

AGENDA

CITY OF HOUSTON ■ CITY COUNCIL

August 28 & 29, 2018

MAYOR
SYLVESTER TURNER

CONTROLLER
CHRIS B. BROWN

DISTRICT COUNCIL MEMBERS

Brenda Stardig
District A

Steve Le
District F

Jerry Davis
District B

Greg Travis
District G

Ellen R. Cohen
District C

Karla Cisneros
District H

Dwight A. Boykins
District D

Robert Gallegos
District I

Dave Martin
District E

Mike Laster
District J

Martha Castex-Tatum
District K

AT-LARGE COUNCIL MEMBERS

Mike Knox
Position 1

Michael Kubosh
Position 3

David W. Robinson
Position 2

Amanda K. Edwards
Position 4

Jack Christie D.C.
Position 5

Marta Crinejo Director - City Council Agenda

Anna Russell City Secretary

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To reserve time to appear before Council call 832-393-1100 or come to the Office of the City Secretary, City Hall Annex, Public Level at least 30 minutes prior to the scheduled public session shown on the agenda.

NOTE: If a translator is required, please advise when reserving time to speak

AGENDA - COUNCIL MEETING Tuesday, August 28, 2018 - 1:30 PM
City Hall Chamber

PRESENTATIONS

2:00 P.M. – INVOCATION AND PLEDGE OF ALLEGIANCE

Council Member Knox

ROLL CALL AND ADOPT MINUTES OF PREVIOUS MINUTES

PUBLIC SPEAKERS - Pursuant to City Council Rule 8, City Council will hear from members of the public; the names and subject matters of persons who had requested to speak at the time of posting this Agenda are attached; the names and subject matters of persons who subsequently request to speak may be obtained in the City Secretary's Office.

NOTE: If a translator is required, please advise when reserving time to speak

SP082818

RECESS

RECONVENE

WEDNESDAY - August 29, 2018 - 9:00 A. M.

DESCRIPTIONS OR CAPTIONS OF AGENDA ITEMS WILL BE READ BY
THE
CITY SECRETARY PRIOR TO COMMENCEMENT

MAYOR'S REPORT

CONSENT AGENDA NUMBERS 1 through 32

MISCELLANEOUS - NUMBERS 1 through 7

1. REQUEST from Mayor for confirmation of the appointment or reappointment of the following individuals to the **BOARD OF DIRECTORS OF TAX INCREMENT REINVESTMENT ZONE NUMBER TWENTY-ONE, CITY OF HOUSTON, TEXAS (HARDY/NEAR NORTHSIDE ZONE)**:
Position One - **FERNANDO ZAMARRIPA**, reappointment, for a term to expire 12/31/2019
Position Two - **MARIO A. CASTILLO**, appointment, for a term to expire 12/31/2018
Position Three - **EDWARD "ED" REYES**, reappointment, for a term to expire 12/31/2019, and to serve as Chair for a term ending 12/31/2018
Position Four - **SYLVIA CAVAZOS**, reappointment, for a term to expire 12/31/2018
Position Five - **LLOYD BURKE**, reappointment, for a term to expire 12/31/2019

Position Seven - **RICHARD CANTÚ**, reappointment, for a term to expire 12/31/2019

2. REQUEST from Mayor for confirmation of the appointment or reappointment of the following individuals to the **BOARD OF DIRECTORS OF THE HARDY/NEAR NORTHSIDE REDEVELOPMENT AUTHORITY**:

Position One - **FERNANDO ZAMARRIPA**, reappointment, for a term to expire 12/31/2019

Position Two - **MARIO A. CASTILLO**, appointment, for a term to expire 12/31/2018

Position Three - **EDWARD “ED” REYES**, reappointment, for a term to expire 12/31/2019, and to serve as Chair for a term ending 12/31/2018

Position Four - **SYLVIA CAVAZOS**, reappointment, for a term to expire 12/31/2018

Position Five - **LLOYD BURKE**, reappointment, for a term to expire 12/31/2019

Position Seven - **RICHARD CANTÚ**, reappointment, for a term to expire 12/31/2019

3. REQUEST from Mayor for confirmation of the appointment or reappointment of the following individuals to **REINVESTMENT ZONE NUMBER TWO (also known as the MIDTOWN ZONE) BOARD OF DIRECTORS**:

Position Three - **GAYLE R. FORTSON**, appointment, for a term to expire 12/31/2018:

Position Four - **PAMELA CASTLEMAN**, reappointment, for a term to expire 12/31/2018

Position Five - **HAROLD A. “AL” ODOM, III**, reappointment, for a term to expire 12/31/2018, and to serve as Chair for a term to expire 12/31/2018

Position Six - **ABE S. GOREN**, reappointment, for a term to expire 12/31/2019

Position Seven - **CATON M. FENZ**, reappointment, for a term to expire 12/31/2019

4. REQUEST from Mayor for confirmation of the appointment or reappointment of the following individuals to **BOARD of DIRECTORS of the MIDTOWN REDEVELOPMENT AUTHORITY**:

Position Three - **GAYLE R. FORTSON**, appointment, for a term to expire 12/31/2018:

Position Four - **PAMELA CASTLEMAN**, reappointment, for a term to expire 12/31/2018

Position Five - **HAROLD A. “AL” ODOM, III**, reappointment, for a term to expire 12/31/2018, and to serve as Chair for a term to expire 12/31/2018

Position Six - **ABE S. GOREN**, reappointment, for a term to expire 12/31/2019

Position Seven - **CATON M. FENZ**, reappointment, for a term to expire 12/31/2019

5. ****PULLED – This item will not be considered on 8/29**

REQUEST from Mayor for confirmation of the appointment or reappointment of the following individuals to the **BOARD OF DIRECTORS OF TAX INCREMENT REINVESTMENT ZONE NUMBER TWENTY-THREE (also known as the “HARRISBURG ZONE”)**:

Position One - **JAMES K. CARDONA**, reappointment, for a term to expire

12/31/2019

Position Two - **ANTHONY J. PATRONELLA, II**, reappointment, for a term to expire 12/31/2018

Position Three - **JERRY MICHAEL ACOSTA**, reappointment, for a term to expire 12/31/2019

Position Four - **GILDA RAMIREZ**, reappointment, for a term to expire 12/31/2018

Position Five - **ROSA M. GUZMAN**, appointment, for a term to expire 12/31/2019

6. RECOMMENDATION from the Director of the Finance Department that the City Council receive the 2018 Appraisal Roll Information, Certification of the Anticipated Collection Rate and appoint Melissa Dubowski and Alma Tamborello to calculate and publish the City's Effective and Rollback Tax Rates in accordance with the "Truth-in-Taxation" provisions of the State Tax Code and Local Government Code
7. RECOMMENDATION from Director Planning and Development Department supporting Community Action Plans for five Complete Communities: Acres Homes, Gulfton, Near Northside, Second Ward and Third Ward - **DISTRICTS A - STARDIG; B - DAVIS; D - BOYKINS; H - CISNEROS and J - LASTER**

PROPERTY - NUMBERS 8 and 9

8. ORDINANCE finding and determining that public convenience and necessity no longer require the continued use of Clara Road, a/k/a Clara Street, from its northern terminus south \pm 1448 feet to an unnamed road south, from Clara Road, a/k/a Clara Street, west to its terminus, and Crawford Road, a/k/a Crawford Street, from the southern property line of Lot 7, Block 4, north \pm 217 feet, located in the Clara Heights Subdivision and Independence Gardens Addition, and being out of the W.C.R.R. Co. Survey, Abstract No. 1185, Harris County, Texas; abandoning such streets to **USA WASTE of TEXAS LANDFILLS, INC**, the abutting owner, in consideration of its payment to the City of \$188,632.00, conveyance to the City of three right of way easements for construction of cul-de-sacs at the termini of Clara Road, a/k/a Clara Street, and Crawford Road, a/k/a Crawford Street, also located within the Independence Gardens Addition, and other good and valuable consideration - **DISTRICT A - STARDIG**
9. RECOMMENDATION from Director Houston Public Works, reviewed and approved by the Joint Referral Committee, on request from Phillip Reid Matthews, II, Golder Associates, on behalf of USA Waste of Texas Landfills, Inc, (James A. Wilson, Vice President), declining the acceptance of, rejecting, and refusing the dedication of Unnamed Road North, from Clara Road west to its terminus, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185, Parcel SY17-057 - **DISTRICT A - STARDIG**
This item should only be considered after passage of Item 8 above

PURCHASING AND TABULATION OF BIDS - NUMBERS 10 through 13

10. **FARRWEST ENVIRONMENTAL SUPPLY, INC** for approval of spending authority to purchase Equipment Calibration and Maintenance Program Service through the Interlocal Agreement for Cooperative Purchasing with the Houston-Galveston Area Council for the Houston Fire Department
11. **POLYDYNE, INC** for Supply of Liquid Polymer Flocculent Chemicals (Drinking Water Operations) for Houston Public Works - 60 Months - \$27,250,000.00 - Enterprise Fund
12. **DEERE AND COMPANY** for Purchase of Nineteen Utility Carts through the Interlocal Agreement for Cooperative Purchasing with the Houston-Galveston Area Council for Houston Public Works \$297,562.47 - Enterprise Fund
13. **SERVICWEAR APPAREL, INC (National IPA Contractor)** - \$5,375,483.17, **TRIPLE D UNIFORM RENTAL, INC** - \$2,744,752.35 and **CINTAS CORPORATION** - \$123,150.00 for Apparel and Uniforms for Various Departments - 3 Years with two one-year options - General, Enterprise and Other Funds

ORDINANCES - NUMBERS 14 through 32

14. ORDINANCE finding and determining that public convenience and necessity no longer require the continued use of a 1,462 square foot portion of a 10-foot-wide water line easement and a 3,691 square-foot portion of a 30-foot-wide water line easement, both easement portions being located in the James Hamilton Survey, Abstract No. 887, Harris County, Texas; abandoning such portions of the easements to Stadium Realty, LLC, the abutting owner, in consideration of its conveyance to the City of a 4,867 square-foot water line easement, a 200 square-foot water meter easement, payment to the City of \$3,100.00, and other consideration - **DISTRICT K – CASTEX-TATUM**
15. ORDINANCE approving and authorizing Land Assembly and Development Grant Agreement and an Acquisition and Development Agreement between the City of Houston and **THE LAND ASSEMBLAGE REDEVELOPMENT AUTHORITY, now doing business as THE HOUSTON LAND BANK**, to provide funds for the acquisition and development of land for affordable housing
16. ORDINANCE 1) approving and authorizing an eighth amendment to Land Assembly Grant Agreement between the City of Houston and **THE LAND ASSEMBLAGE REDEVELOPMENT AUTHORITY, now doing business as THE HOUSTON LAND BANK**, to provide funds to reimburse certain approved costs and providing for the transfer of funds previously authorized to be used for costs in certain budget categories (“targeted funds”) to Land Assembly Acquisition Fund to be used for costs related to land acquisition and development; 2) authorizing the transfer of the targeted funds to the Land Assembly Acquisition Fund
17. ORDINANCE amending Ordinance No. 2014-0055, as amended, to increase the maximum contract amount of contract between the City of Houston and **FUNDACION LATINOAMERICANA DE ACCION SOCIAL**,

INC for HIV Counseling, Testing and Referral Services - \$15,000.00 - Grant Fund

18. ORDINANCE approving and authorizing submission of an application for grant assistance to **ROCKEFELLER PHILANTHROPY ADVISORS, INC**; accepting a grant for the City of Houston to participate in the 100 Resilient Cities Program; approving an agreement between the City of Houston and **ROCKEFELLER PHILANTHROPY ADVISORS, INC**; authorizing the Director of the City's Planning and Development Department to act as the City's representative to accept and expend the grant funds, and to apply for and accept all subsequent awards, if any
19. ORDINANCE denying the application of **ENTERGY TEXAS, INC** for authority to change rates; maintaining current rates
20. ORDINANCE approving Interlocal Agreement between the City of Houston, Texas and **HARRIS COUNTY, TEXAS**, for co-ownership of approximately 1.602 acres tract of land located at 6941 Avenue S and owned by the County, to be used to connect the County's Yolanda Black Navarro Buffalo Bend Nature Park and the City's Hidalgo Park; appropriating \$150,000.00 out of Park and Recreation Dedication Fund to be paid to County for a 20% interest in the land for use by the Houston Parks and Recreation Department - **DISTRICT I - GALLEGOS**
21. ORDINANCE appropriating \$607,500.00 out of Airports Improvement Fund and approving and authorizing contract between the City of Houston and **LAYER 3 COMMUNICATIONS, LLC** for WIFI Maintenance Services for the Houston Airport System; providing a maximum contract amount - 3 Years with two one-year options - \$1,838,943.80 - Enterprise Fund
22. ORDINANCE approving and authorizing agreements between the City of Houston and **SPAY-NEUTER ASSISTANCE PROGRAM, INC, EMANCIPET, INC, and HOUSTON HUMANE SOCIETY** for Spay and Neutering Services for the Administration and Regulatory Affairs Department; providing a maximum contract amount - 3 Years with two one-year options - \$3,800,000.00 - BARC Special Revenue Fund
23. ORDINANCE awarding contract to **QUESTMARK INFORMATION MANAGEMENT, INC** for Jury Management System Services for the Municipal Courts Department; providing a maximum contract amount - 3 Years with two one-year options - \$327,000.00 - General and Other Funds
24. ORDINANCE relating to the Fiscal Affairs of the **SOUTH POST OAK REDEVELOPMENT AUTHORITY on behalf of REINVESTMENT ZONE NUMBER NINE, CITY OF HOUSTON, TEXAS (SOUTH POST OAK ZONE)**; approving the Fiscal Year 2019 Operating Budget for the Authority and the Fiscal Years 2019-2023 Capital Improvement Projects Budget for the Zone - **DISTRICT K - CASTEX-TATUM**
25. ORDINANCE amending Ordinance No. 2018-317 establishing the north and south sides of the 1700-1800 blocks of Maryland Street, within the City of Houston, Texas, as a special minimum lot size block to replace the Exhibit "A" attached thereto - **DISTRICT C - COHEN**
26. ORDINANCE consenting to the addition of 142.381 acres of land to **HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 460**, for

inclusion in its District; granting consent to exercise road powers and authorizing the District to issue bonds for road facilities within the City of Houston, Texas, subject to certain conditions - **DISTRICTS D - BOYKINS and I - GALLEGOS**

27. ORDINANCE appropriating \$2,065,092.00 out of Street & Traffic Control and Storm Drainage DDSRF and approving and authorizing Professional Engineering Services Contract between the City of Houston and **CIVILTECH ENGINEERING, INC** for Drainage and Paving Improvements for Cottage Grove East; providing funding for CIP Cost Recovery relating to construction of facilities financed by the Street & Traffic Control and Storm Drainage DDSRF - **DISTRICT C - COHEN**
28. ORDINANCE appropriating \$206,000.00 out of Metro Projects Construction DDSRF as an additional appropriation to Professional Engineering Services Contract between the City of Houston and **AIA ENGINEERS, LTD** for the Roadway Surface Replacement FY2016 Program (as approved by Ordinance No. 2016-0016); providing funding for CIP Cost Recovery relating to construction of facilities financed by the Metro Projects Construction DDSRF - **DISTRICTS E - MARTIN and K - CASTEX-TATUM**
29. ORDINANCE appropriating \$2,571,481.00 out of Water & Sewer System Consolidated Construction Fund, awarding contract to **MCKINNEY CONSTRUCTION, INC** for Waterline Replacement in Binglewood Area; setting a deadline for the bidder's execution of the contract and delivery of all bonds, insurance, and other required contract documents to the City; holding the bidder in default if it fails to meet the deadlines; providing funding for testing services, CIP Cost Recovery, and contingencies relating to construction of facilities financed by the Water & Sewer System Consolidated Construction Fund - **DISTRICT A - STARDIG**
30. ORDINANCE appropriating \$2,873,796.00 out of Water & Sewer System Consolidated Construction Fund, awarding contract to **MCKINNEY CONSTRUCTION, INC** for Waterline Replacement in Tanglewilde Area; setting a deadline for the bidder's execution of the contract and delivery of all bonds, insurance, and other required contract documents to the City; holding the bidder in default if it fails to meet the deadlines; providing funding for testing services, CIP Cost Recovery, and contingencies relating to construction of facilities financed by the Water & Sewer System Consolidated Construction Fund - **DISTRICTS F - LE and J - LASTER**
31. ORDINANCE authorizing the transfer of \$17,012,755.49 from NETL Expansion-Swift Fund to HPW-NETL Construction Fund and appropriating said sum out of HPW-NETL Construction Fund, appropriating \$22,857,775.30 out of Water Authorities Capital Contribution-NETL Fund, appropriating \$1,565,269.21 out of Water & Sewer System Consolidated Construction Fund, awarding contract to **HARPER BROTHERS CONSTRUCTION, LLC** for 108-inch Water Line along city easements from Smith Road to Lee Road; setting a deadline for the bidder's execution of the contract and delivery of all bonds, insurance, and other required contract documents to the City; holding the bidder in default if it fails to meet the deadlines; providing funding for testing services, CIP Cost Recovery, construction management, construction program management services, construction phase engineering services, and contingencies relating to

construction of facilities financed by the HPW-NETL Construction Fund, Water Authorities Capital Contribution-NETL Fund, Water & Sewer System Consolidated Construction Fund - **DISTRICT B - DAVIS**

32. ORDINANCE appropriating \$9,073,900.00 out of Water & Sewer System Consolidated Construction Fund, awarding contract to **HARPER BROTHERS CONSTRUCTION, LLC** for Miscellaneous Large Diameter Water Line Improvements - Package 1; setting a deadline for the bidder's execution of the contract and delivery of all bonds, insurance, and other required contract documents to the City; holding the bidder in default if it fails to meet the deadlines; providing funding for testing service, CIP Cost Recovery, construction phase engineering services and contingencies relating to construction of facilities financed by the Water & Sewer System Consolidated Construction Fund - **DISTRICTS F - LE; H - CISNEROS; I - GALLEGOS; J - LASTER and K - CASTEX-TATUM**

END OF CONSENT AGENDA

CONSIDERATION OF MATTERS REMOVED FROM CONSENT AGENDA

NON CONSENT AGENDA - NUMBER 33

NON-CONSENT - MISCELLANEOUS

33. **SET A PUBLIC HEARING DATE** relating to providing an aerial easement on the south side of San Jacinto River and being a portion of Dwight D. Eisenhower Park - **DISTRICT E - MARTIN**
HEARING DATE - 9:00A.M. - WEDNESDAY - SEPTEMBER 26, 2018

MATTERS HELD - NUMBERS 34 and 35

34. RESOLUTION accepting New Chapters 9 and 13 of the City of Houston Infrastructure Design Manual
TAGGED BY COUNCIL MEMBERS STARDIG and KNOX
This was Item 17 on Agenda of August 23, 2018
35. ORDINANCE amending Sections 103, 105, 106, 114 and 115 of that Volume of the City of Houston Construction Code known as the City of Houston Building Code relating to permit requirements for engineered grading; containing findings and other provisions related to the foregoing subject; providing for severability; providing an effective date
TAGGED BY COUNCIL MEMBERS STARDIG, KNOX and EDWARDS
This was Item 18 on Agenda of September 22, 2018

MATTERS TO BE PRESENTED BY COUNCIL MEMBERS - Council Member Stardig first

ALL ORDINANCES ARE TO BE CONSIDERED ON AN EMERGENCY BASIS AND TO BE PASSED ON ONE READING UNLESS OTHERWISE NOTED, ARTICLE VII, SECTION 7, CITY CHARTER

NOTE

- WHENEVER ANY AGENDA ITEM, WHETHER OR NOT ON THE CONSENT AGENDA, IS NOT READY FOR COUNCIL ACTION AT THE TIME IT IS REACHED ON THE AGENDA, THAT ITEM SHALL BE PLACED AT THE END OF THE AGENDA FOR ACTION BY COUNCIL WHEN ALL OTHER AGENDA ITEMS HAVE BEEN CONSIDERED.

CITY COUNCIL RESERVES THE RIGHT TO TAKE UP AGENDA ITEMS OUT OF THE ORDER IN WHICH THEY ARE POSITIONED IN THIS AGENDA. ALSO, AN ITEM THAT HAS BEEN TAGGED UNDER CITY COUNCIL RULE (HOUSTON CITY CODE 2-2) OR DELAYED TO ANOTHER DAY MAY BE NEVERTHELESS CONSIDERED LATER AT THE SAME CITY COUNCIL MEETING.



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

Item Creation Date:

SP082818

Agenda Item#:

ATTACHMENTS:

Description	Type
SP082818	Signed Cover sheet

***CITY COUNCIL CHAMBER - CITY HALL 2nd FLOOR – TUESDAY
AUGUST 28, 2018 – 2:00 PM***

NON-AGENDA

1 MIN	1 MIN	1 MIN
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CLAIR KIMPEL – 806 Thornvine Ln. – 77079 – 713-240-8716 – Putting business flag on private property

3 MIN	3 MIN	3 MIN
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DEBORAH ELAINE ALLEN – Post Office Box 263252 – 77027 - 713-264-0127 – Will appear to express personal opinion

DANIEL KEBORT – No Address – 713-899-8084 – Post Oak Poker Club

SAMSON HARPER – 5825 Cobalt St. – 77016 – 281-590-5095 – Neighborhood issues

PREVIOUS

1 MIN	1 MIN	1 MIN
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CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

Item Creation Date: 8/14/2018

MYR ~ 2018 TIRZ # 21 ReAppt. ltr. 8-14-18

Agenda Item#: 1.

Summary:

REQUEST from Mayor for confirmation of the appointment or reappointment of the following individuals to the **BOARD OF DIRECTORS OF TAX INCREMENT REINVESTMENT ZONE NUMBER TWENTY-ONE, CITY OF HOUSTON, TEXAS (HARDY/NEAR NORTHSIDE ZONE)**:

Position One - **FERNANDO ZAMARRIPA**, reappointment, for a term to expire 12/31/2019

Position Two - **MARIO A. CASTILLO**, appointment, for a term to expire 12/31/2018

Position Three - **EDWARD "ED" REYES**, reappointment, for a term to expire 12/31/2019, and to serve as Chair for a term ending 12/31/2018

Position Four - **SYLVIA CAVAZOS**, reappointment, for a term to expire 12/31/2018

Position Five - **LLOYD BURKE**, reappointment, for a term to expire 12/31/2019

Position Seven - **RICHARD CANTU**, reappointment, for a term to expire 12/31/2019

Background:

August 6, 2018

The Honorable City Council
City of Houston, Texas

Dear Council Members:

Pursuant to City of Houston, Texas Ordinance No. 2003-1258, I am nominating the following individuals for appointment or reappointment to the Board of Directors of Tax Increment Reinvestment Zone Number Twenty-One, City of Houston, Texas (Hardy/Near Northside Zone), subject to Council confirmation:

Fernando Zamarripa, reappointment to Position One, for a term to expire December 31, 2019;
Mario A. Castillo, appointment to Position Two, for a term to expire December 31, 2018;
Edward "Ed" Reyes, reappointment to Position Three for a term to expire December 31, 2019, and to serve as Chair for a term ending December 31, 2018;
Sylvia Cavazos, reappointment to Position Four, for a term to expire December 31, 2018;
Lloyd Burke, reappointment to Position Five, for a term to expire December 31, 2019;
and
Richard Cantú, reappointment to Position Seven, for a term to expire December 31, 2019.

The résumés of the nominees are attached for your review.

Sincerely,

Sylvester Turner
Mayor

ST:MM:jsk

Attachment

cc: Ms. Gwen Tillotson, Deputy Director, Mayor's Office of Economic Development

ATTACHMENTS:

Description

Type



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

Item Creation Date: 8/14/2018

MYR ~ 2018 Hardy/Near Northside Redevelopment
Authority ReAppt ltr. 8-14-2018

Agenda Item#: 2.

Summary:

REQUEST from Mayor for confirmation of the appointment or reappointment of the following individuals to the **BOARD OF DIRECTORS OF THE HARDY/NEAR NORTHSIDE REDEVELOPMENT AUTHORITY**:

Position One - **FERNANDO ZAMARRIPA**, reappointment, for a term to expire 12/31/2019

Position Two - **MARIO A. CASTILLO**, appointment, for a term to expire 12/31/2018

Position Three - **EDWARD "ED" REYES**, reappointment, for a term to expire 12/31/2019, and to serve as Chair for a term ending 12/31/2018

Position Four - **SYLVIA CAVAZOS**, reappointment, for a term to expire 12/31/2018

Position Five - **LLOYD BURKE**, reappointment, for a term to expire 12/31/2019

Position Seven - **RICHARD CANTÚ**, reappointment, for a term to expire 12/31/2019

Background:

August 6, 2018

The Honorable City Council
City of Houston, Texas

Dear Council Members:

Pursuant to the Bylaws of the Hardy/Near Northside Redevelopment Authority ("Authority"), I am nominating the following individuals for appointment or reappointment to the Board of Directors of this Zone constitutes appointment of such director to the corresponding position on the Board of Directors of the Authority for the same term, subject to Council confirmation:

Fernando Zamarripa, reappointment to Position One, for a term to expire December 31, 2019;

Mario A. Castillo, appointment to Position Two, for a term to expire December 31, 2018;

Edward "Ed" Reyes, reappointment to Position Three for a term to expire December 31, 2019, and to serve as Chair for a term ending December 31, 2018;

Sylvia Cavazos, reappointment to Position Four, for a term to expire December 31, 2018;

Lloyd Burke, reappointment to Position Five, for a term to expire December 31, 2019;

and

Richard Cantú, reappointment to Position Seven, for a term to expire December 31, 2019.

The résumés of the nominees are attached for your review.

Sincerely,

Sylvester Turner
Mayor

ST:MM:jsk

Attachment

cc: Ms. Gwen Tillotson, Deputy Director, Mayor's Office of Economic Development

ATTACHMENTS:

Description

Type



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

Item Creation Date: 8/14/2018

MYR~2018 TIRZ # 2 ReAppt ltr. 8-14-2018

Agenda Item#: 3.

Summary:

REQUEST from Mayor for confirmation of the appointment or reappointment of the following individuals to **REINVESTMENT ZONE NUMBER TWO (also known as the MIDTOWN ZONE) BOARD OF DIRECTORS:**

Position Three - **GAYLE R. FORTSON**, appointment, for a term to expire 12/31/2018:

Position Four - **PAMELA CASTLEMAN**, reappointment, for a term to expire 12/31/2018

Position Five - **HAROLD A. "AL" ODOM, III**, reappointment, for a term to expire 12/31/2018, and to serve as Chair for a term to expire 12/31/2018

Position Six - **ABE S. GOREN**, reappointment, for a term to expire 12/31/2019

Position Seven - **CATON M. FENZ**, reappointment, for a term to expire 12/31/2019

Background:

August 13, 2018

The Honorable City Council
City of Houston, Texas

Dear Council Members:

Pursuant to City of Houston, Texas Ordinance No. 94-1345, as amended, I am nominating the following individuals for appointment or reappointment to the Reinvestment Zone Number Two (also known as the Midtown Zone) Board of Directors, subject to City Council confirmation:

Gayle R. Fortson, appointment to Position Three, for a term to expire December 31, 2018;
Pamela Castleman, reappointment to Position Four, for a term to expire December 31, 2018;
Harold A. "Al" Odom III, reappointment to Position Five, for a term to expire December 31, 2018, and to serve as Chair for a term to expire December 31, 2018;

Abe S. Goren, reappointment to Position Six, for a term to expire December 31, 2019; and
Caton M. Fenz, reappointment to Position Seven, for a term to expire December 31, 2019.

The résumés of the nominees are attached for your review.

Sincerely,

Sylvester Turner
Mayor

ST:MDPM:jsk

Attachments

cc: Ms. Gwen Tillotson, Deputy Director, Mayor's Office of Economic Development

ATTACHMENTS:

Description

Type



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

Item Creation Date: 8/14/2018

MYR ~ 2018 Midtown Redevelopment Authority ReAppt ltr.
8-14-18

Agenda Item#: 4.

Summary:

REQUEST from Mayor for confirmation of the appointment or reappointment of the following individuals to **BOARD of DIRECTORS of the MIDTOWN REDEVELOPMENT AUTHORITY:**

Position Three - **GAYLE R. FORTSON**, appointment, for a term to expire 12/31/2018:

Position Four - **PAMELA CASTLEMAN**, reappointment, for a term to expire 12/31/2018

Position Five - **HAROLD A. "AL" ODOM, III**, reappointment, for a term to expire 12/31/2018, and to serve as Chair for a term to expire 12/31/2018

Position Six - **ABE S. GOREN**, reappointment, for a term to expire 12/31/2019

Position Seven - **CATON M. FENZ**, reappointment, for a term to expire 12/31/2019

Background:

August 13, 2018

The Honorable City Council
City of Houston, Texas

Dear Council Members:

Pursuant to City of Houston, Texas Resolution No. 95-96, as amended by Ordinance No. 2013-637, I am nominating the following individuals for appointment or reappointment to the Board of Directors of the Midtown Redevelopment Authority, subject to City Council confirmation:

Gayle R. Fortson, appointment to Position Three, for a term to expire December 31, 2018;
Pamela Castleman, reappointment to Position Four, for a term to expire December 31, 2018;
Harold A. "Al" Odom III, reappointment to Position Five, for a term to expire December 31, 2018, and to serve as Chair for a term to expire December 31, 2018;
Abe S. Goren, reappointment to Position Six, for a term to expire December 31, 2019; and
Caton M. Fenz, reappointment to Position Seven, for a term to expire December 31, 2019.

The résumés of the nominees are attached for your review.

Sincerely,

Sylvester Turner
Mayor

ST:MDPM:jsk

Attachments

cc: Ms. Gwen Tillotson, Deputy Director, Mayor's Office of Economic Development

ATTACHMENTS:

Description

Type



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

Item Creation Date: 8/15/2018

MYR ~ 2018 TIRZ # 23 & Harrisburg Zone ReAppt ltr 8-15-18

Agenda Item#: 5.

Summary:

****PULLED – This item will not be considered on 8/29**

REQUEST from Mayor for confirmation of the appointment or reappointment of the following individuals to the **BOARD OF DIRECTORS OF TAX INCREMENT REINVESTMENT ZONE NUMBER TWENTY-THREE** (also known as the “**HARRISBURG ZONE**”):

Position One - **JAMES K. CARDONA**, reappointment, for a term to expire 12/31/2019

Position Two - **ANTHONY J. PATRONELLA, II**, reappointment, for a term to expire 12/31/2018

Position Three - **JERRY MICHAEL ACOSTA**, reappointment, for a term to expire 12/31/2019

Position Four - **GILDA RAMIREZ**, reappointment, for a term to expire 12/31/2018

Position Five - **ROSA M. GUZMAN**, appointment, for a term to expire 12/31/2019

Background:

August 13, 2018

The Honorable City Council
City of Houston, Texas

Dear Council Members:

Pursuant to City of Houston, Texas, Ordinance No. 2011-900, I am nominating the following individuals for appointment or reappointment to the Board of Directors of Tax Increment Reinvestment Zone Number Twenty-Three (also known as the “Harrisburg Zone”), subject to City Council confirmation:

James K. Cardona, reappointment to Position One, for a term to expire December 31, 2019;

Anthony J. Patronella, II, reappointment to Position Two, for a term to expire December 31, 2018;

Jerry Michael Acosta, reappointment to Position Three, for a term to expire December 31, 2019;

Gilda Ramirez, reappointment to Position Four, for a term to expire December 31, 2018;

and

Rosa M. Guzman, appointment to Position Five, for a term to expire December 31, 2019.

Pursuant to the Bylaws of the Harrisburg Redevelopment Authority (“Authority”), appointment by

the City of a person to the corresponding position of the board of the Harrisburg Zone shall constitute appointment by the City of such person to the corresponding position of the board of the Authority.

The résumés of the nominees are attached for your review

Sincerely,

Sylvester Turner
Mayor

Attachments

cc: Ms. Gwen Tillotson, Deputy Director, Mayor's Office of Economic Development

August 13, 2018

The Honorable City Council
City of Houston, Texas

Dear Council Members:

Pursuant to City of Houston, Texas, Ordinance No. 2011-900, I am nominating the following individuals for appointment or reappointment to the Board of Directors of Tax Increment Reinvestment Zone Number Twenty-Three (also known as the "Harrisburg Zone"), subject to City Council confirmation:

James K. Cardona, reappointment to Position One, for a term to expire December 31, 2019;
Anthony J. Patronella, II, reappointment to Position Two, for a term to expire December 31, 2018;
Jerry Michael Acosta, reappointment to Position Three, for a term to expire December 31, 2019;
Gilda Ramirez, reappointment to Position Four, for a term to expire December 31, 2018;
and
Rosa M. Guzman, appointment to Position Five, for a term to expire December 31, 2019.

Pursuant to the Bylaws of the Harrisburg Redevelopment Authority ("Authority"), appointment by the City of a person to the corresponding position of the board of the Harrisburg Zone shall constitute appointment by the City of such person to the corresponding position of the board of the Authority.

The résumés of the nominees are attached for your review

Sincerely,

Sylvester Turner
Mayor

Attachments

cc: Ms. Gwen Tillotson, Deputy Director, Mayor's Office of Economic Development

ATTACHMENTS:

Description

Type



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

Item Creation Date:

FIN Truth in Taxation 2018 #1

Agenda Item#: 6.

Summary:

RECOMMENDATION from the Director of the Finance Department that the City Council receive the 2018 Appraisal Roll Information, Certification of the Anticipated Collection Rate and appoint Melissa Dubowski and Alma Tamborello to calculate and publish the City's Effective and Rollback Tax Rates in accordance with the "Truth-in-Taxation" provisions of the State Tax Code and Local Government Code

Background:

RECOMMENDATION: (Summary) from the Director of the Finance Department that the City Council receive the 2018 Appraisal Roll Information, Certification of the Anticipated Collection Rate and appoint Melissa Dubowski and Alma Tamborello to calculate and publish the City's Effective and Rollback Tax Rates in accordance with the "Truth-in-Taxation" provisions of the Texas Tax Code and Texas Local Government Code.

The Truth-In-Taxation provisions of the State Tax Code and Local Government Code require the City to take certain steps before adopting its ad valorem tax rate each year. The first of these steps are to; (1) submit the City's tax year 2018 appraisal roll information to City Council, (2) certify an anticipated collection rate to City Council, and (3) appoint representatives to calculate and publish the Effective and Rollback Tax Rates.

Attached are the required reports of the tax year 2018 appraisal roll information and the certification of anticipated collection rate.

It is recommended that the City Council receive the tax year 2018 Appraisal Roll Information, Certification of the Anticipated Collection Rate and appoint Melissa Dubowski and Alma Tamborello to calculate and publish the City's Effective and Rollback Tax Rates in accordance with the "Truth-In-Taxation" provisions of the State Tax Code and Local Government Code.

Prior Council Action:

August 30, 2017

Motion No. 2017 0532

Contact Information:

Melissa Dubowski, Assistant Director **Phone:** 832-393-9101

Alma Tamborello, Interim Division Manager **Phone:** 832-393-9099

Tantri Emo, Finance Director

ATTACHMENTS:

Description

Coversheet

Type

Signed Cover sheet

CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

Item Creation Date:

FIN Truth in Taxation 2018 #1

Agenda Item#: 1.

Summary:

RECOMMENDATION from the Director of the Finance Department that the City Council receive the 2018 Appraisal Roll Information, Certification of the Anticipated Collection Rate and appoint Melissa Dubowski and Alma Tamborello to calculate and publish the City's Effective and Rollback Tax Rates in accordance with the "Truth-in-Taxation" provisions of the Texas Tax Code and Texas Local Government Code.

Background:

RECOMMENDATION: (Summary) from the Director of the Finance Department that the City Council receive the 2018 Appraisal Roll Information, Certification of the Anticipated Collection Rate and appoint Melissa Dubowski and Alma Tamborello to calculate and publish the City's Effective and Rollback Tax Rates in accordance with the "Truth-in-Taxation" provisions of the Texas Tax Code and Texas Local Government Code.

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Attached are the required reports of the tax year 2018 appraisal roll information and the certification of anticipated collection rate.

It is recommended that the City Council receive the tax year 2018 Appraisal Roll Information, Certification of the Anticipated Collection Rate and appoint Melissa Dubowski and Alma Tamborello to calculate and publish the City's Effective and Rollback Tax Rates in accordance with the "Truth-In-Taxation" provisions of the State Tax Code and Local Government Code.

Prior Council Action:

August 30, 2017

Motion No. 2017 0532

Contact Information:

Melissa Dubowski, Assistant Director **Phone:** 832-393-9101

Alma Tamborello, Interim Division Manager **Phone:** 832-393-9099



Tantri Emo, Finance Director

**CITY OF HOUSTON
REPORT OF 2018 APPRAISAL ROLL INFORMATION
AND ANTICIPATED AND EXCESS COLLECTIONS**

**2018 APPRAISAL ROLL
(AS CERTIFIED BY THE CHIEF APPRAISERS OF APPRAISAL DISTRICTS)**

Total Appraised/Assessed Value:	\$248,082,143,418 ✓
--	----------------------------

Taxable Value of Certified Property:	\$214,236,501,425 ✓
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Taxable Value of Property Under Protest:	\$ 10,307,058,361 ✓
---	----------------------------

Taxable Value of Property Still Not Certified:	<u>\$ 7,446,875,783</u> ✓
---	----------------------------------

Taxable Value of All Properties:	<u>\$231,990,435,569</u> ✓
---	-----------------------------------

Taxable Value of New Improvements Included Above \$	3,707,487,751
--	----------------------

**CERTIFIED ANTICIPATED COLLECTION RATE
AND EXCESS COLLECTIONS**

The Tax Assessor-Collector of Harris County who acts as assessor and collector of ad valorem taxes for the City of Houston certified that the estimate of the anticipated collection rate for the City of Houston ad valorem taxes for tax year 2018 is 98.31% and there were \$33,766,641 of excess debt collections for tax year 2017.



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District A, District B, District D, District H, District J

Item Creation Date:

PLN Complete Communities Action Plans for the five pilot areas: Acres Home, Gulfton, Near Northside, Second Ward, and Third Ward

Agenda Item#: 7.

Summary:

RECOMMENDATION from Director Planning and Development Department supporting Community Action Plans for five Complete Communities: Acres Homes, Gulfton, Near Northside, Second Ward and Third Ward - **DISTRICTS A - STARDIG; B - DAVIS; D - BOYKINS; H - CISNEROS and J - LASTER**

Background:

The Planning and Development Department recommends passing a motion of support for the Action Plans for the five Complete Communities: Acres Home, Gulfton, Near Northside, Second Ward and Third Ward.

In accordance with Mayor Sylvester Turner's vision of creating transformational change in under-served and under-resourced neighborhoods, the Planning and Development Department provided professional planning, coordination, and advocacy services to the five Complete Communities. These five communities were the first to be included in a new, on-going program and were selected to allow the City to develop a program that works in all neighborhoods regardless of development patterns, demographics, socio-economic conditions or the strength of civic organizations.

Starting April 17, 2017, when Mayor Turner announced the Complete Communities initiative, dedicated staff across twenty-three City departments provided support and worked side-by-side with the five communities. A Complete Communities Advisory Committee, comprised of twenty-six experts and community leaders, was created to guide the initiative. The community engagement consisted of fourteen community-wide meetings and 1,400 stakeholder meetings. More than 3,500 people shared their insights, values, and visions.

A Neighborhood Support Team (NST) was created in each of the five Complete Communities. The NST was comprised of locally identified leaders, residents and allies, that guided each Complete Community effort. Topic areas include: civic engagement, economy and jobs, education, health, housing, mobility and infrastructure, neighborhood character, parks and community amenities, and safety. At the end of the public engagement process, project-specific working groups emerged to accomplish each of the goals identified in the Complete Communities Action Plans.

This community-centric effort has resulted in Action Plans that demonstrate the depth of community involvement. They also represent numerous opportunities for private investment and public private partnerships. By adopting these plans, City Council signals support and opens up opportunities for public sector funding such as Low Income Housing Tax Credits, philanthropy and private sector investment.

Patrick Walsh, P.E.
Director
Planning and Development Department

Contact Information:

Lynn Henson
Planner Manager
832-393-6600

ATTACHMENTS:

Description

Signed coversheet (revised)

Type

Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District A, District B, District D, District H, District J

Item Creation Date:

PLN Complete Communities Action Plans for the five pilot areas: Acres Home, Gulfton, Near Northside, Second Ward, and Third Ward

Agenda Item#: 7.

Summary:

RECOMMENDATION from Director Planning and Development Department supporting Community Action Plans for five Complete Communities: Acres Homes, Gulfton, Near Northside, Second Ward and Third Ward - **DISTRICTS A - STARDIG; B - DAVIS; C - COHEN; D - BOYKINS; H - CISNEROS and J - LASTER**

Background:

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In accordance with Mayor Sylvester Turner's vision of creating transformational change in under-served and under-resourced neighborhoods, the Planning and Development Department provided professional planning, coordination, and advocacy services to the five Complete Communities. These five communities were the first to be included in a new, on-going program and were selected to allow the City to develop a program that works in all neighborhoods regardless of development patterns, demographics, socio-economic conditions or the strength of civic organizations.

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This community-centric effort has resulted in Action Plans that demonstrate the depth of community involvement. They also represent numerous opportunities for private investment and public private partnerships. By adopting these plans, City Council signals support and opens up opportunities for public sector funding such as Low Income Housing Tax Credits, philanthropy and private sector investment.

Patrick Walsh, P.E.
Director
Planning and Development Department

Contact Information:

Lynn Henson
Planner Manager
832-393-6600

ATTACHMENTS:

Description

cover sheet
Third Ward Action Plan
Gulfton
Second Ward1/2
SecondWard2/2

Type

Signed Cover sheet
Signed Cover sheet
Signed Cover sheet
Signed Cover sheet
Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District A

Item Creation Date: 6/25/2018

20BAM9709B ORD Abandonment and Sale/Clara
Road/SY17-019

Agenda Item#: 8.

Summary:

ORDINANCE finding and determining that public convenience and necessity no longer require the continued use of Clara Road, a/k/a Clara Street, from its northern terminus south \pm 1448 feet to an unnamed road south, from Clara Road, a/k/a Clara Street, west to its terminus, and Crawford Road, a/k/a Crawford Street, from the southern property line of Lot 7, Block 4, north \pm 217 feet, located in the Clara Heights Subdivision and Independence Gardens Addition, and being out of the W.C.R.R. Co. Survey, Abstract No. 1185, Harris County, Texas; abandoning such streets to **USA WASTE of TEXAS LANDFILLS, INC**, the abutting owner, in consideration of its payment to the City of \$188,632.00, conveyance to the City of three right of way easements for construction of cul-de-sacs at the termini of Clara Road, a/k/a Clara Street, and Crawford Road, a/k/a Crawford Street, also located within the Independence Gardens Addition, and other good and valuable consideration - **DISTRICT A - STARDIG**

Background:

SUBJECT: Abandonment and sale of Clara Road, from its northern terminus south \pm 1448 feet, Unnamed Road South, from Clara Road west to its terminus, and Crawford Road, from the southern property line of Lot 7, Block 4 north \pm 217 feet, in exchange for conveyance to the City of rights-of-way for and construction of a cul-de-sac at the termini of Clara Road and Crawford Road, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. **Parcels SY17-019A, SY17-019B, SY17-019C, AY17-241A, AY17-241B, and AY17-242**

RECOMMENDATION: It is recommended City Council approve an ordinance authorizing the abandonment and sale of Clara Road, from its northern terminus south \pm 1448 feet, Unnamed Road South, from Clara Road west to its terminus, and Crawford Road, from the southern property line of Lot 7, Block 4 north \pm 217 feet, in exchange for a cash consideration of \$188,632.00 and conveyance to the City of rights-of-way for and construction of a cul-de-sac at the termini of Clara Road and Crawford Road, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. **Parcels SY17-019A, SY17-019B, SY17-019C, AY17-241A, AY17-241B, and AY17-242**

SPECIFIC EXPLANATION: Phillip Reid Matthews, II, Golder Associates, 500 Century Plaza Drive, Suite 190. Houston, Texas, 77073, on behalf of USA Waste of Texas Landfills, Inc., (James A. Wilson, Vice President), requested the abandonment and sale of Clara Road, from its

northern terminus south ± 1448 feet, Unnamed Road South, from Clara Road west to its terminus, and Crawford Road, from the southern property line of Lot 7, Block 4 north ± 217 feet, in exchange for conveyance to the City of rights-of-way for and construction of a cul-de-sac at the termini of Clara Road and Crawford Road, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. USA Waste of Texas Landfills, Inc., plans to incorporate the streets into its abutting property. Prior to this request the applicant acquired all the property around the subject streets to be abandoned and sold to expand its landfill. Cul-de-sacs are required at the termini of Clara Road and Crawford Road to allow vehicles to turn around at the dead ends.

USA Waste of Texas Landfills, Inc., has completed the transaction requirements, has accepted the City's offer, and has rendered payment in full.

The City will abandon and sell to USA Waste of Texas Landfills, Inc.:

Parcel SY17-019A

57,772 square feet of street easement	\$106,878.00 (R)
Valued at \$1.85 per square foot x 100%	

Parcel SY17-019B

26,606 square feet of street easement	\$49,221.00 (R)
Valued at \$1.85 per square foot x 100%	

Parcel SY17-019C

8,673 square feet of street easement	\$16,045.00 (R)
Valued at \$1.85 per square foot x 100%	

Plus the depreciated value of street pavement	<u>\$31,932.00</u>
---	--------------------

TOTAL ABANDONMENTS AND SALE	<u>\$204,076.00</u>
------------------------------------	----------------------------

In exchange, USA Waste of Texas Landfills, Inc., will pay:

Cash	\$188,632.00
------	--------------

Plus USA Waste of Texas Landfills, Inc., will convey to the City:

Parcel AY17-241A

1,943 square feet of street easement	\$3,595.00 (R)
Valued at \$1.85 x 100% per square foot	

Parcel AY17-241B

2,045 square feet of street easement
Valued at \$1.85 x 100% per square foot

\$3,783.00 (R)

Parcel AY17-242

4,360 square feet of street easement
Valued at \$1.85 x 100% per square foot

\$8,066.00

TOTAL CASH AND CONVEYANCE

\$204,076.00

Therefore, it is recommended City Council approve an ordinance authorizing the abandonment and sale of Clara Road, from its northern terminus south ± 1448 feet, Unnamed Road South, from Clara Road west to its terminus, and Crawford Road, from the southern property line of Lot 7, Block 4 north ± 217 feet, in exchange for a cash consideration of \$188,632.00 and conveyance to the City of rights-of-way for and construction of a cul-de-sac at the termini of Clara Road and Crawford Road, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185.

Carol Ellinger Haddock, P.E., Director
Houston Public Works

Contact Information:

Marjorie L. Cox
Assistant Director-Real Estate Services
Phone: (832) 395-3130

ATTACHMENTS:**Description**

Signed Coversheet
Aerial Map
Parcel Map
Council District Map

Type

Signed Cover sheet
Backup Material
Backup Material
Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:

District A

Item Creation Date: 6/25/2018

20BAM9709B/Abandonment and Sale/Clara Road/SY17-019

Agenda Item#:

Background:

SUBJECT: Abandonment and sale of Clara Road, from its northern terminus south ± 1448 feet, Unnamed Road South, from Clara Road west to its terminus, and Crawford Road, from the southern property line of Lot 7, Block 4 north ± 217 feet, in exchange for conveyance to the City of rights-of-way for and construction of a cul-de-sac at the termini of Clara Road and Crawford Road, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. **Parcels SY17-019A, SY17-019B, SY17-019C, AY17-241A, AY17-241B, and AY17-242**

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Parcel SY17-019B

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Valued at \$1.85 per square foot x 100%

Parcel SY17-019C

8,673 square feet of street easement \$16,045.00 (R)
Valued at \$1.85 per square foot x 100%

Plus the depreciated value of street pavement \$31,932.00

TOTAL ABANDONMENTS AND SALE **\$204,076.00**

In exchange, USA Waste of Texas Landfills, Inc., will pay:

Cash \$188,632.00

Plus USA Waste of Texas Landfills, Inc., will convey to the City:

Parcel AY17-241A

1,943 square feet of street easement \$3,595.00 (R)
Valued at \$1.85 x 100% per square foot

Parcel AY17-241B

2,045 square feet of street easement
Valued at \$1.85 x 100% per square foot

\$3,783.00 (R)

Parcel AY17-242

4,360 square feet of street easement
Valued at \$1.85 x 100% per square foot

\$8,066.00

TOTAL CASH AND CONVEYANCE

\$204,076.00

Therefore, it is recommended City Council approve an ordinance authorizing the abandonment and sale of Clara Road, from its northern terminus south ± 1448 feet, Unnamed Road South, from Clara Road west to its terminus, and Crawford Road, from the southern property line of Lot 7, Block 4 north ± 217 feet, in exchange for a cash consideration of \$188,632.00 and conveyance to the City of rights-of-way for and construction of a cul-de-sac at the termini of Clara Road and Crawford Road, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185.



Carol Ellinger Haddock, P.E., Director
Houston Public Works

Contact Information:

Marjorie L. Cox
Assistant Director-Real Estate Services
(832) 395-3130

ATTACHMENTS:**Description**

Aerial Map

Parcel Map

Council District Map

Type

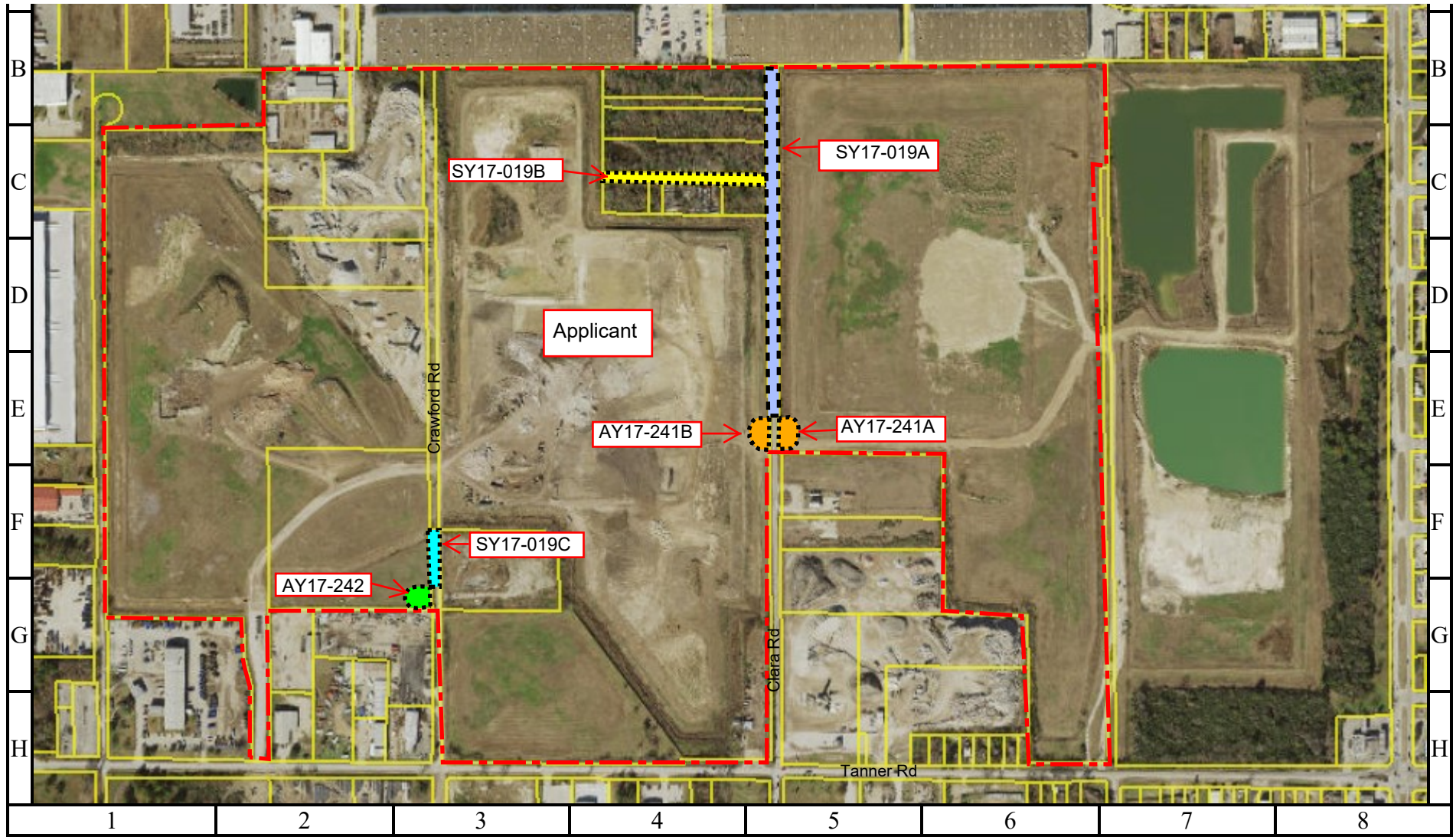
Backup Material

Backup Material

Backup Material

Aerial Map

SUBJECT: Abandonment and sale of Clara Road, from its northern terminus south ± 1448 feet, Unnamed Road South, from Clara Road west to its terminus, and Crawford Road, from the southern property line of Lot 7, Block 4 north ± 217 feet, in exchange for conveyance to the City of rights-of-way for and construction of a cul-da-sac at the termini of Clara Road and Crawford Road, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. Parcels SY17-019A, SY17-019B, SY17-019C, AY17-241A, AY17-241B, and AY17-242



1 inch = 200 feet

CITY OF HOUSTON

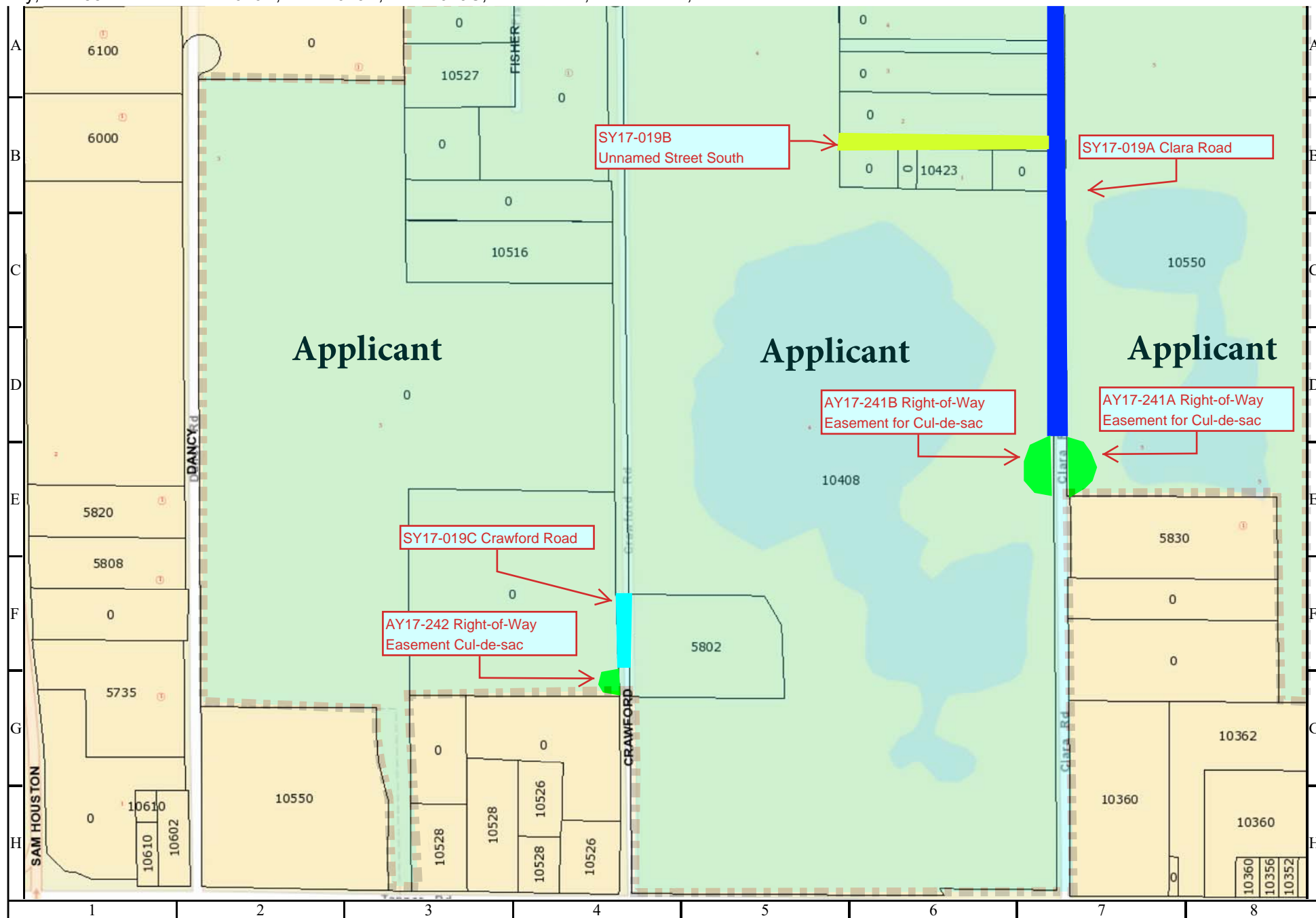
**Department of Public Works and Engineering
Geographic Information & Management System (GIMS)**

DISCLAIMER: THIS MAP REPRESENTS THE BEST INFORMATION AVAILABLE TO THE CITY.
THE CITY DOES NOT WARRANT ITS ACCURACY OR COMPLETENESS.
FIELD VERIFICATIONS SHOULD BE DONE AS NECESSARY.



