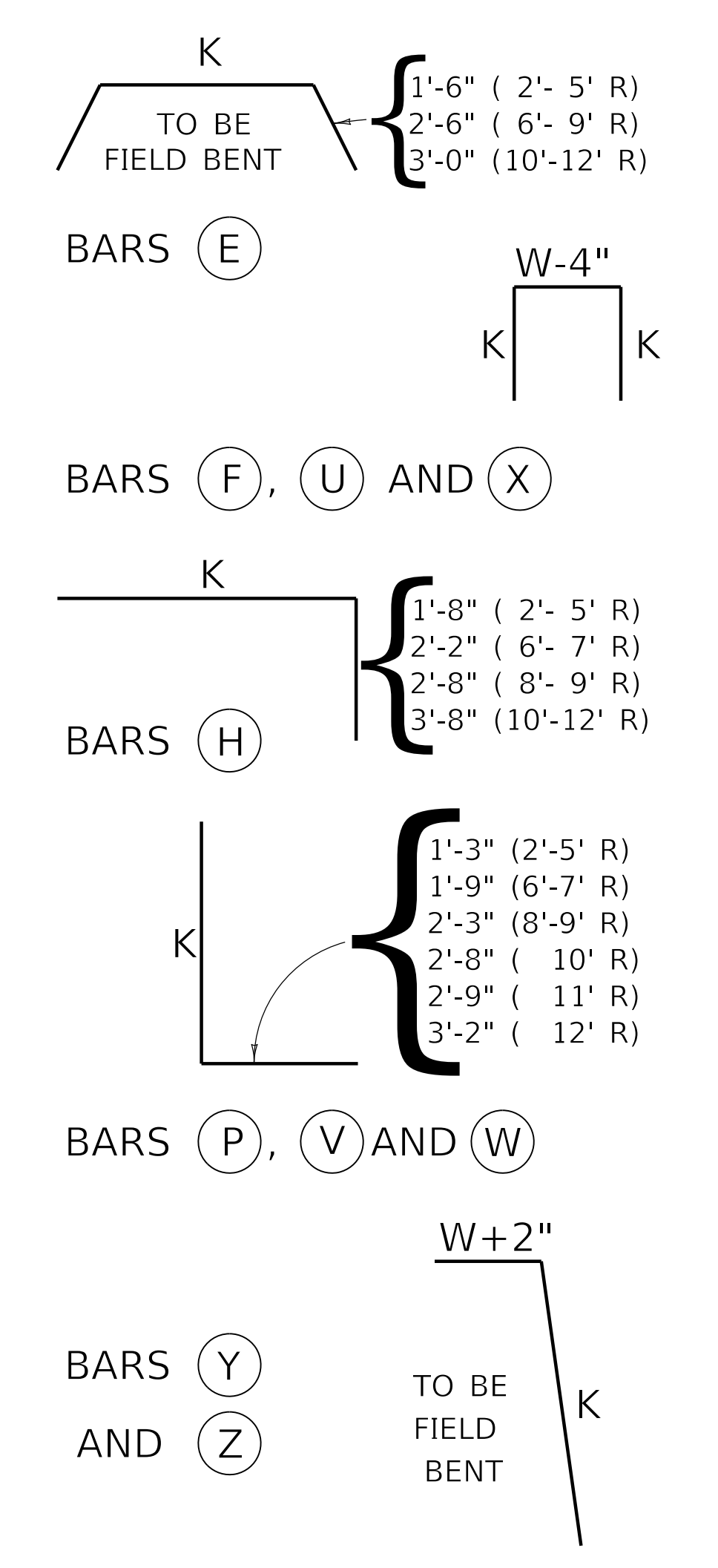


| MARK | SIZE | NO LGTH K | | | | MARK | SIZE | NO LGTH K | | | | MARK | SIZE | NO LGTH K | | | | MARK | SIZE | NO LGTH K | | | | | | | | | | |
|----------|------|-----------|----|----|----------------------|------|------|-----------|----|----------------------|----|------|------|-----------|----------------------|----|----|------|------|----------------------|----|-----|---|----|----|----|----|----|---|----|
| | | ① | FT | IN | FT | | | IN | ① | FT | IN | | | FT | IN | ① | FT | | | IN | FT | IN | ① | FT | IN | FT | IN | | | |
| 12' X 4' | | | | | 12' X 4' (CONTINUED) | | | | | 12' X 6' (CONTINUED) | | | | | 12' X 8' (CONTINUED) | | | | | 12' X 8' (CONTINUED) | | | | | | | | | | |
| A1 | 5 | 2 | 8 | 2 | V3 | 5 | 2 | 5 | 3 | 4 | 0 | N2 | 4 | 5 | 21 | 7 | C5 | 4 | 2 | 23 | 3 | T3 | 5 | 2 | 4 | 1 | | | | |
| A2 | 5 | 2 | 10 | 11 | V4 | 5 | 2 | 6 | 1 | 4 | 10 | N3 | 4 | 2 | 23 | 8 | C6 | 4 | 2 | 26 | 0 | T4 | 5 | 2 | 5 | 6 | | | | |
| C1 | 4 | 1 | 12 | 7 | V5 | 5 | 2 | 6 | 10 | 5 | 7 | P | 5 | 33 | 5 | 3 | 3 | 6 | C7 | 4 | 6 | 26 | 3 | T5 | 5 | 2 | 6 | 11 | | |
| C2 | 4 | 1 | 15 | 2 | V6 | 5 | 11 | 7 | 3 | 6 | 0 | Q | 5 | 5 | 13 | 8 | E1 | 5 | 2 | 24 | 5 | 19 | 5 | T6 | 5 | 2 | 8 | 4 | | |
| C3 | 4 | 1 | 17 | 9 | W1 | 5 | 2 | 3 | 10 | 2 | 7 | R | 5 | 14 | 3 | 10 | E2 | 5 | 2 | 25 | 0 | 20 | 0 | T7 | 5 | 2 | 9 | 9 | | |
| C4 | 4 | 1 | 20 | 5 | W2 | 5 | 2 | 4 | 11 | 3 | 8 | S1 | 5 | 2 | 1 | 0 | F | 4 | 20 | 1 | 5 | 0 | 6 | T8 | 5 | 2 | 11 | 1 | | |
| C5 | 4 | 1 | 20 | 8 | W3 | 5 | 2 | 6 | 0 | 4 | 9 | S2 | 5 | 2 | 1 | 8 | G1 | 4 | 1 | 20 | 0 | T9 | 5 | 2 | 12 | 7 | | | | |
