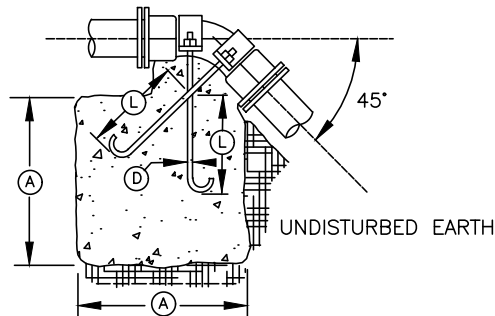
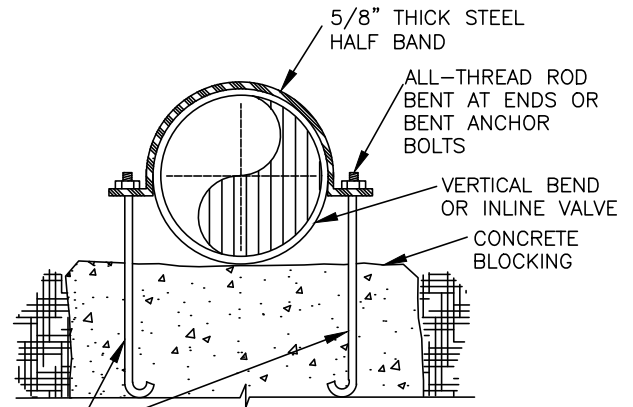


BLOCKING FOR 11-1/4°, 22-1/2° & 30° VERTICAL BENDS



BLOCKING FOR 45° VERTICAL BENDS



2 - 1/2" ϕ RODS FOR 10" SIZE AND SMALLER
2 - 1" ϕ RODS FOR LARGER THAN 10" SIZE

TYPICAL CROSS-SECTION

VERTICAL BLOCKING

| PIPE SIZE | VERT. BEND | CU.FT. | (A) | (D) | (L) |
|-----------|------------|--------|------|--------|------|
| 4" | 11-1/4° | 8 | 2.0' | 3/4" | 1.5' |
| | 22-1/2° | 11 | 2.2' | 3/4" | 2.0' |
| | 30° | 17 | 2.6' | 3/4" | 2.0' |
| | 45° | 30 | 3.1' | 3/4" | 2.0' |
| 6" | 11-1/4° | 11 | 2.2' | 3/4" | 2.0' |
| | 22-1/2° | 25 | 2.9' | 3/4" | 2.0' |
| | 30° | 41 | 3.5' | 3/4" | 2.0' |
| | 45° | 68 | 4.1' | 3/4" | 2.0' |
| 8" | 11-1/4° | 16 | 2.5' | 3/4" | 2.0' |
| | 22-1/2° | 47 | 3.6' | 3/4" | 2.5' |
| | 30° | 70 | 4.1' | 3/4" | 2.5' |
| | 45° | 123 | 5.0' | 3/4" | 2.0' |
| 12" | 11-1/4° | 32 | 3.2' | 3/4" | 2.0' |
| | 22-1/2° | 88 | 4.5' | 7/8" | 3.0' |
| | 30° | 132 | 5.1' | 7/8" | 2.5' |
| | 45° | 232 | 6.1' | 3/4" | 2.5' |
| 16" | 11-1/4° | 70 | 4.1' | 7/8" | 3.0' |
| | 22-1/2° | 184 | 5.7' | 1-1/8" | 4.0' |
| | 30° | 275 | 6.5' | 1-1/4" | 4.0' |
| | 45° | 478 | 7.8' | 1-1/8" | 4.0' |

NOTES:

1. CONCRETE BLOCKING AREA IS BASED ON 250 PSI WATER PRESSURE AND 2,500 PSI CONCRETE STRENGTH.
2. BOLTS AND NUTS NOT EMBEDDED IN CONCRETE SHALL BE CLEANED AND COATED WITH COAL TAR EPOXY.
3. POLYETHYLENE WRAP NOT SHOWN FOR CLARITY.
4. HARDWARE SHALL BE TWO CARBON STEEL HALF BANDS (5/8" THICK) EQUAL TO 595 SOCKET CLAMP FROM ANVIL INTERNATIONAL. RODS SHALL BE ALL-THREAD, BENT AT THE ENDS OR BENT ANCHOR BOLTS, WITH 12" MIN. EMBEDMENT FOR INLINE VALVES, OR AS SHOWN ON VERTICAL BLOCKING TABLE.

NO SCALE



APPROVAL

Wayne R. Hauske

PUBLIC WORKS DIRECTOR

**THRUST BLOCKING
VERTICAL BENDS**

DATE
01/21/2022

DRAWING NO.

W-8

REV: