



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING AND CONSTRUCTION

PROJECT MANUAL
NEIGHBORHOOD SEWER SYSTEM
IMPROVEMENTS –
EASTWOOD WBS No. R-002011-0087A-4

VOLUME 1 of 1

Divisions 00 through 16

December 2017

90% Submittal

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TBPE Firm No. F-000142

Document 00010

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GEOTECHNICAL INFORMATION

1. DOCUMENT INCLUDES

- A. Soils investigation reports.
- B. Bidder's responsibilities.

2. RELATED DOCUMENTS

- A. Document 00340 – Environmental Information
- B. Section 02260 - Trench Safety Systems

3. SITE INVESTIGATION REPORTS

- A. In the design and preparation of Contract documents for this Project, the City and Design Consultant have used information in geotechnical reports for the investigation and analysis of soils and subsurface conditions at the Project site.
- B. An electronic copy of the report for this project is included in a CD-Rom affixed to the inside front cover of the project manual.
- C. Neither the City nor Design Consultant is responsible for accuracy or completeness of any information or data.

4. GEOTECHNICAL REPORTS

- A. Report No. G14-212, prepared by the firm of Associated Testing Laboratoires, Inc., entitled Neighborhood Sewer System Improvements Basin AS074, SB142, Fuqua Lift Station Area, dated 10/8/2014, consisting of 123 pages.

5. BIDDER RESPONSIBILITIES

- A. Bidder shall take full responsibility for interpretation and use of information contained in above listed reports for its bidding and construction purposes.
- B. Bidder may perform additional soils investigations as Bidder deems appropriate.

END OF DOCUMENT

Document 00340

ENVIRONMENTAL INFORMATION

1.0 DOCUMENT INCLUDES

- A. Environmental Site Assessment, if applicable.
- B. Asbestos and Lead Surveys, if applicable.
- C. Bidder's responsibilities.

2.0 RELATED DOCUMENTS

- A. Document 00320 - Geotechnical Information

3.0 SITE INVESTIGATION REPORTS

- A. In the design and preparation of Contract documents for this Project, the City and Design Consultant have used information in environmental site assessment reports for the investigation and analysis of soils and subsurface conditions at the Project site.
- B. In the design and preparation of Contract documents for this Project, the City and Design Consultant have relied upon information in surveys taken for Asbestos-containing Materials (ACMs) and lead at the Project site.
- C. An electronic copy of each report for this project is included in a CD-Rom affixed to the inside front cover of the project manual.
- D. Neither the City nor Design Consultant is responsible for accuracy or completeness of any information or data.

4.0 REPORTS

- A. Environmental Assessment Surveys
 - 1. Report No. E13-109, prepared by the firm of Associated Testing Laboratories, Inc., entitled Basin SB142, Basin AS074 & Fuqua Lift Station Neighborhood Sewer System Improvements, dated February, 2014, consisting of 11 pages.

5.0 BIDDER RESPONSIBILITIES

- A. Bidder shall take full responsibility for interpretation and use of information contained in above listed reports for bidding and construction purposes.
- B. Bidder may perform additional investigations as Bidder deems appropriate.

END OF DOCUMENT

Document 00410A

BID FORM – PART A

To: **The Honorable Mayor and City Council of the City of Houston
City Hall Annex
900 Bagby Street
Houston, Texas 77002**

Project: Neighborhood Sewer System Improvements - Eastwood

Project No.: WBS No. R-002011-0087-4

Bidder: _____

(Print or type full name of business entity, such as corporation, LLC, etc)

