BOX SIZES	① TABLE 1 MAXIMUM FILL HEIGHT (FEET)											
	2	3	4	5	6	8	10	12	14	16	18	20
3 X 2												
3 X 3												
4 X 2												
4 X 3												
4 X 4												
5 X 3												
5 X 4												
5 X 5												
6 X 3												
6 X 4												
6 X 5												
6 X 6												
7 X 4												
7 X 5												
7 X 6												
7 X 7												
8 X 4												
8 X 5												
8 X 6												
8 X 7												
8 X 8												
9 X 5												
9 X 6												
9 X 7												
9 X 8												
9 X 9												
10 X 5												
10 X 6												
10 X 7												
10 X 8												
10 X 9												
10 X 10												
11 X 4												
11 X 6												
11 X 8												
11 X 10												
11 X 11												
12 X 4												
12 X 6												
12 X 8												
12 X 10												
12 X 12												

BOX SIZES	② TABLE 2 MAXIMUM FILL HEIGHT (FEET)											
	2	3	4	5	6	8	10	12	14	16	18	20
3 X 2												
3 X 3												
4 X 2												
4 X 3												
4 X 4												
5 X 3												
5 X 4												
5 X 5												
6 X 3												
6 X 4												
6 X 5												
6 X 6												
7 X 4												
7 X 5												
7 X 6												
7 X 7												
8 X 4												
8 X 5												
8 X 6												
8 X 7												
8 X 8												
9 X 5												
9 X 6												
9 X 7												
9 X 8												
9 X 9												
10 X 5												
10 X 6												
10 X 7												
10 X 8												
10 X 9												
10 X 10												
11 X 4												
11 X 6												
11 X 8												
11 X 10												
11 X 11												
12 X 4												
12 X 6												
12 X 8												
12 X 10												
12 X 12												

BOX SIZES	③ TABLE 3 MAXIMUM FILL HEIGHT (FEET)													
	0	2	3	4	5	6	8	10	12	14	16	18	20	22
3 X 2														
3 X 3														
4 X 2														
4 X 3														
4 X 4														
5 X 3														
5 X 4														
5 X 5														
6 X 3														
6 X 4														
6 X 5														
6 X 6														
7 X 4														
7 X 5														
7 X 6														
7 X 7														
8 X 4														
8 X 5														
8 X 6														
8 X 7														
8 X 8														
9 X 5														
9 X 6														
9 X 7														
9 X 8														
9 X 9														
10 X 5														
10 X 6														
10 X 7														
10 X 8														
10 X 9														
10 X 10														
11 X 4														
11 X 6														
11 X 8														
11 X 10														
11 X 11														
12 X 4														
12 X 6														
12 X 8														
12 X 10														
12 X 12														

BOX SIZES	TABLE 1 ④ LESS THAN 2' FILL	TABLE 2 ⑤ LESS THAN 2' FILL
3 X 2		
3 X 3		
4 X 2		
4 X 3		
4 X 4		
5 X 3		
5 X 4		
5 X 5		
6 X 3		
6 X 4		
6 X 5		
6 X 6		
7 X 4		
7 X 5		
7 X 6		
7 X 7		
8 X 4		
8 X 5		
8 X 6		
8 X 7		
8 X 8		
9 X 5		
9 X 6		
9 X 7		
9 X 8		
9 X 9		
10 X 5		
10 X 6		
10 X 7		
10 X 8		
10 X 9		
10 X 10		
11 X 4		
11 X 6		
11 X 8		
11 X 10		
11 X 11		
12 X 4		
12 X 6		
12 X 8		
12 X 10		
12 X 12		

~ NOTES ~

① HS 25 LIVE LOAD + EARTH DEAD LOAD, AASHTO M259 OR ASTM C789.
② INTERSTATE LIVE LOAD + EARTH DEAD LOAD, AASHTO M259 OR ASTM C789.
③ EARTH DEAD LOAD, AASHTO M259 OR ASTM C789.
④ HS 20 LOADING, AASHTO M273 OR ASTM C850.
⑤ INTERSTATE LOADING, AASHTO M273 OR ASTM C850.

KENTUCKY
DEPARTMENT OF HIGHWAYS

FILL HEIGHTS FOR PRECAST REINF. CONC. BOX CULVERTS

STANDARD DRAWING NO. RDI-100-05

SUBMITTED William S. Hulet — DIRECTOR DIVISION OF DESIGN — 12-01-15 DATE

APPROVED — STATE HIGHWAY ENGINEER — 12-01-15 DATE