| E1 | 5 | 2 | 22 | 5 | 19 | 5 | | | | | | S3 | 5 | 2 | 2 | 5 | G2 | 4 | 2 | 21 | 11 | T10 | 5 | 2 | 14 | 0 | | | | |
| E2 | 5 | 2 | 22 | 9 | 19 | 9 | | | | | | S4 | 5 | 2 | 3 | 1 | G3 | 4 | 2 | 23 | 11 | T11 | 5 | 2 | 14 | 7 | | | | |
| F | 4 | 20 | 1 | 3 | 0 | 6 | | | | | | S5 | 5 | 2 | 3 | 10 | G4 | 4 | 2 | 25 | 11 | X1 | 4 | 1 | 2 | 9 | 1 | 2 | | |
| G1 | 4 | 2 | 20 | 0 | | | | | | | | S6 | 5 | 2 | 4 | 6 | G5 | 4 | 2 | 27 | 11 | X2 | 4 | 1 | 3 | 3 | 1 | 5 | | |
| G2 | 4 | 2 | 22 | 0 | | | | | | | | S7 | 5 | 2 | 5 | 3 | G6 | 4 | 3 | 30 | 0 | X3 | 4 | 1 | 3 | 7 | 1 | 7 | | |
| G3 | 4 | 2 | 24 | 0 | | | | | | | | S8 | 5 | 2 | 5 | 11 | H | 4 | 16 | 14 | 4 | 11 | 8 | X4 | 4 | 1 | 4 | 1 | 1 | 10 |
| G4 | 4 | 3 | 26 | 0 | | | | | | | | S9 | 5 | 2 | 6 | 8 | J1 | 5 | 4 | 4 | 1 | X5 | 4 | 1 | 4 | 5 | 2 | 0 | | |
| H | 4 | 14 | 9 | 4 | 7 | 8 | | | | | | S10 | 5 | 2 | 7 | 4 | J2 | 5 | 4 | 5 | 2 | X6 | 4 | 1 | 4 | 11 | 2 | 3 | | |
| K1 | 4 | 1 | 1 | 5 | | | | | | | | S11 | 5 | 2 | 8 | 0 | J3 | 5 | 4 | 6 | 2 | Z | 4 | 2 | 8 | 11 | 7 | 11 | | |
| K2 | 4 | 1 | 3 | 3 | | | | | | | | S12 | 5 | 2 | 8 | 9 | J4 | 5 | 4 | 7 | 3 | | | | | | | | | |
| K3 | 4 | 1 | 5 | 2 | | | | | | | | S13 | 5 | 2 | 9 | 5 | J5 | 5 | 4 | 8 | 4 | | | | | | | | | |
| K4 | 4 | 1 | 7 | 0 | | | | | | | | S14 | 5 | 2 | 10 | 2 | J6 | 5 | 2 | 9 | 5 | | | | | | | | | |
| K5 | 4 | 1 | 7 | 2 | | | | | | | | S15 | 5 | 2 | 10 | 5 | K1 | 4 | 2 | 1 | 6 | | | | | | | | | |
| N1 | 4 | 3 | 7 | 2 | | | | | | | | T1 | 5 | 2 | 1 | 3 | K2 | 4 | 2 | 3 | 3 | | | | | | | | | |
| N2 | 4 | 3 | 20 | 9 | | | | | | | | T2 | 5 | 2 | 2 | 8 | K3 | 4 | 2 | 5 | 3 | | | | | | | | | |
