

Document 00910

ADDENDUM NO. 2

Date of Addendum: 2/3/12

PROJECT NAME: Water Distribution System Rehabilitation and Renewal (UMB)

PROJECT NO: WBS No. S-000035-0169-4, File No. WA 11043

BID DATE: February 9, 2012 (There is no change to the Bid Date.)

FROM: Carl W. Smitha, P.E., City Engineer
City of Houston, Public Works & Engineering Department
611 Walker Street
Houston, Texas 77002
Attn: Syed Moinuddin, P.E., Supervising Engineer

TO: Prospective Bidders

This Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

CHANGES TO PROJECT MANUAL

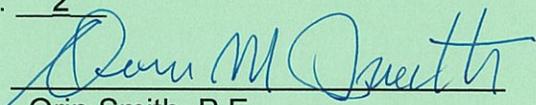
BIDDING REQUIREMENTS

1. Document 00410B Bid Form. Replace with the attached Document 00410B Bid Form.

SPECIFICATIONS

2. Document 01110-Summary of Work. Replace with the attached Document 01110- Summary of Work.

END OF ADDENDUM NO. 2

Signed: 

Orin Smith, P.E.
Managing Engineer
Utility Maintenance Branch,
Public Utilities Division

END OF DOCUMENT

Document 00911

NOTICE OF
ADDENDUM NO. 2

Date of Addendum: 2 | 3 | 12

PROJECT NAME: Water Distribution System Rehabilitation and Renewal (UMB)

PROJECT NO: WBS No. S-000035-0169-4, File No. WA 11043

BID DATE: February 9, 2012 (There is no change to the Bid Date.)

FROM: Orin Smith, P.E., Managing Engineer
City of Houston, Public Works & Engineering Department
2700 Dalton
Houston, Texas 77017
Attn: Syed Moinuddin, P.E., Supervising Engineer

TO: Prospective Bidders

Written questions regarding this Addendum may be submitted to the Project Manager following the procedures specified in Document 00200 – Instructions to Bidders. Immediately notify the City Engineer through the named Project Manager upon finding discrepancies or omissions in the Bid Documents.

This Addendum includes:

ADDENDUM SYNOPSIS

Changes to Project Manual
Bid documents and
Specifications

Signed: 
Orin Smith, P.E.
Managing Engineer
Public Utilities Division

END OF DOCUMENT

Document 00410B
BID FORM - PART B

B. BASE UNIT PRICE TABLE:

Item No.	Section No.	Item Description	Unit Measure	Unit Quantity	Unit Price (This Col. Controls)	Unit Price Total
1	02511	Point Repair by Replacing 6' of 5/8" to 1-1/2" Diameter (Dia) Water Line, All Depths	Each	25	\$550.00	\$13,750.00
2	02511	5/8" to 1-1/2" Dia Water Line, All Depths, for lengths above 6' to 30'	L.F.	200	\$45.00	\$9,000.00
3	02511	5/8" to 1-1/2" Dia Water Line, All Depths, for lengths above 30' to 100'	L.F.	90	\$40.00	\$3,600.00
4	02511	5/8" to 1-1/2" Dia Water Line, All Depths, Greater than 100' Length	L.F.	150	\$35.00	\$5,250.00
5	02511	Cut and Plug 5/8" to 1" Water Line, All Depths	Each	10	\$200.00	\$2,000.00
6	02511	Point Repair by Replacing 6' of 2" - 4" Dia Water Line, Up to 6' Depth	Each	35	\$1,000.00	\$35,000.00
7	02511	2" - 4" Water Line, Up to 6' Depth, for lengths above 6' to 30'	L.F.	150	\$40.00	\$6,000.00
8	02511	2" - 4" Water Line Up to 6' Depth, for lengths above 30' to 100'	L.F.	75	\$35.00	\$2,625.00
9	02511	2" - 4" Water Line Up to 6' Depth, Greater than 100'	L.F.	50	\$30.00	\$1,500.00
10	02516	Cut and Plug 2" to 4" Water Line, Up to 6' Depth	Each	15	\$600.00	\$9,000.00
11	02511	Point Repair by Replacing 6' of 2" - 4" Dia Water Line, Over 6' Depth	Each	30	\$1,250.00	\$37,500.00
12	02511	2" - 4" Water Line Over 6' Depth, for lengths above 6' to 30'	L.F.	100	\$45.00	\$4,500.00
13	02511	2" - 4" Water Line Over 6' Depth, for lengths above 30' to 100'	L.F.	80	\$40.00	\$3,200.00
14	02511	2" - 4" Water Line Over 6' Depth, Greater than 100' Length	L.F.	75	\$35.00	\$2,625.00
15	02516	Cut and Plug 2" to 4" Water Line, Over 6' Depth	Each	15	\$650.00	\$9,750.00
16	02511	Point Repair by Replacing 6' of 6" - 8" Dia Water Line, Up to 6' Depth	Each	75	\$1,400.00	\$105,000.00
17	02511	6" - 8" Water Line Up to 6' Depth, for lengths above 6' to 30'	L.F.	100	\$50.00	\$5,000.00
18	02511	6" - 8" Water Line Up to 6' Depth, for lengths above 30' to 100'	L.F.	100	\$45.00	\$4,500.00
19	02511	6" - 8" Water Line, Up to 6' Depth, Greater than 100' Length	L.F.	75	\$40.00	\$3,000.00
20	02516	Cut and Plug 6" to 8" Water Line, Up to 6' Depth	Each	25	\$650.00	\$16,250.00
21	02511	Point Repair by Replacing 6' of 6" - 8" Dia Water Line, Over 6' Depth	Each	35	\$1,600.00	\$56,000.00
22	02511	6" - 8" Water Line, Over 6' Depth, for lengths above 6' to 30'	L.F.	75	\$65.00	\$4,875.00
23	02511	6" - 8" Water Line, Over 6' Depth, for lengths above 30' to 100'	L.F.	75	\$60.00	\$4,500.00
24	02511	6" - 8" Water Line, Over 6' Depth, Greater than 100' Length	L.F.	50	\$55.00	\$2,750.00
25	02516	Cut and Plug 6" to 8" Water Line, Over 6' Depth	Each	10	\$750.00	\$7,500.00
26	02511	Point Repair by Replacing 6' of 10" - 12" Dia Water Line, Up to 6' Depth	Each	25	\$2,000.00	\$50,000.00

