



**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

- ☒ **Right of Way Permit**
☐ **Commercial Driveway Permit**

Permit No: 2018-20526

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

(1) COMPLETE APPLICATION FORM:

- ☒ a. Name of road, street, and/or drainage ditch affected.
☒ b. Vicinity map showing course of directions
☒ c. Plans and specifications

(2) BOND:

- ☐ County Attorney, approval when applicable.
- ☐ Perpetual bond currently posted. Bond No: _____ Amount: _____
- ☒ Performance bond submitted. Bond No: [REDACTED] Amount: \$19,055.00
- ☐ Cashier's Check Check No: _____ Amount: _____

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Drainage District Approval

Date

We have reviewed this project and agree it meets minimum requirements.



Permit Administrator

5/14/2018

Date



REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT

**Fort Bend County
Engineering Department**

301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500

Permits@fortbendcountytexas.gov

X

Right of Way Permit

11

Commercial Driveway Permit

Permit No: 2018-20526

Applicant: Harris Construction Company, LTD.

Job Location Site: WESTMOOR DRIVE , RICHMOND, TX 77407

Bond No. [REDACTED] **Date of Bond:** 4/30/2018 **Amount:** \$19,055.00

The above applicant came to make use of certain Fort Bend County property subject to, "The Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
 - a. 48 hours in advance of construction start up, and
 - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru [MyGovernmentOnline.org](https://mygovernmentonline.org) portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 22nd day of May, 2018, Upon Motion of Commissioner _____, seconded by Commissioner _____, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Signature

Presented to Commissioners Court and approved.

By:

County Engineer

Date Recorded _____ Comm. Court No. _____

Clerk of Commissioners Court

N/A

By:

Drainage District Engineer/Manager

By:

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 [REDACTED]

THE STATE OF TEXAS §
COUNTY OF FORT BEND §

KNOW ALL MEN BY THESE PRESENTS:

THAT WE, Harris Construction Company, Ltd. whose (address, phone) is 6602 Guhn Rd., Houston, TX 77040/ 713-690-0791 Texas, hereinafter called the Principal, and Liberty Mutual Insurance Company, a Corporation existing under and by virtue of the laws of the state of Massachusetts and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at (name/address/phone) Allen Knepper / 10713 W. Sam Houston Parkway N., Suite 650, Houston, Texas 77064/ 713-744-1756 whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Massachusetts and whose address is 175 Berkeley St. Boston, MA 02117, hereinafter called the Surety, and held and firmly bound unto , Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, in the full sum of Ten Nineteen Thousand Fifty Five and No/00 Dollars (\$ 19,055.00) current, lawful money of the United States of America, to be paid to said Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us, our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and severally, by these presents.

THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the above bounden principal contemplates laying, constructing, maintaining and/or repairing one or more cables, conduits, and/or pole lines in, under, across and/or along roads, streets and highways, commercial driveway and median openings or modifications in the County of Fort Bend, and the State of Texas, under the jurisdiction of the Commissioners' Court of Fort Bend County, Texas, pursuant to the Commissioners' Court order adopted on the 1st day of December, A.D. 1980, recorded in Volume 13, of the Commissioners' Court Minutes of Fort Bend County, Texas, regulating same, which Commissioners' Court order is hereby referred to and made a part hereof for all purposes as though fully set out herein;

AND WHEREAS, the principal desires to provide Fort Bend County with a performance bond covering all such cable, conduit and/or pole line activity, commercial driveway and median openings or modifications;

NOW, THEREFORE, if the above bounden principal shall faithfully perform all its cable, conduit and/or pole line activity (including, but not limited to the laying, construction, maintenance and/or repair of cables, conduits and/or pole lines) in, under, across and/or along roads, streets and highways, commercial driveway and median openings or modifications in the County of Fort Bend and State of Texas, under the jurisdiction of the Commissioners Court of Fort Bend County, Texas, pursuant to and in accordance with minimum requirements and conditions of the above mentioned Commissioners' Court order set forth and specified to be by said principal done and performed, at the time and in the manner therein specified, and shall pay over and make good and reimburse Fort Bend County, all loss and damages which Fort Bend County may sustain by reason of any failure or default on the part of said principal, then this obligation shall be null and void, otherwise to remain in full force and effect.

This bond is payable at the County Courthouse in the County of Fort Bend and State of Texas.

It is understood that at any time Fort Bend County deems itself insecure under this bond, it may require further and/or additional bonds of the principal.

EXECUTED this 30th day of April, 2018.

Harris Construction Company, Ltd.
PRINCIPAL

It's General Partner LHCC LLC

BY

Larry A. Harris, President

Liberty Mutual Insurance Company
SURETY

BY Michelle Ulery, Attorney in Fact

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 7221346

American Fire and Casualty Company
The Ohio Casualty Insurance Company

Liberty Mutual Insurance Company
West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, C.A. McClure; Kelly J. Brooks; Kenneth L. Meyer; Michelle Ulery

all of the city of CYPRESS, state of TX each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 5th day of January, 2016.



American Fire and Casualty Company
The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
West American Insurance Company

By: David M. Carey
David M. Carey, Assistant Secretary

STATE OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 5th day of January, 2016, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Plymouth Twp., Montgomery County
My Commission Expires March 28, 2017
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Gregory W. Davenport, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 30th day of April, 2018.



By: Gregory W. Davenport
Gregory W. Davenport, Assistant Secretary



TEXAS IMPORTANT NOTICE

To obtain information or make a complaint:

You may call toll-free for information or to make a complaint at
1-877-751-2640

You may also write to:

2200 Renaissance Blvd., Ste. 400
King of Prussia, PA 19406-2755

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

You may write the Texas Department of Insurance Consumer Protection (111-1A)
P. O. Box 149091
Austin, TX 78714-9091
FAX: (512) 490-1007
Web: <http://www.tdi.texas.gov>
E-mail: ConsumerProtection@tdi.texas.gov

PREMIUM OR CLAIM DISPUTES:

Should you have a dispute concerning your premium or about a claim you should first contact the agent or call 1-800-843-6446. If the dispute is not resolved, you may contact the Texas Department of Insurance.

ATTACH THIS NOTICE TO YOUR POLICY:

This notice is for information only and does not become a part or condition of the attached document.

TEXAS AVISO IMPORTANTE

Para obtener informacion o para someter una queja:

Usted puede llamar al numero de telefono gratis para informacion o para someter una queja al
1-877-751-2640

Usted tambien puede escribir a:

2200 Renaissance Blvd., Ste. 400
King of Prussia, PA 19406-2755

Puede comunicarse con el Departamento de Seguros de Texas para obtener informacion acerca de companias, coberturas, derechos o quejas al
1-800-252-3439

Puede escribir al Departamento de Seguros de Texas Consumer Protection (111-1A)
P. O. Box 149091
Austin, TX 78714-9091
FAX # (512) 490-1007
Web: <http://www.tdi.texas.gov>
E-mail: ConsumerProtection@tdi.texas.gov

DISPUTAS SOBRE PRIMAS O RECLAMOS:

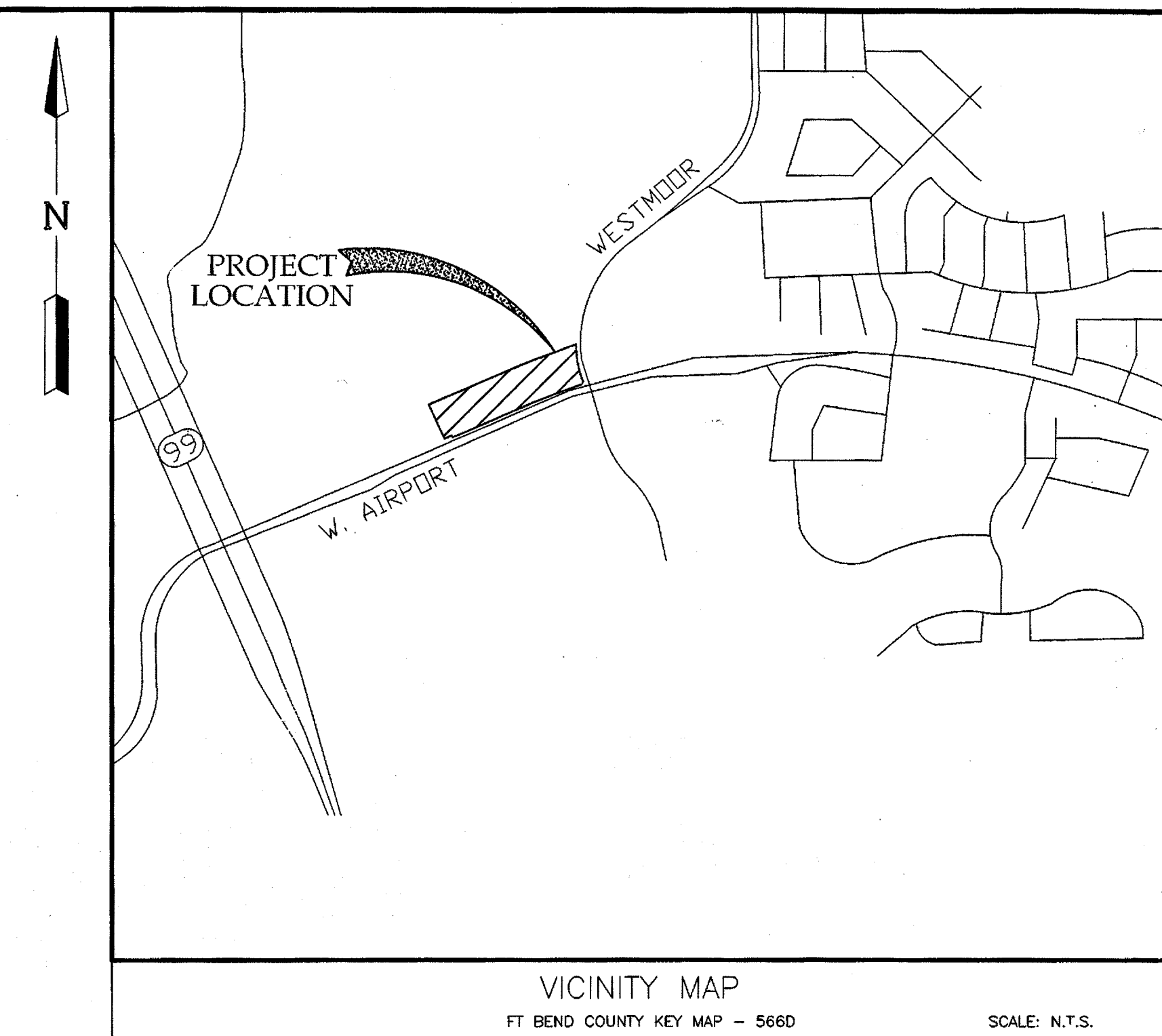
Si tiene una disputa concerniente a su prima o a un reclamo, debe comunicarse con el agente o primero. Si no se resuelve la disputa, puede entonces comunicarse con el departamento (TDI)

UNA ESTE AVISO A SU POLIZA:

Este aviso es solo para proposito de informacion y no se convierte en parte o condicion del documento adjunto.

LEFT TURN LANE MEDIAN OPENING & 8" WATER LINE TO SERVE FORT BEND COUNTY MUD 134B

SHOPS IN ALIANA
WEST AIRPORT BLVD
FORT BEND COUNTY, TEXAS 77407



JOB NO. 2423-1701

NOTES:
1. THESE PLANS WERE PREPARED TO MEET OR EXCEED FORT BEND COUNTY RULES AND REGULATIONS (AS APPLICABLE) AS CURRENTLY AMENDED.

Sheet List Table	
Sheet Number	Sheet Title
01	COVER SHEET
02	GENERAL NOTES
03	F.B.C.E. NOTES AND DETAILS
04	PLAT
05	OVERALL SITE PLAN
06	LEFT TURN LANE AND MEDIAN OPENING STA: 14+00.39' TO STA: 19+50.00'
07	LEFT TURN LANE AND MEDIAN OPENING STA: 19+50.00' TO STA: 24+00.00'
08	WATER LINE A STA: 00+00.00' TO STA: 05+50.78'
09	WATER LINE A STA: 05+50.78' TO STA: 10+00.00'
10	WATER LINE A STA: 10+00.00' TO END
11	WATER LINE B
12	EROSION CONTROL PLAN
13	TRAFFIC CONTROL PLAN
14	EROSION CONTROL DETAILS
15	CONSTRUCTION DETAILS
16	CONSTRUCTION DETAILS 2
16A	CONSTRUCTION DETAILS 3

DATE : OCTOBER, 2017

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

FIRM
FLOOD INSURANCE MAP
PANEL 140 OF 575
MAP# 48157C0140L

CONTRACTOR SHALL NOTIFY THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING, OFFICE OF CITY ENGINEER, 48 HOURS BEFORE STARTING WORK ON THIS PROJECT. PHONE NUMBER 832-394-9098

RECORD DRAWING

I 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

BY _____ DATE _____

TITLE _____

RECORD DRAWING

I 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

BY _____ DATE _____

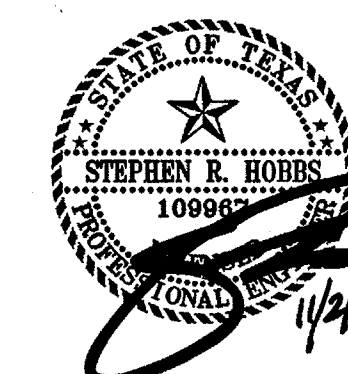
TITLE _____

FORT BEND COUNTY ENGINEERING DEPARTMENT
APPROVAL IS IMPLIED FOR IMPROVEMENTS WITHIN FORT BEND COUNTY RIGHTS-OF-WAY ONLY. UTILITY LINES APPROVED AS TO LOCATION ONLY. AUTHORIZATION IS VALID FOR ONE YEAR ONLY.

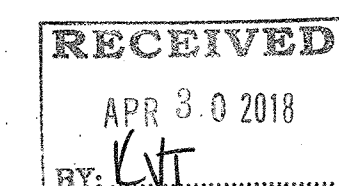
APPROVED: Richard Stolleis, P.E., P.O.E.
FOR RICHARD STOLLEIS - COUNTY ENGINEER

DATE: 12/21/17

CLD 12/14/17
for Development Coordinator



ILMS NO. 17104902
LOG NO. 17-1654



APPROVED

3/4/18 NFDWA Revision 5-11/18

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

LJA LJA Engineering, Inc.	
SURVEYED BY: FB NO.:	
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
WATER	STREET & BRIDGE
STORM	TRAFFIC
FACILITIES	STORM WATER QUALITY
CITY ENGINEER 3/14/18	FOR CITY OF HOUSTON USE ONLY CITY ENGINEER 11/3/17
DIRECTOR OF PUBLIC WORKS AND ENGINEERING 3/15/18	59275
SHEET No: 1 OF 16	

DEVELOPER:
HUNINGTON PROPERTIES
109 N. POST OAK LANE SUITE 550
HOUSTON, TX 77024
713-623-6944

GENERAL CONSTRUCTION NOTES:

- 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, and 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 January 2011. 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 facilities, including but not limited to power, water lines, wastewater collection systems and storm sewers during construction. All damages 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 construction:
City of Houston Engineer, Dept. of Public Works & Engineering (832) 395-2511
City of Houston Engineer (713) 316-3561
Fort Bend County Engineering Dept. Email: CONSTRUCTION@FORTBENDCOUNTYTX.GOV
One-Call Houston Metropolitan Area: (713) 223-4567
NOTE: A verification number is required from the City of Houston.
Airtel: (281) 490-9432
(S.B.C., Reliant, Warner Cable, etc.) (800) 245-4545
Notification to City of Houston Engineer shall be followed up with a letter, a copy of which shall be sent to the Engineer.
- 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 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. Contractors and Owners, being legally responsible for the safety of workers under the law, 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 City of Houston 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.
- 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.
- 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.
- 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.)
- Access to all existing streets and driveways shall be maintained at all times.
- The Contractor is required to follow all applicable OSHA rules and regulations. Trench 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.
- 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 amended or revised.
- 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 Engineer.
- All stations are centerline of street right-of-way unless otherwise noted.
- 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 conditions prior to construction.
- Final acceptance of the utilities will not be given to the Contractor until they are inspected and approved by the FBC MUD 134A. Final acceptance of the paving will 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 environmental notes and details.
- These plans were prepared to meet or exceed City of Houston and Fort Bend County subdivision rules and regulations as currently amended.
- 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.
- Contractor shall prepare a set of "Record" drawings showing any field changes made to the approved engineering plans and submit to the Design Engineer for submission to City Engineer.
- 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 way. Brick manholes are not allowed.
- Contractor shall take necessary precautions to protect root systems of shrubs, plants and trees along the area of excavation.
- 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.
- 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 subgrade material.
- Contractor shall remove all mud, dirt and debris deposited or dropped on existing pavement due to heavy duty.
- The use of well point systems, when required by trench conditions, shall be requested by the contractor and approved by the engineer.
- Contractor shall not allow access adjacent to work area. No trees shall be removed without permission of owner.
- 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 construction has been 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 in accordance with the "Manual on Uniform Traffic Control Devices".
- 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 City Engineer. (No separate pay)
- Utility contractor shall provide temporary silt barrier fence on all non-curb inlets which will remain in place after underground construction is complete.
- Utility contractor shall provide silt barrier fence on all stage 1 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 are not allowed.
- All sanitary sewer pipe and associated appurtenances shall conform to the following requirements:
SINGLE WALL PVC
Pipe: 6" through 12" PVC, SDR 26, ASTM D-3034 (PR 160)
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-3034 for 15" through 24" pipe.
PVC Material: cell classification 124548 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 C-151 and AWWA C-111 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 Standard 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 3354344, 315412C or 334433C cell class material per ASTM D3350. PVC pipe shall be manufactured from 124548, 12454C or 12944C 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 lines. 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 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:
1) 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 above the water line.
2) 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 above 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) 535-7680 and comply with all requirements for the issuance of non-permits/work orders.
- 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 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. The 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 1-1/2 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 not less than 95%.
- The maximum dry density as determined by the standard proctor compaction test (ASTM D-698/AASHTO 199).
- 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 water line crossings.
- 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 work.
- 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.
- 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 curb returns.
- 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 the paving Contractor.
- The paving Contractor shall clear and strip all soils 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 granular, sand, or a combination, and be free from trash, vegetation and large stones.
- The 6-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 Engineer.
- 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 of all flushing valve locations by the paving contractor.
- Flushing valves located at intersections shall have a button placed on each street. No separate pay.
- 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 CONSTRUCTION@FORTBENDCOUNTYTX.GOV, 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 - 4500 psi - concrete 28 days.

PERMIT NOTES

- 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.
- 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: OVERHEAD 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 ACCOMPISHED 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.
- 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 TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

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 ACTIVITIES 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 VOLTAGE 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 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.

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 approximately 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.

