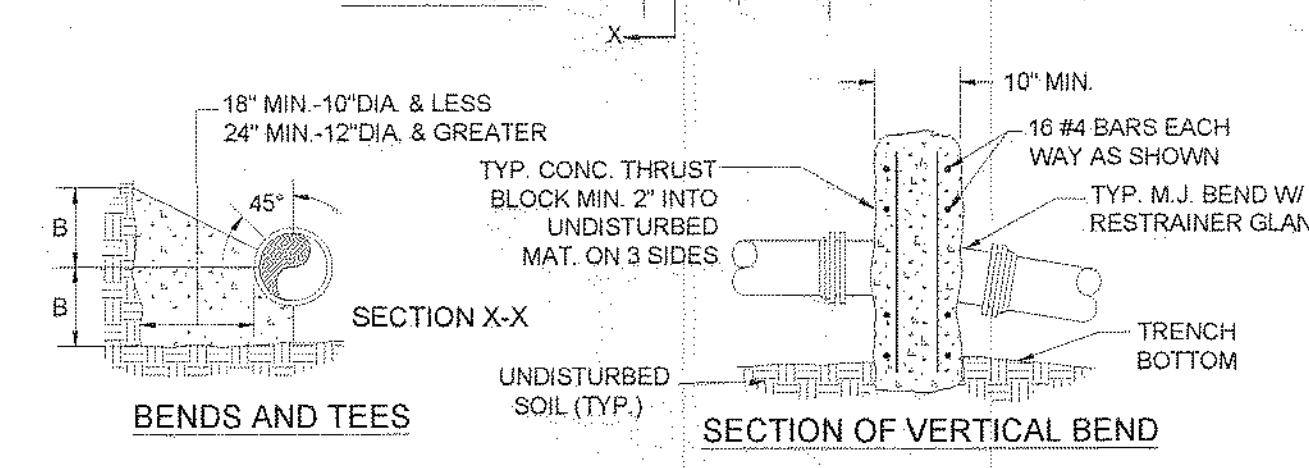


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- The image contains two technical drawings. The left drawing, titled "PLAN BENDS", shows a cross-section of a bend in a pipe. It features a central "THRUST BLOCK (TYP.)" with a stippled pattern. The distance from the center of the bend to the edge of the thrust block is labeled "6" MIN". The drawing also shows the pipe's outer diameter and the bend angle. The right drawing, titled "PLAN AND ELEVATION PLUGS", shows a cross-section of a plug. It features a central "C SQ." (center square) and a "D SQ." (diameter square). The distance from the center of the plug to the edge of the thrust block is labeled "18" MIN". The drawing also shows the plug's outer diameter and the distance from the center of the plug to the edge of the thrust block.



- | PRESSURE = 200psi<br>BEARING = 2000psf<br>FACTOR OF SAFETY = 1.5 |          |     |      |          |     |     |              |     |              |     |      |     |      |   |
|--|----------|-----|------|----------|-----|-----|--------------|-----|--------------|-----|------|-----|------|---|
| PIPE SIZE  | 90° BEND |     |      | 45° BEND |     |     | 22 1/2° BEND |     | 11 3/4° BEND |     | TEE  |     | PLUG |   |
|  | A        | B   | A    | B        | A   | B   | A            | B   | A            | B   | A    | B   | C    | D |
| 4"   | 8"       | 12" | 8"   | 8"       | 6"  | 6"  | 6"           | 6"  | 11"          | 9"  | 10"  | 6"  |      |   |
| 6"   | 18"      | 12" | 8"   | 10"      | 8"  | 8"  | 8"           | 8"  | 11"          | 10" | 12"  | 18" |      |   |
| 8"   | 18"      | 13" | 10"  | 10"      | 8"  | 8"  | 8"           | 8"  | 11"          | 12" | 12"  | 24" |      |   |
| 10"  | 20"      | 16" | 12"  | 14"      | 8"  | 12" | 8"           | 12" | 14"          | 16" | 16"  | 30" |      |   |
| 12"  | 20"      | 16" | 12"  | 14"      | 8"  | 12" | 8"           | 12" | 14"          | 16" | 16"  | 30" |      |   |
| 16"  | 26"      | 20" | 16"  | 18"      | 11" | 13" | 11"          | 13" | 18"          | 20" | 20"  | 36" |      |   |
| 24"  | 82"      | 42" | 62"  | 30"      | 44" | 22" | 22"          | 16" | 82"          | 42" | 82"  | 42" |      |   |
| 30"  | 185"     | 42" | 100" | 42"      | 52" | 24" | 40"          | 30" | 185"         | 42" | 185" | 42" |      |   |

| FACTOR OF SAFETY = 1.5 |            |          |          |              |              |                            |                           |                     |           |               |               |
|------------------------|------------|----------|----------|--------------|--------------|----------------------------|---------------------------|---------------------|-----------|---------------|---------------|
| PIPE SIZE              | PIPE MAT'L | 90° BEND | 45° BEND | 22 1/2° BEND | 11 1/2° BEND | VALVE/<br>PLUG<br>(NOTE 2) | TEE<br>BRANCH<br>(NOTE 3) | REDUCER<br>(NOTE 4) | 45° VERT. | 22 1/2° VERT. | 11 1/2° VERT. |
| 6"                     | D.I.       | 28'      | 21'      | 6'           | 3'           | 50'                        | 26'                       | 26'                 | 21'       | 10'           | 5'            |
| 8"                     | D.I.       | 36'      | 21'      | 8'           | 4'           | 65'                        | 41'                       | 27'                 | 27'       | 13'           | 7'            |
| 10"                    | D.I.       | 43'      | 21'      | 9'           | 5'           | 77'                        | 53'                       | 26'                 | 32'       | 16'           | 8'            |
| 12"                    | D.I.       | 51'      | 21'      | 10'          | 5'           | 91'                        | 67'                       | 27'                 | 38'       | 18'           | 9'            |
| 6"                     | PVC        | 29'      | 21'      | 6'           | 3'           | 78'                        | 25'                       | 40'                 | 32'       | 16'           | 8'            |
| 8"                     | PVC        | 37'      | 21'      | 8'           | 4'           | 102'                       | 49'                       | 43'                 | 42'       | 21'           | 10'           |
| 10"                    | PVC        | 44'      | 21'      | 9'           | 5'           | 122'                       | 68'                       | 41'                 | 51'       | 25'           | 12'           |
| 12"                    | PVC        | 51'      | 21'      | 11'          | 6'           | 143'                       | 89'                       | 42'                 | 60'       | 29'           | 15'           |

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### TYPICAL WATER PRESSURE TEST RIG

## WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

TYPICAL WATER  
PRESSURE TEST RIG

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