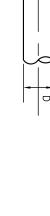
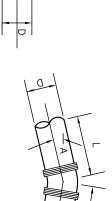


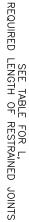
ALL JOINTS TO BE RESTRAINED.
MECHANICAL RESTRAINT DEVICES SHALL BE AWWA
ACCEPTED.

NOTES

- A. BELL JOINT RESTRAINTS USE FIELD LOCK BY U.S. PIPE OR APPROVED EQUIVALENT.
- **B.** MECHANICAL JOINT RESTRAINTS EBAA IRON MEGALUG RETAINER GLAND OR EQUIVALENT.
- **Q.** CONTRACTOR TO USE RESTRAINED JOINTS UNLESS THRUST BLOCKING IS PREAPPROVED FOR SPECIAL CONDITIONS BY THE CITY PRIOR TO THE BEGINNING OF CONSTRUCTION.







TEE	90°	45°	22 1/2	11 1/4			REQUIRED LENGTH OF RESTRAINED JOINTS IN FEET
18	18	3	*	*	4"		D LEN
25	25	4	2	*	6"	D-DIA	GTH 0
33	33	5	3	*	8"	JETER	F RES
40	40	6	3	*	10"	OF PIF	RAINE
47	47	8	4	*	12"	Эς	NIOF (
60	60	10	5	2	16"		IS IN
72	72	12	6	3	20"		FEET
85	85	13	6	3	24"		
	18 25 33 40 47 60 72	18 25 33 40 47 60 72 18 25 33 40 47 60 72	3 4 5 6 8 10 12 18 25 33 40 47 60 72 18 25 33 40 47 60 72	/2" * 2 3 3 4 5 6 3 4 5 6 8 10 12 18 25 33 40 47 60 72 18 25 33 40 47 60 72	* * * * * 2 3 * 2 3 3 4 5 6 3 4 5 6 8 10 12 18 25 33 40 47 60 72 18 25 33 40 47 60 72	4" 6" 8" 10" 12" 16" 20" ** * * * 2 3 ** 2 3 3 4 5 6 ** 25 33 40 47 60 72 8 18 25 33 40 47 60 72 8	D-DIAMETER OF PIPE 4" 6" 8" 10" 12" 16" 20" ** * * * * 2 3 ** 2 3 3 4 5 6 8 10 72 72 8 18 25 33 40 47 60 72 8

~ DEGREE DEFLECTION

OF

DESIGN PARAMETERS

REQUIRED LENGTH OF RESTRAINED JOINTS FOR WATER MAINS

* REQUIRED RESTRAINED JOINT AT FITTING.

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SIDNEY	CITY
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RESTRAINING JOINTS AND TAPPING SLEEVE FOR WATER MAINS

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