# IMED BUILDING 5 - MRI CARING SUITE

ARCHITECTURE

INTERMOUNTAIN HEALTHCARE 5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107

524 SOUTH 600 EAST SALT LAKE CITY, UT 84102 801.575.8800 | VCBO.COM



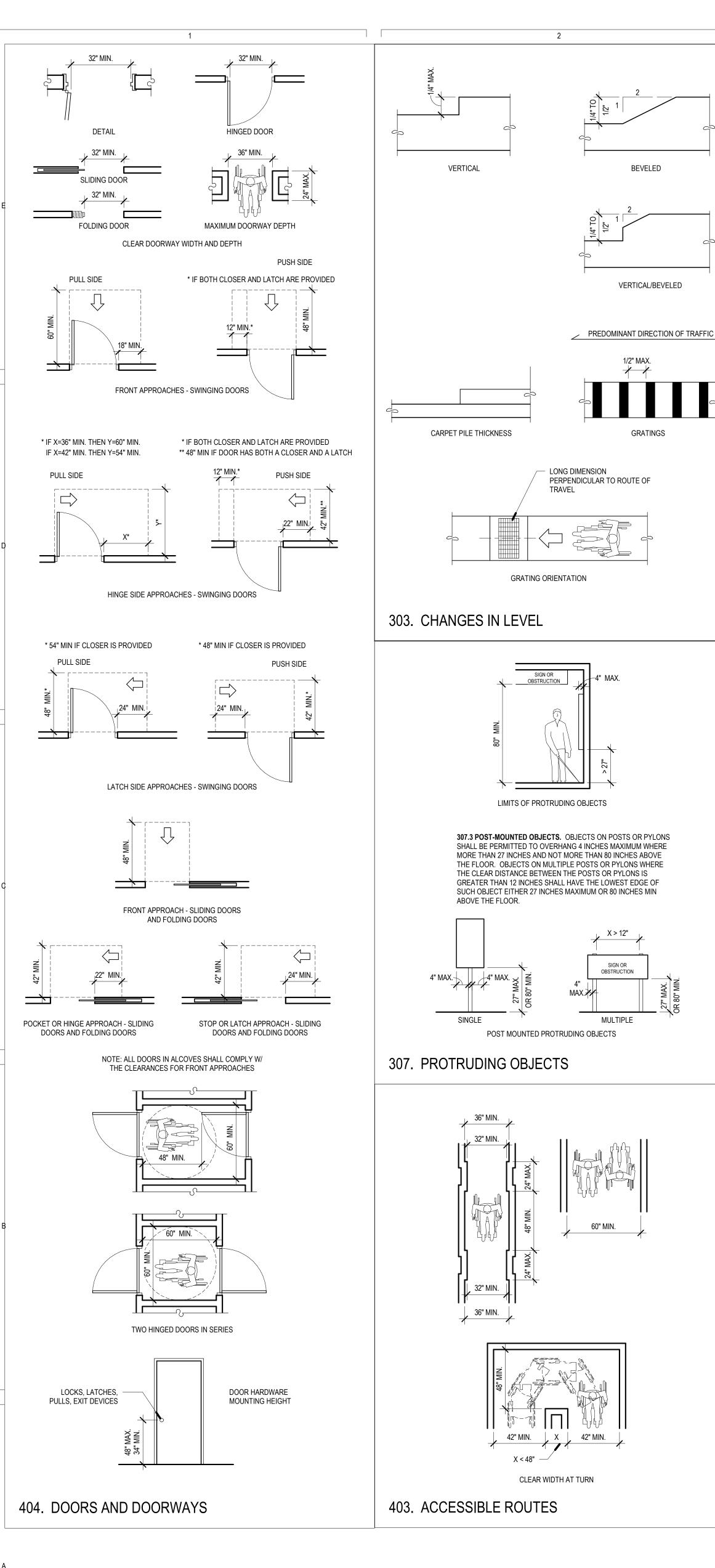
**JEFF PINEGAR**VCBO ARCHITECTURE

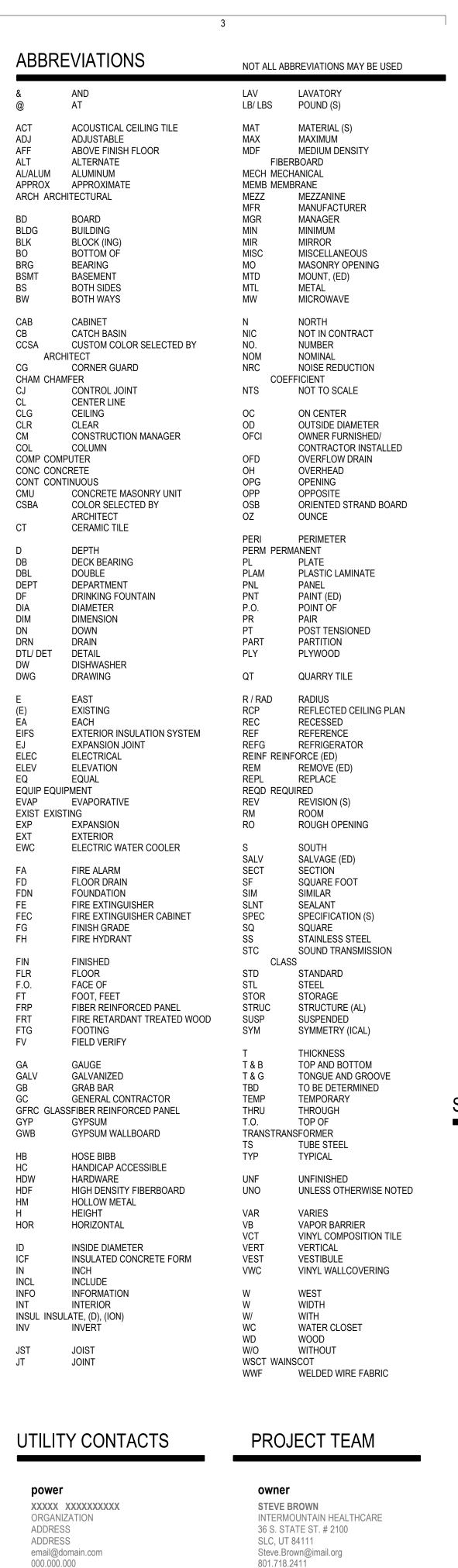
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architect

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water/storm drain

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ORGANIZATION

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email@domain.com 000.000.000

telephone

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### REFERENCE SYMBOL LEGEND **DETAIL SECTION BUILDING SECTION** - ELEVATION NUMBER WALL SECTION NUMBER SIM AND DIRECTION DIRECTION OF VIEW - SHEET WHERE SHEET WHERE DRAWN **LAYOUT GRID LINES** WALL SECTION WALL SECTION NUMBER A101 M DIRECTION OF VIEW — SHEET WHERE DRAWN LEVEL LINE INTERIOR ELEVATION / ELEVATION NUMBER AND DIRECTION ROOM NAME AND NUMBER - SHEET WHERE DRAWN ROOM NAME **DETAIL REFERENCE** 101 - DETAIL NUMBER WALL TYPE MARK CONSTRUCTION TYPE - BY CSI DIVISION DRAWN, HYPEN WALL TYPE INDICATES DETAIL 5A6 - 1 ON SAME SHEET — FIRE RATING NOMINAL SIZE SEE WALL TYPE SHEET FOR ADDITIONAL INFORMATION DRAWING TAGS **REVISIONS TAG** FLOOR TRANSITIONS MARKER REVISION NUMBER SYMBOL **CEILING TAG** CEILING TYPE **ELEVATION MARKER** — CEILING HEIGHT **WINDOW TAG** WINDOW MARKER **FINISH TAG** SHEET SYMBOLS # DRAWING TITLE BASIC DRAWING TITLE PROJECT SHEET NUMBERING + NAMING THIS IS A QUICK REFERENCE GUIDE TO THE SHEET NUMBERING AND NAMING SYSTEM USED IN VCBO CONSTRUCTION DOCUMENTS. XX000.0 PLAN TYPE .0 SLAB PLAN .1 ANNOTATED PLAN .2 DIMENSION + WALL TYPE PLAN .3 FINISH PLAN .4 REFLECTED CEILING PLAN SEQUENCE DENOTES AREA SEQUENCE IN PLAN, AND NUMBERIC SEQUENCE IN NON-PLAN SHEETS - LEVELS DENOTES LEVEL IN A MULTI-STORY BUILDING. ALSO

# - GRID IDENTIFICATION

BECOMES A SEQUENCE NUMBER DENOTING DIVISIONS IN NON-PLAN SHEETS SHEET TYPE SEQUENCE NUMBERING: GENERAL NOTES + LEGENDS

FLOOR PLANS

8 USER DEFINED

EXTERIOR ELEVATIONS EXTERIOR SECTIONS ENLARGED PLANS, ELEVATIONS, SECTIONS DETAIL DRAWINGS DOOR, WINDOW, OTHER SCHEDULES SIGNAGE

9 3D DRAWINGS + PERSPECTIVES

DESIGN DATA

**GOVERNING BUILDING CODES:** IBC 2018, to include Appendix J; ANSI 117-1 2009; NFPA 101 LIFE SAFETY 2018; IMC 2018; IPC 2018; IECC 2018, for commercial projects; IFGC 2018; NEC 2017

TENANT IMPROVEMENT TO EXISTING BUILDING - NOT A CHANGE IN OCCUPANCY TOTAL REMODEL AREA = 575 SF (REMODEL + IMPROVEMENT)

OCCUPANCY TYPE - CH.3

THERE WILL BE NO INVASIVE THERAPIES OR ANESTHESIA. OUTPATIENTS ARE CAPABLE OF SELF-PRESERVATION. INPATIENTS WILL BE ASSISTED BY NURSING PERSONEL

**AUTOMATIC SPRINKLER SYSTEM**: PER SECTION 903 EXISTING SYSTEM TO REMAIN

EXIT ACCESS - CH. 10

COMMON PATH OF EGRESS TRAVEL: PER TABLE 1006.2.1 (MEASEURED FROM THE MOST REMOTE POINT WITHIN A STORY TO THAT POINT WHERE THE OCCUPANTS HAVE SEPARATE ACCESS TO TWO EXITS OR EXIT ACCESS DOORWAYS)

MINIMUM CORRIDOR WIDTH: PER TABLE 1020.2 IN INCHES 44 UNLESS NOTED OTHERWISE 36 WITH AN OCCUPANT LOAD OF LESS THAN 50

EXIT ENCLOSURES AND EXIT PASSAGEWAYS - CLASS B

INTERIOR WALL & CEILING FINISH REQUIREMENTS: PER TABLE 803.11 IN SPRINKLERED BUILDING :

 CORRIDORS AND OTHER EXIT WAYS - CLASS C ROOMS AND ENCLOSED SPACES - CLASS C

INTERIOR FLOORS FINISH: PER 804 IN SPRINKLERED BUILDING - CLASS I & II

### **GENERAL NOTES**

1. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS. TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.

2. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS, THE CONTRACTOR SHALL ENDEAVOR TO IDENTIFY AND NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT.

3. THE ARCHITECTURAL DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL THE TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES. QUANTITIES ARE TO BE PROVIDED AS SHOWN ON DRAWINGS OF OTHER DISCIPLINES BUT LOCATIONS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL PARTS OF THE WORK.

4. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN; DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED.

5. CONTRACTOR TO FOLLOW CURRENT ANSI 117-1 STANDARDS AS REPRESENTED ON SHEET G301, GENERAL ACCESSIBILITY GUIDELINES. NOTIFY ARCHITECT IF THE DESIGN DRAWINGS CONFLICT WITH THIS SHEET.

### NOTES TO BIDDERS

1. 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.

2. THESE DOCUMENTS SHOW THE DESIGN INTENT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE EVERYTHING SHOWN ON THE DRAWINGS OR SPECIFIED REGARDLESS OF WHERE IT IS SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS. FOR EXAMPLE; SOME MILLWORK DETAILS HAVE STEEL FRAMES WHICH MAY BE PROVIDED BY DIVISION 05 OR WITH THE MILLWORK AT THE CONTRACTOR'S DISCRETION, BUT IT SHALL BE PROVIDED AS PART OF THE CONTRACT.

3. EVERYTHING CALLED FOR IN THESE DOCUMENTS SHALL BE "NEW" AND PROVIDED BY THE CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT UNLESS NOTED OTHERWISE AS EXISTING (EXIST), NOT IN CONTRACT (NIC) OR FOR REFERENCE ONLY. FURNISHINGS SHOWN DASHED SHALL BE FOR REFERENCE ONLY.

### SHEET INDEX

SHEET NUMBER	SHEET NAME
	**************************************
GENERAL	
CV	COVER
G001	GENERAL INFORMATION, INDEX & TYPICAL ANSI ACCESSIBILITY STANDARDS
ARCHITECTURAL	SITE
AS101	OVERALL SITE PLAN - OVERALL BUILDING 5
DEMOLITION	
AD110	LEVELS LL-1 & LL-2 - DEMOLITION PLAN - OVERALL
AD110.1	DEMOLITION PLAN & DEMO REFLECTED CEILING PLAN - ENLARGED
ARCHITECTURAL	
A110.0	LEVEL LL-1 SLAB PLAN - ENLARGED
A110.1	LEVEL LL-1 ANNOTATED & DIMENSION PLAN - ENLARGED
A110.2	LEVEL LL-1 REFLECTED CEILING PLAN - ENLARGED
A110.3	LEVEL LL-1 FINISH PLAN - ENLARGED
A120.1	LEVEL LL-2 ANNOTATED AND DIMENSION PLAN - ENLARGED
A400	MRI ROOM - INTERIOR ELEVATIONS + 3D VIEWS
A500	INTERIOR FRAMING & CEILING DETAILS
A510	RF-MAGNETIC SHIELDING DETAILS
A520	CASEWORK DETAILS
MECHANICAL	
M000	MECHANICAL SYMBOLS & LEGENDS
M001	MECHANICAL GENERAL NOTES
M100	LL1 MECHANICAL OVERALL
MD101	MECHANICAL DEMOLITION PLANS
M101	LL1 MECHANICAL PLAN
M501	MECHANICAL DETAILS
M601	SCHEDULES AND SCHEMATIC
MPD102	LL1 MECHANICAL DEMOLITION PLAN
MP101	LL2 MECHANICAL PIPING PLAN
MP102	LL1 MECHANICAL PIPING PLAN
PLUMBING	
PD101	LL1 PLUMBING DEMOLITION PLAN
P101	LL2 PLUMBING PLAN
P102	LL1 PLUMBING PLAN
PD111	LL1 MEDICAL GAS DEMOLITION
P111	LL1 MEDICAL GAS PLAN
FPD101	FIRE PROTECTION DEMOLITION PLAN
FP101	LL1 FIRE PROTECTION PLAN
ELECTRICAL	
EE001	SHEET INDEX, ABBREVIATIONS AND GENERAL NOTES
EE501	TYPICAL MOUNTING HEIGHT DETAILS
EE502	ELECTRICAL DETAILS
EE701	GE DRAWINGS
EE702	GE DRAWINGS
ED111	LOWER LEVEL 1 ELECTRICAL DEMOLITION PLAN
EP101	LOWER LEVEL 1 OVERALL POWER PLAN
EP102	LOWER LEVEL 2 OVERALL POWER PLAN
EP111	LOWER LEVEL 1 POWER PLAN
EP601	ONE-LINE DIAGRAM
EL111	LOWER LEVEL 1 LIGHTING PLAN
EY111	LOWER LEVEL 1 AUXILIARY PLAN
L	LOTTER LEVEL I MOMEMAN I LAN

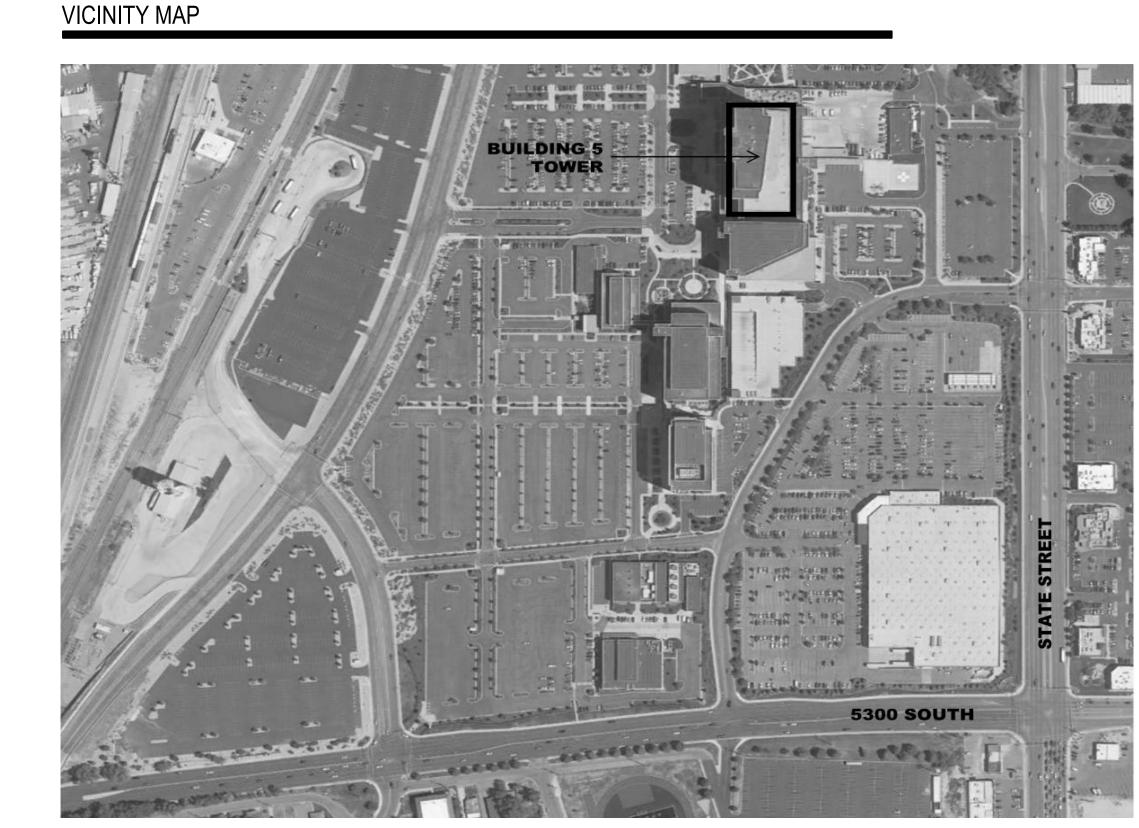
# 524 SOUTH 600 EAST SALT LAKE CITY, UT 84102



