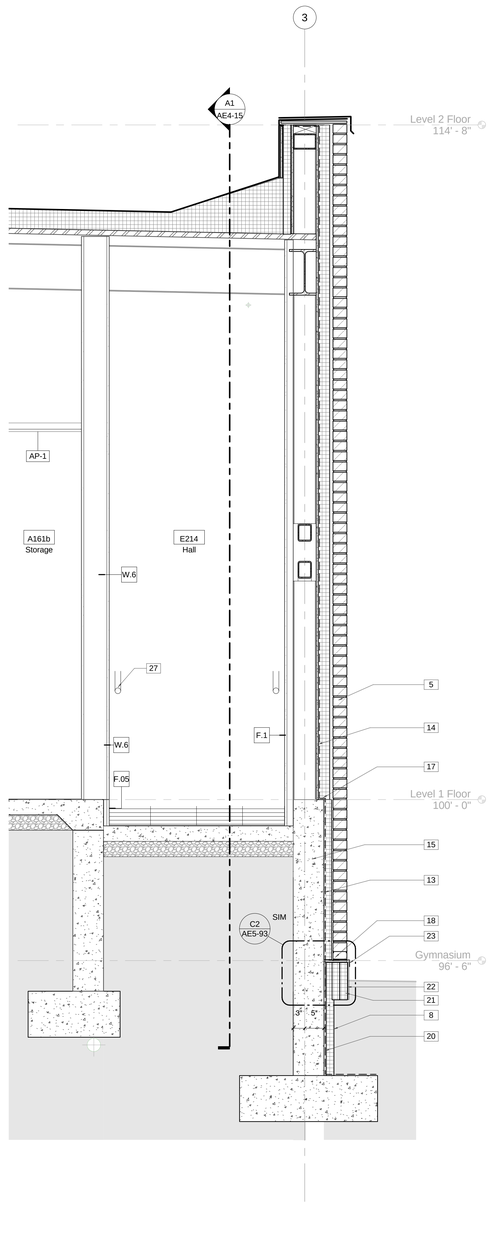
Construction Documents

# Exterior Wall Sections

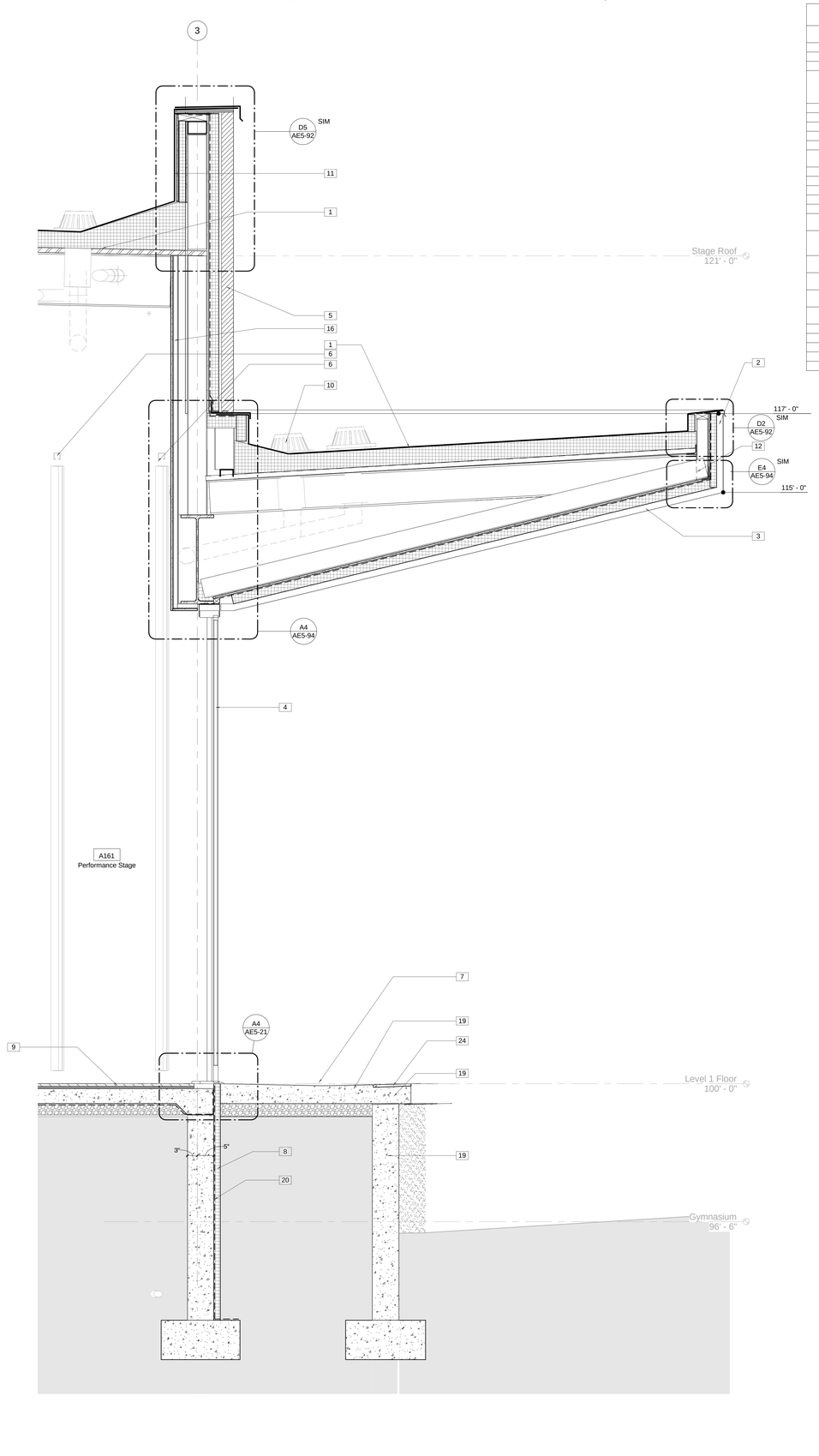
# AE4-76




A1 Section 44
3/4" = 1'-0"




A2 Section 60
3/4" = 1'-0"




A3 Section 55
3/4" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 2 | Metal Composite Wall Panel |
| 3 | Metal Composite Soffit Panels |
| 4 | Sliding Aluminum-Framed Glass Doors |
| 5 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (8" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 6 | |
| 7 | Floor Drain |
| 8 | 2" Rigid R10 Foundation Insulation |
| 9 | Simulated Wood Flooring, Refer To Finish Schedule. |
| 10 | Roof Drain Refer To Plumbing Drawings |
| 11 | Wrap TPO Membrane Up Curb and Seal To Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Air Barrier |
| 12 | Brake Metal Angle for Metal Stud Support |
| 13 | Cold Fluid Applied Waterproofing |
| 14 | Vapor Impermeable Fluid Applied Air Barrier |
| 15 | Reinforced Concrete Wall refer to Structural |
| 16 | 1 5/8" Metal Stud Framing |
| 17 | Seal Waterproofing To Sheet Metal Chemical Compatibility Strip Which Is Sealed To Air Barrier |
| 18 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 19 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |
| 20 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 21 | Additional Layers of 2" Rigid Insulation as Indicated, Over 2" Rigid R10 Foundation Insulation to Fill Cavity below Relieving Angle |
| 22 | 0.010" Prefinished Aluminum Protection Panel. Extend A Minimum of 3" Below Finish Grade |
| 23 | Stainless Steel drip edge |
| 24 | Tactile Warning Surface |
| 25 | Aluminum Framed Storefront System |
| 26 | Manually Operated Roller Window Shades With Metal Valence |
| 27 | 1 1/2" Stainless Steel Tube Railing |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

| | |
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| Architectural: | Jacoby Architects, Inc. - 801.363.1434 |
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| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrzewski Designs - 801.582.9747 |

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STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT


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### SHEET DATA

Drawn By: Eric
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building, Salt Lake City, Utah 84114 - 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

| Revision | Date |
|---|---|

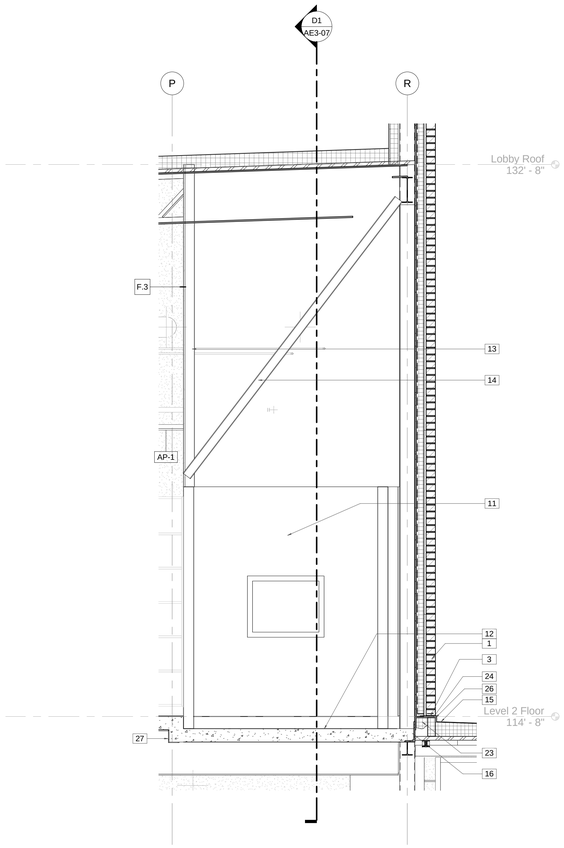
### ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

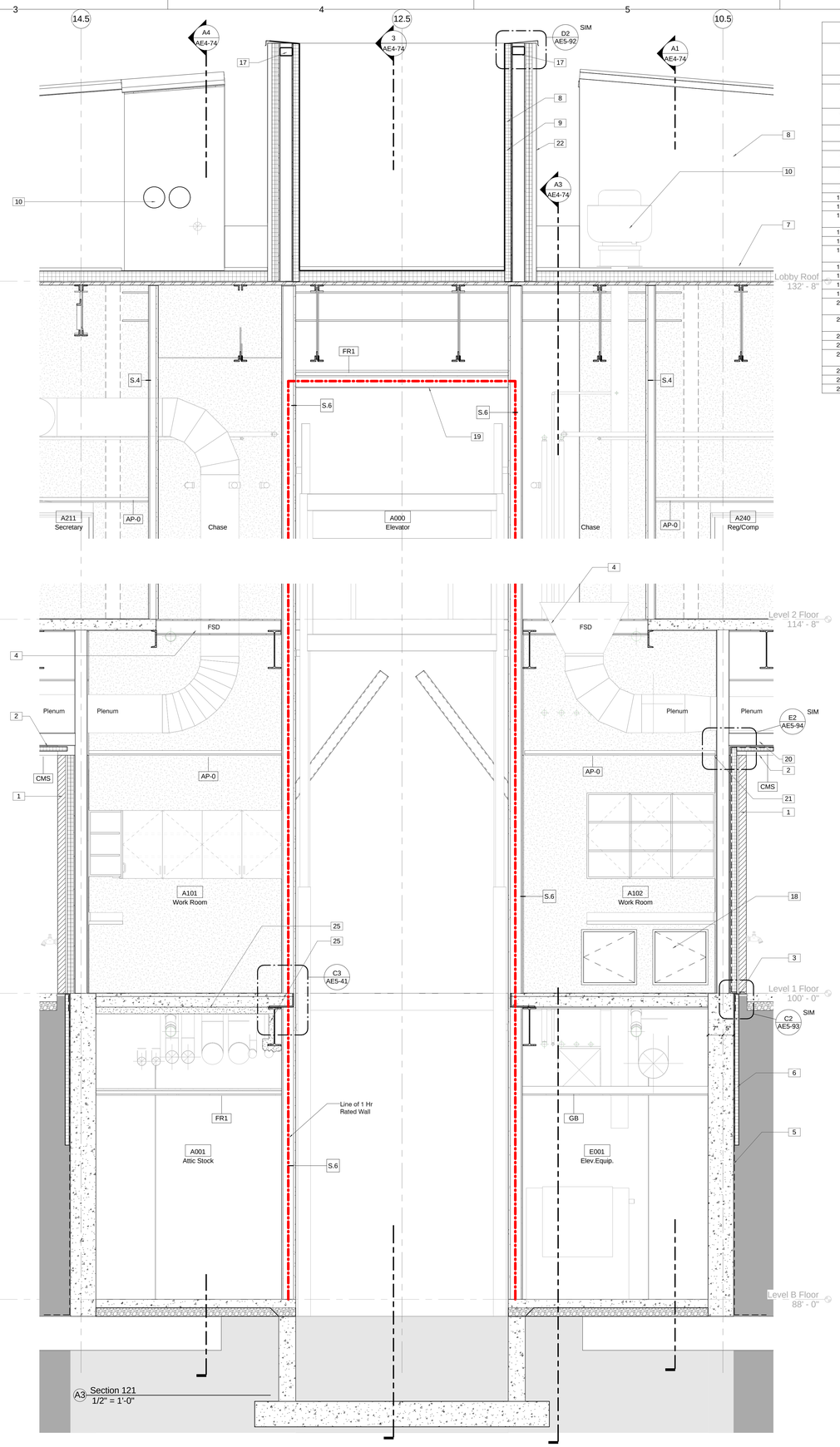
Construction Documents

# Exterior Wall Sections

# AE4-77




1 Audiology Booth
1/2" = 1'-0"




A3 Section 121
1/2" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 2 | Metal Composite Soffit Panels |
| 3 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 4 | Metal Stud Floor Assembly With Gypsum Wall Board On Top And Bottom. Fire Caulk All Penetrations |
| 5 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 6 | 2" Rigid R10 Foundation Insulation |
| 7 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 8 | Wrap TPO Membrane Up Curb and Seal To Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Air Barrier |
| 9 | 3" Rigid Insulation, Minimum R-5 per Inch. |
| 10 | Mechanical Equipment, Refer to Mechanical Drawings |
| 11 | Audiometric Test Booths Furnished By Owner Installed By Contractor |
| 12 | Recessed Slab for Audiometric Booth. Coordinate Dimensions and Depth with Booth Manufacturer. |
| 13 | 5/8" Gypsum Board On Metal Stud Framing |
| 14 | Metal Stud Bracing |
| 15 | KEE Membrane Over Base Layer of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 16 | Galvanized Bent Plate - See Structural |
| 17 | HSS refer to Structural Drawings. |
| 18 | 24"X24" Mud-In Type, Painted Access Door |
| 19 | Elevator Hoisting Beam Refer To Structural Drawings. |
| 20 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 21 | Run Studs All The Way To Deck. Hold Gyp Bd To 4" Above Ceiling Height For Plenum Continuity. |
| 22 | Metal Composite Wall Panel |
| 23 | Fill Entire Frame with Closed Cell Spray Foam Insulation |
| 24 | Wrap KEE Membrane Up Curb and Seal to Sheet Metal Chemical Compatibility Separation Strip Which Is Sealed To Air Barrier |
| 25 | Spray Applied Fireproofing For 1 Hour Fire Protection |
| 26 | Prefinished 22 Gage Counterflashing |
| 27 | Structural Steel Framing, Refer To Structural Drawings |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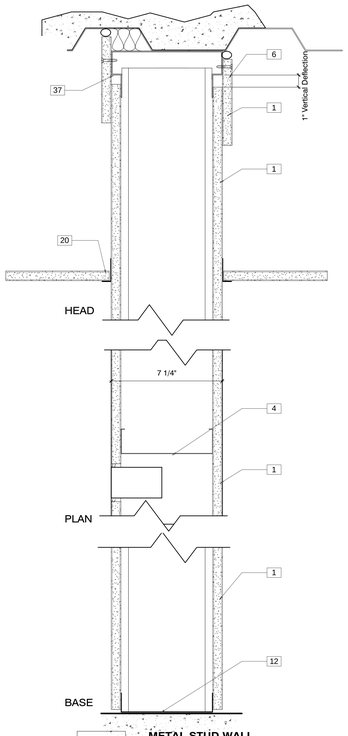
Construction Documents

Exterior Wall Sections

AE4-78

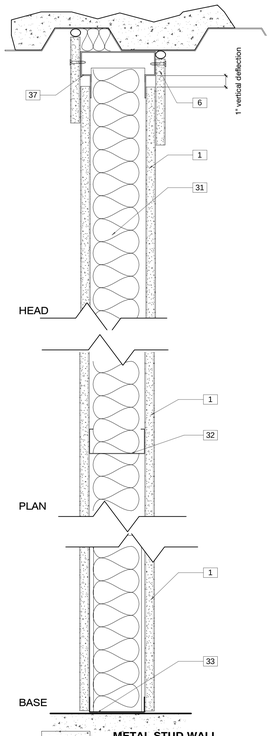



W.6 **METAL STUD WALL**

W.6s Same as W.6 with 6" unfaced sound blanket, and perimeter/ all penetrations sealed with acuoustical sealant

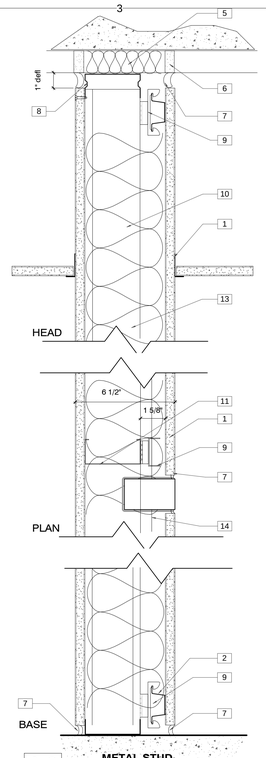
W.6t Same as W.6s but in lieu of 1 layer of 5/8" gyp bd. provide 5/8" glass mat backer board and 1/2" nominal profile panel, or 5/8" gyp board and either 5/8" or 3/4" gyp board.

1-Hr Rated: U.L 419
STC 48




W.3 **METAL STUD WALL**

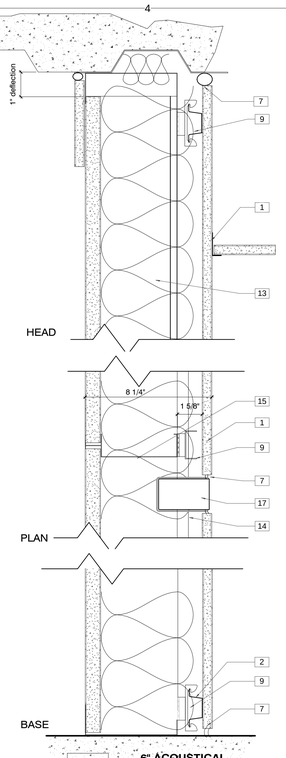
1-Hr Rated: U.L 419




A.3 **METAL STUD ACOUSTICAL**

A.3t Same as A.3 but on non RSIC side, in lieu of 1 layer of 5/8" gyp bd. provide 5/8" glass mat backer board and 1/2" adhered brick, or 5/8" glass mat backer board and 1/2" nominal profile panel, or 5/8" gyp board and either 5/8" or 3/4" gyp board.

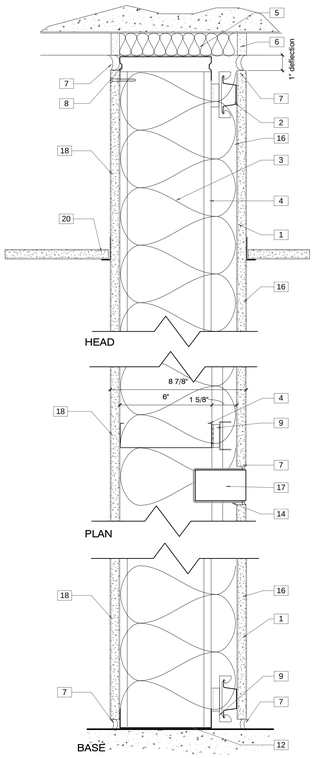
1-Hr Rated: U.L 419
STC 58 Wal SS RAL 05 - 013




A.6s **6" ACOUSTICAL SHAFT WALL**

| Keynote Legend | |
|---|---|
| 1 | 5/8" Gypsum Board |
| 2 | Provide 7/8" Hat Channel @ 24" O.C. If Risc-1 Clip Is Used. See Floor Plans For Partition Type. |
| 3 | 6" Unfaced Sound Blanket |
| 4 | 6" Metal Studs 22 Gauge (.0299 In) Minimum @ 24" O.C. |
| 5 | 1 - 5/8" blanket insulation packed in each flute |
| 6 | Continuous Closure strip matched to metal deck |
| 7 | Js-4 Acoustical Sealant at Entire Perimeter and At All Penetrations. |
| 8 | Deflection Head Track For 1" Of Vertical Deflection, Typical |
| 9 | RSIC-I Resilient Clip @ 48" O.C Horizontally And 24" O.C. Vertically - Or 1/2" RC Channel @ 24" O.C. Refer To Floor Plans For Partition Type. |
| 10 | 6" Unfaced Sound Blanket |
| 11 | 3 5/8" Metal Studs @ 24" O.C. ( 22 Gage Min.) |
| 12 | 6" Metal Runner |
| 13 | 6" Unfaced Sound Blanket |
| 14 | Putty Pad |
| 15 | 6" Ch X 20 Ga. Stud @ 24" O.C. |
| 16 | Provide 5/8" Moisture And Abuse Resistant Gypsum Board On Wall Type With "R" Designator. |
| 17 | Junction Box Refer To Electrical Drawings |
| 18 | Glass Mat Backer Board For Tile At Wall Types T.1 And M.1 Otherwise Use 5/8" Gypsum Board |
| 19 | 1/2" RC-1 Channel @ 24"-O.C. Install With Rigid Tab On Bottom. |
| 20 | See Ceiling Plan For Ceiling Type |
| 21 | 20 Ga. Structural Studs @ 16" O.C. Refer To Structural Drawings For Details. |
| 22 | 7/16" Plywood Sheathing |
| 23 | 1/2" Glass Mat Backer Board |
| 24 | 4" Straight Base. Color To Be Selected By Architect From Full Range Of Colors. |
| 25 | Provide 2" X 5/16" X 1/8" Thick Continuous Aluminum Angle Anchored to Wall Studs to support Glass. |
| 26 | 1/4" Spandrel Glass Adhered To Substrate. Polish All Exposed Edges |
| 27 | Plastic Laminate Over Glass Mat Sheathing. |
| 28 | 3/4" Fire Retardant Treated Plywood Sheathing. |
| 29 | 8" Cold Formed Joists, refer to Structural Drawings. |
| 30 | 1/2" Glass Mat Sheathing |
| 31 | R-13 Unfaced Sound Blanket |
| 32 | 3 5/8" Metal Stud Framing @ 16" o.c. Minimum |
| 33 | 3 5/8" Metal Runner |
| 34 | Partial Height Wall Base Connector Bolt To Floor. Size And Spacing As Required To Support Wall. |
| 35 | Hardwood Trim, Paint to Match Wall |
| 36 | Deck Support Plate, See Structural |
| 37 | 18 Gauge Fire Rated Deflection Head |
| 38 | 1 5/8" Metal Runner |
| 39 | 1 5/8" Metal Stud Framing |
| 40 | 1/4" Treated Plywood |

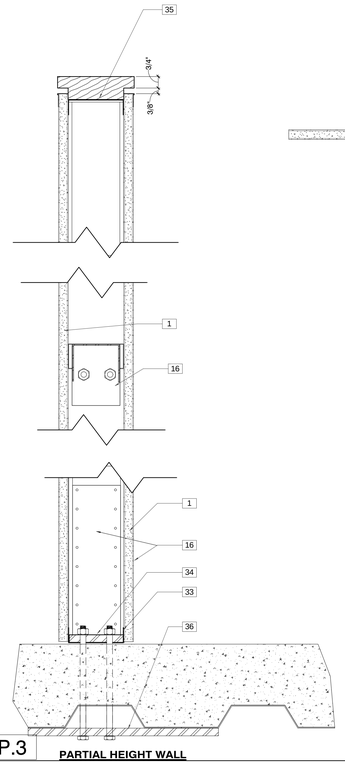
General Note:
See Plans for Location of Impact Resistant Gyp. Bd.



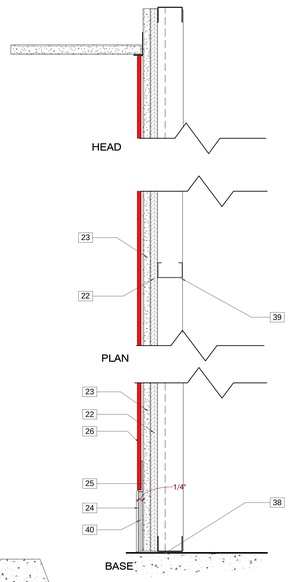

A.6 **METAL STUD ACOUSTICAL**

A.6r Same as A.6 but with abuse and moisture resistant gyp board

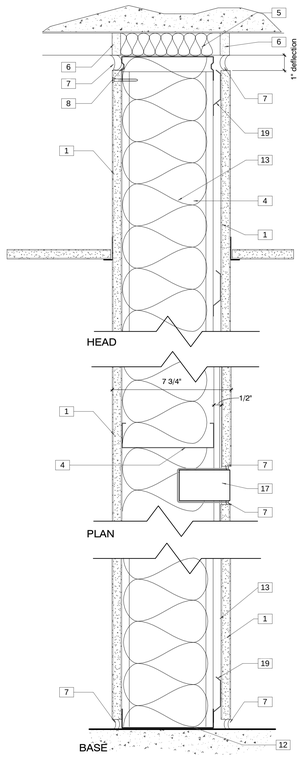
A.8 Same as A.6 but with 8" metal studs in lieu of 6" metal studs




P.3 **PARTIAL HEIGHT WALL**

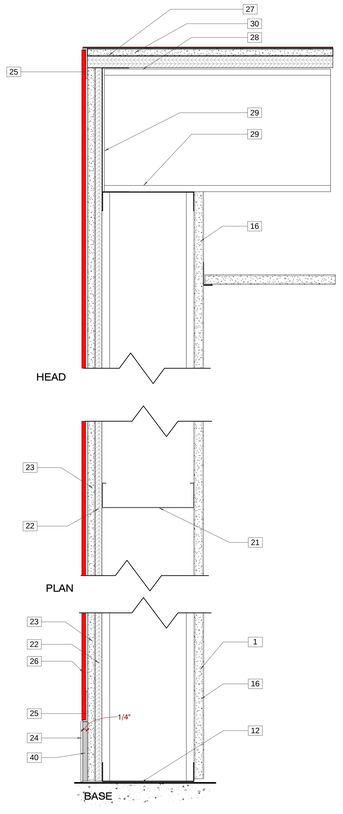



F.1a **STAIR FEATURE FURRING WALL**




RC.6 **METAL STUD RESILIENT**

STC 56 RAL-TL-84-141




G.1 ST.6 **CLUBHOUSE WALL**

Wall Types 1
3" = 1'-0"


JACOBY ARCHITECTS

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SHEET DATA

Drawn By: Bob
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PROJECT

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**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building · Salt Lake City, Utah 84114 · (801) 538-3018

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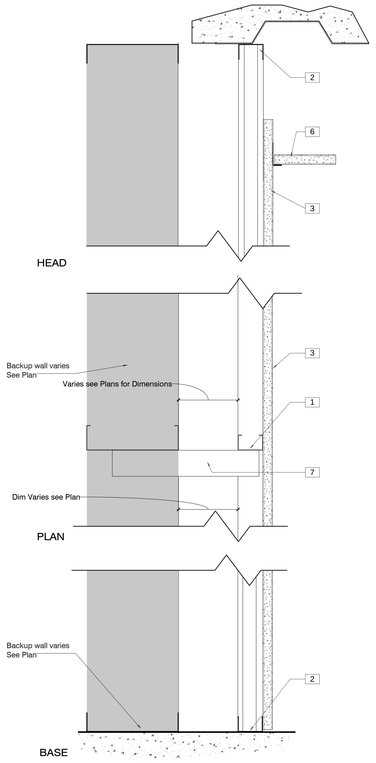
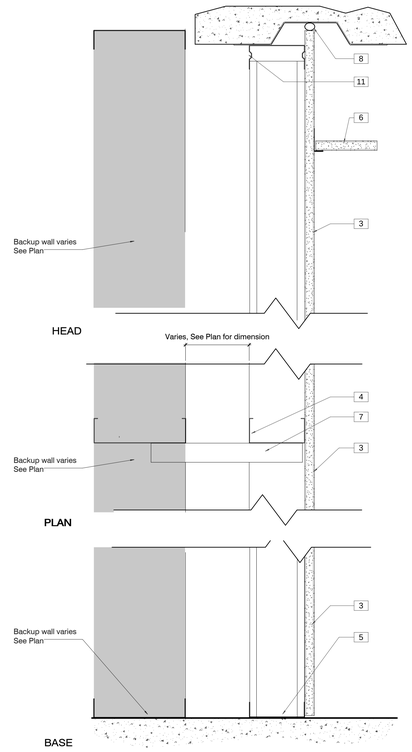
Construction Documents

Interior Partition Types

AE4-91




F.1 FURRED WALL

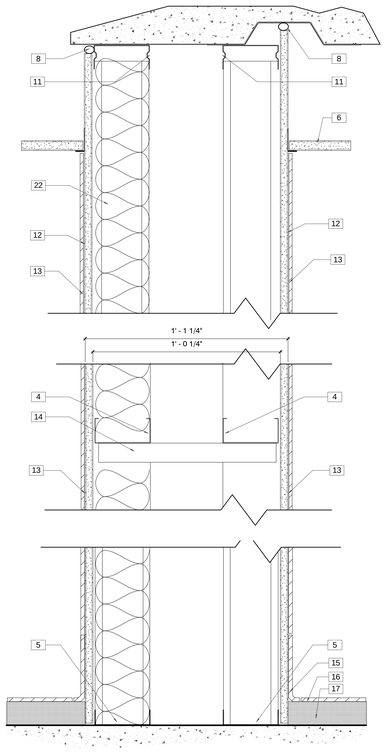



F.3 FURRED WALL

F.3s Same as F.3 but with 3" R-13 sound blanket insulation

F.6 Same as F.3 but with 6" metal studs

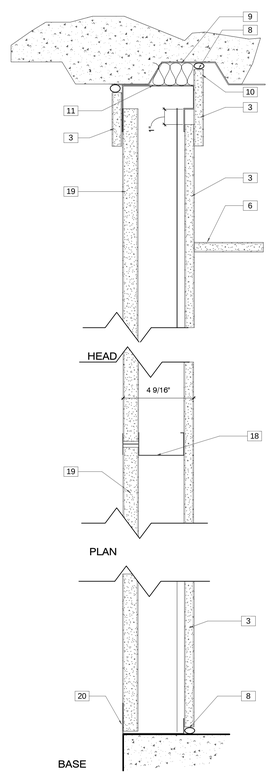
F.6s Same as F.6 but with 6" acoustic blanket insulation



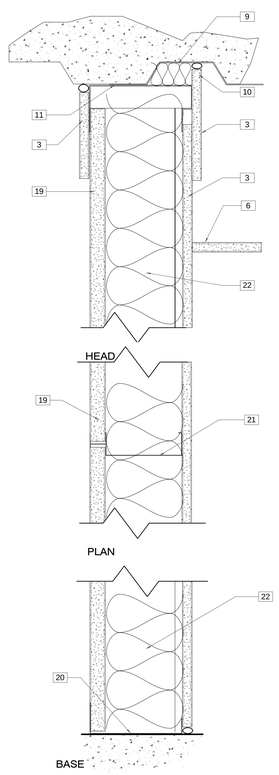

Fd.4 DOUBLE STUD CHASE WALL

| Keynote Legend | |
|---|---|
| 1 | 1 5/8" X 20 Gage Metal Stud @ 16" O.C. |
| 2 | 1 5/8" Metal Runner |
| 3 | 5/8" Gypsum Board |
| 4 | 3 5/8" Metal Studs @ 24" O.C. ( 22 Gage Min.) |
| 5 | 3 5/8" Metal Runner |
| 6 | See Ceiling Plan For Ceiling Type |
| 7 | Tie Interior Furring Studs To Exterior Wall Studs With 2 1/2" Studs @ 4' 0" O.C. Vertically |
| 8 | Js-4 Acoustical Sealant at Entire Perimeter and At All Penetrations. |
| 9 | 1 - 5/8" blanket insulation packed in each flute |
| 10 | Continuous Closure strip matched to metal deck |
| 11 | Deflection Head Track For 1" Of Vertical Deflection, Typical |
| 12 | 1/2" Glass Mat Backer Board |
| 13 | Glazed Wall Tile |
| 14 | 2-1/2" Steel Stud Cross Brace Or 12 " Wide Gypsum Board Brace @ 48" O.C. Maximum Vertically |
| 15 | Ceramic Cove Base To Match Wall Tile |
| 16 | Floor Tile |
| 17 | Mortar Setting Bed |
| 18 | 4" Ch. X 20 Ga. Stud @ 24" O.C. X |
| 19 | 1" Shaft Wall Liner |
| 20 | J Runner Track |
| 21 | 6" Ch X 20 Ga. Stud @ 24" O.C. |
| 22 | R-13 Unfaced Sound Blanket |
| 23 | 7/8" Hat Channel @ 16" O.C. Fasten To Substrate. Shim As Required To Establish A Straight And Plumb Finish. |
| 24 | 1/2" Retardant Treated Plywood Sheathing |
| 25 | 3 5/8" Metal Stud Framing @ 16" o.c. Minimum |
| 26 | 4" Straight Base. Color To Be Selected By Architect From Full Range Of Colors. |
| 27 | 1X4 Tongue And Groove Board Paneling |
| 28 | 3/4" Fire Retardant Treated Plywood Sheathing, |
| 29 | 1 Layer 5/8" Gypsum Board |
| 30 | Wood Trim |

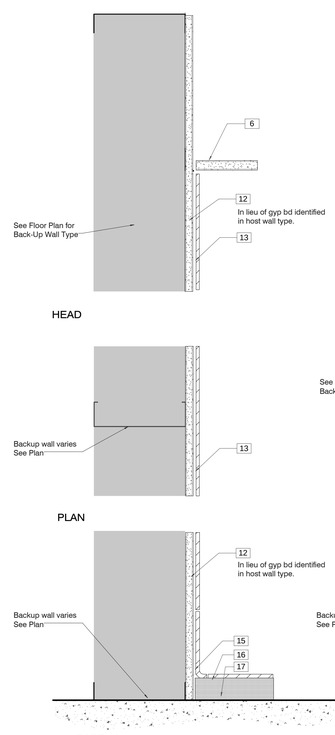
General Note:
See Plans for Location of Impact Resistant Gyp. Bd.



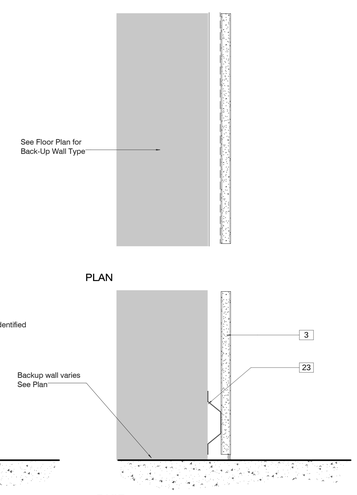

S.4 4" SHAFT WALL
FIRE RATING: 1HOUR
UL- U415




S.6 6" SHAFT WALL
FIRE RATING: 1HOUR
UL- U415

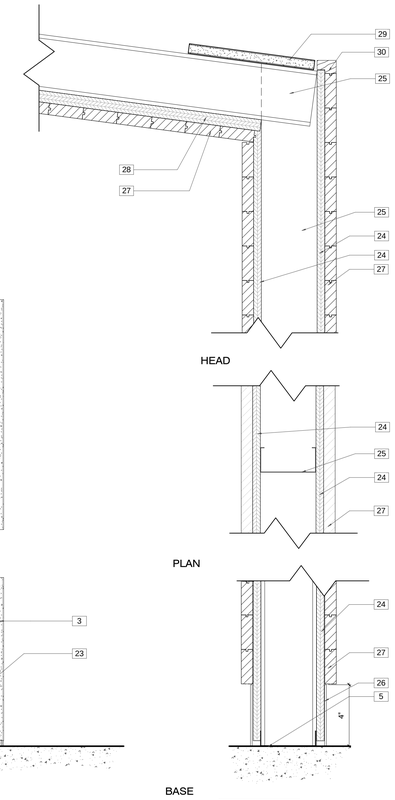



T.1 CERAMIC TILE FACE




F.05 HAT CHANNEL FURRING

F.0 Gyp. Bd. adhered directly to substrate




DW.1 RECEPTION PARTITION

Wall Types 2
3" = 1'-0"

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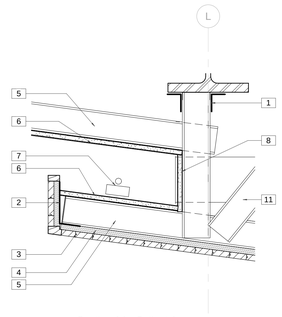
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

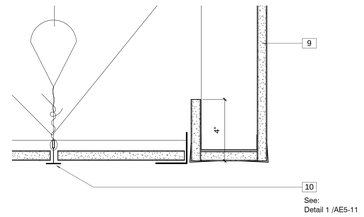
Interior Partition Types

AE4-92

| Keynote Legend | |
|---|---|
| 1 | Brake Metal Angle for Metal Stud Support |
| 2 | Break Metal Angle/Piece For Stud Framing Continuity |
| 3 | 1X4 Tongue And Groove Board Paneling |
| 4 | 3/4" Fire Retardant Treated Plywood Sheathing. |
| 5 | 3 5/8" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 6 | 1 Layer 5/8" Gypsum Board |
| 7 | Continuous Cove Light, See Electrical |
| 8 | Mechanical Louver, Refer To Mechanical Drawings |
| 9 | 5/8" Gypsum Board On Metal Stud Framing |
| 10 | Suspended ACT Ceiling-See Ceiling Plan For Tile Size |
| 11 | Metal Stud Bracing |




4 Section 14 - Callout 1
1 1/2" = 1'-0"




3 Metal Stud Bulkhead / ACT Transition Detail
3" = 1'-0"

## GENERAL NOTES

1. SUSPENDED CEILING INSTALLATION SHALL COMPLY WITH REQUIREMENTS OF I.B.C, ASTM C-635 & ASTM C-636.

2. CEILING AREAS OF 144 SQ. FT. OR LESS SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE SHALL NOT REQUIRE THE DIAGONAL BRACING WIRES.

3. EACH VERTICAL WIRE SHALL BE ATTACHED EACH END WITH MIN. 5 TURNS.

4. CEILING GRID SHALL BE INSTALLED LEVEL TO WITHIN 1/8" IN 12 FEET.

5. LOCAL KINKS OR BENDS SHALL NOT BE MADE IN HANGER WIRES AS A MEANS OF LEVELING MAIN RUNNERS.

6. ALL WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT.

7. ALL CEILING MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO SUSPENDED CEILING GRID, IN ADDITION 12 GA. HANGER WIRES SHALL BE ATTACHED TO THE GRID WITHIN 3" OF EACH CORNER OF THE FIXTURE. TWO ADDITIONAL WIRES SHALL BE CONNECTED TO THE LIGHT HOUSING AND TO THE STRUCTURE ABOVE.

8. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFEARING MATERIAL OR EQUIPMENT, NOR SHALL THEY BE CLOSER THAN 6" FROM ANY UN-BRACED HORIZONTAL PIPING OR DUCTWORK. A TRAPEZE OR SIMILAR DEVICE SHALL BE USED WHERE OBSTRUCTIONS OCCUR.

9. LIGHT FIXTURES TO HAVE FOUR (4) WIRES FOR BRACING.

10. GRID MUST BE ATTACHED TO TWO ADJACENT WALLS - OPPOSITE WALLS MUST HAVE MIN CLEARANCE PER DETAILS.

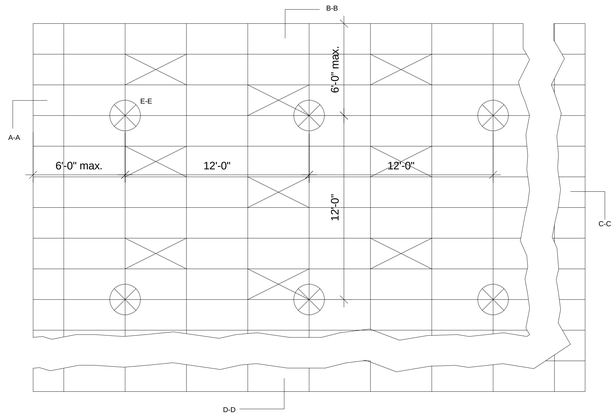
11. ENDS OF MAIN BEAMS AND CROSS TEES MUST BE TIED TOGETHER TO PREVENT THEIR SPREADING.

12. PROVIDE PERIMETER SUPPORT WIRES.

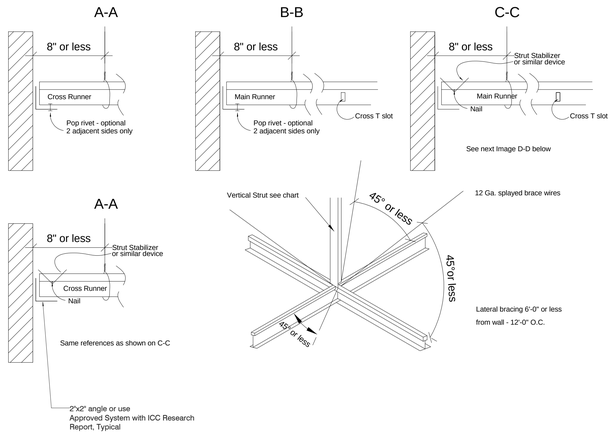
13. CEILINGS OVER 1,000 SF MUST HAVE HORIZONTAL RESTRAINT WIRE OR RIGID BRACING. CEILINGS NOT REQUIRING RIGID BRACING MUST HAVE 2" OVERSIZE TRIM RINGS FOR SPRINKLERS AND OTHER PENETRATIONS.

Ceiling Plan Notes
1 1/2" = 1'-0"

| Basic Connections, Perimeter, and Lateral Splay Bracing | IBC Category E |
|---|---|
| Minimum intersection strength limits @ MT/CT (4) | 180 lbs |
| Vertical hanger wire 12-gauge @ 4' o.c. | Required |
| Connection device from vertical wire to the structure above must sustain min 100 lbs | Required |
| Main tee classifications (5) | Heavy-duty |
| 1 in 6 max plumb of vertical hanger wires | Required |
| Perimeter vertical hanger wires not more than 8" from wall | Required |
| Grid end/wall clearance | Min 3/4" |
| Perimeter closure (molding) width | Min 2" |
| Grid connection to perimeter attached on two adjacent walls | Required |
| Perimeter tee ends tied together at perimeters | Required |
| Horizontal restraint (splay wires or rigid bracing) within 2" of intersection and splayed 90° apart at 45° angles | Required (7,8) |
| Compression posts (struts) 12' o.c. in both directions, starting 6' from walls | Required (7,8) |
| Splay bracing connection strength 200 lbs or the design load, whichever is greater | Required |
| Partition attachment | Bracing independent of ceiling splay bracing |
| Seismic separation joint | Required for areas > 2,500 sq.ft. (or full height partition) (8) |
| Rigid bracing for ceiling plane elevation changes | Required |
| | |
| **Light Fixture Attachment** | |
| Light fixture (all types) mechanically attached to grid per | Required |
| NEC 410-16 (two per fixture unless independently supported) | |
| -Surface-mounted fixtures attached to grid | Not required |
| -Pendant-hung fuxtures directly supported from structure with 9-gauge wire (or approved alternative) | Required |
| -Rigid lay-in or can light fixtures | |
| < 10 lbs - one wire to structure (may be slack) | Required |
| 10 to 56 lbs - two wires from housing to structure (may be slack) | Required |
| > 56 lbs - supported directly to structure by approved hangers | Required |
| | |
| **Service Applications** | |
| Air terminals | |
| < 20 lbs - positively attached to grid | Required |
| 20 to 56 lbs - positively attached to grid and two 12-gauge wires to structure (may be slack) | Required |
| > 56 lbs - directly supported to structure | Required |
| Sprinkler heads and other penetration clearance | Min 2" dia. opening or swing joint |
| Cable trays and electrical conduit independently supported and braced | Required |
| | |
| | |
| | |
| (4) All USG Donn Brand Ceiling Suspension Systems meet these requirements. | |
| (5) Per ASTM C635. | |
| (7) Required for ceilings larger than 1,000 square feet. | |
| (8) Where substantiating design calculations are not provided. | |




Bracing Location




1 Ceiling Details
1/8" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

| | |
|---|---|
| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrziewski Designs - 801.582.9747 |

STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT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SHEET DATA

Drawn By: Eric
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building Salt Lake City, Utah 84114 - 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

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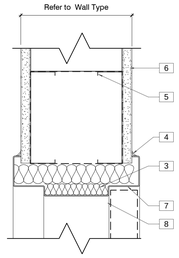
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

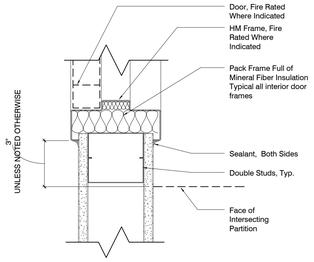
Construction Documents

Ceiling Details

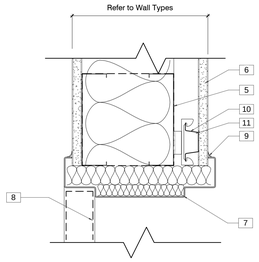
AE5-11



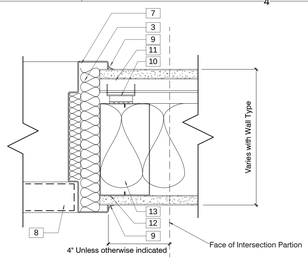

E1 Door Head
3" = 1'-0"



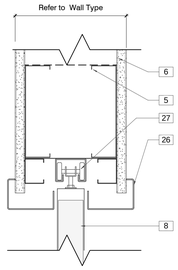

E2 Typical Door Jamb Detail
3" = 1'-0"



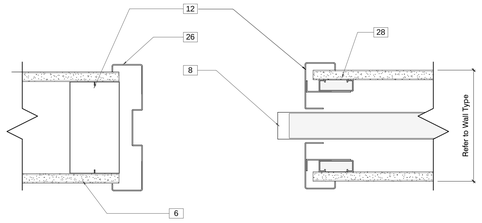

E3 Door Head Acoustical
3" = 1'-0"



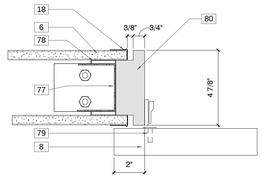

E4 Door Jamb (Acoustical)
3" = 1'-0"



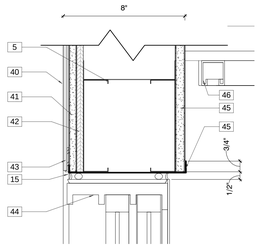

D1 Door Head
3" = 1'-0"



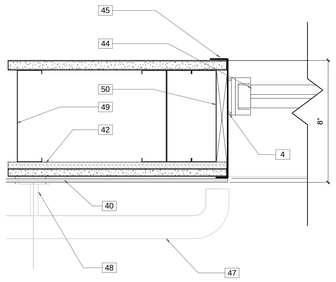

D2 Pocket Door Jambs
3" = 1'-0"



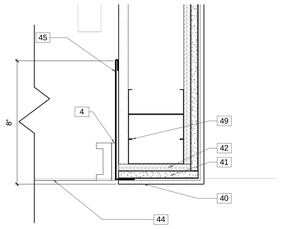

D4 Sliding Barn Door Jamb
3" = 1'-0"



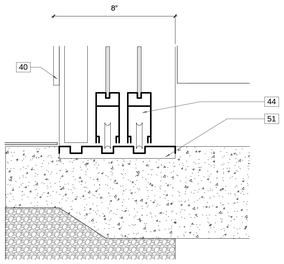

C1 Mall Front Door Head
3" = 1'-0"



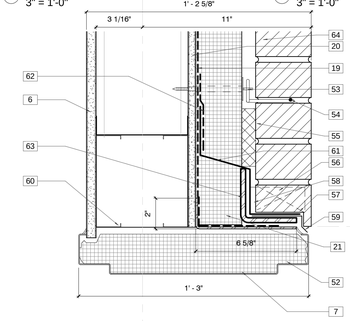

C2 Mall Front Door Jamb
3" = 1'-0"



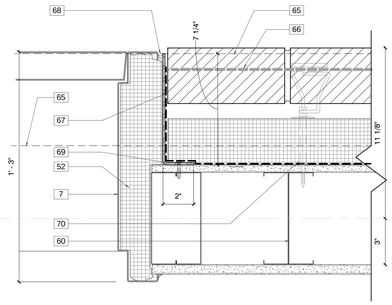

C3 Mall Front Door Jamb
3" = 1'-0"



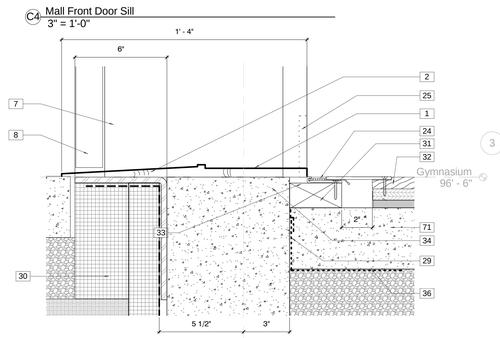

C4 Mall Front Door Sill
3" = 1'-0"



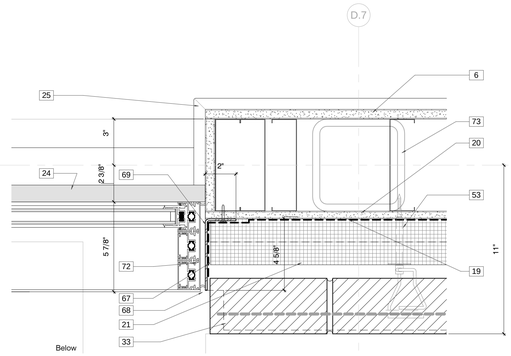

B1 Exterior Hollow Metal Door Head
3" = 1'-0"



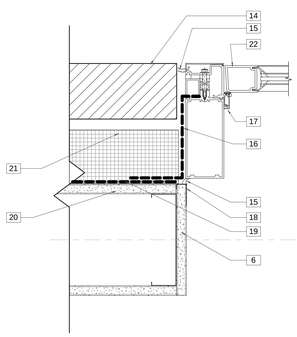

B2 Exterior Hollow Metal Door Jamb
3" = 1'-0"



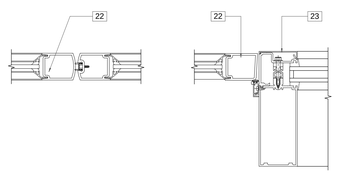

B3 Hollow Metal Door Threshold
3" = 1'-0"

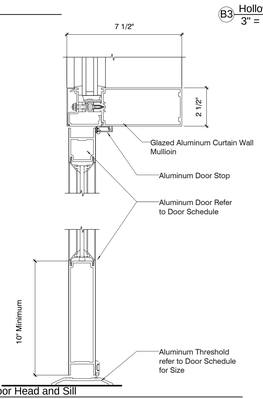



B4 Sliding Glass Door Jamb
3" = 1'-0"

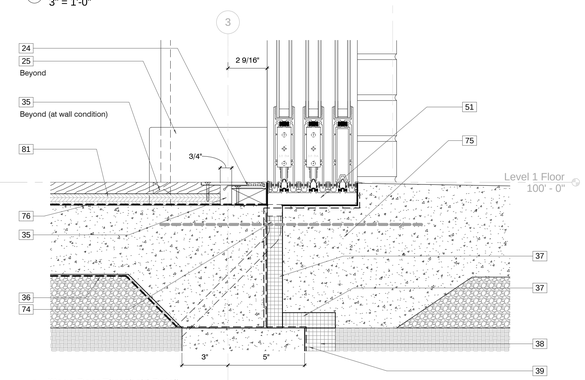



A1 Curtainwall Jamb Details
3" = 1'-0"




A3 Door Head and Sill
3" = 1'-0"




A4 Stage Door Threshold Detail
3" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Aluminum Threshold |
| 2 | Seal Threshold to Air Barrier/Waterproofing |
| 3 | Pack Door Frame with Mineral Fiber Insulation |
| 4 | Sealant Both Sides Of Frame |
| 5 | Stud Track For Single Doors: Box Header For Wider Frames |
| 6 | 5/8" Gypsum Board |
| 7 | Hollow Metal Door Frame refer to schedule |
| 8 | Door Refer To Schedule |
| 9 | Js-4 Acoustical Sealant at Entire Perimeter and At All Penetrations. |
| 10 | RSIC-I Resilient Clip @ 48" O.C Horizontally And 24" O.C. Vertically - Or 1/2" RC Channel @ 24" O.C. Refer To Floor Plans For Partition Type. |
| 11 | Provide 7/8" Hat Channel @ 24" O.C. If Risc-1 Clip Is Used. See Floor Plans For Partition Type. |
| 12 | Double Studs At Door Jambs |
| 13 | 6" Unfaced Sound Blanket |
| 14 | 3-5/8" brick veneer. |
| 15 | Sealant |
| 16 | EPDM Boot Sealed To Air Barrier and Glazed Into Curtain Wall System |
| 17 | Door Stop |
| 18 | Metal Edge Trim |
| 19 | Vapor Impermeable Fluid Applied Air Barrier |
| 20 | 1/2" Glass Mat Sheathing |
| 21 | 2 Layers 1-1/2" R-5 Per Inch Cavity Insulation With Overlapping, Taped Joints. Total 3" Thickness and R15 |
| 22 | Aluminum Door Refer To Door Schedule |
| 23 | Aluminum Curtain Wall Jamb |
| 24 | Wood Flooring Expansion Joint Cover |
| 25 | 4" Wood Base |
| 26 | Split Hollow Metal Frame for Sliding Door Pocket and Track |
| 27 | Pocket Door Track And Trolley |
| 28 | Pocket Door Wall Supports |
| 29 | Seal Vapor Retarder to Wall |
| 30 | 3" Rigid Insulation, Minimum R-5 per Inch. |
| 31 | Treated Wood Nailer |
| 32 | Wood Athletic Flooring |
| 33 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 34 | Reinforced Concrete Wall refer to Structural |
| 35 | Air Gap For Expansion And Contraction |
| 36 | Vapor Retarder |
| 37 | 1" Rigid Insulation |
| 38 | 2" Rigid R10 Foundation Insulation |
| 39 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 40 | 1/4" Spandrel Glass Adhered To Substrate. Polish All Exposed Edges |
| 41 | 1/2" Glass Mat Backer Board |
| 42 | 7/16" Plywood Sheathing |
| 43 | Provide 2" X 5/16" X 1/8" Thick Continuous Aluminum Angle Anchored to Wall Studs to support Glass. |

## Keynote Legend

| | |
|---|---|
| 44 | Sliding Mall Front Door, Refer To Door Schedule. |
| 45 | Aluminum Trim To Match Door Frame |
| 46 | 1-5/8" Unistrut Channel Suspend From Cold Formed Metal Joists With 1/2" All Thread @ 24" O.C. Max. Paint To Match Ceiling. See Structural. |
| 47 | Stainless Steel Handrails with 1-1/2" dia. Top Rail & 1" Dia. Children's Rail. |
| 48 | Stainless Steel Railing Bracket With 1/2" Thick X 2" Dia. Rosette. Anchor to Stud Wall. Cope Glass Wall Cladding For Installation Of Rosette. |
| 49 | 20 Ga. Structural Studs @ 16" O.C. Refer To Structural Drawings For Details. |
| 50 | Wood Blocking As Required |
| 51 | Provide Recess in Slab for Sliding Door Track |
| 52 | Fill Entire Frame with Closed Cell Spray Foam Insulation |
| 53 | Masonry Anchor @ 16" O.C. Maximum |
| 54 | Pencil rod reinforcing |
| 55 | Cavity Drainage Mat |
| 56 | Weep @24" O.C. |
| 57 | Notched Brick to Accommodate Relieving Angle |
| 58 | Flashing With End Dam, Extend To Far Side of Adjacent Brick, Seal with Mastic. |
| 59 | Stainless Steel drip edge |
| 60 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 61 | Flexible Flashing |
| 62 | Electrometric Transition Sheet Lapped Over Flashing And Sealed To Fluid Applied Air Barrier. |
| 63 | Galvanized Lintel, Refer To Structural Drawings for Size |
| 64 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 65 | Line Of Galvanized Brick Ledger at Foundation. |
| 66 | |
| 67 | Wrap Air Barrier Over Sub Jamb/Head/Sill. Transition Air Barrier As Required By Air Barrier Manufacturer |
| 68 | Seal Door Frame to Galvanized Sub Frame |
| 69 | Galvanized 1/8" Thick Steel Subframe with Continuous Welded Corners. Attach To Stud Framing With # 10 Screws @ 8" O.C. |
| 70 | Seal Air Barrier at Each Masonry Wall Tie |
| 71 | 4" Concrete Slab On Grade with Thickened Edge at Perimeter |
| 72 | Sliding Aluminum Glass Door Frame |
| 73 | Steel Column refer to Structural |
| 74 | Sill Drain. Connect To Building Drain System. Refer To Plumbing Drawings |
| 75 | Dowel in Exterior Concrete Slab |
| 76 | 6 Mil Polyethelene Sheet |
| 77 | Partial Height Wall Base Connector Bolt To Floor. Size And Spacing As Required To Support Wall. |
| 78 | 3 5/8" Metal Stud Framing @ 16" o.c. Minimum |
| 79 | Door Latch Refer To Hardware Schedule |
| 80 | Hardwood Trim, Paint to Match Wall |
| 81 | Simulated Wood Flooring, Refer To Finish Schedule. |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

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STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT


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SHEET DATA

Drawn By: Bob
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building | Salt Lake City, Utah 84114 | 801.538.3018

DFCM # 14190230
DFCM APPROVAL STAMP:

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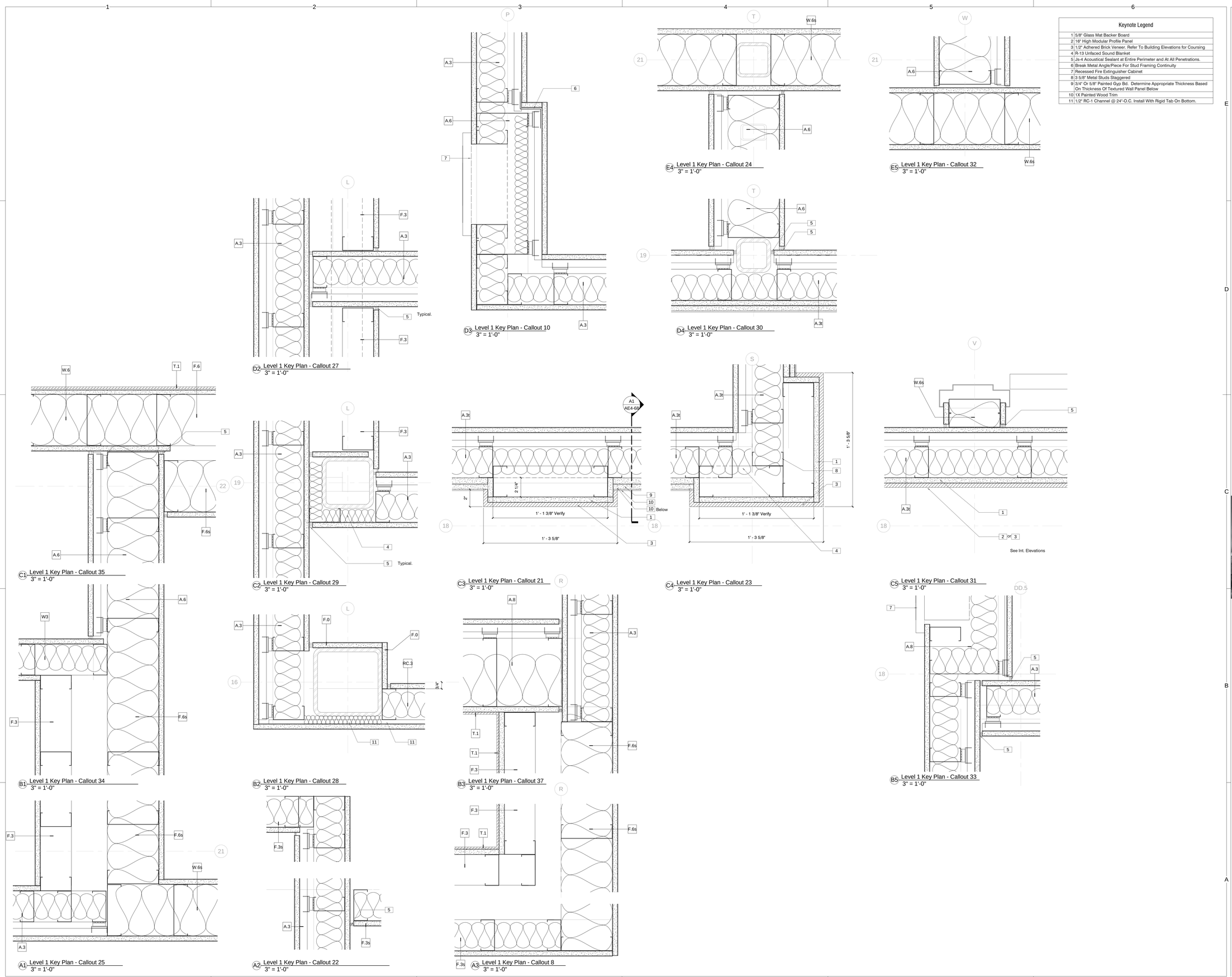
Construction Documents

Door Details

AE5-21




## Keynote Legend

| | |
|---|---|
| 1 | 5/8" Glass Mat Backer Board |
| 2 | 16" High Modular Profile Panel |
| 3 | 1/2" Adhered Brick Veneer. Refer To Building Elevations for Coursing |
| 4 | R-13 Unfaced Sound Blanket |
| 5 | Js-4 Acoustical Sealant at Entire Perimeter and At All Penetrations. |
| 6 | Break Metal Angle/Piece For Stud Framing Continuity |
| 7 | Recessed Fire Extinguisher Cabinet |
| 8 | 3 5/8" Metal Studs Staggered |
| 9 | 3/4" Or 5/8" Painted Gyp Bd. Determine Appropriate Thickness Based On Thickness Of Textured Wall Panel Below |
| 10 | 1X Painted Wood Trim |
| 11 | 1/2" RC-1 Channel @ 24"-O.C. Install With Rigid Tab On Bottom. |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

| | |
|---|---|
| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrzewski Designs - 801.582.9747 |

### STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT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### SHEET DATA

Drawn By: Eric

Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230

DFCM APPROVAL STAMP:

### ADDENDA

| Revision | Date |
|---|---|

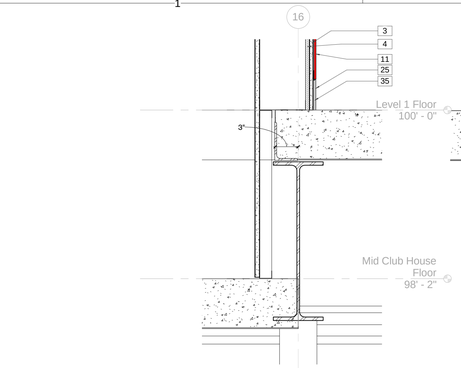
### ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

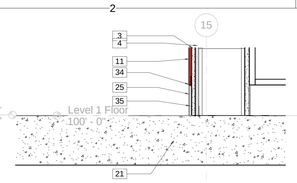
Construction Documents

# Interior Partition Details

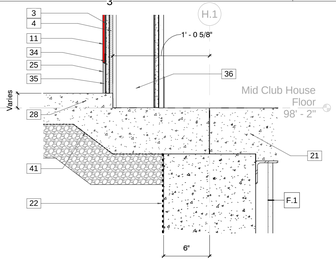
# AE5-31



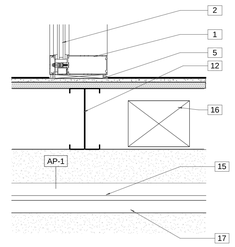

D1 Wall Transition
1 1/2" = 1'-0"



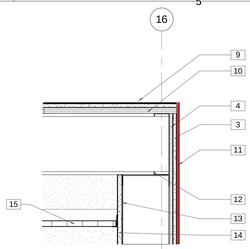

E2 Clubhouse base detail
1 1/2" = 1'-0"



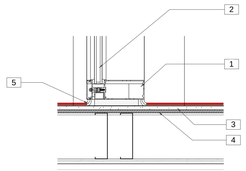

E3 Wall @ Ramp Detail
1 1/2" = 1'-0"



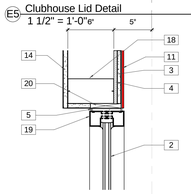

E4 Section 69 - Callout 2
1 1/2" = 1'-0"



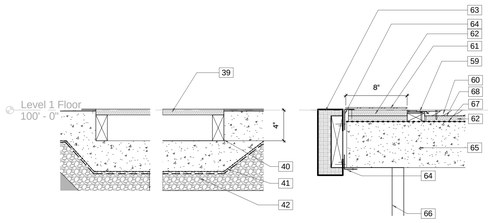

E5 Clubhouse Lid Detail
1 1/2" = 1'-0"




D4 Interior Curtainwall Jamb
1 1/2" = 1'-0"

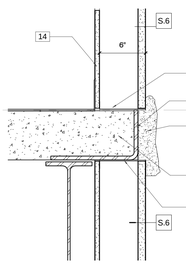



D5 Storefront Jamb Detail
1 1/2" = 1'-0"

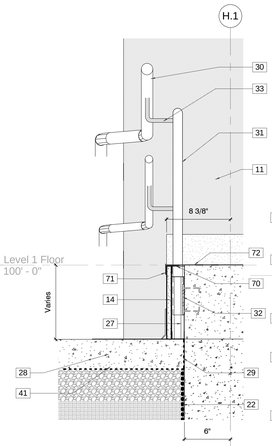



C1 Resonance Floor Detail
1 1/2" = 1'-0"

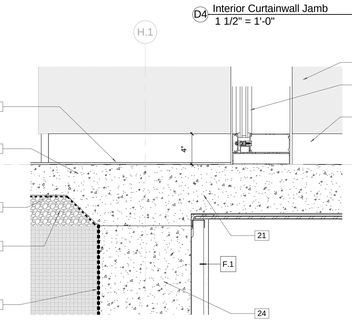
C2 Interior Stage Leading Edge
1 1/2" = 1'-0"



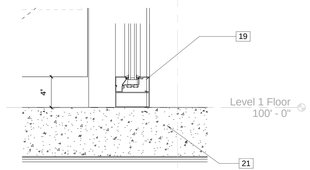

C3 Shaft Wall at Floor Detail
1 1/2" = 1'-0"



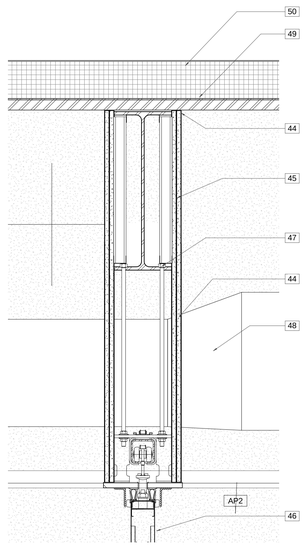

C4 Edge of Ramp
1 1/2" = 1'-0"



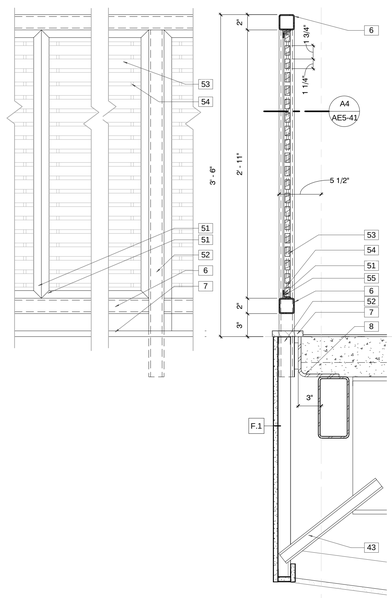

C5 Detail 9
1 1/2" = 1'-0"



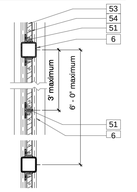

C6 Detail 14
1 1/2" = 1'-0"



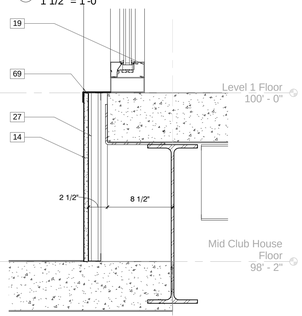

B1 Folding Partition Head
1 1/2" = 1'-0"



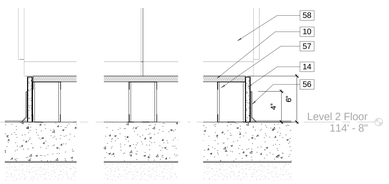

B3 L2 Guardrail Detail
1 1/2" = 1'-0"




A4 L2 Guardrail Plan
1 1/2" = 1'-0"




B6 Club House Sill Detail
1 1/2" = 1'-0"




A5 L2 Locker Support Base
1 1/2" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Interior Glazed Aluminum Curtain Wall System |
| 2 | Glazing Refer To Frame Elevations for Type |
| 3 | 1/2" Glass Mat Sheathing |
| 4 | 7/16" Plywood Sheathing |
| 5 | Sealant Both Sides Of Frame |
| 6 | Fully Welded Frame Fabricated From HSS 2"X2x3/16" Stainless Steel. Grind All Welds Smooth |
| 7 | Hardwood Trim. Scribe around Post Penetrations |
| 8 | Bent Steel Plate Refer To Structural Drawings |
| 9 | Plastic Laminate Over Glass Mat Sheathing. |
| 10 | 3/4" Fire Retardant Treated Plywood Sheathing. |
| 11 | 1/4" Spandrel Glass Adhered To Substrate. Polish All Exposed Edges |
| 12 | 8" Cold Formed Joists, refer to Structural Drawings. |
| 13 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 14 | 5/8" Gypsum Board |
| 15 | Suspended ACT Ceiling-See Ceiling Plan For Tile Size |
| 16 | Return Air Grille, refer to Mechanical Drawings. |
| 17 | 1-5/8" Unistrut Channel Suspend From Cold Formed Metal Joists With 1/2" All Thread @ 24" O.C. Max. Paint To Match Ceiling. See Structural. |
| 18 | Double Studs At Jamb |
| 19 | Aluminum Framed Storefront System |
| 20 | Shim/Blocking As Required |
| 21 | Suspended Composite Concrete Slab, Refer To Structural Drawings |
| 22 | Cold Fluid Applied Waterproofing Membrane |
| 23 | 4" Concrete Slab On Grade with Thickened Edge at Perimeter |
| 24 | Reinforced Concrete Wall refer to Structural |
| 25 | 4" Straight Base. Color To Be Selected By Architect From Full Range Of Colors. |
| 26 | Resilant Flooring |
| 27 | 1 5/8" Metal Stud Framing |
| 28 | 4" Thick Cast In Place Concrete Ramp |
| 29 | Seal Vapor Retarder to Wall |
| 30 | Stainless Steel Handrails with 1-1/2" dia. Top Rail & 1" Dia. Children's Rail. |
| 31 | 3/4" x 1-1/4" Stainless Steel Support Post @ 4'-0" o.c. max. Anchor to concrete wall below floor level. |
| 32 | Embed 1/4" X 8" X 8" Steel Plate into Concrete for Connection of Rail Supports |
| 33 | Stainless Steel Railing Brackets. Weld To Support Posts. |
| 34 | Provide 2" X 5/16" X 1/8" Thick Continuous Aluminum Angle Anchored to Wall Studs to support Glass. |
| 35 | Provide Continuous 1/4" Plywood Backing Strip for Resilient Base. |
| 36 | 6" Metal Studs 22 Gauge (.0299 In) Minimum @ 24" O.C. |
| 37 | Spray Applied Fireproofing For 1 Hour Fire Protection |
| 38 | J Runner Track |
| 39 | 3/4" Baltic Birch Plywood Floor. Provide Clear Finish |
| 40 | Treated Wood Nailer |
| 41 | Vapor Retarder |
| 42 | 4" Gravel Layer |
| 43 | Metal Stud Bracing |
| 44 | Js-4 Acoustical Sealant at Entire Perimeter and At All Penetrations. |
| 45 | 2 Layers 5/8" Gypsum Board |
| 46 | Single Panel Operable Partition |
| 47 | Pre Drill Holes In Beam Flanges per Folding Wall Manufactures Requirements |
| 48 | Ductwork, Refer To Mechanical |
| 49 | Metal Roof Deck Refer to Structural |
| 50 | KEE Membrane Over Base Layer of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 51 | Frame Fabricated From Stainless Steel 1X1x1/8" Angle. Weld Frame to 2"X2" Frame as Indicated |
| 52 | HSS 2"X2x3/16" Stainless Steel Post Welded To Deck Edge |
| 53 | Wood Grille Infill Panels Fabricated With 11/16" X 1 1/4" Flat Solid Wood Slats. |
| 54 | 5/16" Dowel |
| 55 | Stainless Steel Screw At 6" O.C. Countersink Head In Frame. |
| 56 | Resilient Base As Scheduled |
| 57 | 3 5/8" Metal Studs @ 24" O.C. ( 22 Gage Min.) |
| 58 | Furniture Provided By Owner |
| 59 | Wood Flooring Expansion Joint Cover |
| 60 | Wood Athletic Flooring |
| 61 | Flexible Walkway |
| 62 | 3/4" Treated Plywood |
| 63 | Heavy Duty Vinyl Wrapped Over 2" High Density Padding Over Continuous 2 X Blocking Curved Around Slab Edge |
| 64 | Brake Metal Angle for Metal Stud Support |
| 65 | 6" Thick Concrete Slab, See Structural |
| 66 | Wood Veneer Faced Architectural Cabinets |
| 67 | 6 Mil Polyethelene Sheet |
| 68 | 15 Lb. Building Felt |
| 69 | Brake Metal Closure Panel by Storefront Contractor to Match Storefront System |
| 70 | I 5/8" Metal Runner |
| 71 | SS Nosing Strip (BOD Schluter SS 60 EB 39) |
| 72 | Resilient Tile Flooring, Refer To Finish Schedule/Plans |


JACOBY ARCHITECTS

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| Food Service: - | Jedrzewski Designs - 801.582.9747 |

STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT


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SHEET DATA

Drawn By: Bob
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

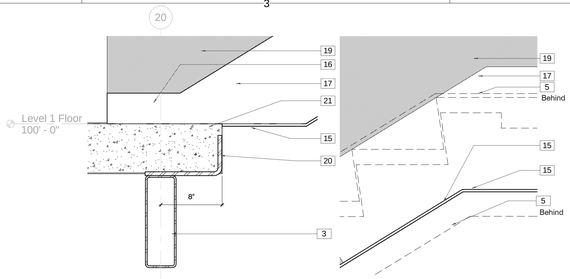
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Interior Details

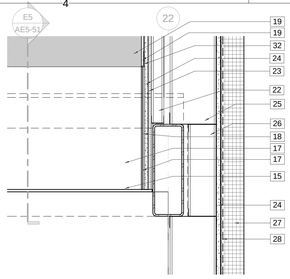
AE5-41

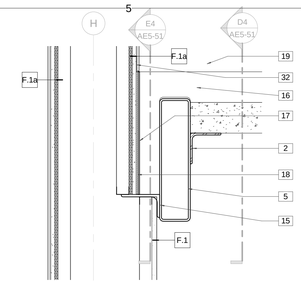



E3 Stair and Tower Detail
1 1/2" = 1'-0"

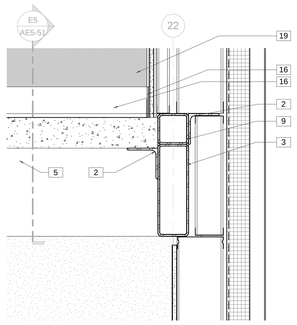



E4 Stair and Tower Detail
1 1/2" = 1'-0"

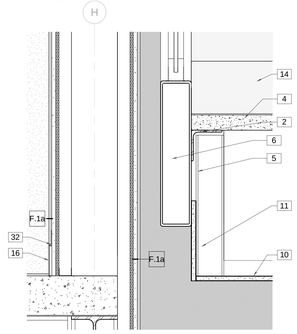


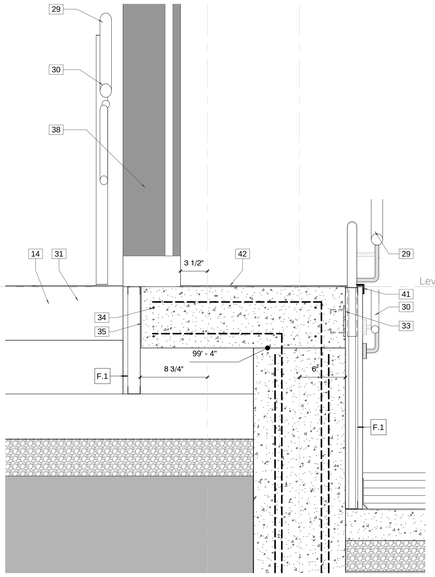

E5 Stair and Tower Detail
1 1/2" = 1'-0"



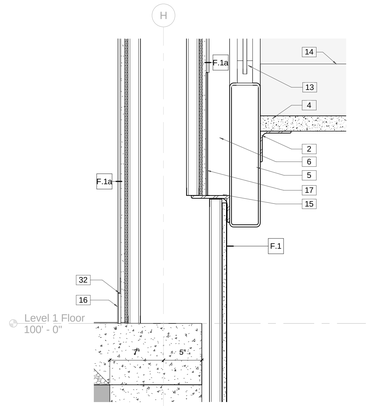

D4 Stair and Tower Detail
1 1/2" = 1'-0"



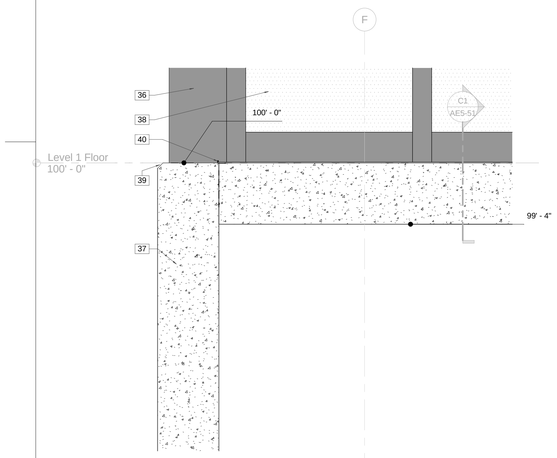

D5 Stair and Tower Detail
1 1/2" = 1'-0"



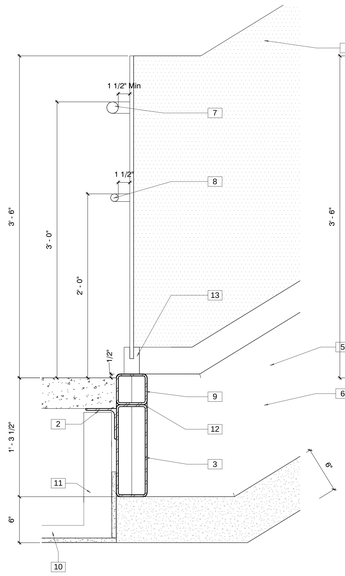

C1 Gross Motor Ramp and Stair Detail
1 1/2" = 1'-0"



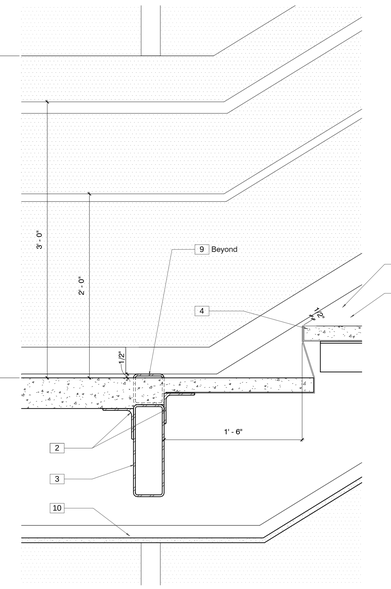

C5 Stair and Tower Detail
1 1/2" = 1'-0"



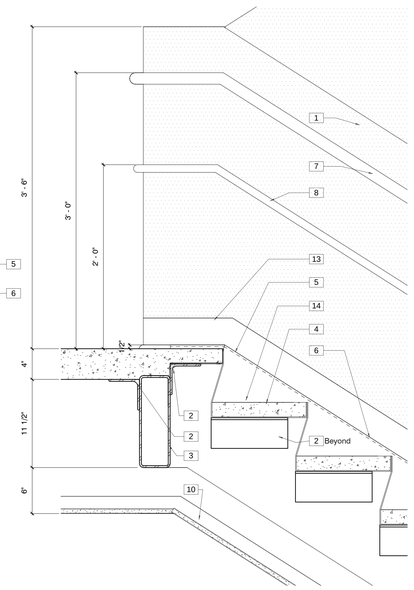

A1 Ledge Detail
1 1/2" = 1'-0"




A3 Landing Detail at Rail
1 1/2" = 1'-0"




A4 Landing Detail at Tread
1 1/2" = 1'-0"




A5 Landing Detail at Tread
1 1/2" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Cantilevered, Laminated, Tempered, Frosted Glass Assembly |
| 2 | L 4" X 4" x 1/4" |
| 3 | HSS 12" x 4" x 1/4" |
| 4 | Metal Stairs with Concrete Filled Pans |
| 5 | HSS 16" x 4" x 1/4" |
| 6 | Paint Exposed Steel Member, Typical |
| 7 | 1-1/2" Diameter Stainless Steel Handrail Mounted To Glass Baluster |
| 8 | 1" Diameter Stainless Steel Handrail Mounted to Glass Baluster |
| 9 | HSS 4" x 4" x 1/4" |
| 10 | Suspended 5/8" Gypsum Board Ceiling |
| 11 | 5/8" Gypsum Board On Metal Stud Framing |
| 12 | Bondo Gaps and Grind Smooth on Exposed Side of Assembly, TYP |
| 13 | Cast Aluminum Support Shoe With 1/2" Plate Welded To Top Of Stringer As Required By Decorative Metal Railing Manufacturer For Glass Assembly. Enclose With Stainless Steel Cladding. |
| 14 | Rubber Tread And Riser |
| 15 | L 5X3x1/4X Continuous |
| 16 | 4" Straight Base. Color To Be Selected By Architect From Full Range Of Colors. |
| 17 | Rubber Stringer - Profile As Indicated. Color To Be Selected By Architect From Full Range Of Colors |
| 18 | 1/4" Treated Plywood |
| 19 | 1/4" Spandrel Glass Adhered To Substrate. Polish All Exposed Edges |
| 20 | Bent Steel Plate Refer To Structural Drawings |
| 21 | Simulated Wood Flooring, Refer To Finish Schedule. |
| 22 | 1 5/8" Metal Stud Framing |
| 23 | 7/16" Plywood Sheathing |
| 24 | 1/2" Glass Mat Sheathing |
| 25 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 26 | 3 5/8" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 27 | 2 Layers 1-1/2" R-5 Per Inch Cavity Insulation With Overlapping, Taped Joints. Total 3" Thickness and R15 |
| 28 | Vapor Impermeable Fluid Applied Air Barrier |
| 29 | 1 1/2" Stainless Steel Tube Railing |
| 30 | 1" Stainless Steel Tube Railing |
| 31 | Concrete Stair on Slab |
| 32 | Provide 2" X 5/16" X 1 /8" Thick Continuous Aluminum Angle Anchored to Wall Studs to support Glass. |
| 33 | Embed 1/4" X 8" X 8" Steel Plate into Concrete for Connection of Rail Supports |
| 34 | #4 Bars Cont. Top and Bottom of Slab, See Structural |
| 35 | 8" Cantilevered Slab, See Structural |
| 36 | Pre-Finished .461" Aluminum Brake Shape to Match Aluminum Curtain Wall System |
| 37 | Architectural Concrete with Chamfered Edges, And Grout Cleaned Finish. |
| 38 | Interior Glazed Aluminum Curtain Wall System |
| 39 | 1" Chamfer |
| 40 | SS Nosing Strip (BOD Schluter SS E45/V4A) |
| 41 | SS Nosing Strip (BOD Schluter SS 60 EB 39) |
| 42 | Resilient Tile Flooring, Refer To Finish Schedule/Plans |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SHEET DATA

Drawn By: Kraig

Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building, Salt Lake City, Utah 84114 - 538-3018

DFCM # 14190230

DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

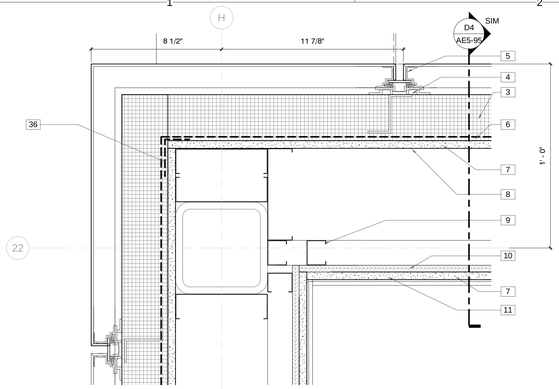
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

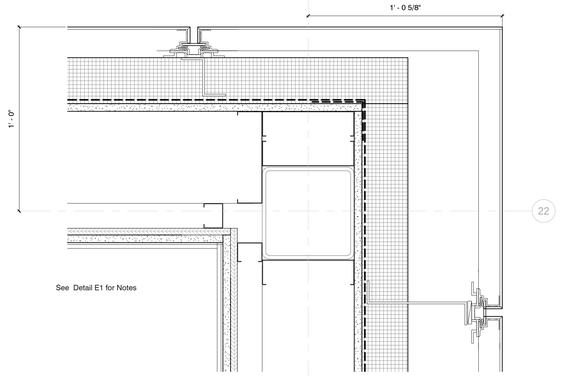
Construction Documents

Stair Details

AE5-51




E1 Penthouse - Stair Tower Corner Detail
3" = 1'-0"




E3 Penthouse - Stair Tower Corner Detail
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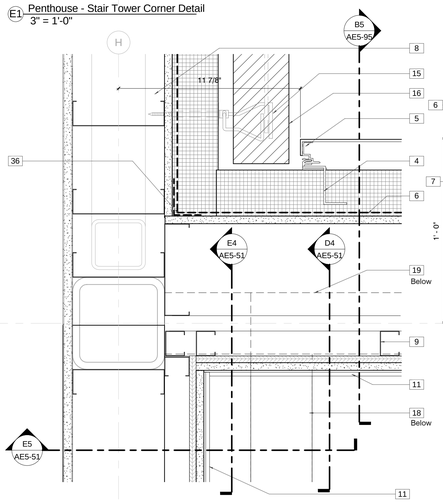
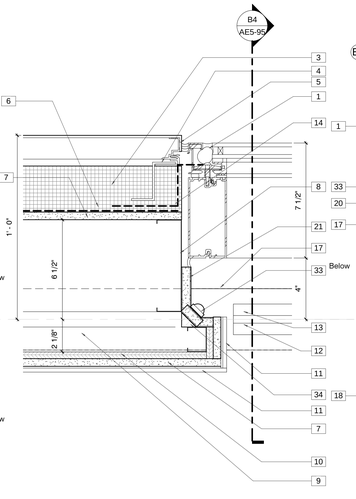
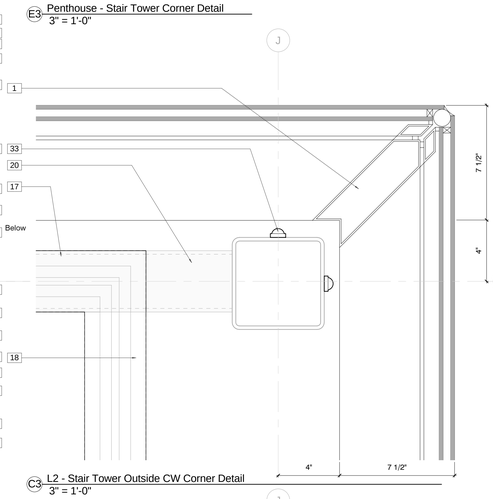


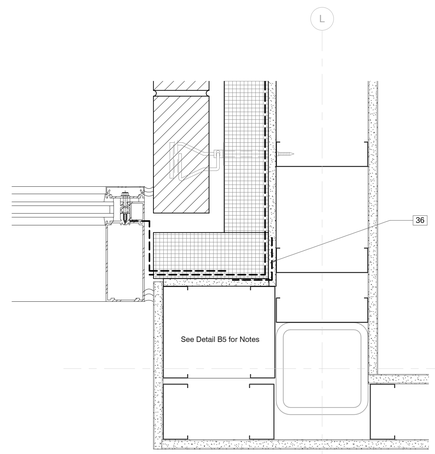

C1 L2 - Stair Tower Junction with Brick Veneer
3" = 1'-0"



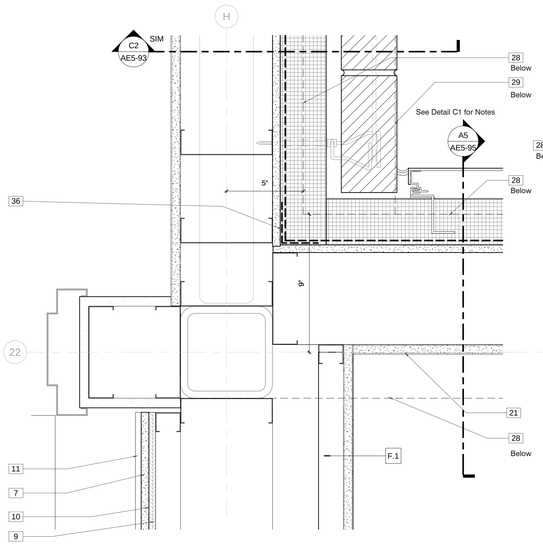

C2 L2 - Stair Tower CW Jamb Detail
3" = 1'-0"



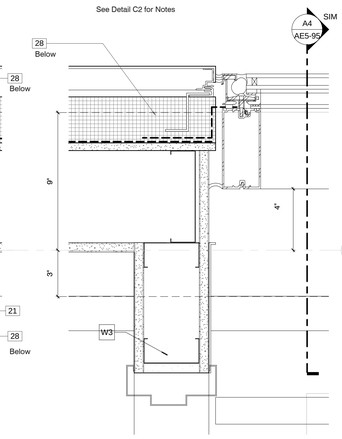

C3 L2 - Stair Tower Outside CW Corner Detail
3" = 1'-0"



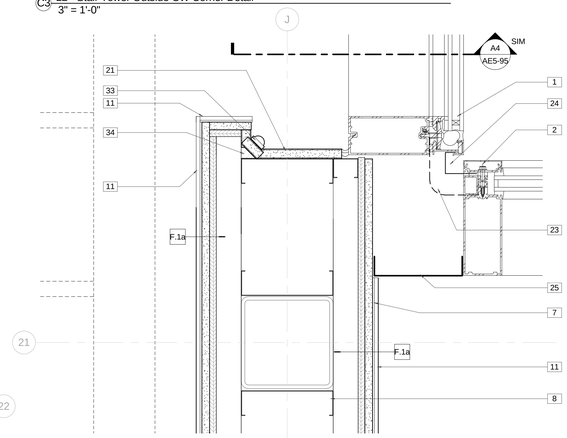

C5 L2 - Vestibule CW Jamb Detail
3" = 1'-0"



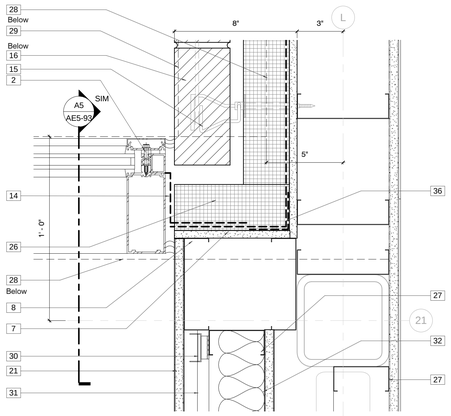

B1 L1 - Stair Tower Junction with Brick Venee
3" = 1'-0"



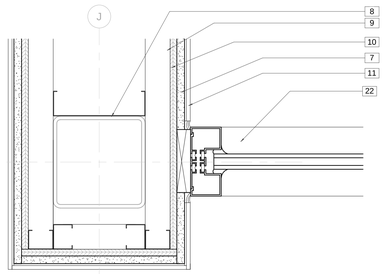

B2 L1 - Stair Tower CW Jamb Detail
3" = 1'-0"




B3 L1 - Stair Tower_Vestibule Corner Transition Detail
3" = 1'-0"




B5 L1 - Vestibule CW Jamb Detail
3" = 1'-0"



A3 Level 1 Stairs - Callout 4
3" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | 4-Sided Structurally Glazed Aluminum Curtainwall System |
| 2 | 7 1/2" Conventionally Glazed Aluminum Curtainwall System |
| 3 | 3" Rigid Insulation, Minimum R-5 per Inch. |
| 4 | Thermally Broken Bracket |
| 5 | Metal Composite Wall Panel |
| 6 | Vapor Impermeable Fluid Applied Air Barrier |
| 7 | 1/2" Glass Mat Sheathing |
| 8 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 9 | 1 5/8" Metal Stud Framing |
| 10 | 7/16" Plywood Sheathing |
| 11 | 1/4" Spandrel Glass Adhered To Substrate. Polish All Exposed Edges |
| 12 | Cantilevered, Laminated, Tempered, Frosted Glass Assembly |
| 13 | Cast Aluminum Support Shoe With 1/2" Plate Welded To Top Of Stringer As Required By Decorative Metal Railing Manufacturer For Glass Assembly. Enclose With Stainless Steel Cladding. |
| 14 | EPDM Boot Sealed To Air Barrier and Glazed Into Curtain Wall System |
| 15 | Masonry Anchor @ 16" O.C. Maximum |
| 16 | 5 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (9" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 17 | HSS 4" x 4" x 1/4" |
| 18 | HSS 16" x 4" x 1/4" |
| 19 | L 4" X 4" x 1/4" |
| 20 | HSS 12" x 4" x 1/4" |
| 21 | 1 Layer 5/8" Gypsum Board |
| 22 | Aluminum Framed Storefront System |
| 23 | EPDM Boot Glazed Into Curtain Walls for Continuity of Air Barrier- Seal at Top and Bottom of Assembly |
| 24 | Pre-Finished Inside Corner Brake Metal Shape Glazed Into Curtain Wall System |
| 25 | Pre-Finished .461" Aluminum Brake Shape to Match Aluminum Curtain Wall System |
| 26 | 2 Layers 1-1/2" R-5 Per Inch Cavity Insulation With Overlapping, Taped Joints. Total 3" Thickness and R15 |
| 27 | 3 5/8" Metal Studs @ 24" O.C. ( 22 Gage Min.) |
| 28 | Reinforced Concrete Wall refer to Structural |
| 29 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 30 | RSIC-I Resilient Clip @ 48" O.C Horizontally And 24" O.C. Vertically - Or 1/2" RC Channel @ 24" O.C. Refer To Floor Plans For Partition Type. |
| 31 | Provide 7/8" Hat Channel @ 24" O.C. If Risc-1 Clip Is Used. See Floor Plans For Partition Type. |
| 32 | R-13 Unfaced Sound Blanket |
| 33 | Continuous LED Light Strip With Continuous Lens.See Electrical |
| 34 | Continuous Wood Canting Strip |
| 35 | Brake Metal Angle for Metal Stud Support |
| 36 | Air Barrier Joint Reinforcement Strip |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

| | |
|---|---|
| Architectural: | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrzewski Designs - 801.582.9747 |

### STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT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### SHEET DATA

Drawn By: Eric
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building | Salt Lake City, UT | 801.538.3018

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

| Revision | Date |
|---|---|

### ISSUE/PHASE

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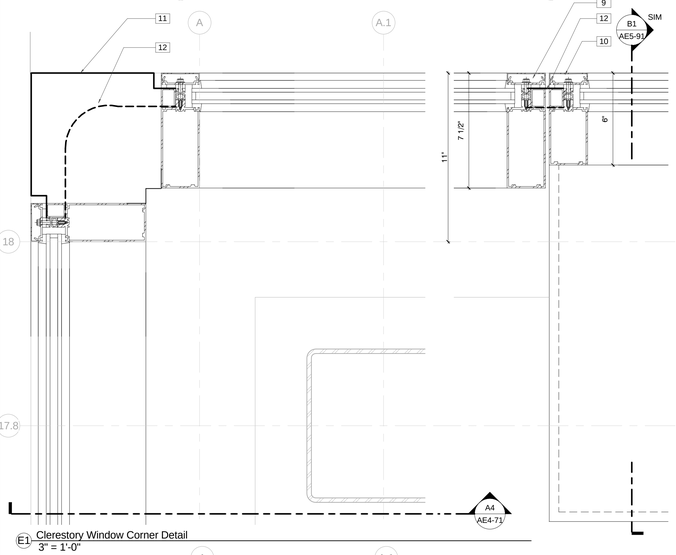
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

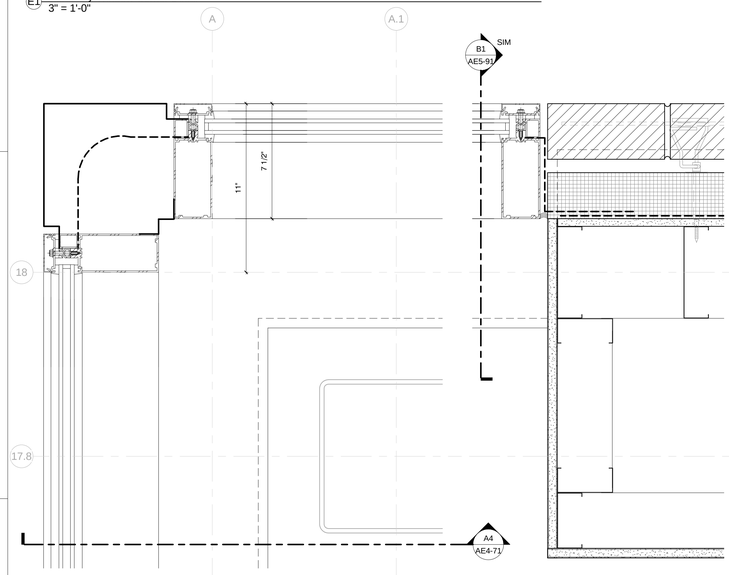
Construction Documents

Envelope Plan Details

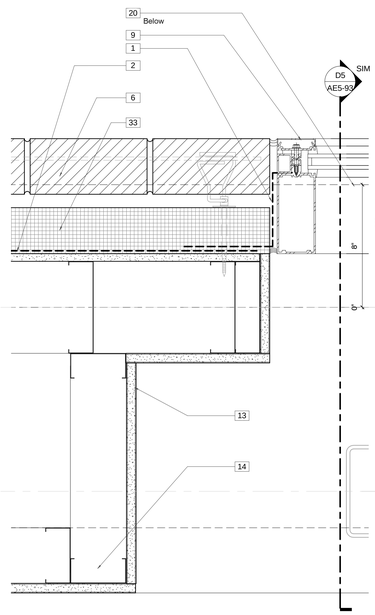
AE5-81

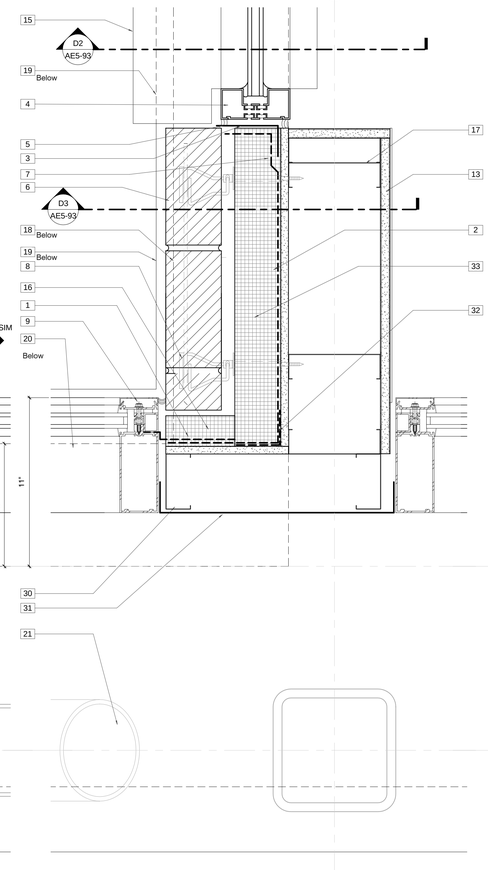



E1 Clerestory Window Corner Detail
3" = 1'-0"

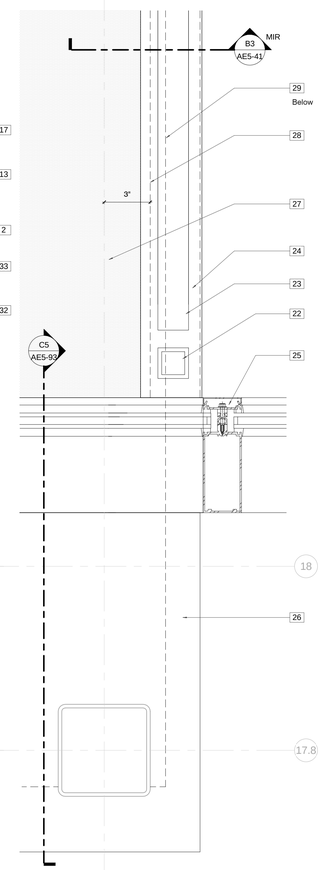



C1 L2 NorthWest Gym CW Detail
3" = 1'-0"

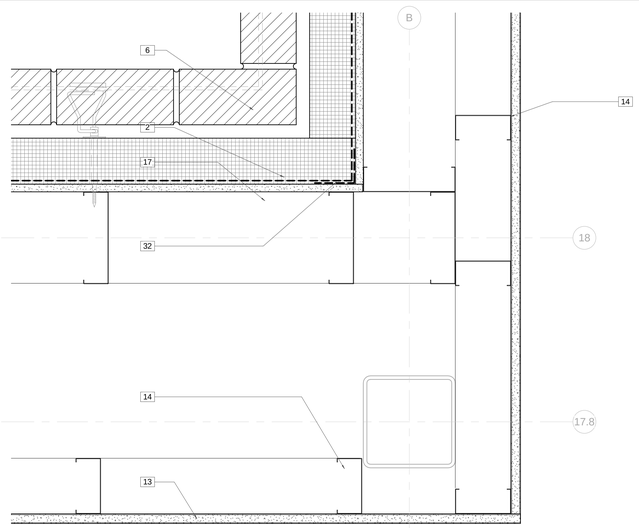



C4 L2 North Gymnasium CW Detail
3" = 1'-0"




C5 L2 North Gymnasium CW Detail
3" = 1'-0"




