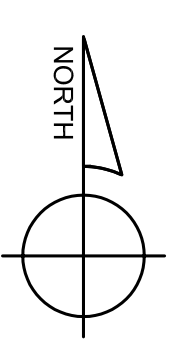


General Notes

1. See the "Variable Air Volume Box Schedule" and revised submittals for net duct sizes.
2. All ductwork downstream of variable air volume boxes shall have 1/2" thick acoustical duct liner.
3. The heating system shall be filled with a 30% aqueous solution of 30% propylene glycol (Dowfrost) and water.

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First Floor | HVAC Plan

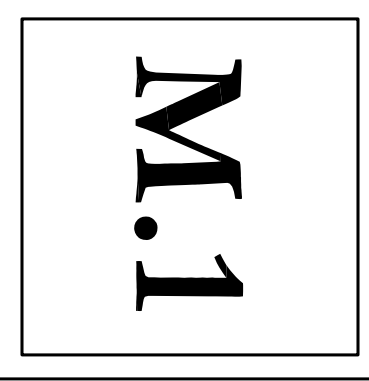
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Scale: 1/8"=1' RRA Project No. RRA2007.15.00
Date: 3.31.08 Revised:

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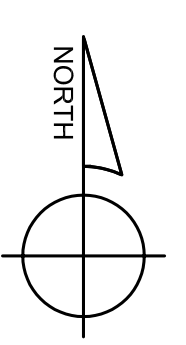
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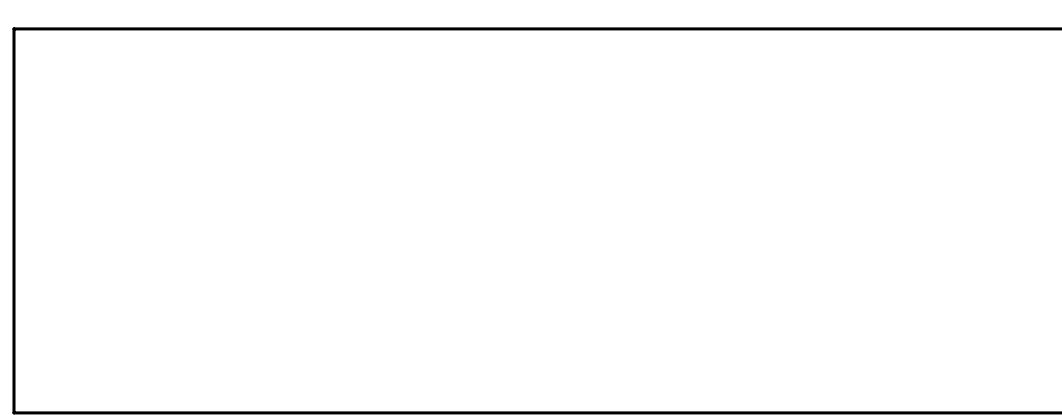
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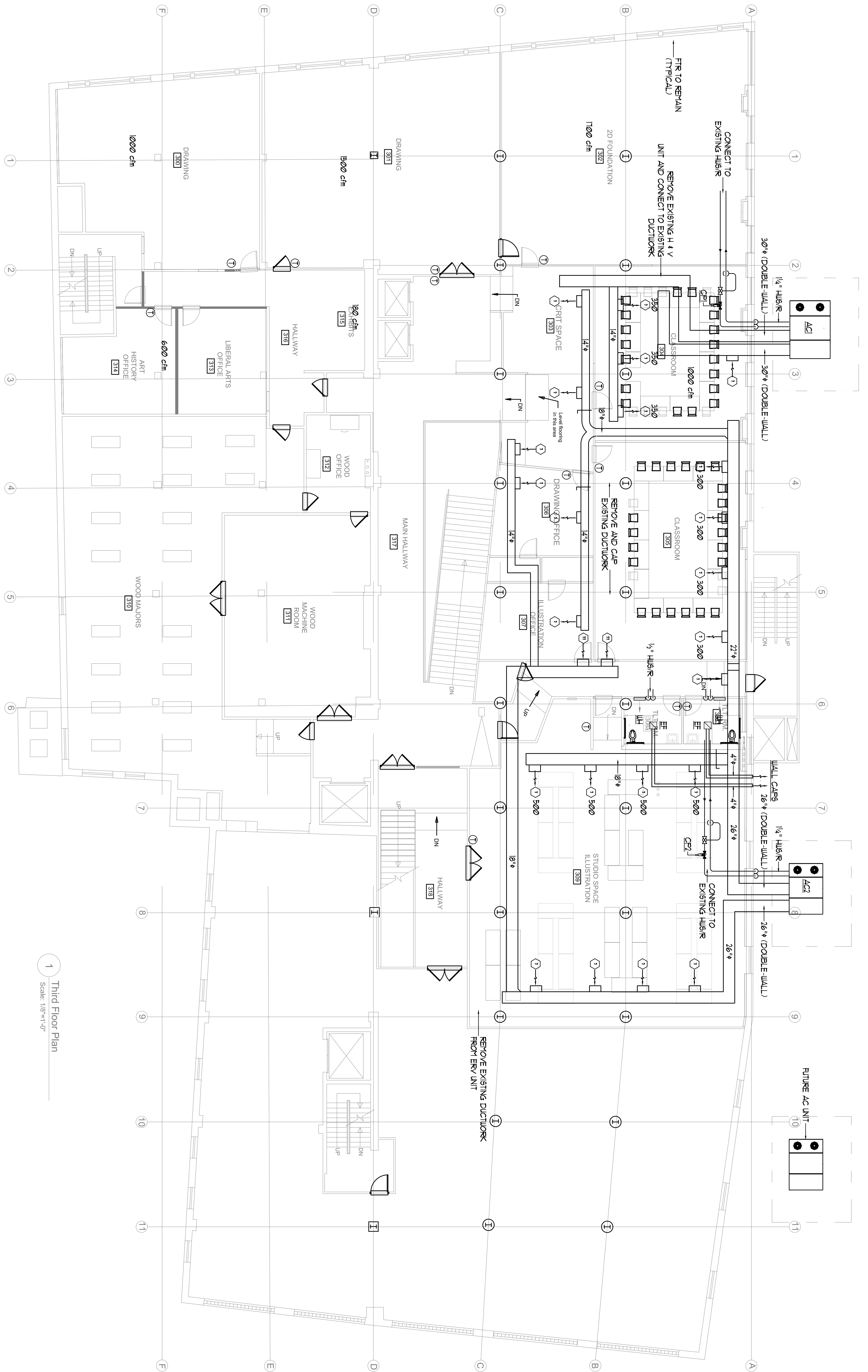
M.2

