UTAH VALLEY UNIVERSITY

WEST CAMPUS INTERIOR IMPROVEMENTS

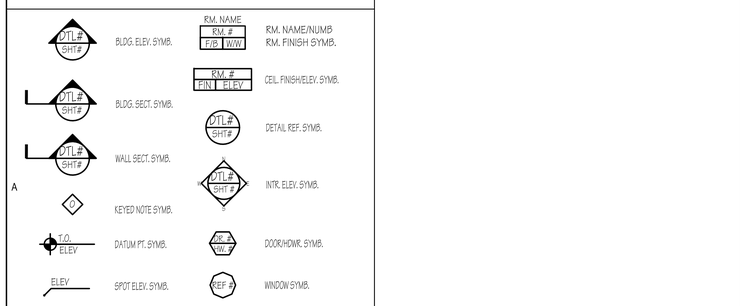
GENERAL ABBREVIATIONS

Acst.	Accoustic Ceiling Tile
Alt.	Alternate
Alum.	Aluminum
A.B.	Anchor Bolts
&	And
Arch.	Architectural
@	At or At The
Bm.	Beam
Blk.	Block
Blkg.	Blocking
Bd.	Board
Bot.	Bottom
Bldg.	Building
Cpt.	Carpet
Clkg.	Caulking
C.I.	Cast Iron
Clg.	Ceiling
Cem.	Cement
Ctr.	Center
C	Center Line
Cer.	Ceramic
C.T.	Ceramic Tile
Clr.	Clear (ance)
Clo.	Closet
Col.	Column
Conc.	Concrete
CMU	Concrete Masonry Unit
CMP	Corrugated Metal Pipe
Conn.	Connection
Constr.	Construction
Cont.	Continuo/Continuous
Contr.	Contractor
C.J.	Control Joints
Corr.	Corridor
Cntr.	Counter
Ctsk.	Countersunk
Det.	Detail
Dept.	Departments
Dia.	Diameter
Dim.	Dimension
Dn.	Down
D.S.	Downspout
Dwg.	Drawing
D.F.	Drinking Fountain
E.	East
Ea.	Each
Elec.	Electric (al)
Elev/El.	Elevation
Exist.	Existing
Eq.	Equal
Equip.	Equipment
Exist.	Existing
Exp.	Expansion
Ext.	Exterior
Fin.	Finish
F.A.	Fire Alarm
F.E.	Fire Extinguiser
F.E.C.	F.E. Cabinet
Flr./FL	Floor
F.D.	Floor Drain
F.O.S.	Face of Stud
F.O.W.	Face of Wall
Ftg.	Footing
Fdn.	Foundation
F.F.	Finish Floor

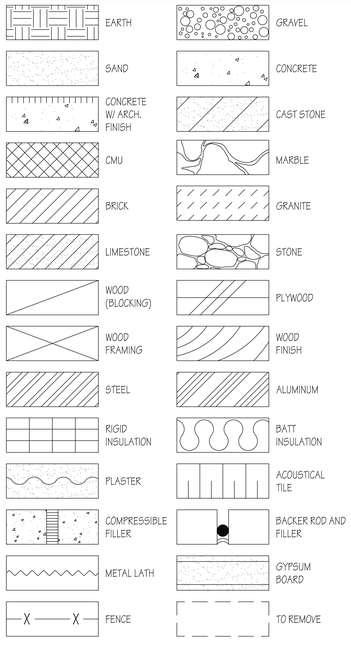
Galv	Galvanized
G.I.	Galvanized Iron
Ga.	Gauge
Gl.	Glass
Gr.	Grade
Gnd.	Ground
Gyp. Bd.	Gypsum Board
GWB	Gypsum Waterproof Board
H.D.P.E.	High Density Polyethylene
HG#	Hardware Group #
Hdwd.	Hardwood
Ht.	Height
H.P.	High Point
Horiz.	Horizontal
H.B.	Hose Bibb
H.M.	Hollow Metal
Hr.	Hours (Fire Rating)
In.	Inch
I.D.	Inside Diameter
Insul.	Insulation
Int.	Interior
I.E.	Invert Elevation
Inv.	Invert Elevation
Jan.	Janitor
Jt.	Joint
J-Box	Junction Box
Kit.	Kitchen
Lam.	Laminate
Lav.	Lavatory
Lt.	Light
L.P.	Low Point
Matl.	Material
Mas.	Masonry
Maint.	Maintenance
Mfr.	Manufacturer
M.H.	Manhole
M.O.	Masonry Opening
Max.	Maximum
Mech.	Mechanical
Memb.	Membrane
Men	Men's Toilets
Mtl./Met.	Metal
Min.	Minimum
Mir.	Mirror
Misc.	Miscellaneous
Mtd.	Mounted
Mul.	Mullion
Nom.	Nominal
N.	North
N.I.C.	Not In Contract
N.T.S.	Not To Scale
No. or #	Number
Off.	Office
O.C.	On Center
Opng.	Opening
Opp	Opposite
Opp. H.	Opposite Hand
O.D.	Outside Diameter
O.R.D.	Overflow Roof Drain

Q.T.	Quarry Tile
Rad.	Radius
R.B.	Rubber Base
R.W.L.	Rain Water Leader
R.F.F.	Reference Finish Floor
Refl.	Reflected
Reinf.	Reinforcing
Req.	Required
Ret.	Retaining
Rev.	Revised
R.	Riser
R.D.	Roof Drain
Rm.	Room
R.O.	Rough Opening
Sched.	Schedule
Seal.	Sealant
Sect.	Section
S.Sk.	Service Sink
Sht.	Sheet
Sim.	Similar
Sl/Slp.	Slope
S.C.	Solid Core
Spec.	Specifications
Sq.	Square
Std.	Standard
Stl.	Steel
Stor.	Storage
Struct	Structural/Structure
Sym.	Symmetrical
T.B.R.	To be Removed
Tel.	Telephone
Temp.	Temporary/Tempered
Thk.	Thick (ness)
T & G	Tongue and Groove
T/Conc	Top of Concrete
T/Curb	Top of Curb
T.O. FTG.	Top of Footing
T.O.P.	Top of Plate
T/Wall	Top of Wall
T.	Tread
Typ.	Typical
Unf.	Unfinished
U.N.O.	Unless Noted Otherwise
Var.	Vary or Varies
Vert.	Vertical
V.T.R.	Vent Through Roof
VCT	Vinyl Composition Tile
w/	With
W.A.S.	Welded Anchor Stud
Wd.	Wood
Wp.	Waterproof
Wsct.	Wainscot
w/o	Without
W.P.	Working Point
W.R.	Water Resistant
W.I.	Wrought Iron

GRAPHIC SYMBOLS



MATERIALS LEGEND



VICINITY MAP

PROJECT DIRECTORY

ARCHITECTURAL

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(801) 596.0691, FAX (801) 596.0693

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MECHANICAL

OLSEN & PETERSON CONSULTING ENGINEERS
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Salt Lake City, Utah 84115
(801) 486-4646, FAX (801) 487-2531

ELECTRICAL

BNA CONSULTING ENGINEERS
635 SOUTH STATE STREET
Salt Lake City, Utah 84111
(801) 532-2196, FAX (801) 532-2305

DRAWING INDEX

GENERAL DRAWINGS

GI001	GENERAL INFORMATION, SHEET INDEX & TITLE SHEET
GI002	CODE INFORMATION
GI101.A	1ST FLOOR CODE PLAN AREA A
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GI102	2ND FLOOR CODE PLAN

STRUCTURAL DRAWINGS

SE001	GENERAL NOTES & INSPECTION
SE002	SIKA CARBODUR & SKIDADUR 30 DATA SHEETS ALTERNATE #1
SE101	PLANS & DETAILS, BASE BID= DETAILS "D1" & "E1", REMAINDER= ALTERNATE #1

ARCHITECTURAL DRAWINGS

AD101.A	1ST FLOOR DEMOLITION PLAN AREA A
AD101.B	1ST FLOOR DEMOLITION PLAN AREA B
AD111.A	1ST FLOOR REFLECTED CEILING DEMOLITION PLAN AREA A
AD111.B	1ST FLOOR REFLECTED CEILING DEMOLITION PLAN AREA B
AE101.A	1ST FLOOR PLAN AREA A
AE101.B	1ST FLOOR PLAN AREA B
AE102 ALT 1	ALT #1 PARTIAL 1ST & 2ND FLOOR PLANS & ROOF PLAN
AE111.A	1ST FLOOR REFLECTED CEILING PLAN AREA A
AE111.B	1ST FLOOR REFLECTED CEILING PLAN AREA B
AE201	SOUTH ELEVATIONS
AE202 ALT 1	ALT #1 NORTH & EAST ELEVATIONS & WALL SECTIONS
AE301	WALL SECTIONS
AE401	CASEWORK ELEVATIONS & DETAILS
AE402	INTERIOR ELEVATIONS & DETAILS
AE501	CEILING, ROOF & MISC. DETAILS
AE502	WALL & MISC. DETAILS
AE503 ALT 1	ALT #1 ENLARGED PLANS, ELEVATIONS & DETAILS
AE601	DOOR SCHEDULE & DETAILS
AE901.A	1ST FLOOR FURNITURE PLAN AREA A (FOR REFERENCE ONLY)
AE901.B	1ST FLOOR FURNITURE PLAN AREA B (FOR REFERENCE ONLY)

MECHANICAL DRAWINGS

FP-101	FIRE PROTECTION FLOOR PLANS
MD-101A	FIRST FLOOR MECHANICAL DEMO AREA - A
MD-101B	FIRST FLOOR MECHANICAL DEMO AREA - B
MD-101C	SECOND FLOOR MECHANICAL DEMO AREA - C
M-101A	FIRST FLOOR MECHANICAL PLAN AREA - A
M-101B	FIRST FLOOR MECHANICAL PLAN AREA - B
M-101C	SECOND FLOOR MECHANICAL PLAN AREA - C
M-501	MECHANICAL SCHEDULES & DETAILS
PD-101	PLUMBING DEMOLITION
P-101A	FIRST FLOOR PLUMBING PLAN AREA - A
P-101B	FIRST FLOOR PLUMBING PLAN AREA - B
P-101C	SECOND FLOOR PLUMBING PLAN AREA - C
P-501	PLUMBING SCHEDULES & DETAILS

ELECTRICAL DRAWINGS

EG001	SYMBOLS, SCHEDULES & NOTES
ED101A	ELECTRICAL DEMOLITION PLAN - AREA A
ED101B	ELECTRICAL DEMOLITION PLAN - AREA B
ED101C	ELECTRICAL DEMOLITION PLAN - AREA C
EL101A	LIGHTING PLAN - AREA A
EL101B	LIGHTING PLAN - AREA B
EL101C	LIGHTING PLAN - AREA C
EP101A	POWER PLAN - AREA A
EP101B	POWER PLAN - AREA B
EP101C	POWER PLAN - AREA C
EE101B	ELECTRICAL PLAN - ALTERNATE NO.1 AREA B
EX501	ELECTRICAL DIAGRAMS
EX502	ELECTRICAL DIAGRAMS
EX601	ONE-LINE DIAGRAM
EX602	PANELBOARD SCHEDULES

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OREM, UTAH 84058

MARK	DATE	DESCRIPTION

DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	BWS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

GENERAL INFO, SHEET INDEX & TITLE SHEET

GI001

SHEET 1 OF 25

NONSTRUCTURAL COMPONENTS

NONSTRUCTURAL COMPONENT CHECKLIST

ITEM DESCRIPTION	NOT REQUIRED	ON CONST. DOCUMENTS	DEFERRED SUBMITTAL	COMMENTS
Architectural Components:				
Interior Nonstructural Walls & Partitions		X		SEE SHEETS AE101.A, AE101.B & AE102 ALT #1
Cantilever Elements (i.e. parapets, etc.)	X			
Exterior Nonstructural Wall Elements	X			
Veneer		X		SEE SHEETS AE401 & AE402
Penthouses	X			
Ceilings (i.e. suspended grid or hard-lid)		X		SEE SHEETS AE111.A, AE111.B & AE102 ALT #1
Cabinets (i.e. storage cabinets, equip. etc.)		X		SEE SHEETS AE401 & AE402
Access Floors	X			
Storage Racks	X			
Appendages & Ornamentations	X			
Signs & Billboards	X			
Other:				
Other:				
MEP Components:				
Fire Sprinklers			X	FIRE SPRINKLER SUBMITTAL
Mechanical Equipment (i.e. HVAC, fans, air handlers, boilers, furnaces, tanks, chillers, water heaters, heat exchangers, evaporators, engines, turbines, pumps, compressors, MFR equipment, etc.)			X	MECHANICAL SUBMITTAL
Electrical Equipment (i.e. generators, batteries, inverters, transformers, MCC, panel boards, switch gear, cabinets, etc.)			X	ELECTRICAL SUBMITTAL
Elevator & Escalator Components	X			
Communication Equipment, Computers, Instrumentation, and Controls	X			
Roof-mounted Chimneys, Stacks, Cooling & Electrical Towers	X			
Lighting Fixtures		X		SEE SHEETS EG001, EL101A, EL101B & EL101C & SPECIFICATIONS
Vibration Isolated Components	X			
Piping & Conduit Systems			X	MECHANICAL & ELECTRICAL SUBMITTAL
Ductwork (including in-line components)			X	MECHANICAL SUBMITTAL
Conveyors	X			
Cable Trays			X	ELECTRICAL SUBMITTAL
Other:				
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.
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 7-05, 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.

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2009	National Electrical Code	2008
International Mechanical Code	2009	Uniform Code for Building Conservation	N/A
International Plumbing Code	2009	ADA Accessibility Guidelines	ADA 2010
International Fire Code	2009		ANSI A117.1 2003
International Energy Conservation Code	2009		

A. Occupancy and Group: B

Change in Use: Yes ____ No X Mixed Occupancy: Yes ____ No X

Special Use and Occupancy (e.g. High Rise, Covered Mall): N/A

B. Seismic Design Category: EXISTING Design Wind Speed: EXISTING mph

C. Type of Construction (circle one): SUBSTITUTING SPRINKLERS FOR 1 HOUR CONSTRUCTION

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: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: NO Nonseparated Uses: NO

F: Sprinklers: YES DESIGN TO IBC SECTION 903.3.1.1

Required: YES Provided: YES Type of Sprinkler System: NFPA 13

G: Number of Stories: 2 Building Height: 30'

H: Actual Area per Floor (square feet): FIRST FLOOR: 47,700, SECOND FLOOR 10,800

I: Tabular Area: 23,000

J: Area Modifications:

a) $A_a = \{A_t + [A_t \times I_f] + [A_t \times I_s]\}$ $\quad I_f = \left[\frac{F}{P} - 0.25\right]\frac{W}{30}$

$86{,}480 = \{23{,}000 + [23{,}000 \times .75] + [23{,}000 \times 2]\}$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$

c) Total Allowable Area for:

1) One Story: 86,480
2) Two Story: $A_a(2)$ 172,960
3) Three Story: $A_a(3)$ N/A

d) Unlimited Area Building: Yes N/A No ____ Code Section: ____

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

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	0	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	1 HR	U419
Partitions - Permanent	0		Fire Walls	NA	
Fire Barriers	1 HR	U419	Fire Partitions	1 HR	U419
			Smoke Partitions	NA	

L. Design Occupant Load: N/A

Exit Width Required: N/A Exit Width Provided: N/A

M. Minimum Number of Required Plumbing Facilities:

a) Water Closets - Required (m) N/A (f) N/A Provided (m) N/A (f) N/A
b) Lavatories - Required (m) N/A (f) N/A Provided (m) N/A (f) N/A
c) Bath Tubs or Showers: N/A
d) Drinking Fountains: N/A Service Sinks: N/A

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I 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.

DEFERRED SUBMITTALS

1. METAL JOISTS.	MAR 2011
2. SIGNAGE.	APR 2011
3. FIRE SPRINKLER SYSTEM.	MAR 2011
4. FIRE ALARM SYSTEM.	MAR 2011
5. SEISMIC RESTRAINT FOR HVAC.	APR 2011
6. SEISMIC RESTRAINT FOR ELECTRICAL.	APR 2011

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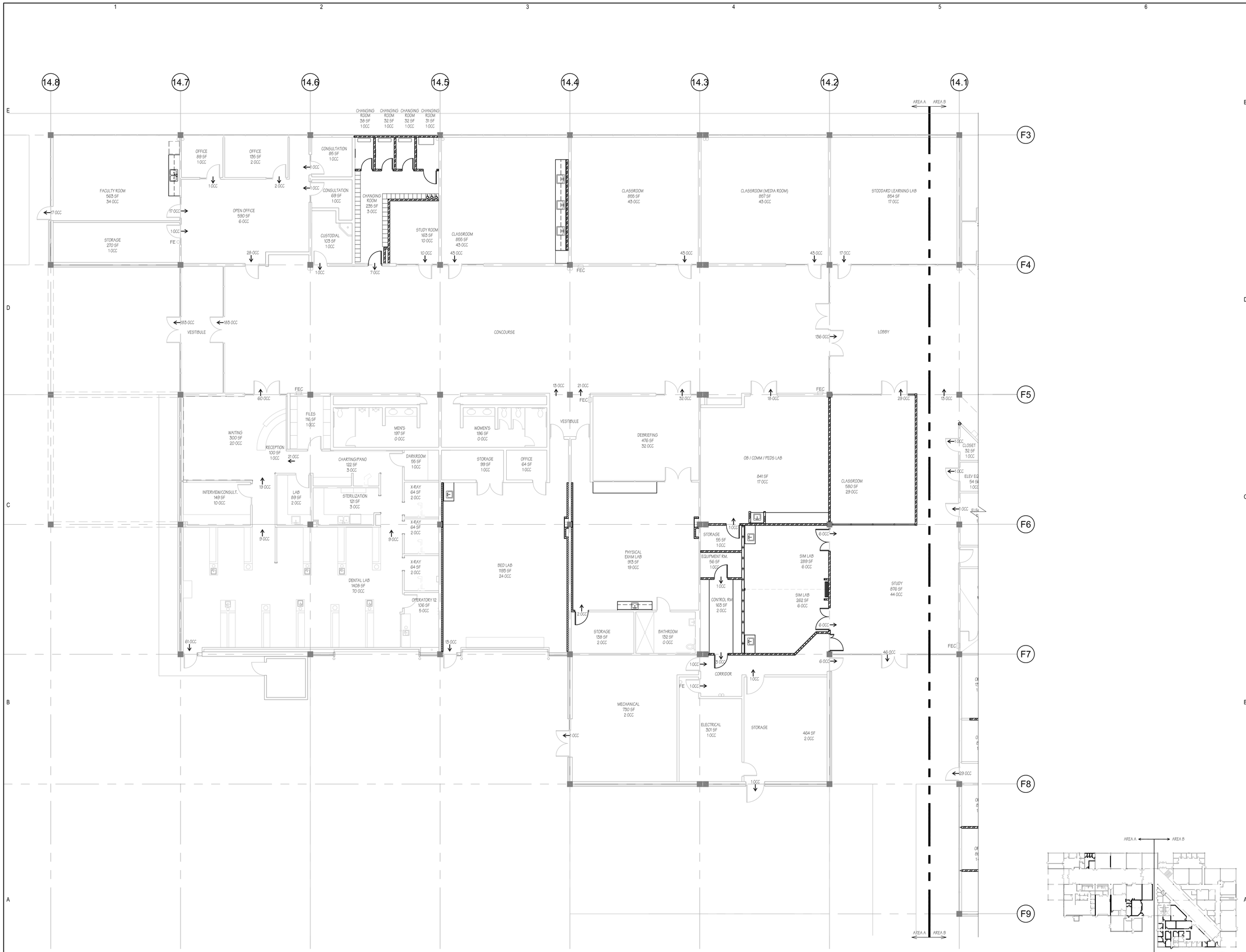
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

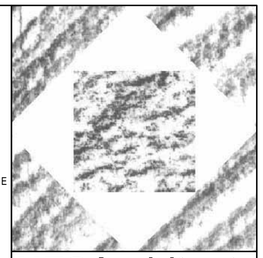
CODE INFORMATION

GI002



A3 1ST FLOOR CODE PLAN - AREA A
1/8"=1'-0"

A6 1ST FLOOR KEY PLAN
1/64"=1'-0"



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SHEET TITLE

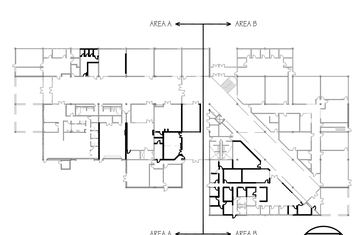
1ST FLOOR CODE PLAN AREA A

GI101.A

SHEET 3 OF 25

A3 ALT #1 1ST FLOOR CODE PLAN - AREA B

1/8"=1'-0"



A6 1ST FLOOR KEY PLAN

1/64"=1'-0"

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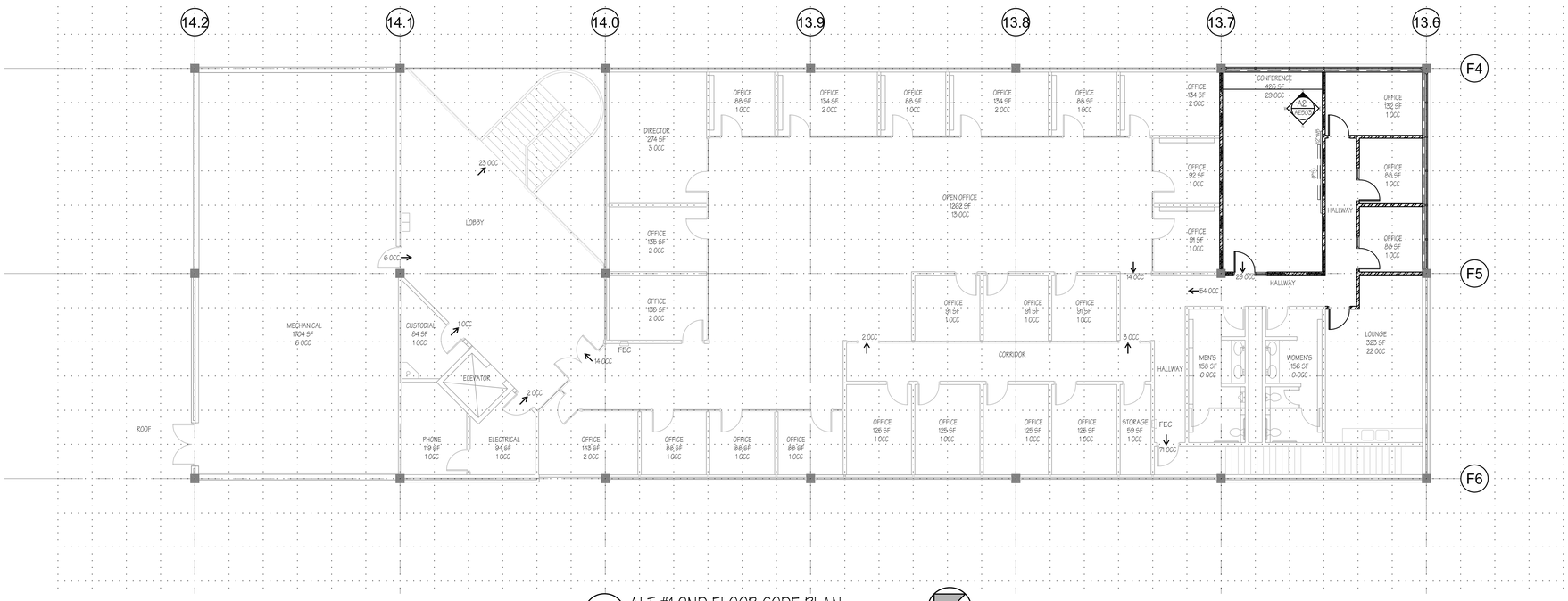
SHEET TITLE

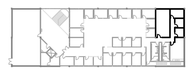
ALT 1 1ST FLOOR CODE PLAN AREA B

GI101.B

SHEET 4 OF 25



A3 ALT #1 2ND FLOOR CODE PLAN
1/8"=1'-0"



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SHEET TITLE

ALT 1
2ND FLOOR
CODE PLAN

GI102

SHEET 5 OF 25

GENERAL NOTES FOR STRUCTURAL SHEETS

BASIS OF DESIGN

1. BUILDING CODE .... 2009 IBC
2. OCCUPANCY CATEGORY II
3. GRAVITY DESIGN:
   DEAD LOADS:
   - Roofs .... 20 psf
   - Floors .... 100 psf
   - Partitions .... 15 psf

   LIVE LOADS:
   - Roofs .... 20 psf
   - Floors .... 50 psf
   - Corridors .... 100 psf

   SNOW LOADS:
   - Snow load on ground, Pg .... 47.1 psf
   - Snow load on flat roof, Pf .... 33 psf
   - Exposure factor, Ce 1.0
   - Importance factor, Is 1.0
   - Thermal factor, Ct 1.0
4. WIND DESIGN:
   - Basic wind speed .... 90 mph
   - Importance factor, Iw 1.0
   - Exposure C
5. SEISMIC DESIGN:
   - Importance factor, Ie 1.0
   - Mapped Spectral response accelerations: Ss & S1 .... 1.131 & .474
   - Site class .... D
   - Spectral response coefficients: SDs & SD1 .... 0.79 & 0.48
   - Seismic Design Category .... D
   - Basic Seismic-Force-Resisting System: Special concrete moment frame
   - Design Base Shear .... .07*WT.
   - Seismic response coefficient, Cs .... .07
   - Response modification factor, R 8
   - Analysis procedure .... Equivalent Lateral Force
6. SOILS:
   - Soil bearing pressure .... 3500 psf
   - Minimum frost cover .... 30 inches
7. ABBREVIATIONS:
   - EOR = Engineer of record. See professional stamp this page.
   - UNO = Unless noted otherwise
   - (E) = Existing condition
   - (N) = New construction

GENERAL

1. THE GENERAL CONTRACTOR SHALL:
   A. Be familiar with the contract documents and insure that subcontractors are familiar with their portion of the work. Submit a written request to the Arch/EOR for approval before proceeding with any changes.
   B. Verifies site conditions and dimensions at the site. If they differ from the contract documents, notify the Arch/EOR prior to fabrication/construction of affected elements. Existing condition information on the drawings is based on best knowledge acquired during the design phase and may differ from actual conditions. Affected details may require redesign.
   C. Report to the Arch/EOR modifications made to the structure.
   D. Be responsible for safety and protection on and around the job site and adjacent properties.

2. THE GENERAL CONTRACTOR SHALL COORDINATE:
   A. And verify locations, weights and sizes of mechanical units, equipment, etc. prior to the fabrication and erecting of structural supporting elements. Report sizes and locations that differ from those shown on the drawings to the Arch/EOR for review. Additional framing maybe required.
   B. Roof, floor, and wall openings required for mechanical, etc. which are not shown on the structural drawings with the Arch/EOR.
   C. Any structural situation not covered by the drawings with the Arch/EOR.
   D. Doors, windows, walls, elevations, slopes, stairs, curbs, drains, recesses, depressions, railings, waterproofing, finishes, chamfers, kerfs, pads, landscape walls, trenches in slabs, etc. with the structural work.
   E. Inspections, testing, and structural observations as work proceeds. Notify the EOR 48 hours prior to any required structural observations.

3. CONTRACT DOCUMENTS & DRAWINGS:
   A. These structural notes complement the specifications and the drawings.
   B. Specific details, sections and notes shown on the drawings govern over these general notes and typical details.
   C. Contract documents take precedence over shop drawings, UNO.
   D. Apply typical or similar details, sections and notes to similar situations on the drawings where specific details are not referenced.
   E. Drawings and details have been prepared to visually represent information provided in scaled form. However, DO NOT scale plans or details for dimensional information.
   F. Refer to architectural drawings for dimensions.

4. BUILDING CODE COMPLIANCE: Construction, inspection, materials, testing, and workmanship shall conform to the requirements of the governing building code.

5. CONSTRUCTION SEQUENCE, SHORING, AND BRACING REQUIREMENTS: The general contractor is responsible for the method, means, and sequence of structural erection, UNO. He shall provide adequate temporary shoring or bracing for all structural elements until the entire structural system is completed. Design of shoring and bracing is by others at no additional cost to the owner.

6. OMISSIONS, CONFLICTS & DISCREPANCIES:
   A. Bring omissions, conflicts or discrepancies between the elements of the contract documents to the attention of the Arch/EOR before proceeding with work involved.
   B. In case of conflicts or discrepancies, follow the most stringent requirements as directed by the Arch/EOR.

7. MISCELLANEOUS:
   A. During and after construction, builder and/owner shall keep loads on the structure within the limits of this design. See Basis of Design.
   B. Site observations by WCA's field representative shall neither be construed as inspection nor approval of construction.

8. SUBMITTALS:
   A. Make submittals in a timely manner. WCA's review is for general compliance only and is not intended as approval. Contractor is responsible for verifying sizes, dimensions and elevations on submittals as related to the contract documents.
   B. Submit the following items for review prior to proceeding with the work:

      Concrete material Certifications & mix designs.
      Shop Drawings: Reinforcing steel
      Steel joist
      Steel deck
      Structural steel
      Roof, floor and wall openings not shown on the drawings.

   C. Allow two weeks for the review of submittals by the EOR.
   D. Have EOR approved shop drawings & materials on site before construction of those components begins.
   E. Substitutions are not allowed unless approved by the EOR. Submit requests for structural substitutions to the Arch/EOR.

EPOXY

1. PRODUCT:
   A. Epoxy for Concrete Connections shall be:
      1. "Hit RE 500" by Hilti Corporation
      2. "Set-XP" by Simpson Strong Tie
      3. "PE1000+" by Powers Fasteners
   B. Epoxy for Masonry Connections shall be:
      1. "Hit RE 500" or "Hit HY 150 Max" by Hilti Corporation (grouted cells)
      2. "Hit HY 20" by Hilti Corporation (un-grouted cells, with screen tubes)
      3. "Set Epoxy-Tie" by Simpson Strong Tie
      4. "Powers-Fast" by Powers Fasteners

2. INSTALLATION:
   A. All drilled holes for anchors rods 1" in diameter and smaller shall be 1/8" larger than the anchor rod being installed. All drilled holes for anchor rods greater than 1" in diameter shall be 1/4" larger than the bar or anchor rod being installed.
   B. After drilling the proper size hole, clean the walls and bottom of the drilled hole of all dust and debris using a nylon brush in conjunction with oil free compressed air. The hole shall be free of dust, debris and standing water.
   C. Follow all manufacturers' recommendations for epoxy installation.

REINFORCING STEEL

1. CODES AND STANDARDS. Comply with:
   A. CRSI "Manual of Standard Practice".
   B. ACI "Detailing Manual", ACI 315 (or SP-66).

2. MATERIALS:
   A. New stock deformed rebar: ASTM A615, Grade 60, except as noted.
      a. Field bent dowels: ASTM A615, Grade 40 or ASTM A706, Grade 60, Low-Alloy Steel. Reduce spacing of grade 40 dowels by 1/3.

3. CONSTRUCTION:
   A. Detail, bolster, and support all rebar. Tie bars securely with proper clearances before casting concrete.
   B. Use rebar free of loose flaky rust, scale, grease, oil, dirt, and other materials, which affect or impair bond.
   C. Place rebar continuous in walls, beams, columns, slabs, footings, etc.
   D. Minimum lap splices (Inches), for normal weight concrete and masonry with strengths specified per 'General Structural Notes', UNO:

	#3	#4
Concrete:	24"	24"
Masonry:	24"	24"

   E. Make cold bends. DO NOT use heat. Bends in the fabricator's shop, UNO. DO NOT unbend or rebend a previously bent bar.
   F. Minimum concrete cover: (securely position and anchor rebar prior to pour)

      Exposed to earth or weather:
      - #5 and smaller .... 1-1/2"

      NOT exposed to earth or weather:
      - Slabs, walls and joist, #11 & smaller .... 3/4"
      - Slabs-On-Grade (SOG) .... Center of slab, UNO

STEEL STUD FRAMING

1. PRODUCT:
   A. Stud type and size as shown on the plans are per the "Steel Stud Manufacturer's Association" catalog. Alternate systems will be considered if the contractor identifies & provides equivalent sections as those shown on the plans. The alternate system must be approved by the EOR before installation.
   B. Prime paint carbon steel and accessories with rust inhibitive paint meeting performance requirements of TT-P-636C. If this requirement can not be met, use galvanized materials.

2. MATERIALS:
   A. 18-gauge & lighter studs, tracks & joists: Fy = 33 ksi min.
   B. 16-gauge & heavier studs, tracts & joists: Fy = 50 ksi min.
   C. Carbon Steel: Fy = 33 or 50 ksi, ASTM A1003
      Galvanized Steel: Fy = 33 ksi, ASTM A653 SS Grade 33
      Fy = 50 ksi, ASTM A653 SS Grade 50, Class 1 or 3

3. CONNECTIONS: Fasten components by field welding, UNO. Touch-up welds with paint. Touch-up welds of galvanized steel with zinc-rich paint.

4. CONSTRUCTION:
   A. Anchor tracks to the supporting structure w/ 5/8" dia. bolts @ 32" o.c., UNO.
   B. Anchor studs to adjacent walls with w/ Hilti ZF 27 P8S23 (or equal) powder actuated fasteners at 16" o.c., UNO.
   C. Butt-weld abutting lengths of track to a common structural element or each other, UNO.
   D. Plumb, align and securely attach studs to flanges of both upper and lower tracks. Bearing walls must be framed with studs seated against the track webs (No gaps).
   E. Frame headers and supporting studs at wall openings.
   F. Install jack studs or cripples below windowsills, above window and door heads, and elsewhere to furnish support and securely attached to connecting members.

5. SHOP DRAWINGS: Prior to fabrication or framing the contractor shall submit erection drawings and design calculations prepared by the manufacturer or supplier for review by the structural engineer. Construction shall follow the approved shop drawings.

STATEMENT OF SPECIAL INSPECTIONS

1. The inspection requirements as noted on this sheet are required for the items that are specifically noted, designed and detailed in the structural documents. Refer to the current IBC, Chapter 17, the architectural drawings, and the geotechnical report for additional information and additional inspection requirements for non-structural items.

2. The project owner shall employ one or more special inspectors to provide inspections during construction on the types of work listed below. The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official and/or EOR, for inspection of the particular type of construction or operation requiring special inspection. These inspections are in addition to the inspections required by the building department of the local jurisdiction.

3. Special inspectors shall keep records of inspections. The special inspector shall furnish inspection reports to the building official and to the EOR in responsible charge. Reports shall indicate that work inspected was done in conformance with approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the EOR in responsible charge prior to the completion of that phase of the work. A final report documenting required special inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the building official prior to the start of work.

4. Special inspections for each task shall be carried out in compliance with requirements per the current IBC and other material standards.

5. FABRICATION SHOP REQUIREMENTS
   A. Where fabrication of structural load bearing members and assemblies are being performed on the premises of a fabricators shop, special inspections required shall be provided in the shop during the fabrication process. This requirement may be excepted if the work is done on the premises of a fabricator registered and approved to perform such work without special inspection. A certificate shall be required to verify such approval. At completion of the fabrication, the approved fabricator shall submit a certificate of compliance to the building official stating that the work was performed in accordance with the approved construction drawings

6. TESTING: The owner will provide testing by qualified testing personnel for the following types of construction:

   Bolting: installation and correct torque and/or tension.
   Concrete: strength, slump, air, and temperature. (see Concrete Notes 3(E) on GSN for concrete items that require testing)
   Drill and epoxy anchors: load test 10% of anchors, with a minimum of (2) anchors tested

7. THE CONTRACTOR SHALL:

   A. Coordinate testing. DO NOT proceed with subsequent work until inspections and testing has been approved.
   B. Copy inspection reports/testing results to the Arch/EOR and owner before work proceeds.
   C. Correct deficient work at no additional cost to the owner.

CONCRETE

1. CODES AND STANDARDS. Comply with the following Codes:
   A. ACI 301, "Specifications for Structural Concrete for Buildings".
   B. ACI 318, "Building Code Requirements for Reinforced Concrete".
   C. ACI 347, "Recommended Practice for Concrete Form Work".

2. MATERIALS shall conform to the following:
   A. Cement: ASTM C150, Type I, Portland Cement.
   B. Hard rock aggregates: ASTM C33
      Lightweight aggregates: ASTM C330
   C. Water shall be potable.
   D. Air entrainment: ASTM C260
   E. Fly ash: ASTM C618
   F. Calcium chloride SHALL NOT be used.

3. MIX DESIGNS:
   A. Place only one type of concrete at any given time.
   B. The maximum slump shall be 4" w/o plasticizer added.
   C. Use pea gravel and/or plasticizer in congested areas.
   D. Limit fly ash to 20% of the total cement.
   E. Concrete mixes shall conform to the following:

TYPE OF CONCRETE MEMBER	28 DAY STRENGTH	MAX. W/C	MAX. AGGREGATE SIZE (ratio)	AIR (inches)	SPECIAL INSPECTIONS & TESTING (%) (required)
Slabs on grade:					
Interior	3000	0.50	1.5*	0 to 2	NO
Exterior	4500	0.45	1.5*	6 ±1	NO
Suspended slabs:					
Lt. Wt.**					
Interior	4000	0.53	3/4	6 ±1	YES
Concrete poured over steel deck:					
Normal Wt.					
Interior	4000	0.45	3/4	3 ±1	YES
Exterior	4500	0.45	3/4	6 ±1	YES
Lt. Wt.**					
Interior	4000	0.53	3/4	6 ±1	YES

   **Lt. Wt. Concrete shall have a min. splitting tensile strength of 450 psi, and the Max. dry weight shall be 110 pcf.

4. CONSTRUCTION:
   A. Mechanically vibrate concrete during placement.
   B. Prior to placing concrete, check with trades to insure proper placement of openings, block outs, sleeves, curbs, conduits, bolts, inserts, embeds, dowels, etc. Place anchor bolts and dowels prior to casting concrete, UNO.

5. SLABS ON GRADE (SOG):
   A. Minimum Interior slabs on grade requirements:
      4 inches thickness.
      4 inch layer of free-draining gravel base.
      #4 bars at 24" o.c. both ways, UNO. Chair rebar for proper placement.
   B. Place large areas of interior slabs-on-grade in strips not to exceed 120 feet in length nor 20 feet in width. Subdivide by construction or contraction (control) joints into roughly squares whose sides DO NOT exceed 10 feet in either direction.
   C. See Architectural for exterior slabs on grade, UN0.

STRUCTURAL STEEL

1. CODES AND STANDARDS: Comply with:
   A. AISC "Specification for Structural Steel Buildings & Commentary".
   B. AISC "Code of Standard Practice" excluding sections 7.5.4, and 7.11.5.
   C. AWS "Structural Welding Code", exclude items conflicting with AISC.

2. MATERIALS SHALL CONFORM AS FOLLOWS:
   A. Misc. shapes & plates: ASTM A53, Fy = 36 ksi.
   B. Other bolts: ASTM A307 or better.
   C. Beams: A992, Fy = 50 ksi

3. CONSTRUCTION:
   A. Fabricate in an approved fabricator's shop.

4. BOLTED CONNECTIONS:
   A. Use 3/4" diameter bolts in Std. holes (bolt diameter + 1/16"), UNO.
   B. Connections: Use ASTM A307 bolts or better except for anchor rods, UNO.
   C. Use hardened washers beneath the turned element of the bolt or nut. Use beveled hardened washers where the outer face of bolted parts has a slope greater than one in twenty with respect to the plane normal to the bolts axis. At oversized holes, use hardened washers or plates at least 5/16" thick conforming to ASTM F436.
   D. Tighten bolts until all plies of the joint are in firm contact. Snug tight condition, UNO.
   E. Enlarge bolt holes by reaming. DO NOT torch cut.

STEEL JOISTS AND JOIST GIRDERS

1. PRODUCT: Design, fabricate, and install open web joists, girders, and accessories in compliance with the "Standard Specifications of the Steel Joist Institute", AISC specifications and with product approval from the Steel Joist Institute.

2. DESIGN:
   A. The manufacturer is responsible for the design and fabrication of the joists, girders and their accessories.
   B. Design roof joists and girders to support a net uplift of 15 psf in addition to the vertical loads shown in the BASIS OF DESIGN section of these general notes.
   C. Design joists and girders to support mechanical units, special equipment, suspended loads and those loads specifically shown on the drawings. Coordinate with the contractor.

3. FABRICATION AND ERECTION:
   A. Provide bridging as shown or called out on the framing plans. Include a horizontal line of bridging at the first bottom chord panel point of all roof joist. If additional bridging is required, show on the shop drawings and provide at no additional cost to the owner. Coordinate.
   B. DO NOT:
      a. Cut, drill, alter, modify, or omit any part of any joist or joist girder without written consent and direction from the manufacturer.
      b. Weld the bottom chords of joist girders to stabilizer plates, UNO. If required (See Plans), weld only after all dead load has been applied.
      c. Hang or place mechanical equipment, pipes or other concentrated loads on joists or girders unless positioned within 4" of a panel point or add (2) L2x2x1/4 angle braces between the load and the nearest opposite chord panel point.

STEEL DECK

1. PRODUCT:
   A. See plans for deck size and gauge, etc.
   B. Manufacture deck and accessories from cold rolled steel conforming to ASTM A653 SS Grade 33 (galvanized G60), and conform to the Steel Deck Institute and AISC Standards.

2. CONSTRUCTION:
   A. Install deck with a minimum of 3 spans, UNO. Where such layout is impossible, decking must meet design criteria for simple span condition.
   B. Provide 2" minimum deck bearing and 4" lap at splice locations. Provide structural support (angles, etc.) around the perimeter of all deck openings.
   C. DO NOT bend or mar deck.
   D. Store decking off the ground with one end elevated. Cover with waterproof material and ventilate to avoid condensation.

3. DECK WELDING REQUIREMENTS:
   A. See plans for welding pattern.
   B. Weld to framing members with E60XX or E70XX electrodes.
   C. Use 3/4" diameter puddle welds. Penetrate all deck layers with weld metal and have proper fusion to the supporting steel.
   D. Crimp side seams before welding side laps or use Verco's Punchlok system w/ connections @ 12" o.c. max. Engage all layers of the deck material. (A standard button punch can **NOT** be used in place of Verco's Punchlok.)
   E. Overlap end laps at least 2" directly over a single steel support. Place welds 1" from the edge of the deck or more.
   F. Welds 3/8" x 1.5" long may replace 3/4" diameter welds.

SPECIAL INSPECTION AND TESTING (IBC 1704)

Indicate required Special inspections for project by checking the appropriate boxes:

FABRICATORS (IBC1704.2)

☐ Approved Fabricator	Fabricators Name:
☐ Unapproved Fabricator	Fabricators Name:

In-plant inspections: ☐ Steel Construction ☐ Welding ☐ Details

STEEL (IBC1704.3)

Item			Reference/Comments
High Strength Bolting(1704.3.3)	☐ Continuous	☐ Periodic	
WELDING (1704.3.1)			
Details (1704.3.2)			
Complete & partial penetration groove welds	☐ Continuous	☐ Periodic	
Multipass fillet welds	☐ Continuous	☐ Periodic	
Single-pass fillet welds > 5/16"	☐ Continuous	☐ Periodic	
Single-pass fillet welds ≤ 5/16"	☐ Continuous	☑ Periodic	Field Welds only
Floor & roof deck welds	☐ Continuous	☑ Periodic	Roof Deck before cover-up
REINFORCEMENT STEEL	☐ Continuous		
Verification of weldability	☐ Continuous	☐ Periodic	
Shear wall and shear reinforcement	☐ Continuous	☐ Periodic	
Other reinforcement	☐ Continuous	☐ Periodic	
Steel frame joint details	☐ Continuous	☐ Periodic	

CONCRETE CONSTRUCTION (IBC1704.4)

Item			Reference/Comments
Materials (1704.4.1)	☐ Continuous	☐ Periodic	
Steel placement	☐ Continuous	☑ Periodic	Topping Slab before concrete pours
Steel welding	☐ Continuous	☐ Periodic	
Bolts prior & during placement	☐ Continuous	☐ Periodic	
Use of required design mix	☐ Continuous	☑ Periodic	Topping Slab before concrete pours
Concrete sampling for strength test, slump, air content, and temperature of concrete	☑ Continuous	☐ Periodic	Topping Slab
Concrete ~~& shotcrete~~ placement	☐ Continuous	☑ Periodic	Topping Slab
Curing temperature and techniques	☐ Continuous	☑ Periodic	Check for cold & hot weather protection
Pre-stressed concrete	☐ Continuous	☐ Periodic	
Pre-cast concrete	☐ Continuous	☐ Periodic	
Posttentsioned concrete	☐ Continuous	☐ Periodic	
Form work	☐ Continuous	☐ Periodic	

MASONRY CONSTRUCTION (IBC1704.5)

Item			Reference/Comments
As masonry construction begins:			

Site prepared mortar	☐ Continuous	☐ Periodic	
Construction of mortar joints	☐ Continuous	☐ Periodic	
Location of reinforcement, connectors, ~~pre-stressing tendons and anchorages~~	☐ Continuous	☐ Periodic	
Pre-stressing technique	☐ Continuous	☐ Periodic	
Grade and size of pre-stressing tendons and anchorages	☐ Continuous	☐ Periodic	
Inspection program verify:			
Size and location of structural elements	☐ Continuous	☐ Periodic	
Type, size and location of anchors	☐ Continuous	☐ Periodic	
Size, grade and type of reinforcement	☐ Continuous	☐ Periodic	
Welding of reinforcement	☐ Continuous	☐ Periodic	
Cold and hot weather protection	☐ Continuous	☐ Periodic	
Application and measurement of pre-stressing force	☐ Continuous	☐ Periodic	
Prior to grouting verify			
Clean grout space	☐ Continuous	☐ Periodic	
Placement of reinforcement	☐ Continuous	☐ Periodic	
Grout mix	☐ Continuous	☐ Periodic	
Mortar joints	☐ Continuous	☐ Periodic	
Grout placement	☐ Continuous	☐ Periodic	
Grout and mortar specimens and prisms	☐ Continuous	☐ Periodic	
Construction and submittal compliance verification	☐ Continuous	☐ Periodic	
Empirical masonry – Cat. I-III (1708.1.1)	☐ Continuous	☐ Periodic	
Empirical masonry – Cat. IV (1708.1.1)	☐ Continuous	☐ Periodic	
Engineered masonry – Cat. I-III 1708.1.1	☐ Continuous	☐ Periodic	
Engineered masonry – Cat. IV (1708.1.1)	☐ Continuous	☐ Periodic	
Engineering & pre-stressing steel (1708.3)	☐ Continuous	☐ Periodic	
Structural steel (1708.4)	☐ Continuous	☐ Periodic	
Qualification of mechanical & electrical equipment (1708.5)	☐ Continuous	☐ Periodic	
Seismically isolated structures (1708.6)	☐ Continuous	☐ Periodic	
Testing for seismic resistance is	☐ Continuous	☐ Periodic	

WOOD CONSTRUCTION (IBC1704.6)

Item			Reference/Comments
Prefabricated elements & assembly	☐ Continuous	☐ Periodic	

SOILS CONSTRUCTION (IBC1704.7)

Item			Reference/Comments
Site preparation	☐ Continuous	☐ Periodic	

Structural fill material	☐ Continuous	☐ Periodic	
Structural fill lift thickness	☐ Continuous	☐ Periodic	
Structural fill soil densities	☐ Continuous	☐ Periodic	
Backfill soils materials	☐ Continuous	☐ Periodic	
Backfill soil densities	☐ Continuous	☐ Periodic	
Fill material under side walks and parking	☐ Continuous	☐ Periodic	
Fill soil densities under side walks and parking	☐ Continuous	☐ Periodic	

PILE FOUNDATIONS (IBC1704.8)

Item			Reference/Comments
Observe driving operation and reporting	☐ Continuous	☐ Periodic	
Verify placement & installation data	☐ Continuous	☐ Periodic	

PIER FOUNDATIONS (IBC1704.9)

Item			Reference/Comments
Observe drilling operation and reporting	☐ Continuous	☐ Periodic	
Verify placement & installation data	☐ Continuous	☐ Periodic	

SPRAYED FIRE-RESISTANT MATERIALS (IBC1704.10)

Item			Reference/Comments
Structural member surface conditions	☐ Continuous	☐ Periodic	
Material application	☐ Continuous	☐ Periodic	
Material thickness	☐ Continuous	☐ Periodic	
Material density	☐ Continuous	☐ Periodic	
Bonding strength	☐ Continuous	☐ Periodic	

MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (IBC1704.11)

Item			Reference/Comments
Material and instillation	☐ Continuous	☐ Periodic	

EXTERIOR INSTULATION AND FINISH SYSTEMS (EIFS) (IBC1704.12)

Item			Reference/Comments
Material and instillation	☐ Continuous	☐ Periodic	

ALTERNITIVE CONSTRUCTION METHODS OR MATERIALS (IBC1704.13)

Item			Reference/Comments
Material and instillation	☐ Continuous	☐ Periodic	

EPOXY (IBC1704.13)

Item			Reference/Comments
Material and instillation	☐ Continuous	☑ Periodic	Check epoxy bolts installation into beams.

SMOKE CONTROL (IBC1704.14)

Item			Reference/Comments
Material	☐ Continuous	☐ Periodic	

Instillation	☐ Continuous	☐ Periodic	

Special inspection for seismic resistance (IBC1707)

Item			Reference/Comments
Structural Steel (1707.2)	☐ Continuous	☑ Periodic	Check epoxy bolts installation into beams.
Structural Wood (1707.3)	☐ Continuous	☐ Periodic	
Cold–formed steel framing (1707.4)	☐ Continuous	☐ Periodic	
Pier foundations (1707.5)	☐ Continuous	☐ Periodic	
Storage racks & access floors (1707.6)	☐ Continuous	☐ Periodic	
Architectural components (1707.7)	☐ Continuous	☐ Periodic	
Mechanical & electrical items (1707.8)	☐ Continuous	☐ Periodic	
Designated systems verification (1707.9)	☐ Continuous	☐ Periodic	
Seismic isolation systems (1707.10)	☐ Continuous	☐ Periodic	

Inspection of seismic resistance are not required per IBC 1705.3 ☐

OTHER

Item			Reference/Comments
Carbon Fiber	☐ Continuous	☑ Periodic	Check procedure. See SE002.
	☐ 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 1704.1.2 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 hrs. of 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 drawings, specifications and applicable codes. IBC 1704.1.2**

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MARK	DATE	DESCRIPTION

DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	WCA 10195
DRAWN BY:	WCA
CHECKED BY:	KW
DESIGNED BY:	KW
DWG TYPE:	STRUCTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION BID DOCUMENTS

SHEET TITLE

GENERAL NOTES AND INSPECTION

SHEET SE001 OF X

GENERAL NOTES FOR SIKA CarboDur Application

CONCRETE BEAM STRENGTHENING

1. PRODUCT:
   A. Use Sika products as listed on this sheet.
   B. See ICBO/ICC ER-5558 for code approval.

2. CONSTRUCTION:
   A. Follow Sika product sheets. This page.
   B. If the bottom surface of the beams is not level, jack beams to a level position before applying Sika products.
   C. Store decking off the ground with one end elevated. Cover with waterproof material and ventilate to avoid condensation.

1

Product Data Sheet
Edition 7.22.2005
Identification no. 332
Sika CarboDur

ICBO/ICC ER-5558

Sika CarboDur®

Carbon fiber laminate for structural strengthening

Description
Sika CarboDur is a pultruded carbon fiber reinforced polymer (CFRP) laminate designed for strengthening concrete, timber and masonry structures. Sika CarboDur is bonded onto the structure as external reinforcement using Sikadur 30 epoxy resin as the adhesive.

Where to Use

Load increases
- Increased live loads in warehouses
- Increased traffic volumes on bridges
- Installation of heavy machinery in industrial buildings
- Vibrating structures
- Changes of building utilization

Damage to structural parts
- Aging of construction materials
- Steel reinforcement corrosion
- Vehicle impact
- Fire

Serviceability improvements
- Decrease in deformation
- Stress reduction in steel reinforcement
- Crack width reduction

Change in structural system
- Removal of walls or columns
- Removal of slab sections for openings

Design or construction defects
- Insufficient reinforcements
- Insufficient structural depth

Advantages
- Very high strength
- Lightweight
- Non-corrosive
- Unlimited lengths
- Minimal preparation of laminates
- Very easy to install, especially overhead
- High modulus of elasticity
- Outstanding fatigue resistance
- Alkali resistant
- Simple laminate intersections or crossings

Typical Data

Base	Carbon fiber reinforced polymer with an epoxy resin matrix.
Shelf Life	Unlimited (no exposure to direct sunlight).
Color	Black
Tensile Strength	
Mean Value	4.49×10^5 psi (3,100 MPa)
Design Value	4.06×10^5 psi (2,800 MPa)
Modulus of Elasticity	
Mean Value	23.9×10^6 psi (165,000 MPa)
Design Value	23.2×10^6 psi (160,000 MPa)
Elongation at Break	1.69%
Design Strain	0.85%
Thickness	0.047 in. (1.2 mm)
Temperature Resistance	>300°F (>150°C)
Fiber Volumetric Content	>68%
Density	0.058 lbs./in^3 (1.60 g/cm^3)

Physical Properties

Product	*Thickness (mils)*	*Width (inches)*	*Cross Sectional Area*	*Tensile Strength*
Type S 512	47.2 (1.2 mm)	1.97 (50 mm)	0.093 sq. in. (60 mm^2)	37.8×10^3 lbs. (168 kN)
Type S 812	47.2 (1.2 mm)	3.15 (80 mm)	0.149 sq. in. (96 mm^2)	60.4×10^3 lbs. (269 kN)
Type S 1012	47.2 (1.2 mm)	3.94 (100 mm)	0.186 sq. in. (120 mm^2)	75.5×10^3 lbs. (336 kN)

C100

2

Coverage
Coverage of Sikadur 30 epoxy resin with CarboDur: Type S 512: approx. 50 LF/gallon. Type S 812: approx. 32 LF/gallon. Type S 1012: approx. 22 LF/gallon.

