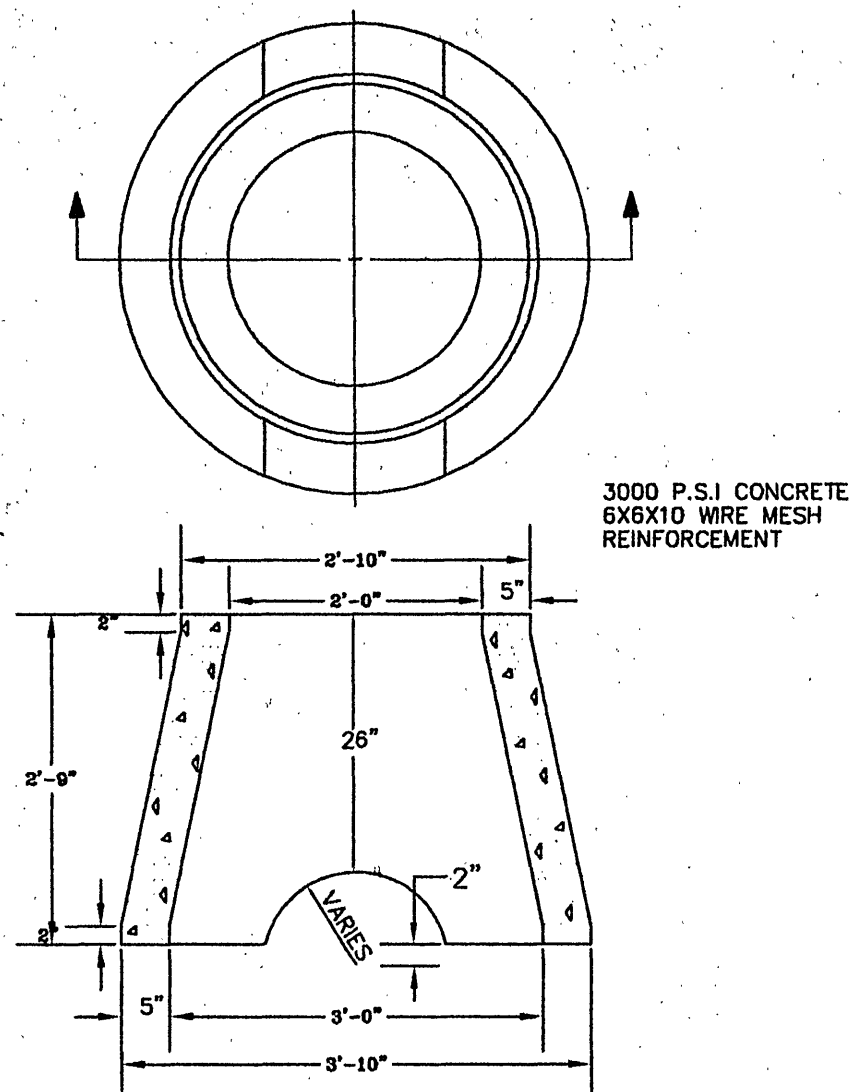
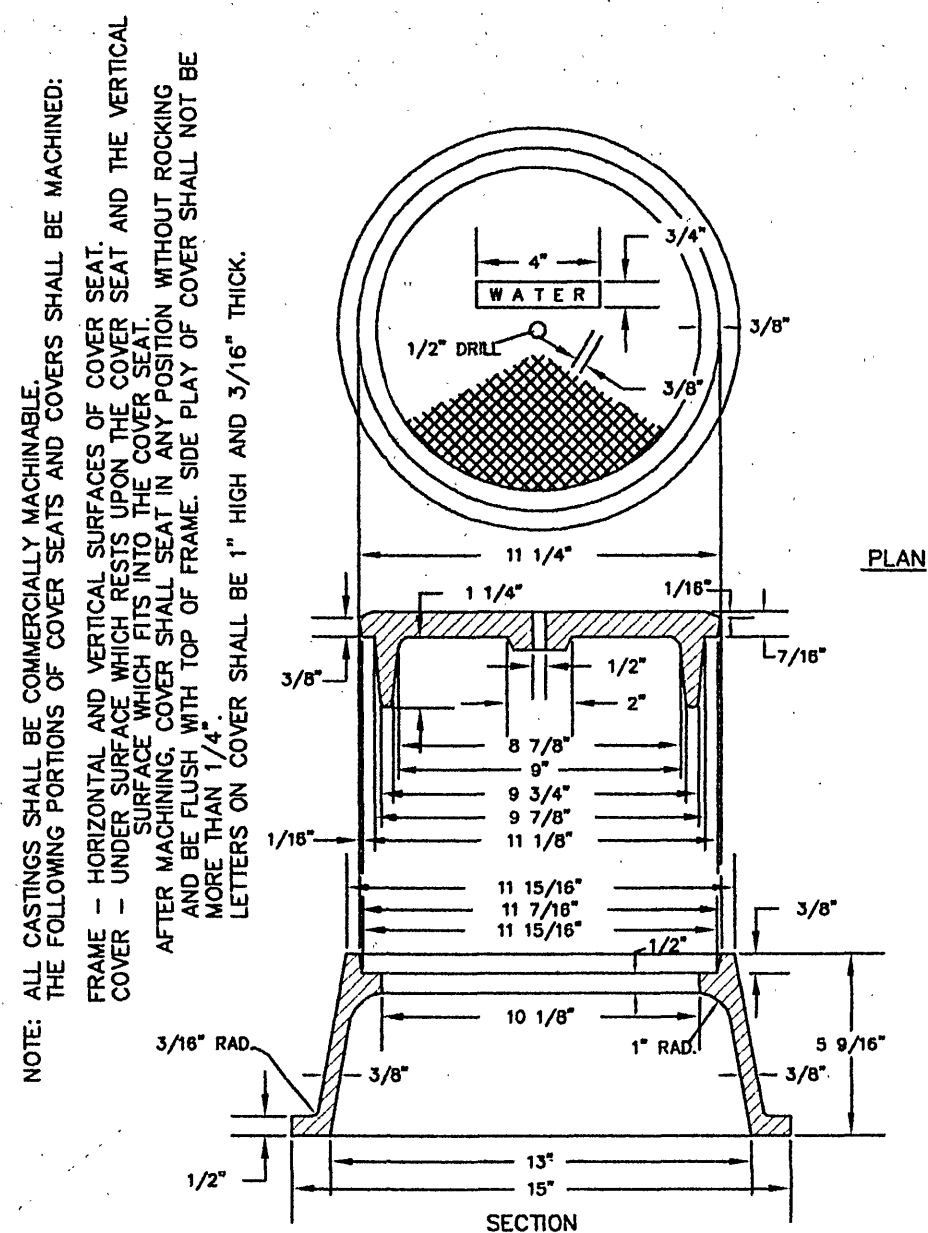