Second Floor Mechanical Plan
 Drawn by: SP Doel File Name: -
 Scale: 1/8"=1' RRA Project No. RRA2007.15.00
 Date: 3.31.08 Revised:

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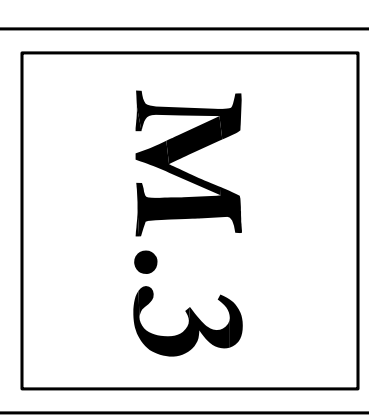
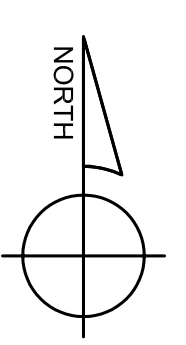


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1 Third Floor Plan
Scale: 1/8"=1'-0"

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Third Floor HVAC Plan
 Drawn by: SP Doel File Name: -
 Scale: 1/8"=1' RRA Project No. RRA2007.15.00
 Date: 3.31.08 Revised:

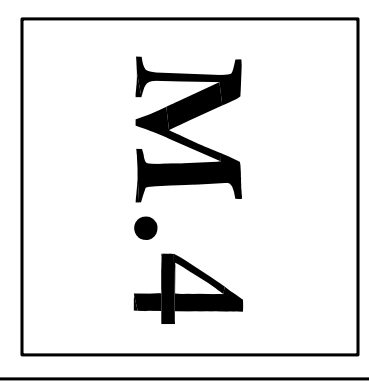
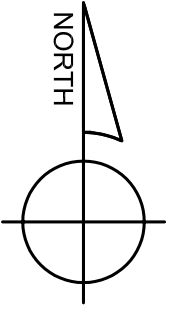
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Existing Conditions / Remove General Notes
 R - Remove existing diffuser and cap ductwork

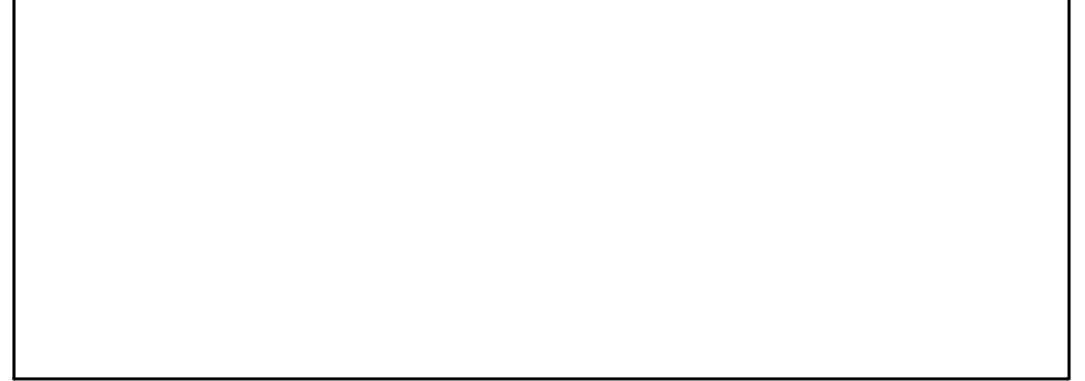


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First Floor Mechanical Demolition Plan
 Drawn by: SP Doel File Name: -
 Scale: 1/8"=1' RRA Project No. RRA2007.15.00
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PUMP PERFORMANCE SCHEDULE				ELECTRICAL REQUIREMENTS				BASIS OF DESIGN TACO					
TAG	EQUIPMENT (FED)	WELL SIZE	RPM	HP	WHP	AMP	VOLTAZ	SERVICE	REQUIREMENT	MODEL	Q	H	EFF
CF1	8" Ø	II	1750	.84	-	-	100V	421	-	608	-	-	-
CF2	8" Ø	II	1750	.84	-	-	100V	421	-	608	-	-	-

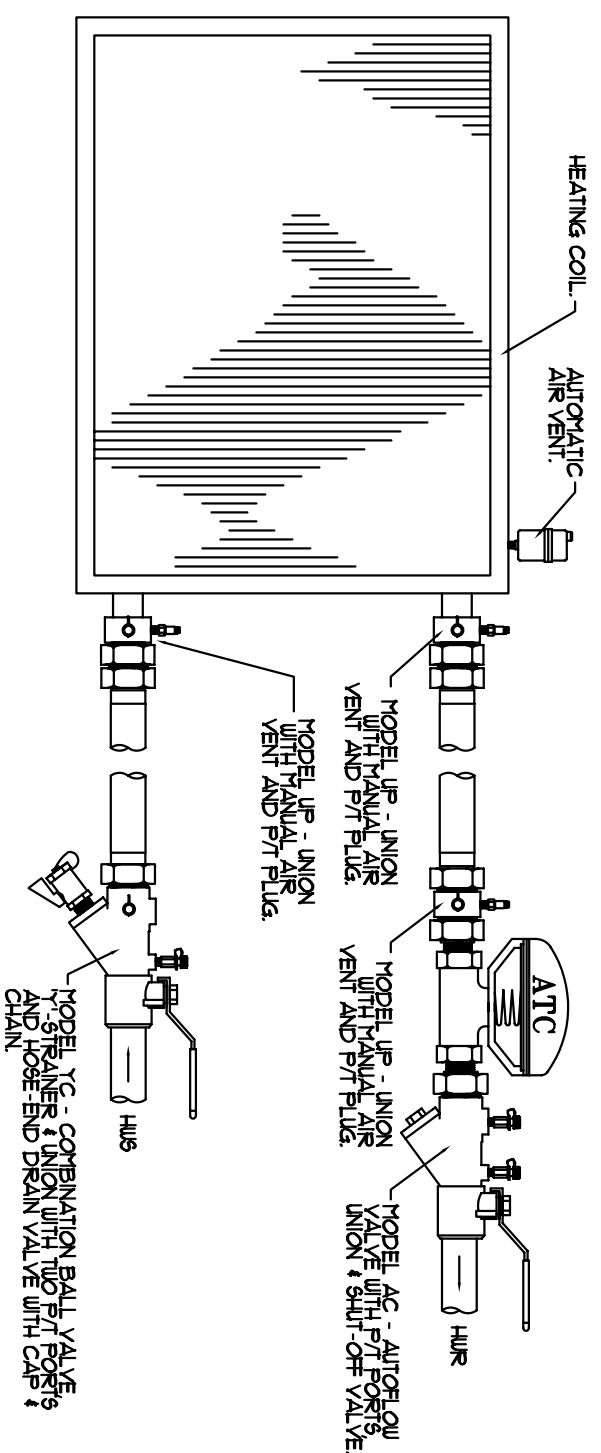
LINEAR BAR GRILLE PERFORMANCE SCHEDULE						
TAG	SIZE (INCHES) (CH)	AREA (SQ FT)	THROU (FEET)	NC	FRAME STYLE	PATTERN
①	36x4	3600	0.03	20	F FLANGE	SCREEN 6
②	36x6	10800	0.04	25	F FLANGE	SCREEN 17'
③	48x6	1200	0.04	25	F FLANGE	SCREEN 17'

AIR DEVICE PERFORMANCE SCHEDULE									
TAG	PANEL SIZE (IN)	NECK SIZE (IN)	AREA (SQ IN)	SPRINGS (IN)	THROU (IN)	NC	BASE OF DESIGN (FT)	VELOCITY (FPM)	PRICE
①	24x24	6x6	36	0.05	-	-	25	SEE DWG 6	50000
②	24x24	3x3	9	0.05	-	-	30	SEE DWG 6	50000
③	24x24	2x2	4	0.05	-	-	30	SEE DWG 6	50000
④	24x24	5x5	25	0.05	-	-	30	SEE DWG 6	50000
⑤	24x24	10x10	100	0.05	-	-	30	SEE DWG 6	50000
⑥	24x24	8" x 12"	96	0.05	-	-	30	SEE DWG 6	50000
⑦	24x24	8" x 12"	96	0.05	-	-	30	SEE DWG 6	50000
⑧	24x24	12x12	144	0.05	-	-	30	SEE DWG 6	50000
⑨	24x24	12x12	144	0.05	-	-	30	SEE DWG 6	50000
⑩	24x24	12x12	144	0.05	-	-	30	SEE DWG 6	50000

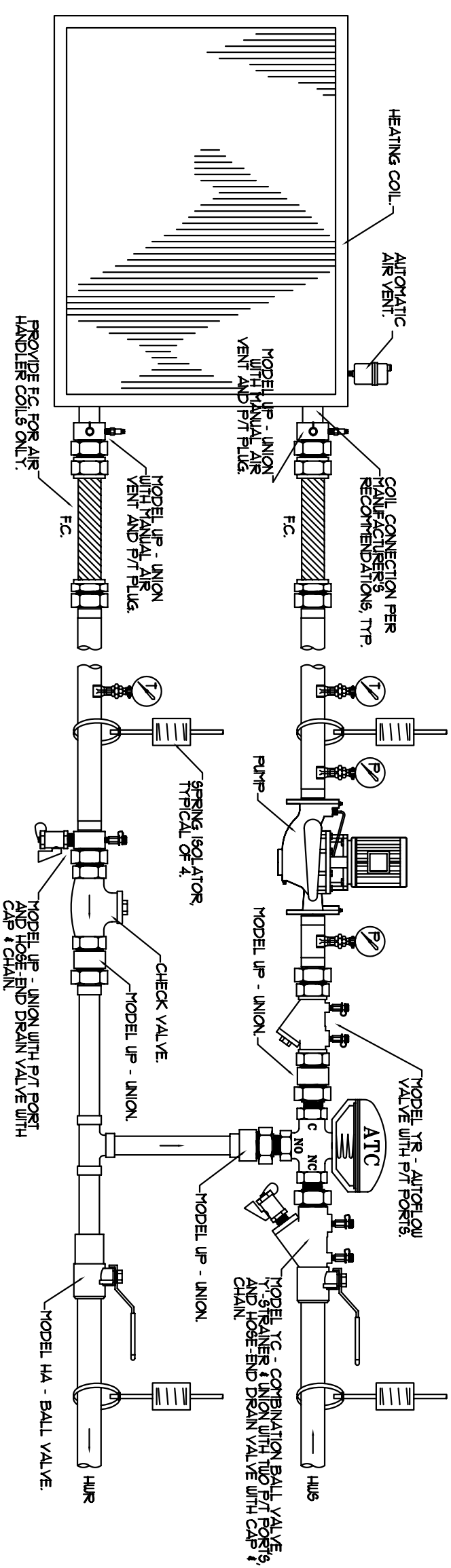
MECHANICAL & PLUMBING LEGEND

NOTE: USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
CA	COMPRESSED AIR PIPING (CA)	CAV	AUTOMATIC AIR VENT	EV	EXHAUST VENT TAG
CB	CONDENSATE DRAIN PIPING (CD)	AD	ACCESS DOOR	FC	FLEXIBLE CONNECTION
CC	COOLING TOWER RETURN PIPING (CTR)	AF	ACCESS FLOOR	FCO	FLOOR CLEANOUT
CD	CONDENSATE DRAIN PIPING (CD)	AFR	ACCESS ROOF	FD	FLOOR DRAIN TAG
CE	CHILLED WATER RETURN PIPING (CWR)	ADJ	ADJUSTABLE DISPLACEMENT FOR	FLA	FULL LOAD APPS
CF	CHILLED WATER SUPPLY PIPING (CWS)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLB	FULL LOAD BHP
CG	CHILLED WATER RETURN PIPING (CWR)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLC	FULL LOAD CAP
CH	CHILLED WATER SUPPLY PIPING (CWS)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLD	FULL LOAD DRAIN
CI	CHILLED WATER RETURN PIPING (CWR)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLF	FULL LOAD FLOOR
CJ	CHILLED WATER SUPPLY PIPING (CWS)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLG	FULL LOAD GALLON
CK	CHILLED WATER RETURN PIPING (CWR)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLH	FULL LOAD HEATER
CL	CHILLED WATER SUPPLY PIPING (CWS)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLI	FULL LOAD INSULATION
CM	CHILLED WATER RETURN PIPING (CWR)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLJ	FULL LOAD JUNCTION
CN	CHILLED WATER SUPPLY PIPING (CWS)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLK	FULL LOAD KITCHEN
CO	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLL	FULL LOAD LAUNDRY
CP	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLM	FULL LOAD MECHANICAL
CQ	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLN	FULL LOAD NESTING
CR	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLP	FULL LOAD PUMP
CS	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLQ	FULL LOAD QUANTITY
CT	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLR	FULL LOAD REFRIGERATION
CU	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLS	FULL LOAD SERVICE
CV	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLT	FULL LOAD TEST
CW	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLU	FULL LOAD UTILITY
CX	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLV	FULL LOAD VENT
