

DIMENSIONS AND ESTIMATE OF QUANTITIES

SIZE ①		PIPE		Z ①	CONCRETE CU.YDS.		④ REINFORCEMENT												LBS.	⑤										
							BAR a		BAR b		BAR c		BAR d		BAR e		BAR f													
X	Y	SIZE	LOCATION	②	③	QTY.	LIN. FT.	QTY.	LIN. FT.	QTY.	LIN. FT.	QTY.	LIN. FT.	QTY.	LIN. FT.	QTY.	LIN. FT.													
FOR CIRCULAR PIPE																														
4'-0"	4'-0"	30"	X OR Y	5'-3"	3.7	7	6'-5"	7	6'-4"	36	4'-1"	17	4'-6"	16	4'-4"	0	—	406	74											
		36"		5'-9"	3.9						4'-7"	19		18																
4'-3"		X	42"	X	6'-4"	4.3	8	6'-5"	7	6'-7"	38	5'-2"	23	4'-6"	20	4'-7"	20	0'-3"	515	78										
4'-10"			48"		6'-10"	4.9				7'-2"	40	5'-8"	27		22				5'-2"		0'-10"	612	81							
5'-5"			54"		7'-5"	5.6				7'-9"	42	6'-3"	31		24				5'-9"		1'-5"	710	84							
6'-0"			60"		7'-11"	6.3				8'-3"	44	6'-9"	35		26				6'-3"		2'-0"	813	91							
6'-7"			66"		8'-6"	7.0				8'-10"	46	7'-4"	39		28				6'-10"		2'-7"	927	95							
7'-2"			72"		9'-0"	7.8				9'-5"	48	7'-10"	41		30				7'-5"		3'-2"	1025	100							
FOR ELLIPTICAL PIPE																														
4'-0"	4'-0"	24" x 38"	X OR Y	4'-9"	3.5	7	6'-5"	7	6'-4"	36	3'-7"	15	4'-6"	14	4'-4"	0	—	367	74											
4'-6"		29" x 45"		5'-3"	4.0				0.5	8	6'-10"	38		4'-1"				21		16	4'-10"	0'-7"	464	79						
5'-3"		34" x 53"	5'-8"	4.6	0.6	10	6'-5"	7	7	7'-7"	40	4'-6"	25	4'-6"	18	5'-7"	20	1'-4"	554	84										
5'-11"		38" x 60"	6'-1"	5.2						9	8'-3"	44	4'-11"		29				20		6'-3"	2'-0"	661	91						
6'-8"		43" x 68"	6'-6"	5.9						10	9'-0"	46	5'-4"		33				22		7'-0"	2'-9"	767	96						
7'-5"		48" x 76"	7'-0"	6.7						11	9'-9"	50	5'-10"		39				24		7'-9"	3'-6"	906	103						
8'-1"		53" x 83"	7'-5"	7.4						0.7	12	6'-5"	7		7				10'-5"		52	6'-3"	43	4'-6"	26	8'-5"	20	4'-2"	1013	108
8'-10"		58" x 91"	7'-11"	8.2															12		11'-2"	56	6'-9"		49				28	

~ NOTES ~

- ① SEE CUR. STD. DWG. **RDM-010** FOR LOCATION OF "X", "Y" AND "Z" DIMENSIONS.
- ② CONCRETE REQUIRED FOR ONE MANHOLE CHAMBER. NO DEDUCTIONS FOR PIPE HAVE BEEN MADE.
- ③ CU. YDS. PER FT. INCREASE IN "Z".
- ④ ALL REINFORCEMENT SHALL BE NO. 5 BARS. 4 - g BARS 1'-9", REQUIRED IN TOP SLAB.
- ⑤ LBS. PER FT. INCREASE IN "Z".

CONCRETE DISPLACED
BY ONE CONCRETE PIPE

SIZE		CONC. CU.YDS.
CIR.	ELLIP.	
30"	24" x 38"	0.2
36"	29" x 45"	0.3
42"	34" x 53"	0.4
48"	38" x 60"	0.5
54"	43" x 68"	0.6
60"	48" x 76"	0.7
66"	—	0.8
—	53" x 83"	0.9
72"	58" x 91"	1.0

USE WITH CUR. STD. DWGS.
RDM-010 RDM-011 RDM-012

KENTUCKY
DEPARTMENT OF HIGHWAYS

MANHOLE TYPE C
(TABLE OF QUANTITIES)

STANDARD DRAWING NO. **RDM-013-04**
 SUBMITTED  12-01-15
 DIRECTOR, DIVISION OF DESIGN DATE
 APPROVED  12-01-15
 STATE HIGHWAY ENGINEER DATE