

Request for Bids <u>Water Department Stock</u> <u>Inventory</u>

City of Portsmouth, New Hampshire

Public Works Department Bid #16-22

Water Department Stock Inventory INVITATION TO BID

<u>Sealed</u> bid proposals, <u>plainly marked</u> Bid #16-22 Water Department Stock Inventory, <u>on the</u> <u>outside of the mailing envelope</u>, as <u>well as the sealed bid envelope</u>, delivered to the front desk at City Hall, 1 Junkins Avenue, Portsmouth, NH 03801, addressed to the Finance/Purchasing Department, will be accepted until <u>11:00 a.m., January 14, 2022</u> at which time bids will be publicly opened and read aloud.

Bid specifications and the price proposal pages may be obtained from the City's website <u>http://www.cityofportsmouth.com/finance/purchasing.htm</u>, by contacting the Finance/Purchasing Department on the third floor at the above address, or by calling the Purchasing Coordinator at 603-610-7227.

Addenda to this bid document, if any, including written answers to questions, will be posted on the City of Portsmouth website at <u>http://www.cityofportsmouth.com/finance/purchasing.htm</u> under the project heading. Addenda and updates will <u>NOT</u> be sent directly to vendors. Questions may be addressed to the Purchasing Coordinator.

The City of Portsmouth reserves the right to reject any or all bids, to waive technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the City.

If you have any questions please contact the Purchasing Coordinator at 603-610-7227.

Instruction to Bidders Water Dept. Stock Inventory

1. Preparation of Bid Proposal

SPECIAL ATTENTION TO INSTRUCTIONS

a) The City has provided with this bid document *a separate price proposal form in an excel spreadsheet format*. Bidder shall submit his/her proposal in hard copy and in electronic form. The electronic form of the price proposal may be submitted on a CD or a USB drive.

b) The bidder shall also complete an **Acknowledgement Form** which shall be submitted with the completed price proposal forms. The bidder's Acknowledgement Form must be signed with ink by the individual, by one or more members of the partnership, by one or more members or officers of each firm representing a joint venture; by one or more officers of a corporation, or by an agent of the contractor legally qualified and acceptable to the owner. If the proposal is made by an individual, his name and post office address must be shown, by a partnership the name and post office address of each partnership member must be shown; as a joint venture, the name and post office address of each must be shown; by a corporation, the name of the corporation and its business address must be shown, together with the name of the state in which it is incorporated, and the names, titles, and business addresses of the President, Secretary and Treasurer.

c) The bidder is not required to submit a bid for each unit item listed. For those unit items on which bidder submits a price, bidder shall specify a unit price for each pay item for which a quantity is given and shall also show the products of the respective unit prices and quantities in the column provided for that purpose. All words and figures shall be typed.

2. Irregular Proposals

Bid proposals will be considered irregular and may be rejected for any of the following reasons:

a) If the proposal is on a form other than that furnished by the City, or if the form is altered.

b) If there are unauthorized additions, conditional or alternated bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.

c) If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.

d) If any pricing between the hard copy and electronic copy are inconsistent.

3. <u>Delivery of Bid Proposals</u>

When sent by mail, the sealed proposal shall be addressed to the owner at the address and in the care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the invitation for bids. Proposals received after the time for opening of the bids will be returned to the bidder, unopened. Faxed bid proposal are <u>NOT</u> acceptable.

4. Withdrawal of Bid Proposals

A bidder will be permitted to withdraw his proposal unopened after it has been deposited if such request is received in writing prior to the time specified for opening the proposal.

5. Public Opening of Bid Proposals

Proposals will be opened and read publicly at the time and place indicated in the invitation for bids. Bidders, their authorized agents, and other interested parties are invited to be present.

6. Disqualification of Bidders

Any of the following reasons may be considered as being sufficient for the disqualification of a bidder and the rejection of his proposal or proposals:

- 1. More than one proposal for the same work from an individual, firm, or corporation under the same or different name;
- 2. Evidence of collusion among bidders;
- 3. Failure to submit all required information requested in the bid specifications;
- 4. Failure to pay, or satisfactorily settle, all bills due for labor and materials on former contracts;
- 5. Default or unsatisfactory performance on previous contracts; or
- 6. Such disqualification would be in the best interests of the Owner.

AWARD

1. <u>Award</u>

Within 30 calendar days after the opening of proposals, if an award is to be made, awards will be made to the lowest responsible and qualified bidder for each item that complies with all the requirements prescribed. The successful bidder will be notified, by email, that the bid has been accepted and awarded.

The award shall not be considered official until such time that a Purchase Order, fully executed contract or an award letter has been issued by the Finance Director. No presumption of award shall be made by the bidder until such documents are in hand. Verbal notification of award is not considered official. Any action by the bidder to assume otherwise is done so at his/her own risk and the City will not be held liable for any expense incurred by a bidder that has not received an official award.

2. Cancellation of Award

The City reserves the right to cancel an award at any time before notification to the successful bidder without any liability against the City. The City of Portsmouth reserves the right to reject any or all bids, to waive technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the City. The City reserves the right to cancel an award after notification if the Bidder, on more than one occasion, fails to fulfill the delivery requirements or if the products fail to perform or are otherwise lacking in quality. Should an award be cancelled, the City will award to the next lowest bidder if such bidder is prepared to commit to their bid price.

