



NOTES:

- A. THE VAULT SHALL BE CONSTRUCTED WITH 4000 PSI REINFORCED CONCRETE. USE OF BLOCK MUST BE APPROVED IN WRITING BY CWS BEFORE CONSTRUCTION.
- B. WALLS SHALL BE A SINGLE POUR. SEAL WITH RAM-NEK OR CONSEAL BETWEEN WALLS AND BOTTOM AND WALLS AND LID CONTINUOUS AROUND PERIMETER.
- C. IN NON-TRFFIC AREA USE ALUMINUM LIGHT TRAFFIC (300PSI) DOOR. IN TRAFFIC AREA USE AASHTO-H20 LOAD RATING ALUMINUM DOOR.
- D. DOORS ARE TO BE LOCATED SO METER CAN BE READ AND STRAINER CAN BE LIFTED STRAIGHT OUT. HINGES SHALL BE LOCATED ON THE OUTLET (DOWNSTREAM) SIDE OF THE DOOR OPENING. USE ONLY CWS APPROVED DOORS BY USF FABRICATION AND BILCO.
USE: 3' x 3' DOOR ON 4" METER
3'-6" x 3'-6" DOOR ON 6" METER
4' x 6' DOOR ON 8" AND 10" METERS
- E. DOORS SHALL BE ISSUED BY CWS NEW INSTALLATION ENGINEERING REPRESENTATIVE.
- F. ALUMINUM LADDER W/SAFETY POST SHALL BE USED IN VAULTS 5' DEEP OR DEEPER. LADDER SHALL BE PLACED ON OPPOSITE SIDE OF METER FROM BYPASS.
- G. USE NON-SHRINKING HYDRAULIC CEMENT WATER STOP AT VAULT PENETRATIONS.
- H. DIMENSION "C" IS FOR NEPTUNE COMPOUND METERS. DIMENSIONS MAY VARY SLIGHTLY WITH TYPES OF FITTINGS USED.
- I. VALVE AND DOOR STATUS AFTER INSTALLATION IS AS FOLLOWS:
 - VALVE BETWEEN MAIN AND VAULT FULLY OPEN
 - METER INLET VALVE FULLY CLOSED
 - BYPASS GATE VALVE FULLY CLOSED
 - METER OUTLET VALVE FULLY OPEN
 - DOOR LOCKED USING STAR-SHAPED LOCKING BOLT
- J. ANY DEVIATION FROM THESE PLANS MUST BE APPROVED BY CWS PRIOR TO INSTALLATION.
- K. NO VAULT IS TO BE INSTALLED WITHOUT PRIOR APPROVAL OF CWS WATER DISTRIBUTION ENGINEER.

| DIMENSION | 4" | 6" | 8" | 10" |
|-----------|---------|---------|----------|----------|
| A | 4.80" | 6.90" | 9.05" | 11.10" |
| B | 9" | 10.5" | 11.5" | 13" |
| C | 33" | 45" | 53" | 68" |
| D | 11" | 11" | 11" | 11" |
| E | 13" | 14" | 15" | 18" |
| F | 16.5" | 20.125" | 23.25" | 26.126" |
| G | 19" | 25.5" | 29.5" | 31.75" |
| H | 62" | 77" | 87" | 105" |
| I | 12" | 16" | 17" | 18" |
| J | 12.625" | 14.625" | 13.6825" | 13.5625" |
| K | 3.25" | 3.5" | 4.75" | 4.5" |
| L | 17.8" | 21.7" | 22.7" | 24.7" |
| M | 13" | 16" | 18" | 22" |

CHARLESTON WATER SYSTEM

4" - 10" METERS WITH BYPASS

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| APPROVED BY: CWS | DATE: AUG 2002 | DRAWING NO. 25 |
| SCALE: NTS | REVISED: FEB 2010 | |

METER SET-UP FOR 4" - 10" PIPE WITH BYPASS