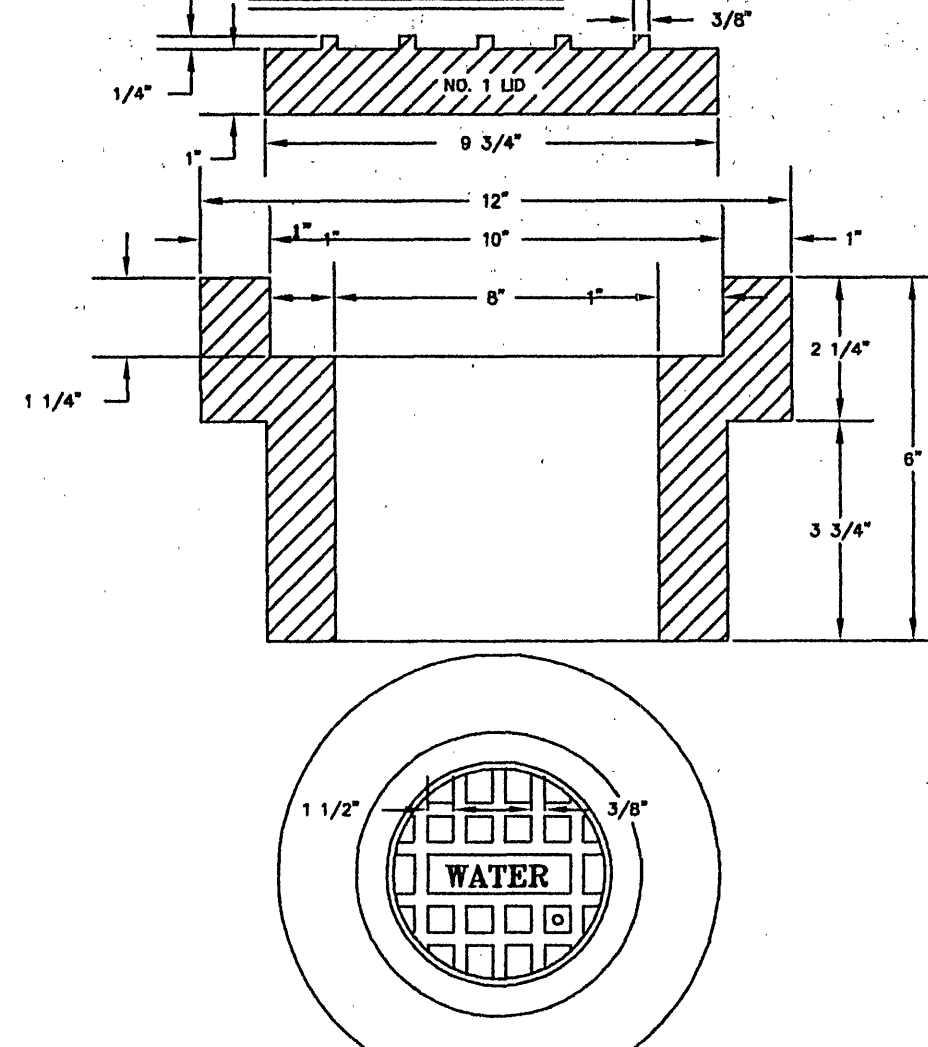
# WATER VALVE VAULT OPTIONAL PRECAST CONCRETE