General Requirements and Conditions of Award Water Department Stock Inventory

It is the intent of this proposal to establish agreements to supply and deliver water stock inventory used in the water maintenance operations.

Any quantity specified is an estimate only. The City of Portsmouth will purchase just the quantities necessary, at various times, to perform the intended operations. Such purchased quantities may be equal to, less than, or greater than the estimates. **Prices are not to be based on minimum quantities or minimum truck loads.**

Bid prices shall remain firm for a period of one (1) year from the date of contract award. The City of Portsmouth reserves the right to negotiate an extension of the contract beyond the expiration date for a period not to exceed one (1) year.

Bid prices shall be FOB the Water/Sewer Maintenance Shop located at 680 Peverly Hill Road, Portsmouth, NH. **No added freight or handling charges will be allowed.** Delivery shall be made <u>within ten (10) working days of order date.</u> If vendor cannot meet the ten day delivery specification, notice must be made upon receiving order. Upon notice, the City shall have the right to fulfill its requirements with another vendor. Vendor may be responsible for the cost the City incurs to cover for the failure of vendor to make timely delivery. City will have the right to terminate the bid award if vendor does not meet the ten day delivery specifications, if product is defective or deficient in guality.

Each item will be considered on a separate item basis. This proposal does not require any bidder to submit an "all-or-none" bid. Award and quantities ordered will also be contingent upon funding.

Bid Specifications Water Stock Inventory Bid

 1. Flushing Hydrants – Flushing hydrants shall be post hydrants with a 5 foot bury. All working parts shall be brass with hydrant main valve opening being 2 3/16 inch. Inlet connection shall be 2 inch iron pipe, with the outlet being any size up to 2 1/2 inch NST. The operating parts shall be removable from above ground with no special wrenches. The self-draining, non-freeze hydrant barrel will be made of 3 inch ductile iron pipe and shall have a cast iron top stock. Hydrant shall have locking cover and will be a traffic break-away. Kupferle Model #77 or approved equal. 3/4" x 5' Bury 1" x 5' Bury 2" x 5' Bury 2" 1/2" x 5' Bury 2" 1/2" x 5' Bury 2 	
 2. Fire Hydrants - Fire hydrants shall be Kennedy K-81A Guardian with a 5 1/4 inch valve opening, regular lined, with shoe (or elbow). Hydrant drain shall be plugged. Joint at base of hydrant shall be a 6 inch estrained, mechanical joint. Opening direction specified at time of order. Operating nut shall be standing AWWA pentagon operating nut with 1 1/2 inch point to flat dimension. Two (2 1/2") and one (4 1/2") National Standard Hose thread nozzles. 5 1/4" Opening with 5', 5 1/ 6' or 6 1/2' Bury 	2',
 3. Fire Hydrant Inserts - Fire hydrant inserts shall be Kennedy K-81AW Guardian with a 4, 4 1/2, 5, or 5 1/4 inch valve opening, bronze lined. 6 1/2' Bury Hydrant drain shall be plugged. Joint at base of hydrant shall be a 6" restrained, mechanical joint. Opening direction shall be specified when ordered. Operating nut shall be standing AWWA pentagon operating nut with 1 1/2 inch point to flat dimension. Two (2 1/2") and one (4 1/2") National Standard Hose thread nozzles. 4", 4 1/2", 5" and 5 1/4" O with 5', 5 1/2', 6' or 6 ½ Bu with 5', 5 1/2', 6' or 6' ½ Bu with 5', 5 1/2', 6' or 6' ½ Bu with 5', 5 1/2', 6' or 6' ½ Bu with 5', 5 1/2', 6'	
4.Hydrant Elbows - Ductile Iron, M.J. Epoxy coated. Elbows to fit Mathews & Kennedy K-81A.6" for 4 " Hydrant 6" for 4 1/2" Hydrant 6" for 5" Hydrant 6" for 5 1/4" Hydrant	

6.	Ground Frost Sleeves for use on hydrant	5', 5 1/2', 6', 6 1/2'
	bury (made of PVC).	
7.	Breakaway Kit for K-11 Kennedy Hydrant	5 1/4" Opening
8.	Breakaway Kit for K-81A Kennedy Hydrant	5 1/4" Opening
9.	Coupling for K-81A Breakaway complete w/pins & clips	5 1/4" Opening
	w/pins & clips Coupling for Kit-11 Breakaway complete w/pins	5 1/4" Opening
10.	Sampling Station shall be 5 foot bury with a 3/4" FIP inlet, and a (3/4" hose or unthreaded) nozzle. All stations shall be enclosed in a lockable, non-removable, aluminum-cast housing. When opened, the station shall require no key for operation, and the water will flow in an all-brass waterway. All working parts will also be of brass and removable from above ground with no digging. A copper vent tube will enable each station to be pumped free of standing water to prevent freezing and to minimize bacteria growth. The exterior piping will be galvanized.	3/4" x 5'
11.	Tapping Gate Valves and Tapping Sleeves complete, stainless steel with megalug gland, rubbers, gaskets nuts and bolts, gasket on flanged facing 2" square hub nut, open right or left and so indicated on hub nut, valve body and bonnet shall be fusion bonded epoxy coated inside and out at least 8 mil. thick. Stem shall be sealed at least two "O" rings and non-rising type. One outlet shall be flanged to fitted Standard same size tapping sleeve flange. All gate valves shall conform to A.W.W.A. Standard C-509 (latest version) for resilient sealed tapping gate valves.	4x4, 6x6, 6x4, 8x8, 8x6, 8x4, 10x10, 10x8, 10x6, 10x4, 12x12, 12x10, 12x8, 12x6, 12x4, 20x,8, 20x6,20x4
12.	Gate Valves with bolts, megalug glands, and gaskets, 2" square hub nut, open right or left and indicated on the hub nut, <u>M.J.</u> <u>Valve body</u> and bonnet shall be fusion bonded epoxy coated, inside and out at least 8 mil. thick. Stem shall be sealed by at least two "O" rings and non-rising type. All gate valves shall conform to A.W.W.A. Standard C-509 (latest revision) for resilient sealed gates valves.	4", 6", 8", 10", 12"