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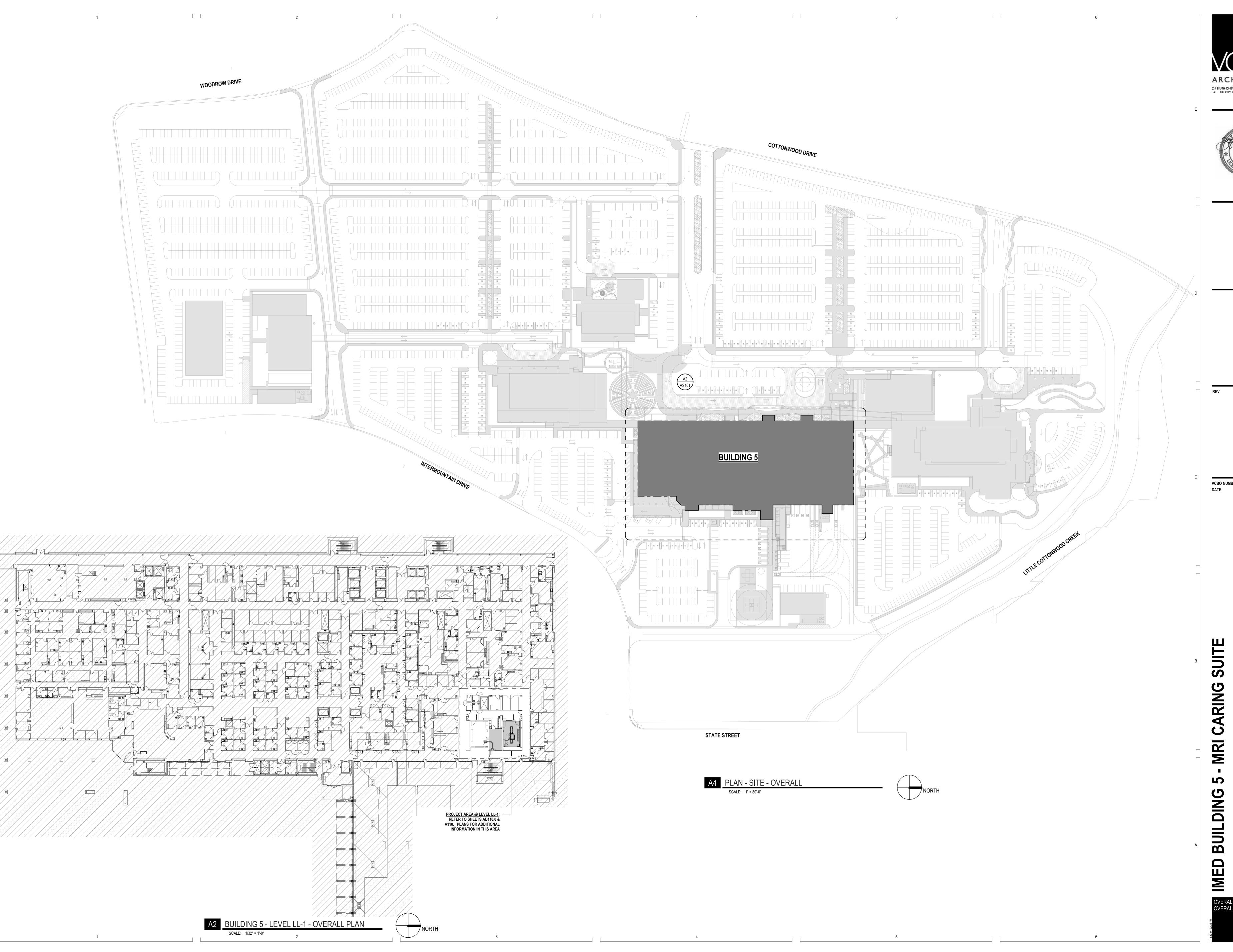
**VCBO NUMBER:** DATE:

07/15/2019



SUITE ARING S M BUILDIN IMED

GENERAL INFORMATION, **INDEX & TYPICAL ANSI ACCESSIBILITY STANDARD** 







DATE DESCRIPTION

**OVERALL BUILDING 5** 

**AS101** 

### GENERAL DEMOLITION NOTES

FOR PROTECTION OF ADJACENT SPACES.

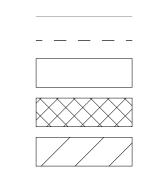
- FIELD VERIFY DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING. BRING DIFFERING DIMENSIONS AND CONDITIONS TO ARCHITECT'S ATTENTION PRIOR TO BIDDING.
- 2. A HAZARDOUS MATERIAL SURVEY IS AVAILABLE FROM THE OWNER. ABATEMENT MUST BE COMPLETED PRIOR TO DEMOLITION OF BUILDINGS OR BUILDING ELEMENTS.
- 3. PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF CONSTRUCTION & DEMOLITION
- 4. COORDINATE MAINTENANCE OF FIRE EGRESS FOR OCCUPANTS IN EXISTING BUILDING WITH THE OWNER AND FIRE MARSHAL. PROVIDE NECESSARY TEMPORARY WALLS OR
- ENCLOSURES, EMERGENCY LIGHTS, ETC., FOR THE DURATION OF CONSTRUCTION.
- 5. BRING TO ARCHITECT'S ATTENTION EXISTING CONDITIONS THAT PRESENT ANY CODE VIOLATIONS, INCORRECT CONSTRUCTION OR SAFETY PROBLEMS.
- 6. MAINTAIN EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) THROUGHOUT CONSTRUCTION. COORDINATE ANY INTERRUPTION TO THESE SYSTEMS WITH THE OWNER AND FIRE MARSHAL. PROVIDE FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE SYSTEMS.
- PROTECT EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT SCHEDULED FOR DEMOLITION. RESTORE DAMAGED ITEMS TO THEIR ORIGINAL CONDITION OR REPLACE AT CONTRACTOR'S EXPENSE.
- 8. REMOVE AND DISPOSE SELECTIVE DEMOLITION MATERIAL PER CITY REQUIREMENTS.
- 9. SALVAGE MATERIAL WHERE INDICATED. REMOVE ITEMS FROM CURRENT LOCATIONS & PREPARE FOR TRANSPORT BY THE OWNER.

### GENERAL PLAN DEMOLITION NOTES

 REFER TO ELECTRICAL AND MECHANICAL PLANS FOR REQUIRED ADDITIONAL DEMOLITION

- 2. MAINTAIN EXISTING FIRE RATINGS THROUGHOUT CONSTRUCTION
- 3. DO NOT DISTURB EXISTING FIRE RATED ELEMENTS INCLUDING FIREPROOFING. PATCH/REPAIR DAMAGED OR DISTURBED ITEMS.
- AFTER DEMOLITION, PRIOR TO FINISH, PATCH AND REPAIR EXISTING WALLS TO PROVIDE SMOOTH SURFACE SUITABLE FOR PAINTING OR WALL COVERING.
- 5. PATCH & LEVEL EXISTING CONCRETE SLABS FOR NEW FINISHES WITH FLOOR LEVELING
- 6. FIELD VERIFY AND COORDINATE SAW CUTTING OF THE CONCRETE FLOOR SLAB WITH
- PLUMBING AND ELECTRICAL.
- 7. REPLACE SLAB AND TRENCH BY COMPACTING CLEAN GRAVEL IN 8 INCH LIFTS. DRILL #4 EPOXY-COATED REBAR INTO EXISTING SLAB @ 12 INCHES OC. POUR SLAB TO PROVIDE A SMOOTH EVEN FLOOR
- 8. WHERE ELECTRICAL CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED, MAKE NECESSARY MODIFICATIONS TO MAINTAIN CIRCUIT INTEGRITY.
- 9. REMOVE ELECTRICAL BOXES BEHIND RELOCATED MILLWORK AND CAP AS REQUIRED.
- 10. CAP EXISTING DUCT WORK FOR DUST CONTROL.

### DEMOLITION LEGEND



HALF-TONE LINE DENOTES ITEMS TO REMAIN

DASHED LINE DENOTES ITEMS TO BE DEMOLISHED

AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION

AREA OF DISTURBANCE DURING CONSTRUCTION (COORDINATE W. OWNER)

AREA OF DEMOLITION WORK (COORDINATE W. OWNER)

ARCHITECTURE

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VCBO.COM



DATE DESCRIPTION

VCBO NUMBER:
DATE: 07/1

- MRI CARING SUITE

BUILDIN

MOUNTAIN HEALTHCARE OUTH COTTONWOOD STREET, MURRAY UT 84

INTERMOUT STATE SOUT STATE STAT

A2 PLAN - LEVEL LL-2 - DEMOLITION - OVERALL

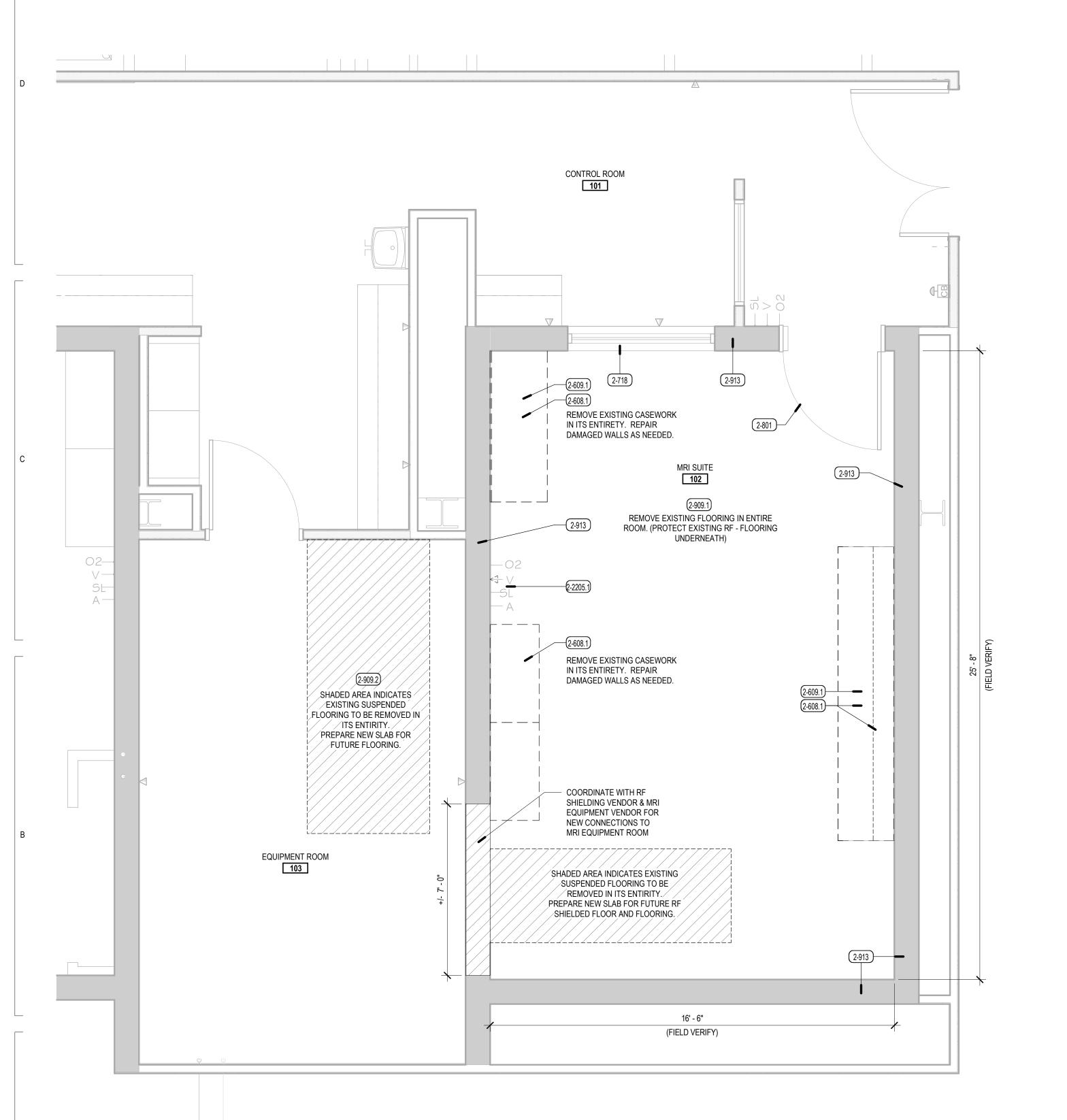
SCALE: 1/8" = 1'-0"



A4 PLAN - LEVEL LL-1 - DEMOLITION - OVERALL

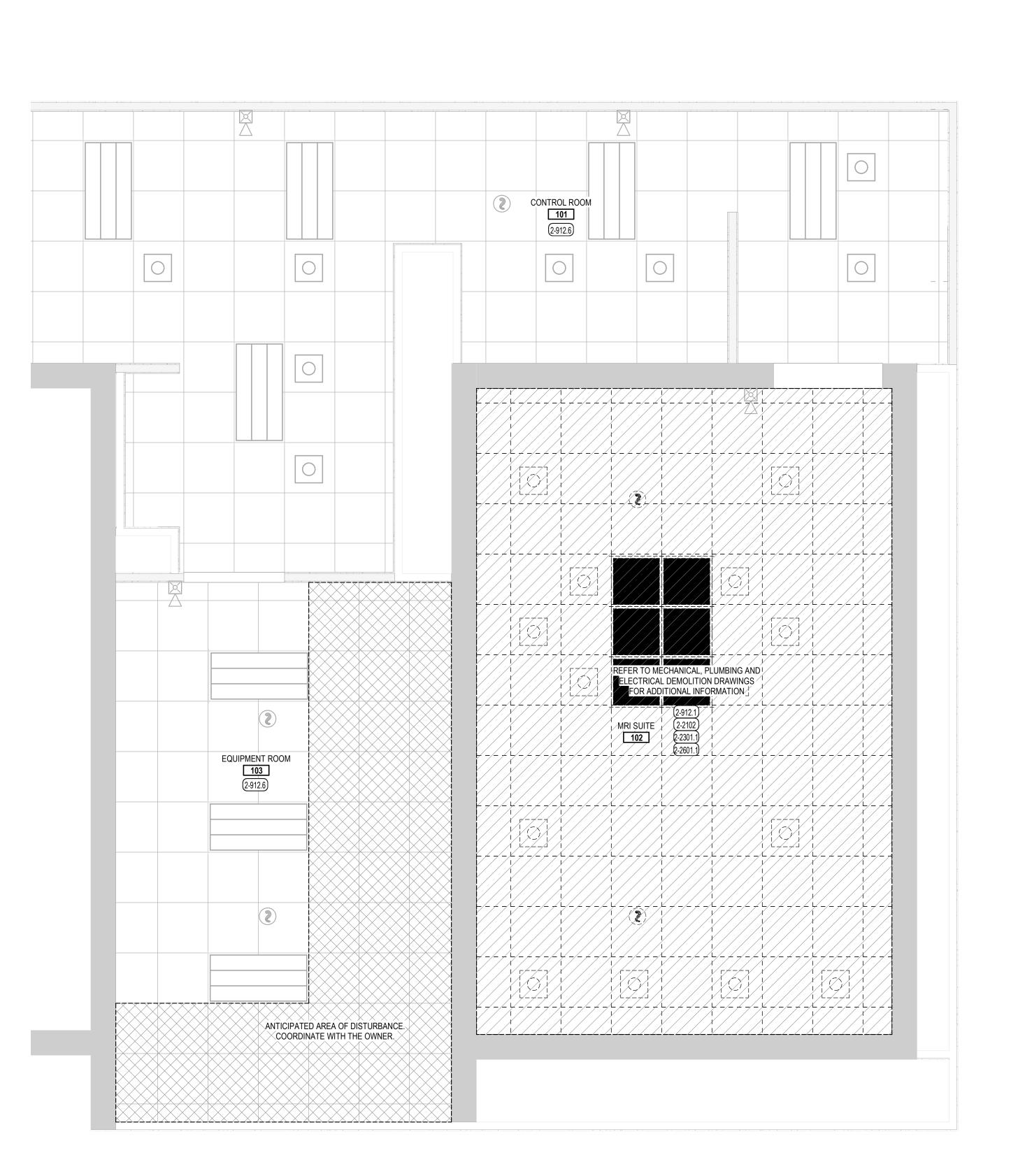
SCALE: 1/8" = 1'-0"





A1 DEMO PLAN - ENLARGED

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



### GENERAL DEMOLITION NOTES

- 1. FIELD VERIFY DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING. BRING DIFFERING DIMENSIONS AND CONDITIONS TO ARCHITECT'S ATTENTION PRIOR TO BIDDING.
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- 4. COORDINATE MAINTENANCE OF FIRE EGRESS FOR OCCUPANTS IN EXISTING BUILDING WITH THE OWNER AND FIRE MARSHAL. PROVIDE NECESSARY TEMPORARY WALLS OR
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ENCLOSURES, EMERGENCY LIGHTS, ETC., FOR THE DURATION OF CONSTRUCTION.

- 6. MAINTAIN EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) THROUGHOUT CONSTRUCTION. COORDINATE ANY INTERRUPTION TO THESE SYSTEMS WITH THE OWNER AND FIRE MARSHAL. PROVIDE FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE SYSTEMS.
- 7. PROTECT EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT SCHEDULED FOR DEMOLITION. RESTORE DAMAGED ITEMS TO THEIR ORIGINAL CONDITION OR REPLACE AT CONTRACTOR'S EXPENSE.
- 8. REMOVE AND DISPOSE SELECTIVE DEMOLITION MATERIAL PER CITY REQUIREMENTS.
- 9. SALVAGE MATERIAL WHERE INDICATED. REMOVE ITEMS FROM CURRENT LOCATIONS & PREPARE FOR TRANSPORT BY THE OWNER.

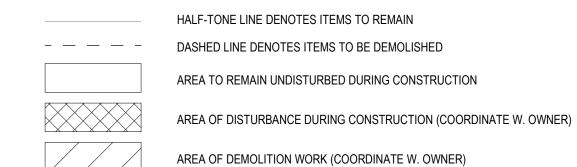
### GENERAL PLAN DEMOLITION NOTES

1. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR REQUIRED ADDITIONAL DEMOLITION

- 2. MAINTAIN EXISTING FIRE RATINGS THROUGHOUT CONSTRUCTION
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- 4. AFTER DEMOLITION, PRIOR TO FINISH, PATCH AND REPAIR EXISTING WALLS TO PROVIDE SMOOTH SURFACE SUITABLE FOR PAINTING OR WALL COVERING.
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- CAP EXISTING DUCT WORK FOR DUST CONTROL.