WATERLINE 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 §280.44(f)(3), and must meet the Texas Department of Health and City of Houston requirements prior to placing the lines into service.
- All waterlines 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. All PVC shall be DR 15 or less. DIP 6" and larger shall be standard Class 350. DIP 4" is not allowed.
- 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 from moving.
- 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 valves shall open clockwise. All main 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-and-gate valves with a cast iron box, except where larger are called out on the plans.
- All flanges below grade shall be insulated.
- All waterlines 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.
- Waterline 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 waterline.
- Maintain minimum 9-foot horizontal clearance between outside of sanitary sewer manhole and waterline.
- 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 3'-0" from back of curb with center line of steamer nozzle 22-inches above finished grade, unless otherwise shown.
- Waterline shall be constructed such that all crosses and tees will not be located under pavements or future paving.
- Utility contractor to turn the hydrants and make all final adjustments after completion of paving. No separate pay.
- Reclaimed waterline pipe material shall be PVC AWWA C-900
- All bell end joints shall be 150' (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 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 indicate 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 joints shall be installed at each curb return and at a maximum spacing of 60 feet.
- All weather access to all existing streets and driveways shall be maintained at all times.
- 4"x12" reinforced concrete curb shall be placed in front of single family lots only. All other areas shall be 6" reinforced concrete curb. (SEE DETAIL SHEET TITLED "PAVING DETAILS")
- All at intersection locations, Type 7 ramps shall be placed in accordance with TxDOT PED-12a standard detail sheet in the STA. 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 ramps installed.
- Guidelines are 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.
- All R1-1 stop signs shall be 30"x30" with diamond grade sheeting per Texas manual on uniform traffic control devices
- 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 reflective white. Street name signs shall be mounted on stop sign post.
- A Blue Double Reflectorized button shall be placed at all Fire Hydrant locations. The Button shall be placed 12 inches off of the centerline of the street on the same side as the hydrant.
- The project and all parts thereof shall be subject to inspection from time to time by inspectors designated by Fort Bend County. No such inspections shall relieve the Contractor of any of its obligations hereunder. Neither failure to inspect nor failure to discover or reject any of the work as not in accordance with the drawings and specifications, requirements and specifications of Fort Bend County or any provision of this project shall be construed to imply an acceptance of such work or to relieve the Contractor of any of its obligations hereunder.

NOTE: Fort Bend County notes supersede any conflicting notes.

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.
- 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/MDTOWN 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 ANY REASON, "TRAFFIC CONTROL PLANS" WERE SUBMITTED. (SHE) 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 PRIOR TO CONSTRUCTION.
- IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLANS" DURING CONSTRUCTION THAN WHAT IS OUTLINED IN THE CONTRACT DRAWINGS, (SHE) 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.
- APPROVED COPIED OF "TRAFFIC CONTROL PLANS" AND LANE/SIDEWALK CLOSURE PERMITS SHALL BE AVAILABLE FOR INSPECTION AT JOB SITE.
- 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.

BENCHMARK PUBLISHED ELEVATION - 125.06'
NATIONAL GEODETIC SURVEY MARKER, DESIGNATION "E 1280" PID #W21587, DISK STAMPED "E 1280 1978" LOCATED ABOUT 4.6 MILES EAST ALONG FARM ROAD 1093 FROM THE SOUTHERN PACIFIC RAILROAD STATION IN FULSHEAR. ALSO, 1.7 MILES EAST ALONG FARM ROAD 1093 FROM THE JUNCTION OF FARM ROADS 359 AND 1463, SET 0.1 MILE NORTHWEST OF A POWER LINE SUB-STATION, 60 FEET NORTH OF THE CENTERLINE OF THE ROAD, 20.5 FEET EAST OF THE CENTERLINE OF A FIELD ROAD AND GATE LEADING NORTH, 2.5 FEET WEST-NORTHWEST OF A POWER POLE, NUMBER 1405, AND 1 FOOT SOUTH OF A FENCE. THE MARK IS 0.3 METERS SOUTH FROM A WITNESS POST. (NAVD 1988).

TBM "A" ELEVATION - 93.75'

A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE SOUTH OF WEST BELLFORT.

TBM "B" ELEVATION - 93.20'

A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE NORTH OF STATE HIGHWAY 89.

FORT BEND COUNTY ENGINEERING DEPARTMENT

ENGINEER: RICHARD W. STOLLEIS, P.E.

DATE: 12/14/17

THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.

APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/14/17

RECORD DRAWING

I 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

BY: DATE:

TITLE:

RECORD DRAWING

I 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

BY: DATE:

TITLE:

DATE	REVISION	BY

PLAT NAME: SHOPS AT ALIANA

CPC 101 FILE NO. 2017-1121C2
C.O.H. LOG NO. 17-1654

CITY OF HOUSTON E.T.J.
FORT BEND COUNTY, TEXAS

ALIANA-HUNNINGTON WATER LINE
AND MEDIAN IMPROVEMENTS

GENERAL NOTES

LJA Engineering, Inc. Phone 713.953.5200
1904 W. Grand Parkway North Suite 100 Fax 713.953.5026
Katy, Texas 77449 FRN-F-1386

LJA PROJECT NO.: 2423-1702

DESIGNED BY: DPM DRAWN BY: DPM DATE: SEPTEMBER 2017

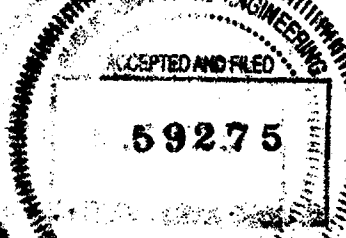
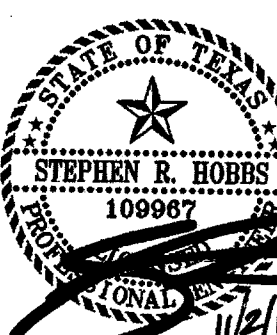
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WASTEWATER	TRAFFIC & TRANSPORTATION
STORM	STORM WATER QUALITY
FACILITIES	

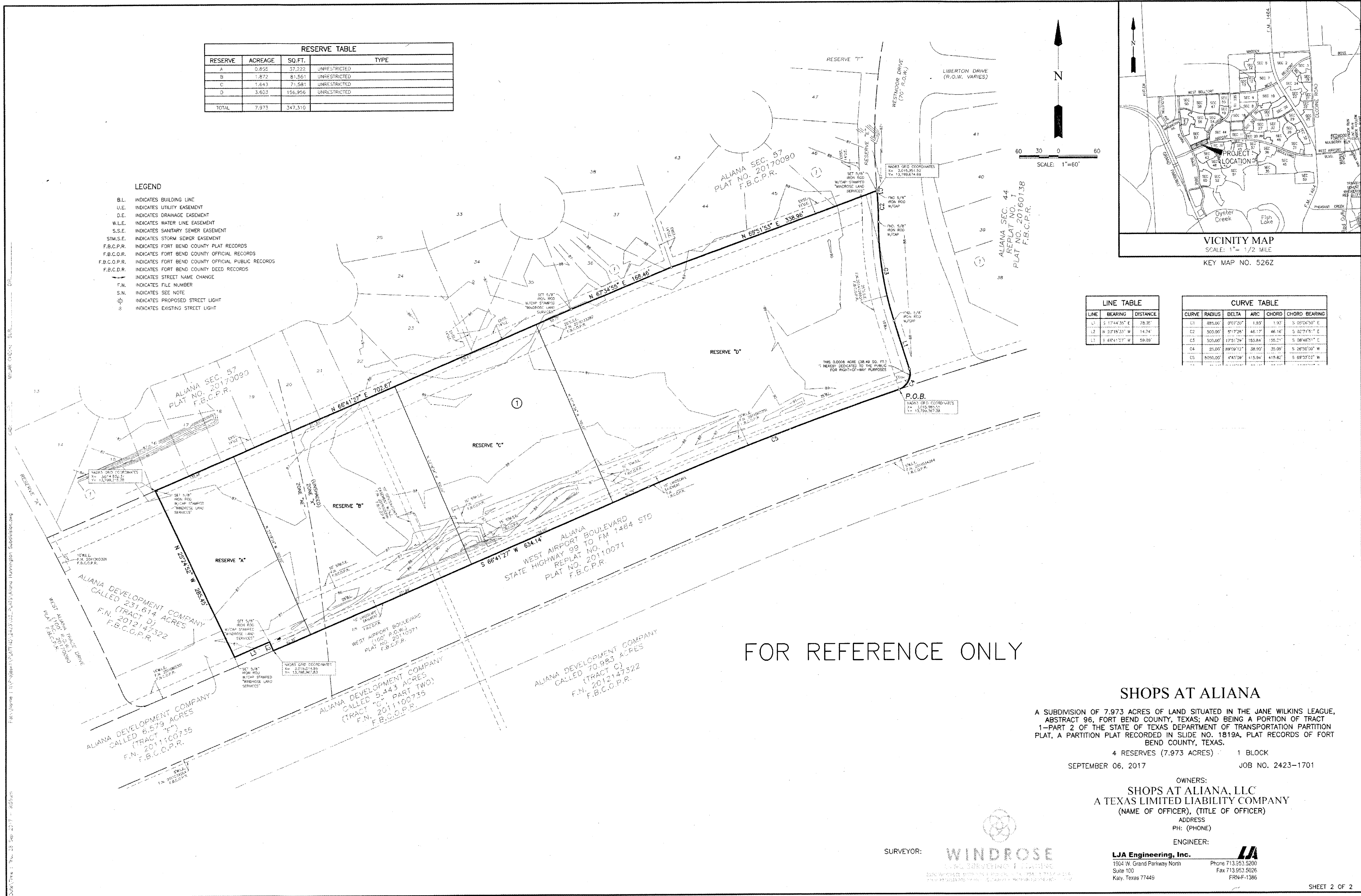
FILE NO.

DRAWING SCALE

SCALE: NONE

SHEET NO. 02 of 16





BENCHMARK PUBLISHED ELEVATION — 125.06'
NATIONAL GEODETIC SURVEY MARKER, DESIGNATION "E 1280", PID "AW2158", DISK STAMPED "E 1280 1978" LOCATED ABOUT 4.6 MILES EAST ALONG FARM ROAD 1093 FROM THE SOUTHERN PACIFIC RAILROAD STATION IN FULSHEAR. ALSO, 1.7 MILES EAST ALONG FARM ROAD 1093 FROM THE JUNCTION OF FARM ROADS 358 AND 1463, SET 0.1 MILE NORTHWEST OF A POWER LINE SUB-STATION, 60 FEET NORTH OF THE CENTERLINE OF THE ROAD, 20.5 FEET EAST OF THE CENTERLINE OF A FIELD ROAD AND GATE LEADING NORTH, 2.5 FEET WEST-NORTHWEST OF A POWER POLE, NUMBER 1405, AND 1 FOOT SOUTH OF A FENCE. THE MARK IS 0.3 METERS SOUTH FROM A WITNESS POST. (NAVD 1988).

TBM "A" ELEVATION — 93.75'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE SOUTH OF WEST BELFORT.

TBM "B" ELEVATION — 93.20'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE NORTH OF STATE HIGHWAY 99.

FORT BEND COUNTY ENGINEERING DEPARTMENT

ENGINEER: RICHARD W. STOLLES, P.E.
DATE:
THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.
APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 12/14/17

RECORD DRAWING

I 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

BY _____ DATE _____
TITLE _____

RECORD DRAWING

I 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

BY _____ DATE _____
TITLE _____

DATE	REVISION	BY

PLAT NAME: SHOPS AT ALIANA
CPC 101 FILE NO. 2017-1121C2
C.O.H. LOG NO. 17-1654

CITY OF HOUSTON E.T.J.
FORT BEND COUNTY, TEXAS

ALIANA-HUNTINGTON WATER LINE
AND MEDIAN IMPROVEMENTS

PLAT

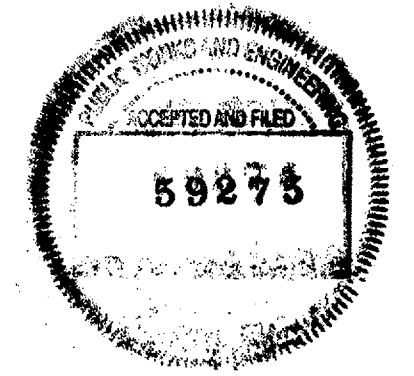
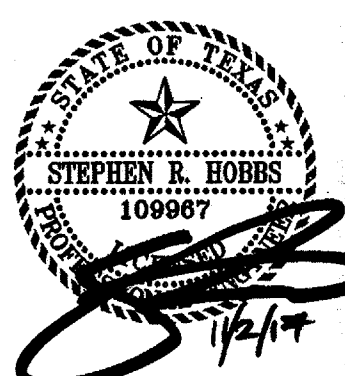
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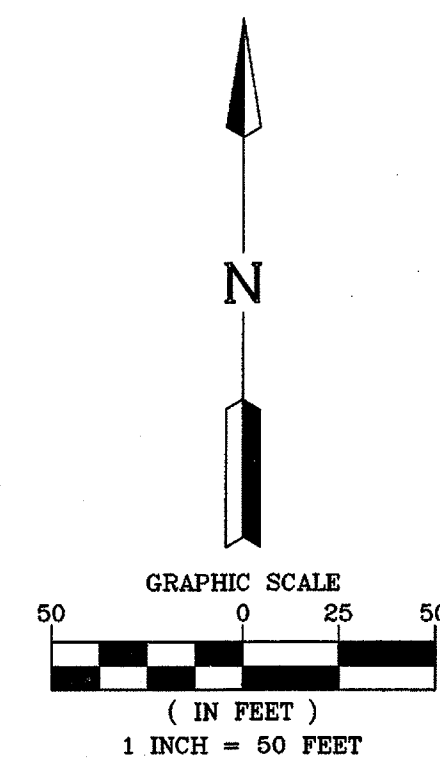
LJA Engineering, Inc.
1904 W. Grand Parkway North
Suite 100
Katy, Texas 77449
Phone 713.953.5200
Fax 713.953.5026
FRN-F-1386

LJA PROJECT NO.: 2423-1702
DESIGNED BY: DPM
DRAWN BY: DPM
DATE: SEPTEMBER 2017

WATER	STREET & BRIDGE
TRAFFIC & TRANSPORTATION	
STORM	STORM WATER QUALITY
FACILITIES	

FILE NO.
DRAWING SCALE
SCALE: NONE
SHEET NO. 04 OF 16





TBM "B" ELEVATION - 93.20'
A CUT BOX IN FIRST CONCRETE "C" INLET
LOCATED ON THE WEST R.O.W. OF WATERVIEW
MEADOW DRIVE NORTH OF STATE HIGHWAY
99.

DATE: 12/14/17

BY _____ DATE _____

BY _____ DATE _____

PLAT NAME: SHOPS AT ALIANA
CPC 101 FILE NO. 2017-1121C2
C.O.H. LOG NO. 17-1654

OVERALL SITE PLAN

LJA PROJECT NO.: 2423-1702

DESIGNED BY: DPM	DRAWN BY: DPM	DATE: SEPTEMBER 2017
---------------------	------------------	-------------------------

WATER	STREET & BRIDGE
WASTEWATER	TRAFFIC & TRANSPORTATION
STORM	STORM WATER QUALITY
FACILITIES	

FILE NO.	
----------	--

DRAWING SCALE

SCALE: AS SHOWN

SHEET NO. 05 OF 16

Line Table			Curve Table			
Line #	Length	Direction	Curve #	Length	Radius	Delta
L1	67.111	S66° 26' 03.35"W	C4	7.516	3.000	143.5490
L5	59.007	N66° 41' 27.20"E	C10	59.632	499.500	6.8402
L2	65.679	S66° 30' 28.36"W	C3	43.518	56.363	44.2382
L3	40.993	S58° 12' 52.67"W	C12	9.516	4.000	136.3044
L4	64.267	N66° 44' 57.80"E	C11	32.657	90.189	20.7465
			C13	34.024	90.000	21.6604
			C15	11.288	5.000	129.3537
			C16	44.925	91.279	28.1992
			C14	39.849	80.995	28.1889
			C2	64.738	500.054	7.4176
			C1	36.149	1309.042	1.5822
			C5	32.657	90.189	20.7465
			C6	9.516	4.000	136.3044
			C7	34.024	90.000	21.6604
			C8	64.738	500.054	7.4176
			C9	36.149	1309.042	1.5822

PROPOSED WATER LINE, G.V.&B. WITH FLUSHING VALVE -----

EXISTING WATER LINE, G.V.&B. WITH FLUSHING VALVE -----

PROPOSED SANITARY SEWER LINE & MANHOLE & CLEANOUT-----

EXISTING SANITARY SEWER LINE & MANHOLE -----

PROPOSED STORM SEWER LINE, TYPE C MH & INLETS -----

PROPOSED TYPE C INLET -----

EXISTING STORM LOWER LINE AND MANHOLE & INLETS -----

EXISTING ELEVATIONS -----

EXISTING ELECTRICAL UNDERGROUND CONDUIT-----

EXISTING GAS LINE -----

EXISTING UNDERGROUND TELEPHONE CABLE -----

PROPOSED CATCH BASIN -----

PROPOSED JUNCTION BOX-----

CUMULATIVE FUTURE UNITS -----

BUILDING FIXTURE UNITS -----

ONE JT. CS90 PVC CENTERED EACH WAY -----

PROPOSED WATER METER -----

PROPOSED BORE -----

CLEAN OUT -----

SHEET NUMBER REFERENCE -----

USE -----

GAS -----

WOT -----

864

142

7

C.O.

6

① CONTRACTOR TO REMOVE ONLY ANNOTATED TREES AND REMOVE OF SITE.

