

DIMENSIONS AND ESTIMATE OF QUANTITIES (PIPE CHAMBER-SAG CONDITION)

INLET SIZE ④			MAX. PIPE DIA.	PIPE LOCATION	Z ①	CONCRETE		
NO. ⑥	X	Y				CU. YD.		Q ③
						①	②	
71	4'-11"	1'-3"	12"	X OR Y	2'-2"	1.2	0.4	
72		2'-0"	15"	X	2'-5"	1.3		
73				X OR Y		1.6		
74		1'-3"	18"	X	2'-9"	1.4		
75		2'-0"		X OR Y		1.8		
76		1'-3"	21"	X	3'-0"	1.5		
77		2'-0"				1.9		
78		2'-6"		X OR Y		2.1		
79		1'-3"	24"	X	3'-3"	1.6		
80		2'-0"				2.0		
81		2'-6"		X OR Y		2.2		
82		1'-3"	27"	X	3'-6"	1.7		
83		2'-0"				2.1		
84		2'-6"				2.3		
85		3'-0"	30"	X OR Y	3'-10"	2.5	0.5	
86		1'-3"		X		1.8	0.4	
87		2'-0"				2.2		
88		2'-6"				2.4		
89		3'-0"		X OR Y	4'-1"	2.7	0.5	
90		3'-6"	3.0					
91		1'-3"	X	4'-4"		1.9	0.4	
92		2'-0"				2.3		
93		2'-6"				2.5		
94		3'-0"	36"		X	2.8	0.5	
95		3'-6"				X OR Y		3.2
96		1'-3"		X		4'-7"	2.0	0.4
97		2'-0"					2.4	
98		2'-6"					2.7	
99		3'-0"	2.9					
100		3'-6"	X OR Y	4'-11"	3.3	0.5		
101		4'-0"			3.5			
102		1'-3"	42"	X	5'-2"	2.2	0.4	
103		2'-0"				2.6		
104		2'-6"				2.9		
105		3'-0"				3.2		
106		3'-6"			X OR Y	5'-2"	3.6	0.5
107		4'-0"					3.8	
108		4'-6"					4.1	

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INLET SIZE ④			MAX. PIPE DIA.	PIPE LOCATION	Z ①	CONCRETE	
NO. ⑥	X	Y				CU. YD. ① ②	Q ③
109	4'-11"	1'-3"	48"	X	5'-5"	2.4	0.4
110		2'-0"				2.8	
111		2'-6"				3.1	
112		3'-0"				3.4	0.5
113		3'-6"			5'-8"	3.8	
114		4'-0"				4.1	
115		4'-6"				4.4	
116		5'-0"		X OR Y		4.6	0.6

REFERENCE CHART

DIA. OF PIPE	D.B.I. TYPE 13		CONCRETE TO DEDUCT FOR EACH PIPE
	PIPE ON "X" SIDE OF INLET	PIPE ON "Y" SIDE OF INLET	
			CUBIC YARDS
0	4'-11"	1'-3"	----
12"			0.1
15"-18"			
21"			
24"			
27"		0.2	3'-0"
30"-33"			
36"			4'-0"
42"		4'-6"	0.4
48"		5'-0"	0.5

~ NOTES ~

- ① BASED ON "Z" AS EQUAL TO D+t+1'-0" WHEN "Y" DIMENSION IS LESS THAN 3'-6".
BASED ON "Z" AS EQUAL TO D+t+1'-3" WHEN "Y" DIMENSION IS 3'-6" OR GREATER.
- ② SEE REFERENCE CHART FOR QUANTITIES TO DEDUCT FOR PIPE.
- ③ Q = CU. YD. PER FT. INCREASE OR DECREASE WHEN Z VARIES.
- ④ SEE CUR. STD. DWGS. RDB-013 AND RDB-014 FOR DIMENSIONS.
5. SEE CUR. STD. DWGS. RDB-018 AND RDB-019 FOR STEEL REINFORCEMENT IN
PIPE CHAMBER AND RISER WHEN H = 8'-0" OR GREATER.
- ⑥ INLET IS SHOWN ON PLANS AS "DROP BOX INLET TYPE 13". FOLLOWING THIS IS A
NUMBER AND A BOX HEIGHT. USE THIS NUMBER WITH THIS CHART.
7. SEE CUR. STD. DWG. RDB-016 FOR DIMENSIONS AND ESTIMATE OF QUANTITIES WHEN
BOXES ARE LOCATED IN A GRADE CONDITION.

USE WITH CUR. STD. DWGS.
RDB-013 RDB-014 RDB-015
RDB-016 RDB-018 RDB-019

REVISION DATE: 12/01/2015
REVISION NUMBER: 0

SUBMITTED

William S. Leland

12-01-2015

DATE

DIVISION DIRECTOR

Shawn

12-01-2015

DATE

APPROVED

STATE HIGHWAY ENGINEER

DRAINAGE



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



INLETS

DROP BOX INLET TYPE 13 (PIPE CHAMBER-SAG CONDITION)

STANDARD DRAWING NUMBER
RDB-017-03