1. For an 8-inch main a 8\(^\circ\) x 2\(^\circ\) double-strap clamp (#H-16130)
2. For an 6-inch main a 6\(^\circ\) x 2\(^\circ\) double-strap clamp (#H-16126)
3. Where hydrants are installed on existing mains, place concrete brick or block to undisturbed earth and encase with concrete and/or use restraining glands.
4. Block width to be 1'-6" outside edges of sides) min 6 feet.
5. Fire hydrant assembly - close couple type
6. Vertical reaction blocking
7. Type "K" copper pipe
8. Thrust block dimensions

**Specifications for 2" water service and fire hydrants**

1. Install additional fittings and duct pipe as necessary between water main and valve box to meet building code requirements.
2. Use #7 deformed bars (ASTM A-305).
3. Use #4 re-bar at 12-inch centers each way.
4. Use 1 1/4" #7 deformed bars (ASTM A-305).
5. Use 2 1/2" #7 deformed bars (ASTM A-305).
6. All 2" cast iron pipe,
7. Types "N" copper pipe

**Fire hydrant specifications**

1. Install additional fittings and duct pipe as necessary between water main and valve box to meet building code requirements.
2. Use #7 deformed bars (ASTM A-305).
3. Use 11 1/4° reinforcing bars (ASTM A-305).
4. Use 22 1/2° reinforcing bars (ASTM A-305).
5. Use 45° reinforcing bars (ASTM A-305).
6. Use 9° reinforcing bars (ASTM A-305).
7. Types "N" copper pipe

**Water main/utility crossing**

1. For water main beddings, see cross section sheet WM-1.
2. For water main bedding, see cross section sheet WM-1.
3. For water tap must be made under township supervision.
4. For an 8-inch main a 8\(^\circ\) x 2\(^\circ\) double-strap clamp (#H-16130)
5. For an 6-inch main a 6\(^\circ\) x 2\(^\circ\) double-strap clamp (#H-16126)
6. Water main standard details
7. Vertical reaction blocking notes
8. Fire hydrant assembly - close couple type
9. Water main/Utility crossing

**THRUST BLOCK**

- **N** CANTON CENTER S.
- **O** CANTON, MI 48188-1699
- **S** 1150 CANTON CENTER S.
- **T** NATIONAL WATERWORKS 1-(734) 480-2211
- **E** MUELLER PRODUCTS MAY BE OBTAINED FROM:
  - LiQUID TEFLON OR PIPE DOPE IS ONLY TO BE USED ON THE CORPORATION STOP AND DOUBLE-STRAP CLAMP.
  - Meters may be picked up at the township DPW building.
  - No hydrant shall be placed within 10-feet of any roadway intersection or driveway.
  - Type "K" copper pipe
  - The water tap must be made under township supervision.
  - 2" flange

**Specifications for 2" water service and fire hydrants**

1. The builder or contractor shall be responsible for purchasing specification materials shown below:
2. For an 8-inch main a 8\(^\circ\) x 2\(^\circ\) double-strap clamp (if out - #H15101)
3. For an 6-inch main a 6\(^\circ\) x 2\(^\circ\) double-strap clamp (if out - #H15000)
4. Use 2 1/2" corrugated pipe (if out - #H15204)
5. Use 2 1/2" corrugated pipe (if out - #H15201)
6. Use #7 deformed bars (ASTM A-305)
7. Use #4 re-bar at 12-inch centers each way.
8. Use additional fittings and duct pipe as necessary between water main & valve box to meet building code requirements.
9. Use #7 deformed bars (ASTM A-305)

**VERTICAL REACTION BLOCKING**

1. Thrust block (if out - #H15201)
2. 2" flange
3. 2" service
4. 2" valve
5. 6" valve
6. 3" valve
7. 2" fire hydrant assebly - close couple type
8. Fire hydrant assembly - "T" type
9. Fire hydrant assembly - "T" type

**WATER MAIN STANDARD DETAILS**

1. The table is based on soil bearing of 1,500 p.s.f. Therefore, when placed in muck, peat, or other impermeable soils, a pipe size one size larger than that shown in the table shall be used.
2. To meet building code requirements.
3. The builder or contractor shall be responsible for purchasing specification materials shown below:
4. For an 8-inch main a 8\(^\circ\) x 2\(^\circ\) double-strap clamp (if out - #H15101)
5. For an 6-inch main a 6\(^\circ\) x 2\(^\circ\) double-strap clamp (if out - #H15000)
6. Use additional fittings and duct pipe as necessary between water main & valve box to meet building code requirements.
7. Use #7 deformed bars (ASTM A-305)
8. Use #7 deformed bars (ASTM A-305)
9. Use #7 deformed bars (ASTM A-305)