Packaging
Available in any length up to 250 m (820 ft.). Type S 512: width 50 mm (approx. 2"). Type S 812 width 80 mm (approx. 3"). Type S 1012: width 100 mm (approx. 4").

How to Use

Surface Preparation
Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials and other bond inhibiting materials from the surface. Existing uneven surfaces must be filled with an appropriate repair mortar (e.g. mixed Sikadur 30 epoxy with the addition of 1 part oven-dried sand). The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure.
Surface Levelness/Irregularities: Maximum allowable deviation in 6 ft. shall be limited to 1/4" (6 mm) but no greater than 1/8" (3 mm) per foot. Any sharp edges (i.e. fins, form-marks, etc.) must be ground smooth and flush.
Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open roughened texture.
CarboDur - Wipe clean with appropriate cleaner (e.g. MEK).

Cutting the CarboDur Laminate:

Preferred: CarboDur laminates should be cut with tools using a "shearing" force (e.g. guillotine or heavy duty shears). Care must be taken to support both sides of the CarboDur laminate to avoid splintering.

Alternate: A hack saw or other abrasive cutting method may be used. However, extra care must be taken to support the CarboDur laminate on both sides to avoid splintering. In addition, extra care must be taken to avoid exposure to carbon dust **(see Caution)**.

Mixing
Consult Sikadur 30 technical data sheet for information on epoxy resin.

Application
Apply the neat mixed Sikadur 30 epoxy onto the concrete with a trowel or spatula to a nominal thickness of 1/16" (1.5 mm). Apply the mixed Sikadur 30 epoxy onto the CarboDur laminate with a "roof-shaped" spatula to a nominal thickness of 1/16" (1.5 mm). Within the open time of the epoxy, depending on the temperature, place the CarboDur laminate onto the concrete surface. Using a hard rubber roller, press the laminate into the epoxy resin until the adhesive is forced out on both sides. Remove excess adhesive. Glue line should not exceed 1/8 inch (3 mm). The external reinforcement must not be disturbed for a minimum of 24 hours. The epoxy will reach its design strength after 7 days.

Limitations
Design calculations must be made and certified by an independent licensed professional engineer. Design guidelines are available from Sika Corporation.

Caution
CarboDur strips are non-reactive and fully cured. They do not require a material safety data sheet. However, caution must be used when handling the CFRP laminates since a fine "carbon dust" may be present on the strips. Gloves must therefore be worn to protect against skin irritation.

Caution must also be used when cutting CarboDur laminates to protect against airborne carbon dust generated by the cutting procedure. Use of an appropriate, properly fitted NIOSH approved respirator is recommended.

KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION
KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY
CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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QUALITY ACHIEVEMENT ISO 9001 9002

Quality Certification Numbers: Lyndhurst: FM 69711 (ISO 9000), FM 70421 (QS 9000), Warren: FM 68715, Kansas City: FM 69117, Santa Fe Springs: FM 69498

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C100

3

Edition 7.22.2005
Identification no. 332-15
Sikadur 30

Sikadur® 30

High-modulus, high-strength, structural epoxy paste adhesive for use with Sika CarboDur® reinforcement.

Description
Sikadur 30 is a 2-component, 100% solids, moisture-tolerant, high-modulus, high-strength, structural epoxy paste adhesive. It conforms to the current ASTM C-881 and AASHTO M-235 specifications.

Where to use
- Adhesive for bonding external reinforcement to concrete, masonry, steel, wood, stone, etc.
- Structural bonding of composite laminates (Sika CarboDur CFRP) to concrete.
- Structural bonding of steel plates to concrete.
- Suitable for use in vertical and overhead configurations.
- As a binder for epoxy mortar repairs.

Advantages
- Long pot life.
- Long open time.
- Tolerant of moisture before, during and after cure.
- High strength, high modulus, structural paste adhesive.
- Excellent adhesion to concrete, masonry, metals, wood and most structural materials.
- Fully compatible and excellent adhesion to Sika CarboDur CFRP composite laminate.
- Paste consistency ideal for vertical and overhead applications.
- High creep resistance under permanent load.
- High abrasion and shock resistance.
- Convenient easy mix ratio A:B=3:1 by volume.
- Solvent-free.
- Color-coded components to ensure proper mixing control.

Coverage
Type S 512 CarboDur: approx. 50 LF/gal.; Type S 812 CarboDur: approx. 32 LF/gal.; Type S 1012 CarboDur: approx. 22 LF/gal.

Packaging
1 gal. units.

Typical Data *(Material and curing conditions @ 73°F (23°C) and 50% R.H.)*

Shelf Life	2 years in original, unopened containers.
Storage Conditions	Store dry at 40°-95°F (4°-35°C). **Condition material to 65°-85°F (18°-29°C) before using.**
Color	Light gray
Mixing Ratio	Component 'A'; Component 'B' = 3:1 by volume.
Consistency	Non-sag paste.
Pot Life	Approximately 70 minutes @ 73°F (23°C) (1 qt.)

Tensile Properties (ASTM D-638)

7 day	Tensile Strength	3,600 psi (24.8 MPa)
	Elongation at Break	1%
	Modulus of Elasticity	6.5×10^5 psi (4,482 MPa)

Flexural Properties (ASTM D-790)

14 day	Flexural Strength (Modulus of Rupture)	6,800 psi (46.8 MPa)
	Tangent Modulus of Elasticity in Bending	1.7×10^6 psi (11,721 MPa)

Shear Strength (ASTM D-732) **14 day** Shear Strength 3,600 psi (24.8 MPa)

Bond Strength (ASTM C-882): Hardened Concrete to Hardened Concrete

2 day (moist cure)	Bond Strength	2,700 psi (18.6 MPa)
2 day (dry cure)	Bond Strength	3,200 psi (22.0 MPa)
14 day (moist cure)	Bond Strength	3,100 psi (21.3 MPa)
	Hardened Concrete to Steel	2,600 psi (17.9 MPa)
2 day (moist cure)	Bond Strength	3,000 psi (20.6 MPa)
2 day (dry cure)	Bond Strength	2,600 psi (17.9 MPa)
14 day (moist cure)	Bond Strength	

Heat Deflection Temperature (ASTM D-648)
7 day [fiber stress loading=264 psi (1.8 MPa)] 118°F (47°C)

Water Absorption (ASTM D-570) **7 day** (24 hour immersion) 0.03%

Compressive Properties (ASTM D-695) - Compressive Strength, psi (MPa)

	40°F* (4°C)	73°F* (23°C)	90°F* (32°C)
4 hour	-	-	5,500 (37.9)
8 hour	-	3,500 (24.1)	6,700 (46.2)
16 hour	-	6,760 (46.2)	7,400 (51.0)
1 day	750 (5.1)	7,800 (53.7)	7,800 (53.7)
3 day	6,800 (46.8)	8,300 (57.2)	8,300 (57.2)
7 day	8,000 (55.1)	8,600 (59.3)	8,600 (59.3)
14 day	8,500 (58.6)	8,600 (59.3)	8,900 (61.3)
28 day	8,500 (58.6)	8,600 (59.3)	9,000 (62.0)

Compressive Modulus **7 day** 3.5×10^5 psi (2,689 MPa)

*Material cured and tested at the temperatures indicated.

C120

4

How to Use

Surface Preparation
The concrete surface should be prepared to a minimum concrete surface profile (CSP) 3 defined by the ICRI surface-profile chips. Localized out-of-plane variations, including form lines, should not exceed 1/32 in. (1 mm). Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials, and other bond inhibiting materials from the surface. Existing uneven surfaces must be filled with an appropriate repair mortar (e.g., Sikadur 30 with the addition of 1 part oven-dried sand). The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer: Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure.
Preparation work
Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open roughened texture.
Steel - Should be cleaned and prepared thoroughly by blastcleaning to a white metal finish.
CarboDur - Wipe clean with appropriate cleaner (e.g. MEK).

Mixing
Pre-mix each component. Proportion 1 part Component 'B' to 3 parts Component 'A' by volume into a clean pail. Mix thoroughly for 3 minutes with Sika paddle on low-speed (400-600 rpm) drill until uniform in color. Mix only that quantity which can be used within its pot life.
To prepare an epoxy mortar: slowly add up to 1 part by loose volume of an oven-dried aggregate to 1 part of the mixed Sikadur 30 and mix until uniform in consistency.

Application
For bonded, external reinforcement:
Apply the neat mixed Sikadur 30 onto the concrete with a trowel or spatula to a nominal thickness of 1/16" (1.5 mm). Apply the mixed Sikadur 30 onto the CarboDur laminate with a "roof-shaped" spatula to a nominal thickness of 1/16" (1.5 mm). Within the open time of the epoxy, depending on the temperature, place the CarboDur laminate onto the concrete surface. Using a hard rubber roller, press the laminate into the epoxy resin until the adhesive is forced out on both sides. Remove excess adhesive. Glue line should not exceed 1/8 inch (3 mm). The external reinforcement must not be disturbed for a minimum of 24 hours. The epoxy will reach its design strength after 7 days.
For interior vertical and overhead patching: Work the material into the prepared substrate, filling the cavity. Strike off level. Lifts should not exceed 1 inch (25 mm).

Limitations
- Minimum substrate and ambient temperature is 40°F (4°C).
- Do not thin. Addition of solvents will prevent proper cure.
- Use oven-dried aggregate only.
- Maximum glue line of neat epoxy is 1/8 inch (3 mm).
- Maximum epoxy mortar thickness is 1 inch (20 mm) per lift.
- Minimum age of concrete must be 21-28 days, depending upon curing and drying conditions.
- Porous substrates must be tested for moisture vapor transmission prior to mortar applications.

Caution
Component 'A' - Irritant; Sensitizer - Contains epoxy resin and crystalline silica (sand). Can cause skin sensitization after prolonged or repeated contact. Skin and eye irritant. High concentrations of vapor may cause respiratory irritation. If sanded, crystalline silica dust may be generated and may cause delayed lung injury (silicosis) and is listed as a suspect carcinogen by NTP and IARC (2A). Use only with adequate ventilation. Use of safety goggles and chemical resistant gloves is recommended. In case of exceedance of PELs, use an appropriate, properly fitted NIOSH approved respirator. Remove contaminated clothing. Consult MSDS for more detailed information.
Component 'B' - Corrosive; Sensitizer - Contains amines and crystalline silica (sand). Contact with eyes or skin may cause severe burns. Can cause skin and/or respiratory sensitization after prolonged or repeated contact. Skin and eye irritant. High concentrations of vapor may cause respiratory irritation. Overexposure may cause liver, kidney, and/or central nervous system effects. If sanded, crystalline silica dust may be generated and may cause delayed lung (silicosis) and is listed as a suspect carcinogen by NTP and IARC (2A). Avoid skin contact. Use only with adequate ventilation. Use of safety goggles and chemical resistant gloves is recommended. In case of exceedance of PELs, use an appropriate, properly fitted NIOSH approved respirator. Remove contaminated clothing. Consult MSDS for more detailed information.

First Aid
Eyes: Hold eyelids apart and flush thoroughly with water for 15 minutes. **Skin:** Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. **Inhalation:** Remove person to fresh air. **Ingestion:** Do not induce vomiting. **In all cases, contact a physician immediately if symptoms persist.**

Clean Up
In case of spills or leaks, wear suitable protective equipment, contain spill, collect with absorbent material, and transfer to suitable container. Ventilate area. Avoid contact. Dispose of in accordance with current, applicable local, state and federal regulations. Uncured material can be removed with approved solvent. Cured material can only be removed mechanically.

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NOT FOR INTERNAL CONSUMPTION
KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY
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Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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QUALITY ACHIEVEMENT ISO 9001 9002

Quality Certification Numbers: Lyndhurst: FM 69711 (ISO 9000), FM 70421 (QS 9000), Warren: FM 68715, Kansas City: FM 69117, Santa Fe Springs: FM 69498

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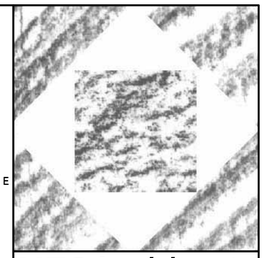

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OREM, UTAH 84058

MARK	DATE	DESCRIPTION

DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	WCA 10195
DRAWN BY:	WCA
CHECKED BY:	KW
DESIGNED BY:	KW
DWG TYPE:	STRUCTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION BID DOCUMENTS

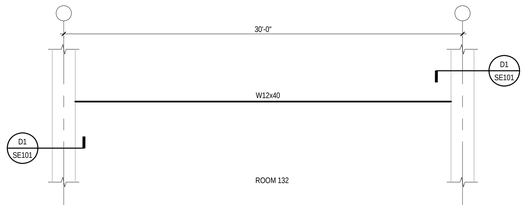
SHEET TITLE

Sika CarboDur & Sikadur 30
Data Sheets

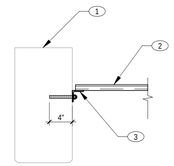
ALTERNATE #1

SE002

SHEET OF x



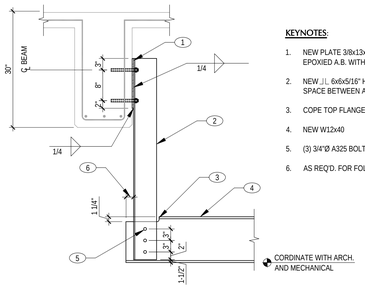
E1 SE101 FOLDING DOOR (BASE BID) PLAN
NO SCALE



E2 SE101 DETAIL
NO SCALE

KEYNOTES:

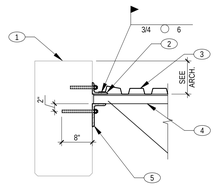
1. (E) 15x30 CONC. BEAM
2. NEW ROOF DECK, SEE PLAN
3. NEW DECK SUPPORT ANGLE L3x3x1/4" CONT. WITH 3/4"Ø EPOXY ANCHORS @ 24"O.C.



D1 SE101 FOLDING DOOR CONNECTION (BASE BID)
NO SCALE

KEYNOTES:

1. NEW PLATE 3/8x13x18-3/8" WITH (4) 3/4"Ø EPOXIED A.B. WITH 5" EMBEDMENT
2. NEW ⊥L 6x6x5/16" HANGERS WITH 3/8" SPACE BETWEEN ANGLES
3. COPE TOP FLANGE
4. NEW W12x40
5. (3) 3/4"Ø A325 BOLTS
6. AS REQ'D. FOR FOLDING DOOR



D2 SE101 DETAIL
NO SCALE

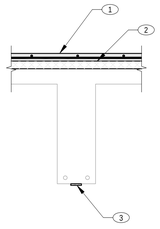
KEYNOTES:

1. (E) 15x30 CONC. BEAM
2. NEW L3x4x1/4" CONT. (LLH) WITH 3/4"Ø EPOXY ANCHORS @ 24"O.C. (4" EMBEDMENT)
3. NEW ROOF DECK, SEE PLAN
4. NEW ROOF JOIST, SEE PLAN
5. NEW JOIST BEARING ANGLE L6x3-1/2x1/2" by 12" WITH (2) 3/4"Ø EPOXY ANCHORS (8" GAGE)

ROOF DECKS

1. SEE GENERAL NOTES: "STEEL DECK" FOR ADDITIONAL INFORMATION.
2. CONNECTIONS: WELD DECK TO SUPPORTING FRAMING MEMBERS WITH EITHER E60 or E70 ELECTRODES WITH PUDDLE WELDS HAVING A FUSION AREA NOT LESS THAN 3/4"Ø (WELDS SHALL PENETRATE ALL LAYERS OF DECK & HAVE PROPER FUSION TO THE SUPPORTING MEMBER) AS FOLLOWS:
   - A. @ EACH FLUTE & (2) @ PANEL LAPS (ONE EACH SIDE OF SEAM).
   - B. 6" O.C. @ ALL SUPPORTS PARALLEL TO DECK CORRUGATIONS.
   - C. FASTEN SIDE LAPS BY ONE OF THE FOLLOWING:
     - a. **HSB TYPE DECK**: TOP SEAM WELDS @ 18" O.C., CRIMP SIDE SEAMS BEFORE WELDING LAPS. ENGAGE ALL LAYERS OF THE DECK MATERIAL.
     - b. **PLB TYPE DECK**: VERCO'S PUNCHLOK SYSTEM W/ CONNECTIONS @ 12" O.C. MAX. ENGAGE ALL LAYERS OF THE DECK MATERIAL. **DO NOT** USE A STANDARD BUTTON PUNCH.
3. ROOF DECK: VERCO TYPE HSB-36 OR PLB-36, 20 GAGE, GALVANIZED G60, 36" WIDE, 1.5" DEEP, HAVING MINIMUM I = 0.216 IN^4, +S = 0.235 IN^3 AND -S = 0.248 IN^3.
4. ALL ROOF DECKING TO BE THREE SPANS MINIMUM, U.N.O.
5. THE REQUIRED ALLOWABLE DIAPHRAGM SHEAR IS **937 plf** WITH A DECK SPAN OF 6'-0". ANY SUBSTITUTION OF THE ABOVE DECK CONNECTIONS SHALL MEET OR EXCEED THE ALLOWABLE DIAPHRAGM SHEAR. CONTACT THE E.O.R. PRIOR TO SUBSTITUTING ANY CONNECTION SPECIFIED.

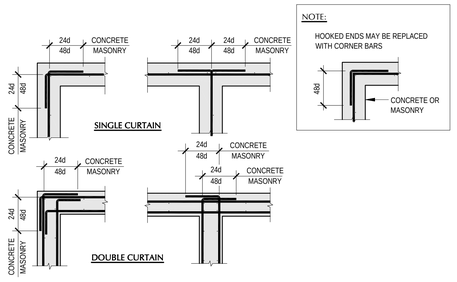
C1 SE101 ROOF DECK
NO SCALE



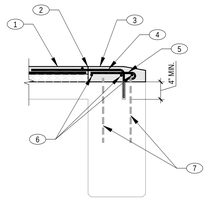
C2 SE101 DETAIL
NO SCALE

KEYNOTES:

1. 4000 psi SAND CONCRETE. APPLY SIKADUR 32, HI-MOD BONDING ADHESIVE BEFORE CONC. PLACEMENT. FOLLOW SIKA "PRODUCT DATA SHEET" FOR APPLICATION.
2. POLYURETHANE SEALANT OR TOOLED JOINT, SEE ARCH.
3. SEE DETAIL C2
4. #3 DOWEL @ 16" O.C. DRILL AND EPOXY



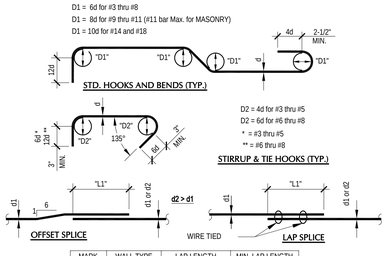
B1 SE101 DETAIL
NO SCALE



B2 SE101 DETAIL
NO SCALE

KEYNOTES:

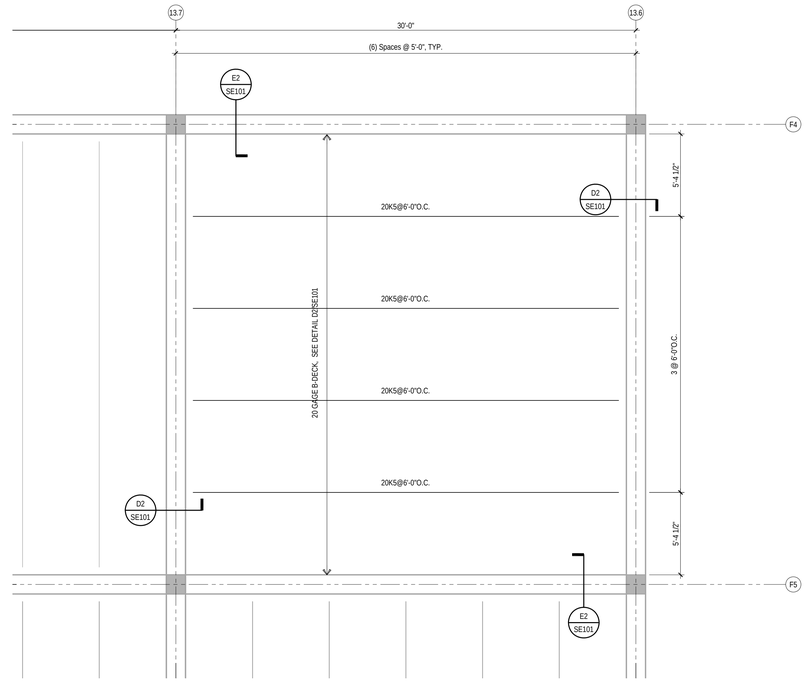
1. SEE DETAIL C2
2. CONSTRUCTION JOINT, SEE ARCH
3. TOP BEAM W/ 4500 psi PEA GRAVEL AND SAND CONC. WITH 6% AIR. APPLY SIKADUR 32, HI-MOD BONDING ADHESIVE BEFORE CONC. PLACEMENT. FOLLOW SIKA "PRODUCT DATA SHEET" FOR APPLICATION
4. #3 DOWEL @ 16"O.C. 24" 7" LAP DOWELS TO FLOOR REINF. EPOXY DOWEL TO (E) BEAM.
5. #3 HOOK @ 16"O.C. 8"
6. (3) #3 CONT.
7. (E) #4 DOWELS, DO NOT REMOVE



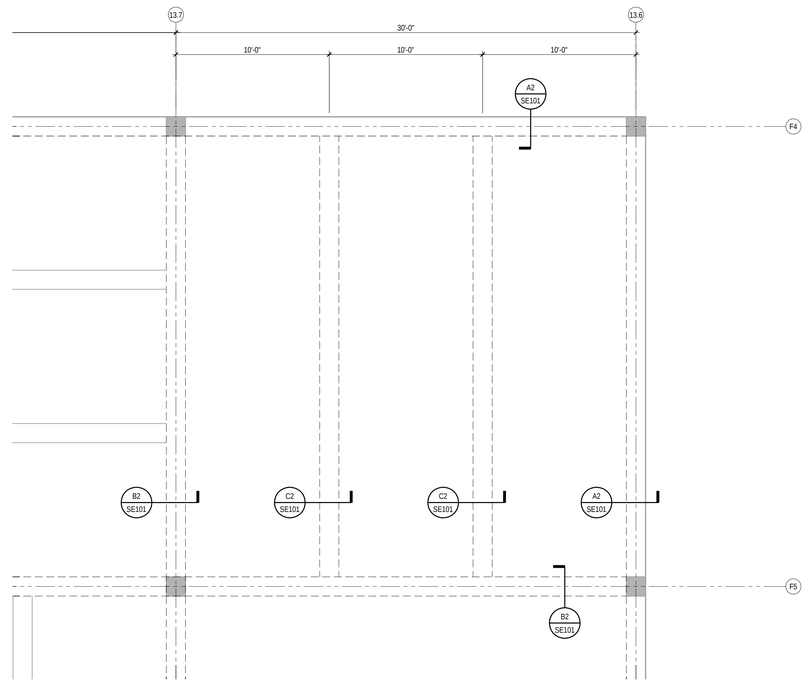
MARK	WALL TYPE	LAP LENGTH	MIN. LAP LENGTH
L1	CONCRETE	30d2 for 40 GRADE	2'-0"
L1	CONCRETE	40d2 for 60 GRADE	2'-0"
L1	MASONRY	48d2	2'-0"

A1 SE101 TYPICAL HOOKS & BENDS
NO SCALE

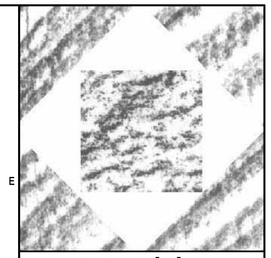
A2 SE101 DETAIL
NO SCALE



1 NORTH
ROOF FRAMING PLAN
SCALE:1/4"=1'-0"



1 NORTH
2ND FLOOR FRAMING PLAN
SCALE:1/4"=1'-0"



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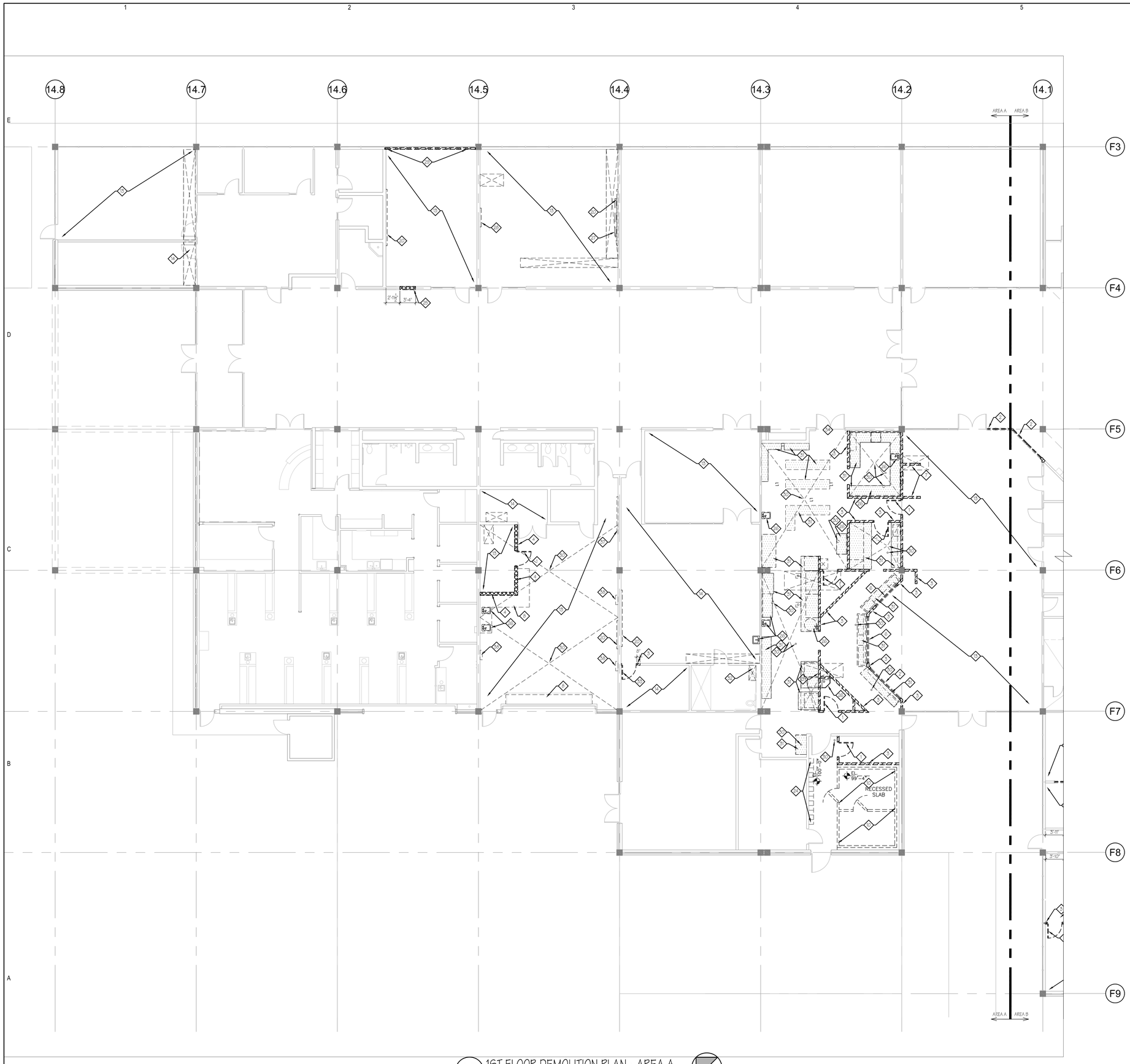
MARK	DATE	DESCRIPTION

DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	WCA 10195
DRAWN BY:	WCA
CHECKED BY:	KW
DESIGNED BY:	KW
DWG TYPE:	STRUCTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION BID DOCUMENTS

SHEET TITLE

PLANS AND DETAILS
BASE BID = Details "D1" & "E1"
Remainder = ALTERNATE #1

SE101
SHEET OF X



A3 1ST FLOOR DEMOLITION PLAN - AREA A
1/8"=1'-0"

GENERAL DEMOLITION NOTES

1. ALL DIMENSIONS & EXISTING CONDITIONS IN AREAS OF WORK ARE TO BE FIELD VERIFIED PRIOR TO COMMENCING WORK - ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT OR ENGINEER OF RECORD PRIOR TO COMMENCING WORK.

2. PROTECT ALL AREAS & SURFACES ADJACENT TO DEMOLITION & CONSTRUCTION. PATCH & REPAIR ANY DAMAGE OR HOLES IN WALLS, CEILINGS & FLOORS RESULTING FROM THE DEMOLITION OF EXISTING ITEMS OR THE CONSTRUCTION OF NEW ITEMS.

3. NOTED AREAS INDICATED THE GENERAL EXTENT OF DEMOLITON. THE CONTRACTOR'S CHOICE OF MEANS & METHODS OF CONSTRUCTION MAY REQUIRE MORE OR LESS DEMOLITION. THE MEANS & METHODS OF DEMOLITION & CONSTRUCTION MUST BE ACCOUNTED FOR IN THE CONTRACTORS BID. ANY DEMOLITION & REPAIR TO ADJACENT SURFACES BEYOND THE AREAS INDICATED IN THE CONTRACT DOCUMENTS WILL NOT BE COMPENSATED FOR AFTER THE BID OPENING.

4. PRIOR TO THE START OF DEMOLITION, THE CONTRACTOR IS TO MEET WITH THE OWNER & ARCHITECT TO IDENTIFY ALL ITEMS TO BE DEMOLISHED & REMOVED FROM SITE, ITEMS TO BE REMOVED & RETURNED TO THE OWNER, OR ITEMS TO BE REMOVED & REINSTALLED.

5. 72-HOUR NOTICE IS REQUIRED FOR ANY UTILITY SHUT DOWN.

6. ANY REPAINTING OF SURFACES REQUIRED DUE TO DAMAGE TO FINISHES DURING DEMOLITION AND CONSTRUCTION MUST BE COMPLETE FROM CORNER TO CORNER.

7. PRIOR TO BIDDING, THE CONTRACTOR IS TO SURVEY THE EXISTING WALL CONDITIONS. ALL EXISTING NAILS, SCREWS, ABANDONED FASTENERS & HARDWARE IN THE WALLS ARE TO BE REMOVED & THE HOLES PATCHED.

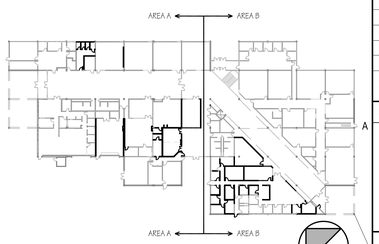
8. SEE ELECTRICAL & MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION & COORDINATE.

PLAN DEMOLITION LEGEND

- EXISTING DOOR & H.M. FRAME TO BE DEMOLISHED, TYPICAL
- REMOVE EXISTING GYPSUM BOARD WALLS COMPLETE
- REMOVE EXISTING CMU WALLS COMPLETE. SAWCUT EXISTING DOWELS & GRIND FLUSH WITH FLOOR
- REMOVE EXISTING BRICK VENEER OVER MTL STUD & GYP BD WALLS
- SAWCUT & REMOVE FLOOR SLAB FOR UNDER SLAB MECHANICAL & ELECTRICAL COORDINATE EXACT LOCATIONS W/ MECH. & ELEC.
- EXISTING KITCHEN EQUIPMENT, SHELVING, COUNTERS, ETC. TO BE REMOVED COMPLETE SEE MECHANICAL & ELECTRICAL FOR ADDITIONAL INFORMATION

DEMOLITION KEYED NOTES

1. REMOVE EXISTING DOOR SYSTEM COMPLETE - SALVAGE HARDWARE TO OWNER.
2. REMOVE EXISTING GLAZING SYSTEM COMPLETE - COMPONENTS MAY BE SALVAGED TO OWNER.
3. REMOVE EXISTING GYPSUM BOARD WALLS COMPLETE.
4. REMOVE EXISTING CMU WALLS COMPLETE. SAWCUT EXISTING DOWELS & GRIND FLUSH WITH FLOOR
5. REMOVE EXISTING EXTERIOR WALLS, TO UNDERSIDE OF BEAM, COMPLETE.
6. REMOVE EXISTING COUNTER DOOR.
7. REMOVE WALL COMPLETE, (ABOVE & BELOW OPENING).
8. REMOVE EXISTING CASEWORK COMPLETE.
9. REMOVE EXISTING HAND RAILING COMPLETE.
10. REMOVE EXISTING WALK-IN COOLER & FREEZER COMPLETE.
11. REMOVE EXISTING PAVERS & SETTING BED COMPLETE.
12. REMOVE TUBE STEEL FRAME COMPLETE.
13. REMOVE EXISTING CARPET & BASE COMPLETE
14. REMOVE EXISTING VCT & BASE COMPLETE.
15. REMOVE VENT. SEE MECHANICAL
16. SAWCUT CONCRETE FLOOR. REMOVE CONCRETE & TRENCH FOR NEW UTILITIES - SEE PLUMBING DRAWING.
17. REMOVE GYPSUM BOARD WALL FOR NEW OPENING. COORDINATE WITH FLOOR PLANS AND DOOR SCHEDULE.
18. REMOVE LIGHT FIXTURES - SALVAGE TO OWNER. SEE ELECTRICAL.
19. REMOVE LIGHT FIXTURE & WOOD VALANCE. SEE ELECTRICAL
20. REMOVE WHITE BOARD - SALVAGE TO OWNER.
21. REMOVE TV BRACKET.
22. REMOVE WINDOW BLINDS - SALVAGE TO OWNER.
23. REMOVE ANTENNAE & MAST - SALVAGE TO OWNER.
24. REMOVE LOCKERS COMPLETE.
25. SAWCUT CMU FOR NEW OPENING - CUT AT GROUT LINES ONLY. PATCH DEMOLITION DAMAGE WITH NEW MATCHING CMU. TOOTH INTO EXISTING CMU.
26. REMOVE SINK COMPLETE. SEE MECHANICAL
27. REMOVE PROJECTION SCREEN - SALVAGE TO OWNER.
28. REMOVE TACK BOARD - SALVAGE TO OWNER.
29. REMOVE WINDOW SILL & LOW WALL TO THE INSIDE OF THE EXTERIOR WALL SYSTEM COMPLETE.
30. CAP DRAIN.
31. REMOVE KITCHEN EQUIPMENT COMPLETE.
32. REMOVE EXISTING CERAMIC TILE & BASE COMPLETE.
33. REMOVE EXISTING DOOR SYSTEM COMPLETE - SALVAGE DOOR & HARDWARE TO BE REUSED. SEE FLOOR PLANS.
34. REMOVE BOTTOM KODS & PATCH HOLES.
35. REMOVE S.S. COUNTER & OVERHEAD COILING DOOR COMPLETE.
36. REMOVE WOOD BROCHURE RACKS - SALVAGE TO OWNER.
37. REMOVE COAT RACK - SALVAGE TO OWNER.
38. REMOVE MEDICAL EQUIPMENT - SALVAGE TO OWNER.
39. REMOVE GYPSUM BOARD WALL FOR NEW WINDOW OPENING. COORDINATE WITH FLOOR PLANS.



A6 1ST FLOOR KEY PLAN
1/64"=1'-0"

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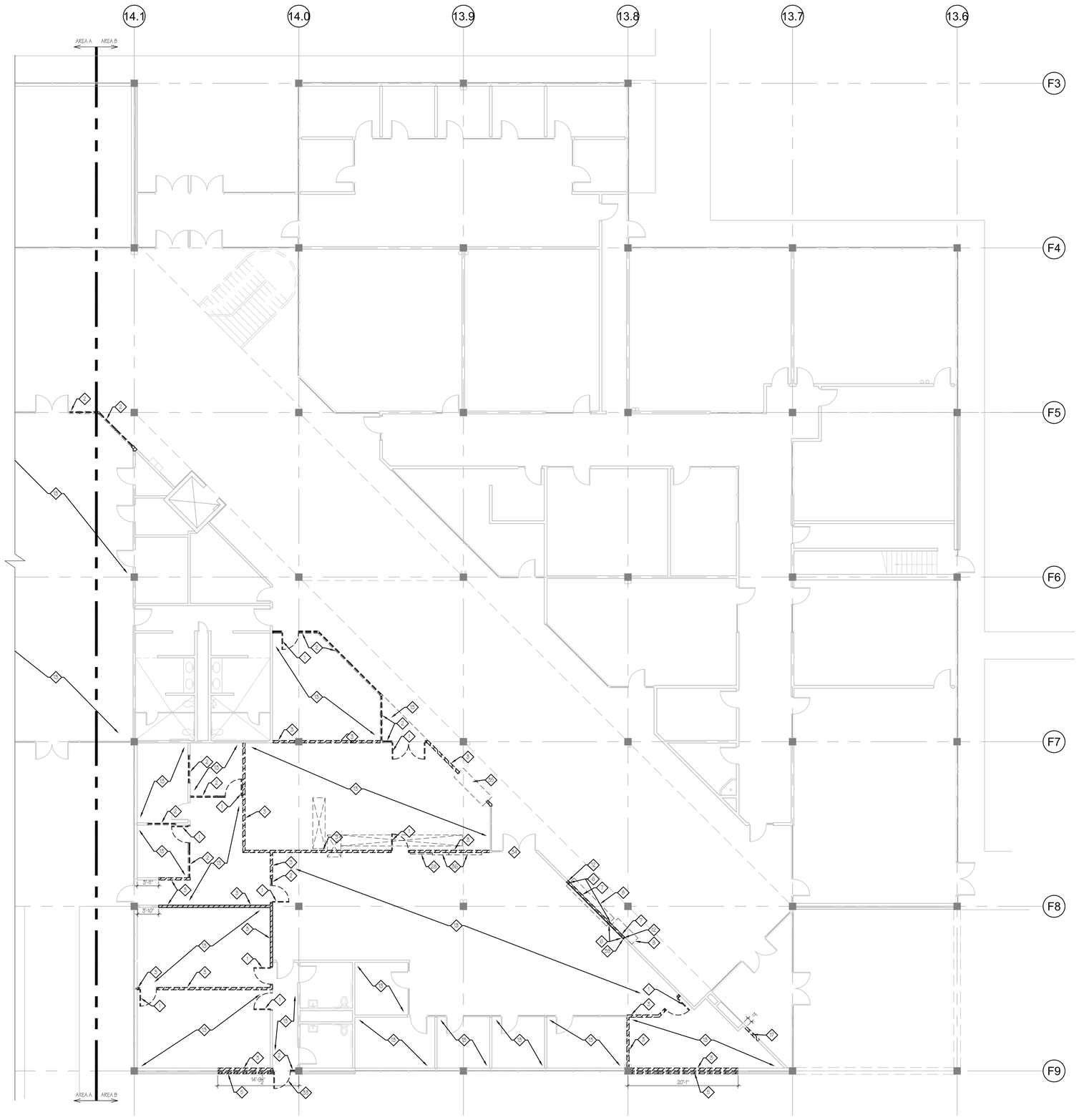
CHECKED BY:	BWS
DESIGNED BY:	BWS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

1ST FLOOR DEMOLITION PLAN AREA A

AD101.A

SHEET 6 OF 25



A3 1ST FLOOR DEMOLITION PLAN - AREA B
1/8"=1'-0"

GENERAL DEMOLITION NOTES

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8. SEE ELECTRICAL & MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION & COORDINATE.

PLAN DEMOLITION LEGEND

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- REMOVE EXISTING GYPSUM BOARD WALLS COMPLETE
- REMOVE EXISTING CMU WALLS COMPLETE. SAWCUT EXISTING DOWELS & GRIND FLUSH WITH FLOOR
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- SAWCUT & REMOVE FLOOR SLAB FOR UNDER SLAB MECHANICAL & ELECTRICAL COORDINATE EXACT LOCATIONS W/ MECH. & ELEC.
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34. REMOVE BOTTOM RODS & PATCH HOLES.
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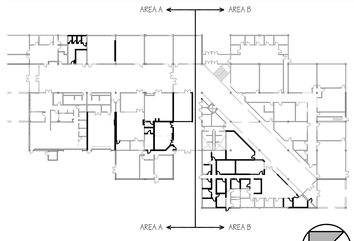

A6 1ST FLOOR KEY PLAN
1/64"=1'-0"

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UTAH VALLEY UNIVERSITY
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OREM, UTAH 84058

MARK	DATE	DESCRIPTION

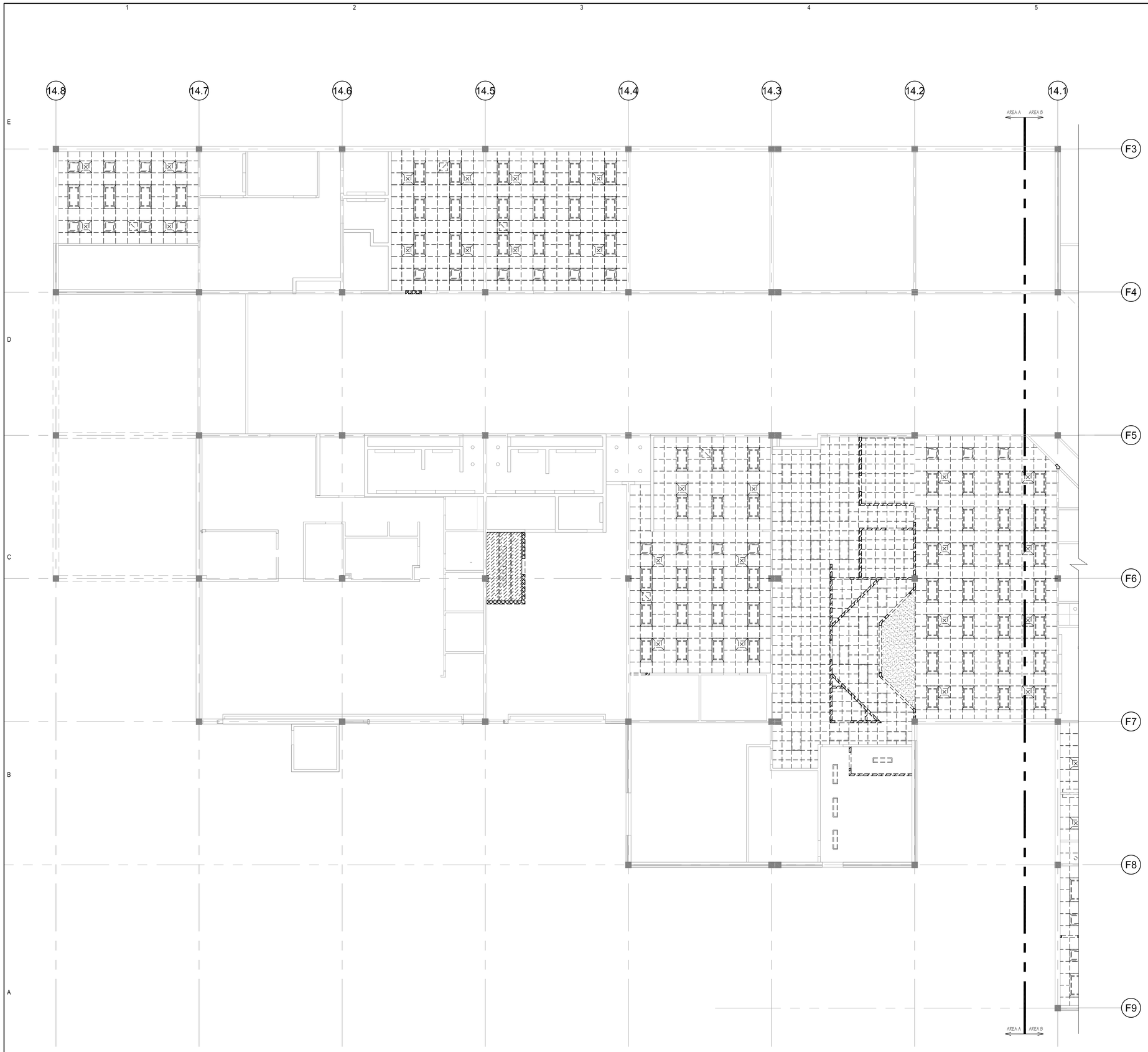
DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	BWS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

1ST FLOOR DEMOLITION PLAN AREA B

AD101.B

SHEET 7 OF 25



A3 1ST FLR. REFLECTED CEILING DEMOLITION PLAN - AREA A
1/8"=1'-0"

GENERAL NOTES

A. ALL DIMENSIONS TAKEN FROM GRID TO CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. THE CURTAIN WALL SYSTEM DIMENSION IS FROM GRID TO THE FACE OF THE SYSTEM.

B. IF A CONFLICT OCCURS BETWEEN DRAWINGS, DRAWINGS AND SPECIFICATIONS, SPECIFICATION SECTIONS AND DIVISIONS OR BETWEEN OTHER PARTS OF THESE CONSTRUCTION DOCUMENTS OR THESE DOCUMENTS AND ANY CODE REQUIREMENT, THE CONTRACTOR MAY REQUEST CLARIFICATION DURING THE BIDDING PERIOD. OTHERWISE THE MOST STRINGENT REQUIREMENTS SHALL APPLY AND BE PART OF THE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

C. ALL WORK AND MATERIALS SHALL BE IN FULL CONFORMANCE WITH THE LATEST FEDERAL, STATE AND LOCAL CODES LAWS AND ORDINANCES. INCLUDING THEIR MOST RECENT REVISIONS, AMENDMENTS AND INTERPRETATIONS.

D. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT, FOR IMMEDIATE RESOLUTION, ANY NON-CONFORMING CONDITIONS WHICH MAY BE FOUND IN EXISTING FIELD CONDITIONS.

E. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATE.

RCP DEMOLITION LEGEND

- REMOVE EXISTING 2'-6" X 2'-6" SUSPENDED ACOUSTICAL CEILING & GRID & SALVAGE WHOLE ACOUSTICAL SYSTEM TO OWNER, TYP.
- EXISTING PLYWOOD & STEEL JOISTS TO BE REMOVED, TYPICAL.
- EXISTING GYP. BOARD CEILING TO BE REMOVED, TYPICAL.
- EXISTING 2 X 4 LIGHT FIXTURE & SURROUND TO BE REMOVED & SALVAGED TO OWNER, TYPICAL.
- EXISTING 1 X 4 LIGHT FIXTURE TO BE REMOVED & SALVAGED TO OWNER, TYPICAL.
- EXISTING 1 x 4 HANGING PENDANT LIGHT FIXTURE TO BE REMOVED & SALVAGED TO OWNER, TYPICAL.
- EXISTING ½ x 4 WALL MOUNTED LIGHT FIXTURE TO BE REMOVED & SALVAGED TO OWNER, TYPICAL.
- EXISTING CAN LIGHT TO BE REMOVED & SALVAGED TO OWNER, TYPICAL.
- EXISTING MECHANICAL GRILL & SURROUND TO BE REMOVED & SALVAGED TO OWNER, TYPICAL.
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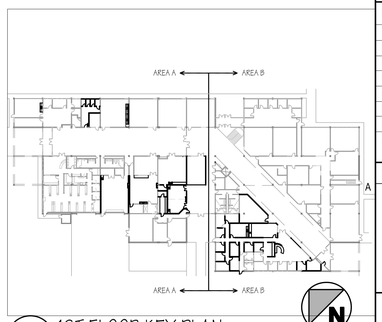

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ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

1ST FLR. REFLECTED CEILING DEMOLITION PLAN AREA A

AD111.A

SHEET 8 OF 25

A3 1ST FLR. REFLECTED CEILING DEMOLITION PLAN - AREA B
1/8"=1'-0"

GENERAL NOTES

A. ALL DIMENSIONS TAKEN FROM GRID TO CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. THE CURTAIN WALL SYSTEM DIMENSION IS FROM GRID TO THE FACE OF THE SYSTEM.

B. IF A CONFLICT OCCURS BETWEEN DRAWINGS, DRAWINGS AND SPECIFICATIONS, SPECIFICATION SECTIONS AND DIVISIONS OR BETWEEN OTHER PARTS OF THESE CONSTRUCTION DOCUMENTS OR THESE DOCUMENTS AND ANY CODE REQUIREMENT, THE CONTRACTOR MAY REQUEST CLARIFICATION DURING THE BIDDING PERIOD. OTHERWISE THE MOST STRINGENT REQUIREMENTS SHALL APPLY AND BE PART OF THE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

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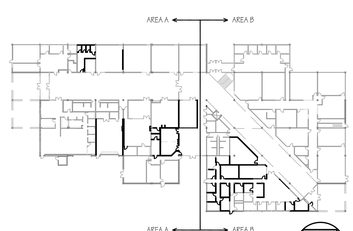

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IST FLR. REFLECTED CEILING DEMOLITION PLAN AREA B

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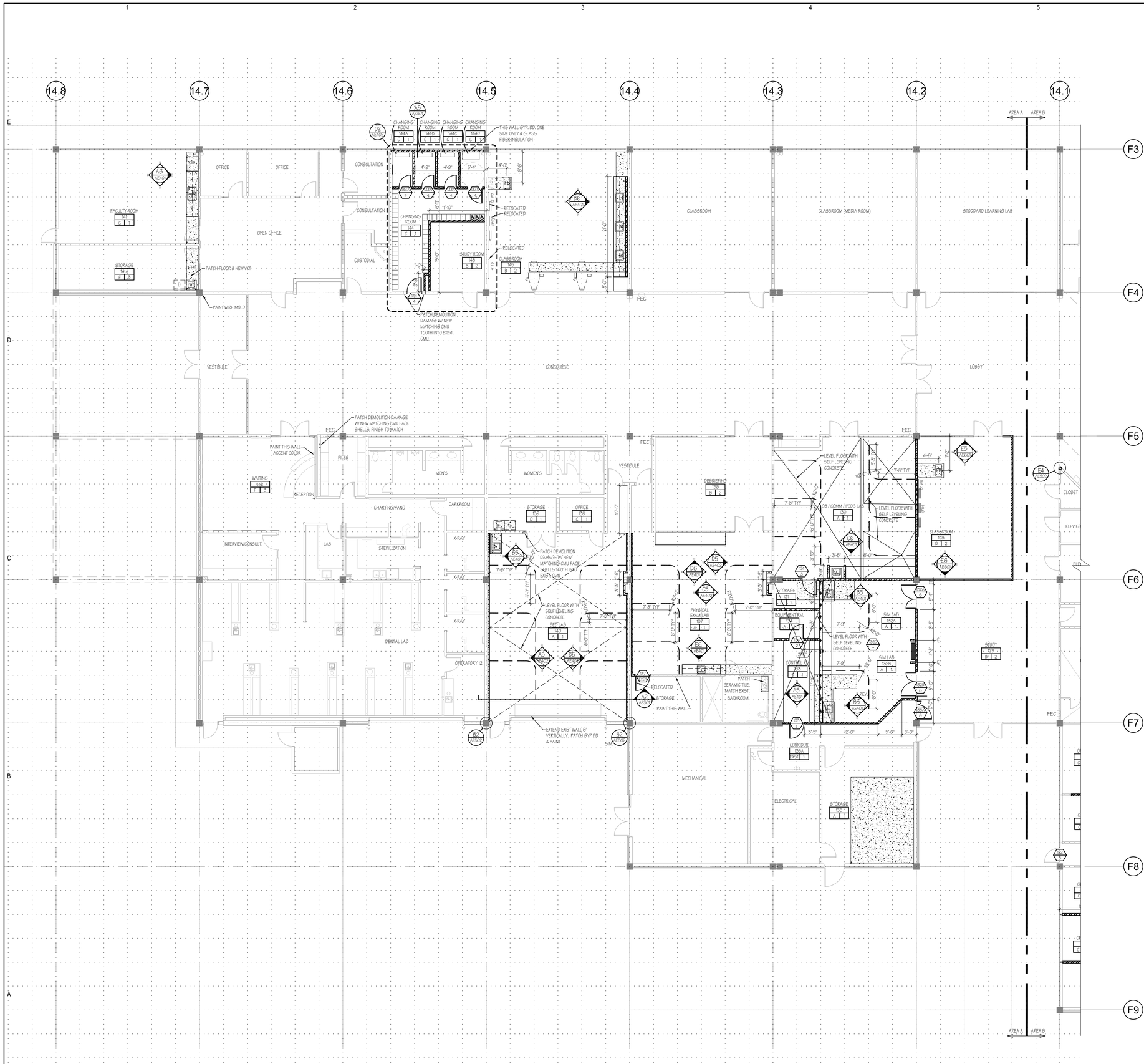
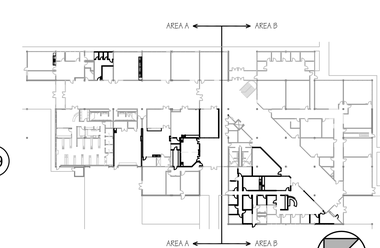
SHEET 9 OF 25



A3 1ST FLOOR PLAN - AREA A
1/8"=1'-0"



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D. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT, FOR IMMEDIATE RESOLUTION, ANY NON-CONFORMING CONDITIONS WHICH MAY BE FOUND IN EXISTING FIELD CONDITIONS.

E. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATE.

FINISH SCHEDULE

FLOOR/BASE FINISH — A | 2 — WALL FINISH; 0000 — ROOM NUMBER

FLOOR / BASE	WALL / WAINSCOT
A. VCT & 6" RUBBER BASE	1. PAINT
B. CARPET TILE & 4" OAK BASE SEE DETAIL E5/AE502	2. PAINT W/ 6" OAK CHAIR RAIL, SEE DETAIL E5/AE502
C. CARPET TILE & 4" RUBBER BASE	3. SEE ROOM FOR FINISH NOTES
D. SEALED CONCRETE & 4" RUBBER BASE	4. CERAMIC TILE, WHERE SHOWN, SEE PLANS & ELEVATIONS, MATCH EXISTING.
E. EXISTING VCT. PROVIDE NEW BASE.	
F. SEE ROOM FOR FINISH NOTES	
G. UNGLAZED CERAMIC MOSAIC TILE & CERAMIC TILE BASE. MATCH EXISTING.	

WALL SCHEDULE

A. PONY WALL W/ 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. SEE ELEVATIONS FOR HEIGHT.

B. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. EXTEND WALL 6" ABOVE CEILING & BRACE. SEE DETAIL A2/AE502.

