

UNIT				SUPPLY FAN										AHU					DX COIL					HOT WATER COIL					NOTES
TAG	MANUFACTURER	MODEL	SERVICE	MIN. OUTDOOR AIR (CFM)	% OA	AIRFLOW (CFM)	RPM	E.S.P (IN. WG)	VOLTAGE	POWER (HP)	PHASE	SENSIBLE CAPACITY (BTU/HR)	TOTAL CAPACITY (BTU/HR)	EAT-DB (DEG. F)	EAT-WB (DEG. F)	LAT-DB (DEG. F)	LAT-WB (DEG. F)	SST	ROWS	TOTAL CAPACITY (BTU/HR)	EAT-DB (DEG. F)	LAT-DB (DEG. F)	EWT (DEG. F)	LWT (DEG. F)	FLOW RATE (GPM)	W.P.D (FT. WG)	ROWS		
AHU-1	TRANE	CSAA04	FIRST/SECOND FLOOR	1200	60	2000	1949	1.1	208	3	3	54860	80110	80	67	55	54	45	4	204,970	-10	60	180	150	20.5	3.46	2		
MUA-1	TRANE	CSAA04	HOOD MUA	2700	100	2700	2322	0.75	208	5	3																		

REGISTERS, GRILLES, AND DIFFUSERS										
TAG	MANUFACTURER	MODEL	TYPE	NECK SIZE (IN.)	MAX NC	SP (IN. WG)	DAMPER	FINISH	BORDER	NOTES
S1	TITUS	300RL	SUPPLY GRILLE	18x8	25	0.05	NONE	BAKED ENAMEL WHITE	TYPE 1	
S2	TITUS	S300RL	SPIRAL DIFFUSER	18x4	25	0.05	EXTRACTOR	BAKED ENAMEL WHITE	FOAM GASKET FLANGE	
R1	TITUS	350RL	RETURN GRILLE	18x10	20	0.05	INTEGRAL OBD	BAKED ENAMEL WHITE	TYPE 1	
E1	TITUS	350RL	EXHAUST GRILLE	6x8	20	0.05	INTEGRAL OBD	BAKED ENAMEL WHITE	TYPE 1	

BASEBOARD/ FIN TUBE RADIATION										
TAG	MANUFACTURER	MODEL	CAPACITY (BTU/FT)	PIPE SIZE (IN)	DIMENSIONS W x H (IN)	FPF	ROWS	ENCLOSURE DIMENSIONS Wx H (IN)	MOUNTING HEIGHT AFF (IN)	NOTES
A	STERLING	BARE FIN	830	3/4	4-1/4 x 3-5/8	32	1	BARE FIN	4	
B	STERLING	VB-AR-2PM	860	3/4	4-1/4 x 3-5/8	40	1	PEDESTAL	4	2 WIDE ENCLOSURE WITH ONE ACTIVE FIN AND ONE RETURN

AIR CURTAIN									
TAG	MANUFACTURER	MODEL	SERVICE	PIPE SIZE (IN.)	DESIGN FLOW (GPM)	HP	VOLTS/PHASE	EWT	NOTES
1	BERNER	1048	FIRST FLOOR	5/8	3	1/5	120/1	180	PROVIDE DOOR INTERLOCK
2	BERNER	1048	FIRST FLOOR	5/8	3	1/5	120/1	180	PROVIDE DOOR INTERLOCK

BOILERS											
TAG	MANUFACTURER	MODEL	FUEL GAS	INPUT (MBH)	OUTPUT (MBH)	COMBUSTION EFFICIENCY	ELECTRICAL			WEIGHT (LBS)	NOTES
							AMPS	VOLT	PHASE		
BOILER 1	LOCHINVAR	KBN801	NATURAL	600	752	94	15	120	1	405	