| Q | 4 | 2 | 13 | 8 | | | | | | | | T3 | 5 | 2 | 4 | 1 | K4 | 4 | 2 | 7 | 2 | | | | | | | | | |
| R | 4 | 14 | 1 | 7 | | | | | | | | T4 | 5 | 2 | 5 | 6 | K5 | 4 | 2 | 8 | 11 | | | | | | | | | |
| S1 | 5 | 2 | 1 | 4 | | | | | | | | T5 | 5 | 2 | 6 | 11 | K6 | 4 | 2 | 10 | 9 | | | | | | | | | |
| S2 | 5 | 2 | 2 | 1 | | | | | | | | T6 | 5 | 2 | 8 | 4 | K7 | 4 | 6 | 11 | 0 | | | | | | | | | |
| S3 | 5 | 2 | 2 | 9 | | | | | | | | T7 | 5 | 2 | 9 | 9 | M1 | 4 | 2 | 2 | 9 | | | | | | | | | |
| S4 | 5 | 2 | 3 | 6 | | | | | | | | T8 | 5 | 2 | 11 | 1 | M2 | 4 | 36 | 4 | 9 | | | | | | | | | |
| S5 | 5 | 2 | 4 | 2 | | | | | | | | T9 | 5 | 2 | 12 | 7 | N1 | 4 | 8 | 11 | 0 | | | | | | | | | |
| S6 | 5 | 2 | 4 | 10 | | | | | | | | T10 | 5 | 2 | 14 | 0 | N2 | 4 | 5 | 24 | 0 | | | | | | | | | |
| S7 | 5 | 2 | 5 | 7 | | | | | | | | T11 | 5 | 2 | 14 | 7 | N3 | 4 | 3 | 26 | 7 | | | | | | | | | |
| S8 | 5 | 2 | 6 | 3 | | | | | | | | G1 | 4 | 1 | 20 | 0 | P | 7 | 38 | 6 | 9 | 4 | 6 | | | | | | | |
| S9 | 5 | 2 | 7 | 0 | | | | | | | | G2 | 4 | 2 | 22 | 0 | Q | 5 | 5 | 13 | 8 | | | | | | | | | |
| S10 | 5 | 2 | 7 | 8 | | | | | | | | G3 | 4 | 2 | 23 | 11 | R | 5 | 14 | 4 | 4 | | | | | | | | | |
| S11 | 5 | 2 | 8 | 4 | | | | | | | | G4 | 4 | 2 | 26 | 0 | | | | | | | | | | | | | | |
| S12 | 5 | 2 | 9 | 0 | | | | | | | | G5 | 4 | 3 | 28 | 0 | | | | | | | | | | | | | | |
| S13 | 5 | 2 | 9 | 8 | | | | | | | | H | 4 | 15 | 11 | 10 | 9 | 8 | | | | | | | | | | | | |
| S14 | 5 | 2 | 10 | 4 | | | | | | | | J1 | 5 | 4 | 3 | 1 | A1 | 5 | 2 | 12 | 6 | S1 | 5 | 2 | 1 | 0 | | | | |
| T1 | 5 | 2 | 2 | 2 | | | | | | | | J2 | 5 | 4 | 4 | 2 | A2 | 5 | 2 | 16 | 9 | S2 | 5 | 2 | 1 | 8 | | | | |
