GENERAL MECHANICAL SYMBOLS

#	REVISION NUMBER - SHOWN ON PLANS
	POINT WHERE NEW CONNECTS TO EXISTING
	POINT WHERE EXISTING IS TO BE DEMOLISHED
- / ---	NUMBER OF DETAIL ON SHEET NUMBER OF SHEET WHERE DETAIL APPEARS
1	KEYNOTE
	CONTINUATION SYMBOL
Room 11	ROOM NAME AND NUMBER
	ITEM TO BE DEMOLISHED
	AREA NOT IN CONTRACT
2"	PIPE SIZE TAG (DIAMETER)
	ABOVE GROUND PIPING
1/8" / 12" SLOPE	PIPE SLOPE TAG
	BELOW GROUND PIPING
INVERT: -105' - 1"	PIPE INVERT ELEVATION TAG
(E)	EXISTING PIPE TAG
	PIPING BEING DEMOLISHED

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
D	DEGREE	O	OXYGEN
DB	DRY BULB	O/A	OUTSIDE AIR
DCW	DOMESTIC COLD WATER	PD	PRESSURE DROP
DHW	DOMESTIC HOT WATER	PIV	POST INDICATOR VALVE
DIA	DIAMETER	PLBG	PLUMBING
DN	DOWN	PRESS	PRESSURE
DW	DISTILLED WATER	PRV	PRESSURE REDUCING VALVE
EA	EACH	PSI	POUNDS PER SQUARE INCH
EAT	ENTERING AIR TEMPERATURE	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	R	DUCT RISER
EWC	ELECTRIC WATER COOLER	R/A	RETURN AIR
EWT	ENTERING WATER TEMPERATURE	RCP	RADIANT CEILING PANEL
E/A	EXHAUST AIR	RD	ROOF DRAIN
EXIST	EXISTING	RDO	ROOF DRAIN OVERFLOW
F	DEGREES FAHRENHEIT	REC	RECESSED
FCO	FLOOR CLEAN OUT	RED	REDUCER
FD	FLOOR DRAIN	RH	RELATIVE HUMIDITY
FD	FIRE DAMPER	RL/A	RELIEF AIR
FDV	FIRE DEPARTMENT VALVE	RM	ROOM
FL	FLOOR	RPM	REVOLUTIONS PER MINUTE
FO	FUEL OIL	RW	RAIN WATER
FOV	FUEL OIL VENT	SF	SQUARE FOOT
FOR	FUEL OIL RETURN	S/A	SUPPLY AIR
FOS	FUEL OIL SUPPLY	SAN	SANITARY
FPM	FEET PER MINUTE	SF	SQUARE FOOT
FS	FLOOR SINK	SD	SMOKE DAMPER
FT	FOOT/FEET	SM	SURFACE MOUNT
FTR	FIN TUBE RADIATION	SP	STANDPIPE
GAL	GALLON	SP	STATIC PRESSURE
GC	GENERAL CONTRACTOR	STM	STEAM
GPM	GALLONS PER MINUTE	T	THERMOSTAT
GW	GREASE WASTE	TD	TRENCH DRAIN
HB	HOSE BIB	TDR	TEMPERATURE DROP
HP	HORSE POWER	TEMP	TEMPERATURE
HTG	HEATING	TYP	TYPICAL
HTR	HEATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

HVAC SYMBOLS

DAMPER TAGS

FIRE DAMPER (F)	MANUAL BALANCING DAMPER (B)
SMOKE DAMPER (S)	BACKDRAFT DAMPER (D)
MOTORIZED DAMPER (M)	COMBINATION FIRE/SMOKE DAMPER (C)

HVAC SYMBOLS

18"x8"	SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
18"/8"	OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
18"Ø	ROUND DUCT SIZE TAG (DIAMETER)
(E)	EXISTING DUCT TAG
	DUCT BEING DEMOLISHED
	SUPPLY AIR - LOW PRESSURE
	SUPPLY AIR - MEDIUM PRESSURE
	CONDITIONED OUTSIDE AIR
	OUTSIDE AIR
	RETURN AIR
	TRANSFER AIR
	EXHAUST AIR
	RELIEF AIR
	GREASE EXHAUST AIR
	SMOKE EXHAUST AIR
	EXHAUST GAS FLUE
	COMBUSTION AIR
DROP	RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
DROP	ROUND SUPPLY/OUTSIDE AIR DUCT RISE
DROP	RECTANGULAR RETURN/TRANSFER AIR DUCT RISE
DROP	ROUND RETURN/TRANSFER AIR DUCT RISE
DROP	RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE
DROP	ROUND EXHAUST/RELIEF AIR DUCT RISE

GRILLES, REGISTERS & DIFFUSERS SYMBOLS AND TAGS

SQUARE SUPPLY DIFFUSER — SD1 /400, 10"Ø, 22 H-5/7/14 — CFM; NECK SIZE; THROW-150FPM/ 100FPM/ 50FPM; THROW PATTERN; MAX NC RATING

RECTANGULAR SUPPLY DIFFUSER — SG5 /500, 12"x10"

ROUND SUPPLY DIFFUSER — SD9 /400, 12"Ø

RG15 /500, 6"x6" — CFM; NECK SIZE; SQUARE RETURN GRILLE

RG11 /500, 18"x10" — RECTANGULAR EXHAUST GRILLE

RG15 /500, 6"x6" — SQUARE EXHAUST GRILLE

RG11 /900, 24"x12" — RECTANGULAR RETURN GRILLE

LINEAR DIFFUSER TAG

SLB3 /400, 48"x2 1/2"

TYPE (SEE SCHEDULE) — LSD1 /200, 1 /1" / 4' - 0" / 9"/5" — CFM; NUMBER OF SLOTS / SLOT WIDTH / ACTIVE SLOT LENGTH (PLENUM LENGTH) / NECK SIZE

LSD1 /200, 1 /1" / 4' - 0" / 9"/5" — 6' - 0" — SECTION TOTAL TRACK LENGTH — LSD1 /200, 1 /1" / 4' - 0" / 9"/5"

MECHANICAL EQUIPMENT TAGS

HEATING COIL FLOW — VAV-XX, Htg: 3.7 GPM, VAV BOX

BOTTOM OF EQUIPMENT ELEVATION — VAV-XX, 10' - 0"

EXISTING EQUIPMENT TO REMAIN — (E)VAV-XX

EXISTING RELOCATED EQUIPMENT — (R)VAV-XX

EQUIPMENT BY OTHERS (REFER TO OTHER DISCIPLINE FOR ADDITIONAL INFORMATION) — VAV-XX

OPERATING WEIGHT NOT INCLUDING CURB — RTU-XX, 590 lb — ROOFTOP UNIT

NOMINAL COOLING CAPACITY — RTU-XX, 4.0 ton

FUEL INPUT GAS PIPE FLOW — RTU-XX, 115000 Btu/h, 115 CFH

DATA DEVICE TAGS

SYMBOL; EQUIPMENT ID

CARBON DIOXIDE SENSOR	CO2	TH	RTU-XX	TEMPERATURE & HUMIDITY SENSOR
CARBON MONOXIDE SENSOR	CO	TS	VAV-XX	TEMPERATURE SENSOR
NITROGEN DIOXIDE SENSOR	NO2	T		THERMOSTAT
HUMIDITY SENSOR	HS	MS		MANUAL SWITCH
HUMIDISTAT	H	S		SENSOR

PIPING SYMBOLS

CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CD	CONDENSATE DRAINAGE
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
GWR	GEOTHERMAL WATER RETURN
GWS	GEOTHERMAL WATER SUPPLY
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
NG	NATURAL GAS
PG	PROPANE GAS
REF-L	REFRIGERANT-LIQUID
REF-S	REFRIGERANT-SUCTION
REF-HG	REFRIGERANT-HOT GAS
STM	STEAM
CDR	CONDENSATE RETURN
CWV	COMBINATION WASTE & VENT
CA	COMPRESSED AIR
DCW	DOMESTIC COLD WATER
S-CW	SOFT COLD WATER
F-CW	FILTERED COLD WATER
RO	REVERSE OSMOSIS WATER
DHW	HOT WATER
DHW 140°	HOT WATER 140°
DHW-R	HOT WATER RECIRCULATION
DHW-R 140°	HOT WATER RECIRCULATION 140°
GV	GREASE VENT
GW	GREASE WASTE
IW	INDIRECT WASTE
OV	OIL VENT
OW	OIL WASTE
PD	PUMP DISCHARGE
V	SANITARY VENT
W	SANITARY SEWER
SHWR	SOLAR HOT WATER RETURN
SHWS	SOLAR HOT WATER SUPPLY
RD	ROOF DRAIN
RDO	ROOF DRAIN OVERFLOW

PIPE DROP; PIPE RISE; PIPE TEE; CAP

4"; 2"; 4"; PLUG; REDUCING 45 DEGREE TEE; 45 DEGREE TEE

PIPE ACCESSORY TAGS

2" DOM. WM DOMESTIC WATER METER	2" M-CNTRL MOTORIZED CONTROL VALVE
2" BALANCING BALANCING VALVE	2" 3-WAY CNTRL 3 WAY MOTORIZED CONTROL VALVE
2" SHUTOFF 1/4 TURN BALL VALVE	2" PRV PRESSURE REDUCING VALVE
2" CHECK CHECK VALVE	3/8" SOLENOID REFRIGERANT SOLENOID VALVE
2" TMV 3-WAY MIXING VALVE	2" BUTTERFLY BUTTERFLY VALVE

DRAIN TAGS

DRAIN SIZE; TYPE (SEE SCHEDULE)

FLOOR DRAIN	4" FD-1	
FLOOR DRAIN	4" FD-3P	"P" - INDICATES PRIMER CONNECTION
FLOOR SINK	4" FS-4	
HUB DRAIN	4" FD-13, 8 WFU	FIXTURE UNITS

4" AD-6	AREA DRAIN
4" DD-29	DECK DRAIN
4" RD-12	FLOW CONTROL DRAIN
4" RD-15	ROOF DRAIN
6" RD-1, 4000 SF	COMBINATION DRAINS

ROOF AREA SERVED BY DRAIN

PLUMBING FIXTURE TAGS

TYPE (SEE SCHEDULE) — L-1

FIXTURE UNITS — 1.5 CWFU, 1.5 HWFU

L-1, 1 WFU

WATER CLOSET - WALL HUNG - ADA — WC-1A

WC-1

U-1

PIPE ACCESORY TAG

4" WCO; 4" WCO

* NOTE *
THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

MECHANICAL SHEET INDEX

Grand total: 22

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VBFA Project #: 21576

Intermountain® Healthcare
Primary Children's Hospital - Ultrasound
100 MARIO CAPECCHI DRIVE
SALT LAKE CITY, UTAH 84113

PROJECT #: 00000

CONSTRUCTION DOCUMENTS
10/11/2022

△	DATE	REVISION

REGISTERED PROFESSIONAL ENGINEER
No. 10188004-2202
JARED J. SMITH
10.11.2022
STATE OF UTAH

MECHANICAL TITLE SHEET

M000

BIM 360://IHC_014.30 - Primary Childrens Ultrasound/21576 - Primary Childrens Ultrasound MEP_21.rvt

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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 REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
2. ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
3. 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.
4. FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND/OR REROUTE ANY AND ALL FIRE PROTECTION PIPING, VALVING, SUPPORTS OR SYSTEMS, OTHERWISE WITHIN THE FIRE SUPPRESSION DISCIPLINE REGARDLESS OF WHO INSTALLED THEM OR WHEN THEY WERE INSTALLED, IN ORDER TO ACCOMMODATE MECHANICAL, PLUMBING, ELECTRICAL OR OTHER SYSTEMS. COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING OR OTHER CONTRACTORS UNTIL SUBSTANTIAL COMPLETION OF PROJECT.
5. PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND REMOVE AND REPLACE ANY EXISTING ALLIED XL PIPING.
6. THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
7. THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
8. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
9. DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
10. ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
11. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
12. AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
13. AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS, ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
14. SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
15. ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLERS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM. BRANCH LINE TO ENTER ROOM ABOVE DOOR.
16. THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
17. THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.
18. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING FIRE PUMP DATA FOR HYDRAULIC CALCULATIONS.

PLUMBING GENERAL NOTES

1. 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.
2. PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
3. 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.
4. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
5. EXISTING 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.
6. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS AND OTHER REQUIREMENTS.
7. CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY. INSTALL FLUSH VALVES HANDLES ON WIDE SIDE OF ALL FIXTURES.
8. INSTALL ALL DOMESTIC WATER LINES BELOW DUCTWORK.
9. INSTALL A 24" X 24" ACCESS DOOR BELOW ALL ISOLATION VALVES, BALANCING VALVES AND WATER HAMMER ARRESTORS WHERE MOUNTED ABOVE HARD CEILINGS.
10. MOUNT ALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. NEAR CEILING HEIGHT FOR ACCESSIBILITY.
11. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL AND PROVIDE SLEEVES AS NECESSARY.
12. COORDINATE EXACT LOCATION OF PLUMBING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, DUCTWORK, MECHANICAL PIPING, MEDICAL GASES, FIRE PROTECTION AND OTHER TRADES, TYPICAL.
13. COORDINATE THE LOCATION OF THE FLOOR DRAIN, SHOWER DRAIN, OR FLOOR SINK WITH ARCHITECTURAL AND STRUCTURAL, TYPICAL.
14. ACCESS DOORS SHALL BE PROVIDED TO ALL WATER HAMMER ARRESTORS IN WALLS OR ABOVE CEILINGS.
15. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER TO/FROM SINGLE FIXTURE.
16. LOCATE CIRCUIT SETTERS, VALVES, WATER HAMMER ARRESTORS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE 24" X 24" ACCESS PANEL WHERE ITEM IS LOCATED ABOVE A HARD CEILING. PROVIDE APPROPRIATELY SIZED ACCESS DOORS TO ANY OF THESE ITEMS INSTALLED IN A WALL. COORDINATE ACCESS DOOR SIZE, LOCATION, AND STYLE WITH ARCHITECT.
17. ALL PIPE SIZES SHALL REMAIN THE SAME SIZE AS SHOWN IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
18. INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT INDICATED, ACCORDING TO THE ADOPTED PLUMBING CODE.

MEDICAL GAS GENERAL NOTES

1. MEDICAL GAS PIPING IS TO BE RUN ABOVE THE CEILING, UNLESS NOTED OTHERWISE.
2. MEDICAL GAS PIPING IS SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
3. MOUNT ALL SERVICE VALVES NEAR CEILING HEIGHT FOR ACCESSIBILITY.
4. PROVIDE FRANGIBLE LOCKS FOR ALL SERVICE VALVES.

MECHANICAL GENERAL NOTES

1. COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, TYPICAL.
2. SEE DETAIL FOR DIFFUSER CONNECTIONS TO DUCTWORK, TYPICAL.
3. BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK INLET SIZE OF THE DIFFUSERS, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE, TYPICAL.
4. COORDINATE EXACT MOUNTING LOCATION OF ALL THERMOSTATS WITH LATEST REVISION OF ARCHITECTURAL ELEVATION AND FURNISHINGS PLANS, TYPICAL.
5. 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.
6. PROVIDE AND INSTALL TURNING VANES IN ALL SQUARE LOW PRESSURE DUCTWORK AT ELBOWS OR TEES, TYPICAL.
7. INSTALL ALL TERMINAL BOXES IN EASILY ACCESSIBLE AND SERVICEABLE LOCATIONS, MEETING ALL MANUFACTURERS REQUIRED CLEARANCES ON EACH SIDE, SEE DETAILS, TYPICAL.
8. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. REFER TO MECHANICAL SPECIFICATIONS FOR EXTENT OF DUCT INSULATION AND LINER AND ADJUST SHEET METAL DIMENSION.
9. PROVIDE AND INSTALL REMOTE DAMPER OPERATORS FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING, SEE MECHANICAL SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS, TYPICAL.
10. PROVIDE AND INSTALL HIGH EFFICIENCY TAKE-OFF FITTINGS AND BALANCING DAMPER AT ALL BRANCH CONNECTIONS TO LOW PRESSURE DUCTWORK. PROVIDE BALANCING DAMPERS AT EACH BRANCH TAKE OFF TO SERVE DIFFUSER OR GRILLE AS WELL AS WHERE INDICATED.
11. PROVIDE AND INSTALL HIGH EFFICIENCY OR CONICAL TAKE-OFFS AT ALL BRANCH CONNECTIONS TO MEDIUM PRESSURE DUCTWORK.
12. WHERE DUCTWORK CROSSES, SUPPLY DUCTWORK IS USUALLY BELOW RETURN AND EXHAUST DUCT. RETURN DUCTWORK IS USUALLY BELOW EXHAUST DUCTS.
13. 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.
14. 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.
15. ALL VAV BOXES TO HAVE REHEAT COILS, EXCEPT AS NOTED. PROVIDE EQUIPMENT TAG TO MATCH SCHEDULE. PROVIDE A MINIMUM OF TWO DUCT DIAMETERS OF STRAIGHT ROUND DUCT TO INLET OF VAV BOX. BOX SHALL BE HARD CONNECTED (CONICAL) TO MEDIUM PRESSURE DUCT, TYPICAL.
16. PROVIDE ACCESS DOORS TO ACCESS VAV BOX CONTROLS ABOVE HARD CEILINGS. PROVIDE MINIMUM 24" X 24".
17. FLEX DUCT IS REQUIRED FOR ALL DIFFUSERS AND GRILLES INSTALLED IN LAY-IN CEILINGS. FOR DIFFUSERS AND GRILLES IN HARD LID CEILINGS, THE DUCTWORK SHALL BE EXTENDED ALL THE WAY TO THE DIFFUSER AND SHALL BE CONNECTED WITH A HARD CONNECTION OR A FLEX DUCT CONNECTION WITH A MUD RING AND LAY-IN DIFFUSER AS SHOWN ON PLANS.
18. THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
19. PROVIDE ACCESS TO ALL TEMPERATURE CONTROLS ABOVE CEILING. LOCATE IN ACCESSIBLE LOCATION. WHERE THERE ARE HARD CEILINGS THE CONTRACTOR SHALL PROVIDE 24" X 24" ACCESS DOOR.
20. SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
21. CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 5'-0" AFF., A MINIMUM OF 8" FROM LIGHT SWITCH, UNLESS OTHERWISE NOTED ON THE ARCHITECT'S ELEVATIONS. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
22. REFER TO MECHANICAL PIPING OR ZONING DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
23. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPINE SHALL BE TYPE "L" COPPER UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS.
24. PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT THAT IS FLOOR MOUNTED. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.
25. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS.
26. THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.

MECHANICAL PIPING GENERAL NOTES

1. 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 CODE.
2. UNLESS OTHERWISE NOTED: ALL MECHANICAL PIPING IS OVERHEAD TO RUN ABOVE DUCTWORK AND TIGHT TO UNDERSIDE OF STRUCTURE.
3. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
4. ALL VALVES SHALL BE INSTALLED SO THAT VALVES REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
5. PROVIDE AIR VENT AT HIGH POINT OF EACH DROP IN THE HEATING AND CHILLED WATER PIPING SYSTEM.
6. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION AND TAGGED.
7. PROVIDE ISOLATION VALVES AT EACH EXIST/ENTRANCE INTO SHAFT WHETHER OR NOT SHOWN.
8. COORDINATE LOCATION OF THERMOSTAT WITH ARCHITECTURAL FURNISHING PLANS. MOUNT THERMOSTAT AT HEIGHT AS SPECIFIED ON ARCHITECTURAL PLANS OR SPECIFICATIONS.

PROJECT GENERAL NOTES

1. THE PROJECT GENERAL NOTES APPLY TO ALL DISCIPLINES.
2. REMOVE ALL UNUSED PIPING, DUCTWORK, EQUIPMENT, AND ACCESSORIES.
3. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN THE SPACE AND WITHIN CLOSE PROXIMITY TO THE SPACE. THE CONTRACTOR WILL FIELD VERIFY AS MUCH AS IS REASONABLE BEFORE THE FINAL BID. AFTER THE FINAL BID THE CONTRACTOR WILL NOTIFY THE OWNER, ARCHITECT, AND MECHANICAL DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF EXISTING CONDITIONS THAT MAY AFFECT THE DESIGN.
4. WHERE EXISTING FLOOR DRAINS OCCUR WITH THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
5. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, EQUIPMENT, CEILINGS, ARCHITECTURAL COMPONENTS, AND ANYTHING ELSE PERTAINING TO THE PROJECT TO PREVENT CONFLICTS.
6. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES, INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
7. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATION BUILDING CODE, INTERNATIONAL MECHANICAL CODE, AND INTERNATIONAL PLUMBING CODE.
8. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
9. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
10. COORDINATE INSTALLATION OF DUCTWORK, PIPING AND MECHANICAL EQUIPMENT WITH NEC CLEARANCES INCLUDING THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. NO PIPING OR DUCTWORK 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. PROVIDE PANS IF REQUIRED UNDER PIPING.
11. TRANSITION PIPING AND DUCTWORK SIZES TO MATCH THE SIZE OF EQUIPMENT CONNECTION.
12. REFER TO PLUMBING SERIES DRAWINGS FOR GAS PIPING.
13. ALL PIPE AND DUCT SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
14. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
15. MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, BAS DEVICES, MAINTENANCE ACCESS, ETC.
16. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
17. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD, INCLUDING, BUT NOT LIMITED TO, OFFSETS AND TRANSITIONS. 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 TO AVOID INTERFERENCE IN THE FIELD.
18. IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
19. DETAILS REFERENCE ALL SHEETS.

* NOTE *
ALL OF THE GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.

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Intermountain Healthcare
Primary Children's Hospital - Ultrasound
100 MARIO CAPECCHI DRIVE
SALT LAKE CITY, UTAH 84113

PROJECT #: 00000

CONSTRUCTION DOCUMENTS
10/11/2022

	DATE	REVISION

REGISTERED PROFESSIONAL ENGINEER
No. 10188004-2202
JARED J. SMITH
10.11.2022
STATE OF UTAH

MECHANICAL GENERAL NOTES

M001

1 M011 LEVEL 1 THERMAL ZONE DIAGRAM
SCALE 1/4" = 1'-0"

N

KEYNOTES

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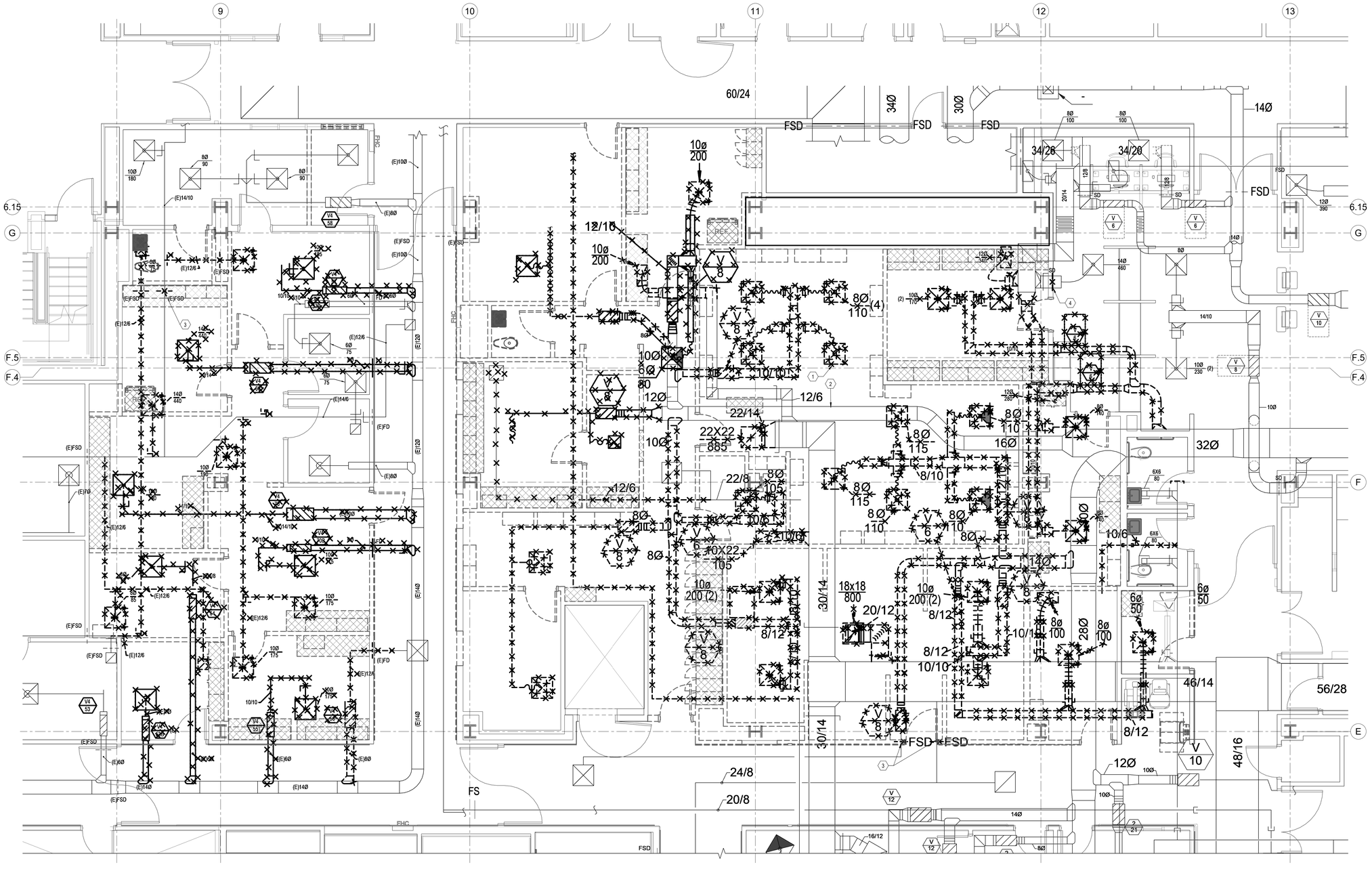
STATE OF UTAH

LEVEL 1 THERMAL ZONE PLAN

M011



1 MD101 LEVEL 1 HVAC PLAN DEMO
SCALE 1/4" = 1'-0"

KEYNOTES

1. EXISTING ELEMENTS SHOWN DARK WITH DASHED LINES TO BE DEMOLISHED, TYPICAL. DUCTWORK TO BE PATCHED AND SEALED.
2. EXISTING ELEMENTS SHOWN LIGHT TO REMAIN, TYPICAL.
3. EXISTING FIRE/SMOKE DAMPER IS TO BE REMOVED. ALL ASSOCIATED WIRING IS TO BE REMOVED.
4. EXISTING FIRE/SMOKE DAMPER IS TO BE REMOVED. ALL ASSOCIATED WIRING IS TO BE REMOVED.

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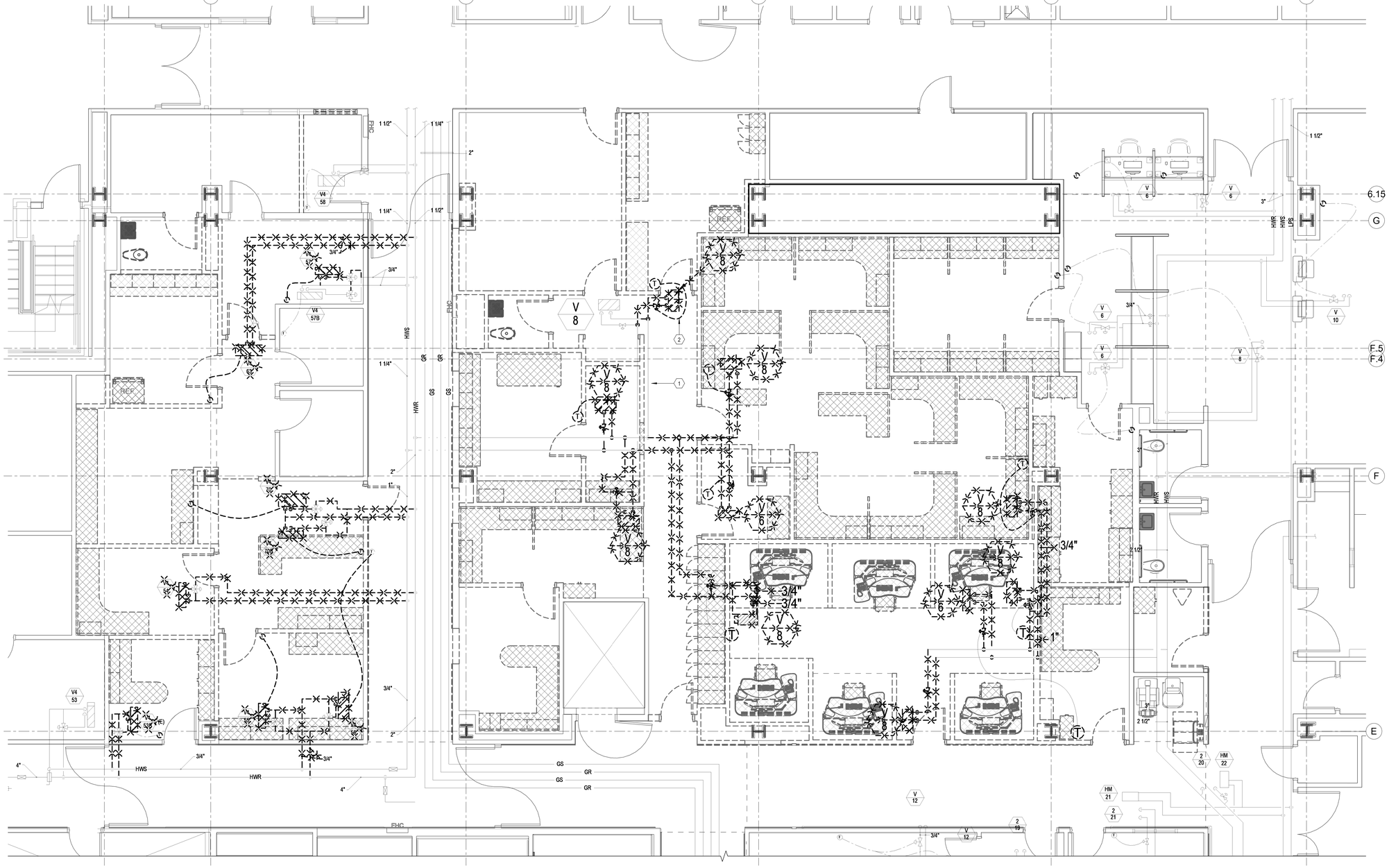
LEVEL 1 HVAC DEMO PLAN

MD101



1 MD111 LEVEL 1 MECHANICAL PIPING PLAN

SCALE 1/4" = 1'-0"

N

KEYNOTES

1. EXISTING ELEMENTS SHOWN DARK WITH "DASHED LINES" THROUGH IT TO BE DEMOLISHED, TYPICAL.
2. EXISTING ELEMENTS SHOWN LIGHT TO REMAIN, TYPICAL

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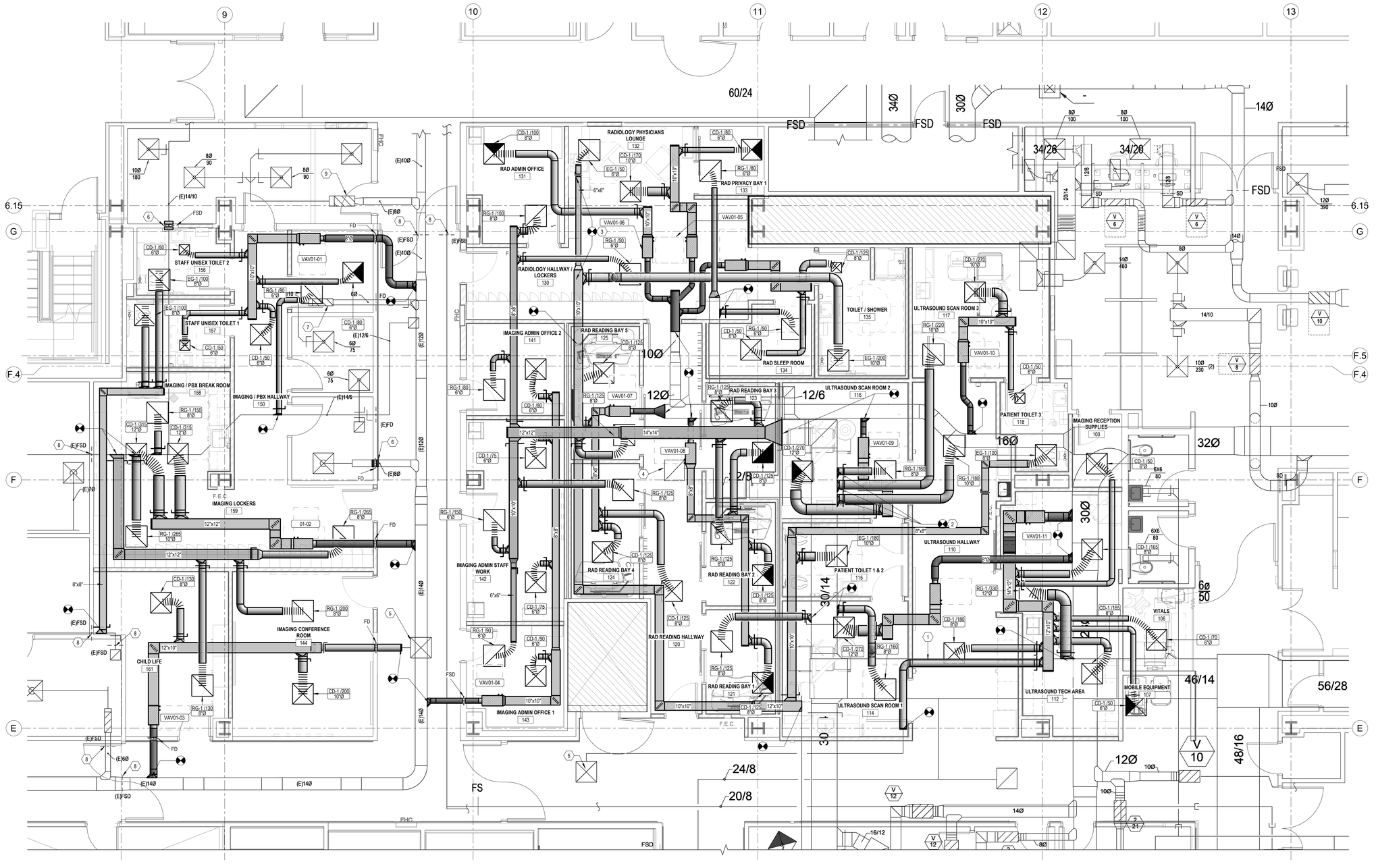
10.11.2022
STATE OF UTAH

LEVEL 1 MECHANICAL PIPING DEMO PLAN

MD111



1 M101 LEVEL 1 HVAC PLAN
SCALE 1/4" = 1'-0"

N

KEYNOTES

1. EXISTING ELEMENTS SHOWN LIGHT, TYPICAL.
2. CONNECT NEW DUCTWORK TO EXISTING AS SHOWN, TYPICAL.
3. INSTALL OFFSETS AS NECESSARY TO ACCOMODATE EXISTING ELEMENTS.
4. BALANCE DIFFUSER TO 125 CFM.
5. EXISTING DIFFUSER IS TO BE REBALANCED TO 200 CFM.
6. PROVIDE AND INSTALL NEW FIRE DAMPER AND INSTALL IN EXISTING DUCT AS SHOWN.
7. EXISTING VAV BOX IS CURRENTLY ON SIEMENS CONTROL SYSTEM. VAV BOX IS TO BE CONVERTED TO THE JOHNSON CONTROL SYSTEM. ALL VAV BOX SENSORS, ACTUATORS AND CONTROL UNITS ARE TO BE REMOVED AND REPLACE WITH JCI COMPONENTS. EXISTING HOT WATER CONROL VAVLE IS TO BE REMOVED AND REPLACED. HOT WATER IS TO BE REBALANCED TO 1 GPM. AIRFLOW PARAMETERS ARE TO BE RESET TO A CONSTANT VOLUME OF 120 CFM.
8. EXISTING COMBINATION FIRE/SMOKE DAMPER CONTAINS PNEUMATIC ACTUATOR. EXISTING PNEUMATIC ACTUATOR IS TO BE REMOVED AND REPLACED WITH DDC BELIMO ACTUATOR. MECHANICAL CONTRACTOR IS TO PROVIDE AND INSTALL ACTUATOR. TIE TO BUILDING FIRE ALARM SYSTEM.
9. EXISTING VAV BOX IS CURRENTLY ON SIEMENS CONTROL SYSTEM. VAV BOX IS TO BE CONVERTED TO THE JOHNSON CONTROL SYSTEM. ALL VAV BOX SENSORS, ACTUATORS AND CONTROL UNITS ARE TO BE REMOVED AND REPLACE WITH JCI COMPONENTS. EXISTING HOT WATER CONROL VAVLE IS TO BE REMOVED AND REPLACED. HOT WATER IS TO BE REBALANCED TO 1 GPM. AIRFLOW PARAMETERS ARE TO BE RESET TO A CONSTANT VOLUME OF 270 CFM.

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JARED J. SMITH
10.11.2022
STATE OF UTAH

LEVEL 1 HVAC PLAN

M101

NOTE: INDIVIDUAL VAV BOXES HAVE BEEN ADDED TO EACH READING BAY AS AN ADD ALTERNATE. BASE AND ALTERNATE PRICING IS TO BE PROVIDED TO OWNER.

KEYNOTES

1. EXISTING ELEMENTS SHOWN LIGHT, TYPICAL.
2. CONNECT NEW DUCTWORK TO EXISTING AS SHOWN, TYPICAL.
3. INSTALL OFFSETS AS NECESSARY TO ACCOMODATE EXISTING ELEMENTS.
4. BALANCE DIFFUSER TO 125 CFM.
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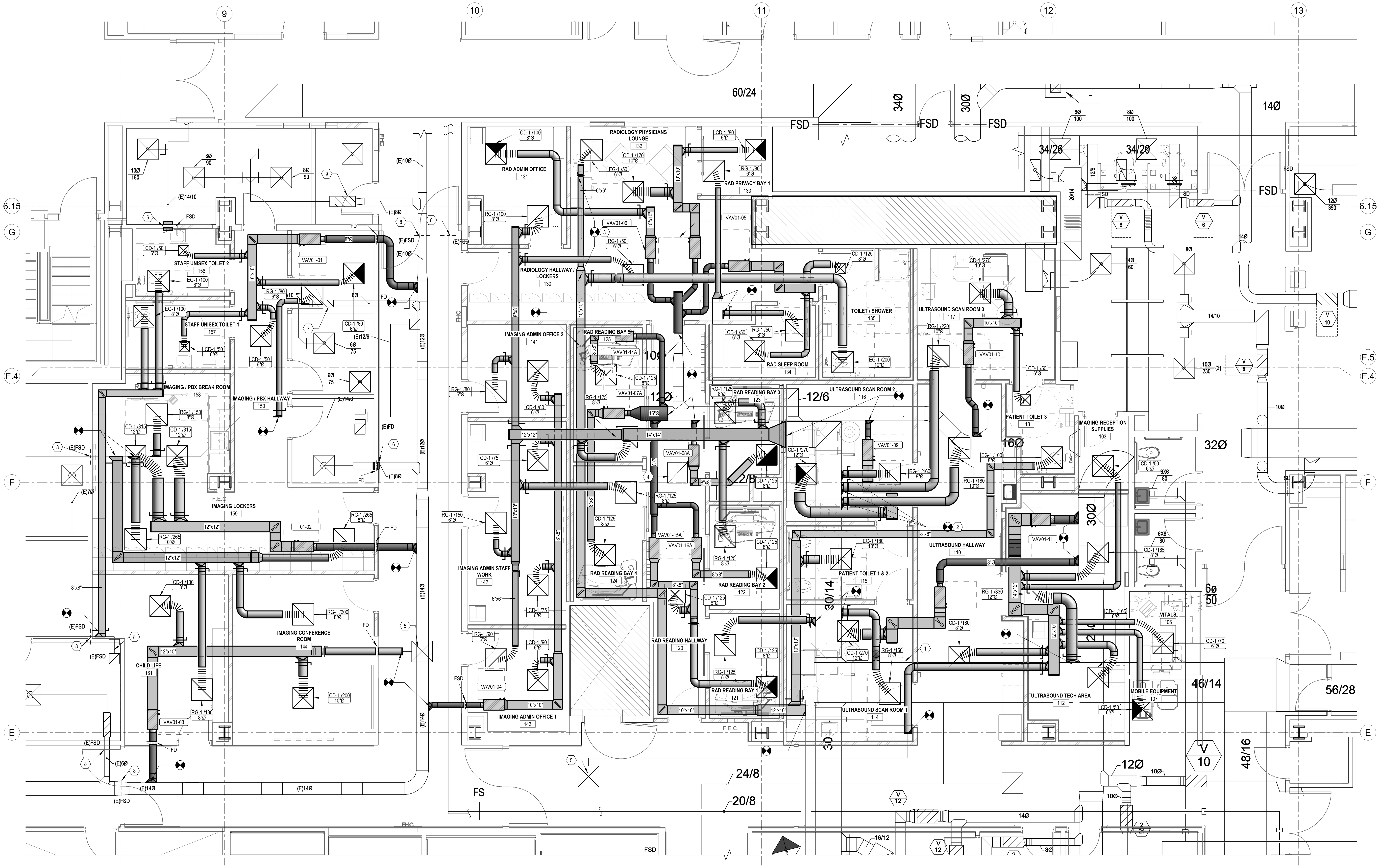

1 M101A LEVEL 1 HVAC PLAN
1/4" = 1'-0"

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CONSTRUCTION DOCUMENTS
10/11/2022

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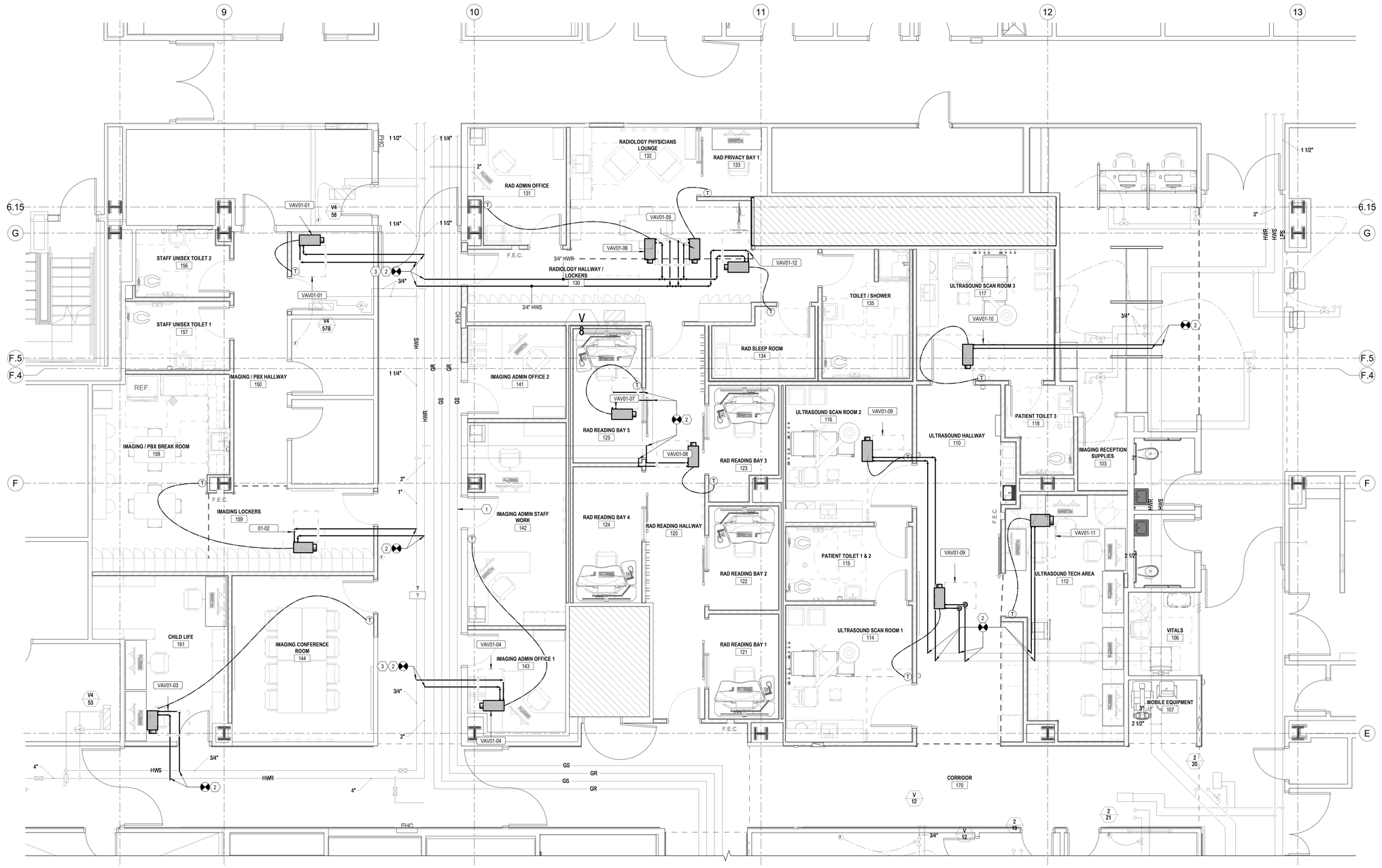
JARED J. SMITH
10.11.2022
STATE OF UTAH

LEVEL 1 HVAC PLAN ALTERNATE

M101A



1 M111 LEVEL 1 MECHANICAL PIPING PLAN
SCALE 1/4" = 1'-0"

N

KEYNOTES

1. EXISTING ELEMENTS SHOWN LIGHT, TYPICAL.
2. CONNECT NEW MECHANICAL PIPING FROM VAV BOXES TO EXISTING LINES AS SHOWN.
3. INSTALL OFFSETS AS NECESSARY TO ACCOMODATE EXISTING ELEMENTS.

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CONSTRUCTION DOCUMENTS 10/11/2022		
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REGISTERED PROFESSIONAL ENGINEER
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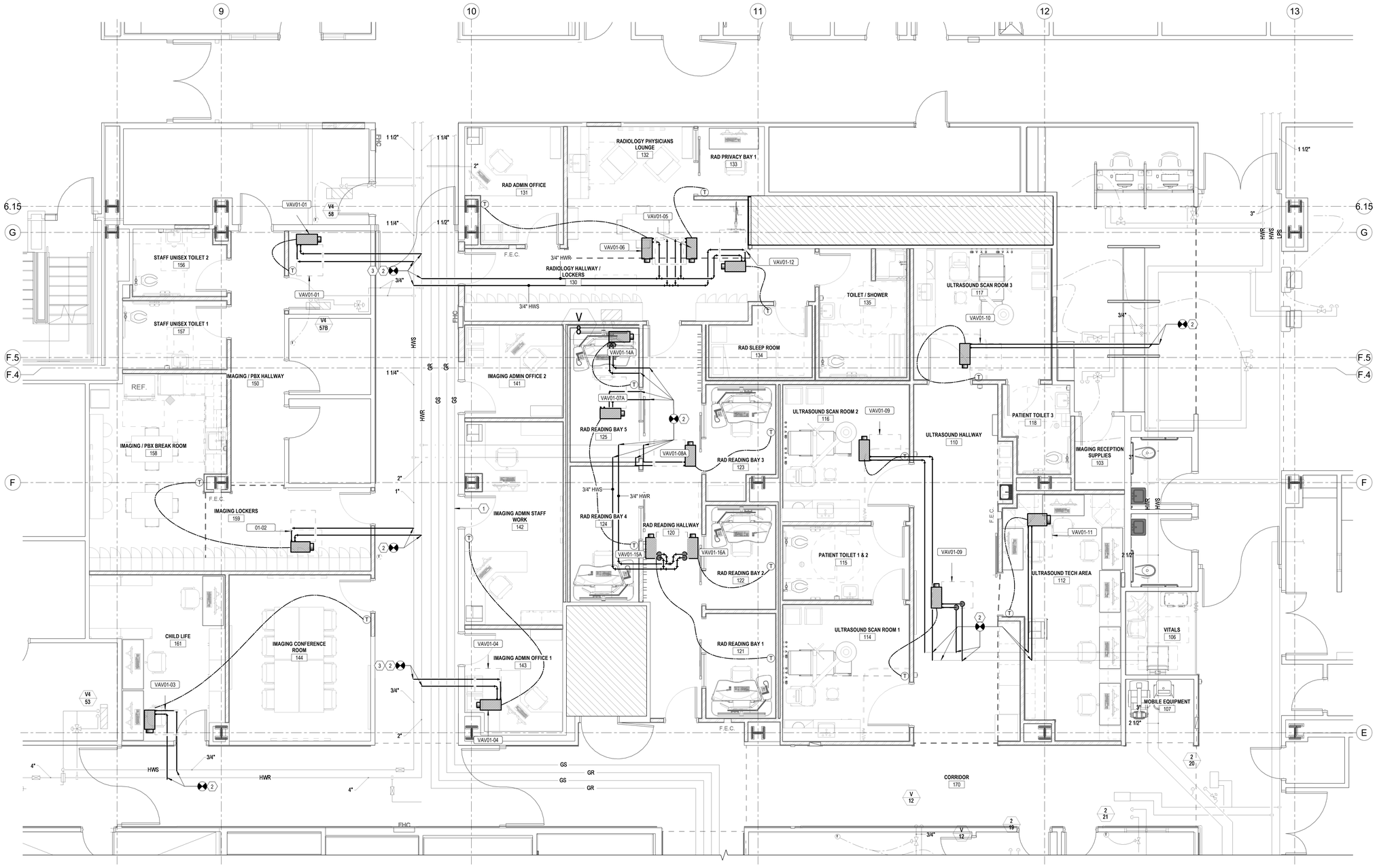
JARED J. SMITH
10.11.2022
STATE OF UTAH

LEVEL 1 MECHANICAL PIPING PLAN

M111

NOTE: INDIVIDUAL VAV BOXES HAVE BEEN ADDED TO EACH READING BAY AS AN ADD ALTERNATE. BASE AND ALTERNATE PRICING IS TO BE PROVIDED TO OWNER.



1 / M111A LEVEL 1 MECHANICAL PIPING PLAN
1/4" = 1'-0"

KEYNOTES

1. EXISTING ELEMENTS SHOWN LIGHT, TYPICAL.
2. CONNECT NEW MECHANICAL PIPING FROM VAV BOXES TO EXISTING LINES AS SHOWN.
3. INSTALL OFFSETS AS NECESSARY TO ACCOMODATE EXISTING ELEMENTS.

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REGISTERED PROFESSIONAL ENGINEER
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JARED J. SMITH
10.11.2022
STATE OF UTAH
RENEWAL: 12/31/2023

LEVEL 1 MECHANICAL PIPING ALTERNATE

M111A

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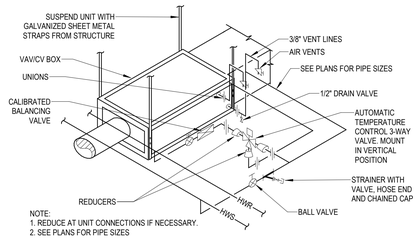
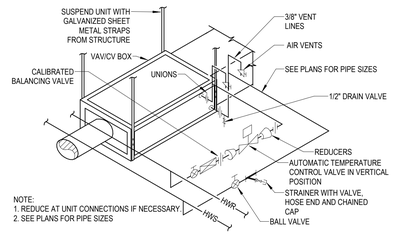
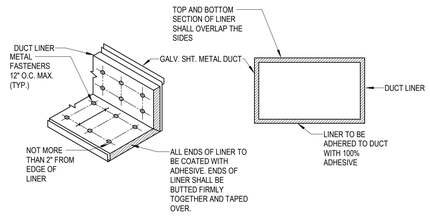


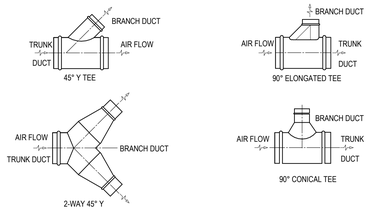
1 M501 VAV/CV TERMINAL UNIT WITH 3-WAY CONTROL VALVE DETAI3
12" = 1'-0"



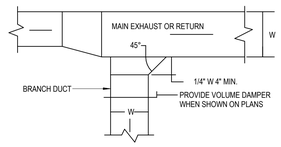
2 M501 VAV/CV TERMINAL UNIT WITH 2-WAY CONTROL VALVE DETAIL
12" = 1'-0"



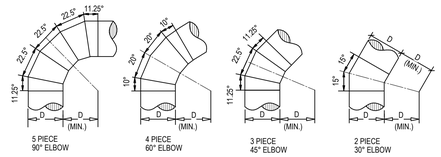
3 M501 RECTANGULAR DUCT LINER DETAIL
12" = 1'-0"



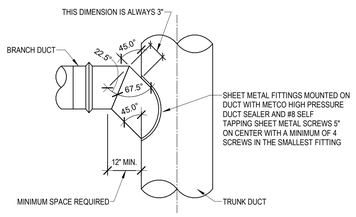
4 M501 ROUND DUCT BRANCH TAKE-OFF DETAIL
12" = 1'-0"



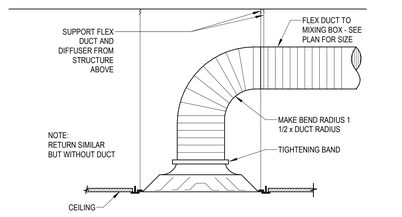
5 M501 EXHAUST AND/OR RETURN BRANCH DUCT DETAIL
12" = 1'-0"



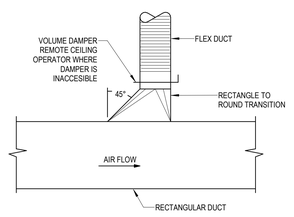
6 M501 ROUND DUCT ELBOWS DETAIL
12" = 1'-0"



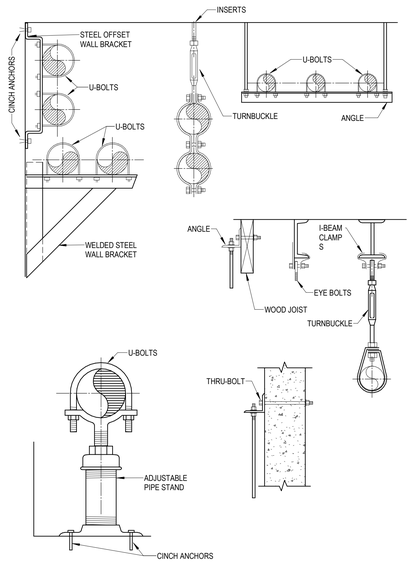
7 M501 CONSTRUCTION OF 45-90 DEGREE TEE FITTING AND MOUNTING METHODxx
12" = 1'-0"