# WATER METER BOX CAST IRON FRAME AND COVER

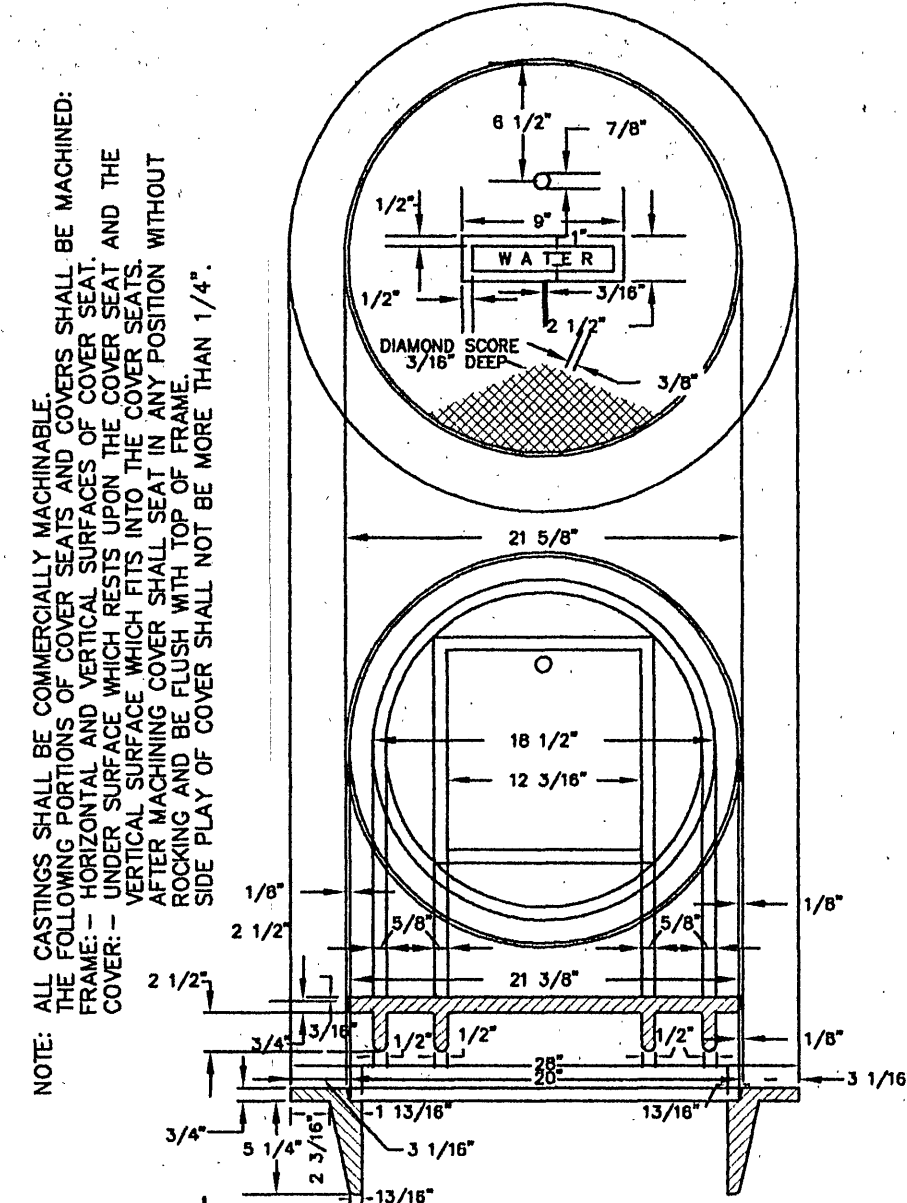


# WATER VALVE NO. 5 BOX



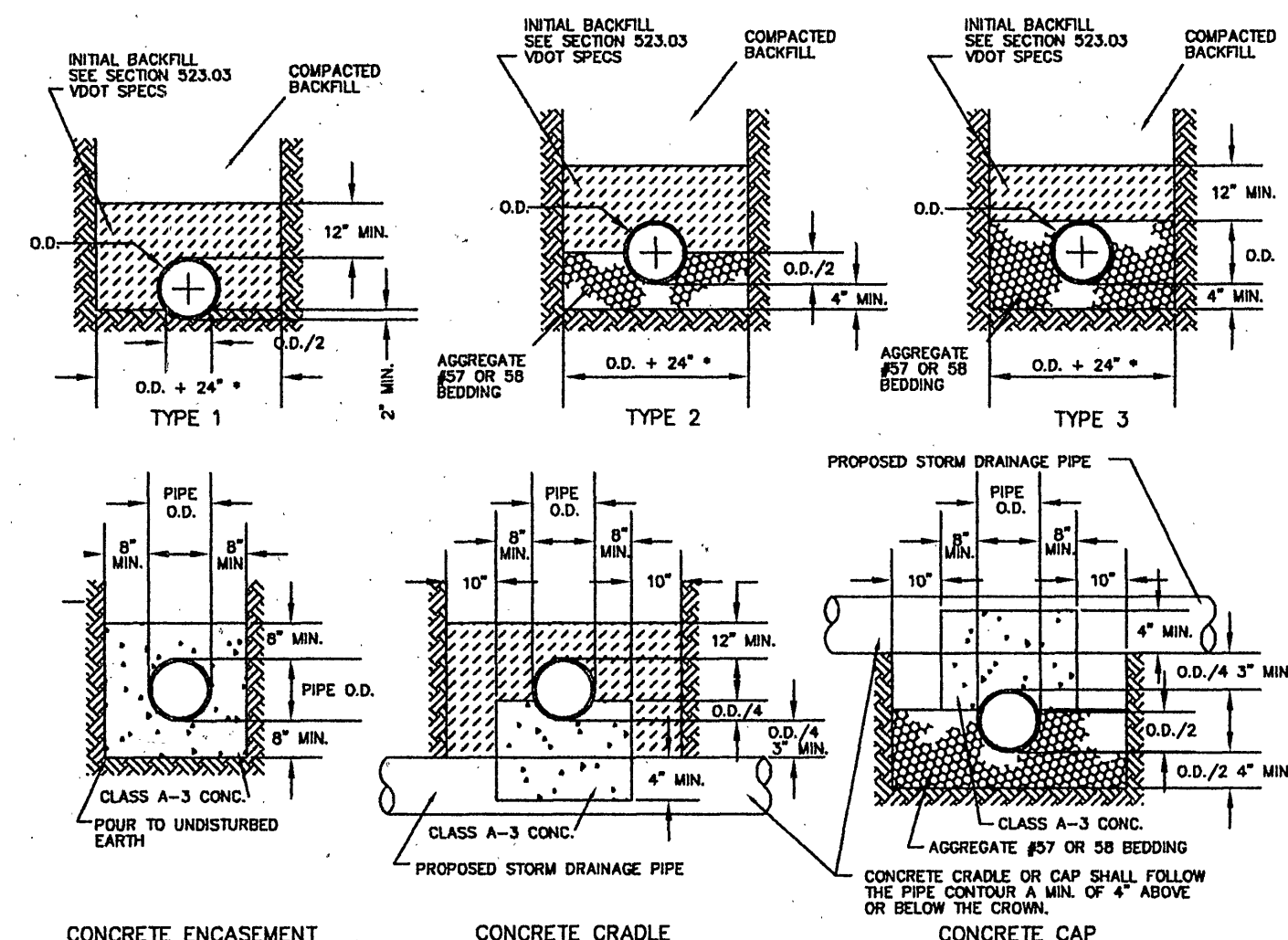
NOTE: ALL CASTINGS SHALL BE COMMERCIALY MACHINED. THE FOLLOWING PORTIONS OF COVER SEATS AND COVERS SHALL BE MACHINED:  
FRAME - HORIZONTAL AND VERTICAL SURFACES OF COVER SEAT  
COVER - UNDER SURFACE WHICH REST UPON THE COVER SEAT AND THE VERTICAL SURFACE WHICH FITS INTO THE COVER SEAT  
AFTER MACHINING COVER SHALL SEAT IN ANY POSITION WITHOUT ROCKING AND BE FLUSH WITH TOP OF FRAME. SIDE PLAY OF COVER SHALL NOT BE MORE THAN 1/4". LETTERS ON COVER SHALL BE 1" HIGH AND 3/16" THICK. NOVEMBER 10, 1964.

# WATER VALVE NO. 6 BOX



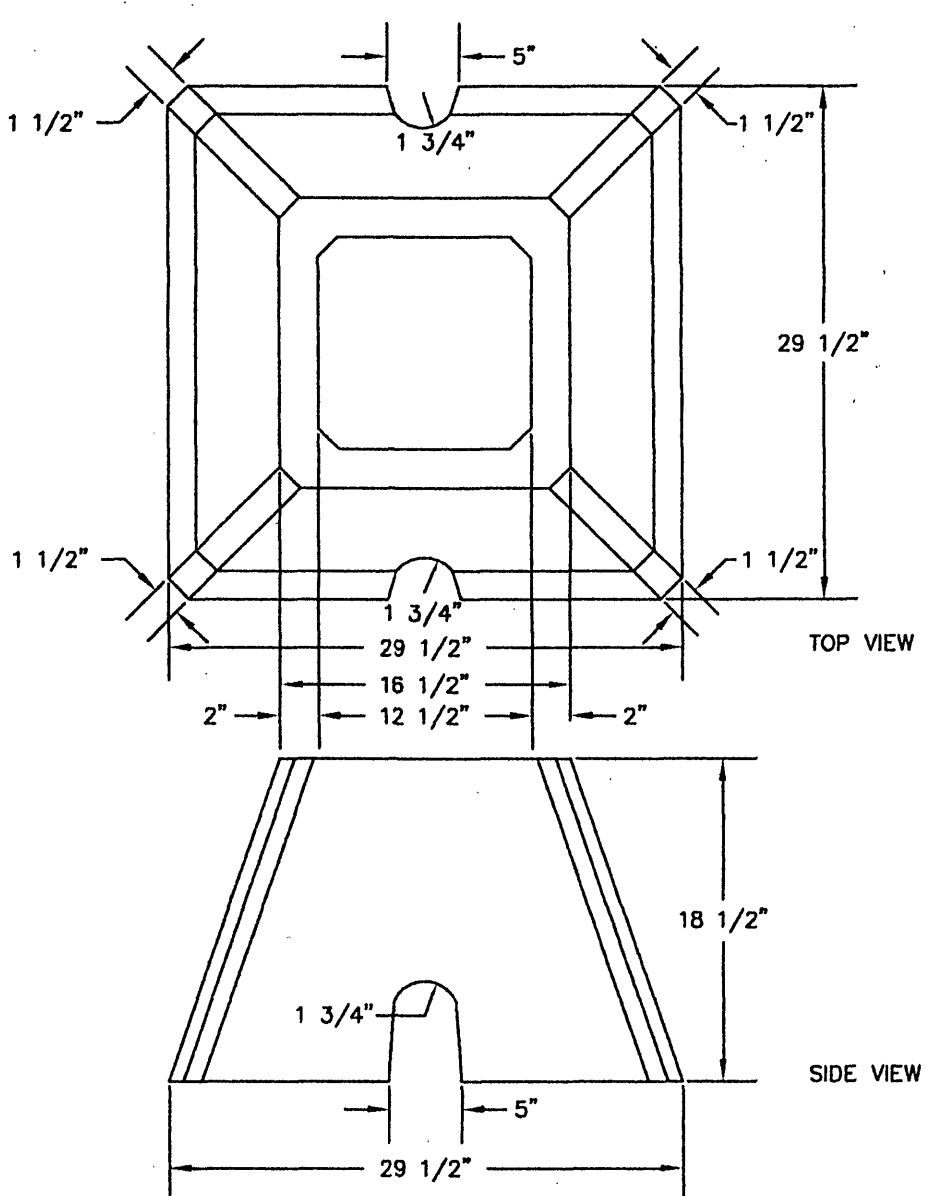
NOTE: ALL CASTINGS SHALL BE COMMERCIALY MACHINED. THE FOLLOWING PORTIONS OF COVER SEATS AND COVERS SHALL BE MACHINED:  
FRAME - HORIZONTAL AND VERTICAL SURFACES OF COVER SEAT  
COVER - UNDER SURFACE WHICH REST UPON THE COVER SEAT AND THE VERTICAL SURFACE WHICH FITS INTO THE COVER SEAT  
AFTER MACHINING COVER SHALL SEAT IN ANY POSITION WITHOUT ROCKING AND BE FLUSH WITH TOP OF FRAME. SIDE PLAY OF COVER SHALL NOT BE MORE THAN 1/4".

