

## PERMIT APPLICATION REVIEW FORM FOR CABLE, CONDUIT, AND POLE LINE ACTIVITY IN FORT BEND COUNTY

#### Fort Bend County Engineering Department 301 Jackson Suite 401

Richmond, Texas 77469 281.633.7500 Permits@fortbendcountytx.gov

Х	Right of Way Permit			
Commercial Driveway Per				
Perr	nit No: 2017-16131			

The following "Notice of Proposed Cable, Condattachments have been reviewed and the notic of Fort Bend County, Texas.					
(1) COMPLETE APPLICATION FORM:					
X a. Name of road, street, and/or	drainage ditch affecte	d.			
X b. Vicinity map showing course	b. Vicinity map showing course of directions				
X c. Plans and specifications	c. Plans and specifications				
(2) BOND:					
County Attorney, approval when applicable.	1				
Perpetual bond currently posted.	Bond No:	Amount:			
X Performance bond submitted.	Bond No:	Amount: \$75,000.00			
Cashier's Check	Check No:	Amount:			
(3) DRAINAGE DISTRICT APPROVAL (WHE	N APPLICABLE): -	Date			
We have reviewed this project and agree it n	neets minimum requi	rements.			
Charles O. Af		10/13/201	17		
Permit Administrator		Date			



## REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

## Fort Bend County Engineering Department 301 Jackson Suite 401

301 Jackson Suite 401 Richmond, Texas 77469 281.633.7500 Permits@fortbendcountytx.gov

	Right of Way Permit			
Commercial Driveway Perm				
Perr	nit No: 2017-16131			

		Permit No: 2	017-16131			
Anni	icant: AP Tu	rnKoo Construction Compa	ny Inc			
		rnKee Construction Compa	-	7		
	Location Site:	West Airport Drive, Richm				
Bono	d No.	Date of Bond: _	9/15/2017	_Amount:	\$75,000.00	
Layin Road Comi Texa:	ng, Construction ls, Streets, High missioners Cour s, of the Minute	came to make use of certain Maintenance, and Repair of ways, and Drainage Ditches in t of Fort Bend County, Texas, s of the Commissioners Court apter 181, Vernon's Texas Sta	Buried Cables Fort Bend Co " as passed by of Fort Bend	, Conduits, and unty, Texas, Un the Commissio County, Texas,	Pole Lines, In, Under, Acro der the Jurisdiction of the oners Court of Fort Bend Co	oss or Along
Note 1. 2.	Evidence of regrounds for jo Written notice a. 4 b.	eview by the Commissioners C b shutdown. es are required: 48 hours in advance of constr When construction is complet Administrator thru MyGovern pires one (1) year from date o	uction start upted and ready	o, and for final inspec org portal.	tion, submit notification to	
Comi	missioner e of said above	October, 2017, Upon Motion of the control of the co	put and carrioged by the Co	ed, it is ORDERE mmissioners Co	ED, ADJUDGED AND DECRE	
Signa	ature		Prese	ented to Commi	issioners Court and approv	ved.
Ву:	Church County Engine	-/	Date	Recorded	Comm. Court No	
By:	N/A		Clerk By:	of Commission	ers Court	
,	Drainage Distri	ct Engineer/Manager		Deputy		-

## PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROAD, COMMERCIAL DRIVEWAY AND MEDIAN OPENINGS OR MODIFICATIONS (AUTHORIZED)

	BOND NO	
THE STATE OF TEXAS		N BY THESE PRESENTS:
Texas, hereinafter called the Pri laws of the state of Texas an is located at (name/address/pho State of Texas, authorized to ac address is 9737 Great Hills Trai Robert E. Hebert, County Ju Seventy Five Thousand Dollar to said Robert E. Hebert, County	Sconstruction Company, Inc. whose incipal, and SureTec Insurance of authorized to do an indemnifyione) 1330 Post Oak Blvd., Suite 1100 Houston cept service in all suits and actil, Ste 320, Austin, TX 78759, hedge of Fort Bend County, To Dollars (\$_75,000.00) currey Judge of Fort Bend County, Te, the undersigned, bind ourse	address, phone) is
constructing, maintaining and/o roads, streets and highways, con State of Texas, under the jui Commissioners' Court order add	or repairing one or more cables, mmercial driveway and median or risdiction of the Commissioner opted on the <u>1st</u> day of <u>December</u> unty, Texas, regulating same, w	EREAS, the above bounden principal contemplates laying, conduits, and/or pole lines in, under, across and/or along penings or modifications in the County of Fort Bend, and the s' Court of Fort Bend County, Texas, pursuant to the r. A.D. 1980, recorded in Volume 13, of the Commissioners' hich Commissioners' Court order is hereby referred to and
AND WHEREAS, the princonduit and/or pole line activity,	ncipal desires to provide Fort Be commercial driveway and media	nd County with a performance bond covering all such cable, n openings or modifications;
activity (including, but not limiter in, under, across and/or along rethe County of Fort Bend and Stapursuant to and in accordance order set forth and specified to be shall pay over and make good a	d to the laying, construction, mai oads, streets and highways, con ate of Texas, under the jurisdiction with minimum requirements and be by said principal done and per and reimburse Fort Bend County,	all faithfully perform all its cable, conduit and/or pole line ntenance and/or repair of cables, conduits and/or pole lines) mercial driveway and median openings or modifications in on of the Commissioners Court of Fort Bend County, Texas, conditions of the above mentioned Commissioners' Court formed, at the time and in the manner therein specified, and all loss and damages which Fort Bend County may sustain en this obligation shall be null and void, otherwise to remain
This bond is payable at t	the County Courthouse in the Co	unty of Fort Bend and State of Texas.
It is understood that at and/or additional bonds of the pr	any time Fort Bend County de incipal.	ems itself insecure under this bond, it may require further
EXECUTED this15th	day of September	
a a	AR	Turnkee Construction Company, Inc.  PRINCIPAL  BY

SureTec Insurance Company

Misty Witt, Attorney in Fact

SURETY

De	N A	44-	

#### SureTec Insurance Company LIMITED POWER OF ATTORNEY

Know All Men by These Presents, That SURETEC INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Texas, and having its principal office in Houston, Harris County, Texas, does by these presents make, constitute and appoint

#### Misty Witt

its true and lawful Attorney-in-fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include waivers to the conditions of contracts and consents of surety for:

Principal: AR Turnkee Construction Company, Inc.

Obligee: Fort Bend County Judge

Amount: \$ 75,000.00

and to bind the Company thereby as fully and to the same extent as if such bond were signed by the President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney-in-Fact may do in the premises. Said appointment is made under and by authority of the following resolutions of the Board of Directors of the SureTec Insurance Company:

Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and of behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Corporate Secretary.