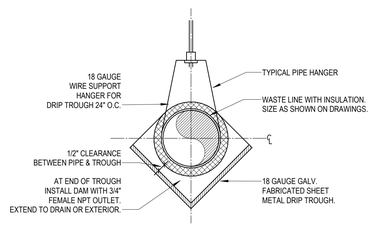
8 M501 DIFFUSER CONNECTION DETAIL
12" = 1'-0"



9 M501 FLEX DUCT WITH HIGH EFFICIENCY FITTING DETAIL
12" = 1'-0"



10 M501 TYPICAL PIPE SUPPORT DETAIL
12" = 1'-0"



11 M501 CROSS SECTIONAL DETAIL OF DRIP TROUGH
12" = 1'-0"

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No. 10188004-2202
JARED J. SMITH
10.11.2022
STATE OF UTAH

MECHANICAL DETAILS

M501

VAV BOX SCHEDULE

Mechanical Equipment Number	Manufacturer	Inlet Size	Cooling Airflow	Heating Airflow	Min Airflow	Entering Air Temperature	Leaving Air Temperature	S.P. Loss at Max CFM	Flow Rate	Entering Water Temperature	Leaving Water Temperature	Working Fluid	Head Loss Feet	Min. Number of Rows/Fins Per Inch	Valve Type	Branch Diameter	NOTE
01-01	TITUS -ESV-3	0' - 6"	230 CFM	230 CFM	80 CFM	52.0 °F	107.5 °F	0.046	1.0 GPM	180.0 °F	156.5 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-02	TITUS -ESV-3	0' - 8"	630 CFM	420 CFM	145 CFM	55.0 °F	101.5 °F	0.347	1.5 GPM	180.0 °F	156.0 °F	WATER	0.4775	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-03	TITUS -ESV-3	0' - 8"	530 CFM	420 CFM	145 CFM	52.0 °F	99.6 °F	0.257	1.5 GPM	180.0 °F	155.4 °F	WATER	0.4775	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-04	TITUS -ESV-3	0' - 6"	320 CFM	240 CFM	80 CFM	52.0 °F	106.3 °F	0.082	1.0 GPM	180.0 °F	155.9 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-05	TITUS -ESV-3	0' - 6"	100 CFM	100 CFM	80 CFM	52.0 °F	132.5 °F	0.01	1.0 GPM	180.0 °F	165.1 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-06	TITUS -ESV-3	0' - 6"	250 CFM	240 CFM	80 CFM	52.0 °F	106.3 °F	0.05	1.0 GPM	180.0 °F	155.9 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-07	TITUS -ESV-3	0' - 6"	375 CFM	240 CFM	80 CFM	52.0 °F	106.3 °F	0.11	1.0 GPM	180.0 °F	155.9 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-08	TITUS -ESV-3	0' - 6"	375 CFM	240 CFM	80 CFM	52.0 °F	106.3 °F	0.11	1.0 GPM	180.0 °F	155.9 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-09	TITUS -ESV-3	0' - 6"	270 CFM	240 CFM	80 CFM	52.0 °F	106.3 °F	0.058	1.0 GPM	180.0 °F	155.9 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-10	TITUS -ESV-3	0' - 6"	320 CFM	240 CFM	80 CFM	52.0 °F	106.3 °F	0.082	1.0 GPM	180.0 °F	155.9 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-11	TITUS -ESV-3	0' - 10"	880 CFM	660 CFM	230 CFM	55.0 °F	100.6 °F	0.318	2.0 GPM	180.0 °F	152.2 °F	WATER	0.47	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-12	TITUS -ESV-3	0' - 6"	175 CFM	175 CFM	80 CFM	52.0 °F	115.3 °F	0.03	1.0 GPM	180.0 °F	159.6 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-13	TITUS -ESV-3	0' - 6"	270 CFM	240 CFM	80 CFM	52.0 °F	106.3 °F	0.058	1.0 GPM	180.0 °F	155.9 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5

1. MAXIMUM DISCHARGE NC AT BOX DIFFENTIAL PRESSURE BASED ON ARI STANDARD 880-89
2. COIL HEATING CAPACITY BASED ON HEATING MAXIMUM AIR FLOW (60% OF MAXIMUM COOLING CFM).
3. MINIMUM CFM IS LOWEST CONTROLLABLE CFM SETTING (BASED ON 400 FPM INLET VELOCITY).
4. MAXIMUM STATIC PRSSURE DROP PERMISSABLE ACROSS BOX AND COIL AT MAXIMUM COOLING CFM.
5. PRESSURE INDEPENDENT TYPE BOX.

VAV BOX SCHEDULE ALTERNATE

Mechanical Equipment Number	Manufacturer	Inlet Size	Cooling Airflow	Heating Airflow	Min Airflow	Entering Air Temperature	Leaving Air Temperature	S.P. Loss at Max CFM	Flow Rate	Entering Water Temperature	Leaving Water Temperature	Working Fluid	Head Loss Feet	Min. Number of Rows/Fins Per Inch	Valve Type	Branch Diameter	NOTE
01-01	TITUS -ESV-3	0' - 6"	230 CFM	230 CFM	80 CFM	52.0 °F	107.5 °F	0.046	1.0 GPM	180.0 °F	156.5 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-02	TITUS -ESV-3	0' - 8"	630 CFM	420 CFM	145 CFM	55.0 °F	101.5 °F	0.347	1.5 GPM	180.0 °F	156.0 °F	WATER	0.4775	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-03	TITUS -ESV-3	0' - 8"	530 CFM	420 CFM	145 CFM	52.0 °F	99.6 °F	0.257	1.5 GPM	180.0 °F	155.4 °F	WATER	0.4775	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-04	TITUS -ESV-3	0' - 6"	320 CFM	240 CFM	80 CFM	52.0 °F	106.3 °F	0.082	1.0 GPM	180.0 °F	155.9 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-05	TITUS -ESV-3	0' - 6"	100 CFM	100 CFM	80 CFM	52.0 °F	132.5 °F	0.01	1.0 GPM	180.0 °F	165.1 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-06	TITUS -ESV-3	0' - 6"	250 CFM	240 CFM	80 CFM	52.0 °F	106.3 °F	0.05	1.0 GPM	180.0 °F	155.9 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-07A	TITUS -ESV-3	0' - 6"	125 CFM	125 CFM	80 CFM	52.0 °F	125.2 °F	0.015	1.0 GPM	180.0 °F	163.1 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-08A	TITUS -ESV-3	0' - 6"	125 CFM	125 CFM	80 CFM	52.0 °F	125.2 °F	0.015	1.0 GPM	180.0 °F	163.1 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-09	TITUS -ESV-3	0' - 6"	270 CFM	240 CFM	80 CFM	52.0 °F	106.3 °F	0.058	1.0 GPM	180.0 °F	155.9 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-10	TITUS -ESV-3	0' - 6"	320 CFM	240 CFM	80 CFM	52.0 °F	106.3 °F	0.082	1.0 GPM	180.0 °F	155.9 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-11	TITUS -ESV-3	0' - 10"	880 CFM	660 CFM	230 CFM	55.0 °F	100.6 °F	0.318	2.0 GPM	180.0 °F	152.2 °F	WATER	0.47	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-12	TITUS -ESV-3	0' - 6"	175 CFM	175 CFM	80 CFM	52.0 °F	115.3 °F	0.03	1.0 GPM	180.0 °F	159.6 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-13	TITUS -ESV-3	0' - 6"	270 CFM	240 CFM	80 CFM	52.0 °F	106.3 °F	0.058	1.0 GPM	180.0 °F	155.9 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-14A	TITUS -ESV-3	0' - 6"	125 CFM	125 CFM	80 CFM	52.0 °F	125.2 °F	0.015	1.0 GPM	180.0 °F	163.1 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-15A	TITUS -ESV-3	0' - 6"	250 CFM	240 CFM	80 CFM	52.0 °F	106.3 °F	0.05	1.0 GPM	180.0 °F	155.9 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5
01-16A	TITUS -ESV-3	0' - 6"	125 CFM	125 CFM	80 CFM	52.0 °F	125.2 °F	0.015	1.0 GPM	180.0 °F	163.1 °F	WATER	0.12	2/10	2 Way Valve	3/4"	1,2,3,4,5

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5. PRESSURE INDEPENDENT TYPE BOX.

DIFFUSER, REGISTER, AND GRILLES

Diffuser Callout	Manufacturer	Model	Max NC	Diffuser Description
CD-1	PRICE	SPD	25	SQUARE PLAQUE FACE CEILING DIFFUSERS: REMOVABLE FACE, FRAME SHALL BE FOR LAY-IN MOUNTING OR SURFACE MOUNT AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24"X24" OR 12"X12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. HARD LID CEILING TO BE 24"X24" OR 12"X12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE WITH LAY-IN PLASTER FRAME. FINISH AS SELECTED BY ARCHITECT.
EG-1	PRICE	PDDR	25	PERFORATED GRILLE: FRAME SHALL BE FOR LAY-IN MOUNTING OR SURFACE MOUNT AS REQUIRED BY TYPE. LAY-IN FRAMES SHALL BE 24"X24" OR 24"X12" TO FIT CEILING SPACE AVAILABLE. HARD LID CEILING TO BE 24"X24" OR 12"X12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE. PROVIDE ROUND/RECTANGULAR NECK SIZE AS INDICATED ON DRAWINGS. FINISH AS SELECTED BY ARCHITECT.
RG-1	PRICE	PDDR	25	PERFORATED GRILLE: FRAME SHALL BE FOR LAY-IN MOUNTING OR SURFACE MOUNT AS REQUIRED BY TYPE. LAY-IN FRAMES SHALL BE 24"X24" OR 24"X12" TO FIT CEILING SPACE AVAILABLE. HARD LID CEILING TO BE 24"X24" OR 12"X12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE. PROVIDE ROUND/RECTANGULAR NECK SIZE AS INDICATED ON DRAWINGS. FINISH AS SELECTED BY ARCHITECT.

JRCA ARCHITECTS
A Galloway Co.
577 South 200 East
SLC, Utah 84111
O: (801) 533-2100
GallowayUS.com
jrcadesign.com

VBFA
181 East 5600 South
Murray, Utah 84107
O: (801)530-3148
www.vbfa.com
VBFA Project #: 21576

Intermountain Healthcare
Primary Children's Hospital - Ultrasound

100 MARIO CAPECCHI DRIVE
SALT LAKE CITY, UTAH 84113

PROJECT #: 00000

CONSTRUCTION DOCUMENTS 10/11/2022		
△	DATE	REVISION

REGISTERED PROFESSIONAL ENGINEER
No. 10180004-2202
JARED J. SMITH
10.11.2022
STATE OF UTAH

MECHANICAL SCHEDULES

M601

GENERAL MECHANICAL SYMBOLS

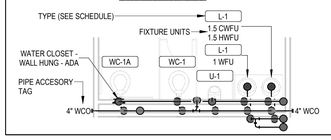
- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- POINT WHERE EXISTING IS TO BE DEMOLISHED
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION SYMBOL
- Room 10 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- 2" — PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- PIPE SLOPE TAG
- 1/8" / 12" SLOPE — BELOW GROUND PIPING
- INVERT: -105' - 1" — PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FD	FIRE DAMPER	RH	RELATIVE HUMIDITY
FDV	FIRE DEPARTMENT VALVE	RL/A	RELIEF AIR
FL	FLOOR	RM	ROOM
FO	FUEL OIL	RPM	REVOLUTIONS PER MINUTE
FOV	FUEL OIL VENT	RW	RAIN WATER
FOR	FUEL OIL RETURN	SF	SQUARE FOOT
FOS	FUEL OIL SUPPLY	S/A	SUPPLY AIR
FPM	FEET PER MINUTE	SAN	SANITARY
FS	FLOOR SINK	SF	SQUARE FOOT
FT	FOOT/FEET	SD	SMOKE DAMPER
FTR	FIN TUBE RADIATION	SM	SURFACE MOUNT
GAL	GALLON	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

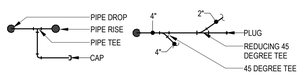
PLUMBING AND PIPING SYMBOLS

PLUMBING FIXTURE TAGS

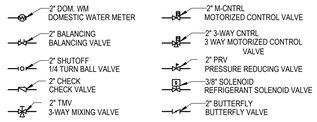


PLUMBING AND PIPING SYMBOLS

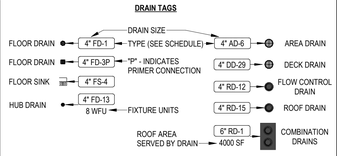
- CHWR — CHILLED WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CD — CONDENSATE DRAINAGE
- CWR — CONDENSER WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- GWR — GEOTHERMAL WATER RETURN
- GWS — GEOTHERMAL WATER SUPPLY
- HWR — HEATING WATER RETURN
- HWS — HEATING WATER SUPPLY
- NG — NATURAL GAS
- PG — PROPANE GAS
- REF-L — REFRIGERANT-LIQUID
- REF-S — REFRIGERANT-SUCTION
- REF-HG — REFRIGERANT-HOT GAS
- STM — STEAM
- CDR — CONDENSATE RETURN
- CWV — COMBINATION WASTE & VENT
- CA — COMPRESSED AIR
- DCW — DOMESTIC COLD WATER
- H-CW — HARD COLD WATER
- S-CW — SOFT COLD WATER
- F-CW — FILTERED COLD WATER
- RO — REVERSE OSMOSIS WATER
- DHW — HOT WATER
- DHW 140° — HOT WATER 140°
- DHW-R — HOT WATER RECIRCULATION
- DHW-R 140° — HOT WATER RECIRCULATION 140°
- GV — GREASE VENT
- GW — GREASE WASTE
- IW — INDIRECT WASTE
- OV — OIL VENT
- OW — OIL WASTE
- PD — PUMP DISCHARGE
- V — SANITARY VENT
- W — SANITARY WASTE
- SHWR — SOLAR HOT WATER RETURN
- SHWS — SOLAR HOT WATER SUPPLY
- RD — ROOF DRAINAGE
- RDO — ROOF DRAIN OVERFLOW
- CO2 — CARBON DIOXIDE
- HE — HELIUM
- IA — INSTRUMENT AIR
- MA — MEDICAL AIR
- MV — MEDICAL VACUUM
- N2 — NITROGEN
- N2O — NITROUS OXIDE
- O2 — OXYGEN
- WAGD — WASTE ANESTHESIA GAS DISPOSAL