CY	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLW	FULL LOAD WATER
CZ	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLX	FULL LOAD X-RAY
DA	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLY	FULL LOAD YARD
DB	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLZ	FULL LOAD ZONE
DC	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLA	FULL LOAD AREA
DD	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLB	FULL LOAD BENCH
DE	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLC	FULL LOAD CABINETS
DF	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLD	FULL LOAD DRAIN
DG	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLF	FULL LOAD FLOOR
DH	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLG	FULL LOAD GALLON
DI	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLH	FULL LOAD HEATER
DJ	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLI	FULL LOAD INSULATION
DK	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLJ	FULL LOAD JUNCTION
DL	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLK	FULL LOAD KITCHEN
DM	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLL	FULL LOAD LAUNDRY
DN	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLM	FULL LOAD MECHANICAL
DO	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLN	FULL LOAD NESTING
DP	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLP	FULL LOAD PUMP
DQ	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLQ	FULL LOAD QUANTITY
DR	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLR	FULL LOAD REFRIGERATION
DS	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLS	FULL LOAD SERVICE
DT	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLT	FULL LOAD TEST
DU	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLU	FULL LOAD UTILITY
DV	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLV	FULL LOAD VENT
DW	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLW	FULL LOAD WATER
DX	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLX	FULL LOAD X-RAY
DY	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLY	FULL LOAD YARD
DZ	CONDENSATE DRAIN PIPING (CD)	ADP	ADJUSTABLE DISPLACEMENT FOR	FLZ	FULL LOAD ZONE



AUTOFLOW VALVE PIPING SCHEMATIC w/ 2-WAY VALVE
 NIS
 NOTE: HOSE NUMBERS BASED ON FLOW DESIGN NC FOR PIPE SIZES 7" AND SMALLER.
 NOTE: DETAIL APPLIES TO AC UNITS ONLY, TYPICAL OF 2".
 NOTE: WELLS OTHERWISE INDICATED PIPE SIZES SHALL BE AS FOLLOWS - VAN BOXES (N-1)
 WALL HEATERS (N-1)



AUTOFLOW VALVE PIPING SCHEMATIC w/ PUMPED COIL & 3-WAY VALVE
 NIS
 NOTE: HOSE NUMBERS BASED ON FLOW DESIGN NC FOR PIPE SIZES 7" AND SMALLER.
 NOTE: DETAIL APPLIES TO AC UNITS ONLY, TYPICAL OF 2".

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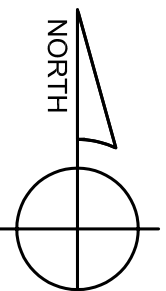
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Mechanical Schedules

Drawn by: SP Doel File Name: 2703
 Scale: As Noted RRA Project No. RRA2007.02.00
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M.5