C. 8" CMU INFILL WALL W/ SCORED VERTICAL JOINT TO MATCH EXISTING. SEE AE502 FOR CMU CONNECTION DETAILS

D. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD ROOM SIDE ONLY. EXTEND WALL 6" ABOVE CEILING & BRACE. SEE DETAIL A2/AE502.

E. 6" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. EXTEND WALL 6" ABOVE CEILING & BRACE. SEE DETAIL A2/AE502.

F. 1 HR FIRE RATED ASSEMBLY 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. SEE SHEET AE502 FOR FIRE STOPPING & ADDITIONAL INFORMATION. EXTEND TO DECK & BRACE. A2/AE502

G. 3-5/8" METAL FRAMING AT 16" O.C. W/ BATT INSULATION & 5/8" GYPSUM BOARD EACH SIDE. EXTEND TO DECK & BRACE. SEE DETAIL A2/AE502.

H. EXISTING WALL.

LEGEND

W.B. (WHITE BOARD) SEE D4 & E5/AE402.
T.B. (TACK BOARD) SEE B4 & E5/AE402.
P.S. (PROJECTION SCREEN) SEE D4/AE402.
F.E. (EXISTING FIRE EXTINGUISHER).
F.E.C. (EXISTING FIRE EXTINGUISHER CABINET).
(STAINLESS STEEL CORNER GUARD).
HARDWOOD CHAIR RAIL, SEE E5/AE502.
LOCKERS, SEE SHEET AE402.
W (WASHER) N.I.C.
D (DRYER) N.I.C.
(DENTAL CHAIR) N.I.C.
5' 5' FLOOR PLAN GRID
PROVIDE NEW CONCRETE INFILL. THICKNESS TO MATCH EXISTING
FB FLOOR BOX, COORDINATE FINAL LOCATION W/ OWNER & ARCHITECT

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UTAH VALLEY UNIVERSITY WEST CAMPUS INTERIOR IMPROVEMENTS

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987 SOUTH GENEVA ROAD
OREM, UTAH 84058

MARK	DATE	DESCRIPTION

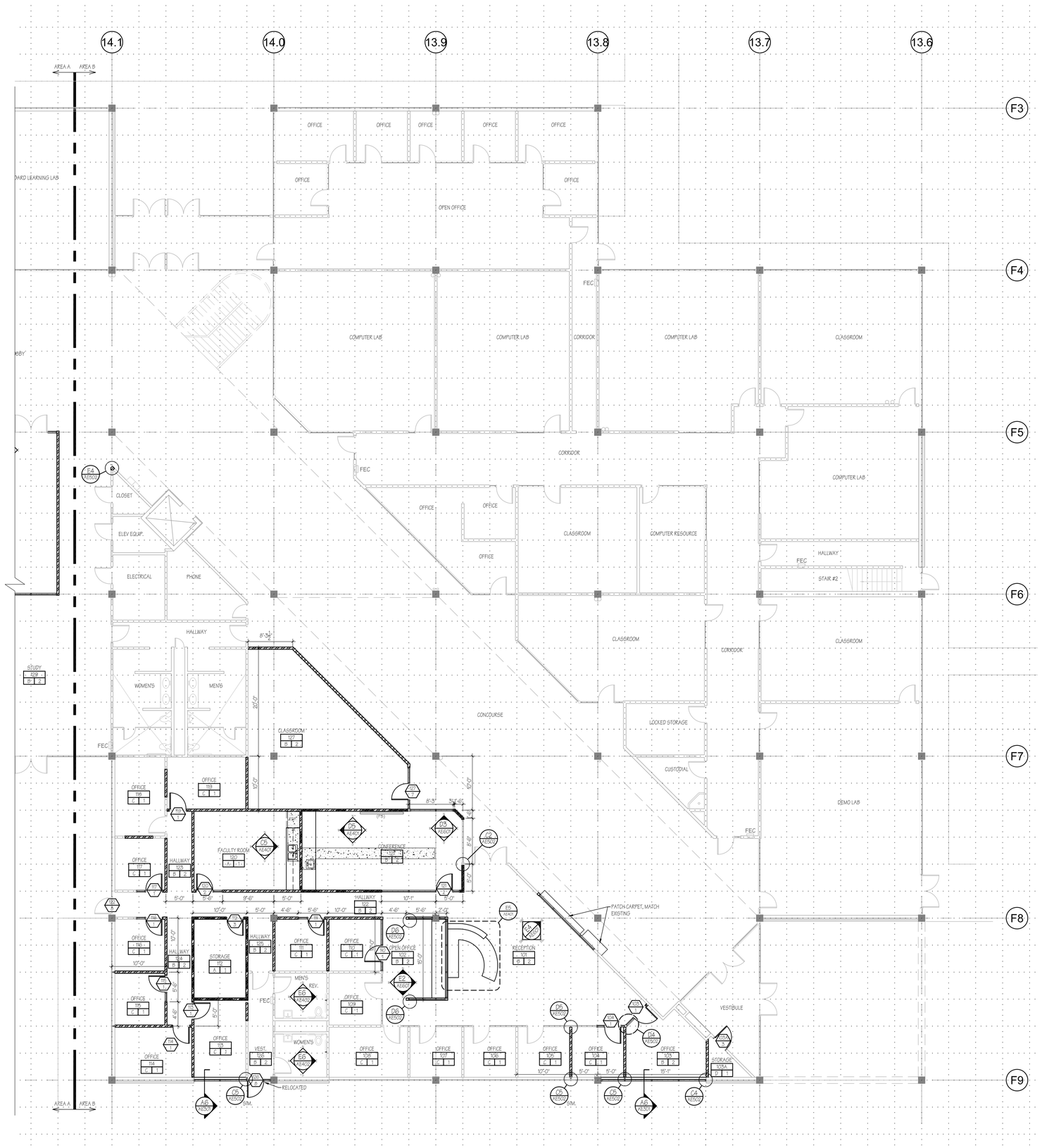
DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	BWS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

1ST FLOOR PLAN AREA A

AE101.A

SHEET 10 OF 25



A3 1ST FLOOR PLAN - AREA B
1/8"=1'-0"

GENERAL NOTES

A. ALL DIMENSIONS TAKEN FROM GRID TO CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. THE CURTAIN WALL SYSTEM DIMENSION IS FROM GRID TO THE FACE OF THE SYSTEM.

B. IF A CONFLICT OCCURS BETWEEN DRAWINGS, DRAWINGS AND SPECIFICATIONS, SPECIFICATION SECTIONS AND DIVISIONS OR BETWEEN OTHER PARTS OF THESE CONSTRUCTION DOCUMENTS OR THESE DOCUMENTS AND ANY CODE REQUIREMENT, THE CONTRACTOR MAY REQUEST CLARIFICATION DURING THE BIDDING PERIOD. OTHERWISE THE MOST STRINGENT REQUIREMENTS SHALL APPLY AND BE PART OF THE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

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D. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT, FOR IMMEDIATE RESOLUTION, ANY NON-CONFORMING CONDITIONS WHICH MAY BE FOUND IN EXISTING FIELD CONDITIONS.

E. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATE.

FINISH SCHEDULE

FLOOR/BASE FINISH — 0000 (ROOM NUMBER) / A 2 (WALL/FINISH)

FLOOR / BASE	WALL / WAINSCOT
A. VCT & 6" RUBBER BASE	1. PAINT
B. CARPET TILE & 4" OAK BASE SEE DETAIL E5/AE502	2. PAINT W/ 6" OAK CHAIR RAIL, SEE DETAIL E5/AE502
C. CARPET TILE & 4" RUBBER BASE	3. SEE ROOM FOR FINISH NOTES
D. SEALED CONCRETE & 4" RUBBER BASE	4. CERAMIC TILE, WHERE SHOWN, SEE PLANS & ELEVATIONS, MATCH EXISTING.
E. EXISTING VCT. PROVIDE NEW BASE.	
F. SEE ROOM FOR FINISH NOTES	
G. UNGLAZED CERAMIC MOSAIC TILE & CERAMIC TILE BASE. MATCH EXISTING.	

WALL SCHEDULE

A. PONY WALL W/ 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. SEE ELEVATIONS FOR HEIGHT.

B. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. EXTEND WALL 6" ABOVE CEILING & BRACE. SEE DETAIL A2/AE502.

C. 8" CMU INFILL WALL W/ SCORED VERTICAL JOINT TO MATCH EXISTING. SEE AE502 FOR CMU CONNECTION DETAILS

D. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD ROOM SIDE ONLY. EXTEND WALL 6" ABOVE CEILING & BRACE. SEE DETAIL A2/AE502.

E. 6" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. EXTEND WALL 6" ABOVE CEILING & BRACE. SEE DETAIL A2/AE502.

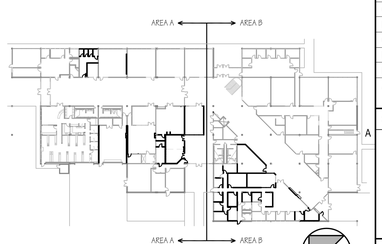
F. 1 HR FIRE RATED ASSEMBLY 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. SEE SHEET AE502 FOR FIRE STOPPING & ADDITIONAL INFORMATION. EXTEND TO DECK & BRACE. A2/AE502

G. 3-5/8" METAL FRAMING AT 16" O.C. W/ BATT INSULATION & 5/8" GYPSUM BOARD EACH SIDE. EXTEND TO DECK & BRACE. SEE DETAIL A2/AE502.

H. EXISTING WALL.

LEGEND

W.B.	(WHITE BOARD) SEE D4 & E5/AE402.
T.B.	(TACK BOARD) SEE B4 & E5/AE402.
P.S.	(PROJECTION SCREEN) SEE D4/AE402.
F.E.	(EXISTING FIRE EXTINGUISHER).
F.E.C.	(EXISTING FIRE EXTINGUISHER CABINET).
	(STAINLESS STEEL CORNER GUARD).
	HARDWOOD CHAIR RAIL, SEE E5/AE502.
	LOCKERS, SEE SHEET AE402.
W	(WASHER) N.I.C.
D	(DRYER) N.I.C.
	(DENTAL CHAIR) N.I.C.
5'	FLOOR PLAN GRID
FB	PROVIDE NEW CONCRETE INFILL. THICKNESS TO MATCH EXISTING
FB	FLOOR BOX, COORDINATE FINAL LOCATION W/ OWNER & ARCHITECT



A6 1ST FLOOR KEY PLAN
1/64"=1'-0"

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SHEET TITLE

1ST FLOOR PLAN AREA B

AE101.B

SHEET 11 OF 25

ALTERNATE #1 DEMOLITION KEYED NOTES

1. REMOVE EXISTING DOOR SYSTEM COMPLETE - SALVAGE HARDWARE TO OWNER.
2. REMOVE EXISTING GLAZING SYSTEM COMPLETE - COMPONENTS MAY BE SALVAGED TO OWNER.
3. REMOVE EXISTING GYPSUM BOARD WALLS COMPLETE.
4. REMOVE EXISTING HAND RAILING COMPLETE.
5. REMOVE EXISTING PAVERS & SETTING BED COMPLETE.
6. REMOVE WINDOW BLINDS - SALVAGE TO OWNER.
7. REMOVE CERAMIC TILE. SAW CUT & REMOVE CONCRETE FLOOR SLAB & DRAIN COMPLETE.
8. REMOVE EXISTING PLUMBING FIXTURES - SALVAGE FOR REINSTALLATION. SEE SHEET AE102 ALT #1.
9. REMOVE EXISTING GRAB BARS - SALVAGE FOR REINSTALLATION. SEE SHEET AE102 ALT #1.
10. REMOVE EXISTING RESTROOM PARTITIONS - SALVAGE FOR REINSTALLATION. SEE SHEET AE102 ALT #1.
11. REMOVE EXISTING CARPET & BASE COMPLETE.
12. REMOVE DUPLEX OUTLET.

ALTERNATE #1 PLAN DEMOLITION LEGEND

- EXISTING DOOR & H.M. FRAME TO BE DEMOLISHED, TYPICAL
- REMOVE EXISTING GYPSUM BOARD WALLS COMPLETE
- SAWCUT & REMOVE FLOOR SLAB FOR UNDER SLAB MECHANICAL & ELECTRICAL COORDINATE EXACT LOCATIONS W/ MECH. & ELEC.

ALTERNATE #1 RCP DEMOLITION LEGEND

- REMOVE EXISTING 2'-6" X 2'-6" SUSPENDED ACOUSTICAL CEILING & GRID & SALVAGE WHOLE ACOUSTICAL SYSTEM TO OWNER, TYP.
- REMOVE EXISTING 2'-6" X 2'-6" SUSPENDED ACOUSTICAL CEILING, LIGHTS, DIFFUSERS, AS REQUIRED TO FACILITATE NEW STRUCTURAL WORK ON BEAMS ABOVE. REINSTALL ENTIRE SYSTEM COMPLETE. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
- REMOVE SUSPENDED 5/8" GYPSUM BOARD CEILING AS REQUIRED FOR (2) 2' X 2' CEILING ACCESS DOORS. COORDINATE W/ MECHANICAL FOR ADDITIONAL INFORMATION
- EXISTING 2' X 4 LIGHT FIXTURE & SURROUND TO BE REMOVED & SALVAGED TO OWNER, TYPICAL.
- EXISTING 2' X 4 WALL MOUNTED LIGHT FIXTURE TO BE REMOVED & SALVAGED TO OWNER, TYPICAL.
- EXISTING CAN LIGHT TO BE REMOVED & SALVAGED TO OWNER, TYPICAL.
- EXISTING MECHANICAL GRILL & SURROUND TO BE REMOVED & SALVAGED TO OWNER, TYPICAL.
- EXISTING MECHANICAL GRILL TO BE REMOVED & SALVAGED TO OWNER, TYPICAL.

GENERAL DEMOLITION NOTES

1. ALL DIMENSIONS & EXISTING CONDITIONS IN AREAS OF WORK ARE TO BE FIELD VERIFIED PRIOR TO COMMENCING WORK - ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT OR ENGINEER OF RECORD PRIOR TO COMMENCING WORK.
2. PROTECT ALL AREAS & SURFACES ADJACENT TO DEMOLITION & CONSTRUCTION. PATCH & REPAIR ANY DAMAGE OR HOLES IN WALLS, CEILINGS & FLOORS RESULTING FROM THE DEMOLITION OF EXISTING ITEMS OR THE CONSTRUCTION OF NEW ITEMS.
3. NOTED AREAS INDICATED THE GENERAL EXTENT OF DEMOLITION. THE CONTRACTOR'S CHOICE OF MEANS & METHODS OF CONSTRUCTION MAY REQUIRE MORE OR LESS DEMOLITION. THE MEANS & METHODS OF DEMOLITION & CONSTRUCTION MUST BE ACCOUNTED FOR IN THE CONTRACTORS BID. ANY DEMOLITION & REPAIR TO ADJACENT SURFACES BEYOND THE AREAS INDICATED IN THE CONTRACT DOCUMENTS WILL NOT BE COMPENSATED FOR AFTER THE BID OPENING.
4. PRIOR TO THE START OF DEMOLITION, THE CONTRACTOR IS TO MEET WITH THE OWNER & ARCHITECT TO IDENTIFY ALL ITEMS TO BE DEMOLISHED & REMOVED FROM SITE. ITEMS TO BE REMOVED & RETURNED TO THE OWNER, OR ITEMS TO BE REMOVED & REINSTALLED.
5. 72-HOUR NOTICE IS REQUIRED FOR ANY UTILITY SHUT DOWN.
6. ANY REPAINTING OF SURFACES REQUIRED DUE TO DAMAGE TO FINISHES DURING DEMOLITION AND CONSTRUCTION MUST BE COMPLETE FROM CORNER TO CORNER.
7. PRIOR TO BIDDING, THE CONTRACTOR IS TO SURVEY THE EXISTING WALL CONDITIONS. ALL EXISTING NAILS, SCREWS, ABANDONED FASTENERS & HARDWARE IN THE WALLS ARE TO BE REMOVED & THE HOLES PATCHED.
8. SEE ELECTRICAL & MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION & COORDINATE.

ALTERNATE #1 LEGEND

W.B.	(WHITE BOARD) SEE D4 & E5/AE402.
T.B.	(TACK BOARD) SEE B4 & E5/AE402.
P.S.	(PROJECTION SCREEN) SEE D4/AE402.
R.D.	(ROOF DRAIN) SEE A5/AE501.
O.R.D.	(OVERFLOW ROOF DRAIN) SEE A5/AE501.
F.E.C.	(EXISTING FIRE EXTINGUISHER CABINET).
	(STAINLESS STEEL CORNER GUARD).
	HARDWOOD CHAIR RAIL, SEE E5/AE502.
	FLOOR PLAN GRID
	PROVIDE NEW CONCRETE INFILL. THICKNESS TO MATCH EXISTING
PT	POKE THROUGH, COORDINATE FINAL LOCATION W/ OWNER & ARCHITECT
	RELOCATED WINDOW BLINDS

GENERAL NOTES

A. ALL DIMENSIONS TAKEN FROM GRID TO CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. THE CURTAIN WALL SYSTEM DIMENSION IS FROM GRID TO THE FACE OF THE SYSTEM.

B. IF A CONFLICT OCCURS BETWEEN DRAWINGS, DRAWINGS AND SPECIFICATIONS, SPECIFICATION SECTIONS AND DIVISIONS OR BETWEEN OTHER PARTS OF THESE CONSTRUCTION DOCUMENTS OR THESE DOCUMENTS AND ANY CODE REQUIREMENT, THE CONTRACTOR MAY REQUEST CLARIFICATION DURING THE BIDDING PERIOD. OTHERWISE THE MOST STRINGENT REQUIREMENTS SHALL APPLY AND BE PART OF THE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

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D. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT, FOR IMMEDIATE RESOLUTION, ANY NON-CONFORMING CONDITIONS WHICH MAY BE FOUND IN EXISTING FIELD CONDITIONS.

E. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATE.

FINISH SCHEDULE

FLOOR/BASE FINISH — CODE (A | B) — ROOM NUMBER / WALL/FINISH

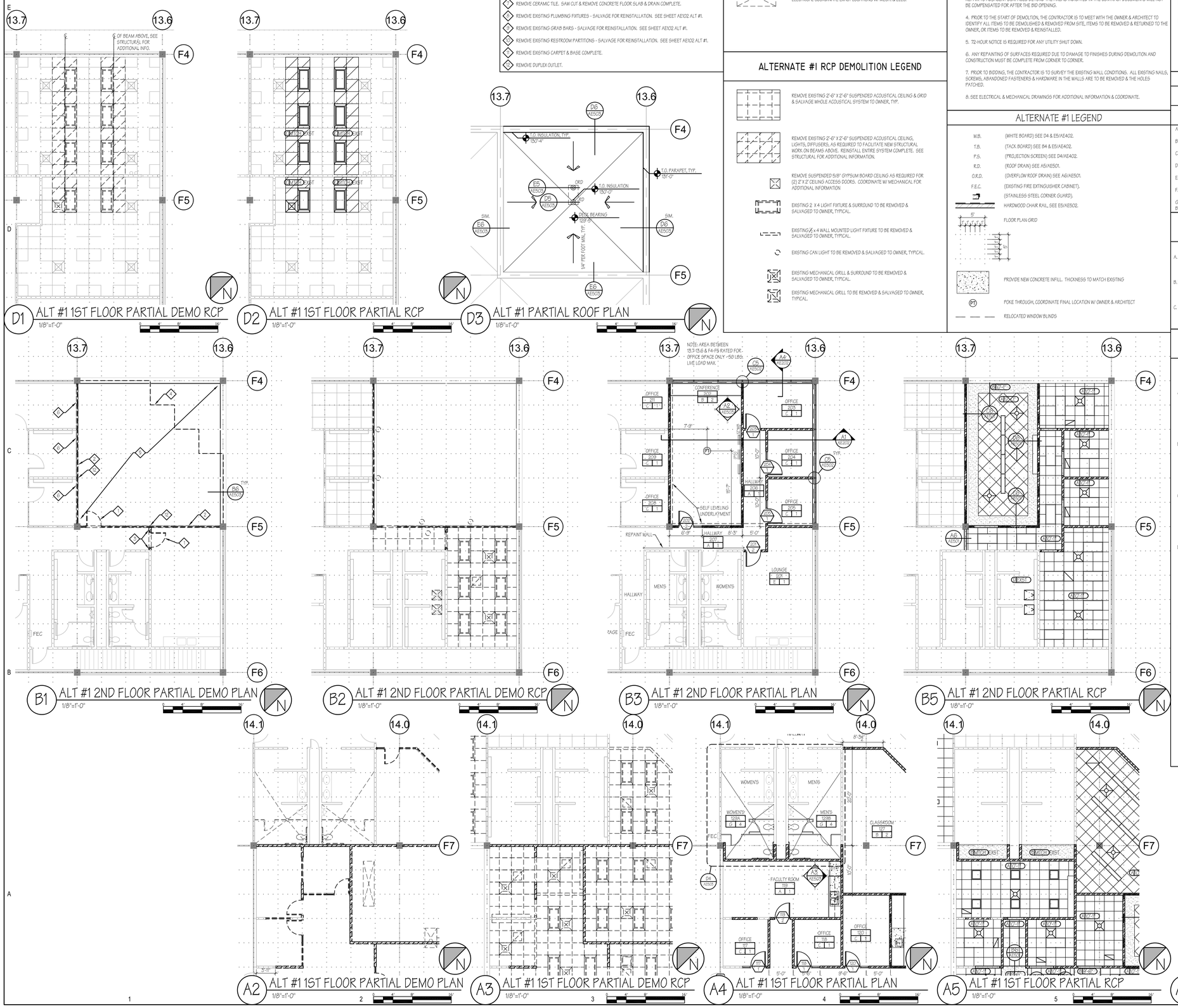
FLOOR / BASE	WALL / WAINSCOT
A. VCT & 6" RUBBER BASE	1. PAINT
B. CARPET TILE & 4" OAK BASE SEE DETAIL E5/AE502	2. PAINT W/ 6" OAK CHAIR RAIL, SEE DETAIL E5/AE502
C. CARPET TILE & 4" RUBBER BASE	3. SEE ROOM FOR FINISH NOTES
D. SEALED CONCRETE & 4" RUBBER BASE	4. CERAMIC TILE, WHERE SHOWN, SEE PLANS & ELEVATIONS, MATCH EXISTING.
E. EXISTING VCT. PROVIDE NEW BASE.	
F. SEE ROOM FOR FINISH NOTES	
G. UNGLAZED CERAMIC MOSAIC TILE & CERAMIC TILE BASE. MATCH EXISTING.	

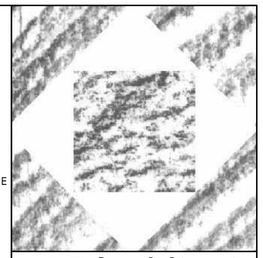
ALTERNATE #1 WALL SCHEDULE

A.		3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. EXTEND WALL 6" ABOVE CEILING & BRACE. SEE DETAIL A2/AE502.
B.		3-5/8" METAL FRAMING AT 16" O.C. W/ BATT INSULATION & 5/8" GYPSUM BOARD EACH SIDE. EXTEND TO DECK & BRACE. SEE DETAIL A2/AE502.
C.		EXISTING WALL.

ALTERNATE #1 CEILING PLAN LEGEND

A.		NEW SUSPENDED 2X2 LAY-IN CEILING PANELS & GRID, TYPICAL. SEE DETAILS B4-B6, C4-C5, D4-D5, E5-E6/AE501.
B.		NEW GYP BOARD CEILING, TYPICAL
C.		REINSTALLED CEILING SYSTEM, LIGHTS & GRILLS.
D.		EXISTING SUSPENDED GYP BD CEILING - PAINT - MATCH EXISTING
		INSTALL NEW 2X4 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS, TYPICAL
		INSTALL NEW 2X2 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS, TYPICAL
		INSTALL NEW PENDANT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS, TYPICAL
		NEW MECHANICAL GRILLE, SEE MECHANICAL DRAWINGS FOR FURTHER INSTRUCTIONS, TYPICAL
		NEW MECHANICAL GRILLE, SEE MECHANICAL DRAWINGS FOR FURTHER INSTRUCTIONS, TYPICAL
		NEW MECHANICAL GRILLE, SEE MECHANICAL DRAWINGS FOR FURTHER INSTRUCTIONS, TYPICAL
		REINSTALL EXISTING LIGHT FIXTURE, SEE DEMO REFLECTED CEILING PLANS
		REINSTALL EXISTING MECHANICAL GRILLE, SEE DEMO REFLECTED CEILING PLANS
		NEW 2' X 2' CEILING ACCESS DOOR.





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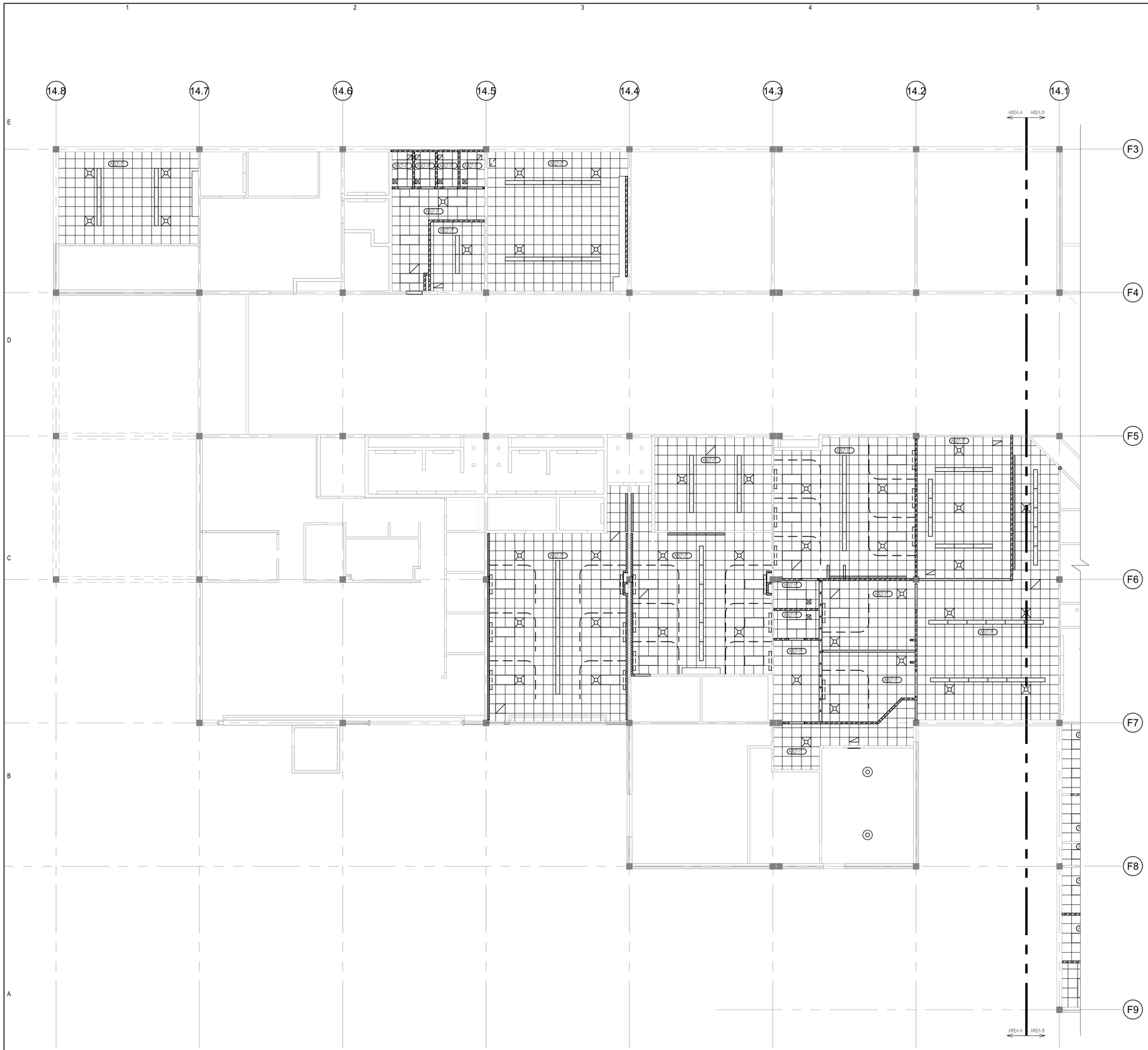
SHEET TITLE

ALT #1 PARTIAL 1ST & 2ND FLOOR PLANS & ROOF PLAN

AE102 ALT #1

SHEET 12 OF 25



A3 1ST FLOOR REFLECTED CEILING PLAN - AREA A
1/8"=1'-0"

GENERAL NOTES

A. ALL DIMENSIONS TAKEN FROM GRID TO CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. THE CURTAIN WALL SYSTEM DIMENSION IS FROM GRID TO THE FACE OF THE SYSTEM.

B. IF A CONFLICT OCCURS BETWEEN DRAWINGS, DRAWINGS AND SPECIFICATIONS, SPECIFICATION SECTIONS AND DIVISIONS OR BETWEEN OTHER PARTS OF THESE CONSTRUCTION DOCUMENTS OR THESE DOCUMENTS AND ANY CODE REQUIREMENT, THE CONTRACTOR MAY REQUEST CLARIFICATION DURING THE BIDDING PERIOD. OTHERWISE THE MOST STRINGENT REQUIREMENTS SHALL APPLY AND BE PART OF THE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

C. ALL WORK AND MATERIALS SHALL BE IN FULL CONFORMANCE WITH THE LATEST FEDERAL, STATE AND LOCAL CODES LAWS AND ORDINANCES. INCLUDING THEIR MOST RECENT REVISIONS, AMENDMENTS AND INTERPRETATIONS.

D. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT, FOR IMMEDIATE RESOLUTION, ANY NON-CONFORMING CONDITIONS WHICH MAY BE FOUND IN EXISTING FIELD CONDITIONS.

E. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATE.

WALL SCHEDULE

A. PONY WALL W/ 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. SEE ELEVATIONS FOR HEIGHT.

B. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. EXTEND WALL 6" ABOVE CEILING & BRACE. SEE DETAIL A2/AE502.

C. 8" CMU INFILL WALL W/ SCORED VERTICAL JOINT TO MATCH EXISTING. SEE AE502 FOR CMU CONNECTION DETAILS

D. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD ROOM SIDE ONLY. EXTEND WALL 6" ABOVE CEILING & BRACE. SEE DETAIL A2/AE502.

E. 6" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. EXTEND WALL 6" ABOVE CEILING & BRACE. SEE DETAIL A2/AE502.

F. 1 HR FIRE RATED ASSEMBLY 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. SEE SHEET AE502 FOR FIRE STOPPING & ADDITIONAL INFORMATION. EXTEND TO DECK & BRACE. A2/AE502

G. 3-5/8" METAL FRAMING AT 16" O.C. W/ BATT INSULATION & 5/8" GYPSUM BOARD EACH SIDE. EXTEND TO DECK & BRACE. SEE DETAIL A2/AE502.

H. EXISTING WALL.

CEILING PLAN LEGEND

A. NEW SUSPENDED 2X2 LAY-IN CEILING PANELS & GRID, TYPICAL. SEE DETAILS B4-B5, C4-C5, D4-D5, E5-E6/AE501.

B. NEW GYP BOARD CEILING, TYPICAL

INSTALL NEW 2X4 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS, TYPICAL

INSTALL NEW 2X2 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS, TYPICAL

INSTALL NEW PENDANT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS, TYPICAL

INSTALL NEW WALL MOUNTED LINEAR FIXTURE, SEE ELECTRICAL DRAWINGS, TYPICAL

INSTALL NEW UNDER CABINET LIGHT, SEE ELECTRICAL DRAWINGS, TYPICAL

INSTALL NEW SAFETY LIGHT, SEE ELECTRICAL DRAWINGS, TYPICAL

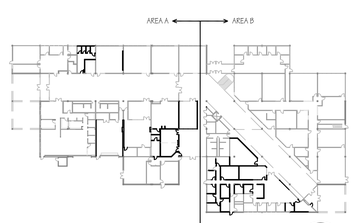
NEW MECHANICAL GRILLE, SEE MECHANICAL DRAWINGS FOR FURTHER INSTRUCTIONS, TYPICAL

NEW MECHANICAL GRILLE, SEE MECHANICAL DRAWINGS FOR FURTHER INSTRUCTIONS, TYPICAL

NEW MECHANICAL GRILLE, SEE MECHANICAL DRAWINGS FOR FURTHER INSTRUCTIONS, TYPICAL

NEW EXHAUST FAN, SEE MECHANICAL DRAWINGS FOR FURTHER INSTRUCTIONS, TYPICAL

NYLON CURTAIN & OVERHEAD SURFACE MOUNTED ALUMINUM CURTAIN TRACK. SEE SPEC FOR ADDITIONAL INFORMATION, TYPICAL



A6 1ST FLOOR KEY PLAN
1/64"=1'-0"

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UTAH VALLEY UNIVERSITY WEST CAMPUS INTERIOR IMPROVEMENTS

UTAH VALLEY UNIVERSITY
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OREM, UTAH 84058

MARK	DATE	DESCRIPTION

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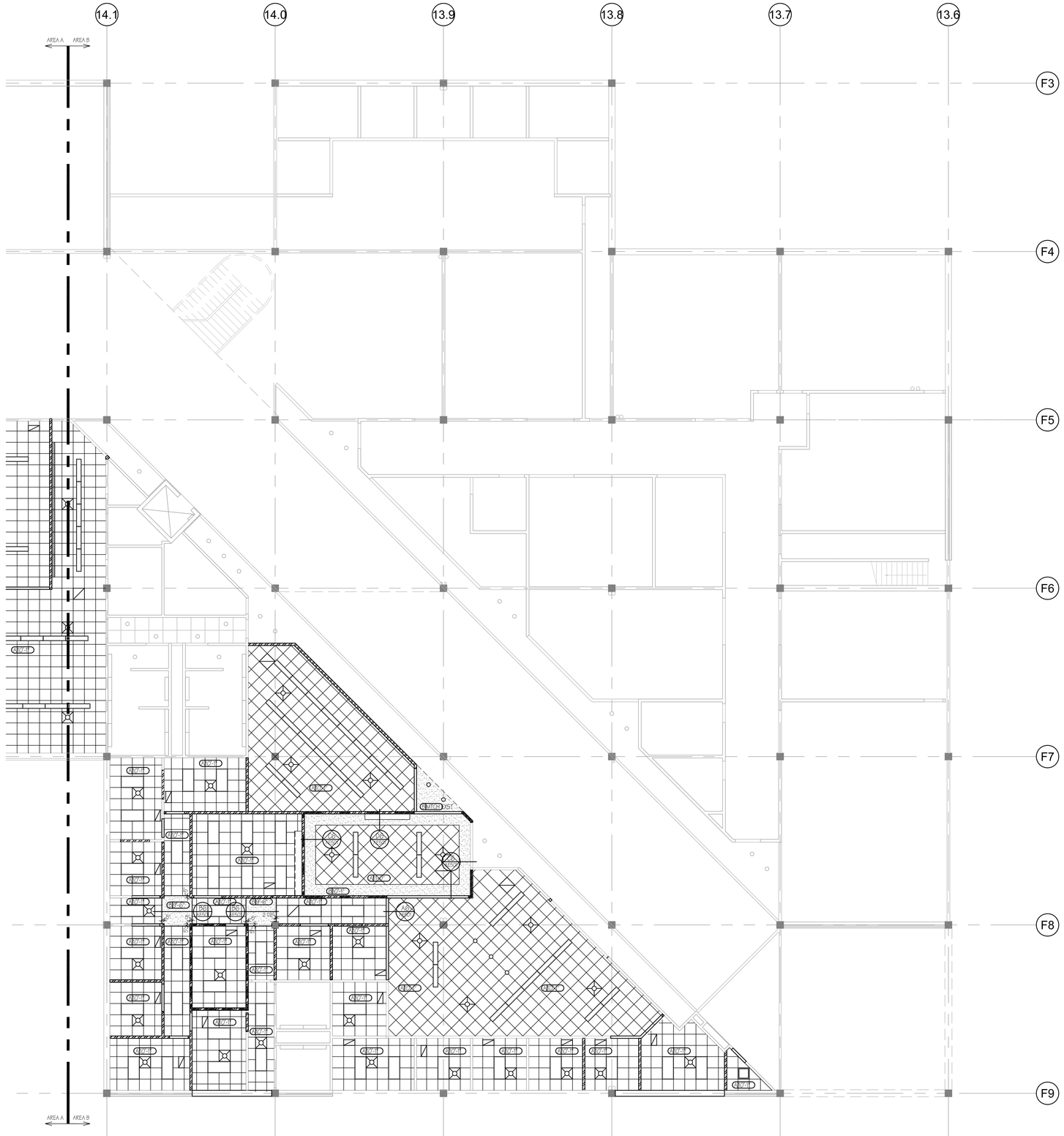
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	BWS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

1ST FLOOR REFLECTED CEILING PLAN AREA A

AE111.A

SHEET 13 OF 25



A3 1ST FLOOR REFLECTED CEILING PLAN - AREA B
1/8"=1'-0"

GENERAL NOTES

A. ALL DIMENSIONS TAKEN FROM GRID TO CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. THE CURTAIN WALL SYSTEM DIMENSION IS FROM GRID TO THE FACE OF THE SYSTEM.

B. IF A CONFLICT OCCURS BETWEEN DRAWINGS, DRAWINGS AND SPECIFICATIONS, SPECIFICATION SECTIONS AND DIVISIONS OR BETWEEN OTHER PARTS OF THESE CONSTRUCTION DOCUMENTS OR THESE DOCUMENTS AND ANY CODE REQUIREMENT, THE CONTRACTOR MAY REQUEST CLARIFICATION DURING THE BIDDING PERIOD. OTHERWISE THE MOST STRINGENT REQUIREMENTS SHALL APPLY AND BE PART OF THE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

C. ALL WORK AND MATERIALS SHALL BE IN FULL CONFORMANCE WITH THE LATEST FEDERAL, STATE AND LOCAL CODES LAWS AND ORDINANCES. INCLUDING THEIR MOST RECENT REVISIONS, AMENDMENTS AND INTERPRETATIONS.

D. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT, FOR IMMEDIATE RESOLUTION, ANY NON-CONFORMING CONDITIONS WHICH MAY BE FOUND IN EXISTING FIELD CONDITIONS.

E. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATE.

WALL SCHEDULE

A. PONY WALL W/ 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. SEE ELEVATIONS FOR HEIGHT.

B. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. EXTEND WALL 6" ABOVE CEILING & BRACE. SEE DETAIL A2/AE502.

C. 8" CMU INFILL WALL W/ SCORED VERTICAL JOINT TO MATCH EXISTING. SEE AE502 FOR CMU CONNECTION DETAILS

D. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD ROOM SIDE ONLY. EXTEND WALL 6" ABOVE CEILING & BRACE. SEE DETAIL A2/AE502.

E. 6" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. EXTEND WALL 6" ABOVE CEILING & BRACE. SEE DETAIL A2/AE502.

F. 1 HR FIRE RATED ASSEMBLY 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. SEE SHEET AE502 FOR FIRE STOPPING & ADDITIONAL INFORMATION. EXTEND TO DECK & BRACE. A2/AE502

G. 3-5/8" METAL FRAMING AT 16" O.C. W/ BATT INSULATION & 5/8" GYPSUM BOARD EACH SIDE. EXTEND TO DECK & BRACE. SEE DETAIL A2/AE502.

H. EXISTING WALL.

CEILING PLAN LEGEND

A. NEW SUSPENDED 2X2 LAY-IN CEILING PANELS & GRID, TYPICAL. SEE DETAILS B4-B5, C4-C5, D4-D5, E5-E6/AE501.

B. NEW GYP BOARD CEILING, TYPICAL

INSTALL NEW 2X4 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS, TYPICAL

INSTALL NEW 2X2 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS, TYPICAL

INSTALL NEW PENDANT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS, TYPICAL

INSTALL NEW WALL MOUNTED LINEAR FIXTURE, SEE ELECTRICAL DRAWINGS, TYPICAL

INSTALL NEW UNDER CABINET LIGHT, SEE ELECTRICAL DRAWINGS, TYPICAL

INSTALL NEW SAFETY LIGHT, SEE ELECTRICAL DRAWINGS, TYPICAL

NEW MECHANICAL GRILLE, SEE MECHANICAL DRAWINGS FOR FURTHER INSTRUCTIONS, TYPICAL

NEW MECHANICAL GRILLE, SEE MECHANICAL DRAWINGS FOR FURTHER INSTRUCTIONS, TYPICAL

NEW MECHANICAL GRILLE, SEE MECHANICAL DRAWINGS FOR FURTHER INSTRUCTIONS, TYPICAL

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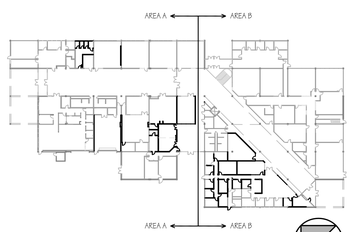
NYLON CURTAIN & OVERHEAD SURFACE MOUNTED ALUMINUM CURTAIN TRACK. SEE SPEC FOR ADDITIONAL INFORMATION, TYPICAL



A6 1ST FLOOR KEY PLAN
1/64"=1'-0"

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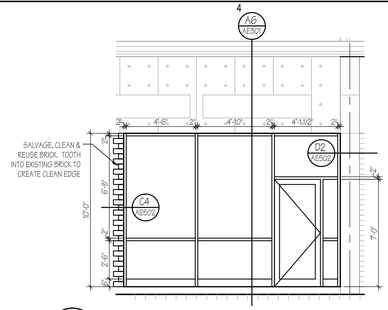
SHEET TITLE

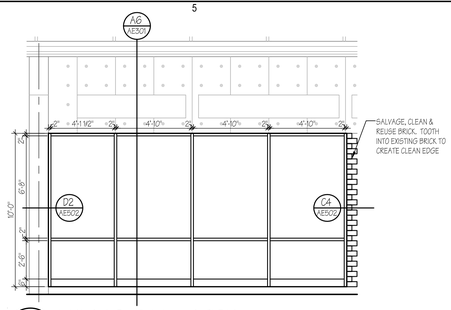
1ST FLOOR REFLECTED CEILING PLAN AREA B

AE111.B

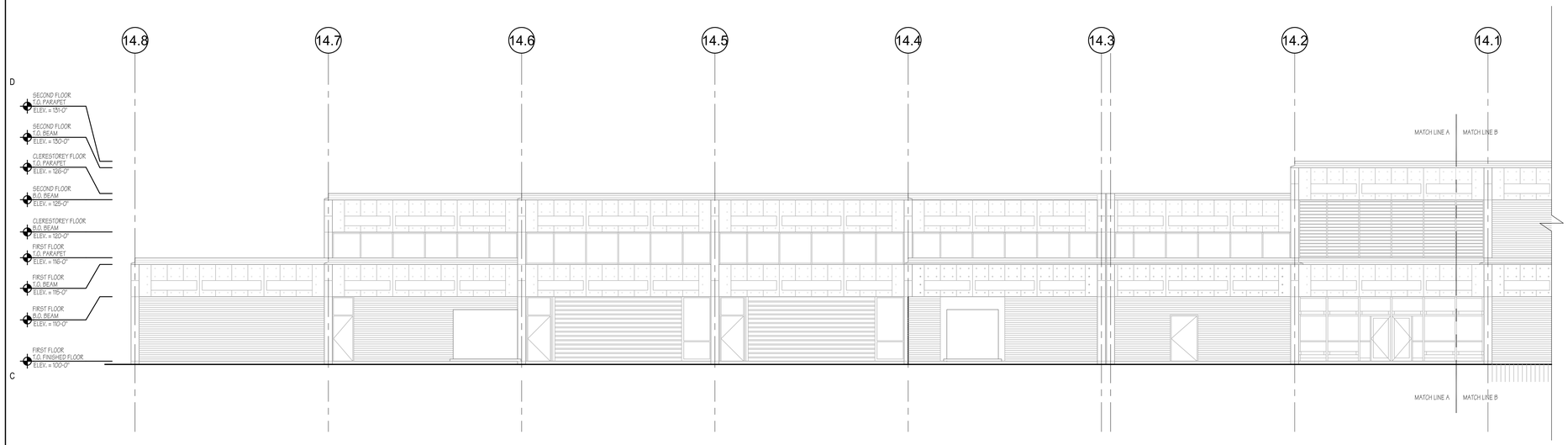
SHEET 14 OF 25



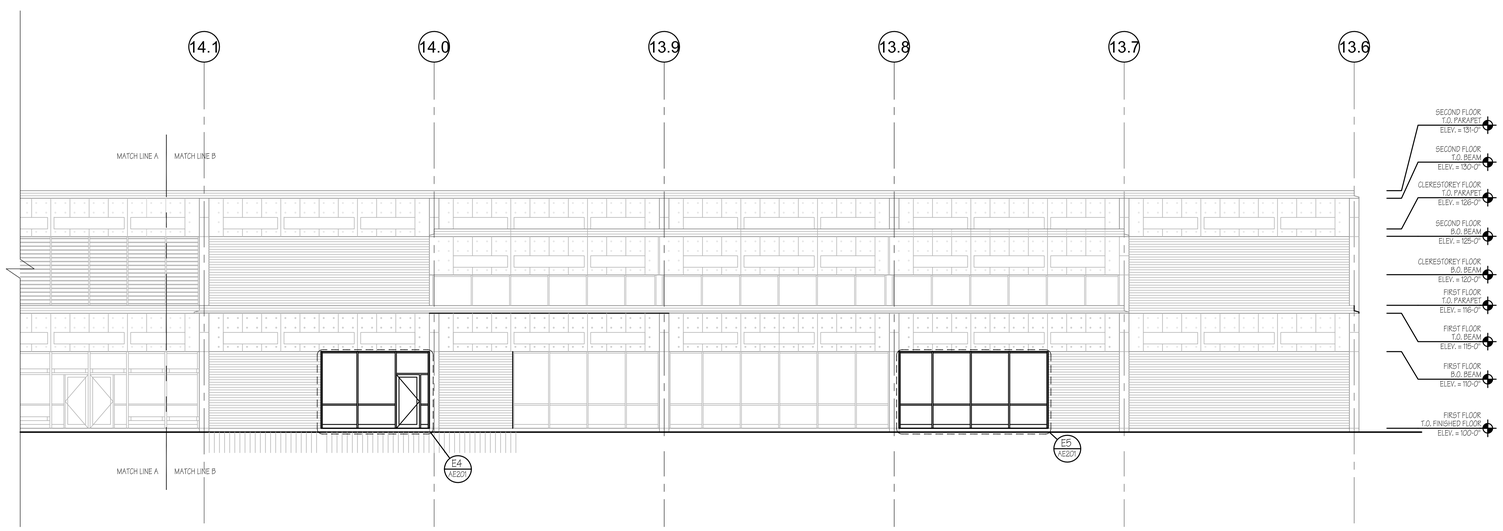
E4 ENLARGED ELEVATION
1/4"=1'-0"



E5 ENLARGED ELEVATION
1/4"=1'-0"



C3 SOUTH ELEVATION - AREA A (WEST)
1/8"=1'-0"



A3 SOUTH ELEVATION - AREA B (EAST)
1/8"=1'-0"

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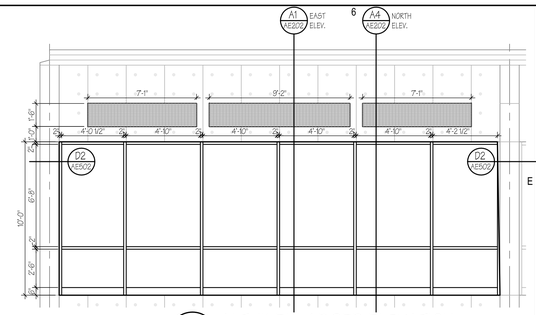
SHEET TITLE

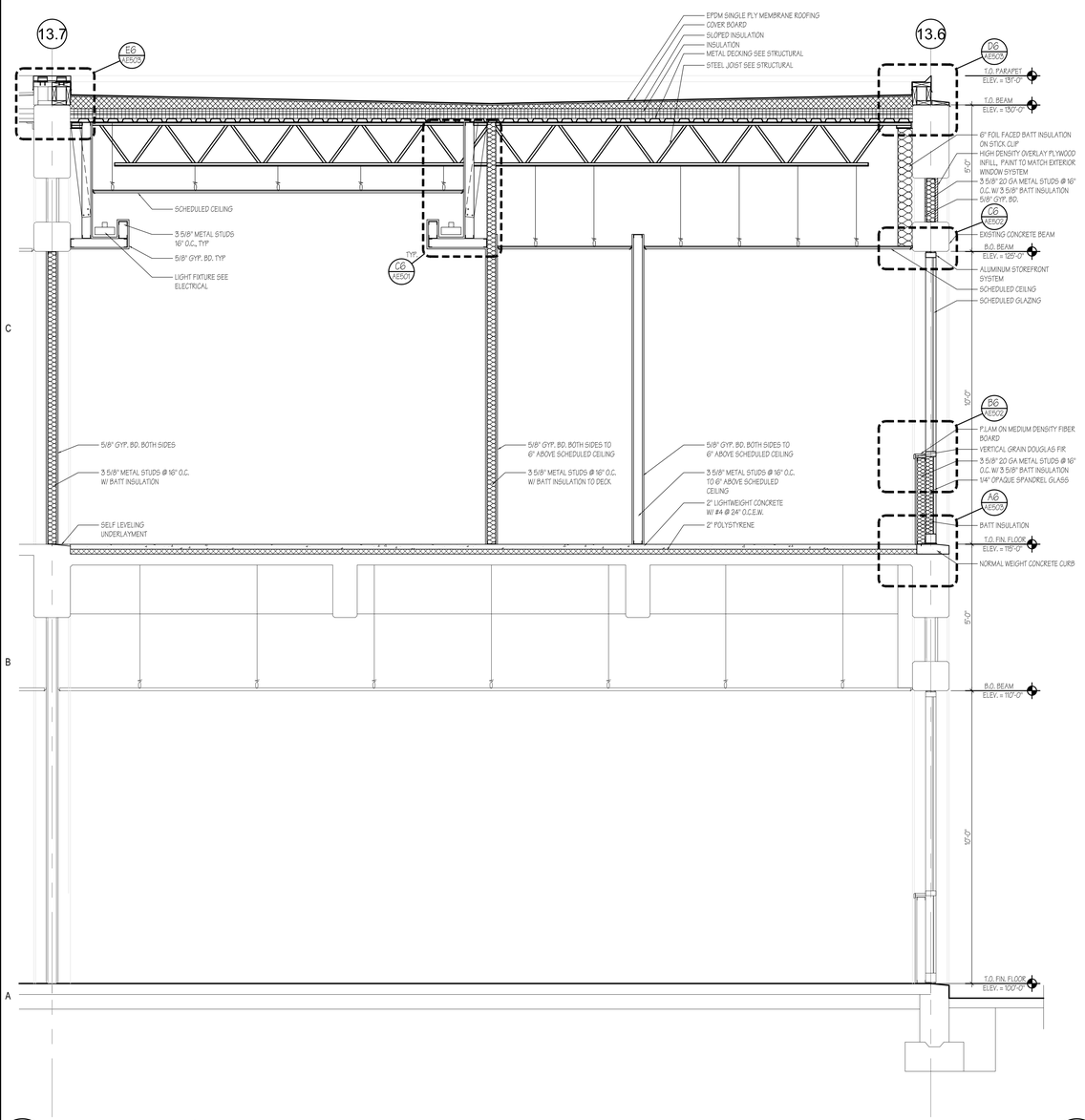
SOUTH ELEVATIONS

AE201

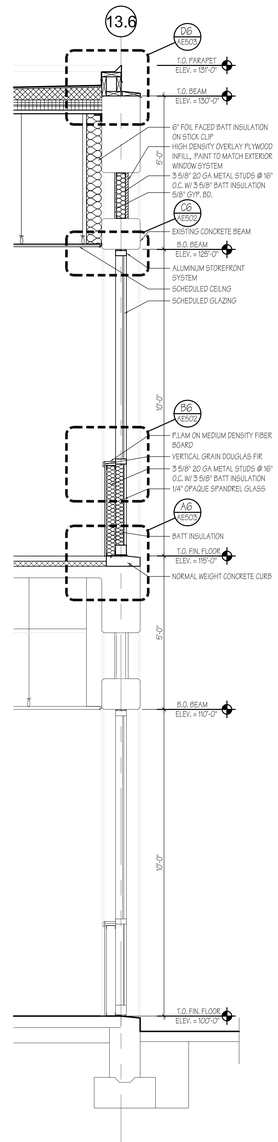
SHEET 15 OF 25



E6 ALT #1 ENLARGED ELEVATION
1/4"=1'-0"



A1 ALT #1 WALL SECTION
SCALE: 1/2" = 1'-0"



A4 ALT #1 WALL SECTION
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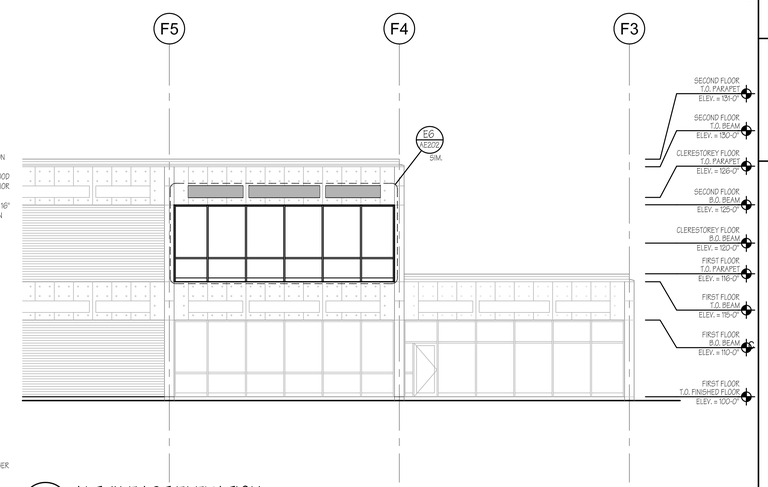
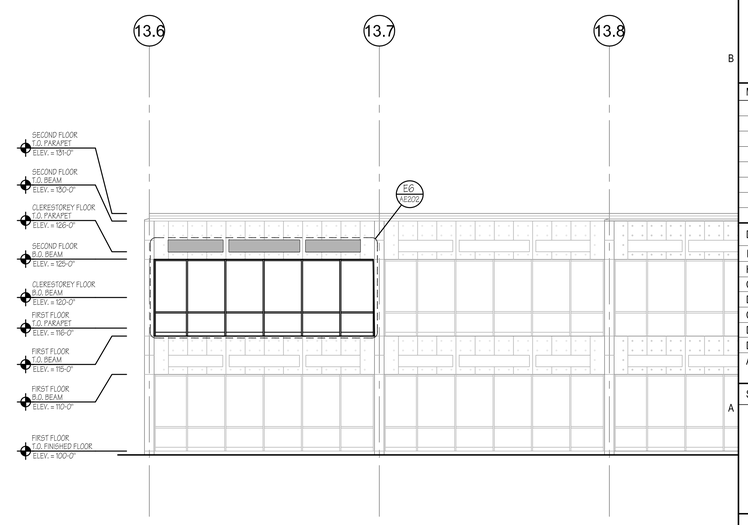
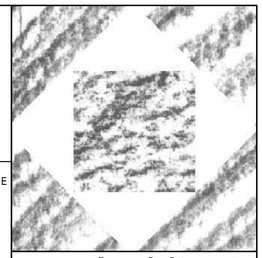


C5 ALT #1 EAST ELEVATION
1/8"=1'-0"



A5 ALT #1 NORTH ELEVATION - AREA B (EAST)
1/8"=1'-0"



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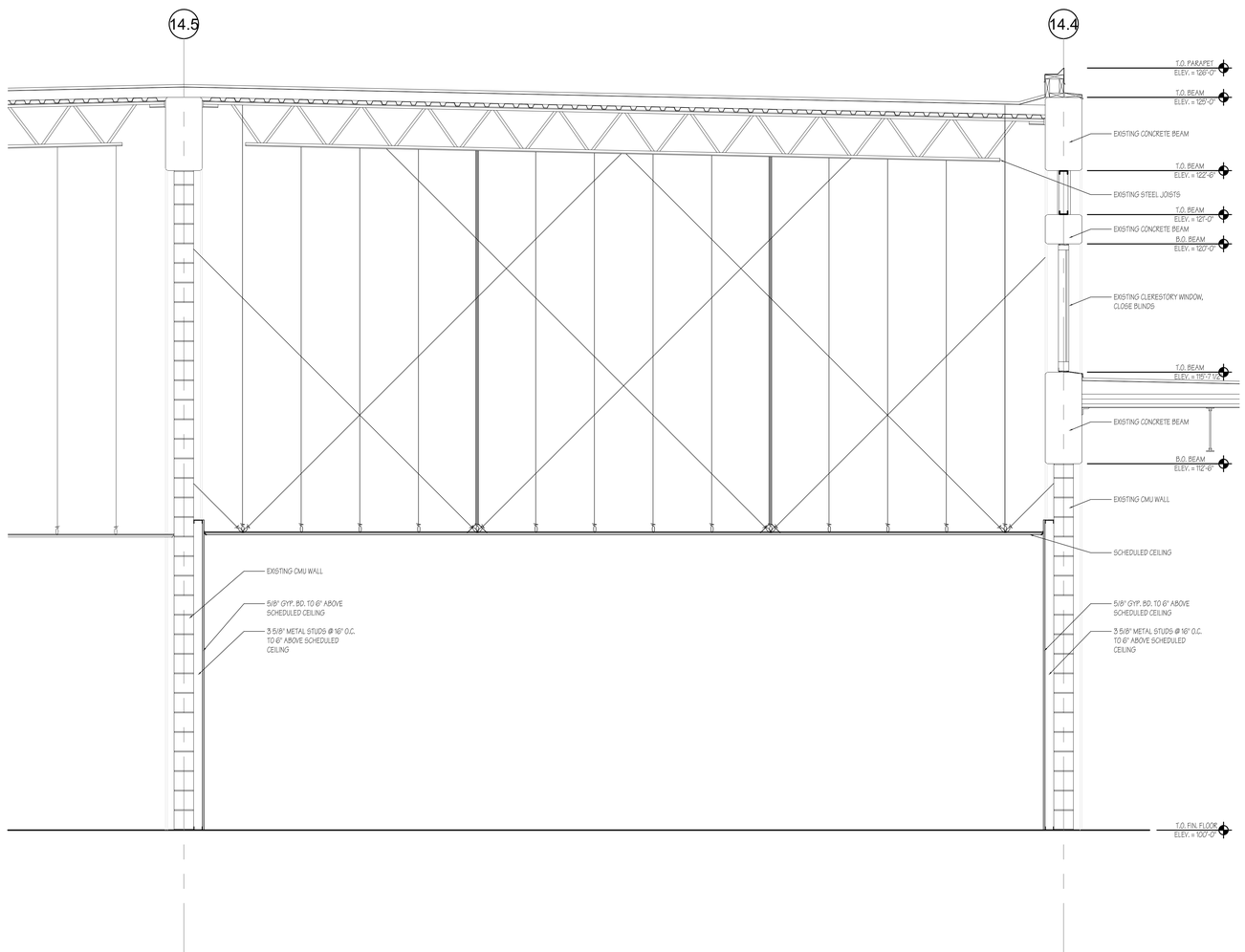
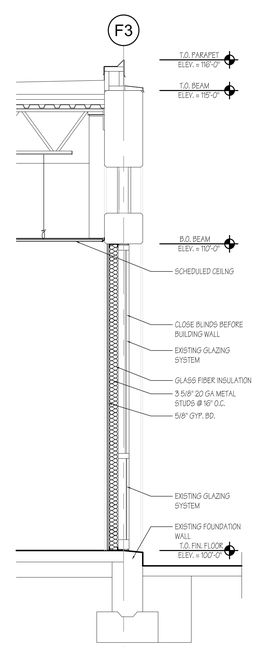
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE
ALT #1 NORTH & EAST ELEVATIONS & WALL SECTIONS

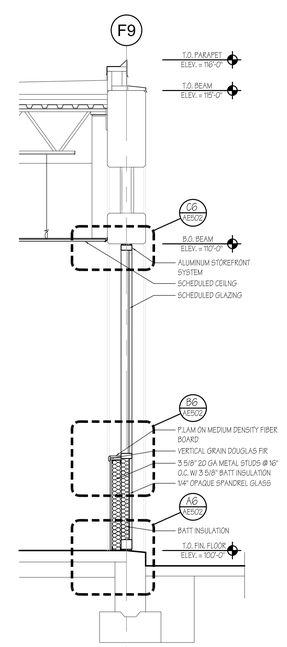
AE202 ALT #1
SHEET 16 OF 25



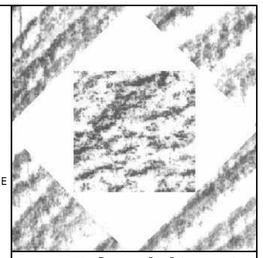
A2 BUILDING SECTION
SCALE: 1/2" = 1'-0"



A5 WALL SECTION
SCALE: 1/2" = 1'-0"



A6 WALL SECTION
SCALE: 1/2" = 1'-0"



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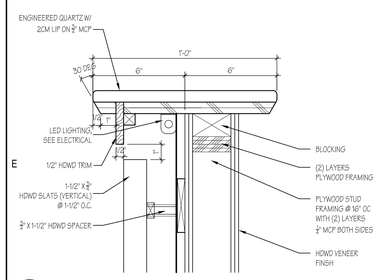
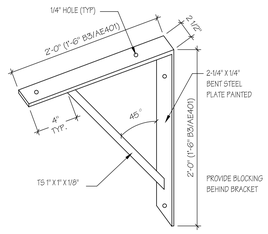
SHEET TITLE

WALL SECTIONS

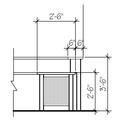
AE301



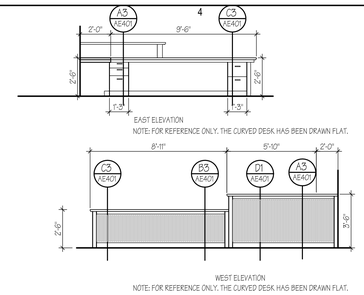
E1 RECEPTION DESK DETAIL
SCALE: 3"=1'-0"



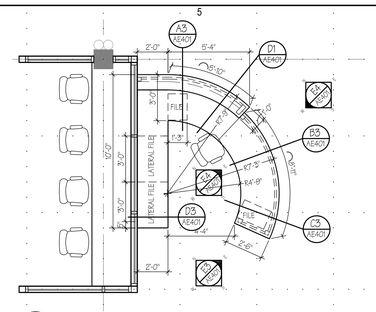
E2 COUNTER BRACKET DETAIL
N.T.S.



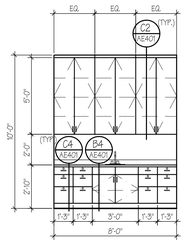
E3 RECEPTION DESK ELEVATION
SCALE: 1/4" = 1'-0"



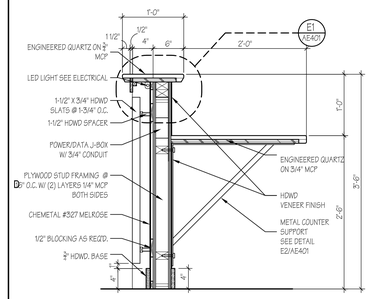
E4 RECEPTION DESK ELEVATION
SCALE: 1/4" = 1'-0"



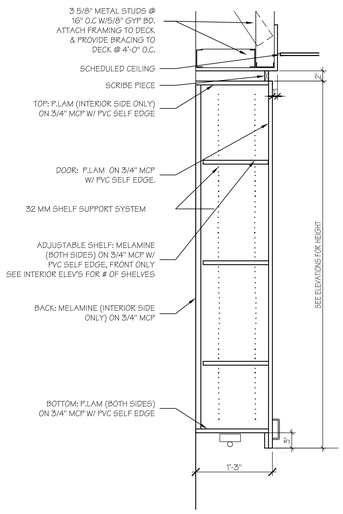
E5 RECEPTION DESK PLAN
SCALE: 1/4" = 1'-0"



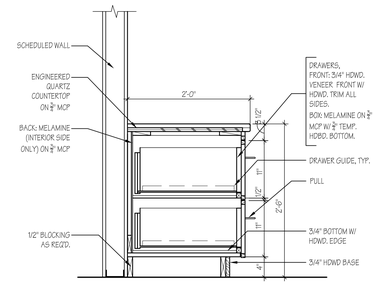
E6 PHYSICAL EXAM ROOM 137 ELEVATION
SCALE: 1/4" = 1'-0"



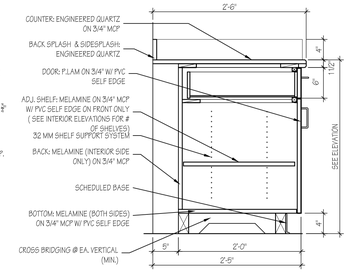
D1 RECEPTION DESK DETAIL
SCALE: 1"=1'-0"



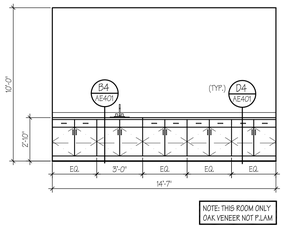
C2 OVERHEAD CABINET
SCALE: 1" = 1'-0"



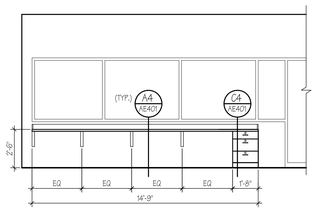
D3 RECEPTION DESK SECTION
SCALE: 1" = 1'-0"



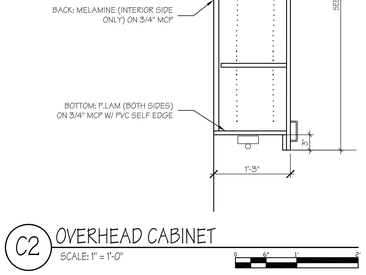
D4 CASEWORK DETAIL
SCALE: 1" = 1'-0"



D5 CONFERENCE ROOM 121 ELEVATION
SCALE: 1/4" = 1'-0"



D6 PHYSICAL EXAM ROOM 137 ELEVATION
SCALE: 1/4" = 1'-0"



C3 RECEPTION DESK SECTION
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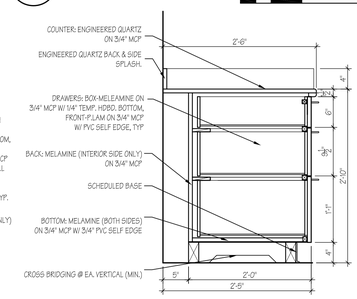

C4 CASEWORK DETAIL
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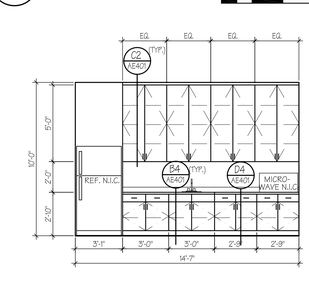
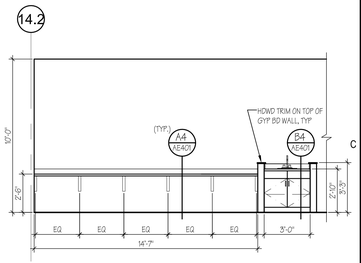
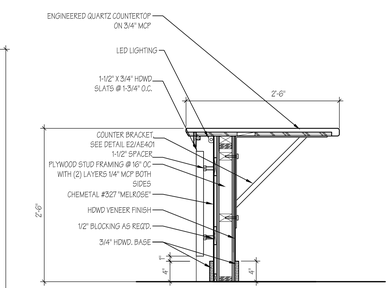


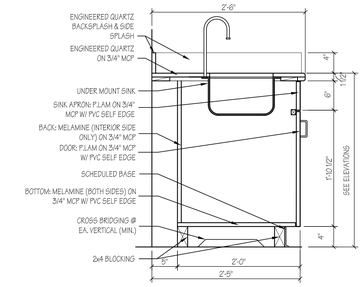
C5 FACULTY ROOM 120 ELEVATION
SCALE: 1/4" = 1'-0"



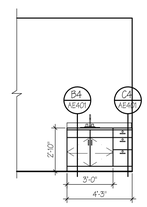
C6 OB/COMM/PED ROOM 130 ELEVATION
SCALE: 1/4" = 1'-0"



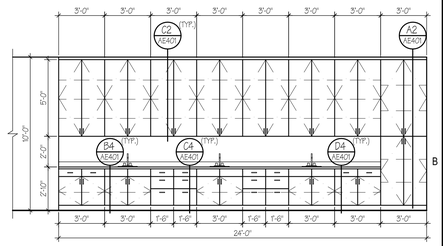
B3 RECEPTION DESK SECTION
SCALE: 1" = 1'-0"



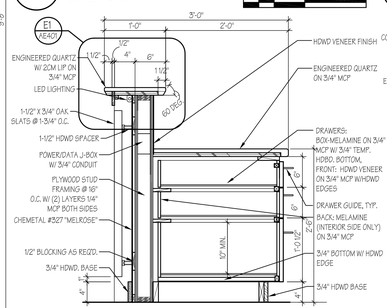
B4 SINK-CASEWORK DETAIL
SCALE: 1" = 1'-0"



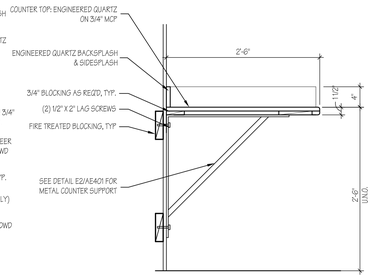
B5 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



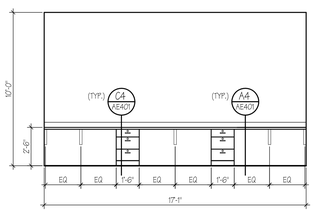
B6 CLASSROOM 145 ELEVATION
SCALE: 1/4" = 1'-0"



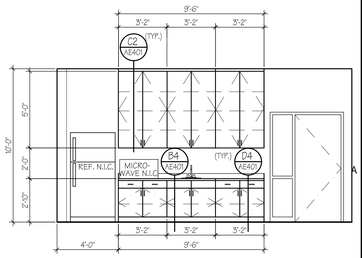
A3 RECEPTION DESK SECTION
SCALE: 1" = 1'-0"



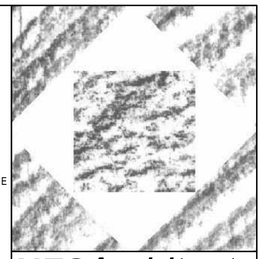
A4 COUNTER DETAIL
SCALE: 1" = 1'-0"



A5 CONTROL ROOM 133 ELEVATION
SCALE: 1/4" = 1'-0"



A6 FACULTY ROOM 141 ELEVATION
SCALE: 1/4" = 1'-0"



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HFSA PROJECT NO:	1038.01
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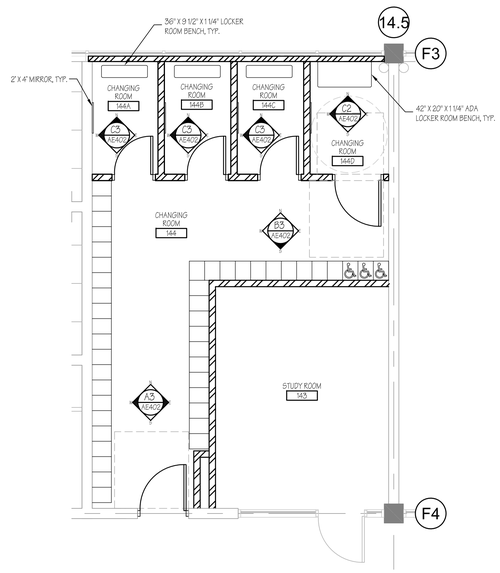
CHECKED BY:	BWS
DESIGNED BY:	BWS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

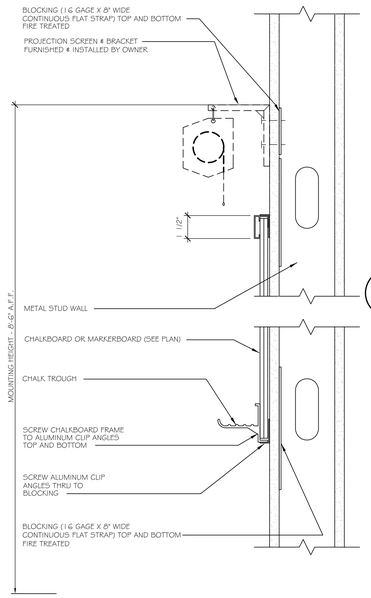
CASEWORK ELEVATIONS & DETAILS

AE401

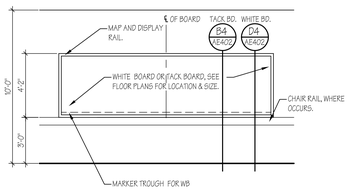
SHEET 18 OF 25



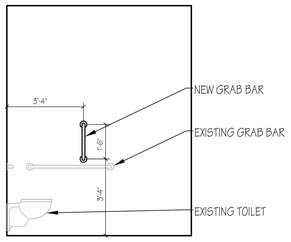
D2 ENLARGED LOCKER ROOM AREA
SCALE: 1/4" = 1'-0"



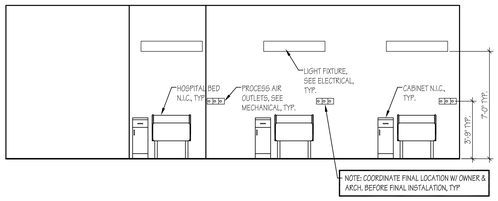
D4 WHITE BD./PROJECTION SCREEN DETAIL
SCALE: 3" = 1'-0"



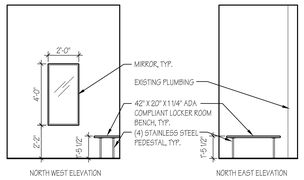
E5 WHITE BOARD/TACK BOARD ELEVATION
SCALE: 1/4" = 1'-0"



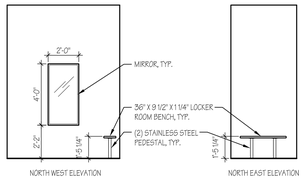
E6 VERTICAL GRAB BAR LOCATION
SCALE: 3/8" = 1'-0"



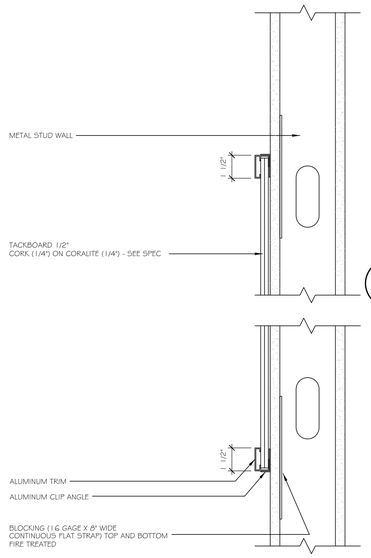
D5 PHYSICAL EXAM LAB 137 EAST ELEVATION
SCALE: 1/4" = 1'-0"



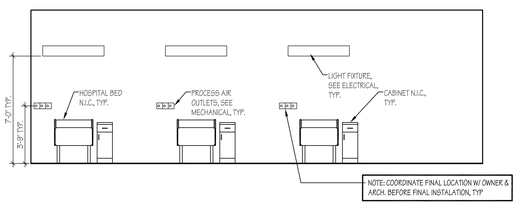
C2 ADA CHANGING ROOM ELEVATIONS
SCALE: 1/4" = 1'-0"



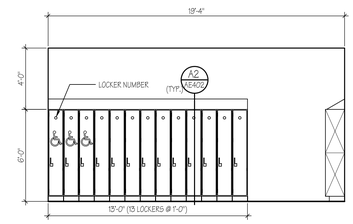
C3 TYP CHANGING ROOM ELEVATIONS
SCALE: 1/4" = 1'-0"



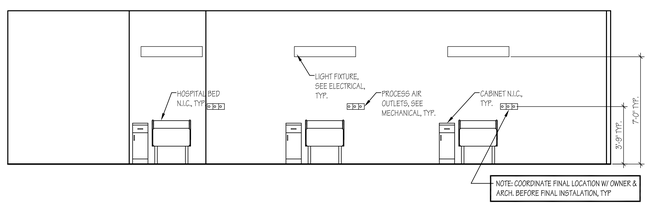
B4 TACK BOARD DETAIL
SCALE: 3" = 1'-0"



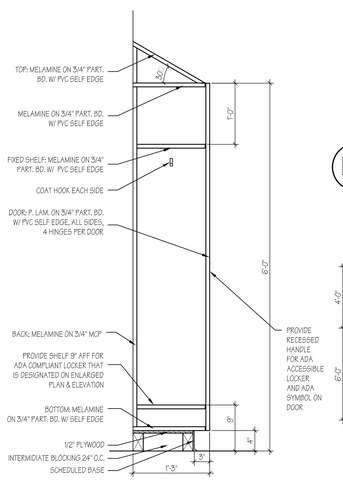
C5 PHYSICAL EXAM LAB 137 WEST ELEVATION
SCALE: 1/4" = 1'-0"



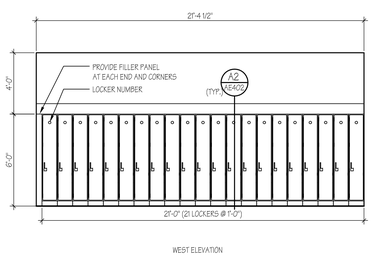
B3 CHANGING ROOM 144 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



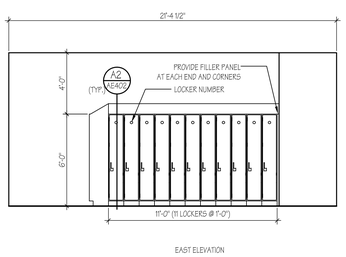
B5 BED LAB 140 EAST ELEVATION
SCALE: 1/4" = 1'-0"

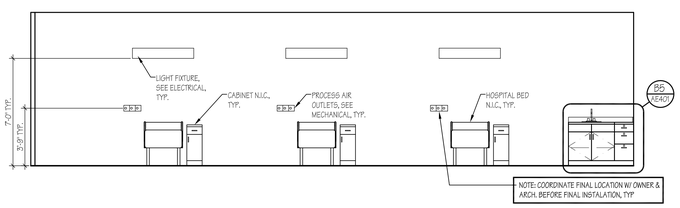


A2 LOCKER DETAIL
SCALE: 1" = 1'-0"

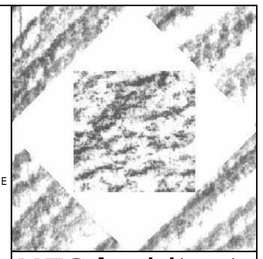


A3 CHANGING ROOM 144 WEST & EAST ELEVATIONS
SCALE: 1/4" = 1'-0"





A5 BED LAB 140 WEST ELEVATION
SCALE: 1/4" = 1'-0"



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ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

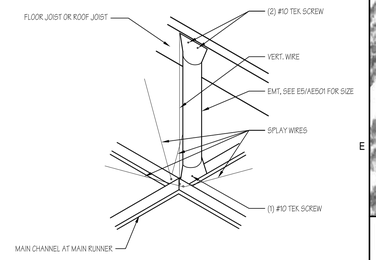
SHEET TITLE

INTERIOR ELEVATIONS & DETAILS

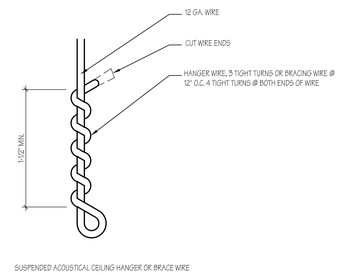
AE402

COMPRESSION STRUT SIZING	
EMT (ELECTRICAL METALLIC TUBING)	
DIAMETER	SPAN
1/2"	TO 2'-8"
3/4"	TO 4'-4"
1"	TO 6'-7"
FOR ALL DIAMETERS ABOVE 1-1/4" & SPANS TO 15' SEE DETAILS A4 & A5/AE501	
NOTE: FLATTEN ENDS OF CONDUIT. CONNECT TO "T"-BAR MAIN RUNNER WITH, (1) #10 TEK SCREW. CONNECT TO JOIST TOP CHORD, WITH (2) #10 TEK SCREWS	

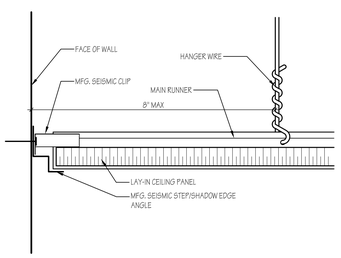
E5 COMPRESS. STRUT SIZING SCHEDULE
N.T.S.



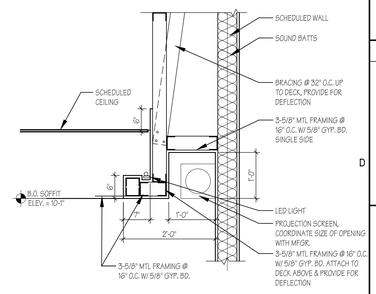
E6 CEILING ANCHOR SYSTEM
N.T.S.



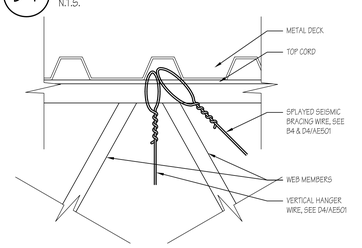
D4 TYPICAL CEILING DETAIL
N.T.S.



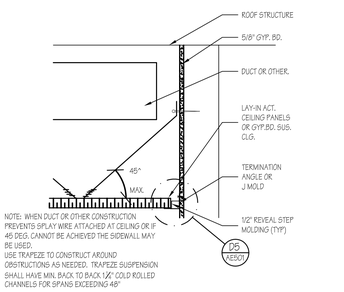
D5 TYPICAL CEILING DETAIL
SCALE: 6"=1'-0"



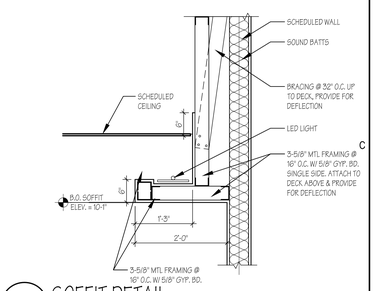
D6 PROJECTION SCREEN DETAIL
SCALE: 3/4" = 1'-0"



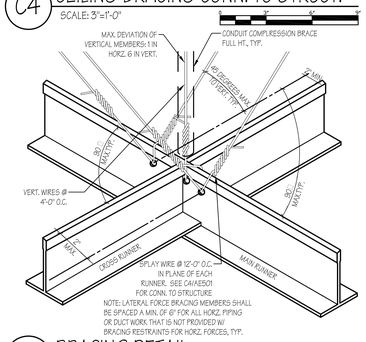
C4 CEILING BRACING CONN. TO STRUCT.
SCALE: 3"=1'-0"



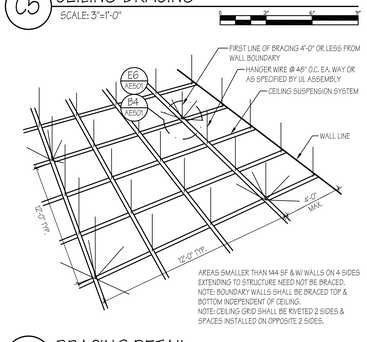
C5 CEILING BRACING
SCALE: 3"=1'-0"



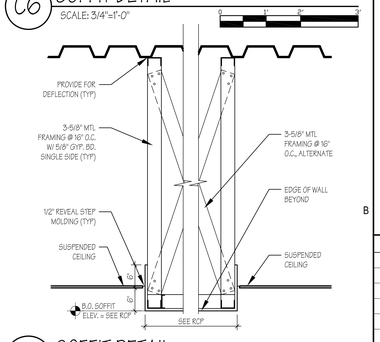
C6 SOFFIT DETAIL
SCALE: 3/4"=1'-0"



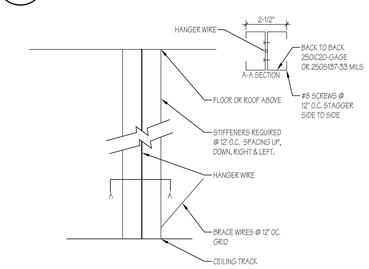
B4 BRACING DETAIL
N.T.S.



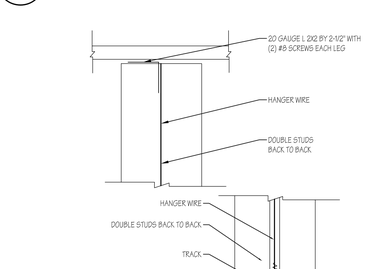
B5 BRACING DETAIL
N.T.S.



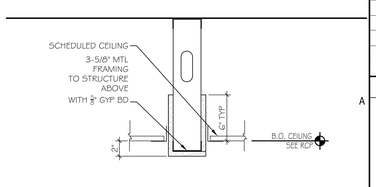
B6 SOFFIT DETAIL
SCALE: 3/4"=1'-0"



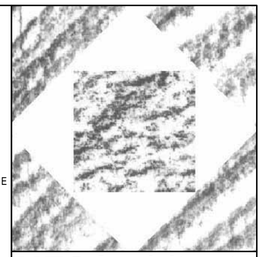
A4 CEILING STRUT DETAIL
SCALE: 3"=1'-0"



A5 CEILING STRUT DETAIL
SCALE: 3"=1'-0"



A6 HEADER DETAIL
SCALE: 1 1/2"=1'-0"



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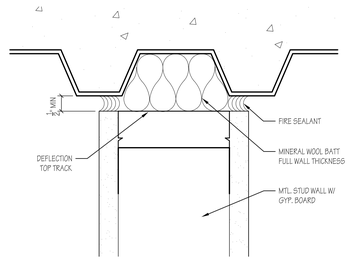
SHEET TITLE

CEILING, ROOF
& MISC. DETAILS

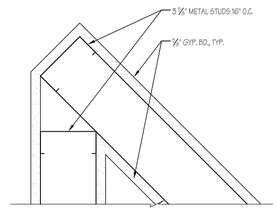
AE501

SHEET 20 OF 25

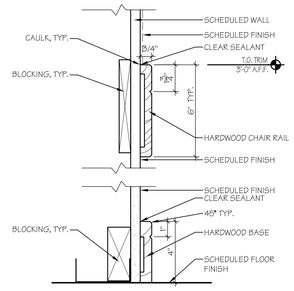


NOTE: USE UL1479

E3 RATED WALL - HEAD DETAIL
SCALE: 6" = 1'-0"

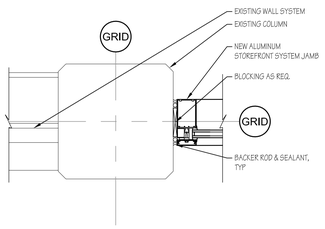


E4 OUTSIDE CORNER DETAIL
SCALE: 3" = 1'-0"

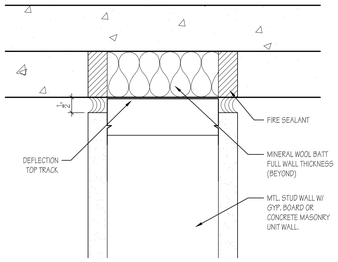


E5 HDWD CHAIR RAIL & BASE DETAIL
SCALE: 3" = 1'-0"

E6 NOT USED
N.T.S.

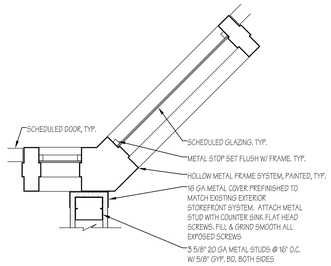


D2 WINDOW JAMB DETAIL
SCALE: 1 1/2" = 1'-0"

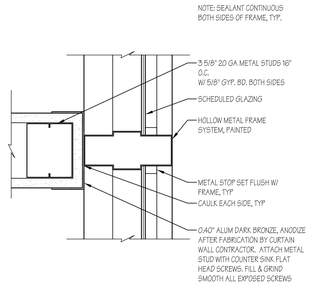


NOTE: USE UL1479

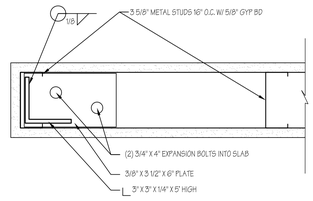
D3 RATED WALL - HEAD DETAIL
SCALE: 6" = 1'-0"



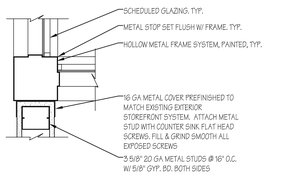
D4 WINDOW JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



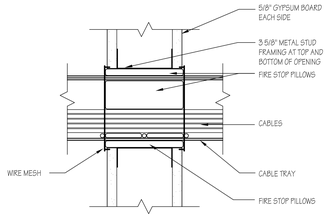
D5 WALL TO MULLION DETAIL
SCALE: 3" = 1'-0"



D6 LOW WALL BASE DETAIL
SCALE: 3"=1'-0"

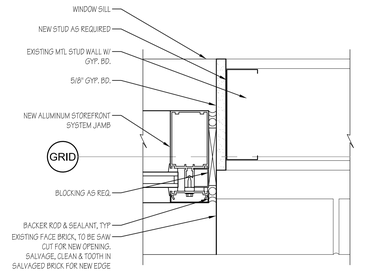


C2 WINDOW JAMB DETAIL
SCALE: 1 1/2" = 1'-0"

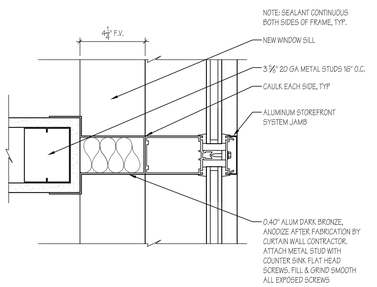


UL DESIGN WL4001

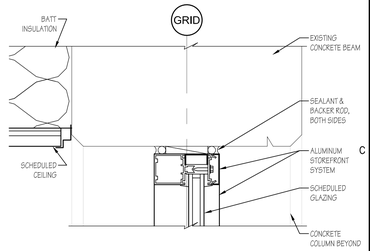
C3 RATED WALL - CABLE TRAY PENETRAT.
SCALE: 3" = 1'-0"



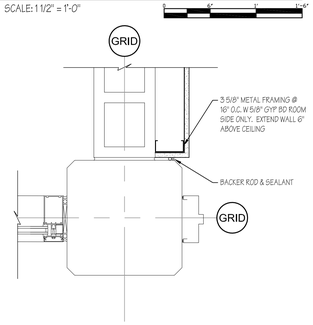
C4 WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



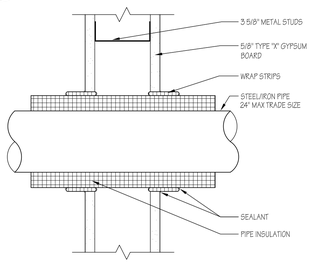
C5 WALL TO MULLION DETAIL
SCALE: 3" = 1'-0"



C6 HEAD DETAIL
SCALE: 3" = 1'-0"

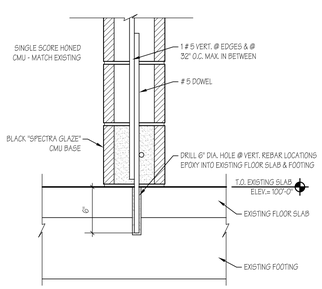


B2 FURRING DETAIL
SCALE: 1 1/2" = 1'-0"

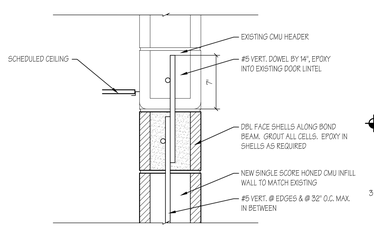


UL DESIGN WL1010 W/O PIPE INSULATION
UL DESIGN WL5032 W/ PIPE INSULATION

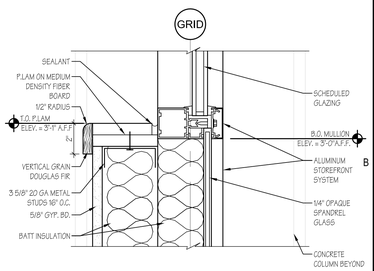
B3 RATED WALL - PENETRATION
SCALE: 3" = 1'-0"



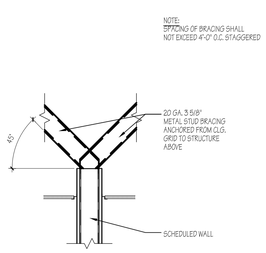
B4 CMU INFILL FLOOR CONNECTION
SCALE: 1-1/2" = 1'-0"



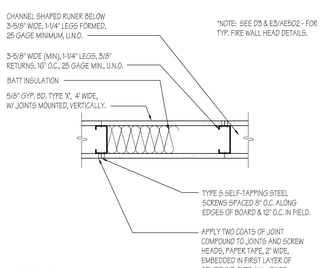
B5 CMU INFILL HEAD CONNECTION
SCALE: 1-1/2" = 1'-0"



B6 SILL DETAIL
SCALE: 3" = 1'-0"

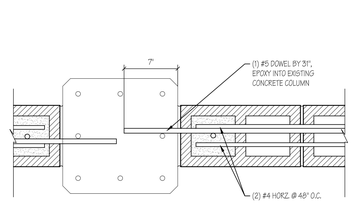


A2 WALL BRACING DETAIL
SCALE: 1" = 1'-0"

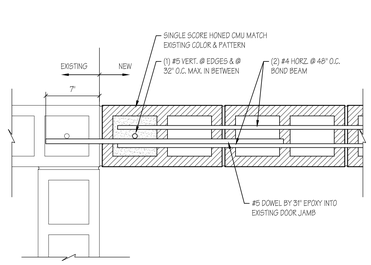


UL DESIGN U465

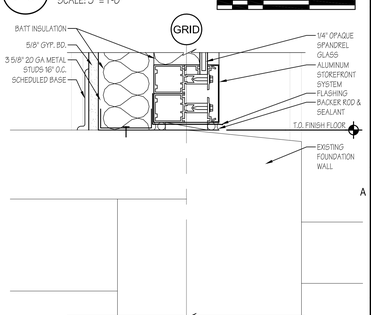
A3 1-HR RATED UL WALL
SCALE: 1 1/2" = 1'-0"



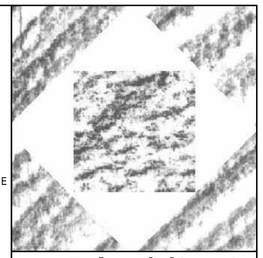
A4 CMU INFILL COLUMN CONNECTION
SCALE: 1-1/2" = 1'-0"



A5 CMU INFILL WALL CONNECTION
SCALE: 1-1/2" = 1'-0"



A6 SILL DETAIL
SCALE: 3" = 1'-0"



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WEST CAMPUS
INTERIOR IMPROVEMENTS

UTAH VALLEY UNIVERSITY
987 SOUTH GENEVA ROAD
OREM, UTAH 84058

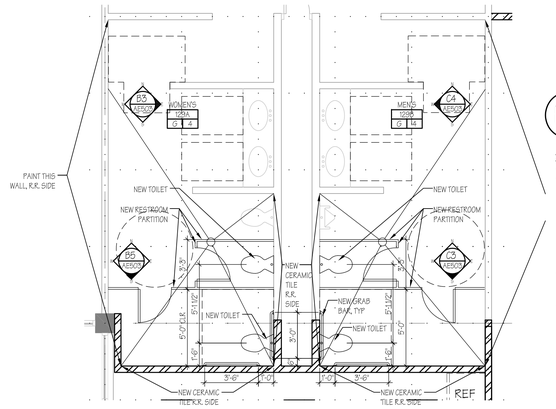
MARK	DATE	DESCRIPTION

DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	BWS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

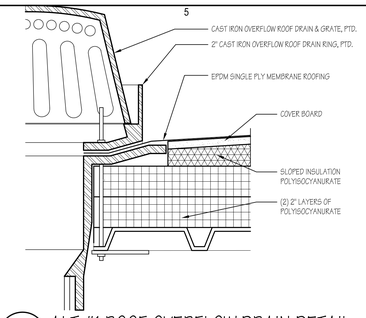
SHEET TITLE

WALL &
MISC. DETAILS

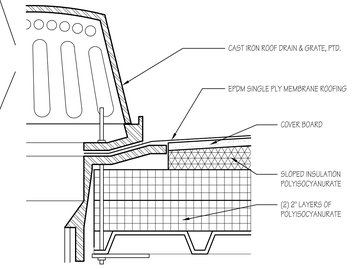
AE502



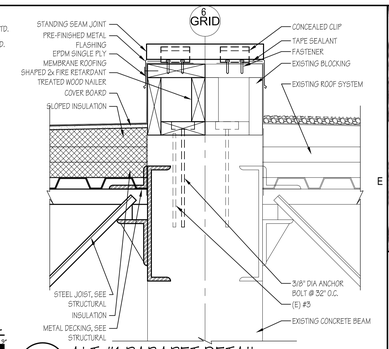
D4 ALT #1 ENLARGED RESTROOM PLANS
SCALE: 1/4" = 1'-0"



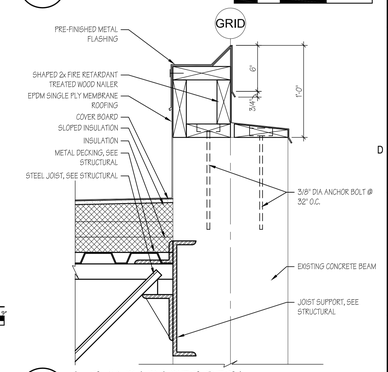
E5 ALT #1 ROOF OVERFLOW DRAIN DETAIL
SCALE: 3" = 1'-0"



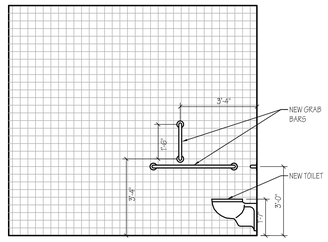
D5 ALT #1 ROOF DRAIN DETAIL
SCALE: 3" = 1'-0"



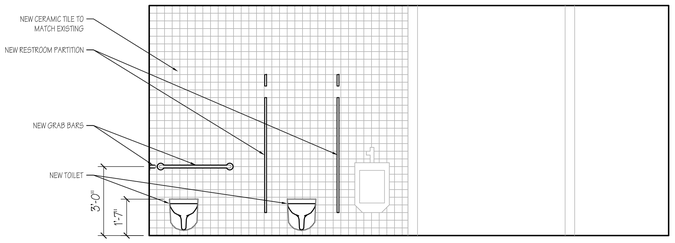
E6 ALT #1 PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"



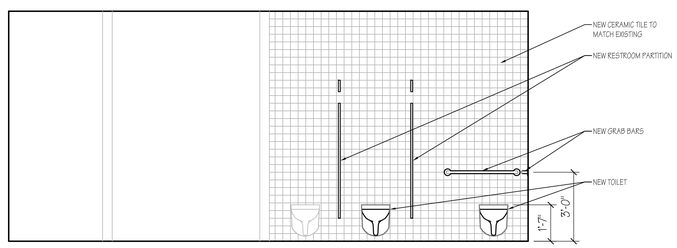
D6 ALT #1 PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"



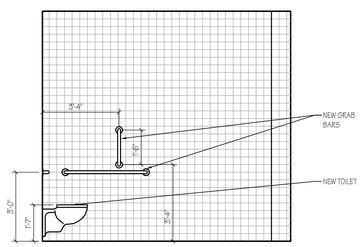
C3 ALT #1 MEN'S RESTROOM SOUTH ELEV.
SCALE: 3/8" = 1'-0"



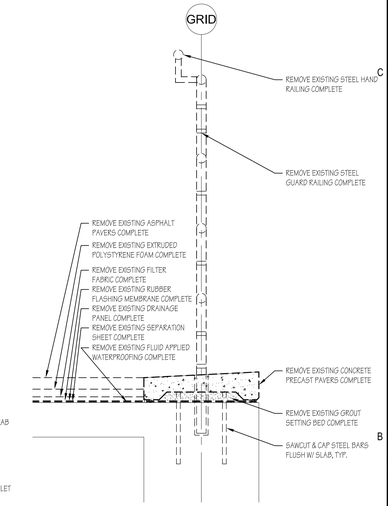
C4 ALT #1 MEN'S RESTROOM WEST ELEV.
SCALE: 3/8" = 1'-0"



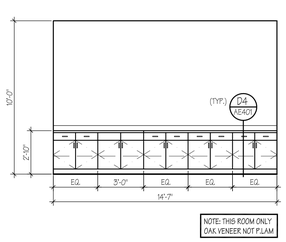
B3 ALT #1 WOMEN'S RESTROOM EAST ELEV.
SCALE: 3/8" = 1'-0"



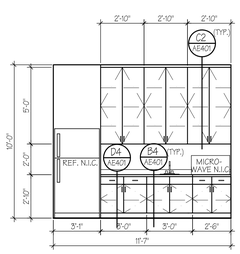
B5 ALT #1 WOMEN'S RESTROOM SOUTH ELEV.
SCALE: 3/8" = 1'-0"



B6 ALT #1 DEMO RAILING & PATIO DETAIL
SCALE: 1 1/2" = 1'-0"



A2 CONFERENCE ROOM 202 ELEVATION
SCALE: 1/4" = 1'-0"

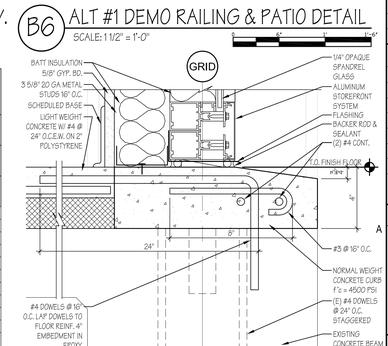


A3 ALT #1 FACULTY ROOM 119 ELEVATION
SCALE: 1/4" = 1'-0"

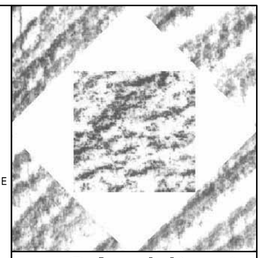
ALTERNATE #1 DOOR SCHEDULE

DOOR NUMB.	DOOR						FRAME						
	TYPE	MATERIAL	FIINISH	DOOR SIZE			TYPE	MATERIAL	FINISH	UL LABEL	DETAILS		
				W	H	T					H	J	T
117	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	2	HM	PAINT	--	C3/AE601	C4/AE601	--
118	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	2	HM	PAINT	--	C3/AE601	C4/AE601	--
119	B	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
120	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	2	HM	PAINT	--	C3/AE601	C4/AE601	--
201	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
202	B	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	2	HM	PAINT	--	C3/AE601	C4/AE601	--
203	B	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
204	B	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	2	HM	PAINT	--	C3/AE601	C4/AE601	--
205	B	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	2	HM	PAINT	--	C3/AE601	C4/AE601	--

A4 ALT #1 DOOR SCHEDULE
N.T.S.



A6 ALT #1 SILL DETAIL
SCALE: 3" = 1'-0"



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UTAH VALLEY UNIVERSITY
987 SOUTH GENEVA ROAD
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MARK	DATE	DESCRIPTION

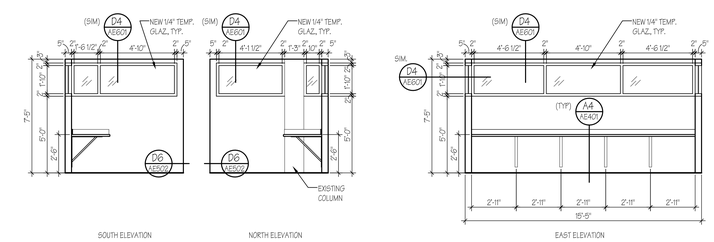
DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	BWS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

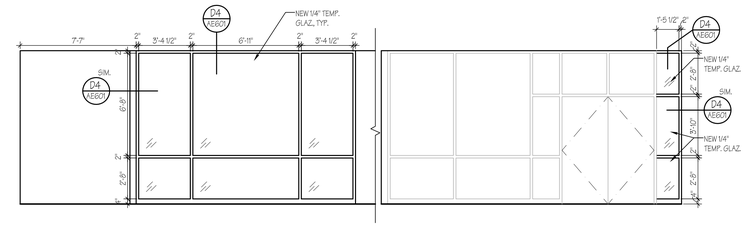
ALT #1 ENLARGED PLANS, ELEVATIONS & DETAILS

AE503 ALT1

SHEET 22 OF 25

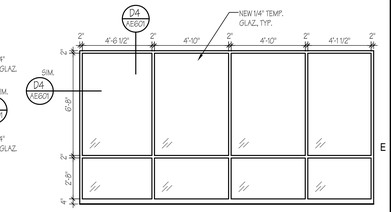


E2 OPEN OFFICE 102 EAST ELEVATION
SCALE: 1/4" = 1'-0"

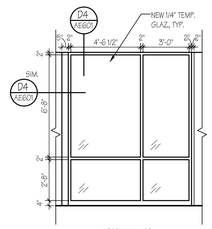


E4 RECEPTION 101 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

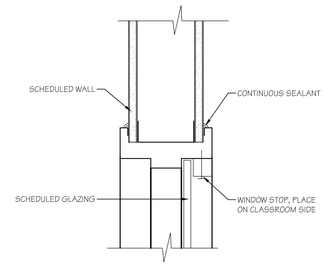
E5 CLASSROOM 128 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



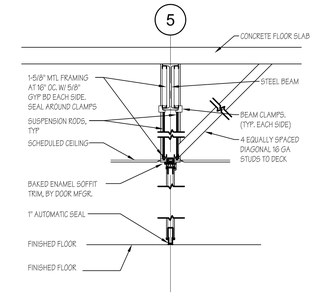
E6 CLASSROOM 128 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



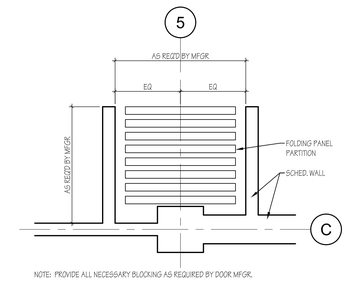
D3 CONFERENCE ROOM 121 ELEVATIONS
SCALE: 1/4" = 1'-0"



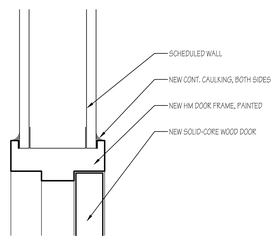
D4 WINDOW HEAD DETAIL (JAMB SIM.)
SCALE: 3" = 1'-0"



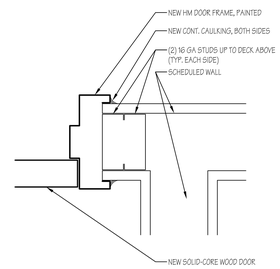
D5 FOLDING DOOR HEAD DETAIL
SCALE: N.T.S.



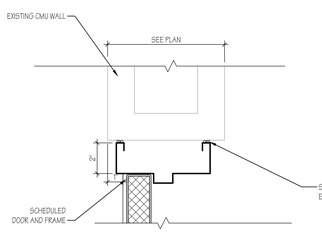
D6 FOLDING DOOR DETAIL
SCALE: N.T.S.



