State of Utah

GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

Department of Administrative Services
KIMBERLY K. HOOD
Executive Director

Division of Facilities Construction and Management
BRUCE WHITTINGTON
Interim Director

Addendum No. 1

Date:	May 7, 2015
To:	All Prospective Commissioning Agents
From:	Dave McKay – Project Manager
Reference:	Building Systems Commissioning – Farmington Healthcare Center University of Utah – Farmington, Utah DFCM Project No. 14345750
Subject:	**Addendum No. 1**

Pages	Addendum Cover Sheet	1	page
	Layton/Dixon Design/Construction Schedule	1	page
	Drawings	6	pages
	Mechanical Program	14	pages
	Total	22	pages

Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.

1.1 SCHEDULE CHANGES: There are no Project Schedule changes.

1.2 GENERAL ITEMS:

1.2.1 **Organization Chart**: The only "ORGANIZATION CHART" required is the one for "TAB TWO"

1.2.2 **Resumes:** A brief resume is intended for the organizational chart. A more detailed background of experience, qualifications, and team connection is the intent of "TAB SIX: Statement of Qualifications."

1.2.3 **References and Past Performance**: Place reference information for non-DFCM projects in a new tab—"TAB EIGHT"

1.2.4 **Commissioning Scope of Work:** Commissioning of fire protection systems is not required, nor is there any atrium smoke control required.

1.2.5 See attached Layton/Dixon Design/Construction Schedule.

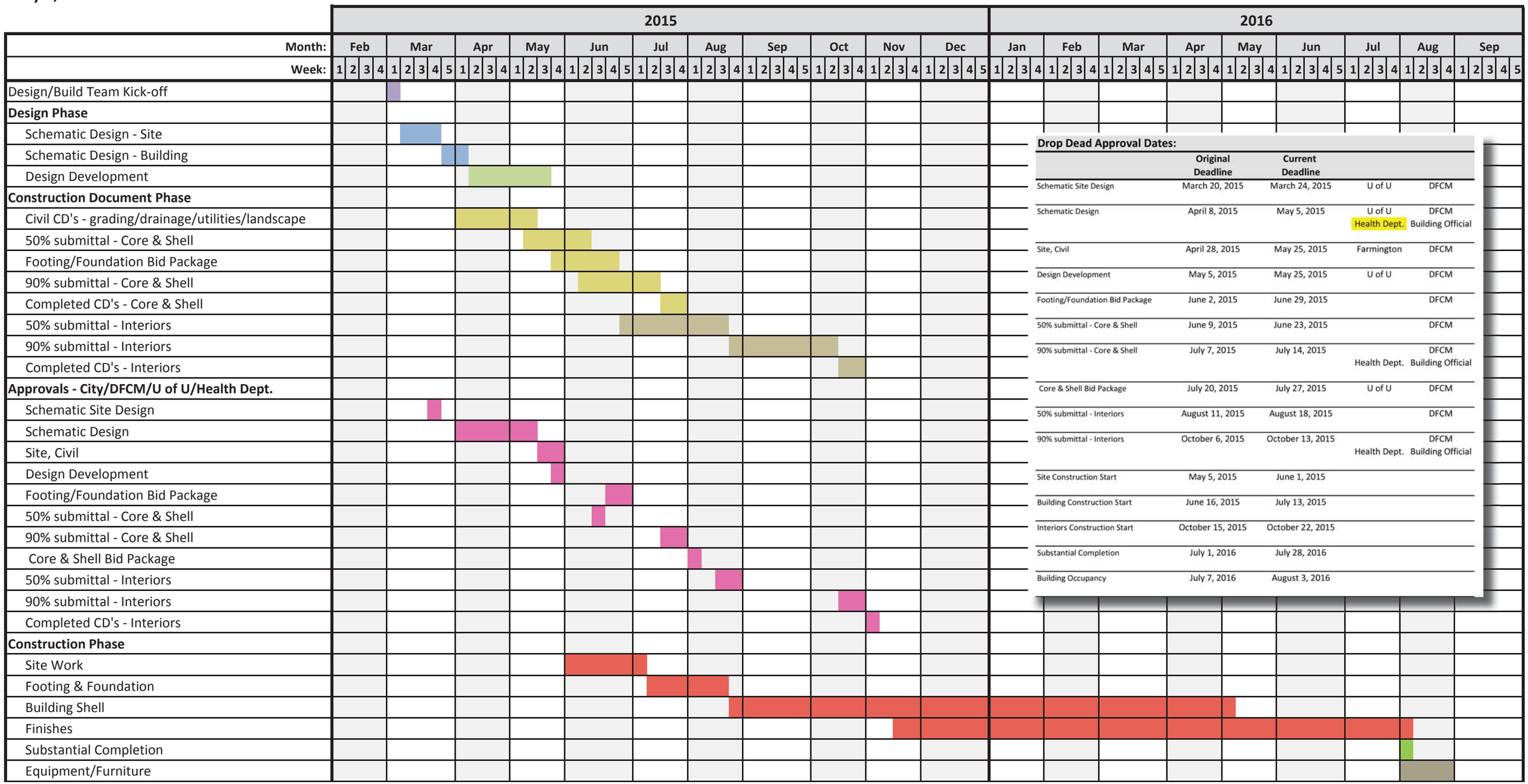
1.2.6 See attached drawings.

1.2.7 See attached mechanical program.

Farmington Health Center

Project Schedule

May 4, 2015



Drop Dead Approval Dates:

	Original Deadline	Current Deadline		
Schematic Site Design	March 20, 2015	March 24, 2015	U of U	DFCM
Schematic Design	April 8, 2015	May 5, 2015	U of U Health Dept.	DFCM Building Official
Site, Civil	April 28, 2015	May 25, 2015	Farmington	DFCM
Design Development	May 5, 2015	May 25, 2015	U of U	DFCM
Footing/Foundation Bid Package	June 2, 2015	June 29, 2015		DFCM
50% submittal - Core & Shell	June 9, 2015	June 23, 2015		DFCM
90% submittal - Core & Shell	July 7, 2015	July 14, 2015	Health Dept.	DFCM Building Official
Core & Shell Bid Package	July 20, 2015	July 27, 2015	U of U	DFCM
50% submittal - Interiors	August 11, 2015	August 18, 2015		DFCM
90% submittal - Interiors	October 6, 2015	October 13, 2015	Health Dept.	DFCM Building Official
Site Construction Start	May 5, 2015	June 1, 2015		
Building Construction Start	June 16, 2015	July 13, 2015		
Interiors Construction Start	October 15, 2015	October 22, 2015		
Substantial Completion	July 1, 2016	July 28, 2016		
Building Occupancy	July 7, 2016	August 3, 2016		

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CONSULT PH 103
IMMUNIZATION PH 104
RETAIL PH 101
OFFICE PH 106
POSITIVE PH 110
NEGATIVE PH 111
ANTE ROOM PH 109
BREAKDOWN PH 112
PROCESSING PH 113
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DUMPSTERS
TRANSFORMER
COOLING TOWER
SEMI-TRUCK
TRUCK
TRASH COMPACTOR
O2 TANK

SPECIALISTS
OB/GYN.
FAMILY MEDICINE
CARDIOLOGY
ESTHETICS
ENT
PUBLIC CORRIDOR
STAFF CORRIDOR
SURGERY CENTER
ENDOSCOPY
OPEN TO BELOW, GLASS ROOF ON VESTIBULE BELOW
SATCHED AREA IS SKYLIGHT ABOVE
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CONSULT SP 227
PROCEDURE SP 228
PROCEDURE SP 229
PROCEDURE SP 230
JAN. CM 206
BREAK SP 225
PROCEDURE SP 224
PATIENT HALL SP 231
EXAM SP 223
EXAM SP 222
EXAM SP 221
EXAM SP 220
EXAM SP 219
EXAM SP 218
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NURSE SP 210
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PROCEDURE OB 227
EXAM SP 208
EXAM SP 207
EXAM SP 206
EXAM SP 205
EXAM SP 204
EXAM SP 203
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PROCEDURE OB 226
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EXAM OB 221
EXAM OB 220
EXAM OB 219
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EXAM OB 208
EXAM OB 207
EXAM OB 206
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EXAM FA 236
EXAM FA 235
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RESTROOM CP 203
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HALLWAY SC 235
JAN. SC 238
ANESTH. SC 239
MANAGER SC 240
CLEAN STORAGE SC 234
LARGE CONF. SC 224
DICTATION SC 223
PREP - 3 SC 222
PREP - 4 SC 221
PREP - 5 SC 220
PREP - 6 SC 219
OR #3 SC 233
OR #1 SC 226
OR #4 SC 230
OR #2 SC 228
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CLEAN CARTS SC 232
CLEAN CARTS SC 227
CLEAN UTIL. SC 226
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EQ. STORAGE SC 229
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PREP - 1 SC 205
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PREP / RECOVERY - 8 EN 233
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SCOPE STORAGE 227
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PREP / RECOVERY - 3 EN 219
PROCEDURE EN 225
PREP / RECOVERY - 4 EN 220
HALLWAY EN 224
RESTROOM EN 222
BREAK EN 221
PROVIDER ET 223
ELEVATOR CM 205

UNIVERSITY OF UTAH
HEALTH CARE

UNIVERSITY OF UTAH
HEALTHCARE
PHARMACY

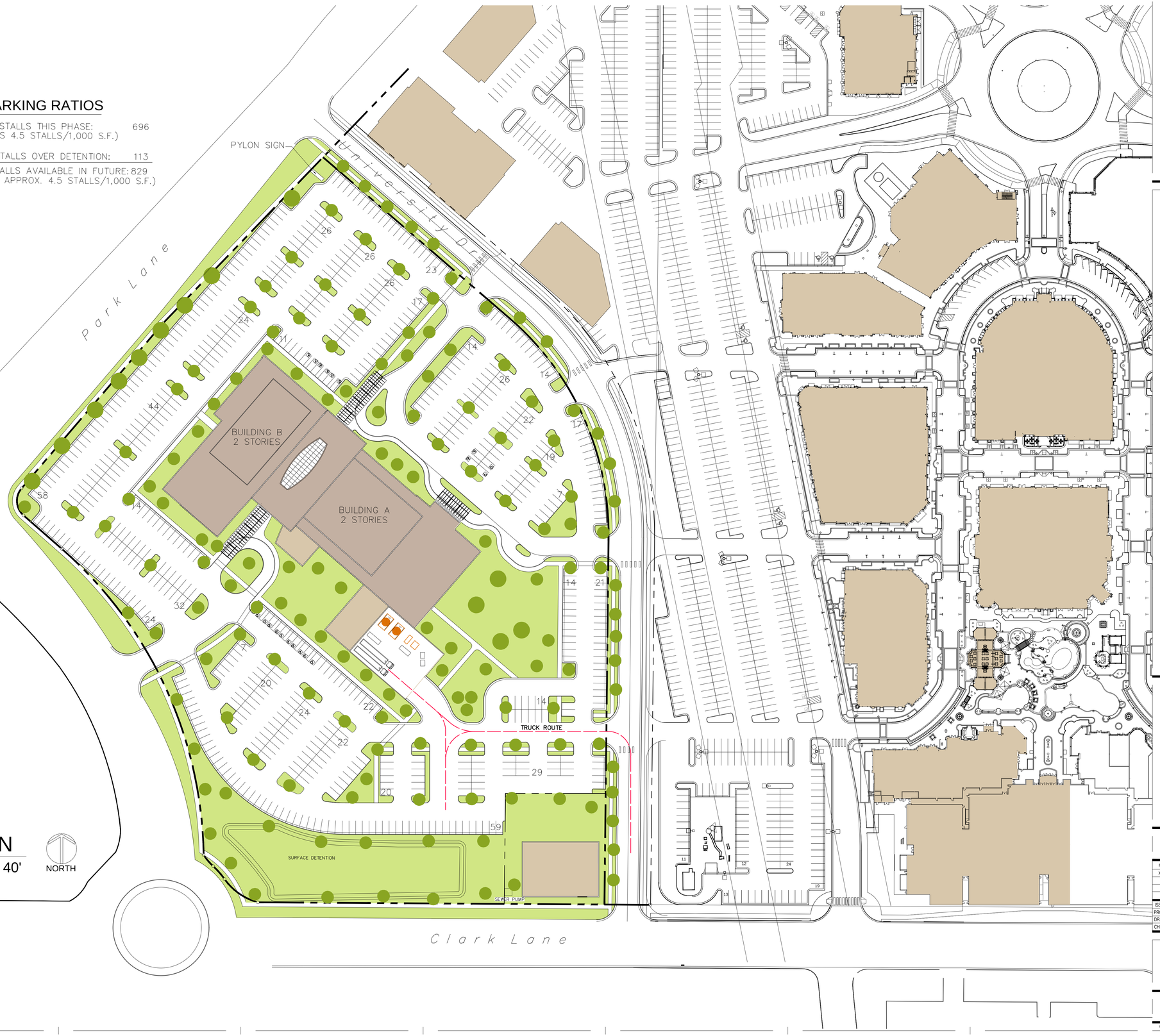
PHARMAC

PARKING RATIOS

PARKING STALLS THIS PHASE: 696
(PROVIDES 4.5 STALLS/1,000 S.F.)

FUTURE STALLS OVER DETENTION: 113

TOTAL STALLS AVAILABLE IN FUTURE: 829
(MAINTAINS APPROX. 4.5 STALLS/1,000 S.F.)



SITE PLAN

SCALE: 1" = 40'

NORTH

dixon
architecture planning interior
833 south 200 east
salt lake city, ut 84111
phone: 801.595.6400
www.dixonsic.com

CONSULTANTS

U OF U
FARMINGTON

X
X

FARMINGTON, UTAH

SCHEMATIC

#	DATE	DESC.
X	5-6-2015	X

ISSUE:	6 MAY 2015
PROJECT NO:	X
DRAWN BY:	-
CHECKED BY:	-

SHEET TITLE

C-1.0

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LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

DUCTWORK/GRILLES

- POSITIVE PRESSURE DUCT - RISE
- POSITIVE PRESSURE DUCT - DROP
- NEGATIVE PRESSURE DUCT - RISE
- NEGATIVE PRESSURE DUCT - DROP
- ROUND DUCT - RISE
- ROUND DUCT - DROP
- UNDER FLOOR DUCT
- TURNING VANES
- FRESH AIR LOUVER
- RELIEF AIR OR EXHAUST AIR LOUVER
- 12X12 200 — CEILING SUPPLY DIFFUSER
- 22X22 200 — CEILING RETURN REGISTER
- 12X12 200 — CEILING EXHAUST REGISTER, (BALANCE TO MATCH SUPPLY IF RETURN CFM IS NOT SHOWN)
- 24X10 200 — SIDEWALL SUPPLY REGISTER
- 24X10 200 — SIDEWALL EXHAUST OR RETURN REGISTER
- 12X12 200 — CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT
- 12X12 200 — CEILING AIR GRILLE WITH FLEXIBLE DUCT

(TOP FIGURES INDICATE NECK SIZE. BOTTOM FIGURE INDICATES CFM.)

- CEILING RETURN AIR GRILE W/ SOUND BOOT
- 3-1" SLOTS @ 48" 400 — LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT CONNECTION. NO. OF SLOTS & SIZE OF SLOT ON TOP, ACTIVE LENGTH AND CFM ON BOTTOM
- FLEXIBLE DUCT CONNECTION
- FLEXIBLE DUCT
- 12/8 FO — FLAT OVAL DUCT WITH FREE AREA DIMENSIONS SHOWN IN INCHES.
- 12/8 — RECTANGULAR DUCT WITH FREE AREA DIMENSIONS SHOWN IN INCHES.
- 12ø — ROUND DUCT WITH FREE AREA DIMENSIONS SHOWN IN INCHES.
- UP — INCLINED RISE
- DN — INCLINED DROP

(WITH RESPECT TO AIR FLOW 15° NOMINAL INCLINE WITH RADIUS TURNS=DEPTH OF DUCT.)

- W R — R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR
- 12/12 8/8 — RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND DUCT TRANSFORMATION MAXIMUM 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE.
- 12/12 12ø — RECTANGULAR TO ROUND DUCT TRANSFORMATION
- R 8 — BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.
- 1.5D 1.25D 45° 2D D — TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
- 12 12/12 — HIGH EFFICIENCY FITTING
- MANUAL VOLUME DAMPER
- FD — FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD.
- FSD — COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL
- SD — SMOKE DAMPER W/ ACCESS PANEL
- BDD — BACK DRAFT DAMPER
- ATC OR — ATC DAMPER
- AD — ACCESS PANEL IN DUCT OR PLENUM
- HEATING OR COOLING COIL IN DUCT
- SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2 TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET.
- 4-WAY BLOW PATTERN
- 3-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 1-WAY BLOW PATTERN
- SD — DUCT SMOKE DETECTOR

PIPING

- OR — SHUT OFF VALVE
- OR — BALL VALVE
- OR — BUTTERFLY VALVE
- MOTOR OPERATED BUTTERFLY VALVE
- OR — GATE VALVE
- GATE VALVE - NON RISING STEM
- OR — ANGLE VALVE
- OR — GLOBE VALVE
- OR — PLUG VALVE
- SHUT OFF PLUG VALVE FOR FOR USE WITH PRESSURE GAUGE
- OR — CHECK VALVE
- OR — LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN
- F&T — F&T=FLOAT & THERMOSTATIC
- RPBP — REDUCED PRESSURE BACKFLOW PREVENTOR W/ DRAIN PAN
- OR — PRESSURE REDUCING VALVE EXTERNAL PRESSURE
- OR — PRESSURE REDUCING VALVE SELF CONTAINED
- OR — ATC - 2 WAY VALVE
- OR — ATC - 3 WAY VALVE
- SOLENOID VALVE
- 0.0 GPM OR — CALIBRATED BALANCING VALVE WITH GPM INDICATED
- VENTURI FLOW METER
- GPM LB/HR. — FLOW METER ORIFICE
- OR — RELIEF VALVE
- AIR VENT-MANUAL
- AIR VENT-AUTO
- FLOW SWITCH
- PS — PRESSURE SWITCH
- OR — TEMPERATURE AND PRESSURE TEST PORT
- THERMOMETER WELL
- THERMOMETER - TEMP RANGE AS INDICATED
- PRESSURE GAUGE WITH SHUT OFF PLUG VALVE
- PRESSURE GAUGE WITH PIGTAIL
- OR — UNION
- OR — FLANGE
- OR — FLEXIBLE EXPANSION JOINT
- REDUCER
- ECCENTRIC REDUCER
- BRANCH - BOTTOM CONNECTION
- BRANCH - TOP CONNECTION
- BRANCH - SIDE CONNECTION
- RISE OR DROP
- RISER - DOWN (ELBOW)
- RISER - UP (ELBOW)
- PIPE CAP
- ARROW INDICATES DIRECTION OF FLOW IN PIPE
- DN — LEADER INDICATES DOWNWORD SLOPE
- VALVE IN RISE
- OR — 90° ELBOW
- 45° ELBOW
- ALIGNMENT GUIDE
- ANCHOR

PLUMBING

- THERMOSTATIC MIXING VALVE
- HOSE BIBB
- FLOOR SINK
- FLOOR DRAIN
- FCO COTG — FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
- ROOF DRAIN
- DOWNSPOUT NOZZLE
- VTR — VENT THRU ROOF
- WATER HAMMER ARRESTOR
- CLEAN-OUT
- FILL PORT
- DRAIN PAN AND P-TRAP
- (NAME) — FIXTURE FROM LEVEL ABOVE
- DEMOLITION

EQUIPMENT

- UNIT HEATER
- INLINE PUMP
- INLINE PUMP
- FAN

FIRE

- HOSE VALVE
- NRS GATE VALVE WITH SUPERVISION
- FLOW SWITCH
- FIRE RISER
- SPRINKLER HEAD
- F — FIRE SPRINKLER WATER

ANNOTATIONS

- P-1 — PLUMBING FIXTURES
- POINT OF CONNECTION
- A 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.
- EF 1 — EQUIPMENT IDENTIFICATION
- 1 — KEYED NOTE IDENTIFICATION
- S — SWITCH
- S — SENSOR
- T — THERMOSTAT
- TN — NIGHT THERMOSTAT

LINETYPES

- AV — ACID VENT
- AW — ACID WASTE
- BBD — BOILER BLOW DOWN
- BF — BOILER FEED WATER
- B — BRINE
- CO2 — CARBON DIOXIDE
- CA — COMPRESSED AIR
- CF — CHEMICAL FEED
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- CS — CONDENSER WATER SUPPLY
- CR — CONDENSER WATER RETURN
- DCW — DOMESTIC COLD WATER (DCW)
- DHW — DOMESTIC HOT WATER (DHW)
- DHWR — DOMESTIC HOT WATER RETURN (DHWR)
- DI — DEIONIZED WATER SUPPLY
- DIR — DEIONIZED WATER RETURN
- E(NAME) — EXISTING PIPING
- (NAME) — EXISTING PIPING TO BE REMOVED
- GHR — GLYCOL HEAT RECOVERY PIPING
- G(NAME) — GLYCOL PIPING SOLUTION
- FOR — FUEL OIL RETURN
- FOS — FUEL OIL SUPPLY
- FOV — FUEL OIL VENT
- FVS — FLUSH VALVE SUPPLY
- G — NATURAL GAS
- HG — HOT GAS
- HFR — HELICOPTER FUEL RETURN
- HFS — HELICOPTER FUEL SUPPLY
- HP(NAME) — HIGH PRESSURE DOMESTIC WATER
- HPC — HIGH PRESSURE CONDENSATE
- HPS — HIGH PRESSURE STEAM
- HWR — HEATING HOT WATER RETURN
- HWS — HEATING HOT WATER SUPPLY
- IA — INSTRUMENT AIR
- IA 120 — INSTRUMENT AIR AT PRESSURE INDICATED
- ICW — INDUSTRIAL COLD WATER
- IHW — INDUSTRIAL HOT WATER
- IHWR — INDUSTRIAL HOT WATER RETURN
- ISCW — INDUSTRIAL SOFT COLD WATER
- LA — LAB AIR
- LV — LAB VACUUM
- LPC — LOW PRESSURE CONDENSATE
- LPG — LIQUIFIED PETROLEUM GAS
- LPS — LOW PRESSURE STEAM
- LW — LAB WATER
- LWR — LAB WATER RETURN
- MA — MEDICAL AIR
- MA 120 — MEDICAL AIR AT PRESSURE INDICATED
- MPC — MEDIUM PRESSURE CONDENSATE
- MPS — MEDIUM PRESSURE STEAM

LINETYPES CONT.

- MUW — MAKE UP WATER
- MV — MEDICAL VACUUM
- N — NITROGEN
- N2O — NITROUS OXIDE
- OX — 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
- TW — TEMPERED WATER
- TWR — TEMPERED WATER RETURN
- V — VACUUM
- VENT (SEWER)

SHEET INDEX

SHEET NUMBER	SHEET TITLE
M001	Mechanical Symbols Legend and General Notes

MECHANICAL GENERAL NOTES

1. PROVIDE CD-1 TYPE DIFFUSER, AS SCHEDULED, FOR ALL CEILING SUPPLY DIFFUSERS UNLESS NOTED OTHERWISE. SEE DETAIL __/____.
2. PROVIDE RG-1 TYPE GRILLE, AS SCHEDULED, FOR ALL CEILING RETURN GRILLES SHOWN AS SUCH. PROVIDE SIZE 22x22, OR 22x10 WITH SOUND BOOT FOR UNDUCTED GRILLES. SEE DETAIL __/____.
3. PROVIDE EG-1 TYPE GRILLE, AS SCHEDULED, FOR ALL CEILING EXHAUST GRILLES, SHOWN AS SUCH.
4. PROVIDE BALANCING DAMPERS AT EACH BRANCH TAKE OFF TO SERVE DIFFUSER OR GRILLE AS WELL AS WHERE INDICATED.
5. COORDINATE EXACT LOCATION OF DUCTS WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, PLUMBING, MECHANICAL PIPING, ETC.
6. BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK SIZE OF THE DIFFUSER, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE.
7. INSTALL HARD ELBOWS AS SHOWN. HARD ELBOWS ARE REQUIRED FOR SOUND ATTENUATION.
8. INSTALL EQUIPMENT WITH CLEARANCE PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN PROPER SPACE FOR COIL PULL, CONTROLS, AND MAINTENANCE ACCESS.
9. INSTALL TURNING VANES IN ALL SQUARE AND RECTANGULAR LOW PRESSURE DUCTWORK.
10. DETAILS REFERENCE ALL SHEETS.
11. ALL FIRE DAMPERS ARE 1-1/2 HR RATED, UNLESS NOTED OTHERWISE.
12. DO NOT ROUTE DUCTS OR PIPES ABOVE ELECTRICAL PANELS. DO NOT ROUTE DUCTS OR PIPES IN ELECTRICAL ROOMS, EXCEPT DUCTS AND PIPES SERVING THE ROOM.
13. IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
14. PROVIDE CEILING ACCESS PANELS AS REQUIRED WHERE MECHANICAL EQUIPMENT, VALVES, VAV BOXES, FIRE DAMPERS, ETC, ARE LOCATED ABOVE INACCESSIBLE CEILINGS.
15. ALL DUCT DIMENSIONS ARE INSIDE FREE AREA DIMENSIONS. ADJUST SHEET METAL DIMENSION FOR LINED DUCT.

MECHANICAL PIPING GENERAL NOTES

1. PIPING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY ALL ROUTING AND COORDINATE WITH ALL OTHER TRADES.
2. NO PIPING TO RUN DIRECTLY OVER ELECTRICAL PANELS, MCC'S, VFD'S. ROUTE AROUND AS REQUIRED.
3. INSTALL MANUAL AIR VENTS AT ALL HYDRONIC SYSTEM HIGH POINTS.
4. INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR MAINTENANCE PER MANUFACTURER'S RECOMMENDATION. PROVIDE A 24"X24" ACCESS DOOR BELOW EQUIPMENT BOX AND CONTROL VALVES WHERE INSTALL OVER HARD CEILING AREAS.
5. COORDINATE EXACT LOCATION OF T-STATS WITH ARCHITECTURAL FURNISHINGS.
6. INSTALL A 24"x24" ACCESS PANEL BELOW ALL VALVES, CIRCUIT SETTERS, AND CONTROL VALVES OVER HARD CEILINGS.
7. MECHANICAL PIPING TO BE INSTALLED ABOVE DUCTWORK AND EQUIPMENT EXCEPT WHERE SHOWN.
8. FIELD VERIFY ALL EQUIPMENT LOCATIONS.
9. DETAILS REFERENCE ALL SHEETS.

PLUMBING GENERAL NOTES

1. SLOPE PIPING AS FOLLOWS, UNLESS OTHERWISE NOTED. WASTE: BRANCHES 1/4" PER FOOT. WASTE MAINS: 1/8" PER FOOT.
2. SLEEVE PIPING THRU WALLS/FOUNDATIONS WHERE REQUIRED.
3. PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT ROUTING AND COORDINATE WITH ALL OTHER TRADES.
4. ALL PIPING IN PLUMBING CHASES TO BE ARRANGED TO ALLOW MAINTENANCE ACCESS.
5. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S, OR MCC'S.
6. COORDINATE FAN ROOM FLOOR DRAIN LOCATIONS AND COOLING COILS.
7. NO FIRE PROTECTION LINE IS TO BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK, MECHANICAL PIPING, AND PLUMBING TAKE PRECEDENCE OVER FIRE PROTECTION PIPING. FAILURE TO COMPLY WILL RESULT IN FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE CONTRACTOR'S EXPENSE.
8. SLEEVE/CONFIGURE CMU WALLS FOR EMBEDDED PIPING AND PIPE PENETRATIONS AS REQUIRED.
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.
11. LOCATE ALL VENTS MINIMUM 25 FT AWAY FROM AIR INTAKES.
12. INSTALL DOMESTIC WATER LINES BELOW DUCTWORK.
13. INSTALL A 24"x24" ACCESS DOOR BELOW ALL ISOLATION VALVES AND CIRCUIT SETTERS WHERE MOUNTED ABOVE HARD CEILINGS.
14. MOUNT ALL CEILING TYPE ISOLATION VALVES, CONTROL VALVES, CIRCUIT SETTERS, ETC. NEAR CEILING FOR ACCESSIBILITY.
15. DETAILS REFERENCE ALL SHEETS.

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DRAWN BY:	Mah
CURRENT/BID DATE:	Issue Date

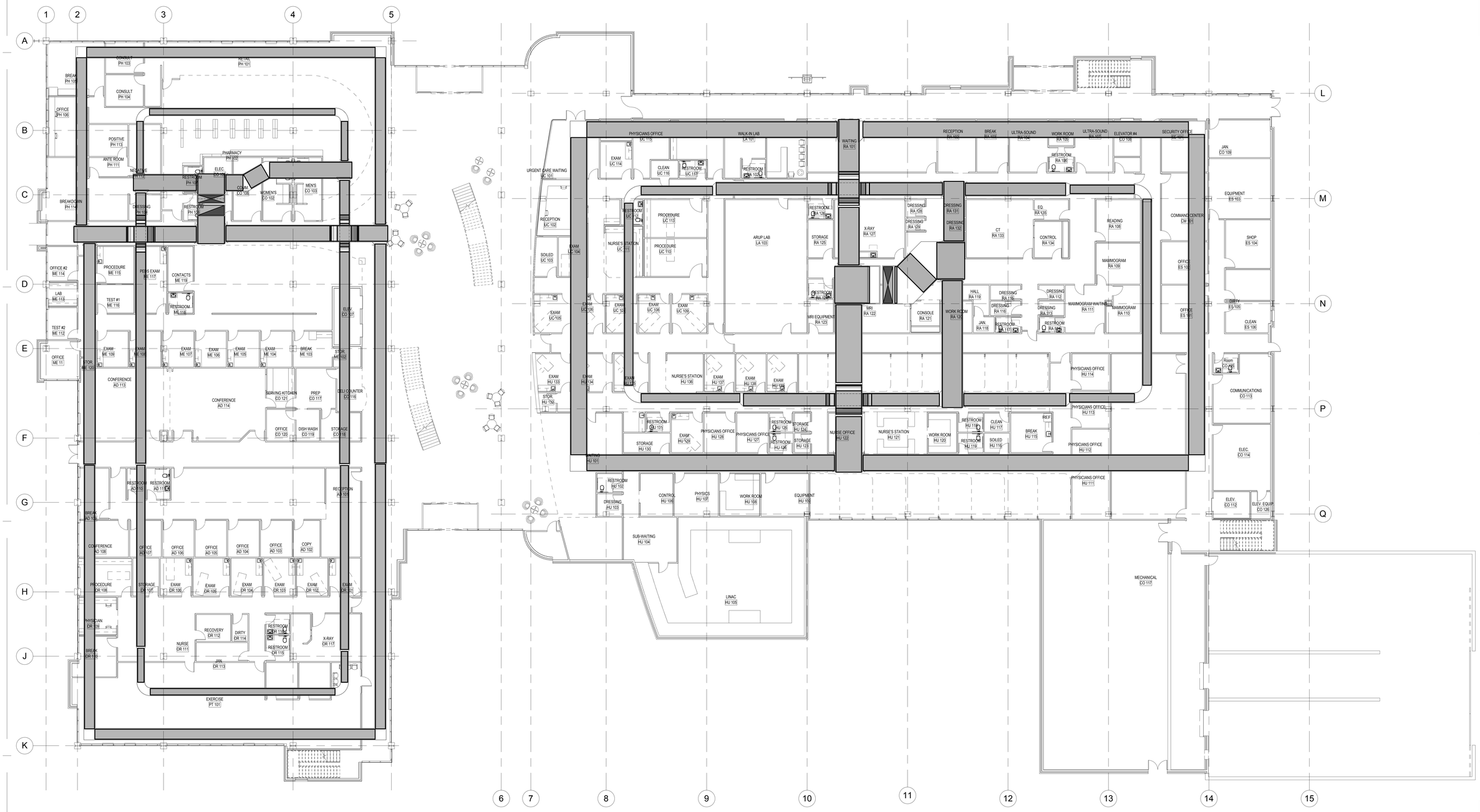
SHEET CONTENTS

Mechanical Symbols Legend and General Notes

M001

KEYED NOTES

1.NOTE 1



MAIN LEVEL - MECHANICAL PLAN - OVERALL

1 SCALE: 3/32" = 1'-0"

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MAIN LEVEL - MECHANICAL PLAN - OVERALL

