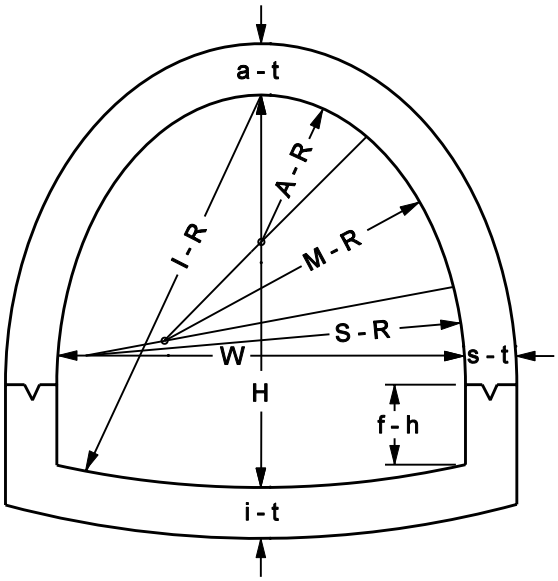

NOTE:
3' 6" x 6' - 0" FORMS USED
* = 2' - 6" WIDE AT BOTTOM
TH. = THICKNESS

SIZE		a - t	s - t	i - t	A - R	M - R	S - R	I - R		f - h
W (FT.)	H (FT.)	ARCH TH. (IN.)	SIDE TH. (IN.)	INVERT TH. (IN.)	RADIUS OF ARCH	RADIUS MID SIDES	RADIUS OF SIDES	RADIUS OF INVERT	FOOTING HEIGHT (IN.)	INSIDE AREA (SQ. FT.)
3.0 *	5.5	7	9	8	18			66	8	14.37
3.0	6.0	6	6 1/2	10	12		120 90	48	8	15.43
3.5	6.0	6	6 1/2	10	12		89	48	8	17.55
4.0	6.0	6 1/2	7 1/2	10	18		54	72	8	19.50
4.5	6.0	6 1/2	7	10	18		72	54	8	22.18
5.5	6.0	6 3/4	8	10	24		66	66	10	26.84
6.0	6.0	7	8	10	24		72	72	8	28.22
7.0	7.0								8	39.70
7.5	7.5	8	9	10	36	63 5/8	86 3/4	90	10	45.54
8.0	8.0	9	10	10	38 3/8	67 7/8	92 5/8	96	12	51.51
8.5	8.5	10	12	12	40 13/16	72 1/8	98 3/8	102	12	58.20
9.0	9.0	10	12	12	43 1/4	76 3/8	104 3/16	108	12	65.50
9.5	9.5	11	12	12	45 5/8	80 5/8	110	114	12	73.37
10.0	10.0				48	84 7/8	115 3/4	120		81.07
11.0	11.0									
12.0	12.0				48 - 54		144	168		114.50

REFERENCE PLATE ONLY

MINNEAPOLIS CUSTOM
MNDOT SPEC. REF. 2501, 2503
NOT TO SCALE

MINNEAPOLIS
DEPARTMENT OF PUBLIC WORKS

DRAWN: DCD | DATE: 12/02
APPROVED: HRS | DATE: 1/07

SEMI-ELLIPTICAL TUNNEL

STANDARD PLATE NO. SEWR-5007