

**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. ①②	Q ③	
71		1'-3"	12"	X OR Y	2'-2"	1.2		
72			15"	X	2'-5"	1.3		
73		2'-0"		X OR Y		1.6		
74		1'-3"		X		1.4		
75		2'-0"	18"	X OR Y	2'-9"	1.8		
76		1'-3"		X		1.5		
77		2'-0"	21"		3'-0"	1.9		0.4
78		2'-6"		X OR Y		2.1		
79		1'-3"		X		1.6		
80		2'-0"	24"		3'-3"	2.0		
81		2'-6"		X OR Y		2.2		
82		1'-3"				1.7		
83		2'-0"	27"	X	3'-6"	2.1		
84		2'-6"				2.3		
85		3'-0"		X OR Y		2.5	0.5	
86		1'-3"				1.8		
87		2'-0"	30"	X	3'-10"	2.2	0.4	
88		2'-6"				2.4		
89		3'-0"				2.7	0.5	
90		3'-6"		X OR Y		3.0		
91		1'-3"				1.9		
92		2'-0"	33"	X	4'-1"	2.3	0.4	
93		2'-6"				2.5		
94	4'-11"	3'-0"				2.8	0.5	
95		3'-6"		X OR Y		3.2		
96		1'-3"				2.0		
97		2'-0"	36"		4'-4"	2.4	0.4	
98		2'-6"		X		2.7		
99		3'-0"				2.9		
100		3'-6"				3.3	0.5	
101		4'-0"		X OR Y	4'-7"	3.5		
102		1'-3"				2.2		
103		2'-0"	42"		4'-11"	2.6	0.4	
104		2'-6"		X		2.9		
105		3'-0"				3.2		
106		3'-6"				3.6	0.5	
107		4'-0"			5'-2"	3.8		
108		4'-6"		X OR Y		4.1		
109		1'-3"				2.4		
110		2'-0"	48"		5'-5"	2.8	0.4	
111		2'-6"				3.1		
112		3'-0"		X		3.4		
113		3'-6"				3.8	0.5	
114		4'-0"			5'-8"	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 CUBIC YARDS
	PIPE ON "X" SIDE OF INLET	PIPE ON "Y" SIDE OF INLET	
0			----
12"		1'-3"	
15"-18"		2'-0"	0.1
21"		2'-6"	
24"			
27"	4'-11"	3'-0"	0.2
30"-33"		3'-6"	
36"		4'-0"	0.3
42"		4'-6"	0.4
48"		5'-0"	0.5

~ NOTES ~

- ① BASED ON "Z" AS EQUAL TO D++1'-0" WHEN "Y" DIMENSION IS LESS THAN 3'-6". BASED ON "Z" AS EQUAL TO D+++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 ,**

<b>KENTUCKY</b>	
<b>DEPARTMENT OF HIGHWAYS</b>	
<b>DROP BOX INLET</b>	
<b>TYPE 13</b>	
(PIPE CHAMBER-SAG CONDITION)	
STANDARD DRAWING NO. RDB-017-03	
SUBMITTED <i>William S. Gullett</i>	DATE 12-01-15
<small>DIRECTOR, DIVISION OF DESIGN</small>	<small>DATE</small>
APPROVED <i>[Signature]</i>	DATE 12-01-15
<small>STATE HIGHWAY ENGINEER</small>	<small>DATE</small>