Document 00410B
BID FORM - PART B

B. BASE UNIT PRICE TABLE:

Item No.	Section No.	Item Description	Unit Measure	Unit Quantity	Unit Price (This Col. Controls)	Unit Price Total
27	02511	10" - 12" Water Line, Up to 6' Depth, for lengths above 6' to 30'	L.F.	100	\$60.00	\$6,000.00
28	02511	10" - 12" Water Line, Up to 6' Depth, for lengths above 30' to 100'	L.F.	75	\$55.00	\$4,125.00
29	02511	10" - 12" Water Line, Up to 6' Depth, Greater than 100' Length	L.F.	50	\$50.00	\$2,500.00
30	02516	Cut and Plug 10" to 12" Water Line, Up to 6' Depth	Each	10	\$1,000.00	\$10,000.00
31	02511	Point Repair by Replacing 6' of 10" - 12" Dia Water Line, Over 6' Depth	Each	15	\$3,000.00	\$45,000.00
32	02511	10" - 12" Water Line, Over 6' Depth, for lengths above 6' to 30'	L.F.	100	\$100.00	\$10,000.00
33	02511	10" - 12" Water Line, Over 6' Depth, for lengths above 30' to 100'	L.F.	75	\$95.00	\$7,125.00
34	02511	10" - 12" Water Line, Over 6' Depth, Greater than 100' Length	L.F.	50	\$90.00	\$4,500.00
35	02516	Cut and Plug 10" to 12" Water Line, Over 6' Depth	Each	5	\$1,100.00	\$5,500.00
36	02511	Point Repair by Replacing 6' of 16" Dia Water Line, All Depths	Each	10	\$5,250.00	\$52,500.00
37	02511	16" Water Line, Over 6' Depth, for lengths above 6' to 100'	L.F.	50	\$150.00	\$7,500.00
38	02516	Cut and Plug 16" Water Line, Over 6' Depth	Each	5	\$1,500.00	\$7,500.00
39	02520	New 6" Fire Hydrant with Restraint, 3 foot Depth	Each	1	\$2,250.00	\$2,250.00
40	02520	New 6" Fire Hydrant with Restraint 4 foot Depth	Each	1	\$2,500.00	\$2,500.00
41	02520	New 6" Fire Hydrant with Restraint, 5 foot Depth	Each	1	\$2,750.00	\$2,750.00
42	02520	New 6" Fire Hydrant with Restraint, 6 foot Depth	Each	1	\$3,000.00	\$3,000.00
43	02520	New 6" Fire Hydrant with Restraint, 7 foot Depth	Each	1	\$3,250.00	\$3,250.00
44	02520	New 6" Fire Hydrant with Restraint, 8 foot Depth	Each	1	\$3,500.00	\$3,500.00
45	02520	New 6" Fire Hydrant with Restraint, All Depths over 8'	Each	1	\$4,000.00	\$4,000.00
46	02520	Fire Hydrant Extension, 6" Length	Each	1	\$500.00	\$500.00
47	02520	Fire Hydrant Extension, 12" Length	Each	1	\$600.00	\$600.00
48	02520	Fire Hydrant Extension, 18" Length	Each	1	\$650.00	\$650.00
49	02520	Fire Hydrant Extension, 24" Length	Each	1	\$700.00	\$700.00
50	02520	6" Fire Hydrant Branch, Open Cut	L.F.	50	\$90.00	\$4,500.00
51	02516	Cut and Plug 6-8" Water Main, Up to 6' Depth, for Fire Hydrant Relocation	EACH	1	\$1,050.00	\$1,050.00
52	02516	Cut and Plug 6-8" Water Main, Over 6' Depth, for Fire Hydrant Relocation	EACH	1	\$1,150.00	\$1,150.00
53	02516	Cut and Plug 10-12" Water Main, Up to 6' Depth, for Fire Hydrant Relocation	EACH	1	\$1,100.00	\$1,100.00
54	02516	Cut and Plug 10-12" Water Main, Over 6' Depth, for Fire Hydrant Relocation	EACH	1	\$1,200.00	\$1,200.00
55	02516	Cut and Plug 16" Water Main, Over 6' Depth, for Fire Hydrant Relocation	EACH	1	\$1,450.00	\$1,450.00

