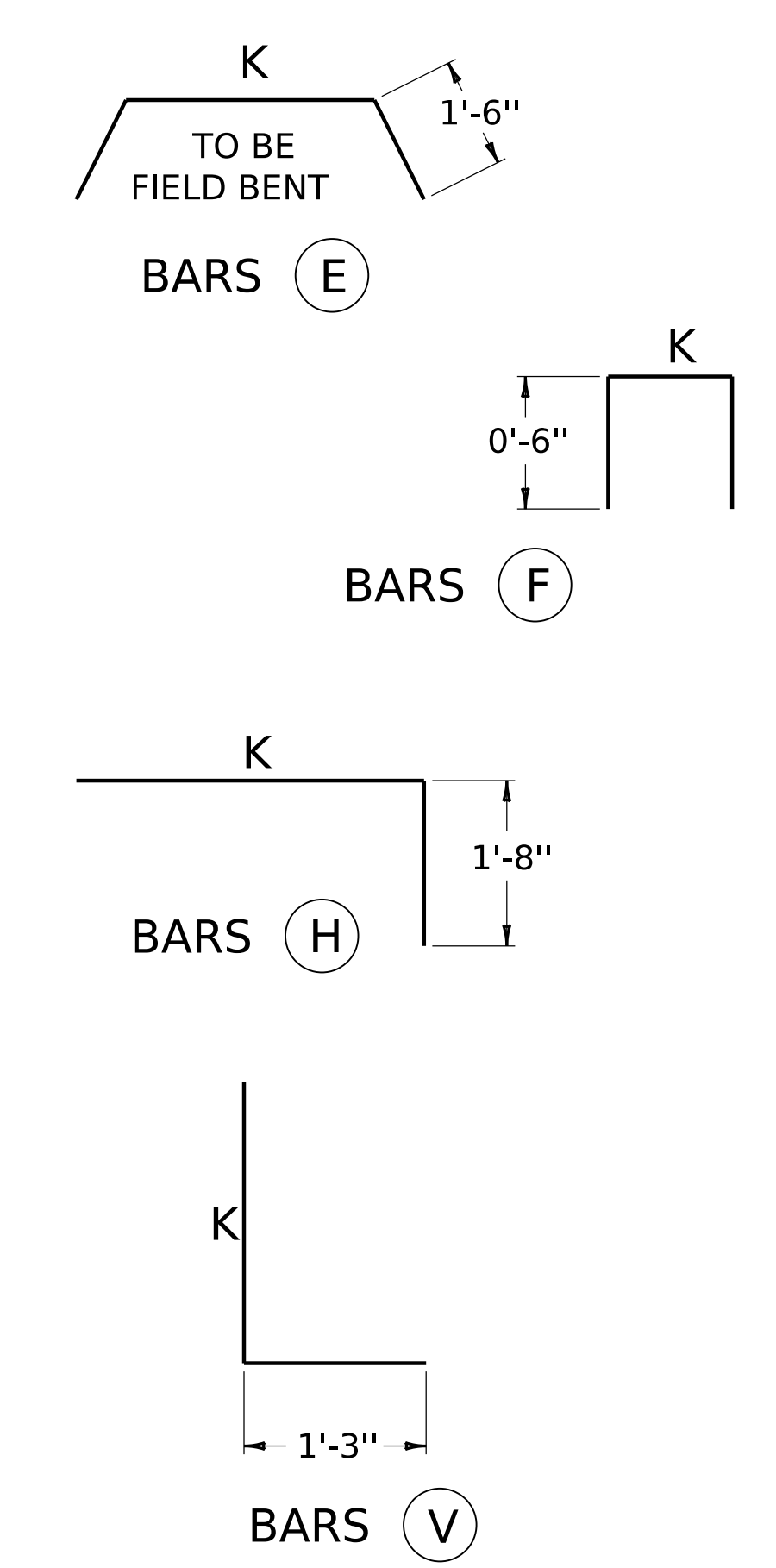


MARK SIZE	NO	LGTH		K		MARK SIZE	NO	LGTH		K		MARK SIZE	NO	LGTH		K		MARK SIZE	NO	LGTH		K					
		①	FT	IN	FT			IN	①	FT	IN			FT	IN	①	FT			IN	FT	IN	①	FT	IN	FT	IN
<b>DOUBLE 30"</b>						<b>42"</b>						<b>TRIPLE 30"</b>						<b>42"</b>									
A	5	4	4	8		A	5	4	6	2		A	5	4	4	8		A	5	4	6	2					
C1	4	2	2	4		C1	4	2	2	9		C1	4	2	2	4		C1	4	2	2	9					
C2	4	2	4	2		C2	4	2	4	9		C2	4	2	4	2		C2	4	2	4	9					
E1	5	2	10	6	7	6	E1	5	2	12	10	9	10	E1	5	2	14	7	11	7	E1	5	2	18	1	15	1
E2	5	2	10	8	7	8	E2	5	2	13	0	10	0	E2	5	2	14	9	11	9	E2	5	2	18	3	15	3
F	4	8	1	3	0	4	F	4	10	1	3	0	4	F	4	12	1	3	0	4	F	4	15	1	3	0	4
G1	4	2	7	8			G1	4	3	11	5			G1	4	2	11	10			G1	4	3	16	8		
G2	4	3	10	0			G2	4	3	13	9			G2	4	3	14	1			G2	4	3	19	1		
H	4	6	5	1	3	5	H	4	7	6	3	4	7	H	4	8	5	1	3	5	H	4	10	6	3	4	7
N	4	6	4	2			N	4	6	5	6			N	4	6	4	2			N	4	6	5	6		
Q	4	2	7	1			Q	4	2	9	2			Q	4	2	11	1			Q	4	2	14	5		
R	4	8	0	8			R	4	10	0	9			R	4	12	0	8			R	4	15	0	9		
V1	5	4	3	1	1	10	V1	5	4	3	6	2	3	V1	5	4	3	1	1	10	V1	5	4	3	6	2	3
V2	5	4	4	1	2	10	V2	5	4	4	6	3	3	V2	5	4	4	1	2	10	V2	5	4	4	6	3	3
V3	5	4	4	1	2	10	V3	5	4	5	6	4	3	V3	5	4	4	1	2	10	V3	5	4	5	6	4	3
<b>36"</b>						<b>48"</b>						<b>36"</b>						<b>48"</b>									
A	5	4	5	5			A	5	4	6	11			A	5	4	5	5			A	5	4	6	11		
C1	4	2	1	7			C1	4	2	1	10			C1	4	2	1	7			C1	4	2	1	10		
