



CITY OF DULUTH
 PURCHASING DIVISION
 Room 100 City Hall
 411 West First Street
 Duluth, Minnesota 55802-1199
 218/730-5340 218/730-5922 FAX

Date: January 11, 2012

Water Main/Fire Hydrant Valves
 #12-0034

Simplified Bid

Please provide the City of Duluth quotes for **Water Main/Fire Hydrant valves** per the attached specifications, description and/or list. Please mark your quote with the bid number and description. Quotes can be mailed to Purchasing, Room 100, City Hall, 411 West 1st Street, Duluth, MN 55802 or faxed to (218) 730-5922.

Quotes are to be received by 2 PM, Thursday, January 26, 2012.

The City of Duluth reserves the right to split the award if beneficial to do so.

Do not include tax in your quote.

All quotes must be signed by the authorized company representative.

Please bid Destination
 Duluth

Tax: Federal Excise Tax Exemption
 Account No. 41-74-0056 K

Item No.	Qty	U/OM	Description	Unit Price	Total Price
01	75	ea	6" M.J. x M.J. Gate Valve, 2" Square operating nut-opening counter clockwise		

(See attached specs)

Note: Valves to be bid with stainless steel nuts and bolts and without accessories.

Vendor E-mail Address _____

Freight Charges DEST.

Name _____

Total Bid Price _____

Addr _____

Payment Terms _____

By _____
 (Print Title)

FOB Duluth, MN

Delivery Date _____

(Signature)

(Tele#)

**City of Duluth, Minnesota Public Works and Utilities Department –
Engineering Division
Standard Construction Specifications 2009 Edition**

- e. Hydrant operating mechanisms shall be provided with Buna-N “O” ring seals preventing entrance of moisture and shall be lubricated through an opening in the operating nut or bonnet.
- f. The exterior of the hydrant base shall be supplied with an epoxy coating.
- g. Connection shall be a 6 inch mechanical joint with an anchoring tee, tapping tee or tee complete with gland, Cor-Ten or similar low corrosion type bolts, and harnessing lugs. Zinc anode caps conforming to ASTM B-418 shall be installed on the bolts on all mechanical joint fittings. The anode size shall be regular.
- h. Operating and nozzle cap nuts shall be a pentagon, 1-1/2 inches point to face. Operating nut shall have an O-ring or seal ring to keep water and dirt from entering the bonnet. Opening shall be counterclockwise.
- i. Design of hydrant shall allow for removal of the main and waste valve seats without excavating or disturbing the ground.
- j. Portions of the hydrant above the ground line shall be primed and painted chrome yellow. Coating below the ground line shall be according to standards.
- k. A traffic flange and operating rod coupling shall be located not more than 2 inches above the ground line and be designed so that in the event of an accident or breaking of the hydrant above the ground line, the main valve will remain closed.
- l. Lower flange on the nozzle section shall be the swivel type.
- m. Hydrants shall be provided with outlets for drainage in the base or barrel, or between the base and barrel, unless the Special Provisions require that drain outlets be omitted or plugged.
- n. Bolts and nuts below grade shall be stainless steel.

12 Valves

Valve sizes ten inches (10”) and smaller shall be gate type. Valves twelve inches (12”) and larger shall be butterfly type exclusively.

13. Gate Valves (10” and smaller only)

Gate valves shall be manufactured and furnished in accordance with an approved pattern and shall conform to the requirements of AWWA C509 for resilient seated gate valves, and all gate valves must meet such supplementary requirements as may be stipulated in the Contract Drawings or Special Provisions and the provisions hereof. Unless otherwise specified, the valves furnished shall comply with the following supplementary requirements.

- a. Gate valves shall be solid disc with resilient seating.
- b. All valves shall be furnished with O-Ring stem seals.

**City of Duluth, Minnesota Public Works and Utilities Department –
Engineering Division
Standard Construction Specifications 2009 Edition**

- c. Valves shall have a two inch square operating nut opening counter-clockwise.
- d. All valves shall be of the non-rising stem type.
- e. Each valve shall have mechanical joint ends complete with gasket, gland, and bolts. Bolts or valve flange shall be provided with means for preventing the bolt from slipping in the slotted holes.
- f. The exterior of the valve shall be supplied with an epoxy coating. Mechanical joint bolts shall be Cor-Ten or similar low corrosion bolts with zinc anode caps conforming to ASTM B-418 for regular anode size.
- g. All exposed bolts on the valve shall be stainless steel.

14. Butterfly Valves (12" and larger sizes only)

Butterfly valves shall conform to the requirements of AWWA C504, Class 150B unless otherwise specified, with manual actuator equipped with standard 2-inch square operating nut, split V type or O-ring stem seal and enclosed in a lubricating gear box. For buried installations, valves shall be equipped with a side-mounted actuator designed to accept a valve box. Valve disc shall be cast iron conforming to ASTM 126, Class B or ASTM A48, Class 40, alloy cast iron conforming to ASTM A436 or A439, or ductile iron conforming to ASTM A536. The exterior of the valve shall be supplied with an epoxy coating. All exposed bolts on the valve shall be stainless steel. They shall be furnished with mechanical joint ends and open counter-clockwise. The exterior of the valve shall be supplied with an epoxy coating. Mechanical joint bolts shall be Cor-Ten or similar low corrosion bolts with zinc anode caps conforming to ASTM B-418 for regular anode size.

15. Valve Boxes

Valve Boxes shall be 5 1/4" cast iron screw-type, consisting of the following parts:

Cover	Stay-put type, "WATER" cast thereon, with solid edges (no grooves or flutes on edge)
Top Section	26" length
Extension Section	30" length
Bottom Section	30" length
Base	#6 Round Base

All parts must be interchangeable with Bingham and Taylor #4906 and Tyler #6860. Valve box assemblies shall be manufactured in Northern America or preapproved by the Engineer.