13.	Gate Boxes 6" complete with top, bottom, and cover. Valve boxes shall be cast iron, two piece sliding type with a top flange and a minimum inside shaft diameter of 5 1/4". Boxes shall have the word "water" clearly cast into the cover. Boxes to extend 36" to 60". Box base shall be belled. Cover shall be heavy 2"drop type, non-tilting and is recessed in the box top with pick holes for easy removal.	
13a.	Valve Box Adaptor II	
13b.	Gate Box Bottom extra-long.	
14.	1" Gate Box Risers for 6" Gate Box 5 1/4" opening, cast iron.	
15.	2" and 3" Gate Box Riser for 6" Gate Box 5 1/4" opening, cast iron.	
16.	Gate Box Adaptors (5 1/4") adjustable adaptor range 2 1/2" to 12" cast iron. Mueller #H-10377 or 12" EJP Box top extension #45245 or equal.	
16a.	Gate Box Adaptors (5 ¼") adjustable adaptor range 2 ½" to 18" cast iron. Mueller #H-10377 or 18" EJP Box top extension #45245 or equal.	
16b.	Complete Megalug Gland Kits, include megalug gland, gaskets, nuts and bolts.	4", 6",8",10",12",14",16",18"
17.	Cutting-In Sleeve complete with gasket, bolts, megalug glands. Clow or approved equal. "Must be compatible with cutting-in gate".	4",6",8",10",12"
18.	Cutting-In Gate, non-rising stem, 2" operating nut, open right, "O" ring seal, M.J. ends, bolts, flange and rubbers. Clow or approved equal. "Must be compatible with cutting-in sleeve".	4",6",8",10",12"
19.	6 Plugs, Ductile Iron, Class 350, "Tyton" or push-in with set screws.	4", 6", 8", 10", 12"
20.	Caps, M.J., solid with retaining flanges, Ductile Iron, complete with megalug glands, rubber gaskets, nuts and bolts. Shall be asphalt coated inside and out.	4", 6", 8",10",12"
21.	Caps, M.J., with 2" I.P. Tap, Ductile Iron, complete with megalug glands, nuts and bolts. Shall be asphalt coated inside and out.	4", 6", 8",10",12"

	epartment Stock Inventory	Bid #16-22
22.	Reducer, Ductile Iron, M.J., Class 350 complete with megalug glands, rubber gaskets, bolts and nuts.	4", 6", 8", 10",12"
23.	Tapping Saddle, Double Strap, outlet CC (AWWA) threads, complete with gaskets, nuts and washers.	2", 4", 6", 8",10",12",16",20"
24.	M.J. Hydrant Tee, Ductile Iron M.J, Class 350, complete with megalug glands, rubbers, gaskets, bolts and nuts.	6X6, 8X6, 10X6, 12X6
25.	Tee, Ductile Iron, M.J., Class 350, complete with megalug glands, rubbers, gaskets, bolts and nuts.	4", 6', 8", 10", 12"
25a.	Solid Sleeves Ductile Iron complete with megalug glands, rubbers, gaskets, bolts and nuts.	4 ", 6", 8", 10", 12", 16"
26.	Elbows, Ductile Iron, Cement Lined, Asphalt coated outside. Mechanical joint ends complete with bolts, megalug glands and gaskets. Must conform to latest A.W.W.A. standards. Rated for 350 psi.	4", 6", 8",10",12"
27.	Pipe, Ductile Iron, Cement Lined, Class 52, "Tyton" or push-on joint, asphalt coated outside. Pipe shall meet or exceed all applicable A.W.W.A. standards (latest revision). All necessary rubber gaskets and fitting lubricants and brass wedges as required by manufacture shall be supplied with the pipe.	4", 6", 8", 10", 12", 16", 20"
27a.	Poly Bags for Pipe	
28.	Brass Bushings, I.P. Inlet Thread x I.P. Outlet Thread	1" x 3/4", 1 1/4" x 3/4", 11/4" x 1 1 1/2" x 3/4", 1 1/2" x1", 2" x 3/4 2" x 1", 2" x 1 1/4", 2" x 1 1/2", 2 1/2" x 2"
29.	Copper Tubing, Type K, Soft	3/4", 1", 1 1/4", 1 1/2", 2"
30.	Corporation, Brass, Ball Type. Tapered A.W.W.A. thread (CC) inlet with compression pack joint (PPJ) outlet	3/4", 1", 1 1/4", 1 1/2", 2"
31.	Corporation, Ball Type, Brass. Inlet Iron Pipe (I.P.) with compression pack joint outlet (PPJ).	3/4", 1", 1 1/4", 1 1/2", 2"
32.	Corporation Stop Coupling, Brass Brass. Inlet Iron Pipe (I.P.) with compression pack joint outlet (PPJ)	5 /8"x3/4", 3/4"x3/4", 1"x1", 1" x 3/4", 1"x 1 1/4", 1"x1 1/2"