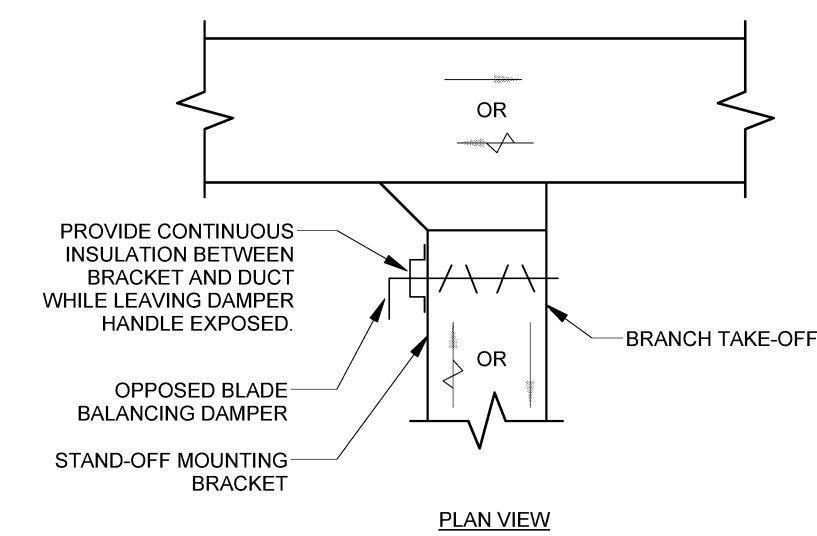
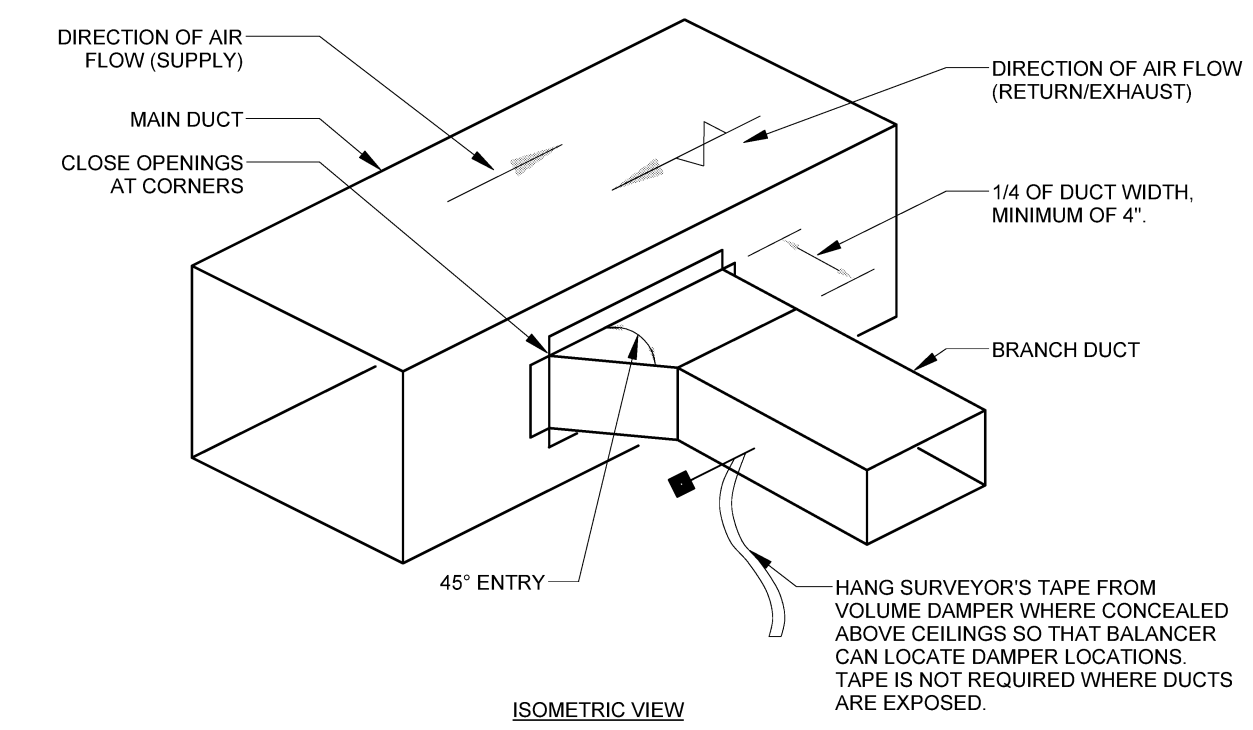
CONDENSING UNIT																							
TAG	MANUFACTURER	MODEL	SERVICE	CAPACITY (MBH)	SST (DEG.F)	AMBIENT (DEG.F)	REFRIGERANT	STAGES	COMPRESSOR QTY.	CIRCUITS QTY.	FAN QTY.	FAN POWER (EACH) (HP)	VOLTS PHASE	COMPRESSOR RLA (AMPS)	LRA (AMPS)	VOLTS PHASE	FAN RLA (AMPS)	LRA (AMPS)	MCA (AMPS)	MOPD (AMPS)	EER (MBH/KW)	WEIGHT (LBS)	NOTES
CU-1	TRANE	TTA090	AHU-1	90	45	95	410A	1	1	1	1	0.5	208 3	25	164	208 1	3.1	8.1	34.4	45	12.2	300	

FANS															
TAG	MANUFACTURER	MODEL	SERVICE	AIR FLOW (CFM)	E.S.P (IN.WG)	RPM	SONES	HP	PHASE	VOLT	MOTOR CONTROL	DRIVE	DAMPER	DISCHARGE	NOTES
EF-1	CAPTIVE AIRE	NCA24HFFA	HOOD 1	3100	1.5	915	17.5	2	3	208		BELT	NONE	UPBLAST	
EF-2	GREENHECK	CSP-B200	RESTROOMS	200	0.3	1100	3.1	173 W	1	120	DDC	DIRECT	BACKDRAFT	INLINE	

HEATING COIL												
TAG	MANUFACTURER	SERVICE	FINNED LENGTH (IN)	NOMINAL HEIGHT (IN)	ROWS	CAPACITY (MBH)	AIRFLOW CFM	EAT (DEG. F)	DRY BULB LAT (DEG.F)	MAX APD (IN. WG)	MAX WPD (FTHD)	NOTE
HC-1	TRANE	FIRST FLOOR	16	12	2	73.6	900	20	95	0.4	10	
HC-2	TRANE	SECOND FLOOR	18	12	2	88.4	1100	20	95	0.45	15	

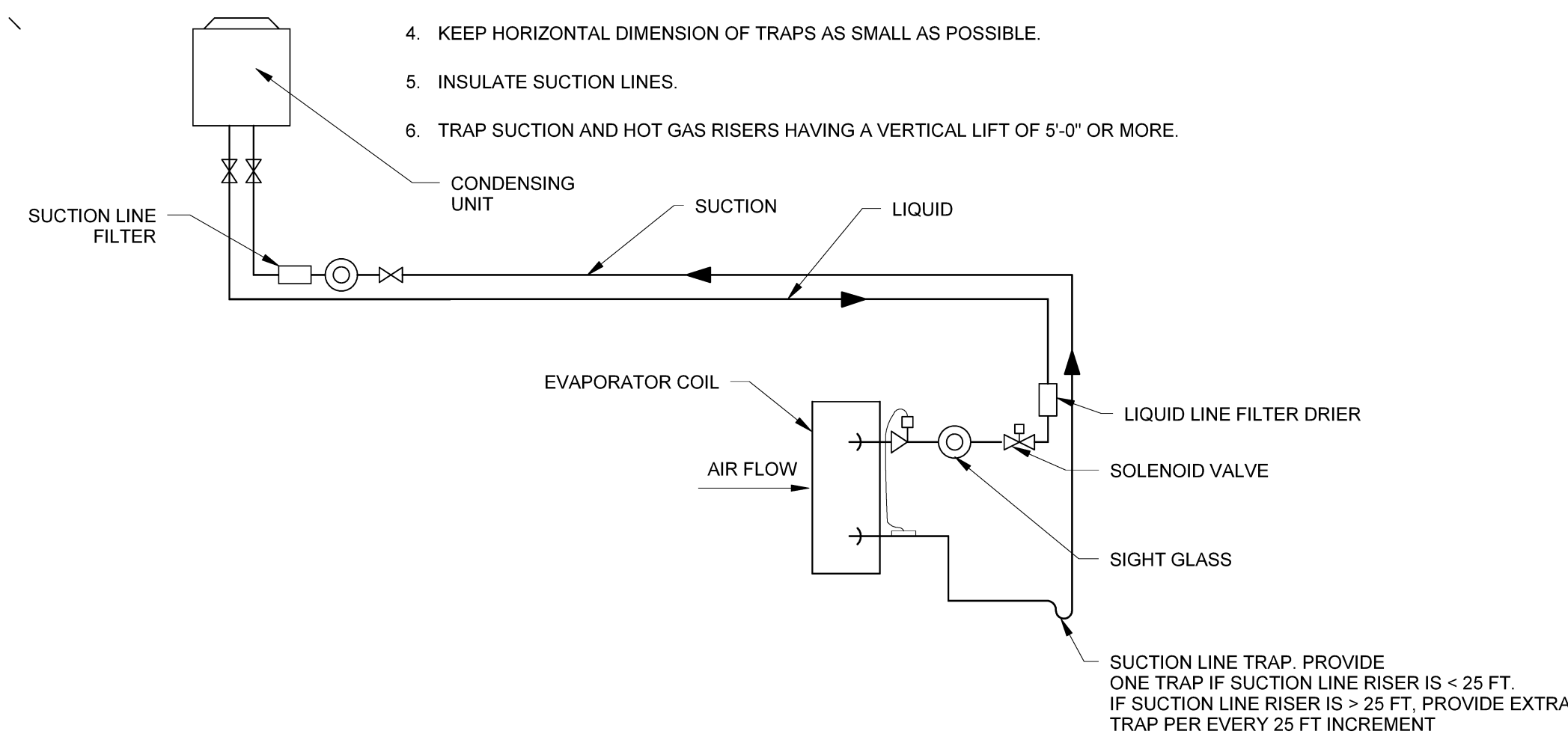
KITCHEN HOOD															
TAG	MANUFACTURER	MODEL	SERVICE	DIMENSIONS L x W x H (IN)	COLLAR (QTY. IN.)	EXHAUST AIR FLOW (CFM)	APD (IN.WG)	COLLAR (QTY IN)	SUPPLY AIR FLOW (CFM)	MOUNTING HEIGHT AFF (IN)	MATERIAL 100 %	LIGHTS (QTY.) TYPE	CLOSURE COLLAR HEIGHT (IN)	DAMPER AT HOOD COLLAR	NOTES
HOOD1	CAPTIVE-AIRE	5412 SND-2	KITCHEN	144x54x12	1 - 29x10	3100	0.90	3 - 20x12	2300	80 INCHES	430 SS	4 - CFL	NONE	UL LISTED FD	

