



State of Utah

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

Department of Administrative Services

KIMBERLY K. HOOD
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON
Director

ADDENDUM #5

Date: August 18, 2008

To: Contractors

From: Mike Ambre, Project Manager, DFCM

Reference: Noorda Black Box Theater Addition and Remodel
Utah Valley University – Orem, Utah
DFCM Project No. 08017790

Subject: **Addendum No. 5**

Pages	Addendum	1	page
	<u>Architects Addendum</u>	<u>73</u>	<u>pages</u>
	Total	74	pages

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

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

- 1.1 **SCHEDULE CHANGES** – There are no changes to the project schedule.
- 1.2 **GENERAL** – Axis Architects, please see attached addenda.

Utah!
Where ideas connect

ADDENDUM - 5

Project: UVU Noorda Theater
DFCM Project Number: 08017790
Axis Project Number: 0804
To: Mike Ambre
From: Axis Architects
Date: August 16, 2008

Please make the following revisions to the construction documents:

ARCHITECTURAL DRAWINGS:

Sheet GI101: See attached drawing ADD 3.01 for updated code analysis, ADD 3.015 for updated differed submittals and ADD 3.02 for updated index.

Sheet GI102: See additional sheet attached.

Sheet AD001: Clarification: The camera survey indicated by General Note #4 on this sheet shall include a camera survey of the (3) Storm Drain Lines indicated from the nearest accessible location within the building where this occurs (figure 120 feet min.), or from the catch basin where the line does not enter the building, to the point where the Storm Drain Line meets the larger Storm Drain Line running from Northeast to Southwest. The Sanitary Sewer Line shall be camera surveyed from the nearest accessible point within the building (figure 120 feet min.) to the point where the Sanitary Sewer Line meets the larger Sanitary Sewer Line running from Northeast to Southwest.

Sheet AE001: - Clarification: The camera survey indicated by General Note #4 on this sheet shall include a camera survey of the (3) Storm Drain Lines indicated from the nearest accessible location within the building where this occurs (figure 120 feet min.), or from the catch basin where the line does not enter the building, to the point where the Storm Drain Line meets the larger Storm Drain Line running from Northeast to Southwest. The Sanitary Sewer Line shall be camera surveyed from the nearest accessible point within the building (figure 120 feet min.) to the point where the Sanitary Sewer Line meets the larger Sanitary Sewer Line running from Northeast to Southwest.

- See attached detail ADD 3.03 for added and relocated bollards.

- See attached detail ADD 3.04 for added and stripping and ADA sign.

- In keynote legend, add keynote S19 to read " Add ADA sign w/ van access. See detail B6/AE607. "

- In keynote legend, add keynote S20 to read " Paint stripes"

- In keynote legend, add keynote S21 to read " Painted ADA symbol".

Sheet AE100: Add a Note and Leader Line indicating: EXISTING CONCRETE RAMP ADJACENT TO GRID 'C' AND RUNNING WEST APPROXIMATELY 25 FEET TO BE REMOVED AND REPLACED WITH A NEW FLAT CONCRETE FLOOR SLAB AT THE SAME LEVEL AS THE EXISTING FLOOR AND NEW BASEMENT FLOOR. This note shall be located above the existing note indicating the removal of the existing door at the end of this hall.

- Sheet AE101:** - The walls on grid 1 shall be 1hour rated. See GI102.
 - Eliminate doors 108C and 108D.
 The following doors shall be 20mn fire rated:
 108A, 108B, 106C, 108E110A, 112A, 113A.
 - Add door symbol "106C " to the west door of light vestibule 106 and updated dimensions. See attached detail ADD 3.05
 - Switch swing of door 108A. See attached detail ADD 3.06
 - Switch swing of door 108B. See attached detail ADD 3.07
- Sheet AE102:** See revised stair layout and door swing of 203A. See detail ADD 3.08.
- Sheet AE111:** White Box Alternate: the ceiling of White Box 131 shall be the existing lay-in ceiling re-configured for the new layout with lighting as shown by Electrical (see this Addendum). The ceiling of White Box Audience 132 shall be a new lay-in ceiling at 10'-0" above finish floor with lighting as shown by Electrical (see this Addendum). The ceiling of White Box Office 133 shall be a new lay-in ceiling at 10'-0" above finish floor with lighting as shown by Electrical (see this Addendum).
- Sheet AE122:**- Revise deck bearing heights and added roof ladders. See attached detail ADD 3.09
 - Add roof ladder as indicated. See attached detail ADD 3.10
- Sheet AE302:** The elevation of the Balcony shall be 112'-0" (remove the note indicating 117'-0" for the Balcony). The B.O. Grid shall remain at 117'-0". The width of the Balcony from the face of the wall shall be 6'-0".
- Sheet AE500:** See additional sheet attached.
- Sheet AE501:** See attached detail ADD 3.11 for changes to cabinets. Also see detail references.
- Sheet AE502:** See additional sheet attached.
- Sheet AE605:** Details C2 and C3: Change dimension of guard to read 3'-6" in lieu of 36".
- Sheet AE606:** - See attached detail ADD 3.12 for updated note.
 - See attached detail ADD 3.13 for updated note.
 - See attached detail ADD 3.14 for updated note.
- Sheet AE607:** See additional sheet attached.

ARCHITECTURAL SPECIFICATIONS:

Index: Add Section 09 84 13 – Acoustical panels. (This section is already in the specs.)

08 71 00 Door Hardware – Delete previous section and replace in its entirety with this new section attached. This Specification Section also outlines hardware groups and which doors are to receive each hardware group.

04 21 13 - 4 2.2 C 4 a. Brick size shall be nominal 4x4x12 in lieu of 4x2 1/4x8

ARCHITECTURAL PRIOR APPROVALS:

Subject to compliance with requirements of drawings and specifications, the following manufacturers are approved to provide bids for the products listed below.

<u>Manufacturer:</u>	<u>Product:</u>
Johnson Brothers	Manufactured Casework and Cabinetry
Precision Mill Works	Manufactured Casework and Cabinetry
Division 7 Specialties/Versico	VersiGuard Non-Reinforced EPDM Roofing (Provided Subcontractor and Product can demonstrate compliance with DFCM Roofing Design Requirements as outlined

on the DFCM Web Site [
<http://dfcm.utah.gov/downloads/Roofing/Roofing%20Design%20Requirements.pdf>]).

Theater: See Attached Addendum information from Spectrum Engineers.

Structural: See Attached Addendum from Bsumek Mu.

Mechanical: See Attached Addendum from Van Boerum and Frank.

Electrical: See Attached Addendum from BNA

Attachments: Drawing Sheet GI102
Drawing Sheet AE500
Drawing Sheet AE502
Drawing Sheet AE607

Specification Section 08 71 00
ADD 3.01
ADD 3.015
ADD 3.2 through ADD 3.14

End of addendum

Note: This addendum shall be part of the construction documents. Items in this addendum apply to all drawing and specification sections whether referenced or not involving the portion of the work added, deleted, modified or otherwise addressed in the addendum. Acknowledge receipt of this addendum in the space provided on the bid form. Failure to do so may subject the bidder to disqualification.

CODE ANALYSIS

APPLICABLE CODES

International Building Code	<u>2006</u>	National Electrical Code	<u>2005</u>
International Mechanical Code	<u>2006</u>	Uniform Code for	
International Plumbing Code	<u>2006</u>	Building Conservation	
International Fire Code	<u>2006</u>	ADA Accessibility	
International Energy		Guidelines	<u>ICC/ANSI 117.1 2003</u>
Conservation Code	<u>2006</u>		

A. Occupancy and Group: A3(black box theater) B (other spaces on level 2) S(basement storage)

Change in Use: Yes No Mixed Occupancy: Yes No

Special Use and Occupancy (e.g. High Rise, Covered Mall): _____

B. Seismic Design Category: I Design Wind Speed: 90 mph

3

MODIFIED PORTION OF GI101

ADD 3.01

ALTERNATES

1 - WHITE BOX THEATER IMPROVEMENTS

2 - TERAZZO FLOORING @ LOBBY 105

DEFERRRED SUBMITTALS

- FIRE SPRINKLER SYSTEMS
ANTICIPATED DATE: OCT. 30, 2008
- SHORING/EXCAVATION
ANTICIPATED DATE: SEPT. 30, 2008
- FIRE ALARM
ANTICIPATED DATE: OCT 30, 2008
- SEISMIC BRACING FOR THEATER / MECH. EQUIPMENT
ANTICIPATED DATE: OCT 30, 2008

3

MODIFIED PORTION OF GI101

ADD 3.015

All Roofing material manufacturers are required to meet or exceed the manufacturing UL assembly # as outlined in the Underwriters Laboratories, Inc. Roofing Materials and Systems Directory Book

Carlisle Syntec Incorporated
1285 Ritner Hwy PO Box 7000
Carlisle, PA 17013

UL R8103
EPDM, 60 Mil

Firestone Building Products Co.
1st FL 310 E 96th St.
Indianapolis, IN 46240

UL R9516
EPDM, 60 Mil

Please note: All Other manufacturers will be reviewed for approval prior to bid. All UL manufacturer assembly criteria must be provided to the architect or owner for review and approval prior to bidding.

DRAWING INDEX

GENERAL

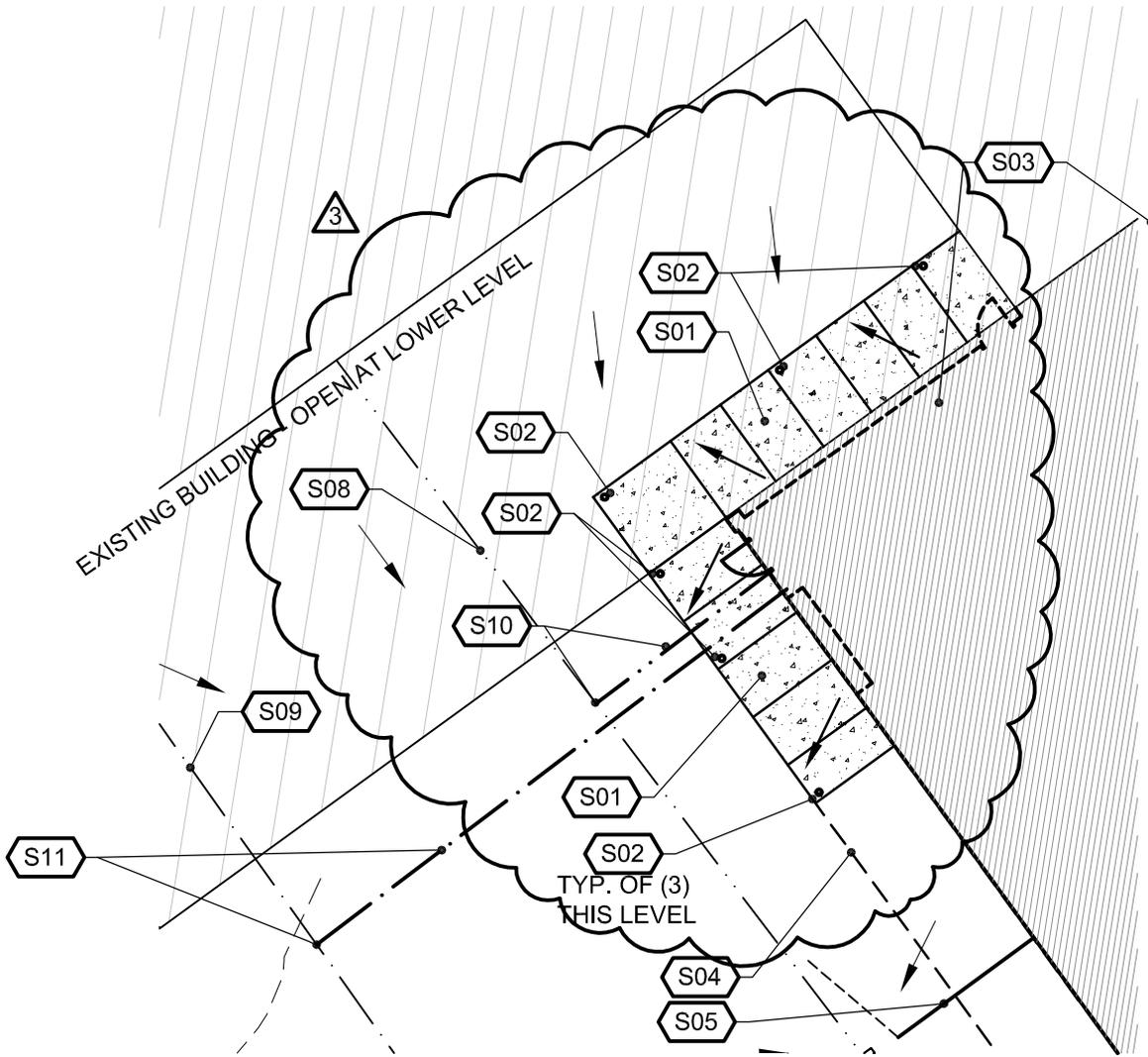
GI101	GENERAL INFORMATION
GI102	EXITING PLAN

ARCHITECTURAL

AD001	DEMOLITION SITE PLAN
AD101	DEMOLITION FLOOR PLAN
AE001	SITE PLAN
AE100	BASEMENT FLOOR PLAN
AE101	MAIN LEVEL FLOOR PLAN
AE102	BALCONY FLOOR PLAN
AE111	REFLECTED CEILING PLAN
AE122	ROOF PLAN
AE201	EXTERIOR ELEVATIONS
AE301	BUILDING SECTIONS
AE302	BUILDING SECTIONS
AE401	WALL SECTIONS
AE402	WALL SECTIONS
AE403	WALL SECTIONS
AE500	ACCESSIBILITY COMPLIANCE
AE501	ENL. PLANS AND INTERIOR ELEVATIONS.
AE502	STAIR PLANS AND SECTIONS
AE503	ENL. PLANS AND INTERIOR ELEVATIONS.
AE601	DETAILS
AE602	DETAILS
AE603	DETAILS
AE604	DETAILS
AE605	DETAILS
AE606	DETAILS
AE607	DETAILS
AE801	DOOR AND WINDOW DRAWINGS

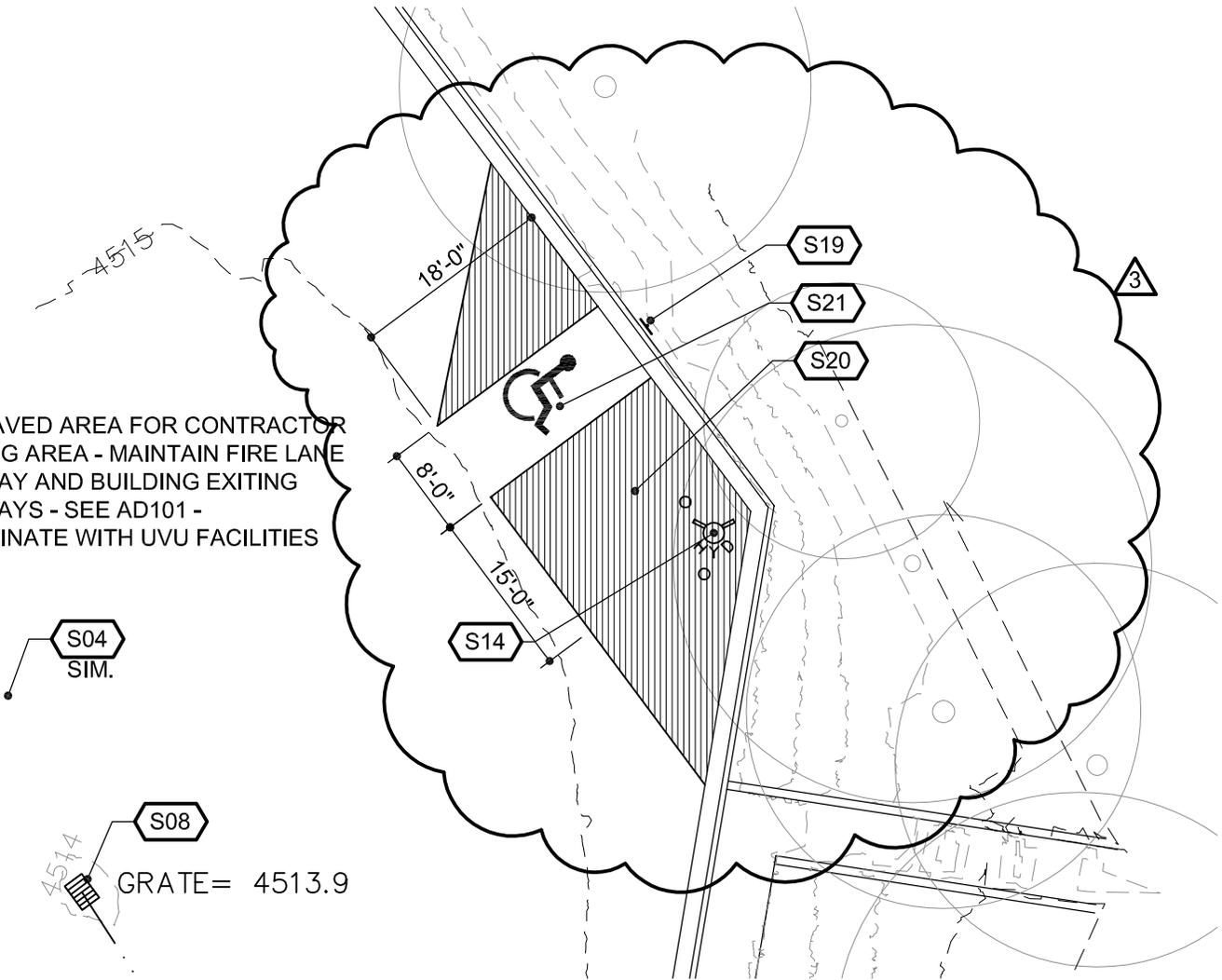
MODIFIED PORTION OF GI101

ADD 3.02

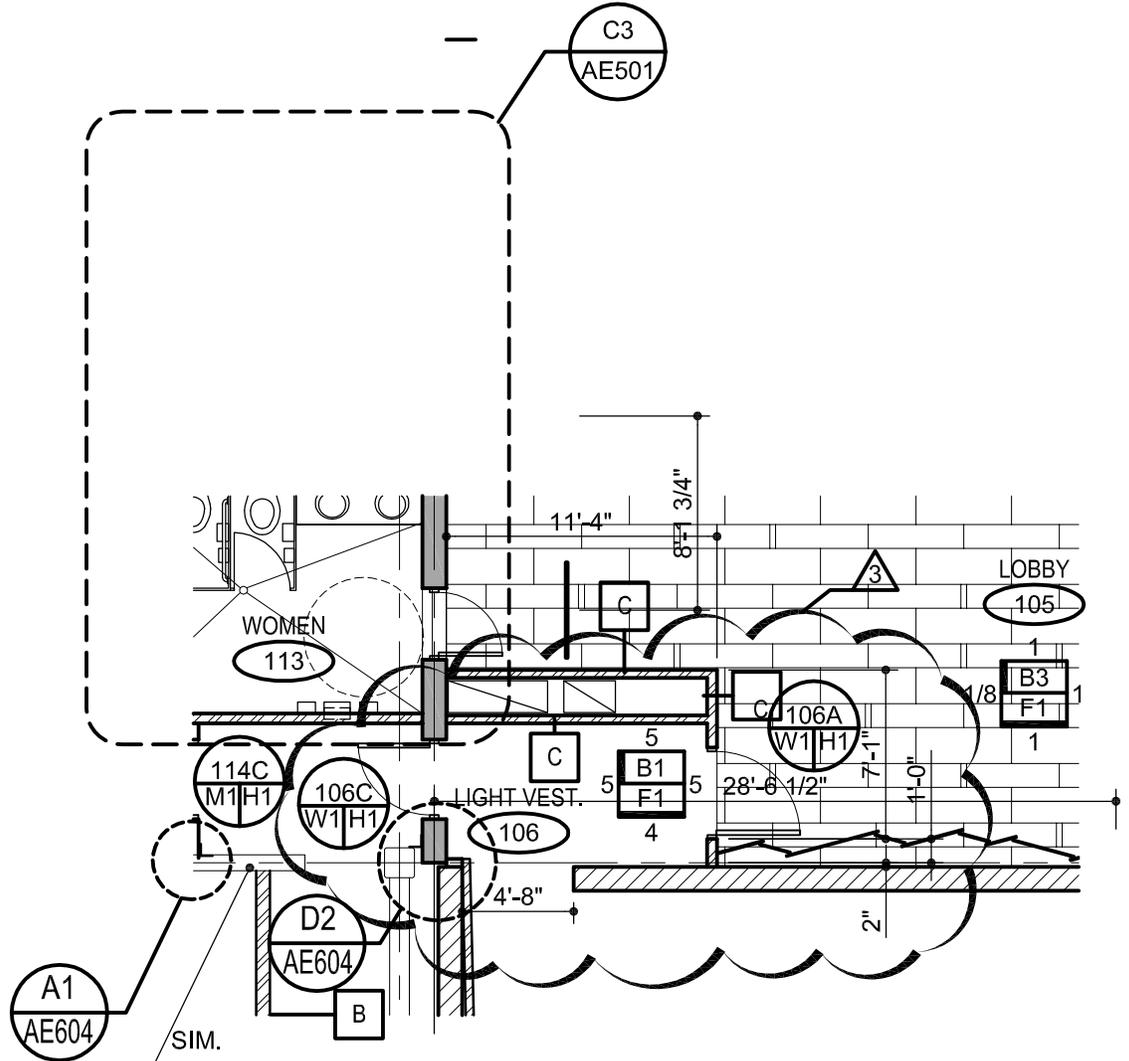


MODIFIED PORTION OF AE001	ADD 3.03
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THIS PAVED AREA FOR CONTRACTOR STAGING AREA - MAINTAIN FIRE LANE PATHWAY AND BUILDING EXITING PATHWAYS - SEE AD101 - COORDINATE WITH UVU FACILITIES