1.0 OFFER

- A. Total Bid Price:** Having examined the Project location and all matters referred to in Bid Documents for the Project, we, the undersigned, offer to enter into a Contract to perform the Work for the Total Bid Price shown on the signature page of this Document
- B. Security Deposit:** Included with the Bid is a Security Deposit in the amount of 10 percent of the Total Bid Price subject to terms described in Document 00200 – Instructions to Bidders.
- C. Period for Bid Acceptance:** This offer is open to acceptance and is irrevocable for 90 days from Bid Date. That period may be extended by mutual written agreement of the City and Bidder.
- D. Addenda:** All Addenda have been received. Modifications to Bid Documents have been considered and all related costs are included in the Total Bid Price.
- E. Bid Supplements:** The following documents are attached:
- Security Deposit *(as defined in Document 00200 – Instructions to Bidders)*
 - Document 00450 - Bidder's Statement of MWSBE Status
 - Document 00452 – Campaign Finance Ordinance
 - Document 00453 – Bidder's Statement of Residency
 - Document 00454 - Affidavit of Non-interest
 - Document 00455 – Affidavit of Ownership or Control
 - Document 00456 - Bidder's Certificate of Compliance with Buy American Program *(required for AIP funded project)*
 - Document 00457 – Conflicts of Interest Questionnaire (CIQ)
 - Document 00458 - Bidder's Certificate Regarding Foreign Trade Restriction *(required for AIP funded project)*
 - Document 00459 - Contractor's Statement Regarding Previous Contracts Subject to EEO *(required for AIP funded project)*
 - Document 00460 – Pay or Play Acknowledgement Form (POP 1-A)
 - Document 00470 – Bidder's MWSBE Participation Plan *(required unless no MWSBE participation goal is provided in Document 00800 (the "Goal"))*.
 - Document 00471 – Bidder's Record of Good Faith Efforts *(required if the goal in Bidder's Participation Plan–Document 00470 is lower than the Goal)*.

- Document 00472 – Bidder’s Goal Deviation Request (*required if the goal in Bidder’s Participation Plan–Document 00470 is lower than the Goal*).
- Others as listed: Valid official letter from OBO with your designation as a City of Local Business (Bidder’s Participation Hire Houston First)
-

2.0 CONTRACT TIME

- A.** If offer is accepted, Contractor shall achieve Date of Substantial Completion within 317 days after Date of Commencement of the Work, subject to adjustments of Contract Time as provided in the Contract.

Document 00410B

BID FORM – PART B

1.0 TOTAL BID PRICE HAS BEEN CALCULATED BY BIDDER, USING THE FOLLOWING COMPONENT PRICES AND PROCESS (PRINT OR TYPE NUMERICAL AMOUNTS):

A. STIPULATED PRICE:

N/A

(Total Bid Price; minus Base Unit Prices, Extra Unit Prices, Cash Allowances and All Alternates, if any)

B. BASE UNIT PRICE TABLE:

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
1	01578	Groundwater control for open-cut construction	LS	1		
2	01502	Mobilization	LS	1	\$120,000.00 ⁽¹⁾	\$120,000.00 ⁽¹⁾
3	01554	Remove and Relocate Traffic Sign (with new foundation, post and hardware)	EA	9		
4	01554	Remove and Replace Traffic Sign (with new foundation, post and hardware)	EA	13		
5	0221	Remove, Salvage and Reinstall Bollards	EA	6		
6	01555	Flagmen (Uniformed Police Officer or Certified Flagmen)	LS	1	\$82,000 ⁽²⁾	\$82,000 ⁽²⁾
7	01555	Traffic Control and Regulation	LS	1		
8	01555	Provide and install Concrete Traffic Barriers or low profile concrete barriers	LF	650		
9	01555	Moved/Relocated and Reset Concrete Traffic Barriers or low profile concrete barriers	LF	6,639		
10	01555	Remove Concrete Traffic Barriers or low profile concrete barriers	LF	650		
11	01562	Tree and Plant protection	LS	1		
12	01562	Zero Curb Cut	LF	390		
13	01562	Tree Planting (100 Gallon)	EA	30		
14	01570	Inlet Protection Barrier for Stage I & II	LF	190		
15	01570	Reinforced filter fabric barrier	LF	9,430		
16	02260	Trench safety system for sewer/manhole trench excavations (5 Ft -10 Ft)	LF	5,461		
17	02260	Trench safety system for sewer/manhole trench excavations (10 Ft -15 Ft)	LF	942		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
18	02751	7-inch reinforced concrete Pavement	SY	12,358		
19	02751	9-inch reinforced high early concrete Pavement	SY	3,884		
20	02752	Saw Cutting existing concrete or asphalt pavement for new joints	LF	873		
21	02221	Remove and Dispose of Asphaltic Surface with or without base. (All Types and Thickness)	SY	12,549		
22	02221	Remove and Dispose of Concrete Pavement with or without Asphalt Surface overlay & w/ or w/o curbs (All thicknesses).	SY	3,884		
23	02221	Remove and Dispose of concrete Sidewalk, Driveways and Wheel Chair Ramps (All Types and Thickness).	SY	6,340		
24	02336	Lime stabilized sub-grade, 6-inch	SY	14,162		
25	02336	Lime for Lime Stabilized Subgrade (6%)	Ton	177		
26	02338	Cement stabilized subgrade, 8-inch	SY	4,224		
27	02338	Cement for Cement Stabilized subgrade (10%)	Ton	185		
28	02714	Flexible Base Course for Temporary Driveways (Residential)	EA	106		
29	02714	Flexible Base Course for Temporary Driveways (Commercial)	EA	10		
30	02752	Horizontal Dowels, 24-inch	EA	268		
31	02752	Performed Expansion Joints with or w/o Load Transfer Devices	LF	1,956		
32	02752	Concrete Paving Header	LF	123		
33	02754	6-inch concrete driveway, Including Excavation	SF	20,157		
34	02754	7-inch concrete driveway, Including Excavation	SF	6,395		
35	02764	Raised reflective pavement markers (double-sided)(Ty II-C-R)(Blue) at fire hydrant locations	EA	15		
36	02767	Thermoplastic Pavement Markings (4-inch-wide) white or yellow	LF	2,500		
37	02767	Thermoplastic Pavement Markings (12-inch-wide) white or yellow	LF	504		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
38	02767	Thermoplastic Pavement Markings (24-inch-wide) white or yellow	LF	70		
39	02771	6-inch Concrete Curb	LF	7,513		
40	02775	Concrete Wheelchair Ramp (All types)	SF	1,200		
41	02775	4-1/2" Concrete sidewalk	SF	35,990		
42	02951	Asphalt Pavement Replacement All thicknesses with base materials	SY	1,720		
43	02081/ 02082/ 02087	Type C manhole for 42-inch diameter and smaller sewers	EA	19		
44	02081/ 02082/ 02087	Type "C" Manhole for 48-inch to 72-inch diameter sewers (with or without grate top)	EA	1		
45	02082	Extra Depth manhole (Type "C" manhole for 42" diameter and smaller)	VF	9		
46	02082	Extra Depth manhole (Type "C" manhole for 48-inch to 72-inch diameter)	VF	0		
47	02221	Remove And Dispose Inlet, all types/depth	EA	11		
48	02221	Remove and Dispose Existing Storm Sewer Manhole	EA	3		
49	02221	Remove and dispose 21-inch diameter (and smaller) concrete storm sewer and leads	LF	157		
50	02221	Remove and Dispose storm pipe 24-inch to 36-inch diameter concrete storm sewer and leads.	LF	173		
51	02221	Remove and dispose 48-inch Diameter Monolithic concrete storm sewer and leads	LF	90		
52	02086	Adjust existing manhole frame and cover to new grade	EA	34		
53	02631	24-inch diameter RCP Storm Sewer by open cut	LF	1,706		
54	02631	36-inch diameter RCP Storm Sewer by open cut	LF	447		
55	02631 /02506	3-inch PVC storm sewer pipe, drain through curb (complete in place)	LF	98		
56	02632 /02633	Type BB inlet frame and grate	EA	20		
57	02082	4-foot Dia Precast Concrete Manhole	EA	22		
58	02082	Extra depth for New 4-foot diameter pre-cast concrete manhole	VF	44		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
59	02086	Adjust existing manhole frame and cover to new grade	EA	3		
60	02221	Remove and dispose sanitary sewer manholes	EA	3		
61	02221	Remove and dispose - 8-inch diameter sanitary sewer	LF	125		
62	02222	Abandon Existing Manhole	EA	1		
63	02222	Abandon and fill with grout 8-inch diameter Sanitary Sewer	LF	34		
64	02441/ 02447/ 02448	12-inch Diameter sanitary sewer, Trenchless	LF	967		
65	2531	6-inch diameter sanitary sewer, by open cut , all depths (pvc pipe with 150 psi pressure rating, embedded in Cement Stabilized Sand for a total length of pipe segment plus 1 foot beyond the joint on each end)	LF	54		
66	02531	8-inch Diameter sanitary sewer, by open-cut	LF	3,915		
67	02531	12-inch Diameter sanitary sewer, by open-cut	LF	210		
68	02534	8" Sanitary Service Leads with Stack: and w/ w/o "Y" Connection	EA.	2		
69	02534	6" Sanitary Service Leads with Stack: and w/ w/o "Y" Connection	EA.	71		
70	02221	Remove and Dispose Water Valve Box	EA	16		
71	02221	Ajust Water Valve Box to New Grade	EA	1		
72	02511	8-inch Restrained Joint DIP Water Line (Open Cut)	LF	111		
73	02511	8-inch Diameter Water Line (Augered)	LF	4,434		
74	02511	8-inch Diameter Water Line (Open Cut)	LF	55		
75	02511	4-inch diameter line by open cut	LF	90		
76	02512	3/4-inch to 1-inch diameter water copper service line with meter box, short side	EA	69		
77	02512	3/4-inch to 1-inch diameter copper service line with meter box, long side	EA	46		
78	02513	8-inch diameter wet connection	EA	8		
79	02513	4-inch diameter wet connection	EA	2		
80	02516	Cut, Plug and abandon existing 4-inch diameter water line	EA	2		
81	02516	Cut, Plug and abandon existing 8-inch diameter water line	EA	8		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
82	02520	Fire hydrant assembly, all depths, including 6-inch diameter gate valve and box	EA	10		
83	02520	6-inch diameter fire hydrant branch by open-cut	LF	205		
83	02520	6-inch DIP diameter fire hydrant branch by open-cut	LF	45		
84	02520	Remove and salvage existing fire hydrant	EA	5		
85	02520	Fire hydrant assembly, all depths, including 6-inch diameter gate valve and box	EA	10		
<u>TOTAL BASE UNIT PRICES</u>						\$ _____

