

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

OWNER / DEVELOPER
COMMERCIAL PROPERTIES, INC.
100 SILVER STREET
PORTLAND, ME 04101

PROJECT TITLE
NEPHROLOGY ASSOCIATES - RENOVATIONS
1600 CONGRESS STREET
PORTLAND, MAINE

DRAWING TITLE
MECHANICAL DETAILS AND SCHEDULES
CWS PROJ. NO.: 11422

REVISION	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	12/22/11

DRAWING NUMBER
M2.01

SCALE: 3/8" = 1'-0" UNO.
DATE: 12/22/2011

AIR DEVICE PERFORMANCE SCHEDULE

PANEL	NECK SIDE IN	AREALOW (CFM)	THROU (INCHES)	NO	BASE OF DESIGN (F) HANDED	PATTERN	MODEL	THROU DT
1A6	34x4	646	50	0.05	25	SEE DUG6	SEE DUG6	60" DIA.
2	34x4	393	350	0.05	-	SEE DUG6	SEE DUG6	48" x 34"
3	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
4	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
5	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
6	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
7	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
8	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
9	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
10	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
11	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
12	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
13	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
14	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
15	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
16	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
17	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
18	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
19	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"
20	34x4	502	0.05	-	30	SEE DUG6	SEE DUG6	48" x 34"

TEMPERATURE MIXING VALVE PERFORMANCE SCHEDULE

FLOW RATE (GPM)	NET (INCHES)	GHE ET (INCHES)	HEAT (BTU)	SET POINT (DEGREES F)	PROVIDE SPACE (INCHES)	SERVICE (DEGREES F)	MODEL
1A6	40	1	14	10	10	10	TR-200-01
THV	-	-	-	-	-	-	-

PLUMBING FIXTURE CONNECTION SCHEDULE

1A6	DESCRIPTION	5AN	6BT	CU	6AS
F1	FLOOR WINDY TANK-TYPE WC	3"	2"	1/2"	-
F2	ADA WALL HANG TYP WC	1 1/2"	1 1/2"	1/2"	1/2"
F3	ADA SHOWER SHOWER VALVE AND 2" TD	2" TD	1 1/2"	1/2"	1/2"
F4	ADA SHOWER SHOWER VALVE AND 2" TD	1 1/2"	1 1/2"	1/2"	1/2"
F5	36" X 24" TUB BATH W/ 1" TRAP REFER	3"	2"	1/2"	1/2"
F6	STAINLESS STEEL CONTAINER SINK	1 1/2"	1 1/2"	1/2"	1/2"
2TD	2" FLOOR DRAIN W/ TRAP REFER CONNECTION	2"	2"	1/2"	1/2"
3TD	3" FLOOR DRAIN W/ TRAP REFER CONNECTION	3"	2"	1/2"	1/2"
ETP	ELECTRONIC TRAP REFER (ETP)	-	2"	1/2"	-
III	NOBLECT WASTE RECEPTOR	3"	2"	1/2"	-

MINIPIE SIZE OF 80T OIL SUMP SANITARY 1" HOT PIPING SHALL BE 2"
FROM TRAP REFER
NOTE: Fixtures tagged with a (T) shall have trap presses connected to existing floor drain.

SPLIT SYSTEM AIR CONDITIONER PERFORMANCE SCHEDULE

1A6	TOTAL COOLING CAPACITY (BTU/H)	MOISTURE CONDENSATION (GALLONS/HR)	ENERG RATING (SEER)	SEASONAL ENERGY EFFICIENCY RATIO (SEER)	REFRIGERANT PIPE SIZE (IN)	ELECTRICAL REQUIREMENTS	MODEL
1A6	11.5	2.00	2.1	13	1/2	40	R4-10A
5AC1	-	-	-	-	-	-	-

SPLIT SYSTEM CONDENSING UNIT PERFORMANCE SCHEDULE

1A6	TOTAL COOLING CAPACITY (BTU/H)	MOISTURE CONDENSATION (GALLONS/HR)	ENERG RATING (SEER)	SEASONAL ENERGY EFFICIENCY RATIO (SEER)	REFRIGERANT PIPE SIZE (IN)	ELECTRICAL REQUIREMENTS	MODEL
1A6 <td>11.5</td> <td>2.00</td> <td>2.1</td> <td>13</td> <td>1/2</td> <td>40</td> <td>R4-10A</td>	11.5	2.00	2.1	13	1/2	40	R4-10A
5AC1	-	-	-	-	-	-	-

