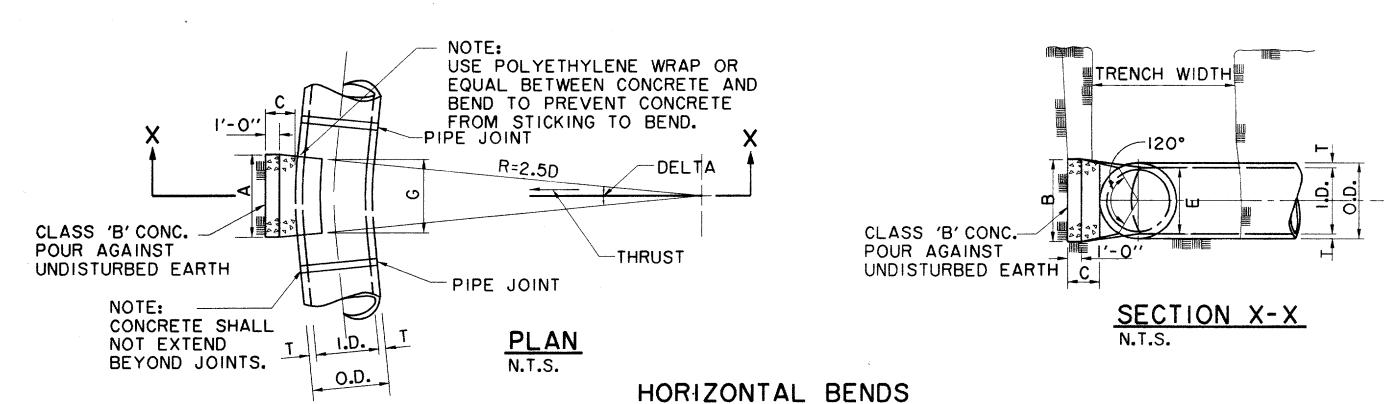


PLAN OF PLUG THRUST BLOCK

PLAN OF TEE THRUST BLOCK

			EA	RTH	R(OCK
I.D. (IN.)	THRUST TONS	C. FT.	A. FT.	VOL.	A. FT.	VOL.
4, 6, 8	5.1	1.5	2.5	0.3	2.0	0.2
10, 12	11.3	1.5	3.5	0.6	2.5	0.3
16, 18	25.5	2.0	5.5	1.6	4.0	0.9
24	45.2	2.5	7.0	3.1	5.0	1.7



I.D. (IN.)	T.	C II.25° FT.	C 22.50°+ FT.	E. FT.
4, 6, 8	0.4	1.5	1.5	0.9
10, 12	0.5	1.5	1.5	1.2
16, 18	0.6	1.5	1.5	1.6
24	0.9	1.5	1.5	2.1

ef logical*, *no ref nome*, *no ref levels*
ef logical*, *no ref name*, *no ref levels*