Parcel Map

SUBJECT: Abandonment and sale of Clara Road, from its northern terminus south ± 1448 feet, Unnamed Road South, from Clara Road west to its terminus, and Crawford Road, from the southern property line of Lot 7, Block 4 north ± 217 feet, in exchange for conveyance to the City of rights-of-way for and construction of a cul-da-sac at the termini of Clara Road and Crawford Road, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. Parcels SY17-019A, SY17-019B, SY17-019C, AY17-241A, AY17-241B, and AY17-242



City of Houston Council District A Brenda Starding

Legend
2016 Council District A

0 1.25 2.5 5 miles

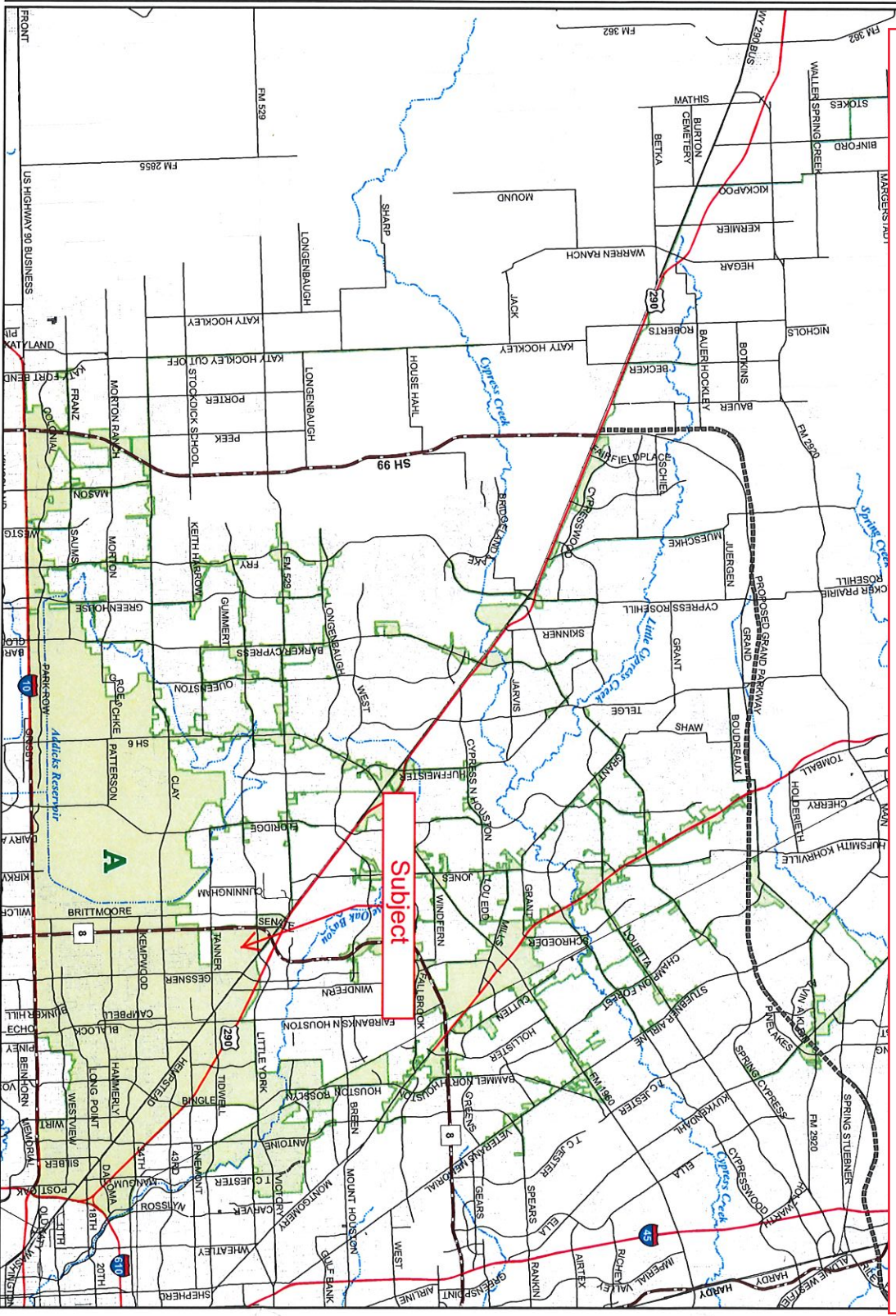


Source: CHGIS Database
Date: Jan 2016
Reference: P18630_a

This map is made available for reference purposes only and should not be substituted for a survey product. The City of Houston will not accept liability of any kind in conjunction with its use.



Subject: Abandonment and sale of Clara Road, from its northern terminus south ±1448 feet, Unnamed Road South, from Clara Road west to its terminus, and Crawford Road, from the southern property line of Lot 7, Block 4 north ±217 feet, in exchange for conveyance to the City of rights-of-way for and construction of a cul-de-sac at the termini of Clara Road and Crawford Road, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. **Parcels SY17-019A, SY17-019B, SY17-019C, AY17-241A, AY17-241B, and AY17-242**





CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District A

Item Creation Date: 6/25/2018

20BAM9709A MOTION Non-Acceptance/Unnamed Road
North/SY17-057

Agenda Item#: 9.

Summary:

RECOMMENDATION from Director Houston Public Works, reviewed and approved by the Joint Referral Committee, on request from Phillip Reid Matthews, II, Golder Associates, on behalf of USA Waste of Texas Landfills, Inc, (James A. Wilson, Vice President), declining the acceptance of, rejecting, and refusing the dedication of Unnamed Road North, from Clara Road west to its terminus, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185, Parcel SY17-057 - **DISTRICT A - STARDIG**

This item should only be considered after passage of Item 8 above

Background:

SUBJECT: Request for a motion declining the acceptance of, rejecting, and refusing the dedication of Unnamed Road North, from Clara Road west to its terminus, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. **Parcel SY17-057**

RECOMMENDATION: It is recommended City Council approve motion declining the acceptance of, rejecting, and refusing the dedication of Unnamed Road North, from Clara Road west to its terminus, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. **Parcel SY17-057**

SPECIFIC EXPLANATION: Phillip Reid Matthews, II, Golder Associates, 500 Century Plaza Drive, Suite 190. Houston, Texas, 77073, on behalf of USA Waste of Texas Landfills, Inc., 9821 Katy Freeway, Suite 700, Houston, Texas, 77024, (James A. Wilson, Vice President), requested the non-acceptance of Unnamed Road North, from Clara Road west to its terminus, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. USA Waste of Texas Landfills, Inc., will incorporate the street into its abutting property. Since the City never paved, installed public utilities, provided any type of maintenance, or foresees any future need for public access, the street can be considered excess to the City's needs and non-accepted as offered by the plat dedication. Since the street is to be non-accepted, no property interest exist that can be sold or conveyed. No money or other consideration will be exchanged between the City and the underlying-fee owner of the abutting property as value for any property interest. The Joint Referral Committee reviewed the request and determined the request could be processed as a non-acceptance.

Therefore, it is recommended City Council approve motion declining the acceptance of, rejecting, and refusing the dedication of Unnamed Road North, from Clara Road west to its terminus, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185.

Carol Ellinger Haddock, P.E., Director
Houston Public Works

Prior Council Action:

Contact Information:

Marjorie L. Cox
Assistant Director-Real Estate Services
(832) 395-3130

ATTACHMENTS:

Description

Signed Coversheet
Aerial Map
Council District Map

Type

Signed Cover sheet
Backup Material
Backup Material

**CITY OF HOUSTON - CITY COUNCIL**

Meeting Date:

District A

Item Creation Date: 6/25/2018

20BAM9709A/Non-Acceptance/Unnamed Road North/SY17-057

Agenda Item#:

Background:

SUBJECT: Request for a motion declining the acceptance of, rejecting, and refusing the dedication of Unnamed Road North, from Clara Road west to its terminus, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. **Parcel SY17-057**

RECOMMENDATION: It is recommended City Council approve motion declining the acceptance of, rejecting, and refusing the dedication of Unnamed Road North, from Clara Road west to its terminus, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. **Parcel SY17-057**

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Therefore, it is recommended City Council approve motion declining the acceptance of, rejecting, and refusing the dedication of Unnamed Road North, from Clara Road west to its terminus, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185.

A handwritten signature in cursive script, reading "Carol Ellinger Haddock".

Carol Ellinger Haddock, P.E., Director
Houston Public Works

Contact Information:

Marjorie L. Cox
Assistant Director-Real Estate Services
(832) 395-3130

ATTACHMENTS:**Description**Aerial MapCouncil District Map**Type**

Backup Material

Backup Material

Aerial Map

Subject: Non-acceptance of Unnamed Road North, from Clara Road west to its terminus, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. Parcel SY17-057



1 inch = 200 feet

CITY OF HOUSTON Department of Public Works and Engineering Geographic Information & Management System (GIMS)

DISCLAIMER: THIS MAP REPRESENTS THE BEST INFORMATION AVAILABLE TO THE CITY.
THE CITY DOES NOT WARRANT ITS ACCURACY OR COMPLETENESS.
FIELD VERIFICATIONS SHOULD BE DONE AS NECESSARY.



Subject: Non-acceptance of Unnamed Road North, from Clara Road west to its terminus, located within Clara Heights Addition and Independence Gardens Addition, out of the Washington County Railroad Company Survey, A-1185. Parcel SY17-057

City of Houston

Council District A

Brenda Stardig

Legend

 2016 Council District A



0 1.25 2.5 5 Miles

Source: COHGIS Database

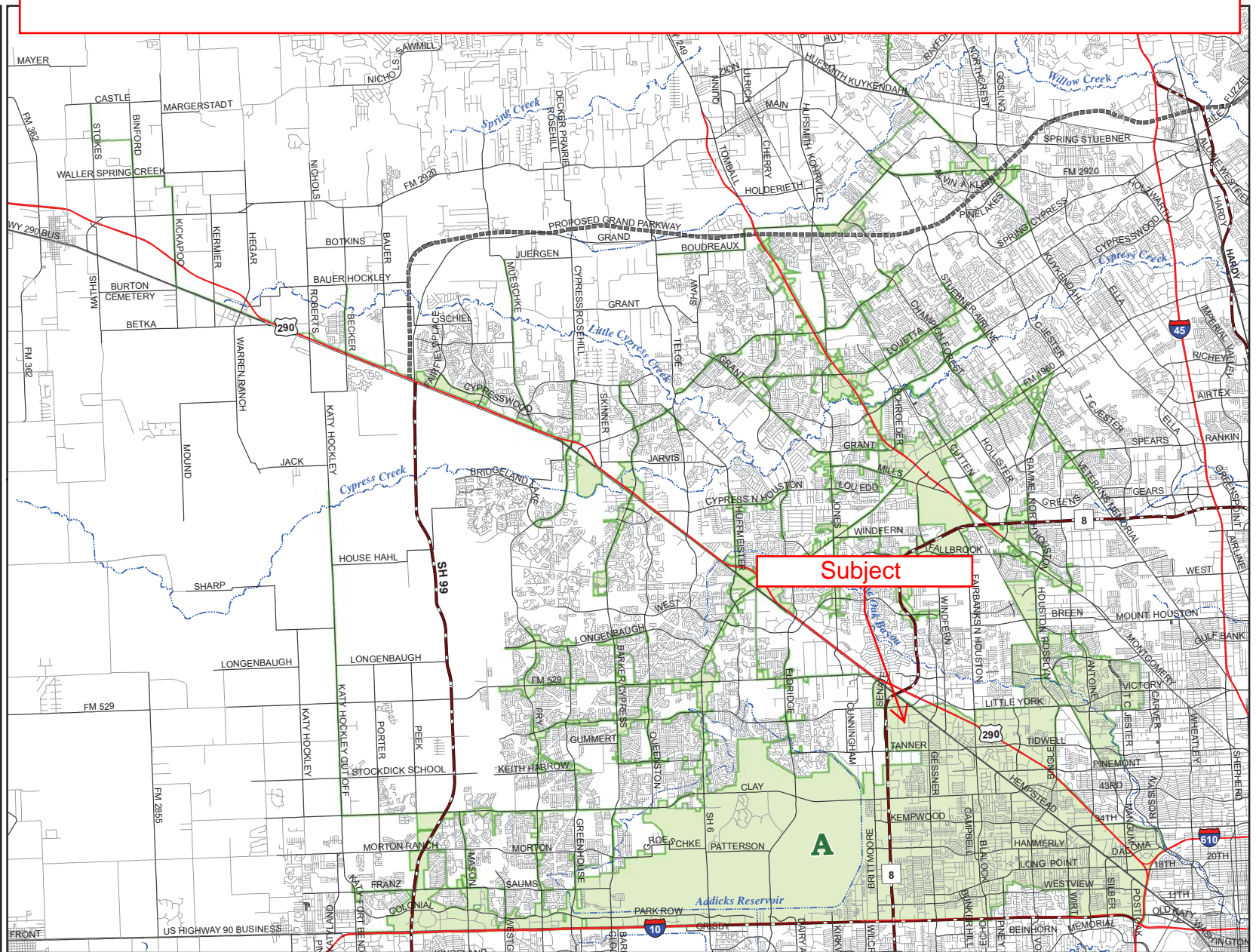
Date: Jan 2016

Reference: PJ18630_a

This map is made available for reference purposes only and should not be substituted for a survey product. The City of Houston will not accept liability of any kind in conjunction with its use.



**PLANNING &
DEVELOPMENT
DEPARTMENT**





CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date: 7/19/2018

L27685 - Calibration and Maintenance Services - MOTION

Agenda Item#: 10.

Summary:

FARRWEST ENVIRONMENTAL SUPPLY, INC for approval of spending authority to purchase Equipment Calibration and Maintenance Program Service through the Interlocal Agreement for Cooperative Purchasing with the Houston-Galveston Area Council for the Houston Fire Department

Background:

S60-L27685 - Approve spending authority in the amount not to exceed \$87,216.21 to purchase equipment calibration and maintenance program service through the Houston-Galveston Area Council (H-GAC) with FarrWest Environmental Supply, Inc. for the Houston Fire Department.

Specific Explanation:

The Chief of the Houston Fire Department and the Chief Procurement Officer recommend that City Council approve the purchase of equipment calibration and maintenance program services through the Interlocal Agreement for Cooperative Purchasing with the Houston-Galveston Area Council (H-GAC) in the amount not to exceed **\$87,216.21** for Houston Fire Department. It is further requested that authorization be given to issue purchase orders, as needed for a **thirty-six month term** to H-GAC contractor, **FarrWest Environmental Supply, Inc.** H-GAC entered in a contract with FarrWest Environmental Supply, Inc. on November 1, 2017 through October 31, 2020 for an initial three year term with option to extend upon agreement.

The contractor shall be required to provide all equipment, labor, materials, tools, supervision, specialized equipment and transportation to perform equipment calibration and maintenance program services for the HFD hazmat and detection equipment; RAE Systems, Smiths Detection, Sensit and Rigaku Analytics. The primary services includes maintenance and calibrate of equipment, and training on-site at each individual location based on the specific requirements needed by HFD's Hazmat Team. Provides certified trainers for all detection equipment, supply on-site monitoring support, extra equipment, and training for special events, public venues or hazmat-related emergencies. Also, provides 24/7 on-site support for any equipment issues with a one-hour response and loaner equipment for each type of device used by HFD Hazmat.

M/WBE Subcontracting:

Zero-percentage goal document approved by the Office of Business Opportunity.

Hire Houston First:

This procurement is exempt from the City's Hire Houston First Ordinance. Bids were not solicited because the department is utilizing an Interlocal Agreement for this purchase.

Fiscal Note:

Funding for this item is included in the FY 2019 Adopted Budget. Therefore, no Fiscal Note is required as stated in the Financial Policies.

Jerry Adams, Chief Procurement Officer
Finance/Strategic Procurement Division

Department Approval Authority

Estimated Spending Authority			
DEPARTMENT	FY2019	OUT YEARS	TOTAL
Houston Fire Department	\$29,072.07	\$58,114.14	\$87,216.21

Prior Council Action:**Amount of Funding:**

\$87,216.21 – General Funds (1000)

Contact Information:

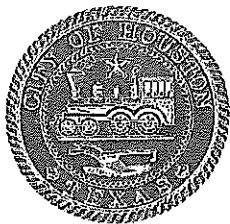
Richard Morris 832.393.8736
Raquel S. Rosa 832.393.8798
Lisa Alexis 832.393.6755

ATTACHMENTS:**Description**

Coversheet L27685 signed by CPO

Type

Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date: 7/19/2018

L27685 - Calibration and Maintenance Services - MOTION

Agenda Item#: 14.

Summary:

Background:

S60-L27685 - Approve spending authority in the amount not to exceed \$87,216.21 to purchase equipment calibration and maintenance program service through the Houston-Galveston Area Council (H-GAC) with FarrWest Environmental Supply, Inc. for the Houston Fire Department.

Specific Explanation:

The Chief of the Houston Fire Department and the Chief Procurement Officer recommend that City Council approve the purchase of equipment calibration and maintenance program services through the Interlocal Agreement for Cooperative Purchasing with the Houston-Galveston Area Council (H-GAC) in the amount not to exceed \$87,216.21 for Houston Fire Department. It is further requested that authorization be given to issue purchase orders, as needed for a **thirty-six month term** to H-GAC contractor, **FarrWest Environmental Supply, Inc.** H-GAC entered in a contract with FarrWest Environmental Supply, Inc. on November 1, 2017 through October 31, 2020 for an initial three year term with option to extend upon agreement.

The contractor shall be required to provide all equipment, labor, materials, tools, supervision, specialized equipment and transportation to perform equipment calibration and maintenance program services for the HFD hazmat and detection equipment; RAE Systems, Smiths Detection, Sensit and Rigaku Analytics. The primary services includes maintenance and calibrate of equipment, and training on-site at each individual location based on the specific requirements needed by HFD's Hazmat Team. Provides certified trainers for all detection equipment, supply on-site monitoring support, extra equipment, and training for special events, public venues or hazmat-related emergencies. Also, provides 24/7 on-site support for any equipment issues with a one-hour response and loaner equipment for each type of device used by HFD Hazmat.

M/WBE Subcontracting:

Zero-percentage goal document approved by the Office of Business Opportunity.

Hire Houston First:

This procurement is exempt from the City's Hire Houston First Ordinance. Bids were not solicited because the department is utilizing an Interlocal Agreement for this purchase.

Fiscal Note:

Funding for this item is included in the FY 2019 Adopted Budget. Therefore, no Fiscal Note is required as stated in the Financial Policies.


Jerry Adams, Chief Procurement Officer
Finance/Strategic Procurement Division

Department Approval Authority

Estimated Spending Authority			
DEPARTMENT	FY2019	OUT YEARS	TOTAL
Houston Fire Department	\$29,072.07	\$58,114.14	\$87,216.21

Prior Council Action:

Amount of Funding:

\$87,216.21 – General Funds (1000)

Strategic Procurement Division

8/16/2018

Contact Information:

Richard Morris	832.393.8736
Raquel S. Rosa	832.393.8798
Lisa Alexis	832.393.6755

ATTACHMENTS:**Description**OBO DocumentH-GAC QuoteQuotation-Multiyear AgreementFunding Document (Attachment A)Form BForm B (Fair Campaign Ordinance)Affidavit of OwnershipTax Statement**Type**

Backup Material

Backup Material

Backup Material

Financial Information

Backup Material

Backup Material

Backup Material

Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date:

S25957 - Supply of Liquid Polymer Flocculent Chemicals - MOTION

Agenda Item#: 11.

Summary:

POLYDYNE, INC for Supply of Liquid Polymer Flocculent Chemicals (Drinking Water Operations) for Houston Public Works - 60 Months - \$27,250,000.00 - Enterprise Fund

Background:

Formal Bids Received August 03, 2017 for S25957 – Approve an award to Polydyne, Inc. in the amount not to exceed \$27,250,000.00 for the supply of liquid polymer flocculent chemicals (Drinking Water Operations) for Houston Public Works.

Specific Explanation:

The Director of Houston Public Works and the Chief Procurement Officer recommend that City Council approve an award to **Polydyne, Inc.** on its best value bid in the amount not to exceed **\$27,250,000.00** for the supply of liquid polymer flocculent chemicals to the City of Houston Drinking Water Treatment Plants for Houston Public Works. It is further requested that authorization be given to issue purchase orders, as needed, **for a 60-month period** upon approval of City Council. Liquid polymer flocculent chemicals are imperative to the potable drinking water treatment process as promulgated by State and Federal mandates and standards to preserve and protect the public's health and safety.

This project was advertised in accordance with the requirements of the State of Texas bid laws. Forty-one bidders downloaded the solicitation document from SPD's e-bidding website and three bids were received. The bids were evaluated based upon the following criteria:

- Polymer Test Evaluation
- Services and Technical Expertise
- Polymer Price
- MWBE Subcontracting Capacity

Polydyne, Inc. received the highest overall score for the supply of liquid polymer flocculent chemicals.

This award consists of liquid polymer flocculent chemicals utilized on a daily basis by the Department's Drinking Water Operations Branch (DWO) to aid in the extensive removal of toxic organic compounds and turbidity during the potable drinking water treatment process as promulgated by Federal and State regulations to preserve and protect the health and safety of the citizens of Houston. The effectiveness of Polydyne, Inc.'s proprietary/patented products will allow DWO to utilize "less" polymer during treatment,

resulting in reduced chemical expenditures and reduced overall treatment facility operating costs. **This best value award is estimated to save the City approximately \$360,000.00 for the term of the contract.**

This recommendation is made pursuant to Chapter 252, Section 252.022 (a) (2) "a procurement necessary to preserve or protect the public health and safety of the municipality's residents" of the Texas Government Code for exempted procurements.

M/WBE Subcontracting:

This best value bid was issued as a goal oriented contract with a 11% goal for M/WBE participation. Polydyne, Inc. has designated the below-named company as its certified M/WBE subcontractor.

<u>Name</u>	<u>Type of Work</u>	<u>Amount</u>
Trinity Freight Services, LLC	Chemical Delivery	\$2,997,500.00

This award will be monitored by the Office of Business Opportunity.

Hire Houston First:

The proposed contract requires compliance with the City's "Hire Houston First" (HHF) ordinance that promotes economic opportunity for Houston businesses and supports job creation. In this case Polydyne, Inc. does not meet the requirements for HHF designation; no HHF firms were within three percent.

Fiscal Note:

Funding for this item is included in the FY 2019 Adopted Budget. Therefore, no Fiscal Note is required as stated in the Financial Policies.

Jerry Adams, Chief Procurement Officer
Finance/Strategic Procurement Division

Department Approval Authority

Estimated Spending Authority			
DEPARTMENT	FY2019	OUT YEARS	TOTAL
Houston Public Works	\$4,923,280.00	\$22,326,720.00	\$27,250,000.00

Amount of Funding:

\$27,250,000.00

Water & Sewer System Operating Fund
Fund No.: 8300

Contact Information:

NAME:	DEPARTMENT/DIVISION	PHONE
John Petrie, Assistant Director	PWE	(832) 395-3640
Martin King, Division Manager	FIN/SPD	(832) 393-8705
Yesenia Chuca, Sr. Staff Analyst	FIN/SPD	(832) 393-8727

ATTACHMENTS:

Description	Type
Revised Cover sheet	Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date:

S25957 - Supply of Liquid Polymer Flocculent Chemicals - MOTION

Agenda Item#: 14.

Summary:

Background:

Formal Bids Received August 03, 2017 for S25957 – Approve an award to Polydyne, Inc. in the amount not to exceed \$27,250,000.00 for the supply of liquid polymer flocculent chemicals (Drinking Water Operations) for Houston Public Works.

Specific Explanation:

The Director of Houston Public Works and the Chief Procurement Officer recommend that City Council approve an award to **Polydyne, Inc.** on its best value bid in the amount not to exceed **\$27,250,000.00** for the supply of liquid polymer flocculent chemicals to the City of Houston Drinking Water Treatment Plants for Houston Public Works. It is further requested that authorization be given to issue purchase orders, as needed, for a **60-month period** upon approval of City Council. Liquid polymer flocculent chemicals are imperative to the potable drinking water treatment process as promulgated by State and Federal mandates and standards to preserve and protect the public's health and safety.

This project was advertised in accordance with the requirements of the State of Texas bid laws. Forty-one bidders downloaded the solicitation document from SPD's e-bidding website and three bids were received. The bids were evaluated based upon the following criteria:

- Polymer Test Evaluation
- Services and Technical Expertise
- Polymer Price
- MWBE Subcontracting Capacity

Polydyne, Inc. received the highest overall score for the supply of liquid polymer flocculent chemicals.

This award consists of liquid polymer flocculent chemicals utilized on a daily basis by the Department's Drinking Water Operations (DWO) to aid in the extensive removal of organic compounds and turbidity during the potable drinking water treatment process as promulgated by Federal and State regulations to preserve and protect the health and safety of the citizens of Houston. The effectiveness of Polydyne, Inc.'s proprietary/patented products will allow DWO to utilize "less" polymer during treatment, resulting in reduced chemical expenditures and reduced overall treatment facility operating costs. **This best value award is estimated to save the City approximately \$360,000.00 for the term of the contract.**

This recommendation is made pursuant to Chapter 252, Section 252.022 (a) (2) "a procurement necessary to preserve or protect the public health and safety of the municipality's residents" of the Texas Government Code for exempted procurements.

M/WBE Subcontracting:

This best value bid was issued as a goal oriented contract with a 11% goal for M/WBE participation. Polydyne, Inc. has designated the below-named company as its certified M/WBE subcontractor.

<u>Name</u>	<u>Type of Work</u>	<u>Amount</u>
Trinity Freight Services, LLC	Chemical Delivery	\$2,997,500.00

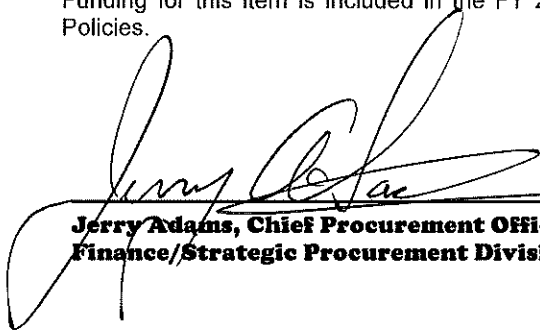
This award will be monitored by the Office of Business Opportunity.

Hire Houston First:

The proposed contract requires compliance with the City's "Hire Houston First" (HHF) ordinance that promotes economic opportunity for Houston businesses and supports job creation. In this case Polydyne, Inc. does not meet the requirements for HHF designation; no HHF firms were within three percent.

Fiscal Note:

Funding for this item is included in the FY 2019 Adopted Budget. Therefore, no Fiscal Note is required as stated in the Financial Policies.



**Jerry Adams, Chief Procurement Officer
Finance/Strategic Procurement Division**

Department Approval Authority

Estimated Spending Authority			
DEPARTMENT	FY2019	OUT YEARS	TOTAL
Houston Public Works	\$4,923,280.00	\$22,326,720.00	\$27,250,000.00

Amount of Funding:

\$27,250,000.00

Water & Sewer System Operating Fund

Fund No.: 8300

Contact Information:

NAME:	DEPARTMENT/DIVISION	PHONE
John Petrie, Assistant Director	PWE	(832) 395-3640
Martin King, Division Manager	FIN/SPD	(832) 393-8705
Yessenia Chuca, Sr. Staff Analyst	FIN/SPD	(832) 393-8727

ATTACHMENTS:**Description**

cover sheet

Form B - Campaign Finance Ordinance

Tax Report

Affidavit of Ownership

Funding

Award Recommendation from HPW

Funding Verification

Form A - Campaign Finance Ordinance

Letter of Intent-MWBE

Type

Signed Cover sheet

Backup Material

Backup Material

Backup Material

Financial Information

Backup Material

Financial Information

Backup Material

Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date: 5/30/2018

E26592-H Utility Carts

Agenda Item#: 12.

Summary:

DEERE AND COMPANY for Purchase of Nineteen Utility Carts through the Interlocal Agreement for Cooperative Purchasing with the Houston- Galveston Area Council for Houston Public Works \$297,562.47 - Enterprise Fund

Background:

S79-E26592-H – Purchase of nineteen (19) Utility Carts through the Interlocal Agreement for Cooperative Purchasing with the Houston-Galveston Area Council (H-GAC) in the total amount of \$297,562.47 for the Houston Public Works Department.

Specific Explanation:

The Director of Fleet Management Department and the Chief Procurement Officer recommend that City Council approve the purchase of nineteen (19) utility carts through the Interlocal Agreement for Cooperative Purchasing with the Houston-Galveston Area Council (H-GAC) in the total amount of **\$297,562.47** for the Houston Public Works Department and that authorization be given to issue a purchase order to the H-GAC contract vendor **Deere and Company**. The department's personnel will utilize these utility carts to transport operators and equipment around to the work areas. Funding for these utility carts is included in the adopted FY 17/18 Equipment Acquisition Plan.

These utility carts will come with a one year warranty. These new vehicles will replace existing vehicles that have reached their useful life expectancy and will be sent to auction for disposition.

MWBE Subcontracting:

Zero-percent goal document approved by the Office of Business Opportunity.

Hire Houston First:

This procurement is exempt from the City's Hire Houston First Ordinance. Bids were not solicited because the department is utilizing an Interlocal or Cooperative Purchasing agreement for this purchase.

Fiscal Note:

Funding for this item is included in the FY19 Adopted Budget. Therefore, no Fiscal Note is required as stated in the Financial Policies.

Jerry Adams, Chief Procurement Officer
Finance/Strategic Procurement Division

Department Approval Authority

Amount of Funding:

\$297,562.47 – Combined Utility System General (8305)

Contact Information:

Joshua Emo	SPD	832-393-8740
Lena Farris	SPD	832-393-8729
Marchelle Cain	FMD	832-393-6910

ATTACHMENTS:

Description

Type

Signed Cover sheet

Signed Cover sheet

E26592-H MWBE Waiver HPW_Utility_Vehicles

Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date: 5/30/2018

E26592-H Utility Carts

Agenda Item#: 18.

Summary:

Deere and Company for Purchase of Nineteen Utility Carts through the Interlocal Agreement for Cooperative Purchasing with the Houston-Galveston Area Council for Houston Public Works - \$297,562.47 - Enterprise Fund

Background:

S79-E26592-H – Purchase of nineteen (19) Utility Carts through the Interlocal Agreement for Cooperative Purchasing with the Houston-Galveston Area Council (H-GAC) in the total amount of \$297,562.47 for the Houston Public Works Department.

Specific Explanation:

The Director of Fleet Management Department and the Chief Procurement Officer recommend that City Council approve the purchase of nineteen (19) utility carts through the Interlocal Agreement for Cooperative Purchasing with the Houston-Galveston Area Council (H-GAC) in the total amount of **\$297,562.47** for the Houston Public Works Department and that authorization be given to issue a purchase order to the H-GAC contract vendor **Deere and Company**. The department's personnel will utilize these utility carts to transport operators and equipment around to the work areas. Funding for these utility carts is included in the adopted FY 17/18 Equipment Acquisition Plan.

These utility carts will come with a one year warranty. These new vehicles will replace existing vehicles that have reached their useful life expectancy and will be sent to auction for disposition.

MWBE Subcontracting:

Zero-percent goal document approved by the Office of Business Opportunity.

Hire Houston First:

This procurement is exempt from the City's Hire Houston First Ordinance. Bids were not solicited because the department is utilizing an Interlocal or Cooperative Purchasing agreement for this purchase.

Fiscal Note:

Funding for this item is included in the FY19 Adopted Budget. Therefore, no Fiscal Note is required as stated in the Financial Policies.


Jerry Adams, Chief Procurement Officer
Finance/Strategic Procurement Division

Department Approval Authority

Amount of Funding:

\$297,562.47 – Combined Utility System General (8305)

Contact Information:

Joshua Emo	SPD	832-393-8740
Lena Farris	SPD	832-393-8729
Marchelle Cain	FMD	832-393-6910

ATTACHMENTS:

Description

RCA E26592-H
E26592-H MWBE Waiver HPW Utility Vehicles
E26592-H Funding Form A
E26592 Fair Campaign Ordinance
E26592 Form B

Type

Signed Cover sheet
Backup Material
Backup Material
Backup Material
Backup Material

E26592 Delinquent Tax Report
E26592-H Affidavit of Ownership
E26592 RCA Bid Tab
PR SAP Funding Verification
HPW Sign-off

Backup Material
Signed Cover sheet
Backup Material
Financial Information
Backup Material



CITY OF HOUSTON
OFFICE
BUSINESS OPPORTUNITY

**Goal Modification
Request Form**

1. Date: 05/08/18 2. Requesting Department: HPW/WWO/DWO 3. Solicitation Number: New Contracts

4. Solicitation Name: UTILITY VEHICLE ACQS (WWO/DWO) 5. Estimated Dollar Amount: \$ 297,562.47

6. Description of Solicitation (attach specifications/supporting documents):

Acquisition of Utility Vehicles to serve Drinking Water Treatment Plants (2) and Wastewater Treatment Plants (17) to transport tools, repair parts, equipment, and personnel. (Because acquisition covers 2 Operations (DWO & WWO), 2 PRs were created and awarded to the same vendor. Therefore, seeking combined Goal Waiver. (See PR 10227137 & PR 10227138).

PLEASE INDICATE WHETHER A PREVIOUS CONTRACT EXISTED FOR THIS SOLICITATION.

A. Previous contract (if any): Yes ☐ No ☒ B. Previous contract number: _____

C. Goal on last contract _____ D. Was goal met? Yes ☐ No ☐

E. If goal was not met, what percentage did the vendor achieve? _____%

F. Why wasn't goal achieved?

SELECT ONE TYPE OF GOAL MODIFICATION REQUEST FROM THE FOUR OPTIONS BELOW.

1. WAIVER

A. I am requesting a waiver of the MWSBE Goal: Yes ☒ No ☐

B. Reason for waiver: (Check one)

- ☐ A public or administrative emergency exists which requires the goods or services to be provided with unusual immediacy
- ☐ If goods and services are specialized, technical, or unique nature as to require the City department to select its contractor without application of MWSBE provisions (such as contracts for expert witnesses, certain financial advisors or technical consultants)
- ☒ MWSBE provisions impose an unwarranted economic burden or risk on the City or unduly delay acquisition of the goods or services, or is not in the best interest of the City; or
- ☐ Level of MWSBE availability would produce minimal MWSBE participation.
- ☐ Other:

C. Detailed explanation for Waiver Reason:

This is an acquisition only; no services required; thus no opportunity for MWSBE participation. Vendor to provide all aspects of purchase including freight therefore using MWSBE will add an undo burden/cost to the City of Houston.

2. COOPERATIVE OR INTER-LOCAL AGREEMENT

A. Is this a Cooperative/Inter-Local agreement? Yes ☒ No ☐

B. If yes, please specify the name of the agreement: TX HGAC GR01-18 (PG 64 CG 70)

C. Did the Department explore opportunities for using certified firms? Yes ☐ No ☐

D. Please explain how the department explored opportunities for using certified firms:

E. Please explain why the Department did not explore opportunities for using certified firms:

Vendor to provide all aspects of purchase including freight therefore sourcing MWSBE will add an undo burden/cost to the City of Houston.



CITY OF HOUSTON
OFFICE
OF
BUSINESS OPPORTUNITY

Goal Modification
Request Form

3. REDUCED GOAL (to be completed by the department prior to advertisement)

A. I am requesting a MWSBE contract-specific goal below the following city wide goals:
Construction (34%) Professional Services (24%) Purchasing (11%)

Yes ☐ No ☐ If yes, please complete a Contract-Specific Goal Request Form and submit with this form.

4. GOAL REVISION AFTER ADVERTISEMENT

A. I am requesting a revision of the MWSBE Goal that has already been advertised: Yes ☐ No ☐

B. Original goal: _____ C. Proposed new goal: _____ D. Advertisement date: _____

E. Will the project be re-advertised? Yes ☐ No ☐ F. Estimated dollar amount: \$ _____

G. Detailed reason for request: _____

Concurrence:

Nolan Boone
Requesting Department Initiator Date

[Signature] 5-16-12
Department Director or Designee Date

FOR OBO OFFICE USE ONLY:

APPROVED:

<u>[Signature]</u>	<u>5/22/18</u>	<u>Drop Ship</u>	<u>Val-927</u>
OBO Assistant Director or Designee	Date	OBO Reason	Tracking #

DENIED:

OBO Assistant Director or Designee	Date	OBO Reason	Tracking #



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date:

S25861 - Apparel and Uniforms - MOTION

Agenda Item#: 13.

Summary:

SERVICEWEAR APPAREL, INC (National IPA Contractor) - \$5,375,483.17, **TRIPLE D UNIFORM RENTAL, INC** - \$2,744,752.35 and **CINTAS CORPORATION** - \$123,150.00 for Apparel and Uniforms for Various Departments - 3 Years with two one-year options - General, Enterprise and Other Funds

Background:

Formal Bids Received October 26, 2017 for S65-S25861 – Approve various awards, as shown below, in the amount not to exceed \$8,243,385.52 for apparel and uniforms for various departments.

Specific Explanation:

The Chief Procurement Officer recommends that City Council approve various awards, as shown below, in the amount not to exceed **\$8,243,385.52** for the purchase of apparel and uniforms for various departments. It is further requested that authorization be given to, make purchases, as needed, for a **36-month period with two one-year options**. These awards consist of line items and manufacturer price lists for apparel and uniforms that include, but are not limited to, long and short sleeve shirts, coveralls, tees, work and dress pants, jeans, jackets, blazers, caps, jeans, polos, silk screening, embroidery, and personalization services. The items will be utilized citywide by personnel in the Houston Airport System and the Houston Health, General Services, Houston Police, Parks & Recreation, Solid Waste Management, Administration & Regulatory Affairs, Human Resources, Houston Public Works, and Fleet Management Departments.

This recommendation also include participation in the National Intergovernmental Purchasing Alliance (National IPA) Cooperative contract awarded to ServiceWear Apparel, Inc.

These are price list and line item awards. Relative to the price list, the best discount which determines the low bid for a verified price list is the best bid received for quantities of high-use items selected as sample pricing items, based on the current needs of the Departments. The bid total for sample pricing items does not represent the total amount to be purchased; rather, this recommendation is for the total estimated expenditures projected over the awarded term and based on the low bid submitted for the representative samples.

This project was advertised in accordance with the requirements of the State of Texas bid laws. Ninety-four (94) prospective bidders downloaded the solicitation document from SPD's e-bidding website and eight (8) bids were received as outlined below:

ServiceWear Apparel, Inc. (National IPA Contractor): Award on its best value of cooperative pricing versus competitive bids received for Group No. 1 (Red Kap Price List), Group No. 3 (Horace Small Price List), Group No. 9 (Bulwark Price List), Group No. 15 (Lee Price List), Group No. 19 (Personalization for Group No. 1), Group No. 20 (Embroidery for Group Nos. 1, 3, 9, and 15), and Group No. 22 (Silk Screening for Group No. 1) in the amount not to exceed **\$5,375,483.17**.

Triple D Uniform Rental, Inc.: Award on its low bid meeting specifications for Group No. 5 (Landau Price List), Group No. 6 (Edwards Price List), Group No. 8 (Dickies Price List), Group No. 10 (Cintas Price List), Group No. 11 (Reflective Price List), Group No. 12 (Port Authority Price List), Group No. 13 (Otto Price List), Group No. 19 (Personalization for Group No. 6), Group No. 20 (Embroidery for Group Nos. 5, 6, 8, 12, and 13), and Group No. 22 (Silk Screening for Group Nos. 8 and 11) in the amount not to exceed **\$2,744,752.35**.

Sample Pricing & Line Item Total

<u>Company</u>		
1. Rosen & Rosen Industries, Inc.	\$ 65.04	(Partial Bid/Did Not Meet Specifications)

2.	United Embroidery, LLC	\$ 294,492.77	(Partial Bid/Higher Unit Cost/Did Not Meet Specifications)
3.	Cintas Corporation	\$ 500,415.16	(Partial Bid/Higher Unit Cost/Did Not Meet Specifications)
4.	GA Advertising	\$ 523,084.72	(Partial Bid/Higher Unit Cost/Did Not Meet Specifications)
5.	Triple D Uniform Rental, Inc.	\$ 614,378.72	
6.	Houston Canvas & Awning Co. dba Houston Uniforms & Apparel Co.	\$ 625,548.83	
7.	All Printing & Office Supply, Inc.	\$ 677,743.58	
8.	Galls, LLC	\$ 1,144,972.55	

Cintas Corporation: Award on its low overall bid for Group No. 17 (Patch for Caps and Hats) in the amount not to exceed **\$123,150.00**.

<u>Company</u>	<u>Total Amount</u>	
1. GA Advertising	\$ 22,500.00	(Partial Bid)
2. United Embroidery, LLC	\$ 89,284.95	(Partial Bid/Higher Unit Price)
3. General Traffic Equipment Corp.	\$ 113,875.00	(Partial Bid/Higher Unit Price)
4. Cintas Corporation	\$ 123,150.00	
5. Triple D Uniform Rental, Inc.	\$ 183,720.00	
6. All Printing & Office Supply	\$ 196,725.00	
7. Galls, LLC	\$ 244,930.00	

Group Nos. 4, 7, 14, and 16 are not being recommended for award and will be re-bid at a later date.

The City is eligible to participate in the National IPA Cooperative as set out in Section 791.011 of the Government Code and such purchases satisfy State bid laws as set out in Section 791.025 of the Government Code.

Chapter 271, Subchapter F of the Texas Local Government Code allows local governments to participate in cooperative purchasing programs with another local government or local cooperative organization to purchase goods or services utilizing contracts currently existing between another local government and its vendors. This process satisfies the states competitive bid law requirements.

Hire Houston First:

The proposed award requires compliance with the City's "Hire Houston First" (HHF) ordinance that promotes economic opportunity for Houston businesses and supports job creation. In this case, **ServiceWear Apparel, Inc.** and **Cintas Corporation** do not meet the requirements for HHF designation; no HHF firms were within three percent. **Triple D Uniform Rental, Inc.** is a designated HHF company, but they were the successful awardee without application of the HHF preference.

M/WBE Participation:

This bid was issued with an 11% goal for M/WBE participation.

Triple D Uniform Rental, Inc. has designated the below-named company as its certified M/WBE subcontractor:

<u>Company</u>	<u>Type of Work</u>	<u>Dollar Amount</u>
Graphic Results	Screen Printing of Shirts & Jackets	\$301,922.76

Cintas Corporation has designated the below-named companies as their certified M/WBE subcontractors:

<u>Company</u>	<u>Type of Work</u>	<u>Percentage</u>	<u>Dollar Amount</u>
G Wolfe Enterprises, LLC, DBA	Apply Emblems to Hats	5.5%	\$6,773.25
JMS Apparel and Promotions			
DJ's Screen Printing	Apply Emblems to Hats	5.5%	\$6,773.25

ServiceWear Apparel, Inc. submitted a Good Faith Effort to the Office of Business Opportunity, and a 0.35% M/WBE participation goal was approved for silk screening services (Group No. 22). To the extent possible, ServiceWear Apparel, Inc. will subcontract 3.105% M/WBE participation to the below-named company as its certified M/WBE

Apparent, that this subcontract serves as M/V-E participation to the below named company as its selected M/V-E subcontractor:

Company	Type of Work	Percentage	Dollar Amount
G Wolfe Enterprises, LLC, DBA JMS Apparel and Promotions	Silk Screening	3.105%	\$18,787.60

The Office of Business Opportunity will monitor the awards.

Fiscal Note:

Funding for this item is included in the FY19 Adopted Budget. Therefore, no Fiscal Note is required as stated in the Financial Policies.

Jerry Adams, Chief Procurement Officer
Finance/Strategic Procurement Division

Departmental Approval Authority Signature

Estimated Spending Authority

Department	FY19	Out Years	Total
Administration & Regulatory Affairs	\$ 29,534.56	\$ 118,138.24	\$ 147,672.80
Fleet Management	\$ 87,524.28	\$ 350,097.12	\$ 437,621.40
General Services	\$ 49,969.61	\$ 199,878.56	\$ 249,848.17
Houston Airport System	\$ 302,600.00	\$1,210,400.00	\$1,513,000.00
Houston Health	\$ 74,400.00	\$ 314,557.40	\$ 388,957.40
Houston Police	\$ 40,000.00	\$ 397,014.00	\$ 437,014.00
Houston Public Works	\$ 614,539.86	\$3,764,348.89	\$4,378,888.75
Parks & Recreation	\$ 18,287.00	\$ 470,823.00	\$ 489,110.00
Solid Waste Management	\$ 80,508.00	\$ 120,765.00	\$ 201,273.00
Total	\$ 1,297,363.31	\$6,946,022.21	\$8,243,385.52

Amount of Funding:

\$ 1,138,333.71	General Fund (1000)
\$ 111,068.65	Project Cost Recovery Fund (1001)
\$ 437,621.40	Fleet Management Fund (1005)
\$ 278,457.40	Essential Public Health Services Fund (2010)
\$ 80,543.00	Park Special Revenue Fund (2100)
\$ 70,303.00	Parks Golf Special Fund (2104)
\$ 166,565.46	M.R.R. Fund (2105)
\$ 45,488.10	Building Inspection Fund (2301)
\$ 245,360.45	Storm Water Fund (2302)
\$ 117,936.77	Dedicated Drainage & Street Renewal Fund - Ad Valorem (2310)
\$ 239,447.36	Dedicated Drainage & Street Renewal Fund - Metro (2310)
\$ 147,672.80	BARC Special Revenue Fund (2427)
\$ 32,000.00	Federal Government Fund (5000)
\$ 1,513,000.00	HAS-Revenue Fund (8001)
\$ 3,619,587.42	Water & Sewer System Operating Fund (8300)
\$ 8,243,385.52	Total

Contact Information:

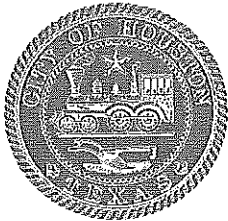
Desiree Heath 832-393-8742
Catherine Phillips 832-393-8742

Carietnya Guillory
John Petrie

832-393-8713
832-395-3754

ATTACHMENTS:

Description	Type
revised Cover Sheet	Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date:

S25861 - Apparel and Uniforms - MOTION

Agenda Item#: 13.

Summary:

SERVICEWEAR APPAREL, INC (National IPA Contractor) - \$5,375,483.17, **TRIPLE D UNIFORM RENTAL, INC** - \$2,744,752.35 and **CINTAS CORPORATION** - \$123,150.00 for Apparel and Uniforms for Various Departments - 3 Years with two one-year options - General, Enterprise and Other Funds

Background:

Formal Bids Received October 26, 2017 for S65-S25861 – Approve various awards, as shown below, in the amount not to exceed \$8,243,385.52 for apparel and uniforms for various departments.

Specific Explanation:

The Chief Procurement Officer recommends that City Council approve various awards, as shown below, in the amount not to exceed **\$8,243,385.52** for the purchase of apparel and uniforms for various departments. It is further requested that authorization be given to, make purchases, as needed, for a **36-month period with two one-year options**. These awards consist of line items and manufacturer price lists for apparel and uniforms that include, but are not limited to, long and short sleeve shirts, coveralls, tees, work and dress pants, jeans, jackets, blazers, caps, jeans, polos, silk screening, embroidery, and personalization services. The items will be utilized citywide by personnel in the Houston Airport System and the Houston Health, General Services, Houston Police, Parks & Recreation, Solid Waste Management, Administration & Regulatory Affairs, Human Resources, Houston Public Works, and Fleet Management Departments. This recommendation also include participation in the National Intergovernmental Purchasing Alliance (National IPA) Cooperative contract awarded to ServiceWear Apparel, Inc.

These are price list and line item awards. Relative to the price list, the best discount which determines the low bid for a verified price list is the best bid received for quantities of high-use items selected as sample pricing items, based on the current needs of the Departments. The bid total for sample pricing items does not represent the total amount to be purchased; rather, this recommendation is for the total estimated expenditures projected over the awarded term and based on the low bid submitted for the representative samples.

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		<u>Sample Pricing & Line Item Total</u>	
1.	<u>Company</u> Rosen & Rosen Industries, Inc.	\$ 65.04	(Partial Bid/Did Not Meet Specifications)
2.	United Embroidery, LLC	\$ 294,492.77	(Partial Bid/Higher Unit Cost/Did Not Meet Specifications)
3.	Cintas Corporation	\$ 500,415.16	(Partial Bid/Higher Unit Cost/Did Not Meet Specifications)
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6.	Houston Canvas & Awning Co. dba Houston Uniforms & Apparel Co.	\$ 625,548.83
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8.	Galls, LLC	\$ 1,144,972.55

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<u>Company</u>	<u>Total Amount</u>	
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6. All Printing & Office Supply	\$ 196,725.00	
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Group Nos. 4, 7, 14, and 16 are not being recommended for award and will be re-bid at a later date.

The City is eligible to participate in the National IPA Cooperative as set out in Section 791.011 of the Government Code and such purchases satisfy State bid laws as set out in Section 791.025 of the Government Code.

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Hire Houston First:

The proposed award requires compliance with the City's "Hire Houston First" (HHF) ordinance that promotes economic opportunity for Houston businesses and supports job creation. In this case, **ServiceWear Apparel, Inc.** and **Cintas Corporation** do not meet the requirements for HHF designation; no HHF firms were within three percent. **Triple D Uniform Rental, Inc.** is a designated HHF company, but they were the successful awardee without application of the HHF preference.

M/WBE Participation:

This bid was issued with an 11% goal for M/WBE participation.

Triple D Uniform Rental, Inc. has designated the below-named company as its certified M/WBE subcontractor:

<u>Company</u>	<u>Type of Work</u>	<u>Dollar Amount</u>
Graphic Results	Screen Printing of Shirts & Jackets	\$301,922.76

Cintas Corporation has designated the below-named companies as their certified M/WBE subcontractors:

<u>Company</u>	<u>Type of Work</u>	<u>Percentage</u>	<u>Dollar Amount</u>
G Wolfe Enterprises, LLC, DBA JMS Apparel and Promotions	Apply Emblems to Hats	5.5%	\$6,773.25

DJ's Screen Printing	Apply Emblems to Hats	5.5%	\$6,773.25
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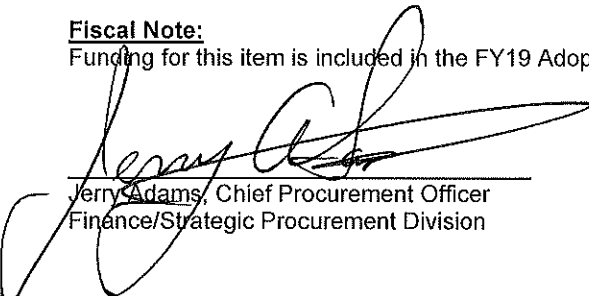
ServiceWear Apparel, Inc. submitted a Good Faith Effort to the Office of Business Opportunity, and a 0.35% MWBE participation goal was approved for silk screening services (Group No. 22). To the extent possible, ServiceWear Apparel, Inc. will subcontract 3.105% M/WBE participation to the below-named company as its certified M/WBE subcontractor:

<u>Company</u>	<u>Type of Work</u>	<u>Percentage</u>	<u>Dollar Amount</u>
G Wolfe Enterprises, LLC, DBA JMS Apparel and Promotions	Silk Screening	3.105%	\$18,787.60

The Office of Business Opportunity will monitor the awards.

Fiscal Note:

Funding for this item is included in the FY19 Adopted Budget. Therefore, no Fiscal Note is required as stated in the Financial Policies.


 Jerry Adams, Chief Procurement Officer
 Finance/Strategic Procurement Division

 Departmental Approval Authority Signature

Estimated Spending Authority

Department	FY19	Out Years	Total
Administration & Regulatory Affairs	\$ 29,534.56	\$ 118,138.24	\$ 147,672.80
Fleet Management	\$ 87,524.28	\$ 350,097.12	\$ 437,621.40
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Total	\$ 1,297,363.31	\$6,946,022.21	\$8,243,385.52

Amount of Funding:

\$ 1,138,333.71	General Fund (1000)
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\$ 239,447.36	Dedicated Drainage & Street Renewal Fund - Metro (2310)
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\$ 32,000.00	Federal Government Fund (5000)
\$ 1,513,000.00	HAS-Revenue Fund (8001)
\$ 3,619,587.42	Water & Sewer System Operating Fund (8300)
\$ 8,243,385.52	Total

Contact Information:

Desiree Heath	832-393-8742
Carlethya Guillory	832-393-8713
John Petrie	832-395-3754

ATTACHMENTS:

Description	Type
<u>MWBE Documents</u>	Backup Material
<u>Fair Campaign Ordinance ServiceWear</u>	Backup Material
<u>Fair Campaign Ordinance Triple D Uniform</u>	Backup Material
<u>Fair Campaign Ordinance Cintas</u>	Backup Material
<u>Form B</u>	Backup Material
<u>S25861 Bid Tabulation</u>	Backup Material
<u>Tax Report ServiceWear</u>	Backup Material
<u>Tax Report Triple D Uniform</u>	Backup Material
<u>Tax Report Cintas</u>	Backup Material
<u>Affidavit ServiceWear</u>	Backup Material
<u>Affidavit Triple D Uniform</u>	Backup Material
<u>Affidavit Cintas</u>	Backup Material
<u>Financial Documents</u>	Financial Information

<u>Coversheet signed by CPO S25861-Uniforms</u>	Signed Cover sheet
<u>FMD updated Financial Document</u>	Financial Information
<u>Updated Funding Information - ARA - BARC</u>	Financial Information
<u>HHD Fund Information</u>	Financial Information
<u>Revised Funding Information</u>	Signed Cover sheet
<u>HPD Funding Information</u>	Signed Cover sheet
<u>Funding Information for GSD</u>	Backup Material
<u>Revised Financial Documents</u>	Financial Information
<u>Budget vs. Actual HPW F-1001 2301 2302 2310 8300</u>	Financial Information
<u>Fund 2302 Funding Information</u>	Signed Cover sheet
<u>Attachment A Funding Spreadsheet Apparel Uniforms S25861</u>	Financial Information



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District K

Item Creation Date: 4/26/2018

20BAM75/Abandonment and Sale of Easement/SY14-062

Agenda Item#: 14.

Summary:

ORDINANCE finding and determining that public convenience and necessity no longer require the continued use of a 1,462 square foot portion of a 10- foot-wide water line easement and a 3,691 square-foot portion of a 30-foot- wide water line easement, both easement portions being located in the James Hamilton Survey, Abstract No. 887, Harris County, Texas; abandoning such portions of the easements to Stadium Realty, LLC, the abutting owner, in consideration of its conveyance to the City of a 4,867 square-foot water line easement, a 200 square-foot water meter easement, payment to the City of \$3,100.00, and other consideration - **DISTRICT K – CASTEX-TATUM**

Background:

SUBJECT: Ordinance authorizing the abandonment and sale of a 1,462 square-foot portion of a 10 foot-wide water line easement and a 3,691 square-foot portion of a 30 foot-wide water line easement, in exchange for conveyance to the City of a 20 foot-wide water line easement and a 200 square-foot water meter easement, all out of the James Hamilton Survey, A-887. **Parcels SY14-062A, SY14-062B, KY14-316A, and KY14-316B**

RECOMMENDATION: (Summary) It is recommended City Council approve an ordinance authorizing the abandonment and sale of a 1,462 square-foot portion of a 10 foot-wide water line easement and a 3,691 square-foot portion of a 30 foot-wide water line easement in exchange for a consideration of \$3,100.00 minimum fee plus conveyance to the City of a 20 foot-wide water line easement and a 200 square-foot water meter easement, all out of the James Hamilton Survey, A-887. **Parcels SY14-062A, SY14-062B, KY14-316A, and KY14-316B**

SPECIFIC EXPLANATION: By Council Motion 2015-0016, City Council authorized the abandonment and sale of a ±5,423-square-foot water line easement and a ±17,296-square-foot water line easement, from the IH 610 service road to their termini, in exchange for conveyance of a 20-foot wide water line easement, a 10-foot by 20-foot water meter easement, and a 15-foot by 25-foot water meter easement, all out of the James Hamilton Survey, A-887. Thereafter, modifications were made to the site plan which required adjustments to the abandonment and conveyance parcels. Stadium Realty, LLC (Ricardo M. Weitz, Managing Member), the abutting property owner, plans to construct an automobile repair shop for Central Houston Nissan.

Stadium Realty, LLC has complied with the transaction requirements, has accepted the City's offer, and has rendered payment in full.

The City will sell to Stadium Realty, LLC:

Parcel SY14-062A

1,462 square-foot water line easement:

Valued at \$25.00 per square foot X 50%	\$18,275.00
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Parcel SY14-062B

3,691 square-foot water line easement: Valued at \$25.00 per square foot X 50%	\$46,137.00 (R)
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TOTAL ABANDONMENT	<u>\$64,412.00</u>
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Stadium Realty, LLC paid:	\$3,100.00 (minimum Fee)
---------------------------	--------------------------

Cash
Plus conveyed to the City:

<u>Parcel KY14-316A</u> 4,867 square-foot water line easement Valued at \$25.00 per square foot X 50%	\$60,838.00 (R)
--	-----------------

<u>Parcel KY14-316B</u> 200 square-foot water meter easement: Valued at \$25.00 per square foot X 90%	\$4,500.00
--	------------

TOTAL CASH AND CONVEYANCES	<u>\$68,438.00</u>
-----------------------------------	---------------------------

Therefore, it is recommended City Council approve an ordinance authorizing the abandonment and sale of a 1,462 square-foot portion of a 10 foot-wide water line easement and a 3,691 square-foot portion of a 30 foot-wide water line easement, in exchange for conveyance to the City of a 20 foot-wide water line easement and a 200 square-foot water meter easement, all out of the James Hamilton Survey, A-887

Carol Ellinger Haddock, P.E.
Director
Houston Public Works

Prior Council Action:

Motion 2015-0016, 1/7/15

Contact Information:

Marjorie L. Cox

Assistant Director - Real Estate Services

Phone: (832) 395-3130

ATTACHMENTS:**Description**

Signed Coversheet

Parcel Map

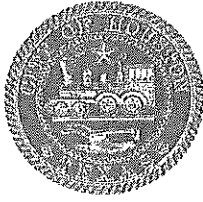
Aerial Map

Type

Signed Cover sheet

Backup Material

Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:

District K

Item Creation Date: 4/26/2018

20BAM75/Abandonment and Sale of Easement/SY14-062

Agenda Item#:

Background:

SUBJECT: Ordinance authorizing the abandonment and sale of a 1,462 square-foot portion of a 10 foot-wide water line easement and a 3,691 square-foot portion of a 30 foot-wide water line easement, in exchange for conveyance to the City of a 20 foot-wide water line easement and a 200 square-foot water meter easement, all out of the James Hamilton Survey, A-887. **Parcels SY14-062A, SY14-062B, KY14-316A, and KY14-316B**

RECOMMENDATION: (Summary) It is recommended City Council approve an ordinance authorizing the abandonment and sale of a 1,462 square-foot portion of a 10 foot-wide water line easement and a 3,691 square-foot portion of a 30 foot-wide water line easement in exchange for a consideration of \$3,100.00 minimum fee plus conveyance to the City of a 20 foot-wide water line easement and a 200 square-foot water meter easement, all out of the James Hamilton Survey, A-887. **Parcels SY14-062A, SY14-062B, KY14-316A, and KY14-316B**

SPECIFIC EXPLANATION: By Council Motion 2015-0016, City Council authorized the abandonment and sale of a ±5,423-square-foot water line easement and a ±17,296-square-foot water line easement, from the IH 610 service road to their termini, in exchange for conveyance of a 20-foot wide water line easement, a 10-foot by 20-foot water meter easement, and a 15-foot by 25-foot water meter easement, all out of the James Hamilton Survey, A-887. Thereafter, modifications were made to the site plan which required adjustments to the abandonment and conveyance parcels. Stadium Realty, LLC (Ricardo M. Weitz, Managing Member), the abutting property owner, plans to construct an automobile repair shop for Central Houston Nissan.

Stadium Realty, LLC has complied with the transaction requirements, has accepted the City's offer, and has rendered payment in full.