A3 L1 North Gymnasium CW Detail
3" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | EPDM Boot Sealed To Air Barrier and Glazed Into Curtain Wall System |
| 2 | Vapor Impermeable Fluid Applied Air Barrier |
| 3 | Prefabricated, Galvanized Subframe with Welded Corners. Fabricate From 2"X 4.5"X 1/8" Angle. Attach To Metal Stud Framing With #10 Screws at 8" O.C. |
| 4 | Aluminum Framed Storefront System |
| 5 | Seal Storefront Frame to Sub Frame |
| 6 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 7 | Wrap Air Barrier Over Sub Jamb/Head/Sill. Transition Air Barrier As Required By Air Barrier Manufacturer |
| 8 | Masonry Anchor @ 16" O.C. Maximum |
| 9 | 7 1/2" Conventionally Glazed Aluminum Curtainwall System |
| 10 | 6" Conventionally Glazed Aluminum Curtainwall System |
| 11 | Pre-Finished Exterior Brake Metal Panel Glazed Into Curtain Wall System |
| 12 | EPDM Boot Glazed Into Curtain Walls for Continuity of Air Barrier- Seal at Top and Bottom of Assembly |
| 13 | 1 Layer 5/8" Gypsum Board |
| 14 | 3 5/8" Metal Studs @ 24" O.C. ( 22 Gage Min.) |
| 15 | Aluminum Threshold |
| 16 | 2" Rigid Insulation, Minimum R-5 per Inch. |
| 17 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 18 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 19 | 24" Square Concrete Pavers on Pedestals |
| 20 | Concrete Curb |
| 21 | Steel Brace Member, Refer To Structural Drawings |
| 22 | HSS 2"X2x3/16" Stainless Steel Post Welded To Deck Edge |
| 23 | Fully Welded Frame Fabricated From HSS 2"X2x3/16" Stainless Steel. Grind All Welds Smooth |
| 24 | Hardwood Trim. Scribe around Post Penetrations |
| 25 | Interior Glazed Aluminum Curtain Wall System |
| 26 | 5/8" Gypsum Board |
| 27 | Carpet |
| 28 | Line of Concrete Slab Below. |
| 29 | 1 5/8" Metal Stud Framing |
| 30 | 3 5/8" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 31 | Pre-Finished .461" Aluminum Brake Shape to Match Aluminum Curtain Wall System |
| 32 | Air Barrier Joint Reinforcement Strip |
| 33 | 2 Layers 1-1/2" R-5 Per Inch Cavity Insulation With Overlapping, Taped Joints. Total 3" Thickness and R15 |


JACOBY ARCHITECTS

425 South 400 East
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801 363 1434
Project Number: 2014-07


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| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrziewski Designs - 801.582.9747 |

STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT


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SHEET DATA

Drawn By: Eric
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
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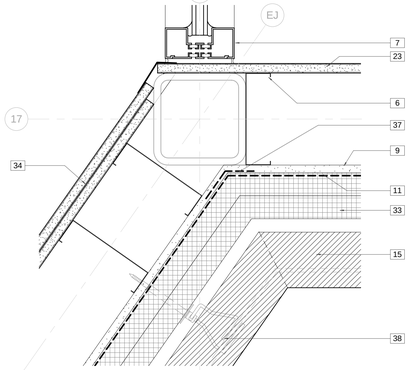
| 2015 05 21 | Bidding Documents |

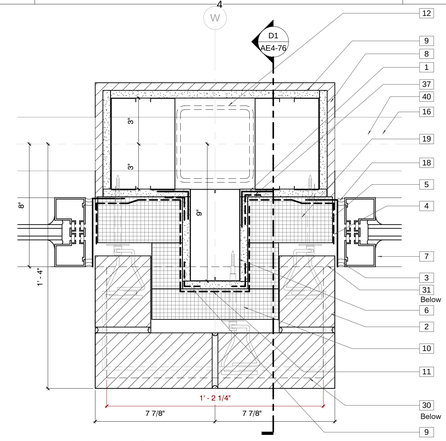
Construction Documents

Envelope Plan Details

AE5-82




E2 Level 1 Key Plan - Callout 14
3" = 1'-0"




E4 Level 1 Key Plan - Callout 7
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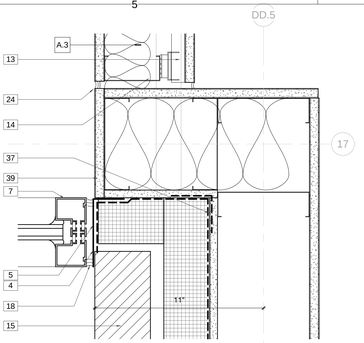
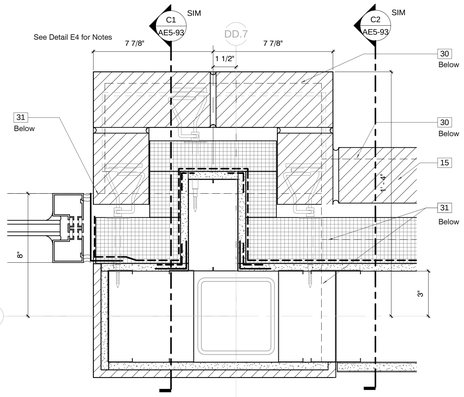
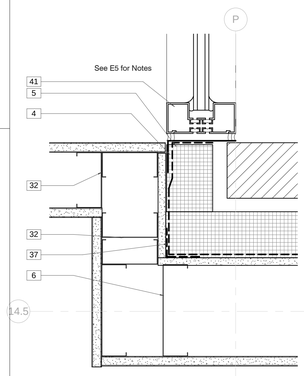



E5 Level 1 Key Plan - Callout 9
3" = 1'-0"

| Keynote Legend | |
|---|---|
| 1 | Break Metal Angle/Piece For Stud Framing Continuity |
| 2 | 3-5/8" brick veneer. |
| 3 | Seal Storefront System to Flashing |
| 4 | Prefabricated, Galvanized Subframe with Welded Corners. Fabricate From 2"X 4.5"X 1/8" Angle. Attach To Metal Stud Framing With #10 Screws at 8" O.C. |
| 5 | Wrap Air Barrier Over Sub Jamb/Head/Sill. Transition Air Barrier As Required By Air Barrier Manufacturer |
| 6 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 7 | Aluminum Framed Storefront System |
| 8 | 1/2" Adhered Brick, Refer to Elevations for Color and Pattern. |
| 9 | 1/2" Glass Mat Sheathing |
| 10 | 2" Rigid Insulation, Minimum R-5 per Inch. |
| 11 | Vapor Impermeable Fluid Applied Air Barrier |
| 12 | Steel Column refer to Structural |
| 13 | Provide 7/8" Hat Channel @ 24" O.C. If Risc-1 Clip Is Used. See Floor Plans For Partition Type. |
| 14 | 6" Unfaced Sound Blanket |
| 15 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 16 | Paint Exposed Steel Member, Typical |
| 17 | Wrap Air Barrier around Steal Beam to Ensure Complete Seal |
| 18 | Seal Storefront Frame to Sub Frame |
| 19 | 3" Rigid Insulation, Minimum R-5 per Inch. |
| 20 | Line of Concrete Wall Below |
| 21 | Thermally Broken Bracket |
| 22 | Metal Composite Wall Panel |
| 23 | 1 Layer 5/8" Gypsum Board |
| 24 | Js-4 Acoustical Sealant at Entire Perimeter and At All Penetrations. |
| 25 | Stainless Steel drip edge |
| 26 | Brake Metal Closure Panel by Storefront Contractor to Match Storefront System |
| 27 | Treated Wood Nailer |
| 28 | Prefinished 22 Gage Counterflashing |
| 29 | Electrometric Transition Sheet Lapped Over Flashing And Sealed To Fluid Applied Air Barrier. |
| 30 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 31 | Reinforced Concrete Wall refer to Structural |
| 32 | 3 5/8" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 33 | 2 Layers 1-1/2" R-5 Per Inch Cavity Insulation With Overlapping, Taped Joints. Total 3" Thickness and R15 |
| 34 | 2 Layers 5/8" Gypsum Board |
| 35 | 1/4" Clear Float Glass Adhered With Clear Silicone Sealant as Indicated |
| 36 | Wrap KEE Memibrane Up Curb and Seal to Sheet Metal Chemical Compatibility Separation Strip Which Is Sealed To Air Barrier |
| 37 | Air Barrier Joint Reinforcement Strip |
| 38 | Masonry Anchor @ 16" O.C. Maximum |
| 39 | 5/8" Gypsum Board |
| 40 | Architecturally Exposed Structural Steel Framing |
| 41 | Aluminum Framed Entrances and Storefronts |
| 42 | Prefinished 22 Gage Flashing |




C4 Level 1 Key Plan - Callout 18
3" = 1'-0"




C1 Level 1 Key Plan - Callout 16
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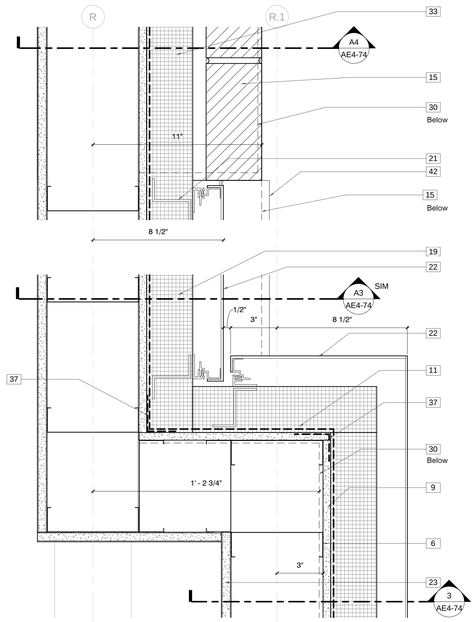
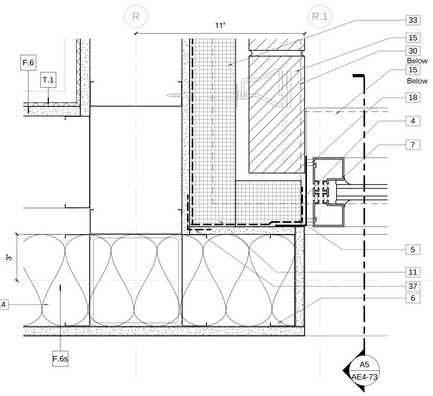



C2 Classroom clerestory plan - Callout 3
3" = 1'-0"




B3 Level 1 Key Plan - Callout 13
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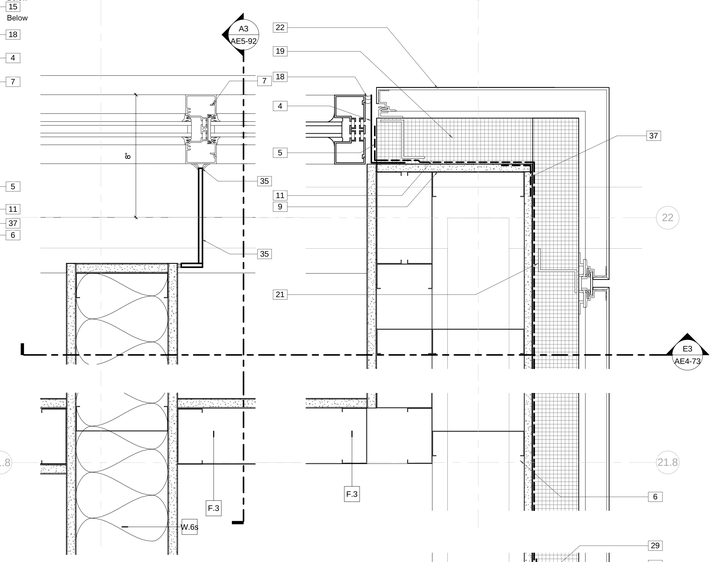
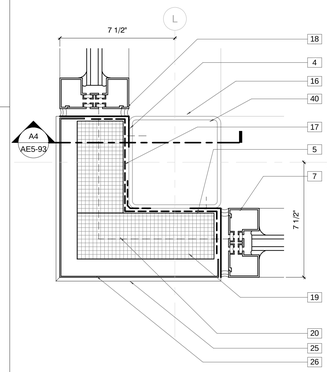
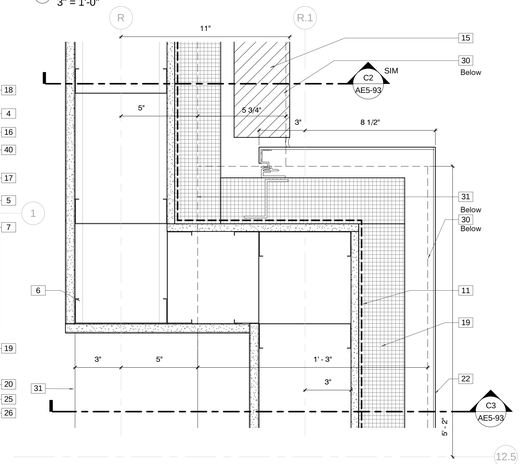


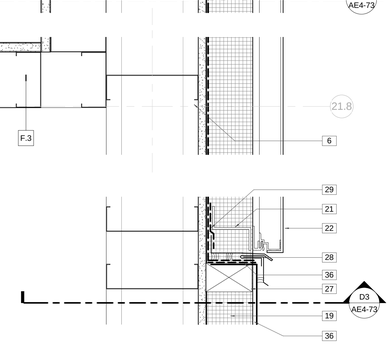

B4 Classroom clerestory plan - Callout 2
3" = 1'-0"




A1 Level 1 Key Plan - Callout 1
3" = 1'-0"




A2 Level 1 Key Plan - Callout 15
3" = 1'-0"




A5 Classroom clerestory plan - Callout 1
3" = 1'-0"


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

| | |
|---|---|
| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
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STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT


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SHEET DATA

Drawn By: Eric
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

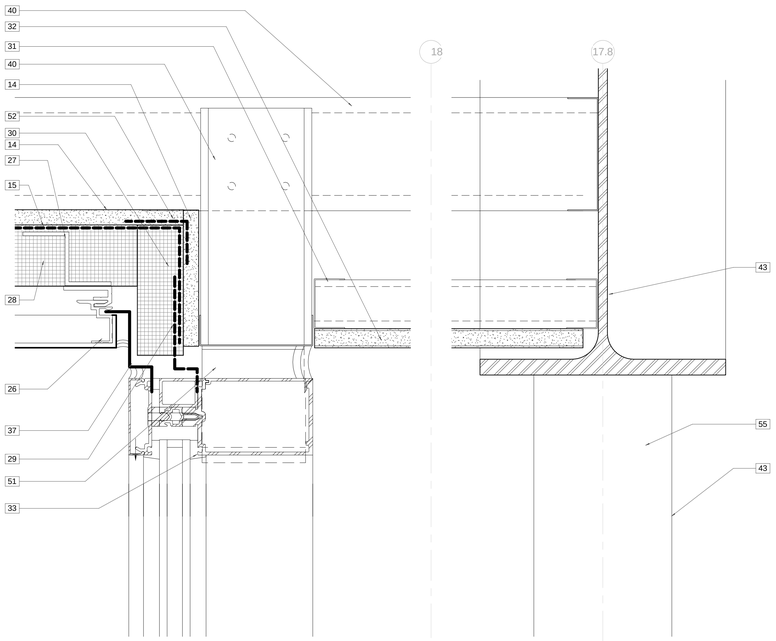
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

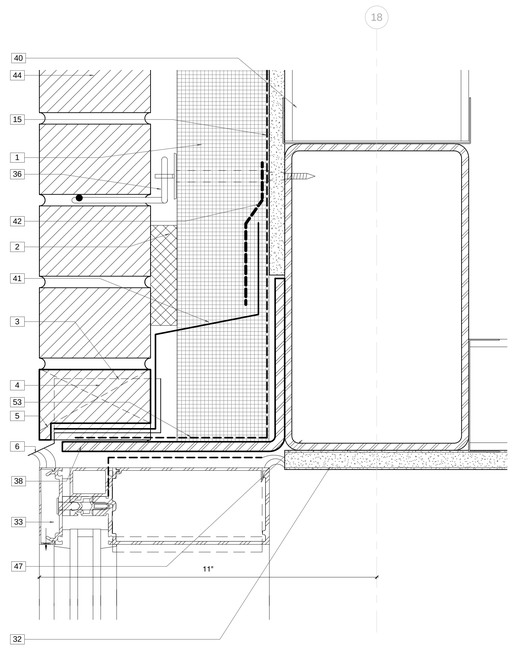
Construction Documents

Envelope Plan Details

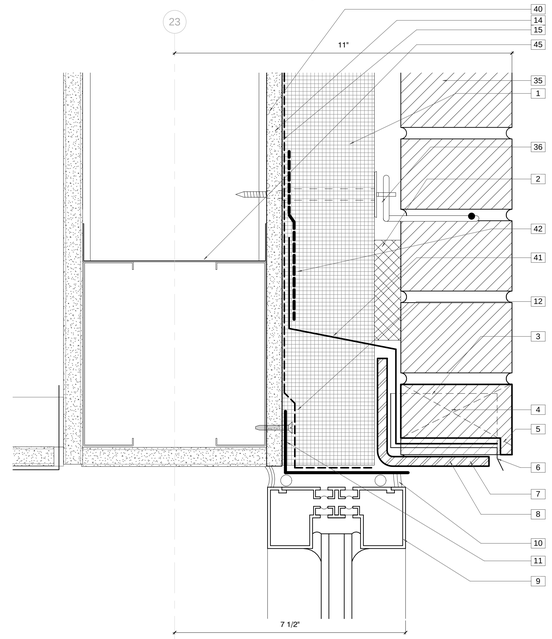
AE5-83



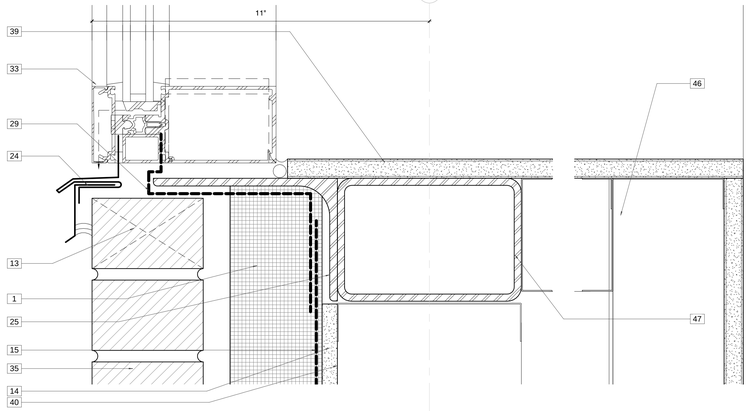
D1 Curtainwall Head at Gym Clerestory
6" = 1'-0"



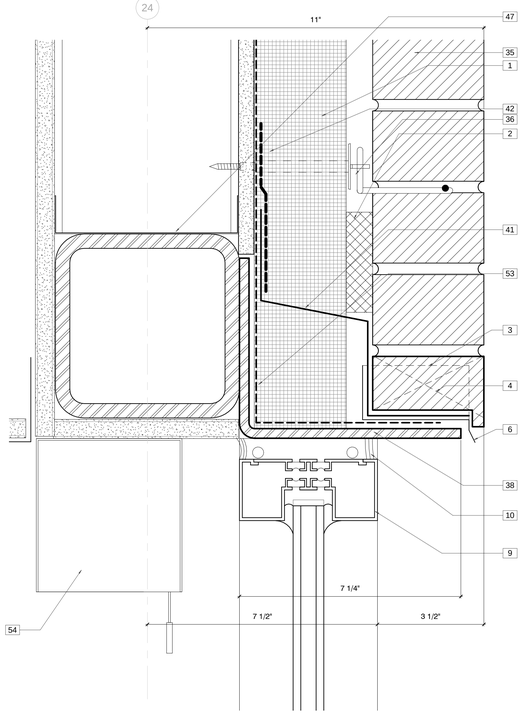
D3 Curtainwall Head at Masonry Veneer
6" = 1'-0"



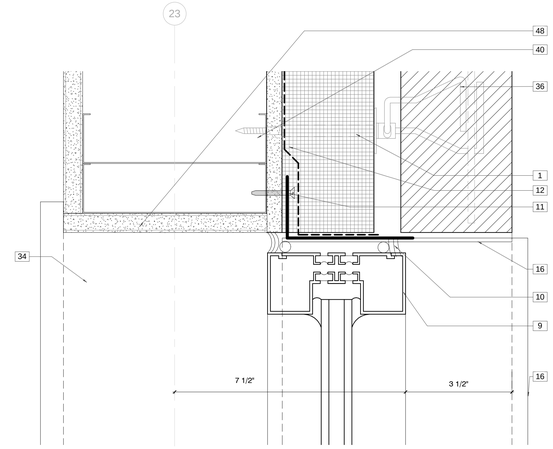
D4 Punched Opening Head Detail With Lintel
6" = 1'-0"



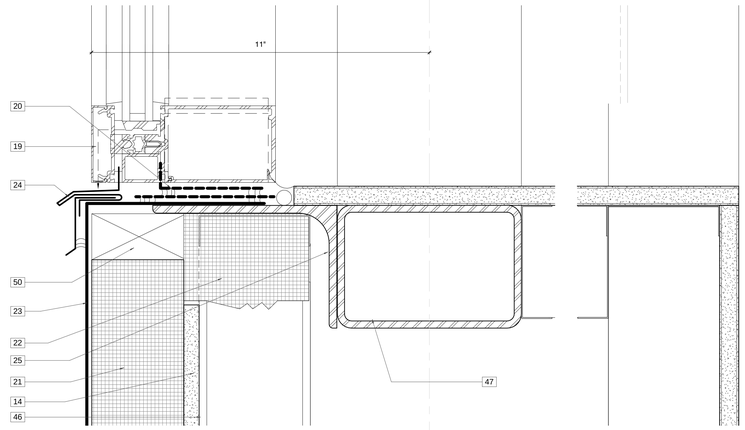
B1 Curtainwall Sill At Gym Clerestory
6" = 1'-0"



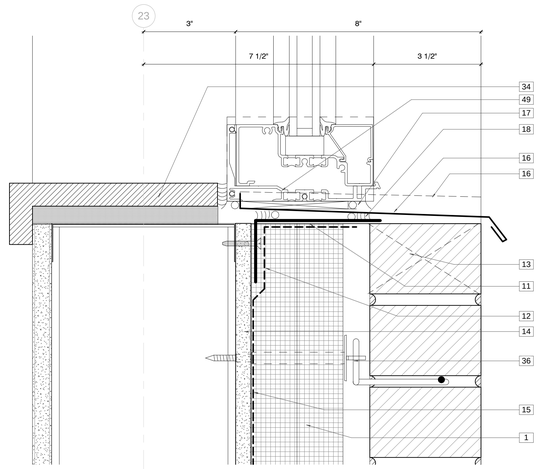
B3 Punched Opening Head @ Relieving Angle
6" = 1'-0"



B4 Punched Opening Jamb Detail
6" = 1'-0"



A1 Curtainwall Sill At Gym Clerestory
6" = 1'-0"



A4 Punched Opening Sill Detail
6" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | 2 Layers 1-1/2" R-5 Per Inch Cavity Insulation With Overlapping, Taped Joints. Total 3" Thickness and R15 |
| 2 | Cavity Drainage Mat |
| 3 | Flashing With End Dam, Extend To Far Side of Adjacent Brick, Seal with Mastic |
| 4 | Weep @24" O.C. |
| 5 | Notched Brick to Accommodate Relieving Angle |
| 6 | Stainless Steel drip edge |
| 7 | Galvanized Lintel. Refer To Structural Drawings for Size |
| 8 | High Performance Coating on Galvanized Steel |
| 9 | Aluminum Framed Storefront System |
| 10 | Seal Storefront Frame to Sub Frame |
| 11 | Prefabricated, Galvanized Subframe with Welded Corners. Fabricate From 2"X 4.5"X 1/8" Angle. Attach To Metal Stud Framing With #10 Screws at 8" O.C. |
| 12 | Wrap Air Barrier Over Sub Jamb/Head/Sill. Transition Air Barrier As Required By Air Barrier Manufacturer |
| 13 | Vent @ 24" O.C. |
| 14 | 1/2" Glass Mat Sheathing |
| 15 | Vapor Impermeable Fluid Applied Air Barrier |
| 16 | Prefinished Sill Flashing with Integrated End Dam |
| 17 | Seal Storefront System to Flashing |
| 18 | Seal Flashing to Subframe |
| 19 | 6" Conventionally Glazed Aluminum Curtainwall System |
| 20 | EPDM Boot Sealed To Sheet Metal Chemical Compatibility Separation Strip, Sealed To Roof Membrane |
| 21 | 3" Rigid Insulation, Minimum R-5 per Inch. |
| 22 | Fill Area Indicated With Closed Cell Spray Foam Insulation (R6.2 Minimum Per Inch) 4" Minimum Total Thickness. R 24.8 Total |
| 23 | Wrap TPO Membrane up Curb and Seal to Sheet Metal Chemical Compatibility Separation Strip, Which is Sealed to Air Barrier Glazing Boot |
| 24 | Prefinished 22 Gage Counterflashing |
| 25 | Galvanized 6X4 Angle - See Structural |
| 26 | Metal Composite Soffit Panels |
| 27 | Thermally Broken Bracket |
| 28 | 2" Rigid Insulation, Minimum R-5 per Inch. |
| 29 | EPDM Boot Sealed To Air Barrier and Glazed Into Curtain Wall System |
| 30 | 1 1/2" Rigid Insulation |
| 31 | 1 5/8" Metal Stud Framing |
| 32 | 5/8" Gypsum Board |
| 33 | Glazed Aluminum Framed Curtain Wall System |
| 34 | Solid Surface Window Stool |
| 35 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 36 | Masonry Anchor @ 16" O.C. Maximum |
| 37 | Pre-Finished Exterior Brake Metal Panel Glazed Into Curtain Wall System |
| 38 | Galvanized Bent Plate - See Structural |
| 39 | 5/8" Gypsum Board On Metal Stud Framing |
| 40 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 41 | High Temp. Flexible Cavity Seal Bonded To Flashing and Air Barrier |
| 42 | Electrometric Transition Sheet Lapped Over Flashing And Sealed To Fluid Applied Air Barrier. |
| 43 | Paint Exposed Steel Member, Typical |
| 44 | 3-5/8" brick veneer. |
| 45 | Structural Stud Header as Required for Width of Opening |
| 46 | 3 5/8" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 47 | HSS refer to Structural Drawings. |
| 48 | 1 Layer 5/8" Gypsum Board |
| 49 | Thermally Broken Storefront Flashing Pan by Storefront Manufacturer, Prefinished To Match Storefront |
| 50 | Treated Wood Nailer |
| 51 | Deflection Head To Accommodate 1" Of Deflection |
| 52 | Air Barrier Joint Reinforcement Strip |
| 53 | Wrap Air Barrier to 1" From Leading Edge of Relieving Angle |
| 54 | Roller Window Shades |
| 55 | Architecturally Exposed Structural Steel Framing |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS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Landscape: - Landmark Design - 801.474.3300
Food Service: - Jedziewski Designs - 801.582.9747


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STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT

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### SHEET DATA

Drawn By: Eric
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

| Revision | Date |
|---|---|

### ISSUE/PHASE

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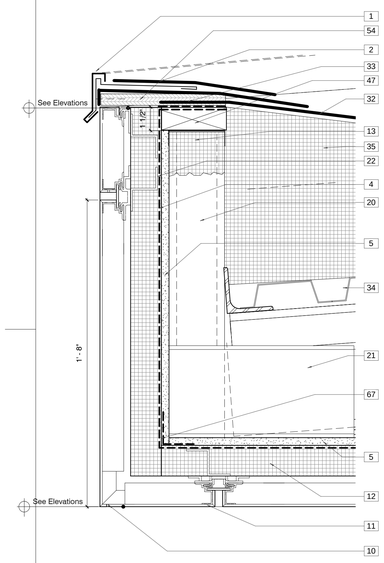
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

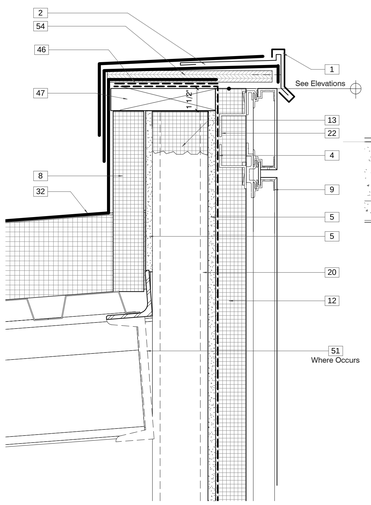
Construction Documents

Envelope Details

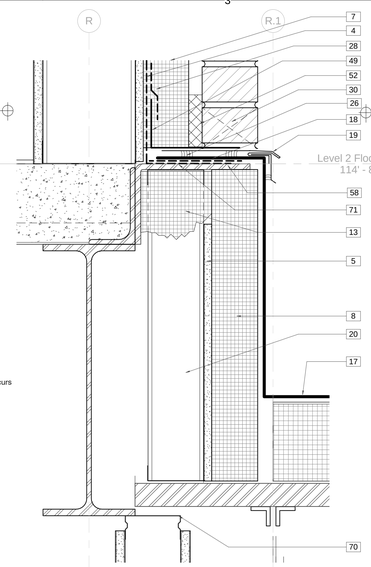
AE5-91



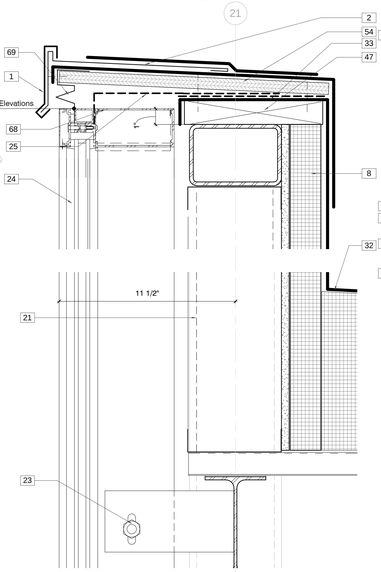

D1 Section 50 - Callout 1
3" = 1'-0"



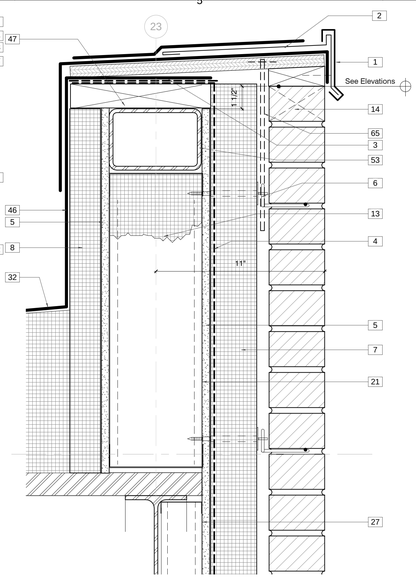

D2 Section 51 - Callout 1
3" = 1'-0"



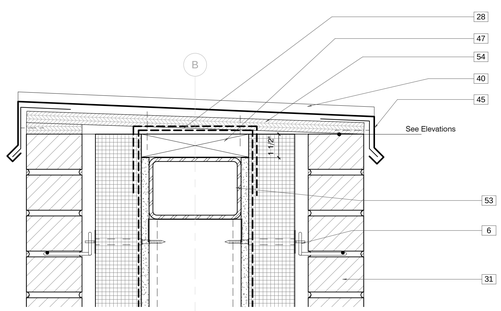

D3 Section 99 - Callout 1
3" = 1'-0"



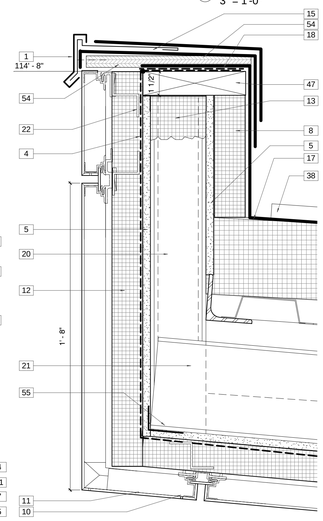

D4 Curtainwall Parapet Detail
3" = 1'-0"



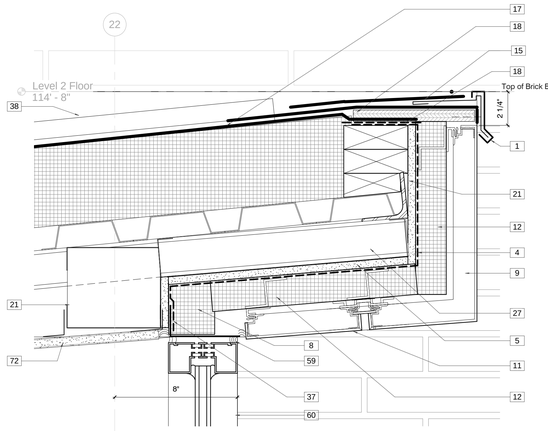

D5 Masonry Parapet Detail
3" = 1'-0"



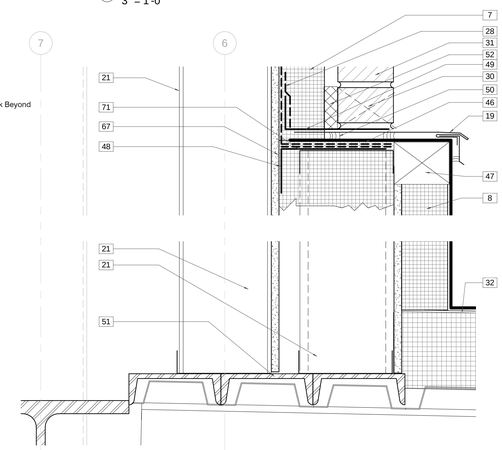

C1 Section 72 - Callout 2
3" = 1'-0"



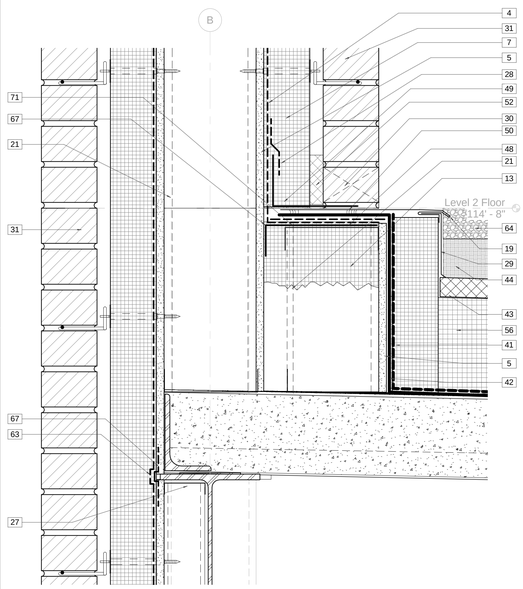

C2 Section 64 - Callout 3
3" = 1'-0"



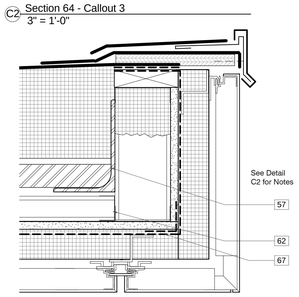

C3 Section 58 - Callout 3
3" = 1'-0"



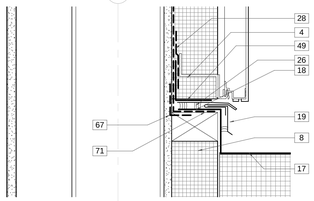
C4 Section 54 - Callout 1
3" = 1'-0"



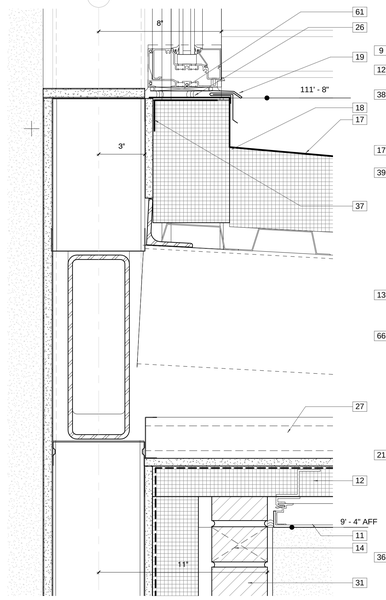

A1 Section 72 - Callout 1
3" = 1'-0"



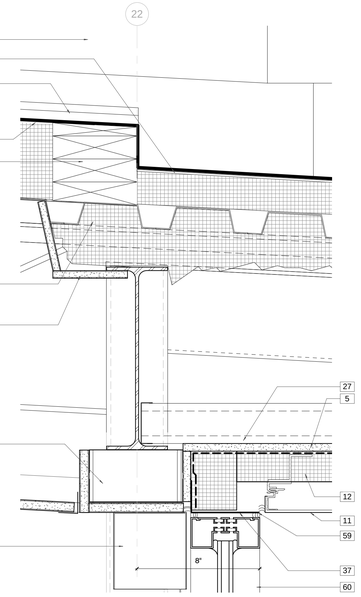

B2 Section 96 - Callout 2
3" = 1'-0"



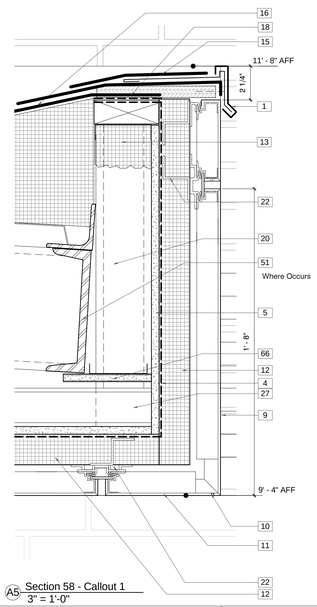
A2 Section 96 - Callout 1
3" = 1'-0"




A3 Section 58 - Callout 2
3" = 1'-0"




A4 Section 59 - Callout 1
3" = 1'-0"




A5 Section 58 - Callout 1
3" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | 22 Gage Prefinished Clip-On Fascia Trim |
| 2 | TPO Membrane Sealed To Pre-Coated Flashing |
| 3 | Wrap Air Barrier Up Over Parapet Blocking And Seal to Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Roof Membrane |
| 4 | Vapor Impermeable Fluid Applied Air Barrier |
| 5 | 1/2" Glass Mat Sheathing |
| 6 | Masonry Anchor @ 16" O.C. Maximum |
| 7 | 2 Layers 1-1/2" Rs Per Inch Cavity Insulation With Overlapping, Taped Joints. Total 3" Thickness and R15 |
| 8 | 3" Rigid Insulation, Minimum R-5 per Inch. |
| 9 | Metal Composite Wall Panel |
| 10 | Integrated Drip |
| 11 | Metal Composite Soffit Panels |
| 12 | 2" Rigid Insulation, Minimum R-5 per Inch. |
| 13 | Fill Area Indicated With Closed Cell Spray Foam Insulation (R6.2 Minimum Per Inch) 4" Minimum Total Thickness. R 24.8 Total |
| 14 | Vent @ 24" O.C. |
| 15 | KEE Membrane Sealed To Pre-Coated Flashing |
| 16 | Tapered Insulation below Cover Board and KEE Roof Membrane |
| 17 | KEE Membrane Over Base Layer of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 18 | Wrap KEE Membrane Up Curb and Seal to Sheet Metal Chemical Compatibility Separation Strip Which Is Sealed To Air Barrier |
| 19 | Prefinished 22 Gage Counterflashing |
| 20 | 3 5/8" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 21 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 22 | Thermally Broken Bracket |
| 23 | Pair Of Painted Steel Plates Welded To Adjacent Beam To Accommodate Vertical Deflection, And To Resist Horizontal Movement. Designed and Installed By Curtain Wall Contractor |
| 24 | Glazed Aluminum Framed Curtain Wall System |
| 25 | EPDM Boot Sealed To Sheet Metal Chemical Compatibility Separation Strip, Sealed To Roof Membrane |
| 26 | Seal Flashing To Roof Membrane |
| 27 | 2 1/2" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 28 | Electrometric Transition Sheet Lapped Over Flashing And Sealed To Fluid Applied Air Barrier. |
| 29 | Prefinished 22 Gage Flashing |
| 30 | Weep @24" O.C. |
| 31 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 32 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 33 | Wrap TPO Membrane up Curb and Seal to Sheet Metal Chemical Compatibility Separation Strip, Which is Sealed to Air Barrier Glazing Boot |
| 34 | Metal Roof Deck Refer to Structural |
| 35 | Tapered Insulation below TPO Roof Membrane |
| 36 | Manually Operated Roller Window Shades With Metal Valence. Attach To Door. |
| 37 | Prefabricated, Galvanized Subframe with Welded Corners. Fabricate From 2"X 4.5"X 1/8" Angle. Attach To Metal Stud Framing With #10 Screws at 8" O.C. |
| 38 | Adhered Simulated Standing Seam |
| 39 | Wood Curb From Treated 2X6 Members. |
| 40 | Standing Seam Coping Joint |
| 41 | Root Barrier |
| 42 | Wrap Waterproofing Up Wall, Lap Over Blocking/Curb, And Seal To Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Air Barrier |
| 43 | Water Retention Layer With Integrated Filter Fabric |
| 44 | Planting Media |
| 45 | 20 Gage Prefinished Metal Coping |
| 46 | Wrap TPO Membrane Up Curb and Seal To Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Air Barrier |
| 47 | Treated Wood Nailer |
| 48 | Brake Metal Angle for Metal Stud Support |
| 49 | High Temp. Flexible Cavity Seal Bonded To Flashing and Air Barrier |
| 50 | Set Flashing In Bed of Sealant to Seal to Complete Seal to Air Barrier/Waterproof Membrane |
| 51 | Steel Channel Section. See Structural |
| 52 | Cavity Drainage Mat |
| 53 | HSS refer to Structural Drawings. |
| 54 | 3/4" Treated Plywood |
| 55 | Break Metal Angle/Piece For Stud Framing Continuity |
| 56 | 6" XPS Rigid Insulation (3 Layers of 2" With Staggered Joints) Provides Slots in Base Layer |
| 57 | 6"X4" Angle, See Structural |
| 58 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 59 | Seal Storefront Frame to Sub Frame |
| 60 | Aluminum Framed Storefront System |
| 61 | Seal Storefront System to Flashing |
| 62 | 1 5/8" Structural Studs, Gage And Spacing, As Required To Comply With Performance Criteria. |
| 63 | Wrap Air Barrier Over Beam Flanges To Complete Air Tight Envelope, Typical, Where Occurs. Transition Air Barrier As Required By Air Barrier Manufacturer. Notch Insulation as Required. |
| 64 | Crushed Stone |
| 65 | Fasten Blocking With J Bolt Hooked Below Bottom of Top Masonry Tie |
| 66 | 1/2" Gyp Board To Enclose Insulation |
| 67 | Air Barrier Joint Reinforcement Strip |
| 68 | Deflection Head To Accommodate 1" Of Deflection |
| 69 | Pre-Finished Hinged Brake metal Shape by Cw Contractor for Deflection |
| 70 | Deflection Head Track For 1" Of Vertical Deflection, Typical |
| 71 | Wrap Air Barrier to 1" From Leading Edge of Relieving Angle |
| 72 | 5/8" Gypsum Board |


JACOBY ARCHITECTS

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Eric R. Jacoby
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### SHEET DATA

Drawn By: Eric
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

| Revision | Date |
|---|---|

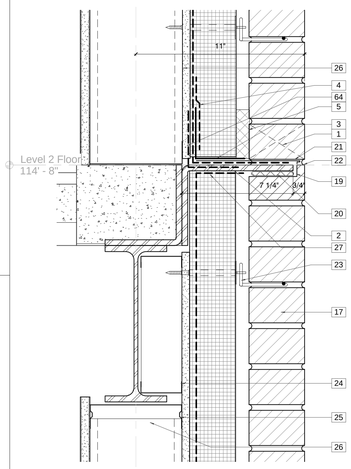
### ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

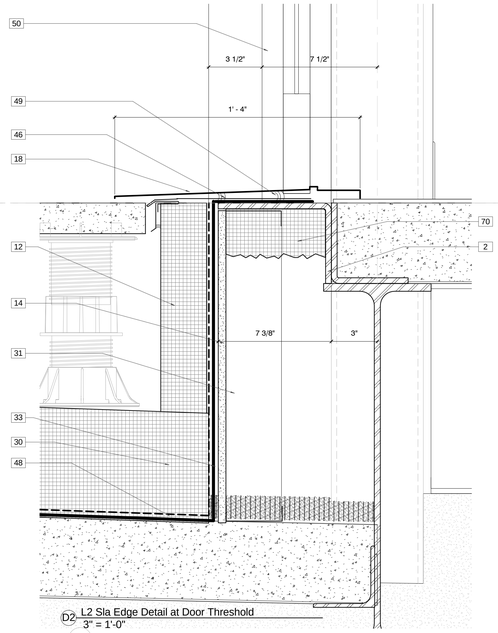
Construction Documents

Envelope Details

AE5-92




D1 L2 Slab Edge Detail
3" = 1'-0"




D2 L2 Sla Edge Detail at Door Threshold
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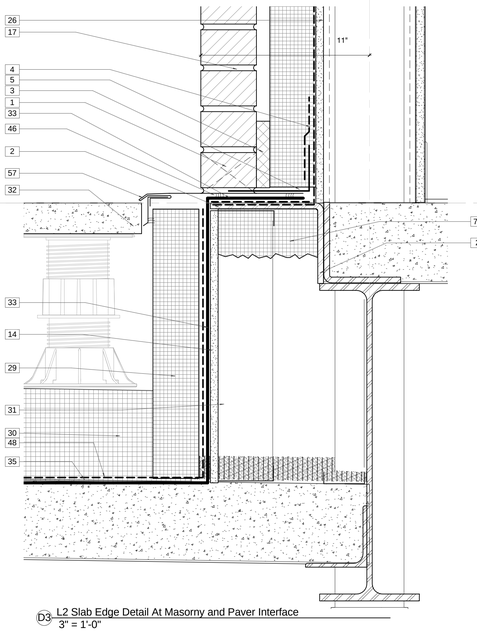
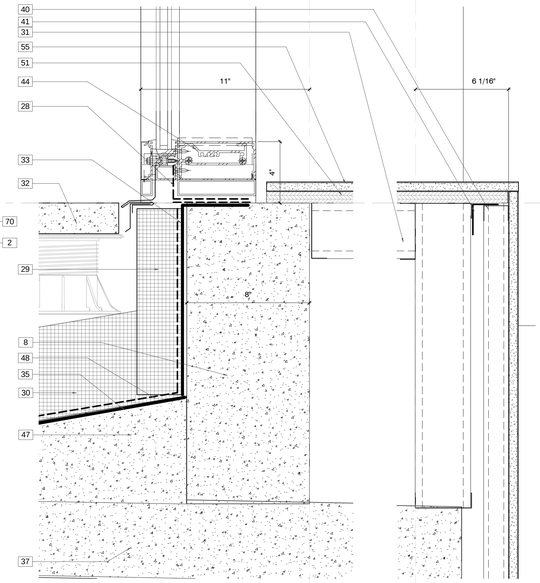
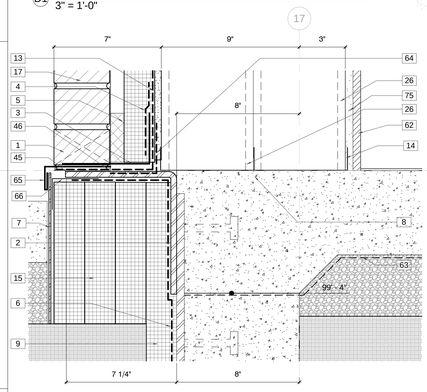


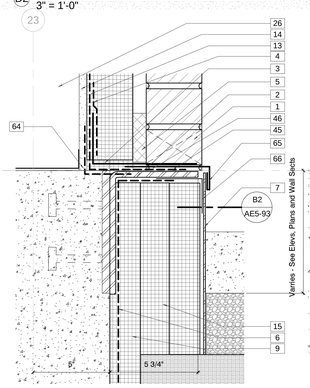

D3 L2 Slab Edge Detail At Masorny and Paver Interface
3" = 1'-0"



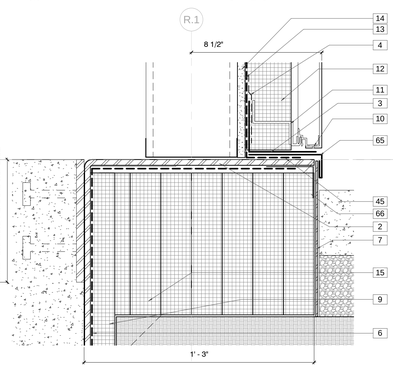

D5 L2 Slab Edge Detail at Curtainwall and Paver Interface
3" = 1'-0"



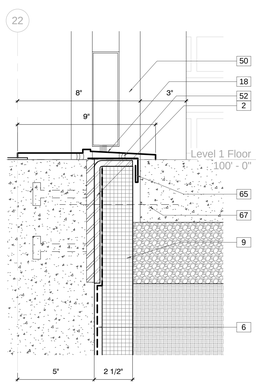

C1 L1 Slab Edge at Brick Piers
3" = 1'-0"




C2 L1 Brick Veneer Slab Edge Detail
3" = 1'-0"




C3 L1 Slab Edge At Courtyard Tower
3" = 1'-0"




C4 l1 Slab Edge Detail at Storefront Threshold
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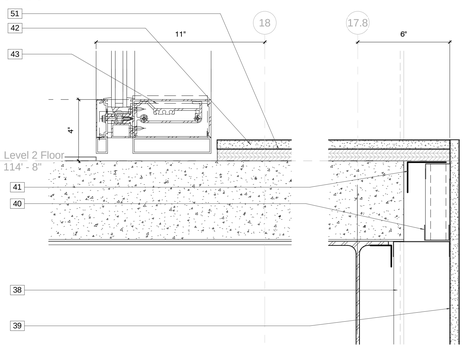
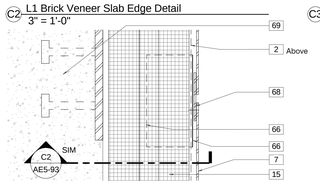
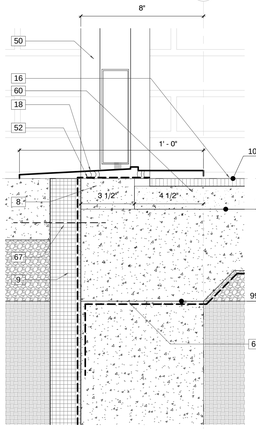


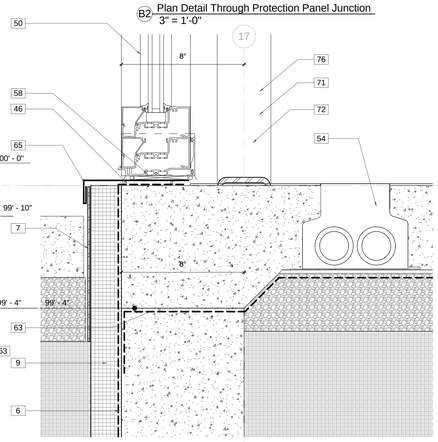

C5 L2 Slab Edge Getail at Interior Curtainwall
3" = 1'-0"



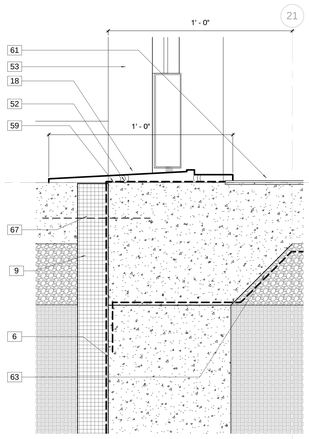

B2 Plan Detail Through Protection Panel Junction
3" = 1'-0"



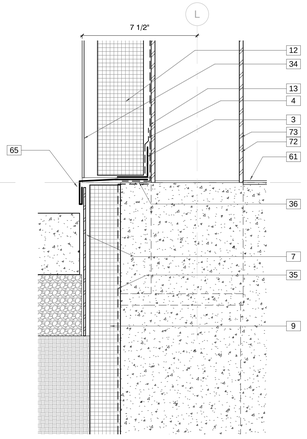

A1 L1 Slab Edge At Storefront Threshold
3" = 1'-0"



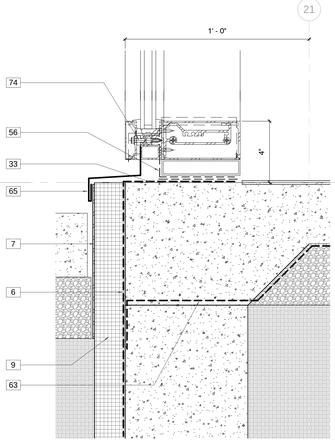

A2 L1 Slab Edge at Classroom Corridor Storefront Sill
3" = 1'-0"



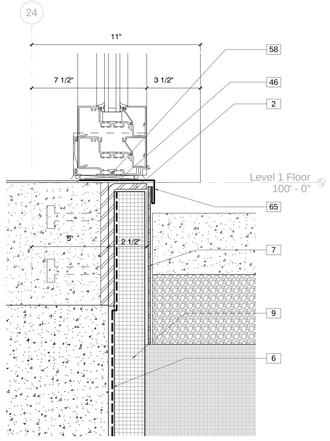

A3 L1 Slab Edge At Curtainwall Threshold
3" = 1'-0"




A4 L1 Slab Edge At Storefront Corner Condition
3" = 1'-0"




A5 L1 Slab Edge At Curtainwall Sill
3" = 1'-0"




A6 L1 Slab Edge at Storefront Sill
3" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Weep @24" O.C. |
| 2 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 3 | High Temp. Flexible Cavity Seal Bonded To Flashing and Air Barrier |
| 4 | Electrometric Transition Sheet Lapped Over Flashing And Sealed To Fluid Applied Air Barrier. |
| 5 | Cavity Drainage Mat |
| 6 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 7 | 0.010" Prefinished Aluminum Protection Panel. Extend A Minimum of 3" Below Finish Grade |
| 8 | Concrete Curb |
| 9 | 2" Rigid R10 Foundation Insulation |
| 10 | Integrated Drip |
| 11 | Thermally Broken Bracket |
| 12 | 3" Rigid Insulation, Minimum R-5 per Inch. |
| 13 | Vapor Impermeable Fluid Applied Air Barrier |
| 14 | 1/2" Glass Mat Sheathing |
| 15 | Additional Layers of 2" Rigid Insulation as Indicated, Over 2" Rigid R10 Foundation Insulation to Fill Cavity below Relieving Angle |
| 16 | Ceramic Tile |
| 17 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 18 | Aluminum Threshold |
| 19 | Notched Brick to Accommodate Relieving Angle |
| 20 | Compression pad |
| 21 | Sealant Stop Drip Edge Type Flashing |
| 22 | Sealant to Match Mortar |
| 23 | Masonry Anchor @ 16" O.C. Maximum |
| 24 | 2 1/2" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 25 | Deflection Head |
| 26 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 27 | Wrap Air Barrier Over Sub Jamb/Head/Sill. Transition Air Barrier As Required By Air Barrier Manufacturer |
| 28 | EPDM Boot Sealed To Sheet Metal Chemical Compatibility Separation Strip, Sealed To Roof Membrane |
| 29 | 2" Rigid Insulation, Minimum R-5 per Inch. |
| 30 | 6" XPS Rigid Insulation (3 Layers of 2" With Staggered Joints) Provides Slots in Base Layer. |
| 31 | 3 5/8" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 32 | 24" Square Concrete Pavers on Pedestals |
| 33 | Wrap Waterproofing Up Wall, Lap Over Blocking/Curb, And Seal To Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Air Barrier |
| 34 | Brake Metal Closure Panel by Storefront Contractor to Match Storefront System |
| 35 | Cold Fluid Applied Waterproofing Membrane |
| 36 | Seal Air Barrier to Sheet Metal Chemical Compatibility Strip Which Is Sealed To Water Proof Membrane |
| 37 | Composite Metal Deck refer To Structural |
| 38 | 3 5/8" Metal Studs @ 24" O.C. ( 22 Gage Min.) |
| 39 | 5/8" Gypsum Board On Metal Stud Framing |
| 40 | 1 5/8" Metal Stud Framing |
| 41 | Break Metal Angle/Piece For Stud Framing Continuity |
| 42 | 1 Layer 5/8" Gypsum Board |
| 43 | Interior Glazed Aluminum Curtain Wall System |
| 44 | Glazed Aluminum Framed Curtain Walls |
| 45 | Wrap Air Barrier to 1" From Leading Edge of Relieving Angle |
| 46 | Set Flashing In Bed of Sealant to Seal to Complete Seal to Air Barrier/Waterproof Membrane |
| 47 | Concrete Cricket Sloped To Fall towards Roof Drain Location |
| 48 | Root Barrier |
| 49 | Seal Threshold to Flashing to Complete Seal to Air Barrier/Waterproof Membrane |
| 50 | Aluminum Framed Storefront System |
| 51 | 3/4" Treated Plywood |
| 52 | Seal Threshold to Air Barrier/Waterproofing |
| 53 | Glazed Aluminum Framed Curtain Wall System |
| 54 | Light Fixture refer to Electrical Drawings |
| 55 | 5/8" Gypsum Board |
| 56 | EPDM Boot Glazed Into Curtain Wall and Sealed to Sheet Metal Chemical Compatibility Separation Strip |
| 57 | Prefinished 22 Gage Counterflashing |
| 58 | Seal Storefront System to Flashing |
| 59 | Apply Waterproofing To Foundation Wall. Wrap Down And Lap Over Footing A Minimum Of 12". Cover With Drainage Board |
| 60 | Mortar Setting Bed |
| 61 | Carpet |
| 62 | 1/2" Adhered Brick, Refer to Elevations for Color and Pattern. |
| 63 | Vapor Retarder |
| 64 | Air Barrier Joint Reinforcement Strip |
| 65 | Stainless Steel drip edge |
| 66 | 2X3 Break Metal Angle for Protection Panel Support |
| 67 | Dowel in Exterior Concrete Slab |
| 68 | 0.010" Prefinished Aluminum Protection Panel Backer Panel Butt Seam With Backup Plate Fastened On One Side. |
| 69 | Reinforced Concrete Wall refer to Structural |
| 70 | Fill Area Indicated With Closed Cell Spray Foam Insulation (R6.2 Minimum Per Inch) 4" Minimum Total Thickness. R 24.8 Total |
| 71 | Steel Brace Member, Refer To Structural Drawings |
| 72 | Paint Exposed Steel Member, Typical |
| 73 | Steel Column refer to Structural |
| 74 | 7 1/2" Conventionally Glazed Aluminum Curtainwall System |
| 75 | 1/2" Glass Mat Backer Board |
| 76 | Architecturally Exposed Structural Steel Framing |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

| | |
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| Civil: | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedrzewski Designs - 801.582.9747 |

STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT


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SHEET DATA

Drawn By: Eric
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

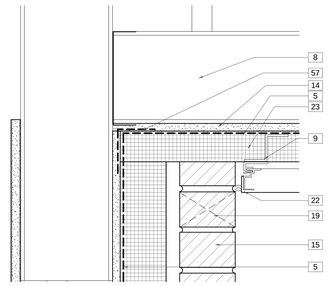
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

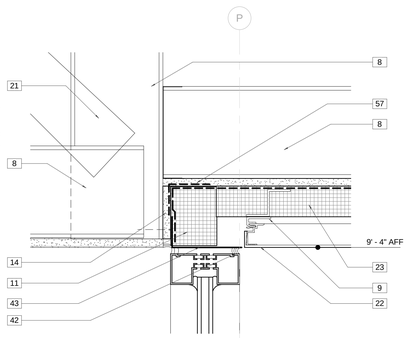
Construction Documents

Envelope Details

AE5-93




E2 Section 97 - Callout 1
3" = 1'-0"




E3 Section 108 - Callout 1
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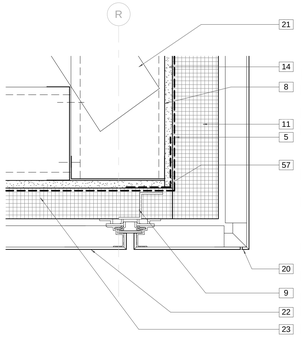


E4 Section 108 - Callout 2
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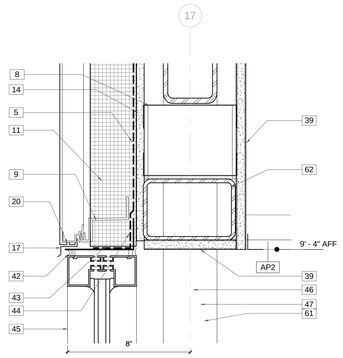


E5 Section 64 - Callout 2
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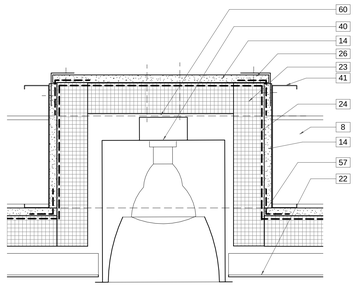


D3 Section 64 - Callout 4
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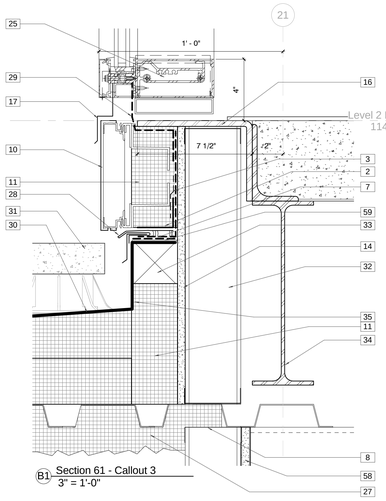


B1 Section 61 - Callout 3
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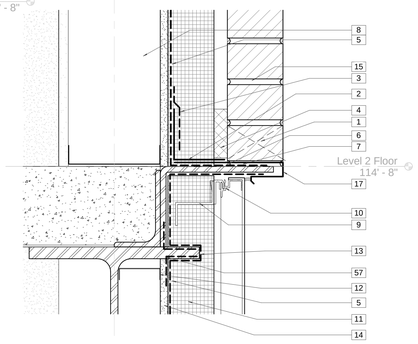
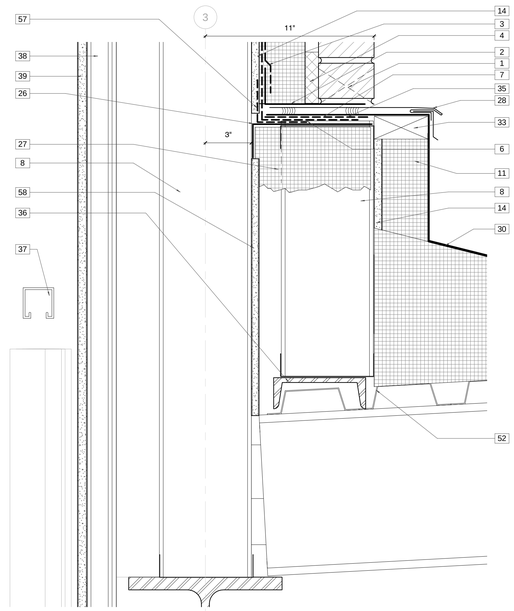
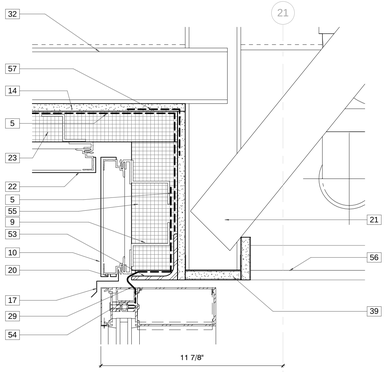



B3 Section 65 - Callout 1
3" = 1'-0"




A2 Section 61 - Callout 4
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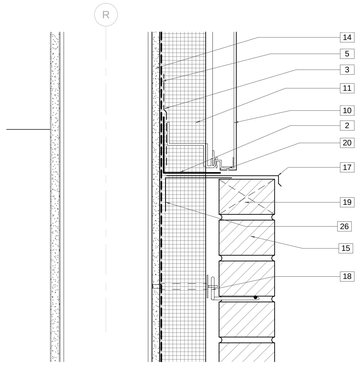


A3 Section 65 - Callout 2
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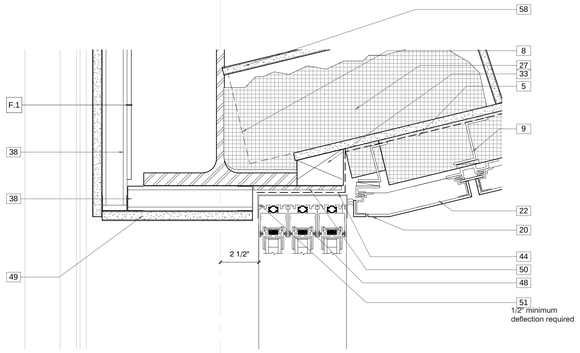


A4 Section 55 - Callout 1
3" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | Weep @24" O.C. |
| 2 | High Temp. Flexible Cavity Seal Bonded To Flashing and Air Barrier |
| 3 | Electrometric Transition Sheet Lapped Over Flashing And Sealed To Fluid Applied Air Barrier. |
| 4 | Cavity Drainage Mat |
| 5 | Vapor Impermeable Fluid Applied Air Barrier |
| 6 | Wrap Air Barrier to 1" From Leading Edge of Relieving Angle |
| 7 | Set Flashing In Bed of Sealant to Seal to Complete Seal to Air Barrier/Waterproof Membrane |
| 8 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 9 | Thermally Broken Bracket |
| 10 | Metal Composite Wall Panel |
| 11 | 3" Rigid Insulation, Minimum R-5 per Inch. |
| 12 | 2 1/2" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 13 | Wrap Air Barrier Over Beam Flanges To Complete Air Tight Envelope, Typical, Where Occurs. Transition Air Barrier As Required By Air Barrier Manufacturer. Notch Insulation as Required. |
| 14 | 1/2" Glass Mat Sheathing |
| 15 | 3 5/8" Brick Veneer Over Cavity Air Space Over 2 Layers 1-1/2" R5 Per Inch Cavity (3" Total, R15 Total) Insulation With Overlapping, Taped Joints Over Fluid Applied Air Barrier Over 1/2" Glass Mat Sheathing Over 6" Structural Studs |
| 16 | Continuous Galvanized Relieving Angle. Weld And Grind All Corners And Joints Smooth For Continuous, Air Impervious Substrate. See Sections For Horizontal Leg Dimensions. |
| 17 | Prefinished 22 Gage Flashing |
| 18 | Masonry Anchor @ 16" O.C. Maximum |
| 19 | Vent @ 24" O.C. |
| 20 | Integrated Drip |
| 21 | Metal Stud Bracing |
| 22 | Metal Composite Soffit Panels |
| 23 | 2" Rigid Insulation, Minimum R-5 per Inch. |
| 24 | Apply Air Barrier To All Interior Surfaces Of Metal Stud And Sheathing "Tent" Assembly To Complete Air Barrier Continuity With Adjacent Soffit Assembly. |
| 25 | Glazed Aluminum Framed Curtain Wall System |
| 26 | Brake Metal Angle for Metal Stud Support |
| 27 | Fill Area Indicated With Closed Cell Spray Foam Insulation (R6.2 Minimum Per Inch) 4" Minimum Total Thickness. R 24.8 Total |
| 28 | Prefinished 22 Gage Counterflashing |
| 29 | EPDM Boot Sealed To Air Barrier and Glazed Into Curtain Wall System |
| 30 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 31 | 24" Square Concrete Pavers on Pedestals |
| 32 | 3 5/8" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 33 | Treated Wood Nailer |
| 34 | Steel Beam refer to Structural |
| 35 | Wrap TPO Membrane Up Curb and Seal To Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Air Barrier |
| 36 | Steel Channel Section. See Structural |
| 37 | Stage Curtain and Track. Furnished By Owner, Installed By Contractor |
| 38 | 1 5/8" Metal Stud Framing |
| 39 | 1 Layer 5/8" Gypsum Board |
| 40 | Recessed Light Fixture, refer to Electrical Drawings |
| 41 | 8" Structural Stud, Gage And Spacing As Required To Comply With Performance Criteria. |
| 42 | Seal Storefront Frame to Sub Frame |
| 43 | Prefabricated, Galvanized Subframe with Welded Corners. Fabricate From 2"X 4.5"X 1/8" Angle. Attach To Metal Stud Framing With #10 Screws at 8" O.C. |
| 44 | Wrap Air Barrier Over Sub Jamb/Head/Sill. Transition Air Barrier As Required By Air Barrier Manufacturer |
| 45 | Aluminum Framed Storefront System |
| 46 | Steel Brace Member, Refer To Structural Drawings |
| 47 | Paint Exposed Steel Member, Typical |
| 48 | Sliding Aluminum-Framed Glass Doors |
| 49 | 5/8" Gypsum Board On Metal Stud Framing |
| 50 | 1/4" X 6" X Continuous Galvanized Plate Welded To Wide Flange For Door Head Support |
| 51 | Door Head Deflection Track |
| 52 | Metal Roof Deck Refer to Structural |
| 53 | Galvanized L 3X3x1/4" X Continuous |
| 54 | 7 1/2" Conventionally Glazed Aluminum Curtainwall System |
| 55 | 2 Layers 1-1/2" R-5 Per Inch Cavity Insulation With Overlapping, Taped Joints. Total 3" Thickness and R15 |
| 56 | Suspended ACT Ceiling-See Ceiling Plan For Tile Size |
| 57 | Air Barrier Joint Reinforcement Strip |
| 58 | 1/2" Gyp Board To Enclose Insulation |
| 59 | Lap Air Barrier Over Parapet and Seal to Sheet Metal Chemical Compatibility Strip Which Is Sealed To Roof Membrane |
| 60 | Install Fixture With Offset Screws To Ensure J-Box Is Outside Of Envelope And Insulation. Provide Class A-Foil Between Fixture And Insulation. Seal All Conduit Penetrations Through Air Barrier. |
| 61 | Architecturally Exposed Structural Steel Framing |
| 62 | HSS refer to Structural Drawings. |


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Salt Lake City
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801 363 1434
Project Number: 2014-07


### CONSULTANTS

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| Structural: | TBSE Inc. - 801.298.8795 |
| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
| Landscape: | Landmark Design - 801.474.3300 |
| Food Service: | Jedziewski Designs - 801.582.9747 |

### STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
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### SHEET DATA

Drawn By: Eric
Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

### ADDENDA

| Revision | Date |
|---|---|

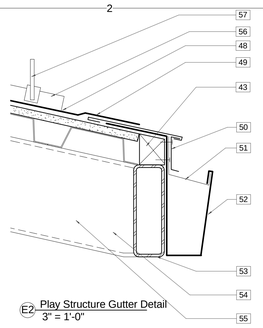
### ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

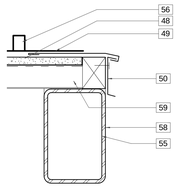
Construction Documents

Envelope Details

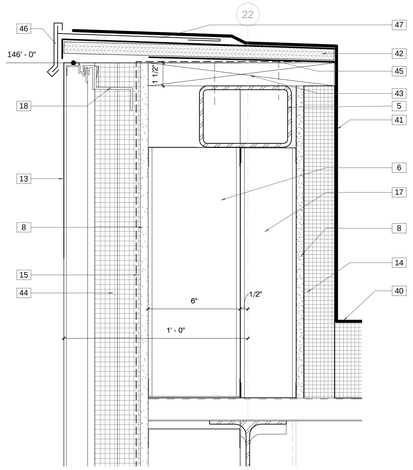
AE5-94



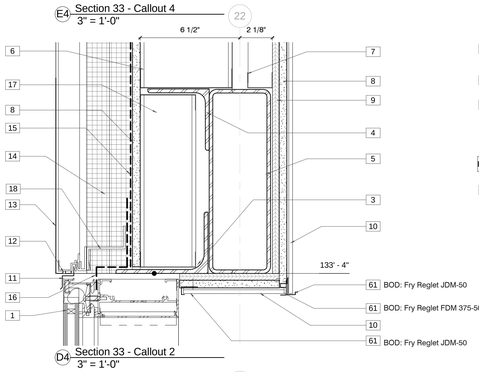

E2 Play Structure Gutter Detail
3" = 1'-0"



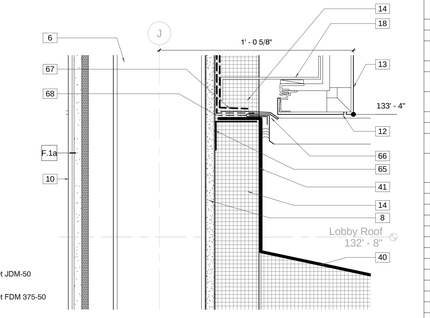

E3 Play Structure Gable End Detail
3" = 1'-0"



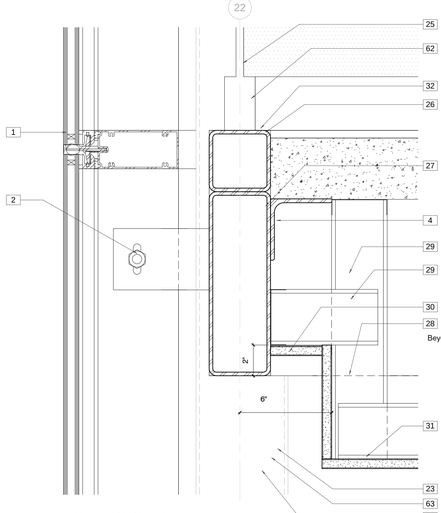

E4 Section 33 - Callout 4
3" = 1'-0"



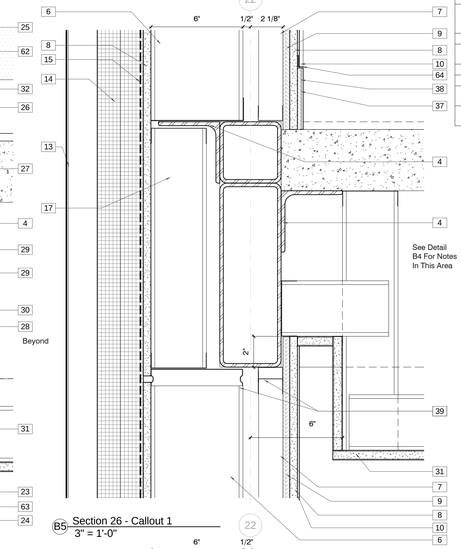

D4 Section 33 - Callout 2
3" = 1'-0"



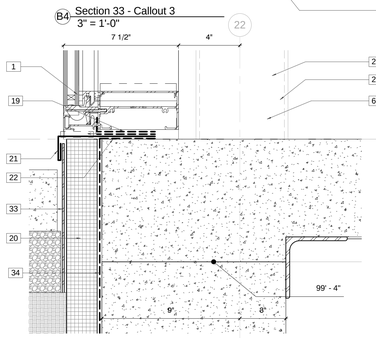

D5 Section 76 - Callout 3
3" = 1'-0"



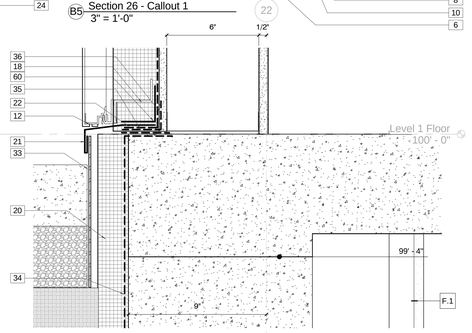

B4 Section 33 - Callout 3
3" = 1'-0"




B5 Section 26 - Callout 1
3" = 1'-0"




A4 Section 33 - Callout 5
3" = 1'-0"




A5 Section 26 - Callout 3
3" = 1'-0"

## Keynote Legend

| | |
|---|---|
| 1 | 4-Sided Structurally Glazed Aluminum Curtainwall System |
| 2 | Pair Of Painted Steel Plates Welded To Adjacent Beam To Accommodate Vertical Deflection, And To Resist Horizontal Movement. Designed and Installed By Curtain Wall Contractor |
| 3 | Galvanized 6X4 Angle - See Structural |
| 4 | L 4" X 4" x 1/4" |
| 5 | HSS refer to Structural Drawings. |
| 6 | 6" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 7 | 1 5/8" Metal Stud Framing |
| 8 | 1/2" Glass Mat Sheathing |
| 9 | 7/16" Plywood Sheathing |
| 10 | 1/4" Spandrel Glass Adhered To Substrate. Polish All Exposed Edges |
| 11 | Prefinished 22 Gage Flashing |
| 12 | Integrated Drip |
| 13 | Metal Composite Wall Panel |
| 14 | 3" Rigid Insulation, Minimum R-5 per Inch. |
| 15 | Vapor Impermeable Fluid Applied Air Barrier |
| 16 | EPDM Boot Sealed To Air Barrier and Glazed Into Curtain Wall System |
| 17 | 3 5/8" Structural Studs, Gage and Spacing, As Required To Comply With Performance Criteria |
| 18 | Thermally Broken Bracket |
| 19 | EPDM Boot Glazed Into Curtain Wall and Sealed to Sheet Metal Chemical Compatibility Separation Strip |
| 20 | 2" Rigid R10 Foundation Insulation |
| 21 | Stainless Steel drip edge |
| 22 | Set Flashing In Bed of Sealant to Seal to Complete Seal to Air Barrier/Waterproof Membrane |
| 23 | Paint Exposed Steel Member, Typical |
| 24 | Steel Column refer to Structural |
| 25 | Cantilevered, Laminated, Tempered, Frosted Glass Assembly |
| 26 | HSS 4" x 4" x 1/4" |
| 27 | HSS 12" x 4" x 1/4" |
| 28 | HSS 16" x 4" x 1/4" |
| 29 | 3 5/8" Metal Studs @ 24" O.C. ( 22 Gage Min.) |
| 30 | 5/8" Gypsum Board |
| 31 | 5/8" Gypsum Board On Metal Stud Framing |
| 32 | Paint all steel stair framing members. |
| 33 | 0.010" Prefinished Aluminum Protection Panel. Extend A Minimum of 3" Below Finish Grade |
| 34 | Drainage Board Over Cold Fluid Applied Waterproofing. Wrap Waterproofing Down And Lap Over Footing A Minimum Of 12". |
| 35 | Wrap Waterproofing Up Wall, Lap Over Blocking/Curb, And Seal To Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Air Barrier |
| 36 | Air Barrier Joint Reinforcement Strip |
| 37 | 1/4" Treated Plywood |
| 38 | 4" Straight Base. Color To Be Selected By Architect From Full Range Of Colors. |
| 39 | Deflection Head Track For 1" Of Vertical Deflection, Typical |
| 40 | TPO Membrane Over Base Layer Of Insulation (5" Average Thickness) With Minimum LTTR 30 Maximum. |
| 41 | Wrap TPO Membrane Up Curb and Seal To Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Air Barrier |
| 42 | 3/4" Treated Plywood |
| 43 | Treated Wood Nailer |
| 44 | 2 Layers 1-1/2" R-5 Per Inch Cavity Insulation With Overlapping, Taped Joints. Total 3" Thickness and R15 |
| 45 | Wrap Air Barrier Up Over Parapet Blocking And Seal to Sheet Metal Chemical Compatibility Separation Strip, Which Is Sealed To Roof Membrane |
| 46 | 22 Gage Prefinished Clip-On Fascia Trim |
| 47 | TPO Membrane Sealed To Pre-Coated Flashing |
| 48 | KEE Membrane Over 1/4" Cover Board Over Roof Deck |
| 49 | KEE Membrane Sealed To Pre-Coated Flashing |
| 50 | Prefinished D Style Drip Edge |
| 51 | Prefinished Rain gutter Strap At 24" O.C. |
| 52 | 18 Gage Prefinished Rain gutter |
| 53 | HSS 6X2 See Structural |
| 54 | Structural Steel Framing, Refer To Structural Drawings |
| 55 | High Performance Coating on Galvanized Steel |
| 56 | Adhered Simulated Standing Seam |
| 57 | Snow Guard |
| 58 | Steel Beam refer to Structural |
| 59 | Metal Roof Deck Refer to Structural |
| 60 | High Temp. Flexible Cavity Seal Bonded To Flashing and Air Barrier |
| 61 | Provided Continuous Aluminum Profiled Return Edge Support Angle As Indicated |
| 62 | Cast Aluminum Support Shoe With 1/2" Plate Welded To Top Of Stringer As Required By Decorative Metal Railing Manufacturer For Glass Assembly. Enclose With Stainless Steel Cladding. |
| 63 | Architecturaly Exposed Structural Steel Framing |
| 64 | Provide 2" X 5/16" X 1/8" Thick Continuous Aluminum Angle Anchored to Wall Studs to support Glass. |
| 65 | Brake Metal Angle for Metal Stud Support |
| 66 | Prefinished 22 Gage Counterflashing |
| 67 | Electrometric Transition Sheet Lapped Over Flashing And Sealed To Fluid Applied Air Barrier. |
| 68 | Seal Air Barrier to Sheet Metal Chemical Compatibility Strip Which Is Sealed To Water Proof Membrane |


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


### CONSULTANTS

| | |
|---|---|
| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrzewski Designs - 801.582.9747 |

### STAMP

STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT

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### SHEET DATA

Drawn By: Eric

Checked By: Checker

### PROJECT

State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

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### ISSUE/PHASE

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| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Envelope Details

AE5-95

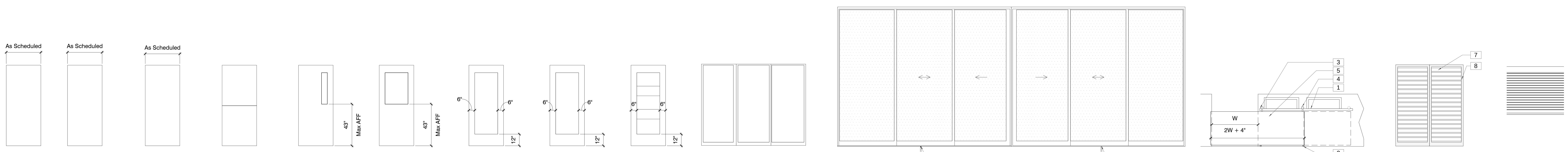
## Door Schedule

| Number | From | To | Door Width | Door Height | Door Thick | Door Material | Door Finish | Door Color | Door Type | Fire Rating | HDW | Frame Type | Frame Material | Frame Finish | Jamb | Jamb 2 | Head | Sill | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A001 | A000 | A001 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | | 26 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A002 | A000 | A000 | 3' - 0" | 7' - 0" | 1 3/4" | HM | Paint | | 1 | | 08 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A003 | A003 | A003 | 3' - 0" | 7' - 0" | 1 3/4" | HM | Paint | | 1 | | 08 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A100.1 | A100 | | 6' - 0" | 7' - 10" | 2" | Aluminum | HP Organic | Red | 8 | | J | 26 | Aluminum | HP Organic | E4/AE5-83 | | | A1/AE5-93 | DPS , 12" Threshold |
| A100.2 | A100 | | 6' - 0" | 8' - 0" | 2" | Aluminum | HP Organic | Red | 8 | | J | 35 | Aluminum | HP Organic | E4/AE5-83 | | | A1/AE5-93 | DPS , 12" Threshold |
| A100.3 | B108 | B108 | 3' - 0" | 7' - 0" | 1 3/4" | HM | Paint | | 1 | | 13 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | CR |
| A100.4 | A150 | A150 | 3' - 0" | 7' - 0" | 1 3/4" | HM | Paint | | 1 | | 13 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | CR |
| A100.5 | A106 | | 6' - 0" | 7' - 10" | 1 3/4" | HM Gal/Ins | HP Paint | | 2 | | 02 | D | HM Gal/Ins | HP Paint | B2/AE5-21 | | B1/AE5-21 | B3/AE5-21 | DPS, CR 16" Threshold |
| A100a.2 | | | 4' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 2 | | 01 | NA | NA | NA | | | | | Barn Door |
| A100a.3 | | | 4' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 2 | | 01 | NA | NA | NA | | | | | Barn Door |
| A101 | FD-368 | A101 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 36 | J | HM | Paint | D2/AE5-21 | | D1/AE5-21 | | Pocket door |
| A102 | A102 | FD-368 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 36 | J | HM | Paint | D2/AE5-21 | | D1/AE5-21 | | Pocket door |
| A103.1 | B108 | A103 | 6' - 0" | 9' - 4" | 2" | Aluminum | HP Organic | | 8 | | B | 18 | Aluminum | HP Organic | | | | | PB |
| A103.2 | A103 | | 6' - 0" | 9' - 4" | 2" | Aluminum | HP Organic | | 8 | | C | 19 | Aluminum | HP Organic | A1/AE5-21 | | | A3/AE5-93 | CR,DPS ,PB, 13" Threshold |
| A104.1 | A104 | A150 | 6' - 0" | 9' - 4" | 2" | Aluminum | HP Organic | | 8 | | B | 16 | Aluminum | HP Organic | | | | | PB, |
| A104.2 | | A104 | 6' - 0" | 9' - 4" | 2" | Aluminum | HP Organic | | 8 | | A | 17 | Aluminum | HP Organic | A1/AE5-21 | | | A3/AE5-93 | CR,DPS ,PB, 12" Threshold |
| A106.1 | B108 | A171 | 6' - 2" | 8' - 0" | 2" | Aluminum | HP Organic | | 8 | | D | 41 | Aluminum | HP Organic | | | | | Aluminum Curtainwall Frame |
| A106.2 | A106a | A100 | 6' - 0" | 8' - 0" | 2" | Aluminum | HP Organic | | 8 | | D | 37 | Aluminum | HP Organic | | | | | Aluminum Curtainwall Frame |
| A106.3 | A106 | | 6' - 0" | 7' - 10" | 1 3/4" | HM Gal/Ins | HP Paint | | 2 | | 02 | D | HM Gal/Ins | HP Paint | B2/AE5-21 | | B1/AE5-21 | B3/AE5-21 | DPS, CR 6" Threshold |
| A111 | A111 | A110 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A112 | A110 | A112 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A113 | A113 | A110 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A114 | A110 | A114 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 29 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A115 | A110 | A115 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | E | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A115a | A115a | A115 | 2' - 6" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 28 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A121.1 | B108 | A121 | 3' - 6" | 7' - 0" | 1 3/4" | Wood | Natural | | 7 | | 20 | E | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A121.2 | A121 | | 3' - 0" | 7' - 0" | 2" | Aluminum | HP Organic | | 8 | | E | 28 | Aluminum | HP Organic | B1/AE5-91 | | | A1/AE5-93 | DPS, Aluminum Storefront |
| A121.3 | A121 | | 3' - 6" | 7' - 0" | 1 3/4" | HM Gal/Ins | HP Paint | | 2 | | 04 | C | HM Gal/Ins | HP Paint | B2/AE5-21 | | B1/AE5-21 | B3/AE5-21 | DPS, CR 16" Threshold |
| A121a | A121d | A121 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 3 | | 15 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | NO CLOSER |
| A121a.1 | A220 | A220 | 5' - 0" | 7' - 0" | 1/2" | Aluminum | HP Paint | | 14 | | F | Included | Aluminum | HP Paint | | | | | Overhead rolling counter door |
| A121b.1 | A121b | A121 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 3 | | 28 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A121b.2 | A121b | | 3' - 0" | 7' - 0" | 1 3/4" | HM Gal/Ins | HP Paint | | 2 | | 05 | C | HM Gal/Ins | HP Paint | B2/AE5-21 | | B1/AE5-21 | B3/AE5-21 | DPS 16" Threshold |
| A121c | A121 | A121c | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 3 | | 19 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A131 | A131 | A106a | 8' - 0" | 8' - 0" | 1 1/2" | Aluminum | HP Organic | Red | 10 | | F | Self Framed | Aluminum | HP Organic | C2/AE5-21 | C3/AE5-21 | C1/AE5-21 | C4/AE5-21 | Sliding Mall Front |
| A132 | A132 | A106a | 8' - 0" | 8' - 0" | 1 1/2" | Aluminum | HP Organic | Red | 10 | | F | Self Framed | Aluminum | HP Organic | C2/AE5-21 | C3/AE5-21 | C1/AE5-21 | C4/AE5-21 | Sliding Mall Front |
| A133 | A106a | A133 | 8' - 0" | 8' - 0" | 1 1/2" | Aluminum | HP Organic | Red | 10 | | F | Self Framed | Aluminum | HP Organic | C2/AE5-21 | C3/AE5-21 | C1/AE5-21 | C4/AE5-21 | Sliding Mall Front |
| A134 | A106a | A134 | 8' - 0" | 8' - 0" | 1 1/2" | Aluminum | HP Organic | Red | 10 | | F | Self Framed | Aluminum | HP Organic | C2/AE5-21 | C3/AE5-21 | C1/AE5-21 | C4/AE5-21 | Sliding Mall Front |
| A141 | A140 | A141 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A142 | A140 | A142 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A143 | A140 | A143 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A144 | A140 | A144 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 29 | G | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A145 | A140 | A145 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 29 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A146 | A140 | A146 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 29 | G | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A151 | A150 | A151 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 26 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A152 | A150 | A152 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 30 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A153 | A150 | A153 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 30 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A161.1 | E213 | A150 | 6' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 33 | B | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A161.2 | A161 | | 15' - 0" | 12' - 0" | 5 23/32" | Aluminum | HP Organic | | 11 | | F | Self Framed | Aluminum | HP Organic | B4/AE5-21 | | A3/AE5-94 | A4/AE5-21 | Sliding Stage Door, Door Position Switch |
| A161a | A161 | A161a | 3' - 0" | 7' - 0" | 1 3/4" | HM | Paint | | 3 | 45 Min | 15 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A161b.1 | A161b | A161 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | 45 Min | 19 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A161b.2 | A161b | A161 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | 45 Min | 21 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A172 | A172 | A171 | 3' - 0" | 7' - 10" | 1 3/4" | Wood | Laminate | | 3 | | 14 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A174 | A174 | A106 | 6' - 0" | 8' - 0" | 1 3/4" | HM | Paint | | 3 | | 18 | B | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A175 | A175a | A106 | 6' - 0" | 8' - 0" | 1 3/4" | HM | Paint | | 3 | | 18 | B | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A176 | A106 | A176 | 6' - 0" | 8' - 0" | 1 3/4" | HM | Paint | | 3 | | 18 | B | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A177 | A177 | | 3' - 0" | 7' - 10" | 1 3/4" | Wood | Laminate | | 3 | | 14 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A201.1 | | | 4' - 0" | 3' - 0" | 1 3/4" | Wood | Paint | | 3 | | 10 | O.1 | Millwork | NA | D4/AE5-21 | | | | Custom Swinging Gate |
| A201.2 | | | 8' - 0" | 3' - 0" | 1 3/4" | Wood | Paint | | 12 | | 01 | NA | NA | NA | D4/AE5-21 | | | | Custom Cantilevered Gate |
| A201.3 | | | 8' - 0" | 3' - 0" | 1 3/4" | Wood | Paint | | 12 | | 01 | NA | NA | NA | D4/AE5-21 | | | | Custom Cantilevered Gate |
| A201.4 | | | 8' - 0" | 3' - 0" | 1 3/4" | Wood | Paint | | 12 | | 01 | NA | NA | NA | D4/AE5-21 | | | | Custom Cantilevered Gate |
| A201.5 | | | 8' - 0" | 3' - 0" | 1 3/4" | Wood | Paint | | 12 | | 01 | NA | NA | NA | D4/AE5-21 | | | | Custom Cantilevered Gate |
| A201.6 | | | 4' - 0" | 3' - 0" | 1 3/4" | Wood | Paint | | 3 | | 10 | O.1 | Millwork | NA | D4/AE5-21 | | | | Custom Swinging Gate |
| A211 | A260 | A211 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | E | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A212 | A260 | A212 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A213 | A260 | A213 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A214 | A260 | A214 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A215 | A260 | A215 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A216 | A260 | A216 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A222 | A220 | A222 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 29 | G | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A223 | A220 | A223 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A224 | A220 | A224 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A225 | A225 | A220 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | E | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A226 | A220 | A226 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 32 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | Finger Guard |
| A226a | | A226 | 4' - 6" | 10' - 0" | 1 3/4" | | Paint | | | | 11 | | None | | | | | | Pocket Door and Hardware by Folding Partition MFR |
| A227 | A227 | A226a | 6' - 0 3/32" | 7' - 10" | 2" | Aluminum | HP Organic | | 8 | | G | 39 | Aluminum | HP Organic | C4/AE5-82 | | | D2/AE5-93 | DPS, Storefront, 16" Threshold |
| A240 | A260 | A240 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A241 | A260 | A241 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A242 | A260 | A242 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 29 | H | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A245 | A245 | A260 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 12 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | CR |
| A245a | A245a | A245 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 21 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A245b | A245 | A245b | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 19 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A245c | A245c | A245 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 29 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A245d | A245d | A245 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 29 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A245f | A245f | A245d | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 29 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A251 | A250 | A251 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A252 | A250 | A252 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 15 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| A300 | | | 3' - 0" | 7' - 0" | 1 3/4" | HM Gal/Ins | HP Paint | | 2 | | 06 | C | HM Gal/Ins | HP Paint | B2/AE5-21 | | B1/AE5-21 | B3/AE5-21 | CR,DPS, 16" Threshold |
| B100.1 | A110 | B100 | 3' - 3" | 7' - 10 1/4" | 1 3/4" | Aluminum | HP Organic | | 8 | | H | 5 | Aluminum | HP Organic | E4/AE5-83 | | | | Finger Guard |
| B100.2 | | B100 | 6' - 2" | 8' - 0" | 2" | Aluminum | HP Organic | Red | 8 | | J | 22 | Aluminum | HP Organic | E4/AE5-83 | | | A1/AE5-93 | DPS, Finger Guards, 12" Threshold |
| B100.3 | | B100 | 6' - 2" | 8' - 0" | 2" | Aluminum | HP Organic | Red | 8 | | J | 22 | Aluminum | HP Organic | E4/AE5-83 | | | A1/AE5-93 | DPS, Finger Guards, 12" Threshold |
| B100.4 | | B100 | 6' - 2" | 8' - 0" | 2" | Aluminum | HP Organic | Red | 8 | | J | 22 | Aluminum | HP Organic | E4/AE5-83 | | | A1/AE5-93 | DPS, Finger Guards ,12" Threshold |
| B101.1 | B100 | B101 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 34 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| B101.2 | B101 | | 3' - 0" | 7' - 0" | 2" | Aluminum | HP Organic | Red | 9 | | K | 31 | Aluminum | HP Organic | B4/AE5-91 | | | C4/AE5-93 | DPS, Finger Guard, 12" Threshold |
| B101a | B101a | B101 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 5 | | 16 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | Finger Guard |
| B101b.1 | B101b | B101 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | | 37 | J | HM | Paint | D2/AE5-21 | | D1/AE5-21 | | Pocket door |
| B101b.2 | B101b | B102 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | | 37 | J | HM | Paint | D2/AE5-21 | | D1/AE5-21 | | Pocket door |

## Door Schedule

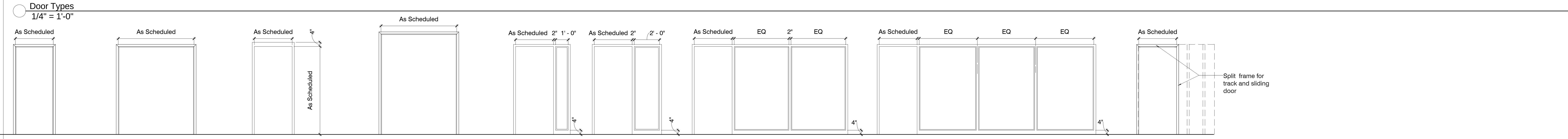
| Number | From | To | Door Width | Door Height | Door Thick | Door Material | Door Finish | Door Color | Door Type | Fire Rating | HDW | Frame Type | Frame Material | Frame Finish | Jamb | Jamb 2 | Head | Sill | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B102.1 | B100 | B102 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 34 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| B102.3 | | B102 | 3' - 0" | 7' - 0" | 2" | Aluminum | HP Organic | Red | 9 | | K | 30 | Aluminum | HP Organic | B4/AE5-91 | | | C4/AE5-93 | DPS, Finger Guard, 12" Threshold |
| B102a.1 | B102a | B102 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 5 | | 16 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | Finger Guard |
| B102a.2 | B103 | B102a | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 5 | | 16 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | Finger Guard |
| B103.1 | B100 | B103 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 34 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| B103.3 | | B103 | 3' - 0" | 7' - 0" | 2" | Aluminum | HP Organic | Red | 9 | | K | 19 | Aluminum | HP Organic | B4/AE5-91 | | | C4/AE5-93 | DPS, Finger Guard, 12" Threshold |
| B103a.1 | B103a | B103 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | | 37 | J | HM | Paint | D2/AE5-21 | | D1/AE5-21 | | Pocket door |
| B103a.2 | B103a | B104 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | | 37 | J | HM | Paint | D2/AE5-21 | | D1/AE5-21 | | Pocket door |
| B104.1 | B100 | B104 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 34 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| B104.3 | | B104 | 3' - 0" | 7' - 0" | 2" | Aluminum | HP Organic | Red | 9 | | K | 19 | Aluminum | HP Organic | B4/AE5-91 | | | C4/AE5-93 | DPS, Finger Guard, 12" Threshold |
| B105.1 | B104 | B105 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 5 | | 16 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | Finger Guard |
| B105.2 | B100 | B105 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 5 | | 16 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | Finger Guard |
| B106.1 | B100 | B106 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 34 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| B106.2 | B106 | | 3' - 0" | 7' - 0" | 2" | Aluminum | HP Organic | Red | 9 | | K | 19 | Aluminum | HP Organic | B4/AE5-91 | | | C4/AE5-93 | DPS, Finger Guard, 12" Threshold |
| B106a | B106 | B106a | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | | 37 | J | HM | Paint | D2/AE5-21 | | D1/AE5-21 | | Pocket door |
| B107 | B100 | B107 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 3 | | 17 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| C001 | A000 | C001 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | | 22 | F | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| C002 | A000 | C002 | 6' - 0" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | | 18 | B | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| C251 | A250 | C251 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 25 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| D100.1 | A140 | D100 | 3' - 0" | 8' - 0" | 1 3/4" | Aluminum | HP Organic | | 8 | | H | 15 | Aluminum | HP Organic | E4/AE5-83 | | | | Finger Guard |
| D100.2 | D100 | | 6' - 0" | 8' - 0" | 2" | Aluminum | HP Organic | Red | 8 | | J | 32 | Aluminum | HP Organic | E4/AE5-83 | | | A1/AE5-93 | DPS, Finger Guards, 12" Threshold |
| D100.3 | D100 | | 6' - 2" | 8' - 0" | 2" | Aluminum | HP Organic | Red | 8 | | J | 22 | Aluminum | HP Organic | E4/AE5-83 | | | A1/AE5-93 | DPS, Finger Guards, 12" Threshold |
| D100.4 | D100 | | 6' - 2" | 8' - 0" | 2" | Aluminum | HP Organic | Red | 8 | | J | 22 | Aluminum | HP Organic | E4/AE5-83 | | | A1/AE5-93 | DPS, Finger Guards,12" Threshold |
| D100.5 | D100 | | 3' - 0" | 7' - 0" | 1 3/4" | HM Gal/Ins | HP Paint | Red | 2 | | 03 | C | HM Gal/Ins | HP Paint | B2/AE5-21 | | B1/AE5-21 | B3/AE5-21 | CR,DPS 16" Threshold |
| D101.1 | D101 | D100 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 34 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| D101.3 | | D101 | 3' - 0" | 7' - 0" | 2" | Aluminum | HP Organic | Red | 9 | | K | 20 | Aluminum | HP Organic | B4/AE5-91 | | | C4/AE5-93 | DPS, Finger Guard, 12" Threshold |
| D101a | D101 | D101a | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 17 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| D101b.1 | D101b | D101 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | | 37 | J | HM | Paint | D2/AE5-21 | | D1/AE5-21 | | Pocket door |
| D101b.2 | D101b | D102 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | | 37 | J | HM | Paint | D2/AE5-21 | | D1/AE5-21 | | Pocket door |
| D102.1 | D102 | D100 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 34 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| D102.3 | D102 | | 3' - 0" | 7' - 0" | 2" | Aluminum | HP Organic | Red | 9 | | K | 19 | Aluminum | HP Organic | B4/AE5-91 | | | C4/AE5-93 | DPS, Finger Guard, 12" Threshold |
| D102a | D102 | D102a | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 17 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| D103.1 | D103 | D100 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 34 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| D103.3 | | D103 | 3' - 0" | 7' - 0" | 2" | Aluminum | HP Organic | Red | 9 | | K | 19 | Aluminum | HP Organic | B4/AE5-91 | | | C4/AE5-93 | DPS, Finger Guard, 12" Threshold |
| D103a | D103 | D103a | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 17 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| D103b.1 | D103b | D103 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | | 37 | J | HM | Paint | D2/AE5-21 | | D1/AE5-21 | | Pocket door |
| D103b.2 | D103b | D104 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | | 37 | J | HM | Paint | D2/AE5-21 | | D1/AE5-21 | | Pocket door |
| D104.1 | D104 | D100 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 34 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| D104.3 | D104 | | 3' - 0 3/4" | 7' - 0 1/4" | 2" | Aluminum | HP Organic | Red | 9 | | K | 19 | Aluminum | HP Organic | B4/AE5-91 | | | C4/AE5-93 | DPS, Finger Guard, 12" Threshold |
| D104a | D104a | D104 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 17 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| D105.1 | D105 | D100 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 34 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| D105.3 | | D105 | 3' - 0 3/4" | 7' - 0 1/4" | 2" | Aluminum | HP Organic | Red | 9 | | K | 19 | Aluminum | HP Organic | B4/AE5-91 | | | C4/AE5-93 | DPS, Finger Guard, 12" Threshold |
| D105a | D105 | D105a | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Laminate | | 6 | | 17 | A | HM | Paint | E4/AE5-21 | | E3/AE5-21 | | Finger Guard, Door Seals |
| D105b | D105b | D105 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | | 37 | J | HM | Paint | D2/AE5-21 | | D1/AE5-21 | | Pocket door |
| E001 | A000 | E001 | 3' - 6" | 7' - 0" | 1 3/4" | Wood | Paint | | 3 | 60 Min | 09 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| E002.1 | E002 | A000 | 3' - 0" | 7' - 0" | 1 3/4" | HM | Paint | | 1 | | 31 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| E002.2 | A000 | E002 | 3' - 0" | 7' - 0" | 1 3/4" | HM | Paint | | 1 | | 31 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| E003.1 | E003 | A000 | 3' - 0" | 7' - 0" | 1 3/4" | HM | Paint | | 1 | | 31 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| E003.2 | E003 | F002 | 3' - 0" | 7' - 0" | 1 3/4" | HM | Paint | | 1 | | 31 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| E111 | E111 | A110 | 6' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 27 | B | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| E151 | E151 | A150 | 6' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 27 | B | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| E211 | A260 | E211 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 21 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| E212 | A250 | E212 | 3' - 0" | 7' - 0" | 1 3/4" | HM | Natural | | 3 | | 25 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| F002 | A000 | F002 | 3' - 0" | 7' - 0" | 1 3/4" | HM | Paint | | 1 | | 26 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| F211 | F211 | A260 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 25 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | |
| G111 | G111 | A110 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 24 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | PB |
| G141 | A140 | G141 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 24 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | PB |
| G151 | A150 | G151 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 23 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | Auto Operator |
| G152 | A150 | G152 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 23 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | Auto Operator |
| G211 | G211 | A260 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 23 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | Auto Operator |
| G212 | G212 | A260 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 23 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | Auto Operator |
| G251 | A250 | G251 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 23 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | Auto Operator |
| G252 | A250 | G252 | 3' - 0" | 7' - 0" | 1 3/4" | Wood | Natural | | 3 | | 23 | A | HM | Paint | E2/AE5-21 | | E1/AE5-21 | | Auto Operator |
| H101 | | | 6' - 0" | 7' - 0" | 1 3/4" | Custom Steel Gate | HP Paint | | 13 | | 07 | NA | Steel Fence | HP Paint | | | | | Panic Hardware, Keyed Access, Self Closing Hinges |
| H102 | | | 6' - 0" | 7' - 0" | 1 3/4" | Custom Steel Gate | HP Paint | | 13 | | 07 | NA | Steel Fence | HP Paint | | | | | Panic Hardware, Keyed Access, Self Closing Hinges |
| JMS001 | | | 6' - 0" | 7' - 0" | 1 3/4" | | | | Existing | | 38 | Existing | | | | | | | Card Reader JMS |
| JMS002 | | | 3' - 0" | 7' - 0" | 1 3/4" | | | | Existing | | 38 | Existing | | | | | | | Card Reader JMS |
| JMS003 | | | 6' - 0" | 7' - 0" | 1 3/4" | | | | Existing | | 38 | Existing | | | | | | | Card Reader JMS |
| JMS004 | | | 3' - 0" | 7' - 0" | 1 3/4" | | | | Existing | | 38 | Existing | | | | | | | Card Reader JMS |
| JMS005 | | | 6' - 0" | 7' - 0" | 1 3/4" | | | | Existing | | 38 | Existing | | | | | | | Card Reader JMS |

Grand total: 166




1 Flush Hollow Metal
2 Galvanized and Insulated Hollow Metal
3 Flush Wood
4 Flush Wood - Dutch
5 Flush Wood with Narrow Lite
6 Flush Wood with Half Lite
7 Flush Wood with Full Lite
8 Aluminum Framed Glass
9 Aluminum Framed Glass
10 Mall Front Sliding
11 Exterior Sliding Stage Door
12 Cantilever Slider
13 Courtyard Gate
14 Coiling Counter Door

### Door Types
1/4" = 1'-0"




A Hollow Metal Single Door
B Hollow Metal Double Door
C Galvanized and Insulated Hollow Metal Single Door
D Galvanized and Insulated Hollow Metal Double Door
E HM with Sidelite
F HM with Sidelite
G HM with Sidelites
H HM with Sidelites
J Hollow Metal Pocket Door

| Keynote Legend | |
|---|---|
| 1 | 2" X 1/4" Stainless Steel Bar Track |
| 2 | Floor Mounted "T" Guide |
| 3 | Wheel Stop |
| 4 | Stainless Steel Wheels and Brackets |
| 5 | Custom Cantilevered Wood Sliding Door |
| 6 | Sill Drain. Connect To Building Drain System. Refer To Plumbing Drawings |
| 7 | 2" X 8" IPE WOOD SLATS |
| 8 | 2" X 3" X 1/8" Hss Galvanized Steel Frame With High Performance Coating |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801 363 1434
Project Number: 2014-07


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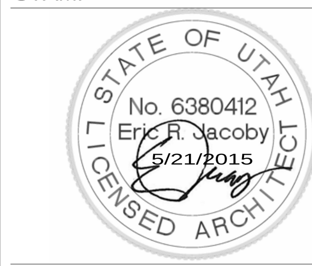
Food Service: - Jedrziewski Designs - 801.582.9747

STAMP





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SHEET DATA

Drawn By: Bob
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018
DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

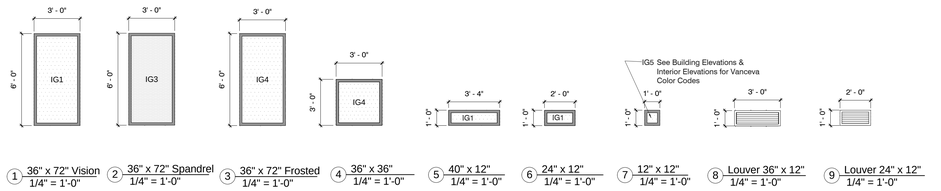
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Door Schedule

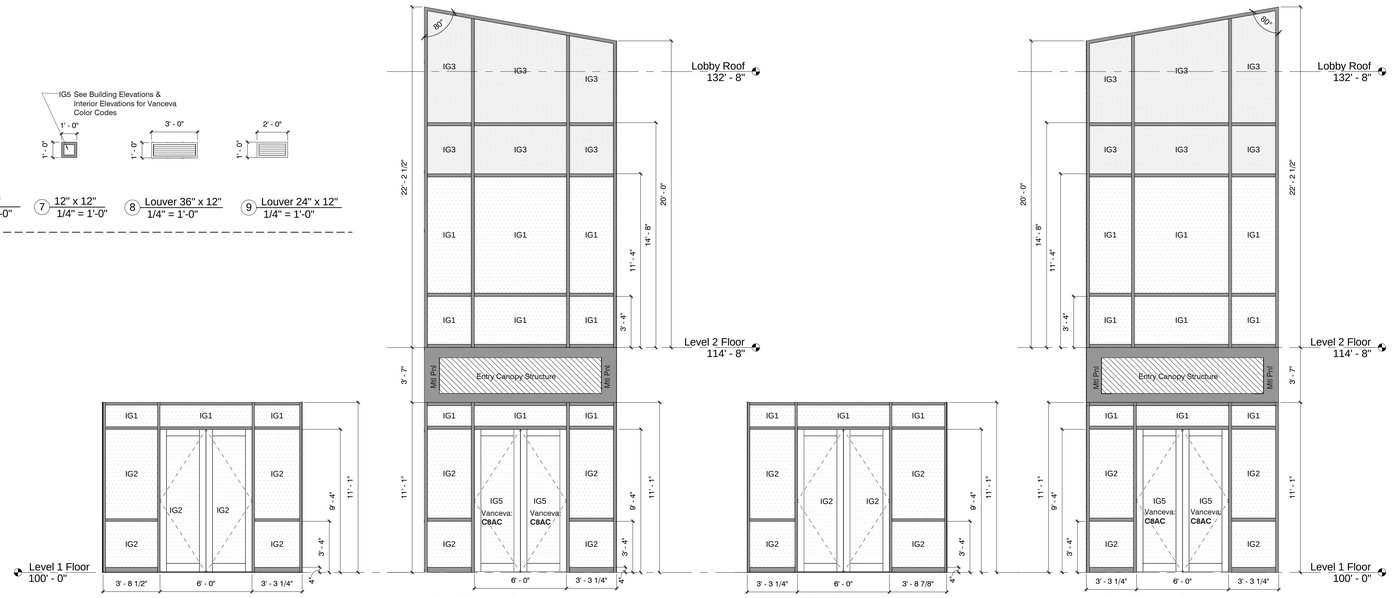
AE6-01




1 36" x 72" Vision 1/4" = 1'-0" | 2 36" x 72" Spandrel 1/4" = 1'-0" | 3 36" x 72" Frosted 1/4" = 1'-0" | 4 36" x 36" 1/4" = 1'-0" | 5 40" x 12" 1/4" = 1'-0" | 6 24" x 12" 1/4" = 1'-0" | 7 12" x 12" 1/4" = 1'-0" | 8 Louver 36" x 12" 1/4" = 1'-0" | 9 Louver 24" x 12" 1/4" = 1'-0"

* Punched Openings to be Aluminum-Framed Storefront System

## Exterior Aluminum Opening Types

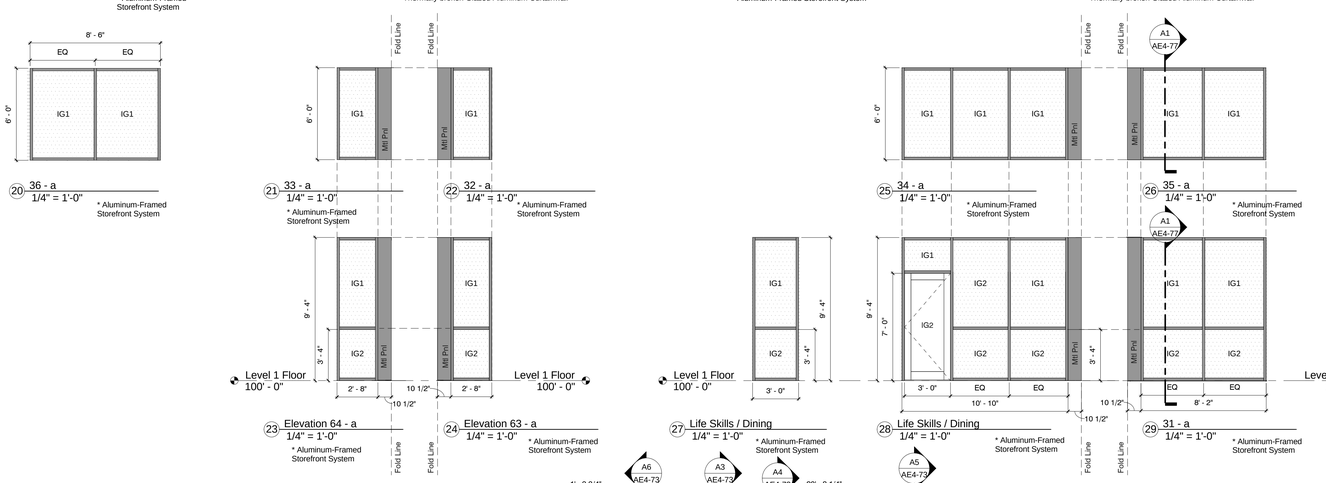



16 South Vestibule Inner 1/4" = 1'-0" * Aluminum-Framed Storefront System

17 South Vestibule Outer 1/4" = 1'-0" * Thermally broken Glazed Aluminum Curtainwall

18 North Vestibule Inner 1/4" = 1'-0" * Aluminum-Framed Storefront System

19 North Vestibule Outer 1/4" = 1'-0" * Thermally broken Glazed Aluminum Curtainwall




20 36 - a 1/4" = 1'-0" * Aluminum-Framed Storefront System

21 33 - a 1/4" = 1'-0" * Aluminum-Framed Storefront System

22 32 - a 1/4" = 1'-0" * Aluminum-Framed Storefront System

25 34 - a 1/4" = 1'-0" * Aluminum-Framed Storefront System

26 35 - a 1/4" = 1'-0" * Aluminum-Framed Storefront System

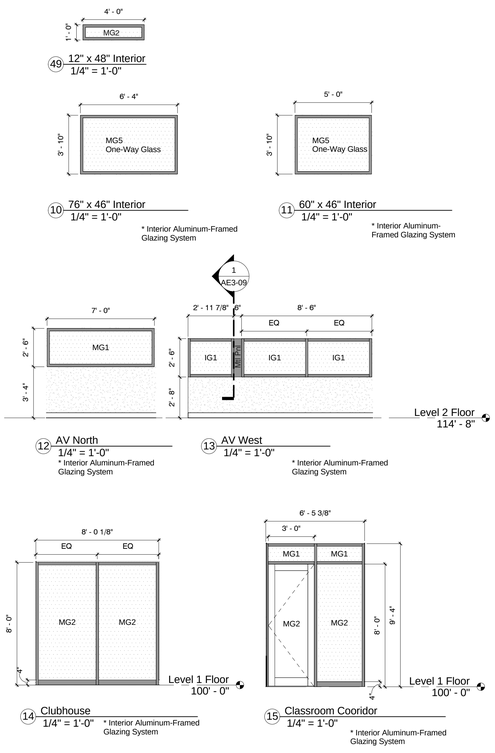
23 Elevation 64 - a 1/4" = 1'-0" * Aluminum-Framed Storefront System

24 Elevation 63 - a 1/4" = 1'-0" * Aluminum-Framed Storefront System

27 Life Skills / Dining 1/4" = 1'-0" * Aluminum-Framed Storefront System

28 Life Skills / Dining 1/4" = 1'-0" * Aluminum-Framed Storefront System

29 31 - a 1/4" = 1'-0" * Aluminum-Framed Storefront System




49 12" x 48" Interior 1/4" = 1'-0"

10 76" x 46" Interior 1/4" = 1'-0" * Interior Aluminum-Framed Glazing System

11 60" x 46" Interior 1/4" = 1'-0" * Interior Aluminum-Framed Glazing System

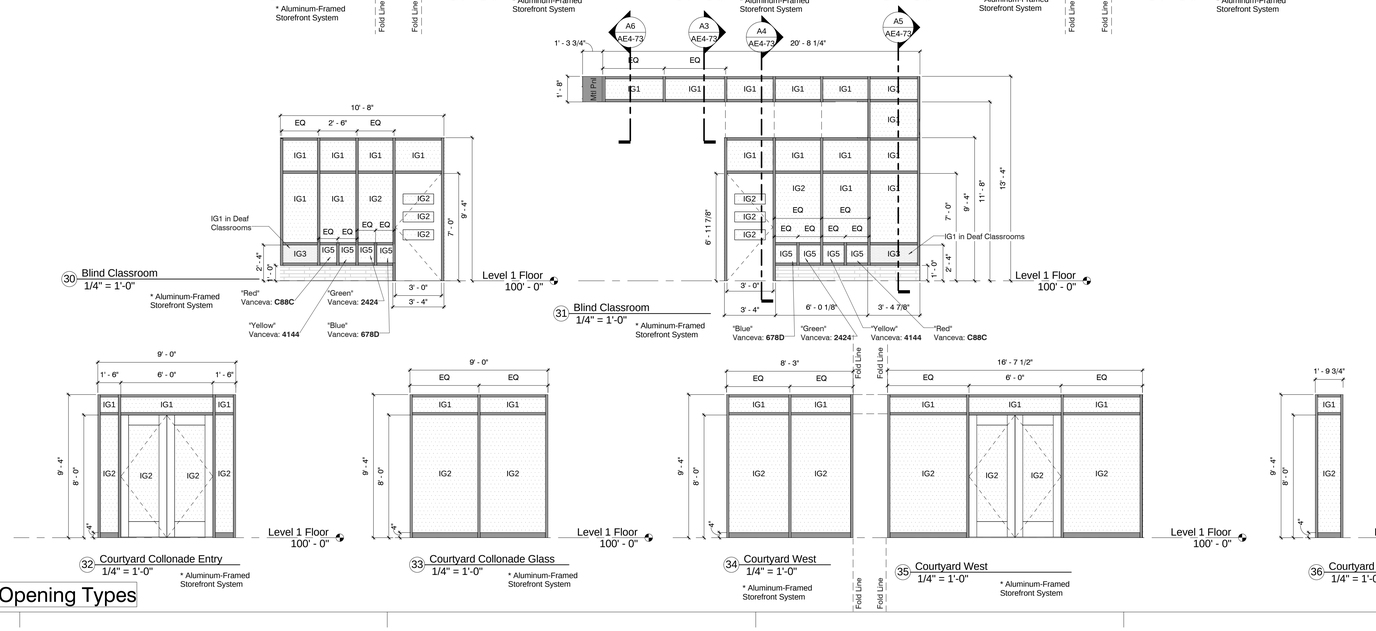
12 AV North 1/4" = 1'-0" * Interior Aluminum-Framed Glazing System

13 AV West 1/4" = 1'-0" * Interior Aluminum-Framed Glazing System

14 Clubhouse 1/4" = 1'-0" * Interior Aluminum-Framed Glazing System

15 Classroom Cooridor 1/4" = 1'-0" * Interior Aluminum-Framed Glazing System

## Interior Aluminum Opening Types




30 Blind Classroom 1/4" = 1'-0" * Aluminum-Framed Storefront System

31 Blind Classroom 1/4" = 1'-0" * Aluminum-Framed Storefront System

32 Courtyard Collonade Entry 1/4" = 1'-0" * Aluminum-Framed Storefront System

33 Courtyard Collonade Glass 1/4" = 1'-0" * Aluminum-Framed Storefront System

34 Courtyard West 1/4" = 1'-0" * Aluminum-Framed Storefront System

35 Courtyard West 1/4" = 1'-0" * Aluminum-Framed Storefront System

36 Courtyard North 1/4" = 1'-0" * Aluminum-Framed Storefront System

## Exterior Aluminum Opening Types

**General Notes:**

1. Verify all dimensions in field. The dimensions provided are Nominal, and may adjust based on the Rough-Masonry-Opening dimensions provided on the Building Elevations. The Door Width dimensions provided, however, are fixed.

2. See Specifications for Glazing types listed below

**Panel Legend:**

**IG1** Insulated Float Glass
**IG2** Insulated Tempered Glass
**IG3** Insulated Spandrel Glass
**IG4** Insulated Frosted Glass
**IG5** Insulated Tempered Glass with color film
**IG6** Insulated Glass with color film
**IG7** Insulated Acoustical Glass
**IG8** Tempered Insulated Acoustical Glass

**MG1** Float Glass
**MG2** Tempered Glass
**MG3** Colored Spandrel Glass
**MG4** Frosted Glass
**MG5** Reflective One-way Glass


JACOBY ARCHITECTS
425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

Architectural: - Jacoby Architects, Inc. - 801.363.1434
Civil: - Meridian Engineering, Inc. - 801.569.1315
Structural: - TBSE Inc. - 801.298.8795
Mechanical: - WHW Engineering - 801.466.4021
Electrical: - ECE Consulting - 801.521.8007
Landscape: - Landmark Design - 801.474.3300
Food Service: - Jedrzewski Designs - 801.582.9747

STAMP

STATE OF UTAH LICENSED ARCHITECT No. 6380412 Eric R. Jacoby 9/21/2015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SHEET DATA

Drawn By: Joe
Checked By: Checker

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4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

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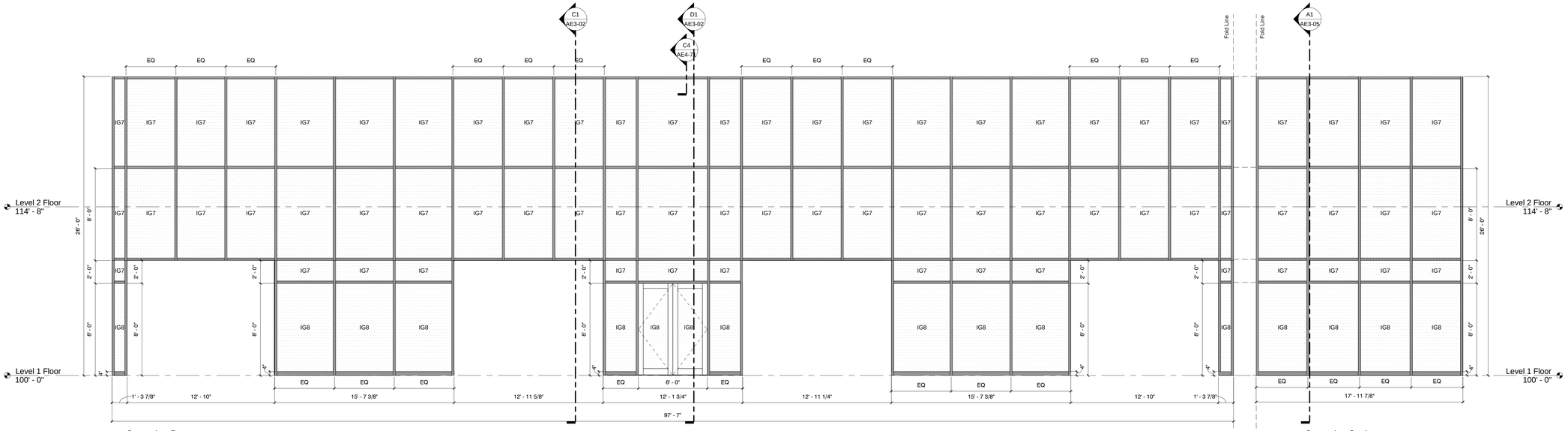
| 2015 05 21 | Bidding Documents |

Construction Documents

Opening Types

AE6-21

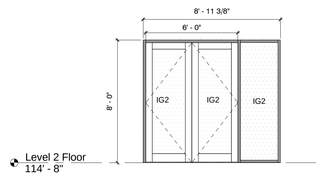



37 Gymnasium East
1/4" = 1'-0"

* Non-thermal Glazed Aluminum Curtain Wall

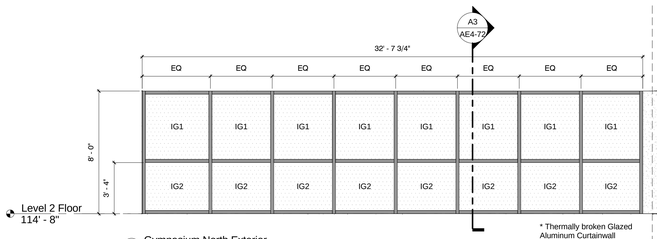
38 Gymnasium South
1/4" = 1'-0"

* Non-thermal Glazed Aluminum Curtain Wall



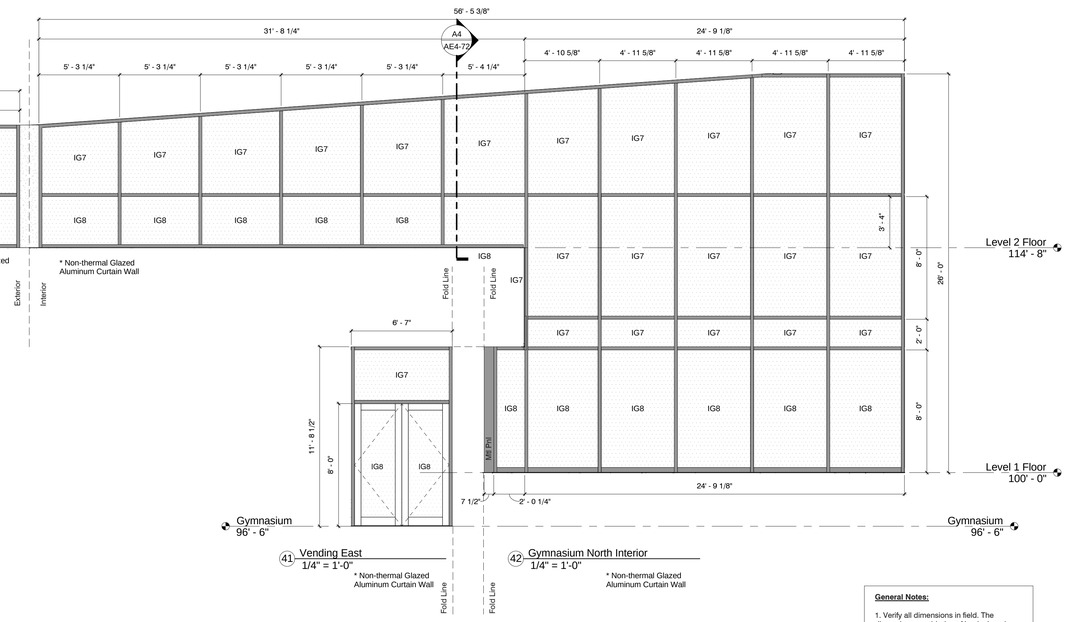

39 Garden Level 2
1/4" = 1'-0"

* Aluminum-Framed Storefront System




40 Gymnasium North Exterior
1/4" = 1'-0"

* Thermally broken Glazed Aluminum Curtainwall

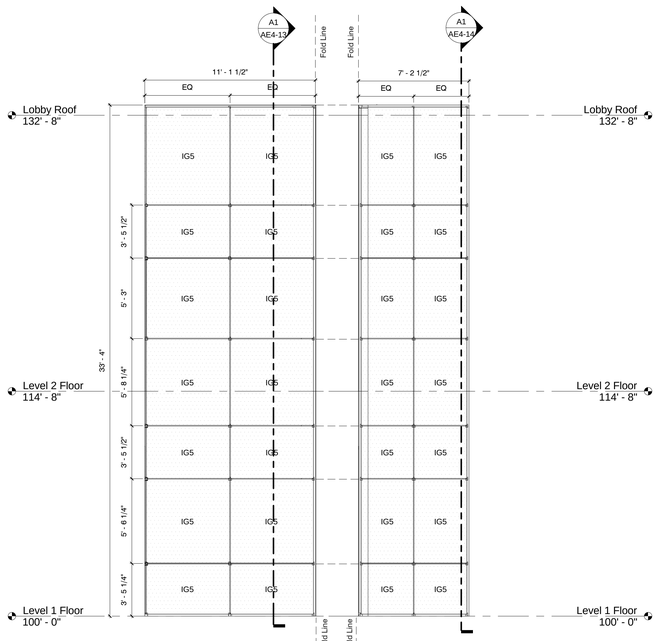



41 Vending East
1/4" = 1'-0"

* Non-thermal Glazed Aluminum Curtain Wall

42 Gymnasium North Interior
1/4" = 1'-0"

* Non-thermal Glazed Aluminum Curtain Wall




43 North Tower East Glass
1/4" = 1'-0"

* Structural-Sealant-Glazed Curtainwall System

44 North Tower North Glass
1/4" = 1'-0"

* Structural-Sealant-Glazed Curtainwall System

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STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT


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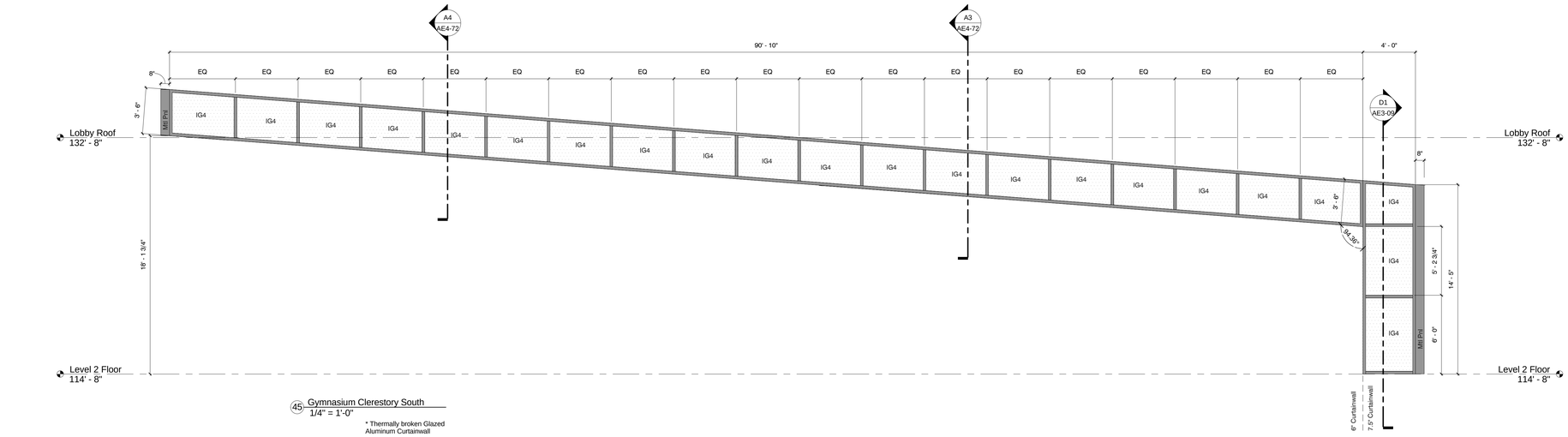
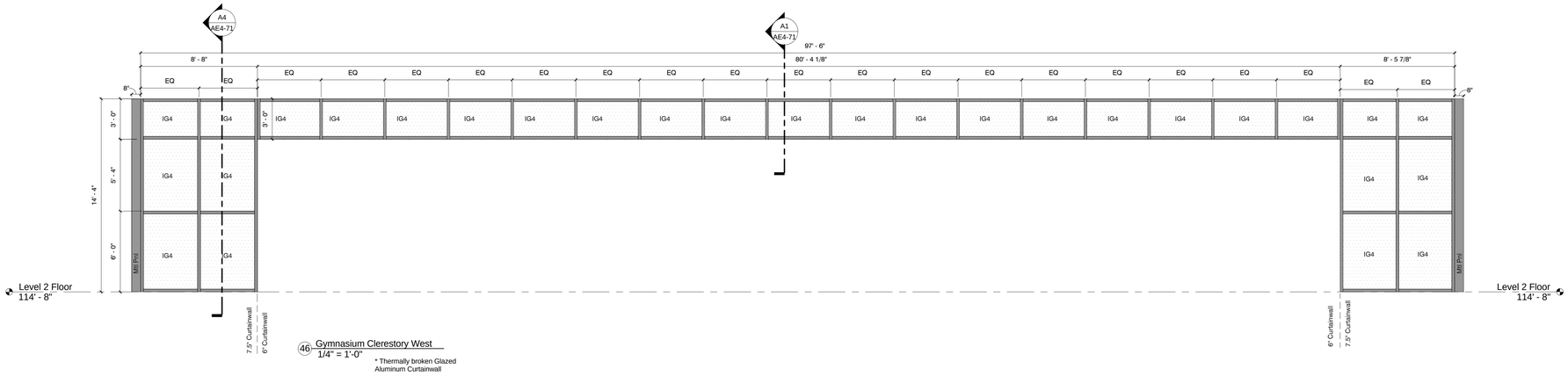
Opening Types

AE6-22



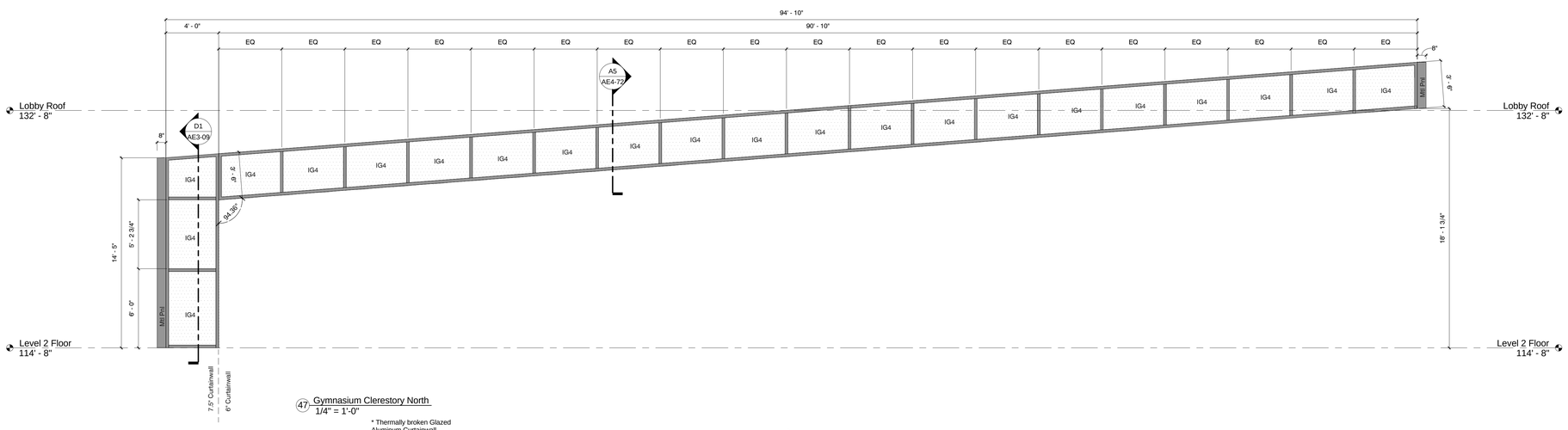

45 Gymnasium Clerestory South
1/4" = 1'-0"

* Thermally broken Glazed Aluminum Curtainwall



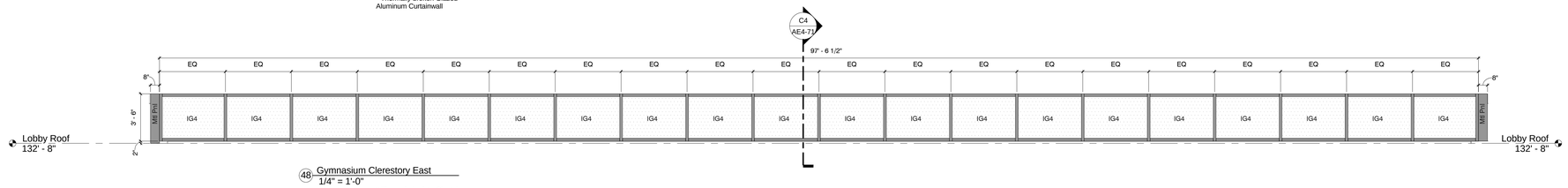

46 Gymnasium Clerestory West
1/4" = 1'-0"

* Thermally broken Glazed Aluminum Curtainwall




47 Gymnasium Clerestory North
1/4" = 1'-0"

* Thermally broken Glazed Aluminum Curtainwall




48 Gymnasium Clerestory East
1/4" = 1'-0"

* Thermally broken Glazed Aluminum Curtainwall

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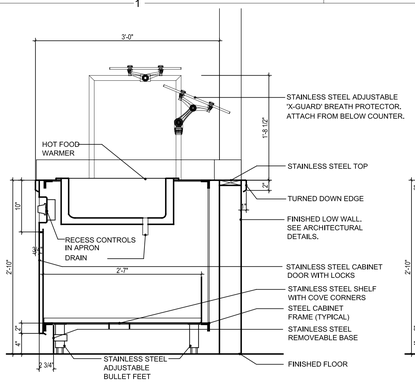
Construction Documents

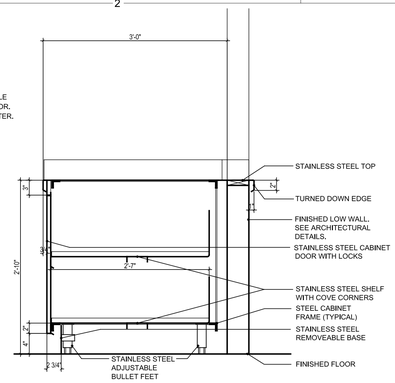
Opening Types

AE6-23



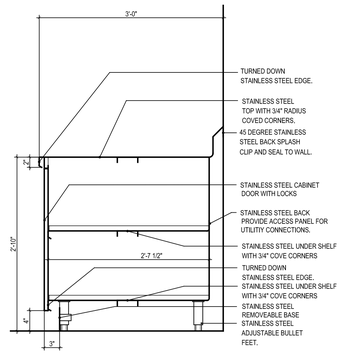

SERVING COUNTER: HOT SECTION DETAIL — B / FS1-01

SCALE: 1" = 1'-0"



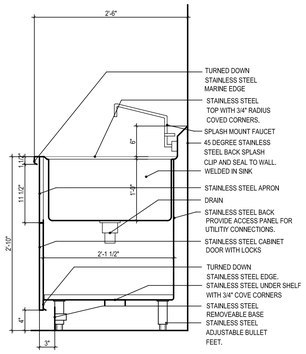

SERVING COUNTER: FLAT SECTION DETAIL — C / FS1-01

SCALE: 1" = 1'-0"



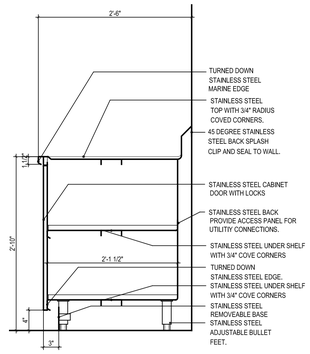

TYPICAL COUNTER SECTION DETAIL — D / FS1-01

SCALE: 1" = 1'-0"



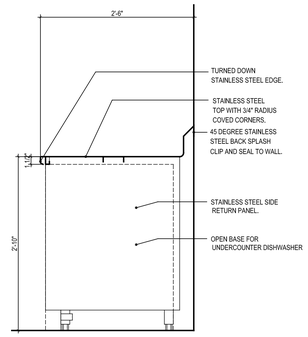

TYPICAL POT SINK COMPARTMENT SECTION DETAIL — E / FS1-01

SCALE: 1" = 1'-0"



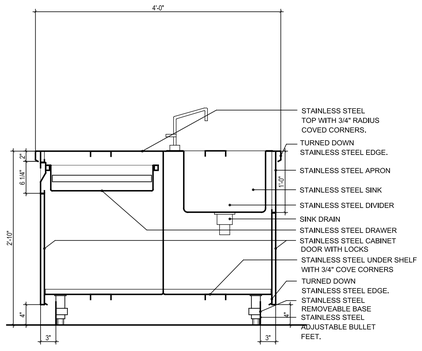

TYPICAL POT SINK CABINET BASE SECTION DETAIL — F / FS1-01

SCALE: 1" = 1'-0"



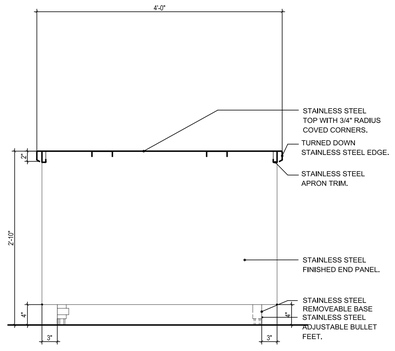

TYPICAL DISHWASHER COUNTER SECTION DETAIL — G / FS1-01

SCALE: 1" = 1'-0"



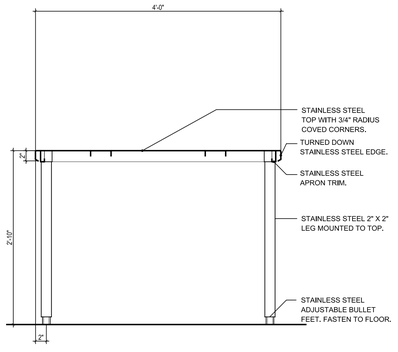

TYPICAL EDGE DETAILS SECTION DETAIL — H / FS1-01

SCALE: 1" = 1'-0"



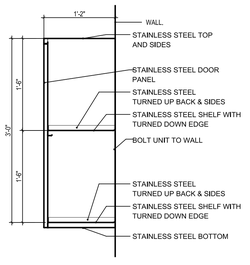

TYPICAL EDGE DETAILS SECTION DETAIL — I / FS1-01

SCALE: 1" = 1'-0"



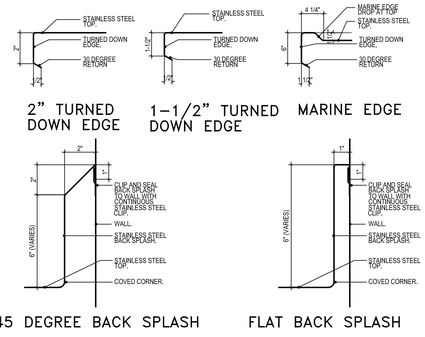

TYPICAL EDGE DETAILS SECTION DETAIL — J / FS1-01

SCALE: 1" = 1'-0"



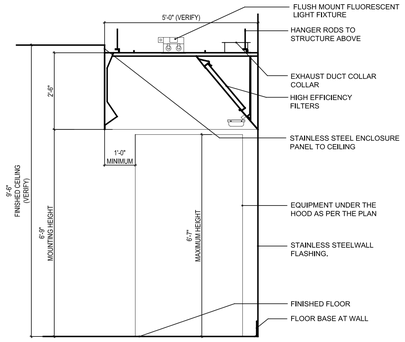

TYPICAL EDGE DETAILS SECTION DETAIL — K / FS1-01

SCALE: 1" = 1'-0"




TYPICAL EDGE DETAILS SECTION DETAIL — L / FS1-01

SCALE: 1" = 1'-0"

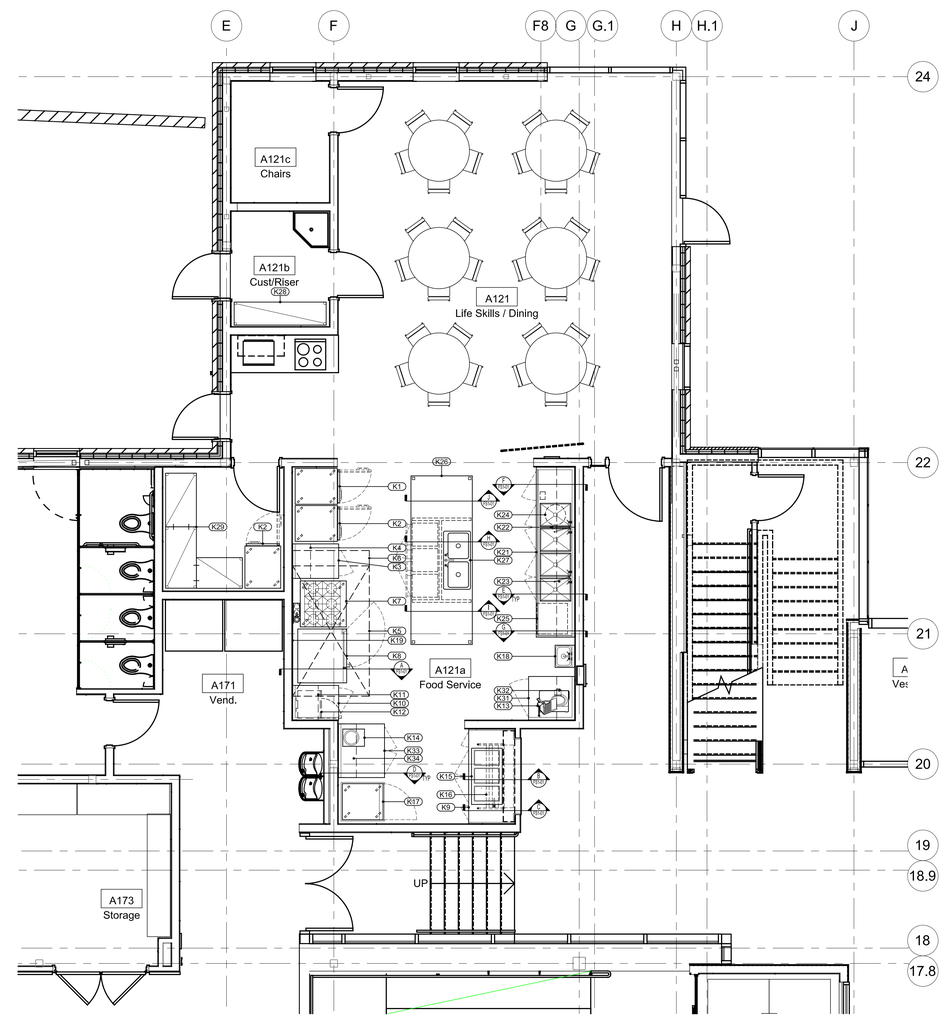



WALL CANOPY EXHAUST HOOD SECTION DETAIL — A / FS1-01

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

SCHEDULE: FOOD SERVICE EQUIPMENT

| ITEM | QTY | UNIT | DESCRIPTION |
|---|---|---|---|
| #K-1 | 1 | EACH | REACH-IN FREEZER: SINGLE SECTION |
| #K-2 | 2 | EACH | REACH-IN REFRIGERATOR: SINGLE SECTION |
| #K-3 | 1 | EACH | STAINLESS STEEL WORK COUNTER |
| #K-4 | 1 | EACH | STAINLESS STEEL WALL SHELF |
| #K-5 | 1 | EACH | STAINLESS STEEL EXHAUST HOOD: TYPE I |
| #K-6 | 1 | SYS | FIRE PROTECTION SYSTEM |
| #K-7 | 1 | EACH | SIX BURNER RANGE: WITH STANDARD OVEN BASE, GAS |
| #K-8 | 1 | EACH | COMBI-OVEN: WITH STAND, GAS |
| #K-9 | 1 | EACH | STAINLESS STEEL WORK COUNTER |
| #K-10 | 1 | EACH | STAINLESS STEEL WORK COUNTER |
| #K-11 | 1 | EACH | STAINLESS STEEL WALL SHELF |
| #K-12 | 1 | EACH | MICROWAVE OVEN |
| #K-13 | 1 | EACH | SLICER |
| #K-14 | 1 | EACH | FOOD PROCESSOR: BOWL TYPE |
| #K-15 | 1 | EACH | DROP-IN HOT FOOD WARMER: THREE SECTION |
| #K-16 | 1 | EACH | BREATH PROTECTOR/SERVING SHELF |
| #K-17 | 1 | EACH | HOT FOOD WARMING CABINET |
| #K-18 | 1 | EACH | WALL MOUNT HAND SINK |
| #K-19 | 1 | LOT | STAINLESS STEEL WALL FLASHING |
| #K-20 | - | - | SPARE NUMBER |
| #K-21 | 1 | EACH | STAINLESS STEEL FOUR COMPARTMENT SINK CABINET |
| #K-22 | 1 | EACH | PRE-RINSE SPRAY FAUCET |
| #K-23 | 1 | EACH | STAINLESS STEEL WALL CABINET |
| #K-24 | 1 | EACH | DISPOSER |
| #K-25 | 1 | EACH | UNDERCOUNTER DISHWASHER |
| #K-26 | 1 | EACH | STAINLESS STEEL ISLAND WORK COUNTER |
| #K-27 | 1 | EACH | STAINLESS STEEL PREP SINK |
| #K-28 | 1 | LOT | JANITOR SHELVING |
| #K-29 | 1 | LOT | STORAGE SHELVING |
| #K-30 | - | - | SPARE NUMBER |
| #K-31 | 1 | EACH | STAINLESS STEEL WORK COUNTER |
| #K-32 | 1 | EACH | STAINLESS STEEL WALL CABINET |
| #K-33 | 1 | EACH | STAINLESS STEEL WORK COUNTER |
| #K-34 | 1 | EACH | STAINLESS STEEL WALL CABINET |




F1 FOOD SERVICE EQUIPMENT PLAN

1/4" = 1'-0"

0 1' 2' 4' 10'

N


JACOBY ARCHITECTS

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STATE OF UTAH — No. 6380412 — Eric R. Jacoby — 9/21/2015 — LICENSED ARCHITECT


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SHEET DATA

Drawn By: RJ

Checked By: EJ

PROJECT

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230

DFCM APPROVAL STAMP:

ADDENDA

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

# Food Service Equipment Plans

FS1-01

## BUILDING REQUIREMENTS
## GENERAL NOTES:

A. See Plumbing Rough-In Plan for requirements for drains, water, gas and refrigeration lines.

B. See Electrical Rough-In Plan for requirements for outlets, junction boxes, loads, voltages, and phases.

C. See Mechanical and Electrical Plans for requirements of ventilation systems.

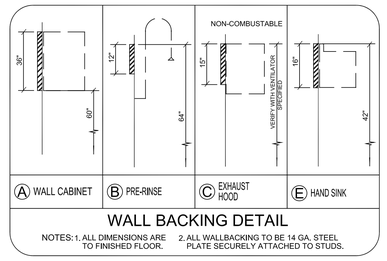
D. Verify blocking requirements with suppliers for those items not provided by Kitchen Equipment Contractor.

E. All dimensions are to be field verified for compliance prior to fabrication/installation. All Dimensions shown are critical and are from finished wall.

F. See Plumbing, Electrical and Mechanical Plans for further information and requirements.

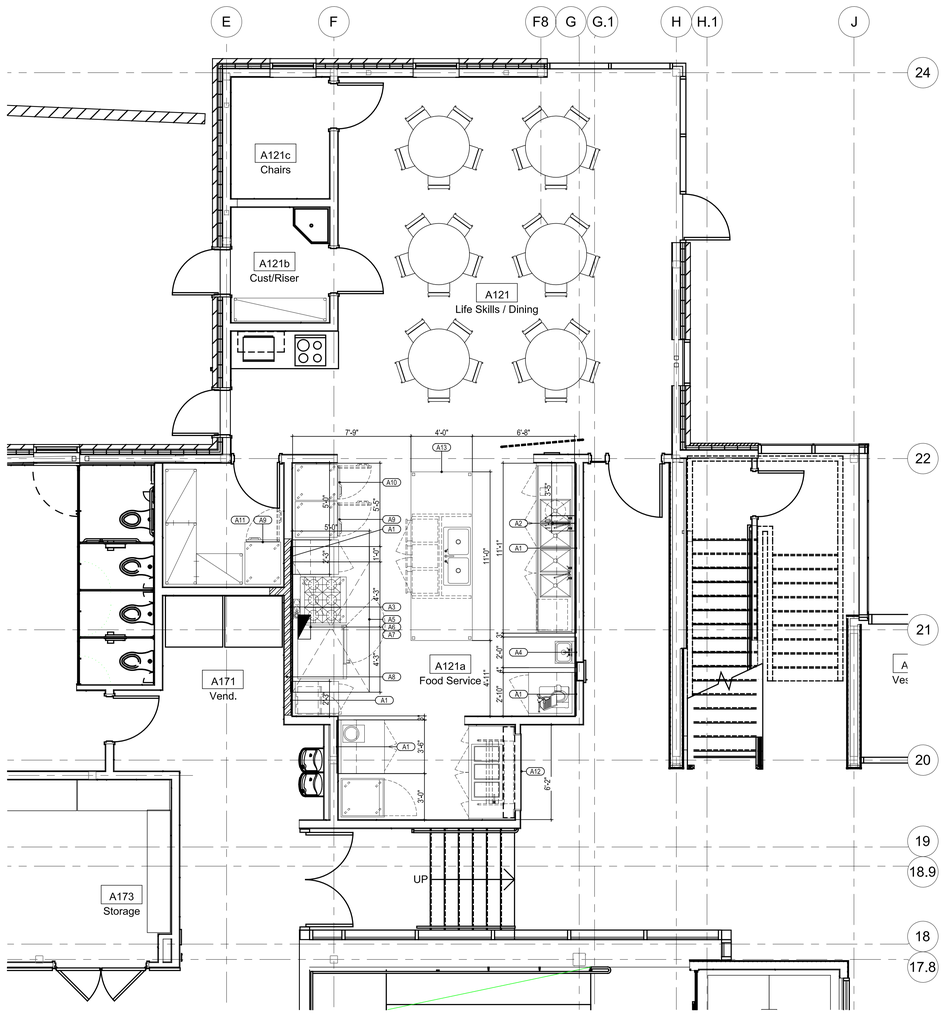
## BUILDING REQUIREMENTS NOTE SCHEDULE

| | |
|---|---|
| A1 | G.C. TO PROVIDE BLOCKING IN WALL FOR WALL CABINET. SEE DETAIL 'A' |
| A2 | G.C. TO PROVIDE BLOCKING IN WALL FOR PRE-RINSE FAUCET. SEE DETAIL 'B' |
| A3 | G.C. TO PROVIDE BLOCKING IN WALL FOR EXHAUST HOOD. SEE DETAIL 'C' |
| A4 | G.C. TO PROVIDE BLOCKING IN WALL FOR HAND SINK. SEE DETAIL 'D' |
| A5 | ITEM #K-5 EXHAUST HOOD, CANOPY, BOX STYLE, TYPE I, (1) SECTION, KEC TO MOUNT FROM STRUCTURE ABOVE AND TO BACK WALL BLOCKING. SEE HOOD SECTION DETAIL. |
| A6 | EXHAUST DUCT COLLAR, (1) EACH REQUIRED AT 10" X 10" AT (2040) CFM EACH, FOR A TOTAL EXHAUST OF (2040) CFM AT 0.6562" WC. STATIC PRESSURE AND 1600 DUCT VELOCITY. |
| A7 | MECHANICAL SYSTEM TO PROVIDE (1632) MAKE-UP AIR TO THE SPACE WHILE HOOD IS OPERATING, (80%) OF EXHAUSTED AIR. |
| A8 | G.C. TO PROVIDE NON COMBUSTABLE WALL ASSEMBLY AT WALLS BEHIND AND AT CEILING ABOVE HOOD TO EXTEND A MINIMUM OF 18" FROM HOOD. |
| A9 | MECHANICAL SYSTEM TO ACCOMMODATE 5,000 BTU'S PER HOUR FOR REACH-IN REFRIGERATOR. TO BE PROVIDED BY MECHANICAL DIVISION. |
| A10 | MECHANICAL SYSTEM TO ACCOMMODATE 7,500 BTU'S PER HOUR FOR REACH-IN FREEZER. TO BE PROVIDED BY MECHANICAL DIVISION. |
| A11 | MECHANICAL SYSTEM TO PROVIDE MAXIMUM 70 DEGREE F IN DRY STORAGE ROOM. |
| A12 | PASS THROUGH OPENING TO BE FINISHED 34" A.F.F. AT COUNTER TOP WITH HEAD AS PER ARCHITECTS DETAILS. |
| A13 | WORK COUNTERS TO BE MAXIMUM 34" A.F.F. WITH ACCESSIBLE ENDS AND SINK SECTION |




### WALL BACKING DETAIL

NOTES: 1. ALL DIMENSIONS ARE TO FINISHED FLOOR. 2. ALL WALLBACKING TO BE 14 GA. STEEL PLATE SECURELY ATTACHED TO STUDS.




F1 FOOD SERVICE EQUIPMENT BUILDING REQUIREMENT PLAN

1/4" = 1'-0"

0 1' 2' 4' 10'

N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STATE OF UTAH
No. 6380412
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|---|---|
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| Checked By: | EJ |

PROJECT

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ADDENDA

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| 2014 10 09 | Schematic Design |
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| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

# Food Service Equipment Plans

FS1-02

## PLUMBING NOTES

1. PLUMBING PLANS SHOW ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWING FOR CONSTRUCTION.
2. WATER PRESSURE IN FOOD AND BEVERAGE AREAS SHOULD BE 50 PSIG (345 KPa) MAXIMUM. WATER PRESSURE AT DISHMACHINES, BOOSTER HEATERS, GLASS AND UTENSIL WASHERS TO BE 25 PSIG (172 KPa).
3. PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES AND VACUUM BREAKERS AND CONNECT ALL WATER, FUEL GAS, STEAM AND WASTE LINES TO FOOD SERVICE AND BEVERAGE EQUIPMENT.
4. PLUMBING CONTRACTOR TO PROVIDE GAS SERVICES AT EQUIPMENT TO MAINTAIN AN 8" (203MM) WATER COLUMN. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE GAS PRESSURE REGULATORS AS REQUIRED BY CODE AND A.G.A. FOR INSTALLATION BY PLUMBING DIVISION INLINE BETWEEN BUILDING SERVICES AND EQUIPMENT.
5. PLUMBING DIVISION TO SUPPLY GAS SHUT OFF VALVE AT EACH EQUIPMENT CONNECTION AND INSTALL WITHIN EQUIPMENT SPREADERS OR CHASES FOR EASY ACCESSIBILITY.
6. MECHANICAL ENGINEER TO SIZE GAS ROUGH-IN FOR COOKING LINES; SCHEDULES SHOW LOADS ONLY FOR EACH PIECE NOT THE TOTAL. LOOP GAS SERVICES WHEN PRACTICAL.
7. PLUMBING DIVISION SHALL INSTALL AND CONNECT ALL FAUCETS FURNISHED BY KEC.
8. PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL FLOOR SINKS AND INDIRECT WASTE LINES TO FLOOR SINKS.
9. PLUMBING DIVISION TO PROVIDE ADEQUATE CLEAN-OUT FOR DRAIN LINES.
10. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL FIRE PROTECTION SYSTEM (INCLUDING FURNISHING SOLENOID SHUTOFF VALVES) PLUMBING DIVISION SHALL INSTALL SHUTOFF VALVE. VERIFY LOCATION WITH KEC.
11. FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FINISH FLOOR OR PER LOCAL CODE WITH REMOVEABLE GRATE COVER AS INDICATED.
12. FLOOR DRAINS INDICATED ARE FOR FOOD AND BEVERAGE AREAS ONLY ADDITIONAL GENERAL PURPOSE AREA DRAINS SHALL BE LOCATED BY THE PLUMBING ENGINEER/ ARCHITECT.

## PLUMBING LEGEND

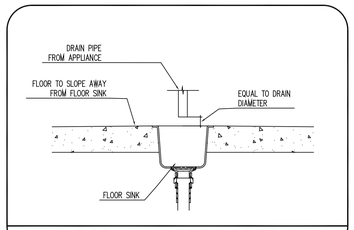
- HOT WATER
- COLD WATER
- GAS
- DIRECT WASTE DRAIN
- INDIRECT WASTE DRAIN
- FLOOR SINK WITH NO GRATE COVER
- FLOOR SINK WITH 1/2 GRATE COVER
- STUB UP FROM FLOOR
- MOUNT AT FLOOR
- DROP FROM ABOVE
- FLOOR DRAIN

### NOTE: PLUMBING MOUNTING

ALL WALL MOUNT PLUMBING UTILITIES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED PIPING SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.

### NOTE: PLUMBING COORDINATION

KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE PROPER LOCATION AND SIZE OF GENERAL CONTRACTOR FURNISHED STRUCTURAL PENETRATIONS AND PLUMBING DIVISION FURNISHED SLEEVES THRU FLOOR.

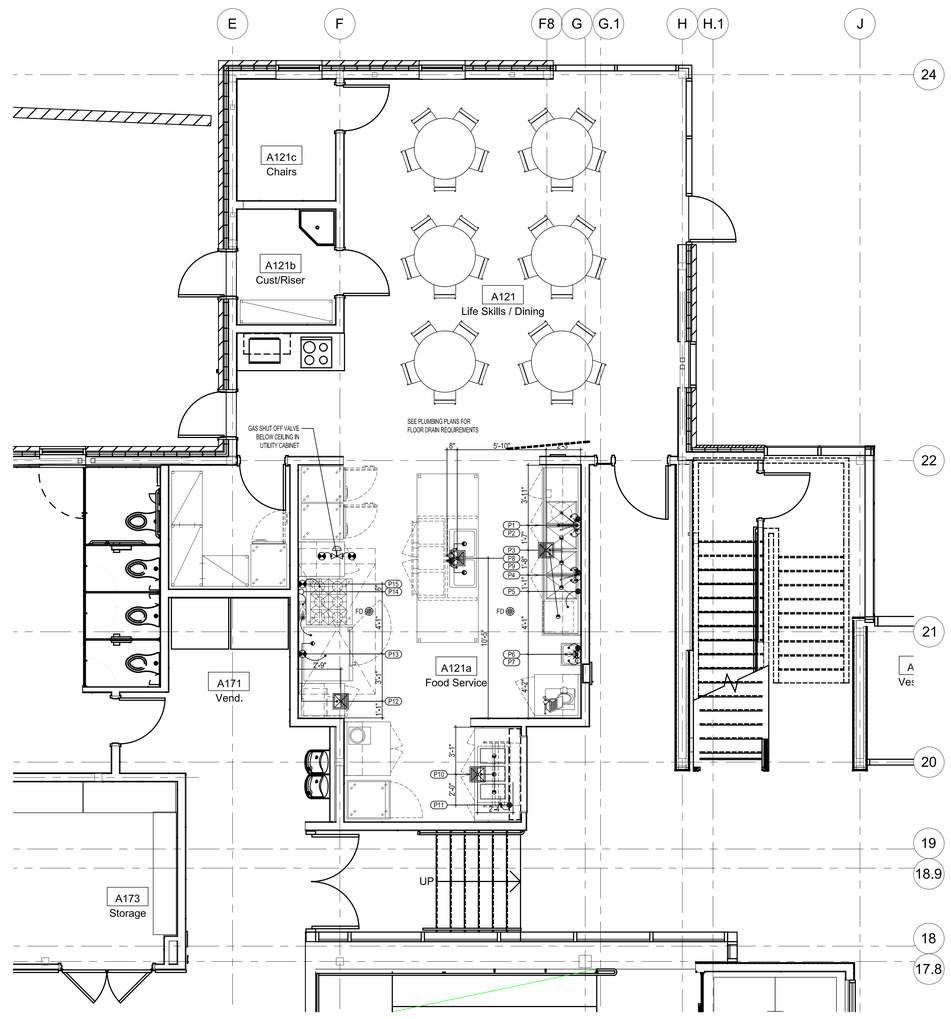



FLOOR SINK SECTION DETAIL

## PLUMBING ROUGH-IN/FINAL CONNECTION SCHEDULE

| ROUGH-IN REQUIREMENTS | | | | CONNECTION REQUIREMENTS | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| R# | ROUGH-IN TYPE | SIZE | HGT | # | ITEM # : EQUIPMENT DESCRIPTION | SIZE | HGT | REMARK |
| P-01 | DIRECT DRAIN | 2" | +9" | – | #K24 : DISPOSER | 2" | +12" | – |
| P-02 | HOT & COLD WATER | 1/2" | +12" | A | #K22 : PRE-RINSE FAUCET | 1/2" | +36" | – |
| | | | | B | #K24 : DISPOSER | 1/2" | +24" | COLD WATER ONLY. |
| P-03 | FLOOR SINK | 2" | +0" | A | #K21 : FOUR COMPARTMENT SINK | 1-1/2" | +24" | HALF GRATE TOP. NOTE #1. THREE EACH CONNECTIONS. |
| | | | | B | #K25 : DISHWASHER | 3/4" | +4" | NOTE #1. |
| P-04 | HOT & COLD WATER | 1/2" | +18" | A | #K21 : FOUR COMPARTMENT SINK; FAUCET | 1/2" | +36" | – |
| P-05 | HOT WATER | 3/4" | +12" | A | #K25 : DISHWASHER | 3/4" | +2" | WATER IN: 140 F, 15-25 PSI. PC TO INSTAL WATER HAMMER ARRESTOR. 4-6 GRAINS WATER HARDNESS. |
| P-06 | DIRECT DRAIN | 1-1/2" | +22" | – | #K18 : HAND SINK | 1-1/2" | +24" | – |
| P-07 | HOT & COLD WATER | 1/2" | +22" | – | #K18 : HAND SINK | 1/2" | +36" | – |
| P-08 | FLOOR SINK | 2" | +0" | – | #K27 : TWO COMPARTMENT SINK | 1-1/2" | +24" | HALF GRATE TOP. NOTE #1. TWO EACH CONNECTIONS. |
| P-09 | HOT & COLD WATER | 1/2" | STUB | – | #K27 : TWO COMPARTMENT SINK; FAUCET | 1/2" | +36" | – |
| P-10 | FLOOR SINK | 2" | +0" | – | #K15 : HOT FOOD WARMER | 1" | +20" | HALF GRATE TOP. NOTE #1. |
| P-11 | HOT WATER | 1/2" | +18" | – | #K15 : HOT FOOD WARMER; FILL FAUCET | 1/2" | +36" | CONNECT TO FILL FAUCET. |
| P-12 | FLOOR SINK | 2" | +0" | A | #K8 : COMBI-OVEN | 2" | +30" | HALF GRATE TOP. NOTE #1. COPPER DRAIN REQUIRED. |
| P-13 | NATURAL GAS | 3/4" | +18" | – | #K8 : COMBI-OVEN | 3/4" | +36" | 168,000 BTU/HR. NOTE #2 & #3. |
| P-14 | COLD WATER | 3/4" | +18" | – | #K8 : COMBI-OVEN | 3/4" | +30" | 5 GPM @ 21 to 87 PSI. INTERCONNECT IN-LINE FILTER SYSTEM. |
| P-15 | NATURAL GAS | 3/4" | +18" | – | #K7 : SIX BURNER RANGE WITH OVEN | 3/4" | +30" | 246,000 BTU/HR. NOTE #2 & #3. |

NOTE #1: PROVIDE INDIRECT AIR GAP DRAIN TO FLOOR SINK.
NOTE #2: K.E.C. TO PROVIDE QUICK DISCONNECT COUPLINGS AT GAS ROUGH-IN AND FINAL CONNECTION. FOR PLUMBING CONTRACTOR TO INSTALL
NOTE #3: K.E.C. TO PROVIDE PRESSURE REGULATOR AT GAS FINAL CONNECTION AS REQUIRED TO ADJUST FOR ALTITUDE. FOR PLUMBING CONTRACTOR TO INSTALL




F1 FOOD SERVICE EQUIPMENT PLUMBING REQUIREMENT PLAN
1/4" = 1'-0"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| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
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Construction Documents

Food Service Equipment Plans

FS1-03

## ELECTRICAL NOTES

1. ELECTRICAL PLAN SHOWS ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWINGS FOR CONSTRUCTION.
2. ELECTRICAL SYSTEM IS DESIGNED FOR 120/208 VOLTS, 1&3 PHASE, 60 HERTZ, 4 WIRE SYSTEM.
3. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL JUNCTION BOXES, RECEPTACLES, COVER PLATES, PULL BOXES, CONDUIT AND WIRING EXCEPT WHERE NOTED. RECEPTACLES AND COVER PLATES SHALL BE BRUSHED STAINLESS STEEL FURNISHED BY ELECTRICAL DIVISION.
5. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL VAPOR PROOF VENTILATOR LIGHTS COMPLETE WITH LAMPS. INTERCONNECTING CONDUIT, WIRING WITH WALL SWITCH FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION.
6. ADDITIONAL CONVENIENCE RECEPTACLES, TELEPHONE AND INTERCOM JACKS AND TEMPERATURE MONITORING SYSTEM ETC., SHALL BE LOCATED BY THE ELECTRICAL ENGINEER/ ARCHITECT AND AS REQUIRED BY CODE.
8. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN MICRO-SWITCH AND SOLENOID FUEL SHUT OFF VALVE FURNISHED WITH FIRE SUPPRESSION SYSTEM SUPPLIED BY THE KITCHEN EQUIPMENT CONTRACTOR.
11. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL EMPTY CONDUIT WITH JUNCTION BOXES FOR INSTALLATION OF OWNER SUPPLIED I.T. EQUIPMENT INCLUDING POS/ ELECTRONIC CASH CONTROL SYSTEM. ELECTRICAL DIVISION TO VERIFY INSTALLATION IN ACCORDANCE WITH OWNER'S REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS.
12. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL DISCONNECTS FOR ALL ELECTRICAL EQUIPMENT UNDER HOOD ACTIVATED BY FIRE SUPPRESSION SYSTEM.

## ELECTRICAL LEGEND

- ELECTRICAL OUTLET
- JUNCTION BOX
- CONVENIENCE DUPLEX RECEPTACLE
- FLEX CONNECTION (CONTINUOUS WIRE FROM ROUGH-IN TO JUNCTION/OUTLET LOCATION)
- DATA CONDUIT
- SWITCH
- CONTROLS
- STUB FROM FLOOR
- DROP FROM ABOVE
- DROP CORD FROM OUTLET IN CEILING TO +72" A.F.F.
- FLOOR MOUNTED

### NOTE: ELECTRICAL MOUNTING

ALL WALL MOUNT ELECTRICAL RECEPTACLE AND J-BOXES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED CONDUIT SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.

## ELECTRICAL ROUGH-IN/FINAL CONNECTION SCHEDULE

| ROUGH-IN REQUIREMENTS | | | CONNECTION REQUIREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| R# | ROUGH-IN TYPE | HGT. | ITEM # : EQUIPMENT DESCRIPTION | VLT/CYC/PH | LOAD | CONN | | REMARK |
| E-01 | JUNCTION BOX | DFA | #K5 : EXHAUST HOOD | 120/60/1 | 450 WATT | J-BOX | | INTERCONNECT WITH EXHAUST SYSTEM. HOOD SWITCH AND LIGHTS ARE PRE-WIRED TO CONTROL PANEL IN HOOD. |
| E-02 | JUNCTION BOX | DFA | #K6 : GAS SHUT OFF VALVE | 120/60/1 | 1 AMP | J-BOX | | CONNECT TO GAS SHUT OFF VALVE AND HOOD CONTROLS AS REQUIRED. INTERCONNECT WITH SHUNT TRIP BREAKERS FOR HOOD EQUIPMENT. PROVIDED WITH FIVE CONTACTS. |
| E-03 | JUNCTION BOX | DFA | #K5 : EXHAUST HOOD: HEAT SENSOR SYSTEM | 120/60/1 | 15 AMP | J-BOX | | INTERCONNECT FROM CONTROL BOX PROVIDED WITH HOOD TO EXHAUST SYSTM. NOTE #1. |
| E-04 | TEMPERATURE SENSOR | +48" | #K5 : EXHAUST HOOD: HEAT SENSOR SYSTEM | CONTROL WIRE | – | – | | INTERCONNECT FROM CONTROL BOX PROVIDED WITH HOOD. |
| E-05 | OUTLET | +88" | #K2 : REACH-IN REFRIGERATOR | 115/60/1 | 4.8 AMP | C&P | | – |
| E-06 | OUTLET | +88" | #K1 : REACH-IN FREEZER | 115/60/1 | 6.8 AMP | C&P | | – |
| E-07 | OUTLET | +88" | #K2 : REACH-IN REFRIGERATOR | 115/60/1 | 4.8 AMP | C&P | | – |
| E-08 | CONVENIENCE OUTLET | +48" | #K3 : WORK COUNTER | 120/60/1 | 10 AMP | C&P | | – |
| E-09 | OUTLET | +18" | #K7 : RANGE CONVECTION OVEN | 120/60/1 | 4 AMP | C&P | | – |
| E-10 | JUNCTION BOX | +18" | #K8 : COMBI-OVEN | 208/60/1 | 3.85 AMP | J-BOX | | – |
| E-11 | CONVENIENCE OUTLET | +48" | #K9 : WORK COUNTER | 120/60/1 | 10 AMP | C&P | | – |
| E-12 | OUTLET | +84" | #K12 : MICROWAVE OVEN | 208/60/1 | 15.3 AMP | C&P | | – |
| E-13 | CONVENIENCE OUTLET | +48" | #K9 : WORK COUNTER | 120/60/1 | 10 AMP | C&P | | – |
| E-14 | CONVENIENCE OUTLET | +48" | #K9 : WORK COUNTER | 120/60/1 | 10 AMP | C&P | | – |
| E-15 | OUTLET | +48" | #K13 : SLICER | 120/60/1 | 5.6 AMP | C&P | | – |
| E-16 | CONVENIENCE OUTLET | +48" | #K9 : WORK COUNTER | 120/60/1 | 10 AMP | C&P | | – |
| E-17 | OUTLET | +48" | #K14 : BOWL FOOD PROCESSOR | 120/60/1 | 13 AMP | C&P | | – |
| E-18 | CONVENIENCE OUTLET | +48" | #K9 : WORK COUNTER | 120/60/1 | 10 AMP | C&P | | – |
| E-19 | JUNCTION BOX | STUB | #K16 : BREATH PROTECTOR/LIGHT/HEAT LAMP | 120/60/1 | 8.16 AMP | J-BOX | | NOTE #3. INTERCONNECT SWITCH. MOUNTED IN COUNTER APRON. |
| E-20 | JUNCTION BOX | +18" | #K15 : HOT FOOD WARMER | 208/60/3 | 11.9 AMP | J-BOX | | INTERCONNECT CONTROLS IN COUNTER APRON. |
| E-21 | OUTLET | +18" | #K17 : HOT FOOD WARMING CABINET | 120/60/1 | 14.4 AMP | C&P | | – |
| E-22 | JUNCTION BOX | STUB | #K26 : WORK COUNTER | 120/60/1 | 180 WATT | C&P | | NOTE #2. INTERCONNECT TO OUTLET MOUNTED IN COUNTER END PANEL. TWO EACH OUTLETS. |
| E-23 | JUNCTION BOX | STUB | #K38 : WORK COUNTER | 120/60/1 | 180 WATT | C&P | | NOTE #2. INTERCONNECT TO OUTLET MOUNTED IN COUNTER END PANEL. TWO EACH OUTLETS. |
| E-24 | OUTLET | +18" | #K25 : DISHWASHER | 120-208/60/1 | 37.7 AMP | C&P | | |
| E-25 | JUNCTION BOX | +18" | #K24 : DISPOSER | 208/60/3 | 1.5 HP | J-BOX | | INTERCONENCT CONTROLS. |

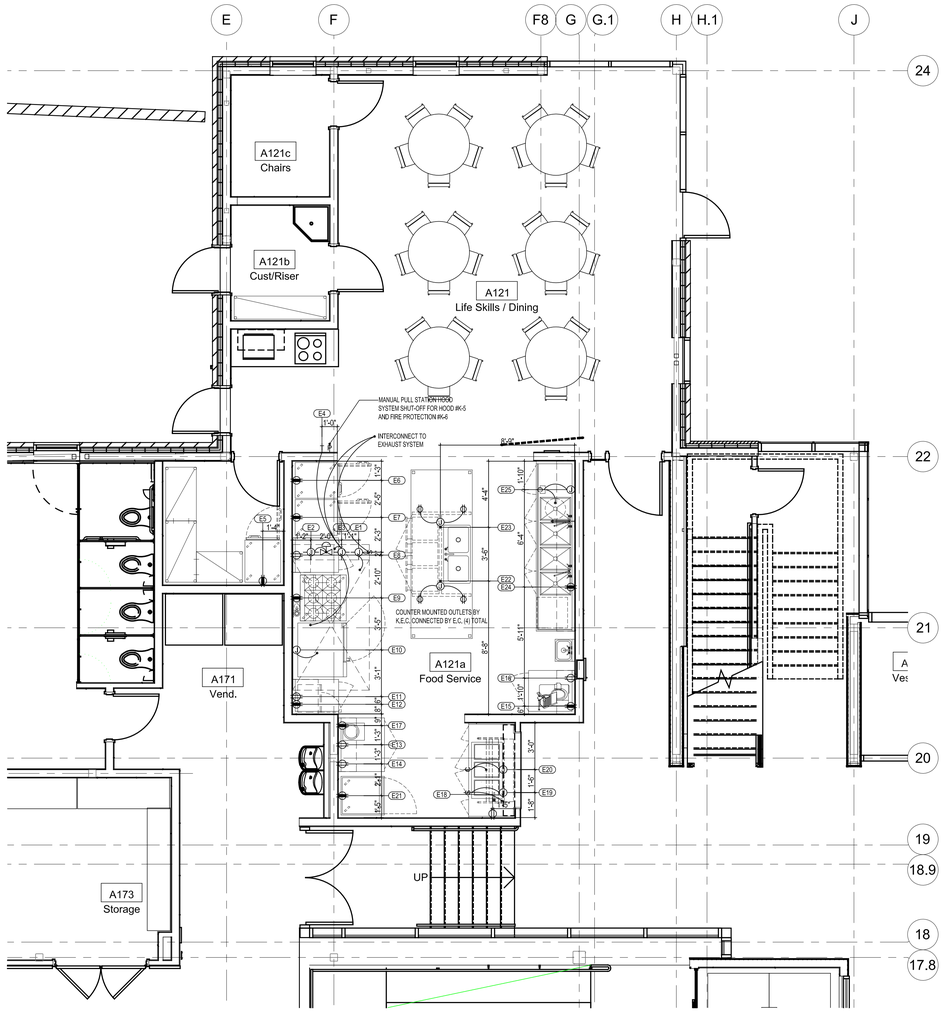
NOTE #1: ELECTRICIAN TO FIELD WIRE LOW VOLTAGE FROM TEMPERATURE CONTROLLER TO HEAT SENSORS PROVIDED WITH HOOD AT EACH EXHAUST RISER. ELECTRICIAN TO INTERLOCK CONTACT OR STARTERS SPECIFIED BY MECHANICAL SYSTEM TO THE CONTACTS AT THE CONTROL PANEL TO OPERATE EXHAUST SYSTEM.

NOTE #2: RUN FROM ROUGH-IN AND MOUNT AND WIRE OUTLET/JUNCTION BOX IN BASE OR APRON OF COUNTER/ON TABLE BASE AT HEIGHT NOTED.

NOTE #3: RUN FROM ROUGH-IN THROUGH PASS SHELF SUPPORT AND MOUNT OUTLET BOX ON PASS SHELF.

DFA: DROP FROM ABOVE
J-BOX: JUNCTION BOX CONNECTION
C&P: CORD AND PLUG

AMP: AMPERES
HP: HORSE POWER




F1 FOOD SERVICE EQUIPMENT ELECTRICAL REQUIREMENT PLAN
1/4" = 1'-0"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STATE OF UTAH
No. 6380412
Eric R. Jacoby
9/21/2015
LICENSED ARCHITECT


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SHEET DATA

Drawn By: RJ
Checked By: EJ

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building | Salt Lake City, Utah 84114 | 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

Food Service Equipment Plans

FS1-04

# MECHANICAL LEGEND

| SYMBOL | ABR, | DESCRIPTION |
|---|---|---|
| GENERAL TERMINOLOGY | | |
| A | | SECTION LETTER DESIGNATION |
| ME101 | | SECTION DRAWN ON THIS SHEET |
| A2 | | DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION |
| AH | | MECHANICAL EQUIPMENT DESIGNATION |
| 1 | | EQUIPMENT ITEM DESIGNATION |
| D-1 / CFM | | REGISTER, GRILLE OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW |
| R-1 | | GRILLE OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRED |
| 1 | | REVISION DESIGNATOR AND NUMBER |
| 1 | | KEY NOTE DESIGNATOR AND NUMBER |
| AFF | | ABOVE FINISHED FLOOR |
| AP | | ACCESS PANEL |
| C EL. | | CENTERLINE ELEVATION |
| GC | | GENERAL CONTRACTOR |
| MC | | MECHANICAL CONTRACTOR |
| ATC | | CONTROLS CONTRACTOR |
| EC | | ELECTRICAL CONTRACTOR |
| FPC | | FIRE PROTECTION CONTRACTOR |
| NIC | | NOT IN CONTRACT |
| NTS | | NOT TO SCALE |
| VCP | | VITRIFIED CLAY PIPE |
| C | | COMMON |
| NC | | NORMALLY CLOSED |
| NO | | NORMALLY OPEN |

| SYMBOL | ABR, | DESCRIPTION |
|---|---|---|
| AIR SIDE | | |
| | | NEW AIR DUCT |
| | | RECT TO RECT AIR DUCT TAKE-OFF |
| | | RECT TO RND AIR DUCT TAKE-OFF |
| | | RND TO RND AIR DUCT TAKE-OFF |
| | | MEDIUM PRESSURE TAKE-OFF |
| | | FLEXIBLE AIR DUCT |
| | | LINED DUCT |
| | | RADIUS ELBOW |
| | | ECCENTRIC DUCT TRANSITION |
| | | CONCENTRIC DUCT TRANSITION |
| | | VOLUME DAMPER |
| | | SUPPLY AIR DIFFUSER |
| | | RETURN & TRANSFER AIR GRILLE |
| | | EXHAUST GRILLE OR CEILING EXH. FAN |
| | | RETURN & OUTSIDE AIR DUCT UP/DN |
| | | RETURN & OA ROUND DUCT UP/DN |
| | | SUPPLY AIR DUCT UP/DN |
| | | SUPPLY AIR ROUND DUCT UP/DN |
| | | EXHAUST AIR DUCT UP/DN |
| | | EXHAUST AIR ROUND DUCT UP/DN |
| | AP | ACCESS PANEL |
| | | NEW EQUIPMENT |
| SA | | SUPPLY AIR |
| RA | | RETURN AIR |
| EA | | EXHAUST AIR |
| OA | | OUTSIDE AIR |
| MA | | MIXED AIR |
| RF | | RELIEF AIR |
| FO | | FLAT OVAL |
| M | MVD | MOTORIZED VOLUME DAMPER |
| BD | BD | BACKDRAFT DAMPER |
| F | FD | FIRE DAMPER |
| S | SD | SMOKE DAMPER |
| FS | FS | FIRE & SMOKE DAMPER |
| T | T-STAT | WALL MOUNTED THERMOSTAT |
| S | | WALL MOUNTED TEMP. SENSOR |
| H | H-STAT | WALL MOUNTED HUMIDISTAT |
| F | F-STAT | WALL MOUNTED FIRESTAT |

| SYMBOL | ABR, | DESCRIPTION |
|---|---|---|
| WET SIDE | | |
| | | PUMP |
| R | | REGULATOR |
| | | UNION |
| | | MANUAL ACTUATOR |
| | | PNUEMATIC DIAPHRAM ACTUATOR |
| M | | ELECTRIC MOTOR ACTUATOR |
| S | | SOLENOID ACTUATOR |
| | | BUTTERFLY VALVE |
| | | GATE VALVE |
| | | GLOBE VALVE - STRAIGHT PATTERN |
| | | GLOBE VALVE - ANGLE PATTERN |
| | | MOTORIZED 2-WAY CONTROL VALVE |
| | | MOTORIZED 3-WAY CONTROL VALVE |
| | PRV | PRESSURE REDUCING VALVE |
| | | CHECK VALVE |
| | | CIRCUIT BALANCING VALVE |
| | | BALL VALVE |
| P | | PRESSURE RELIEF VALVE |
| T | | THERMAL RELIEF VALVE |
| S | | SAFETY RELIEF VALVE |
| | | PLUG VALVE |
| | | NEEDLE VALVE |
| | | TRIPLE DUTY VALVE |
| | | AUTOMATIC AIR VENT |
| | | MANUAL AIR VENT |
| | | STRAINER |
| | | STRAINER W/ PLUG BLOW OFF |
| | | VENTURI |
| | | PRESSURE GUAGE W/ COCK - WATER |
| | | PRESSURE GUAGE W/ COCK - STEAM |
| | | THERMOMETER & THERMOWELL |
| S | | WATER TEMP SENSOR & THERMOWELL |
| F | | FLOW SWITCH |
| PS | | PRESSURE SWITCH |
| | | THERMOWELL |
| | | PRESSURE & TEMP TAP |
| T IBT | | INVERTED BUCKET STEAM TRAP |
| TT | | THERMOSTATIC STEAM TRAP |
| F&T | | FLOAT & THERMOSTATIC STEAM TRAP |
| | | DIRECTION OF FLOW |
| | | BACKFLOW PREVENTING VALVE |

| SYMBOL | ABR, | DESCRIPTION |
|---|---|---|
| WET SIDE | | |
| | | PITCH DOWN |
| | | ELBOW UP/DN |
| | | TEE UP/DN |
| | | PIPE CAP OR PLUG |
| | | REDUCER - CONCENTRIC / ECCENTRIC |
| | | EXPANSION JOINT |
| | | FLEXIBLE CONNECTION |
| | | ANCHOR POINT |
| | CD | CONDENSATE DRAIN |
| | G | NATURAL GAS PIPING |
| | CF | CHEMICAL FEED LINE |
| | GF | GLYCOL FILL LINE |
| | MU | MAKE-UP WATER LINE |
| | CW | CULINARY COLD WATER |
| | HW | CULINARY HOT WATER |
| | HWREC | CULINARY HOT WATER RECIRC |
| | HWS | HEATING WATER SUPPLY |
| | HWR | HEATING WATER RETURN |
| | CS | CONDENSER SUPPLY |
| | CR | CONDENSER RETURN |
| | L | REFRIGERANT LIQUID |
| | S | REFRIGERANT SUCTION |
| | HG | REFRIGERANT HOT GAS |

**GENERAL NOTES**

**G-1** - MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION OF THE EXISTING BUILDING AND SITE CONDITIONS, EXISTING PIPING, EXISTING ELECTRICAL, AND EXISTING SUPPORTS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

**G-2** - ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CHANGES FOR APPROVAL. CONTRACTOR SHALL NOT START ANY CHANGES UNTIL NOTIFIED IN WRITING. IF CHANGES ARE MADE PRIOR TO APPROVAL CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR THE CHANGES MADE AND ALL COSTS RELATING TO FAILURE OR REPLACEMENT OF ALTERATIONS.

**G-3** - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

**G-4** - THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.

**G-5** - THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

**G-6** - MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.

**G-7** - SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.

**G-8** - PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.

**G-9** - SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.

**G-10** - PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.

**G-11** - THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

**G-12** - THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

**G-13** - C.F.M. LISTED IS ACTUAL AIR.

**G-14** - SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

**G-15** - CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

**G-16** - ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2012 EDITION OF THE IMC AND IPC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

**G-17** - THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM.

**G-18** - ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND DOMESTIC MADE UNLESS SPECIFICALLY AUTHORIZED IN WRITING PRIOR TO BID.


JACOBY ARCHITECTS

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PROFESSIONAL ENGINEER
05/21/2015
WINWARD M. PACKER
No. 375080
STATE OF UTAH


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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

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| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

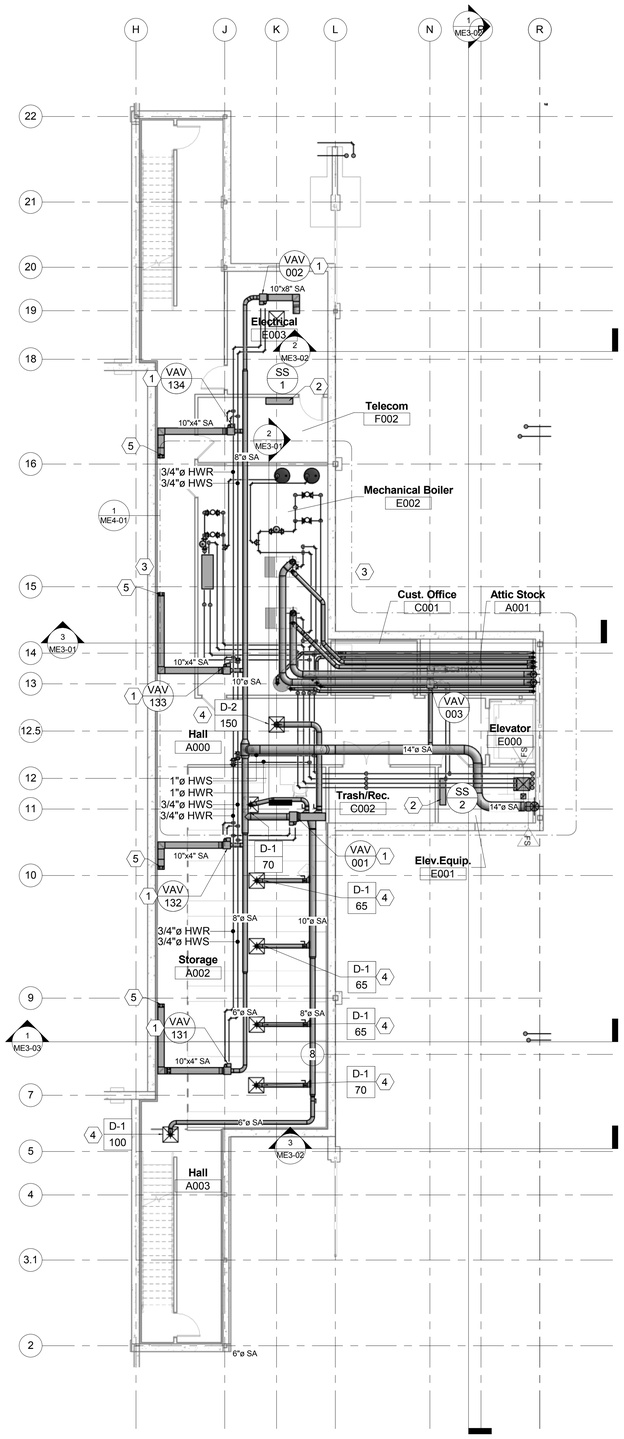
Construction Documents

MECHANICAL GENERAL NOTES AND LEGEND

MG0-01

## SHEET NOTES

1. PROVIDE NEW VAV BOX WITH HEATING COIL. SEE SCHEDULES AND DETAILS.
2. PROVIDE NEW SPLIT SYSTEM UNIT. SEE ROOF PLAN FOR ASSOCIATED CONDENSING UNIT. SEE SCHEDULES AND DETAILS.
3. SEE ENLARGED PLANS ME4-01 MECHANICAL ROOM.
4. PROVIDE NEW CEILING MOUNTED SUPPLY DIFFUSER. SEE SCHEDULES AND DETAILS.
5. VAV BOX TO SERVE ZONES ON LEVEL ABOVE. SEE SHEET ME1-01 FOR CONTINUATION. SEE ARCHITECTURAL DRAWINGS FOR SUPPLY DUCTWORK AND DIFFUSER AND INTERFACE WITH ARCHITECTURAL ELEMENTS.




1 BASEMENT MECHANICAL PLAN
1/8" = 1'-0"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|---|---|
| PLAN REVIEW | 05/11/15 |

ISSUE/PHASE

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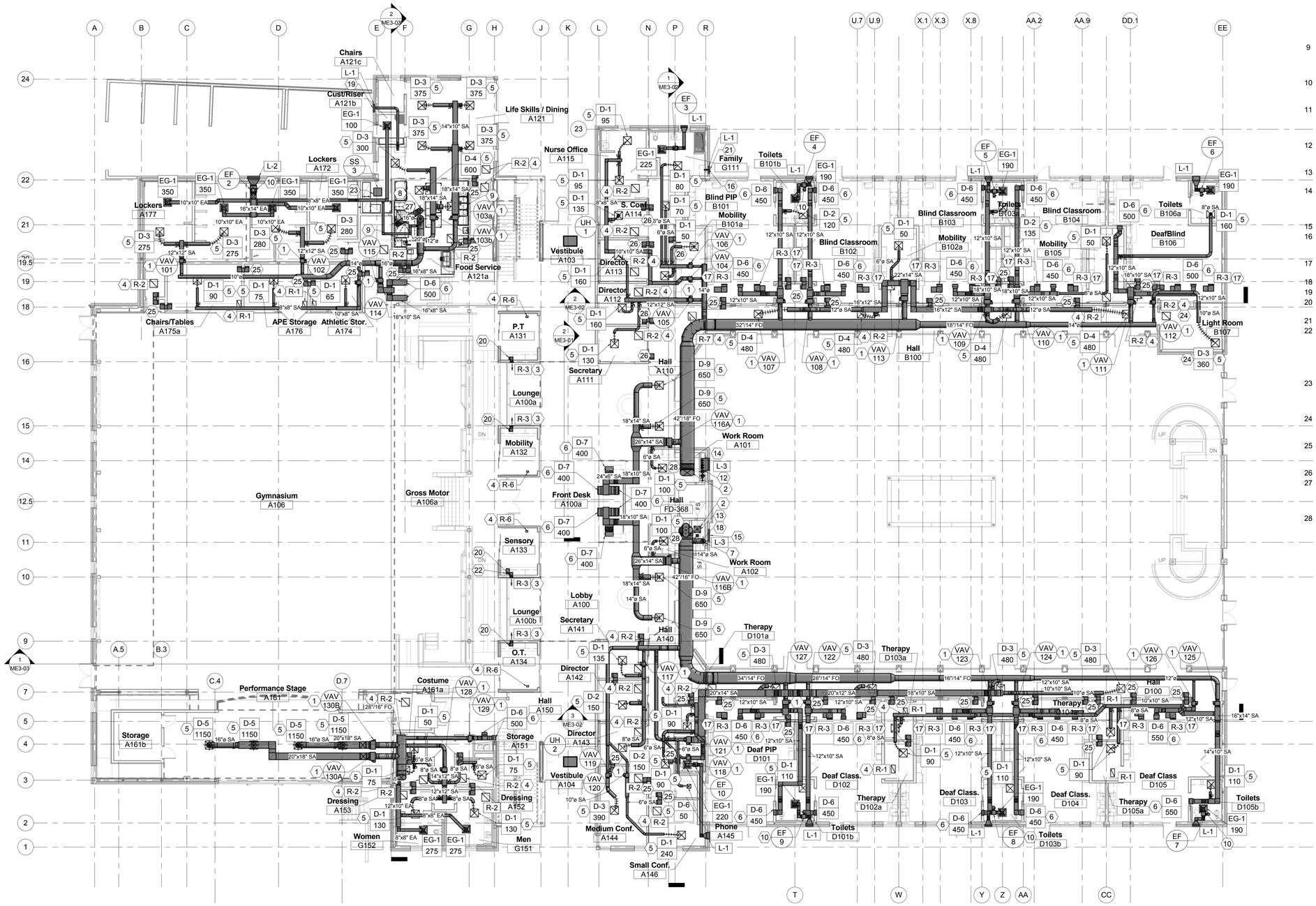
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

MECHANICAL HVAC
BASEMENT FLOOR PLAN

ME1-00




1 LEVEL 1 MECHANICAL PLAN
3/32" = 1'-0"

## SHEET NOTES

1. PROVIDE NEW VAV BOX WITH HEATING COIL. SEE SCHEDULES AND DETAILS.
2. MAIN SUPPLY DUCT FROM LEVEL ABOVE. SEE SHEET ME1-02 AND ME4-03 ENLARGED PLANS FOR CONTINUATION.
3. PROVIDE NEW SIDEWALL TRANSFER AIR GRILLE, SEE SCHEDULES AND DETAILS.
4. PROVIDE NEW CEILING RETURN AIR GRILLE WITH SOUND BOOT, SEE SCHEDULES AND DETAILS.
5. PROVIDE NEW CEILING MOUNTED SUPPLY DIFFUSER. SEE SCHEDULES AND DETAILS.
6. PROVIDE NEW SIDEWALL SUPPLY DIFFUSER. SEE SCHEDULES AND DETAILS.
7. MAIN SUPPLY DUCT TO SERVE LEVEL BELOW, SEE SHEET ME1-00 FOR CONTINUATION. PROVIDE FIRE SMOKE DAMPER AT FLOOR PENETRATION.
8. KITCHEN EXHAUST GREASE DUCT. PROVIDE 2-HR RATED DUCT WRAP FOR GREASE DUCT. SEE SPECIFICATIONS FOR ADDITIONAL GREASE DUCT INFORMATION. GREASE DUCT TO RISE UP IN SHAFT TO ROOF LEVEL TO GREASE EXHAUST FAN EF-1. SEE SHEET ME1-02 FOR CONTINUATION AND SEE ROOF PLAN, ME1-03, FOR GREASE EXHAUST FAN LOCATION.
9. KITCHEN EQUIPMENT TO BE PROVIDED AND SCHEDULED PER KITCHEN DESIGN PLANS. COORDINATE EXACT DUCT CONNECTIONS AND LOCATIONS WITH KITCHEN PLANS.
10. PROVIDE INLINE EXHAUST FAN AND ASSOCIATED EXHAUST DUCT AND SIDEWALL TERMINATION. SEE SCHEDULES AND DETAILS.
11. GYM AREA TO BE SERVED BY AH-2, LOCATED ON ROOF. SEE SHEET ME1-01 FOR DUCTWORK FROM AIR HANDLER, AND SEE SHEET ME1-03 FOR ROOF PLANS. SEE SCHEDULES AND DETAILS.
12. BOILER FLUE AND COMBUSTION AIR DUCT TO BE ROUTED UP THROUGH RATED SHAFT. SEE ARCHITECTURAL PLANS.
13. PROVIDE 20X20 FS DAMPER AT FLOOR AND OPEN INTO RETURN CHASE.
14. PROVIDE 36" X 12" PLENUM BOX DUCT BEHIND INTAKE LOUVER. CONNECT BOILER AND WATER HEATER COMBUSTION AIR DUCTS TO THE BOTTOM OF PLENUM BOX.
15. BLANK OFF LOUVER BACK SIDE OF LOUVER.
16. PROVIDE 4" DRYER EXHAUST DUCT FROM DRYER TO EXTERIOR WALL. CAP WITH DRYER EXHAUST BACKDRAFT PREVENTER CAP AND LOUVER.
17. PROVIDE NEW SIDEWALL RETURN GRILLE. SEE SCHEDULES AND DETAILS.
18. TRASH EXHAUST WITH FIRE SMOKE DAMPER.
19. DUCT RANGE HOOD TO OUTDOORS.
20. SUPPLY AIR BENEATH TOE KICK SPACE. SEE ME101.
21. PROVIDE BACKDRAFT DAMPER.
22. PROVIDE SUPPLY AIR FROM LEVEL BELOW IN THIS AREA. SEE SHEET ME1-00 FOR VAV BOX AND DUCT CONTINUATION. SEE ARCHITECTURAL DETAIL FOR UNDER CABINET SUPPLY AIR DUCT AND GRILLE LOCATED AT TOE KICK AREA IN CABINET.
23. PROVIDE SPLIT SYSTEM UNIT FOR PANTRY CLIMATE CONTROL. SEE KITCHEN DRAWINGS FOR TEMPERATURE CONTROL SETPOINTS AND CONTROLS.
24. DIFFUSERS AND GRILLES IN THE LIGHT ROOM TO BE PROVIDED WITH A CUSTOM COLOR PER ARCHITECT.
25. PROVIDE 12/12 LINED TRANSFER AIR DUCT THROUGH WALL ABOVE CEILING. SEE ZONE PLAN FOR RETURN AIR PATH BACK TO AIR HANDLER.
26.
27. MAINTAIN 6 SQ FT OPENING IN WALL ABOVE CEILING FOR RETURN AIR PATH IN CHASE. RETURN AIR PATH THROUGH CHASE UP TO LEVEL ABOVE.
28. MAINTAIN 11 SQ FT OPENING IN WALL ABOVE CEILING FOR RETURN AIR PATH IN CHASE. RETURN AIR PATH THROUGH CHASE UP FROM LEVEL BELOW THROUGH PLENUM CEILING SPACE OF THIS LEVEL TO AIR HANDLER, AH-1, UP ON ROOF.

GENERAL NOTES:

1. VERIFY DIFFUSERS AND GRILLES LOCATED IN CLASSROOMS, THERAPY ROOMS AND LIGHT ROOM TO BE RATED AT A NOISE CRITERIA BELOW NC 20.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PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building, Salt Lake City, Utah 84114 • 538-3018

DFCM # 14190230
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|---|---|
| PLAN REVIEW | 05/11/15 |

ISSUE/PHASE

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| 2014 10 09 | Schematic Design |
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| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
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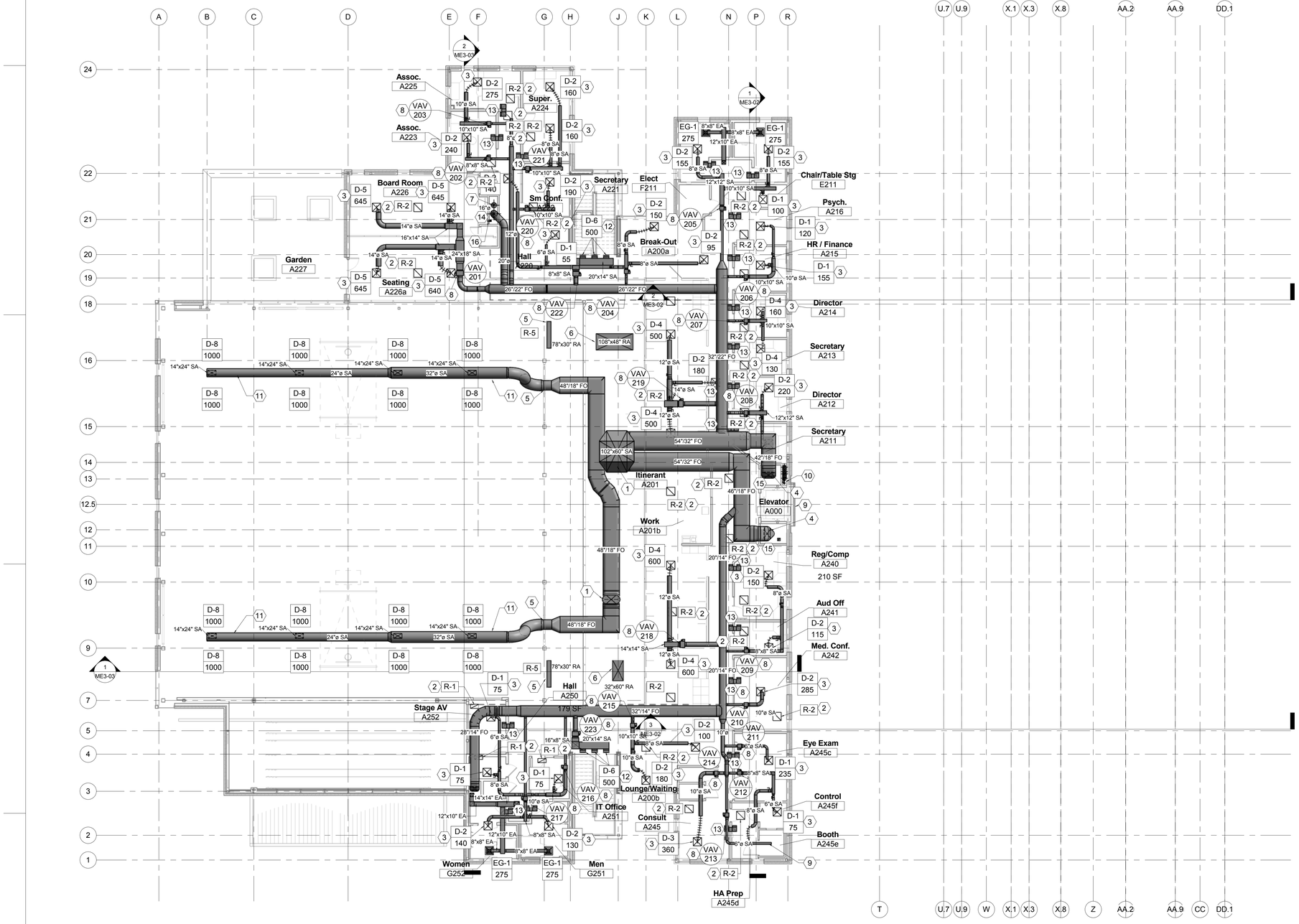
Construction Documents

MECHANICAL HVAC
LEVEL 1 FLOOR PLAN

ME1-01




1 LEVEL 2 MECHANICAL PLAN
3/32" = 1'-0"

## SHEET NOTES

1. PROVIDE MAIN SUPPLY AIR DUCT DROP FROM AIR HANDLER ABOVE. SEE ROOF PLAN ME1-03 FOR CONTINUATION.
2. PROVIDE NEW CEILING RETURN AIR GRILLE WITH SOUND BOOT, SEE SCHEDULES AND DETAILS.
3. PROVIDE NEW CEILING MOUNTED SUPPLY DIFFUSER. SEE SCHEDULES AND DETAILS.
4. PROVIDE MAIN SUPPLY AIR DUCT DROP TO LEVEL BELOW. SEE SHEET ME1-01 FOR CONTINUATION.
5. COORDINATION WALL PENETRATION WITH STRUCTURAL AND ARCHITECTURAL TO GYM AREA. MODIFY DUCT SIZE AS REQUIRED. COORDINATE FINAL DUCT SIZE AND LOCATION WITH DESIGN TEAM.
6. PROVIDE MAIN RETURN AIR DUCT DROP FROM AIR HANDLER ABOVE.
7. GREASE DUCT FROM KITCHEN HOOD ON LEVEL BELOW, UP TO ROOF ABOVE THROUGH RATED SHAFT. SEE SHEETS ME1-01 AND ME1-03 FOR CONTINUATION. PROVIDE RATED GREASE DUCT WRAP.
8. PROVIDE NEW VAV BOX WITH HEATING COIL. SEE SCHEDULES AND DETAILS.
9. PROVIDE DUCT CONNECTION TO DIFFUSER. DIFFUSER PROVIDED WITH BOOTH.
10. BOILER FLUE AND COMBUSTION AIR DUCT TO BE ROUTED UP THROUGH RATED SHAFT. SEE ARCHITECTURAL PLANS.
11. FOR ALL EXPOSED DUCTWORK PROVIDE CLEAN TRANSITIONS, SEAMS, JOINTS, ETC. TAKE EXTRA CARE FOR EXPOSED DUCTWORK APPEARANCE / CRAFTMANSHIP TO BE NEAT, STRAIGHT AND CLEAN. DUCT SHALL BE PAINTED PER ARCH PLANS.
12. PROVIDE NEW SIDEWALL SUPPLY DIFFUSER. SEE SCHEDULES AND DETAILS.
13. PROVIDE 12/12 LINED TRANSFER AIR DUCT THROUGH WALL ABOVE CEILING, SEE ZONE PLAN FOR RETURN AIR PATH BACK TO AIR HANDLER.
14. MAINTAIN 6 SQ FT OPENING IN WALL ABOVE CEILING FOR RETURN AIR PATH IN CHASE. RETURN AIR PATH THROUGH CHASE UP FROM LEVEL BELOW, THROUGH PLENUM CEILING OF THIS LEVEL TO AIR HANDLER, AH-1, UP ON ROOF.
15. MAINTAIN 11 SQ FT OPENING IN WALL ABOVE CEILING FOR RETURN AIR PATH IN CHASE. RETURN AIR PATH THROUGH CHASE UP FROM LEVEL BELOW THROUGH PLENUM CEILING SPACE OF THIS LEVEL TO AIR HANDLER, AH-1, UP ON ROOF.
16. PROVIDE 6/4 EXHAUST DUCT UP FROM LEVEL BELOW WITH FIRE/SMOKE DAMPER AT FLOOR LEVEL. EXHAUST TO VENTILATE EQUIPMENT IN CABINET. PROVIDE 10/6 GRILLE IN INTERIOR CABINET FACE, PRICE 530, SEE SCHEDULES.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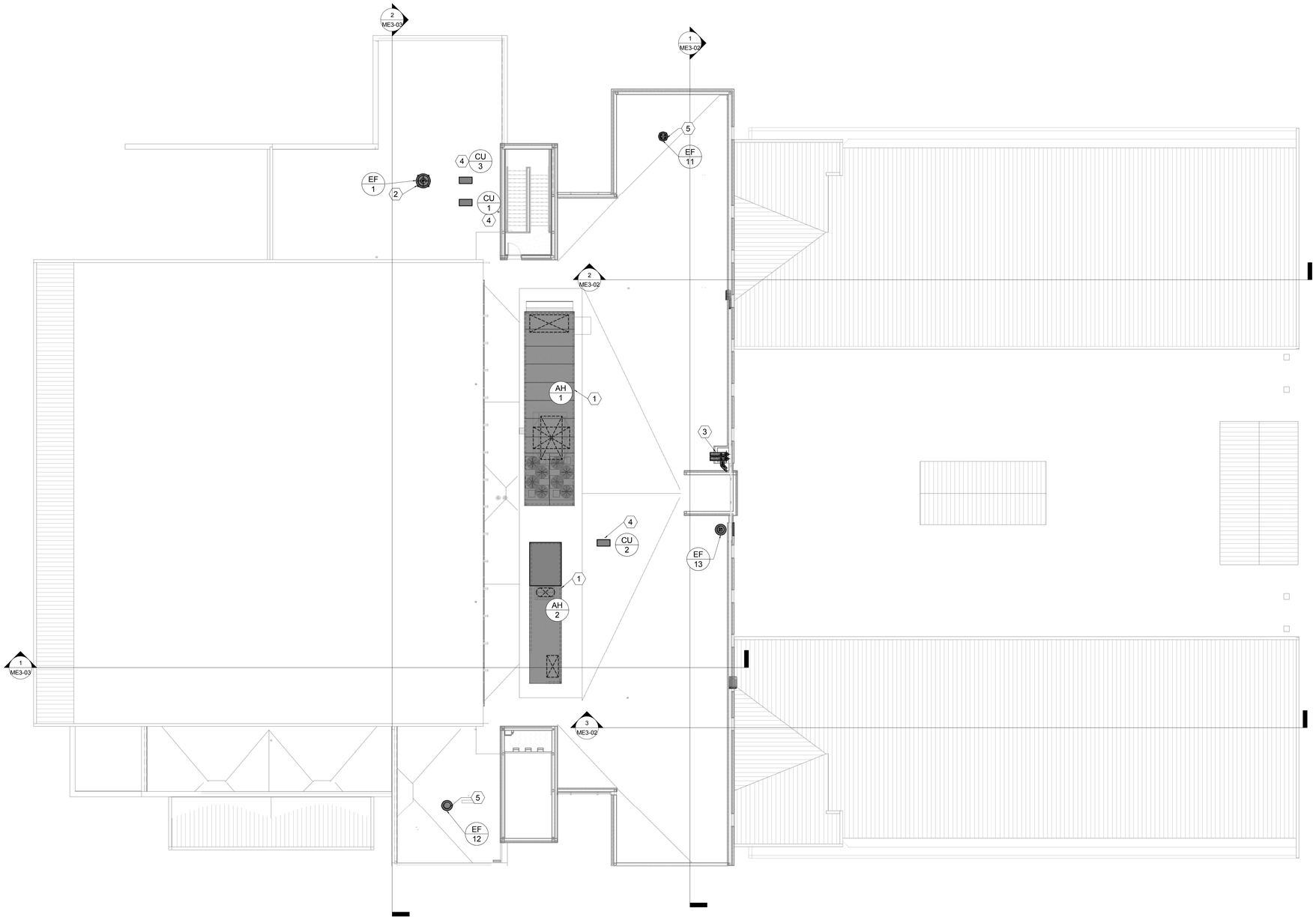
MECHANICAL HVAC
LEVEL 2 FLOOR PLAN

ME1-02

## SHEET NOTES

1. PROVIDE NEW AIR HANDLER WITH RAISED CURB. SEE SCHEDULES AND DETAILS. COORDINATE DUCT PENETRATIONS WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. PROVIDE GREASE EXHAUST FAN. SEE SCHEDULES AND DETAILS.
3. PROVIDE SIDEWALL FLUE OUTLET FROM BOILERS AND WATER HEATERS IN THIS APPROXIMATE LOCATION. SEE BOILER AND WATER HEATER SCHEDULES. NOTE ANY SPECIAL FLUE OR COMBUSTION AIR DUCT/PIPE LENGTH REQUIREMENTS. SEE SHEET ME1-01, ME1-02 AND BASEMENT LEVEL ME100 FOR CONTINUATION.
4. PROVIDE ROOF MOUNTED CONDENSING UNITS SERVING ASSOCIATED INDOOR UNITS. SEE SCHEDULES AND DETAILS.
5. PROVIDE ROOF MOUNTED GENERAL EXHAUST FANS.