### **DEMOLITION LEGEND**

COMPOUND.



	KEYED NOTES
KEY VALUE	KEYNOTE TEXT
2-608.1	EXISTING CABINET, REMOVE & DISPOSE IN ITS ENTIRETY
2-609.1	EXISTING COUNTERTOP, REMOVE & DISPOSE IN ITS ENTIRETY
2-718	EXISTING WINDOW HEAD/SILL FLASHING, PROTECT AS NECESSARY
2-801	EXISTING DOOR AND FRAME, PROTECT AS NECESSARY, REPAIR AS REQUIRED
2-909.1	EXISTING FLOORING, REMOVE & DISPOSE IN ITS ENTIRETY
2-909.2	EXISTING FLOORING, REMOVE & DISPOSE AS SHOWN
2-912.1	EXISTING CEILING SYSTEM, REMOVE & DISPOSE IN ITS ENTIRETY
2-912.6	EXISTING ACOUSTICAL CEILING TILE SYSTEM, PROTECT AS NECESSARY, REPAIR AS REQUIRED
2-913	EXISTING STUD WALL FRAME WITH GYPSUM BOARD, PROTECT AS NECESSARY, REPAIR AS REQUIRED
2-2102	EXISTING SPRINKLER HEAD, PROTECT AS NECESSARY, REPAIR AS REQUIRED

EXISTING MEDICAL GAS OUTLETS, TO BE RELOCATED TO NEW LOCATION

2-2301.1 EXISTING MECHANICAL DIFFUSERS, REMOVE & DISPOSE IN ITS ENTIRETY

2-2601.1 EXISTING LIGHTING FIXTURES, REMOVE & DISPOSE IN ITS ENTIRETY





DATE DESCRIPTION









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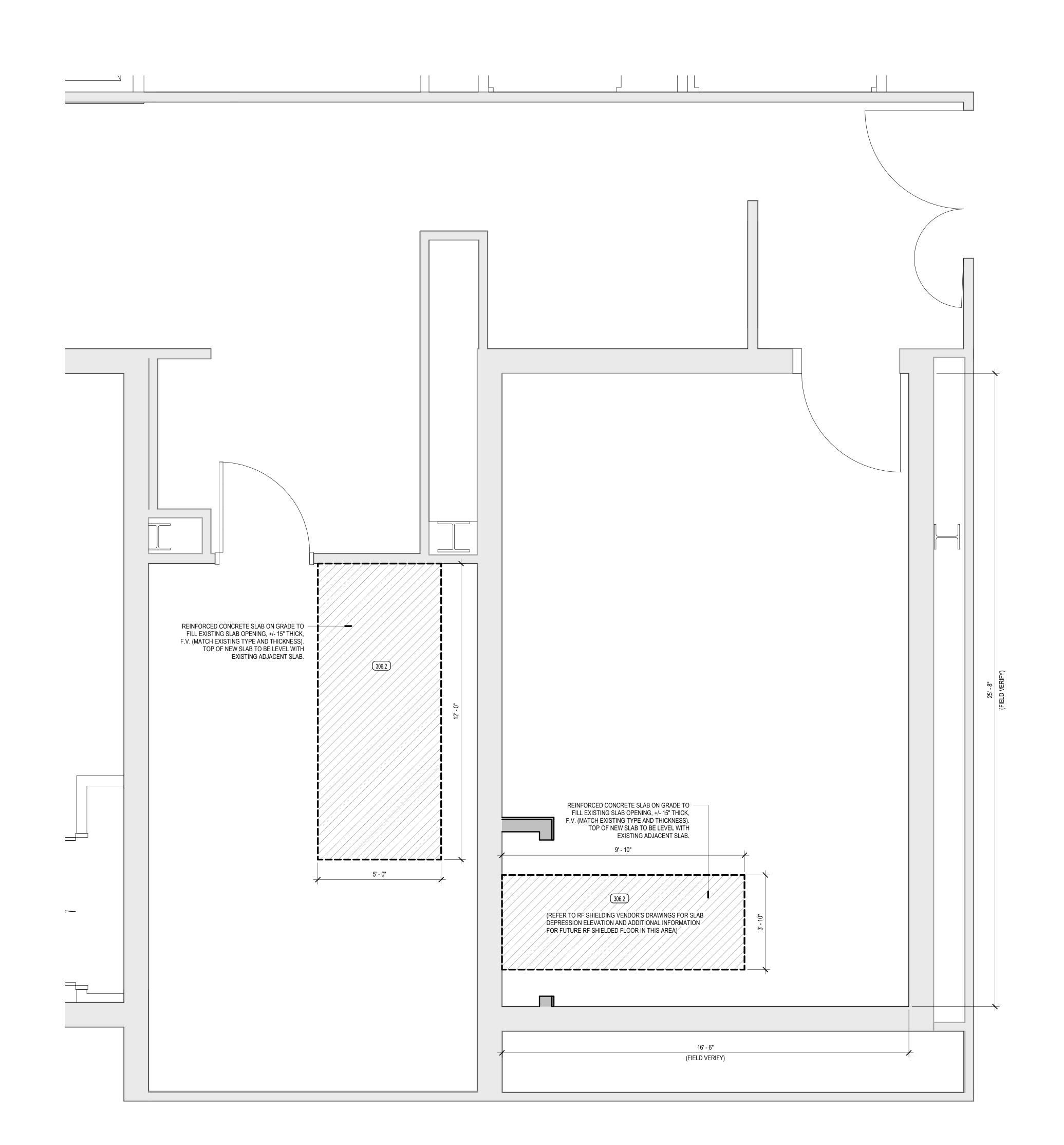
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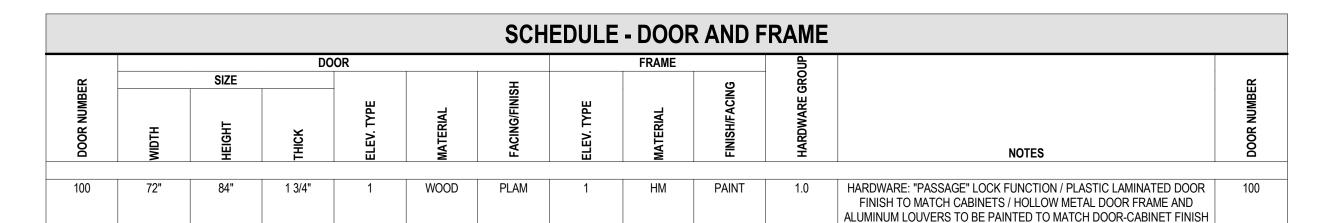
**KEYED NOTES** 

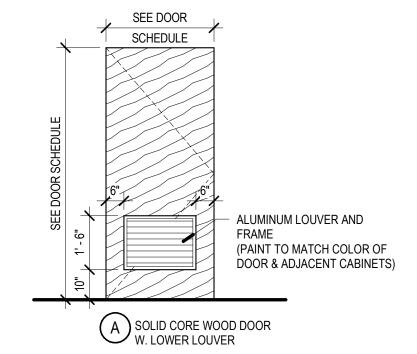
306.2 REINFORCED CONCRETE SLAB ON GRADE, ±15" THICK, TO MATCH EXISTING

KEYNOTE TEXT

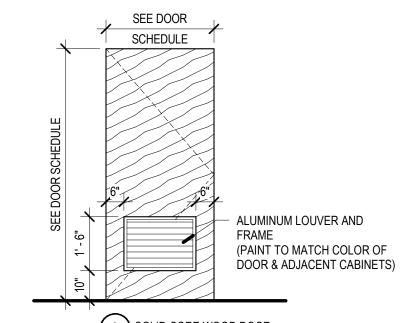
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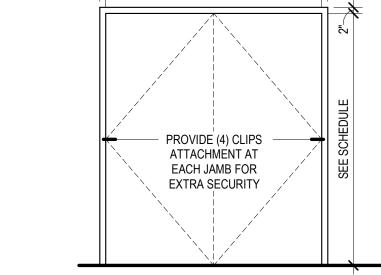












SCHEDULE

1 HOLLOW DOOR FRAME TO BE PAINTED. COLOR TO MATCH DOOR AND ADJACENT CABINETS



### **GENERAL NOTES**

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- 5. CONTRACTOR TO FOLLOW CURRENT ANSI 117-1 STANDARDS AS REPRESENTED ON SHEET G301, GENERAL ACCESSIBILITY GUIDELINES. NOTIFY ARCHITECT IF THE DESIGN DRAWINGS CONFLICT WITH THIS SHEET.

### DIMENSION NOTES

1. ALL DIMENSIONS ARE TO CENTER OF STUD WALL OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. WHERE THE END OF A WALL IS INDICATED THE DIMENSION IS TO THE FINISH SURFACE OF THE WALL END.

- 2. UNLESS DIMENSIONED OTHERWISE, THE DIMENSION FROM THE BUCK OF A DOOR FRAME IS TO BE 4" TO THE WALL CORNER.
- 3. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED

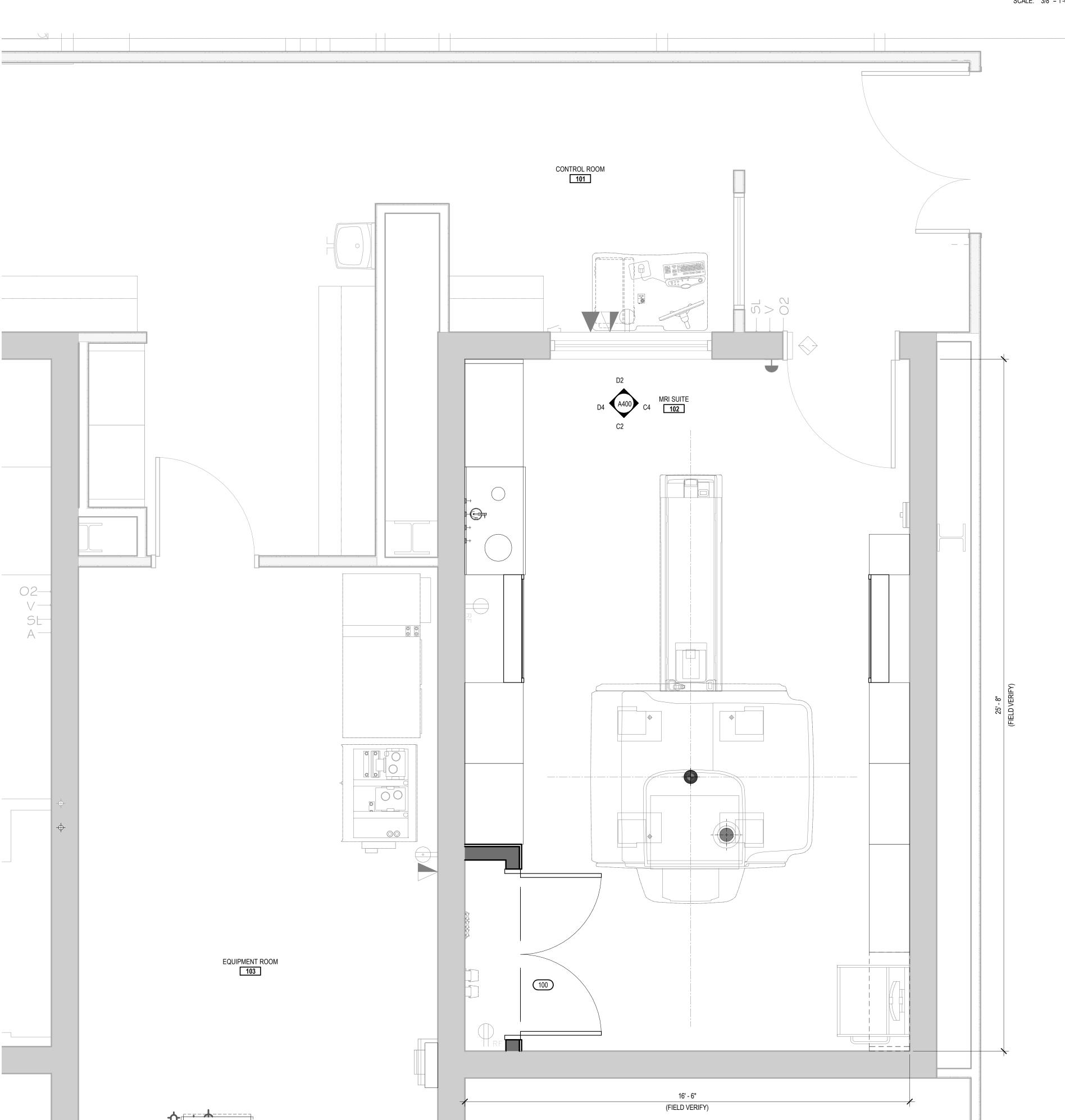
	KEYED NOTES
KEY VALUE	KEYNOTE TEXT

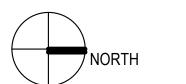


EXISTING MRI SUITE / CONTROL ROOM DOOR



EXISTING MRI ROOM DOOR







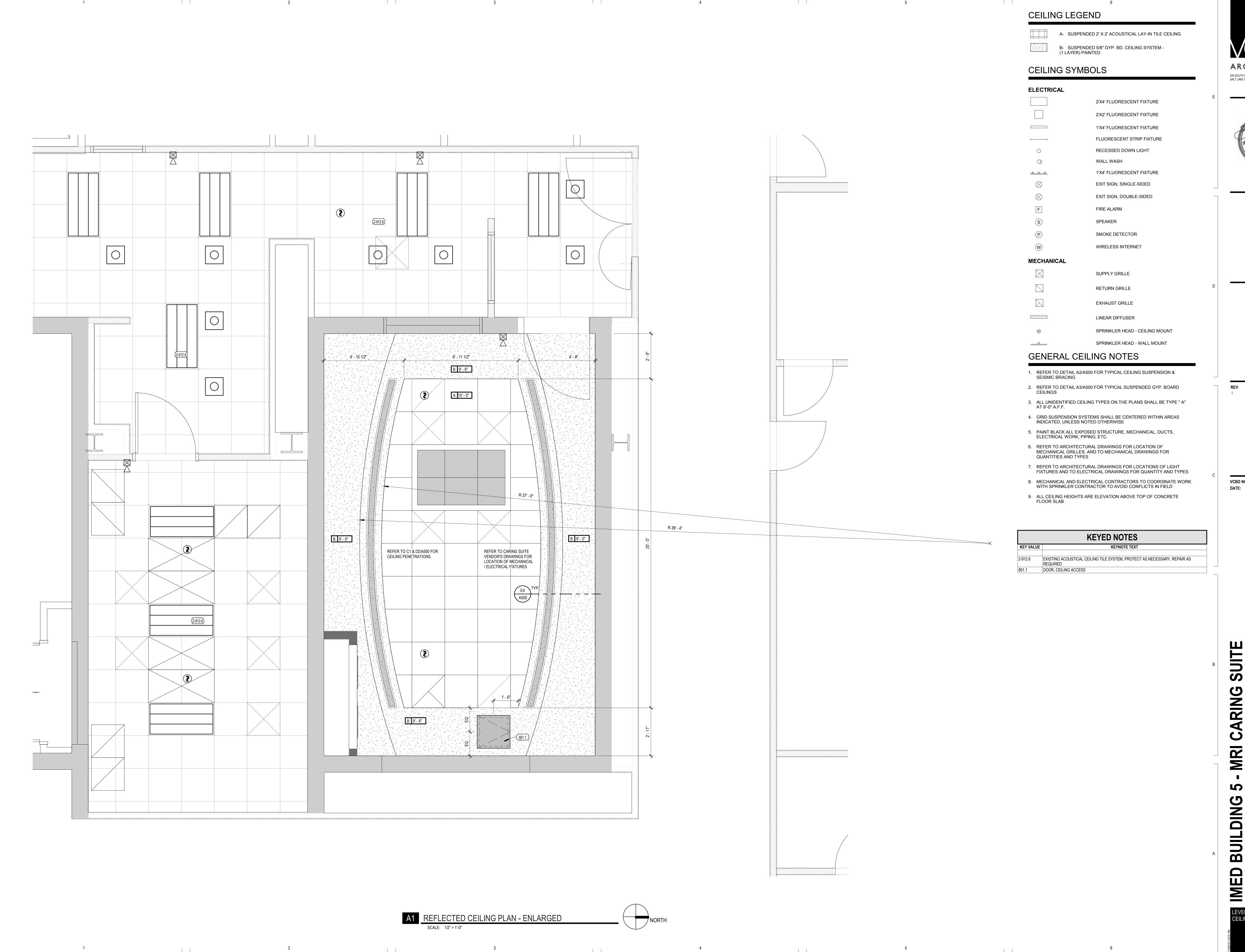


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07/15/2019





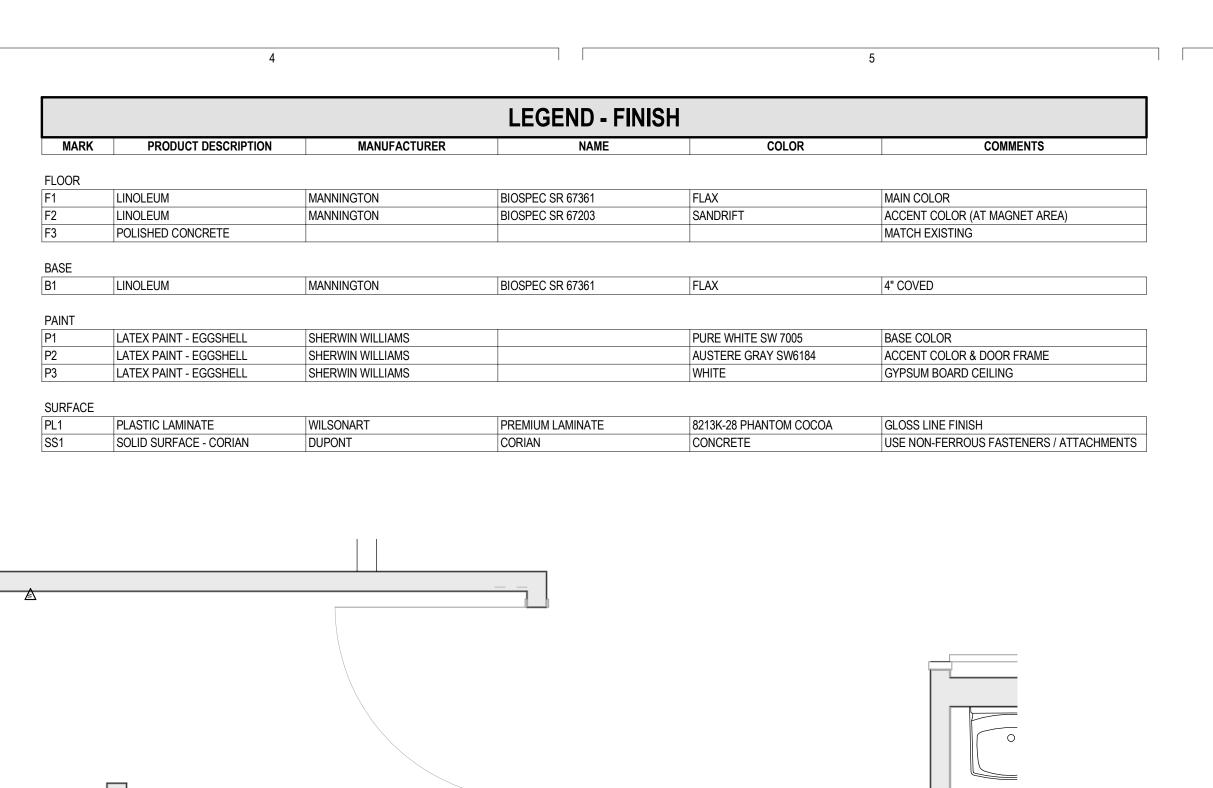
524 SOUTH 600 EAST 801.575.8800 SALT LAKE CITY, UT 84102 VCBO.COM



DATE DESCRIPTION

07/15/2019

LEVEL LL-1 REFLECTED CEILING PLAN - ENLARGED



FLOORING NOTES:

1. GENERAL CONTRACTOR TO PROVIDE FLOOR SEAMS
AS SHOWN IN THIS PLAN.

(ADDITIONAL FLOORING SEAMS DIFFERENT THAT
WHAT IS SHOWN IN THIS PLAN DUE TO THE USE OF
LEFTOVER PIECES OF FLOORING WILL NOT BE

ACCEPTED). 2. COVED BASE TO BE GLUED.