sunk bronze or brass pentagon plug. Stainless steet 24" rods only. Boxes to extend 4 1/2' to 5 1/2' for 3/4" x 1" curb stops.34. Curb Box Covers35. Buffalo Repair Lids 2 1/2" for old style buffalo type curb boxes.36. Curb box repair cover with countersunk bronze or brass plug with set screw.1"37. Brass pentagon plug for curb box.1"38. Curb box foot piece with enlarged base, heavy duty, to convert curb boxes to fit 1 1/2" to 2" curb stops.3", 6", 12"39. Curb box riser with set screws (service box extension).3", 6", 12"40. Curb Stop, Ball Valve, Brass, with compression packed joint (PPJ) both ends.3/4", 1", 1 1/4", 1 1/2", 2"41. Curb Stop, Ball Valve, Brass, with inlet female iron pipe (F.I.P.) and outlet compression packed joint (PP.J.).3/4", 1", 1 1/4", 1 1/2", 2"43. Female Adaptors. Brass Inlet Compression packed joint (PP.J.) end.3/4", 1", 1 1/4", 1 1/2", 2" and 2 1/2"44. Elbows, brass, I.P. thread.3/4", 1", 1 1/4", 1 1/2", 2"44. Elbows, brass, I.P. thread.3/4", 1", 1 1/4", 1 1/2", 2"44. Elbows, brass, I.P. thread.3/4", 1", 1 1/4", 1 1/2", 2"46. Nipples, Brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2"47. Nipples, close, brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2"48. Plug, brass, tapered, Corporation CC thread./4", 1", 1 1/4", 1 1/2", 2"	77	Partment Stock Inventory	Bid #16-22
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 Buffalo Repair Lids 2 1/2" for old style buffalo type curb boxes. Curb box repair cover with countersunk bronze or brass plug with set screw. Brass pentagon plug for curb box. Curb box foot piece with enlarged base, heavy duty, to convert curb boxes to fit 1 1/2" to 2" curb stops. Curb box riser with set screws (service box extension). Curb Stop, Ball Valve, Brass, with compression packed Joint (PPJ) both ends. Curb Stop, Ball Valve, Brass, with female iron pipe (F.I.P.) both ends. Curb Stop, Ball Valve, Brass, with female iron pipe (F.I.P.) and outlet compression packed joint (PP.J). Female Adaptors. Brass Inlet Compression packed joint (PP.J) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ Elbows, brass, I.P. thread. Elbows, brass, I.P. thread. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). Nipples, Brass, threaded both ends. Male, T. 1.1/4", 1.1/2", 2" Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). Nipples, close, brass, threaded both ends. Mathematical (M.T.)", 2", 2" Plug, brass, tapered, Corporation CC thread. 		stops.	
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buffalo type curb boxes.36. Curb box repair cover with countersunk bronze or brass plug with set screw.1"37. Brass pentagon plug for curb box.1"38. Curb box foot piece with enlarged base, heavy duty, to convert curb boxes to fit 1 1/2" to 2" curb stops.1"39. Curb box riser with set screws (service box extension).3", 6",12"40. Curb Stop, Ball Valve, Brass, with compression packed joint (PPJ) both ends.3/4", 1", 1 1/4", 1 1/2", 2"41. Curb Stop, Ball Valve, Brass, with female iron pipe (F.I.P.) both ends.3/4", 1", 1 1/4", 1 1/2", 2"42. Curb Stop, Ball Valve, Brass, with female iron pipe (F.I.P.) and outlet compression packed joint (PPJ) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end.3/4", 1", 1 1/4", 1 1/2", 2" and 2 1/2"43. Female Adaptors Brass Inlet compression packed joint (PPJ) x PPJ3/4", 1", 1 1/4", 1 1/2", 2"44. Elbows, brass, I.P. thread.3/4", 1", 1 1/4", 1 1/2", 2"44. Elbows, brass, I.P. thread.3/4", 1", 1 1/4", 1 1/2", 2"45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.).3/4", 1", 1 1/4", 1 1/2", 2"46. Nipples, Brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2"47. Nipples, close, brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2"48. Plug, brass, tapered, Corporation CC thread./4", 1", 1 1/4", 1 1/2", 2"			
 36. Curb box repair cover with countersunk bronze or brass plug with set screw. 37. Brass pentagon plug for curb box. 38. Curb box foot piece with enlarged base, heavy duty, to convert curb boxes to fit 1 1/2" to 2" curb stops. 39. Curb box riser with set screws (service box extension). 40. Curb Stop, Ball Valve, Brass, with compression packed joint (PPJ) both ends. 41. Curb Stop, Ball Valve, Brass, with female iron pipe (F.I.P.) both ends. 42. Curb Stop, Ball Valve, Brass, with inlet female iron pipe (F.I.P.) both ends. 43. Female Adaptors. Brass Inlet Compression packed joint (PP.J.). 43. Female Adaptors. Brass Inlet Compression packed joint (PP.J.). 44. Elbows, brass, I.P. thread. 45. Male adaptors, Brass. Inlet male iron pipe (I.P.) and. 44. Elbows, brass, I.P. thread. 45. Male adaptors, brass. Inlet male iron pipe (I.P.). 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 47. Nipples, close, brass, threaded both ends. 48. Plug, brass, tapered, Corporation CC thread. 	35.		
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 38. Curb box foot piece with enlarged base, heavy duty, to convert curb boxes to fit 1 1/2" to 2" curb stops. 39. Curb box riser with set screws (service box extension). 40. Curb Stop, Ball Valve, Brass, with compression packed joint (PPJ) both ends. 41. Curb Stop, Ball Valve, Brass, with female iron pipe (F.I.P.) both ends. 42. Curb Stop, Ball Valve, Brass, with inlet female iron pipe (F.I.P.) and outlet compression packed joint (P.P.J.). 43. Female Adaptors. Brass Inlet Compression packed joint (P.P.J.). 44. Elbows, brass, I.P. thread. 44. Elbows, brass, threaded both ends. 44. Nipples, close, brass, threaded both ends. 			
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 extension). 40. Curb Stop, Ball Valve, Brass, with compression packed joint (PPJ) both ends. 41. Curb Stop, Ball Valve, Brass, with female iron pipe (F.I.P.) both ends. 42. Curb Stop, Ball Valve, Brass, with inlet female iron pipe (F.I.P.) and outlet compression packed joint (P.P.J.). 43. Female Adaptors. Brass Inlet Compression packed joint (PPJ) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end. 43a. Female Adaptors Brass Inlet compression packed joint PPJ end. 44. Elbows, brass, I.P. thread. 44. Elbows, brass, I.P. thread. 45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2", 2 1/2 by 2", 4" and 6". 47. Nipples, close, brass, threaded both ends. 44. Plug, brass, tapered, Corporation CC thread. 44. Plug, brass, tapered, Corporation CC 		1/2" to 2" curb stops.	
