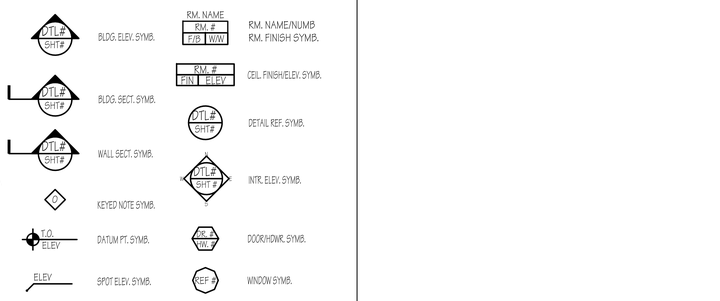
UTAH VALLEY UNIVERSITY

DENTAL LAB IMPROVEMENTS

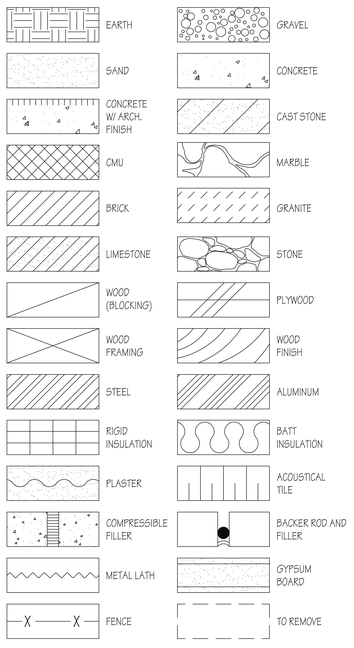
GENERAL ABBREVIATIONS

Act.	Accoustic Ceiling Tile	Galv	Galvanized	Q.T.	Quarry Tile
Alt.	Alternate	G.I.	Galvanized Iron	Rad.	Radius
Alum.	Aluminum	Ga.	Gauge	R.B.	Rubber Base
A.B.	Anchor Bolt	Gl.	Glass	R.W.L.	Rain Water Leader
&	And	Gr.	Grade	R.F.F.	Reference Finish Floor
Arch.	Architectural	Gnd.	Ground	Refl.	Reflected
@	At or At The	Gyp. Bd.	Gypsum Board	Reinf.	Reinforcing
Bm.	Beam	GWB	Gypsum Waterproof Board	Req.	Required
Blk.	Block	H.D.P.E.	High Density Polyethylene	Ret.	Retaining
Blkg.	Blocking	HG#	Hardware Group #	Rev.	Revised
Bd.	Board	Hdwd.	Hardwood	R.	Riser
Bot.	Bottom	Ht.	Height	R.D.	Roof Drain
Bldg.	Building	H.P.	High Points	Rm.	Room
Cpt.	Carpet	Horiz.	Horizontal	R.O.	Rough Opening
Clkg.	Caulking	H.B.	Hose Bibb	Sched.	Schedule
C.I.	Cast Iron	H.M.	Hollow Metal	Seal.	Sealant
Clg.	Ceiling	Hr.	Hours (Fire Rating)	Sect.	Section
Cem.	Cement	In.	Inch	S.Sk.	Service Sink
Ctr.	Center	I.D.	Inside Diameter	Sht.	Sheet
℄	Center Line	Insul.	Insulation	Sim.	Similar
Cer.	Ceramic	Int.	Interior	SL/Slp.	Slope
C.T.	Ceramic Tile	I.E.	Invert Elevation	S.C.	Solid Core
Cir.	Clear (ance)	Inv.	Invert Elevation	Spec.	Specifications
Clo.	Closet	Jan.	Janitor	Sq.	Square
Col.	Column	Jt.	Joint	Std.	Standard
Conc.	Concrete	J-Box	Junction Box	Stl.	Steel
CMU	Concrete Masonry Unit	Kit.	Kitchen	Stor.	Storage
CMP	Corrugated Metal Pipe	Lam.	Laminate	Struct	Structural/Structure
Conn.	Connection	Lav.	Lavatory	Sym.	Symmetrical
Constr.	Construction	Lt.	Light	T.B.R.	To be Removed
Cont.	Continue/Continuous	L.P.	Low Point	Tel.	Telephone
Contr.	Contractor	Matl.	Material	Temp.	Temporary/Tempered
C.J.	Control Joint	Mas.	Masonry	Thk.	Thick (ness)
Corr.	Corridor	Maint.	Maintenance	T & G	Tongue and Groove
Crtr.	Counter	Mfr.	Manufacturer	T/Conc	Top of Concrete
Csk.	Countersunk	M.H.	Manhole	T/Curb	Top of Curb
Det.	Detail	M.O.	Masonry Opening	T.O. FTG.	Top of Footing
Dept.	Department	Max.	Maximum	T.O.P.	Top of Plate
Dia.	Diameter	Mech.	Mechanical	T/Wall	Top of Wall
Dim.	Dimension	Membr.	Membrane	T.	Tread
Dn.	Down	Men	Men's Toilet	Typ.	Typical
D.S.	Downspout	Mtl/Met.	Metal	Unf.	Unfinished
Dwg.	Drawing	Min.	Minimum	U.N.O.	Unless Noted Otherwise
D.F.	Drinking Fountain	Mir.	Mirror	Var.	Vary or Varies
E.	East	Misc.	Miscellaneous	Vert.	Vertical
Ea.	Each	Mtd.	Mounted	V.T.R.	Vent Through Roof
Elec.	Electric (al)	Mul.	Mullion	VCT	Vinyl Composition Tile
Elev/El.	Elevation	Nom.	Nominal	w/	With
Exist.	Existing	N.	North	W.A.S.	Welded Anchor Stud
Eq.	Equal	N.I.C.	Not In Contract	Wd.	Wood
Equip.	Equipment	N.T.S.	Not To Scale	Wp.	Waterproof
Exist.	Existing	No. or #	Number	Wsct.	Wainscot
Exp.	Expansion	Off.	Office	w/o	Without
Ext.	Exterior	O.C.	On Center	W.P.	Working Point
Fin.	Finish	Opng.	Opening	W.R.	Water Resistant
F.A.	Fire Alarm	Opp.	Opposite	W.I.	Wrought Iron
F.E.	Fire Extinguiser	Opp. H.	Opposite Hand		
F.E.C.	F.E. Cabinet	O.D.	Outside Diameter		
Flr./FL	Floor	O.R.D.	Overflow Roof Drain		
F.D.	Floor Drain				
F.O.S.	Face of Stud				
F.O.W.	Face of Wall				
Ftg.	Footing				
Fdn.	Foundation				
F.F.	Finish Floor				

GRAPHIC SYMBOLS



MATERIALS LEGEND



CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2008
International Mechanical Code	2006	Uniform Code for Building Conservation	N/A
International Plumbing Code	2006	ADA Accessibility Guildelines	1994 ANSI A117.1 2003
International Fire Code	2006		
International Energy Conservation Code	2006		

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: N/A

H: Actual Area per Floor (square feet): N/A

I: Tabular Area: N/A

J: Area Modifications:

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

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: N/A
2) Two Story: $A_a(2)$ N/A
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.

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635 SOUTH STATE STREET
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(801) 532-2196, FAX (801) 532-2305

VICINITY MAP

DRAWING INDEX

ARCHITECTURAL DRAWINGS

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G1101	CODE PLAN	
AD101	DEMO PLAN	
AD111	DEMO REFLECTED CEILING PLAN	
AE101	FLOOR PLAN	
AE102	FURNITURE PLAN	
AE111	REFLECTED CEILING PLAN	
AE401	CASE WORK & DETAILS	
A601	DOOR SCHEDULE & DETAILS	

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MD-101	MECHANICAL DEMOLITION PLAN	
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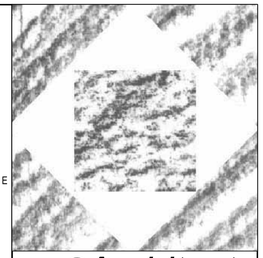
P-101	PLUMBING FLOOR PLAN	
FP-101	FIRE SPRINKLER FLOOR PLAN	

ELECTRICAL DRAWINGS

EG001	SYMBOLS, SCHEDULES & NOTES	
EL201	LIGHTING & DEMOLITION LIGHTING PLANS	
EP301	POWER & DEMOLITION POWER PLANS	
EX501	ELECTRICAL DIAGRAMS	C



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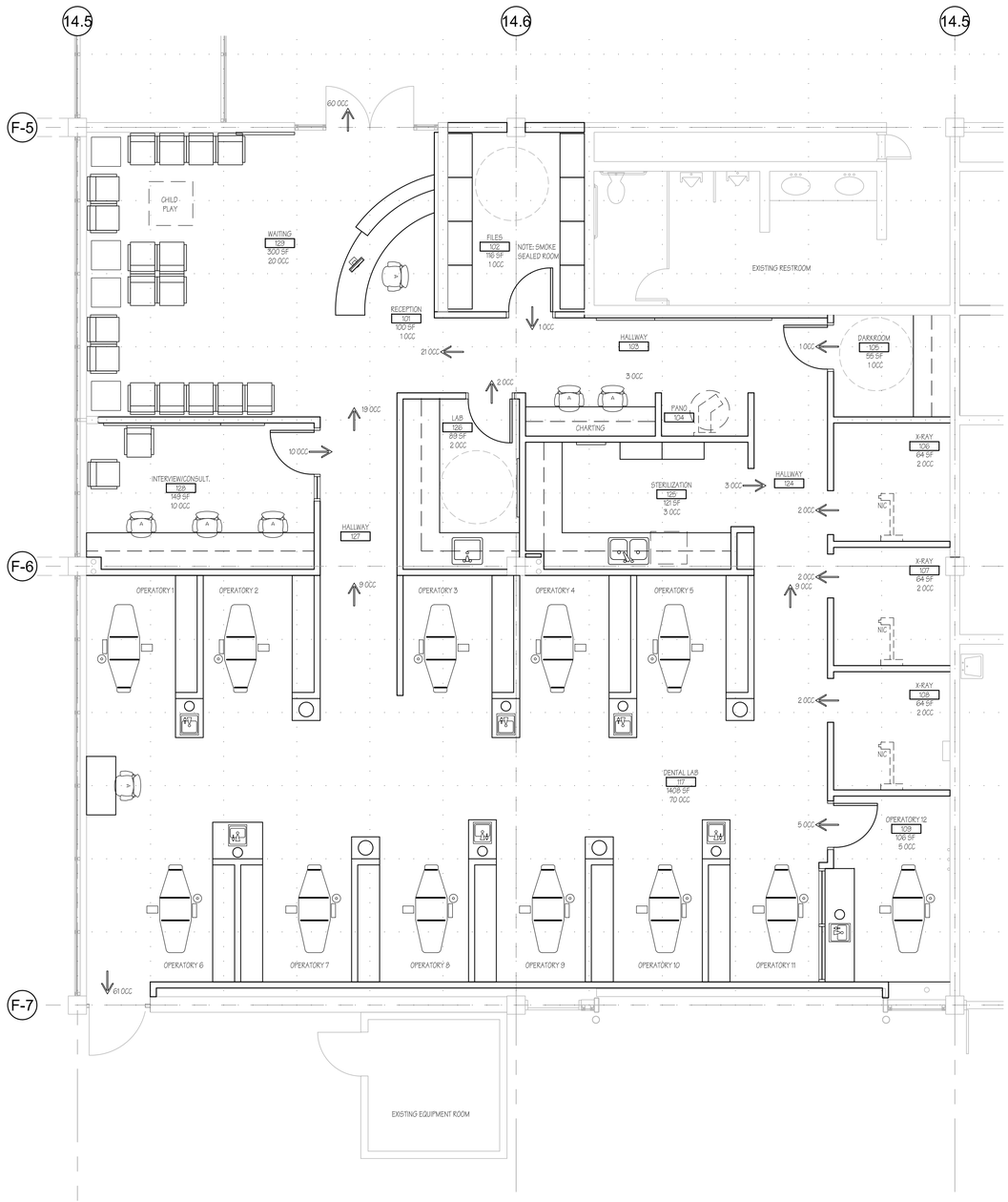
DRAWN BY:	
CHECKED BY:	
DESIGNED BY:	
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

GENERAL INFO
SHEET INDEX
& TITLE SHEET

GI001

SHEET OF



A4 CODE PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

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

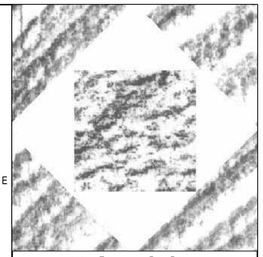
C. ALL WORK AND MATERIALS SHALL BE IN FULL CONFORMANCE WITH THE LATEST FEDERAL, STATE AND LOCAL CODES LAWS AND ORDINANCES. INCLUDING THEIR MOST RECENT REVISIONS, AMENDMENTS AND INTERPRETATIONS.

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 CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, POOL AND FOOD SERICE DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATE.

DEFERRED SUBMITTALS

1. FIRE SPRINKLER SYSTEM.	JUNE 2010
2. FIRE ALARM SYSTEM.	JUNE 2010
3. SEISMIC RESTRAINT FOR HVAC.	JUNE 2010
4. SEISMIC RESTRAINT FOR ELECTRICAL.	JUNE 2010



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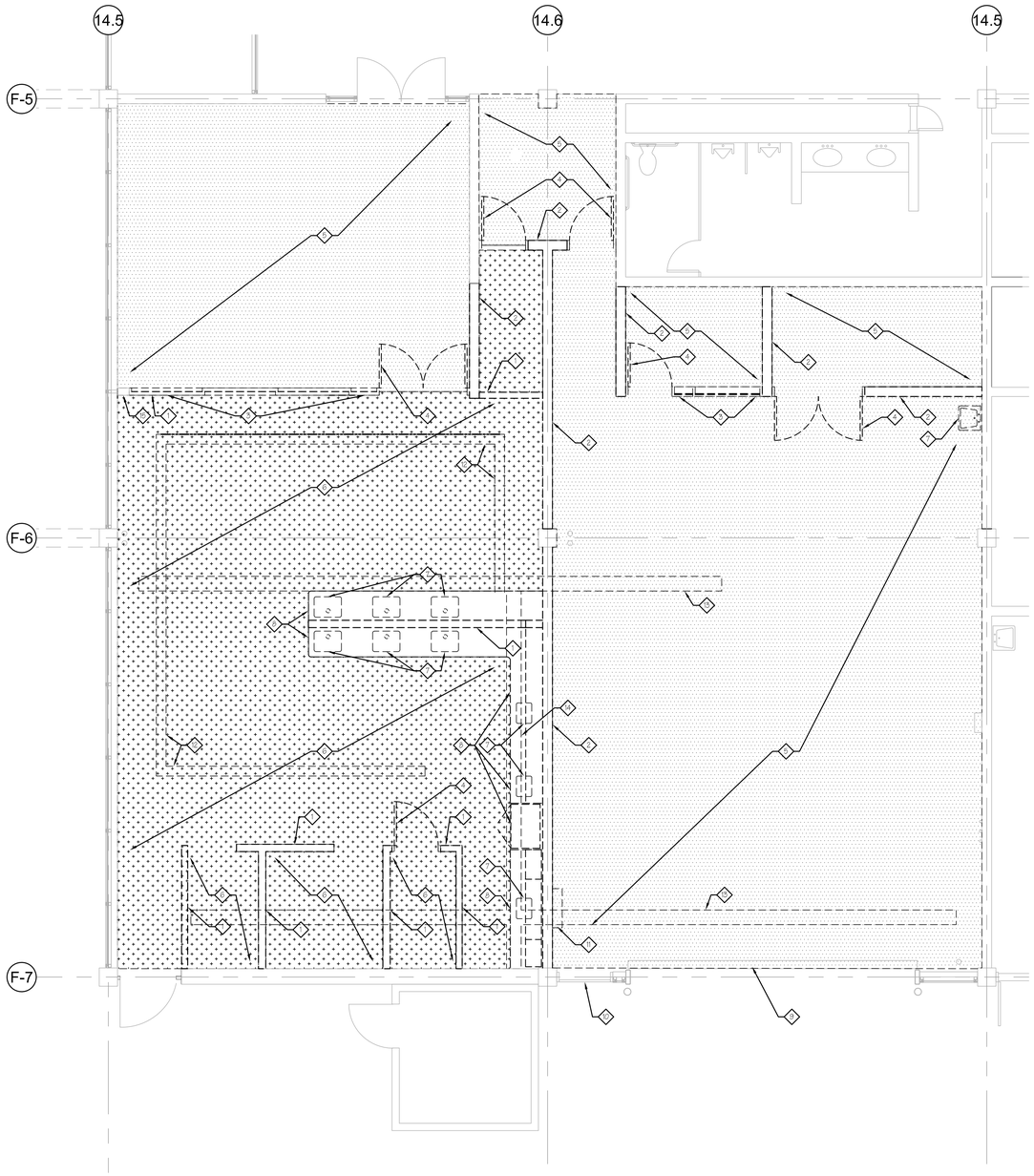
CODE PLAN

GI101

SHEET OF



A4 DEMO PLAN
SCALE: 1/8" = 1'-0"

GENERAL DEMO 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 DEMOLTION, 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 INDICATED TO REMAIN ARE TO BE REMOVED & THE HOLES PATCHED.

PLAN DEMOLITION LEGEND

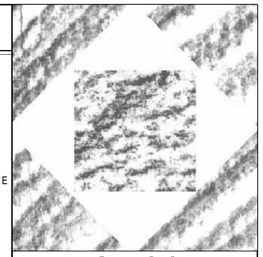
EXISTING WOOD DOOR & H.M. FRAME TO BE DEMOLISHED, TYPICAL

REMOVE VCT AND BASE (WHERE OCCURS) COMPLETE.

REMOVE CARPET AND BASE (WHERE OCCURS) COMPLETE.

DEMOLITION KEYED NOTES

1. REMOVE EXISTING GYPSUM BOARD WALLS COMPLETE.
2. REMOVE EXISTING CMU WALLS COMPLETE.
3. REMOVE EXISTING GLAZING SYSTEM COMPLETE.
4. REMOVE EXISTING DOOR SYSTEM COMPLETE.
5. REMOVE EXISTING CARPET & BASE COMPLETE - SALVAGE CARPET TILE FOR REINSTALLATION.
6. REMOVE EXISTING VCT COMPLETE.
7. REMOVE EXISTING PLUMBING FIXTURE COMPLETE.
8. REMOVE EXISTING CASEWORK COMPLETE.
9. EXISTING OVERHEAD DOOR REMAINS.
10. EXISTING DOOR REMAINS.
11. REMOVE VENT.
12. EXISTING UTILITY TRENCH - REMOVE COVER & PIPING.
13. SAWCUT CONCRETE FLOOR. REMOVE CONCRETE & TRENCH FOR NEW UTILITIES - SEE PLUMBING DRAWING.
14. SAWCUT CONCRETE FLOOR. REMOVE CONCRETE & TRENCH FOR NEW UTILITIES - SEE PLUMBING DRAWING. COORDINATE LOCATION W/ EXISTING TRENCH.
15. LEAVE END OF WALL & CLOSURE TO EXTERIOR WINDOW IN PLACE.



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SHEET TITLE

DEMO PLAN

AD101

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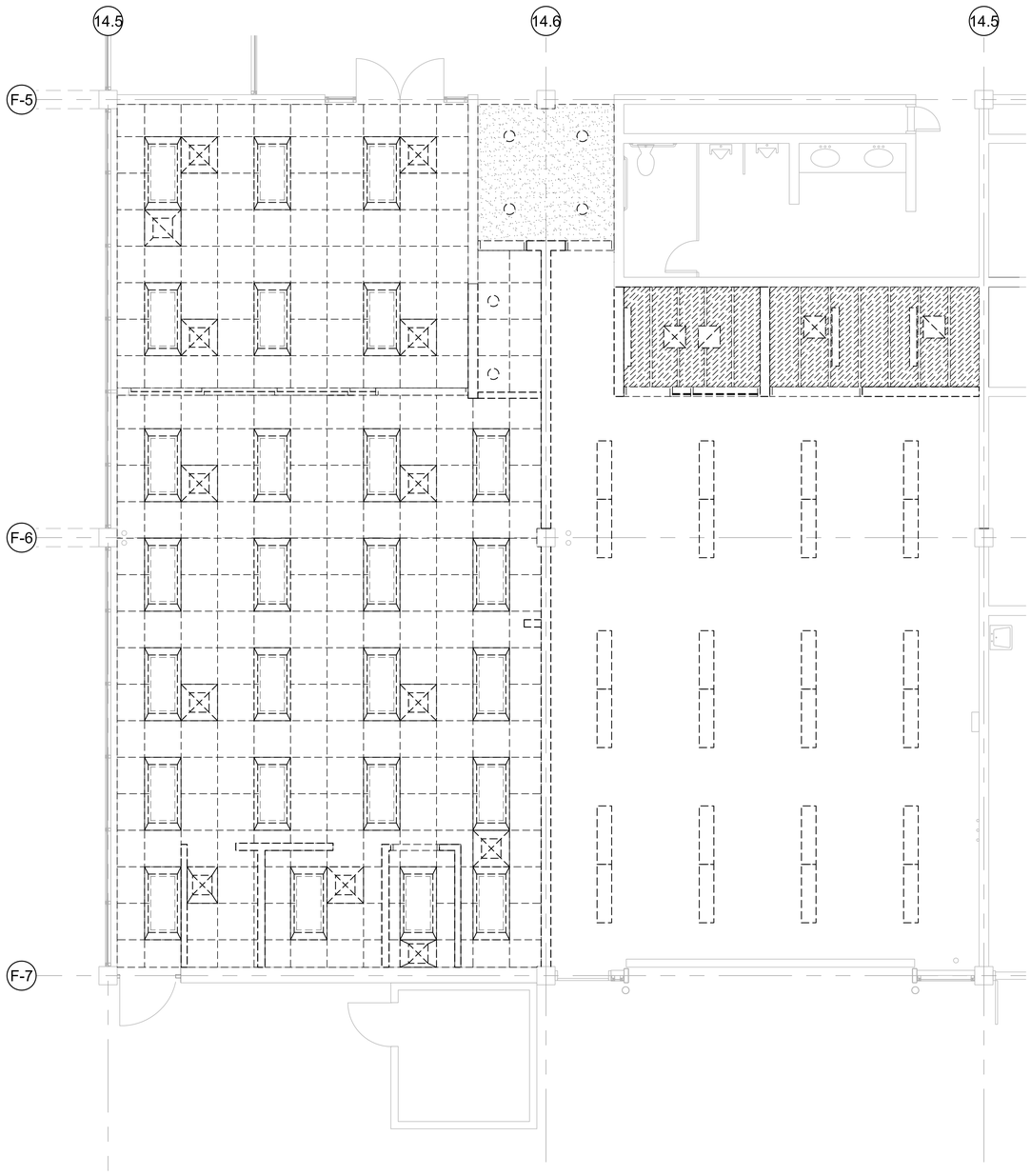

A4 DEMO REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

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RCP DEMOLITION LEGEND

- EXISTING SUSPENDED 2'X 2'X LAY-IN CEILING PANELS & GRID TO BE REMOVED & SALVAGE WHOLE ACOUSTIC PANEL TO OWNER, TYPICAL.
- EXISTING PLYWOOD & STEEL JOISTS TO BE DEMOLISHED, TYPICAL.
- EXISTING GYP. BOARD CEILING TO BE DEMOLISHED, TYPICAL.
- EXISTING 2 X 4 LIGHT FIXTURE & SURROUND TO BE REMOVED & SALVAGED TO OWNER, TYPICAL.
- EXISTING 1 x 4 HANGING PENDANT LIGHT FIXTURE TO BE REMOVED & SALVAGED TO OWNER, TYPICAL.
- EXISTING 6"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.
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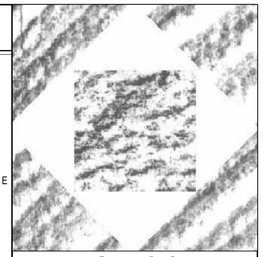

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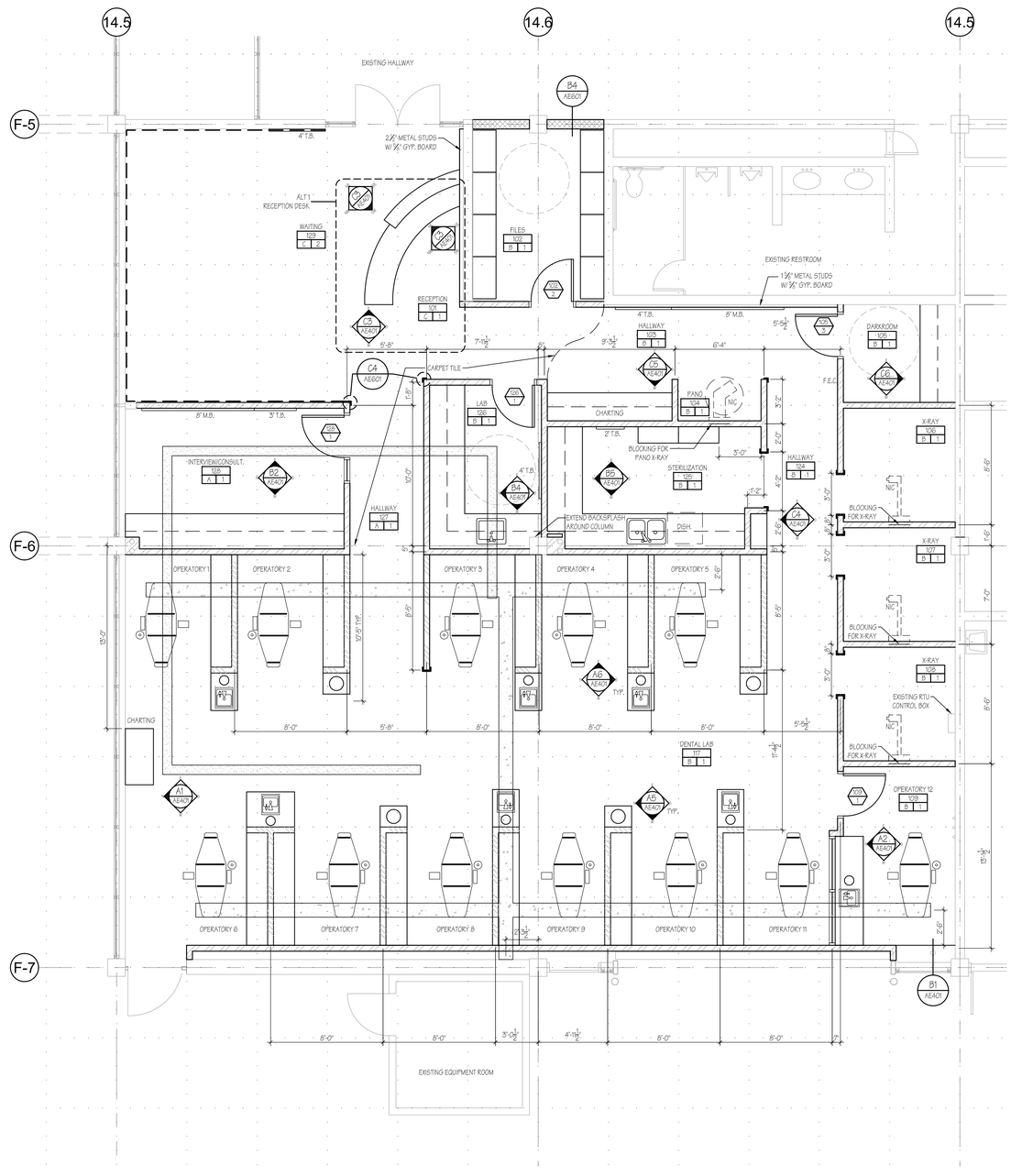
DEMO RELECTED CEILNG PLAN

AD111

SHEET OF



A4 FLOOR PLAN
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E. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, POOL AND FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATE.

