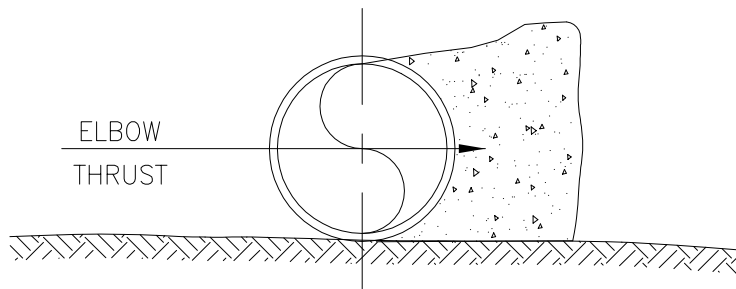


PLAN



SECTION A-A

MINIMUM AREA OF FRICTION BLOCKS *
CUBIC YARDS OF CONCRETE

ANGLE OF BEND	NOMINAL PIPE SIZE (IN.)				
	4"	6"	8"	10"	12"
11-1/4°	1	1	2	3	4
22-1/2°	1	2	4	5	7
45°	2	4	7	10	13
90°	4	7	12	17	24
TEE OR DEAD END	3	5	9	13	18

*BASED ON 0.3 SOIL FRICTION

ANCHOR BLOCKING
NOT TO SCALE



VILLAGE OF INDIAN HILL

DEPARTMENT OF WATER WORKS

APPROVED *Jim C. King*

DATE October 2006

STANDARD
RESTRAINT DETAILS

DRAWING NO.

WW-128