| T2 | 5 | 2 | 3 | 7 | | | | | | | | J3 | 5 | 4 | 5 | 3 | B1 | 5 | 4 | 4 | 0 | S3 | 5 | 2 | 2 | 5 | | | | |
| T3 | 5 | 2 | 5 | 0 | | | | | | | | J4 | 5 | 4 | 6 | 4 | B2 | 5 | 4 | 4 | 9 | S4 | 5 | 2 | 3 | 10 | | | | |
| T4 | 5 | 2 | 6 | 5 | | | | | | | | J5 | 5 | 2 | 7 | 5 | B3 | 5 | 4 | 5 | 6 | S5 | 5 | 2 | 4 | 6 | | | | |
| T5 | 5 | 2 | 7 | 10 | | | | | | | | K1 | 4 | 2 | 1 | 6 | B4 | 5 | 4 | 6 | 3 | S6 | 5 | 2 | 5 | 3 | | | | |
| T6 | 5 | 2 | 9 | 3 | | | | | | | | K2 | 4 | 2 | 3 | 4 | B5 | 5 | 4 | 7 | 1 | S7 | 5 | 2 | 6 | 8 | | | | |
| T7 | 5 | 2 | 10 | 8 | | | | | | | | K3 | 4 | 2 | 5 | 2 | B6 | 5 | 4 | 7 | 10 | S8 | 5 | 2 | 7 | 4 | | | | |
| T8 | 5 | 2 | 12 | 0 | | | | | | | | K4 | 4 | 2 | 6 | 11 | B7 | 5 | 4 | 8 | 7 | S9 | 5 | 2 | 8 | 0 | | | | |
| T9 | 5 | 2 | 13 | 6 | | | | | | | | K5 | 4 | 2 | 8 | 10 | B8 | 5 | 4 | 9 | 4 | S10 | 5 | 2 | 8 | 9 | | | | |
| T10 | 5 | 2 | 14 | 5 | | | | | | | | K6 | 4 | 4 | 9 | 0 | B9 | 5 | 22 | 9 | 6 | S11 | 5 | 2 | 9 | 5 | | | | |
| V1 | 5 | 2 | 3 | 9 | 2 | 6 | | | | | | M1 | 4 | 2 | 2 | 3 | C1 | 4 | 2 | 12 | 10 | S12 | 5 | 2 | 10 | 2 | | | | |
| V2 | 5 | 2 | 4 | 6 | 3 | 3 | | | | | | M2 | 4 | 31 | 3 | 9 | C2 | 4 | 2 | 15 | 4 | S13 | 5 | 2 | 10 | 5 | | | | |
| | | | | | | | | | | | | N1 | 4 | 7 | 9 | 0 | C3 | 4 | 2 | 18 | 1 | S14 | 5 | 2 | 1 | 3 | | | | |
| | | | | | | | | | | | | C4 | 4 | 2 | 20 | 9 | C4 | 4 | 2 | 20 | 9 | T1 | 5 | 2 | 2 | 8 | | | | |

- 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

12' X 4' - 12' X 8' HEADWALLS

PRECAST BOX CULVERTS

30° SKEW

STANDARD DRAWING NO. RDH-1344-03

SUBMITTED _____ DIRECTOR DIVISION OF DESIGN _____ DATE _____

APPROVED _____ STATE HIGHWAY ENGINEER _____ DATE _____