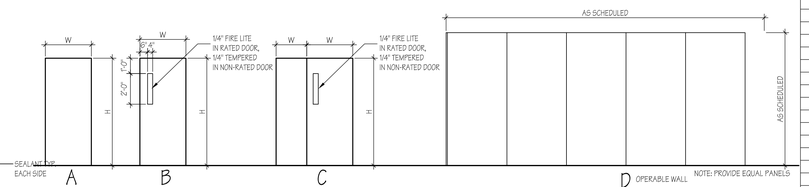
C3 HEAD DETAIL
SCALE: 3" = 1'-0"



C4 JAMB DETAIL
SCALE: 3" = 1'-0"



B2 HEAD DETAIL CMU WALL (JAMB SIM.)
SCALE: 3" = 1'-0"

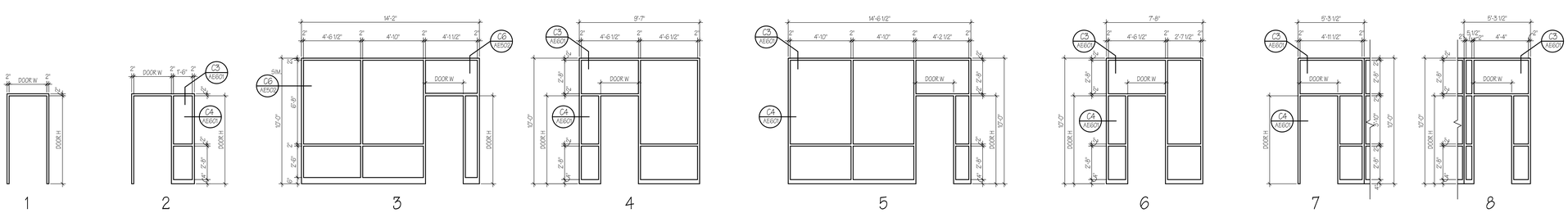


B3 DOOR TYPE
SCALE: 1/4" = 1'-0"

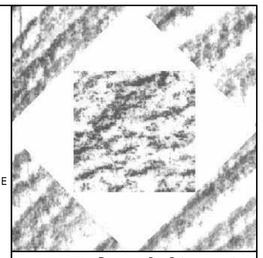
B5 DOOR SCHEDULE
N.T.S.

DOOR SCHEDULE

DOOR NUMB.	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME UL LABEL	DETAILS H	DETAILS J	DETAILS T
103	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	7	HM	PAINT	--	C3/AE601	C4/AE601	--
103	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
104	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	8	HM	PAINT	--	C3/AE601	--	--
110	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	4	HM	PAINT	--	C3/AE601	C4/AE601	--
111	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	2	HM	PAINT	--	C3/AE601	C4/AE601	--
112	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	60 MIN	C3/AE601	C4/AE601	--
113	B	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
114	B	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
115	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	2	HM	PAINT	--	C3/AE601	C4/AE601	--
116	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	2	HM	PAINT	--	C3/AE601	C4/AE601	--
117	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	2	HM	PAINT	--	C3/AE601	C4/AE601	--
119	B	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
120	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	2	HM	PAINT	--	C3/AE601	C4/AE601	--
121	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	5	HM	PAINT	--	C3/AE601	C4/AE601	--
122	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	--	--	--
126	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	3	ALUM	ALUM	--	C6/AE502	C6/AE502 SIM.	--
127	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	6	HM	PAINT	--	C3/AE601	--	--
131	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
132A	C	SC	PRE. FIN.	(1) 3'-0" (1) 2'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
132B	C	SC	PRE. FIN.	(1) 3'-0" (1) 2'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
132C	D	--	--	19'-5"	10'-0"	--	--	--	--	--	D5/AE601	D6/AE601	--
133	B	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
134	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
136A	D	SC	PRE. FIN.	(1) 3'-0" (1) 10"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
137	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	1	HM	PAINT	--	C3/AE601	C4/AE601	--
144	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	B2/AE601	B2/AE601 SIM.	--
144A	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
144B	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
144C	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--
144D	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	C3/AE601	C4/AE601	--



A3 DOOR FRAME
SCALE: 1/4" = 1'-0"



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DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	BWS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

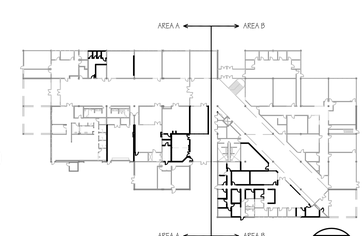
SHEET TITLE

DOOR SCHEDULE & DETAILS

AE601

SHEET 23 OF 25

A3 1ST FLOOR FURNITURE PLAN - AREA A (FOR REF. ONLY)
1/8"=1'-0"



A6 1ST FLOOR KEY PLAN
1/64"=1'-0"

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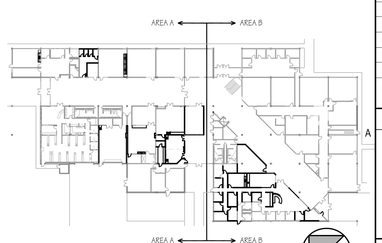
SHEET TITLE

1ST FLOOR FURN. PLAN AREA A (FOR REF. ONLY)

AE901.A

SHEET 24 OF 25

A3 1ST FLOOR FURN. PLAN - AREA B (FOR REF. ONLY)
1/8"=1'-0"



A6 1ST FLOOR KEY PLAN
1/64"=1'-0"

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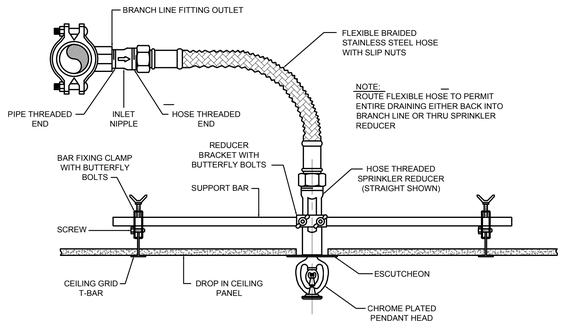
SHEET TITLE

1ST FLOOR FURN.
PLAN AREA B
(FOR REF. ONLY)

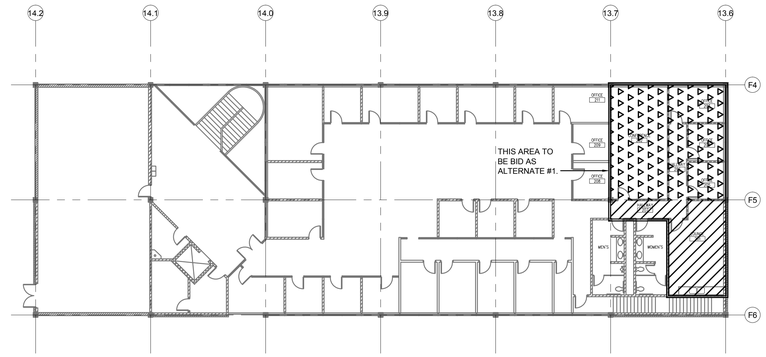
AE901.B

SHEET 25 OF 25



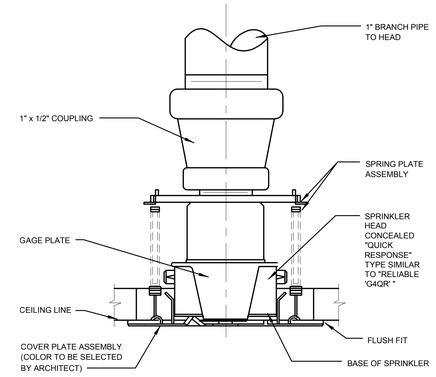
SPRINKLER HOSE DETAIL (2 / FP101)

NOT TO SCALE



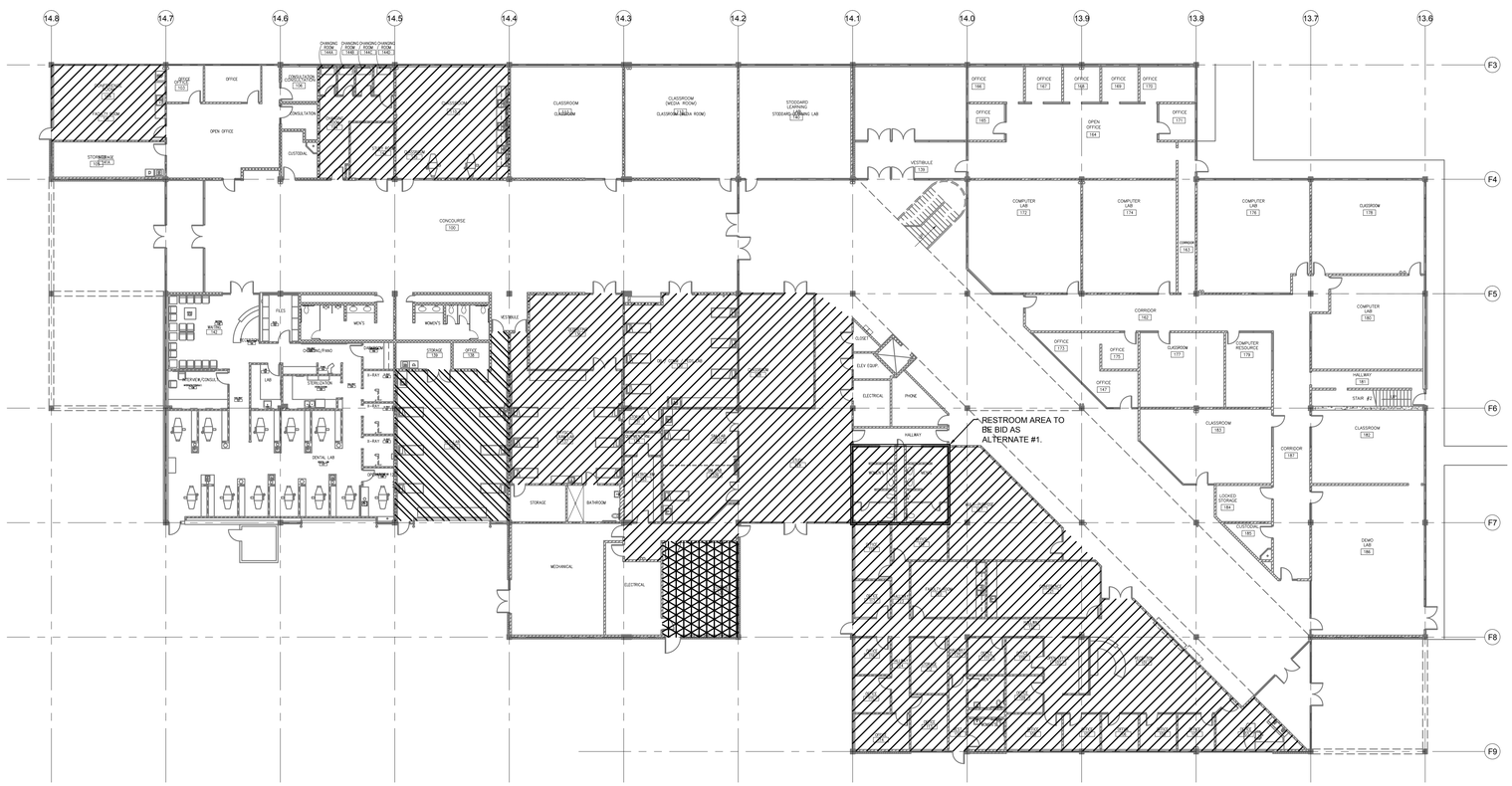
UVU WEST CAMPUS REMODEL
SECOND FLOOR FIRE PROTECTION

SCALE: 1/16" = 1'-0"



FLUSH SPRINKLER HEAD DETAIL (- / -)

NOT TO SCALE 9-106



UVU WEST CAMPUS REMODEL
FIRST FLOOR FIRE PROTECTION

SCALE: 1/16" = 1'-0"

FIRE PROTECTION LEGEND

NO MARK — NO FIRE SPRINKLER PIPING HEADS TO BE RE-ROUTED TO HEADS.

EXISTING, CHROME PLATED PENDANT SPRINKLER HEADS TO BE REMOVED. LIGHT HAZARD, GYP. BOARD OR LAY-IN CEILING, CONCEALED TYPE HEADS WITH BRIGHT WHITE COVERS. SEE DETAIL 1/FP-101. PIPING SHALL BE RE-ROUTED AS SHALL BE NECESSARY.

EXISTING, UPRIGHT SPRINKLER HEADS TO BE REMOVED. LIGHT HAZARD, GYP. BOARD OR LAY-IN CEILING, CONCEALED TYPE HEADS WITH BRIGHT WHITE COVERS. SEE DETAIL 1/FP-101. PIPING SHALL BE RE-ROUTED AS SHALL BE NECESSARY. EXISTING PIPING MAY BE VERY HIGH IN THIS AREA.

EXISTING, UPRIGHT SPRINKLER HEADS IN THIS AREA. ADD UPRIGHT BRASS SPRINKLER HEADS AS NECESSARY FOR ORDINARY HAZARD, GROUP 1.

NEW FIRE SPRINKLERS AND PIPING SHALL BE REQUIRED IN THIS AREA. LIGHT HAZARD, GYP. BOARD OR LAY-IN CEILING, CONCEALED TYPE HEADS WITH BRIGHT WHITE COVERS. SEE DETAIL 1/FP-101. MAIN PIPING TO SERVE THIS AREA SHALL BE REQUIRED TO RUN FROM EXISTING MAIN WHERE SIZE IS ADEQUATE. FIELD VERIFY EXACT LOCATION.

GENERAL FIRE PROTECTION NOTES

1. THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ELECTRICAL, SHEET METAL, PLUMBING, AND CEILING CONTRACTORS TO AVOID ANY CONFLICTS IN PIPE ROUTING OR HEAD LOCATIONS.
2. RUN SPRINKLER PIPING AS HIGH AS POSSIBLE IN SPACE ABOVE CEILING AND COORDINATE WITH DUCTWORK.
3. FIRE SPRINKLER PLANS SHALL BE APPROVED BY ALL GOVERNING AGENCIES PRIOR TO SUBMITTING PLANS TO THE CONTRACTING OFFICER.
4. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE COMPLETE FIRE SPRINKLER SYSTEMS, INCLUDING ALL ITEMS AS REQUIRED OR RECOMMENDED BY ALL GOVERNING AGENCIES.
5. FIRE SPRINKLER SYSTEM SHALL COMPLY WITH N.F.P.A. 13 AND ALL GOVERNING AGENCIES.
6. FIRE SPRINKLER HEADS IN INDIVIDUAL ROOMS TO BE RUN IN STRAIGHT LINES AND COORDINATED WITH CEILING AND LIGHTS.
7. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE HIS LOCATION OF PIPING VERY CAREFULLY WITH THE ARCHITECTURAL AND STRUCTURAL PLANS AND AS APPROVED BY THE ARCHITECT.
8. THE CONTRACTING OFFICE SHALL BE NOTIFIED (IN WRITING) AT LEAST THREE DAYS IN ADVANCE OF HYDROSTATIC TESTING AND FINAL INSPECTION OF OVERHEAD SYSTEMS PRIOR TO INSTALLATION OF CEILINGS.
9. CONTRACTOR SHALL FIELD VERIFY ALL PIPE LOCATIONS PRIOR TO FABRICATION OF PIPE SYSTEMS.
10. FIRE PROTECTION DRAWINGS ARE DIAGRAMMATIC ONLY.
11. A NEW BRANCH OUTLET AND SPRINKLER HOSE CONNECTION SHALL BE USED FOR ALL HEADS. SEE DETAIL 2/FP101.
12. ALL FIRE SPRINKLERS ARE TO BE CENTERED IN THE CEILING TILES. FIRE SPRINKLER CONTRACTOR SHALL INSTALL ALL NEW HEADS IN TILES WITH FLEXIBLE HOSE CONNECTION SUCH AS SHOWN IN DETAIL 2/FP101.

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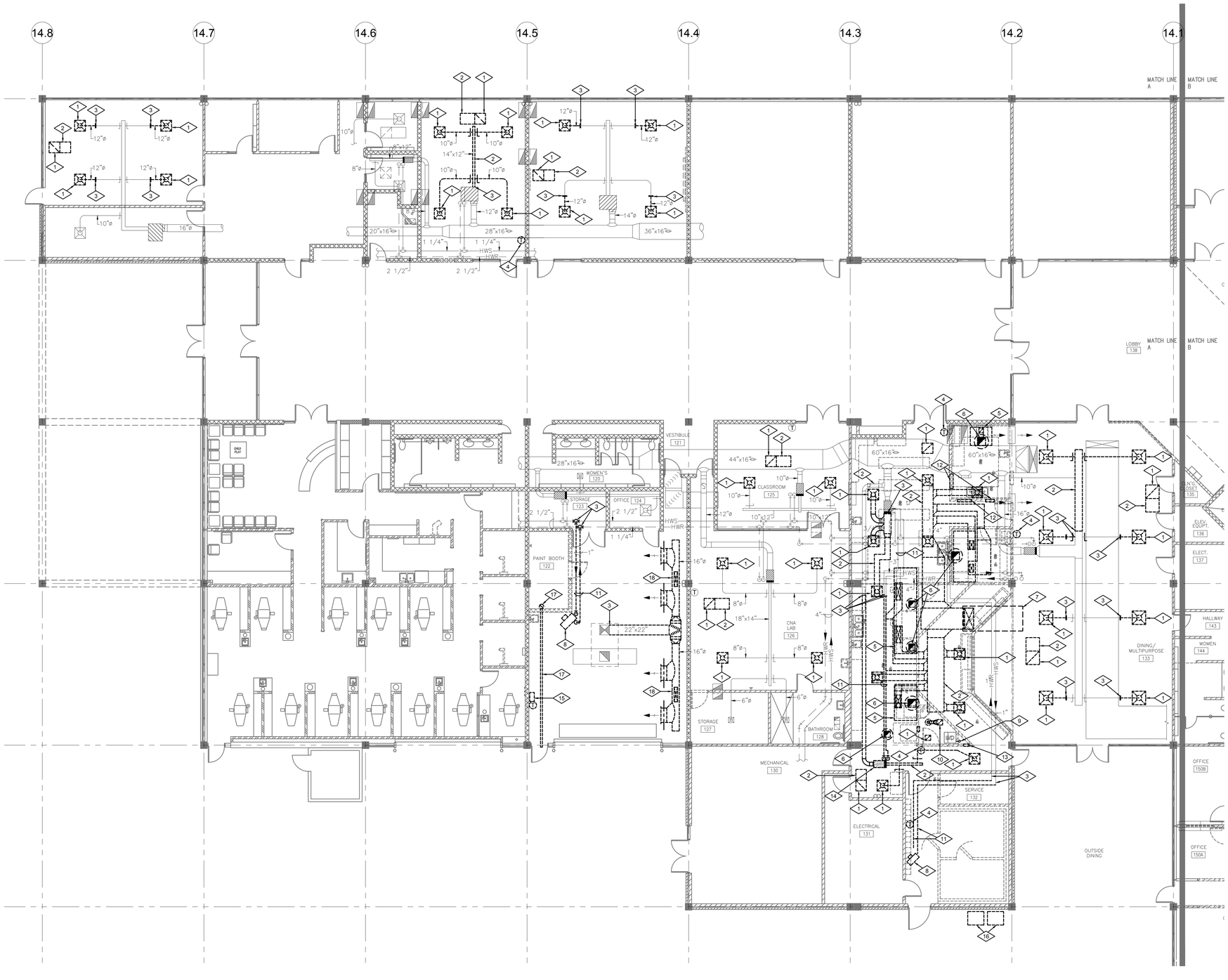
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

FIRE PROTECTION FLOOR PLANS

FP-101



REFERENCE NOTES

1. REMOVE DIFFUSER OR GRILLE IN CEILING. REMOVE FLEX DUCT WHERE APPLICABLE.
2. REMOVE DUCTWORK ABOVE CEILING.
3. DISCONNECT FROM EXISTING SYSTEM.
4. REMOVE WALL MOUNTED THERMOSTAT.
5. REMOVE KITCHEN HOOD. SALVAGE TO OWNER.
6. REMOVE EXHAUST FAN ON ROOF. LEAVE CURB IN PLACE. INSTALL SEAMLESS, GALVANIZED, SHEET-METAL CAP ON CURB. INSTALL INSULATION WITH SAME R-VALUE AS ROOF BELOW CAP. INSULATION SHALL BE COMPATIBLE WITH RETURN AIR PLENUMS.
7. REMOVE MAKE-UP AIR UNIT ON ROOF AND SALVAGE TO OWNER. REPAIR ROOF AS NECESSARY TO SEAL AND INSULATE ANY OPENINGS. REMOVE ALL ASSOCIATED GAS, WATER, CONTROLS, AND ELECTRICAL CONNECTION BACK TO MAINS.
8. REMOVE UNIT HEATER AND SALVAGE TO OWNER.
9. REMOVE DRYER VENT. REPAIR ROOF AS NECESSARY TO SEAL AND INSULATE ANY OPENINGS.
10. REMOVE CEILING MOUNTED EXHAUST FAN AND ALL ASSOCIATED DUCTWORK AND ELECTRICAL. REPAIR ROOF AS NECESSARY TO SEAL AND INSULATE ANY OPENINGS.
11. REMOVE EXISTING HEATING HOT WATER PIPING.
12. REMOVE SHEET-METAL TRANSFER AIR OPENING IN WALL.
13. REMOVE MAKE-UP AIR UNIT AND EXHAUST FAN CONTROL PANEL AND SALVAGE TO OWNER.
14. REMOVE VAV BOX AND STORE IN SAFE LOCATION FOR RE-INSTALLATION.
15. REMOVE ROOFTOP UNIT CONTROL BOX AND THERMOSTAT. STORE IN SAFE PLACE FOR RE-LOCATION.
16. REMOVE WALK IN COOLER/FREEZER CONDENSING UNIT AND SALVAGE TO OWNER.
17. REMOVE EXISTING DRYER VENT.
18. REMOVE DUCTWORK AND SIDEWALL REGISTERS.

GENERAL NOTES

ITEMS TO REMOVED SHALL BE DISPOSED OF PROPERLY UNLESS OTHERWISE NOTED. REMOVAL OF ANY PIECE OF EQUIPMENT SHALL BE INTERPRETED AS COMPLETE REMOVAL OF ALL ASSOCIATED PIPING BACK TO THE MAIN(S), DUCTWORK BACK TO MAINS, CONTROLS, CONTROL WIRING BACK TO PANEL, PNEUMATIC TUBING (WHERE APPLICABLE), ELECTRICAL WIRING BACK TO PANEL, AND CONDUIT TO BEHIND NEAREST AREA OUT OF SIGHT. DEVICES REMOVED FROM SYSTEMS TO REMAIN IN OPERATION SHALL BE PLUGGED OR CAPPED TO MAINTAIN SYSTEM OPERATION. HOLES, DEPRESSIONS, AND OTHER VOIDS MADE BY THE REMOVAL OF ITEMS SHALL BE REPAIRED.

COORDINATE CAREFULLY WITH M101 SHEETS.

UVU WEST CAMPUS REMODEL
FIRST FLOOR MECHANICAL DEMO - A

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

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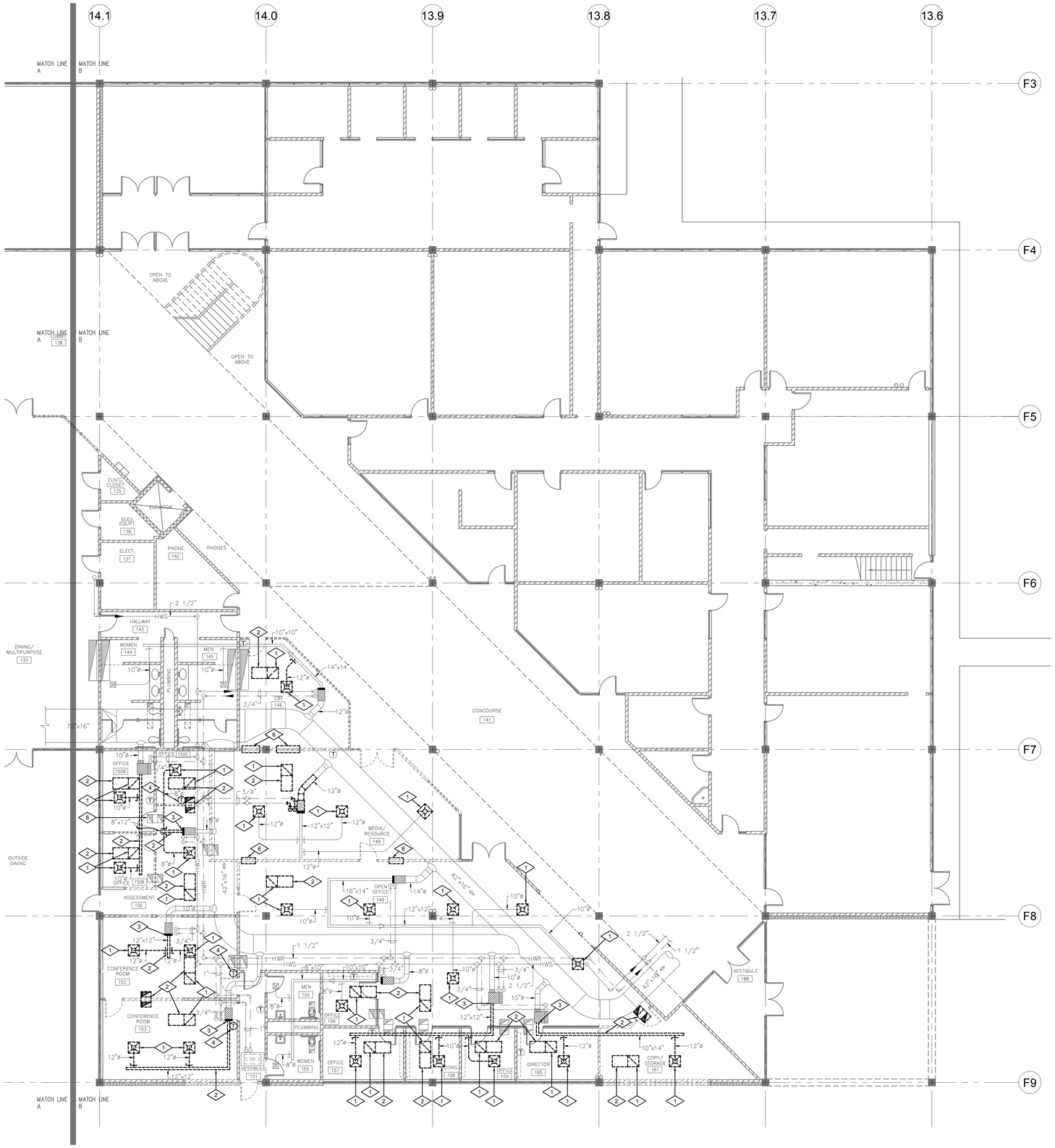
CHECKED BY:	J.M.S.
DESIGNED BY:	J.A.B.
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

FIRST FLOOR
MECHANICAL DEMO
AREA - A

MD-101A

-



REFERENCE NOTES

1. REMOVE DIFFUSER OR GRILLE IN CEILING. REMOVE FLEX DUCT WHERE APPLICABLE.
2. REMOVE DUCTWORK ABOVE CEILING.
3. DISCONNECT FROM EXISTING SYSTEM.
4. REMOVE WALL MOUNTED THERMOSTAT.
5. REMOVE EXISTING HEATING HOT WATER PIPING ABOVE CEILING.
6. REMOVE SHEET-METAL TRANSFER AIR OPENING IN WALL.
7. REMOVE VAV BOX AND STORE IN SAFE LOCATION FOR RE-INSTALLATION.
8. ALTERNATE #1. REMOVE TRANSFER AIR DUCT.

GENERAL NOTES

ITEMS TO REMOVED SHALL BE DISPOSED OF PROPERLY UNLESS OTHERWISE NOTED. REMOVAL OF ANY PIECE OF EQUIPMENT SHALL BE INTERPRETED AS COMPLETE REMOVAL OF ALL ASSOCIATED PIPING BACK TO THE MAIN(S), DUCTWORK BACK TO MAINS, CONTROLS, CONTROL WIRING BACK TO PANEL, PNEUMATIC TUBING (WHERE APPLICABLE), ELECTRICAL WIRING BACK TO PANEL, AND CONDUIT TO BEHIND NEAREST AREA OUT OF SIGHT. DEVICES REMOVED FROM SYSTEMS TO REMAIN IN OPERATION SHALL BE PLUGGED OR CAPPED TO MAINTAIN SYSTEM OPERATION. HOLES, DEPRESSIONS, AND OTHER VOIDS MADE BY THE REMOVAL OF ITEMS SHALL BE REPAIRED.

COORDINATE CAREFULLY WITH M101 SHEETS.

UVU WEST CAMPUS REMODEL
FIRST FLOOR MECHANICAL DEMO - B

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

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SHEET TITLE

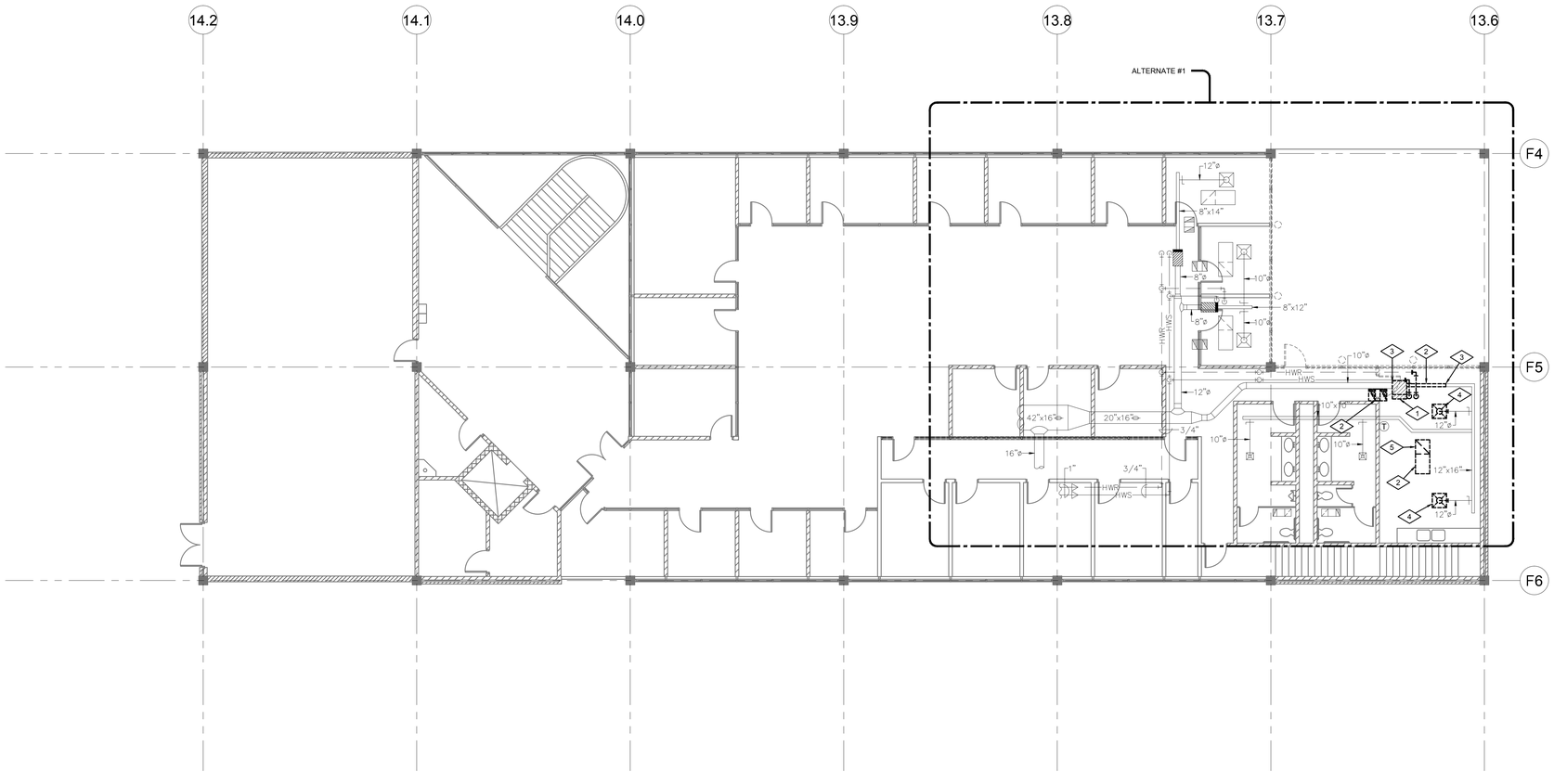
FIRST FLOOR
MECHANICAL DEMO
AREA - B

MD-101B

-

MECHANICAL LEGEND

HEATING HOT WATER SUPPLY PIPING	HWS
HEATING HOT WATER RETURN PIPING	HWR
COLD WATER	
HOT WATER	
HOT WATER RE-CIRC	
ROOF DRAIN PIPING	RD
SECONDARY ROOF DRAIN PIPING	SRD
GAS	G
BALL VALVE	
UNION	
CHECK VALVE	
CALIBRATED BALANCING VALVE	
PIPING DROP	
PIPING RISE	
DIFFUSER	
RETURN GRILLE	
VAV BOX WITH RE-HEAT	
FLEXIBLE DUCT (MAX 5'-0")	
TURNING VANES	
BALANCING DAMPER	
DUCT RISE	
DUCT DROP	
TEMPERATURE SENSOR	T
FLOOR CLEANOUT (FCO)	
CLEANOUT TO GRADE (COTG)	



REFERENCE NOTES

1. REMOVE VAV BOX AND ASSOCIATED PIPING AND STORE IN SAFE LOCATION FOR RE-INSTALLATION.
2. REMOVE DUCT ABOVE CEILING.
3. DISCONNECT DUCTWORK.
4. REMOVE DIFFUSER AND FLEX DUCT.
5. REMOVE RETURN GRILLE.

GENERAL NOTES

ITEMS TO REMOVED SHALL BE DISPOSED OF PROPERLY UNLESS OTHERWISE NOTED. REMOVAL OF ANY PIECE OF EQUIPMENT SHALL BE INTERPRETED AS COMPLETE REMOVAL OF ALL ASSOCIATED PIPING BACK TO THE MAIN(S), DUCTWORK BACK TO MAINS, CONTROLS, CONTROL WIRING BACK TO PANEL, PNEUMATIC TUBING (WHERE APPLICABLE), ELECTRICAL WIRING BACK TO PANEL, AND CONDUIT TO BEHIND NEAREST AREA OUT OF SIGHT. DEVICES REMOVED FROM SYSTEMS TO REMAIN IN OPERATION SHALL BE PLUGGED OR CAPPED TO MAINTAIN SYSTEM OPERATION. HOLES, DEPRESSIONS, AND OTHER VOIDS MADE BY THE REMOVAL OF ITEMS SHALL BE REPAIRED.

COORDINATE CAREFULLY WITH M101 SHEETS.

UVU WEST CAMPUS REMODEL

SECOND FLOOR MECHANICAL DEMO - C - ALTERNATE #1

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

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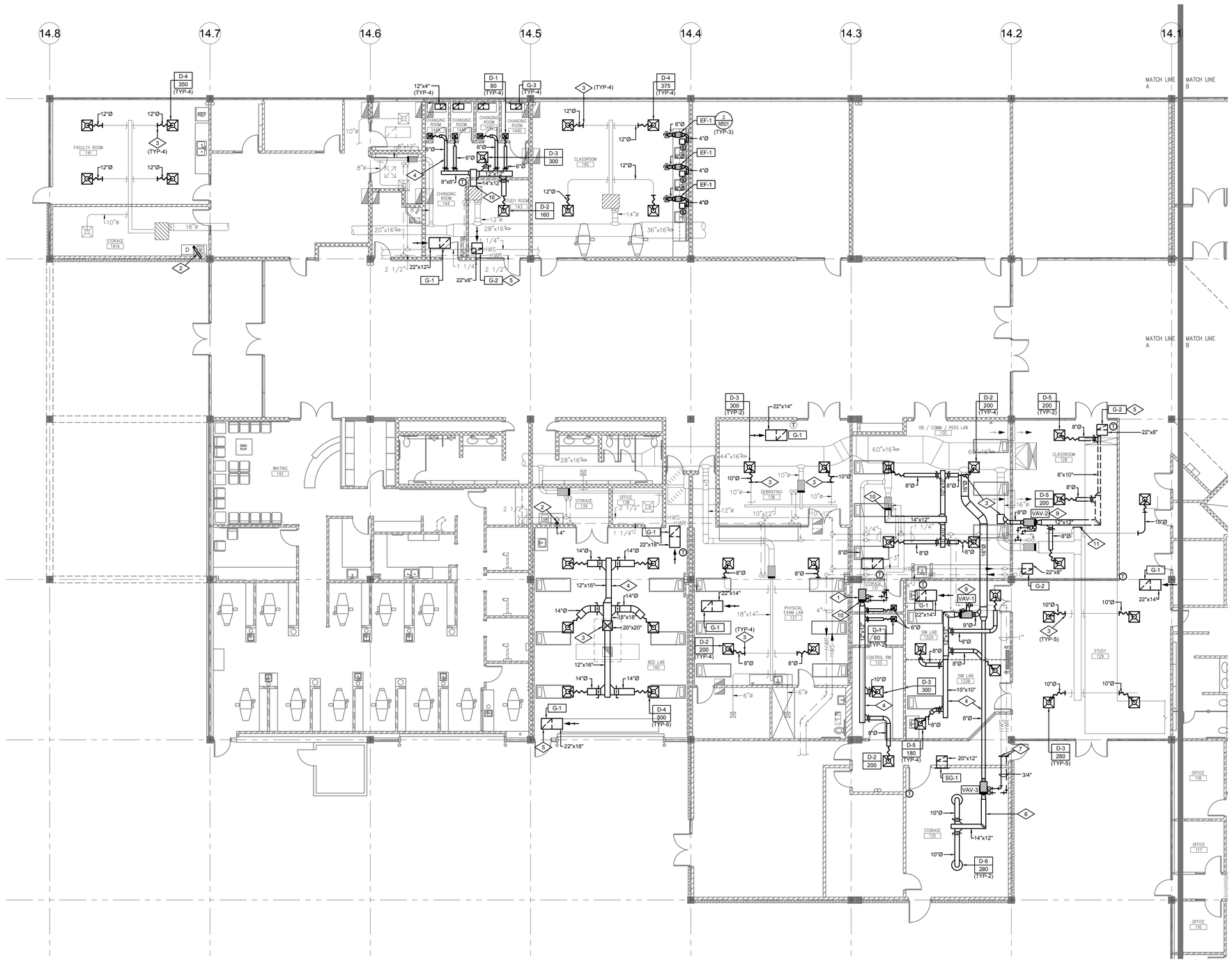
SHEET TITLE

SECOND FLOOR MECHANICAL DEMO AREA - C

MD-101C



REFERENCE NOTES

1. RELOCATE VAV BOX TO THIS ROOM. EXTEND 3/4" HWS AND HWR PIPING TO BOX.
2. 4"Ø ALUMINUM DRYER VENT. TERMINATE THRU ROOF IN GOOSENECK.
3. CONNECT TO EXISTING DUCTWORK.
4. DUCTWORK TO RUN ABOVE CEILING (TYPICAL).
5. RETURN AIR GRILLE WITH SOUND BOOT. SEE DETAIL 6/M501. (TYPICAL).
6. DUCTWORK TO RUN EXPOSED, AS HIGH AS POSSIBLE, TIGHT AGAINST STRUCTURE. DUCTWORK TO BE FREE FROM BLEMISHES IN PREPARATION FOR PAINTING.
7. CONNECT TO EXISTING PIPING.
8. RUN HHW PIPING ABOVE CEILING.
9. CONNECT TO EXISTING PIPING AND RUN 1" PIPING TO REHEAT COIL.
10. CONNECT TO EXISTING VAV BOX.
11. CAP EXISTING DUCTWORK.

UVU WEST CAMPUS REMODEL
FIRST FLOOR MECHANICAL PLAN - A

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

N

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UTAH VALLEY UNIVERSITY
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MARK	DATE	DESCRIPTION

DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	
DRAWN BY:	STAFF
CHECKED BY:	J.M.S.
DESIGNED BY:	J.A.B.
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

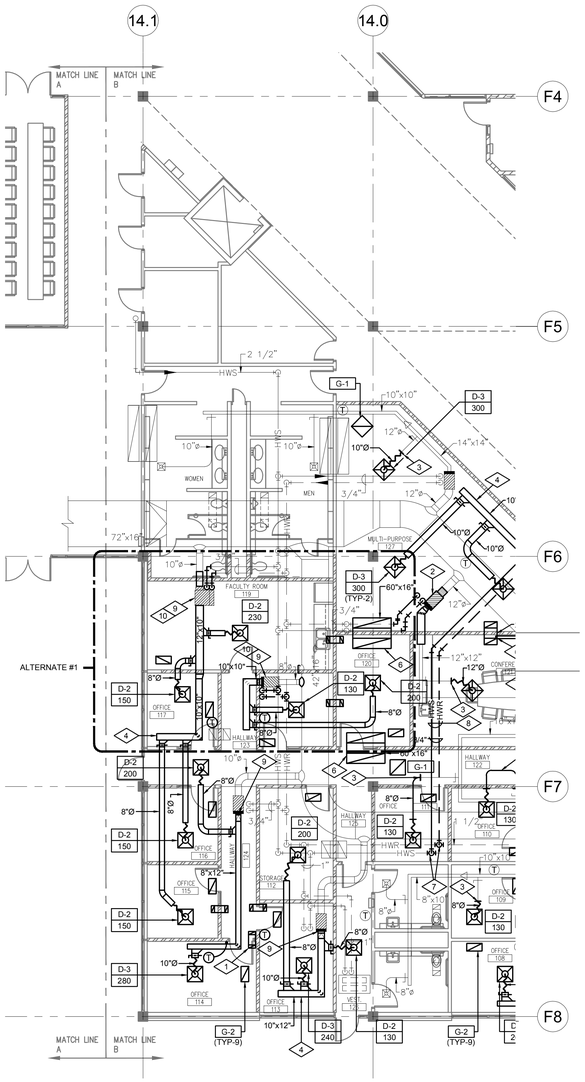
SHEET TITLE

FIRST FLOOR
MECHANICAL PLAN
AREA - A

M-101A

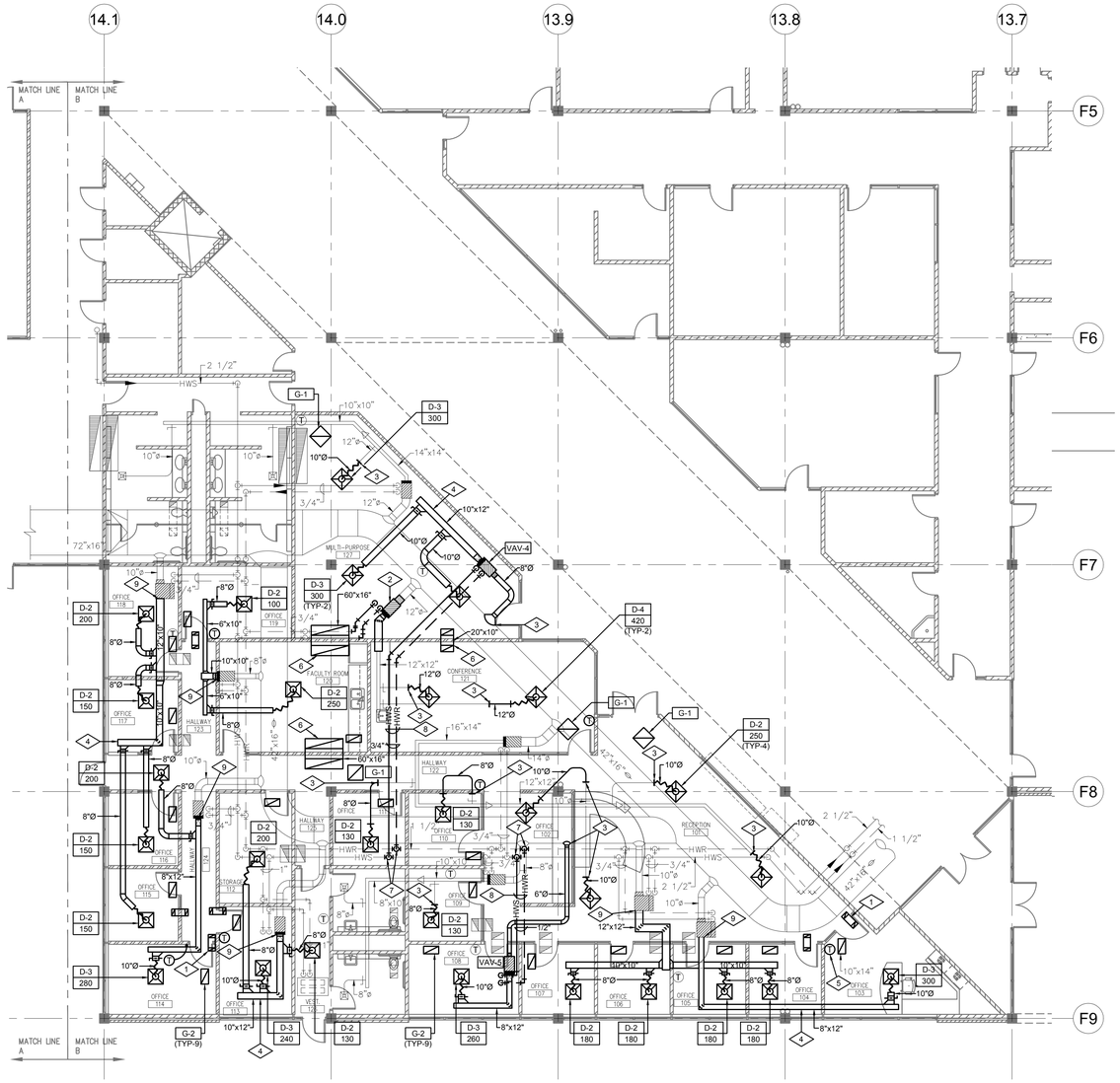
REFERENCE NOTES

1. 12"x8" TRANSFER AIR GRILLE. TYPICAL EXCEPT WHERE NOTED. SEE DETAIL 7/M501.
2. RELOCATE VAV BOX TO THIS ROOM. EXTEND 3/4" HWS AND HWR PIPING TO NEW BOX LOCATION.
3. CONNECT TO EXISTING DUCTWORK.
4. DUCTWORK TO RUN ABOVE CEILING (TYPICAL).
5. NEW WALL MOUNTED TEMPERATURE SENSOR. (TYPICAL)
6. TRANSFER AIR BOOT. SEE DETAIL 7/M501. (TYPICAL)
7. CONNECT TO EXISTING PIPING.
8. RUN HHW PIPING ABOVE CEILING.
9. CONNECT TO EXISTING VAV BOX.
10. MOVE EXISTING VAV BOX AS NECESSARY FOR NEW CONSTRUCTION. CAP EXISTING MED PRESSURE DUCT AND HEATING HOT WATER TAKE-OFFS. PROVIDE NEW TAKE-OFFS AS NECESSARY.



UVU WEST CAMPUS REMODEL
ALTERNATE #1

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



UVU WEST CAMPUS REMODEL
FIRST FLOOR MECHANICAL PLAN - B

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

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SHEET TITLE

FIRST FLOOR MECHANICAL PLAN AREA - B

M-101B

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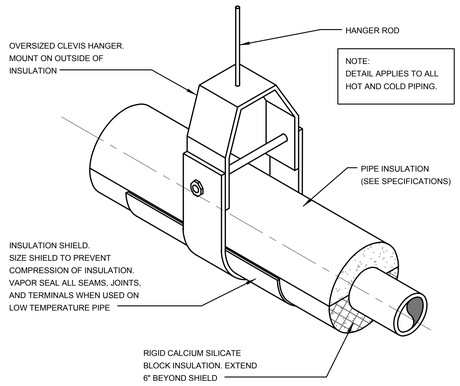
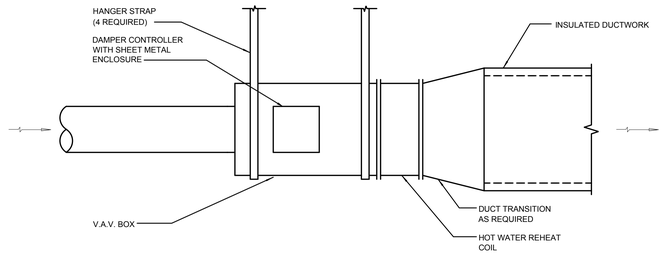
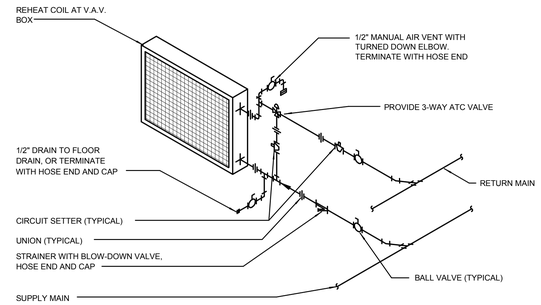


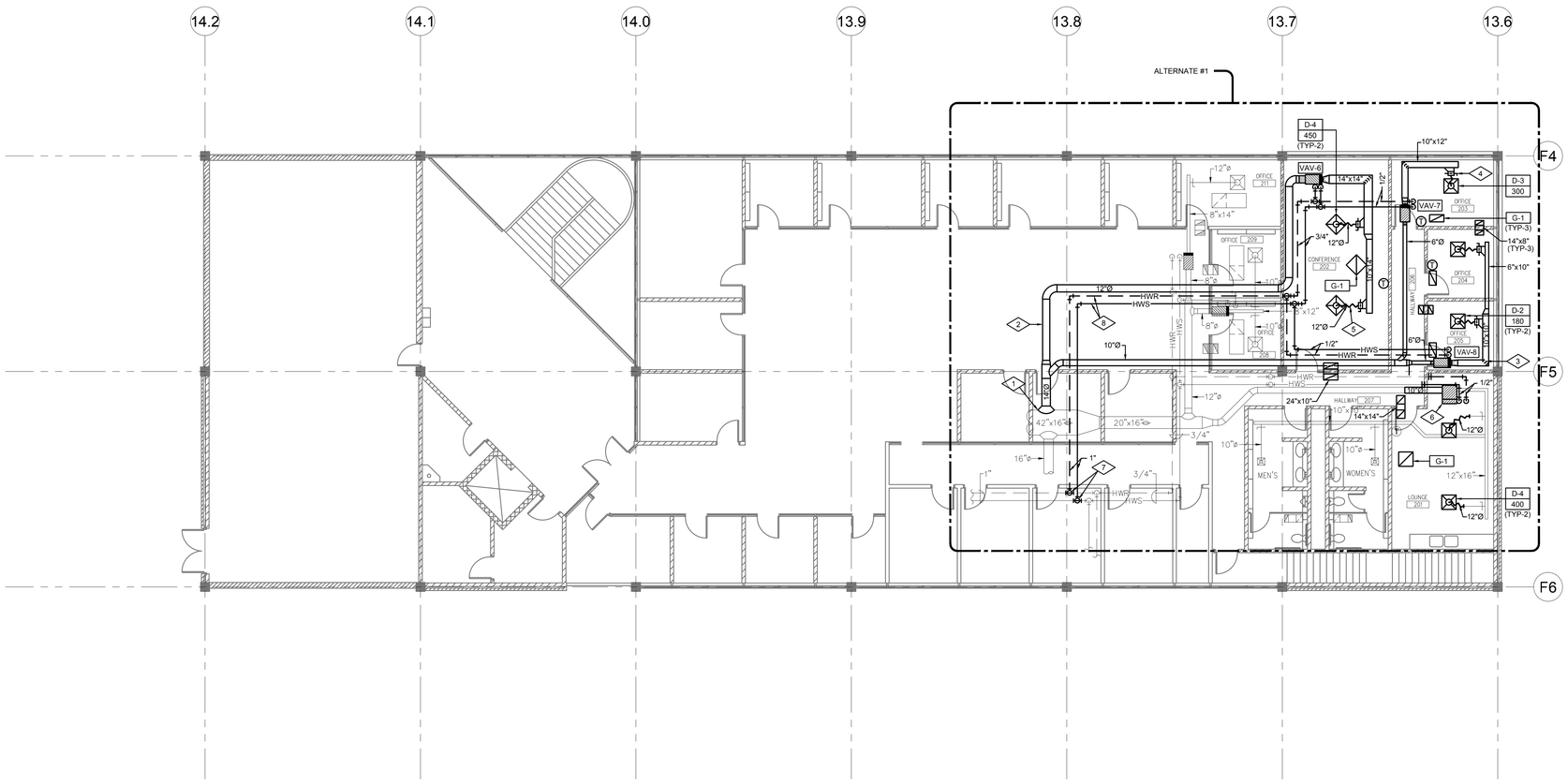
PIPE SUPPORT DETAIL (3 / M101C)
NOT TO SCALE



VAV REHEAT BOX DETAIL (2 / M101C)
NOT TO SCALE



REHEAT COIL PIPING DETAIL (1 / M101C)
NOT TO SCALE



REFERENCE NOTES

1. CONNECT TO EXISTING MEDIUM PRESSURE DUCTWORK. USE BELL MOUTH OR HIGH EFFICIENCY FITTING.
2. DUCTWORK TO RUN ABOVE CEILING (TYPICAL).
3. TURNING VANES (TYPICAL).
4. BALANCING DAMPER (TYPICAL).
5. FLEXIBLE DUCT (TYPICAL).
6. MOVE VAV BOX INTO CLASSROOM. EXTEND MEDIUM PRESSURE DUCT AND HEATING HOT WATER PIPING TO BOX. DIV. 16 TO EXTEND ELECTRICAL.
7. CONNECT TO EXISTING PIPING.
8. RUN PIPING ABOVE CEILING.