Document 00410B
BID FORM - PART B

B. BASE UNIT PRICE TABLE:

Item No.	Section No.	Item Description	Unit Measure	Unit Quantity	Unit Price (This Col. Controls)	Unit Price Total
56	02511	Point Repair on 6-10" Water Main, Up to 6' Depth, for Fire Hydrant Relocation, including Tee	EACH	1	\$1,500.00	\$1,500.00
57	02511	Extra Length Point Repair on 6-10" Water Main, Up to 6' Depth, for Fire Hydrant Relocation, including Tee	L.F.	50	\$90.00	\$4,500.00
58	02511	Point Repair on 6-10" Water Main, Over 6' Depth, for Fire Hydrant Relocation, including Tee	EACH	2	\$1,750.00	\$3,500.00
59	02511	Extra Length Point Repair on 6-10" Water Main, Over 6' Depth, for Fire Hydrant Relocation, including Tee	L.F.	45	\$100.00	\$4,500.00
60	02511	Point Repair on 12-16" Water Main, Up to 6' Depth, for Fire Hydrant Relocation, including Tee	EACH	1	\$2,500.00	\$2,500.00
61	02511	Extra Length Point Repair on 12-16" Water Main, Up to 6' Depth, for Fire Hydrant Relocation, including Tee	L.F.	40	\$120.00	\$4,800.00
62	02511	Point Repair on 12-16" Water Main, Over 6' Depth, for Fire Hydrant Relocation, including Tee	EACH	1	\$3,250.00	\$3,250.00
63	02511	Extra Length Point Repair on 12-16" Water Main, Over 6' Depth, for Fire Hydrant Relocation, including Tee	L. F.	45	\$140.00	\$6,300.00
64	02521	2" Gate Valve with Box, two sleeves, up to 6 ft pipe, Mechanical Restraints and 6'X6'X6' excavation	Each	10	\$700.00	\$7,000.00
65	02521	4" Gate Valve with Box, two sleeves, up to 6 ft pipe, Mechanical Restraints and 6'X6'X6' excavation	Each	15	\$900.00	\$13,500.00
66	02521	6" Gate Valve with Box, two sleeves, up to 6 ft pipe, Mechanical Restraints and 6'X6'X6' excavation	Each	20	\$1,350.00	\$27,000.00
67	02521	8" Gate Valve with Box, two sleeves, up to 6 ft pipe, Mechanical Restraints and 6'X6'X6' excavation	Each	20	\$2,000.00	\$40,000.00
68	02521	10" Gate Valve with Box, two sleeves, up to 6 ft pipe, Mechanical Restraints and 6'X6'X6' excavation	Each	10	\$2,500.00	\$25,000.00
69	02521	12" Gate Valve with Box, two sleeves, up to 6 ft pipe, Mechanical Restraints and 6'X6'X6' excavation	Each	15	\$3,500.00	\$52,500.00
70	02521	16" Gate Valve with Box, two sleeves, up to 6 ft pipe, Mechanical Restraints and 6'X6'X6' excavation	Each	10	\$5,500.00	\$55,000.00
71	01110	Furnish and install 6" insertable Gate valve with line pressure less than 100 PSI	Each	1	\$5,500.00	\$5,500.00
72	01110	Furnish and install 8" insertable Gate valve with line pressure less than 100 PSI	Each	1	\$6,500.00	\$6,500.00
73	01110	Furnish and install 12" insertable Gate valve with line pressure less than 100 PSI	Each	1	\$10,000.00	\$10,000.00
74	01110	Furnish and install 6" line stopper under pressure	Each	1	\$5,200.00	\$5,200.00
75	01110	Furnish and install 8" line stopper under pressure	Each	1	\$6,350.00	\$6,350.00
76	01110	Furnish and install 12" line stopper under pressure	Each	1	\$9,000.00	\$9,000.00
77	02512	Replacement of Plastic or PVC Service Line with Copper service 3/4" to 1", 0' to 15' Length	Each	2	\$800.00	\$1,600.00
78	02512	Replacement of Plastic or PVC Service Line with Copper service 3/4" to 1", 16' to 30' Length	Each	2	\$900.00	\$1,800.00
79	02512	Replacement of Plastic or PVC Service Line with Copper service box 3/4" to 1", 31' to 60' Length	Each	2	\$1,100.00	\$2,200.00

Document 00410B
BID FORM - PART B

B. BASE UNIT PRICE TABLE:

Item No.	Section No.	Item Description	Unit Measure	Unit Quantity	Unit Price (This Col. Controls)	Unit Price Total
80	02512	Replacement of Plastic or PVC Service Line with Copper service box 3/4" to 1", greater than 60' Length	Each	2	\$1,250.00	\$2,500.00
81	02512	Replacement of Plastic or PVC Service Line with Copper service box 1-1/2" to 2", 0' to 15' Length	Each	2	\$1,200.00	\$2,400.00
82	02512	Replacement of Plastic or PVC Service Line with Copper service box 1-1/2" to 2", 16' to 30' Length	Each	2	\$1,300.00	\$2,600.00
83	02512	Replacement of Plastic or PVC Service Line with Copper service with new meter box 1-1/2" to 2", 31' to 60' Length	Each	2	\$1,400.00	\$2,800.00
84	02512	Replacement of Plastic or PVC Service Line with Copper service box 1-1/2" to 2", greater than 60' Length	Each	2	\$1,600.00	\$3,200.00
85	02512	1-1/2" X 3/4" to 4" X 2" Saddle	Each	5	\$40.00	\$200.00
86	02512	6" X 3/4" to 6" X 2" Saddle or 8" X 3/4" to 8" X 2" Saddle	Each	5	\$50.00	\$250.00
87	02512	12" X 3/4" to 12" X 2" Saddle or 16" X 3/4" to 16" X 2" Saddle	Each	5	\$105.00	\$525.00
88	02512	Water Taps and New Copper Service 3/4" to 1", with New Meter Box Up to 15' Length	Each	2	\$950.00	\$1,900.00
89	02512	Water Taps and New Copper Service 3/4" to 1", with New Meter Box 16' to 30' Length	Each	2	\$1,100.00	\$2,200.00
90	02512	Water Taps and New Copper Service 3/4" to 1", with New Meter Box 31' to 60' Length	Each	2	\$1,250.00	\$2,500.00
91	02512	Water Taps and New Copper Service 3/4" to 1", with New Meter Box Greater than 60' Length	Each	2	\$1,400.00	\$2,800.00
92	02512	Water Taps and New Copper Service, 1-1/2" to 2", with New Meter Box Up to 15' Length	Each	2	\$1,250.00	\$2,500.00
93	02512	Water Taps and New Copper Service, 1-1/2" to 2", with New Meter Box 16' to 30' Length	Each	2	\$1,350.00	\$2,700.00
94	02512	Water Taps and New Copper Service 1-1/2" to 2", with New Meter Box 31' to 60' Length	Each	2	\$1,500.00	\$3,000.00
95	02512	Water Taps and New Copper Service 1-1/2" to 2", with New Meter Box Greater than 60'	Each	2	\$1,700.00	\$3,400.00
96	02521	Replacement of existing water pipe with 1-1/2" to 2" copper pipe up to 20' to 30' length	Each	2	\$1,300.00	\$2,600.00
97	02512	Stop Corporation, 3/4" Plug	Each	2	\$65.00	\$130.00
98	02512	Stop Corporation, 1" Plug	Each	2	\$80.00	\$160.00
99	02512	Stop Corporation 1-1/2" to 2" Plug	Each	2	\$90.00	\$180.00
100	02512	Stop Curb 3/4" W/Lock Wing	Each	2	\$65.00	\$130.00
101	02512	Stop Curb 1" W/Lock Wing	Each	2	\$90.00	\$180.00
102	02512	Stop Curb 1-1/2" to 2" W/Lock Wing	Each	2	\$95.00	\$190.00
103	02512	Reducer, Brass Coupling, 1" X 3/4"	Each	2	\$20.00	\$40.00

