



Purchasing Division
 Room 100
 City Hall
 411 West 1st Street
 Duluth, MN 55802

Date: January 11, 2012

Transition Cast Couplings
 #12-0043
Simplified Bid

Please provide the City of Duluth quotes for **Transition Cast Couplings** 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 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

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

| Item No. | Qty | U/OM | Description | Unit Price | Total Price |
|----------|-----|------|-------------|------------|-------------|
|----------|-----|------|-------------|------------|-------------|

(See Next Page)

Vendor E-mail Address _____

Freight Charges DEST.

Name _____

Total Bid Price _____

Addr _____

(To include any additional pages)

Payment Terms _____

By _____

FOB Duluth, MN

(Print Title)

Delivery Date _____

(Signature)

(Tele#)

The City of Duluth is an Equal Opportunity Employer

Request for Bid
Date: 01/11/12
Bid # 12-0043

Page 2 of 2

| Item No. | Qty | U/OM | Description | Unit Price | Total Price |
|----------|-----|------|-------------------------------|------------|-------------|
| 01 | 100 | ea | 6" transition cast couplings | _____ | _____ |
| 02 | 12 | ea | 8" transition cast couplings | _____ | _____ |
| 03 | 8 | ea | 11" transition cast couplings | _____ | _____ |
| 04 | 8 | ea | 12" transition cast couplings | _____ | _____ |
| 05 | 5 | ea | 16" transition cast couplings | _____ | _____ |

Note: All transition couplings to be used on cast iron or ductile pipe.

See attached specs.

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Standard Construction Specifications 2011 Edition**

7. HDPE Transition Couplings and Adapters

- a. The HDPE by MJ Adapters shall be manufactured by Central Plastics Company or equal. The adapter shall comply with AWWA C906 and be manufactured for use on pipe conforming to ASTM D2513, D3035 and F-714. The adapter shall be molded from a PPI and NSF listed pre-blended virgin resin in accordance with the material specifications listed in ASTM D3350 with a cell classification of 34F464C and be compatible for heat fusion with any pipe manufactured from a like or similar resin. Adapters shall be tested according to ASTM D1599 and ASTM D1598. HDPE Adapters shall be sized for use with ductile iron pipe size HDPE pipe. Adapters shall provide joint restraint. Adapters shall be used for all transitions from HDPE to valves or ductile iron pipe.
- b. The HDPE to cast iron transition couplings shall be furnished and installed from new HDPE pipe to existing cast iron pipe. The transition couplings shall be Smith Blair model 441 or equal. HDPE pipe stiffeners shall also be provided and installed to prevent compression of the HDPE pipe. Pipe stiffeners shall be Smith Blair or equal. Stiffeners shall be designed to prevent over insertion.
- c. Transition couplings 2-inch and smaller shall consist of HDPE by threaded stainless steel connections. The coupling shall include a stainless steel transition compression ring with o-ring seal. Adapters shall have a pressure rating equal to that of the mating pipe. HDPE shall be plain end for butt fusing. Coupling shall be manufactured by Central Plastics, Inc. or equal.
- d. All bolts to be used on adapters and couplings shall be supplied with zinc anode caps conforming to ASTM B-418 for regular anode size.

8. Transition Couplings

Cast transition couplings for 4 inch through 12 inch shall be furnished with ductile iron sleeves, ductile iron followers and stainless steel bolts. Gaskets shall be natural or synthetic vulcanized rubber recommended for water system use. The finish shall be fusion bonded epoxy meeting ASTM C213. Couplings shall have a size range to connect cast iron to cast iron or cast to ductile iron, or ductile iron to ductile iron as necessary for the application. Estimated pipe outside diameters are shown in the table below. Latter dimension is maximum for pit cast end requirement. Contractor shall verify all pipe dimensions prior to ordering couplings. All couplings shall be rated for 250 psi minimum.

**City of Duluth, Minnesota Public Works and Utilities Department –
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| | |
|------------|------------------|
| 4" | 4.80" to 5.10" |
| 6" | 6.90" to 7.20" |
| 8" | 9.05" to 9.45" |
| 10" | 11.10" to 11.50" |
| 12" | 13.20" to 13.50" |

Couplings shall be Smith Blair 441, JCM 210, Ford FC1 or approved equal.

9. Gate Valves

Gate valves shall be manufactured and furnished in accordance with an approved pattern and shall conform to the requirements of AWWA C509 or C515 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.
- c. Valves shall have a 2-inch square operating nut opening counter-clockwise.
- d. All valves shall be of the non-rising stem type.
- e. Gate valves shall be designed with adjustable packing that can be maintained or removed without removing the valve bonnet.
- f. All exterior exposed bolts and nuts shall be stainless steel.
- g. Buried valves shall have mechanical joint ends complete with gasket, gland, and bolts. Exposed valves shall have flanged ends conforming to ANSI B16.1, Class 125 with full face gaskets. Bolts or valve flange shall be provided with means for preventing the bolt from slipping in the slotted holes.
- h. All buried gate valves shall be furnished with extension stems which extend to within one foot of the finished grade elevation. The extension stem shall have a 2-inch operating nut and be mechanically connected to the valve operator.
- i. All valves within structures or vaults shall have extension stems that extend to within 6 inches of the top of slab or other designated elevations shown on the drawings. Stem guides shall be provided for all valves within wet wells, vaults or other inaccessible locations.
- j. The exterior of the valve shall be supplied with an epoxy coating. 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. Bolts for flanged valves exposed to wastewater shall be stainless steel.