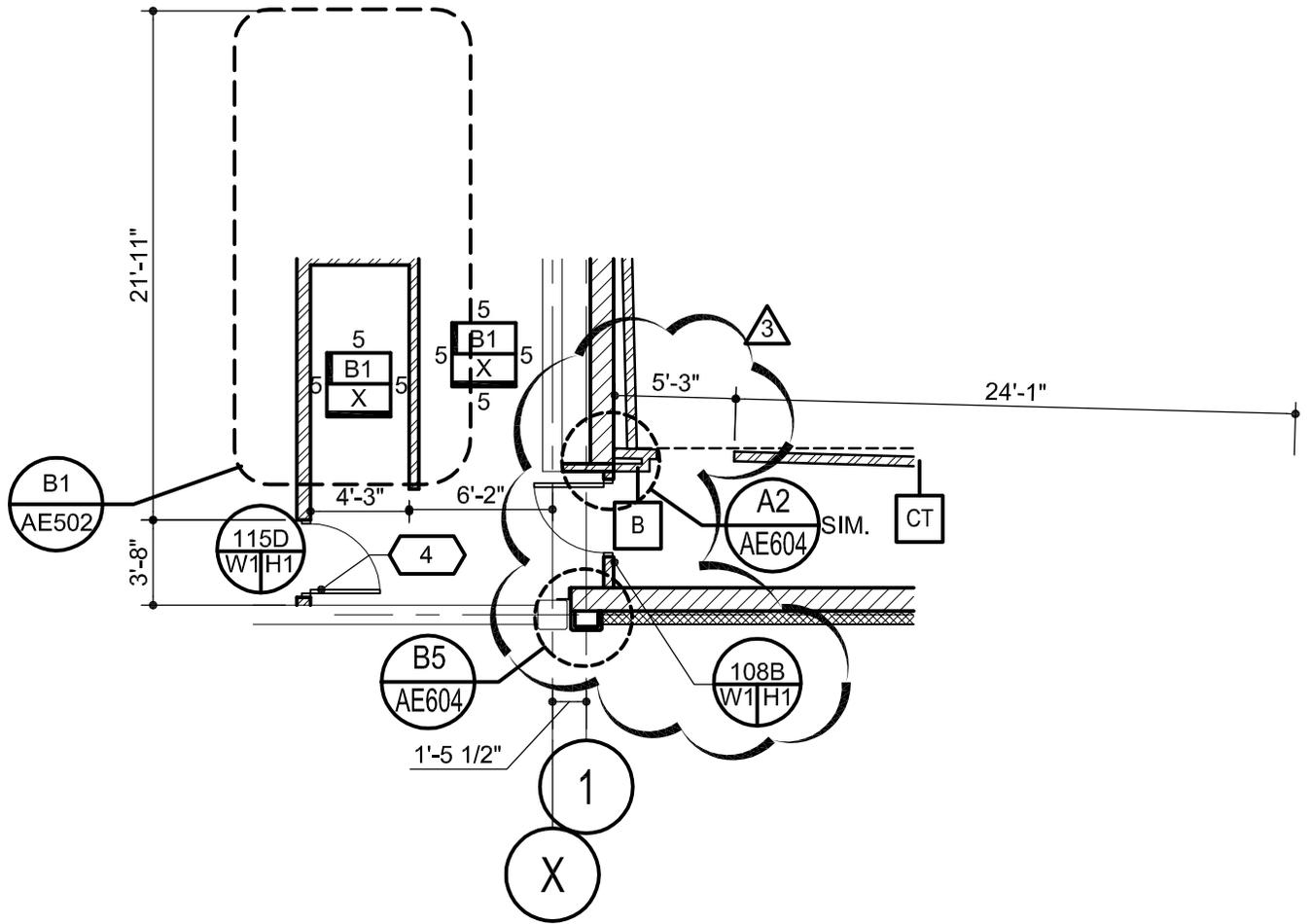


MODIFIED PORTION OF AE001 ADD 3.04

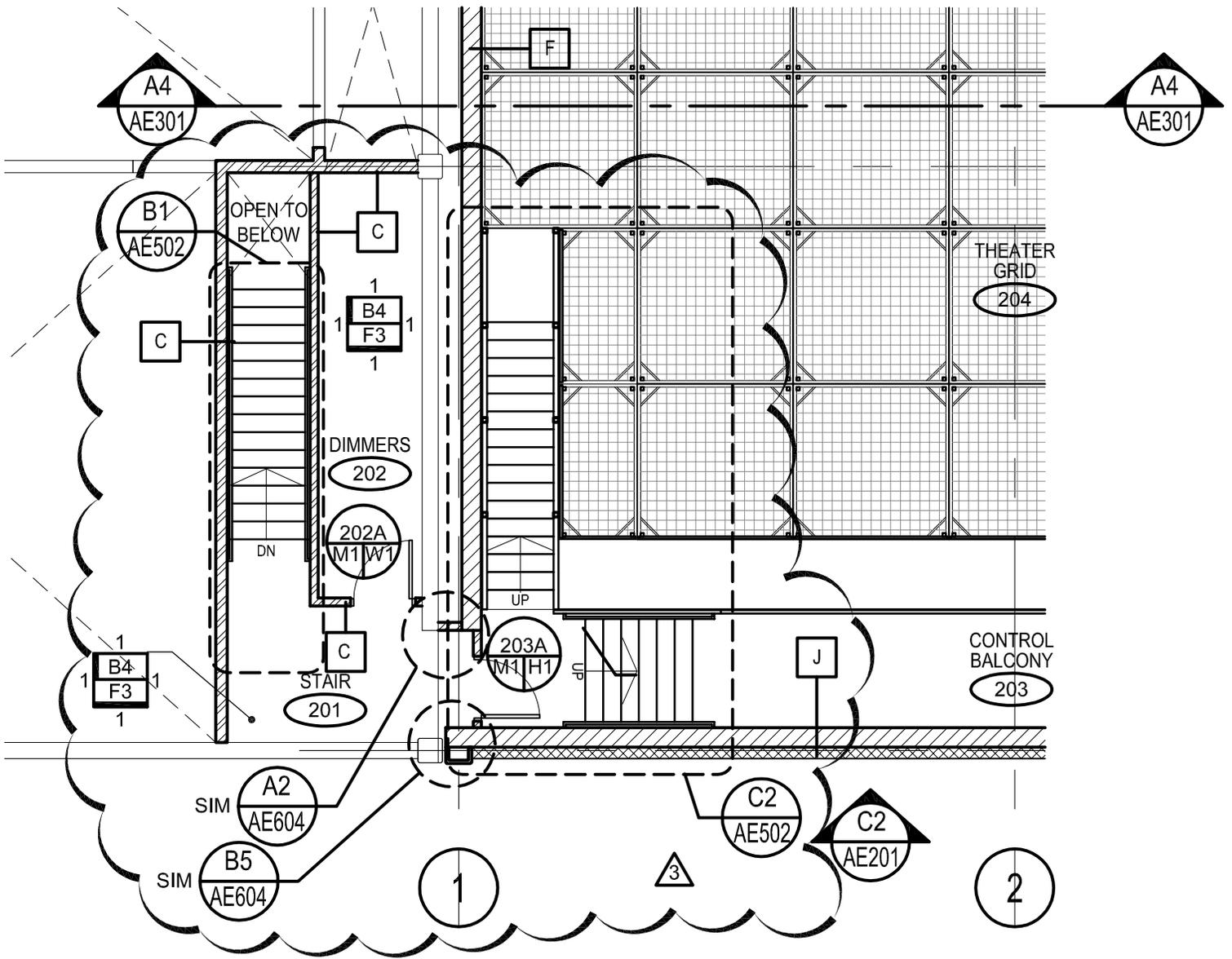


3 5/8" MTL STUD WALL W/ 5/8"
 GYP. EA. SIDE ABOVE EXISTING
 CONCRETE WALL TO BEAM
 ABOVE

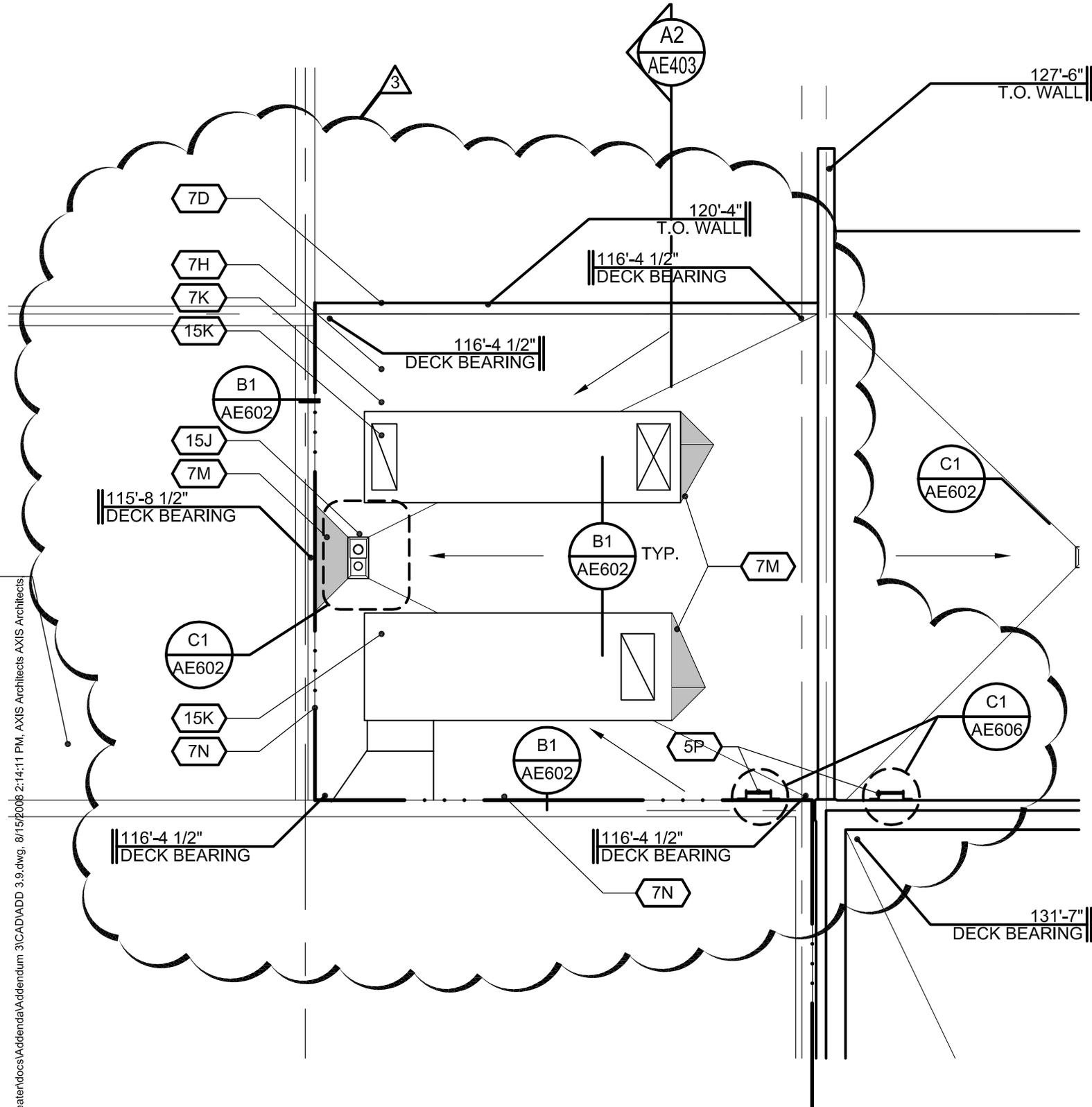
MODIFIED PORTION OF AE101	ADD 3.05
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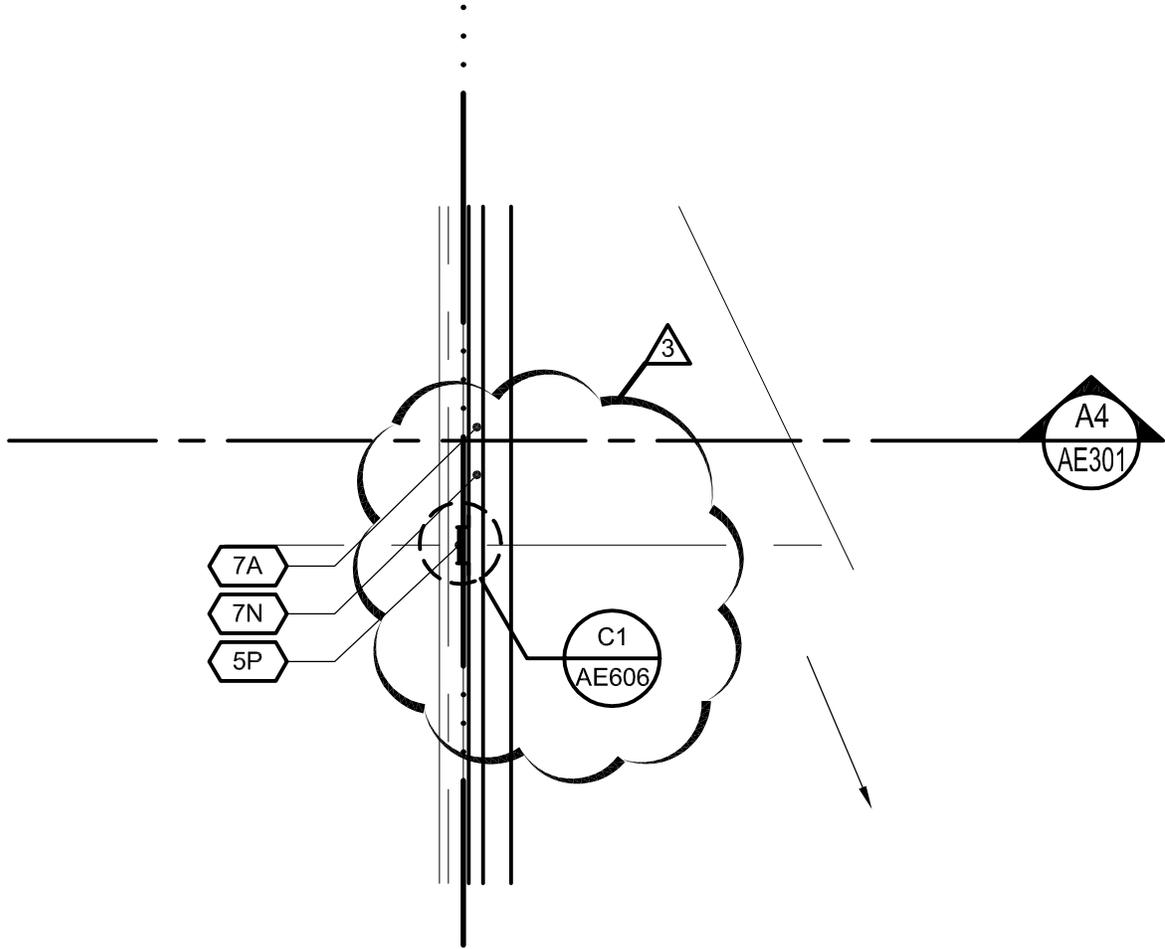
MODIFIED PORTION OF AE101	ADD 3.07
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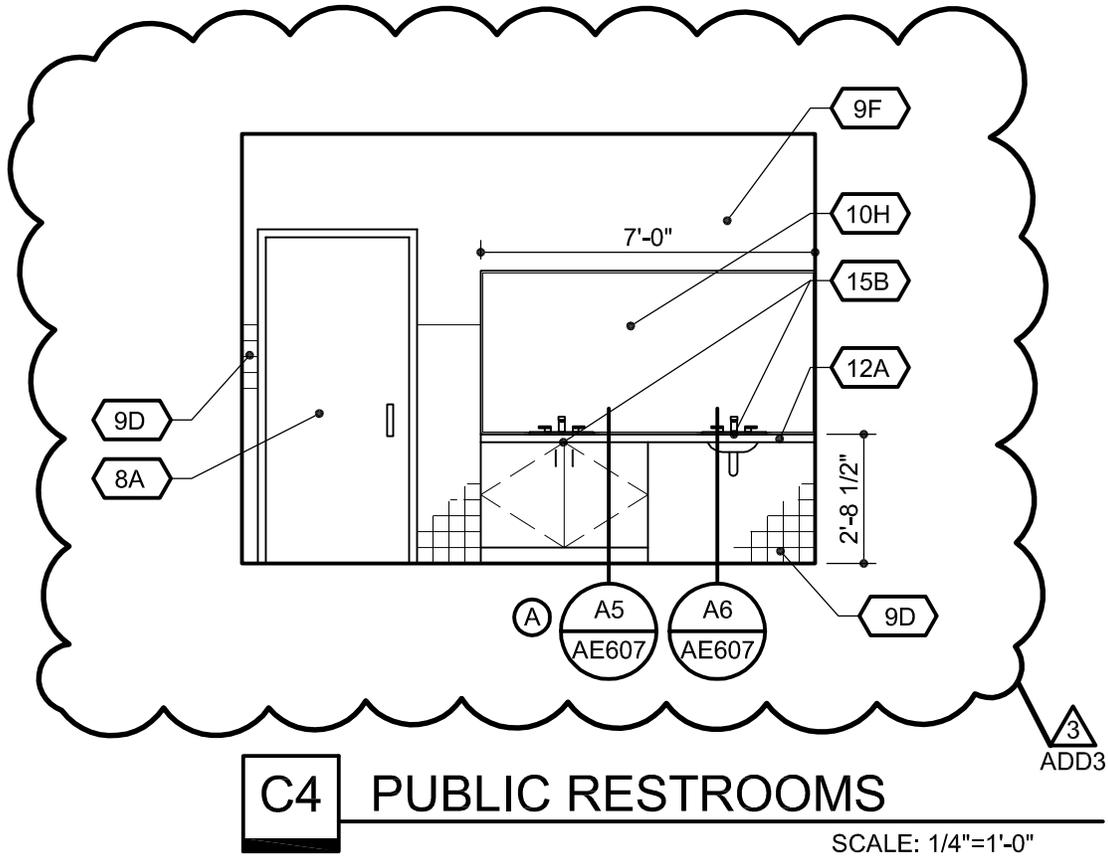
MODIFIED PORTION OF AE102 ADD 3.08



MODIFIED PORTION OF AE122 ADD 3.09



MODIFIED PORTION OF AE122	ADD 3.10
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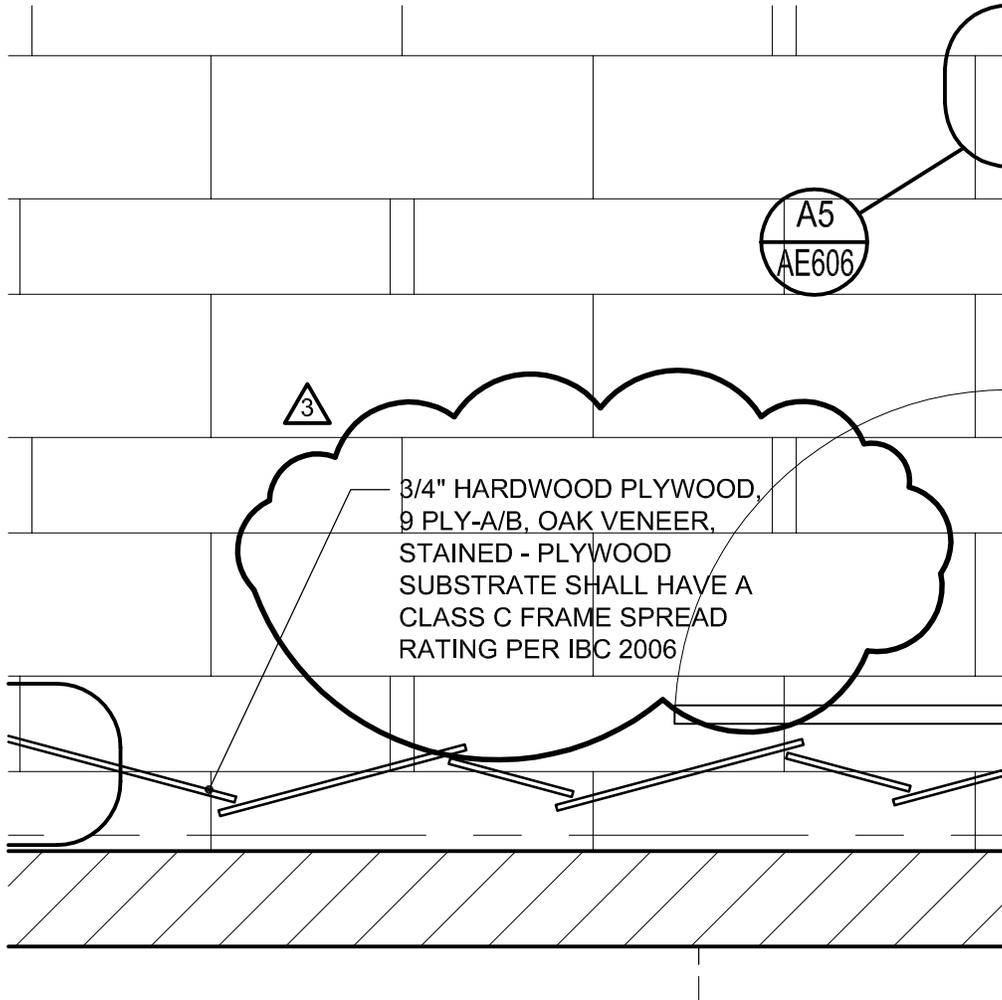


C4 PUBLIC RESTROOMS

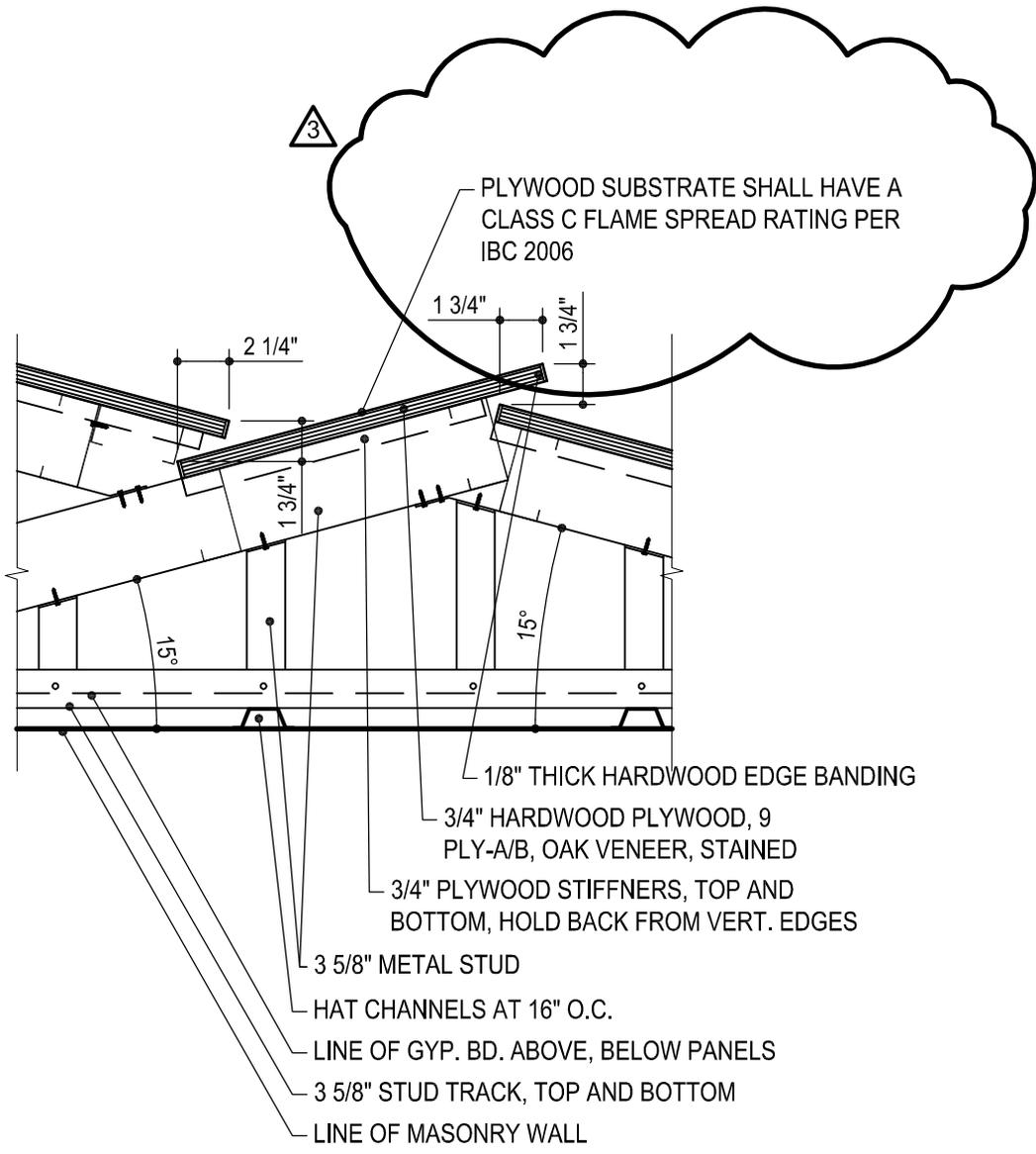
SCALE: 1/4"=1'-0"

MODIFIED PORTION OF AE501

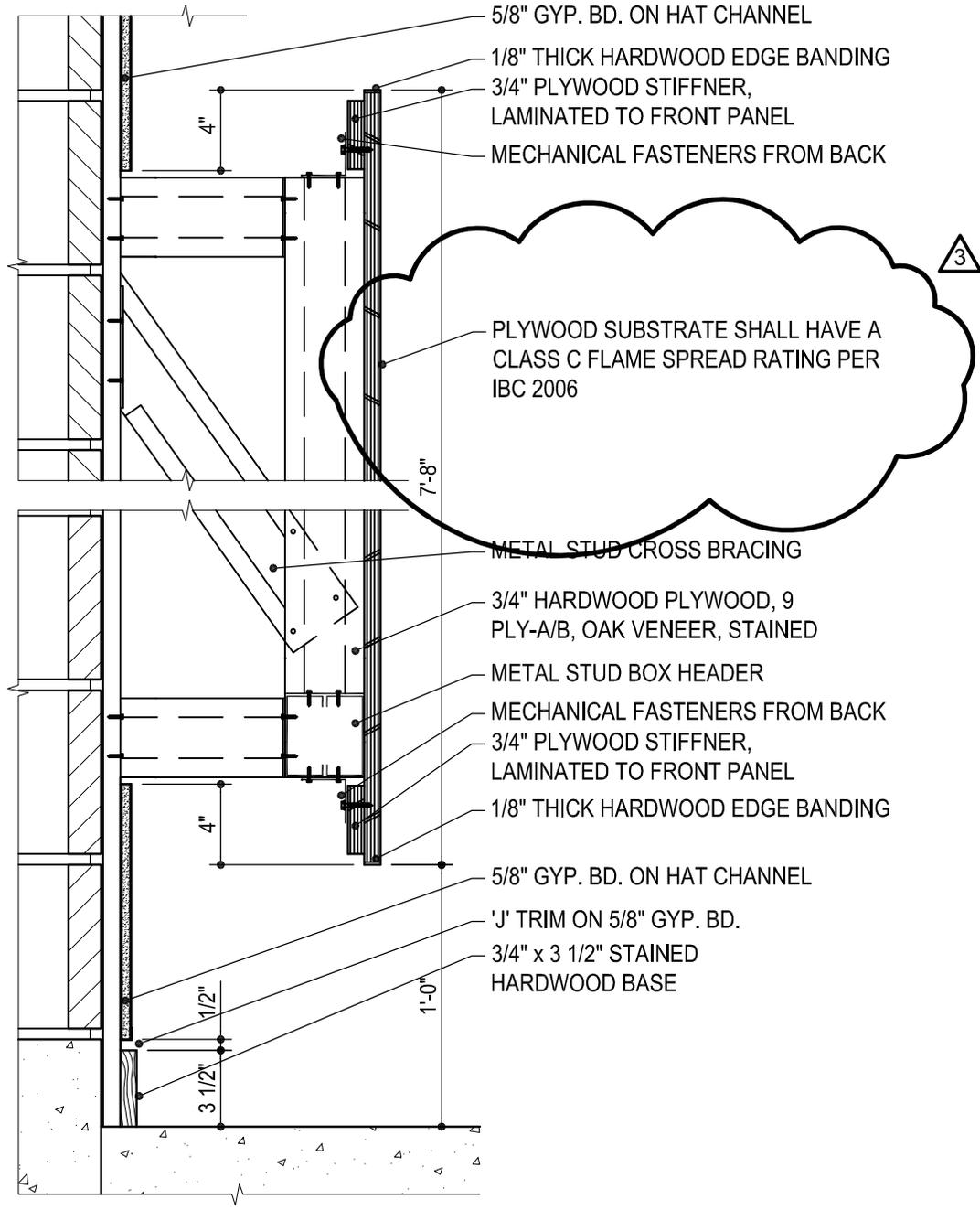
ADD 3.11



MODIFIED PORTION OF AE606	ADD 3.12
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MODIFIED PORTION OF AE606	ADD 3.13
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C2 PLYWOOD DETAIL

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

MODIFIED PORTION OF AE606 ADD 3.14

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Commercial door hardware for the following:
 - a. Swinging doors.
 - b. Other doors to the extent indicated.
 - 2. Cylinders for doors specified in other Sections.
- B. Related Sections include the following:
 - 1. Division 8 Section "Steel Doors and Frames" for astragals provided as part of a fire-rated labeled assembly and for door silencers provided as part of the frame.
- C. Products furnished, but not installed, under this Section include the following. Coordinating, purchasing, delivering, and scheduling remain requirements of this Section.
 - 1. Cylinders for locks on aluminum and glass entrance doors.