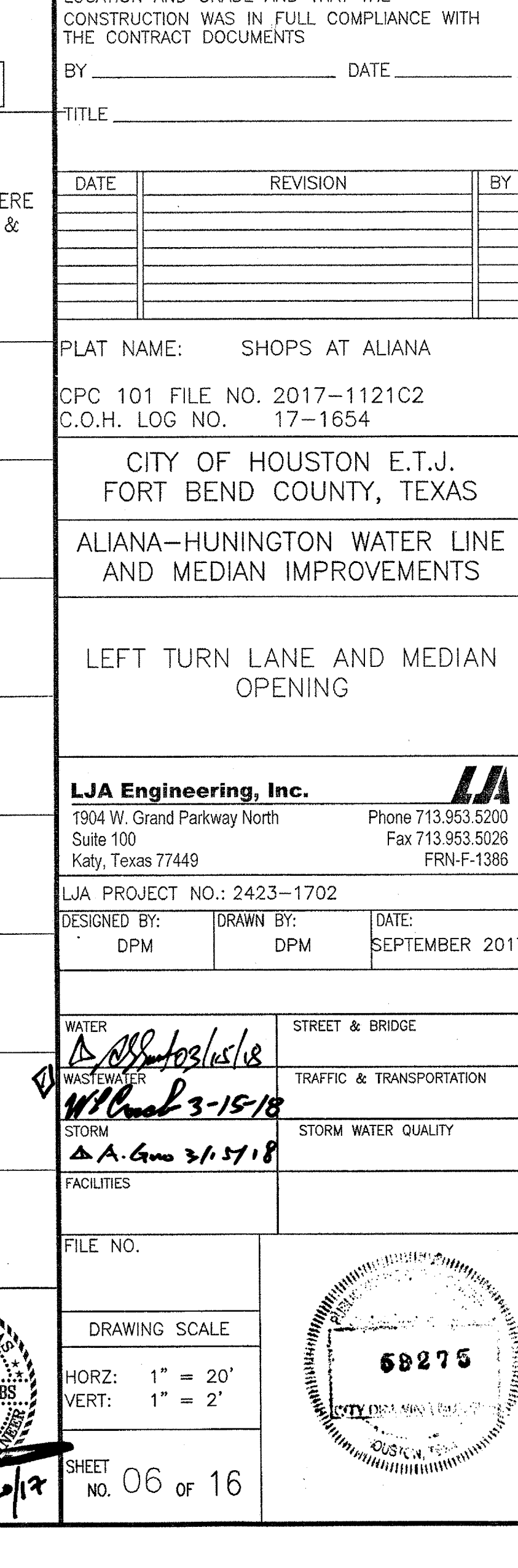
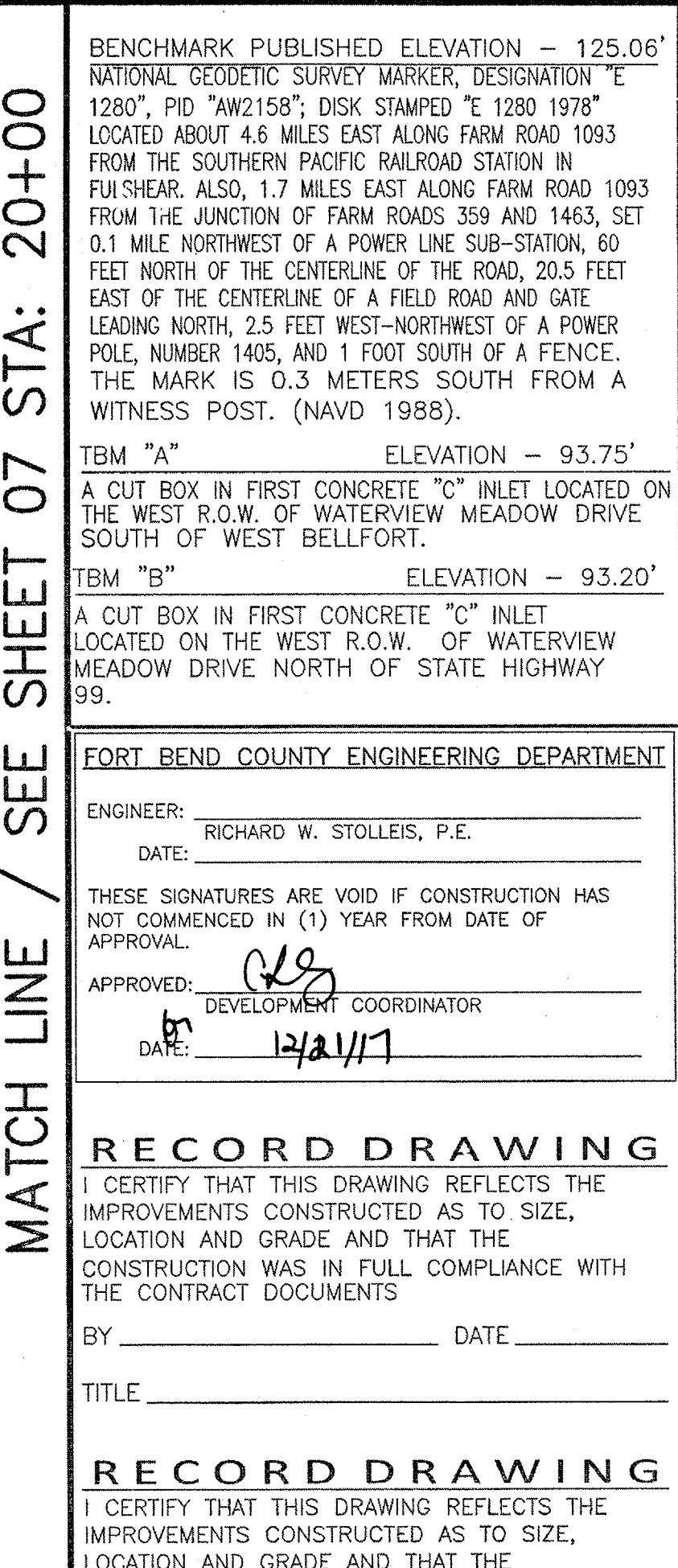
AND REMOVE OF DEBRIS OFF 5.4
8315

1 - MHC-3-15-

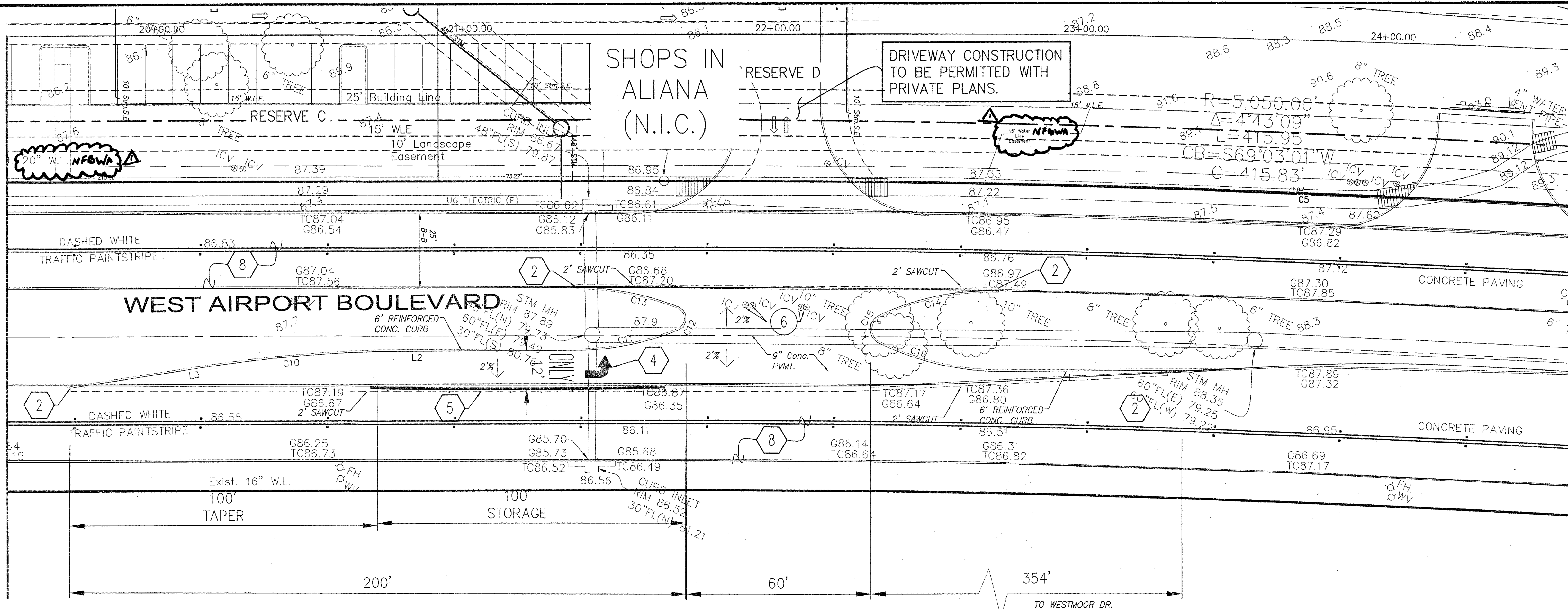
AG 3/15/

24
 NFWA REVISION
 3/4/18
 STATE OF TEXAS
 STEPHEN R. HOBBS
 109967
 11/2/17

TECHNICAL WORKING GROUP AND ENGINEERING GROUP
ACCEPTED AND FILED
58275



ALLANA-HUNNINGTON WATERLINE AND MEDIAN IMPROVEMENTS 2423-1702



GRADING NOTES:

- 1 8" WIDE SOLID WHITE STRIPE PER FORT BEND COUNTY STANDARDS DETAIL SL-28, SHEET 14.
- 2 CONTRACTOR TO MATCH ELEVATION AT EXISTING PAVEMENT.
- 3 ADJUST EXISTING STORM MANHOLE TO MATCH PROPOSED PAVEMENT.
- 4 TURNING ARROW SEE DETAIL SL-28, SHEET 14.
- 5 4" SQ. 1-WAY REFLECTORIZED WHITE RAISED PAVEMENT MARKERS, TYPE I-C, SEE DETAIL SL-28, SHEET 14.
- 6 TxDOT R3-SL SIGN - LEFT TURN LANE.
- 7 CONTRACTOR TO VERIFY DEPTH OF CIP CONDUIT PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IN WRITING.
- 8 EXIST. 9" PAVEMENT WITH 6" CURB

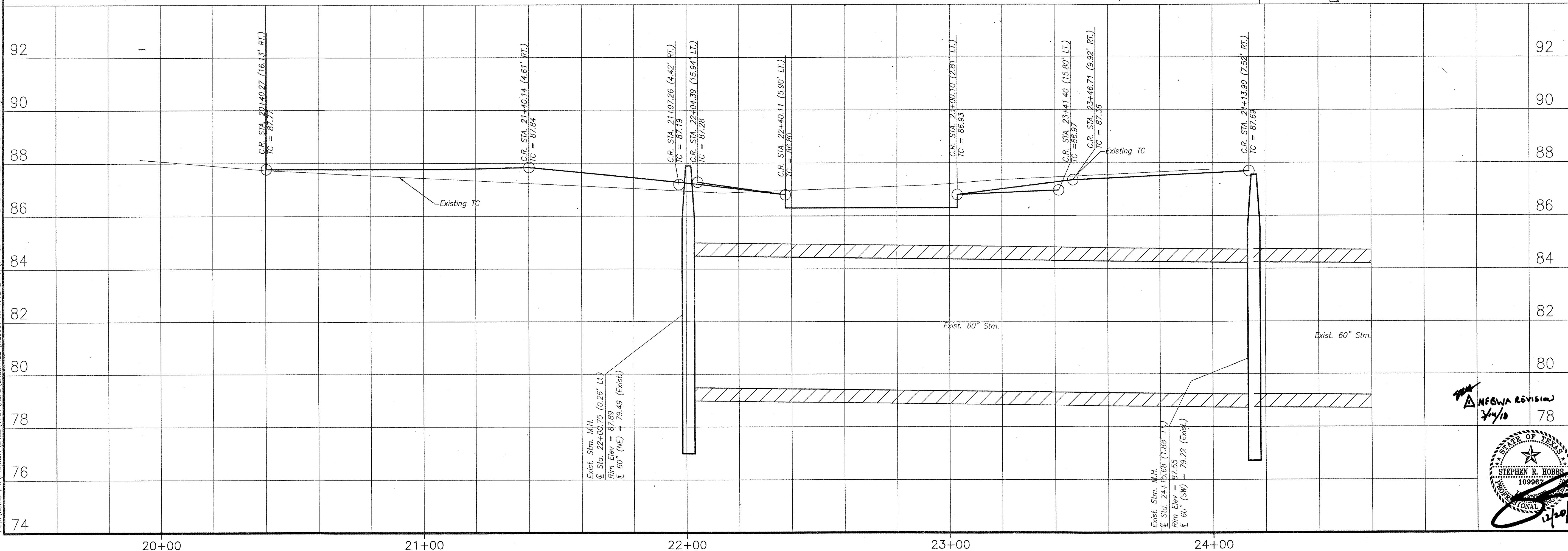
NOTE:

ALL PROPOSED ELEVATIONS NOTED ARE TO FINISHED PAVEMENT GRADE. FOR TOP OF CURB GRADE, WHERE APPLICABLE, ADD 6"

GENERAL NOTES:

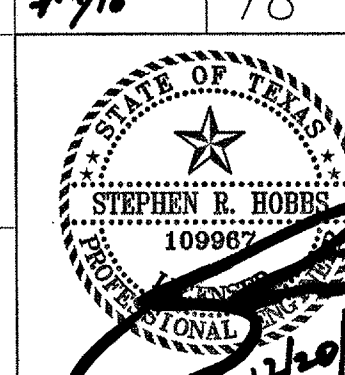
- 1 CONTRACTOR SHALL MAINTAIN SITE DRAINAGE AT ALL TIMES.
- 2 ALL MATERIALS FROM DEMOLITION/REMOVALS AS WELL AS EXCESS MATERIALS FROM THE EXCAVATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHO SHALL DISPOSE OFF-SITE IN A LAWFUL MANNER.
- 3 GRADE PAVING UNIFORMITY BETWEEN INDICATED ELEVATIONS. ADJUST ELEVATIONS AS DIRECTED BY THE ENGINEER AND AS REQUIRED TO ACHIEVE POSITIVE DRAINAGE AND PLEASING APPEARANCE THROUGHOUT.
- 4 ADJUST STRUCTURES (JUNCTION BOXES, VALVE BOXES, PULL BOXES, ETC.) AS REQUIRED TO CONFORM TO NEW FINISHED GRADES.
- 5 PROPOSED PAVEMENT THICKNESS TO MATCH EXISTING PAVEMENT.
- 6 CONTRACTOR TO COORDINATE ALL IRRIGATION SHUT OFFS AND REPAIRS WITH HLU LANDSCAPING (ROME ALFARO 281-808-6229)

WEST AIRPORT BLVD (100' R.O.W.)



CENTER 1-18" PVC SANITARY JOINT OVER/UNDER 1-18" PVC WL JOINT. ADHERE TO PROTECTION REQUIREMENTS FOR WL & SANITARY CROSSINGS PER THE CITY OF HOUSTON INFRASTRUCTURE DESIGN MANUAL (TABLE 7.3)

REVISION
3/4/10
A.G. 3/15/10



BENCHMARK PUBLISHED ELEVATION - 125.06'
NATIONAL GEODETIC SURVEY MARKER, DESIGNATION "E 1280", PID "AW2158", DISK STAMPED "E 1280 1978" LOCATED ABOUT 4.6 MILES EAST ALONG FARM ROAD 1093 FROM THE SOUTHERN PACIFIC RAILROAD STATION IN FULSHEAR, ALSO, 1.7 MILES EAST ALONG FARM ROAD 1093 FROM THE JUNCTION OF FARM ROADS 359 AND 1463, SET 0.1 MILE NORTHWEST OF A POWER LINE SUB-STATION, 60 FEET NORTH OF THE CENTERLINE OF THE ROAD, 20.5 FEET EAST OF THE CENTERLINE OF A FIELD ROAD AND GATE LEADING NORTH, 2.5 FEET WEST-NORTHWEST OF A POWER POLE, NUMBER 1405, AND 1 FOOT SOUTH OF A FENCE. THE MARK IS 0.3 METERS SOUTH FROM A WITNESS POST. (NAVD 1988).

TBM "A" ELEVATION - 93.75'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE SOUTH OF WEST BELLFORT.

TBM "B" ELEVATION - 93.20'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE NORTH OF STATE HIGHWAY 99.

SEE SHEET 5 FOR LINE AND CURVE TABLE
FOR ALL LINE AND CURVE INFORMATION REFERENCE SHEET 05

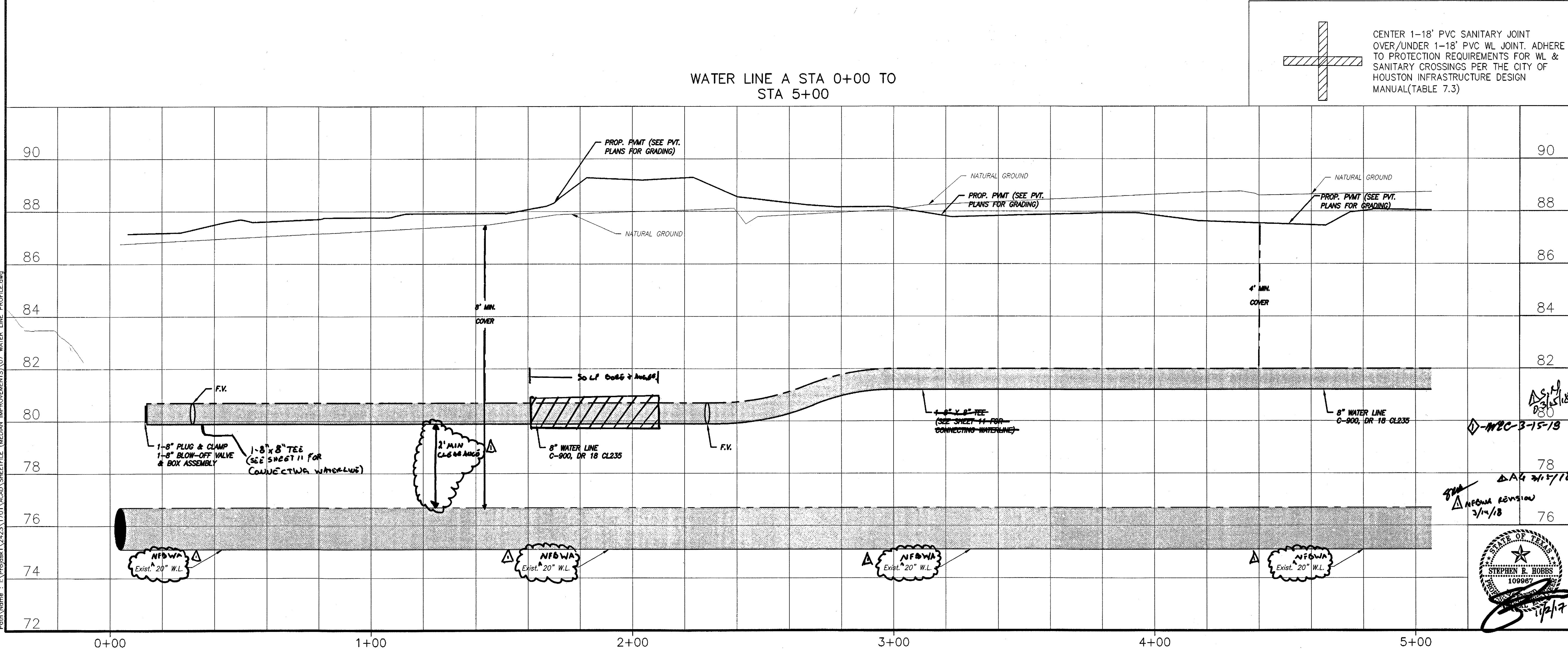
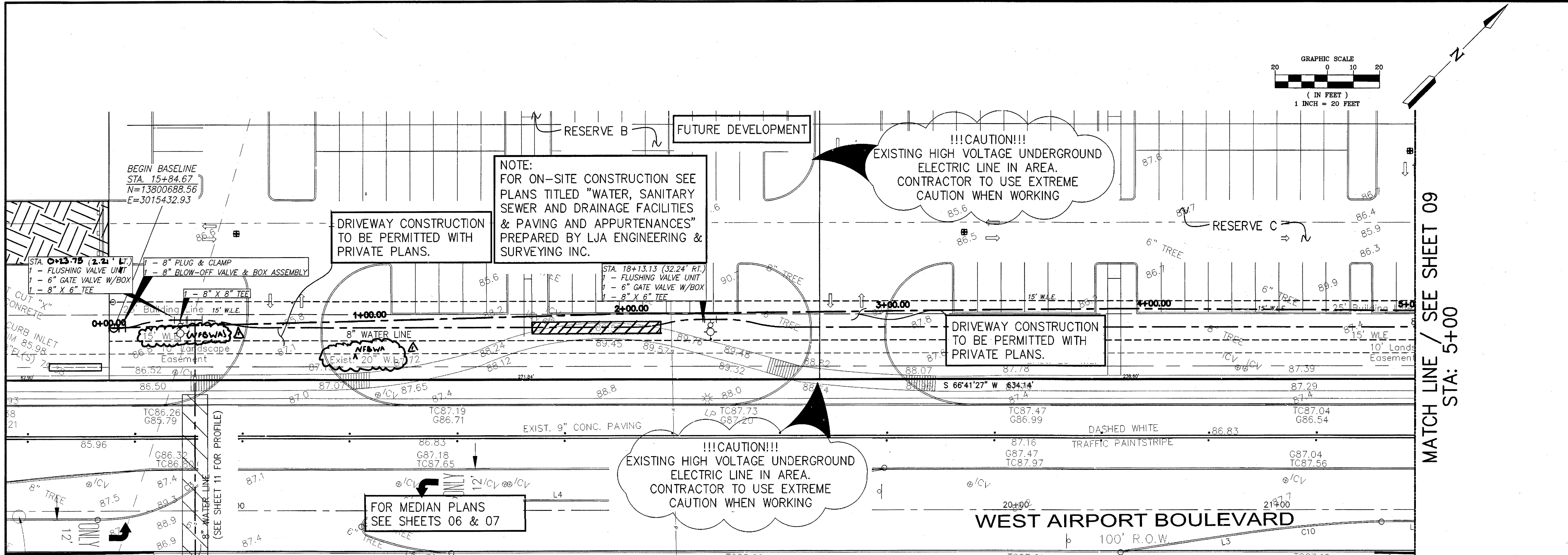
FORT BEND COUNTY ENGINEERING DEPARTMENT
ENGINEER: RICHARD W. STOLLES, P.E.
DATE: _____
THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.
APPROVED: *AS* DEVELOPMENT COORDINATOR
DATE: 12/21/17

RECORD DRAWING
I 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
BY: _____ DATE: _____
TITLE: _____

RECORD DRAWING
I 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
BY: _____ DATE: _____
TITLE: _____

DATE	REVISION	BY

PLAT NAME: SHOPS AT ALIANA
CPC 101 FILE NO. 2017-1121C2
C.O.H. LOG NO. 17-1654
CITY OF HOUSTON E.T.J.
FORT BEND COUNTY, TEXAS
ALIANA-HUNINGTON WATER LINE AND MEDIAN IMPROVEMENTS
LEFT TURN LANE AND MEDIAN OPENING 2
LJA Engineering, Inc.
1904 W. Grand Parkway North Suite 100 Katy, Texas 77449 Phone 713.953.5200 Fax 713.953.5026 FRN-F-1388
LJA PROJECT NO.: 2423-1702
DESIGNED BY: DPM DRAWN BY: DPM DATE: SEPTEMBER 2017
WATER STREET & BRIDGE
WASTEWATER TRAFFIC & TRANSPORTATION
STORM STORM WATER QUALITY
FACILITIES
FILE NO. _____
DRAWING SCALE
HORZ: 1" = 20'
VERT: 1" = 2'
SHEET NO. 07 OF 16



BENCHMARK PUBLISHED ELEVATION — 125.06'
NATIONAL GEODETIC SURVEY MARKER, DESIGNATION "E 1280", PID "AW2158"; DISK STAMPED "E 1280 1978" LOCATED ABOUT 4.6 MILES EAST ALONG FARM ROAD 1093 FROM THE SOUTHERN PACIFIC RAILROAD STATION IN FULSHEAR. ALSO, 1.7 MILES EAST ALONG FARM ROAD 1093 FROM THE JUNCTION OF FARM ROADS 359 AND 1463, SET 0.1 MILE NORTHWEST OF A POWER LINE SUB-STATION, 80 FEET NORTH OF THE CENTERLINE OF THE ROAD, 20.5 FEET EAST OF THE CENTERLINE OF A FIELD ROAD AND GATE LEADING NORTH, 2.5 FEET WEST-NORTHWEST OF A POWER POLE, NUMBER 1405, AND 1 FOOT SOUTH OF A FENCE. THE MARK IS 0.3 METERS SOUTH FROM A WITNESS POST. (NAVD 1988).