UVU WEST CAMPUS REMODEL
SECOND FLOOR MECHANICAL PLAN - C - ALTERNATE #1

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

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SHEET TITLE
SECOND FLOOR MECHANICAL PLAN AREA - C

M-101C
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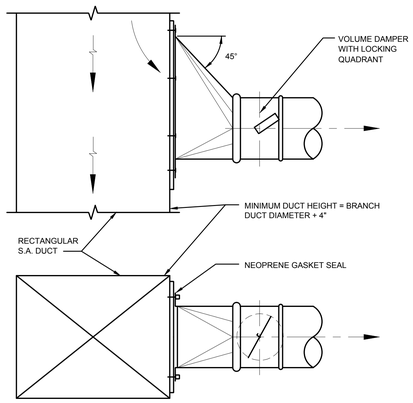
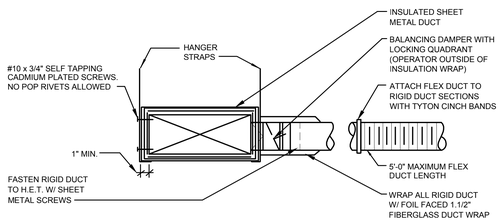


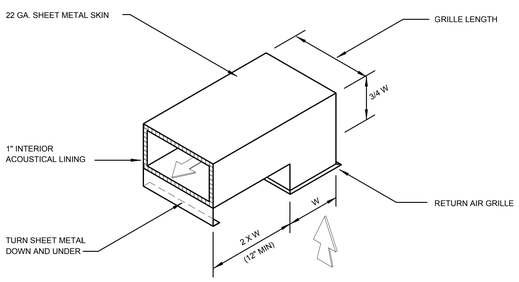
45° HIGH EFFICIENCY DUCT TAKE-OFF

NOT TO SCALE — 6-100d — 4 / M501



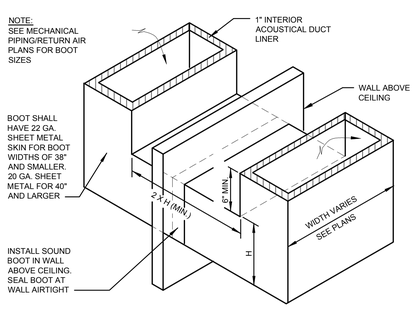
FLEX DUCT WITH H.E.T. FITTING

NOT TO SCALE — 6-104M — 5 / M501



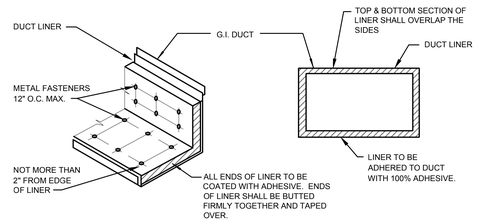
SOUND BOOT DETAIL

NOT TO SCALE — 6-108c — 6 / M501



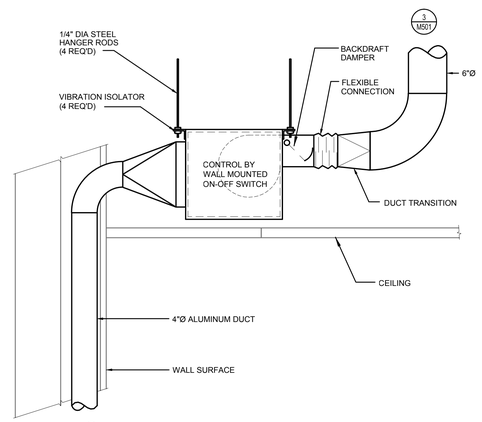
RETURN AIR SOUND BOOT DETAIL

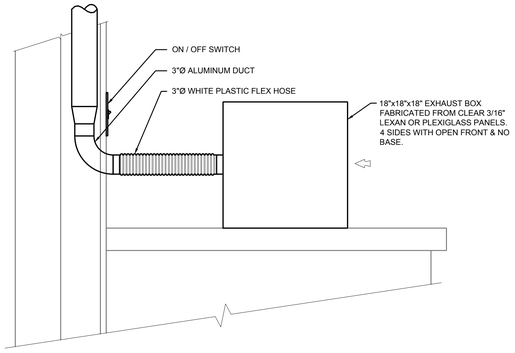
NOT TO SCALE — 6-113 — 7 / M501



DUCT LINER DETAIL

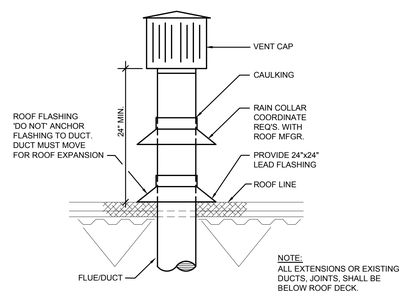
NOT TO SCALE — 6-106 — 1 / M501





EXHAUST FAN DETAIL

NOT TO SCALE — 8-107c — 2 / M501



TYPICAL FLUE/DUCT PENETRATION AT ROOF DETAIL

NOT TO SCALE — 8-131 — 3 / M501

DIFFUSER SCHEDULE

SYMBOL	TYPE	NECK SIZE	LOCATION	AIR PATTERN	MAKE & MODEL (2)
D-1 CFM	LOUVERED	6"Ø	CEILING	2 - WAY CORNER	PRICE SMD (1)
D-2 CFM	LOUVERED	8"Ø	CEILING	4 - WAY	PRICE SMD (1)
D-3 CFM	LOUVERED	10"Ø	CEILING	4 - WAY	PRICE SMD (1)
D-4 CFM	LOUVERED	12"Ø	CEILING	4 - WAY	PRICE SMD (1)
D-5 CFM	LOUVERED	8"Ø	CEILING	2 - WAY CORNER	PRICE SMD (1)
D-6 CFM	ROUND - PLAQUE	10"Ø	DUCT MOUNTED	ALL WAY	PRICE RPD

NOTES:
(1) PROVIDE FRAME FOR MOUNTING IN LAY-IN OR GYP BOARD CEILING AS NECESSRY.
(2) COLOR TO BE BRIGHT WHITE.

REGISTER & GRILLE SCHEDULE

SYMBOL	SIZE	LOCATION	TYPE	MAKE & MODEL (1)(2)
G-1	22"x22"	CEILING	LOUVERED RETURN	PRICE -- 530
G-2	22"x12"	CEILING	LOUVERED RETURN	PRICE -- 530
G-3	12"x12"	CEILING	LOUVERED RETURN	PRICE -- 530
SG-1	20" x 12"	SIDE WALL	LOUVERED RETURN	PRICE -- 530

NOTES:
(1) PROVIDE FRAME FOR MOUNTING IN LAY-IN OR GYP BOARD CEILING AS NECESSRY.
(2) COLOR TO BE BRIGHT WHITE.

EXHAUST FAN SCHEDULE

SYMBOL	TYPE	C.F.M	S.P.	R.P.M.	MOTOR	DRIVE	MAKE & MODEL
EF-1	IN-LINE EXHAUST	120	0.5"	1075	172 WATTS 115/1/60	DIRECT	COOK - GN420 (IN-LINE) (1)

NOTES:
(1) WITH INTEGRAL BACK-DRAFT DAMPER.

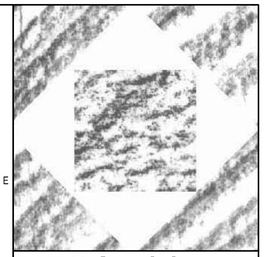
15-103a

V.A.V. BOX SCHEDULE

SYMBOL	COOLING C.F.M.	HEATING C.F.M.	BOX INLET	RE-HEAT COIL MBH	GPM	ROWS	W.P.D.	MAKE & MODEL
VAV-1	720	430	9"Ø	42.3	4.0	2	2.19 FT	TITUS DESV
VAV-2	600	360	8"Ø	28.1	3.0	2	2.32 FT	TITUS DESV
VAV-3	560	340	7"Ø	28.1	3.0	2	2.32 FT	TITUS DESV
VAV-4	600	360	8"Ø	28.1	3.0	2	2.32 FT	TITUS DESV
VAV-5	260	160	5"Ø	8.6	1.0	1	1.69 FT	TITUS DESV
VAV-6	900	540	9"Ø	22.0	2.0	1	0.68	TITUS DESV
VAV-7	300	180	6"Ø	8.6	1.0	1	1.69 FT	TITUS DESV
VAV-8	360	220	6"Ø	8.6	1.0	1	1.69 FT	TITUS DESV

15-102a

NOTES:
(1) VAV AND COIL CONTROL SHALL BE ACCESSED FROM SAME SIDE OF BOX. SEE PLAN FOR RIGHT OR LEFT HAND COIL CONNECTIONS.
(2) CAPACITIES BASED ON 55 DEG.F. ENTERING AIR TEMP., 180 DEG.F. ENTERING WATER TEMP WITH 20 DEG.F. WATER TEMP. DROP. & 30% PROPYLENE GLYCOL SOLUTION
(3) COORDINATE CONTROL MOUNTING WITH ATC CONTRACTOR.



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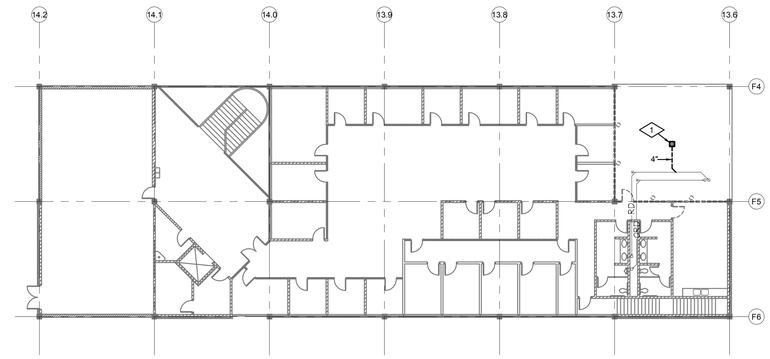
SHEET TITLE
MECHANICAL SCHEDULES & DETAILS

M-501

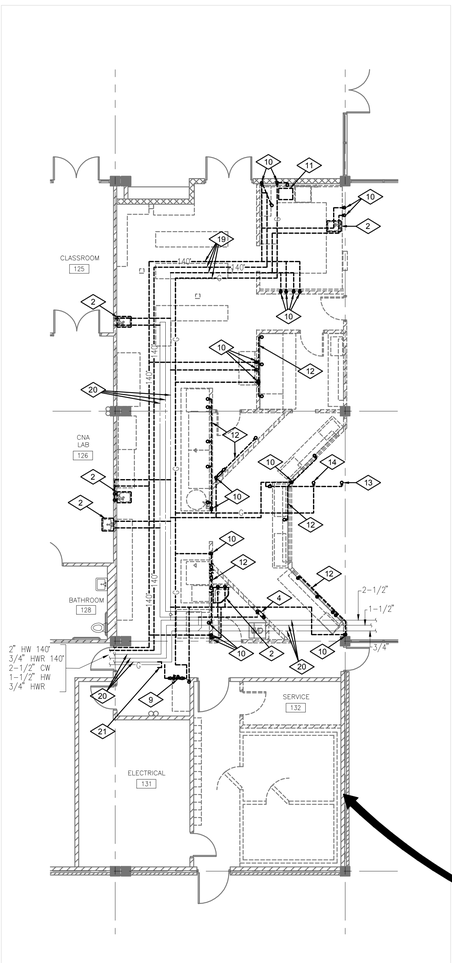
REFERENCE NOTES

1. REMOVE PORCH DRAIN AND ASSOCIATED PIPING BELOW FLOOR. CAP PIPING AT MAIN.
2. REMOVE EXISTING SINK AND ASSOCIATED SUPPLIES. CAP PIPING AT WALL WHERE NEW WALL IS TO BE FURRED OUT AND IN WALL WHERE NO NEW WALL IS FURRED OUT.
3. REMOVE EXISTING AIR AND NATURAL GAS CONNECTIONS AND DROPS. CAP PIPING UP HIGH, AT MAIN.
4. REMOVE EXISTING CLOTHES WASHER CONNECTIONS AND STANDPIPE AND ALL ASSOCIATED PIPING. CAP PIPING AT MAINS.
5. REMOVE EXISTING FLOOR DRAIN. REMOVE PIPING TO BELOW SLAB. PLUG PIPING WITH 6" CONCRETE MINIMUM AND SEAL AIR TIGHT.
6. REMOVE EXISTING FLOOR SINK. REMOVE PIPING TO BELOW SLAB. PLUG PIPING WITH 6" CONCRETE MINIMUM AND SEAL AIR TIGHT.
7. REMOVE EXISTING HOSE BIBB AND PIPE BACK TO VALVE ABOVE CEILING. PATCH HOLE TO MATCH EXISTING.
8. REMOVE EXISTING CLEANOUT IN WALL AND ASSOCIATED PIPE TO BELOW FLOOR. PLUG PIPING WITH 6" CONCRETE MINIMUM AND SEAL AIR TIGHT.
9. REMOVE EXISTING GAS VALVE AND PRESSURE REGULATOR BELOW CEILING. REMOVE ALL ASSOCIATED CONTROL WIRING AND SHUT-OFF SWITCH.
10. REMOVE EXISTING PIPING DROP AND CAP ABOVE CEILING.
11. REMOVE EXISTING BOOSTER HEATER AND SALVAGE TO DISTRICT.
12. REMOVE EXISTING PIPING LOW IN WALL.
13. REMOVE COLD WATER PIPING TO MAKE-UP AIR UNIT. CAP PIPING AT VALVE IN MAIN. PATCH HOLE IN ROOF.
14. REMOVE GAS PIPING TO MAKE-UP AIR UNIT. CAP PIPING ABOVE CEILING. PATCH HOLE IN ROOF.
15. REMOVE EXISTING VENT PIPING IN WALL. CAP AT MAIN ABOVE CEILING. REMOVE PIPING TO BELOW FLOOR AND FILL WITH 6" CONCRETE MINIMUM AND SEAL AIR TIGHT.
16. REMOVE EXISTING VENT PIPING ABOVE CEILING.
17. VENT THROUGH ROOF TO REMAIN.
18. REMOVE VENT THRU ROOF. PATCH HOLE IN ROOF.
19. REMOVE EXISTING PIPING ABOVE CEILING.
20. EXISTING PIPING TO REMAIN.
21. CAP GAS PIPING ABOVE CEILING.
22. REMOVE ALL 140° HOT WATER AND HOT WATER RE-CIRC PIPING.
23. REMOVE 140° HOT WATER HEATER AND ALL ASSOCIATED PIPING, ELECTRICAL, RE-CIRC PUMP, AND EXPANSION TANK. CAP GAS PIPING AT MAIN. CAP COLD WATER PIPING AT MAIN. SALVAGE WATER HEATER AND EXPANSION TANK TO OWNER.
24. ALTERNATE #1. REMOVE WATER CLOSET, SUPPLY, WASTE LINE AND CARRIER.



UVU WEST CAMPUS REMODEL
SECOND FLOOR PLUMBING DEMOLITION

SCALE: 1/16" = 1'-0"



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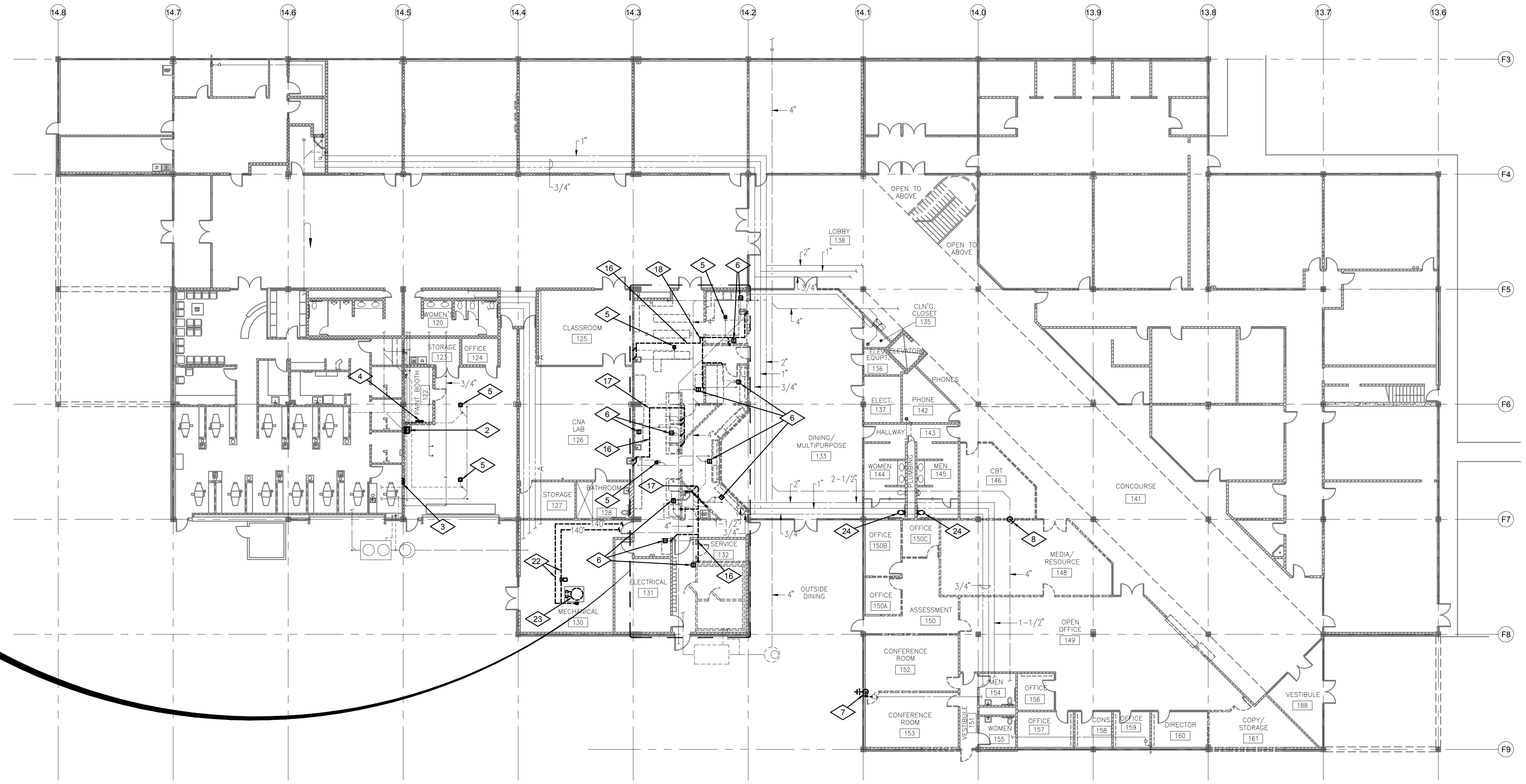

UVU WEST CAMPUS REMODEL
FIRST FLOOR PLUMBING DEMOLITION

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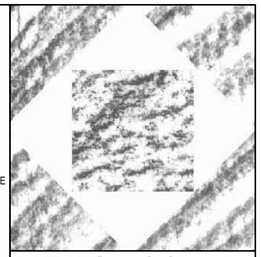

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PLUMBING DEMOLITION

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PD-101

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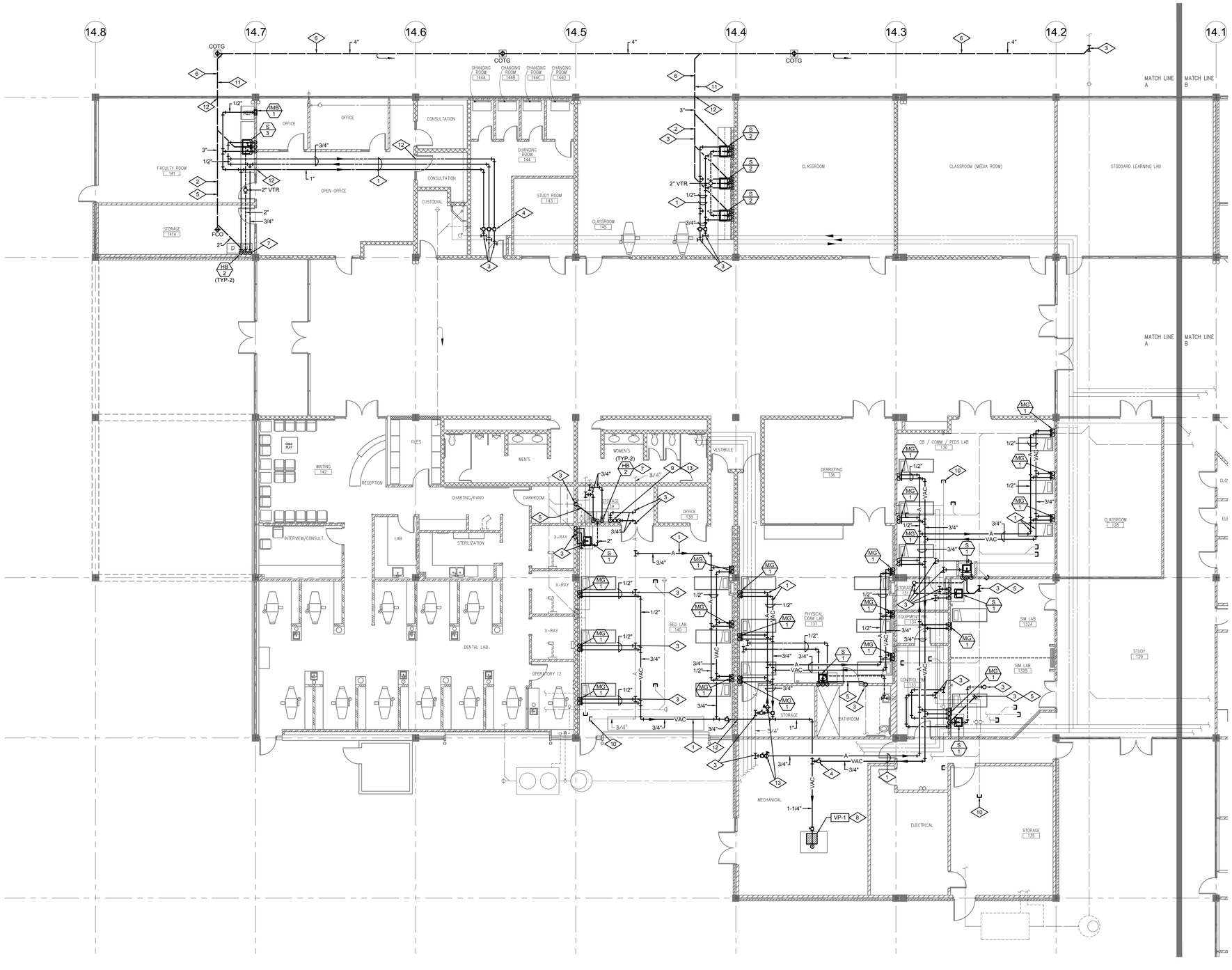

REFERENCE NOTES

1. RUN PIPING ABOVE CEILING (TYPICAL).
2. RUN PIPING BELOW FLOOR SLAB (TYPICAL).
3. CONNECT TO EXISTING PIPING.
4. LINE SIZE BALL VALVE SHUT-OFF (TYPICAL).
5. SAWCUT FLOOR FOR INSTALLATION OF NEW WASTE PIPING. EXCAVATE, BACKFILL, AND POUR CONCRETE TO REPAIR FLOOR.
6. EXCAVATE TRENCH FOR INSTALLATION OF NEW PIPING. BACKFILL WITH 4" SAND BED AROUND PIPING AND COMPACT. REPAIR SOD TO MATCH EXISTING.
7. PROVIDE STANDPIPE AND HOSE-BIBBS 'HB-2' FOR CLOTHES WASHER.
8. NEW VACUUM PUMP TO BE INSTALLED ON CONCRETE PAD LEFT FROM KITCHEN 140" WATER HEATER. PROVIDE SHUT-OFF VALVE AND UNION IN PIPING. PIPE DRAIN IN 1-1/4" COPPER TO NEAREST FLOOR DRAIN.
9. INSTALL BALL VALVE SHUT-OFF 48" A.F.F.
10. CAP OR PLUG EXISTING PIPING. (TYPICAL)
11. REPAIR SIDEWALK AS NECESSARY FOR INSTALLATION OF PIPING.
12. CORE-DRILL PIPING PENETRATIONS. OVERSIZE TO ACCOMMODATE PIPING INSULATION WHERE APPLICABLE.
13. PROVIDE PRESSURE REGULATOR ADJACENT TO VALVE IN AIR PIPING.

UVU WEST CAMPUS REMODEL
FIRST FLOOR PLUMBING PLAN - A

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

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SHEET TITLE

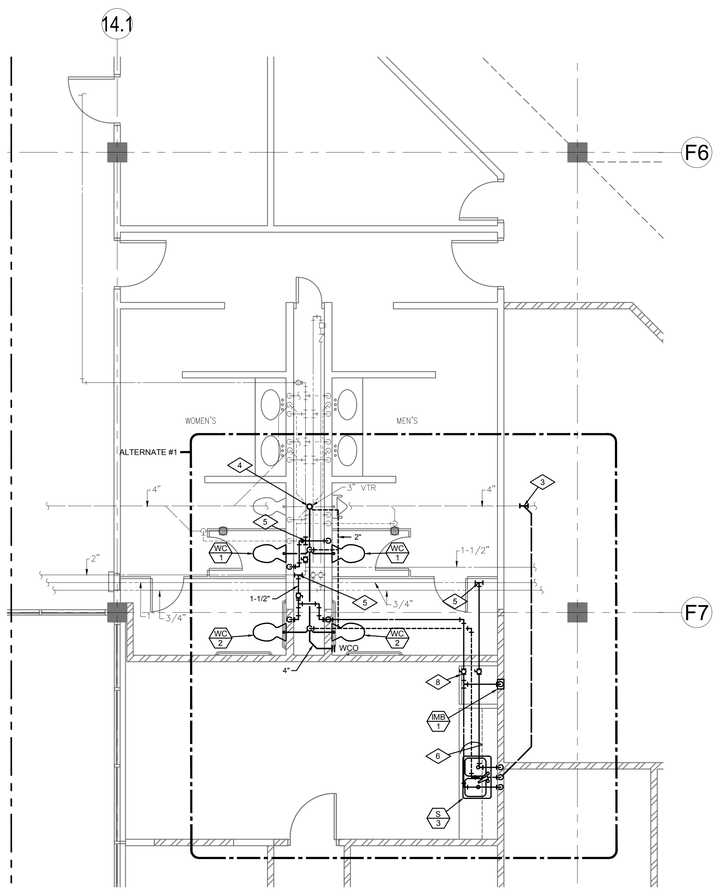
FIRST FLOOR
PLUMBING PLAN
AREA - A

P-101A

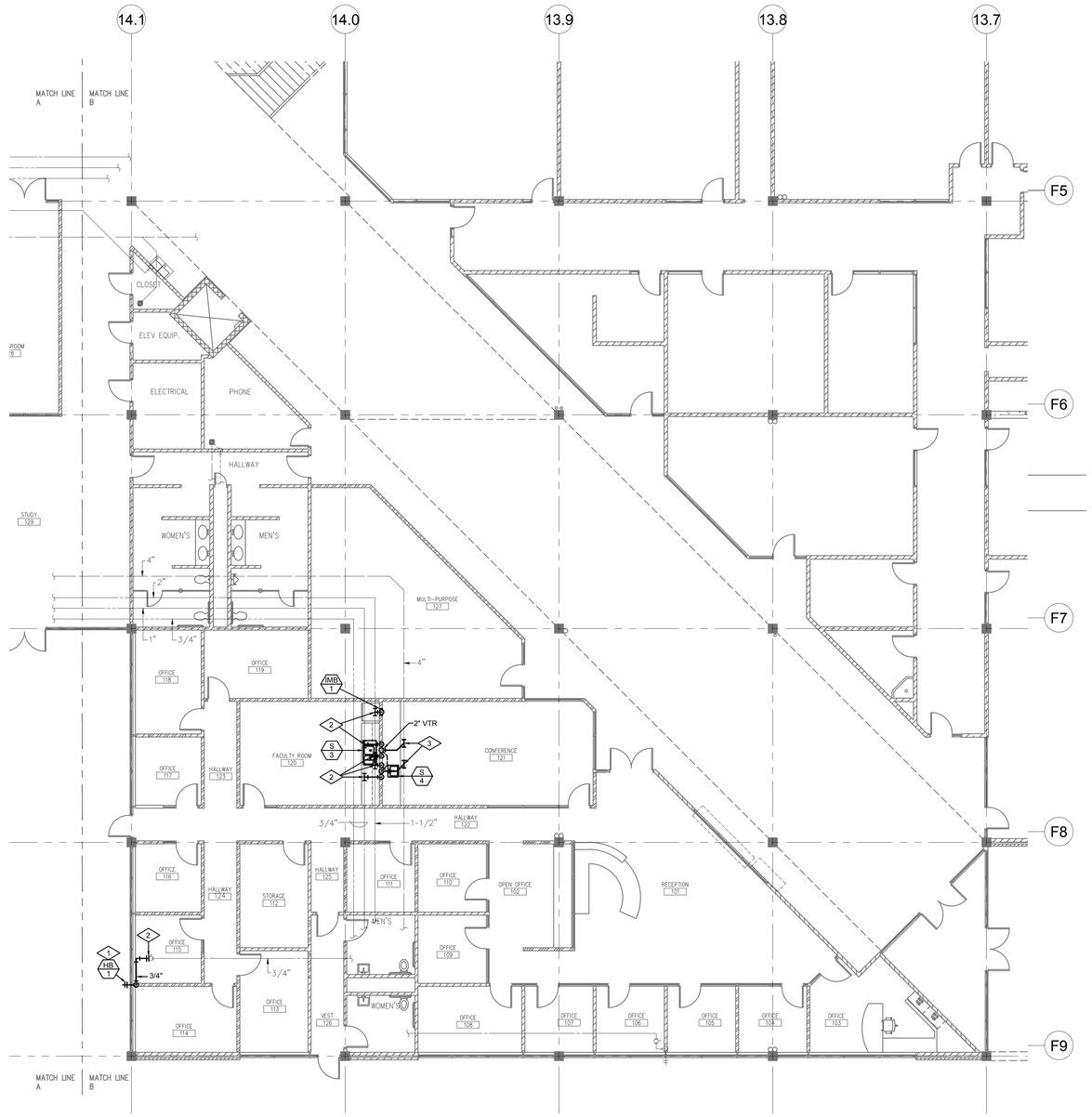
-

REFERENCE NOTES

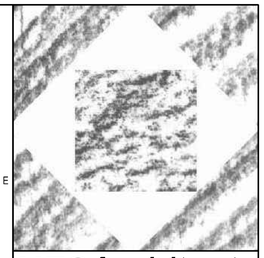
1. HOSE BIBB AT 24" A.F.G.
2. CONNECT TO EXISTING PIPING ABOVE CEILING.
3. CONNECT TO EXISTING SANITARY SEWER LINE BELOW FLOOR. SAWCUT, EXCAVATE, BACKFILL AND PATCH FLOOR AS REQUIRED FOR NEW INSTALLATION.
4. CONNECT NEW 2" VENT TO EXISTING 3" VENT THROUGH ROOF, AND CONNECT NEW 4" WASTE TO EXISTING 4" WASTE DROP. (ALTERNATE #1)
5. CONNECT TO EXISTING COLD WATER SUPPLY MAIN. PROVIDE BALL VALVE SHUT OFF. (ALTERNATE #1).
6. RUN PIPING ABOVE CEILING.
7. CONNECT TO HOT WATER PIPING (ALTERNATE #1).
8. NEW LINE SIZE BALL VALVE (TYPICAL).



UVU WEST CAMPUS REMODEL
ALTERNATE #1 - PLUMBING SCALE: 1/4" = 1'-0"



UVU WEST CAMPUS REMODEL
FIRST FLOOR PLUMBING PLAN - B SCALE: 1/8" = 1'-0"



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REGISTERED PROFESSIONAL ENGINEER # 183628 JEFFREY M. SEARE STATE OF UTAH

UTAH VALLEY UNIVERSITY
WEST CAMPUS
INTERIOR IMPROVEMENTS

UTAH VALLEY UNIVERSITY
987 SOUTH GENEVA ROAD
OREM, UTAH 84058

MARK	DATE	DESCRIPTION

DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	
DRAWN BY:	STAFF
CHECKED BY:	J.M.S.
DESIGNED BY:	J.A.B.
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

FIRST FLOOR
PLUMBING PLAN
AREA - B

P-101B

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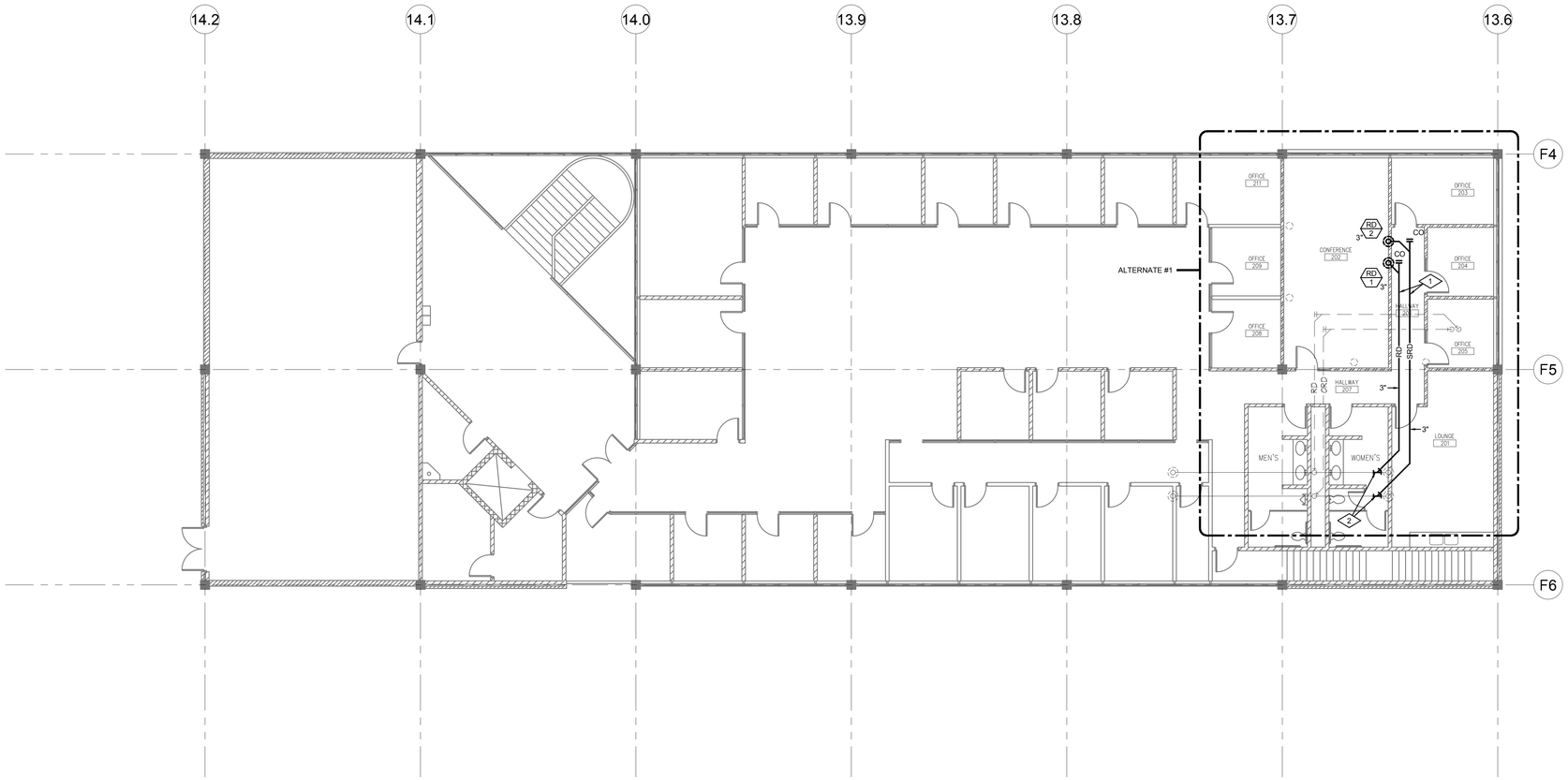

REFERENCE NOTES

1. RUN PIPING ABOVE CEILING AS HIGH AS POSSIBLE (ALTERNATE #1).
2. CONNECT TO EXISTING PIPING AT APPROXIMATELY THIS LOCATION ABOVE CEILING. (ALTERNATE #1).

UVU WEST CAMPUS REMODEL
SECOND FLOOR PLUMBING PLAN - C

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

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SHEET TITLE

SECOND FLOOR
PLUMBING PLAN
AREA - C

P-101C

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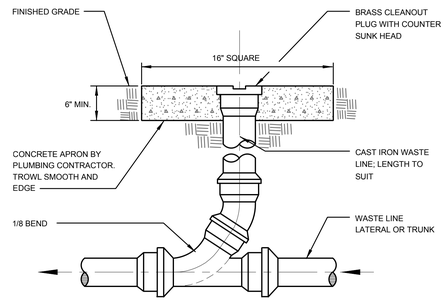


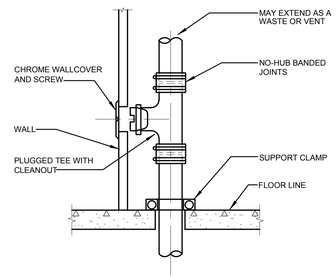
CLEANOUT TO GRADE DETAIL

NOT TO SCALE — 14-101 — 2 / P501

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	WASTE	VENT	C.W.	H.W.	NOTES
WC 1	WATER CLOSET (ALTERNATE #1)	4"	2"	1"	--	WALL MOUNTED, SENSOR OPERATED FLUSH VALVE
WC 2	WATER CLOSET (ADA) (ALTERNATE #1)	4"	2"	1"	--	SAME AS WC-1 - MOUNT AT ADA HEIGHT
S 1	SINK	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT
S 2	SINK	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT WITH CLAY TRAP
S 3	SINK	2"	1-1/2"	1/2"	1/2"	DOUBLE COMPARTMENT
S 4	SINK	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT
HB 1	HOSE BIBB	--	--	3/4"	--	FREEZE-PROOF OUTDOOR W/ INTEGRAL VACUUM BR
HB 2	HOSE BIBB	--	--	3/4"	--	INDOOR WITH INTEGRAL VACUUM BREAKER
IMB 1	ICE MAKER BOX	--	--	1/2"	--	POLYMER BOX WITH BALL VALVE SHUT-OFF
RD 1	ROOF DRAIN	--	--	--	--	SEE PLANS FOR SIZES
RD 2	SECONDARY ROOF DRAIN	--	--	--	--	SEE PLANS FOR SIZES
MG 1	MEDICAL GAS OUTLETS	--	--	--	--	AIR, OXYGEN, AND VACUUM - EACH W/ 1/2" CONNECT

15-100a



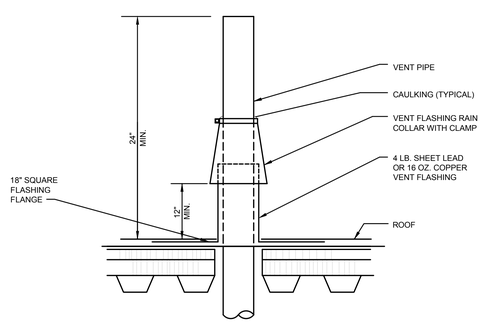
WALL CLEANOUT DETAIL

NOT TO SCALE — 14-107 — 3 / P501

PLUMBING EQUIPMENT SCHEDULE

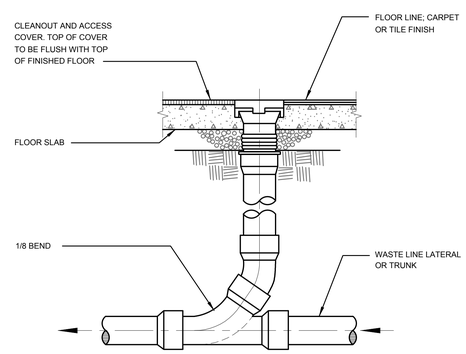
VP-1 VACUUM PUMP: VERTICAL, TANK MOUNT, SINGLE STAGE, ROTARY VANE, SIMPLEX VACUUM PUMP SYSTEM. 30 GALLON CAPACITY, 28.0 ACFM, 0.5 TORR MAXIMUM VACUUM PRESSURE (25 ACFM @ 15.0 TORR).

MANUFACTURER: ONYXX
MODEL: VR-42-VTM-1
ELECTRICAL: 2.0 HP @ 460/3/60



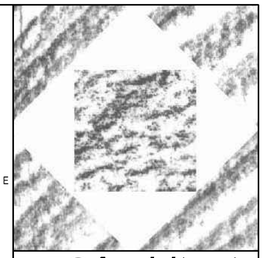
VENT THRU ROOF DETAIL

NOT TO SCALE — 6 / P6.2



FLOOR CLEANOUT DETAIL

NOT TO SCALE — 14-100 — 1 / P501



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SHEET TITLE

PLUMBING SCHEDULES & DETAILS

P-501

-

DEMOLITION NOTES

1. COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 16.
2. RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
3. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
4. LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
5. EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
6. REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
7. REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
8. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
9. DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

EQUIPMENT SCHEDULE

UNIT #	FUNCTION	LOAD	VOLT	PHASE	FULL LOAD AMPS	CONDUIT SIZE	WIRES NO. SETS	WIRES NO.	WIRES SIZE	WIRES EQUIP. GND (1)	OCPD TYPE	OCPD AMPS	REF. NOTES STARTER	REF. NOTES DISCONNECT	REF. NOTES OTHER	REMARKS
EF-1	EXHAUST FAN	172 VA	120	1	1.43	3/4"	1	2	12	12	CB	20	4A			
VP-1	VACUUM PUMP	2 HP	480	3	3.40	3/4"	1	3	12	12	Fi	6	7A			

NOTES:
1. NON-FUSED DISCONNECT SWITCH
2. FUSED DISCONNECT SWITCH
3. BREAKER IN ENCLOSURE
4. MANUAL STARTER W/THERMAL OVERLOAD
5. MAGNETIC STARTER
6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
8. MAGNETIC STARTER/BREAKER COMBINATION
9. VARIABLE FREQUENCY DRIVE
10. REDUCED VOLTAGE STARTER
11. DIRECT CONNECTION
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
13. TWO-SPEED STARTER, COORDINATE W/MOTOR TYPE
14. SOLID STATE SOFT STARTER

A. FURNISHED, INSTALLED, AND CONNECTED UNDER DIVISION 16
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 16.
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 16.
D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION.

CB = CIRCUIT BREAKER - THERMAL MAGNETIC
CKW = CHILLER KILOWATTS

NOTE 1: PER 250.123(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN PHASE CONDUCTOR.

FIXTURE SCHEDULE

UVU WEST CAMPUS

TYPE	DESCRIPTION	CATALOG NUMBER	VOLTS	LAMPS
A	2 X 4 3 LAMP T8 FLUORESCENT LAY-IN MEDICAL FIXTURE WITH ELECTRONIC BALLAST	KENALL MPCAIE24 G 1/2 32 277	277	(3) F032/835XP/ECO
B	4 FOOT 3 LAMP T8 FLUORESCENT WALL BRACKET FIXTURE WITH UP/DOWN LIGHT AND ELECTRONIC BALLASTS	LITHONIA WM 332 A12 MVOLT GEB10RS BF WH	277	(3) F032/835XP/ECO
C	2 X 4 2 LAMP T8 FLUORESCENT LAY-IN FIXTURE WITH ACRYLIC LENS AND ELECTRONIC BALLAST	LITHONIA 2SP8 G 232 FW A12/25 MVOLT GEB10RS	277	(2) F032/835XP/ECO
D	1 X 4 1 LAMP T8 FLUORESCENT LAY-IN WHITEBOARD FIXTURE WITH ELECTRONIC BALLAST	LITHONIA WW G 132 MVOLT IRLD GEB10RS	277	(1) F032/835XP/ECO
E12	12 FOOT LINEAR PENDANT FIXTURE WITH (2) T5HO LAMPS IN CROSS SECTION AND ELECTRONIC BALLAST	PEERLESS EGSAM2 2 54T5HO 12FT R8 277 GEB10 SCT ULP F1/18 C200 ACG	277	(6) F54/835HO
E16	16 FOOT LINEAR PENDANT FIXTURE WITH (2) T5HO LAMPS IN CROSS SECTION AND ELECTRONIC BALLAST	PEERLESS EGSAM2 2 54T5HO 16FT R8 277 GEB10 SCT ULP F1/18 C200 ACG	277	(8) F54/835HO
E20	20 FOOT LINEAR PENDANT FIXTURE WITH (2) T5HO LAMPS IN CROSS SECTION AND ELECTRONIC BALLAST	PEERLESS EGSAM2 2 54T5HO 20FT R8 277 GEB10 SCT ULP F1/18 C200 ACG	277	(10) F54/835HO
E20/2	20 FOOT LINEAR PENDANT FIXTURE WITH (2) T5HO LAMPS IN CROSS SECTION AND ELECTRONIC DIMMING BALLAST	PEERLESS EGSAM2 2 54T5HO 20FT R8 277 GEB10 1SE ECSCT ULP F1/18 C200 ACG ELH	277	(10) F54/835HO
E20D	20 FOOT LINEAR PENDANT FIXTURE WITH (2) T5HO LAMPS IN CROSS SECTION AND ELECTRONIC DIMMING BALLAST	PEERLESS EGSAM2 2 54T5HO 20FT R8 277 ADEZ SCT ULP F1/18 C200 ACG	277	(10) F54/835HO
E24	24 FOOT LINEAR PENDANT FIXTURE WITH (2) T5HO LAMPS IN CROSS SECTION AND ELECTRONIC BALLAST	PEERLESS EGSAM2 2 54T5HO 24FT R8 277 GEB10 SCT ULP F1/18 C200 ACG	277	(12) F54/835HO
E24D	24 FOOT LINEAR PENDANT FIXTURE WITH (2) T5HO LAMPS IN CROSS SECTION AND ELECTRONIC DIMMING BALLAST	PEERLESS EGSAM2 2 54T5HO 24FT R8 277 ADEZ SCT ULP F1/18 C200 ACG	277	(12) F54/835HO
E32	32 FOOT LINEAR PENDANT FIXTURE WITH (2) T5HO LAMPS IN CROSS SECTION AND ELECTRONIC BALLAST	PEERLESS EGSAM2 2 54T5HO 32FT R8 277 GEB10 2SE ECSCT ULP F1/18 C200 ACG ELH	277	(16) F54/835ECO
E8	8 FOOT LINEAR PENDANT FIXTURE WITH (2) T5HO LAMPS IN CROSS SECTION AND ELECTRONIC BALLAST	PEERLESS EGSAM2 2 54T5HO 8FT R8 277 GEB10 1SE EC SCT ULP F1/18 C200 ACG ELH	277	(4) F54/835HP
F8	8 FOOT LINEAR WALL MOUNTED FIXTURE WITH (1) T5HO LAMP IN CROSS SECTION AND ELECTRONIC BALLAST	PEERLESS EGAW2 1 54T5HO 8FT R8 277 GEB10 1SE EC SCT ULP C200 ELH	277	(2) F54/835HO
G	4 FOOT 2 LAMP T8 FLUORESCENT STRIP FIXTURE WITH ELECTRONIC BALLAST	LITHONIA C 232 MVOLT GEB10RS	277	(2) F032/835XP/ECO
H	2 X 4 2 LAMP T8 FLUORESCENT LAY-IN INDIRECT FIXTURE WITH ELECTRONIC BALLAST	LITHONIA 2AVG 232 MDR MVOLT GEB10RS	277	(2) F032/835XP/ECO
HD	2 X 4 2 LAMP T8 FLUORESCENT LAY-IN INDIRECT FIXTURE WITH ELECTRONIC DIMMING BALLAST	LITHONIA 2AVG 232 MDR MVOLT (ADVANCE IZT-2S332-SC)	277	(2) F032/835XP/ECO
J	26 WATT COMPACT FLUORESCENT RECESSED DOWNLIGHT WITH 6" APERTURE AND ELECTRONIC BALLAST	GOTHAM AF 1/26TRT 6 PR LD CGL MVOLT	277	(1) CFT26/835
K	2 X 4 3 LAMP T8 FLUORESCENT LAY-IN INDIRECT FIXTURE WITH ELECTRONIC BALLAST	LITHONIA 2AVG 332 MDR MVOLT GEB10RS	277	(3) F032/835XP/ECO
KD	2 X 4 3 LAMP T8 FLUORESCENT LAY-IN INDIRECT FIXTURE WITH ELECTRONIC DIMMING BALLAST	LITHONIA 2AVG 332 MDR MVOLT (ADVANCE IZT-3S332-SC)	277	(3) F032/835XP/ECO
L	4 FOOT 2 LAMP T8 FLUORESCENT STRIP FIXTURE WITH ASYMMETRIC REFLECTOR AND ELECTRONIC BALLAST	LITHONIA C 232 MVOLT GEB10RS CASR4/8	277	(2) F032/835XP/ECO
M	3 WATT LED PENDANT FIXTURE WITH TALL TULIP GLASS SHADE AND DECORATIVE CEILING CANOPY WITH LED DRIVER	CON-TECH LIGHTING CRST24/6LEDQR-W-S/ML/108-G/CRS-DQ/RCD-S	120	INCLUDED
N	32 WATT COMPACT FLUORESCENT RECESSED DOWNLIGHT WITH 6" WALLWASH APERTURE AND ELECTRONIC BALLAST	GOTHAM AFVW 32TRT 6 PR LD CGL MVOLT	277	(1) CFT32/835
P	2 X 2 2 LAMP T8 FLUORESCENT LAY-IN INDIRECT FIXTURE WITH ELECTRONIC BALLAST	LITHONIA 2AVG 217 MDR MVOLT GEB10RS	277	(2) F017/835XP/ECO
Q	LINEAR AC LED STRIP LIGHT	LUCIFER LIGHTING 2 BP C 120 S 12- 5-AC-27K PSA-60-12P	120	INCLUDED
X1	LED EXIT SIGN WITH DIE-CAST ALUMINUM HOUSING	LITHONIA L E S 1 G 120/277	277	INCLUDED
X2	DUAL FACE LED EXIT SIGN WITH DIE-CAST ALUMINUM HOUSING	LITHONIA L E S 2 G 120/277	277	INCLUDED

LIGHT FIXTURE ABBREVIATION SCHEDULE

NOTE: NOT ALL ABBREVIATIONS WILL NECESSARILY BE USED.

A.F.F.	ABOVE FINISH FLOOR
WALL@CLG	WALL MOUNT AT CORNER OF WALL AND CEILING
CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT
SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT
CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT
SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT
MOD	MODIFY STANDARD LIGHT FIXTURE AS INDICATED

LIGHT FIXTURE GENERAL NOTES

1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
3. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
4. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOUVER REQUIREMENTS AS REQUIRED.
5. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.

BIDDING REQUIREMENTS

1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED.
3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND/OR CONTRACTORS.
4. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

PRIOR APPROVAL REQUIREMENTS

1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
3. PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE SUBMITTAL AND THAT THE PRODUCTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED. ANY EXCEPTIONS SHALL BE SO NOTED.
4. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVAL WILL NOT BE GIVEN ON ANY ITEM.
5. IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.
6. PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE NOT ACCEPTABLE. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED, WITH NON-APPLICABLE INFORMATION CROSSED OUT. COMPLETE PHOTOMETRIC DATA SHALL BE PROVIDED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL NOT BE APPROVED.
7. SUPPLY POINT-BY-POINTS AS REQUIRED BY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
8. SAMPLE FIXTURES MUST BE SUPPLIED WITH A CORD, PLUG AND 120V BALLAST.

LIGHTING SHOP DRAWING REQUIREMENTS

1. REFER TO SPECIFICATIONS 16001, 16510 & 16551.
2. MUST INCLUDE BALLAST AND LAMP CUT SHEETS.
3. LINEAR LIGHTING MUST INCLUDE DETAILED DRAWINGS WITH SUPPORT DETAILS, STEM LOCATIONS AND HAVE ALL LENGTHS IDENTIFIED WITH STEM LOCATIONS.
4. COLOR SAMPLES MUST BE INCLUDED IN FIRST SUBMITTAL.
5. CUT SHEETS MUST BE STAMPED WITH THE FACTORY REPRESENTATIVE'S COMPANY NAME.
6. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, OWNER, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.
7. PROVIDE A LIST OF SPARE PARTS, EQUIPMENT & LAMPS.

ELECTRICAL SYMBOL SCHEDULE

1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.
3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
4. SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
5. NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED), USE 'HD' 480 V.
6. HEIGHT TO BE THE LOWER OF EITHER 80" A.F.F. OR 6" BELOW CEILING.
7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
8. DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
9. COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
10. SUBSCRIPT DENOTES NEMA CONFIGURATION.
11. HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.

* TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

DESCRIPTION	MOUNTING HEIGHT	NOTES
ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL		
2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		
3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
CONDUIT RUN CONCEALED IN WALL OR CEILING		
CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
CONDUIT UP		
CONDUIT DOWN		
CONDUIT STUB LOCATION	CAP CONDUIT	
CONDUIT/CIRCUIT CONTINUATION		
CABLE TRAY	AS NOTED	
CEILING LIGHT FIXTURE	CEILING	1.
WALL LIGHT FIXTURE	AS NOTED	1.
RECESSED DOWNLIGHT FIXTURE	CEILING	1.
RECESSED WALL-WASH FIXTURE	CEILING	1.
FLUORESCENT LIGHT FIXTURE	AS NOTED	1
FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED
AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	SEE DIAGRAM
FLOOD OR TRACK FIXTURE	AS NOTED	
CEILING MOUNTED EXIT LIGHT	CEILING	1.3.8.
WALL MOUNTED EXIT LIGHT	AS NOTED	1.3.8.
SINGLE POLE SWITCH	+4'-0"	2.
SINGLE POLE SWITCH	+4'-0"	4. 2.
THREE-WAY SWITCH	+4'-0"	2.
FOUR-WAY SWITCH	+4'-0"	2.
KEY OPERATED SWITCH	+4'-0"	2.
SWITCH WITH PILOT LIGHT	+4'-0"	2.
VARIABLE INTENSITY SWITCH	+4'-0"	2.
TIMER SWITCH	+4'-0"	2.
MOMENTARY CONTACT SWITCH, CENTER POSITION OFF	+4'-0"	2.
SINGLE GANG LV LIGHTING CONTROL WITH MULTIPLE BUTTONS	+4'-0"	2.
OCCUPANCY SENSOR	CEILING	
OCCUPANCY SENSOR	+4'-0"	2.
POWER PACK	CEILING	SEE DIAGRAM, SPEC.
AUTOMATIC RELAY PACK	CEILING	SEE DIAGRAM, SPEC.
LOW VOLTAGE TRANSFORMER		
DUPLEX RECEPTACLE UPPER OUTLET SWITCH CONTROLLED	+16" OR AS NOTED	9. 11.
SIMPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
DUPLEX RECEPTACLE		9.
ELECTRIC WATER COOLER RECEPTACLE		SEE DIAGRAM
WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.
ISOLATED GROUND RECEPTACLE	+16" OR AS NOTED	9. 11.
GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	9. 11.
FOURPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	9. 11.
TVSS PROTECTED RECEPTACLE	+16" OR AS NOTED	9. 11.
FLOOR OUTLET WITH 20A DEVICE	FLOOR	
MULTIPLE SERVICE FLOOR BOX	FLOOR	
SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	10. WITH CAP. 11.
CORD DROP		SEE DIAGRAM
PLUGMOLD	+46" OR AS NOTED	
TELEVISION OUTLET	+16" OR AS NOTED	11.
DATA OUTLET	+16" OR AS NOTED	9. 11.
TELEPHONE OUTLET	+16" OR AS NOTED	9. 11.
TELEPHONE/DATA OUTLET	+16" OR AS NOTED	9. 11.
WIRELESS ACCESS POINT	CEILING	
TELEPHONE OUTLET	FLOOR	
CALL SWITCH	+4'-0"	2.
CLOCK OUTLET	+7'-6"	8.
CLOCK/SPEAKER COMBINATION	+7'-6"	
JUNCTION BOX ('F' IN FLOOR)	AS NOTED	
MOTOR OUTLET	TO SUIT EQUIP.	
PHOTO-ELECTRIC CONTROL	AS NOTED	TORK 2000A
DIGITAL DAY-LIGHT SENSOR	CEILING	SEE DIAGRAM, SPECIFICATION
TIME CLOCK	+5'-0"	2.
PUSHBUTTON	+4'-0"	2.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	NON-FUSED DISCONNECT SWITCH	+5'-0"	5.
	FUSED DISCONNECT SWITCH	+5'-0"	5.
	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"	2.
	MAGNETIC STARTER	+5'-0"	7.
	MAGNETIC STARTER / DISCONNECT COMBINATION	+5'-0"	
VFD	VARIABLE FREQUENCY DRIVE	+6'-6"	
	PANEL BOARD	TOP AT +6'-0"	
	MAIN DISTRIBUTION PANEL		
	TELEPHONE TERMINAL BOARD		
	BELL	+7'-6"	
	CHIME	+7'-6"	
F	FIRE ALARM MANUAL STATION	+4'-0"	2.
H	FIRE ALARM SIGNAL HORN/STROBE PROJECTORS	+6'-8"	6.
H	FIRE ALARM SIGNAL HORN/STROBE	+6'-8"	6.
H	CONCEALED FIRE ALARM SIGNAL HORN/STROBE	+6'-8"	6.
H	CONCEALED FIRE ALARM SIGNAL HORN/STROBE	CEILING	
E	FIRE ALARM SIGNAL SPEAKER/STROBE	+6'-8"	6.
E	CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE	+6'-8"	6.
E	CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE	CEILING	
S	FIRE ALARM STROBE	+6'-8"	6.
S	CONCEALED FIRE ALARM SIGNAL STROBE	+6'-8"	6.
S	CONCEALED FIRE ALARM SIGNAL STROBE	CEILING	
K	FIRE ALARM SPEAKER ONLY	+6'-8"	6.
S	SMOKE DETECTOR	CEILING	
D	DUCT SMOKE DETECTOR		MTD. IN DUCT
SC	SMOKE/CABON MONOXIDE DETECTOR	CEILING	
C	CARBON MONOXIDE DETECTOR	CEILING	
H	HEAT DETECTOR	CEILING	
D	FIRE/SMOKE DAMPER		
	DOOR HOLDER	AS NOTED	
FS	FLOW SWITCH		
TS	TAMPER SWITCH		
WF	WATER FLOOD INDICATOR		
	O.S. & Y. VALVE		SEE DIAGRAM
R	FIRE ALARM RELAY		
CM	FIRE ALARM CONTROL MODULE		
MM	FIRE ALARM MONITOR MODULE		
D	DURESS PUSHBUTTON	+4'-0"	
D 1	SECURITY SYSTEM DOOR SWITCH	DOOR JAMB	
D 2	SECURITY SYSTEM OVERHEAD DOOR SWITCH	CEILING	MOUNT AS PER. MAN
MS	MAGNETIC SHEAR LOCK		
K	SECURITY SYSTEM KEYED ACCESS SWITCH	+4'-0"	2.
I	INFRARED SENSOR	AS NOTED	
M	SECURITY MOTION DETECTOR		MOUNT AS PER. MAN
G	GLASS BREAK DETECTOR	CEILING	
ES	ELECTRIC DOOR STRIKE		
CR	ACCESS CONTROL CARD READER	+4'-0"	2.
	CLOSED CIRCUIT TELEVISION CAMERA	AS NOTED	
	DOOR POSITION INDICATING SWITCH		
F	SOUND SYSTEM SPEAKER	+8'-0" OR AS NOTED	
IC	INTERCOM SPEAKER	AS NOTED	
	SPEAKER	CEILING	
V	VOLUME CONTROL	+4'-0"	2.
SV	VOLUME CONTROLW/ SOURCE SELECTOR	+4'-0"	2.
M	MICROPHONE OUTLET	+16"	11.
D	DUAL MICROPHONE OUTLET	+16"	11.
MW	MICROPHONE OUTLET W/ LINE LEVEL INPUT	+16"	11.
MU	MICROPHONE OUTLET W/ TAPE RECORDER JACK	+16"	11.
M	MICROPHONE FLOOR OUTLET	FLOOR	
M	MICROPHONE CEILING OUTLET	CEILING	
IR	INFARED WALL SENSOR	7'-0"	2.
IR	INFARED CEILING SENSOR	CEILING	SEE DIAGRAM, SPEC.
	SOUND EQUIPMENT CABINET		CIRCUIT TO 120V
842	ARCHITECTURAL ROOM NUMBER		
A	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
	EQUIPMENT NUMBER		

INDEX OF ELECTRICAL DRAWINGS

EG001 SYMBOLS, SCHEDULES AND NOTES

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ED101B ELECTRICAL DEMOLITION PLAN - AREA B
ED101C ELECTRICAL DEMOLITION PLAN - AREA C

EL101A LIGHTING PLAN -AREA A
EL101B LIGHTING PLAN -AREA B
EL101C LIGHTING PLAN -AREA C

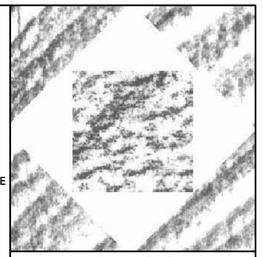
EP101A POWER PLAN -AREA A
EP101B POWER PLAN -AREA B
EP101C POWER PLAN -AREA C

EE101B ELECTRICAL PLAN -ALTERNATE NO.1 AREA B

EX501 ELECTRICAL DIAGRAMS
EX502 ELECTRICAL DIAGRAMS
EX601 ONE-LINE DIAGRAM
EX602 PANELBOARD SCHEDULES

GENERAL NOTES

1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 15 WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH IN.
4. SEE SECTION 16510 OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
5. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
6. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
7. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
8. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
9. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
11. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 165' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH MINIMUM #10 CONDUCTORS.



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HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	10254A
DRAWN BY:	BNA
CHECKED BY:	RLW
DESIGNED BY:	RLW
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

SYMBOLS, SCHEDULES AND NOTES

EG001

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By: bhammond, Feb 22, 2011 - 2:41pm
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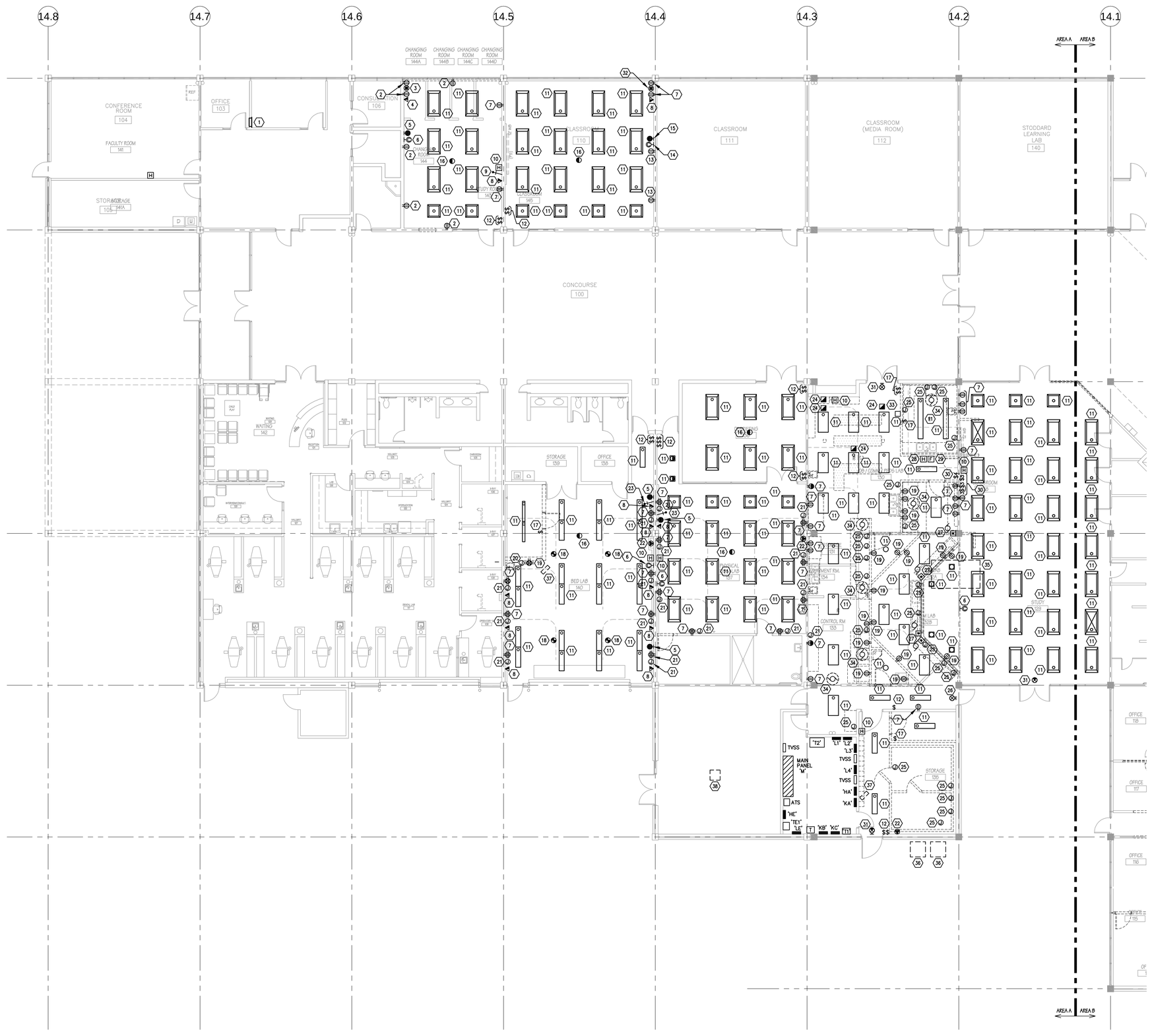


PLAN NORTH

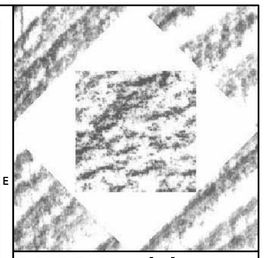
ELECTRICAL DEMOLITION PLAN – AREA A

1/8" = 1'-0"

0 4' 8' 16'

SHEET KEYNOTES

1. EXISTING FIRE ALARM CONTROL PANEL TO BE RELOCATED. SEE POWER PLAN EP101A FOR ADDITIONAL REQUIREMENTS.
2. EXISTING RECEPTACLE LOCATION TO BE REMOVED. REMOVE ASSOCIATED WIRING AND PROVIDE BLANK COVERPLATE.
3. EXISTING TELEVISION OUTLET TO BE REMOVED. REMOVE ASSOCIATED CABLING AND PROVIDE BLANK COVERPLATE.
4. EXISTING TELECOMMUNICATIONS OUTLET TO BE REMOVED. REMOVE ASSOCIATED CABLING AND PROVIDE BLANK COVERPLATE.
5. EXISTING INTERCOM SPEAKER TO REMAIN.
6. EXISTING CLOCK TO REMAIN.
7. EXISTING RECEPTACLE LOCATION TO REMAIN. SEE POWER PLAN EP101A FOR NEW REQUIREMENTS.
8. EXISTING TELECOMMUNICATIONS OUTLET TO REMAIN.
9. EXISTING INTERCOM CALL SWITCH TO BE REMOVED. REMOVE ASSOCIATED CABLING AND PROVIDE BLANK COVERPLATE.
10. EXISTING FIRE ALARM HORN TO REMAIN.
11. EXISTING LIGHT FIXTURE TO BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRE TO JUNCTION BOX IN CEILING.
12. EXISTING SWITCH LOCATION TO BE RE-WORKED. SEE LIGHTING PLAN EL101A FOR NEW REQUIREMENTS.
13. EXISTING RECEPTACLE LOCATION TO BE RELOCATED. SEE POWER PLAN EP101A FOR NEW REQUIREMENTS.
14. EXISTING CLOCK TO BE RELOCATED. SEE POWER PLAN EP101A FOR NEW REQUIREMENTS.
15. EXISTING INTERCOM SPEAKER TO BE RELOCATED. SEE POWER PLAN EP101A FOR NEW REQUIREMENTS.
16. EXISTING OCCUPANCY SENSOR TO BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRE.
17. EXISTING SWITCH LOCATION TO BE REMOVED. REMOVE ASSOCIATED BOX, CONDUIT AND WIRE.
18. EXISTING CORD DROP TO BE REMOVED REMOVE ASSOCIATED BOX, CONDUIT AND WIRE.
19. EXISTING RECEPTACLE LOCATION TO BE REMOVED. REMOVE ASSOCIATED BOX, CONDUIT AND WIRE.
20. EXISTING JUNCTION BOX TO BE REMOVED. REMOVE ASSOCIATED CONDUIT.
21. EXISTING JUNCTION BOX TO REMAIN. SEE POWER PLAN EP101A FOR NEW REQUIREMENTS.
22. EXISTING SPECIAL PURPOSE OUTLET TO BE REMOVED. REMOVE ASSOCIATED WIRE AND PROVIDE BLANK COVERPLATE.
23. EXISTING INTERCOM CALL SWITCH TO REMAIN.
24. EXISTING POWER POLE TO BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRE.
25. EXISTING POWER CONNECTION FOR KITCHEN EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED BOX, CONDUIT AND WIRE.
26. EXISTING EXIT SIGN TO BE REMOVED. REMOVE ASSOCIATED BOX, CONDUIT AND WIRE.
27. EXISTING MOTORIZED DOOR TO BE REMOVED. REMOVE POWER CONNECTION AND ASSOCIATED CONDUIT AND WIRE.
28. EXISTING FIRE ALARM HORN/STROBE TO BE RELOCATED. SEE POWER PLAN EP101A FOR NEW LOCATION.
29. EXISTING FIRE ALARM PULL STATION TO BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRE. MAINTAIN FIRE ALARM LOOP.
30. EXISTING SWITCH LOCATION TO BE REMOVED. REMOVE ASSOCIATED WIRE AND PROVIDE BLANK COVERPLATE.
31. EXISTING EXIT SIGN TO REMAIN.
32. EXISTING TELEVISION OUTLET TO REMAIN.
33. EXISTING DISCONNECT TO BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRE.
34. EXISTING EXHAUST FAN TO BE REMOVED BY DIVISION 15. REMOVE ASSOCIATED STARTER, CONDUIT AND WIRE.
35. EXISTING MAKE-UP AIR UNIT TO BE REMOVED BY DIVISION 15. REMOVE ASSOCIATED STARTER, CONDUIT AND WIRE.
36. EXISTING CONDENSING UNIT TO BE REMOVED BY DIVISION 15. REMOVE ASSOCIATED DISCONNECT, CONDUIT AND WIRE.
37. EXISTING UNIT HEATER TO BE REMOVED BY DIVISION 15. REMOVE ASSOCIATED CONDUIT AND WIRE.
38. EXISTING WATER HEATER AND RECIRC PUMP TO BE REMOVED BY DIVISION 15. REMOVE ASSOCIATED CONDUIT AND WIRE.



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DRAWN BY:	BNA
CHECKED BY:	RLW
DESIGNED BY:	RLW
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

ELECTRICAL DEMOLITION PLAN - AREA A

ED101A

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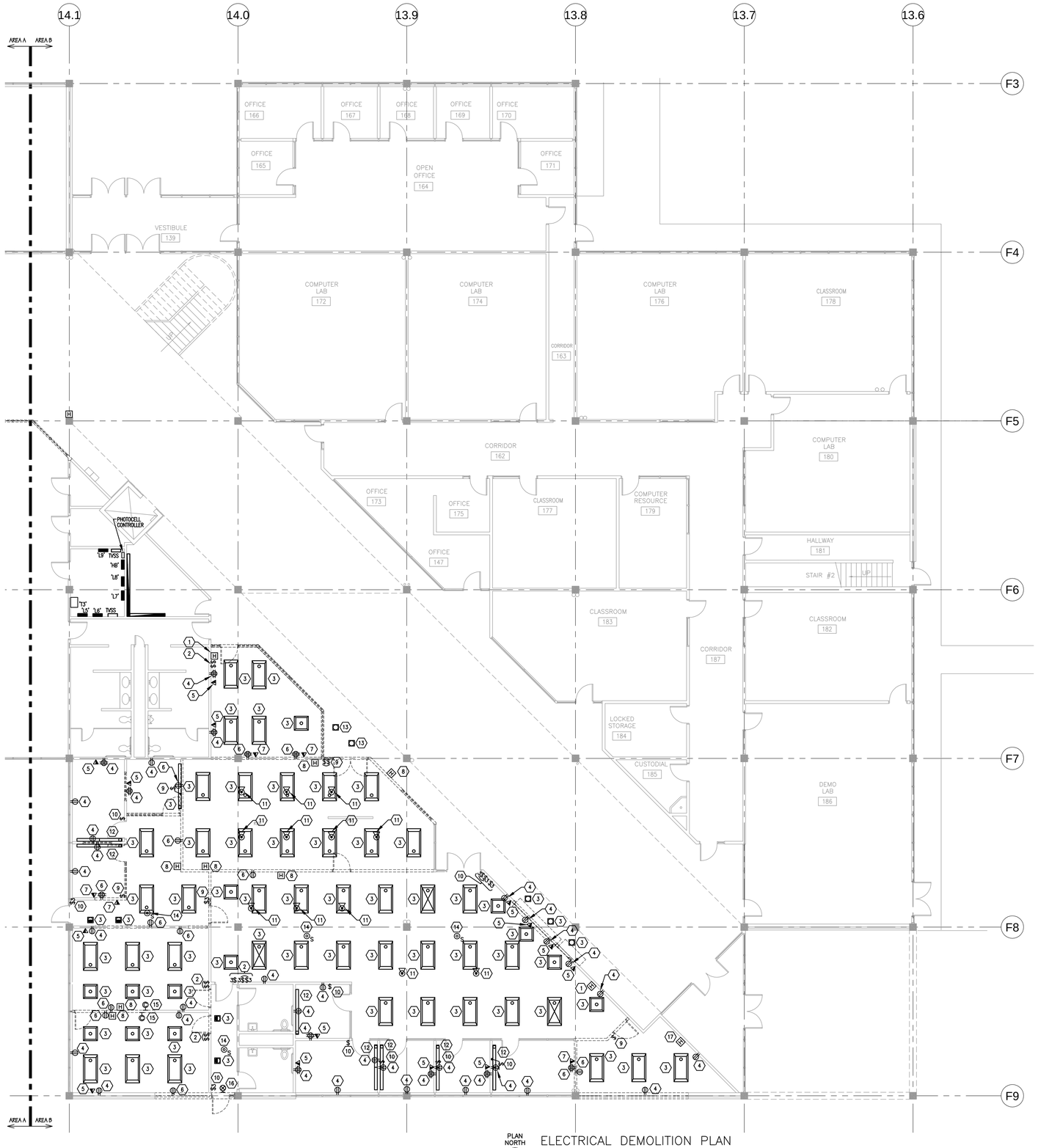

PLAN NORTH

ELECTRICAL DEMOLITION PLAN – AREA B

1/8" = 1'-0"

0 4' 8' 16'

SHEET KEYNOTES

1. EXISTING FIRE ALARM HORN/STROBE TO REMAIN.
2. EXISTING SWITCH LOCATION TO BE REMOVED. REMOVE ASSOCIATED WIRE AND PROVIDE BLANK COVERPLATE.
3. EXISTING LIGHT FIXTURE TO BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRE TO JUNCTION BOX IN CEILING.
4. EXISTING RECEPTACLE LOCATION TO REMAIN.
5. EXISTING TELECOMMUNICATIONS OUTLET TO REMAIN.
6. EXISTING RECEPTACLE LOCATION TO BE REMOVED. REMOVE ASSOCIATED BOX, CONDUIT AND WIRE.
7. EXISTING TELECOMMUNICATIONS OUTLET TO BE REMOVED. REMOVE ASSOCIATED BOX, CONDUIT, AND CABLING.
8. EXISTING FIRE ALARM HORN/STROBE TO BE RELOCATED. SEE POWER PLAN EP101B FOR NEW LOCATION.
9. EXISTING SWITCH LOCATION TO BE REMOVED. REMOVE ASSOCIATED BOX, CONDUIT, AND WIRE.
10. EXISTING SWITCH LOCATION TO BE REWORKED. SEE LIGHTING PLAN EL101B FOR NEW REQUIREMENTS.
11. EXISTING FLOOR BOX TO REMAIN.
12. EXISTING LIGHT FIXTURE TO BE REMOVED. REMOVE ASSOCIATED WIRE AND PROVIDE BLANK COVERPLATE ON JUNCTION BOX.
13. EXISTING LIGHT FIXTURE TO BE RELOCATED. SEE LIGHTING PLAN EL101B FOR NEW LOCATION.
14. EXISTING FIRE ALARM SMOKE DETECTOR TO BE RELOCATED. SEE POWER PLAN EP101B FOR NEW LOCATION.
15. EXISTING CLOCK TO BE REMOVED. REMOVED ASSOCIATED BACKBOX, CONDUIT, AND WIRE.
16. EXISTING EXIT SIGN TO REMAIN.
17. EXISTING FIRE ALARM HORN TO BE RELOCATED. PROVIDE BLANK COVERPLATE ON JUNCTION BOX.

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ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

ELECTRICAL DEMOLITION PLAN - AREA B

ED101B

SHEET OF

By: bhammond; Feb 22, 2011 – 2:41pm
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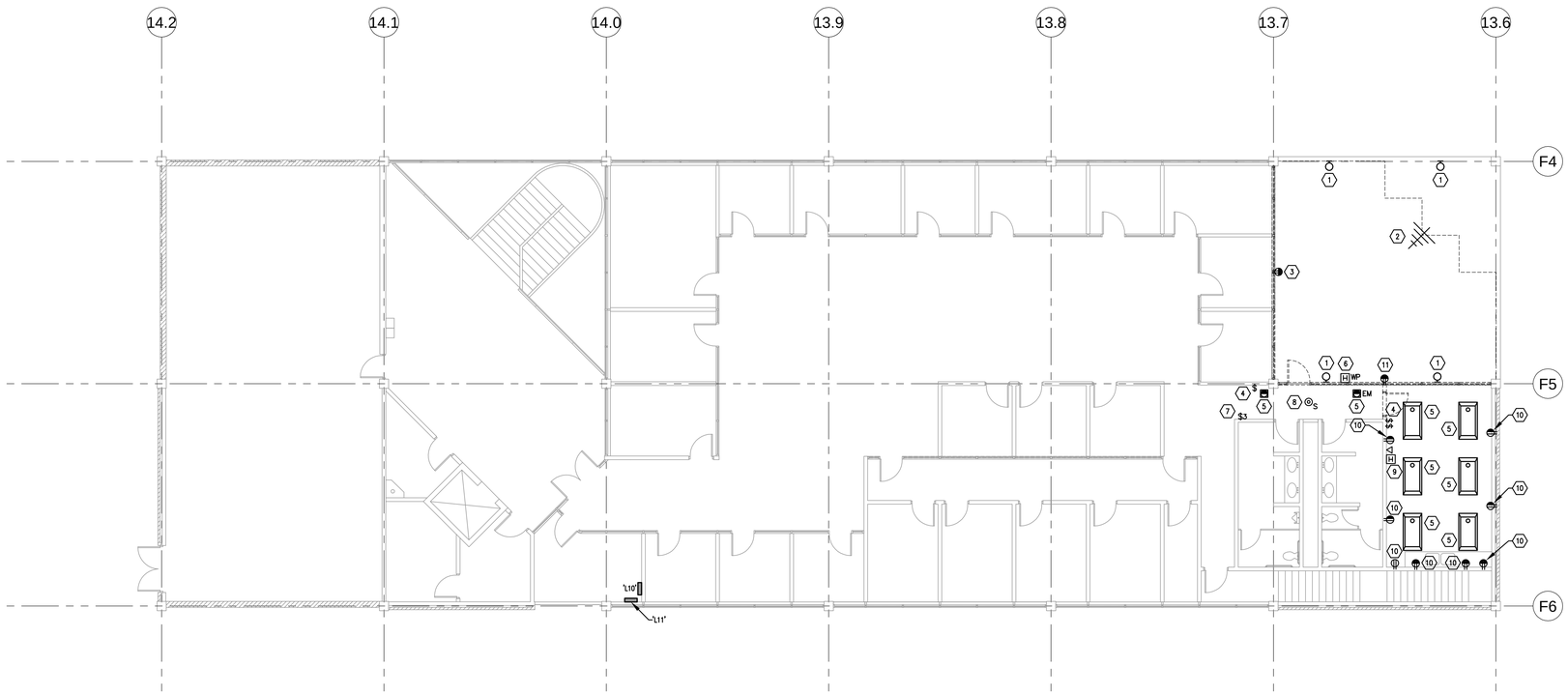
SHEET KEYNOTES

1. EXISTING LIGHT FIXTURE TO BE REMOVED AND TURNED OVER TO THE OWNER. REMOVE ASSOCIATED WIRE AND PROVIDE BLANK COVERPLATE ON JUNCTION BOX.
2. EXISTING ANTENNA TO BE RELOCATED. SEE POWER PLAN EP101C FOR NEW LOCATION.
3. EXISTING RECEPTACLE LOCATION TO BE REWORKED. SEE POWER PLAN EP101C FOR NEW REQUIREMENTS.
4. EXISTING SWITCH TO BE REMOVED. REMOVE ASSOCIATED WIRE AND PROVIDE BLANK COVERPLATE.
5. EXISTING LIGHT FIXTURE TO BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRE TO JUNCTION BOX IN CEILING.
6. EXISTING FIRE ALARM HORN/STROBE TO BE RELOCATED. SEE POWER PLAN EP101C FOR NEW LOCATION.
7. EXISTING SWITCH TO REMAIN.
8. EXISTING FIRE ALARM SMOKE DETECTOR TO BE RELOCATED. SEE POWER PLAN EP101C FOR NEW LOCATION.
9. EXISTING FIRE ALARM HORN/STROBE TO REMAIN.
10. EXISTING RECEPTACLE TO REMAIN.
11. EXISTING RECEPTACLE TO BE REMOVED. REMOVE ASSOCIATED BOX, CONDUIT AND WIRE.



PLAN NORTH

ELECTRICAL DEMOLITION PLAN – AREA C

1/8" = 1'-0"

0 4' 8' 16'

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SHEET TITLE

ELECTRICAL DEMOLITION PLAN - AREA C

ED101C

SHEET OF

By: bhammond; Feb 22, 2011 – 2:42pm
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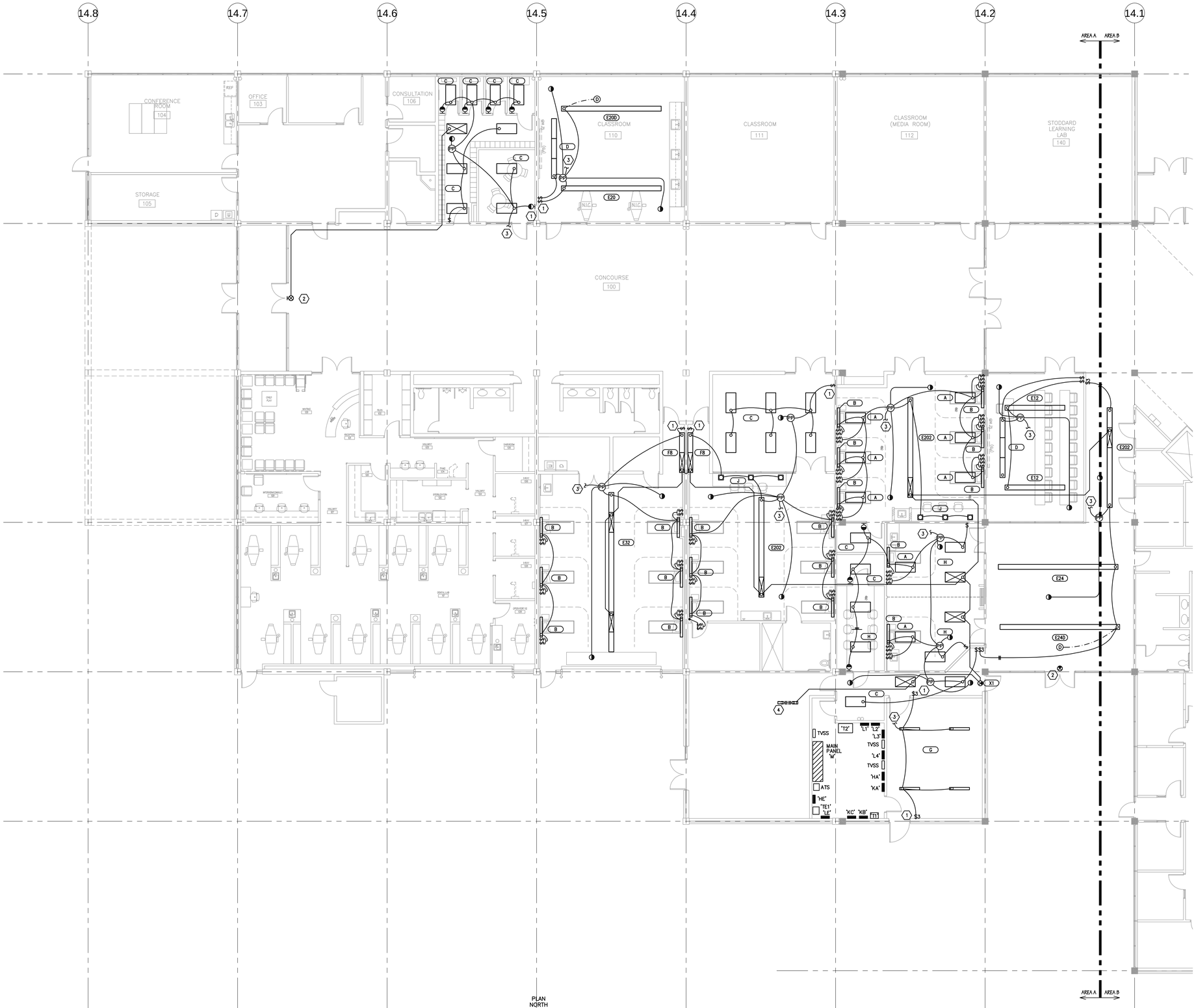
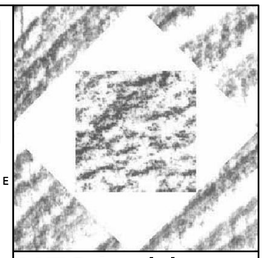
SHEET KEYNOTES

1. EXISTING SWITCH LOCATION. PROVIDE NEW DEVICE AND COVERPLATE. PROVIDE NEW CONTROL INDICATED.
2. EXISTING EXIT SIGN.
3. CONNECT TO EXISTING LIGHTING CIRCUIT THIS ROOM.
4. EXISTING LIGHT FIXTURE.



PLAN NORTH

LIGHTING PLAN – AREA A
1/8" = 1'-0"
0 4' 8' 16'



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DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	10254A
DRAWN BY:	BNA
CHECKED BY:	RLW
DESIGNED BY:	RLW
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

LIGHTING PLAN - AREA A

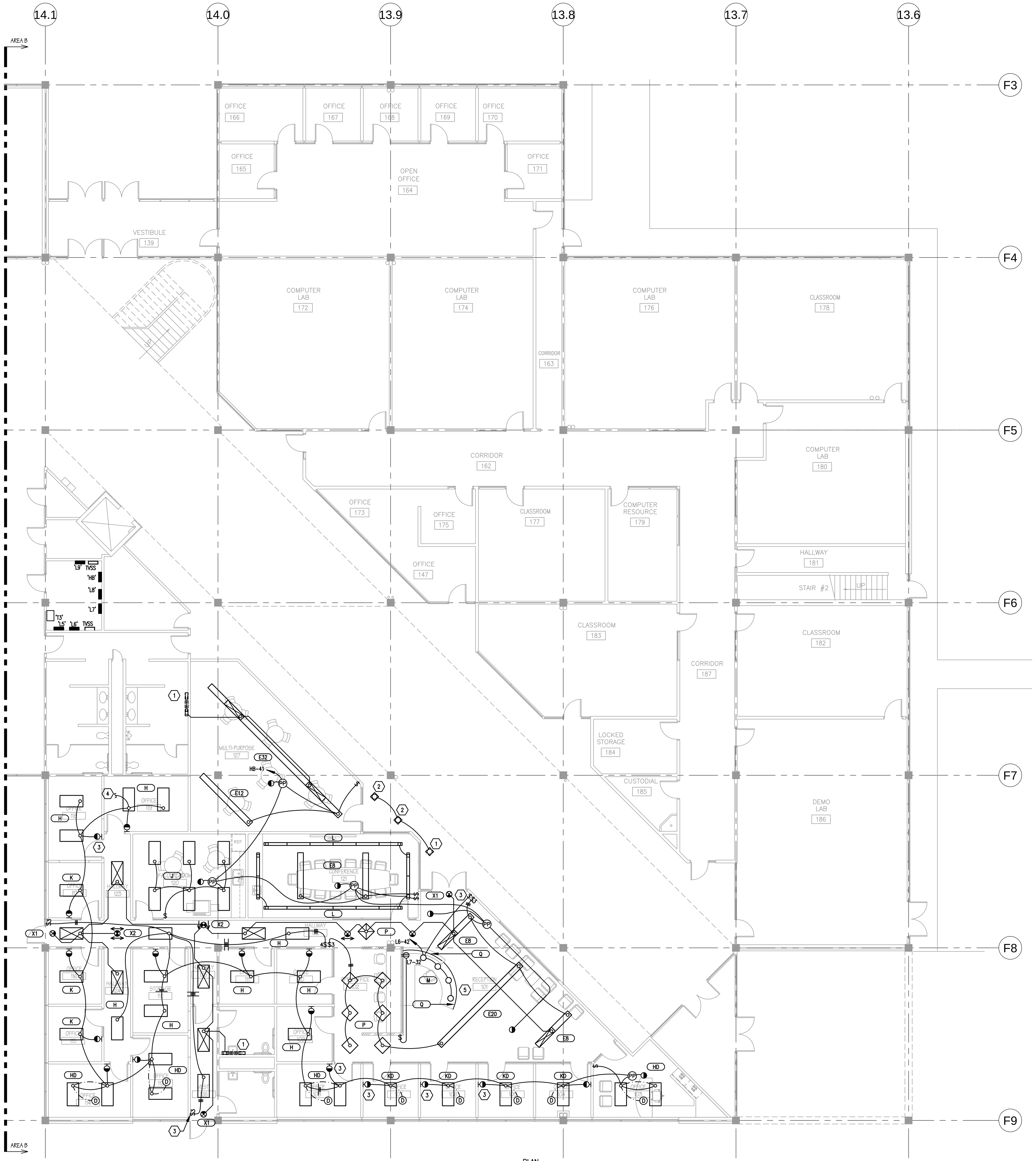
EL101A

SHEET OF

By: bhammond, Feb 22, 2011 – 2:42pm
J:\2010\254A\DRAW\254A-EL101A.dwg

SHEET KEYNOTES

1. EXISTING LIGHT FIXTURE.
2. RELOCATED LIGHT FIXTURE. CLEAN AND RELAMP. CONNECT TO CIRCUITING INDICATED.
3. EXISTING SWITCH LOCATION. PROVIDE NEW DEVICE AND COVERPLATE. PROVIDE NEW CONTROL INDICATED.
4. CONNECT TO EXISTING LIGHTING CIRCUIT THIS AREA.
5. TYPE 'Q' LIGHT FIXTURE TO MOUNT IN COVE IN DESK. MOUNT RECEPTACLE UNDER COUNTER TOP FOR PLUG-IN TRANSFORMER.



PLAN NORTH

LIGHTING PLAN – AREA B
1/8" = 1'-0"

0 4' 8' 16'

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SHEET TITLE

LIGHTING PLAN - AREA B

EL101B

SHEET OF

By: bhammond; Feb 22, 2011 -- 2:42pm
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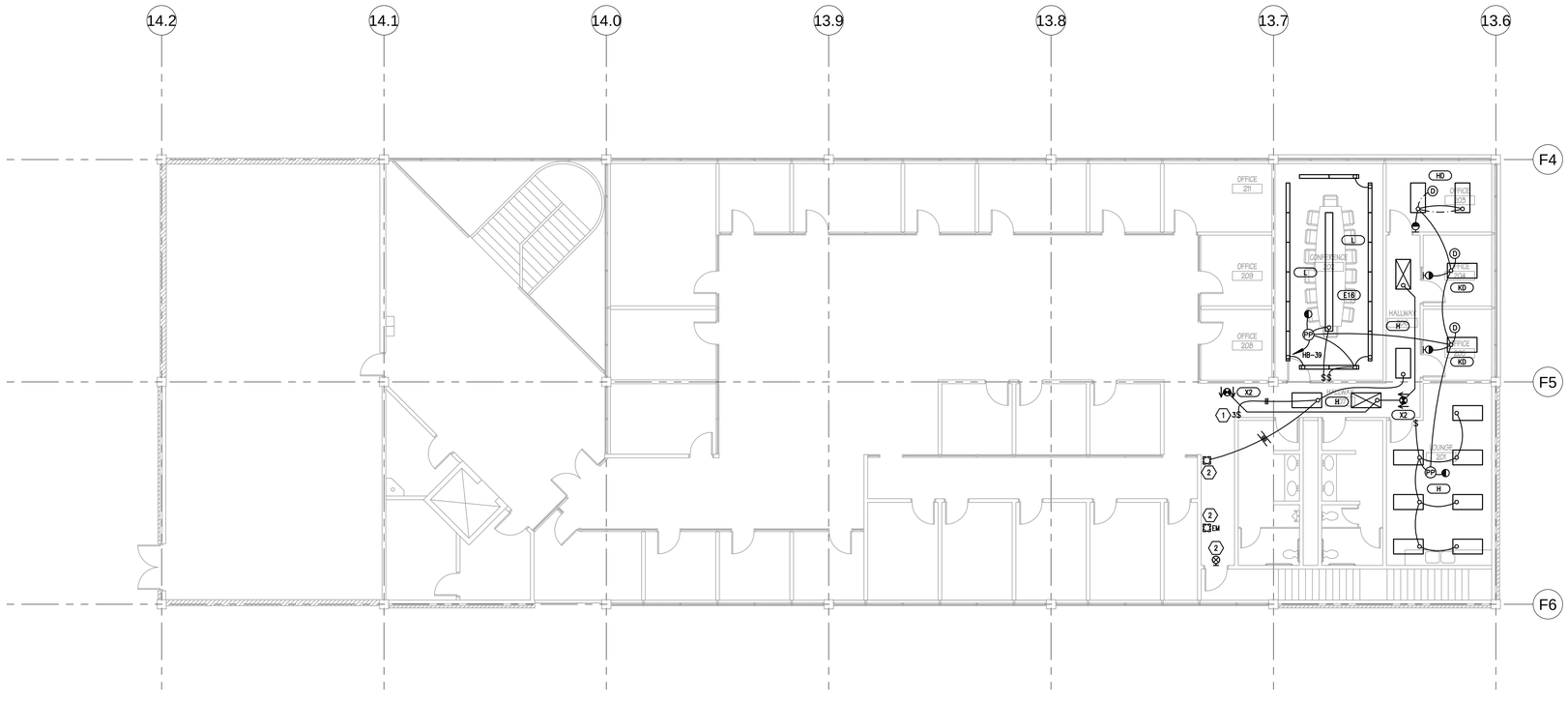
SHEET KEYNOTES

1. EXISTING SWITCH LOCATION. PROVIDE NEW DEVICE AND COVERPLATE. PROVIDE NEW CONTROL INDICATED.
2. EXISTING LIGHT FIXTURE.

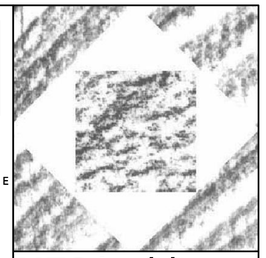


PLAN NORTH

LIGHTING PLAN – AREA C

1/8" = 1'-0"

0 4' 8' 16'



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SHEET TITLE

LIGHTING PLAN - AREA C

EL101C

SHEET OF

By: bhammond; Feb. 22, 2011 – 2:42pm
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PLAN NORTH

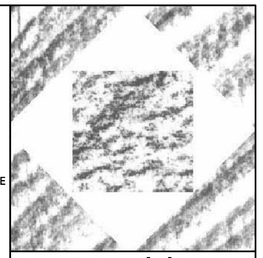
POWER PLAN – AREA A

1/8" = 1'-0"

0 4' 8' 16'

SHEET KEYNOTES

1. PROVIDE A 6"x6"x4" DEEP JUNCTION BOX WITH SPLIT GROMMETED COVER AND 2" CONDUIT TO JUNCTION BOX 'X'.
2. JUNCTION BOX 'X'. PROVIDE A 12"x12"x4" DEEP JUNCTION BOX WITH SPLIT GROMMETED COVER. MOUNT BOTTOM OF BOX 6" A.F.F.
3. PROVIDE A 3/4" CONDUIT TO JUNCTION BOX 'X' FOR CAMERA SYSTEM FURNISHED AND INSTALLED BY OWNER.
4. PROVIDE OUTER DEVICE IN COLOR AS SELECTED BY ARCHITECT AND INNER DEVICE IN RED.
5. MULTI-SERVICE FLOOR BOX. PROVIDE A 1-1/4" CONDUIT TO PROJECTOR IN CEILING, 1" CONDUIT TO DOCUMENT CAMERA IN CEILING AND 3/4" CONDUIT TO MOTORIZED SCREEN FOR CONTROL.
6. EXISTING RECEPTACLE. PROVIDE NEW DEVICE AND COVERPLATE.
7. EXISTING TELECOMMUNICATIONS OUTLET. EXTEND TO NEW WALL SURFACE.
8. EXISTING FIRE ALARM HORN/STROBE.
9. EXISTING TELEVISION OUTLET TO REMAIN.
10. EXISTING RECEPTACLE LOCATION. EXTENDED TO NEW WALL SURFACE. PROVIDE NEW DEVICE AND COVERPLATE.
11. EXISTING CLOCK. EXTEND TO NEW WALL SURFACE. PROVIDE NEW BACK BOX.
12. EXISTING INTERCOM SPEAKER. EXTEND TO NEW WALL SURFACE. PROVIDE NEW BACK BOX.
13. EXISTING JUNCTION BOX LOCATION. PROVIDE NEW BLANK COVERPLATE.
14. RELOCATED FIRE ALARM HORN/STROBE. EXTEND CONDUIT AND WIRE TO NEW LOCATION.
15. EXISTING INTERCOM SPEAKER. EXTEND TO NEW WALL SURFACE.
16. EXISTING INTERCOM CALL SWITCH. EXTEND TO NEW WALL SURFACE.
17. EXISTING CLOCK. EXTEND TO NEW WALL SURFACE. PROVIDE NEW BACK BOX.
18. RELOCATED FIRE ALARM PANEL. PROVIDE PULLBOX ABOVE EXISTING LOCATION AND EXTEND ALL WIRING TO NEW LOCATION PROVIDE WIREMOLD SURFACE RACEWAY DOWN WALL TO NEW PANEL LOCATION.
19. FIRE ALARM REMOTE OPERATING PANEL. TIE TO FIRE ALARM PANEL. PROVIDE WIREMOLD SURFACE RACEWAY DOWN WALL TO PANEL.
20. CONNECT TO EXISTING RECEPTACLE.
21. JUNCTION BOX MOUNTED ABOVE CEILING FOR VAV BOXES. DIVISION 15 CONTRACTOR TO FURNISH AND INSTALL STEP-DOWN TRANSFORMER AND ALL LOW VOLTAGE WIRING.
22. EXISTING FIRE ALARM HORN/STROBE. EXTEND TO NEW WALL SURFACE.
23. EXISTING JUNCTION BOX LOCATION. EXTEND TO NEW WALL SURFACE. PROVIDE NEW BLANK COVERPLATE.



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CHECKED BY:	RLW
DESIGNED BY:	RLW
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

POWER PLAN - AREA A

EP101A

SHEET OF

By: bhammond, Feb 22, 2011 – 2:42pm
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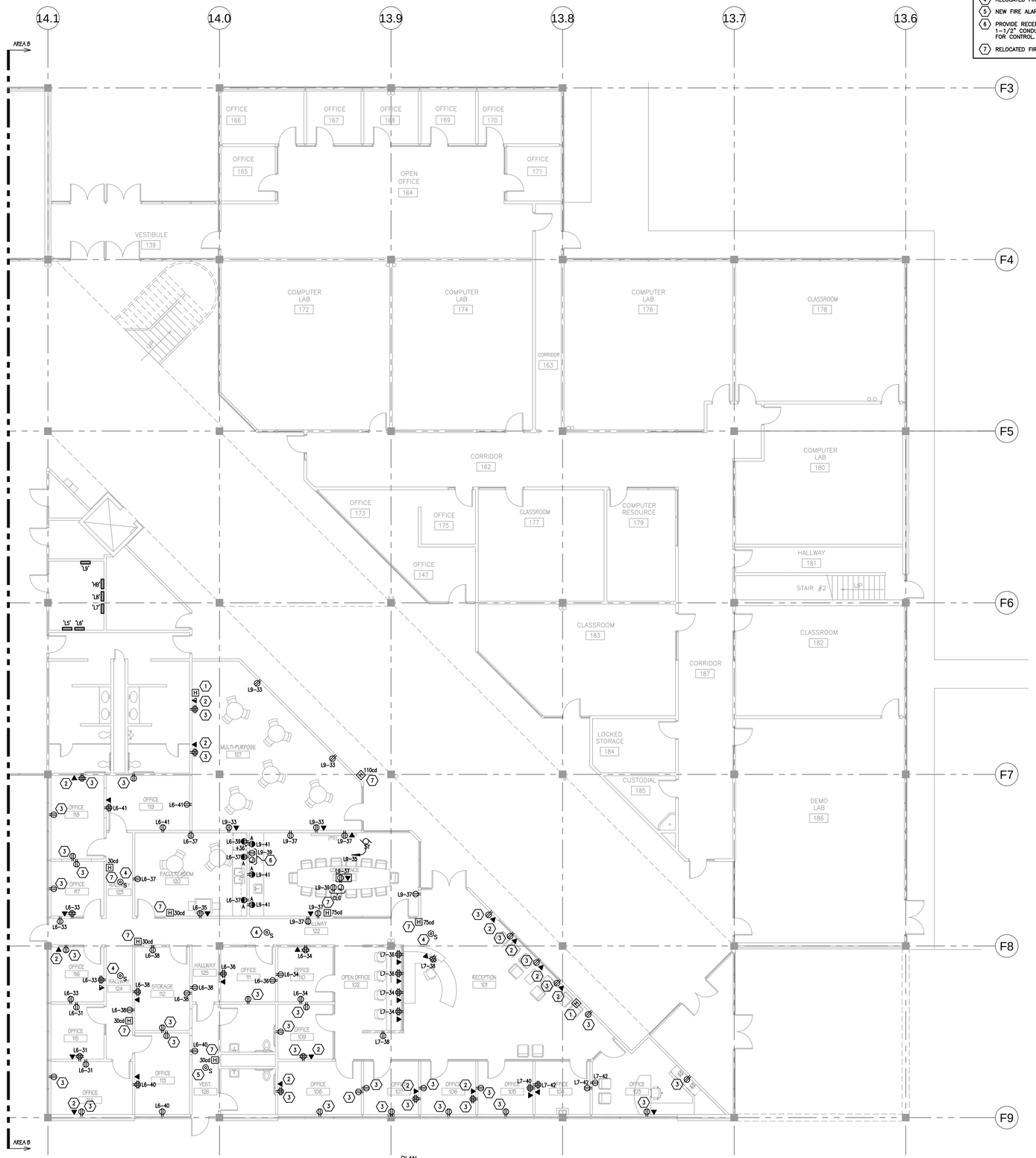
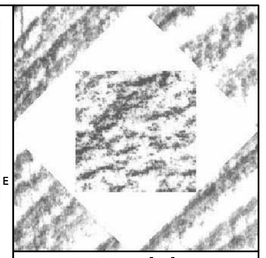
SHEET KEYNOTES

1. EXISTING FIRE ALARM HORN/STROBE.
2. EXISTING TELECOMMUNICATIONS OUTLET.
3. EXISTING RECEPTACLE LOCATION. PROVIDE NEW DEVICE AND COVERPLATE.
4. RELOCATED FIRE ALARM SMOKE DETECTOR. EXTEND CONDUIT AND WIRE TO NEW LOCATION.
5. NEW FIRE ALARM SMOKE DETECTOR. CONNECT INTO FIRE ALARM LOOP.
6. PROVIDE RECEPTACLE AND PULLBOX (6"x6"x4") IN MILLWORK FOR A/V SYSTEM. PROVIDE A 1-1/2" CONDUIT TO PROJECTOR LOCATION. PROVIDE A 3/4" CONDUIT TO MOTORIZED SCREEN FOR CONTROL.
7. RELOCATED FIRE ALARM HORN/STROBE. EXTEND WIRING TO NEW LOCATION.



POWER PLAN – AREA B
1/8" = 1'-0"
0 4' 8' 16'



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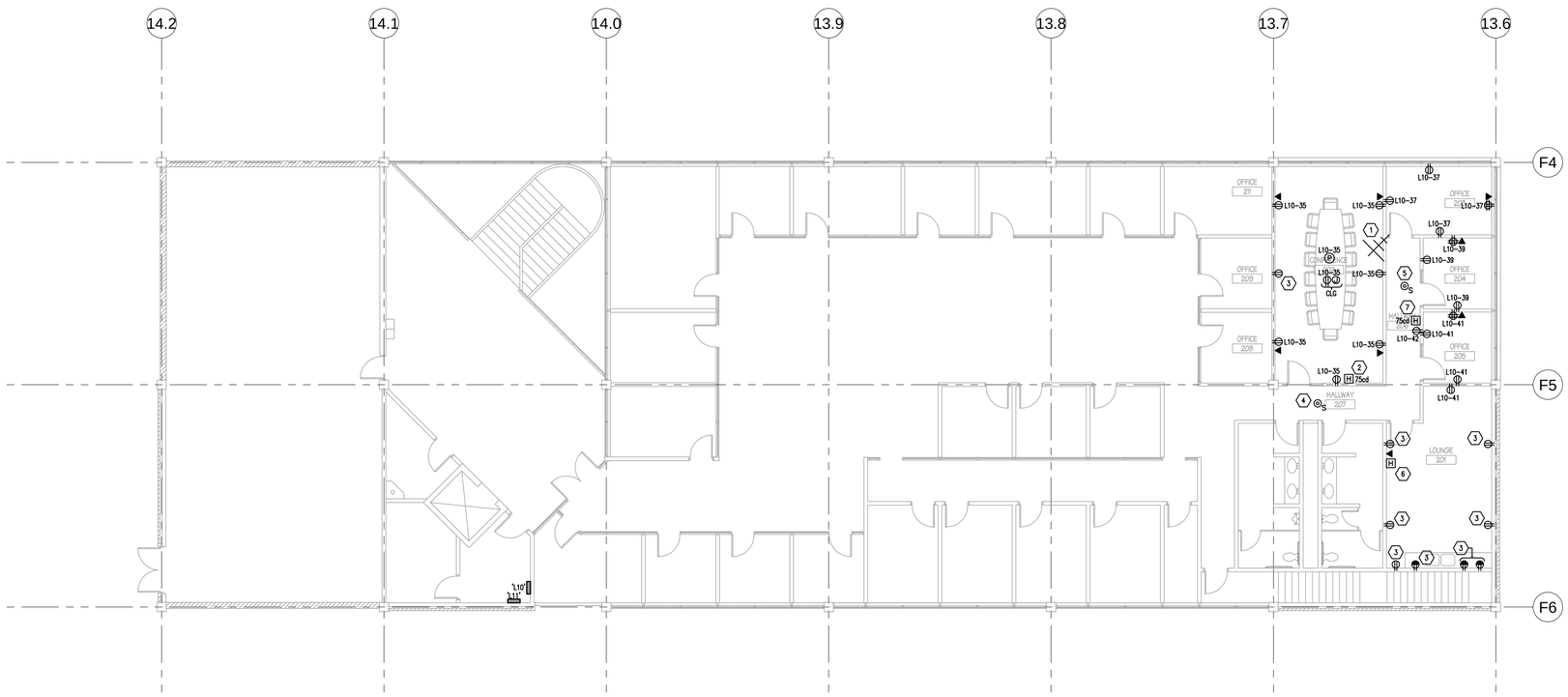
SHEET TITLE
POWER PLAN - AREA B

EP101B
SHEET OF

By: bhammond; Feb 22, 2011 – 2:43pm
J:\2010\254A\DRAW\254A-EP101B.dwg

SHEET KEYNOTES

1. RELOCATED ANTENNA. PROVIDE NEW MAST PER DIAGRAM G001/EX501 EXTEND CABLE TO NEW LOCATION.
2. RELOCATED FIRE ALARM HORN/STROBE. EXTEND WIRING TO NEW LOCATION.
3. EXISTING RECEPTACLE LOCATION. PROVIDE NEW DEVICE AND COVERPLATE.
4. RELOCATED FIRE ALARM SMOKE DETECTOR. EXTEND FIRE ALARM LOOP TO NEW LOCATION.
5. NEW FIRE ALARM SMOKE DETECTOR. TIE INTO FIRE ALARM LOOP.
6. EXISTING FIRE ALARM HORN/STROBE.
7. NEW FIRE ALARM HORN/STROBE. TIE INTO FIRE ALARM LOOP.