1 ROOF MECHANICAL PLAN
3/32" = 1'-0"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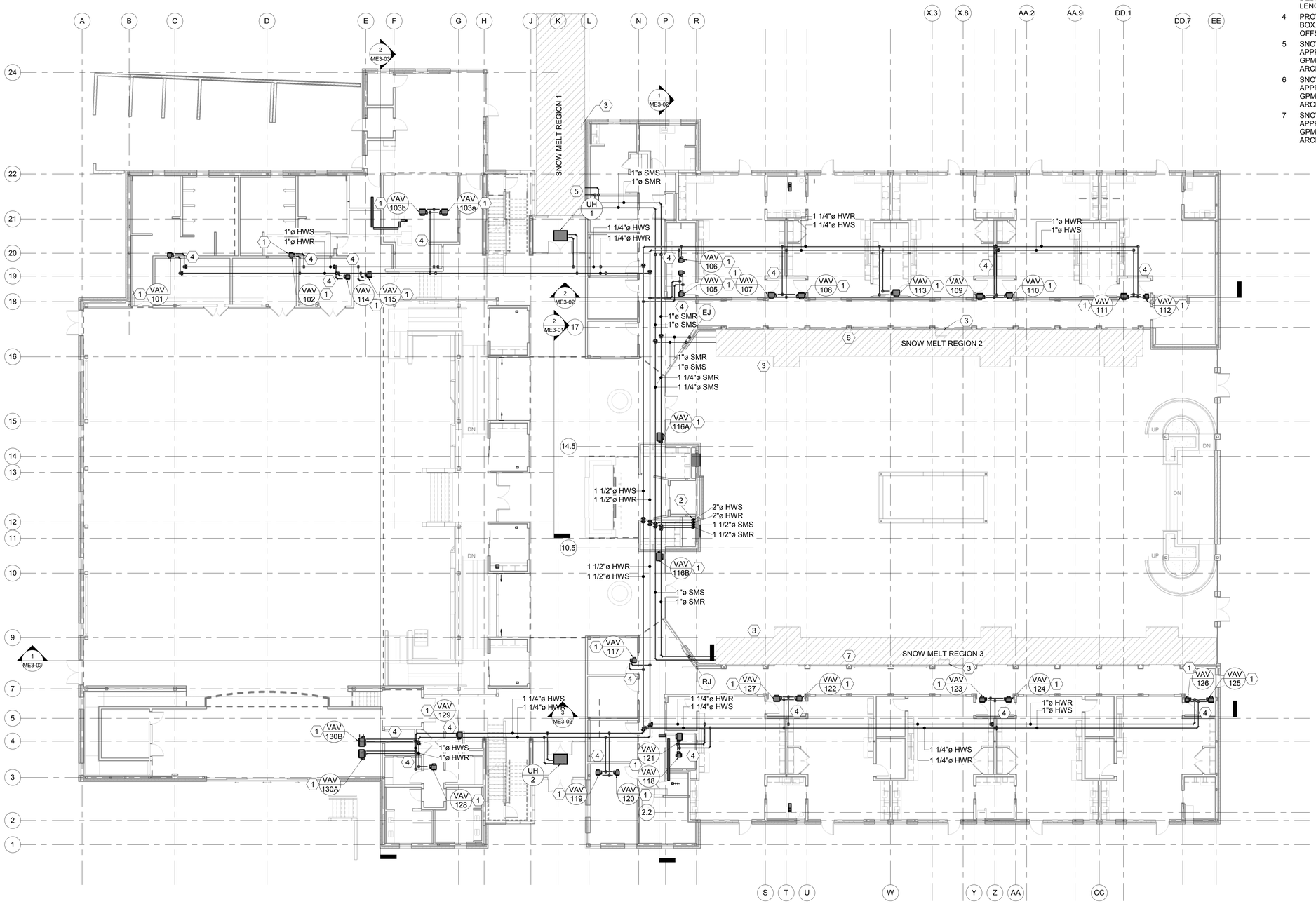
MECHANICAL HVAC ROOF FLOOR PLAN

ME1-03




1 LEVEL 1 MECH PIPING PLAN
3/32" = 1'-0"

## SHEET NOTES

1. PROVIDE NEW VAV BOX WITH HEATING COIL AND ALL ASSOCIATED ITEMS. SEE SCHEDULES AND DETAILS. COORDINATE WITH MECHANICAL ZONE PLANS FOR THERMOSTAT LOCATIONS AND VENTILATION CONTROL SENSORS. CONTROLS CONTRACTOR TO PROVIDE CONTROLS WIRING FROM THERMOSTAT TO VAV BOX.
2. HWS AND HWR PIPING DROP TO LEVEL BELOW AND RISE UP TO LEVEL ABOVE IN THIS APPROXIMATE LOCATION. SEE SHEETS ME100 AND ME1-12 FOR CONTINUATIONS.
3. SNOW MELT ZONE. SEE SPECIFICATIONS AND DETAILS. EACH SNOW MELT ZONE TO HAVE A DEDICATED MANIFOLD. TOTAL CIRCUIT PIPING LENGTHS NOT TO EXCEED 200'.
4. PROVIDE NEW HWS AND HWR PIPING TO EACH VAV BOX. COORDINATE EXACT ROUTING, ELBOWS, OFFSETS AS PIPING IS SHOWN DIAGRAMATICALLY.
5. SNOW MELT ZONE 1. PROVIDE MANIFOLD AT THIS APPROXIMATE LOCATION AND BALANCE ZONE TO 5 GPM. COORDINATE LOCATION FOR APPROVAL WITH ARCHITECT.
6. SNOW MELT ZONE 2. PROVIDE MANIFOLD AT THIS APPROXIMATE LOCATION AND BALANCE ZONE TO 6 GPM. COORDINATE LOCATION FOR APPROVAL WITH ARCHITECT.
7. SNOW MELT ZONE 3. PROVIDE MANIFOLD AT THIS APPROXIMATE LOCATION AND BALANCE ZONE TO 7 GPM. COORDINATE LOCATION FOR APPROVAL WITH ARCHITECT. PROVIDE WITH 3-WAY VALVE.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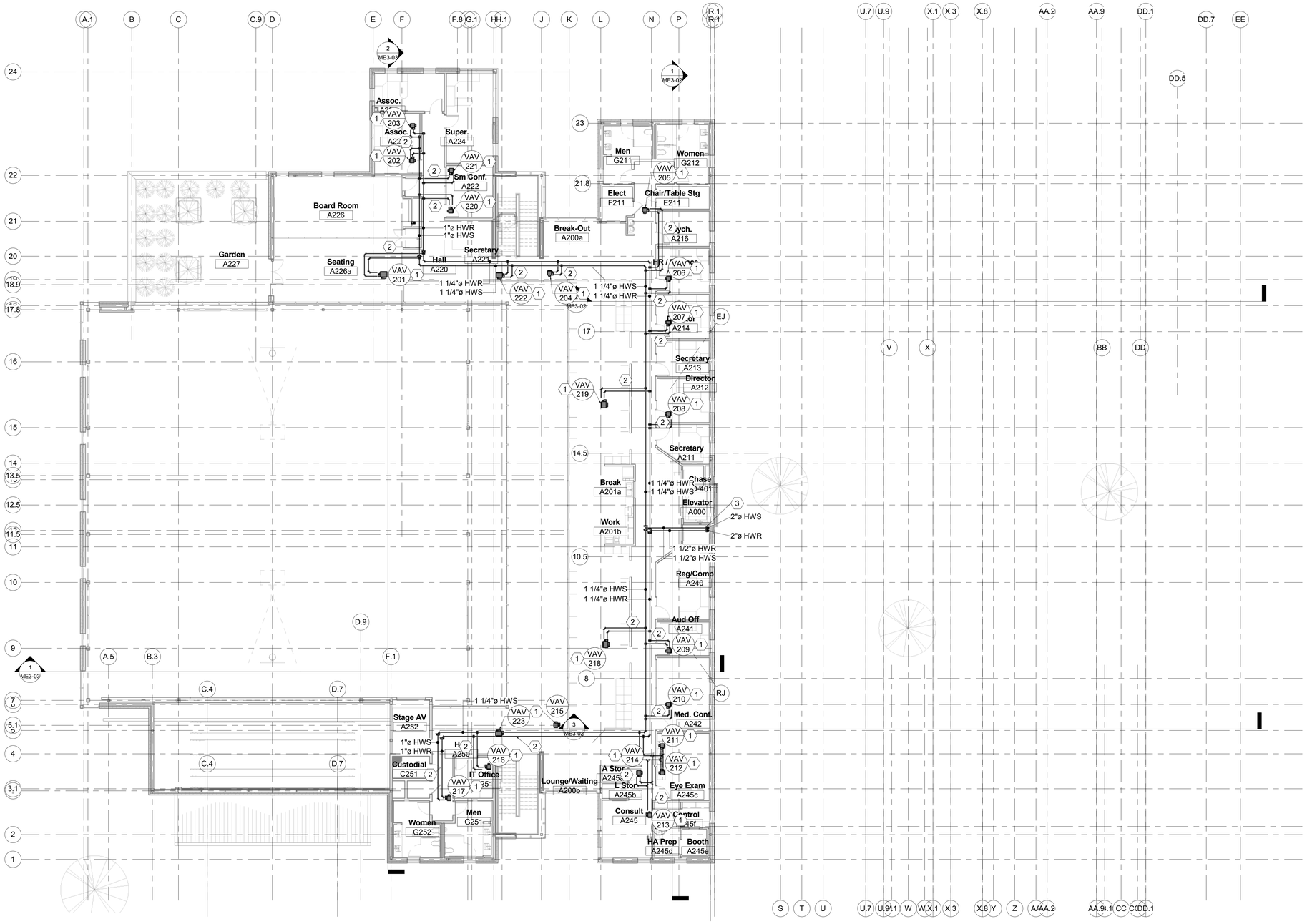
Construction Documents

MECH PIPING LEVEL 1 FLOOR PLAN

ME1-11

## SHEET NOTES

1. PROVIDE NEW VAV BOX WITH HEATING COIL AND ALL ASSOCIATED ITEMS. SEE SCHEDULES AND DETAILS. COORDINATE WITH MECHANICAL ZONE PLANS FOR THERMOSTAT LOCATIONS AND VENTILATION CONTROL SENSORS. CONTROLS CONTRACTOR TO PROVIDE CONTROLS WIRING FROM THERMOSTAT TO VAV BOX.
2. PROVIDE NEW HWS AND HWR PIPING TO EACH VAV BOX. COORDINATE EXACT ROUTING, ELBOWS, OFFSETS AS PIPING IS SHOWN DIAGRAMATICALLY.
3. HWS AND HWR PIPING DROP TO LEVEL BELOW IN THIS APPROXIMATE LOCATION. SEE SHEET ME111 FOR CONTINUATION.




1 LEVEL 2 MECH PIPING PLAN
3/32" = 1'-0"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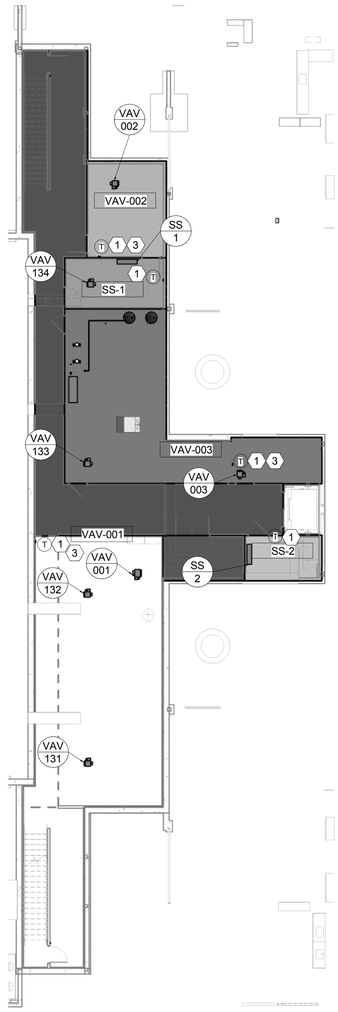
Construction Documents

MECH PIPING LEVEL 2 FLOOR PLAN

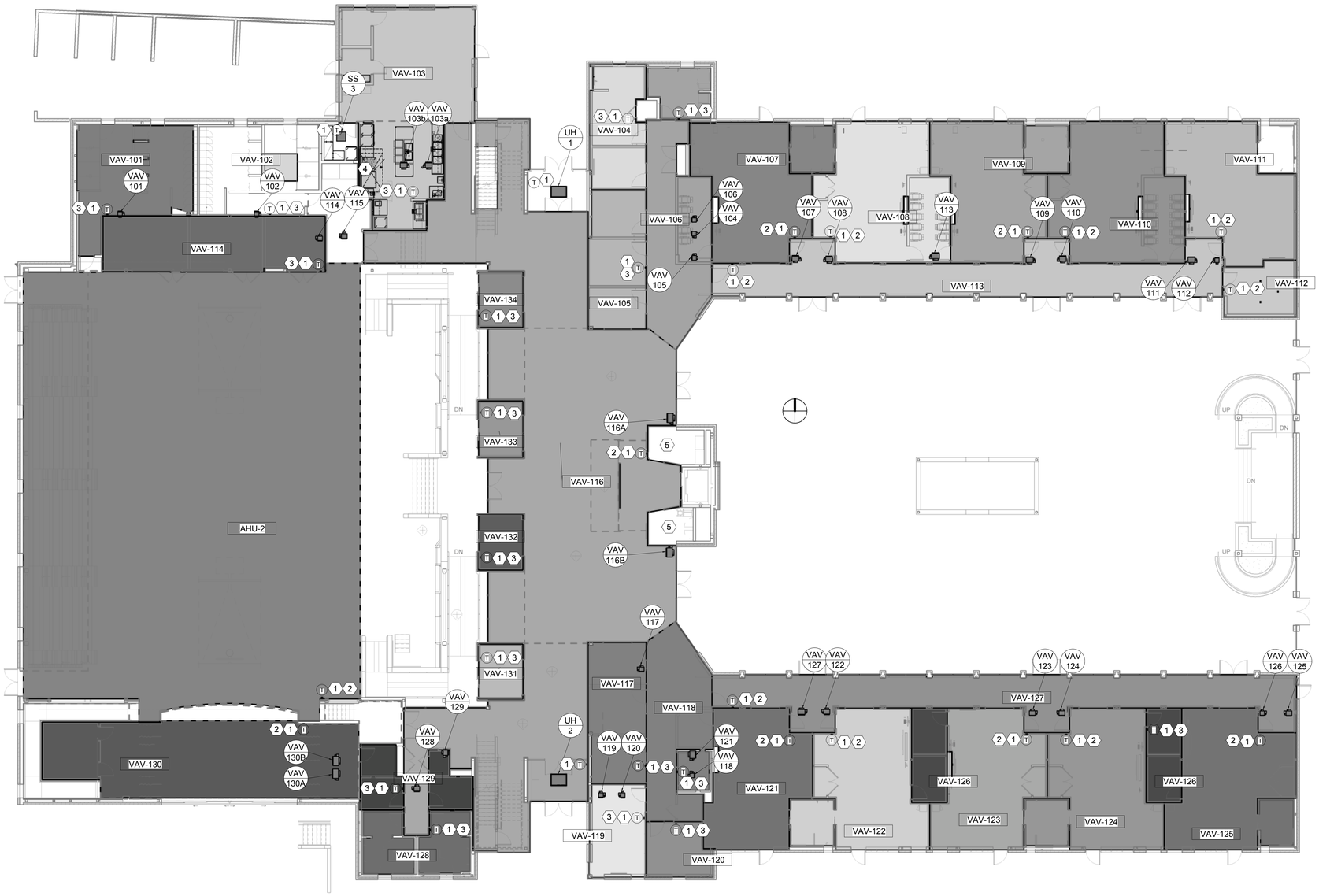
ME1-12

## SHEET NOTES

1. PROVIDE FULLY PROGRAMMABLE DDC THERMOSTAT FOR EACH ZONE TO ASSOCIATED VAV BOX AS CALLED OUT ON ZONE PLANS.
2. PROVIDE CO2 SENSOR IN EACH ROOM WHERE THERE IS NOT ELECTRICAL PROVIDED OCCUPANCY SENSORS FOR VENTILATION CONTROL, TYPICAL. COORDINATE WITH ELECTRICAL DRAWINGS FOR LIGHTING OCCUPANCY SENSORS LOCATIONS.
3. TIE VAV ZONE INTO LIGHTING OCCUPANCY SENSOR BY ELECTRICAL. PROVIDE RELAYS FOR ALL ZONES WITH MORE THAN 1 OCCUPANCY SENSORS. COORDINATE WITH ELECTRICAL DRAWINGS FOR LIGHTING OCCUPANCY SENSOR LOCATIONS.
4. MAINTAIN 6 SQ FT OPENING IN WALL ABOVE CEILING FOR RETURN AIR PATH IN CHASE. RETURN AIR PATH THROUGH CHASE UP TO LEVEL ABOVE.
5. MAINTAIN 11 SQ FT OPENING IN WALL ABOVE CEILING FOR RETURN AIR PATH IN CHASE. RETURN AIR PATH THROUGH CHASE UP TO LEVEL ABOVE.




1 BASEMENT MECHANICAL ZONE PLAN
3/32" = 1'-0"




2 LEVEL 1 MECHANICAL ZONE PLAN
3/32" = 1'-0"


JACOBY ARCHITECTS

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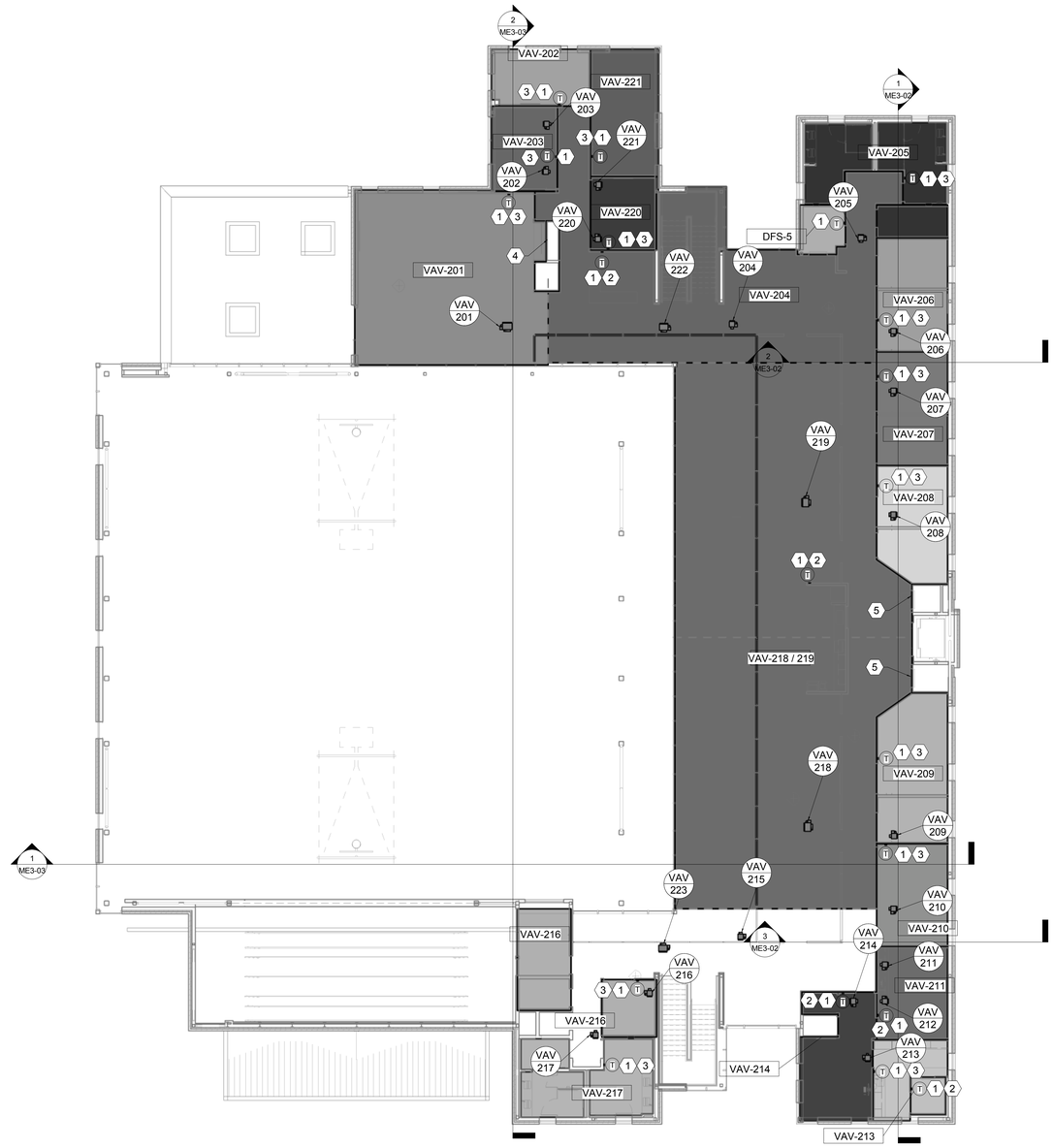
BASEMENT AND LEVEL 1 HVAC ZONE PLAN

ME1-21

## SHEET NOTES

1. PROVIDE FULLY PROGRAMMABLE DDC THERMOSTAT FOR EACH ZONE TO ASSOCIATED VAV BOX AS CALLED OUT ON ZONE PLANS.
2. PROVIDE CO2 SENSOR IN EACH ROOM WHERE THERE IS NOT ELECTRICAL PROVIDED OCCUPANCY SENSORS FOR VENTILATION CONTROL, TYPICAL. COORDINATE WITH ELECTRICAL DRAWINGS FOR LIGHTING OCCUPANCY SENSORS LOCATIONS.
3. TIE VAV ZONE INTO LIGHTING OCCUPANCY SENSOR BY ELECTRICAL. PROVIDE RELAYS FOR ALL ZONES WITH MORE THAN 1 OCCUPANCY SENSORS. COORDINATE WITH ELECTRICAL DRAWINGS FOR LIGHTING OCCUPANCY SENSOR LOCATIONS.
4. MAINTAIN 6 SQ FT OPENING IN WALL ABOVE CEILING FOR RETURN AIR PATH IN CHASE. RETURN AIR PATH THROUGH CHASE UP FROM LEVEL BELOW, THROUGH PLENUM CEILING OF THIS LEVEL TO AIR HANDLER, AH-1, UP ON ROOF.
5. MAINTAIN 11 SQ FT OPENING IN WALL ABOVE CEILING FOR RETURN AIR PATH IN CHASE. RETURN AIR PATH THROUGH CHASE UP FROM LEVEL BELOW THROUGH PLENUM CEILING SPACE OF THIS LEVEL TO AIR HANDLER, AH-1, UP ON ROOF.




1 LEVEL 2 MECHANICAL ZONE PLAN
3/32" = 1'-0"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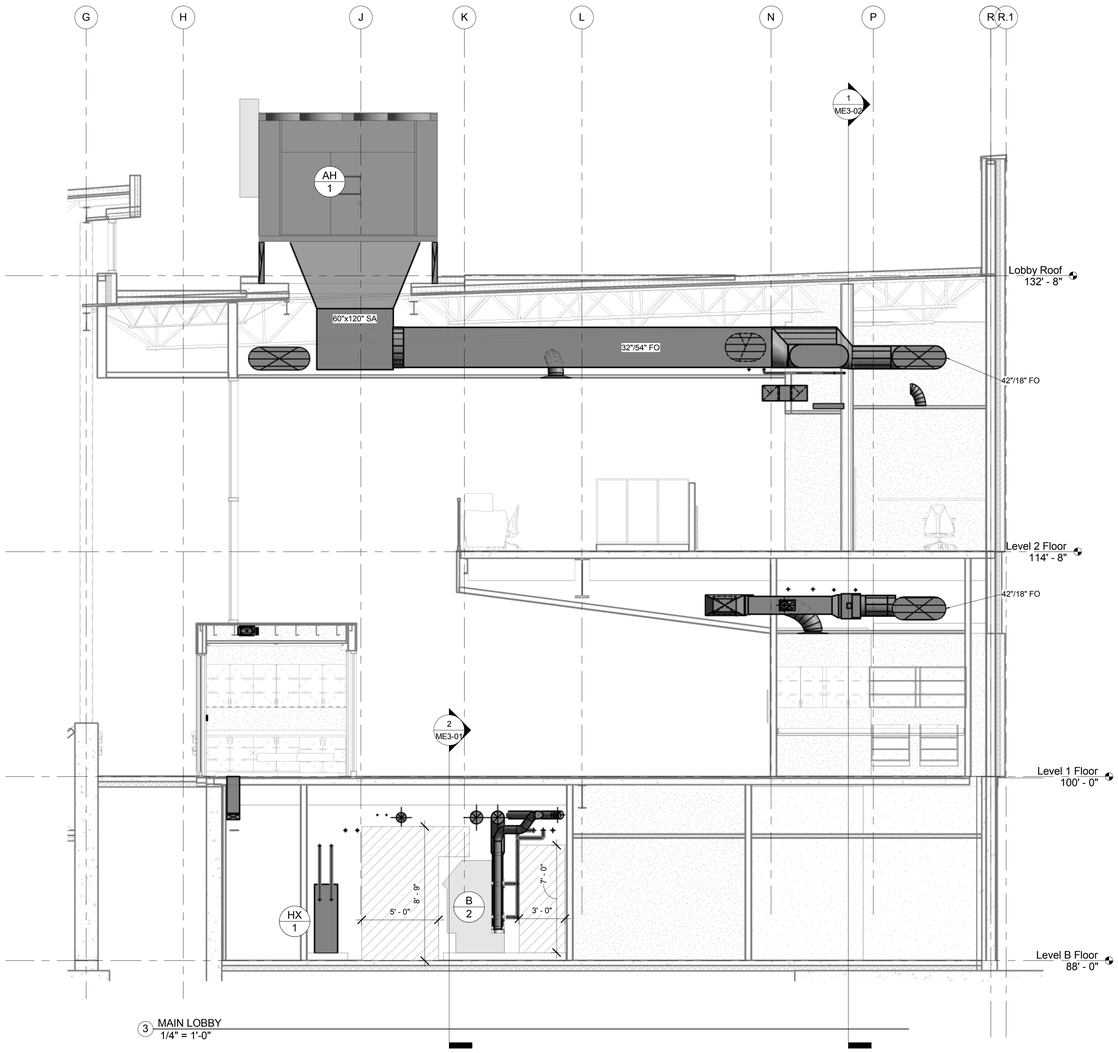
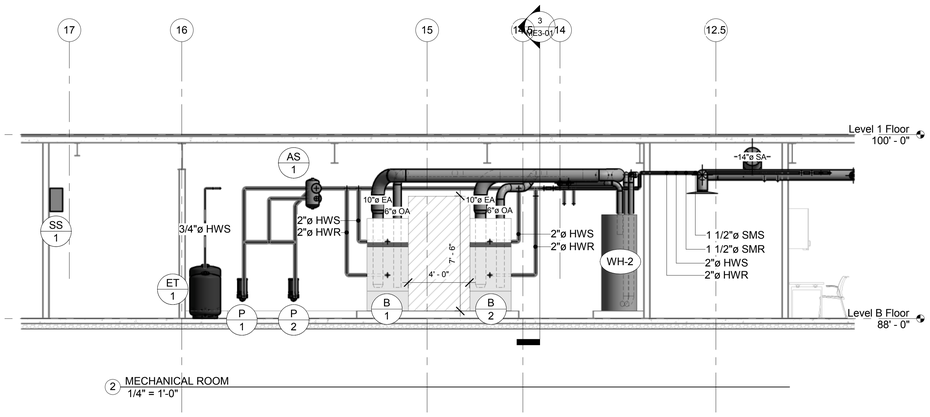
LEVEL 2 HVAC ZONE PLAN

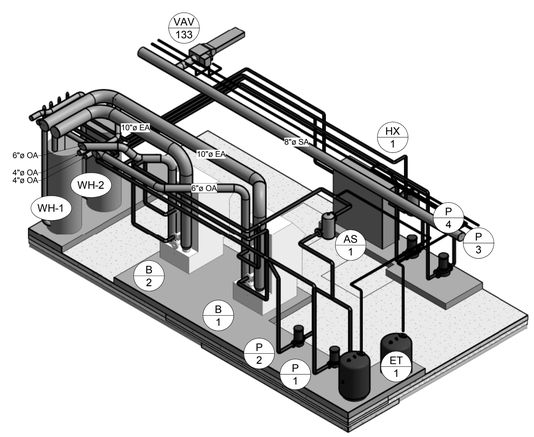
ME1-22



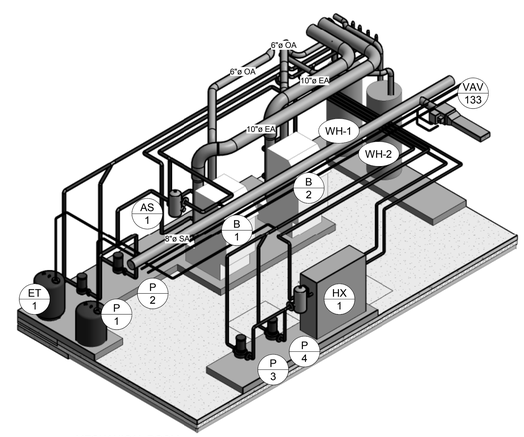

3 MAIN LOBBY
1/4" = 1'-0"




2 MECHANICAL ROOM
1/4" = 1'-0"




4 MECHANICAL ROOM VIEW 2




1 MECHANICAL ROOM


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

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ENGINEERING INC.
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DFCM # 14190230
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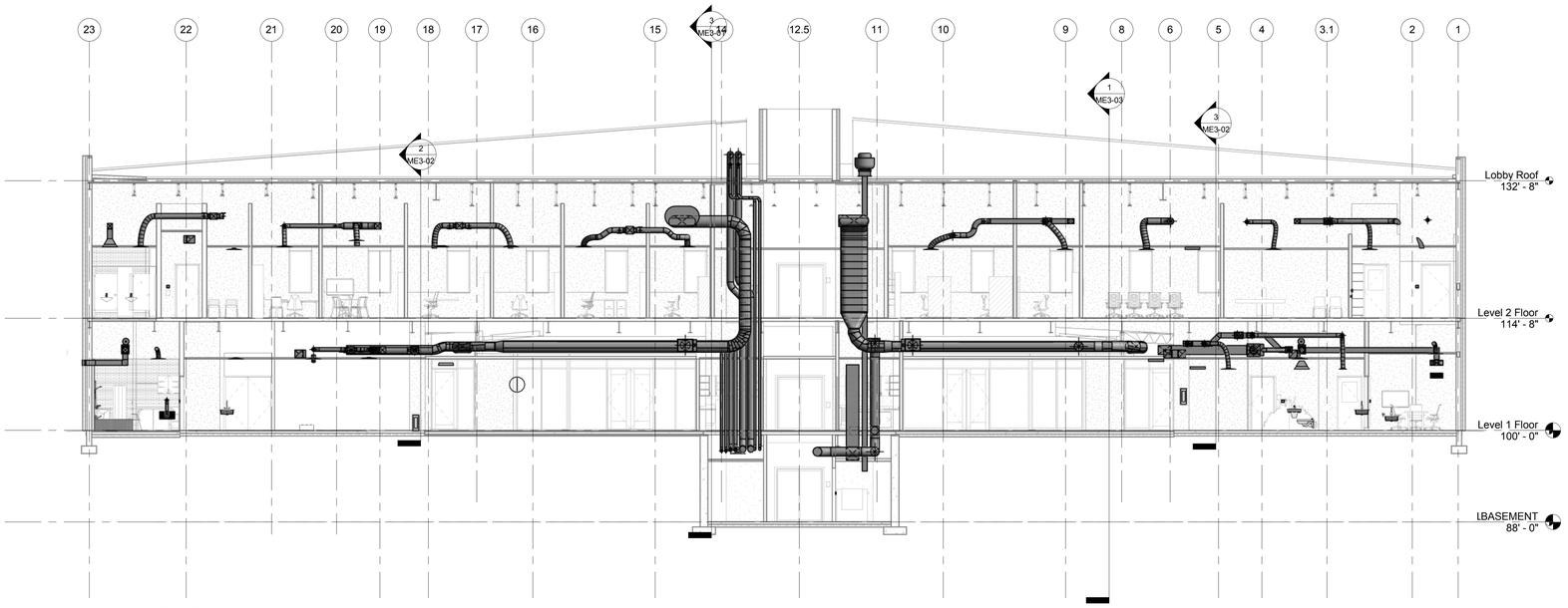
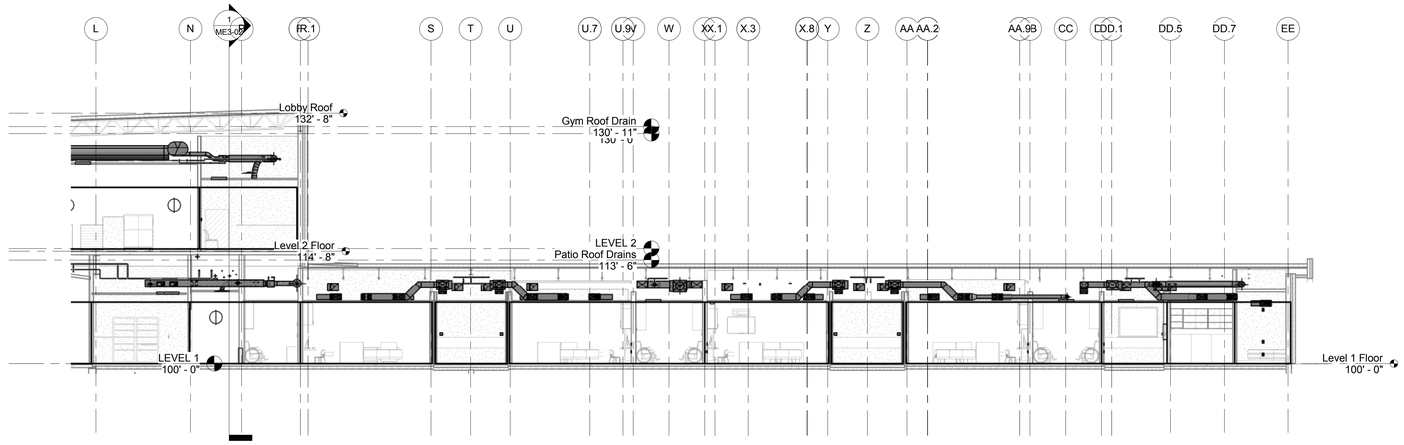
MECHANICAL ROOM SECTIONS

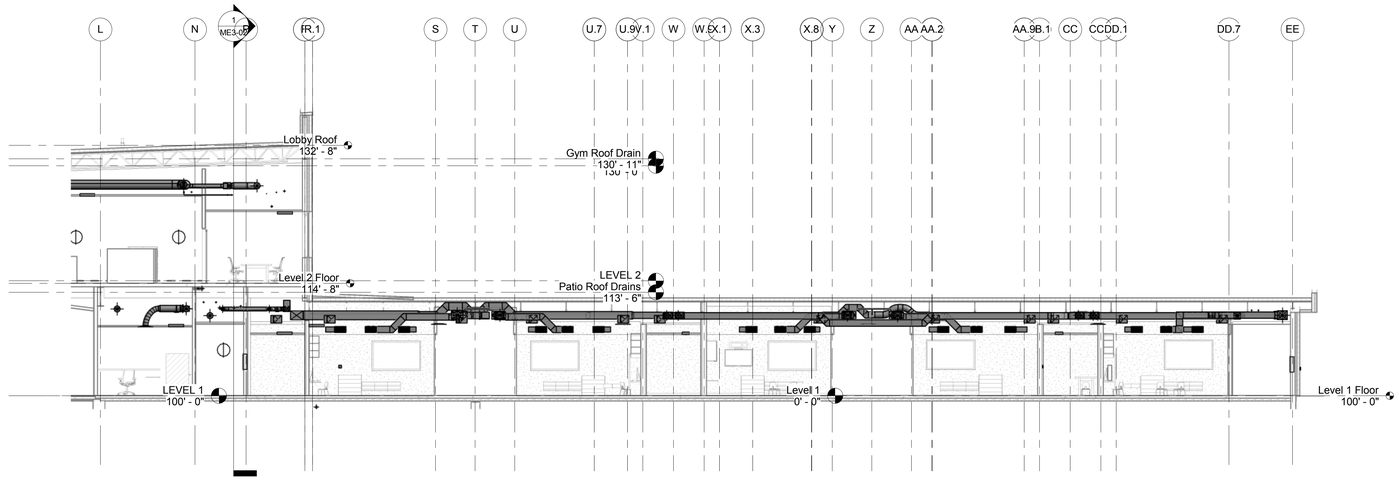
ME3-01




1 MAIN MECHANICAL SHAFTS
1/8" = 1'-0"




2 NORTH WING BUILDING SECTION
1/8" = 1'-0"




3 SOUTH WING BUILDING SECTION
1/8" = 1'-0"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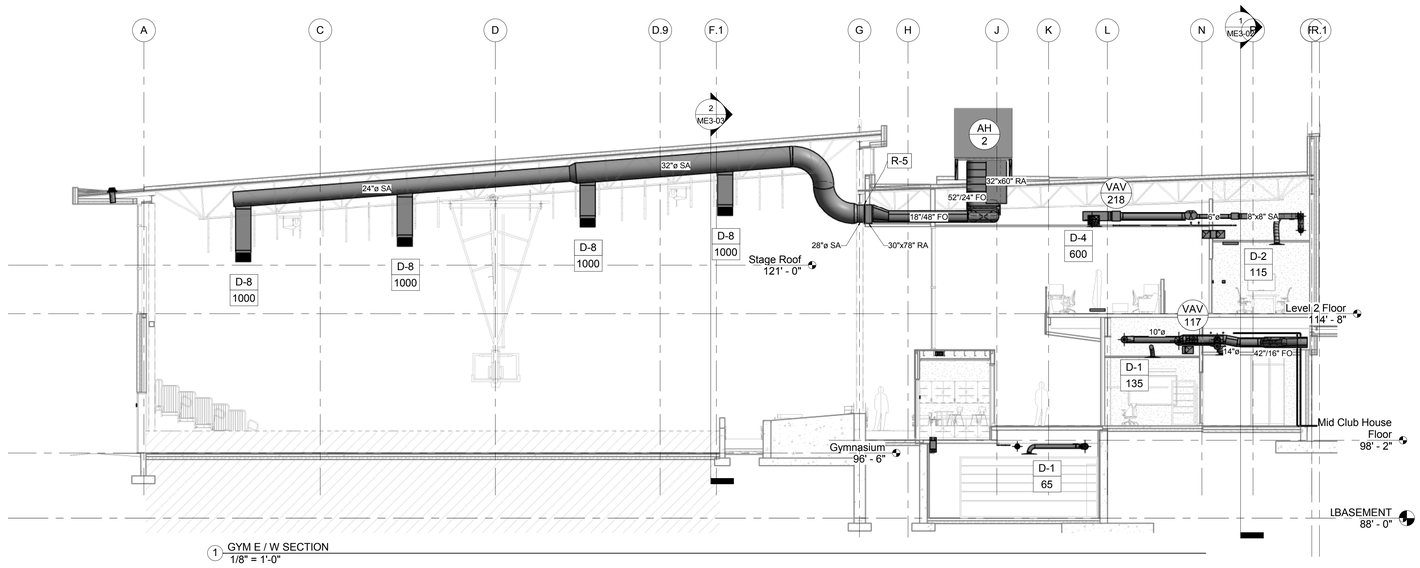
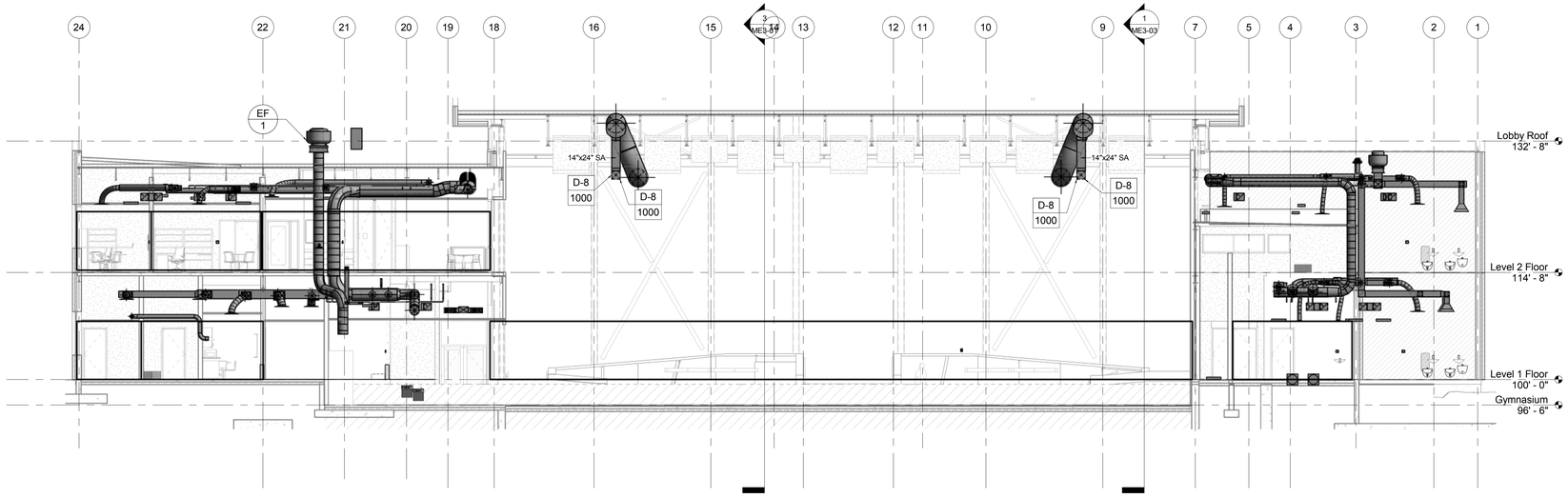
BUILDING MECHANICAL SECTIONS

ME3-02




1 GYM E / W SECTION
1/8" = 1'-0"




2 GYM N / S SECTION
1/8" = 1'-0"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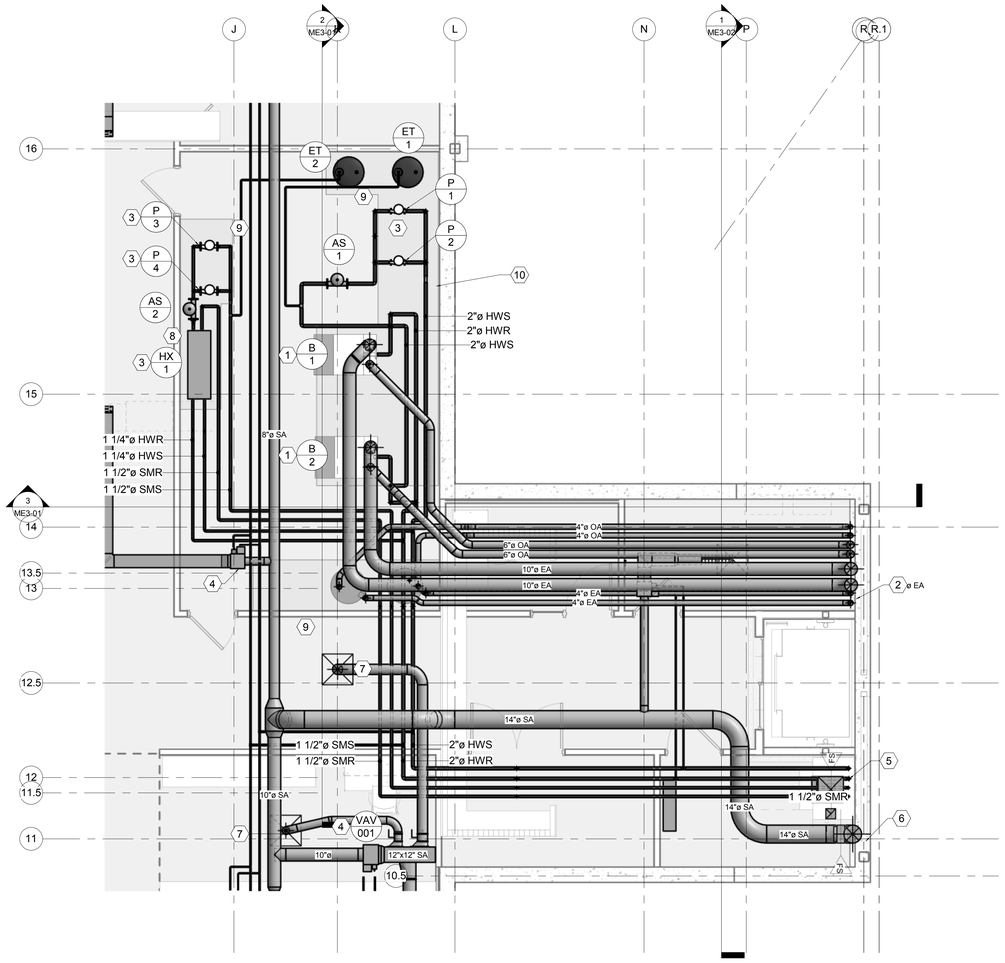
GYM AREA MECHANICAL SECTIONS

ME3-03

## SHEET NOTES

1. PROVIDE HIGH EFFICIENCY CONDENSING BOILERS. INSTALL PER MANUFACTURERS RECOMMENDATIONS. MAINTAIN ALL CLEARANCES. SEE FLOW SHEET AND DETAILS.
2. PROVIDE GALVANIZED COMBUSTION AIR DUCT AND AL-294C FLUE EXHAUST FOR BOILERS. PROVIDE PVC COMBUSTION AIR AND FLUE FOR WATER HEATERS. ROUTE TO SHAFT. SEE OTHER M SHEETS FOR CONTINUATION. INCLUDE CONDENSATE DRAIN AND NEUTRALIZATION. COORDINATE WITH MANUFACTURER TO PROVIDE VERIFIED SIZING FOR LONG LENGTH FLUE APPLICATIONS.
3. PROVIDE PUMPS, AIR SEPERATOR, EXPANSION TANK, ETC. FOR HEATING WATER SYSTEM. SEE FLOW SHEET.
4. PROVIDE VAV BOX, SEE SHEET ME1-00 FOR DUCTWORK, AND DETAILS FOR PIPING.
5. PROVIDE PIPING TO UPPER LEVELS, SEE SHEET ME1-11 FOR CONTINUATION.
6. SUPPLY DUCT FROM ABOVE, SEE SHEET ME1-01 FOR CONTINUATION.
7. SUPPLY AIR DIFFUSERS, SEE ME1-00 FOR HVAC PLAN OF THIS AREA .
8. PROVIDE SNOWMELT EXCHANGER, PUMPS, AND ACCESSORIES. SEE DETAILS AND FLOW SHEET.
9. PROVIDE 6" HOUSEKEEPING PADS FOR EQUIPMENT IN MECHANICAL ROOM. SEE DETAILS.
10. PROVIDE ATC PANEL IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION.




1 LARGE SCALE BASEMENT MECHANICAL PLAN
1/4" = 1'-0"


JACOBY ARCHITECTS

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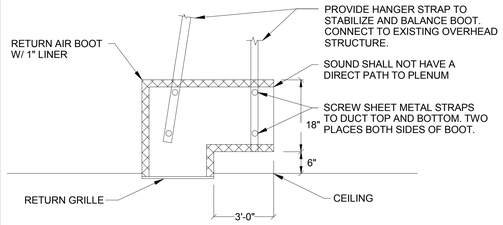
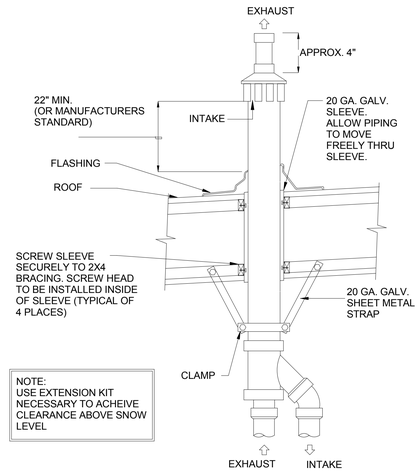
BASEMENT LEVEL MECHANICAL PLAN

ME4-01



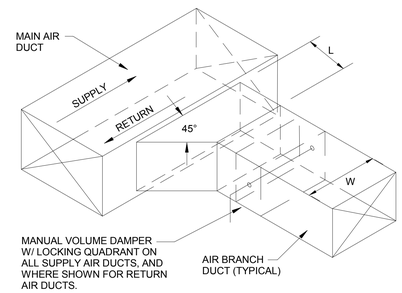

11 RETURN AIR BOOT DETAIL
SCALE: NONE




NOTE:
USE EXTENSION KIT NECESSARY TO ACHEIVE CLEARANCE ABOVE SNOW LEVEL

8 CONCENTRIC ROOF TERMINATION DETAIL
SCALE: NONE

NOTE:
1. DUCT SHALL BE WRAPPED EXTERNALLY.
2. L=1/4 W (4" MINIMUM.)



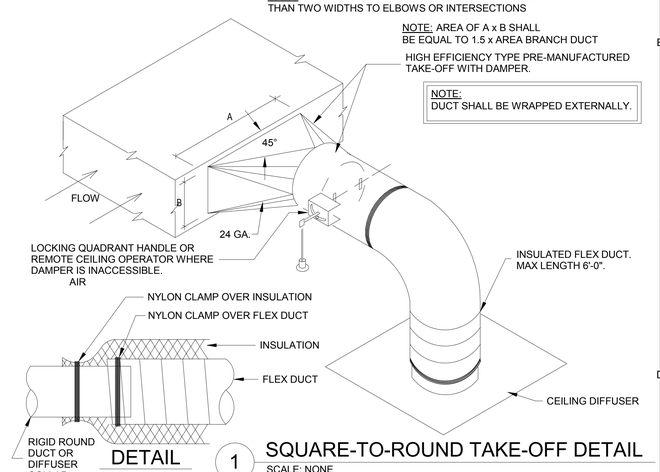

5 BRANCH DUCT TAKE-OFF & DAMPER DETAIL
SCALE: NONE

NOTE: TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS OR INTERSECTIONS

NOTE: AREA OF A x B SHALL BE EQUAL TO 1.5 x AREA BRANCH DUCT

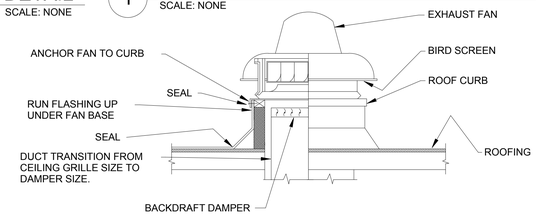
HIGH EFFICIENCY TYPE PRE-MANUFACTURED TAKE-OFF WITH DAMPER.

NOTE:
DUCT SHALL BE WRAPPED EXTERNALLY.



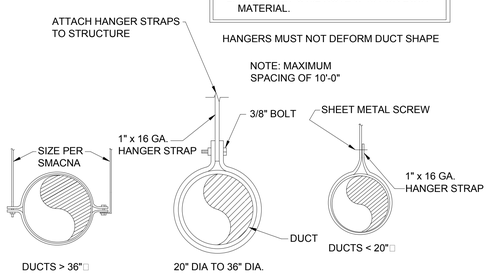

DETAIL
SCALE: NONE

1 SQUARE-TO-ROUND TAKE-OFF DETAIL
SCALE: NONE

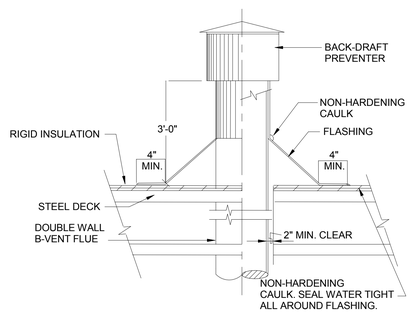



2 ROOF MOUNTED EXHAUST FAN DETAIL
SCALE: NONE

NOTE:
1. DUCT SHALL BE WRAPPED EXTERNALLY AS PER THE SPECIFICATIONS.
2. SEE SHEET G102 NOTE G-15 FOR DUCT MATERIAL.

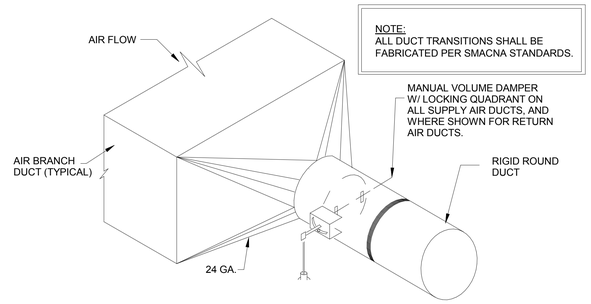



12 ROUND DUCT SUPPORT DETAIL
SCALE: NONE

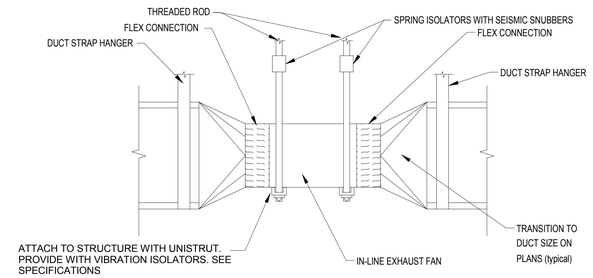



9 FLUE THRU ROOF DETAIL
SCALE: NONE

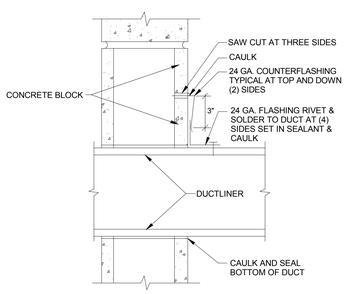
NOTE:
ALL DUCT TRANSITIONS SHALL BE FABRICATED PER SMACNA STANDARDS.



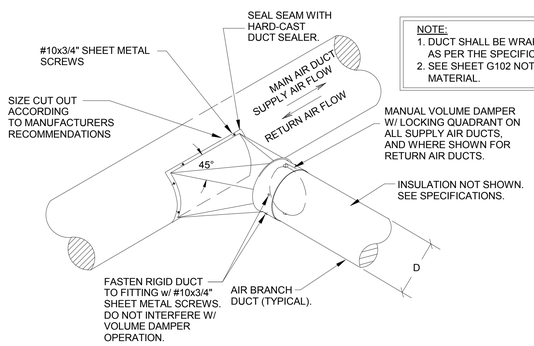

6 RECTANGULAR-TO-ROUND DUCT CONSTRUCTION DETAIL
SCALE: NONE




3 INLINE EXHAUST FAN DETAIL
SCALE: NONE

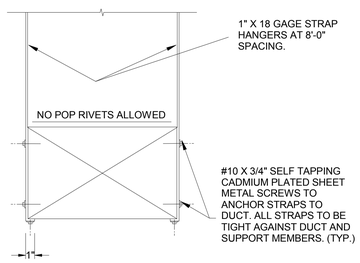



13 DUCT THRU WALL DETAIL
SCALE: NONE




NOTE:
1. DUCT SHALL BE WRAPPED EXTERNALLY AS PER THE SPECIFICATIONS.
2. SEE SHEET G102 NOTE G-15 FOR DUCT MATERIAL.

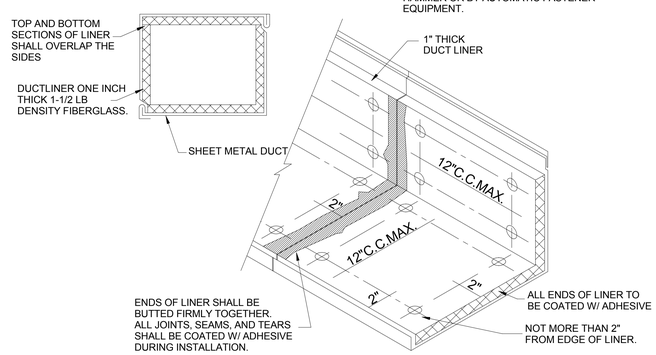
10 ROUND-TO-ROUND DUCT CONSTRUCTION DETAIL
SCALE: NONE




7 DUCT STRAP HANGER DETAIL
SCALE: NONE

METAL FASTENERS

INSULATED PINS, FASTENERS OR GRIP NAILS. GRIP NAILS SHALL BE INSTALLED BY AIR HAMMER OR BY AUTOMATIC FASTENER EQUIPMENT.




4 DUCT LINER DETAIL
SCALE: NONE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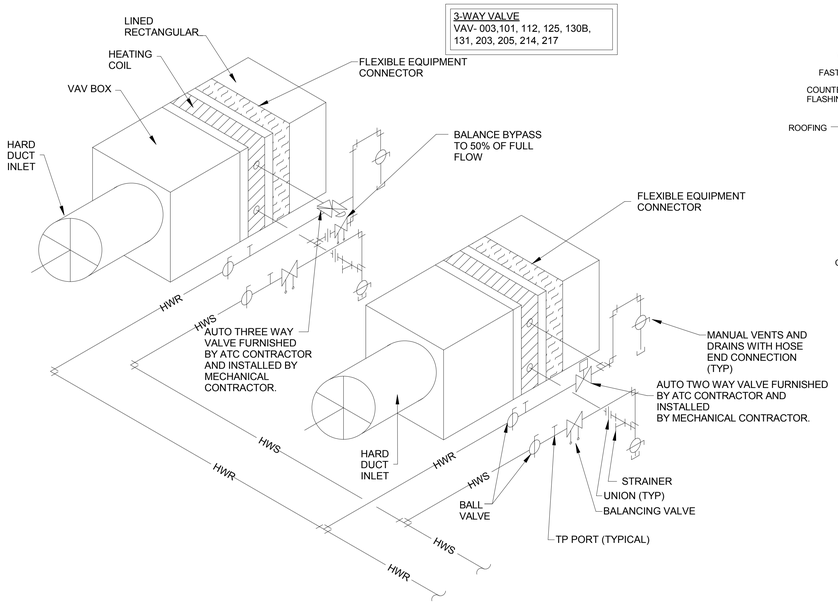
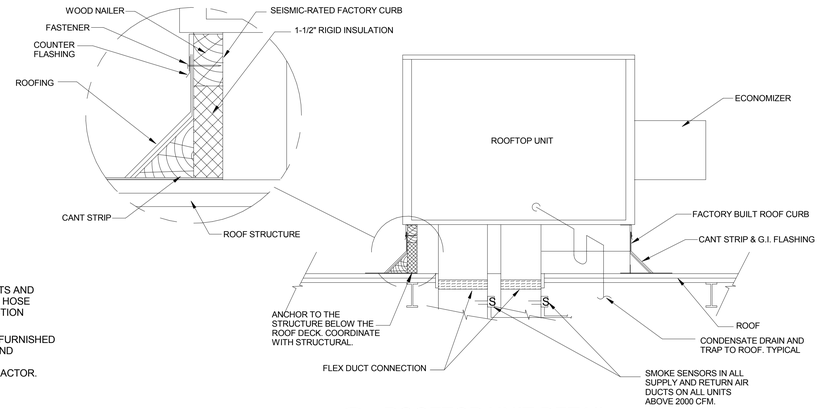
MECHANICAL DETAILS

ME5-01



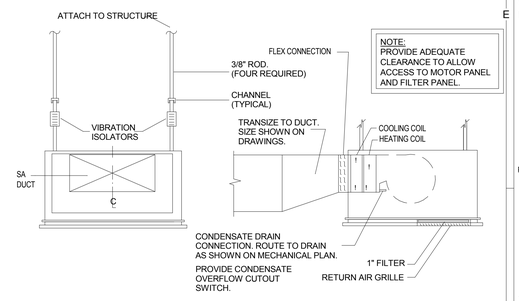

## 8 VAV BOX (W/ RE-HEATING COIL) HOT WATER PIPING DETAIL

SCALE: NONE




## 4 ROOFTOP UNIT DETAIL

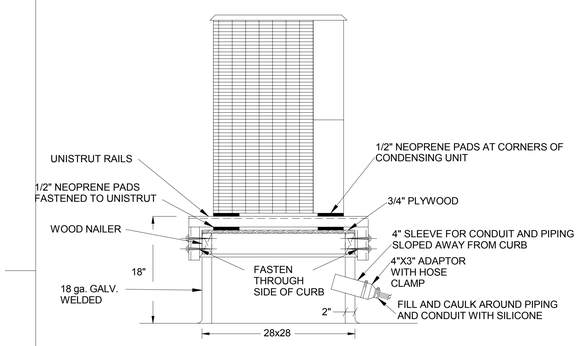
SCALE: NONE




NOTE:
PROVIDE ADEQUATE CLEARANCE TO ALLOW ACCESS TO MOTOR PANEL AND FILTER PANEL.

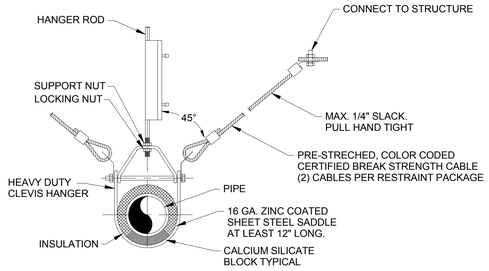
## 1 FAN COIL UNIT DETAIL

SCALE: NONE



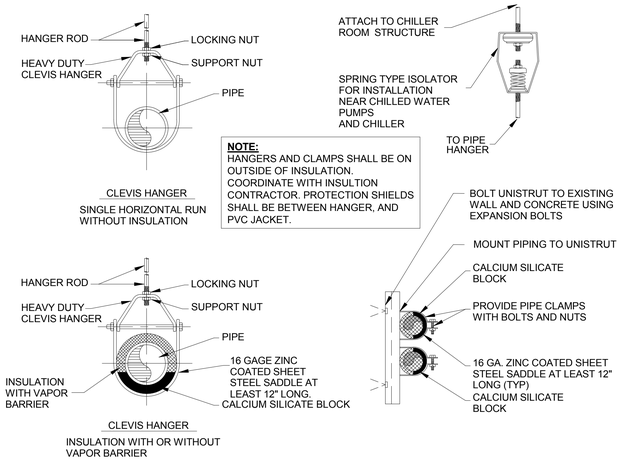

## 9 ROOF MOUNTED EQUIPMENT CURB DETAIL

SCALE: NONE




## 5 SEISMIC SWAY BRACING DETAILS

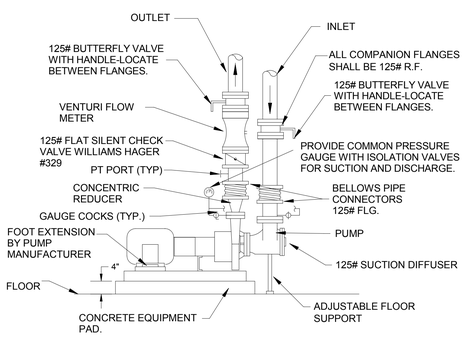
SCALE: NONE




NOTE:
HANGERS AND CLAMPS SHALL BE ON OUTSIDE OF INSULATION. COORDINATE WITH INSULTION CONTRACTOR. PROTECTION SHIELDS SHALL BE BETWEEN HANGER, AND PVC JACKET.

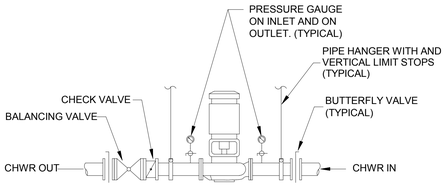
## 2 PIPE HANGER DETAIL

SCALE: NONE




## 10 BASE MTD. VARIABLE FLOW PUMP PIPING DETAIL

SCALE: NONE




## 7 IN-LINE PUMP DETAIL

SCALE: NONE

### LOW PRESSURE ROUND DUCT CONSTRUCTION SCHEDULE

| DUCT DIAMETER IN INCHES | MAXIMUM 2" W.G. STATIC POSITIVE | | MAXIMUM 2" W.G. STATIC NEGATIVE | |
|---|---|---|---|---|
| | SPIRAL SEAM GAUGE | LONGITUDINAL SEAM GAUGE | SPIRAL SEAM GAUGE | LONGITUDINAL SEAM GAUGE |
| 3 thru 8 | 28 | 28 | 28 | 24 |
| 9 thru 14 | 28 | 26 | 26 | 24 |
| 15 thru 26 | 26 | 24 | 24 | 22 |
| 27 thru 36 | 24 | 22 | 22 | 20 |
| 37 thru 50 | 22 | 20 | 20 | 18 |

1. SEE SHEET G102 NOTE G-15 FOR DUCT MATERIALS.

## 6 LOW PRESSURE ROUND DUCT CONSTRUCTION DETAIL

SCALE: NONE

| DIMENSION OF LONGEST SIDE, INCHES | SHEET METAL GAGE (ALL FOUR SIDES) | MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING | TRANSVERSE REINFORCING (1) AT JOINTS | | | | |
|---|---|---|---|---|---|---|---|
| | | | MIN. H. IN. | DRIVE SLIP / PLAIN S SLIP | HEMMED S SLIP | ALTER'NT BAR SLIP | REIN-FORCED BAR SLIP |
| | | | | RECOM-MENDED GAGE | RECOM-MENDED GAGE | RECOM-MENDED GAGE | RECOM-MENDED GAGE |
| UP THRU 12 | 26 | NONE REQUIRED | 1 | 26 | 26 | 24 | 24 |
| 13 - 18 | 24 | NONE REQUIRED | 1 | 24 | 24 | 24 | 24 |
| 19 - 30 | 24 | 1"X1"X1/8" @ 60 IN | 1 | - | 24 | 24 | 24 |
| 31 - 36 | 22 | 1"X1"X1/8" @ 60 IN | 1 | - | - | 22 | 22 |

1. TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.
2. SEE SHEET G102 NOTE G-15 FOR DUCT MATERIALS.

## 3 DUCT CONSTRUCTION DETAIL

SCALE: NONE


JACOBY ARCHITECTS
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Salt Lake City
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801 363 1434
Project Number: 2014-07

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| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
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PROFESSIONAL ENGINEER
05/21/2015
WINWARD M. PACKER
No. 375080
STATE OF UTAH


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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building, Salt Lake City, Utah 84114 - 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

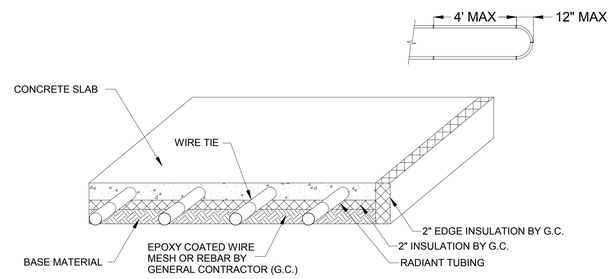
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

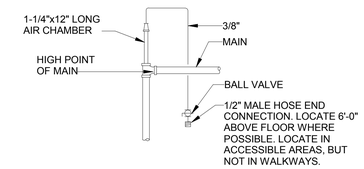
MECHANICAL DETAILS

ME5-02



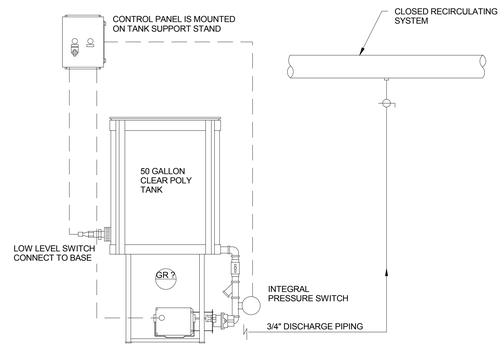

## 4 SLAB ON GRADE RADIANT TUBING INSTALLATION WITH INSULATION DETAIL

SCALE: NONE



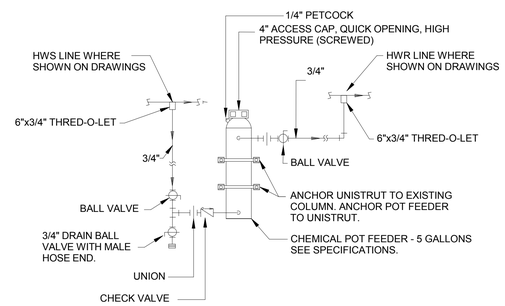

## 1 MANUAL AIR VENT DETAIL

SCALE: NONE



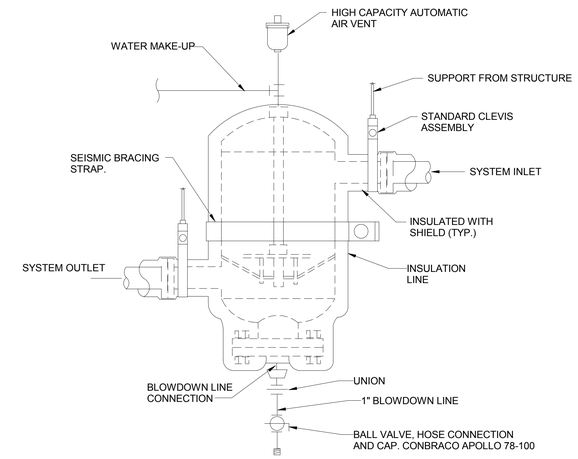

## 7 GLYCOL CHEMICAL FEED SYSTEM

SCALE: NONE



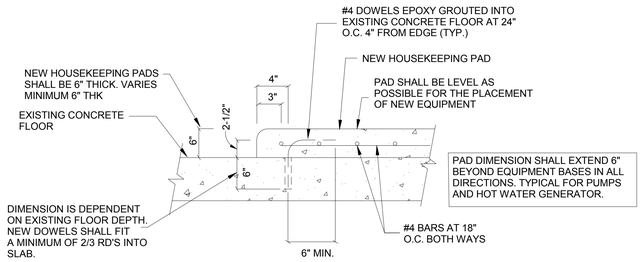

## 5 CHEMICAL TREATMENT PIPING SCHEME

SCALE: NONE



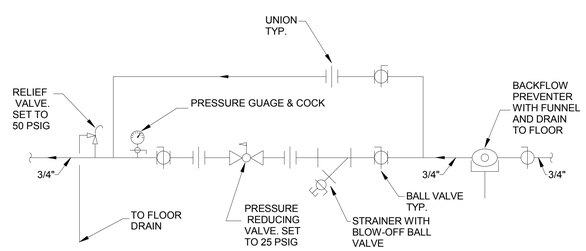

## 2 AIR ELIMINATOR TANK DETAIL

SCALE: NONE



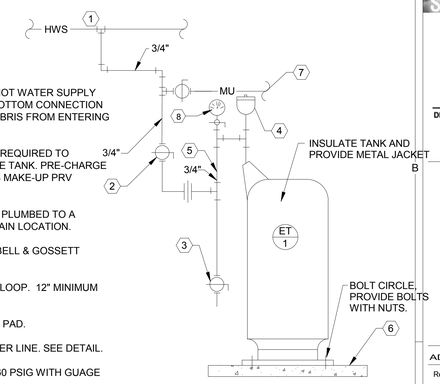

## HOUSEKEEPING PAD DETAIL

SCALE: NONE




## 6 MAKE-UP WATER PRV

SCALE: NONE




DETAIL NOTES:

1. CONNECT TO SIDE OF HOT WATER SUPPLY MAIN. AVOID TOP OR BOTTOM CONNECTION TO PREVENT AIR OR DEBRIS FROM ENTERING PIPE TO TANK.
2. SHUT OFF BALL VALVE. REQUIRED TO PROPERLY PRE-CHARGE TANK. PRE-CHARGE TO SAME PRESSURE AS MAKE-UP PRV SETTINGS.
3. DRAIN VALVE SHALL BE PLUMBED TO A WORKING BUILDING DRAIN LOCATION.
4. AUTOMATIC AIR VENT. BELL & GOSSETT MODEL #7 OR #87.
5. ANTI-THERMO-SYPHON LOOP. 12" MINIMUM DROP.
6. NEW 4" HOUSEKEEPING PAD.
7. NEW 3/4" MAKE-UP WATER LINE. SEE DETAIL.
8. PRESSURE GAUGE -O- 60 PSIG WITH GUAGE COCK.

## 3 EXPANSION TANK DETAIL

SCALE: NONE


JACOBY ARCHITECTS

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PROJECT

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| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

MECHANICAL DETAILS

ME5-03

# EVAPORATIVE CONDENSING PACKAGED ROOFTOP AIR HANDLING UNIT SCHEDULE

| SYMBOL | MIN VENTILATION O.A. CFM | MAX VENTILATION O.A. CFM | ECONOMIZER EVAP COOLER O.A. CFM | FAN MOTOR V/PH/HZ | SINGLE POINT CONNECTION | | SUPPLY FAN MOTOR | | | | | RELIEF FAN MOTOR | | | | | COOLING | | | | | HEATING NATURAL GAS | | | | MANUF. & MODEL # | WEIGHT | MAX DIMENSIONS: LENGTH / WIDTH / HEIGHT | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | MCA | MOCP | SUPPLY FANS | TOTAL CFM | ESP | HP | BHP | QTY. | TOTAL CFM | ESP | HP | BHP | TOTAL MBH | TONS COOLING | EADB/ EAWB | EER/ IEER | LADB/LAWB | MBH INPUT | MBH OUTPUT | EDB | LDB | | | | |
| AH 1 | 6,000 | 15,000 | 51,400 | 480/3/60 | 365 | 450 | 1 | 51,400 | 2.5" | 75 | 60.6 | 1 | 51,400 | 0.5" | 40 | 21.3 | 1741 | 128 | 80/64 | 14.0/14.5 | 59/56 | - - | - - | - - | - - | TRANE SF--128 | 27,000 | 554 / 140 / 104 | 1,2,3,4,5,6 |
| AH 2 | 2,000 | 4,000 | 16,000 | 480/3/60 | 128 | 150 | 1 | 16,000 | 1" | 25 | 20.3 | 1 | 16,000 | 0.5" | 10 | 4.3 | 574 | 48 | 80/64 | 14.0/15.5 | 59/56 | 707 | 580 | 60 | 100 | TRANE SFHLF48 | 11,000 | 395 / 94 / 101 | 1,2,3,4,5,6 |

1. PROVIDE UNIT PER SCHEDULED MANUFACTURER AND MODEL OR APPROVED EQUAL PER SEE SPECIFICATIONS. ANY CHANGES TO THE ELECTRICAL REQUIREMENTS SHALL BE COORDINATED WITH THE ELECTRICIAN PRIOR TO BID, AND THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM A DIFFERENT ARRANGEMENT.
2. PROVIDE AIR HANDLER WITH A PRIMARY VFD, AND BACK UP VFD FOR BOTH SUPPLY AND RELIEF FANS.
3. PROVIDE A SINGLE POINT ELECTRICAL CONNECTION AND 120 V POWER TO AHU LIGHTING AND OUTLETS. LIGHTING AND OUTLET CIRCUITS SHALL BE PRE-WIRED FOR A POINT OF CONNECTION TO THE ELECTRICAL.
4. PROVIDE SMOKE SENSORS IN ALL SUPPLY AND RETURN AIR DUCTS.
5. PROVIDE MERV 8 AIR FILTERS AS PRE-FILTER AND MERV 13 AIR FILTERS FOR PRIMARY FILTER FOR AIR HANDLING UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
6. PROVIDE WITH A PACKAGED EVAPORATIVE CONDENSING SECTION. COMPLETE WITH WATER TREATMENT, DISTRIBUTION, MEDIA, ETC. SEE SPECIFICATIONS.

# SPLIT SYSTEM SCHEDULE - OUTDOOR UNIT

| ITEM NO. | MANUFACTURER AND MODEL NO. | SERVING / LOCATION | COOLING CAPACITY MBH | SEER | | | | OPER WT. LBS. | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | MCA | MOCP | V-PH-Hz | | |
| CU 1 | FUJITSU AOU18RLX | SS-1 / ROOF | 18 | 19.2 | 14.5 | 30 | 208/1/60 | 120 | 1, 2, 3, 4, 5 |
| CU 2 | FUJITSU AOU18RLX | SS-2 / ROOF | 18 | 19.2 | 14.5 | 30 | 208/1/60 | 120 | 1, 2, 3, 4, 5 |
| CU 3 | FUJITSU AOU12RLFC | SS-3 / ROOF | 12 | 21.9 | 13.4 | 20 | 208/1/60 | 80 | 1, 2, 3, 4, 5 |

1. REFRIGERANT R410A
2. PROVIDE AS SCHEDULED, OR EQUAL PER SPECIFICATIONS.
3. COORDINATE WITH ELECTRICAL TO PROVIDE EMERGENCY POWER.
4. UNIT SHALL PROVIDE COOLING OPERATION AT 0 DEGREES LOW AMBIENT.
5. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT.

# SPLIT SYSTEM SCHEDULE - INDOOR UNIT

| ITEM NO. | MANUFACTURER AND MODEL NO. | SERVING | TYPE | CFM | CAPACITY BTU/HR | | ELECTRICAL | | | OPER WT. LBS. | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | COOLING | HEATING | MCA | MOCP | V-PH-Hz | | |
| SS 1 | FUJITSU ASU18RLF | DATA ROOM | WALL | 500 | 18,000 | 20,000 | 0.3 | N/A | 208/1/60 | 31 | 1, 2, 3, 4, 5 |
| SS 2 | FUJITSU ASU18RLF | ELEVATOR EQUIPMENT ROOM | WALL | 500 | 18,000 | 20,000 | 0.3 | N/A | 208/1/60 | 31 | 1, 2, 3, 4, 5 |
| SS 2 | FUJITSU ASU12RLF | KITCHEN PANTRY | CEILING CASSETTE | 312 | 12,000 | 16,000 | 0.3 | N/A | 208/1/60 | 18 | 1, 2, 3, 4, 5 |

1. REFRIGERANT R410A
2. PROVIDE WITH INTEGRAL CONDENSATE PUMP. ROUTE CONDENSATE LINE TO NEAREST FLOOR DRAIN.
3. PROVIDE WITH INDIVIDUAL ZONE THERMOSTAT.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. PROVIDE AS SCHEDULED, OR EQUAL PER SPECIFICATIONS.

# DIFFUSER SCHEDULE

| SYMBOL | TYPE | MAX CFM | FACE SIZE | NECK SIZE | CEILING TYPE | BLOW | MANUF. & MODEL # | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|
| D-1 CFM | CEILING | 100 | 24/24 | 6" | LAY-IN | 4--WAY | PRICE SPD | 1,2,3,4,5 |
| D-2 CFM | CEILING | 225 | 24/24 | 8" | LAY-IN | 4--WAY | PRICE SPD | 1,2,3,4,5 |
| D-3 CFM | CEILING | 400 | 24/24 | 10" | LAY-IN | 4--WAY | PRICE SPD | 1,2,3,4,5 |
| D-4 CFM | CEILING | 600 | 24/24 | 12" | LAY-IN | 4--WAY | PRICE SPD | 1,2,3,4,5 |
| D-5 CFM | CEILING | 750 | 24/24 | 14" | LAY-IN | 4--WAY | PRICE SPD | 1,2,3,4,5 |
| D-6 CFM | SIDEWALL | 550 | 16/8 | 16/8 | WALL | 2--WAY | PRICE 510 | 1,2,3,4,5 |
| D-7 CFM | SIDEWALL | 500 | 24/6 | 24/6 | WALL | N / A | PRICE LBP15B | 1,2,3,4,5,7 |
| D-8 CFM | SIDEWALL | 1000 | 22/16 | 22/16 | DUCT | SINGLE DEFLECTION | PRICE 99 | 1,2,3,4,5,6 |

1. PROVIDE LAY-IN CEILING AND BORDER / MODULE AS REQUIRED. SEE ARCHITECTURAL CEILING PLANS.
2. MAXIMUM NC 25 AT CFM LISTED. SEE PLAN VIEWS FOR MAX NC ≤ 20 AREAS.
3. PROVIDE DIFFUSERS AND GRILLES PER SCHEDULE OR APPROVED EQUAL PER SPECIFICATIONS.
4. PROVIDE TRANSITION TO DIFFUSER NECK SIZE AS REQUIRED TO DUCT WORK SHOWN ON PLAN.
5. FINISH SHALL BE STANDARD WHITE.
6. HEAVY DUTY GYM DIFFUSER.
7. PROVIDE LINEAR DIFFUSER WITH NO BORDER. MOUNT IN FLOATING CEILING WALL SPACE BETWEEN CEILINGS.

# EXHAUST FAN SCHEDULE

| SYMBOL | MANUFACTURER & MODEL No. | SERVES | TYPE | C.F.M. | STATIC PRESSURE IN. WG. | MOTOR | | | LENGTH / WIDTH / HEIGHT | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | V - PH - Hz | HP | RPM | | |
| EF 1 | COOK 180 ACW-HP | KITCHEN HOOD | UPBLAST ROOF MOUNTED DOME | 2040 | 1 | 208 - 3 - 60 | 1/2 | 1725 | 40 / 33 / 40 | 2,3 |
| EF 2 | COOK SQN120 | LOCKERS/ SHOWERS | BELT DRIVE INLINE | 1500 | 0.5 | 208 - 3 - 60 | 1/2 | 1725 | 22 / 22 / 31 | 1,2 |
| EF 3 | COOK SQN070 | RESTROOM | BELT DRIVE INLINE | 225 | 0.3 | 120 - 1 - 60 | 1/6 | 1725 | 22 / 22 / 26 | 1,2 |
| EF 4 | COOK SQN070 | RESTROOM | BELT DRIVE INLINE | 190 | 0.3 | 120 - 1 - 60 | 1/6 | 1725 | 22 / 22 / 26 | 1,2 |
| EF 5 | COOK SQN070 | RESTROOM | BELT DRIVE INLINE | 190 | 0.3 | 120 - 1 - 60 | 1/6 | 1725 | 22 / 22 / 26 | 1,2 |
| EF 6 | COOK SQN070 | RESTROOM | BELT DRIVE INLINE | 190 | 0.3 | 120 - 1 - 60 | 1/6 | 1725 | 22 / 22 / 26 | 1,2 |
| EF 7 | COOK SQN070 | RESTROOM | BELT DRIVE INLINE | 190 | 0.3 | 120 - 1 - 60 | 1/6 | 1725 | 22 / 22 / 26 | 1,2 |
| EF 8 | COOK SQN070 | RESTROOM | BELT DRIVE INLINE | 190 | 0.3 | 120 - 1 - 60 | 1/6 | 1725 | 22 / 22 / 26 | 1,2 |
| EF 9 | COOK SQN070 | RESTROOM | BELT DRIVE INLINE | 190 | 0.3 | 120 - 1 - 60 | 1/6 | 1725 | 22 / 22 / 26 | 1,2 |
| EF 10 | COOK SQN070 | RESTROOM | BELT DRIVE INLINE | 125 | 0.3 | 120 - 1 - 60 | 1/6 | 1725 | 22 / 22 / 26 | 1,2 |
| EF 11 | COOK 100 ACEB | NORTH RESTROOM GROUP | ROOF MOUNTED DOME | 550 | 0.4 | 120 - 1 - 60 | 1/6 | 1725 | 26 / 26 / 21 | 2 |
| EF 12 | COOK 120 ACEB | SOUTH RESTROOM GROUP | ROOF MOUNTED DOME | 1100 | 0.5 | 120 - 1 - 60 | 1/4 | 1725 | 30 / 30 / 29 | 2 |
| EF 13 | COOK 70 ACEB | TRASH | ROOF MOUNTED DOME | 225 | 0.3 | 120 - 1 - 60 | 1/6 | 1725 | 22 / 22 / 26 | 1,2 |

1. PROVIDE WITH SOUND INSULATED BOX, AND SPRING ISOLATORS.
2. PROVIDE EQUIPMENT PER SCHEDULES OR APPROVED EQUAL PER SPECIFICATIONS.
3. KITCHEN GREASE EXHAUST FAN. PROVIDE FAN RATED FOR KITCHEN, GREASE AND HIGH TEMPERATURES.

# REGISTER, LOUVER & GRILLE SCHEDULE

| SYMBOL | TYPE | SERVICE | MAX CFM | NOMINAL SIZE | THROAT SIZE | CEILING TYPE | MANUF. & MODEL # | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|
| R-1 | CEILING | RETURN | 1750 | 24/24 | 22/22 | LAY-IN | PRICE 535 | 1,2,3,4 |
| R-2 | CEILING | RETURN | 750 | 12/24 | 10/22 | LAY-IN | PRICE 535 | 1,2,3,4 |
| R-3 | WALL | RETURN | 150 | 10/6 | 10/6 | WALL | PRICE 510 | 1,2,3,4 |
| R-4 | WALL | RETURN | 400 | 16/8 | 16/8 | WALL | PRICE 510 | 1,2,3,4 |
| R-5 | WALL | RETURN | 8,000 | 66/30 | 66/30 | WALL | PRICE 97 | 1,2,3,4 |
| R-6 | CEILING | RETURN | 150 | 6/6 | 6/6 | WALL | PRICE 510 | 1,2,3,4 |
| EG-1 CFM | CEILING | EXHAUST | 800 | 24/24 | 12/12 | LAY-IN | PRICE 535 | 1,2,3,4 |
| L-1 | EXTERIOR WALL LOUVER | EXHAUST | 225 | 20 / 8 | 20 / 8 | N / A | RUSKIN BV100 | 2,4,5 |
| L-2 | EXTERIOR WALL LOUVER | EXHAUST | 1500 | 36 / 24 | 36 / 24 | N / A | RUSKIN ELF 6375DX | 2,4,5 |
| L-3 | EXTERIOR WALL LOUVER | COMBUSTION AIR | 1500 | 36 / 12 | 36 / 24 | N / A | RUSKIN ELF 6375DX | 2,4,5 |

1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED. SEE PLAN VIEWS FOR MAX NC ≤ 20 AREAS.
2. PROVIDE PER SCHEDULE OR APPROVED EQUAL. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
3. FINISH SHALL BE STANDARD WHITE.
4. PROVIDE TRANSITION TO DUCT SIZE SHOWN ON PLANS.
5. FINISH SHALL BE CUSTOM COLOR PER ARCHITECT. COORDINATE EXACT WALL BLOCKOUT DIMENSIONS WITH ARCHITECT.


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Project Number: 2014-07

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SHEET DATA

Drawn By: Author
Checked By: Checker

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4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

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DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|
| PLAN REVIEW | 05/11/15 |

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

MECHANICAL SCHEDULES

ME6-01

# BOILER SCHEDULE

| SYMBOL | LOCATION | MBH INPUT | MBH OUTPUT | WATER TEMP | | GPM | DELTA P FT | COMB. AIR DIAMETER | FLUE GAS DIAMETER | LENGTH / WIDTH / HEIGHT | OPERATION WEIGHT LBS | THERMAL EFFICIENCY (%) | COMBUSTION EFFICIENCY (%) | MAKE AND MODEL # | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | IN | OUT | | | | | | | | | | |
| B 1 | MECHANICAL ROOM | 750 | 655 | 120 | 160 | 35 | 15 | 1 @ 6" | 1 @ 8" | 49 / 33 / 72 | 1585 | 92.2 | 90.5 | CLEAVER-BROOKS CFC 750 | 1,2,3,4,5,6,7 |
| B 2 | MECHANICAL ROOM | 750 | 655 | 120 | 160 | 35 | 15 | 1 @ 6" | 1 @ 8" | 49 / 33 / 72 | 1585 | 92.2 | 90.5 | CLEAVER-BROOKS CFC 750 | 1,2,3,4,5,6,7 |

1. BOILER RATINGS ARE FOR ALTITUDE AT 4250'.
2. SEE SPECIFICATION FOR OTHER APPROVED MANUFACTURERS.
3. VERIFY AND MAKE NECESSARY MODIFICATIONS FOR FLUE SIZING WITH EACH BOILER MANUFACTURER AND INSTALL ACCORDINGLY.
4. SINGLE POINT CONNECTION: 120V / 1PH / 60 HZ @ 20 AMP
5. COORDINATE WITH ELECTRICAL TO PROVIDE EMERGENCY POWER.
6. BOILERS SIZED AT APPROXIMATELY 67% CAPACITY EACH OF MAX HEATING LOAD. MAX SYSTEM FLOW AT 52 GPM, SET BOILERS TO HALF OF TOTAL PUMP FLOW WHEN BOTH BOILERS ARE IN OPERATION.
7. PROVIDE WITH BOILER CONTROL PACKAGE TO SEQUENCE BOILERS, AND RE-SET TEMPERATURE BASED ON OUTSIDE AIR. PROVIDE DDC BACNET INTERFACE SO BMS CAN MONITOR STATUS, HWS, HWR, AND ALARMS.

# PUMP SCHEDULE

| SYMBOL | TYPE | MAKE / MODEL | SERVICE | GPM | FT. HEAD | SUCTION SIZE | DISCHARGE SIZE | IMPELLER SIZE | MOTOR | | | | WEIGHT LBS | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | V - PH - Hz | HP | BHP | RPM | | |
| P 1 | VERTICAL INLINE BASE MOUNTED | BELL & GOSSETT e-1510-1.25 | BOILERS | 26 | 55 | 1.5" | 1.25" | 6.875" | 460/3/60 | 1.5 | 1.01 | 1725 | 90 | 1,2,3,4,5,6 |
| P 2 | VERTICAL INLINE BASE MOUNTED | BELL & GOSSETT e-1510-1.25 | BOILERS | 26 | 55 | 1.5" | 1.25" | 6.875" | 460/3/60 | 1.5 | 1.01 | 1725 | 90 | 1,2,3,4,5,6 |
| P 3 | VERTICAL INLINE CLOSED COUPLED | BELL & GOSSETT e-90-1AAB | SNOW MELT | 18 | 25 | 1" | 1" | 5.125" | 120/1/60 | 0.5 | 0.23 | 1725 | 55 | 1,2,3,7 |
| P 4 | VERTICAL INLINE CLOSED COUPLED | BELL & GOSSETT e-90-1AAB | SNOW MELT | 18 | 25 | 1" | 1" | 5.125" | 120/1/60 | 0.5 | 0.23 | 1725 | 55 | 1,2,3,7 |

1. PROVIDE REMOVABLE INSULATION KIT AROUND PUMP SUCTION.
2. ALL PUMPS SHALL BE SIZED IN THE FLAT PART OF THE CURVE. SEE DETAIL.
3. PROVIDE EQUIPMENT PER SCHEDULE MANUFACTURER OR EQUAL
PER SPECIFICATIONS.
4. VFD BY DIVISION 26.
5. COORDINATE WITH ELECTRICAL TO PROVIDE EMERGENCY POWER.
6. PUMPS SIZED AT 50% OF FULL LOAD. PUMPS TO OPERATE IN PARALLEL AND RUN SIMULTANEOUSLY.
7. SIZE SNOW MELT PUMPS FOR 50% GLYCOL.

# BRAZED PLATE HEAT EXCHANGER SCHEDULE

| SYMBOL | MBH | COLD SIDE | | | | HOT SIDE | | | | DIMENSIONS | | | MAKE AND MODEL | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GPM | T IN | T OUT | WPD (PSI) | GPM | T IN | T OUT | WPD (PSI) | L (in.) | W (in.) | H (in.) | | |
| HX 1 | 260 | 18 | 86 | 116 | .75 | 13 | 160 | 120 | 0.75 | 4 | 9.6 | 24 | SONDEX | 1,2 |

1. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
2. SIZE FOR 50% PROPYLENE GLYCOL.

# EXPANSION TANK SCHEDULE

| SYMBOL | MINIMUM TANK / ACCEPTANCE VOLUME (GAL) | HEIGHT/ DIAMETER | MINIMUM FILL PRESSURE (PSIG) | MAXIMUM WORKING PRESSURE (PSIG) | RELIEF VALVE PRESSURE (PSIG) | MANUFACTURER & MODEL | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|
| ET 1 | 44/22 | 56/16 | 25 | 35 | 50 | B&G D-80V | 1 |
| ET 2 | 21/11 | 30/16 | 12 | 20 | 30 | B&G D-40V | 1 |

1. FOR OTHER APPROVED MANUFACTURERS SEE SPECIFICATIONS.

# AIR SEPARATOR SCHEDULE

| SYMBOL | CAPACITY GPM | PIPE SIZE | HEAD LOSS (FT) | HEIGHT/ DIAMETER | SERVICE | MANUF. & MODEL | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|
| AS 1 | 52 | 2" | 2 | 25/7 | BOILER SYSTEM | SPIROTHERM VHR-200 | 1 |
| AS 2 | 35 | 1.5" | 2 | 20 | SNOWMELT | SPIROTHERM VJR-150 | 1 |

1. FOR OTHER APPROVED MANUFACTURERS SEE SPECIFICATIONS.

# HOT WATER UNIT HEATER SCHEDULE

| SYMBOL | BTU OUTPUT | GPM | PRESS. DROP PSI | WATTS | V / PH / Hz | WEIGHT | MANUF. & MODEL # | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|
| UH 1 | 20,000 | 2 | 0.5 | 50 | 120 / 1 / 60 | 170 | UNITAIRE CRBB06 | 1,2,3 |
| UH 2 | 20,000 | 2 | 0.5 | 50 | 120 / 1 / 60 | 170 | UNITAIRE CRBB06 | 1,2,3 |

1. SIZE BASE ON 160°F EWT, 60°F EAT, 40°F WATER DROP
2. FAN TO BE SET AT MEDIUM SPEED.
3. UNIT TO BE PROVIDED WITH 2 ROW HEATING COIL.


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801 363 1434
Project Number: 2014-07

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| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrziewski Designs - 801.582.9747 |

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PROFESSIONAL ENGINEER
05/21/2015
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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building, Salt Lake City, Utah 84114-1204 801-538-3018
DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|
| PLAN REVIEW | 05/11/15 |

ISSUE/PHASE

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| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

MECHANICAL SCHEDULES

ME6-02

# VAV BOX SCHEDULE

| SYMBOL | INLET DIA. (INCHES) | COOLING | | | HEATING (40° WATER SIDE DELTA T) | | | | | | | | | MAX NC LEVEL | MANUF. MODEL # | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MAX CFM | MIN CFM | MX APD (IN) | COIL EAT | COIL LAT | MAX CFM | COIL MBH | FLOW GPM | PIPE SIZE | EWT | (FT) PD | ROWS | | | |
| VAV 001 | 8 | 590 | 225 | 0.65 | 40 | 90 | 590 | 30 | 1.5 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV08 | 1,2,3,4 |
| VAV 002 | 6 | 190 | 65 | 0.65 | 40 | 90 | 190 | 10 | 0.5 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 003 | 6 | 70 | 65 | 0.65 | 40 | 90 | 70 | 4 | 0.25 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4,5 |
| | | | | | | | | | | | | | | | | |
| VAV 101 | 8 | 550 | 135 | 0.65 | 40 | 90 | 550 | 27.8 | 1.5 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV08 | 1,2,3,4,5 |
| VAV 102 | 8 | 560 | 135 | 0.65 | 40 | 90 | 560 | 28.3 | 1.5 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV08 | 1,2,3,4 |
| VAV 103a | 12 | 1500 | 800 | 0.65 | 40 | 90 | 1500 | 75 | 4 | 1" | 160 | 1.5 | 2 | 25 | PRICE SDV12 | 1,2,3,4 |
| VAV 103b | 12 | 1500 | 800 | 0.65 | 40 | 90 | 1500 | 75 | 4 | 1" | 160 | 1.5 | 2 | 25 | PRICE SDV12 | 1,2,3,4 |
| VAV 104 | 6 | 325 | 65 | 0.65 | 40 | 90 | 325 | 16.4 | 0.75 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 105 | 8 | 450 | 135 | 0.65 | 40 | 90 | 450 | 22.8 | 1.25 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV08 | 1,2,3,4 |
| VAV 106 | 6 | 270 | 65 | 0.65 | 40 | 90 | 270 | 13.7 | 0.75 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 107 | 10 | 1020 | 305 | 0.65 | 40 | 90 | 955 | 51.6 | 2.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV10 | 1,2,3,4 |
| VAV 108 | 10 | 900 | 305 | 0.65 | 40 | 90 | 885 | 45.5 | 2.5 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV10 | 1,2,3,4 |
| VAV 109 | 10 | 970 | 305 | 0.65 | 40 | 90 | 970 | 49.1 | 2.5 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV10 | 1,2,3,4 |
| VAV 110 | 10 | 1020 | 305 | 0.65 | 40 | 90 | 1020 | 51.6 | 2.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV10 | 1,2,3,4 |
| VAV 111 | 10 | 1030 | 305 | 0.65 | 40 | 90 | 1030 | 52.1 | 2.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV10 | 1,2,3,4 |
| VAV 112 | 6 | 360 | 65 | 0.65 | 40 | 90 | 360 | 18.2 | 1 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4,5 |
| VAV 113 | 14 | 1920 | 305 | 0.65 | 40 | 90 | 1920 | 97.1 | 5.25 | 1" | 160 | 1.5 | 2 | 25 | PRICE SDV14 | 1,2,3,4 |
| VAV 114 | 8 | 305 | 135 | 0.65 | 40 | 90 | 305 | 15.4 | 0.75 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV08 | 1,2,3,4 |
| VAV 115 | 10 | 1000 | 305 | 0.65 | 40 | 90 | 1020 | 50.6 | 2.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV10 | 1,2,3,4 |
| VAV 116A | 16 | 2600 | 570 | 0.65 | 40 | 90 | 2600 | 131.5 | 7 | 1 1/4" | 160 | 1.5 | 2 | 25 | PRICE SDV16 | 1,2,3,4 |
| VAV 116B | 16 | 2600 | 570 | 0.65 | 40 | 90 | 2600 | 131.5 | 7 | 1 1/4" | 160 | 1.5 | 2 | 25 | PRICE SDV16 | 1,2,3,4 |
| VAV 117 | 8 | 435 | 135 | 0.65 | 40 | 90 | 435 | 22 | 1.25 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV08 | 1,2,3,4 |
| VAV 118 | 6 | 230 | 65 | 0.65 | 40 | 90 | 230 | 11.6 | 0.5 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 119 | 8 | 390 | 135 | 0.65 | 40 | 90 | 390 | 19.7 | 1 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV08 | 1,2,3,4 |
| VAV 120 | 6 | 240 | 65 | 0.65 | 40 | 90 | 240 | 12.1 | 0.75 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 121 | 14 | 1920 | 305 | 0.65 | 40 | 90 | 1960 | 97.1 | 5.25 | 1" | 160 | 1.5 | 2 | 25 | PRICE SDV14 | 1,2,3,4 |
| VAV 122 | 10 | 1060 | 225 | 0.65 | 40 | 90 | 1060 | 53.6 | 2.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV10 | 1,2,3,4 |
| VAV 123 | 10 | 950 | 225 | 0.65 | 40 | 90 | 950 | 48 | 2.5 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV10 | 1,2,3,4 |
| VAV 124 | 10 | 1060 | 225 | 0.65 | 40 | 90 | 1060 | 53.6 | 2.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV10 | 1,2,3,4 |
| VAV 125 | 10 | 1060 | 225 | 0.65 | 40 | 90 | 1060 | 53.6 | 2.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV10 | 1,2,3,4,5 |
| VAV 126 | 6 | 360 | 65 | 0.65 | 40 | 90 | 360 | 18.2 | 1 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 127 | 12 | 1825 | 305 | 0.65 | 40 | 90 | 1825 | 92.3 | 5 | 1" | 160 | 1.5 | 2 | 25 | PRICE SDV12 | 1,2,3,4 |
| VAV 128 | 10 | 740 | 225 | 0.65 | 40 | 90 | 740 | 37.4 | 2 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV10 | 1,2,3,4 |
| VAV 129 | 10 | 1000 | 305 | 0.65 | 40 | 90 | 1020 | 50.6 | 2.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV10 | 1,2,3,4 |
| VAV 130A | 16 | 2300 | 570 | 0.65 | 40 | 90 | 540 | 116.3 | 6.25 | 1" | 160 | 1.5 | 2 | 25 | PRICE SDV16 | 1,2,3,4 |
| VAV 130B | 16 | 2300 | 570 | 0.65 | 40 | 90 | 540 | 116.3 | 6.25 | 1" | 160 | 1.5 | 2 | 25 | PRICE SDV16 | 1,2,3,4,5 |
| VAV 131 | 6 | 125 | 65 | 0.65 | 40 | 90 | 125 | 6.3 | 0.25 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4,5 |
| VAV 132 | 6 | 125 | 65 | 0.65 | 40 | 90 | 125 | 6.3 | 0.25 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 133 | 6 | 125 | 65 | 0.65 | 40 | 90 | 125 | 6.3 | 0.25 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 134 | 6 | 125 | 65 | 0.65 | 40 | 90 | 125 | 6.3 | 0.25 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |

1. SIZED AT 1.5" STATIC PRESSURE DROP ACROSS BOX. PROVIDE BOX THAT WILL MEET HEATING CAPACITY REQUIREMENT. USE HIGH CAPACITY COILS WHEN NECESSARY.
2. SEE VAV PIPING AND VAV SEQUENCE DETAIL.
3. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
4. CONTROL CIRCUIT: 24V / 1PH / 60HZ
5. PROVIDE WITH 3 WAY VALVE.