Document 00410B
BID FORM - PART B

B. BASE UNIT PRICE TABLE:

Item No.	Section No.	Item Description	Unit Measure	Unit Quantity	Unit Price (This Col. Controls)	Unit Price Total
104	02512	Meter Coupling, Transition Brass 1"	Each	2	\$15.00	\$30.00
105	02512	Meter Coupling, Transition Brass 1-1/2" to 2"	Each	2	\$15.00	\$30.00
106	02526/02512	Meter Gasket Replacement Up to 1"	Each	30	\$50.00	\$1,500.00
107	02526/02512	Meter Gasket Replacement Over 1"	Each	30	\$60.00	\$1,800.00
108	02526/02512	Removal and Replacement of 3/4" to 4" water Meter with New Meter box	Each	3	\$1,000.00	\$3,000.00
109	02526/02512	Curb Stop Valve or Wheel Valve in Meter Box 5/8" to 1"	Each	20	\$250.00	\$5,000.00
110	02526/02512	Curb Stop Valve or Wheel Valve in Meter Box Over 1"	Each	20	\$275.00	\$5,500.00
111	02525/02085	8" x 6" Tapping Sleeve with Gate Valve and Box	Each	3	\$2,500.00	\$7,500.00
112	02525/02085	12" x 6" Tapping Sleeve with Gate Valve and Box	Each	3	\$3,500.00	\$10,500.00
113	02525/02085	12" x 8" Tapping Sleeve with Gate Valve and Box	Each	3	\$4,000.00	\$12,000.00
114	02525/02085	16" x 8" Tapping Sleeve with Gate Valve and Box	Each	3	\$5,500.00	\$16,500.00
115	02447/02511	Wet Bore, 6" Water Main, All Needs, All Types of Soil, and All Depths	L.F.	196	\$25.00	\$4,900.00
116	02447/02511	Wet Bore, 8" Water Main, All Needs, All Types of Soils, All Depth	L.F.	150	\$30.00	\$4,500.00
117	02447/02511	Wet Bore, 12" Water Main, All Needs, All Types of Soil, All Depths	L.F.	150	\$40.00	\$6,000.00
118	02447/02511	Wet Bore, 16" Water Main, All Needs, All Types of Soil, All Depths	L.F.	75	\$55.00	\$4,125.00
119	02825	Removal and Replacement of Wooden Fence, All Heights, With All New Materials	L.F.	100	\$35.00	\$3,500.00
120	02821	Removal and Replacement of Chain Link Fence, All Heights, With All New Materials	L.F.	100	\$30.00	\$3,000.00
121	02825	Removal and Replacement of Wooden Gate, All Heights, With All New Materials	Each	5	\$300.00	\$1,500.00
122	02821	Removal and Replacement of Chain Gate, All Heights, With All New Materials	Each	5	\$250.00	\$1,250.00
123	02775	Removal and Replacement of 4-1/2" Concrete Sidewalk with reinforcement including, expansion joints and adjustments	S.Y.	500	\$90.00	\$45,000.00
124	02751/02754	Removal and Replacement of Up to 7" Concrete Driveway and/or Street Pavements with Reinforcement	S.Y.	450	\$100.00	\$45,000.00
125	02751/02754	Removal and Replacement of Up to 8" Concrete Driveway and/or Street Pavements with Reinforcement and expansion joints, adjustment/repair of inlets, manholes and water valves as needed	S.Y.	550	\$105.00	\$57,750.00
126	02754	Removal and Replacement of 8" to 10" Concrete Driveway/ street Pavements with Reinforcement with expansion joints and adjustment/repair of inlets, manholes and water valves as needed	S.Y.	450	\$115.00	\$51,750.00

Document 00410B
BID FORM - PART B

B. BASE UNIT PRICE TABLE:

Item No.	Section No.	Item Description	Unit Measure	Unit Quantity	Unit Price (This Col. Controls)	Unit Price Total
127	02754	Removal and Replacement above 10" concrete slab including expansion joints and adjustments/repair of inlets, manholes and water valves as needed	C.Y.	250	\$450.00	\$112,500.00
128	02751	Extra 8" reinforced concrete pavement, high early strength	S.Y.	20	\$20.00	\$400.00
129	02751	Extra 10" reinforced concrete pavement, high early strength	S.Y.	30	\$30.00	\$900.00
130	02775	Concrete wheelchair ramps including headers, dowels, expansion joints and staining	S.Y.	10	\$200.00	\$2,000.00
131	02741	Removal and Replacement of Up to 2" HMAc (Type D) Including Tack Coat (where overlay not required)	S.Y.	500	\$50.00	\$25,000.00
132	02741	2" HMAc Overlay with Tack Coat	S.Y.	150	\$20.00	\$3,000.00
133	02221	Milling of Pavement (Asphalt or Concrete Up to 5")	S.Y.	150	\$10.00	\$1,500.00
134	02711	Removal and Replacement of Semi-Rigid Base Course Up to 6"	S.Y.	450	\$30.00	\$13,500.00
135	02771	Removal and Replacement of Concrete Curb and Gutter	L.F.	260	\$10.00	\$2,600.00
136	02752	Saw Cut Joint Asphalt/Concrete Pavements, All Depth per Field	L.F.	5,000	\$10.00	\$50,000.00
137	02321	Cement Stabilize Sand Backfill 1.64 Tons/CY	Ton	200	\$30.00	\$6,000.00
138	02320	Bank Sand Backfill/Crushed Concrete/Limestone	C.Y.	750	\$35.00	\$26,250.00
139	01555	Flagmen for Traffic Control	Hour	150	\$30.00	\$4,500.00
140	01555	Uniformed Peace Officer	Hour	300	\$40.00	\$12,000.00
141	01555	Traffic Control Plan - Signed and sealed by a Texas Registered Professional Engineer, P.E.	Each	6	\$3,500.00	\$21,000.00
142	01555	Flashing Arrow Board	Day	20	\$100.00	\$2,000.00
143	01555	Portable Low Profile Barriers/barricades	Day	20	\$10.00	\$200.00
144	02260	Trench Safety System Over 5' Depth but less than 10'	L.F.	300	\$10.00	\$3,000.00
145	02260	Trench Safety System Over 10' Depth	L.F.	150	\$15.00	\$2,250.00
146	01270	Certified Field Welder for welding waterline in open trench	Hour	40	\$135.00	\$5,400.00