Be it Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached. (Adopted at a meeting held on 20<sup>th</sup> of April, 1999.)

In Witness Whereof, SURETEC INSURANCE COMPANY has caused these presents to be signed by its President, and its corporate seal to be hereto affixed this 6th day of April, A.D. 2017.

to be hereto affixed this our day of April, A.D. 2017.

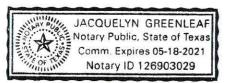
State of Texas County of Harris

SS:

By: John Knox/Jr., Presiden

SURETEC INSURANCE COM

On this 6th day of April, A.D. 2017 before me personally came John Knox, Jr., to me known, who, being by me day sworn, did depose and say, that he resides in Houston, Texas, that he is President of SURETEC INSURANCE COMPANY, the company described in and which executed the above instrument; that he knows the seal of said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto by like order.



Jacquelyn Greenleaf, Notary Public
My commission expires May 18, 2021

I, M. Brent Beaty, Assistant Secretary of SURETEC INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Company, which is still in full force and effect; and furthermore, the resolutions of the Board of Directors, set out in the Power of Attorney are in full force and effect.

Given under my hand and the seal of said Company at Houston, Texas this

day

September

2017

A.D.

M. Brent Beaty, Assistant Secretary

Any instrument issued in excess of the penalty stated above is totally void and without any validity.

For verification of the authority of this power you may call (713) 812-0800 any business day between 8:00 am and 5:00 pm CST.

## SureTec Insurance Company THIS BOND RIDER CONTAINS IMPORTANT COVERAGE INFORMATION

#### Statutory Complaint Notice/Filing of Claims

To obtain information or make a complaint: You may call the Surety's toll free telephone number for information or to make a complaint or file a claim at: 1-866-732-0099. You may also write to the Surety at:

SureTec Insurance Company 9737 Great Hills Trail, Suite 320 Austin, Tx 78759

You may contact the Texas Department of Insurance to obtain information on companies, coverage, rights or complaints at 1-800-252-3439. You may write the Texas Department of Insurance at

PO Box 149104 Austin, TX 78714-9104 Fax#: 512-490-1007

Web: <a href="http://www.tdi.state.tx.us">http://www.tdi.state.tx.us</a>
Email: ConsumerProtection@tdi.texas.gov

PREMIUM OR CLAIM DISPUTES: Should you have a dispute concerning your premium or about a claim, you should contact the Surety first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

Texas Rider 06042014 1

## FORT BEND COUNTY MUNICIPAL UTILITY DISTRICT NO. 134A FORT BEND COUNTY, TEXAS

# CONSTRUCTION PLANS FOR 14 INCH FORCEMAIN EXTENSION

TO SERVE

# ALIANA WEST AIRPORT BOULEVARD CITY OF HOUSTON E.T.J.

NO. 1968-1051

#### NOTES

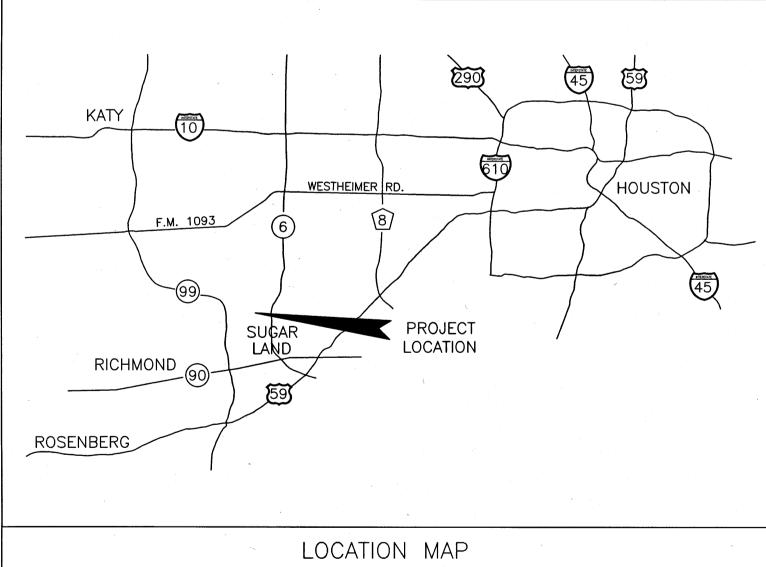
- THESE PLANS WERE PREPARED TO MEET OR EXCEED FORT BEND COUNTY AND CITY OF HOUSTON SUBDIVISION RULES AND REGULATIONS (AS APPLICABLE) AS CURRENTLY AMMENDED.
- CONSTRUCTION WILL BE MONITORED BY A PROFESSIONAL ENGINEER TO INSURE COMPLIANCE WITH THE CONSTRUCTION PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING ENTITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CITY OF HOUSTON PUBLIC WORKS DEPARTMENT FORT BEND COUNTY DRAINAGE DISTRICT (DWAYNE GRIGAR)

(281) 342-2863 ASSISTANT TO THE FORT BEND COUNTY ENGINEER construction@fortbendcountytx.gov

(713) 837-0050

- ONLY AUTHORIZED INDIVIDUALS FROM EITHER THE TESTING COMPANY OR A REPRESENTATIVE OF LJA ENGINEERING, INC. HAVE THE AUTHORITY TO ADD WATER TO A CONCRETE TRUCK.
- CONTRACTOR SHALL CONTACT ANY PERTINENT UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION OR CONSTRUCTION IN THE VICINITY OF THEIR EASEMENTS AND/OR RIGHT-OF-WAYS.
- THE OPENING AND CLOSING OF ALL VALVES ON EXISTING WATER LINES MUST BE PERFORMED EXCLUSIVELY BY THE DISTRICT OPERATOR.
- THE DISTRICT OPERATOR MUST PERFORM ALL WATER LINE BACTERIOLOGICAL TESTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE DISTRICT.
- PRIOR TO CONSTRUCTION OF THIS FACILITY WITHIN OR BY THE DISTRICT, THE DISTRICT OR THE ENGINEER WILL GIVE A WRITTEN NOTICE BY REGISTERED OR CERTIFIED MAIL TO THE DIRECTION OF PUBLIC WORKS AND ENGINEERING, CITY OF HOUSTON, STATING THE DATE SUCH
- CONTRACTOR SHALL NOTIFY THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING, OFFICE OF THE CITY ENGINEER, 48 HOURS BEFORE STARTING WORK ON THIS PROJECT. TELEPHONE NO. (832) 394-9098

DATE: JULY 2017



ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!! (713)223-4567 (IN HOUSTON)
(NEW STATEWIDE NUMBER OUTSIDE HOUSTON) 1-800-545-6005

> FLOOD INSURANCE MAP PANEL 140 OF 575 MAP# 48157C0140L FLOÖD ZONE "X" AND ZONE AE ETJ DETENTION PLANS INFORMATION 1) STORM WATER DETENTION PLANS

IS PROVIDED IN RED GULLEY LAKES PH. 1&2. ALIANA DETENTION/AMENITY PHASE 2.