# VAV BOX SCHEDULE - LEVEL 2

| SYMBOL | INLET DIA. (INCHES) | COOLING | | | HEATING (40° WATER SIDE DELTA T) | | | | | | | | | MAX NC LEVEL | MANUF. MODEL # | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MAX CFM | MIN CFM | MX APD (IN) | COIL EAT | COIL LAT | MAX CFM | COIL MBH | FLOW GPM | PIPE SIZE | EWT | (FT) PD | ROWS | | | |
| VAV 201 | 14 | 2575 | 440 | 0.65 | 40 | 90 | 2575 | 130.2 | 7 | 1" | 160 | 1.5 | 2 | 25 | PRICE SDV14 | 1,2,3,4 |
| VAV 202 | 8 | 515 | 135 | 0.65 | 40 | 90 | 515 | 26 | 1.5 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV08 | 1,2,3,4 |
| VAV 203 | 8 | 515 | 135 | 0.65 | 40 | 90 | 515 | 26 | 1.5 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV08 | 1,2,3,4,5 |
| VAV 204 | 6 | 345 | 65 | 0.65 | 40 | 90 | 345 | 17.4 | 1 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 205 | 8 | 410 | 135 | 0.65 | 40 | 90 | 410 | 20.7 | 1 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV08 | 1,2,3,4,5 |
| VAV 206 | 6 | 275 | 65 | 0.65 | 40 | 90 | 275 | 14 | 0.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 207 | 6 | 290 | 65 | 0.65 | 40 | 90 | 290 | 15 | 0.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 208 | 8 | 350 | 65 | 0.65 | 40 | 90 | 350 | 17.7 | 1 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV08 | 1,2,3,4 |
| VAV 209 | 6 | 265 | 65 | 0.65 | 40 | 90 | 265 | 13.4 | 0.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 210 | 6 | 285 | 65 | 0.65 | 40 | 90 | 285 | 14.4 | 0.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 211 | 6 | 235 | 65 | 0.65 | 40 | 90 | 235 | 11.9 | 0.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 212 | 6 | 175 | 65 | 0.65 | 40 | 90 | 175 | 8.8 | 0.5 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 213 | 4 | 75 | 50 | 0.65 | 40 | 90 | 75 | 3.8 | 0.25 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV04 | 1,2,3,4 |
| VAV 214 | 8 | 360 | 135 | 0.65 | 40 | 90 | 360 | 18.2 | 1 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV08 | 1,2,3,4,5 |
| VAV 215 | 8 | 360 | 135 | 0.65 | 40 | 90 | 360 | 18.2 | 1 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV08 | 1,2,3,4 |
| VAV 216 | 6 | 245 | 65 | 0.65 | 40 | 90 | 245 | 12.4 | 0.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 217 | 6 | 270 | 65 | 0.65 | 40 | 90 | 270 | 13.7 | 0.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4,5 |
| VAV 218 | 12 | 1200 | 305 | 0.65 | 40 | 90 | 1200 | 60.7 | 3.25 | 1" | 160 | 1.5 | 2 | 25 | PRICE SDV12 | 1,2,3,4 |
| VAV 219 | 12 | 1200 | 305 | 0.65 | 40 | 90 | 1200 | 60.7 | 3.25 | 1" | 160 | 1.5 | 2 | 25 | PRICE SDV12 | 1,2,3,4 |
| VAV 220 | 6 | 190 | 65 | 0.65 | 40 | 90 | 175 | 9.6 | 0.5 | 1/2" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 221 | 6 | 320 | 65 | 0.65 | 40 | 90 | 175 | 16.2 | 0.75 | 3/4" | 160 | 1.5 | 2 | 25 | PRICE SDV06 | 1,2,3,4 |
| VAV 222 | 12 | 1500 | 305 | 0.65 | 40 | 90 | 1500 | 75.9 | 4 | 1" | 160 | 1.5 | 2 | 25 | PRICE SDV12 | 1,2,3,4 |
| VAV 223 | 12 | 1500 | 305 | 0.65 | 40 | 90 | 1500 | 75.9 | 4 | 1" | 160 | 1.5 | 2 | 25 | PRICE SDV12 | 1,2,3,4 |

1. SIZED AT 1.5" STATIC PRESSURE DROP ACROSS BOX. PROVIDE BOX THAT WILL MEET HEATING CAPACITY REQUIREMENT. USE HIGH CAPACITY COILS WHEN NECESSARY.
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3. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
4. CONTROL CIRCUIT: 24V / 1PH / 60HZ
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JACOBY ARCHITECTS

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Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

WHW ENGINEERING INC.
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Email: excellence@whw-engineering.com


CONSULTANTS

| | |
|---|---|
| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrzewski Designs - 801.582.9747 |

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PROFESSIONAL ENGINEER
05/21/2015
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STATE OF UTAH


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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

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| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
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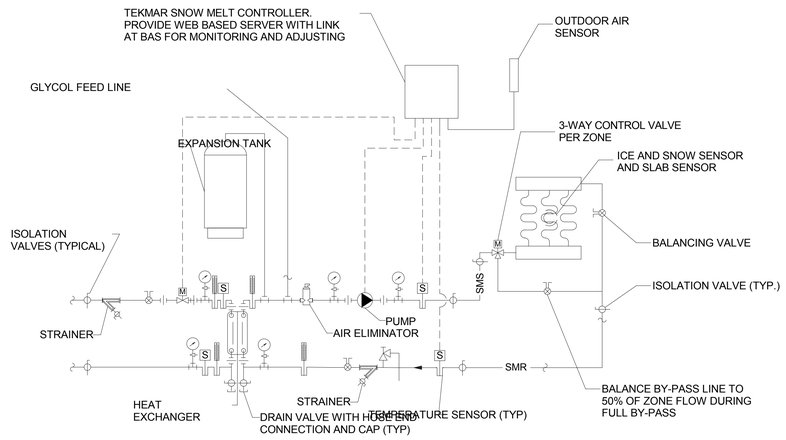
Construction Documents

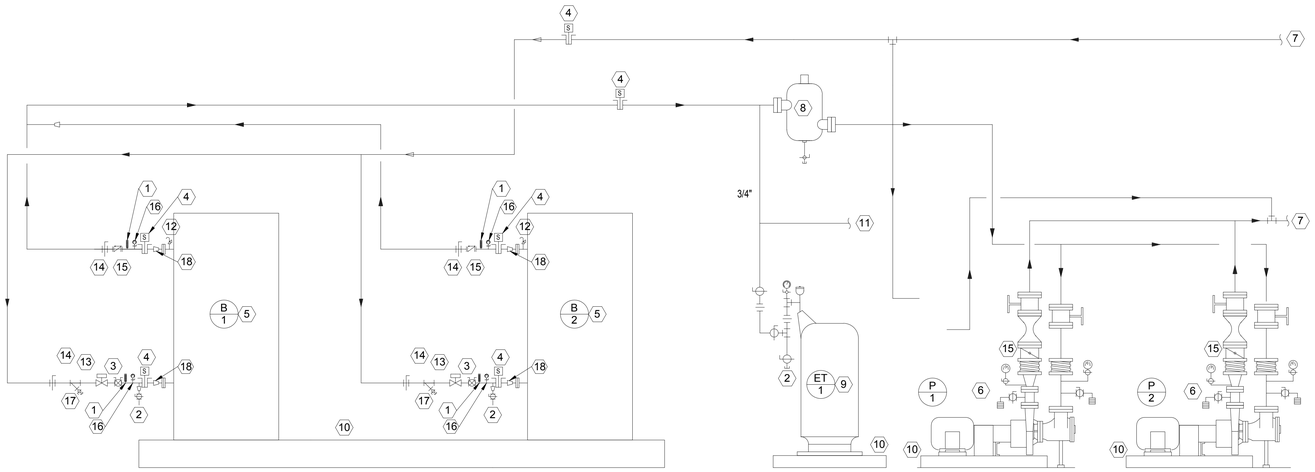
MECHANICAL SCHEDULES

ME6-03




## SNOWMELT PIPING DIAGRAM

SCALE: NONE




## HEATING WATER FLOW DIAGRAM

SCALE: NONE

HEATING WATER FLOW SHEET NOTES:

1. THERMOMETER 9" LONG 0° TO 250°F, TYPICAL.
2. VALVE WITH THREADED HOSE END CONNECTION WITH CAP EQUAL TO COMBRACO.
3. BALANCING VALVE.
4. BOILER WATER TEMPERATURE SENSOR. BOILER SHALL FOLLOW RESET SCHEDULE FROM DDC SYSTEM.
5. PROVIDE VERTICAL CONDENSING BOILERS. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
6. PROVIDE BASE MOUNTED PUMPS, SEE SCHEDULES AND DETAILS.
7. PIPING TO AND FROM BUILDING. SEE PLAN VIEWS FOR PIPE ROUTING, AND BUILDING FLOW DIAGRAM ON THIS SHEET.
8. PROVIDE AIR SEPARATOR, SEE DETAIL.
9. PROVIDE PRE-CHARGED EXPANSION TANK. SEE DETAILS AND SCHEDULE.
10. PROVIDE NEW CONCRETE HOUSEKEEPING PADS PER ARCHITECTURAL DETAILS. PROVIDE WATER PROOFING EPOXY COATING PRIOR TO SETTING EQUIPMENT. SEISMICALLY ANCHOR EQUIPMENT TO PADS AS REQUIRED.
11. PROVIDE MAKE-UP WATER LINE FROM MAKE-UP PRV.
12. SAFETY RELIEF VALVES AS REQUIRED BY BOILER MANUFACTURER FOR EACH BOILER.
13. AUTOMATIC ISOLATION VALVE, NORMALLY OPEN.
14. BUTTERFLY VALVE.
15. CHECK VALVE, TYPICAL.
16. PRESSURE GAUGES - 4-1/2' DIAMETER WITH GAUGE COCK. TYPICAL PRESSURE RANGE OF 0-100 PSIG.
17. STRAINER.
18. REDUCE AS REQUIRED.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HYDRONIC HEATING SCHEMATIC

ME7-01

## PLUMBING LEGEND

| MEANING | SYMBOL OR ABBREVIATION | MEANING | SYMBOL OR ABBREVIATION |
|---|---|---|---|
| HOT WATER LINE | HW | WALL CLEANOUT | WCO |
| COLD WATER LINE | CW | CLEANOUT | CO |
| HOT WATER RECIRCULATING LINE | HWREC | CLEANOUT TO GRADE | COTG |
| VENT LINE | V | FLOOR CLEANOUT | FCO |
| SANITARY SEWER | SS | BALL VALVE | ϕ |
| IRRIGATION WATER LINE | IR | UNION | |
| GAS LINE | G | CONNECTION TO EXISTING PIPING | ⊕ |
| VENT THRU ROOF | VTR | REGULATOR | Ⓡ |
| PRIMARY ROOF DRAIN | PRD | SECONDARY ROOF DRAIN | SRD |
| CONDENSATE DRAIN | CD | | |

**PLUMBING GENERAL NOTES**

**G-1** - ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2012 EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

**G-2** - ALL PIPING MATERIALS SHALL MEET ALL REQUIREMENTS OF IPC AND LOCAL AUTHORITY. PLASTIC PIPING SHALL BE ALLOWED ONLY WHERE ALLOWED BY CODE. PLASTIC PIPING SHALL NOT BE ROUTED THROUGH RETURN AIR PLENUMS OR OTHER AREAS PROHIBITED BY THE IMC, IPC, OR NFPA CODES OR BY LOCAL AUTHORITY.

**G-3** - GAS PIPING INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH GAS COMPANY REGULATIONS, NFPA CODE REQUIREMENTS, AND LOCAL AUTHORITY.

**G-4** - ALL MATERIALS SHALL BE NEW AND SHALL BE DOMESTIC MADE UNLESS SPECIFICALLY APPROVED OTHERWISE IN WRITING BY ARCHITECT OR OWNER.

**G-5** - PROVIDE VACUUM BREAKERS AND BACK FLOW PREVENTERS WHERE REQUIRED BY CODE OR WHERE THERE MAY BE ANY POSSIBLE CHANCE FOR CROSS CONTAMINATION. PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH UTAH CODE.

**G-6** - ALL PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING SPECIFICATIONS, ARCHITECTURAL DRAWING, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.

**G-7** - THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWING, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL PIPING SHALL BE CHECKED AND COORDINATED WITH THE SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

**G-8** - COORDINATE ALL PIPING AND PLUMBING EQUIPMENT WITH ALL OTHER TRADES AND/OR CONTRACTORS PRIOR TO INSTALLATION.

**G-9** - ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.

**G-10** - GAS LINE FITTINGS SHALL BE STANDARD WELD FITTINGS WITH TEPERED REDUCERS. DO NOT USE VALVES, UNIONS, OR AUTO CONTROLS IN GAS LINES ROUTED IN INACCESSIBLE CONCEALED SPACES.

**G-11** - ALL WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/NSF STANDARD 61 SECTION 9 (1998), CONCERNING METAL CONTAMINATS IN THE WATER SYSTEM.

**G-12** - WATER PIPING SHALL NOT BE ROUTED IN OUTSIDE WALLS OR ON EXTERIOR SIDE OF BUILDING INSULATION ENVELOPE.

**G-13** - WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ALL WATER LINES WITH QUICK OPEN OR QUICK CLOSE VALVES.

WATER HAMMER ARRESTOR SCHEDULE:

| | |
|---|---|
| TYPE A | 1-11 FIXTURE UNITS |
| TYPE B | 12-32 FIXTURE UNITS |
| TYPE C | 33-60 FIXTURE UNITS |
| TYPE D | 61-113 FIXTURE UNITS |


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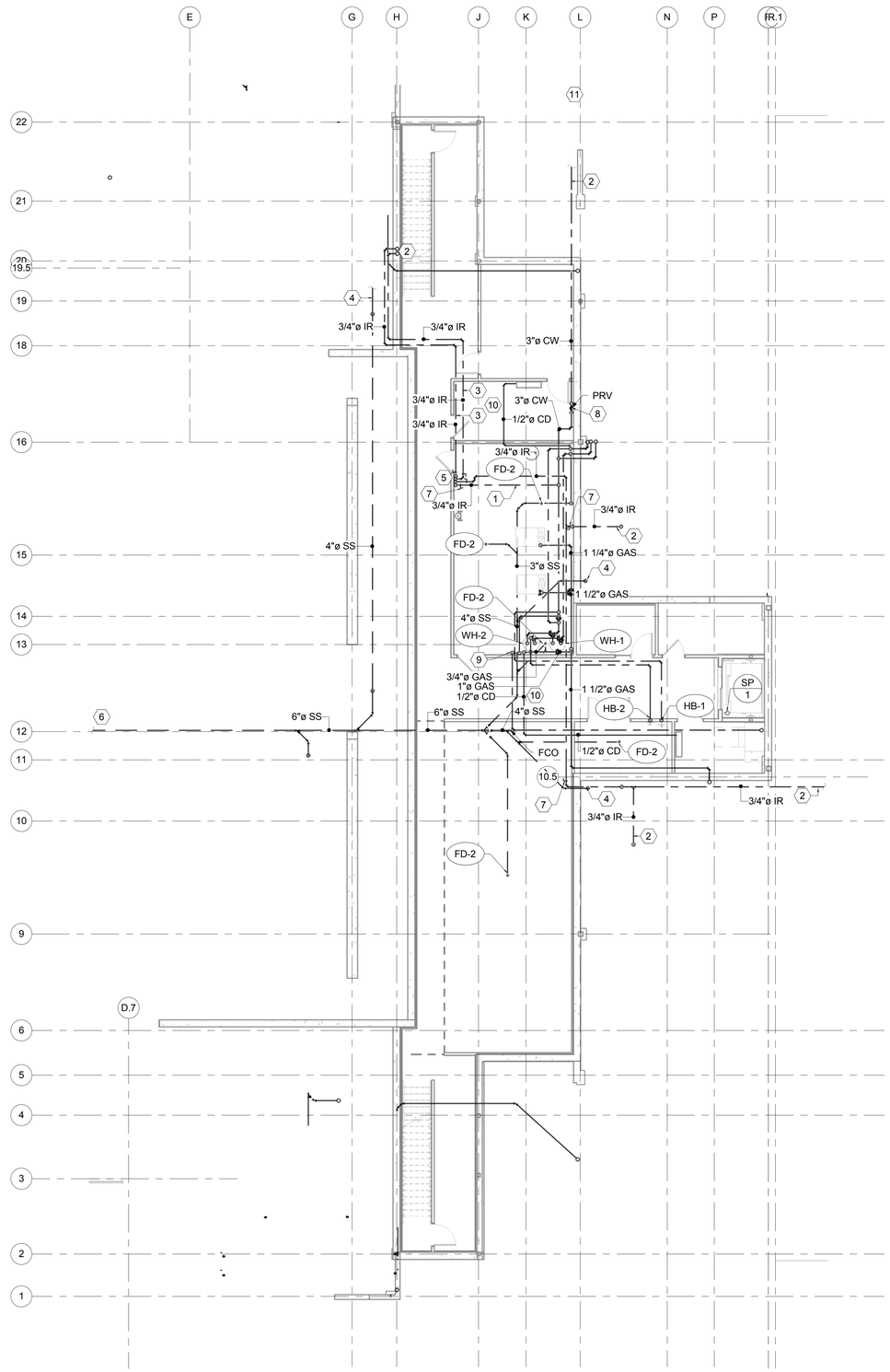
PLUMBING GENERAL NOTES AND LEGEND

PG0-01

## SHEET NOTES

1. PROVIDE 3/4 INCH BACKFLOW PREVENTER, SHUT-OFF VALVE AND DRAIN FOR PIPE FEEDING WATER FEATURES.
2. SEE PE1-01.1 FOR CONTINUATION.
3. ROUTE COLD WATER LINE TO THIS APPROXIMATE LOCATION. COORDINATE WITH LANSCAPING CONTRACTOR TO PROVIDE TWO 3/4 INCH VALVES AND CONTROLS. ROUTE SEPARATE 3/4" IRRIGATION LINES UP TO ROOF GARDEN LEVEL. SEE PE1-01.1 FOR CONTINUATION.
4. DROP NEAR FOUNDATION WALL AND PROVIDE WALL ACCESSIBLE CLEANOUT BEFORE TURNING BELOW BASEMENT SLAB. SEE PE1-01.2 FOR CONTINUATION.
5. COLD WATER PIPE TO TIE INTO IRRIGATION CONTROLLER. COORDINATE LOCATION OF VALVES AND CONTROLLER WITH LANDSCAPE CONTRACTOR.
6. ROUTE SANITARY SEWER BELOW GYMNASIUM AND OUT THE WEST SIDE OF THE BUILDING. SEE PE1-01.2 FOR CONTINUATION.
7. PROVIDE SHUTOFF VALVE.
8. PROVIDE PRV STATION RACKED ALONG THE WALL IN THIS APPROXIMATE LOCATION. SEE DETAIL. TAKE IRRIGATION LINES OFF UPSTREAM OF PRV STATION.
9. PROVIDE COLD WATER FOR AIR HANDLING UNITS ON ROOF. PROVIDE WITH ISOLATION VALVES AND DRAIN LINE. SEE DETAIL.
10. PROVIDE CONDENSATE DRAIN PIPING FROM FAN COIL UNIT. ROUTE PIPING TO FLOOR DRAIN OR JANITORS SINK.
11. ATC SHALL PROVIDE CONDUIT AND COMMUNICATION TO WATER METER BY CIVIL TO MONITOR METER. COORDINATE EXACT LOCATION WITH CIVIL SITE UTILITY PLAN.




1 BASEMENT PLUMBING PLAN
1/8" = 1'-0"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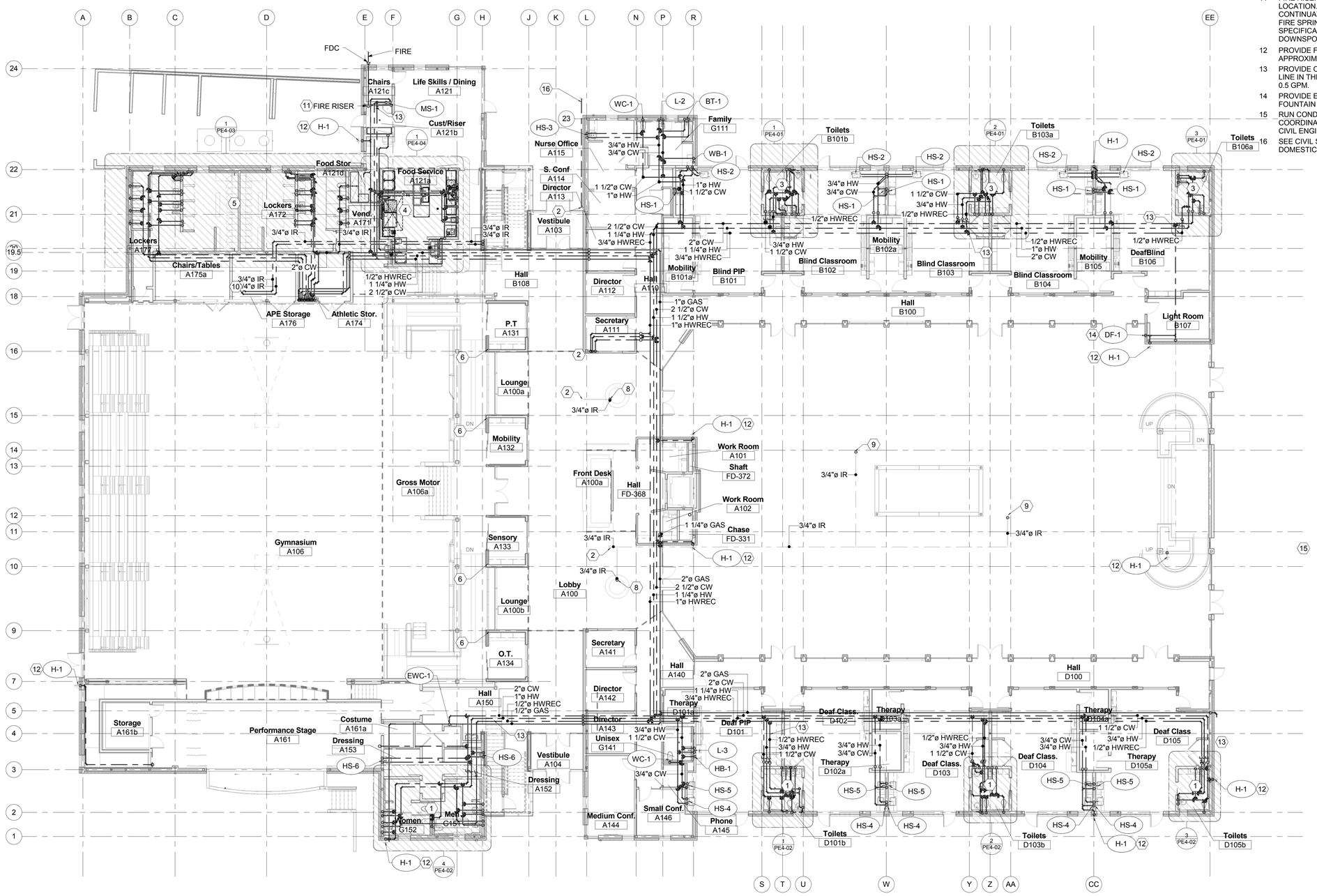
PLUMBING BASEMENT FLOOR PLAN

PE1-00

## SHEET NOTES

1. SEE PE4-02 FOR ENLARGED RESTROOM PLAN.
2. SEE PE1-00 FOR CONTINUATION.
3. SEE PE4-01 FOR ENLARGED RESTROOM PLAN.
4. SEE PE4-04 FOR ENLARGED KITCHEN PLAN.
5. SEE PE4-03 FOR ENLARGED LOCKER ROOM PLAN.
6. FIRESPRINKLER BRANCHES FROM BELOW PROVIDED BY DIV 21 DESIGN BUILD CONTRACTOR.
7. DROP GAS LINE IN WALL WITH KEYED RECESSED BOX. PROVIDE SHUTOFF VALVE AND CAP INSIDE BOX FOR FUTURE USE.
8. PROVIDE COLD WATER LINE FOR PLANTER BOX IN THIS APPROXIMATE LOCATION.
9. PROVIDE COLD WATER LINE FOR WATER FEATURES IN THIS APPROXIMATE LOCATION. COORDINATE PRECISE LCOATION WITH LANDSCAPE CONTRACTOR.
10. PROVIDE COLD WATER LINES FOR PATIO LANDSCAPING IN THIS APPROXIMATE LOCATION. COORDINATE PRECISE LOCATION WITH LANDSCAPE CONTRACTOR. SEAL PENETRATIONS AIR AND WATER TIGHT.
11. FIRE RISER SHALL BE LOCATED IN THIS APPROXIMATE LOCATION. SEE CIVIL SITE UTILITY PLAN FOR CONTINUATION OF WATER LINE. SEE DETAILS FOR FIRE SPRINKLERS AS WELL AS PERFORMANCE SPECIFICATION. PROVIDE LAMBS TONGUE DOWNSPOUT AT FIRE DRAIN.
12. PROVIDE FREEZEPROOF WALL HYDRANT IN THIS APPROXIMATE LOCATION. MOUNT 24" ABOVE GRADE.
13. PROVIDE CIRCUIT SETTER ON HOT WATER RECIRC LINE IN THIS APPROXIMATE LOCATION. BALANCE TO 0.5 GPM.
14. PROVIDE EXTERIOR VANDAL RESISTANT DRINKING FOUNTAIN IN THIS APPROXIMATE LOCATION.
15. RUN CONDUIT FROM WATER METER TO BUILDING. COORDINATE PRECISE LOCATION OF METER WITH CIVIL ENGINEER.
16. SEE CIVIL SITE UTILITY PLAN FOR CONTINUATION OF DOMESTIC COLD WATER LINE.




1 LEVEL 1 PLUMBING PLAN
3/32" = 1'-0"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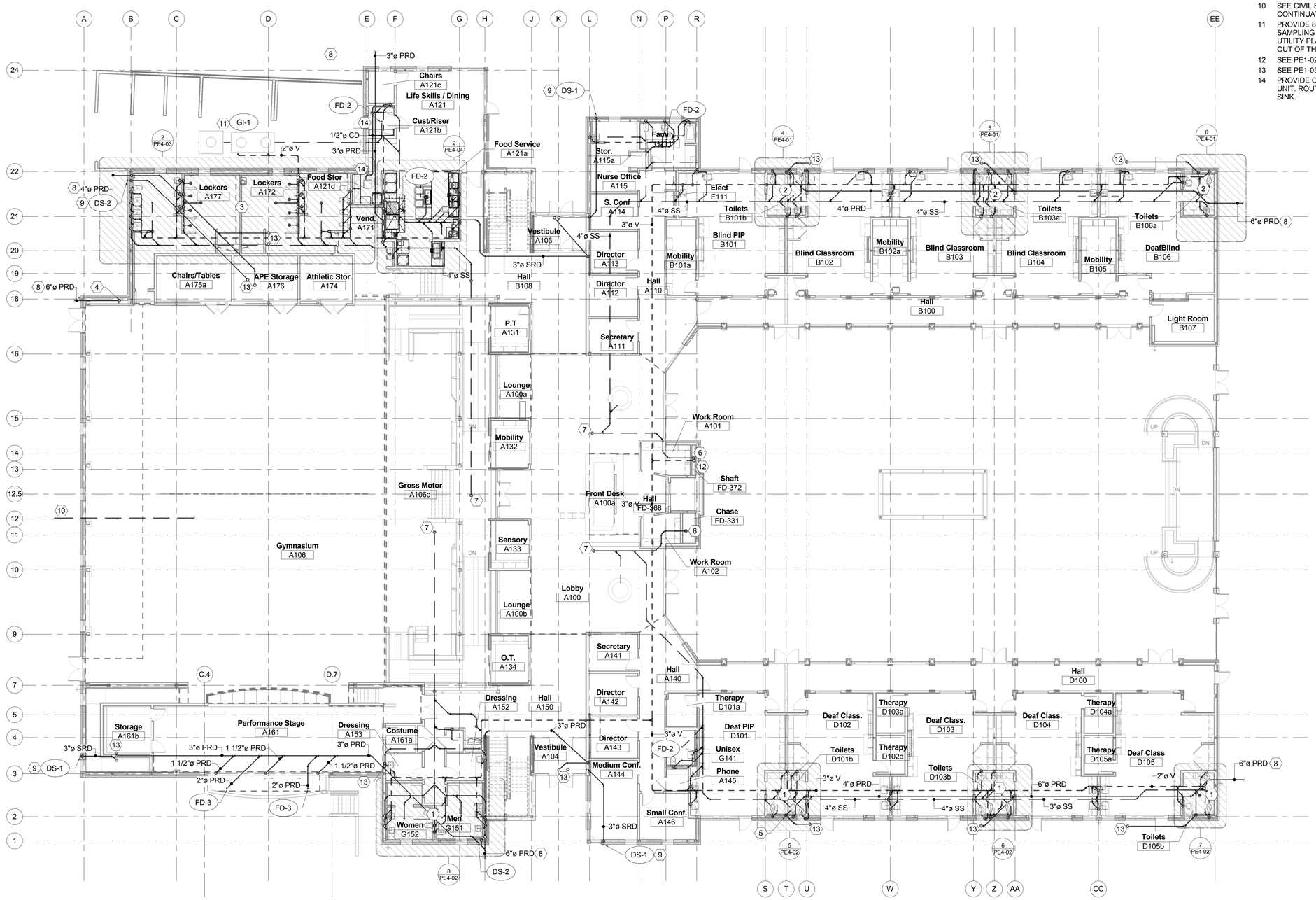
PLUMBING LEVEL 1 FLOOR PLAN

PE1-01.1

## SHEET NOTES

1. SEE PE4-02 FOR ENLARGED RESTROOM PLAN.
2. SEE PE4-01 FOR ENLARGED RESTROOM PLAN.
3. SEE PE4-03 FOR ENLARGED LOCKER ROOM PLAN.
4. PROVIDE ROOF DRAIN DROP AT THIS LOCATION.
5. ROOF DRAIN PIPING TO PENETRATE THROUGH STRUCTURAL BEAM AT THIS APPROXIMATE LOCATION. SEE STRUCTURAL DRAWINGS FOR CORRDINATION AND PENETRATION LOCATION. DO NOT PENETRATE WITHIN 24 INCHES OF BEAM.
6. SEE PE1-02.2 FOR CONTINUATION OF SANITARY SEWER UP.
7. SEE PE1-00 FOR CONTINUATION.
8. SEE CIVIL SITE UTILITY PLAN FOR INVERTS AND CONTINUATION OF STORM DRAIN PIPING.
9. PROVIDE DOWNSPOUT IN THIS APPROXIMATE LOCATION. MOUNT 24" ABOVE GRADE.
10. SEE CIVIL SITE UTILITY PLAN FOR INVERTS AND CONTINUATION OF SANITARY SEWER LINE.
11. PROVIDE 800 GALLON GREASE INTERCEPTOR AND SAMPLING MANHOLE. SEE DETAILS. SEE CIVIL SITE UTILITY PLAN FOR CONTINUATION OF WASTE PIPING OUT OF THE SAMPLING MANHOLE.
12. SEE PE1-02.2 FOR CONTINUATION OF VENT UP.
13. SEE PE1-03 FOR CONTINUATION OF ROOF DRAIN UP.
14. PROVIDE CONDENSATE DRAIN PIPING FROM FAN COIL UNIT. ROUTE PIPING TO FLOOR DRAIN OR JANITORS SINK.




1 LEVEL 1 PLUMBING WASTE AND VENT PLAN
3/32" = 1'-0"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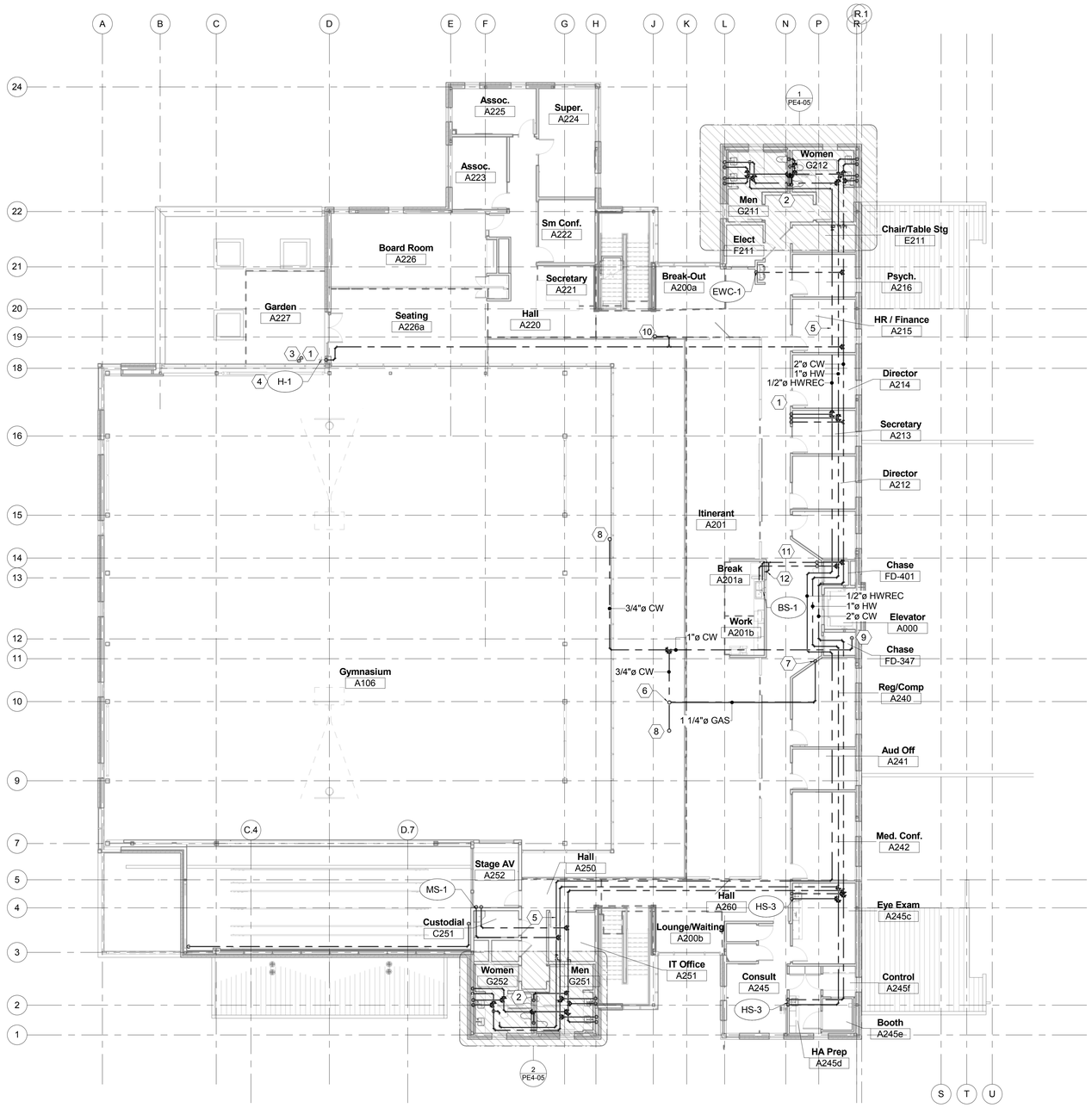
PLUMBING LEVEL 1 WASTE AND VENT PLAN

PE1-01.2

## SHEET NOTES

1. SEE PE1-01.1 FOR CONTINUATION.
2. SEE PE4-05 FOR ENLARGED RESTROOM PLAN.
3. PROVIDE TWO 3/4 INCH COLD WATER IRRIGATION LINES IN THIS APPROXIMATE LOCATION. COORDINATE PRECISE LOCATION WITH LANDSCAPE CONTRACTOR.
4. PROVIDE FREEZEPROOF WALL HYDRANT IN THIS APPROXIMATE LOCATION. MOUNT 24" ABOVE GRADE.
5. PROVIDE CIRCUIT SETTER ON HOT WATER RECIRC LINE IN THIS APPROXIMATE LOCATION. BALANCE TO 0.5 GPM.
6. SEE PE1-03 FOR CONTINUATION OF NATURAL GAS UP TO AIR HANDLING UNIT ON THE ROOF.
7. SEE PE1-01.1 FOR CONTINUATION OF GAS PIPING FROM BELOW.
8. SEE PE1-03 FOR CONTINUATION OF COLD WATER TO AIR HANDLING UNIT ON THE ROOF.
9. SEE PE1-01.1 FOR CONTINUATION OF COLD WATER PIPING FROM BELOW.
10. SEE PE1-03 FOR COLD WATER CONTINUATION.
11. RUN PIPE UNDER FLOOR IN THIS APPROXIMATE LOCATION.
12. PROVIDE WATER FOR REFRIGERATOR IN THIS APPROXIMATE LOCATION. PROVIDE WITH ICE MAKER BOX.




1 LEVEL 2 PLUMBING PLAN
3/32" = 1'-0"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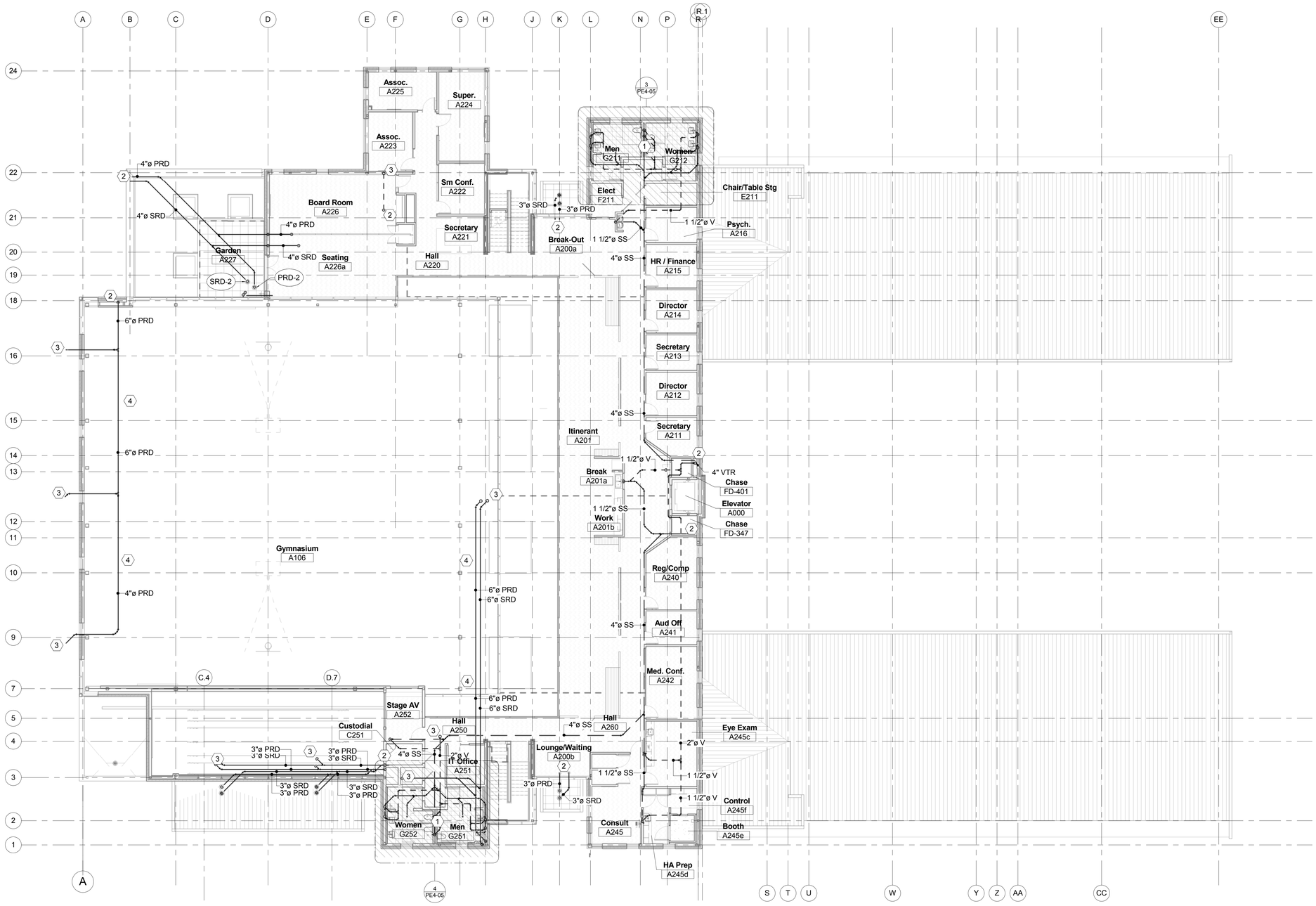
PLUMBING LEVEL 2 FLOOR PLAN

PE1-02.1

## SHEET NOTES

1. SEE PE4-05 FOR ENLARGED RESTROOM PLAN.
2. SEE PE1-01.2 FOR CONTINUATION FROM BELOW.
3. SEE PE1-03 FOR CONTINUATION FROM ROOF ABOVE.
4. SLOPE ROOF DRAIN PIPING HIGH THROUGH THE JOISTS. PAINT EXPOSED PIPING TO MATCH STRUCTURE.




1 LEVEL 2 PLUMBING WASTE AND VENT PLAN
3/32" = 1'-0"


JACOBY ARCHITECTS
425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

WHW ENGINEERING INC.
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| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
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PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
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| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

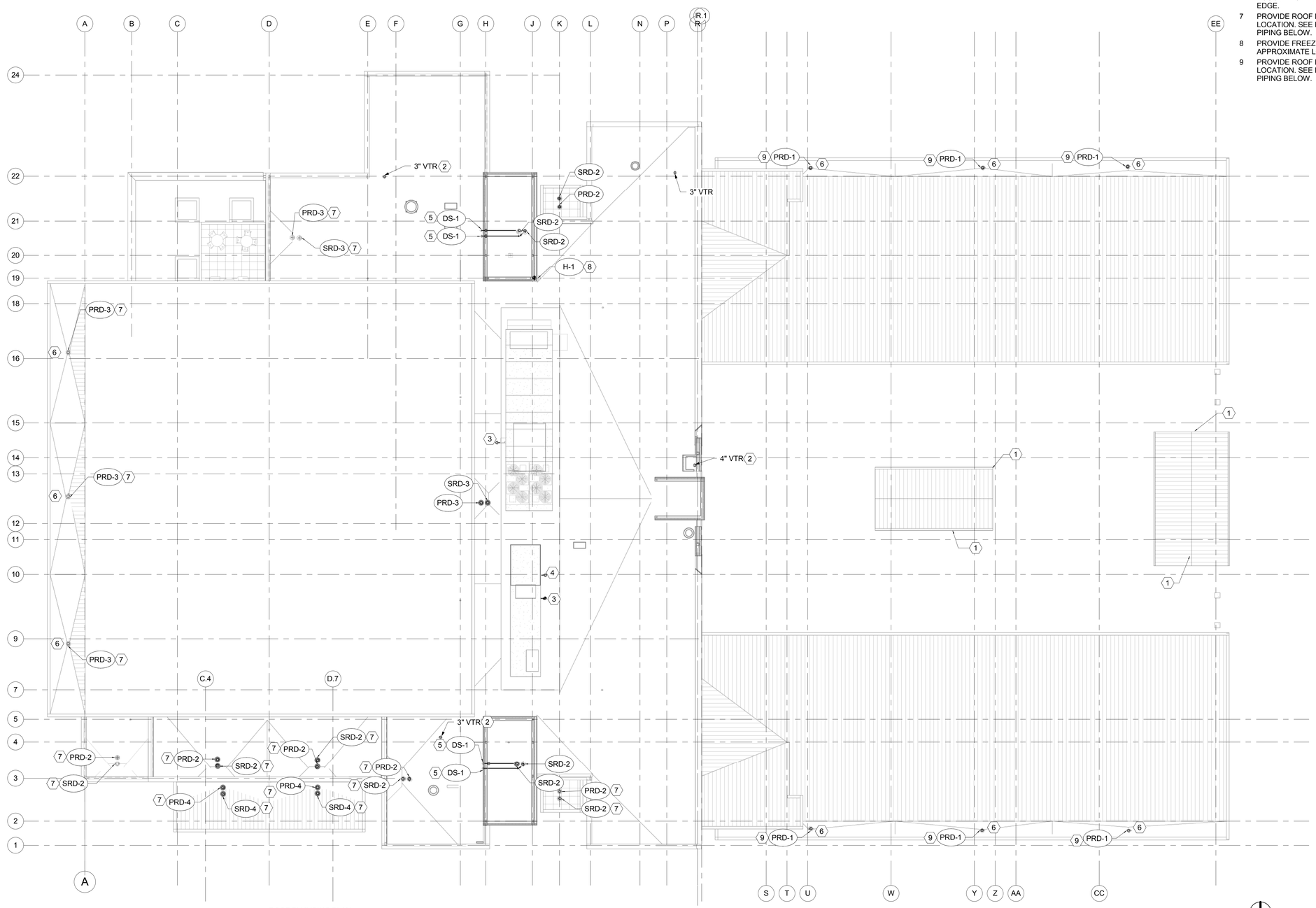
Construction Documents

PLUMBING LEVEL 2 WASTE AND VENT PLAN

PE1-02.2

## SHEET NOTES

1. RAIN GUTTERS BY ARCHITECT AND GENERAL CONTRACTOR.
2. VENT THROUGH ROOF. SEAL PENETRATION WATER PROOF.
3. PROVIDE WATER UP TO EVAP CONDENSERS OF THE AIR HANDLING UNITS. SEE DETAIL FOR DRAINING THE SYSTEM BACK TO THE MECHANICAL ROOM IN THE WINTER. SLOPE PIPING BACK TO DROP TO THE MECHANICAL ROOM. PROVIDE SHUTOFF VALVES AND UNIONS PRIOR TO CONNECTING TO EQUIPMENT.
4. SEE PE102.1 FOR CONTINUATION OF GAS PIPING BELOW.
5. PROVIDE ROOF DRAINS ON UPPER ROOF AND DISCHARGE WITH DOWNSPOUT ONTO LOWER ROOF AS SHOWN. MOUNT DOWNSPOUTS 18" ABOVE THE ROOF.
6. OVERFLOW FOR ROOF DRAINS WILL BE ACCOMPLISHED THROUGH SPILLING OVER THE ROOF EDGE.
7. PROVIDE ROOF DRAIN IN THIS APPROXIMATE LOCATION. SEE PE1-02.2 FOR CONTINUATION OF PIPING BELOW.
8. PROVIDE FREEZE PROOF WALL HYDRANT IN THIS APPROXIMATE LOCATION.
9. PROVIDE ROOF DRAIN IN THIS APPROXIMATE LOCATION. SEE PE1-01.2 FOR CONTINUATION OF PIPING BELOW.




1 ROOF PLUMBING PLAN
3/32" = 1'-0"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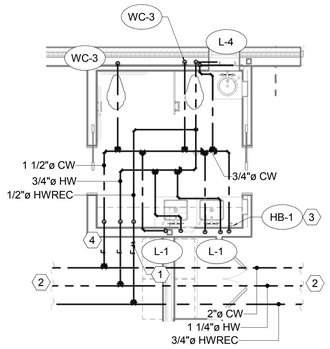
PLUMBING ROOF PLAN

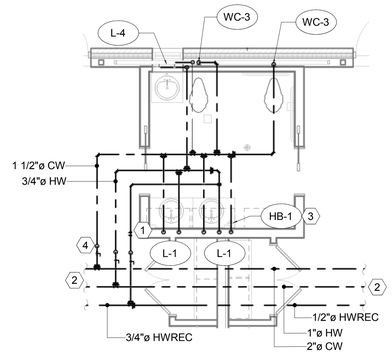
PE1-03

## SHEET NOTES

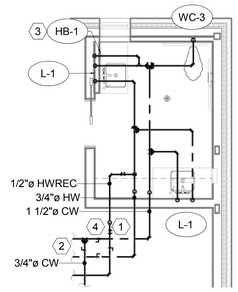
1. PROVIDE CIRCUIT SETTER. BALANCE TO 0.5 GPM
2. SEE PE1-01.1 AND PE1-01.2 FOR CONTINUATION.
3. PROVIDE KEYED HOSE BIB BELOW LAV. RETURN KEY TO OWNER.
4. PROVIDE SHUTOFF VALVE ON COLD, HOT, AND HOT WATER RECIRC LINES TO ISOLATE THE RESTROOMS. DROP DOWN IN CHASE AND PROVIDE SHUT OFF VALVES AT 4'-0" AFF THEN RISE BACK UP TO CEILING SPACE. THERE SHALL BE 6 SEPARATE VALVES. LABEL EACH VALVE TO INDICATE WHICH RESTROOM IT IS ISOLATING. COORDINATE WITH GC TO LEAVE OPENING IN THE WALL OR ACCESS DOOR SO THAT ISOLATION VALVES ARE EASILY ACCESSIBLE.



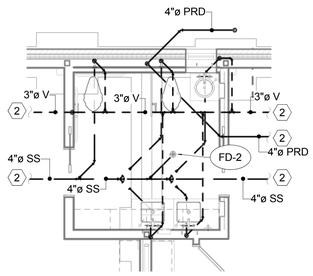

1 LEVEL 1 PLUMBING ENLARGED RESTROOM NE BASE PLAN
1/4" = 1'-0"



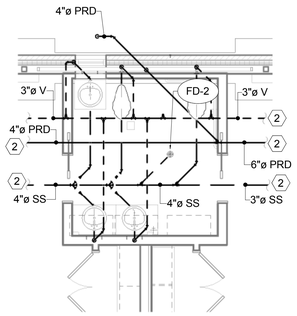

2 LEVEL 1 PLUMBING ENLARGED RESTROOM NE MIDDLE PLAN
1/4" = 1'-0"



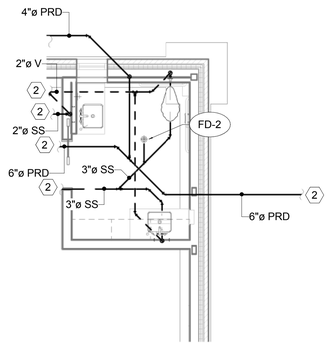

3 LEVEL 1 PLUMBING ENLARGED RESTROOM NE END PLAN
1/4" = 1'-0"




4 LEVEL 1 PLUMBING ENLARGED RESTROOM NE BASE WASTE AND VENT PLAN
1/4" = 1'-0"




5 LEVEL 1 PLUMBING ENLARGED RESTROOM NE MIDDLE WASTE AND VENT PLAN
1/4" = 1'-0"




6 LEVEL 1 PLUMBING ENLARGED RESTROOM NE END WASTE AND VENT PLAN
1/4" = 1'-0"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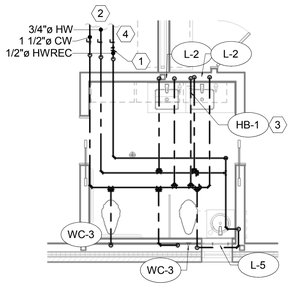
# PLUMBING ENLARGED RESTROOM PLANS LEVEL 1

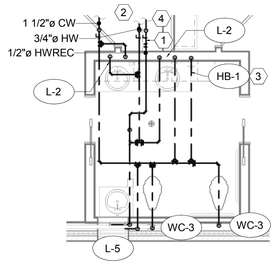
# PE4-01

## SHEET NOTES

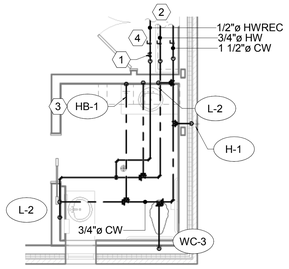
1. PROVIDE CIRCUIT SETTER. BALANCE TO 0.5 GPM
2. SEE PE1-01.1 AND PE1-01.2 FOR CONTINUATION.
3. PROVIDE KEYED HOSE BIB BELOW LAV. RETURN KEY TO OWNER.
4. PROVIDE SHUTOFF VALVE ON COLD, HOT, AND HOT WATER RECIRC LINES TO ISOLATE THE RESTROOMS. DROP DOWN IN CHASE AND PROVIDE SHUT OFF VALVES AT 4'-0" AFF THEN RISE BACK UP TO CEILING SPACE. THERE SHALL BE 6 SEPARATE VALVES. LABEL EACH VALVE TO INDICATE WHICH RESTROOM IT IS ISOLATING. COORDINATE WITH GC TO LEAVE OPENING IN THE WALL OR ACCESS DOOR SO THAT ISOLATION VALVES ARE EASILY ACCESSIBLE.



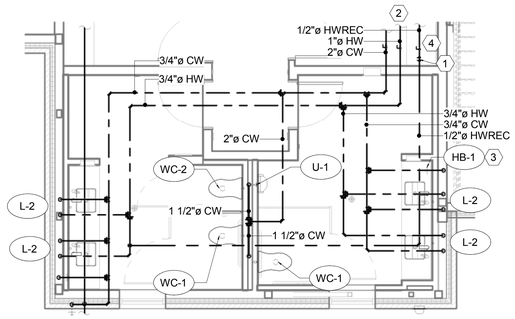

1 LEVEL 1 PLUMBING ENLARGED RESTROOM SE BASE PLAN
1/4" = 1'-0"



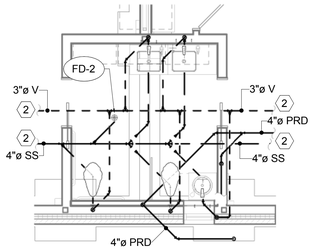

2 LEVEL 1 PLUMBING ENLARGED RESTROOM SE MIDDLE PLAN
1/4" = 1'-0"



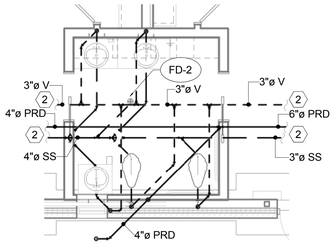

3 LEVEL 1 PLUMBING ENLARGED RESTROOM SE END PLAN
1/4" = 1'-0"



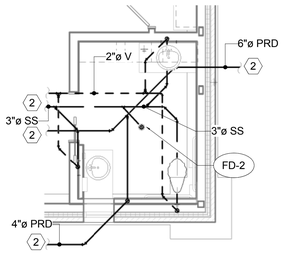

4 LEVEL 1 PLUMBING ENLARGED RESTROOM SW PLAN
1/4" = 1'-0"



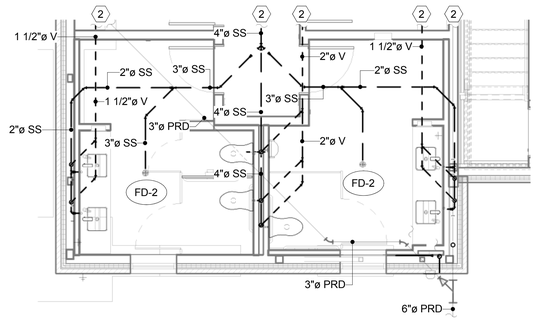

5 LEVEL 1 PLUMBING ENLARGED RESTROOM SE BASE WASTE AND VENT PLAN
1/4" = 1'-0"




6 LEVEL 1 PLUMBING ENLARGED RESTROOM SE MIDDLE WASTE AND VENT PLAN
1/4" = 1'-0"




7 LEVEL 1 PLUMBING ENLARGED RESTROOM SE END WASTE AND VENT PLAN
1/4" = 1'-0"




8 LEVEL 1 PLUMBING ENLARGED RESTROOM SW WASTE AND VENT PLAN
1/4" = 1'-0"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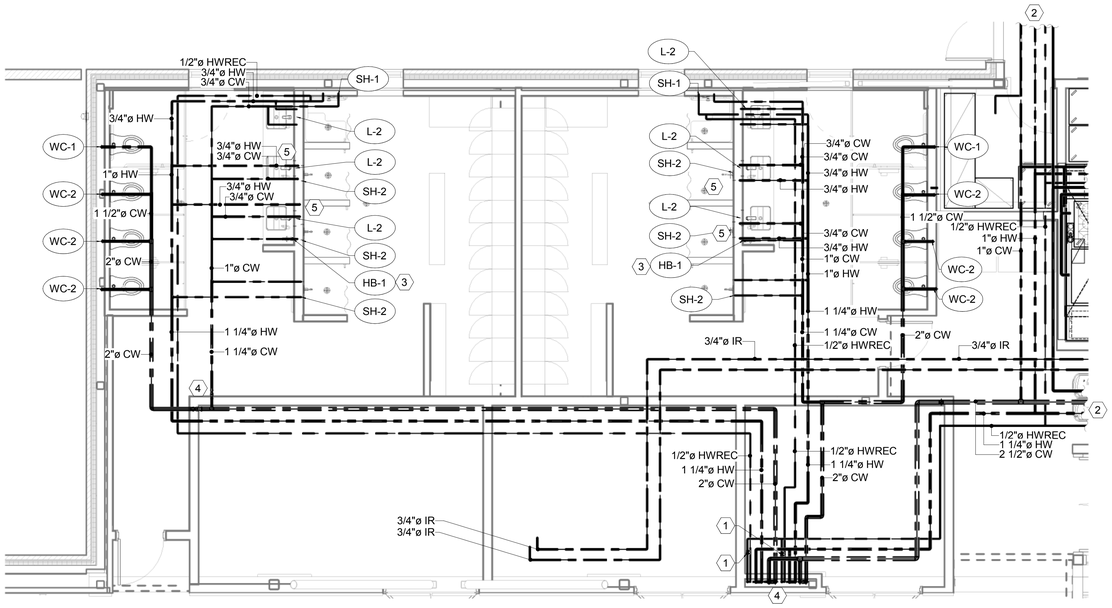
Construction Documents

PLUMBING ENLARGED RESTROOM PLANS
LEVEL 1

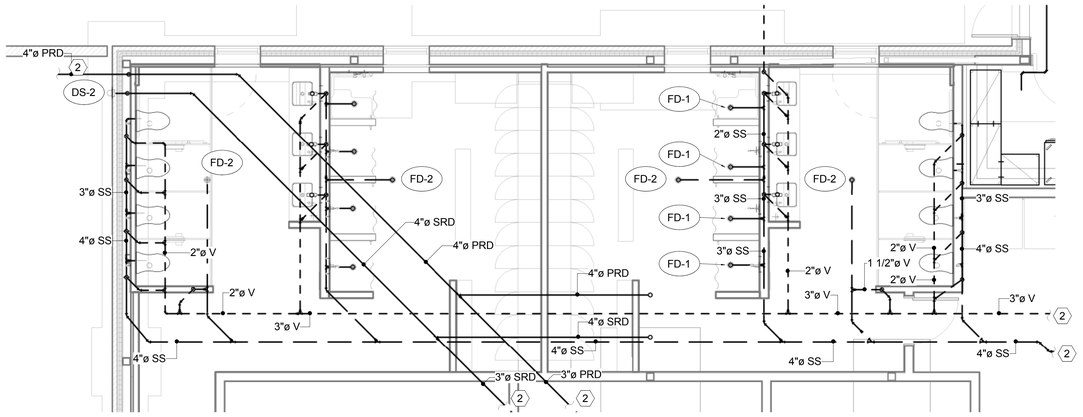
PE4-02

## SHEET NOTES

1. PROVIDE CIRCUIT SETTER. BALANCE TO 0.5 GPM
2. SEE PE1-01.1 AND PE1-01.2 FOR CONTINUATION.
3. PROVIDE KEYED HOSE BIB BELOW LAV. RETURN KEY TO OWNER.
4. PROVIDE SHUTOFF VALVE ON COLD, HOT, AND HOT WATER RECIRC LINES TO ISOLATE THE RESTROOMS. DROP DOWN IN CHASE AND PROVIDE SHUT OFF VALVES AT 4'-0" AFF THEN RISE BACK UP TO CEILING SPACE. THERE SHALL BE 6 SEPARATE VALVES. LABEL EACH VALVE TO INDICATE WHICH RESTROOM IT IS ISOLATING. COORDINATE WITH GC TO LEAVE OPENING IN THE WALL OR ACCESS DOOR SO THAT ISOLATION VALVES ARE EASILY ACCESSIBLE.
5. HOT AND COLD WATER DROPS TO SUPPLY LAVATORY AND SHOWER.




1 LEVEL 1 PLUMBING ENLARGED LOCKER ROOM PLAN
1/4" = 1'-0"




2 LEVEL 1 PLUMBING ENLARGED LOCKER ROOM WASTE AND VENT PLAN
1/4" = 1'-0"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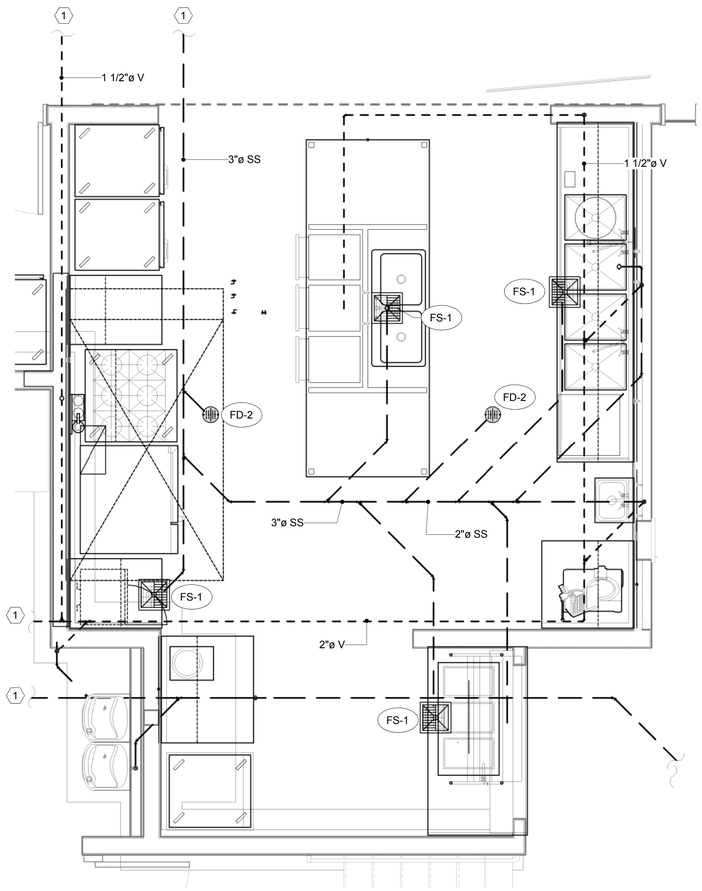
PLUMBING ENLARGED LOCKER ROOM PLAN

PE4-03

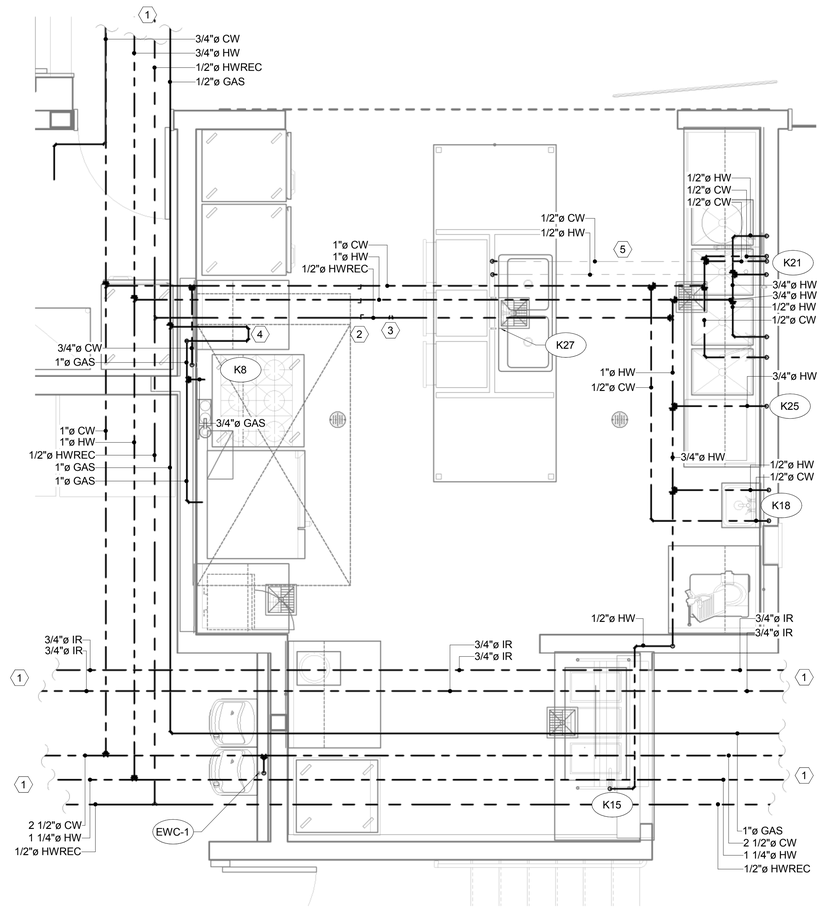
## SHEET NOTES

1. SEE PE1-01.1 AND PE1-01.2 FOR CONTINUATION.
2. PROVIDE SHUTOFF VALVE ON COLD, HOT, AND HOT WATER RECIRC LINES TO ISOLATE THE KITCHEN.
3. PROVIDE CIRCUIT SETTER. BALANCE TO 0.5 GPM
4. PROVIDE SHUTOFF VALVE ON GAS LINE AND TIE INTO ANSIL SYSTEM TO SHUT OFF IN AN EMERGENCY. SHUTOFF SHALL BE EASILY ACCESSIBLE.
5. BURY HOT AND COLD WATER TO SINK IN ISLAND.

GENERAL NOTE:
1. COORDINATE WITH FOOD SERVICE PLANS FOR EXACT SIZE, LOCATION AND HEIGHT OF STUB OUTS.




2 LEVEL 1 PLUMBING ENLARGED KITCHEN WASTE AND VENT PLAN
1/2" = 1'-0"




1 LEVEL 1 PLUMBING ENLARGED KITCHEN PLAN
1/2" = 1'-0"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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

| | |
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| 2014 10 09 | Schematic Design |
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| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
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| 2015 05 21 | Bidding Documents |

Construction Documents

PLUMBING ENLARGED KITCHEN PLAN

PE4-04

## SHEET NOTES

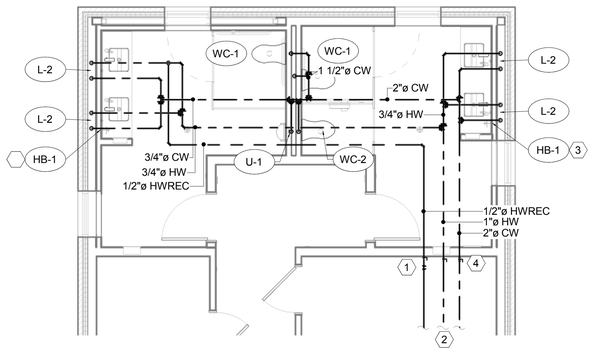
PROVIDE KEYED HOSE BIB BELOW LAV. RETURN KEY TO OWNER.

1 PROVIDE CIRCUIT SETTER. BALANCE TO 0.5 GPM

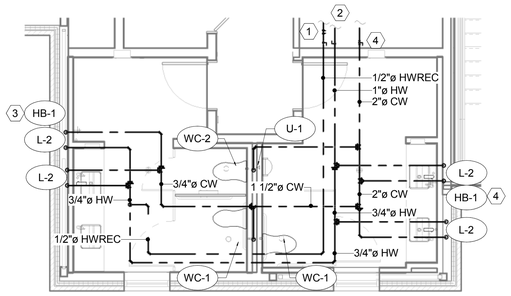
2 SEE PE1-02.1 AND PE1-02.2 FOR CONTINUATION.

3 PROVIDE KEYED HOSE BIB BELOW LAV. RETURN KEY TO OWNER.

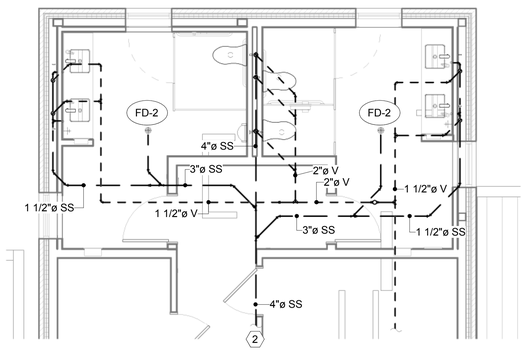
4 PROVIDE SHUTOFF VALVE ON COLD, HOT, AND HOT WATER RECIRC LINES TO ISOLATE THE RESTROOMS. DROP DOWN IN CHASE AND PROVIDE SHUT OFF VALVES AT 4'-0" AFF THEN RISE BACK UP TO CEILING SPACE. THERE SHALL BE 6 SEPARATE VALVES. LABEL EACH VALVE TO INDICATE WHICH RESTROOM IT IS ISOLATING. COORDINATE WITH GC TO LEAVE OPENING IN THE WALL OR ACCESS DOOR SO THAT ISOLATION VALVES ARE EASILY ACCESSIBLE.



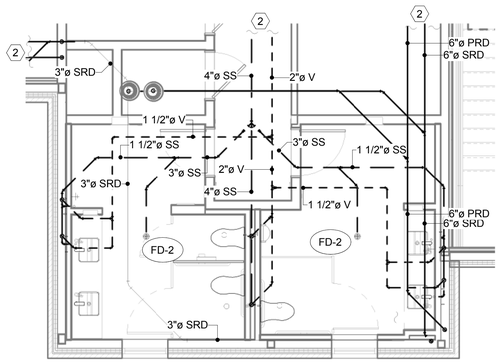

1 LEVEL 2 PLUMBING ENLARGED NORTH RESTROOM PLAN
1/4" = 1'-0"




2 LEVEL 2 PLUMBING ENLARGED SOUTH RESTROOM PLAN
1/4" = 1'-0"




3 LEVEL 2 PLUMBING ENLARGED NORTH RESTROOM WASTE AND VENT PLAN
1/4" = 1'-0"




4 LEVEL 2 PLUMBING ENLARGED SOUTH RESTROOM WASTE AND VENT PLAN
1/4" = 1'-0"


JACOBY ARCHITECTS

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PROFESSIONAL ENGINEER
05/21/2015
WINWARD M. PACKER
No. 375080
STATE OF UTAH


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4110 State Office Building | Salt Lake City, Utah 84114-1204 801-538-3018

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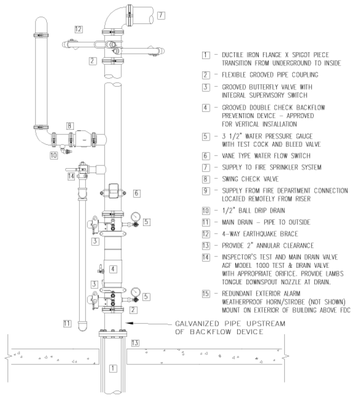
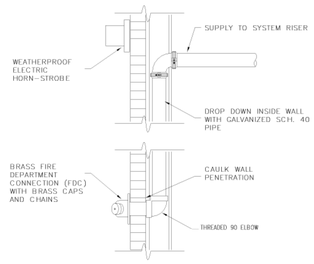
PLUMBING ENLARGED RESTROOM PLAN LEVEL 2

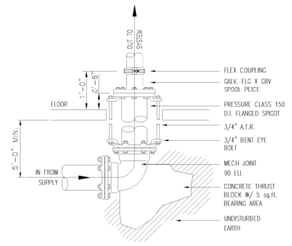
PE4-05



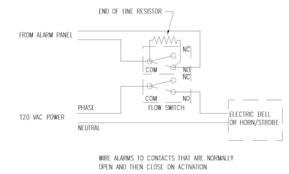

D2 RISER DETAIL
SCALE: NONE
FOR REFERENCE SCHEMATIC ONLY



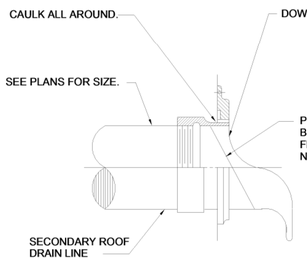

D3 FIRE DEPT CONN
SCALE: NONE
FOR REFERENCE SCHEMATIC ONLY




D4 U.G. ELBOW
SCALE: NONE
FLANGE SPIGOT PIECE & THRUST BLOCKING

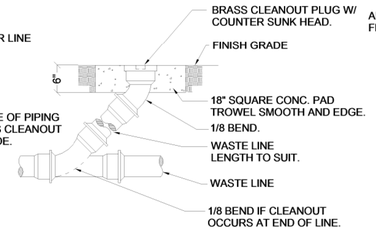



D5 FLOW SWITCH WIRING SCHEMATIC
SCALE: NONE
FOR REFERENCE ONLY



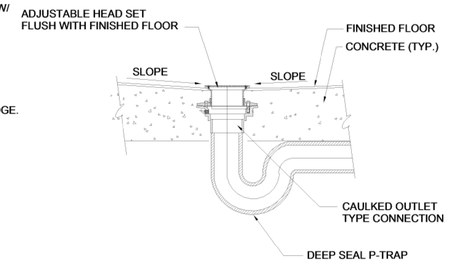

C1 DOWNSPOUT NOZZLE DETAIL
SCALE: NONE

FLOOR CLEANOUT (FCO)



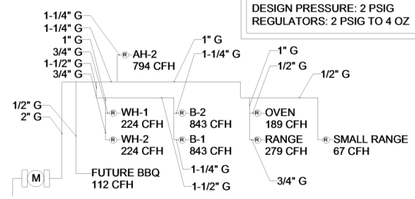

CLEANOUT TO GRADE (COTG)

C2 CLEAN-OUT DETAILS
SCALE: NONE

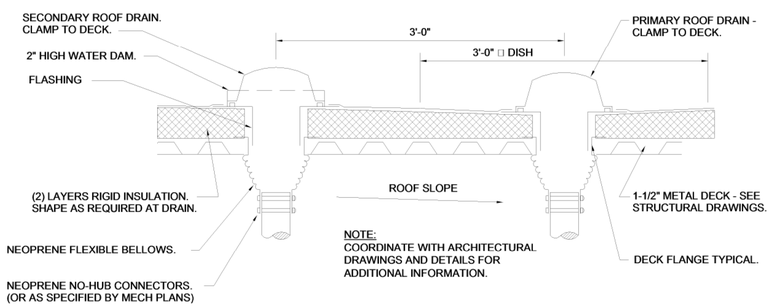



C4 FLOOR DRAIN DETAIL
SCALE: NONE

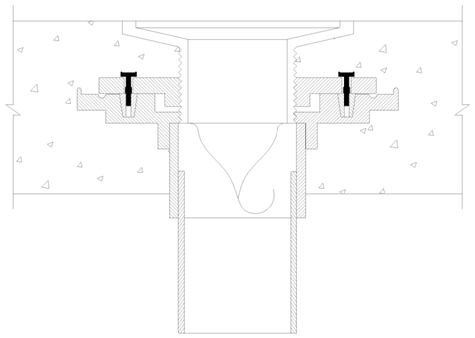
NATURAL GAS METER
DESIGN CAPACITY: 3,181 MBH (3,574 CFH)
DESIGN LENGTH: 450 FEET
DESIGN PRESSURE: 2 PSIG
REGULATORS: 2 PSIG TO 4 OZ



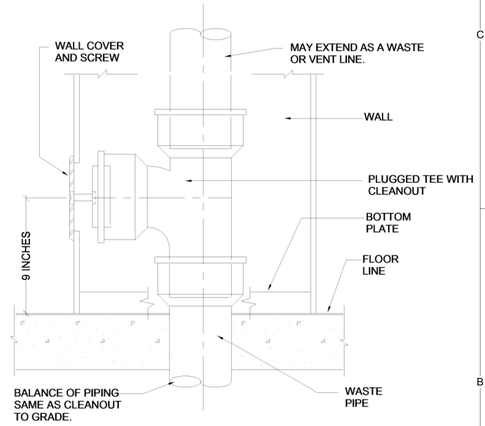

C5 GAS PIPING DIAGRAM
SCALE: NONE



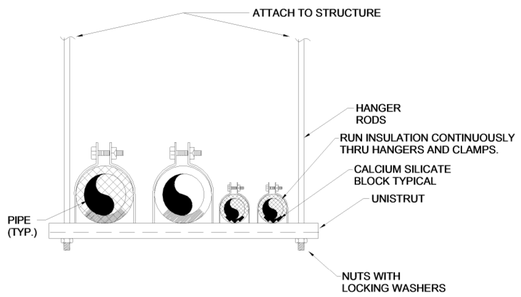

B2 ROOF DRAIN DETAIL
SCALE: NONE



B4 TRAP GUARD DETAIL
SCALE: NONE

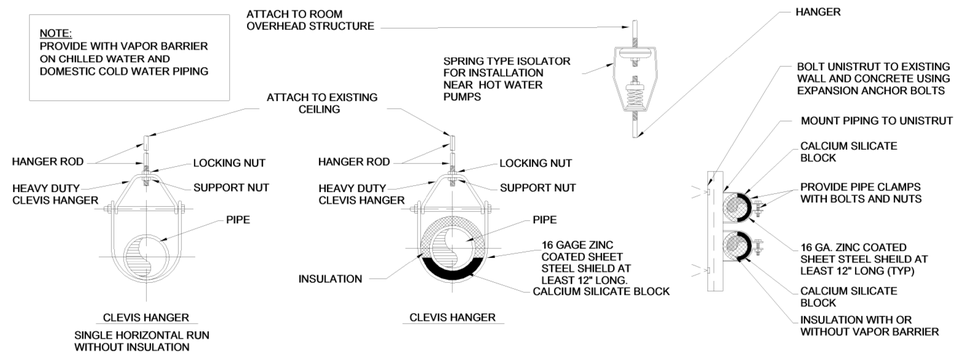



B5 WALL CLEAN-OUT DETAIL
SCALE: NONE




A3 TRAPEZE PIPE HANGER DETAIL
SCALE: NONE

NOTE:
PROVIDE WITH VAPOR BARRIER ON CHILLED WATER AND DOMESTIC COLD WATER PIPING




A4 PIPE HANGER DETAIL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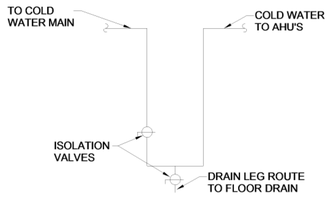
Construction Documents

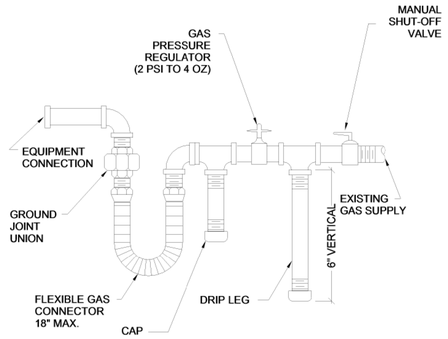
PLUMBING DETAILS

PE5-01



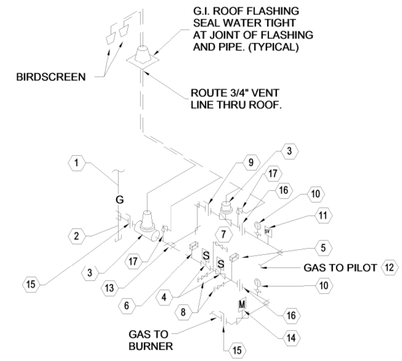

## DETAIL A: DRAIN LEG FOR AH WATER

C SCALE: NONE




## D3 GAS LINE CONNECTION DETAIL

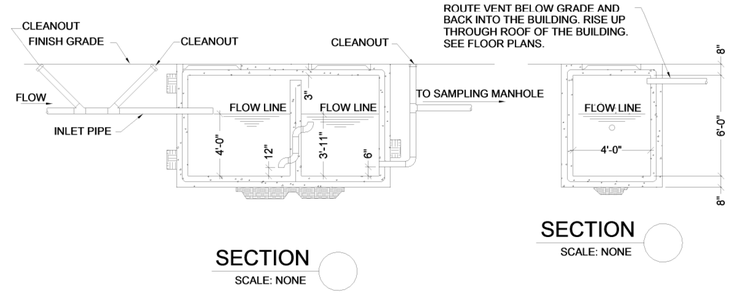
SCALE: NONE




## D4 CSD-1 AUTO-IGNITION GAS TRAIN DETAIL

SCALE: NONE

| LEGEND | |
|---|---|
| NO. | ITEM |
| 1 | GAS INLET |
| 2 | DIRT LEG FULL SIZE |
| 3 | GAS PRESSURE REGULATOR |
| 4 | MOTORIZED SAFETY VALVE |
| 5 | HIGH PRESSURE SWITCH |
| 6 | LOW PRESSURE SWITCH |
| 7 | VENT VALVE AND VENT |
| 8 | TEST COCK |
| 9 | SHUT-OFF COCK |
| 10 | PRESSURE GUAGE |
| 11 | SOLENOID VALVE |
| 12 | GAS TO PILOT |
| 13 | GAS TAKE-OFF TO PILOT |
| 14 | MOTORIZED MODULATING VALVE |
| 15 | SHUT-OFF VALVE |
| 16 | UNION |
| 17 | RELIEF VALVE-VENT TO ATMOSPHERE |

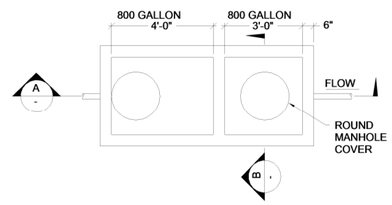



SECTION

SCALE: NONE

SECTION

SCALE: NONE

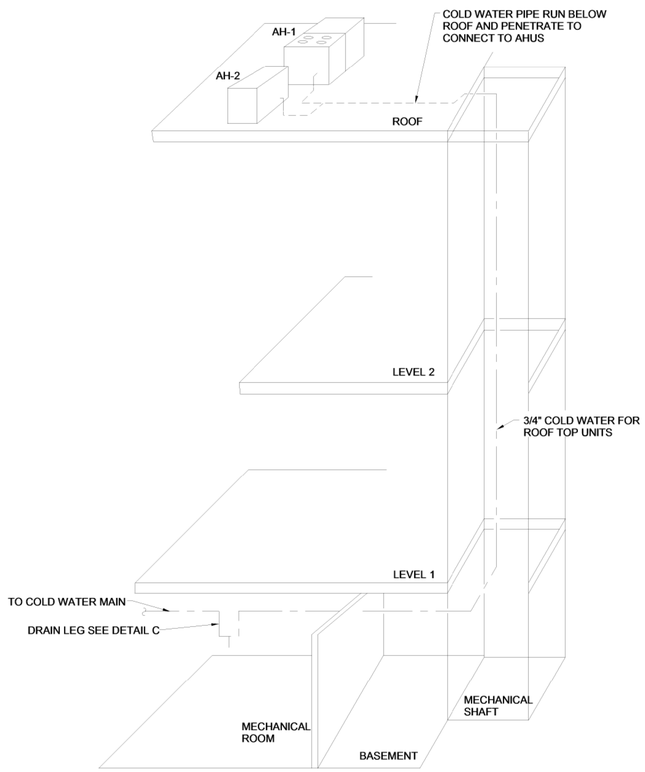



## C4 GREASE INTERCEPTOR

SCALE: NONE

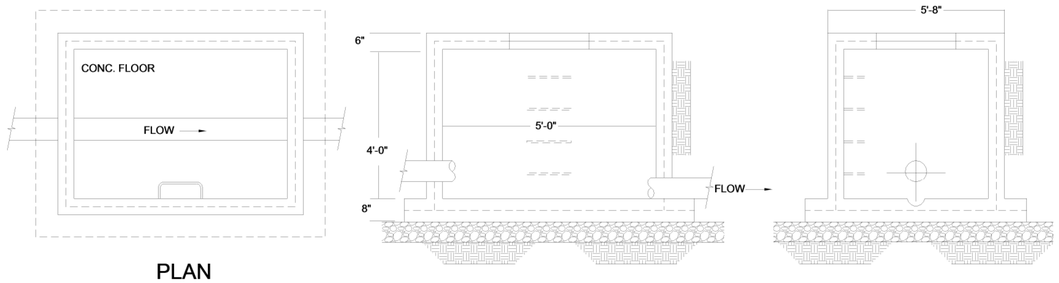
NOTES:

1. PIPING, CLEANOUT CONFIGURATION, SIZE AND TYPE OG PIPING MATERIAL AS PER CITY OR SANITARY DISTRICT. INSPECTION BY SVWRF PRIOR TO BACKFILLING REQUIRED.
2. INTERCEPTOR PIPING AND OTHER ASSOCIATED PIPING CHANGES THAT ARE NECESSARY TO INSTALL INTERCEPTOR MUST BE IN ACCORDANCE WITH LOCAL REGULATIONS.
3. INTERCEPTOR MUST BE PROPERLY VENTED IN ACCORDANCE WITH UNIFORM PLUMBING CODE STANDARDS.
4. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
5. REINFORCEMENT STEEL SHALL BE ASTM A615 GRADE 60.
6. THE CONCRETE COVER OVER REINFORCEMENT STEEL SHALL BE A MINIMUM OF 1-1/2 INCHES.
7. THE STRUCTURE SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF UTAH.
8. THE STRUCTURE SHALL BE DESIGNED FOR THE FOLLOWING LOADING CRITERIA
   A) WALLS DESIGNED FOR A SATURATED EQUIVALENT FLUID AT-REST SOIL PRESSURE OF 90 PCF PLUS TRUCK SURCHARGES.
   B) TRUCK LOADING USING AN AASHTO H-20 TRUCK LOAD.
9. MANWAY FRAME AND COVER SHALL BE A TRAFFIC TYPE CASTING FOR H-20 TRUCK LOAD.
10. THE INLET PIPE SHALL BE AT AN ELEVATION OF 1' HIGHER THAN THE OUTLET PIPE.
11. WHERE THE SEWER LINE ALREADY EXISTS, THE SEWER INVERT INTO AND GUT OUT THE INTERCEPTOR SHALL BE 4'-0" ABOVE THE INTERCEPTOR FLOOR.
12. THE BAFFLE IN THE INTERCEPTOR SHALL BE WITHIN 3" OF CEILING.
13. COVERS SHALL BE CIRCULAR AND BE SOLID.
14. SANITARY WASTE FROM TOILETS MUST NOT BE PLUMBED THROUGH THE INTERCEPTOR.
15. INTERCEPTOR MUST BE LOCATED IN SUCH A MANNER THAT IT IS READILY ACCESSIBLE FOR CLEANING.




## A1 COLD WATER SUPPLY FOR ROOF TOP UNITS

SCALE: NONE




PLAN

SECTION

SECTION

## A5 SAMPLING MANHOLE BOX DETAIL

SCALE: NONE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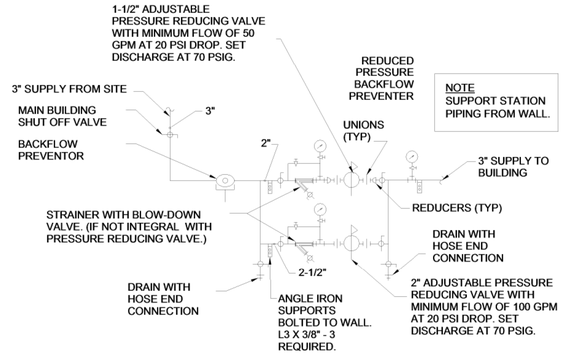
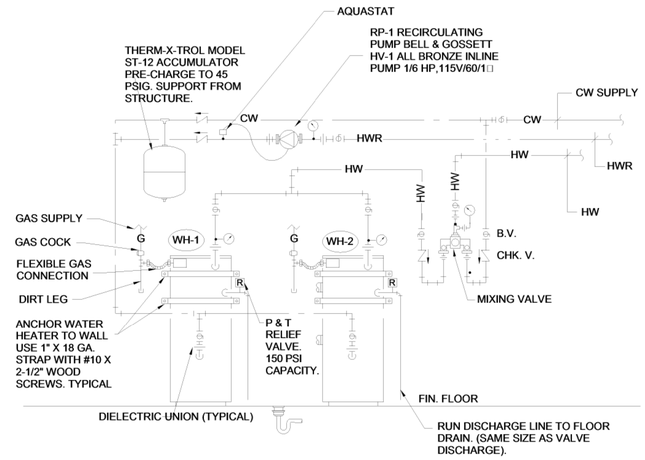
PLUMBING DETAILS

PE5-02




## D3 HORIZONTAL WATER PRESSURE REDUCING STATION DETAIL

SCALE: NONE




## D5 WATER HEATER DETAIL

SCALE: NONE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Construction Documents

PLUMBING DETAILS

PE5-03

## WATER HEATER (GAS) SCHEDULE

TAG

| EQUIPMENT NUMBER | INPUT (BTU/HR) | OUTPUT (BTU/HR) | GPH RECOVERY @ 100 F | STORAGE CAPACITY | RELIEF VALVE BTU / PRESSURE RATING | FLUE | OPERATING WEIGHT | MIN EFFICIENCY | MANUF & MODEL | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| WH-1 | 199000 Btu/h | 189000 Btu/h | 277 | 100 gal | PER MANUFACTURERS RECOMMENDATIONS | 4" | 1100 lb | 95% | AO SMITH CYCLONE XHE BTH-199 | 1,2,3 |
| WH-2 | 199000 Btu/h | 189000 Btu/h | 277 | 100 gal | PER MANUFACTURERS RECOMMENDATIONS | 4" | 1100 lb | 95% | AO SMITH CYCLONE XHE BTH-199 | 1,2,3 |

1. SEE PLUMBING FIXTURE SCHEDULE FOR RECIRC PUMP.
2. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
3. COORDINATE WITH ELECTRICAL TO PROVIDE 120 VOLT SINGLE PHASE POWER.

## SUMP PUMP SCHEDULE

TYP #

| TAG | | | HEAD (FT WC) | FLOW (GPM) | SUCTION SIZE (IN) | DISCHARGE SIZE (IIN) | ELECTRICAL | | | | | MANUF & MODEL | SCHEDULE NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TYPE | # | TYPE | | | | | VOLTAGE | PHASE | FREQUENCY | HP | RPM | | |
| SP | 1 | PORTABLE SUBMERSIBLE SUMP | 15 | 85 | N/A | 2" | 120 V | 1 | 60 Hz | 0.5 hp | 3300 | ZOELLER 6161 | 1 |

1. PROVIDE PORTABLE SUBMERSIBLE SUMP PUMP TO OWNER TO BE USED IN THE ELEVATOR PIT WHEN NEEDED. COORDINATE WITH ELECTRICAL TO PROVIDE OUTLET IN PIT.

## PLUMBING FIXTURE SCHEDULE

TAG

| wt | FIXTURE | PF TRAP | PF WASTE | PF VENT | PF COLD WATER | PF HOT WATER | REMARKS |
|---|---|---|---|---|---|---|---|
| BS-1 | BREAK SINK | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | UNDER MOUNTED STAINLESS STEEL SINK. ELKAY ECTRU12179 OR EQUAL. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. GOOSENECK FAUCET AND WRIST BLADE HANDLES.ELKAY LK800GN08L2 OR EQUAL. |
| BT-1 | BATH TUB | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | PROVIDE WITH SHOWER HEAD, FAUCET AND TUB. COORDINATE SHOWER FAUCET TYPE AND TUB TYPE WITH OWNER. |
| DF-1 | EXTERIOR DRINKING FOUNTAIN | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 0" | EXTERIOR FREEZE RESISTANT VANDAL-RESISTANT FOUNTAIN. ELKAY LK4405FRK OR EQUAL. |
| DS-1 | DOWN SPOUT | 0" | 3" | 0" | 0" | 0" | PROVIDE DOWN SPOUT. TERMINATE APPROXIMATELY 24" ABOVE GRADE. WATTS RD-940 OR EQUAL. |
| DS-2 | DOWN SPOUT | 0" | | 0" | 0" | 0" | PROVIDE DOWN SPOUT. TERMINATE APPROXIMATELY 24" ABOVE GRADE. WATTS RD-940 OR EQUAL. |
| EWC-1 | ELECTRIC WATER COOLER | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 0" | ELECTRIC BI-LEVEL FOUNTAIN WITH BOTTLE FILLER. ELKAY LZSTL8WSLP OR EQUAL. |
| FD-1 | FLOOR DRAIN | 2" | 2" | 1 1/2" | 0" | 0" | PROVIDE WITH TRAP GUARD. WATTS FD-100-A OR EQUAL. |
| FD-2 | FLOOR DRAIN | 3" | 3" | 1 1/2" | 0" | 0" | PROVIDE WITH TRAP GUARD. WATTS FD-100-A OR EQUAL. |
| FD-3 | FLOOR DRAIN | 2" | 2" | 1 1/2" | 0" | 0" | PROVIDE WITH TRAP GUARD. PROVIDE WITH STAINLESS STEEL COVERPLATE. WATTS FD-100-A OR EQUAL. |
| FS-1 | FLOOR SINK | 2" | 2" | 1 1/2" | 0" | 0" | PROVIDE WITH TRAP GUARD. PROVIDE WITH HALF GRATE. WATTS FS-712 OR EQUAL. |
| GI-1 | GREASE INTERCEPTOR | 0" | 4" | 0" | 0" | 0" | 800 GALLON GREASE INTERCEPTOR. SEE DETAIL. |
| H-1 | HYDRANT | 0" | 0" | 0" | 3/4" | 0" | PROVIDE RECESSED KEYED FREEZEPROOF WALL HYDRANT. WOODFORD MODEL B67 OR EQUAL. PROVIDE WITH COVER PLATE. |
| HB-1 | HOSE BIB | 0" | 0" | 0" | 1/2" | 0" | PROVIDE KEYED HOSE BIB. WOODFORD 24 OR EQUAL. |
| HB-2 | HOSE BIB | 0" | 0" | 0" | 0" | 1/2" | PROVIDE KEYED HOSE BIB. WOODFORD 24 OR EQUAL. |
| HS-1 | HAND SINK | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | SQUARE UNDER MOUNT SINK. KOHLER K-6585 OR EQUAL. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE WITH GOOSENECK FAUCET AND WRIST BLADE HANDLES. ELKAY LK800GN08L2 OR EQUAL. FAUCET WILL BE INSTALLED ON BACK OF SINK. |
| HS-2 | HAND SINK | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | SQUARE UNDER MOUNT SINK. KOHLER K-6585 OR EQUAL. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE WITH GOOSENECK FAUCET, WRIST BLADE HANDLES AND BUBBLER. ELKAY LK800GN08L2 AND JUST JBB-5 OR EQUAL. FAUCET TO BE INSTALLED ON LEFT SIDE OF SINK AND BUBBLER WILL BE INSTALLED ON THE RIGHT SIDE OF THE SINK. |
| HS-3 | HAND SINK | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | SQUARE UNDER MOUNT SINK. KOHLER 5400 OR EQUAL. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE WITH MOTION SENSOR FAUCET. KOHLER K-7515 OR EQUAL.FAUCET TO BE INSTALLED AT BACK OF SINK. |
| HS-4 | HAND SINK | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | SQUARE UNDER MOUNT SINK. KOHLER K-6585 OR EQUAL. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE WITH MOTION SENSOR GOOSENECK FAUCET AND BUBBLER. KOHLER K-7519 AND JUST JBB-5 OR EQUAL. FAUCET WILL BE INSTALLED ON BACK OF SINK AND BUBBLER WILL BE INSTALLED ON RIGHT SIDE OF SINK. |
| HS-5 | HAND SINK | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | SQUARE UNDER MOUNT SINK. KOHLER K-6585 OR EQUAL. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE WITH MOTION SENSOR GOOSNECK FAUCET. KOHLER K-7519 OR EQUAL. FAUCET WILL BE INSTALLED ON BACK OF SINK. |
| HS-6 | HAND SINK | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | WALL MOUNTED SINK WITH SHROUD. KOHLER K-2035 OR EQUAL. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE WITH MOTION SENSOR FAUCET. KOHLER K-7515 OR EQUAL. |
| K8 | COMBI-OVEN | 0" | 0" | 0" | 3/4" | 0" | FIXTURE PROVIDED BY FOOD SERVICE CONTRACTOR. PROVIDE HOT AND COLD WATER, WASTE AND VENT CONNECTIONS. |
| K15 | HOT FOOD WARMER | 0" | 0" | 0" | 1/2" | 0" | FIXTURE PROVIDED BY FOOD SERVICE CONTRACTOR. PROVIDE HOT AND COLD WATER, WASTE AND VENT CONNECTIONS. |
| K18 | HAND SINK | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | FIXTURE PROVIDED BY FOOD SERVICE CONTRACTOR. PROVIDE HOT AND COLD WATER, WASTE AND VENT CONNECTIONS. |
| K21 | KITCHEN SINK | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | FIXTURE PROVIDED BY FOOD SERVICE CONTRACTOR. PROVIDE HOT AND COLD WATER, WASTE AND VENT CONNECTIONS. |
| K25 | DISHWASHER | 0" | 0" | 0" | 0" | 3/4" | FIXTURE PROVIDED BY FOOD SERVICE CONTRACTOR. PROVIDE HOT AND COLD WATER, WASTE AND VENT CONNECTIONS. |
| K27 | KITCHEN SINK | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | FIXTURE PROVIDED BY FOOD SERVICE CONTRACTOR. PROVIDE HOT AND COLD WATER, WASTE AND VENT CONNECTIONS. |
| L-1 | LAVATORY | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | SQUARE UNDER MOUNT SINK. KOHLER 5400 OR EQUAL. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE WITH GOOSENECK FAUCET AND WRIST BLADE HANDLES. CHICAGO 404-ABCP OR EQUAL. |
| L-2 | LAVATORY | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | SQUARE UNDER MOUNT SINK. KOHLER 5400 OR EQUAL. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE WITH MOTION SENSOR FAUCET. KOHLER K-7514 OR EQUAL. |
| L-3 | LAVATORY | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | WALL MOUNTED SINK WITH SHROUD. KOHLER K-2035 OR EQUAL. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE WITH MOTION SENSOR FAUCET. KOHLER K-7514 OR EQUAL. |
| L-4 | LAVATORY | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | UNDER MOUNT SINK. AMERICAN STANDARD ORBIT OR EQUAL. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE WITH GOOSENECK FAUCET AND WRIST BLADE HANDLES. CHICAGO 404-ABCP OR EQUAL. |
| L-5 | LAVATORY | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | UNDER MOUNT SINK. AMERICAN STANDARD ORBIT OR EQUAL. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE WITH GOOSENECK MOTION SENSOR FAUCET. SYMMONS S-6080 OR EQUAL. |
| MS-1 | MOP SINK | 3" | 3" | 2" | 3/4" | 3/4" | CORNER MOUNTED SINK. KOHLER K-6710 OR EQUAL. PROVIDE WITH DRAIN FITTING, SERVICE SINK FAUCET WITH VACUUM BREAKER, HOSE, 3 STATION MOP HOLDER, HOSE HANGER, AND STAINLESS STEEL SPLASH GUARD. FAUCET JUST JVB-1200 OR EQUAL. |
| PRD-1 | PRIMARY ROOF DRAIN | 0" | 4" | 0" | 0" | 0" | SMALL CORNICE TYPE ROOF DRAIN. PROVIDE WITH DOME STRAINTER. ZURN Z180 OR EQUAL. |
| PRD-2 | PRIMARY ROOF DRAIN | 0" | 3" | 0" | 0" | 0" | PROVIDE WITH DOME STRAINTER. WATTS RD-100 OR EQUAL. |
| PRD-3 | PRIMARY ROOF DRAIN | 0" | 4" | 0" | 0" | 0" | PROVIDE WITH DOME STRAINTER. WATTS RD-100 OR EQUAL. |
| PRD-4 | PRIMARY ROOF DRAIN | 0" | 3" | 0" | 0" | 0" | PROVIDE WITH DOME STRAINTER. WATTS RD-100 OR EQUAL. |
| RP-1 | RECIRC PUMP | 0" | 0" | 0" | 0" | 3/4" | 2 GPM AT 15 FEET HEAD. BRONZE IMPELLER. 120 VOLT 1 PHASE 60 HZ 1/12 HP. BELL AND GOSSETT PL-30 OR APPROVED EQUAL. COORDINATE WITH ELECTICAL TO PROVIDE MANUAL SHUTOFF. |
| SH-1 | SHOWER ADA | 2" | 2" | 1 1/2" | 1/2" | 1/2" | ADA COMPLIANT. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. PROVIDE WITH FLEXIBLE SHOWER HEAD AND COLAPSIBLE SHOWER SEAT. BRADLEY HN300 OR EQUAL. |
| SH-2 | SHOWER | 2" | 2" | 1 1/2" | 1/2" | 1/2" | PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. BRADLEY 1C OR EQUAL. |
| SRD-2 | SECONDARY ROOF DRAIN | 0" | 3" | 0" | 0" | 0" | PROVIDE WITH DOME STRAINTER. WATTS RD-100 OR EQUAL. |
| SRD-3 | SECONDARY ROOF DRAIN | 0" | 4" | 0" | 0" | 0" | PROVIDE WITH DOME STRAINTER. WATTS RD-100 OR EQUAL. |
| SRD-4 | SECONDARY ROOF DRAIN | 0" | 3" | 0" | 0" | 0" | PROVIDE WITH DOME STRAINTER. WATTS RD-100 OR EQUAL. |
| U-1 | URINAL | 3" | 3" | 2" | 3/4" | 0" | WALL MOUNTED FLUSH VALVE. ZURN Z5798.205.00 OR EQUAL. |
| WB-1 | WASHING MACHINE SUPPLY AND DRAIN BOX | 3" | 3" | 2" | 3/4" | 3/4" | GUY GRAY MODEL B150 OR EQUAL. SHALL HAVE HOT AND COLD WATER SHUTOFFS AND STAND PIPE DRAIN IN RECESSED WALL BOX. |
| WC-1 | WATER CLOSET | 0" | 4" | 2" | 1 1/4" | 0" | ADA COMPLIANT. WALL MOUNTED FLUSH VALVE WATER CLOSET WITH MAP SCORE OF 1000. KOHLER KINGSTON OR EQUAL WITH SLOAN BATTERY SENSER FLUSHOMETER. 1.28 GPF. |
| WC-2 | WATER CLOSET | 0" | 4" | 2" | 1 1/4" | 0" | WALL MOUNTED FLUSH VALVE WATER CLOSET WITH MAP SCORE OF 1000. KOHLER KINGSTON OR EQUAL WITH SLOAN BATTERY SENSER FLUSHOMETER. 1.28 GPF. |
| WC-3 | WATER CLOSET | 0" | 4" | 2" | 1 1/4" | 0" | FLOOR MOUNTED PRIMARY FLUSH VALVE WATER CLOSET. KOHLER PRIMARY K-4321 OR EQUAL WITH SLOAN BATTERY SENSER FLUSHOMETER. 1.6 GPF. |


JACOBY ARCHITECTS

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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|
| PLAN REVIEW | 05/11/15 |

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |
| 2015 01 30 | 50% Progress Set |
| 2015 03 13 | 75% Progress Set |
| 2015 04 15 | 100% Construction Documents |
| 2015 05 21 | Bidding Documents |

Construction Documents

PLUMBING SCHEDULES

PE6-01

## SECURITY SYMBOLS LIST

| SYMBOL | DESCRIPTION |
|---|---|
| | CARD READER (PERSONA) |
| | DOOR CONTACT |
| S | SECURITY CAMERA |
| M | MEDIA CAMERA |
| | OBSERVATION CAMERA |

## CALLOUT SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| T-X | LIGHTING FIXTURE CALLOUT |
| XX-X | MECHANICAL EQUIPMENT CALLOUT |
| X E-XXX | DEVICE REFERENCE CALLOUT |
| X X | REFERENCE NOTE CALLOUT |

## ABBREVIATIONS SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| W.P. | INDICATES WEATHER PROOF EQUIPMENT |
| A | INDICATES DEVICE IS ABOVE COUNTER TOP |
| CLG. | INDICATES CEILING MOUNTED DEVICE |
| C.O. | CONVIENCE OUTLET |
| CU | COPPER |
| E | INDICATES DEVICE IS ON EMERGENCY CIRCUIT |
| F.A.C.P. | FIRE ALARM CONTROL PANEL |
| F.A.R.A.P. | FIRE ALARM REMOTE ANNUNCIATOR PANEL |
| F.A.N.E.P. | FIRE ALARM NETWORK EXPANDER PANEL |
| F.L.A. | FULL LOAD AMPERAGE |
| M.C.A. | MINIMUM CIRCUIT AMPERAGE |
| M.C.B. | MAIN CIRCUIT BREAKER |
| M.M.C. | MULTIMEDIA CABINET |
| M.L.O. | MAIN LUG ONLY |
| O.H.P. | OVERHEAD PROJECTOR |
| O.I.T. | OFFICE OF INFORMATION TECHNOLOGY |
| S | INDICATES DEVICE IS SURFACE MOUNTED |
| T.V.S.S. | TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| TYP | TYPICAL |
| U.P.S. | UNINTERRUPTIBLE POWER SUPPLY |
| VFD | VARIABLE FREQUENCY DRIVE |
| XFMR | TRANSFORMER |

## DISCONNECTS/CIRCUIT BREAKER SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| | NON FUSED DISCONNECT SWITCH - SIZE AS REQUIRED |
| | FUSED DISCONNECT SWITCH - SIZE AS REQUIRED |
| S | COMBINATION STARTER/FUSED DISCONNECT SWITCH - SIZE AS REQUIRED |
| | CIRCUIT BREAKER DISCONNECT - SIZE AS REQUIRED |
| | FUSE - SIZE AS REQUIRED |
| | MOTOR LOCATION |
| | ELECTRICAL PANEL LOCATION |
| | ELECTRICAL METER LOCATION |

## RECEPTACLES SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| | SINGLE OUTLET |
| | DUPLEX CONVENIENCE OUTLET - 20 AMP |
| | DUPLEX CONVENIENCE OUTLET - 20 AMP GROUND FAULT INTERRUPTER |
| | 4-PLEX CONVENIENCE OUTLET - 20 AMP |
| EWC | DUPLEX CONVENIENCE OUTLET - 20 AMP ELECTRIC WATER COOLER |
| | SPECIAL PURPOSE SINGLE PHASE OUTLET. PROVIDE CONDUCTORS TO MEET OR EXCEED THE AMPACITY OF THE OUTLET PER NEC 310-16, USE 75 DEGREE C COLUMN. |
| | SPECIAL PURPOSE THREE PHASE OUTLET. PROVIDE CONDUCTORS TO MEET OR EXCEED THE AMPACITY OF THE OUTLET PER NEC 310-16, USE 75 DEGREE C COLUMN. |
| | FLUSH FLOOR OUTLET BOX |
| J | JUNCTION BOX - SIZE AND FUNCTION AS REQUIRED |
| | DUAL CHANNEL SURFACE MOUNTED RACEWAY - POWER AND DATA |
| | SURFACE MOUNTED RACEWAY WITH 20 AMP MONO OUTLET AT SPACING SHOWN |
| | SURFACE MOUNTED RACEWAY WITH 20 AMP DUPLEX OUTLET AT SPACING SHOWN |

## CONDUITS SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| | CONDUITS CONCEALED IN FLOOR OR BELOW GRADE |
| | CONDUITS CONCEALED IN CEILING AND WALLS |
| | ARROWS INDICATE HOME RUNS |

## GENERAL NOTES:

51. ALL MATERIALS TO BE REMOVED AND RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.
52. DETAILS ARE SHOWN ON DIFFERENT SHEETS. THE CONTRACTOR SHALL REFER TO THOSE DETAILS WHETHER OR NOT CALLED IN REFERENCE NOTES.
53. CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
54. ELECTRICAL CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION MEETING WITH ELECTRICAL SHOP SUPERVISOR.
55. ALL J-BOX FEEDING RECESSED LIGHT FIXTURES IN THE GYP. BOARD CEILING SHALL BE LOCATED WITHIN 8" FROM LIGHT FIXTURE OPENING.
56. LIMIT COMMUNICATION CONDUIT TO TWO (2) 90 DEGREE BENDS.
57. COORDINATE LOCATIONS OF ALL ELECTRICAL DEVICES (SPEAKERS, BOXES, T.V. OUTLETS, ETC.) WITH ARCHITECTURAL DRAWINGS.