C2	4	2	3	8			C2	4	2	3	10			C2	4	2	3	8			C2	4	2	3	10		
C3	4	2	4	10			C3	4	2	5	10			C3	4	2	4	10			C3	4	2	5	10		
E1	5	2	11	8	8	8	E1	5	2	6	2			E1	5	2	16	4	13	4	E1	5	2	6	2		
E2	5	2	11	10	8	10	E2	5	2	14	0	11	0	E2	5	2	16	6	13	6	E2	5	2	19	10	16	10
F	4	9	1	3	0	4	F	4	11	1	3	0	4	F	4	13	1	3	0	4	F	4	17	1	3	0	4
G1	4	3	9	7			G1	4	1	11	0			G1	4	3	14	4			G1	4	1	16	9		
G2	4	3	12	0			G2	4	3	13	3			G2	4	3	16	8			G2	4	3	19	0		
H	4	7	5	8	4	0	H	4	3	15	7			H	4	9	5	8	4	0	H	4	3	21	5		
N	4	6	4	10			H	4	9	16	10	5	2	N	4	6	4	10			N	4	12	6	11	5	3
Q	4	2	8	2			N	4	6	6	2			Q	4	2	12	8			Q	4	6	6	2		
R	4	9	0	8			Q	4	2	10	4			R	4	13	0	8			R	4	6	6	2		
V1	5	4	3	4	2	1	R	4	11	0	9			V1	5	4	3	4	2	1	V1	5	4	3	9	2	6
V2	5	4	4	4	3	1	V1	5	4	3	9	2	6	V2	5	4	4	4	3	1	V2	5	4	4	9	3	6
V3	5	2	5	4	4	1	V2	5	4	4	9	3	6	V3	5	2	5	4	4	1	V3	5	4	5	9	4	6
							V3	5	4	5	9	4	6														

**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.

**BENT BAR SHAPES**



(USE WITH CURRENT STD. DWG. NO. RDH-510 OR RDH-520)

**KENTUCKY  
DEPARTMENT OF HIGHWAYS**

*BILL OF REINFORCEMENT  
30" TO 48" DOUBLE & TRIPLE  
CIRCULAR PIPE HEADWALLS  
0° SKEW*

**STANDARD DRAWING NO. RDH-524-03**

SUBMITTED \_\_\_\_\_ DIRECTOR DIVISION OF DESIGN \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED \_\_\_\_\_ STATE HIGHWAY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_