

File Name: H:\660 Asbuilts\660-323 Surgery Suite Remodel\ZEEGO Power & Cooling\323 07MH101.dwg Last Plotted: 2014/06/10 @ 9:32 AM By: vhsalcrayan

E

D

C

B

A

SPLIT SYSTEM DUCTLESS AIR CONDITIONING UNIT															
SYMBOL	UNIT	DESCRIPTION	MANUFACTURER	MODEL NO.	AIRFLOW (CFM)	COOLING CAPACITY (1)		ELECTRICAL				SOUND LEVEL dB(A)	WEIGHT (LBS)	OPTIONS & ACCESSOIRS	NOTES / COMMENTS
						(BTU/H)	SEER	MCA	VOLTS	PHASE	CYCLE				
AC-1	INDDOOR UNIT	WALL MOUNTED	MITSUBISHI	PKA-A18KA4	420	18,000	14.2	1.0	208-230	1	60	32	46	(11)(12)(13)	(3)(4)(5)(6)
	OUTDOOR UNIT	HORIZONTAL AIRFLOW		PUY-A18NHA4	1,940			13.0	208-230	1	60	48	163		
ACCEPTABLE MANUFACTURERS		NOTES						OPTIONS & ACCESSORIES							
MITSUBISHI PANASONIC LG FUJITSU		(1) 80 F DB 67 F WB ENTERING AIR, 95 F DB 75 F WB AMBIENT AIR TEMP. (2) 60 F DB 60 F WB ENTERING AIR, 17 F DB AMBIENT AIR TEMPERATURE (3) R-410A REFRIGERANT (4) INDOOR UNIT RECEIVES POWER FOR OUTDOOR UNIT THROUGH FIELD SUPPLIED INTERCONNECTED WIRING (5) MAXIMUM HEIGHT OF INDOOR UNIT SHALL BE 12" (TO FIT ABOVE DOOR) (6) RUN CONDENSATE DRAIN LINE IN WALL TO DRAIN.						(11) REFRIGERANT LINE SET BY MANUFACTURER (5/8" O.D. RS, 3/8" O.D. RL) (12) WIRED REMOTE CONTROLLER (13) THERMOSTATIC EXPANSION VALVE (14) CONDENSATE REMOVAL PUMP (LITTLE GIANT EC-402, 1.0 GPM AT FT. HEAD)							

GENERAL EQUIPMENT NOTES

- ALL CAPACITIES ARE AT JOB SITE CONDITIONS AND ARE MINIMUM CAPACITY.
- ALL AIR CONDITIONING EQUIPMENT SHALL BE A.R.I. CERTIFIED AND U.L. LISTED.
- ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED TO CONFORM WITH LOCAL SEISMIC REQUIREMENTS AND THE REQUIREMENTS OF THESE CONSTRUCTION DOCUMENTS.
- VERIFY ALL REQUIRED SERVICE CONNECTIONS, INCLUDING ELECTRICAL CHARACTERISTICS FOR ALL EQUIPMENT PRIOR TO ORDERING EQUIPMENT.
- ALL EQUIPMENT SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURAL MEMBERS.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- ALL SIMILAR EQUIPMENT SHALL BE OF THE SAME MANUFACTURER.
- AIR INLETS AND OUTLETS SHALL BE OF THE SAME MANUFACTURER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HVAC EQUIPMENT CHECK-IN, SAFEKEEPING, AND DAMAGE.
- ALL SYSTEM COMPONENTS, WHERE REQUIRED, SHALL BE CERTIFIED AND LISTED BY A THIRD PARTY.
- PROVIDE VIBRATION ISOLATION AS SPECIFIED ON "EQUIPMENT VIBRATION ISOLATOR SCHEDULE".
- ALL HVAC AND REFRIGERATION EQUIPMENT SHALL BE IDENTIFIED WITH PERMANENT LABEL AS TO THE AREA SERVED. IDENTIFICATION SHALL BE ENGRAVED PLASTIC TAGS PERMANENTLY AFFIXED TO EACH PIECE OF EQUIPMENT.
- A MINIMUM OF 36" CLEARANCE SHALL BE PROVIDED AROUND ALL EQUIPMENT FOR SERVICING AND MAINTENANCE.

GENERAL MECHANICAL NOTES

- THE MECHANICAL DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENT AND EXTENT OF THE MECHANICAL SYSTEM. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THESE DRAWINGS DO NOT SHOW ALL OFFSETS, BENDS OR ELBOWS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. CONTRACTOR SHALL MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT.

MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS, QUANTITIES OR MATERIAL REQUIRE PRIOR APPROVAL BY THE DESIGN ENGINEER.
- THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND SHALL BE INTERPRETED AS IN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGHT SHOWN AND CALLOUT IN BOTH.
- THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODES, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, STATE, AN FEDERAL CODES AN REGULATIONS IN EFFECT.
- THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO ANY CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE BUILDING OWNER.
- PRIOR TO FABRICATION AND INSTALLATION OF ANY MECHANICAL COMPONENT THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL WORK WITH ALL OTHER BUILDING TRADES, INCLUDING BUILDING TRADES HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
- THE SPACE ABOVE ALL CEILINGS IS LIMITED. CAREFUL COORDINATION IS REQUIRED WITH ALL TRADES BEFORE ANY PIPE, DUCT, OR EQUIPMENT IS ORDERED AND OR INSTALLED. ANY CONFLICTS AND/OR CHANGES FOUND DURING INSTALLATION THAT RESULTS FROM THE LACK OF COORDINATION BY THE CONTRACTORS DURING THE SHOP DRAWING PROCESS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL MECHANICAL INFORMATION IS NOT SHOWN ON THE PLUMBING DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW AND USE, WHERE APPROPRIATE, ALL THE MECHANICAL DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE MECHANICAL SYSTEM WITHOUT USING THE INCLUDED DETAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE STRUCTURE SHOWN ON ALL DETAILS MAY OR MAY NOT PERTAIN TO A PORTION OR ANY PORTION OF THE BUILDING. COORDINATED ALL MOUNTING REQUIREMENTS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ANY PART OF THE MECHANICAL INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACES BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- SEE ARCHITECTURAL REFLECTED CEILING PLAIN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS AND GRILLES.
- CONTRACTOR SHALL OPERATE THE SYSTEM AND DEMONSTRATED ALL ASPECTS OF THE SYSTEM TO THE ENGINEER AND/OR OWNER TO PROVE ALL SYSTEMS ARE OPERATIONAL.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A SET OF AS-BUILT REDLINED RECORD DRAINING AT THE PROJECT SITE. ALL CHANGES IN LAYOUT, ROUTING, EQUIPMENT, COMPONENTS, AND ACCESSORIES SHALL BE RECORDED. THESE REDLINED DRAWINGS SHALL BE GIVEN TO THE ARCHITECT/ENGINEER AFTER THE FINAL INSPECTION IN ACCORDANCE WITH SPECIFICATIONS.
- EACH TRADE IS RESPONSIBLE FOR THEIR OWN FIRE CAULKING.
- CUT AND PATCH TO MATCH ADJACENT SURFACE.
- NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED WITHOUT STRUCTURAL ENGINEERS WRITTEN APPROVAL.

MISC. SYMBOL LEGEND

SYMBOL	DESCRIPTION
#	DETAIL INDICATOR: # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
#	ELEVATION OR SECTION INDICATOR, EXTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
#	ELEVATION OR SECTION INDICATOR, INTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
100	ROOM OR SPACE NUMBER.
1	KEYNOTE INDICATOR.
	REVISION INDICATOR.
CU-1	EQUIPMENT INDICATOR.
P-	PLUMBING FIXTURE INDICATOR.
TYPE GPM SIZE	DIFFUSER/GRILLE INDICATOR.
TYPE SIZE	DIFFUSER/GRILLE INDICATOR.
—V—	BREAK, STRAIGHT.
+	BREAK, ROUND.
MATCH LINE SEE XX/X-XXX	MATCH LINE INDICATOR.
— —	HIDDEN FEATURES LINE: HIDDEN, THIN LINE.
— — —	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
—●—	NEW CONNECTION POINT TO EXISTING.

