

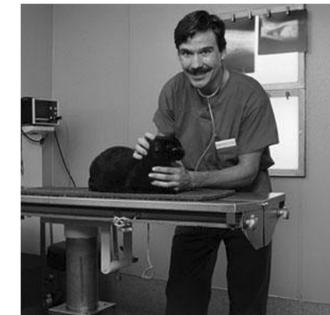
BRIDGERLAND APPLIED TECHNOLOGY COLLEGE
VETERINARY TECHNICIAN CLASSROOM & LABORATORY



CONSTRUCTION DOCUMENTS

DFCM PROJECT #07138210

JULY 18, 2007



ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	F.A.	FIRE ALARM	R.O.	ROUGH OPENING
A.S.	ASPHALT	FIN.	FINISHED	RM	ROOM
ASPH.	ASPHALT	F.H.	FIRE HYDRANT	REIN.	REINFORCED
&	AND	F.V.	FIELD VERIFY	REC.	RECESSED
@	AT	G.W.B.	GYPSPUM WALLBOARD	R.W.	RETAINING WALL
ALUM.	ALUMINUM	GYP.	GYPSPUM	S.	SCUPPER
ARCH.	ARCHITECTURAL	GALV.	GALVANIZED	S.B.U.	STRUCTURAL BRICK UNIT
BLDG.	BUILDING	G.I.	GALVANIZED IRON	SF.	SQUARE FOOT
BTM.	BOTTOM	H.M.	HOLLOW METAL	STOR.	STORAGE
BD.	BOARD	H.C.	HANDICAP	SIM.	SIMILAR
C.G.	CORNER GUARD	H.P.	HIGH POINT	SUSP.	SUSPENDED
CT.J.	CONTRACTION JOINT	HT.	HEIGHT	SYS.	SYSTEM
CL.	CENTER LINE	HORIZ.	HORIZONTAL	SPECS.	SPECIFICATIONS
CONC.	CONCRETE	H.W.	HARDWOOD	STRG.	STORAGE
CONC.M.U.	CONCRETE MASONRY UNIT COMPANY	INSUL.	INSULATION	STRUC.T.	STRUCTURAL
CORR.	CORRIDOR	I.D.	INSIDE DIAMETER	ST.	STEEL
COL.	COLUMN	K.O.	KNOCK OUT	SCH.	SCHEDULE
COMP.	COMPUTER	K.W.	KILOWATTS	S.S.	STAINLESS STEEL
CONT.	CONTINUOUS	LBS.	POUNDS	S.W.	SOFT WOOD
C.S.	CLOSURE STRIP	MECH.	MECHANICAL	SERV.	SERVICE
CLS.	CLOSET	MEZZ.	MEZZANINE	TYP.	TYPICAL
C.T.	CERAMIC TILE	MFR/MFR	MANUFACTURER	TRANS.	TRANSFORMER
CLR.	CLEAR	MGR.	MANAGER	T & B	TOP AND BOTTOM
C.O.	CLEAN OUT	M.T.	MEN'S TOILET	T.O.	TOILET
C.O.T.G.	CLEAN OUT TO GRADE	MTL.	METAL	T.	TOP
CL.	CAST IRON	MAX.	MAXIMUM	U.O.N./U.N.O.	UNLESS OTHERWISE NOTED
DEPT.	DEPARTMENT	MIN.	MINIMUM	UR.	URINAL
DIA.	DIAMETER	M.O.	MASONRY OPENING	VAR.	VARIABLE
D.F.	DRINKING FOUNTAIN	M.H.	MANHOLE	VEST.	VESTIBULE
DN.	DOWN	MACH.	MACHINERY	VERT.	VERTICAL
DISP.	DISPENSER	M.C.C.	MOTOR CONTROL CENTER	W.C.	WATER CLOSET
DNH.	DIMENSION	MISC.	MISCELLANEOUS	W.H.	WATER HEATER
DT./DTL./DET.	DETAIL	N.	NORTH	W.D.	WOMEN'S TOILET
DWG./DRWG.	DRAWING	N.O.	NUMBER	W.	WOOD
DRN.	DRAIN	N.I.C.	NOT IN CONTRACT	WSCT.	WAINSCOT
EA.	EACH	NOM.	NOMINAL	W.	WITH
ELEV./EL.	ELEVATION	N.T.S.	NOT TO SCALE	W.W.F.	WELDED WIRE FABRIC
EXIST./E	EXISTING	OPG.	ON CENTER OPENING		
ELECT.	ELECTRICAL	O.C.	ON CENTER		
EQUIP.	EQUIPMENT	O.H.	OVERHEAD		
E.E.S.	EMERGENCY EYEWASH AND SHOWER	O.D.	OUTSIDE DIAMETER		
E.J.	EXPANSION JOINT	PERM.	PERIMETER		
EIF.	EXTERIOR INSULATION SYSTEM	PL.	PLATE		
EVAP.	EVAPORATIVE	PNTH.	PENTHOUSE		
EXP.	EXPANSION	PTN.	PARTITION		
F.G.	FINISH GRADE	P.W.	PLYWOOD		
F.D.	FLOOR DRAIN	P.O.C.	POINT OF CONNECTION		
FDN./FDNT.	FOUNDATION	P.C.	PORTLAND CEMENT		
F.E.	FIRE EXTINGUISHER	PNL.	PANEL		
FT.G.	FOOTING	P.F.H.	PERIMETER FELT JOINT		
FLR.	FLOOR	Q.T.	QUARRY TILE		
		R.D.	ROOF DRAIN		

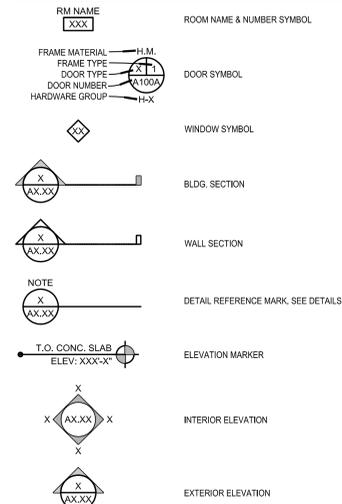
PROJECT TEAM

ARCHITECT
 VCBO Architecture
 Nicholas Schou
 524 South 600 East
 Salt Lake City, Utah 84102
 Phone: (801) 575-8800
 Fax: (801) 531-9850
 WWW: vcboarchitecture.com

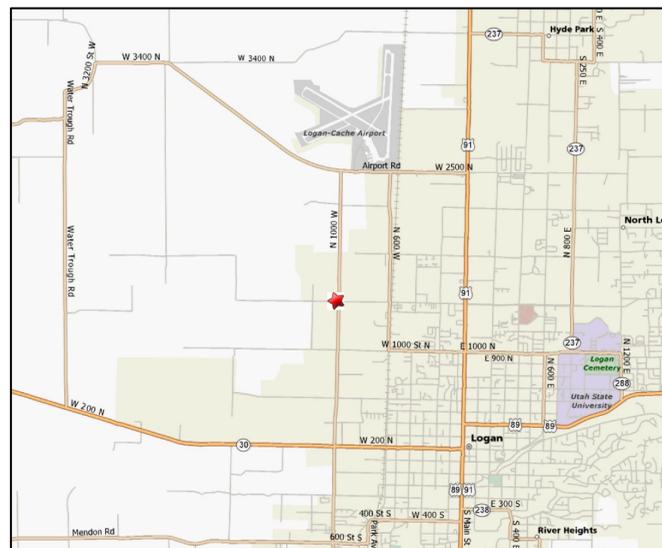
MECHANICAL
 WHW Engineering Inc.
 Steve Wadsworth
 1348 E 3300 S, Suite 201
 Salt Lake City, Utah 84106
 Phone: (801) 466-4021
 Fax: (801) 466-8536

ELECTRICAL
 ECE
 Akbar Matinkhan
 939 South West Temple
 Salt Lake City, Utah 84101
 Phone: (801) 521-8007
 Fax: (801) 521-8057

SYMBOL LEGEND



VICINITY MAP



DESIGN DATA

CODE ANALYSIS

APPLICABLE CODES			
	Year		Year
International Building Code	2006 IBC	National Electrical Code	2005 IBC
International Mechanical Code	2006 IMC	Uniform Code for Building Conservation	1997 UCBC
International Plumbing Code	2006 IPC	ADA Accessibility Guidelines	2003 IBC
International Fire Code	2006 IFC		
International Energy Conservation Code	ASHRAE 90.1 2004		

A. Occupancy and Group: **B - EDUCATION ABOVE 12TH GRADE**

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

B. Seismic Design Category: **NA** Design Wind Speed: **NA** mph

C. Type of Construction (circle one): (EXISTING CLASSIFIED TYPE I PER 1979 UBC)

I	I	II	II	III	III	IV	V	VI
A	B	A	B	A	B	HT	A	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: _____ Nonseparated Uses: **X**

F. Sprinklers:
 Required: **X** Provided: **X**

G. Number of Stories: **1** Building Height: **21'**

H. Actual Area per Floor (square feet): **88,250 SQUARE FEET**

I. Tabular Area: **NA**

J. Area Modifications: **NA**

K. Fire Resistance Rating Requirements for Building Elements (hours). Table 601

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	
Partitions - Permanent	0		Fire Walls	-	
Fire Barriers	-		Fire Partitions	1	
			Smoke Partitions	1	

L. LEVEL (1) Design Occupant Load: **NA - NO CHANGE**

M. Minimum Number of Required Plumbing Facilities: **NA - NO CHANGE**

a) Water Closets - Required (m) 10 (f) 16 Provided (m) 19 (f) 20
 b) Lavatories - Required (m) 8 (f) 8 Provided (m) 10 (f) 11
 c) Bath Tubs or Showers: **NA**
 d) Drinking Fountains: 6 Service Sinks: 3

DRAWING INDEX

GENERAL		MECHANICAL	
G0.1	GENERAL INFORMATION	MG001	MECHANICAL GENERAL NOTES & LEGENDS
ARCHITECTURAL		ME101	MECHANICAL PLAN
AS001	SITE PLAN	ME201	MECHANICAL DETAILS
AE100	OVERALL BUILDING PLAN	ME601	MECHANICAL SCHEDULES
D101	DEMOLITION PLAN	PLUMBING	
AE101	ENLARGED FLOOR PLAN	PG001	PLUMBING GENERAL NOTES & LEGENDS
AE101A	DIMENSIONED FLOOR PLAN	PE101	PLUMBING PLAN
AE111	REFLECTED CEILING PLAN	PE201	PLUMBING DETAILS & SCHEDULES
AE300	BUILDING SECTION	ELECTRICAL	
AE500	ADA REQUIREMENTS	E001	NOTES, SYMBOL LIST AND FIXTURE SCHEDULE
AE501	INTERIOR ELEVATIONS & MILLWORK DETAIL	E002	DETAILS
AE601	DOOR SCHEDULE & FRAME TYPES	ED101	DEMOLITION FLOOR PLAN - ELECTRICAL
		E101	FLOOR PLAN - ELECTRICAL
		E111	FLOOR PLAN - LIGHTING

NOTES

THIS SHEET CONTAINS A LIST OF DRAWINGS WHICH COMPRISE A FULL SET OF DRAWINGS FOR THIS PROJECT. ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT SHALL BE RESPONSIBLE FOR THE INFORMATION CONTAINED IN ANY AND ALL SHEETS OF DRAWINGS AND SPECIFICATIONS. IF ANY PERSON, PARTY OR ENTITY ELECTS TO SUBMIT BIDS FOR ANY PORTION OR ALL OF THIS PROJECT, THAT PERSON, PARTY OR ENTITY SHALL BE RESPONSIBLE FOR ANY AND ALL INFORMATION CONTAINED IN THESE DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO, ANY SUBSEQUENT ADDENDUMS OR CLARIFICATIONS THAT MAY BE ISSUED.



ARCHITECTURE
 VALENTINER
 CRANE
 BRUNJES
 ONYON

VCBO ARCHITECTURE
 524 SOUTH 600 EAST
 SALT LAKE CITY, UTAH 84102
 Phone: (801) 575-8800
 Fax: (801) 531-9850
 WWW: www.vcbo.com

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Rev #	Date	Description

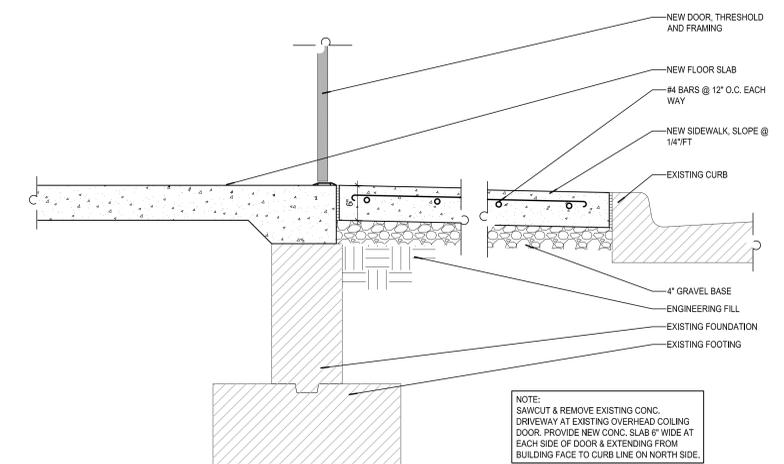
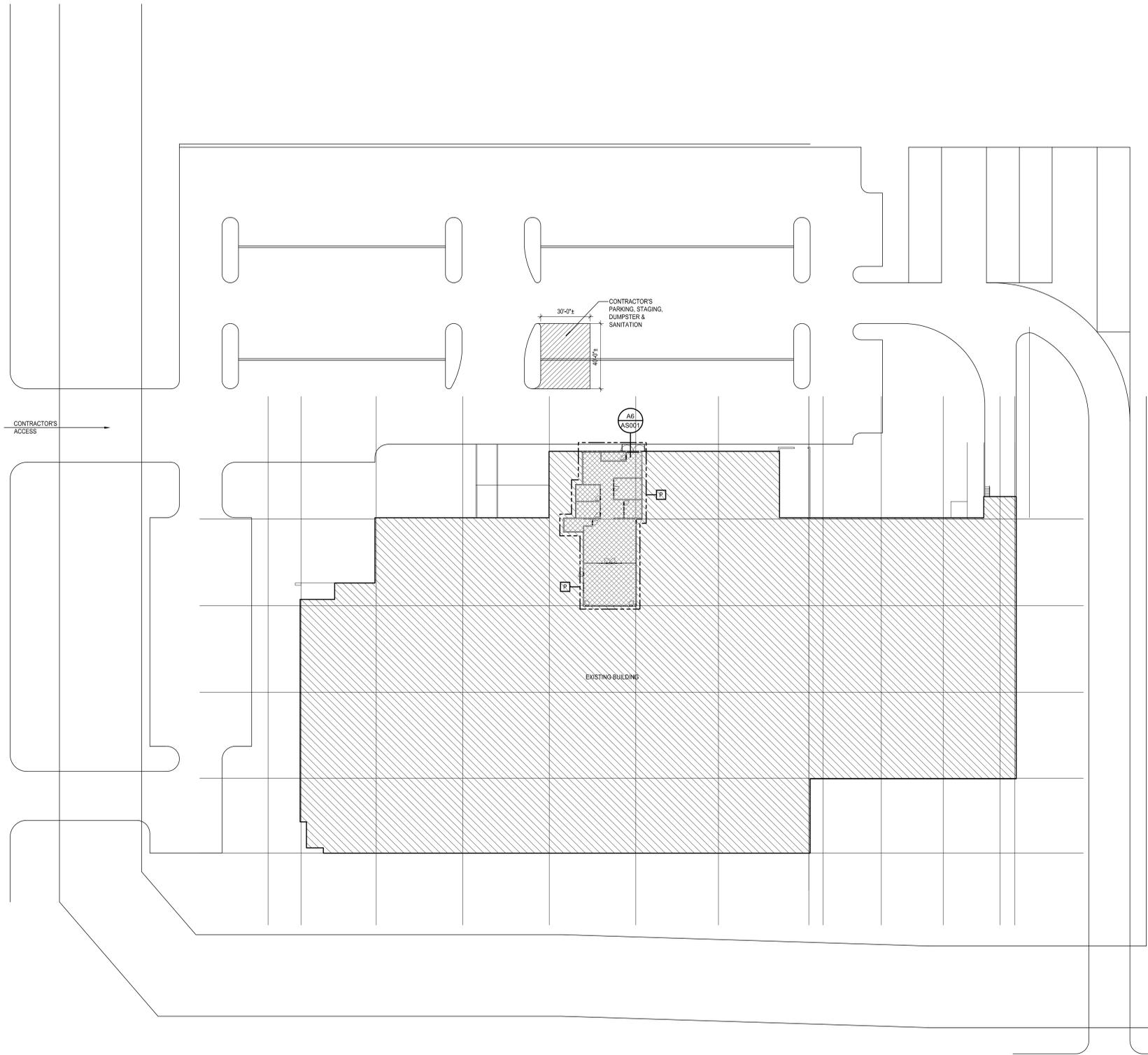
Job #	06650
CAD File	g0_01.dwg
Drawn	Checked
Date	07.18.07
Owner #	
Ins #	

GENERAL INFORMATION

LINE TYPE LEGEND	
---	PROJECT LIMIT LINE

MATERIALS LEGEND	
	EXISTING BUILDING
	NEW ADDITION

GENERAL SITE NOTES	
1.	ALL EXISTING LANDSCAPED AREAS ARE TO REMAIN UNDISTURBED EXCEPT AS INDICATED ON SITE PLAN. ANY DAMAGE CAUSED BY CONSTRUCTION RELATED ACTIVITIES (I.E. CONTRACTOR'S STAGING AREAS, HEAVY EQUIPMENT, ETC.) SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE AND RETURNED TO ITS ORIGINAL CONDITION.
2.	CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY FACILITIES REQUIRED TO PROVIDE A SAFE SITE. ALL FENCING, COVERED CORRIDORS, BARRICADES, ETC., ARE THE RESPONSIBILITY OF THE CONTRACTOR.
3.	G.C. IS RESPONSIBLE FOR ALL FIRE WATCHES OR OTHER SAFETY MEASURES REQUIRED BY AUTHORITY HAVING JURISDICTION FOR DURATION OF CONSTRUCTION PROJECT.
4.	CONTRACTOR SHALL NOT DISRUPT THE FLOW OF TRAFFIC INTO OR OUT OF THE SITE WITHOUT PRIOR CONSENT.
5.	CONTRACTOR SHALL NOT DISRUPT ANY UTILITY CURRENTLY FUNCTIONAL AT THE FACILITY IN ANY WAY THAT WILL DISRUPT OR OTHERWISE COMPROMISE THE FUNCTION OF THE BUILDING WITHOUT PRIOR CONSENT FROM THE OWNER.