# UTILITY BEDDING AND PROTECTION WATER AND SANITARY SEWER FACILITIES

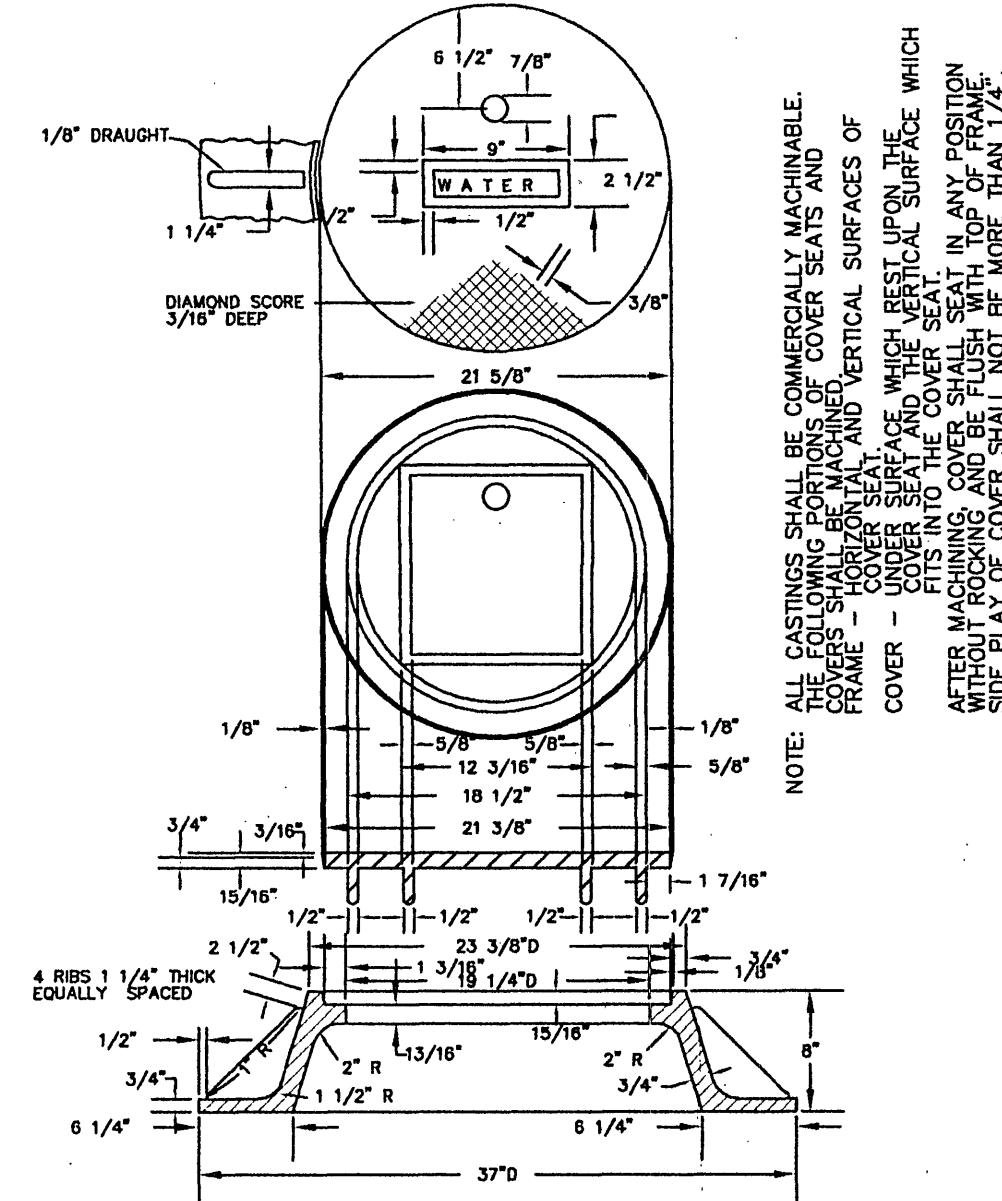


CONCRETE ENCASMENT  
CONCRETE CRADLE  
CONCRETE CAP

# WATER METER BOX PRECAST CONCRETE (FOR CAST IRON METER BOX)

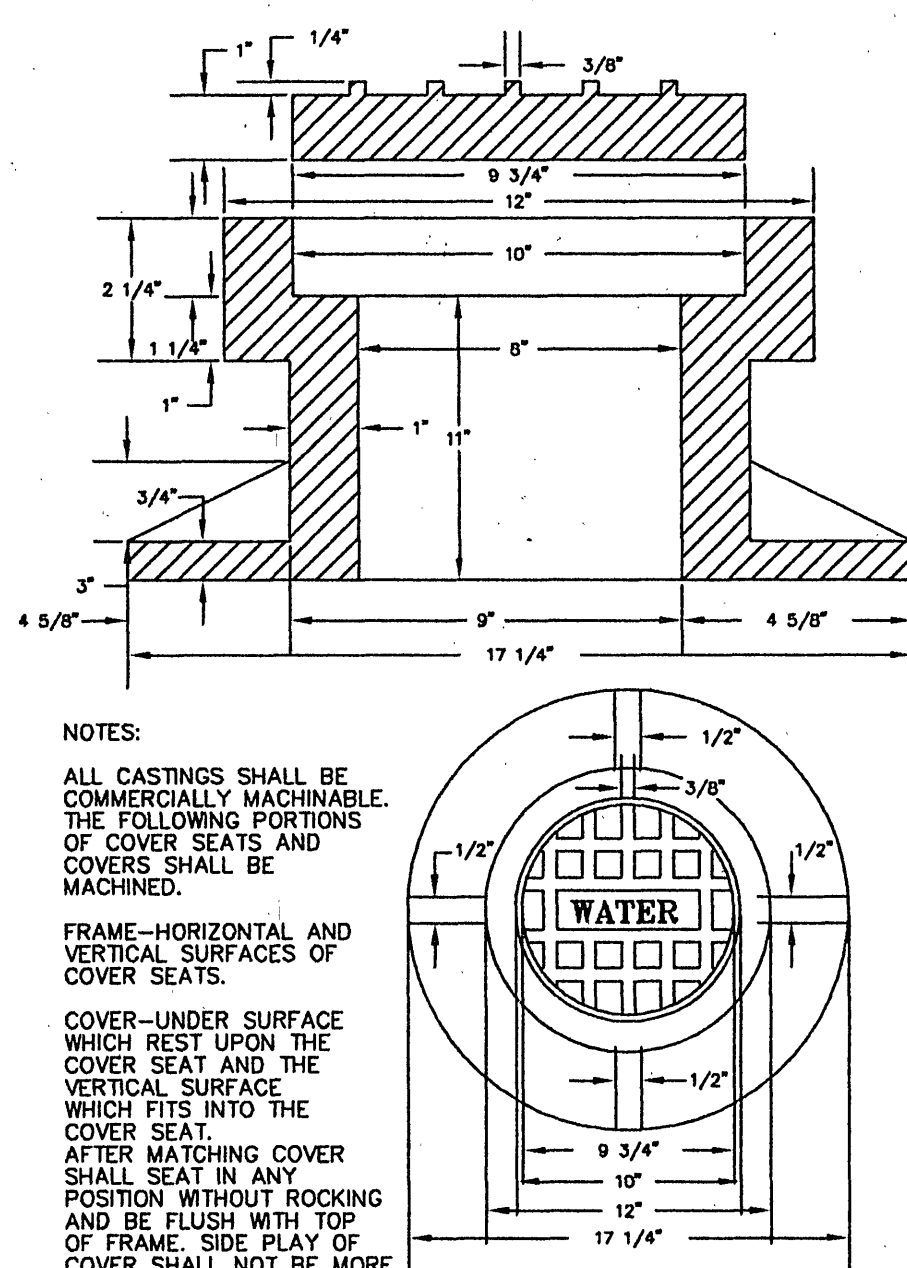


# WATER VALVE NO. 2 BOX



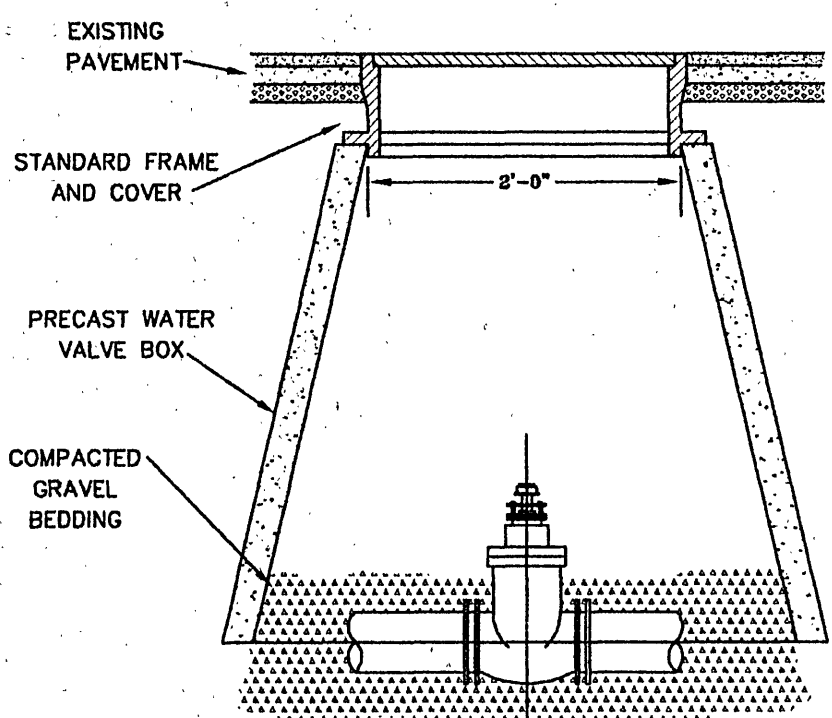
NOTE: ALL CASTINGS SHALL BE COMMERCIALY MACHINED. THE FOLLOWING PORTIONS OF COVER SEATS AND COVERS SHALL BE MACHINED:  
FRAME - HORIZONTAL AND VERTICAL SURFACES OF COVER SEAT  
COVER - UNDER SURFACE WHICH REST UPON THE COVER SEAT AND THE VERTICAL SURFACE WHICH FITS INTO THE COVER SEAT  