1.3 SUBMITTALS

- A. Product Data: Include installation details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening.
 - a. Organize door hardware sets in same order as in the Door Hardware Schedule at the end of Part 3.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of each door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Description of each electrified door hardware function, including location, sequence of operation, and interface with other building control systems.

- 1) Sequence of Operation: Include description of component functions that occur in the following situations: authorized person wants to enter; authorized person wants to exit; unauthorized person wants to enter; unauthorized person wants to exit.
4. Submittal Sequence: Submit initial draft of final schedule along with essential Product Data to facilitate the fabrication of other work that is critical in the Project construction schedule. Submit the final Door Hardware Schedule after Samples, Product Data, coordination with Shop Drawings of other work, delivery schedules, and similar information has been completed and accepted.
- C. Keying Schedule: Prepared by or under the supervision of supplier, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations.
- D. Maintenance Data: For each type of door hardware to include in maintenance manuals specified in Division 1.
- E. Warranties: Special warranties specified in this Section.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who has completed door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- B. Supplier Qualifications: Door hardware supplier with warehousing facilities in Project's vicinity and who is or employs a qualified Architectural Hardware Consultant, available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.
 1. Scheduling Responsibility: Preparation of door hardware and keying schedules.
- C. Architectural Hardware Consultant Qualifications: A person who is currently certified by the Door and Hardware Institute as an Architectural Hardware Consultant and who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project.
- D. Source Limitations: Obtain each type and variety of door hardware from a single manufacturer, unless otherwise indicated.
- E. Regulatory Requirements: Comply with provisions of the following:
 1. Where indicated to comply with accessibility requirements, comply with ANSI A117.1, as follows:
 - a. Handles, Pulls, Latches, Locks, and other Operating Devices: Shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist.
 - b. Door Closers: Comply with the following maximum opening-force requirements indicated:
 - 1) Interior Hinged Doors: 5 lbf (22.2 N) applied perpendicular to door.
 - 2) Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
 - c. Thresholds: Not more than 1/2 inch (13 mm) high. Bevel raised thresholds with a slope of not more than 1:2.
- F. Fire-Rated Door Assemblies: Provide door hardware for assemblies complying with

NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 252.

1. Test Pressure: Test at atmospheric pressure.
- G. Keying Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Meetings." Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:
1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 2. Preliminary key system schematic diagram.
 3. Requirements for key control system.
 4. Address for delivery of keys.
- H. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Meetings." Review methods and procedures related to electrified door hardware including, but not limited to, the following:
1. Inspect and discuss electrical roughing-in and other preparatory work performed by other trades.
 2. Review sequence of operation for each type of electrified door hardware.
 3. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 4. Review required testing, inspecting, and certifying procedures.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver keys to Owner by registered mail or overnight package service.

1.6 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing door hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

1.7 WARRANTY

- A. General Warranty: Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Special Warranty: Written warranty, executed by manufacturer agreeing to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
 2. Faulty operation of operators and door hardware.
 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
- C. Warranty Period: Three years from date of Substantial Completion, unless otherwise indicated.
- D. Warranty Period for Manual Closers: 10 years from date of Substantial Completion.

1.8 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in this Section, and the Door Hardware Schedule at the end of Part 3.
1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and products equivalent in function and comparable in quality to named products.
 2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
- B. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Schedule at the end of Part 3. Products are identified by using door hardware designations, as follows:
1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

2.2 HINGES AND PIVOTS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Hinges:
 - a. Bommer Industries, Inc. (BI).
 - b. IVES Hardware; an Ingersoll-Rand Company (IVS).
 - c. Hager Companies (HAG).
 - d. McKinney Products Company; Div. of ESSEX Industries, Inc. (MCK).
 - e. Stanley Commercial Hardware; Div. of The Stanley Works (STH).
- B. Quantity: Provide the following, unless otherwise indicated:
1. Two Hinges: For doors with heights up to 60 inches (1524 mm).
 2. Three Hinges: For doors with heights 61 to 90 inches (1549 to 2286 mm).
 3. Four Hinges: For doors with heights 91 to 120 inches (2311 to 3048 mm).
 4. For doors with heights more than 120 inches (3048 mm), provide 4 hinges, plus 1 hinge for every 30 inches (750 mm) of door height greater than 120 inches (3048 mm).

mm).

- C. Template Requirements: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template-produced units.
- D. Hinge Base Metal: Unless otherwise indicated, provide the following:
 - 1. Interior Hinges: Brass, with stainless-steel pin body and brass protruding heads.
 - 2. Hinges for Fire-Rated Assemblies: Steel, with steel pin.
- E. Hinge Options: Comply with the following where indicated in the Door Hardware Schedule or on Drawings:
 - 1. Nonremovable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the following applications:
 - a. Outswinging exterior doors.
 - b. Outswinging corridor doors with locks.
 - 2. Corners: Square.
- F. Fasteners: Comply with the following:
 - 1. Machine Screws: For metal doors and frames. Install into drilled and tapped holes.
 - 2. Wood Screws: For wood doors and frames.
 - 3. Threaded-to-the-Head Wood Screws: For fire-rated wood doors.
 - 4. Screws: Phillips flat-head screws; machine screws (drilled and tapped holes) for metal doors, wood screws for wood doors and frames. Finish screw heads to match surface of hinges.

2.3 LOCKS AND LATCHES

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Mechanical Locks and Latches:
 - a. As scheduled and as required to match existing.
- B. Bored Locks: BHMA Grade 1; Series 4000.
- C. Certified Products: Provide door hardware listed in the following BHMA directories:
 - 1. Mechanical Locks and Latches: BHMA's "Directory of Certified Locks & Latches."
- D. Lock Trim: Comply with the following:
 - 1. Lever: Cast.
 - 2. Knob: Wrought.
 - 3. Escutcheon (Rose): Wrought.
 - 4. Dummy Trim: Match lever lock trim and escutcheons.
 - 5. Lockset Designs: Provide the lockset design designated below or, if sets are provided by another manufacturer, provide designs that match those designated:
 - a. Bored Locks: Provide design indicated in schedules.
- E. Lock Functions: Function numbers and descriptions indicated in the Door Hardware Schedule comply with the following:
 - 1. Mortise Locks: BHMA A156.13.
- F. Lock Throw: Comply with testing requirements for length of bolts to comply with labeled fire door requirements, and as follows:

1. Mortise Locks: Minimum **3/4-inch (19-mm)** latchbolt throw.
 2. Deadbolts: Minimum **1-inch (25-mm)** bolt throw.
- G. Backset: **2-3/4 inches (70 mm)**, unless otherwise indicated.

2.4 DOOR BOLTS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Flush Bolts:
 - a. Glynn-Johnson; an Ingersoll-Rand Company (GJ).
 - b. IVES Hardware; an Ingersoll-Rand Company (IVS).
 - c. NT Quality Hardware; an Ingersoll-Rand Company (NTQ).
 - d. Rockwood Manufacturing Company (RM).
- B. Flush Bolts: BHMA Grade 1, designed for mortising into door edge.
- C. Bolt Throw: Comply with testing requirements for length of bolts to comply with labeled fire door requirements, and as follows:
1. Half-Round Surface Bolts: Minimum **7/8-inch (22-mm)** throw.
 2. Interlocking Surface Bolts: Minimum **15/16-inch (24-mm)** throw.
 3. Fire-Rated Surface Bolts: Minimum **1-inch (25-mm)** throw; listed and labeled for fire-rated doors.
 4. Mortise Flush Bolts: Minimum **3/4-inch (19-mm)** throw.

2.5 EXIT DEVICES

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Von Duprin.
 2. Sargent 19-GL-8843 ETL and 19 GL-8500 Series.
 3. Precision 2100 Series
- B. Certified Products: Provide exit devices listed in BHMA's "Directory of Certified Exit Devices."
- C. Panic Exit Devices: Listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305.
- D. Fire Exit Devices: Complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252.
- E. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
1. Operation: Rigid.
- F. Outside Trim: Lever or Lever with cylinder; material and finish to match locksets, unless otherwise indicated.
1. Match design for locksets and latchsets, unless otherwise indicated.
- G. Through Bolts: For exit devices and trim on metal doors, non-fire-rated wood doors, and fire-rated wood doors.

2.6 CYLINDERS AND KEYING

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Cylinders: ASSA, OFCI.
- B. Cylinders: Manufacturer's standard tumbler type, constructed from brass or bronze, stainless steel, or nickel silver, and complying with the following:
 - 1. Number of Pins: Seven.
 - 2. Mortise Type: Threaded cylinders with rings and straight- or clover-type cam.
 - 3. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
- C. Removable Cores: Core insert, removable by use of a special key, and for use with only the core manufacturer's cylinder and door hardware.
- D. Construction Keying: Comply with the following:
 - 1. Construction Cores: Owner will furnish temporary cores.

2.7 STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
 - 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 - 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
- B. Dustproof Strikes: BHMA Grade 1.

2.8 OPERATING TRIM

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Hager Companies (HAG).
 - 2. IVES Hardware; an Ingersoll-Rand Company (IVS).
 - 3. NT Quality Hardware; an Ingersoll-Rand Company (NTQ).
 - 4. Rockwood Manufacturing Company (RM).
 - 5. Stanley Commercial Hardware; Div. of The Stanley Works (STH).
- B. Materials: Fabricate from stainless steel, unless otherwise indicated.
- C. Push-Pull Design: As illustrated on Drawings.

2.9 ACCESSORIES FOR PAIRS OF DOORS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Coordinators:
 - a. Glynn-Johnson; an Ingersoll-Rand Company (GJ).
 - b. Hager Companies (HAG).
 - c. Ives: H. B. Ives (IVS).
 - d. Rockwood Manufacturing Company (RM).

2. Removable Mullions:
 - a. Sargent Manufacturing Company; Div. of ESSEX Industries, Inc. (SGT).
 - b. Von Duprin; an Ingersoll-Rand Company (VD).
- B. Fire-Exit Removable Mullions: Provide removable mullions for use with fire exit devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252. Mullions shall be used only with exit devices for which they have been tested.

2.10 CLOSERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 1. Surface-Mounted Closers:
 - a. LCN
 - b. Sargent 281 Series
 - c. Dorma 6000
- B. Certified Products: Provide door closers listed in BHMA's "Directory of Certified Door Closers."
- C. Hold-Open Closers/Detectors: Coordinate and interface integral smoke detector and closer device with fire alarm system.
- D. Size of Units: Unless otherwise indicated, comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.

2.11 PROTECTIVE TRIM UNITS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 1. Metal Protective Trim Units:
 - a. Hager Companies (HAG).
 - b. NT Quality Hardware; an Ingersoll-Rand Company (NTQ).
 - c. Rockwood Manufacturing Company (RM).
- B. Materials: Fabricate protection plates from the following:
 1. Stainless Steel: 0.050 inch (1.3 mm) thick; beveled top and 2 sides.
- C. Fasteners: Provide manufacturer's standard exposed fasteners for door trim units consisting of either machine or self-tapping screws.
- D. Furnish protection plates sized 2 inches (50.7 mm) less than door width on push side and 1/2 inch (13 mm) less than door width on pull side, by height specified in Door Hardware Schedule.

2.12 STOPS AND HOLDERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Hager Companies (HAG).
 2. NT Quality Hardware; an Ingersoll-Rand Company (NTQ).
 3. Rockwood Manufacturing Company (RM).
- B. Electromagnetic Door Holders for Labeled Fire Door Assemblies: Coordinate with fire detectors and interface with fire alarm system.
- C. Floor Stops: For doors, unless wall or other type stops are scheduled or indicated. Do not mount floor stops where they will impede traffic.
1. Where floor or wall stops are not appropriate, provide overhead holders.
- D. Silencers for Wood Door Frames: BHMA Grade 1; neoprene or rubber, minimum **5/8 by 3/4 inch (16 by 19 mm)**; fabricated for drilled-in application to frame.
- E. Silencers for Metal Door Frames: BHMA Grade 1; neoprene or rubber, minimum diameter **1/2 inch (13 mm)**; fabricated for drilled-in application to frame.

2.13 DOOR GASKETING

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Door Gasketing:
 - a. Hager Companies (HAG).
 - b. National Guard Products, Inc. (NGP).
 - c. Pemko Manufacturing Co., Inc. (PEM).
 - d. Zero International, Inc. (ZRO).
- B. General: Provide continuous weather-strip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated or scheduled. Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.
1. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
 2. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
 3. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.
- C. Air Leakage: Not to exceed **0.50 cfm per foot (0.000774 cu. m/s per m)** of crack length for gasketing other than for smoke control, as tested according to ASTM E 283.
- D. Smoke-Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke-control ratings indicated, based on testing according to UL 1784.
1. Provide smoke-labeled gasketing on 20-minute-rated doors and on smoke-labeled doors.
- E. Fire-Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL 10B or NFPA 252.
- F. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- G. Gasketing Materials: Comply with ASTM D 2000 and AAMA 701/702.

2.14 THRESHOLDS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Hager Companies (HAG).
 2. National Guard Products, Inc. (NGP).
 3. Pemko Manufacturing Co., Inc. (PEM).
 4. Reese Enterprises, Inc. (RE).

2.15 FABRICATION

- A. Manufacturer's Nameplate: Do not provide manufacturers' products that have manufacturer's name or trade name displayed in a visible location (omit removable nameplates) except in conjunction with required fire-rated labels and as otherwise approved by Architect.
1. Manufacturer's identification will be permitted on rim of lock cylinders only.
- B. Base Metals: Produce door hardware units of base metal, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18 for finishes. Do not furnish manufacturer's standard materials or forming methods if different from specified standard.
- C. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to commercially recognized industry standards for application intended. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.
1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.
 2. Steel Machine or Wood Screws: For the following fire-rated applications:
 - a. Mortise hinges to doors.
 - b. Strike plates to frames.
 - c. Closers to doors and frames.
 3. Steel Through Bolts: For the following fire-rated applications, unless door blocking is provided:
 - a. Surface hinges to doors.
 - b. Closers to doors and frames.
 - c. Surface-mounted exit devices.
 4. Spacers or Sex Bolts: For through bolting of hollow metal doors.
 5. Fasteners for Wood Doors: Comply with requirements of DHI WDHS.2, "Recommended Fasteners for Wood Doors."

2.16 FINISHES

- A. Standard: Comply with BHMA A156.18.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable,

temporary protective covering before shipping.

- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Steel Doors and Frames: Comply with DHI A115 series.
 - 1. Surface-Applied Door Hardware: Drill and tap doors and frames according to SDI 107.
- B. Wood Doors: Comply with DHI A115-W series.

3.3 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
 - 1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
 - 2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- C. Key Control System: Place keys on markers and hooks in key control system cabinet, as determined by final keying schedule.
- D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

3.4 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
 - 2. Door Closers: Adjust sweep period so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point **3 inches (75 mm)** from the latch, measured to the leading edge of the door.

- B. Six-Month Adjustment: Approximately six months after date of Substantial Completion, Installer shall perform the following:
 - 1. Examine and readjust each item of door hardware as necessary to ensure function of doors, door hardware, and electrified door hardware.
 - 2. Consult with and instruct Owner's personnel on recommended maintenance procedures.
 - 3. Replace door hardware items that have deteriorated or failed due to faulty design, materials, or installation of door hardware units.

3.5 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.6 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes.

3.7 DOOR HARDWARE SCHEDULE

SEE ATTACHED HARDWARE SCHEDULE

End of section 08 71 00

HARDWARE SCHEDULE

August 16, 2008

HW SET: 01

DOOR NUMBER:

001A 002A 114B

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	112HD	612	IVE
1	EA	PANIC HARDWARE	98L 996L	612	VON
1	EA	RIM CYLINDER	34	613	SAR
1	EA	SURFACE CLOSER	4041 EDA MC	691	LCN
1	EA	OVERHEAD STOP	100S-ADJ	613	GLY
1	EA	KICK PLATE	8400 10" X 2" LDW	612	IVE
1		SET SEALS	700SA	DKB	NGP
1	EA	DOOR SWEEP	C627A	DKB	NGP
1	EA	THRESHOLD	425HD	DKB	NGP

HW SET: 02

DOOR NUMBER:

106C 108A 108B

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	639	IVE
1	EA	FIRE EXIT	98L-F 996L	612	VON
		HARDWARE			
1	EA	RIM CYLINDER	34	613	SAR
1	EA	SURFACE CLOSER	4041 EDA MC	691	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	612	IVE
1	EA	WALL STOP	WS401CCV	612	IVE
1		SET SEALS	122NA	DKB	NGP
1	EA	DOOR BOTTOM	220NA	DKB	NGP

HW SET: 03

DOOR NUMBER:

112A 113A

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	639	IVE
1	EA	PASSAGE SET	28-10U15 LL	612	SAR

1	EA	SURFACE CLOSER	4041 EDA MC	691	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	612	IVE
1	EA	WALL STOP	WS401CCV	612	IVE
1		SET SEALS	155S	AL	NGP

HW SET: 04

DOOR NUMBER:

110A 128 133 202A 203A

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	639	IVE
1	EA	ENTRANCE LOCK	28-10G05 LL	612	SAR
1	EA	SURFACE CLOSER	4041 REG	691	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	612	IVE
1	EA	WALL STOP	WS401CCV	612	IVE
1		SET SEALS	155S	AL	NGP

HW SET: 05

DOOR NUMBER:

106A 106B

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	112HD	612	IVE
1	EA	PUSH PLATE	8200 8" X 16"	612	IVE
1	EA	PULL PLATE	8305-0 4" X 16"	612	IVE
1	EA	SURFACE CLOSER	4041 EDA MC	691	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	612	IVE
1	EA	WALL STOP	WS401CCV	612	IVE
1		SET SEALS	122NA	DKB	NGP
1	EA	DOOR BOTTOM	220NA	DKB	NGP

HW SET: 06

DOOR NUMBER:

125A 125B 125C

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	612	IVE
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1	EA	PUSH PLATE	8200 8" X 16"	612	IVE
1	EA	PULL PLATE	8305-0 4" X 16"	612	IVE
1	EA	SURFACE CLOSER	4041 EDA MC	691	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	612	IVE
1	EA	WALL STOP	WS401CCV	612	IVE
1		SET SEALS	122NA	DKB	NGP
1	EA	DOOR BOTTOM	220NA	DKB	NGP

HW SET: 07

DOOR NUMBER:

002C 114C 118A

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	639	IVE
1	EA	PANIC HARDWARE	98L 996L	612	VON
1	EA	RIM CYLINDER	34	613	SAR
1	EA	SURFACE CLOSER	4041 EDA MC	691	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	612	IVE
1	EA	WALL STOP	WS401CCV	612	IVE
1		SET SEALS	5020B	BRN	NGP

HW SET: 08

DOOR NUMBER:

117A

EACH TO HAVE:

6	EA	HINGE	5BB1 4.5 X 4.5 NRP	639	IVE
2	EA	MANUAL FLUSH BOLT	FB458	612	IVE
1	EA	DUST PROOF STRIKE	DP2	612	IVE
1	EA	ENTRANCE LOCK	28-10G05 LL	612	SAR
2	EA	OVERHEAD STOP	900S-J	612	GLY
2	EA	KICK PLATE	8400 10" X 2" LDW	612	IVE
2	EA	SILENCER	SR64	GRY	IVE

HW SET: 09

DOOR NUMBER:

115A	115B	115C	115D	116B	116C
119	122A	123A	123C	127A	129
131A	132				

EACH TO HAVE:

3	EA HINGE	5BB1 4.5 X 4.5 NRP	639	IVE
1	EA CLASSROOM LOCK	28-10G37 LL	612	SAR
1	EA SURFACE CLOSER	4041 EDA MC / 4041 REG MC	691	LCN
1	EA KICK PLATE	8400 10" X 2" LDW	612	IVE
1	EA WALL STOP	WS401CCV	612	IVE
1	SET SEALS	5020B		BRN NGP

HW SET: 10

DOOR NUMBER:

101A 102A

EACH TO HAVE:

3	EA HINGE	5BB1 4.5 X 4.5	612	IVE
1	EA STOREROOM LOCK	28-10G04 LL	612	SAR
1	EA SURFACE CLOSER	4041 REG	691	LCN
1	EA KICK PLATE	8400 10" X 2" LDW	612	IVE
1	EA WALL STOP	WS401CCV	612	IVE
3	EA SILENCER	SR64		GRY IVE

HW SET: 11

DOOR NUMBER:

130A

EACH TO HAVE:

3	EA HINGE	5BB1 4.5 X 4.5	612	IVE
1	EA STOREROOM LOCK	28-10G04 LL	612	SAR
1	EA KICK PLATE	8400 10" X 2" LDW	612	IVE
1	EA WALL STOP	WS401CCV	612	IVE
3	EA SILENCER	SR64		GRY IVE

HW SET: 12

DOOR NUMBER:

120 121A

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	639	IVE
1	EA	PRIVACY SET	28-10U65 LL	612	SAR
1	EA	KICK PLATE	8400 10" X 2" LDW	612	IVE
1	EA	WALL STOP	WS401CCV	612	IVE
3	EA	SILENCER	SR64		GRY IVE

HW SET: 13

DOOR NUMBER:

002B 108E 114A 116A 116D 123B

EACH TO HAVE:

1		HARDWARE BY DOOR MFG			B/O
---	--	----------------------	--	--	-----

HW SET: 14

DOOR NUMBER:

116E

EACH TO HAVE:

1		RE-USE EXISTING HARDWARE			
---	--	--------------------------	--	--	--

HW SET: A

DOOR NUMBER:

100A 105A

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	112HD	313	IVE
1	EA	MULLION	5754	313	VON
1	EA	PANIC HARDWARE	CD35A-EO	313	VON
1	EA	PANIC HARDWARE	CD35A-NL-OP	313	VON
1	EA	RIM CYLINDER	34	613	SAR
3	EA	MTSE CYL, SGT CAM	41	613	SAR
2	EA	OFFSET DOOR PULL	8190-0	313	IVE
2	EA	SURFACE CLOSER	4041 EDA X 18 MC	695	LCN
2	EA	OVERHEAD STOP	100S-ADJ	613	GLY

1 THRESHOLD AND PERIMETER SEAL BY B/O
DOOR MFG

HW SET: B
DOOR NUMBER:
100B

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	112HD	313	IVE
2	EA	DUMMY TOUCH BAR	350	313	VON
2	EA	OFFSET DOOR PULL	8190-0	313	IVE
2	EA	SURFACE CLOSER	4041 EDA X 18 MC	695	LCN
2	EA	OVERHEAD STOP	100S-ADJ	613	GLY
1		THRESHOLD AND PERIMETER SEAL BY			B/O
		DOOR MFG			

END OF HARDWARE SCHEDULE



**SPECTRUM
ENGINEERS**

Doing what's right: yesterday, today and tomorrow

Addendum #3

Job: UVU Noorda Theatre
Job Number: 20080324
Date: August 15, 2008

THEATER EQUIPMENT – DIV 26

DRAWINGS

SHEET - QT 401

1. Add this Note as Sheet Note #2: Outside (of the) Black Box Theatre see “E” series sheet for lighting, fire alarm, power, exit lighting, etc.