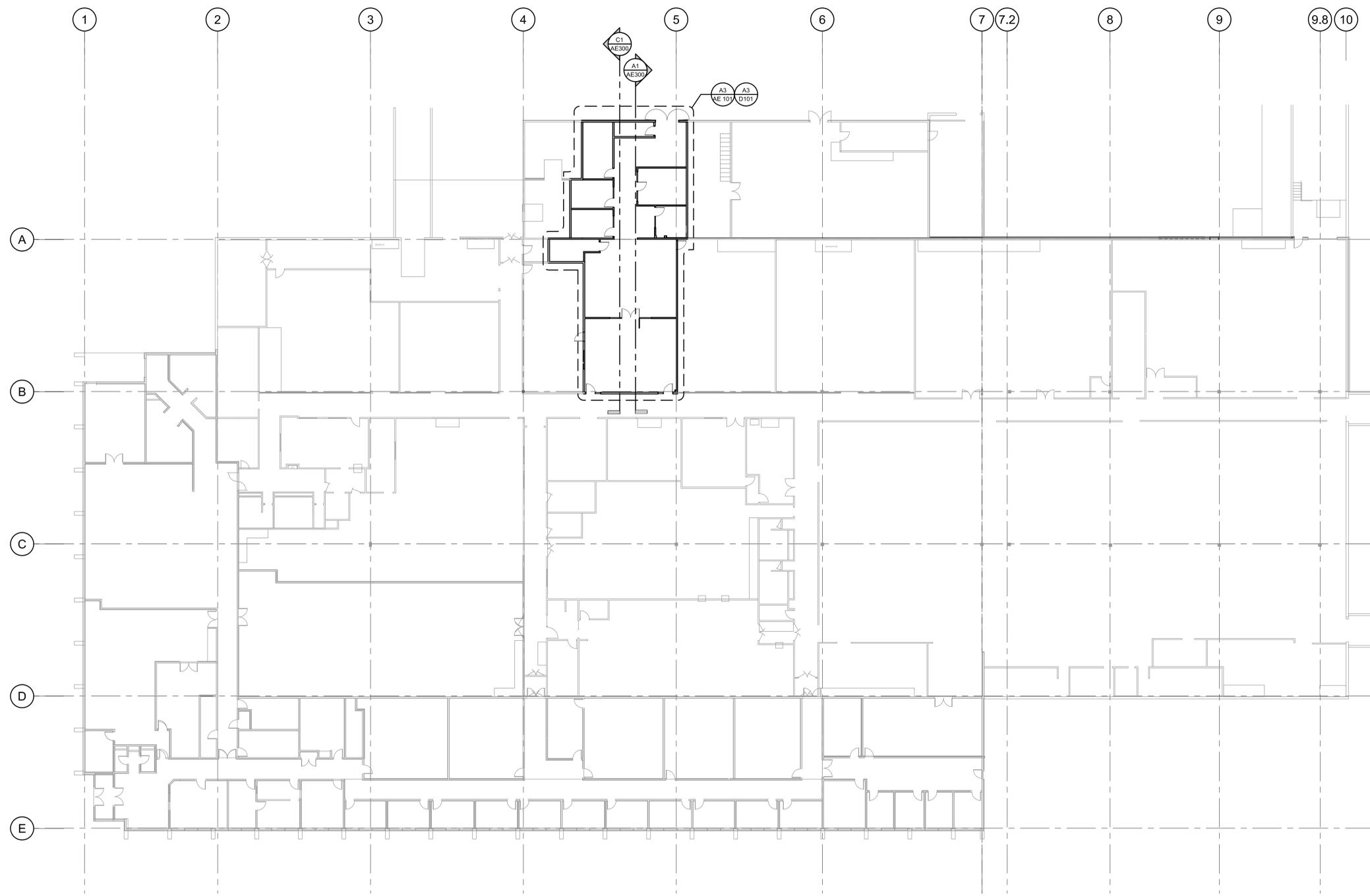
A1 SITEPLAN
SCALE: 1" = 30'
PLAN NORTH

A6 SIDEWALK @ ENTRANCE
SCALE: 1" = 1'-0"



ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UTAH 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com



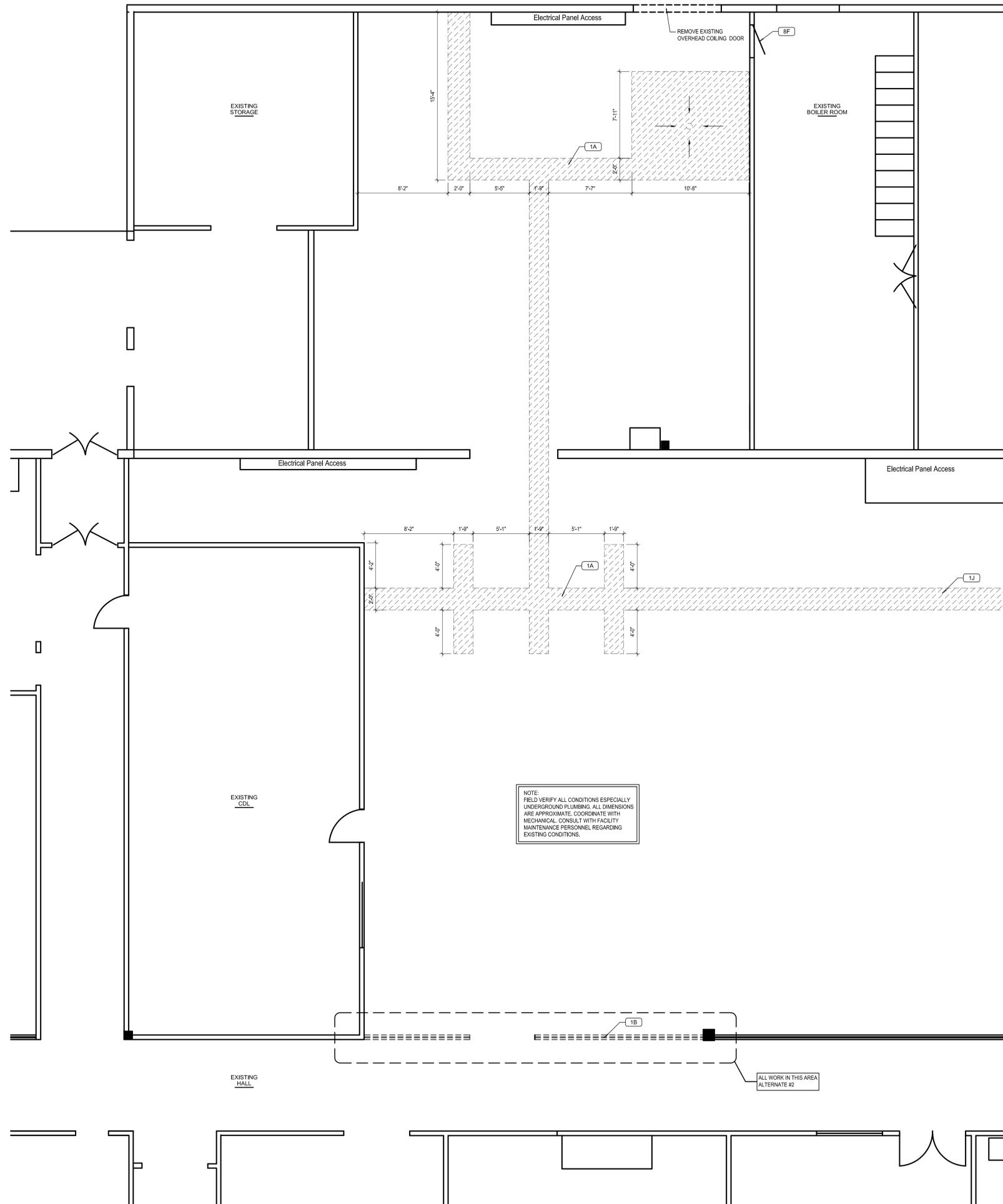
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Date 07.18.07
Owner #
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OVERALL BUILDING FLOOR PLAN

A1 OVERALL BUILDING FLOOR PLAN
SCALE: 1/16" = 1'-0"



KEYED NOTES

DIVISION 1 - DEMOLITION

- 1A REMOVE & REPLACE EXISTING SLAB
- 1B REMOVE EXISTING WALL
- 1J COORDINATE W/ PLUMBING DRAWINGS, LOCATE ALL UNDERGROUND UTILITIES PRIOR TO DEMOLITION

DIVISION 8 - DOORS & WINDOWS

- 8F REMOVE DOOR & REPAIR WALL, MAINTAIN FIRE RATING

DEMOLITION NOTES

1. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BIDDING.
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS TO DETERMINE ALL VARIANCES NOT SHOWN ON THE CONTRACT DOCUMENTS.
3. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL EXISTING AND NEW OUTLETS, MECHANICAL GRILLES AND ELECTRICAL REQUIREMENTS.
4. CONTRACTOR SHALL CROSS REFERENCE WITH ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL DEMOLITION WHICH IS REQUIRED.
5. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT CALLED FOR DEMOLITION DURING REMODEL OF WALLS, FLOORING MATERIAL, CASEWORK, DOORS, WINDOWS, CEILINGS, AND SITE.
6. CONTRACTOR MUST NOTIFY SCHOOL DISTRICT PROJECT COORDINATOR OF WORK HOURS PRIOR TO DEMOLITION.
7. ALL EXISTING INTERIOR FINISHES, MATERIALS, STRUCTURE SYSTEMS, LANDSCAPING AND SITE FEATURES ETC. DAMAGED DURING THE DURATION OF THE CONTRACT ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION OR BE REPLACED AT CONTRACTORS EXPENSE.
8. INTERIOR DEMOLITION AND CONSTRUCTION SCHEDULES AND PROCEDURES ARE TO BE COORDINATED WITH THE OWNER.
9. ADEQUATE FIRE EGRESS FOR OCCUPANTS IN THE EXISTING BUILDING IS TO BE COORDINATED WITH THE OWNER AND PROVIDED FOR THE DURATION OF THE CONTRACT.
10. ALL LAWN AND TREES AND SHRUBS LOCATED WITHIN THE EXTENTS OF NEW CONSTRUCTION SHALL BE REMOVED, U.N.O.
11. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITY LINES, LOCATIONS SHOWN ARE APPROXIMATE.
12. CEILINGS IN DEMOLITION SCOPE ARE TO BE REMOVED TO RATED GYP. BD ASSEMBLY U.N.O. WHERE RATED ASSEMBLIES MUST BE REMOVED, CONTRACTOR TO RECONSTRUCT ASSEMBLY TO MATCH EXISTING.
13. ALL LIGHT FIXTURES IN DEMOLITION SCOPE OF WORK ARE TO BE REMOVED AND SALVAGED TO OWNER.
14. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL SPRINKLER LINES AND CONTROLS IN LANDSCAPED AREAS AFFECTED BY NEW CONSTRUCTION. ALL LINES TO BE CAPPED OR REROUTED TO ACCOMMODATE RECONFIGURED LANDSCAP AREA. LANDSCAPING UNAFFECTED BY CONSTRUCTION MUST MAINTAIN A FUNCTIONING IRRIGATION SYSTEM.
15. REFER TO SPECIFICATION DIVISION 16 FOR DEMOLITION OF ELECTRICAL DEVICES.
16. ALL EXISTING FIRE RATINGS ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION

GENERAL DEMOLITION NOTES

1. CONTRACTOR TO VERIFY ALL CONDITIONS ON SITE. ANY DISCREPANCIES TO BE REPORTED TO ARCHITECT IMMEDIATELY.
2. CONTRACTOR TO TAKE EXTREME CARE TO PROTECT ALL EXISTING SURFACES, SYSTEMS AND ALL ITEMS TO REMAIN.
3. ANY EQUIPMENT UNCOVERED OR FOUND THAT IS NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO ARCHITECT'S ATTENTION IMMEDIATELY.
4. AFTER DEMOLITION, PRIOR TO FINISH, PATCH AND REPAIR ALL EXISTING WALLS AS NECESSARY TO PROVIDE SMOOTH SURFACE SUITABLE FOR PAINTING OR WALL COVERING.
5. REPLACE OR REPAIR GYPSUM BOARD AFTER DEMOLITION WHERE WALLS HAVE BEEN DAMAGED DUE TO THE REMOVAL OF ADJACENT WALL AND/ OR DUE TO PREVIOUS DAMAGE. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WALL.
6. CONTRACTOR SHALL REMOVE ALL LIGHT SWITCHES, WIRING DEVICES, CONDUIT, CONDUCTORS, ETC FROM THE WALLS BEING DEMOLISHED. DISCONNECT CONDUCTORS IN THE NEAREST J-BOX IN THE CEILING PLENUM.
7. ALL CONCEALED CONDUIT THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISHED SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AND REMOVED FROM THE CONDUIT.
8. IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED DUE TO NATURE OF THE FACILITY, MAKE ALL NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN CIRCUIT INTEGRITY.
9. ANY ELECTRICAL, MECHANICAL DEVICES OR OTHER ITEMS REMOVED DURING DEMOLITION SHOULD BE SALVAGED TO OWNER'S STOCK.
10. CARE SHOULD BE TAKEN AS NOT TO DAMAGE ANY HVAC CONTROLS AND WIRING DURING DEMOLITION AND RENOVATION PROCESS. ANY DAMAGE SHOULD BE REPORTED IMMEDIATELY, SO THAT THEY MAY BE EASILY CORRECTED BEFORE PROBLEMS DEVELOP.

DEMOLITION LEGEND

	REMOVE & REPLACE EXISTING FLOOR SLAB.
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A3 DEMOLITION PLANS
SCALE: 1/4" = 1'-0"



VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UTAH 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

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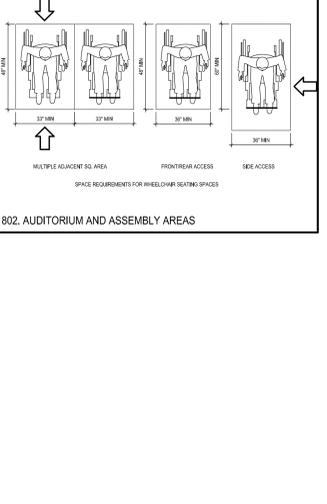
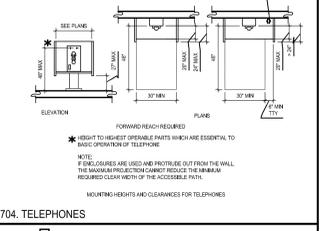
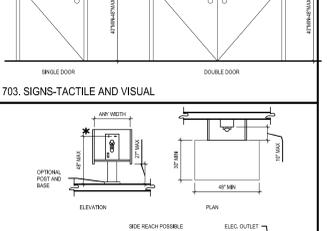
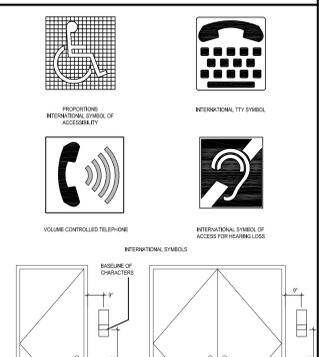
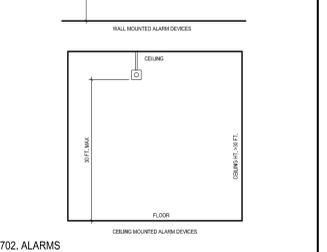
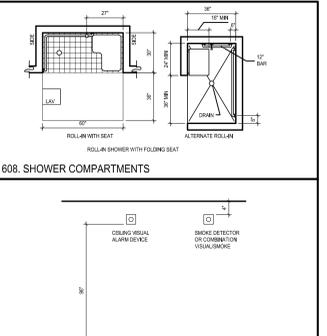
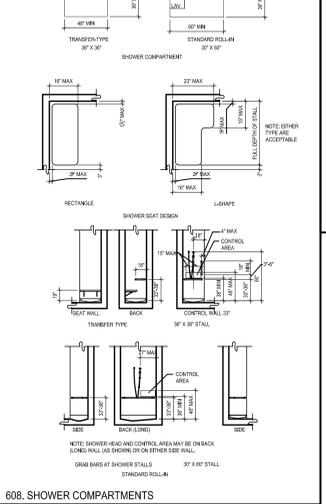
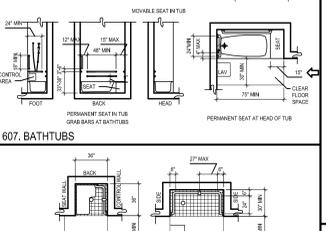
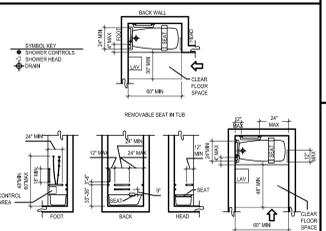
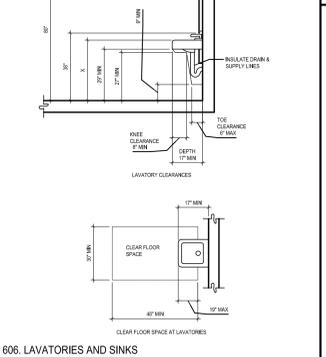
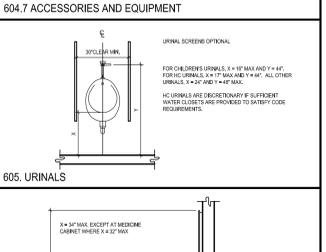
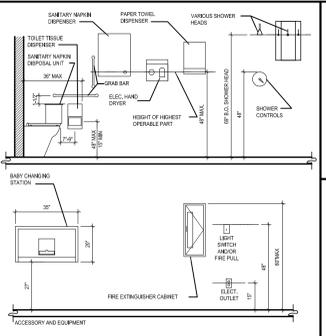
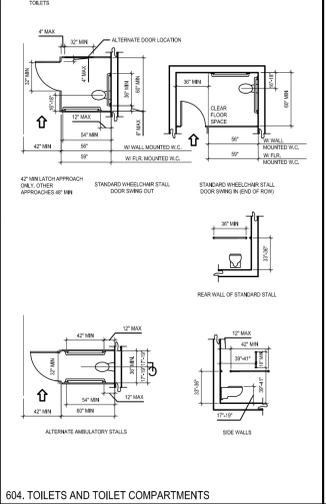
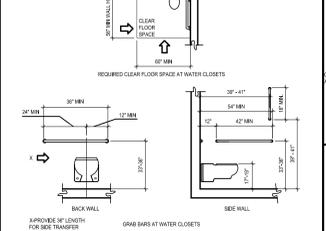
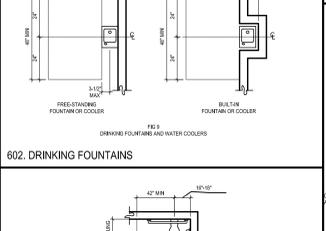
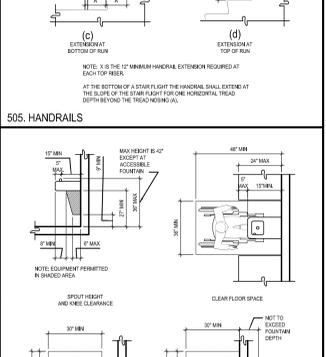
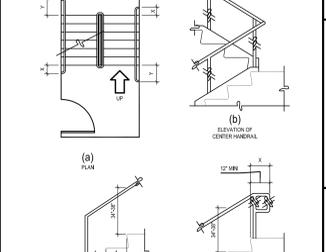
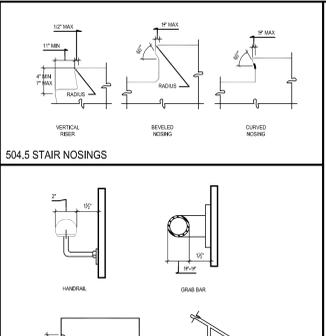
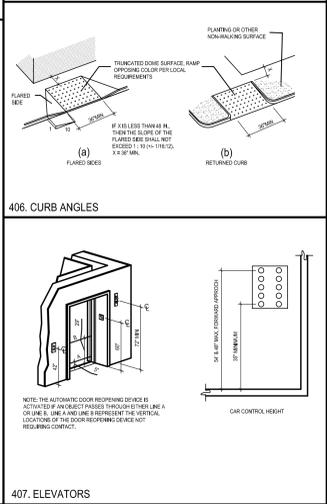
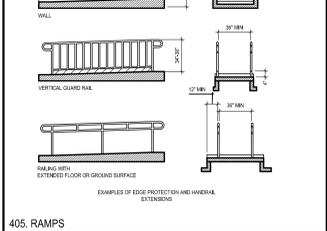
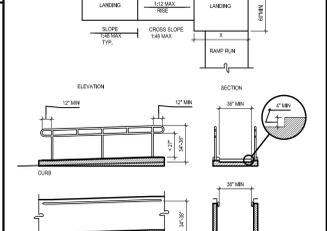
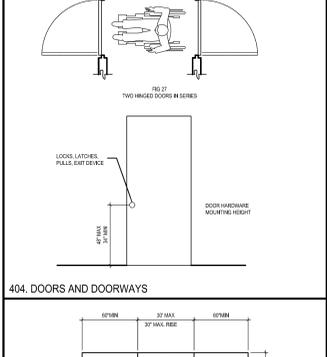
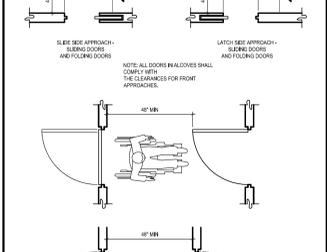
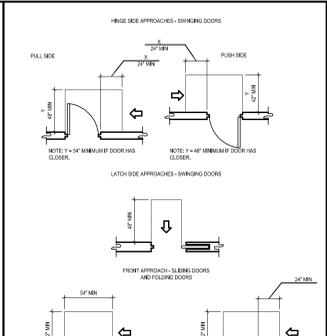
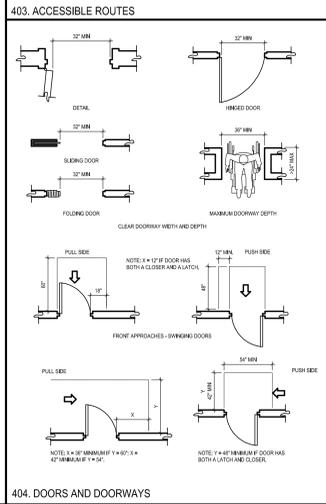
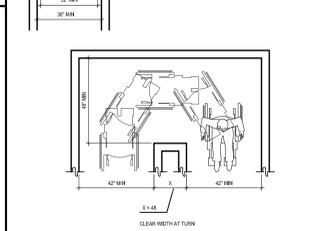
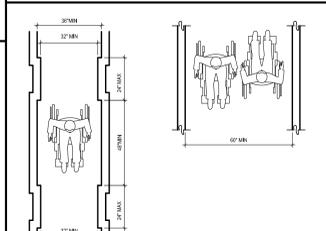
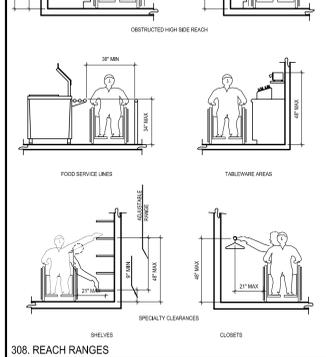
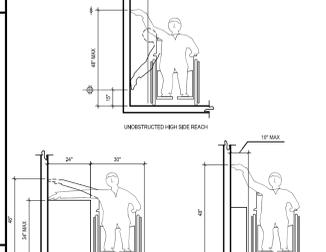
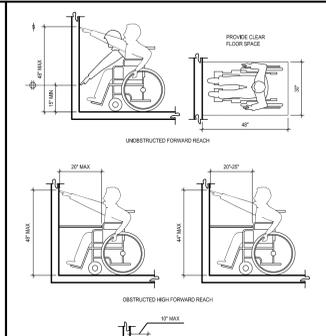
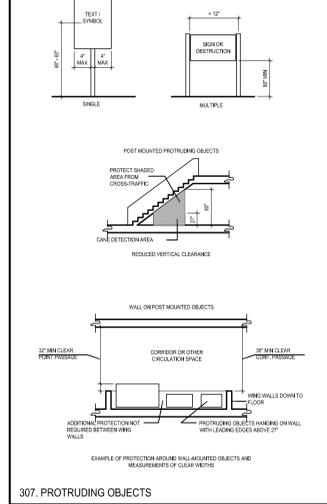
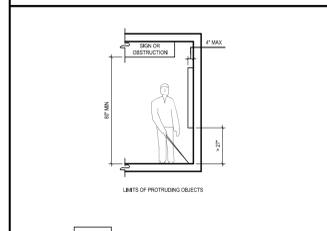
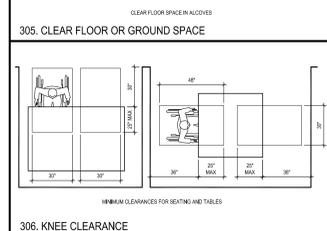
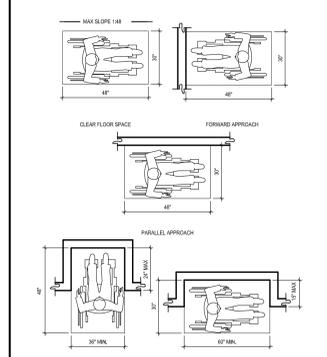
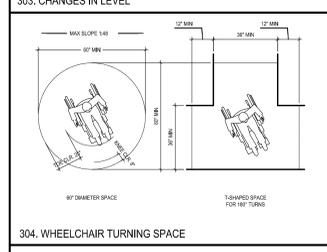
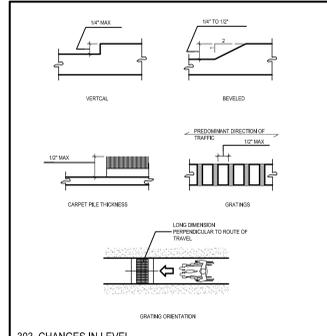
Rev # Date Description