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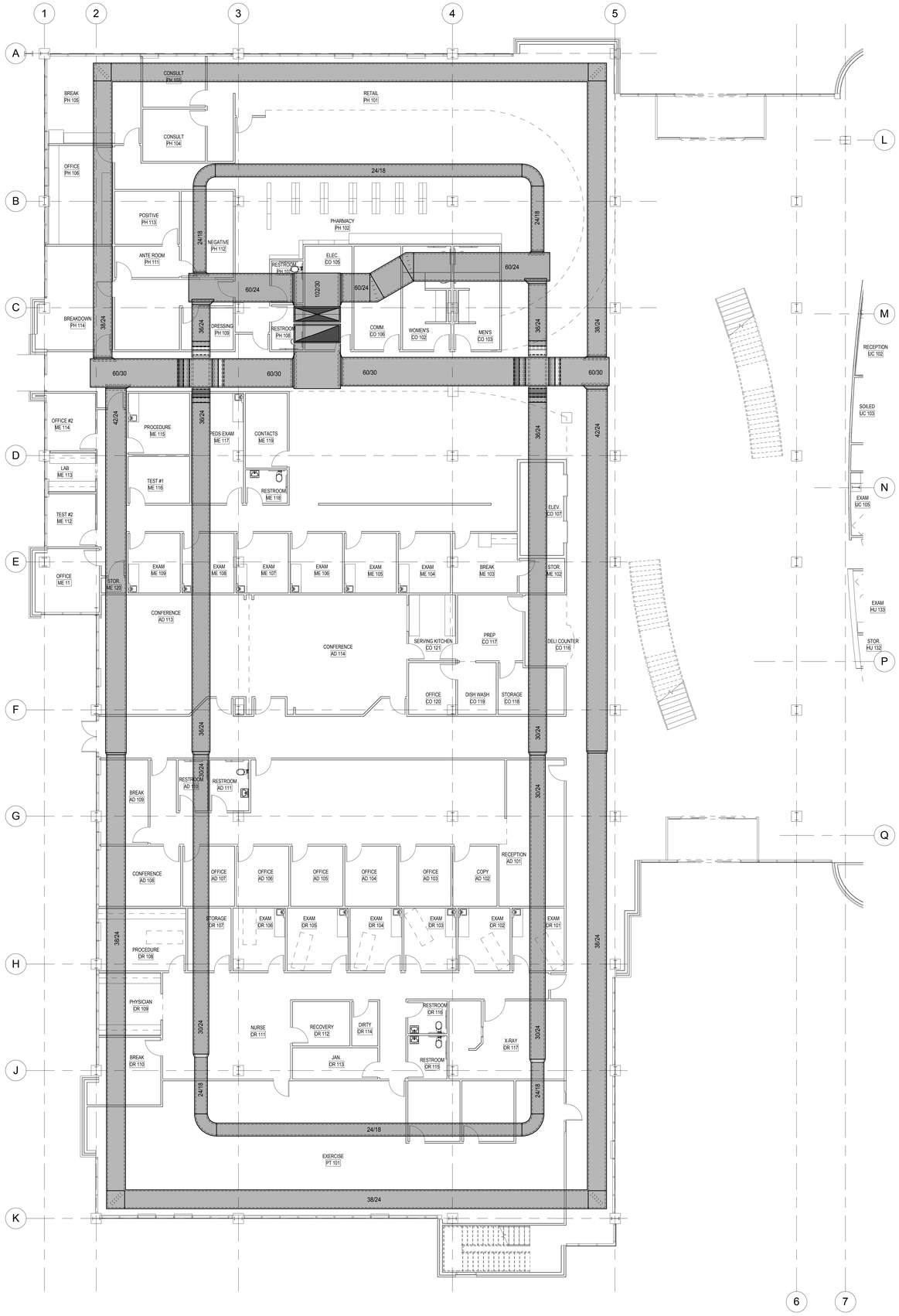

MAIN LEVEL - MECHANICAL PLAN - PART A

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

KEYED NOTES

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MAIN LEVEL - MECHANICAL PLAN - PART A

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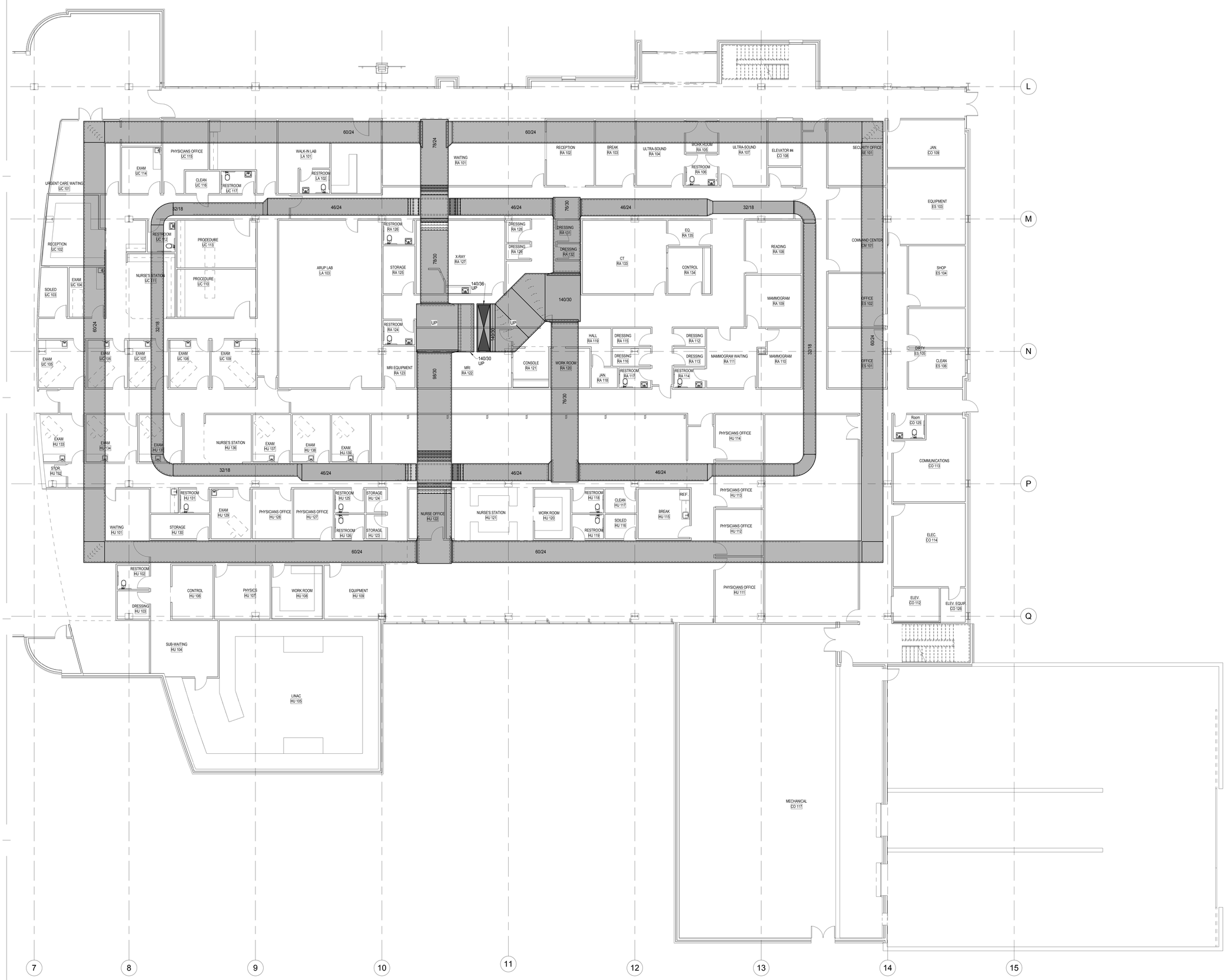

MAIN LEVEL - MECHANICAL PLAN - PART B

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

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1.NOTE 1

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MAIN LEVEL - MECHANICAL PLAN - PART B

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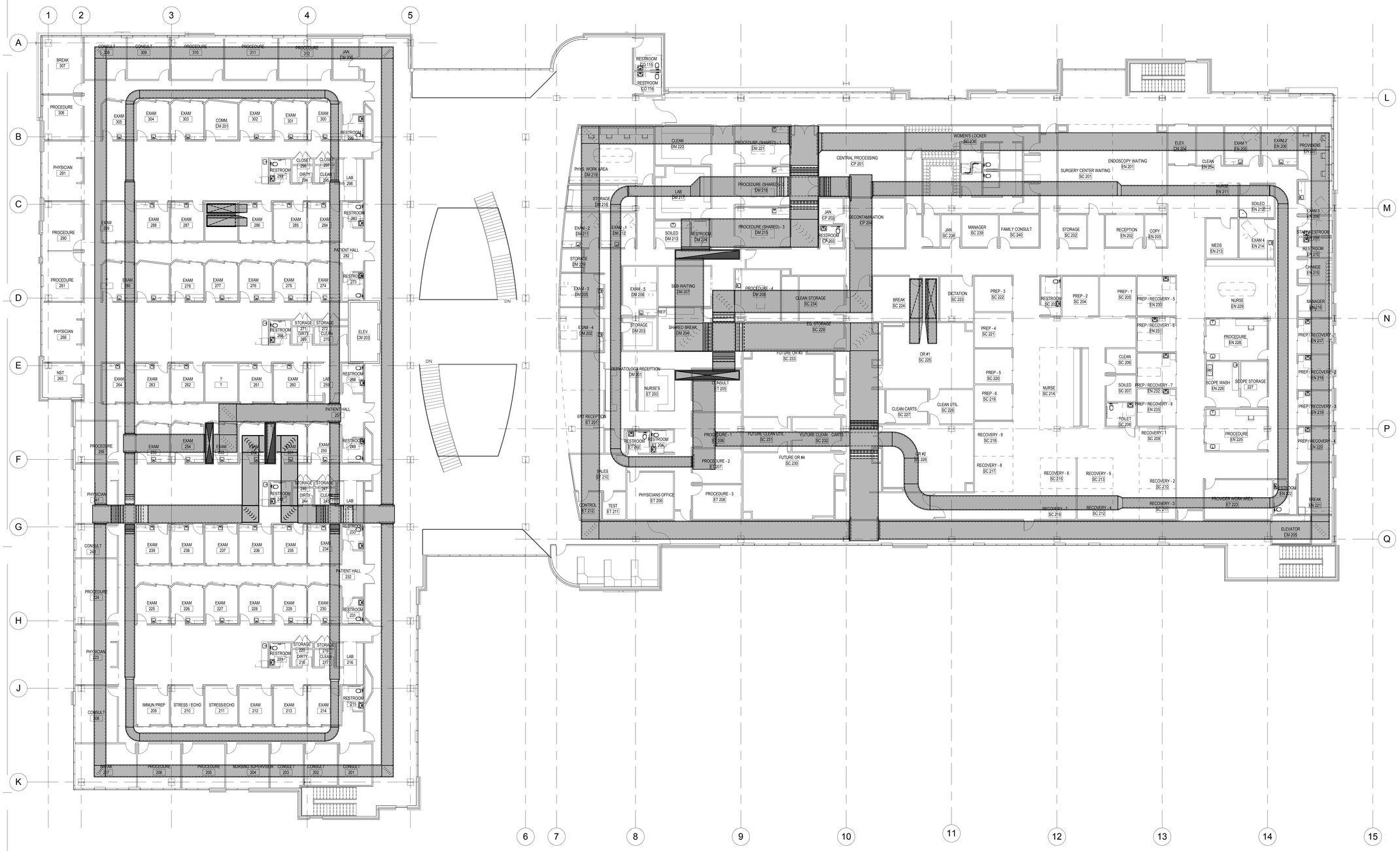
KEYED NOTES

1.NOTE 1



1 SECOND LEVEL - MECHANICAL PLAN - OVERALL

SCALE: 3/32" = 1'-0"

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SECOND LEVEL - MECHANICAL PLAN - OVERALL

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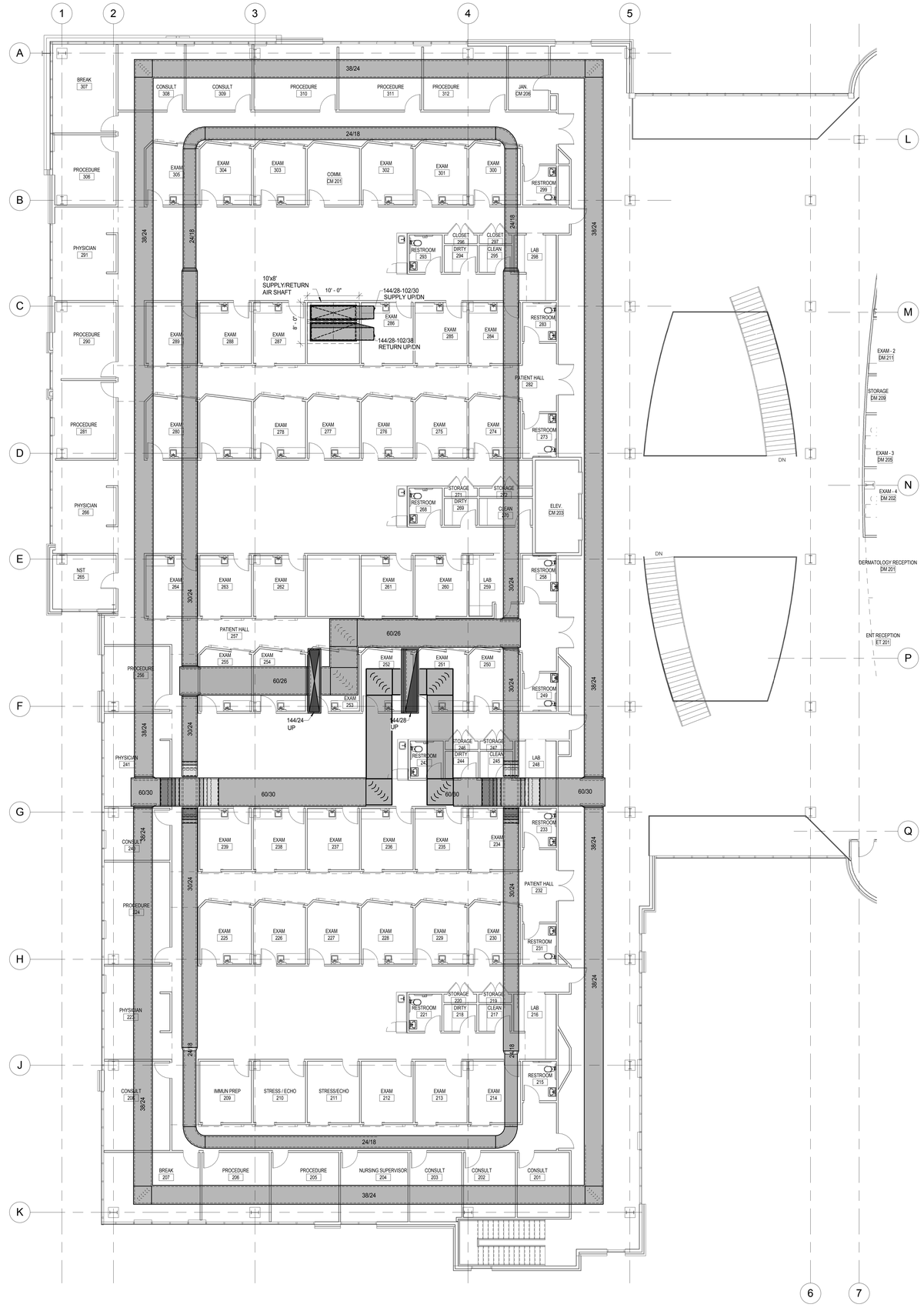

SECOND LEVEL - MECHANICAL PLAN - PART A

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

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SECOND LEVEL - MECHANICAL PLAN - PART A