TECHNOLOGY – DIV 27

DRAWINGS

SHEET - TA301: Add this sheet note as Sheet Note #1: All acoustical materials on wall and ceiling must comply with IBC 2006 Table 803.5.

Utah Valley University
Noorda Theatre

Structural Addendum #2
August 14, 2008

Sheet SE100

1. The roof dead load in note I, B2, A is 30 psf.

Sheet SE101

1. See attached partial plan.

Sheet SE103

1. See attached partial plan.

Sheet SE301

1. In detail 2/SE301, the concrete foundation wall shall be 18" thick reinforced as per the general notes.
2. See revised detail 9/SE301.

Sheet SE302

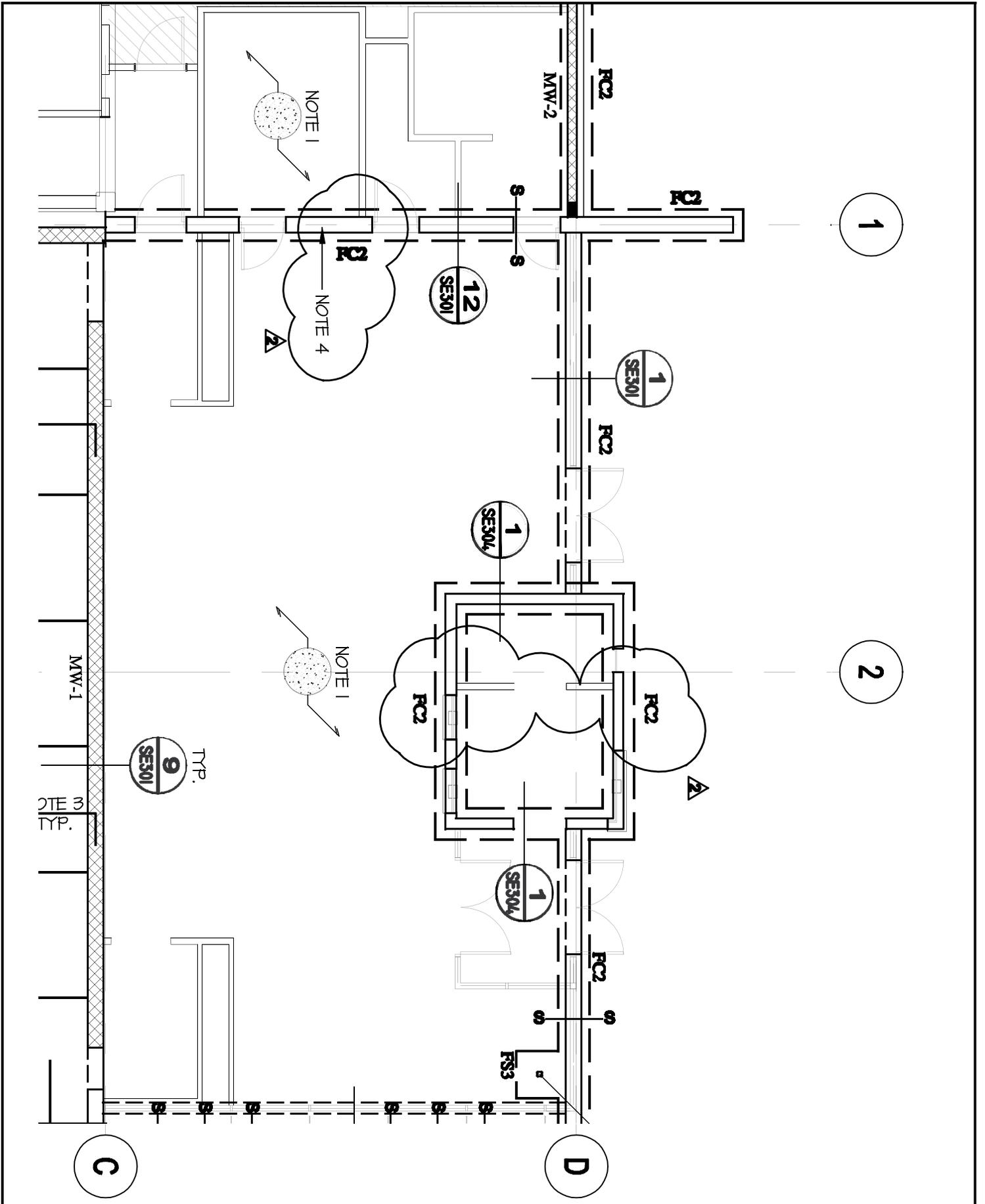
1. The masonry wall in detail 1, 2, and 3/SE302 shall be 12" thick with brick veneer anchored as per the typical details.
2. See revised detail 8/SE302.

Sheet SE303

1. See revised details 8/SE303 and 9/SE303.

Sheet SE304

1. See now details 6, 7, and 8/SE304.



**UTAH VALLEY UNIVERSITY
NOORDA THEATRE**

Omni, UT

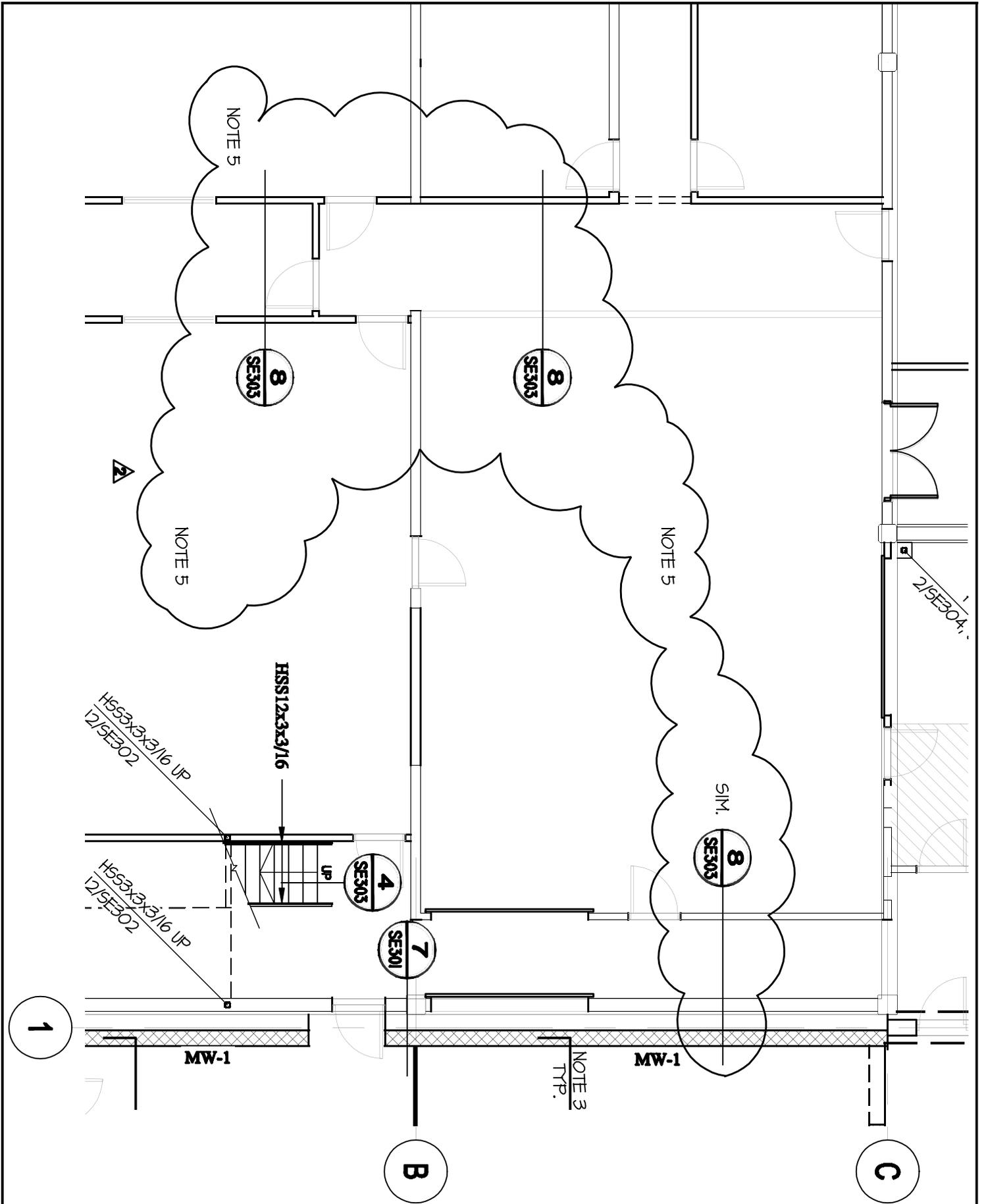
DRAWING TITLE

PARTIAL PLAN SHEET S101

ADDENDUM #2

DATE: 08-14-2008

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



**UTAH VALLEY UNIVERSITY
NOORDA THEATRE**

Gen., UT

DRAWING TITLE

PARTIAL PLAN SHEET S101

ADDENDUM #2

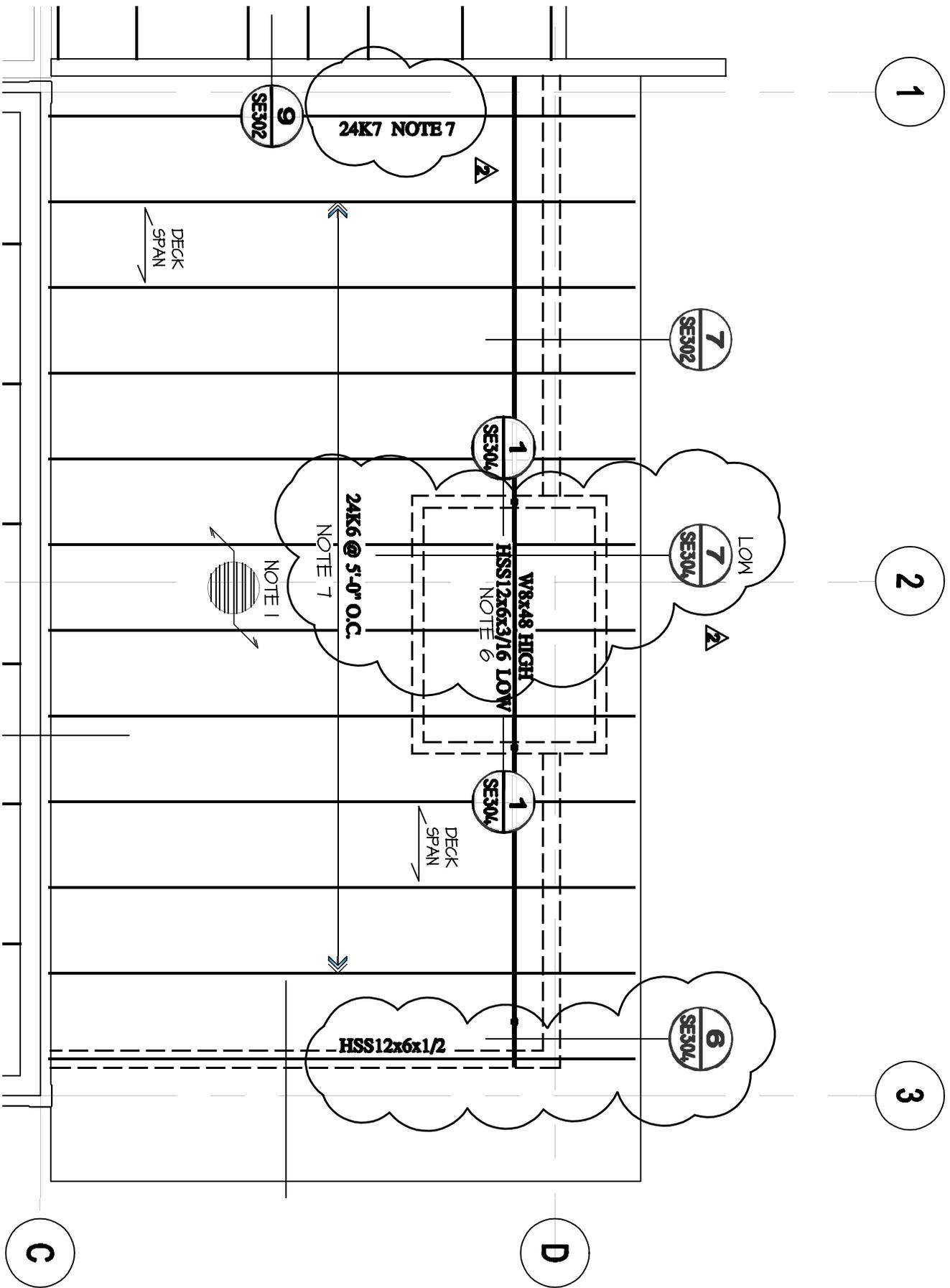
DATE: 08-14-2008

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

PLAN NOTES

1. 4" CONCRETE SLAB ON GRADE OVER 4" GRAVEL BASE.
2. 5 1/4" LIGHTWEIGHT CONCRETE SLAB ON 2" x 20 GAGE METAL DECK (3-SPANS MIN.) ALL BEAMS SHALL HAVE 3/4" DIA. x 4" WELDED HEADED ANCHORS @ 12" O.C.
3. #4 x 24" x 12" SLAB DOWELS @ 24" O.C. TYPICAL.
4. 12" CONCRETE WALL REINFORCED AS PER GENERAL NOTES. REINFORCE AROUND OPENINGS AS PER 7/SE501.
5. LIVE LOAD SHALL BE LIMITED TO 100psf IN THESE AREAS.





UTAH VALLEY UNIVERSITY
NOORDA THEATRE

Gen., UT

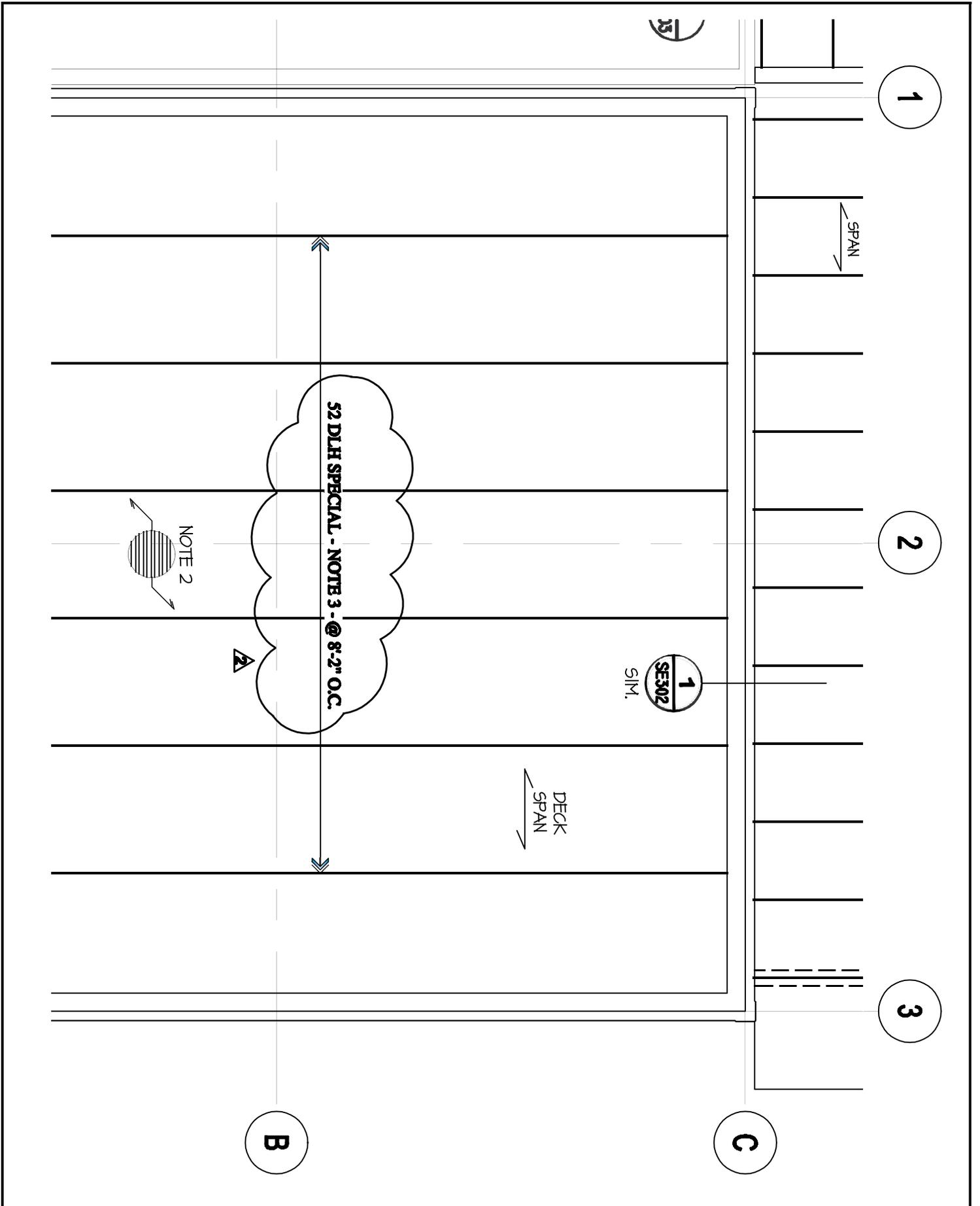
DRAWING TITLE

PARTIAL PLAN SHEET S103

ADDENDUM #2

DATE: 08-14-2008

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



UTAH VALLEY UNIVERSITY
NOORDA THEATRE

Over, UT

DRAWING TITLE

PARTIAL PLAN SHEET S103

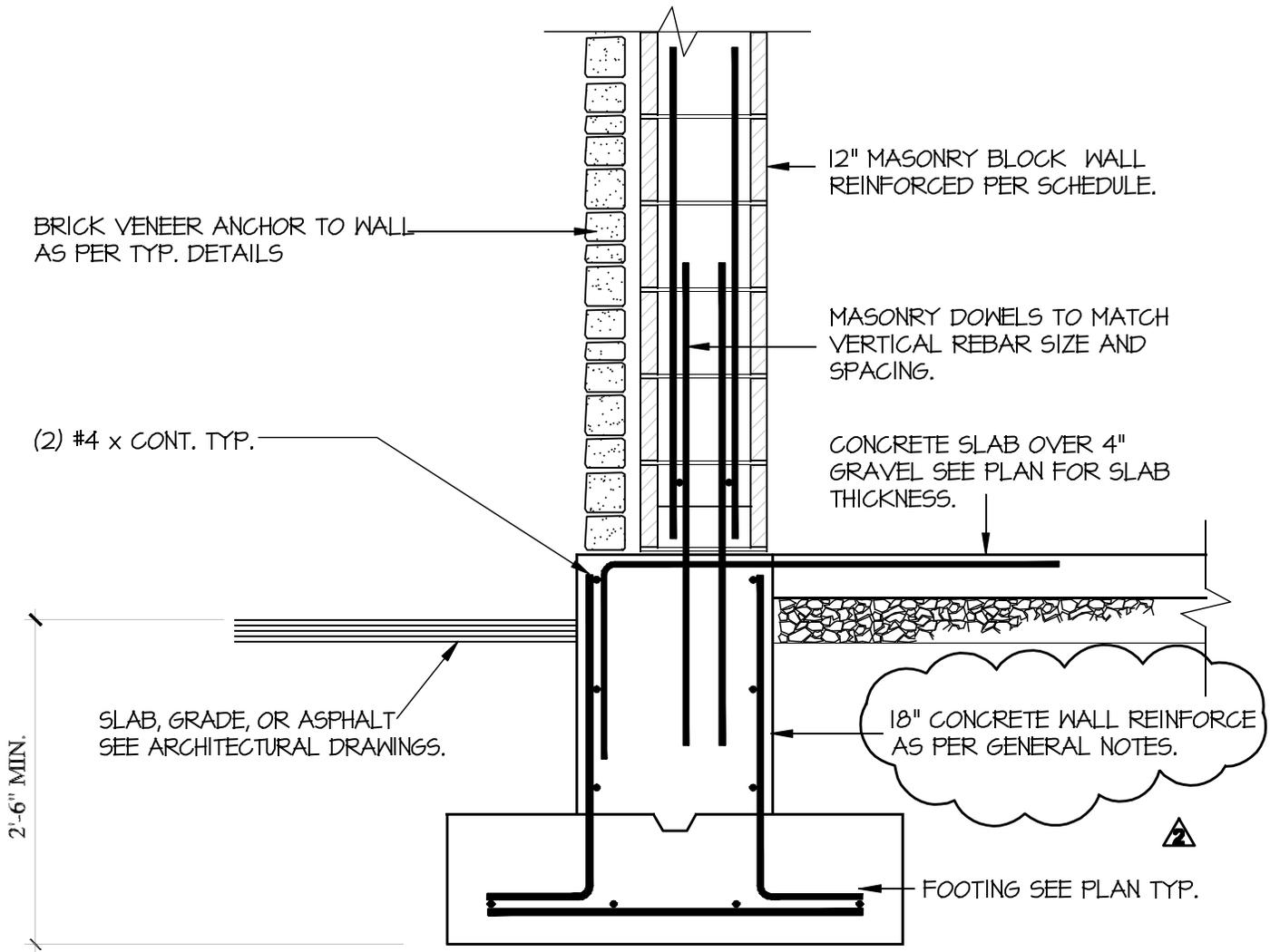
ADDENDUM #2

DATE: 08-14-2008

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

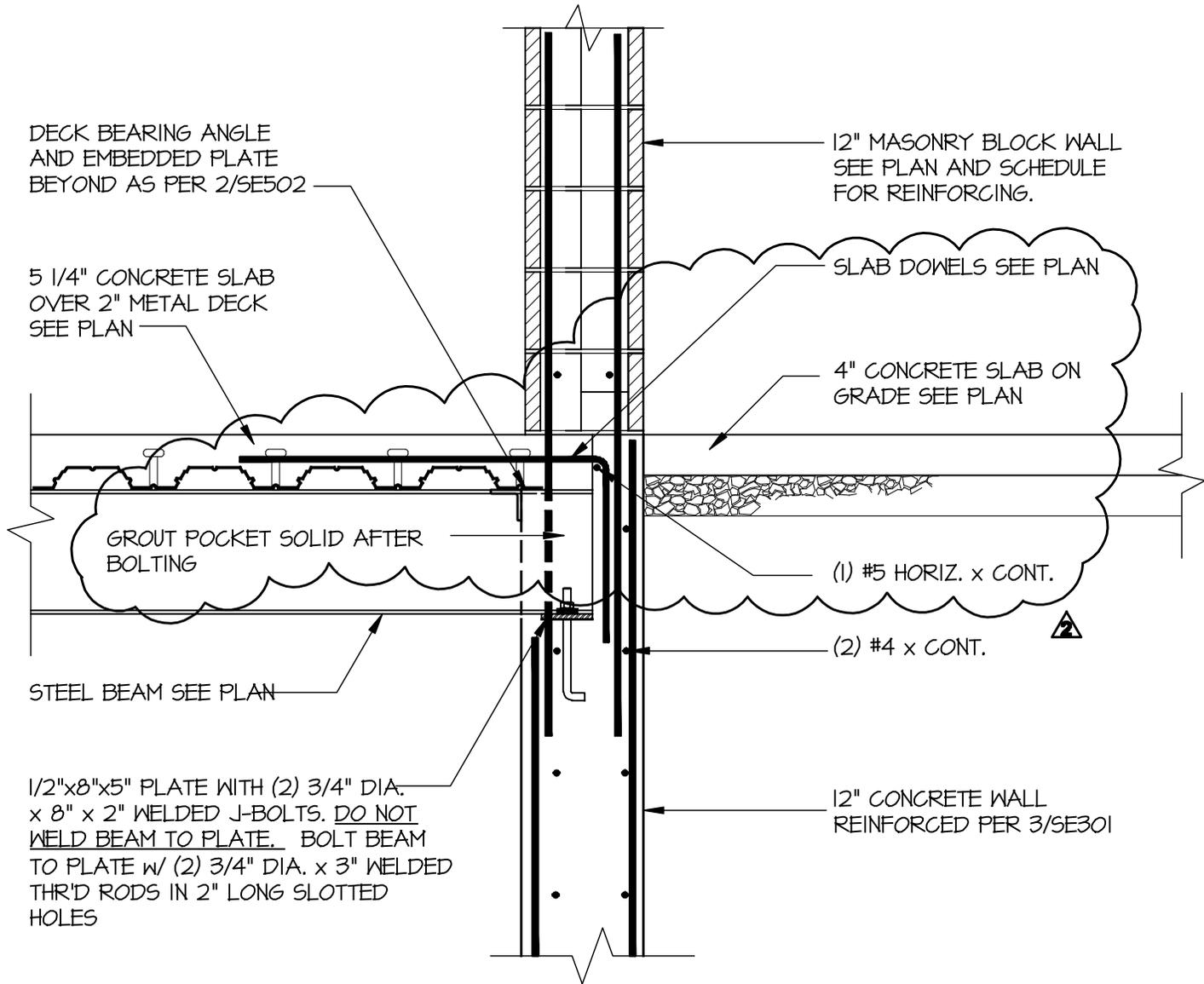
PLAN NOTES

1. 1/2" x 20 GAGE METAL ROOF DECK (3-SPANS MIN.)
2. 3" x 20 GAGE N-DECK (3-SPANS MIN.)
3. 52 DLHIS SPECIAL OPEN WEB STEEL JOISTS. 5/4/2TOPIF TL/L TOP CHORD LOAD AND 1300# DL / 6700# LL BOTTOM CHORD POINT LOADS @ 8'-2" O.C. COORDINATE BOTTOM CHORD LOAD LOCATIONS / SPACING WITH SUSPENDED RIGGING PLAN. LIMIT DEFLECTION TO 1.0" FROM 6700# LIVE LOADS PLUS HALF OF TOP CHORD LOAD. SEE RIGGING DRAWINGS FOR RIGGING CONNECTION TO BOTTOM CHORD. 
4. REINFORCE JOIST AS PER DETAILS 1/5E303 AND 2/5303. 
5. ROOF TOP MECHANICAL UNIT. SEE MECHANICAL PLANS FOR EXACT LOCATION.
6. LON BEAM OVER BOX OFFICE SEE DETAILS 1/5E304 AND 7/5304. 
7. SEE DETAIL 7/5E302 FOR BOTTOM CHORD LIMIT AT NORTH END. 