ELECTRIC WATER HEATER PERFORMANCE SCHEDULE

1A6	FLOW RATE (GPM)	HEAT INPUT (BTU/H)	EFFICIENCY (%)	TYPE	MODEL
1A6 <td>40</td> <td>4.5</td> <td>20.25</td> <td>200/160</td> <td>36" X 27"</td>	40	4.5	20.25	200/160	36" X 27"
5AC1	-	-	-	-	-

PUMP PERFORMANCE SCHEDULE

1A6	FLOW RATE (GPM)	HEAD (FEET)	EFFICIENCY (%)	TYPE	MODEL
1A6 <td>40</td> <td>5.0</td> <td>33.00</td> <td>1/2"</td> <td>120/160</td>	40	5.0	33.00	1/2"	120/160
5AC1	-	-	-	-	-

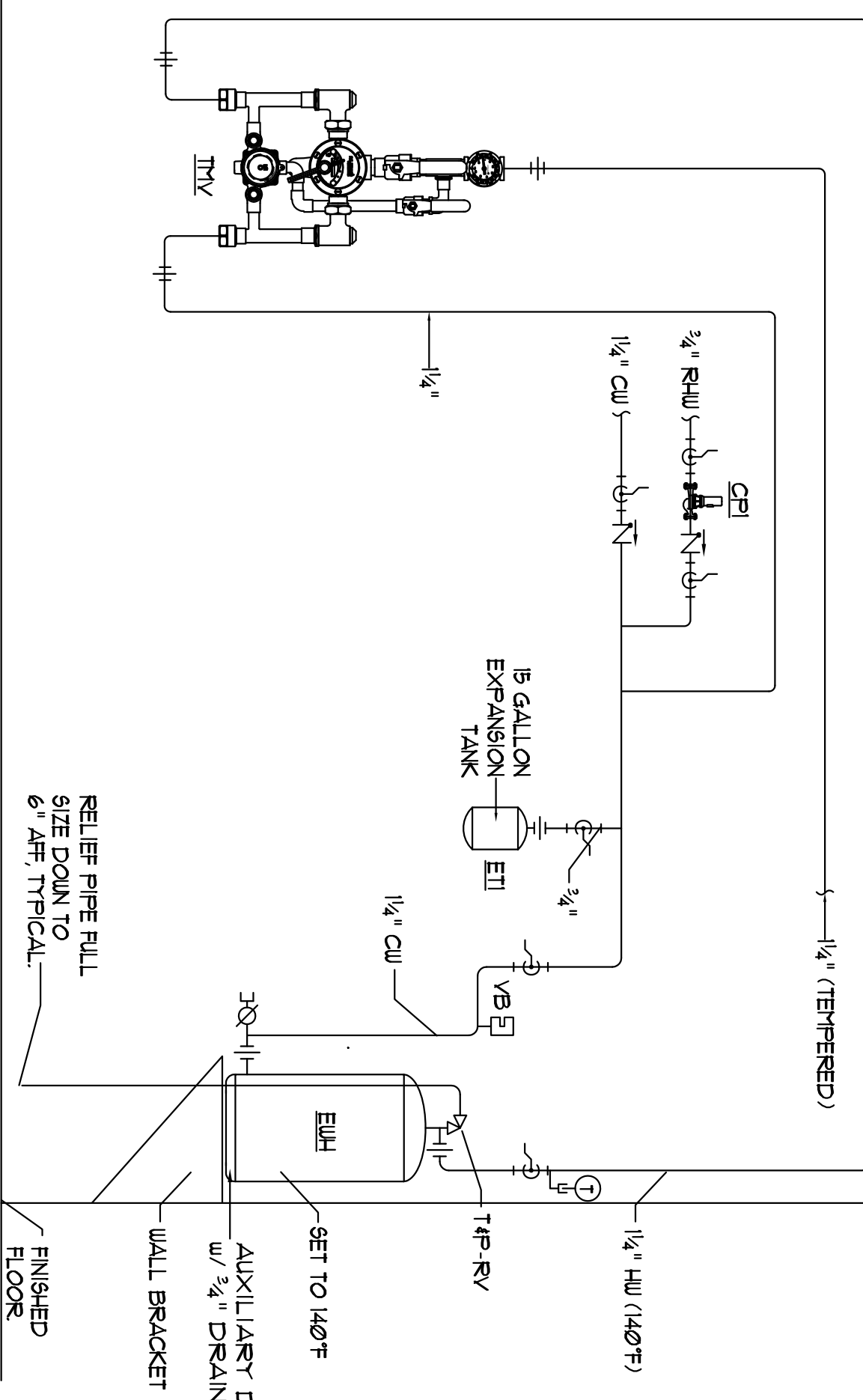
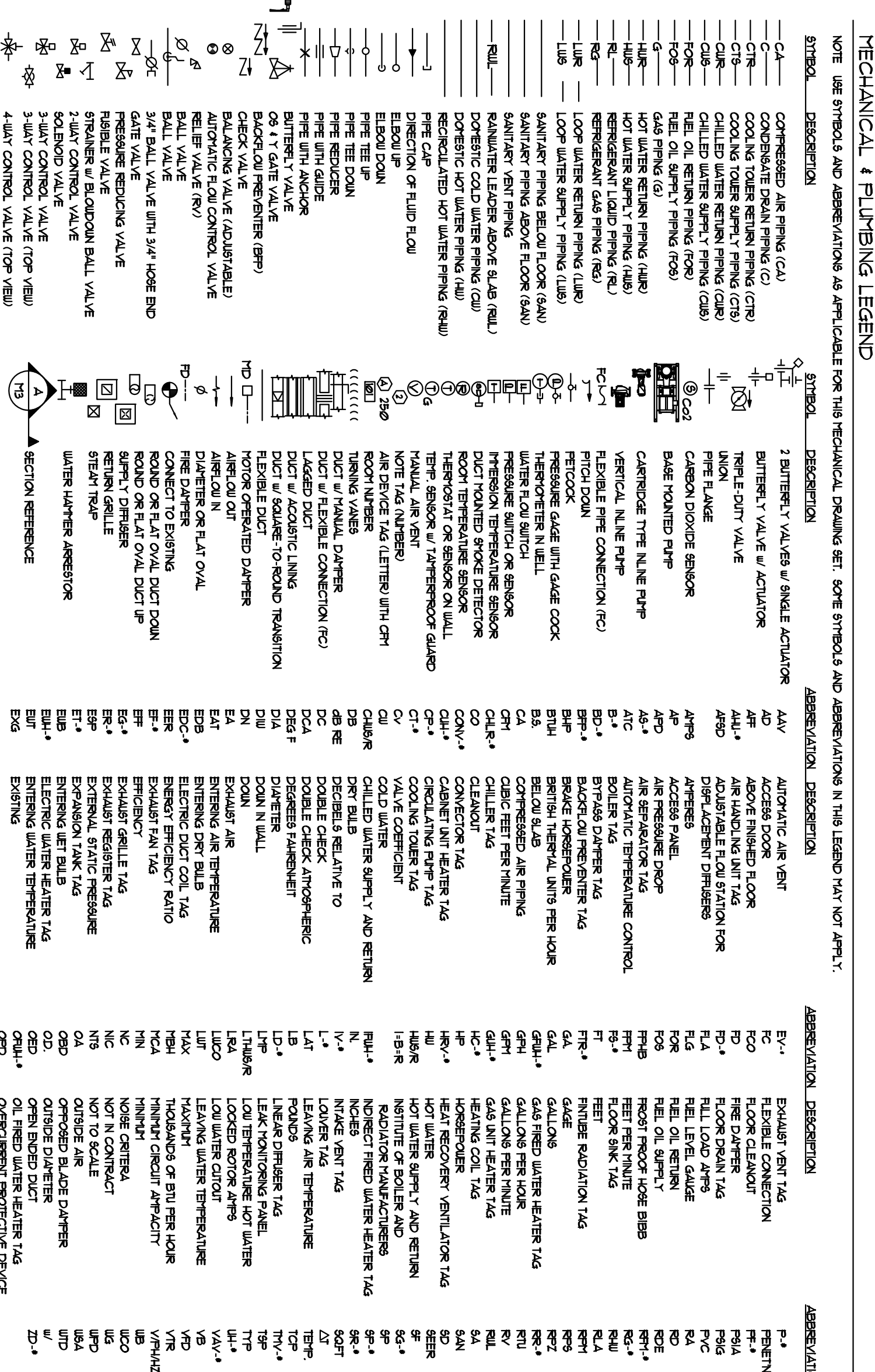
FAN PERFORMANCE SCHEDULE