PIPE ACCESSORY TAGS



DRAIN TAGS



PLUMBING GENERAL NOTES

1. 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.
2. PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
3. 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.
4. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
5. EXISTING 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.
6. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS AND OTHER REQUIREMENTS.
7. CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY. INSTALL FLUSH VALVES HANDLES ON WIDE SIDE OF ALL FIXTURES.
8. INSTALL ALL DOMESTIC WATER LINES BELOW DUCTWORK.
9. INSTALL A 24" X 24" ACCESS DOOR BELOW ALL ISOLATION VALVES, BALANCING VALVES AND WATER HAMMER ARRESTORS WHERE MOUNTED ABOVE HARD CEILINGS.
10. MOUNT ALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. NEAR CEILING HEIGHT FOR ACCESSIBILITY.
11. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL AND PROVIDE SLEEVES AS NECESSARY.
12. COORDINATE EXACT LOCATION OF PLUMBING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, DUCTWORK, MECHANICAL PIPING, MEDICAL GASES, FIRE PROTECTION AND OTHER TRADES, TYPICAL.
13. COORDINATE THE LOCATION OF THE FLOOR DRAIN, SHOWER DRAIN, OR FLOOR SINK WITH ARCHITECTURAL AND STRUCTURAL, TYPICAL.
14. ACCESS DOORS SHALL BE PROVIDED TO ALL WATER HAMMER ARRESTORS IN WALLS OR ABOVE CEILINGS.
15. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER TO/FROM SINGLE FIXTURE.
16. LOCATE CIRCUIT SETTERS, VALVES, WATER HAMMER ARRESTORS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE 24" X 24" ACCESS PANEL WHERE ITEM IS LOCATED ABOVE A HARD CEILING. PROVIDE APPROPRIATELY SIZED ACCESS DOORS TO ANY OF THESE ITEMS INSTALLED IN A WALL. COORDINATE ACCESS DOOR SIZE, LOCATION, AND STYLE WITH ARCHITECT.
17. ALL PIPE SIZES SHALL REMAIN THE SAME SIZE AS SHOWN IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
18. INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT INDICATED, ACCORDING TO THE ADOPTED PLUMBING CODE.

MEDICAL GAS GENERAL NOTES

1. MEDICAL GAS PIPING IS TO BE RUN ABOVE THE CEILING, UNLESS NOTED OTHERWISE.
2. MEDICAL GAS PIPING IS SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
3. MOUNT ALL SERVICE VALVES NEAR CEILING HEIGHT FOR ACCESSIBILITY.
4. PROVIDE FRANGIBLE LOCKS FOR ALL SERVICE VALVES.

PROJECT GENERAL NOTES

1. THE PROJECT GENERAL NOTES APPLY TO ALL DISCIPLINES.
2. REMOVE ALL UNUSED PIPING, DUCTWORK, EQUIPMENT, AND ACCESSORIES.
3. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN THE SPACE AND WITHIN CLOSE PROXIMITY TO THE SPACE. THE CONTRACTOR WILL FIELD VERIFY AS MUCH AS IS REASONABLE BEFORE THE FINAL BID. AFTER THE FINAL BID, THE CONTRACTOR WILL NOTIFY THE OWNER, ARCHITECT, AND MECHANICAL DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF EXISTING CONDITIONS THAT MAY AFFECT THE DESIGN.
4. WHERE EXISTING FLOOR DRAINS OCCUR WITH THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
5. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, EQUIPMENT, CEILINGS, ARCHITECTURAL COMPONENTS, AND ANYTHING ELSE PERTAINING TO THE PROJECT TO PREVENT CONFLICTS.
6. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES, INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
7. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATION BUILDING CODE, INTERNATIONAL MECHANICAL CODE, AND INTERNATIONAL PLUMBING CODE.
8. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
9. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
10. COORDINATE INSTALLATION OF DUCTWORK, PIPING AND MECHANICAL EQUIPMENT WITH NEC CLEARANCES INCLUDING THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. NO PIPING OR DUCTWORK 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. PROVIDE PANS IF REQUIRED UNDER PIPING.
11. TRANSITION PIPING AND DUCTWORK SIZES TO MATCH THE SIZE OF EQUIPMENT CONNECTION.
12. REFER TO PLUMBING SERIES DRAWINGS FOR GAS PIPING.
13. ALL PIPE AND DUCT SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
14. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
15. MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, BAS DEVICES, MAINTENANCE ACCESS, ETC.
16. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
17. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD, INCLUDING, BUT NOT LIMITED TO, OFFSETS AND TRANSITIONS. 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 TO AVOID INTERFERENCE IN THE FIELD.
18. IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
19. DETAILS REFERENCE ALL SHEETS.

NOTE
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

PLUMBING SHEET INDEX

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VBFA Project #: 21576

Intermountain Healthcare
Primary Children's Hospital - Ultrasound
100 MARIO CAPECCHI DRIVE
SALT LAKE CITY, UTAH 84113

PROJECT #: 00000

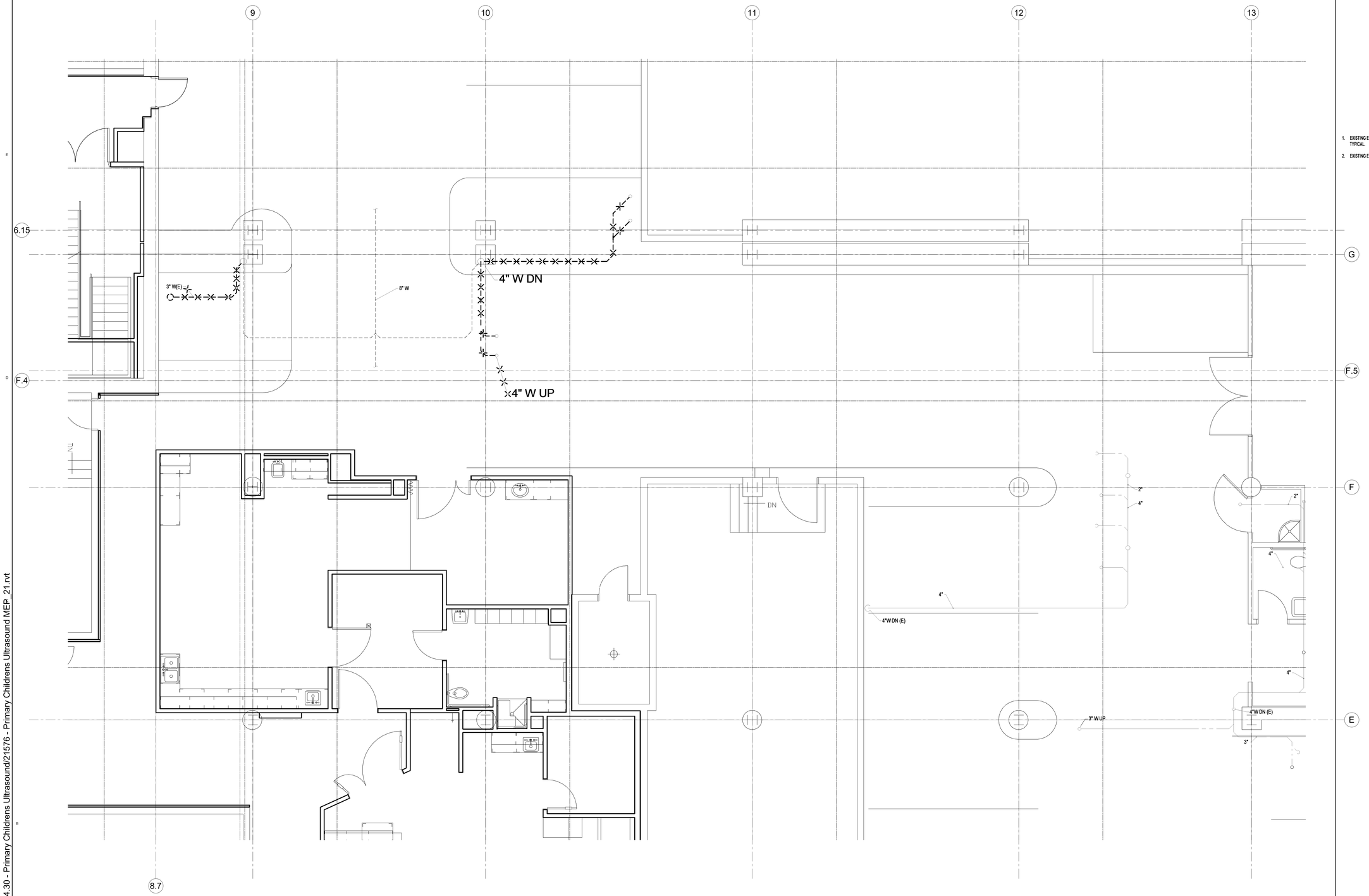
CONSTRUCTION DOCUMENTS
10/11/2022

	DATE	REVISION

REGISTERED PROFESSIONAL ENGINEER
No. 10188004-2202
JARED J. SMITH
10.11.2022
STATE OF UTAH

PLUMBING
TITLE SHEET

P000



1 PD100 BASEMENT PLUMBING PLAN
1/4" = 1'-0"

GENERAL NOTES:

1. EXISTING ELEMENTS SHOWN DARK WITH DASHED LINES TO BE DEMOLISHED, TYPICAL.
2. EXISTING ELEMENTS SHOWN LIGHT TO REMAIN, TYPICAL.

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JARED J. SMITH
10.11.2022
STATE OF UTAH

BASEMENT LEVEL PLUMBING DEMO PLAN

PD100

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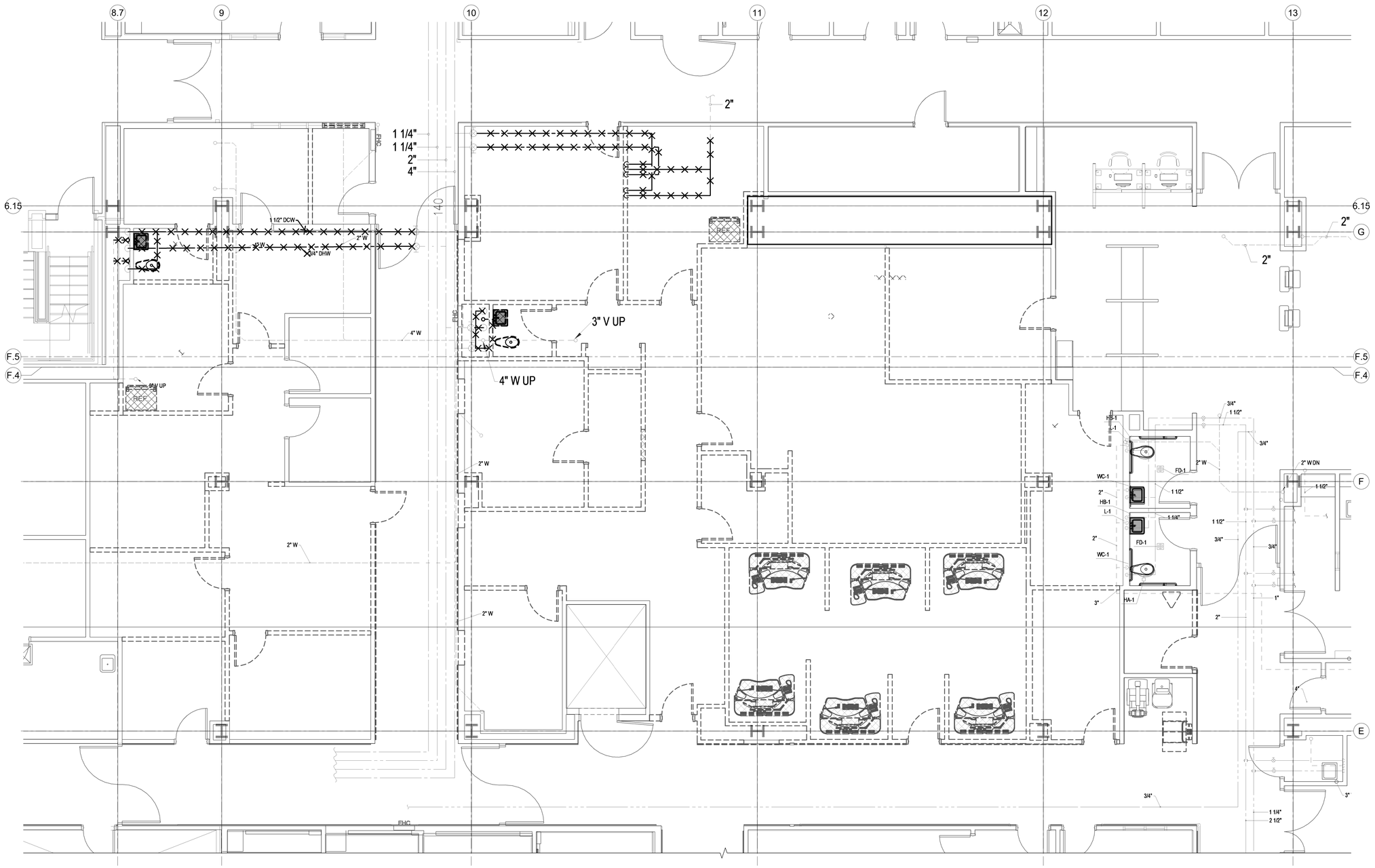

1 PD101 LEVEL 1 PLUMBING PLAN
SCALE 1/4" = 1'-0"

N

KEYNOTES

GENERAL NOTES:

1. EXISTING ELEMENTS SHOWN DARK WITH DASHED LINES TO BE DEMOLISHED, TYPICAL.
2. EXISTING ELEMENTS SHOWN LIGHT TO REMAIN, TYPICAL.

