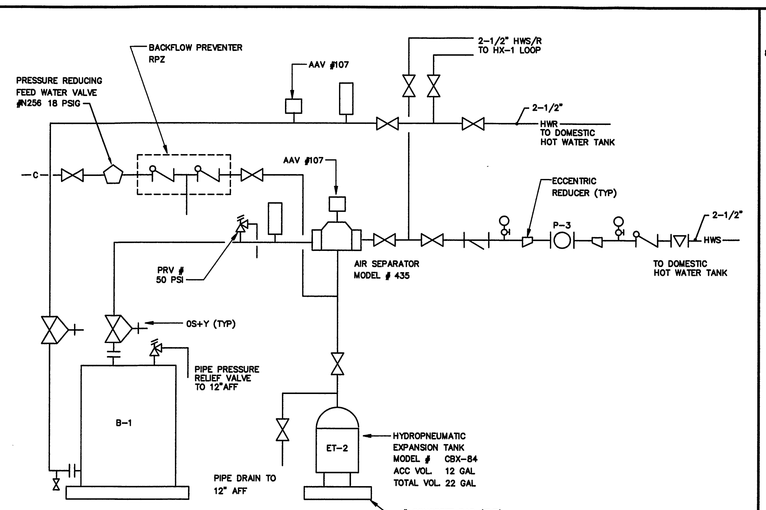
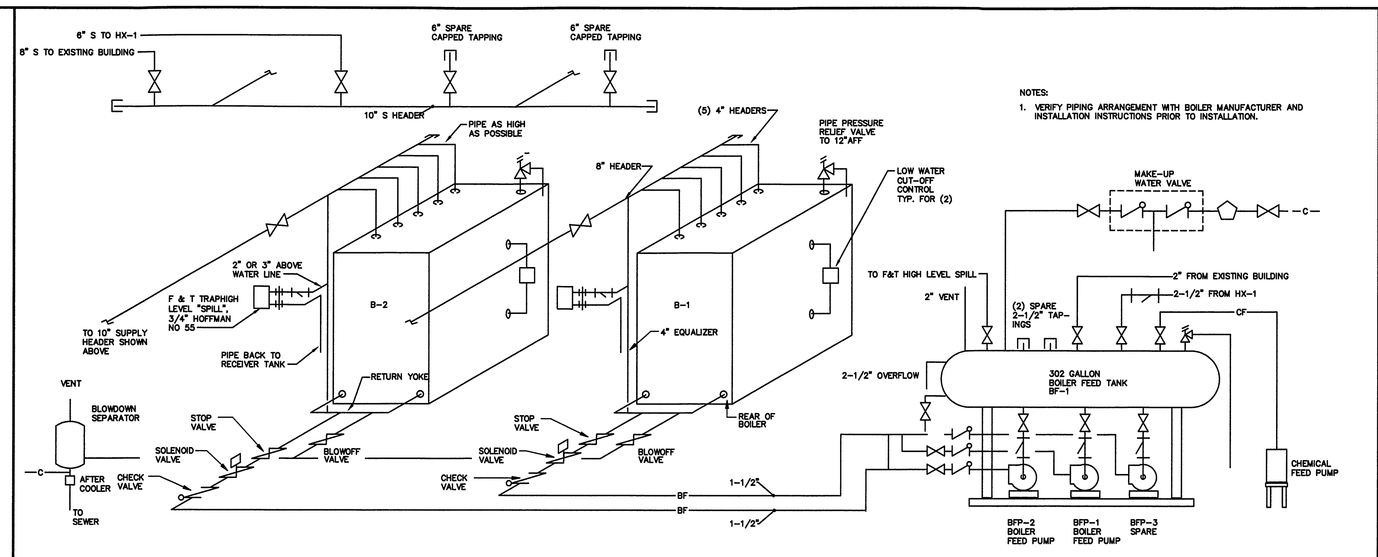
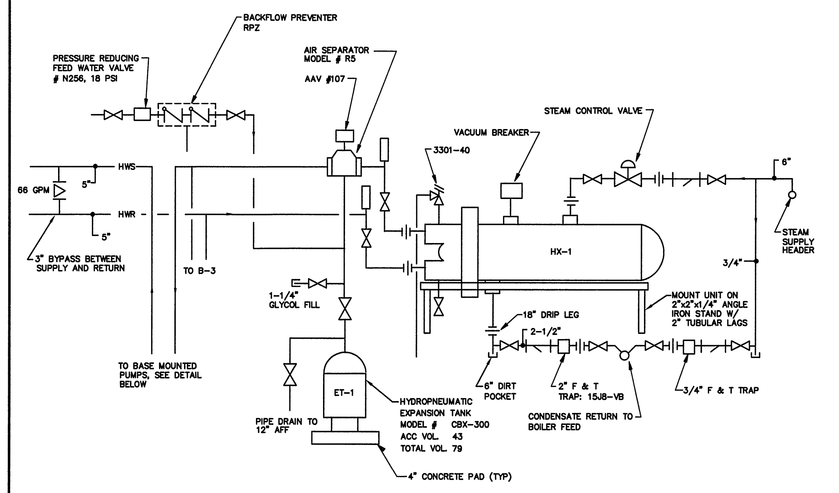