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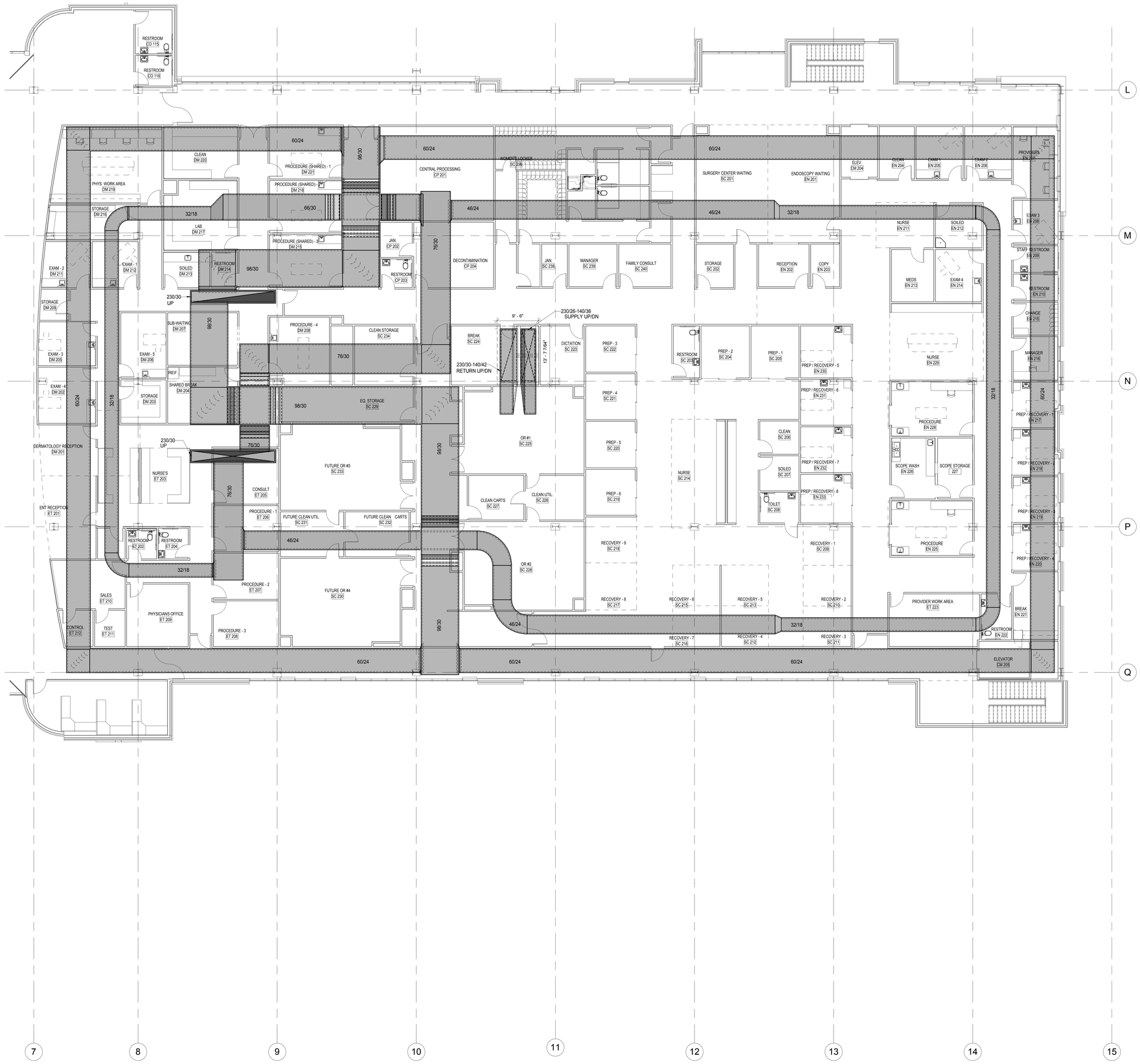

SECOND LEVEL - MECHANICAL PLAN - PART B

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

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SECOND LEVEL - MECHANICAL PLAN - PART B

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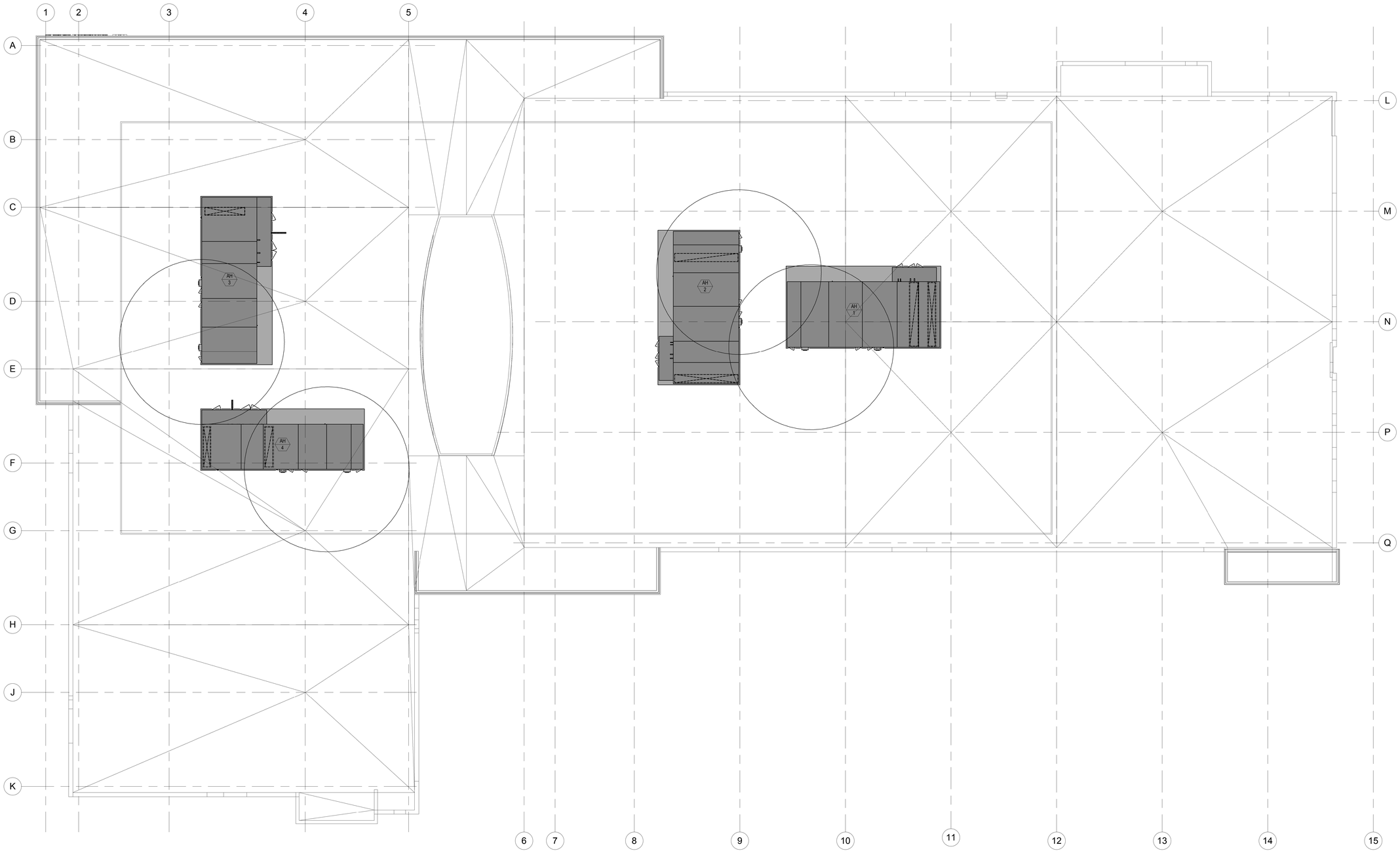

1 ROOF - MECHANICAL PLAN - OVERALL

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ROOF - MECHANICAL PLAN - OVERALL

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AIR-COOLED CHILLER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	REFRIG.	LOAD (TONS)	AIR AMBIENT ENTERING TEMP. DB/WB (°F)	FLUID FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	ELECTRICAL MAX KW	TOTAL MCA	MAXIMUM UNIT EFFICIENCY (KW/TON)	EFFICIENCY RATING	CHILLER AND CONTROL CIRCUIT VOLT/PH/HZ	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
CH-2	MOTIVAIR MPC-FC	EXTERIOR	SCROLL	HFC-134A	22.5	97/62	56.8	56/46	30% P GLY	15	40	73	1	12 (EER)	460/3/60 120/1/60	132/43/87	1-7

1. LOW AMBIENT OPERATION
2. UNIT WITH REMOTE DISPLAY PANEL AND CITY WATER BYPASS PANEL
3. UNIT WITH FULL FLOW BYPASS ASSEMBLY AND DUPLEX PUMPS
4. MEDICAL GRADE AIR COOLED CHILLER
5. UNIT WITH INTEGRAL DUPLEX PUMPS
6. INTEGRAL STARTER AND DISCONNECT
7. PROVIDE UNIT WITH BACNET IP CONNECTION CARD

WATER-COOLED CHILLER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	REFRIG.	LOAD (TONS)	EFF. (%)	FLUID DESCRIPTION	FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	ELECTRICAL MAX KW	TOTAL MCA	MAXIMUM UNIT EFFICIENCY (KW/TON)	EFFICIENCY RATING	CHILLER AND CONTROL CIRCUIT VOLT/PH/HZ	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
CH-01	MCQUAY WMC290DC	CHILLER RM	SCREW	HFC-134A	274.1	79	EVAPORATOR	585.7	53.2/42	WATER	18	160	525	0.575	0.339 (NPLV)	460/3/60 120/1/60	173/51/72	1-4
							CONDENSER	836.6	80/90	WATER	18							
CH-02	MCQUAY WMC290DC	CHILLER RM	SCREW	HFC-134A	274.1	79	EVAPORATOR	585.7	53.2/42	WATER	18	160	525	0.575	0.339 (NPLV)	460/3/60 120/1/60	173/51/72	1-4
							CONDENSER	836.6	80/90	WATER	18							

1. WITH FACTORY SOUND ATTENUATOR, STARTER AND DISCONNECT
2. UNIT ON VIBRATION ISOLATORS
3. UNIT WITH MODULATION CAPACITY DOWN TO 10% OF MAXIMUM LOAD AND RUN AT 55 CHWS AND 59 CHWR
4. UNIT WITH FACTORY VSD/DISCONNECT AND FILTER

HYDRONIC COIL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	USAGE	AIR AIRFLOW RATE (CFM)	LOAD (BTU/H)	SENSIBLE LOAD (BTU/H)	ENTERING TEMP. DB/WB (°F)	LEAVING TEMP. DB/WB (°F)	STATIC PRESSURE (IN. H2O)	HYDRONIC FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	PHYSICAL NO. COILS	EACH COIL FIN WIDTH/ HEIGHT (IN)	MINIMUM FACE AREA (FT²)	MINIMUM NO. ROWS/ FINS PER INCH	NOTES
CC-1	HEATCRAFT	AH-1	COOLING	70000	2528200	2395600	89.1/59.4	52/44.4	0.75	420.2	42/54	WATER	15	6	107/31.5	140.4	10/8	
CC-2	HEATCRAFT	AH-2	COOLING	70000	2515000	2382500	88.9/59.3	52/44.4	0.75	418	42/54	WATER	15	6	107/31.5	140.4	10/8	
CC-3	HEATCRAFT	AH-3	COOLING	35002	1664600	1559200	100.2/63	52/43.9	0.75	276.6	42/54	WATER	15	4	81/31.5	70.9	10/8	
CC-4	HEATCRAFT	AH-4	COOLING	35002	1590500	1486700	98/62.3	52/43.9	0.75	264.3	42/54	WATER	15	4	81/31.5	70.9	10/8	
HC-1	HEATCRAFT	AH-1	HEATING	42000	457700	457700	43.2/36	55/41.9	0.25	31.8	155/125	30% P GLY	5	6	107/31.5	140.4	2/6	
HC-2	HEATCRAFT	AH-2	HEATING	42000	457700	457700	43.2/36	55/41.9	0.25	31.8	155/125	30% P GLY	5	6	107/31.5	140.4	2/6	
HC-3	HEATCRAFT	AH-3	HEATING	20001	590400	590400	23/20.4	55/38.4	0.25	41.1	155/125	30% P GLY	5	4	81/31.5	70.9	2/6	
HC-4	HEATCRAFT	AH-4	HEATING	20001	390900	390900	33.8/29.2	55/40.3	0.25	27.2	155/125	30% P GLY	5	4	81/31.5	70.9	2/6	

CONDENSATE NEUTRALIZER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	QTY	TYPE	CONDENSATE DEVICE INPUT LOAD (BTU/H)	EFFICIENCY (%)	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN)	NPT FITTING (IN)	NOTES
CN-1	AXIOM NC-1		1	STANDARD	5564100	86.5	13.75/3.625/4	0.75	
CN-2	AXIOM NC-1		1	STANDARD	5564100	86.5	13.75/3.625/4	0.75	
CN-3	AXIOM NC-1		1	STANDARD	5564100	86.5	13.75/3.625/4	0.75	
CN-4	AXIOM NC-1		1	STANDARD	2778800	86.6	13.75/3.625/4	0.75	

COOLING TOWER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FAN AIRFLOW (CFM)	AMBIENT TEMP. DB/WB (°F)	FLUID FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	INLET/ OUTLET HEAD LOSS (FT)	ELECTRICAL, FAN MOTOR QUAN.	MOTOR SIZE (HP)	MOTOR SPEED (RPM)	TOWER AND CONTROL CIRCUIT VOLT/PH/HZ	PHYSICAL OPERATING WEIGHT (LB)	LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
CT-1	EVAPCO USS-112-620	TOWER ENCL	OPEN, COUNTERFLOW, AXIAL	80551	97/70	855.4	90/80	WATER	2/2	1	50	1750	460/3/60 120/1/60	23640	240/132/198	1-6

1. IN ADDITION TO THE ABOVE CONDITIONS TOWER TO BE SELECTED AT 88.3 F DB/68.6 F WB AND 89.5 EWT, 71.6 LWT AT THE ABOVE FLOW RATE
2. UNIT WITH LOW SOUND FAN
3. UNIT SHALL BE FACTORY MUTUAL APPROVED (ALL STAINLESS STEEL UNIT)
4. PROVIDE BASIN PLATFORM, LADDER, LADDER EXTENSION
5. PROVIDE WITH VIBRATION SWITCHES
6. 4 KW, 120V/1PH SUMP HEATER, 4 CIRCUITS

EVAPORATIVE COOLER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR AIRFLOW RATE (CFM)	SENSIBLE LOAD (BTU/H)	ENTERING TEMP. DB/WB (°F)	LEAVING TEMP. DB/WB (°F)	STATIC PRESSURE (IN. H2O)	MAKE-UP FLOW RATE (GPM)	MISC EFF (%)	ELECTRICAL, PUMP MOTOR SIZE (HP)	VOLT/PH/HZ	ELECTRICAL, FAN MOTOR SIZE (HP)	VOLT/PH/HZ	PHYSICAL NO. MODULES	EACH MODULE WIDTH/ HEIGHT (IN)	MINIMUM FACE AREA (FT²)	PAD THICKNESS (IN)	NOTES
EC-3	GLASDEK	AH-3	DIRECT	20000	------	55/38.4	55/38.4	0.5	------	90	0.33	120/1/60	------	------	24	22/18	66	12	
EC-4	GLASDEK	AH-4	DIRECT	20000	------	55/40.3	55/40.3	0.5	------	90	0.33	120/1/60	------	------	24	22/18	66	12	

EXPANSION TANK SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID WORKING FLUID	MIN. TANK/ ACCEPTANCE VOLUME (GAL)	MINIMUM FILL PRESSURE (PSIG)	MAXIMUM WORKING PRESSURE (PSIG)	RELIEF VALVE PRESSURE (PSIG)	PHYSICAL TANK SIZE (GAL)	DIA./ HEIGHT (IN)	NPT FITTING (IN)	NOTES
CHWET-01	TACO CA-450	CHILL RM	VERT BLADDER FULL	WATER	83.1/21.6	30	45	50	119	24/77.375	0.5	1
ET-PW-01	TACO CA-90	CHILL RM	VERT BLADDER FULL	30% P GLY	11.6/6.9	10.5	45	50	23	20/29.125	0.5	1
LINET-1	TACO CBX-170	LINAC	HORIZ BLADDER PARTIAL	WATER	38.4/1.3	43	45	50	45	20/43	0.5	1
PET-01	TACO CA-90	CHILL RM	VERT BLADDER FULL	WATER	4.2/2	17	45	50	23	20/29.125	0.5	1
PHET-01	TACO CA-140	BOIL RM	VERT BLADDER FULL	30% P GLY	34.3/20.5	10.5	45	50	37	20/40.125	0.5	1
RHET-01	TACO CA-500	BOIL RM	VERT BLADDER FULL	WATER	134.8/80.7	10.5	45	50	140	24/85.75	0.5	1
SMET-01	TACO CA-300	BASEMENT	VERT BLADDER FULL	40% P GLY	65.4/39.2	10.5	45	50	79	24/57.75	0.5	1