OYSTER CREEK DRAINAGE IMPROVEMENTS PHASE 3, AND OYSTER CREEK DRAINAGE

DRAINAGE IMPROVEMENTS PHASE 4
ENGINEERING FIRM LJA ENGINEERING & SURVEYING DATE SIGNED MAY 2007, JANUARY 2012, DECEMBER 2013, FEBRUARY 2014, APRIL 2015 APPROVED BY FORT BEND COUNTY ENGINEERING DEPARTMENT

2) STORM WATER DRAINAGE DESIGN REPORT
REPORT TITLE MASTER DRAINAGE PLAN FOR ALIANA DEVELOPMENT DATE JANUARY 2012 (UPDATED SEPTEMBER 2013) ENGINEERING FORM REPORT

DATE OF ACKNOWLEDGEMENT BY FBC DRAINAGE DISTRICT, NOVEMBER 2013, APRIL 2015

3) INCREASED IMPERVIOUS COVER = 1122.60 ACRES.

DETENTION RATE REQUIRED = 0.52 ACRE—FEET/ACRE

DETENTION RATE REQUIRED = 0.52 ACRE-FEET/ACRE DETENTION RATE PROVIDED =

FORT BEND COUNTY ENGINEER

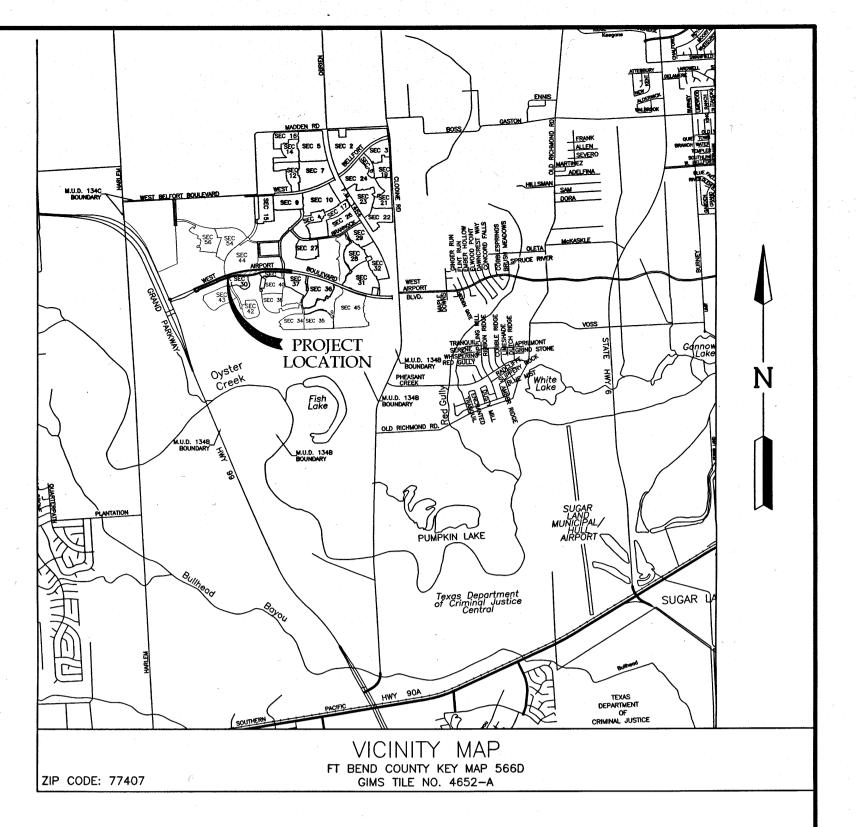
ENGINEER: Mily Stagle, PE, PTOE

8/16/17 THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN ONE (1) YEAR FROM DATE OF APPROVAL.

**ENGINEER:** 

LJA Engineering, Inc.

2929 Briarpark Drive Suite 600 Houston, Texas 77042 Phone 713.953.5200 Fax 713.953.5026 FRN-F-1386



### DETAILS

SANITARY SEWER DETAILS 10. SANITARY SEWER DETAILS AND TRAFFIC CONTROL DETAILS

> NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES ILMS # 16094302 COH LOG# 16-1149 LJA Engineering, Inc. SURVEYED BY: FB NO.: OF HOUSTON

Saul Ash 7-7-17 CITY ENGINEER FOR CITY OF HOUSTON USE ONL' ACCEPTED AND FILED DIRECTOR OF PUBLIC WORKS AND ENGINEERING 58544 CITY DRAWING NUMBER

OF

MOUSTON, TEXAS

## DEVELOPER: ALIANA DEVELOPMENT COMPANY

11200 RICHMOND AVENUE SUITE 280 HOUSTON, TEXAS 77082

#### I CERTIFY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE AND THAT THE

RECORD DRAWING

CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS



JASON M. KELLY

91021

BY \_\_\_\_\_ DATE \_\_\_\_

a copy of which shall be sent to the Engineer.

- Water lines, wastewater collection systems, and drainage systems shall be constructed and tested in accordance with the City of Houston, Department of Public Works and Engineering "Standard Construction Specifications" dated October 2002, and "Standard Construction Details for Wastewater Collection Systems, Water Lines, Storm Drainage and Street Paving" dated October 2002 unless otherwise noted and approved on these plans. The design is consistent with the minimum standards established in the "City of Houston Department of Public Works and Engineering Infrastructure Design Manual" dated July 2015. Note that plan signatures expire after 1 year and the latest editions of design rules, specifications & manuals shall govern as of the date of resigning.
- The contractor shall be fully responsible for any and all damage to existing public or private utility lines, including but not limited to paving, water lines, wastewater collection systems and storm sewers during construction. All damage shall be repaired in accordance with City of Houston Department of Public Works and Engineering "Standard Construction Specifications" dated July 2011 with latest addenda and amendments thereto, with no cost to the public.
- The Contractor shall notify the following at least 48 hours prior to beginning City of Houston Engineer, Dept. of Public Works & Engineering .....(832) 395-2511
  The City of Houston Engineer ......(713) 316-3561 Fort Bend County Engineering Dept......Email: CONSTRUCTION@FORTBENDCOUNTYTX.GOV Texas One-Call - Houston Metropolitan Area.....(713) 223-4567 NOTE: A verification number is required from the L.S.N.C.. .....(281) 490–9432 (S.B.C., Reliant, Warner Cable, etc.) or (800) 245-4545 Notification to City of Houston Engineer shall be followed up with a letter,
- Existing utility information shown is not guaranteed to be accurate and all inclusive. All existing utility locations are approximate and should be verified by the Contractor in advance of his construction. Any conflict or discrepancy discovered must be immediately brought to the Engineer's attention.
- WARNING: Overhead lines may exist on the property. We have not attempted to mark those lines since they are clearly visible, but the contractor should locate them prior to beginning any construction. Texas Law, Section 752, Health and Safety Code, prohibits all activities in which persons or equipment may come within six feet of energized overhead power lines, and federal regulations, Title 29, Part 1910.180(1) and Part 1926.550(A)(15) require a minimum clearance of ten feet from facilities. The above laws carry both criminal and civil liabilities, with Contractors and Owners being legally responsible for the safety of workers under the laws. If the Contractor must work near overhead power lines, call (713) 228-7400 for the lines to be de-energized and/or moved at his expense.
- Caution: Underground gas facilities. Location of Entex facilities are shown in an approximate location only. Service lines are usually not shown. The Contractor shall contact the One-Call Lone Star Notification Center at (713) 223-4567 a minimum of 48 hours prior to construction to have utilities field located. The Contractor shall determine the exact location before commencing work and agrees to be fully responsible for any damages caused by his failure to exactly locate and preserve these underground facilities.
- Any damage to any of the existing pavement and/or utilities must be repaired immediately. The Contractor must notify the appropriate utility owner, who will make the repairs at the Contractor's expense.
- The Contractor, on behalf of the Owner, is to obtain all permits required by Fort Bend County and The City of Houston, Texas, prior to starting construction of utilities and/or culverts within County road rights—of—way. Guidelines set forth in the Texas "Manual on Uniform Traffic Control Devices", as currently amended, shall be observed. The Contractor shall be responsible for
- providing adequate flagmen, signing, striping and warning devices, etc., during construction — both day and night. . The work areas with direct public access shall be barricaded and illuminated during
- darkness and periods of inactivity . The Contractor shall be responsible for safeguarding and protecting all material and equipment stored on the job site. The Contractor shall be responsible for the storage of materials in a safe and workmanlike manner to prevent injuries, during and after working hours, until project completion and Owner acceptance.
- 2. The contractor shall be responsible for the shipping of all materials, the loading and unloading of all pipe, valves, hydrants, manholes and other accessories shall be in accordance with the manufacturer's recommended practices and shall at all times be performed with care to avoid any damage to the material. it shall be the contractor's responsibility to examine such material at the point of delivery and to reject all defective material, the defective material must be replaced with sound material
- 13. The Contractor shall be responsible for the shipping and storing of all materials. It shall be the Contractor's responsibility to examine such material at the point of delivery and to reject all defective material. Any defective material incorporated into the work shall be removed and replaced at the Contractor's expense. There shall be no payment made for stored material.
- All pipe and reinforcement steel shall be kept free of dirt and other debris. Any damage to the coating of the various materials must be repaired. 5. Contractor shall be responsible for maintaining adequate and positive drainage at
- all times during construction of proposed facilities. Natural ground adjacent to utility trench excavation to be grubbed prior to placement of excess trench material. (No separate payment.) 3. Access to all existing streets and driveways shall be maintained at all times.
- 17. The Contractor is required to follow all applicable OSHA rules and regulations. rench safety shall be done in accordance with OSHA 29 CFR Part 1926, as published in the Federal Register October 31,1989, and effective January 2, 1990.
- 18. Unless otherwise noted, placement of utilities in easements shall be governed by the standard 10' and 14' easements as adopted by the Utility Coordinating Committee for the Houston Metropolitan Area, as currently ammended or revised.
- 9. No connections shall be made to existing water lines or sanitary sewers until all proposed lines or sewers have been thoroughly cleaned, tested, and approved by the
- 0. All stations are centerline of street right—of—way unless otherwise noted. 1. All geotechnical reports for this project (if any) are available for reference at
- the office of the Engineer. . Surface restoration: At the end of all construction projects, the Contractor shall restore the existing facilities, i.e., the property, equal to or better than
- existing site conditions prior to construction. 23. Final acceptance of the utilities will not be given to the Contractor until they are inspected and approved by The FBC MUD 134B. Final acceptance of the paving
- not be given to the Contractor until it is inspected and approved by Fort Bend County. . See the Erosion Control Plan and Sediment Control Layout for additional environ—
- . These plans were prepared to meet or exceed City of Houston and Fort Bend County subdivision rules and regulations as currently amended.
- 6. Construction will be monitored by a registered Professional Engineer to insure compliance with the construction plans and specifications.
- . Approval by City of Houston will be deemed void if construction is not begun within one year of approval.
- 28. Contractor shall prepare a set of "Record" drawings showing any field changes made to the approved engineerng plans and submit to the Design Engineer for submission to City Engineer. 29. All utilities presented on these drawings are shown based on the best available
- information, contractor shall verify in the field the exact locations prior to commencing construction. contractor shall notify Texas one call at 713-223-4567 at least 48 hours before proceeding with any excavation. Manholes shall be City of Houston Standard Precast as per City of Houston Standard
- Drawings 02082-02 and 02082-03 or as currently amended. All manholes must be precast with the base slab reinforced with No. 4 re-bars (grade 40) at 12" on center, each wav. Brick manholes are not allowed. Contractor shall take necessary precautions to protect root systems of shrubs, plants and
- trees along the area of excavation. 2. All unsatisfactory and\or waste materials including vegetation, roots, concrete and debris shall be disposed of offsite by the contractor. no direct payment will be made, but shall
- be considered as incidental to the various bid proposal items. 33. All manholes are to be constructed to allow for a minimum of 1 foot of vertical
- adjustment. . All sewer trenches under or within one foot of proposed and/or future pavement or curb shall be backfilled with 1-1/2 sacks of cement per cubic yard cement-stabilized sand to a point one foot below pavement subgrade. the remaining backfill shall be made with compacted suitable material.
- Contractor shall remove all mud, dirt and debris deposited or dropped on existing pavement due to his construction activity daily. The use of well point systems, when required by trench conditions, shall be requested by
- the contractor and approved by the engineer. Contractor shall protect all trees adjacent to work area. no trees shall be removed without permission of owner.
- 8. Contractor shall provide 12" minimum clearance at storm sewer, sanitary sewer and water line crossings.
- All areas disturbed along side and back—of—lot easements or other unnecessary disturbances as a result of construction work shall be seeded and fertilized in accordance with seeding specifications (no separate pay).
- ). Rim elevations shown on the plans are approximate only. utility contractor shall adjust rim elevations to 3.5 inches above the finished grade at each manhole location after pavement contractor has completed final grading (no separate pay). sloped fill shall be added for storm water drainage away from the manhole rim.
- . Contractor shall be responsible for providing adequate flag men, signing, striping and warning devices, etc., during construction both day and night n accordance with the "manual on uniform traffic control devices."
- 2. Water, sanitary sewer, and drainage contractor shall at completion of his work fill and grade all utility easements (wet and dry) as well as low spots in lots for positive drainage, as directed by the owner. (no separate pay)
- 43. Utility contractor shall provide temporary silt barrier fence on all non-curb inlets which will remain in place after underground contract is complete. . Utility contractor shall provide silt barrier fence on all stage i curb inlets. (no separate pay)

- SANITARY SEWER CONSTRUCTION NOTES:
- Manholes shall be City of Houston Standard Precast as per City of Houston Standard Drawings as currently amended. All manholes must be precast with the base slab reinforced with No. 5 re-bars (grade 40) at 8" on center, each way. Brick manholes
- All sanitary sewer pipe and associated appurtenances shall conform to the following SINGLE WALL PVC
- Pipe: 6" through 12" PVC, SDR 26, ASTM D-3034 (PR !60)
  Fittings: 6" through 24" PVC, SDR 26, ASTM D-3034
  Gaskets: Elastomeric gaskets conforming to the requirements of ASTM F-477
  Joints: shall be push-on, rubber gasket joints of the integral bell and spigot type
  and ASTM D-3212 for 15" through 24" pipe. PVC Material: cell classification 12454B as defined in ASTM D-1784.
- DUCTILE IRON PIPE Ductile iron (D.I.P.) shall be used only when specifically called for in the plans and shall conform with AWWA C151 and AWWA C111 with bell and spigot push—on joints. D.I.P. shall have an interior coating of 40 mils polyethylene. Special thickness class 50 for pipes less than 30' deep and class 52 for pipes greater than 30' deep.
- DOUBLE WALL PVC 30" A2000 ASTM F949 Polyvinyl Chloride (PVC) sanitary sewer fittings shall be manufactured and tested in accordance with AASHTO Specification M304-91.Corrugated polyethylene pipe and fittings shall be manufactured and tested in accordance with AASHTO Specification M294-91, Type S.
- The structural design of thermoplastic pipes shall be in accordance with AASHTO Standdard Specifications for Highway Bridges: Section 18 titled: "Soil-Thermoplastic Pipe Interaction Systems". To ensure long term design strength properties, polyethylene pipe shall be manufactured from 335434C, 315412C or 334433C cell class material per ASTM D3350. PVC pipe shall be manufactured from 12454B, 12454C or 12364C cell class material per ASTM D1784
- All P.V.C. sanitary sewer pipes shall be installed per City of Houston Standard Drawing 02317-03 unless noted otherwise. No separate pay.
- All D.I.P. for the proposed pipes should be encased in 8 mil polyethylene tubing. Where polyethylene tubing cannot be used, coat outside of pipe with polyethylene. No separate pay.
- Sanitary sewers located under or within one-foot of proposed or future paving shall be backfilled with cement stabilized sand (1.5 sacks/cubic yard) to within one foot of pavement. Lab verification shall be submitted to City of Houston Engineer prior to pavement construction.
- All gravity sanitary sewers shall be air tested per specifications. Deflection tests shall be performed on all flexible and semi-rigid pipe, except service leads. The test shall be conducted after the final backfill has been in place at least 30 days. No pipe shall exceed a deflection of 5%. The test is to be run using a mandrel having an outside diameter equal to 95% of the average inside diameter of the pipe. The mandrel shall have a minimum of 9 runners, with the contact length of each runner equal to or greater than the pipe's nominal diameter. The test shall be performed without mechanical pulling devices.
- All sanitary sewer manhole rims shall to be set 3" to 5" above surrounding finished grade, with sloped fill added for storm water drainage away from the manhole rim and only pre-cast manholes are allowed in this project
- All sanitary sewer manholes shall have inflow protectors installed after final adjustment of manhole rims. (No Separate Pay.)
- Sanitary lines parallel to water lines shall be installed with at least a 9-foot clearance and in separate trenches. (A) If clearance is less than 2 feet:
  - ) Minimum 18-foot joint of AWWA C-900 DR18 pvc pipe centered at the water line; 1—foot absolute minimum clearance. (B) If clearance is between 2 to 9 feet:
  - 1) Use cement stabilized sand backfill for the wastewater line (minimum 2.5 sacks cement per cubic yard of sand) starting at a point 6 inches below the bottom of sanitary sewer to 6 inches above the top of sanitary sewer. Center one joint of sanitary sewer pipe about the water line.
- All sanitary service leads shall be 6" dia. min. and laid with a minimum grade of 0.70%. In wet sand construction, bedding and backfill for wet sand construction of sanitary
- sewer as per City of Houston Dwg. No. 02317-01. All manholes shall be tested for leakage in accordance with the Technical
- Specifications. Prior to sanitary sewer construction, the contractor shall contact the Department of Public works and Engineering at (713) 535-7675 or (713) 535-7880 and comply with all requirements for the issuance of necessary
- 15. When making a connection to an existing sanitary sewer manhole the contractor shall plug down stream end of the proposed sanitary sewer. The sewer shall remain plugged until final acceptance by City of Houston.
- Where a new sanitary pipe crosses a new, pressure rated waterline, one segment of the sanitary pipe shall be centered over the water line such that the joints of the sanitary pipe are equidistant and at least nine feet horizontally from the centerline of the water line he sanitary sewer pipe in this instance shall be constructed of AWWA C-900 DR18 pvc. Where AWWA C-900 pvc pipe will be connected to SDR26. ASTM 3034 sanitary sewer pipe. The contractor shall provide a suitable adapter to make the proper connection.
- Sanitary sewer bedding at waterline crossings must contain cement stabilized sand backfill (2.5 sack cement per cubic yard mix), 9—feet on either side of the waterline crossing.

#### STORM DRAINAGE CONSTRUCTION NOTES:

- All storm sewers shall be reinforced concrete pipe, ASTM C-76, Class III) and shall be installed, bedded, and backfilled in accordance with the City of Houston drawing Nos. 02317-02, 02317-03, 02317-05, 02317-06, and 02317-07(Oct. 2002) as applicable unless otherwise shown on the drawings.
- All storm sewer constructed in side lot easement shall be R.C.P. (C-76. Class III) and shall be bedded in accordance with the City of Houston drawing Nos 02317-02, 02317-03, 02317-05, 02317-06 and 02317-07 as applicable
- All sewer under proposed or future pavement and to a point (1) foot back of all proposed or future curbs shall be backfilled with 1—1/12 sack cement per c.y. stabilized sand to within one (1) foot of subgrade. The remaining depth of trench shall be backfilled with suitable earth material.
- All trench backfills shall be in 8" lifts, with tests taken at 100 foot intervals on each lift, and mechanically compacted to a density of not less than 95% of the maximum dry density as determined by the standard proctor compaction test (ASTM D-698/AASHTO T99).
- Circular and elliptical reinforced concrete pipe shall be installed using rubber gasket joints conforming to ASTM C443 and ASTM C877 respectively.
- All storm sewer pipes and inlet leads shall be 24-inch and larger R.C.P. (C-76, Class III) unless otherwise noted on plans.
- All proposed pipe stub—outs from manholes and inlets are to be plugged with 8" brick walls unless otherwise noted.
- Contractor shall provide 12" minimum clearance at storm sewer and
- Adjust Manhole covers to grade conforming to requirements of section 02086—adjusting manholes, inlets and valve boxes to grade.(No separate pay)
- The contractor shall be responsible for protecting, maintaining, and restoring any back slope drainage system disturbed as a result of his/her
- 11. All ditches shall be regraded to proposed elevations to insure proper drainage. All outfalls shall be properly backfilled and compacted. All disturbed area shall be regraded, seeded, and fertilized.
- 12. All driveways shall be located to avoid existing curb inlet structures.

#### **PAVING CONSTRUCTION NOTES:**

- All paving shall be constructed in accordance with City of Houston and
- Fort Bend County requirements as currently amended. All temporary and permanent signage must comply with the "Texas Manual on Uniform Traffic Control Devices" as currently amended. All R1—1 stop signs
- shall be 30"X30" with diamond grade sheeting. All road widths, curb radii, and curb alignment shown indicate back of curb. T.C. indicates top of curb. T.P. indicates top of pavement elevations.
- All intersection curb return radii shall be 25 feet and all cul-de-sac return radii shall be 35 feet unless noted otherwise.
- Transverse expansion joints shall be installed at each curb return and at a maximum spacing of 60 feet
- When a 6" thick concrete roadway intersects with a 8" thick concrete roadway, 8"

thick concrete shall be constructed for the entire intersection, to the ends of all

- The paving Contractor shall protect all utilities and shall repair or replace at his expense any facilities damaged during paving or grading operations. All manholes and valves within the pavement area shall be adjusted to finished grade by
- 8. The paving Contractor shall clear and strip all lots and street rights—of—way of all organics (vegetation, roots 2" and greater, organic soil layer) at no separate pay. The vegetation, roots, etc. must be properly disposed of offsite. The organic soil (top soil) must be stockpiled during construction and used as top dressing to provide the minimum lot elevations shown on the Grading Plan.
- Areas to be filled shall be scarified and compacted to at least 95% of maximum density per ASTM D-698, to a depth of 8" prior to fill placement. Fill material shall be placed in maximum 8" thick lifts (measured loose) and compacted to at least 95% of maximum density per ASTM D-698. Moisture content shall be within +3% of optimum unless otherwise directed by owner's testing lab or the Engineer. Fill shall be clean earth, sand, or a combination, and be free from trash, vegetation and large stones.
- The 8-inch subgrade is to be scarified, lime stabilized (amount as determined by lab test) and compacted to 95% standard proctor density per ASTM D698.
- Necessary testing of subgrade and concrete pavement to prove that these items meet requirements shall be done by a commercial testing laboratory approved by the
- Reinforcement steel for pavement shall be supported with plastic chairs at 24-inch maximum spacing, each way.
- A continuous longitudinal reinforcing bar shall be used in the curbs. Street name signs (for all streets) shall be located atop each stop sign at all intersections. Refer to recorded plat for correct spelling of street names. Street Names shall be upper and lower case letters w/diamond grade sheeting

Concrete design mix and test data shall be submitted to Fort Bend County

- Engineer for approval. Double reflectorized blue traffic markers shall be placed 6 inches offset of the centerline at all flushing valve locations by the paving contractor. Flushing valves located at intersections shall have a button placed on each
- ADA Handicap Ramps shall be installed with street paving at all intersections and comply to current A.D.A. regulations. Specification PED-12A
- The only authority permitted to add water to a concrete truck must come from the testing company or a representative of LJA Engineering Inc.
- Concrete curb shall be 6" curb unless otherwise noted. See detail sheet title "PAVING DETAILS")
- Paving shall be in accordance with FORT BEND COUNTY "Rules. Regulations and Requirements Relating to the Approval and Acceptance of Improvements in
- Subdivisions or Resubdivisions" and or amendments of same. Contractor shall notify Steve Evans (281-633-7514), Fort Bend County Engineer
- 48 hours prior to construction and 24 hours prior to paving operation including sub-grade preparation, lime stabilization and placement of concrete pavement. All pavement shall be 5 1/2 sack - 3500 psi; concrete 28 days.

#### PERMIT NOTES

street. No separate pay.

1. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY REGULATION OF CITY OF HOUSTON AND FORT BEND COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT PRIOR TO STARTING CONSTRUCTION. 2. OWNER TO OBTAIN ALL PERMITS REQUIRED BY CITY OF HOUSTON AND FORT BEND COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITY AND OR CULVERTS WITHIN FORT BEND COUNTY

#### ROAD RIGHTS-OF-WAY. CONTACT JOHNNY ORTEGA 281-633-7502 CAUTION: UNDERGROUND GAS FACILITIES

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY. INTRASTATE PIPELINE LLC. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. CENTERPOINT SIGNATURES ON THESE PLANS ONLY INDICATES THAT ITS FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-(800) 545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE

- MAIN AND SERVICE LINES FIELD LOCATED. - WHEN CENTERPOINT ENERGY PIPELINE MARKINGS ARE NOT VISIBLE, CALL (713) 945-8036 OR 713-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS. - WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF
- CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. - WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.

TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

- FOR EMERGENCIES REGARDING GAS LINES CALL (713) 658-3552 OR (713) 207-4200 THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE

#### WARNING: OVERHEAD ELECTRICAL FACILITIES OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO

BEGINNING CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE FORBIDS ACTIVITES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY: - ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLATE LINES; AND

- OPERATING A CRANE. DERRICK. POWER SHOVEL. DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO

ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207-2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6248 OR (713) 207-5769.

#### CAUTION: AT&T FACILITIES

THE LOCATION OF SOUTHWESTERN BELL TELEPHONE COMPANY UTILITY ARE NO LONGER PROVIDED BY AT&T AND ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THESE UTILITIES PRIOR TO COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY ITS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES. TO HAVE THESE FACILITIES LOCATED CALL THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567, OR TOLL FREE AT 1-(800) 669-8344 AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION.

WARNING: UNDERGROUND ELECTRICAL FACILITIES UNDERGROUND ELECTRICAL FACILITIES EXIST IN THE AREA OF THIS PROJECT. DO NOT BEGIN CONSTRUCTION UNTIL THESE FACILITIES HAVE BEEN LOCATED AND STAKED. TO HAVE THESE UNDERGROUND FACILITIES STAKED CALL THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567, OR TOLL FREE AT 1-(800) 669-8344, AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION.

#### TRAFFIC NOTES

- CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD, MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.
- 2. LANE CLOSURE PERMITS ARE TO BE OBTAINED WHEN REQUIRED (SEE NOTE 7) a. NO LANES SHALL BE CLOSED DURING THE HOURS OF 5:30 AM TO 7:00 PM MONDAY THRU FRIDAY IN DOWNTOWN/MIDTOWN AREA. b. NO LANES SHALL BE CLOSED DURING THE HOURS OF 7:00 AM TO 9:00 AM AND 4:00 PM TO 6:00 PM MONDAY THRU FRIDAY. c. NO LANES SHALL BE CLOSED IN RESIDENTIAL AREA FROM 7:00 PM TO 7:00 AM.
- CONTRACTOR SHALL COVER EXCAVATIONS WITH STEEL PLATES, ANCHORED PROPERLY, DURING NON-WORKING HOURS AND OPEN LANES FOR TRAFFIC FLOWS.
- IF THE CONTRACTOR DESIRES TO BLOCK A LANE FOR WHICH NO "TRAFFIC CONTROL PLANS" WERE SUBMITTED. (S)HE SHALL SUBMIT REPRODUCIBLE MYLARS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS TO PLAN REVIEW SECTION WITH THE ENTIRE APPROVED SET OF DRAWINGS FOR APPROVAL TEN WORKING DAYS PRIOR TO CONSTRUCTION.
- CONSTRUCTION THAN WHAT IS OUTLINED IN THE CONTRACT DRAWINGS, (S)HE SHALL BE RESPONSIBLE TO SUBMIT AN ALTERNATE SET OF REPRODUCIBLE MYLARS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS WITH THE ENTIRE APPROVED SET OF DRAWINGS TO PLAN REVIEW SECTION FOR APPROVAL TEN WORKING DAYS PRIOR TO IMPLEMENTATION.

IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLANS" DURING

APPROVED COPIED OF "TRAFFIC CONTROL PLANS" AND LANE/SIDEWALK CLOSURE PERMITS SHALL BE AVAILABLE FOR INSPECTION AT JOB SITE ALL TIMES. THE REQUEST MUST BE MADE AT LEAST THREE DAYS PRIOR TO THE DATE FOR WHICH THE CLOSURE

IS SOUGHT. CALL 281-633-7502 FOR AN APPLICATION.

#### SPECIAL TRENCH BACKFILL NOTE:

All trench backfill for utilities shall be compacted to at least 95% of maximum density per ASTM D-698. Moisture content shall be within + 3% of optimum. Densities shall be taken at approximate 100-foot intervals for each lift, or as recommended by the testing lab.or as otherwise directed by the Engineer. The testing lab shall be paid by the owner except retests required due to the failure of the first test shall be paid by the Contractor. Lifts shall be 8-inch maximum, measured loose. All trench backfill shall be considered subsidiary to the pipe.

#### WATER LINE CONSTRUCTION NOTES:

- PRIOR TO WATER MAIN ADJUSTMENT, THE INSTALLATION OF WATER METERS AND LEADS OR UNMETERED SPRINKLER LINES, THE CONTRACTOR SHALL CONTACT WATER TAPS AND METERS SECTION AT 713-535-7675 FOR DETAILS OF PERMITS AND BONDS.
- PRIOR TO WATER MAIN CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF PUBLIC WORKS AND ENGINEERING AT 713-837-7024 AND COMPLY WITH ALL REQUIREMENTS NECESSARY FOR THE ISSUANCE OF A WORK ORDER FOR THE WATER MAIN CONSTRUCTION.
- Unless otherwise noted, all water lines 12" and smaller shall have a minimum of 4' of cover, and water lines 16" and larger shall have a minimum of 5' of cover. All waterlines, after installation, shall be thoroughly disinfected according to AWWA Specification C-651 and then flushed before being placed into service. Water samples will be collected for bacteriologic analysis, in accordance with 30 TAC §290.44(f)(3), and must meet the Texas Department of Health and City of Houston requirements prior to placing the lines into service.
- All water lines are to be hydrostatically tested by the Contractor at 125 psi in accordance with City of Houston. Pipe material (if not a steel section) shall be either PVC AWWA C-900 or mortar—lined ductile iron AWWA C-151 and AWWA C-111, with bell and spigot push—on joints. PVC shall be DR 18, Class 235. DIP 6" and larger shall be standard Class 350.
- All water mains under street pavement, if not steel section, shall be PVC pipe. Concrete thrust blocks shall be provided at all underground tees, bends and laterals. They shall be built as per the details provided to prevent pipe movement.
- All above ground ductile iron pipe connections shall be flanged. Underground ductile iron pipe connections shall be boltless and push—on after the first flanged fitting below grade unless noted otherwise on the plans. All flanges below grade shall have stainless steel bolts and nuts.
- All water valves shall open clockwise. All water valves shall be supplied and installed in accordance with the latest edition of AWWA C-500 and shall be of the resilient seat type.
- All below grade valves shall be gasketed, hub—end gate valves with a cast iron box except where flanges are called out on the plans. All flanges below grade shall be insulated. All water lines shall be encased in bank sand to at least 6" above the pipe. Cost
- of bank sand to be included in unit price of waterline. Water line trenches under pavement or within one foot of proposed curbs shall be backfilled with cement stabilized sand (1-1/2 sack/cubic yard) up to within one foot of pavement. Cost of backfill shall not be paid directly but shall be included in the unit price of water line
- Maintain minimum 9—foot horizontal clearance between outside of sanitary sewer manhole and water line. Water lines parallel to sanitary lines shall be installed with at least a 9-foot
- clearance and in separate trenches. Center of fire hydrant to be located 3'-0" from back of curb with center line of steamer nozzle 22-inches above finished grade, unless otherwise shown.
- Water line shall be constructed such that all crosses and tees will not be located under proposed or future paving. Utility contractor to turn fire hydrants and make all final adjustments after
- completion of paving. No separate pay. Reclaimed water line pipe material shall be PVC AWWA C-900 with bell and spigot push-on joints. PVC shall be DR18, Class 235 ("Purple Pipe").
- Materials used must comply with the current Safe Drinking Water Act which states the maximum allowable lead content of pipes, pipe fittings, plumbing fittings and fixtures to be 0.25 percent.

### FORT BEND COUNTY CONSTRUCTION - GENERAL NOTES

- FORT BEND COUNTY MUST BE INVITED TO THE PRE-CONSTRUCTION MEETING. CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND 48 HOUR NOTICE TO ANY CONSTRUCTION ACTIVITY WITHIN THE LIMITS OF THE PAVING AT CONSTRUCTION@FORTBENDCOUNTYTX.GOV
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FROM FORT BEND COUNTY PRIOR TO COMMENCING CONSTRUCTION OF ANY IMPROVEMENTS WITHIN COUNTY ROAD RIGHT OF WAYS.
- ALL PAVING IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FORT BEND COUNTY RULES, REGULATIONS AND REQUIREMENTS RELATING TO THE APPROVAL AND ACCEPTANCE OF IMPROVEMENTS IN SUBDIVISIONS AS CURRENTLY AMENDED.
- ALL ROAD WIDTHS, CURB RADII AND CURB ALIGNMENT SHOWN INDICATES BACK OF CURB A CONTINUOUS LONGITUDINAL REINFORCING BAR SHALL BE USED IN THE CURBS. ALL CONCRETE PAVEMENT SHALL BE 5 1/2 SACK CEMENT WITH A MINIMUM COMPRESSIVE
- STRENGTH OF 3500 PSI AT 28 DAYS, TRANSVERSE EXPANSION JOINT SHALL BE INSTALLED AT EACH CURB RETURN AND AT A MAXIUMUM SPACING OF 60 FEET. ALL WEATHER ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED
- 4"X12" REINFORCED CONCRETE CURB SHALL BE PLACED IN FRONT OF SINGLE FAMILY LOTS ONLY. ALL OTHER AREAS SHALL BE 6" REINFORCED CONCRETE CURB.
- AT ALL INTERSECTION LOCATIONS. TYPE 7 RAMPS SHALL BE PLACE IN ACCORDANCE WITH TXDOT PED-12A STANDARD DETAIL SHEET, A.D.A. - HANDICAP RAMPS SHALL BE INSTALLED WITH STREET PAVING AT ALL INTERSECTIONS AND COMPLY WITH CURRENT A.D.A. REGULATIONS. CURB HEADERS ARE REQUIRED AT CURB CONNECTIONS TO HANDICAP RAMPS, WITH NO
- CONSTRUCTION JOINT WITHIN 5' OF RAMPS. ALL INTERSECTIONS UTILIZING TRAFFIC CONTROL MEASURES SHALL HAVE A.D.A. WHEEL CHAIR GUIDELINES ARE SET FORTH IN THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES",

ALL R1-1 STOP SIGNS SHALL BE 30"X30" WITH DIAMOND GRADE SHEETING, STREET NAME

AS CURRENTLY AMENDED, SHALL BE OBSERVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR

- PROVIDING ADEQUATE FLAGMEN, SIGNING, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION - BOTH DAY AND NIGHT.
- SIGNS SHALL BE UPPER AND LOWER CASE LETTERS WITH DIAMOND GRADE SHEETING. STREET NAME SIGNAGE SHALL BE ON A 9" HIGH SIGN FLAT BLADE W/REFLECTIVE GREEN BACKGROUND. STREET NAMES SHALL BE UPPER AND LOWERCASE LETTERING WITH UPPERCASE LETTERS OF 6" MINIMUM AND LOWERCASE LETTERS OF 4.5" MINIMUM. THE LETTERS SHALL BE
- 16. A BLUE DOUBLE RELECTORIZED BUTTON SHALL BE PLACED AT ALL FIRE HYDRANT LOCATONS. THE BUTTON SHALL BE PLACED 12 INCHES OFF OF THE CENTERLINE OF THE STREET ON THE SAME SIDE AS THE HYDRANT.

REFLECTIVE WHITE. STREET NAME SIGNS SHALL BE MOUNTED ON STOP SIGN POST.

NOTE: FORT BEND COUNTY NOTES SUPERSEDE ANY CONFLICTING NOTES.

RECORD DRAWING CERTIFY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS FORT BEND COUNTY ENGINEERING DEPARTMENT APPROVED: \_ Jean ! DEVELOPMENT COORDINATOR REVISION CPC 101 FILE NO. C.O.H. LOG NO. 16-1149

A-1212 - BRASS DISK, STAMPED A-1212 1973, SET IN THE TOP OF A CONCRETE HEADWALL ON THE WEST BOUND LANES OF HWY 90A, APPROX. 4.1 MILES WEST ALONG HWY 90A FROM THE JUNCTION OF HWY 6, IN SUGARLAND, TEXAS. THE DISK IS SET 2.0 FEET EAST OF THE WEST END, OF THE NORTH CONCRETE HEADWALL, AND 27.0 FEET NORTH OF THE CENTERLINE OF THE WESTBOUND LANES, AND 1/2FOOT LOWER THAN THE ROAD.

ELEV. = 78.65 FEET (NGVD-29) 1973 ADJ.

%" IRON ROD W/ LJA CAP LOCATED APPROX. 50.6 FEET SOUTHWEST OF THE NORTHEAST CORNER OF THE ALIANA PROPERTY AT THE INTERSECTION OF MADDEN ROAD AND FM 1464.

CONTRACTOR TO COORDINATE ALL IRRIGATION SHUT OFF

AND REPAIRS WITH ROWE ALFARO (281) 808-6229

 $ELEV. = 93.19 \; FEET \; 1973 \; ADJ.$ 

PLAT NAME: WEST AIRPORT BOULEVARD

F.B.C.M.U.D. NO. 134A

14 INCH FORCEMAIN EXTENSION

GENERAL NOTES

LJA Engineering, Inc. Phone 713.953.5200 2929 Briarpark Drive Fax 713.953.5026 Suite 600 FRN - F-1386 Houston, Texas 77042 JA PROJECT NO.: 1968-1051 DRAWN BY: esigned by: **JULY 2017** NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES DEPARTMENT OF PUBLIC WORKS AND ENGINEERING and Aula 7-7-17 FOR CITY OF HOUSTON USE ONLY

> DRAWING SCALE CALE: NONE

NO.  $\angle$  OF

SHEET (

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JASON M. KELLY

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58544 CITY DRAWING NUME YOUSTON TEXA