(ALIGN WITH SOFFIT ABOVE)

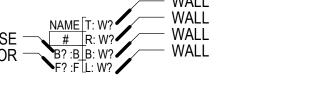
### GENERAL FINISH NOTES

- 1. ALL FLOOR TRANSITIONS TO BE LOCATED AT CENTER OF DOOR, U.N.O.
- 2. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
- 3. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
- 4. AT SOFFITS RECEIVING COLOR- PAINT ALL SIDES OF SOFFIT.
- 5. ALL WOOD TRIM TO BE STAINED TO MATCH DOOR STAIN.
- 6. ALL COUNTERTOP, BACKSPLASHES, AND EDGE BANDING TO HAVE COORDINATING
- 7. PROVIDE A SMOOTH TRANSITION AT ALL FLOOR MATERIALS CONTRACTOR TO INSTALL ALL FLOOR FINISHES AT SAME LEVEL, DESPITE DIFFERENT THICKNESS. PROVIDE FLOOR TRANSITION WHERE OCCURS.
- 8. GYPSUM BOARD SOFFITS TO BE PAINTED WHITE.
- ALL EXPOSED CEILINGS TO BE PAINTED (WHERE OCCURS). REFER TO REFLECTED CEILING PLANS. COORDINATE WITH ARCHITECT FOR PAINT COLOR.

### FINISH PLAN SYMBOLS



524 SOUTH 600 EAST SALT LAKE CITY, UT 84102



SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION

CHANGE AT FLOOR MATERIAL

SIGNAGE TAG- SEE SIGNAGE SHEETS FOR DETAILS

REV DATE DESCRIPTION

07/15/2019

A4 FINISH PLAN - ENLARGED

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

4

(FIELD VERIFY)

FLOOR SEAM LINE

FLOOR SEAM LINE

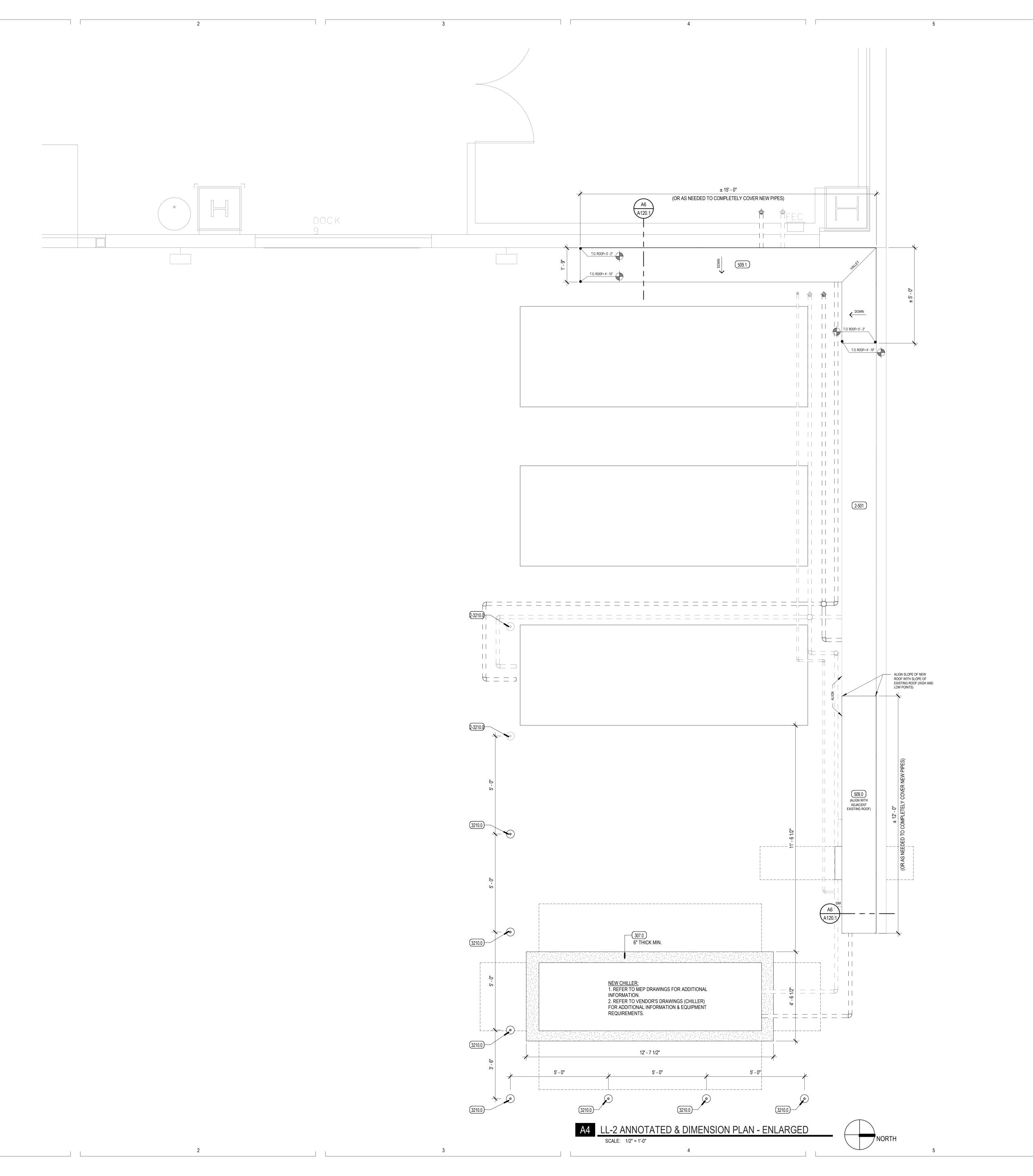
CONTROL ROOM 101

FLOOR SEAM LINE -

(ALIGN WITH SOFFIT ABOVE)

EQUIPMENT ROOM
103

FLOOR SEAM LINE -



### **GENERAL NOTES**

- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.
  - 2. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS, THE CONTRACTOR SHALL ENDEAVOR TO IDENTIFY AND NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT.
- 3. THE ARCHITECTURAL DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL THE TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES. QUANTITIES ARE TO BE PROVIDED AS SHOWN ON DRAWINGS OF OTHER DISCIPLINES BUT LOCATIONS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL PARTS OF THE WORK.
- 4. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN; DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED.
- 5. CONTRACTOR TO FOLLOW CURRENT ANSI 117-1 STANDARDS AS REPRESENTED ON SHEET G301, GENERAL ACCESSIBILITY GUIDELINES. NOTIFY ARCHITECT IF THE DESIGN DRAWINGS CONFLICT WITH THIS SHEET.

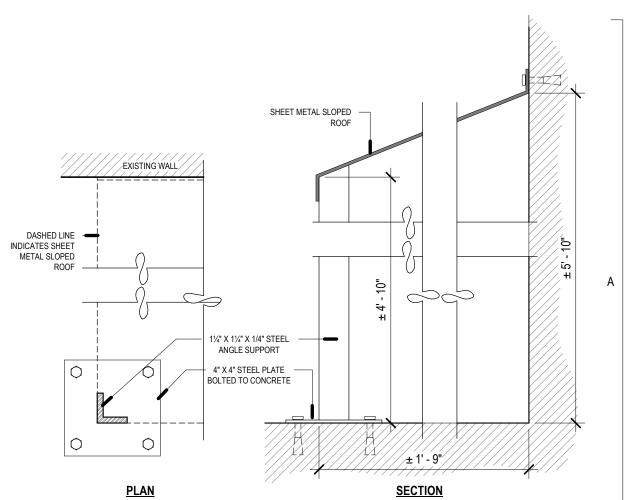
### DIMENSION NOTES

- 1. ALL DIMENSIONS ARE TO CENTER OF STUD WALL OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. WHERE THE END OF A WALL IS INDICATED THE DIMENSION IS TO THE FINISH SURFACE OF THE WALL END.
- 2. UNLESS DIMENSIONED OTHERWISE, THE DIMENSION FROM THE BUCK OF A DOOR FRAME IS TO BE 4" TO THE WALL CORNER.
- 3. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED

KEYED NOTES		
KEY VALUE	KEYNOTE TEXT	
2-501	EXISTING METAL COVER STRUCTURE (SHEET METAL ROOF), PROTECT AS NECESSARY, REPAIR AS REQUIRED	
2-3210.0	EXISTING PIPE BOLLARD, PROTECT AS NECESSARY, REPAIR AS REQUIRED	
307.0	REINFORCED CONCRETE HOUSEKEEPING PAD	
509.0	METAL COVER STRUCTURE, 11/4" X 11/4" GALVANIZED STEEL ANGLE POSTS WITH 4" X 4" BASE PLATE, BOLTED TO CONCRETE SLAB	
509.1	METAL COVER STRUCTURE, 11/4" X 11/4" GALVANIZED STEEL ANGLE POSTS EXTENSIONS, OVERLAP WITH EXISTING POSTS AS NEEDED	
3210.0	PIPE BOLLARD	



EXISTING METAL COVER STRUCTURE



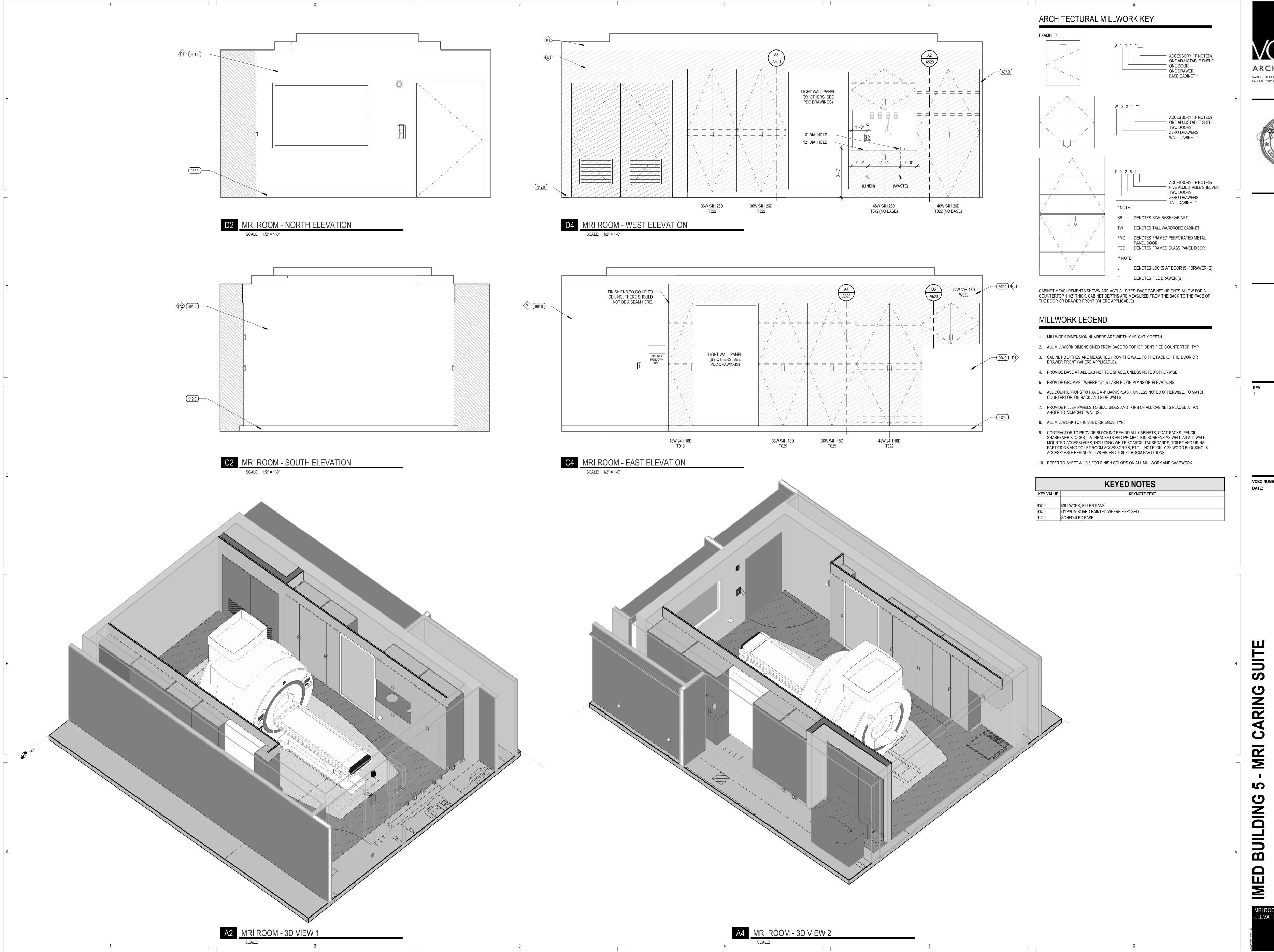
A6 METAL COVER STRUCTURE SCALE: 3" = 1'-0"

524 SOUTH 600 EAST SALT LAKE CITY, UT 84102



REV DATE DESCRIPTION

LEVEL LL-2 ANNOTATED AND DIMENSION PLAN -







DATE DESCRIPTION

07/15/2019

SCALE: NOT TO SCALE

### PARTITION + FRAMING GENERAL NOTES

### FRAMED WALL PARTITIONS

1. PARTITION TYPE INDICATIONS <u>ARE INDEPENDENT</u> OF APPLIED FINISHES. SEE FINISH SHEETS AND INTERIOR ELEVATIONS FOR WALL FINISHES INCLUDING TILE COURSING AND LAYOUT AND/OR THE DESIGNATIONS ON THE PLANS FOR ADDITIONAL INFORMATION REGARDING APPLIED FINISHES.

2. WHERE PARTITION TYPE DESIGNATION ON FLOOR PLANS IS INTERRUPTED BY DOOR OPENING. GLAZED PARTITION, ETC., CONSTRUCTION ABOVE INTERRUPTION (AND WHERE APPLICABLE BELOW) IS TO BE THE SAME AS THAT DESIGNATED FOR THE PARTITION IN WHICH THE INTERRUPTION

3. THE MINIMUM REQUIREMENTS FOR CONSTRUCTION OF EACH PARTITION TYPE AS EXPRESSED BY THE INDICATED REFERENCE ARE INCORPORATED BY REFERENCE AND ARE APPLICABLE TO THE WORK OF THIS PROJECT. HOWEVER, ADDITIONAL AND/OR MORE RESTRICTIVE REQUIREMENTS MAY BE INDICATED BY THE SPECIFICATIONS AND DRAWINGS. SUCH REQUIREMENTS ALSO APPLY AND

SHALL GOVERN. SUCH REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO: a. USE 5/8" THICK GYPSUM BOARD THROUGHOUT UNLESS NOTED OTHERWISE.

b. USE 16" OC MAX STUD SPACING UNLESS NOTED OTHERWISE IN THESE DOCUMENTS. THE SPACING STATED BY THE REFERENCED APPROVAL OR EST REPORT IS THE MAX SPACING IF ALLOWED IN THESE DOCUMENTS. c. USE STUDS OF GAUGE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS. THE GAUGE STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM GAUGE TESTED, 20

4. USE STUDS OF DEPTH INDICATED BY THIS SET OF DOCUMENTS. THE DEPTH STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM DEPTH TESTED DEPTH ALLOWED IN THESE DOCUMENTS. SEE STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION PERTAINING TO THE CONSTRUCTION OF CONCRETE, MASONRY AND STUD WALLS

5. PROVIDE FIRE RATED CONSTRUCTION ASSEMBLIES WHERE INDICATED ON SHEETS G100's AND FLOOR PLAN DRAWINGS.

6. ALL DIMENSIONS ARE CENTER OF STUD OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. FACE OF FINISHED WALL WILL BE NOTED AS FOW.

7. AT ALL INTERIOR WALLS, STUDS, INSULATION AND GYPSUM BOARD ARE TO EXTEND TO THE DECK ABOVE. UNLESS NOTED OTHERWISE.

8. WALL TYPES NOT NOTED ARE ASSUMED TO MATCH ADJACENT ROOMS. SEE SHEETS FOR FINISHES, NOTIFY ARCHITECT OF ANY DISCREPANCIES.

