

NUMBER OF PRECAST RINGS REQUIRED FOR MANHOLES OF VARIOUS HEIGHTS																								
TOTAL HEIGHT "H"	9" FRAME +2'-8" CORBEL =3'-5"				PRECAST RINGS				BRICK AND/OR MORTAR	TOTAL HEIGHT "H"	9" FRAME +2'-8" CORBEL =3'-5"													
	4'-0"	2'-8"	1'-4"	8"	4'-0"	2'-8"	1'-4"	8"			4'-0"	2'-8"	1'-4"	8"										
5'-0"	3'-5"				1				3"	12'-0"	3'-5"	2				1	3"	19'-0"	3'-5"	3	1	1	1	3"
6'-0"	3'-5"				1				4"	13'-0"	3'-5"	2				1	4"	20'-0"	3'-5"	4	1	1	1	4"
7'-0"	3'-5"				1				5"	14'-0"	3'-5"	2				1	5"	21'-0"	3'-5"	5	1	1	1	5"
8'-0"	3'-5"				1				6"	15'-0"	3'-5"	2				1	6"	22'-0"	3'-5"	6	1	1	1	6"
9'-0"	3'-5"				1				7"	16'-0"	3'-5"	3				1	7"	23'-0"	3'-5"	7	1	1	1	7"
10'-0"	3'-5"				1				8"	17'-0"	3'-5"	3				1	8"	24'-0"	3'-5"	8	1	1	1	8"
11'-0"	3'-5"				1				9"	18'-0"	3'-5"	3				1	9"	25'-0"	3'-5"	9	1	1	1	9"
12'-0"	3'-5"				1				10"	19'-0"	3'-5"	3				1	10"	26'-0"	3'-5"	10	1	1	1	10"
13'-0"	3'-5"				1				11"	20'-0"	3'-5"	3				1	11"	27'-0"	3'-5"	11	1	1	1	11"
14'-0"	3'-5"				1				12"	21'-0"	3'-5"	3				1	12"	28'-0"	3'-5"	12	1	1	1	12"
15'-0"	3'-5"				1				13"	22'-0"	3'-5"	3				1	13"	29'-0"	3'-5"	13	1	1	1	13"
16'-0"	3'-5"				1				14"	23'-0"	3'-5"	3				1	14"	30'-0"	3'-5"	14	1	1	1	14"
17'-0"	3'-5"				1				15"	24'-0"	3'-5"	3				1	15"	31'-0"	3'-5"	15	1	1	1	15"
18'-0"	3'-5"				1				16"	25'-0"	3'-5"	3				1	16"	32'-0"	3'-5"	16	1	1	1	16"
19'-0"	3'-5"				1				17"	26'-0"	3'-5"	3				1	17"	33'-0"	3'-5"	17	1	1	1	17"
20'-0"	3'-5"				1				18"	27'-0"	3'-5"	3				1	18"	34'-0"	3'-5"	18	1	1	1	18"
21'-0"	3'-5"				1				19"	28'-0"	3'-5"	3				1	19"	35'-0"	3'-5"	19	1	1	1	19"
22'-0"	3'-5"				1				20"	29'-0"	3'-5"	3				1	20"	36'-0"	3'-5"	20	1	1	1	20"
23'-0"	3'-5"				1				21"	30'-0"	3'-5"	3				1	21"	37'-0"	3'-5"	21	1	1	1	21"
24'-0"	3'-5"				1				22"	31'-0"	3'-5"	3				1	22"	38'-0"	3'-5"	22	1	1	1	22"
25'-0"	3'-5"				1				23"	32'-0"	3'-5"	3				1	23"	39'-0"	3'-5"	23	1	1	1	23"
26'-0"	3'-5"				1				24"	33'-0"	3'-5"	3				1	24"	40'-0"	3'-5"	24	1	1	1	24"
27'-0"	3'-5"				1				25"	34'-0"	3'-5"	3				1	25"	41'-0"	3'-5"	25	1	1	1	25"