FINISH SCHEDULE

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

FLOOR / BASE	WALL / WAINSCOT
A. CARPET TILE W/ 4" STRAIGHT RUBBER BASE.	1. PAINTED GYPSUM BOARD.
B. VINYL COMPOSITION TILE (VCT) W/ COVED RUBBER BASE.	2. PAINT W/ 6" OAK CHAIR RAIL, SEE DETAIL C5/AE601
C. CARPET TILE W/ 4" OAK BASE, SEE DETAIL C5/AE601	

WALL SCHEDULE

A. PONY WALL W/ 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. SEE A6/AE401 FOR HEIGHT.

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

C. 8" CMU INFILL WALL W/ SCORED VERTICAL JOINT TO MATCH EXISTING.

D. 12" W TRENCH FILLED W/ 4" THICK "LEAN" MIX CONCRETE. COORDINATE LOCATION W/ DEMO PLAN.

E. ABANDONED TRENCH FILLED W/ 4" THICK "LEAN" MIX CONCRETE. COORDINATE LOCATION W/ DEMO PLAN.

LEGEND

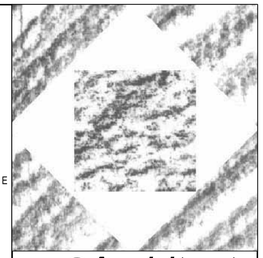
M.B. (MARKER BOARD) SEE B2/AE401.

T.B. (TACK BOARD) SEE B2/AE401.

F.E.C. (FIRE EXTINGUISHER CABINET).

(STAINLESS STEEL CORNER GUARD).

HARDWOOD CHAIR RAIL, SEE C5/AE401.



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STATE OF UTAH — BARRY W. SMITH 123799 — LICENSED ARCHITECT

DENTAL LAB IMPROVEMENTS UTAH VALLEY UNIVERSITY

987 SOUTH GENEVA ROAD
OREM, UTAH 84058

MARK	DATE	DESCRIPTION

DATE:	APRIL 8, 2010
PROJECT NO:	10027790
HFSA PROJECT NO:	1011.01
CAD DWG FILE NO:	
DRAWN BY:	
CHECKED BY:	
DESIGNED BY:	
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

FLOOR PLAN

AE101

SHEET OF

GENERAL NOTES

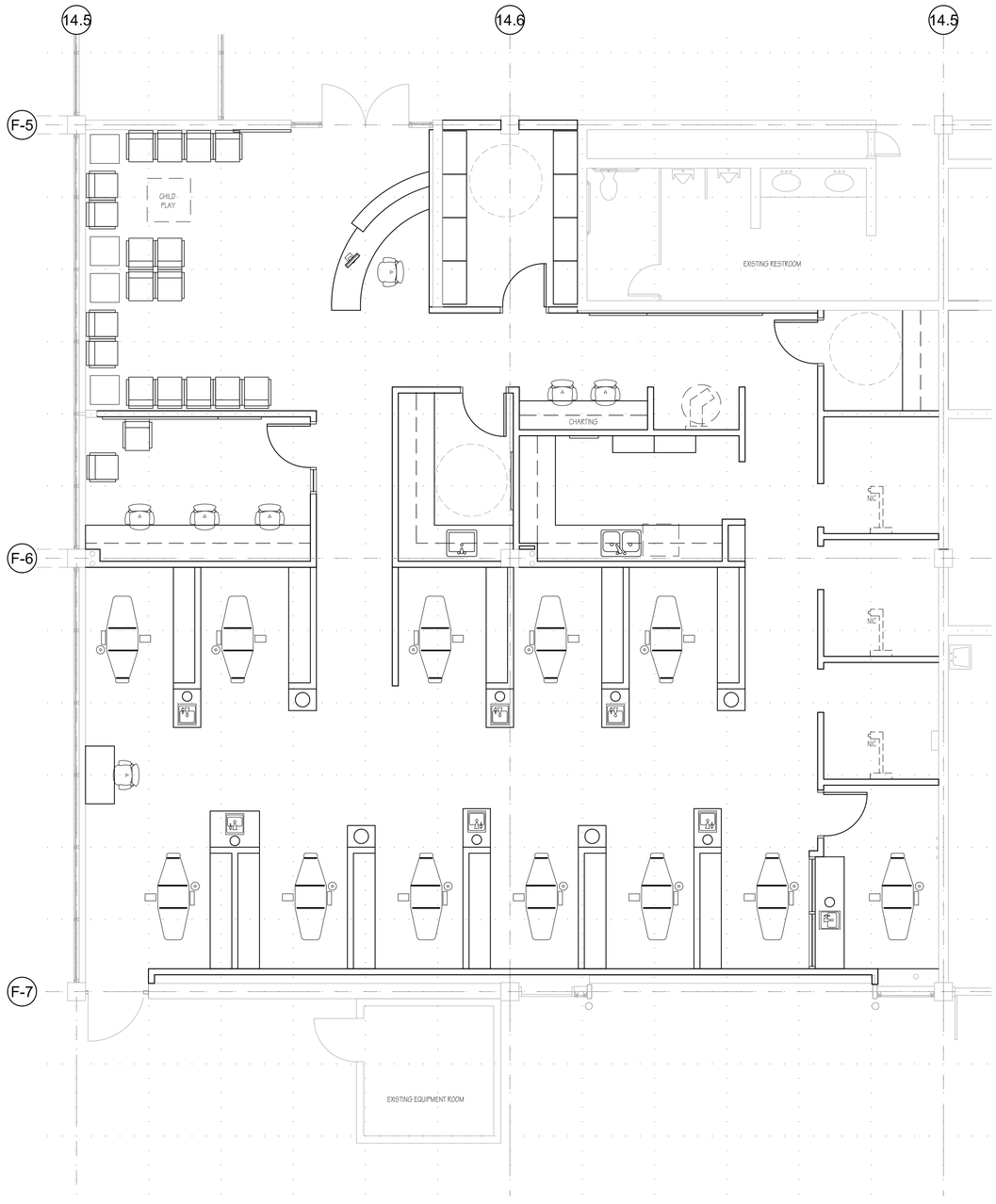
A. ALL DIMENSIONS TAKEN FROM GRID TO CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. THE CURTAIN WALL SYSTEM DIMENSION ID FROM GRID TO THE FACE OF THE SYSTEM.

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.

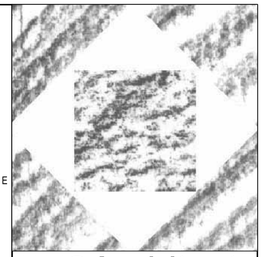
C. ALL WORK AND MATERIALS SHALL BE IN FULL CONFORMANCE WITH THE LATEST FEDERAL, STATE AND LOCAL CODES LAWS AND ORDINANCES. INCLUDING THEIR MOST RECENT REVISIONS, AMENDMENTS AND INTERPRETATIONS.

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 CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, POOL AND FOOD SERICE DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATE.



A4 FURNITURE PLAN
SCALE: 1/4" = 1'-0"



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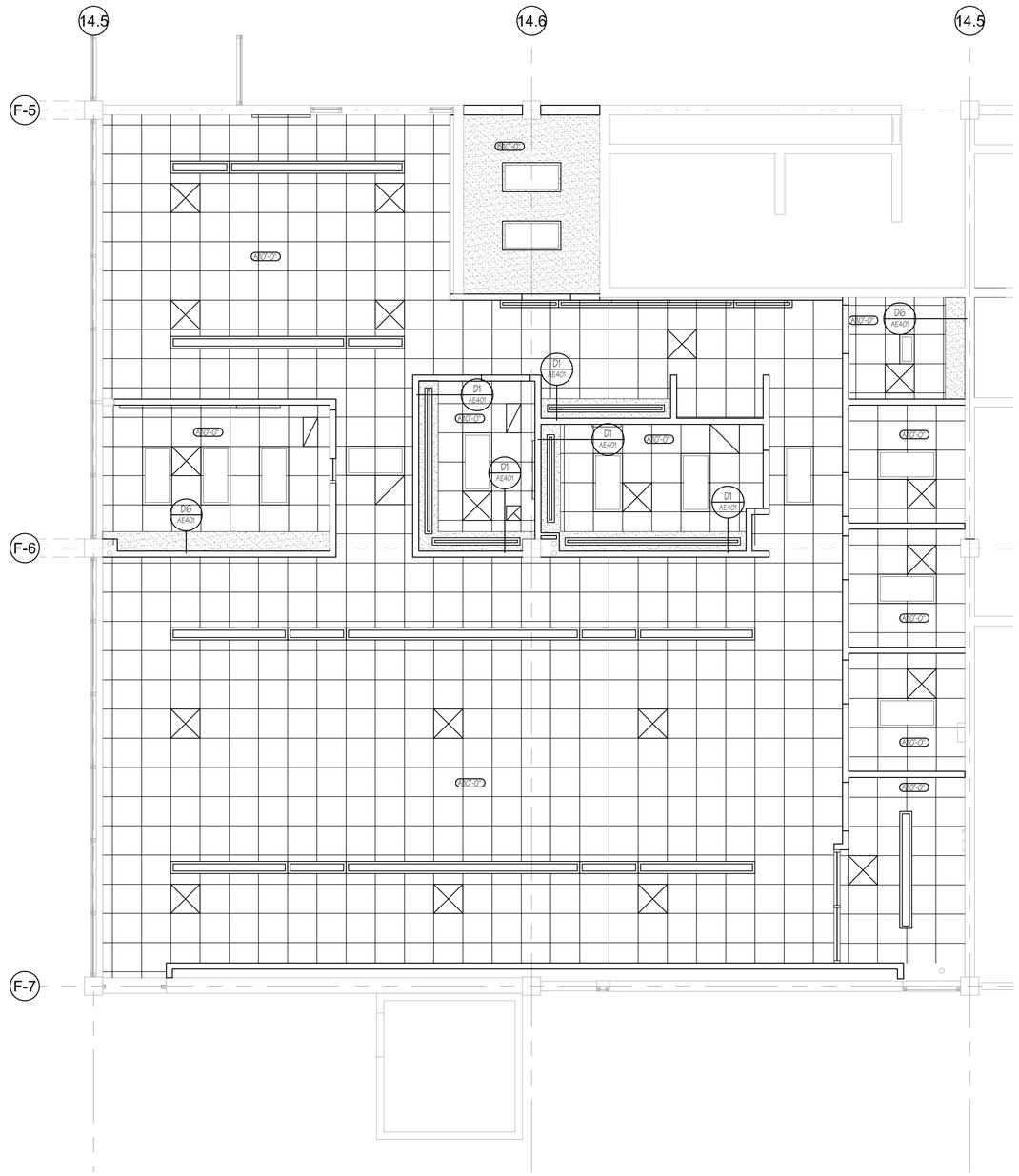
SHEET TITLE

FURNITURE PLAN

AE102

SHEET OF



A4 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

CEILING PLAN LEGEND

(A) NEW SUSPENDED 2X2 LAY-IN CEILING PANELS & GRID, TYPICAL

(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

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DWG TYPE:	ARCHITECTURAL
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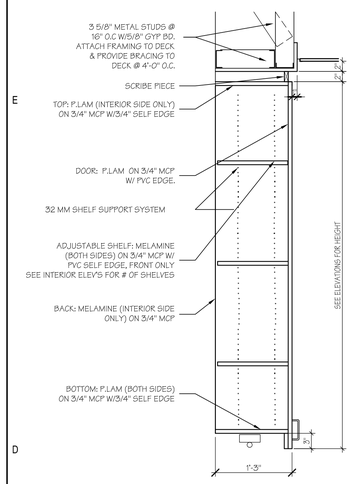
SHEET TITLE

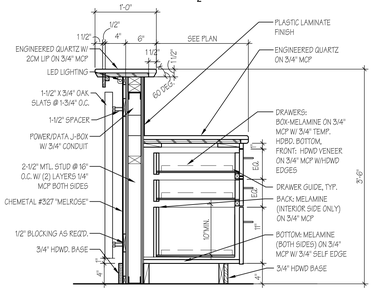
REFLECTED CEILING PLAN

AE111

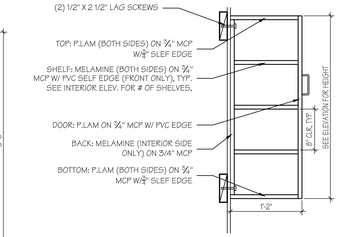
SHEET OF



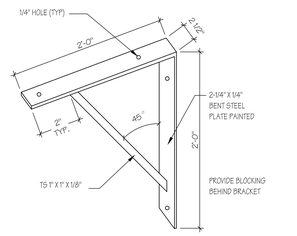
D1 OVERHEAD CABINET W/ LIGHT
SCALE: 1" = 1'-0"



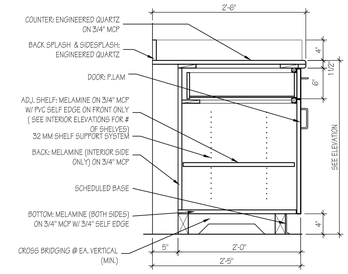
E2 RECEPTION DESK SECTION-ALT 1
SCALE: 1" = 1'-0"



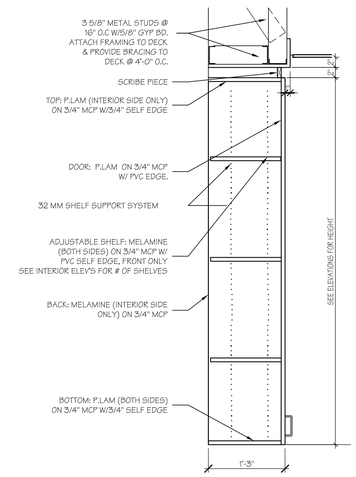
E3 COUNTER BRACKET DETAIL
SCALE: 1" = 1'-0"



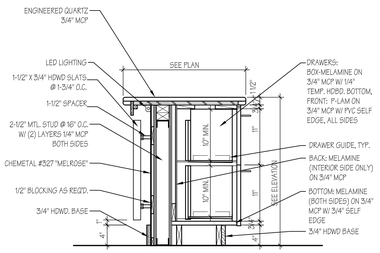
E4 COUNTER BRACKET DETAIL
N.T.S.