2
 SCALE: 3/4" = 1'-0" SE301

UTAH VALLEY UNIVERSITY NOORDA THEATRE <small>Gen., UT</small>	DRAWING TITLE: STRUCTURAL DETAIL		
	ADDENDUM #2	DATE: 08-14-2008	SCALE: 3/4" = 1'-0"



DECK BEARING ANGLE
AND EMBEDDED PLATE
BEYOND AS PER 2/SE502

5 1/4" CONCRETE SLAB
OVER 2" METAL DECK
SEE PLAN

GROUT POCKET SOLID AFTER
BOLTING

STEEL BEAM SEE PLAN

1/2"x8"x5" PLATE WITH (2) 3/4" DIA.
x 8" x 2" WELDED J-BOLTS. DO NOT
WELD BEAM TO PLATE. BOLT BEAM
TO PLATE w/ (2) 3/4" DIA. x 3" WELDED
THR'D RODS IN 2" LONG SLOTTED
HOLES

12" MASONRY BLOCK WALL
SEE PLAN AND SCHEDULE
FOR REINFORCING.

SLAB DOWELS SEE PLAN

4" CONCRETE SLAB ON
GRADE SEE PLAN

(1) #5 HORIZ. x CONT.

(2) #4 x CONT.

12" CONCRETE WALL
REINFORCED PER 3/SE301

9
 SCALE: 3/4" = 1'-0" SE301

UTAH VALLEY UNIVERSITY
NOORDA THEATRE

Gen., UT

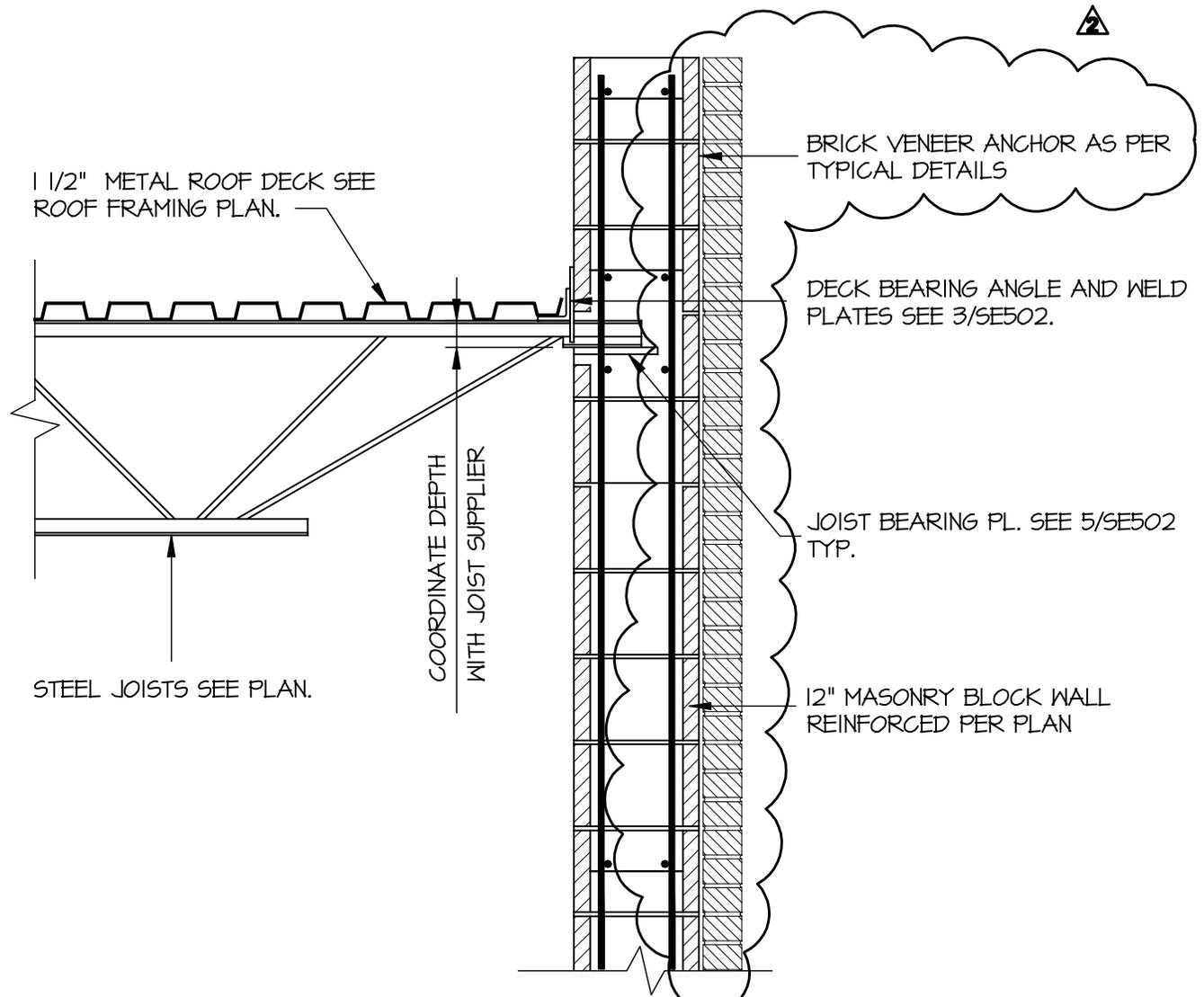
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STRUCTURAL DETAIL

ADDENDUM #2

DATE: 08-14-2008

SCALE: 3/4" = 1'-0"



UTAH VALLEY UNIVERSITY
NOORDA THEATRE

Gen., UT

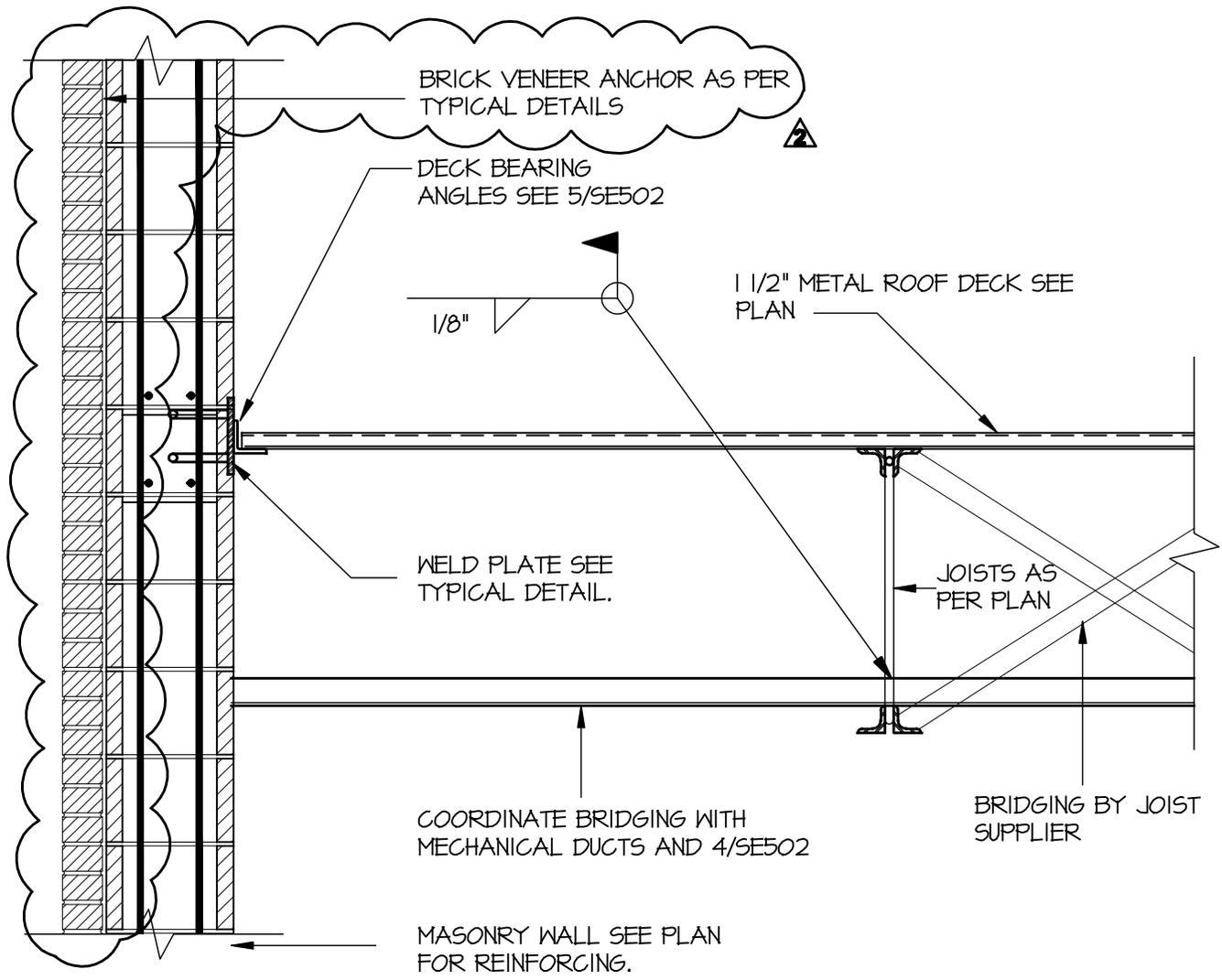
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ADDENDUM #2

DATE: 08-14-2008

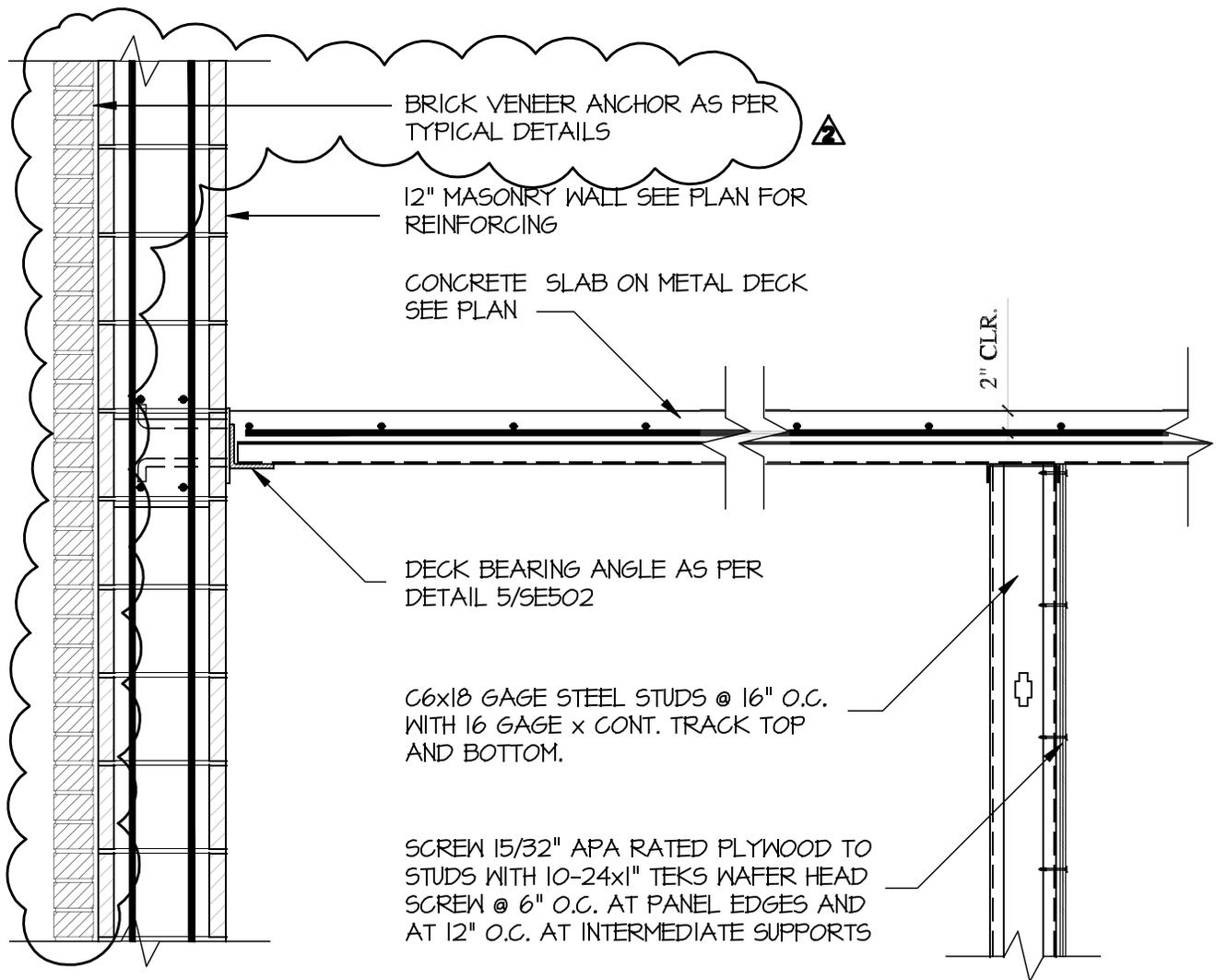
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2
 SCALE: 3/4" = 1'-0" SE302

UTAH VALLEY UNIVERSITY
NOORDA THEATRE
Orsm, UT

DRAWING TITLE:		STRUCTURAL DETAIL	
ADDENDUM #2	DATE: 08-14-2008	SCALE: 3/4" = 1'-0"	



3
 SCALE: 3/4" = 1'-0" SE302

UTAH VALLEY UNIVERSITY
NOORDA THEATRE

Gen., UT

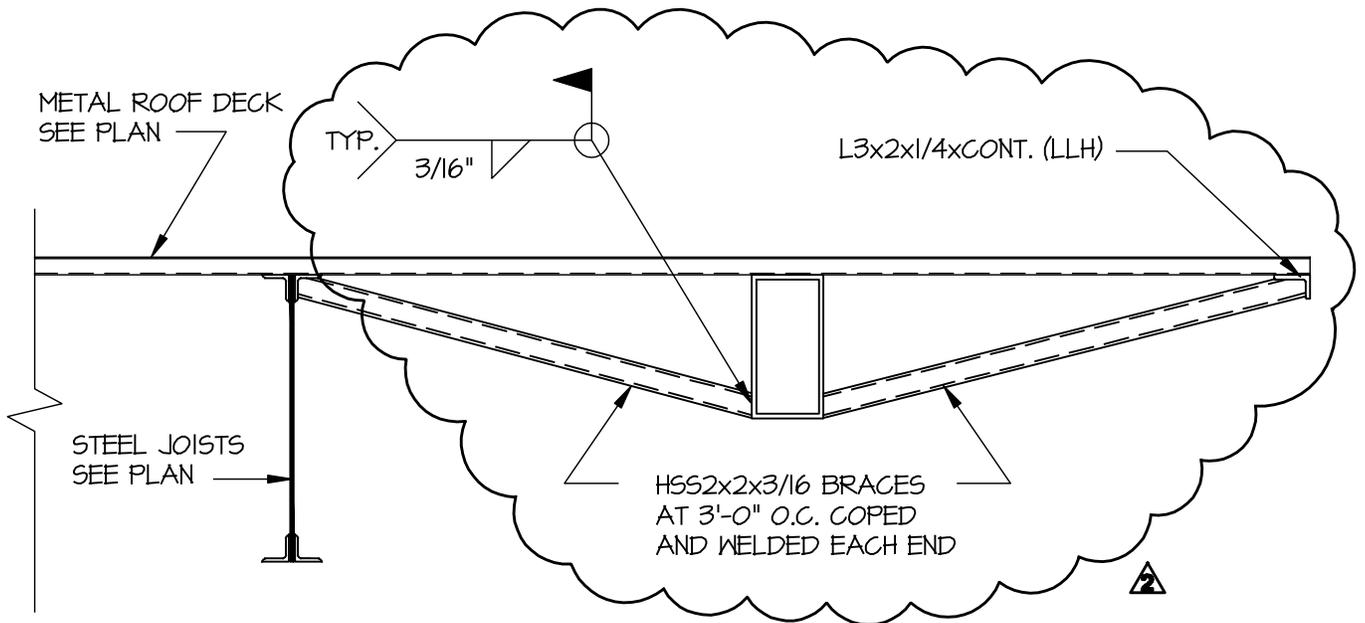
DRAWING TITLE

STRUCTURAL DETAIL

ADDENDUM #2

DATE: 08-14-2008

SCALE: 3/4" = 1'-0"



8
 SCALE: 3/4" = 1'-0" SE302

UTAH VALLEY UNIVERSITY
NOORDA THEATRE
Gen., UT

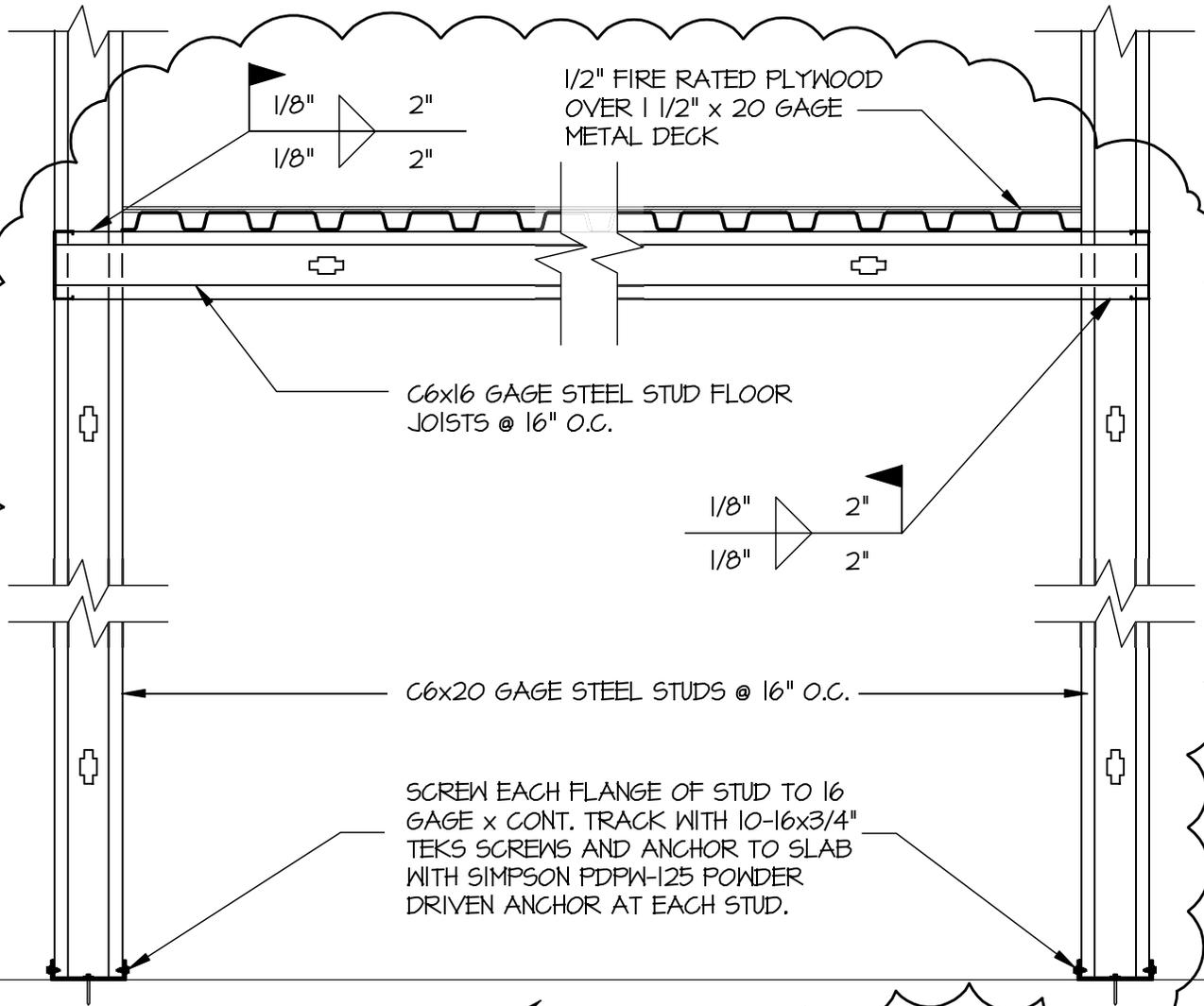
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STRUCTURAL DETAIL

ADDENDUM #2

DATE: 08-14-2008

SCALE: 3/4" = 1'-0"