1. ASME CERTIFIED

STEAM PRESSURE-REDUCING VALVE SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	BODY CONSTRUCTION	STEAM FLOW RATE (LB/H)	INLET/ OUTLET PRESSURE (PSIG)	PHYSICAL CONNECT SIZE (IN)	NOTES
SPRV-1	SPIRAX SARCO 25P 0.5"	-	PILOT-OPERATED	CAST IRON	200	75.4/50	0.5	
SPRV-2	SPIRAX SARCO 25P 0.5"	-	PILOT-OPERATED	CAST IRON	200	75.4/50	0.5	
SPRV-3	SPIRAX SARCO 25P 0.5"	-	PILOT-OPERATED	CAST IRON	300	75.4/50	0.5	
SPRV-4	SPIRAX SARCO 25P 0.5"	-	PILOT-OPERATED	CAST IRON	300	75.4/50	0.5	
SPRV-5	SPIRAX SARCO 25P 0.5"	-	PILOT-OPERATED	CAST IRON	335	75.4/50	0.5	

PROJECT SCHEDULE

NAME	LOCATION	OUTSIDE AIR HEATING SEASON DB/RH (°F/%)	COOLING SEASON DB/WB (°F)	ALTITUDE (FT)	NOTES
UOFU FARMINGTON CLINIC	FARMINGTON, UTAH	0/10	97/62	4226	

AIR HANDLER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIR SUPPLY AIRFLOW (CFM)	COMPONENTS FANS	COILS	FILTERS	OTHER	ELECTRICAL SINGLE POINT VOLT/PH/HZ	PHYSICAL CABINET LENGTH/ WIDTH/HEIGHT (IN)	WEIGHT (LB)	NOTES
AH-1	HUNTAIR FAN WALL	PHOUSE	70004	RRLF-1.1, RRLF-1.2, RRLF-1.3, RRLF-1.4, RRLF-1.5, RRLF-1.6, RRLF-1.7, RRLF-1.8, RRLF-1.9, RRLF-1.10, RRLF-1.11, RRLF-1.12, RRLF-1.13, RRLF-1.14, RRLF-1.15, SF-1.1, SF-1.2, SF-1.3, SF-1.4, SF-1.5, SF-1.6, SF-1.7, SF-1.8, SF-1.9, SF-1.10, SF-1.11, SF-1.1...	CC-1, HC-1	F-1.1, F-1.2, F-1.3		N/A	555/348/84	4020	1-2
AH-2	HUNTAIR FAN WALL	PHOUSE	70004	RRLF-2.1, RRLF-2.2, RRLF-2.3, RRLF-2.4, RRLF-2.5, RRLF-2.6, RRLF-2.7, RRLF-2.8, RRLF-2.9, RRLF-2.10, RRLF-2.11, RRLF-2.12, RRLF-2.13, RRLF-2.14, RRLF-2.15, SF-2.1, SF-2.2, SF-2.3, SF-2.4, SF-2.5, SF-2.6, SF-2.7, SF-2.8, SF-2.9, SF-2.10, SF-2.11, SF-2.1...	CC-2, HC-2	F-2.1, F-2.2, F-2.3		N/A	555/348/84	4020	1-2
AH-3	HUNTAIR FAN WALL	PHOUSE	35002	RRLF-3.1, RRLF-3.2, RRLF-3.3, RRLF-3.4, RRLF-3.5, RRLF-3.6, RRLF-3.7, RRLF-3.8, RRLF-3.9, RRLF-3.10, RRLF-3.11, RRLF-3.12, RRLF-3.13, RRLF-3.14, RRLF-3.15, SF-3.1, SF-3.2, SF-3.3, SF-3.4, SF-3.5, SF-3.6, SF-3.7, SF-3.8, SF-3.9, SF-3.10, SF-3.11, SF-3.1...	CC-3, EC-3, HC-3	F-3.1, F-3.2, F-3.3		N/A	555/185/84	4620	1-2
AH-4	HUNTAIR FAN WALL	PHOUSE	35002	RRLF-4.1, RRLF-4.2, RRLF-4.3, RRLF-4.4, RRLF-4.5, RRLF-4.6, RRLF-4.7, RRLF-4.8, RRLF-4.9, RRLF-4.10, RRLF-4.11, RRLF-4.12, RRLF-4.13, RRLF-4.14, RRLF-4.15, SF-4.1, SF-4.2, SF-4.3, SF-4.4, SF-4.5, SF-4.6, SF-4.7, SF-4.8, SF-4.9, SF-4.10, SF-4.11, SF-4.1...	CC-4, EC-4, HC-4	F-4.1, F-4.2, F-4.3		N/A	555/185/84	5055	1-2

1. UNIT WITH 36" BOTTOM RETURN PLENUM FULL DIMENSIONS OF AIR HANDLER
2. PRE-BID ITEM

AIR SEPARATOR SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID FLOW RATE (GPM)	WORKING FLUID	HEAD LOSS (FT)	PHYSICAL DIA./ HEIGHT (IN)	NOTES
AS-PW-1	TACO 49025ADT-5	CHILL RM	TANK - HIGH EFF (AIR/DIRT)	56.8	30% P GLY	3	11.688/27.125	1
CHWAS-1	TACO AC8F	CHILL RM	TANK	1171.5	WATER	3	20/45.5	1
PAS-1	TACO ACT3F	CHILL RM	TANK	79.5	WATER	3	12/22.5	1
PHAS-01	TACO 4904AD-5	PRE- HEAT	TANK - HIGH EFF (AIR/DIRT)	131.9	30% P GLY	3	20.5/34.75	1
RHAS-01	TACO 4910AD-5	RE- HEAT	TANK - HIGH EFF (AIR/DIRT)	974.6	WATER	3	35.125/66.375	1
SMAS-01	TACO 4904AD-5	PRE- HEAT	TANK - HIGH EFF (AIR/DIRT)	122	40% P GLY	3	20.5/34.75	1

1. ASME CERTIFIED

BLOWDOWN SEPARATOR SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	STEAM FLOW RATE (LB/H)	PHYSICAL LENGTH/ DIAMETER (IN)	NOTES
BDS-01	HURST BD14X34	PHOUSE	66.8	58.25/21.75	
BDS-02	HURST BD14X34	PHOUSE	66.8	58.25/21.75	

BOILER FEED SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	MIN BOILER OUTPUT LOAD (BTU/H)	FLOW RATE (LB/H)	ELECTRICAL MOTOR SIZE (HP)	MOTOR SPEED (RPM)	VOLT/PH/HZ	CONTROL CIRCUIT VOLT/PH/HZ	PHYSICAL TANK SIZE (GAL)	CONSTRUCTION	LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
BF-1	HURST FM-100-150	PHOUSE	RECTANGULAR WITH LEGS; 2 PUMPS (DUPLEX)	3021600	3382.5	3	3450	460/3/60	120/1/60	100	CARBON STEEL	48/26/74	

HYDRONIC BOILER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FUEL TYPE	INPUT LOAD (BTU/H)	OUTPUT LOAD (BTU/H)	FLUID FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	ELECTRICAL MOTOR QUAN.	MOTOR SIZE (HP)	MOTOR VOLT/PH/HZ	CONTROL CIRCUIT VOLT/PH/HZ	PHYSICAL STACK DIAMETER (IN)	LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
B-1	AERCO BMK-6000	PHOUSE	CONDENSING, FORCED	NAT GAS	5564100	4812900	487.3	159.7/180	WATER	15					1@14	89.3/34/79.4	1-6
B-2	AERCO BMK-6000	PHOUSE	CONDENSING, FORCED	NAT GAS	5564100	4812900	487.3	159.7/180	WATER	15					1@14	89.3/34/79.4	1-6
B-3	AERCO BMK-6000	PHOUSE	CONDENSING, FORCED	NAT GAS	5564100	4812900	487.3	159.7/180	WATER	15					1@14	89.3/34/79.4	1-6
B-4	AERCO BMK-3000	PHOUSE	CONDENSING, FORCED	NAT GAS	2778800	2406500	243.6	159.7/180	WATER	15					1@8	56/28/78	1-3, 5-7

1. UNIT WITH CONDENSATE TRAP PIPED TO DRAIN
2. UNIT WITH MULTIPLE BOILER MANAGEMENT CONTROL PACKAGE AND COMMUNICATIONS GATEWAY
3. ASME CERTIFIED
4. SINGLE POINT CONNECTION: 20 AMP, 460/3/60
5. UNIT WILL BE SEALED COMBUSTION CAPABLE.
6. UNIT WILL HAVE FULLY MODULATING BURNER, MINIMUM 7:1 TURNDOWN.
7. SINGLE POINT CONNECTION: 15 AMP, 460/3/60

STEAM BOILER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FUEL TYPE	INPUT LOAD (BTU/H)	OUTPUT LOAD (BTU/H)	STEAM FLOW RATE (LB/H)	OPERATING PRESSURE (PSIG)	ELECTRICAL MOTOR QUAN.	MOTOR SIZE (HP)	MOTOR VOLT/PH/HZ	CONTROL CIRCUIT VOLT/PH/HZ	PHYSICAL STACK DIAMETER (IN)	LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
SB-01	BRYAN AB120-S	PHOUSE	FLEXIBLE TUBE, FORCED	NAT GAS	926900	674800	755.4	80	1	0.333	120/1/60	120/1/60	1@10	85.375/38.5/77.25	1-2
SB-02	BRYAN AB120-S	PHOUSE	FLEXIBLE TUBE, FORCED	NAT GAS	926900	674800	755.4	80	1	0.333	120/1/60	120/1/60	1@10	85.375/38.5/77.25	1-2
SG-01A	NEPTRONIC SKM 370M	AH-01	ELECTRIC	ELECTRIC	219400	219400	225	0				24/1/60		33/25/48	3-7
SG-01B	NEPTRONIC SKM 370M	AH-01	ELECTRIC	ELECTRIC	219400	219400	225	0				24/1/60		33/25/48	3-7
SG-02A	NEPTRONIC SKM 370M	AH-02	ELECTRIC	ELECTRIC	219400	219400	225	0				24/1/60		33/25/48	3-7
SG-02B	NEPTRONIC SKM 370M	AH-02	ELECTRIC	ELECTRIC	219400	219400	225	0				24/1/60		33/25/48	3-7

1. PROVIDE WITH MULTI-BOILER PACKAGE CONTROLS
2. ASME CERTIFIED
3. PROVIDE WITH DOUBLE CHECK VALVE INLET, AND 5 MICRON WATER FILTER, AND DRAIN WATER SUMP PUMP
4. 20 TO 100% MODULATION
5. PROVIDE WITH DRAIN COOLER
6. UNIT WITH CONTROLLER WITH INTEGRAL SENSOR, DUCT TEMPERATURE SENSOR FOR OUTDOOR SETBACK, AIR PROVING SWITCH, HIGH LIMIT STAT, FILL AND DRAIN CONTROLS, INTEGRAL DRAIN WATER COOLER, INLINE WATE FILTER, CONTROL INTERFACE CARD, SCALE MANAGEMENT SYSTEM AN...
7. 90 KW ELECTRICAL LOAD

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MECHANICAL SCHEDULES

M601

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FAN SCHEDULE

					AIR		FAN			ELECTRICAL				PHYSICAL	
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR TYPE	MAXIMUM AIRFLOW RATE (CFM)	STATIC PRESSURE (IN. H2O)	FAN SPEED (RPM)	FAN WHEEL DIAMETER (IN)	STATIC EFFICIENCY (%)	MOTOR SIZE (HP)	MOTOR BHP (HP)	MOTOR SPEED (RPM)	VOLT/PH/HZ	LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
ADEF-01	TWIN CITY BCV 135	ROOF	BACKWARD INCLINED VENT	EXHAUST AIR	1575	2.33	2062	13.5	65.9	1	0.873	1800	460/3/60	22.38/28.31/31	1
ADEF-02	TWIN CITY BCRD 160D	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	1625	0.99	1158	16.5	63.8	0.5	0.397	1800	120/1/60	33.81/33.81/35.25	1
ADEF-03	TWIN CITY BCRD 240DHP	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	4675	1.18	955	27.95	60.6	2	1.428	1800	460/3/60	43/43/38.38	1
ADEF-04	TWIN CITY BCRD 160D	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	2550	1.2	1398	16.5	63.9	1	0.756	1800	460/3/60	33.81/33.81/35.25	1
ADEF-05	TWIN CITY BCRD 160D	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	2150	0.99	1236	16.5	64.8	0.75	0.517	1800	460/3/60	33.81/33.81/35.25	1
ADEF-06	TWIN CITY BCRD 160D	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	1750	0.92	1136	16.5	64.9	0.5	0.389	1800	120/1/60	33.81/33.81/35.25	1
ADEF-07	TWIN CITY BCRD 085D	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	450	0.86	1790	10.5	58.9	0.25	0.103	1800	120/1/60	27.88/27.88/28	1
ADEF-08	TWIN CITY BCRD 160D	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	1950	1.2	1293	16.5	64.7	0.75	0.569	1800	460/3/60	33.81/33.81/35.25	1
ADEF-09	TWIN CITY BCRD 160DHP	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	925	0.85	1319	13.5	55.5	0.33	0.221	1800	120/1/60	33.81/33.81/35.25	1
ADEF-10	TWIN CITY BCV 122	ROOF	BACKWARD INCLINED VENT	EXHAUST AIR	425	0.67	1149	12.25	56.9	0.167	0.079	1800	120/1/60	20.31/27.19/28.44	1
ADEF-11	TWIN CITY BCRD 085D	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	400	0.66	1578	10.5	59	0.25	0.071	1800	120/1/60	27.88/27.88/28	1
ADEF-12	TWIN CITY BCRD 085D	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	400	0.66	1578	10.5	59	0.25	0.071	1800	120/1/60	27.88/27.88/28	1
ADEF-13	TWIN CITY BCRU 110B	ROOF	ROOF UPBLAST, DOME	EXHAUST AIR	1170	0.93	1786	12.25	48.2	0.5	0.353	1800	120/1/60	31/31/30	1
ADEF-14	TWIN CITY BCRU 180BMP	ROOF	ROOF UPBLAST, DOME	EXHAUST AIR	3000	0.95	1258	18.25	49.1	1.5	0.911	1800	460/3/60	37/37/37	1
ADEF-15	TWIN CITY BCV 150	ROOF	BACKWARD INCLINED VENT	EXHAUST AIR	1200	0.9	1153	15	65.9	0.33	0.258	1800	120/1/60	24.82/32.19/34.56	2
ADEF-16	TWIN CITY BCV 122	ROOF	BACKWARD INCLINED VENT	EXHAUST AIR	550	0.63	1132	12.25	64.2	0.167	0.084	1800	120/1/60	20.31/27.19/28.44	3
BDEF-01	TWIN CITY BCRD 085D	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	450	0.74	1693	10.5	59.3	0.25	0.088	1800	120/1/60	27.88/27.88/28	1
BDEF-02	TWIN CITY BCRD 085D	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	400	0.62	1540	10.5	59.2	0.25	0.066	1800	120/1/60	27.88/27.88/28	1
BDEF-03	TWIN CITY BCRD 240DHP	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	4700	1.42	1011	27.95	61.1	2	1.721	1800	460/3/60	43/43/38.38	4
BDEF-05	TWIN CITY BCRD 160DHP	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	1050	1.1	1506	13.5	55.5	0.5	0.329	1800	120/1/60	33.81/33.81/35.25	1
BDEF-06	TWIN CITY BCRD 240DHP	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	4000	2.05	1087	27.95	59.1	3	2.177	1800	460/3/60	43/43/38.38	1
BDEF-10	TWIN CITY BCRUR 180BHP	ROOF	ROOF UPBLAST, DOME, KIT	EXHAUST AIR	2000	2.28	1779	16.5	53.9	2	1.332	1800	460/3/60	37/37/37	1
BDEF-11	TWIN CITY BCRUR 210BHP	ROOF	ROOF UPBLAST, DOME, KIT	EXHAUST AIR	3500	2.65	1385	24.8	60.2	3	2.426	1800	460/3/60	46/46/38	1
BDEF-12	TWIN CITY BCRD 160D	ROOF	ROOF DOWNBLAST, DOME	EXHAUST AIR	2400	1.37	1430	16.5	65.1	1	0.794	1800	460/3/60	33.81/33.81/35.25	1
BDEF-13	TWIN CITY BCRUR 300BHP	ROOF	ROOF UPBLAST, DOME, KIT	EXHAUST AIR	5700	2.87	1091	31.5	62.1	5	4.134	1800	460/3/60	55/55/40	1
BSF-1	TWIN CITY QSL 300	BOIL RM	MIXED FLOW, CENTRIFUGAL	SUPPLY AIR	9000	1.08	763	36.5	69.5	3	2.193	1800	460/3/60	54.52/44.88/67.57	
CHDEF-1	TWIN CITY BSI 165A	CHILL RM	SQUARE INLINE, CENTRIF	EXHAUST AIR	3536	0.9	1396	18.25	41.8	1.5	1.198	1800	460/3/60	27/26.5/41.06	
RRLF-1.1	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.2	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.3	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.4	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.5	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.6	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.7	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.8	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.9	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.10	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.11	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.12	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.13	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.14	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-1.15	TWIN CITY EPQN 150	AH-1	PLENUM, CENTRIFUGAL	RET/RLF AIR	4115	2.23	3480	14	44.2	5	3.257	3500	460/3/60	28.13/22/22	5-6
RRLF-2.1	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.2	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.3	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.4	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.5	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.6	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.7	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.8	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.9	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.10	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.11	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.12	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.13	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.14	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-2.15	TWIN CITY EPQN 150	AH-2	PLENUM, CENTRIFUGAL	RET/RLF AIR	3684	2	3471	13.719	43	5	2.695	3500	460/3/60	28.13/22/22	5-6
RRLF-3.1	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.2	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.3	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.4	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.5	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.6	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.7	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.8	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.9	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.10	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.11	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.12	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.13	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.14	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-3.15	TWIN CITY EPQN 165	AH-3	PLENUM, CENTRIFUGAL	RET/RLF AIR	1427	2	1800	15.75	59.8	1	0.75	1800	460/3/60	29.25/24/24	5
RRLF-4.1	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.2	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.3	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.4	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.5	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.6	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.7	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.8	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.9	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.10	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.11	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.12	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.13	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.14	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
RRLF-4.15	TWIN CITY EPQN 182	AH-4	PLENUM, CENTRIFUGAL	RET/RLF AIR	1627	2	1714	17.688	66.9	1	0.765	1750	460/3/60	35.5/26/26	5
SCF-01	TWIN CITY BCRU 300B	SMK CNTRL	ROOF UPBLAST, DOME	EXHAUST AIR	10000	1.08	855	31.5	61.4	5	2.751	1800	460/3/60	55/55/40	7
SCF-02	TWIN CITY BCRU 300B	SMK CNTRL	ROOF UPBLAST, DOME	EXHAUST AIR	10000	1.08	855	31.5	61.4	5	2.751	1800	460/3/60	55/55/40	7
SF-1.1	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.2	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.3	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.4	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.5	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.6	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.7	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.8	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.9	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.10	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.11	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.12	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.13	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.14	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-1.15	TWIN CITY EPQN 182	AH-1	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.23	3500	460/3/60	41.5/26/26	5, 8
SF-2.1	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.2	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.3	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.4	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.5	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.6	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.7	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.8	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.9	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.10	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.11	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.12	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.13	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.14	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-2.15	TWIN CITY EPQN 182	AH-2	PLENUM, CENTRIFUGAL	SUPPLY AIR	4667	7.38	3481	17.688	65.7	10	8.231	3500	460/3/60	41.5/26/26	5, 8
SF-3.1	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.2	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.3	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.4	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.5	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.6	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.7	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.8	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.9	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.10	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.11	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.12	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.13	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.14	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-3.15	TWIN CITY EPFN 182	AH-3	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3194	18.25	40.2	15	7.728	3600	460/3/60		5, 8
SF-4.1	TWIN CITY EPFN 182	AH-4	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3188	18.25	40.3	15	7.718	3600	460/3/60		5, 8
SF-4.2	TWIN CITY EPFN 182	AH-4	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3188	18.25	40.3	15	7.718	3600	460/3/60		5, 8
SF-4.3	TWIN CITY EPFN 182	AH-4	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3188	18.25	40.3	15	7.718	3600	460/3/60		5, 8
SF-4.4	TWIN CITY EPFN 182	AH-4	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3188	18.25	40.3	15	7.718	3600	460/3/60		5, 8
SF-4.5	TWIN CITY EPFN 182	AH-4	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3188	18.25	40.3	15	7.718	3600	460/3/60		5, 8
SF-4.6	TWIN CITY EPFN 182	AH-4	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3188	18.25	40.3	15	7.718	3600	460/3/60		5, 8
SF-4.7	TWIN CITY EPFN 182	AH-4	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3188	18.25	40.3	15	7.718	3600	460/3/60		5, 8
SF-4.8	TWIN CITY EPFN 182	AH-4	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3188	18.25	40.3	15	7.718	3600	460/3/60		5, 8
SF-4.9	TWIN CITY EPFN 182	AH-4	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3188	18.25	40.3	15	7.718	3600	460/3/60		5, 8
SF-4.10	TWIN CITY EPFN 182	AH-4	PLENUM, CENTRIFUGAL	SUPPLY AIR	2333	8.48	3188	18.25	40.3	15	7.718	3600	460/3/60		5, 8

