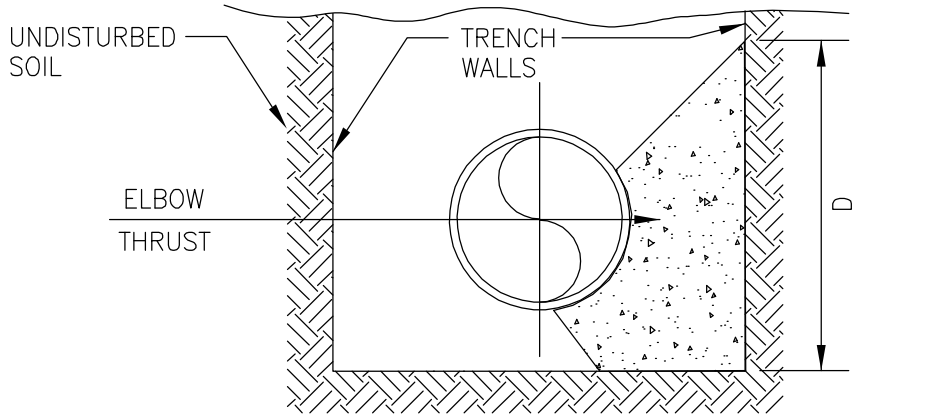


PLAN



SECTION A-A

MINIMUM AREA OF ELBOW BLOCKS *
L x D SQ. FT.

ANGLE OF BEND	NOMINAL PIPE SIZE (IN.)				
	4"	6"	8"	10"	12"
11-1/4°	1	1	1	2	2
22-1/2°	1	2	2	3	4
45°	1	3	4	6	8
90°	2	4	7	11	15
TEE OR DEAD END	2	3	5	8	11

*BASED ON BEARING PRESSURE OF 2000 LBS./SQ. FT ON UNDISTURBED SOIL.

THRUST BLOCKING
NOT TO SCALE



VILLAGE OF INDIAN HILL
DEPARTMENT OF WATER WORKS

APPROVED *J. Q.*
DATE November 2011

STANDARD
RESTRAINT DETAILS

DRAWING NO.

WW-127