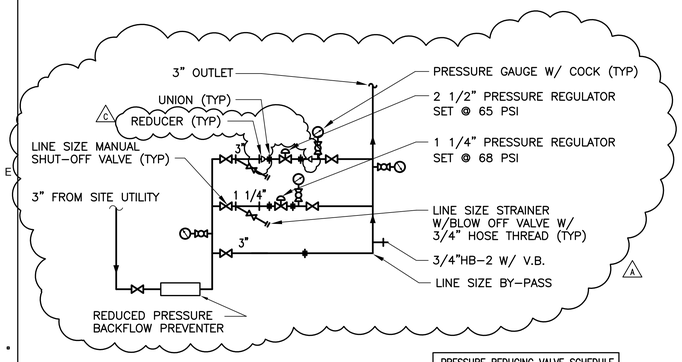


PRESSURE REDUCING VALVE SCHEDULE		
PRV SIZE	GPM	SET PRESSURE
2-1/2"	100	65 PSI
1 1/4"	30	68 PSI

1 PRESSURE REDUCING STATION

P701 REF. SCALE: NONE

(EBAA) FLEXIBLE EXPANSION JOINT (SIZE IN INCHES) (10)								
	ASSEMBLY EJ-1					ASSEMBLY EJ-2		
PIPE SIZE	ASSEMBLY NO.	O.D.	I.D.	L2	L1±1%	ASSEMBLY NO.	O.D.	L3±1%
3	403F15	9.2	3.2	5.7	46.2	–	–	–
4	404F15	13.0	4.1	6.6	71.5	204F3	9.0	64.1
6	406F15	15.0	6.2	6.7	69.5	206F3	11.0	62.4
8	408F15	17.3	8.3	7.2	80.5	206F3	13.5	72.0

PIPE SHEDULE	
SYSTEM	DIAMETER IN INCHES
DOMESTIC WATER	4
SANITARY WASTE AND VENT	4,6
STORM DRAIN	4,6,8

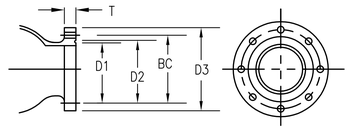
CUSTOM FABRICATED FLEXIBLE EXPANSION JOINT ASSEMBY NOTES:

1. 20° DEFLECTION PER BALL JOINT
2. ±16" LINEAR MOVEMENT PER ASSEMBLY.
3. 350 PSI RATED WORKING PRESSURE. LINE SIZE FLANGED SPOOL PIECE.
4. ALL METAL COMPONENTS MADE OF DUCTILE IRON CONFORMING TO THE MATERIAL REQUIREMENTS OF ANSI/AWWA C153/A21.53 FOR ALL SERVICES I.E. DCW, SS, SD, AND FW. EXTEND DUCTILE IRON PIPING SHALL EXTEND ON BOTH SIDE UP TO FIRST FITTING (INCLUDING FITTING) FOR ALL SERVICES.
5. ALL PRESSURE CONTAINING PARTS AND ALL SEAL CONTACT SURFACES SHALL BE COATED WITH A MINIMUM OF 15 MILS OF FUSION BONDED EPOXY COMFORMING TO THE REQUIREMENTS OF AWWA C213.
6. ALL EXTERNAL SURFACES SHALL BE COATED WITH EPOXY COAL TAR.
7. ALL SEALING COMPONENTS SHALL CONFORM TO THE MATERIAL REQUIREMENTS OF ANSI/AWWA C111/A21.11
8. END CONNECTIONS SHALL CONFORM TO THE APPLICABLE DIMENSIONAL REQUIREMENTS OF ANSI/AWWA C111/A21.11
9. THE FLEXIBLE JOINT AASEMBLIES EJ-1 SHALL BE "FLEX-TEND" SERIES 400F12, FOR 3 TO 8 INCHES DIAMETER.
9A. THE FLEXIBLE JOINT AASEMBLIES EJ-2 SHALL BE "EX-TEND" SERIES 200F3, FOR 3 TO 8 INCHES DIAMETER.
10. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL, BEFORE ORDERING ANY MATERIAL AND STARTING CONSTRUCTION. THE SHOP DRAWINGS SHALL INDICATE THE NUMBER OF ASSEMBLIES TO ACCOMPLISH THE TOTAL LINEAR MOVEMENT OF 26 INCHES IN ALL DIRECTIONS ON AN HORIZONTAL PLANE.
11. FOR GRAVITY SYSTEMS (SS AND SD) THE ASSEMBLIES SHALL BE INSTALLED AT 2% MIN. SLOPE IN THE DIRECTION OF FLOW.
12. PIPE SUPPORT "TOLCO" FIG 318, FIG 319, W/ 6" SCHED 40 THREADED ADJUSTABLE STANCHION, WELDED TO 24" SQUARE X 1" THICK STEEL PLATE, STEEL PLATE TO HAVE BEVELED ENDS, BOTTOM OFF STEEL PLATE TO BE TEFLON COATED.
13. PROVIDE 2-1/2" BY 4" REDUCER FOR THE DOMESTIC WATER LINE. COMPLETE ASSEMBLY FOR THE DOMESTIC WATER LINE SHALL BE OF 4" SIZE.

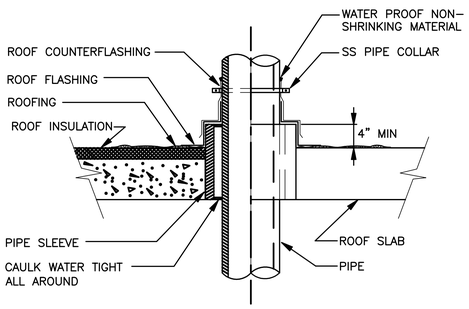
NOTES:

1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE P-101
2. FOR COMPLETE PIPE SIZES AND ACCESSORIES SEE PLUMBING DIAGRAMS

FLANGE DIMENSIONS (SIZE IN INCHES)						
PIPE SIZE	D1	D2	D3	T	BC	X
3	4.0	4.7	7.5	0.9	6.0	4-3/4ø
4	4.6	5.8	9.0	0.9	7.5	8-3/4ø
6	6.7	7.9	11.0	1.0	9.5	8-3/4ø
8	8.8	10.1	13.5	1.1	11.8	8-7/8ø

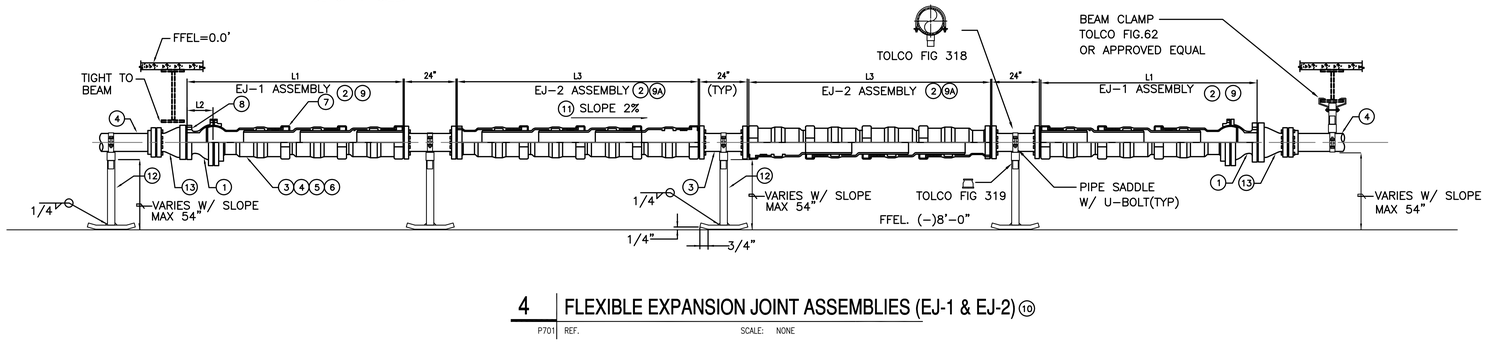


FLANGED ENDS



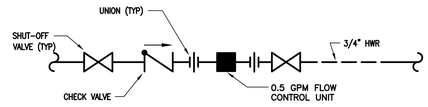
2 PIPE UP THRU ROOF DETAIL

P701 REF. P-204 SCALE: NONE



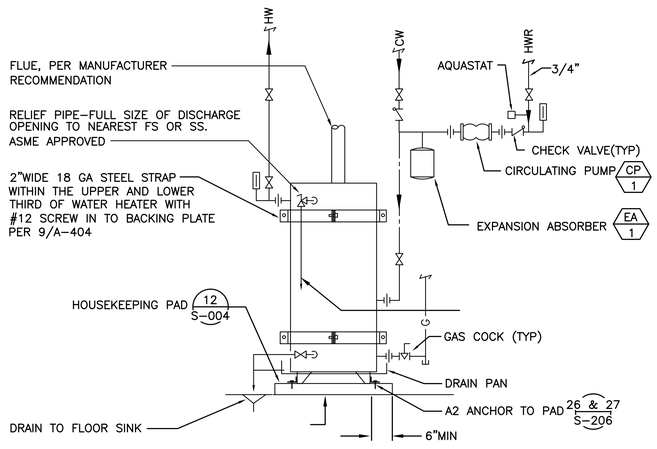
4 FLEXIBLE EXPANSION JOINT ASSEMBLIES (EJ-1 & EJ-2) (10)

P701 REF. SCALE: NONE



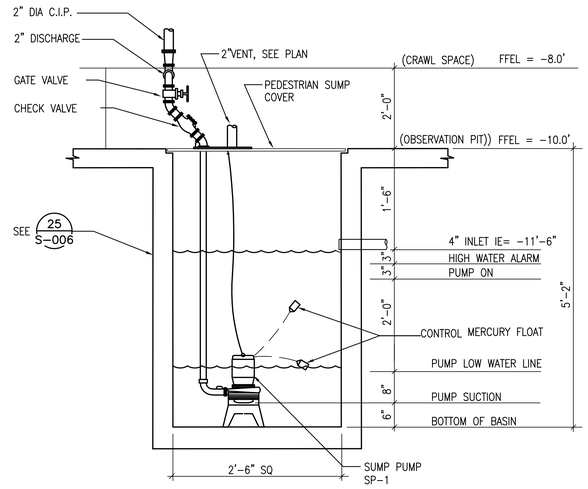
5 HW FLOW CONTROL VALVE DETAIL

P701 REF. SCALE: NONE



3 GAS WATER HEATER PIPING DIAGRAM

P701 REF. SCALE: NONE

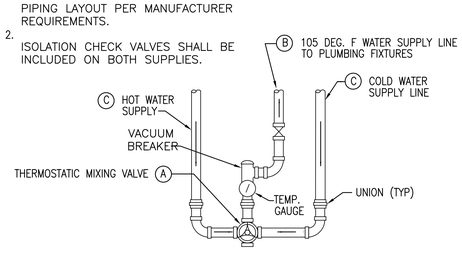


6 SUMP PUMP DETAIL

P-701 SCALE: NONE

NOTES:

1. INSTALLATION OF MIXING VALVE & PIPING LAYOUT PER MANUFACTURER REQUIREMENTS.
2. ISOLATION CHECK VALVES SHALL BE INCLUDED ON BOTH SUPPLIES.

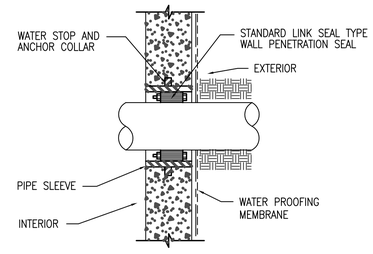


THERMOSTATIC MIXING VALVE SCHEDULE					
(A)	(B)	(C)	LOCATION	MANUFACTURER/ MODEL NO.	REMARKS
TMV 1	✳	✳	ABOVE CEILING	SYMMONS	THERMOSTATIC MIXING VALVE

✳ SEE PLUMBING DIAGRAM P-602 FOR SIZES.

7 THERMOSTATIC MIXING VALVE

P-701 REF. GENERAL SCALE: NONE



8 MEMBRANE WATERPROOF WALL PENETRATION

P-701 REF. GENERAL SCALE: NONE

PROJECT

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CONSULTANT

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STATUS

JULY 30, 2008

ISSUE

MARK	DATE	DESCRIPTION
C	10/27/2008	BID PERIOD ADDENDUM #5
A	09/26/2008	BID PERIOD ADDENDUM

PROJECT NO: 60004333.4000

DRAWN BY:

CHECKED BY:

STAMP

REGISTERED PROFESSIONAL ENGINEER — JERRY NIKOLAI ROZOVSKY — No. C 24473 — Exp. 12-31-09 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MAHENDRABHAI J. PATEL — NO. 23138 — Exp. 9.30.09 — MECHANICAL — STATE OF CALIFORNIA

SHEET TITLE

PLUMBING DETAILS

P-701

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