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FAN COIL SCHEDULE

				AIR	FAN	HEATING COIL	COOLING COIL	COILS	ELECTRICAL			PHYSICAL	
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	MAXIMUM AIRFLOW RATE (CFM)	EXTERNAL STATIC PRESSURE (IN. H2O)	MEDIUM	MEDIUM	2-PIPE HYDRONIC	MOTOR QUAN	MOTOR SIZE (HP)	VOLT/PH/HZ	LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
FCA-01	WILLIAMS LH-010-W2-D60-1	BASE ELEC	HORIZONTAL DELUXE	1000	0	-----	HYDRONIC	-----	1	0.25	120/1/60	28/61/13	
FCA-02	WILLIAMS LV-006-W2-D01-1	A STAIR	VERTICAL WALL MOUNT DELUXE	500	0	HYDRONIC	-----	-----	1	0.067	120/1/60	12/53/26	
FCA-03	WILLIAMS HH-018-W2-D40-1	BASE ELEV	HORIZONTAL DELUXE	1600	0	-----	HYDRONIC	-----	2	0.25	120/1/60	32/61/19	
FCA-04	WILLIAMS HH-018-W2-D40-1	L1 ELEC	HORIZONTAL DELUXE	1600	0	-----	HYDRONIC	-----	2	0.25	120/1/60	32/61/19	
FCA-05	WILLIAMS HH-018-W2-D40-1	L2 ELEC	HORIZONTAL DELUXE	1600	0	-----	HYDRONIC	-----	2	0.25	120/1/60	32/61/19	
FCA-06	WILLIAMS LV-006-W2-D01-1	A STAIR	VERTICAL WALL MOUNT DELUXE	500	0	HYDRONIC	-----	-----	1	0.067	120/1/60	12/53/26	
FCA-07	WILLIAMS HH-018-W2-D40-1	BASE ELEC	HORIZONTAL DELUXE	1600	0	-----	HYDRONIC	-----	2	0.25	120/1/60	32/61/19	
FCB-01	WILLIAMS HH-022-W2-D40-1	BOIL	HORIZONTAL DELUXE	2000	0	-----	HYDRONIC	-----	2	0.33	120/1/60	32/67/19	
FCB-02	WILLIAMS HH-022-W2-D40-1	BOIL	HORIZONTAL DELUXE	2000	0	-----	HYDRONIC	-----	2	0.33	120/1/60	32/67/19	
FCB-03	WILLIAMS HH-022-W2-D40-1	BOIL	HORIZONTAL DELUXE	2000	0	-----	HYDRONIC	-----	2	0.33	120/1/60	32/67/19	
FCB-04	WILLIAMS LV-008-W2-D01-1	S STAIRS 2	VERTICAL WALL MOUNT DELUXE	800	0	HYDRONIC	-----	-----	1	0.25	120/1/60	12/58/30	
FCB-05	WILLIAMS LH-010-W2-D60-1	MAIN ELEC	HORIZONTAL DELUXE	1000	0	-----	HYDRONIC	-----	1	0.25	120/1/60	28/61/13	
FCB-06	WILLIAMS HH-015-W2-D20-1	BAS ELEV	HORIZONTAL DELUXE	1500	0	-----	HYDRONIC	-----	2	0.167	120/1/60	32/55/19	
FCB-07	WILLIAMS HH-015-W2-D20-1	BAS ELEV	HORIZONTAL DELUXE	1500	0	-----	HYDRONIC	-----	2	0.167	120/1/60	32/55/19	
FCB-08	WILLIAMS HH-012-W2-D40-1	BASE ELEC	HORIZONTAL DELUXE	1150	0	-----	HYDRONIC	-----	1	0.33	120/1/60	32/49/19	
FCB-10	WILLIAMS LH-012-W2-D60-1	L1 ELEC	HORIZONTAL DELUXE	1250	0	-----	HYDRONIC	-----	1	0.25	120/1/60	28/61/13	
FCB-11	WILLIAMS HH-015-W2-D50-1	L2 ELEC	HORIZONTAL DELUXE	1400	0	-----	HYDRONIC	-----	2	0.167	120/1/60	32/55/19	
FCB-13	WILLIAMS LV-008-W2-D01-1	STAIR 3	VERTICAL WALL MOUNT DELUXE	800	0	HYDRONIC	-----	-----	1	0.25	120/1/60	12/58/30	
FCB-14	WILLIAMS LV-008-W2-D01-1	STAIR 3	VERTICAL WALL MOUNT DELUXE	800	0	HYDRONIC	-----	-----	1	0.25	120/1/60	12/58/30	
FCB-15	WILLIAMS LV-008-W2-D01-1	S STAIR 2	VERTICAL WALL MOUNT DELUXE	800	0	HYDRONIC	-----	-----	1	0.25	120/1/60	12/58/30	
FCB-16	WILLIAMS LH-012-W2-D60-1	L3 ELECT	HORIZONTAL DELUXE	1200	0	-----	HYDRONIC	-----	1	0.25	120/1/60	28/61/13	
FCB-17	WILLIAMS HH-018-W2-D40-1	SM ELEV	HORIZONTAL DELUXE	1600	0	-----	HYDRONIC	-----	2	0.25	120/1/60	32/61/19	1
FCB-18	WILLIAMS LH-010-W2-D60-1	MAIN ELEC	HORIZONTAL DELUXE	1000	0	-----	HYDRONIC	-----	1	0.25	120/1/60	28/61/13	
FCB-19	WILLIAMS AH-B-012	BRK	HORIZONTAL RETURN PLENUM	1350	0.263	HYDRONIC	HYDRONIC	NO	0	1	120/1/60		
FCC-01	WILLIAMS HH-018-W2-D50-1	CHILL	HORIZONTAL DELUXE	1800	0	-----	HYDRONIC	-----	2	0.25	120/1/60	32/61/19	
FCC-02	WILLIAMS HH-018-W2-D50-1	CHILL	HORIZONTAL DELUXE	1800	0	-----	HYDRONIC	-----	2	0.25	120/1/60	32/61/19	

1. PROVIDE CONDENSATE PUMP

FAN COIL, HYDRONIC COIL SCHEDULE

		AIR					HYDRONIC					PHYSICAL	
ID	USAGE	AIRFLOW RATE (CFM)	LOAD (BTU/H)	SENSIBLE LOAD (BTU/H)	ENTERING TEMP. DB/WB (°F)	LEAVING TEMP. DB/WB (°F)	FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	2-PIPE HYDRONIC CHANGEOVER	MINIMUM NO. ROWS/ FINS PER INCH	NOTES
FCA-01	COOLING	1000	21100	18500	72/53.3	52/43.9	8.2	42/47.1	WATER	5	-----	6/12	
FCA-02	HEATING	500	13300	13300	72/53.3	100.8/63.1	0.5	180/120	WATER	5	-----	1/12	
FCA-03	COOLING	1600	33800	29600	72/53.3	52/43.9	11	42/48.1	WATER	5	-----	4/12	
FCA-04	COOLING	1600	33800	29600	72/53.3	52/43.9	11	42/48.1	WATER	5	-----	4/12	
FCA-05	COOLING	1600	33800	29600	72/53.3	52/43.9	11	42/48.1	WATER	5	-----	4/12	
FCA-06	HEATING	500	13300	13300	72/53.3	100.8/63.1	0.5	180/120	WATER	5	-----	1/12	
FCA-07	COOLING	1600	33800	29600	72/53.3	52/43.9	11	42/48.1	WATER	5	-----	4/12	
FCB-01	COOLING	2000	42200	36900	72/53.3	52/43.9	13.1	42/48.4	WATER	5	-----	4/12	
FCB-02	COOLING	2000	42200	36900	72/53.3	52/43.9	13.1	42/48.4	WATER	5	-----	4/12	
FCB-03	COOLING	2000	42200	36900	72/53.3	52/43.9	13.1	42/48.4	WATER	5	-----	4/12	
FCB-04	HEATING	800	21300	21300	72/53.3	100.8/63.1	0.7	180/120	WATER	5	-----	1/12	
FCB-05	COOLING	1000	21100	18500	72/53.3	52/43.9	8.2	42/47.1	WATER	5	-----	6/12	
FCB-06	COOLING	1500	15800	13900	72/53.3	62/48.3	3.8	42/50.4	WATER	15	-----	2/12	
FCB-07	COOLING	1500	15800	13900	72/53.3	62/48.3	3.8	42/50.4	WATER	15	-----	2/12	
FCB-08	COOLING	1150	24300	21200	72/53.3	52/43.9	9.5	42/47.1	WATER	5	-----	4/12	
FCB-10	COOLING	1250	26400	23100	72/53.3	52/43.9	8.1	42/48.5	WATER	5	-----	6/12	
FCB-11	COOLING	1400	29500	25900	72/53.3	52/43.9	11.5	42/47.1	WATER	5	-----	5/12	
FCB-13	HEATING	800	21300	21300	72/53.3	100.8/63.1	0.7	180/120	WATER	5	-----	1/12	
FCB-14	HEATING	800	21300	21300	72/53.3	100.8/63.1	0.7	180/120	WATER	5	-----	1/12	
FCB-15	HEATING	800	21300	21300	72/53.3	100.8/63.1	0.7	180/120	WATER	5	-----	1/12	
FCB-16	COOLING	1200	25300	22200	72/53.3	52/43.9	6.7	42/49.5	WATER	5	-----	6/12	
FCB-17	COOLING	1600	33800	29600	72/53.3	52/43.9	11	42/48.1	WATER	5	-----	4/12	1
FCB-18	COOLING	1000	21100	18500	72/53.3	52/43.9	8.2	42/47.1	WATER	5	-----	6/12	
FCB-19	HEATING	1350	34800	34800	66.7/56.5	94.6/65.5	3.6	180/160	WATER	5	NO	0/0	
	COOLING	1350	33900	29600	75.7/60.2	52/50.5	8.5	42/50	WATER	5		0/0	
FCC-01	COOLING	1800	38000	33200	72/53.3	52/43.9	12.4	42/48.1	WATER	5	-----	5/12	
FCC-02	COOLING	1800	38000	33200	72/53.3	52/43.9	12.4	42/48.1	WATER	5	-----	5/12	

1. PROVIDE CONDENSATE PUMP

FILTER SCHEDULE

						AIR		PHYSICAL		
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	FILTRATION	TYPE	ARRANG.	CLEAN STATIC PRESSURE (IN. H2O)	DIRTY STATIC PRESSURE (IN. H2O)	NUMBER 24"X24" MODULES	NUMBER 12"X24" MODULES	NOTES
F-1.1	FARR 3030	AH-1	MERV 8	CARTRIDGE	FLAT	0.5	0.6	42	0	
F-1.2	FARR XH ABSOLUTE	AH-1	MERV 20	HEPA	FLAT	1	1.1	42	0	1
F-1.3	FARR DURAFIL 85%	AH-1	MERV 14	BAG	FLAT	0.7	1.1	42	0	
F-2.1	FARR 3030	AH-2	MERV 8	CARTRIDGE	FLAT	0.5	0.6	42	0	
F-2.2	FARR XH ABSOLUTE	AH-2	MERV 20	HEPA	FLAT	1	1.1	42	0	1
F-2.3	FARR DURAFIL 85%	AH-2	MERV 14	BAG	FLAT	0.7	1.1	42	0	
F-3.1	FARR 3030	AH-3	MERV 8	CARTRIDGE	FLAT	0.5	0.6	21	0	
F-3.2	FARR XH ABSOLUTE	AH-3	MERV 20	HEPA	FLAT	1	1.1	21	0	1
F-3.3	FARR DURAFIL 85%	AH-3	MERV 14	BAG	FLAT	0.7	1.1	21	0	
F-4.1	FARR 3030	AH-4	MERV 8	CARTRIDGE	FLAT	0.5	0.6	21	0	
F-4.2	FARR XH ABSOLUTE	AH-4	MERV 20	HEPA	FLAT	1	1.1	21	0	1
F-4.3	FARR DURAFIL 85%	AH-4	MERV 14	BAG	FLAT	0.7	1.1	21	0	