The City will sell to Stadium Realty, LLC:

Parcel SY14-062A

1,462 square-foot water line easement: \$18,275.00
Valued at \$25.00 per square foot X 50%

Parcel SY14-062B

3,691 square-foot water line easement: \$46,137.00 (R)
Valued at \$25.00 per square foot X 50%

TOTAL ABANDONMENT **\$64,412.00**

Stadium Realty, LLC paid: \$3,100.00 (minimum Fee)

Cash

Plus conveyed to the City:

Parcel KY14-316A

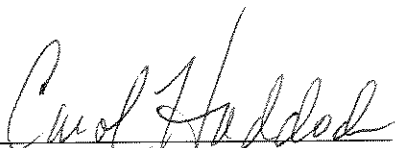
4,867 square-foot water line easement: \$60,838.00 (R)
Valued at \$25.00 per square foot X 50%

Parcel KY14-316B

200 square-foot sanitary sewer easement: \$4,500.00
Valued at \$25.00 per square foot X 90%

TOTAL CASH AND CONVEYANCES **\$68,438.00**

Therefore, it is recommended City Council approve an ordinance authorizing the abandonment and sale of a 1,462 square-foot portion of a 10 foot-wide water line easement and a 3,691 square-foot portion of a 30 foot-wide water line easement, in exchange for conveyance to the City of a 20 foot-wide water line easement and a 200 square-foot water meter easement, all out of the James Hamilton Survey, A-887



Carol Ellinger Haddock, P.E.
Director
Houston Public Works

Prior Council Action:

Motion 2015-0016, psd 1/7/15

Contact Information:

Marjorie L. Cox
Assistant Director - Real Estate Services
(832) 395-3130

ATTACHMENTS:

Description

Parcel Map
Aerial Map

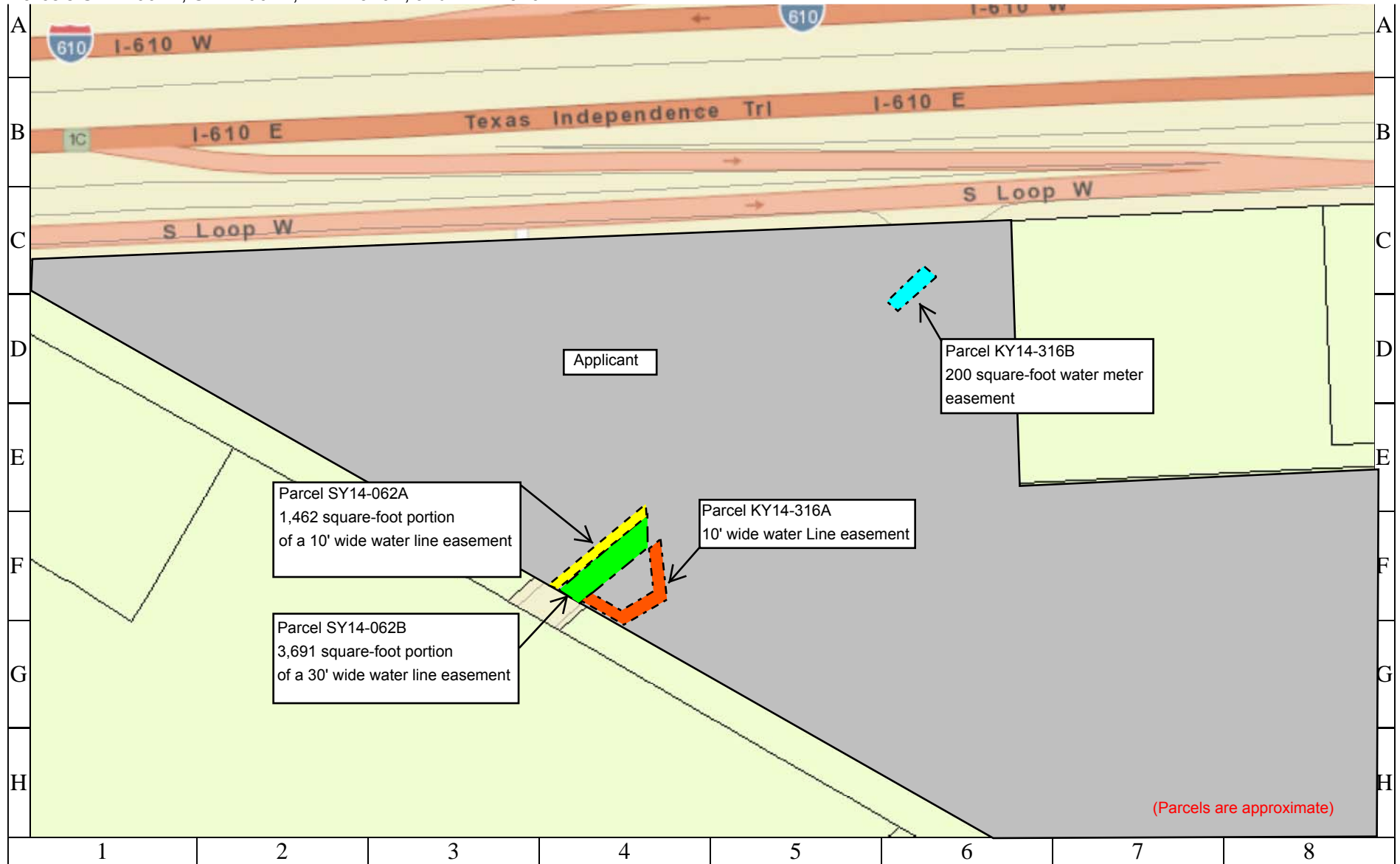
Type

Backup Material
Backup Material

PARCEL MAP

Abandonment and sale of a 1,463 square-foot portion of a 10 foot-wide water line easement and a 3,691 square-foot portion of a 30 foot-wide water line easement, in exchange for conveyance to the City of a 10 foot-wide water line easement and a 200 square-foot water meter easement, all out of the James Hamilton Survey, A-887.

Parcels SY14-062A, SY14-062B, KY14-316A, and KY14-316B



CITY OF HOUSTON

Department of Public Works and Engineering
Geographic Information & Management System (GIMS)

DISCLAIMER: THIS MAP REPRESENTS THE BEST INFORMATION AVAILABLE TO THE CITY.
THE CITY DOES NOT WARRANT ITS ACCURACY OR COMPLETENESS.
FIELD VERIFICATIONS SHOULD BE DONE AS NECESSARY.



Aerial Map

Abandonment and sale of a 1,463 square-foot portion of a 10 foot-wide water line easement and a 3,691 square-foot portion of a 30 foot-wide water line easement, in exchange for conveyance to the City of a 10 foot-wide water line easement and a 200 square-foot water meter easement, all out of the James Hamilton Survey, A-887. Parcels SY14-062A, SY14-062B, KY14-316A, and KY14-316B



CITY OF HOUSTON
Department of Public Works and Engineering
Geographic Information & Management System (GIMS)

DISCLAIMER: THIS MAP REPRESENTS THE BEST INFORMATION AVAILABLE TO THE CITY.
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FIELD VERIFICATIONS SHOULD BE DONE AS NECESSARY.





CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date: 3/16/2018

HCD18-35a Land Assemblage Redevelopment Authority
(LARA) dba Houston Land Banka

Agenda Item#: 15.

Summary:

ORDINANCE approving and authorizing Land Assembly and Development Grant Agreement and an Acquisition and Development Agreement between the City of Houston and **THE LAND ASSEMBLAGE REDEVELOPMENT AUTHORITY, now doing business as THE HOUSTON LAND BANK**, to provide funds for the acquisition and development of land for affordable housing

Background:

The Housing and Community Development Department (HCDD) recommends City Council approval of a Land Assembly Grant Agreement between the City of Houston and the Land Assemblage Redevelopment Authority (LARA), doing business as the Houston Land Bank, providing \$5,000,000.00 in previously appropriated (by Ordinance #2017-759 on 10/4/17) Tax Increment Reinvestment Zone (TIRZ) Affordable Housing funds for the acquisition of properties associated with the Complete Communities, disaster recovery and other areas determined to be high priority areas for affordable home development.

Previously, LARA focused on acquiring tax-delinquent land parcels, often neighborhood eyesores and magnets for crime, and selling them at a reduced cost to developers of affordable homes. To date, LARA efforts have led to the acquisition of over 1,210 parcels in neighborhoods with high concentrations of abandoned and vacant lots and to the new construction of over 351 affordable homes. These new homes have returned over \$42,962,294 worth of total market value to the tax rolls.

To further support the Mayor's priorities of increased single-family home development and Complete Communities, LARA dba Houston Land Bank proposes expanding its scope beyond the acquisition of tax delinquent properties to include strategic acquisitions within transit oriented development and other places deemed by the city a priority for new single-family development. This appropriation will create a revolving fund restricted to the acquisition and maintenance of additional properties. In the event the funds are not used for their intended purpose, LARA dba Houston Land Bank will return any unused or ineligibly spent funds to the City of Houston.

There is no estimated impact to the operating and maintenance costs as a result of this CIP project. There, no Fiscal Note is required as stated in the Financial Policy Ord. 2014-1078

The Housing and Community Affairs Committee reviewed this item on March 20, 2018.

Tom McCasland, Director

Prior Council Action:

10/4/2017, (O) 2017-759

Amount of Funding:

\$5,000,000.00

Tax Increment Reinvestment Zone (TIRZ) Affordable Housing Fund
Fund 2409

Contact Information:

Roxanne Lawson

Phone: 832.394.6307

ATTACHMENTS:

Description

Coversheet (revised)

Type

Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 7/17/2018

ALL

Item Creation Date: 3/16/2018

HCD18-35a Land Assemblage Redevelopment Authority
(LARA) dba Houston Land Bank

Agenda Item#:

Background:

The Housing and Community Development Department (HCDD) recommends City Council approval of a Land Assembly Grant Agreement between the City of Houston and the Land Assemblage Redevelopment Authority (LARA), doing business as the Houston Land Bank, providing \$5,000,000.00 in previously appropriated (by Ordinance #2017-759 on 10/4/17) Tax Increment Reinvestment Zone (TIRZ) Affordable Housing funds for the acquisition of properties associated with the Complete Communities, disaster recovery and other areas determined to be high priority areas for affordable home development.

Previously, LARA focused on acquiring tax-delinquent land parcels, often neighborhood eyesores and magnets for crime, and selling them at a reduced cost to developers of affordable homes. To date, LARA efforts have led to the acquisition of over 1,210 parcels in neighborhoods with high concentrations of abandoned and vacant lots and to the new construction of over 351 affordable homes. These new homes have returned over \$42,962,294 worth of total market value to the tax rolls.

To further support the Mayor's priorities of increased single-family home development and Complete Communities, LARA dba Houston Land Bank proposes expanding its scope beyond the acquisition of tax delinquent properties to include strategic acquisitions within transit oriented development and other places deemed by the city a priority for new single-family development. This appropriation will create a revolving fund restricted to the acquisition and maintenance of additional properties. In the event the funds are not used for their intended purpose, LARA dba Houston Land Bank will return any unused or ineligibly spent funds to the City of Houston.

There is no estimated impact to the operating and maintenance costs as a result of this CIP project. Therefore, no Fiscal Note is required as stated in the Financial Policy Ord. 2014-1078.

This item was presented to the Housing and Community Affairs Committee on March 20, 2018.

A handwritten signature in black ink, appearing to read "Tom McCasland", is written over a horizontal line.

Tom McCasland, Director

Prior Council Action:

10/4/2017, (O) 2017-759

Amount of Funding:

\$5,000,000.00 (previously appropriated on 10/4/17 by Ordinance #2017-759)
Tax Increment Reinvestment Zone (TIRZ) Affordable Housing - Fund 2409

Contact Information:

Roxanne Lawson
832.394.6307



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date: 6/8/2018

HCD18-59b Funding for Land Assemblage Redevelopment
Authority (LARA) dba Houston Land Bank Administration
and Operation

Agenda Item#: 16.

Summary:

ORDINANCE 1) approving and authorizing an eighth amendment to Land Assembly Grant Agreement between the City of Houston and **THE LAND ASSEMBLAGE REDEVELOPMENT AUTHORITY, now doing business as THE HOUSTON LAND BANK**, to provide funds to reimburse certain approved costs and providing for the transfer of funds previously authorized to be used for costs in certain budget categories ("targeted funds") to Land Assembly Acquisition Fund to be used for costs related to land acquisition and development; 2) authorizing the transfer of the targeted funds to the Land Assembly Acquisition Fund

Background:

The Housing and Community Development Department (HCDD) requests City Council authorize and approve an eighth amendment to the Land Assembly Grant Agreement with Land Assemblage Redevelopment Authority (LARA) dba Houston Land Bank (HLB), to provide \$1,250,000.00 in Tax Increment Reinvestment Zone (TIRZ) Affordable Housing funds, previously appropriated on November 1, 2017 by Ordinance 2017-860, and authorize the transfer of funds previously authorized to be used for costs in certain budget categories under Ordinance Nos. 2008-255, 2009-261 and 2009-1220 to a Land Assembly Acquisition Fund to be used for costs related to land acquisition and development.

The balances of the funds to be transferred are set forth in the LARA Compilation Report for the year ended June 30, 2018 as:

1. Restricted cash and cash equivalents – Sewer & Water Tap (\$100,000.00)
2. Restricted cash and cash equivalents – Advertising/Marketing (\$418,719.00)
3. Restricted cash – CDC Fees (\$100,000.00)
4. Restricted Cash – Builders Incentive Program (\$197,407.00)

There is no estimated impact to the operating and maintenance costs as a result of this CIP project. Therefore, no Fiscal Note is required as stated in the Financial Policy Ord. 2014-1078.

The Housing and Community Affairs Committee reviewed this item on June 19, 2018.

Tom McCasland, Director

Prior Council Action:

04/01/2009 (O) 2009-261

12/02/2009 (O) 2009-1220

11/01/2017 (O) 2017-0860

Amount of Funding:

\$1,250,000.00 - TIRZ Affordable Housing Fund (2409)

(previously appropriated on 11/1/17 by Ordinance #2017-860)

Contact Information:

Roxanne Lawson

Phone: (832) 394-6307

ATTACHMENTS:**Description**

Coversheet (revised)

Type

Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date: 6/8/2018

HCD18-59b Eighth Amendment to Grant Agreement, Funding
for Land Assemblage Redevelopment Authority (LARA) dba
Houston Land Bank Administration and Operations, and
Authorization to Transfer Previous Funding

Agenda Item#:

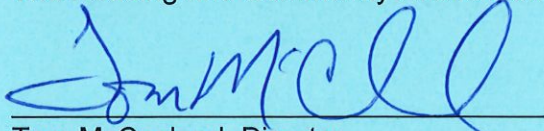
Background:

The Housing and Community Development Department (HCDD) requests City Council authorize and approve an eighth amendment to the Land Assembly Grant Agreement with Land Assemblage Redevelopment Authority (LARA) dba Houston Land Bank (HLB), to provide \$1,250,000.00 in Tax Increment Reinvestment Zone (TIRZ) Affordable Housing funds, previously appropriated on November 1, 2017 by Ordinance 2017-860, and authorize the transfer of funds previously authorized to be used for costs in certain budget categories under Ordinance Nos. 2008-255, 2009-261 and 2009-1220 to a Land Assembly Acquisition Fund to be used for costs related to land acquisition and development. The balances of the funds to be transferred are set forth in the LARA Compilation Report for the year ended June 30, 2018 as:

1. Restricted cash and cash equivalents – Sewer & Water Tap (\$100,000.00)
2. Restricted cash and cash equivalents – Advertising/Marketing (\$418,719.00)
3. Restricted cash – CDC Fees (\$100,000.00)
4. Restricted Cash – Builders Incentive Program (\$197,407.00)

There is no estimated impact to the operating and maintenance costs as a result of this CIP project. Therefore, no Fiscal Note is required as stated in the Financial Policy Ord. 2014-1078.

The Housing and Community Affairs Committee reviewed this item on June 19, 2018.



Tom McCasland, Director

Prior Council Action: 03/26/2008, (O) 2008-255

04/01/2009, (O) 2009-261

12/02/2009 (O) 2009-1220

11/01/2017 (O) 2017-0860

Amount of Funding:

\$1,250,000.00 (previously appropriated on 11/1/17 by Ordinance #2017-860)

Tax Increment Reinvestment Zone (TIRZ) Affordable Housing – Fund 2409

Contact Information:

Roxanne Lawson

(832) 394-6307



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date: 8/8/2018

HHD - FLAS Second Amendment

Agenda Item#: 17.

Summary:

ORDINANCE amending Ordinance No. 2014-0055, as amended, to increase the maximum contract amount of contract between the City of Houston and **FUNDACION LATINOAMERICANA DE ACCION SOCIAL, INC** for HIV Counseling, Testing and Referral Services - \$15,000.00 - Grant Fund

Background:

The Houston Health Department (HHD) requests City Council approval of an ordinance amending Ordinance No. 2014-0055, as amended, to increase the maximum contract amount of a contract between the City of Houston And Fundacion Latinoamericana De Accion Social, Inc. for counseling, testing and referral services, increasing the maximum contract amount by \$15,000.00, which makes the new maximum contract amount \$1,302,500.00. The current maximum contract amount is \$1,287,500.00.

The initial FLAS contract requires the agency to provide comprehensive HIV/STD prevention services in the Houston/Harris County area. The counseling, testing, referral (CTR) and linkage services, are prevention programs that target or benefit persons at high risk for HIV/STD infection or HIV infected persons with risk for secondary infection.

The additional funding will enable FLAS to provide additional HIV Prevention services, including pre-exposure prophylaxis(PrEP) education, linkage to care and support for a public awareness campaign.

Fiscal Note:

No fiscal note is required for grant funds as stated in the Financial Policy Ord 2018-0390

Stephen L. Williams, M.Ed., M.P.A.
Director - Houston Health Department

Prior Council Action:

(01/30/2014) 2014-0055; (08/11/2017) 2017-0567

Amount of Funding:

\$15,000 – Federal Fund – (5000)

Contact Information:

Porfirio Villarreal

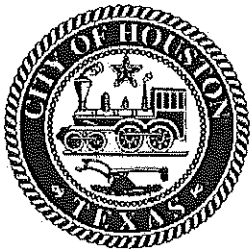
Telephone: 832-393-5041; 713-826-5695

ATTACHMENTS:**Description**

Coversheet (revised)

Type

Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:

ALL

Item Creation Date: 7/31/2018

**HHD – Fundación Lationamericana De Acción Social,
Inc. (FLAS)**

Agenda Item#:

Caption:

Summary:

The Houston Health Department (HHD) requests City Council approval of an ordinance amending Ordinance No. 2014-0055, as amended, to increase the maximum contract amount of a contract between the City of Houston And Fundacion Latinoamericana De Accion Social, Inc. for counseling, testing and referral services.

Background:

The Houston Health Department (HHD) requests City Council approval of an ordinance amending Ordinance No. 2014-0055, as amended, to increase the maximum contract amount of a contract between the City of Houston And Fundacion Latinoamericana De Accion Social, Inc. for counseling, testing and referral services, increasing the maximum contract amount by \$15,000.00, which makes the new maximum contract amount \$1,302,500.00. The current maximum contract amount is \$1,287,500.00.

The initial FLAS contract requires the agency to provide comprehensive HIV/STD prevention services in the Houston/Harris County area. The counseling, testing, referral (CTR) and linkage services, are prevention programs that target or benefit persons at high risk for HIV/STD infection or HIV infected persons with risk for secondary infection.

The additional funding will enable FLAS to provide additional HIV Prevention services, including pre-exposure prophylaxis(PrEP) education, linkage to care and support for a public awareness campaign.

Fiscal Note:

No fiscal note is required for grant funds.

A handwritten signature in cursive script, reading "Stephen L. Williams", is written over a horizontal line.

Stephen L. Williams, M.Ed., M.P.A.
Director - Houston Health Department

Prior Council Action:

(01/30/2014) 2014-0055; (8/11/2017) 2017-0567

Amount of Funding:

\$15,000 – Federal Fund – (5000)

Contact Information:

Porfirio Villarreal

Telephone: 832-393-5041; 713-826-5695



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date:

PLN Accepting Grant for 100 Resilient Cities

Agenda Item#: 18.

Summary:

ORDINANCE approving and authorizing submission of an application for grant assistance to **ROCKEFELLER PHILANTHROPY ADVISORS, INC**; accepting a grant for the City of Houston to participate in the 100 Resilient Cities Program; approving an agreement between the City of Houston and **ROCKEFELLER PHILANTHROPY ADVISORS, INC**; authorizing the Director of the City's Planning and Development Department to act as the City's representative to accept and expend the grant funds, and to apply for and accept all subsequent awards, if any

Background:

The 100 Resilient Cities program was pioneered by the Rockefeller Foundation ("RF") (through Rockefeller Philanthropy Advisors, Inc. ("RPA")) and is dedicated to helping cities around the world become more resilient to the physical, social and economic challenges they face. The RF definition of urban resilience is the capacity of individuals, communities, institutions, businesses, and systems within a city to survive, adapt, and grow no matter what kinds of chronic stresses and acute shocks they experience.

Houston has been selected to become a 100RC city. As such RF will fund, through a reimbursement process, the salary and benefits of a Chief Resilience Officer for two years, and provide technical assistance, in the form of Project Partners, funded entirely by RPA, to guide the City through the process of developing and implementing a Houston Resilience Strategy. Due to the reimbursement nature of the grant, the amount is currently estimated at \$500,000.00.

Houston's Resilience Strategy will address resilience at the individual, neighborhood, city-wide and regional levels. It will include, but will not be limited to flood mitigation and recovery. The plan will not be a new independent planning initiative. Instead, it will leverage existing plans and studies, such as Plan Houston and the Complete Communities initiative, and will be a force amplifier that strengthens and accelerates all efforts. The 100RC process will result in clear, actionable steps for making Houston and Houstonians more resilient.

The project will include significant community engagement. It will be led by the CRO and a Steering Committee that is representational of Houston and will emphasize broad public participation.

The Planning and Development Department recommends that City Council adopt an ordinance accepting the grant award from RPA for Houston's work in 100 Resilient Cities.

Fiscal Note:

No fiscal note is required on grant items.

Patrick Walsh, P.E.

Director

Planning and Development Department

Amount of Funding:

\$500,000.00 - Other Government - Grant Funded (5040)

Contact Information:

Margaret Wallace Brown

Deputy Director

Phone: 832-393-6588

ATTACHMENTS:**Description**

Coversheet

Type

Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date:

PLN Accepting Grant for 100 Resilient Cities

Agenda Item#: 44.

Summary:

ORDINANCE accepting a grant for the City of Houston to participate in The 100 Resilient Cities Program; approving an agreement between the City of Houston and **ROCKEFELLER PHILANTHROPY ADVISORS, INC.**; authorizing the Director of the City's Planning and Development Department to act as the City's representative to accept and expend the grant funds, and to apply for and accept all subsequent awards, if any; containing provisions relating to the subject; and declaring an emergency.

Background:

The 100 Resilient Cities program was pioneered by the Rockefeller Foundation ("RF") (through Rockefeller Philanthropy Advisors, Inc. ("RPA")) and is dedicated to helping cities around the world become more resilient to the physical, social and economic challenges they face. The RF definition of urban resilience is the capacity of individuals, communities, institutions, businesses, and systems within a city to survive, adapt, and grow no matter what kinds of chronic stresses and acute shocks they experience.

Houston has been selected to become a 100RC city. As such RF will fund a Chief Resilience Officer for two years and provide technical assistance, in the form of Project Partners, funded entirely by RPA, to guide the City through the process of developing and implementing a Houston Resilience Strategy.

Houston's Resilience Strategy will address resilience at the individual, neighborhood, city-wide and regional levels. It will include, but will not be limited to flood mitigation and recovery. The plan will not be a new independent planning initiative. Instead, it will leverage existing plans and studies, such as Plan Houston and the Complete Communities initiative, and will be a force amplifier that strengthens and accelerates all efforts. The 100RC process will result in clear, actionable steps for making Houston and Houstonians more resilient.

The project will include significant community engagement. It will be led by the CRO and a Steering Committee that is representational of Houston and will emphasize broad public participation.

The Planning and Development Department recommends that City Council adopt an ordinance accepting the grant award from RPA for Houston's work in 100 Resilient Cities.

Patrick Walsh, P.E.
Director
Planning and Development Department

Contact Information:

Margaret Wallace Brown
Deputy Director
832-393-6588

ATTACHMENTS:

Description

Cover Sheet
Caption
Ordinance

Type

Signed Cover sheet
Backup Material
Ordinance/Resolution/Motion



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District E

Item Creation Date: 8/14/2018

ARA-Ordinance Denying Entergy's Proposed Rate Increase

Agenda Item#: 19.

Summary:

ORDINANCE denying the application of **ENTERGY TEXAS, INC** for authority to change rates; maintaining current rates

Background:

The Administration & Regulatory Affairs Department (ARA) recommends that City Council adopt an ordinance denying Entergy Texas, Inc.'s (Entergy) proposed rate increase and maintaining current rates in effect within Houston.

Entergy provides electric service to approximately 450,000 Texas retail customers. Entergy serves approximately 1,800 customers in the Kingwood area — 1,500 residential and 300 commercial customers. The City of Houston (City) exercises original jurisdiction over the rates, operations and services of Entergy under the provisions of the Texas Utilities Code for customers within Houston city limits. Houston participates in Entergy proceedings, including rate case proceedings, as a member of the Steering Committee of Cities (Coalition), a group of similarly situated cities with Entergy customers within their city limits.

On May 15, 2018, Entergy filed a Statement of Intent and Application for Authority to Change Rates within its service territory, including the City of Houston. Entergy requested an annual base rate and rider increase of \$16.7 million for the first two years rates are in effect, increasing to \$117.6 million thereafter. Entergy's request includes adjustments to reflect changes in the federal income tax resulting from the Tax Cuts and Jobs Act of 2017 (TCJA), which reduced the federal corporate income tax rate from 35% to 21% effective January 1, 2018.

Through a separate TCJA Rider, Entergy proposed to return approximately \$201.7 million in excess accumulated deferred income taxes (ADIT) to customers over a two-year period (approximately \$101 million per year.) The excess ADIT is the portion of the income taxes the company already collected from ratepayers, but the company no longer has to pay to the federal government as a result of the TCJA. The TCJA Rider lowers the revenue requirement by approximately \$101 million for a two-year period. After two years, customers will pay the full \$117.6 million increase (\$16.7 million + \$101 million.) The proposed rate change would result in a \$2.36 increase to the monthly bill for the average residential customer using 1,000 kWh of electricity, and an estimated \$12.62 increase once the TCJA rider expires.

On June 6, 2018, City Council approved an ordinance suspending for 90 days the proposed effective date of Entergy's rate increase to September 17, 2018. During the suspension period, the Coalition engaged rate experts to review the utility's rate application. Based on the review, the Coalition experts determined that Entergy's request is overstated. The experts recommend that the Coalition cities deny Entergy's proposed rate increase and keep rates at existing levels.

Entergy is expected to appeal the City's decision to the Public Utility Commission (Commission or PUC). Once appealed, the City's proceeding will be consolidated with the concurrently filed rate case before the Commission. The Coalition will continue to participate in the PUC proceeding. The Coalition experts recently filed testimony at the PUC recommending adjustments to Entergy's test-year revenue requirement. The experts recommended that the TCJA refund be applied in such a way that, in conjunction with their recommended adjustments to the revenue requirement, customers do not experience a rate increase.

ARA recommends that City Council adopt an ordinance denying Entergy's proposed rate increase and maintaining existing rates in effect for Houston customers. City Council must make a final determination regarding the rate request no later than September 17, 2018.

Departmental Approval Authority:

**Tina Paez, Director
Administration & Regulatory
Affairs Department**

Other Authorization

Contact Information:

Lara Cottingham **Phone:**(832) 393-8503

Alisa Talley **Phone:**(832) 393-8531

ATTACHMENTS:

Description

8.16.2018 Entergy Deny RCA.pdf

Type

Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

Council District E

Item Creation Date: 8/14/18

ARA- Ordinance Denying Entergy's Proposed Rate Increase

Background

The Administration & Regulatory Affairs Department (ARA) recommends that City Council adopt an ordinance denying Entergy Texas, Inc.'s (Entergy) proposed rate increase and maintaining current rates in effect within Houston.

Entergy provides electric service to approximately 450,000 Texas retail customers. Entergy serves approximately 1,800 customers in the Kingwood area — 1,500 residential and 300 commercial customers. The City of Houston (City) exercises original jurisdiction over the rates, operations and services of Entergy under the provisions of the Texas Utilities Code for customers within Houston city limits. Houston participates in Entergy proceedings, including rate case proceedings, as a member of the Steering Committee of Cities (Coalition), a group of similarly situated cities with Entergy customers within their city limits.

On May 15, 2018, Entergy filed a Statement of Intent and Application for Authority to Change Rates within its service territory, including the City of Houston. Entergy requested an annual base rate and rider increase of \$16.7 million for the first two years rates are in effect, increasing to \$117.6 million thereafter. Entergy's request includes adjustments to reflect changes in the federal income tax resulting from the Tax Cuts and Jobs Act of 2017 (TCJA), which reduced the federal corporate income tax rate from 35% to 21% effective January 1, 2018.


Through a separate TCJA Rider, Entergy proposed to return approximately \$201.7 million in excess accumulated deferred income taxes (ADIT) to customers over a two-year period (approximately \$101 million per year.) The excess ADIT is the portion of the income taxes the company already collected from ratepayers, but the company no longer has to pay to the federal government as a result of the TCJA. The TCJA Rider lowers the revenue requirement by approximately \$101 million for a two-year period. After two years, customers will pay the full \$117.6 million increase (\$16.7 million + \$101 million.) The proposed rate change would result in a \$2.36 increase to the monthly bill for the average residential customer using 1,000 kWh of electricity, and an estimated \$12.62 increase once the TCJA rider expires.

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Entergy is expected to appeal the City's decision to the Public Utility Commission (Commission or PUC). Once appealed, the City's proceeding will be consolidated with the concurrently filed rate case before the Commission. The Coalition will continue to participate in the PUC proceeding. The Coalition experts recently filed testimony at the PUC recommending adjustments to Entergy's test-year revenue requirement. The experts recommended that the TCJA refund be applied in such a way that, in conjunction with their recommended adjustments to the revenue requirement, customers do not experience a rate increase.

ARA recommends that City Council adopt an ordinance denying Entergy's proposed rate increase and maintaining existing rates in effect for Houston customers. City Council must make a final determination regarding the rate request no later than September 17, 2018.

Departmental Approval Authority:



**Tina Paez, Director
Administration & Regulatory
Affairs Department**

Other Authorization

Contact Information:

Lara Cottingham Phone: (832) 393-8503

Alisa Tally Phone: (832) 393-8643



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District I

Item Creation Date: 7/18/2018

PRD - ILA HCP2 6941 Avenue S

Agenda Item#: 20.

Summary:

ORDINANCE approving Interlocal Agreement between the City of Houston, Texas and **HARRIS COUNTY, TEXAS**, for co-ownership of approximately 1.602 acres tract of land located at 6941 Avenue S and owned by the County, to be used to connect the County's Yolanda Black Navarro Buffalo Bend Nature Park and the City's Hidalgo Park; appropriating \$150,000.00 out of Park and Recreation Dedication Fund to be paid to County for a 20% interest in the land for use by the Houston Parks and Recreation Department - **DISTRICT I - GALLEGOS**

Background:

The Houston Parks and Recreation Department (HPARD) recommends City Council approve an Interlocal Agreement between the City of Houston and Harris County and appropriate funds for a twenty percent (20%) undivided ownership interest in the property located at 6941 Avenue S (Park Addition).

Harris County acquired the 1.602-acre Park Addition for Four Hundred Thousand and No/Dollars (\$400,000.00) as part of a planned partnership project to create a greenway that connects the County's Yolanda Black Navarro Buffalo Bend Nature Park and the City's Hidalgo Park. The County will now sell to the City a twenty percent (20%) undivided ownership interest in the Park Addition for One Hundred Fifty Thousand and No/Dollars (\$150,000.00).

With Council approval (Ordinance 2016-0358), HPARD applied for and was awarded a \$750,000 grant from the National Park Service Outdoor Recreation Legacy Partnership Program for the planned greenway known as the Buffalo Bend - Hidalgo Greenway Project. The grant project includes acquisition and restoration to greenspace of the Park Addition. The grant is administered locally by the Texas Parks and Wildlife Department (TPWD). TPWD has approved the land value of the Park Addition as part of the 1:1 match required for the grant.

Park Sector 11

Director's Signature:

Steve Wright, Director
Houston Parks and Recreation Department

Capital Project Information

See attached Form A

Estimated Fiscal Operating Impact

Park Addition 6941 Avenue S (WBS #F-000513-0034-2): There is no Fiscal Operating Impact because Harris County Precinct 2 will operate and maintain the Park Addition.

Amount of Funding:

\$150,000

Park and Recreation Dedication Fund
Fund 4035

Contact Information:

Luci Correa

Phone: 832-395-7057

Email: Luci.Correa@houstontx.gov

ATTACHMENTS:

Description

Type



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date: 4/25/2018

L26471 - WIFI Maintenance and Services - ORDINANCE

Agenda Item#: 21.

Summary:

ORDINANCE appropriating \$607,500.00 out of Airports Improvement Fund and approving and authorizing contract between the City of Houston and **LAYER 3 COMMUNICATIONS, LLC** for WIFI Maintenance Services for the Houston Airport System; providing a maximum contract amount - 3 Years with two one-year options - \$1,838,943.80 - Enterprise Fund

Background:

Formal bids received March 1, 2018 for S75-L26471– Approve an ordinance appropriating \$607,500.00 out of the Airport Improvement Fund (8011) and awarding a contract to Layer 3 Communication, LLC in the amount not to exceed \$2,446,443.80 for WIFI Maintenance Services for the Houston Airport System.

Specific Explanation

The Director of the Houston Airport System and the Chief Procurement Officer recommend that City Council approve an ordinance authorizing the appropriation of \$607,500.00 out of the Airport Improvement Fund (8011) and awarding a **three-year contract, with two one-year options** to **Layer 3 Communication, LLC**. on its low bid meeting specifications in the amount not to exceed **\$2,446,443.80** for WIFI Maintenance Services for the City of Houston.

This project was advertised in accordance with the requirements of the State of Texas bids laws. Twenty prospective bidders downloaded the solicitation document from SPD's e-bidding website, and three bids were received as outlined below.

Company

1. **Layer 3 Communication, LLC**
2. Lone Star Solutions Group
3. Dan's Network LLC

Total Amount

\$2,446,443.80
\$2,993,272.05
\$87,189,500.00

The scope of work requires the contractor furnish all tools, supplies, transportation, equipment, labor, training and supervision necessary to provide basic and other work services in support of the public WIFI and associated Public Data Network for the City of Houston Airports.

M/WBE Participation

This invitation to bid was issued as a goal-oriented contract with an 11% M/WBE participation level. Layer 3 Communication, LLC. has designated the below-named company as its certified M/WBE subcontractor.

Subcontractors	TYPE OF WORK	AMOUNT	%
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Subcontractors	TYPE OF WORK	AMOUNT	%
CST Corp.	Professional Services	\$269,108.82	11%

Pay or Play Program

The proposed contract requires compliance with the City's "Pay or Play" ordinance regarding health benefits to eligible employees in compliance with City policies. In this case, this contractor provides health benefits to eligible employees in compliance with City policy.

Hire Houston First:

The proposed contract requires compliance with the City's 'Hire Houston First' (HHF) ordinance that promotes economic opportunity for Houston business and supports job creation. In this case, Layer 3 Communication, LLC is a designated HHF company, but they were the successful awardee without application of the HHF preference.

Fiscal Notes

Funding for this item is included in the FY2019 Adopted Budget. Therefore, no Fiscal Note is required as stated in the Financial Policy.

Jerry Adams, Chief Procurement Officer
Finance/Strategic Procurement Division

Department Approval Authority

Estimated Spending Authority			
DEPARTMENT	FY2019	OUT YEARS	TOTAL
Houston Airport System	\$1,137,575.80	\$1,308,868.00	\$2,446,443.80

Amount of Funding:

\$1,838,943.80 - Houston Airport System Revenue Fund (8001)

\$ 607,500.00 - Airport Improvement Fund (8011)

\$2,446,443.80 Total

Contact Information:

NAME:	DEPARTMENT/DIVISION	PHONE
Richard Morris, Division Manager	FIN/SPD	(832) 393-8736
Kristen Elliott, Procurement Specialist	FIN/SPD	(832) 393-8724
Jeff Bream, Assistant Director	HAS	(281) 233-1627

ATTACHMENTS:

Description

revised Cover Sheet

Type

Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date: 4/25/2018

L26471 - WIFI Maintenance and Services - ORDINANCE

Agenda Item#: 12.

Summary:

ORDINANCE appropriating the sum of \$607,500.00 out of the Airports Improvement Fund and approving and authorizing a contract between the City of Houston and **LAYER 3 COMMUNICATIONS, LLC** for WIFI maintenance services for the Houston Airport System; providing a maximum contract amount; containing provisions relating to the subject; and declaring an emergency.

Background:

Formal bids received March 1, 2018 for S75-L26471– Approve an ordinance appropriating \$607,500.00 out of the Airport Improvement Fund (8011) and awarding a contract to Layer 3 Communication, LLC in the amount not to exceed \$2,446,443.80 for WIFI Maintenance Services for the Houston Airport System.

Specific Explanation

The Director of the Houston Airport System and the Chief Procurement Officer recommend that City Council approve an ordinance authorizing the appropriation of \$607,500.00 out of the Airport Improvement Fund (8011) and awarding a **three-year contract, with two one-year options** to Layer 3 Communication, LLC. on its low bid meeting specifications in the amount not to exceed **\$2,446,443.80** for WIFI Maintenance Services for the City of Houston.

This project was advertised in accordance with the requirements of the State of Texas bids laws. Twenty prospective bidders downloaded the solicitation document from SPD's e-bidding website, and three bids were received as outlined below.

Company

1. Layer 3 Communication, LLC
2. Lone Star Solutions Group
3. Dan's Network LLC

Total Amount

\$2,446,443.80
\$2,993,272.05
\$87,189,500.00

The scope of work requires the contractor furnish all tools, supplies, transportation, equipment, labor, training and supervision necessary to provide basic and other work services in support of the public WIFI and associated Public Data Network for the City of Houston Airports.

M/WBE Participation

This invitation to bid was issued as a goal-oriented contract with an 11% M/WBE participation level. Layer 3 Communication, LLC. has designated the below-named company as its certified M/WBE subcontractor.

Subcontractors	TYPE OF WORK	AMOUNT	%
CST Corp.	Professional Services	\$269,108.82	11%

Pay or Play Program

The proposed contract requires compliance with the City's "Pay or Play" ordinance regarding health benefits to eligible employees in compliance with City policies. In this case, this contractor provides health benefits to eligible employees in compliance with City policy.

Hire Houston First:

The proposed contract requires compliance with the City's 'Hire Houston First' (HHF) ordinance that promotes economic opportunity for Houston business and supports job creation. In this case, Layer 3 Communication, LLC is a designated HHF company, but they were the successful awardee without application of the HHF preference.

Fiscal Notes

Funding for this item is included in the FY2019 Adopted Budget. Therefore, no Fiscal Note is required as stated in the Financial Policy.


Jerry Adams, Chief Procurement Officer
Finance/Strategic Procurement Division

Department Approval Authority

Estimated Spending Authority			
DEPARTMENT	FY2019	OUT YEARS	TOTAL
Houston Airport System	\$1,137,575.80	\$1,308,868.00	\$2,446,443.80

Amount of Funding:

\$1,838,943.80 - Houston Airport System Revenue Fund (8001)

\$ 607,500.00 - Airport Improvement Fund (8011)

\$2,446,443.80 Total

Contact Information:

NAME:	DEPARTMENT/DIVISION	PHONE
Richard Morris, Division Manager	FIN/SPD	(832) 393-8736
Kristen Elliott, Procurement Specialist	FIN/SPD	(832) 393-8724
Jeff Bream, Assistant Director	HAS	(281) 233-1627

ATTACHMENTS:

Description	Type
<u>Revised Cover Sheet</u>	Signed Cover sheet
<u>POP 1</u>	Backup Material
<u>POP 2</u>	Backup Material
<u>Form A Fair Campaign</u>	Backup Material
<u>Form B Cover</u>	Backup Material
<u>Drug Policy Compliance Agreement</u>	Backup Material
<u>Drug Compliance Declaration</u>	Backup Material
<u>Bid Tab</u>	Backup Material
<u>MWBE Intent</u>	Backup Material
<u>MWBE Schedule</u>	Backup Material
<u>RCA Budget Form</u>	Backup Material
<u>Tax Form</u>	Backup Material
<u>Budget Funding Approval</u>	Signed Cover sheet
<u>HAS Approval</u>	Signed Cover sheet
<u>(Revised)Funding changes info</u>	Financial Information
<u>Contract</u>	Contract/Exhibit
<u>ordinance</u>	Ordinance/Resolution/Motion



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date:

T26554 - Spay and Neutering Services - ORDINANCE

Agenda Item#: 22.

Summary:

ORDINANCE approving and authorizing agreements between the City of Houston and **SPAY-NEUTER ASSISTANCE PROGRAM, INC, EMANCIPET, INC, and HOUSTON HUMANE SOCIETY** for Spay and Neutering Services for the Administration and Regulatory Affairs Department; providing a maximum contract amount - 3 Years with two one-year options - \$3,800,000.00 - BARC Special Revenue Fund

Background:

S19-T26554 - Approve an ordinance awarding contracts to Spay-Neuter Assistance Program, Inc. (primary contractor) in the total amount of \$1,900,000.00; Emancipet, Inc. (secondary contractor) in the total amount of \$950,000.00; and the Houston Humane Society (secondary contractor) in the total amount of \$950,000.00 for an aggregate total amount of \$3,800,000.00 for spay and neutering services for the Administration and Regulatory Affairs Department.

Specific Explanation:

The Director of the Administration and Regulatory Affairs Department and the Chief Procurement Officer recommend that City Council approve an ordinance awarding a **three-year contract, with two one-year options to Spay-Neuter Assistance Program, Inc.** (primary contractor) in the total amount of \$1,900,000.00; **Emancipet, Inc.** (secondary contractor) in the total amount of \$950,000.00; and the **Houston Humane Society** (secondary contractor) in the total amount of \$950,000.00 for an aggregate total amount of **\$3,800,000.00** for spay and neutering services for the Administration and Regulatory Affairs Department.

First preference in assigning work shall be given to the primary contractor; however in the event that any of the services cannot be commenced by the primary source with twenty-four (24) hours of notification by the department or the workload exceeds the primary contractor's capacity, or because of special projects, the City may order services from the two (2) secondary sources. In addition, the department may elect to assign work to the secondary contractors if the primary contractor is unable to fulfill the work requirements.

The scope of work requires the contractors to provide all labor, materials, equipment, tools, supervision, and transportation necessary to perform spay/neutering operations on feline and canine animals by licensed veterinarian personnel at no cost to qualifying Houston residents in accordance with the City's requirements as part of the City's spay/neuter initiative. The contractor will also be required to vaccinate each spayed/neutered animal against rabies, administer microchips, and clip the left ear of all feral and unowned free roaming cats as part of the BARC trap, neuter, and return (TNR) program.

This recommendation is made pursuant to Chapter 252 Section 252.022 (a) (2) "a procurement

This recommendation is made pursuant to Chapter 202, Section 202.022 (a) (2) "a procurement necessary to preserve or protect the public health and safety of the municipality's residents" of the Texas Government Code for exempted purchases.

M/WBE Subcontractor:

Zero-percent goal document approved by the Office of Business Opportunity.

Pay or Play Program

The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the Contractors provides health benefits to eligible employees in compliance with City policy.

Hire Houston First:

This procurement is exempt from the City's Hire Houston First Ordinance. Bids/proposals were not solicited because the department is utilizing a direct award for this purchase.

Fiscal Note:

Funding for this item is included in the FY2019 Adopted Budget. Therefore, no Fiscal Note is required as stated in the Financial Policies.

Jerry Adams, Chief Procurement Officer
Finance/Strategic Procurement Division

Department Approval Authority

Estimated Spending Authority			
DEPARTMENT	FY2019	OUT YEARS	TOTAL
Administrative & Regulatory Affairs	\$696,667.00	\$3,103,333.00	\$3,800,000.00

Amount of Funding:

\$3,800,000.00
BARC Special Revenue Fund
Fund 2427

Contact Information:

Richard Morris/832-393-8736
Roy Korthals/832-393-8734
Lara Cottingham/832-393-8503

ATTACHMENTS:

Description

Coversheet signed by CPO T26554

Type

Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:

ALL

Item Creation Date:

T26554 - Spay and Neutering Services - ORDINANCE

Agenda Item#:

Background:

S19-T26554 - Approve an ordinance awarding contracts Spay-Neuter Assistance Program, Inc. (primary contractor) in the total amount of \$1,900,000.00; Emancipet, Inc. (secondary contractor) in the total amount of \$950,000.00; and the Houston Humane Society (secondary contractor) in the total amount of \$950,000.00 for an aggregate total amount of \$3,800,000.00 for spay and neutering services for the Administration and Regulatory Affairs Department.

Specific Explanation:

The Director of the Administration and Regulatory Affairs Department and the Chief Procurement Officer recommend that City Council approve an ordinance awarding a **three-year contract, with two one-year options to Spay-Neuter Assistance Program, Inc.** (primary contractor) in the total amount of \$1,900,000.00; **Emancipet, Inc.** (secondary contractor) in the total amount of \$950,000.00; and the **Houston Humane Society** (secondary contractor) in the total amount of \$950,000.00 for an aggregate total amount of \$3,800,000.00 for spay and neutering services for the Administration and Regulatory Affairs Department.

First preference in assigning work shall be given to the primary contractor; however in the event that any of the services cannot be commenced by the primary source with twenty-four (24) hours of notification by the department or the workload exceeds the primary contractor's capacity, or because of special projects, the City may order services from the two (2) secondary sources. In addition, the department may elect to assign work to the secondary contractors if the primary contractor is unable to fulfill the work requirements.

The scope of work requires the contractors to provide all labor, materials, equipment, tools, supervision, and transportation necessary to perform spay/neutering operations on feline and canine animals by licensed veterinarian personnel at no cost to qualifying Houston residents in accordance with the City's requirements as part of the City's spay/neuter initiative. The contractor will also be required to vaccinate each spayed/neutered animal against rabies, administer microchips, and clip the left ear of all feral and unowned free roaming cats as part of the BARC trap, neuter, and return (TNR) program.

This recommendation is made pursuant to Chapter 252, Section 252.022 (a) (2) "a procurement necessary to preserve or protect the public health and safety of the municipality's residents" of the Texas Government Code for exempted purchases.

M/WBE Subcontractor:

Zero-percent goal document approved by the Office of Business Opportunity.

Pay or Play Program

The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the Contractors provides health benefits to eligible employees in compliance with City policy.

Hire Houston First:

This procurement is exempt from the City's Hire Houston First Ordinance. Bids/proposals were not solicited because the department is utilizing a direct award for this purchase.

Fiscal Note:

Funding for this item is included in the FY2019 Adopted Budget. Therefore, no Fiscal Note is required as stated in the Financial Policies.



Jerry Adams, Chief Procurement Officer
Finance/Strategic Procurement Division

Department Approval Authority

Estimated Spending Authority			
DEPARTMENT	FY2019	OUT YEARS	TOTAL
Administrative & Regulatory Affairs	\$696,667.00	\$3,103,333.00	\$3,800,000.00

Amount of Funding:

\$3,800,000.00 - BARC Special Revenue Fund (2427)

Contact Information:

Richard Morris/832-393-8736

Roy Korthals/832-393-8734

Lara Cottingham/832-393-8503

ATTACHMENTS:

Description

Type

<u>Emancipet Affidavit</u>	Backup Material
<u>Emancipet Fair Campaign Ordinance (Form B)</u>	Backup Material
<u>Campaign Finance Ordinance (Form B)</u>	Backup Material
<u>Emancipet Certificate of Interested Parties</u>	Backup Material
<u>Emancipet POP 1</u>	Backup Material
<u>Emancipet POP 2</u>	Backup Material
<u>Emancipet Resolution of Contractor</u>	Backup Material
<u>Emancipet Statement of Residency</u>	Backup Material
<u>Emancipet Secretary of State</u>	Backup Material
<u>Emancipet COI and Endorsements</u>	Backup Material
<u>MWBE Approved Zero Percent Goal</u>	Backup Material
<u>Emancipet Conflict of Interest Questionnaire</u>	Backup Material
<u>Emancipet Budget Funding Info</u>	Financial Information
<u>SNAP Affidavit</u>	Backup Material
<u>SNAP Fair Campaign Ordinance</u>	Backup Material
<u>SNAP Certificate of Interested Parties</u>	Backup Material
<u>SNAP POP 1</u>	Backup Material
<u>SNAP POP 2</u>	Backup Material
<u>SNAP Resolution of Contractor 1</u>	Backup Material
<u>SNAP Resolution of Contractor 2</u>	Backup Material
<u>SNAP Statement of Residency</u>	Backup Material
<u>SNAP Secretary of State</u>	Backup Material
<u>SNAP COI Liability</u>	Backup Material
<u>SNAP Budget Funding Info</u>	Financial Information
<u>HHS Affidavit</u>	Backup Material
<u>HHS Fair Campaign Ordinance</u>	Backup Material
<u>HHS Certificate of Interested Parties</u>	Backup Material
<u>HHS Conflict of Interest Questionnaire</u>	Backup Material
<u>HHS POP 1</u>	Backup Material
<u>HHS POP 2</u>	Backup Material
<u>HHS Resolution of Contractor</u>	Backup Material
<u>HHS Statement of Residency</u>	Backup Material
<u>HHS Secretary of State</u>	Backup Material
<u>HHS Budget Funding Info</u>	Financial Information
<u>HHS Contract</u>	Contract/Exhibit
<u>SNAP Contract</u>	Contract/Exhibit
<u>Emancipet Contract</u>	Contract/Exhibit
<u>Spay and Neutering Services Projections</u>	Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date:

T26354 - Jury Management System Services - ORDINANCE

Agenda Item#: 23.

Summary:

ORDINANCE awarding contract to **QUESTMARK INFORMATION MANAGEMENT, INC** for Jury Management System Services for the Municipal Courts Department; providing a maximum contract amount - 3 Years with two one-year options - \$327,000.00 - General and Other Funds

Background:

Request for Proposals Received on March 29, 2018 for S19-T26354 - Approve an ordinance awarding a contract to Questmark Information Management, Inc. in the amount not to exceed \$327,000.00 for jury management system services for the Municipal Courts Department.

Specific Explanation:

The Director of the Municipal Courts Department (MCD) and the City Chief Procurement Officer recommends that City Council approved an ordinance awarding a **three-year contract, with two one-year options to Questmark Information Management, Inc.** in the amount not to exceed **\$327,000.00** for jury management system services for the Municipal Courts Department.

The scope of work requires the contractor to provide all supervision, labor, equipment, materials, supplies, transportation, and postage related to the summoning of jurors for MCD. Services includes the maintenance of the list of prospective jurors (jury wheel) that is provided by Harris County every two years, the preparation and mailing of summons forms, and an Interactive Voice Response (IVR) system and an online platform both of which allows jurors to claim an exemption/disqualification from service and reset their scheduled appearance date.

This project was advertised in accordance with the requirements of the State of Texas bid laws. Sixty-three prospective proposers downloaded the solicitation document from SPD's e-bidding website, and as a result, two proposals were received from Questmark Information Management, Inc. and Jury Systems, Inc. The evaluation committee was comprised of three evaluators from the Municipal Courts Department. The proposals were evaluated based upon the following criteria.

- Responsiveness to RFP
- Technical and System Functions
- Experience and Qualifications
- Project Implementation Plan

- Price
- Hire Houston First

Questmark Information Management, Inc was deemed the best respondent.

M/WBE Subcontracting:

This request for proposal was issued as a goal oriented with a 11% M/WBE participation level. Questmark Information Management, Inc. has designated the below-named company as its certified M/WBE subcontractors.

<u>Name</u>	<u>Type of Work</u>	<u>Dollar Amount</u>	<u>Percentage</u>
JenR8, Inc.	Supplier of Paper and Envelopes	\$35,970.00	11%

Pay or Play Program:

The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, Questmark Information Management, Inc. provides health benefits to eligible employees in compliance with City policy.

Hire Houston First:

The proposed contract requires compliance with the City's Hire Houston First (HHF) ordinance that promotes economic opportunity for Houston businesses and supports job creation. In this case, Questmark Information Management, Inc. is a designated HHF company, but they were the successful awardee without application of the HHF preference.

Fiscal Note:

Funding for this item is included in the FY19 Adopted Budget. Therefore, no Fiscal Note is required in the Financial Policy Ord. 2014-1078.

Jerry Adams, Chief Procurement Officer
Signature
Finance/Strategic Procurement Division

Department Approval Authority

ESTIMATED SPENDING AUTHORITY

Department	FY19	Out-Years	Total Amount
Municipal Courts Department	\$71,000.00	\$256,000.00	\$327,000.00

Amount of Funding:

\$245,000.00 - General Fund (1000)

\$ 82,000.00 - Municipal Courts Technology Fund (2207)

\$327,000.00 - Total

Contact Information:

Richard Morris/832-393-8736

Roy Korthals/832-393-8734

Ty Davis/832-393-9698

ATTACHMENTS:

Description

RCA T26354

Type

Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:

ALL

Item Creation Date:

T26354 - Jury Management System Services - ORDINANCE

Agenda Item#:

Background:

Request for Proposals Received on March 29, 2018 for S19-T26354 - Approve an ordinance awarding a contract to Questmark Information Management, Inc. in the amount not to exceed \$327,000.00 for jury management system services for the Municipal Courts Department.

Specific Explanation:

The Director of the Municipal Courts Department (MCD) and the City Chief Procurement Officer recommends that City Council approved an ordinance awarding a **three-year contract, with two one-year options to Questmark Information Management, Inc.** in the amount not to exceed **\$327,000.00** for jury management system services for the Municipal Courts Department.

The scope of work requires the contractor to provide all supervision, labor, equipment, materials, supplies, transportation, and postage related to the summoning of jurors for MCD. Services includes the maintenance of the list of prospective jurors (jury wheel) that is provided by Harris County every two years, the preparation and mailing of summons forms, and an Interactive Voice Response (IVR) system and an online platform both of which allows jurors to claim an exemption/disqualification from service and reset their scheduled appearance date.

This project was advertised in accordance with the requirements of the State of Texas bid laws. Sixty-three prospective proposers downloaded the solicitation document from SPD's e-bidding website, and as a result, two proposals were received from Questmark Information Management, Inc. and Jury Systems, Inc. The evaluation committee was comprised of three evaluators from the Municipal Courts Department. The proposals were evaluated based upon the following criteria.

- Responsiveness to RFP
- Technical and System Functions
- Experience and Qualifications
- Project Implementation Plan
- Price
- Hire Houston First

Questmark Information Management, Inc was deemed the best respondent.

M/WBE Subcontracting:

This request for proposal was issued as a goal oriented with a 11% M/WBE participation level. Questmark Information Management, Inc. has designated the below-named company as its certified M/WBE subcontractors.

<u>Name</u>	<u>Type of Work</u>	<u>Dollar Amount</u>	<u>Percentage</u>
JenR8, Inc.	Supplier of Paper and Envelopes	\$35,970.00	11%

Pay or Play Program:

The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, Questmark Information Management, Inc. provides health benefits to eligible employees in compliance with City policy.

Hire Houston First:

The proposed contract requires compliance with the City's Hire Houston First (HHF) ordinance that promotes economic opportunity for Houston businesses and supports job creation. In this case, Questmark Information Management, Inc. is a designated HHF company, but they were the successful awardee without application of the HHF preference.

Fiscal Note:

Funding for this item is included in the FY19 Adopted Budget. Therefore, no Fiscal Note is required in the Financial Policy Ord. 2014-1078.


Jerry Adams, Chief Procurement Officer
Finance/Strategic Procurement Division

Department Approval Authority Signature

ESTIMATED SPENDING AUTHORITY

Department	FY19	Out-Years	Total Amount
Municipal Courts Department	\$71,000.00	\$256,000.00	\$327,000.00

Amount of Funding:

\$245,000.00 - General Fund (1000)
\$ 82,000.00 - Municipal Courts Technology Fund (2207)
\$ 327,000.00 - Total

Contact Information:

Richard Morris/832-393-8736
Roy Korthals/832-393-8734
Ty Davis/832-393-9698

ATTACHMENTS:

Description	Type
<u>Affidavit</u>	Backup Material
<u>Campaign Finance Ordinance (Form A)</u>	Backup Material
<u>Fair Campaign Ordinance (Form B)</u>	Backup Material
<u>Form 1295 (Certificate of Interested Parties)</u>	Backup Material
<u>Pay or Play (POP 1)</u>	Backup Material
<u>Pay or Play (POP 2)</u>	Backup Material
<u>Statement of Residency</u>	Backup Material
<u>Conflict of Interest Questionnaire</u>	Backup Material
<u>Resolution of Contractor</u>	Backup Material
<u>MWBE Letter of Intent</u>	Backup Material
<u>Drug Policy No Safety Impact Positions</u>	Backup Material
<u>Drug Policy Compliance Agreement</u>	Backup Material
<u>Drug Policy Compliance Decalaration</u>	Backup Material
<u>COI and Endorsements</u>	Backup Material
<u>Recommendation Letter</u>	Backup Material
<u>Budget Funding Info</u>	Financial Information
<u>Bid Tab</u>	Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District K

Item Creation Date: 7/30/2018

MYR - TIRZ 09 South Post Oak FY19 Budget

Agenda Item#: 24.

Summary:

ORDINANCE relating to the Fiscal Affairs of the **SOUTH POST OAK REDEVELOPMENT AUTHORITY on behalf of REINVESTMENT ZONE NUMBER NINE, CITY OF HOUSTON, TEXAS (SOUTH POST OAK ZONE)**; approving the Fiscal Year 2019 Operating Budget for the Authority and the Fiscal Years 2019-2023 Capital Improvement Projects Budget for the Zone - **DISTRICT K - CASTEX-TATUM**

Background:

Ordinance approving the Fiscal Year 2019 Operating Budget for South Post Oak Redevelopment Authority and the Fiscal Years 2019 – 2023 Capital Improvement Plan (CIP) Budget for Reinvestment Zone Number Nine, City of Houston Texas (South Post Oak Zone).

RECOMMENDATION

City Council adopt an ordinance approving the Fiscal Year 2019 (FY19) Operating Budget for South Post Oak Redevelopment Authority and the Fiscal Years 2019 – 2023 Capital Improvement Plan (CIP) Budget for Reinvestment Zone Number Nine (South Post Oak Zone).

SPECIFIC EXPLANATION:

The Administration has undertaken a comprehensive review of proposed FY19 TIRZ budgets and recommends approval of the FY19 Operating Budget for South Post Oak Redevelopment Authority (the Authority) and the FY19 – FY23 CIP Budget for Reinvestment Zone Number Nine (the Zone).

- The total Operating Budget for FY19 is \$3,873,148, which includes \$398,148 for required fund transfers and \$3,475,000 for project costs.
- The FY19 – FY23 CIP Budget totals \$10,277,000, providing infrastructure to improve safety and mobility and to promote economic development.
- The FY19 Operating Budget includes \$2,733,500 for capital expenditures and \$40,500 for administration and overhead. The Authority must advise the Chief Development Officer of any budget amendments. Adjustments to the Project Costs in the FY19 Operating Budget that exceed \$400,000 require City Council approval.
- The FY19 Operating Budget does not include a municipal services charge.

Attachments: FY19 Operating Budget and FY19 – FY23 CIP Budget.

Andrew F. Icken, Chief Development Officer

Prior Council Action:

Ord. No. 2017-0682, 9/06/2017

Amount of Funding:

No funding required

Contact Information:

Gwendolyn F. Tillotson

Phone: (832) 393-0937

ATTACHMENTS:

Description

RCA TIRZ 09 South Post Oak FY19

CDO memo

TIRZ 09 South Post Oak FY19 Budget

Type

Signed Cover sheet

Backup Material

Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/21/2018

District K

Item Creation Date: 7/30/2018

MYR - TIRZ 09 South Post Oak FY19 Budget

Agenda Item#: 15.

Summary:

ORDINANCE relating to the fiscal affairs of the South Post Oak Redevelopment Authority on behalf of **REINVESTMENT ZONE NUMBER NINE**, City of Houston, Texas (South Post Oak Zone); approving the Fiscal Year 2019 Operating Budget for the Authority and the Fiscal Years 2019-2023 Capital Improvement Projects Budget for the Zone; containing findings and other provisions related to the foregoing subject; and declaring an emergency.

Background:

Ordinance approving the Fiscal Year 2019 Operating Budget for South Post Oak Redevelopment Authority and the Fiscal Years 2019 – 2023 Capital Improvement Plan (CIP) Budget for Reinvestment Zone Number Nine, City of Houston Texas (South Post Oak Zone).

RECOMMENDATION

City Council adopt an ordinance approving the Fiscal Year 2019 (FY19) Operating Budget for South Post Oak Redevelopment Authority and the Fiscal Years 2019 – 2023 Capital Improvement Plan (CIP) Budget for Reinvestment Zone Number Nine (South Post Oak Zone).

SPECIFIC EXPLANATION:

The Administration has undertaken a comprehensive review of proposed FY19 TIRZ budgets and recommends approval of the FY19 Operating Budget for South Post Oak Redevelopment Authority (the Authority) and the FY19 – FY23 CIP Budget for Reinvestment Zone Number Nine (the Zone).