Document 00410B
BID FORM - PART B

B. BASE UNIT PRICE TABLE:

Item No.	Section No.	Item Description	Unit Measure	Unit Quantity	Unit Price (This Col. Controls)	Unit Price Total
147	01110	Standby/Wait at Location After Two (2) Hours at Site	Hour	75	\$150.00	\$11,250.00
148	01110	Ornate/colored Specialty concrete/brick Replacement including reinforcement and labor	SY	75	\$145.00	\$10,875.00
149	01110	Crew Mobilization no Work Required, Report before Leaving Site	Each	53	\$200.00	\$10,600.00
150	02741	Extra Asphalt HMAC (Type D)	C.Y.	75	\$40.00	\$3,000.00
151	02318	Extra Excavation by Machine	C.Y.	200	\$35.00	\$7,000.00
152	02922	Sodding	S.Y.	200	\$15.00	\$3,000.00
153	02318	Extra Excavation by Hand	C.Y.	50	\$65.00	\$3,250.00
154	2512	Repair of copper service short side 3/4" to 1" greater than 6' length	Each	2	\$500.00	\$1,000.00
155	2512	Repair of copper service short side 1-1/2" to 2" greater than 6' length	Each	2	\$650.00	\$1,300.00
156	2512	Repair of copper service long side 3/4" to 1" greater than 6' length	Each	2	\$750.00	\$1,500.00
157	2512	Repair of copper service long side 1-1/2" to 2" less than 6' length	Each	2	\$900.00	\$1,800.00
TOTAL BASE UNIT PRICES: (a)						\$1,579,370.00

C. EXTRA UNIT PRICE TABLE: N/A - There is no Extra Unit Price Table.

D. CASH ALLOWANCE TABLE:

158	01562	Removal and/or Replacement of Trees and Shrubs	Lump Sum	1	\$2,000.00	\$2,000.00
159	01110	Allowance for Permit, Street or Sidewalk Excavation, Open Cut Pavement (Cash Allowance)	Each	100	\$200.00	\$20,000.00
160	01110	Allowance for Permit, Excavation by Jacking or Boring, (Cash Allowance)	Each	50	\$150.00	\$7,500.00
TOTAL CASH ALLOWANCE: (b)						\$29,500.00

E. ALTERNATES TABLE: N/A - There is no Alternates Table

(Add Totals for Items A., B., C., D., and E above)

BASE BID TOTAL (a) + (b) =	\$1,608,870.00
-----------------------------------	-----------------------

Bidder's Base Bid Adjustment Factor (f) = _____

Uniform Bid Factor for all Items.

Document 00410B
BID FORM - PART B

B. BASE UNIT PRICE TABLE:

Item No.	Section No.	Item Description	Unit Measure	Unit Quantity	Unit Price (This Col. Controls)	Unit Price Total
----------	-------------	------------------	--------------	---------------	---------------------------------	------------------

(Use up to 2 decimal places. Only the first two decimal places will be used for Bid Tab.)

Example :

TOTAL BID PRICE = {(a) x (f) + (b) x (1)} where (f) for 1% below is 0.99 and 1% above is 1.01

F. TOTAL BID PRICE: (1,579,370.00 X _____) + (29,500 X 1) = \$ _____
(a) (f) (b)

2.0 SIGNATURES: By signing this Document, I agree that I have received and reviewed all Addenda and considered all costs associated with the Addenda in calculating the Total Bid Price.

Bidder:

(Print or Type full name of your proprietorship, partnership, corporation, or joint venture. *)

**By:

Signature

Date

Name:

(Print or type name)

Title

Address:

(Mailing)

(Street, if different)

Telephone and Fax Number:

(Print or type numbers)

* If Bid is a joint venture, add additional Bid Form signature sheets for each member of the joint venture.

** Bidder certifies that the only person or parties interested in this offer as principals are those named above.

Bidder has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding.

Note:

This document constitutes a government record, as defined by § 37.01 of the Texas Penal Code.

Submission of a false government record is punishable as provided provided in § 37.10 of the Texas Penal Code.

Footnotes for Tables B through E:

- (1) Fixed Unit Price determined prior to Bid. Cannot be adjusted by the Bidder.
- (2) Minimum Bid Price determined prior to Bid. Can be increased by the Bidder by crossing out the Minimum and noting revised price on the line above.
- (3) Maximum Bid Price determined prior to Bid. Can be decreased but not increased by Bidder by crossing out the Maximum and noting revised price on the line above. A Bid that increases the Maximum Bid Price may be found non-conforming and non-responsive.
- (4) Fixed Range Bid Price determined prior to Bid. Unit Price can be adjusted by Bidder to any amount within the range defined by crossing out prices noted and noting revised price on the line above.