EXISTING CONCRETE SLAB



8

SCALE: 3/4" = 1'-0" SE303

UTAH VALLEY UNIVERSITY
NOORDA THEATRE
Ogden, UT

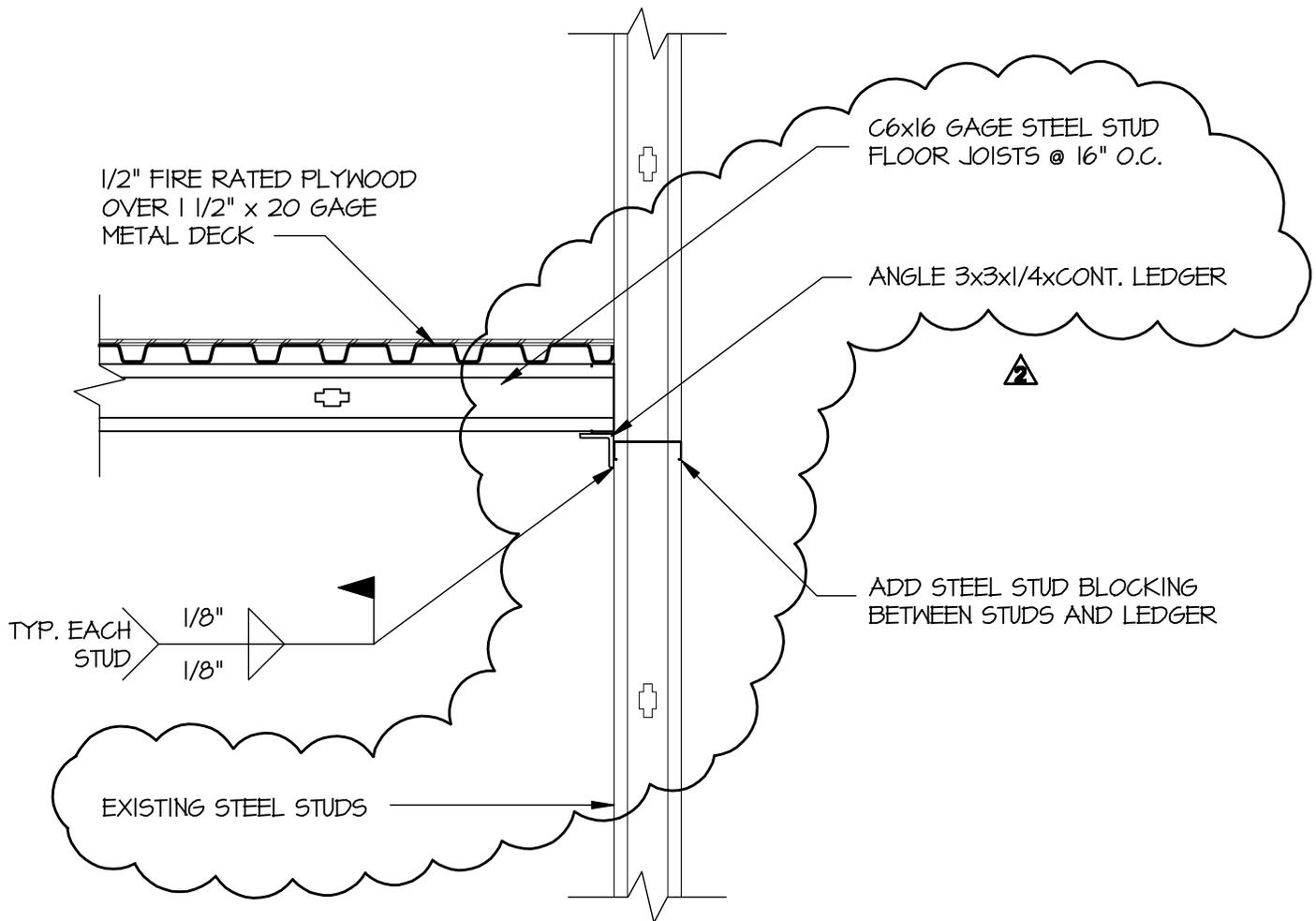
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ADDENDUM #2

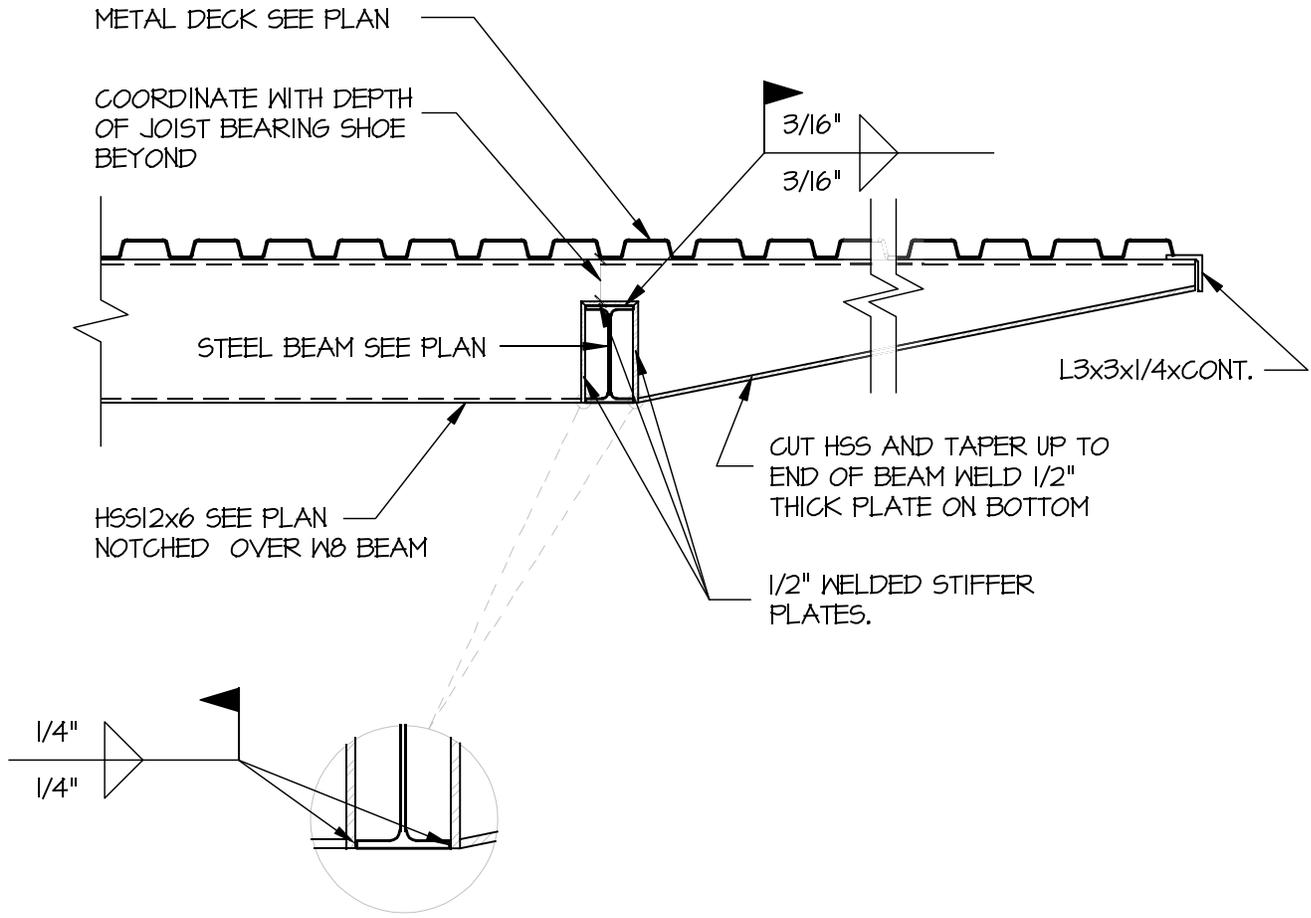
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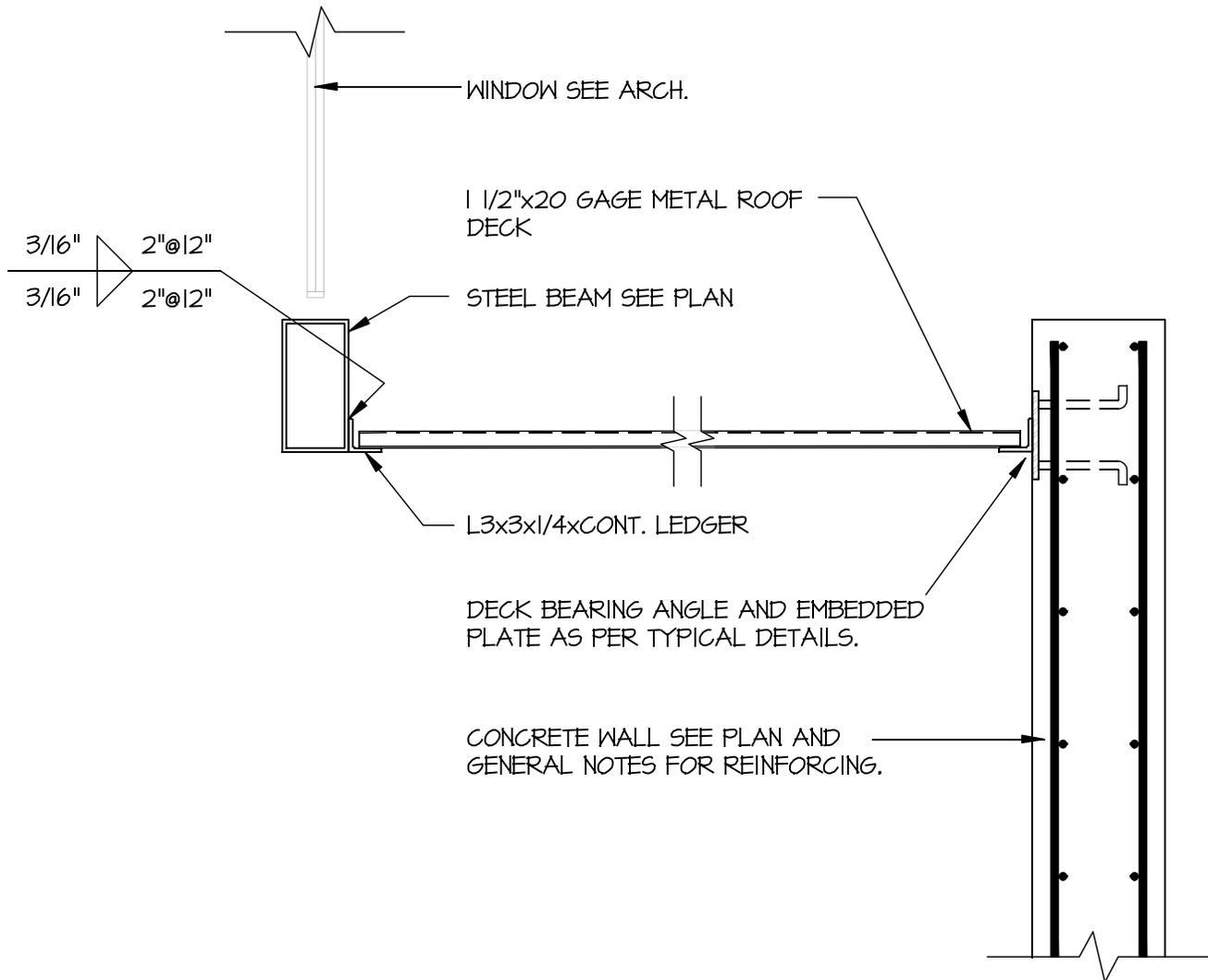


9
 SCALE: 3/4" = 1'-0" SE303

UTAH VALLEY UNIVERSITY NOORDA THEATRE <small>Orona, UT</small>	DRAWING TITLE: STRUCTURAL DETAIL		
ADDENDUM #	DATE: 08-14-2008	SCALE: 3/4" = 1'-0"	



SCALE: 3/4" = 1'-0" **6** SE304



7
 SCALE: 3/4" = 1'-0" SE304

UTAH VALLEY UNIVERSITY
NOORDA THEATRE

Gen., UT

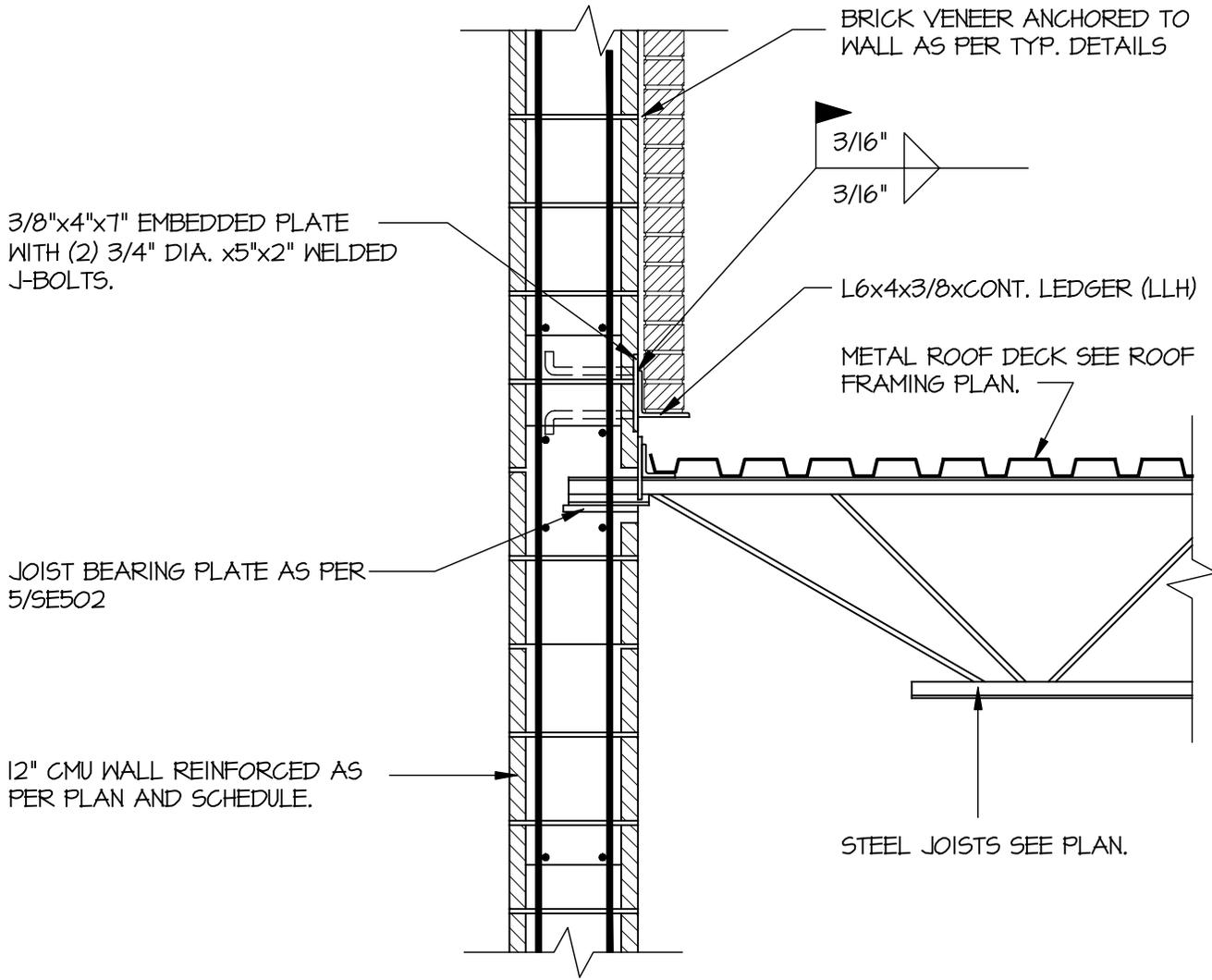
DRAWING TITLE:

STRUCTURAL DETAIL

ADDENDUM #2

DATE: 08-14-2008

SCALE: 3/4" = 1'-0"



8
 SCALE: 3/4" = 1'-0" SE304

UTAH VALLEY UNIVERSITY NOORDA THEATRE <small>Orsm, UT</small>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DRAWING TITLE:</td> <td colspan="2" style="text-align: center;">STRUCTURAL DETAIL</td> </tr> <tr> <td>ADDENDUM #2</td> <td style="width: 30%;">DATE: 08-14-2008</td> <td style="width: 40%;">SCALE: 3/4" = 1'-0"</td> </tr> </table>	DRAWING TITLE:	STRUCTURAL DETAIL		ADDENDUM #2	DATE: 08-14-2008	SCALE: 3/4" = 1'-0"
DRAWING TITLE:	STRUCTURAL DETAIL						
ADDENDUM #2	DATE: 08-14-2008	SCALE: 3/4" = 1'-0"					

ADDENDUM

DATE: August 14, 2008
PROJECT NO: 08193
PROJECT: UVU Noorda Theatre

DIVISION - 15

DRAWINGS

SHEET - MH102 – Replace original sheet with new sheet attached with this addendum

1. Add fire damper to 50/16 return duct between Light Vestibule 106 and existing hallway at grid 1.
2. Add fire damper to 70/22 supply duct between existing Scene Shop and Black Box Theater 108 at grid 1. Provide flexible duct connection between supply duct and fire damper on the existing building side of the fire rated assembly.
3. Add fire damper to 32/24 supply duct between Lobby 105 and Women's Toilet 113 at grid 1.
4. Refer to specification section 233300 "Air Duct Accessories" for description of fire dampers.

PRIOR APPROVALS

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

<u>Item</u>	<u>Manufacturer</u>	<u>Comments</u>
Vibration Isolation & Seismic Restraint	Vibro-Acoustics	Approved
Domestic Water Pumps	Armstrong	Approved

Memorandum

To: Boyd Viehweg
Axis Architects

From: Elaine Fawson

Date: August 13, 2008

Re: UVSC Noorda Theater

Please include the following items in an addendum:

PRIOR APPROVAL OF MANUFACTURERS OF ELECTRICAL EQUIPMENT

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

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

LIGHTING:

Type A, AE	Lightolier, Daybrite, Columbia, Metalux, Williams,
Type A3	Lightolier, Daybrite, Columbia, Metalux, Williams
Type B, BE	Lightolier, Daybrite, Columbia, Metalux, Williams
Type C4, C8	PMC Lighting, Columbia, Focal Point, Williams
Type D	Pinnacle, PMC, Alera, Focal Point, Day-O-Lite
Type E	Lightolier, Omega, Prescolite, Portfolio, Infinity
Type F	No Equal
Type G	Daybrite, Alera, Focal Point, Day-O-Lite
Type H	Daybrite, Alera, Focal Point, Day-O-Lite
Type J, JE	Liton, Omega, Prescolite, Portfolio, Infinity
Type K	Lithonia, Lightolier, Thomas, Prescolite, Halo
Type OA	Pinnacle, Thomas, Insight, Ametrix
Type OE	Mcphilben, Insight, Dualite, Isolite, Exitronix
Type X	Lightolier, Mcphilben, Hubbell, Isolite, Exitronix
Type X1, X2	Lightolier, Mcphilben, Dualite, Isolite, Exitronix
Type XE	Mcphilben, Isolite

SPECIFICATIONS:

1. See attached specifications 271500 Telephone/Data Systems.
2. Specifications Section 260519: Provide minimum #10 neutrals for all branch circuits.

DRAWINGS:

General:

1. The existing fire alarm system is FCI by Nelson Fire. A SNAK panel is located in the mezzanine between grids 3.7 and 3.8 & J.6 and J.7.
2. The existing IDF data rack is located in the mezzanine between grids 3.7 and 3.8 & J.6 and J.7.
3. Contractor shall visit the site and field verify existing conditions required to install new conduits from existing main electrical room on level 5 to the new panel MLF.

Sheet E0.1:

1. Light Fixture Schedule –
 - a. Add new fixture type K – Lithonia LT12WH series with STPCWH/LTBD800BL heads and 100W PAR 38 lamps or equal listed above.
 - b. Fixture type C4 is 4' not 8' listed in description.

Sheet E2.1

1. White Box Room 131. Delete the (5) new fixture type C4 fixtures shown. Reuse the existing 2 x 4 lay-in fixtures and relocate per attached revised drawing. Relocate the three room light switches to the north adjacent to the new door into the White Box. Provide new switches and occupancy sensors in White Box Office and White Box Audience room and provide new switch legs as required. Provide (2) additional Type E recessed cans and dimmer switch in White Box Office. Provide (2) 12 tracks with (10) track heads and (2) new incandescent dimmer switches in White Box 131. See attached revised drawing.
2. Add (3) new type B fixtures above the mezzanine located on west side of Scenery Shop. Provide a light switch on the south wall of the Scenery shop near the west wall to control the lights. Circuit to FLA-8.
3. Add (3) new type B fixtures above the mezzanine located on west side of Green Room above the Media Control Room. Provide a light switch on the west wall of the Green Room near the door into Hall 126 to control the lights. Circuit to FLA-8.
4. Add (1) new type B fixture in Tool Room 116 and a light switch adjacent to the door. Circuit to FLA-8.
5. Delete (3) type A/AE fixtures in Hall 111 and provide (4) type J and (1) type JE recessed fixtures per attached revised drawing.
6. Remove (2) existing wraparound light fixtures in existing corridor between grids 3.7 and 3.8. Add (3) new type A3 fixtures, (1) new type J fixture, and (1) new type JE fixture.
7. Lights fixtures in Vestibule 100 shall be type J.
8. Light fixtures in Lobby 105 shall be type F. Coordinate locations and quantity with the Architectural reflected ceiling plans.
9. New exit light on loading dock is fixture type X1.

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635 South State Street
Salt Lake City, Utah 84111
P 801.532.2196
F 801.532.2305

10. **Include 40 hours labor and \$2,000.00 for materials**, including overhead and profit in Division 26 bid price to relocate the existing dimming system equipment from the Green Room 115, into Small Black Box 125 per the Owner's direction. The dimming rack is located on a platform above the north end of the Black box so dimming branch circuits should be shorter. Keep written logs of actual time and material to be submitted to the Architect. Return any excess to the Owner.
11. Relocate all existing make up mirror lights in Mens Changing 119 and Womens Changing 122 per the Architect's direction, not just those shown on the drawings. Field verify existing conditions.

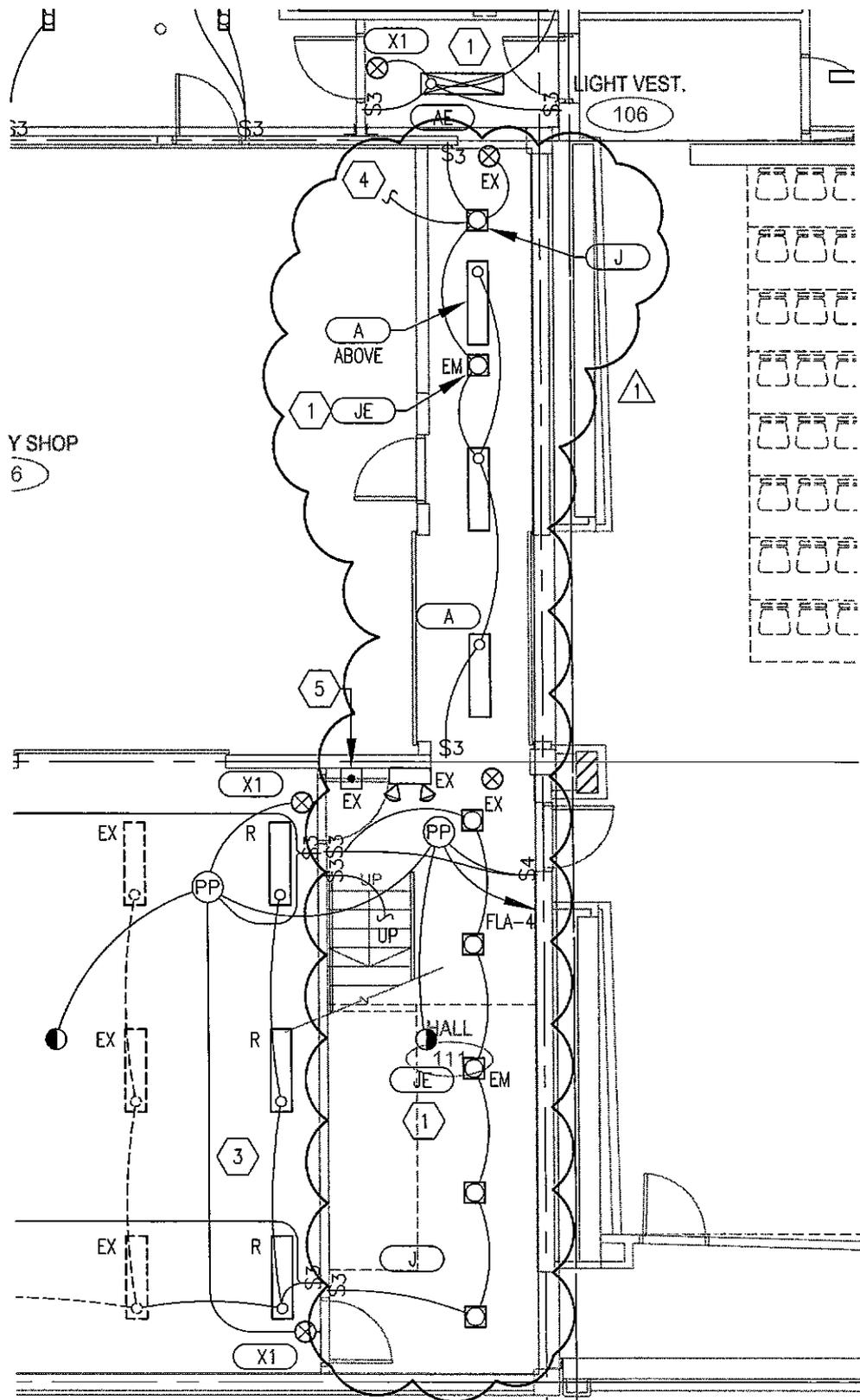
Sheet E3.2:

1. Conform with NEC clearances for panels, transformer, and dimming cabinet. Submit a dimensioned drawing showing panelboard dimensions and NEC clearances prior to ordering any equipment.

