REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE

SPAN	RISE	H	R	S	SINGLE PIPE		DOUBLE PIPE		TRIPLE PIPE	
					G	m^3 CONC., 2 ANCHORS	G	m^3 CONC., 2 ANCHORS	G	m^3 CONC., 2 ANCHORS
1150	730	900	840	1980	1680	1.6	3660	3.7	5640	5.7
1250	795	920	890	2110	1790	1.7	3890	3.9	6000	6.1
1345	855	940	950	2270	1900	1.9	4170	4.2	6440	6.6
1535	975	980	1060	2580	2110	2.1	4700	4.8	7280	7.5
1730	1095	1020	1170	2900	2330	1.3	5240	5.4	8230	8.5
1920	1220	1070	1270	3210	2550	2.5	5750	6.0	8960	9.4
2110	1340	1110	1380	3520	2760	2.7	6280	6.6	9800	10.4
2305	1465	1150	1490	3830	2980	2.9	6810	7.2	10640	11.5
2495	1585	1200	1600	4100	3200	3.1	7300	7.8	11400	12.4
2690	1705	1240	1710	4320	3420	3.4	7740	8.2	12060	13.1
2880	1830	1280	1820	4530	3630	3.6	8170	8.7	12700	13.8
3070	1950	1330	1920	4750	3850	3.8	8590	9.2	13340	14.6
3265	2075	1360	2030	4950	4050	4.0	9010	9.6	13960	15.2
3455	2195	1400	2130	5160	4260	4.2	9420	10.1	14580	15.9
3648	2315	1440	2240	5370	4470	4.4	9850	10.5	15220	16.6
3840	2440	1490	2350	5590	4690	4.6	10290	11.0	15880	17.4
4225	2680	1570	2560	6030	5130	5.0	11150	11.9	17180	18.9
4610	2925	1660	2780	6460	5560	5.5	12020	12.9	18480	20.3

CORRUGATED ALUMINUM ALLOY OR STEEL PIPE-ARCH

SPAN	RISE	H	R	S	SINGLE PIPE		DOUBLE PIPE		TRIPLE PIPE	
					G	m^3 CONC., 2 ANCHORS	G	m^3 CONC., 2 ANCHORS	G	m^3 CONC., 2 ANCHORS
1240	840	920	800	1910	1590	1.7	3510	3.7	5420	5.9
1440	970	940	900	2210	1790	1.9	4010	4.4	6220	6.8
1620	1110	990	990	2480	1970	2.1	4460	4.9	6940	7.7
1800	1200	1020	1080	2750	2150	2.3	4910	5.5	7660	8.6
1950	1320	1070	1150	2980	2300	2.5	5280	6.0	8260	9.6
2100	1450	1120	1230	3200	2450	2.7	5660	6.6	8860	10.4
1520	1170	1150	940	2330	1870	2.2	4210	5.1	6540	8.0
1670	1300	1170	1010	2560	2020	2.4	4580	5.7	7140	8.9
1850	1400	1220	1100	2830	2200	2.6	5030	6.3	7860	10.0
2050	1500	1270	1200	3130	2400	2.8	5530	7.0	8660	11.1
2200	1620	1270	1280	3350	2550	3.1	5910	7.5	9260	11.9
2400	1720	1320	1380	3650	2750	3.3	6410	8.3	10060	13.2
2600	1820	1380	1480	3850	2950	3.6	6810	8.9	10660	14.1
2840	1920	1430	1600	4090	3190	3.9	7290	9.6	11380	15.1
2970	2020	1450	1660	4220	3320	4.1	7540	9.9	11760	15.7
3240	2120	1530	1800	4490	3590	4.4	8090	10.8	12580	17.1
3470	2220	1580	1910	4720	3820	4.7	8540	11.5	13260	18.0
3600	2320	1630	1980	4850	3950	5.0	8810	12.0	13660	19.0

GENERAL NOTES

1. Refer to Standard Drawings 715-SPCA-01 and 715-SPCA-02 for single anchor details.
2. Refer to Standard Drawing 715-MPCA-02 for multiple anchor details.

LEGEND

H – Anchor height

R – Dimension from anchor edge to ℄ exterior pipe

S – Dimension between ℄ of adjacent pipes

G – Overall anchor length

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

CONCRETE ANCHOR TABLES

JANUARY 1998

STANDARD DRAWING NO. **715-ANCH-02**

ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Anthony L. Uremovich 1-02-98
DESIGN STANDARDS ENGINEER DATE

/s/ Donald W. Lucas 1-02-98
CHIEF HIGHWAY ENGINEER DATE

DESIGN STANDARDS ENGINEER

Source Sheet: ME1A