## SPECIAL NOTES:

1. NO COMMUNICATIONS CABLE SHOULD EXCEED 280' IN LENGTH. IF CABLE RUN IS OVER 280', THEN CABLE IS TO BE RUN IN CONDUIT DIRECTLY TO THE COMMUNICATIONS ROOM AND NOT THROUGH THE CABLE TRAY.
2. THERE SHOULD BE NO MORE THAN TWO (2) 90 DEGREE BENDS FOR COMMUNICATION CONDUIT. IF MORE THAN (2) 90 DEGREE BENDS ARE REQUIRED, THEN USE AN ACCESSIBLE PULL BOX.
3. PROVIDE PUTTY PADS FOR ALL J-BOX'S FOR SOUND PROOFING.

## COMMUNICATION SYSTEMS SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| | TELEPHONE TERMINAL BOARD |
| | GROUND BUS BAR |
| | FLUSH FLOOR OUTLET WITH TELE/DATA. TO BE HUBBELL OR WIREMOLD RFB4-SS/S38PTXXX WITH 2 DUPLEX OUTLETS AND 2 DATA OUTLETS AND COVERPLATES |
| | FLUSH TELE/DATA OUTLET BY TELECOMMUNICATIONS CONTRACTOR |
| WL | WIRELESS DEVICE IN THE CEILING |
| S | SPEAKER |
| TV | FLUSH TELEVISION OUTLET BY TELECOMMUNICATIONS CONTRACTOR |
| M | MICROPHONE JACK |
| B | BELL |
| P | O.H.P. - OVER HEAD PROJECTOR |
| | CABLE TRAY |

## SWITCHES SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| $ | SINGLE POLE TOGGLE SWITCH - 20 AMP |
| $a,b | SINGLE POLE TOGGLE SWITCH - 20 AMP, LETTERS INDICATE SWITCH ASSIGNMENT |
| $3 | THREE WAY TOGGLE SWITCH - 20 AMP |
| $4 | FOUR WAY TOGGLE SWITCH - 20 AMP |
| $P | PILOT LIGHT TOGGLE SWITCH |
| $k | KEYED LIGHT SWITCH |
| PC | PHOTO CELL SENSOR - LIGHTING CONTROL SYSTEM |
| $T | MANUAL DISCONNECT WITH THERMAL OVERLOAD PROTECTION |
| | OCCUPANCY SENSOR, WALL MOUNT |
| | OCCUPANCY SENSOR, CEILING MOUNT |
| | PUSH BUTTON SWITCH |

## FIRE ALARM SYSTEM SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| XXX | WATERFLOOD (XXX - ADDRESS) |
| | SMOKE DETECTOR |
| FSD | FIRE SMOKE DAMPER |
| | SPEAKER/STROBE |
| | STROBE ONLY |
| F | HAND PULL |
| | DOOR HOLDER |
| TS | TAMPER SWITCH |
| | DUCT DETECTOR |
| FS | FLOW SWITCH |

## LIGHTING SYSTEMS SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| | ELECTRICAL PANEL LOCATION |
| | LAY-IN MOUNTED FLUORESCENT FIXTURE |
| E | EMERGENCY LIGHTING |
| | STRIP LIGHT FIXTURE |
| | RECESSED FIXTURE |
| | WALL MOUNTED FIXTURE |
| | PENDANT MOUNTED LIGHT FIXTURE - LENGTH AS SHOWN |
| | EXIT LIGHT. ARROWS SHOW EXIT DIRECTION |
| | PENDANT MOUNTED FIXTURE |
| | RECESSED WALL WASHER FIXTURE |
| | METAL HALIDE PROJECTOR LIGHT FIXTURE |
| | CEILING MOUNTED MIRRORS |
| | WALL MOUNTED LIGHT FIXTURE |
| | TRACK LIGHTING FIXTURE |
| | POST MOUNTED PARKING OR WALKWAY LIGHTING |

## GENERAL NOTES:

1. COORDINATE LOCATIONS OF ALL ELECTRICAL DEVICES (SPEAKERS, BOXES, T.V. OUTLETS, ETC.) WITH ARCHITECTURAL DRAWINGS.
2. ALL CONCEALED CONDUIT THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISH SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND REMOVED FROM THE CONDUIT.
3. IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED TO THE DEVICES WHICH ARE TO REMAIN, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUIT INTEGRITY.
4. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
5. THE COLOR OF THE LIGHT FIXTURES SHALL BE SELECTED BY THE ARCHITECT.
6. COORDINATE WITH THE OWNER AND ARCHITECT FOR THE EXACT LOCATION OF THE OUTLETS.
7. PRIOR TO SUBMITTING A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED. ALL LABOR, MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE BY THE TENANT. REPLACE OR REPAIR ALL DEFECTS DURING THE GUARANTEED PERIOD.
8. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL BID. FAILURE TO REPORT ANY DISCREPANCY (CATALOG NUMBERS, DISCONTINUED ITEMS, ETC.) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO AND FULFILL THE INTENT OF THE CONTRACT DOCUMENTS, NOR SHALL IT BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS IN WRITING TO THE ARCHITECT/ENGINEER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL BID.
9. REFER TO THE MECHANICAL SHEETS FOR THE EXACT LOCATION OF THE MECHANICAL EQUIPMENT.
10. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE MECHANICAL CONTRACTOR SO THAT NO PIPING, DUCTS, OR OTHER EQUIPMENT SHALL BE INSTALLED IN ENTRY OR PASS THROUGH ELECTRICAL ROOM OR SPACES ABOVE OR BELOW ELECTRICAL PANELS.
11. ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENT, ETC.) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS PRIOR TO BEGINNING ROUGH-IN.
13. MINIMUM SIZE OF CONDUIT TO BE 3/4". ALUMINUM CONDUITS SHALL NOT BE USED.
14. USE RIGID STEEL SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTINGS SHALL NOT BE USED.
15. RUN A NEUTRAL CONDUCTOR FOR EACH PHASE CONDUCTOR (EACH CIRCUIT) IN A CONDUIT. NOT MORE THAN THREE (3) CIRCUITS IN A CONDUIT. THREE (3) PHASE CONDUCTORS, THREE (3) NEUTRAL CONDUCTORS (ONE FOR EACH PHASE) AND ONE (1) GROUND CONDUCTOR FOR A TOTAL OF SEVEN (7) CONDUCTORS COMPLY WITH NEC ARTICLE 210.4.
16. PROVIDE PULL WIRES IN EMPTY CONDUITS. REFER TO SPECIFICATION SECTION 260533 FOR MORE INFORMATION.
17. THE MINIMUM SIZE OF THE CONDUCTORS SHALL BE #12 AWG THHN STRANDED COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
18. ALL J-BOXES SHALL HAVE MINIMUM DEPTH OF 3" UNLESS OTHERWISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER MUD RINGS.
19. ALL NEW EXPOSED CONDUIT SHALL RUN AGAINST THE WALLS OR CEILINGS. DO NOT PENDANT MOUNT ANY CONDUIT FROM THE CEILINGS. KEEP CONDUITS AT ROOF DECK 1-1/2" BELOW THE ROOF DECK PER NEC.
20. AT THE END OF THE JOB, PROVIDE BLANK COVER PLATES TO MATCH THE OTHER COVER PLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
21. SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH FIRE RATED MATERIAL. 3M IS AN APPROVED MANUFACTURER.
22. ALL ELECTRICAL WIRING MUST BE IN CONDUIT (ROMEX AND MC CABLE ARE NOT PERMITTED).
23. FLEXIBLE CONDUITS CAN ONLY BE USED FOR SHORT RUNS (6' MAXIMUM). REFER TO SPECIFICATION SECTION #260533 FOR MORE INFORMATION.
24. NO CONDUITS SHALL RUN IN DUCT WORK.
25. THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE ELECTRICAL CONNECTIONS TO ALL THE EQUIPMENT BY PROVIDING THE NECESSARY MALE/FEMALE CONNECTOR, RECEPTACLE, PLUG, ETC.
26. USE NO. 10 THHN CONDUCTORS FOR CONDUCTOR LENGTH OVER 100 FEET, NO. 8 THHN OVER 200 FEET, NO. 6 THHN OVER 300 FEET AND NO. 4 THHN OVER 400 FEET LENGTH.
27. ALL CONDUITS EXPOSED TO THE WEATHER AND IN THE BOILER ROOM SHALL BE GALVANIZED RIGID STEEL, UNLESS OTHERWISE NOTED.
28. THE FIRST 10' LENGTH OF ALL BURIED CONDUIT SHALL BE RIGID GALVANIZED STEEL WHERE THEY ARE LEAVING OR ENTERING THE BUILDING, MANHOLE, VAULT, ETC.
29. ALL METALLIC CONDUITS, JOINTS, FITTINGS, ETC., IN CONTACT WITH THE GROUND SHALL BE SPIRALLY WRAPPED WITH 3M SCOTCHRAP-51, 20 MIL TAPE (OR APPROVED EQUAL). 50% OVERLAP IS REQUIRED.
30. ALL UNDERGROUND CONDUIT SHALL BE BURIED 24" MINIMUM BELOW FINAL FINISHED SURFACES OR AS SPECIFIED.
31. PROVIDE TYPED LABEL FOR ALL DUPLEX OUTLETS AND LIGHT SWITCHES TO INDICATE WHICH CIRCUIT THEY ARE TIED TO. REFER TO SPECIFICATION #260533 FOR MORE INFORMATION.
32. ALL DUPLEX OUTLETS AND SWITCHES SHALL BE 20 AMP., 120 VOLT SPEC GRADE. HUBBELL AND PASS & SEYMOUR AND LEVITON ARE APPROVED MANUFACTURERS. REFER TO SPECIFICATION #262726 FOR MORE INFORMATION.
33. LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH ONE PIECE COVERPLATE.
34. INSTALL LIGHT SWITCHES 10" TO THE DOOR. COORDINATE EXACT LOCATION OF LIGHT SWITCHES WITH ARCHITECT.
35. SUPPORT THE LAY-IN TYPE FIXTURES INCLUDING DOWN LIGHT FIXTURE FROM THE CEILING DECK INDEPENDENT OF THE CEILING GRID, AS SHOWN ON THE TYPICAL RECESSED FIXTURE MOUNTING DETAIL.
36. INSTALL EXIT SIGNS ON THE WALL IF POSSIBLE.
37. ALL PANELBOARDS SHALL HAVE FULL SIZE NEUTRAL AND GROUND COPPER BUS BARS.
38. SUCCESSFUL BIDDER FOR THE PANELBOARDS, MAIN DISTRIBUTION PANEL, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC., SHALL INCLUDE IN THEIR SUBMITTALS, LAYOUTS OF ALL THE ELECTRICAL ROOMS TO SHOW THE ELECTRICAL SWITCH GEAR LAYOUT OF EACH ROOM. (SCALE: 1/4" = 1'-0").
39. USE EPOXY ANCHORS TO SUPPORT THE ELECTRICAL EQUIPMENT. EXPANSION ANCHOR BOLTS ARE NOT ACCEPTED.
40. ALL PANELS SHALL HAVE COPPER BUSSES AND SHALL BE BRACED FOR A MINIMUM OF 10,000 AIC OR AS SPECIFIED.
41. A SIGN SHALL BE PLACED AT THE SERVICE ENTRANCE EQUIPMENT, INDICATING TYPE AND LOCATION OF ONSITE EMERGENCY POWER SOURCES.
42. WHERE THE GROUNDED CIRCUIT CONDUCTOR CONNECTED TO THE EMERGENCY SOURCE IS CONNECTED TO A GROUNDING ELECTRODE CONDUCTOR AT A LOCATION REMOTE FROM THE EMERGENCY SOURCE, THERE SHALL BE A SIGN AT THE GROUNDING LOCATION THAT SHALL IDENTIFY ALL EMERGENCY AND NORMAL SOURCES CONNECTED AT THAT LOCATION.
43. PROVIDE UPDATED, TYPED WRITTEN, PANEL SCHEDULES FOR NEW AND EXISTING PANELBOARDS SHOWING CIRCUIT CHANGES MADE DURING THIS PROJECT.
44. ALL DISCONNECTS, J-BOXES AND CONDUITS EXPOSED TO THE OUTSIDE WEATHER SHALL BE NON-CORROSIVE, WEATHER PROOF TYPE.
45. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
46. ALL MAGNETIC DOOR HOLDERS SHALL BE TIED TO THE FIRE ALARM CONTROL PANEL, REFER TO TYPICAL FIRE ALARM RISER DIAGRAM ON FIRE ALARM RISER DIAGRAM FOR MORE INFORMATION. IN THE EVENT OF A FIRE ALARM THE MAGNETIC DOOR HOLDERS SHALL BE DE-ENERGIZED AND RELEASE THE DOORS. PROVIDE ALL CONDUIT, WIRE, JUNCTION BOXES, ETC., FOR A COMPLETE INSTALLATION. REFER TO THE ELECTRICAL AND ARCHITECTURAL FLOOR PLANS FOR THE EXACT LOCATIONS OF THE DOOR HOLDERS.
47. PAINT ALL THE J-BOXES FOR FIRE ALARM SYSTEM WITH RED PAINT. PAINT THE CONDUIT COUPLINGS FOR FIRE ALARM SYSTEM RACEWAY WITH RED PAINT. REFER TO THE SECTION 260553 FOR MORE INFORMATION.
48. ANY CIRCUIT BREAKER FEEDING FIRE ALARM SYSTEMS SHALL CONTAIN RED MARKING AND SHALL BE LABELED "FOR FIRE ALARM SYSTEM".
49. ALL NEW WORK MUST MEET THE CURRENT ADOPTED NATIONAL ELECTRICAL CODE.
50. TEMPORARY ELECTRICAL SERVICE IS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND REMOVED BY THE ELECTRICAL CONTRACTOR.


JACOBY ARCHITECTS

425 South 400 East
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801 363 1434
Project Number: 2014-07


CONSULTANTS

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| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
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LICENSED PROFESSIONAL ENGINEER
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ENAYAT ULLAH NAWABI
STATE OF UTAH


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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building • Salt Lake City, Utah • 84114

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

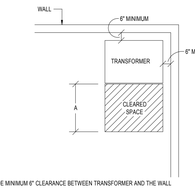
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |

CONSTRUCTION DOCUMENTS

GENERAL NOTES AND SCHEDULES

EE1-10

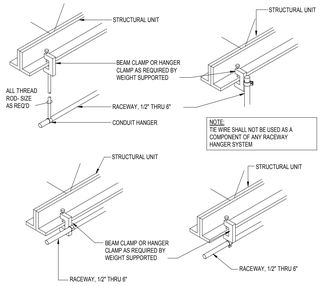



NOTE:
1. PROVIDE MINIMUM 6" CLEARANCE BETWEEN TRANSFORMER AND THE WALL
2. PROVIDE MINIMUM CLEARANCE IN FRONT OF THE TRANSFORMER AS FOLLOWS:

| SYSTEM VOLTAGE | A |
|---|---|
| 480 | 42" |
| 208 | 36" |

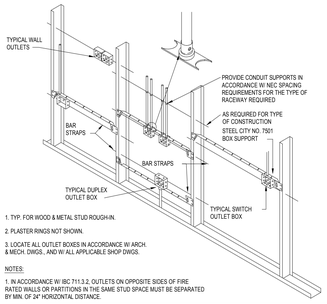
3. IF THERE ARE EXPOSED LIVE PARTS ON BOTH SIDES OF WORKING SPACE, THE MINIMUM CLEAR DISTANCES FOR 151-600V TO GROUND SHALL INCREASE FROM 42" TO 48".

SCALE: N.T.S. — TYPICAL DRY TYPE TRANSFORMER CLEARANCE DETAIL




NOTE:
TE WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM

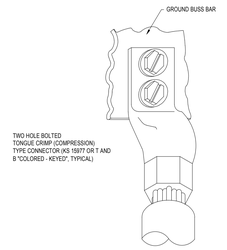
SCALE: N.T.S. — TYPICAL RACEWAY SUPPORT METHODS DETAIL




1. TYP. FOR WOOD & METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE W/ ARCH. & MECH. DWGS., AND W/ ALL APPLICABLE SHOP DWGS.

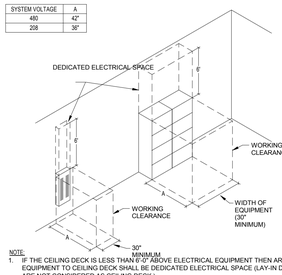
NOTES:
1. IN ACCORDANCE W/ IBC 711.3.2, OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY MIN. OF 24" HORIZONTAL DISTANCE.

SCALE: N.T.S. — TYPICAL ROUGH-IN REQUIREMENTS DETAIL



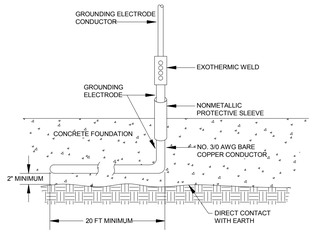

SCALE: N.T.S. — CRIMP TYPE CONNECTORS DETAIL

| SYSTEM VOLTAGE | A |
|---|---|
| 480 | 42" |
| 208 | 36" |

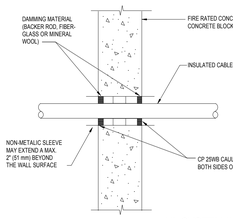



NOTE:
1. IF THE CEILING DECK IS LESS THAN 6'-0" ABOVE ELECTRICAL EQUIPMENT THEN AREA FROM EQUIPMENT TO CEILING DECK SHALL BE DEDICATED ELECTRICAL SPACE (LAY-IN DROP CEILING ARE NOT CONSIDERED AS CEILING DECK.)
2. IF THERE ARE EXPOSED LIVE PARTS ON BOTH SIDES OF WORKING SPACE, THE MINIMUM CLEAR DISTANCES FOR 151-600V TO GROUND SHALL INCREASE FROM 42" TO 48".

SCALE: N.T.S. — TYPICAL PANELBOARD CLEARANCE REQUIREMENTS



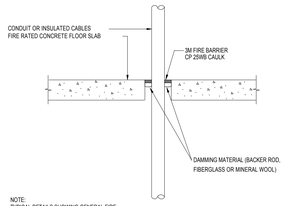

SCALE: N.T.S. — TYPICAL UFER GROUNDING DETAIL




NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

UL SYSTEM #49

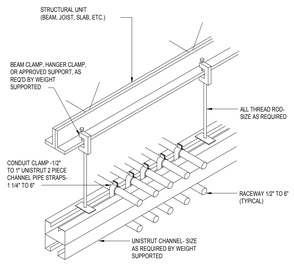
SCALE: N.T.S. — TYPICAL FIRESTOP FOR CABLES/ CONDUIT THROUGH CONCRETE WALLS



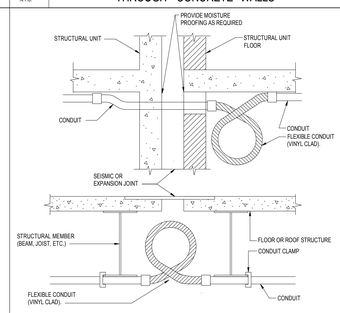

NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

UL SYSTEM #49

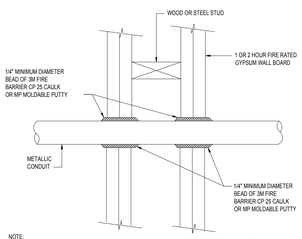
SCALE: N.T.S. — TYPICAL FIRESTOP FOR CABLES/ CONDUIT THROUGH CONCRETE FLOORING




SCALE: N.T.S. — TYPICAL CONDUIT RACK DETAIL



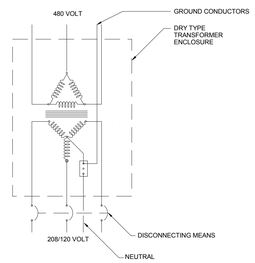

SCALE: N.T.S. — CONDUIT CROSSING SEISMIC OR EXPANSION JOINT DETAIL



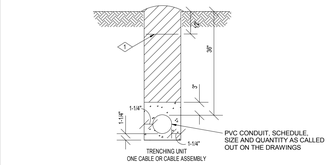

NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

UL SYSTEM #147

SCALE: N.T.S. — FIRESTOP FOR METAL CONDUIT THROUGH GYPSUM WALL BOARD



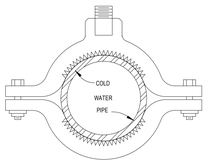

SCALE: N.T.S. — DRY TYPE TRANSFORMER GROUNDING




NOTES:
1. DEPTHS SPECIFIED ARE TO FINISHED GRADE.
2. OVER-EXCAVATE TRENCHES AS NECESSARY TO ALLOW FOR (a) SAND BEDDING OR (b) LOOSE AND SANDY SOIL OR (c) WHERE MORE THAN ONE CABLE WILL BE INSTALLED IN TRENCH AND LAYING OF FIRST CABLE MAY CAUSE TRENCH DAMAGE AND REDUCTION IN DEPTH.
3. BACKFILL IS PART OF ALL TRENCHING UNITS INCLUDING JOINT-USE TRENCHES.

1 PROVIDE DETECTABLE WARNING TAPE FOR ALL UNDERGROUND UTILITIES. TAPE SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE FILM (6") WIDE AND (4 MILS) THICK, MINIMUM, WITH METALLIC CORE PROTECTED FROM CORROSION AND DETECTABLE BY METAL DETECTOR UP TO 30" DEEP.

SCALE: N.T.S. — TYPICAL TRENCH DETAIL




SCALE: N.T.S. — TWO PIECE COPPER PIPE CLAMP DETAIL


JACOBY ARCHITECTS
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801 363 1434
Project Number: 2014-07


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| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrziewski Designs - 801.582.8747 |

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LICENSED PROFESSIONAL ENGINEER No. 185650 ENAYAT ULLAH STATE OF UTAH


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SHEET DATA

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Checked By: Checker

PROJECT

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DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building • Salt Lake City, Utah 84114

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

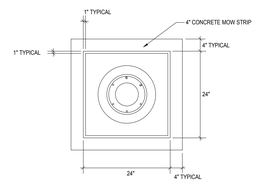
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |

CONSTRUCTION DOCUMENTS

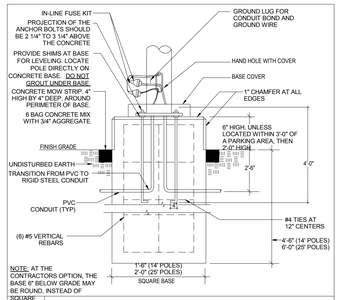
DETAILS

EE1-11




SCALE: N.T.S.

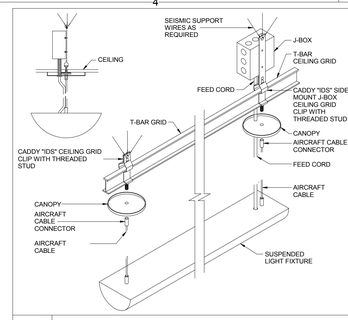
TOP VIEW POLE BASE DETAIL - STANDARD - ALL AREAS




NOTE: AT THE CONTRACTORS OPTION, THE BASE 6" BELOW GRADE MAY BE ROUND, INSTEAD OF SQUARE.

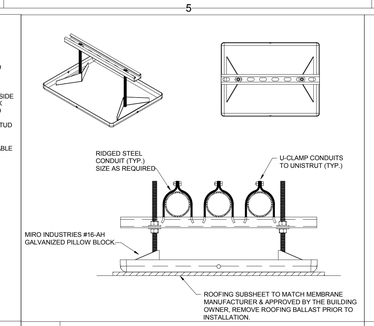
SCALE: N.T.S.

POLE BASE DETAIL - STANDARD - ALL AREAS



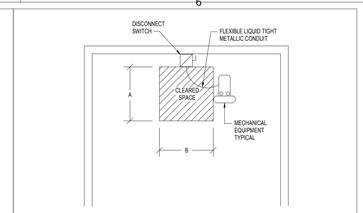

SCALE: N.T.S.

INDIRECT LIGHT FIXTURE MOUNTING DETAIL (GRID MOUNTED)




SCALE: N.T.S.

ROOFTOP CONDUIT MOUNTING DETAIL




NOTE:
1. THE CONTRACTOR MUST COORDINATE EXACT LOCATION OF THE DISCONNECT WITH THE MECHANICAL CONTRACTOR TO ELIMINATE ANY OBSTACLE (PIPE, CONCRETE PAD, ETC.) IN FRONT OF THE DISCONNECT. IF THERE ARE ANY OBSTACLES, PROVIDE UNISTRUT AND INSTALL THE DISCONNECT NEXT TO MECHANICAL EQUIPMENT IN ORDER TO PROVIDE THE REQUIRED CLEARANCE.

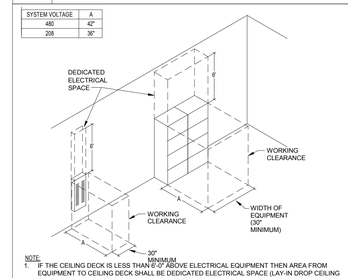
2. PROVIDE MINIMUM CLEARANCE AS FOLLOWS:

| SYSTEM VOLTAGE | A | B |
|---|---|---|
| 480 | 42" | 30" |
| 208 | 36" | 30" |

SCALE: N.T.S.

TYPICAL DISCONNECT CLEARANCE REQUIREMENTS

| SYSTEM VOLTAGE | A |
|---|---|
| 480 | 42" |
| 208 | 36" |

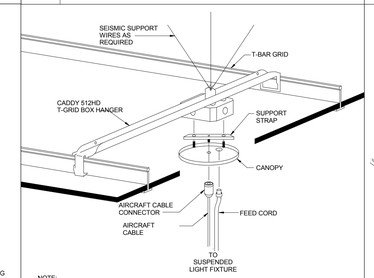



NOTE:
1. IF THE CEILING DECK IS LESS THAN 6'-0" ABOVE ELECTRICAL EQUIPMENT THEN AREA FROM EQUIPMENT TO CEILING DECK SHALL BE DEDICATED ELECTRICAL SPACE (LAY-IN DROP CEILING ARE NOT CONSIDERED AS CEILING DECK.)

2. IF THERE ARE EXPOSED LIVE PARTS ON BOTH SIDES OF WORKING SPACE, THE MINIMUM CLEAR DISTANCES FOR 151-600V TO GROUND SHALL INCREASE FROM 42" TO 48".

SCALE: N.T.S.

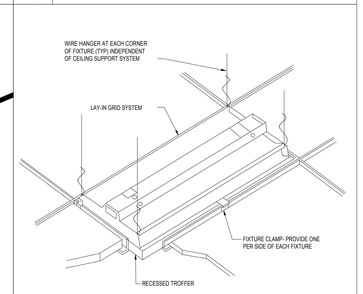
TYPICAL PANELBOARD CLEARANCE REQUIREMENTS




NOTE:
UTILIZE SIMMILAR CONSTRUCTION FOR NON-POWER FEED.

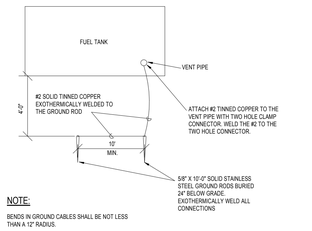
SCALE: N.T.S.

INDIRECT LIGHT FIXTURE MOUNTING DETAIL




SCALE: N.T.S.

TYPICAL RECESSED FIXTURE MOUNTING DETAIL AND A/V SYSTEM SPEAKERS

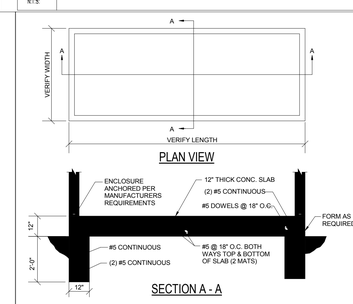



NOTE:

BENDS IN GROUND CABLES SHALL BE NOT LESS THAN A 12" RADIUS.

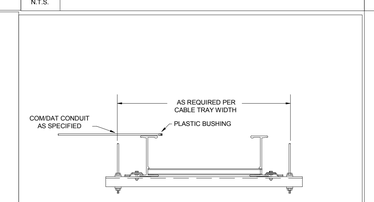
SCALE: N.T.S.

TANK GROUNDING DETAIL




SCALE: N.T.S.

ENGINE GENERATOR ENCLOSURE PAD DETAIL

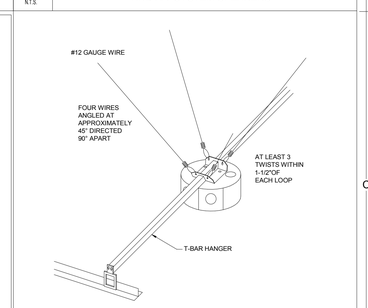



COM/DATA CONDUIT TO BE ON THE TOP

PLASTIC BUSHING FOR ALL CONDUIT

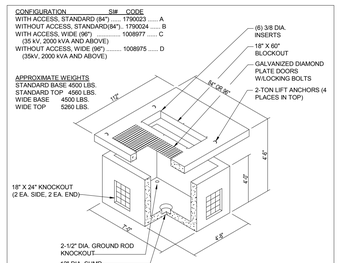
SCALE: N.T.S.

COM/DATA RACEWAY AND CABLE TRAY DETAIL




SCALE: N.T.S.

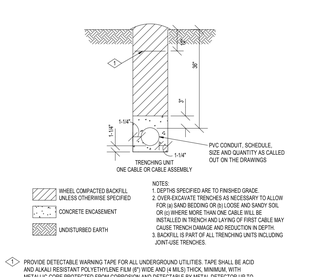
SUSPENDED CEILING J-BOX SUPPORT DETAIL




PADVAULT, THREE-PHASE TRANSFORMER GV 151_

SCALE: N.T.S.

TRANSFORMER PAD VAULT DETAIL

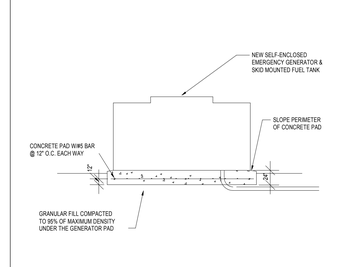



NOTES:
1. DEPTHS SPECIFIED ARE TO FINISHED GRADE.
2. OVER-EXCAVATE TRENCHES AS NECESSARY TO ALLOW FOR (a) SAND BEDDING OR (b) LOOSE AND SANDY SOIL OR (c) WHERE MORE THAN ONE CABLE WILL BE INSTALLED IN TRENCH AND LAYING OF FIRST CABLE MAY CAUSE TRENCH DAMAGE AND REDUCTION IN DEPTH.
3. BACKFILL IS PART OF ALL TRENCHING UNITS INCLUDING JOINT-USE TRENCHES.

PROVIDE DETECTABLE WARNING TAPE FOR ALL UNDERGROUND UTILITIES. TAPE SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE FILM (6") WIDE AND (4 MILS) THICK, MINIMUM, WITH METALLIC CORE PROTECTED FROM CORROSION AND DETECTABLE BY METAL DETECTOR UP TO 30" DEEP.

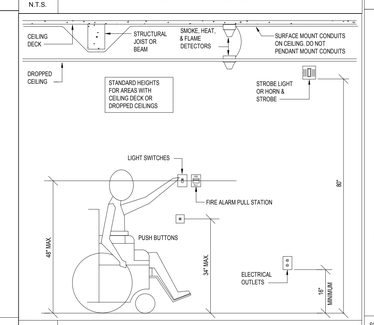
SCALE: N.T.S.

TRENCH DETAIL



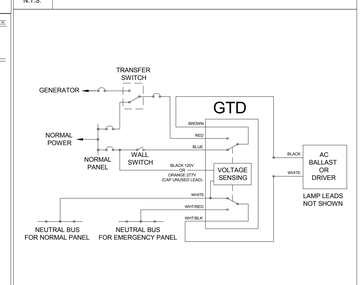

SCALE: N.T.S.

SECTION-GENERATOR PAD




SCALE: N.T.S.

STANDARD HEIGHTS FOR HANDICAPPED ACCESS




SCALE: N.T.S.

EMERGENCY BODINE TRANSFER SWITCH "GTD" WIRING DETAIL


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

| | |
|---|---|
| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrziewski Designs - 801.582.9747 |

STAMP

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SHEET DATA

Drawn By: Author

Checked By: Checker

PROJECT

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

DFCM # 14190230

DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

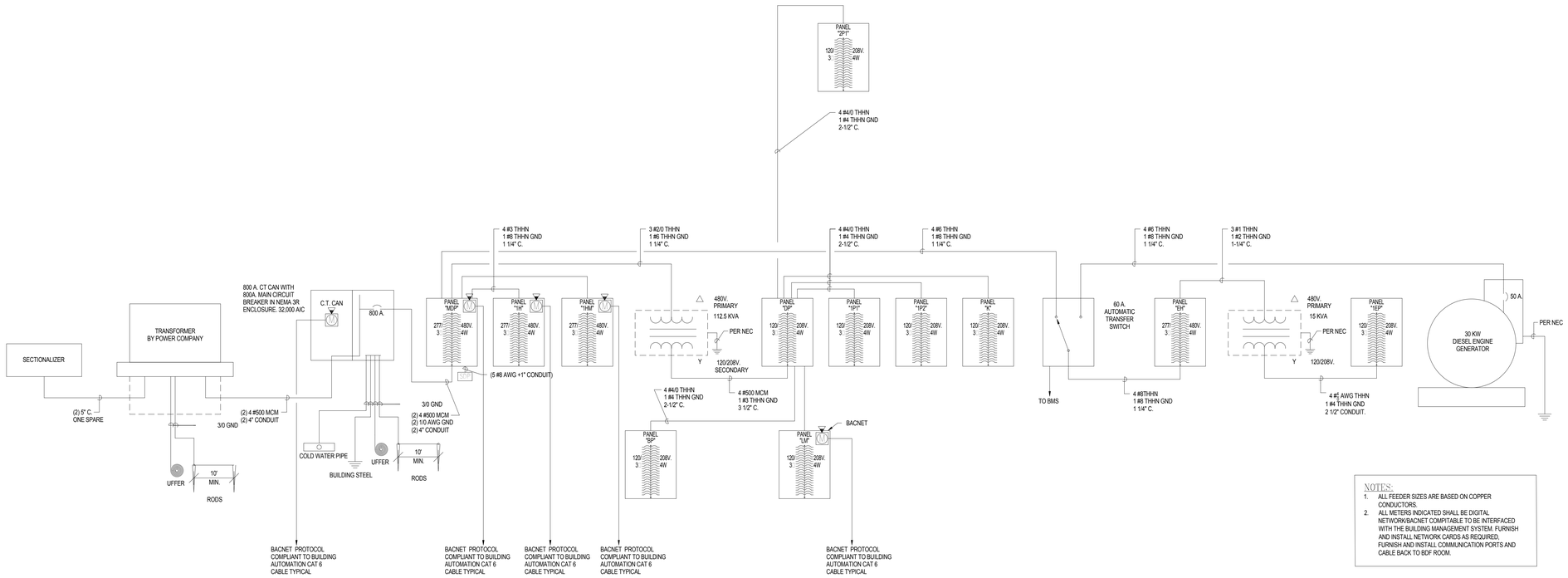
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |

CONSTRUCTION DOCUMENTS

DETAILS

EE1-12




NOTES:

1. ALL FEEDER SIZES ARE BASED ON COPPER CONDUCTORS.
2. ALL METERS INDICATED SHALL BE DIGITAL NETWORK/BACNET COMPITABLE TO BE INTERFACED WITH THE BUILDING MANAGEMENT SYSTEM. FURNISH AND INSTALL NETWORK CARDS AS REQUIRED. FURNISH AND INSTALL COMMUNICATION PORTS AND CABLE BACK TO BDF ROOM.

POWER SINGLE LINE DIAGRAM
SCALE: N.T.S.

## POWER SYSTEM:

Power System

Primary power distribution system

New pad mounted transformers shall be installed to supply power to the entire facility through new distribution systems in each building.

The existing 12470 volt distribution system in the area shall be extended to a new pad mounted transformer that will serve the facility.

The following demands have been assigned to calculate electrical service and distribution sizes:

| LOCATION | LIGHTING | DEVICES | HVAC | OTHERS | TOTAL | AREA | TOTAL |
|---|---|---|---|---|---|---|---|
| | 2 | 1.9 | 5 | 1.3 | 10.2 | 47,691 | 486,448.20 |
| TOTAL | 2 | 1.9 | 5 | 1.3 | | 47,691 | 486,448.20 |

JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

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| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrziewski Designs - 801.582.9747 |

STAMP

LICENSED PROFESSIONAL ENGINEER
No. 185650
ENAYAT ULLAH
STATE OF UTAH

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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Bldg | Salt Lake City, UT | 84114 | 801.538.3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |

CONSTRUCTION DOCUMENTS

POWER SINGLE LINE DIAGRAM

EE1-13

## Branch Panel: K

**Location:** Life Skills / Dining A121
**Supply From:** DP
**Mounting:** Recessed
**Enclosure:** Type 1
**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4
**A.I.C. Rating:**
**Mains Type:**
**Mains Rating:** 225 A
**MCB Rating:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Outlet Life Skills / Dining A121 | 20 A | 1 | 180 | 180 | | | | | 1 | 20 A | Outlet Life Skills / Dining A121 | 2 |
| 3 | Outlet Chairs A121e | 20 A | 1 | | | 180 | 900 | | | 1 | 20 A | Outlet Life Skills / Dining A121 | 4 |
| 5 | Outlet Food Storage A121c | 20 A | 1 | | | | | 180 | 180 | 1 | 20 A | Outlet Food Service A121e | 6 |
| 7 | Outlet Food Service A121a | 20 A | 1 | 360 | 360 | | | | | 1 | 20 A | Outlet Food Service A121a | 8 |
| 9 | Outlet | 20 A | 1 | | | 360 | 180 | | | 1 | 20 A | Outlet Food Service A121a | 10 |
| 11 | Outlet Food Service A121a | 20 A | 1 | | | | | 180 | 180 | 1 | 20 A | Outlet Food Service A121a | 12 |
| 13 | Power Food Service A121a | 20 A | 2 | 600 | 360 | | | | | 1 | 20 A | Outlet Food Service A121a | 14 |
| 15 | -- | -- | -- | | | 600 | 900 | | | 1 | 20 A | Power Food Service A121a | 16 |
| 17 | Power Food Service A121a | 20 A | 1 | | | | | 180 | 180 | 1 | 20 A | Power Food Service-2 A121a-2 | 18 |
| 19 | Power Food Service A121a | 20 A | 1 | 180 | 180 | | | | | 1 | 20 A | Outlet | 20 |
| 21 | Outlet Food Service-2 A121a-2 | 20 A | 1 | | | 540 | 360 | | | 1 | 20 A | Outlet | 22 |
| 23 | Outlet Food Service-2 A121a-2 | 20 A | 1 | | | | | 180 | 360 | 1 | 20 A | Outlet Room A121c, A121d | 24 |
| 25 | Power | 40 A | 2 | 600 | 0 | | | | | 1 | 20 A | Spare | 26 |
| 27 | -- | -- | -- | | | 600 | 0 | | | 1 | 20 A | Spare | 28 |
| 29 | Spare | 20 A | 1 | | | | | 0 | 0 | 1 | 20 A | Spare | 30 |
| 31 | Spare | 20 A | 1 | 0 | 0 | | | | | 1 | 20 A | Spare | 32 |
| 33 | Spare | 20 A | 1 | | | 0 | 0 | | | 1 | 20 A | Spare | 34 |
| 35 | Spare | 20 A | 1 | | | | | 0 | 0 | 1 | 20 A | Spare | 36 |
| 37 | Spare | 20 A | 1 | 0 | 0 | | | | | 1 | 20 A | Spare | 38 |
| 39 | Spare | 20 A | 1 | | | 0 | 0 | | | 1 | 20 A | Spare | 40 |
| 41 | Spare | 20 A | 1 | | | | | 0 | 0 | 1 | 20 A | Spare | 42 |
| | | | **Total Load:** | 3000 VA | | 4620 VA | | 1620 VA | | | | | |
| | | | **Total Amps:** | 27 A | | 40 A | | 14 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Power | 3120 VA | 100.00% | 3120 VA | | |
| Outlet | 6120 VA | 100.00% | 6120 VA | **Total Conn. Load:** | 9240 VA |
| | | | | **Total Est. Demand:** | 9240 VA |
| | | | | **Total Conn.:** | 26 A |
| | | | | **Total Est. Demand:** | 26 A |

**Notes:**

## Branch Panel: MDP

**Location:** Electrical E003
**Supply From:**
**Mounting:**
**Enclosure:**
**Volts:** 480/277 Wye
**Phases:** 3
**Wires:** 4
**A.I.C. Rating:**
**Mains Type:**
**Mains Rating:** 800 A
**MCB Rating:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3,5 | 1H | 225 A | 3 | 22868 | 59857 | | | | | 3 | 400 A | 1HM | 2,4,6 |
| | -- | -- | -- | | | 21512 | 59857 | | | -- | -- | -- | |
| | -- | -- | -- | | | | | 19329 | 59857 | -- | -- | -- | |
| 7,9,11 | 112.5 kVA | 175 A | 3 | 0 | 0 | | | | | 3 | 60 A | ATS | 8,10... |
| | -- | -- | -- | | | 0 | 0 | | | -- | -- | -- | |
| | | -- | -- | | | | | 0 | 0 | -- | -- | -- | |
| 13 | | | | | | | | | | | | | 14 |
| 15 | | | | | | | | | | | | | 16 |
| 17 | | | | | | | | | | | | | 18 |
| 19 | | | | | | | | | | | | | 20 |
| 21 | | | | | | | | | | | | | 22 |
| 23 | | | | | | | | | | | | | 24 |
| 25 | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | 32 |
| 33 | | | | | | | | | | | | | 34 |
| 35 | | | | | | | | | | | | | 36 |
| 37 | | | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | | | 42 |
| | | | **Total Load:** | 82725 VA | | 81370 VA | | 79186 VA | | | | | |
| | | | **Total Amps:** | 300 A | | 295 A | | 286 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 179572 VA | 100.00% | 179572 VA | | |
| Lighting | 32224 VA | 100.00% | 32224 VA | **Total Conn. Load:** | 243636 VA |
| Other | 40 VA | 100.00% | 40 VA | **Total Est. Demand:** | 243636 VA |
| Power | 31800 VA | 100.00% | 31800 VA | **Total Conn.:** | 293 A |
| | | | | **Total Est. Demand:** | 293 A |

**Notes:**

## Branch Panel: 1P2

**Location:** Blind PIP B101
**Supply From:** DP
**Mounting:** Recessed
**Enclosure:** Type 1
**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4
**A.I.C. Rating:**
**Mains Type:**
**Mains Rating:** 225 A
**MCB Rating:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Outlet Lobby A100 | 20 A | 1 | 1440 | 1080 | | | | | 1 | 20 A | Outlet Secretary A141 | 2 |
| 3 | Outlet Director A143 | 20 A | 1 | | | 1080 | 900 | | | 1 | 20 A | Outlet Small Conf. A146 | 4 |
| 5 | Outlet Storage A151 | 20 A | 1 | | | | | 900 | 1260 | 1 | 20 A | Outlet Gymnasium A106 | 6 |
| 7 | Outlet Deaf PIP D101 | 20 A | 1 | 1260 | 900 | | | | | 1 | 20 A | Outlet Deaf PIP D101 | 8 |
| 9 | Outlet Deaf PIP D101 | 20 A | 1 | | | 180 | 900 | | | 1 | 20 A | Outlet Phone A145 | 10 |
| 11 | Outlet Deaf PIP D101 | 20 A | 1 | | | | | 720 | 900 | 1 | 20 A | Outlet Deaf Class. D102 | 12 |
| 13 | Outlet Deaf Class. D102 | 20 A | 1 | 1080 | 720 | | | | | 1 | 20 A | Outlet Deaf Class D101 | 14 |
| 15 | Outlet Deaf Class. D102 | 20 A | 1 | | | 180 | 360 | | | 1 | 20 A | Outlet Therapy D102a | 16 |
| 17 | Outlet Deaf Class. D103 | 20 A | 1 | | | | | 1080 | 720 | 1 | 20 A | Outlet Deaf Class D103 | 18 |
| 19 | Outlet Deaf Class. D103 | 20 A | 1 | 180 | 720 | | | | | 1 | 20 A | Outlet Deaf Class. D102 | 20 |
| 21 | Outlet Deaf Class. D103 | 20 A | 1 | | | 1440 | 900 | | | 1 | 20 A | Outlet Deaf Class. D104 | 22 |
| 23 | Outlet Deaf Class. D104 | 20 A | 1 | | | | | 540 | 180 | 1 | 20 A | Outlet Deaf Class. D104 | 24 |
| 25 | Outlet Deaf Class. D104 | 20 A | 1 | 900 | 1080 | | | | | 1 | 20 A | Outlet Deaf Class D105 | 26 |
| 27 | Outlet Deaf Class D105 | 20 A | 1 | | | 360 | 1260 | | | 1 | 20 A | Outlet Deaf Class D105 | 28 |
| 29 | Outlet Deaf Class D105 | 20 A | 1 | | | | | 180 | 900 | 1 | 20 A | Outlet Deaf Class D105 | 30 |
| 31 | Water Feature | 20 A | 1 | 180 | 180 | | | | | 1 | 20 A | Outlet OUTSIDE STAGE | 32 |
| 33 | Power Hall A110 | 20 A | 1 | | | 1800 | 180 | | | 1 | 20 A | Outlet | 34 |
| 35 | Power Hall A110 | 20 A | 1 | | | | | 1800 | 900 | 1 | 20 A | Outlet | 36 |
| 37 | Outlet | 20 A | 1 | 360 | 360 | | | | | 1 | 20 A | Outlet | 38 |
| 39 | Outlet Deaf Class. D104 | 20 A | 1 | | | 900 | 180 | | | 1 | 20 A | Outlet | 40 |
| 41 | Outlet Space FD-385 | 20 A | 1 | | | | | 1080 | 180 | 1 | 20 A | Outlet | 42 |
| 43 | Outlet Space FD-385 | 20 A | 1 | 360 | 180 | | | | | 1 | 20 A | Outlet | 44 |
| 45 | Washer Family G111 | 20 A | 1 | | | 1800 | 1800 | | | 1 | 20 A | Dryer Family G111 | 46 |
| 47 | Storage and Gymnasium LTG | 20 A | 1 | | | | | 119 | 360 | 1 | 20 A | Power | 48 |
| 49 | Lighting Deaf Class. D102 | 20 A | 1 | 300 | 360 | | | | | 1 | 20 A | Power | 50 |
| 51 | Lighting Sensory A133 | 20 A | 1 | | | 420 | 100 | | | 1 | 20 A | Lighting Food Service-2 A121a-2 | 52 |
| 53 | Lighting | 20 A | 1 | | | | | 400 | 540 | 1 | 20 A | Power Light Room B108 | 54 |
| 55 | Lighting Light Room B108 | 20 A | 1 | 4800 | 720 | | | | | 1 | 20 A | POWER FOR LIGHTS - ROOF | 56 |
| 57 | Outlet Light Room B108 | 20 A | 1 | | | 720 | 300 | | | 1 | 20 A | Lighting - 2nd Level Exterior | 58 |
| 59 | Outlet Light Room B108 | 20 A | 1 | | | | | 540 | 3600 | 1 | 20 A | Lighting Consult A245 | 60 |
| 61 | Outlet Light Room B108 | 20 A | 1 | 540 | 2400 | | | | | 1 | 20 A | Lighting Consult A245 | 62 |
| 63 | Outlet Light Room B108 | 20 A | 1 | | | 540 | 540 | | | 1 | 20 A | Outlet Dressing A153 | 64 |
| 65 | Outlet Light Room B108 | 20 A | 1 | | | | | 540 | 540 | 1 | 20 A | Outlet Dressing A152 | 66 |
| 67 | Outlet Light Room B108 | 20 A | 1 | 540 | 0 | | | | | 1 | 20 A | Spare | 68 |
| 69 | Outlet Light Room B108 | 20 A | 1 | | | 540 | 0 | | | 1 | 20 A | Spare | 70 |
| 71 | Power Light Room B108 | 20 A | 1 | | | | | 540 | 0 | 1 | 20 A | Spare | 72 |
| | | | **Total Load:** | 20640 VA | | 17380 VA | | 18519 VA | | | | | |
| | | | **Total Amps:** | 173 A | | 145 A | | 156 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Lighting | 12140 VA | 100.00% | 12140 VA | | |
| Lighting - Exterior | 300 VA | 125.00% | 375 VA | **Total Conn. Load:** | 56540 VA |
| Other | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 44155 VA |
| Power | 9180 VA | 100.00% | 9180 VA | **Total Conn.:** | 157 A |
| Outlet | 34920 VA | 64.32% | 22460 VA | **Total Est. Demand:** | 123 A |

**Notes:**

## Branch Panel: 2P1

**Location:**
**Supply From:**
**Mounting:** Recessed
**Enclosure:** Type 1
**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4
**A.I.C. Rating:**
**Mains Type:**
**Mains Rating:** 225 A
**MCB Rating:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Outlet Telecom F211 | 20 A | 1 | 360 | 720 | | | | | 1 | 20 A | Outlet Women G211 | 2 |
| 3 | Outlet IT Office A216 | 20 A | 1 | | | 1260 | 1080 | | | 1 | 20 A | Outlet Director A214 | 4 |
| 5 | Outlet Executive A212 | 20 A | 1 | | | | | 1080 | 900 | 1 | 20 A | Outlet Hall A220 | 6 |
| 7 | Outlet Hall A220 | 20 A | 1 | 1620 | 1620 | | | | | 1 | 20 A | Outlet Hall A220 | 8 |
| 9 | Outlet Hall A220 | 20 A | 1 | | | 540 | 1260 | | | 1 | 20 A | Outlet Hall A220 | 10 |
| 11 | Outlet Hall A220 | 20 A | 1 | | | | | 360 | 1080 | 1 | 20 A | Outlet Eye Exam A245c | 12 |
| 13 | Outlet Hall A220 | 20 A | 1 | 540 | 180 | | | | | 1 | 20 A | Outlet Hall A220 | 14 |
| 15 | Outlet Hall A220 | 20 A | 1 | | | 180 | 1080 | | | 1 | 20 A | Outlet Registrar A240 | 16 |
| 17 | Outlet Hall A220 | 20 A | 1 | | | | | 540 | 1620 | 1 | 20 A | Outlet Hall A220 | 18 |
| 19 | Outlet Hall A220 | 20 A | 1 | 1620 | 720 | | | | | 1 | 20 A | Outlet Med. Conf. A242 | 20 |
| 21 | Outlet Eye Exam A245a | 20 A | 1 | | | 1080 | 1260 | | | 1 | 20 A | Outlet Observ A245c | 22 |
| 23 | Outlet Psych. A251 | 20 A | 1 | | | | | 1260 | 720 | 1 | 20 A | Outlet Restrooms | 24 |
| 25 | Outlet Secretary A221 | 20 A | 1 | 1080 | 1620 | | | | | 1 | 20 A | Outlet Super. A224 | 26 |
| 27 | Outlet Assoc. A223 | 20 A | 1 | | | 1260 | 1080 | | | 1 | 20 A | Outlet Board Room A226 | 28 |
| 29 | Outlet Board Room A226 | 20 A | 1 | | | | | 1800 | 1012 | 1 | 20 A | HVAC Power | 30 |
| 31 | HVAC Power | 20 A | 1 | 180 | 1200 | | | | | 1 | 20 A | Lighting | 32 |
| 33 | Lighting | 20 A | 1 | | | 1200 | 720 | | | 1 | 20 A | Outlet Consult A245 | 34 |
| 35 | Lighting | 20 A | 1 | | | | | 1200 | 180 | 1 | 20 A | Outlet Garden A227 | 36 |
| 37 | Lighting Stage AV A252 | 20 A | 1 | 80 | 1000 | | | | | 1 | 20 A | MOTORIZED SHADE ROOM A226 | 38 |
| 39 | Spare | 20 A | 1 | | | 0 | 0 | | | 1 | 20 A | Spare | 40 |
| 41 | Spare | 20 A | 1 | | | | | 0 | 0 | 1 | 20 A | Spare | 42 |
| 43 | Spare | 20 A | 1 | 0 | 0 | | | | | 1 | 20 A | Spare | 44 |
| 45 | Spare | 20 A | 1 | | | 0 | 0 | | | 1 | 20 A | Spare | 46 |
| 47 | Spare | 20 A | 1 | | | | | 0 | 0 | 1 | 20 A | Spare | 48 |
| 49 | Spare | 20 A | 1 | 0 | 0 | | | | | 1 | 20 A | Spare | 50 |
| 51 | Spare | 20 A | 1 | | | 0 | 0 | | | 1 | 20 A | Spare | 52 |
| 53 | Spare | 20 A | 1 | | | | | 0 | 0 | 1 | 20 A | Spare | 54 |
| 55 | Spare | 20 A | 1 | 0 | 0 | | | | | 1 | 20 A | Spare | 56 |
| 57 | Spare | 20 A | 1 | | | 0 | 0 | | | 1 | 20 A | Spare | 58 |
| 59 | Spare | 20 A | 1 | | | | | 0 | 0 | 1 | 20 A | Spare | 60 |
| 61 | Spare | 20 A | 1 | 0 | 0 | | | | | 1 | 20 A | Spare | 62 |
| 63 | Spare | 20 A | 1 | | | 0 | 0 | | | 1 | 20 A | Spare | 64 |
| 65 | Spare | 20 A | 1 | | | | | 0 | 0 | 1 | 20 A | Spare | 66 |
| 67 | Spare | 20 A | 1 | 0 | 0 | | | | | 1 | 20 A | Spare | 68 |
| 69 | Spare | 20 A | 1 | | | 0 | 0 | | | 1 | 20 A | Spare | 70 |
| 71 | Spare | 20 A | 1 | | | | | 0 | 0 | 1 | 20 A | Spare | 72 |
| | | | **Total Load:** | 12540 VA | | 12000 VA | | 11752 VA | | | | | |
| | | | **Total Amps:** | 105 A | | 100 A | | 98 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 1180 VA | 100.00% | 1180 VA | | |
| Lighting | 3680 VA | 100.00% | 3680 VA | **Total Conn. Load:** | 36292 VA |
| Motor | 1012 VA | 100.00% | 1012 VA | **Total Est. Demand:** | 26082 VA |
| Outlet | 30420 VA | 66.44% | 20210 VA | **Total Conn.:** | 101 A |
| | | | | **Total Est. Demand:** | 72 A |

**Notes:**

## Branch Panel: 1H

**Location:**
**Supply From:** MDP
**Mounting:** Recessed
**Enclosure:** Type 1
**Volts:** 480/277 Wye
**Phases:** 3
**Wires:** 4
**A.I.C. Rating:**
**Mains Type:**
**Mains Rating:** 400 A

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Power Elevator E000 | 100 A | 3 | 10600 | 1920 | | | | | 1 | 20 A | Lighting Vestibule A104 | 2 |
| 3 | -- | -- | -- | | | 10600 | 112 | | | 1 | 20 A | Lighting Storage A161b | 4 |
| 5 | -- | -- | -- | | | | | 10600 | 2243 | 1 | 20 A | Lighting | 6 |
| 7 | Lighting Gymnasium A106 | 20 A | 1 | 2288 | 1680 | | | | | 1 | 20 A | Lighting | 8 |
| 9 | Lighting | 20 A | 1 | | | 300 | 2454 | | | 1 | 20 A | Lighting | 10 |
| 11 | Lighting Gymnasium Zone C | 20 A | 1 | | | | | 468 | 2031 | 1 | 20 A | Lighting | 12 |
| 13 | Lighting Family G111 | 20 A | 1 | 860 | 1878 | | | | | 1 | 20 A | Lighting Storage A151 | 14 |
| 15 | Lighting | 20 A | 1 | | | 3479 | 1707 | | | 1 | 20 A | Lighting Hall A220 | 16 |
| 17 | Lighting | 20 A | 1 | | | | | 1452 | 544 | 1 | 20 A | Lighting | 18 |
| 19 | Spare | 20 A | 1 | 0 | 1262 | | | | | 1 | 20 A | Lighting | 20 |
| 21 | | | | | | 0 | | | | 1 | 20 A | Spare | 22 |
| 23 | Lighting Hall D100 | 20 A | 1 | | | | | 2047 | 0 | 1 | 20 A | Spare | 24 |
| 25 | Spare | 20 A | 1 | 0 | 2396 | | | | | 1 | 20 A | Lighting DeafBlind B107 | 26 |
| 27 | Lighting | 20 A | 1 | | | 2054 | 384 | | | 1 | 20 A | Lighting | 28 |
| 29 | | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | 32 |
| 33 | Lighting | 20 A | 1 | | | 512 | | | | | | | 34 |
| 35 | | | | | | | | | | | | | 36 |
| 37 | | | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | | | 42 |
| | | | **Total Load:** | 22884 VA | | 21603 VA | | 19385 VA | | | | | |
| | | | **Total Amps:** | 84 A | | 79 A | | 70 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Lighting | 32224 VA | 100.00% | 32224 VA | | |
| Other | 40 VA | 100.00% | 40 VA | **Total Conn. Load:** | 64064 VA |
| Power | 31800 VA | 100.00% | 31800 VA | **Total Est. Demand:** | 64064 VA |
| | | | | **Total Conn.:** | 77 A |
| | | | | **Total Est. Demand:** | 77 A |

**Notes:**

## Branch Panel: 1P1

**Location:** Blind PIP B101
**Supply From:** DP
**Mounting:** Recessed
**Enclosure:** Type 1
**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4
**A.I.C. Rating:**
**Mains Type:**
**Mains Rating:** 225 A

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Outlet Room G111, A114 | 20 A | 1 | 720 | 360 | | | | | 1 | 20 A | Outlet Nurse Office A114 | 2 |
| 3 | Outlet Director A113 | 20 A | 1 | | | 1080 | 1080 | | | 1 | 20 A | Outlet Blind PIP B102 | 4 |
| 5 | Outlet Blind PIP B102 | 20 A | 1 | | | | | 1260 | 720 | 1 | 20 A | Outlet | 6 |
| 7 | Outlet Blind PIP B102 | 20 A | 1 | 360 | 1260 | | | | | 1 | 20 A | Outlet Mobility B102a | 8 |
| 9 | Outlet Observ. B101 | 20 A | 1 | | | 540 | 1080 | | | 1 | 20 A | Outlet Blind Classroom B103 | 10 |
| 11 | Outlet Blind Classroom B103 | 20 A | 1 | | | | | 900 | 720 | 1 | 20 A | Outlet Blind Classroom B103 | 12 |
| 13 | Outlet Observ. B104 | 20 A | 1 | 360 | 720 | | | | | 1 | 20 A | Outlet Observ. B104 | 14 |
| 15 | Outlet Observ. B106 | 20 A | 1 | | | 1080 | 540 | | | 1 | 20 A | Outlet | 16 |
| 17 | Outlet | 20 A | 1 | | | | | 1080 | 1080 | 1 | 20 A | Outlet | 18 |
| 19 | Outlet Blind Classroom B107 | 20 A | 1 | 360 | 1080 | | | | | 1 | 20 A | Outlet | 20 |
| 21 | Outlet Blind Classroom B108 | 20 A | 1 | | | 1080 | 540 | | | 1 | 20 A | Outlet | 22 |
| 23 | Outlet Hall B100 | 20 A | 1 | | | | | 720 | 180 | 1 | 20 A | Outlet Observ. B109 | 24 |
| 25 | Outlet | 20 A | 1 | 180 | 1080 | | | | | 1 | 20 A | Outlet | 26 |
| 27 | Outlet DeafBlind B111 | 20 A | 1 | | | 1080 | 540 | | | 1 | 20 A | Outlet Attic Stock A001 | 28 |
| 29 | Outlet Observ. B112 | 20 A | 1 | | | | | 1080 | 1260 | 1 | 20 A | Outlet Viewing A120a | 30 |
| 31 | Outlet Gymnasium A106 | 20 A | 1 | 720 | 900 | | | | | 1 | 20 A | Outlet APE Stor. A171 | 32 |
| 33 | Outlet Gymnasium A106 | 20 A | 1 | | | 900 | 900 | | | 1 | 20 A | Outlet P.T A131 | 34 |
| 35 | Outlet Sensory A133 | 20 A | 1 | | | | | 900 | 540 | 1 | 20 A | Outlet Mail Room A101a | 36 |
| 37 | Outlet Space FD-385 | 20 A | 1 | 900 | 540 | | | | | 1 | 20 A | Outlet Work Room A103 | 38 |
| 39 | TG | 20 A | 1 | | | 540 | 180 | | | 1 | 20 A | Power | 40 |
| 41 | Outlet Storage A002 | 20 A | 1 | | | | | 720 | 720 | 1 | 20 A | Outlet Electrical E003 | 42 |
| 43 | Outlet Telecom F002 | 20 A | 1 | 180 | 600 | | | | | 2 | 20 A | Power Telecom F002 | 44 |
| 45 | Power Telecom F002 | 20 A | 2 | | | 600 | 600 | | | -- | -- | -- | 46 |
| 47 | -- | -- | -- | | | | | 600 | 1260 | 1 | 20 A | Outlet Mechanical Boiler E002 | 48 |
| 49 | Outlet Trash/Rec. C002 | 20 A | 1 | 180 | 1080 | | | | | 1 | 20 A | Outlet Hall A000 | 50 |
| 51 | Outlet Elevator E000 | 20 A | 1 | | | 180 | 360 | | | 1 | 20 A | Outlet Hall A000 | 52 |
| 53 | Outlet Hall A000 | 20 A | 1 | | | | | 1260 | 500 | 1 | 20 A | Power Elevator E000 | 54 |
| 55 | Motor Mechanical Boiler E002, B-1 | 20 A | 1 | 1800 | 1800 | | | | | 1 | 20 A | Motor Mechanical Boiler E002, B-2 | 56 |
| 57 | EXHAUST FAN EF-1 | 20 A | 3 | | | 1177 | 1177 | | | 3 | 20 A | EXHAUST FAN EF-2 | 58 |
| 59 | -- | -- | -- | | | | | 1177 | 1177 | -- | -- | -- | 60 |
| 61 | -- | -- | -- | 1177 | 1177 | | | | | -- | -- | -- | 62 |
| 63 | EXHAUST FAN EF-3 | 20 A | 1 | | | 1012 | 1012 | | | 1 | 20 A | EXHAUST FAN EF-4 | 64 |
| 65 | EXHAUST FAN EF-5 | 20 A | 1 | | | | | 1012 | 528 | 1 | 20 A | EXHAUST FAN EF-6 | 66 |
| 67 | EXHAUST FAN EF-7 | 20 A | 1 | 1012 | 1012 | | | | | 1 | 20 A | EXHAUST FAN EF-8 | 68 |
| 69 | EXHAUST FAN EF-9 | 20 A | 1 | | | 1012 | 1012 | | | 1 | 20 A | EXHAUST FAN EF-10 | 70 |
| 71 | Outlet Light Room B108 | 20 A | 1 | | | | | 720 | 180 | 1 | 20 A | Outlet Light Room B108 | 72 |
| | | | **Total Load:** | 19557 VA | | 19301 VA | | 20293 VA | | | | | |
| | | | **Total Amps:** | 163 A | | 161 A | | 169 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Motor | 11212 VA | 100.00% | 11212 VA | | |
| Power | 10140 VA | 100.00% | 10140 VA | **Total Conn. Load:** | 59152 VA |
| Outlet | 37800 VA | 63.23% | 23900 VA | **Total Est. Demand:** | 45252 VA |
| | | | | **Total Conn.:** | 164 A |
| | | | | **Total Est. Demand:** | 126 A |

**Notes:**


JACOBY ARCHITECTS
425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


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STAMP

LICENSED PROFESSIONAL ENGINEER
No. 185650
ENAYAT ULIAH
STATE OF UTAH


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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building | Salt Lake City, UT | 801.538.3018
DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |

CONSTRUCTION DOCUMENTS

PANEL SCHEDULES

EE1-14

## Branch Panel: EP

**Location:** Mechanical Boiler E002 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
**Supply From:** | **Phases:** 3 | **Mains Type:**
**Mounting:** Surface | **Wires:** 4 | **Mains Rating:** 100 A
**Enclosure:** Type 1 | **MCB Rating:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Motor Mechanical Boiler E002 | 20 A | 1 | 1012 | 1012 | | | | | 1 | 20 A | Motor Mechanical Boiler E002 | 2 |
| 3 | Outlet | 20 A | 1 | | | 180 | 360 | | | 1 | 20 A | Power Mechanical Boiler E002 | 4 |
| 5 | EM 120V POWER ELECTRICAL E003 | 20 A | 1 | | | | | 360 | 0 | 1 | 20 A | AUTOMATIC DOORS A104, G152,... | 6 |
| 7 | AUTOMATIC DOORS A103, A121a-1,... | 20 A | 1 | 0 | 0 | | | | | 1 | 20 A | AUTO. DOORS G251, G252, G211,... | 8 |
| 9 | | | | | | | | | | | | | 10 |
| 11 | | | | | | | | | | | | | 12 |
| 13 | | | | | | | | | | | | | 14 |
| 15 | | | | | | | | | | | | | 16 |
| 17 | | | | | | | | | | | | | 18 |
| 19 | | | | | | | | | | | | | 20 |
| 21 | | | | | | | | | | | | | 22 |
| 23 | | | | | | | | | | | | | 24 |
| 25 | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | 32 |
| 33 | | | | | | | | | | | | | 34 |
| 35 | | | | | | | | | | | | | 36 |
| 37 | | | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | | | 42 |
| | | **Total Load:** | | 2024 VA | | 540 VA | | 360 VA | | | | | |
| | | **Total Amps:** | | 17 A | | 5 A | | 3 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 0 VA | 0.00% | 0 VA | | |
| Motor | 2024 VA | 100.00% | 2024 VA | **Total Conn. Load:** | 2924 VA |
| Other | 360 VA | 100.00% | 360 VA | **Total Est. Demand:** | 2924 VA |
| Power | 360 VA | 100.00% | 360 VA | **Total Conn.:** | 8 A |
| Outlet | 180 VA | 100.00% | 180 VA | **Total Est. Demand:** | 8 A |

**Notes:**

## Branch Panel: 1HM

**Location:** Electrical E003 | **Volts:** 480/277 Wye | **A.I.C. Rating:**
**Supply From:** MDP | **Phases:** 3 | **Mains Type:**
**Mounting:** Recessed | **Wires:** 4 | **Mains Rating:** 400 A
**Enclosure:** Type 1 | **MCB Rating:** 400 A

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3,5 | AH-1, RF-1 | 125 A | 3 | 26603 | 14410 | | | | | 3 | 90 A | AH-1, RF-1 | 2,4,6 |
| | -- | -- | -- | | | 26603 | 14410 | | | -- | -- | -- | |
| | -- | -- | -- | | | | | 26603 | 14410 | -- | -- | -- | |
| 7,9,11 | AH-2, SF-2 | 60 A | 3 | 9422 | 9422 | | | | | 3 | 40 A | AH-2, RF-2 | 8,10... |
| | -- | -- | -- | | | 9422 | 9422 | | | -- | -- | -- | |
| | -- | -- | -- | | | | | 9422 | 9422 | -- | -- | -- | |
| 13 | | | | | | | | | | | | | 14 |
| 15 | | | | | | | | | | | | | 16 |
| 17 | | | | | | | | | | | | | 18 |
| | | **Total Load:** | | 59857 VA | | 59857 VA | | 59857 VA | | | | | |
| | | **Total Amps:** | | 216 A | | 216 A | | 216 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 179572 VA | 100.00% | 179572 VA | | |
| | | | | **Total Conn. Load:** | 179572 VA |
| | | | | **Total Est. Demand:** | 179572 VA |
| | | | | **Total Conn.:** | 216 A |
| | | | | **Total Est. Demand:** | 216 A |

**Notes:**

## Branch Panel: BP

**Location:** Electrical E003 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
**Supply From:** DP | **Phases:** 3 | **Mains Type:**
**Mounting:** Surface | **Wires:** 4 | **Mains Rating:** 225 A
**Enclosure:** Type 1 | **MCB Rating:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Motor Mechanical Boiler E002 | 20 A | 1 | 1012 | 1012 | | | | | 1 | 20 A | Motor Mechanical Boiler E002 | 2 |
| 3 | BASKETBALL CONTROL SYSTEM | 20 A | 1 | | | 1000 | 1000 | | | 1 | 20 A | HVAC | 4 |
| 5 | BASKETBALL CONTROL SYSTEM | 20 A | 1 | | | | | 1000 | 1000 | 1 | 20 A | HVAC | 6 |
| 7 | BASKETBALL CONTROL SYSTEM | 20 A | 1 | 1000 | 680 | | | | | 1 | 20 A | Power | 8 |
| 9 | BASKETBALL CONTROL SYSTEM | 20 A | 1 | | | 1000 | 500 | | | 1 | 20 A | HVAC | 10 |
| 11 | HVAC | 20 A | 1 | | | | | 500 | 360 | 1 | 20 A | Outlet Telecom F002 | 12 |
| 13 | Outlet Telecom F002 | 20 A | 1 | 360 | 540 | | | | | 1 | 20 A | Outlet Mechanical Boiler E002 | 14 |
| 15 | PROJECTION SCREEN | 20 A | 1 | | | 180 | 500 | | | 1 | 20 A | EV PROJECTOR SCREEN | 16 |
| 17 | | | | | | | | | | | | | 18 |
| 19 | | | | | | | | | | | | | 20 |
| 21 | | | | | | | | | | | | | 22 |
| 23 | | | | | | | | | | | | | 24 |
| 25 | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | 32 |
| 33 | | | | | | | | | | | | | 34 |
| 35 | | | | | | | | | | | | | 36 |
| 37 | | | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | | | 42 |
| | | **Total Load:** | | 4604 VA | | 4180 VA | | 2860 VA | | | | | |
| | | **Total Amps:** | | 40 A | | 37 A | | 24 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 4500 VA | 100.00% | 4500 VA | | |
| Motor | 2024 VA | 100.00% | 2024 VA | **Total Conn. Load:** | 11644 VA |
| Power | 3680 VA | 100.00% | 3680 VA | **Total Est. Demand:** | 11644 VA |
| Outlet | 1440 VA | 100.00% | 1440 VA | **Total Conn.:** | 32 A |
| | | | | **Total Est. Demand:** | 32 A |

**Notes:**

## Branch Panel: DP

**Location:** Electrical E003 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
**Supply From:** | **Phases:** 3 | **Mains Type:**
**Mounting:** Surface | **Wires:** 4 | **Mains Rating:** 400 A
**Enclosure:** Type 1 | **MCB Rating:** 400 A

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BP | 225 A | 3 | 4604 | 19557 | | | | | 3 | 225 A | 1P1 | 2 |
| 3 | -- | -- | -- | | | 4180 | 19301 | | | -- | -- | -- | 4 |
| 5 | -- | -- | -- | | | | | 2860 | 20293 | -- | -- | -- | 6 |
| 7 | 1P2 | 225 A | 3 | 20625 | 3000 | | | | | 3 | 225 A | K | 8 |
| 9 | -- | -- | -- | | | 17341 | 4620 | | | -- | -- | -- | 10 |
| 11 | -- | -- | -- | | | | | 18499 | 1620 | -- | -- | -- | 12 |
| 13 | LM | 225 A | 3 | 0 | 600 | | | | | 2 | 30 A | Power Telecom F002 | 14 |
| 15 | -- | -- | -- | | | 0 | 600 | | | -- | -- | -- | 16 |
| 17 | -- | -- | -- | | | | | 0 | 600 | 2 | 30 A | Power Telecom F002 | 18 |
| 19 | Power Telecom F002 | 20 A | 2 | 600 | 600 | | | | | -- | -- | -- | 20 |
| 21 | -- | -- | -- | | | 600 | 600 | | | 2 | 30 A | Power Telecom F002 | 22 |
| 23 | | | | | | | | | 600 | -- | -- | -- | 24 |
| 25 | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | 32 |
| 33 | | | | | | | | | | | | | 34 |
| 35 | | | | | | | | | | | | | 36 |
| 37 | | | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | | | 42 |
| | | **Total Load:** | | 49587 VA | | 47242 VA | | 44473 VA | | | | | |
| | | **Total Amps:** | | 417 A | | 397 A | | 371 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 4500 VA | 100.00% | 4500 VA | | |
| Lighting | 12140 VA | 100.00% | 12140 VA | **Total Conn. Load:** | 141376 VA |
| Lighting - Exterior | 300 VA | 125.00% | 375 VA | **Total Est. Demand:** | 106311 VA |
| Motor | 13236 VA | 100.00% | 13236 VA | **Total Conn.:** | 392 A |
| Other | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 295 A |
| Power | 30920 VA | 100.00% | 30920 VA | | |
| Outlet | 80280 VA | 56.23% | 45140 VA | | |

**Notes:**

## Branch Panel: EH

**Location:** Elect F211 | **Volts:** 480/277 Wye | **A.I.C. Rating:**
**Supply From:** | **Phases:** 3 | **Mains Type:**
**Mounting:** Surface | **Wires:** 4 | **Mains Rating:** 100 A
**Enclosure:** Type 1 | **MCB Rating:** 100 A

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1EP, THRU XFMR | 30 A | 3 | 1677 | 720 | | | | | 3 | 20 A | PUMP P-2 | 2 |
| 3 | -- | -- | -- | | | 1478 | 720 | | | -- | -- | -- | 4 |
| 5 | -- | -- | -- | | | | | 1137 | 720 | -- | -- | -- | 6 |
| 7 | PUMP P-3 | 20 A | 3 | 942 | 942 | | | | | 3 | 20 A | PUMP P-4 | 8 |
| 9 | -- | -- | -- | | | 942 | 942 | | | -- | -- | -- | 10 |
| 11 | -- | -- | -- | | | | | 942 | 942 | -- | -- | -- | 12 |
| 13 | PUMP P-1 | 20 A | 3 | 720 | 0 | | | | | 3 | 30 A | 15 kVA | 14 |
| 15 | -- | -- | -- | | | 720 | 0 | | | -- | -- | -- | 16 |
| 17 | -- | -- | -- | | | | | 720 | 0 | -- | -- | -- | 18 |
| 19 | EM LTNG BASEMENT | 20 A | 1 | 448 | 837 | | | | | 1 | 20 A | Lighting Gymnasium A106 | 20 |
| 21 | Lighting | 20 A | 1 | | | 1512 | 128 | | | 1 | 20 A | EM LTNG GYM AREA LEVEL 1 | 22 |
| 23 | EM LTNG SOFFIT SOUTH | 20 A | 1 | | | | | 736 | 774 | 1 | 20 A | EM LTNG CENTRAL AREA LEVEL 1 | 24 |
| 25 | EM LTNG SOFFIT NORTH | 20 A | 1 | 672 | 14410 | | | | | 3 | 30 A | Power Mechanical Boiler E002 | 26 |
| 27 | EM LTNG EXTERIOR | 20 A | 1 | | | 750 | 14410 | | | -- | -- | -- | 28 |
| 29 | EM LTNG SOUTH STAIRS | 20 A | 1 | | | | | 384 | 14410 | -- | -- | -- | 30 |
| 31 | EM LTNG NORTH STAIRS | 20 A | 1 | 384 | 932 | | | | | 1 | 20 A | EM LTNG CLASSROOMS SOUTH... | 32 |
| 33 | Power Mechanical Boiler E002 | 20 A | 3 | | | 14410 | 758 | | | 1 | 20 A | EM LTNG CLASSROOMS NORTH... | 34 |
| 35 | -- | -- | -- | | | | | 14410 | 770 | 1 | 20 A | EM LTNG GYM SECOND LEVEL | 36 |
| 37 | -- | -- | -- | 14410 | 1684 | | | | | 1 | 20 A | EM LTNG SECOND LEVEL | 38 |
| 39 | Exterior Lighting Pole mounted | 20 A | 1 | | | 3681 | 4090 | | | 1 | 20 A | Exterior Lighting Pole mounted | 40 |
| 41 | Exterior Lighting - Ballards | 20 A | 1 | | | | | 1350 | | | | | 42 |
| | | **Total Load:** | | 38779 VA | | 44541 VA | | 37296 VA | | | | | |
| | | **Total Amps:** | | 141 A | | 162 A | | 135 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 86460 VA | 100.00% | 86460 VA | | |
| Lighting | 20088 VA | 100.00% | 20088 VA | **Total Conn. Load:** | 120662 VA |
| Power | 9974 VA | 100.00% | 9974 VA | **Total Est. Demand:** | 120662 VA |
| Outlet | 4140 VA | 100.00% | 4140 VA | **Total Conn.:** | 145 A |
| | | | | **Total Est. Demand:** | 145 A |

**Notes:**

## Branch Panel: 1EP

**Location:** | **Volts:** 120/208 Wye | **A.I.C. Rating:**
**Supply From:** 15 kVA, 277 V/480 V, Thre... | **Phases:** 3 | **Mains Type:**
**Mounting:** Surface | **Wires:** 4 | **Mains Rating:** 100 A
**Enclosure:** Type 1 | **MCB Rating:** 100 A

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Outlet Blind PIP B102 | 20 A | 1 | 180 | 180 | | | | | 1 | 20 A | Outlet Blind Classroom B103 | 2 |
| 3 | Outlet Blind Classroom B107 | 20 A | 1 | | | 180 | 180 | | | 1 | 20 A | Outlet Blind Classroom B108 | 4 |
| 5 | Outlet DeafBlind B111 | 20 A | 1 | | | | | 180 | 180 | 1 | 20 A | Outlet Deaf PIP D101 | 6 |
| 7 | Outlet Deaf Class D102 | 20 A | 1 | 360 | 180 | | | | | 1 | 20 A | Outlet Deaf Class D103 | 8 |
| 9 | Outlet Deaf Class D104 | 20 A | 1 | | | 180 | 360 | | | 1 | 20 A | Outlet Eye Exam-1 A245c-1 | 10 |
| 11 | Outlet O.T. A134 | 20 A | 1 | | | | | 180 | 180 | 1 | 20 A | Outlet Sensory A133 | 12 |
| 13 | Outlet Mobility A132 | 20 A | 1 | 180 | 360 | | | | | 1 | 20 A | Outlet P.T A131 | 14 |
| 15 | Outlet Deaf Class. D104 | 20 A | 1 | | | 180 | 180 | | | 1 | 20 A | Outlet Consult-1 A245-1 | 16 |
| 17 | Outlet Deaf Class-1 D105-1 | 20 A | 1 | | | | | 180 | 180 | 1 | 20 A | TG | 18 |
| 19 | Outlet | 20 A | 1 | 180 | 20 | | | | | 1 | 20 A | Strip Light North Stairs | 20 |
| 21 | Outlet DeafBlind B107 | 20 A | 1 | | | 180 | 20 | | | 1 | 20 A | Strip Light North Stairs | 22 |
| 23 | Strip Light South Stairs | 20 A | 1 | | | | | 20 | 20 | 1 | 20 A | Strip Light North Stairs | 24 |
| 25 | Strip Light South Stairs | 20 A | 1 | 20 | 20 | | | | | 1 | 20 A | Strip Light North Stairs | 26 |
| 27 | Strip Light South Stairs | 20 A | 1 | | | 20 | 0 | | | 1 | 20 A | Spare | 28 |
| 29 | Strip Light South Stairs | 20 A | 1 | | | | | 20 | 0 | 1 | 20 A | Spare | 30 |
| 31 | Spare | 20 A | 1 | 0 | 0 | | | | | 1 | 20 A | Spare | 32 |
| 33 | Spare | 20 A | 1 | | | 0 | 0 | | | 1 | 20 A | Spare | 34 |
| 35 | Spare | 20 A | 1 | | | | | 0 | 0 | 1 | 20 A | Spare | 36 |
| 37 | Spare | 20 A | 1 | 0 | 0 | | | | | 1 | 20 A | Spare | 38 |
| 39 | Spare | 20 A | 1 | | | 0 | 0 | | | 1 | 20 A | Spare | 40 |
| 41 | Spare | 20 A | 1 | | | | | 0 | 0 | 1 | 20 A | Spare | 42 |
| | | **Total Load:** | | 1680 VA | | 1480 VA | | 1140 VA | | | | | |
| | | **Total Amps:** | | 14 A | | 13 A | | 10 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Lighting | 160 VA | 100.00% | 160 VA | | |
| Outlet | 4140 VA | 100.00% | 4140 VA | **Total Conn. Load:** | 4300 VA |
| | | | | **Total Est. Demand:** | 4300 VA |
| | | | | **Total Conn.:** | 12 A |
| | | | | **Total Est. Demand:** | 12 A |

**Notes:**


JACOBY ARCHITECTS

425 South 400 East
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PROJECT

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DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building Salt Lake City, Utah 84114 801.538.3018

DFCM # 14190230
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| 2014 10 09 | Schematic Design |
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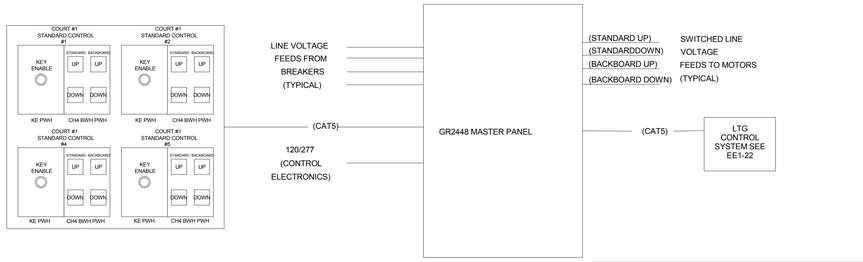
CONSTRUCTION DOCUMENTS

PANEL SCHEDULES

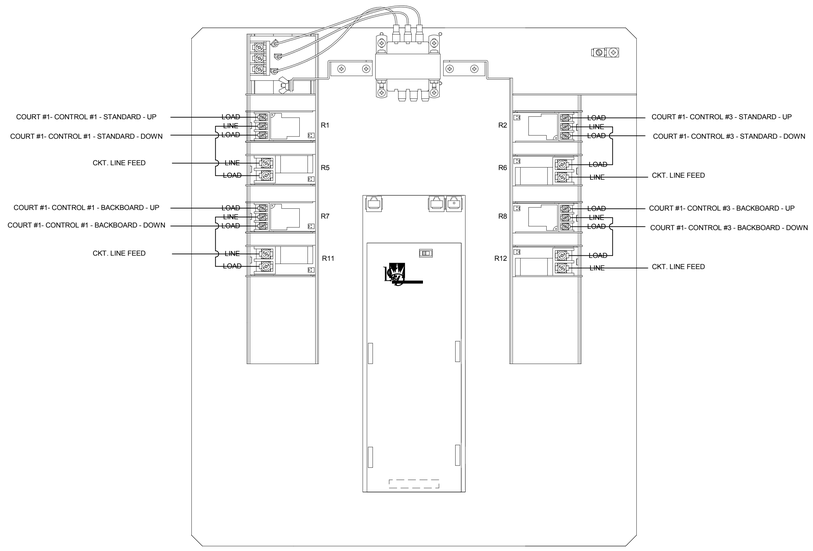
EE1-15




MAIN BASKETBALL COURTS CONTROLLER

WIRING NOTES:

ALL SWITCHES & PANELS INTERCONNECT IN A DAISY CHAIN TOPOLGY.
- ALL SWITCHES ARE GANGABLE IN STANDARD DECORA MULTI-GANG FACEPLATES
- ALL LOW VOLTAGE WIRING IS CATEGORY 5 UTP.
- CAT5 SHALL BE TERMINATED WITH NON-BOOTED RJ45 CONNECTORS.
- RJ45 CONNECTORS SHALL UTILIZE "B" STANDARD FOR CONDUCTOR ORDER
- PROVIDE COMPUTER INTERFACE FOR BASKETBALL CONTROL SYSTEM IN THE RECEPTIONIST AREA IN HALLWAY 1300, TO OPERATE THESE SYSTEM THRU COMPUTER INTERFACE, ALL DEVICES TO BE IDENTIFIED ON A GRAPHICAL FLOOR PLAN.




# LCP-1

BASKETBALL RAISING AND LOWERING SYSTEM

JACOBY ARCHITECTS

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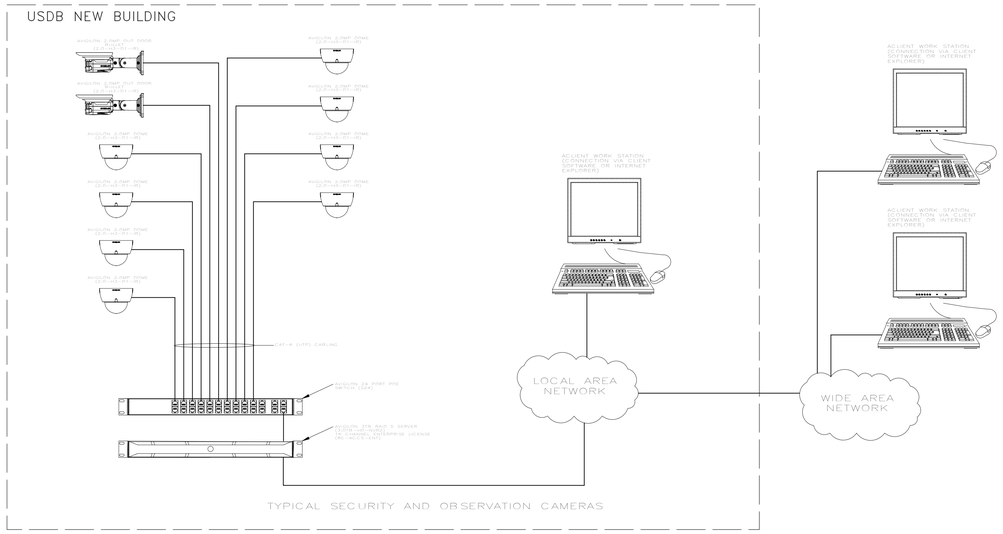
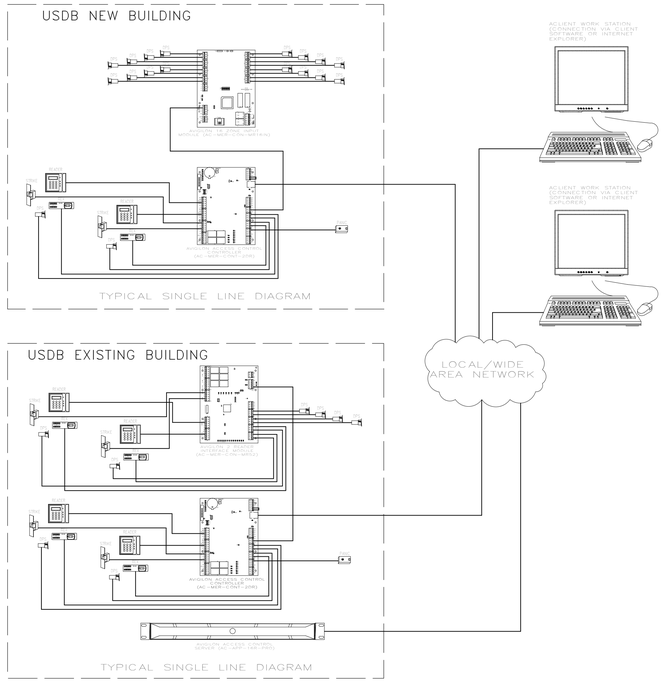
BASKETBALL
DETAILS AND RISER
DIAGRAM

EE1-16





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# SECURITY SYSTEM RISER DIAGRAM

# EE1-17

## FIRE ALARM SPECIAL NOTES:

1. DO NOT EXCEED SIX (6) HORNS AND STROBES PER SINGLE CIRCUIT.
2. DO NOT EXCEED 500 FEET TOTAL WIRE LENGTH WITH #14.
3. DO NOT EXCEED 1000 FEET TOTAL WIRE LENGTH WITH #12.
4. FURNISH AND INSTALL BOOSTER POWER IN THE LOCATIONS WHERE TAMPER AND FLOW SWITCHES ARE LOCATED 20 FEET OR MORE FROM ADDRESSABLE TRANSMITTER.
5. ALL STROBES SHALL BE HIGH INTENSITY TO MEET ADA CODE REQUIREMENTS.
6. ALL FIRE ALARM J-BOXES SHALL BE PAINTED RED.
7. ALL FIRE ALARM CONDUIT SHALL HAVE THE COUPLINGS AND CONNECTORS PAINTED RED.
8. ALL NEW AIR HANDLING SYSTEMS IN THE ENTIRE BUILDING SHALL BE TIED TO NEW FIRE ALARM CONTROL PANEL FOR FAN SHUT DOWN DURING FIRE ALARM IN THE BUILDING. PROVIDE ADDRESSABLE RELAYS, MODULES, ETC. FOR A COMPLETE INSTALLATION.
9. ALL FIRE ALARM SYSTEM CONDUCTORS SHALL BE COLOR CODED
10. DOOR HOLDER SHALL BE INSTALLED AT THE MOST RIGHT END OF THE DOOR.
11. FIRE ALARM SMOKE DETECTORS TO BE MOUNTED IN THE CENTER OF CEILING TILES.
12. NO SMOKE DETECTORS SHALL BE INSTALLED WITHIN 3 FEET OF AN AIR CONDITIONING OUTLET.
13. PROVIDE ONE ADDITIONAL 120 VOLT, 20 AMP. INDIVIDUAL CIRCUIT TO EACH S.D.C.P. IN EACH ELECTRICAL ROOM IN EACH WING ON EACH FLOOR. REFER TO THE MECHANICAL DRAWINGS FOR EXACT LOCATION AND NUMBER OF UNITS.
14. SMOKE DAMPER CONTROL PANELS SHALL BE TIED TO A NORMALLY CLOSED RELAY CONTACT IN THE F.A.C.P. TO OPERATE 120 VOLT, AC RELAYS IN THE S.D.C.P.
15. TERMINATION TO DEVICES AND CONTROL PANELS SHALL BE MADE USING SPACE FORK TERMINALS.
16. STORE FIRE ALARM EQUIPMENT IN A CLEAN, DRY PLACE AND PROTECT FROM PHYSICAL DAMAGE.

PROVIDE:

a-80% OF SMOKE DETECTORS PER CIRCUIT

b-80% OF ALL OTHER ADDRESSABLE DEVICES PER CIRCUIT

c-64% OF ALL NOTIFICATION DEVICES

d-ALL DGP'S SHALL BE INSTALLED IN THE ELECTRICAL ROOMS

e-ALL RELAYS FOR FIRE SMOKE DAMPER, ETC., SHALL CONSIST OF TWO RELAYS. ONE SLAVE AND ONE 20 AMPS RATED TO RUN REQUIRED TO REQUIRED DEVICES.

f-PROVIDE 120 VOLTS EMERGENCY POWER TO ALL PANELS PER MANUFACTURER REQUIREMENT.

g-THE RISER IS FOR INFORMATION PURPOSES ONLY. FIRE ALARM SUPPLIER TO PROVIDE ACCURATE DRAWING FOR APPROVAL.

1- AUX. 24V. POWER TO FLOOD PROBE

2- 120V. HORN/STROBE FOR WATER FLOW

3- ELEVATOR FIRE CURTAIN, PROVIDE MODULE

4- IN EACH SUITE RUN #16 AW TANDUM WIRE BETWEEN ALL DEVICES PER MANUFACTURERS RECOMMENDATION.

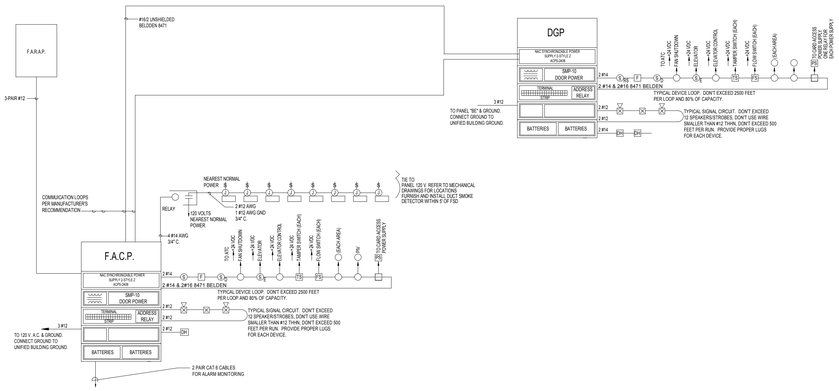
5- ACCESSIBLE SUITES

a - PROVIDE SYNC MODULE

b - PROVIDE MODULES FOR STROBE ACTIVATION

## NOTE:

1. IN AND OUT CABLES TO THE DEVICES MUST RUN IN A SEPARATE CONDUIT. 3/4" CONDUIT SHALL BE THE MINIMUM SIZE.
EXCEPTION:
A SINGLE 1/2" STEEL FLEXIBLE CONUIT LESS THAN 6' LONG TO A SINGLE SMOKE DETECTOR, OR OTHER SINGLE ADDRESSABLE INITIATING DEVICE. THE ADDRESSABLE LOOP MAY FEED AND RETURN IN THE SAME 1/2" FLEXIBLE CONDUIT.
2. ALL FIRE ALARM DEVICES, CONTROL PANELS, REMOTE ANNUNCIATOR PANEL AND DATA GATHERING PANELS SHALL BE FURNISHED BY CONTRACTOR AND INSTALLED BY CONTRACTOR.
3. ALL PROGRAMMING SHALL BE DONE BY CONTRACTOR.
4. ALL LABELING TO BE DONE BY CONTRACTOR.
5. ALL WIRING TO BE DONE BY CONTRACTOR.
6. PROVIDE A MONITOR MODULE FOR EACH POWER SUPPLY.
7. FIRE ALARM SYSTEMS ARE DESIGNED BASED ON NOTIFIER SYSTEMS. CONTRACTOR SHALL HAVE PROVISIONS FOR ANY ADDITIONAL REQUIREMENTS BASED ON FCI SYSTEM.




| SCALE N.T.S. | TYPICAL FIRE ALARM RISER DIAGRAM |
|---|---|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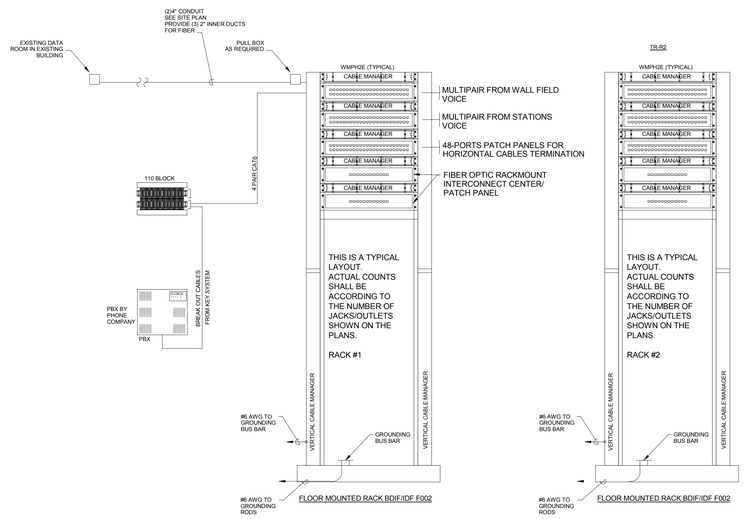
FIRE ALARM RISER DIAGRAM

EE1-18




## SPECIAL NOTES:

1. FOR EACH SETS OF 4 CABLES FROM EACH VOICE AND DATA OUTLET TO PATCH PANELS ONE CABLE SHALL BE TERMINATED TO THE PATCH PANEL FOR VOICE AND THE OTHER THREE SHALL BE TERMINATED TO THE DATA. PROVIDE MINIMUM 12 PORTS SPARE IN EACH PATCH PANEL.
2. RUN (2) 4" CONDUITS FROM BDF/IDF ROOM UNDER THE CONCRETE SLAB TO EXISTING BUILDING DATA ROOM.
3. FURNISH AND INSTALL 12" LADDER RUNWAY @ 7" AFF. WALL TO WALL IN BDF/IDF AND IN EACH IDF ROOMS. PROVIDE TRAY TRANSITION FROM ABOVE CEILING HEIGHT IN CORRIDOR DOWN LADDER RUNWAY. BRACE PER SEISMIC ZONE III.
4. FIBER OPTIC PATCH PANELS ON THE WALL AND IN THE RACK, THEY WILL BE FURNISHED AND INSTALLED BY OWNER.
5. ALL FIBER OPTIC CABLES INSIDE AND OUTSIDE THE BUILDING WILL BE FURNISHED AND INSTALLED BY OWNER. CONTRACTOR SHALL FURNISH AND INSTALL FIBER PATCH PANELS AS SHOWN.

## NOTES:

1. PROVIDE HORIZONTAL AND 6" VERTICAL CABLE MANAGEMENT ON BOTH SIDES OF THE FULL HEIGHT RACKS.
2. PROVIDE FRONTSIDE HORIZONTAL CABLE MANAGEMENT BETWEEN EACH OF THE SWITCHES, AND ROUTERS IN ALL RACKS.
3. PROVIDE TWO ROWS OF HORIZONTAL 120 V., 20 A. RACK MOUNTED PLUG MOLDS AT THE BOTTOM OF THE RACKS PER OWNER REQUIREMENT. MINIMUM 6 DUPLEX PER ROW.
4. FLOOR MOUNTED RACK SHALL BE 19" WIDE, 84" HIGH. SEISMICALLY BRACE FOR ZONES 3. FURNISH AND INSTALL ALL ACCESSORIES INCLUDING WIRE MANAGEMENTS SYSTEM AS REQUIRED FOR A COMPLETE INSTALLATION.
5. ALL PORTS IN PATCH PANEL TO BE SUITABLE FOR CAT6 AND FIBER OPTIC AS SHOWN.
6. ALL VOICE AND DATA JACKS TO BE SUITABLE FOR CAT6.
7. FURNISH AND INSTALL CAT6 48 ROUTE PATCH PANELS AS REQUIRED PLUS 5% EXTRA JACKS.
8. USE INNER DUCTS FOR ALL FIBER INSTALLATIONS. ALL INNER DUCTS MUST BE RUN IN CONDUITS AS CALLED OUT.

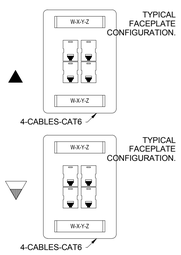
## CAT6 COLOR CODE:

VOICE - YELLOW

DATA - BLUE

## HORIZONTAL CABLING NOTES:

a. All cables shall be Cat-6 plenum rated.
b. Cables shall have the proper label written onto the cable behind the faceplate and a mechanically generated label inserted inside the plexi-designator strip; refer to the label diagrams that follow this paragraph.
c. Cables shall be routed in a neat and professional manner.
d. Cables shall be supported above the suspended ceiling and meet NEC and local codes for installation methods.
e. Jack numbers shall be sequential and read top to bottom - left to right.
f. Provide face plates per work area location.
g. If face plate used has unused slots a blank filler shall be installed.




### LABELING NOTES:

1. Jack numbers shall be sequential and read top to bottom - left to right.
2. BLUE cables for Delta.
3. GRAY cables for patch cables.
4. YELLOW cables for voice.

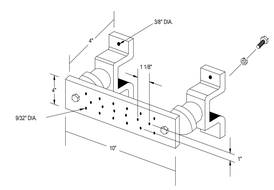
### LABEL LEGEND

W X - Y Z

- 04 - PATCH PANEL PORT #04
- C - PATCH PANEL DESIGNATION
- R1 - RACK NUMBER ONE
- CR - TELECOMMUNICATIONS ROOM

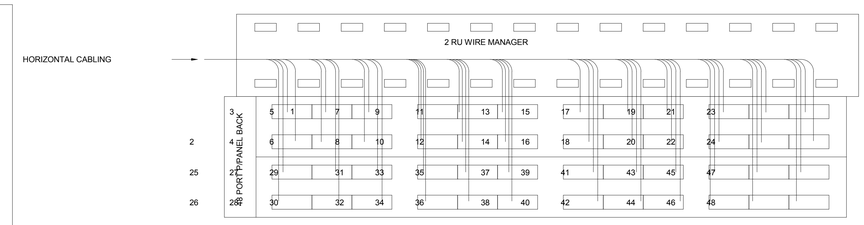
SCALE N.T.S.

TYPICAL TELE/DATA OUTLET DETAIL




SCALE N.T.S.