PLAN NORTH

POWER PLAN – AREA C

1/8" = 1'-0"

0 4' 8' 16'

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DESIGNED BY:	RLW
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

POWER PLAN - AREA C

EP101C

SHEET OF

By: bhammond, Feb 22, 2011 – 2:43pm
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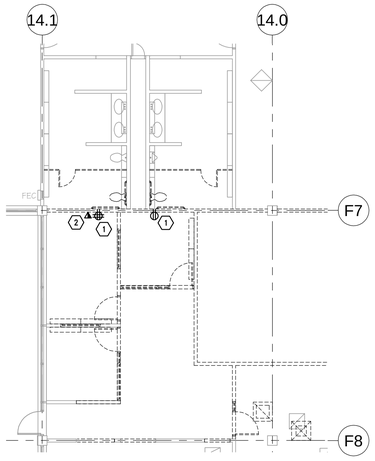
GENERAL SHEET NOTES

1. ITEMS INDICATED ON THIS SHEET ARE CHANGES TO THE BASE BID DOCUMENTS.

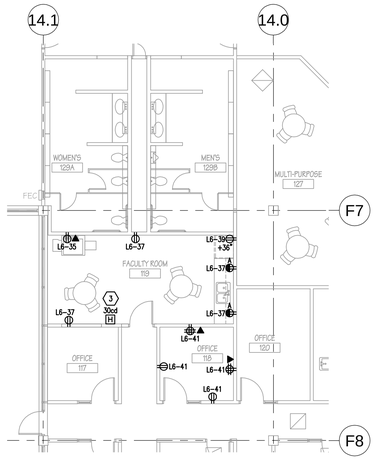
SHEET KEYNOTES

1. EXISTING RECEPTACLE LOCATION TO BE REMOVED. REMOVE ASSOCIATED BOX, CONDUIT AND WIRE.
2. EXISTING TELECOMMUNICATION OUTLET TO BE REMOVED. REMOVE ASSOCIATED BO, CONDUIT AND CABLING.
3. RELOCATED FIRE ALARM HORN/STROBE. EXTEND WIRING TO NEW LOCATION.



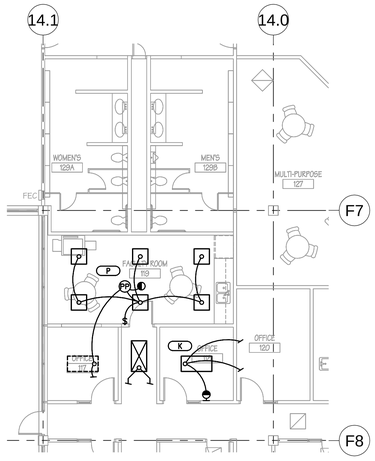
PLAN NORTH

ELECTRICAL DEMOLITION PLAN
AREA B ALTERNATE NO. 1
1/8" = 1'-0"



PLAN NORTH

POWER PLAN
AREA B ALTERNATE NO. 1
1/8" = 1'-0"



PLAN NORTH

LIGHTING PLAN
AREA B ALTERNATE NO. 1
1/8" = 1'-0"

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DESIGNED BY:	RLW
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

ELECTRICAL PLAN
ALTERNATE NO.1 -
AREA B

EE101B

SHEET OF

By: bhammond; Feb 22, 2011 – 2:43pm
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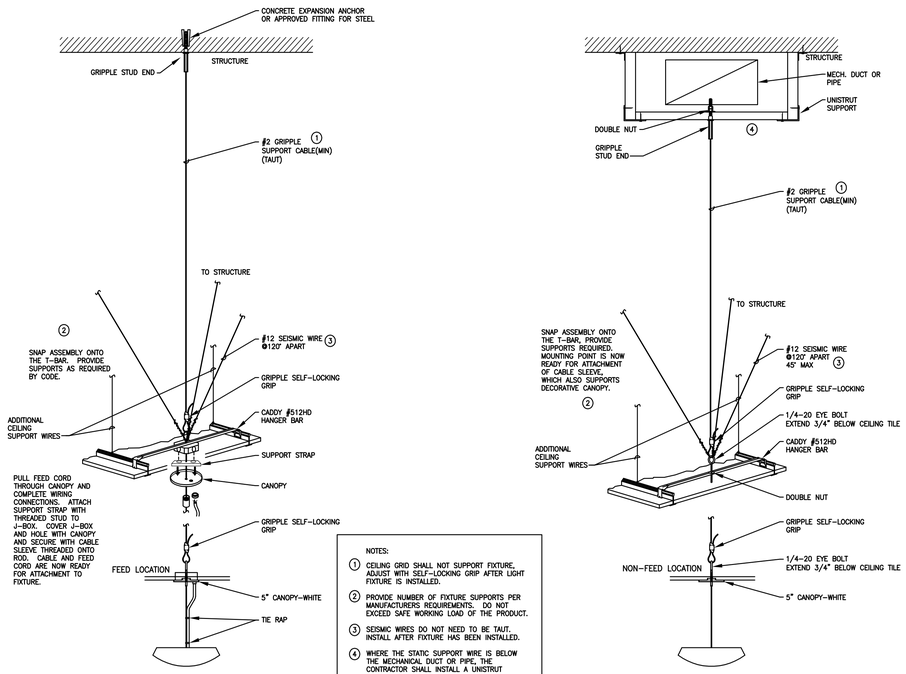


NOTES:

1. CEILING GRID SHALL NOT SUPPORT FIXTURE. ADJUST WITH SELF-LOCKING GRIP AFTER LIGHT FIXTURE IS INSTALLED.
2. PROVIDE NUMBER OF FIXTURE SUPPORTS PER MANUFACTURER'S REQUIREMENTS. DO NOT EXCEED SAFE WORKING LOAD OF THE PRODUCT.
3. SEISMIC WIRES DO NOT NEED TO BE TAUT. INSTALL AFTER FIXTURE HAS BEEN INSTALLED.
4. WHERE THE STATIC SUPPORT WIRE IS BELOW THE MECHANICAL DUCT OR PIPE, THE CONTRACTOR SHALL INSTALL A UNISTRUT SUPPORT RACK TO BRIDGE IMPEDIMENT. (TYPICAL)

DIAGRAM A016 INDIRECT LIGHT FIXTURE MOUNTING
NTS – SUSPENSION OFF THE T-BAR

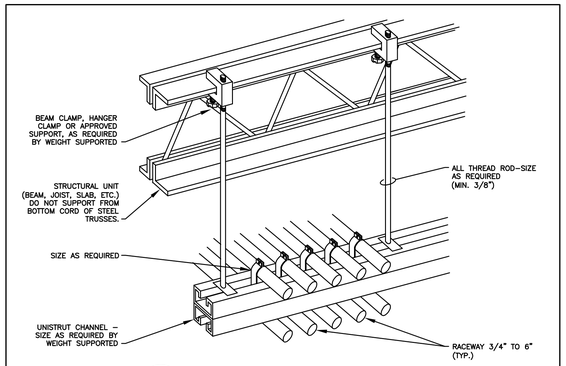


DIAGRAM H001 TYPICAL TRAPEZE CONDUIT RACK
NTS

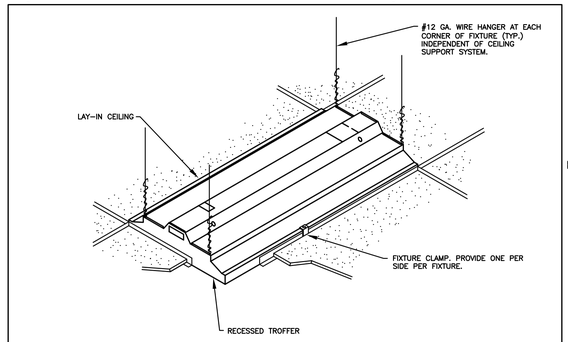
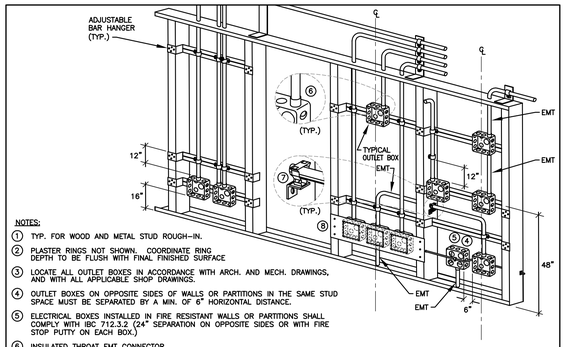


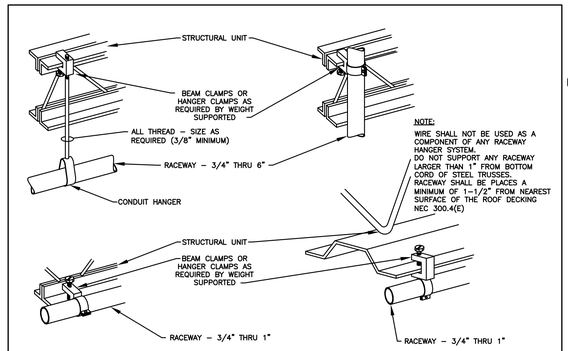
DIAGRAM A001 TYP. RECESSED FIXTURE MOUNTING
NTS



NOTES:

1. TYP. FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN. COORDINATE RING DEPTH TO BE FLUSH WITH FINAL FINISHED SURFACE
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCH. AND MECH. DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MIN. OF 6" HORIZONTAL DISTANCE.
5. ELECTRICAL BOXES INSTALLED IN FIRE RESISTANT WALLS OR PARTITIONS SHALL COMPLY WITH IBC 712.3.2 (24" SEPARATION ON OPPOSITE SIDES OR WITH FIRE STOP PUTTY ON EACH BOX.)
6. INSULATED THROAT EMT CONNECTOR.
7. CADDY FASTENER, THROUGH STUD CABLE/CONDUIT SUPPORT 'FB12P'.
8. CADDY BOX MOUNTING BRACKET 'RBS16'.

DIAGRAM H004 TYPICAL ROUGH IN REQUIREMENTS
NTS



NOTE:
WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM. DO NOT SUPPORT ANY RACEWAY LARGER THAN 1" FROM BOTTOM CORD OF STEEL TRUSSES. RACEWAY SHALL BE PLACES A MINIMUM OF 1-1/2" FROM NEAREST SURFACE OF THE ROOF DECKING NEC 300.4(E)

DIAGRAM H003 TYPICAL RACEWAY SUPPORT METHODS
NTS

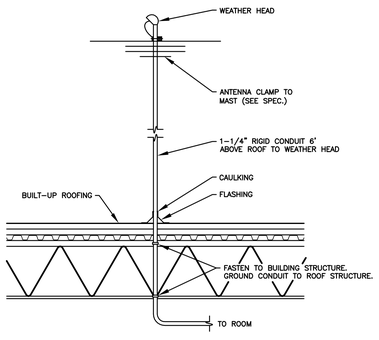


DIAGRAM G001 ANTENNA MOUNTING
NTS

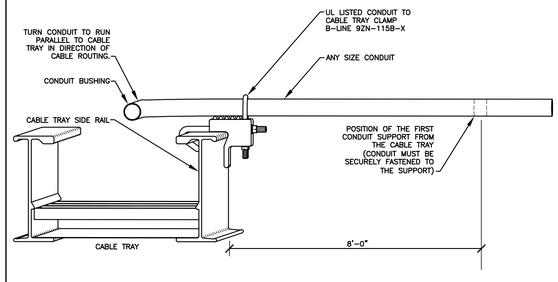
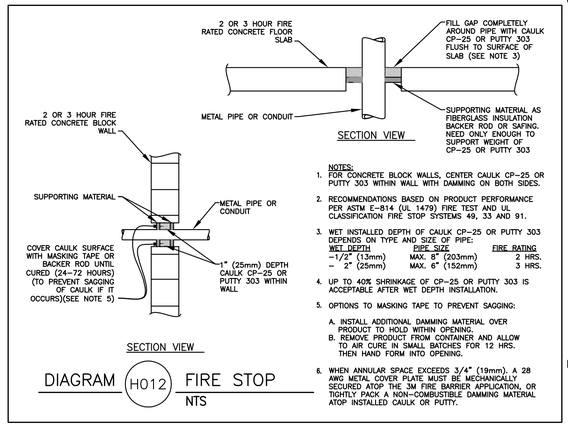


DIAGRAM I006 CONDUIT TO CABLE TRAY
NTS



NOTES:

1. FOR CONCRETE BLOCK WALLS, CENTER CAULK CP-25 OR PUTTY 303 WITHIN WALL WITH DAMMING ON BOTH SIDES.
2. RECOMMENDATIONS BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL CLASSIFICATION FIRE STOP SYSTEMS 49, 33 AND 91.
3. WET INSTALLED DEPTH OF CAULK CP-25 OR PUTTY 303 DEPENDS ON TYPE AND SIZE OF PIPE:

WET DEPTH	PIPE SIZE	FIRE RATING
– 1/2" (13mm)	MAX. 8" (203mm)	2 HRS.
– 2" (25mm)	MAX. 6" (152mm)	3 HRS.

4. UP TO 40% SHRINKAGE OF CP-25 OR PUTTY 303 IS ACCEPTABLE AFTER WET DEPTH INSTALLATION.
5. OPTIONS TO MASKING TAPE TO PREVENT SAGGING:
   A. INSTALL ADDITIONAL DAMMING MATERIAL OVER PRODUCT TO HOLD WITHIN OPENING.
   B. REMOVE PRODUCT FROM CONTAINER AND ALLOW TO AIR CURE IN SMALL BATCHES FOR 12 HRS. THEN HAND FORM INTO OPENING.
6. WHEN ANNULAR SPACE EXCEEDS 3/4" (19mm). A 28 AWG METAL COVER PLATE MUST BE MECHANICALLY SECURED ATOP THE 3M FIRE BARRIER APPLICATION, OR TIGHTLY PACK A NON-COMBUSTIBLE DAMMING MATERIAL ATOP INSTALLED CAULK OR PUTTY.

DIAGRAM H012 FIRE STOP
NTS

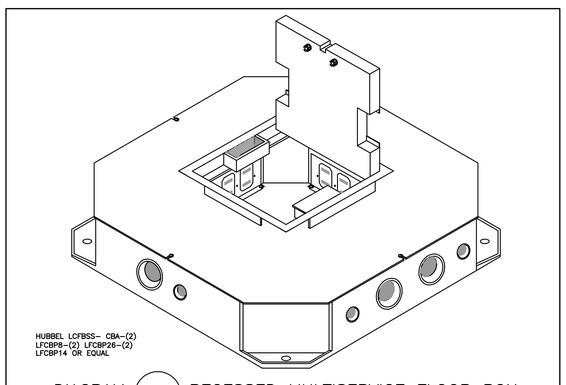


DIAGRAM L007 RECESSED MULTISERVICE FLOOR BOX
NTS

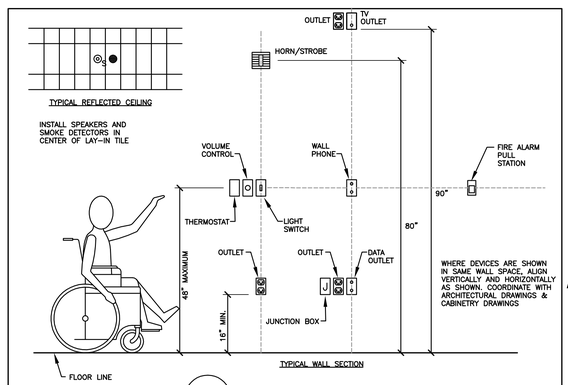
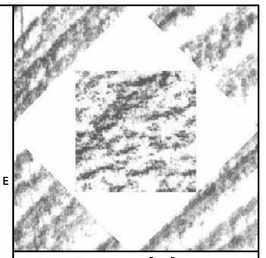


DIAGRAM R001 DEVICE MOUNTING HEIGHTS
NTS



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MARK	DATE	DESCRIPTION
	x	x
	x	x
	x	x
	x	x
	x	x
	x	x
	x	x
	x	x

DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	10254A
DRAWN BY:	BNA
CHECKED BY:	RLW
DESIGNED BY:	RLW
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

ELECTRICAL DIAGRAMS

EX501

SHEET OF

By: bhammond, Feb 22, 2011 – 2:43pm
J:\2010\254A\DRAW\254A-EX501.dwg

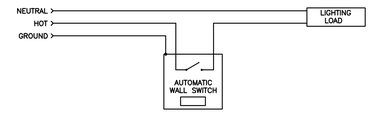
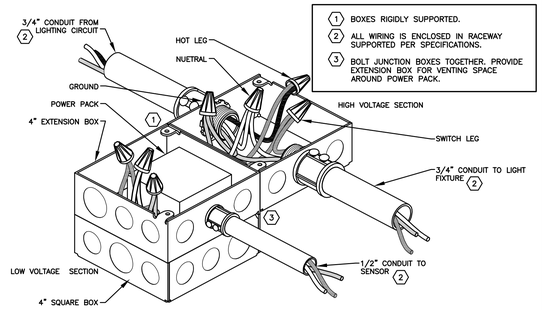
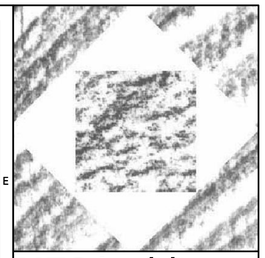


DIAGRAM S006 WALL SWITCH SENSOR
NTS



1 BOXES RIGIDLY SUPPORTED.
2 ALL WIRING IS ENCLOSED IN RACEWAY SUPPORTED PER SPECIFICATIONS.
3 BOLT JUNCTION BOXES TOGETHER. PROVIDE EXTENSION BOX FOR VENTING SPACE AROUND POWER PACK.

DIAGRAM S016 OCCUPANCY SENSOR POWER PACK
NTS



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MARK	DATE	DESCRIPTION
	x	x
	x	x
	x	x
	x	x
	x	x
	x	x
	x	x
	x	x

DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	10254A
DRAWN BY:	BNA
CHECKED BY:	RLW
DESIGNED BY:	RLW
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

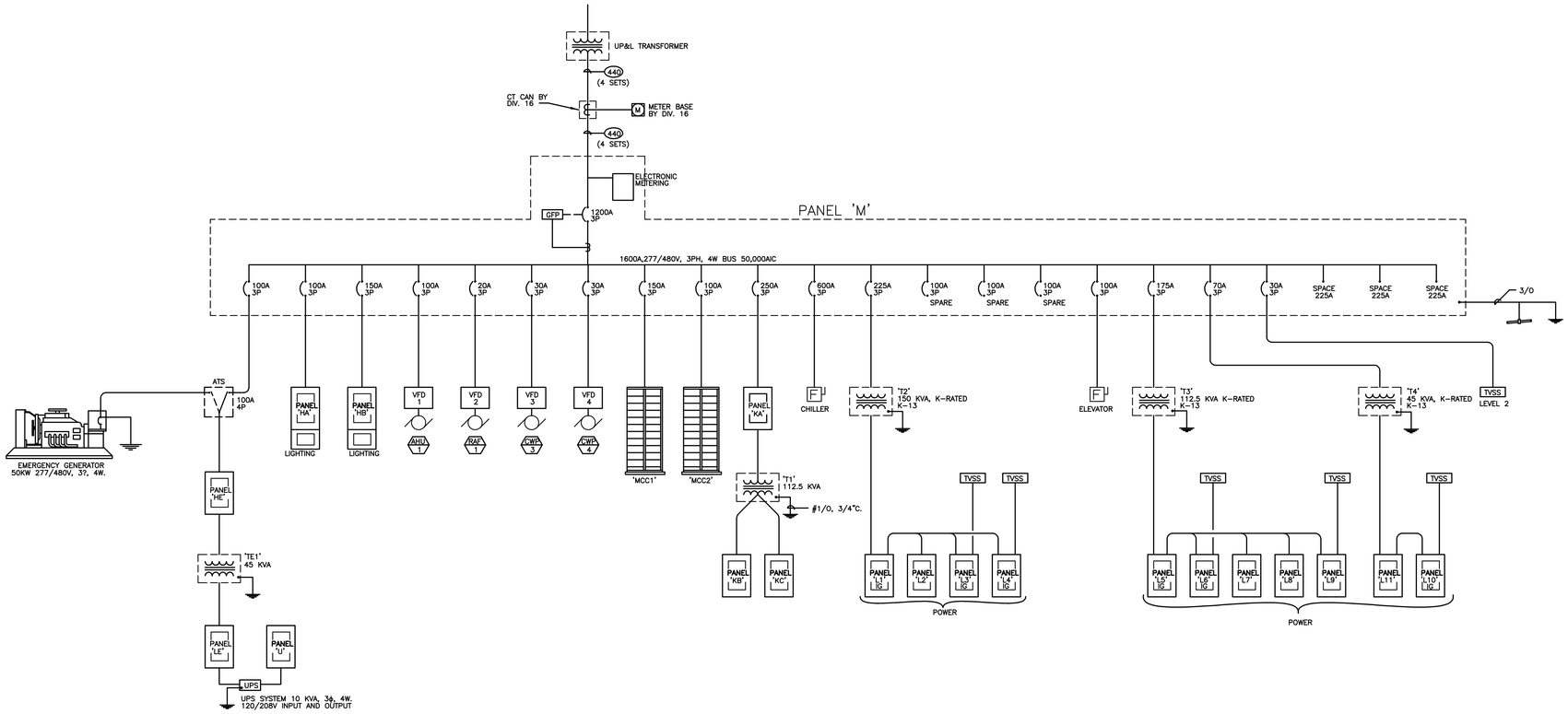
SHEET TITLE

ELECTRICAL DIAGRAMS

EX502

SHEET OF

By: bhammond, Feb 22, 2011 – 2:44pm
J:\2010\254A\DRAW\254A-IEX502.dwg



1 ONE-LINE DIAGRAM
NO SCALE

COPPER CONDUCTOR & CONDUIT SCHEDULE

TYPE	AMP.	COND. SIZE	CONDUCTOR QUAN.	CONDUCTOR SIZE	INSUL-ATION	EQ. GND. COND.
20	30	3/4"	2	10	THHN THWN	10
30	30	3/4"	3	10	THHN THWN	10
40	30	3/4"	4	10	THHN THWN	10
28	40	3/4"	2	8	THHN THWN	10
38	40	3/4"	3	8	THHN THWN	10
48	40	3/4"	4	8	THHN THWN	10
26	55	3/4"	2	6	THHN THWN	8
36	55	3/4"	3	6	THHN THWN	8
46	55	1"	4	6	THHN THWN	8
24	70	3/4"	2	4	THHN THWN	8
34	70	1"	3	4	THHN THWN	8
44	70	1-1/4"	4	4	THHN THWN	8
23	85	1"	2	3	THHN THWN	8
33	85	1"	3	3	THHN THWN	8
43	85	1-1/4"	4	3	THHN THWN	8
32	95	1-1/4"	3	2	THHN THWN	6
42	95	1-1/4"	4	2	THHN THWN	6
31	110	1-1/4"	3	1	THHN THWN	6
41	110	1-1/2"	4	1	THHN THWN	6
51	110	2"	5	1	THHN THWN	6
31X	150	1-1/2"	3	1/0	THHN THWN	6
41X	150	1-1/2"	4	1/0	THHN THWN	6
51X	150	2"	5	1/0	THHN THWN	6
32X	175	1-1/2"	3	2/0	THHN THWN	6
42X	175	2"	4	2/0	THHN THWN	6
52X	175	2"	5 *	2/0	THHN THWN	6
33X	200	2"	3	3/0	THHN THWN	6
43X	200	2"	4	3/0	THHN THWN	6
53X	200	2-1/2"	5	3/0	THHN THWN	6
34X	230	2"	3	4/0	THHN THWN	4
44X	230	2-1/2"	4	4/0	THHN THWN	4
54X	230	2-1/2"	5	4/0	THHN THWN	4
325	255	2"	3	250	THHN THWN	4
425	255	2-1/2"	4	250	THHN THWN	4
525	255	2-1/2"	5	250	THHN THWN	4
335	310	2-1/2"	3	350	THHN THWN	3
435	310	3"	4	350	THHN THWN	3
535	310	3"	5	350	THHN THWN	3
340	335	3"	3	400	THHN THWN	3
440	335	3"	4	400	THHN THWN	3
540	335	3"	5	400	THHN THWN	3
350	380	3-1/2"	3	500	XHHW	3
450	380	3-1/2"	4	500	XHHW	3
550	380	3-1/2"	5	500	XHHW	3

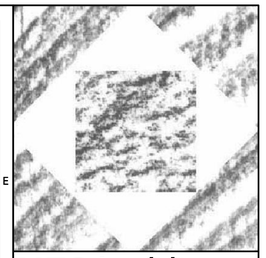
COPPER CONDUCTOR & CONDUIT SCHEDULE FOR PARALLEL RUNS

TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUCTOR SIZE	CONDUIT SIZE	EQ. GND. COND.
325-2	600	510	2	3	250	2-1/2"	1
425-2	600	510	2	4	250	2-1/2"	1
525-2	600	510	2	5	250	2-1/2"	1
435-2	700	620	2	4	350	3"	1/0
440-2	700	670	2	4	400	3"	1/0
350-2	800	760	2	3	500	3"	1/0
450-2	800	760	2	4	500	4"	1/0
550-2	800	760	2	5	500	4"	1/0
460-2	800	840	2	4	600	4"	1/0
335-3	900	930	3	3	350	3"	2/0
435-3	900	930	3	4	350	3"	2/0
535-3	900	930	3	5 *	350	3"	2/0
340-3	1000	1005	3	3	400	3"	2/0
440-3	1000	1005	3	4	400	3"	2/0
540-3	1000	1005	3	5	400	3"	2/0
435-4	1200	1240	4	4	350	3"	3/0
535-4	1200	1240	4	5	350	3"	3/0
460-3	1200	1260	3	4	600	4"	3/0
335-5	1500	1550	5	3	350	3"	4/0
440-5	1600	1675	5	4	400	3"	4/0
540-5	1600	1675	5	5	400	3"	4/0
460-4	1600	1680	4	4	600	4"	4/0
440-8	2000	2010	6	4	400	3"	250
460-8	2500	2520	6	4	600	4"	350
450-8	3000	3040	8	4	500	4"	400
450-11	4000	4180	11	4	500	4"	500

NOTES
IN PARALLEL RUNS SIZE GND. COND. IN ACCORDANCE WITH NEC PARA. 250-122.

GND. CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS

* 200% NEUTRAL



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OREM, UTAH 84058

MARK	DATE	DESCRIPTION
	x	x
	x	x
	x	x
	x	x
	x	x
	x	x
	x	x
	x	x

DATE:	22 FEBRUARY 2011
DFCM PROJECT NO:	10295790
HFSA PROJECT NO:	1038.01
CAD DWG FILE NO:	10254A
DRAWN BY:	BNA
CHECKED BY:	RLW
DESIGNED BY:	RLW
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

ONE-LINE DIAGRAM

EX601

SHEET OF

By: bhammond, Feb 22, 2011 – 2:44pm
J:\2010\254A\DRAW\254A-mEX601.dwg

PANELBOARD SCHEDULE

PANEL: HB | TYPE: EXISTING | 277/480 VOLTS | 3 PH | 4 W

MOUNTING: ___ FLUSH, X SURFACE | DIMENSIONS: 20 W, 6 D (in.), ___ H | LOCATION: ELECTRICAL | AMP: 225

MAINS: X LUGS, ___ BREAKER, ___ SUBFEED LUGS, ___ ISO GROUND, ___ 200% NEUTRAL

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
EXISTING LOAD	20	1		1							2	20	1		EXISTING LOAD
EXISTING LOAD	20	1		3							4	20	1		EXISTING LOAD
EXISTING LOAD	20	1		5							6	20	1		EXISTING LOAD
EXISTING LOAD	20	1		7							8	20	1		EXISTING LOAD
EXISTING LOAD	20	1		9							10	20	1		EXISTING LOAD
EXISTING LOAD	20	1		11							12	20	1		EXISTING LOAD
EXISTING LOAD	20	1		13							14	20	1		EXISTING LOAD
EXISTING LOAD	20	1		15							16	20	1		EXISTING LOAD
EXISTING LOAD	20	1		17							18	20	1		EXISTING LOAD
EXISTING LOAD	20	1		19							20	20	1		EXISTING LOAD
EXISTING LOAD	30	3		21							22	20	1		EXISTING LOAD
-	-	-		23							24	20	1		EXISTING LOAD
-	-	-		25							26	20	1		SPARE
EXISTING LOAD	30	3		27							28	20	1		SPARE
-	-	-		29							30	20	1		SPARE
-	-	-		31							32	20	1		SPARE
SPACE ONLY				33							34	20	1		SPARE
SPACE ONLY				35							36	20	1		SPARE
SPACE ONLY				37							38	20	1		SPARE
LIGHTING *	20	1	10	39		1750					40	20	1		SPARE
LIGHTING *	20	1	12	41			3805				42	20	1		SPARE
					0	1750	3805	0	0	0					
					0	1750	3805	TOTAL							
					0	6	14	AMPS/PHASE							

CONNECTED LOAD TOTAL: 5555 VA

EQUIP RATING: ___ AMPS RMS SYM.

* PROVIDE NEW BREAKER

PROJECT NAME: UVU WEST CAMPUS

PANELBOARD SCHEDULE

PANEL: KB | TYPE: EXISTING | 120/208 VOLTS | 3 PH | 4 W

MOUNTING: ___ FLUSH, X SURFACE | DIMENSIONS: 20 W, 6 D (in.), ___ H | LOCATION: ELECTRICAL | AMP: 150

MAINS: ___ LUGS, X BREAKER, ___ SUBFEED LUGS, ___ ISO GROUND, ___ 200% NEUTRAL

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
EXISTING LOAD	20	1		1							2	20	1		EXISTING LOAD
EXISTING LOAD	20	1		3							4	20	3		EXISTING LOAD
EXISTING LOAD	20	1		5							6	-	-		-
EXISTING LOAD	30	2		7							8	-	-		-
-	-	-		9							10	20	3		EXISTING LOAD
EXISTING LOAD	20	1		11							12	-	-		-
EXISTING LOAD	20	1		13							14	-	-		-
EXISTING LOAD	20	1		15							16	20	1		EXISTING LOAD
RECEPTACLES	20	1	12	17			1000				18	20	1		EXISTING LOAD
RECEPTACLES	20	1	12	19	1000						20	20	1		EXISTING LOAD
RECEPTACLES	20	1	12	21		1000					22	20	1		EXISTING LOAD
RECEPTACLES	20	1	12	23			1000				24	20	1		EXISTING LOAD
RECEPTACLES	20	1	12	25	1000						26				SPACE ONLY
RECEPTACLES	20	1	12	27		1000					28				SPACE ONLY
RECEPTACLES	20	1	12	29			1000				30				SPACE ONLY
RECEPTACLES *	20	1	12	31	1200						32				SPACE ONLY
SPACE ONLY				33							34				SPACE ONLY
SPACE ONLY				35							36				SPACE ONLY
SPACE ONLY				37							38				SPACE ONLY
SPACE ONLY				39							40				SPACE ONLY
SPACE ONLY				41							42				SPACE ONLY
					3200	2000	3000	0	0	0					
					3200	2000	3000	TOTAL							
					27	17	25	AMPS/PHASE							

CONNECTED LOAD TOTAL: 8200 VA

EQUIP RATING: ___ AMPS RMS SYM.

* PROVIDE NEW BREAKER

PROJECT NAME: UVU WEST CAMPUS

PANELBOARD SCHEDULE

PANEL: KC | TYPE: EXISTING | 120/208 VOLTS | 3 PH | 4 W

MOUNTING: ___ FLUSH, X SURFACE | DIMENSIONS: 20 W, 6 D (in.), ___ H | LOCATION: ELECTRICAL | AMP: 225

MAINS: ___ LUGS, X BREAKER, ___ SUBFEED LUGS, ___ ISO GROUND, ___ 200% NEUTRAL

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
EXISTING LOAD	20	1		1							2	20	1		EXISTING LOAD
EXISTING LOAD	20	3		3							4	20	1		EXISTING LOAD
-	-	-		5							6	20	1		EXISTING LOAD
-	-	-		7							8	50	2		EXISTING LOAD
EXISTING LOAD	70	3		9							10	-	-		-
-	-	-		11							12	20	3		EXISTING LOAD
-	-	-		13							14	-	-		-
EXISTING LOAD	70	3		15							16	-	-		-
-	-	-		17							18	20	1		EXISTING LOAD
-	-	-		19				1175			20	20	1	12	MOTORIZED SCREEN *
EXISTING LOAD	20	1		21					800		22	20	1	12	RECEPTACLES *
EXISTING LOAD	20	1		23						800	24	20	1	12	RECEPTACLES *
RECEPTACLES *	20	1	12	25	1000			600			26	20	1	12	RECEPTACLES *
RECEPTACLES *	20	1	12	27		800			1000		28	20	1	12	RECEPTACLES *
RECEPTACLES *	20	1	12	29			800			1000	30	20	1	12	RECEPTACLES *
RECEPTACLES *	20	1	12	31	800			600			32	20	1	12	RECEPTACLES *
SPACE ONLY				33					500		34	20	1	12	VAV BOX *
SPACE ONLY				35							36				SPACE ONLY
SPACE ONLY				37							38				SPACE ONLY
SPACE ONLY				39							40				SPACE ONLY
SPACE ONLY				41							42				SPACE ONLY
					1800	800	800	2375	2300	1800					
					4175	3100	2600	TOTAL							
					35	26	22	AMPS/PHASE							

CONNECTED LOAD TOTAL: 9875 VA

EQUIP RATING: ___ AMPS RMS SYM.

* PROVIDE NEW BREAKER

PROJECT NAME: UVU WEST CAMPUS

PANELBOARD SCHEDULE

PANEL: L2 | TYPE: EXISTING | 120/208 VOLTS | 3 PH | 4 W

MOUNTING: ___ FLUSH, X SURFACE | DIMENSIONS: 20 W, 6 D (in.), ___ H | LOCATION: ELECTRICAL | AMP: 225

MAINS: X LUGS, ___ BREAKER, ___ SUBFEED LUGS, ___ ISO GROUND, ___ 200% NEUTRAL

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
EXISTING LOAD	20	1		1							2	20	1		EXISTING LOAD
EXISTING LOAD	20	1		3							4	20	1		EXISTING LOAD
EXISTING LOAD	20	1		5							6	20	1		EXISTING LOAD
EXISTING LOAD	20	1		7							8	20	1		EXISTING LOAD
EXISTING LOAD	20	1		9							10	20	1		EXISTING LOAD
EXISTING LOAD	20	1		11							12	20	1		EXISTING LOAD
EXISTING LOAD	20	1		13							14	20	1		EXISTING LOAD
EXISTING LOAD	20	1		15							16	20	1		EXISTING LOAD
EXISTING LOAD	20	1		17							18	20	1		EXISTING LOAD
EXISTING LOAD	20	1		19							20	20	1		EXISTING LOAD
EXISTING LOAD	20	1		21							22	20	1		EXISTING LOAD
EXISTING LOAD	20	1		23							24	20	1		EXISTING LOAD
EXISTING LOAD	20	1		25							26	20	1		EXISTING LOAD
EXISTING LOAD	20	1		27							28	20	1		EXISTING LOAD
EXISTING LOAD	20	1		29							30	20	1		EXISTING LOAD
EXISTING LOAD	20	1		31							32	20	1		EXISTING LOAD
SPARE	20	1		33							34	20	1		SPARE
SPARE	20	1		35							36	20	1		SPARE
RECEPTACLES	20	1	10	37	1000			1000			38	20	1	10	RECEPTACLES
RECEPTACLES	20	1	10	39		1000			1000		40	20	1	10	RECEPTACLES
RECEPTACLES	20	1	10	41			1000			1000	42	20	1	10	RECEPTACLES
					1000	1000	1000	1000	1000	1000					
					2000	2000	2000	TOTAL							
					17	17	17	AMPS/PHASE							

CONNECTED LOAD TOTAL: 6000 VA

EQUIP RATING: ___ AMPS RMS SYM.

PROJECT NAME: UVU WEST CAMPUS

PANELBOARD SCHEDULE

PANEL: L3 | TYPE: EXISTING | 120/208 VOLTS | 3 PH | 4 W

MOUNTING: ___ FLUSH, X SURFACE | DIMENSIONS: 20 W, 6 D (in.), ___ H | LOCATION: ELECTRICAL | AMP: 225

MAINS: X LUGS, ___ BREAKER, ___ SUBFEED LUGS, ___ ISO GROUND, ___ 200% NEUTRAL

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
EXISTING LOAD	20	1		1							2	30	3		EXISTING LOAD
EXISTING LOAD	20	1		3							4	-	-		-
EXISTING LOAD	20	1		5							6	-	-		-
EXISTING LOAD	20	1		7							8	20	2		EXISTING LOAD
EXISTING LOAD	20	1		9							10	-	-		-
EXISTING LOAD	20	1		11							12	20	2		EXISTING LOAD
EXISTING LOAD	20	1		13							14	-	-		-
EXISTING LOAD	20	1		15							16	20	2		EXISTING LOAD
EXISTING LOAD	20	1		17							18	-	-		-
EXISTING LOAD	20	1		19							20	20	2		EXISTING LOAD
EXISTING LOAD	20	1		21							22	-	-		-
EXISTING LOAD	20	1		23							24	20	1		EXISTING LOAD
EXISTING LOAD	20	1		25							26	20	1		EXISTING LOAD
EXISTING LOAD	20	1		27							28	20	1		EXISTING LOAD
EXISTING LOAD	20	1		29							30	20	1		EXISTING LOAD
EXISTING LOAD	20	1		31				865			32	20	1	10	REFRIGERATOR
EF-1	20	1	10	33		525			500		34	20	1	10	RECEPTACLES
DRYER	30	2	8	35			2400				36	20	1		SPARE
-	-	-	-	37	2400			500			38	20	1	10	RECEPTACLES
WASHER	20	1	10	39		1175			500		40	20	1	10	RECEPTACLES
RECEPTACLES	20	1	10	41			800			500	42	20	1	10	RECEPTACLES
					2400	1700	3200	1365	1000	500					
					3765	2700	3700	TOTAL							
					31	23	31	AMPS/PHASE							

CONNECTED LOAD TOTAL: 10165 VA

EQUIP RATING: ___ AMPS RMS SYM.

* PROVIDE NEW BREAKER

PROJECT NAME: UVU WEST CAMPUS

PANELBOARD SCHEDULE

PANEL: L4 | TYPE: EXISTING | 120/208 VOLTS | 3 PH | 4 W

MOUNTING: ___ FLUSH, X SURFACE | DIMENSIONS: 20 W, 6 D (in.), ___ H | LOCATION: ELECTRICAL | AMP: 225

MAINS: X LUGS, ___ BREAKER, ___ SUBFEED LUGS, ___ ISO GROUND, ___ 200% NEUTRAL

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
EXISTING LOAD	20	1		1							2	30	3		SPACE ONLY
EXISTING LOAD	20	1		3							4	-	-		SPACE ONLY
EXISTING LOAD	20	1		5							6	-	-		SPACE ONLY
EXISTING LOAD	20	1		7							8	20	1		SPACE ONLY
EXISTING LOAD	20	1		9							10	20	1		SPACE ONLY
EXISTING LOAD	20	1		11							12	20	1		SPACE ONLY
EXISTING LOAD	20	1		13							14	20	1		SPACE ONLY
EXISTING LOAD	20	1		15							16	20	1		SPACE ONLY
EXISTING LOAD	20	1		17							18	20	1		SPACE ONLY
EXISTING LOAD	20	1		19							20	20	1		SPACE ONLY
EXISTING LOAD	20	1		21							22	20	1		SPACE ONLY
EXISTING LOAD	20	1		23							24	20	1		SPACE ONLY
EXISTING LOAD	20	1		25							26	20	1		SPACE ONLY
EXISTING LOAD	20	2		27							28	20	1		SPACE ONLY
-	-	-		29							30	20	1		SPACE ONLY
EXISTING LOAD	20	1		31				1000			32	20	1	12	RECEPTACLES
EXISTING LOAD	20	1		33					1000		34	20	1	12	RECEPTACLES
EXISTING LOAD	20	1		35						1000	36	20	1	12	RECEPTACLES
EXISTING LOAD	20	1		37				1000			38	20	1	12	RECEPTACLES
RECEPTACLES *	20	1	12	39		800			1000		40	20	1	12	RECEPTACLES
RECEPTACLES *	20	1	12	41			600			1000	42	20	1	12	RECEPTACLES
					0	800	600	2000	2000	2000					
					2000	2800	2600	TOTAL							
					17	23	22	AMPS/PHASE							

CONNECTED LOAD TOTAL: 7400 VA

EQUIP RATING: ___ AMPS RMS SYM.

* PROVIDE NEW BREAKER

PROJECT NAME: UVU WEST CAMPUS

PANELBOARD SCHEDULE

PANEL: HA | TYPE: EXISTING | 277/480 VOLTS | 3 PH | 4 W

MOUNTING: ___ FLUSH, X SURFACE | DIMENSIONS: 20 W, 6 D (in.), ___ H | LOCATION: ELECTRICAL ROOM | AMP: 125

MAINS: X LUGS, ___ BREAKER, ___ SUBFEED LUGS, ___ ISO GROUND, ___ 200% NEUTRAL

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
EXISTING LOAD	20	3		1							2	20	3		EXISTING LOAD
-	-	-		3							4	-	-		-
-	-	-		5							6	-	-		-
EXISTING LOAD	20	3		7							8	20	3		EXISTING LOAD
-	-	-		9							10	-	-		-
-	-	-		11							12	-	-		-
EXISTING LOAD	20	1		13							14	20	3		EXISTING LOAD
EXISTING LOAD	20	1		15							16	-	-		-
EXISTING LOAD	20	1		17							18	-	-		-
EXISTING LOAD	20	1		19							20	20	1		EXISTING LOAD
EXISTING LOAD	20	1		21							22	20	1		EXISTING LOAD
EXISTING LOAD	20	1		23							24	20	1		EXISTING LOAD
EXISTING LOAD	20	1		25							26	20	1		EXISTING LOAD
EXISTING LOAD	20	1		27							28	20	1		EXISTING LOAD
EXISTING LOAD	20	1		29							30	20	1		EXISTING LOAD
SPARE	20	1		31							32	20	1		SPARE
SPARE	20	1		33							34	20	1		SPARE
SPARE	20	1		35							36	20	1		SPARE
VP-1 VACUUM PUMP *	20	3	12	37	940						38	20	1		SPARE
-	-	-	-	39		940					40	20	1		SPARE
-	-	-	-	41			940				42	20	1		SPARE
					940	940	940	0	0	0					
					940	940	940	TOTAL							
					3	3	3	AMPS/PHASE							

CONNECTED LOAD TOTAL: 2820 VA

EQUIP RATING: ___ AMPS RMS SYM.

PROJECT NAME: UVU WEST CAMPUS

PANELBOARD SCHEDULE

PANEL: L6 | TYPE: EXISTING | 120/208 VOLTS | 3 PH | 4 W

MOUNTING: ___ FLUSH, X SURFACE | DIMENSIONS: 20 W, 6 D (in.), ___ H | LOCATION: ELECTRICAL | AMP: 100

MAINS: X LUGS, ___ BREAKER, ___ SUBFEED LUGS, ___ ISO GROUND, ___ 200% NEUTRAL

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
EXISTING LOAD	20	1		1							2	30	3		EXISTING LOAD
EXISTING LOAD	20	1		3							4	-	-		-
EXISTING LOAD	20	1		5							6	-	-		-
EXISTING LOAD	20	1		7							8	20	1		EXISTING LOAD
EXISTING LOAD	20	1		9							10	20	1		EXISTING LOAD
EXISTING LOAD	20	1		11							12	20	1		EXISTING LOAD
EXISTING LOAD	20	1		13							14	20	1		EXISTING LOAD
EXISTING LOAD	20	1		15							16	20	1		EXISTING LOAD
EXISTING LOAD	20	1		17							18	20	1		EXISTING LOAD
EXISTING LOAD	20	1		19							20	20	1		EXISTING LOAD
EXISTING LOAD	20	1		21							22	20	1		EXISTING LOAD
EXISTING LOAD	20	1		23							24	20	1		EXISTING LOAD
EXISTING LOAD	20	1		25							26	20	1		EXISTING LOAD
EXISTING LOAD	20	1		27							28	20	1		EXISTING LOAD
EXISTING LOAD	20	1		29							30	20	1		EXISTING LOAD
RECEPTACLES	20	1	12	31	800						32	20	1		SPARE
RECEPTACLES	20	1	12	33		1000			800		34	20	1		RECEPTACLES
COPIER	20	1	12	35			1000			600	36	20	1		RECEPTACLES
RECEPTACLES	20	1	12	37	800			1000			38	20	1		RECEPTACLES
REFRIGERATOR	20	1	12	39		865			800		40	20	1		RECEPTACLES
RECEPTACLES	20	1	12	41			800			100	42	20	1		LIGHTING
					1600	1865	1800	1000	1600	700					
					2600	3465	2500	TOTAL							
					22	29	21	AMPS/PHASE							

CONNECTED LOAD TOTAL: 8565 VA

EQUIP RATING: ___ AMPS RMS SYM.

PROJECT NAME: UVU WEST CAMPUS

PANELBOARD SCHEDULE

PANEL: L7 | TYPE: EXISTING | 120/208 VOLTS | 3 PH | 4 W

MOUNTING: ___ FLUSH, X SURFACE | DIMENSIONS: 20 W, 6 D (in.), ___ H | LOCATION: ELECTRICAL | AMP: 100

MAINS: X LUGS, ___ BREAKER, ___ SUBFEED LUGS, ___ ISO GROUND, ___ 200% NEUTRAL

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
EXISTING LOAD	20	1		1							2	20	1		EXISTING LOAD
EXISTING LOAD	20	1		3							4	20	1		EXISTING LOAD
EXISTING LOAD	20	1		5							6	20	1		EXISTING LOAD
EXISTING LOAD	20	1		7							8	20	1		EXISTING LOAD
EXISTING LOAD	20	1		9							10	20	1		EXISTING LOAD
EXISTING LOAD	20	1		11							12	20	1		EXISTING LOAD
EXISTING LOAD	20	1		13							14	20	1		EXISTING LOAD
EXISTING LOAD	20	1		15							16	20	1		EXISTING LOAD
EXISTING LOAD	20	1		17							18	20	1		EXISTING LOAD
EXISTING LOAD	20	1		19							20	20	1		EXISTING LOAD
EXISTING LOAD	20	1		21							22	20	1		EXISTING LOAD
EXISTING LOAD	20	1		23							24	20	1		EXISTING LOAD
EXISTING LOAD	20	1		25							26	20	1		EXISTING LOAD
EXISTING LOAD	20	1		27							28	20	1		EXISTING LOAD
EXISTING LOAD	20	1		29							30	20	1		EXISTING LOAD
SPARE	20	1		31							32	20	1		SPARE
SPARE	20	1		33					800		34	20	1	10	RECEPTACLES
SPARE	20	1		35						800	36	20	1	10	RECEPTACLES
SPARE	20	1		37				600			38	20	1	10	RECEPTACLES
SPARE	20	1		39					500		40	20	1	10	RECEPTACLES
SPARE	20	1		41						800	42	20	1	10	RECEPTACLES
					0	0	0	600	1300	1600					
					600	1300	1600	TOTAL							
					5	11	13	AMPS/PHASE							

CONNECTED LOAD TOTAL: 3500 VA

EQUIP RATING: ___ AMPS RMS SYM.

PROJECT NAME: UVU CAMPUS

PANELBOARD SCHEDULE

PANEL: L9 | TYPE: EXISTING | 120/208 VOLTS | 3 PH | 4 W

MOUNTING: ___ FLUSH, X SURFACE | DIMENSIONS: 20 W, 6 D (in.), ___ H | LOCATION: ELECTRICAL | AMP: 225

MAINS: X LUGS, ___ BREAKER, ___ SUBFEED LUGS, ___ ISO GROUND, ___ 200% NEUTRAL

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
EXISTING LOAD	20	1		1							2	30	3		EXISTING LOAD
EXISTING LOAD	20	1		3							4	-	-		-
EXISTING LOAD	20	1		5							6	-	-		-
EXISTING LOAD	20	1		7							8	20	1		EXISTING LOAD
EXISTING LOAD	20	1		9							10	20	1		EXISTING LOAD
EXISTING LOAD	20	1		11							12	20	1		EXISTING LOAD
EXISTING LOAD	20	1		13							14	20	1		EXISTING LOAD
EXISTING LOAD	20	1		15							16	20	1		EXISTING LOAD
EXISTING LOAD	20	1		17							18	20	1		EXISTING LOAD
EXISTING LOAD	20	1		19							20	20	1		EXISTING LOAD
EXISTING LOAD	20	1		21							22	20	1		EXISTING LOAD
EXISTING LOAD	20	1		23							24	20	1		EXISTING LOAD
EXISTING LOAD	20	1		25							26	20	1		EXISTING LOAD
EXISTING LOAD	20	1		27							28	20	1		EXISTING LOAD
EXISTING LOAD	20	1		29							30	20	1		EXISTING LOAD
EXISTING LOAD	20	1		31							32	20	1		EXISTING LOAD
RECEPTACLES	20	1	12	33		800					34	20	1		EXISTING LOAD
MOTORIZED SCREEN	20	1	12	35			1175				36	20	1		EXISTING LOAD
RECEPTACLES	20	1	12	37	1000						38	20	1		EXISTING LOAD
RECEPTACLES	20	1	12	39		500					40	20	1		EXISTING LOAD
RECEPTACLES	20	1	12	41			600				42	20	1		EXISTING LOAD
					1000	1300	1775	0	0	0					
					1000	1300	1775	TOTAL							
					8	11	15	AMPS/PHASE							

CONNECTED LOAD TOTAL: 4075 VA

EQUIP RATING: ___ AMPS RMS SYM.

PROJECT NAME: UVU WEST CAMPUS

PANELBOARD SCHEDULE

PANEL: L10 | TYPE: EXISTING | 120/208 VOLTS | 3 PH | 4 W

MOUNTING: ___ FLUSH, X SURFACE | DIMENSIONS: 20 W, 6 D (in.), ___ H | LOCATION: ELECTRICAL | AMP: 225

MAINS: X LUGS, ___ BREAKER, ___ SUBFEED LUGS, ___ ISO GROUND, ___ 200% NEUTRAL

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
EXISTING LOAD	20	1		1							2	20	1		EXISTING LOAD
EXISTING LOAD	20	1		3							4	20	1		EXISTING LOAD
EXISTING LOAD	20	1		5							6	20	1		EXISTING LOAD
EXISTING LOAD	20	1		7							8	20	1		EXISTING LOAD
EXISTING LOAD	20	1		9							10	20	1		EXISTING LOAD
EXISTING LOAD	20	1		11							12	20	1		EXISTING LOAD
EXISTING LOAD	20	1		13							14	20	1		EXISTING LOAD
EXISTING LOAD	20	1		15							16	20	1		EXISTING LOAD
EXISTING LOAD	20	1		17							18	20	1		EXISTING LOAD
EXISTING LOAD	20	1		19							20	20	1		EXISTING LOAD
EXISTING LOAD	20	1		21							22	20	1		EXISTING LOAD
SPARE	20	1		23							24	20	1		EXISTING LOAD
SPARE	20	1		25							26	20	1		EXISTING LOAD
SPARE	20	1		27							28				SPACE ONLY
SPARE	20	1		29							30				SPACE ONLY
SPARE	20	1		31							32				SPACE ONLY
SPARE	20	1		33							34				SPACE ONLY
RECEPTACLES	20	1	10	35			1200				36				SPACE ONLY
RECEPTACLES	20	1	10	37	1000						38				SPACE ONLY
RECEPTACLES	20	1	10	39		800					40				SPACE ONLY
RECEPTACLES	20	1	10	41			1200				42				SPACE ONLY
					1000	800	2400	0	0	0					
					1000	800	2400	TOTAL							
					8	7	20	AMPS/PHASE							

CONNECTED LOAD TOTAL: 4200 VA

EQUIP RATING: ___ AMPS RMS SYM.

PROJECT NAME: UVU WEST CAMPUS

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UTAH VALLEY UNIVERSITY
WEST CAMPUS
INTERIOR IMPROVEMENTS

UTAH VALLEY UNIVERSITY
987 SOUTH GENEVA ROAD
OREM, UTAH 84058

MARK	DATE	DESCRIPTION
	x	x
	x	x
	x	x
	x	x
	x	x
	x	x
	x	x
	x	x

DATE: 22 FEBRUARY 2011
DFCM PROJECT NO: 10295790
HFSA PROJECT NO: 1038.01
CAD DWG FILE NO: 10254A
DRAWN BY: BNA
CHECKED BY: RLW
DESIGNED BY: RLW
DWG TYPE: ELECTRICAL
ARCHITECTURAL PHASE: CONSTRUCTION DOCUMENTS

SHEET TITLE

PANELBOARD SCHEDULES

EX602

SHEET OF

By: bhammond; Feb. 22, 2011 -- 2:44pm J:\2010\254A\DRAW\254A--nEX602.dwg