 extension). 40. Curb Stop, Ball Valve, Brass, with compression packed joint (PPJ) both ends. 41. Curb Stop, Ball Valve, Brass, with female iron pipe (F.I.P.) both ends. 42. Curb Stop, Ball Valve, Brass, with inlet female iron pipe (F.I.P.) and outlet compression packed joint (P.P.J.). 43. Female Adaptors. Brass Inlet Compression packed joint (PPJ) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end. 43a. Female Adaptors Brass Inlet compression packed joint PPJ end. 44. Elbows, brass, I.P. thread. 44. Elbows, brass, I.P. thread. 45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2", 21/2 by 2", 4" and 6". 47. Nipples, close, brass, threaded both ends. 44. Plug, brass, tapered, Corporation CC thread. 44. Plug, brass, tapered, Corporation CC 	30	Curb box riser with set screws (service box	3" 6" 12"
 40. Curb Stop, Ball Valve, Brass, with compression packed joint (PPJ) both ends. 41. Curb Stop, Ball Valve, Brass, with female iron pipe (F.I.P.) both ends. 42. Curb Stop, Ball Valve, Brass, with inlet female iron pipe (F.I.P.) and outlet compression packed joint (P.P.J.). 43. Female Adaptors. Brass Inlet Compression packed joint (PPJ) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the Female (F.I.P.) end. 43. Female Adaptors Brass Inlet compression packed joint PPJ end and male iron pipe thread on the female (F.I.P.) end. 43. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ 44. Elbows, brass, I.P. thread. 44. Elbows, brass, I.P. thread. 44. Elbows, brass, I.P. thread. 45. Male adaptors, brass. Inlet male iron pipe (I.P.). outlet compression packed joint (P.J.). 46. Nipples, Brass, threaded both ends. 47. Nipples, close, brass, threaded both ends. 48. Plug, brass, tapered, Corporation CC thread. 	55.		
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compression packed joint (PPJ) both ends.41. Curb Stop, Ball Valve, Brass, with female iron pipe (F.I.P.) both ends.3/4", 1", 1 1/4", 1 1/2", 2"42. Curb Stop, Ball Valve, Brass, with inlet female iron pipe (F.I.P.) and outlet compression packed joint (P.P.J.).3/4", 1", 1 1/4", 1 1/2", 2"43. Female Adaptors. Brass Inlet Compression packed joint (PPJ) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end.3/4", 1", 1 1/4", 1 1/2", 2" and 2 1/2"43. Female Adaptors Brass Inlet compression packed joint (PPJ) with outlet female iron pipe (F.I.P.) end.3/4", 1", 1 1/4", 1 1/2", 2" and 2 1/2"43. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ3/4", 1", 1 1/4", 1 1/2", 2"44. Elbows, brass, I.P. thread.3/4", 1", 1 1/4", 1 1/2", 2"44. Elbows, brass PPJ x PPJ3/4", 1", 1 1/4", 1 1/2", 2"45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.).3/4", 1", 1 1/4", 1 1/2", 2"46. Nipples, Brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2"47. Nipples, close, brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2"48. Plug, brass, tapered, Corporation CC thread./4", 1", 1 1/4", 1 1/2", 2"	40.	Curb Stop, Ball Valve, Brass, with	3/4", 1", 1 1/4". 1 1/2". 2"
 41. Curb Stop, Ball Valve, Brass, with female iron pipe (F.I.P.) both ends. 42. Curb Stop, Ball Valve, Brass, with inlet female iron pipe (F.I.P.) and outlet compression packed joint (P.P.J.). 43. Female Adaptors. Brass Inlet Compression packed joint (PPJ) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end. 43a. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ 44. Elbows, brass, I.P. thread. 44. Elbows, brass PPJ x PPJ 44. Elbows, brass PPJ x PPJ 44. Elbows, brass, I.P. thread. 44. Elbows, brass, threaded both ends. 44. Nipples, Brass, threaded both ends. 44. Nipples, close, brass, threaded both ends. 44. Nipples, close, brass, threaded both ends. 44. Nipples, close, brass, threaded both ends. 45. Nipples, close, brass, threaded both ends. 46. Nipples, brass, tapered, Corporation CC thread. 47. Nipples, close, brass, threaded both ends. 48. Plug, brass, tapered, Corporation CC thread. 			,,,,-
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 42. Curb Stop, Ball Valve, Brass, with inlet female iron pipe (F.I.P.) and outlet compression packed joint (P.P.J.). 43. Female Adaptors. Brass Inlet Compression packed joint (PP.J) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end. 43a. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ 44. Elbows, brass, I.P. thread. 44. Elbows, brass PJ x PPJ 45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). 46. Nipples, Brass, threaded both ends. 47. Nipples, close, brass, threaded both ends. 48. Plug, brass, tapered, Corporation CC thread. 	41.	Curb Stop, Ball Valve, Brass, with female	3/4", 1", 1 1/4", 1 1/2", 2"
 42. Curb Stop, Ball Valve, Brass, with inlet female iron pipe (F.I.P.) and outlet compression packed joint (P.P.J.). 43. Female Adaptors. Brass Inlet Compression packed joint (PP.J) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end. 43a. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ 44. Elbows, brass, I.P. thread. 44. Elbows, brass PJ x PPJ 45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). 46. Nipples, Brass, threaded both ends. 47. Nipples, close, brass, threaded both ends. 48. Plug, brass, tapered, Corporation CC thread. 		iron pipe (F.I.P.) both ends.	
female iron pipe (F.I.P.) and outlet compression packed joint (P.P.J.).3/4", 1", 1 1/4", 1 1/2", 2" by 3/443. Female Adaptors. Brass Inlet Compression packed joint (PPJ) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end.3/4", 1", 1 1/4", 1 1/2", 2" by 3/443a. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ3/4" by 1"44. Elbows, brass, I.P. thread.3/4", 1", 1 1/4", 1 1/2", 2"44. Elbows, brass PPJ x PPJ3/4", 1", 1 1/4", 1 1/2", 2"45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.).3/4", 1", 1 1/4", 1 1/2", 2"46. Nipples, Brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2", 2 * 1/2 by 2", 4" and 6"47. Nipples, close, brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2"48. Plug, brass, tapered, Corporation CC thread./4", 1", 1 1/4", 1 1/2", 2"			
female iron pipe (F.I.P.) and outlet compression packed joint (P.P.J.).3/4", 1", 1 1/4", 1 1/2", 2" by 3/443. Female Adaptors. Brass Inlet Compression packed joint (PPJ) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end.3/4", 1", 1 1/4", 1 1/2", 2" and 2 1/2"43. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ3/4" by 1"44. Elbows, brass, I.P. thread.3/4", 1", 1 1/4", 1 1/2", 2"44. Elbows, brass PPJ x PPJ3/4", 1", 1 1/4", 1 1/2", 2"45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.).3/4", 1", 1 1/4", 1 1/2", 2"46. Nipples, Brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2", 2 *47. Nipples, close, brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2"48. Plug, brass, tapered, Corporation CC thread./4", 1", 1 1/4", 1 1/2", 2"	42.	Curb Stop, Ball Valve, Brass, with inlet	3/4", 1", 1 1/4", 1 1/2", 2"
 compression packed joint (P.P.J.). 43. Female Adaptors. Brass Inlet Compression packed joint (PPJ) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end. 43a. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ 44. Elbows, brass, I.P. thread. 44. Elbows, brass PPJ x PPJ 45. Male adaptors, brass. Inlet male iron pipe (I.P.).). 46. Nipples, Brass, threaded both ends. 47. Nipples, close, brass, threaded both ends. 48. Plug, brass, tapered, Corporation CC thread. 		female iron pipe (F I P) and outlet	
 43. Female Adaptors. Brass Inlet Compression packed joint (PPJ) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end. 43a. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ 44. Elbows, brass, I.P. thread. 44. Elbows, brass PPJ x PPJ 44. Elbows, brass PPJ x PPJ 45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). 46. Nipples, Brass, threaded both ends. 47. Nipples, close, brass, threaded both ends. 48. Plug, brass, tapered, Corporation CC thread. 			
 packed joint (PPJ) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end. 43a. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ 44. Elbows, brass, I.P. thread. 3/4", 1", 1 1/4", 1 1/2", 2" 44a. Elbows,brass PPJ x PPJ 3/4", 1", 1 1/4", 1 1/2", 2" 45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.F.J.). 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 48. Plug, brass, tapered, Corporation CC thread. 			
 packed joint (PPJ) with outlet female iron pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end. 43a. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ 44. Elbows, brass, I.P. thread. 3/4", 1", 1 1/4", 1 1/2", 2" 44a. Elbows,brass PPJ x PPJ 3/4", 1", 1 1/4", 1 1/2", 2" 45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.F.J.). 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 48. Plug, brass, tapered, Corporation CC thread. 	43.	Female Adaptors. Brass Inlet Compression	3/4", 1", 1 1/4", 1 1/2", 2" by 3/4
pipe (F.I.P.) which accepts copper tubing on the PPJ end and male iron pipe thread on the female (F.I.P.) end.43a. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ3/4" by 1"44. Elbows, brass, I.P. thread.3/4", 1", 1 1/4", 1 1/2", 2"44a. Elbows, brass PPJ x PPJ3/4", 1", 1 1/4", 1 1/2", 2"45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.).3/4", 1", 1 1/4", 1 1/2", 2"46. Nipples, Brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6"47. Nipples, close, brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2"48. Plug, brass, tapered, Corporation CC thread./4", 1", 1 1/4", 1 1/2", 2"		packed joint (PPJ) with outlet female iron	1", 1 1/4", 1 1/2", 2" and 2 1/2"
the PPJ end and male iron pipe thread on the female (F.I.P.) end.3/4" by 1"43a. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ3/4", by 1"44. Elbows, brass, I.P. thread.3/4", 1", 1 1/4", 1 1/2", 2"44a. Elbows, brass PPJ x PPJ3/4", 1", 1 1/4", 1 1/2", 2"45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.).3/4", 1", 1 1/4", 1 1/2", 2"46. Nipples, Brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2", 2 ", 2 1/2 by 2", 4" and 6"47. Nipples, close, brass, threaded both ends.3/4", 1", 1 1/4", 1 1/2", 2"48. Plug, brass, tapered, Corporation CC thread./4", 1", 1 1/4", 1 1/2", 2"		pipe (F.I.P.) which accepts copper tubing on	
the female (F.I.P.) end. 3/4" by 1" 43a. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ 3/4" by 1" 44. Elbows, brass, I.P. thread. 3/4", 1", 1 1/4", 1 1/2", 2" 44a. Elbows, brass PPJ x PPJ 3/4", 1", 1 1/4", 1 1/2", 2" 45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). 3/4", 1", 1 1/4", 1 1/2", 2" 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread. 3/4", 1", 1 1/4", 1 1/2", 2"			
43a. Female Adaptors Brass Inlet compression packed joint PPJ x PPJ 3/4" by 1" 44. Elbows, brass, I.P. thread. 3/4", 1", 1 1/4", 1 1/2", 2" 44a. Elbows, brass PPJ x PPJ 3/4", 1", 1 1/4", 1 1/2", 2" 45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). 3/4", 1", 1 1/4", 1 1/2", 2" 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread. 1/4", 1", 1 1/4", 1 1/2", 2"			
packed joint PPJ x PPJ 3/4", 1", 1 1/4", 1 1/2", 2" 44. Elbows, brass, I.P. thread. 3/4", 1", 1 1/4", 1 1/2", 2" 44a. Elbows,brass PPJ x PPJ 3/4", 1", 1 1/4", 1 1/2", 2" 45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). 3/4", 1", 1 1/4", 1 1/2", 2" 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread. /4", 1", 1 1/4", 1 1/2", 2"			
packed joint PPJ x PPJ 3/4", 1", 1 1/4", 1 1/2", 2" 44. Elbows, brass, I.P. thread. 3/4", 1", 1 1/4", 1 1/2", 2" 44a. Elbows,brass PPJ x PPJ 3/4", 1", 1 1/4", 1 1/2", 2" 45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). 3/4", 1", 1 1/4", 1 1/2", 2" 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread. /4", 1", 1 1/4", 1 1/2", 2"	43a.		3/4" by 1"
44. Elbows, brass, I.P. thread. 3/4", 1", 1 1/4", 1 1/2", 2" 44a. Elbows,brass PPJ x PPJ 3/4", 1", 1 1/4", 1 1/2", 2" 45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). 3/4", 1", 1 1/4", 1 1/2", 2" 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread. /4", 1", 1 1/4", 1 1/2", 2"			
44a. Elbows,brass PPJ x PPJ 3/4", 1", 1 ½", 2" 45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). 3/4", 1", 1 1/4", 1 1/2", 2" 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread. /4", 1", 1 1/4", 1 1/2", 2"			
45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). 3/4", 1", 1 1/4", 1 1/2", 2" 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread. 3/4", 1", 1 1/4", 1 1/2", 2"	44.	Elbows, brass, I.P. thread.	3/4", 1", 1 1/4", 1 1/2", 2"
45. Male adaptors, brass. Inlet male iron pipe (I.P.) outlet compression packed joint (P.P.J.). 3/4", 1", 1 1/4", 1 1/2", 2" 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread. 3/4", 1", 1 1/4", 1 1/2", 2"	44a	Flbows brass PP.I x PP.I	3/4" 1" 1 1⁄2" 2"
(I.P.) outlet compression packed joint (P.P.J.). 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread.	, , , .		S/1, 1, 1/2, 2
(I.P.) outlet compression packed joint (P.P.J.). 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread.	45.		3/4", 1", 1 1/4", 1 1/2", 2"
 (P.P.J.). 46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC /4", 1", 1 1/4", 1 1/2", 2" 			
46. Nipples, Brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2 by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread. /4", 1", 1 1/4", 1 1/2", 2"			
by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread.			
by 2", 4" and 6" 47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread.	46.	Nipples, Brass, threaded both ends.	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2
47. Nipples, close, brass, threaded both ends. 3/4", 1", 1 1/4", 1 1/2", 2" 48. Plug, brass, tapered, Corporation CC thread. /4", 1", 1 1/4", 1 1/2", 2"			by 2", 4" and 6"
48. Plug, brass, tapered, Corporation CC /4", 1", 1 1/4", 1 1/2", 2" thread.			
thread.	47.	Nipples, close, brass, threaded both ends.	3/4", 1", 1 1/4", 1 1/2", 2"
thread.	10		
	48		/4", 1", 1 1/4", 1 1/2", 2"
	10.	throad	
49. Plug, brass, IP thread 3/4", 1", 1 1/4", 1 1/2", 2"	10.	lineau.	