1A6	FLOW RATE (CFM)	NOISE (DB)	DRIVE	TYPE	MODEL
1A6 <td>80</td> <td>0.1</td> <td>0.3</td> <td>DIR</td> <td>300</td>	80	0.1	0.3	DIR	300
5AC1	-	-	-	-	-

MOTORIZED BYPASS DRYER PERFORMANCE SCHEDULE

1A6	SIZE	TYPE	MODEL	SERVICE
1A6	24x24	0.1	0.1	0.1
5AC1	-	-	-	-

MECHANICAL & PLUMBING LEGEND



DOMESTIC HOT WATER PIPING SCHEMATIC

PROVIDE & INSTALL FOLLOWUP AS PER BUILDING REGULATIONS

4" DIA. 40' GALV. STEEL PIPE (CONC. TILED)

8" DIA. SONOTUBE

CONCRETE

FINISH GRADE ASPHALT PAVEMENT

RELIEF PIPE FILL SIZE DOWN TO 6" APT. TYPICAL

WALL BRACKET

AUXILIARY DRAIN PAN W/ 1/2" DRAIN

SET TO 140°F

1" RP RV

1/4" CU

1/4" CU

1/4" CU

1/4" CU

1/4" CU

1/4" CU

1/4" CU

1/4" CU

1/4" CU

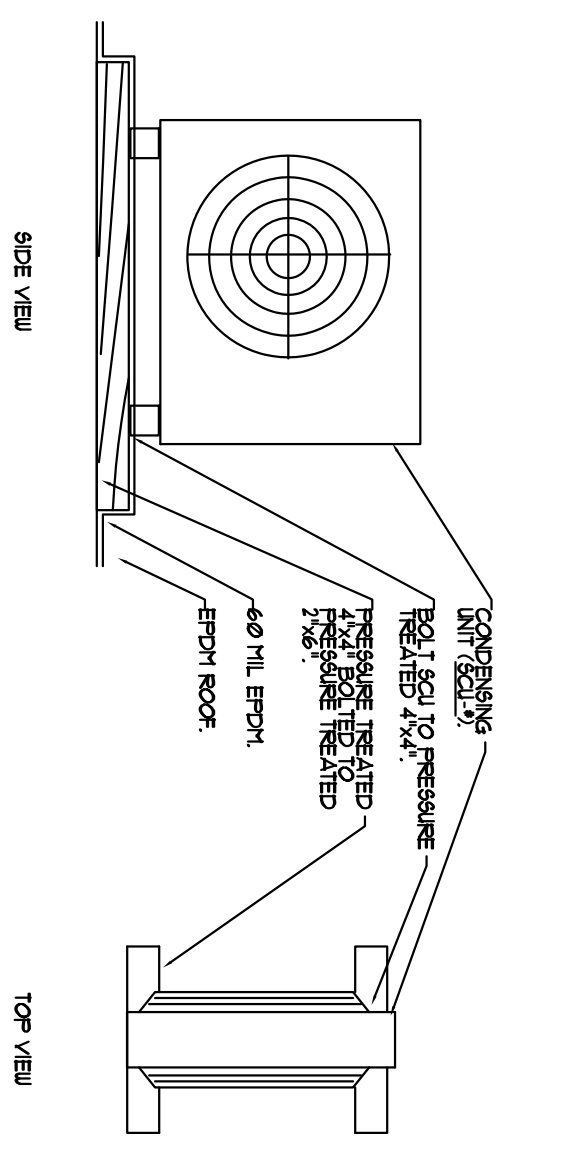
1/4" CU

1/4" CU

1/4" CU

1/4" CU

1/4" CU



ROOF MOUNTED CONDENSING UNIT FOUNDATION DETAIL &

CONDENSING UNIT TO BE INSTALLED TO BE PROTECTED FROM OVERHEATING

40" TYP. SPAC. FROM ROOF

ROOF

THICKET INSULATION

ROOF

ELIMINATE CONDENSING UNIT & ABOVE ROOF DECK

ROOF

ROOF

ROOF

ROOF

ROOF

ROOF

ROOF

ROOF

ROOF

ROOF

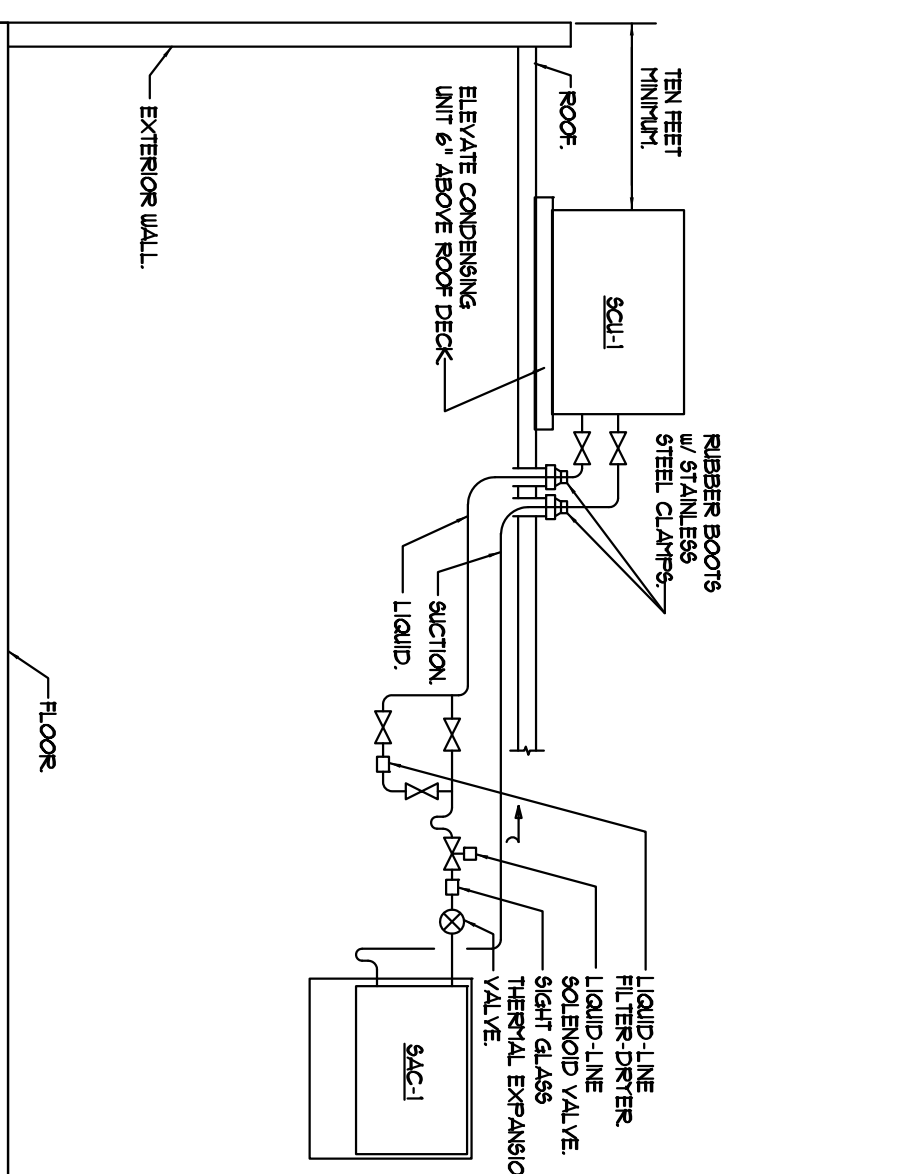
ROOF

ROOF

ROOF

ROOF

ROOF



REFRIGERANT PIPING DETAIL

LIQUID LINE

LIQUID LINE

LIQUID LINE

LIQUID LINE

LIQUID LINE

LIQUID LINE