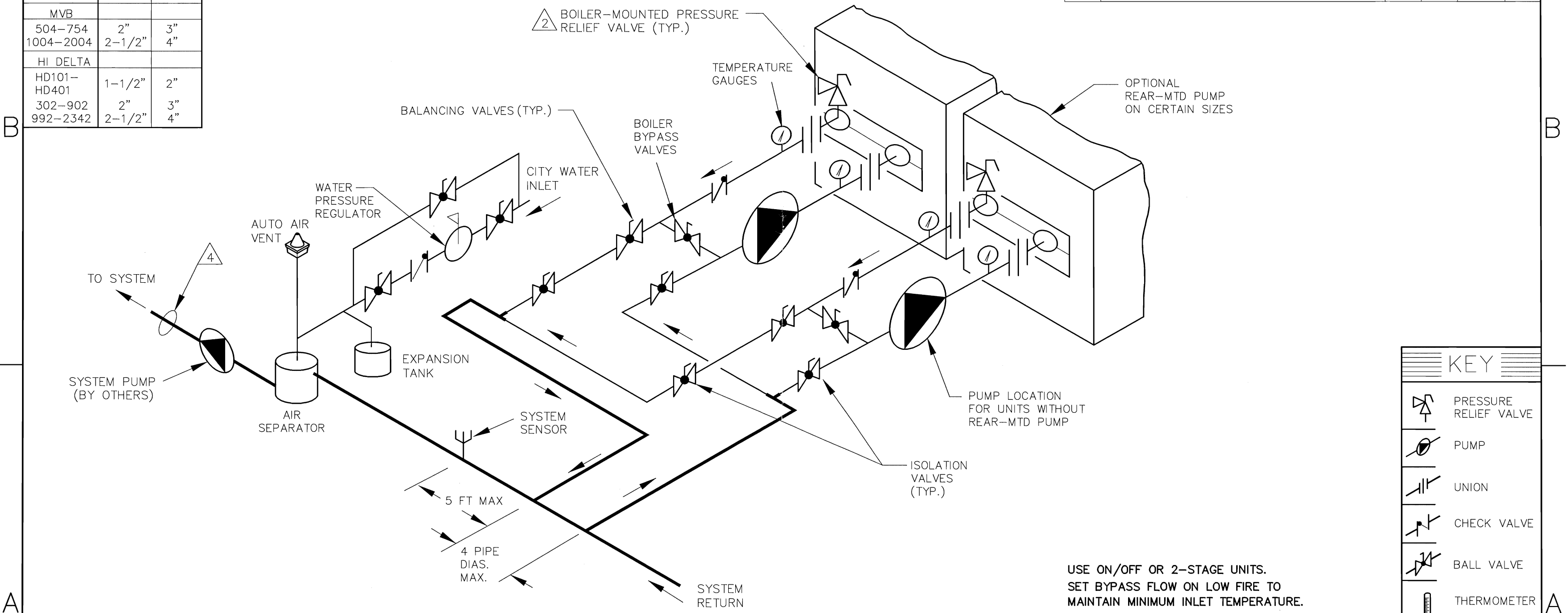


THIS PIPING DIAGRAM IS RAYPAK'S RECOMMENDATION AND IS NOT INTENDED TO REPLACE AN ENGINEERED PIPING SYSTEM DESIGNED BY A PROFESSIONAL ENGINEER.

8338					
REVISIONS					
REV	DESCRIPTION	E.O.	BY	DATE	CHECK
1	UPDATED FORMAT. ADDED RAYTHERM SIZES.		DRB	7-2-08	DRB
1	UPDATED TITLE, USAGE, SYMBOLS, NOTE 3. ADDED NOTE 5, 6.		KA	2-25-14	<i>[Signature]</i>

PIPE SIZES		
	UNIT	2 UNITS
RAYTHERM		
181-401	1-1/2"	2"
514-824	2"	3"
926-1826	2-1/2"	3"
2100-4001	3"	4"
MVB		
504-754	2"	3"
1004-2004	2-1/2"	4"
HI DELTA		
HD101- HD401	1-1/2"	2"
302-902	2"	3"
992-2342	2-1/2"	4"



KEY	
	PRESSURE RELIEF VALVE
	PUMP
	UNION
	CHECK VALVE
	BALL VALVE
	THERMOMETER

USE ON/OFF OR 2-STAGE UNITS.  
SET BYPASS FLOW ON LOW FIRE TO  
MAINTAIN MINIMUM INLET TEMPERATURE.

- NOTES:
1. PLUMB SWING CHECK VALVE IN GRAVITY-CLOSED POSITION.
  2. PIPE ALL RELIEF VALVES TO DRAIN, OR AS LOCAL CODES REQUIRE.
  3. SEE CHART "PIPE SIZES" FOR PIPE SIZES, CALCULATED AT MAXIMUM FLOW, NOT TO EXCEED 7.5 FT/SEC.
  4. PROVIDE FOR THERMAL EXPANSION OF HOT WATER IF A BACKFLOW PREVENTER, CHECK VALVE, WATER METER OR PRESSURE-REDUCING VALVE IS INSTALLED IN THE COLD WATER LINE.
  5. STANDARD PUMP SIZING BASED ON 75 EQUIVALENT FEET OF PIPING. IF DISTANCE IS GREATER, THE PUMP MUST BE SIZED TO ACCOMMODATE INCREASE IN PIPING-RELATED LOSSES.
  6. A TWO-FOOT MINIMUM CLEARANCE SHOULD BE USED FOR THE SPACING BETWEEN ADJACENT BOILERS FOR MAINTENANCE.

ACAD: 8338.DWG

BOILERS SHOWN REPRESENT VARIOUS MODELS. BECAUSE INDIVIDUAL MODELS WILL VARY IN DESIGN AND SIZING, SEE EACH SPECIFIC BOILER TYPE FOR DETAILS.

8338	UNLESS OTHERWISE SPECIFIED: ALL UNITS ARE IN INCHES FRACTIONS ±1/32 ANGLES ±1° X. = ±.12 X.X = ±.06 X.XX = ±.03 X.XXX = ±.010 DRAFT___ WALL___ RADII___ CONCENTRICITIES .020 DIA. SQUARENESS .015 IN./IN. BREAK EDGES .015 MAX. SURFACE FINISH PER ASME Y14.36M-1996	APPROVED <i>[Signature]</i>	DATE 4-8-14	<b>Raypak</b> OXNARD, CALIFORNIA	
		CHECKED D BALDWIN	DATE 1-10-02		E.O. SCALE SPR NONE
		DRAWN J RYAN	DATE 1-10-02	THIS DRAWING SUBMITTED UNDER CONFIDENTIAL RELATIONSHIP, AS IT EMBODIES PROPRIETARY INFORMATION, WITH ALL RIGHTS RESERVED BY RAYPAK, INC.	
		TITLE PIPING, HYDRONIC: 2 BOILERS, WSHP	SIZE B		
2	MAT'L.	SERIES/MODEL H	DWG. NO. 8338	REV 2	