STANDARD THRUST BLOCKS

THRUST BLOCK BEARING AREA (X) x (Y)								
PIPE SIZE	CONDITION NUMBER & PIPE WORKING PRESSURE							
	1	2	3	4	*5	6 (B)	7	8
	200	200	200	200	200	200	200	200
2"	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4"	2.5	3.5	1.9	1.0	1.8	1.8	3.5	2.5
6"	5.7	8.0	4.4	2.2	4.0	4.0	8.0	5.7
8"	10.1	14.2	7.7	3.9	7.1	7.1	14.2	10.1
10"	15.7	22.2	12.1	6.1	11.1	11.1	22.2	15.7
12"	22.6	31.9	17.4	8.8	16.0	16.0	31.9	22.6
16"	31.6	44.6	24.4	12.3	22.4	22.4	44.6	31.6

* NOTE: BEARING AREAS ARE IN SQUARE FEET.
AREA APPLIES TO EACH INDIVIDUAL BLOCK (2 REQ'D).

NOTES

1. ALL THRUST BLOCKS SHALL BE POURED WITH BEARING SURFACES AGAINST UNDISTURBED EARTH OR AN APPROVED COMPACTED FILL.
2. CONCRETE SHALL BE 2500 psi OR HIGHER.
3. ALL THRUST BLOCK SIDES SHALL BE FORMED.
4. ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 1000 psf.
5. THE RATIO OF "X" TO "Y" (THRUST BLOCK AREA) SHALL BE NO GREATER THAN 3:1.
6. MINIMUM CURE TIME FOR THRUST BLOCKS IS 3 DAYS PRIOR TO PRESSURIZING SYSTEM.
7. THRUST BLOCKS SHALL NOT INTERFERE WITH NUTS & BOLTS OF FITTINGS.
8. SEE PIPE CONDITIONS ON S-421.
9. INSTALL MECHANICAL JOINT RESTRAINT ON ALL JOINTS OF FITTINGS.
10. APPROVED MECHANICAL RESTRAINED JOINTS MAY BE USED AS ALTERNATE TO CONCRETE THRUST BLOCKS. SEE S-423.
11. STAINLESS STEEL BOLTS REQUIRED IN AREAS WITH HIGH WATER TABLE.

REVISION	DATE

S-422

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RICHFIELD CITY

WATER – CULINARY

SCALE: NONE	ENG.: T.M.J.	PROJ.#: 0501-144
DATE: 01/24/2005	DWG.BY: L.G.	DWG.NAME: water