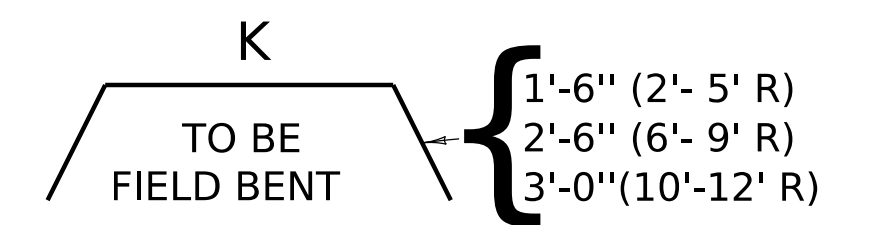


MARK	SIZE	NO	LGTH		K		MARK	SIZE	NO	LGTH		K	
			① FT	IN	FT	IN				① FT	IN	FT	IN
15'-4" X 9'-3"						15'-4" X 9'-3" (CONT'D)							
A1	5	2	12	4			S6	5	2	2	7		
A2	5	2	13	6			S7	5	2	2	11		
B1	5	4	4	8			S8	5	2	3	3		
B2	5	4	5	7			S9	5	2	3	6		
B3	5	4	6	7			S10	5	2	3	10		
B4	5	4	7	6			S11	5	2	4	1		
B5	5	4	8	5			S12	5	2	4	5		
B6	5	4	9	4			S13	5	2	4	8		
B7	5	12	9	11			S14	5	2	5	0		
C1	4	2	8	0			S15	5	2	5	2		
C2	4	2	10	1			T1	5	2	4	4		
C3	4	2	12	3			T2	5	2	7	8		
C4	4	2	14	4			T3	5	2	11	0		
C5	4	2	16	6			T4	5	2	14	5		
C6	4	8	17	6			T5	5	2	16	5		
E1	5	2	22	9	17	9							
E2	5	2	23	4	18	4							
F	4	19	1	5	0	6							
G1	4	1	17	8									
G2	4	2	19	4									
G3	4	2	21	0									
G4	4	2	22	8									
G5	4	2	24	4									
G6	4	3	26	0									
H	4	14	13	11	11	3							
J1	5	4	4	8									
J2	5	4	5	9									
J3	5	4	6	9									
J4	5	4	7	10									
J5	5	4	8	10									
J6	5	2	9	11									
K1	4	2	2	5									
K2	4	2	4	4									
K3	4	2	6	3									
K4	4	2	8	2									
K5	4	2	10	1									
K6	4	8	10	11									
M1	4	1	2	11									
M2	4	28	4	9									
N1	4	8	11	0									
N2	4	5	16	1									
N3	4	3	17	9									
P	7	29	7	5	5	2							
Q	5	4	15	4									
R	5	16	3	4									
S1	5	2	1	1									
S2	5	2	1	5									
S3	5	2	1	9									
S4	5	2	2	0									
S5	5	2	2	4									

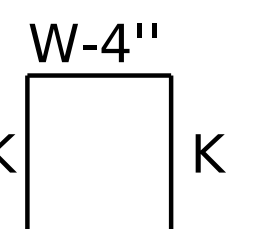
**NOTES**

- 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

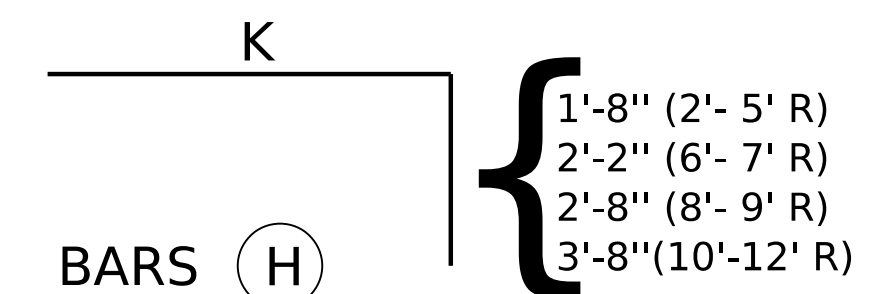
**BENT BAR SHAPES**



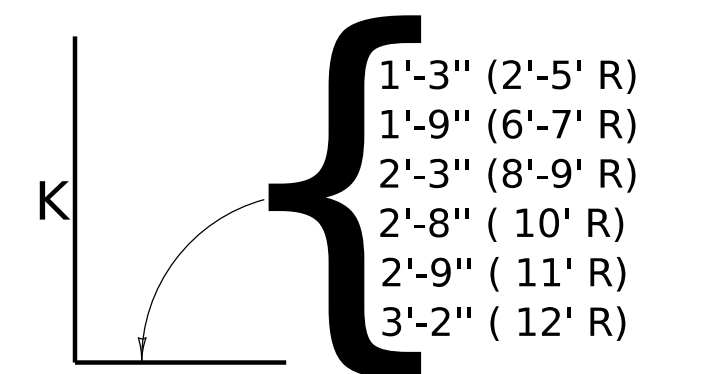
BARS (E)



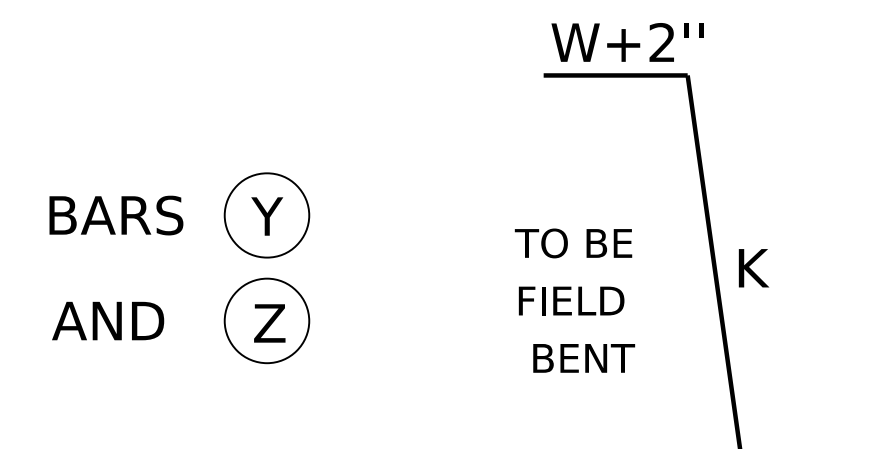
BARS (F), (U) AND (X)



BARS (H)



BARS (P), (V) AND (W)



BARS (Y) AND (Z)

KENTUCKY  
DEPARTMENT OF HIGHWAYS  
BILL OF REINFORCEMENT  
15'-4" x 9'-3"  
STEEL PIPE ARCHES  
15° SKEW

STANDARD DRAWING NO. RDH-445-03

SUBMITTED \_\_\_\_\_ DIRECTOR DIVISION OF DESIGN \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED \_\_\_\_\_ STATE HIGHWAY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_