- The total Operating Budget for FY19 is \$3,873,148, which includes \$398,148 for required fund transfers and \$3,475,000 for project costs.
- The FY19 – FY23 CIP Budget totals \$10,277,000, providing infrastructure to improve safety and mobility and to promote economic development.
- The FY19 Operating Budget includes \$2,733,500 for capital expenditures and \$40,500 for administration and overhead. The Authority must advise the Chief Development Officer of any budget amendments. Adjustments to the Project Costs in the FY19 Operating Budget that exceed \$400,000 require City Council approval.
- The FY19 Operating Budget does not include a municipal services charge.

Attachments: FY19 Operating Budget and FY19 – FY23 CIP Budget.

Andrew F. Icken, Chief Development Officer

Prior Council Action:

Ord. No. 2017-0682, 9/06/2017

Amount of Funding:

No funding required

Contact Information:

Gwendolyn F. Tillotson

Phone: (832) 393-0937

ATTACHMENTS:

Description

TIRZ 09 South Post Oak FY19 Budget

PCA 2017-682

Type

Backup Material

Backup Material



CITY OF HOUSTON

Sylvester Turner

Mayor

Andrew F. Icken
Chief Development Officer
P.O. Box 1562
Houston, Texas 77251-1562

T - 832-393-1064
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www.houstontx.gov

To: Mayor Sylvester Turner

From: Andrew F. Icken
Chief Development Officer

Date: August 27, 2018

Subject: TIRZ FY19 Budgets

TIRZ budgets to be presented to City Council for consideration and approval on August 29, 2018 are listed below:

TIRZ #9 – SOUTH POST OAK (DISTRICT K) was created to facilitate the development of a master-planned community that includes commercial, recreational, and residential improvements and amenities, of which 80% of the homes constructed would be available as affordable housing, currently known as Corinthian Pointe. The projected incremental property tax revenue is \$1.2M, which comprises \$732K from HISD and \$485K from City increment. The FY19 budget is \$3.9M and allocates \$3.5M for project costs. Projects include public infrastructure improvements to support affordable housing (\$800K), various intersection improvements along South Post Oak (\$600K), as well as corridor improvements, including roadways, bike lanes, and sidewalks. The budget also includes \$398K in transfers, the majority of which being for educational facilities (\$349K).

FY18 – FY22 CIP: \$10.7M

FY19 – FY23 CIP: \$10.3M

New projects included in FY19 – FY23:

Hiram Clark Rd Bus Stop-Crossing Improvements (\$477K)

The next group of budgets is scheduled for September 5th at which time I will submit a memo summarizing the key components of the budgets.

CITY OF HOUSTON
ECONOMIC DEVELOPMENT DIVISION
FISCAL YEAR 2019 BUDGET PROFILE

Fund Summary
Fund Name: **South Post Oak Redevelopment Authority**
TIRZ: **09**
Fund Number: **7557/50**

P R O F I L E	Base Year:	1997
	Base Year Taxable Value:	\$ 13,580
	Projected Taxable Value (TY2018):	\$ 209,138,154
	Current Taxable Value (TY2017):	\$ 201,094,379
	Acres:	411.23
	Administrator (Contact):	City of Houston
	Contact Number:	(832) 393-0985

N A R R A T I V E	Zone Purpose:
	Tax Increment Reinvestment Zone Number Nine, City of Houston, Texas was created to facilitate the development of a master-planned community that included commercial, recreational, and residential improvements and amenities, of which 80% of the homes constructed would be available as affordable housing.
	On October 7, 2015, the Authority amended its Plan, extending its boundaries and the duration of the Zone to December 31, 2045. The plan amendment expands the original vision of community enhancement by enlarging the Zone boundaries to include other underdeveloped parcels of land in the area and extending the duration of the Zone so that the increment generated by the redevelopment in the area annexed into the Zone can be utilized to fund additional public improvements in the area.

	Total Plan	Cumulative Expenses (to 6/30/17)	Variance
P R O J E C T P L A N	Capital Projects:		
	Public Improvements	\$ 10,230,661	\$ 5,018,905
	On-Site Detention	987,260	506,798
	Engineering for Public Improvements	1,300,134	659,698
	Noise Barrier Fencing on Public ROW	1,051,700	248,290
	Landscaping on Public ROW	1,014,822	184,835
	Economic Feasibility Study	18,130	18,130
	Neighborhood Park	758,960	166,457
	Regional Detention	263,360	90,852
	Overhead Pedestrian Walkway	110,000	-
	Streetscape and Neighborhood Entrances	718,740	41,694
	Geotechnical Report	13,950	3,100
	Control Staking	5,750	-
	Utility Clearing	62,500	-
	Land Acquisition	563,520	-
	Total Capital Projects	\$ 17,099,487	\$ 6,938,759
	Affordable Housing	9,103,456	-
	School & Education/Cultural Facilities	5,485,747	4,341,230
	Financing Costs	22,838,103	4,520,017
	Administration Costs/ Professional Services	1,560,000	929,917
	Creation Costs	367,562	367,562
	Total Project Plan	\$ 56,454,355	\$ 17,097,485
			\$ 39,356,870

	Additional Financial Data	FY2018 Budget	FY2018 Estimate	FY2019 Budget
D E B T	Debt Service	\$ -	\$ -	\$ 650,000
	Principal	\$ -	\$ -	\$ 650,000
	Interest	\$ -	\$ -	\$ -
	Balance as of 6/30/17		Projected Balance as of 6/30/18	Projected Balance as of 6/30/19
	Year End Outstanding (Principal)	\$ -	\$ -	\$ -
	Bond Debt	\$ -	\$ -	\$ -
	Bank Loan	\$ -	\$ -	\$ -
	Line of Credit	\$ -	\$ -	\$ -
	Developer Agreement	\$ -	\$ -	\$ -
	Other	\$ -	\$ -	\$ -

CITY OF HOUSTON
ECONOMIC DEVELOPMENT DIVISION
FISCAL YEAR 2019 BUDGET PROFILE

Fund Summary
Fund Name: South Post Oak Redevelopment Authority
TIRZ: 09
7557/50

TIRZ Budget Line Items	FY2018 Budget	FY2018 Estimate	FY2019 Budget
RESOURCES			
RESTRICTED Funds - Capital Projects	\$ 1,140,951	\$ 1,218,677	\$ 2,015,059
RESTRICTED Funds - Affordable Housing	\$ -	\$ -	\$ -
RESTRICTED Funds - Debt Service	\$ -	\$ -	\$ -
Beginning Balance	\$ 1,140,951	\$ 1,218,677	\$ 2,015,059
City tax revenue	\$ 373,681	\$ 479,434	\$ 485,049
County tax revenue	\$ -	\$ 49,228	\$ -
ISD tax revenue	\$ 532,896	\$ 565,732	\$ 532,896
ISD tax revenue - Pass Through	\$ 194,208	\$ 198,913	\$ 198,913
Community College tax revenue	\$ -	\$ -	\$ -
Incremental property tax revenue	\$ 1,100,785	\$ 1,293,307	\$ 1,216,858
	\$ -	\$ -	\$ -
Miscellaneous revenue	\$ -	\$ -	\$ -
COH TIRZ interest	\$ 1,256	\$ 588	\$ 1,256
Interest Income	\$ 924	\$ 924	\$ 924
Other Interest Income	\$ 2,180	\$ 1,512	\$ 2,180
	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -
Grant Proceeds	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -
Proceeds from Bank Loan	\$ -	\$ -	\$ -
	\$ 10,000,000	\$ -	\$ 8,000,000
Contract Revenue Bond Proceeds	\$ 10,000,000	\$ -	\$ 8,000,000
TOTAL AVAILABLE RESOURCES	\$ 12,243,916	\$ 2,513,496	\$ 11,234,097

CITY OF HOUSTON
ECONOMIC DEVELOPMENT DIVISION
FISCAL YEAR 2019 BUDGET PROFILE

Fund Summary
Fund Name: South Post Oak Redevelopment Authority
TIRZ: 09
7557/50

TIRZ Budget Line Items	FY2018 Budget	FY2018 Estimate	FY2019 Budget
EXPENDITURES			
Accounting	\$ 6,500	\$ 6,500	\$ 6,500
Administration Salaries & Benefits	\$ 36,000	\$ 15,000	\$ 18,000
Auditor	\$ 10,500	\$ 10,500	\$ 10,500
Bond Services/Trustee/Financial Advisor	\$ -	\$ -	\$ 3,500
Insurance	\$ 1,000	\$ 1,000	\$ 1,000
Office Administration	\$ -	\$ 1,000	\$ 1,000
TIRZ Administration and Overhead	\$ 54,000	\$ 34,000	\$ 40,500
Engineering Consultants	\$ -	\$ -	\$ -
Legal	\$ 20,000	\$ 5,000	\$ 15,000
Construction Audit	\$ -	\$ -	\$ -
Planning Consultants	\$ 30,000	\$ 48,573	\$ 36,000
Program and Project Consultants	\$ 50,000	\$ 53,573	\$ 51,000
Management consulting services	\$ 104,000	\$ 87,573	\$ 91,500
Capital Expenditures (See CIP Schedule)	\$ 1,850,000	\$ -	\$ 2,733,500
	\$ -	\$ -	\$ -
TIRZ Capital Expenditures	\$ 1,850,000	\$ -	\$ 2,733,500
	\$ -	\$ -	\$ -
Pyramid Residential Community Corporation			
Principal	\$ -	\$ -	\$ -
Interest	\$ -	\$ -	\$ -
Developer / Project Reimbursements	\$ -	\$ -	\$ -
Bond Debt Service (Series ##)			
Principal	\$ 366,000	\$ -	\$ 650,000
Interest	\$ -	\$ -	\$ -
System debt service	\$ 366,000	\$ -	\$ 650,000
TOTAL PROJECT COSTS	\$ 2,320,000	\$ 87,573	\$ 3,475,000
Payment/transfer to ISD - educational facilities	\$ 216,287	\$ 229,283	\$ 216,287
Payment/transfer to ISD - educational facilities (Pass Through)	\$ 194,208	\$ 132,609	\$ 132,609
Administration Fees:			
City	\$ 18,684	\$ 23,972	\$ 24,252
County	\$ -	\$ -	\$ -
ISD	\$ 25,000	\$ 25,000	\$ 25,000
HCC	\$ -	\$ -	\$ -
Affordable Housing:			
City	\$ -		
County	\$ -		
ISD to City of Houston	\$ -		
Municipal Services (Payable to COH)	\$ -	\$ -	\$ -
Total Transfers	\$ 454,179	\$ 410,864	\$ 398,148
Total Budget	\$ 2,774,179	\$ 498,437	\$ 3,873,148
RESTRICTED Funds - Capital Projects	\$ 9,469,737	\$ 2,015,059	\$ 7,360,949
RESTRICTED Funds - Affordable Housing	\$ -	\$ -	\$ -
RESTRICTED Funds - Debt Service	\$ -	\$ -	\$ -
Ending Fund Balance	\$ 9,469,737	\$ 2,015,059	\$ 7,360,949
Total Budget & Ending Fund Balance	\$ 12,243,916	\$ 2,513,496	\$ 11,234,097

Notes:

2019 - 2023 CAPITAL IMPROVEMENT PLAN
TIRZ 09
CIP by Project

CITY OF HOUSTON - TIRZ PROGRAM
Economic Development Division

Council District	CIP No.	Project	Fiscal Year Planned Appropriations								
			Through 2017	Projected 2018	2019	2020	2021	2022	2023	FY19 - FY23 Total	Cumulative Total (To Date)
K	T-0901	South Post Oak Intersections Improvements	\$ -	-	600,000	300,000	-	-	-	900,000	900,000
K	T-0902	Amphitheater and Open Market	\$ -	-	420,000	380,000	-	-	-	800,000	800,000
K	T-0903	West Orem Corridor Beautification	\$ -	-	150,000	150,000	150,000	-	-	450,000	450,000
K	T-0904	Affordable Housing Infrastructure	\$ -	-	800,000	1,275,000	1,025,000	500,000	-	3,600,000	3,600,000
K	T-0905	Thoroughfare and Roadway Improvements	\$ -	-	500,000	1,050,000	1,050,000	1,050,000	-	3,650,000	3,650,000
K	T-0906	Greenspace and Landscape Improvements	\$ -	-	50,000	50,000	50,000	50,000	50,000	250,000	250,000
K	T-0907	Street Signage and Wayfinding Graphics	\$ -	-	100,000	50,000	-	-	-	150,000	150,000
K	T-0908	Hiram Clarke Rd Bus Stop-Crossing Improvements*	\$ -	-	113,500	363,500	-	-	-	477,000	477,000
K	T-0999	Concrete Panel Replacement Program	\$ -	-	-	-	-	-	-	-	-
Totals			\$ -	\$ -	\$ 2,733,500	\$ 3,618,500	\$ 2,275,000	\$ 1,600,000	\$ 50,000	\$ 10,277,000	\$ 10,277,000

* NOTE: HPB Sims Bayou Greenway Project

** NOTE:

*** NOTE:

2019 - 2023 CAPITAL IMPROVEMENT PLAN
TIRZ 09
CIP by Sources of Funds

CITY OF HOUSTON - TIRZ PROGRAM
Economic Development Division

Source of Funds	Fiscal Year Planned Appropriations							FY19 - FY23 Total	Cumulative Total (To Date)
	Through 2017	Projected 2018	2019	2020	2021	2022	2023		
TIRZ Funds	-	-	2,733,500	3,618,500	2,275,000	1,600,000	50,000	10,277,000	10,277,000
City of Houston	-	-	-	-	-	-	-	-	-
Grants	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Project Total	-	-	2,733,500	3,618,500	2,275,000	1,600,000	50,000	10,277,000	10,277,000

Project: South Post Oak Intersections Improvements				City Council District		Key Map:				WBS.:		T-0901	
				Location: K		Geo. Ref.:							
				Served: K		Neighborhood:							
Description:	Three intersections located on S Post Oak at Orem, Hiram Clarke, and Post Oak. Improvements consist of new signalization, pedestrian havens, related sidewalk and median tip improvements, striping and graphics.			Operating and Maintenance Costs: (\$ Thousands)									
					2019	2020	2021	2022	2023	Total			
				Personnel	-	-	-	-	-	\$ -			
				Supplies	-	-	-	-	-	\$ -			
Justification:	Enhance safety and mobility. Promote area economic development.			Svcs. & Chgs.	-	-	-	-	-	\$ -			
				Capital Outlay	-	-	-	-	-	\$ -			
				Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
				FTEs						-			
Fiscal Year Planned Expenses													
Project Allocation		Projected Expenses thru 6/30/17	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	FY19 - FY23 Total	Cumulative Total (To Date)		
Phase													
1	Planning	-	20,000		-	-	-	-	-	\$ -	\$ -		
2	Acquisition	-	-	-	-	-	-	-	-	\$ -	\$ -		
3	Design	-	100,000	-	150,000	-	-	-	-	\$ 150,000	\$ 150,000		
4	Construction	-	100,000	-	450,000	300,000	-	-	-	\$ 750,000	\$ 750,000		
5	Equipment	-	-	-	-	-	-	-	-	\$ -	\$ -		
6	Close-Out	-	-	-	-	-	-	-	-	\$ -	\$ -		
7	Other	-	-	-	-	-	-	-	-	\$ -	\$ -		
		-	-	-	-	-	-	-	-	\$ -	\$ -		
		-	-	-	-	-	-	-	-	\$ -	\$ -		
		-	-	-	-	-	-	-	-	\$ -	\$ -		
		-	-	-	-	-	-	-	-	\$ -	\$ -		
Other Sub-Total:		-	-	-	-	-	-	-	-	\$ -	\$ -		
Total Allocations		\$ -	\$ 220,000	\$ -	\$ 600,000	\$ 300,000	\$ -	\$ -	\$ -	\$ 900,000	\$ 900,000		
Source of Funds													
TIRZ Funds		-	-	-	600,000	300,000	-	-	-	\$ 900,000	\$ 900,000		
City of Houston		-	-	-	-	-	-	-	-	\$ -	\$ -		
Grant Funds		-	-	-	-	-	-	-	-	\$ -	\$ -		
Other		-	-	-	-	-	-	-	-	\$ -	\$ -		
Total Funds		\$ -	\$ -	\$ -	\$ 600,000	\$ 300,000	\$ -	\$ -	\$ -	\$ 900,000	\$ 900,000		

*NOTE:

Project:	Amphitheater and Open Market	City Council District		Key Map:		WBS.:	T-0902	
		Location:	K	Geo. Ref.:				
		Served:	All	Neighborhood:				
Description:	Hard scape improvements within existing basin to provide seating and stage area to form amphitheater and open air market.	Operating and Maintenance Costs: (\$ Thousands)						
			2019	2020	2021	2022	2023	Total
		Personnel	-	-	-	-	-	\$ -
		Supplies	-	-	-	-	-	\$ -
Justification:	To better utilize existing public open space to create an environment to attract economic development.	Svcs. & Chgs.	-	-	-	-	-	\$ -
		Capital Outlay	-	-	-	-	-	\$ -
		Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		FTEs						

Fiscal Year Planned Expenses											
Project Allocation		Projected Expenses thru 6/30/17	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	FY19 - FY23 Total	Cumulative Total (To Date)
Phase											
1	Planning	-	20,000	-	20,000	-	-	-	-	\$ 20,000	\$ 20,000
2	Acquisition	-	-	-		-	-	-	-	\$ -	\$ -
3	Design	-	100,000	-	100,000	-	-	-	-	\$ 100,000	\$ 100,000
4	Construction	-	-		300,000	380,000	-	-	-	\$ 680,000	\$ 680,000
5	Equipment	-	-	-	-	-	-	-	-	\$ -	\$ -
6	Close-Out	-	-	-	-	-	-	-	-	\$ -	\$ -
7	Other	-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-		-	-	-	-	-	\$ -	\$ -
		-	-		-	-	-	-	-	\$ -	\$ -
		-	-		-	-	-	-	-	\$ -	\$ -
		-	-		-	-	-	-	-	\$ -	\$ -
Other Sub-Total:		-	-	-	-	-	-	-	-	\$ -	\$ -
Total Allocations		\$ -	\$ 120,000	\$ -	\$ 420,000	\$ 380,000	\$ -	\$ -	\$ -	\$ 800,000	\$ 800,000
Source of Funds											
TIRZ Funds		-	-	-	420,000	380,000	-	-	-	\$ 800,000	\$ 800,000
City of Houston			-	-	-	-	-	-	-	\$ -	\$ -
Grant		-	-	-		-	-	-	-	\$ -	\$ -
Other		-	-	-	-	-	-	-	-	\$ -	\$ -
Total Funds		\$ -	\$ -	\$ -	\$ 420,000	\$ 380,000	\$ -	\$ -	\$ -	\$ 800,000	\$ 800,000

Project:	West Orem Corridor Beautification	City Council District		Key Map:		WBS.:	T-0903	
		Location:	K	Geo. Ref.:				
		Served:	K	Neighborhood:				
Description:	Landscaping and other improvements to five esplanades west of South Post Oak on West Orem.	Operating and Maintenance Costs: (\$ Thousands)						
			2019	2020	2021	2022	2023	Total
		Personnel	-	-	-	-	-	\$ -
Justification:	There are currently five large medians along West Orem not being fully utilized. New beautification to attract economic development to the area.	Supplies	-	-	-	-	-	\$ -
		Svcs. & Chgs.	-	-	-	-	-	\$ -
		Capital Outlay	-	-	-	-	-	\$ -
		Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		FTEs						

Fiscal Year Planned Expenses

Project Allocation		Projected Expenses thru 6/30/17	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	FY19 - FY23 Total	Cumulative Total (To Date)
Phase											
1	Planning	-	20,000	-	20,000	-	-	-	-	\$ 20,000	\$ 20,000
2	Acquisition	-	-	-	-	-	-	-	-	\$ -	\$ -
3	Design	-	80,000	-	80,000	-	-	-	-	\$ 80,000	\$ 80,000
4	Construction	-	50,000	-	50,000	150,000	150,000	-	-	\$ 350,000	\$ 350,000
5	Equipment	-	-	-	-	-	-	-	-	\$ -	\$ -
6	Close-Out	-	-	-	-	-	-	-	-	\$ -	\$ -
7	Other	-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
Other Sub-Total:		-	-	-	-	-	-	-	-	\$ -	\$ -
Total Allocations		\$ -	\$ 150,000	\$ -	\$ 150,000	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ 450,000	\$ 450,000
Source of Funds											
TIRZ Funds		-	-	-	150,000	150,000	150,000	-	-	\$ 450,000	\$ 450,000
City of Houston		-	-	-	-	-	-	-	-	\$ -	\$ -
Grants		-	-	-	-	-	-	-	-	\$ -	\$ -
Other		-	-	-	-	-	-	-	-	\$ -	\$ -
Total Funds		\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ 450,000	\$ 450,000

Project:	Affordable Housing Infrastructure	City Council District		Key Map:		WBS.:	T-0904	
		Location:	K	Geo. Ref.:				
		Served:	K	Neighborhood:				
Description:	Infrastructure improvements including roadway, landscaping, drainage, water, and sewer improvements that support affordable housing projects.	Operating and Maintenance Costs: (\$ Thousands)						
			2019	2020	2021	2022	2023	Total
		Personnel	-	-	-	-	-	\$ -
		Supplies	-	-	-	-	-	\$ -
Justification:	Meet affordable housing requirements.	Svcs. & Chgs.	-	-	-	-	-	\$ -
		Capital Outlay	-	-	-	-	-	\$ -
		Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		FTEs						

Fiscal Year Planned Expenses											
Project Allocation		Projected Expenses thru 6/30/17	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	FY19 - FY23 Total	Cumulative Total (To Date)
Phase											
1	Planning	-	-	-	50,000	-	-	-	-	\$ 50,000	\$ 50,000
2	Acquisition	-	-	-	-	-	-	-	-	\$ -	\$ -
3	Design	-	300,000	-	250,000	75,000	25,000	-	-	\$ 350,000	\$ 350,000
4	Construction	-	500,000	-	500,000	1,200,000	1,000,000	500,000	-	\$ 3,200,000	\$ 3,200,000
5	Equipment	-	-	-				-	-	\$ -	\$ -
6	Close-Out	-	-	-	-	-	-	-	-	\$ -	\$ -
7	Other	-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
Other Sub-Total:		-	-	-	-	-	-	-	-	\$ -	\$ -
Total Allocations		\$ -	\$ 800,000	\$ -	\$ 800,000	\$ 1,275,000	\$ 1,025,000	\$ 500,000	\$ -	\$ 3,600,000	\$ 3,600,000
Source of Funds											
TIRZ Funds		-	-	-	800,000	1,275,000	1,025,000	500,000	-	\$ 3,600,000	\$ 3,600,000
City of Houston		-	-	-	-	-	-	-	-	\$ -	\$ -
Grants		-	-	-	-	-	-	-	-	\$ -	\$ -
Other		-	-	-	-	-	-	-	-	\$ -	\$ -
Total Funds		\$ -	\$ -	\$ -	\$ 800,000	\$ 1,275,000	\$ 1,025,000	\$ 500,000	\$ -	\$ 3,600,000	\$ 3,600,000

Project:	Thoroughfare and Roadway Improvements	City Council District		Key Map:		WBS.:	T-0905	
		Location:	K	Geo. Ref.:				
		Served:	K	Neighborhood:				
Description:	Corridor improvements including roadways, bike lanes, sidewalks, intersections, associated utilities and other rights-of-way enhancements.	Operating and Maintenance Costs: (\$ Thousands)						
			2019	2020	2021	2022	2023	Total
		Personnel	-	-	-	-	-	\$ -
		Supplies	-	-	-	-	-	\$ -
Justification:	Enhance safety and mobility. Promote economic development.	Svcs. & Chgs.	-	-	-	-	-	\$ -
		Capital Outlay	-	-	-	-	-	\$ -
		Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		FTEs						

Fiscal Year Planned Expenses											
Project Allocation		Projected Expenses thru 6/30/17	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	FY19 - FY23 Total	Cumulative Total (To Date)
Phase											
1	Planning	-	-	-	-	-			-	\$ -	\$ -
2	Acquisition	-	-	-	-	-	-	-	-	\$ -	\$ -
3	Design	-	300,000	-	300,000	50,000	50,000	50,000		\$ 450,000	\$ 450,000
4	Construction	-	-	-	200,000	1,000,000	1,000,000	1,000,000		\$ 3,200,000	\$ 3,200,000
5	Equipment	-	-	-	-	-	-	-	-	\$ -	\$ -
6	Close-Out	-	-	-	-	-	-	-	-	\$ -	\$ -
7	Other	-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
Other Sub-Total:		-	-	-	-	-	-	-	-	\$ -	\$ -
Total Allocations		\$ -	\$ 300,000	\$ -	\$ 500,000	\$ 1,050,000	\$ 1,050,000	\$ 1,050,000	\$ -	\$ 3,650,000	\$ 3,650,000
Source of Funds											
TIRZ Funds		-	-	-	500,000	1,050,000	1,050,000	1,050,000	-	\$ 3,650,000	\$ 3,650,000
City of Houston		-	-	-	-	-	-	-	-	\$ -	\$ -
Grants		-	-	-	-	-	-	-	-	\$ -	\$ -
Other		-	-	-	-	-	-	-	-	\$ -	\$ -
Total Funds		\$ -	\$ -	\$ -	\$ 500,000	\$ 1,050,000	\$ 1,050,000	\$ 1,050,000	\$ -	\$ 3,650,000	\$ 3,650,000

*NOTE:

Project: Greenspace and Landscape Improvements		City Council District		Key Map:		WBS.:	T-0906	
		Location: K		Geo. Ref.:				
		Served: K		Neighborhood:				
Description: Improvements to existing public greenspaces, landscaping, and amenities.		Operating and Maintenance Costs: (\$ Thousands)						
			2019	2020	2021	2022	2023	Total
Justification: Enhance community quality of life and promote economic development.		Personnel	-	-	-	-	-	\$ -
		Supplies	-	-	-	-	-	\$ -
		Svcs. & Chgs.	-	-	-	-	-	\$ -
		Capital Outlay	-	-	-	-	-	\$ -
		Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		FTEs						

Fiscal Year Planned Expenses

Project Allocation		Projected Expenses thru 6/30/17	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	FY19 - FY23 Total	Cumulative Total (To Date)
Phase											
1	Planning	-	-	-	-	-	-	-	-	\$ -	\$ -
2	Acquisition	-	-	-	-	-	-	-	-	\$ -	\$ -
3	Design	-	75,000	-	25,000	10,000	-	-	-	\$ 35,000	\$ 35,000
4	Construction	-	25,000	-	25,000	40,000	50,000	50,000	50,000	\$ 215,000	\$ 215,000
5	Equipment	-	-	-	-	-	-	-	-	\$ -	\$ -
6	Close-Out	-	-	-	-	-	-	-	-	\$ -	\$ -
7	Other	-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
Other Sub-Total:		-	-	-	-	-	-	-	-	\$ -	\$ -
Total Allocations		\$ -	\$ 100,000	\$ -	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000	\$ 250,000
Source of Funds											
TIRZ Funds		-	-	-	50,000	50,000	50,000	50,000	50,000	\$ 250,000	\$ 250,000
City of Houston		-	-	-	-	-	-	-	-	\$ -	\$ -
Grants		-	-	-	-	-	-	-	-	\$ -	\$ -
Other		-	-	-	-	-	-	-	-	\$ -	\$ -
Total Funds		\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000	\$ 250,000

Project:	Street Signage and Wayfinding Graphics	City Council District		Key Map:		WBS.:	T-0907	
		Location:	K	Geo. Ref.:				
		Served:	K	Neighborhood:				
Description:	Upgrades, improvements, and repairs to street signs. Provide wayfinding graphics for area attractions and amenities.	Operating and Maintenance Costs: (\$ Thousands)						
			2019	2020	2021	2022	2023	Total
		Personnel	-	-	-	-	-	\$ -
		Supplies	-	-	-	-	-	\$ -
Justification:	Establish community identity. Promote economic development.	Svcs. & Chgs.	-	-	-	-	-	\$ -
		Capital Outlay	-	-	-	-	-	\$ -
		Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		FTEs						

Fiscal Year Planned Expenses											
Project Allocation		Projected Expenses thru 6/30/17	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	FY19 - FY23 Total	Cumulative Total (To Date)
Phase											
1	Planning	-	-	-	-	-	-	-	-	\$ -	\$ -
2	Acquisition	-	-	-				-	-	\$ -	\$ -
3	Design	-	50,000	-	50,000	-			-	\$ 50,000	\$ 50,000
4	Construction	-	50,000	-	50,000	50,000			-	\$ 100,000	\$ 100,000
5	Equipment	-	-	-				-	-	\$ -	\$ -
6	Close-Out	-	-	-	-	-	-	-	-	\$ -	\$ -
7	Other	-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
		-	-	-	-	-	-	-	-	\$ -	\$ -
Other Sub-Total:		-	-	-	-	-	-	-	-	\$ -	\$ -
Total Allocations		\$ -	\$ 100,000	\$ -	\$ 100,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000
Source of Funds											
TIRZ Funds		-	-	-	100,000	50,000	-	-	-	\$ 150,000	\$ 150,000
City of Houston		-	-	-	-	-	-	-	-	\$ -	\$ -
Grants		-	-	-	-	-	-	-	-	\$ -	\$ -
Other		-	-	-	-	-	-	-	-	\$ -	\$ -
Total Funds		\$ -	\$ -	\$ -	\$ 100,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000

Project: Hiram Clarke Rd Bus Stop-Crossing Improvements*				City Council District		Key Map:			WBS.:	T-0908			
				Location:		K		Geo. Ref.:					
				Served:				Neighborhood:					
Description:	New safe crosswalks to connect METRO bus stops and Center Point trails along three stops on Hiram Clarke Rd. This project is part of the Houston Parks Board Sims Bayou Greenways program.			Operating and Maintenance Costs: (\$ Thousands)									
					2019	2020	2021	2022	2023	Total			
				Personnel	-	-	-	-	-	\$ -			
				Supplies	-	-	-	-	-	\$ -			
Justification:	The new Center Point trail will directly connect to the three METRO bus stops on the west side of Hiram Clarke. Currently, there are limited safe pedestrian crossing points across Hiram Clarke.			Svcs. & Chgs.	-	-	-	-	-	\$ -	\$ -		
				Capital Outlay	-	-	-	-	-	\$ -	\$ -		
				Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
				FTEs							-		
				Fiscal Year Planned Expenses									
Project Allocation		Projected Expenses thru 6/30/17	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	FY19 - FY23 Total	Cumulative Total (To Date)		
Phase													
1	Planning	-	-	-	-	-	-	-	-	\$ -	\$ -		
2	Acquisition	-	-	-	-	-	-	-	-	\$ -	\$ -		
3	Design	-	-	-	68,000	-	-	-	-	\$ 68,000	\$ 68,000		
4	Construction	-	-	-	32,000	350,000	-	-	-	\$ 382,000	\$ 382,000		
5	Equipment	-	-	-	-	-	-	-	-	\$ -	\$ -		
6	Close-Out	-	-	-	-	-	-	-	-	\$ -	\$ -		
7	Other	-	-	-	13,500	13,500	-	-	-	\$ 27,000	\$ 27,000		
		-	-	-	-	-	-	-	-	\$ -	\$ -		
		-	-	-	-	-	-	-	-	\$ -	\$ -		
		-	-	-	-	-	-	-	-	\$ -	\$ -		
		-	-	-	-	-	-	-	-	\$ -	\$ -		
Other Sub-Total:		-	-	-	13,500	13,500	-	-	-	\$ 27,000	\$ 27,000		
Total Allocations		\$ -	\$ -	\$ -	\$ 113,500	\$ 363,500	\$ -	\$ -	\$ -	\$ 477,000	\$ 477,000		
Source of Funds													
TIRZ Funds		-	-	-	113,500	363,500	-	-	-	\$ 477,000	\$ 477,000		
City of Houston		-	-	-	-	-	-	-	-	\$ -	\$ -		
Grants		-	-	-	-	-	-	-	-	\$ -	\$ -		
Other		-	-	-	-	-	-	-	-	\$ -	\$ -		
Total Funds		\$ -	\$ -	\$ -	\$ 113,500	\$ 363,500	\$ -	\$ -	\$ -	\$ 477,000	\$ 477,000		

Project: Concrete Panel Replacement Program				City Council District		Key Map:		WBS.:		T-0999			
				Location:		K						Geo. Ref.:	
				Served:		K						Neighborhood:	
Description:	Street maintenance program.			Operating and Maintenance Costs: (\$ Thousands)									
					2019	2020	2021	2022	2023	Total			
				Personnel	-	-	-	-	-	\$ -			
				Supplies	-	-	-	-	-	\$ -			
Justification:	Mobility improvements to extend life of roads.			Svcs. & Chgs.	-	-	-	-	-	\$ -			
				Capital Outlay	-	-	-	-	-	\$ -			
				Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
				FTEs						-			
Fiscal Year Planned Expenses													
Project Allocation		Projected Expenses thru 6/30/17	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	FY19 - FY23 Total	Cumulative Total (To Date)		
Phase													
1	Planning	-	-	-	-	-	-	-	-	\$ -	\$ -		
2	Acquisition	-	-	-	-	-	-	-	-	\$ -	\$ -		
3	Design	-	10,000	-	-	-	-	-	-	\$ -	\$ -		
4	Construction	-	50,000	-	-	-	-	-	-	\$ -	\$ -		
5	Equipment	-	-	-	-	-	-	-	-	\$ -	\$ -		
6	Close-Out	-	-	-	-	-	-	-	-	\$ -	\$ -		
7	Other	-	-	-	-	-	-	-	-	\$ -	\$ -		
		-	-	-	-	-	-	-	-	\$ -	\$ -		
		-	-	-	-	-	-	-	-	\$ -	\$ -		
		-	-	-	-	-	-	-	-	\$ -	\$ -		
		-	-	-	-	-	-	-	-	\$ -	\$ -		
Other Sub-Total:		-	-	-	-	-	-	-	-	\$ -	\$ -		
Total Allocations													
		\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Source of Funds													
TIRZ Funds		-	-	-	-	-	-	-	-	\$ -	\$ -		
City of Houston		-	-	-	-	-	-	-	-	\$ -	\$ -		
Grants		-	-	-	-	-	-	-	-	\$ -	\$ -		
Other		-	-	-	-	-	-	-	-	\$ -	\$ -		
Total Funds		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District C

Item Creation Date: 7/10/2018

PLN – Amendment to Ordinance 2018-317 establishing the north and south sides of the 1700 and 1800 block of Maryland Street within the City of Houston as a Special Minimum Lot Size Requirement Area

Agenda Item#: 25.

Summary:

ORDINANCE amending Ordinance No. 2018-317 establishing the north and south sides of the 1700-1800 blocks of Maryland Street, within the City of Houston, Texas, as a special minimum lot size block to replace the Exhibit "A" attached thereto - **DISTRICT C - COHEN**

Background:

The Planning and Development Department recommends approval to amend Ordinance 2018-317, passed by City Council on April 18, 2018, by replacing Exhibit "A" of Ordinance 2018-317 with a new Exhibit "A" to correct errors and omissions to the description of properties affected by the ordinance. Ordinance 2018-317 established a Special Minimum Lot Size Requirement Area for the 1700 and 1800 block of Maryland Street, north and south sides.

The Planning and Development Department recommends City Council approval of the amendment to Ordinance 2018-317.

Patrick Walsh, P.E.
Director
Planning and Development Department

Prior Council Action:

N/A

Amount of Funding:

N/A

Contact Information:

Davonte Caldwell
Phone: 832-393-6568

ATTACHMENTS:

Description	Type
-------------	------



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District D, District I

Item Creation Date: 10/23/2017

20WR24A - Petition Addit (142.381) Harris County MUD
No. 460

Agenda Item#: 26.

Summary:

ORDINANCE consenting to the addition of 142.381 acres of land to **HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 460**, for inclusion in its District; granting consent to exercise road powers and authorizing the District to issue bonds for road facilities within the City of Houston, Texas, subject to certain conditions - **DISTRICTS D - BOYKINS and I - GALLEGOS**

Background:

SUBJECT: Petition for the City's consent to the addition of two (2) tracts of land totaling 142.381 acres to Harris County Municipal Utility District No. 460 (Key Map No. 574-R, 574-N) and granting road powers to the addition.

RECOMMENDATION: Petition for the City's consent to the addition of two (2) tracts of land totaling 142.381 acres to Harris County Municipal Utility District No. 460 and the granting of road powers to the addition be approved.

SPECIFIC EXPLANATION: Harris County Municipal Utility District No. 460 was created by an act of the Texas Legislature in 2005 and currently consists of 448.94 acres within Harris County. The district is within the corporate limits of the City of Houston and has petitioned the City for consent to add two (2) tracts of undeveloped land, totaling 142.381, to the district. The tracts are proposed be developed as single family residential property and will have park, detention and open space. The proposed annexation tracts are located in the vicinity of Almeda-Genoa Road, Mykawa Road, East Orem Drive, and Telephone Road.

The Utility District Review Committee has evaluated the application with respect to wastewater collection and treatment, potable water distribution, storm water conveyance, and other public services.

The district is provided with wastewater treatment by the City of Houston's Chocolate Bayou Wastewater Treatment Plant. The proposed annexation tracts will be served by the City's Sims Bayou Wastewater Treatment Plant. Potable water is provided by the City.

The nearest major drainage facility for Harris County Municipal Utility District No. 460 is Clear Creek, which flows to Clear Lake, and then into Galveston Bay. The annexation tracts are not in the 100 year floodplain nor within the 500 year floodplain.

City Council granted road powers to the existing land in the district by Ordinance 2015-738 so that

the district could issue bonds for the purpose of purchasing, constructing, or otherwise acquiring certain road facilities. The district requests road powers for the land to be added and agrees to the terms and conditions of the consent ordinance annexing 142.381 acres and granting road powers. By executing the Petition for Consent, the district has acknowledged that all plans for the construction of water conveyance, wastewater collection, and storm water collection systems within the district must be approved by the City of Houston prior to their construction. The Utility District Review Committee recommends that the subject petition be approved.

Carol Ellinger Haddock, P.E.
Director
Houston Public Works

Contact Information:

Yvonne Forrest
Deputy Director
Phone: (832) 395-2847

ATTACHMENTS:

Description

revised Cover Sheet
Maps

Type

Signed Cover sheet
Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:
District D, District I
Item Creation Date: 10/23/2017

20WR24A - Petition Addit (142.381) Harris County MUD No. 460

Agenda Item#:

Background:

SUBJECT: Petition for the City's consent to the addition of two (2) tracts of land totaling 142.381 acres to Harris County Municipal Utility District No. 460 (Key Map No. 574-R, 574-N) and granting road powers to the addition.

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The Utility District Review Committee recommends that the subject petition be approved.


Carol Ellinger Haddock, P.E.

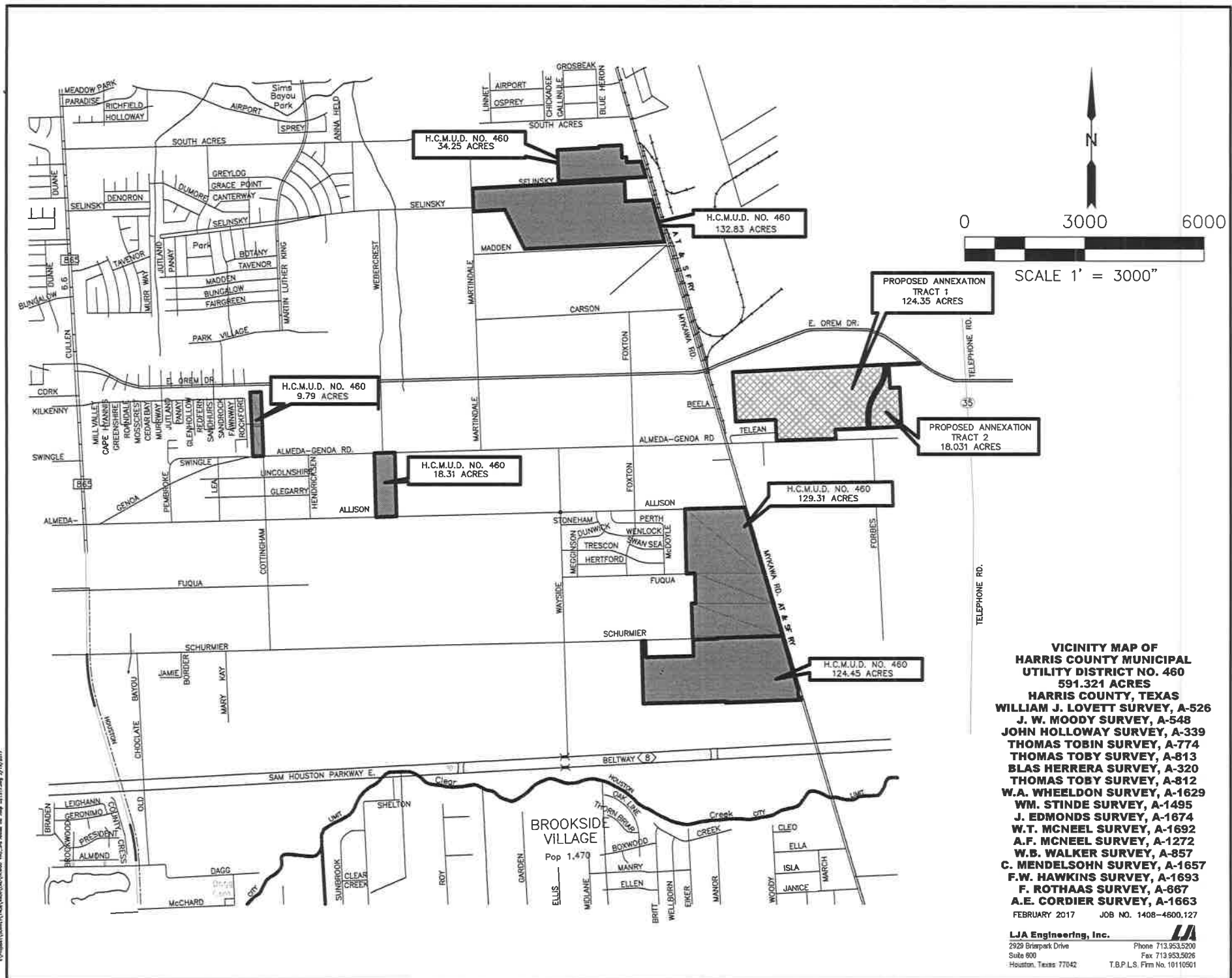
Director
Houston Public Works

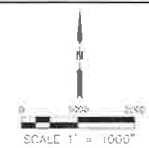
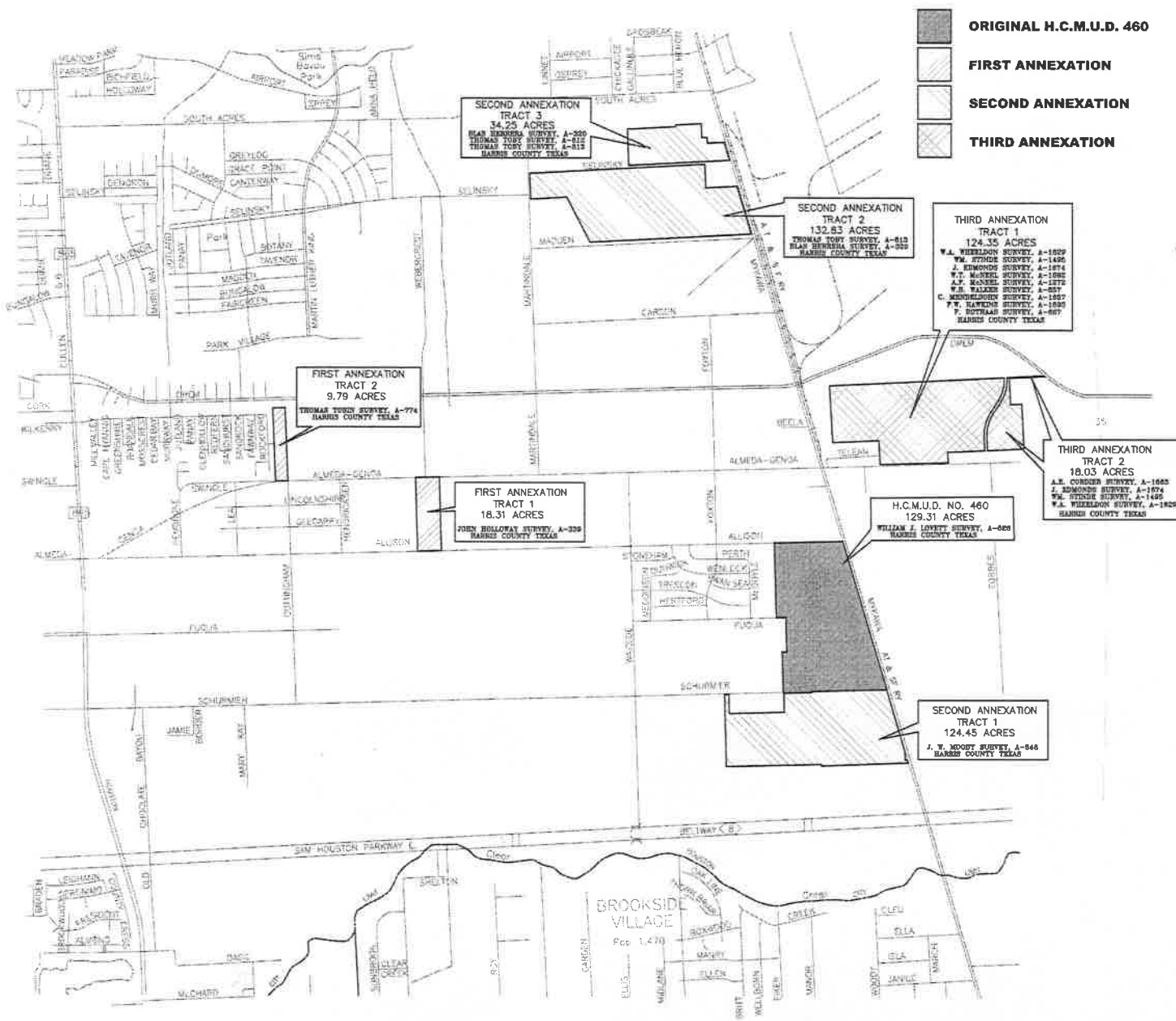
Contact Information:

Yvonne Forrest
Deputy Director
Phone: (832) 395-2847

ATTACHMENTS:

Description	Type
Maps	Backup Material
Application	Backup Material
Petition	Backup Material
Backup Documents	Backup Material
Fact Sheet	Backup Material





NOTE:
THIS MAP WAS PREPARED UNDER THE ACTS AND REGULATIONS DOES NOT REPRESENT THE RESULTS OF AN ORIGINAL SURVEY, AND IS NOT TO BE USED TO QUANTIFY OR ESTABLISH RIGHTS IN REAL PROPERTY. THESE RIGHTS ARE INTERESTS MAPLED OR ESTABLISHED BY THE CHAIN OF RECORDATION OF THE BOUNDARY OF THE POLITICAL SUBDIVISION FOR WHICH IT WAS PREPARED.

SURVEYORS CERTIFICATE

I, Keith W. Moore, a Registered Professional Land Surveyor, do hereby certify that this map represents the boundaries of Harris County Municipal Utility District No. 460 to the best of my knowledge. (See Note 1)

Keith W. Moore
Keith W. Moore, SLS
Texas Registration No. 4937
January 22, 2017



Harris County Municipal Utility District No. 460

ORIGINAL TRACT "A"	61.31 ACRES
ORIGINAL TRACT "B"	68.00 ACRES
TOTAL	129.31 ACRES

First Annexation	
TRACT 1	18.31 ACRES
TRACT 2	9.79 ACRES
ANNEXATION TOTAL	28.10 ACRES

Second Annexation	
TRACT 1	124.45 ACRES
TRACT 2	132.83 ACRES
TRACT 3	34.25 ACRES
ANNEXATION TOTAL	291.53 ACRES

Third Annexation	
TRACT 1	124.35 ACRES
TRACT 2	18.03 ACRES
ANNEXATION TOTAL	142.38 ACRES

GRAND TOTAL 591.32 ACRES

REVISED BOUNDARY MAP OF HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 460 591.32 ACRES

IN THE
WILLIAM J. LOVETT SURVEY, A-526
J. W. MOODY SURVEY, A-548
JOHN HOLLOWAY SURVEY, A-339
THOMAS TOBY SURVEY, A-774
THOMAS TOBY SURVEY, A-813
BLAS HERRERA SURVEY, A-320
THOMAS TOBY SURVEY, A-812
W.A. WHEELDON SURVEY, A-1629
W.M. STINDE SURVEY, A-1495
J. EDMONDS SURVEY, A-1674
W.T. MCNEEL SURVEY, A-1692
A.F. MCNEEL SURVEY, A-1677
W.B. WALKER SURVEY, A-857
C. MENDELSON SURVEY, A-1657
F.W. HAWKINS SURVEY, A-1693
F. ROTHAAUS SURVEY, A-667
A.E. CORDIER SURVEY, A-1663
HARRIS COUNTY, TEXAS

JANUARY 2017 09 NO. 1408-4500 127

LJA Engineering, Inc.
2929 Briarpark Drive Suite 600
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5205
T.B.P.L.E. Firm No. 10110501

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The user should consult the Flood Insurance Study for more detailed information.

To obtain more detailed information in areas where Flood Insurance Study (FIS) and Floodway Data have been determined, users are encouraged to consult the Flood Profiles and Floodway Data tables contained within the Flood Insurance Study report for the area. The Flood Insurance Study report also contains the FIS and Floodway Data tables for the area. These FIS and Floodway Data tables are provided for informational purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS should be used in conjunction with the FIS for purposes of construction and/or flood management.

Coastal Flood Elevation (CFE) shown on this map apply only to landward of 0.2 North American Vertical Datum (NAVD83) elevations of the FIS. It should be noted that coastal flood elevations may also be presented in the Summary of Significant Events table in the Flood Insurance Study report for the community. Elevations shown in the Summary of Significant Events table should be used for construction, and/or flood management purposes when they are higher than the elevations shown on the FIS.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for the area.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures in the jurisdiction.

The projection used in the preparation of this map is Universal Transverse Mercator (UTM) zone 16. The horizontal datum is NAD83. The vertical datum is NAVD83. Differences in datum, projection, or UTM zones used in the production of FISs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIS.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be converted to structures and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geospatial Survey of 1928 and the North American Vertical Datum of 1988, visit the National Geospatial Survey website at www.ngs.noaa.gov or contact the National Geospatial Survey at the following address:

National Geospatial Survey
National Geospatial Survey, NGA
4400 Central Expressway
11th Floor
Ft. Belvoir, Maryland 20710
(202) 773-3242

To obtain elevation, description, and/or location information for benchmarks shown on this map, please contact the Information Services Branch of the National Geospatial Survey at (202) 773-3242, or visit their website at www.ngs.noaa.gov.

Base map information shown on this FIS was provided in digital format by the Harris County Flood Control District and was revised and enhanced by Harris County.

Geographic data shown on this map are based on the best data available at the time of publication. Because changes due to construction or other activities may have occurred after this map was published, map users should contact appropriate community officials to verify current geographic data.

Please refer to the necessary printed map index for an overview map of the county showing the extent of map panels. Community map users should also be aware of the fact that the community map index is a listing of the panels on which each community is located.

An accompanying Flood Insurance Study report, Letters of Map Revision or Letters of Map Amendment, covering portions of this panel, and digital versions of this FIS, may be available. Contact the FEMA Map Service Center at the following phone numbers and internet address for information on all released products available from FEMA.

Phone: 800-358-9515
FAX: 800-358-9520
www.fema.gov

If you have questions about this map or otherwise concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2527) or visit the FEMA website at www.fema.gov.

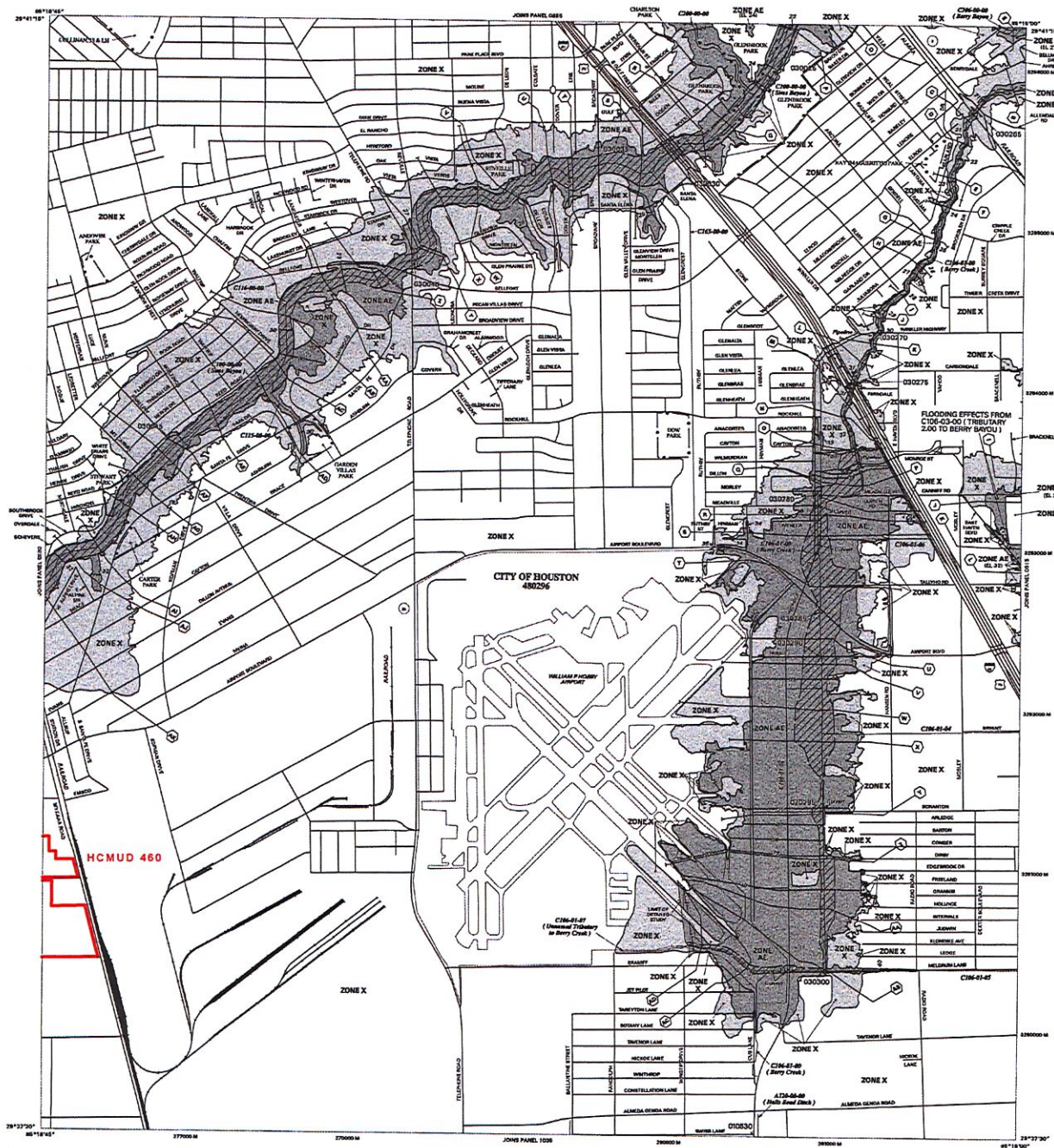
This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIS for this jurisdiction. The floodways and floodways that were transferred from the previous FIS have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report may reflect stream channel distances that differ from what is shown on this map.

Vertical Datum Adjustment due to subsidence is the 2001 adjustment.

Benchmarks shown on this map were provided by either Harris County or the National Geospatial Survey. To obtain elevation, description, and location information for benchmarks provided by Harris County, please contact the Harris County Office of the Public Information Department at (713) 863-3300 or visit their website at www.harriscounty-texas.gov. For information regarding the benchmarks provided by the National Geospatial Survey, please see note above.

Some bridges and other structures shown on the detailed studied streams are not labeled. See corresponding flood profile for appropriate name.

ATTACHMENT 10	
HCMUD 460	
FIRM PANEL	
48201C0895L	
DATE: 10/18/2007	



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT

The 1% Annual Chance Flood (ACF) is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Areas (SFHA) are the areas subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zone A, AE, AH, AO, AR, AV, and V. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

No base flood elevations determined.

Zone A: Base Flood Elevation determined.

Zone AE: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AH: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AO: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AR: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AV: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone V: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone B: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone C: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone E: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone F: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone G: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone H: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone I: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone J: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone K: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone L: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone M: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone N: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone O: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone P: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone Q: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone R: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone S: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone T: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone U: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone V: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone W: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone X: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone Y: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone Z: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AA: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AB: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AC: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AD: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AE: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AF: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AG: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AH: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AI: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AJ: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AK: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AL: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AM: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AN: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AO: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AP: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AQ: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AR: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AS: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AT: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AU: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AV: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AW: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AX: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AY: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone AZ: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BA: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

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Zone BG: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

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Zone BM: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BN: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BO: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BP: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BQ: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BR: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BS: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BT: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BU: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BV: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BW: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BX: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BY: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone BZ: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CA: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CB: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CC: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CD: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CE: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CF: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CG: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CH: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CI: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CJ: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CK: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CL: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CM: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CN: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CO: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CP: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CQ: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CR: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CS: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CT: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CU: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CV: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CW: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CX: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CY: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone CZ: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DA: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DB: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DC: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DD: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DE: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DF: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DG: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DH: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DI: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DJ: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DK: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DL: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DM: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DN: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DO: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DP: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DQ: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DR: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DS: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DT: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DU: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DV: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DW: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DX: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DY: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone DZ: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EA: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EB: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EC: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone ED: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EE: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EF: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EG: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EH: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EI: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EJ: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EK: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EL: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EM: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EN: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EO: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EP: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EQ: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone ER: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone ES: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone ET: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EU: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EV: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EW: Flood depths of 1 to 3 feet (mostly areas of ponding); base flood elevations determined.

Zone EX:

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map responsibility should be consulted for precise details of additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevation (BFE) and/or Floodway Data have been determined, users are encouraged to consult the Flood Protection and Floodway Data Tables contained within the Flood Insurance Study (FIS) report, also accompanying this FIS. Users should be aware that BFE shown on the FIS map represent rounded whole foot elevations. These BFE are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS should be used in conjunction with the FIS for purposes of construction and/or floodplain management.

Coastal Base Flood Elevation (CBFE) shown on this map apply only to land within 10 feet of the National Oceanic Vertical Datum. Users of this FIS should be aware that coastal flood elevations may also be provided in the Summary of Significant Floodway Data Tables for the community. Floodway data shown in the Summary of Significant Floodway Data Tables should be used for construction, flood plain management purposes when they are higher than the elevations shown on this FIS.

Boundaries of the floodways were computed at twice sections and interpreted between sections. The floodways were based on hydraulic considerations with regard to encroachments of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this community.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.A "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures in this jurisdiction.

The projection used in the preparation of this map is Universal Transverse Mercator (UTM) zone 16. The horizontal datum is NAD83. GRS80 ellipsoid. Differences in datum, projection or UTM zone used in the preparation of FIS for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIS.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to available and accurate elevations referenced to the same vertical datum. For information regarding conversion between the North American Vertical Datum of 1988 and the North American Vertical Datum of 1955, visit the National Geospatial Survey website at www.ngs.noaa.gov or contact the National Geospatial Survey at the following address:

Special Reference System Division
National Geospatial Survey, MDA
Silver Spring, Maryland 20910
12350
Silver Spring, Maryland 20910
(301) 715-2242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geospatial Survey at (301) 715-2242, or visit their website at www.ngs.noaa.gov.