Job # 06650
CAD File 4/17/17.dwg
Drawn Checked
Date 07.18.07
Owner #
Iss. #

ENLARGED DEMOLITION PLAN

D101

Sheet of Sheets



GENERAL NOTES

1. FINISH SCHEDULE REFER TO AIAA 111-2003 CHAPTER SECTION NUMBER.
2. ACCESSIBLE ROUTES SHALL HAVE FINISH SURFACES WITH A FINISH SLOPE NO STEEPER THAN 1:20. CROSS SLOPE NO STEEPER THAN 1/4\"/>

WALL TYPES LEGEND	
	EXISTING PRECAST CONCRETE TILT-UP WALL WITH EXTERIOR INSULATION
	EXISTING INTERIOR PRECAST TILT-UP CONCRETE WALL
	NEW 2"x4" STUD WALL WITH 2 LAYERS 5/8" GYP BOARD EACH SIDE ADJACENT TO AND INCLUDED IN NEW WORK. MAINTAIN EXISTING WALL, PATCH AND REPAIR EXISTING WALL WHERE REQUIRED
	NEW 2"x4" OR 2"x6" STUD WALL WITH 5/8" GYP BOARD. EXTEND TO 12" ABOVE FINISH CEILING. BRACE TO STRUCTURE AT 48" O.C. MAXIMUM
	NEW 2"x4" OR 2"x6" STUD WALL WITH 1/2" TYPE 'X' GYP BOARD EACH SIDE. EXTEND TO STRUCTURAL ROOF DECK- SEE DIMENSION PLAN FOR WIDTH.
	NEW 2"x4" STUD WALL WITH 5/8" GYP BOARD. EXTEND TO 12" ABOVE FINISH CEILING. BRACE TO STRUCTURE AT 48" O.C. MAXIMUM WITH SOUND BLANKET INSULATION. EXTEND INSULATION ACROSS CEILING 4' BOTH SIDES
	EXISTING INTERIOR PRECAST TILT-UP CONCRETE WALL WITH FURRING

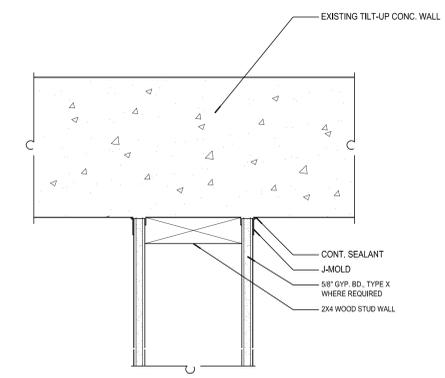
FINISHES	
	WALL
	FLOOR
	WALL
	BASE
	WALL
NOTE	
	CHANGE AT FLOOR MATERIAL

FLOOR MATERIALS	
F1	VINYL COMPOSITE TILE
F2	EPOXY CONCRETE
F3	TRAFFIC COATING
F4	CARPET

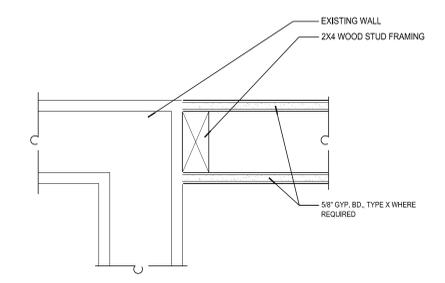
BASE MATERIALS	
B1	4" RUBBER BASE
B2	4" CARPET BASE

WALL MATERIALS	
W1	GYP. BD. PAINTED GENERAL PAINT (EPOXY PAINT AT WET AREAS, TYP.) C.S.B.A.
W2	FIBERGLASS REINFORCED PANEL 10'-0" A.F.F.
W3	EXISTING EXPOSED CONCRETE WALL

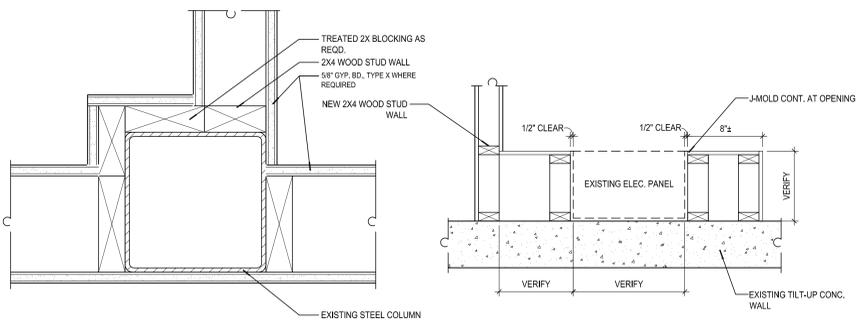
- NOTES**
- 1) 1/2" CEMENTITIOUS BACKER BOARD, IN LIEU OF GYP. BD., REQUIRED BEHIND ALL WALL TILE OR F.P.P. PANELS.
 - 2) WHERE SHOWN - ALL FURNITURE SHOWN DASHED ARE FOR REFERENCE ONLY. SEE PLANS AND SPECIFICATIONS FOR ANY BASE CONTRACT FURNITURE TO BE PROVIDED.
 - 3) SOUND BATT INSULATION TO RUN FULL LENGTH AND HEIGHT OF STUD WALLS. EXTEND OVER ADJACENT CEILINGS 4'
 - 4) WHERE FINISH IS NOT NOTED PROVIDE FINISH OF ADJACENT WALL OR FLOOR SURFACE.
 - 5) ALL EXPOSED STRUCTURAL STEEL, DUCTWORK, CONDUIT, PIPING, ETC., THAT IS EXPOSED TO VIEW SHALL BE FULLY PAINTED, COLOR BY ARCHITECT.



C1 PLAN DETAIL @ STUD WALL TO TILT-UP
SCALE: 3" = 1'-0"

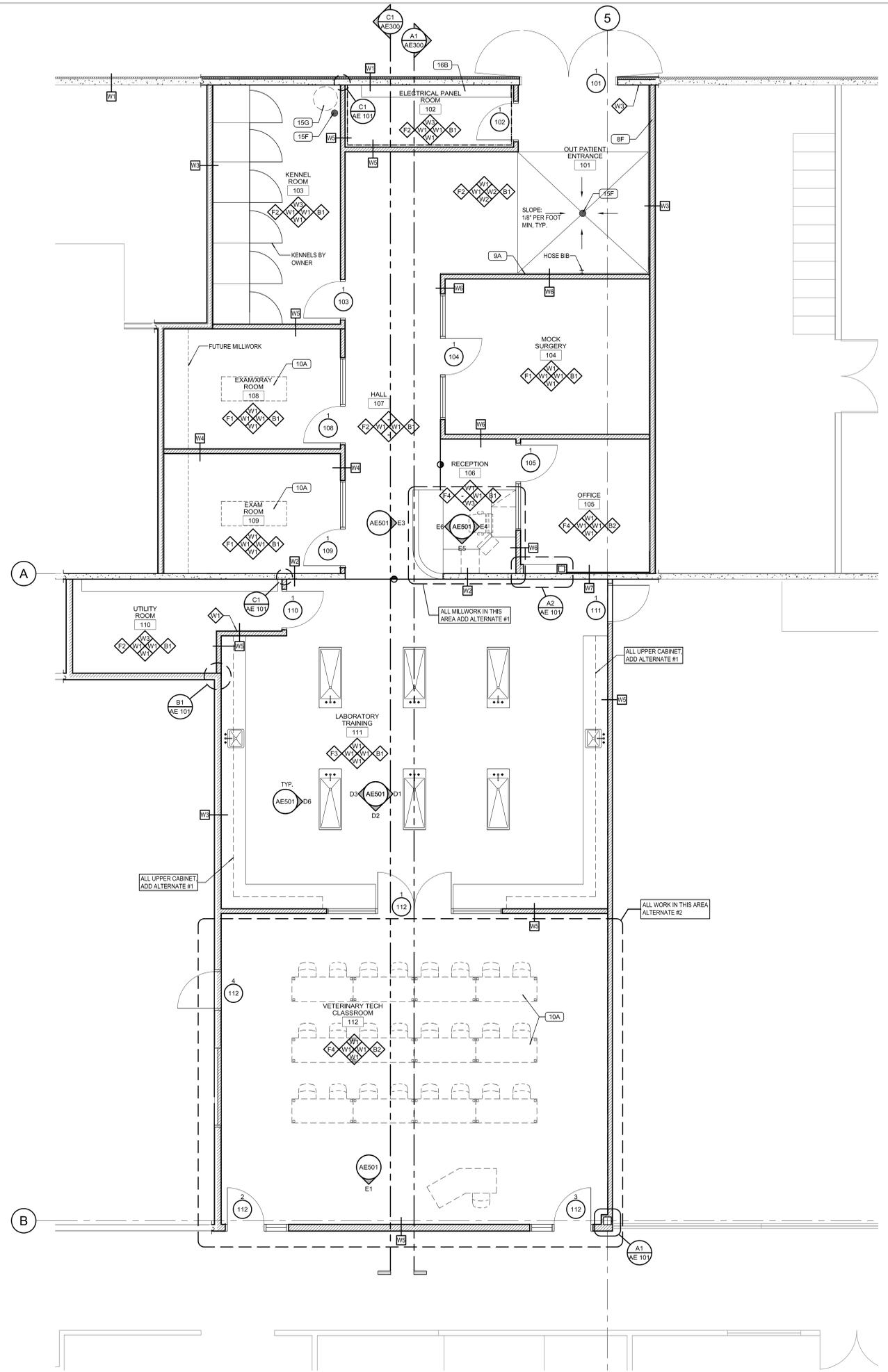


B1 PLAN DETAIL @ NEW ELEC. UTILITY
SCALE: 3" = 1'-0"



A1 PLAN DETAIL @ COLUMN HALL
SCALE: 3" = 1'-0"

A2 PLAN DETAIL @ EXISTING ELEC. PANEL
SCALE: 1" = 1'-0"



A3 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"

KEYED NOTES	
DIVISION 8 - DOORS & WINDOWS	
8F	REMOVE DOOR, PATCH/ REPAIR WALL
DIVISION 9 - FINISHES	
9A	FIBERGLASS REINFORCED PANELS
DIVISION 10 - SPECIALTIES	
10A	FURNISHING BY OWNER
DIVISION 15 - MECHANICAL	
15F	FLOOR DRAIN
15G	WATER HEATER
DIVISION 16 - ELECTRICAL	
16B	EXISTING ELECTRICAL PANELS TO REMAIN

VCBO ARCHITECTURE
VALENTINER
CRANE
BRUNES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UTAH 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

**BRIDGERLAND APPLIED TECHICAL COLLEGE
VETERINARY TECHNICIAN CLASSROOM AND LABORATORY**
1400 North 1000 West, Logan, Utah

CONSTRUCTION DOCUMENTS

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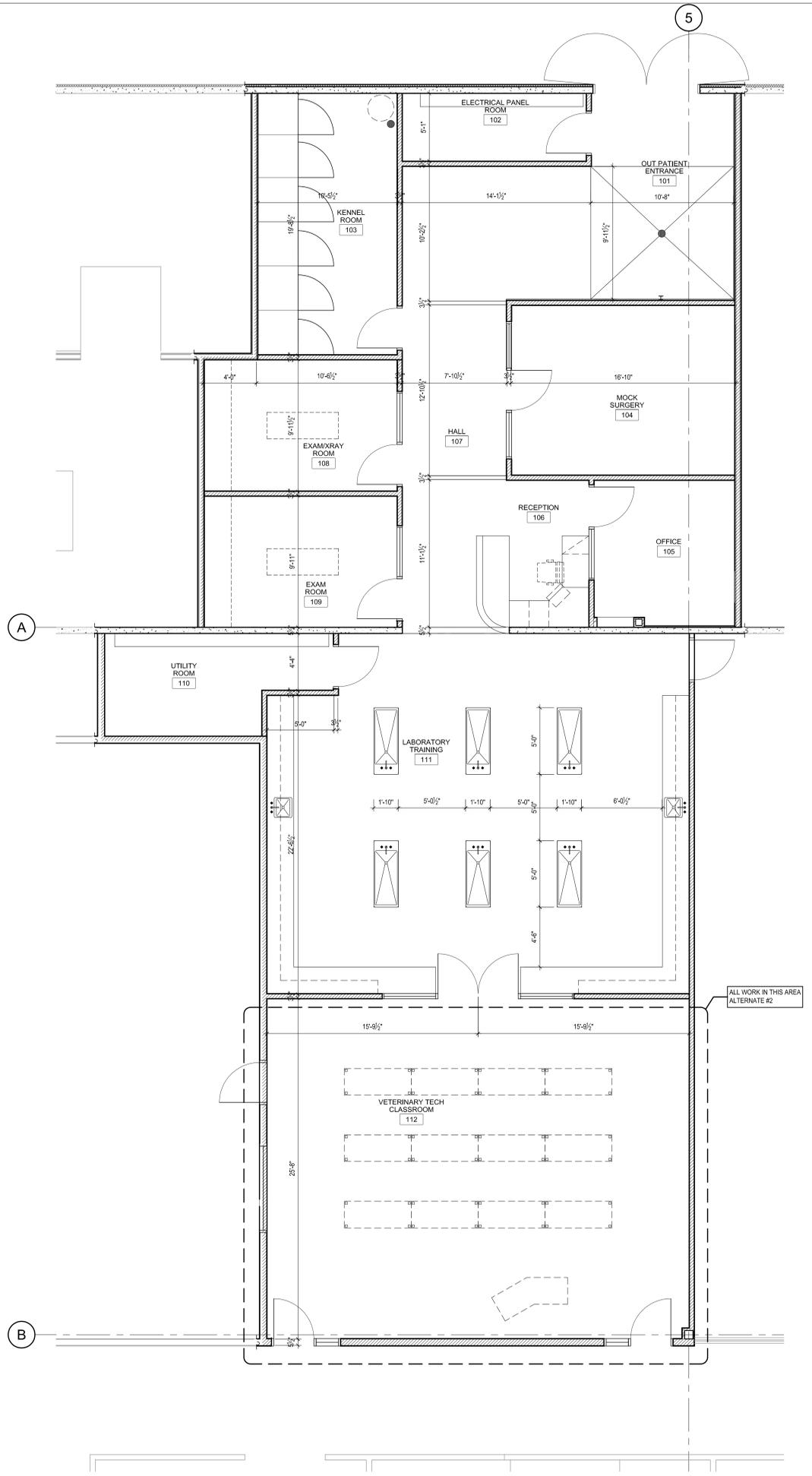
Job #	06650
CAD File	ae101.dwg
Drawn	Checked
Date	07.18.07
Owner #	



ARCHITECTURE
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BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UTAH 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

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CONSTRUCTION DOCUMENTS



ALL WORK IN THIS AREA
ALTERNATE #2

A3 DIMENSION PLAN
SCALE: 1/4" = 1'-0"