1. PROVIDE FILTER RACK ONLY, OMIT FILTERS

GLYCOL FEED SYSTEM SCHEDULE

				FLUID		COLD		ELECTRICAL		PHYSICAL			
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	WORKING FLUID	TOTAL VOLUME (GAL)	STATIC FILL PRESSURE (PSIG)	PRESSURE RATING (PSIG)	VOLT/PH/HZ	ALARM PANEL	LENGTH/ WIDTH/ HEIGHT (IN)	NPT FITTING (IN)	TANK SIZE (GAL)	NOTES
GFS-PW-1		MECH RM	STANDARD	30% P GLY	647.3	4	0	120/1/60	-----			0	
GFS-1		BOIL RM	STANDARD	30% P GLY	664.2	4	0	120/1/60	-----			0	
GFS-2		BOIL RM	STANDARD	40% P GLY	1291.9	4	0	120/1/60	-----			0	

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MECHANICAL SCHEDULES

M602

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HYDRONIC SINGLE DUCT TERMINAL UNIT SCHEDULE

						AIR							FLUID				PHYSICAL	SOUND	
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	INLET SIZE (IN)	USAGE	HEATING SEASON AIRFLOW RATE (CFM)	COOLING SEASON AIRFLOW RATE (CFM)	MINIMUM AIRFLOW (CFM)	LOAD (BTU/H)	ENTERING TEMP. DB (°F)	LEAVING TEMP. DB (°F)	STATIC PRESSURE (IN. H2O)	FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	MINIMUM NO. ROWS/ FINS PER INCH	NC LEVEL: RADIATED/ DISCHARGE	NOTES
V-06	TITUS DESV	FLOOR	STANDARD	6	HEATING	230	390	79	7400	55	90	0.4	1	180/152.5	WATER	2	2/6	0/0	1-8
V-08	TITUS DESV	FLOOR	STANDARD	8	HEATING	410	690	140	13300	55	90	0.5	1	180/152.5	WATER	2	2/6	0/0	1-8
V-10	TITUS DESV	FLOOR	STANDARD	10	HEATING	650	1080	219	21000	55	90	0.5	1.5	180/152.5	WATER	2	2/6	0/0	1-8
V-12	TITUS DESV	FLOOR	STANDARD	12	HEATING	940	1570	315	30400	55	90	0.5	2.5	180/152.5	WATER	2	2/6	0/0	1-8
V-14	TITUS DESV	FLOOR	STANDARD	14	HEATING	1280	2130	428	41400	55	90	0.5	3	180/152.5	WATER	2	2/6	0/0	1-8
V-16	TITUS DESV	FLOOR	STANDARD	16	HEATING	1670	2790	559	54000	55	90	0.55	4	180/152.5	WATER	2	2/6	0/0	1-8
V-20	TITUS DESV	FLOOR	STANDARD	20	HEATING	2900	4500	873	93700	55	90	0.65	6.5	180/152.5	WATER	2	2/6	0/0	1-8

1. BOX COOLING AIRFLOW IS SUM OF CONNECTIONS SHOWN IN DRAWINGS
2. HEATING CAPACITY BASED ON HEATING MAX AIRFLOW (60% OF COOLING FOR INTERIOR BOXES, 100% OF COOLING FOR BOXES SERVING ROOMS WITH EXTERIOR ROOF OR WALLS)
3. MINIMUM AIRFLOW IS LOWEST CONTROLLABLE SETTING (BASED ON 400 FPM INLET)
4. NC AT 1" H2O SP TO BE LESS THAN 1" PER ARI STAND 880-89
5. SET BOX MINIMUM AIRFLOW AT 30% OF COOLING MAXIMUM
6. STATIC PRESSURE DROP IS AT MAX COOLING AIRFLOW
7. VAV BOX CIRCUIT SETTER SIZE (GPM*): <1.5/.5, >1.5 TO 6.5/.75", >6.5 TO 14/1"
8. VAV BOX PIPING SIZES (GPM*): TO 3.5/.75", >3.5 TO 6.5 /1", >6.5 TO 14 /1.25"

HYDRONIC-TO-HYDRONIC HEAT EXCHANGER SCHEDULE

						SOURCE MEDIUM (HYDRONIC)				TRANSFER MEDIUM (HYDRONIC)				PHYSICAL		
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	USAGE	LOAD (BTU/H)	FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	DIA./ LENGTH/ NO. PLATES (IN/IN)	SURFACE AREA (FT²)	NOTES
HX-01	TACO PF 71-143-1-XX	CHILL RM	PLATE & FRAME	COOLING	2400000	478.8	45/55	WATER	15	399.3	59/47	WATER	10	/43.307/143	1062.4	
HX-1	TACO PF 22-79-1-XX	MRI	PLATE & FRAME	COOLING	270400	54.3	44/54	WATER	15	54	56/46	WATER	15	/37.205/79	174.05	
HX-02	TACO PF 22-75-1-XX	CHILL RM	PLATE & FRAME	COOLING	493400	98.4	42/52	WATER	15	79.5	56.5/44	WATER	15	/37.205/75	165.01	
HX-03	TACO PF 22-75-1-XX	CHILL RM	PLATE & FRAME	COOLING	493400	98.4	42/52	WATER	15	79.5	56.5/44	WATER	15	/37.205/75	165.01	
PHX-01	TACO G22408-6L	PHOUSE	SHELL & TUBE	HEATING	1896600	259.3	180/165	WATER	15	131.9	125/155	30% P GLY	15	22/73/	265	1-2
PHX-02	TACO G22408-6L	PHOUSE	SHELL & TUBE	HEATING	1896600	259.3	180/165	WATER	15	131.9	125/155	30% P GLY	15	22/73/	265	1-2
SMHX-01	TACO G18412-4L	BASEMENT	SHELL & TUBE	HEATING	1962000	134.1	180/150	WATER	15	122	111.7/146	40% P GLY	15	18/90.5/	269.7	1-2
SMHX-02	TACO G18412-4L	BASEMENT	SHELL & TUBE	HEATING	1962000	134.1	180/150	WATER	15	122	111.7/146	40% P GLY	15	18/90.5/	269.7	1-2

1. UNIT TOTAL LENGTH SHALL NOT EXCEEED 60"
2. ASME CERTIFIED

LOUVER SCHEDULE

					AIR		PHYSICAL	
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR TYPE	MAXIMUM AIRFLOW RATE (CFM)	STATIC PRESSURE (IN. H2O)	WIDTH/ HEIGHT/ THICKNESS (IN)	NOTES
CL-01	RUSKIN ELF6375DX	BOIL RM	STATIONARY	COMB F-DRAFT	7050	0.15	72/84/6	1
CL-02	RUSKIN ELF6375DX	BOIL RM	STATIONARY	COMB F-DRAFT	7050	0.15	72/84/6	1

1. LOUVER WITH INSECT SCREEN

PUMP SCHEDULE

				FLUID			PUMP		ELECTRICAL				
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLOW RATE (GPM)	WORKING FLUID	HEAD LOSS (FT)	EFFICIENCY (%)	CONSTRUCTION	MOTOR SIZE (HP)	MOTOR BHP (HP)	MOTOR SPEED (RPM)	VOLT/PH/HZ	NOTES
CP-01	TACO VR20@40FT	HC-01	VERTICAL CLOSE-COUPLED INLINE	31.8	30% P GLY	38.9	N/A	IRON	1.088	N/A	3450	460/3/60	
CP-02	TACO VR20@40FT	HC-02	VERTICAL CLOSE-COUPLED INLINE	31.8	30% P GLY	38.9	N/A	IRON	1.088	N/A	3450	460/3/60	
CP-03	TACO VR30@0FT	HC-03	VERTICAL CLOSE-COUPLED INLINE	41.1	30% P GLY	41.9	N/A	IRON	2.175	N/A	3450	460/3/60	
CP-04	TACO VR20@0FT	HC-04	VERTICAL CLOSE-COUPLED INLINE	27.2	30% P GLY	39.4	N/A	IRON	1.088	N/A	3450	460/3/60	
CWP-01	TACO TA1224	CHILL RM	HORIZ FRAME-MOUNT SPLIT-CASE	855.4	WATER	55.5	82.1	IRON	15	14.569	1760	460/3/60	
CWP-02	TACO TA1224	CHILL RM	HORIZ FRAME-MOUNT SPLIT-CASE	855.4	WATER	55.5	82.1	IRON	15	14.569	1760	460/3/60	
CWP-03	TACO FI5009C	CHILL RM	HORIZ FRAME-MOUNT END-SUCTION	836.6	WATER	39.1	80.4	BRONZE FITTED	15	10.26	1760	460/3/60	
CWP-04	TACO FI5009C	CHILL RM	HORIZ FRAME-MOUNT END-SUCTION	836.6	WATER	39.1	80.4	BRONZE FITTED	15	10.26	1760	460/3/60	
CWP-05	TACO FI4007	CHILL RM	HORIZ FRAME-MOUNT END-SUCTION	478.8	WATER	48.4	81.7	BRONZE FITTED	10	7.16	1760	460/3/60	
LINP-01	GRUNDFOS CRE 1-7	LINAC	VERTICAL CLOSE-COUPLED INLINE	10	WATER	104.4	92	OTHER	0.75		3464	460/3/60	
MRIP-01	TACO KV1506	MRI	VERTICAL CLOSE-COUPLED INLINE	56.8	30% P GLY	86.3	50.3	BRONZE FITTED	5	2.548	3500	460/3/60	
P-PW-1	TACO VR30@0FT	MECH	VERTICAL CLOSE-COUPLED INLINE	56.8	30% P GLY	43.9	N/A	IRON	2.175	N/A	3450	460/3/60	1
P-PW-1	TACO VR30@0FT	MECH	VERTICAL CLOSE-COUPLED INLINE	56.8	30% P GLY	43.9	N/A	IRON	2.175	N/A	3450	460/3/60	1
PCHWP-01	TACO FI4013	CHILL RM	HORIZ FRAME-MOUNT END-SUCTION	585.7	WATER	109.5	78.4	BRONZE FITTED	30	20.668	1760	460/3/60	
PCHWP-02	TACO FI4013	CHILL RM	HORIZ FRAME-MOUNT END-SUCTION	585.7	WATER	109.5	78.4	BRONZE FITTED	30	20.668	1760	460/3/60	
PCHWP-03	TACO FI3011	CHILL RM	HORIZ FRAME-MOUNT END-SUCTION	399.3	WATER	95.9	76.4	BRONZE FITTED	20	12.671	1760	460/3/60	
PCP-01	TACO FI1206	PROCESS	HORIZ FRAME-MOUNT END-SUCTION	79.5	WATER	133.4	64.3	BRONZE FITTED	7.5	4.169	3500	460/3/60	
PCP-02	TACO FI1206	PROCESS	HORIZ FRAME-MOUNT END-SUCTION	79.5	WATER	133.4	64.3	BRONZE FITTED	7.5	4.169	3500	460/3/60	
PHP-01	TACO FI2009C	BOIL RM	HORIZ FRAME-MOUNT END-SUCTION	131.9	30% P GLY	62.1	65.3	BRONZE FITTED	5	3.208	1760	460/3/60	
PHP-02	TACO FI2009C	BOIL RM	HORIZ FRAME-MOUNT END-SUCTION	131.9	30% P GLY	62.1	65.3	BRONZE FITTED	5	3.208	1760	460/3/60	
RHP-01	TACO FI5013	BOIL RM	HORIZ FRAME-MOUNT END-SUCTION	974.6	WATER	137.8	83.8	BRONZE FITTED	50	40.053	1760	460/3/60	
RHP-02	TACO FI5013	BOIL RM	HORIZ FRAME-MOUNT END-SUCTION	974.6	WATER	137.8	83.8	BRONZE FITTED	50	40.053	1760	460/3/60	
SMP-01	TACO FI4013	BASEMENT	HORIZ FRAME-MOUNT END-SUCTION	122	40% P GLY	137.9	38.1	BRONZE FITTED	40	11.653	1760	460/3/60	2
SMP-02	TACO FI4013	BASEMENT	HORIZ FRAME-MOUNT END-SUCTION	122	40% P GLY	137.9	38.1	BRONZE FITTED	40	11.653	1760	460/3/60	2

1. PUMP INTEGRAL TO CH-3
2. HEAD LOSS ADJUSTED FOR COLD START AT 35°F

SPACE SCHEDULE

		AIRFLOW (HEATING SEASON/COOLING SEASON)							AIR	
ID	LOCATION	SUPPLY AIRFLOW RATE (CFM)	RETURN AIRFLOW RATE (CFM)	RELIEF AIRFLOW RATE (CFM)	OUTSIDE AIRFLOW RATE (CFM)	EXHAUST AIRFLOW RATE (CFM)	PRESSURIZATION AIRFLOW RATE (CFM)	VENTILATION AIRFLOW RATE (CFM)	HEATING SEASON COOLING SEASON DB/RH (°F/%)	NOTES
CLINIC	CLINIC	20000/35000	6400/21400	0/0	13600/13600	13600/13600	0/0	6000/7000	72/30 72/30	
CLINIC	CLINIC	20000/35000	9400/24400	0/0	10600/10600	10600/10600	0/0	6000/7000	72/30 72/30	
HOSP	HOSPITAL	42000/70000	25200/51870	8518/9848	16800/18130	8283/8283	0/0	16800/18130	72/30 72/30	
HOSP	HOSPITAL	42000/70000	25200/51870	2051/3381	16800/18130	14749/14749	0/0	16800/18130	72/30 72/30	

STACK SCHEDULE

					AIR		PHYSICAL		
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR TYPE	MAXIMUM AIRFLOW RATE (CFM)	STATIC PRESSURE (IN. H2O)	TOTAL HEIGHT (IN)	THROAT DIAMETER (IN)	NOTES
STK-1	CUSTOM	ROOF	FLAT	RELIEF	1575	0.5		12.016	

STEAM FILTER SCHEDULE

				STEAM	PHYSICAL	
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	BODY CONSTRUCTION	FLOW RATE (LB/H)	CONNECT SIZE (IN)	NOTES
STF-1	SPIRAX SARCO CSF-26	PHOUSE	STAINLESS STEEL	300	1.25	
STF-2	SPIRAX SARCO CSF-26	PHOUSE	STAINLESS STEEL	200	1.25	
STF-3	SPIRAX SARCO CSF-26	PHOUSE	STAINLESS STEEL	200	1.25	
STF-4	SPIRAX SARCO CSF-26	PHOUSE	STAINLESS STEEL	300	1.25	
STF-5	SPIRAX SARCO CSF-26	PHOUSE	STAINLESS STEEL	335	1.25	

STEAM SEPARATOR SCHEDULE

					STEAM	PHYSICAL	
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	BODY CONSTRUCTION	FLOW RATE (LB/H)	CONNECT SIZE (IN)	NOTES
SS-1	SPIRAX SARCO S3	LEVEL 2	BAFFLE	CARBON STEEL	300	1.25	
SS-2	SPIRAX SARCO S3	LEVEL 2	BAFFLE	CARBON STEEL	200	1.25	
SS-3	SPIRAX SARCO S3	LEVEL 2	BAFFLE	CARBON STEEL	200	1.25	
SS-4	SPIRAX SARCO S3	LEVEL 2	BAFFLE	CARBON STEEL	300	1.25	
SS-5	SPIRAX SARCO S3	LEVEL 2	BAFFLE	CARBON STEEL	335	1.25	