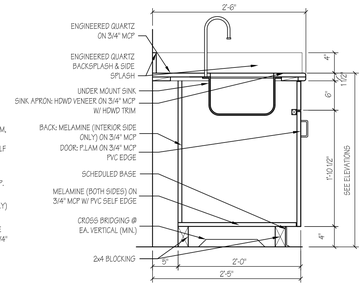
E5 CASEWORK DETAIL
SCALE: 1" = 1'-0"



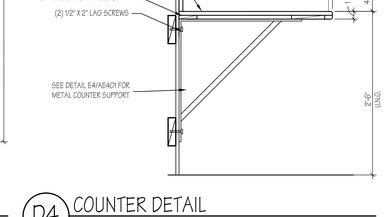
D6 OVERHEAD CABINET
SCALE: 1" = 1'-0"



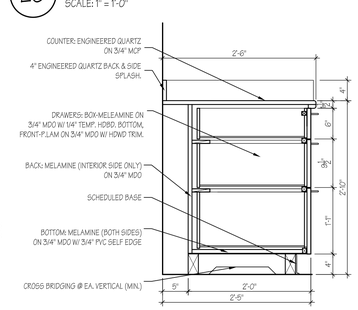
D2 RECEPTION DESK SECTION-ALT 1
SCALE: 1" = 1'-0"



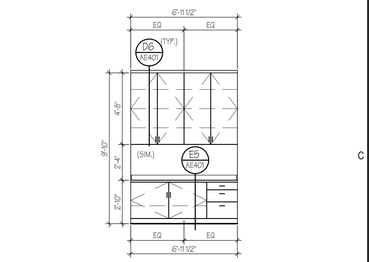
D3 SINK-CASEWORK DETAIL
SCALE: 1" = 1'-0"



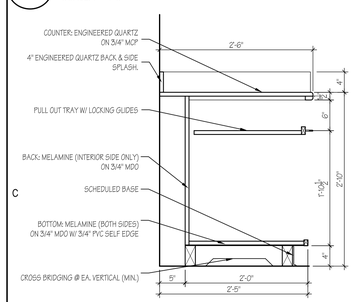
D4 COUNTER DETAIL
SCALE: 1" = 1'-0"



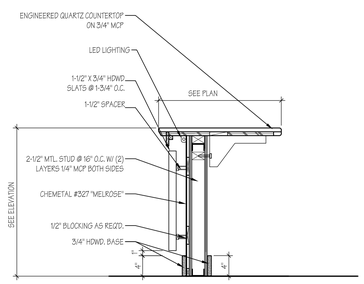
D5 CASEWORK DETAIL
SCALE: 1" = 1'-0"



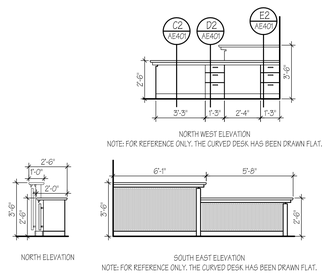
D6 OVERHEAD CABINET
SCALE: 1" = 1'-0"



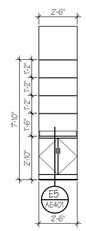
C1 CASEWORK DETAIL
SCALE: 1" = 1'-0"



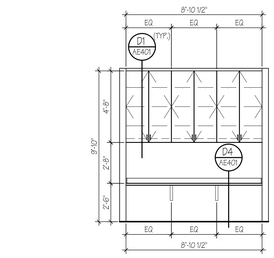
C2 RECEPTION DESK SECTION-ALT 1
SCALE: 1" = 1'-0"



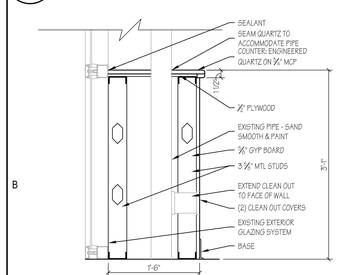
C3 RECEPTION DESK ELEVATIONS-ALT 1
SCALE: 1/4" = 1'-0"



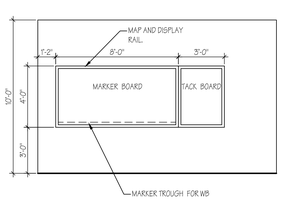
C4 CASEWORK NICHE ELEVATION
SCALE: 1/4" = 1'-0"



C5 CHARTING WEST ELEVATION
SCALE: 1/4" = 1'-0"

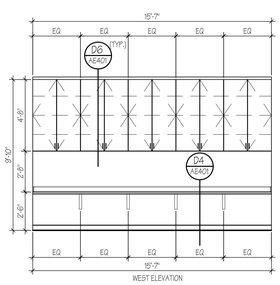


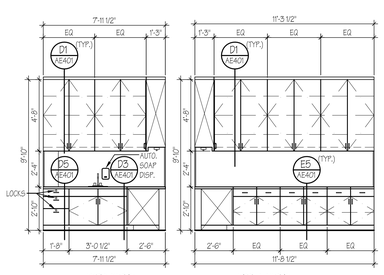
B1 CASEWORK W/ PIPING
SCALE: 1" = 1'-0"



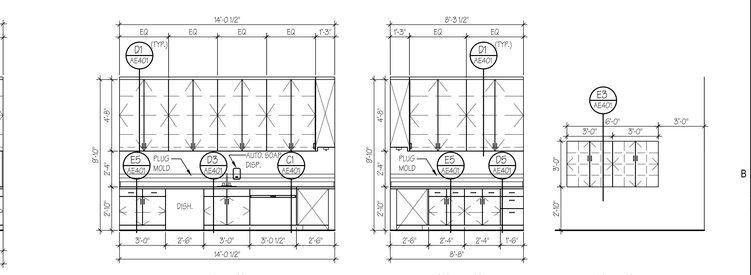
EAST ELEVATION

B2 INTERVIEW/CONSULT. ELEVATIONS
SCALE: 1/4" = 1'-0"

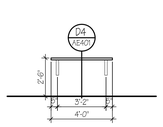




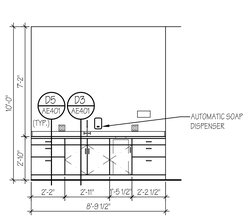
B4 LAB ELEVATIONS
SCALE: 1/4" = 1'-0"



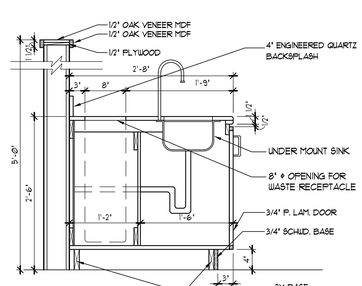
B5 STERILIZATION ELEVATIONS
SCALE: 1/4" = 1'-0"



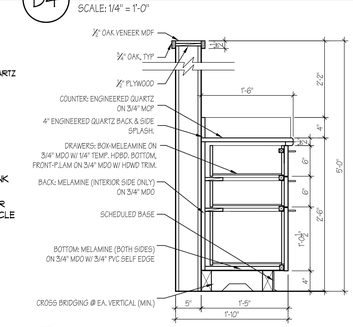
A1 CHARTING NORTH ELEVATION
SCALE: 1/4" = 1'-0"



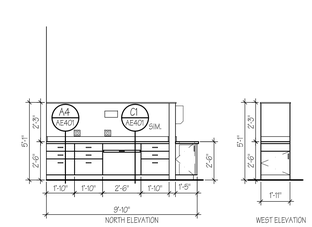
A2 DENTAL STATION 12 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



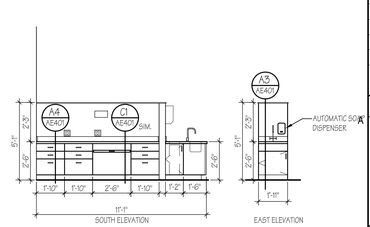
A3 SINK & WASTE CASEWORK DETAIL
SCALE: 1" = 1'-0"



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



A5 DENTAL STATION W/OUT SINK TYP.
SCALE: 1/4" = 1'-0"



A6 DENTAL STATION W/SINK TYP.
SCALE: 1/4" = 1'-0"

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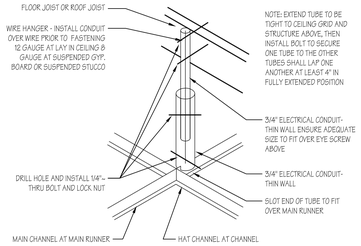
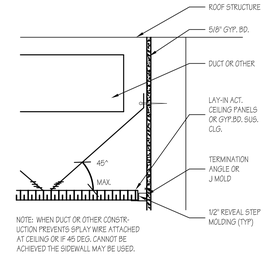
SHEET TITLE
CASE WORK ELEVATIONS & DETAILS

AE401

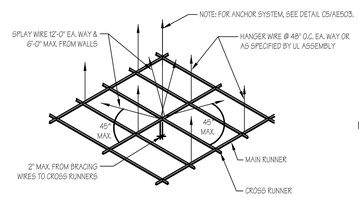
SHEET OF



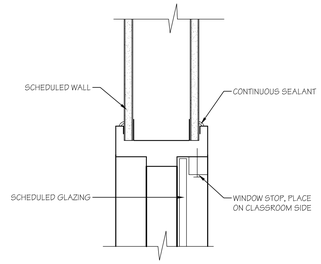
E4 CEILING ANCHOR SYSTEM
SCALE: 3" = 1'-0"



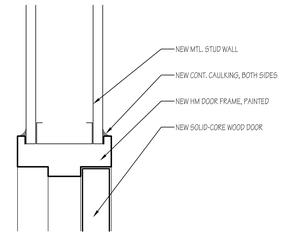
E5 CEILING BRACING
SCALE: 3" = 1'-0"



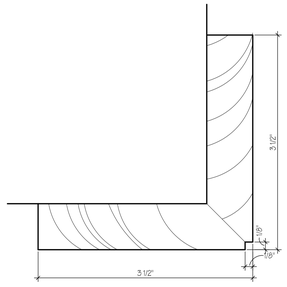
E6 BRACING DETAIL
N.T.S.



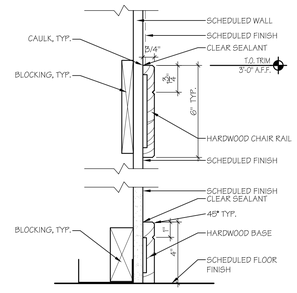
D5 WINDOW HEAD DETAIL (JAMB SIM.)
SCALE: 3" = 1'-0"



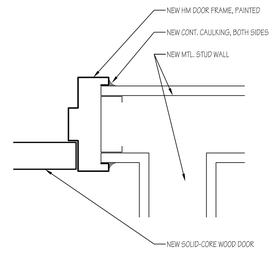
D6 HEAD DETAIL
SCALE: 3" = 1'-0"



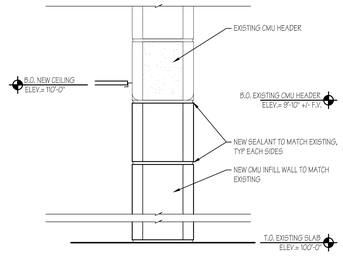
C4 HDWD CORNER GUARD
SCALE: 12" = 1'-0"



C5 HDWD CHAIR RAIL & BASE DETAIL
SCALE: 3" = 1'-0"



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

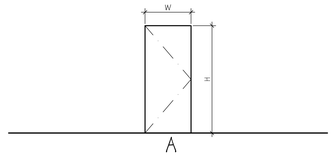


B4 CMU INFILL WALL DETAIL
SCALE: 1 1/2" = 1'-0"

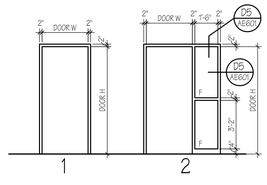
DOOR SCHEDULE

DOOR NUMB.	DOOR						FRAME						
	TYPE	MATERIAL	FIINISH	DOOR SIZE			TYPE	MATERIAL	FINISH	UL LABEL	DETAILS		
				W	H	T					H	J	T
102	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	D6/AE601	C6/AE601	--
105	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	D6/AE601	C6/AE601	--
109	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	D6/AE601	C6/AE601	--
126	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	1	HM	PAINT	--	D6/AE601	C6/AE601	--
128	A	SC	PRE. FIN.	3'-0"	7'-0"	1-3/4"	2	HM	PAINT	--	D6/AE601	C6/AE601	--

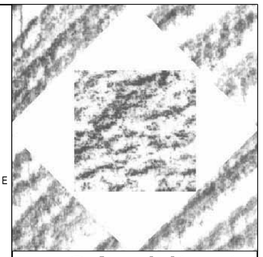
B5 DOOR SCHEDULE
SCALE: 1/8" = 1'-0"



A5 DOOR TYPE
SCALE: 1/4" = 1'-0"



A6 DOOR FRAME
SCALE: 1/4" = 1'-0"



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MARK	DATE	DESCRIPTION

DATE:	APRIL 8, 2010
PROJECT NO:	10027790
HFSA PROJECT NO:	1011.01
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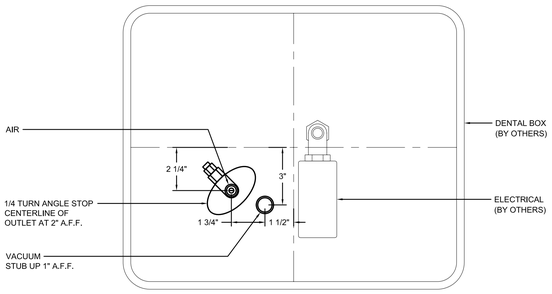
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