28'-0"	3'-5"				1				26"	35'-0"	3'-5"	3				1	26"	42'-0"	3'-5"	26	1	1	1	26"
29'-0"	3'-5"				1				27"	36'-0"	3'-5"	3				1	27"	43'-0"	3'-5"	27	1	1	1	27"
30'-0"	3'-5"				1				28"	37'-0"	3'-5"	3				1	28"	44'-0"	3'-5"	28	1	1	1	28"
31'-0"	3'-5"				1				29"	38'-0"	3'-5"	3				1	29"	45'-0"	3'-5"	29	1	1	1	29"
32'-0"	3'-5"				1				30"	39'-0"	3'-5"	3				1	30"	46'-0"	3'-5"	30	1	1	1	30"
33'-0"	3'-5"				1				31"	40'-0"	3'-5"	3				1	31"	47'-0"	3'-5"	31	1	1	1	31"
34'-0"	3'-5"				1				32"	41'-0"	3'-5"	3				1	32"	48'-0"	3'-5"	32	1	1	1	32"
35'-0"	3'-5"				1				33"	42'-0"	3'-5"	3				1	33"	49'-0"	3'-5"	33	1	1	1	33"
36'-0"	3'-5"				1				34"	43'-0"	3'-5"	3				1	34"	50'-0"	3'-5"	34	1	1	1	34"
37'-0"	3'-5"				1				35"	44'-0"	3'-5"	3				1	35"	51'-0"	3'-5"	35	1	1	1	35"
38'-0"	3'-5"				1				36"	45'-0"	3'-5"	3				1	36"	52'-0"	3'-5"	36	1	1	1	36"
39'-0"	3'-5"				1				37"	46'-0"	3'-5"	3				1	37"	53'-0"	3'-5"	37	1	1	1	37"
40'-0"	3'-5"				1				38"	47'-0"	3'-5"	3				1	38"	54'-0"	3'-5"	38	1	1	1	38"
41'-0"	3'-5"				1				39"	48'-0"	3'-5"	3				1	39"	55'-0"	3'-5"	39	1	1	1	39"
42'-0"	3'-5"				1				40"	49'-0"	3'-5"	3				1	40"	56'-0"	3'-5"	40	1	1	1	40"
43'-0"	3'-5"				1				41"	50'-0"	3'-5"	3				1	41"	57'-0"	3'-5"	41	1	1	1	41"
44'-0"	3'-5"				1				42"	51'-0"	3'-5"	3				1	42"	58'-0"	3'-5"	42	1	1	1	42"
45'-0"	3'-5"				1				43"	52'-0"	3'-5"	3				1	43"	59'-0"	3'-5"	43	1	1	1	43"
46'-0"	3'-5"				1				44"	53'-0"	3'-5"	3				1	44"	60'-0"	3'-5"	44	1	1	1	44"
47'-0"	3'-5"				1				45"	54'-0"	3'-5"	3				1	45"	61'-0"	3'-5"	45	1	1	1	45"
48'-0"	3'-5"				1				46"	55'-0"	3'-5"	3				1	46"	62'-0"	3'-5"	46	1	1	1	46"
49'-0"	3'-5"				1				47"	56'-0"	3'-5"	3				1	47"	63'-0"	3'-5"	47	1	1	1	47"
50'-0"	3'-5"				1				48"	57'-0"	3'-5"	3				1	48"	64'-0"	3'-5"	48	1	1	1	48"
51'-0"	3'-5"				1				49"	58'-0"	3'-5"	3				1	49"	65'-0"	3'-5"	49	1	1	1	49"
52'-0"	3'-5"				1				50"	59'-0"	3'-5"	3				1	50"	66'-0"	3'-5"	50	1	1	1	50"
53'-0"	3'-5"				1				51"	60'-0"	3'-5"	3				1	51"	67'-0"	3'-5"	51	1	1	1	51"
54'-0"	3'-5"				1				52"	61'-0"	3'-5"	3				1	52"	68'-0"	3'-5"	52	1	1	1	52"
55'-0"	3'-5"				1				53"	62'-0"	3'-5"	3				1	53"	69'-0"	3'-5"	53	1	1	1	53"
56'-0"	3'-5"				1				54"	63'-0"	3'-5"	3				1	54"	70'-0"	3'-5"	54	1	1	1	54"
57'-0"	3'-5"				1				55"	64'-0"	3'-5"	3				1	55"	71'-0"	3'-5"	55	1	1	1	55"
58'-0"	3'-5"				1				56"	65'-0"	3'-5"	3				1	56"	72'-0"	3'-5"	56	1	1	1	56"
59'-0"	3'-5"				1				57"	66'-0"	3'-5"	3				1	57"	73'-0"	3'-5"	57	1	1	1	57"
60'-0"	3'-5"				1				58"	67'-0"	3'-5"	3				1	58"	74'-0"	3'-5"	58	1	1	1	58"
61'-0"	3'-5"				1				59"	68'-0"	3'-5"	3				1	59"	75'-0"	3'-5"	59	1	1	1	59"
62'-0"	3'-5"				1				60"	69'-0"	3'-5"	3				1	60"	76'-0"	3'-5"	60	1	1	1	60"
63'-0"	3'-5"				1				61"	70'-0"	3'-5"	3				1	61"	77'-0"	3'-5"	61	1	1	1	61"
64'-0"	3'-5"				1				62"	71'-0"	3'-5"	3				1	62"	78'-0"	3'-5"	62	1	1	1	62"
65'-0"	3'-5"				1				63"	72'-0"	3'-5"	3				1	63"	79'-0"	3'-5"	63	1	1	1	63"
66'-0"	3'-5"				1				64"	73'-0"	3'-5"	3				1	64"	80'-0"	3'-5"	64	1	1	1	64"
67'-0"	3'-5"				1				65"	74'-0"	3'-5"	3				1	65"	81'-0"	3'-5"	65	1	1	1	65"
68'-0"	3'-5"				1				66"	75'-0"	3'-5"	3				1	66"	82'-0"	3'-5"	66	1	1	1	66"
69'-0"	3'-5"				1				67"	76'-0"	3'-5"	3				1	67"	83'-0"	3'-5"	67	1	1	1	67"
70'-0"	3'-5"				1				68"	77'-0"	3'-5"	3				1	68"	84'-0"	3'-5"	68	1	1	1	68"
71'-0"	3'-5"				1				69"	78'-0"	3'-5"	3				1	69"	85'-0"	3'-5"	69	1	1	1	69"
72'-0"	3'-5"				1				70"	79'-0"	3'-5"	3				1	70"	86'-0"	3'-5"	70	1	1	1	70"
73'-0"	3'-5"				1				71"	80'-0"	3'-5"	3				1	71"	87'-0"	3'-5"	71	1	1	1	71"
74'-0"	3'-5"				1				72"	81'-0"	3'-5"	3				1	72"	88'-0"	3'-5"	72	1	1	1	72"
75'-0"	3'-5"				1				73"	82'-0"	3'-5"	3				1	73"	89'-0"	3'-5"	73	1	1	1	73"
76'-0"	3'-5"				1				74"	83'-0"	3'-5"	3				1	74"	90'-0"	3'-5"	74	1	1	1	74"
77'-0"	3'-5"				1				75"	84'-0"	3'-5"	3				1	75"	91'-0"	3'-5"	75	1	1	1	75"
78'-0"	3'-5"				1				76"	85'-0"	3'-5"	3				1	76"	92'-0"	3'-5"	76	1	1	1	76"
79'-0"	3'-5"				1				77"	86'-0"	3'-5"	3				1	77"	93'-0"	3'-5"	77	1	1	1	77"
80'-0"	3'-5"				1				78"	87'-0"	3'-5"	3				1	78"	94'-0"	3'-5"	78	1	1	1	78"
81'-0"	3'-5"				1				79"	88'-0"	3'-5"	3				1	79"	95'-0"	3'-5"	79	1	1	1	79"
82'-0"	3'-5"				1				80"	89'-0"	3'-5"	3				1	80"	96'-						