BOILER HEATING SYSTEM PIPING DIAGRAM: B-3 — NOT TO SCALE — REF: — E3

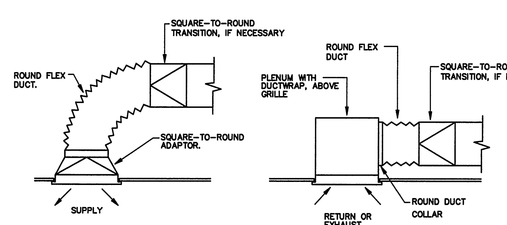


NOTES:
1. VERIFY PIPING ARRANGEMENT WITH BOILER MANUFACTURER AND INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.

BOILER SYSTEM PIPING DIAGRAM: B-1,2 — NOT TO SCALE — REF: — E2

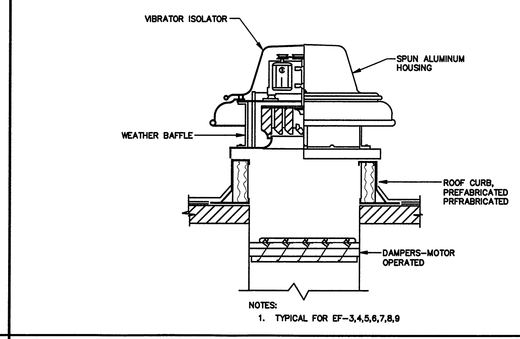


STEAM/HOT WATER CONVERTER PIPING DIAGRAM: HX-1 — NOT TO SCALE — REF: — E1



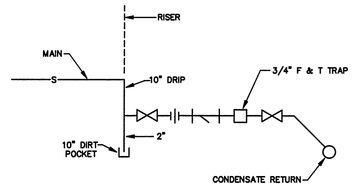
NOTES:
1. FLEX DUCT LENGTH 3 TO 5 FEET.
2. TYPICAL FOR SUPPLY, RETURN AND EXHAUST WHERE FLEX DUCT INDICATED.
3. PROVIDE SQUARE-TO-ROUND ADAPTORS AS SHOWN
4. SEE FLOOR PLAN FOR SIZES.

GRILLE & DIFFUSER DETAIL — NOT TO SCALE — REF: — D5

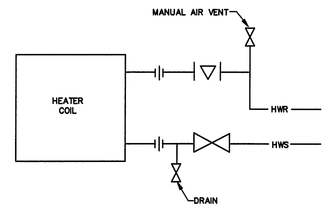


NOTES:
1. TYPICAL FOR EF-3,4,5,6,7,8,9

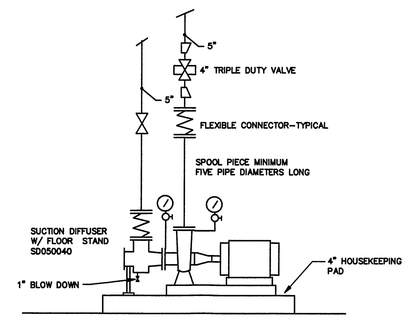
CENTRIFUGAL ROOF VENTILATOR (CRV) DETAIL — NOT TO SCALE — REF: — D4



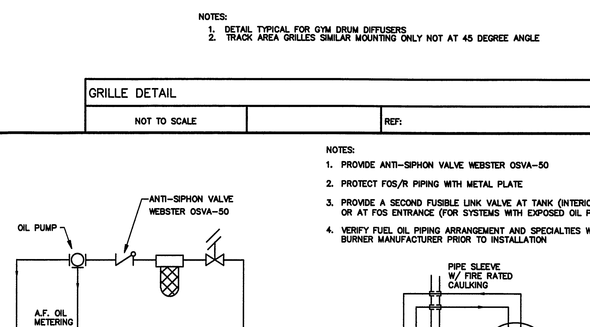
END OF MAIN OR RISER DRIP DETAIL — NOT TO SCALE — REF: — D3



UV AND CUH COIL DETAIL — NOT TO SCALE — REF: — D2

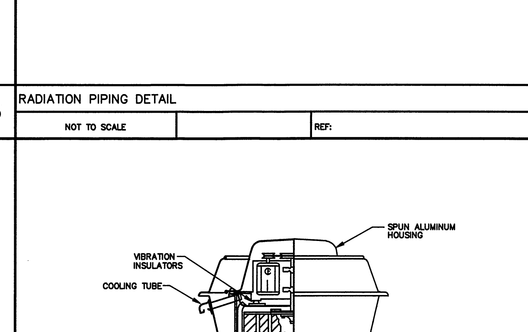


BASE MOUNTED PUMP DETAIL — NOT TO SCALE — REF: — D1



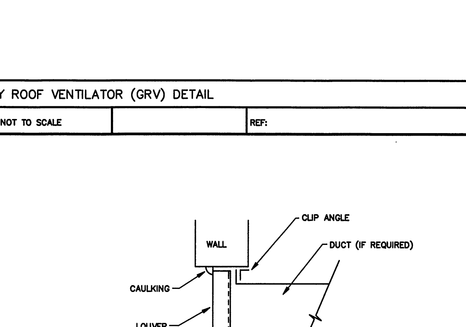
NOTES:
1. DETAIL TYPICAL FOR GYM DRUM DIFFUSERS
2. TRACK AREA GRILLES SIMILAR MOUNTING ONLY NOT AT 45 DEGREE ANGLE

GRILLE DETAIL — NOT TO SCALE — REF: — C5

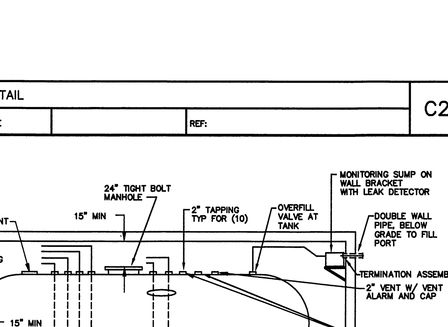


NOTES:
1. PROVIDE ECCENTRIC REDUCERS, DIELECTRIC FITTINGS AND UNIONS AT THE ELEMENT AS REQUIRED DUE TO PIPE MATERIAL AND SIZE DIFFERENCES

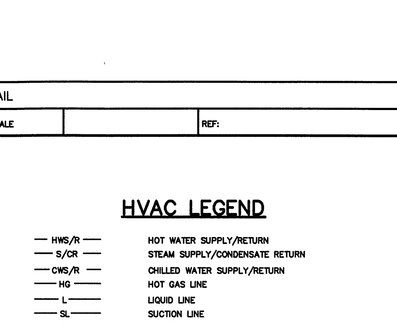
RADIATION PIPING DETAIL — NOT TO SCALE — REF: — C4