DOOR SCHEDULE & DETAILS

AE601

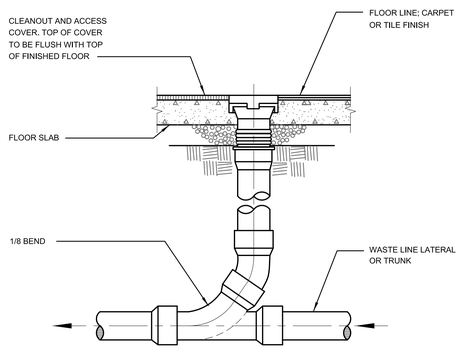
SHEET OF



DENTAL CHAIR UTILITY BOX DETAIL

NOT TO SCALE

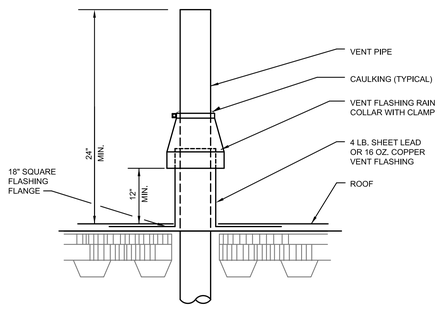
1 / MD-101



FLOOR CLEANOUT DETAIL

NOT TO SCALE

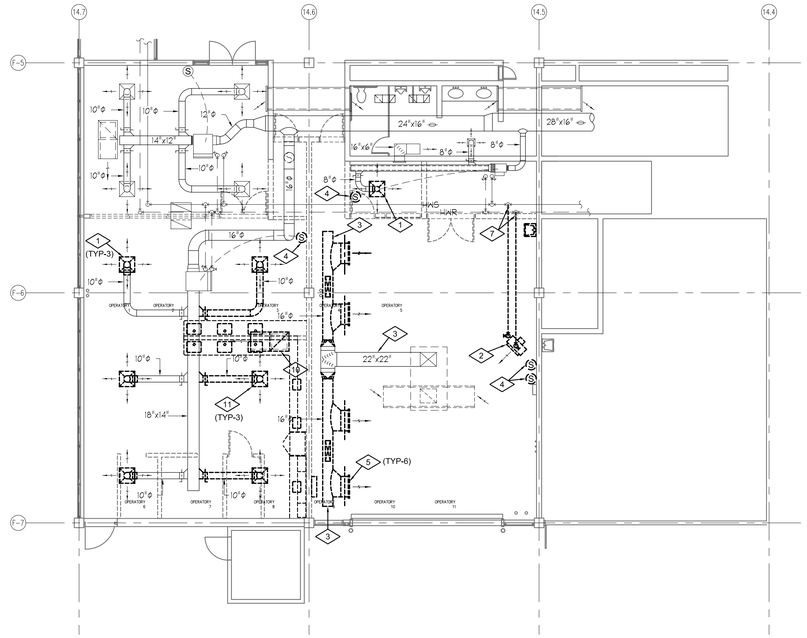
2 / 14-100 / MD-101



VENT THRU ROOF DETAIL

NOT TO SCALE

3 / MD-101



MECHANICAL DEMOLITION PLAN

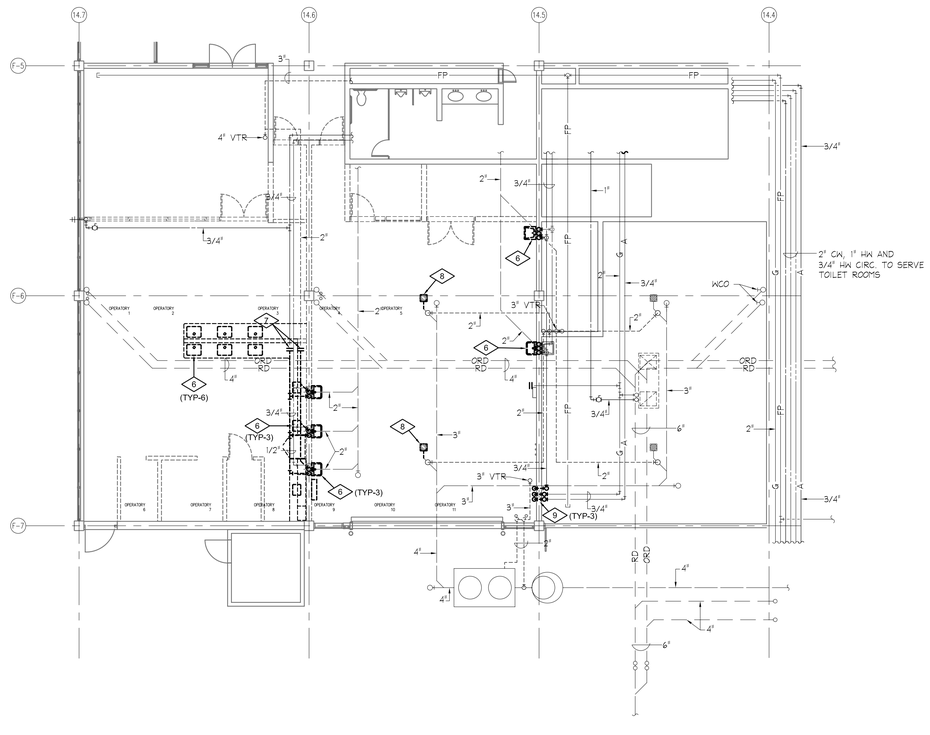
SCALE: 1/8"=1'-0"

GENERAL NOTE

THE NOTE "REMOVE" BELOW SHALL BE INTERPRETED AS THE REMOVAL AND PROPER DISPOSAL OF AN EXISTING MATERIAL OR PIECE OF EQUIPMENT. IT SHALL ALSO SIGNIFY COMPLETE DEMOLITION OF THE ITEM INCLUDING ALL ELECTRICAL, BRANCH PIPING, BRANCH DUCTWORK, UNIT CONTROLS, OR OTHER ASSOCIATED ITEMS. ELECTRICAL WIRING, CONTROLS, PIPING, AND DUCTWORK SHALL BE REMOVED TO THE MAIN AND CAPPED OR TERMINATED TO LEAVE A WORKING SYSTEM FOR ANY REMAINING SYSTEM COMPONENTS.

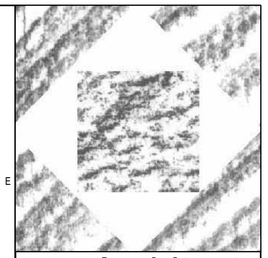
REFERENCE NOTES

1. REMOVE DIFFUSER AND FLEX DUCT.
2. REMOVE UNIT HEATER.
3. REMOVE DUCTWORK BACK TO DROP FROM ROOFTOP UNIT.
4. REMOVE WALL MOUNTED TEMPERATURE SENSOR.
5. REMOVE REGISTER.
6. REMOVE SINK.
7. DISCONNECT AND CAP PIPING.
8. REMOVE FLOOR DRAIN.
9. REMOVE PIPING AND VALVES TO ABOVE CEILING.
10. REMOVE RETURN GRILLE AND BOOT.
11. REMOVE SUPPLY DUCT AND DIFFUSER BACK TO MAIN.



PLUMBING DEMOLITION PLAN

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



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MARK	DATE	DESCRIPTION

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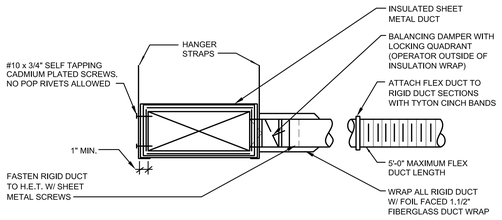
SHEET TITLE

MECHANICAL DEMOLITION PLAN

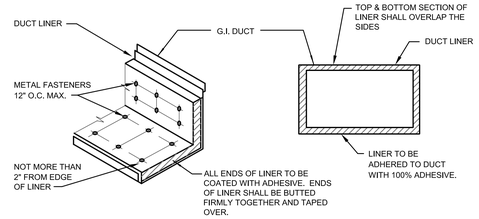
MD-101

SHEET - OF



FLEX DUCT WITH H.E.T. FITTING (3 / M-101)

NOT TO SCALE — 6-104M



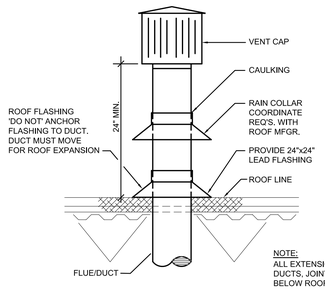
DUCT LINER DETAIL (1 / M-101)

NOT TO SCALE — 6-106

DIFFUSER SCHEDULE

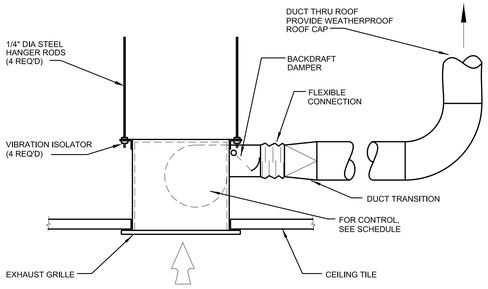
SYMBOL	TYPE	NECK SIZE	LOCATION	AIR PATTERN	MAKE & MODEL (2)
D-1 / CFM	LOUVERED	6"Ø	CEILING	4 - WAY	PRICE SMD (1)
D-2 / CFM	LOUVERED	8"Ø	CEILING	4 - WAY	PRICE SMD (1)
D-3 / CFM	LOUVERED	10"Ø	CEILING	4 - WAY	PRICE SMD (1)
D-4 / CFM	LOUVERED	12"Ø	CEILING	4 - WAY	PRICE SMD (1)

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



TYPICAL FLUE/DUCT PENETRATION AT ROOF DETAIL (4 / M-101)

NOT TO SCALE — 8-131



CEILING EXHAUST FAN DETAIL (2 / M-101)

NOT TO SCALE — 8-107c

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

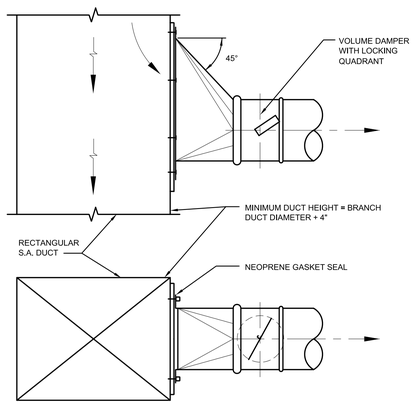
NOTES:
(1) PROVIDE FRAME FOR MOUNTING IN LAY-IN OR GYP BOARD CEILING AS NECESSRY.
(2) COLOR TO BE BRIGHT WHITE.

EXHAUST FAN SCHEDULE

SYMBOL	TYPE	C.F.M	S.P.	R.P.M.	MOTOR	DRIVE	MAKE & MODEL
EF-1	CEILING EXHAUST	100	0.25"	564	1/6 HP 115/1/60	DIRECT	TWIN CITY - T 150H (1)

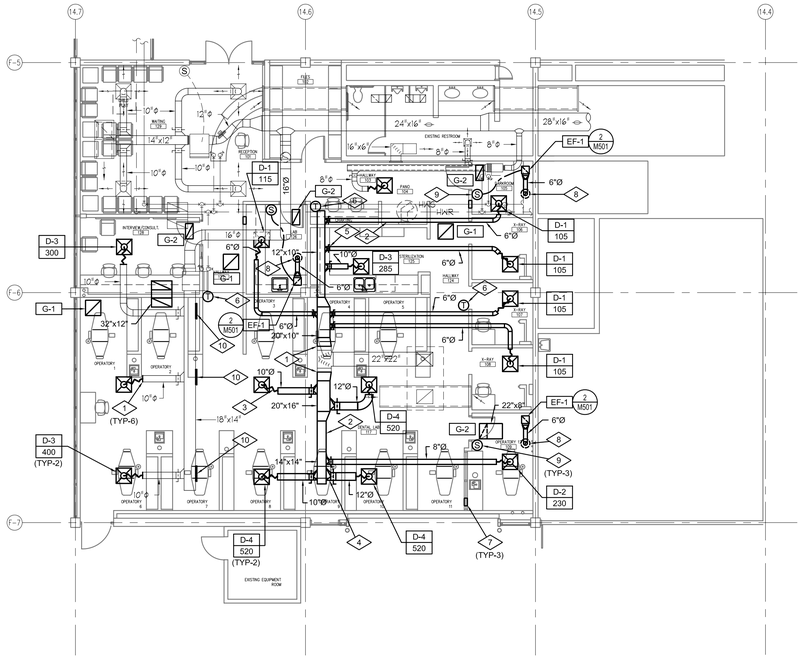
NOTES:
(1) PROVIDE BACK-DRAFT DAMPER AND ALUMINUM GRILLE.

15-103a



45° HIGH EFFICIENCY DUCT TAKE-OFF (5 / M-101)

NOT TO SCALE — 6-100d



MECHANICAL FLOOR PLAN

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

REFERENCE NOTES

1. CONNECT TO EXISTING DUCTWORK.
2. DUCTWORK TO RUN ABOVE CEILING (TYPICAL)
3. FLEXIBLE DUCT. MAXIMUM LENGTH 5'-0".
4. HIGH EFFICIENCY TAKE-OFF. LEE DETAILS 3/M-101 & 5/M-101 (TYPICAL)
5. MANUAL BALANCING DAMPER WITH LOCKING QUADRANT (TYPICAL)
6. NEW WALL MOUNTED TEMPERATURE SENSOR. MUST BE COMPATIBLE WITH EXISTING BUILDING AUTOMATION SYSTEM. SENSOR TO BE ADJUSTABLE WITHIN +/- 3°F OF SYSTEM SETPOINT. (ADJUSTABLE)
7. 12" x 12" OPENING IN WALL ABOVE CEILING.
8. 6"Ø EXHAUST DUCT THRU ROOF. TERMINATE IN WEATHER RESISTANT CAP. SEE DETAIL 4/M-101.
9. WALL MOUNTED ON/OFF SWITCH BY DIV 16 FOR CONTROL OF CEILING EXHAUST FAN.
10. CAP OPENING IN SIDE OF EXISTING SUPPLY DUCT. INSULATE CAP TO MATCH EXISTING.

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ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

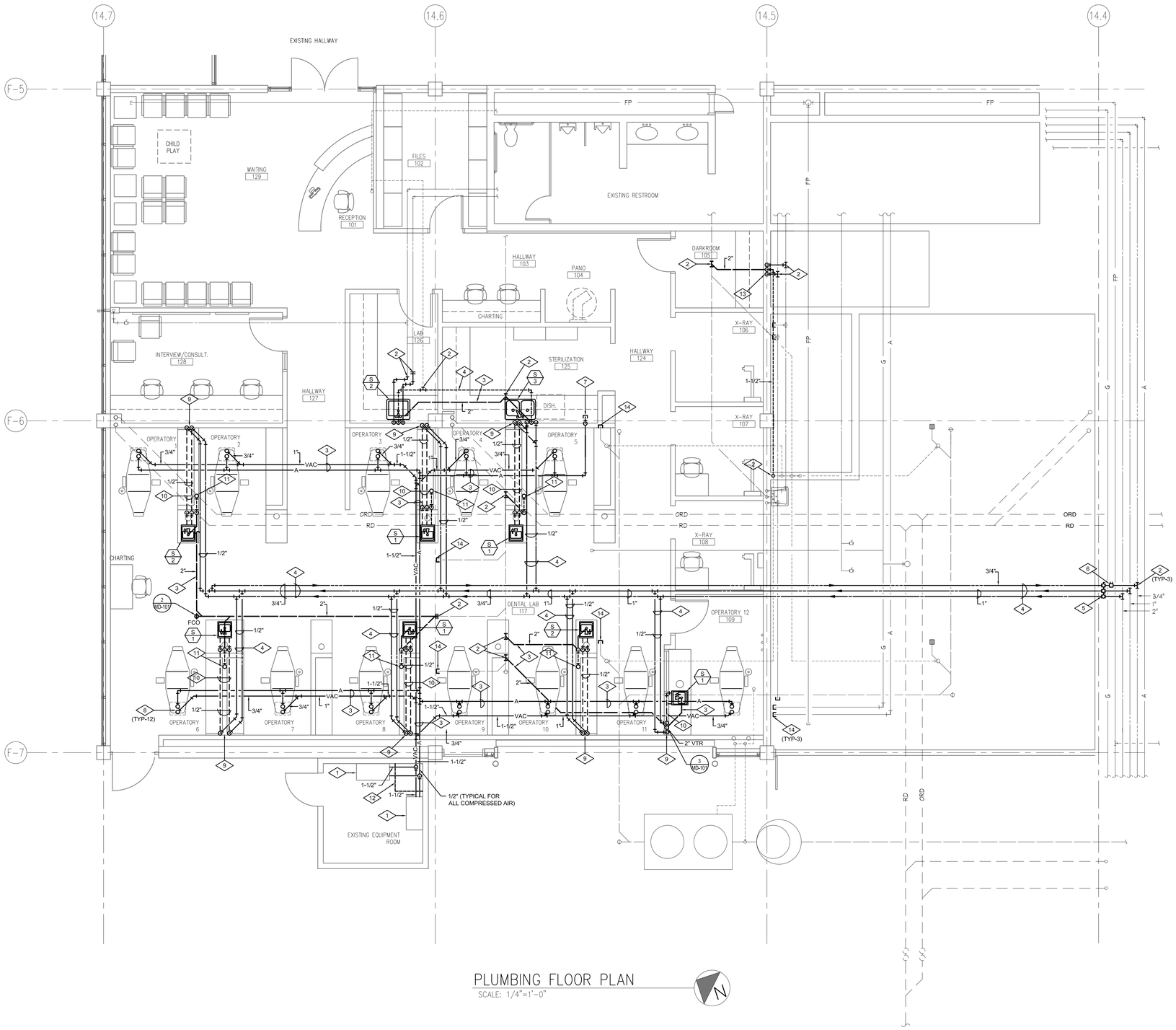
MECHANICAL FLOOR PLAN

M-101

SHEET - OF

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	WASTE	VENT	C.W.	H.W.	NOTES
S 1	SINK	1-1/2"	1-1/2"	1/2"	1/2"	SMALL - UNDER COUNTER MOUNTED SINGLE COMPARTMENT - STAINLESS STEEL
S 2	SINK	1-1/2"	1-1/2"	1/2"	1/2"	SMALL - UNDER COUNTER MOUNTED SINGLE COMPARTMENT - ST. ST. - W/ EYEWASH
S 3	SINK	1-1/2"	1-1/2"	1/2"	1/2"	UNDER COUNTER MOUNTED SINGLE COMPARTMENT - STAINLESS STEEL
S 3	SINK	1-1/2"	1-1/2"	1/2"	1/2"	UNDER COUNTER MOUNTED DOUBLE COMPARTMENT - STAINLESS STEEL



PLUMBING FLOOR PLAN

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

REFERENCE NOTES

1. EXISTING EQUIPMENT RACK: EXISTING VACUUM PUMP ON FLOOR, EXISTING AIR COMPRESSOR ON RACK ABOVE. CONNECT TO EXISTING EQUIPMENT.
2. CONNECT TO EXISTING PIPING. FIELD VERIFY EXACT LOCATION.
3. PIPING TO RUN BELOW GRADE. SAWCUT FLOOR AND EXCAVATE AS NECESSARY FOR INSTALLATION OF PIPING. BACKFILL, COMPACT, AND FINISH TO MATCH EXISTING.
4. PIPING TO RUN ABOVE CEILING.
5. LINE SIZE BALL VALVE SHUT-OFFS. (TYPICAL)
6. LOW FLOW CALIBRATED BALANCING VALVE. BALANCE TO 1 GPM.
7. 1/2" COMPRESSED AIR RISE TO 12" ABOVE COUNTER-TOP. CAP FOR FUTURE.
8. DENTAL CHAIR UTILITY BOX (BY GENERAL CONTRACTOR). COMPRESSED AIR AND VACUUM PIPING TO STUB UP INTO BOX. TERMINATE COMPRESSED AIR WITH 1/4 TURN ANGLE COMPRESSION VALVE. SEE DETAIL 1/M-501. COORDINATE WITH CHAIR MFG. REQ'S.
9. PIPING TO DROP IN WALL TO BELOW COUNTERTOP.
10. PIPING TO RUN IN SHORT WALL.
11. PROVIDE AIR ADMITTANCE VALVE AT VENT PIPING TERMINATION AT AN ELEVATION 7" ABOVE COUNTER-TOP. PROVIDE 12"x12" S.S. ACCESS DOOR IN WALL FOR ACCESS TO VALVE.
12. SAWCUT FOR PIPING SUMP. FORM AND POUR CONCRETE WALLS AND FLOOR FOR SUMP 30"x30" AND DEEP ENOUGH TO BE 6" BELOW PIPING. PROVIDE VALVES IN PIPING AT LOW POINT OF VACUUM AND AIR LINES FOR DRAINING.
13. PIPING STUB FOR DARKROOM EQUIPMENT. CONNECT TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. (EQUIPMENT BY OTHERS)
14. CAP PIPING.

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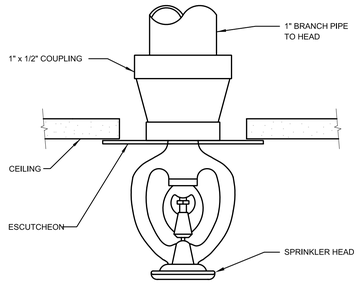
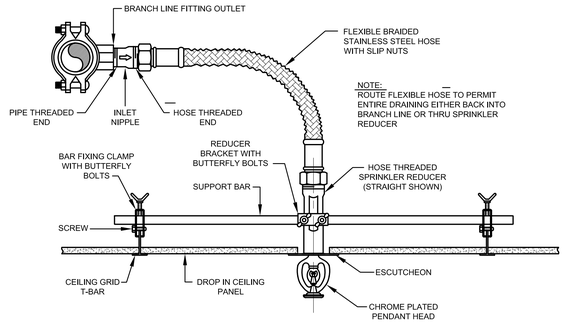
PLUMBING FLOOR PLAN

P-101

SHEET - OF



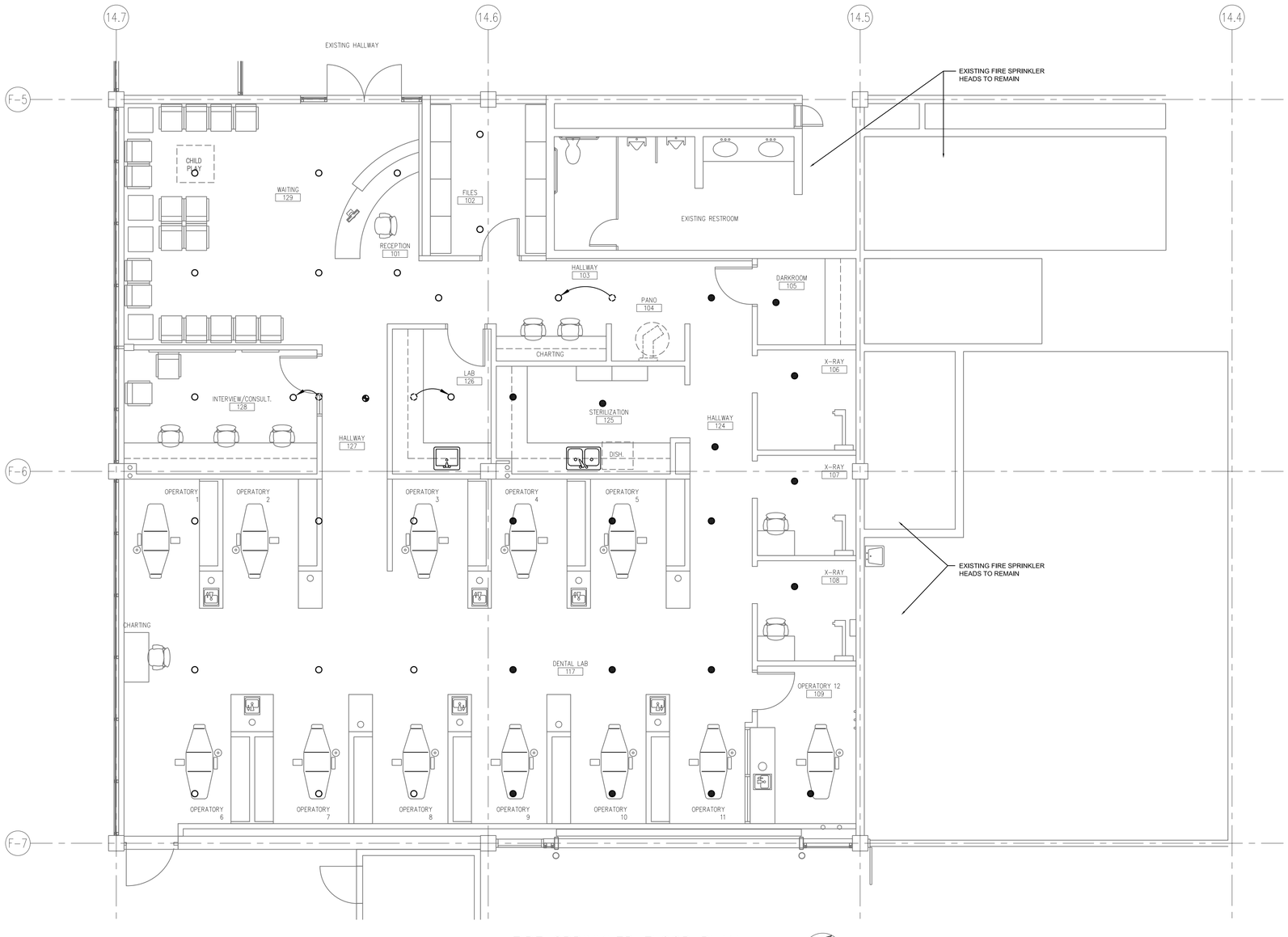
SPRINKLER HEAD DETAIL (2 / FP101)
NOT TO SCALE 9-101



SPRINKLER HOSE DETAIL (1 / FP101)
NOT TO SCALE

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. SPRINKLER HOSE MAY BE USED WHEN RELOCATING HEADS. SEE DETAIL 1/FP-101.



FIRE SPRINKLER FLOOR PLAN
SCALE: 1/4"=1'-0"

SYMBOL LIST

- EXISTING CHROME PLATED PENDANT SPRINKLER HEAD. COORDINATE WITH NEW CEILING.
- EXISTING UPRIGHT SPRINKLER HEAD TO BE REMOVED. RUN PIPING DOWN TO NEW CEILING AND INSTALL NEW CHROME PLATED PENDANT HEAD.
- EXISTING CHROME PLATED PENDANT SPRINKLER HEAD TO BE RELOCATED AS SHOWN.
- NEW CHROME PLATED PENDANT TYPE FIRE SPRINKLER HEAD.

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FIRE SPRINKLER FLOOR PLAN

FP-101

SHEET - OF

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: ELEC ROOM 124 — 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	1125			500			2	20	3		EXISTING LOAD
-	-	-		3		1125			500		4	-	-		-
-	-	-		5			1125			500	6	-	-		-
EXISTING LOAD	20	3		7	735			525			8	20	3		EXISTING LOAD
-	-	-		9		840			525		10	-	-		-
-	-	-		11			735			630	12	-	-		-
EXISTING LOAD	20	1		13	3085			1800			14	20	3		EXISTING LOAD
EXISTING LOAD	20	1		15		3350			1800		16	-	-		-
EXISTING LOAD	20	1		17			2555			1800	18	-	-		-
LIGHTING	20	1	12	19	2260			1750			20	20	1		EXISTING LOAD
LIGHTING	20	1	12	21		2080			3750		22	20	1		EXISTING LOAD
EXISTING LOAD	20	1		23			3280			3050	24	20	1		EXISTING LOAD
EXISTING LOAD	20	1		25	3290			2750			26	20	1		EXISTING LOAD
EXISTING LOAD	20	1		27		1740			588		28	20	1		EXISTING LOAD
SPARE	20	1		29						500	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
SPARE	20	1		37							38	20	1		SPARE
SPARE	20	1		39							40	20	1		SPARE
SPARE	20	1		41							42	20	1		SPARE
					10495	9135	7695	7325	7163	6480					
					17820	16298	14175	TOTAL							
					64	59	51	AMPS/PHASE							

CONNECTED LOAD TOTAL: 48293 VA

EQUIP RATING: ___ AMPS RMS SYM.

PROJECT NAME: UVU DENTAL

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: ELEC ROOM 124 — 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	1080			1000			2	20	1	10	RECEPTACLES
EXISTING LOAD	20	1		3		720			1000		4	20	1	10	RECEPTACLES
EXISTING LOAD	20	1		5			720			1200	6	20	1	10	RECEPTACLES
EXISTING LOAD	20	1		7	900			600			8	20	1	10	RECEPTACLES
EXISTING LOAD	20	1		9		720			500		10	20	1	10	RECEPTACLES
EXISTING LOAD	20	1		11			720			500	12	20	1	10	RECEPTACLES
EXISTING LOAD	20	1		13	1100			800			14	20	1	10	RECEPTACLES
EXISTING LOAD	20	1		15		900			1100		16	20	1	10	X-RAY
EXISTING LOAD	20	1		17			720			500	18	20	1	10	PLUGMOLD
EXISTING LOAD	20	1		19	720			500			20	20	1	10	PLUGMOLD
EXISTING LOAD	20	1		21		720			500		22	20	1	10	PLUGMOLD
EXISTING LOAD	20	1		23			720			500	24	20	1	10	PLUGMOLD
EXISTING LOAD	20	1		25	1000			900			26	20	1		EXISTING LOAD
EXISTING LOAD	20	1		27		1000			500		28	20	1	10	PLUGMOLD
EXISTING LOAD	20	1		29			1850			720	30	20	1		EXISTING LOAD
EXISTING LOAD	20	1		31	500			600			32	20	1		EXISTING LOAD
RECEPTACLES	20	1	10	33		500			1175		34	20	1	10	DISHWASHER
X-RAY	20	1	10	35			1100			2400	36	30	2	8	AUTOCLAVE
X-RAY	20	1	10	37	1100			2400			38	-	-	-	-
X-RAY	20	1	10	39		1100			2400		40	30	2	8	AUTOCLAVE
LIGHTING	20	1	10	41			335			2400	42	-	-	-	-
					6400	5660	6165	6800	7175	8220					
					13200	12835	14385	TOTAL							
					110	107	120	AMPS/PHASE							

CONNECTED LOAD TOTAL: 40420 VA

EQUIP RATING: ___ AMPS RMS SYM.

PROJECT NAME: UVU DENTAL

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: ELEC ROOM 124 — 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	870						2	30	3		TVSS
EXISTING LOAD	20	1		3		870					4	-	-		-
EXISTING LOAD	20	1		5			870				6	-	-		-
EXISTING LOAD	20	1		7	870			1660			8	20	1		EXISTING LOAD
EXISTING LOAD	20	1		9		870			1660		10	20	1		EXISTING LOAD
EXISTING LOAD	20	1		11			1000			700	12	20	1		EXISTING LOAD
EXISTING LOAD	20	1		13	1000			700			14	20	1		EXISTING LOAD
EXISTING LOAD	20	1		15		1000			1000		16	20	1		EXISTING LOAD
EXISTING LOAD	20	1		17			1180			1000	18	20	1		EXISTING LOAD
EXISTING LOAD	20	1		19	1660			1400			20	20	1		EXISTING LOAD
EXISTING LOAD	20	1		21		1000			300		22	20	1		EXISTING LOAD
VIEW BOX	20	1	10	23			300			800	24	20	1		EXISTING LOAD
EXISTING LOAD	20	1		25	1000			540			26	20	1		EXISTING LOAD
EF-1 *	20	1	10	27		1190			1600		28	20	1	10	RECEPTACLES
EF-4 *	20	1	10	29			530			1200	30	20	1	10	RECEPTACLES
VIEW BOX	20	1	10	31	420			1200			32	20	1	10	RECEPTACLES
RECEPTACLES	20	1	10	33		1200			1200		34	20	1	10	RECEPTACLES
RECEPTACLES	20	1	10	35			1200			1200	36	20	1	10	RECEPTACLES
RECEPTACLES	20	1	10	37	1200			1200			38	20	1	10	RECEPTACLES
RECEPTACLES	20	1	10	39		1200			1200		40	20	1	10	RECEPTACLES
RECEPTACLES	20	1	10	41			1200			1200	42	20	1	10	RECEPTACLES
					7020	7330	6280	6700	6960	6100					
					13720	14290	12380	TOTAL							
					114	119	103	AMPS/PHASE							

* PROVIDE NEW BREAKER

CONNECTED LOAD TOTAL: 40390 VA

EQUIP RATING: ___ AMPS RMS SYM.

PROJECT NAME: UVU DENTAL

FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG NUMBER	VOLTS	LAMPS
A16	16 FOOT 2 LAMP T5HO CROSS SECTION LINEAR PENDANT FIXTURE WITH ELECTRONIC BALLAST	PEERLESS EGSAM2 2 54T5HO 16FT R8 277 GEB10 1SE EC SCT LP835 C200 ELH F1A/18 ACG	277	INCLUDED
A40	40 FOOT 2 LAMP T5HO CROSS SECTION LINEAR PENDANT FIXTURE WITH ELECTRONIC BALLAST	PEERLESS EGSAM2 2 54T5HO 40FT R8 277 GEB10 2SE EC SCT LP835 C200 ELH F1A/18 ACG	277	INCLUDED
B	3 WATT LED PENDANT FIXTURE WITH ELLIPSE GLASS SHADE AND DECORATIVE CEILING CANOPY WITH LED DRIVER	CONTECH LIGHTING CRS7246LEDQR-W-S/MLA106-W/CRS-DQRCD	120	INCLUDED
C	2 X 4 2 LAMP T8 FLUORESCENT LAY-IN FIXTURE WITH ACRYLIC LENS AND ELECTRONIC BALLAST	LITHONIA 2SP8 G 232 FW A12125 MVOLT GEB10IS	277	(2) FO32/835XPS/ECO
D20	20 FOOT 2 LAMP T5HO CROSS SECTION WALL MOUNTED LINEAR FIXTURE WITH ELECTRONIC BALLAST	PEERLESS EGAW2 2 54T5HO 20FT R8 277 GEB10 2SE EC SCT LP835 C200 ELH	277	INCLUDED
E	4 FOOT 1 LAMP T8 FLUORESCENT UNDER CABINET LIGHT WITH ELECTRONIC BALLAST	LITHONIA N 2 S 32 MVOLT GEB10IS	277	(1) FO32/835XPS/ECO
F	2 X 4 3 LAMP T8 FLUORESCENT LAY-IN FIXTURE WITH ACRYLIC LENS AND ELECTRONIC BALLAST	LITHONIA 2SP8 G 332 FW A12125 MVOLT 1/3 GEB10IS	277	(3) FO32/835XPS/ECO
G	TRIPLE COMPARTMENT DARKRROM SAFELIGHT	ALKCO R-2058-3 PROVIDE WITH REQUIRED FILTERS FOR X-RAY FILMS	120	(1) 200W A23 (2) 15W A19
H8	8 FOOT 2 LAMP T5HO CROSS SECTION LINEAR PENDANT FIXTURE WITH ELECTRONIC BALLAST	PEERLESS EGSAM2 2 54T5HO 8FT R8 277 GEB10 SCT LP835 C200 F1A/19 ACG	277	INCLUDED
J	1 X 4 2 LAMP T8 FLUORESCENT SURFACE WRAP FIXTURE WITH ELECTRONIC BALLAST	LITHONIA LB 232 MVOLT GEB10IS	277	(2) FO32/835XPS/ECO
X1	LED EXIT SIGN WITH DIE-CAST ALUMINUM HOUSING	LITHONIA L E S 1 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.

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	4.4 FLA	120	1	4.40	3/4"	1	2	12	12	CB	20	4A			

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 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN PHASE CONDUCTOR.

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

SYMBOL	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	
	CABLE TRAY	AS NOTED	
	CEILING LIGHT FIXTURE	CEILING	1.
	WALL LIGHT FIXTURE	AS NOTED	1.
	RECESSED DOWNLIGHT 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.
$a	SINGLE POLE SWITCH	+4'–0"	4. 2.
$3	THREE–WAY SWITCH	+4'–0"	2.
$4	FOUR–WAY SWITCH	+4'–0"	2.
$K	KEY OPERATED SWITCH	+4'–0"	2.
$P	SWITCH WITH PILOT LIGHT	+4'–0"	2.
$D	VARIABLE INTENSITY SWITCH	+4'–0"	2.
$TM	TIMER SWITCH	+4'–0"	2.
	MOMENTARY CONTACT SWITCH, CENTER POSITION OFF	+4'–0"	2.
	OCCUPANCY SENSOR	CEILING	
	OCCUPANCY SENSOR	+4'–0"	2.
PP	POWER PACK	CEILING	SEE DIAGRAM, SPEC.
A	AUTOMATIC RELAY PACK	CEILING	SEE DIAGRAM. SPEC.
T	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.
A	DUPLEX RECEPTACLE		9.
W	ELECTRIC WATER COOLER RECEPTACLE		SEE DIAGRAM
WP	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.
IG	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.
	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.
	TELEPHONE OUTLET	FLOOR	
	CALL SWITCH	+4'–0"	2.
C	CLOCK OUTLET	+7'–6"	8.
C	CLOCK/SPEAKER COMBINATION	+7'–6"	

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
J	JUNCTION BOX ('F' IN FLOOR)	AS NOTED	
	MOTOR OUTLET	TO SUIT EQUIP.	
P	PHOTO–ELECTRIC CONTROL	AS NOTED	TORK 2000A
TC	TIME CLOCK	+5'–0"	2.
	PUSHBUTTON	+4'–0"	2.
	NON–FUSED DISCONNECT SWITCH	+5'–0"	5.
F	FUSED DISCONNECT SWITCH	+5'–0"	5.
$T	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.
E	FIRE ALARM SIGNAL SPEAKER/STROBE	+6'–8"	6.
S	SMOKE DETECTOR	CEILING	
D	DUCT SMOKE DETECTOR		MTD. IN DUCT
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		
S	FIRE ALARM STROBE	+6'–8"	6.
D	DURESS PUSHBUTTON	+4'–0"	
D1	SECURITY SYSTEM DOOR SWITCH	DOOR JAMB	
D2	SECURITY SYSTEM OVERHEAD DOOR SWITCH	CEILING	MOUNT AS PER. MAN
ML	MAGNETIC SHEAR LOCK		
A	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		
#	SOUND SYSTEM SPEAKER	+8'–0" OR AS NOTED	
IC	INTERCOM SPEAKER	AS NOTED	
V	VOLUME CONTROL	+4'–0"	2.
M	MICROPHONE OUTLET	+16"	11.
M	MICROPHONE FLOOR OUTLET	FLOOR	
M	MICROPHONE CEILING OUTLET	CEILING	
	SOUND EQUIPMENT CABINET		CIRCUIT TO 120V
842	ARCHITECTURAL ROOM NUMBER		
A	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
EQ 34	EQUIPMENT NUMBER		

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.

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.

INDEX OF ELECTRICAL DRAWINGS

EG001 SYMBOLS, SCHEDULES AND NOTES

EL201 LIGHTING AND DEMOLITION LIGHTING PLANS

EP301 POWER AND DEMOLITION POWER PLANS

EX501 ELECTRICAL DIAGRAMS

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SHEET TITLE

SYMBOLS, SCHEDULES AND NOTES

EG001

SHEET ___ OF ___

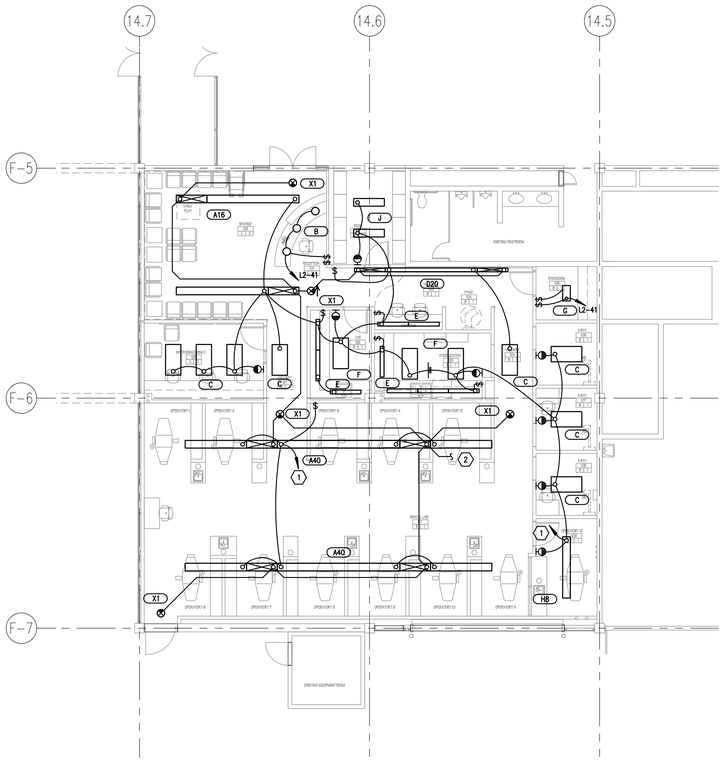
By: jverhodt; Apr 08, 2010 – 9:55am
F:\2010\064A\DRAW\064A–EG001.dwg

SHEET KEYNOTES

1. CONNECT TO EXISTING LIGHTING CIRCUIT THIS AREA HA-19 AND 21.
2. CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT THIS AREA HE-2.

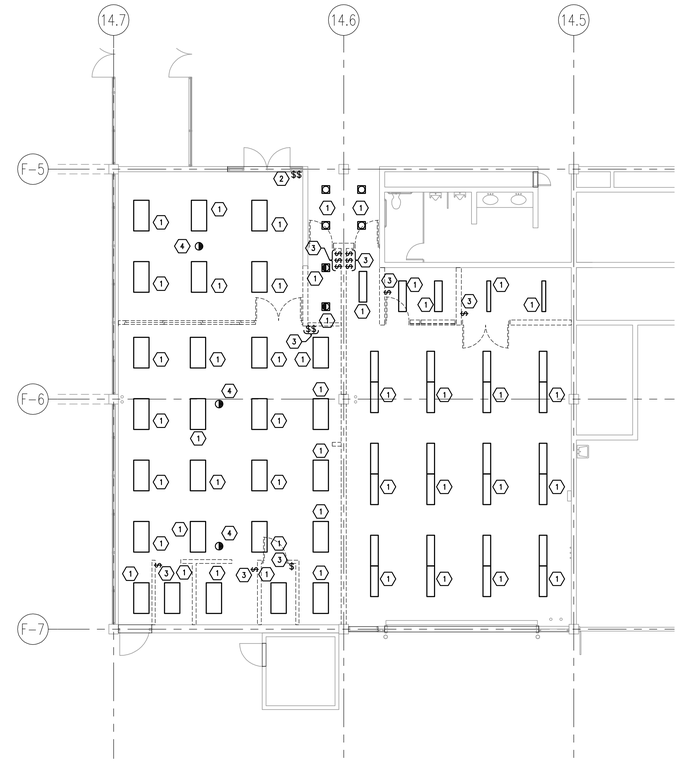
SHEET KEYNOTES LIGHTING DEMO

1. EXISTING LIGHT FIXTURE TO BE REMOVED AND TURNED OVER TO THE OWNER. REMOVE CONDUIT AND WIRE TO JUNCTION BOX IN CEILING.
2. EXISTING SWITCH TO BE REMOVED. REMOVE DEVICE, WIRING, AND PROVIDE BLANK COVERPLATE.
3. EXISTING SWITCH LOCATION TO BE REMOVED. REMOVE ASSOCIATED CONDUIT, BOX, WIRING, SUPPORTS, ETC.
4. EXISTING CEILING MOUNTED OCCUPANCY SENSOR TO BE REMOVED. REMOVE ASSOCIATED CONDUIT, BOX, WIRING, SUPPORTS, ETC.



