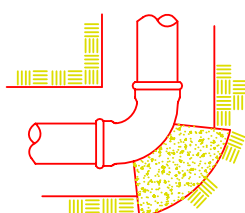
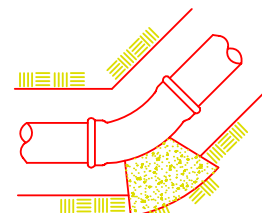
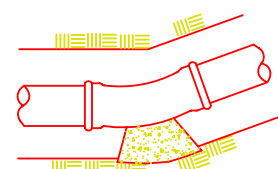
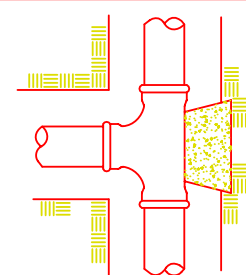
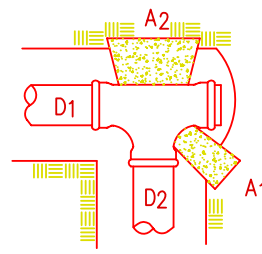


TYPE OF FITTING		90° BEND	45° BEND	11 1/2' OR 22 1/2' BEND
TYPICAL INSTALLATION				
SIZE OF PIPE	4"	2	1	1
	6"	4	2	1
	8"	7	4	2
	10"	12	6	3
	12"	16	10	5
	24"	60	30	16
	30"	90	45	25

TYPE OF FITTING		TEE OR DEAD END	TEE WITH PLUG			
TYPICAL INSTALLATION						
SIZE OF PIPE	4"	2	D1 4"	A1 2	D2 4"	A2 2
	6"	3	D1 6"	A1 4	D2 6"	A2 3
	8"	5	D1 8"	A1 6	D2 8"	A2 5
	10"	8	D1 10"	A1 10	D2 10"	A2 8
	12"	12	D1 12"	A1 14	D2 12"	A2 12
	24"	40	D1 24"	A1 55	D2 24"	A2 40
	30"	60	D1 30"	A1 80	D2 30"	A2 60

REQUIRED BEARING ~ TOTAL SQUARE FEET

NOTES:

1. THRUST BLOCKS TO BE CONSTRUCTED OF CLASS "B" CONCRETE.
2. AREAS GIVEN ARE FOR CLASS 150 PIPE AT TEST PRESSURE OF 150 P.S.I. IN SOIL WITH 2,500 P.S.F. BEARING CAPACITY. INSTALLATIONS USING DIFFERENT PIPE, TEST PRESSURES, AND/OR SOIL TYPES SHOULD ADJUST AREAS ACCORDINGLY, SUBJECT TO APPROVAL BY ENGINEER.
3. THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.
4. JOINTS TO BE KEPT CLEAR OF CONCRETE.
5. THRUST BLOCKS TO BE IN PLACE 7 (SEVEN) DAYS BEFORE TESTING.
6. ALL PLUGS SHALL BE SECURED WITH THRUST BLOCKS.
7. THRUST BLOCKS MAY BE REPLACED BY MECHANICAL JOINT DUCTILE IRON RETAINERS GLANDS. AN EXAMPLE OF SUCH APPROVED BY THE CITY IS MEGALUG®



DEPARTMENT OF CITY SERVICES

STANDARD DETAIL 402

APPROVED DATE

Thrust Blocks