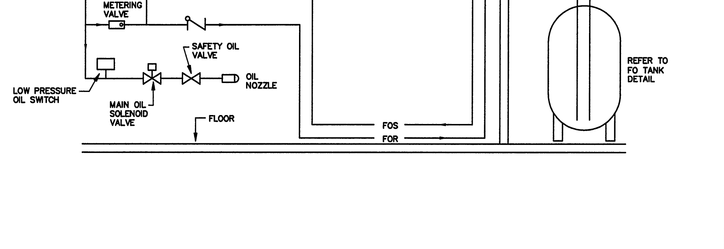
GRAVITY ROOF VENTILATOR (GRV) DETAIL — NOT TO SCALE — REF: — C3



FIRE DAMPER DETAIL — NOT TO SCALE — REF: — C2

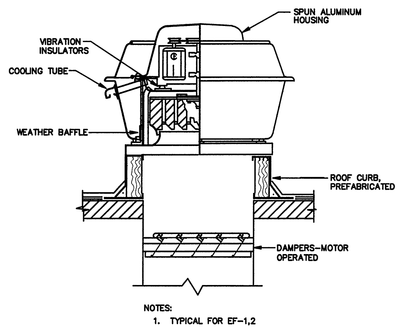


AHU COIL DETAIL — NOT TO SCALE — REF: — C1



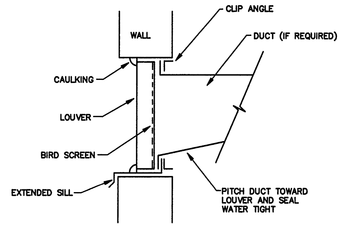
NOTES:
1. PROVIDE ANTI-SIPHON VALVE WEBSTER OSVA-50
2. PROTECT FOS/R PIPING WITH METAL PLATE
3. PROVIDE A SECOND FUSIBLE LINK VALVE AT TANK (INTERIOR TANK) OR AT FOS ENTRANCE (FOR SYSTEMS WITH EXPOSED OIL PIPING).
4. VERIFY FUEL OIL PIPING ARRANGEMENT AND SPECIALTIES WITH BURNER MANUFACTURER PRIOR TO INSTALLATION

NO. 2 OIL PIPING DETAIL - B-1,2 — NOT TO SCALE — REF: — B5

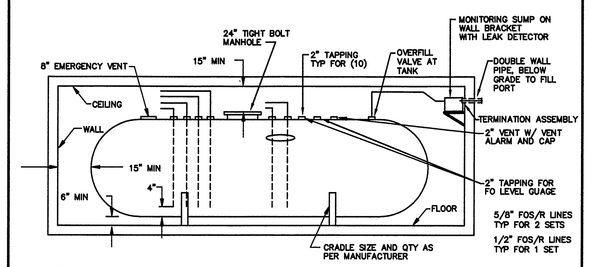


NOTES:
1. TYPICAL FOR EF-1,2

FUME EXHAUSTER DETAIL — NOT TO SCALE — REF: — B4



LOUVER DETAIL — NOT TO SCALE — REF: — B3



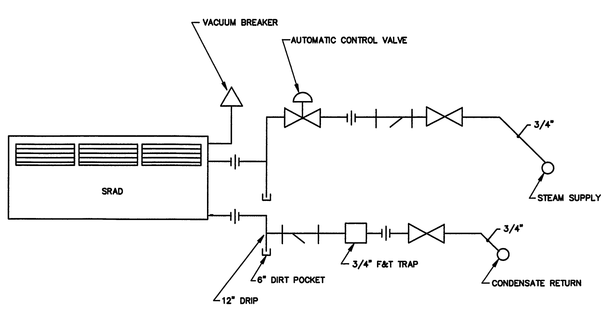
NOTES:
1. PROVIDE TANK W/ 10 2" TAPPINGS FOR:
   A. 3 SETS OF FOS/R PIPING
   B. 1 FILL, 1 VENT
   C. 2 FUEL GUAGES, ONE ELECTRONIC / ONE MANUAL
2. TANK CAPACITY = 8000 GALLONS
3. TANK DIMENSIONS = 8' DIAM x 21'-4"L

INDOOR FUEL OIL TANK — NOT TO SCALE — REF: — B2

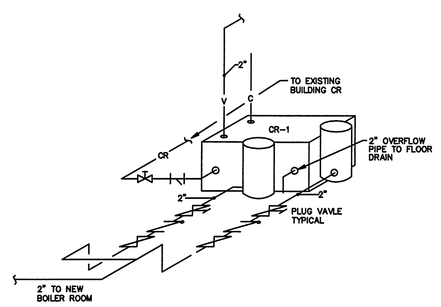
HVAC LEGEND

HWS/R	HOT WATER SUPPLY/RETURN
S/CR	STEAM SUPPLY/CONDENSATE RETURN
CWS/R	CHILLED WATER SUPPLY/RETURN
HG	HOT GAS LINE
L	LIQUID LINE
SL	SUCTION LINE
G	GAS LINE
	PIPE RISER
	PIPE DROP
	ECCENTRIC REDUCER
	PIPE ANCHOR
	UNION
	GATE VALVE
	CHECK VALVE
	IN - LINE PUMP
	STRAINER
T	THERMOMETER/THERMOWELL
P	PRESSURE GAUGE WITH SHUT-OFF COCK
	BALANCING AND SHUT-OFF VALVE
PR	PRESSURE RELIEF VALVE
	FUSIBLE LINK VALVE
FO	FUEL OIL FILTER
	FLEXIBLE CONNECTOR (FC)
AAV	AUTOMATIC AIR VENT
	SUPPLY DUCT
	EXHAUST OR RETURN DUCT
FD	FIRE DAMPER
	VOLUME DAMPER
	MOTOR OPERATED DAMPER (MOD)
	TURNING VANE (TV)
EX	EXISTING EQUIPMENT
	EXISTING EQUIPMENT TO BE REMOVED
	TIE INTO EXISTING SYSTEM
AFF	ABOVE FINISHED FLOOR
NTS	NOT TO SCALE
ACV	AUTOMATIC CONTROL VALVE
T	THERMOSTAT
H	HUMIDISTAT
S	WALL SWITCH
ST	TIMER
PNL	CONTROL PANEL
NIC	NOT IN CONTRACT
	BACKDRAFT DAMPER

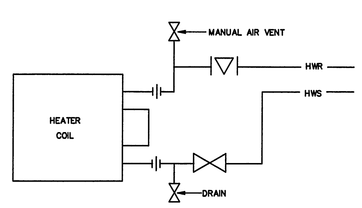
HVAC LEGEND — NO SCALE — REF: — A1



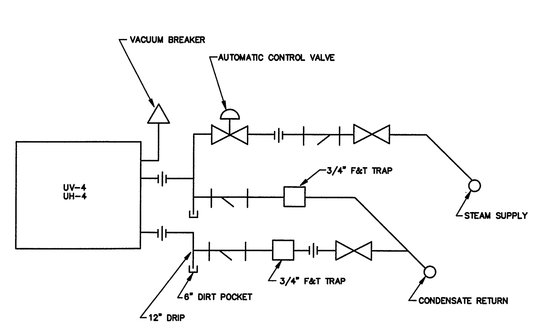
STEAM RADIATION DETAIL — NOT TO SCALE — REF: — A5



CONDENSATE RECEIVER DETAIL — NOT TO SCALE — REF: — A4



UH COIL DETAIL — NOT TO SCALE — REF: — A3



HORIZONTAL STEAM COIL DETAIL - UV-4, UH-4 — NOT TO SCALE — REF: — A2

Architects • Engineers
HARRIMAN ASSOCIATES
One Auburn Business Park
Auburn, Maine 04210
207.784.5100 tel
207.782.3017 fax
www.harriman.com
Building communities since 1970
© 2004

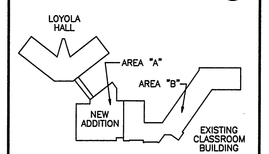
Project Title

CHEVERUS HIGH SCHOOL PHASE 3-ADDITIONS & RENOVATIONS

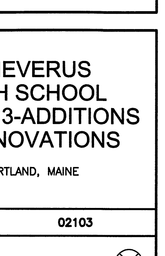
PORTLAND, MAINE

HA Project No. 02103

Key Plan



SEAL



Ames Hewett & Gifford
CONSULTING ENGINEERS DESIGNERS
161 MAIN STREET WINTHROP, MAINE
Tel 207-377-6969 Fax 207-377-7584
AHG Proj No: 04028

Mark	Date	Description
–	05-28-04	ISSUED FOR BID
–	05-17-04	OWNER REVIEW

Issue Dates

Drawing Status

Drawing Title

DETAILS

PA / PE: KWW — Drawn By: GRL,KWW

Drawing Number

M40.2

PLOT DATE: 05-28-04