Rev #	Date	Description

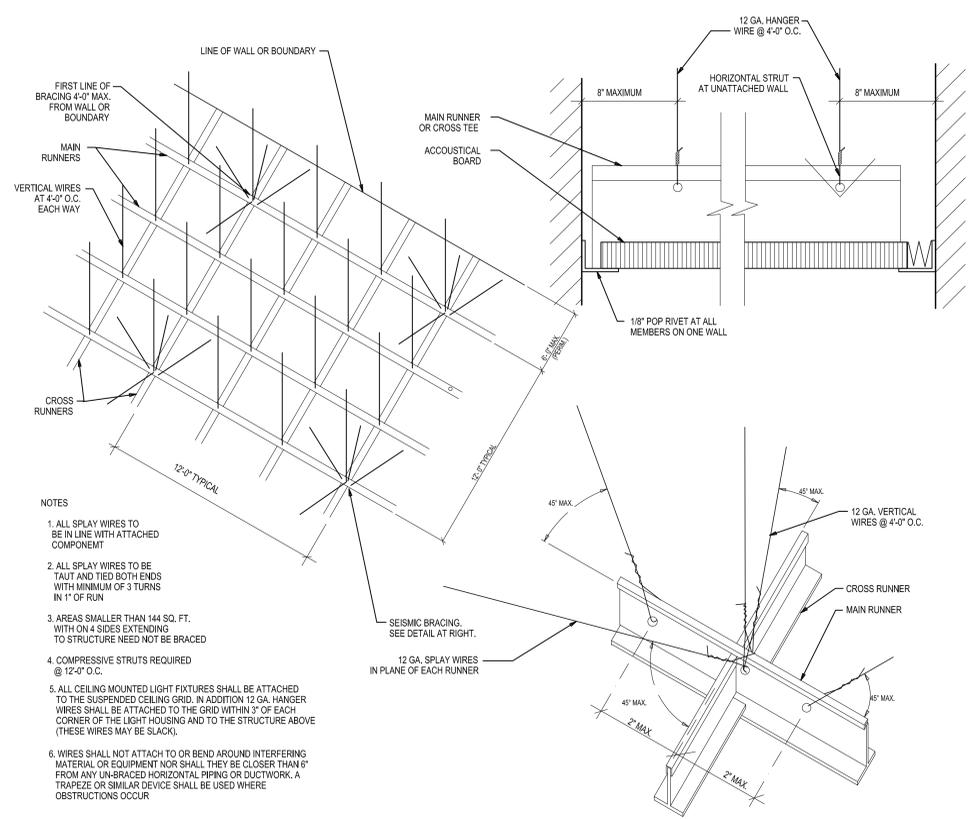
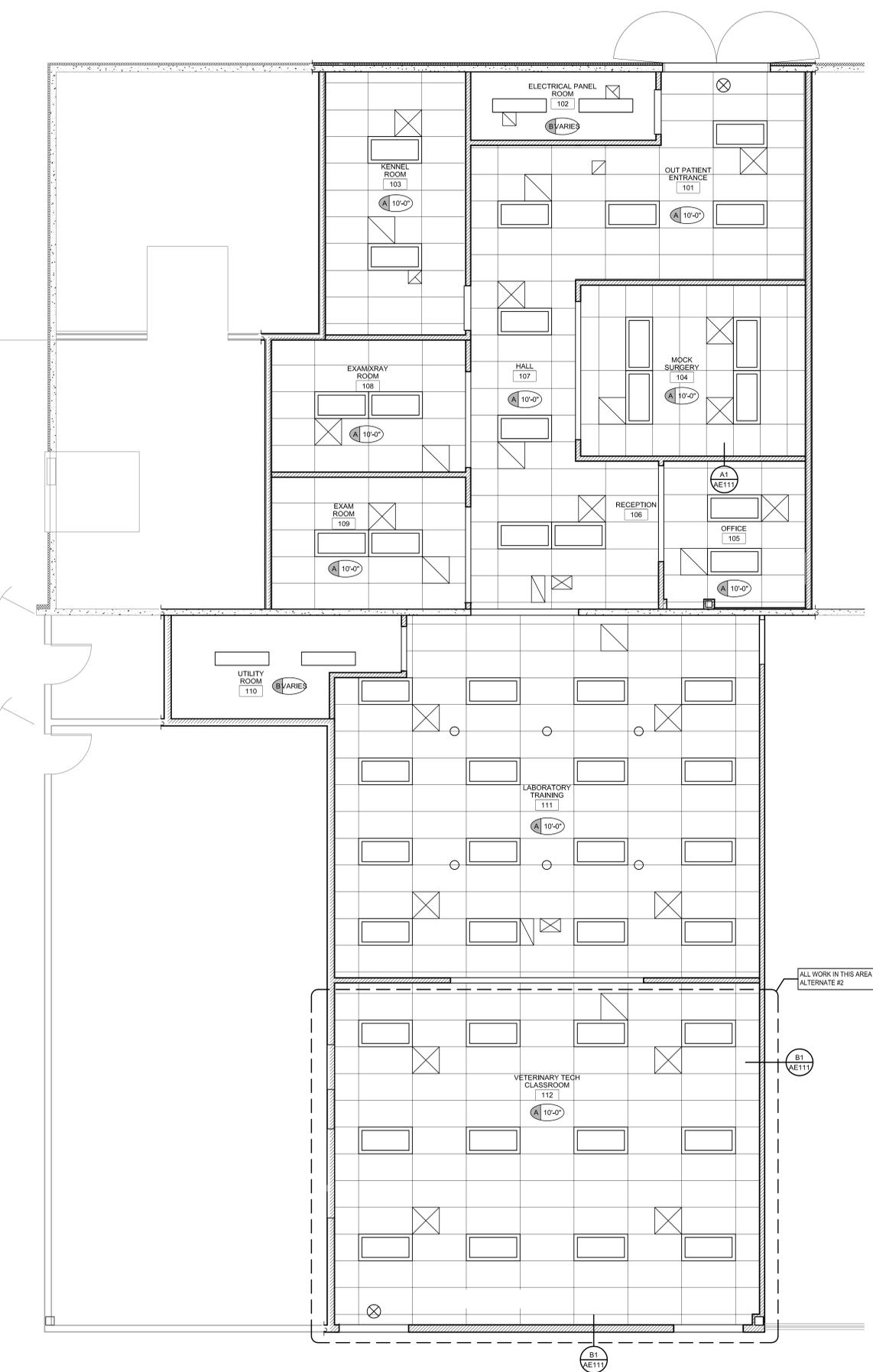
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CAD File ae 101a.rvt
Drawn Checked
Date 07.18.07
Owner #
Iss. #

ENLARGED DIMENSION PLAN

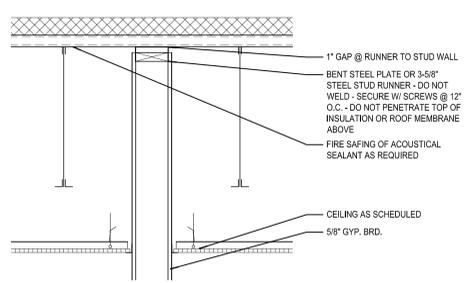
AE 101A

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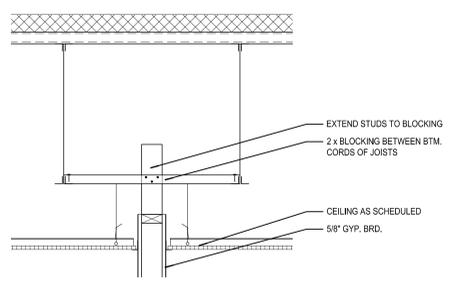
CEILING LEGEND	
	CEILING TYPE
	CEILING HEIGHT
A	SUSPENDED 2'x4' ACOUSTICAL LAY-IN TILE CEILING.
B	EXPOSED STRUCTURE PAINTED PF.
LIGHT AND HVAC SYMBOLS	
	SUPPLY GRILLE
	RETURN GRILLE
	ACCESS DOOR
	FAN GRILLE
	LIGHT FIXTURE
	RECESSED OR PENDANT HUNG CAN FIXTURE
	J-BOX FOR FUTURE OWNER SUPPLIED EXAM LIGHT FIXTURE
	EXIT SIGN
GENERAL NOTES	
1) PAINT ALL EXPOSED DUCTS ACCENT COLOR	
2) REFER TO DETAIL C11AE111 FOR TYPICAL CEILING SUSPENSION AND SEISMIC BRACING.	
3) REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL MECHANICAL AND ELECTRICAL DEVICES. REFER TO MECHANICAL AND ELECTRICAL SHEETS FOR QUANTITY AND TYPE OF DEVICES ONLY.	
4) ELECTRICAL SUBCONTRACTOR TO COORDINATE WORK WITH SPRINKLER CONTRACTOR TO AVOID CONFLICTS IN THE FIELD.	



C1 CEILING SUSPENSION & SEISMIC BRACING
SCALE: 1" = 1'-0"



B1 SLIP JOINT @ T.O.W.
SCALE: 1" = 1'-0"



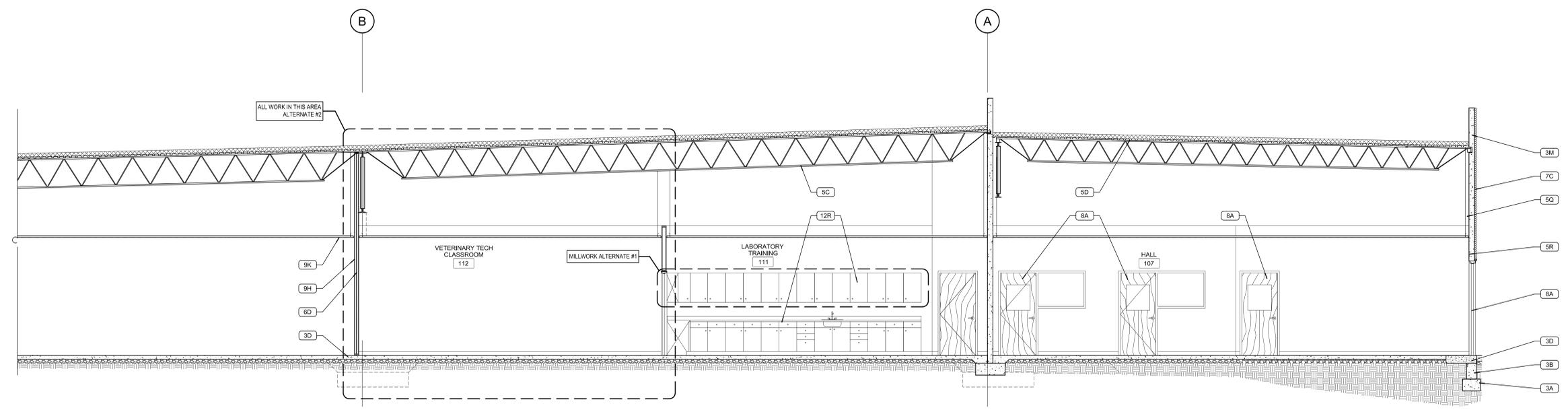
A1 SECTION DETAIL @ T.O.W.
SCALE: 1" = 1'-0"

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

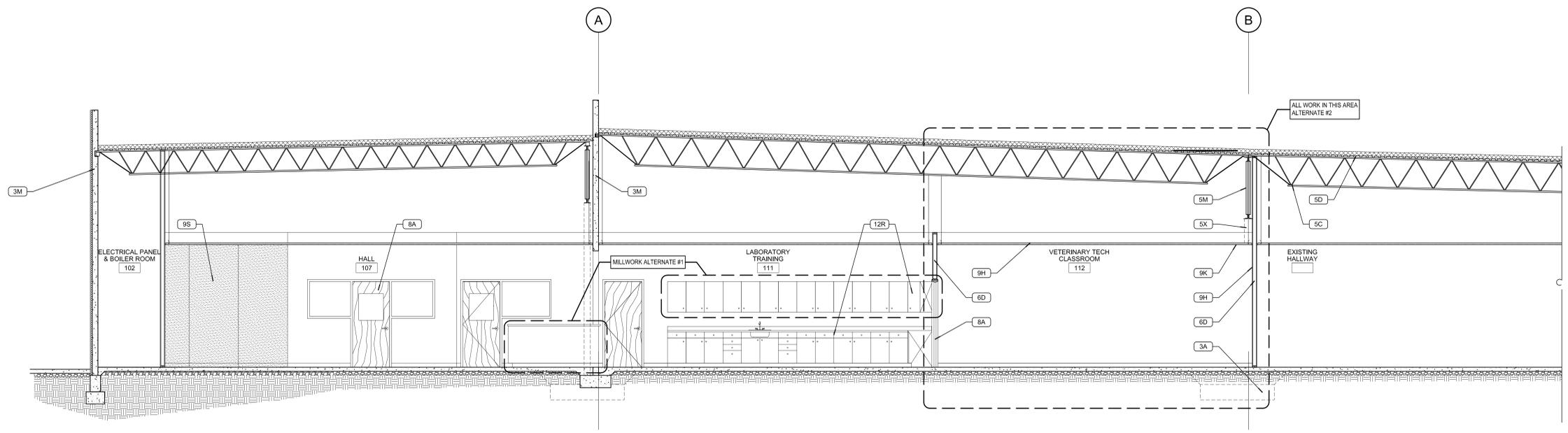
ALL WORK IN THIS AREA ALTERNATE #2

KEYED NOTES

DIVISION 3 - CONCRETE	DIVISION 7 - THERMAL & MOISTURE PROTECTION (CONT.)
3A REINFORCED CONCRETE FOOTING.	7C 2" E.I.F.S.
3B REINFORCED CONCRETE FOUNDATION WALL.	DIVISION 8 - DOORS & WINDOWS
3D CONCRETE SLAB	8A SCHEDULED DOOR & FRAME
3M EXISTING TILT-UP CONCRETE WALL	DIVISION 9 - FINISHES
DIVISION 5 - METALS	9H 5/8" GYP. BD., TYPE X WHERE REQUIRED
5C STEEL JOIST	9K SUSPENDED ACOUSTICAL TILE CEILING.
5D STEEL DECK	9S FIBERGLASS REINFORCED PANELS
5M STEEL GIRDER	DIVISION 12 - FURNISHINGS
5Q TS 8 x 8 x 14	12R SCHEDULED MILLWORK
5R TS 12 x 8 x 14	
5X EXISTING STEEL COLUMN	
DIVISION 6 - WOOD	
6D 2 x 4 WOOD STUD WALL	
DIVISION 7 - THERMAL & MOISTURE PROTECTION	



C1 BUILDING SECTION
SCALE: 1/4" = 1'-0"

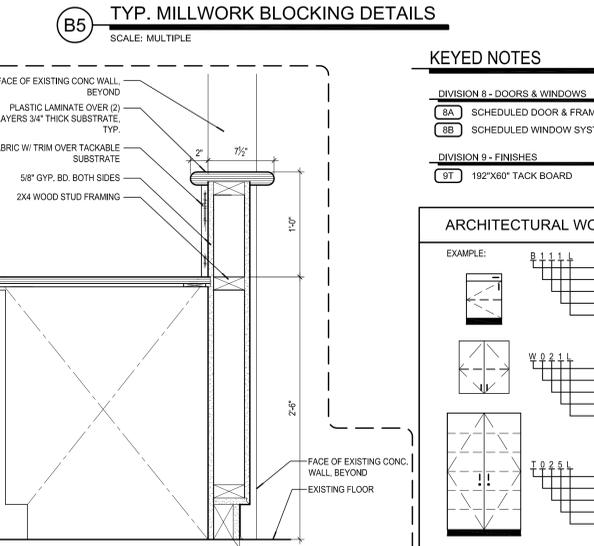
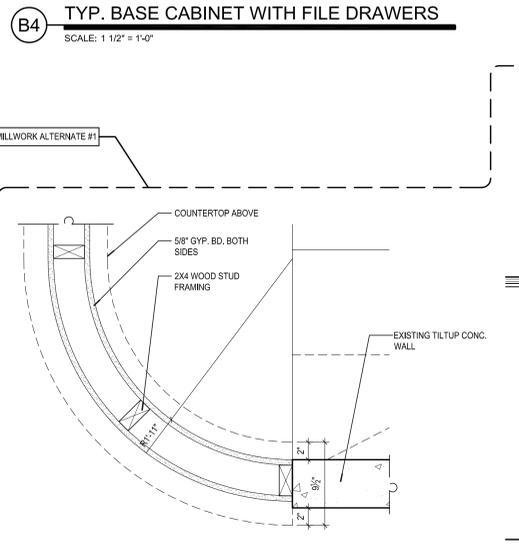
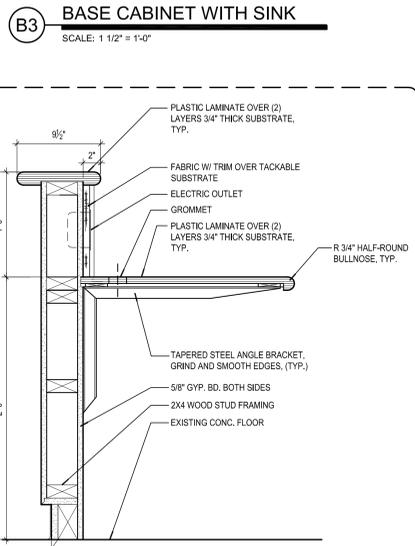
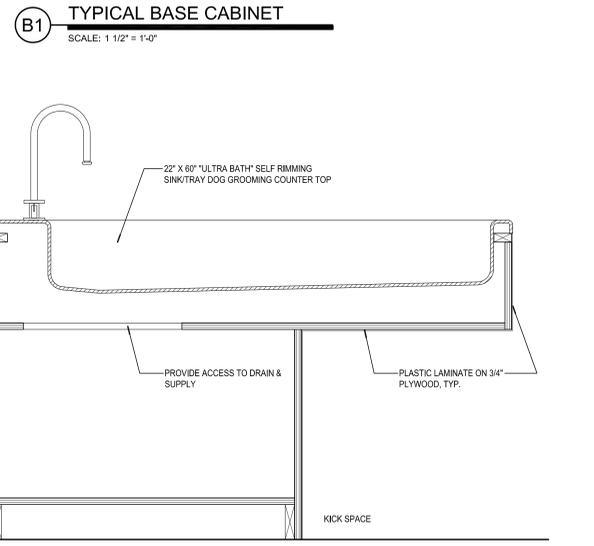
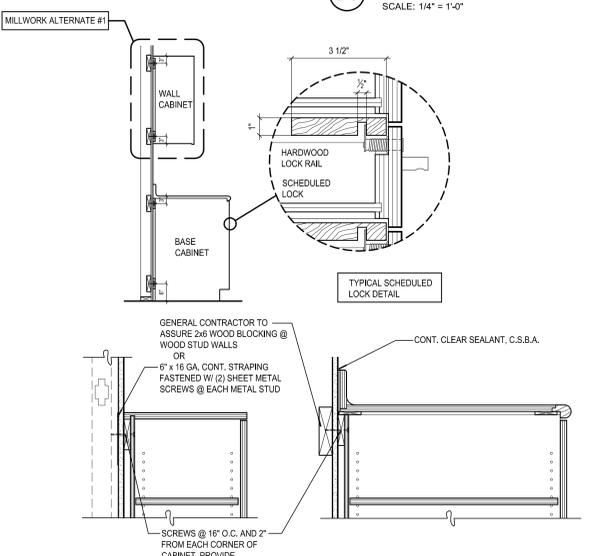
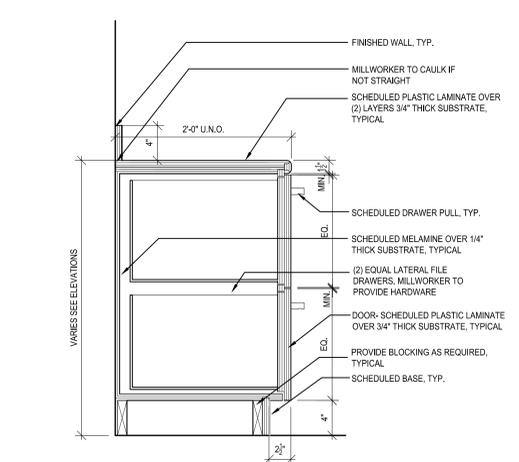
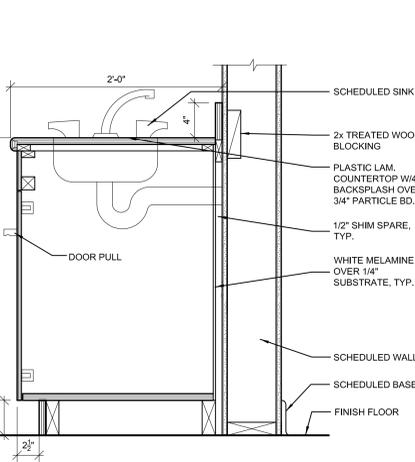
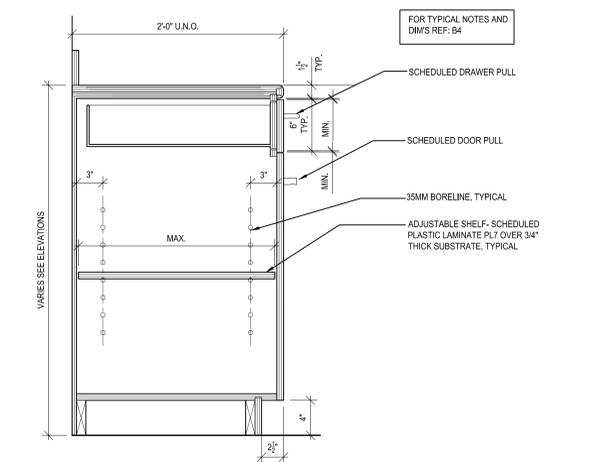
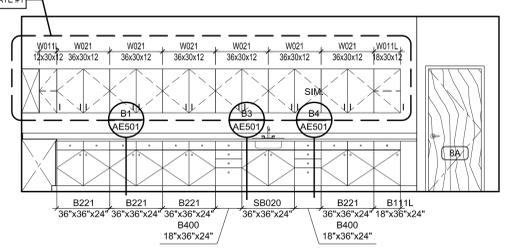
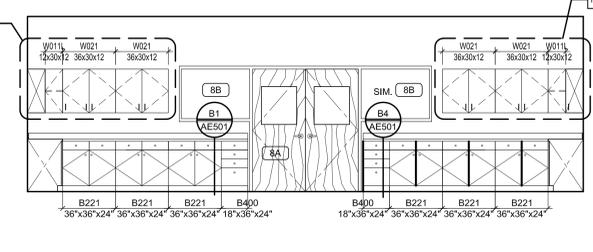
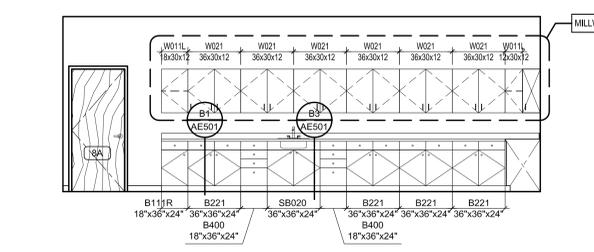
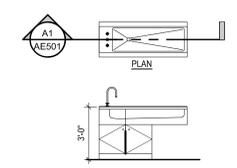
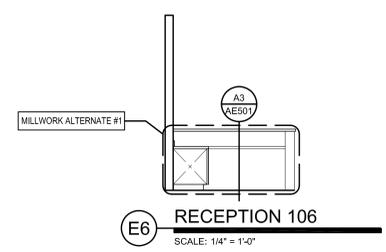
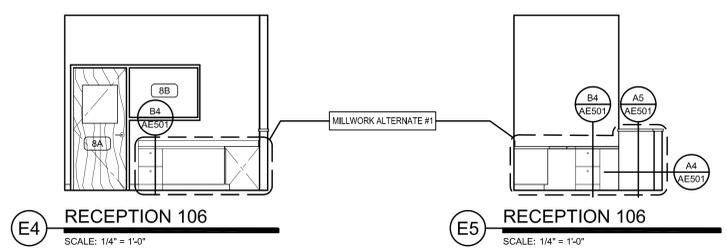
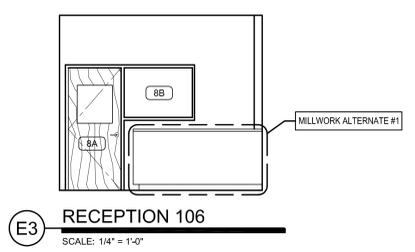
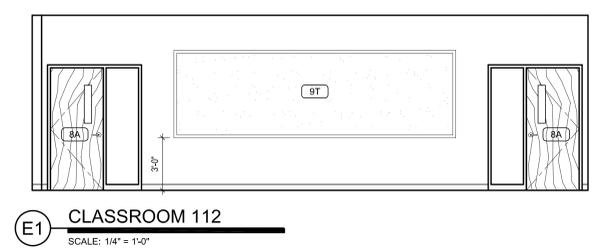