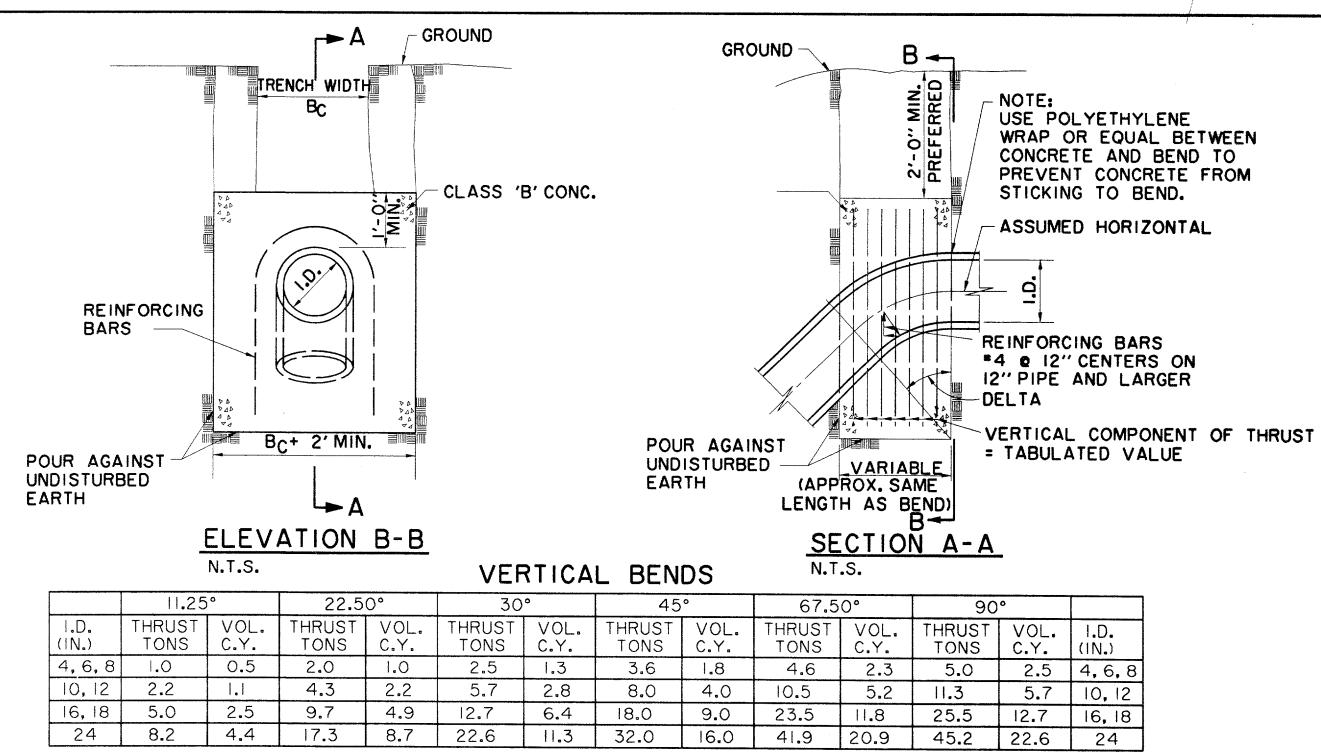
3 5 5 5 5 8 **8 8 8**

B, AUG3BD.DGN, 4,5,8,13,16,20,23-29,32-34,37-39
-no ref logical*, *no ref name*, *no ref levels*
-no ref logical*, *no ref name*, *no ref levels*
-no ref logical*, *no ref name*, *no ref levels*
-no ref logical*, *no ref name*, *no ref levels*

DELTA				11.25	j°							22.5	.O°				DELTA
		·		EARTH			ROCK					EARTH			ROCK		
1.D. (1N.)	G. FT.	THRUST TONS	A. FT.	B. FT.	VOL. C.Y.	A. FT.	B. FT.	VOL.	G. FT.	THRUST TONS	A. FT.	B. FT.	VOL. C.Y.	A. FT.	B. FT.	VOL.	1.D. (IN.)
4, 6, 8	0.4	1.0	1.0	1.5	0.1	1.0	1.0	0.1	0.8	2.0	1.5	1.5	0.1	1.0	1.0	0.1	4, 6, 8
10, 12	0.6	2.2	1.5	1.5	0.1	1.0	1.5	0.1	1.1	4.4	2.0	2.5	0.3	1.5	1.5	0.1	10, 12
16, 18	0.8	5.0	2.0	2.5	0.3	1.5	2.0	0.2	1.6	9.9	3.0	3.5	0.6	2.0	2.5	0.3	16, 18
24	1.1	8.9	3.0	3.5	0.5	1.5	3.0	0.3	2.2	17.7	4.0	4.5	1.0	3.0	3.5	0.5	24
DELTA				45	0							90) °				DELTA
4, 6, 8	0.4	3.9	2.0	2.0	0.2	1.5	1.5	0.1	0.4	5.0	5.0	1.5	0.4	2.0	2.0	0.2	4, 6, 8
10, 12	0.5	8.7	3.5	2.5	0.5	2.0	2.5	0.3	0.5	6.5	6.5	2.5	1.0	3.5	2.5	0.5	10, 12
16, 18	0.6	19.5	4.5	4.5	1.2	3.0	3.5	0.6	0.6	9.0	9.0	4.0	2.4	4.5	4.0	1.0	16, 18
24	0.9	34.6	8.0	4.5	2.3	4.5	4.0	1.1	0.9	14.5	14.5	4.5	5.0	8.0	4.0	2.1	24