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LEVEL 1 PLUMBING DEMO PLAN

PD101

KEYNOTES

1. CONNECT NEW 4" W TO EXISTING 4" W.
2. CONNECT NEW 2" W TO EXISTING 4" W.
3. CONNECT NEW 2" W TO EXISTING 2" W.
4. CONNECT NEW 3" W TO EXISTING 3" W.
6. PROVIDE AND INSTALL DRAIN PAN UNDER ALL WASTE PIPING IN ELECTRICAL ROOM. PROVIDE DRAIN TO DRAIN PAN AND TERMINATE TO CORNER OF ELECTRICAL ROOM. PROVIDE AND INSTALL WATER BUG ON FLOOR AT TERMINATION POINT OF DRAIN PIPE. WATER BUG IS TO ALERT BMS UPON MOISTURE DETECTION.

9 10 11 12 13

6.15 F.4 G F.5 F E 8.7

4" W DN

8" W

2" V UP

4" W DN (E)

3" W UP

1 P100 BASEMENT PLUMBING PLAN
1/4" = 1'-0"

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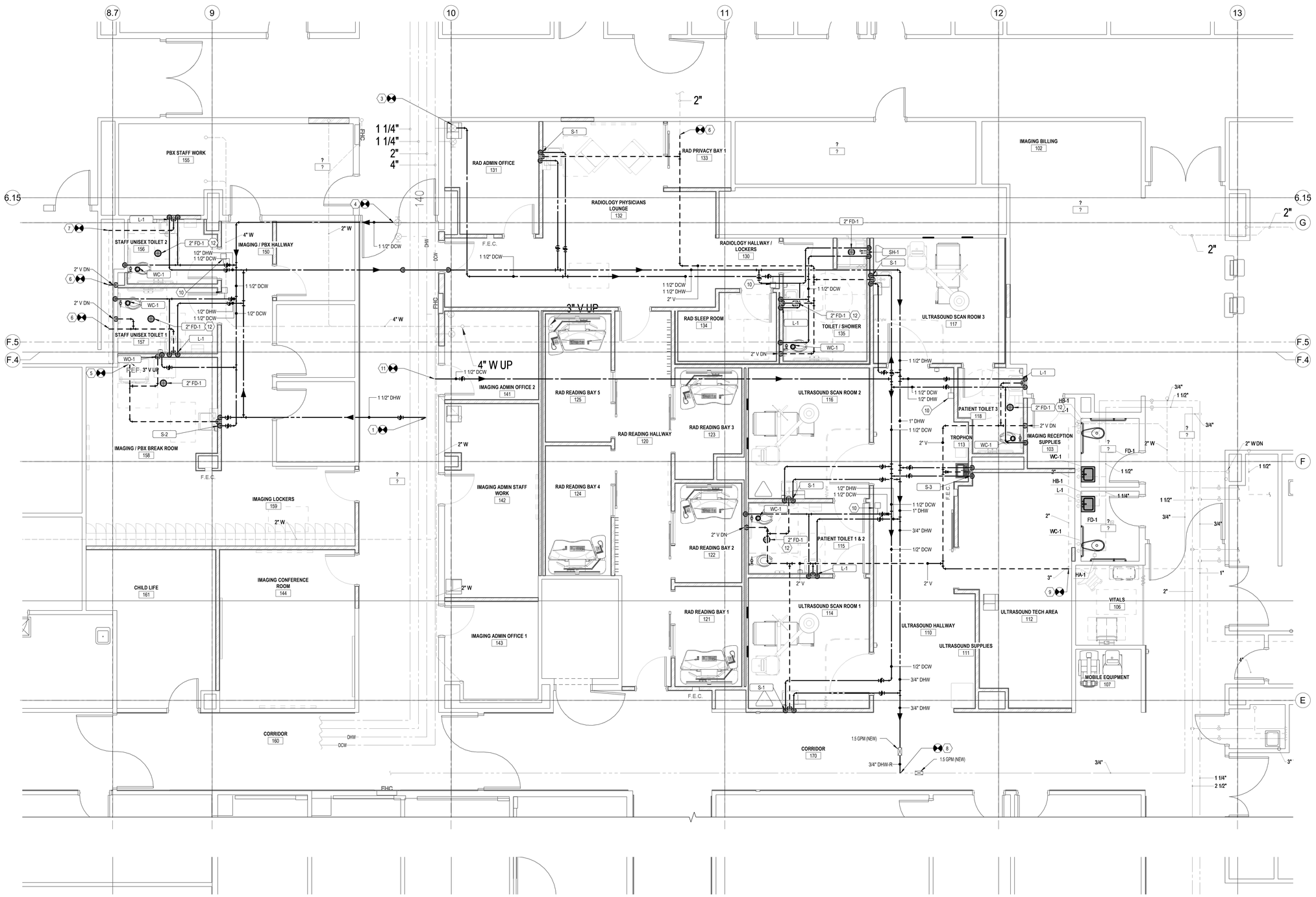
No. 10188004-2202
JARED J. SMITH
10.11.2022
STATE OF UTAH

BASEMENT LEVEL PLUMBING PLAN

P100



1 P101 LEVEL 1 PLUMBING PLAN
SCALE 1/4" = 1'-0"

KEYNOTES

1	CONNECT NEW 1-1/2" DHW TO EXISTING 2" DHW. COORDINATE THE SHUT DOWN OF ANY WATER MAINS WITH OWNER.
3	CONNECT NEW 1-1/2" DCW TO EXISTING 1-1/2" DCW.
4	CONNECT NEW 1-1/2" DCW TO EXISTING 1-1/2" DCW.
5	CONNECT NEW 1-1/2" V TO EXISTING 3" V UP.
6	CONNECT 2" V TO EXISTING 2" V.
7	CONNECT NEW 1-1/2" V TO EXISTING 2" V.
8	CONNECT 3/4" DHWR TO EXISTING 3/4" DHWR.
9	CONNECT NEW 2" V TO EXISTING 3" V.
10	PROVIDE WATER HAMMER ARRESTOR DOWNSTREAM OF ISOLATION VALVE.
11	CONNECT NEW 1-1/2" DCW TO EXISTING 4" DCW.
12	COORDINATE LOCATION OF FLOOR DRAIN WITH ARCHITECTURAL DRAWINGS.

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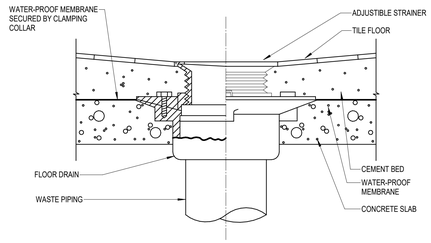
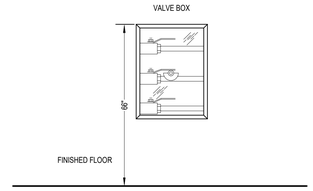
10.11.2022
STATE OF UTAH

LEVEL 1 PLUMBING PLAN

P101



1 P501 FLOOR / SHOWER DRAIN DETAIL
12" = 1'-0"



2 P501 MEDICAL GAS MOUNTING HEIGHT DETAIL
12" = 1'-0"

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CONSTRUCTION DOCUMENTS
10/11/2022

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REGISTERED PROFESSIONAL ENGINEER
No. 10180804-2202
JARED J. SMITH
10.11.2022
STATE OF UTAH

PLUMBING DETAILS

P501

PLUMBING FIXTURE SCHEDULE

ID	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	DESCRIPTION	SPECIFICATION
WC-1	WATER CLOSET	1	-.-	4	2	FLOOR MOUNTED, MANUAL FLUSH VALVE	WATER CLOSET: KOHLER K-96057 HIGHCLIFF VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL TOILET WITH K-4670-C LUSTRA OPEN FRONT SEAT, ADA TOILET; SLOAN WES-111 MANUAL DUAL FLUSH, 1.6 GPF AND 1.1 GPF FLUSH VALVE; INSTALL ACTUATOR ON WIDE SIDE OF FIXTURE.
L-1	LAVATORY	1/2	1/2	1 1/2	1 1/2	WALL HUNG, VITREOUS CHINA, GOOSENECK FAUCET WITH WRISTBLADES	LAVATORY: KOHLER K2030, GREENWICH, 20" X 18", VITREOUS CHINA, WALL MOUNTED LAVATORY WITH FRONT OVERFLOW. PROVIDE CHICAGO 786-GN2FCJKABCP FAUCET, WITH WRIST BLADE HANDLES, GN2FC RIGID/SWING GOOSE NECK SPOUT WITH 0.5 GPM LAMINAR FLOW CONTROL IN SPOUT; PROVIDE CHICAGO 131-FMAB THERMOSTATIC MIXING VALVE; SLOAN EFT-470-A CHECK VALVES ON HOT AND COLD LINES; FLEXIBLE STAINLESS STEEL SUPPLIES WITH WITH LOOSE KEY ANGLE STOPS. CHICAGO 327-XCP OPEN-GRID STRAINER AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG. SMITH 0700-Z CONCEALED ARM CHAIR CARRIER WITH FOOT SUPPORT. PROVIDE ADA COMPLIANT UNDER COUNTER PIPING WRAP BY TRUE-BRO, COLOR TO BE WHITE.
S-1	SCAN ROOM SINK	1/2	1/2	2	1 1/2	COUNTER MOUNTED, STAINLESS STEEL, WITH WRIST BLADES	SINK: JUST SLN-ADA-17519-16-GR 16" X 11.5" X 5-1/2" I.D. COUNTER MOUNT 16 GA. STAINLESS STEEL SINK WITH 3 HOLES ON 8" CENTERS DRILLING. CHICAGO 786-GN8FCXKABCP FAUCET, WITH WRIST BLADE HANDLES, GN8FC RIGID/SWING GOOSENECK SPOUT WITH 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT. FLEXIBLE STAINLESS STEEL SUPPLIES WITH WITH LOOSE KEY ANGLE STOPS. CAST BRASS P-TRAP WITH CLEAN OUT PLUG, AND JUST J-35-FS OPEN-GRID STRAINER MOUNTED FLUSH WITH SINK BOTTOM.
S-2	BREAKROOM SINK	1/2	1/2	1 1/2	1 1/2	COUNTER MOUNTED, STAINLESS STEEL, WITH WRIST BLADES	SINK (STAINLESS STEEL, COUNTER MOUNTED, SINGLE COMPARTMENT): JUST SLN-ADA-2125-A-GR 18 GA. TYPE 304 STAINLESS STEEL SINK,16" X 22" X 5-1/2" DEEP BASIN WITH INTEGRA DRAIN, SELF RIMMING, 8" CENTERS DRILLING.CHICAGO 786-GN8FCJKABCP FAUCET, WITH WRIST BLADE HANDLES WITH 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT; J-35-FS OPEN-GRID STRAINER MOUNTED FLUSH WITH SINK BOTTOM. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS, CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.
SH-1	SHOWER	1/2	1/2	-.-	-.-	SHOWER	SHOWER (ADA COMPLIANT): CHICAGO SH-TP4-00-024 THERMOSTATIC / PRESSURE BALANCE DRAINING SHOWER VALVE WITH LEVER HANDLE; 1.5 GPM HAND SPRAY WITH PAUSE CONTROL; ADJUSTBABLE HIGH LIMIT STOP SCREW. INTEGRAL SERVICE STOPS WITH CHECKS, (2) 34" SS HOSES WITH AUTOMATIC HOSE DRAIN, INLINE BREAKER, WALL CONNECTION AND ADA GRAB AND SLIDE BAR FOR HAND SHOWER MOUNTING.
FD-1	FLOOR DRAIN	-.-	-.-	2	1 1/2	FLOOR DRAIN	FLOOR DRAIN : SMITH 2005Y-A FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6" ROUND NICKEL BRONZE ADJUSTABLE ROUND STRAINER HEAD WITH SECURED GRATE AND DEEP SEAL P-TRAP
WO-1	WATER OUTLET	1/2"	-.-	2	1 1/2	WATER OUTLET	WATER OUTLET BOX: WATER-TITE 82112 WASHING MACHINE OUTLET BOX WITH DRAIN QUARTER TURN BALL VALVE FOR USE WITH ICE AND SODA MACHINE. INSTALL ONLY COLD WATER BALL VALVE. NOTCH COUNTERTOP BACK-SPLASH AND INSTALL OUTLET BOX DRAIN FLUSH WITH COUNTERTOP. PROVIDE WITH PVC TRAP.