Base map information shown on the FIS was provided in digital format by the Harris Convention Area Council and was revised and enhanced by Harris County.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexation or the annexation may have occurred prior to this map, users should consult appropriate corporate records to verify correct corporate limits.

Please refer to the separate street map index for an overview map of the county showing the layout of map sheets. Community map responsibility addresses and a listing of communities within National Flood Insurance Program limits for each community as well as a listing of the panels on which such community is located.

An accompanying Flood Insurance Study report, Letters of Map Revision or Letters of Map Amendment (revoking portions of the map), and digital versions of this FIS, may be available. Contact the FEMA Map Service Center at the following phone numbers and Internet address for information on or related products available from FEMA.

Phone: 800-350-9615
FAX: 800-350-9622
www.fema.gov

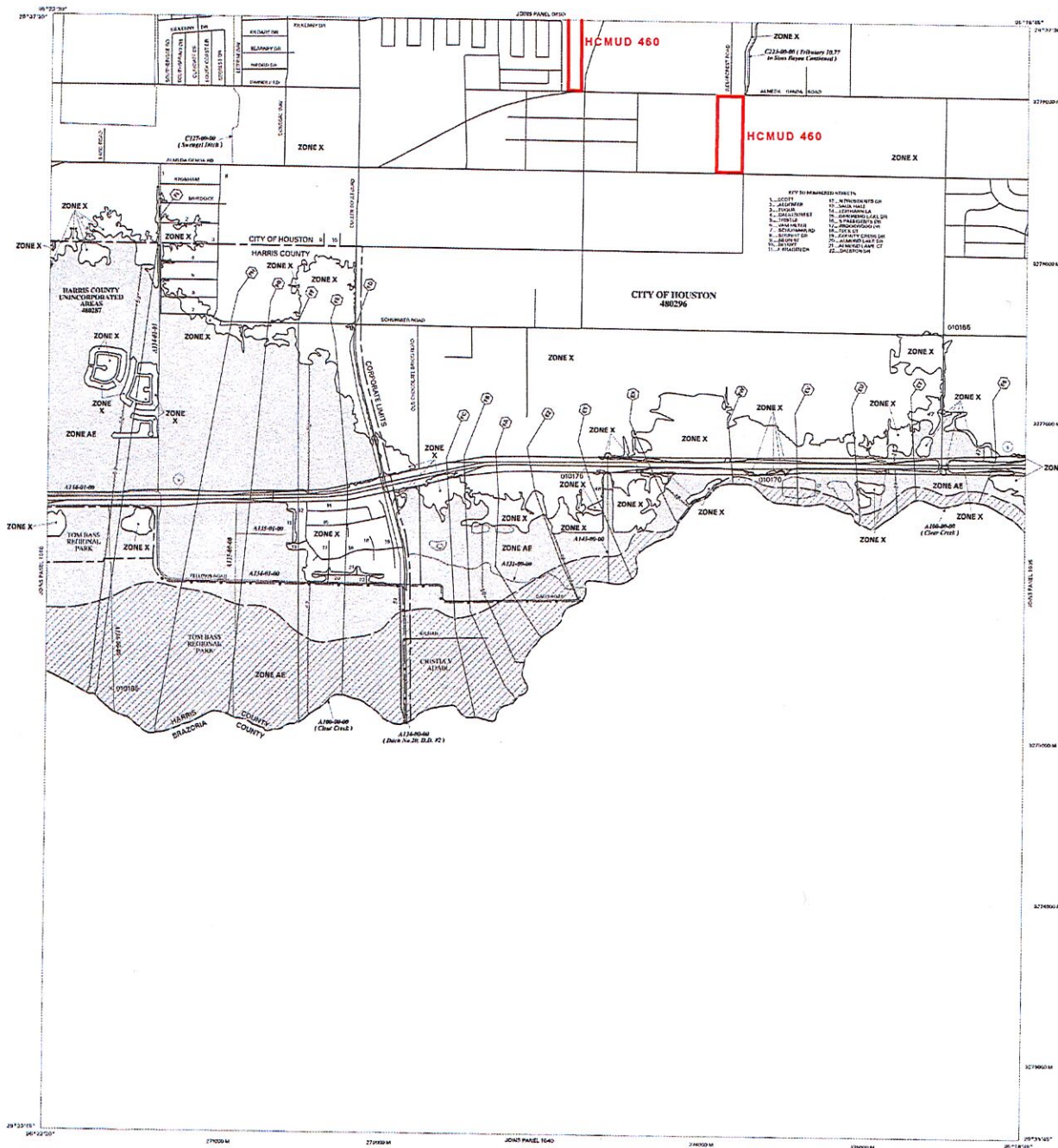
If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2827) or visit the FEMA website at www.fema.gov.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIS for this jurisdiction. The floodway and floodway data shown on this map were derived from the previous FIS and have been adjusted to conform to these new stream channel configurations. As a result, the Flood Protection and Floodway Data Tables in the Flood Insurance Study report may reflect stream channel alignments that differ from what is shown on this map.

Vertical Datum Adjustment due to substance is the 2001 adjustment.

Benchmarks shown on this map were provided by Harris County or the National Geospatial Survey. To obtain elevation, description, and location information for benchmarks provided by Harris County, please contact the Permit Office of the Public Information Department at (713) 856-2200 or visit their website at <http://www.harriscountytx.gov>. For information regarding the benchmarks provided by the National Geospatial Survey, please see note above.

Name, address, and other structures shown on the detailed street maps are not included. See accompanying flood profile for approximate name.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT

The 1% annual chance flood (100-year flood) also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Areas in this map are shown in Figure 1-2, which shows the Base Flood Elevation (BFE) for the entire community. The BFE is the elevation of the water surface of the flood.

Zone A: No base flood elevations determined.

Zone AE: Base flood elevations determined.

Zone AF: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone AR: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone AV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone BV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone FV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone GV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone HV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone IV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone JV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone KV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone LV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone MV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone NV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone OV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone PV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone QV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone RV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone SV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone TV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone UV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone XV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone YV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone ZV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone AA: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

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Zone BR: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

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Zone CG: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CH: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CI: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CJ: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CK: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CL: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CM: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CN: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CO: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CP: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CQ: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CR: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CS: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CT: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CU: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CW: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CX: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CY: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone CZ: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DA: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DB: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DC: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DD: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DE: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DF: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DG: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DH: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DI: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DJ: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DK: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DL: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DM: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DN: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DO: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DP: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DQ: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DR: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DS: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DT: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DU: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DW: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DX: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DY: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone DZ: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EA: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EB: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EC: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone ED: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EE: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EF: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EG: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EH: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EI: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EJ: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EK: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EL: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EM: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EN: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EO: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EP: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EQ: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone ER: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone ES: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone ET: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EU: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EV: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EW: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EX: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EY: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone EZ: Flood depths of 1 to 3 feet. Low-lying areas of floodway (near flood elevations).

Zone FA



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District C

Item Creation Date: 7/25/2018

20JLB28 PES / CivilTech Engineering, Inc.

Agenda Item#: 27.

Summary:

ORDINANCE appropriating \$2,065,092.00 out of Street & Traffic Control and Storm Drainage DDSRF and approving and authorizing Professional Engineering Services Contract between the City of Houston and **CIVILTECH ENGINEERING, INC** for Drainage and Paving Improvements for Cottage Grove East; providing funding for CIP Cost Recovery relating to construction of facilities financed by the Street & Traffic Control and Storm Drainage DDSRF - **DISTRICT C - COHEN**

Background:

SUBJECT: Professional Engineering Services Contract between the City and CivilTech Engineering, Inc. for Drainage and Paving Improvements for Cottage Grove East.

RECOMMENDATION: An ordinance approving a Professional Engineering Services Contract with CivilTech Engineering, Inc. and appropriate funds.

PROJECT NOTICE/JUSTIFICATION: This project is part of the Storm Drainage Capital Improvement Plan (CIP) and is required to improve street drainage.

DESCRIPTION/SCOPE: This project consists of the design of storm drainage improvements, concrete paving, curbs, sidewalks, driveways and underground utilities.

LOCATION: The project area is generally bound by White Oak Bayou on the north, IH-10 Frontage Road on the south, Shepherd Drive on the east and TC Jester Blvd on the west. The project is located in Key Map Grids 492C, 492D, 492G, 492H.

SCOPE OF CONTRACT AND FEE: Under the scope of the Contract, the Consultant will perform Phase I - Preliminary Design, Phase II – Final Design, Phase III -Construction Phase Services and Additional Services. Basic Services Fee for Phase I is based on cost of time and materials with not-to-exceed agreed upon amount. The Basic Services fees for Phase II and Phase III are based on a negotiated lump sum amount. The total Basic Services appropriation is \$1,188,589.00.

The Contract also includes certain Additional Services to be paid either as lump sum or on a reimbursable basis. The Additional Services include Review Pre-Engineering Report, Impact and Mitigation Analysis, Drainage Impact Study, Public Meetings, Engineering Design Report, Technical Review Committee, Record of Decision and Action Items, Topographic Survey, Right-

of-Way Survey, Monumentation Setting/ Recovery, Property/ ROW Acquisition Survey, Subsurface Utility Engineering, GIS Digital Deliverable, Geotechnical Investigation, Phase 1 Environmental Site Assessment, Cultural/ Historical Survey, Tree Removal/ Protection Plan, Traffic Control Plan, Signing and Pavement Marking Plan, Storm Water Pollution Prevention Plan, Street Lighting Plan, CCTV Existing Sewer Lines, Independent QA/QC, TDLR Review for Texas Accessibility Standards Compliance, Reproduction, and Drug Testing Compliance. The total Additional Services appropriation is \$688,767.00.

The negotiated maximum for Phase I Services is \$987,146.00.

The total cost of this project is \$2,065,092.00 to be appropriated as follows: \$1,877,356.00 for Contract services and \$187,736.00 for CIP Cost Recovery.

PAY OR PLAY PROGRAM: The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the Contractor provides health benefits to eligible employees in compliance with City policy.

M/WBE PARTICIPATION: The M/WBE goal for the project is set at 24%. The Consultant has proposed the following firms to achieve this goal.

<u>Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Total Contract</u>
1. Kuo & Associates, Inc.	Topographic Survey, Survey Control Map, Right of Way, CAD Services - P&P, Monumentation, Property Acquisition, As-Built GPS	\$222,060.00	11.83%
2. RODS Subsurface Utility Engineering, Inc.	Subsurface Underground Engineering	\$ 40,000.00	2.13%
3. Atser, LP	Geotechnical Investigation	\$ 70,663.00	3.76%
4. Crouch Environmental Services, Inc.	ESA I, Cultural/ Historical Survey	\$ 6,200.00	0.33%
5. Gunda Corporation, LLC	Traffic Control Plans, Pavement Marking/ Signage Plan	\$ 47,000.00	2.50%
6. Amani Engineering, Inc.	Storm Water Pollution Prevention Plan, Street Lighting Plan	\$ 20,500.00	1.09%
7. Chief Solutions, Inc.	CCTV Existing Storm Sewer Lines	\$ 23,000.00	1.23%
8. Atlas Civil Engineering PLLC	Independent QA/QC Review of Final 410	\$ 9,608.00	0.51%
9. Accessibility Check	TDLR Plan Review	\$ 1,000.00	0.05%
10. B&E Reprographics, Inc.	Reproduction	<u>\$ 15,000.00</u>	<u>0.80%</u>
TOTAL		\$455,031.00	24.24%

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project.

Carol Ellinger Haddock, P.E., Director
Houston Public Works

M-410039-0001-3

Amount of Funding:

Total \$2,065,092.00 - Fund No. 4042 - Street & Traffic Control and Storm Drainage DDSRF
(Supported by Drainage Utility Charge)

Contact Information:

Juan Chavira, PE, PMP, CEM
Assistant Director, Capital Projects
Phone: (832) 395-2441

ATTACHMENTS:

Description

Signed Coversheet
Maps

Type

Signed Cover sheet
Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:

District C

Item Creation Date: 7/25/2018

20JLB28 PES / CivilTech Engineering, Inc.

Agenda Item#:

Background:

SUBJECT: Professional Engineering Services Contract between the City and CivilTech Engineering, Inc. for Drainage and Paving Improvements for Cottage Grove East.

RECOMMENDATION: An ordinance approving a Professional Engineering Services Contract with CivilTech Engineering, Inc. and appropriate funds.

PROJECT NOTICE/JUSTIFICATION: This project is part of the Storm Drainage Capital Improvement Plan (CIP) and is required to improve street drainage.

DESCRIPTION/SCOPE: This project consists of the design of storm drainage improvements, concrete paving, curbs, sidewalks, driveways and underground utilities.

LOCATION: The project area is generally bound by White Oak Bayou on the north, IH-10 Frontage Road on the south, Shepherd Drive on the east and TC Jester Blvd on the west. The project is located in Key Map Grids 492C, 492D, 492G, 492H.

SCOPE OF CONTRACT AND FEE: Under the scope of the Contract, the Consultant will perform Phase I - Preliminary Design, Phase II - Final Design, Phase III - Construction Phase Services and Additional Services. Basic Services Fee for Phase I is based on cost of time and materials with not-to-exceed agreed upon amount. The Basic Services fees for Phase II and Phase III are based on a negotiated lump sum amount. The total Basic Services appropriation is \$1,188,589.00.

The Contract also includes certain Additional Services to be paid either as lump sum or on a reimbursable basis. The Additional Services include Review Pre-Engineering Report, Impact and Mitigation Analysis, Drainage Impact Study, Public Meetings, Engineering Design Report, Technical Review Committee, Record of Decision and Action Items, Topographic Survey, Right-of-Way Survey, Monumentation Setting/ Recovery, Property/ ROW Acquisition Survey, Subsurface Utility Engineering, GIS Digital Deliverable, Geotechnical Investigation, Phase 1 Environmental Site Assessment, Cultural/ Historical Survey, Tree Removal/ Protection Plan, Traffic Control Plan, Signing and Pavement Marking Plan, Storm Water Pollution Prevention Plan, Street Lighting Plan, CCTV Existing Sewer Lines, Independent QA/QC, TDLR Review for Texas Accessibility Standards Compliance, Reproduction, and Drug Testing Compliance. The total Additional Services appropriation is \$688,767.00.

The negotiated maximum for Phase I Services is \$987,146.00.

The total cost of this project is \$2,065,092.00 to be appropriated as follows: \$1,877,356.00 for Contract services and \$187,736.00 for CIP Cost Recovery.

PAY OR PLAY PROGRAM: The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the Contractor provides health benefits to eligible employees in compliance with City policy.

M/WBE PARTICIPATION: The M/WBE goal for the project is set at 24%. The Consultant has proposed the following firms to achieve this goal.

<u>Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Total Contract</u>
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5.	Gunda Corporation, LLC	Traffic Control Plans, Pavement Marking/ Signage Plan	\$ 47,000.00	2.50%
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7.	Chief Solutions, Inc.	CCTV Existing Storm Sewer Lines	\$ 23,000.00	1.23%
8.	Atlas Civil Engineering PLLC	Independent QA/QC Review of Final 410	\$ 9,608.00	0.51%
9.	Accessibility Check	TDLR Plan Review	\$ 1,000.00	0.05%
10.	B&E Reprographics, Inc.	Reproduction	<u>\$ 15,000.00</u>	<u>0.80%</u>
TOTAL			\$455,031.00	24.24%

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project.



Carol Ellinger Haddock, P.E., Director
Houston Public Works

M-410039-0001-3

Amount of Funding:

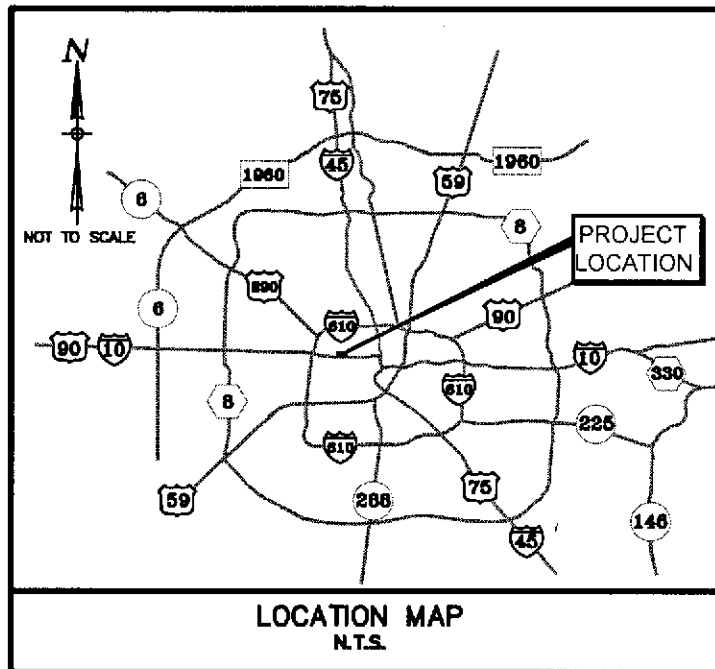
Total \$2,065,092.00 - Fund No. 4042 - Street & Traffic Control and Storm Drainage DDSRF (Supported by Drainage Utility Charge)

Contact Information:

Juan Chavira, PE, PMP, CEM
Assistant Director, Capital Projects
Phone: (832) 395-2441

ATTACHMENTS:

Description	Type
Maps	Backup Material
OBO (Vendor Info Sheets & LOI's)	Backup Material
Form B	Backup Material
Affidavit of Ownership	Backup Material
Tax Report	Backup Material
Pay or Play 1-3	Backup Material
Form 1295	Backup Material



CivilTech 11821 Telge Road
 Engineering, Inc. Cypress, Texas 77429
 (281) 304-0200 Fax (281) 304-0210
 Registration No. F-382

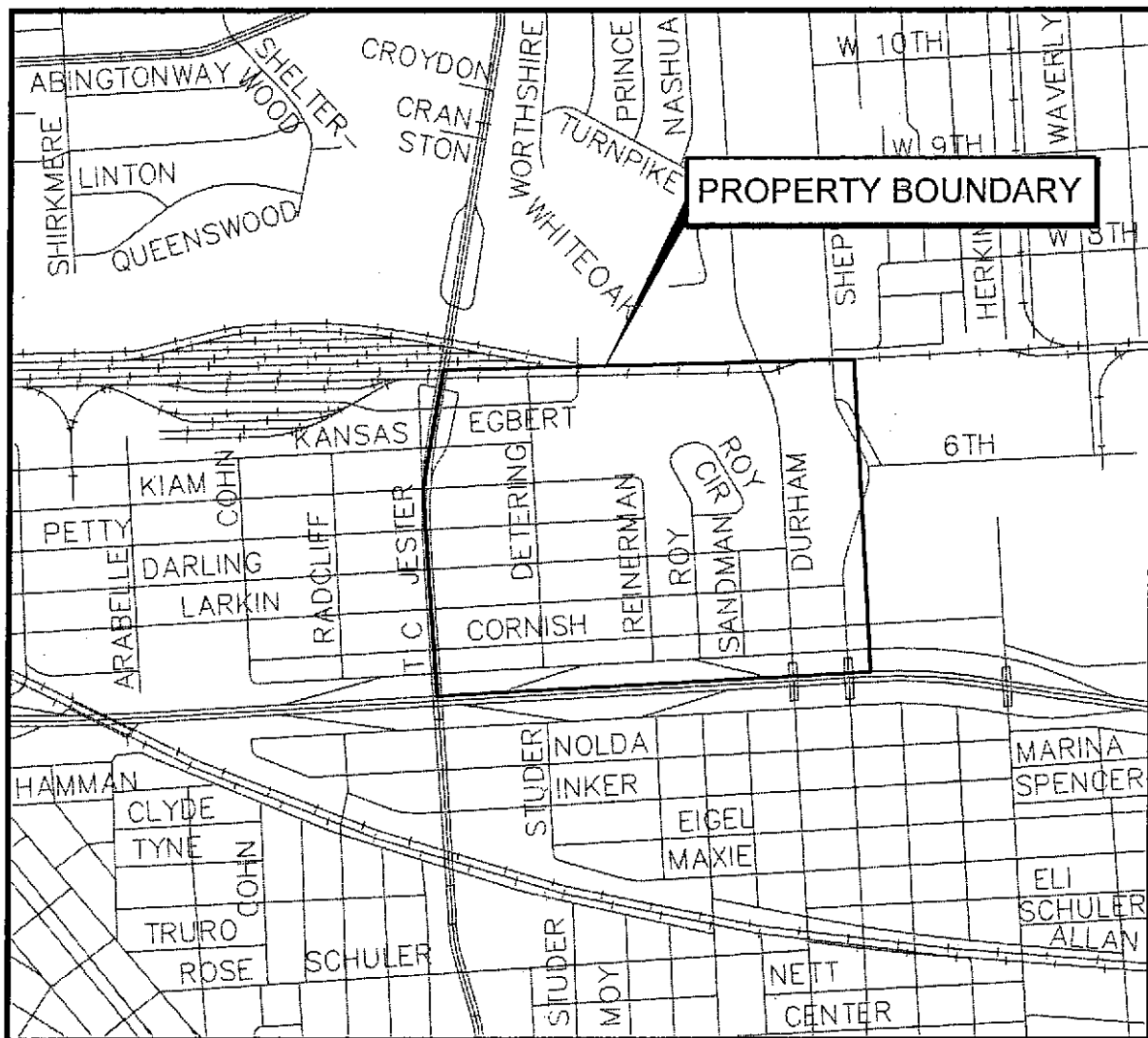
COUNCIL DISTRICT - C
 DRAINAGE AND PAVING
 IMPROVEMENTS FOR
 COTTAGE GROVE EAST

VICINITY MAP

Date: 7/25/18

Job: 380013

Exhibit: 1



VICINITY MAP
N.T.S.
KEY MAP NO. 492 C & 492 G



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District E, District K

Item Creation Date: 5/11/2018

20NP10 Addtn'l Approp /AIA Engineers,Ltd.

Agenda Item#: 28.

Summary:

ORDINANCE appropriating \$206,000.00 out of Metro Projects Construction DDSRF as an additional appropriation to Professional Engineering Services Contract between the City of Houston and **AIA ENGINEERS, LTD** for the Roadway Surface Replacement FY2016 Program (as approved by Ordinance No. 2016-0016); providing funding for CIP Cost Recovery relating to construction of facilities financed by the Metro Projects Construction DDSRF - **DISTRICTS E - MARTIN and K – CASTEX-TATUM**

Background:

SUBJECT: Additional Appropriation to Professional Engineering Services Contract between the City and AIA Engineers Ltd. for Roadway Surface Replacement FY16.

RECOMMENDATION: (SUMMARY) Approve an ordinance appropriating additional funds to the Professional Engineering Services Contract with AIA Engineers, Ltd.

PROJECT NOTICE/JUSTIFICATION: This project is part of the Roadway Pavement Replacement program. This program is required to improve and maintain a safe road surface and accessibility.

DESCRIPTION/SCOPE: This project consists of the reconstruction of the streets along with the repair and improvements to ramps, sidewalks and roadside ditch.

LOCATION: This additional appropriation is for the following streets:

Street	From	To	Key Map	Council District
Miles St.	Market St.	Industrial Rd.	497J, 497N	E
Surrey Square St.	Cripple Creek Dr.	Winkler Dr.	535V, 535Z	E
Park Manor St.	Raven Ridge Dr.	FM Rd 2234	611C	K

PREVIOUS HISTORY AND SCOPE: City Council approved the original Contract on 01/06/2016 under Ordinance No. 2016-0016. The scope of services under the Original Contract consisted of roadway pavement design, roadside ditch grading, sidewalks, ramps and street light relocation.

Under this Contract, the Consultant completed the final design of Martinville Dr. and Sunbeam St. which are now in the construction stage. The design of Miles St., Surrey Square St. and Park Manor St. is underway and the Consultant has completed 80% of the design work.

SCOPE OF THIS ADDITIONAL APPROPRIATION AND FEE: The requested additional appropriation will accomplish the following tasks: The remaining design work of Phase II and Phase III services for Miles St., Surrey Square St. and Park Manor St. A fee of \$116,835.00 is budgeted

for Basic Services and \$37,165.00 for Additional Services. The Additional Services are anticipated to include surveying, traffic control plans, and Storm Water Pollution Prevention Plan which comprise the bulk of the funds.

The total requested appropriation is \$206,000.00 to be appropriated as follows: \$154,000.00 for contract services and \$52,000.00 for CIP Cost Recovery.

PAY OR PLAY PROGRAM: The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the Contractor provides health benefits to eligible employees in compliance with City policy.

M/WBE PARTICIPATION: The M/WBE goal established for this project is 24%. The original Contract amount totals \$524,160.00. The Consultant has been paid \$450,254.00 (85.90%) to date. Of this amount, \$132,018.00 (29.32%) has been paid to M/WBE sub-consultants to date. Assuming approval of the requested additional appropriation, the contract amount will increase to \$678,160.00. The Consultant proposes the following plan to meet the M/WBE goal.

<u>Name of Firms</u>	<u>Work Description</u>	<u>Total Amount</u>	<u>% of Total Contract</u>
Paid Prior M/WBE Commitment		\$132,018.00	19.47%
Unpaid Prior MWBE Commitment		\$ 38,709.00	5.71%
1. EPIC Transportation Group LP	Traffic Control Plan and Storm Water Pollution Prevention Plan	\$ 13,500.00	1.99%
2. TSC Surveying	Topographic Surveying	\$ 23,665.00	3.49%
	TOTAL	\$207,892.00	30.66%

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project.

Carol Ellinger Haddock, P.E., Director
Houston Public Works

WBS No. N-321039-0001-3

Other Council Action:

Prior Council Action:

Ordinance 2016-0016, dated 01-06-2016

Amount of Funding:

\$206,000.00 from Fund No. 4040 - METRO Construction DDSRF (\$206,000.00 Supported by Third Party Funds: METRO)

Original (previous) appropriation of \$424,000.00 from Fund No. 4040- METRO Projects Construction DDSRF.

\$200,000.00 from Fund 4042A- Street & Traffic Control and Storm Drainage DDSRF

Contact Information:

Juan Chavira, PE, PMP, CEM

Assistant Director

Infrastructure Delivery Line - Capital Projects

Phone: (832) 395-2441

ATTACHMENTS:

Description

Signed Coversheet

Maps

Type

Signed Cover sheet

Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:
District E, District K
Item Creation Date: 5/11/2018

20NP10 Addn'l Approp /AIA Engineers,Ltd.

Agenda Item#:

Background:

SUBJECT: Additional Appropriation to Professional Engineering Services Contract between the City and AIA Engineers Ltd. for Roadway Surface Replacement FY16.

RECOMMENDATION: (SUMMARY) Approve an ordinance appropriating additional funds to the Professional Engineering Services Contract with AIA Engineers, Ltd.

PROJECT NOTICE/JUSTIFICATION: This project is part of the Roadway Pavement Replacement program. This program is required to improve and maintain a safe road surface and accessibility.

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Surrey Square St.	Cripple Creek Dr.	Winkler Dr.	535V, 535Z	E
Park Manor St.	Raven Ridge Dr.	FM Rd 2234	611C	K

PREVIOUS HISTORY AND SCOPE: City Council approved the original Contract on 01/06/2016 under Ordinance No. 2016-0016. The scope of services under the Original Contract consisted of roadway pavement design, roadside ditch grading, sidewalks, ramps and street light relocation. Under this Contract, the Consultant completed the final design of Martinville Dr. and Sunbeam St. which are now in the construction stage. The design of Miles St., Surrey Square St. and Park Manor St. is underway and the Consultant has completed 80% of the design work.

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The total requested appropriation is \$206,000.00 to be appropriated as follows: \$154,000.00 for contract services and \$52,000.00 for CIP Cost Recovery.

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2. TSC Surveying	Topographic Surveying	\$ 23,665.00	3.49%
	TOTAL	\$207,892.00	30.66%

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project.



Carol Ellinger Haddock, P.E., Director
Houston Public Works

WBS No. N-321039-0001-3

Prior Council Action:

Ordinance 2016-0016, dated 01-06-2016

Amount of Funding:

\$206,000.00 from Fund No. 4040 - METRO Construction DDSRF (\$206,000.00 Supported by Third Party Funds: METRO)

Original (previous) appropriation of \$424,000.00 from Fund No. 4040- METRO Projects Construction DDSRF.

\$200,000.00 from Fund 4042A- Street & Traffic Control and Storm Drainage DDSRF

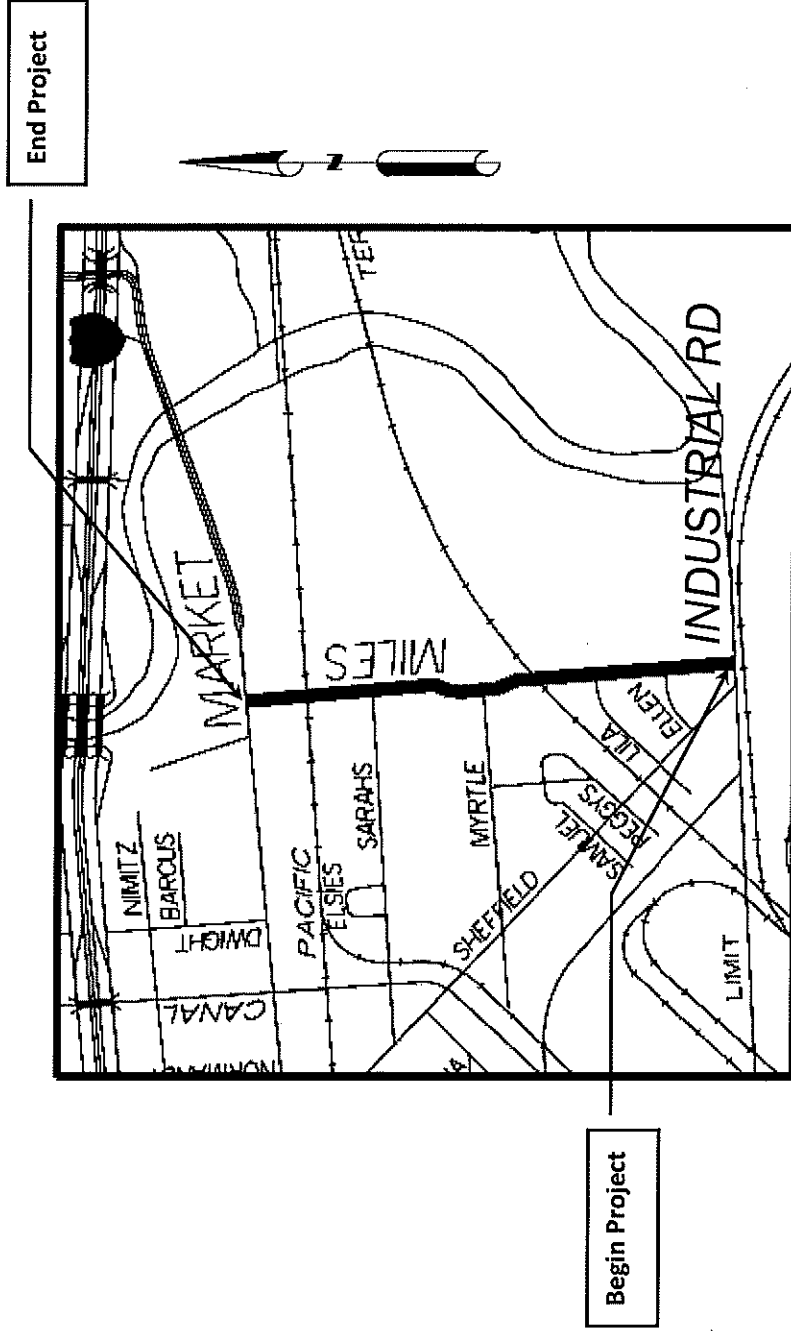
Contact Information:

Juan Chavira, PE, PMP, CEM
Assistant Director
Infrastructure Delivery Line - Capital Projects
Phone: (832) 395-2441

ATTACHMENTS:

Description	Type
Maps	Backup Material
OBO Docs (HHF Vendor Info Sheets & Letters of Intent& MWBE Participation Schedule)	Backup Material
Form B	Backup Material
Affidavit of Ownership (doc 0455)	Backup Material
Tax Report	Backup Material
POP 1-3	Backup Material
Form 1295	Backup Material
Prior Council Action - prior RCA & Ordinance	Backup Material
SAP Documents	Financial Information

PROJECT LOCATION



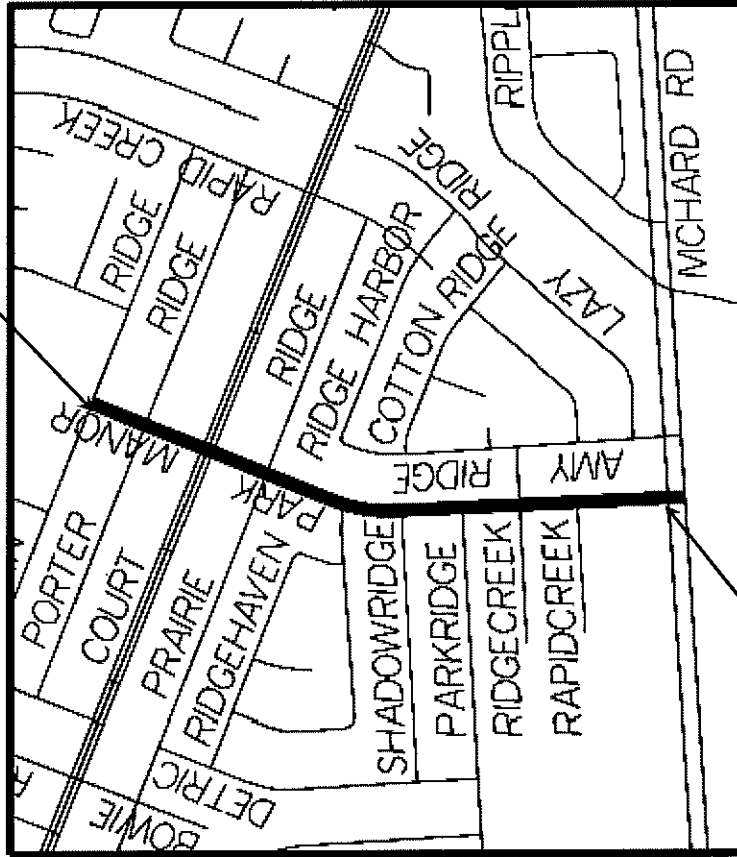
VICINTY MAP

MILES ST

(MARKET ST TO INDUSTRIAL RD)
(KEY MAP 497J, 497N)
(COUNCIL DISTRICT E)

PROJECT LOCATION

End Project



VICINITY MAP

Begin Project

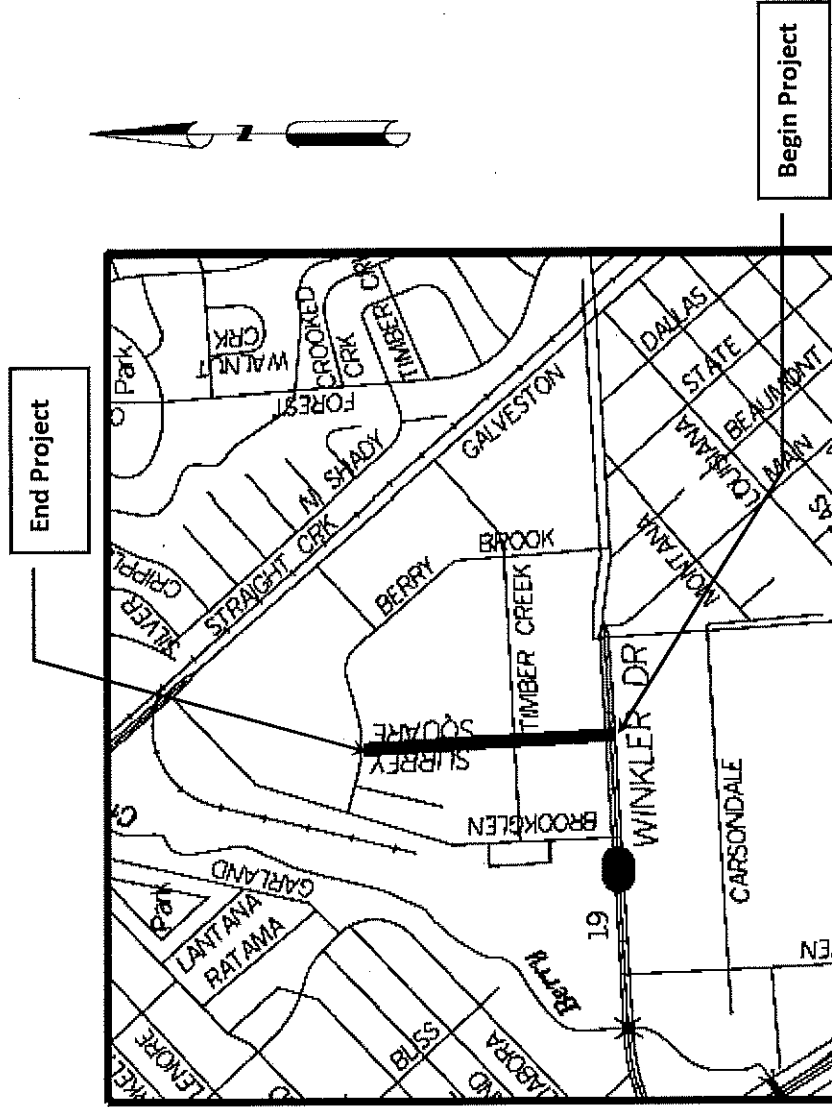
PARK MANOR ST

(RAVEN RIDGE DR TO FM RD 2234)

(KEY MAP 611C)

(COUNCIL DISTRICT K)

PROJECT LOCATION



VICINITY MAP

SURREY SQUARE ST

(CRIPPLE CREEK DR TO WINKLER DR)

(KEY MAP 535V, 535Z)

(COUNCIL DISTRICT E)



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District A

Item Creation Date: 5/15/2018

20DJ03 Contract Award / McKinney Construction, Inc.

Agenda Item#: 29.

Summary:

ORDINANCE appropriating \$2,571,481.00 out of Water & Sewer System Consolidated Construction Fund, awarding contract to **MCKINNEY CONSTRUCTION, INC** for Waterline Replacement in Binglewood Area; setting a deadline for the bidder's execution of the contract and delivery of all bonds, insurance, and other required contract documents to the City; holding the bidder in default if it fails to meet the deadlines; providing funding for testing services, CIP Cost Recovery, and contingencies relating to construction of facilities financed by the Water & Sewer System Consolidated Construction Fund - **DISTRICT A - STARDIG**

Background:

SUBJECT: Contract Award for Water Line Replacement in Binglewood Area.

RECOMMENDATION: (SUMMARY) Accept low bid, award Construction Contract and appropriate funds.

PROJECT NOTICE/JUSTIFICATION: This project is part of the City's Water Line Replacement Program and is required to replace and upgrade water lines within the City to increase availability of water, improve circulation and fire protection.

DESCRIPTION/SCOPE: This project consists of construction of approximately 26,412 linear feet of water lines (11-linear feet of 4-inch; 178 linear feet of 6-inch; 19,668 linear feet of 8-inch; 6,555 linear feet of 12-inch) and construction of service lines, fire hydrants, valves, fittings, connections, and appurtenances. The Contract duration for this project is 270 calendar days. This project was designed by Van De Wiele & Vogler, Inc.

LOCATION: The first project area is generally bound by Clay Road on the north, Kempwood Drive on the south, Soway Street on the east and Galway Lane on the west. The project is located in Key Map Grids 450G, 450H, 450L, 450M & 450Q. The second project area is generally bound by Lybert Drive on the north, Clay Road on the south, Hollow Hook Road on the east and Talina Way on the west. The project is located in Key Map Grid 450E.

BIDS: This project was advertised for bidding on February 23, 2018. Bids were received on March 22, 2018. The Four (4) bids are as follows:

	<u>Bidder</u>	<u>Bid Amount</u>
1.	McKinney Construction, Inc.	\$2,072,067.50
2.	D.L. Elliott Enterprises, Inc.	\$2,096,931.48
3.	Vaca Underground Utility, Inc.	\$2,274,308.00
4.	Scohil Construction Services, LLC.	\$2,529,131.50

AWARD: It is recommended that this construction contract be awarded to McKinney Construction, Inc. with

AWARD: It is recommended that this construction contract be awarded to McKinney Construction, Inc. with a low bid of \$2,072,067.50.

PROJECT COST: The total cost of this project is \$2,571,481.00 to be appropriated as follows:

· Bid Amount	\$2,072,067.50
· Contingencies	\$103,603.38
· Testing Services	\$85,000.00
· CIP Cost Recovery	\$310,810.12

Testing Services will be provided by Earth Engineering, Inc. under a previously approved contract.

HIRE HOUSTON FIRST: The proposed contract requires compliance with the City's 'Hire Houston First' (HHF) ordinance that promotes economic opportunity for Houston business and supports job creation. In this case, McKinney Construction, Inc. is a designated HHF company, but they were the successful awardee without application of the HHF preference.

PAY OR PLAY PROGRAM: The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the Contractor provides health benefits to eligible employees in compliance with City policy.

M/WSBE PARTICIPATION: The contractor has submitted the following proposed program to satisfy the 12% MBE goal and 8% WBE goal for this project.

	<u>MBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.	Miranda Trucking & Services, Inc.	Trucking, Dump Truck or Specialized Freight	\$ 82,882.70	4.00%
2.	Texas Fluid Power Products Inc.	Plumbing and Heating Equipment and Supplies	\$ 62,162.02	3.00%
3.	R B Landscaping Company	Flagging & Landscaping Services	<u>\$103,607.37</u>	<u>5.00%</u>
	TOTAL		\$248,652.09	12.00%

	<u>WBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.	Bevco Company, Inc.	Plumbing and Heating Equipment and Supplies	<u>\$165,765.40</u>	<u>8.00%</u>
	TOTAL		\$165,765.40	8.00%

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project. All known rights-of-way, easements and/or right-of-entry required for the project have been acquired.

Carol Ellinger Haddock, P.E., Director
Houston Public Works

WBS No. S-000035-0201-4

Amount of Funding:

\$2,571,481.00 from Fund No. 8500 - Water and Sewer System Consolidated Construction Fund.

Contact Information:

Juan Chavira, PE, PMP, CEM
Assistant Director, Infrastructure Delivery Line, Capital Projects
Phone: (832) 395-2441

ATTACHMENTS:

Description

Signed Coversheet

Type

Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:

District A

Item Creation Date: 5/15/2018

20DJ03 Contract Award / McKinney Construction, Inc.

Agenda Item#:

Background:

SUBJECT: Contract Award for Water Line Replacement in Binglewood Area.

RECOMMENDATION: (SUMMARY) Accept low bid, award Construction Contract and appropriate funds.

PROJECT NOTICE/JUSTIFICATION: This project is part of the City's Water Line Replacement Program and is required to replace and upgrade water lines within the City to increase availability of water, improve circulation and fire protection.

DESCRIPTION/SCOPE: This project consists of construction of approximately 26,412 linear feet of water lines (11-linear feet of 4-inch; 178 linear feet of 6-inch; 19,668 linear feet of 8-inch; 6,555 linear feet of 12-inch) and construction of service lines, fire hydrants, valves, fittings, connections, and appurtenances. The Contract duration for this project is 270 calendar days. This project was designed by Van De Wiele & Vogler, Inc.

LOCATION: The first project area is generally bound by Clay Road on the north, Kempwood Drive on the south, Soway Street on the east and Galway Lane on the west. The project is located in Key Map Grids 450G, 450H, 450L, 450M & 450Q. The second project area is generally bound by Lybert Drive on the north, Clay Road on the south, Hollow Hook Road on the east and Talina Way on the west. The project is located in Key Map Grid 450E.

BIDS: This project was advertised for bidding on February 23, 2018. Bids were received on March 22, 2018. The Four (4) bids are as follows:

<u>Bidder</u>	<u>Bid Amount</u>
1. McKinney Construction, Inc.	\$2,072,067.50
2. D.L. Elliott Enterprises, Inc.	\$2,096,931.48
3. Vaca Underground Utility, Inc.	\$2,274,308.00
4. Scohill Construction Services, LLC.	\$2,529,131.50

AWARD: It is recommended that this construction contract be awarded to McKinney Construction, Inc. with a low bid of \$2,072,067.50.

PROJECT COST: The total cost of this project is \$2,571,481.00 to be appropriated as follows:

• Bid Amount	\$2,072,067.50
• Contingencies	\$103,603.38
• Testing Services	\$85,000.00
• CIP Cost Recovery	\$310,810.12

Testing Services will be provided by Earth Engineering, Inc. under a previously approved contract.

HIRE HOUSTON FIRST: The proposed contract requires compliance with the City's 'Hire Houston First' (HHF) ordinance that promotes economic opportunity for Houston business and supports job creation. In this case, McKinney Construction, Inc. is a designated HHF company, but they were the successful awardee without application of the HHF preference.

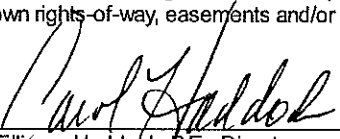
PAY OR PLAY PROGRAM: The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the Contractor provides health benefits to eligible employees in compliance with City policy.

M/WSBE PARTICIPATION: The contractor has submitted the following proposed program to satisfy the 12% MBE goal and 8% WBE goal for this project.

	<u>MBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.	Miranda Trucking & Services, Inc.	Trucking, Dump Truck or Specialized Freight	\$ 82,882.70	4.00%
2.	Texas Fluid Power Products Inc.	Plumbing and Heating Equipment and Supplies	\$ 62,162.02	3.00%
3.	R B Landscaping Company	Flagging & Landscaping Services	<u>\$103,607.37</u>	<u>5.00%</u>
TOTAL			\$248,652.09	12.00%

	<u>WBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.	Bevco Company, Inc.	Plumbing and Heating Equipment and Supplies	<u>\$165,765.40</u>	<u>8.00%</u>
TOTAL			\$165,765.40	8.00%

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project. All known rights-of-way, easements and/or right-of-entry required for the project have been acquired.


 Carol Ellinger Haddock, P.E., Director
 Houston Public Works

WBS No. S-000035-0201-4

Amount of Funding:

\$2,571,481.00 from Fund No. 8500 - Water and Sewer System Consolidated Construction Fund.

Contact Information:

Juan Chavira, PE, PMP, CEM
 Assistant Director, Infrastructure Delivery Line, Capital Projects
 Phone: (832) 395-2441

ATTACHMENTS:

Description	Type
Maps	Backup Material
OBO/GFE/Waivers	Backup Material
OBO Docs (HHF, Vendor Info Sheets & Letters of Intent)	Backup Material
Form A - Contractor's Submission List (doc 00452)	Backup Material
Form B - Fair Campaign Ord.	Backup Material
Affidavit of Ownership (doc 0455)	Backup Material
Tax Report	Backup Material
Pay or Play (POP 1-3)	Backup Material
Bid Extension Letter	Backup Material
Form 1295	Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District F, District J

Item Creation Date:

20DJ04 Contract Award / McKinney Construction, Inc.

Agenda Item#: 30.

Summary:

ORDINANCE appropriating \$2,873,796.00 out of Water & Sewer System Consolidated Construction Fund, awarding contract to **MCKINNEY CONSTRUCTION, INC** for Waterline Replacement in Tanglewilde Area; setting a deadline for the bidder's execution of the contract and delivery of all bonds, insurance, and other required contract documents to the City; holding the bidder in default if it fails to meet the deadlines; providing funding for testing services, CIP Cost Recovery, and contingencies relating to construction of facilities financed by the Water & Sewer System Consolidated Construction Fund - **DISTRICTS F - LE and J - LASTER**

Background:

SUBJECT: Contract Award for Water Line Replacement in Tanglewilde Area.

RECOMMENDATION: (SUMMARY) Accept low bid, award Construction Contract and appropriate funds.

PROJECT NOTICE/JUSTIFICATION: This project is part of the City's Water Line Replacement Program and is required to replace and upgrade water lines within the City to increase availability of water, improve circulation and fire protection.

DESCRIPTION/SCOPE: This project consists of construction of approximately 29,170 linear feet of water lines (326 linear feet of 4-inch; 333 linear feet of 6-inch; 17,528 linear feet of 8-inch; 10,983 linear feet of 12-inch) and construction of service lines, fire hydrants, valves, fittings, connections, and appurtenances. The Contract duration for this project is 310 calendar days. This project was designed by Van De Wiele & Vogler, Inc.

LOCATION: The first project area is generally bound by Westheimer Road on the north, Richmond Avenue on the south, Dunvale Road on the east and Rockyridge Drive on the west. The project is located in Key Map Grids 490T, 490U, 490X, 490Y & 490Z. The second project area is along Hornwood from Southwest Freeway to Rookin Street. The project is located in Key Map Grid 530H.

BIDS: This project was advertised for bidding on March 02, 2018. Bids were received on March 29, 2018. The Six (6) bids are as follows:

	Bidder	Bid Amount
1.	McKinney Construction, Inc.	\$2,315,662.92
2.	DCE Construction, Inc.	\$2,427,304.61
3.	D.L. Elliott Enterprises, Inc.	\$2,576,533.21
4.	Scohil Construction Services, LLC.	\$2,747,734.00
5.	Reliance Construction Services, L.P.	\$2,794,185.71
6.	Rescom, Inc.	\$2,802,205.50

AWARD: It is recommended that this construction contract be awarded to McKinney Construction, Inc. with a low bid of \$2,315,662.92.

PROJECT COST: The total cost of this project is \$2,873,796.00 to be appropriated as follows:

· Bid Amount	\$2,315,662.92
· Contingencies	\$115,783.15
· Testing Services	\$95,000.00
· CIP Cost Recovery	\$347,349.93

Testing Services will be provided by Raba Kistner, Inc. under a previously approved contract.

HIRE HOUSTON FIRST: The proposed contract requires compliance with the City's 'Hire Houston First' (HHF) ordinance that promotes economic opportunity for Houston business and supports job creation. In this case, McKinney Construction, Inc. is a designated HHF company, but they were the successful awardee without application of the HHF preference.

PAY OR PLAY PROGRAM: The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the Contractor provides health benefits to eligible employees in compliance with City policy.

M/WSBE PARTICIPATION: The contractor has submitted the following proposed program to satisfy the 12% MBE goal and 8% WBE goal for this project.

	<u>MBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.	Miranda Trucking & Services, Inc.	Trucking, Dump Truck or Specialized Freight	\$ 92,626.51	4.00%
2.	Texas Fluid Power Products Inc.	Plumbing and Heating Equipment and Supplies	\$ 46,313.25	2.00%
3.	R B Landscaping Company	Flagging and Landscaping Services	\$138,939.76	6.00%
	TOTAL		\$277,879.52	12.00%

	<u>WBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.	Bevco Company, Inc.	Plumbing and Heating Equipment and Supplies	\$185,253.03	8.00%
	TOTAL		\$185,253.03	8.00%

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project.

All known rights-of-way, easements and/or right-of-entry required for the project have been acquired.

Carol Ellinger Haddock, P.E., Director
Houston Public Works

WBS No. S-000035-0203-4

Amount of Funding:

\$2,873,796.00 from Fund No. 8500 - Water and Sewer System Consolidated Construction Fund

Contact Information:

Juan Chavira, PE, PMP, CEM
Assistant Director, Infrastructure Delivery Line, Capital Projects
Phone: (832) 395-2441

ATTACHMENTS:

Description

Signed Coversheet

Type

Signed Cover sheet



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:
District F, District J
Item Creation Date:

20DJ04 Contract Award / McKinney Construction, Inc.

Agenda Item#:

Background:

SUBJECT: Contract Award for Water Line Replacement in Tanglewilde Area.

RECOMMENDATION: (SUMMARY) Accept low bid, award Construction Contract and appropriate funds.

PROJECT NOTICE/JUSTIFICATION: This project is part of the City's Water Line Replacement Program and is required to replace and upgrade water lines within the City to increase availability of water, improve circulation and fire protection.

DESCRIPTION/SCOPE: This project consists of construction of approximately 29,170 linear feet of water lines (326 linear feet of 4-inch; 333 linear feet of 6-inch; 17,528 linear feet of 8-inch; 10,983 linear feet of 12-inch) and construction of service lines, fire hydrants, valves, fittings, connections, and appurtenances. The Contract duration for this project is 310 calendar days. This project was designed by Van De Wiele & Vogler, Inc.

LOCATION: The first project area is generally bound by Westheimer Road on the north, Richmond Avenue on the south, Dunvale Road on the east and Rockyridge Drive on the west. The project is located in Key Map Grids 490T, 490U, 490X, 490Y & 490Z. The second project area is along Hornwood from Southwest Freeway to Rookin Street. The project is located in Key Map Grid 530H.

BIDS: This project was advertised for bidding on March 02, 2018. Bids were received on March 29, 2018. The Six (6) bids are as follows:

<u>Bidder</u>	<u>Bid Amount</u>
1. McKinney Construction, Inc.	\$2,315,662.92
2. DCE Construction, Inc.	\$2,427,304.61
3. D.L. Elliott Enterprises, Inc.	\$2,576,533.21
4. Scohil Construction Services, LLC.	\$2,747,734.00
5. Reliance Construction Services, L.P.	\$2,794,185.71
6. Resicom, Inc.	\$2,893,295.50

AWARD: It is recommended that this construction contract be awarded to McKinney Construction, Inc. with a low bid of \$2,315,662.92.

PROJECT COST: The total cost of this project is \$2,873,796.00 to be appropriated as follows:

· Bid Amount	\$2,315,662.92
· Contingencies	\$115,783.15
· Testing Services	\$95,000.00
· CIP Cost Recovery	\$347,349.93

Testing Services will be provided by Raba Kistner, Inc. under a previously approved contract.

HIRE HOUSTON FIRST: The proposed contract requires compliance with the City's 'Hire Houston First' (HHF) ordinance that promotes economic opportunity for Houston business and supports job creation. In this case, McKinney Construction, Inc. is a designated HHF company, but they were the successful awardee without application of the HHF preference.

PAY OR PLAY PROGRAM: The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the Contractor provides health benefits to eligible employees in compliance with City policy.

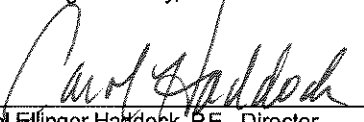
M/WSBE PARTICIPATION: The contractor has submitted the following proposed program to satisfy the 12% MBE goal and 8% WBE goal for this project.

	<u>MBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.	Miranda Trucking & Services, Inc.	Trucking, Dump Truck or Specialized Freight	\$ 92,626.51	4.00%
2.	Texas Fluid Power Products Inc.	Plumbing and Heating Equipment and Supplies	\$ 46,313.25	2.00%
3.	R B Landscaping Company	Flagging and Landscaping Services	<u>\$138,939.76</u>	<u>6.00%</u>
	TOTAL		\$277,879.52	12.00%

	<u>WBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.	Bevco Company, Inc.	Plumbing and Heating Equipment and Supplies	<u>\$185,253.03</u>	<u>8.00%</u>
	TOTAL		\$185,253.03	8.00%

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project.

All known rights-of-way, easements and/or right-of-entry required for the project have been acquired.


 Carol Ellinger Haddock, P.E., Director
 Houston Public Works

WBS No. S-000035-0203-4

Amount of Funding:

\$2,873,796.00 from Fund No. 8500 - Water and Sewer System Consolidated Construction Fund

Contact Information:

Juan Chavira, PE, PMP, CEM
 Assistant Director, Infrastructure Delivery Line, Capital Projects
 Phone: (832) 395-2441

ATTACHMENTS:

Description	Type
Maps	Backup Material
Form A - Contractor's Submission List (doc 00452)	Backup Material
Form B - Fair Campaign Ord.	Backup Material
Affadavit of Ownership	Backup Material
Tax Report	Backup Material
Pay or Play (POP 1-3)	Backup Material
Form 1295	Backup Material
OBO Docs	Backup Material
Bid Extension Ltr.	Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District B

Item Creation Date: 6/12/2018

20VNP22 Contract Award / Harper Brothers Construction,
LLC

Agenda Item#: 31.

Summary:

ORDINANCE authorizing the transfer of \$17,012,755.49 from NETL Expansion-Swift Fund to HPW-NETL Construction Fund and appropriating said sum out of HPW-NETL Construction Fund, appropriating \$22,857,775.30 out of Water Authorities Capital Contribution-NETL Fund, appropriating \$1,565,269.21 out of Water & Sewer System Consolidated Construction Fund, awarding contract to **HARPER BROTHERS CONSTRUCTION, LLC** for 108-inch Water Line along city easements from Smith Road to Lee Road; setting a deadline for the bidder's execution of the contract and delivery of all bonds, insurance, and other required contract documents to the City; holding the bidder in default if it fails to meet the deadlines; providing funding for testing services, CIP Cost Recovery, construction management, construction program management services, construction phase engineering services, and contingencies relating to construction of facilities financed by the HPW-NETL Construction Fund, Water Authorities Capital Contribution-NETL Fund, Water & Sewer System Consolidated Construction Fund - **DISTRICT B - DAVIS**

Background:

SUBJECT: Contract Award for 108-inch Water Line along City Easements from Smith Road to Lee Road.

RECOMMENDATION: (SUMMARY) Accept selected proposer, award Construction Contract and appropriate funds.

PROJECT NOTICE/JUSTIFICATION: This project is part of the City's Surface Water Transmission program and supports the execution of the Northeast Transmission Line projects from the Northeast Water Purification Plant to the Water Authorities take-points for the Infrastructure Capital Improvement Plan. It is required to improve existing water distribution systems and to meet Harris-Galveston Coastal Subsidence District's Legislative mandate to regulate the withdrawal of groundwater. The project is a combination of water line construction, sanitary sewer, public utility adjustments, pavement and drainage improvements.

DESCRIPTION/SCOPE: This project consists of the construction of approximately 6,300 linear feet of 108-inch transmission water line, 180 linear feet of 84-inch and 54-inch transmission water line, 170 linear feet of 42-inch transmission water line, 65 linear feet of 6-inch distribution water line and associated adjustments to sanitary sewer, pavement, and drainage. The Contract duration for this project is 640 calendar days. This project was designed by Lockwood, Andrews & Newnam,

Inc.

LOCATION: The project is along City easements from Smith Road to Lee Road. The project is located in Key Map Grids 374Z, 375S, T and W.

PROPOSALS: This project was advertised for competitive sealed proposals on February 16, 2018. Proposals were received on March 29, 2018. The six (6) bids as part of the proposals received are as follows:

	<u>Proposer</u>	<u>Proposal Bid Price</u>
1.	Thalle Construction Co., Inc.	\$33,650,426.76
2.	Oscar Renda Contracting, Inc.	\$33,654,831.72
3.	Main Lane Industries, Ltd	\$34,586,354.22
4.	Harper Brothers Construction, LLC	\$35,855,466.47
5.	Boyer, Inc.	\$36,043,855.72
6.	Texas Sterling Construction Co.	\$37,314,347.07

AWARD: The Selection Committee reviewed the proposals and recommended that this construction contract be awarded to Harper Brothers Construction, LLC with a total proposal bid price of \$35,855,466.47 and that Addendum Number 1 be made a part of this Contract.

PROJECT COST: The total cost of this project is \$41,435,800.00 to be appropriated as follows:

· Proposal Bid Amount	\$35,855,466.47
· Contingencies	\$1,792,773.32
· Testing Services	\$600,000.00
· CIP Cost Recovery	\$1,075,741.21
· Construction Program Management Services	\$528,418.00
· Construction Management	\$846,500.00
· Construction Phase Engineering Services	\$736,901.00

Testing Services will be provided by Geotest Engineering, Inc. under a previously approved contract.

Construction Program Management Services will be provided by KCI Technologies, Inc. under a previously approved contract.

Construction Management Services will be provided by Stantec Consulting Services, Inc. under a previously approved contract.

Construction Phase Engineering Services will be provided by Lockwood, Andrews & Newnam, Inc. under a previously approved contract.

HIRE HOUSTON FIRST: The proposed contract requires compliance with the City's 'Hire Houston First' (HHF) ordinance that promotes economic opportunity for Houston business and supports job creation. In this case, Harper Brothers Construction, LLC is a designated HHF company, but they were the successful awardee without application of the HHF preference.

PAY OR PLAY PROGRAM: The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the Contractor provides benefits for some employees but will pay into the Contractor Responsibility Fund for others, in compliance with City policy.

M/WSBE PARTICIPATION: The contractor has submitted the following proposed program to

satisfy the 7.00 % MBE goal and 4.00 % WBE goal for this project.

<u>MBE – Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.R. Ortiz Trucking	Trucking	\$1,147,374.93	3.20%
2.MVA Construction LLC	Driveways	\$107,566.40	0.30%
3.Karami Plumbing and Construction Supply, LLC	Supplier	<u>\$1,254,941.33</u>	<u>3.50%</u>
	TOTAL	\$2,509,882.66	7.00%

<u>WBE – Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.KMA Contractors Services Inc.	Supplier	\$717,109.33	2.00%
2.Gica Trucking	Trucking	<u>\$136,250.77</u>	<u>0.38%</u>
	TOTAL	\$853,360.10	2.38%

<u>SBE – Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.Bartel Contractors Inc.	Hydroseeding	\$43,026.56	0.12%
2.GMJ Paving Company LLC	Paving	\$254,573.81	0.71%
3.Gulf Coast Grouting, Inc.	Grouting	<u>\$283,258.19</u>	<u>0.79%</u>
	TOTAL	\$580,858.56	1.62%

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project. All known rights-of-way, easements and/or right-of-entry required for the project have been acquired.

Carol Ellinger Haddock, P.E., Director
Houston Public Works

WBS Nos. S-000900-0126-3 and S-000900-0126-4

Amount of Funding:

\$41,435,800.00 Total Cost

\$1,565,269.21 from Fund No. 8500 - Water and Sewer System Consolidated Construction Fund
\$22,857,775.30 from Fund No. 8507 - Water Authorities Capital Contribution-NETL Fund
\$17,012,755.49 transfer from Fund No. 8426 – NETL Expansion – SWIFT into Fund No. 8508 – HPW -NETL Construction Fund and Appropriate from Fund No. 8508 – HPW-NETL Construction Fund

Contact Information:

R. Jeff Masek, P.E., CCM
Assistant Director, Capital Projects
Phone: (832) 395-2387

ATTACHMENTS:

Description

Signed Coversheet
Maps

Type

Signed Cover sheet
Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:
District B
Item Creation Date: 6/12/2018

20VNP22 Contract Award / Harper Brothers Construction, LLC

Agenda Item#:

Background:

SUBJECT: Contract Award for 108-inch Water Line along City Easements from Smith Road to Lee Road.

RECOMMENDATION: (SUMMARY) Accept selected proposer, award Construction Contract and appropriate funds.

PROJECT NOTICE/JUSTIFICATION: This project is part of the City's Surface Water Transmission program and supports the execution of the Northeast Transmission Line projects from the Northeast Water Purification Plant to the Water Authorities take-points for the Infrastructure Capital Improvement Plan. It is required to improve existing water distribution systems and to meet Harris-Galveston Coastal Subsidence District's Legislative mandate to regulate the withdrawal of groundwater. The project is a combination of water line construction, sanitary sewer, public utility adjustments, pavement and drainage improvements.

DESCRIPTION/SCOPE: This project consists of the construction of approximately 6,300 linear feet of 108-inch transmission water line, 180 linear feet of 84-inch and 54-inch transmission water line, 170 linear feet of 42-inch transmission water line, 65 linear feet of 6-inch distribution water line and associated adjustments to sanitary sewer, pavement, and drainage. The Contract duration for this project is 640 calendar days. This project was designed by Lockwood, Andrews & Newnam, Inc.

LOCATION: The project is along City easements from Smith Road to Lee Road. The project is located in Key Map Grids 374Z, 375S, T and W.

PROPOSALS: This project was advertised for competitive sealed proposals on February 16, 2018. Proposals were received on March 29, 2018. The six (6) bids as part of the proposals received are as follows:

	<u>Proposer</u>	<u>Proposal Bid Price</u>
1.	Thalle Construction Co., Inc.	\$33,650,426.76
2.	Oscar Renda Contracting, Inc.	\$33,654,831.72
3.	Main Lane Industries, Ltd	\$34,586,354.22
4.	Harper Brothers Construction, LLC	\$35,855,466.47
5.	Boyer, Inc.	\$36,043,855.72
6.	Texas Sterling Construction Co.	\$37,314,347.07

AWARD: The Selection Committee reviewed the proposals and recommended that this construction contract be awarded to Harper Brothers Construction, LLC with a total proposal bid price of \$35,855,466.47 and that Addendum Number 1 be made a part of this Contract.

PROJECT COST: The total cost of this project is \$41,435,800.00 to be appropriated as follows:

• Proposal Bid Amount	\$35,855,466.47
• Contingencies	\$1,792,773.32
• Testing Services	\$600,000.00
• CIP Cost Recovery	\$1,075,741.21
• Construction Program Management Services	\$528,418.00
• Construction Management	\$846,500.00
• Construction Phase Engineering Services	\$736,901.00

Testing Services will be provided by Geotest Engineering, Inc. under a previously approved contract.

Construction Program Management Services will be provided by KCI Technologies, Inc. under a previously approved contract.

Construction Management Services will be provided by Stantec Consulting Services, Inc. under a previously approved contract.

Construction Phase Engineering Services will be provided by Lockwood, Andrews & Newnam, Inc. under a previously approved contract.

HIRE HOUSTON FIRST: The proposed contract requires compliance with the City's 'Hire Houston First' (HHF) ordinance that promotes economic opportunity for Houston business and supports job creation. In this case, Harper Brothers Construction, LLC is a designated HHF company, but they were the successful awardee without application of the HHF preference.

PAY OR PLAY PROGRAM: The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the Contractor provides benefits for some employees but will pay into the Contractor Responsibility Fund for others, in compliance with City policy.

M/WSBE PARTICIPATION: The contractor has submitted the following proposed program to satisfy the 7.00 % MBE goal and 4.00 % WBE goal for this project.

MBE – Name of Firms	Work Description	Amount	% of Contract
1.R. Ortiz Trucking	Trucking	\$1,147,374.93	3.20%
2.MVA Construction LLC	Driveways	\$107,566.40	0.30%
3.Karami Plumbing and Construction Supply, LLC	Supplier	<u>\$1,254,941.33</u>	<u>3.50%</u>
TOTAL		\$2,509,882.66	7.00%

WBE – Name of Firms	Work Description	Amount	% of Contract
1.KMA Contractors Services Inc.	Supplier	\$717,109.33	2.00%
2.Gica Trucking	Trucking	<u>\$136,250.77</u>	<u>0.38%</u>
TOTAL		\$853,360.10	2.38%

SBE – Name of Firms	Work Description	Amount	% of Contract
1.Bartel Contractors Inc.	Hydroseeding	\$43,026.56	0.12%
2.GMJ Paving Company LLC	Paving	\$254,573.81	0.71%
3.Gulf Coast Grouting, Inc.	Grouting	<u>\$283,258.19</u>	<u>0.79%</u>
TOTAL		\$580,858.56	1.62%

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project. All known rights-of-way, easements and/or right-of-entry required for the project have been acquired.


 Carol Ellinger Haddock, P.E., Director
 Houston Public Works

WBS Nos. S-000900-0126-3 and S-000900-0126-4

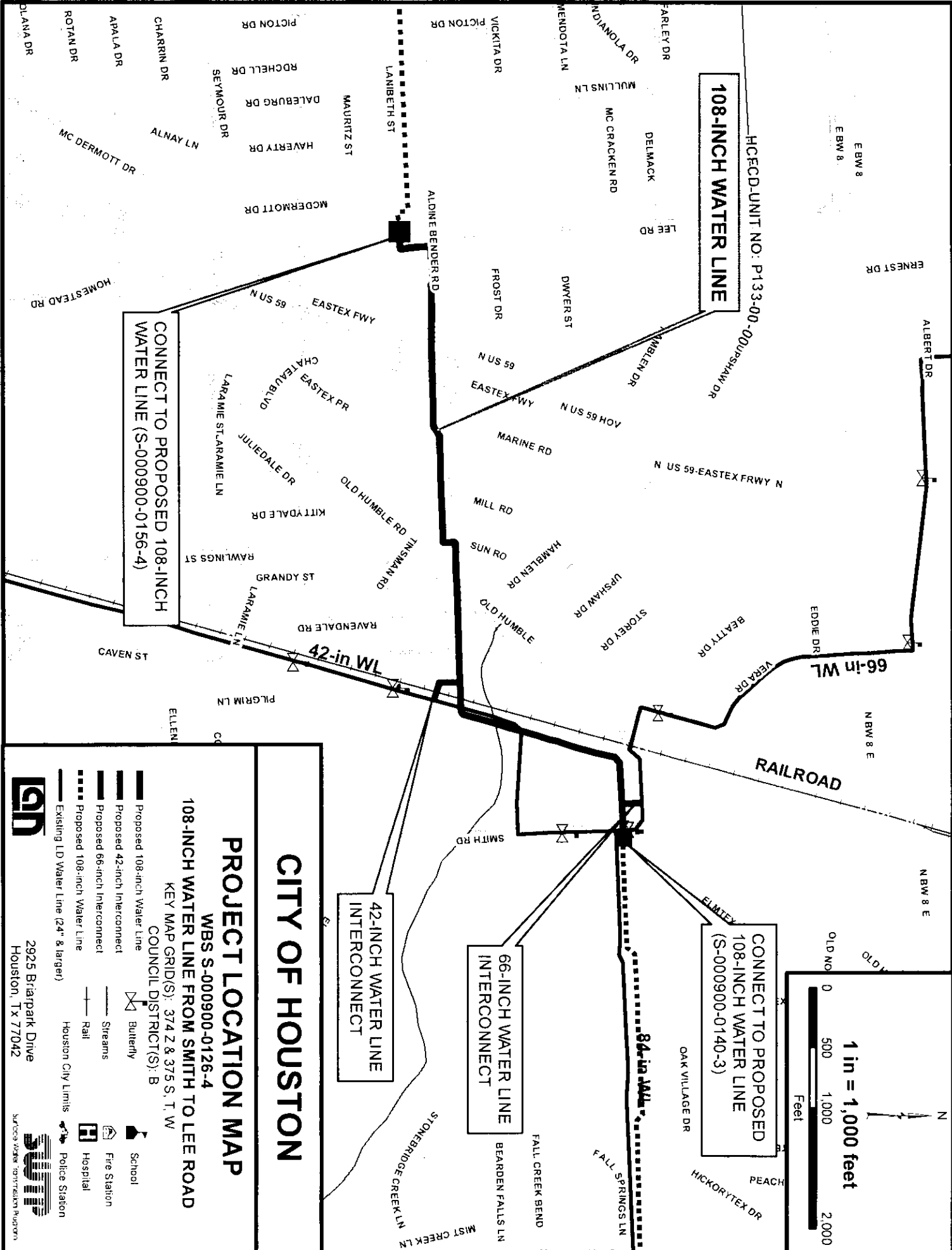
Amount of Funding:
 \$41,435,800.00 Total Cost

\$1,565,269.21 from Fund No. 8500 - Water and Sewer System Consolidated Construction Fund
 \$22,857,775.30 from Fund No. 8507 - Water Authorities Capital Contribution-NETL Fund
 \$17,012,755.49 transfer from Fund No. 8426 – NETL Expansion – SWIFT into Fund No. 8508 – HPW -NETL Construction Fund and
 Appropriate from Fund No. 8508 – HPW-NETL Construction Fund

Contact Information:
 R. Jeff Masek, P.E., CCM
 Assistant Director, Capital Projects
 Phone: (832) 395-2387

ATTACHMENTS:

Description	Type
Maps	Backup Material
OBO Docs (HHF, Vendor Info & Letters of Intent)	Backup Material
Form A (00452)	Backup Material
Form B (Fair Campaign Ord.)	Backup Material
Affidavit of Ownership (doc 00455)	Backup Material
Tax Report	Backup Material
Pay or Play (Pop 1-3)	Backup Material
Bid Extension Letter	Backup Material
Form 1295	Backup Material





CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District F, District H, District I, District J, District K

Item Creation Date: 5/24/2018

20VNP19 Contract Award / Harper Brothers Construction, LLC

Agenda Item#: 32.

Summary:

ORDINANCE appropriating \$9,073,900.00 out of Water & Sewer System Consolidated Construction Fund, awarding contract to **HARPER BROTHERS CONSTRUCTION, LLC** for Miscellaneous Large Diameter Water Line Improvements - Package 1; setting a deadline for the bidder's execution of the contract and delivery of all bonds, insurance, and other required contract documents to the City; holding the bidder in default if it fails to meet the deadlines; providing funding for testing service, CIP Cost Recovery, construction phase engineering services and contingencies relating to construction of facilities financed by the Water & Sewer System Consolidated Construction Fund - **DISTRICTS F - LE; H - CISNEROS; I - GALLEGOS; J - LASTER and K - CASTEX-TATUM**

Background:

SUBJECT: Contract Award for Miscellaneous Large Diameter Water Line Improvements – Package 1

RECOMMENDATION: (SUMMARY) Accept low bid, award Construction Contract and appropriate funds.

PROJECT NOTICE/JUSTIFICATION: This project is part of the City's Surface Water Transmission program and is required to maintain, improve and replace existing large diameter water lines and to meet Harris-Galveston Coastal Subsidence District's Legislative mandate to regulate the withdrawal of groundwater.

DESCRIPTION/SCOPE: This project consists of construction and rehabilitation of large diameter water transmission lines from 24-inch to 84-inch by combination of open cut, tunneling, sliplining and rehabilitation construction methods, including valves, connections and appurtenances at seven (7) different sites throughout the City. The Contract duration for this project is 1050 calendar days. This project was designed by Lockwood, Andrews & Newnam, Inc. and Nathelyne A. Kennedy & Associates.

LOCATION: The project locations are:

Site Description	Site Location	Key Map Grid	Council District
Site 1 – 24-/30-inch Water Line near Minute Maid Park	Along Texas St and Preston St from west of Bastrop St to Bastrop St, along Bastrop St between Texas and Preston, and along Prairie St to east of Emancipation Ave	493R	I
Site 2 – 24-inch Water			

Line at Bellaire Blvd and Hillcroft Ave	Across Bellaire Blvd at Hillcroft Ave	531E	J
Site 3 – 42-inch Water Line at Hunting Bayou and I-10	Across Hunting Bayou at I-10	496F	I
Site 4 – 48-inch Water Line at W. Bellfort & Knight Rd	At intersection of W. Bellfort and Knight Rd	532V	K
Site 5 – 30-inch Water Line along W. Bellfort Ave and US59	Across US59 along W. Bellfort Ave	569C	F, K
Site 6 – 84-inch Water Line on Kelley St	Along Kelley St from east of Jensen to west of US59	454N	H
Site 7 – Meter Station at Sims Bayou Pump Station	Sims Bayou Pump Station	571P	K

BIDS: This project was advertised for bidding on March 9, 2018. Bids were received on April 12, 2018. The four (4) bids are as follows:

<u>Bidder</u>	<u>Bid Amount</u>
1. Harper Brothers Construction, LLC	\$7,192,912.00
2. Fused Industries, LLC	\$7,252,164.19
3. Reytex Construction Resources, Inc.	\$7,426,857.60
4. Resicom, Inc	\$8,743,351.00

AWARD: It is recommended that this construction contract be awarded to Harper Brothers Construction, LLC with a low bid of \$7,192,912.00 and Addendum Numbers 1, 2 and 3 be made a part of this Contract.

PROJECT COST: The total cost of this project is \$9,073,900.00 to be appropriated as follows:

Bid Amount	\$7,192,912.00
Contingencies	\$359,645.60
Testing Services	\$250,000.00
CIP Cost Recovery	\$1,078,942.40
Construction Phase Engineering Services	\$192,400.00

Testing Services will be provided by Geoscience Engineering and Testing, Inc. under a previously approved contract.

Construction Phase Engineering Services will be provided by Lockwood, Andrews & Newnam, Inc. under a previously approved contract.

HIRE HOUSTON FIRST: The proposed contract requires compliance with the City's 'Hire Houston First' (HHF) ordinance that promotes economic opportunity for Houston business and supports job creation. In this case Harper Brothers Construction, LLC is a designated HHF company, but they were the successful awardee without application of the HHF preference.

PAY OR PLAY PROGRAM: The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the Contractor provides benefits for some employees but will pay into the Contractor Responsibility Fund for others, in compliance with City policy.

M/WSBE PARTICIPATION: The contractor has submitted the following proposed program to satisfy the 12% MBE goal and 7% WBE goal for this project.

	<u>MBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.	Professional Traffic Control, LLC	Traffic Control and Flaggers	\$61,139.75	0.85%
2.	GMJ Paving Company, LLC	Asphalt	\$103,577.93	1.44%
3.	CZ Construction, LLC	Sliplining	\$170,472.01	2.37%
4.	Rosales R. Trucking	Trucking	\$136,665.33	1.90%
5.	MVA Construction, LLC	Paving	<u>\$148,893.28</u>	<u>2.07%</u>
		TOTAL	\$620,748.30	8.63%

	<u>WBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.	Karami Plumbing & Construction Supply, LLC	Pipe and Pipe Accessories	<u>\$503,503.84</u>	<u>7.00%</u>
		TOTAL	\$503,503.84	7.00%

	<u>SBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1.	Mickie Service Company, Inc.	TS&V	\$8,631.49	0.12%
2.	Contractors Paving Supply, LLC	Concrete Accessories	\$24,455.90	0.34%
3.	KMA Contractors Services, Inc.	Structures	\$143,858.24	2.00%
4.	Gulf Coast Grouting, Inc.	Grout	\$41,718.89	0.58%
5.	Automation Nation, Inc.	SCADA	<u>\$23,736.61</u>	<u>0.33%</u>
		TOTAL	\$242,401.13	3.37%

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project.

There is a total of eight (8) parcels to be acquired prior to the final phase of construction, six (6) parcels on Bastrop Street from Texas to Preston and two (2) parcels along IH-10 at Hunting Bayou, where acquisition is necessary. All known rights-of-entry required for the project have been acquired.

Carol Ellinger Haddock, P.E., Director
Houston Public Works

WBS No. S-000900-0163-3 and S-000900-0163-4

Amount of Funding:

\$9,073,900.00 from Fund No. 8500 - Water and Sewer System Consolidated Construction Fund.

Contact Information:

R. Jeff Masek, P.E., CCM
Assistant Director, Capital Projects
(832) 395-2387

ATTACHMENTS:**Description**

Signed Coversheet
Maps

Type

Signed Cover sheet
Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:
District F, District H, District I, District J, District K
Item Creation Date: 5/24/2018

20VNP19 Contract Award / Harper Brothers Construction, LLC

Agenda Item#:

Background:

SUBJECT: Contract Award for Miscellaneous Large Diameter Water Line Improvements – Package 1

RECOMMENDATION: (SUMMARY) Accept low bid, award Construction Contract and appropriate funds.

PROJECT NOTICE/JUSTIFICATION: This project is part of the City's Surface Water Transmission program and is required to maintain, improve and replace existing large diameter water lines and to meet Harris-Galveston Coastal Subsidence District's Legislative mandate to regulate the withdrawal of groundwater.

DESCRIPTION/SCOPE: This project consists of construction and rehabilitation of large diameter water transmission lines from 24-inch to 84-inch by combination of open cut, tunneling, sliplining and rehabilitation construction methods, including valves, connections and appurtenances at seven (7) different sites throughout the City. The Contract duration for this project is 1050 calendar days. This project was designed by Lockwood, Andrews & Newnam, Inc. and Nathelyne A. Kennedy & Associates.

LOCATION: The project locations are:

Site Description	Site Location	Key Map Grid	Council District
Site 1 – 24-/30-inch Water Line near Minute Maid Park	Along Texas St and Preston St from west of Bastrop St to Bastrop St, along Bastrop St between Texas and Preston, and along Prairie St to east of Emancipation Ave	493R	I
Site 2 – 24-inch Water Line at Bellaire Blvd and Hillcroft Ave	Across Bellaire Blvd at Hillcroft Ave	531E	J
Site 3 – 42-inch Water Line at Hunting Bayou and I-10	Across Hunting Bayou at I-10	496F	I
Site 4 – 48-inch Water Line at W. Bellfort & Knight Rd	At intersection of W. Bellfort and Knight Rd	532V	K
Site 5 – 30-inch Water Line along W. Bellfort Ave and US59	Across US59 along W. Bellfort Ave	569C	F, K
Site 6 – 84-inch Water Line on Kelley St	Along Kelley St from east of Jensen to west of US59	454N	H
Site 7 – Meter Station at Sims Bayou Pump Station	Sims Bayou Pump Station	571P	K

BIDS: This project was advertised for bidding on March 9, 2018. Bids were received on April 12, 2018. The four (4) bids are as follows:

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4. Resicom, Inc	\$8,743,351.00

AWARD: It is recommended that this construction contract be awarded to Harper Brothers Construction, LLC with a low bid of \$7,192,912.00 and Addendum Numbers 1, 2 and 3 be made a part of this Contract.

PROJECT COST: The total cost of this project is \$9,073,900.00 to be appropriated as follows:

Bid Amount	\$7,192,912.00
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Testing Services	\$250,000.00
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M/WSBE PARTICIPATION: The contractor has submitted the following proposed program to satisfy the 12% MBE goal and 7% WBE goal for this project.

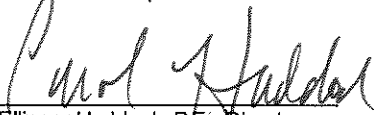
<u>MBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
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5. MVA Construction, LLC	Paving	<u>\$148,893.28</u>	<u>2.07%</u>
TOTAL		\$620,748.30	8.63%

<u>WBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
1. Karami Plumbing & Construction Supply, LLC	Pipe and Pipe Accessories	<u>\$503,503.84</u>	<u>7.00%</u>
TOTAL		\$503,503.84	7.00%

<u>SBE - Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Contract</u>
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4. Gulf Coast Grouting, Inc.	Grout	\$41,718.89	0.58%
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TOTAL		\$242,401.13	3.37%

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project.

There is a total of eight (8) parcels to be acquired prior to the final phase of construction, six (6) parcels on Bastrop Street from Texas to Preston and two (2) parcels along IH-10 at Hunting Bayou, where acquisition is necessary. All known rights-of-entry required for the project have been acquired.


Carol Ellinger Haddock, P.E., Director
Houston Public Works

WBS No. S-000900-0163-3 and S-000900-0163-4

Amount of Funding:

\$9,073,900.00 from Fund No. 8500 - Water and Sewer System Consolidated Construction Fund.

Contact Information:

R. Jeff Masek, P.E., CCM
Assistant Director, Capital Projects
(832) 395-2387

ATTACHMENTS:**Description****Type**

Maps

Backup Material

OBO Docs (HHF, Vendor Info & Letters of Intent)

Backup Material

Form A Contractor's Submission List (doc 00452)

Backup Material

Form B (Fair Campaign Ord.)

Backup Material

Affidavit of Ownership (doc 0455)

Backup Material

Tax Report

Backup Material

Pay or Play (Pop 1-3)

Backup Material

Bid Extension Letter

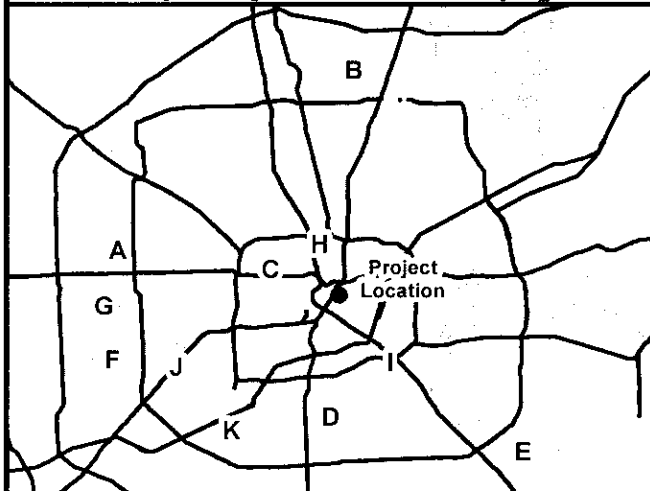
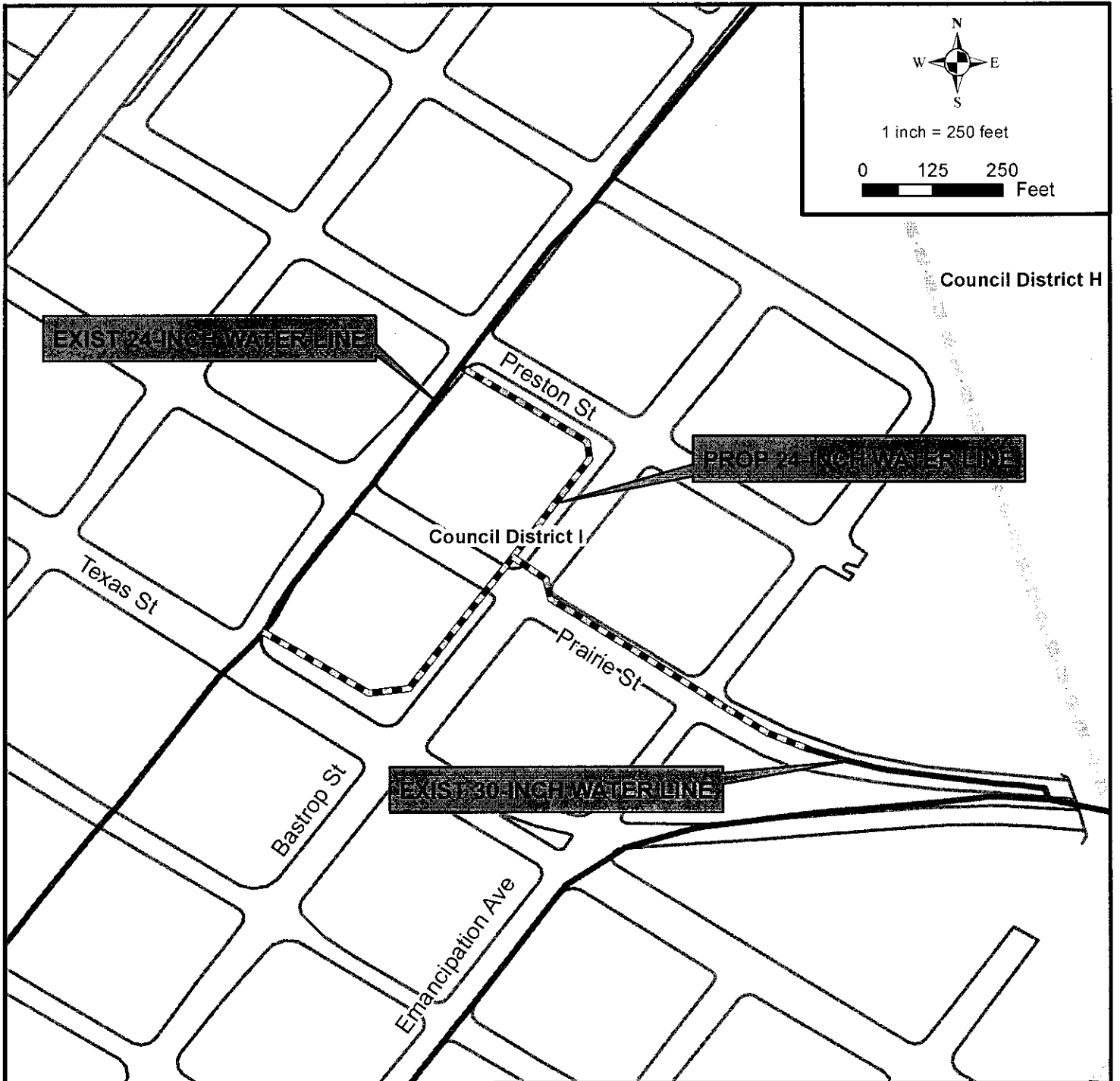
Backup Material

Form 1295

Backup Material

SAP Documents

Financial Information



CITY OF HOUSTON PROJECT LOCATION MAP

WBS No. S-000900-0163-4

Miscellaneous Large Diameter
Water Line Improvements - Package 1
Location 1 - 24" WL at Minute Maid Parking Lot

KEY MAP GRID(S): 493R
COUNCIL DISTRICT(S): I

— S-000900-0163

— LD Water Line

Council District Boundary

Misc. LDWL Improvements - Pkg 1
2925 Briarpark Drive
Houston, Tx 77042





1 inch = 250 feet

0 125 250 Feet

Dunlap St

Hillcroft Ave

Dastwood Dr

Ashcroft St

Council District J

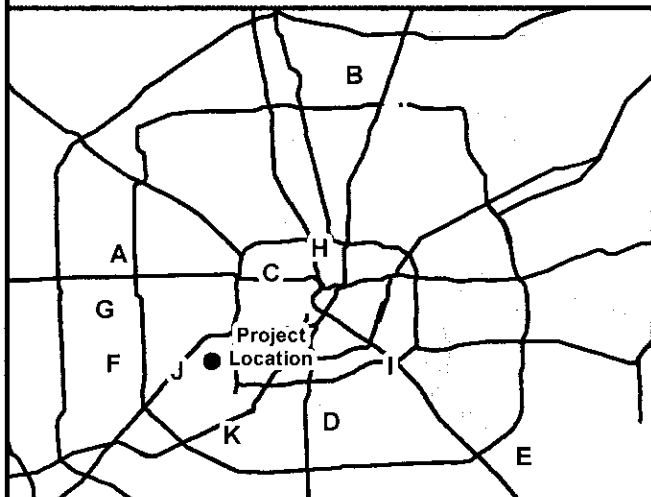
PROP 24-INCH WATER LINE

Bellaire Blvd

EXIST 24-INCH WATER LINE

Leader St

Edgemoor Dr



CITY OF HOUSTON PROJECT LOCATION MAP

WBS No. S-000900-0163-4

Miscellaneous Large Diameter
Water Line Improvements - Package 1
Location 2 - 24" WL at Bellaire and Hillcroft

KEY MAP GRID(S): 531E
COUNCIL DISTRICT(S): J

— S-000900-0163

— LD Water Line



Misc. LDWL Improvement - Pkg 1
2925 Briarpark Drive
Houston, Tx 77042





1 inch = 250 feet

0 125 250 Feet

Hunting Bayou

Council District I

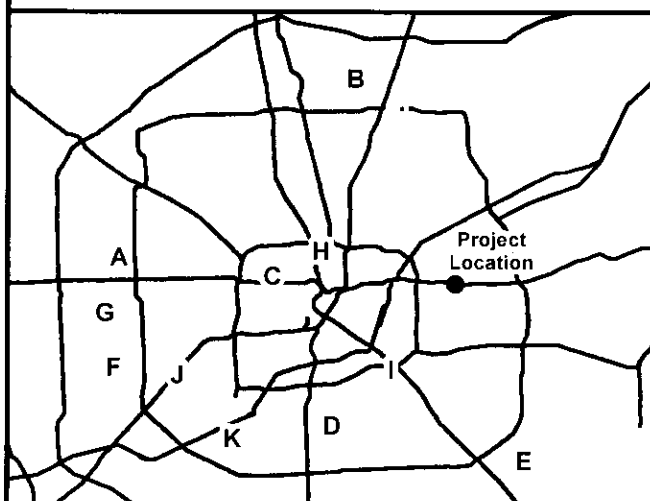
I-10 West Feeder Road

Interstate 10

PROPOSED 42-INCH WATER LINE

EXISTING 42-INCH WATER LINE

Council District E



CITY OF HOUSTON PROJECT LOCATION MAP

WBS No. S-000900-0163-4

Miscellaneous Large Diameter
Water Line Improvements - Package 1
Location 3 - 42" WL at Hunting Bayou

KEY MAP GRID(S): 496E & 496F
COUNCIL DISTRICT(S): I

--- S-000900-0163

— LD Water Line
— Council District Boundary

Misc. LDWL Improvements - Pkg 1
2925 Briarpark Drive
Houston, Tx 77042





1 inch = 250 feet

0 125 250 Feet

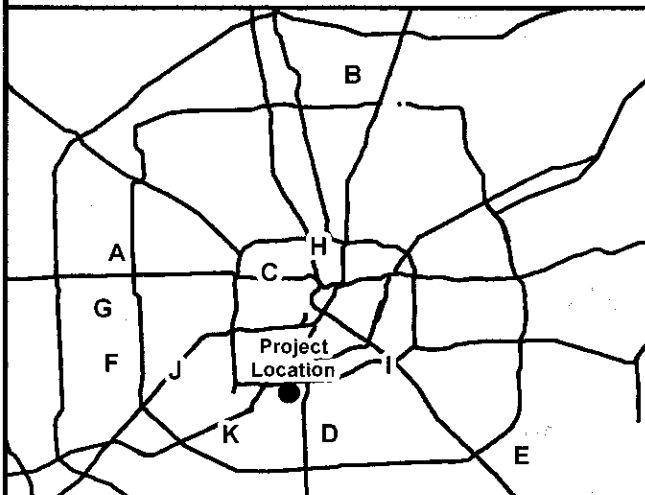
Knight Rd

Council District K

W. Bellfort Rd

EXIST 48" INCH WATER LINE

EXIST 48" INCH WATER LINE
TO BE REINFORCED



CITY OF HOUSTON PROJECT LOCATION MAP

WBS No. S-000900-0163-4

Miscellaneous Large Diameter
Water Line Improvements - Package 1
Location 4 - 48" WL at Bellfort and Knight

KEY MAP GRID(S): 532V
COUNCIL DISTRICT(S): K

— S-000900-0163

— LD Water Line

Misc. LWDL Improvements - Pkg 1
2925 Briarpark Drive
Houston, Tx 77042





1 inch = 250 feet

0 125 250 Feet

Council District F

EXISTING 30-INCH WATER LINE

US-59

Council District J

W. Bellfort Ave

PROP SHIPPING LIMITS

Council District K

EXISTING 24-INCH WATER LINE

Roark Rd

US-59

CITY OF HOUSTON

PROJECT LOCATION MAP

WBS No. S-000900-0163-4

Miscellaneous Large Diameter
Water Line Improvements - Package 1
Location 5 - Bellfort and US-59

KEY MAP GRID(S): 569C

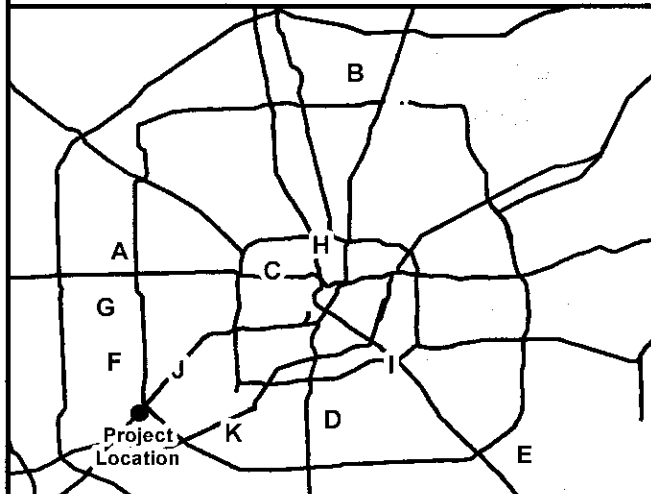
COUNCIL DISTRICT(S): F & K

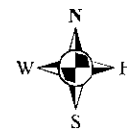
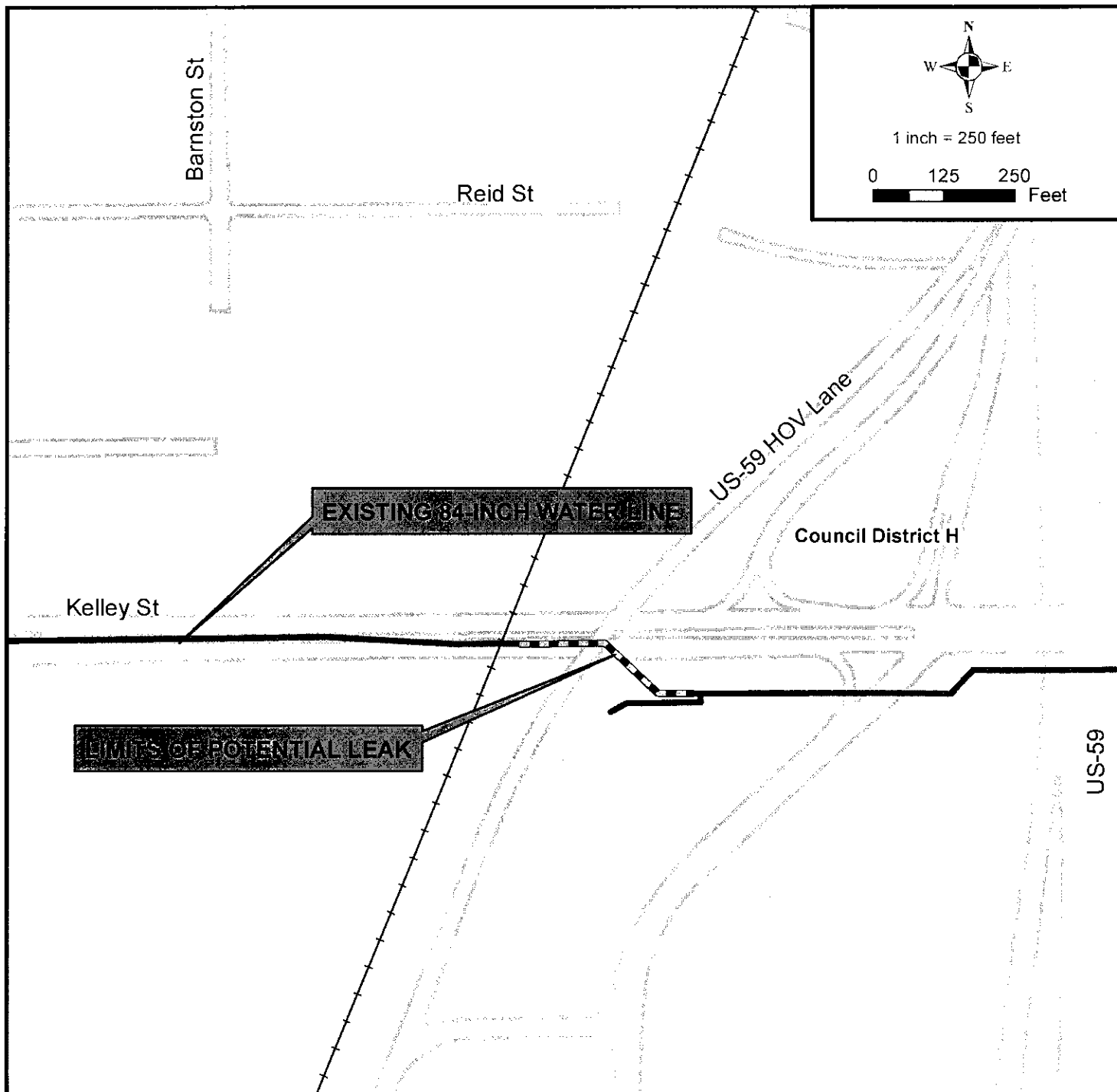
--- S-000900-0163

— LD Water Line

Council District Boundary

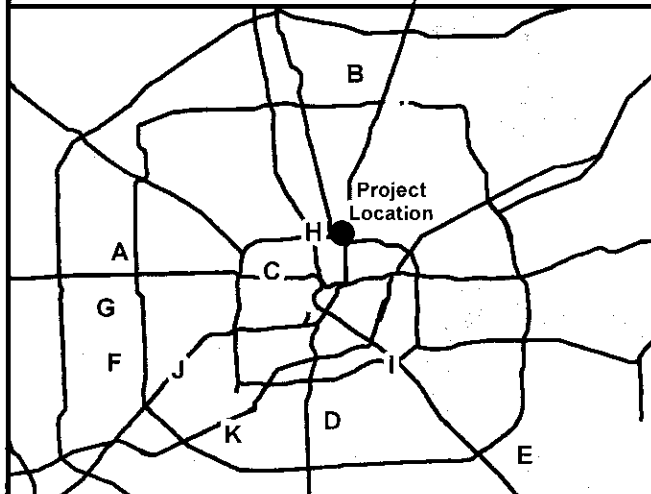
Misc. LDWL Improvements - Pkg 1
2925 Briarpark Drive
Houston, Tx 77042





1 inch = 250 feet

0 125 250 Feet



CITY OF HOUSTON PROJECT LOCATION MAP

WBS No. S-000900-0163-4

Miscellaneous Large Diameter
Water Line Improvements - Package 1
Location 6 - 84" WL on Kelley

KEY MAP GRID(S): 454N
COUNCIL DISTRICT(S): H

— S-000900-0163

— LD Water Line

Misc. LDWL Improvements - Pkg 1
2925 Briarpark Drive
Houston, Tx 77042





1 inch = 250 feet

0 125 250 Feet

Council District K

SIMS BAYOU

EXISTING TIE-IN STATION
TO BE REPLACED

Oakham St

Darlinghurst Dr

Darlinghurst Dr

Caradine St

Heatherbloom Dr

Croquet Ln

CITY OF HOUSTON PROJECT LOCATION MAP

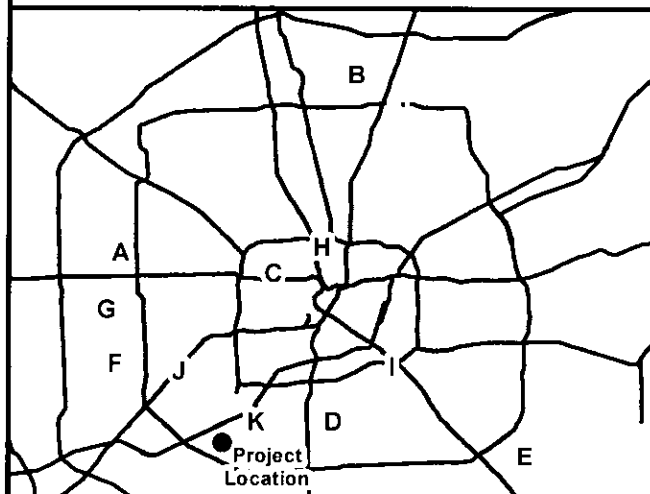
WBS No. S-000900-0163-4

Miscellaneous Large Diameter
Water Line Improvements - Package 1
Location 7 - Sims Bayou Pump Station

KEY MAP GRID(S): 571P
COUNCIL DISTRICT(S): K

— LD Water Line

Misc. LDWL Improvements - Pkg 1
2925 Briarpark Drive
Houston, Tx 77042





CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

District E

Item Creation Date: 8/10/2018

PRD - Motion Set Date Public Hearing CenterPoint Aerial
Easement at Eisenhower Park

Agenda Item#: 33.

Summary:

SET A PUBLIC HEARING DATE relating to providing an aerial easement on the south side of San Jacinto River and being a portion of Dwight D. Eisenhower Park - **DISTRICT E - MARTIN**
HEARING DATE - 9:00A.M. - WEDNESDAY - SEPT EMBER 26, 2018

Background:

Dwight D. Eisenhower Park is owned by the City of Houston and operated and maintained by Harris County Precinct 1. The Park contains approximately 682 acres of land generally located on the south coast of Lake Houston, with an address of 13400 Aqueduct Road, Houston, Texas 77044.

CenterPoint Energy Houston Electric, LLC proposed to take an aerial easement starting at 16 ft. above ground, approximately 0.3888 acres (16,936 SF) on the south side of San Jacinto river alongside its existing fee property. The proposed aerial easement is necessary for safe and reliable delivery of electric power to the greater Houston Metropolitan Area, including Houston Intercontinental Airport.

The necessity of the additional aerial easement is directly related to the erosion of San Jacinto River caused by Hurricane Harvey. Texas Parks and Wildlife Code Chapter 26 requires the City to publish three public notices and hold a public hearing prior to authorizing the use or taking of park land for non-park purposes. Notices will be published in the Houston Chronicle on September 3, 2018, September 10, 2018, and September 17, 2018.

The proposed date of the public hearing is Wednesday, September 26, 2018 at 9:00 a.m. in City Council Chambers, 901 Bagby Street, 2nd Floor, Houston, Texas. At a later date, an ordinance will be presented to Council to make findings relating to the public hearing and to convey the easement to CenterPoint.

Contact Information:

Luci Correa

Phone: 832-395-7057

Email: Luci.Correa@houstontx.gov



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date: 8/15/2018

20UPA367 Revisions to Chapters 9 and 13, Infrastructure Design Manual

Agenda Item#: 34.

Summary:

RESOLUTION accepting New Chapters 9 and 13 of the City of Houston Infrastructure Design Manual

TAGGED BY COUNCIL MEMBERS STARDIG and KNOX

This was Item 17 on Agenda of August 23, 2018

Background:

A RESOLUTION ACCEPTING NEW CHAPTERS 9 AND 13 OF THE CITY OF HOUSTON INFRASTRUCTURE DESIGN MANUAL.

Recommendation:

Adopt a Resolution accepting the revisions made to Chapters 9 (Stormwater Design Requirements) and 13 (Stormwater Design Quality Requirements) of the Infrastructure Design Manual (IDM) by Houston Public Works.

Description:

After the devastating flood losses in Hurricane Harvey, the 2016 Tax Day Flood and the 2015 Memorial Day Flood, the City of Houston has resolved to take every opportunity to make the City more resilient. Mayor Turner organized a Redevelopment and Drainage Task Force composed of stakeholders from building and development, engineering, and neighborhoods and charged it with reviewing ways to make construction in the City more resilient. The Redevelopment and Drainage Task Force held numerous meetings and evaluated infrastructure design requirements.

The Redevelopment and Drainage Task Force made recommendations to the various construction standards for Detention, Fill, and Encroachments. Many of the recommendations necessitated changes to the adopted International Building Code, contained in a separate Ordinance. This Resolution would make some modifications to the Infrastructure Design Manual in three primary areas which include:

- Detention
 - Eliminating detention credit for existing impervious cover under prior standard when redevelopment occurs.
 - Provide detention credits for low impact development techniques.
 - Opportunity for use of developer participation contract.
- Fill

- Require demonstration of no-impact on sheet flow for all developments.
- Clarified contradictory language to allow preservation of existing drainage patterns.
- Encroachments into drainage areas
 - Add calculations and drawings for design of street parking pads over existing drainage ditches.

Whereas the Director of Houston Public Works is fully authorized to promulgate and update the Infrastructure Design Manual, the Director is seeking City Council's concurrence with these revisions in light of the significant impact that Hurricane Harvey has had on Houston and Houstonians.

Houston Public Works (HPW) presented the proposed changes to Chapter 9 and 13 of the Infrastructure Design Manual at the May 29, 2018 Transportation, Technology, & Infrastructure (TTI) council meeting and provided an update at the July 23, 2018 TTI meeting. HPW conducted a public outreach campaign during the months of June and July 2018. HPW provided information to the public about the proposed changes on the www.houstonrecovers.org website, hosted or participated in 10 community meetings attended by over 450 members of the public, conducted an online survey with over 450 responses and collected over 150 detailed comments. Over 81% of survey respondents strongly agreed or agreed that tougher storm water regulations are needed to reduce the risk of flooding in Houston.

Location:

The proposed revisions to Chapters 9 and 13 of the Infrastructure Design Manual will impact construction city wide.

Action Recommended:

It is recommended that City Council adopt a resolution accepting the revisions to Chapters 9 and 13 of the Infrastructure Design Manual.

Carol Ellinger Haddock, P.E.

Director

Houston Public Works

Contact Information:

Christon Butler

Deputy Director, Houston Permitting Center

Phone: (832) 394-9400

Jamila C. Johnson, P.E., CFM

Infrastructure Policy Manager

Phone: (832) 394-9380

ATTACHMENTS:

Description

Coversheet
Resolution
Changes to CH 9
Changes to CH 13

Type

Signed Cover sheet
Ordinance/Resolution/Motion
Backup Material
Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/21/2018

ALL

Item Creation Date: 8/15/2018

20UPA367 Revisions to Chapters 9 and 13, Infrastructure Design Manual

Agenda Item#: 18.

Summary:

NOT A REAL CAPTION

RESOLUTION accepting new Chapters 9 and 13 of the City of Houston Infrastructure Design Manual

Background:

A RESOLUTION ACCEPTING NEW CHAPTERS 9 AND 13 OF THE CITY OF HOUSTON INFRASTRUCTURE DESIGN MANUAL.

Recommendation:

Adopt a Resolution accepting the revisions made to Chapters 9 (Stormwater Design Requirements) and 13 (Stormwater Design Quality Requirements) of the Infrastructure Design Manual (IDM) by Houston Public Works.

Description:

After the devastating flood losses in Hurricane Harvey, the 2016 Tax Day Flood and the 2015 Memorial Day Flood, the City of Houston has resolved to take every opportunity to make the City more resilient. Mayor Turner organized a Redevelopment and Drainage Task Force composed of stakeholders from building and development, engineering, and neighborhoods and charged it with reviewing ways to make construction in the City more resilient. The Redevelopment and Drainage Task Force held numerous meetings and evaluated infrastructure design requirements.

The Redevelopment and Drainage Task Force made recommendations to the various construction standards for Detention, Fill, and Encroachments. Many of the recommendations necessitated changes to the adopted International Building Code, contained in a separate Ordinance. This Resolution would make some modifications to the Infrastructure Design Manual in three primary areas which include:

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 - Eliminating detention credit for existing impervious cover under prior standard when redevelopment occurs.
 - Provide detention credits for low impact development techniques.
 - Opportunity for use of developer participation contract.
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 - Require demonstration of no-impact on sheet flow for all developments.
 - Clarified contradictory language to allow preservation of existing drainage patterns.
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 - Add calculations and drawings for design of street parking pads over existing drainage ditches.

Whereas the Director of Houston Public Works is fully authorized to promulgate and update the Infrastructure Design Manual, the Director is seeking City Council's concurrence with these revisions in light of the significant impact that Hurricane Harvey has had on Houston and Houstonians.

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Location:

The proposed revisions to Chapters 9 and 13 of the Infrastructure Design Manual will impact construction city wide.

Action Recommended:

It is recommended that City Council adopt a resolution accepting the revisions to Chapters 9 and 13 of the Infrastructure Design Manual.



Carol Ellinger Haddock, P.E.
Director
Houston Public Works

Contact Information:

Christon Butler
Deputy Director, Houston Permitting Center
Phone: (832) 394-9400

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Infrastructure Policy Manager
Phone: (832) 394-9380

ATTACHMENTS:

Description

RESOLUTION (draft)

Type

Ordinance/Resolution/Motion

City of Houston, Texas, Resolution No. 2018- _____

A RESOLUTION ACCEPTING NEW CHAPTERS 9 AND 13 OF THE CITY OF HOUSTON INFRASTRUCTURE DESIGN MANUAL.

* * * * *

WHEREAS, following Hurricane Harvey, the Mayor organized a Redevelopment and Drainage Task Force (the "Task Force"), composed of stakeholders from building and development, engineering and neighborhoods, and charged it with reviewing methods to make construction in the City more resilient; and

WHEREAS, the Task Force held public meetings to consider the issues in development and the current regulations; and

WHEREAS, the Task Force completed its work and presented the findings to the Transportation, Technology, and Infrastructure Committee of City Council on May 29, 2018; and

WHEREAS, the Task Force made recommendations for changes to the Infrastructure Design Manual and the International Building Code (local amendments) to facilitate resilient building that maintains opportunities for the use of and construction on private property; and

WHEREAS, Houston Public Works Department (the "Department") has revised relevant chapters of the Infrastructure Design Manual; and

WHEREAS, a public comment period of 60 days, expiring on July 31, 2018 was held, and comments on the Task Force recommendation were considered during that time; and

WHEREAS, the Department has made revisions to Chapter 9, Stormwater Design Requirements, and Chapter 13, Stormwater Design Quality Requirements and requests City Council's acceptance of these revisions; and

WHEREAS, the Director of the Department is fully authorized to promulgate and update the Infrastructure Design Manual and is seeking City Council's concurrence with these revisions in light of the significant impact that Hurricane Harvey has had on Houston and Houstonians; **NOW, THEREFORE**,

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HOUSTON, TEXAS:

Section 1. That the findings and recitals contained in the preamble of this Resolution are declared to be true and correct and are hereby adopted and made a part of this Resolution.

Section 2. That the City Council accepts the new Chapter 9, Stormwater Design Requirements, and Chapter 13, Stormwater Design Quality Requirements, which are attached hereto as Exhibits A and B, respectively.

Section 3. That acceptance of these revisions does not affect, amend, or limit the authority of the Department to make necessary revisions to the Infrastructure Design Manual as authorized by City's Code of Ordinances.

Section 4. That this Resolution shall take effect at 12:01 a.m. on September 1, 2018.

PASSED AND APPROVED this _____ day of _____, 2018.

Mayor of the City of Houston

Prepared by Legal Department:

KM/ems 08/07/18

Requested by: Carol Ellinger Haddock, P.E.

Director, Houston Public Works Department

L.D. File No. 0611800218001



Senior Assistant City Attorney

City of Houston

Design Manual

Chapter 9

STORMWATER DESIGN REQUIREMENTS

Chapter 9

STORMWATER DESIGN REQUIREMENTS

9.01 CHAPTER INCLUDES

- A. Criteria for the design of storm drainage improvements.

9.02 POLICY

- A. Design Requirements.

1. Drainage criteria administered by the City of Houston and complemented by Harris County and the Harris County Flood Control District (HCFCD) for newly designed areas provides protection from Structural Flooding from a 100-year storm event. This is accomplished through application of various drainage enhancements, such as storm sewers, roadside ditches, open channels, detention and overland (sheet) run-off. The combined system is intended to prevent Structural Flooding from extreme events up to a 100-year storm.
2. Recognizing that each site has unique differences that can enhance the opportunity to provide proper drainage, the intent of these criteria is to specify minimum requirements that can be modified provided that the objective for drainage standards is maintained. For projects which require a site-specific approach and where unique engineering solutions will achieve drainage objective, a request for consideration of alternative standards (pipe flow, overland sheet flow, and detention storage) shall be submitted to the City of Houston Department of Public Works and Engineering, Office of the City Engineer (1002 Washington), for review and approval.

- B. Ponding in streets and roadside ditches of short duration is anticipated and designed to contribute to the overall drainage capacity of the system. Storm sewers and roadside ditch conduits should be designed considering a balance of capacity and economics. These conduits should be designed to convey less intense, more frequent rainfalls with the intent of allowing for traffic movement during these events. When rainfall events exceed the capacity of the storm sewer system, the additional runoff is intended to be conveyed or stored overland in a manner that reduces the threat of structural flooding.

- C. All Proposed New Development, or Redevelopment, or Site Modifications greater than 1-acre shall not alter existing or natural overland flow patterns and shall not increase or redirect existing sheet flow to adjacent private or public property. Sheet flow from the developed property shall discharge only to the abutting public R.O.W. Where the existing sheet flow pattern is blocked by construction (i.e. raising the site elevation) of the Development, the sheet flow shall be re-routed within the developed property to return flow to original configuration or to the public R.O.W. Except under special circumstances dictated by natural or existing drainage patterns, ~~no~~ no sheet flow from the developed property will be allowed to drain onto adjacent private property. No impact will be allowed onto adjacent property.

The estimated volume of displaced sheet flow shall be calculated and the rerouted flow pattern shall have adequate volume to provide that adjacent property is not impacted by the development. No sheet flow from the developed property will be allowed to drain (via sheet flow) onto the adjacent ROW. Any increased quantity discharge should only be discharged to the ROW at the approved point of connection (which have enough capacity to handle the discharged) via a subsurface internal drainage system.

- D. The City is a participant in the National Flood Insurance Program (NFIP). The flood insurance program makes insurance available at low cost where the municipal entity implements measures that reduce the likelihood of structural flooding. The design criteria in this chapter are provided to support the NFIP. All development located within the City limits shall comply with Chapter 19, FLOODPLAIN, of the Code of Ordinances.
- E. Approval of storm drainage is a part of the review process for planning and platting of a New Development, site plan review process for Redevelopments, and the permitting process for Site Modifications. Review and approval of plats is conducted by the Department of Planning and Development. Review of storm drainage is conducted by the Department of Houston Public Works and Engineering (PWE).
- F. The City will consider joint project funding with a private entity for construction of drainage systems that improve existing drainage infrastructure. The City's first priority will be to fund those projects included in the Capital Improvement Plan (CIP). Where feasible, City funding will be leveraged with other funding sources including private entities, civic organizations, and other public agencies (Harris County, HCFCD, Corps of Engineers, Housing and Community Development, and other funding sources). For drainage systems that have been identified as deficient and are not scheduled to receive funding in the current CIP, the City will consider authorizing improvements performed by the private entity which comply with the City's objectives, and may be a candidate for a Developer Participation Contract (DPC) contract.
- G. The criteria in this Chapter apply to all projects located in the City limits and to expanding utility districts and new utility districts located in the City's Extraterritorial Jurisdiction (ETJ). If the criteria conflicts with Harris County, HCFCD, Fort Bend County, Montgomery County or other jurisdictions, the more restrictive criteria shall govern.

9.03 REFERENCES

- A. Refer to the list of references in Chapter 1, General Requirements.
- B. National Weather Service Documents
 - 1. TP-40 Rainfall Frequency Atlas of the United States.
 - 2. Hydro-35; 5-to-60-Minute Precipitation Duration for the Eastern and Central United States.

3. National Oceanic and Atmospheric Administration (NOAA) - Atlas - Precipitation - Frequency Atlas of the United States (Texas) – Current Edition.

- C. Hydraulic Engineering Circular No. 22, (HEC-22), Current Edition, “Urban Drainage Design Manual”, Federal Highway Administration (FHWA).
- D. ASCE Manual and Reports of Engineering Practice No. 77, Design and Construction of Urban Stormwater Management Systems, Current Edition.
- E. HouStorm – The City of Houston’s version of The Texas Department of Transportation’s (TxDOT) ~~WinStorm~~ software. The program is available from the City.
- F. Harris County Flood Control District Policy, Criteria, and Procedure Manual (HCFCD Criteria Manual), 2010 or Current Edition.
https://www.hcfcd.org/media/1437/hcfcd_ppm_dec2010.pdf
- G. Texas Department of Transportation. (2011). Hydraulic Design Manual.

9.04 DEFINITIONS AND ACRONYMS

- A. Conduit – Any open or closed device for conveying flowing water.
- B. Continuity Equation:

$$Q = VA$$

Where: Q = discharge (cfs or cms)
 V = velocity (ft/sec or m/sec)
 A = cross sectional area of Conduit (square feet or square meters)
- C. Critical Elevation - The maximum hydraulic grade line elevation a system is allowed to exhibit when conveying the design rainfall. This elevation is related to the level of service of the primary system.
- D. Design Ponding Depth – The depth of water adjacent to an inlet during the design rainfall event. Depth is measured from the bottom of the inlet opening for curb opening or from the top of the grate openings. This depth is used in inlet capacity calculations.
- E. Design Rainfall Event – Rainfall intensity upon which the drainage facility will be sized.
- F. Development - (i) any activity that requires a subdivision plat or development plat pursuant to Code of Ordinances Chapter 42; (ii) the further subdivision of any reserve tract that is part of a subdivision plat approved by the city planning commission or pursuant to Article II of Chapter 42, the Code of Ordinances; or (iii) any activity that requires a construction permit. The term includes New Development and Redevelopment.

- 1. New Development – Development of open tracts of land in areas where the storm

drainage infrastructure has not been constructed and a drainage outlet must be extended to a channel under the jurisdiction of the HCFCF.

2. Redevelopment – A change in land use that alters the impervious surface from one type of Development to either the same type or another type, or green field, and alters the drainage patterns internally or externally to the Development. and takes advantage of the existing infrastructure in place as a drainage outlet.
 3. Site Modifications - A site improvement that alters the area of impervious surface, or a change in existing storm water collection, conveyance or runoff conditions for the developed site.
- G. Disturbed Area - ~~Disturbed area~~ means the existing surface has been altered by activity including, but not limited to, clearing, grubbing, demolition, grading, excavating and construction related activity (e.g. equipment staging, stockpiling of fill material and material storage areas), and construction support activity.
- GH. Drainage Area – The surface area determined by topography that contributes rainfall runoff to a point of interception. The drainage area represents the drainage system service area and is not limited by the project boundary or street R.O.W. The possibility of overland flow contributions from adjacent drainage areas during certain extreme events shall be considered for accurate assurance of level of service.
- HJ. Drainage Area Map – Service area map of the watershed or drainage system presented as specified in 9.07.B.4.
- IJ. FEMA – Federal Emergency Management Agency.
- JK. FIS – Flood Insurance Study, the formal document and associated models used to define the floodplain boundaries. An appraisal of the community's flood problems in a narrative that describes; a) the purpose of the study; b) historic floods; c) the area and flooding sources studied; d) the engineering methods employed. FIS serve as the basis for rating flood insurance and for regulating floodplain development and carrying out other floodplain management measures.
- KL. HCFCF – Harris County Flood Control District.
- LM. HouStorm – The City's version of TxDOT's ~~WinStorm~~ software. The program is available from the City.
- MN. Hydraulic Grade Line (HGL) - A line representing the pressure head available at any given point within the drainage system.
- O. Impervious Surface - Impervious surface means any area that has been compacted or covered such that it does not readily absorb water or does not allow water to percolate through to undisturbed underlying soil strata. Surface materials considered impervious shall include, but not be limited to, bricks, pavers, concrete, asphalt, compacted oil-dirt, compacted or

decomposed shale, oyster shell, gravel, or granite, and other similar materials. Surface features utilizing such materials and considered impervious shall include, but not be limited to, decks, foundations (whether pier and beam or slab), building roofs, parking and driveway areas, sidewalks, compacted or rolled areas, paved recreation areas, swimming pools, dry or wet detention ponds that don't allow percolation, and other features or surfaces that are built or laid on the surface of the land and have the effect of increasing, concentrating, or otherwise altering water runoff so that runoff is not readily absorbed.

NP. Manning's Equation:

$$V = (K/n) R^{2/3} S_f^{1/2}$$

Where: $K = 1.49$ for English units,
 1.00 for metric units

$V =$ velocity (ft./sec or m/sec)

$R =$ hydraulic radius (ft. or m) (area/wetted perimeter)

$S_f =$ friction slope (head loss/length) (101)

$n =$ 0.012 for corrugated profile-wall polyethylene pipe
 0.013 for concrete pipes,
 0.015 for concrete boxes,
 0.024 for CMP pipes

EQ. Overland Flow – Flow resulting from a rainfall event that is routed along surface streets or surface channels in a defined manner.

PR. Rainfall Frequency - Probability of a rainfall event of defined characteristics occurring in any given year at a given location. Information on Rainfall Frequency is published by the National Weather Service. For the purpose of storm drainage design, the following frequencies are applicable:

1. 2-year frequency - a rainfall intensity having a 50 percent probability of occurrence in any given year, that occurs on the average every 2 years over a long period of time.
2. 3-year frequency - a rainfall intensity having a 33 percent probability of occurrence in any given year, that occurs on the average every 3 years over a long period of time.
3. 5-year frequency - a rainfall intensity having a 20 percent probability of occurrence in any given year, that occurs on the average every 5 years over a long period of time.
4. 10-year frequency - a rainfall intensity having a 10 percent probability of occurrence in any given year, that occurs on the average every 10 years over a long period of time.
5. 25-year frequency - a rainfall intensity having a 4 percent probability of occurrence in any given year, that occurs on the average every 25 years over a long period of time.

6. 100-year frequency - a rainfall intensity having a 1 percent probability of occurrence in any given year, that occurs on the average every 100 years over a long period of time.

QS. Rational Method - A method for calculating the peak runoff for a drainage system using the following equation for runoff:

$$Q = I \times (CA)$$

Where: C = watershed coefficient
 A = area (acres)
 I = rainfall intensity (inches per hour)

RT. Sheet Flow – A shallow depth of runoff on a sloping and/or relatively flat surface that does not have a precisely defined bounding condition.

SU. Spread – Calculated only for design rainfall. The width of flow in the gutter, measured laterally from the roadway curb, approaching an inlet. In HouStorm this value is called the ponding width.

TV. Storm Sewer Junction Box - Precast or cast-in-place concrete, square or rectangular structure used to merge upstream pipes, accommodate changes in pipe size or direction, or provide service access to the storm sewer system by the addition of a circular manhole structure to the top of the junction box.

UW. –Structural Flooding – The Water Surface Elevation (WSE) from the storm event exceeds the finished slab elevation of the building (for pier and beam construction the top of first floor elevation), resulting in water entering the residential or commercial structure.

VX. Undeveloped Parcel - a parcel on which there are no structures at the time that a construction permit, subdivision plat or other city approval is applied for or required.

9.05 DESIGN REQUIREMENTS

Projects shall meet the standards of this chapter. Obtain approval from the The Office of the City Engineer (OCE) may grant for exceptions or deviations from these requirements. Exceptions or deviations may be granted on a project-by-project basis.

A. Construction of drainage facilities designed per this chapter shall meet requirements of the City of Houston Standard Specifications and Standard Details. HouStorm shall be used to perform 2-year and inlet design analysis and design of storm drainage systems as follows:

1. City CIP Projects – In conjunction with design analysis using HouStorm, designs shall comply with guidelines provided in Technical Paper No. 100 (TP-100), Storm Sewer Design Applications for the City of Houston, Texas, CIP Projects, February 2005, or the latest published date.
2. Private Projects within City Limits which include City funding participation.

3. 100% Privately-funded Project located in City Limits – HouStorm preferred but alternative equivalent analysis procedures will be accepted.
 4. Projects in New or Expanding Utility Districts located in City's ETJ - HouStorm preferred but alternative equivalent analysis procedures will be accepted.
- B. Determination of Runoff.
1. Design Rainfall Events.
 - a. Rainfall Duration:
 - (1) For design purposes, the rainfall duration for drainage areas less than 200 acres will be no less than 3 hours in duration.
 - (2) For design purposes, the rainfall duration for drainage areas more than 200 acres will be no less than 6 hours in duration.

Rainfall Intensity:

- (1) Intensity Duration Frequency (IDF) Curves. Figure 9.1, City IDF Curves, depicts the intensity-duration curves to be used for storm sewer and roadside ditch design in the City and the ETJ. These curves were derived from the National Weather Service publications referenced in this Chapter.
- (2) Calculate Intensity: The intensity calculation is based on duration equal to the time of concentration. The intensity is calculated as follows:

$$I = b / (d + T_c)^e$$

Where b, d, and e are coefficients dependent on the rainfall event, as provided in Table 9.1, below and are based on City depth- duration-frequency values.

Table 9.1
Rainfall Intensity Parameters

Rainfall Frequency	b	d	e
2-year	75.01	16.2	0.8315
3-year	77.27	17.1	0.8075
5-year	84.14	17.8	0.7881
10-year	93.53	18.9	0.7742
25-year	115.9	21.2	0.7808
100-year	125.4	21.8	0.7500

Note: The rainfall data presented above is the latest available as of ~~at~~ the

time date of Ch 9 issuance. The City may have adopted revised data not reflected in this table. It is the engineer's responsibility to ensure that current accepted rainfall intensity calculations is being utilized for the analysis.

2. Application of Runoff Calculation Models.

- a. Rational Method: The Rational Method will be used to estimate peak flows for individual drainage areas up to 200 acres in size, and for project areas up to 640 acres in size. Project areas greater than 200 acres must be broken down into smaller drainage areas for analysis, with each drainage area being less than 200 acres in size. The Rational Method will be used for design on areas served by storm sewers up to 640 acres in size.
- b. Runoff Watershed Modeling: For areas greater than 640 acres, use the methodology specified in the HCFCDD H&H Manual.
- c. Hydrograph Development Dynamic Conditions – For development of runoff hydrograph for use in dynamic modeling utilize Clark Unit Hydrograph Method.
- d. Hydrograph Development Static Conditions – For evaluation of detention volume the approved methodology for hydrograph development shall be based upon the NRCS Dimensionless Unit Hydrograph or Malcolm's Small Watershed Method.

3. Coefficients for the Rational Method.

a. Calculation of Runoff Coefficient.

- (1) The runoff coefficient C values in the rational method formula will vary based on the land use. Land use types and C values which can be used are as follows:

<u>Land Use Type</u>	<u>Runoff Coefficient (C)</u>
Residential Districts	
Lots more than 1/2 acre	0.35
Lots 1/4 - 1/2 acre	0.45
Lots less than 1/4 acre	0.55
Townhomes	0.60
Multi-Family areas	
Less than 20 Service Units/Acre	0.65
20 Service Units/Acre or Greater	0.80
Business Districts	0.80
Industrial Districts	
Light Areas	0.65
Heavy Areas	0.75
Railroad Yard Areas	0.30

Parks/Open Areas	0.18
Pavement/ROW	0.90

- (2) Alternatively, the runoff coefficient C in the Rational Method formula can be calculated from the equation:

$$C = 0.6Ia + 0.2$$

Where: C = watershed coefficient
 Ia = impervious area/total area

- (3) If the alternate form is to be submitted, the calculation of C shall be provided as part of the drainage calculations.

b. Determination of Time of Concentration.

Time of concentration can be calculated from the following formula:

$$TC = 10A^{0.1761} + 15$$

Where: TC = time of concentration (minutes)
 A = subarea (acres)

c. Sample Calculation Forms.

- (1) Figure 9.2, City of Houston Storm Sewer Calculation Form, is a sample calculation form for storm sewer systems.
- (2) Figure 9.3, City of Houston Roadside Ditch Worksheet, is a sample calculation form for roadside ditch systems.

4. Hydrograph Development.

Where necessary to calculate runoff hydrographs, the peak flow of the hydrograph should match the Rational Method peak flow as calculated above. The hydrograph should be calculated using the entire drainage area, the FIS rainfall distribution, Green & Ampt loss rates, and the Clark Unit Hydrograph (T_C & R) methodology. These methodologies are described in the HCFCD H&H Manual. For design and impact analyses, Green & Ampt loss parameters as included in the effective hydrologic model for the watershed, shall be taken from the following table, rather than using the values from the FIS models. Selection of the Clark Unit Hydrograph parameters will be done as follows: T_C will be calculated as described above, with a minimum value of 10 minutes, and the storage coefficient (R) will be selected such that the peak flow matches the rational method peak flow. There will be a different R value for each rainfall event.

Table 9.2: Green & Ampt Parameters by Soil Type
~~(reproduced values from TSARP white paper)~~

NOTE: DELETE TABLE BELOW

Soil Classification	Volume Moisture Deficit	Wetting Front Suction (inches)	Hydraulic Conductivity (in/hr)
Soil Texture			
Sand	0.417	1.95	9.276
Loamy Sand	0.402	2.41	2.354
Sandy Loam	0.412	4.33	0.858
Loam	0.436	3.50	0.520
Silt Loam	0.486	6.57	0.268
Sandy Clay Loam	0.330	8.60	0.118
Clay Loam	0.389	8.22	0.079
Silty Clay Loam	0.431	10.75	0.079
Sandy Clay	0.321	9.41	0.047
Silty Clay	0.423	11.50	0.039
Clay	0.385	12.45	0.024
Soil Group			
A (freely draining)	0.417	1.95	9.276
B (intermediate)	0.436	3.50	0.520
C (intermediate)	0.389	8.22	0.079
D (poorly draining)	0.385	12.45	0.024

C. Design of Storm Sewers.

1. General Considerations

- a. Drainage systems for curb-and-gutter pavement shall consist of underground closed conduits.
- b. City CIP Projects or New Development that is anticipated to become City infrastructure and R.O.W.: The City's Comprehensive Drainage Plan (CDP) may indicate that a larger diameter storm sewer is planned in the area proposed for paving improvements. The Engineering and Construction Division of PWE has information on proposed improvements and should be consulted for impact on New Development.

Private Drainage Systems: Storm sewers for private drainage systems should conform to the City Uniform Building Code for development within the City limits. The City recommends the contents of this chapter as a guideline for best practices for all storm sewers within the City or its ETJ.

2. Design Frequency.

- a. New Development: The Design Rainfall Event for sizing storm sewers in newly developed areas will be at minimum a 2-year rainfall event.
- b. Redevelopment: The existing storm drain (sewer, ditch) shall be evaluated using a 2-year rainfall event, assuming no development takes place. The storm drain shall then be evaluated for the 2-year rainfall event design with the Development in place.
 - (1) If the proposed Redevelopment has an equal or lesser amount of impervious surface and the existing storm drain (sewer, ditch) meets 2-year level of service, then no modifications to the existing storm drain are required
 - (2) If the proposed Redevelopment results in the hydraulic gradient of the existing storm drain below the gutter line, no improvements to the existing storm drain are required.
 - (3) If the analysis of the existing conditions finds that the existing storm drain is deficient (i.e. the hydraulic grade line is above the gutter line), the applicant should check with the City to see if a CIP or a DPC project is proposed that will require a capital contribution.

3. Velocity Considerations.

- a. Storm sewers should be constructed to flow in subcritical hydraulic conditions if possible.
- b. Minimum velocities should not be less than 3 feet per second with the pipe flowing full, under the design conditions.
- c. Maximum velocities at the storm sewer system outfall should not exceed 8 feet per second without use of energy dissipation at the outfall.
- d. Maximum velocities within storm sewers should not exceed 12 feet per second.

4. Pipe Sizes and Placement.

- a. Use storm sewer and inlet leads with at least 24-inch inside diameter or equivalent cross section. Single Family Residential projects, without sharing storm outfall with others, shall be permitted to use ~~a minimum 6-inch pipe.~~ Where the point of connection is through a curb, via a 4-inch schedule 40 pipe shall be used in within the R.O.W. Box culverts shall be at least 3 feet by 2 feet. Closed conduits; circular, elliptical, or box, shall be selected based on hydraulic principles and economy of size and shape.
- b. Larger pipes upstream should not flow directly, or indirectly (via inlet, junction box, manhole) into smaller pipes downstream unless construction constraints

prohibit the use of a larger pipe downstream, or the improvements are outfalling into an existing system, or the upstream system is intended for use as detention.

- c. Match crowns of pipe at any size change unless severe depth constraints prohibit.
 - d. Locate public storm sewers in public street R.O.W. or in approved easements. Back lot easements are discouraged and will require a variance from the City design standards.
 - e. Follow the alignment of the R.O.W. or easement when designing cast in place concrete storm sewers.
 - f. Conduits shall connect to manholes and inlets preferably on a straight alignment, however angled connections no greater than 10 degrees normal to the wall will be provided.
 - g. Center culverts in side lot storm sewer easements.
 - h. Minimum horizontal clearance between any storm pipe and box shall be at least 48-inches from exterior of the storm pipe or box to the exterior of the existing or proposed public or private utility and other appurtenances.
 - i. Minimum vertical clearance between any storm pipe or box and other crossing public or private utilities shall be at least 18-inches from exterior of the storm pipe or box to the exterior of the existing or proposed public or private utility.
5. Starting Water Surface and Hydraulic Gradient.
- a. The hydraulic gradient shall be calculated assuming the top of the outfall pipe as the starting water surface.
 - b. At drops in pipe invert, where the top of the upstream pipe be higher than the HGL, then the HGL shall be recalculated assuming the starting water surface to be at the top of pipe at that point.
 - c. For the Design Rainfall Event, the hydraulic gradient shall at all times be below the gutter line for all newly developed areas.
6. Manhole Locations.
- a. Use manholes at the following locations:
 - (1) Size or cross section changes.
 - (2) Inlet lead and conduit intersections.
 - (3) Changes in pipe grade.
 - (4) A maximum spacing of 700 feet measured along the conduit run.

- b. Use manholes for existing monolithic-concrete storm sewers at the same locations as above except for intersections of inlet leads unless a manhole is needed to provide maintenance access at those intersections.
 - c. Do not place manholes in driveways or in the street in front of or immediately adjacent to a driveway.
- 7. Inlets.
 - a. Locate inlets at low points in the gutter.
 - b. Valley gutters across intersections are not permitted.
 - c. Inlet spacing is a function of gutter slope. The minimum gutter slope shall comply with Chapter 10, Street Paving Design Requirements.
 - (1) For minimum gutter slopes, the maximum spacing of inlets shall result from a gutter run of 700-feet from high point in pavement or the adjacent inlet on a continuously graded street section, with a maximum of 1400-feet of pavement draining towards any one inlet location.
 - (2) Inlet location should be spaced to ensure that spread does not exceed one lane of the roadway for the design rainfall event.
 - (3) Residential Development: Maximum spacing of inlets shall result from a gutter run of 700-feet from high point in pavement to the adjacent inlet on a continuously graded street section, with a maximum of 1400-feet of pavement draining towards any one inlet location.
 - (4) Commercial Development: Maximum spacing of inlets shall result from a gutter run of 400-feet from high point in pavement to the adjacent inlet on a continuously graded street section with a maximum of 600-feet of pavement draining towards any one inlet location.
 - 5) Spread: Calculate 2-year rainfall flow approaching each inlet from each direction. Additional inlets may be required if the Spread exceeds the maximum allowable value. The Spread in a typical prismatic curb-and-gutter street may be calculated using the following relationships:

$$Q = (K_g/n)(S_x^{1.67})(S_o^{0.5})(T^{2.67}), \text{ and}$$

$$T = y/S_x$$

Where: K_g = 0.56 (US Customary Units) or 0.376 (SI Units),

n = Manning's roughness coefficient,

S_x = Transverse slope (or cross slope) (ft/ft),

S_o = Longitudinal pavement slope (gutter slope) (ft/ft),

T = Spread (ft), and

y = Ponded depth (ft).

(6) Allowable Spread:

- (a) On a residential street, the Spread shall be no greater than the distance from the curb to the center crown of the roadway.
- (b) For a roadway with two or more lanes in each direction, the Spread shall be no greater than the distance from the curb to the inside edge of the outside lane.
- (c) The Spread adjacent to an inlet shall be no greater than the point of intersection of the transverse pavement slope with the top of curb elevation (i.e., the maximum Design Ponding Depth).

- d. Use only City of Houston standard inlets (See Table 9.23).

Table 9.23*

STANDARD STORM SEWER INLETS

INLET	APPLICATION	NOMINAL CAPACITY	DWG. NOS.
Type A	Parking Lots/Small Areas	5.00 cfs	02632-01
Type B-B	Residential/Commercial	5.00 cfs	02632-04
Type C	Residential/Commercial	2.50 cfs	02632-06
Type C-1	Commercial	5.00 cfs	02632-06
Type C-2	Commercial	10.00 cfs	02632-06
Type C-2A	Commercial	10.00 cfs	02632-06
Type D	Parking Lots	4.00 cfs	02632-07
Type D-1	Small Areas	3.00 cfs	02632-08
Type E	Roadside ditches	10.00 cfs	02632-09,-10
Type H-2	Residential Commercial	4.00 cfs / 8.00 cfs (one / two sides)	02633-01,-02

* The nominal capacity values provided in Table 9.3 are to be used for initial sizing only. The actual Inlet size all shall be based on hydraulic analysis of the required inlet capacity. Inlet capacities are calculated using either orifice and or weir equations depending upon their location and a type of inlet openings with or without plates.

- e. Do not use beehive grate inlets or other specialty inlets.
- f. Do not use grate top inlets in unlined roadside ditch.
- g. Do not place inlets in the circular portion of cul-de-sac streets unless justification based on special conditions can be provided.

- h. Place inlets at the end of proposed pavement, if drainage will enter or leave pavement.
- i. Do not locate inlets adjacent to esplanade openings.
- j. For new residential development, locate inlets at the center of lots and drainage system with lot site layout such that inlets are not located within the driveway between the radius end points as defined by the driveway radius intersection with the curb or edge of pavement.
- k. Place inlets on side streets intersecting major streets, unless justification based on special conditions can be provided.
- l. For private development with internal site drainage, only one connection is permitted to any one inlet, and that connection (lead) shall be made to the back of the inlet. Connection shall not be made to the front face and to the short sides of the inlet unless approved by the City. Design the connection not to exceed the pipe capacity minus either the capacity listed in Table 9.3, Standard Storm Sewer Inlets, or calculated inlet inflow.
- m. For all new construction, convey public or private alleyway drainage to an inlet prior to entering the public street drainage system.
- n. For all new connections, the engineer shall be required to demonstrate that inlets for design storm events have adequate capacity based on ponding and available opening. For New Development, Redevelopment, or Site Modification or connections to curbside inlets, existing B inlets along or immediately downstream of said development shall be enlarged to BB inlets. ~~to curbside inlets, existing B inlets shall be enlarged to BB inlets. B inlets are not allowed.~~
- o. For inlet calculations reference the TXDOT Hydraulic Design Manual Chapter 10, Section 5, Storm Drain Inlets at <http://onlinemanuals.txdot.gov/txdotmanuals/hyd/index.htm>

D. Extreme Event Analysis

- ~~1. Frequency for consideration of overland flow shall consider extreme rainfall events (up to 100 year storm) which exceed the capacity of the underground storm sewer system resulting in ponding and overland flow from the Development to the primary outlet.~~

The design frequency for consideration of overland sheet flow will consider extreme storm events (up to 100 year storms). These events, which exceed the capacity of the underground storm sewer system and result in ponding and overland sheet flow, shall be routed to drain along street ROW or open areas and through the development to a

primary outlet.

2. An overland flow analysis of the proposed drainage system shall be prepared by the design engineer. The design engineer shall submit supporting calculations, exhibits, and drawings, which define the conveyance capacity of the roadway, define the flow paths of overland sheet flow and define the ponding depths of overland sheet flow.
 - a. Three analysis methods as presented in Technical Paper No. 101, Simplified 100-year Event Analyses of Storm Sewers and Resultant Water Surface Elevations for Improvement Projects in the City of Houston, Harris County, Texas Region will be acceptable to the City.
 - (1) Method 1: Hydraulic Grade Line (HGL) Analysis A simplified approach to analyze and control the 100-year water surface elevation (WSEL) can be achieved by designing the storm sewer system for the 2-year frequency rainfall event; imposing a 100-year frequency storm event on the proposed design; calculating the hydraulic grade for the 100-year frequency event for the proposed design; and adjusting the position of the HGL to not exceed the critical elevation by increasing the size of the proposed storm sewer for selective reaches.
 - (2) Method 2: $Q_t = Q_o + Q_c$
where Q_t is the total flow conveyed,
 Q_o is the overland flow component, and
 Q_c is the calculated flow in the conduit for the 2-year design event.
The overland flow component (Q_o) is computed by applying

Manning's Equation to calculate the flow across the critical street cross-section along the R.O.W. This method accounts for flow in the storm sewer and overland flow across the street crest, but does not account for street ponding or storage.
 - (3) Method 3: $Q_t = Q_o + Q_c + \Delta S/T$
where Q_t , Q_o , and Q_c are as defined above, and
 $\Delta S/T$ is the change in storage volume relative to time provided in the streets and adjacent area upstream of the point of interest being analyzed. This method uses a volumetric calculation based on a 100-year frequency storm event with a duration of 3-hours for developments less than 200 acre and 6-hours duration for developments over 200 acres. The Soil Conservation Service, TR-20 method is used to set a peak triangular hydrograph shape. This method accounts for flow in the storm sewer, overland flow across the street crest, and storage within the street and adjacent area.
 - b. Analysis using the U.S. Environmental Protection Agency's Stormwater Management Model (SWMM) will be acceptable to the City.

3. Relationship of Structures to Street: All structures shall be above the maximum ponding elevation anticipated resulting from the extreme event analysis
 - a. Barring conditions listed in 9.05.D.3.a and b, the maximum ponding elevation for the 100-year event at any point along the street shall not be higher than the natural ground elevation at the R.O.W. line.
 - b. For City CIP Projects, the maximum ponding elevations shall be no higher than 12 inches below the finished slab elevations, or, if the finished slab elevations are less than 12-inches above the natural ground elevations at the R.O.W., the ponding elevations shall be no higher than the natural ground elevations at the R.O.W. In instances where the maximum ponding elevation for the 100-year event is not within the natural ground elevation at the R.O.W. line, the engineer will add a note on the drawings indicating the rainfall frequency event is designed to be conveyed within the R.O.W.
 - c. For Development or Redevelopment by private entities, the post- project maximum WSE shall be no higher than the pre- project maximum WSE in surrounding areas, and proposed finished slab elevation shall be above the post-project maximum WSE. The Maximum Ponding Elevation is determined from the physical characteristics of an area, and may change as a result of the proposed Development. Where existing topographic conditions, project location within a special flood hazard area, and/or other site conditions preclude achieving this objective, the City will consider waiver of this requirement upon submittal of documentation and analysis prepared, signed, and sealed by a professional engineer,

registered in the State of Texas. Analysis shall demonstrate that structural flooding will not occur and will identify the rainfall frequency event that will be conveyed within the R.O.W. The limiting parameter will depend on project-specific conditions, and the most restrictive condition (the lowest ponded water elevation) shall govern.

4. Design Considerations:

Streets shall be designed so that consecutive high points in the street will provide for a gravity flow of drainage to the ultimate outlet. If a detention facility is designed to mitigate peak flows from the extreme event, the overland flow path shall carry the extreme event sheet flow to the detention facility. If the extreme event sheet flow must enter a receiving channel, the overland flow path shall carry the extreme event sheet flow to the channel. In the event that there is no overland flow path, or the overland flow path is insufficient to carry all of the extreme event sheet flow, the inlets and storm sewer at the downstream end of the overland flow path shall be sized to carry the extreme event sheet flow from the end of the overland flow path into the detention facility or receiving channel.

- a. The maximum depth of ponding at high points shall be 6-inches above top

of curb.

- b. The maximum depth of ponding at low points shall be 18-inches above top of curb.
- c. Provide a minimum 20-foot easement to accommodate sheet flow that is routed between lots or across reserve tracts in accordance with Section 5.07.C. Fence lines and other improvements shall not be constructed on or across dedicated drainage easements.
- d. A drawing(s) shall be provided to delineate extreme event flow direction through a Development and how this flow is discharged to the primary drainage outlet.

The extreme event flow path(s) shall be identified on a plan view drawing(s) such as the drainage area map. There will be multiple extreme event flow paths for most projects. A profile for each path should be shown. Where secondary paths join a primary path, the secondary path profile should extend at least one street high/low point downstream along the major flow path, until the maximum ponding elevation downstream of the confluence is lower than the maximum ponding elevation upstream of the confluence.

- e. The drawing for each path shall show a profile of the roadway (or overland flow path) from the upper reach of the drainage area to the primary drainage outlet. The drawing(s) shall be exaggerated vertical scale and shall include roadway profile at the gutter, ground profile at the R.O.W., all the parameters used to determine the maximum ponding elevations, the maximum ponding elevations, and the hydraulic gradient for the extreme event, or an alternative equivalent drawing accepted by the City. The drawing(s) should be separate from the plan and profile sheets, and should include the entire overland flow path on one sheet, if possible. The drawings are not required to include the storm sewer profile.

- 5. Evacuation Routes and Emergency Service Routes. This standard applies to routes designated by PWE for emergency evacuation and for routes where access by the emergency service vehicles is a public safety need. Ponding of surface runoff is not allowed in the highest travel lane (each direction) for the 100-year event. Exceptions to this standard based on technical infeasibility or cost limitations will require approval of the Director, Houston Public Works and Engineering Department, or his designated representative. This standard may be modified or exempted for locations in the 100-year floodplain.

E. Design of Open Channels.

- 1. Design Requirements and General Criteria.

- a. Open channels shall be designed according to methods described in the HCFCF Criteria Manual which can be accessed at www.hcfcd.org/dl_manuals.html and shall convey 100 year event.
 - b. Design standards for channel construction shall follow the requirements specified in the HCFCF Criteria Manual which can be accessed at www.hcfcd.org/dl_manuals.html.
 - c. Design standards for outfalls into channels shall conform to those in the HCFCF Criteria Manual which can be accessed at www.hcfcd.org/dl_manuals.html.
2. Determination of Water Surface Elevation (WSE).
- a. WSE shall be calculated using Manning's Equation and the Continuity Equation.
 - b. For the Design Rainfall Event, the water surface shall be calculated to remain 1' below the top of ~~within~~ banks.
3. Design of Culverts.
- a. Head losses in culverts shall conform to TxDOT Hydraulics Manual, Chapter 8, and Culverts.
 - b. Corrugated metal pipe will be approved only for railroad crossings.
 - c. For proposing Street Parking Pads over an existing ditch, the submitted plans must include the following:
 - (1) Include upstream and downstream ditches/area of the proposed culvert as necessary for drainage analysis.
 - (2) Include overall drainage area and sub-drainage areas, culvert type, size, slope, length and flow velocities (for 2 and 100 year event).
 - (3) Include a culvert hydraulic calculation and identify headwater elevations for 2-year and 100-year design events.
 - (4) Include a calculation for the existing and proposed ditch/culvert flows for 2-year and 100-year design events.
 - (5) Identify max ponding elevation (MPE with location) and provide a calculation for the existing and proposed ditch/culvert hydraulic grade lines (HGLs) for 2-year, 10-year, 25-year, and 100-year design events. Show no adverse impact to the area.
 - (6) Include a calculation for the existing and proposed ditch/culvert capacity (volume) for 2-year, 25-year, and 100- year design events. Show no adverse impact to the area.

(7) Drawing(s) must be sealed and signed by a professional Engineer Licensed in the State of Texas.

F. Design of Roadside Ditches.

1. Design Frequency.

- a. Roadside ditch design is permissible only for single family residential lots or commercial areas equal to or larger than 0.5 acres.
- b. The Design Rainfall Event for the roadside ditches shall be a minimum of 2- year rainfall.
- c. Design capacity for a roadside ditch shall be to a minimum of 0.5 feet below the edge of pavement or 0.5 feet below the natural ground at R.O.W. line, whichever is lower, including head loss across the culvert. Design Capacity calculations shall include head loss calculations for driveway and roadway culverts that are placed along the roadside ditch.
- d. The design must include an extreme event analysis to indicate that structures will not be flooded, and that maximum ponding elevation for the extreme event complies with Paragraph 9.05.D.3.

2. Velocity Considerations.

- a. For grass-lined sections, the maximum design velocity shall be 3.0 feet per second during the design event.
- b. A grass-lined or unimproved roadside ditch shall have side slopes no steeper than three horizontal to one vertical (3:1), or as soil conditions will permit.
- c. Minimum grades for roadside ditches shall be 0.1-foot per 100 feet.
- d. Calculation of velocity will use a Manning's roughness coefficient (n) of 0.045 for earthen sections and 0.025 for ditches with paved inverts.
- e. Use erosion control methods acceptable to the City when design velocities are expected to be greater than 3 feet per second.
- f. The top of bank shall not encroach beyond the City R.O.W. or within 2 feet of the edge of pavement.

3. Driveway and Roadway Crossings

- a. Culverts will be placed at all driveway and roadway crossings, and other locations where appropriate.

- b. Culverts shall be evaluated for inlet and outlet control, as well as normal depth. The highest of the three shall be designated as the computed headwater for design of the culvert section.
 - c. Roadside culverts are to be sized based on drainage area. The minimum culvert size shall be 24 inches inside diameter or equivalent 'cross section', ~~unless the option for multiple smaller size culverts is approved by the City Engineer.~~ For example, if the ditch is deeper than or equal to 29", the elliptical pipe with inside diameter of 19" x 30" can be used. ~~When requested, calculations~~ Calculations shall be provided for review. In the ETJ, the Regulations for Harris, County, Texas for the Construction of Driveways and/or Culverts on County Easements and R.O.W. shall govern.
 - d. Design capacity calculations shall include head loss calculations for driveway and roadway culverts that are placed along the roadside ditch.
 - e. Stormwater discharging from a ditch into a storm sewer system must be received by an appropriate structure (i.e., stubs with ring grates or Type E inlets).
4. Invert Protection.
- a. Ditch invert protection shall be used when velocities exceed 3 feet per second.
 - b. Ditch invert protection will be used at the upstream and downstream ends of all culverts.
5. Depth and Size Limitations.
- a. Maximum depth shall not exceed 4 feet from adjacent edge of pavement.
 - b. Roadside ditch bottoms shall be at least 2 feet wide, unless design analysis will support a narrower width.
 - c. Ditches in adjoining and parallel easements shall have top of bank not less than 2 feet from the outside easement line.
- G. Design of Outfalls: Outfalls from storm sewers or detention facilities that discharge directly into a channel or other HCFCD facility shall be designed and constructed in accordance with HCFCD criteria.
- H. Stormwater Detention.
- 1. The intention of Stormwater detention is to mitigate the effect of ~~the New Development, or Redevelopment,~~ or Site Modifications on an existing drainage system. Stormwater detention volume requirements are based on

~~increased impervious surface of the acreage of the disturbed area that results in impervious surface defined in this Chapter, and on existing impervious areas that are redeveloped.~~ Stormwater detention volumes are calculated at the minimum rates set forth in Paragraph 9.05.H.3.

2. Application of Detention.

- a. The use of on-site detention is required for all Developments within the City and for new or expanding utility districts within the City's ETJ. Detention may not be required if the City has developed detention capacity for a drainage watershed, and/or infrastructure improvements, to serve the drainage watershed in compliance with the requirements of this Chapter. Under these conditions, the City will consider a funding contribution in lieu of on-site detention volume constructed by the owner.
- b. Stormwater detention requirements are invoked for redevelopments that include disturbed area resulting in impervious surface. ~~change the quantity of impervious surface on the site or change the on-site (private) drainage system.~~
- c. If water from New Development, or Redevelopment, or Site Modification drains directly into a channel, or a roadside ditch maintained by HCFCD, TxDOT, or other entity, then HCFCD the requirements of HCFCD, TxDOT, or other entity will govern. ~~If New Development or Redevelopment drains directly to a roadside ditch, drainage ditch or storm sewer maintained by Harris County or TxDOT, then their respective criteria will govern.~~
- d. If the drainage system outfalls directly into a channel maintained by HCFCD, and the requirements of HCFCD include payment of an impact fee, then no further impact fee will be required by the City.
- e. A waiver of detention requirements may be requested if the following conditions are satisfied:

Development is located in an area determined by the City to not need detention due to (1) the geographic location in the watershed, (2) the Development's proximity to regional facilities, or (3) the capacity of the receiving outfall facilities. Such conclusion by the City shall be supported by submittal of a Hydraulic Report prepared, signed, and sealed by a professional engineer, registered in the state of Texas, to demonstrate compliance with the conditions stated in this Chapter. The hydraulic analysis shall consider (1) the current developed condition of the watershed of the Stormwater conveyance system, and (2) the fully developed condition of the watershed. The probable land use for the fully developed condition will be determined by the design engineer for

review and approval by the City. The hydraulic analysis shall demonstrate no negative impact to upstream or downstream conditions.

- f. The site subject to detention for purposes of redevelopment shall be determined by the boundary of the disturbed area plus any adjacent area that would increase runoff to the receiving drainage system as a result of the redevelopment, or any offsite sheet flow accepted by this redevelopment boundary.

3. Calculation of Detention Volume.

- a. Detention volume for Development areas is calculated on the basis of ~~increases to the~~ disturbed area that results in impervious surface ~~(including all disturbed area)~~ associated with the project development. ~~and existing conditions at the site.~~ Impervious surface includes all structures, roofs, swimming pools, foundations (whether pier and beam or slab), driveways, parking areas, patios/decks, walkways, compacted or rolled areas, etc. or similar development materials or land treatments that exist or will exist on the property.
- b. Single family residential (SFR) lots of 15,000 square feet in area or less: SFR Lots are exempt from detention if proposed Impervious Surface is less than or equal to 65 %. Detention volume of 0.20 acre feet per acre is required for Impervious Surface over 65%. Existing SFR lots of 15,000 square feet or less may be further subdivided and exempt from detention provided the proposed impervious surface remains less than or equal to 65%. If shared driveway is used, detention volume of 0.20 acre feet per acre is required. In other words, for projects that are platted to contain more than one lot and access to these individual lots is to be provided by a common or shared driveway, such as an access agreement, an access road, an permanent access easement (28' PAE) private alley or public alley, the detention requirements shall be calculated as follows:
- (1) Detention Requirement = 0.2 acre feet per acre of ~~increased-~~ impervious surface (including all disturbed area) ~~impervious surface over 65% of the project area;~~
 - (2) The area of the common or shared driveway, the access easement, a permanent access easement (28'PAE) access road, private alley or public alley, ~~etc. or similar accessway by any other name,~~ must be included in the calculation of the project area.
 - (3) Any project when a shared driveway is used, subsurface drainage system is required. No sheet flow to the ROW is allowed.
- c. Areas less than one acre and not subject to 9.05(H)(3)b: Detention volume will be required at 0.20 acre-feet per acre of ~~increased-~~ disturbed area that results in impervious surface ~~(including all disturbed area)~~. Additionally, detention

volume will be required to offset redevelopment of existing impervious ~~areassurfaces~~.

Total Detention Volume required is calculated as follows:

$$V_T = [43,560 \times (0.20 \times A_{II})] + (1815 \times A_{EI})$$

V_T = Total Detention Volume for the proposed project (Cubic Feet)

A_{II} = Area of ~~increased~~ impervious surface ~~cover~~ (including all disturbed area resulting in impervious surface) (Acres)

~~A_{EI} = Area of existing Impervious Surface (Acres)~~

Subdividing of larger tracts (greater than 1 acre) into smaller tracts of 1.0 acre or less to reduce stormwater detention requirements will not be permitted.

- d. Areas equal or greater than 1 acre and less than or equal to 40-50 acres: Detention volume will be required at 0.50 acre-feet per acre of ~~increased-disturbed area that results in~~ impervious surface ~~(including all disturbed area)~~. ~~Additionally, detention volume will be required to offset redevelopment of existing impervious areas.~~

Total Detention Volume required is calculated as follows:

$$V_T = [43,560 \times (0.50 \times A_{II})] + (1815 \times A_{EI})$$

V_T = Total Detention Volume for the proposed project (Cubic Feet)

A_{II} = ~~Area of increased~~ Disturbed area that results in Impervious-impervious Cover surface (including all disturbed area) (Acres)

~~A_{EI} = Area of existing Impervious Surface (Acres) for which detention is not currently provided.~~

- ~~c. Areas between 10 acres and 50 acres: Detention volume will be required at 0.50-acre-feet per acre of increased impervious surface. Additionally, detention volume will be required to offset redevelopment of existing impervious areas.~~

~~Total Detention Volume required is calculated as follows:~~

~~If the area of existing impervious surface is less than or equal to 10 acres:~~

$$~~V_T = [43,560 \times (0.50 \times A_{II})] + (1815 \times A_{EI})~~$$

~~If the area of existing impervious surface is greater than 10 acres:~~

$$~~V_T = [43,560 \times (0.50 \times A_{II})] + [(3630 \times A_{EI}) - 18,150]~~$$

~~V_T = Total Detention Volume for the proposed project (Cubic Feet) A_{II} = Area of~~

~~increased Impervious Surface (Acres)~~

~~A_{EI} = Area of existing Impervious Surface (Acres) for which detention is not currently provided.~~

- f. Areas greater than 50 acres: Detention calculation will be per the most current version of the HCFCD PCPM. Refer to http://www.hcfcd.org/downloads/manuals/HCFCD_PCPM_Dec2010.pdf.
- g. Private parking areas, private streets, and private storm sewers may be used for detention provided the maximum depth of ponding does not exceed 9 inches directly over the inlet, and paved parking areas are provided with signage stating that the area is subject to flooding during rainfall events.
- h. Private transport truck only parking may be used for detention provided the maximum depth of flooding does not exceed 15 inches directly above the inlet and signage is provided stating that the area is subject to flooding during rainfall events.
- i. All mitigation facilities shall be located within or adjacent to the project area except for roadway projects or projects where impacts are mitigated in a regional stormwater detention facility. Engineer shall provide calculations indicating receiving Stormwater system was designed to have conveyance capacity to non-adjacent detention facilities.
- j. Low Impact Development (LID) techniques that are considered acceptable for achieving detention are Bioretention, Infiltration Trenches, Porous Pavement, and Vegetative Swales. See IDM Ch 13 for LID design guidelines.

Review and approval of engineering calculations demonstrating the volume of detention achieved for each LID feature will be required.

If LID techniques are considered for achieving detention, review and approval of a maintenance and Life Cycle plan are required. This plan shall be signed and sealed by a professional registered engineer and included as part of the review and approval process.

- k. For any new development or any part of an existing development that is still undeveloped, the most recent detention requirements would apply.

4. Calculation of Outlet Size.

- a. Detention pond discharge pipe into an existing storm sewer line or existing City of Houston ditch:
 - (1) If the maximum pool elevation is at or below the design hydraulic grade at the drainage system outfall, the discharge line shall be sized for the Design Rainfall with the discharge pipe flowing full. The

- pond will float on the drainage system to provide maximum benefit.
- (2) If the maximum pool elevation is at or above the hydraulic grade at the drainage system outfall, provide a reducer or restrictor pipe to be constructed inside the discharge line. The discharge line shall be sized for the Design Rainfall with the discharge pipe flowing full.

b. Reducer or Restrictor Pipes shall be sized as follows:

- (1) Allowable Discharge Rate – Use the lowest of the discharge rates described below:
- (a) Restrictor pipes will provide a combination of low level and high level controlled release from the detention basin. The low level restrictor pipe (primary orifice) shall be sized to provide a release rate of 0.5 CFS/acre when the detention basin water depth is 25% of capacity. The low level restrictor pipe (primary orifice) shall be located at the bottom of the basin to provide complete drainage of the pond. The high level restrictor pipe (secondary orifice) shall be sized to provide a combined release rate (from the primary orifice and secondary orifice) of 2.0 CFS/acre at full basin depth. The high level restrictor (secondary orifice) shall begin releasing flow when detention basin water depth reaches 75% of capacity. The combined rate of 2.0 CFS/acre is the approximate discharge from an undeveloped tract for the 100-year storm. The basin is considered 100% full when it reaches its maximum volume during the 100-year storm.
- (b) Flow discharged to the storm drain shall not exceed the proportional amount of pipe capacity allocated to the Development. The proportional amount of pipe capacity allocated to the Development shall be determined by the ratio of the area (acres) of the Development (in storm drain watershed) divided by the total drainage area (acres) of the storm drain multiplied by the capacity of the storm drain.

- (2) Use the following equations to calculate the required outflow orifice:

$$Q = CA \sqrt{2g} \sqrt{h}$$

$$D = Q^{1/2} / (2.25h^{1/4})$$

Where:

Q	=	outflow discharge (cfs)
C	=	coefficient of discharge
	=	0.8 for short segment of pipe
	=	0.6 for opening in plates, standpipes, or concrete walls
A	=	orifice area (square feet)
g	=	gravitational factor (32.2)

h = head, water surface differential (feet)

D = orifice diameter (feet)

- (3) Restrictor shall be either of the required diameter or of the equivalent cross-sectional area. The orifice diameter D shall be a minimum of 0.5 feet.
 - c. In addition to a pipe outlet, the detention basin shall be provided with a gravity spillway that will protect structures from flooding should the detention basin be overtopped.
5. Ownership and Easements.
 - a. Private Facilities:
 - (1) Pump discharges into a roadside ditch requires the submittal of pump specifications on the design drawings.
 - (2) The City reserves the right to prohibit the use of pump discharges where their use may aggravate flooding in the public R.O.W.
 - (3) Responsibility for maintenance of the detention facility must be confirmed by letter submitted to the City as part of the design review.
 - (4) All private properties being served have drainage access to the pond. Dedicated easements may be required.
 - (5) No public properties may drain into the detention area.
 - (6) A private maintenance agreement must be provided when multiple tracts are being served.
 - b. Public Facilities:
 - (1) Facilities will only be accepted for maintenance by the City within the City limits in cases if public drainage is being provided. (2) The City requires a maintenance work area of 20-foot width surrounding the extent of the detention area. Public R.O.W. or permanent access easements may be included as a portion of this 20-foot width. See table 9.34 below from the HCFCDCPCPM for minimum berm widths around a detention basin.

Table 9.34: Minimum Berm Width around a Detention Basin

Detention Basins That Are	The Minimum Berm Width Is
Grass-lined with a depth > 7 feet	30 feet
Grass-lined with a depth ≤ 7 feet	20 feet ¹
Grass-lined where side slopes are 8(horizontal):1(vertical) or flatter	10 feet ²
Grass-lined with the 20-foot maintenance access on a bench	10 feet
Lined with riprap or articulated concrete blocks or partially concrete-lined	Same as grass-lined channel
Fully concrete-lined	20 feet ¹

¹ Backslope swale system not needed.² Maintenance access is on the side slope

- (3) A dedication of easement shall be provided by plat or by separate instrument.
- (4) Proper dedication of public access to the detention pond must be shown on the plat or by separate instrument. This includes permanent access easements with overlapping public utility easements.
- (5) Backslope drainage systems are required where the natural ground slopes towards the drainage basin. A basin that is within 30 feet of a parking lot or roadway with berms that drain away from the basin does not require a backslope swale. Comply with criteria provided in HCFCF Criteria Manual.

9.06 EASEMENT AND RIGHTS-OF-WAY

- A. Storm sewer easement and R.O.W. requirements are described in Chapter 5 Easement Requirements.

9.07 SUBMITTALS

- A. Preliminary Submittals - Submittal, for review and comment, of one-line drawings is recommended and may be required as part of the platting process. One-line drawings should include:
 1. Approximate definition of lots and street patterns.
 2. The approximate drainage areas for each system.
 3. A definition of the proposed drainage system by single line.

4. The proposed pipe diameters.
 5. Any proposed drainage easements.
 6. Floodplain information, including floodplain boundary, if any; FEMA map number, effective map date and zone.
- B. Final Design - Submit the following for approval:
1. Copies of any documents which show approval of exceptions to the City design criteria.
 2. Design calculations for time of concentration, storm line sizes and grades, and for detention facilities, if any.
 3. Design calculations for the Hydraulic Grade Line of each line or ditch, and for detention facilities, if any.
 4. Drainage Area Map with the following information:
 - a. Existing contour map.
 - b. Drainage area and sub-drainage area boundaries.
 - c. Drainage area (acres) and flow quantity (cfs) draining to each inlet and each pipe segment from manhole to manhole.
 - d. Extreme event (100-year) Sheet Flow direction.
 - e. Existing condition and developed condition Sheet Flow direction for the surrounding properties.
 5. Plan and profile sheets showing Stormwater design (public facilities only).
 6. Projects located within a floodplain boundary or within a floodplain management area shall:
 - a. Show the floodplain boundary or floodplain area, as appropriate, on the one-line drawing or Drainage Area Map.
 - b. Comply with all applicable submittal requirements of Chapter 19, Code of Ordinances.
 7. Profile drawing of roadway (or overland flow path) with exaggerated vertical scale from the upper reach of drainage area to the primary drainage outlet. Show roadway profile at gutter, ground profile at the public R.O.W., and hydraulic gradient for the 100-year extreme event; or an alternative equivalent drawing accepted by the City.

8. Calculation for proportional amount of pipe capacity allocated to the Development along with the drainage area map used for these calculations.

C. Signature Stage - Submit the following for approval:

1. Review prints
2. Original drawings
3. Stormwater detention maintenance agreement letters.
4. Drainage Area Map with the following information:
 - a. Existing contour map.
 - b. Drainage area and sub-drainage area boundaries.
 - c. ~~Drainage~~Drainage area (acres) and flow quantity (cfs) drainage to each inlet and each pipe segment from manhole to manhole.
 - d. Extreme event (100-year) Sheet Flow direction.
 - e. Existing condition and developed condition Sheet Flow direction for the surrounding properties.
5. Profile drawing as specified in Paragraph 9.07.B.7.
6. Projects located within a floodplain boundary or within a floodplain management area shall:
 - a. Show the floodplain boundary, or floodplain area, as appropriate on the one-line drawing or Drainage Area Map.
 - b. Comply with all applicable submittal requirements of Chapter 19, Code of Ordinances.

9.08 QUALITY ASSURANCE

- A. Prepare calculations and design drawings under the supervision of a Professional Engineer trained and licensed under the disciplines required by the project scope. The final design drawings and all design calculations must be sealed, signed, and dated by the Professional Engineer responsible for the development of the drawings.

9.09 SURVEY

- A. Projects shall be tied to National Geodetic Survey (NGS) datum adjustment which matches the Federal Emergency Management Agency (FEMA) rate maps or the most current NGS datum which matches the FEMA rate maps. In the event GPS surveying is used to establish

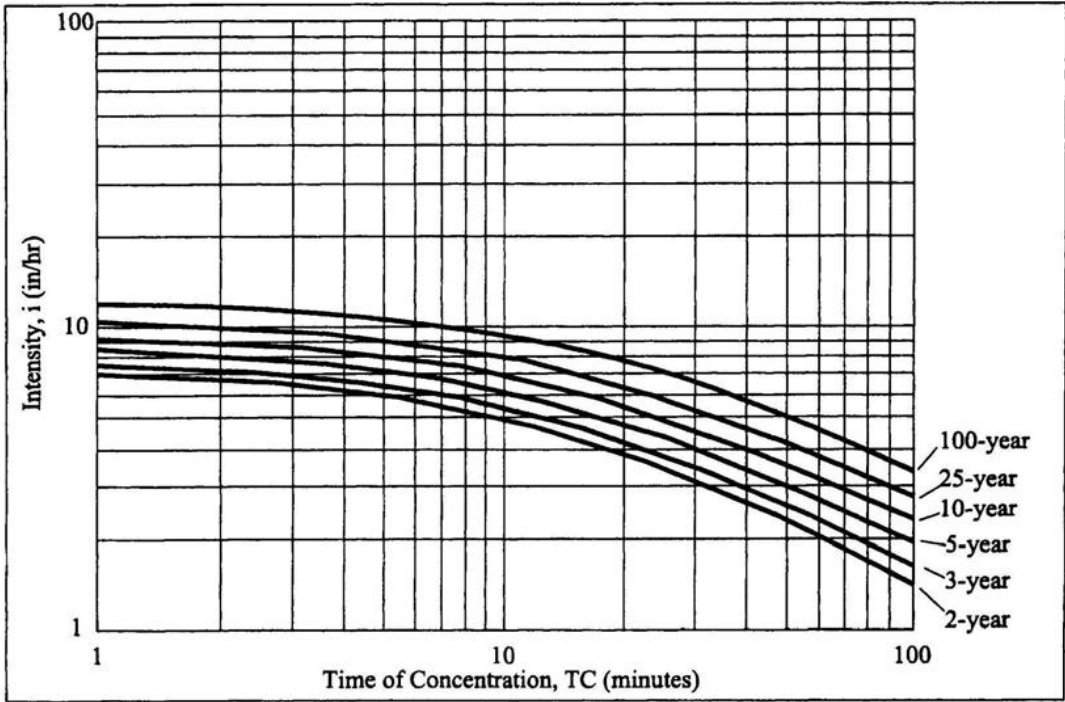
bench marks, at least two references to bench marks relating to the rate maps shall be identified. Equations may be used to translate other datum adjustments to the required adjustment.

9.10 LOW IMPACT DEVELOPMENT

- A. Design requirements for Low Impact Development techniques are included in Chapter 13. Only three techniques may be considered to have impact on ~~detention rates~~ impervious surface: Hard Roof, Green Roof, and Porous Pavement.

END OF CHAPTER

FIGURE 9.1
City of Houston IDF Curves
Intensity vs. Time of Concentration vs Rainfall Frequency
Source: Hydro 35/TP-40



$$i = \frac{b}{(d+TC)^e}$$
$$TC = 10A^{0.1761} + 15$$

$A = \text{area in acres}$

Rainfall Frequency	b	d	e
2-year	75.01	16.2	0.8315
3-year	77.27	17.1	0.8075
5-year	84.14	17.8	0.7881
10-year	93.53	18.9	0.7742
25-year	115.9	21.2	0.7808
100-year	125.4	21.8	0.7500

Figure 9.2

Project:

Job No:

System:

By:

Checked by:

HGL starting elevation=

Design storm=

b=

d=

e=

Date:

Date:

MH From	MH To	Area (Acres)	Runoff Coefficient(C)	Sum of C*A	Intensity I(In/hr)	Sum of Flows(cfs)	Time of Conc (Min)	Reach Length(ft)	Reach Length(ft)	Diam or Rise(in)	Span(ft)	Slope(%)	Manning's "n"	Design Capacity(cfs)	Design Velocity(ftps)	Fall(ft)	Manhole Drop (feet)	Flowline Elevation Upstream(ft)	Flowline Elevation Downstream(ft)	Actual Velocity (fps)	Hydraulic Grad(%)	Change in Head(ft)	Elevation of Hyd. Grad. Upstream(ft)	Elevation of Hyd. Grad. Downstream(ft)	Natural Ground Upstream(ft)	Natural Ground Downstream(ft)

Figure 9.3

Project: _____
 Job No: _____
 System: _____
 By: _____
 Checked by: _____

[illegible]

City of Houston

Design Manual

Chapter 13

STORMWATER QUALITY DESIGN REQUIREMENTS

Chapter 13

STORMWATER QUALITY DESIGN REQUIREMENTS

13.01 CHAPTER INCLUDES

- A. Criteria for the design of Stormwater pollution prevention procedures and controls for construction activities.
- B. Criteria for the design of permanent Stormwater pollution prevention facilities and controls to minimize impacts for new development and decrease impacts for redevelopment on tracts of land of 5 acres or more.

13.02 REFERENCES

- A. Stormwater Management Handbook for Construction Activities, City of Houston, Harris County, Harris County Flood Control District, 2006 or Current Edition.
- B. Stormwater Quality Management Guidance Manual, City of Houston, Harris County, Harris County Flood Control District, 2001 or current edition.
- C. Minimum Design Criteria (MDC) for Implementation of Certain Best Management Practices for Stormwater Runoff Treatment Options, 2001 edition, City of Houston.
- D. Article XII of Chapter 47 of the City of Houston Code of Ordinances.
- E. National Pollutant Discharge Elimination System Permit Number TXS001201.
- F. Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004685000 (known as the Municipal Separate Storm Sewer System - MS4 permit)
- G. Texas Pollutant Discharge Elimination System (TPDES) General Permit No. TXR150000 (known as the Construction Stormwater General Permit)
- H. Texas Pollutant Discharge Elimination System (TPDES) General Permit No. TXR050000 (known as the Industrial Stormwater Multi-Sector General Permit)
- I. Texas Pollutant Discharge Elimination System Permit Number WQ000468500
- J. International Stormwater Best Management Practices (BMP) Database,
www.bmpdatabase.org

13.03 DEFINITIONS

- A. Applicant - The owner of the land on which the new development or significant redevelopment will occur, or authorized agent.
- B. Best Management Practice (BMP) - Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. Stormwater management BMP to control or abate the discharge of pollutants when authorized under section 402(p) of the Clear Water Act (CWA) for the control of Stormwater discharges.
- C. Best Management Practices (BMP) - A number of Stormwater structural and non-structural control strategies that have become the national focus for the mitigation of Stormwater pollution. BMP types include ponds, bio retention facilities, infiltration trenches, grass swales, and filter strips (Ref EPA.gov- TMDL 2007).
- D. Detention - A feature meant to collect a site's stormwater and slowly release it at a control rate to not significantly impact downstream areas.
- E. Development - (i) Any activity that requires a subdivision plat or development plat pursuant to Chapter 42 of this Code; (ii) the further subdivision of any reserve tract that is part of a subdivision plat approved by the city planning commission or pursuant to article II of Chapter 42 of this Code; or (iii) any activity that requires a construction permit.
- F. Dwelling Unit - A structure, or a portion of a structure, that has independent living including provisions for non-transient sleeping, cooking and sanitation.
- G. Engineered Soil - Cement-Based Engineered Soil technology used to stabilize the soil on a work site where it is not solid enough to safely support a building or roadway. Portland cement is blended with soil (sometimes including aggregate) and water and then compacted. The resulting mix, known as soil cement provides a secure and stable base for construction. It is also used for flood control structures.
- H. Impervious Surface - Any area that does not readily absorb water, including, but not limited to, building roofs, parking and driveway areas, sidewalks, compacted or rolled areas, and paved recreation areas.
- I. Low Impact Development (LID) - A land planning and engineering design approach to managing Stormwater runoff. LID emphasizes conservation and use of on-site natural features to protect water quality. This approach implements engineered small-scale hydrologic controls to replicate the pre-development hydrologic regime of watersheds through infiltrating, filtering, storing, evaporating, and detaining runoff close to its source. LID based practices are used to reduce Stormwater runoff volume and pollutant loading from developed sites.

- J. Notice of Intent (NOI) - A written submission to the executive director from an applicant requesting coverage under general permit, reference definition G.
- K. NPDES - National Pollutant Discharge Elimination System
- L. Regulated Construction Activity - Construction activities, including clearing, grading, and excavation that disturb either ~~five~~ one acres or more, or less than ~~five~~ one acres if the activities are part of a larger plan of development or sale.
- M. Residence Time - The length of time that runoff remains in a pond, which is known as the pond's Hydraulic Residence Time (HRT). Removal efficiency is primarily dependent on the HRT.
- N. Significant New Development - Development on a currently undeveloped parcel of land ~~five~~ one acres or larger without regard to the amount of land that will actually be disturbed, except for development on an existing undeveloped and undivided parcel of one ~~five~~ acres or more of one single-family dwelling unit and/or the types of non-commercial building(s) typically associated with a single-family dwelling unit, including, but not limited to, a garage, carport or barn. If the occupancy for any structure excluded under the foregoing exception at any time changes to a commercial use, the owner of the property will at that time have to comply with all requirements of this program. The term also does not include a Stormwater detention basin that includes a water quality feature. The required Stormwater quality permit must include Detention.
- O. Significant Redevelopment - Increase of 0.2 acre or more to the impervious surface on one acre or larger developed parcel, but does not include a Stormwater detention basin that includes a water quality feature. ~~Changes of one acre or more to the impervious surface on a five-acre or larger developed parcel, but does not include a Stormwater detention basin that includes a water quality feature.~~ The required Stormwater quality permit must include Detention.
- P. SWQMP - Stormwater Quality Management Plan.
- Q. Stormwater Pollution Prevention Plan (SWPPP) - A site-specific, written document that: Identifies potential sources of Stormwater pollution at the construction site; describes practices to reduce pollutants in Stormwater discharges from the construction site. Reduction of pollutants is often achieved by controlling the volume of Stormwater runoff (e.g., taking steps to allow Stormwater to infiltrate into the soil). Identifies procedures the operator will implement to comply with the terms and conditions of a construction general permit.
- ~~Q-R.~~ Stormwater Quality permit or SWQ permit - shall mean a current, valid permit issued pursuant to Article XII, Chapter 47, Division 2 of the City Code of Ordinances. A SWQ permit shall be obtained for all new development and significant redevelopment sites that will construct or modify their detention features. This requirement applies only to the detention feature if the facility has or will have permit coverage for stormwater discharges from industrial activity issued by the state.

~~R.S.~~ TPDES – Texas Pollutant Discharge Elimination System

~~S.T.~~ Undeveloped Parcel - A parcel on which there are no structures at the time that a construction permit, subdivision plat or other city approval is applied for or required

13.04 DESIGN REQUIREMENTS

- A. Obtain approval from the Office of the City Engineer (OCE) for exceptions or deviations from these requirements. Exceptions or deviations may be granted on a project-by-project basis.
- B. Construction Activity:
 - 1. SWPPPs and BMPs will be developed in accordance with the Stormwater Management Handbook for Construction Activities. (Reference A)
 - 2. Construction plans will include a note requiring contractor to comply with the Construction Stormwater General Permit including preparation of a SWPPP and to provide a copy of the Site Notice, NOI, and maintenance checklist to City Engineer or Building Official five (5) work days prior to commencement of any construction activity.
- C. New Development and Significant Redevelopment:
 - 1. All design must be consistent with the Stormwater Quality Guidance Manual (SWQGM) and the Minimum Design Criteria for Certain Stormwater Runoff Treatment Options (MDC), 2001 edition.
 - 2. ~~A letter of availability must be included with the Stormwater Quality Management Plan~~
 - 3. ~~2.~~ Pollutants expected from the site must be identified in the SWQMP. BMPs must be designed and selected to remove the pollutants identified.
 - 4. ~~3.~~ At a minimum, the system must be designed to treat the first 1/2 inch of runoff, except as noted in the SWQGM or the MDC.
 - 5. BMPs listed in the SWQGM but not in the MDC may be acceptable for implementation pending review of design calculations and site applicability. BMPs not listed in the SWQGM may be considered on a case by case basis. Acceptance of these BMPs will require not only review of design calculations and site applicability, but also review of case studies or other data provided by an uninterested third party indicating the effectiveness of the BMP. All calculations and literature must be provided as part of the plan submittal.
 - 6. In addition to meeting the Stormwater quality requirements of this Chapter the Stormwater system must also meet the requirements of Chapter 9 of this Manual.

13.05 DESIGN STANDARDS

- A. When design approaches included in this section are incorporated in designs requiring City Engineer approval, the standards of this section will apply.

- B. Low Impact Development (LID):

1. Bioretention

a. Overview

Bioretention is a terrestrial-based (up-land as opposed to wetland), water quality and water quantity control practice using the chemical, biological and physical properties of plants, microbes and soils for removal of pollutants from Stormwater runoff. Some of the processes that may take place in a bioretention facility include: sedimentation, adsorption, filtration, volatilization, ion exchange, decomposition, phytoremediation, bioremediation, and storage capacity. Bioretention may also be designed to mimic predevelopment hydrology.

b. Design Criteria

- (1) Determine volume of bioretention area below maximum design water surface. Depth of ponding limited to a maximum of 6 inches.
- (2) Demonstrate that sufficient area contributes stormwater runoff to the bioretention area to fill the area to its maximum design water surface for the design storm under consideration.
- (3) Using in-situ or new soils, design the bioretention area to empty within 48 hours. This may be accomplished through infiltration, evapotranspiration, and/or the design of a subsurface drainage system.
- (4) Mitigating detention volume requirements can be reduced by the volume in the bioretention area below its maximum design water surface.
- (5) Runoff from commercial areas and parking lots require pretreatment; grass buffer strip or vegetated swales, prior to draining into bioretention area.
- (6) Infiltration rates less than 0.5 inches per hour will require a subsurface drainage system.
- (7) Geotechnical testing is required to confirm infiltration rates.
- (8) The cross section for typical Porous Bioretention Basin is shown on Figure 1.

c. Inspection and Maintenance Requirements

- (1) Verify presence of vegetation considered in design computations (if any) quarterly.
- (2) Verify the bioretention area has adequate volume quarterly by checking whether sedimentation has encroached on design volume. This can be done by comparing actual maximum depth against design maximum depth.
- (3) Verify ability of bioretention area to drain within 48 hours twice yearly after rainfall event.
- (4) Correct deficiencies related to items 1-3 above as needed.

2. Infiltration Trenches

a. Overview

Trenches or basins that temporarily detain a design water quality volume while allowing infiltration to occur over a prescribed period of time. Trenches are applicable for both water quality and water quantity control practices.

b. Design Criteria

- (1) In-situ subsoil shall have a minimum infiltration rate of 0.5 inches per hour. Geotechnical testing including one boring per 5000 square feet or two per project is required to confirm infiltration rate.
- (2) Subsurface drainage systems are required where the in-situ subsoil rate is less than 0.5 inches per hour or where the project is constructed on fill soils.
- (3) Avoid placement on slopes greater than 15% in fill areas.
- (4) Design of the trench area to empty with 48 hours.
- (5) Backfill using clean aggregate larger than 1.5" and smaller than 3" surrounded by engineered filter fabric.
- (6) Provide overflow structure or channel to accommodate larger runoff events.
- (7) Provide 4" PVC observation well into subgrade.
- (8) Runoff from commercial areas and parking lots require pretreatment; grass buffer strip or vegetated swales, prior to draining into infiltration trench.
- (9) Locate bottom of facility at least 4 ft. above seasonal high water table elevation.
- (10) Locate at least 100 ft. from any water supply well.
- (11) Maximum contributing drainage area is 5 acres.
- (12) Mitigating detention volume can be reduced by the amount of infiltration into the subsoil and the volume of voids within the trench area.

c. Inspection and Maintenance Requirements

- (1) Inspect observation well for water level and drainage times.
- (2) Conduct landscaping, mowing, and desilting of facility.

3. Porous Paver Systems and Porous Pavement

a. Overview

Porous Pavement consists of a permeable surface course (typically, but not limited to, asphalt or concrete) that allows infiltration of stormwater runoff into a permeable layer of uniformly graded stone bed. The underlying permeable layer serves as a storage reservoir for runoff and/or infiltration. Porous Pavement is applicable for both water quality and water quantity control practices.

b. Design Criteria: Porous Paver Systems

Minimum requirements for porous paver system

- (1) Design details are shown in Figure 2a.
- (2) Restricted to Single Family Residential Driveway Construction.

c. Design Criteria: Porous Pavement

Minimum requirements for porous pavement

- (1) Porous Pavement shall be limited to lightly traveled surfaces such as parking pads in parking lots, residential driveways, trails and sidewalks.
 - a. Porous Pavement for residential driveways may be determined as pervious for up to 10% of the lot area for a Single Family Residential (SFR) lot: (1) qualifying for exemption from detention under 9.05.H.3 and (2) for basis of City Drainage Utility charges.
 - b. Porous Pavement will not be determined as pervious for commercial areas designed for heavy traffic volume and/or vehicles, and areas of pavement likely to be coated or paved over because of lack of awareness.
- (2) In-situ subsoil shall have a minimum infiltration rate of 0.5 inches per hour. Geotechnical testing including one boring per 5000 square feet or two per project is required to confirm infiltration rate.
- (3) Subsurface drainage systems are required for stormwater detention where the in-situ subsoil rate is less than 0.5 inches per hour or where the project is constructed on fill soils.
- (4) Typical section of porous pavement and underlying permeable stone bed is shown on Figure 2b with a description of each layer of material.

- (5) Subsurface drainage systems are required to be drained in 48 hours.
- (6) If the volume of storage within the voids of the subsurface drainage system's stone bed meets the detention volume rate of 0.5 acre-feet per acre of development or 0.2 acre-feet per acre for tracts less than one acre, the area of the porous pavement is considered undeveloped. Otherwise, the total voids storage volume will be credited toward the required detention volume.
- (7) If the time of concentration (T_c) from a project site that includes porous pavement and subsurface drainage system, is equal to the undeveloped time of concentration, the development of the project site is considered undeveloped.
- (8) Soft porous pavement area shall be considered undeveloped.
- (9) The cross-section typically consists of four layers, as shown in Figure 2b. The aggregate reservoir can sometimes be avoided or minimized if the sub-grade is sandy and there is adequate time to infiltrate the necessary runoff volume into the sandy soil without by-passing the water quality volume. Descriptions of each of the layers are presented below:

Porous Concrete Layer – The porous concrete layer consists of an open-graded concrete mixture usually ranging from depths of 2 to 4 inches depending on required bearing strength and pavement design requirements. Porous concrete can be assumed to contain 18 percent voids (porosity = 0.18) for design purposes. Thus, for example, a 4 inch thick porous concrete layer would hold 0.72 inches of rainfall. The omission of the fine aggregate provides the porosity of the porous pavement. To provide a smooth riding surface and to enhance handling and placement a coarse aggregate of 3/8 inch maximum size is normally used.

Top Filter Layer – Consists of a 0.5 inch diameter crushed stone to a depth of 1 to 2 inches. This layer serves to stabilize the porous concrete layer. Can be combined with reservoir layer using suitable stone.

Reservoir Layer – The reservoir gravel base course consists of washed, bank-run gravel, 1.5 to 2.5 inches in diameter with a void space of about 40 %. The depth of this layer depends on the desired storage volume, which is a function of the soil infiltration rate and void spaces, but typically ranges from two to four feet. The layer must have a minimum depth of nine inches. The layer shall be designed to drain completely in 48 hours. The layer shall be designed to store at a minimum the water quality volume (WQv). Aggregate contaminated with soil shall not be used. A porosity value (void space/total volume) of 0.32 shall be used in calculations unless aggregate specific data exist.

Bottom Filter Layer – The surface of the subgrade shall be a 6 inch layer of sand (ASTM C-33 concrete sand) or a 2 inch thick layer of 0.5 inch crushed stone, and be completely flat to promote infiltration across the entire surface. This layer serves to stabilize the reservoir layer, to protect the underlying soil from compaction, and act as the interface between the reservoir layer and the filter fabric covering the underlying soil.

Filter Fabric – It is very important to line the entire trench area, including the sides, with filter fabric prior to placement of the aggregate. The filter fabric serves a very important function by inhibiting soil from migrating into the reservoir layer and reducing storage capacity. Fabric shall be MIRFI # 14 N or equivalent.

Underlying Soil – The underlying soil shall have an infiltration capacity of at least 0.5 in/hr, but preferably greater than 0.50 in/hr. as initially determined from NRCS soil textural classification, and subsequently confirmed by field geotechnical tests. The minimum geotechnical testing is one test hole per 5000 square feet, with a minimum of two borings per facility (taken within the proposed limits of the facility). Infiltration trenches cannot be used in fill soils. Soils at the lower end of this range may not be suited for a full infiltration system. Test borings are recommended to determine the soil classification, seasonal high ground water table elevation, and impervious substrata, and an initial estimate of permeability. Often a double-ring infiltrometer test is done at subgrade elevation to determine the impermeable layer, and for safety, one-half the measured value is allowed for infiltration calculations.

d. Inspection and Maintenance Requirements

- (1) Initial inspection of porous pavement shall be monthly for the first three months post construction.
- (2) Semi-annual inspection to ensure pavement surface is free of sediment.
- (3) Vacuum sweep hard porous pavement followed by high pressure hosing to keep voids free of sediment quarterly.
- (4) Annually inspect pavement surface and subsurface drainage system (if any) for deterioration, spalling or malfunctioning.

e. Additional provisions regarding use as a pervious cover. Approval of plans considering the SFR exemption in cases including porous pavement will include the following condition:

Approval of the proposed development is based in-part on capacity for proposed porous pavement to mitigate increased stormwater runoff.

As condition of approval, applicant is required to provide notice to the owner/buyer of the property that maintenance of porous pavement is necessary for continued functionality, that requirements for routine maintenance have been published by the Department of Public Works & Engineering and may be revised in the future, and that failure to fulfill maintenance actions and reporting may result in an increase of drainage utility charges for the property pursuant to City of Houston Ordinance 11-0254 and cited implementing guidelines, available on the **ReBuild Houston** webpage.

4. Vegetated Swales

a. Overview

Vegetated Swales (dry or wet) are earthen, planted stormwater conveyances designed to filter a shallow depth of runoff (<4") for water quality improvement and to infiltrate stormwater. There are two types, dry or wet. Dry swales include an underdrain system. Wet swales do not. Swales are typically designed to convey runoff from larger storm events, however, treatment and infiltration is reduced during high flows. Infiltrative soils or an engineered porous subgrade is required for infiltration use. Vegetated Swales are applicable for both water quality and water quantity control practices.

b. Design Criteria for Dry Swale

- (1) Soil infiltration rate of 0.27 to 0.50 inches/hour.
- (2) Trapezoidal or parabolic cross section.
- (3) Bottom width shall be 2 ft. wide minimum or 6 ft. wide max.
- (4) Longitudinal slope shall range from 1% to 6%.
- (5) Flow depth shall be less than 4 inches for water quality treatment.
- (6) Flow velocity shall be less than 1 fps for water quality, less than 5 fps for 2-yr storm (non-erosive velocities for grass and soils).
- (7) Length shall yield a 10 minute residence time.
- (8) Side slopes shall be flatter than 3:1.
- (9) Maximum ponding timeshall be 48 hours.
- (10) Use proper vegetation (grass or wetland plants) consistent with climate, ecoregion, soils, and hydric conditions.
- (11) Provide at least 3" of free-board during design storm.
- (12) Provide pretreatment of runoff into the swale.
- (13) Design details are shown in Figure 3.

c. Design Criteria for Wet Swale

- (1) Soil infiltration rate of 0.27 to 0.50 inches/hour.
- (2) Trapezoidal or parabolic cross section.

- (3) Bottom width shall be 2 ft. wide minimum or 8 ft. wide max. to avoid gullyng or channel braiding.
- (4) Longitudinal slope shall range from 1% to 6%.
- (5) Flow depth shall be less than 4 inches for water quality treatment.
- (6) Flow velocity shall be less than 1 fps for water quality, less than 5 fps for 2-yr storm (non-erosive velocities for grass and soils).
- (7) Length shall yield a 10 minute residence time.
- (8) Slide slopes shall be flatter than 3:1.
- (9) Maximum ponding time shall be < 48 hours.
- (10) Use proper vegetation (grass or wetland plants) consistent with climate, ecoregion, soils, and hydric conditions.
- (11) Provide at least 3" of free-board during design storm.
- (12) Provide pretreatment of runoff into the swale.
- (13) Design details are shown in Figure 4.

d. Inspection and Maintenance Requirements

- (1) Mow dry swales as required during growing season to maintain grass heights in the 4 to 6 inch range. Wet swales, employing wetland vegetation or other low maintenance ground cover do not require frequent mowing. Remove sediment when 25% of the original water quality volume has been exceeded.

5. Green Roof

a. Overview

A green roof, in the simplest terms, is a vegetated roof. The vegetation varies, but must be suitable to the local climate and be drought tolerant unless a method of irrigation is also installed. Installation generally consists of a waterproof membrane installed over a suitably constructed roof deck. For in-situ installations, an under-drain drainage system is installed over the membrane. A lightweight engineered soil is installed on top of the under-drain, as fill dirt or topsoil is typically too heavy to use in rooftop applications. The engineered soil is then planted with select vegetation. If a modular system is selected, the drainage system may already be incorporated into the design, along with the soil and vegetation, depending on the manufacturer. The substrate material and depth are also factors that influence the efficiency of the green roof to store and/or treat stormwater. Roofs consisting of relatively thin soil layers, called extensive roofs, are not as heavy as the intensive roofs, which are covered with thicker soil layers.

b. Design Criteria

- (1) Vegetation suitable to the climate and preferably a species that is

drought tolerant, unless a method of irrigation is provided, shall be installed. The effect of wind on the vegetation shall also be considered when selecting the roof foliage, as wind velocities are typically higher at rooftop elevations.

- (2) The amount of credit given for the rainfall amount stored shall be as prescribed by the manufacturer for a modular system.
- (3) The amount of credit given for the rainfall amount stored for non-modular systems shall be calculated for the engineered soil. The rate shall be derived by in-situ porosity testing. The porosity test shall be performed four times with the first time results being discarded and the three remaining results averaged. The test shall require the first sample remain wet a minimum of 1 hour. The subsequent porosity tests shall be performed the same day. In no case shall the storage volume be credited more than 33% of total volume, as that is the assumed volume of clean graded washed gravel.
- (4) The roof membrane must be sufficiently designed and installed to pond a minimum of 1-inch of water at the most shallow point on the roof for 24 hours without leaks. This shall be tested in the same manner as shower pans are tested under the building code. Additionally, special consideration shall be given for the plant root structure and prevention of soil migration during membrane selection. A root barrier may also be required to protect the waterproof membrane integrity.
- (5) The under-drain drainage system shall be designed for the selected plant's tolerance for drought and varying soil moisture contents by maintaining the proper balance of moisture and aerobic conditions within the soil media for optimum vegetation sustainability. Design provisions shall address higher volume rainfall events to keep excessive amounts of water from ponding on top of the soil, to prevent erosion, and to prevent soil media saturation for extended periods. Structural calculations shall be submitted that demonstrate the structure's ability to sustain the additional loading of the green roof appurtenances plus the maximum water weight that could be stored.

c. Inspection and Maintenance Requirements

- (1) A maintenance plan for the green roof system shall be developed in accordance with the membrane manufacturer's instructions and plant species selected. At a minimum, maintenance inspections shall be performed at least four times per year. The maintenance plan shall include provisions for vegetation maintenance and replacement as needed to maintain a minimum 80% coverage/survival rate in order to sustain Stormwater quality and/or detention credits. Irrigation may be required initially in order to establish the roof vegetation and to supply water under severe drought conditions. Any requirements for initial or intermittent use of fertilizer and pesticides for disease or insect control

shall be identified in the plan. Plant species shall be carefully selected to minimize intermittent fertilizer and pesticide applications.

- (2) Each green roof installation shall be inspected by the agency responsible for issuing the Stormwater quality or detention credits to check compliance with the approved drawings before final acceptance is issued and the proper credits are approved. At a minimum, the following items shall be checked during the inspection:
 - (a) Results from porosity testing (for non-modular installations).
 - (b) Certification from a registered Professional Engineer or registered Architect that the green roof, including membrane, drain system and engineered soil system, was installed per the approved (permitted) drawings and operates as designed.
 - (c) Drawings of the green roof installation.
- (3) Once the green roof is installed and established, additional inspections will be required in order to properly maintain the vegetation, drainage system and roof membrane. Routine inspections shall be conducted and associated maintenance activities performed on the following:
 - (a) Joints at adjoining walls, roof penetrations for vents, electrical and air conditioning conduits shall be inspected regularly for leaks. The ceilings located directly below the green roof installation shall also be visually inspected for signs of water staining or leaking.
 - (b) Designated drainage paths and drainage system components shall be inspected to ensure proper surface drainage is maintained and that the soil layer is drained to prevent excessively saturated soils. Vegetation selected to tolerate drought conditions may rot or die if the soil is allowed to become saturated for extended periods.
 - (c) Vegetation shall be visually inspected to identify weeds, accumulated trash or debris, dead or dying vegetation, disease or other infestation problems requiring maintenance attention. Weeds and dead vegetation shall be removed on a regular basis, especially right after the roof is planted. If a certain plant or grass species continues to die, that plant or grass shall be removed and replaced with a more tolerant species. Certified professionals shall only be used to apply chemical applications for the control of disease or insects at trouble spot locations.
 - (d) Trimming and pruning shall be done in accordance with horticulture practices to keep vegetation aesthetically groomed.

6. Hard Roof

a. Overview

Horizontal roof surfaces can be used to attenuate peak runoff associated with

rainfall and effectively detain flow resulting from smaller rain events.

The detention volume can be controlled in several ways, but typically a simple drain ring is placed around the roof drains. As stormwater begins to pond on the roof, flow into the roof drains is controlled by orifices or slits in the drain ring. Extreme flows can be designed to overflow the ring and drain directly to the roof drains or be directed to openings in the parapet walls to prevent structural and flood damage to the roof. The roof deck must be designed to withstand the live load and be properly waterproofed.

b. Design Criteria

- (1) The structural capability of the roof system must be considered when designing a temporary rooftop storage system. For example, a three-inch water depth is equivalent to a load of 15.6 lbs/sq.ft., which is less than most current building code requirements for live loads.
- (2) Consideration must be given to the placement of electrical devices on the roof, such as air conditioning or ventilation systems and lights, and proper measures shall be taken to protect the electrical devices from the collected water.
- (3) Overflow mechanisms shall be provided so that there is no danger of overloading the roof storage system during major storms. Additionally, roof slopes shall be designed to drain positively toward the roof drains to help minimize localized roof ponding or 'bird bath' formation after the detained water volume is released.
- (4) It is recommended that Chapter 16 of the International Building Code, Current Edition be used for additional structural criteria along with ASCE Standard Reference Number 7, Minimum Design Loads for Buildings and Other Structures.
- (5) The amount of credit given for detention volume for rooftop storage shall take into account that many flat roofs already pond significant amounts of water; although not by design. Therefore, when measuring credit given for hard roof detention volume, it is recommended that only credit be given for the total rooftop storage volume less the rooftop storage volume associated with the first inch of rain. Typically, rooftop storage volumes are only effective during the smaller, more frequent rainfall events as the larger, less frequent storms typically exceed the rooftop storage capacity.

c. Inspection and Maintenance Requirements

- (1) Each hard roof installation shall be inspected by the agency responsible for issuing the detention credits to check compliance with the approved drawings before final acceptance is issued and the proper credits are approved. At a minimum, the following items shall be checked during the inspection:

- (a) Roof penetrations for ventilation, electrical or plumbing connections to verify proper sealing against leaks.
 - (b) The overflow system that drains excessive rainfall off of the hard roof once the maximum storage volume is captured.
 - (c) Certification from a registered Professional Engineer or registered Architect that the hard roof, drain system and appurtenances have been installed and operate as designed.
 - (d) Drawings of the hard roof installation.
2. Once the hard roof is installed, additional inspections will be required in order to properly maintain the drainage system and roof membrane. Routine inspections shall be conducted and associated maintenance activities performed on the following:
- (a) Designated drainage paths and drainage system components shall be inspected to ensure proper surface drainage is maintained and that the roof is draining properly after the collected stormwater volume is released from a rainfall event.
 - (b) Routine inspections to collect and remove any trash or debris from the roof shall be conducted to prevent clogging of the roof drains and overflow drainage system.
 - (c) Visible cracks in the roof surface shall be identified and repaired in accordance with the roof manufacturer's recommendations in order to maintain roof integrity.

7. Rain Barrels

a. Overview

A cistern ("rain barrel"), ranging from 55 gallons to several hundred gallons in capacity, is placed near the down spout of a house and is used to collect rain water runoff from the roof of the house. The captured water is then typically used as a pure water source for plants and lawns.

b. Design Criteria

- (1) Gutters and downspouts carry water from the rooftops to rain barrels as shown on Figure 5.
- (2) Screens are required on gutters to prevent clogging.
- (3) Rain barrels shall be equipped with a drain spigot.
- (4) Overflow outlet must be provided to bypass rain barrel from large rainfall events.
- (5) Rain barrel must be designed with removable, child resistant covers and mosquito screening.
- (6) Minimum rain barrel capacity equal to 1" of runoff from roof top surface area.

c. Maintenance and Inspection

- (1) Empty rain barrel after each rainfall event.
- (2) Rain barrel shall be inspected annually.

13.05 QUALITY ASSURANCE

- A. Final design drawings, BMPs, SWPPPs, and SWQMPs will be sealed, signed, and dated by the Professional Engineer registered in the State of Texas responsible for their development.

END OF CHAPTER

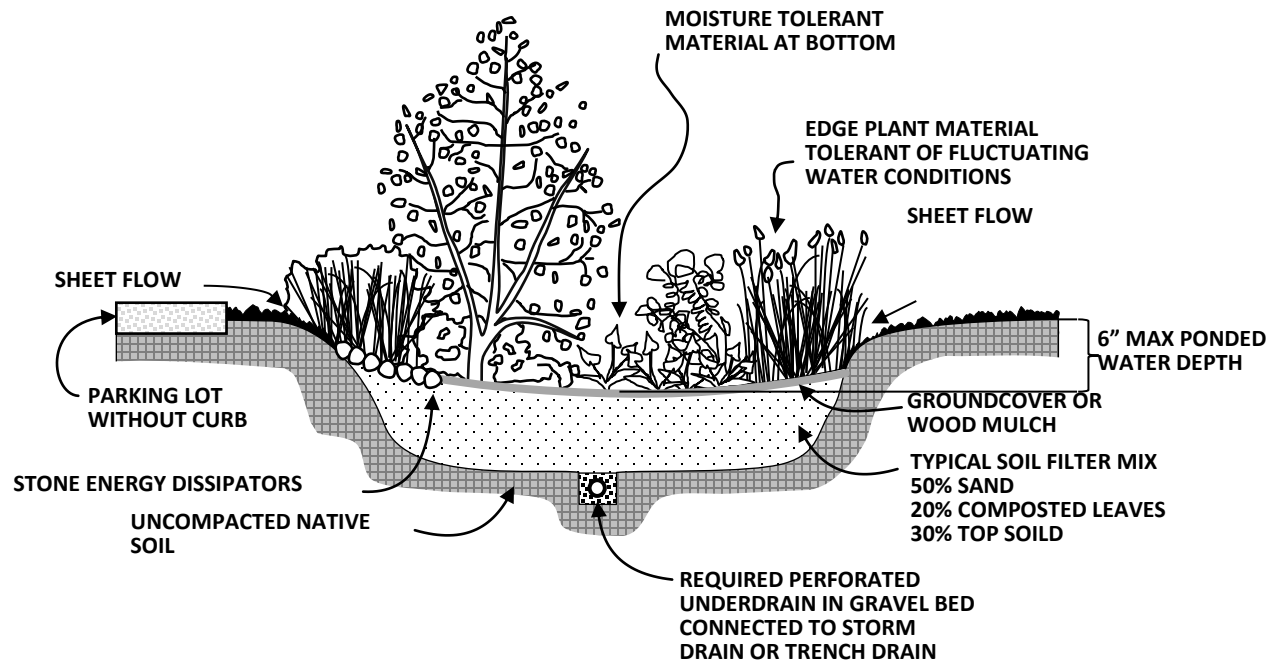


FIGURE 1
POROUS BIORETENTION BASIN

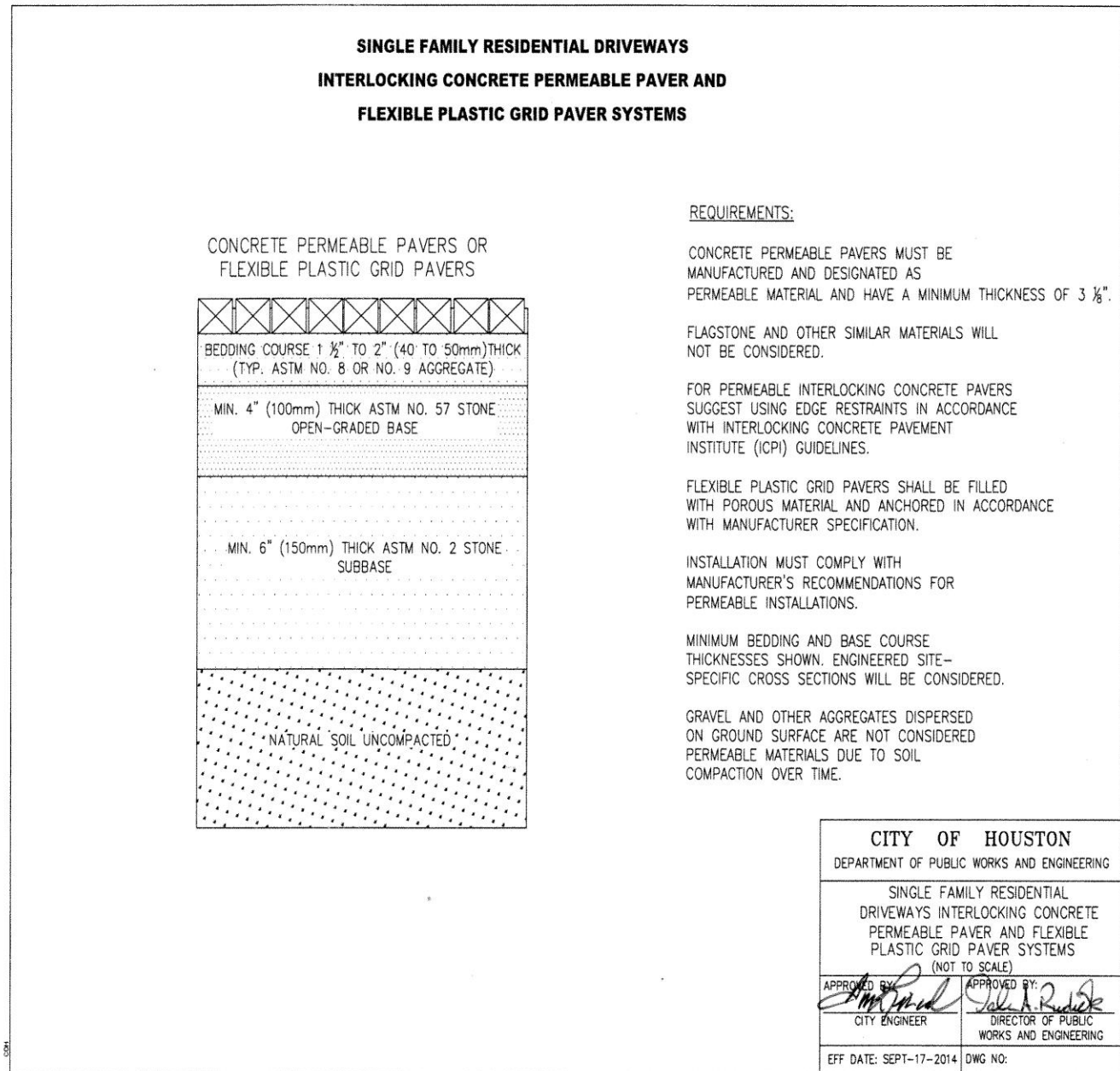


FIGURE 2a
**SINGLE FAMILY RESIDENTIAL DRIVEWAYS INTERLOCKING
 CONCRETE PERMEABLE PAVER AND FLEXIBLE PLASTIC GRID
 PAVER SYSTEMS**

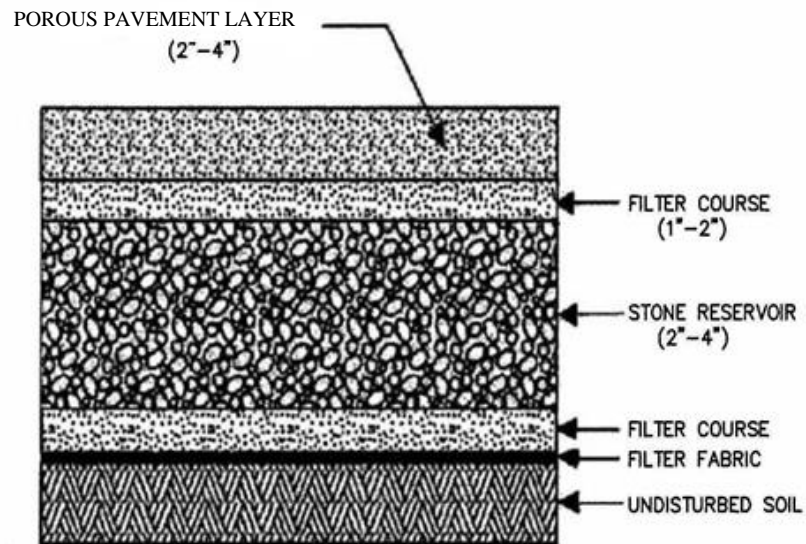


FIGURE 2b
POROUS PAVEMENT TYPICAL SECTION

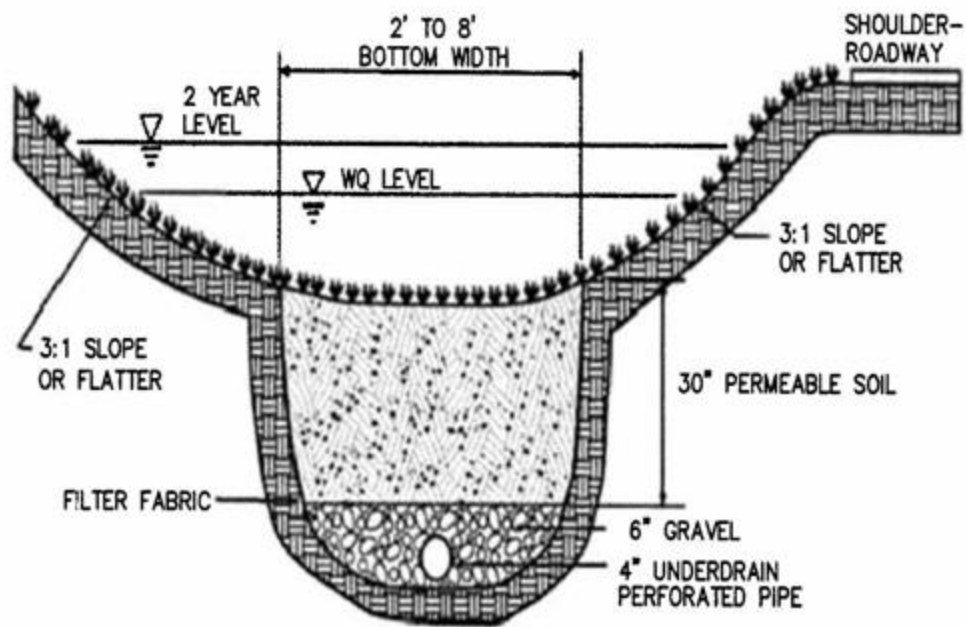


FIGURE 3
DRY SWALE CROSS SECTION

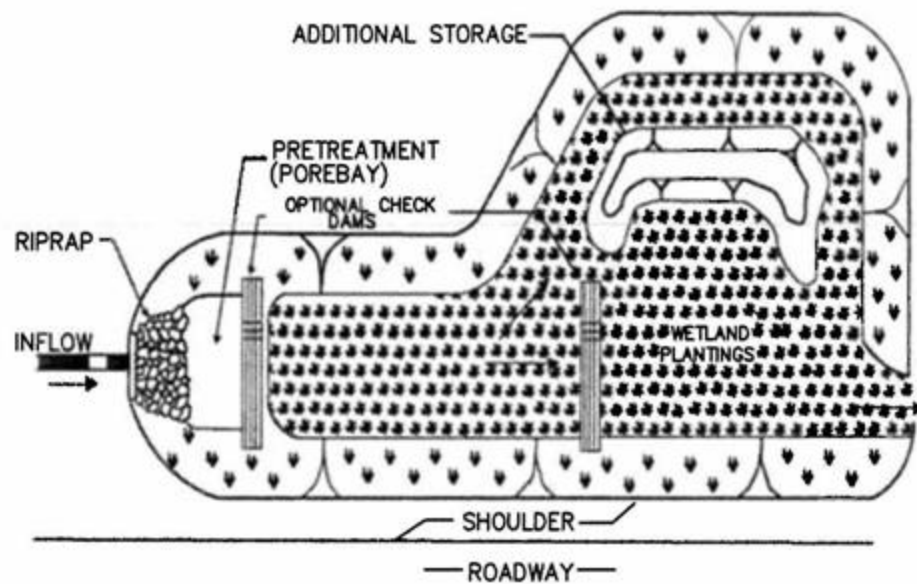


FIGURE 4
WET SWALE PLAN

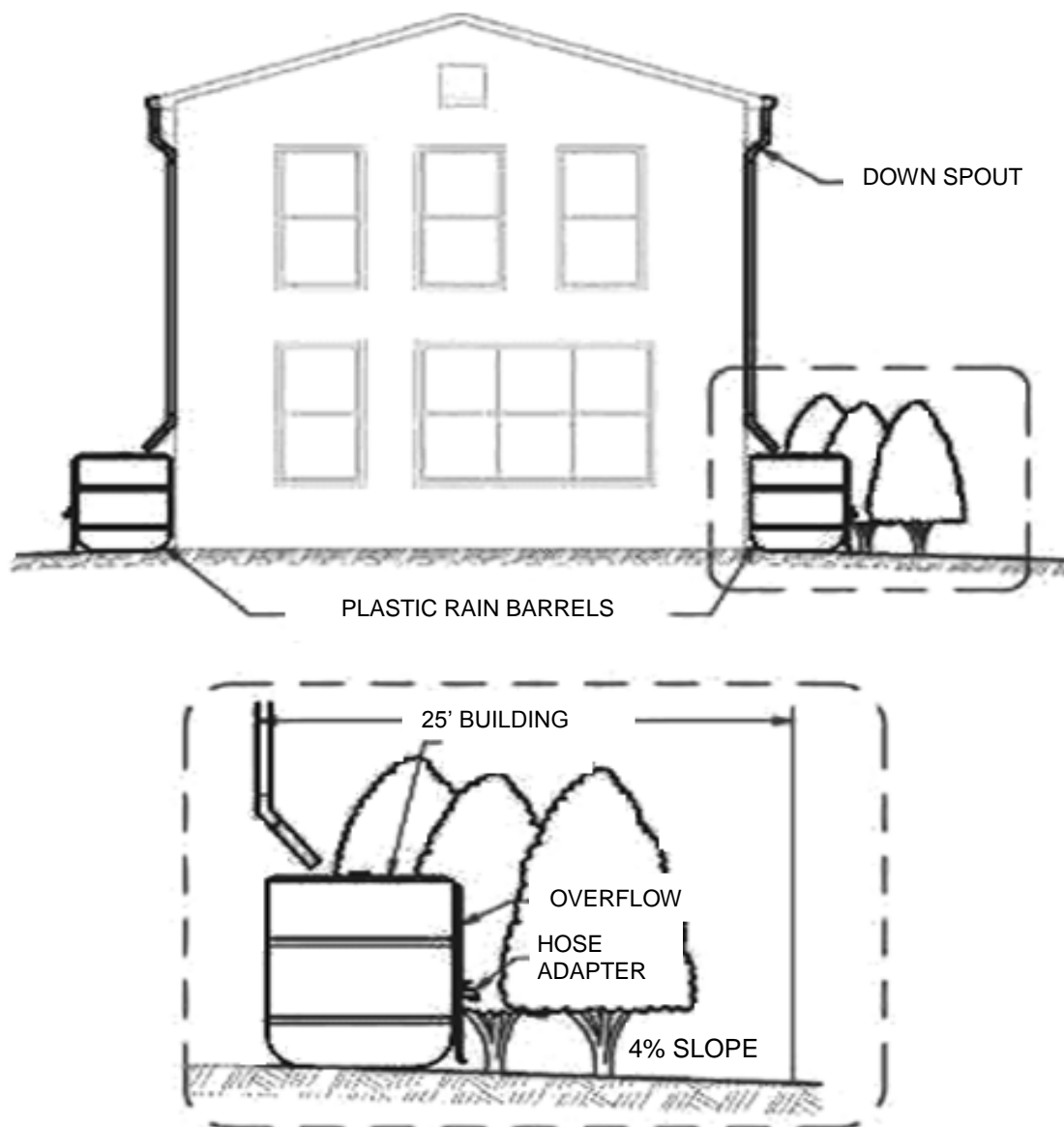


FIGURE 5
TYPICAL RAIN BARREL



CITY OF HOUSTON - CITY COUNCIL

Meeting Date: 8/28/2018

ALL

Item Creation Date: 8/15/2018

20UPA368 Revisions to the International Building Code

Agenda Item#: 35.

Summary:

ORDINANCE amending Sections 103, 105, 106, 114 and 115 of that Volume of the City of Houston Construction Code known as the City of Houston Building Code relating to permit requirements for engineered grading; containing findings and other provisions related to the foregoing subject; providing for severability; providing an effective date

TAGGED BY COUNCIL MEMBERS STARDIG, KNOX and EDWARDS

This was Item 18 on Agenda of September 22, 2018

Background:

AN ORDINANCE AMENDING THE CODE OF ORDINANCES OF HOUSTON BY AMENDING THE BUILDING CODE TO AMEND SECTIONS 103, 105, 106, 114, AND 115 TO REVISE PERMIT REQUIREMENTS FOR ENGINEERED GRADING; PROVIDING FOR OTHER MATTERS RELATED TO THE SUBJECT; PROVIDING FOR A PENALTY; PROVIDING FOR SEVERABILITY; AND PROVIDING AN EFFECTIVE DATE.

Recommendation:

Adopt an Ordinance approving revisions to the Building Code by making the proposed amendments to the International Building Code.

Description:

After the devastating flood losses in Hurricane Harvey, the 2016 Tax Day Flood and the 2015 Memorial Day Flood, the City of Houston has resolved to take every opportunity to make the City more resilient. Mayor Turner organized a Redevelopment and Drainage Task Force composed of stakeholders from building and development, engineering, and neighborhoods and charged it with reviewing ways to make construction in the City more resilient. The Redevelopment and Drainage Task Force held numerous meetings and evaluated infrastructure design requirements.

The Redevelopment and Drainage Task Force made recommendations to the various construction standards for Detention, Fill, and Encroachments. Many of the recommendations necessitated changes to the Infrastructure Design Manual, contained in a separate Resolution. This Ordinance would make some modifications to the International Building Code (adopted by Council in December 2015, effective February 1, 2016) to:

- Clearly define "engineered grading."
- Change the threshold amount for engineered grading plans from 5000 cubic yards to 1000 cubic yards..

Houston Public Works (HPW) presented the proposed changes to the IBC at the May 29, 2018 Transportation, Technology, & Infrastructure (TTI) council meeting and provided an update at the July 23, 2018 TTI meeting. HPW conducted a public outreach campaign during the months of June and July 2018. HPW provided information to the public about the proposed changes on the www.houstonrecovers.org website, hosted or participated in 10 community meetings attended by over 450 members of the public, conducted an online survey with over 450 responses and collected over 150 detailed comments. Over 81% of survey respondents strongly agreed or agreed that tougher storm water regulations are needed to reduce the risk of flooding in Houston

Location:

The proposed revisions will impact construction and building city wide.

Action Recommended:

It is recommended that City Council adopt an ordinance approving the revisions to the City of Houston Building Code.

Carol Ellinger Haddock, P.E.
Director
Houston Public Works

Contact Information:

Christon Butler
Deputy Director, Houston Permitting Center
Phone: (832) 394-9400

Jamila C. Johnson, P.E., CFM
Infrastructure Policy Manager
Phone: (832) 394-9380

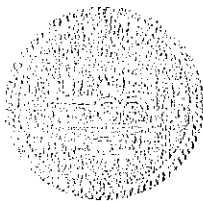
ATTACHMENTS:

Description

Coversheet
Ordinance
Redline

Type

Signed Cover sheet
Ordinance/Resolution/Motion
Backup Material



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:

ALL

Item Creation Date: 8/15/2018

20UPA368 Revisions to the International Building Code

Agenda Item#:

Background:

AN ORDINANCE AMENDING THE CODE OF ORDINANCES OF HOUSTON BY AMENDING THE BUILDING CODE TO AMEND SECTIONS 103, 105, 106, 114, AND 115 TO REVISE PERMIT REQUIREMENTS FOR ENGINEERED GRADING; PROVIDING FOR OTHER MATTERS RELATED TO THE SUBJECT; PROVIDING FOR A PENALTY; PROVIDING FOR SEVERABILITY; AND PROVIDING AN EFFECTIVE DATE.

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City of Houston, Texas, Ordinance No. 2018 - _____

AN ORDINANCE AMENDING SECTIONS 103, 105, 106, 114, AND 115 OF THAT VOLUME OF THE CITY OF HOUSTON CONSTRUCTION CODE KNOWN AS THE CITY OF HOUSTON BUILDING CODE RELATING TO PERMIT REQUIREMENTS FOR ENGINEERED GRADING; CONTAINING FINDINGS AND OTHER PROVISIONS RELATED TO THE FOREGOING SUBJECT; PROVIDING FOR SEVERABILITY; PROVIDING AN EFFECTIVE DATE; AND DECLARING AN EMERGENCY.

WHEREAS, following Hurricane Harvey, the Mayor organized a Redevelopment and Drainage Task Force (the "Task Force"), composed of stakeholders from building and development, engineering and neighborhoods, and charged it with reviewing methods to make construction in the City more resilient; and

WHEREAS, the Task Force held public meetings to consider the issues in development and the current regulations; and

WHEREAS, the Task Force completed its work and presented the findings to the Transportation, Technology, and Infrastructure Committee of City Council on May 29, 2018; and

WHEREAS, the Task Force made recommendations for changes to the Infrastructure Design Manual and the International Building Code (local amendments) to facilitate resilient building that maintains opportunities for the use of, and construction on, private property; and

WHEREAS, after receiving public comment and due consideration and public comment, the City Council finds that the proposed amendments are necessary for the protection of the public health, safety and welfare; **NOW THEREFORE**,

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF HOUSTON, TEXAS:

Section 1. That the findings contained in the preamble of this Ordinance are determined to be true and correct and are hereby adopted as part of this Ordinance.

Section 2. That Sections E103.1 and E103.2 of that volume of the City of Houston Construction Code known as the Building Code (the "Building Code") are hereby amended to read as follows:

"E103.1 Permits required. Except as specified in Section E103.2, no person shall do any *grading* without first having obtained a *grading* permit from the *building official*.

E103.2 Exempted work. A *grading* permit is not required for the following if they meet the definition of *regular grading*:

1. When approved by the *building official*, *grading* in an isolated, self-contained area where there is no danger to private or public property.
2. An *excavation* below finished *grade* for basements and footings of a building, retaining wall or other structure authorized by a valid building permit. This shall not exempt any *fill* made with the material from such *excavation* or exempt any *excavation* having an unsupported height greater than 5 feet (1524 mm) after the completion of such structure.
3. Cemetery graves.
4. Refuse disposal *sites* controlled by other regulations.
5. *Excavations* for wells, tunnels, or utilities.
6. Mining, quarrying, excavating, processing or stockpiling of rock, sand, gravel, aggregate or clay where established and provided for by law, provided such operations do not affect the lateral support or increase the stresses in or pressure upon any adjacent or contiguous property.
7. Exploratory *excavations* under the direction of soil engineers or *engineering geologists*.
8. An *excavation* that: (1) is less than 2 feet (610 mm) in depth or (2) does not create a cut *slope* greater than 5 feet (1524 mm) in height and steeper than 1 unit vertical in 1½ units horizontal (66.7% *slope*).
9. A *fill* less than 1 foot (305 mm) in depth and placed on natural terrain with a *slope* flatter than 1 unit vertical in 5 units horizontal (20% *slope*), or less than 3 feet (914 mm) in depth, not intended to support structures, that does not exceed 50 cubic yards (38.3 m³) on any one lot and does not obstruct a drainage course.

Exemption from the permit requirements of this chapter shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this chapter or any other laws or ordinances."

Section 3. That Section E105.1 of the Building Code is hereby amended by adding, in the appropriate alphabetical order positions, the following definitions:

"ENGINEERED GRADING. Any *grading* in excess of 1,000 cubic yards."

"REGULAR GRADING. Any *grading* less than or equal to 1,000 cubic yards."

Section 4. That Sections 106.3, 106.4 and 106.9 of the Building Code are hereby amended to read as follows:

"E106.3 *Grading designation.* *Grading* in excess of 1,000 cubic yards (765 m³) shall be performed in accordance with an approved *grading* plan prepared by a Texas professional engineer and shall be designated as '*engineered grading.*' *Grading* involving less than or equal to 1,000 cubic yards (765 m³) shall be designated '*regular grading*' unless the permittee chooses to have the *grading* performed as *engineered grading*, or the city engineer or building official determines that the property is located in a Houston special flood hazard area as defined in Chapter 19 of the City Code, special conditions or unusual hazards exist, in which case *grading* shall conform to the requirements for *engineered grading.*

E106.4 *Engineered grading requirements.* Application for a *grading* permit shall be accompanied by two sets of plans and specifications, as well as supporting data consisting of a *soils engineering* report and *engineering geology* report. The plans and specifications shall be prepared and signed by a Texas professional engineer.

Specifications shall contain information covering construction and material requirements.

Plans shall be drawn to scale upon substantial paper or cloth and shall be of sufficient clarity to indicate the nature and extent of the work proposed and show in detail that they will conform to the provisions of this code and all relevant laws, ordinances, rules and regulations. The first sheet of each set of plans shall display the location of the work, the name and address of the owner, and the name of the person who prepared them.

The plans shall include the following information:

1. General vicinity of the proposed *site*.
2. Property limits and accurate contours of existing ground and details of terrain and area drainage.
3. Limiting dimensions, elevations, or finish contours to be achieved by the *grading* and proposed drainage channels and related construction.
4. Detailed plans of all surface and subsurface drainage devices, walls, cribbing, dams and other protective devices to be constructed with, or as a part of, the proposed work, together

with a map showing the drainage area and the estimated runoff of the area served by any drains.

5. Location of any buildings or structures on the *site* upon which the work is to be performed and the location of any buildings or structures on property adjacent to the *site* that are within 15 feet (4,572 mm) of the property or that may be affected by the proposed *grading* operations.
6. The dates of the *soils engineering* and *engineering geology* reports together with the names, addresses, and phone numbers of the firms or individuals who prepared the reports.

Recommendations included in the *soils engineering* report and the *engineering geology* report shall be incorporated in the *grading* plans or specifications. Specific recommendations contained in the *soils engineering* report and the *engineering geology* report that are applicable to the proposed *grading* shall at minimum be included by reference in the *engineered grading* plans."

"E106.9 Issuance. The provisions of Section 105.3 are applicable to *grading* permits. The *building official* may require that *grading* operations and project designs be modified if delays occur which incur weather-generated problems not considered at the time the permit was issued."

Section 5. That Section E114.1 of the Building Code is hereby amended to read as follows:

"E114.1 General. *Grading* operations for which a permit is required shall be subject to inspection by the *building official*. *Professional inspection* of *grading* operations shall be provided by the Texas professional engineer retained to provide such services in accordance with Section E114.5 for *engineered grading* and as required by the *building official* for *regular grading*."

Section 6. That Sections E115.1 and 115.2 of the Building Code are amended to read as follows:

"E115.1 Final reports. Upon completion of the rough *grading* work and at the final completion of the work, the following reports and drawings and supplements thereto are required for *engineered grading* or when *professional inspection* is performed for *regular grading*, as applicable.

1. An as-built *grading* plan prepared by the Texas professional engineer retained to provide such services in accordance with Section E114.5 showing original ground surface elevations, *as-graded* ground surface elevations, lot drainage patterns,

and the locations and elevations of surface drainage facilities and of the outlets of subsurface drains. As-constructed locations, elevations and details of subsurface drains shall be shown as reported by the *soils engineer*. The Texas professional engineers shall provide a special inspection report to the field inspector that states, to the best of their knowledge, the work within their area of responsibility was done in accordance with the final approved *grading plan* and applicable provisions of this chapter.

2. A report prepared by the *soils engineer* retained to provide such services in accordance with Section E114.5, including locations and elevations of field density tests, summaries of field and laboratory tests, other substantiating data, and comments on any changes made during *grading* and their effect on the recommendations made in the approved *soils engineering* investigation report. *Soils engineers* shall provide a special inspection report to the field inspector that states, to the best of their knowledge, the work within their area of responsibilities is in accordance with the approved *soils engineering* report and applicable provisions of this chapter.
3. A report prepared by the *engineering geologist* retained to provide such services in accordance with Section E114.5, including a final description of the geology of the *site* and any new information disclosed during the *grading* and the effect of same on recommendations incorporated in the approved *grading plan*. *Engineering geologists* shall provide a special inspection report to the field inspector that states, to the best of their knowledge, the work within their area of responsibility is in accordance with the approved *engineering geologist* report and applicable provisions of this chapter.

E115.2 Notification of completion. The permittee shall notify the *building official* when the grading operation is ready for final inspection. Final approval shall not be given until all work, including installation of all drainage facilities and their protective devices, and all erosion-control measures have been completed in accordance with the final approved *grading plan*, and the required special inspection reports have been submitted."

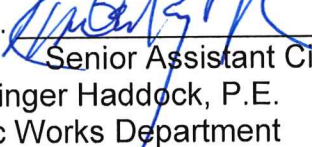
Section 7. That, if any provision, section, subsection, sentence, clause, or phrase of this Ordinance, or the application of same to any person or set of circumstances, is for any reason held to be unconstitutional, void or invalid, the validity of the remaining portions of this Ordinance or their application to other persons or sets of circumstances shall not be affected thereby, it being the intent of the City Council in adopting this Ordinance that no portion hereof or provision or regulation contained herein shall become

inoperative or fail by reason of any unconstitutionality, voidness or invalidity of any other portion hereof, and all provisions of this Ordinance are declared to be severable for that purpose.

Section 8. That there exists a public emergency requiring that this Ordinance be passed finally on the date of its introduction as requested in writing by the Mayor; therefore, this Ordinance shall be passed finally on such date and shall take effect at 12:01 a.m. on the later of September 1, 2018.

PASSED AND APPROVED this _____ day of _____, 2018.

Mayor of the City of Houston

Prepared by Legal Dept. 
KM/ems 08/07/2018 Senior Assistant City Attorney
Requested by: Carol Ellinger Haddock, P.E.
Director, Houston Public Works Department

L.D. File No. 0641800029001

APPENDIX E

EXCAVATION AND GRADING

* * *

SECTION E103

PERMITS REQUIRED

E103.1 Permits required. Except as specified in Section E103.2, no person shall do any *grading* without first having obtained a *grading* permit from the *building official*.

E103.2 Exempted work. A *grading* permit is not required for the following if they meet the definition of *regular grading*:

1. When approved by the *building official*, *grading* in an isolated, self-contained area where there is no danger to private or public property.
2. An *excavation* below finished *grade* for basements and footings of a building, retaining wall or other structure authorized by a valid building permit. This shall not exempt any *fill* made with the material from such *excavation* or exempt any *excavation* having an unsupported height greater than 5 feet (1524 mm) after the completion of such structure.
3. Cemetery graves.
4. Refuse disposal *sites* controlled by other regulations.
5. *Excavations* for wells, tunnels, or utilities.
6. Mining, quarrying, excavating, processing or stockpiling of rock, sand, gravel, aggregate or clay where established and provided for by law, provided such operations do not affect the lateral support or increase the stresses in or pressure upon any adjacent or contiguous property.
7. Exploratory *excavations* under the direction of soil engineers or *engineering geologists*.
8. An *excavation* that: (1) is less than 2 feet (610 mm) in depth or (2) does not create a cut *slope* greater than 5 feet (1524 mm) in height and steeper than 1 unit vertical in 1½ units horizontal (66.7% *slope*).
9. A *fill* less than 1 foot (305 mm) in depth and placed on natural terrain with a *slope* flatter than 1 unit vertical in 5 units horizontal (20% *slope*), or less than 3 feet (914 mm) in depth, not intended to support structures, that does not exceed 50 cubic yards (38.3 m³) on any one lot and does not obstruct a drainage course.

Exemption from the permit requirements of this chapter shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this chapter or any other laws or ordinances.

* * *

SECTION E105 DEFINITIONS

E105.1 General. For the purposes of this appendix, the definitions listed hereunder shall be construed as specified in this section.

* * *

ENGINEERED GRADING. Any *grading* in excess of 1,000 cubic yards.

* * *

REGULAR GRADING. Any *grading* less than or equal to 1000 cubic yards.

* * *

SECTION E106 GRADING PERMIT REQUIREMENTS

* * *

E106.3 *Grading designation.* *Grading* in excess of ~~5,000~~ 1,000 cubic yards (~~3625~~ 765 m³) shall be performed in accordance with ~~the an~~ approved *grading* plan prepared by a Texas professional civil engineer and shall be designated as "*engineered grading*." *Grading* involving less than or equal to ~~5,000~~ 1,000 cubic yards (~~3825~~ 765 m³) shall be designated "*regular grading*" unless the permittee chooses to have the *grading* performed as *engineered grading*, or the city engineer or building official determines that the property is located in a Houston special flood hazard area as defined in Chapter 19 of the City Code, special conditions or unusual hazards exist, in which case *grading* shall conform to the requirements for *engineered grading*.

E106.4 *Engineered grading requirements.* Application for a *grading* permit shall be accompanied by two sets of plans and specifications, as well as supporting data consisting of a *soils engineering* report and *engineering geology* report. The plans and specifications shall be prepared and signed by an Texas professional engineer individual licensed by the State of Texas ~~to prepare such plans or specifications when required by the building official.~~

Specifications shall contain information covering construction and material requirements.

Plans shall be drawn to scale upon substantial paper or cloth and shall be of sufficient clarity to indicate the nature and extent of the work proposed and show in detail that they will conform to the provisions of this code and all relevant laws, ordinances, rules and regulations. The first sheet of each set of plans shall display the location of the work, the name and address of the owner, and the name of the person who prepared them.

The plans shall include the following information:

1. General vicinity of the proposed *site*.
2. Property limits and accurate contours of existing ground and details of terrain and area drainage.

3. Limiting dimensions, elevations, or finish contours to be achieved by the *grading* and proposed drainage channels and related construction.
4. Detailed plans of all surface and subsurface drainage devices, walls, cribbing, dams and other protective devices to be constructed with, or as a part of, the proposed work, together with a map showing the drainage area and the estimated runoff of the area served by any drains.
5. Location of any buildings or structures on the *site* upon which the work is to be performed and the location of any buildings or structures on property adjacent to the *site* that are within 15 feet (4572 mm) of the property or that may be affected by the proposed *grading* operations.
6. The dates of the *soils engineering* and *engineering geology* reports together with the names, addresses, and phone numbers of the firms or individuals who prepared the reports.

Recommendations included in the *soils engineering* report and the *engineering geology* report shall be incorporated in the *grading* plans or specifications. ~~When approved by the building official, specific~~ Specific recommendations contained in the *soils engineering* report and the *engineering geology* report that are applicable to the proposed grading shall at minimum may be included by reference in the engineered grading plans.

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E106.9 Issuance. The provisions of Section 105.3 are applicable to *grading* permits. The *building official* may require that *grading* operations and project designs be modified if delays occur which incur weather-generated problems not considered at the time the permit was issued.

~~_____ The building official may require professional inspection and testing by a soils engineer. When the building official has cause to believe that geologic factors may be involved, the grading will be required to conform to the requirements for engineered grading.~~

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SECTION E114 GRADING INSPECTION

E114.1 General. *Grading* operations for which a permit is required shall be subject to inspection by the *building official*. Professional inspection of *grading* operations shall be provided by the Texas professional engineer ~~civil engineer, soils engineer and the engineering geologist~~ retained to provide such services in accordance with Section E114.5 for engineered grading and as required by the *building official* for *regular grading*.

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SECTION E115 COMPLETION OF WORK

E115.1 Final reports. Upon completion of the rough *grading* work and at the final completion of the work, the following reports and drawings and supplements thereto are required for

engineered grading or when *professional inspection* is performed for *regular grading*, as applicable.

1. An as-built *grading* plan prepared by the Texas professional engineer civil engineer retained to provide such services in accordance with Section E114.5 showing original ground surface elevations, *as-graded* ground surface elevations, lot drainage patterns, and the locations and elevations of surface drainage facilities and of the outlets of subsurface drains. As-constructed locations, elevations and details of subsurface drains shall be shown as reported by the *soils engineer*. The Texas professional Civil-engineers shall provide a special inspection report to the field inspector that states that, to the best of their knowledge, the work within their area of responsibility was done in accordance with the final approved *grading* plan and applicable provisions of this chapter.
2. A report prepared by the *soils engineer* retained to provide such services in accordance with Section E114.5, including locations and elevations of field density tests, summaries of field and laboratory tests, other substantiating data, and comments on any changes made during *grading* and their effect on the recommendations made in the approved *soils engineering* investigation report. *Soils engineers* shall provide a special inspection report to the field inspector that states submit a statement that, to the best of their knowledge, the work within their area of responsibilities is in accordance with the approved *soils engineering* report and applicable provisions of this chapter.
3. A report prepared by the *engineering geologist* retained to provide such services in accordance with Section E114.5, including a final description of the geology of the *site* and any new information disclosed during the *grading* and the effect of same on recommendations incorporated in the approved *grading* plan. *Engineering geologists* shall provide a special inspection report to the field inspector that states submit a statement that, to the best of their knowledge, the work within their area of responsibility is in accordance with the approved *engineering geologist* report and applicable provisions of this chapter.

E115.2 Notification of completion. The permittee shall notify the *building official* when the grading operation is ready for final inspection. Final approval shall not be given until all work, including installation of all drainage facilities and their protective devices, and all erosion-control measures have been completed in accordance with the final approved *grading* plan, and the required special inspection reports have been submitted.