9. ALL METAL STUD PARTITIONS ARE CONSIDERED ACOUSTIC PARTITIONS AND ARE TO RECEIVE A TYPE 1 SOUND ATTENUATION BLANKET. THICKNESS TO MATCH STUD DEPTH, UNLESS NOTED

10. REFER TO SHEET <u>AXXX</u> FOR TYPICAL INTERIOR WALL CONDITIONS ASSOCIATED WITH ALL METAL STUD PARTITIONS.

11. PROVIDE CONTROL JOINTS IN METAL FRAMED WALLS AT APPROXIMATELY 30 FEET ON CENTER. LOCATE AT CORNER ABOVE DOORS OR INSIDE CORNER OF PILASTERS OR OTHER INCONSPICUOUS LOCATION WHERE POSSIBLE. CONSULT WITH ARCHITECT PRIOR TO COMMENCING FRAMING. INSTALL PER DETAILS XX, XX AND XX/ AXXX FOR CONTROL JOINTS.

12. AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC., GYPSUM BOARD IS TO BE CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND THE GAP BETWEEN THE OBJECT AND THE WALL IS TO BE SEALED W/ ACOUSTICAL OR FIRE SEALANT ON ALL SIDES WITH A 3/4" JOINT AT ALL SIDES, MAXIMUM. THE OPENING FOR DUCTS OR LARGE PENETRATIONS SHALL BE FRAMED WITH A HEADER, ADD AN ANGLED CORNER BRACE IF THE GAP EXCEEDS 3" FROM FRAMING TO THE OPENING.

13. PROVIDE BLOCKING / BACKING FOR ALL WALL MOUNTED EQUIPMENT. SEE FLOOR PLANS AND INTERIOR ELEVATIONS FOR CABINETS, GRAB BARS ETC. INSTALL BLOCKING AS DETAILED OR AS REQUIRED TO MOUNT SUCH DEVICES. ALL BLOCKING IS TO BE FIRE RETARDANT TREATED. INSTALL

14. WHERE THERE IS LIMITED WATER EXPOSURE: INSTALL ONE LAYER OF 5/8" TYPE X WATER RESISTANT GYPSUM BOARD PER ASTM C1396 (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION AT THE FOLLOWING LOCATIONS:

a. WITHIN 2 FEET HORIZONTALLY AND 4 FEET VERTICALLY OF JANITORS SINKS b. AT OTHER LOCATIONS, I.E. TOILET ROOMS AND KITCHENS, AND AS INDICATED ON THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS.

15. INSTALL ONE LAYER OF 5/8" GLASS MAT TILE BACKER BOARD IN LIEU OF GYPSUM BOARD (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION WHERE THERE IS NO FIRE RATING AND OVER GYPSUM BOARD FACE LAYER AT FIRE RATED PARTITIONS AT THE FOLLOWING LOCATIONS.

16. AT WET LOCATIONS, SUCH AS SHOWER STALLS AND TUB SURROUNDS.

a. WHERE CERAMIC TILE FINISHES ARE INDICATED PER THE FINISH PLANS AND/OR INTERIOR ELEVATIONS.

b. AT OTHER LOCATIONS AS INDICATED BY THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS. 17. WHERE NEW WALLS OR FURRING ARE INDICATED TO BE DIMENSIONED OFF OF AN EXISTING WALL, THE NEW WALL SHALL BE STRAIGHT AND PLUMB REGARDLESS OF THE CONDITION OF THE EXISTING

18. ALL EXTERIOR STUD WALLS TO HAVE CONTINUOUS INSULATION, VAPOR BARRIER AND AIR

INFILTRATION BARRIER FOR THE FULL HEIGHT AND LENGTH OF THE WALL, SEAL ALL PENETRATIONS. SEE DETAILS ON SHEET AXXX FOR TYPICAL TOP OF WALL CONDITION 19. THE AIR INFILTRATION BARRIER IS TO WRAP INTO ALL WINDOW AND DOOR OPENINGS.

20. SEE DETAIL XX AND XX ON SHEET AXXX FOR TYPICAL FIRE EXTINGUISHER CABINET INSTALLATION

### **MASONRY OR CONCRETE WALLS**

SEE STRUCTURAL PLANS FOR ADDITIONAL CONCRETE AND MASONRY WALL INFORMATION.

2. SEE EXTERIOR ELEVATIONS FOR COURSING, MASONRY TYPES AND METAL PANEL ORIENTATION PER XX ELEVATION SHEETS.

3. ALL MASONRY WALLS ARE TO BE REINFORCED AND ARE TO BE SET ON REINFORCED FOOTINGS. SEE THE XX ELEVATION SHEETS FOR LOCATION OF CONTROL JOINTS. WHERE NOT NOTED, CONTROL JOINTS TO BE LOCATED AS PER THE REQUIREMENTS FOUND IN THE STRUCTURAL DOCUMENTS BUT ARE NOT TO EXCEED 30' OC. SEE THE STRUCTURAL DRAWINGS FOR REINFORCING AND OTHER DETAILS PERTAINING TO MASONRY WALLS. IF NOT OTHERWISE NOTED, LOCATE CONTROL JOINTS AT CORNER ABOVE DOORS, INSIDE CORNER OF PILASTERS OR OTHER INCONSPICUOUS LOCATION WHERE POSSIBLE. CONSULT WITH ARCHITECT PRIOR TO INSTALLING PER DETAIL XX/ AXXX.

4. SEE IBC 2009, CHAPTER 7 FOR FIRE RESISTIVE REQUIREMENTS ON NEW CONCRETE AND CONCRETE MASONRY UNIT WALLS.

 CMU WALLS (IBC TABLE 720.1(2), ITEM 3) CAST IN PLACE CONCRETE WALLS (IBC TABLE 721.2.1.2(1))

5. REFER TO DETAIL SHEET AXXX FOR TYPICAL WALL CONDITIONS ASSOCIATED WITH ALL AND MASONRY PARTITIONS.

6. AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC., MASONRY IS TO BE CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND THE GAP BETWEEN THE OBJECT AND THE WALL IS TO BE SEALED W/ ACOUSTICAL OR FIRE SEALANT ON ALL SIDES WITH A 3/4" JOINT AT ALL SIDES, MAXIMUM.

PROTECTION OF MASONRY: DURING CONSTRUCTION, COVER TOPS OF WALLS, PROJECTIONS, AND SILLS WITH WATERPROOF SHEETING AT END OF EACH DAY'S WORK, EXCEPT WHEN THE AMBIENT B TEMPERATURE IS EXPECTED TO REMAIN ABOVE 65 DEG F AND NO PRECIPITATION IS FORECAST FOR THE NEXT 24 HOURS. (THIS IS TO PREVENT CONDENSATION FROM COVERED WALLS CAUSING A MOISTURE PROBLEM.) COVER PARTIALLY COMPLETED MASONRY EACH DAY THAT CONSTRUCTION IS NOT IN PROGRESS. WALLS ARE TO BE PROTECTED UNTIL THEY ARE PERMANENTLY PROTECTED BY THE ROOFING MEMBRANE OVER THE CAP PLATE. THE GENERAL CONTRACTOR IS TO PROVIDE TEMPORARY PROTECTION IMMEDIATELY FOLLOWING THE TOPPING OUT OF EACH SECTION OF WALL BY INSTALLING WATERPROOF SHEETING OVER A CONTINUOUS CAP PLATE UNTIL THE ROOFING MEMBRANE IS INSTALLED. A SOLID GROUTED TOP BOND BEAM SHALL NOT BE CONSIDERED ADEQUATE PROTECTION FOR THE WALL.

8. IT IS ACCEPTABLE TO PLACE NON-INTEGRAL COLORED CMU IN PORTIONS OF WALLS INDICATED TO BE CONSTRUCTED OF INTEGRAL COLOR CMU IF THE DOCUMENTS SHOW THESE PORTIONS OF WALL PAINTED OR COVERED WITH TILE, STUD FURRING, ABOVE CEILINGS OR UNDER ROOFING MEMBRANE. IT IS NOT ACCEPTABLE TO UTILIZE NON INTEGRAL COLORED CMU BEHIND CABINETS. FURNISHINGS AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CLIMBING WALLS AND LOCKERS.

9. AT ALL SPLIT FACE AND PAINTED CMU THE HORIZONTAL AND VERTICAL MORTAR JOINTS ARE TO BE CONCAVE. AT ALL HONED BLOCK THE HORIZONTAL MORTAR JOINT IS TO BE A WEATHERED JOINT AND ALL VERTICAL JOINTS ARE TO BE RAKED.

10. PROVIDE A 3/4" CHAMFER ALL INTERIOR EXPOSED VERTICAL MASONRY CORNERS FROM 8" AFF TO BOTTOM OF MASONRY LINTEL OR IF NO LINTEL EXISTS, STOP CHAMFER @ FIRST MASONRY JOINT BELOW CEILING. NOTE THAT THIS CHAMFER IS NOT TO BE PROVIDED AT CORNERS SHOWN IN THESE DOCUMENTS AS COVERED WITH WALL TILE. SEE DETAIL

11. PROVIDE SPECIAL SHAPES, SUCH AS "U" SHAPED CHANNEL FOR LINTELS OR HEADERS AND CAPPING UNITS FOR SASH AND OTHER SPECIAL CONDITIONS.

12. WHERE SPLIT FACE BLOCK IS SHOWN EXTENDING TO THE TOP OF A PARAPET, PROVIDE AN INTEGRAL COLOR SMOOTH FACE BLOCK AT THE TOP COURSE TO ALLOW THE CAP FLASHING TO FIT TIGHT AGAINST THE WALL.

13. CONTRACTOR TO COORDINATE AND PROVIDE SMOOTH MASONRY AT ALL FLASHING, REGLETS, GUTTERS, EDGES OF CEILING AND BASE AND OTHER ITEMS REQUIRING A SMOOTH FINISH THAT ARE HIDDEN. AT VISIBLE LOCATIONS SUCH AS DOOR AND WINDOW FRAMES, PERPENDICULAR WALLS, GRIND SPLIT FACED BLOCK PER DETAIL XX/ AXXX.

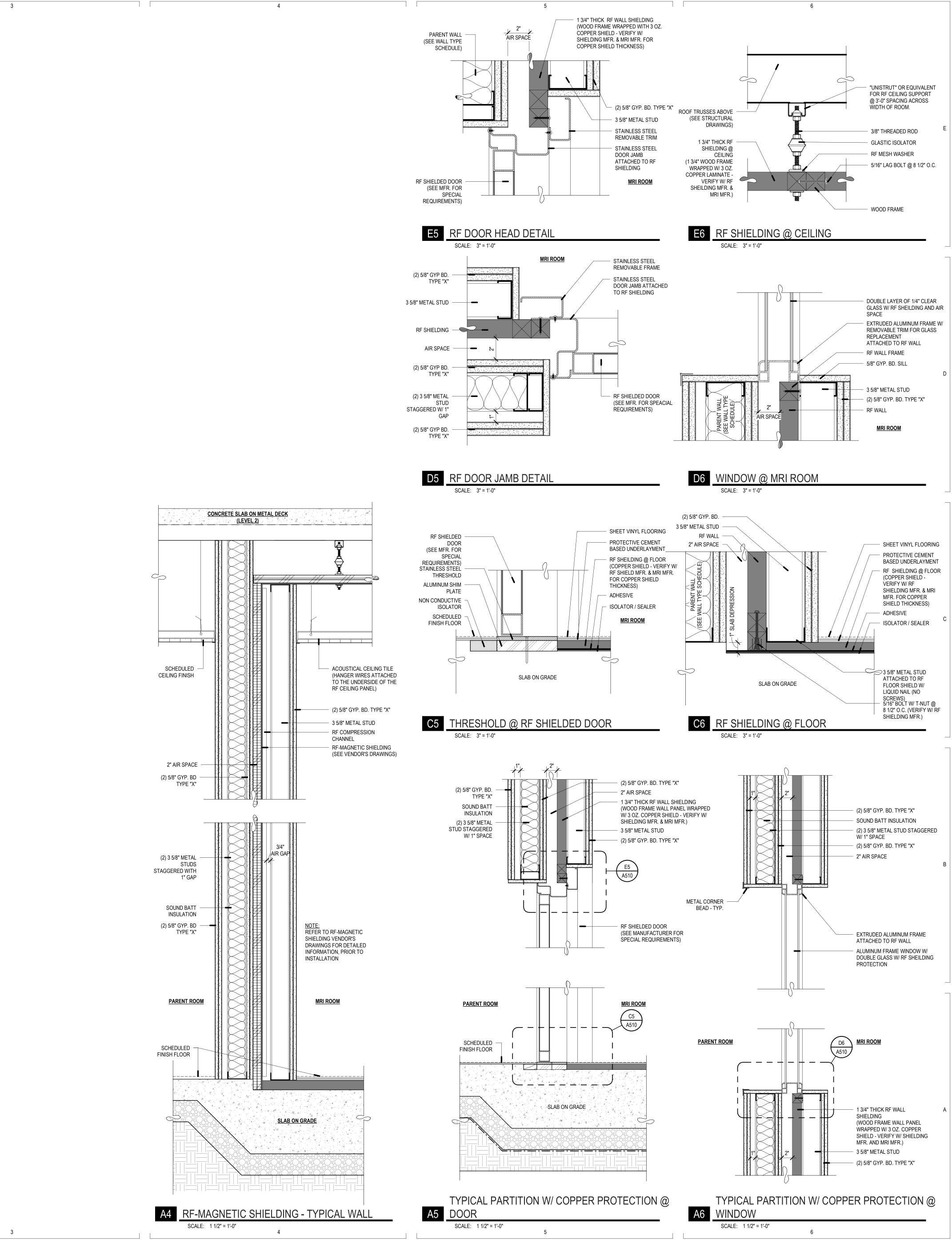
SALT LAKE CITY, UT 84102

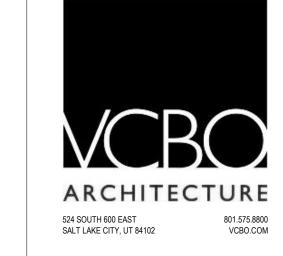


DATE DESCRIPTION

07/15/2019

NTERIOR FRAMING & CEILING DETAILS









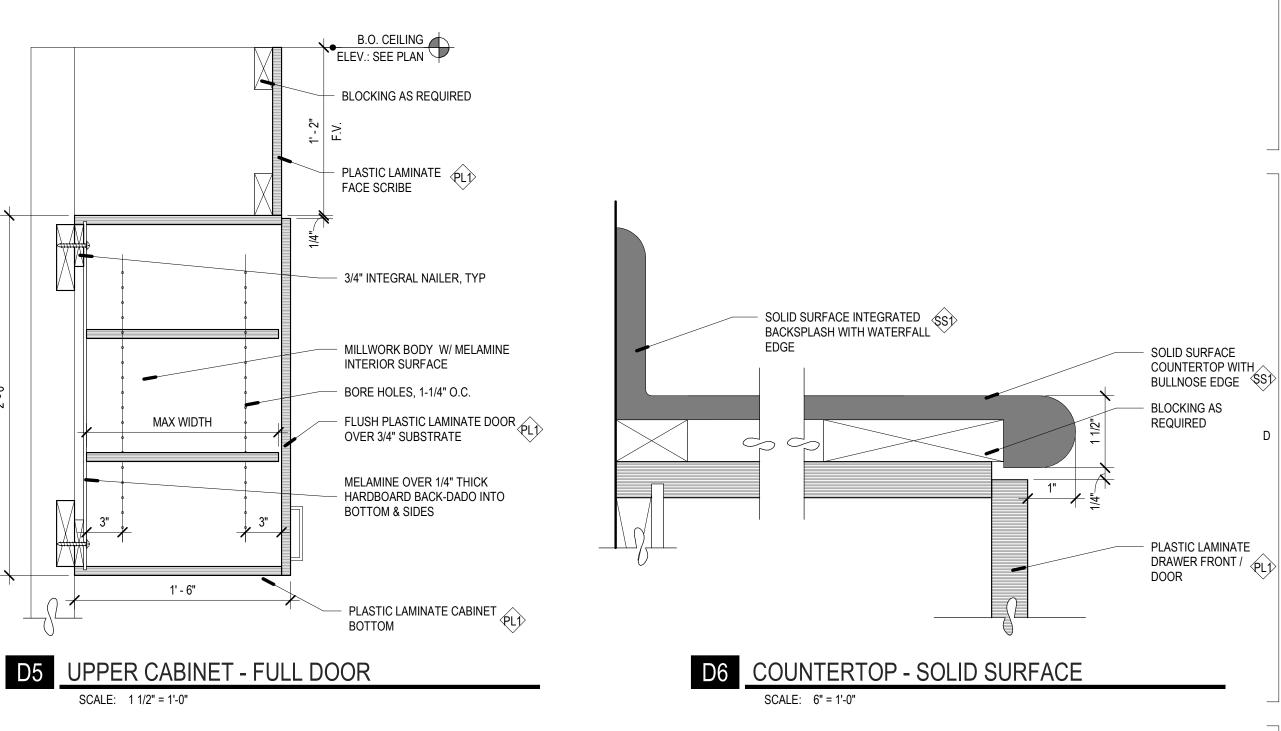
REV DATE DESCRIPTION

DATE: 07/15/2019

SUITE ARING C M BUILDIN

IMED RF-MAGNETIC SHIELDING **DETAILS** A510

NOTES: 1. ALL METAL COMPONENTS MUST BE NON FERROUS METAL. ARCHITECTURE 2. REFER TO PDC DRAWINGS FOR ADDITIONAL 524 SOUTH 600 EAST SALT LAKE CITY, UT 84102 INFORMATION.



B.O. CEILING ELEV.: SEE PLAN

FACE SCRIBE

2' - 2"

ADJUSTABLE

FIXED

A2 TALL CABINET - T022 NO BASE

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

BLOCKING AS REQUIRED

+ PLASTIC LAMINATE PLT

CONT IN WALL 2x6 WOOD BLOCKING

OR 6"x16 GA METAL BACKING

WALL, SEE PLANS FOR TYPE

3/4" INTEGRAL NAILER, TYP

DOORS - PLASTIC LAMINATE

OVER 3/4" THICK SUBSTRATE, TYP

PROVIDE CUT OUT IN BACK OF

- CABINET BOX-TOPS & ENDS CONSTRUCTED USING EITHER

INTERIOR SURFACES COVERED

STOP DADOS OR DOWELS,

IN WHITE MELAMINE

CABINET FOR ELECTRICAL

OUTLET. FIELD VERIFY.