A1 BUILDING SECTION
SCALE: 1/4" = 1'-0"

Rev #	Date	Description

Job #	06650
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BUILDING SECTION



- KEYED NOTES**
- DIVISION 8 - DOORS & WINDOWS**
 - BA SCHEDULED DOOR & FRAME
 - BB SCHEDULED WINDOW SYSTEM
 - DIVISION 9 - FINISHES**
 - GT 192"X60" TACK BOARD

ARCHITECTURAL WOOD WORK KEY

EXAMPLE:

	BASE CABINET
	ONE DRAWER
	ONE DOOR
	ONE ADJUSTABLE SHELF
	LOCKABLE DOOR / DRAWER
	WALL CABINET
	ZERO DRAWERS
	TWO DOORS
	ONE ADJUSTABLE SHELF
	LOCKABLE DOOR / DRAWER
	TALL CABINET
	ZERO DRAWERS
	TWO DOORS
	FIVE ADJUSTABLE SHELVES
	LOCKABLE DOOR / DRAWER

CABINET MEASUREMENTS SHOWN ARE ACTUAL SIZES. BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK. CABINET DEPTHS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)

Rev #	Date	Description

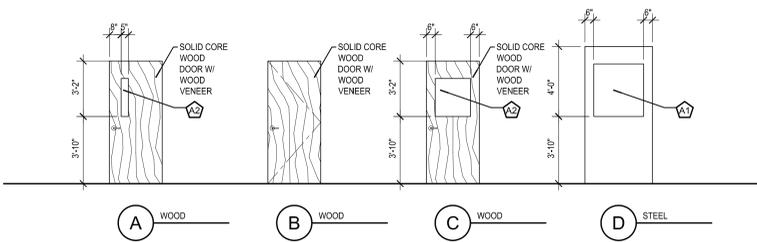
DOOR NUMBER	QTY	NEW/EX/REL	DOOR										FRAME					HARDWARE GROUP LABEL (HRS)	NOTES	DOOR NUMBER				
			SIZE			ELEV. TYPE	MATERIAL	FACING/FINISH	GLASS TYPE	NEW/EX/REL	ELEV. TYPE	MATERIAL	FACING/FINISH	GLASS TYPE	DETAIL									
			WIDTH	HEIGHT	THICK										HEAD	JAMB	JAMB				THRESHOLD			
101-1	PR	N	3'-10"	7'-10"	1 3/4"	D	STL	FAF	A1	N	3	AL	FAF	A1	D1/D101	D1/D101	D1/D101	B4/AE601	05	-	-	-	-	101-1
102-1	PR	N	3'-0"	7'-0"	1 3/4"	B	WD	FAF	-	N	1	HM	PT	-	B1/AE601	B1/AE601	B1/AE601	B1/AE601	-	03	1 HR	-	-	102-1
103-1	S	N	3'-0"	7'-0"	1 3/4"	C	WD	FAF	A2	N	1	HM	PT	-	B1/AE601	B1/AE601	B1/AE601	B1/AE601	-	06	-	-	-	103-1
104-1	S	N	3'-0"	7'-0"	1 3/4"	C	WD	FAF	A2	N	5	HM	PT	A2	B1/AE601	B1/AE601	B1/AE601	B1/AE601	-	04	-	-	-	104-1
105-1	S	N	3'-0"	7'-0"	1 3/4"	C	WD	FAF	A2	N	4	HM	PT	A2	B1/AE601	B1/AE601	B1/AE601	B1/AE601	-	04	-	-	-	105-1
108-1	S	N	3'-0"	7'-0"	1 3/4"	C	WD	FAF	A2	N	4	HM	PT	A2	B1/AE601	B1/AE601	B1/AE601	B1/AE601	-	04	-	-	-	108-1
109-1	S	N	3'-0"	7'-0"	1 3/4"	C	WD	FAF	A2	N	4	HM	PT	A2	B1/AE601	B1/AE601	B1/AE601	B1/AE601	-	04	-	-	-	109-1
110-1	S	N	3'-0"	7'-0"	1 3/4"	B	WD	FAF	-	N	1	HM	PT	-	B1/AE601	B1/AE601	B1/AE601	B1/AE601	-	03	-	-	-	110-1
111-1	S	N	3'-0"	7'-0"	1 3/4"	B	WD	FAF	-	N	1	HM	PT	-	B1/AE601	B1/AE601	B1/AE601	B1/AE601	-	03	-	-	-	111-1
112-1	PR	N	3'-0"	7'-0"	1 3/4"	C	WD	FAF	A2	N	6	HM	PT	A2	B1/AE601	B1/AE601	B1/AE601	B1/AE601	-	02	-	-	-	112-1
112-2	S	N	3'-0"	7'-0"	1 3/4"	A	WD	FAF	A2	N	2	HM	PT	A2	B1/AE601	B1/AE601	B1/AE601	B1/AE601	-	01	-	-	-	112-2
112-3	S	N	3'-0"	7'-0"	1 3/4"	A	WD	FAF	A2	N	2	HM	PT	A2	B1/AE601	B1/AE601	B1/AE601	B1/AE601	-	01	-	-	-	112-3
112-4	S	N	3'-0"	7'-0"	1 3/4"	B	WD	FAF	-	N	1	HM	PT	-	B1/AE601	B1/AE601	B1/AE601	B1/AE601	-	03	-	-	-	112-4

- S SINGLE
- PR PAIR
- PT PAINTED
- FAF FACTORY APPLIED FINISH
- HM HOLLOW METAL
- STL STEEL
- WD WOOD
- MFR MANUFACTURER
- SIM SIMILAR
- HR HOUR
- SM SMOKE
- FV FIELD VERIFY DIMENSIONS

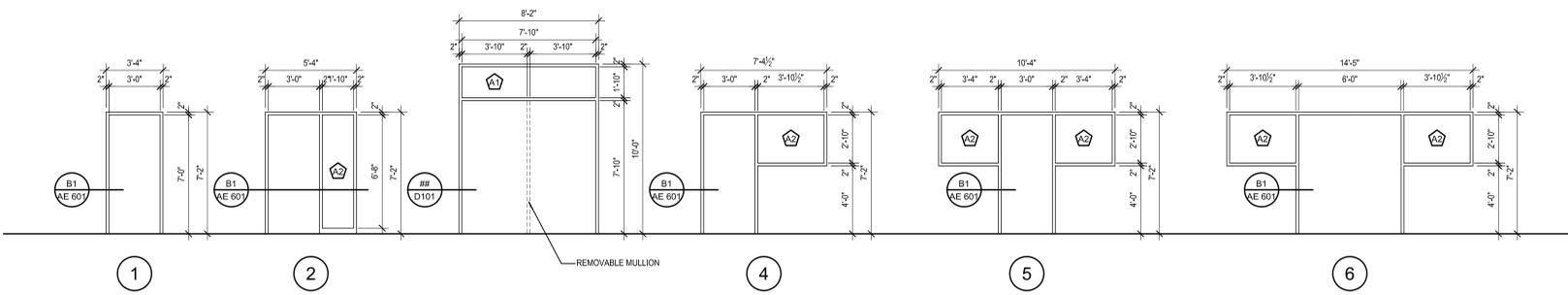
DOOR & WINDOW NOTES

- ALL DOOR AND WINDOW FRAMES ARE TO BE 2" WIDE UNLESS OTHERWISE NOTED.
- ALL DOORS ARE 1 3/4" THICK. SEE FRAME TYPE FOR WIDTH & HEIGHT.
- PROVIDE THRESHOLD @ ALL EXTERIOR DOORS. SEE DETAILS B4/AE601.
- ALL DOORS WITH A WIDTH GREATER THAN 3'-0" REQUIRE FOUR HINGES TYP.
- ALL HOLLOW METAL DOORS AND FRAMES TO BE PRIMED AND PAINTED PER THE SPECIFICATIONS - EXTERIOR DOORS TO BE GALVANEALD AND INSULATED TYP. - EXTERIOR FRAMES TO BE GALVANEALD, TYP.
- GENERAL CONTRACTOR TO ENSURE PROTECTION OF DOORS AND FRAMES PRIOR TO AND DURING INSTALLATION. RUSTED DOORS TO BE BEAD BLASTED TO REMOVE RUST PRIOR TO PAINTING. ANY FRAMES W/ EXCESSIVE RUST TO BE REPLACED @ CONTRACTORS EXPENSE.
- SEE DETAIL B5/AE601 FOR TYPICAL HOLLOW METAL MOUNTING DETAILS.
- ALL DIMENSIONS OF DOORS AND WINDOWS TO BE FIELD VERIFIED PRIOR TO FABRICATION TO ENSURE THE ACCURACY OF OPENING SIZE.
- THE INTENT OF THE DOOR & WINDOW SHEETS IS TO SHOW DIMENSIONS OF THE MATERIALS. CONTRACTOR TO VERIFY W/ PLAN, ELEVATIONS AND FIELD VERIFY.

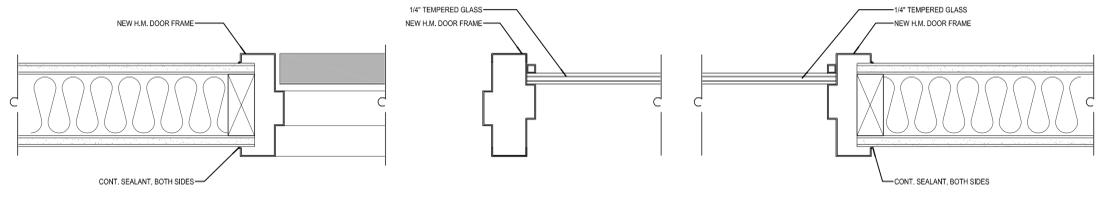
GLAZING TYPES	
	1" INSULATED GLASS, LOW E, TEMPERED
	1/4" GLASS, TEMPERED



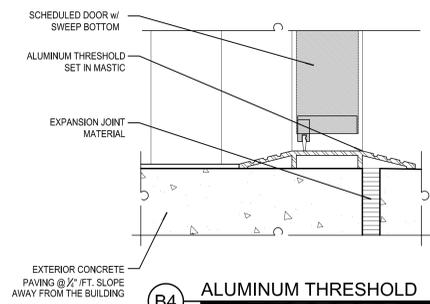
E1 DOOR TYPES
SCALE: 1/4" = 1'-0"



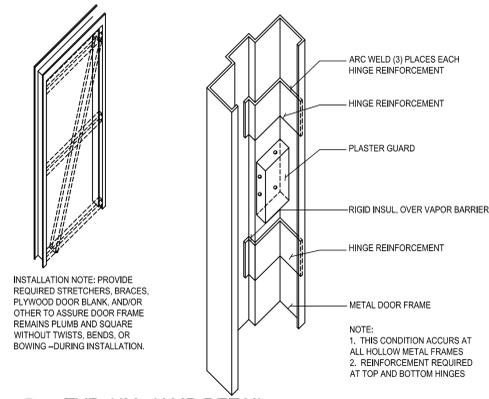
D1 HOLLOW METAL DOOR FRAMES
SCALE: 1/4" = 1'-0"



B1 TYPICAL H.M. JAMB @ WOOD STUD WALL (HEAD SIM.)
SCALE: 3" = 1'-0"



B4 ALUMINUM THRESHOLD
SCALE: 3" = 1'-0"



B5 TYP. HM. JAMB DETAIL
SCALE: 1 1/2" = 1'-0"

Rev #	Date	Description

Job #	06650
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DOOR SCHEDULE & FRAME TYPES



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VALENTINER
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VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UTAH 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

BRIDGERLAND APPLIED TECHNICAL COLLEGE
VETERINARY TECHNICIAN CLASSROOM AND LABORATORY
1400 North 1000 West, Logan, Utah
CONSTRUCTION DOCUMENTS

MECHANICAL LEGEND					
SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION
GENERAL TERMINOLOGY			AIR SIDE		
		SECTION LETTER DESIGNATION			EXISTING AIR DUCT TO BE REMOVED
		SECTION DRAWN ON THIS SHEET			EXISTING AIR DUCT TO REMAIN
		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION			NEW AIR DUCT
		MECHANICAL EQUIPMENT DESIGNATION			RECT. TO RECT. AIR DUCT TAKE-OFF
		EQUIPMENT ITEM DESIGNATION			RECT. TO RND. AIR DUCT TAKE-OFF
		REGISTER, GRILL OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW			RND. TO RND. AIR DUCT TAKE-OFF
		GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRE			RECT. TAKE-OFF AT END OF MAIN
		REVISION DESIGNATOR AND NUMBER			BURIED OR UNDER FLOOR DUCT
		KEY NOTE DESIGNATOR AND NUMBER			FLEXIBLE AIR DUCT
	POC	POINT OF CONNECTION			LINED DUCT
	POR	POINT OF REMOVAL			VANED ELBOW
	AFF	ABOVE FINISHED FLOOR			RADIUS ELBOW
	AP	ACCESS PANEL			CONCENTRIC DUCT TRANSITION
	CL	CENTER LINE ELEVATION			ECCENTRIC DUCT TRANSITION
	INV. ELEV.	INVERT ELEVATION			FLEXIBLE CONNECTION
	GC	GENERAL CONTRACTOR			ANCHOR POINT
	MC	MECHANICAL CONTRACTOR			CONDENSATE DRAIN
	CC	CONTROL CONTRACTOR			NATURAL GAS PIPING
	EC	ELECTRICAL CONTRACTOR			CHEMICAL FEED LINE
	FPC	FIRE PROTECTION CONTROL			MAKE-UP WATER LINE
	NIC	NOT IN CONTRACT			CULINARY COLD WATER
	NTS	NOT TO SCALE			CULINARY HOT WATER
	C	COMMON			RECIRCULATED CULINARY HOT WATER
	NC	NORMALLY CLOSED			EQUIPMENT DRAIN
	NO	NORMALLY OPEN			
					FLEXIBLE DUCT CONNECTION
					LOWER DUCT DOWN
					FLEXIBLE DUCT CONNECTION
					PARALLEL BLADE DAMPER
					OPPOSED BLADE DAMPER
					HUMIDIFIER
					AIRFLOW MEASURING STATION
					FILTER BANK
					COIL
					ACCESS PANEL
					EXISTING EQUIPMENT TO BE REMOVED
					EXISTING EQUIPMENT TO REMAIN
					NEW EQUIPMENT
					WALL MOUNTED THERMOSTAT
					WALL MOUNTED FIRESTAT
					SUPPLY AIR
					RETURN AIR
					EXHAUST AIR
					OUTSIDE AIR
					MIXED AIR
					FRESH AIR
					RELIEF AIR

- GENERAL NOTES:**
- G-1** MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.
- A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.
- B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.
- C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.
- D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.
- E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.
- G-2** ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN MUST BE APPROVED BY THE ARCHITECT/ENGINEER. APPROVAL SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
- G-3** CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.
- G-4** THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.
- G-5** THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.
- G-6** SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.
- G-7** PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.
- G-8** SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.
- G-9** PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.
- G-10** THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.
- G-11** THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
- G-12** C.F.M. LISTED IS ACTUAL AIR.
- G-13** SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.
- G-14** CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.
- G-15** ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

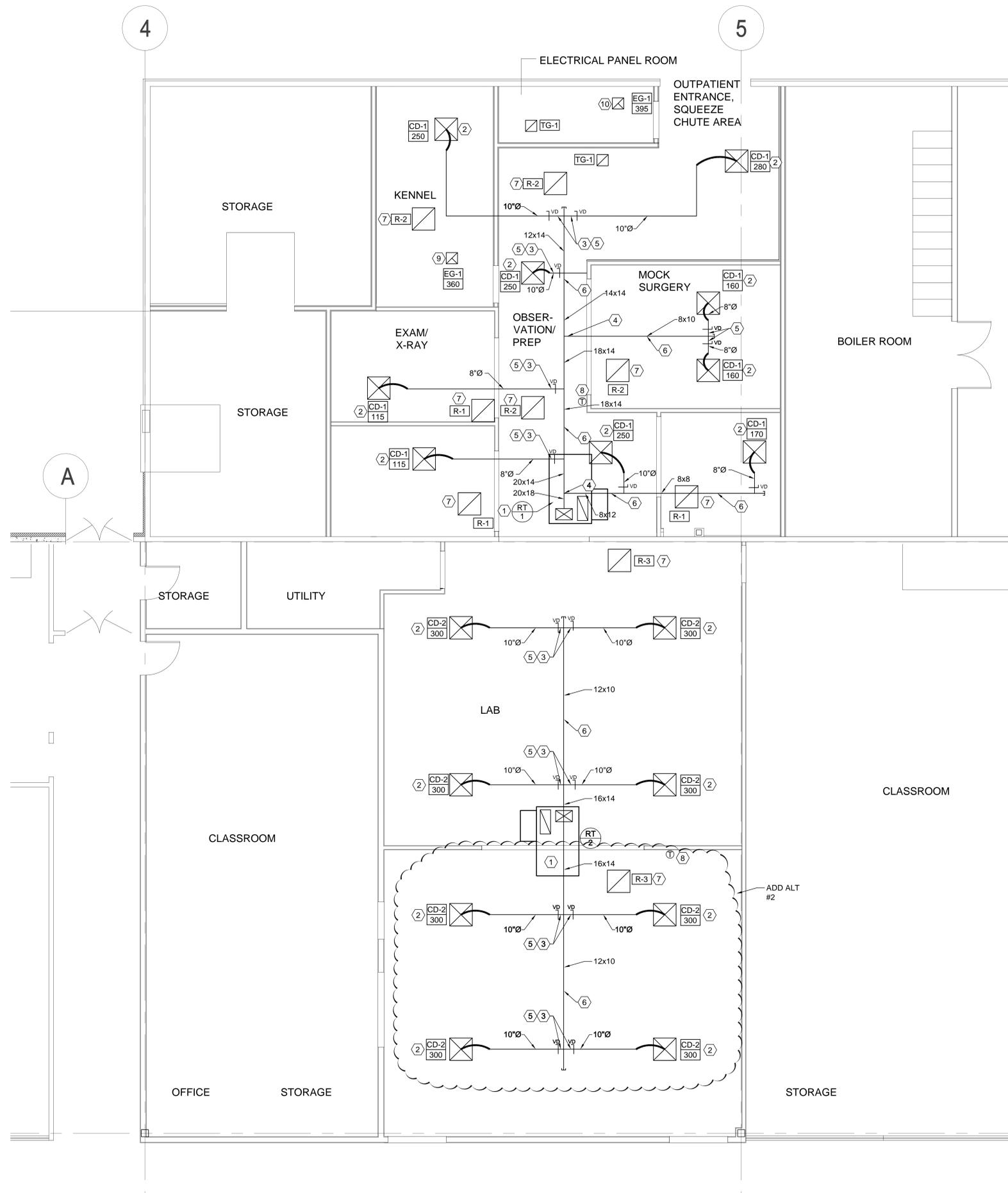
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Job #	06650
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MECHANICAL GENERAL NOTES AND LEGEND

MG001

Sheet of Sheets



- SHEET NOTES:**
- ① PROVIDE NEW ROOF TOPS RT-1 AND RT-2 ON NEW ROOF CURB. REMOVE ROCK BALLAST BEFORE SETTING CURB. SEE DETAIL A1/ME501.
 - ② SEE DIFFUSER DETAIL B1/ME501.
 - ③ SEE SQUARE OR RECTANGULAR TO ROUND TAKE-OFF DETAIL D5/ME501. (TYPICAL).
 - ④ SEE REC. TO REC. DUCT DETAIL B5/ME501. (TYPICAL)
 - ⑤ PROVIDE VOLUME DAMPERS AT ALL BRANCH TAKE-OFFS.
 - ⑥ LINE ALL SUPPLY AIR DUCTWORK.
 - ⑦ PROVIDE RETURN AIR BOOTS. SEE DETAIL C3/ME501.
 - ⑧ PROVIDE WALL MOUNTED PROGRAMMABLE THERMOSTATS.
 - ⑨ ROUTE 10" DUCT TO ROOF MOUNTED EXHAUST FAN EF-1
 - ⑩ ROUTE 10" DUCT TO ROOF MOUNTED EXHAUST FAN EF-2.