EXTRA UNIT PRICE TABLE:

Item No.	Spec Ref.	Extra Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
86	02221	Remove and Dispose of miscellaneous concrete, brick, and/or masonry	CY	100	\$10.00 ⁽²⁾	\$1,000.00 ⁽²⁾
87	02318	Excavation Around Obstructions	CY	100	\$30.00 ⁽²⁾	\$3,000.00 ⁽²⁾
88	02318	Extra Hand Excavation	CY	100	\$40.00 ⁽²⁾	\$4,000.00 ⁽²⁾
89	02318	Extra Machine Excavation	CY	100	\$30.00 ⁽²⁾	\$3,000.00 ⁽²⁾
90	02318	Extra Placement of Backfill Material	CY	100	\$20.00 ⁽²⁾	\$2,000.00 ⁽²⁾
91	02319	Borrow/ Embankment	CY	100	\$20.00 ⁽²⁾	\$2,000.00 ⁽²⁾
92	02321	Extra Cement Stabilized Sand	CY	100	\$40.00 ⁽²⁾	\$4,000.00 ⁽²⁾
93	02501	Extra Ductile Iron Compact Fittings in Place	Ton	1	\$2,200.00 ⁽²⁾	\$2,200.00 ⁽²⁾
94	02821	Extra Wood Fence Replacement	LF	100	\$20.00 ⁽²⁾	\$2,000.00 ⁽²⁾
95	02821	Extra Wrought Iron Fence Replacement	LF	100	\$50.00 ⁽²⁾	\$5,000.00 ⁽²⁾
96	02821	Extra Chain Link Fence Replacement	LF	100	\$30.00 ⁽²⁾	\$3,000.00 ⁽²⁾
97	03315	Extra Class "A" Concrete Pavement	CY	100	\$250.00 ⁽²⁾	\$25,000.00 ⁽²⁾
<u>TOTAL EXTRA UNIT PRICES</u>						\$ _____

