APPROXIMATE QUANTITIES

PIPE SIZE	2:1 SLOPE				3:1 SLOPE				4:1 SLOPE				5:1 SLOPE				6:1 SLOPE			
	Concrete, m^3		Reinf. Steel, kg	Str. Steel, kg	Concrete, m^3		Reinf. Steel, kg	Str. Steel, kg	Concrete, m^3		Reinf. Steel, kg	Str. Steel, kg	Concrete, m^3		Reinf. Steel, kg	Str. Steel, kg	Concrete, m^3		Reinf. Steel, kg	Str. Steel, kg
	Conc. Pipe	C.M. Pipe			Conc. Pipe	C.M. Pipe			Conc. Pipe	C.M. Pipe			Conc. Pipe	C.M. Pipe			Conc. Pipe	C.M. Pipe		
430 x 330	–	0.8	120	30	–	0.9	150	70	–	1.1	190	80	–	1.4	220	100	–	1.6	260	130
530 x 380	–	0.8	130	40	–	1.0	160	70	–	1.2	200	90	–	1.5	240	100	–	1.8	280	140
610 x 460	–	1.1	160	80	–	1.4	210	110	–	1.7	260	170	–	2.0	310	200	–	2.4	360	230
710 x 510	–	1.1	170	80	–	1.4	220	110	–	1.8	280	180	–	2.1	330	210	–	2.5	380	240
885 x 610	–	1.5	220	140	–	2.0	280	190	–	2.4	350	240	–	2.9	420	340	–	3.4	490	390
1060 x 740	–	1.6	240	150	–	2.2	320	210	–	2.7	400	310	–	3.4	480	370	–	3.9	560	430
1240 x 840	–	2.1	290	160	–	2.8	390	230	–	3.5	490	340	–	4.2	590	410	–	4.9	680	470
1440 x 970	–	2.3	320	180	–	3.1	430	300	–	4.0	550	370	–	4.7	660	440	–	5.6	770	520
1620 x 1100	–	2.9	390	260	–	3.9	520	420	–	4.9	660	530	–	6.0	800	640	–	7.0	930	800
1800 x 1200	–	3.0	410	280	–	4.2	560	440	–	5.4	710	560	–	6.4	860	670	–	7.6	1010	850

DIMENSIONS

Slope	A	B	C	D	E	F
2:1	230	200	170	210	20	20
3:1	320	310	140	170	30	30
4:1	420	410	130	150	40	40
5:1	520	510	120	150	50	50
6:1	620	610	120	150	60	60

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

GRATED BOX END SECTION TYPE I
DIMENSIONS AND QUANTITIES

JANUARY 1999

STANDARD DRAWING NO. **715-GBTO-08**

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

DESIGN STANDARDS ENGINEER

/s/ Anthony L. Uremovich 1-04-99
DESIGN STANDARDS ENGINEER DATE

/s/ Donald W. Lucas 1-04-99
CHIEF HIGHWAY ENGINEER DATE

Source Sheet: GBES 2