TBM "A" ELEVATION — 93.75'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE SOUTH OF WEST BELLFORT.

TBM "B" ELEVATION — 93.20'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE NORTH OF STATE HIGHWAY 99.

FORT BEND COUNTY ENGINEERING DEPARTMENT

ENGINEER: RICHARD W. STOLLEIS, P.E.
DATE: _____

THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL:
APPROVED: *CLS*
DEVELOPMENT COORDINATOR
DATE: 12/14/17

RECORD DRAWING
I 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
BY: _____ DATE: _____
TITLE: _____

RECORD DRAWING
I 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
BY: _____ DATE: _____
TITLE: _____

DATE	REVISION	BY

PLAT NAME: SHOPS AT ALIANA
CPC 101 FILE NO. 2017-1121C2
C.O.H. LOG NO. 17-1654

CITY OF HOUSTON E.T.J.
FORT BEND COUNTY, TEXAS

ALIANA-HUNINGTON WATER LINE AND MEDIAN IMPROVEMENTS

WATER LINE A STA 0+00 TO STA 5+00

LJA Engineering, Inc.
1904 W. Grand Parkway North Suite 100
Katy, Texas 77449
Phone 713.953.5200
Fax 713.953.5026
FRN-F-1386

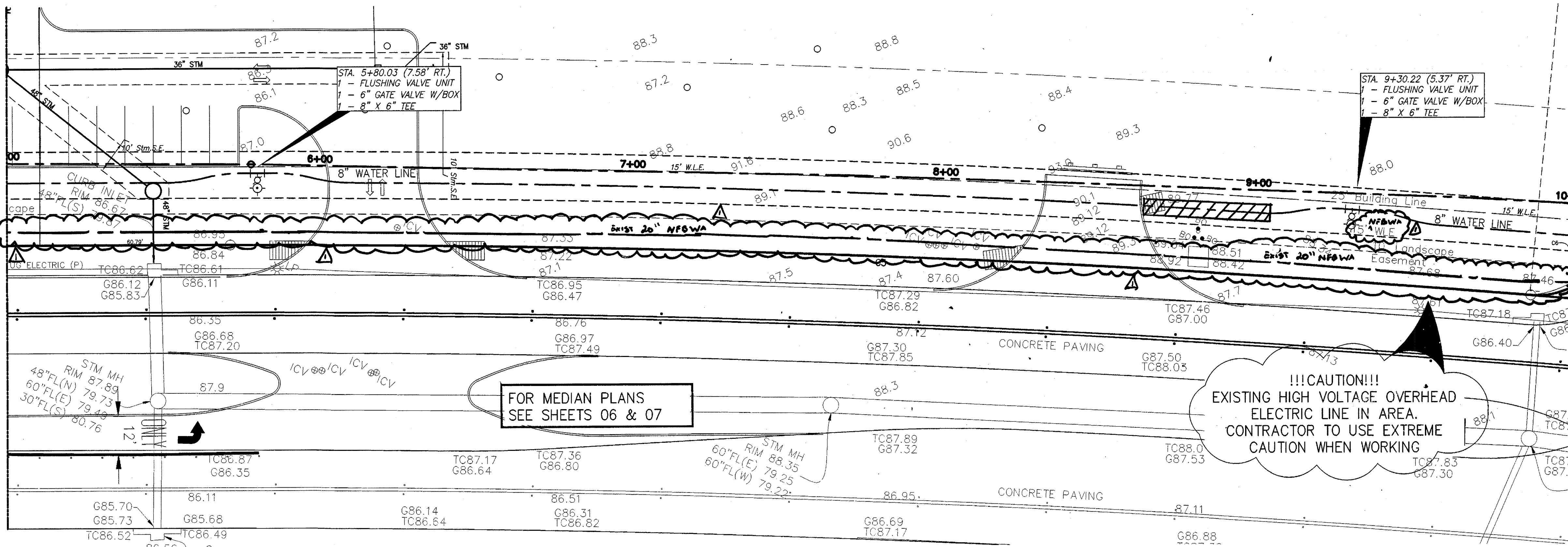
LJA PROJECT NO.: 2423-1702
DESIGNED BY: DPM
DRAWN BY: DPM
DATE: SEPTEMBER 2017

WATER	STREET & BRIDGE
WASTEWATER	TRAFFIC & TRANSPORTATION
STORM	STORM WATER QUALITY

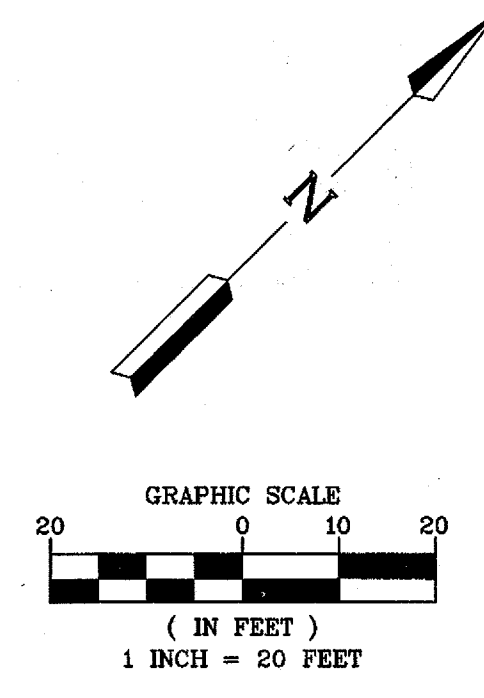
FILE NO. _____
DRAWING SCALE
HORZ: 1" = 20'
VERT: 1" = 2'
SHEET NO. 08 OF 16

STATE OF TEXAS
109067
59275

MATCH LINE / SEE SHEET 08
STA: 5+00



MATCH LINE / SEE SHEET 10
STA: 10+00



BENCHMARK PUBLISHED ELEVATION - 125.06'
NATIONAL GEODETIC SURVEY MARKER, DESIGNATION "E"
1280", PID "AW2158"; DISK STAMPED "E 1280 1978"
LOCATED ABOUT 4.6 MILES EAST ALONG FARM ROAD 1093
FROM THE SOUTHERN PACIFIC RAILROAD STATION IN
FULSHEAR. ALSO, 1.7 MILES EAST ALONG FARM ROAD 1093
FROM THE JUNCTION OF FARM ROADS 339 AND 1483, SET
0.1 MILE NORTHWEST OF A POWER LINE SUB-STATION, 60
FEET NORTH OF THE CENTERLINE OF THE ROAD, 20.5 FEET
EAST OF THE CENTERLINE OF A FIELD ROAD AND GATE
LEADING NORTH, 2.5 FEET WEST-NORTHWEST OF A POWER
POLE, NUMBER 1405, AND 1 FOOT SOUTH OF A FENCE.
THE MARK IS 0.3 METERS SOUTH FROM A
WITNESS POST. (NAVD 1988).

TBM "A" ELEVATION - 93.75'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON
THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE
SOUTH OF WEST BELLFORT.

TBM "B" ELEVATION - 93.20'
A CUT BOX IN FIRST CONCRETE "C" INLET
LOCATED ON THE WEST R.O.W. OF WATERVIEW
MEADOW DRIVE NORTH OF STATE HIGHWAY
99.

FORT BEND COUNTY ENGINEERING DEPARTMENT
ENGINEER: RICHARD W. STOLLEIS, P.E.
DATE:
THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS
NOT COMMENCED IN (1) YEAR FROM DATE OF
APPROVAL:
APPROVED: *CRS*
DEVELOPMENT COORDINATOR
DATE: 12/14/17

RECORD DRAWING
I 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
BY: _____ DATE: _____
TITLE: _____

RECORD DRAWING
I 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
BY: _____ DATE: _____
TITLE: _____

DATE	REVISION	BY

PLAT NAME: SHOPS AT ALIANA
CPC 101 FILE NO. 2017-1121C2
C.O.H. LOG NO. 17-1654

CITY OF HOUSTON E.T.J.
FORT BEND COUNTY, TEXAS

ALIANA-HUNINGTON WATER LINE
AND MEDIAN IMPROVEMENTS

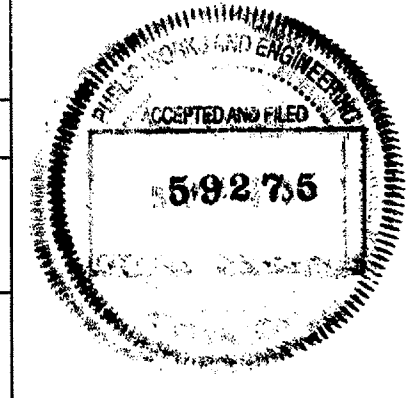
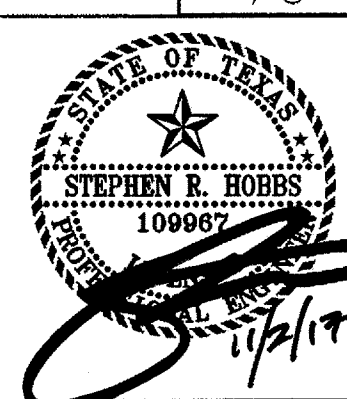
WATER LINE A STA 5+00 TO
STA 10+00

LJA Engineering, Inc.
1904 W. Grand Parkway North Phone 713.953.5200
Suite 100 Fax 713.953.5026
Katy, Texas 77449 FRN-F-1386

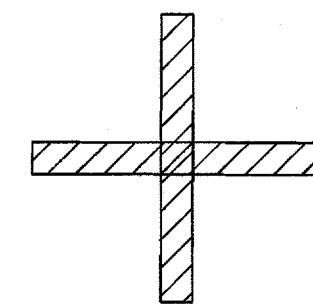
LJA PROJECT NO.: 2423-1702
DESIGNED BY: DPM DRAWN BY: DPM DATE: SEPTEMBER 2017

WATER	STREET & BRIDGE
WASTEWATER	TRAFFIC & TRANSPORTATION
STORM	STORM WATER QUALITY
FACILITIES	

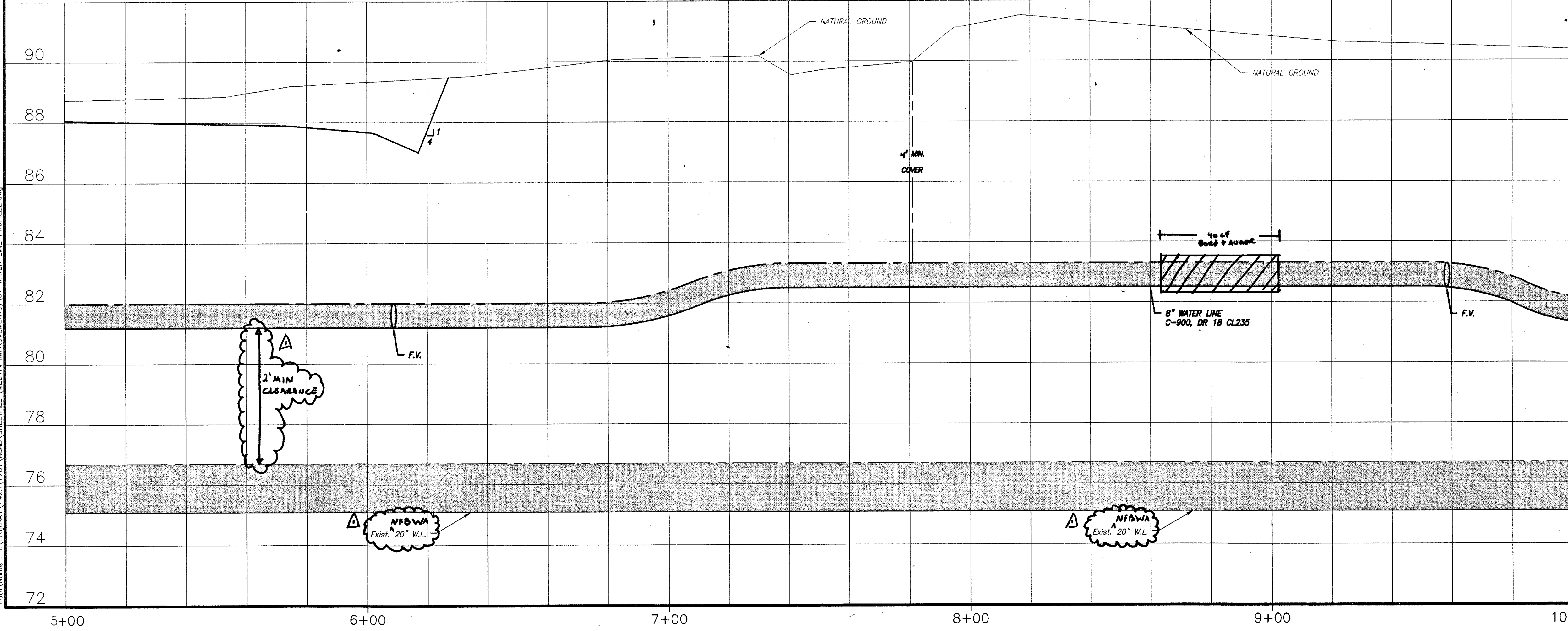
FILE NO.
DRAWING SCALE
HORZ: 1" = 20'
VERT: 1" = 2'
SHEET NO. 09 OF 16



WATER LINE A STA 5+00 TO
STA 10+00



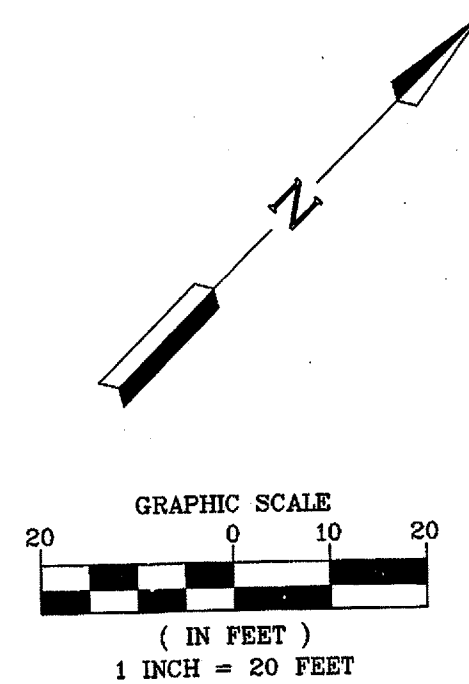
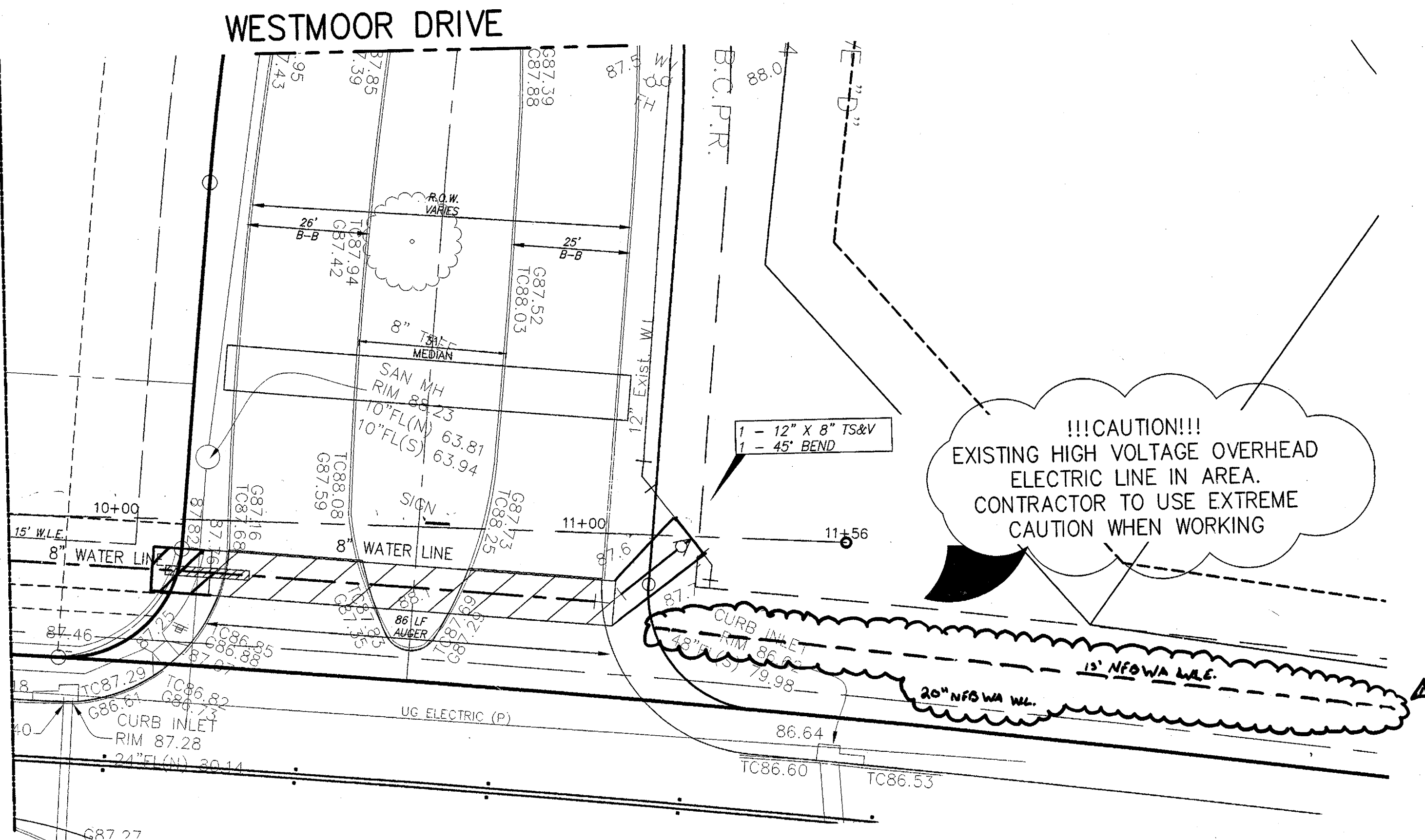
CENTER 1-18" PVC SANITARY JOINT
OVER/UNDER 1-18" PVC WL JOINT. ADHERE
TO PROTECTION REQUIREMENTS FOR WL &
SANITARY CROSSINGS PER THE CITY OF
HOUSTON INFRASTRUCTURE DESIGN
MANUAL (TABLE 7.3)



Date: Time: Wed, 01 Nov 2017 - 9:44pm User Name: r. stolles
Path Name: E:\Projects\2423\1702\ALIA\CD\07 WATER LINE PROFILE.dwg

ALIANA-HUNINGTON WATERLINE AND MEDIAN IMPROVEMENTS 2423-1702

MATCH LINE / SEE SHEET 09
STA: 10+00.00



BENCHMARK PUBLISHED ELEVATION - 125.06'
NATIONAL GEODETIC SURVEY MARKER, DESIGNATION "E 1280", PID "AW2158"; DISK STAMPED "E 1280 1978" LOCATED ABOUT 4.6 MILES EAST ALONG FARM ROAD 1093 FROM THE SOUTHERN PACIFIC RAILROAD STATION IN FULSHEAR. ALSO, 1.7 MILES EAST ALONG FARM ROAD 1093 FROM THE JUNCTION OF FARM ROADS 359 AND 1463, SET 0.1 MILE NORTHWEST OF A POWER LINE SUB-STATION, 60 FEET NORTH OF THE CENTERLINE OF THE ROAD, 20.5 FEET EAST OF THE CENTERLINE OF A FIELD ROAD AND GATE LEADING NORTH, 2.5 FEET WEST-NORTHWEST OF A POWER POLE, NUMBER 1405, AND 1 FOOT SOUTH OF A FENCE. THE MARK IS 0.3 METERS SOUTH FROM A WITNESS POST. (NAVD 1988).