PUMPS																	
TAG	MANUFACTURER	MODEL	SERVICE	FLOW (GPM)	HEAD (FT/WG)	EFFY (%)	IMPELLER (IN.)	MAX IMPELLER (IN.)	SUCTION FLANGE (IN.)	DISCHARGE FLANGE (IN.)	SPEED (RPM)	POWER (BHP)	ELECTRICAL HP	ELECTRICAL PHASE	ELECTRICAL VOLT	MOTOR CONTROL	NOTES
HWP-1	TACO	1935	HOT WATER	54	35	61	6	6.15	2	2	1760	.78	1	1	208	DDC	



- VOLUME DAMPERS:
1. PROVIDE STAND-OFF BRACKETS ON INSULATED DUCTS.
 2. INSULATE UNDER BRACKETS, SEAL VAPOR BARRIER TO BRACKETS.
 3. PROVIDE LOCKING, INDICATING QUADRANTS.

- NOTES:
1. PITCH LINES DOWN IN DIRECTION OF REFRIGERANT FLOW (1/2" IN 10'-0")
 2. MAXIMUM FILTER-DRIER PRESSURE DROPS: 2 PSI ON SUCTION LINE, 1 PSI ON LIQUID LINE.
 3. PROVIDE ISOLATION VALVES ON CONDENSING UNIT LINES.
 4. KEEP HORIZONTAL DIMENSION OF TRAPS AS SMALL AS POSSIBLE.
 5. INSULATE SUCTION LINES.
 6. TRAP SUCTION AND HOT GAS RISERS HAVING A VERTICAL LIFT OF 5'-0" OR MORE.



2 SPLIT AIR COND. SYSTEM REFRIG. PIPING SINGLE CIRCUIT
NO SCALE

1 SIDE BRANCH TAKE-OFF
NO SCALE

HARRIMAN

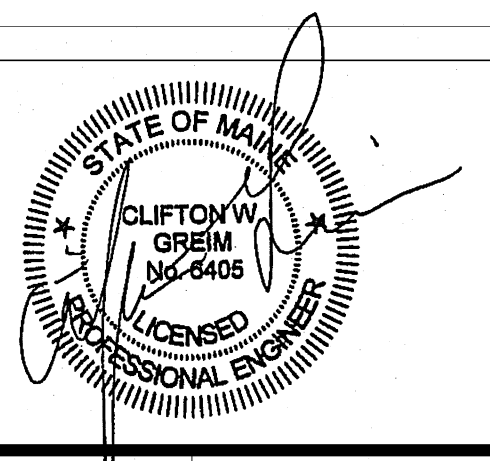
AUBURN PORTLAND MANCHESTER

GOULD RESTAURANT

PORTLAND, MAINE

Harriman Project No. Project Number
Key Plan Proj North

Issues and Revisions		
Mark	Date	Description
05-21-13	75%	REVIEW
05-31-13		ISSUED FOR CONSTRUCTION



Drawing Scales	
1/8" = 1'-0"	
PA / PE: CG	© 2013 Harriman Associates
Drawn By: JSC	

SCHEDULES

M40.1