GENERAL NOTES

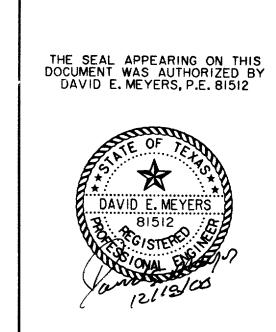
- I. UNPLASTICIZED POLYVINYL CHLORIDE (PVC) WATER PIPE SHALL MEET OR EXCEED REQUIREMENTS OF AWWA C900 PVC PIPE WITH CAST IRON OUTSIDE DIMENSIONS. PIPE SHALL BE LISTED BY UNDERWRITER LABORATORIES AND SHALL BE APPROVED FOR USE IN CITIES AND TOWNS OF THE STATE OF TEXAS BY THE STATE BOARD OF INSURANCE.
- 2. PVC WATER PIPE SHALL BE FURNISHED WITH A RUBBER RING AT EACH JOINT AND AN INTEGRAL THICKENED BELL AS A PART OF EACH JOINT. THE PIPE CLASS SHALL BE MINIMUM CLASS 150 DR 18 WHICH REFERS TO THE MAXIMUM HYDROSTATIC PRESSURE IN NORMAL OPERATIONS. LAYING LENGTHS SHALL BE 20 FEET+/-. PIPE AND FITTINGS MUST BE ASSEMBLED WITH A NONTOXIC LUBRICANT.
- 3. FITTINGS FOR PVC WATER PIPE SHALL BE GRAY IRON OR DUCTILE IRON OF THE BELL AND SPIGOT, OR MECHANICAL JOINT TYPE AND SHALL BE CLASS 250 IN ACCORDANCE WITH AWWA CIIO-77 (ANSI.10).
- 4. UNLESS OTHERWISE SPECIFIED ON PLANS OR SHOWN IN PROFILES, PVC WATER PIPE SHALL BE INSTALLED TO CLEAR ALL UTILITY LINES AND SHALL HAVE A MINIMUM COVER OF 36 INCHES BELOW THE LOWEST GRADE OF THE STREET AS PER CITY CODE.
- 5. 4''-12'' R S GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C-500.
- 6. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHOSE OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4' OF VALVE BOX LID.
- 7. DUCTILE IRON OR C-900 PVC PIPE SHALL BE USED FOR VALVE STACKS WITH VALVE BOX CASTING.



GENERAL NOTES FOR ALL THRUST BLOCKS

- 1. ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 P.S.I. FOR 24'' I.D. PIPE AND
- SMALLER AND 150 P.S.I. ON 30'' I.D. AND LARGER. 2. VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (CLASS F) IS EQUAL TO OR GREATER THAN THE VERTICAL
- COMPONENT OF THRUST ON THE VERTICAL BEND. 3. WALL THICKNESS (T) ASSUMED HERE FOR ESTIMATING PURPOSES ONLY.
- 4. CONCRETE FOR BLOCKING SHALL BE CLASS B CONCRETE.
 5. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS AND AS DIRECTED BY THE
- ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE. 6. CONCRETE BLOCKING SHALL BE IN PLACE A MINIMUM OF 4 DAYS PRIOR TO TESTING THE PIPELINE.

RECORD DRAWING



DATE		DESCRIPTION	REF NO
	·		
6/23/99	ISSUED FO	R CONSTRUCTION	N/A
5/17/99	ISSUED FO	R BID	N/A
		WATER RETAIL	
		WATER DETAILS	S

ADDISON CIRCLE

PHASE II-B PUBLIC INFRASTRUCTURE TOWN OF ADDISON, TEXAS

3131 Mckinney Ave., Suite 600, Dallas, TX 75204 Phone (214) 871-3311/Fax (214) 871-0757 DESIGN DRAWN APPR. | SCALE | DATE PROJECT NO. HZI DEM N.T.S. MAR. 99 01-1822-50

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