5' X 4'

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
A1	5	2	7	3		
A2	5	2	12	11		
C1	4	1	10	5		
C2	4	1	14	1		
C3	4	1	17	8		
C4	4	1	21	4		
C5	4	1	21	9		
E1	5	2	14	10	11	10
E2	5	2	15	4	12	4
F	4	12	1	3	0	6
G1	4	1	11	6		
G2	4	2	14	4		
G3	4	2	17	2		
G4	4	3	20	0		
H	4	11	8	4	6	8
K1	4	1	2	5		
K2	4	1	4	4		
K3	4	1	6	2		
K4	4	1	6	5		
N1	4	3	6	5		
N2	4	3	20	8		
Q	4	2	5	8		
R	4	6	1	3		
S1	5	2	1	0		
S2	5	2	2	4		
S3	5	2	3	10		
S4	5	2	5	2		
S5	5	2	6	7		
S6	5	2	8	0		
S7	5	2	9	1		
T1	5	2	1	0		
T2	5	2	1	9		
T3	5	2	2	5		
T4	5	2	3	2		
T5	5	2	3	10		
T6	5	2	4	7		
T7	5	2	5	3		
T8	5	2	6	0		
T9	5	2	6	4		
V1	5	2	3	8	2	5
V2	5	2	4	3	3	0
V3	5	2	4	10	3	7
V4	5	2	5	4	4	1
V5	5	2	5	11	4	8
V6	5	2	6	6	5	3
V7	5	10	6	9	5	6
W1	5	2	3	10	2	7
W2	5	2	4	10	3	7
W3	5	2	5	11	4	8
W4	5	1	7	0	5	9

5' X 5'

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
A1	5	2	8	5		
A2	5	2	15	0		
C1	4	1	10	5		
C2	4	1	14	1		
C3	4	1	17	10		
C4	4	1	21	6		
C5	4	2	23	9		
E1	5	2	14	10	11	0
E2	5	2	15	4	12	4
F	4	12	1	3	0	6
G1	4	2	13	2		
G2	4	2	16	1		
G3	4	2	19	0		
G4	4	3	22	0		
H	4	12	9	4	7	8
K1	4	1	2	6		
K2	4	1	4	5		
K3	4	1	6	4		
K4	4	2	7	5		
N1	4	3	7	5		
N2	4	3	23	9		
Q	4	2	5	8		
R	4	6	1	3		
S1	5	2	1	0		
S2	5	2	2	4		
S3	5	2	3	10		
S4	5	2	5	2		
S5	5	2	6	7		
S6	5	2	8	0		
S7	5	2	9	1		
T1	5	2	1	0		
T2	5	2	1	9		
T3	5	2	2	5		
T4	5	2	3	2		
T5	5	2	3	10		
T6	5	2	4	7		
T7	5	2	5	3		
T8	5	2	6	0		
T9	5	2	6	4		
V1	5	2	4	3	3	0
V2	5	2	4	9	3	6
V3	5	2	5	4	4	1
V4	5	2	5	10	4	7
V5	5	2	6	5	5	2
V6	5	2	6	11	5	8
V7	5	2	7	6	6	3
V8	5	10	7	9	6	6
W1	5	2	4	4	3	1
W2	5	2	5	5	4	2
W3	5	2	6	5	5	2

5' X 5' (CONTINUED)

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
W4	5	2	7	6	6	3

6' X 3'

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
A1	5	2	6	3		
A2	5	2	11	3		
C1	4	1	12	4		
C2	4	1	16	10		
C3	4	1	19	5		
C4	4	1	21	9		
E1	5	2	17	1	14	1
E2	5	2	17	7	14	7
F	4	15	1	3	0	6
G1	4	2	14	7		
G2	4	2	17	4		
G3	4	3	20	0		
H	4	11	7	6	5	10
K1	4	1	2	6		
K2	4	1	4	5		
K3	4	1	5	6		
N1	4	3	5	6		
N2	4	3	21	9		
Q	4	2	6	10		
R	4	8	1	4		
S1	5	2	1	3		
S2	5	2	2	8		
S3	5	2	4	0		
S4	5	2	5	5		
S5	5	2	6	10		
S6	5	2	8	3		
S7	5	2	9	8		
S8	5	2	10	9		
T1	5	2	1	6		
T2	5	2	2	2		
T3	5	2	2	11		
T4	5	2	3	7		
T5	5	2	4	4		
T6	5	2	5	0		
T7	5	2	5	9		
T8	5	2	6	5		
T9	5	2	7	2		
T10	5	2	7	6		
V1	5	2	3	3	2	0
V2	5	2	3	9	2	6
V3	5	2	4	4	3	1
V4	5	2	4	11	3	8
V5	5	2	5	5	4	2
V6	5	12	5	10	4	7
W1	5	2	3	4	2	1

6' X 3' (CONTINUED)

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
W2	5	2	4	5	3	2
W3	5	2	5	6	4	3

6' X 4'

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
A1	5	2	7	5		
A2	5	2	13	3		
C1	4	1	12	4		
C2	4	1	16	0		
C3	4	1	19	8		
C4	4	1	23	3		
C5	4	1	23	8		
E1	5	2	17	1	14	1
E2	5	2	17	7	14	7
F	4	15	1	3	0	6
G1	4	1	13	8		
G2	4	2	16	5		
G3	4	2	19	3		
G4	4	3	22	0		
H	4	12	8	6	6	10
K1	4	1	2	7		
K2	4	1	4	6		
K3	4	1	6	4		
K4	4	1	6	7		
N1	4	3	6	7		
N2	4	3	23	9		
Q	4	2	6	10		
R	4	8	1	4		
S1	5	2	1	3		
S2	5	2	2	8		
S3	5	2	4	0		
S4	5	2	5	5		
S5	5	2	6	10		
S6	5	2	8	3		
S7	5	2	9	8		
S8	5	2	10	9		
T1	5	2	1	6		
T2	5	2	2	2		
T3	5	2	2	11		
T4	5	2	3	7		
T5	5	2	4	4		
T6	5	2	5	0		
T7	5	2	5	9		
T8	5	2	6	5		
T9	5	2	7	2		
T10	5	2	7	6		
V1	5	2	3	8	2	5
V2	5	2	4	3	3	0
V3	5	2	4	9	3	6

6' X 4' (CONTINUED)

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
V4	5	2	5	4	4	1
V5	5	2	5	11	4	8
V6	5	2	6	5	5	2
V7	5	12	6	10	5	7
W1	5	2	3	10	2	7
W2	5	2	4	11	3	8
W3	5	2	5	11	4	8
W4	5	1	7	0	5	9

6' X 5'

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
A1	5	2	8	7		
A2	5	2	15	3		
C1	4	1	12	4		
C2	4	1	16	0		
C3	4	1	19	8		
C4	4	1	23	4		
C5	4	2	25	9		
E1	5	2	17	1	14	1
E2	5	2	17	7	14	7
F	4	15	1	3	0	6
G1	4	2	15	4		
G2	4	2	18	3		
G3	4	2	21	1		
G4	4	3	24	0		
H	4	13	9	6	7	10
K1	4	1	2	7		
K2	4	1	4	6		
K3	4	1	6	5		
K4	4	2	7	7		
N1	4	3	7	7		
N2	4	3	25	9		
Q	4	2	6	10		
R	4	8	1	4		
S1	5	2	1	3		
S2	5	2	2	8		
S3	5	2	4	0		
S4	5	2	5	5		
S5	5	2	6	10		
S6	5	2	8	3		
S7	5	2	9	8		
S8	5	2	10	9		
T1	5	2	1	6		
T2	5	2	2	2		
T3	5	2	4	0		
T4	5	2	5	5		
T5	5	2	6	10		
T6	5	2	8	3		
T7	5	2	9	8		
T8	5	2	10	9		
T9	5	2	7	2		
T10	5	2	7	6		
V1	5	2	3	8	2	5
V2	5	2	4	3	3	0
V3	5	2	4	9	3	6
V4	5	2	5	4	4	1
V5	5	2	5	11	4	8
V6	5	2	6	5	5	2
V7	5	12	6	10	5	7
W1	5	2	3	10	2	7
W2	5	2	4	11	3	8
W3	5	2	5	11	4	8
W4	5	1	7	0	5	9

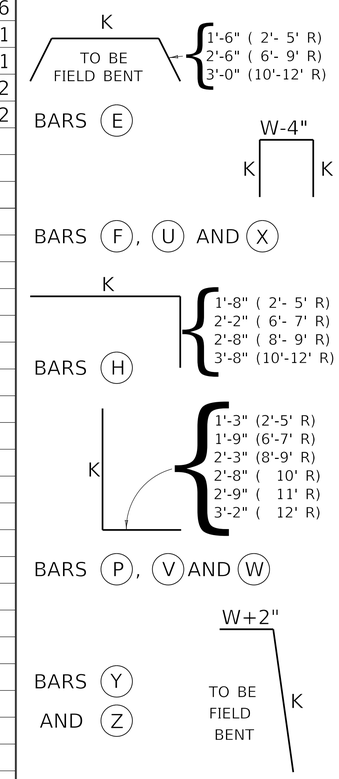
6' X 5' (CONTINUED)

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
T8	5	2	6	5		
T9	5	2	7	2		
T10	5	2	7	5		
V1	5	2	4	2	2	11
V2	5	2	4	9	3	6
V3	5	2	5	3	4	0
V4	5	2	5	10	4	7
V5	5	2	6	4	5	1
V6	5	2	6	11	5	8
V7	5	2	7	5	6	2
V8	5	12	7	9	6	6
W1	5	2	4	4	3	1
W2	5	2	5	4	4	1
W3	5	2	6	5	5	2
W4	5	2	7	5	6	2

NOTES

1. NUMBER OF BARS IN ONE HEADWALL.
2. DIMENSIONS ARE 0. TO 0. OF BARS.
3. ALL BARS ARE STRAIGHT EXCEPT THOSE SHOWN BELOW.
4. R = BOX OR PIPE RISE
5. W = WING WALL WIDTH

BENT BAR SHAPES



KENTUCKY DEPARTMENT OF HIGHWAYS

BILL OF REINFORCEMENT
5' X 4' – 6' X 5' HEADWALLS
PRECAST BOX CULVERTS
45° SKEW

STANDARD DRAWING NO. RDH-1350-03

SUBMITTED _____ DIRECTOR DIVISION OF DESIGN _____ DATE

APPROVED _____ STATE HIGHWAY ENGINEER _____ DATE