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D. CASH ALLOWANCE TABLE:

Item No.	Spec Ref.	Cash Allowance Short Title	Cash Allowance in figures ⁽¹⁾
98	01110	City of Houston Street Cut Permit Fee	\$3,000.00
99	01111	Remove Street Lights (CenterPoint Energy)	\$10,000.00
100	01110	City of Houston Street Cut Permit Fee	\$30,000.00
<u>TOTAL CASH ALLOWANCES</u>			\$43,000.00

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E. ALTERNATES TABLE:

Item No.	Spec Ref.	Alternate Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total Price for Alternate in figures
		N/A				
<u>TOTAL ALTERNATES</u>						\$ _____

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F. TOTAL BID PRICE: \$ _____
(Add Totals for Stipulated Price, Base Unit Price, Extra Unit Price, Cash Allowance, and All Alternates, if any)

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 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, but not decreased, by crossing out the Minimum and inserting revised price on the line above. **Cannot** be decreased by the Bidder.
- (3) Maximum Bid Price determined prior to Bid. Can be decreased by the Bidder, but not increased, by crossing out the Maximum and inserting revised price on the line above. A Bid that increases the Maximum Bid Price may be found non-conforming and non-responsive. **Cannot** be increased by the Bidder.
- (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.

Section 01110
SUMMARY OF WORK

PART 1 G E N E R A L

1.01 SECTION INCLUDES

Summary of the Work includes work covered by contract documents, cash allowances, alternates, city-furnished products, work sequence, contractor use of premises, street cut ordinance, warranty and additional conditions for substantial completion.

1.02 WORK COVERED BY CONTRACT DOCUMENTS

A. Definitions

Work of the Contract consists of installation of new sanitary sewer collectors and trunk lines within the street ROW for future connection. Work included in this contract also includes complete street pavement reconstruction, sidewalks, installation of new storm sewer system, and installation of new waterlines along the alignment of the proposed sanitary sewer system in the area.

The construction items for this project include pay items and their related specifications as outlined in the Schedule of Unit Prices Work, Document No. 00410 "Bid Form, Parts A & B"

B. Project Scope

The project limits include Pease Street (north), Harby Street (south), Sidney Street (west), and Ernestine Street on the east. Project is located within the City of Houston, approximately two (2) miles southeast of Downtown. The scope of work is as follows:

1. Sanitary Sewer Installation:

The existing sanitary sewer system serving the area will stay active and is not be abandoned or disturbed during construction. New 6-inch service lines will be installed from the new sanitary sewer collector to right-of-way and terminate with cleanout.

Open Cut Construction:

Construction of approximately 3,915 linear feet of new 8-inch gravity sewer along Sidney Street, Harby Street, Coyle Street, Jefferson Street and Eastwood Street by open cut construction method.

Construction of approximately 210 linear feet of new 12-inch gravity sewer along Ernestine Street by open cut construction method.

For open-cut construction, contractor shall place secured steel plat over open cut sections whenever the contractor is not working within the open-cut area so that traffic will have full use of the roadway.