Water Department Stock Inventory	Bid #16-22
50. Coupling, reducer, brass. Both ends female iron pipe (F.I.P.).	1", 1 1/4", 1 1/2", 2"x 3/4", 1 1/4", 1 1/2", 2"x 1", 1 1/2", 2"x 1 1/4", 2"x1 1/2", 2"x2"
51. Cast Coupling, 2 bolt style shall be Rockwell brand type 411 or approved equal. Couplings shall be provided with all necessary glands, rubber gaskets, nuts and bolts.	3/4", 1", 1 1/4", 1 1/2", 2" Body Length - 6"
51a.Hymax Coupling, 1.5 OD TO 24" OD. All couplings and all Transition Couplings.	2", 4", 6",8",10", 10"o.s., 12", 12"o.s., 14", 14"o.s, 16", 18", 20", 24"
52. Cast Coupling, 4 bolt style, shall be Rockwell brand 441 or approved equal. Shall be complete with all necessary gland, rubber gaskets, nuts and bolts.	4", 6", 8", 10", 12", 14", 16" and 20"
53. Transition Coupling DI to A	4", 6", 8", 10", 12" (All by 6")
54. Transition Coupling AC to DI	2"x 6"
55. Full Circle Clamp, Full Stainless Steel, complete with gaskets, stainless steel bolts and stainless steel nuts.	2",4",6",8",12", 20" x 7 1/2, 4", 6", 8", 10", 12", 14", 16", 18", 20", 24" x 12 1/2", 4", 6", 8", 10", 12", 14", 18", 20", 24"x20", 10", 14", 16", 20"x10 4", 6", 8", 10", 12", 14", 16", 18", 20", 24"x15", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24"x24"
56. Bell Joint Leak Clamp for cast iron or ductile iron pipe, complete with gaskets, nuts and bolts. Body to be made of ductile iron.	4", 6", 8", 10", 12", 14", 16", 20"
57. Union, 3 piece, brass. Compression packed joint (PPJ) both ends.	3/4", 1", 1 1/4", 1 1/2", and 2"
58. Pipe Coupling, brass, threaded IP x IP.	3/4", 1", 1 1/4", 1 1/2", 2" and 2 1/2"
59. Ball Valves, Brass, with female iron pipe (F.I.P.) both end, Full Port	3/4", 1", 1 1/4", 1 1/2", 2"
60. Caps, Brass, Threaded	3/4", 1", 1 1/4", 1 1/2", 2
61. Tees, brass, I.P. Thread	3/4", 1", 1 1/4", 1 1/2", 2"
62. Tees, brass. PPJ x PPJ x IP	2"x2"x3/4"
63. Foster Adaptor with Kits	4", 6", 8", 10", 12"
64. Rod Clamps	4", 6", 8", 10", 12"