TYPICAL TELECOM. GROUNDING BUSBAR




FIRST LEVEL

## BUILDING VOICE & DATA RISER DIAGRAM

SCALE: NOT TO SCALE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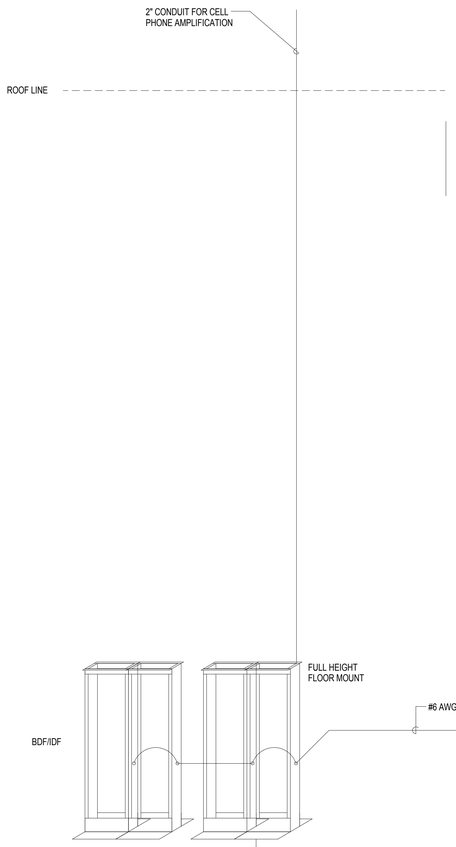
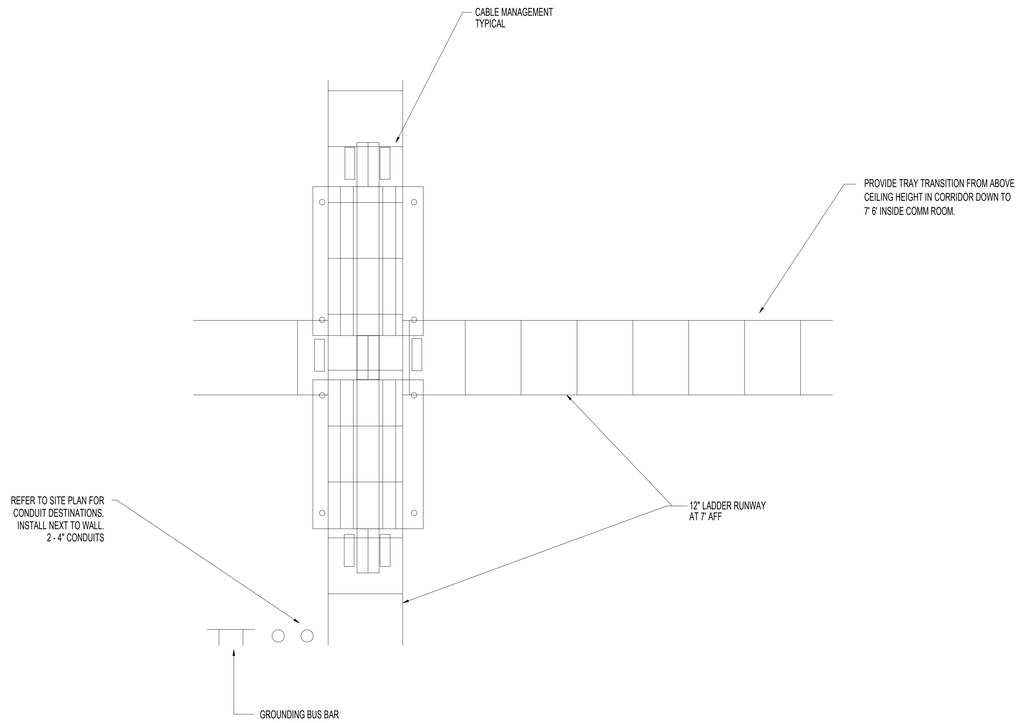
### CONSTRUCTION DOCUMENTS

COMMUNICATION RISER DIAGRAM

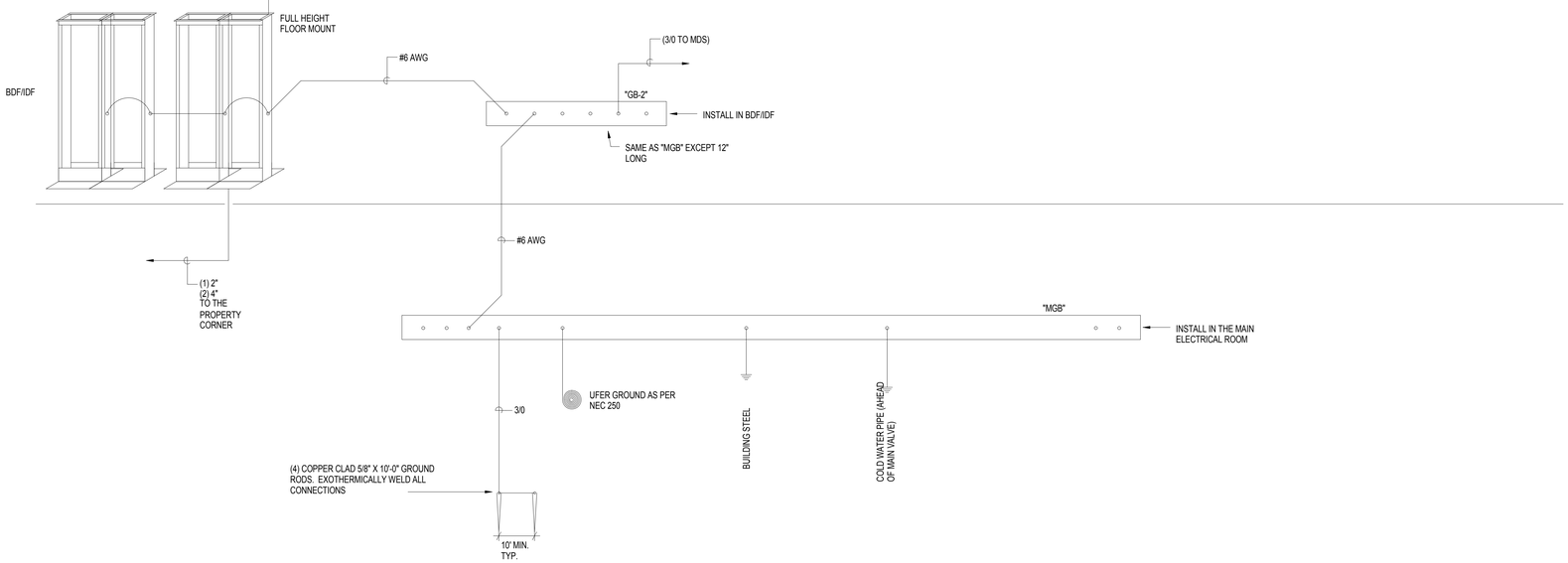
EE1-19




BUILDING VOICE & DATA LADDER TRAY & BRACING

SCALE: NOT TO SCALE




BUILDING VOICE & DATA GROUNDING RISER DIAGRAM

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| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrziewski Designs - 801.582.9747 |

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SHEET DATA

Drawn By: Author

Checked By: Checker

PROJECT

State of Utah Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building | Salt Lake City, UT 84114 | 801.538.3018

DFCM # 14190230

DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

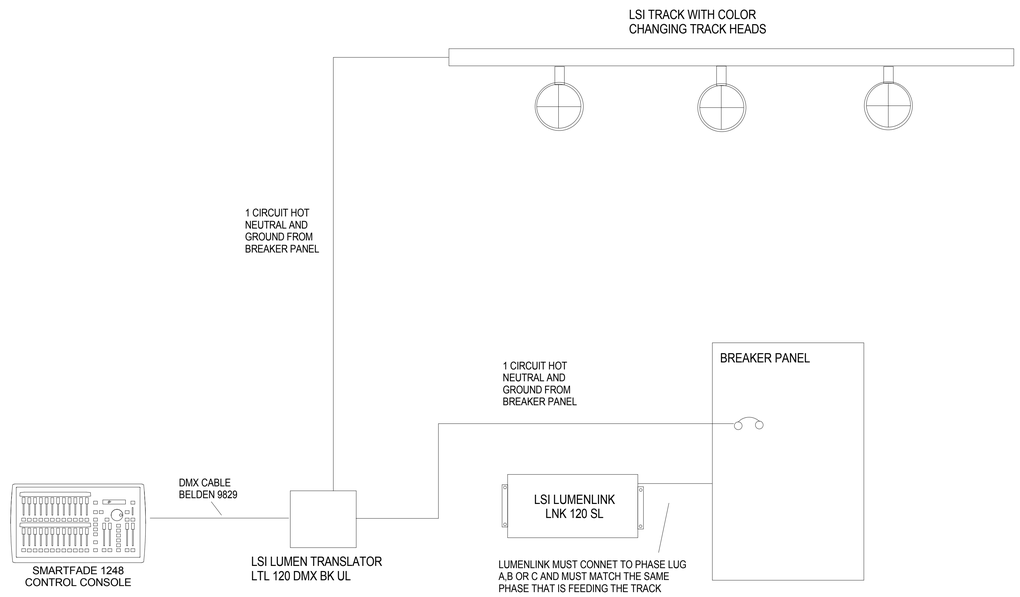
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |

CONSTRUCTION DOCUMENTS

COMM GROUNDING & LADDER

EE1-20




STAGELIGHTING CONTROL SYSTEM

NOTE:

TYPICAL THEATRICAL LIGHTING CONTROL
RISER DIAGRAM

APPROVED MANUFACTURERS:
ETC
STRAND
088

JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07

CONSULTANTS

| | |
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| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrziewski Designs - 801.582.9747 |

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LICENSED PROFESSIONAL ENGINEER
No. 185650
ENAYAT ULLAH
STATE OF UTAH

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|---|---|
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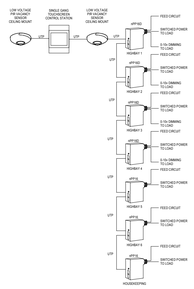
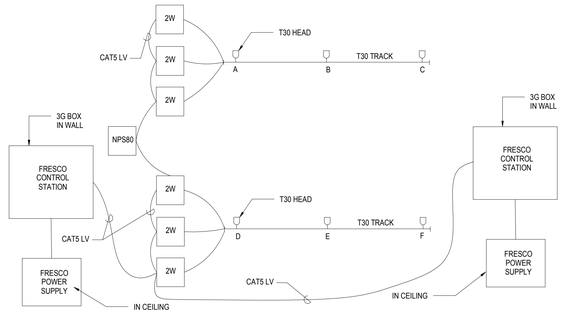
CONSTRUCTION DOCUMENTS

THEATER LIGHTING
CONTROL SYSTEM

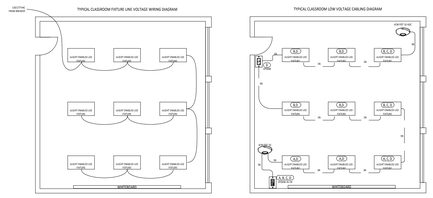
EE1-21




**GYM LIGHTING CONTROL SYSTEM**




**CONSULTATION ROOM**




| Notes |
|---|
| • ALL ILIGHT DEVICES IN EACH ZONE INTERCONNECT IN A DAISY CHAIN TOPOLGY<br>• ORDER OF DEVICES SHOWN IS NOT REQUIRED, DEVICES CAN BE CHANGED IN ANY ORDER.<br>• CAT5 CABLE TERMINATED WITH WHITE BOOTED RJ45 CONNECTORS<br>• CAT5 CONNECTORS ONLY UTILIZE "B" STANDARD FOR CONDUCTOR ORDER |

| Wire Designations | | | |
|---|---|---|---|
| ○ "B" BUS<br>**LC&D DIGITAL BUS**<br>**(1) Belden 1583A (CAT 5)** | | | |

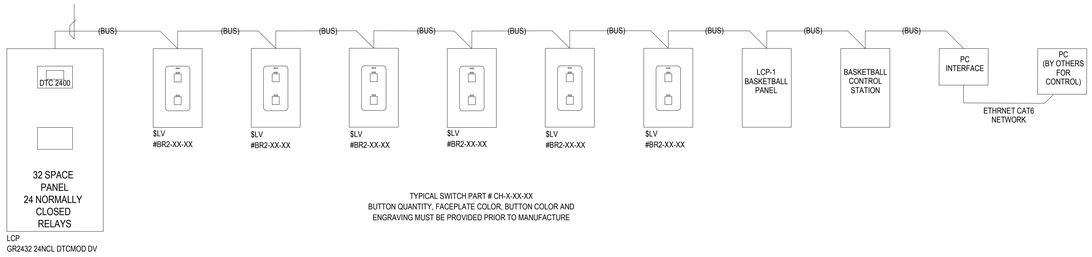
**CLASSROOMS TYPICAL CONTROL SYSTEM**

NOTE:

TYPICAL LIGHTING CONTROL
RISER DIAGRAM

APPROVED MANUFACTURERS:
LITHONIA
COOPER
DOUGLAS

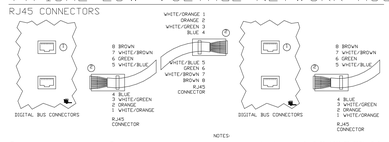
CATEGORY 5 CABLE – BELDEN 1583A
TYPICAL INTERCONNECT BETWEEN PANELS, SWITCHES, & INTERFACES
TERMINATED WITH RJ45 CONNECTORS
ORDER OF DEVICES ON BUS SHOWN FOR DIAGRAMATIC PURPOSES ONLY
ORDER OF DEVICES IS VARIABLE FOR MOST EFFICIENT CABLE ROUTING




TYPICAL SWITCH PART # CH-X-XX-XX
BUTTON QUANTITY, FACEPLATE COLOR, BUTTON COLOR AND
ENGRAVING MUST BE PROVIDED PRIOR TO MANUFACTURE

LIGHTING CONTROLS - LOW VOLTAGE SINGLE LINE

## TYPICAL LOW VOLTAGE NETWORK HOOK UP




1. RJ45 DIGITAL BUS CONNECTORS ARE LOCATED ON EVERY DIGITAL DEVICE (DIGITAL DEVICES ARE DEFINED AS: PANELS, SWITCHES, SWITCHED - AND ALL DIGITAL ACCESSORIES).
2. RJ45 CONNECTORS USE THE SAME COLOR CODING AS ETHERNET, AND ARE MADE AS STRAIGHT THROUGH CABLES. ANY CHANGE WILL CAUSE CAUSE SYSTEM FAILURE. ALL CABLES SUPPLIED BY CONTRACTOR

NOTES:

1. DAISY-CHAIN CAT. 5 PATCH CABLE WITH RJ45 CONNECTORS FROM DIGITAL DEVICE TO DIGITAL DEVICE.
2. REFER TO MANUFACTURERS INSTRUCTIONS FOR LONG DISTANCE RUNS BETWEEN DIGITAL DEVICES.
3. UP TO 4,000 FT TOTAL BUS LENGTH.
4. DROP AND TEST EACH CABLE FOR SHORT AND CROSS PRIOR TO INSTALLATION

NOTES:

1– RELAY SYSTEM TOPOLOGY IS TO BE DAISY CHAIN FORMATION ONLY. DEVICES CAN BE INSTALLED IN ANY ORDER IN THE DAISY CHAIN. SYSTEM WILL BE PROVIDED WITH BLUE TERMINATOR THAT MUST BE INSTALLED IN THE FIRST AND THE LAST DEVICE IN THE CHAIN.

2– MODEM CONNECTION IS FOR CONVENIENCE ONLY, IF USED IT MUST BE CONNECTED TO A STANDARD ANALOG PHONE LINE FOR REMOTE ACCESS BY THE FACTORY FOR FUTURE PROGRAMMING CHANGES.

3– CAT 5 CABLE AND TERMINATIONS ARE TO BE COMPLETED BY THE CONTRACTOR PRIOR TO PROGRAMMING BY THE FACTORY.

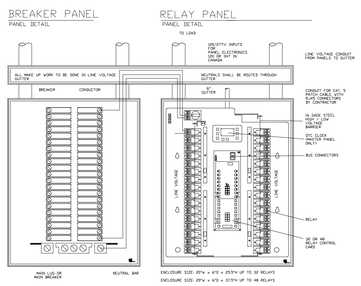
4– CAT 5 TERMINATIONS ARE TO BE COMPLETED AS DETAILED ABOVE, AND MUST BE TESTED AND CONFIRMED CORRECT BEFORE ON SITE TECHNICIAN ARRIVES ON SITE.

5 – ALL SWITCHES (STANDARD DIGITAL STYLE) – MOUNT IN A STANDARD GANG BOX, "DECORATOR" STYLE PLATE IS REQUIRED, AND NOT PROVIDED. SWITCHES CAN BE "GANGED" TOGETHER USING A STANDARD "DECORATOR" STYLE PLATE.

6 – THE COMMUNICATION "BUS" SHALL BE TESTED FOR "PIN TO PIN" CONTINUITY PRIOR TO POWERING ON THE PANEL.

7 – LC&D "FINAL ACTIVATION CHECKLIST" TO BE PERFORMED AND PROVIDED TO JRC AT TIME OF PROGRAMMING REQUEST.

## TYPICAL LINE VOLTAGE HOOK UP




| Wire Designations | | | |
|---|---|---|---|
| ○ BUS<br>**LC&D DIGITAL BUS**<br>**(1) Belden 1583A (CAT 5)** | ○ AC<br>**ANALOG PHOTOCELL**<br>**(2) #18 AWG Stranded** | ○ LINE<br>**LINE VOLTAGE** | ○ TEL<br>**TELEPHONE LINE**<br>**(4) #24 AWG solid jacketed** |

○ N **ETHERNET**
**(1) Belden 1583A**

**BUILDING LIGHTING CONTROL SYSTEM**


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

| | |
|---|---|
| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**

4110 State Office Building | Salt Lake City, Utah 84114-1013

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
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| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |

CONSTRUCTION DOCUMENTS

LIGHTING CONTROL SYSTEM

EE1-22

# LIGHTING FIXTURE SCHEDULE

| SYMBOL | DESCRIPTION | LAMP/FIXTURE INFORMATION | | APPROVED MANUFACTURERS | CATALOG NUMBER | PICTURE |
|---|---|---|---|---|---|---|
| T-1 | 2' X 4' RECESSED LIGHTING FIXTURE | LAMP | | LITHONIA | 2ALL4 CTRF 48L EZ1 LP840 | |
| | | VOLTAGE | | METALUX | 24EN-LD1-49-UNV-L840-CD1-U | |
| | | MOUNT | | PINNACLE | LU24A-3547-G1-UNV-1D-W | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| T-2 | 2' X 2' RECESSED LIGHTING FIXTURE | LAMP | | LITHONIA | 2ALL2 CTRF 40L EZ1 LP840 | |
| | | VOLTAGE | | METALUX | 22EN-LD1-39UNV-L840-CD1-U | |
| | | MOUNT | | PINNACLE | LU24A-3542-G1-UNV-1D-W | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| T-3 | 4' PENDANT LIGHTING FIXTURE | LAMP | | PEERLESS | BRM9L HI SSH 4FT R4 120° EZB SCT LP840 F2/48 C210 ACG | |
| | | VOLTAGE | | CORELITE | J2-W-L-3L-40-1-D-UNV-AC48-T1-4 | |
| | | MOUNT | | PINNACLE | L6A35-35HO-4--AC48G1-UNV-1D-W | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| T-4 | 8' PENDANT LIGHTING FIXTURE | LAMP | | PEERLESS | BRM9L HI SSH 8FT R8 120° EZB SCT LP840 F2/48 C210 ACG | |
| | | VOLTAGE | | CORELITE | J2-W-L-3L-40-1-D-UNV-AC48-T1-8 | |
| | | MOUNT | | PINNACLE | L6A35-35HO-8--AC48G1-UNV-1D-W | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| T-5 | 12' PENDANT LIGHTING FIXTURE | LAMP | | PEERLESS | BRM9L HI SSH 12FT R8 120° EZB SCT LP840 F2/48 C210 ACG | |
| | | VOLTAGE | | CORELITE | J2-W-L-3L-40-1-D-UNV-AC48-T1-12 | |
| | | MOUNT | | PINNACLE | L6A35-35HO-12--AC48G1-UNV-1D-W | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-6 | 4" STRIP LIGHTING FIXTURE | LAMP | | LITHONIA | ZL1N L48 5000LM L/LENS MVOLT 40K 80CRI WH | |
| | | VOLTAGE | | METALUX | SNLED-LD1-52-UNV-LW-L840-CD1-U | |
| | | MOUNT | | DAY BRITE | LFR4FLSD3735ULAG | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| T-7 | LED LIGHTING INGRADE LINEAR, RECESSED IN FLOOR, WALKABLE, TOTALLY ENCLOSED AND WATER PROOF. RGB. INCLUDE # IP67 JUNCTION BOX | LAMP | | | | |
| | | VOLTAGE | | LUMENPULSE | LOI-15V-48-RGB-DMX 1FX-60X60-TSO-ASL | |
| | | MOUNT | | BEGA | 7849LED | |
| | | COLOR | | ERCO | 32811.000 | |
| | | BALLAST | | | | |
| T-8 | 1' X 4' SURFACE MOUNTED LIGHTING FIXTURE | LAMP | | LITHONIA | ALLS4 40L EZ1 LP840 | |
| | | VOLTAGE | | METALUX | 14EN-LD1-43-UNV-L840-CD1-U MS-SR-14-U | |
| | | MOUNT | | PINNACLE | LU24A-3547-GS-UNV-1D-W | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| T-9 | LED DOWN LIGHT FIXTURE 8" OPENING | LAMP | | GOTHAM LIGHTING | LDN6 35/15L06AR 120 | |
| | | VOLTAGE | | PORTFOLIO | LD6A15D010TE ERM6A15840 6LM1LI HB26 | |
| | | MOUNT | | LOL - PHILIPS | C8L35N1VBZ10V W/ C8L35DL35KWCCLWVB | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| T-10 | WALL MOUNT FIXTURE VERIFY LENGTH UP AND DOWN LIGHT | LAMP | | PEERLESS | BRW9L HI SSH 4FT R4 120° EZB SCT LP840 C210 | |
| | | VOLTAGE | | CORELITE | JW-L-1L-40-1D-UNV-SU-WA-4 | |
| | | MOUNT | | LEDALIT | 7408-L-B-E-Q-N-XX-1-1-E-SCBA | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| T-11 | LED TRACK LIGHT MOUNT LIGHT FIXTURES AND TRACKS, FIELD VERIFY EXACT LENGTH AND NUMBER OF HEADS. | LAMP | | Lighting Services (LSI) | LP2 20 RGBW BUS LT WH | |
| | | VOLTAGE | | TIME SQUARE LIGHTING | ELE729-40/TRACK ADAPOR/RGB TRACK | |
| | | MOUNT | | ALTMAN LIGHTING | SSIQ38-RGBW W/TRACK | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| T-12 | LED BOLLARD LIGHT | LAMP | | LITHONIA | DSXB 16C 530 40K SYM MVOLT DDBXD | |
| | | VOLTAGE | | DALS | 3901-42-LEDSB1-120V-SCBA | |
| | | MOUNT | | VISIONAIRE | CTL-1-8R42-XX-20LC-5-4K-UNV-AB-SCBA | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| T-13 | POLE MOUNT LIGHT 12' | LAMP | | LITHONIA | DSX0 LED 20C 1000 40K T3M MVOLT SPA DDBXD | |
| | | VOLTAGE | | VISIONAIRE | VLX-1-TX-64LC-3-4K-UNV-AM-SCBA | |
| | | MOUNT | | | | |
| | | COLOR | | MCGRAW-EDISON | GLEON-AE-02-LED-E1-T3-SCBA | |
| | | BALLAST | | | SSP12-4.0-11-DM10-SCBA-BC | |
| T-14 | POLE LIGHT 25' | LAMP | | LITHONIA | DSX0 LED 40C 1000 40K T3M MVOLT SPA DDBXD | |
| | | VOLTAGE | | VISIONAIRE | VLX-1-TX-64LC-5-4K-UNV-AM-SCBA | |
| | | MOUNT | | | | |
| | | COLOR | | MCGRAW-EDISON | GLEON-AE-02-LED-E1-T3-SCBA | |
| | | BALLAST | | | SSP15-4.0-11-DM10-SCBA-BC | |
| T-15 | 2'X4' PENDANT HIGH BAY LED | LAMP | | LITHONIA | IBH 24000LM SD080 MD MVOLT GZ10 40K 70CRI WH | |
| | | VOLTAGE | | METALUX | HBLED-LD4-24-W-AI-UNV-L840-CD1-UY-TOGGLE-10 | |
| | | MOUNT | | DAYBRITE | FBX24LL40-UNV | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-16 | 8' DOWNLIGHT | LAMP | | SPECTRUM LIGHTING | SGE8LEDCX 60W 40K MD DS101 BHZTARB240CX-GS | |
| | | VOLTAGE | | PORTFOLIO | LD8A401D010TE ER8A40840 8LM1LI HB26 | |
| | | MOUNT | | LOL - PHILIPS | C8L35N1VBZ10V W/ C8L35DL35KWCCLWVB | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-17 | LED UNDER CABINET LIGHT FIXTURE, FIELD VERIFY EXACT LENGTH | LAMP | | TECH | 700UCFDW30 93 W LED | |
| | | VOLTAGE | | HALO | HU1024D930SCBA | |
| | | MOUNT | | NEW STAR LIGHTING | MUSX-HC0L1-035-A-UN | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-18 | LED WALL MOUNT EXTERIOR RATED LGIHT FIXTURE | LAMP | | LITHONIA | OLWX1 LED 40W 40K | |
| | | VOLTAGE | | LUMARK | XTOR3A | |
| | | MOUNT | | VISIONAIRE | VXC-1-XX-16LC-5-4K-WOM-SCBA | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-19 | LED LANDSCAPE LIGHT | LAMP | | BEGA | 7903 LED | |
| | | VOLTAGE | | TERON | RVI-SCBA-XX | |
| | | MOUNT | | HADCO | BL90CAS7 | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-20 | LED RECESSED 2X4 LIGHT FIXTURE, CENTER BASKET DIFFUSER. | LAMP | | | | |
| | | VOLTAGE | | METALUX | 24CZ-LD4-45-RDP-UNV-L840-CD1-U | |
| | | MOUNT | | LITHONIA | 2VTL4 48L ADP EZ1 LP840 N80 | |
| | | LAMP | | PINACLE | AD24A-4043-G1-UNV-1D-W | |
| | | VOLTAGE | | | | |
| T-21 | LED WALL SCONCE CORRIDOR LIGHTING | LAMP | | LIGHTWAY INDUSTRIES | MERW-616-LED-X-U-11W-3-SCBA-WSA | |
| | | VOLTAGE | | EUREKA LIGHTING | 3455-KDH 2XLED.8.30 120 ANTE CFR | |
| | | MOUNT | | | | |
| | | LAMP | | 36X1W LED | | |
| | | VOLTAGE | | MV | | |
| T-22 | LED BEACON LIGHT TO FLASH CONTROLLED BY SWITCH. | LAMP | | QUANTUM LTG GROUP | FED SIGNAL LP3TL-024A/K8285237A | |
| | | VOLTAGE | | POINT | POL-21002 1 F R 34B S | |
| | | MOUNT | | COLOR KENTICS | 123-000022-01 | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-23 | LED DOWN LIGHT, LONG THROW, NARROW BEAM PATTERN | LAMP | LED | WILA LIGHTING | 621-9-6-4-SSA20-80-120-BDIM | |
| | | VOLTAGE | | GOTHAM | ICO 40/40 6AR 20D 120 EZB | |
| | | MOUNT | | LOL - PHILIPS | C8L15NUBZ10V W/ C8L1520DL40MMCCLWVB | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-24 | LED GLASS TUBE FROSTED LED LAMP, FIELD VERIFY PENDENT LENGTH | LAMP | | BRUCK LIGHTING | 223850MC-MP | |
| | | VOLTAGE | | EUREKA LIGHTING | 4037-XLH LED.4.40 120 DV C 60 SQC WH CHR WH | |
| | | MOUNT | | LBL | HS586-SCBA-SCBA-LEDS830 | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-25 | LED LINEAR WALL BRACKET, UP AND DOWN LIGHT. RGB | LAMP | | LUMENPULSE | LL12S-WM-DI-120-4-IRGB-IRGB-DMX-1FX-WH | |
| | | VOLTAGE | | ARCHITECTURAL LIGHTING WORKS | LF2OUD-W 4' IRGB EXT IRGB-DMX DRGB EXT DRGB-DMS 1CKT 120 WH | |
| | | MOUNT | | ALIGHT | D2X | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-26 | LED POLE MOUNTED - BRACKET WIDE BEAMM FLOOD LIGHT. | LAMP | | LUMARK | NFFLD-A40-E-UNV-66-S-CB | |
| | | VOLTAGE | | LITHONIA | DSXF3 LED 8 A530/40K WFL MVOLT IS DDBXD | |
| | | MOUNT | | CRRESCENT-STONCO | LPF4-C-4K-FL-X-8-SCBA-W/POLE | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-27 | RED LED STRIP. ALUMINIUM HOUSING WITH THE CONTROLLER. TO BE INSTALLED IN THE ENTIRE LENGTH OF THE STAIRWELL. VERIFY LENGTH. SEE ARCH DETAILS FOR MORE INFORMATION. | LAMP | | COLOR KINETICS | 523-000065-19 | |
| | | VOLTAGE | | WINONA | PLS729W LSL 1FT MSL1 700ADJ1 60DEB RGB MVOLT FCLP10A SIT | |
| | | MOUNT | | LUMENPULSE | LOGI HO-120-48-RD-10X60-XX-UMP-WH-DIM | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-28 | LED COVE LIGHT FIXTURES, LINEAR, ASSYMETRICAL REFLECTOR, FIELD VERIFY EXACT LENGHTS. | LAMP | | | | |
| | | VOLTAGE | | INSIGHT LIGHTING | PL 6 40K 120 SM 48 REM MW - C11000/DIM/120V | |
| | | MOUNT | | GAMALUX | GC62LED-120V-ERS-XX-CV-OP-WH | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-29 | LED FLASHING LIGHTS ON THE BASKETBALL STANDARDS WITH REMOTE CONTROLLER. | LAMP | | POINT LIGHTING | POL-21002 1 F R 34B S | |
| | | VOLTAGE | | QUANTUM LTG GROUP | FED SIGNAL LP3TL-024A/K8285237A | |
| | | MOUNT | | | | |
| | | LAMP | | | | |
| | | VOLTAGE | | | | |
| T-30 | TRACK FOR CONSULT, 3CKT TRACK | LAMP | | SLV | 7722001U/772191U/722290U 7153391U | |
| | | VOLTAGE | | | | |
| | | MOUNT | | | | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| T-31 | LED STAIR LIGHT | LAMP | | JESCO FIBER | SD-111-CC | |
| | | VOLTAGE | | VISUAL LIGHTING TECHNOLOGIES | F-LF-SF-PM-33 | |
| | | MOUNT | | BRUCK | 135653WH/S 900221RS | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| T-32 | LED 6" SQUARE DOWN LIGHT | LAMP | | PATHWAY | 6SQLED-3000-4K-6SQLED-HAZPF-27BH | |
| | | VOLTAGE | | | | |
| | | MOUNT | | | | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| T-33 | LED MIRROR LIGHT | LAMP | | NEORAY | S124-DR-2-40-FSR-XXXX-1-1U-DD-(zr)-4-W | |
| | | VOLTAGE | | | | |
| | | MOUNT | | | | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| EX-1 | LED EXIT SIGN ALUMINUM HOUSING, GREEN LETTERING, SINGLE SIDED. | LAMP | | LITHONIA | TLE 1 G EL N | |
| | | VOLTAGE | | | | |
| | | MOUNT | UNIVERSAL | EVENLITE | CCSDS-EM-G-1-SCBA-XX | |
| | | COLOR | | | | |
| | | BALLAST | | | | |
| EX-2 | SAME AS ABOVE DOUBLE SIDED. | LAMP | | LITHONIA | TLE 2 G EL N | |
| | | VOLTAGE | | | | |
| | | MOUNT | | EVENLITE | CCSDS-EM-G-2-SCBA-XX | |
| | | COLOR | | | | |
| | | BALLAST | | | | |

## NOTES:

1. ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC PROGRAMMABLE START BALLASTS, 10%. TOTAL HARMONIC DISTORTION. UNIVERSAL, ADVANCE AND SYLVANIA ARE APPROVED MANUFACTURERS. BALLASTS TO HAVE 5 YEAR WARRANTY.
2. ALL FLUORESCENT LAMPS SHALL HAVE 4100° COLOR TEMPERATURE.
3. FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR TO PLACING ANY ORDER.
4. THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER.


JACOBY ARCHITECTS

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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 801.538.3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |

CONSTRUCTION DOCUMENTS

LIGHT FIXTURE SCHEDULE

EE1-23

# LIGHTING RELAY PANEL SCHEDULE - LRP2

| RELAY NUMBER | AREA SERVED | LIGHTNG CIRCUIT N0. | DEMAND LOAD | VOLTS | METHOD OF CONTROL |
|---|---|---|---|---|---|
| 0 | STRIP LIGHT NORTH STAIR | 1EP-20 | 100 | 120 | -- |
| 2 | STRIP LIGHT NORTH STAIR | 1EP-22 | 100 | 120 | -- |
| 3 | STRIP LIGHT NORTH STAIR | 1EP-24 | 100 | 120 | -- |
| 4 | STRIP LIGHT NORTH STAIR | 1EP-26 | 100 | 120 | -- |
| 5 | STRIP LIGHT SOUTH STAIR | 1EP-23 | 100 | 120 | -- |
| 6 | STRIP LIGHT SOUTH STAIR | 1EP-25 | 100 | 120 | -- |
| 7 | STRIP LIGHT SOUTH STAIR | 1EP-27 | 100 | 120 | -- |
| 8 | STRIP LIGHT SOUTH STAIR | 1EP-29 | 100 | 120 | -- |
| 9 | LIGHTING LIGHT ROOM 108 | 1P2-55 | 4800 | 120 | -- |
| 10 | LIGHTING ABOVE STAGE | 2P1-32 | 1200 | 120 | -- |
| 11 | LIGHTING ABOVE STAGE | 2P1-33 | 1200 | 120 | -- |
| 12 | LIGHTING ABOVE STAGE | 2P1-35 | 1200 | 120 | -- |
| 13 | LIGHTING CONSULT A245 | 1EP-60 | 3600 | 120 | -- |
| 14 | LIGHTING CONSULT A245 | 1EP-62 | 240 | 120 | -- |
| 15 | SPARE | | | | |
| 16 | SPARE | | | | |

NOTES:

1. PANEL SHALL HAVE A SELF CALIBRATING ASTRONOMICAL CLOCK.
2. PANEL SHALL HAVE A DIGITAL DISPLAY AND PROGRAMMING INTERFACE.
3. PANEL SHALL HAVE A NON-VOLITILE PROGRAMMING MEMORY.
4. PANEL SHALL BE TIED TO THE BUILDING'S EXTERNAL PHOTOCELL.
5. ALL RELAYS SHALL BE N.O./N.C.
6. WIRING FOR LOW VOLTAGE CONTROL SHALL BE A CAT-5/RJ45 OR WIRELESS SOLUTION. LC&D, WATTSTOPPER, LEVITON AND LUTRON ARE APPROVED MANUFACTURERS.
7. ALL ENCLOSURES SHALL BE APT FOR RECESSED MOUNTING.
8. ALL LOW VOLTAGE WIRING SHALL BE INDEPENDENTLY SUPPORTED FROM THE CEILING DECK AND SHALL NOT CONTACT ANY MECHANICAL SYSTEM.
9. ALL LOW VOLTAGE WIRING FOR THIS SYSTEM SHALL BE COLOR GREEN.
10. ALL LOW VOLTAGE WIRING SHALL HAVE LABELS INDICATING THE ORIGIN AND DESTINATION OF EACH CABLE AT THE BEGINNING AND END OF EACH RUN.
11. PROVIDE FACTORY START-UP PRE-CONSTRUCTION MEETING AND TRAINING.

# ELECTRICAL ROUGH-IN/FINAL CONNECTION SCHEDULE - KITCHEN

| ROUGH-IN REQUIREMENTS | | | CONNECTION REQUIREMENTS | | | | REMARKS | CONDUCTOR | CONDUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| RI# | ROUGH-IN TYPE | HGT. | ITEM # : EQUIPMENT DESCRIPTION | VLY/CYC/PH | LOAD | CONN | REMARK | | | |
| E-01 | OUTLET | +88" | #K1 : REACH-IN FREEZER | 115/60/1 | 15.7 AMP | C&P | - | 2#12, 1#12 | 3/4" | PROVIDE OUTLET |
| E-02 | OUTLET | +88" | #K2 : REACH-IN REFRIGERATOR | 115/60/1 | 8.2 AMP | C&P | - | 2#12, 1#12 | 3/4" | PROVIDE OUTLET |
| E-03 | OUTLET | +48" | #K5 : ICE MAKER/DISPENSER | 115/60/1 | 10.3 AMP | C&P | - | 2#12, 1#12 | 3/4" | PROVIDE OUTLET |
| E-04 | CONVENIENCE OUTLET | +48" | #K3 : WORK COUNTER | 120/60/1 | 180 WATT | C&P | (2) EACH LOCATIONS. | 2#12, 1#12 | 3/4" | PROVIDE OUTLET |
| E-05 | CONVENIENCE OUTLET | +48" | #K3 : WORK COUNTER | 120/60/1 | 180 WATT | C&P | (2) EACH LOCATIONS. | 2#12, 1#12 | 3/4" | PROVIDE OUTLET |
| E-06 | OUTLET | +48" | #K7 : MICROWAVE OVEN | 120/60/1 | 1,200 WATT | C&P | (2) EACH LOCATIONS. | 2#12, 1#12 | 3/4" | PROVIDE OUTLET |
| E-07 | JUNCTION BOX | DFA | #K8 : EXHAUST HOOD | 120/60/1 | 300 WATT | J-BOX | INTERCONNECT WITH EXHAUST SYSTEM AND HOOD SWITCH | 2#12, 1#12 | 3/4" | PROVIDE STUB |
| E-08 | SWITCH/CONTROLS | +48" | #K7 EXHAUST HOOD: SWITCH | 120/60/1 | - | - | INTERCONNECT WITH EXHAUST SYSTEM AND EXHAUST HOOD | 2#12, 1#12 | 3/4" | PROVIDE STUB AND SWITCH |
| E-09 | JUNCTION BOX | DFA | #K8 : GAS SHUT OFF VALVE | 120/60/1 | 1 AMP | J-BOX | CONNECT TO GAS SHUT OFF AND HOOD CONTROLS AS REQ'D. INTERCONNECT WITH SHUNT TRIP BREAKER FOR HOOD EQUIPMENT. | 2#12, 1#12 | 3/4" | GAS VALVE TO BE ON A SHUNT TRIP CIRCUIT BREAKER. TIE TO HOOD CONTROL. |
| E-10 | EMERGENCY SWITCH | +54" | #K8 : EXHAUST HOOD: KILL SWITCH | - | - | - | INCLUDED WITH FIRE PROTECTION SYSTEM BY K.E.C. | 2#12, 1#12 | 3/4" | TIE TO CONTROL PANEL |
| E-11 | JUNCTION BOX | DFA | #K7 : EXHAUST HOOD: HEAT SENSOR | 120/60/1 | 15 AMP | J-BOX | INTERCONNECT TO TERMINAL BLOCK PROVIDED IN HOOD. NOTE #2. | 2#12, 1#12 | 3/4" | PROVIDE STUB AND SWITCH |
| E-12 | OUTLET | +12" | #K10 : CONVECTION OVEN | 120/60/1 | 10 AMP | C&P | CONNECT TO UDS SYSTEM | 2#12, 1#12 | 3/4" | PROVIDE OUTLET |
| E-13 | OUTLET | +12" | #K10 : CONVECTION OVEN | 120/60/1 | 10 AMP | C&P | CONNECT TO UDS SYSTEM | 2#12, 1#12 | 3/4" | PROVIDE OUTLET |
| E-14 | OUTLET | - | #K12 : STEAMER | 208/60/3 | 23 AMP | C&P | - | 3#10, 1#10 | 3/4" | PROVIDE SPECIAL OUTLET |
| E-15 | CONVENIENCE OUTLET | +48" | #K13 : WORK COUNTER | 120/60/1 | 180 WATT | C&P | (2) EACH LOCATIONS. | 2#12, 1#12 | 3/4" | PROVIDE OUTLET |
| E-16 | CONVENIENCE OUTLET | +48" | #K13 : WORK COUNTER | 120/60/1 | 180 WATT | C&P | (2) EACH LOCATIONS. | 2#12, 1#12 | 3/4" | PROVIDE OUTLET |
| E-17 | OUTLET (J-BOX) | STUB | #K17 : WORK TABLE | 120/60/1 | 10 AMP | C&P | NOTE #1. TWO EACH OUTLETS | 2#12, 1#12 | 3/4" | PROVIDE OUTLET |

NOTE #1: RUN FLEX FROM STUBBED LOCATION TO JUNCTION BOX MOUNTED AT UNDERSIDE OF WORK TABLE. OUTLETS ARE PRE-WIRED AS PART OF TABLE.
NOTE #2: ELECTRICIAN TO FIELD WIRE LOW VOLTAGE FROM EACH TEMPERATURE CONTROLLER TO HEAT SENSOR PROVIDED WITH HOOD AT EACH EXHAUST RISER.
ELECTRICIAN TO INTERLOCK CONTACTORS OR STARTERS SPECIFIED BY MECHANICAL SYSTEM TO THE CONTACTS AT THE TERMINAL BLOCK TO OPERATE FAN.

# MECHANICAL EQUIPMENT SCHEDULE

| SYMBOL | EQUIPMENT | ELECTRICAL DATA | | | | | FEEDER SIZE | | | PROTECTION & STARTING | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | DISCONNECT | | STARTING FEATURE | | |
| | | HP | KW | FLA | MCA | VOLT/PHASE | WIRE | GROUND | CONDUIT | FUSED/FUSE | N. FUSED | STARTER | VFD | |
| AH-1 | SUPPLY FAN | 75 | | 96 | | 480/3 | 3#2 | 1#6 | 1-1/2 | | | | 75 | VFD |
| AH-2 | SUPPLY FAN | 25 | | 34 | | 480/3 | 3#6 | 1#8 | 1-1/4 | | | | 25 | VFD |
| AH-1 | RETURN FAN | 40 | | 52 | | 480/3 | 3#3 | 1#8 | 1-1/4 | | | | 40 | VFD |
| AH-2 | RETURN FAN | 10 | | 14 | | 480/3 | 3#10 | 1#12 | 3/4 | | | | 10 | VFD |
| CU-1 | SPLIT SYSTEM OUTDOOR | | | 14.5 | | 208/1 | 3#10 | 1#12 | 3/4 | | | | | 1 |
| CU-1 | SPLIT SYSTEM INDOOR | | | | | 208/1 | 3#12 | 1#12 | 3/4 | | | | | 1 |
| CU-2 | SPLIT SYSTEM OUTDOOR | | | 14.5 | | 208/1 | 3#10 | 1#12 | 3/4 | | | | | 1 |
| CU-2 | SPLIT SYSTEM INDOOR | | | | | 208/1 | 3#12 | 1#12 | 3/4 | | | | | 1 |
| CU-3 | SPLIT SYSTEM OUTDOOR | | | 13 | | 208/1 | 3#10 | 1#12 | 3/4 | | | | | 1 |
| CU-3 | SPLIT SYSTEM INDOOR | | | | | 208/1 | 3#12 | 1#12 | 3/4 | | | | | 1 |
| EF-1, 2 | EXHAUST FAN | 0.5 | | 9.8 | | 208 /3 | 3#12 | 1#12 | 3/4 | | | 00 | | 3 |
| EF-3-11 | EXHAUST FAN | 1 / 6 | | 4.4 | | 120/1 | 2#12 | 1#12 | 3/4 | | | | | 2 |
| EF-12 | EXHAUST FAN | 1 / 4 | | 5. | | 120/1 | 2#12 | 1#12 | 3/4 | | | | | 2 |
| B-1,2 | BIOLERS | 1.5 | | 20 | | 120/1 | 2#12 | 1#12 | 3/4 | | | | | EM POWER, 1 |
| P-1,2 | PUMPS | 1.5 | | 2.6 | | 480/3 | 3#12 | 1#12 | 3/4 | 30/6 | | | 2 | EM POWER, 4 |
| P-3,4 | PUMPS | 1/2 | | 9.8 | | 120/1 | 2#12 | 1#12 | 3/4 | | | | | 2 |
| FSD | | | | | | 120/1 | 2#12 | 1#12 | 3/4 | | | | | 2, 6 |

NOTES:

1. STARTER IS FURNISHED WITH THE UNIT. PROVIDE SITE DISCONNECT.
2. PROVIDE THERMAL OVERLOAD SWITCH.
3. PROVIDE COMBINATION STARTER & DISCONNECT (HOA) W/ (2) N.O. & N.C. CONTACTS.
4. FURNISH AND INSTALL VFD. PROVIDE SITE FUSED DISCONNECT WITH ELECTRICAL INTERLOCK (FACTORY INSTALLED).
5. TIE INTO FIRE ALARM SYSTEM FOR AUTOMATIC OPERATION.
6. PROVIDE 120 VOLT POWER THRU A RELAY TO BE CONTROLLED BY F.A.C.P. REFER TO MECHANICAL SHEETS FOR EXACT LOCATION AND NUMBER OF UNITS. TIE EACH (8) UNIT TO 20 AMP., 120 VOLT CIRCUIT.

# LIGHTING RELAY PANEL SCHEDULE - LRP1

| RELAY NUMBER | AREA SERVED | LIGHTNG CIRCUIT N0. | DEMAND LOAD | VOLTS | METHOD OF CONTROL |
|---|---|---|---|---|---|
| 0 | BASEMENT | 1H-2 | 1920 | 277 | MOTION SENSOR/SWITCH |
| 2 | LOCKER FOOD SERVICE | 1H-7 | 2288 | 277 | MOTION SENSOR/SWITCH |
| 3 | 2ST FLOOR BOARD ROOM | 1H-6 | 2243 | 277 | -- |
| 4 | 2ND FLOOR CORRIDOR | 1H-16 | 1707 | 277 | -- |
| 5 | 1ST FLOOR CORRIDOR | 1H-10 | 2454 | 277 | MOTION SENSOR/SWITCH |
| 6 | 1ST FLOOR OFFICE/CLASSROOMS | 1H-23 | 2047 | 277 | -- |
| 7 | 1ST FLOOR CLASSROOMS | 1H-11 | 468 | 277 | MOTION SENSOR/SWITCH |
| 8 | 1ST FLOOR OFFICE/CLASSROOMS | 1H-26 | 2396 | 277 | MOTION SENSOR/SWITCH |
| 9 | 1ST FLOOR OFFICE/CLASSROOMS | 1H-12 | 2031 | 277 | -- |
| 10 | 1ST FLOOR STAGE AREA | 1H-14 | 1366 | 277 | MOTION SENSOR/SWITCH |
| 11 | 1ST FLOOR CORRIDOR | 1H-9 | 300 | 277 | -- |
| 12 | 2ND FLOOR CORRIDOR | 1H-15 | 3479 | 277 | -- |
| 13 | 1ST FLOOR CORRIDOR | 1H-13 | 860 | 277 | -- |
| 14 | 1ST FLOOR OFFICE/CLASSROOM | 1H-27 | 2054 | 277 | MOTION SENSOR/SWITCH |
| 15 | 1ST FLOOR CLASSROOM | 1H-28 | 384 | 277 | MOTION SENSOR/SWITCH |
| 16 | SECOND FLOOR ABOVE STAGE | 1H-17 | 1452 | 277 | -- |
| 17 | SECOND FLOOR CORIDOR | 1H-18 | 544 | 277 | -- |
| 18 | GYMNASIUM | 1H-20 | 1680 | 277 | -- |
| 19 | FIRST FLOOR STAGE | 2P1-32 | 1200 | 277 | -- |
| 20 | FIRST FLOOR STAGE | 2P1-33 | 1200 | 277 | -- |
| 21 | SPARE | | | | |
| 22 | SPARE | | | | |
| 23 | SPARE | | | | |
| 24 | SPARE | | | | |
| 25 | SPARE | | | | |
| 26 | SPARE | | | | |
| 27 | SPARE | | | | |
| 28 | SPARE | | | | |
| 29 | SPARE | | | | |
| 30 | SPARE | | | | |

NOTES:

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STAMP

No. 185650
ENAYAT ULLAH NAWABI
LICENSED PROFESSIONAL ENGINEER
STATE OF UTAH


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SHEET DATA
Drawn By: Author
Checked By: Checker

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DFCM APPROVAL STAMP:

ADDENDA
Revision Date

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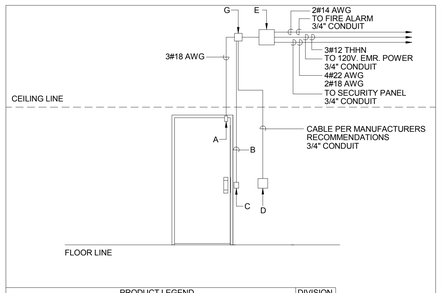
2014 10 09 Schematic Design
2014 12 11 Design Development

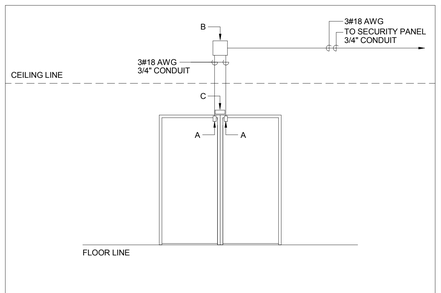
CONSTRUCTION DOCUMENTS
SCHEDULES

EE1-24



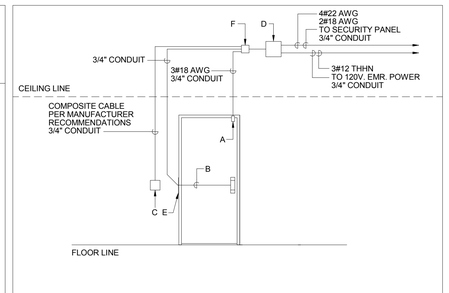

| | PRODUCT LEGEND | | DIVISION |
|---|---|---|---|
| A | DOOR POSITION SWITCH | | 8 |
| B | DOOR WIRING HARNESS | | 8 |
| C | ELECTRIC STRIKE | | 8 |
| D | SMART CARD READER | | 28 |
| E | POWER SUPPLY | | 8 |
| F | POWER TRANSFER | | 8 |
| G | JUNCTION BOX & CONDUIT | ELECTRICAL CONTRACTOR | 26 |

SECURITY SYSTEM DOOR DETAIL (1 / EE1-25)



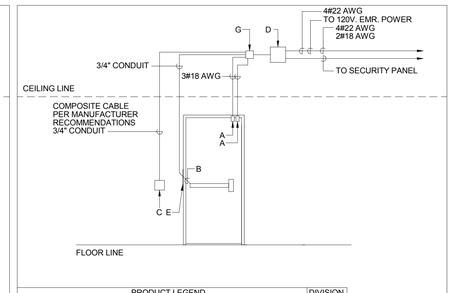

| | PRODUCT LEGEND | | DIVISION |
|---|---|---|---|
| A | DOOR POSITION SWITCH | | 8 |
| B | JUNCTION BOX & CONDUIT | ELECTRICAL CONTRACTOR | 26 |
| C | EXIT MOTION SENSOR | | 8 |

SECURITY SYSTEM DOOR DETAIL (2 / EE1-25)



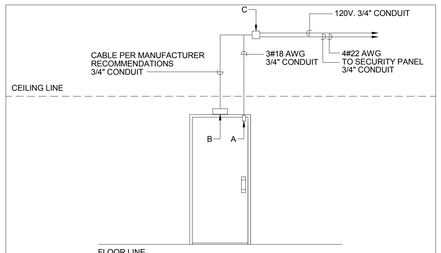

| | PRODUCT LEGEND | | DIVISION |
|---|---|---|---|
| A | DOOR POSITION SWITCH | | 8 |
| B | DOOR WIRING HARNESS | | 8 |
| C | SMART CARD READER | | 28 |
| D | POWER SUPPLY | | 8 |
| E | POWER TRANSFER | | 8 |
| F | JUNCTION BOX & CONDUIT | ELECTRICAL CONTRACTOR | 26 |

SECURITY SYSTEM DOOR DETAIL (3 / EE1-25)



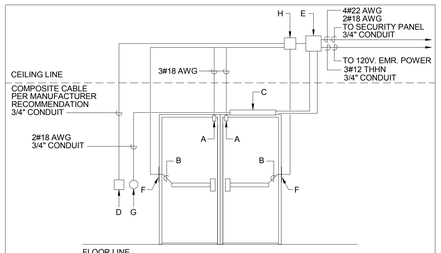

| | PRODUCT LEGEND | | DIVISION |
|---|---|---|---|
| A | DOOR POSITION SWITCH | | 8 |
| B | DOOR WIRING HARNESS | | 8 |
| C | SMART CARD READER | | 28 |
| D | POWER SUPPLY | | 8 |
| E | POWER TRANSFER | | 8 |
| F | REMOTE ALARM | | 8 |
| G | JUNCTION BOX & CONDUIT | ELECTRICAL CONTRACTOR | 26 |

SECURITY SYSTEM DOOR DETAIL (4 / EE1-25)



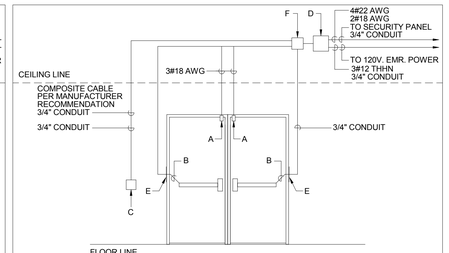

| | PRODUCT LEGEND | | DIVISION |
|---|---|---|---|
| A | DOOR POSITION SWITCH | | 8 |
| B | EXIT MOTION SENSOR | | 8 |
| C | JUNCTION BOX & CONDUIT | ELECTRICAL CONTRACTOR | 26 |

SECURITY SYSTEM DOOR DETAIL (5 / EE1-25)



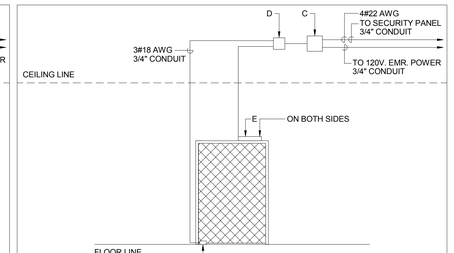

| | PRODUCT LEGEND | | DIVISION |
|---|---|---|---|
| A | DOOR POSITION SWITCH | | 8 |
| B | DOOR WIRING HARNESS | | 8 |
| C | AUTO OPERATOR | | 8 |
| D | SMART CARD READER | | 28 |
| E | POWER SUPPLY | | 8 |
| F | POWER TRANSFER | | 8 |
| G | ACTUATOR | | 8 |
| H | JUNCTION BOX & CONDUIT | ELECTRICAL CONTRACTOR | 26 |
| I | NOT USED | | - |

SECURITY SYSTEM DOOR DETAIL (6 / EE1-25)



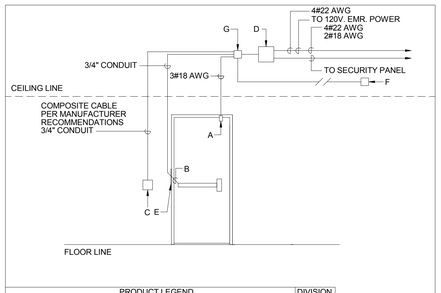

| | PRODUCT LEGEND | | DIVISION |
|---|---|---|---|
| A | DOOR POSITION SWITCH | | 8 |
| B | DOOR WIRING HARNESS | | 8 |
| C | SMART CARD READER | | 28 |
| D | POWER SUPPLY | | 8 |
| E | POWER TRANSFER | | 8 |
| F | JUNCTION BOX & CONDUIT | ELECTRICAL CONTRACTOR | 26 |

SECURITY SYSTEM DOOR DETAIL (7 / EE1-25)



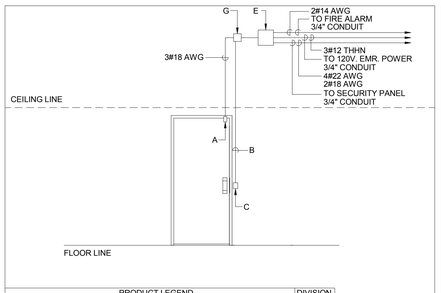

| | PRODUCT LEGEND | | DIVISION |
|---|---|---|---|
| A | DOOR POSITION SWITCH | | MFG |
| B | SMART CARD READER | | 28 |
| C | POWER SUPPLY | | MFG |
| D | JUNCTION BOX & CONDUIT | ELECTRICAL CONTRACTOR | 26 |
| E | MOTION SENSORS | | MFG |

SECURITY SYSTEM DOOR DETAIL (8 / EE1-25)



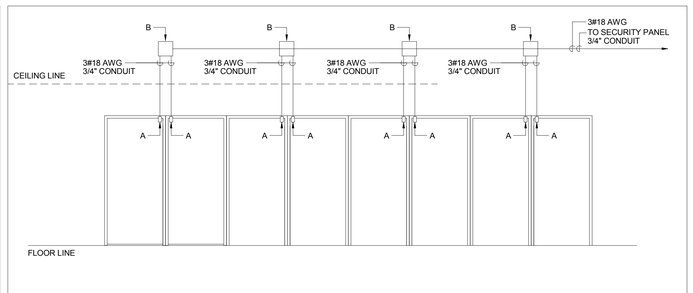

| | PRODUCT LEGEND | | DIVISION |
|---|---|---|---|
| A | DOOR POSITION SWITCH | | 8 |
| B | DOOR WIRING HARNESS | | 8 |
| C | SMART CARD READER | | 28 |
| D | POWER SUPPLY | | 8 |
| E | POWER TRANSFER | | 8 |
| F | REMOTE ALARM | | 8 |
| G | JUNCTION BOX & CONDUIT | ELECTRICAL CONTRACTOR | 26 |

SECURITY SYSTEM DOOR DETAIL (9 / EE1-25)




| | PRODUCT LEGEND | | DIVISION |
|---|---|---|---|
| A | DOOR POSITION SWITCH | | 8 |
| B | DOOR WIRING HARNESS | | 8 |
| C | ELECTRIC STRIKE | | 8 |
| D | SMART CARD READER | | 28 |
| E | POWER SUPPLY | | 8 |
| F | POWER TRANSFER | | 8 |
| G | JUNCTION BOX & CONDUIT | ELECTRICAL CONTRACTOR | 26 |

SECURITY SYSTEM DOOR DETAIL (10 / EE1-25)




| | PRODUCT LEGEND | | DIVISION |
|---|---|---|---|
| A | DOOR POSITION SWITCH | | 8 |
| B | JUNCTION BOX & CONDUIT | ELECTRICAL CONTRACTOR | 26 |

SECURITY SYSTEM DOOR DETAIL (2 / EE-25)


JACOBY ARCHITECTS

425 South 400 East
Salt Lake City
Utah 84111
801 363 1434
Project Number: 2014-07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| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
| Civil: - | Meridian Engineering, Inc. - 801.569.1315 |
| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
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PROJECT

State of Utah Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

DFCM # 14190230
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|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |

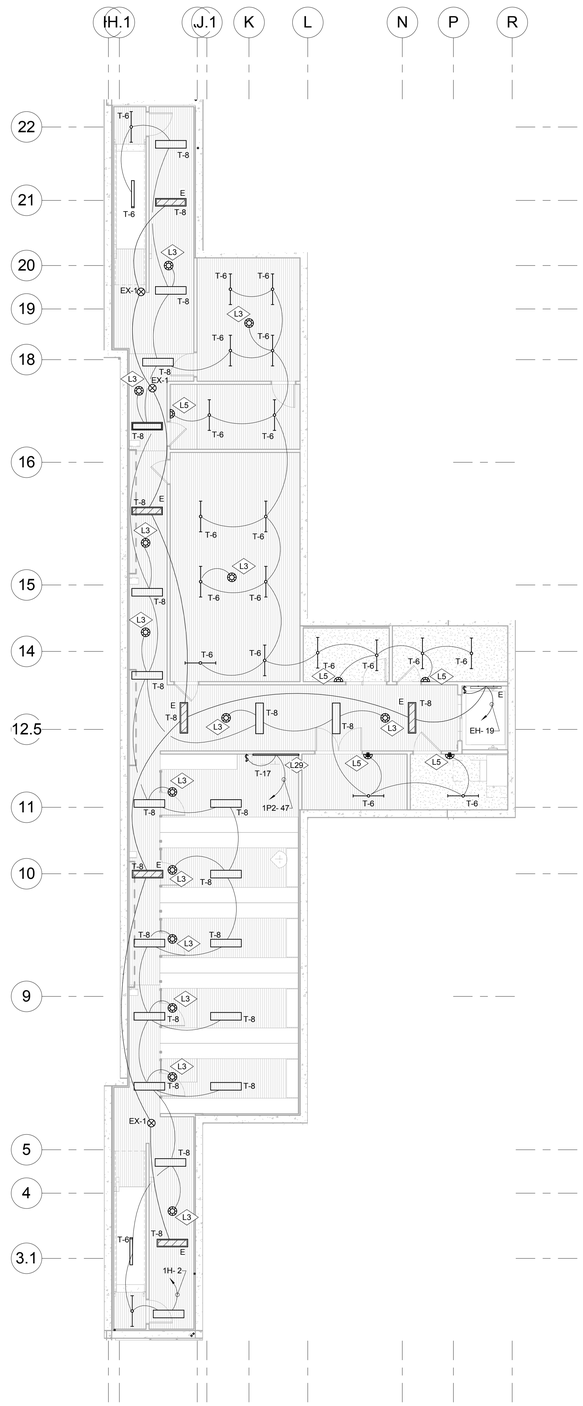
CONSTRUCTION DOCUMENTS

DOOR SECURITY DETAILS

EE1-25

## REFERENCE NOTES:

| | |
|---|---|
| L3 | FURNISH AND INSTALL A CEILING MOUNTED OCCUPANCY SENSOR IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE ROOM CONTROLLER IN THE ROOM WITH CAT5 CABLE. SEE MANUFACTURER WIRING DIAGRAMS ON SHEET EL601 FOR MORE INFORMATION. REFER TO THE LIGHTING CONTROL SYMBOLS SCHEDULE FOR MORE INFORMATION. |
| L5 | FURNISH AND INSTALL A WALL MOUNTED OCCUPANCY SENSOR IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE ROOM CONTROLLER IN THE ROOM WITH CAT5 CABLE. SEE MANUFACTURER WIRING DIAGRAMS ON SHEET EL601 FOR MORE INFORMATION. REFER TO THE LIGHTING CONTROL SYMBOLS SCHEDULE FOR MORE INFORMATION. |
| L29 | TIE UNDER CABINET LIGHTING TO THE NEAREST 120V POWER POOSIBLE. |




1 BASEMENT - LIGHTING
1/8" = 1'-0"


JACOBY ARCHITECTS

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### PROJECT

State of Utah Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building • Salt Lake City, Utah 84114 • 538-3018

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| 2014 10 09 | Schematic Design |
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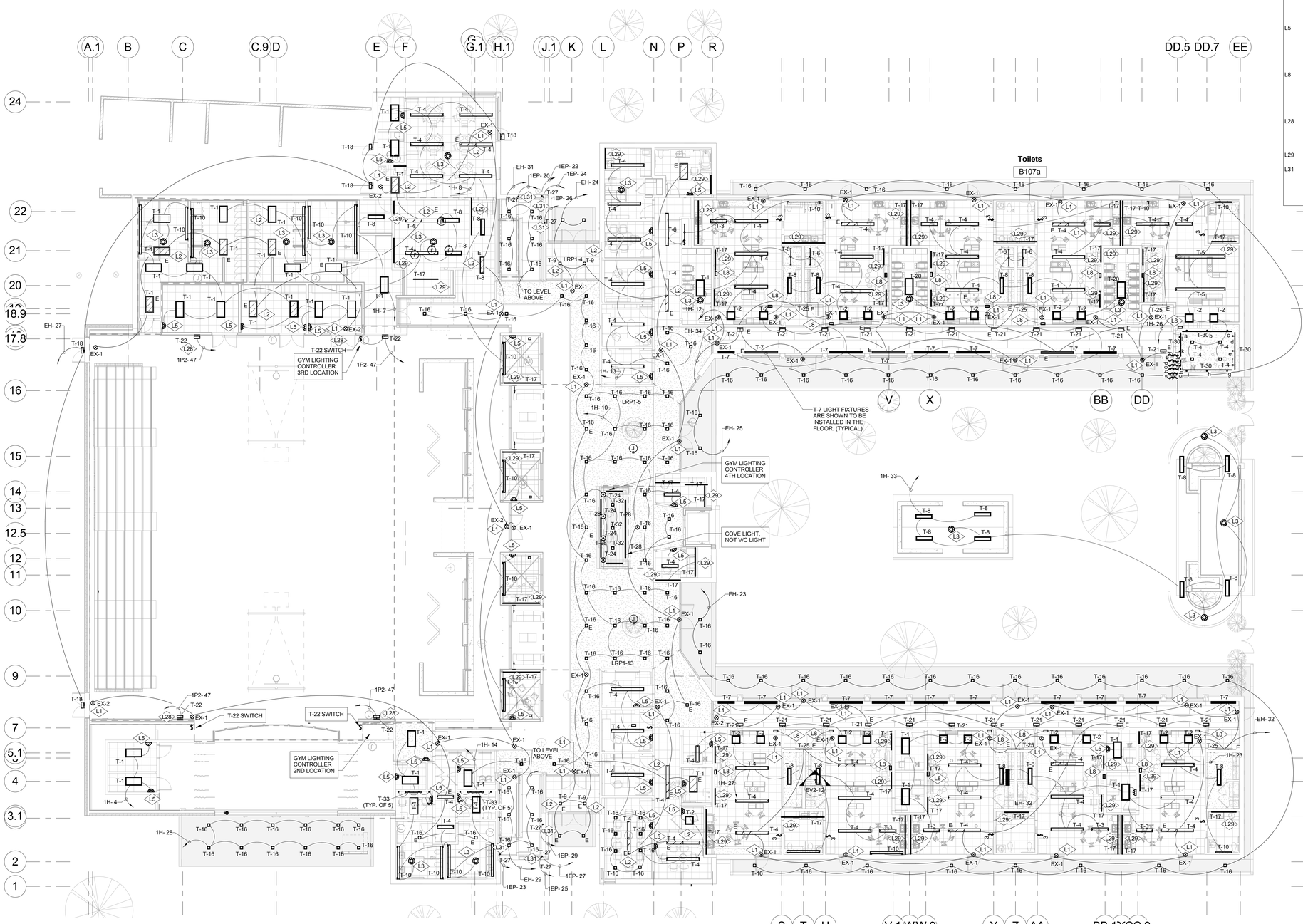
### CONSTRUCTION DOCUMENTS

BASEMENT FLOOR PLAN - LIGHTING

EL1-10




1 LEVEL 1 - LIGHTING
3/32" = 1'-0"

## REFERENCE NOTES:

| | |
|---|---|
| L1 | FURNISH AND INSTALL EXIT SIGN IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT IN THE AREA. COORDINATE ROUGH-IN LOCATION WITH ARCHITECT. |
| L2 | TIE EMERGENCY LIGHTING THROUGH A BODINE TRANSFER SWITCH (CAT.#GTD) TO THE EMERGENCY CIRCUIT SUCH THAT WHEN COMMERCIAL POWER FAILS, THE EMERGENCY LIGHTS COME ON AUTOMATICALLY REGARDLESS OF POSITION OF LIGHT SWITCHES. PROVIDE UNSWITCHED POWER TO TRANSFER SWITCH. |
| L3 | FURNISH AND INSTALL A CEILING MOUNTED OCCUPANCY SENSOR IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE ROOM CONTROLLER IN THE ROOM WITH CAT5 CABLE. SEE MANUFACTURER WIRING DIAGRAMS ON SHEET EL601 FOR MORE INFORMATION. REFER TO THE LIGHTING CONTROL SYMBOLS SCHEDULE FOR MORE INFORMATION. |
| L5 | FURNISH AND INSTALL A WALL MOUNTED OCCUPANCY SENSOR IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE ROOM CONTROLLER IN THE ROOM WITH CAT5 CABLE. SEE MANUFACTURER WIRING DIAGRAMS ON SHEET EL601 FOR MORE INFORMATION. REFER TO THE LIGHTING CONTROL SYMBOLS SCHEDULE FOR MORE INFORMATION. |
| L8 | FURNISH AND INSTALL A DIGITAL ROOM CONTROLLER IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE ROOM CONTROLLER IN THE ROOM WITH CAT5 CABLE. SEE MANUFACTURER WIRING DIAGRAMS FOR MORE INFORMATION. REFER TO THE LIGHTING CONTROL SYMBOLS SCHEDULE FOR MORE INFORMATION, SEE SHEET EE1-22. |
| L28 | FURNISH AND INSTALL LED BEACON LIGHTS ON THE WALL IN THE APPROXIMATE LOCATIONS AS SHOWN. PROVIDE 24 VDC TO THE LIGHT FIXTURES. FURNISH AND INSTALL TWO 3-WAY LIGHT SWITCHES TO OPERATE THE LIGHTS. |
| L29 | TIE UNDER CABINET LIGHTING TO THE NEAREST 120V POWER POOSIBLE. |
| L31 | FURNISH AND INSTALL FOUR 33'-4" LONG STRIP TYPE T-27 LED FIXTURES IN EACH STAIR. PROVIDE A 120V 20A. CIRCUIT TO EACH LENGTH TO FEED THE ROUND LED DRIVE. SEE SHEET AE5-81 FOR MORE INFORMATION. THE DRIVE SHALL BE INSTALLED IN THE MAIN ELECTRICAL ROOM. |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Project Number: 2014-07


### CONSULTANTS

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| Landscape: - | Landmark Design - 801.474.3300 |
| Food Service: - | Jedrziewski Designs - 801.582.9747 |

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ENAYAT ULLAH
STATE OF UTAH

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### PROJECT

State of Utah Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · (801) 538-3018

DFCM # 14190230
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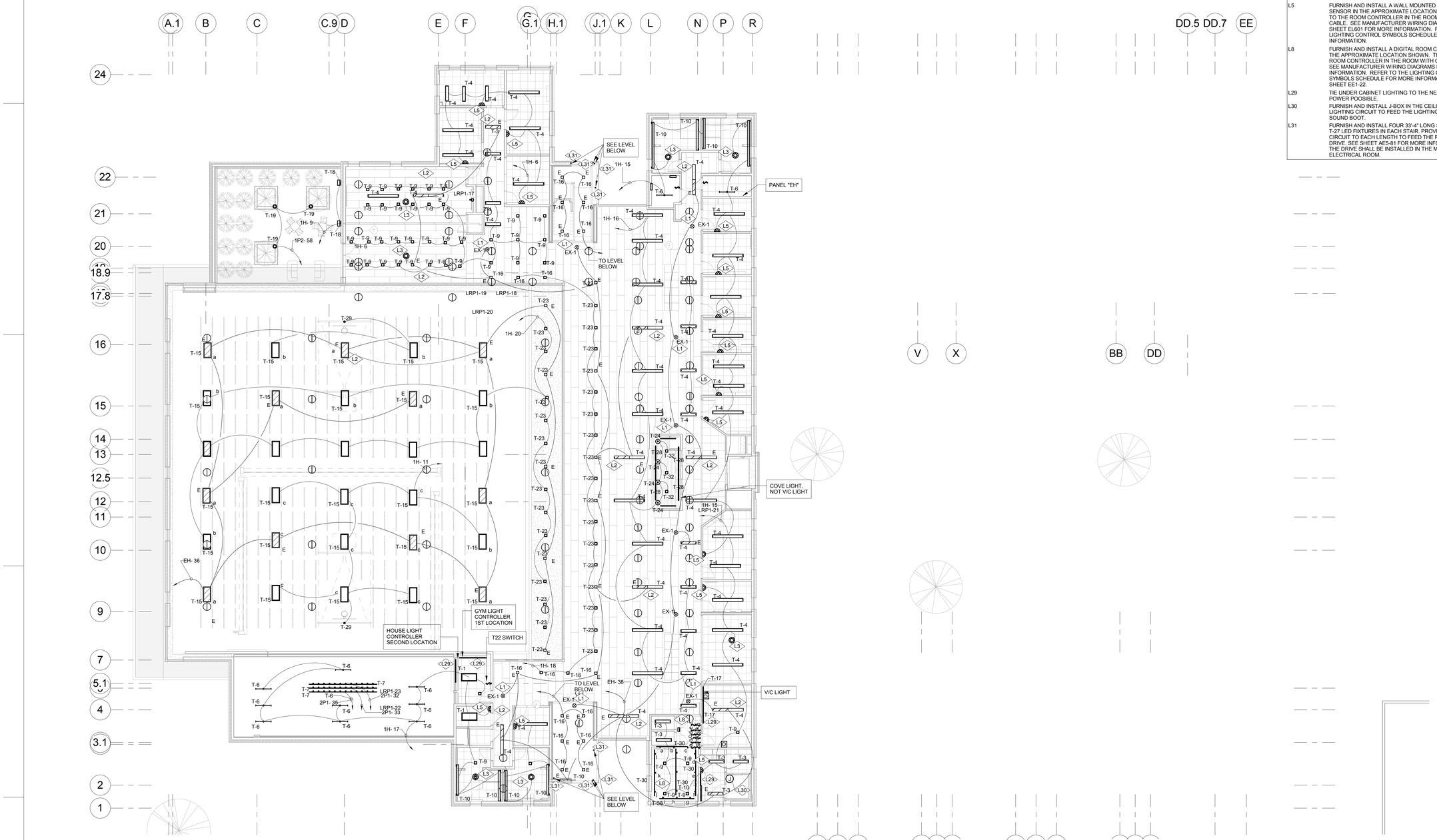
CONSTRUCTION DOCUMENTS

# LEVEL 1 FLOOR PLAN - LIGHTING

# EL1-11




1 LEVEL 2 - LIGHTING
3/32" = 1'-0"

## REFERENCE NOTES:

| | |
|---|---|
| L1 | FURNISH AND INSTALL EXIT SIGN IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT IN THE AREA. COORDINATE ROUGH-IN LOCATION WITH ARCHITECT. |
| L2 | TIE EMERGENCY LIGHTING THROUGH A BODINE TRANSFER SWITCH (CAT.#GTD) TO THE EMERGENCY CIRCUIT SUCH THAT WHEN COMMERCIAL POWER FAILS, THE EMERGENCY LIGHTS COME ON AUTOMATICALLY REGARDLESS OF POSITION OF LIGHT SWITCHES. PROVIDE UNSWITCHED POWER TO TRANSFER SWITCH. |
| L3 | FURNISH AND INSTALL A CEILING MOUNTED OCCUPANCY SENSOR IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE ROOM CONTROLLER IN THE ROOM WITH CAT5 CABLE. SEE MANUFACTURER WIRING DIAGRAMS ON SHEET EL601 FOR MORE INFORMATION. REFER TO THE LIGHTING CONTROL SYMBOLS SCHEDULE FOR MORE INFORMATION. |
| L5 | FURNISH AND INSTALL A WALL MOUNTED OCCUPANCY SENSOR IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE ROOM CONTROLLER IN THE ROOM WITH CAT5 CABLE. SEE MANUFACTURER WIRING DIAGRAMS ON SHEET EL601 FOR MORE INFORMATION. REFER TO THE LIGHTING CONTROL SYMBOLS SCHEDULE FOR MORE INFORMATION. |
| L8 | FURNISH AND INSTALL A DIGITAL ROOM CONTROLLER IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE ROOM CONTROLLER IN THE ROOM WITH CAT5 CABLE. SEE MANUFACTURER WIRING DIAGRAMS FOR MORE INFORMATION. REFER TO THE LIGHTING CONTROL SYMBOLS SCHEDULE FOR MORE INFORMATION, SEE SHEET EE1-22. |
| L29 | TIE UNDER CABINET LIGHTING TO THE NEAREST 120V POWER POOSIBLE. |
| L30 | FURNISH AND INSTALL J-BOX IN THE CEILING FOR LIGHTING CIRCUIT TO FEED THE LIGHTING SYSTEM IN SOUND BOOT. |
| L31 | FURNISH AND INSTALL FOUR 33"-4" LONG STRIP TYPE T-27 LED FIXTURES IN EACH STAIR. PROVIDE A 120V 20A. CIRCUIT TO EACH LENGTH TO FEED THE ROUND LED DRIVE. SEE SHEET AE5-81 FOR MORE INFORMATION. THE DRIVE SHALL BE INSTALLED IN THE MAIN ELECTRICAL ROOM. |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4110 State Office Building · Salt Lake City, UTAH 84114 · 538-3018

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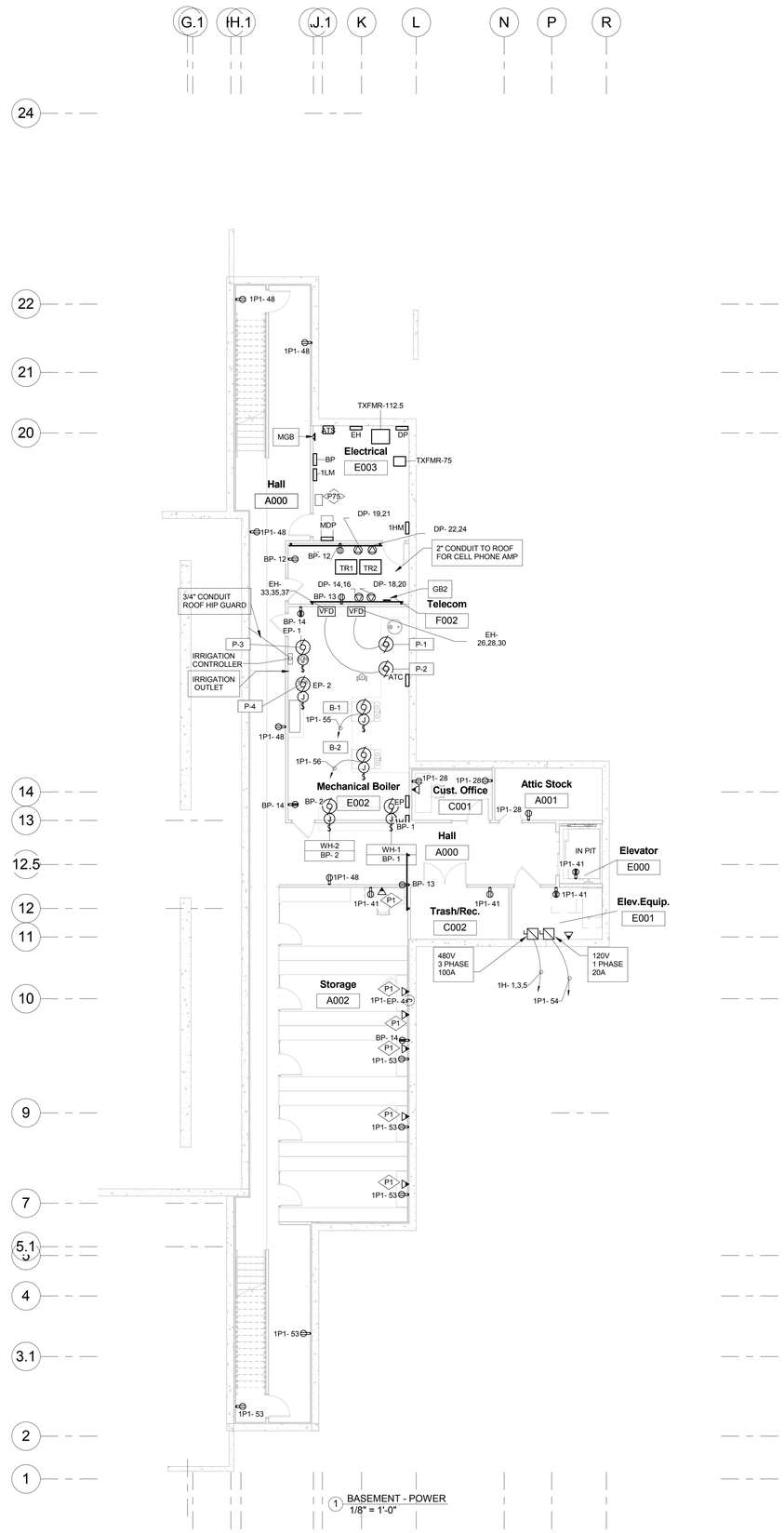
CONSTRUCTION DOCUMENTS

LEVEL 2 FLOOR PLAN - LIGHTING

EL1-12




1 BASEMENT - POWER
1/8" = 1'-0"

## REFERENCE NOTES:

P1 FURNISH AND INSTALL A 5"X5"X3" DEEP J-BOX FOR VOICE/DATA OUTLET IN THE APPROXIMATE LOCATION SHOWN. RUN A 1" CONDUIT TO THE NEAREST TELECOM ROOM. RUN A MINIMUM OF TWO CABLES AND INSTALL JACK.

P75 FURNISH AND INSTALL AN ASTRONOMICAL TIME CLOCK ON THE WALL TO CONTROL POLEMOUNTED LIGHT FIXTURES ON THE OUTSIDE OF THE BUILDING AND IN THE PARKING AREA. TIMER SHALL BE A (4) FOUR CIRCUIT SYSTEM TO BE INDEPENDENT OF EACH OTHER. LC&D Blue Box LT SERIES GRI 404LT COMPLETE WITH OUTDOOR PHOTO CELL (PCO. TO BE INSTALLED OUTSIDE THE BUILDING FACING EAST) AND A DIGITAL OVERRIDE SWITCH TO BE INSTALL NEAR THE PANEL. INSTALL THE PANEL AND WIRE THE PHOTOCELL PER MANUFACTURER RECOMENDATIONS. PROVIDE (4) FOUR CONTACTOR RELAYS TO OPERATE THE LIGHT FIXTURES AND CONTROLLED BY THE ABOVE CONTROLLER.

## IMPORTANT NOTE:

1. ALL DUPLEX AND FOURPLEX, INCLUDING GFCI OUTLETS SHALL BE TAMPER PROOF WITH THE EXCEPTION OF OFFICES, COM. ROOM, ELECTRICAL ROOM, MECHANICAL ROOM AND CUSTODIAN OFFICES.

2. REFER TO ARCHITECTURE ELEVATION FOR EXACT LOCATION OF DEVICES.

3. IN EACH CLASSROOM DUPLEX OUTLETS FOR THE COMPUTER SHALL BE PROVIDED WITH USB CHARGER.

4. IN EACH OFFICE THE OUTLET THAT ARE SHOWN NEXT TO THE DATA OUTLET SHALL BE PROVIDED WITH USB CHARGER.


JACOBY ARCHITECTS

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### CONSULTANTS

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| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
| Landscape: - | Landmark Design - 801.474.3300 |
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### PROJECT

State of Utah—Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT**
4110 State Office Building, Salt Lake City, Utah 84114 - 538-3018

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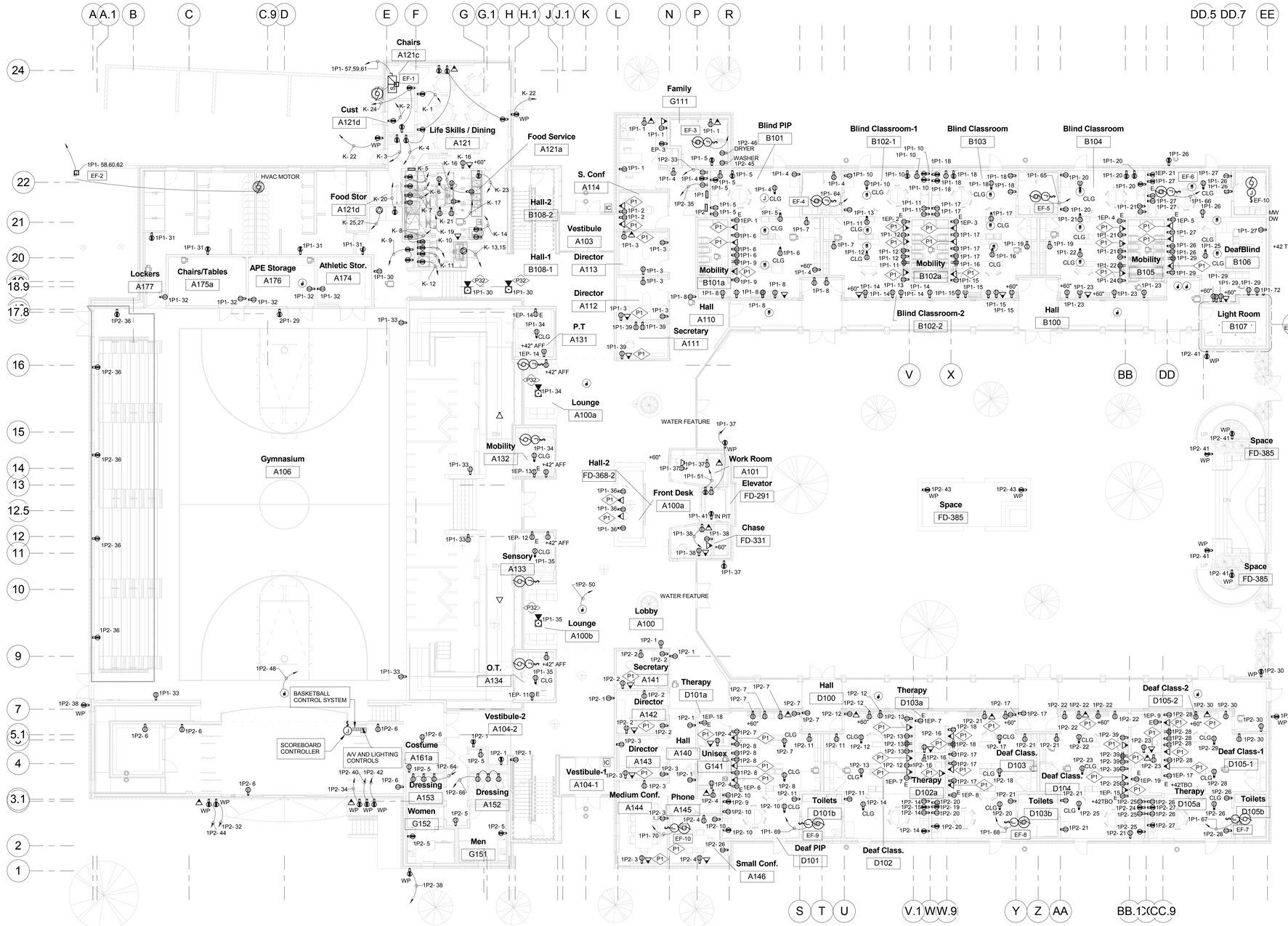
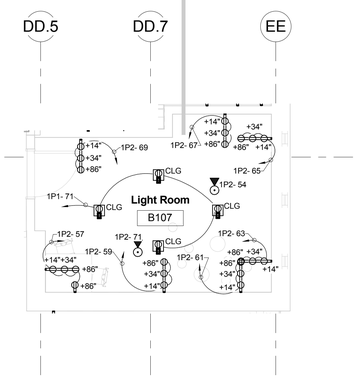
CONSTRUCTION DOCUMENTS

# BASEMENT FLOOR PLAN - POWER

# EP1-10




1 LEVEL 1 - POWER
3/32" = 1'-0"




2 ENLARGED POWER PLAN - LIGHT ROOM
B108
1/4" = 1'-0"

## REFERENCE NOTES:

| | |
|---|---|
| P1 | FURNISH AND INSTALL A 5"X5"X3" DEEP J-BOX FOR VOICE/DATA OUTLET IN THE APPROXIMATE LOCATION SHOWN. RUN A 1" CONDUIT TO THE NEAREST TELECOM ROOM. RUN A MINIMUM OF TWO CABLES AND INSTALL JACK. |
| P32 | FURNISH AND INSTALL A FLUSH FLOOR BOX (WIREMOLD CAT.# RFB4) WITH TWO DUPLEX OUTLETS AND ONE BLANK COVER PLATE FOR VOICE/DATA. RUN 1" CONDUIT FROM VOICE/DATA LOCATION TO THE NEAREST TELCOM ROOM. PROVIDE A PLASTIC BUSHING. INSERT PULL STRING AND LABEL. COORDINATE EXACT LOCATION WITH THE ARCHITECT AND OWNER PRIOR TO ROUGH IN. |

## IMPORTANT NOTE:

1. ALL DUPLEX AND FOURPLEX, INCLUDING GFCI OUTLETS SHALL BE TAMPER PROOF WITH THE EXCEPTION OF OFFICES, COM. ROOM, ELECTRICAL ROOM, MECHANICAL ROOM AND CUSTODIAN OFFICES.

2. REFER TO ARCHITECTURE ELEVATION FOR EXACT LOCATION OF DEVICES.

3. IN EACH CLASSROOM DUPLEX OUTLETS FOR THE COMPUTER SHALL BE PROVIDED WITH USB CHARGER.

4. IN EACH OFFICE THE OUTLET THAT ARE SHOWN NEXT TO THE DATA OUTLET SHALL BE PROVIDED WITH USB CHARGER.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4110 State Office Building · Salt Lake City, Utah 84114 · 801.538.3018

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| 2014 12 11 | Design Development |

CONSTRUCTION DOCUMENTS

LEVEL 1 FLOOR PLAN - POWER

EP1-11

## REFERENCE NOTES:

| | |
|---|---|
| P1 | FURNISH AND INSTALL A 5"X5"X3" DEEP J-BOX FOR VOICE/DATA OUTLET IN THE APPROXIMATE LOCATION SHOWN. RUN A 1" CONDUIT TO THE NEAREST TELECOM ROOM. RUN A MINIMUM OF TWO CABLES AND INSTALL JACK. |
| P32 | FURNISH AND INSTALL A FLUSH FLOOR BOX (WIREMOLD CAT.# RFB4) WITH TWO DUPLEX OUTLETS AND ONE BLANK COVER PLATE FOR VOICE/DATA. RUN 1" CONDUIT FROM VOICE/DATA LOCATION TO THE NEAREST TELCOM ROOM. PROVIDE A PLASTIC BUSHING. INSERT PULL STRING AND LABEL. COORDINATE EXACT LOCATION WITH THE ARCHITECT AND OWNER PRIOR TO ROUGH IN. |
| P76 | PROVIDE 120V, 20A POWER CIRCUIT TO SOUND BOOTH THROUGH J-BOX IN THE CEILING. |
| P77 | POWER FOR MOTORIZED SHADE. |

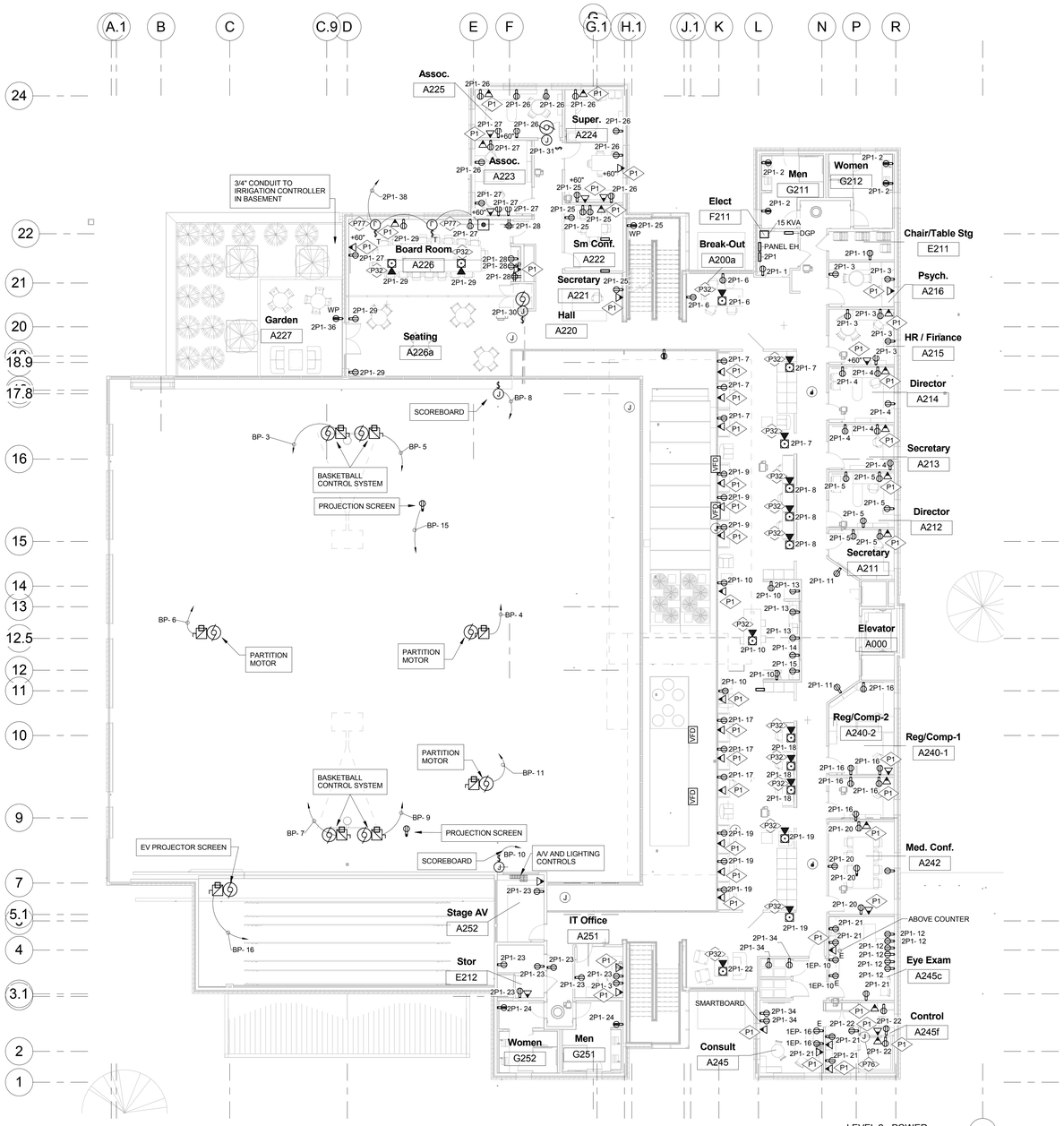
## IMPORTANT NOTE:

1. ALL DUPLEX AND FOURPLEX, INCLUDING GFCI OUTLETS SHALL BE TAMPER PROOF WITH THE EXCEPTION OF OFFICES, COM. ROOM, ELECTRICAL ROOM, MECHANICAL ROOM AND CUSTODIAN OFFICES.

2. REFER TO ARCHITECTURE ELEVATION FOR EXACT LOCATION OF DEVICES.

3. IN EACH CLASSROOM DUPLEX OUTLETS FOR THE COMPUTER SHALL BE PROVIDED WITH USB CHARGER.

4. IN EACH OFFICE THE OUTLET THAT ARE SHOWN NEXT TO THE DATA OUTLET SHALL BE PROVIDED WITH USB CHARGER.




1 LEVEL 2 - POWER
3/32" = 1'-0"

S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PROJECT

State of Utah Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, UT · 84114 · 801.538.3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

ISSUE/PHASE

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|---|---|
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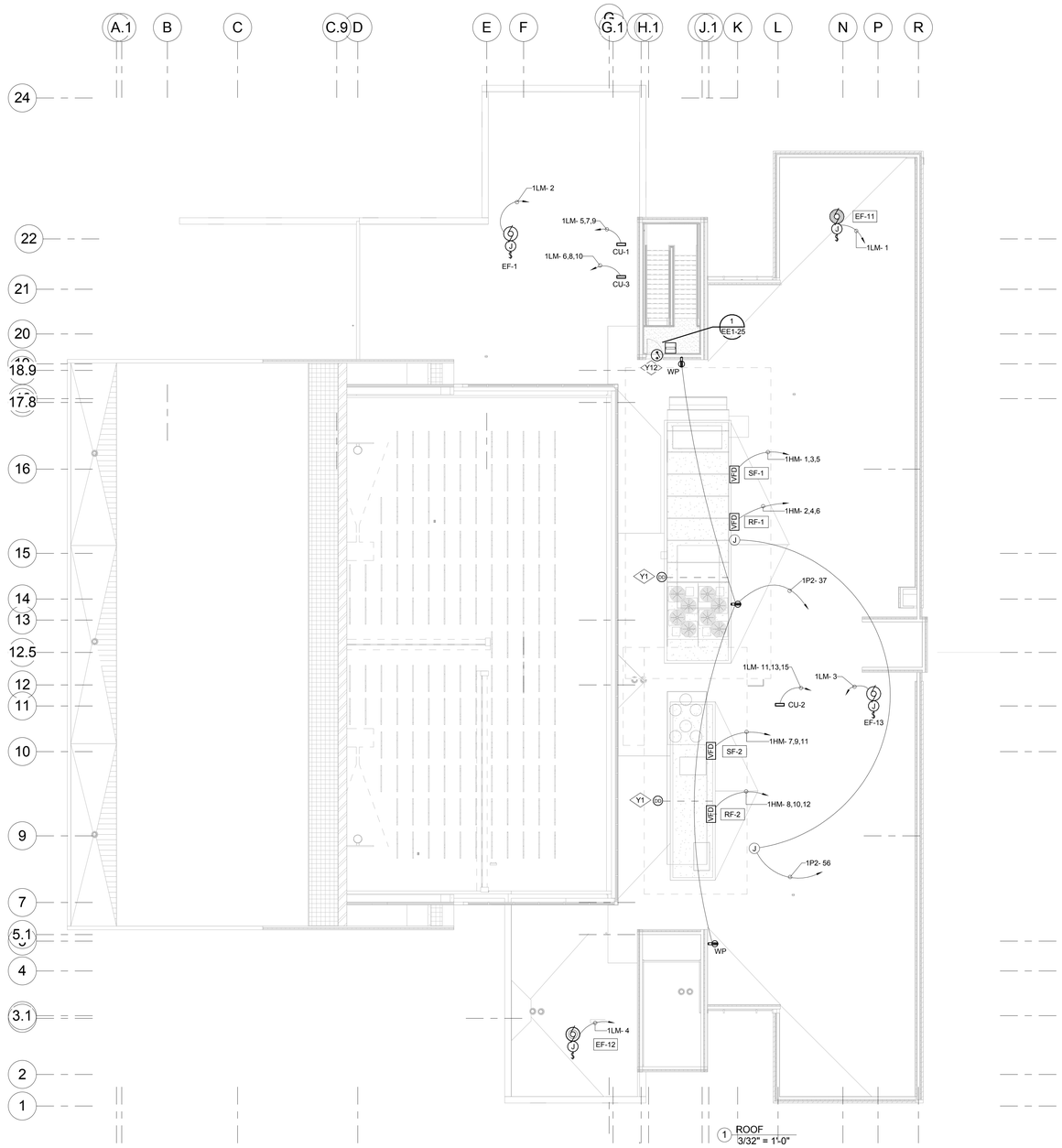
| 2014 12 11 | Design Development |

CONSTRUCTION DOCUMENTS

LEVEL 2 FLOOR PLAN - POWER

EP1-12




1 ROOF
3/32" = 1'-0"

## REFERENCE NOTES:

Y1 FURNISH AND INSTALL AN ADDRESSABLE FIRE ALARM DEVICE IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIRE ALARM CONTROL PANEL IN CLASS "A" LOOP. IN AND OUT CIRCUITS SHALL RUN IN SEPARATE CONDUITS. REFER TO THE FIRE ALARM RISER DIAGRAM FOR MORE INFORMATION.

Y12 FURNISH AND INSTALL A COMPLETE FUNCUTNAL CARD ACCESS/SECURITY SYSTEM REFER TO DOOR HARDWARE SCHEDULE FOR DEVICES TO BE FURNISHED AND INSTALLED BY DOOR HARDWARE GROUP. SECURTIY CONTRACTOR SHALL FURNISH AND INSTALL OTHER REQUIRED DEVICES FOR A COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR TO PROVIDE J-BOXES AND CONDUIT AND 120V POWER AS REQUIRED FOR A COMPETE INSTALLATION. REFER TO SECURITY DOOR DETAILS ON SHEET ---- FOR MORE INFORMATION. REFER TO DOOR HARDWARE SCHEDULE FOR TYPE AND LOCATION OF DEVICES. COORDINATE WORK WITH ARCHITECT AND DOOR HARDWARE SUPPLIER.

## IMPORTANT NOTE:

1. ALL DUPLEX AND FOURPLEX, INCLUDING GFCI OUTLETS SHALL BE TAMPER PROOF WITH THE EXCEPTION OF OFFICES, COM. ROOM, ELECTRICAL ROOM, MECHANICAL ROOM AND CUSTODIAN OFFICES.