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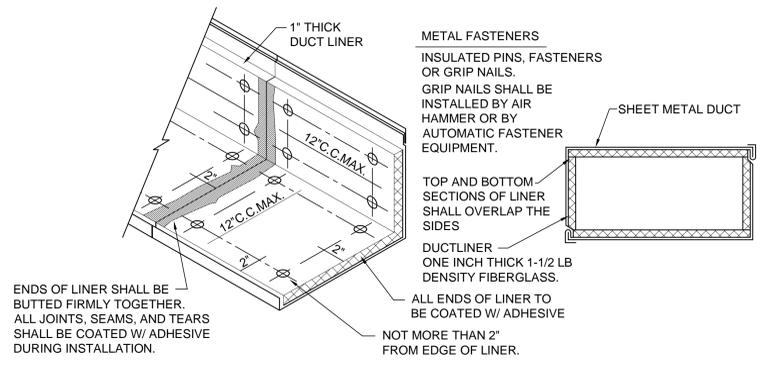
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 CONSTRUCTION DOCUMENTS

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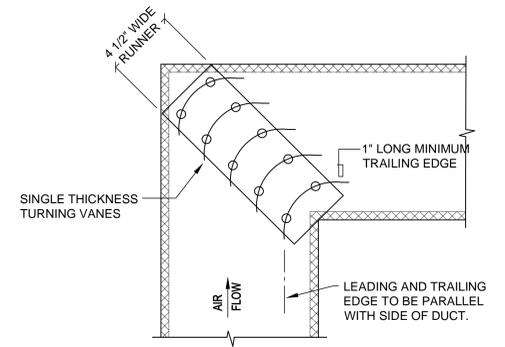
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MECHANICAL PLAN

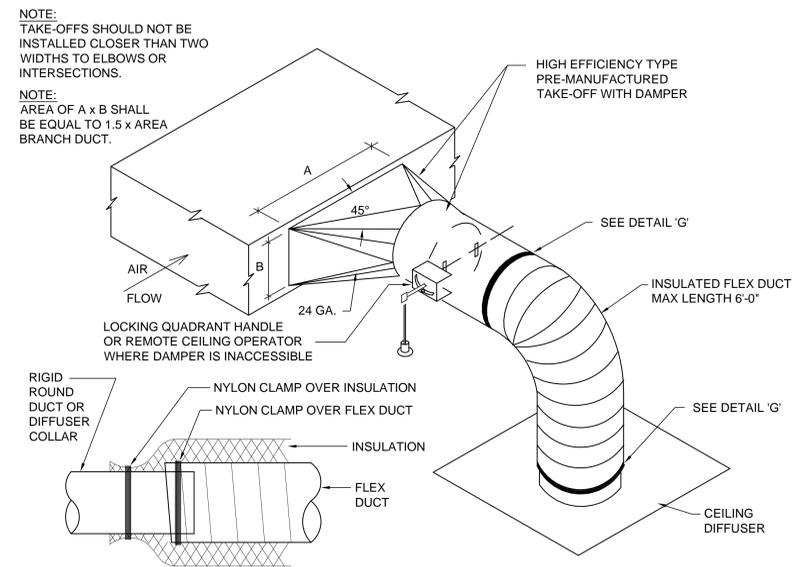
A3 MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



D1 DUCT LINER DETAIL
SCALE: NONE

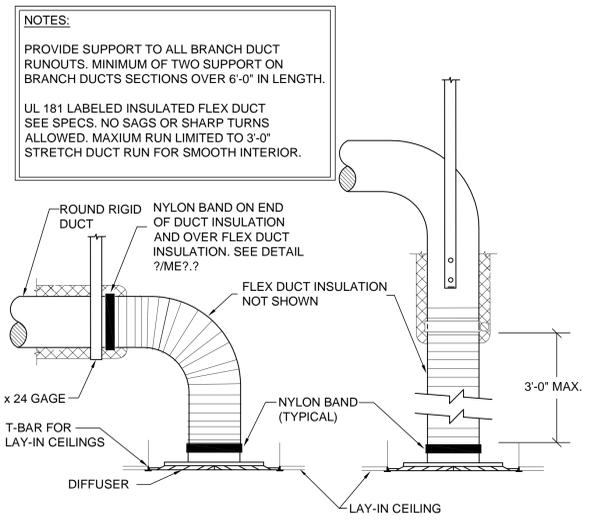


D3 SINGLE THICKNESS TURNING VANE DETAIL
SCALE: NONE

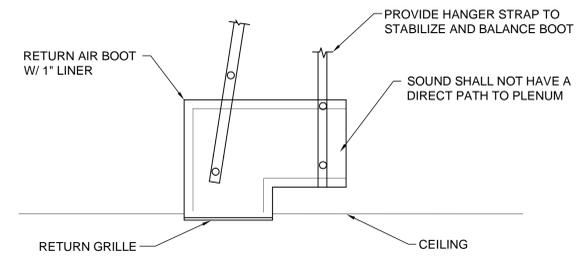


G DETAIL
SCALE: NONE

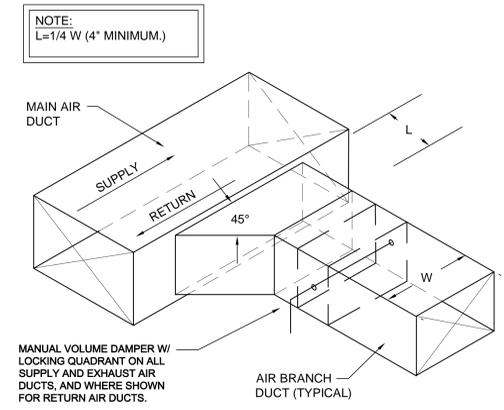
**D5 SQUARE OR RECTANGULAR
-TO-ROUND TAKE-OFF DETAIL**
SCALE: NONE



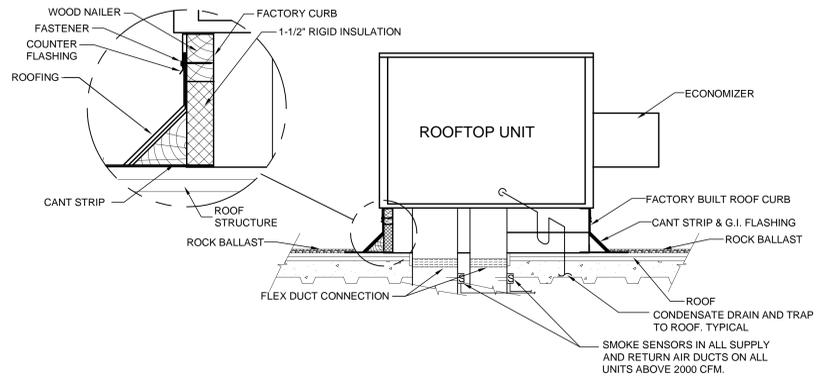
B1 TYPICAL DIFFUSER CONNECTION DETAIL
SCALE: NONE



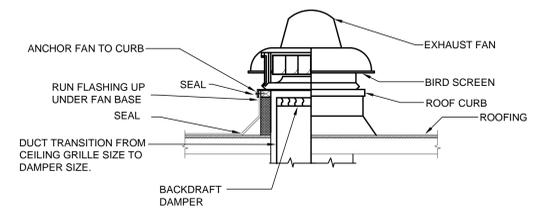
C3 RETURN AIR BOOT DETAIL
SCALE: NONE



**B5 BRANCH DUCT TAKE-OFF
& DAMPER DETAIL**
SCALE: NONE



A1 ROOFTOP UNIT DETAIL
SCALE: NONE



A3 ROOF MOUNTED EXHAUST FAN DETAIL
SCALE: NONE



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VALENTINER
CRANE
BRUNJES
ONYON

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524 SOUTH 600 EAST
SALT LAKE CITY, UTAH 84102
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Fax: (801) 531-9850
WWW: www.vcbo.com

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ROOFTOP AIR CONDITIONER SCHEDULE (GAS HEAT)

SYMBOL	MANUFACTURER & MODEL NUMBER	SA CFM	OSA CFM	E.S.P. IN W.G.	HEATING	COOLING			ELECTRICAL					EER/ SEER	OPER. WT. (LBS)	SCHEDULE NOTES	
					TOT. MIN. INPUT MBH	AMB. AIR (DB)	AMB. AIR (WB)	MIN. TOTAL MBH	V - Ø - Hz	COMPRESSOR #	COMPRESSOR TOTAL RLA	COMPRESSOR TOTAL LRA	MCA				MOC
RT 1	CARRIER HJ48006	1995	400	.6	150	95	67	64	208/3/60	1	17.3	123	34.9	40	11*	750	1,2,3,4,5,7
RT 2	CARRIER HJ007	2400	600	.6	150	95	67	79	208/3/60	1	20.5	156	38.8	45	11*	850	1,2,3,4,5,6,7

1. ESP DOES NOT INCLUDE LOSSES THROUGH ACCESSORIES.
2. RATED MINIMUM INPUT AT SEA LEVEL.
3. BELT DRIVE UNIT, WITH ECONOMIZER.
4. PROVIDE WITH FACTORY INSTALLED FIELD WIRED 120v CONVENIENCE OUTLET.
5. 2 STAGE GAS HEATING.
6. COORDINATE WITH DIVISION 16 TO PROVIDE DUCT SMOKE DETECTORS IN SUPPLY AND RETURN.
7. PROVIDE WITH FACTORY INSTALLED DISCONNECT.

EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER & MODEL No.	SERVES	C.F.M.	STATIC PRESSURE IN. WG.	MAX NOISE SONES	MOTOR			OPER. WT. (LBS)	SCHEDULE NOTES	CONTROL
						V - Ø - Hz	HP	RPM			
EF 1	COOK 80 ACEB	KENNEL	360	.25	5.7	115-1-60	0.167	1000	31	1, 2	WALL SWITCH BY DIV 16
EF 2	COOK 80 ACEB	ELECTRICAL ROOM	360	.25	5.7	115-1-60	0.167	1000	31	1, 2	RUN 24/7

1. PROVIDE WITH INTEGRAL CEILING GRILLE.
2. ROOF MOUNTED, DOWN BLAST DOME FAN.

DIFFUSER SCHEDULE

SYMBOL	TYPE	MAX CFM	FACE SIZE	NCK SIZE	CEILING TYPE	BLOW	PATTERN	SCHEDULE NOTES
CD-1 CFM	CEILING	280	9x9	8"Ø	LAY-IN	4-WAY		1,2,3,4
CD-2 CFM	CEILING	400	12x12	10Ø	LAY-IN	4-WAY		1,2,3,4

1. PROVIDE LAY-IN CEILING AND BORDER / MODULE AS REQUIRED. SEE ARCHITECTURAL CEILING PLANS.
2. MAXIMUM NC 25 AT CFM LISTED.
3. PROVIDE TRANSITION TO DIFFUSER NECK SIZE AS REQUIRED TO DUCT WORK SHOWN ON PLAN.
4. DIFFUSER SHALL BE PRICE MODEL SMD OR EQUAL BY APPROVED MANUFACTURER IN SPECIFICATIONS.

REGISTER, LOUVER & GRILLE SCHEDULE

SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	THROAT SIZE	CEILING TYPE	SCHEDULE NOTES
R-1	CEILING	RETURN	180	8/8	8/8	LAY-IN	1,2,3,4
R-2	CEILING	RETURN	395	12/12	12/12	LAY-IN	1,2,3,4
R-3	CEILING	RETURN	1200	22/22	22/22	LAY-IN	1,2,3,4
TG-1	CEILING	RETURN	375	12/12	12/12	LAY-IN	1,2,3,4
EG-1 CFM	CEILING	RETURN	375	12/12	12/12	LAY-IN	1,2,3,4

REGISTER, LOUVER AND DIFFUSER SCHEDULE NOTES:
1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.
2. SHALL BE PRICE 535 OR EQUAL BY OTHER APPROVED MANUFACTURERS.
3. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
4. FINISH SHALL BE OFF-WHITE BAKED ENAMEL.

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MECHANICAL SCHEDULES

ME601

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VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UTAH 84102
Phone: (801) 575-8800
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CONSTRUCTION DOCUMENTS

PLUMBING LEGEND			
MEANING	SYMBOL OR ABBREVIATION	MEANING	SYMBOL OR ABBREVIATION
HOT WATER LINE	— — — — —	WALL CLEANOUT	WCO
COLD WATER LINE	— — — — —	CLEANOUT	CO
VENT LINE	—V— —V— —V—	CLEANOUT TO GRADE	COTG
WASTE LINE	— — — — —	FLOOR CLEANOUT	FCO
GAS LINE	— G —	BALL VALVE	
VENT THRU ROOF	VTR	UNION	
CONNECTION TO EXISTING PIPING			

SEE MECHANICAL LEGEND MG001

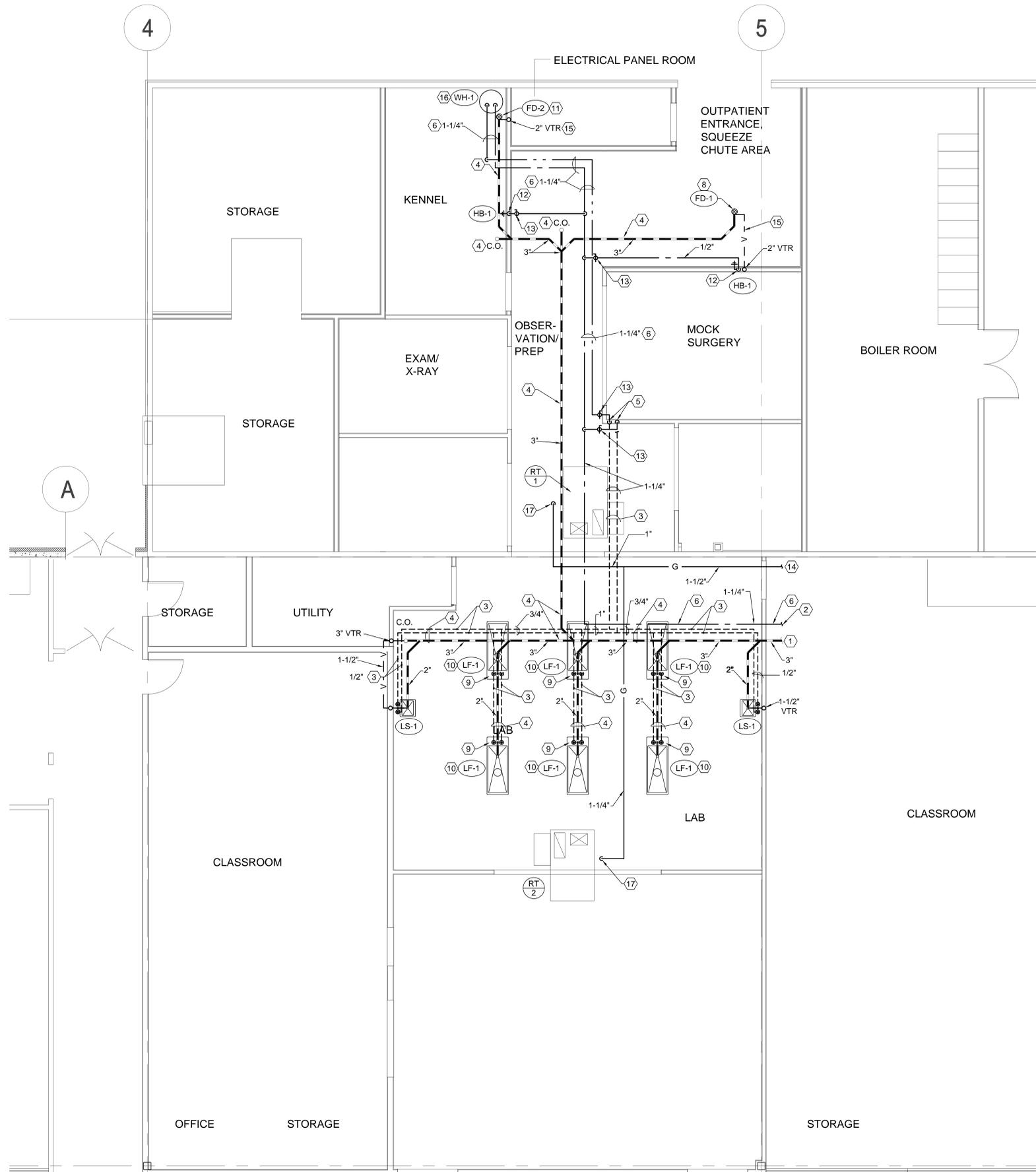
PLUMBING GENERAL NOTES:

- G-1 ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.
- G-2 ALL PIPING MATERIALS SHALL MEET ALL REQUIREMENTS OF IPC AND LOCAL AUTHORITY.
- G-3 GAS PIPING INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH GAS COMPANY REGULATIONS, NFPA CODE REQUIREMENTS, AND LOCAL AUTHORITY.
- G-4 ALL MATERIALS SHALL BE NEW AND SHALL BE DOMESTIC MADE UNLESS SPECIFICALLY APPROVED OTHERWISE IN WRITING BY ARCHITECT OR OWNER.
- G-5 PROVIDE VACUUM BREAKERS AND WHERE REQUIRED BY CODE OR WHERE THERE MAY BE ANY POSSIBLE CHANGE FOR CROSS CONTAMINATION. PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH UTAH CODE.
- G-6 ALL PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL DRAWING, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.
- G-7 THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWING, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL PIPING SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- G-8 COORDINATE ALL PIPING AND PLUMBING EQUIPMENT WITH ALL OTHER TRADES AND/OR CONTRACTORS PRIOR TO INSTALLATION.
- G-9 ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN MUST BE APPROVED BY THE ARCHITECT/ENGINEER. APPROVAL SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
- G-10 GAS LINE FITTINGS SHALL BE STANDARD WELD FITTINGS WITH TAPERED REDUCERS. DO NOT USE VALVES, UNIONS, OR AUTO CONTROLS IN GAS LINES ROUTED IN INACCESSIBLE CONCEALED SPACES.
- G-11 ALL WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF ANS/NSF STANDARD 61 LATEST EDITION, CONCERNING METAL CONTAMINANTS IN THE WATER SYSTEM.
- G-12 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.
- G-13 THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.
- G-14 SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.
- G-15 ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

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PLUMBING GENERAL NOTES AND LEGENDS



- SHEET NOTES:**
- 1 RECORD DRAWINGS INDICATE A 3" SANITARY SEWER LINE RUNNING NORTH AND SOUTH BETWEEN GRID LINES 5 & 6. FIELD VERIFY. MAKE NEW 3" CONNECTION INTO THIS EXISTING LINE WHERE GRADE WILL ALLOW THE 1/8 FOOT SLOPE FROM NEW SITE.
 - 2 RECORD DRAWING INDICATE A 2" CULINARY WATER LINE RUNNING NORTH AND SOUTH BETWEEN GRIDS 6 & 7. FIELD VERIFY. MAKE NEW CONNECTION INTO THIS EXISTING LINE BELOW GRID LINE A AND ELECTRICAL PANELS. ROUTE TO NEW SITE.
 - 3 ROUTE NEW HOT AND COLD WATER PIPING UNDER FLOOR ENCASED IN PVC SCH. 80 PIPING.
 - 4 SAW CUT EXISTING CONCRETE FLOOR FOR SEWER AND WATER ROUTING UNDER FLOOR. SEE ARCHITECTURAL DRAWINGS.
 - 5 DROP 1-1/4" CW AND 1-1/4" HW DOWN EXISTING WALL TO UNDER FLOOR.
 - 6 ROUTE WATER PIPING OVER HEAD.
 - 7 ELECTRIC HOT WATER HEATER. SEE DETAIL A5/PE501.
 - 8 FLOOR DRAIN WITH HINGED GRATE AND REMOVABLE SEDIMENT BUCKET. SEE ARCHITECTURAL FOR EXACT LOCATION OF DRAIN.
 - 9 PROVIDE HAIR INTERCEPTOR UNDER SINK.
 - 10 PROVIDE ISLAND VENTING PER SECTION 913 OF THE IPC-2006 CODE AT EACH ISLAND SINK. USE AIR ADMITTANCE VALVES IF APPROVED BY CODE AND DFCM.
 - 11 PROVIDE FUNNEL ON DRAIN FOR WATER HEATER RELIEF VALVE DISCHARGE.
 - 12 DROP 1/2" CW WATER PIPING DOWN WALL TO HOSE BIBB.
 - 13 PROVIDE BALL VALVE.
 - 14 PROVIDE NEW 1-1/2" GAS LINE FROM NEW ROOFTOPS TO EXISTING METER. TIE INTO EXISTING LINE AT METER. VERIFY THAT METER CAN HANDLE ADDITIONAL 300 CFH.
 - 15 ROUTE 2" VENT UNDER FLOOR TO NEW WALL. RISE UP IN WALL AND EXTEND VENT PIPING THROUGH ROOF.
 - 16 ELECTRIC WATER HEATER. SEE DETAIL A5/PE501.
 - 17 SEE DETAIL A3/PE501 FOR GAS CONNECTION TO RT-1 AND RT-2.



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PLUMBING PLAN

PE101

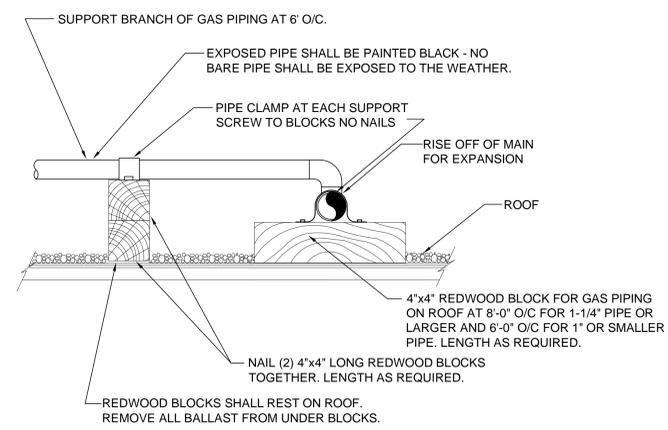
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A3 PLUMBING PLAN
SCALE: 1/4" = 1'-0"

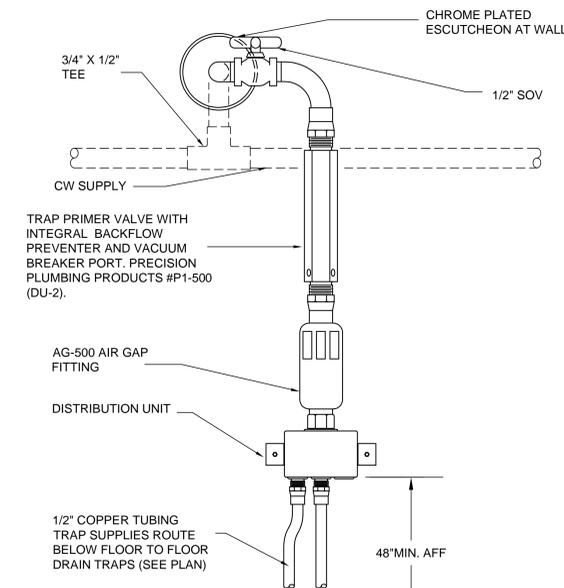
PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	INDIVIDUAL LINE SIZES					REMARKS
		TRAP	WASTE	VENT	COLD WATER	HOT WATER	
LF-1	LAB FAUCET	-	-	-	1/2"	1/2"	MOUNT ON EXISTING SINK.
HB-1	HOSE BIBB	-	-	-	1/2"	-	WALL MOUNTED/W VACUUM BREAKER & HOSE CONNECTION
FD-1	FLOOR DRAIN	3"	3"	2"	-	-	HEAVY DUTY WITH HINGED GRATE AND REMOVABLE SEDIMENT BUCKET
FD-2	FLOOR DRAIN	3"	3"	2"	-	-	
WH-1	WATER HEATER	-	-	-	1-1/4"	1-1/4"	A.O. SMITH MODEL DEL - 40 - 2 ELEMENTS, 40 GAL. STORAGE, 4000 WATTS UPPER, 4000 WATTS LOWER, 33 GPH RECOVERY @ 100° F RISE 480V/3φ/ SEE SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.
LS-1	LAB SINK	1-1/2" *	1-1/2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL

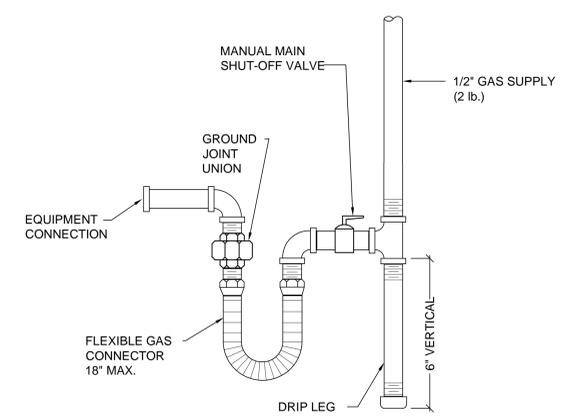
HAIR INTERCEPTOR



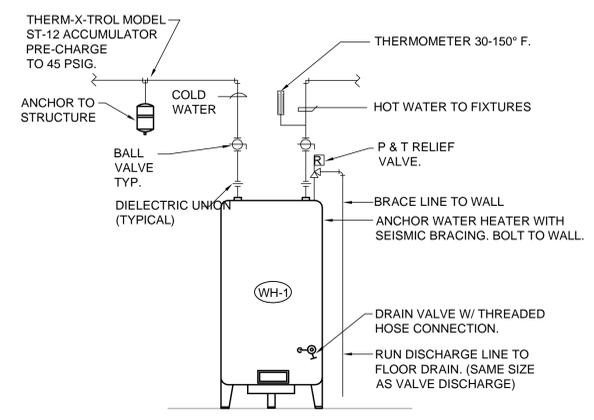
B3 GAS PIPING ON BUILT-UP ROOF DETAIL
SCALE: NONE



B5 TRAP PRIMER DETAIL
SCALE: NONE



A3 GAS LINE CONNECTION DETAIL
SCALE: NONE



A5 ELECTRIC WATER HEATER DETAIL
SCALE: NONE

Rev #	Date	Description

Job #	06650
CAD File	07015.vrtrm.dwg
Drawn	LGD
Checked	SLW
Date	07-18-07
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PLUMBING DETAILS AND SCHEDULES

LIGHTING FIXTURE SCHEDULE				
SYMBOL	DESCRIPTION	LAMPS	APPROVED MANUFACTURERS	CATALOG NUMBER
T-1	2'x4' LAY-IN FLUORESCENT LIGHT FIXTURE WITH REGRESSED DOOR AND 125 PRISMATIC LENS. CENTER LAMP ON SEPERATE BALLAST.		LITHONIA	25F9G-332A125-MVOLT-GBEIDIS
			LIGHTOLIER	SFS2GRAV1332UNV50
			METALUX	2GCBRA332A125-UNV-ER82
T-2	SAME AS TYPE T-1 EXCEPT WITH INVERTED LENS.		LITHONIA	25F2-G-332A125-125PH-MVOLT-GBEIDIS
			LIGHTOLIER	SFS2GRINV332UNV50
			METALUX	2GCBRA332A125-INV-UNV-ER82
T-3	4'x2' LAMP INDUSTRIAL LIGHT FIXTURE WITH 10% AP LIGHT	2F32	LITHONIA	KH4A232UNV50
			LIGHTOLIER	IA232-UNV-ER81
			METALUX	
EX-1	LED EXIT SIGN WITH DIE CAST HOUSING AND NICAD BATTERY.	INCLUDED	LITHONIA	LESIGELN
			LIGHTOLIER	LDSNUG4
			METALUX	LPOCE15G4H44C

NOTES:

- ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC PROGRAMMABLE START BALLASTS, 10% TOTAL HARMONIC DISTORTION, UNIVERSAL ADVANCE AND PENNSYLVANIA ARE APPROVED MANUFACTURERS. BALLASTS TO HAVE 5 YEAR WARRANTY.
- ALL FLUORESCENT LAMPS SHALL HAVE 4100° COLOR TEMPERATURE.
- FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR TO PLACING ANY ORDER.
- THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER.

MECHANICAL EQUIPMENT SCHEDULE										
NAME OF MECHANICAL EQUIPMENT	ROOF TOP UNIT		EXHAUST FAN		WATER HEATER					
	RT-1	RT-2	EF-1	EF-2	WH-1					
EQUIPMENT NO.										
RATINGS/WATTS	--	--	J21	J21	4000					
VOLTAGE	480	480	120	120	211					
PHASE	3	3	1	1	1					
AMPS	151	168	--	--	14.44					
WIRE SIZE	3#12	3#10	2#12	2#12	2#12					
GROUND WIRE	#12	#12	#12	#12	#12					
CONDUIT SIZE	3/4"	3/4"	3/4"	3/4"	3/4"					
FUSE DISC. SH.	30	30	--	--	--					
TYPE RFI FUSES	20	25	--	--	--					
NON-FUSE SH.	--	--	--	--	--					
CAPACITOR (KVAR)	--	--	--	--	--					
NOTES	1	1	2	2	2					

NOTES:

- STARTER IS FURNISHED WITH THE UNIT. PROVIDE SITE DISCONNECT.
- PROVIDE THERMAL OVERLOAD SWITCH.

GENERAL NOTES:

- ALL MATERIALS TO BE REMOVED AND RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.
- ALL CONCEALED CONDUIT THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISH SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND REMOVED FROM THE CONDUIT.
- IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED TO THE DEVICES WHICH ARE TO REMAIN, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUIT INTEGRITY.
- THE CONTRACTOR SHALL PATCH THE WALLS AND CEILINGS WHERE THE DEVICES ARE REMOVED TO MATCH THE EXISTING WALLS AND CEILINGS. COORDINATE WITH GENERAL CONTRACTOR.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
- MINIMUM SIZE OF CONDUIT TO BE 3/4". ALUMINUM CONDUITS SHALL NOT BE USED.
- USE RIGID STEEL SET SCREEN TYPE FITTINGS ONLY. DIE CAST FITTINGS SHALL NOT BE USED.
- SUPPORT THE LAY-IN TYPE FIXTURES FROM THE CEILING DECK INDEPENDENT OF THE CEILING GRID, AS SHOWN ON THE TYPICAL RECESSED FIXTURE MOUNTING DETAIL.
- REFER TO THE MECHANICAL SHEETS FOR THE EXACT LOCATION OF THE MECHANICAL EQUIPMENT.
- ALL NEW WORK MUST MEET THE CURRENT ADOPTED NATIONAL ELECTRICAL CODE.
- NOT MORE THAN THREE (3) CIRCUITS, SHALL BE INSTALLED IN A CONDUIT. EACH CIRCUIT SHALL CONSIST OF 1 CONDUCTOR FOR EACH PHASE, 1 NEUTRAL, AND 1 GROUND, FOR A TOTAL OF FIVE CONDUCTORS.
- THE MINIMUM SIZE OF THE CONDUCTORS ARE TO BE #12 AWG THIN COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- ALL J-BOXES SHALL HAVE MINIMUM DEPTH OF 2-1/8" UNLESS OTHERWISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER RUD RINGS.
- ALL THE WORKINGS MUST BE ACCESSIBLE IN THE CEILING PLENUM. DO NOT CARRY A WORKING FROM ONE DEVICE TO ANOTHER WHICH IS TIED TO A SEPARATE WORKING INSIDE THE WALL. MARK ON ALL THE J-BOXES THE CIRCUIT NAMES AND NUMBERS.
- PAINT ALL THE J-BOXES FOR FIRE ALARM SYSTEM WITH RED PAINT. MARK ALL THE CONDUIT FOR FIRE ALARM SYSTEM EVERY 8' WITH RED STRIPE.
- COORDINATE WITH THE OWNER AND ARCHITECT FOR THE EXACT LOCATION OF THE OUTLETS.
- LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH ONE PIECE COVERPLATE.
- AT THE END OF THE JOB, PROVIDE BLANK COVER PLATES TO MATCH THE OTHER COVER PLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
- SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH FIRE RATED MATERIAL. 3M IS AN APPROVED MANUFACTURER.
- ALL MATERIALS USED IN THIS INSTALLATION SHALL BE U.L. APPROVED AND NEW.
- ALL ELECTRICAL WIRINGS MUST BE IN CONDUIT (RCP) EXCEPT 1/2" CABLE NOT PERMITTED.
- FLEXIBLE CONDUITS CAN ONLY BE USED FOR SHORT RUNS (6' MAXIMUM).
- NO CONDUITS SHALL RUN IN DUCT WORK.
- FOR ALL INCANDESCENT LIGHT FIXTURES 150 C RATED CONDUCTORS ARE REQUIRED.
- PRIOR TO SUBMITTING A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED. ALL LABOR, MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE BY THE TENANT. REPLACE OR REPAIR ALL DEFECTS DURING THE GUARANTEED PERIOD.
- ALL DUPLEX OUTLETS AND SWITCHES SHALL BE 20 AMP, 120 VOLT SPEC GRADE. HUBBELL AND PASS 4 SETMOUR AND LEVITON ARE APPROVED MANUFACTURERS.
- THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL BID. FAILURE TO REPORT ANY DISCREPANCY (CATALOG NUMBERS, DISCONTINUED ITEMS, ETC) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO AND FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. NOR SHALL IT BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS IN WRITING TO THE ARCHITECT/ENGINEER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM.
- PROVIDE TYPED LABEL FOR ALL DUPLEX OUTLETS AND LIGHT SWITCHES TO INDICATE WHICH CIRCUIT THEY ARE TIED TO.
- INSTALL EXIT SIGNS ON THE WALL IF POSSIBLE.
- CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
- TO MINIMIZE NUMBER OF FALSE FIRE ALARM DURING CONSTRUCTION, THE CONTRACTOR SHALL CAP SMOKE DETECTORS IN AREAS ADJACENT TO WORK SITE WHILE DUST-GENERATING WORK IS PERFORMED. THESE CAPS SHALL BE REMOVED AT END OF WORKDAY. COORDINATE THE EXTENT OF DEVICE CAPPING REQUIRED WITH CAPTUS FIRE MARSHALL. A LOG SHALL BE KEPT SHOWING THAT ALL CAPS ARE REMOVED AND ACCOUNTED FOR.
- IF, FOR ANY REASON FIRE ALARM SYSTEM CANNOT BE RETURNED TO SERVICE AT THE END OF WORK DAY THE CAPTUS FIRE MARSHALL MUST BE NOTIFIED. CONTRACTOR SHALL PROVIDE FIRE WATCH AT NO ADDITIONAL COST TO THE OWNER.
- ALL FLOORS SHALL BE SCANNED FOR NEW HOLES IN EXISTING CONCRETE SLABS WITH GROUND PENETRATING RADAR. METHOD OF PROCEDURE IS REQUIRED AND SHALL BE APPROVED BY STRUCTURAL ENGINEER PRIOR TO START OF CORE DRILLING.
- USE NO. 10 THIN CONDUCTORS FOR CONDUCTOR LENGTH OVER 100 FEET, NO. 8 THIN OVER 200 FEET, NO. 6 THIN OVER 300 FEET AND NO. 4 THIN OVER 400 FEET LENGTH.

POWER SYSTEMS SYMBOL LIST	
SYMBOL	DESCRIPTION
	DUPLEX CONVENIENCE OUTLET - 20 AMP
	DUPLEX CONVENIENCE OUTLET - 20 AMP GROUND FAULT INTERRUPTER
	4-PLEX CONVENIENCE OUTLET - 20 AMP
	SPECIAL PURPOSE SINGLE PHASE OUTLET
	FLUSH FLOOR OUTLET BOX
	JUNCTION BOX - SIZE AND FUNCTION AS REQUIRED
	PUSH BUTTON SWITCH
	FUSED DISCONNECT SWITCH - SIZE AS REQUIRED
	MOTOR LOCATION
	MANUAL DISCONNECT WITH THERMAL OVERLOAD PROTECTION
	ELECTRICAL PANEL LOCATION
	ELECTRICAL METER LOCATION
	MECHANICAL EQUIPMENT CALLOUT
	REFERENCE NOTE CALLOUT

LIGHTING SYSTEM SYMBOL LIST	
SYMBOL	DESCRIPTION
	SURFACE MOUNTED FLUORESCENT FIXTURE
	EMERGENCY LIGHTING
	EMERGENCY NIGHT LIGHT
	FLUORESCENT STRIP LIGHT FIXTURE
	RECESSED FIXTURE
	WALL MOUNTED FIXTURE
	EXIT LIGHT, ARROWS SHOW EXIT DIRECTION
	SINGLE POLE TOGGLE SWITCH - 20 AMP
	THREE WAY TOGGLE SWITCH - 20 AMP
	SLIDE CONTROL DIMMER
	LIGHTING FIXTURE CALLOUT, NUMBER INDICATES A SUGGESTED QUANTITY - TO BE VERIFIED

FIRE ALARM SYSTEM SYMBOL LIST	
SYMBOL	DESCRIPTION
	FIRE ALARM SYSTEM PHOTOELECTRIC SMOKE DETECTOR
	FIRE ALARM MANUAL PULL STATION, 48" A.F.F.
	FIRE ALARM HORN WITH STROBE HIGH DECIBEL, 96" A.F.F.
	FIRE ALARM HORN HIGH DECIBEL, SEE ARCH. ELEVATIONS FOR HEIGHT
	A.D.A. STROBE FOR FIRE ALARM, 96" A.F.F.

COMMUNICATION SYSTEMS SYMBOL LIST	
SYMBOL	DESCRIPTION
	FLUSH TELE/DATA OUTLET BY TELECOMMUNICATIONS CONTRACTOR

ABBREVIATIONS SYMBOL LIST	
SYMBOL	DESCRIPTION
H.P.	INDICATES WEATHER PROOF EQUIPMENT
A	INDICATES DEVICE IS ABOVE COUNTER TOP
E	INDICATES DEVICE IS ON EMERGENCY CIRCUIT.
S	INDICATES DEVICE IS SURFACE MOUNTED
CLG	INDICATES CEILING MOUNTED DEVICE
F.A.C.P.	FIRE ALARM CONTROL PANEL



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VALENTINER
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VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UTAH 84102
Phone: (801) 575-8800
Fax: (801) 531-8850
WWW: www.vcbo.com

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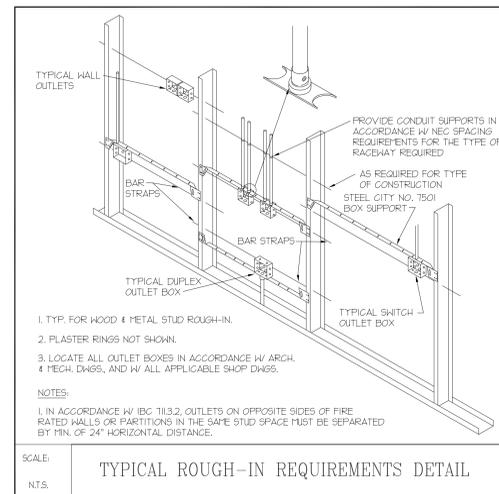
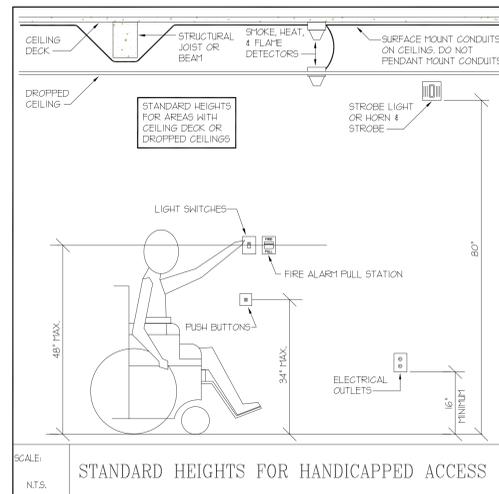
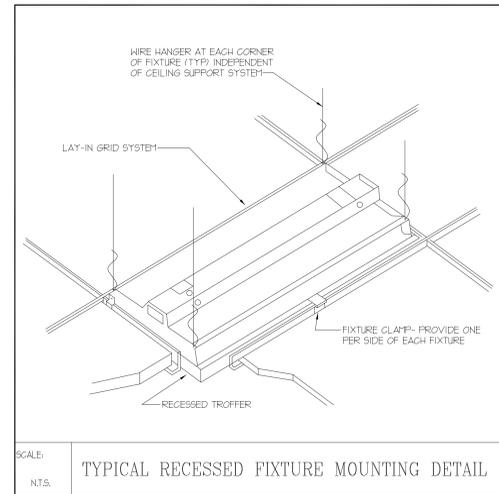
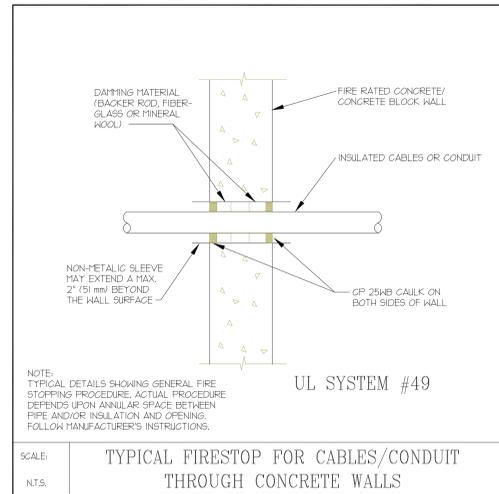
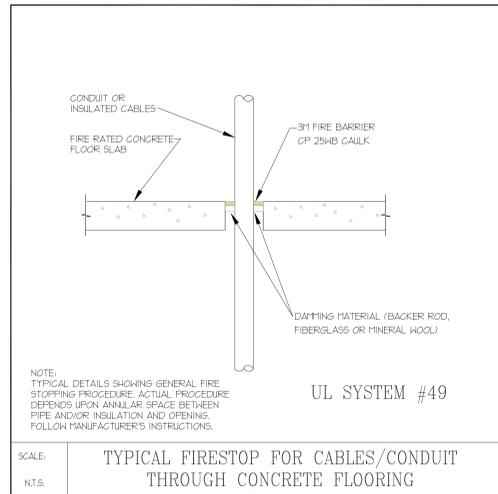
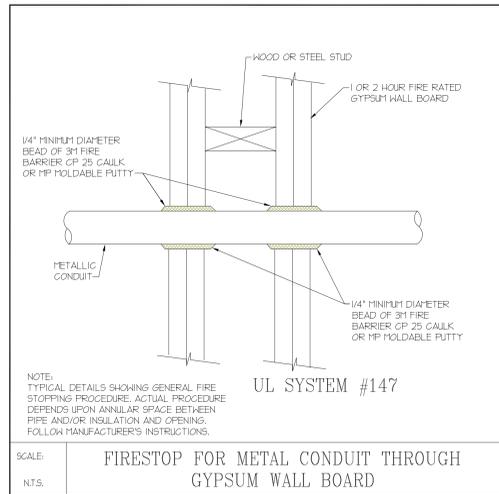
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Job #	3448
CAD File	E001.dwg
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Date	06.28.07
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NOTES, SYMBOL LIST AND FIXTURE SCHEDULE

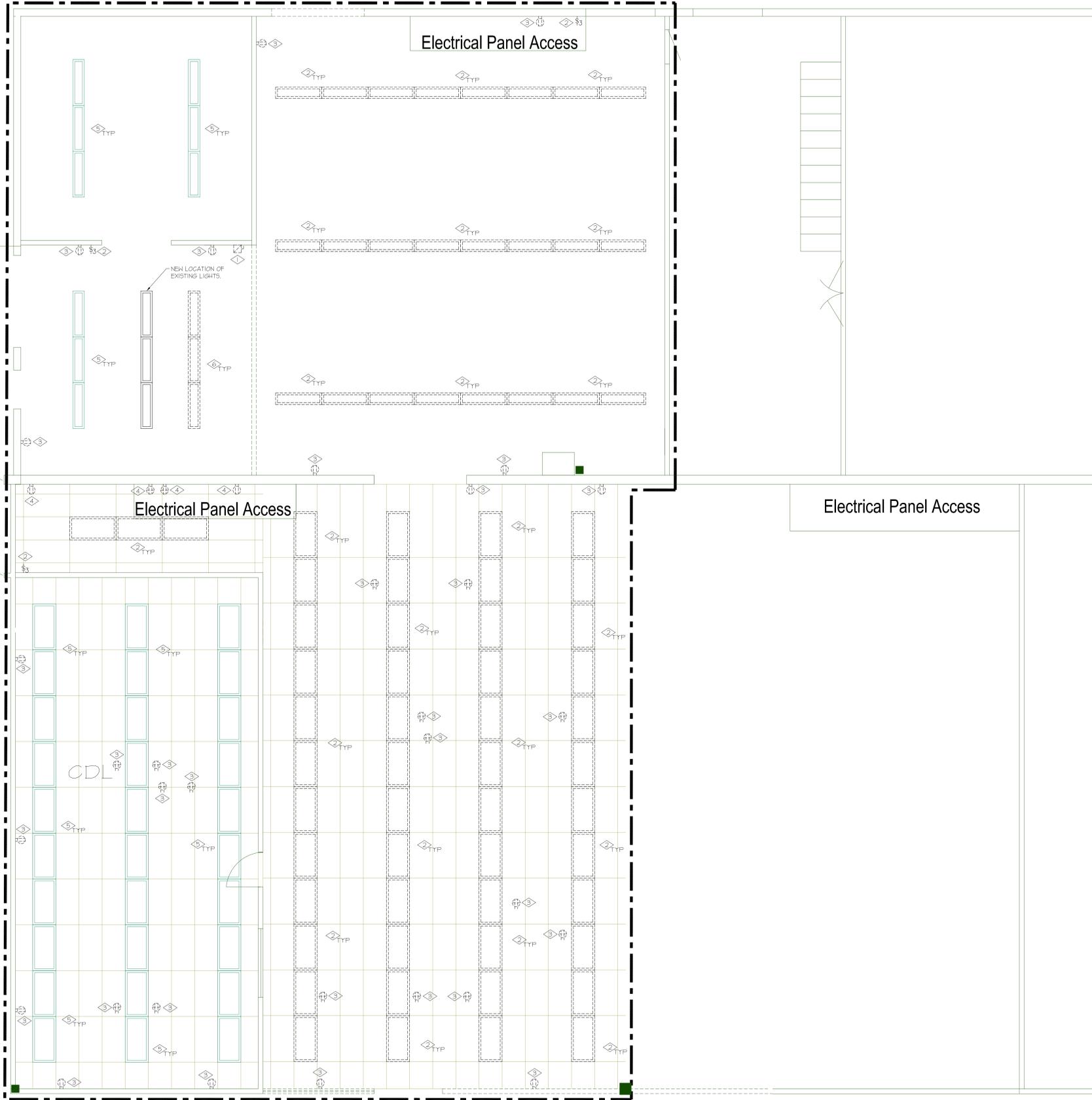


E.C.E. INC.
939 So. West Temple
Salt Lake City, Utah 84111
Telephone: (801) 521-4087
Telex: (801) 521-4087



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Job # 3448
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- REFERENCE NOTES:**
- ① EXISTING MECHANICAL UNITS AND CONTROL PANELS SHALL BE REMOVED BY OTHERS. DISCONNECT POWER AND REMOVE ASSOCIATED CONDUIT, CONDUCTORS, DISCONNECT, ETC., ALL THE WAY BACK TO ORIGINATION POINTS.
 - ② REMOVE THE EXISTING LIGHT FIXTURES AND LIGHT SWITCHES, ETC. WHETHER OR NOT SHOWN ON THE PLAN. REMOVE ASSOCIATED CONDUIT, CONDUCTORS, J-BOXES ETC. ALL THE WAY BACK TO THEIR ORIGINATION POINTS. UTILIZE EXISTING CONDUIT AS POSSIBLE. REMOVE ANY ABANDONED CONDUIT AND J-BOXES.
 - ③ REMOVE THE EXISTING OUTLETS, J-BOXES, VOICE/DATA OUTLETS, ETC. WHETHER OR NOT SHOWN ON THE PLAN. REMOVE ASSOCIATED CONDUIT, CONDUCTORS, J-BOXES, ETC., ALL THE WAY BACK TO ORIGINATION POINTS.
 - ④ EXISTING DUPLEX OUTLETS ARE TO REMAIN. MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.
 - ⑤ EXISTING LIGHT FIXTURES ARE TO REMAIN. MAINTAIN CIRCUIT INTEGRITY TO THESE FIXTURES. PROVIDE CONDUIT, CONDUCTORS, J-BOXES, ETC. AS NEEDED.
 - ⑥ MOVE EXISTING LIGHTS TO NEW LOCATION. EXTEND AND PROVIDE CONDUIT, CONDUCTORS, J-BOXES, ETC. AS NEEDED FOR A COMPLETE INSTALLATION.

- GENERAL DEMOLITION NOTES:**
1. ALL MATERIAL MUST BE REMOVED AND DISPOSED OF BY DEMOLITION CONTRACTOR, UNLESS INDICATED OTHERWISE ON DEMOLITION PLANS.
 2. EXISTING DEMOLITION MATERIALS CAN NOT BE REUSED UNLESS INDICATED OTHERWISE.
 3. ELECTRICAL CONTRACTOR IS TO PROVIDE TEMPORARY LIGHTING AND POWER FOR OTHER TRADES DURING DEMOLITION WORK. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR.
 4. DEMOLITION CONTRACTOR IS TO REMOVE ALL THE ELECTRICAL DEVICES, FIRE ALARM DEVICES, TELEPHONE JACKS, DATA LINES, LIGHT FIXTURES, EXIT SIGNS, ETC. IN THE ENTIRE REMODEL SPACE UNLESS IS INDICATED OTHERWISE. REMOVE ALL CONDUIT, CONDUCTORS, J-BOXES, ETC. CONDUIT AND J-BOXES EMBEDDED IN BLOCK OR CONCRETE WALLS ARE TO REMAIN. CUT THE CONDUIT FLUSH WITH THE WALL OR CEILING AND REMOVE ALL THE CONDUCTORS.
 5. DEMOLITION CONTRACTOR IS TO REMOVE ALL ELECTRICAL CONNECTIONS AND CONTROL WIRING TO ALL THE EXISTING MECHANICAL EQUIPMENT IN THE REMODEL AREA, ETC. AS CALLED OUT ON MECHANICAL DEMOLITION PLANS. REMOVE ALL CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARDS. COORDINATE THIS WORK WITH MECHANICAL CONTRACTOR.
 6. ALL MATERIALS TO BE REMOVED FROM THE PREMISES BY THE DEMOLITION CONTRACTOR.
 7. PRIOR TO SUBMITTING A BID THE DEMOLITION CONTRACTOR SHALL INSPECT THE SITE AND INCLUDED IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS.

- ALTERNATE NO. 2**
1. UNDER ALTERNATE NO. 2, CONTRACTOR IS TO LEAVE THE EXISTING LIGHT FIXTURES, OUTLETS, DEVICES, ETC. IN CLASSROOM 24 STUDENTS PROVIDE NEW LIGHT SWITCH FOR EXISTING LIGHTS IN NEW WALL. COORDINATE WITH GENERAL CONTRACTOR.

DEMOLITION FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



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VALENTINER
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BRUNJES
ONYON



VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UTAH 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

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1400 North 1000 West, Logan, Utah
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939 So. West Temple
Salt Lake City, Utah 84111
Telephone (801) 521-4087
Telex (801) 521-4087



REFERENCE NOTES:

- 1. TIE THE POWER CIRCUITS TO 20 AMP, 1-POLE CIRCUIT BREAKERS IN EXISTING 120/208 VOLT PANEL. UTILIZE EXISTING CIRCUITS AS POSSIBLE. FIELD VERIFY.
- 2. FURNISH AND INSTALL A SMOKE DETECTOR IN APPROXIMATE LOCATION SHOWN. TIE THE NEW DEVICES TO EXISTING FIRE ALARM CONTROL PANEL IN CLASS 'A' LOOP. IN AND OUT CABLES TO DEVICES MUST RUN IN A SEPARATE CONDUIT. NEW DEVICES TO BE THE SAME BRAND AND TYPE AS EXISTING (FIELD VERIFY). PROVIDE CONDUIT, CONDUCTORS, RELAYS, J-BOXES ETC. FOR A COMPLETE INSTALLATION.
- 3. FURNISH AND INSTALL NEW FIRE ALARM SPEAKER/ORN THE SAME TYPE AND BRAND AS EXISTING IN THE APPROXIMATE LOCATION SHOWN. TIE THE NEW DEVICES TO EXISTING FIRE ALARM CONTROL PANEL THROUGH NEW POWER SUPPLY. PROVIDE CONDUIT, CONDUCTORS, RELAY MODULES, POWER SUPPLY, ETC. FOR A COMPLETE INSTALLATION. COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF NEW DEVICES.
- 4. FURNISH AND INSTALL A DUPLEX OUTLET ABOVE CEILING FOR CEILING MOUNTED PROJECTOR. COORDINATE WITH ARCHITECT AND OWNER FOR EXACT LOCATION.
- 5. DO NOT RUN THE CONDUIT ON THE ROOF. RUN IN CEILING FLENDUT AGAINST THE DECK.
- 6. INSTALL THE NEW DUPLEX OUTLET FLUSH ON THE SIDE OF THE MILLWORK. COORDINATE WITH ARCHITECT FOR EXACT LOCATION AND HEIGHT. SAW OUT THE FLOOR SLAB TO RUN THE CONDUIT AND PATCH TO MATCH EXISTING CONDITION. COORDINATE WITH GENERAL CONTRACTOR.
- 7. FURNISH AND INSTALL A 4"X 4"X 2 1/8" J-BOX WITH SINGLE GANG MID RING IN APPROXIMATE LOCATION SHOWN. RUN TWO (2) 3/4" CONDUIT FROM EACH J-BOX TO CEILING FLENDUT.
- 8. FURNISH AND INSTALL A SPECIAL, 3 PHASE, 208 VOLT, 20 AMP OUTLET FOR NEW HYDRALIC SQUEEZE CHUTE IN APPROXIMATE LOCATION SHOWN. COORDINATE WITH OWNER FOR EXACT LOCATION AND NEW TYPE. PROVIDE A PLUG TO MATCH THE RECEPTACLE. RUN 4 #12 THHN, 1 #2 THHN GROUND IN 3/4" CONDUIT FROM THIS OUTLET TO A NEW 20 AMP, 3 POLE CIRCUIT BREAKER IN EXISTING PANEL FOR A COMPLETE INSTALLATION.
- 9. TIE THE NEW ROOF TOP UNIT TO A NEW 20 AMP, 3 POLE CIRCUIT BREAKER IN EXISTING 480 VOLT PANEL.
- 10. TIE THE NEW ROOF TOP UNIT TO A NEW 30 AMP, 3 POLE CIRCUIT BREAKER IN EXISTING 480 VOLT PANEL.
- 11. TIE THE NEW WATER HEATER TO A NEW 20 AMP, 1 POLE CIRCUIT BREAKER IN EXISTING 480 VOLT PANEL.
- 12. TIE THE NEW EXHAUST FANS TO A 20 AMP, 1 POLE CIRCUIT BREAKER IN EXISTING 120/208 VOLT PANEL.
- 13. FURNISH AND INSTALL A DUCT SMOKE DETECTOR WITH SAMPING TUBE IN RETURN AIR DUCT FOR NEW AIR HANDLING UNIT. TIE THE DUCT DETECTOR TO EXISTING FIRE ALARM CONTROL PANEL IN CLASS 'A' LOOP. IN AND OUT CONDUCTORS TO THE DEVICE MUST RUN IN SEPARATE CONDUIT. NEW DUCT DETECTOR TO BE THE SAME BRAND AND TYPE AS EXISTING. FIELD VERIFY. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF DUCT DETECTOR.
- 14. TIE THE NEW ROOF TOP UNIT TO FIRE ALARM CONTROL PANEL FOR AUTOMATIC FAN SHUT DOWN. PROVIDE CONDUIT, CONDUCTORS, RELAY MODULE, ETC. FOR A COMPLETE INSTALLATION.

ALTERNATE NO. 2

ALL ELECTRICAL WORK IN CLASSROOM 24 STUDENTS WILL BE UNDER ALTERNATE NO. 2. COORDINATE WITH GENERAL CONTRACTOR.

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



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VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UTAH 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

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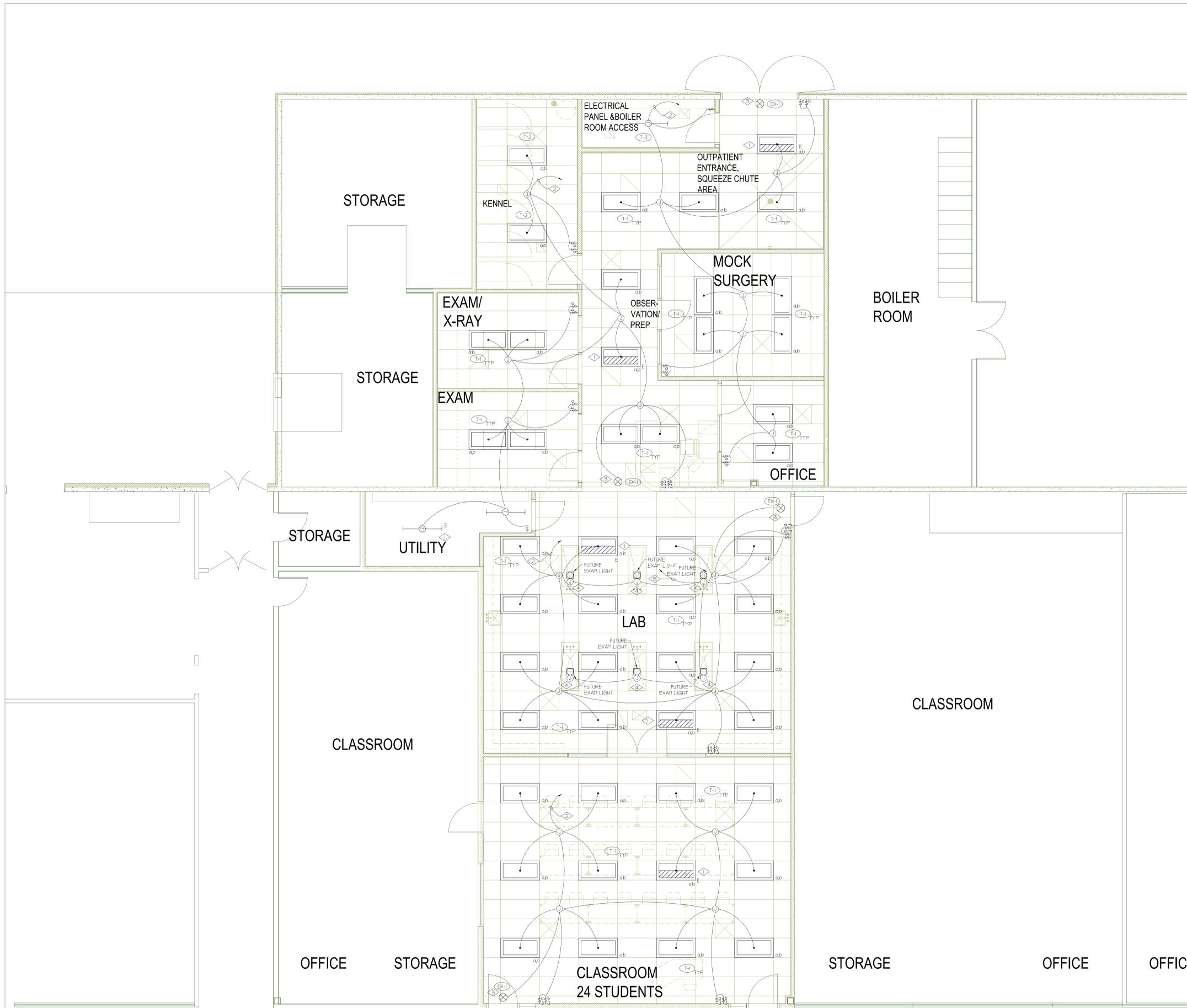
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FLOOR PLAN - ELECTRICAL



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939 So. West Temple
Salt Lake City, Utah 84111
Telephone (801) 521-4087
Telex (801) 521-4087

E101
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REFERENCE NOTES:

- 1. PROVIDE EMERGENCY BATTERY PACK FOR LIGHT FIXTURES DESIGNATED WITH LETTER 'E'. RUN UNSWITCHED LIGHTING CIRCUIT TO THE BATTERY PACK.
- 2. TIE THE LIGHTING CIRCUITS TO 20 AMP, 1-POLE CIRCUIT BREAKER IN EXISTING 277/480VOLT PANEL. UTILIZE EXISTING CIRCUITS AS POSSIBLE.
- 3. TIE THE EXIT SIGNS TO NEAREST UNSWITCHED LIGHTING CIRCUIT.
- 4. FURNISH AND INSTALL A J-BOX ABOVE THE CEILING FOR FUTURE EXAM LIGHT THROUGH A LIGHT SWITCH AS SHOWN. COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF THE J-BOXES.
- 5. TIE THE J-BOXES FOR EXAM LIGHTS TO A 20 AMP, 1-POLE CIRCUIT BREAKER IN EXISTING 120/208 VOLT PANEL.

ALTERNATE NO. 2

ALL ELECTRICAL WORK IN CLASSROOM 24 STUDENTS WILL BE UNDER ALTERNATE NO. 2. COORDINATE WITH GENERAL CONTRACTOR.



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VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UTAH 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

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FLOOR PLAN - LIGHTING
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FLOOR PLAN - LIGHTING



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939 So. West Temple
Salt Lake City, Utah 84111
Telephone (801) 521-4087
Telex (801) 521-4087