Sheet E4.1:

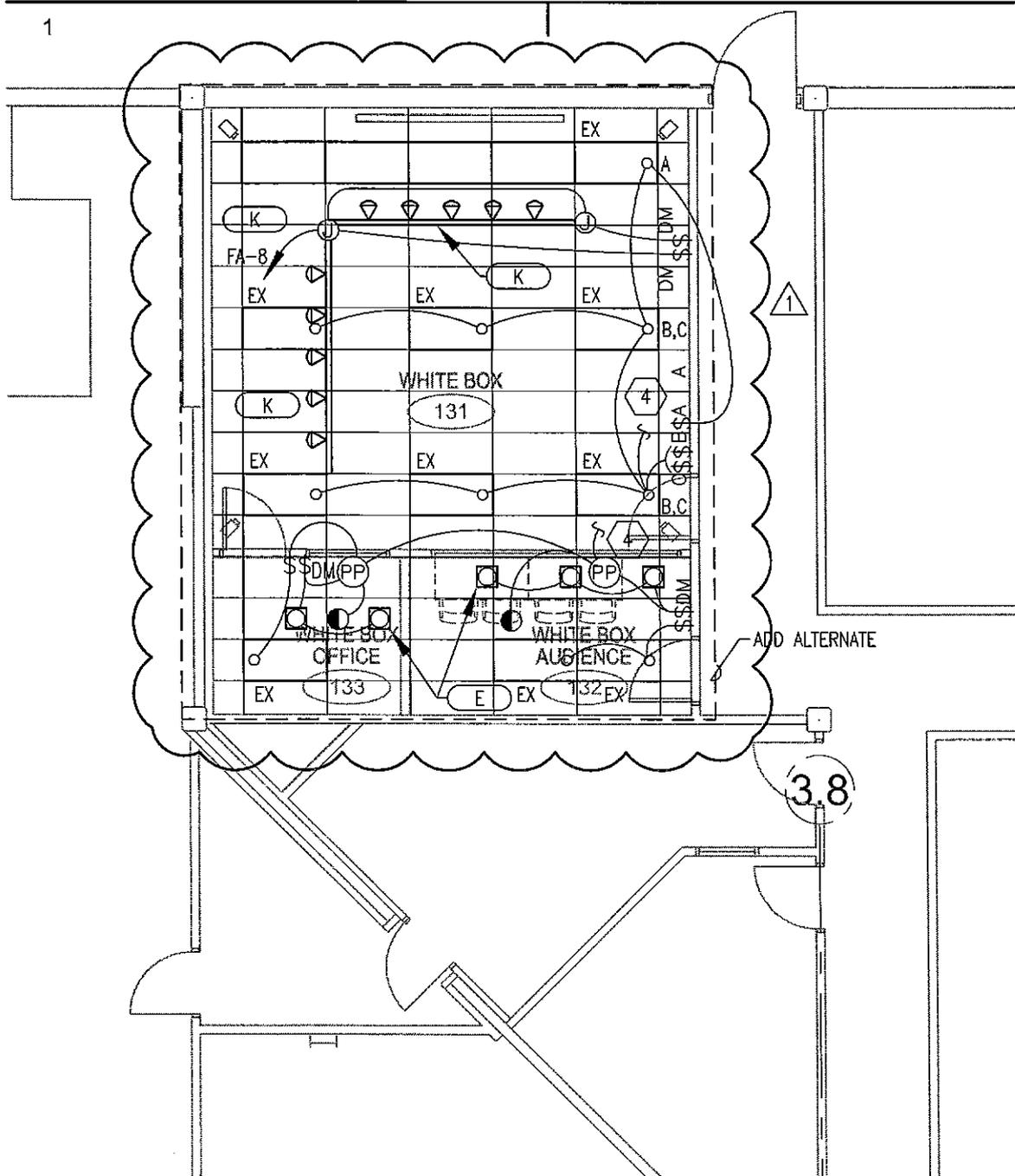
1. Change conduit/conductor symbol to 425-2 from existing main panel M to new Panel MLF (for voltage drop).
2. Change 300 amp circuit breaker in Panel MLF feeding transformer to 400 amp.
3. Change conduit conductor symbol between 400 amp breaker and transformer to 350.
4. Change transformer to 225 KVA K-4 rated transformer.
5. Change conduit/conductor symbol from transformer to Panel MF to T535-3 (200% neutral).
6. Provide 200% neutral bus in panel MF. Change Panel MF main circuit breaker to 800 amps.
7. Change conduit/conductor symbol from Panel MF to Panel FA/AP to 54X (200% neutral).
8. Provide 200% neutral bus in panel FA/AP.
9. Change conduit/conductor symbol from panel MF to Panel DM to 550 (200% neutral.)
10. Panel AP shown on Theater Drawings shall be subfed from panel FA subfeed lugs.
11. All branch circuit fed from panel DM shall be minimum #10 AWG copper.
12. Sheet E5.2 – Delete detail F013. Provide voice/data wiring per attached specifications 275100. Owner shall provide new 110 blocks, and IDF rack if required.

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635 South State Street
Salt Lake City, Utah 84111
P 801.532.2196
F 801.532.2305



PLAN
NORTH

1



SECTION 271500

TELEPHONE/DATA SYSTEM

PART 1 – GENERAL

1.1 RELATED DOCUMENTS:

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

1.2 DESCRIPTION OF WORK:

- A. The extent of telephone/data system work is indicated by drawings and is hereby defined to include, but not be limited to cable, raceway, outlet boxes, device plates, backboard, grounding and miscellaneous items required for complete system.
- B. Provide complete cable and outlet system as indicated on the drawings and described herein. Work includes cable, jacks, terminal blocks, wire management, labeling, transient voltage surge suppression, patch cords, and all terminations.
- C. Refer to other Division-26 sections for requirements for raceways, boxes and fittings, wiring devices (plates), and supporting devices, and other sections, as applicable.
- D. Provide system testing as described herein.

1.3 QUALITY ASSURANCE:

- A. Comply with applicable portions of NEC as to type products used and installation of components. Provide products and materials which have been UL-listed and labeled. Comply with NEMA standards for low loss extended frequency cable and EIA/TIA TSB-36. Comply with EIA/TIA 568-A, EIA/TIA 569 and manufacturer's recommendations. Comply with EIA/TIA testing standards for horizontal cabling.

1.4 SUBMITTALS:

- A. Submit manufacturers data and installation details for all devices, plates, cable, terminal blocks, patch cords, TVSS, wire management, labels and similar equipment.

1.5 CONTRACTOR QUALIFICATIONS AND TRAINING

- A. The contractor shall be fully conversant and capable in the cabling of low voltage applications such as, but not limited to data, voice and imaging network systems. The Contractor shall at a minimum possess the following qualifications:
 - 1. Possess those licenses/permits required to perform telecommunications installations in the specified jurisdiction.
 - 2. Personnel trained and certified in fiber optic cabling, splicing, termination and testing techniques. Personnel must have experience using a light meter and OTDR.
 - 3. Personnel trained in the installation of pathways and support for housing horizontal and backbone cabling.
 - 4. Personnel knowledgeable in local, state, province and national codes, and regulations. All work shall comply with the latest revision of the codes or regulations. When conflict exists between local or national codes or regulations, the most stringent codes or regulations shall be followed.
 - 5. Be in business a minimum of five (5) years.

6. Be Siemons and Commscope certified. Be CI rated from Siemons Corp.

1.6 APPROVED INSTALLERS:

- A. Americom Technology (Stan Lawrence 892-0519 fax 892-0585).
- B. Cache Valley Electric (Tim Hadden 908-4190 fax 908 7041
- C. Federal Communications Group
- D. Lumix/SCI 4185 West 8370 S. West Jordan 84088
- E. Network Systems Installation (NSL)
- F. Niels Fugal (Matt Pierce 785-3153 fax 796-5081).

PART 2 - PRODUCTS

2.1 GENERAL:

- A. Provide 4" square outlet box at each outlet location with double gang plaster or tile ring and 1" conduit to cable tray or IDF.

2.2 INTERMEDIATE DISTRIBUTION FACILITY

- A. Electronics and new racks, if required, will be furnished and installed by Information Systems Department.
- B. Provide new patch panels on existing 19" rack, patch panels, and patch cables.
- C. Provide adequate and appropriate installation of patch panels and wire management into new or existing rack.

2.3 PATCH CORDS:

- A. Provide factory assembled patch cords meeting or exceeding all criteria specified in the horizontal cabling standard subsection above. Provide
 - 1. 10' CAT 6 patch cable for each outlet connection.
 - 2. 3' CAT 6 patch cable for each IDF hub connection.
 - 3. 3' CAT 6 patch cable for hub/switch connection.

2.4 VOICE/DATA OUTLETS:

- 1. Provide modular voice/data outlets. Provide double gang faceplate kits to allow up to four data or voice jacks as required. Provide faceplate kits for wall outlets in colors and materials that match power wiring device plates. Provide faceplate kits that allow labeling schemes described herein.
- 2. Provide information outlets for 24-AWG copper cable as follows:
 - a. 8-position/ 8 conductor modular insulation displacement.
 - b. Provide Siemons CT jacks with 2 of the ports having Siemons Cat 5 phone connections (#CT-U2-U2-01.), and 2 of the ports having Siemons 568b Cat 6 angled data connections (#CT-C6-C6-02). Data jacks shall be installed at bottom of faceplate.

2.5 VOICE AND DATA CABLING

- 1. Provide (2) 4-pair, 100 unshielded twisted pair (UTP) CAT 6 plenum Data Cables (white) Commscope 7504, and (1) Cat 5 plenum Voice Cable (blue), Commscope, for each location called for. Terminate data cables on patch panel and voice cables on 110 blocks.

2. All UTP and fiber optic cables shall conform to ANSI/TIA/EIA-568-A Commercial Building Telecommunications Cabling Standard (latest amendment and including all applicable addenda)

B. ACCEPTABLE MANUFACTURERS:

1. Subject to compliance with requirements. Provide products of one of the following:
 - a. Comm Scope

2.6 LABELING:

- A. Provide labeling hardware for providing circuit identification and patch cords or cross connect wire used for creating circuit connection at the cross connects.

B. Labeling

1. Cables
 - a. Horizontal and backbone cables shall be labeled at each end. The cable or its label shall be marked with its identifier.
2. Faceplates
 - a. A unique identifier shall be marked on each faceplate to identify it as connecting hardware.
 - b. Each port in the faceplate shall be labeled with its identifier.
3. Racks, Panels, Blocks
 - a. A unique identifier shall be marked on each piece of connecting hardware to identify it as connecting hardware.
 - b. Each port on the connecting hardware shall be labeled with its identifier.

2.7 COPPER TERMINATION BLOCKS AND PATCH PANELS:

- A. Provide termination blocks and patch panels, that facilitate cross-connection using either cross- connect wire or patch cords.
- B. Provide termination blocks for voice, and patch panels for data as required for all building telecommunications needs.
1. 110-Type Wiring Blocks: The blocks shall:
 - a. The connecting hardware block shall support the appropriate Category 5 applications and facilitate cross-connection and/or inter-connection using either cross-connect wire or patch cords. Appropriately, the cross-connect hardware shall be 110-type.
 - b. be made of flame-retardant thermoplastic, with the base consisting of horizontal index strips for terminating up to 25-pairs of conductors.
 - c. be available in 25-, 50-, 75-, 100-, 200- and 300- pair sizes.
 - d. have detachable stand-off legs available for the 50- and 100-pair bases, while non-detachable stand-off legs are to be available for 200- and 300-pair bases.
 - e. contain access openings for rear to front cable routing to the point of termination.
 - f. have termination strips on the base to be notched and divided into 5-pair increments.

- g. have clear label holders with the appropriate colored inserts available for the wiring blocks. The insert labels provided with the product shall contain vertical lines spaced on the basis of circuit size (2-, 3-, 4- or 5-pair) and shall not interfere with running, tracing or removing jumper wire/patch cords. Label holders must be capable of mounting in the under portion of the wiring block.
 - h. have bases available in 19 inch panels and high density frame configurations for rack or wall mounting with cable management hardware.
 - i. have connecting blocks used for either the termination of cross-connect (jumper) wire or patch cords. The connecting blocks shall be available in 2-, 3-, 4- and 5-pair sizes. All connecting blocks shall have color-coded tip and ring designation markers and be of single piece construction.
 - j. have connecting blocks with a minimum of 200 re-terminations without signal degradation below standards compliance limit.
 - k. support wire sizes: Solid 22-26 AWG (0.64 mm - 0.40 mm), and 7-strand wires.
 - l. have optional configurations of 110 blocks and bases available including category 5e modular jack panels and category 5e disconnect series.
 - m. be made by an ISO 9001 Certified Manufacturer.
2. Copper Termination Patch Panels [UTP/ScTP] Siemons Cat 6 48 port patch panel (#HD648).
- a. The termination panels shall support the appropriate Category 6 or higher applications and facilitate cross-connection and inter-connection using modular patch cords. The panels shall be sized to fit an EIA standard, 19 inch relay rack, or be capable of mounting to a wall.
 - b. Modular Patch Panel The panel shall have:
 - c. Be made of black anodized aluminum in 16-, 24-, 28-, 32-, 48-, 64- and 96- port configurations.
 - d. have cutouts to fit the variety of information outlets used at the work area, supporting UTP, SC and ST fiber adapters, as well as coaxial applications.
 - e. have cutouts which allow terminated jacks to pass through the panel for easy rearrangement.
 - f. be available in two sizes for each port quantity to allow for custom administration of the network.
 - g. have changeable ports which are removed from the front of the panel to allow custom configuration or modification to the panel.
 - h. have port identification numbers provide on both the front and rear of the panel.
 - i. have mounting slots compatible with ANSI/EIA-310.
 - j. allows the modular insert to accept 110-style patch plugs as a means of termination.
 - k. be made by an ISO 9001 Certified Manufacturer.

C. LABELING:

- 1. Provide labels appropriate for termination blocks supplied.

D. WIRING MANAGEMENT:

- 1. Provide wiring spindles and channels as necessary to allow neat bundling of all wire and cable. Provide wiring channel (horizontal) above and/or below each termination block. Provide wiring channels by same manufacturer of termination block. Provide nylon or Velcro type ties for all cables at telephone backboard not

run in conduit or channels.

PART 3 - EXECUTION

3.1 INSTALLATION OF TELEPHONE/DATA SYSTEM:

- A. GENERAL: Install raceway and cable system and specified equipment as indicated to comply with NEC and recognized industry practices.
- B. Prior to placing any cable pathways or cable, the contractor shall survey the site to determine job conditions will not impose any obstructions that would interfere with the safe and satisfactory placement of the cables. The arrangements to remove any obstructions with the Project Manager need to be determined at that time.
- C. Provide NEC sized pullboxes for any run greater than 90 meters or with more than two ninety degree bends. Maintain a distance of at least 12 inches from all power conduits and cables, and 6 inches from all fluorescent lighting fixtures. Do not install power feeders 100 amps or greater above or within 5 feet of telecommunications backboard. Do not install telecommunications conduits above power panels or switchboards.
- D. Cable Routing
 - 1. All horizontal cables, regardless of media type, shall not exceed 90 m (295 ft) from the telecommunications outlets in the work area to the horizontal cross connect.
 - 2. The combined length of jumpers, or patch cords and equipment cables in the telecommunications room/closet and the work area should not exceed 10m (33 ft).
 - 3. Horizontal pathways shall be installed or selected such that the minimum bend radius of horizontal cables is kept within manufacturer specifications both during and after installation.
 - 4. For voice or data applications, 4-pair UTP or fiber optic cables shall be run using a star topology from the telecommunications room/closet serving that floor to every individual information outlet.
 - 5. The Contractor shall observe the bending radius and pulling strength requirements of the 4-pair UTP/ScTP and fiber optic cable during handling and installation.
 - 6. Each run of UTP/ScTP cable between horizontal portion of the cross-connect in the telecommunication closet and the information outlet shall not contain splices.
 - 7. In a false ceiling environment, a minimum of 3 inches (75 mm) shall be observed between the cable supports and the false ceiling.
 - 8. Continuous conduit runs installed by the contractor should not exceed 30.5 m (100 ft) or contain more than two (2) 90 degree bends without utilizing appropriately sized pull boxes.
 - 9. All horizontal pathways shall be designed, installed and grounded to meet applicable local and national building and electrical codes.
- E. CABLES AND TERMINATIONS: Install additional cables as indicated on the drawings. Do not exceed manufacturers recommendations for maximum allowable pulling tension, side wall pressure or minimum bending radius. Use pulling compound as recommended by manufacturer.
 - 1. Provide a service loop in each J-box in the communications system.
 - 2. Install all cable in plenum spaces with rigid fittings every five feet on center. Homerun all cable to nearest termination board.

3. Coordinate with EIA/TIA 569 tables 4.4-1 and 4.4-2 for conduit and splice box sizing.
4. Terminate cable at each jack location and at terminal board. Follow industry guidelines and manufacturers recommendations and procedures as required. All termination hardware shall be rated to Category 6 specifications as required.
5. Label and identify each outlet and cable for data circuits. Label at outlet end and at termination board with matching designations.

3.2 TERMINAL BLOCKS:

- A. Arrange all terminal blocks in a manner that allows natural wiring progression and minimizes crossing of wires.

3.3 PATCH CORDS:

- A. Provide patch cords and cross connect cables as necessary for a complete operational telephone and data network system. Consult with owner to determine any special needs such as dedicated phone lines. Coordinate with owner and installer of phone and data network equipment to ensure that patch cords and cross connects are installed in the correct positions for system to function properly.

3.4 TESTING:

- A. Test all equipment and each outlet, horizontal cable, termination block, patch cords, etc. to verify compliance with requirements. Testing shall consist of attenuation and NEXT across all splices and devices installed in the field and shall meet latest requirements of EIA/TIA. All cables shall be tested and certified by the installer to run at minimum speeds as set by cable manufacturer. Reterminate any cable or connection found to be defective. No defective pairs will be accepted.
- B. Correct any malfunctions.
- C. Each cable must be documented and recorded in a data base and supplied to UVSC in a computer software format that is compabile with wiring documentation software program known as CRIMP. Mohawk Cat 3 (#M56061B) and Mohawk Cat 6 Advance/Net/White can be substituted with permission from UVSC>
- D. Include test report in O & M manuals.

3.5 WARRANTY:

- A. Provide a 5 year extended product warranty for all cable. Include replacement material for any defective product.
- B. Provide an installation warranty by communications subcontractor complying with Division 260500.

3.6 OPERATING AND MAINTENANCE MANUALS:

- A. Operating and maintenance manuals shall be submitted prior to testing of the system. A total of (4) manuals shall be delivered to the Owner. Manuals shall include all service, installation, and programming information.

3.7 RECORD DRAWINGS:

- A. Provide a complete set of autocad "as built" drawings showing wiring, specific interconnections between all equipment and internal wiring of equipment.

3.8 GROUNDING:

- A. All grounding / earthing and bonding shall be done to applicable codes and regulations.

END OF SECTION 271500



A2 LEVEL 1 EXITING PLAN
SCALE: 1/16"=1'-0"

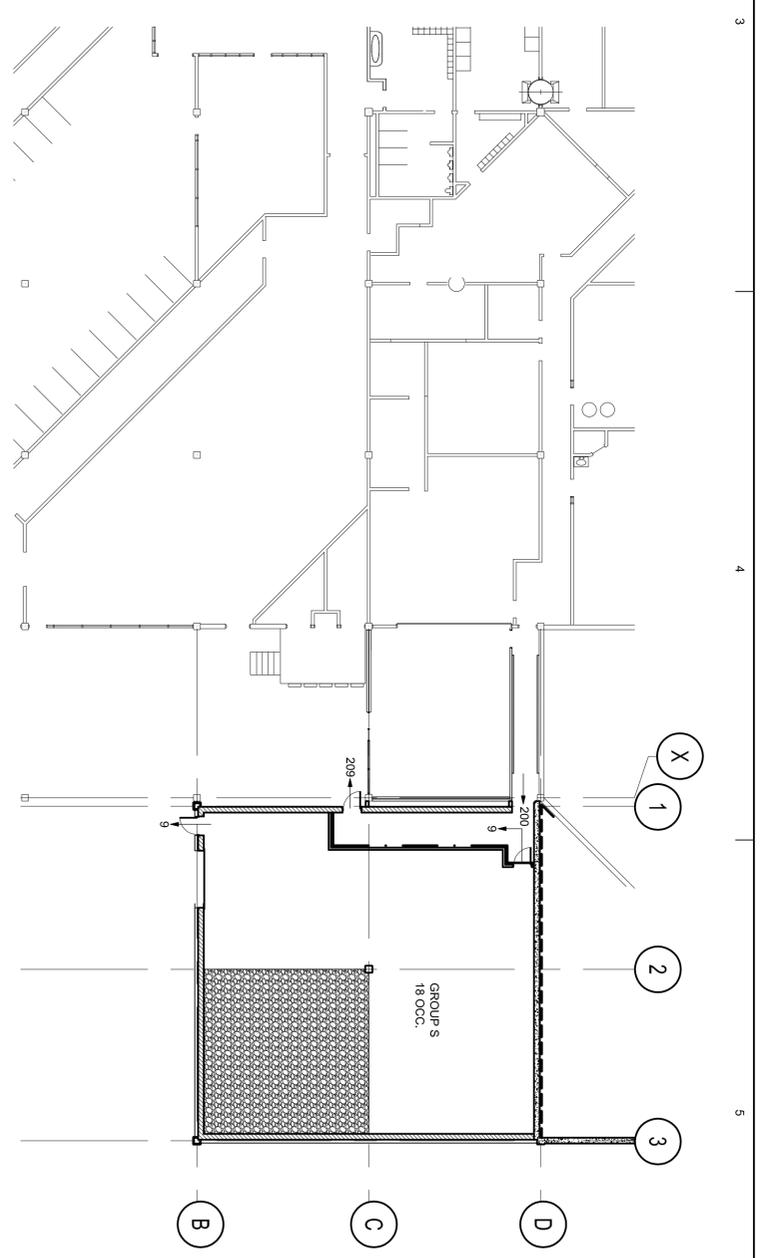


OCCUPANT LOAD PER LEVEL

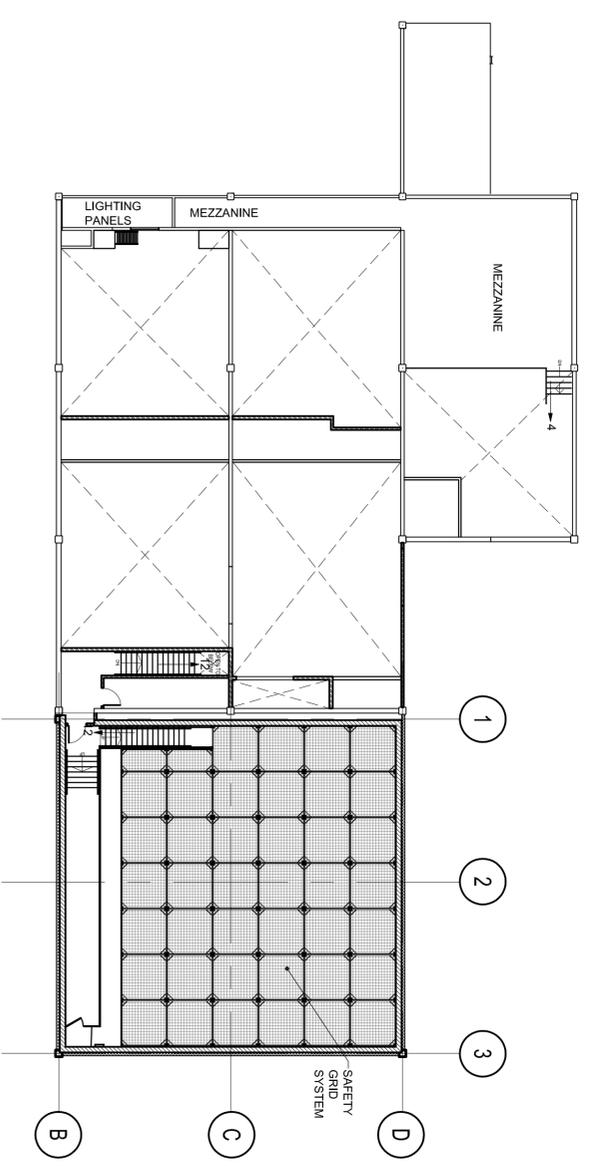
BASEMENT: 218 OCC.
LVL 1: 682 OCC.
MEZZANINE: 12 OCC.

