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### Notes:
1. Volumes given in cubic feet.
2. Backer to be centered horizontally on bend.
3. Steel will be used as required by the engineer.
4. All new pipe 20" & larger shall be restrained joint per CCMS Item 801 unless otherwise per plan or as directed by the engineer.
5. Existing water mains 20" and greater must have prior approval from DOW to lower under a proposed utility. Approval will only be given under special circumstances and contingent upon the contractor submitting a designed drawing, stamped by a professional engineer, detailing how the lowered water main will be restrained to the existing water main.
6. Where polyethylene encasement is required, all glands & bolts shall be wrapped prior to placement of concrete blocking, see "L-1003".

### Diagrams

- **Plan View**
  - Class "C" concrete
  - Undisturbed earth
  - Allowable width of trench

- **Section A-A**
  - Class "C" concrete
  - Step backer if necessary to obtain horizontal bearing

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**CITY OF COLUMBUS**
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

**STANDARD DETAIL**
BACKING FOR VERTICAL BENDS
(Over bends only)

**APPROVED:**
R.C. Westphal
1-26-18
ADMINISTRATOR
DATE

**L-6310**