CABINET PULL

- MELAMINE OVER 1/4" THICK BACK

- BACK IS SIDE & BOTTOM BOUND

PRIMED BEHIND CABINET

B.O. CEILING ELEV.: SEE PLAN

BLOCKING AS REQUIRED

PLASTIC LAMINATE PLT

CONT IN WALL 2x6 WOOD BLOCKING

MELAMINE OVER 1/4" THICK BACK

- BACK IS SIDE & BOTTOM BOUND

- 3/4" INTEGRAL NAILER, TYP

DOORS - PLASTIC LAMINATE

- PULLOUT DRAWER W/ 150LB

FULL EXTENSION DRAWER

- CABINET BOX-TOPS, ENDS &

EITHER STOP DADOS OR

BLOCKING AS REQUIRED

SCHEDULED BASE

BOTTOMS CONSTRUCTED USING

DOWELS, INTERIOR SURFACES

COVERED IN WHITE MELAMINE

SLIDES, TYP.

OVER 3/4" THICK SUBSTRATE, TYP

CABINET PULL

OR 6"x16 GA METAL BACKING

FACE SCRIBE

SEE PLANS

A3 TALL CABINET - T322

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

B.O. CEILING ELEV.: SEE PLAN

BLOCKING AS REQUIRED

PLASTIC LAMINATE PLT

CONT IN WALL 2x6 WOOD BLOCKING

- MELAMINE OVER 1/4" THICK BACK

- BACK IS SIDE & BOTTOM BOUND

- 3/4" INTEGRAL NAILER, TYP

- DOORS - PLASTIC LAMINATE

OVER 3/4" THICK SUBSTRATE, TYP

- CABINET BOX-TOPS, ENDS & BOTTOMS CONSTRUCTED USING

EITHER STOP DADOS OR

BLOCKING AS REQUIRED

SCHEDULED BASE

DOWELS, INTERIOR SURFACES

COVERED IN WHITE MELAMINE

- PULLOUT DRAWER W/ 150LB

FULL EXTENSION DRAWER

SLIDES, TYP.

CABINET PULL

OR 6"x16 GA METAL BACKING

SEE PLANS

ADJUSTABLE

ADJUSTABLE

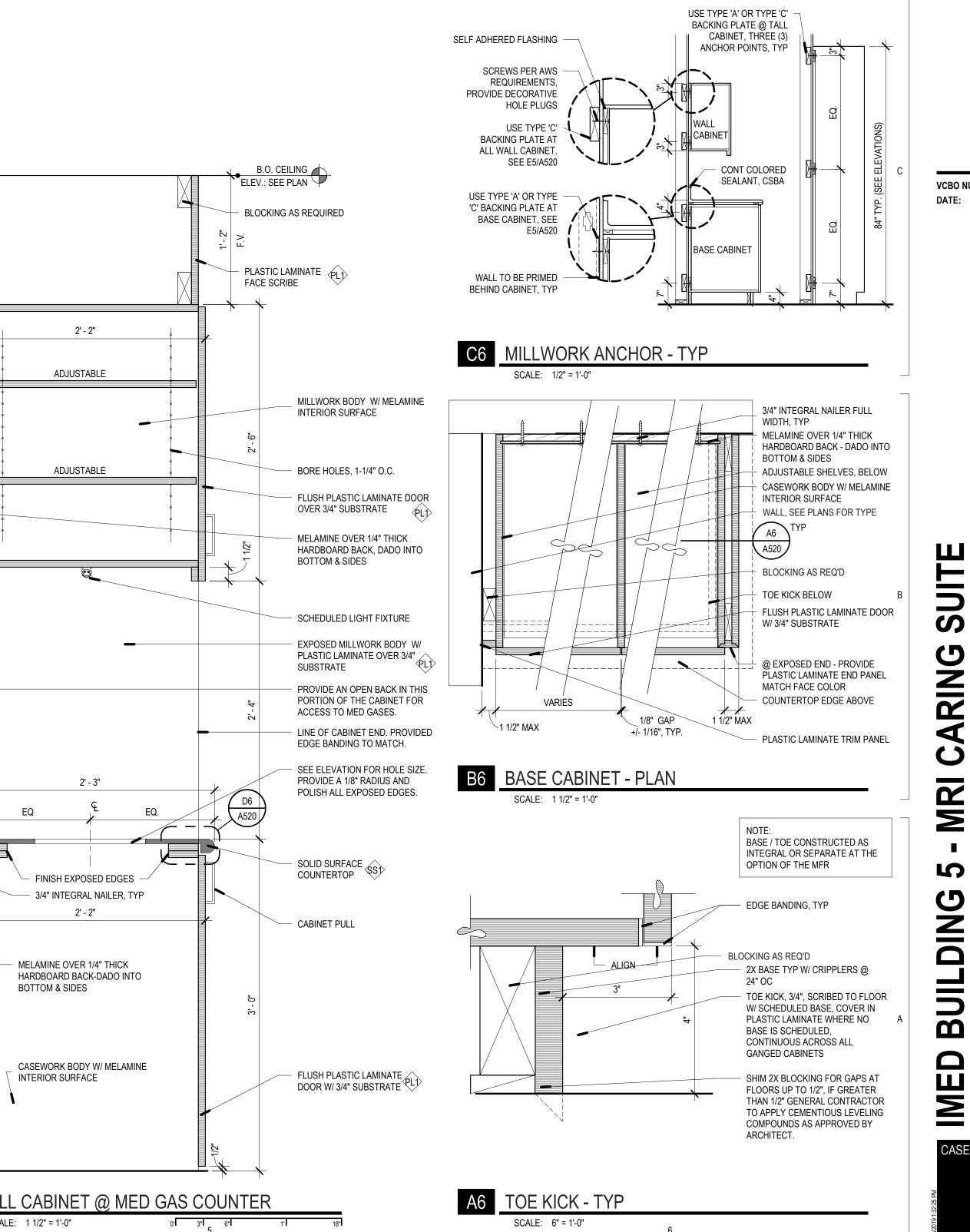
FIXED

ADJUSTABLE

ADJUSTABLE

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

FACE SCRIBE





DATE DESCRIPTION REV

07/15/2019

ARING C

**CASEWORK DETAILS** 

A520

### LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

**LINETYPES** 

———AV ———

——AW——

——BBD——

——BF ——

<u>——В</u>——

——C02——

—— CA——

\_\_\_\_\_CF\_\_\_\_

——CHWS——

——CHWR——

\_\_\_\_\_CS\_\_\_\_

——CR——

—— DI ——

——DIR——

——E(NAME) ——

 $\longrightarrow$  (NAME) $\longrightarrow$ 

——GHR ——

——G(NAME) ——

——FOR ——

——FOS ——

——FOV——

——FVS ——

—— G ——

——HG ——

——HFR——

——HFS——

—— HP(NAME) —

——HPC ——

——HPS——

—— HWR ——

—— HWS ——

——IA ——

——IA 120——

——ICW ——

-----IHW -----

——IHWR——

——ISCW——

——LA——

\_\_\_\_LV\_\_\_\_

——LPC ——

——LPG——

——— LW ———

——LWR——

——MA ——

——MA 120 ——

——MPC ——

——MPS ——

ACID VENT

ACID WASTE

**BOILER BLOW DOWN** 

**BOILER FEED WATER** 

CARBON DIOXIDE

COMPRESSED AIR

CHEMICAL FEED

CHILLED WATER SUPPLY

CHILLED WATER RETURN

CONDENSER WATER SUPPLY

CONDENSER WATER RETURN

DOMESTIC COLD WATER (DCW)

DOMESTIC HOT WATER (DHW)

DOMESTIC HOT WATER RETURN

DEIONIZED WATER SUPPLY

DEIONIZED WATER RETURN

**EXISTING PIPING** 

REMOVED

EXISTING PIPING TO BE

GLYCOL PIPING SOLUTION

FUEL OIL RETURN

FUEL OIL SUPPLY

**FUEL OIL VENT** 

NATURAL GAS

**HOT GAS** 

FLUSH VALVE SUPPLY

HELICOPTER FUEL RETURN

HELICOPTER FUEL SUPPLY

HIGH PRESSURE DOMESTIC WATER

HIGH PRESSURE CONDENSATE

HEATING HOT WATER RETURN

HEATING HOT WATER SUPPLY

INSTRUMENT AIR AT PRESSURE

INDUSTRIAL HOT WATER RETURN

INDUSTRIAL SOFT COLD WATER

LOW PRESSURE CONDENSATE

LIQUIFIED PETROLEUM GAS

LOW PRESSURE STEAM

LAB WATER RETURN

MEDICAL AIR AT PRESSURE INDICATED

MEDIUM PRESSURE CONDENSATE

MEDIUM PRESSURE STEAM

INDUSTRIAL COLD WATER

INDUSTRIAL HOT WATER

LAB AIR

LAB VACUUM

LAB WATER

MEDICAL AIR

INSTRUMENT AIR

HIGH PRESSURE STEAM

GLYCOL HEAT RECOVERY PIPING

				LEGEND OF MECHAN
TWORK/GI	RILLES		<u>PIPING</u>	
	POSITIVE PRESSURE DUCT - RISE	-	—>>	SHUT OFF VALVE
	POSITIVE PRESSURE DUCT - DROP	[-		BALL VALVE
	NEGATIVE PRESSURE DUCT - RISE	-	——————————————————————————————————————	BUTTERFLY VALVE
	NEGATIVE PRESSURE DUCT - DROP	-		MOTOR OPERATED BUTTERFLY VALVE
2	ROUND DUCT - RISE	-	—————————————————————————————————————	GATE VALVE
7	ROUND DUCT - DROP	-	<u></u>	GATE VALVE - NON RISING STEM
<b>*</b>	UNDER FLOOR DUCT	-		ANGLE VALVE
[cc]	TURNING VANES	-		GLOBE VALVE
1-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\	FRESH AIR LOUVER	-	─────────────────────────────────────	PLUG VALVE
<u> </u>	WIDTH X HEIGHT  O.A. LOUVER	-		SHUT OFF PLUG VALVE FOR
	RELIEF AIR OR EXHAUST AIR LOUVER	-	—————————————————————————————————————	FOR USE WITH PRESSURE GAUGE CHECK VALVE
	WIDTH X HEIGHT  R.A. LOUVER	-		LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE END WITH CAP WHERE DISCHARGE
12/12 CD-1	CEILING SUPPLY DIFFUSER	-	**	IS NOT PIPED TO DRAIN  F&T=FLOAT & THERMOSTATIC
(2) 200 12/12 RG-1	CEILING GOTT ET BILT GOER CEILING RETURN REGISTER		RPBP——	REDUCED PRESSURE BACKFLOW
(2) 200 12/12 EG-1	CEILING EXHAUST REGISTER,			PREVENTOR W/ DRAIN PAN  PRESSURE REDUCING VALVE EXTERNAL PRESSURE
(2) 200 12/12 SWS-1	RETURN CFM IS NOT SHOWN) FIGURES	S INDICATE ZE AND TYPE.		PRESSURE REDUCING VALVE SELF CONTAINED
(2) 200	REGISTER  SIDEWALL EXHAUST OR  BOTTOM FIGURE II	·		
(2) 200 12/12 CD-1		TY AND CFM.		ATC - 2 WAY VALVE
(2) 200	WITH FLEXIBLE DUCT CEILING AIR GRILLE WITH	-		ATC - 3 WAY VALVE
12/12 RG-1 (2) 200	FLEXIBLE DUCT  CEILING RETURN AIR GRILE	<del>-</del>	0.0 GPM	SOLENOID VALVE  CALIBRATED BALANCING
12ø 4'-0"(1) -	W/ SOUND BOOT LINEAR DIFFUSER WITH PLENUM AND F 1" SLOTS DUCT CONNECTION. TOP : DUCT SIZE, A	FI EXIBI E		VALVE WITH GPM INDICATED
IIII L-1 200 CFM	(RADIUS) LENGTH, NO. OF SLOTS & SIZE OF SLOT BOTTOM: TYPE , CFM, RADIUS (IF APPLI	T.	GPM_LB/HR	VENTURI FLOW METER
<del>}</del>	FLEXIBLE DUCT CONNECTION	-	GPM LB/HR.	FLOW METER ORIFICE
<del>                                     </del>	FLEXIBLE DUCT	-	OR —	RELIEF VALVE
12/8 FO	FLAT OVAL DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.	-		FLOW SWITCH
12/8	RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.	-	⊢PS	PRESSURE SWITCH
12ø	ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.	-	OR <u>_</u>	TEMPERATURE AND PRESSURE TEST PORT
UP }	INCLINED RISE WITH RESPECT TO AIR FLO			THERMOMETER WELL
DN	INCLINED DROP TURNS=DEPTH OF DUCT.	_	- MHHH	THERMOMETER - TEMP RANGE AS INDICATED
W R	R/W=1. ROUND DUCT SIMILAR TO RECTANGULA		7	PRESSURE GAUGE WITH SHUT OFF PLUG VALVE
12/12 8/8	RECTANGULAR TO RECTANGULAR OR ROUND DUCT TRANSFORMATION MAXIMUM 15° INCLUDEXCEPT WHERE SHOWN OTHERWISE.		<b>*</b>	PRESSURE GAUGE WITH PIGTAIL
12/12 12ø	RECTANGULAR TO ROUND DUCT TRANSFORMA	ATION -	—  —OR <i>—</i> -([]—	UNION
R 6	BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.	[-	— OR —	FLANGE
45° D D	TAP ENTRY AREA EQUALS 150% OF BRANCH AF	REA -	—∞— OR — ဩ—	FLEXIBLE EXPANSION JOINT
120 12/12	HIGH EFFICIENCY FITTING	-		REDUCER
	MANUAL VOLUME DAMPER	-		ECCENTRIC REDUCER
FD. }	FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQ	QD	Î	BRANCH - BOTTOM CONNECTION
FSD,	COMBINATION FIRE/SMOKE DAMPER W/ ACCES	SS PANEL _	<u> </u>	BRANCH - TOP CONNECTION
SD }	SMOKE DAMPER W/ ACCESS PANEL			BRANCH - SIDE CONNECTION
BDD	BACK DRAFT DAMPER	-		RISE OR DROP
ATCD ATCD	ATC DAMPER		G	RISER - DOWN (ELBOW)
AD	ACCESS PANEL IN DUCT OR PLENUM	-	o	RISER - UP (ELBOW)
AD AD	HEATING OR COOLING COIL IN DUCT	-		PIPE CAP
	TILATING ON GOOLING GOIL IN BOOT	-		ARROW INDICATES DIRECTION OF FLOW IN
	SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2 TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET.			PIPE  LEADER INDICATES DOWNWORD SLOPE
	4-WAY BLOW	-  -		
	PATTERN  3-WAY BLOW	-		VALVE IN RISE
	PATTERN  2-WAY BLOW	-	OR	90° ELBOW
	PATTERN  2-WAY BLOW  2-WAY BLOW	-		45° ELBOW
	PATTERN	-	<del>=</del>	ALIGNMENT GUIDE
	1-WAY BLOW PATTERN	[-	<del></del>	ANCHOR

---SD

DUCT SMOKE DETECTOR

<u>PLUMBING</u>	_
$\Box$	THERMOSTATIC MIXING VALVE
—— <sub>э</sub> ×	HOSE BIBB
	FLOOR SINK
	FLOOR DRAIN
	FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
<b>©</b>	ROOF DRAIN
Î	DOWNSPOUT NOZZLE
•VTR	VENT THRU ROOF
P	WATER HAMMER ARRESTOR
	CLEAN-OUT
<b>∀</b>	FILL PORT
7	DRAIN PAN AND P-TRAP
(NAME)	FIXTURE FROM LEVEL ABOVE
_ <del>× × ×</del>	DEMOLITION

<u>E</u>	QUIPMEN	<u>T</u>
	4	UNIT HEATER
		INLINE PUMP
		INLINE PUMP
	<del></del>	FAN

<u>FIRE</u>	
40	HOSE VALVE
焱	NRS GATE VALVE WITH SUPERVISION
상	FLOW SWITCH
	FIRE RISER
0	SPRINKLER HEAD
F	FIRE SPRINKLER WATER
	FLOW SWITCH  FIRE RISER  SPRINKLER HEAD

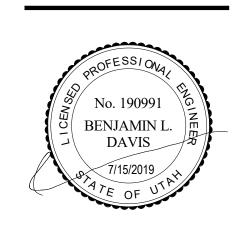
P-1	PLUMBING FIXTURES
<del>-</del>	POINT OF CONNECTION
M-101	SECTION TAG - TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.
A M101	DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.
	EQUIPMENT IDENTIFICATION
	KEYED NOTE IDENTIFICATION
S	SWITCH
©	SENSOR
T	THERMOSTAT
⊕N	NIGHT THERMOSTAT

### LINETYPES CONT.

MUW	MAKE UP WATER
MV	MEDICAL VACUUM
N	NITROGEN
——N20 ——	NITROUS OXIDE
——ох——	MEDICAL OXYGEN
——OX 120——	MEDICAL OXYGEN AT PRESSURE INDICATED
PC	PUMPED CONDENSATE
RO	REVERSE OSMOSIS WATER SUPPLY
ROR	REVERSE OSMOSIS WATER RETURN
RD	ROOF DRAIN
RDO	ROOF DRAIN OVERFLOW
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
	SEWER (BELOW GRADE)
	SEWER (ABOVE GRADE)
sw	SOFT DOMESTIC WATER
——	TEMPERED WATER
TWR	TEMPERED WATER RETURN
V	VACUUM
	VENT (SEWER)

Sheet List		
Sheet Number	Sheet Name	
M000	MECHANICAL SYMBOLS AND LEGEND	
M001	MECHANICAL GENERAL NOTES	
M100	LL1 MECHANICAL OVERALL	
MD101	MECHANICAL DEMOLITION PLANS	
M101	LL1 MECHANCIAL PLAN	
M501	MECHANICAL DETAILS	
M601	SCHEDULES AND SCHEMATIC	
MPD102	LL1 MECHANICAL DEMOLITION PLAN	
MP101	LL2 MECHANICAL PIPING PLAN	
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PD101	LL1 PLUMBING DEMOLITION PLAN	
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P102	LL1 PLUMBING PLAN	
PD111	LL1 MEDICAL GAS DEMOLITION	
P111	LL1 MEDICAL GAS PLAN	
FPD101	FIRE PROTECTION DEMOLITION PLAN	
FP101	LL1 FIRE PROTECTION PLAN	

524 SOUTH 600 EAST SALT LAKE CITY, UT 84102



REV DATE DESCRIPTION

**CLIENT NUMBER:** 

07/15/2019

**CARING** M IMED BUILDIN

MECHANICAL SYMBOLS AND LEGEND

### MEDICAL GAS GENERAL NOTES

- MEDICAL GAS PIPING IS TO BE RUN ABOVE THE CEILING, UNLESS NOTED OTHERWISE. COORDINATE PIPING ROUTING WITH ALL OTHER POSSIBLE CONFLICTS SUCH AS DUCTWORK, DIFFUSERS, OTHER PIPING, LIGHTS, CONDUIT, STRUCTURE, ETC.
- ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
- SLEEVE PIPING THRU WALLS/FOUNDATIONS WHERE REQUIRED.
- MEDICAL GAS PIPING IS SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
- NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS. VFD'S, AND MCC'S.
- MOUNT ALL SERVICE VALVES NEAR CEILING HEIGHT FOR ACCESSIBILITY.