AFTER MACHINING COVER SHALL SEAT IN ANY POSITION WITHOUT ROCKING AND BE FLUSH WITH TOP OF FRAME. SIDE PLAY OF COVER SHALL NOT BE MORE THAN 1/4".

# WATER VALVE NO. 1 BOX



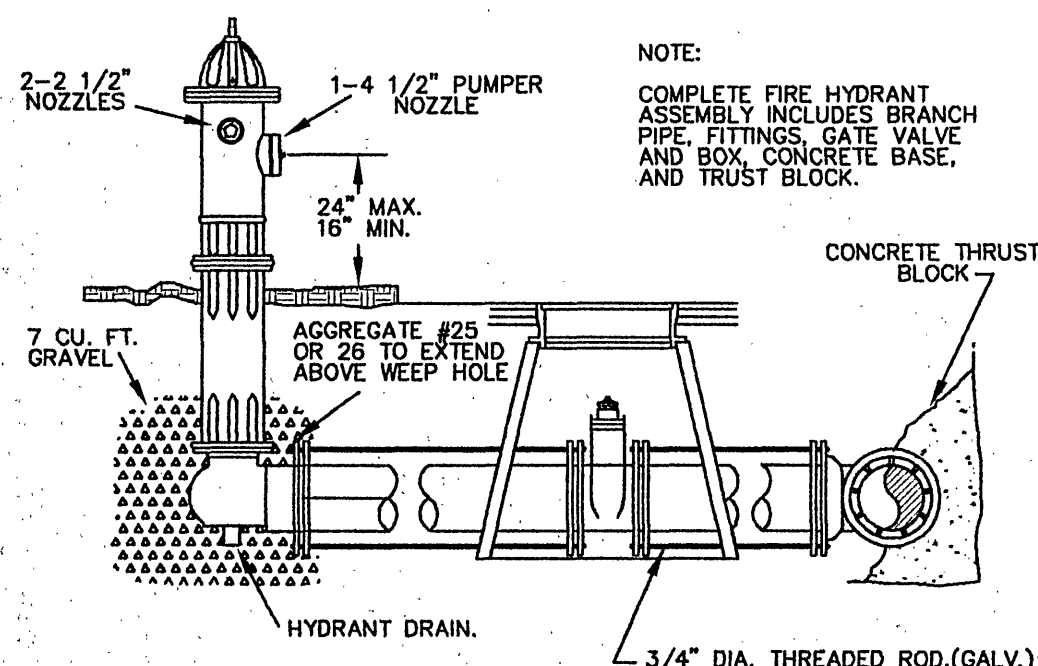
NOTES:  
ALL CASTINGS SHALL BE COMMERCIALY MACHINED. THE FOLLOWING PORTIONS OF COVER SEATS AND COVERS SHALL BE MACHINED:  
FRAME - HORIZONTAL AND VERTICAL SURFACES OF COVER SEAT  
COVER - UNDER SURFACE WHICH REST UPON THE COVER SEAT AND THE VERTICAL SURFACE WHICH FITS INTO THE COVER SEAT  
AFTER MACHINING COVER SHALL SEAT IN ANY POSITION WITHOUT ROCKING AND BE FLUSH WITH TOP OF FRAME. SIDE PLAY OF COVER SHALL NOT BE MORE THAN 1/4". LETTERS ON COVER SHALL BE 1" HIGH AND 3/16" THICK.