2. REFER TO ARCHITECTURE ELEVATION FOR EXACT LOCATION OF DEVICES.

3. IN EACH CLASSROOM DUPLEX OUTLETS FOR THE COMPUTER SHALL BE PROVIDED WITH USB CHARGER.

4. IN EACH OFFICE THE OUTLET THAT ARE SHOWN NEXT TO THE DATA OUTLET SHALL BE PROVIDED WITH USB CHARGER.


JACOBY ARCHITECTS

425 South 400 East
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801 363 1434
Project Number: 2014-07


### CONSULTANTS

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| Architectural: - | Jacoby Architects, Inc. - 801.363.1434 |
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| Structural: - | TBSE Inc. - 801.298.8795 |
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| Electrical: - | ECE Consulting - 801.521.8007 |
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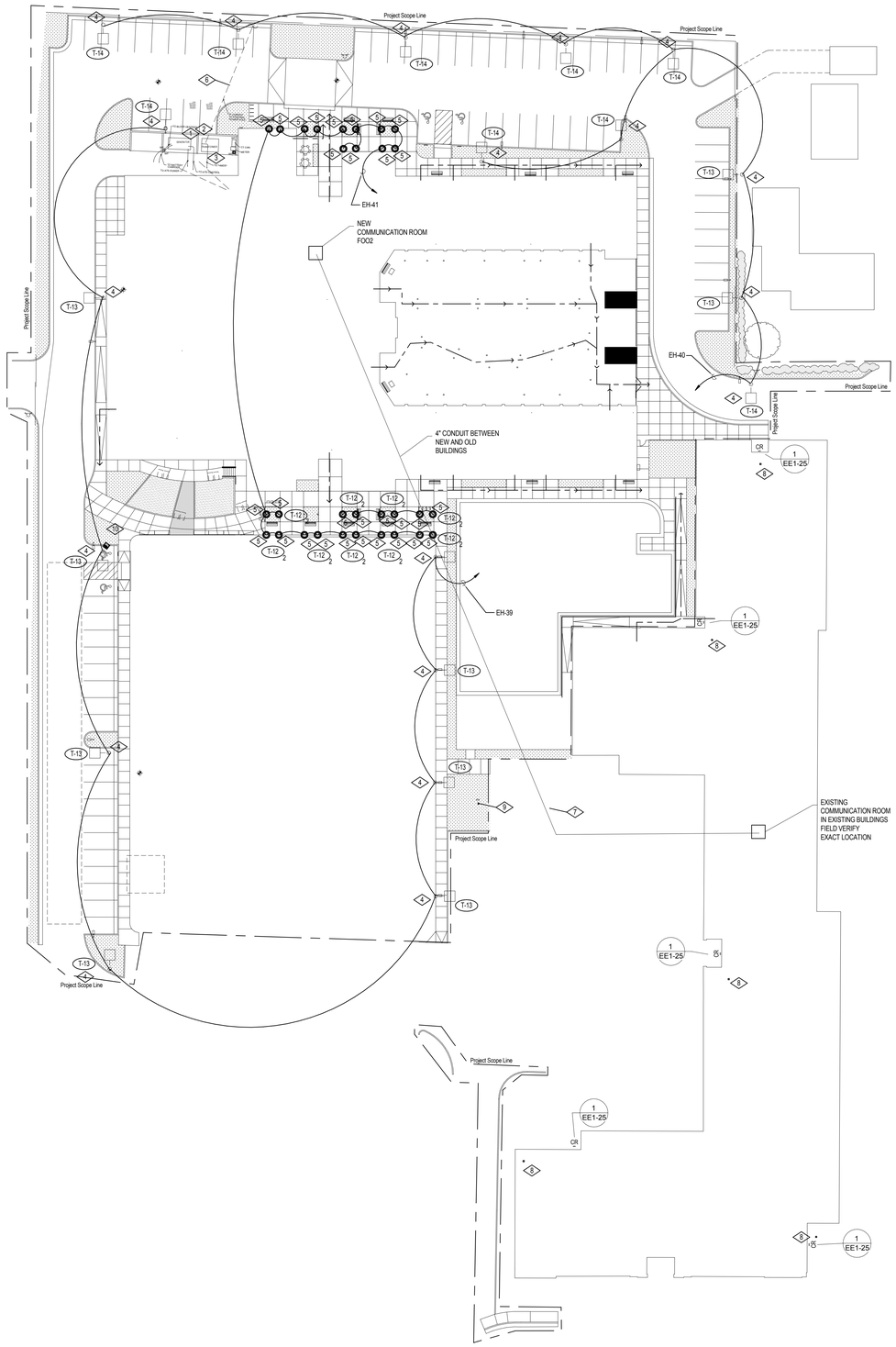
CONSTRUCTION DOCUMENTS

ROOF PLAN - POWER

# EP1-13




1 SITE PLAN - ELECTRICAL
1" = 30'-0"

## REFERENCE NOTES:

1. FURNISH AND INSTALL A NEW GENERATOR WITH WEATHER PROOF ENCLOSURE. PROVIDE CONCRETE PAD, PER MANUFACTURER'S RECOMMENDATION.
2. PROVIDE TRANSFORMER WITH CONCRETE PAD AS PER RMP REQUIREMENT.
3. FURNISH AND INSTALL METERING CABINET PER RMP REQUIREMENT.
4. FURNISH AND INSTALL POLEMOUNT LIGHT FIXTURES. PROVIDE CEMENT POLE BASE.
5. FURNISH AND INSTALL BOLLARD LIGHT FIXTURES. PROVIDE CONCRETE BASE.
6. RUN A 5" CONDUIT 48" BELOW FINISHED LEVEL TO THE EXISTING POWER POLE. COORDINATE WITH RMP. RUN RIDGE CONDUIT TO THE POLE SECURE EVERY 4'.
7. RUN (2) 4" CONDUIT FROM NEW COM ROOM TO THE EXISTING COM ROOM IN EXISTING BUILDING FOR COM SYSTEM.
8. FURNISH AND INSTALL NEW CARD ACCESS SYSTEM AT THE SPECIFIED DOORS AS SHOWN. FURNISH AND INSTALL ALL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION. THESE ARE EXISTING DOORS. CONTRACTOR SHALL HAVE PROVISION FOR INSTALLING, MAG LOCKS, DOOR POSITIONING SWITCHES, POWER SUPPLY, OVER RIDE WITCHES, FIRE ALARM SYSTEM TIE-IN, ETC. AS REQUIRED FOR A COMPLETE FUNCTION SYSTEM. THIS SYSTEM SHALL BE TIED IN (NETWORKED) TO THE NEW ACCESS SYSTEM IN THE NEW BUILDING.
9. FURNISH AND INSTALL A NEW GFCI WITH WATER PROOF COVER WHEN IN USE. IN THE APPROXIMATE LOCATION AS SHOWN. FURNISH AND INSTALL A 48" LONG CONCRETE PEDESTAL FOR THE OUTLET. ONLY 24" OF THE PEDESTALS SHALL BE EXPOSED. TIE THE NEW OUTLET TO A 20A, 120 VOLTS CIRCUIT BREAKER IN THE NEAREST PANEL. UTILIZE 2#8 AWG + 1#12 AWG GROUND IN A 1" CONDUIT.
10. FURNISH AND INSTALL NEW LED AIMABLE FLOOD LIGHT ON THE LIGHT POOL TO FLOOD THE OUTDOOR PLATFORM. THERE SHALL BE THREE LIGHT FIXTURES TO BE CONTROLLED THRU GYM AREA LIGHTING CONTROL SYSTEM. THE POLE SHALL BE RATED FOR THESE LIGHT FIXTURES.
11. RUN LIGHTING CIRCUIT THROUGH TIME CLOCK.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CONSTRUCTION DOCUMENTS

SITE PLAN - ELECTRICAL

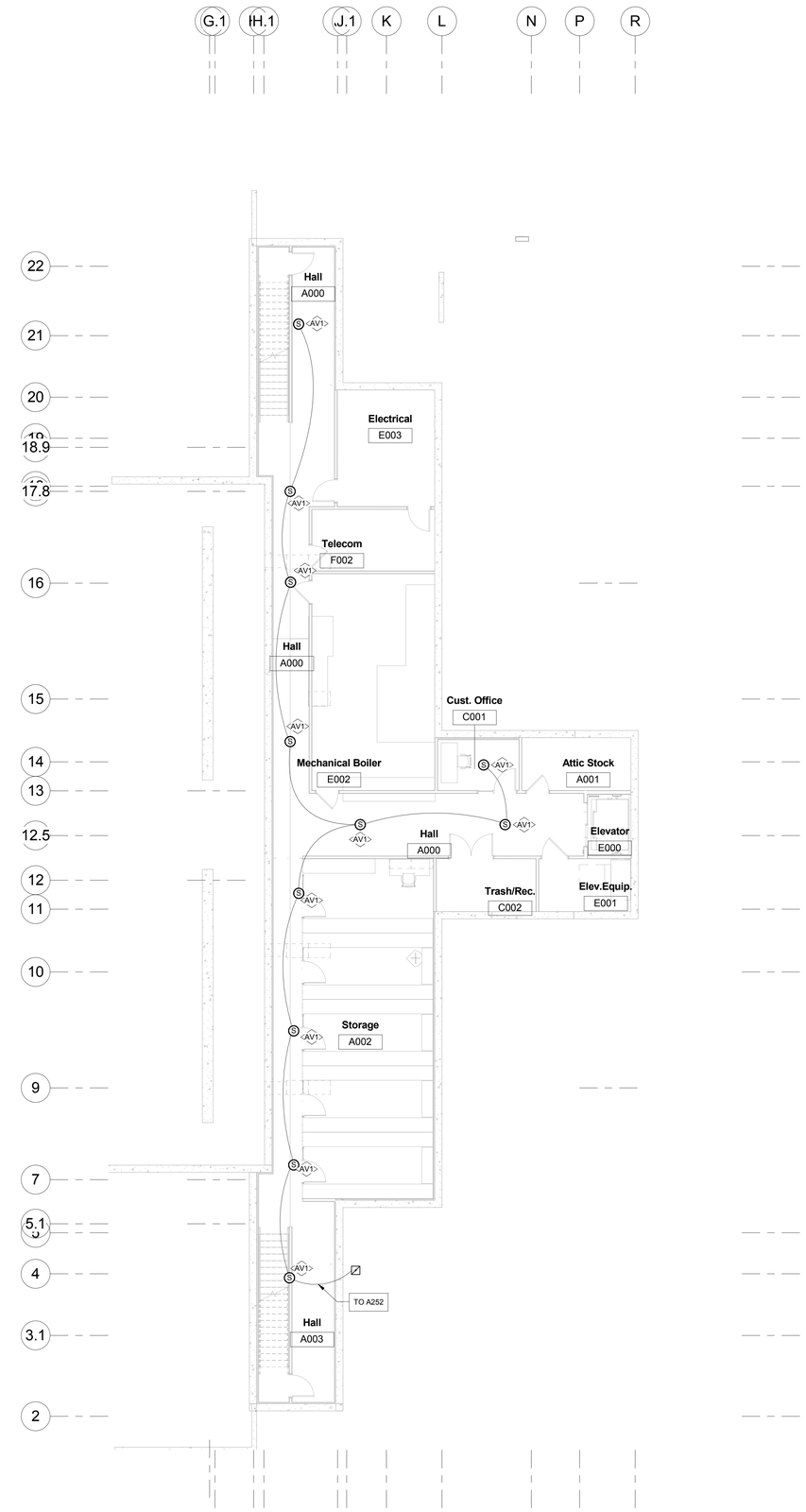
ES1-10

## AV GENERAL NOTE:

1. COORDINATE LOCATIONS OF ALL ELECTRICAL DEVICES (SPEAKERS, BOXES, T.V. OUTLETS, ETC.) WITH ARCHITECTURAL DRAWINGS.

## REFERENCE NOTES:

| | |
|---|---|
| AV1 | FURNISH AND INSTALL 1" CONDUIT BETWEEN SPEAKERS. HOME RUN CONDUIT TO EQUIPMENT CABINET IN ROOM A252. |




1 BASEMENT - AV1-10
1/8" = 1'-0"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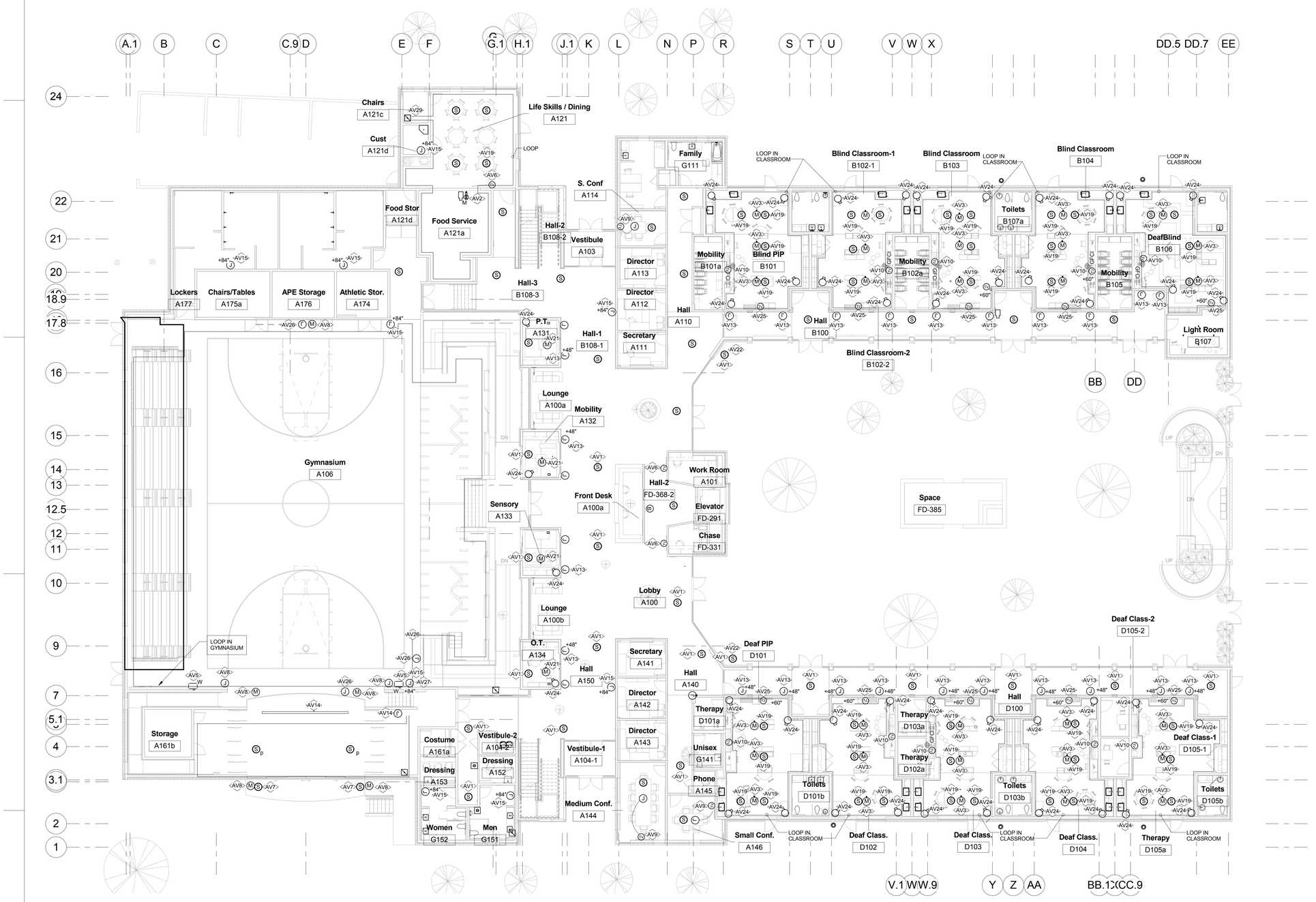
CONSTRUCTION DOCUMENTS

BASEMENT - AV

EV1-10




1 LEVEL 1 - AV SPEAKERS
3/32" = 1'-0"

## AV GENERAL NOTE:

1. COORDINATE LOCATIONS OF ALL ELECTRICAL DEVICES (SPEAKERS, BOXES, T.V. OUTLETS, ETC.) WITH ARCHITECTURAL DRAWINGS.

## REFERENCE NOTES:

| | |
|---|---|
| AV1 | FURNISH AND INSTALL 1" CONDUIT BETWEEN SPEAKERS, HOME RUN CONDUIT TO EQUIPMENT CABINET IN ROOM A252. |
| AV2 | FURNISH AND INSTALL A 5"x5"x3" DEEP JUNCTION BOX ON CEILING. INSTALL A DUPLEX TVSS OUTLET ADJACENT TO JUNCTION BOX. INSTALL A 1" CONDUIT FROM JUNCTION BOX TO LCD BACK BOX. |
| AV3 | FURNISH AND INSTALL 3" DEEP SINGLE GANG BOXES ON CEILING. LOOP 1" CONDUIT BETWEEN BOXES. RUN A 1" CONDUIT FROM BOX NEAREST HALLWAY TO BOX ADJACENT TO WINDOW IN HALLWAY (SEE NOTE AV-13). RUN A 1" CONDUIT FROM BOX NEAREST EXTERIOR TO TV/MONITOR BACKBOX. |
| AV5 | INSTALL A TVSS DUPLEX OUTLET ON WALL AT TOP OF PROSENIUM OPENING FOR ULTRA-SHORT THROW PROJECTOR. FURNISH AND INSTALL A 5"X5"X3" DEEP BOX ADJACENT TO OUTLET. RUN A 1" CONDUIT BETWEEN BOXES. RUN A 1" CONDUIT FROM EAST JUNCTION BOX TO EQUIPMENT CABINET. ROOM A252. |
| AV6 | FURNISH AND INSTALL 12"X12"X4" DEEP TV/MONITOR BACKBOX IN THE APPROXIMATE LOCATION SHOWN. INSTALL A TVSS DUPLEX OUTLET AND VOICE/DATA JACKS IN SEPARATE SINGLE GANG BOXES INSIDE THE BACKBOX FACING INTO THE BOX. RUN A 1" CONDUIT FROM JUNCTION BOX TO NEAREST TELECOM ROOM. INSERT PULLSTRING AND LABEL. INSTALL A 2" CONDUIT FROM BACKBOX TO A 5"X5"X3" J-BOX BELOW TV. COORDINATE HEIGHT WITH ARCHITECTURAL DRAWINGS. |
| AV7 | STUB TWO 1" CONDUITS ON HIGH CORNERS OF CANOPY OVER OUTDOOR PERFORMANCE SPACE. HOME RUN CONDUITS TO EQUIPMENT CABINET IN ROOM A252. |
| AV8 | FURNISH AND INSTALL A 3" DEEP DOUBLE GANG BOX AT ELECTRICAL OUTLET HEIGHT. RUN A 1" CONDUIT FROM BOX TO EQUIPMENT CABINETIN ROOM A252. |
| AV9 | FURNISH AND INSTALL A 12"X12"X4" DEEP TV/MONITOR BACKBOX IN LOCATION SHOWN. INSTALL A TVSS DUPLEX OUTLET IN A SEPARATE SINGLE GANG BOX INSIDE THE BACKBOX FACING INTO THE BOX. RUN A 1" CONDUIT FROM BACKBOX TO FLOOR BOX, SEE P32, SHEET EP1-12. RUN A 1" CONDUIT FROM BACKBOX TO NEAREST TELECOM ROOM. |
| AV10 | FURNISH AND INSTALL A 12"X12"X4" DEEP TV/MONITOR BACKBOX IN LOCATION SHOWN. COORDINATE HEIGHT WITH ARCHITECT. INSTALL A TVSS DUPLEX OUTLET IN A SEPARATE SINGLE GANG BOX INSIDE THE BACKBOX FACING INTO THE BOX. RUN A 2" CONDUIT FROM BACKBOX TO INSTRUCTOR STATION. STUB CONDUIT WITH PLASTIC BUSHING. RUN A 1" CONDUIT TO 8"X8" BOX MOUNTED BEHIND MILLWORK ABOVE TV. RUN A 1" CONDUIT FROM 8"X8" BOX TO A SINGLE GANG BOX AT FLOOR LEVEL FOR LOOP. RUN A 1" CONDUIT FROM 8"X8" BOX TO SINGLE GANG BOX CENTERED IN CEILING. RUN A 1" CONDUIT FROM 8"X" BOX TO NEAREST TELECOM ROOM. PROVIDE A QUAD OUTLET ADJACENT TO 8"X8" BOX. SEE DETAIL. SEE CLASSROOM CONDUIT DETAIL A" 2, SHEET EV2-12. |
| AV13 | FURNISH AND INSTALL A 4" DEEP 3-GANG BOX WITH A 2-GANG MUD RING ADJACENT TO WINDOW AT ELECTRICAL SWITCH HEIGHT. RUN A 1" CONDUIT FROM 3-GANG BOX TO A DOUBLE GANG BOX WITH SINGLE GANG MUD RING ON OPPOSITE SIDE OF WINDOW AT SWITCH HEIGHT. |
| AV14 | INSTALL PROJECTION SCREEN BEHIND PROSCENIUM OPENING. PROVIDE POWER TO SCREEN MOTOR AND RUN A 1" CONDUIT FROM SCREEN MOTOR TO SWITCH ON WALL AND A 1" CONDUIT TO CABINET IN A252. |
| AV15 | FURNISH AND INSTALL A 5"X5"X3" DEEP J-BOX AT 7' ABOVE FINISHED FLOOR FOR A/V PAGING VOICE/DATA OUTLET. RUN 1" CONDUIT TO THE NEAREST TELECOM ROOM. INSERT PULL STRING AND LABEL. |
| AV17 | FURNISH AND INSTALL A 3" DEEP DOUBLE GANG BOX AT ELECTRICAL OUTLET HEIGHT. RUN A 1" CONDUIT FROM BOX TO TV/MONITOR ON OPPOSITE WALL. |
| AV19 | RECESS CLASSROOM SPEAKERS IN CEILING. LOOP BETWEEN SPEAKER AND HOME RUN TO SINGLE GANG BOX CENTERED IN CEILING. SEE NOTE AV-10. |
| AV21 | FURNISH AND INSTALL A 3" DEEP SINGLE GANG BOX ON CEILING. INSTALL A DUPLEX OUTLET ADJACENT TO BOX. RUN A 1" CONDUIT FROM BOX TO 3-GANG BOX ADJACENT TO WINDOW. SEE NOTE AV-13. |
| AV22 | SURFACE MOUNT SPEAKER ON CEILING. |
| AV24 | FURNISH AND INSTALL OBSERVATION CAMERAS. RUN A 1" CONDUIT TO NEAREST TELECOM ROOM. |
| AV25 | FURNISH AND INSTALL A 12"X12"X4" DEEP TV/MONITOR BACKBOX IN THE LOCATION SHOWN. INSTALL A TVSS DUPLEX OUTLET IN A SEPARATE SINGLE GANG BOX INSIDE THE BACKBOX FACING INTO THE BOX. RUN A 1" CONDUIT FROM THE BACKBOX TO THE NEAREST TELECOM ROOM. |
| AV26 | FURNISH AND INSTALL A 3-GANG BOX WITH DOUBLE GANG MUD RING AT ELECTRICAL OUTLET HEIGHT. RUN A 1" CONDUIT FROM BOX TO EQUIPMENT CABINET IN ROOM A252. |
| AV27 | PROVIDE A 1-1/2" CONDUIT FROM SINGLE GANG BOX AT FLOOR LEVEL, TO EQUIPMENT CABINET IN A252 COORDINATE WITH AV INTERGRATOR. |
| AV29 | INSTALL WALL MOUNT EQUIPMENT CABINET HIGH ON WALL. COORDINATE HEIGHT WITH ARCHITECT. PROVIDE ONE DEDICATED 20A CIRCUIT INSIDE CABINET. RUN A 1" CONDUIT FROM CABINET TO FLAT PANEL DISPLAY. |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ENAYAT ULLAH
STATE OF UTAH


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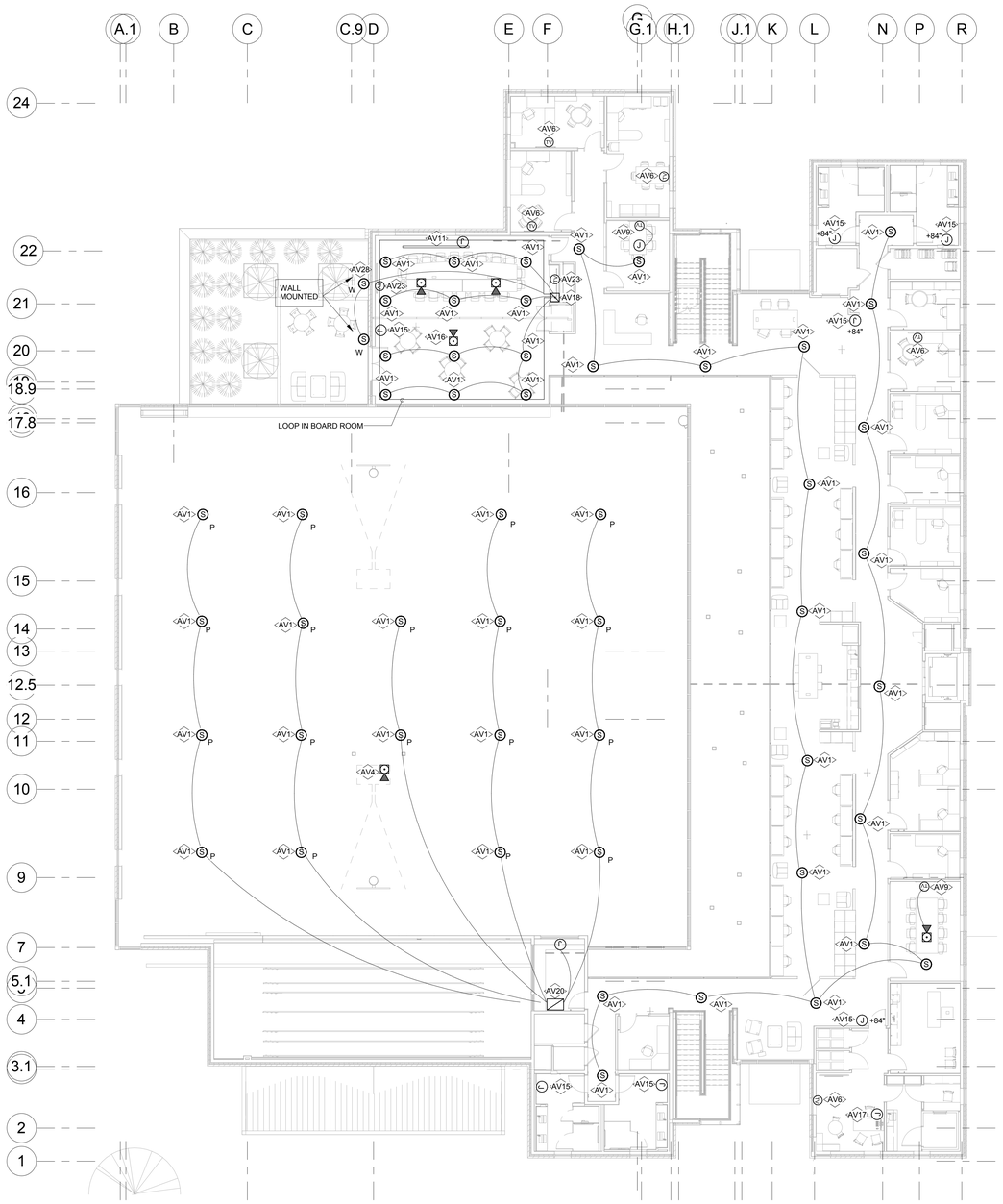
CONSTRUCTION DOCUMENTS

FIRST LEVEL - AV

EV1-11




1 LEVEL 2 - AV SPEAKERS
3/32" = 1'-0"

## AV GENERAL NOTE:

1. COORDINATE LOCATIONS OF ALL ELECTRICAL DEVICES (SPEAKERS, BOXES, T.V. OUTLETS, ETC.) WITH ARCHITECTURAL DRAWINGS.

## REFERENCE NOTES:

| | |
|---|---|
| AV1 | FURNISH AND INSTALL 1" CONDUIT BETWEEN SPEAKERS. HOME RUN CONDUIT TO EQUIPMENT CABINET IN ROOM A252. |
| AV4 | INSTALL A TVSS DUPLEX OUTLET ON CEILING. FURNISH AND INSTALL A 5"X5"X3" DEEP JUNCTION BOX FOR PROJECTOR AND CAMERA. RUN A 1" CONDUIT FROM JUNCTION BOX TO EQUIPMENT CABINET. |
| AV6 | FURNISH AND INSTALL 12"X12"X4" DEEP TV/MONITOR BACKBOX IN THE APPROXIMATE LOCATION SHOWN. INSTALL A TVSS DUPLEX OUTLET AND VOICE/DATA JACKS IN SEPARATE SINGLE GANG BOXES INSIDE THE BACKBOX FACING INTO THE BOX. RUN A 1" CONDUIT FROM JUNCTION BOX TO NEARST TELECOM ROOM. INSERT PULLSTRING AND LABEL. INSTALL A 2" CONDUIT FROM BACKBOX TO A 5"X5"X3" J-BOX BELOW TV. COORDINATE HEIGHT WITH ARCHITECTURAL DRAWINGS. |
| AV9 | FURNISH AND INSTALL A 12"X12"X4" DEEP TV/MONITOR BACKBOX IN LOCATION SHOWN. INSTALL A TVSS DUPLEX OUTLET IN A SEPARATE SINGLE GANG BOX INSIDE THE BACKBOX FACING INTO THE BOX. RUN A 1" CONDUIT FROM BACKBOX TO FLOOR BOX, SEE P32 SHEET EP1-12. RUN A 1" CONDUIT FROM BACKBOX TO NEAREST TELECOM ROOM. |
| AV11 | PROVIDE POWER FOR MOTORIZED PROJECTION SCREEN. RUN A 1" CONDUIT FROM SCREEN MOTOR TO BACKBOX BEHIND MILLWORK. |
| AV15 | FURNISH AND INSTALL A 5"X5"X3" DEEP J-BOX AT 7" ABOVE FINISHED FLOOR FOR A/V PAGING VOICE/DATA OUTLET. RUN 1" CONDUIT TO THE NEAREST TELECOM ROOM. INSERT PULL STRING AND LABEL. |
| AV16 | INSTALL A TVSS DUPLEX OUTLET ON CEILING. FURNISH AND INSTALL 5"X5"X3" DEEP JUNCTION BOX FOR PROJECTOR. RUN A 1" CONDUIT FROM JUNCTION BOX TO BACKBOX BEHIND MILLWORK. |
| AV17 | FURNISH AND INSTALL A 3" DEEP DOUBLE GANG BOX AT ELECTRICAL OUTLET HEIGHT. INSTALL A TVSS OUTLET INSIDE BOX. CUT MILLWORK TO PROVIDE ACCESS TO BACKBOX. RUN 1" CONDUIT TO (2) TWO TV'S AND PROJECTOR BACKBOXES AND 1-1/2" CONDUIT TO BOTH FLOOR BOXES. STUB (2) TWO 1" CONDUITS TO CEILING. RUN IT TO THE NEAREST TELECOM ROOM. |
| AV20 | PROVIDE AND INSTALL EQUIPMENT CABINET IN STAGE AV ROOM A252. PROVIDE FOUR DEDICATED 20 AMP CIRCUITS IN CABINET. STUB TWO 2" CONDUITS TO CEILING. RUN ON 1" CONDUIT TO SINGLE GANG BOX BELOW COUNTER. |
| AV23 | FURNISH AND INSTALL A 12"X12"X4" DEEP TV/MONITOR BACKBOX IN LOCATION SHOWN. INSTALL A TCSS DUPLEX OUTLET IN A SEPARATE SINGLE GANG BOX INSIDE THE BACKBOX, FACING INTO THE BOX. RUN A 1" CONDUIT FROM BACKBOX TO BACKBOX BEHIND MILLWORK. |
| AV28 | RECESS SINGLE GANG BOX IN WALL 10' AFF. LOOPBETWEEN BOXES AND HOME RUN TO CABINET IN BOARDROOM MILLWORK. |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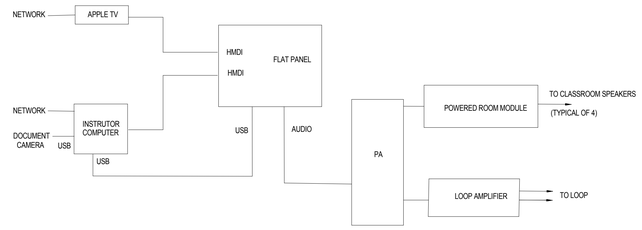
CONSTRUCTION DOCUMENTS

SECOND LEVEL - AV

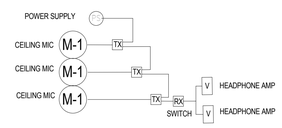
EV1-12




CLASSROOM MEDIA
SCALE: N.T.S.

| | CLASSROOM A/V (TYPICAL OF 10) | | | |
|---|---|---|---|---|
| Symbol | Qty | Manufacturer | Model | Description |
| | 0 | by owner | | Instructor Computer |
| | A/R | | | USB/HDMI interface cables |
| | 1 | Hovercam | Solo 8 | Document camera |
| | 1 | Apple | Apple TV | Presentation gateway W/ IR Extender |
| TV-1 | 1 | Smart | E70 | 70" Interactive LCD Display w/ spdif to analog converter |
| | 1 | Chief | LSMU | Locking Flat Panel Mount |
| PA | 1 | Listen | LPT-S7 | Classroom PA w/ microphone & speakers |
| | A / R | Listen | MLD5/MLD7/MLD9 | MultiLoop driver (CPCI) |
| | 1 | Listen | FBI.8 | Flat Insulated Copper Cable (CPCI) |
| | 2 | Listen | LP-IL-1 | Hearing Loop Receiver |

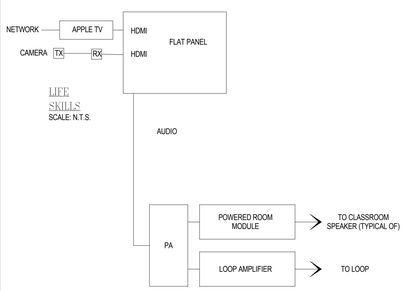
* (CPCI) = Contractor provided, Contractor Installed.




SCALE: N.T.S.
CLASSROOM OBSERVATION

| | Classroom Observation (typical of 10) | | | |
|---|---|---|---|---|
| Symbol | Qty | Manufacturer | Model | Description |
| | 3 | Shure | MX202W/C | Ceiling microphone, white, cardioid |
| M-1 | 3 | RDL | D-TPS1A | Microphone input, twisted pair sender |
| | 1 | RDL | D-TPRX3A | 3-Input selector, twisted pair receiver |
| V | 2 | RDL | D-SH1M | Headphone Amplifier |
| | 1 | RDL | PS-24AS | Power supply |
| | 2 | Sennheiser | HD219 | Headphones |
| | 4 | Avigilon | 2.0-H3-DI-IR | 2.0 MP Dome Camera (CPCI) |

* (CPCI) = Contractor provided, Contractor Installed.




LIFE SKILLS
SCALE: N.T.S.

| | | Life Skills | | |
|---|---|---|---|---|
| Symbol | Qty | Manufacturer | Model | Description |
| | 1 | Crestron | HD-EXT3 | HDMI extender |
| | 1 | Middle Atlantic | DWR-10-22 w/ VFD | Equipment Cabinet with Vented Front door |
| | 1 | Apple | Apple TV | Presentation gateway W /IR Extender |
| vc | 1 | Panasonic | AW-HE40HW | HD camera w/ PoE+ |
| TV-4 | 1 | Sharp | PN-E603 | 60" Flat Panel Display |
| | 1 | Chief | PDRUB | Swing Arm flat panel mount |
| PA | 1 | Listen | LPT-S7 | Classroom PA w/ microphone & speakers |
| | A/R | Listen | MLD5/MLD7/MLD9 | MultiLoop driver (CPCI) |
| | 1 | Listen | FBI.8 | Flat Insulated Copper Cable (CPCI) |
| | 4 | Listen | | Hearing Loop Receiver |

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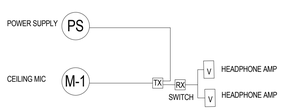
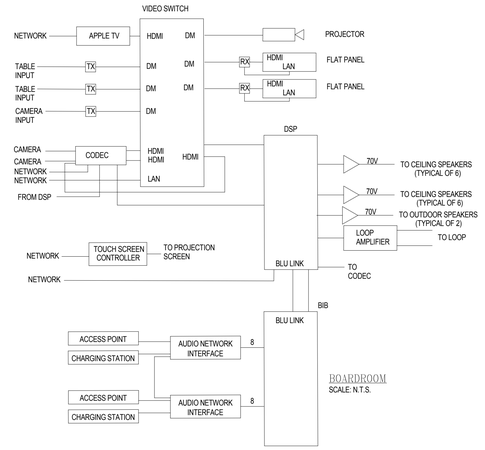



| | Clubhouse Observation (typical OF 4) | | | |
|---|---|---|---|---|
| Symbol | Qty | Manufacturer | Model | Description |
| | 1 | Shure | MX202W/C | Ceiling microphone, white, cardioid |
| M-1 | 1 | RDL | D-TPS1A | Microphone input, twisted pair sender |
| | 1 | RDL | D-TPRX3A | 3-Input Selector, Twisted Pair Receiver |
| V | 2 | RDL | D-SHIM | Headphone Amplifier |
| | 1 | RDL | PS-24AS | Power supply |
| | 2 | Sennheiser | HD219 | Headphones |
| | 1 | Avigilon | 2.0 - H3 - DI - IR | 2.0 MP Dome Camera (CPCI) |

* (CPCI) = Contractor provided, Contractor Installed.




BOARDROOM
SCALE: N.T.S.

| | | Board Room | | |
|---|---|---|---|---|
| Symbol | Qty | Manufacturer | Model | Description |
| | 1 | Middle Atlantic | SRSR-2-xx | Slide-out equipment cabinet |
| | 1 | Crestron | FT-TSC600 w/ FTA-PWR-102 | Recessed table box touch screen controller |
| | | | | with power & VGA / HDMI cables |
| | 1 | Crestron | FT-600 w/ FTA-PWR-102 | Recessed table box with power & |
| | | | | VGA / HDMI cables |
| | 1 | Apple | Apple TV | Presentation gateway W/ IR Extender |
| vc | 1 | Panasonic | AW-HE40HW | HD camera w/ PoE+ |
| | 1 | Crestron | C2N-10 | Expansion Module |
| | 2 | Crestron | DM-TX-201-C | DigitalMedia transmitter (Table) |
| | 1 | Crestron | DM-TX1-1G | DigitalMedia transmitter (Camera) |
| | 1 | Crestron | DM-MD8x8 | 8x8 DigitalMedia switcher |
| | 3 | Crestron | DMC-4K-C | DM input card |
| | 3 | Crestron | DMC-4K-HD | HDMI input card |
| | A/R | Crestron | DMCO | DigitalMedia output card |
| | 2 | Crestron | DM-RMC-4K-100-C | DigitalMedia receiver |
| | 1 | Sony | VPL-FH265 | Projector, 6000 lumen, with lens |
| | 1 | Chief | | locking projector mount |
| | 1 | Dalite | Tensioned Advantage Electrol | 65"x116", 133" diagonal, 16x9 aspect |
| | | | | HD progressive .9 screen material |
| | | | | Low voltage control |
| TV-3 | 2 | Sharp | PN-E703 | Flat panel display, 70" |
| | 2 | Chief | PDRUB | Swing arm flat panel mount |
| | 2 | Shure | MXWS8 | Eight Channel Wireless Microphone System |
| | 2 | Shure | MXWNCS8 | Networking Charging Station |
| | 1 | Shure | MXW2 | Handheld Transmitter |
| | 1 | Shure | MXW1 | Body Pack Transmitter w/ Lapel Microphone |
| | 12 | Shure | MXW8 | Gooseneck Base Transmitter |
| | 1 | BSS Soundweb London | BLU-BIB | Break-in box audio expander |
| | 1 | BSS Soundweb London | BLU-103 | DSP with AEC & VOIP |
| | 1 | Crown | DCi 4 300 | 4- channel amplifier, 300 Watt/ch @ 70V |
| | 12 | Soundtube | CM52-BGM | 6" Speaker |
| | 2 | Soundtube | 5M500i-11-wx | Outdoor Speaker |
| | 2 | Crestron | HD-EXT3-C | HDMI extender (Camera) |
| | 2 | Cisco | Precision 60 | HD camera |
| | 1 | Cisco | SX80 | Video conferencing codec |
| | A / R | Listen | MLD5/MLD7/MLD9 | MultiLoop driver (CPCI) |
| | 1 | Listen | FBI.8 | Flat InsulatedCopper Cable (CPCI) |
| | 4 | Listen | LP-IL-1 | Hearing Loop Receiver |
| | | | | |

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2. PROGRAM CONTROLLERS FOR SIMPLE USER OPERATION. COORDINATE EXACT NEEDS WITH OWNER.
3. COORDINATE EXACT NETWORK REQUIREMENTS WITH USDB IT PERSONNEL.
4. ALL AV INFRASTRUCTURE IS CONTRACTOR PROVIDED EXCEPT AS NOTED. EQUIPMENT AND INSTALLATION LABOR ASSOCIATED WITH THE INFORMATION ON THIS PAGE IS OWNER PROVIDED AND INSTALLED. IT IS INCLUDED FOR REFERENCE ONLY. SEE SPECIFICATIONS, SECTION 011000 SUMMARY FOR DETAILED DIVISION OF WORK.


JACOBY ARCHITECTS

425 South 400 East
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Utah 84111
801 363 1434
Project Number: 2014-07


CONSULTANTS

| | |
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| Structural: - | TBSE Inc. - 801.298.8795 |
| Mechanical: - | WHW Engineering - 801.466.4021 |
| Electrical: - | ECE Consulting - 801.521.8007 |
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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · (801) 538-3018

DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

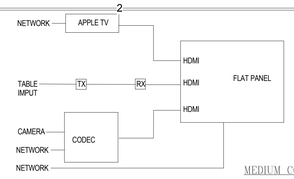
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |

CONSTRUCTION DOCUMENTS

AV TYPICAL DIAGRAMS

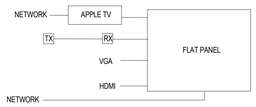
EV2-10




MEDIUM CONFERENCE ROOM
SCALE: N.T.S.

| | | Medium Conference (Typical of 2) | | |
|---|---|---|---|---|
| Symbol | Qty | Manufacturer | Model | Description |
| | | | | |
| | 1 | Crestron | FT-600B w/ FTA-PWR-102 | Recessed table box with Power & VGA / HDMI cables |
| | 1 | Crestron | DM-TX-201-C | Digital Media Transmitter |
| | 1 | Crestron | DM-RMC-4K-100-C | Digital Media Receiver |
| | 1 | Apple | Apple TV | Presentation gateway W/ IR Extender |
| TV-1 | 1 | Smart | E70 | 70" Interactive Flat Panel Display |
| | 1 | Chief | LSMU | Locking Flat panel mount |
| | 1 | Shure | MX393/TRI | Conferencing Microphone |
| | 1 | Cisco | Precision 60 | HD camera |
| | 1 | Cisco | SX80 | Video conferencing codec |

| | | COLLABORATION TABLES | | |
|---|---|---|---|---|
| | 3 | CRESTRON | FT-600B w/FTA-PWR-102 | Recessed Table Box with power & Data |
| | | | | |




SMALL CONFERENCE ROOM / OFFICE
SCALE: N.T.S.

| | | Office (Typical of 5) | | |
|---|---|---|---|---|
| Symbol | Qty | Manufacturer | Model | Description |
| | 1 | Apple | Apple TV | Presentation gateway W/ IR Extender |
| | A/R | Custom | | Input Interface Plate VGA / HDMI Interface Cables |
| TV-4 | 1 | Smart | 4055 | 55" Interactive Flat Panel Display |
| | 1 | Creston | DM - TX - 200 - C - 2G | Digital Media Transmitter (A245 Only) |
| | 1 | Creston | DM - RMC - 4K - 100 - C | Digital Media Receiver (A245 Only) |
| | 1 | Chief | LSMU | Locking flat panel mount |
| | 1 | | | USB Extender |

| | | Small Conference (Typical of 3) | | |
|---|---|---|---|---|
| Symbol | Qty | Manufacturer | Model | Description |
| | 1 | Apple | Apple TV | Presentation gateway W / IR Extender |
| | A / R | | | VGA/HDMI Interface Cables |
| | 1 | Crestron | FT-600B w/FTA-PWR-102 | Recessed Table Box w/pwr & VGA/HDMI Cables & USB |
| | 1 | Crestron | DM-TX-201-C | Digital Media Transmitter |
| | 1 | Crestron | DM-RMC-4K-100-C | Digital Media Receiver |
| TV-2 | 1 | Smart | 4055 | 55" Interactive Flat Panel Display |
| | 1 | Chief | LSMU | Locking flat panel mount |
| | 1 | | | USB Extender |

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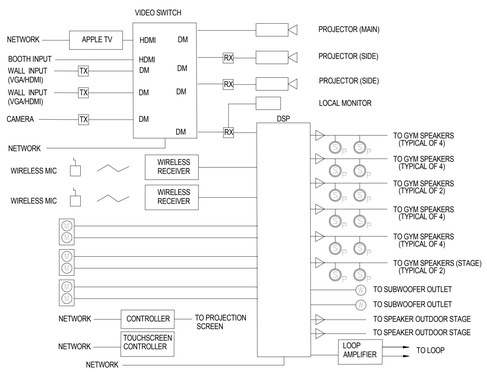
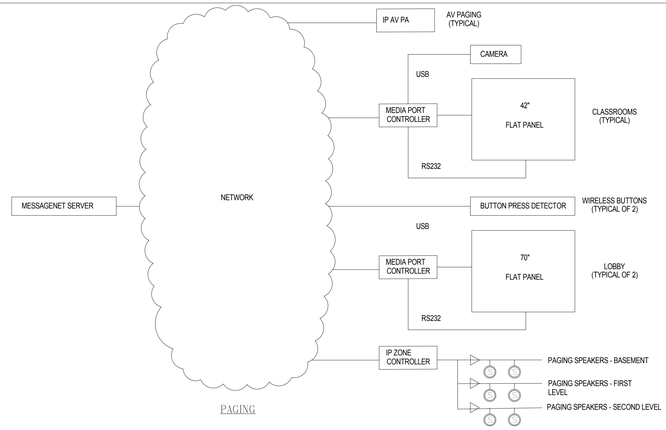



GYMNASIUM

| Symbol | Qty | Manufacturer | Model | Description |
|---|---|---|---|---|
| | 1 | Middle Atlantic | SR-40-28 | Freestanding equipment cabinet |
| | 1 | Apple | Apple TV | Presentation Gateway W/ IR Extender |
| VC | 1 | Panasonic | AW-HE40HW | HD camera w/ PoE+ |
| | 1 | Crestron | CP3N | Control System |
| TX-1 | 2 | Crestron | DM-TX-200-C-2G | DigitalMedia transmitter |
| | 1 | Crestron | DM-MD8x8 | 8x8 DigitalMedia switcher |
| | 3 | Crestron | DMC-4K-C | DM input card |
| | 2 | Crestron | DMC-4K-HD | HDMI input card |
| | A/R | Crestron | DMCO | DigitalMedia output card |
| | 2 | Crestron | DM-RMC-4K-100-C | DigitalMedia receiver |
| | 1 | Crestron | DM-RMC-200-C | DigitalMedia receiver / Rack Mount |
| P-1 | 1 | Sony | FHZ700L | Projector, 7000 lumen, with lens |
| | | Chief | | locking projector mount and cage |
| | 1 | Crestron | TSW-750 | 7" Touchscreen |
| | 1 | Crestron | TSW-750 -TTK | Table Top Kit |
| | 1 | Dalite | Tensioned Professional Electrol | 135"x240", 275" diagonal, 16x9 aspect |
| | | | | HD progressive .9 screen material |
| | | | | Low voltage control |
| | 1 | | | 1080 p Monitor w/ HDMI Input |

| | | | | |
|---|---|---|---|---|
| P-2 | 2 | NEC | U321H | Ultra-short projector |
| | 2 | NEC | | Projector wall mount and cage |
| M | 3 | RDL | D-XLR2F | Microphone input plate, XLR, dual |
| W | 2 | RDL | D-XLR3M | Subwoofer output jack, XLR |
| | 2 | Shure | QLXD124/85 | Wireless microphone system |
| | 2 | Ultimate | MC-05 | Microphone Stand |
| | 4 | Shure | SM58 | Hand held microphone |
| | 4 | Shure | | 25' microphone cables |
| | 1 | BSS Soundweb London | BLU-100 | DSP, 12x8, iPad interface |
| | 4 | Crown | DCi 2\|1250 | Dual channel amplifier, 1250 Watt/ch |
| | 20 | JBL | Control 322CT | Ceiling Loudspeaker |
| | 20 | JBL | MTC-300BB12 | Backbox |
| | 20 | JBL | MTC-300SG12 | Grille Painted Black |
| | 2 | JBL | SRX828SP | Powered Subwoofer |
| | 2 | One Systems | 112IM | Outdoor speakers |
| | A / R | Listen | MLD5/MLD7/MLD9 | MultiLoop driver (CPCI) |
| | 1 | Listen | FBI-8 | Flat Insulated Copper Cable (CPCI) |
| | 6 | Listen | LP-IL-1 | Hearing loop receivers |

* (CPCI) = Contractor provided, Contractor Installed.




PAGING

| | | Paging | | |
|---|---|---|---|---|
| Symbol | Qty | Manufacturer | Model | Description |
| | 1 | MessageNet | H10300 | Dell Server |
| | 1 | MessageNet | S09000 | MessageNet Connections server software suite |
| | 1 | MessageNet | C10000 | Server software build, config, testing |
| | 35 | MessageNet | S09000 - PC 1 | MessageNet PC Alert license |
| | 50 | MessageNet | S11000 - TX 1 | Text Messaging Device license |
| PG-1 | 28 | MessageNet | H33001 | Medium - IP AV PA with Flashers |
| | 28 | MessageNet | S18500 | IP AV Display License |
| | 2 | MessageNet | H38500 | IP Zone Controller |
| | 2 | MessageNet | S13700 | IP Speaker/Zone Controller License |
| | 12 | MessageNet | H65200 | MediaPort Controller - UL |
| | 12 | MessageNet | S14500 | LCD Digital Display Software License |
| | 10 | MessageNet | H69201 | USB HD Video Camera |
| | 10 | MessageNet | S14200 | Video Camera Software License |
| | 1 | MessageNet | S15901 | Text to Speech Engine |
| | 2 | MessageNet | S15902 | Voice & Text to Speech Port License |
| | 12 | MessageNet | H34201E | Single-Button Belt Clip, Pendant or Fixed position |
| | 12 | MessageNet | S16000 | Wireless Button Device software License |
| | 2 | MessageNet | H34403E | Button Press Detector |

| | | | | |
|---|---|---|---|---|
| | 2 | MessageNet | H18501 | Single Port Ethernet to RS232 Adaptor |
| | 2 | MessageNet | S16100 | Wireless Button Sensor-Receiver/Repeater License |
| | 4 | MessageNet | C12000 | On-Site Professional Services |
| | 20 | MessageNet | C14200 | Remote Professional Services |
| | 1 | MessageNet | C14500 | Standard Annual Software Support |
| TV-5 | 10 | LG | | 42" Flat Panel Display with Mount (Verify Compatibility) |
| TV-3 | 2 | LG | | 70" Flat Panel Display whit mount (Verify compatibility) |
| | 1 | Crown | Dci 4\|300 | Paging amplifier |
| | A/R | Soundtube | CM52s-BGM | 5" Paging Speaker |
| | A/R | Soundtube | SM500i-II | 5" Surface Mount Speaker (Basement) |
| | 2 | Soundtube | SM590i-II | 5" Surface Mount Speaker (Courtyard) |
| CABLE | | | | |
| | A/R | Belden or approved | 22 AWG Microphone Cable | Audio Cable |
| | A/R | Belden or approved | 12 awg speaker cable | Speaker cable, gymnasium |
| | A/R | Belden or approved | 16 awg speaker cable | Speaker cable, classroom & paging |
| | A/R | Belden or approved | minimum CAT6 utp cable | Network and control cable |
| | A/R | Belden or approved | minimum shielded CAT6 cable | HDbaseT cable |
| | A/R | Various | cables and connectors as required | |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Mechanical: - WHW Engineering - 801.466.4021
Electrical: - ECE Consulting - 801.521.8007
Landscape: - Landmark Design - 801.474.3300
Food Service: - Jedrziewski Designs - 801.582.9747

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SHEET DATA

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PROJECT

State of Utah Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building • Salt Lake City, UT • 84114
DFCM # 14190230
DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

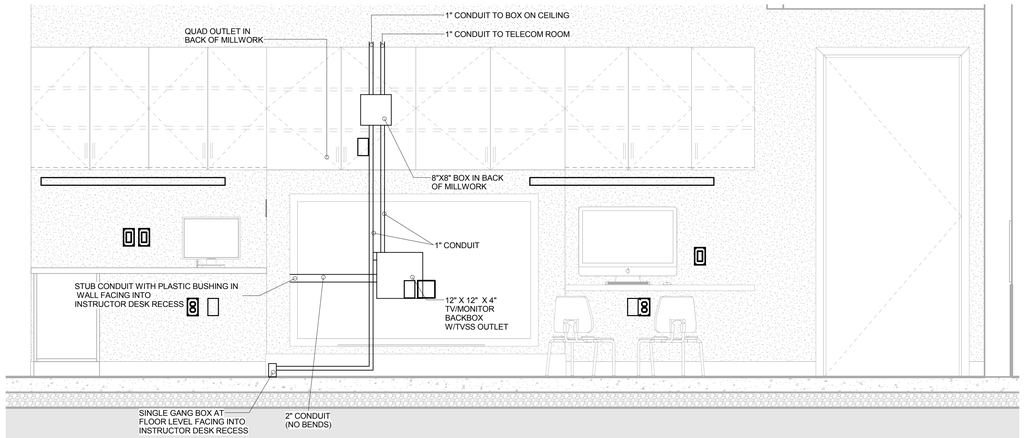
ISSUE/PHASE

2014 10 09 Schematic Design
2014 12 11 Design Development

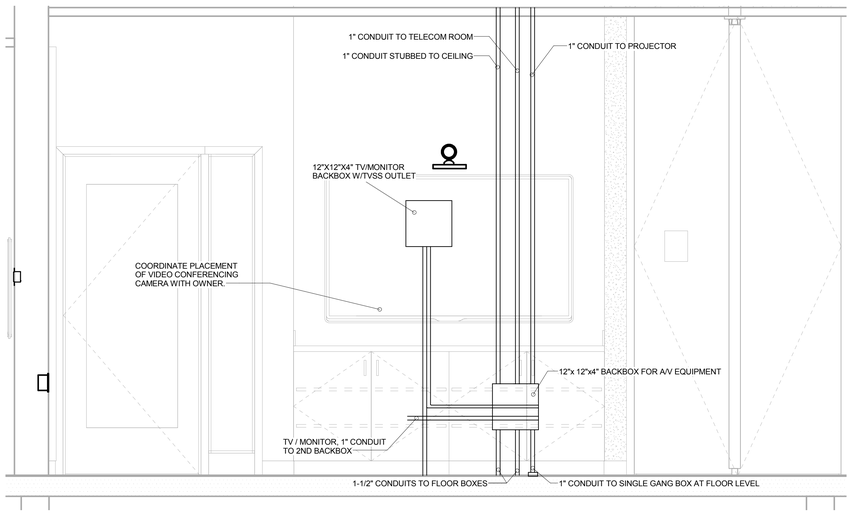
CONSTRUCTION DOCUMENTS

AV TYPICAL DIAGRAMS

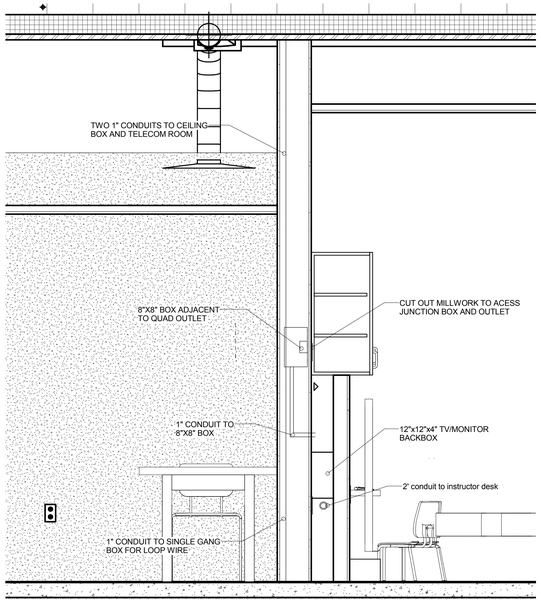
EV2-11




2 CLASSROOM CONDUIT LAYOUT A
3/4" = 1'-0"




3 BOARDROOM CONDUIT LAYOUT
3/4" = 1'-0"




1 CLASSROOM CONDUIT LAYOUT B
3/4" = 1'-0"

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JACOBY ARCHITECTS

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801 363 1434
Project Number: 2014-07


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Checked By: Checker

PROJECT

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DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building · Salt Lake City, Utah 84114 · 801.538.3018

DFCM # 14190230
DFCM APPROVAL STAMP:

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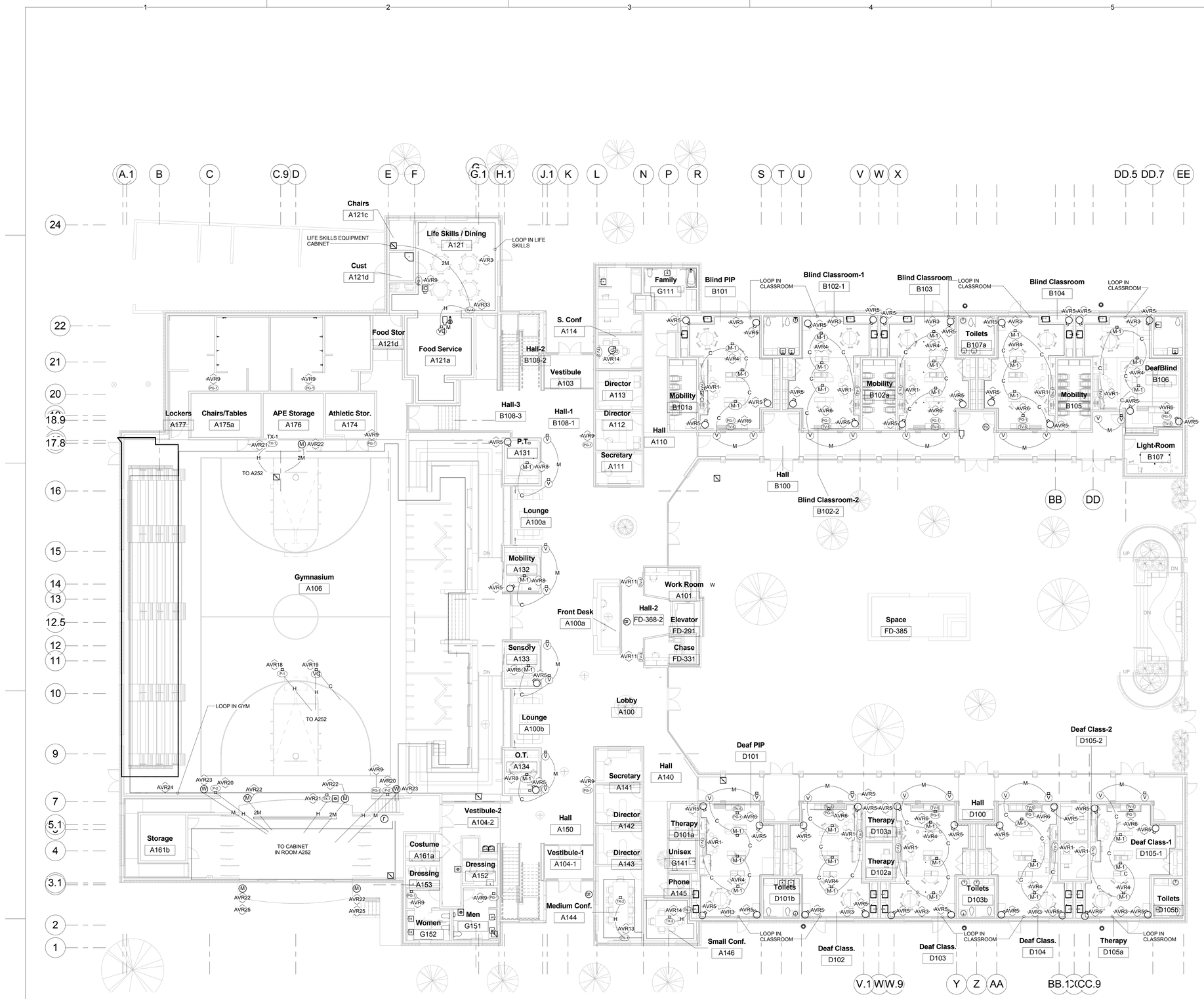
| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |

CONSTRUCTION DOCUMENTS

A/V CONDUIT LAYOUT

EV2-12




1 LEVEL 1 - AV
3/32" = 1'-0"

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3. COORDINATE EXACT NETWORK REQUIREMENTS WITH USDB IT PERSONNEL.

4. ALL AV INFRASTRUCTURE IS CONTRACTOR PROVIDED EXCEPT AS NOTED. EQUIPMENT AND INSTALLATION LABOR ASSOCIATED WITH THE INFORMATION ON THIS PAGE IS OWNER PROVIDED AND INSTALLED. IT IS INCLUDED FOR REFERENCE ONLY. SEE SPECIFICATIONS, SECTION 011000 SUMMARY FOR DETAILED DIVISION OF WORK.

## REFERENCE NOTES:

| | |
|---|---|
| AVR1 | Install classroom interactive flat panel display in location shown. Coordinate mounting height with architectural drawings. Run cables to instructor computer interface. Run cables to AV equipment in cabinet above flat panel. Run CAT cable to telecom room for Apple TV. Coordinate termination with USDB IT personnel. |
| AVR3 | Install ultra-low spill array loop system in classroom provided by generaL contractor. Lay flat insulated copper cable on slab below finished flooring. Coordinate with general contractor to prevent loop damage by other trades. |
| AVR4 | Suspend three microphones from ceiling for classroom observation system. Run low voltage power from cabinet above flat panel. Loop CAT cable between inputs and down to receiver in hall adjacent to window. Loop power and audio between headphone amplifiers on each side of window. |
| AVR5 | Install classroom observation camera provided by general contractor. Run CAT cable to telecom room. Coordinate termination with USDB IT personnel. |
| AVR6 | Install flat panel display in classroom for visual paging below AV paging device. Coordinate mounting height with architectural drawings. Install USB camera above flat panel. Run two CAT cables to telecom room. Coordinate termination with USDB IT personnel. |
| AVR8 | Suspend microphone from ceiling for clubhouse observation system. Run low voltage power from outlet on ceiling. Run CAT cable between input and receiver in hall adjacent to window. Loop power and audio between headphone amplifiers on each side of window. |
| AVR9 | Install AV paging device. Run CAT cable to telecom room. Coordinate termination with USDB IT personnel. Provide and install protective cage for gymnasium devices. |
| AVR11 | Install flat panel display on wall. Connect to MediaPort Controller. Verify FPD compatibility. Run CAT cable to telecom room. Coordinate termination with USDB IT personnel. |
| AVR13 | Medium conference room. Install flat panel display on wall. Install codec and video camera on a shelf above flat panel. Cut table box into conference table. Coordinate with owner. Run shielded CAT cable from conference table transmitter to receiver at flat panel. Run three CAT cables to telecom room. Coordinate termination with USDB IT personnel. |
| AVR14 | Small conference room. Install flat panel display on wall. Run shielded CAT cable from conference table transmitter to receiver at flat panel. Cut table box into conference table. Coordinate with owner. Run two CAT cables to telecom room. Coordinate termination with USDB IT personnel. |
| AVR18 | Mount projector from ceiling in location shown. Brace pole as necessary to prevent swaying. Provide and install a protective cage around projector. Run shielded CAT cable to equipment cabinet in A252. |
| AVR19 | Pole mount video camera. Brace pole as necessary to prevent swaying. Provide and install a protective cage around camera. Run a CAT cable to nearest telecom room. Coordinate termination with USDB IT personnel. Run shielded CAT cable to equipment cabinet in A252. |
| AVR20 | Mount short-throw projector on wall in. Projector to be at top of image. Coordinate with architectural drawings. Provide and install a protective cage around projector. Run shielded CAT cable to cabinet in A252. |
| AVR21 | Install AV input plate on wall. Run shielded CAT cable to cabinet in A252. |
| AVR22 | Install dual microphone input plate. Run two microphone cables to cabinet in A252. |
| AVR23 | Install subwoofer output plate. Run one microphone cable to cabinet in A252. |
| AVR24 | Install ultra-low spill array loop system in gymnasium, provided by general contractor. Lay flat insulated copper cable on slab below finished gym flooring. Prevent loop damage by other trades. |
| AVR25 | Mount speakers on high corners of stage canopy. Aim speakers to cover seating area. |
| AVR33 | Install flat panel display as close to ceiling as possible. Run audio output from flat panel display to equipment cabinet. |


JACOBY ARCHITECTS

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| Mechanical: | WHW Engineering - 801.466.4021 |
| Electrical: | ECE Consulting - 801.521.8007 |
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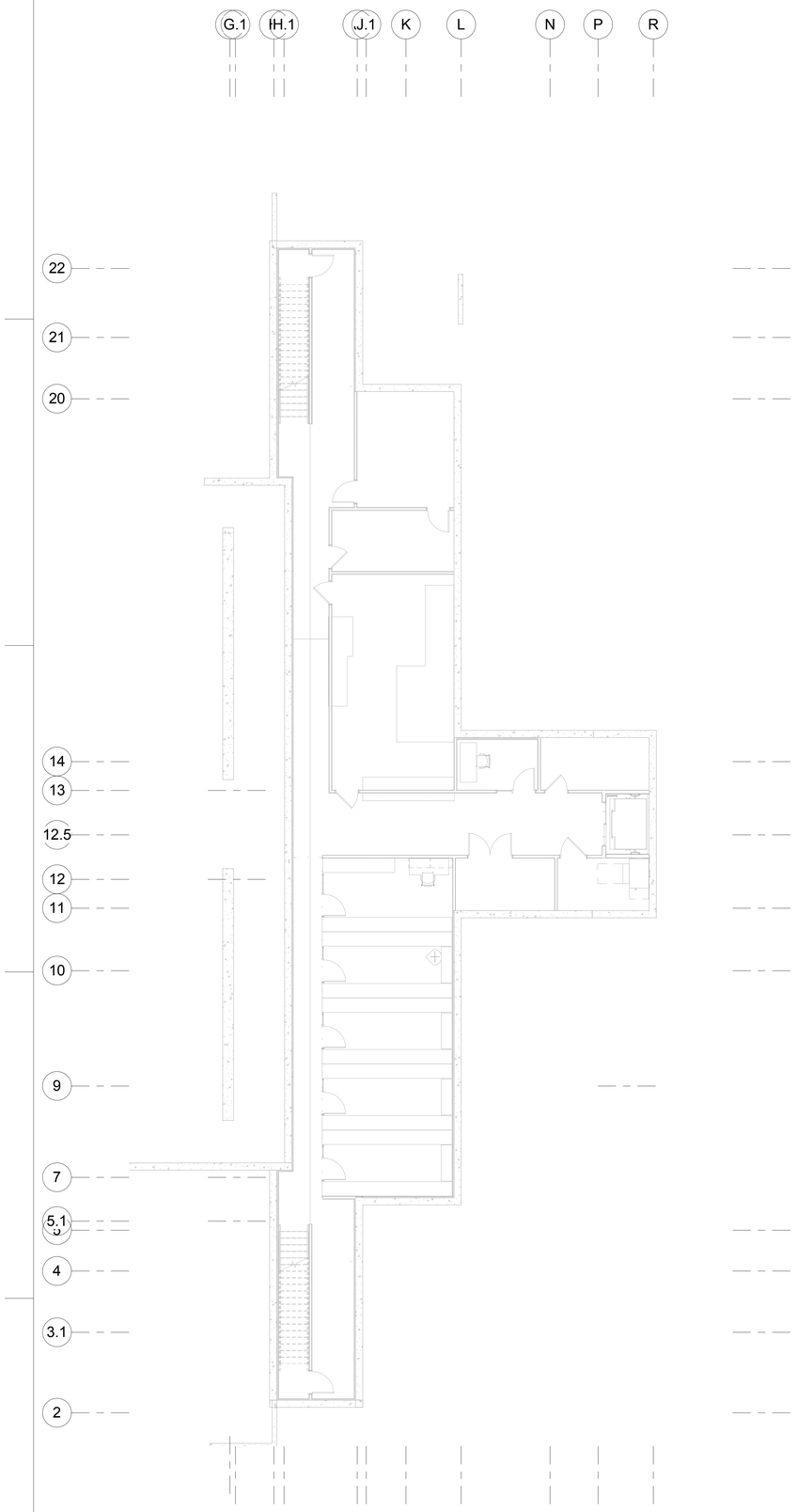
| 2014 12 11 | Design Development |

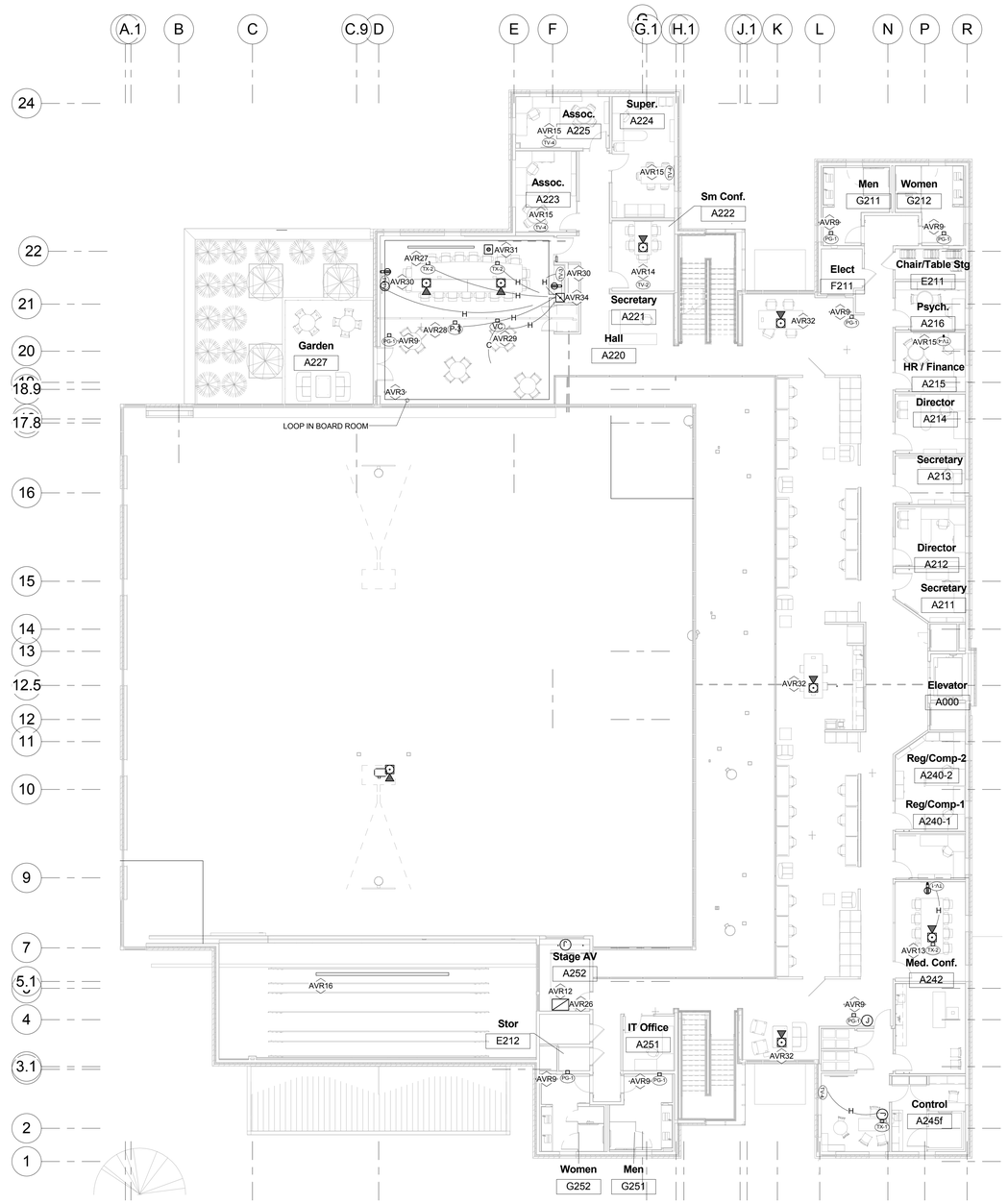
### CONSTRUCTION DOCUMENTS

FIRST LEVEL - AV

EV2-13



2 BASEMENT - SYSTEMS
1/8" = 1'-0"




1 LEVEL 2 - AV
3/32" = 1'-0"

## AV GENERAL NOTE:

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## REFERENCE NOTES:

| | |
|---|---|
| AVR3 | Install ultra-low spill array loop system in classroom provided by general. contractor. Lay flat insulated copper cable on slab below finished flooring. Coordinate with general contractor to prevent loop damage by other trades. |
| AVR9 | Install AV paging device. Run CAT cable to telecom room. Coordinate termination with USDB IT personnel. Provide and install protective cage for gymnasium devices. |
| AVR12 | Install MessageNet IP Zone controllers in equipment cabinet in A252. Connect audio output to amplifiers. Run two CAT cables to nearest telecom room. Coordinate termination with USDB IT personnel. |
| AVR13 | Medium conference room. Install flat panel display on wall. Install codec and video camera on a shelf above flat panel. Cut table box into conference table. Coordinate with owner. Run shielded CAT cable from conference table transmitter to receiver at flat panel. Run three CAT cables to telecom room. Coordinate termination with USDB IT personnel. |
| AVR14 | Small conference room. Install flat panel display on wall. Run shielded CAT cable from conference table transmitter to receiver at flat panel. Cut table box into conference table. Coordinate with owner. Run two CAT cables to telecom room. Coordinate termination with USDB IT personnel. |
| AVR15 | Office. Install flat panel display on wall. Run AV cables to interface plate on wall below flat panel. Run two CAT cables to telecom room. Coordinate termination with USDB IT personnel. Program a simple iPad Crestron interface for network TV control. |
| AVR16 | Suspend projection screen from structure with a safety factor of 5. Trim bottom of screen just above proscenium opening and bottom of stage curtains. Run low voltage control wiring to screen control on stage and to AV controller in A252. Install low voltage screen control on wall. |
| AVR26 | Install A/V cabinet in control room A252. Run CAT cables as required to nearest telecom room. Coordinate termination with USDB IT personnel. Program control room touchpanel and a simple iPad control for gymnasium AV control. |
| AVR27 | Cut table boxes into large portion of board room table. Coordinate with owner. Install transmitters and audio inputs under table. Run (shielded) CAT cables to equipment cabinet in millwork. Provide XLR microphone inputs for table mics. Coordinate locations with owner. |
| AVR28 | Install projector from ceiling. Coordinate throw distance with manufacturer specifications. Run shielded CAT cable to equipment cabinet in millwork. |
| AVR29 | Ceiling mount video camera. Run shielded CAT cable from transmitter to equipment cabinet in millwork. Run a CAT cable to nearest telecom room. Coordinate termination with USDB personnel. |
| AVR30 | Install flat panel display with articulating mount. Install conferencing camera above display. Run shielded CAT cables to equipment cabinet in millwork. |
| AVR31 | Install recessed projection screen. Run cable to control on wall and controller in millwork. |
| AVR32 | Cut table boxes into collaboration tables. Coordinate with owner. |
| AVR34 | Furnish and install euipment cabinet in millwork. Run network cables to nearest telecom room. coordinate termination with USDB IT personnel. Coordinate exact needs for control system and touchpanel interface programming with owner. |


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CONSTRUCTION DOCUMENTS

SECOND LEVEL - AV

EV2-14

## AV GENERAL NOTE:

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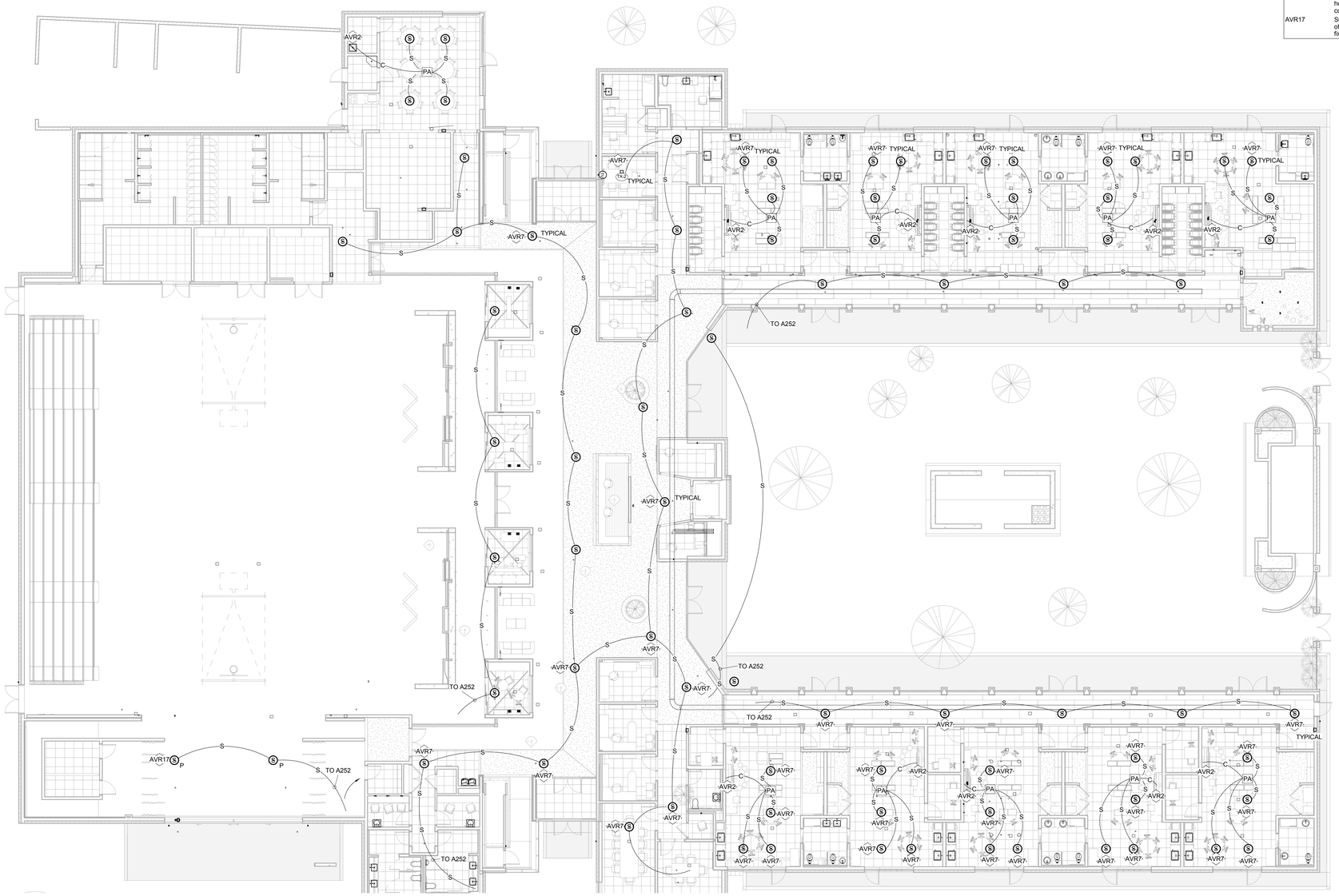
## REFERENCE NOTES:

| | |
|---|---|
| AVR2 | Install classroom audio amplification control unit in cabinet above flat panel. Run CAT cable to powered room module in ceiling. Install classroom speakers. Run speaker cables from room module to speakers. |
| AVR7 | Install 4" recessed paging speaker. Parallel 70V speakers and home run paging zones to equipment cabinet in A252 and connect as detailed on riser. |
| AVR17 | Suspend speaker enclosure from structure with a safety factor of 5. See detail on EE1-12. Match trim height of lighting fixtures. Refer to architectural drawings. |




1 AV SPEAKER PLAN
3/32" = 1'-0"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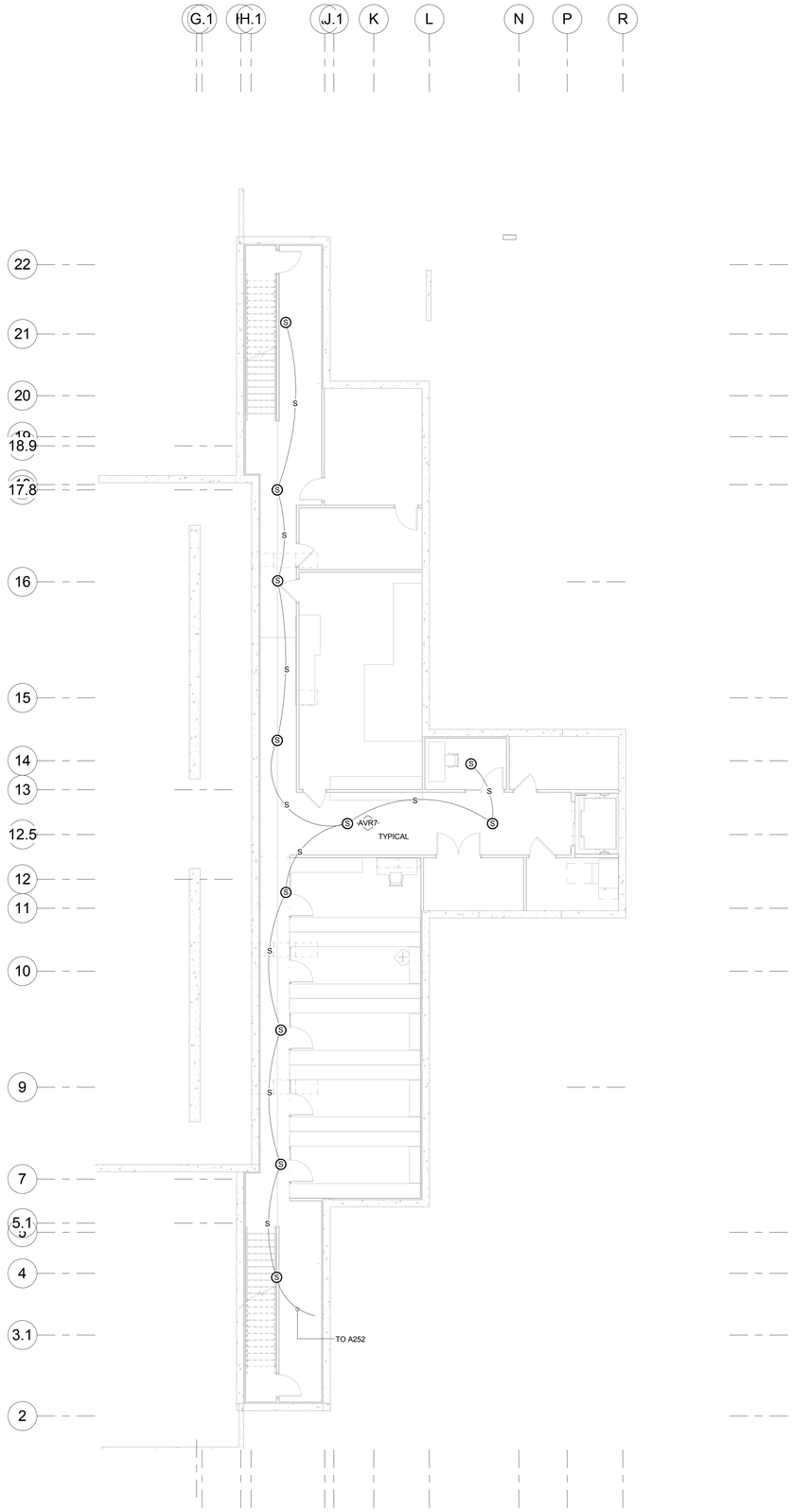
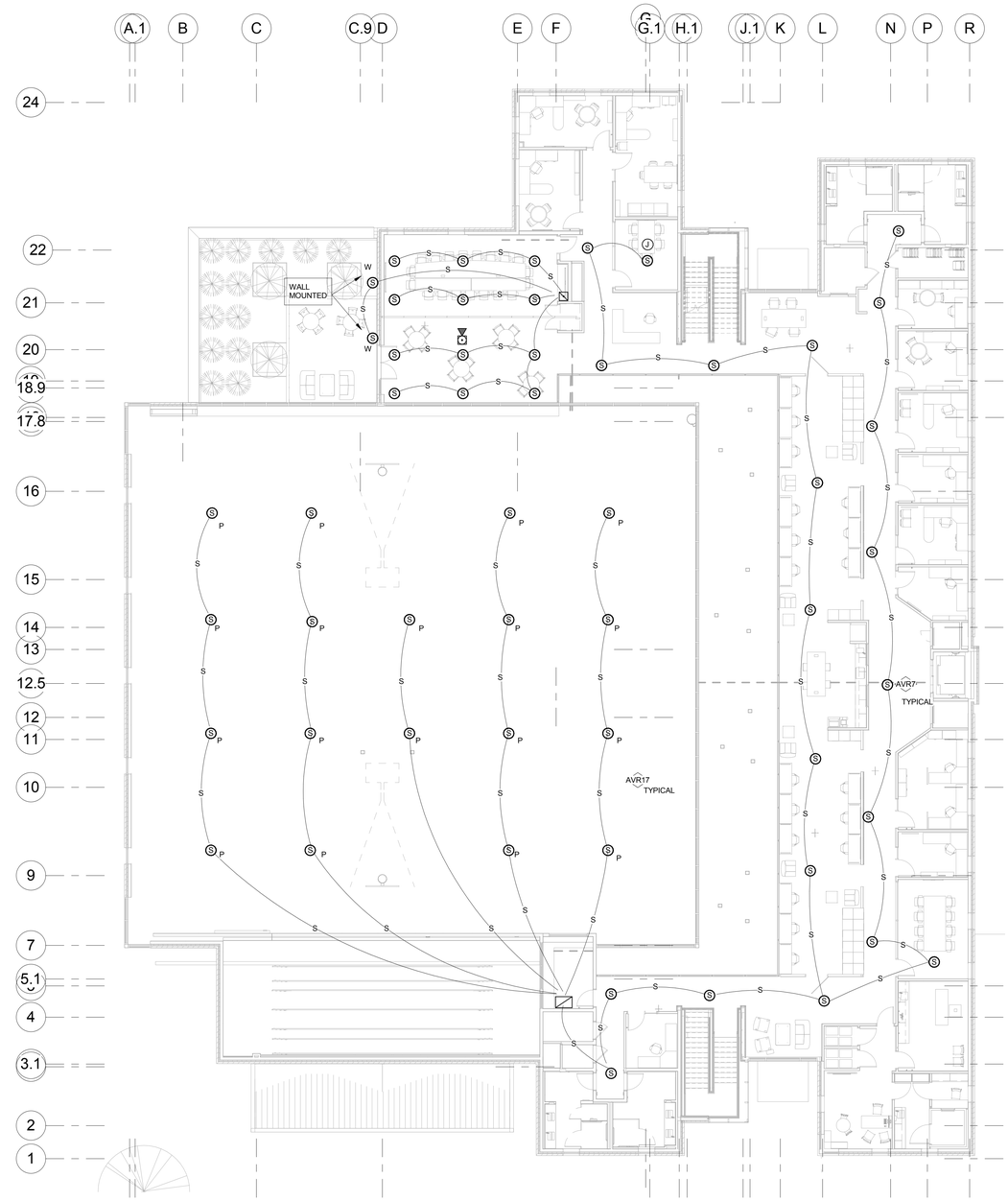
CONSTRUCTION DOCUMENTS

FIRST LEVEL
SPEAKER PLAN

EV2-15




2 BASEMENT - AV SPEAKERS
1/8" = 1'-0"




1 LEVEL 2 - AV SPEAKERS
3/32" = 1'-0"

## AV GENERAL NOTE:

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## REFERENCE NOTES:

| | |
|---|---|
| AVR7 | Install 4" recessed paging speaker. Parallel 70V speakers and home run paging zones to equipment cabinet in A252 and connect as detailed on riser. |
| AVR17 | Suspend speaker enclosure from structure with a safety factor of 5. See detail on EE1-12. Match trim height of lighting fixtures. Refer to architectural drawings. |


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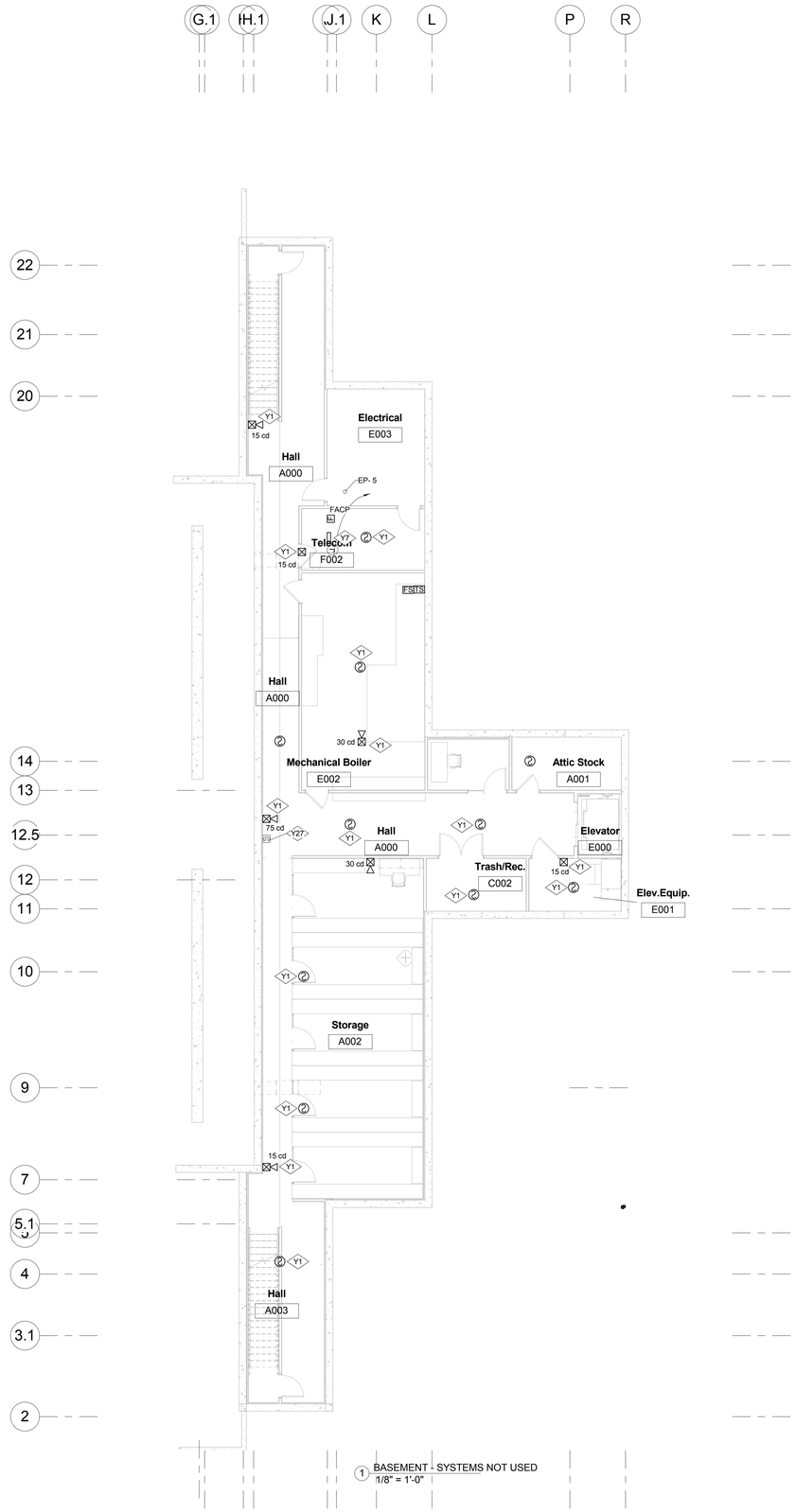
CONSTRUCTION DOCUMENTS

BASEMENT, SECOND LEVEL SPEAKER PLAN

EV2-16

## REFERENCE NOTES:

| | |
|---|---|
| Y1 | FURNISH AND INSTALL AN ADDRESSABLE FIRE ALARM DEVICE IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIRE ALARM CONTROL PANEL IN CLASS "A" LOOP. IN AND OUT CIRCUITS SHALL RUN IN SEPARATE CONDUITS. REFER TO THE FIRE ALARM RISER DIAGRAM FOR MORE INFORMATION. |
| Y7 | FURNISH AND INSTALL A FIRE ALARM CONTROL PANEL IN THE APPROXIMATE LOCATION SHOWN. TIE TO CIRCUIT INDICATED. RUN A 1" CONDUIT FROM F.A.C.P. TO NEAREST COMMUNICATION ROOM. PROVIDE ALL HARDWARE, SOFTWARE, PROGRAMMING, POWER SUPPLIES, BATTERIES, ETC AS REQUIRED FOR A COMPLETE INSTALLATION TO ACCOMMODATE ALL NEW DEVICES PLUS EXTRA CAPACITY AS INDICATED FOR FUTURE. REFER TO FIRE ALARM RISER DIAGRAM FOR MORE INFORMATION. |
| Y27 | FURNISH AND INSTALL NEW INTERCOM SYSTEM IN THE BASEMENT AND ON THE SECOND LEVEL TO COMMUNICATE TO THE INTERCOM SYSTEM ON THE FIRST LEVEL OR IF NO ANSWERE TO DIAL AN OUTSIDE NUMBER WITH 24 HOURS SERVICES. |




1 BASEMENT - SYSTEMS NOT USED
1/8" = 1'-0"


JACOBY ARCHITECTS

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### CONSULTANTS

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4110 State Office Building · Salt Lake City, Utah 84114 · 538-3018

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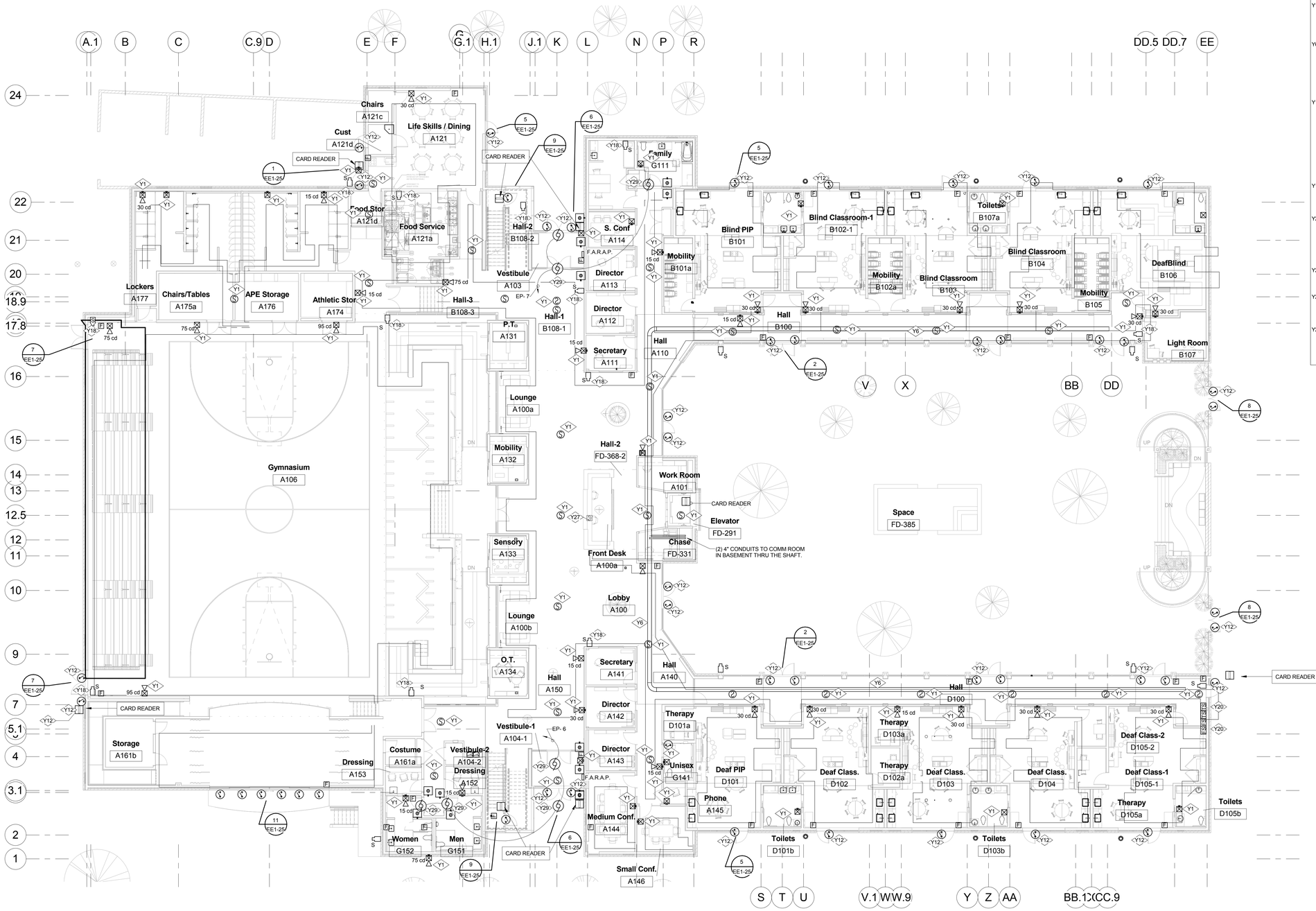
CONSTRUCTION DOCUMENTS

# BASEMENT FLOOR PLAN - SYSTEMS

# EY1-10




1 LEVEL 1 - SYSTEMS
3/32" = 1'-0"

## REFERENCE NOTES:

| | |
|---|---|
| Y1 | FURNISH AND INSTALL AN ADDRESSABLE FIRE ALARM DEVICE IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIRE ALARM CONTROL PANEL IN CLASS "A" LOOP. IN AND OUT CIRCUITS SHALL RUN IN SEPARATE CONDUITS. REFER TO THE FIRE ALARM RISER DIAGRAM FOR MORE INFORMATION. |
| Y6 | FURNISH AND INSTALL A 18" WIDE, 4" HIGH BASKET TYPE CABLE TRAY. B-LINE OR APPROVED EQUAL. SUPPORT THE CABLE TRAY WITH 5/8" THREADED RODS EVERY 6'-0" AND AT EACH CORNER AND JOINTS. PROVIDE BONDING JUMPER AT ALL THE JOINTS AND GROUND THE TRAY WITH #6 THHN GROUND CONDUCTOR TO GROUND BUS BAR IN THE TELECOM ROOM. COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECT FOR EXACT HEIGHT AND LOCATION. |
| Y12 | FURNISH AND INSTALL A COMPLETE FUNCUTNAL CARD ACCESS/SECURITY SYSTEM REFER TO DOOR HARDWARE SCHEDULE FOR DEVICES TO BE FURNISHED AND INSTALLED BY DOOR HARDWARE GROUP. SECURTIY CONTRACTOR SHALL FURNISH AND INSTALL OTHER REQUIRED DEVICES FOR A COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR TO PROVIDE J-BOXES AND CONDUIT AND 120V POWER AS REQUIRED FOR A COMPETE INSTALLATION. REFER TO SECURITY DOOR DETAILS ON SHEET ---- FOR MORE INFORMATION. REFER TO DOOR HARDWARE SCHEDULE FOR TYPE AND LOCATION OF DEVICES. COORDINATE WORK WITH ARCHITECT AND DOOR HARDWARE SUPPLIER. |
| Y18 | FURNISH AND INSTALL A 5"X5"X3" J-BOX IN THE APPROXIMATE LOCATION FOR SECURITY CAMERA. COORDINATE WITH ARCHITECT FOR EXACT LOCATION. RUN A 1" CONDUIT TO THE NEAREST TELCOM ROOM. INSERT PULL STRING AND LABEL. |
| Y20 | FURNISH AND INSTALL TAMPER AND FLOW SWITCH MONITOR MODULES IN THE APPROXIMATE LOCATION SHOWN. TIE TO FIRE ALARM CONTROL PANEL IN A CLASS "A" LOOP. IN AND OUT CABLES TO DEVICES MUST RUN IN SEPARATE CONDUIT. PROVIDE ALL RELAYS, CONDUIT, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. |
| Y25 | FURNISH AND INSTALL 24V DOOR BELL WITH WATER PROOF PUSH BUTTON. INSTALL THE LV TRANSFORMER NEAR THE BELL NEAR THE RECEPTIONIST DESK ABOVE THE CEILING. |
| Y27 | FURNISH AND INSTALL NEW INTERCOM SYSTEM IN THE BASEMENT AND ON THE SECOND LEVEL TO COMMUNICATE TO THE INTERCOM SYSTEM ON THE FIRST LEVEL OR IF NO ANSWERE TO DIAL AN OUTSIDE NUMBER WITH 24 HOURS SERVICES. |
| Y29 | PROVIDE 120V EMERGENCY POWER TO THE DOOR OPERATORS INSTALL DOOR OPERATORS BUTTONS AND TIE TO THE DOOR OPERATOR CONTROL SYSTEM PER MANUFACTURER RECOMENDATIONS, AS REQUDIRED INTERFACE WITH THE ACCESS SYSTEM WHERE REQUIRED. |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DFCM APPROVAL STAMP:

ADDENDA

| Revision | Date |
|---|---|

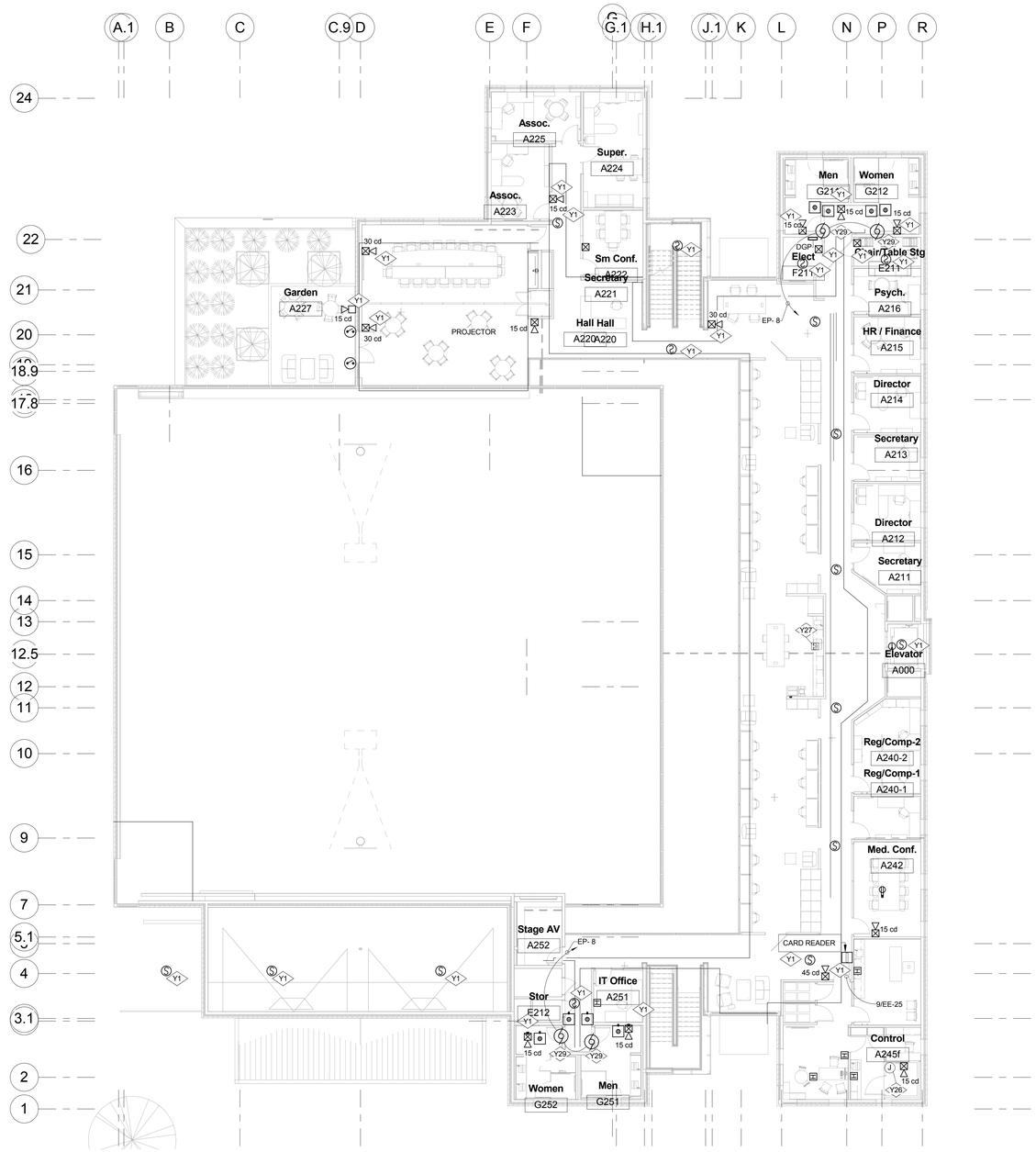
ISSUE/PHASE

| | |
|---|---|
| 2014 10 09 | Schematic Design |
| 2014 12 11 | Design Development |

CONSTRUCTION DOCUMENTS

LEVEL 1 FLOOR PLAN - SYSTEMS

EY1-11




1 LEVEL 2 - SYSTEMS
3/32" = 1'-0"

## REFERENCE NOTES:

| | |
|---|---|
| Y1 | FURNISH AND INSTALL AN ADDRESSABLE FIRE ALARM DEVICE IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIRE ALARM CONTROL PANEL IN CLASS "A" LOOP. IN AND OUT CIRCUITS SHALL RUN IN SEPARATE CONDUITS. REFER TO THE FIRE ALARM RISER DIAGRAM FOR MORE INFORMATION. |
| Y18 | FURNISH AND INSTALL A 5"X5"X3" J-BOX IN THE APPROXIMATE LOCATION FOR SECURITY CAMERA. COORDINATE WITH ARCHITECT FOR EXACT LOCATION. RUN A 1" CONDUIT TO THE NEAREST TELCOM ROOM. INSERT PULL STRING AND LABEL. |
| Y26 | FURNISH AND INSTALL J-BOX IN THE CEILING FOR FIRE ALARM CIRCUIT TO FEED THE FIRE ALARM DEVICES IN SOUND BOOT. |
| Y27 | FURNISH AND INSTALL NEW INTERCOM SYSTEM IN THE BASEMENT AND ON THE SECOND LEVEL TO COMMUNICATE TO THE INTERCOM SYSTEM ON THE FIRST LEVEL OR IF NO ANSWERE TO DIAL AN OUTSIDE NUMBER WITH 24 HOURS SERVICES. |
| Y29 | PROVIDE 120V EMERGENCY POWER TO THE DOOR OPERATORS INSTALL DOOR OPERATORS BUTTONS AND TIE TO THE DOOR OPERATOR CONTROL SYSTEM PER MANUFACTURER RECOMENDATIONS, AS REQUDIRED INTERFACE WITH THE ACCESS SYSTEM WHERE REQUIRED. |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STAMP

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SHEET DATA

Drawn By: Author
Checked By: Checker

PROJECT

State of Utah Department of Administrative Services
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LEVEL 2 FLOOR PLAN - SYSTEMS

EY1-12