### FIRE PROTECTION GENERAL NOTES

- 1. NO FIRE PROTECTION LINE SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK MECHANICAL PIPING AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION PIPING. FAILURE TO COMPLY WILL RESULT IN THE FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
- ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
- COORDINATE EXACT LOCATION OF PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND PLUMBING PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.

### PLUMBING GENERAL NOTES

- UNLESS OTHERWISE NOTED, SLOPE PIPE AS FOLLOWS: WASTE BRANCHES: 1/4" PER FOOT; WASTE MAINS: 1/4" PER FOOT; ROOF DRAIN/ROOF DRAIN OVERFLOW: 1/8" PER FOOT.
- ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING AREAS ON FLOORS BELOW.
- 3. PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
- 4. ALL PIPING IN PLUMBING CHASES SHALL BE ARRANGED TO ALLOW
- 5. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.

MAINTENANCE ACCESS.

- COORDINATE FAN ROOM FLOOR DRAIN AND FLOOR SINK LOCATIONS WITH COOLING COIL, EVAPORATIVE SECTION, AND HEATING COIL
- 7. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON
- 8. PIPING AND ROUTING SHOWN, INCLUDING ALL BELOW FLOOR DECK PIPING, IS APPROXIMATE. IT IS UP TO THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE OF ALL PIPING.

ALL CEILING TILES WHERE VALVES ARE LOCATED.

- 9. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS, AND OTHER REQUIREMENTS.
- 10. CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY. INSTALL FLUSH VALVES HANDLES ON WIDE SIDE OF ALL FIXTURES.
- 11. LOCATE ALL VENTS MINIMUM 25' AWAY FROM AIR INTAKES.
- 12. INSTALL ALL DOMESTIC WATER LINES BELOW DUCTWORK.
- 13. INSTALL A 24" X 24" ACCESS DOOR BELOW ALL ISOLATION VALVES, BALANCING VALVES AND WATER HAMMER ARRESTORS WHERE MOUNTED ABOVE HARD CEILINGS.
- 14. MOUNT ALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. NEAR CEILING HEIGHT FOR ACCESSIBILITY.
- 15. INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR

PROVIDE SLEEVES AS NECESSARY.

TRADES, TYPICAL.

CONDITIONS.

- MAINTENANCE PER MANUFACTURERS RECOMMENDATION. 16. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL AND
- 17. COORDINATE EXACT LOCATION OF PLUMBING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, DUCTWORK, MECHANICAL PIPING, MEDICAL GASES, FIRE PROTECTION AND OTHER
- 18. COORDINATE THE LOCATION OF THE FLOOR DRAIN. SHOWER DRAIN. OR FLOOR SINK WITH ARCHITECTURAL AND STRUCTURAL, TYPICAL
- 19. ACCESS DOORS SHALL BE PROVIDED TO ALL WATER HAMMER ARRESTORS IN WALLS OR ABOVE CEILINGS.
- 20. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER TO/FROM SINGLE FIXTURE.
- 21. HOSE BIBBS SHOWN AT LAVATORIES ARE TO BE MOUNTED AT AN ACCESSIBLE LOCATION UNDER THE LAVATORY.
- 22. COORDINATE EXACT LOCATION OF PLUMBING PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND FIRE PROTECTION PIPING, AND ALL OTHER TRADES AND ALL EXISTING
- 23. LOCATE CIRCUIT SETTERS, VALVES, WATER HAMMER ARRESTORS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE 24"X24" ACCESS PANEL WHERE ITEM IS LOCATED ABOVE A HARD CEILING.
- 24. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
- 25. INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING.
  - a. SIZE SAME AS DRAINAGE PIPING UP TO 4" NPS. USE 4" NPS FOR LARGER. DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.
- LOCATE AT MINIMUM INTERVALS OF 50 FT FOR PIPING 4" NPS AND SMALLER AND 100 FT FOR LARGER PIPING.
- c. LOCATE AT THE BASE OF EACH VERTICAL STACK.

### MECHANICAL PIPING GENERAL NOTES

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY
- 2. UNLESS OTHERWISE NOTED: ALL MECHANICAL PIPING IS OVERHEAD TO RUN ABOVE DUCTWORK AND TIGHT TO UNDERSIDE OF STRUCTURE.
- 3. WHERE VALVING OR EQUIPMENT IS LOCATED ABOVE HARD CEILINGS PROVIDE AN ACCESS DOOR IN CEILING. MINIMUM ACCESS DOOR SIZE OF 24"X24".
- 4. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS,
- 5. SLEEVE PIPING THRU WALLS/FOUNDATIONS WHERE REQUIRED.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS
- 8. PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN THE HEATING AND CHILLED WATER PIPING SYSTEM.
- 9. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
- 10. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
- 11. PROVIDE ISOLATION VALVES AT EACH EXIT/ENTRANCE INTO SHAFT WHETHER OR NOT SHOWN.
- 12. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
- 13. COORDINATE LOCATION OF THERMOSTAT WITH ARCHITECTURAL FURNISHING PLANS. MOUNT THERMOSTAT AT HEIGHT AS SPECIFIED ON ARCHITECTURAL.
- 14. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.

### MECHANICAL GENERAL NOTES

- COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES, AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLAN,
- BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK INLET SIZE OF THE DIFFUSERS. REGISTER OR GRILLE IT SERVES UNLESS NOTED
- 4. COORDINATE EXACT MOUNTING LOCATION OF ALL THERMOSTATS WITH LATEST REVISION OF ARCHITECTURAL ELEVATION AND FURNISHINGS PLANS, TYPICAL.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TYPICAL.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE FIRE, SMOKE OR COMBINATION FIRE/SMOKE DAMPERS AT ALL LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS AND AS REQUIRED TO MEET THE INTEGRITY OF ALL SMOKE AND FIRE PARTITIONS. THE CONTRACTOR SHALL REFER TO THE LATEST ARCHITECTURAL LIFE SAFETY PLANS FOR ALL FIRE AND SMOKE PARTITION LOCATIONS. DAMPERS ARE TO BE PROVIDED WITH SHUTOFF/TEST SWITCH AT EACH LOCATION.
- PROVIDE AND INSTALL TURNING VANES IN ALL SQUARE LOW
- CLEARANCES ON EACH SIDE, SEE DETAILS, TYPICAL.
- 10. CONTRACTOR SHALL OFF-SET, TRANSITION AND PROVIDE CHANGES
- 11. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. REFER TO MECHANICAL SPECIFICATIONS FOR EXTENT OF DUCT INSULATION AND
- 12. PROVIDE AND INSTALL REMOTE DAMPER OPERATORS FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS, SEE MECHANICAL SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS,
- 13. PROVIDE AND INSTALL HIGH EFFICIENCY TAKE-OFF FITTINGS AND BALANCING DAMPER AT ALL BRANCH CONNECTIONS TO LOW PRESSURE DUCTWORK.
- 14. PROVIDE AND INSTALL HIGH EFFICIENCY OR CONICAL TAKE-OFFS AT ALL BRANCH CONNECTIONS TO MEDIUM PRESSURE DUCTWORK.
- 15. WHERE DUCTWORK CROSSES, SUPPLY DUCTWORK IS USUALLY BELOW EXHAUST DUCTS.
- 16. AT LOCATIONS WHERE DIFFUSERS OR GRILLES ARE UNDER DUCTWORK, CONTRACTOR TO FABRICATE TRANSITION BOOT FROM FLEX CONNECTION TO DIFFUSER OR GRILLE WITH BALANCING DAMPER, TYPICAL.
- 17. THE MECHANICAL CONTRACTOR SHALL PROVIDE CEILING MOUNTED ACCESS DOORS FOR ALL FIRE, SMOKE AND COMBINATION FIRE/SMOKE DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. FIELD VERIFY EXACT INSTALLATION LOCATIONS PRIOR TO COMMENCING WORK AND COORDINATE INSTALLATIONS WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS.
- RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, BAS DEVICES, MAINTENANCE ACCESS, ETC.
- INLET OF VAV BOX. BOX SHALL BE HARD CONNECTED (CONICAL) TO MEDIUM PRESSURE DUCT, TYPICAL.
- 20. PROVIDE ACCESS DOORS TO ACCESS VAV BOX CONTROLS ABOVE HARD CEILINGS. PROVIDE MIN. 24" X 24".
- 21. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN

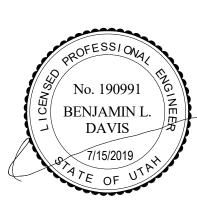
THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.

- 22. ALL DUCTWORK ABOVE HARD CEILINGS SHALL BE EXTENDED ALL THE WAY TO THE SUPPLY DIFFUSERS, RETURN GRILLS OR EXHAUST GRILLS WHETHER OR NOT HARD DUCT OR FLEX DUCT IS SHOWN ON PLANS. FLEX DUCT WILL NOT BE ALLOWED TO DIFFUSERS OR GRILLS ABOVE HARD CEILINGS. FLEX DUCT WILL BE REQUIRED IN AREAS ABOVE T-BAR CEILINGS.
- 23. NEW DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, MEDICAL GASES, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS.
- 24. THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED
  - LOCATE IN ACCESSIBLE LOCATION. WHERE THERE ARE HARD CEILINGS

- 2. SEE DETAIL FOR DIFFUSER CONNECTIONS TO DUCTWORK, TYPICAL.
- OTHERWISE, TYPICAL.
- CAULKING AND SEALING ALL PENETRATIONS IN FIRE AND SMOKE RATED PARTITIONS TO MAINTAIN RATINGS. SEE SPECIFICATION,
- PRESSURE DUCTWORK AT ELBOWS OR TEES, TYPICAL.
- INSTALL ALL TERMINAL BOXES IN EASILY ACCESSIBLE AND SERVICEABLE LOCATIONS, MEETING ALL MANUFACTURERS REQUIRED
- AS REQUIRED FOR COORDINATION WITH OTHER TRADES, TYPICAL.
- TYPICAL.
- BELOW RETURN AND EXHAUST DUCT. RETURN DUCTWORK IS USUALLY
- 18. MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURERS
- 19. ALL VAV BOXES TO HAVE REHEAT COILS, EXCEPT AS NOTED. PROVIDE A MINIMUM OF TWO DUCT DIAMETERS OF STRAIGHT ROUND DUCT TO

- DEVIATIONS FROM THE CONTRACT DOCUMENTS.
- 25. PROVIDE ACCESS TO ALL TEMPERATURE CONTROLS ABOVE CEILING. THE CONTRACTOR SHALL PROVIDE 24"X24" ACCESS DOOR.





& FRANKASSOCIATES, INC. CONSULTING ENGINEERS Salt Lake City. Logan . St. George . Tempe

801.530.3148 T

Salt Lake City, UT 84111 801.530.3150 F VBFA Project Number: 19303

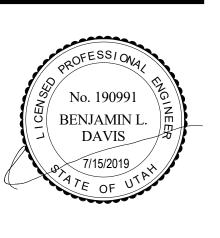
DATE DESCRIPTION

07/15/2019

DATE:

IMED BUILDIN





REV DATE DESCRIPTION

IMED BUILDING
INTERMOUNTAIN HEALTHCAR
5125 SOUTH COTTONWOOD S'
RID CTT (C)

## **KEYED NOTES**

CRYOGEN VENT TO REMAIN CONNECTED TO EXISTING MAGNET.

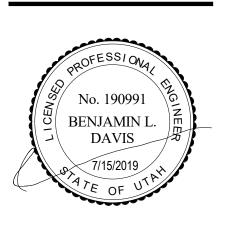
EXISTING GRILLES TO BE REMOVED AND RELOCATED TO NEW CEILING LAYOUT.

EXISTING VAV BOX AND ASSOCIATED DUCTWORK TO REMAIN.

EXISTING CRU AND ASSOCIATED DUCTWORK TO

EXISTING WALL EXHAUST FAN SWITCH TO REMAIN. RELOCATE AS NEEDED WITH NEW CABINET LAYOUT, SEE ARCHITECTURAL SHEETS.

524 SOUTH 600 EAST 801.575.8800 SALT LAKE CITY, UT 84102 VCBO.COM



VAN BOERUM & FRANKASSOCIATES, INC. CONSULTING ENGINEERS

VBFA Project Number: 19303

REV DATE DESCRIPTION

IMED BUILDIN

LL1 Mechanical Demolition Plan

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

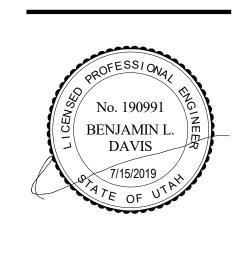
### **KEYED NOTES**

- RECONNECT CRYOGEN VENT TO NEW MRI.
- NEW FLEX DUCT TO BE RATED FOR USE IN MRI, THERMAFLEX PHD OR EQUAL. TYPICAL.
- RE-BALANCE GRILLE TO AIRFLOW SHOWN.
- REUSED 24" x 24" RETURN DIFFUSER USED AS PRESSURE EQUALIZING GRID FOR WAVE GUIDE VENT. EQUALIZING GRID MUST BE OF ALL ALUMINUM CONSTRUCTION.
- COORDINATE DUCTWORK, DIFFUSERS, AND REGISTERS WITH RF SHIELD AND STRUCTURE,
- SPECIAL CONSTRUCTION AREA: A. ALL DUCTWORK, PIPING HANGERS, BRACKETS, VALVES, DIFFUSERS, GRILLES, DAMPERS, THERMOSTATS, VENTS, ETC., WITHIN THE LIMITS OF "SPECIAL CONSTRUCTION AREA" SHALL BE COMPRISED OF NON-FERROUS AND APPROVED MATERIALS.
- ELECTRICALLY ISOLATED. B.A. PENETRATIONS - THE SHIELD ENCLOSURE WILL HAVE SPECIAL WAVE GUIDE PENETRATIONS TO RECEIVE ALL REQUIRED MECHANICAL LINES, SUCH AS WATER, GAS, AIR OR WASTE. FROM THE OUTSIDE, THE MECHANICAL LINES, SUCH AS WATER, GAS, AIR OR WASTE. FROM THE OUTSIDE, THE MECHANICAL LINES SHALL HAVE DIELECTRIC CONNECTORS AND THEN SHALL BE ATTACHED TO THE WAVE GUIDE PENETRATIONS ON THE SHIELD. PIPING DISTRIBUTION ON THE INSIDE OF THE ENCLOSURE CAN BE PREFORMED IN A CONVENTIONAL

B. ALL PENETRATIONS OF RF SHIELD TO BE

- B.B. ALL PIPING TO THE ROOM IS TO BE BROUGHT THROUGH WAVE GUIDE PENETRATIONS. WAVE GUIDE PENETRATIONS WILL BE PROVIDED BY THE RF SHIELD SUPPLIER. DIELECTRIC COUPLINGS ARE TO BE USED BEFORE ATTACHING PIPES TO WAVE GUIDE PARTITION. B.C. ALL DUCTWORK TO THE SHIELDED ROOM IS TO BE ATTACHED TO THE RF ISOLATORS WHICH ARE PROVIDED BY THE RF SHIELD SUPPLIER BY USE OF NONMETALLIC FLEXIBLE DUCT CONNECTORS.
- CHECK OPERATION OF EMERGENCY EXHAUST. VERIFY AIR BALANCE OF 1200 CFM.
- VERIFY OPERATION OF ATC DAMPER TO CLOSE WHEN EMERGENCY EXHAUST IS ACTIVATED.
- EMERGENCY EXHAUST CONNECTED TO EXISTING WALL SWITCH. RELOCATE WALL SWITCH CLOSER TO THE DOOR TO ALLOW FOR NEW CABINET INSTALLATION, COORDINATE WITH ARCHITECTURAL ELEVATIONS. VERIFY OPERATION OF EXISTING PARALLEL FAN SWITCH IN CONTROL ROOM.

524 SOUTH 600 EAST SALT LAKE CITY, UT 84102





Salt Lake City Logan . St. George . Tempe 330 South 300 East 801.530.3148 T Salt Lake City, UT 84111 801.530.3150 F VBFA Project Number: 19303

REV DATE DESCRIPTION

07/15/2019

**CLIENT NUMBER:** 

# **MRI CARING SUITE**

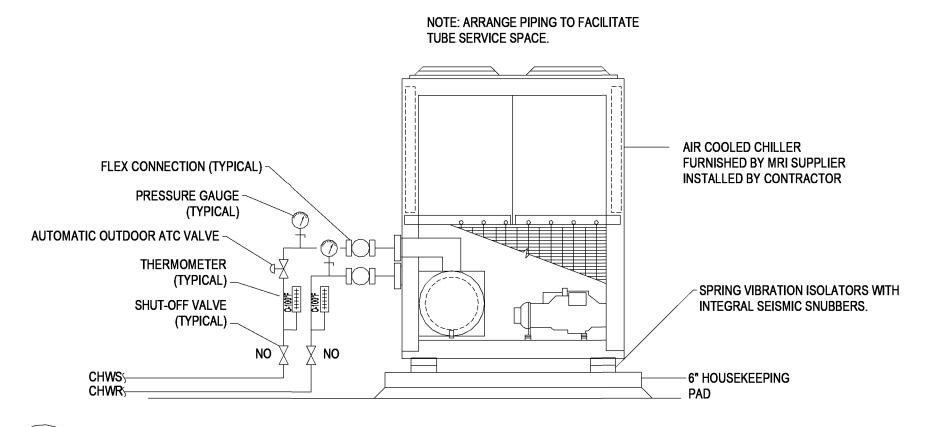
G IMED BUILDIN

1 - LL1 Mechanical Plan

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

PIPING TO EQUIPMENT ENCLOSURE

NO SCALE NO SCALE



CHILLER PIPING DETAIL

 $\setminus$  M501 / NO SCALE

NOTE: THE SEISMIC DETAILS SHOWN HERE ARE FOR REFERENCE ONLY TO ILLUSTRATE TYPICAL SEISMIC REQUIREMENTS. REFER TO SPECIFICATIONS FOR REQUIRED SEISMIC DESIGN AND APPLICATION.

