

DIMENSIONS AND ESTIMATE OF QUANTITIES
(GRADE CONDITION)

INLET SIZE ④			MAX. PIPE DIA.	LOCATION	Z ①	CONCRETE		
NO. ⑥	X	Y				CU. YD. ①②	Q ③	
1	2'-3"	2'-0"	12"	X OR Y	2'-2"	0.9	0.3	
2			15"		2'-5"	1.0		
3			18"		2'-9"	1.1		
4		2'-6"	21"	X	3'-0"	1.3		
5				X OR Y				
6				Y				
7	2'-6"	2'-0"	24"	X	3'-3"	1.4		
8		2'-6"	X OR Y					
9	3'-0"	2'-0"	27"		3'-6"	1.5		
10		2'-6"			1.7			
11	3'-6"	2'-0"	30"	X	3'-10"	1.8	0.4	
12		2'-6"			2.0	4'-1"	1.9	0.3
13		2'-0"			33"		2.0	
14		2'-6"			36"	2.1		
15	4'-0"	2'-0"	42"		4'-4"	2.3	0.4	
16		2'-6"			2.5			
17	4'-6"	2'-0"	48"		4'-11"	2.7		
18		2'-6"			2.9			
19	5'-0"	2'-0"	48"		5'-5"	3.2		
20		2'-6"						

DIMENSIONS AND ESTIMATE OF QUANTITIES
(SAG CONDITION)

INLET SIZE ④			MAX. PIPE DIA.	LOCATION	Z ①	CONCRETE					
NO. ⑥	X	Y				CU. YD. ①②	Q ③				
21	4'-11"	2'-0"	12"	X OR Y	2'-2"	1.4	0.4				
22			15"		2'-5"	1.5					
23			18"		2'-9"	1.7					
24		2'-6"	21"	X	3'-0"	1.9					
25				X OR Y							
26				Y							
27		2'-6"	2'-0"	24"	X	3'-3"			2.0		
28			2'-6"	X OR Y							
29		2'-0"	2'-0"	27"	X	3'-6"			2.1		
30			2'-6"			30"			3'-10"		2.3
31			2'-6"			33"			4'-1"		2.2
32			2'-0"			36"			4'-4"		2.4
33	2'-6"	2'-0"	42"		4'-11"	2.5					
34		2'-6"			2.8						
35	2'-0"	2'-0"	48"		5'-5"	3.0					
36		2'-6"									
37	2'-0"	2'-0"	48"		5'-5"	3.0					
38		2'-6"									
39	2'-6"										

~ NOTES ~

- ① BASED ON "Z" AS EQUAL TO D+12" .
- ② SEE REFERENCE CHART FOR QUANTITIES TO DEDUCT FOR PIPE.
- ③ Q = CU. YDS. PER FT. INCREASE OR DECREASE WHEN "Z" VARIES.
- ④ SEE CUR. STD. DWG. **RDB-030** FOR DIMENSIONS.
- 5. SEE CUR. STD. DWGS. **RDB-034** AND **RDB-035** 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 16". FOLLOWING THIS IS A NUMBER AND A BOX HEIGHT. USE THIS NUMBER WITH THIS CHART.

REFERENCE CHART
(GRADE CONDITION)

DIA. OF PIPE	D.B.I. TYPE 16		CONCRETE TO DEDUCT FOR EACH PIPE CU. YDS.
	PIPE ON "X" SIDE OF INLET	PIPE ON "Y" SIDE OF INLET	
0			----
12"	2'-3"	2'-0"	0.1
15"-18"			
21"			
24"	2'-6"	2'-6"	0.2
27"	3'-0"		
30"-33"	3'-6"	----	0.3
36"	4'-0"		0.4
42"	4'-6"		0.5
48"	5'-0"		

REFERENCE CHART
(SAG CONDITION)

DIA. OF PIPE	D.B.I. TYPE 16		CONCRETE TO DEDUCT FOR EACH PIPE CU. YDS.
	PIPE ON "X" SIDE OF INLET	PIPE ON "Y" SIDE OF INLET	
0			----
12"	4'-11"	2'-0"	0.1
15"-18"			
21"			
24"			
27"	2'-6"	2'-6"	0.2
30"-33"			
36"	----	0.3	
42"			0.4
48"			0.5

USE WITH CUR. STD. DWGS.
RDI-200 RDB-014 RDB-030
RDB-031 RDB-032 RDB-034
RDB-035

KENTUCKY	
DEPARTMENT OF HIGHWAYS	
DROP BOX INLET	
TYPE 16	
(DIMENSIONS & ESTIMATE OF QUANTITIES)	
STANDARD DRAWING NO. RDB-033-03	
SUBMITTED <i>[Signature]</i>	12-01-15
DESIGNED BY	DATE
APPROVED <i>[Signature]</i>	12-01-15
STATE HIGHWAY ENGINEER	DATE