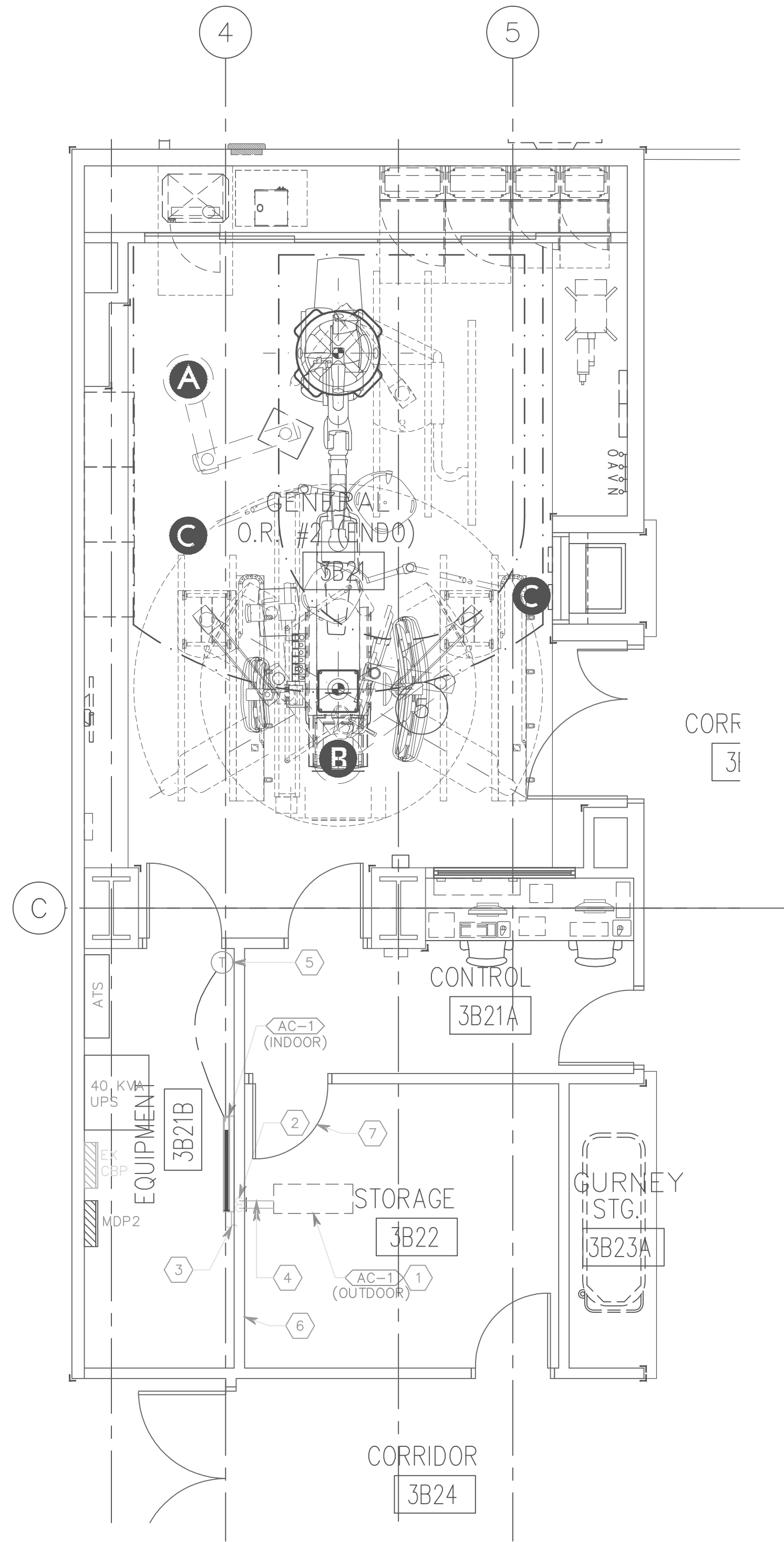
CONTROLS LEGEND

SYMBOL	DESCRIPTION
☒	EMERGENCY BREAK GLASS SWITCH FOR EQUIPMENT SHUT-DOWN
CO	CARBON MONOXIDE SENSOR
CD	CARBON DIOXIDE SENSOR
T #	THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION
TS	THERMOSTAT SENSOR WITH ZONE OR EQUIPMENT DESIGNATOR
H #	HUMIDISTAT/HUMIDITY SENSOR WITH HUMIDIFIER DESIGNATION
TH	COMBINATION TEMPERATURE/HUMIDITY SENSOR
S	DUCT SMOKE DETECTOR
P	STATIC PRESSURE SENSOR
R	REFRIGERANT SENSOR

Notes For Zego Cooling Mechanical Drawings:

5. Per the Statement of Work, construct a seismically-braced 4" metal stud wall to divide room and on which will be mounted the indoor fan coil unit. Rework t-grid ceiling to create two separate ceilings, and match existing rubber base.

6. Per the Statement of Work, create new opening in rear wall of Control Room and install hollow metal frame with hospital stops and solid core door slab of plain sliced red oak with a factory clear coat finish. Door hardware shall match rear door of storage room but be a passage function. Door closer shall have a hold-open function. Door slab shall have 12" stainless steel kick plate on both sides.



1 ENLARGED O.R. MECHANICAL PLAN
SCALE: 1/4"=1'-0"

SHEET KEYNOTES

- MOUNT OUTDOOR UNIT ON 4" HIGH PLATFORM ON ROOF.
- RISE PIPING IN WALL AND SLEEVE THROUGH CONCRETE ROOF. FLASH AND COUNTER FLASH IN ACCORDANCE WITH HOSPITAL REQUIREMENTS.
- RUN DISCHARGE FROM CONDENSATE PUMP TO NEAREST SINK TAILPIECE.
- 1" REFRIGERANT GAS AND 1/2" REFRIGERANT LIQUID PIPING.
- WIRED THERMOSTAT. FURNISHED WITH AIR CONDITIONING UNIT.
- Per the Statement of Work, construct a seismically-braced 4" metal stud wall to divide room and on which will be mounted the indoor fan coil unit. Rework t-grid ceiling to create two separate ceilings, and match existing rubber base.
- Per the Statement of Work, create new opening in rear wall of Control Room and install hollow metal frame with hospital stops and solid core door slab of plain sliced red oak with a factory clear coat finish. Door hardware shall match rear door of storage room but be a passage function. Door closer shall have a hold-open function. Door slab shall have 12" stainless steel kick plate on both sides.



324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

CONSULTANTS

SALT LAKE CITY
VA UPS
FOR ZEGO O.R.

5		
4		
3		
2		
1		

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:	05/09/14	

PROJECT NO:	20130607
DRAWN BY:	BWM
CHECKED BY:	RWM
DESIGNED BY:	RWM
RECORD DRAWING DATE:	

SIGNATURE:
© 2013 Spectrum Engineers, Inc.

SHEET TITLE
MECHANICAL
FLOOR PLAN,
NOTES, AND
SCHEDULES

MH101