STEAM TRAP SCHEDULE

					STEAM			PHYSICAL	
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	BODY CONSTRUCTION	FLOW RATE (LB/H)	OPERATING PRESSURE (PSIG)	PRESSURE DROP (PSI)	CONNECT SIZE (IN)	NOTES
ST-1	SPIRAX SARCO FT-75	MECH RM	FLOAT & THERMOSTATIC	CAST IRON	600	50	11.75	0.75	
ST-2		MECH RM	FLOAT & THERMOSTATIC	OTHER	0	80	20		
ST-3	SPIRAX SARCO FT-75	MECH RM	FLOAT & THERMOSTATIC	CAST IRON	400	50	11.2	0.75	
ST-4	SPIRAX SARCO FT-75	MECH RM	FLOAT & THERMOSTATIC	CAST IRON	400	50	11.1	0.75	
ST-5	SPIRAX SARCO FT-75	MECH RM	FLOAT & THERMOSTATIC	CAST IRON	600	50	11.75	0.75	
ST-6	SPIRAX SARCO FT-75	MECH RM	FLOAT & THERMOSTATIC	CAST IRON	670	50	11.75	0.75	
ST-7	SPIRAX SARCO FT-125	MECH RM	FLOAT & THERMOSTATIC	CAST IRON	114	80	19.5	0.75	

ELECTRIC UNIT HEATER SCHEDULE

					AIR				ELECTRICAL					PHYSICAL	
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	USAGE	AIRFLOW RATE (CFM)	LOAD (BTU/H)	ENTERING TEMP. DB (°F)	LEAVING TEMP. DB (°F)	MINIMUM KW	MOTOR QUAN	MOTOR SIZE (HP)	MOTOR SPEED (RPM)	VOLT/PH/HZ	MINIMUM NO. ROWS	NOTES
AHUH-01		AH-1	HORIZONTAL	HEATING	250	9100	65	104.3	2.66					------	
AHUH-02		AH-2	HORIZONTAL	HEATING	250	9100	65	104.3	2.66					------	
UH-01		BOIL	HORIZONTAL	HEATING	1100	18300	72	90	5.36					------	1
UH-02		BOIL	HORIZONTAL	HEATING	1100	18300	72	90	5.36					------	1

1. MOUNT UNIT HEATER 8'-0" ABOVE FINISHED FLOOR

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MECHANICAL SCHEDULES

M603

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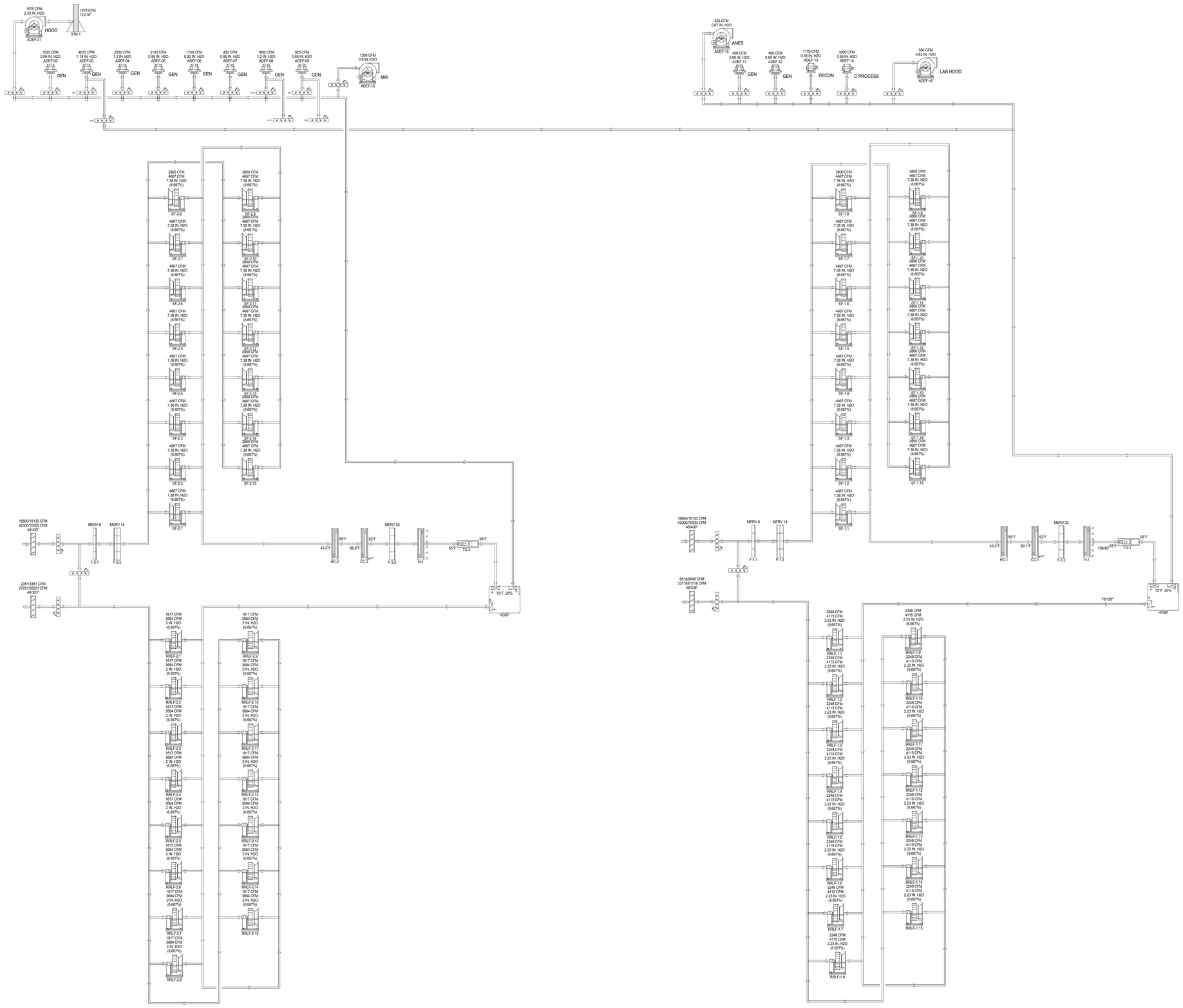

HOSPITAL AIRFLOW SCHEMATIC

AIRFLOW

M7.1

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MECHANICAL SCHEMATICS

M701

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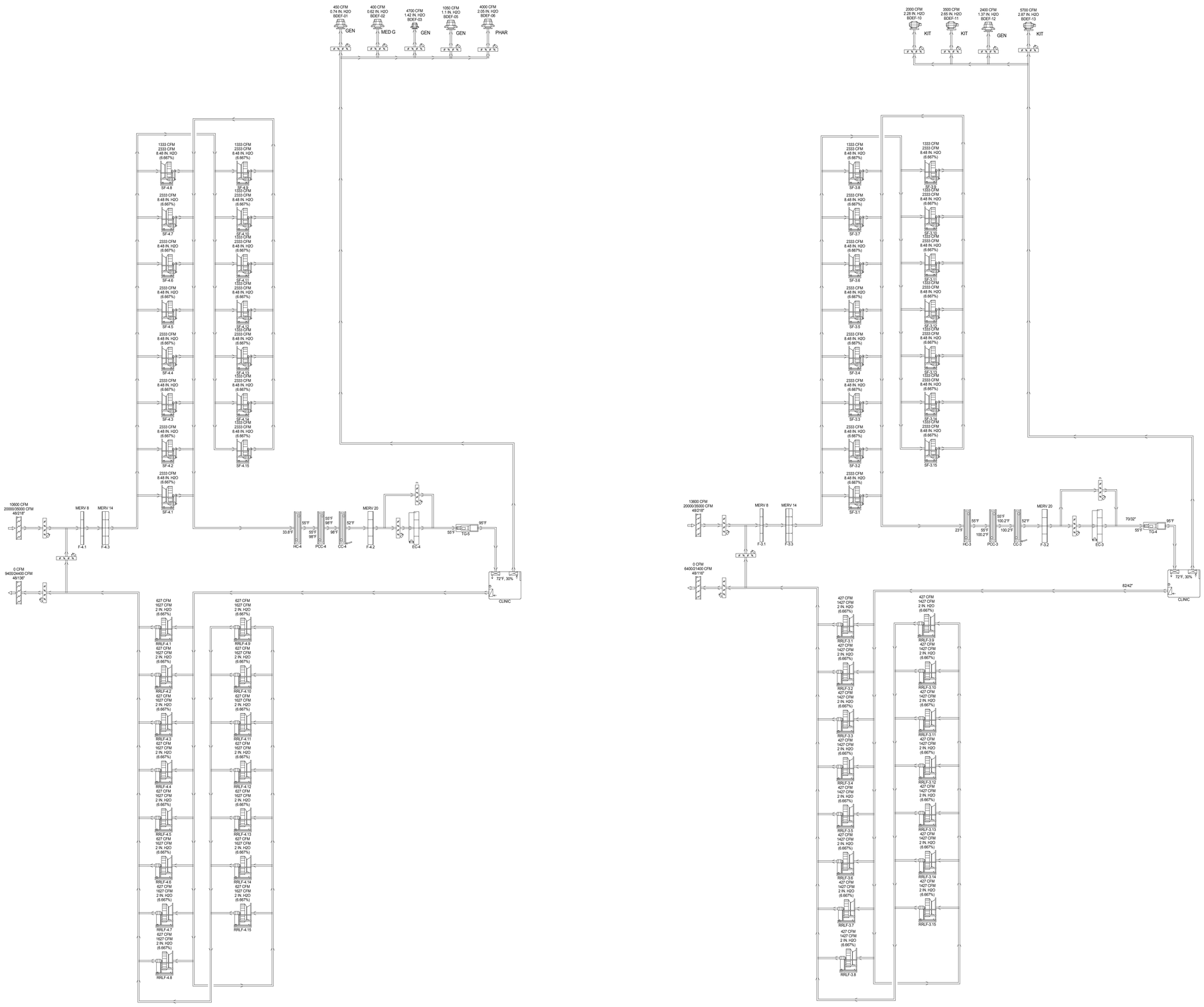

CLINIC AIRFLOW SCHEMATIC

AIRFLOW

M7.2

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MECHANICAL SCHEMATICS

M702

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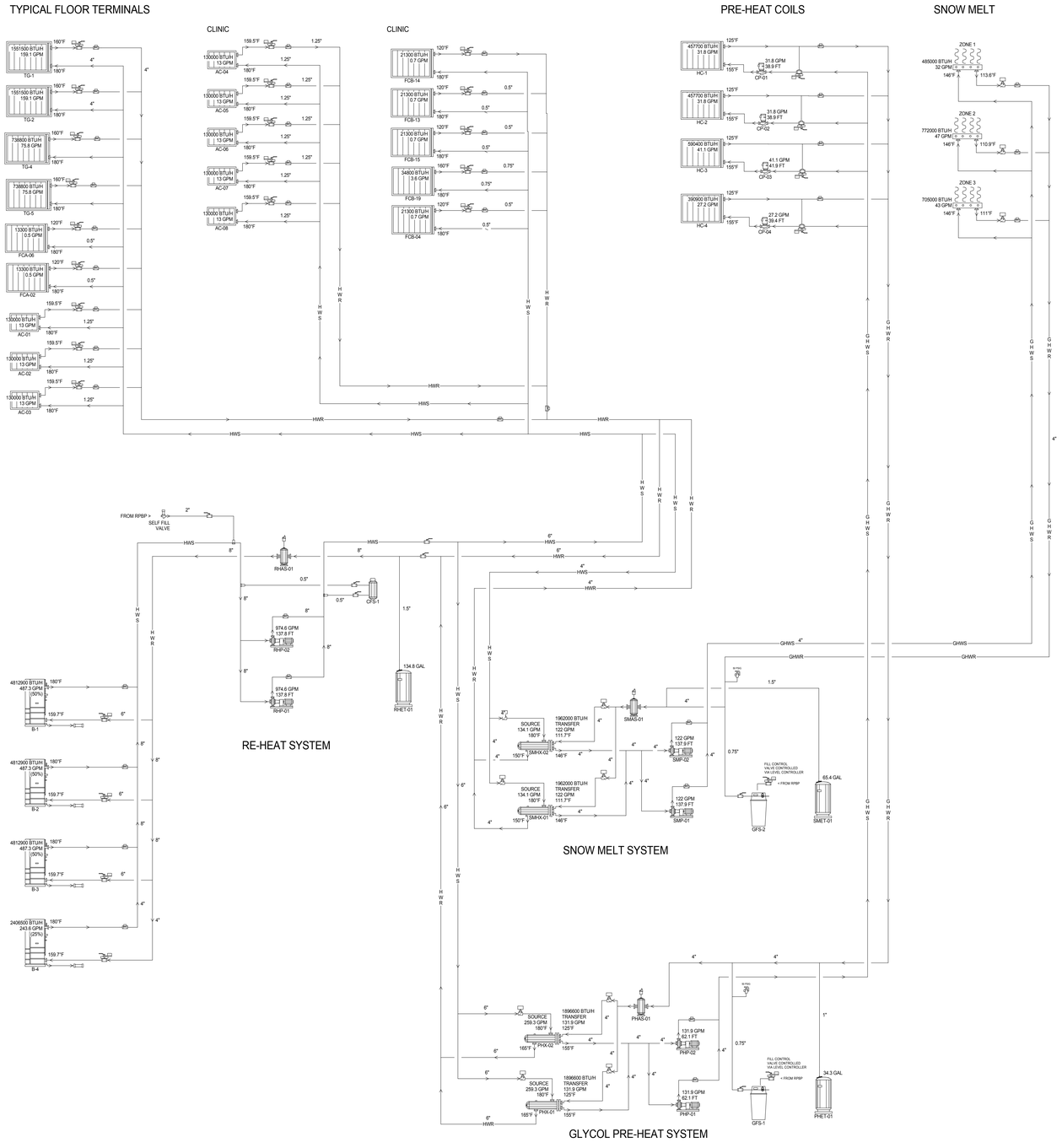
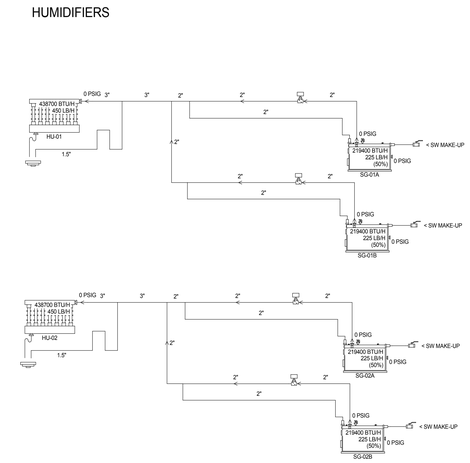
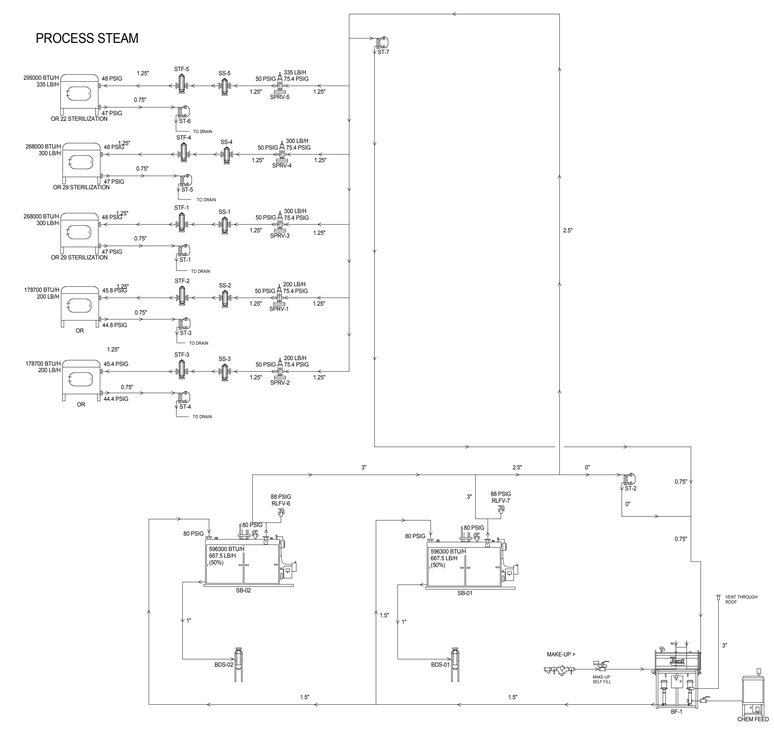


HOT WATER SCHEMATIC



HUMIDIFIER SCHEMATIC



STEAM SCHEMATIC

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MECHANICAL SCHEMATICS

HEATING

M7.3

M703

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