MEDICAL GAS OUTLETS SCHEDULE

		# OF OUTLETS									PIPE DROP SIZE TO OUTLET(S)									
SYMBOL	ROOM TYPE	O2	MA	MV	WAGD	N20	N	CO2	DV	DA	O2	MA	MV	WAGD	NO	N	CO2	DV	DA	REMARKS
MO-1	ULTRASOUND	2	2	2	-.-	-.-	-.-	-.-	-.-	-.-	1/2	1/2	3/4	-.-	-.-	-.-	-.-	-.-	-.-	1,2

UNLESS NOTED OTHERWISE, ALL OUTLETS ARE CHEMETRON-STYLE QUICK-CONNECTS
OUTLETS IN "MEDICAL EQUIPMENT" ARE SUPPLIED WITH THE PIECE OF EQUIPMENT
REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT LOCATION AND PLACEMENT OF OUTLETS.
1. PIPE DROP SIZES ARE FOR ONE SET OF OUTLETS
2. WALL MOUNTED OUTLETS

MEDICAL GAS VALVE SCHEDULE

		PIPE SIZE (INCHES)										
SYMBOL	AREA SERVED	OX	DV	DA	MA	MV	WAGD	NO	N	CO2	CA	REMARKS
MV-1	ULTRASOUND	1/2	-.-	-.-	1/2	3/4	-.-	-.-	-.-	-.-	-.-	1

1. ALL VALVE BOXES TO COME WITH WITH GAUGES

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Intermountain Healthcare
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PROJECT #: 00000

CONSTRUCTION DOCUMENTS 10/11/2022	
DATE	REVISION

REGISTERED PROFESSIONAL ENGINEER
No. 10180004-2202
JARED J. SMITH
10.11.2022
STATE OF UTAH

PLUMBING SCHEDULES

P601

KEYNOTES

1 CONNECT NEW 1/2" O2, 1/2" MA, AND 3/4" MV LINES TO EXISTING 1/2" O2, 1/2" MA, AND 3/4" MV LINES.

KEYNOTES

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JARED J. SMITH
10.11.2022
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LEVEL 1
MEDICAL GAS
PLAN

MG101

1 MG101 Medical Gas Plan-01
SCALE 1/4" = 1'-0"

GENERAL MECHANICAL SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION SYMBOL
- Room 9 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- 2" — PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- BELOW GROUND PIPING
- INVERT: -105' - 1" — PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FD	FIRE DAMPER	RH	RELATIVE HUMIDITY
FDV	FIRE DEPARTMENT VALVE	RL/A	RELIEF AIR
FL	FLOOR	RM	ROOM
FO	FUEL OIL	RPM	REVOLUTIONS PER MINUTE
FOV	FUEL OIL VENT	RW	RAIN WATER
FOR	FUEL OIL RETURN	SF	SQUARE FOOT
FOS	FUEL OIL SUPPLY	S/A	SUPPLY AIR
FPM	FEET PER MINUTE	SAN	SANITARY
FS	FLOOR SINK	SF	SQUARE FOOT
FT	FOOT/FEET	SD	SMOKE DAMPER
FTR	FIN TUBE RADIATION	SM	SURFACE MOUNT
GAL	GALLON	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

FIRE PROTECTION SYMBOLS

- FP-D — FIRE PROTECTION DRY
- FP-O — FIRE PROTECTION OTHER
- FP-PA — FIRE PROTECTION PRE-ACTION
- FP-W — FIRE PROTECTION WET
- FP-DOM-W — COMBINATION FIRE & DOMESTIC
- UPRIGHT SPRINKLER HEAD
- PENDENT SPRINKLER HEAD
- RECESSED SPRINKLER HEAD
- CONCEALED SPRINKLER HEAD
- 'D' REPRESENTS DRY SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
- 48"x18" S/A — OBSTRUCTION FROM DUCTWORK 48" AND GREATER
- PIPE DROP
- PIPE RISE
- PIPE TEE
- REDUCING 45 DEGREE TEE
- 45 DEGREE TEE

PIPE ACCESSORY TAGS

- 2" DOM. WM — DOMESTIC WATER METER
- 2" BALANCING — BALANCING VALVE
- 2" SHUTOFF — 1/4 TURN BALL VALVE
- 2" CHECK — CHECK VALVE
- 2" TMV — 3-WAY MIXING VALVE
- 2" M-CNTRL — MOTORIZED CONTROL VALVE
- 2" 3-WAY CNTRL — 3 WAY MOTORIZED CONTROL VALVE
- 2" PRV — PRESSURE REDUCING VALVE
- 3/8" SOLENOID — REFRIGERANT SOLENOID VALVE
- 2" BUTTERFLY — BUTTERFLY VALVE

FIRE SPRINKLER PIPING SCHEDULE

NPS 1: SCHEDULE 40 OR THREADED THIN WALL, THREADED ENDS

NPS 2 1-1/4 THRU 2: SCHEDULE 40 OR THREADABLE THIS WALL, GROOVED ENDS, OR THREADED ENDS.

NPS 2-1/2 THRU 4: SCHEDULE 40, GROOVED ENDS, WELDED OUTLETS.

NPS 6 AND LARGER: SCHEDULE 40 OR SCHEDULE 10, GROOVED FITTINGS, WELDED OUTLETS.

WATER SUPPLY INFORMATION

STATIC PRESSURE:	## PSI
RESIDUAL PRESSURE:	## PSI
RESIDUAL FLOW:	#### GPM
TEST PERFORMED BY:	NAME
TEST DATE:	DATE
TEST LOCATION:	LOCATION

* NOTE *
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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 REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
2. ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
3. 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.
4. FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND/OR REROUTE ANY AND ALL FIRE PROTECTION PIPING, VALVING, SUPPORTS OR SYSTEMS, OTHERWISE WITHIN THE FIRE SUPPRESSION DISCIPLINE REGARDLESS OF WHO INSTALLED THEM OR WHEN THEY WERE INSTALLED, IN ORDER TO ACCOMMODATE MECHANICAL, PLUMBING, ELECTRICAL OR OTHER SYSTEMS. COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING OR OTHER CONTRACTORS UNTIL SUBSTANTIAL COMPLETION OF PROJECT.
5. PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND REMOVE AND REPLACE ANY EXISTING ALLIED XL PIPING.
6. THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
7. THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
8. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
9. DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
10. ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
11. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
12. AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
13. AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
14. SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
15. ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM. BRANCH LINE TO ENTER ROOM ABOVE DOOR.
16. THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
17. THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.
18. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING FIRE PUMP DATA FOR HYDRAULIC CALCULATIONS.

AUTOMATIC SPRINKLER SYSTEM DESIGN CRITERIA

SYMBOL	OCCUPANCY HAZARD CLASSIFICATION	DESIGN DENSITY (GPM/SF)	DESIGN AREA
R	RESIDENTIAL (DWELLING) OCCUPANCY	0.05	400 SF
LH	LIGHT HAZARD OCCUPANCY	0.10	1500 SF
OH1	ORDINARY HAZARD, GROUP 1 OCCUPANCY	0.15	1500 SF
S	SPECIAL HAZARD OCCUPANCY		

OCCUPANCY HAZARD CLASSIFICATION...

LOCATION NO.	NAME	AREA	OCCUPANCY HAZARD CLASSIFICATION SYMBOL
01	STAFF UNISEX TOILET 2	55 SF	(none)
02	STAFF UNISEX TOILET 1	65 SF	(none)
03	PBX OFFICE 2	63 SF	(none)
04	IMAGING /PBX HALLWAY	125 SF	(none)
05	IMAGING /PBX BREAKROOM	227 SF	(none)
06	IMAGING LOCKERS	127 SF	(none)
07	CHILD LIFE	174 SF	(none)
08	IMAGING CONFERENCE	216 SF	(none)
09	IMAGING ADMIN OFFICE 1	89 SF	(none)
10	IMAGING ADMIN STAFF WORK	181 SF	(none)
11	RAD READING BAY 4	86 SF	(none)
12	RAD READING BAY 5	85 SF	(none)
13	IMAGING ADMIN OFFICE 2	84 SF	(none)
14	RAD READING HALLWAY	204 SF	(none)
15	RADIOLOGY/HALLWAY LOCKERS	205 SF	(none)
16	RAD ADMIN OFFICE	100 SF	(none)
17	RADIOLOGY PHYSICIANS LOUNGE	183 SF	(none)
18	RAD PRIVACY BAY 1	42 SF	(none)
19	RAD SLEEP ROOM	60 SF	(none)
20	TOILET/SHOWER	101 SF	(none)
21	ULTRASOUND SCAN ROOM 3	166 SF	(none)
22	RAD READING BAY 3	68 SF	(none)
23	RAD READING BAY 2	67 SF	(none)
24	ULTRASOUND SCAN ROOM 2	159 SF	(none)
25	PATIENT TOILET 1 & 2	84 SF	(none)
26	ULTRASOUND HALLWAY	278 SF	(none)
27	TROPHON	8 SF	(none)
28	PATIENT TOILET 3	50 SF	(none)
29	IMAGING RECEPTION SUPPLIES	34 SF	(none)
30	ULTRASOUND SUPPLIES	25 SF	(none)
31	ULTRASOUND TECH AREA	238 SF	(none)
32	VITALS	55 SF	(none)
33	MOBILE EQUIPMENT	40 SF	(none)
34	ULTRASOUND SCAN ROOM 1	159 SF	(none)
35	EXISTING READING ROOM	85 SF	(none)
36	EXISTING SLEEP ROOM	68 SF	(none)
37	RAD READING BAY 1	67 SF	(none)
Grand total: 37		4120 SF	

MECHANICAL SHEET INDEX

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VBFA Project #: 21576

Intermountain Healthcare
Primary Children's Hospital - Ultrasound
100 MARIO CAPECCHI DRIVE
SALT LAKE CITY, UTAH 84113

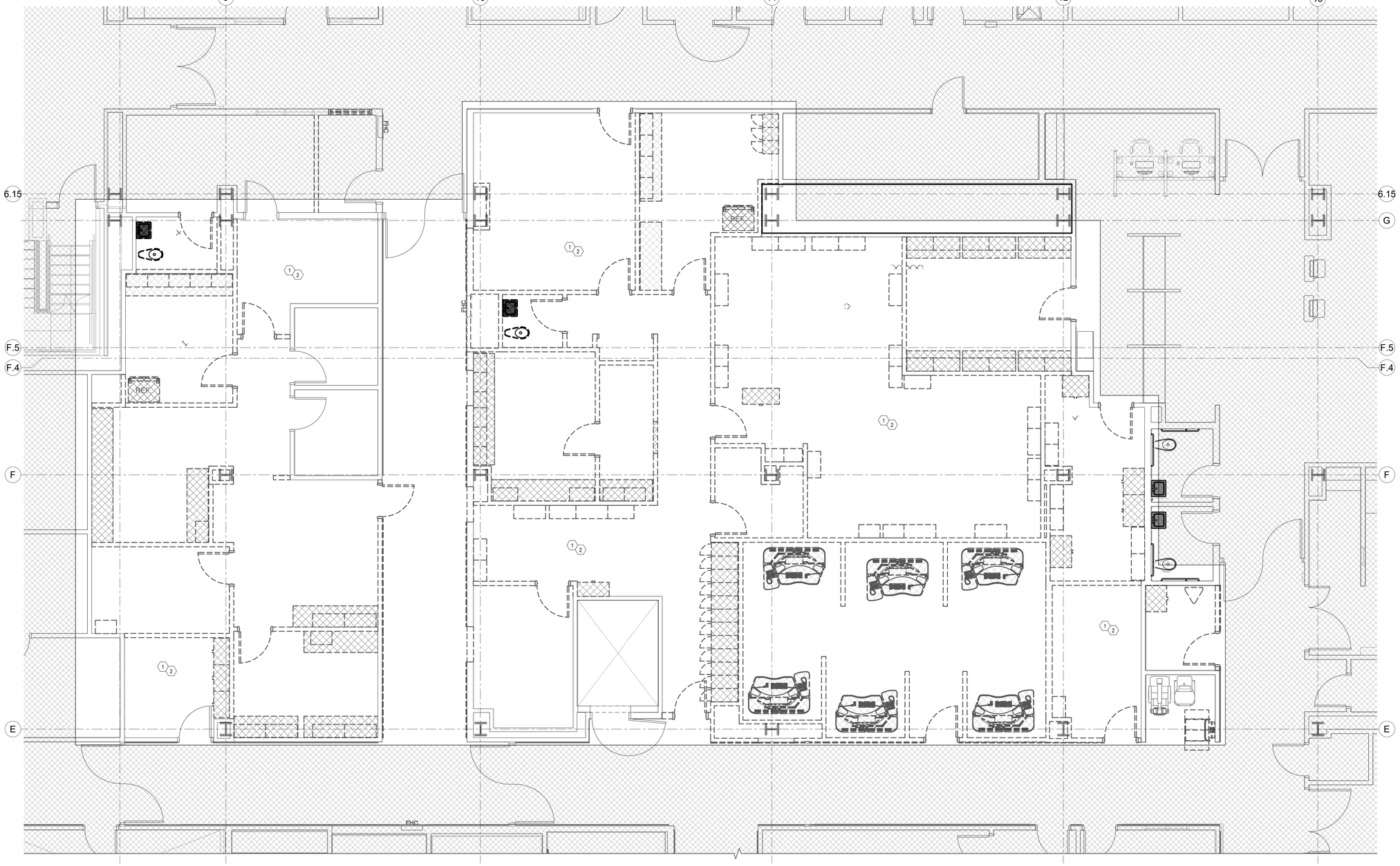
PROJECT #: 00000

CONSTRUCTION DOCUMENTS 10/11/2022	
DATE	REVISION

REGISTERED PROFESSIONAL ENGINEER
No. 10188004-2202
JARED J. SMITH
10.11.2022
STATE OF UTAH

FIRE PROTECTION TITLE SHEET

F001



1 FD101 LEVEL 1 FIRE PROTECTION PLAN
SCALE 1/4" = 1'-0"

N

KEYNOTES

THE FIRE SPRINKLER CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE EXISTING SPRINKLERS. ADD/REPOSITION EXISTING SPRINKLER LOCATION WITH NEW SPRINKLER HEAD AS NECESSARY FOR THE REMODELED SPACE. INCLUDING NEW FLOOR PLAN CEILING PLAN AND CEILING HEIGHT ADJUSTMENTS, MODIFY SPRINKLER PIPING AS REQUIRED. TYPICAL. REFER TO THE ARCHITECTURAL SHEETS FOR COMPLETE SCOPE OF THE PROJECT.

REMOVE AND REPLACE ANY ALLIED XL PIPING IN REMODEL AREA.

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LEVEL 1 FIRE PROTECTION DEMO PLAN

FD101

1 F101 LEVEL 1 FIRE PROTECTION PLAN

SCALE 1/4" = 1'-0"

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ALL SPRINKLERS IN THE REMODELED AREA ARE TO BE REPLACED WITH QUICK RESPONSE TYPE. REPLACEMENT OF SPRINKLERS SHALL EXTEND TO ALL WALLS OR SOFFIT BREAKS.

FIRE SPRINKLERS SHALL BE INSTALLED TO MEET NFPA 13-2016 REQUIREMENTS, TYPICAL.

REMOVE AND REPLACE ANY ALLIED XL PIPING IN REMODEL AREA.

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