END OF DOCUMENT

SUMMARY OF WORK

Section 01110

SUMMARY OF WORK

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Summary of the Work including work by the City, City-furnished Products, work sequence, future work, Contractor use of Premises, special conditions for substantial completion and City occupancy.

1.02 WORK COVERED BY CONTRACT DOCUMENTS

A. Work shall include repairs, improvements and/or new installations on existing service lines and City water mains up to 16 inches in diameter, resulting from emergency breaks, leaks and customer complaints. The work items shall be as per Document 00410B – Bid Form, Part B of this Project Manual. Restoration work (pavement of driveways, sidewalks and streets) after the necessary “replacement” jobs are also covered as per Document 00410B – Bid Form, Part B.

B. Contractor to conform to the latest City of Houston Department of Public Works and Engineering Infrastructure Design Manual. Contractor to follow Chapter Seven (7) Table 7.4 when repairing the existing water line over or under existing sewer lines and services.

C. Contractor shall make every effort not to damage or disturb existing driveways, sidewalks, curbs, vegetation, fire hydrants, other utility lines and service connections.

1.03 CASH ALLOWANCES

A. Include the following specific Cash Allowances in Contract Price under provisions of General Conditions Paragraph 3.11:

1. An allowance of \$2000.00 is included in the Contract Price for removal and replacement of trees and/or shrubs under Section 01562 – Tree and Plant Protection. All such work shall be approved in advance by the Project Manager. Payment shall be for the actual amount invoiced without the Adjustment Factor. The Adjustment Factor (F) shall not be applied to any invoices/bills approved for payment under the allowance pay item.

2. Payment for required permits shall be for the actual amount without the adjustment factor. The cost for each Permit for street or sidewalk excavation, open cut pavement, is \$200.00; the cost for each permit for excavation by jacking or boring is \$150.00.

SUMMARY OF WORK

1.04 ALTERNATES

None

1.05 CITY-FURNISHED PRODUCTS

A. Items Furnished by the City for Installation and final connection by Contractor: Water meter.

B. Contractor's Responsibilities:

1. Arrange and pay for Product delivery to the site.
2. Receive and unload Products at the site; jointly with the City, inspect for completeness or damage.
3. Handle, store, Install, and finish Products.
4. Repair or replace damaged item

1.06 WORK SEQUENCE AND COMPLETION OF WORK ORDERS

A. Construct the Work in Phases during the construction period, coordinate construction schedule and operations with the City:

1. Phase 1: No phases for this project

B. For projects with no Phases, do not disturb more than 50% of total project linear feet of disturbed right-of-way and easement until site restored in accordance with Section 01740 – Site Restoration.

C. Coordination of the Work: Refer to Section 01312 - Coordination and Meetings.

D. Each individual work order shall be assigned and individual number serially. The Contractor shall complete the replacement, improvement and/or new installations on existing service lines and City water mains and any associated work of the work orders ("repairs") within Eight (8) days from the date the Test Cut is completed. Test Cut is defined as the process of isolating a water main section by reducing the water flow with valves and fire hydrants to allow for water repair or replacement. Concrete and site/yard work, including repairing, resurfacing and/or sodding of concrete, asphalt and/or lawn areas and any associated work ("restoration") shall be completed within nine (9) days after the repairs are completed. The City will not pay for a work order until all of the work is complete, including restoration. The City will take digital photographs and conduct an

SUMMARY OF WORK

inspection with the Contractor before considering a work order complete. The Contractor shall ensure that all restoration is completed before requesting a final inspection by the City. The Contractor shall also submit digital photographs, if required. Work orders shall always be scheduled with the oldest dated work orders first.

E. "First Come First Go" shall be the order of completions. However, the City Engineer may require certain work order(s) to take priority in emergency situations. If any work is not completed as described above, the Contractor may be required to state reasons for the delays in the Daily Schedule. If the required number of repairs are not completed, it will be deemed that work is not progressing as per these specifications. The volume of work being issued and completed should keep pace and should average out each week by the Contractor.

F. Contractor shall resolve any and all complaints, including citizen complaints, associated with a completed work order, within (3) three working days after receipt from the Project Manager. An open work order will not be deemed complete until complaints have been resolved.

G. The City Engineer may delete any payment already made (for later payment after full compensation for work order(s) not being "finalized and completed quickly as desired. The Contractor shall make "special effort" to complete as many work orders as possible by the 28th of the month. All work completed by the end of the month shall be paid that month. However, the City doesn't guarantee payment in that month if the last days of the month are weekends.

H. The Contractor will implement his own vehicular and pedestrian traffic control plan and obtain approval from the Traffic Engineering Branch, if required. This work will be incidental to the replacement work being performed.

1.07 CONTRACTOR USE OF PREMISES

A. Comply with procedures for access to the site and Contractor's use of rights-of-way as specified in Section 01145 - Use of Premises.

B. Construction Operations: Limited to the City's rights-of-way provided by the City and areas shown or described in the Contract documents.

C. Utility Outages and Shutdown: Provide a minimum of 48 hours notice to the City and private utility companies (when applicable), excluding weekends and holidays, in advance of required utility shutdown. Coordinate all work as required.

D. Identification Badges: The Department of Public Works and Engineering requires for any worker on the project to have an identification

SUMMARY OF WORK

badge easily visible on his or her body. The badge shall include a photograph of the employee, name of the company, and company logo. This requirement applies to all employees of the prime contractor, subcontractors, suppliers, and others working on the project site.

1.08 STREET CUT ORDINANCE

A. Excavations on or under pavement in the City's right-of-way must have a permit. Comply with City of Houston, Texas Ordinance No. 2000-1115, an ordinance amending Chapter 40 of the Code of Ordinances, Houston, Texas, relating to excavating in the Public right-of-way.

B. Comply with the latest edition of street cut New Pavement Repair and Pavement Replacement details.

C. Quantities are included for street cut pavement repair and replacement in applicable Specification sections for Unit Price contracts.