# MAIN LINE VALVE INSTALLATION



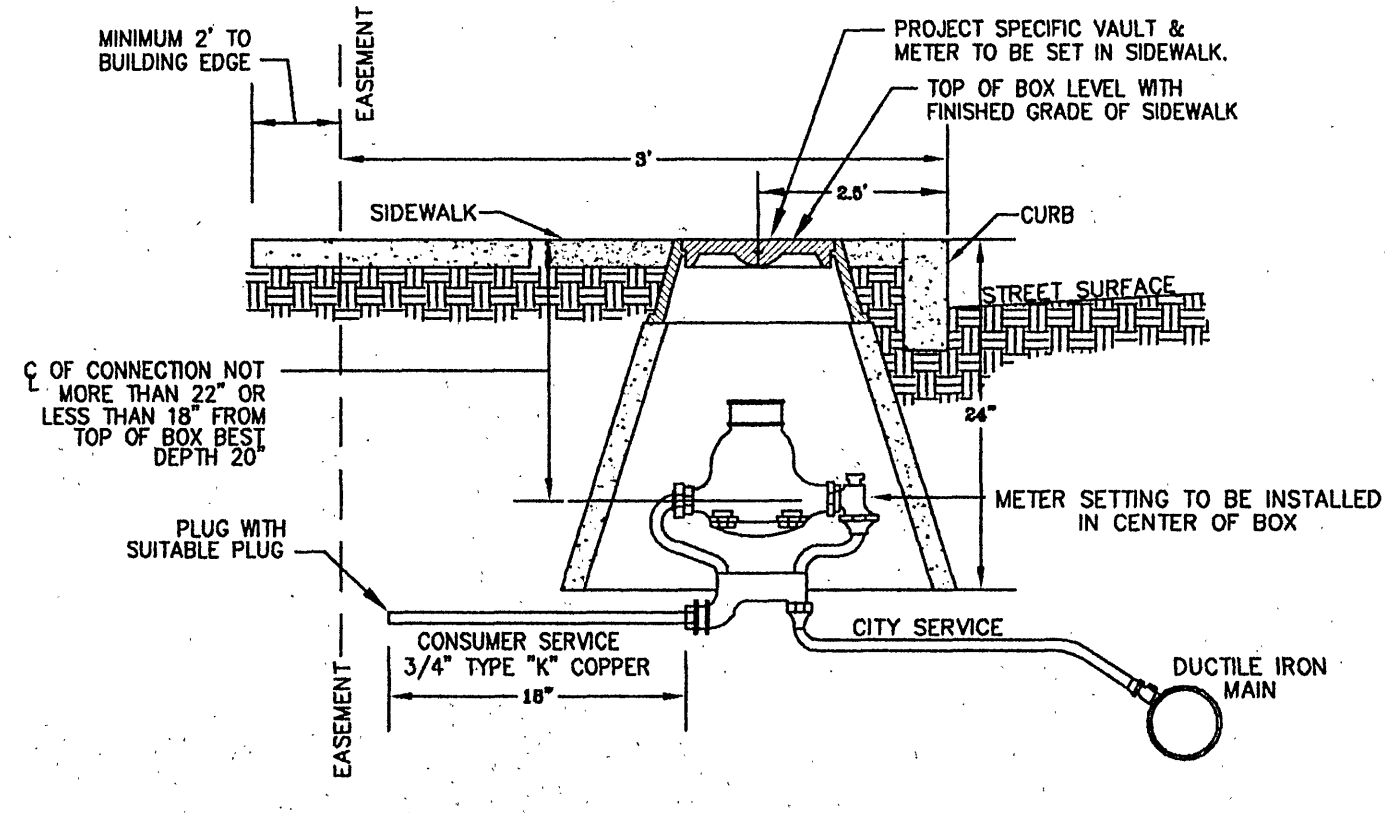
W-2

# FIRE HYDRANT SETTING

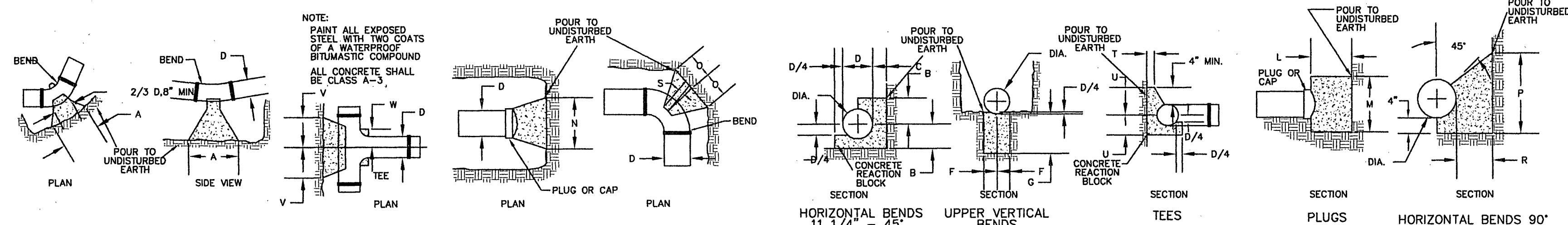


W-7

# REVISED SETTING FOR 5/8" WATER METER



W-8



| DIA. | HORIZONTAL BENDS |      |      |         |      |      |      |      |      | UPPER VERTICAL BENDS |      |      |         |      |      |      |      |      | PLUGS |      |      | HORIZ. BENDS |      |      |        |      | TEE BRANCH |      |      |  |  |
|------|------------------|------|------|---------|------|------|------|------|------|----------------------|------|------|---------|------|------|------|------|------|-------|------|------|--------------|------|------|--------|------|------------|------|------|--|--|
|      | 11 1/4"          |      |      | 22 1/2" |      |      | 45°  |      |      | 11 1/4"              |      |      | 22 1/2" |      |      | 45°  |      |      | L     | M    | N    | 90°          |      |      | BRANCH |      |            |      |      |  |  |
|      | A                | B    | C    | A       | B    | C    | A    | B    | C    | E                    | F    | G    | E       | F    | G    | E    | F    | G    |       |      |      | O            | P    | R    | S      | T    | U          | V    | W    |  |  |
| 4"   | .50              | .58  | .75  | .75     | .58  | .75  | 1.25 | .58  | .75  | .50                  | .58  | .58  | .75     | .58  | .58  | 1.25 | .58  | .58  | .50   | 1.17 | 1.50 | 1.17         | 1.17 | 1.67 | .42    | .75  | .67        | .75  | .50  |  |  |
| 6"   | .50              | .58  | .75  | .75     | .58  | .75  | 1.25 | .58  | .75  | .50                  | .58  | .58  | .75     | .58  | .58  | 1.25 | .58  | .58  | .50   | 1.17 | 1.50 | 1.17         | 1.17 | 1.67 | .42    | .75  | .67        | .75  | .50  |  |  |
| 8"   | .67              | .67  | .75  | 1.00    | .67  | .75  | 2.00 | .67  | .75  | .67                  | .67  | .58  | 1.00    | .67  | .67  | 2.08 | .75  | .83  | .67   | 1.50 | 2.25 | 1.58         | 1.50 | 1.75 | .50    | .75  | .83        | 1.00 | .67  |  |  |
| 10"  | .83              | .75  | .75  | 1.50    | .75  | .83  | 2.50 | .75  | .92  | .83                  | .67  | 1.50 | .83     | .67  | 2.08 | .75  | .83  | .67  | 2.00  | 2.50 | 1.67 | 2.08         | 1.75 | .50  | .83    | 1.00 | 1.25       | .67  |      |  |  |
| 12"  | 1.00             | .83  | .75  | 1.75    | .92  | .92  | 2.92 | .92  | 1.17 | 1.00                 | .83  | .67  | 1.75    | .83  | .67  | 2.50 | .92  | .92  | .83   | 2.33 | 3.25 | 2.00         | 2.50 | 1.92 | .58    | 1.00 | 1.25       | 1.42 | .67  |  |  |
| 16"  | 1.33             | 1.00 | .75  | 2.33    | 1.00 | 1.17 | 3.67 | 1.25 | 1.42 | 1.33                 | 1.00 | .75  | 2.25    | .83  | .75  | 3.33 | 1.25 | 1.25 | 1.00  | 2.92 | 4.17 | 2.08         | 3.00 | 2.17 | .83    | 1.17 | 1.67       | 1.83 | .83  |  |  |
| 20"  | 1.67             | 1.17 | 1.00 | 3.17    | 1.17 | 1.33 | 4.75 | 1.50 | 1.83 | 1.67                 | 1.17 | .83  | 3.00    | 1.17 | 1.00 | 4.17 | 1.50 | 1.50 | 1.33  | 3.75 | 5.17 | 3.50         | 3.83 | 2.83 | 1.00   | 1.33 | 2.08       | 2.25 | 1.17 |  |  |
| 24"  | 2.00             | 1.33 | 1.00 | 4.00    | 1.33 | 1.50 | 6.08 | 1.87 | 1.92 | 2.00                 | 1.33 | 1.00 | 3.50    | 1.33 | 1.00 | 5.00 | 1.75 | 1.75 | 1.67  | 4.33 | 6.25 | 4.67         | 4.00 | 3.00 | 1.00   | 1.50 | 2.50       | 2.67 | 1.33 |  |  |
| 30"  | 2.50             | 1.50 | 1.08 | 5.00    | 1.58 | 1.75 | 7.95 | 2.00 | 3.08 | 2.50                 | 1.58 | 1.08 | 4.17    | 1.58 | 1.08 | 6.25 | 2.25 | 2.25 | 2.00  | 5.42 | 7.42 | 5.57         | 5.00 | 3.83 | 1.17   | 1.75 | 3.08       | 3.92 | 1.83 |  |  |
| 36"  | 3.00             | 1.92 | 1.17 | 5.75    | 2.00 | 2.00 | 8.92 | 2.50 | 3.33 | 3.00                 | 1.58 | 1.17 | 5.33    | 2.00 | 1.17 | 7.50 | 2.50 | 2.67 | 2.00  | 6.50 | 9.00 | 6.83         | 6.00 | 4.83 | 1.17   | 2.00 | 3.75       | 3.92 | 1.83 |  |  |

# REACTION BLOCKING WATER AND SANITARY SEWER FACILITIES