TO ROOM FLOOR SINK

1		HOWN PROVIDE GENERAL GUIDELINES FOR A LATERAL BRACING SYSTEM. VERTICAL SUPPORT SYSTEM MUST ALSO BE USED.		
2	BRACE ALL PIPES 1-1/2" I.D. AND LA	. PIPES 1-1/2" I.D. AND LARGER.		
3	PROVIDED AT ALL CHANGES IN DIR	STRAINTS AND BRACING NOT TO EXCEED 30'-0" CENTERS AND SHALL BE AT ALL CHANGES IN DIRECTION OF PIPE. ALL DROPS TO EQUIPMENT, ACH SIDE OF FLEXIBLE CONNECTIONS. BRACE POINTS SHALL NOT EXCEED AT FLEXIBLE CONNECTION.		
4	ALL HOLES IN ANGLES ARE TO BE 1 WASHERS BETWEEN SHEET METAL		DARD CUT	
5	EQUIPMENT WHICH ATTACHES TO INDEPENDENTLY OF THE PIPES.	THE PIPING SYSTEM SHALL BE BRA	CED	
6	ALL SHEET METAL FOR BRACING TO METAL BRACING SHALL BE AS FOLL		OR SHEET	
	16 GA = (0.0598 INCH) 14 GA = (0.0747 INCH) 12 GA = (0.1046 INCH)			
7	MINIMUM DISTANCE FROM EDGE OF	F ANGLE TO BOLTS SHALL BE AS FO	OLLOWS:	
	BOLT DIAMETER	DISTANCE FROM EDGE		
	1/4" TO 1/2"	1"		
	5/8"	1 1/8"		
		1 1/4"		
	3/4"			

9 PROVIDE LARGE ENOUGH PIPE SLEEVES THROUGH WALLS OR FLOORS TO ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENTS.

10 DO NOT FASTEN ONE RIGID PIPING SYSTEM TO TWO DISSIMILAR PARTS OF A BUILDING THAT MAY RESPOND IN A DIFFERENT MODE DURING AN EARTHQUAKE. FOR EXAMPLE, A WALL AND A ROOF.

11 BRACING DETAILS, SCHEDULE AND NOTES ARE TO BE USED WITH THE FOLLOWING TYPES OF PIPE: STEEL PIPE SCHEDULE 40 AND 80, COPPER PIPE TYPE K,L,M (ONLY SILVER SOLDERED BRAZED JOINTS TO BE USED WITH COPPER PIPE).

12 FOR GAS PIPING, THE BRACING DETAILS, SCHEDULES AND NOTES MAY BE USED

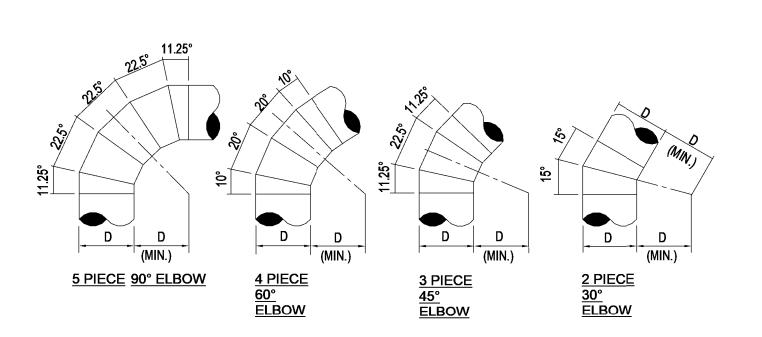
EXCEPT THAT RESTRAINTS SHALL BE INSTALLED AT EVERY 20'-0" O.C. ALSO ALL PIPE 1 INCH AND LARGER SHALL BE BRACED. 13 WASTE, VENT AND ROOF DRAINAGE PIPING SYSTEMS ARE EXCLUDED FROM THE

RESTRAINT GUIDELINES. 14 ALTERNATE EVERY OTHER CABLE RESTRAINT IN OPPOSITE DIRECTION (SHOWN DOTTED

- FLEX DUCT TO HET FITTING - SEE SUPPORT FLEX PLAN FOR SIZE DUCT AND ELBOW FROM STRUCTURE ABOVE FLEX DUCT - SHEET METAL ELBOW MAKE BEND RADIUS NOTE: 1 1/2 x DUCT RADIUS RETURN SIMILAR TIGHTENING BAND

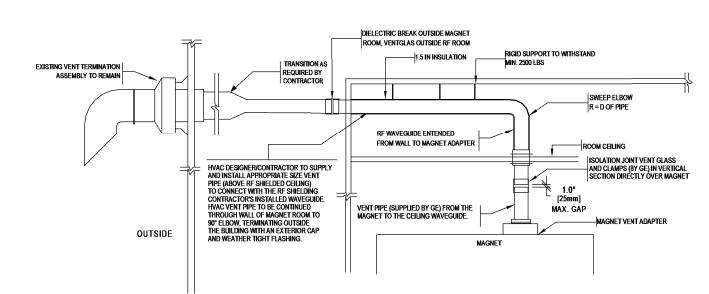
DIFFUSER CONNECTION DETAIL

 $\setminus$  M501 / NO SCALE

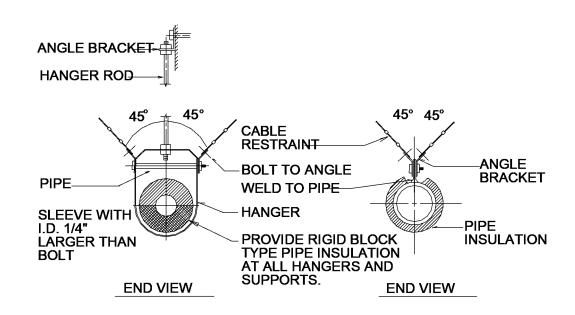


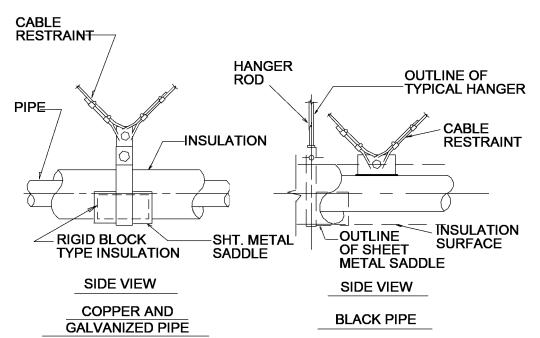
ROUND DUCT ELBOW DETAILS

\ M501 / NO SCALE



TYPICAL CRYOGEN VENT PIPE DETAIL

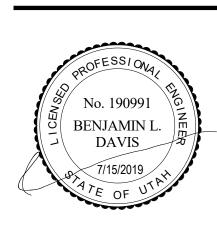




PIPING RESTRAINT DETAIL

M501 NO SCALE

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VBFA Project Number: 19303

REV DATE DESCRIPTION

VCBO NUMBER: **CLIENT NUMBER:** 

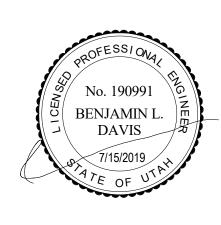
DATE: 07/15/2019

SUITE **CARING** MR

5

BUILDIN

MECHANICAL DETAILS



7/15/2019 07 7/E OF UTAH

VAN BOERUM
& FRANKASSOCIATES, INC
CONSULTING ENGINEERS

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Salt Lake City, UT 84111 801.530.3150 F

VBFA Project Number: 19303

REV DATE DESCRIPTION

VCBO NUMBER: 19480
CLIENT NUMBER:

:: 07/15/2019

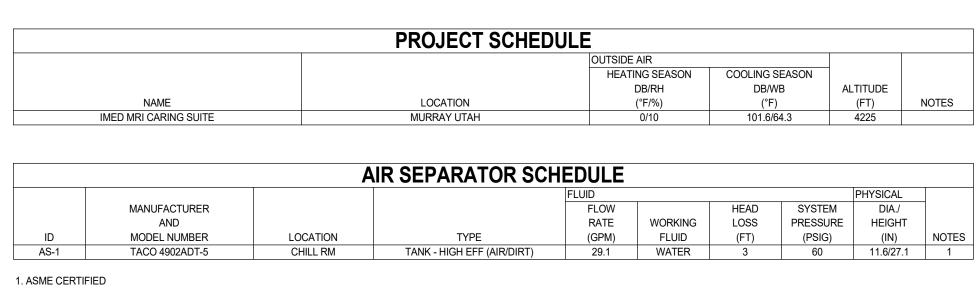
MRI CARING SUITE

ERMOUNTAIN HEALTHCARE 5 SOUTH COTTONWOOD STREET, MURRAY UT 8

SCHEDULES AND SCHEMATIC

NTE

1725



			2-WAY CONT	<b>ROL VALV</b>	E SCHEI	DULE						
							FLUID			ELECTRICAL	PHYSICAL	
	MANUFACTURER						FLOW	HEAD			CONNECT	
	AND				CONTROL	ACTUATOR	RATE	LOSS			SIZE	
ID	MODEL NUMBER	LOCATION	TYPE	CONSTRUCTION	TYPE	TYPE	(GPM)	(FT)	CV	VOLT/PH/HZ	(IN)	NOTES
CV-CH-03-2	BRAY NYL2020	CHW	ACTUATED BUTTERFLY, DUCTILE IRON DISC	CAST IRON	2-POSITION	ELECTRIC	29.1	3	25.5	24/1/60	2	1
CV-CH-03-4	BRAY NYL2020	CHW	ACTUATED BUTTERFLY, DUCTILE IRON DISC	CAST IRON	2-POSITION	ELECTRIC	29.1	3	25.5	24/1/60	2	1

			EXPAN	SION TA	NK SCHED	OULE						
				FLUID					PHYSICAL			
					MIN. TANK/	MINIMUM	MAXIMUM	RELIEF				1 '
	MANUFACTURER				ACCEPTANCE	FILL	WORKING	VALVE	TANK	DIA./	NPT	
	AND			WORKING	VOLUME	PRESSURE	PRESSURE	PRESSURE	SIZE	HEIGHT	FITTING	
ID	MODEL NUMBER	LOCATION	TYPE	FLUID	(GAL)	(PSIG)	(PSIG)	(PSIG)	(GAL)	(IN)	(IN)	NOTES
ET-1	TACO CA-90	CHILL RM	VERT BLADDER FULL	WATER	4.9/1.1	38.7	54	60	23	20/29.1	0.5	1

1. ASME CERTIFIED

			GLY	COL FEED SY	STEM S	CHEDUI	_E						
				FLUID		COLD		ELECTRICAL		PHYSICAL			
						STATIC				LENGTH/			٦
	MANUFACTURER				TOTAL	FILL	PRESSURE			WIDTH/	NPT	TANK	
	AND			WORKING	VOLUME	PRESSURE	RATING			HEIGHT	FITTING	SIZE	
ID	MODEL NUMBER	LOCATION	TYPE	FLUID	(GAL)	(PSIG)	(PSIG)	VOLT/PH/HZ	ALARM PANEL	(IN)	(IN)	(GAL)	NO.
GFS-1	AXIOM SF100	MECH RM	STANDARD	WATER	505	10.5	125	120/1/60		24/24/49	0.5	55	
GFS-2	AXIOM MF300	MECH RM	STANDARD	WATER	279.6	10.5	60	120/1/60		11.8/11.8/36	0.5	17	

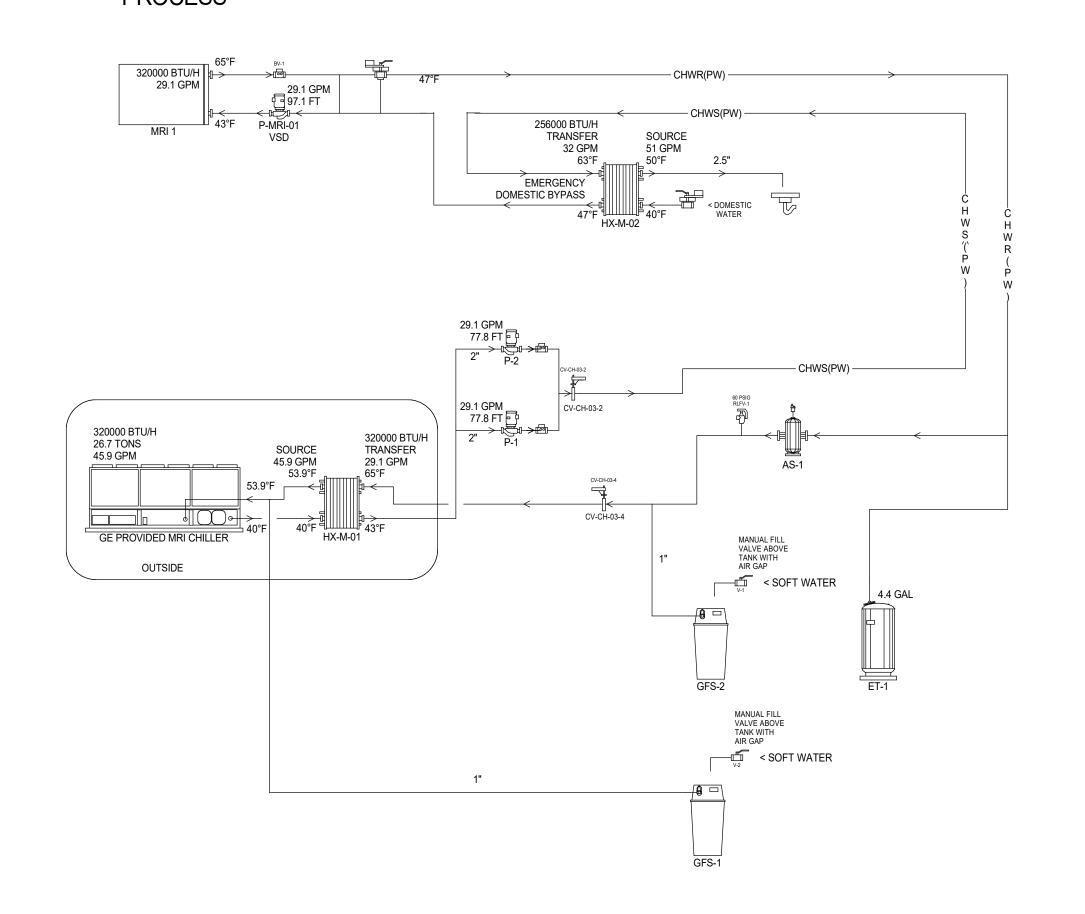
				HYDRO	NIC-TO-	HYDROI	NIC HEA	T EXCHA	ANGER S	SCHEDU	ILE					
						SOURCE MED	IUM (HYDRONIC	)		TRANSFER ME	DIUM (HYDRON	IC)		PHYSICAL		
							ENTERING/				ENTERING/			DIA./		
	MANUFACTURER					FLOW	LEAVING		HEAD	FLOW	LEAVING		HEAD	LENGTH/	SURFACE	
	AND				LOAD	RATE	TEMP.	WORKING	LOSS	RATE	TEMP.	WORKING	LOSS	NO. PLATES	AREA	
ID	MODEL NUMBER	LOCATION	TYPE	USAGE	(BTU/H)	(GPM)	(°F)	FLUID	(FT)	(GPM)	(°F)	FLUID	(FT)	(IN/IN)	(FT²)	NOTES
HX-M-01	TACO TFP10X20-130(2-1/2"TMPT)	MRI-1	BRAZED PLATE	COOLING	320000	45.9	40/53.9	WATER	15	29.1	65/43	WATER	15	/20.3/130	168	1
HX-M-02	TACO TFP10X20-60(2"TMPT)	MRI-1	BRAZED PLATE	COOLING	256000	51	40/50	WATER	15	32	63/47	WATER	15	/20.3/60	76.13	

1. INSTALL INSULATION ON HEAT EXCHANGER AND COVER WITH ALUMINUM JACKET WEATHER TIGHT

				PU	MP SCHE	DULE							
				FLUID			PUMP		ELECTRICAL				
	MANUFACTURER			FLOW		HEAD			MOTOR	MOTOR	MOTOR		
	AND			RATE	WORKING	LOSS	EFFICIENCY		SIZE	BHP	SPEED		
ID	MODEL NUMBER	LOCATION	TYPE	(GPM)	FLUID	(FT)	(%)	CONSTRUCTION	(HP)	(HP)	(RPM)	VOLT/PH/HZ	NOTES
P-MRI-01	TACO KV1509	MRI	VERTICAL CLOSE-COUPLED INLINE	29.1	WATER	97.1	32.1	BRONZE FITTED	5	2.221	1760	460/3/60	1
P-1	TACO KV1509	MECH	VERTICAL CLOSE-COUPLED INLINE	29.1	WATER	86.1	32.7	BRONZE FITTED	5	1.934	1760	460/3/60	2
P-2	TACO KV1509	MECH	VERTICAL CLOSE-COUPLED INLINE	29.1	WATER	86.1	32.7	BRONZE FITTED	5	1.934	1760	460/3/60	2

PUMP CONTROLLED BY VFD, BY MECHANICAL CONTRACTOR.
 PROVIDE WITH TEFC TOTALLY ENCLOSED FAN COOLED MOTOR.

### PROCESS



COOLING SCHEMATIC

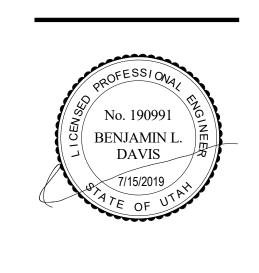
**KEYED NOTES** 

MAIN. RETAIN PRESSURE GAUGES,

REMOVE CHILLED WATER PIPING SERVING THE

CONDITION FOR REINSTALLATION IN NEW MRI

CAP REMOVED BRANCH LINES AT MAIN CHILLER WATER SUPPLY AND RETURN PIPING.



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Salt Lake City, UT 84111 801.530.3150 F

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MRI CARING SUITE

IMED BUILDIN