LEGEND

1 HOUR RATED WALL
CMU WALL: UL301, UL304, UL305
CONCRETE WALL: 1Z



A2 BASEMENT EXITING PLAN
SCALE: 1/16"=1'-0"



A2 MEZZANINE EXITING PLAN
SCALE: 1/16"=1'-0"



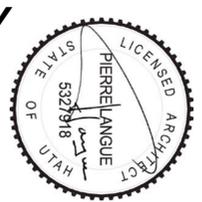
REVISION NUMBER AND DATE:
▲ ADDENDUM 1 08/01/08
▲ ADDENDUM 3 08/11/08

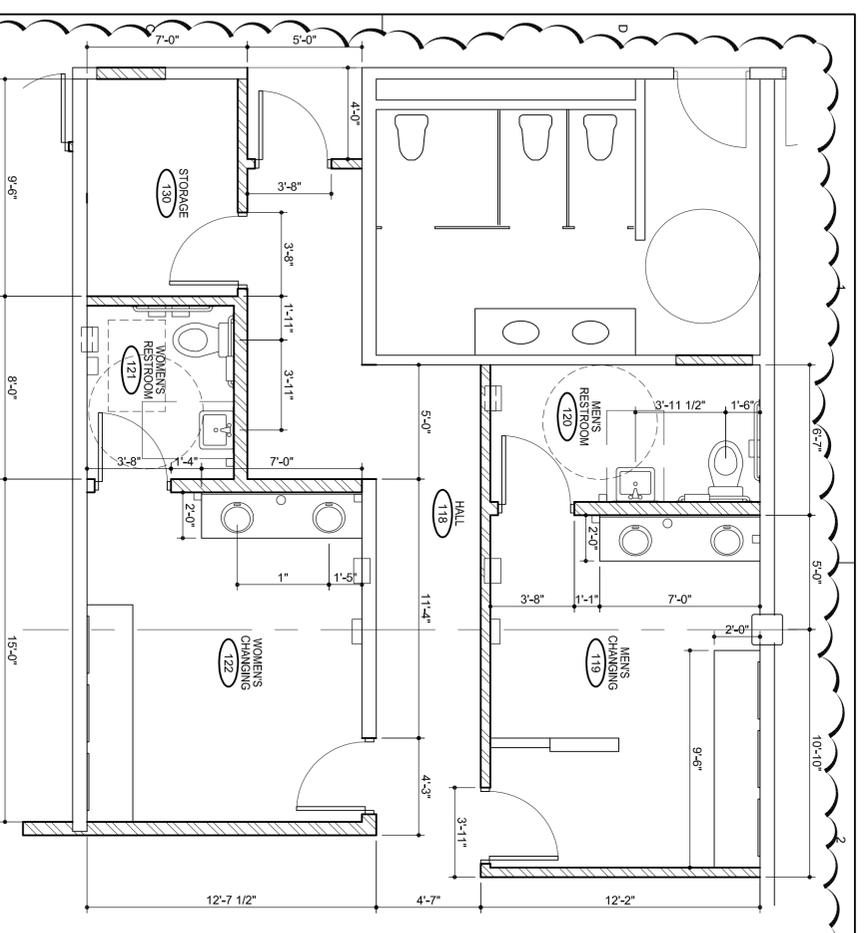
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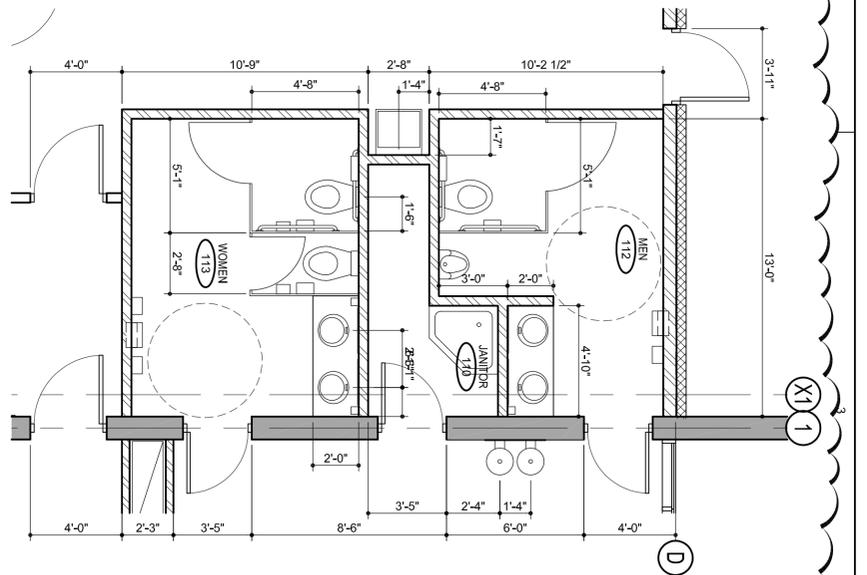
AXIS JOB #: 0804
OWNER JOB #: 08017790
DATE: August 11, 2008
DRAWN BY:
CHECKED BY:

EXITING PLAN

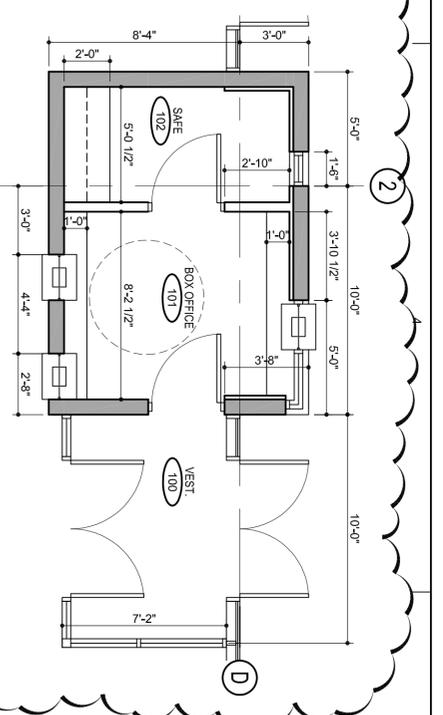




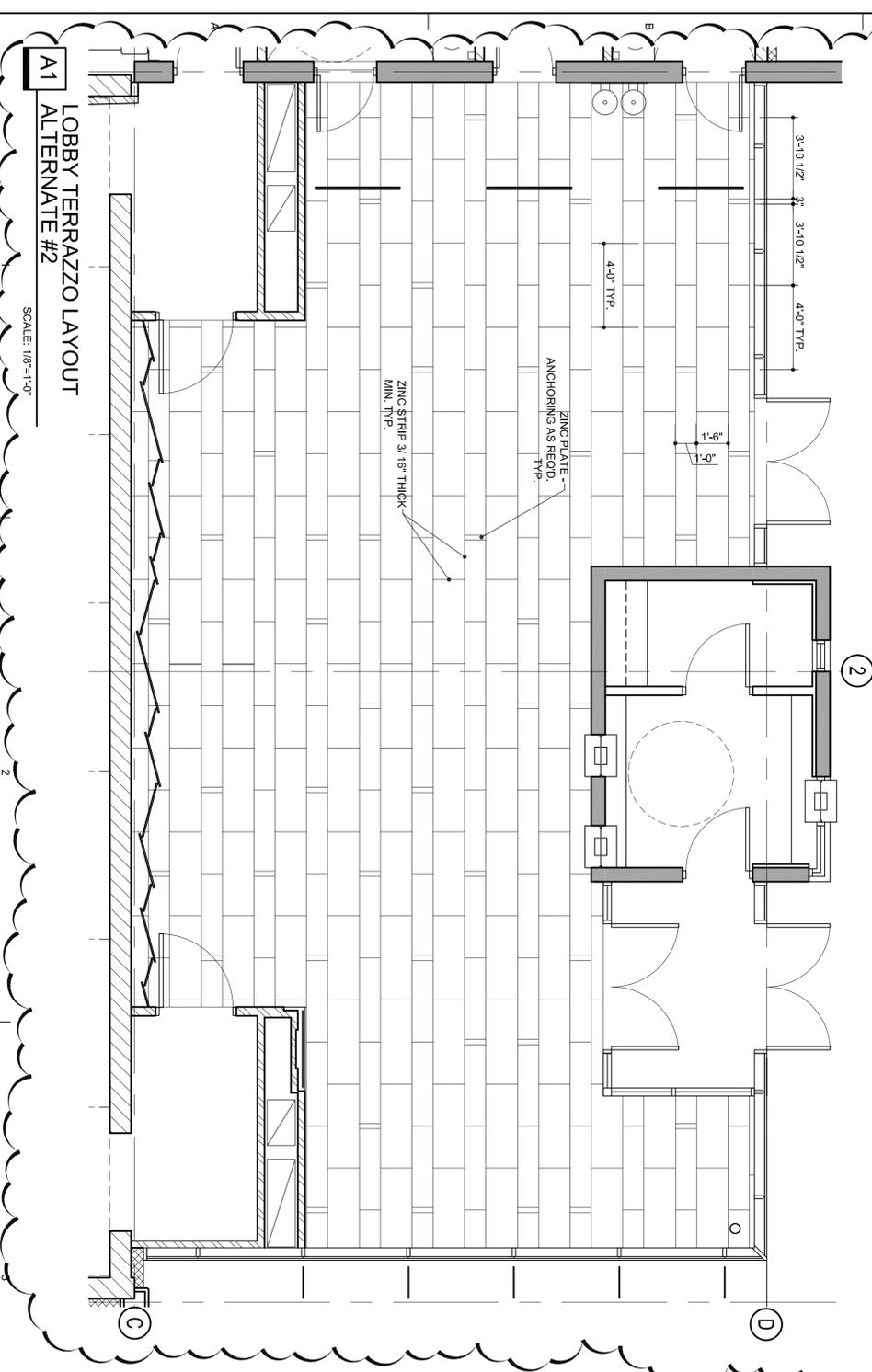
C1 CHANGING ROOMS
SCALE: 1/4"=1'-0"



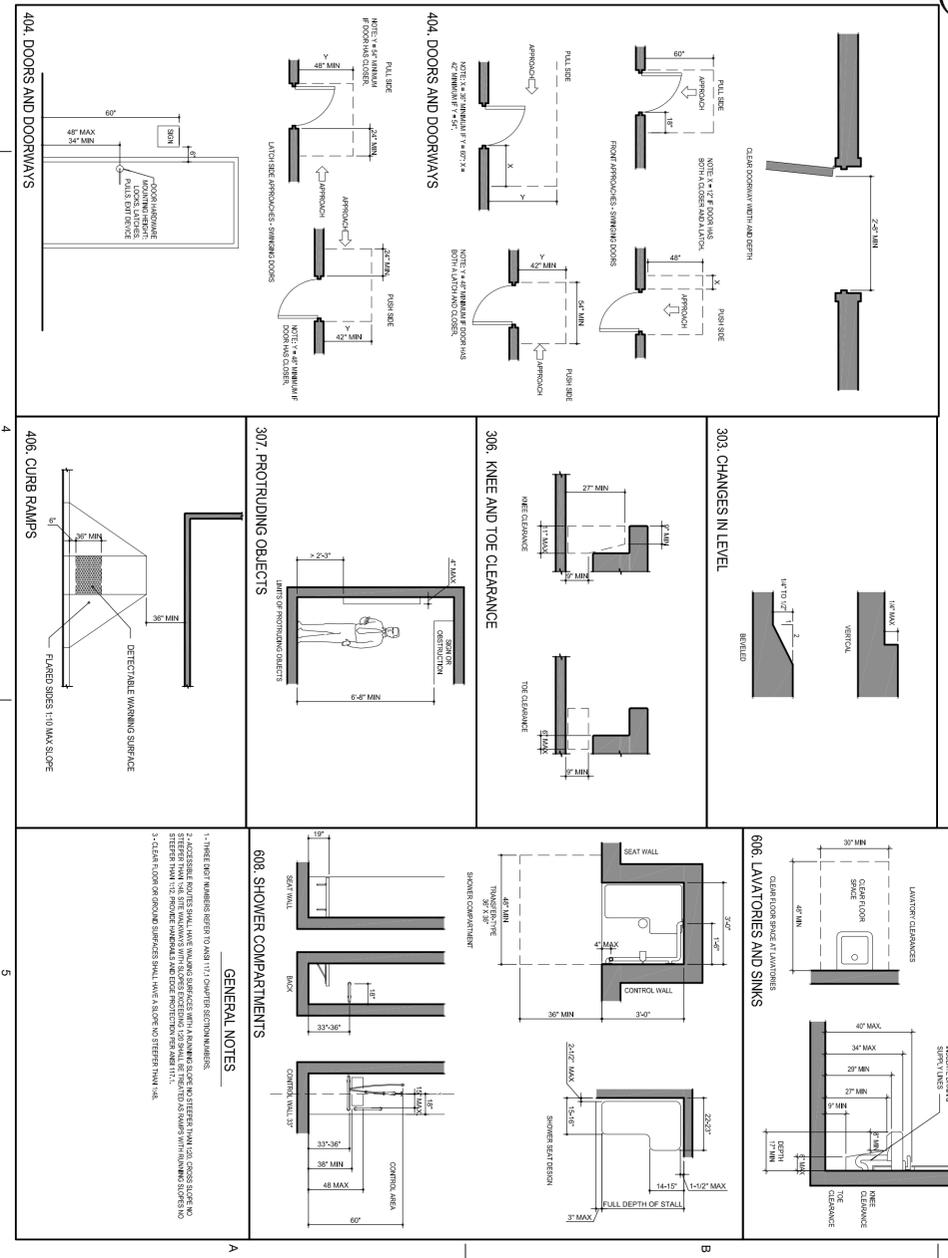
C3 PUBLIC RESTROOMS
SCALE: 1/4"=1'-0"



A3 BOX OFFICE
SCALE: 1/4"=1'-0"



A1 LOBBY TERRAZZO LAYOUT ALTERNATE #2
SCALE: 1/8"=1'-0"



GENERAL NOTES

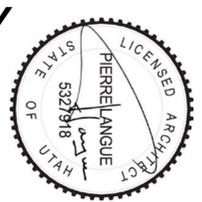
- 1- THESE FOOT NUMBERS REFER TO AIA 111 CHAPTER SECTION NUMBERS.
- 2- ACCESSIBLE SPACES SHALL HAVE WALKING SURFACES WITH A FINISH SCORE NO STEEPER THAN 1/2" CROSS SLOPE NO STEEPER THAN 1/4" RISE PER FOOT AND NO PROTRUDING OBJECTS SHALL BE PERMITTED AS SHOWN IN THE DRAWINGS UNLESS OTHERWISE NOTED.
- 3- CLEARANCES OVER OR OPENING SURFACES SHALL HAVE A SLOPE NO STEEPER THAN 1/4".

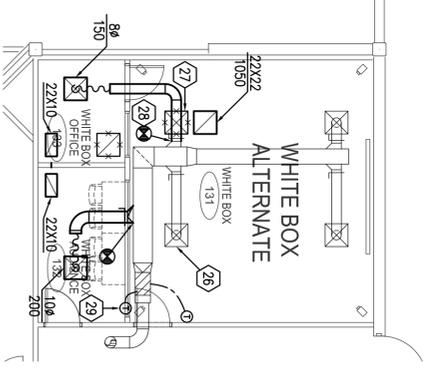
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 ▲ ADDENDUM 1 08/01/08
 ▲ ADDENDUM 3 08/11/08

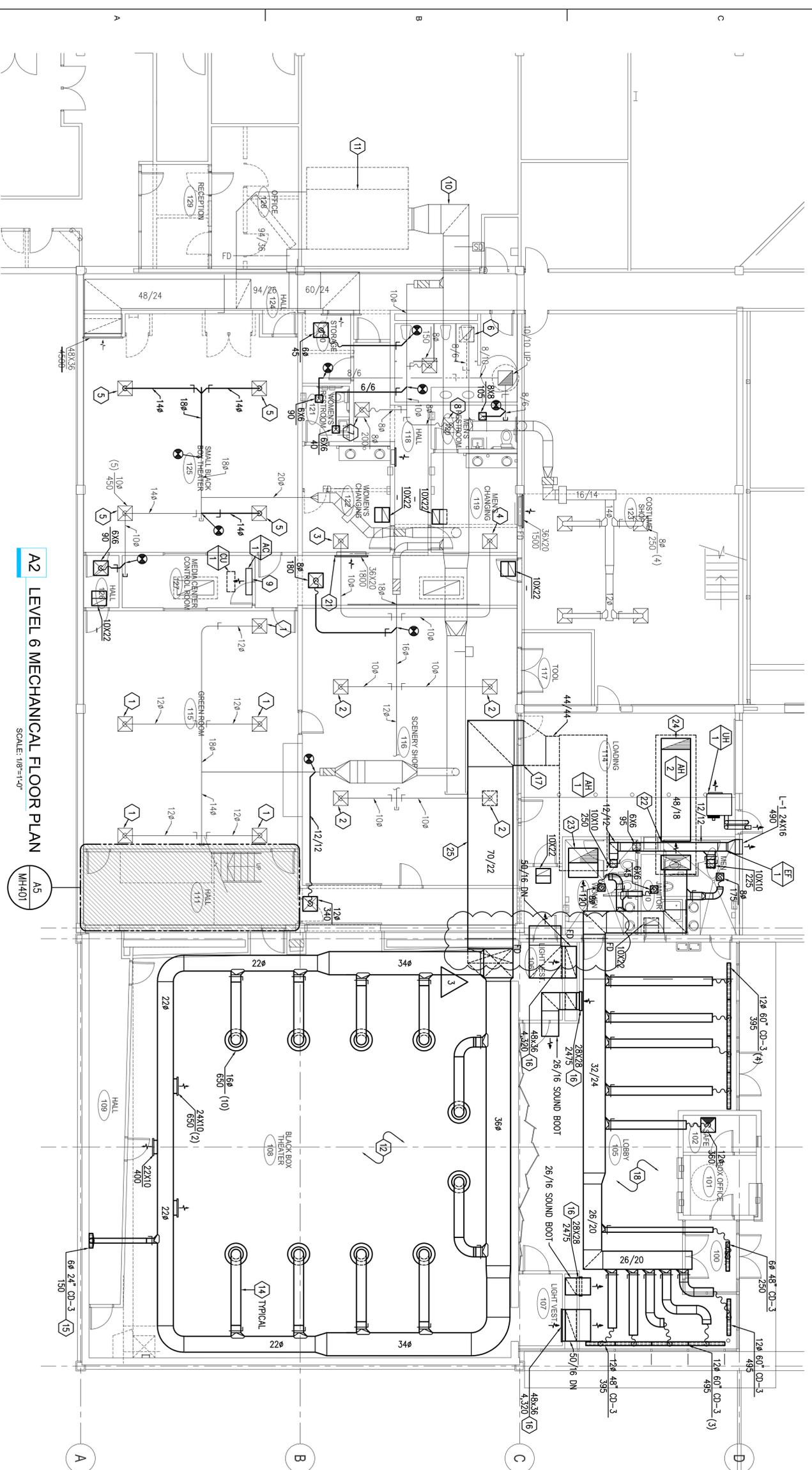
AXIS JOB #: 0804
 OWNER JOB #: 08017790
 DATE: August 11, 2008
 DRAWN BY:
 CHECKED BY:

ACCESSIBILITY COMPLIANCE





C1 WHITE BOX ALTERNATE
SCALE: 1/8"=1'-0"



A2 LEVEL 6 MECHANICAL FLOOR PLAN
SCALE: 1/8"=1'-0"

KEYED NOTES

1. REBALANCE SUPPLY DIFFUSER TO 270 CFM.
2. REBALANCE SUPPLY DIFFUSER TO 340 CFM.
3. REBALANCE SUPPLY DIFFUSER TO 125 CFM.
4. REBALANCE SUPPLY DIFFUSER TO 115 CFM.
5. REBALANCE SUPPLY DIFFUSER TO 520 CFM.
6. REBALANCE EXHAUST GRILLE TO 150 CFM.
7. REBALANCE SUPPLY DIFFUSER TO 120 CFM.
8. REBALANCE SUPPLY DIFFUSER TO 55 CFM.
9. WALL MOUNTING AIR CONDITIONING COIL LOCATED IN MEDIA CONTROL ROOM ABOVE DOOR. REFER TO SCHEDULE FOR SPECIFICS. PIPE REFRIGERANT LINES TO CONDENSING UNIT ON ROOF. PIPE CONDENSATE TO FLOOR BELOW. SEE P101 FOR CONTINUATION.
10. CLEAN EXISTING SUPPLY AND RETURN DUCTS FROM AIR HANDLING UNIT TO CONNECTIONS TO NEW DUCTS OR EXISTING BRANCH DUCTS.
11. CLEAN EXISTING AIR HANDLER COALS.
12. EXPOSED ROUND DUCT IN BLACK BOX THEATER SHALL BE DOUBLE WALL SPIRAL WRAP CONSTRUCTION WITH 2" DUCT LINER.
13. LINE RECTANGULAR SUPPLY DUCT WITH 2" ACOUSTIC LINER.
14. BRANCH SUPPLY DUCTS SHALL BE DOUBLE WALL SPIRAL WRAP CONSTRUCTION WITH 1" LINER.
15. DROP SUPPLY DOWN WALL TRANSITION TO FIT BACK OF SLOT DIFFUSER.
16. LOW SIDEWALL RETURN. LOCATE BOTTOM OF GRILLE 8" ABOVE FINISHED FLOOR.
17. PENETRATE EXISTING WALL AT EXISTING 30" OPENING IN STRUCTURE.
18. ROUTE SUPPLY DUCT BETWEEN STRUCTURAL AND COORDINATE LATERAL BRANCH DUCTS TO USE OPEN PANELS IN STRUCTURE.
19. SEAL AROUND DUCT WALL PENETRATION AIRTIGHT.
20. 32/24 RETURN AIR SOUND BOOT. SEAL AROUND WALL PENETRATION AIR TIGHT.
21. RELOCATE EXISTING RETURN OPENING AND DAMPER ESSENTIALLY TO NEW LOCATION AS INDICATED. REFER TO M0102.
22. STUD RETURN THROUGH WALL TO PLENUM SPACE ABOVE CEILING.
23. 24/48 RETURN SOUND BOOT FROM PLENUM SPACE TO AIR HANDLER AH-1; LINE RETURN BOOT WITH 2" DUCT LINER.
24. LINE RETURN AIR DUCT WITH 2" DUCT LINER.
25. LINE SUPPLY AIR DUCT WITH 2" DUCT LINER.
26. REBALANCE REMAINING CEILING SUPPLY DIFFUSERS TO 350 CFM EACH.
27. REMOVE EXISTING SUPPLY DIFFUSER AND BRANCH DUCT, HET AND BALANCING DAMPER TO REMAIN.
28. PROVIDE TRANSITION FROM EXISTING BRANCH TAKE-OFF TO NEW 88 BRANCH SUPPLY DUCT.
29. RELOCATE EXISTING SPACE THERMOSTAT TO LOCATION SHOWN.

GENERAL NOTES

1. CEILING SUPPLY DIFFUSERS SHALL BE CO-1 UNLESS NOTED OTHERWISE; REFER TO MECHANICAL SCHEDULES.
2. DUCT MOUNTED SUPPLY DIFFUSERS SHALL BE CO-2 UNLESS NOTED OTHERWISE; REFER TO MECHANICAL SCHEDULES.
3. CEILING SLOT TYPE SUPPLY DIFFUSERS SHALL BE CO-3 UNLESS NOTED OTHERWISE; REFER TO MECHANICAL SCHEDULES.
4. SIDEWALL RETURN GRILLES SHALL BE SWR-1 UNLESS NOTED OTHERWISE.
5. COORDINATE DUCT RUNS ABOVE CEILING TO LINE UP WITH STRUCTURAL STEEL RUN DUCTS BETWEEN STEEL JOISTS AND THROUGH OPEN PANELS.
6. CEILING RETURN GRILLES SHALL BE RG-1 UNLESS NOTED OTHERWISE; PROVIDE SOUND BOOT AT UNDUCTED RETURNS. REFER TO MECHANICAL DETAILS AND SCHEDULES.
7. CEILING EXHAUST GRILLES SHALL BE EG-1 UNLESS NOTED OTHERWISE; REFER TO MECHANICAL DETAILS AND SCHEDULES.

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REVISION NUMBER AND DATE:
3 15 August 2008

AXIS JOB #: 0004
OWNER JOB #: 0004
DATE: July 21, 2008
DRAWN BY: RG
CHECKED BY:
LEVEL 6
MECHANICAL FLOOR PLAN

MH102