Water Department Stock Inventory		Bid #16-22	
65.	3/4" Duct Lugs		
66.	Threaded rod couplings, rod clamp washer and hex nuts	5/8" x 6', ¾" x 6'	
66a.	Tie bolts	5/8" x 3", 3/4" x 4"	

ALL BRASS PARTS WILL BE A.W.W.A. STANDARD C-800 OR LATEST REVISION.

ALL WETTED BRASS SURFACES WILL MEET THE FEDERAL LAW OF JANURARY 2014.

BID #16-22 Water Department Stock Inventory Price Proposal Form

The Price Proposal form can be found in excel format at the City of Portsmouth website under the project heading. <u>http://www.cityofportsmouth.com/finance/purchasing-bids-and-proposals</u>.

The price proposal form is posted separately in excel format to make it easier for bidders to submit their pricing in both hard copy and electronic copy as required in the bid specifications.

ACKNOWLEDGEMENT

FORM

Water Department Stock Inventory

This Acknowledgement Form is to be completed and submitted with price proposal form.

The undersigned agrees that he/she on behalf of Bidder has read the bid proposal documents and instruction to bidders and agrees to the terms and conditions set forth herein. The Bidder specifically understands that the City is under no obligation to purchase a particular quantity of the products listed. Bidder also understands that bid prices shall include delivery FOB to the address identified in the bid documents.

Bidder further agrees that this bid is not made jointly or in conjunction, cooperation or collusion with any person, firm, corporation or other legal entity.

Bidder agrees no officer, agent or employee of the Owner is directly or indirectly interested in this Bid.

Bidder agrees that the bid prices in the hard copy and electronic copy submitted are identical.

Submitted by Authorized Agent:

	(Print Name & Title)	-
Signature:		
Date:		
Company:		
Address:		
City/State/Zip:		
Telephone:	Fax:	
Email:		