D. PRODUCTS

1. MATERIALS

a)Subgrade:

i) Provide backfill material as required by applicable excavation and fill sections (Sections 02315 through 02319) and Section 02330 - Embankment.

ii) Provide material for stabilization as required by applicable portions of Section 02336 Lime Stabilized Subgrade, Section 02337 - Lime/Fly-Ash Stabilized Subgrade, and Section 02338 - Portland Cement Stabilized Subgrade.

b) Base- Provide base material as required by applicable portions of Section 02711 - Hot Mix Asphaltic Base Course, Section 02712 - Cement Stabilized Base Course, and Section 02713 - Recycled Crushed Concrete Base Course.

c) Pavement- Provide paving materials as required by applicable portions of Section 02741 Asphaltic Concrete Pavement, Section 02751 - Concrete Paving, Section 02754 - Concrete Driveways, and Section 02771 - Curb, Curb and Gutter, and Headers, and Section 02775 Concrete Sidewalks.

E. EXECUTION

1. PREPARATION

SUMMARY OF WORK

- a) Obtain Street Cut permit and notify City Engineer 24 hours before commencement of construction operations.
- b) Conform to requirement of Section 02221 - Removing Existing Pavements and structures, for removals.
- c) Saw cut pavement 18 inches wider than width of trench needed to install Utilities unless otherwise indicated on Drawings.
- d) Protect edges of existing pavement to remain from damage during removals, utility placement, backfill and paving operations. For concrete pavement, leave and protect 18 inches of undisturbed subgrade on each side of trench to support minimum of replacement slab.

2. INSTALLATION

- a) Parking Areas, Service Drives, Driveways, and Sidewalks: Replace with material equal to or better than existing or as indicated on City of Houston Standard Details Drawing Nos. 02771.01, 02775.02, 02775.04, 02775.05, 02902.01, 02902.02, 02951.01, 02951.02 and 02951.03.
- b) Street Pavements and Curbs, Curbs and Gutters: Replace subgrade, base, and surface course with like materials or as indicated on City of Houston Standard Detail Drawing No. 02951.01. Curbs, curbs and gutters shall match existing.
- c) For concrete pavement, install size and length of reinforcing steel and pavement thickness indicated on City of Houston Standard Detail Drawing No. 02951.01. Place types and spacing of joints to match existing or as indicated on City of Houston Standard Detail Drawing No. 02951.01.
- d) Where existing pavement consists of concrete pavement with asphalt surfacing, resurface with minimum 2-inch depth asphalt pavement.

3. WASTE MATERIAL DISPOSAL

- a) Dispose of waste material in accordance with requirements of Section 01576 - Waste Material Disposal.

4. PROTECTION

- a) Maintain pavement in good condition until completion of the Work.
- b) Replace damaged pavement.

5. REMINDERS

- a) A Scheduled Excavation Permit is valid for sixty (60) days from date of issuance.

SUMMARY OF WORK

- b) Repairs shall be completed within eight (8) days from the date the Test Cut is completed.
- c) Restoration shall be completed within nine (9) days after the repair is completed.
- d) The Contractor is required to obtain a valid lane or street closure permit when working on a public way that is designated as a major thoroughfare or a collector street.
- e) The Contractor is required to comply with Ordinance No. 2004-498: An Ordinance Relating to Impairments and Obstruction of Roadways and Sidewalks.
- f) No work that would interfere with the traffic flow shall be conducted during peak hours (6:00am to 9:00am and from 3:30 pm to 6:30 pm Monday - Friday) on a roadway that appears on the City's major thoroughfare and freeway plan or on any collector street except during pavement surface repair.
- g) The excavation shall be performed so it does not obstruct emergency access to any fire hydrant or public water supply valve.
- h) Notice to commence an excavation shall be made to the City Engineer twenty (24) business hours in advance (Monday - Friday, except City observed holidays) of initiating work.
- i) Post Permit in a waterproof, see-through jacket at job site on a yellow, high-intensity, reflective background board or other rigid surface that measures 18" x 24", that will be maintained for the life of the project. The permit must be posted in clear view at the beginning of the work site activity currently being undertaken for that day.

6. CONDITIONS

- a) Each Contractor on behalf of itself and any contractor acting on its behalf accepts and agrees to comply with all responsibilities, requirements, standards and specifications, warranties, terms and conditions, releases, and indemnification provisions, set forth in City Ordinance No. 2000-1115 and Rules and Regulations for Chapter 40, Article V, Houston City Code.

7. PERMITEE WARRANTS TO THE CITY THE FOLLOWING

- a) It shall timely perform the excavation in accordance with the permit, the City of Houston Standard detail drawings and specifications, all applicable

SUMMARY OF WORK

laws, rules and regulations, and the construction standards adopted in or pursuant to Chapter 40, Article V of the Code of Ordinances, Houston, Texas, as amended from time to time.

b) It shall diligently prosecute the excavation to its final completion within the time authorized under the permit.

c) It shall warrant its excavations against all defects in workmanship and materials for a period of one (1) year after final completion of the work order.

d) It shall replace any portion of the pavement or surface of any public way excavated under the warranty set forth above if defects in workmanship or materials occur within the warranty period, and shall make such replacements within five days of written notice from the city engineer stating the repairs necessary.

8. NOTE TO CONTRACTOR

a) Line Items 77 through 84 on Document 0410B Bid Form will be used to compensate the contractor for the complete replacement of the existing service line with copper pipe from the corporation on the main line to the curb stop or U-branch in the meter box. A minimum of 6 LF of pipe must be replaced under this contract. Line Items 88 through 95 will be used to compensate the contractor for the installation of a new water tap and new copper service line from the new corporation on the main line to the curb stop or U-branch in the meter box. In addition to the Work performed using line items 88 through 95, the following items will be paid as determined by the City:

A new saddle will be paid as per line items 85, 86, 87; a new corporation will be paid as per line items 97, 98, 99; and a new curb stop will be paid as per line items 100, 101, 102.