PLAN NORTH

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



PLAN NORTH

DEMOLITION LIGHTING PLAN
1/8" = 1'-0"
0 4' 8' 16'

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SHEET TITLE

LIGHTING AND DEMOLITION LIGHTING PLANS

EL201

SHEET OF

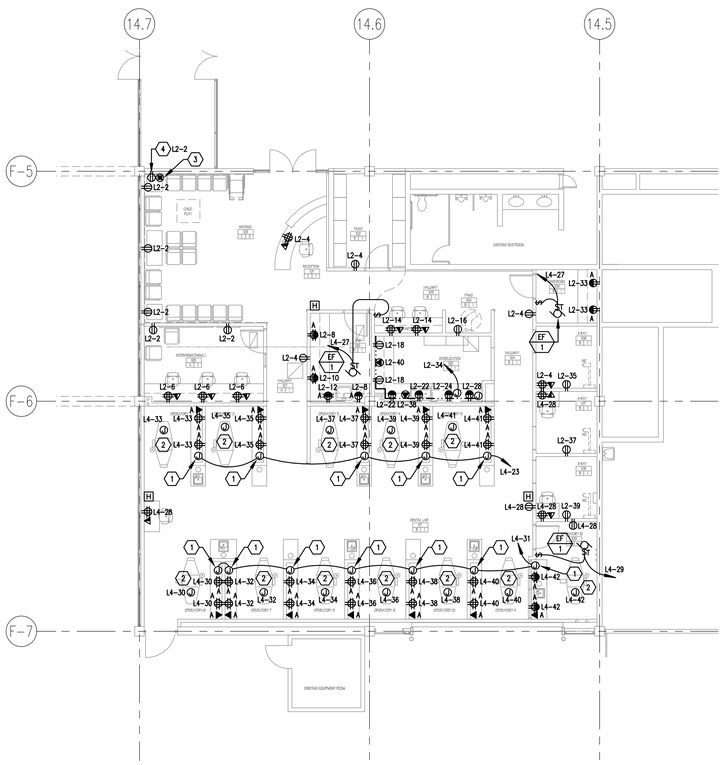
By: jwrhodi, Apr 08, 2010 - 9:56am
F:\2010\10064A\DWG\10064A-EL201.dwg

SHEET KEYNOTES

1. PROVIDE CONNECTION TO X-RAY VIEWBOX. COORDINATE ROUGH-IN WITH VIEWBOX INSTALLER.
2. PROVIDE CONNECTION TO DENTAL CHAIR. STUB CONDUIT INTO CHAIR FROM BELOW SLAB COORDINATE ROUGH-IN WITH CHAIR INSTALLER.
3. EXISTING TELEVISION OUTLET AT +96".
4. EXISTING RECEPTACLE LOCATION AT +96". PROVIDE NEW CIRCUIT INDICATED WITH NEW DEVICE AND COVERPLATE.

SHEET KEYNOTES POWER DEMO

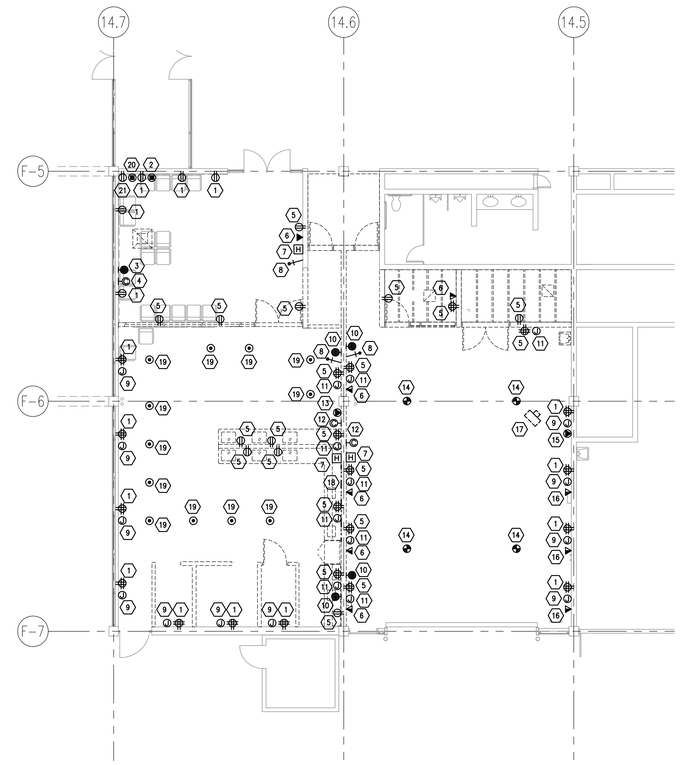
1. EXISTING RECEPTACLE LOCATION TO BE REMOVED. REMOVE DEVICE, WIRING AND PROVIDE BLANK COVERPLATE.
2. EXISTING TELEVISION OUTLET TO BE REMOVED. REMOVE OUTLET, CABLING AND PROVIDE BLANK COVERPLATE.
3. EXISTING INTERCOM SPEAKER TO REMAIN.
4. EXISTING CLOCK TO REMAIN.
5. EXISTING RECEPTACLE LOCATION TO BE REMOVED. REMOVE ASSOCIATED CONDUIT, BOX, WIRING, SUPPORTS, ETC.
6. EXISTING TELECOMMUNICATIONS OUTLET TO BE REMOVED. REMOVE ASSOCIATED CONDUIT, BOX,CABLING, SUPPORTS, ETC.
7. EXISTING FIRE ALARM HORN/STROBE TO BE RELOCATED. SEE POWER PLAN THIS SHEET FOR NEW LOCATION.
8. EXISTING CALL SWITCH TO BE REMOVED. REMOVE ASSOCIATED CONDUIT, BOX, CABLING, SUPPORTS, ETC.
9. EXISTING JUNCTION BOX TO REMAIN. PROVIDE BLANK COVERPLATE.
10. EXISTING INTERCOM SPEAKER TO BE REMOVED. REMOVE ASSOCIATED BACK BOX, CONDUIT, CABLING, SUPPORTS, ETC.
11. EXISTING JUNCTION BOX TO BE REMOVED. REMOVE ASSOCIATED CONDUIT, SUPPORTS, ETC.
12. EXISTING CLOCK TO BE REMOVED.
13. EXISTING SPECIAL PURPOSE OUTLET TO BE REMOVED. REMOVE ASSOCIATED CONDUIT, BOX, WIRING, SUPPORTS, ETC.
14. EXISTING CORD DROP TO BE REMOVED. REMOVE ASSOCIATED CONDUIT, BOX, WIRING, SUPPORTS, ETC.
15. EXISTING SPECIAL PURPOSE OUTLET TO BE REMOVED. REMOVE DEVICE, WIRING AND PROVIDE BLANK COVERPLATE.
16. EXISTING TELECOMMUNICATIONS TO BE REMOVED. REMOVE OUTLET, CABLING AND PROVIDE BLANK COVERPLATE.
17. EXISTING UNIT HEATER TO BE REMOVED BY DIVISION 15. REMOVE POWER CONNECTION BACK TO PANEL.
18. EXISTING PLUG MOLD TO BE REMOVED. REMOVE ASSOCIATED BOX, CONDUIT, WIRING, ETC.
19. EXISTING FLOOR OUTLET SERVING DENTAL CHAIR TO BE REMOVED.
20. EXISTING TELEVISION OUTLET AT +96" TO REMAIN.
21. EXISTING RECEPTACLE AT +96" TO REMAIN. SEE POWER PLAN THIS SHEET FOR NEW REQUIREMENTS.



PLAN NORTH

POWER PLAN
1/8" = 1'-0"

0 4' 8' 16'



PLAN NORTH

DEMOLITION POWER PLAN
1/8" = 1'-0"

0 4' 8' 16'

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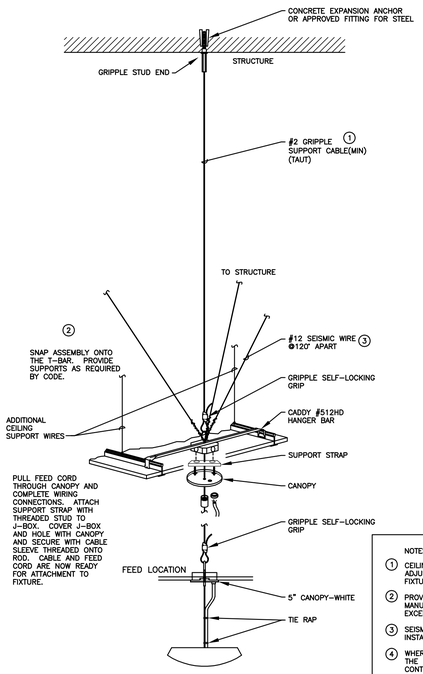
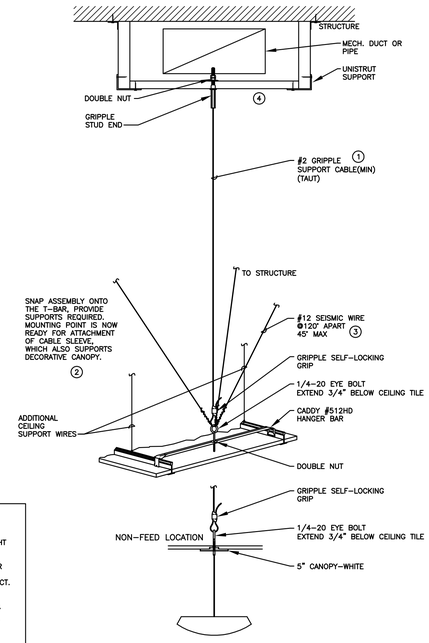
POWER AND DEMOLITION POWER PLANS

EP301

SHEET OF

By: jwertsch Apr 08, 2010 - 9:56am
J:\2010\10064\Utah Valley\10064-EP301.dwg





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 MANUFACTURERS 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

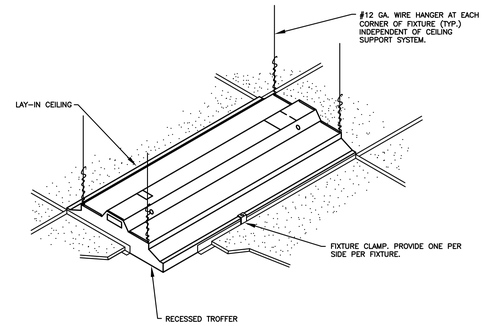


DIAGRAM A001 TYP. RECESSED FIXTURE MOUNTING
NTS

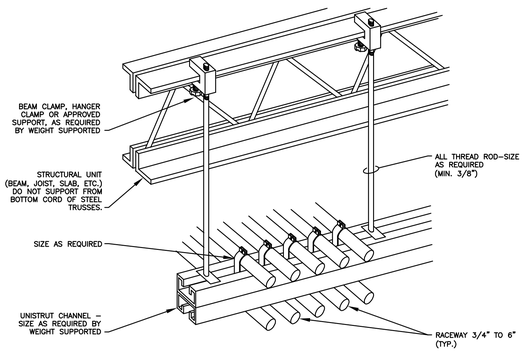


DIAGRAM H001 TYPICAL TRAPEZE CONDUIT RACK
NTS

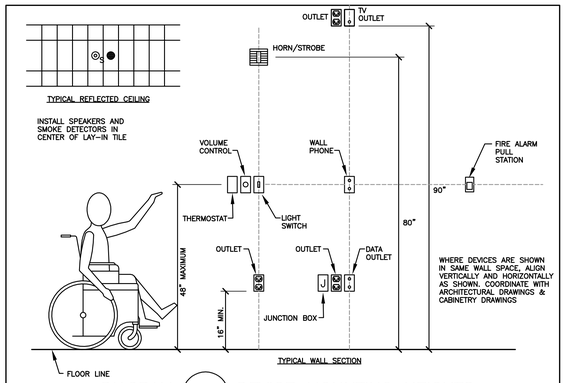
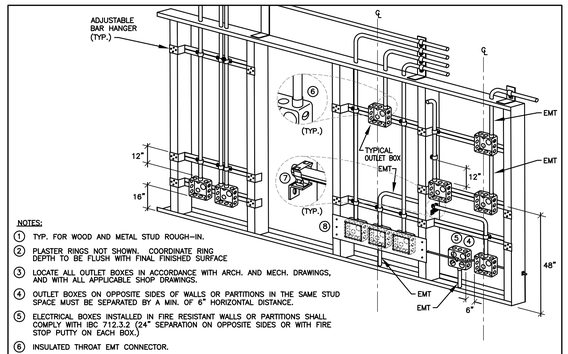


DIAGRAM R001 DEVICE MOUNTING HEIGHTS
NTS



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

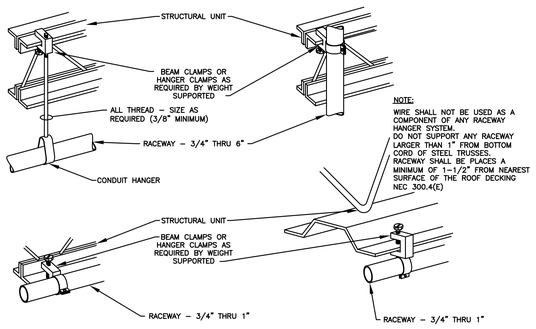
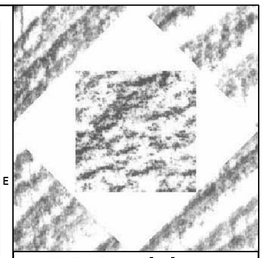


DIAGRAM H003 TYPICAL RACEWAY SUPPORT METHODS
NTS



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ELECTRICAL DIAGRAMS

EX501

SHEET OF

By: jwright, Apr 08, 2010 – 9:56am
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