Trench-less Construction:

Trench-less construction of approximately 967 linear feet of new 12-inch gravity sewer within the street right-of-way of Ernestine Street.

For all pipe sections that are called out as Trench-less construction, contractor can use Pipe Augering, Micro tunneling and Pipe-jacked tunnel method of installation in accordance with specifications 02447 and 02441. For this project, should the

SUMMARY OF WORK

contractor desire to use any method other the ones mentioned above, he or she should seek approval from City prior to start of construction.

Contractor shall ensure that the required slopes and beginning and ending elevations are maintained as called out in the construction drawings.

Pavement restoration due to sanitary sewer construction in Trench-less method is incidental to the sanitary sewer work. Contractor to restore pavement disturbed during construction per City of Houston street cut ordinance.

Contractor is responsible for selection of the appropriate pipe and pipe joints to carry the thrust of any jacking forces or other construction loads in combination with overburden, earth and hydrostatic loads. The criteria for longitudinal loading (jacking forces) on the pipe and joints shall be determined by contractor, based on the selected method construction.

2. Paving Work:

Proposed gravity sanitary sewer will be constructed under street pavement along one lane of traffic approximately 4.5 to 6 feet horizontal offset from the existing curb line.

Existing asphalt pavement with monolithic curb and gutter to be removed and replaced from curb to curb along the following streets: Harby from Eastwood to Sidney, Coyle, Jefferson and Eastwood. The existing pavement is to be removed, disposed of and replaced as shown on the drawings with 7-inch concrete pavement with concrete curb, complete in place, including reinforcement, paving joints, and dowels drilled in place.

Existing concrete pavement to be removed and replaced from curb to curb along the Harby streets from Eastwood to Ernestine Street. The existing pavement is to be removed, disposed of and replaced as shown on the drawings with 9-inch concrete pavement with concrete curb, complete in place, including reinforcement, paving joints, and dowels drilled in place.

Existing Concrete pavement repair within Ernestine Street will be replaced with 9-inch high early strength concrete pavement complete in place, including reinforcement, paving joints, dowels drilled in place.

Driveways and sidewalks shall be replaced with the standard concrete paving as shown in the plans unless otherwise directed by the project manager. Decorative items such as brick sidewalks and pads, planter, etc. that do not conflict with proposed street, sidewalk, or driveway adjacent to the proposed construction area not required to be removed.

Contractor shall adhere to the proposed driveway widths referenced in the driveway schedule in the contract drawings. There are number of existing driveways that have widths less than the required 12-foot minimum. For these driveways, a new 12-foot wide driveway will be installed from the street pavement to the sidewalk. Between the sidewalk and connection to the existing driveway, contractor shall taper the proposed driveway width to the existing driveway width in a manner that minimizes impacts to existing facilities and/or features to the extent possible.

The work covered by this contract is shown on the construction plans and will also include, but not limited to: excavation and dewatering; backfill; grading necessary after open-cut construction; driveway, sidewalk, curb and gutter replacement; wheelchair ramp and pavement repair or restoration, including base repair; and removal and disposal of existing RCP culverts and inlets; water lines; and sanitary sewers and manholes as shown on the construction plans.

3. Storm Sewer Work:

Construction of approximately 2,179 linear feet of gravity storm sewer system along Coyle, Harby, Eastwood and Jefferson Street. Storm Sewer pipe size is 24-inch in diameter.

Storm sewer leads will be 24-inch diameter as called on plan and inlets will be upgraded to B-B inlets as shown on plan.

Additionally, there are 2-,3- and 4-inch curb drains located throughout the project limits. Reconstruction of the curb drains shall be accomplished with 3-inch PVC drain pipes placed in the proposed curb at the gutter flowline, as per detail(s) in the construction drawings. Connections to the existing yard drain pipes shall be made within the street right-of-way, as close to the proposed street as possible. The connection shall be watertight and extend through the proposed curb., sidewalk section and control joint.