For line items 77 through 84 and 88 through 95, eight (8) cubic yards (CY) of excavation is incidental to the pay items. Quantities that exceed this amount will be paid under line item 151.

b) If the street is resurfaced or reconstructed between the date of approval of this project and the start date of construction, pavement shall be replaced per details of pavement less than 5 years old.

c) The Contractor shall field locate and verify the size of all water lines, service lines, large water meters, small water meters and isolation valves under this contract before repairing the existing water lines. The information shown on the GIMS map is approximate location. This work will not be paid separately, but will be incidental to other items.

d) Contractor shall install line stopping sleeves at locations and water line sizes, as required by the project manager to facilitate line repair with

SUMMARY OF WORK

minimal service disruption. The water flow rate shall range from 1 foot per second for a single stop or 3 feet per second on a double stop. Install sleeve so flange is vertically positioned, unless otherwise indicated by the City. Clean line stop sleeve and pipe prior to installation and in accordance with manufacturer's instructions. For 12-inch or small taps, wrap completed sleeve in accordance with Section 02528-Polyethylene Encasement/Wrap. Restore the excavated area as required. Price of line stopper listed in Form 410B includes applicable taxes and mobilization.

e) Insertable valves or seat wedge valves shall meet or exceed City of Houston gate valve specifications. Install under water pressure, up to 150 psi. Contractor shall furnish insertable valves and other related equipment necessary to perform installation(s) including but not limited to tapping equipment and temporary valves to work site as determined by the project manager. Contractor is required to fully exercise the valve after installation or as required by the project manager before leaving the job site. Restore the excavated area as required. Price of valves listed in Form 410B includes applicable taxes and mobilization.

f) Contractor shall keep on-hand an adequate supply of standard parts to properly perform assigned work, as defined by work order specifications. Contractor shall promptly notify the assigned inspector of possible work delays. Contractor shall credit the City for standby time associated with inspection services for work performed as a result of the Contractor's failure to have necessary parts on-hand. The amount credited shall be according to Document 0800-Supplementary Conditions, Article 8.

g) Contractor shall conform to all requirements of Section 02317 – Excavation and Backfill for Utilities. Note the requirements to compact backfill.

h) Contractor shall conform to all requirements of Section 02741 – Asphaltic Concrete Pavement and Section 02751- Concrete Paving. If the Lab results failed to meet the requirements of these Sections, the pavement shall be removed and replaced at the contractor's cost.

1.09 WARRANTY

A. Comply with warranty requirements in accordance with Document 00700 - General Conditions.

1.10 ADDITIONAL CONDITIONS FOR SUBSTANTIAL COMPLETION

A. In addition to requirements outlined in Document 00700 – General Conditions, for Contractor to be substantially complete with the Work and call for inspection by Project Manager to confirm, the following conditions must be met or completed:

SUMMARY OF WORK

1. All testing shall be completed and accepted by Project Manager.
 2. All safety-related systems and equipment shall be installed, accepted by manufacturer's representative and approved for use.
- B. No additional condition described in Part 1.10 may be included in Contractor's punch list.

1.11 UNIT PRICES

- A. The Final Unit Price paid for work performed under this contract is the Base Unit Price multiplied by the Contractors overall Adjustment Factor (F). The Adjustment Factor is applied to all work items except Cash Allowances. Work items listed in Document 00410B – Bid Form, Part B cover all work required to complete this contract. Payment shall be in strict accordance with the work items listed, the specification sections referenced, specifications specific project.
- B. Standby/Time for Water Line Shut-Off – The Contractor shall be compensated for standby time associated with the delay of valve and line shut off by City, when the Contractor has mobilized at the site with proper equipment and personnel. The Contractor shall be compensated in accordance with Document 00410B – Bid Form, Part B as approved by the City Engineer. Payment will be made on an hourly basis. Standby time shall begin two (2) hours after the Contractor has mobilized at the work location and is waiting while the line shut off or closure is in progress or is being arranged by the City.
- C. Mobilization for Completed Work – The Contractor shall be compensated for mobilization of the entire crew to a location where work has already been completed by others or is determined to not be required. The Contractor shall be compensated in accordance with Document 00410B – Bid Form, Part B. Payment will be made on a per each occurrence basis for each work order, as determined by the assigned Inspector. Before moving out to the next location, the Contractor shall obtain City inspector's approval and provide a photograph of the site (clearly showing the address) and crew with date and time noted. The photograph must be submitted to the City inspector before the subject work order will be considered closed and payment made.

D. MINIMUM NUMBER OF REPAIRS REQUIREMENT

During the emergency waterline break season ("peak season"), the City requires the Contractor to provide a minimum of eight (8) repairs per day. Peak season generally occurs between the months of June through October, however, the timeframe varies. During the non peak season, the Contractor is required to provide a minimum of three (3) repairs per day. The City will provide notice to the Contractor informing the Contractor of the

SUMMARY OF WORK

impending peak season and the Contractor's responsibility to provide the minimum number of repairs per day. The Contractor is required to work Monday through Sunday, including holidays, to perform Work under this contract. Work may also have to be scheduled after work hours to accommodate business and other concerns. Failure to provide the minimum number of repairs specified may be grounds for assessing liquidated damages and shall constitute a material breach.

E. CONTRACT OVERVIEW

This contract provides for repairs to service lines, water mains and ancillary work. The contract will be administered by the City's Utility Maintenance Branch. Work locations may be anywhere within the City of Houston or where the City has existing water lines and will vary from work order to work order. A location drawing shall be issued with each work order. All materials used shall be approved and new.

F. The Contractor shall obtain and install signage in accordance with City's Ordinance governing Excavation in Public Right-of-Way.

G. IDENTIFICATION BADGES - The Department of Public Works and Engineering requires for any worker on the project site to have an identification badge easily visible on his or her body. The badge shall include a photograph of the employee, name of the employee, name of the company, and company logo. This requirement applies to all employees of the prime contractor, subcontractors, suppliers, and others working on the project site.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION