

COMBINATION SEWAGE AIR & VACUUM RELIEF VALVE - STANDARD DRAWING NO. 4100 A & B

CARRIER PIPE	STEEL CASI	MAX SPAN		
·	NOMINAL	MIN. WALL	BETWEEN	
NOMINAL DIAMETER	MIN. DIAMETER	THICKNESS	SPACERS *	
30"	42"	0.375	4' TO 8'	

\* SEE NOTE 2

## CASING SPACER NOTES:

- 1. THE CASING SPACERS SHALL BE OF A PROJECTION TYPE THAT HAS A MINIMUM NUMBER OF PROJECTIONS AROUND THE CIRCUMFERENCE TOTALING THE NUMBER OF DIAMETER INCHES.
- 2. CASING SPACERS SHALL HAVE A MAXIMUM SPACING SPAN AS SHOWN IN THE TABLE ABOVE. THE SPAN BETWEEN SPACERS SHOULD RESULT IN CONSERVATIVE LONG TERM SAFETY FACTOR PROVIDED TOTAL LOAD PER SPACER DOES NOT EXCEED THE MAXIMUM LOAD FOR PIPE FULL OF LIQUID PER SPACER LISTED IN THE LITERATURE PER CLASS SPACER USED.
- 3. SPACERS SHALL HAVE A MINIMUM HEIGHT THAT CLEARS THE PIPE BELL OR AS OTHERWISE INDICATED ON PLANS.
- 4. CASING SPACERS SHALL USE DOUBLE BACKED TAPE PROVIDED WITH THE SPACERS, TO FASTEN TIGHTLY ONTO THE CARRIER PIPE, SO THAT THE SPACERS DO NOT MOVE DURING INSTALLATION.
- 5. SPACERS SHALL BE RACI HIGH DENSITY POLYETHYLENE OR CITY APPROVED EQUAL.
- 6. ALL CARRIER PIPE INSTALLED BY BORING SHALL BE SUPPORTED BY QUARTER POINT CRADLE OF 2000 PSI CONCRETE ACROSS THE BORING PIT AND TO THE FIRST JOINT IN THE DITCH SECTION. ALL VOIDS WILL BE GROUTED WITH A 1:7 MINIMUM PROPORTIONED MIX WITH FIVE PERCENT (5%) TO FORTY PERCENT (40%) AIR ENTRAINMENT. AND WILL BE CONSIDERED A PART OF THE UNIT PRICE OF THE BORING OPERATION.

RECORD DRAWING This drawing is a compilation of the original sealed engineering drawing and modifications by addenda, change orders and information furnished by the contractor. Information shown that was provided by the contractor and others not associated with the design engineer cannot be verified for accuracy or completeness. Original sealed drawing is on file at the office of AECOM USA Group, Inc., TBPE REG. NO. F-3082

> ORIGINAL DRAWING SEALED & SIGNED BY T.H. Gaertner, P.E. TX NO. 37124

THG 7/29/08 REVISED DETAILS BY DATE REVISION



## **30" FORCE MAIN** MISCELLANEOUS DETAILS

PHASE 4

	TC	B AECOM WWW.TCB.AECOM.COM 17300 DALLAS PARKWAY, SUITE 1010 DALLAS, TEXAS 75248						
Unit	PW-DAL-FW	Horz: Scale: Vert:	1:40 1:10	Date	11/11	/200	9	
Des i gned	JLT/SDB	Checked	NRB	Project No.	600	)2378	4	
Drawn	ТСВ	Approved	NRB	Sheet	50	of	146	