4. Water Line Work:

Construction of approximately 4,434 linear feet of new 8-inch augered water line along Harby, Coyle, Jefferson and Eastwood Street including fire hydrants and service lines.

If contractor encounters water service lines during storm sewer construction, contractor shall repair damaged service lines promptly to avoid extended water service interruptions. The cost related to preserve the existing service lines are incidental to all other pay items and are not additional cost to the City of Houston.

5. Traffic Control Plan will be implemented to provide for traffic control during construction by placement of proper advance warning signs, traffic signs, flagmen at both ends of construction, and installation of reduced speed measures, raised traffic barriers along the work area and rerouting of traffic lanes for the approach and exit from the work area.
6. Any landscaping within and along the work area affected by the construction of proposed sewer and paving work will be protected and replaced in kind, if damaged.
7. Contractor to carefully remove and salvage existing address monuments and mailboxes enclosed in structures that are located within 2-feet of proposed concrete curb and deliver it to the home owner for future installation by the home owner. Installation of temporary mailboxes, removal, relocation and/ or replacement of existing mailboxes shall be incidental to the work at no additional cost to the City of Houston.
8. The contractor will be responsible to use caution and due diligence where the proposed improvements are in proximity to existing private utilities including gas lines, buried or overhead cables, etc., so as to not adversely impact such private utilities inside the project area. The contractor will contact and coordinate with the private utility agencies whose facilities may be impacted by the proposed improvements as required.
9. The contractor is to comply with O.S.H.A. regulations and state of Texas law concerning excavation, trenching and shoring.
10. The contractor shall be responsible for implementing the Storm Water Pollution Prevention Plan (SWPPP) and use best practices during construction. Contractor shall also be responsible for all fees associated with Storm Water Pollution Prevention.
11. Procurement of all applicable permits from the applicable governing agencies including but not limited to lane closures, street cut and driveways.

SUMMARY OF WORK

12. No separate payment will be made for underground or surface water control. This work shall be incidental to work bid items within Document No. 00410 "Bid Form, Parts A & B".

C. Coordination

Contractor will be responsible for coordinating with residents on handling of any private features within the right-of-way a minimum of 72-hours prior to any construction activities which may impact these features. These features may include, but are not limited to: existing irrigation systems (including spray and rotary heads and related piping and electrical wiring), mailboxes, landscaping, address monuments and existing yard drains. All landscaping, irrigation and private electrical conduits and/or water line replacement and/or due to contractor activities, will be considered incidental to the various construction bid items included in Document 04010 – Bid Form, Parts A& B. Contractor shall use caution while working within the proximity of these types of facilities so as to avoid impacts. Should impacts occur, restoration shall be to a conditions that is equal or better than prior to start of construction. The repair or replacement of these type of facilities, necessitated by construction activities, will be the contractor's responsibility at no cost to the City of Houston. Contractor should verify the operation of irrigation system with the property owner prior to starting construction.

Construction of any portion of this project on the streets adjacent to existing worship facilities, schools, businesses and parks, will require a minimum of 72 hour notification to inform and coordinate construction activity and ingress/egress logistics with each entity. Uniformed Peace Officer must be employed for traffic control for work on these streets.

D. Tree Protection

Contractor is responsible for obtaining all tree removal permits prior to any tree removals that are not included in the Tree Preservation and Tree Planting Plans that are components of the construction documents for this project. The permit can be obtained by contacting Mr. Victor Cordova with the City of Houston Department of Parks and Recreation at (832) 395-8454 and/or Dale Temple at (832) 395-8459.

The tree removal permit provided to the contractor by the City of Houston prior to construction, will only be issued for the trees listed in the drawings.

Notify City of Houston Parks and Recreation Department representative Mr. Victor Cordova, City Forester, at (832) 395-8454, at least two (2) weeks in advance of clearing and cutting any tree.

Contractor shall adhere to the requirements of Document No. 01562 "Tree and Plant Protection" and Document No. 02915 "Tree Planting".

Contractor must refer to the "Tree Protection Plan" provided in the set of construction drawings.

E. Geotechnical Investigation/Categorical Exclusion for Soil Conditions

Bidder(s) must evaluate in its entirety and take into account the soil conditions for the successful implementation of the work as per the Geotechnical and BCE/ESA Reports. The Geotechnical and BCE/ESA Reports are included in the construction documents for this project.

F. Field Office

Field Office is required in this project. The field office and project identification signs will be considered incidental to mobilization.

G. General Notes

1. The flow lines and locations of all underground utilities must be located by whatever means may be required (metal detection equipment, probes, excavation, survey, coordination with utility companies) by the contractor prior to construction. All field verification work shall be completed prior to excavation for proposed utilities. No separate pay; include cost in unit price for work in appropriate sections.
2. Contractor shall coordinate ahead of time with residents for installation of planned improvements that are components of this project. No separate pay.

1.03 CASH ALLOWANCES

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

1. City of Houston Street Cut Permit Fee
2. Street Light Pole Removal or Relocation

1.04 ALTERNATES

Not Applicable.

SUMMARY OF WORK

1.05 CITY-FURNISHED PRODUCTS

- A. Items Furnished by City for Installation and Final Connection by Contractor: None
- B. Contractor's Responsibilities:
 - 1. Contractor will supply all new construction materials as outlined in Schedule of Unit Prices Work, Document No. 00410 "Bid Form, Parts A & B".
 - 2. Arrange and pay for product delivery at site.
 - 3. Receive and unload products at site, jointly with City, inspect for completeness and damage.
 - 4. Handle, store, install and finish products
 - 5. Repair or replace damaged items

1.06 WORK SEQUENCE

- A. Construct Work according to the work sequence phases provided in the construction drawings. Coordinate construction schedule and operations with Project Manager. Refer to Document No. 01325 "Construction Schedule" for specific details.
- B. In the absence of construction phases, Contractor to submit sequence of construction work for review and approval by Project Manager before commencing construction.
- C. Coordination of the Work: Refer to Section 01312 "Coordination and Meetings".

1.07 CONTRACTOR USE OF PREMISES

- A. Comply with procedures for access to the site and Contractor's use of right-of-way as specified in Document No. 01145 "Use of Premises".
- B. Maintain local driveway access to residential and commercial properties adjacent to work areas. Provide temporary driveway access to driveways in accordance with Document No. 01555 "Traffic Control and Regulation" and Document No. 01145 "Use of Premises". Coordinate with business owners and residents.
- C. Construction Operations are limited to City's right-of-way provided by the City and areas shown or described in the Contract documents.
- D. The City's Utility Maintenance Division is not bound to assist the contractor in locating existing water mains during construction. The existing utility lines with less than 4-inch in diameter are not shown on the profile of design drawings but they do exist as per plan and contractor shall pre-locate as required.
- E. Utility Outages and Shutdown: Provide notification to the City and private utility companies (when applicable) a minimum of 48 hours, excluding weekends and holidays, in advance of required utility shutdown. Coordinate all work with the City as required. Contractor shall contact utility coordinating committee at (713) 223-4567 or 1-800-669-8344 or Texas 811 a minimum of 48 hours prior to construction to field locate utilities.

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 and comply with amendments provided by Texas Ordinance No. 2006-0595.
- 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.

1.09 WARRANTY

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:
 - 1. All pay items complete report.
 - 2. All testing shall be completed and accepted by the CITY OF HOUSTON PWE Construction Project Manager.
 - 3. All safety related systems and equipment shall be installed, accepted by the manufacturer's representative and approved for use.
- B. No additional condition described in Paragraph 1.10 may be included in Contractor's punch list.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION