

DIMENSIONS AND ESTIMATE OF QUANTITIES

NO.	INLET SIZE		PIPE		④ H	CONCRETE CUBIC YARDS	⑥ Q	REINF. STEEL LBS.
	X	Y	MAX. DIA.	SIDE				
1	4'-6"	3'-0"	42"	X	5'-1/2"	4.3	0.4	240
2		3'-6"				4.7	0.5	252
3		4'-0"				5.0		348
4	5'-0"	4'-6"	48"	X OR Y	5'-7"	5.3	0.5	365
5		3'-0"				4.9		255
6		3'-6"				5.2		268
7	5'-6"	4'-0"	54"	X	6'-1 1/2"	5.6	0.6	372
8		4'-6"				5.9		390
9		5'-0"				6.3		416
10	6'-0"	3'-0"	60"	X	6'-8"	5.4	0.5	262
11		3'-6"				5.8		276
12		4'-0"				6.2		388
13	6'-0"	4'-6"	60"	X OR Y	6'-8"	6.6	0.6	407
14		5'-0"				7.0		434
15		5'-6"				7.4		453
16	6'-0"	3'-0"	60"	X	6'-8"	6.0	0.5	278
17		3'-6"				6.4		292
18		4'-0"				6.8		412
19	6'-0"	4'-6"	60"	X OR Y	6'-8"	7.3	0.6	432
20		5'-0"				7.7		460
21		5'-6"				8.1		480
22	6'-0"	8.5	508					

BILL OF REINFORCEMENT

NUMBER 5 REINFORCEMENT BARS

MARK	NO.	LGTH.		K	MARK	NO.	LGTH.		K	MARK	NO.	LGTH.		K	MARK	NO.	LGTH.		K																
		①	FT.				IN.	①				FT.	IN.				①	FT.		IN.	①	FT.	IN.												
4'-6" x 3'-0"																				5'-0" x 3'-6"				5'-6" x 3'-6"				5'-6" x 5'-6"				6'-0" x 4'-6"			
A	18	3	10	2	4	A	20	3	10	2	4	A	20	3	10	2	4	A	24	3	10	2	4	A	24	3	10	2	4						
B	4	8	0			B	4	8	6			B	4	8	6			B	4	10	6			B	4	9	6								
C	12	2	5	0	11	C	14	2	8	1	2	C	14	2	11	1	5	C	22	2	11	1	5	C	18	3	2	1	8						
D	10	4	0			D	10	4	6			D	10	4	6			D	10	6	6			D	10	5	6								
E	4	5	6			E	4	6	0			E	4	6	6			E	10	6	6			E	10	7	0								
G	4	9	6			G	4	10	0			G	4	10	6			G	4	10	6			G	4	11	0								
4'-6" x 3'-6"																				5'-0" x 4'-0"				5'-6" x 4'-0"				6'-0" x 3'-0"				6'-0" x 5'-0"			
A	18	3	10	2	4	A	22	3	10	2	4	A	22	3	10	2	4	A	22	3	10	2	4	A	26	3	10	2	4						
B	4	8	6			B	4	9	0			B	4	9	0			B	4	8	0			B	4	10	0								
C	14	2	5	0	11	C	16	2	8	1	2	C	16	2	11	1	5	B	4	8	0			C	20	3	2	1	8						
D	10	4	6			D	10	5	0			D	10	5	0			C	12	3	2	1	8	C	20	3	2	1	8						
E	4	5	6			E	10	6	0			E	10	6	6			D	10	4	0			D	10	6	0								
G	4	9	6			G	4	10	0			G	4	10	6			E	4	7	0			E	10	7	0								
4'-6" x 4'-0"																				5'-0" x 4'-6"				5'-6" x 4'-6"				6'-0" x 3'-6"				6'-0" x 5'-6"			
A	20	3	10	2	4	A	22	3	10	2	4	A	22	3	10	2	4	A	22	3	10	2	4	A	26	3	10	2	4						
B	4	9	0			B	4	9	6			B	4	9	6			B	4	8	6			B	4	10	6								
C	16	2	5	0	11	C	18	2	8	1	2	C	18	2	11	1	5	C	14	3	2	1	8	C	22	3	2	1	8						
D	10	5	0			D	10	5	6			D	10	5	6			D	10	4	6			D	10	6	6								
E	10	5	6			E	10	6	0			E	10	6	6			E	4	7	0			E	10	7	0								
G	4	9	6			G	4	10	0			G	4	10	6			G	4	11	0			G	4	11	0								
J	18	2	2	0	8	J	20	2	5	0	11	J	22	2	5	0	11	J	24	2	8	1	2	J	24	2	11	1	5						
4'-6" x 4'-6"																				5'-0" x 5'-0"				5'-6" x 5'-0"				6'-0" x 4'-0"				6'-0" x 6'-0"			
A	20	3	10	2	4	A	24	3	10	2	4	A	24	3	10	2	4	A	24	3	10	2	4	A	28	3	10	2	4						
B	4	9	6			B	4	10	0			B	4	10	0			B	4	9	0			B	4	11	0								
C	18	2	5	0	11	C	20	2	8	1	2	C	20	2	11	1	5	C	16	3	2	1	8	C	24	3	2	1	8						
D	10	5	6			D	10	6	0			D	10	6	0			D	10	5	0			D	10	7	0								
E	10	5	6			E	10	6	0			E	10	6	6			E	10	7	0			E	10	7	0								
G	4	9	6			G	4	10	0			G	4	10	6			G	4	11	0			G	4	11	0								
J	18	2	5	0	11	J	20	2	8	1	2	J	22	2	8	1	2	J	24	2	2	0	8	J	24	2	11	1	5						
5'-0" x 3'-0"																				5'-6" x 3'-0"															
A	20	3	10	2	4	A	20	3	10	2	4																								
B	4	8	0			B	4	8	0																										
C	12	2	8	1	2	C	12	2	11	1	5																								
D	10	4	0			D	10	4	0																										
E	4	6	0			E	4	6	6																										
G	4	10	0			G	4	10	6																										

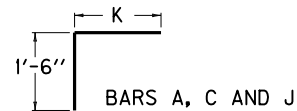
DIA. OF PIPE	D.B.I. TYPE 7		CONCRETE TO DEDUCT FOR EACH PIPE CUBIC YARDS
	PIPE ON "X" SIDE OF INLET	PIPE ON "Y" SIDE OF INLET	
0			—
12"	⑤	3'-0"	0.1
15"-18"			
21"-24"			
27"			
30"-33"			
36"			
42"	4'-6"	4'-6"	0.4
48"	5'-0"	5'-0"	0.5
54"	5'-6"	5'-6"	0.6
60"	6'-0"	6'-0"	0.7

NOTES

- ④ BASED ON H AS EQUAL TO D+T+1'-2".
- ⑤ FOR PIPE SIZES LESS THAN 42" USE APPLICABLE CURRENT RDB-SERIES.
- ⑥ Q=CUBIC YARDS OF CONCRETE PER FOOT INCREASE OR DECREASE WHEN "H" VARIES FROM D+T+1'-2".
- 7. NO DEDUCTIONS HAVE BEEN MADE FOR PIPE, SEE REFERENCE CHART FOR QUANTITIES TO DEDUCT.
- 8. "T" IS CONCRETE PIPE WALL THICKNESS OR METAL PIPE CORRUGATION DEPTH.
- 9. D=INSIDE DIAMETER OF PIPE.
- 10. A, B AND G BARS SPACED 1'-0" O.C., C AND J BARS SPACED 6" O.C., ALL OTHER BARS SPACED AS SHOWN.

~ BAR NOTES ~

- ① NUMBER OF BARS IN ONE D.B.I. TYPE 7.
- 2. DIMENSIONS ARE O. TO O. OF BARS.
- 3. ALL BARS ARE STRAIGHT EXCEPT THOSE SHOWN BELOW.



BENT BAR SHAPES

USE WITH CUR. STD. DWG. RDB-007

KENTUCKY	
DEPARTMENT OF HIGHWAYS	
DROP BOX INLET	
TYPE 7	
(DIMENSION & STEEL CHARTS)	
STANDARD DRAWING NO. RDB-008-03	
SUBMITTED: <i>John B. Sackett</i>	12-1-99
<small>DIRECTOR DIVISION OF DESIGN</small>	<small>DATE</small>
APPROVED: <i>J. M. Howell</i>	12-1-99
<small>STATE HIGHWAY ENGINEER</small>	<small>DATE</small>