TBM "A" ELEVATION - 93.75'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE SOUTH OF WEST BELLFORT.

TBM "B" ELEVATION - 93.20'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE NORTH OF STATE HIGHWAY 99.

FORT BEND COUNTY ENGINEERING DEPARTMENT

ENGINEER: RICHARD W. STOLLEIS, P.E.
DATE:

THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.

APPROVED: *CLB*
DATE: 12/14/17
DEVELOPMENT COORDINATOR

RECORD DRAWING

I 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

BY: DATE:

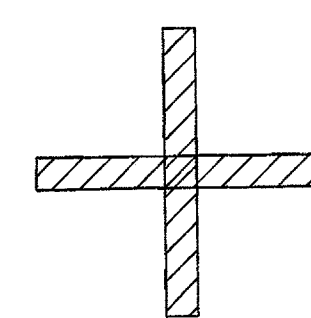
TITLE:

RECORD DRAWING

I 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

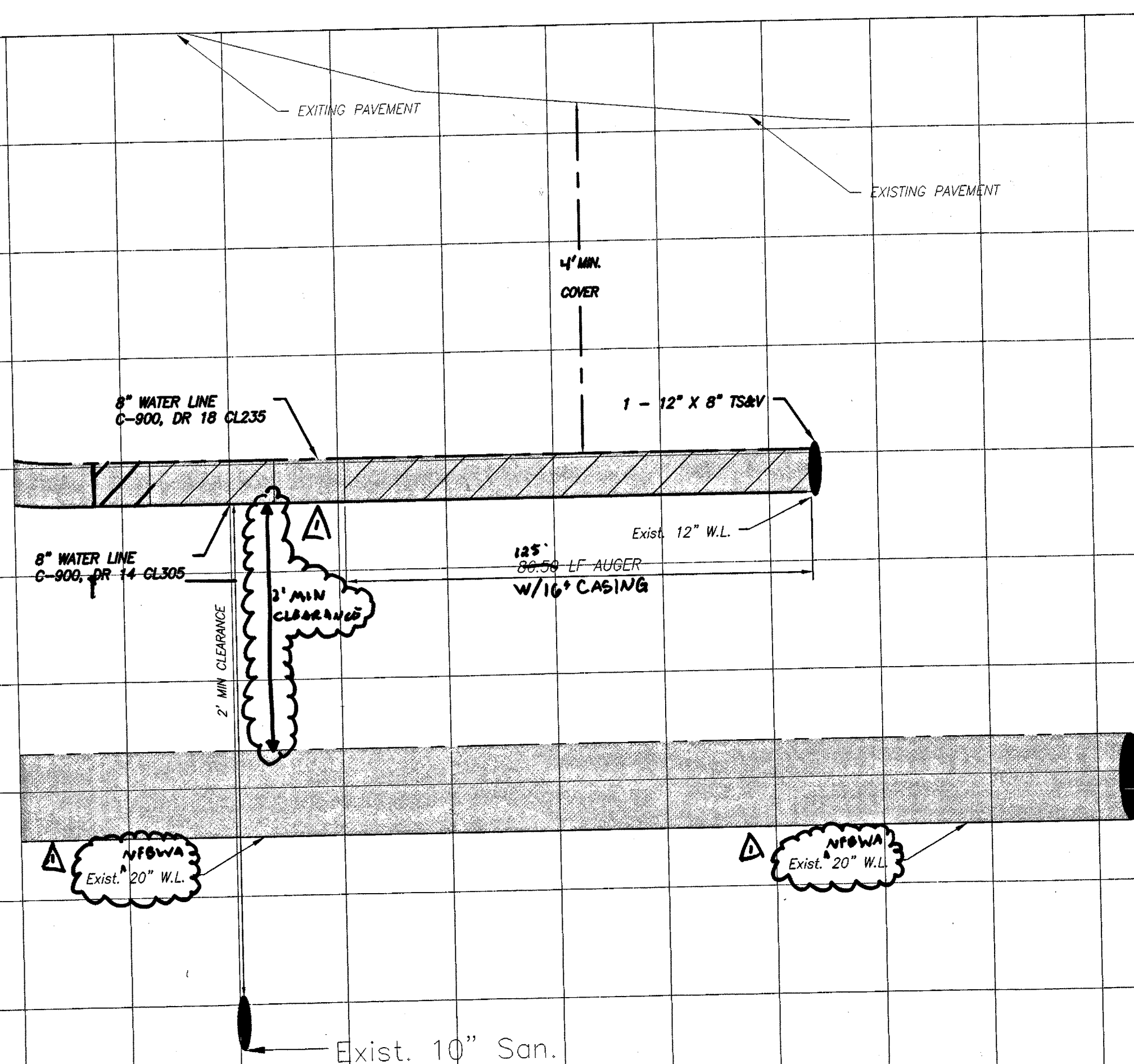
BY: DATE:

TITLE:



CENTER 1-18" PVC SANITARY JOINT OVER/UNDER 1-18" PVC WL JOINT. ADHERE TO PROTECTION REQUIREMENTS FOR WL & SANITARY CROSSINGS PER THE CITY OF HOUSTON INFRASTRUCTURE DESIGN MANUAL (TABLE 7.3)
8" WL C-900, DR, CL305

WATER LINE A STA 10+00 TO END



PLAT NAME: SHOPS AT ALIANA

CPC 101 FILE NO. 2017-112102
C.O.H. LOG NO. 17-1654

CITY OF HOUSTON E.T.J.
FORT BEND COUNTY, TEXAS

ALIANA-HUNINGTON WATER LINE AND MEDIAN IMPROVEMENTS

WATER LINE A STA 10+00 TO END

88

86

84

82

80

78

76

66

64

62

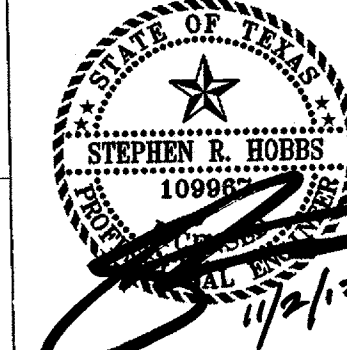
FILE NO.

DRAWING SCALE

HORZ: 1" = 20'

VERT: 1" = 2'

SHEET NO. 10 OF 16



File Name: W:\01 Nov 2017 - 8:55 AM - User Name: j. o'donoghue
Date: 11/2/17
Project: 2423-1702 ALIANA HUNTINGTON WATERLINE AND MEDIAN IMPROVEMENTS

76

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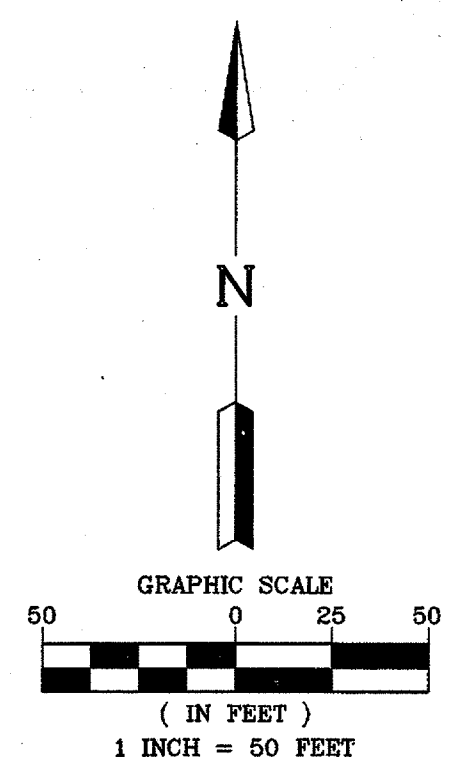
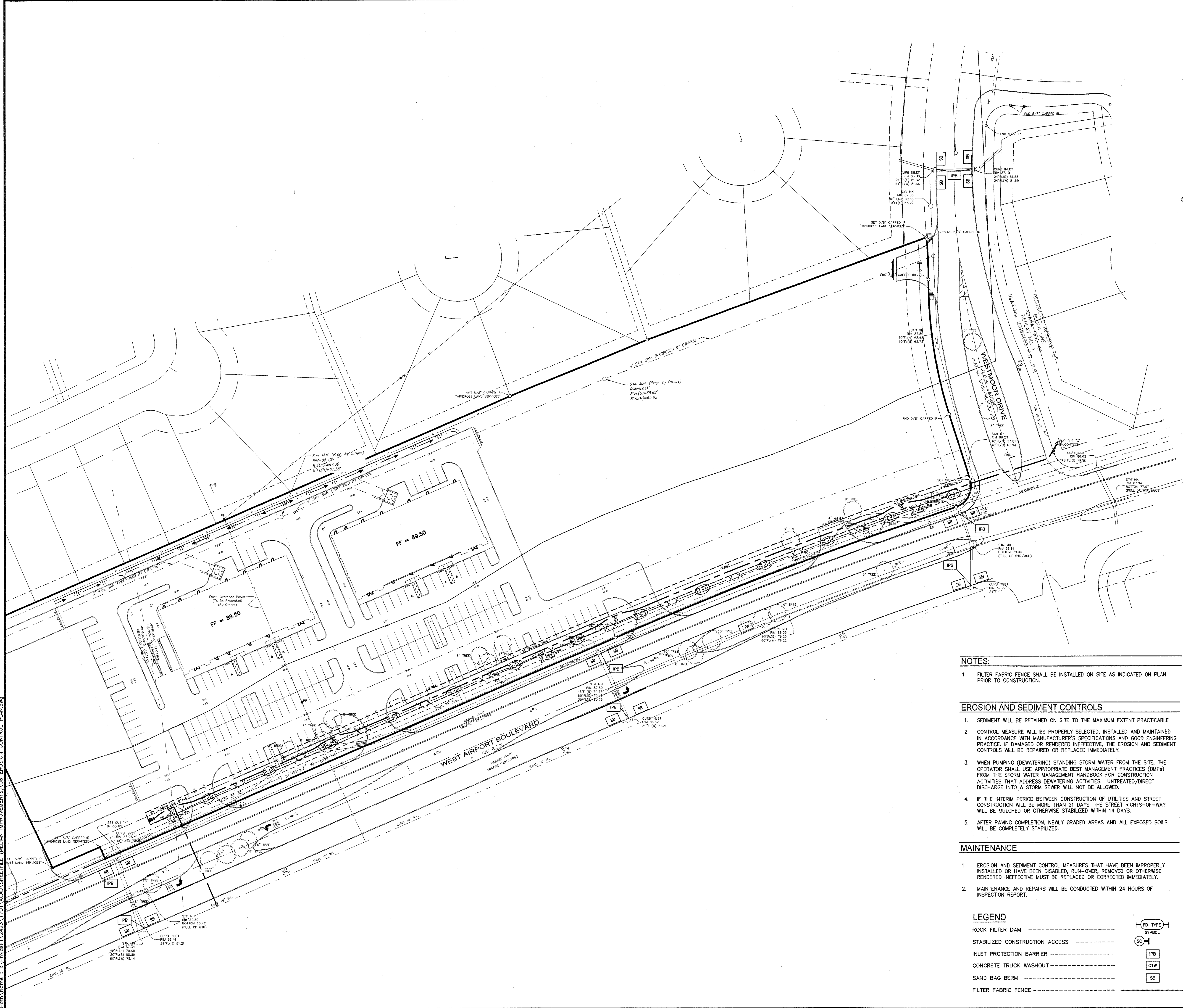
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\\L
Disk To: \\w... 01 Nov 2017 9:35AM User Name: e...
Path Name: \\... 2023.1701 (AKA) SHEETFILE (MEDIAN IMPROVEMENTS) 08 EROSION CONTROL PLAN.dwg



BENCHMARK PUBLISHED ELEVATION - 125.06'
NATIONAL GEODETIC SURVEY MARKER, DESIGNATION "E 1280", PID "AW2158", DISK STAMPED "E 1280 1978" LOCATED ABOUT 4.6 MILES EAST ALONG FARM ROAD 1093 FROM THE SOUTHERN PACIFIC RAILROAD STATION IN FULSHEAR. ALSO, 1.7 MILES EAST ALONG FARM ROAD 1093 FROM THE JUNCTION OF FARM ROADS 359 AND 1463, SET 0.1 MILE NORTHWEST OF A POWER LINE SUB-STATION, 60 FEET NORTH OF THE CENTERLINE OF THE ROAD, 20.5 FEET EAST OF THE CENTERLINE OF A FIELD ROAD AND GATE LEADING NORTH, 2.5 FEET WEST-NORTHWEST OF A POWER POLE, NUMBER 1405, AND 1 FOOT SOUTH OF A FENCE. THE MARK IS 0.3 METERS SOUTH FROM A WITNESS POST. (NAVD 1988).

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A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE SOUTH OF WEST BELLFORT.

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FORT BEND COUNTY ENGINEERING DEPARTMENT

ENGINEER: RICHARD W. STOLLEIS, P.E.
DATE: _____

THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 12/14/17

RECORD DRAWING
I 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

BY _____ DATE _____

TITLE _____

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BY _____ DATE _____

TITLE _____

DATE	REVISION	BY

PLAT NAME: SHOPS AT ALIANA
CPC 101 FILE NO. 2017-1121C2
C.O.H. LOG NO. 17-1654

CITY OF HOUSTON E.T.J.
FORT BEND COUNTY, TEXAS

ALIANA-HUNINGTON WATER LINE AND MEDIAN IMPROVEMENTS

EROSION CONTROL PLAN

LJA Engineering, Inc.

1904 W. Grand Parkway North
Suite 100
Katy, Texas 77449
Phone 713.953.5200
Fax 713.953.5025
FRN-F-1386

LJA PROJECT NO.: 2423-1702

DESIGNED BY: DPM
DRAWN BY: DPM
DATE: SEPTEMBER 2017

WATER	STREET & BRIDGE
WASTEWATER	TRAFFIC & TRANSPORTATION
STORM	STORM WATER QUALITY
FACILITIES	

FILE NO. _____

DRAWING SCALE _____

SCALE: AS SHOWN

SHEET NO. 12 OF 16

[Stamp: 59275]

- NOTES:**
1. FILTER FABRIC FENCE SHALL BE INSTALLED ON SITE AS INDICATED ON PLAN PRIOR TO CONSTRUCTION.

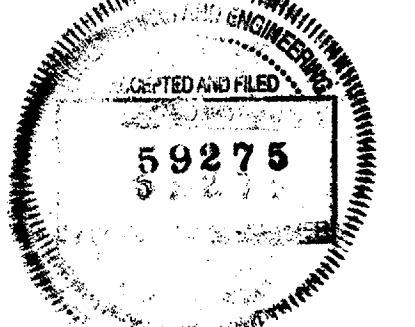
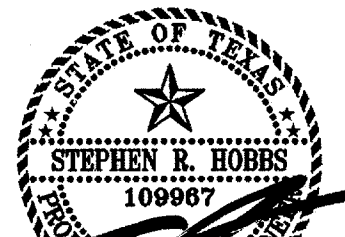
EROSION AND SEDIMENT CONTROLS

1. SEDIMENT WILL BE RETAINED ON SITE TO THE MAXIMUM EXTENT PRACTICABLE
2. CONTROL MEASURE WILL BE PROPERLY SELECTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND GOOD ENGINEERING PRACTICE. IF DAMAGED OR RENDERED INEFFECTIVE, THE EROSION AND SEDIMENT CONTROLS WILL BE REPAIRED OR REPLACED IMMEDIATELY.
3. WHEN PUMPING (DEWATERING) STANDING STORM WATER FROM THE SITE, THE OPERATOR SHALL USE APPROPRIATE BEST MANAGEMENT PRACTICES (BMPs) FROM THE STORM WATER MANAGEMENT HANDBOOK FOR CONSTRUCTION ACTIVITIES THAT ADDRESS DEWATERING ACTIVITIES. UNTREATED/DIRECT DISCHARGE INTO A STORM SEWER WILL NOT BE ALLOWED.
4. IF THE INTERIM PERIOD BETWEEN CONSTRUCTION OF UTILITIES AND STREET CONSTRUCTION WILL BE MORE THAN 21 DAYS, THE STREET RIGHTS-OF-WAY WILL BE MULCHED OR OTHERWISE STABILIZED WITHIN 14 DAYS.
5. AFTER PAVING COMPLETION, NEWLY GRADED AREAS AND ALL EXPOSED SOILS WILL BE COMPLETELY STABILIZED.

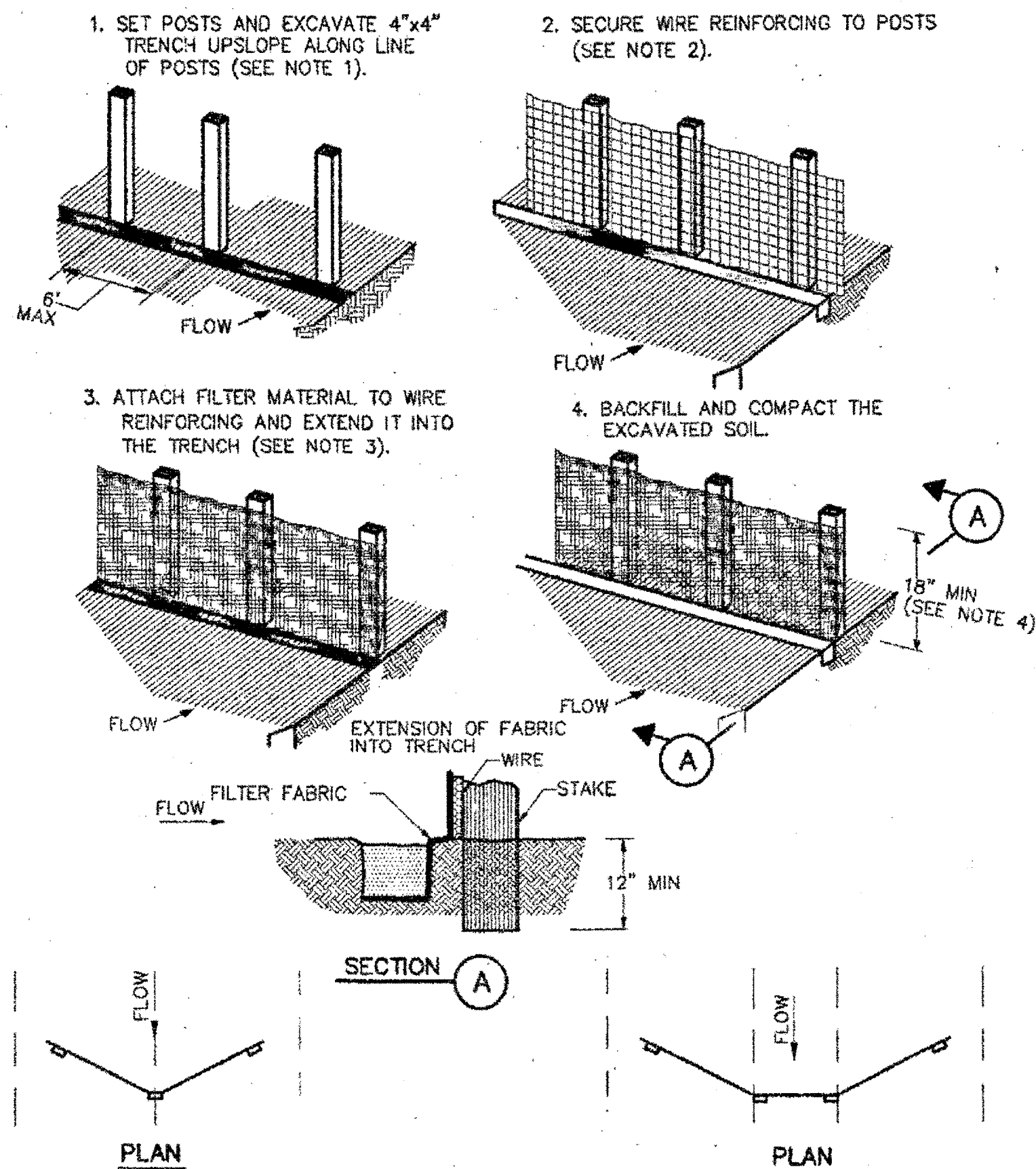
MAINTENANCE

1. EROSION AND SEDIMENT CONTROL MEASURES THAT HAVE BEEN IMPROPERLY INSTALLED OR HAVE BEEN DISABLED, RUN-OVER, REMOVED OR OTHERWISE RENDERED INEFFECTIVE MUST BE REPLACED OR CORRECTED IMMEDIATELY.
2. MAINTENANCE AND REPAIRS WILL BE CONDUCTED WITHIN 24 HOURS OF INSPECTION REPORT.

- LEGEND**
- ROCK FILTER DAM -----
- STABILIZED CONSTRUCTION ACCESS -----
- INLET PROTECTION BARRIER -----
- CONCRETE TRUCK WASHOUT -----
- SAND BAG BERM -----
- FILTER FABRIC FENCE -----
- [Symbol: IPB]* IPB
- [Symbol: CTW]* CTW
- [Symbol: SB]* SB



ALIANA-HUNINGTON WATERLINE AND MEDIAN IMPROVEMENTS 2423-1702

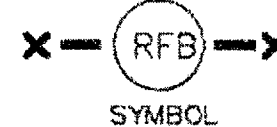


"V-DITCH" SECTION/ELEVATION

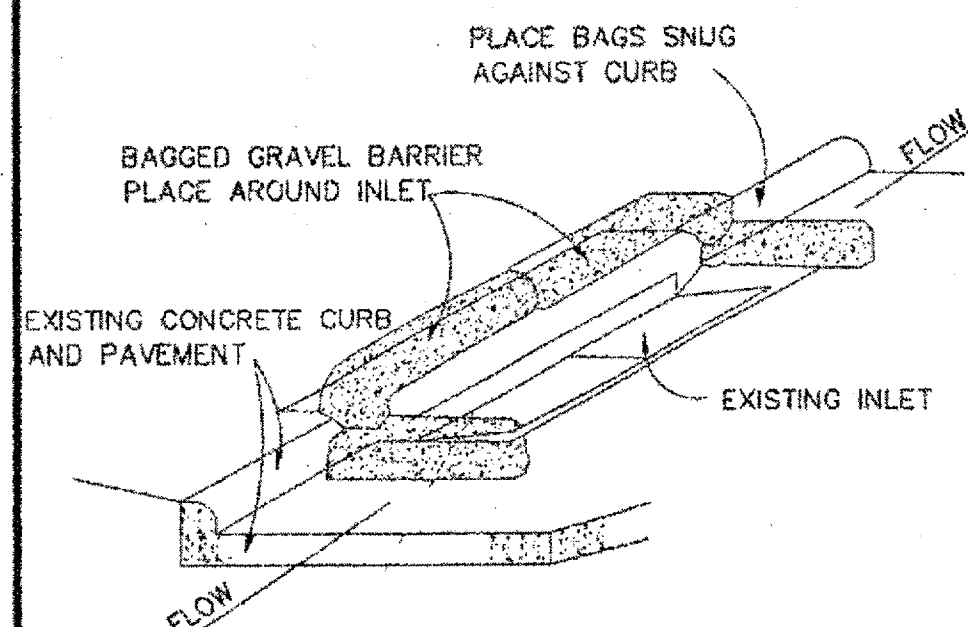
TRAPEZOIDAL SECTION/ELEVATION

CONSTRUCTION NOTES:

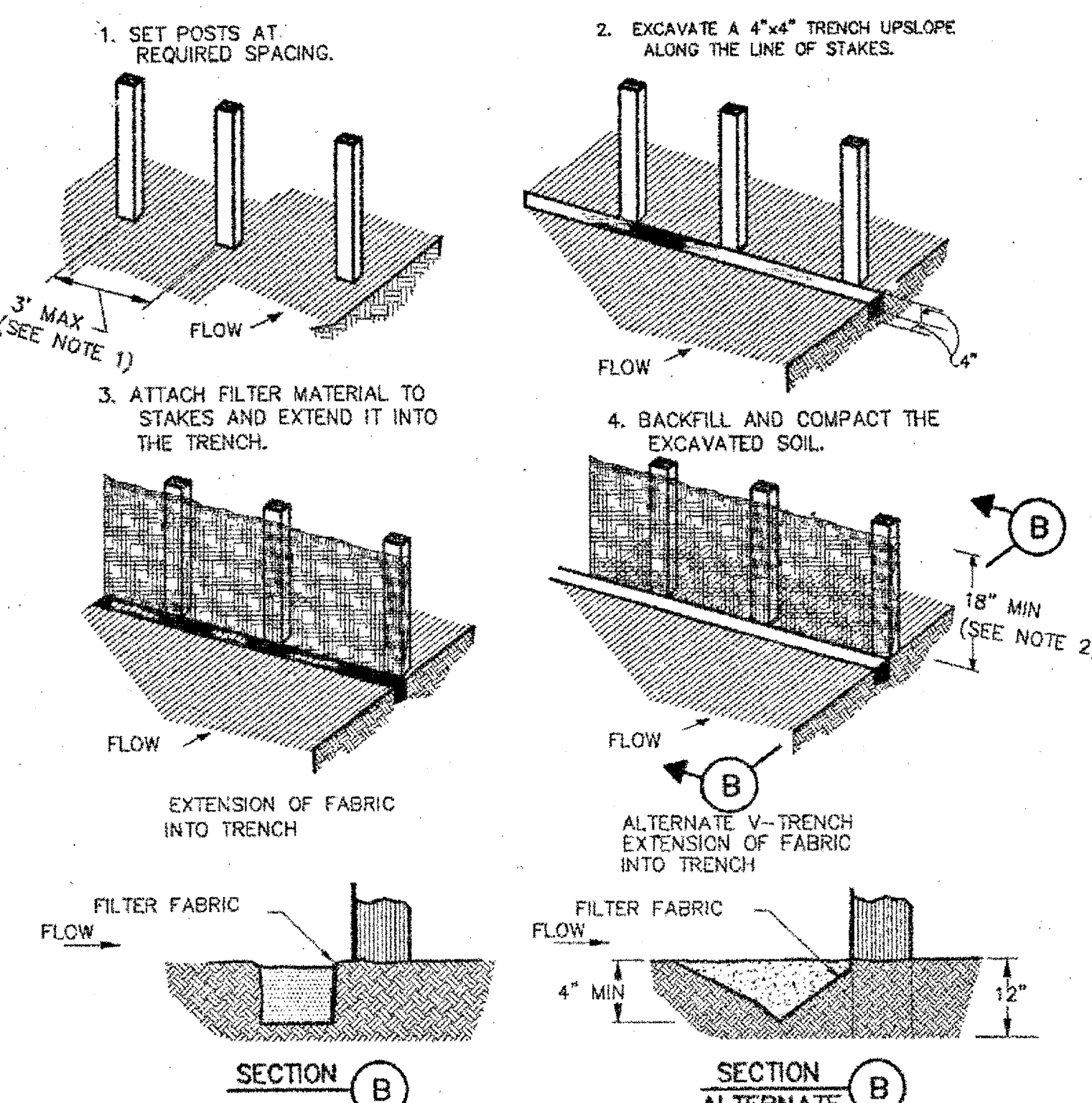
1. SET 2 INCH BY 2 INCH WOODEN STAKES SPACED A MAX OF 6 FEET APART AND EMBEDDED A MIN OF 12 INCHES.
2. WOVEN WIRE REINFORCING TO BE FASTENED SECURELY TO BARRIER POSTS WITH STAPLES.
3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE REINFORCING, WITH TIES SPACED EVERY 24 INCHES AT TOP AND MIDSECTION.
4. MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
6. SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.



REINFORCED FILTER FABRIC BARRIER



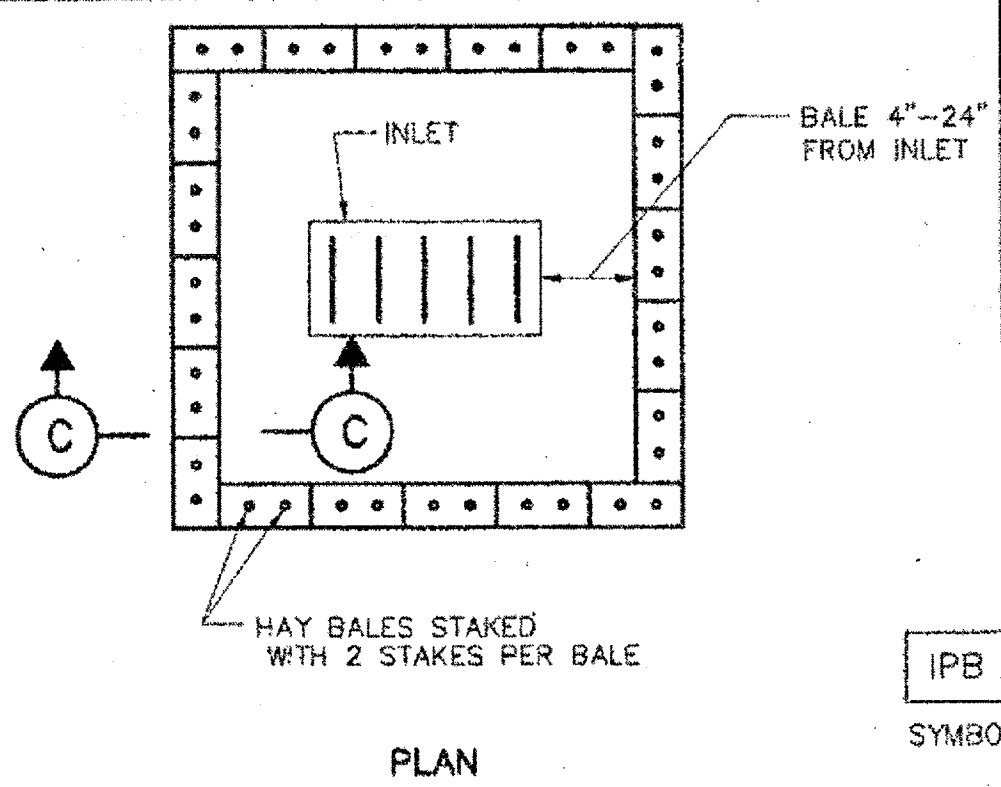
**INLET PROTECTION BARRIER
(FOR STAGE II INLETS)
BAGGED GRAVEL BARRIER**



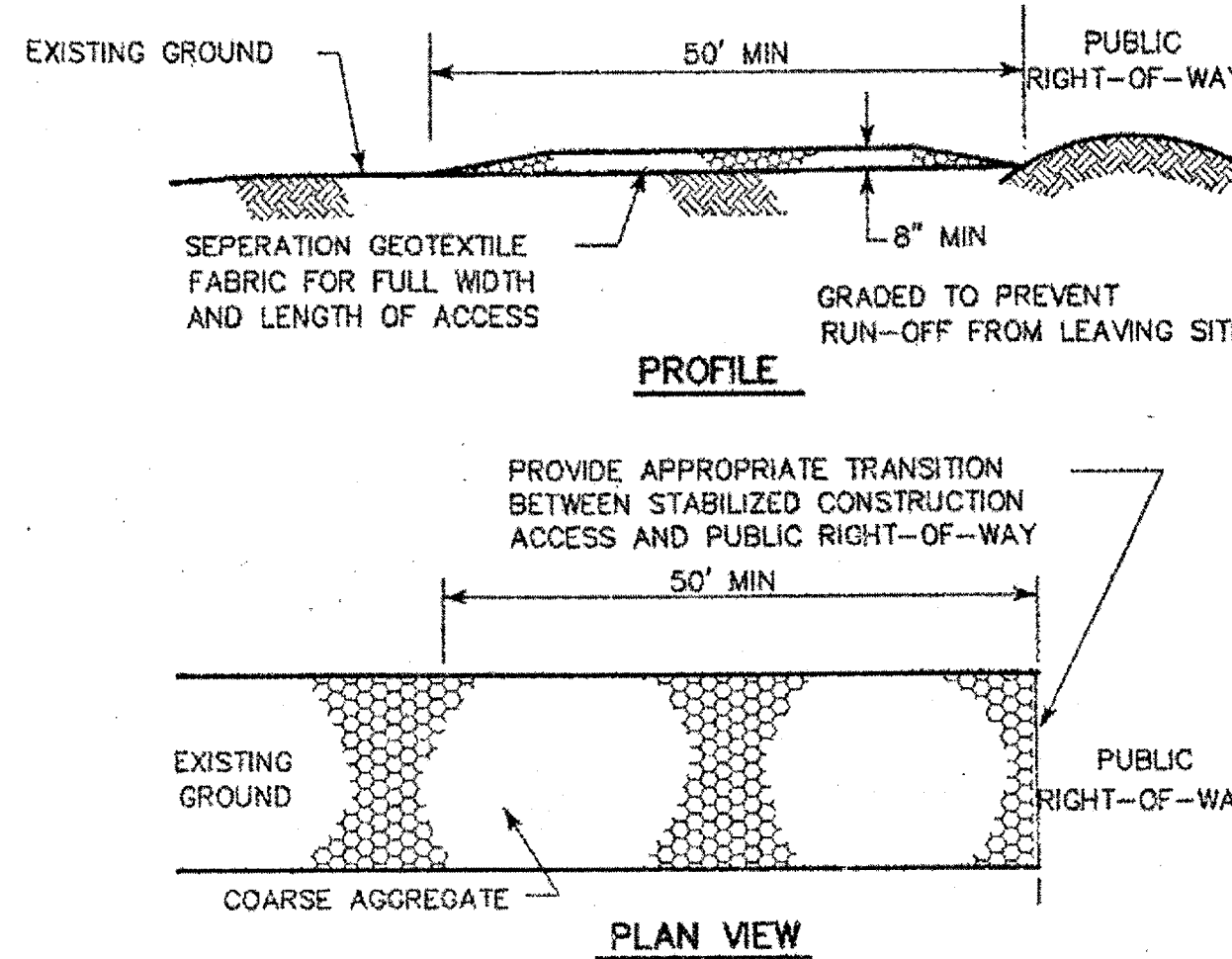
CONSTRUCTION NOTES:

1. 2 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT MAX SPACING OF 3 FEET AND EMBEDDED A MIN OF 8 INCHES. IF PREASSEMBLED BARRIER WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAX.
2. ATTACH FILTER FABRIC TO WOODEN STAKES. FILTER FABRIC BARRIER SHALL HAVE A MIN HEIGHT OF 18 INCHES AND MAX HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
4. SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.

FILTER FABRIC BARRIER

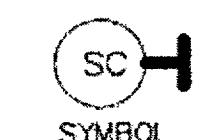


HAY BALE INLET PROTECTION BARRIER

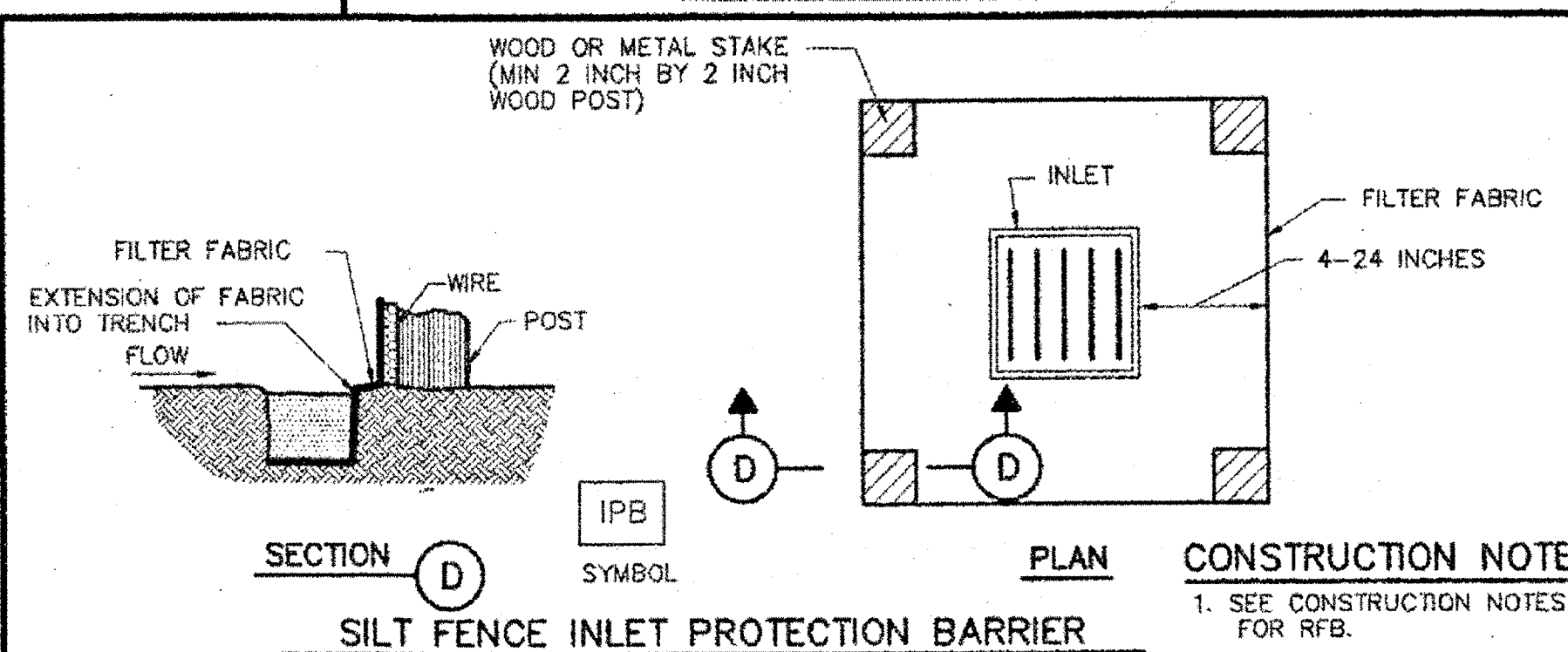


CONSTRUCTION NOTES:

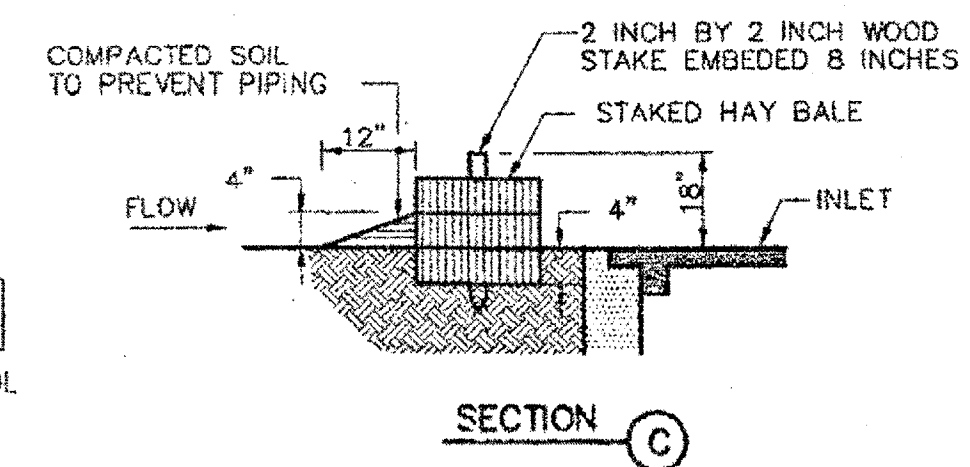
1. LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
2. THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
3. WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
4. STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION ACCESS, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
5. STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMMODATE A WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE WASHING AREA.
6. COH STANDARD SPECIFICATION FOR STABILIZED CONSTRUCTION ACCESS.
7. STABILIZED CONSTRUCTION ACCESS SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.



STABILIZED CONSTRUCTION ACCESS



SILT FENCE INLET PROTECTION BARRIER



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STORM WATER POLLUTION PREVENTION PLAN DETAILS
(NOT TO SCALE)

APPROVED: *[Signature]*
CITY ENGINEER

APPROVED: *[Signature]*
DIRECTOR OF PUBLIC WORKS AND ENGINEERING

EFF DATE: JULY-01-2010 DWG NO: 01571-01

BENCHMARK PUBLISHED ELEVATION - 125.06'
NATIONAL GEODETIC SURVEY MARKER, DESIGNATION "E 1280", PID "AW2158", DISK STAMPED "E 1280 1978" LOCATED ABOUT 4.6 MILES EAST ALONG FARM ROAD 1093 FROM THE SOUTHERN PACIFIC RAILROAD STATION IN FULSHEAR, ALSO, 1.7 MILES EAST ALONG FARM ROAD 1093 FROM THE JUNCTION OF FARM ROADS 359 AND 1463, SET 0.1 MILE NORTHWEST OF A POWER LINE SUB-STATION, 60 FEET NORTH OF THE CENTERLINE OF THE ROAD, 20.5 FEET EAST OF THE CENTERLINE OF A FIELD ROAD AND GATE LEADING NORTH, 2.5 FEET WEST-NORTHWEST OF A POWER POLE, NUMBER 1405, AND 1 FOOT SOUTH OF A FENCE. THE MARK IS 0.3 METERS SOUTH FROM A WITNESS POST. (NAVD 1988).

TBM "A" ELEVATION - 93.75'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE SOUTH OF WEST BELLFORT.

TBM "B" ELEVATION - 93.20'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE NORTH OF STATE HIGHWAY 99.

FORT BEND COUNTY ENGINEERING DEPARTMENT

ENGINEER: RICHARD W. STOLLEIS, P.E.
DATE: *[Signature]*
THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.
APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 12/14/17

RECORD DRAWING

I 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

BY: _____ DATE: _____
TITLE: _____

RECORD DRAWING

I 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

BY: _____ DATE: _____
TITLE: _____

DATE	REVISION	BY

PLAT NAME: SHOPS AT ALIANA

CPC 101 FILE NO. 2017-1121C2
C.O.H. LOG NO. 17-1654

CITY OF HOUSTON E.T.J.
FORT BEND COUNTY, TEXAS

ALIANA-HUNINGTON WATER LINE AND MEDIAN IMPROVEMENTS

EROSION CONTROL DETAILS

LJA Engineering, Inc.
1904 W. Grand Parkway North Phone 713.953.5200
Suite 100 Fax 713.953.5026
Katy, Texas 77449 FRN-F-1386

LJA PROJECT NO.: 2423-1702

DESIGNED BY: DPM DRAWN BY: DPM DATE: SEPTEMBER 2017

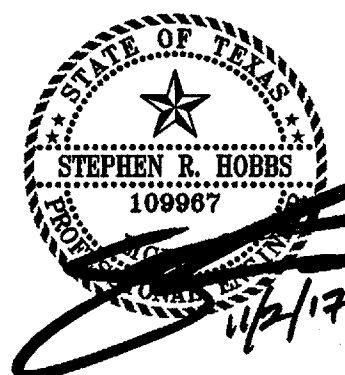
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WASTEWATER	TRAFFIC & TRANSPORTATION
STORM	STORM WATER QUALITY
FACILITIES	

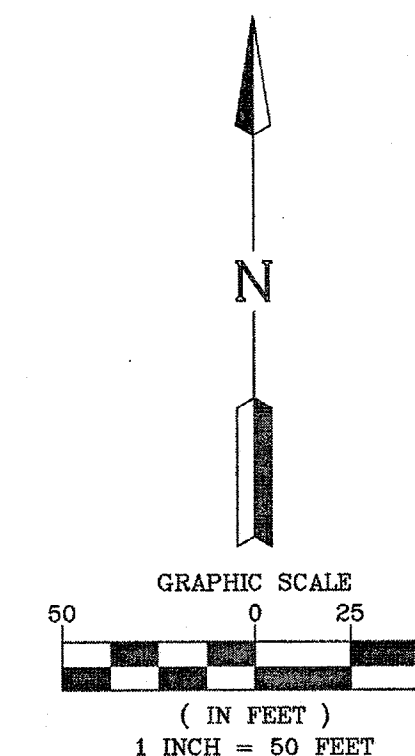
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DRAWING SCALE

SCALE: NONE

SHEET NO. 13 OF 16





WEST AIRPORT BLVD. (R.O.W. VARIES)

TRAFFIC CONTROL PLAN FOR LEFT TURN & MEDIAN OPENING CONSTRUCTION IN MEDIAN

Posted Speed	Formula	Minimum Desirable Taper Lengths			Suggested maximum Spacing of Channelizing Devices	
		10' Offset	11' Offset	12' Offset	On a taper	On a tangent
30	L = WS 50	150'	165'	180'	50'	55'
35		205'	225'	245'	35'	70'
40		265'	295'	320'	40'	80'
45		450'	495'	540'	45'	90'
50	L = WS	500'	550'	600'	50'	100'
55		550'	605'	660'	55'	110'
60		600'	660'	720'	60'	120'
65		650'	715'	780'	65'	130'
70		700'	770'	840'	70'	140'
75		750'	825'	900'	75'	150'
80		800'	880'	960'	80'	160'

* Distance between signs should be increased to have 1500 feet advance warning. (See Section 6C.04.07)

* Taper lengths have been rounded off.
L = Length of Taper (Feet) W = Width of Offset (Feet) S = Posted Speed (MPH)

BENCHMARK PUBLISHED ELEVATION ~ 125.06
NATIONAL GEODETIC SURVEYED, DESIGNATION "E
1280", PID #W125162; DIGIT. STATION #E-1280 1978"
LOCATED ALONG 4.5 MILE LONG FARM ROAD 1093
FROM THE SOUTHERN PACIFIC RAILROAD STATION IN
FUSHEAR, ALSO, 1.7 MILES EAST ALONG FARM ROAD 1093
FROM THE JUNCTION OF FARM ROADS 359 AND 1463, SET
0.1 MILE NORTHWEST OF A POWER LINE SUB-STATION, 60
FEET NORTH OF THE CENTERLINE OF THE ROAD, 20.5 FEET
EAST OF THE CENTERLINE OF A FIELD ROAD AND GATE.
LEADING NORTH, 2.5 FEET WEST-NORTHWEST OF A POWER
POLE, NUMBER 1405, AND 1 FOOT SOUTH OF A FENCE.
THE MARK IS 0.3 METERS SOUTH FROM A
WITNESS POST. (NAVD 1988).

TBM "A" ELEVATION - 93.75'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON
THE WEST R.O.W. OF WATVERNEY MEADOW DRIVE
SOUTH OF WEST BELLFORT.

TBM "B"	ELEVATION - 93.20'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE NORTH OF STATE HIGHWAY 99.	

FORT BEND COUNTY ENGINEERING DEPARTMENT

ENGINEER: _____
RICHARD W. STOLLEIS, P.E.
DATE: _____

THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS
NOT COMMENCED IN (1) YEAR FROM DATE OF
APPROVAL.

APPROVED: CRB
DEVELOPMENT COORDINATOR

DATE: 12/2/17

RECORD DRAWING

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TITLE

[illegible]

PLAT NAME: SHOPS AT ALIANA

CPC 101 FILE NO. 2017-1121C2
C.O.H. LOG NO. 17-1654

CITY OF HOUSTON E.T.J.
FORT BEND COUNTY, TEXAS

ALIANA—HUNINGTON WATER LINE AND MEDIAN IMPROVEMENTS

TRAFFIC CONTROL PLAN

LJA Engineering, Inc. 

1904 W. Grand Parkway North
Suite 100
Katy, Texas 77449

Phone 713.953.5200
Fax 713.953.5026
FRN-F-1386

LJA PROJECT NO.: 2423-1702

DESIGNED BY:	DRAWN BY:	DATE:
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WATER	2 1 1 1	STREET & BRIDGE
-------	---------	-----------------

ADP 03/15/18

WASTEWATER	TRAFFIC & TRANSPORTATION
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Count 3-15-18	
STOCK WATER QUALITY	

STORM WATER QUALITY

244 210/10	
FACILITIES	

FILE NO.	
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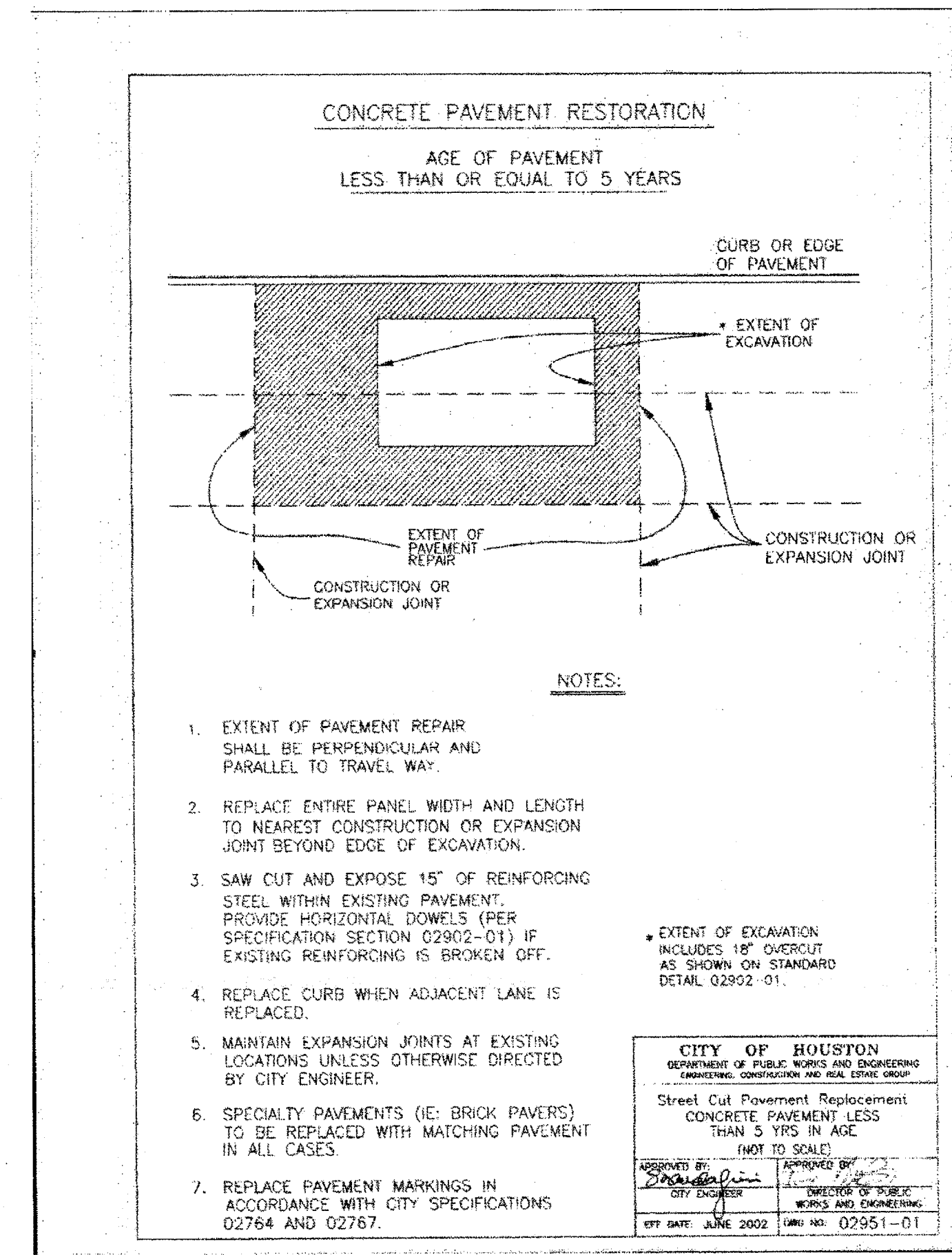
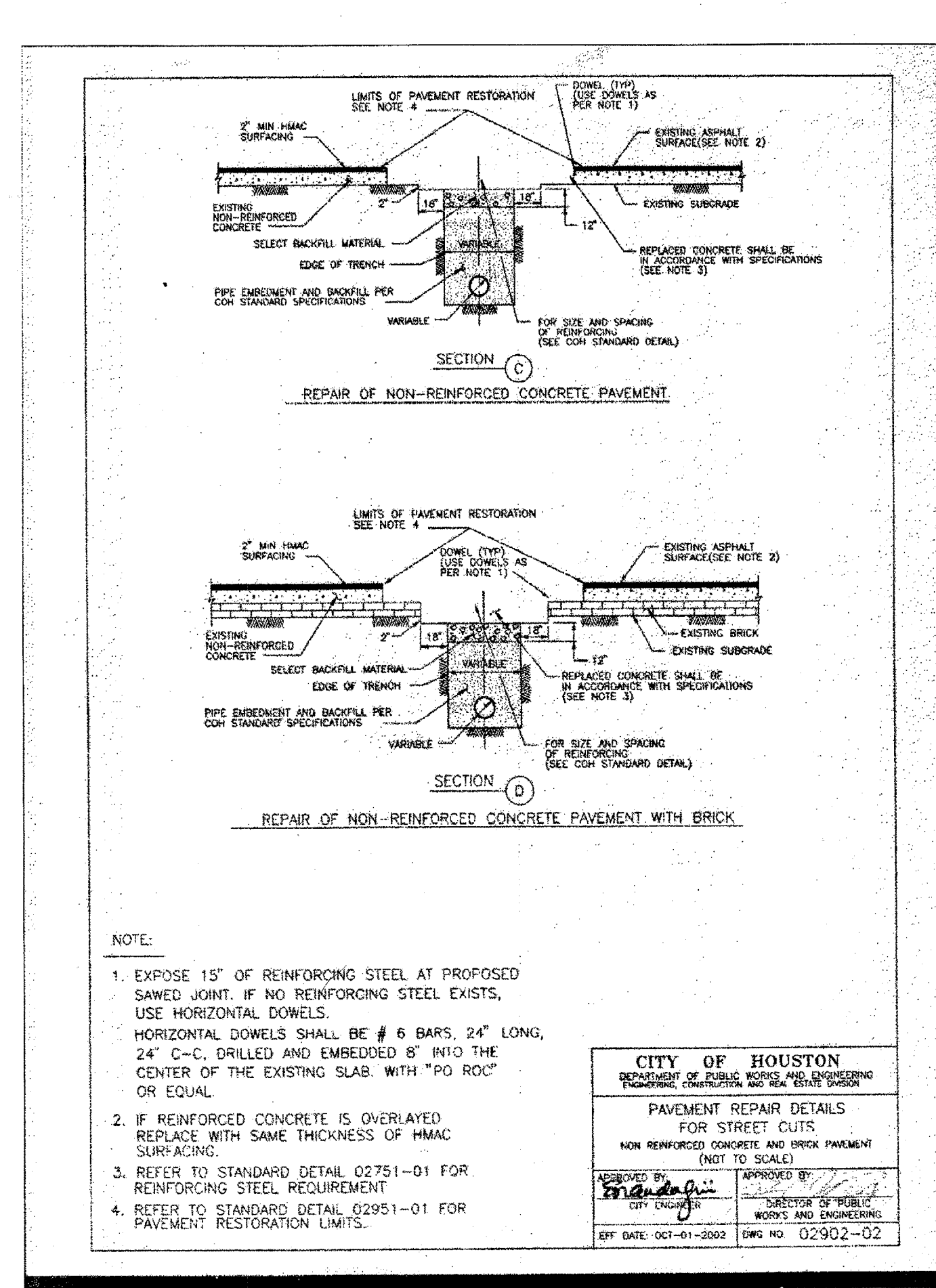
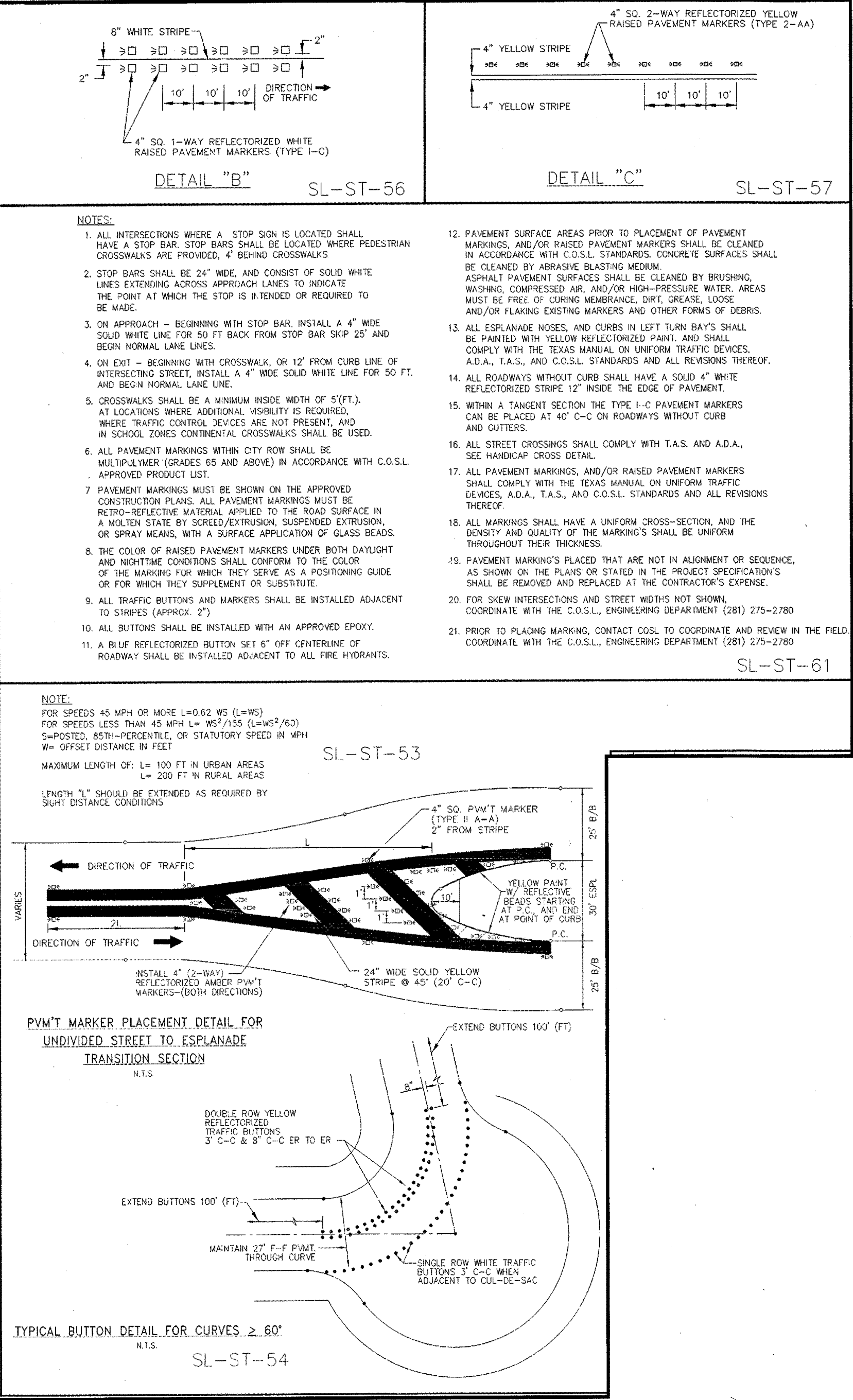
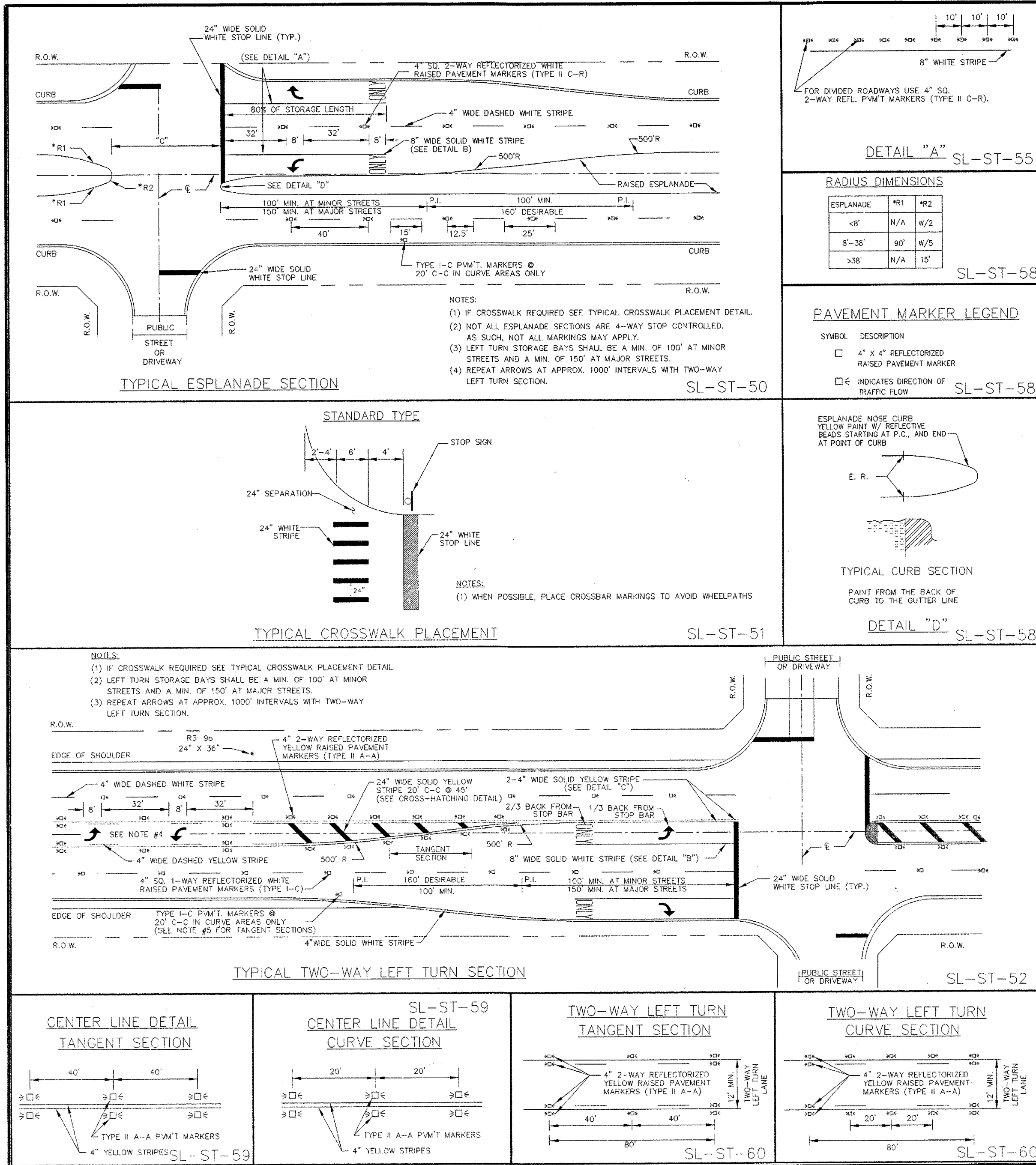
DRAWING SCALE

SCALE: AS SHOWN

SHEET 14 16

Date/Time : Wed, 20 Dec 2017 -- 5:04pm
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Highway	Year	Waterline	Median	Improvements	2423-1702
ALIANA-HUNTINGTON	1917	066	6		



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FORT BEND COUNTY ENGINEERING DEPARTMENT

ENGINEER: RICHARD W. STOLLES, P.E.
DATE: 12/14/17
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APPROVED: [Signature] DEVELOPMENT COORDINATOR
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DATE	REVISION	BY

PLAT NAME: SHOPS AT ALIANA

CPC 101 FILE NO. 2017-1121C2
C.O.H. LOG NO. 17-1654

CITY OF HOUSTON E.T.J.
FORT BEND COUNTY, TEXAS

ALIANA-HUNNINGTON WATER LINE AND MEDIAN IMPROVEMENTS

CONSTRUCTION DETAILS

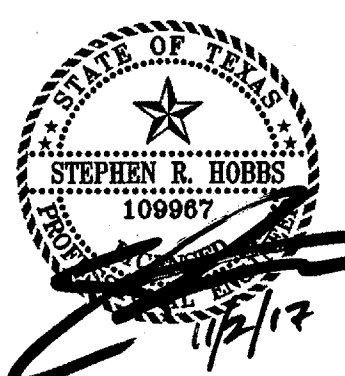
LJA Engineering, Inc.
1904 W. Grand Parkway North Suite 100 Katy, Texas 77449
Phone 713.953.5200 Fax 713.953.5026 FRN-F-1386

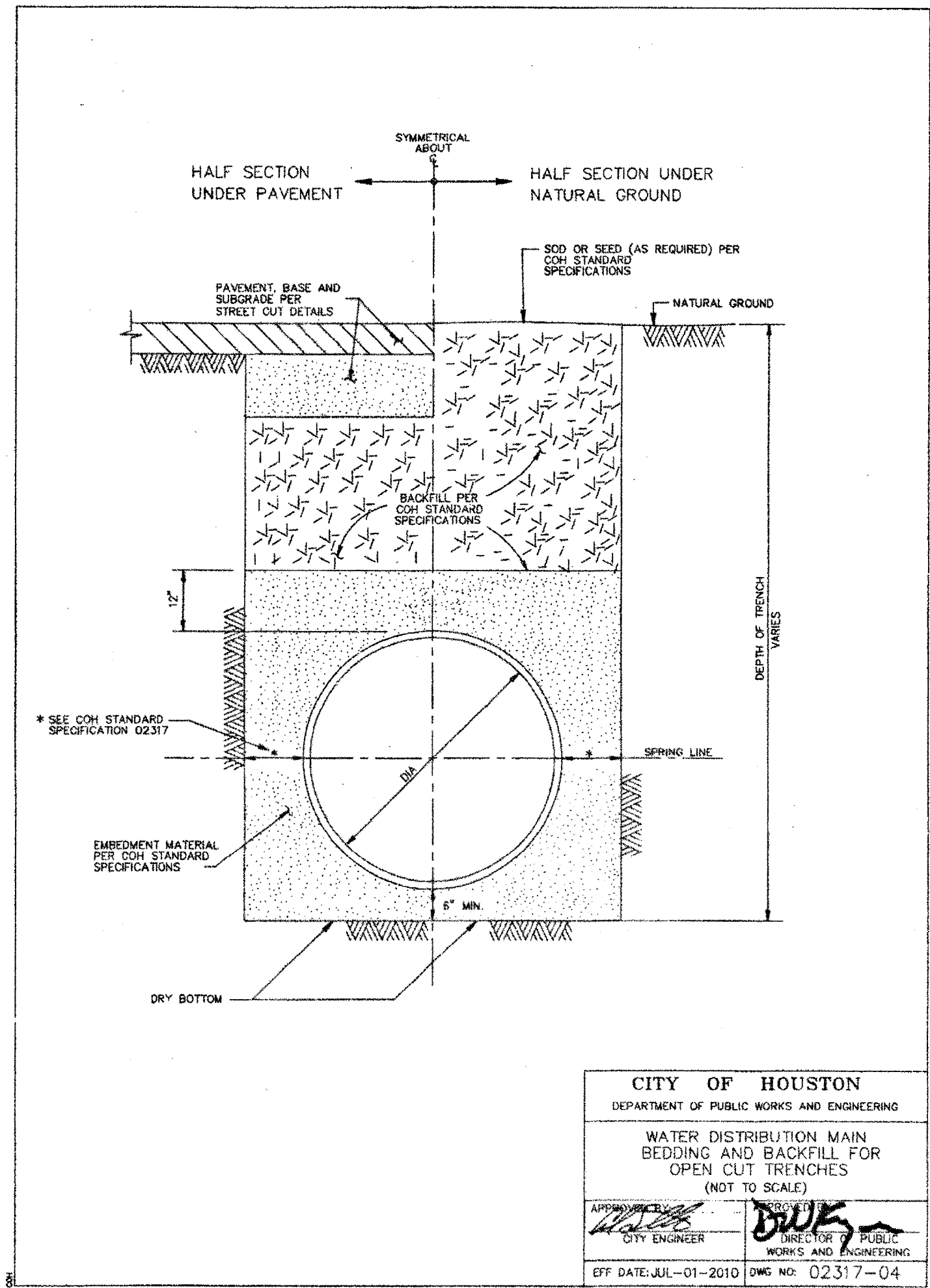
LJA PROJECT NO.: 2423-1702

DESIGNED BY: DPM DRAWN BY: DPM DATE: SEPTEMBER 2017

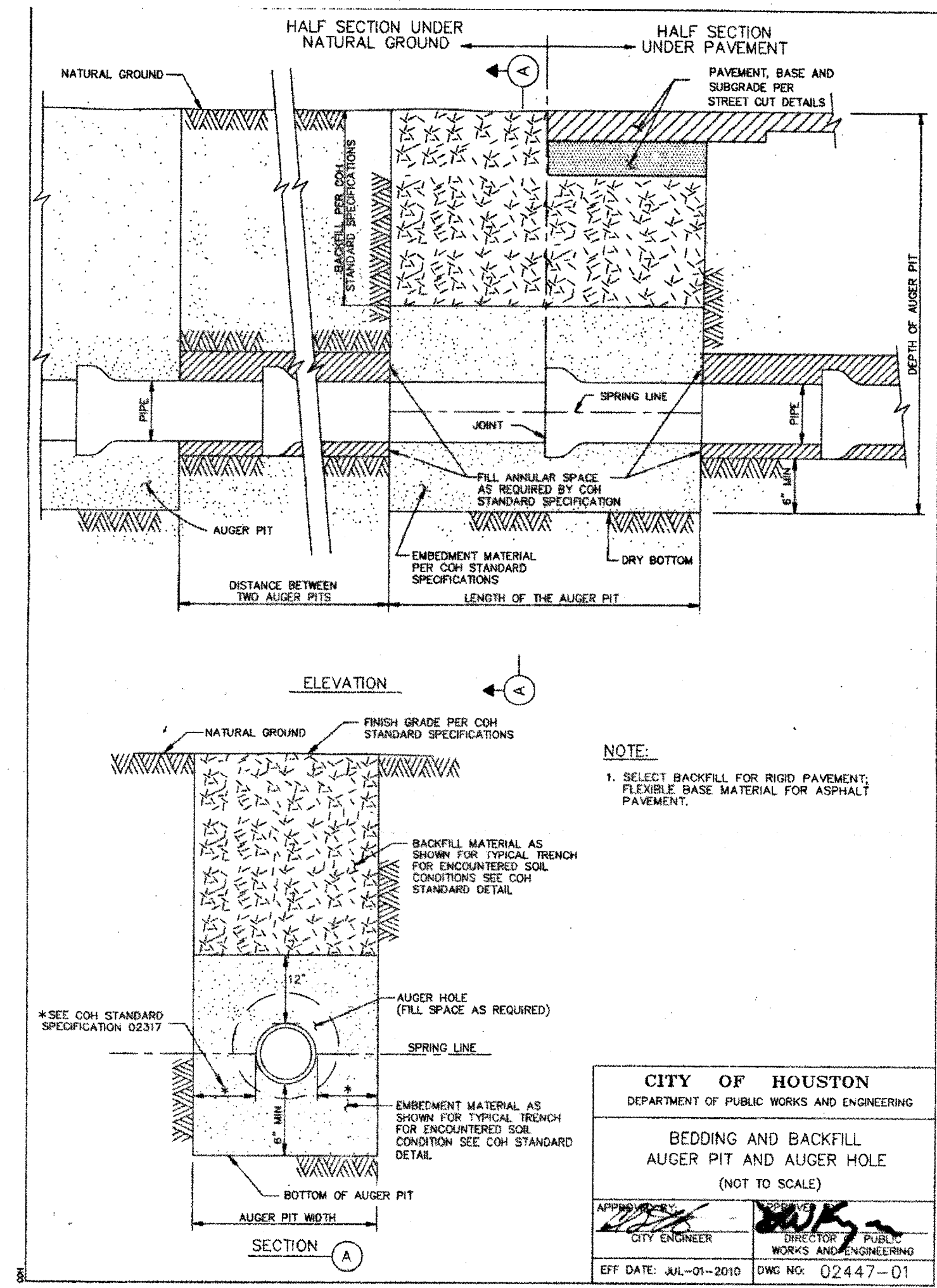
WATER	STREET & BRIDGE
WASTEWATER	TRAFFIC & TRANSPORTATION
STORM	STORM WATER QUALITY
FACILITIES	

FILE NO.	
DRAWING SCALE	
SCALE: NONE	
SHEET NO. 15 OF 16	

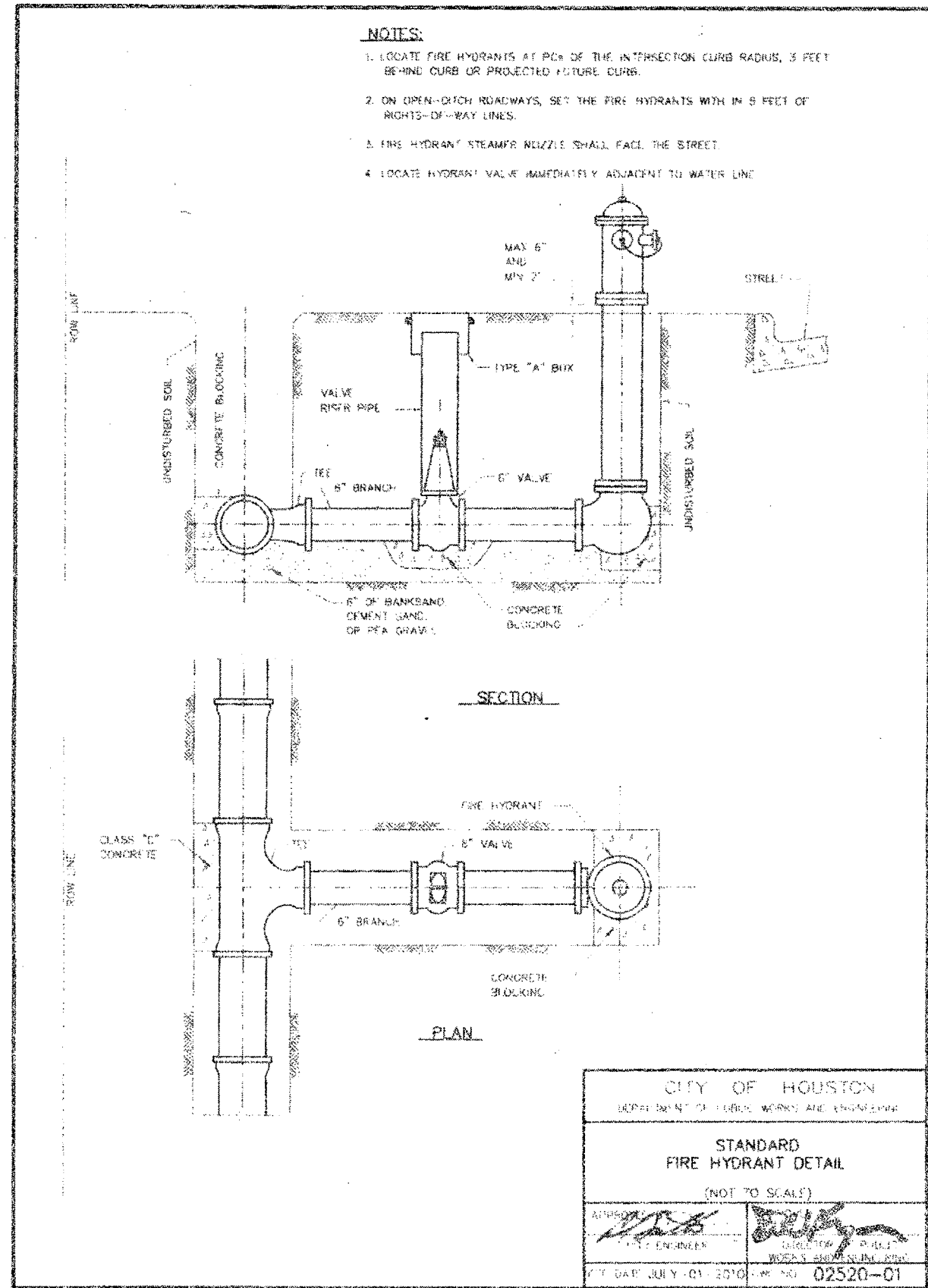




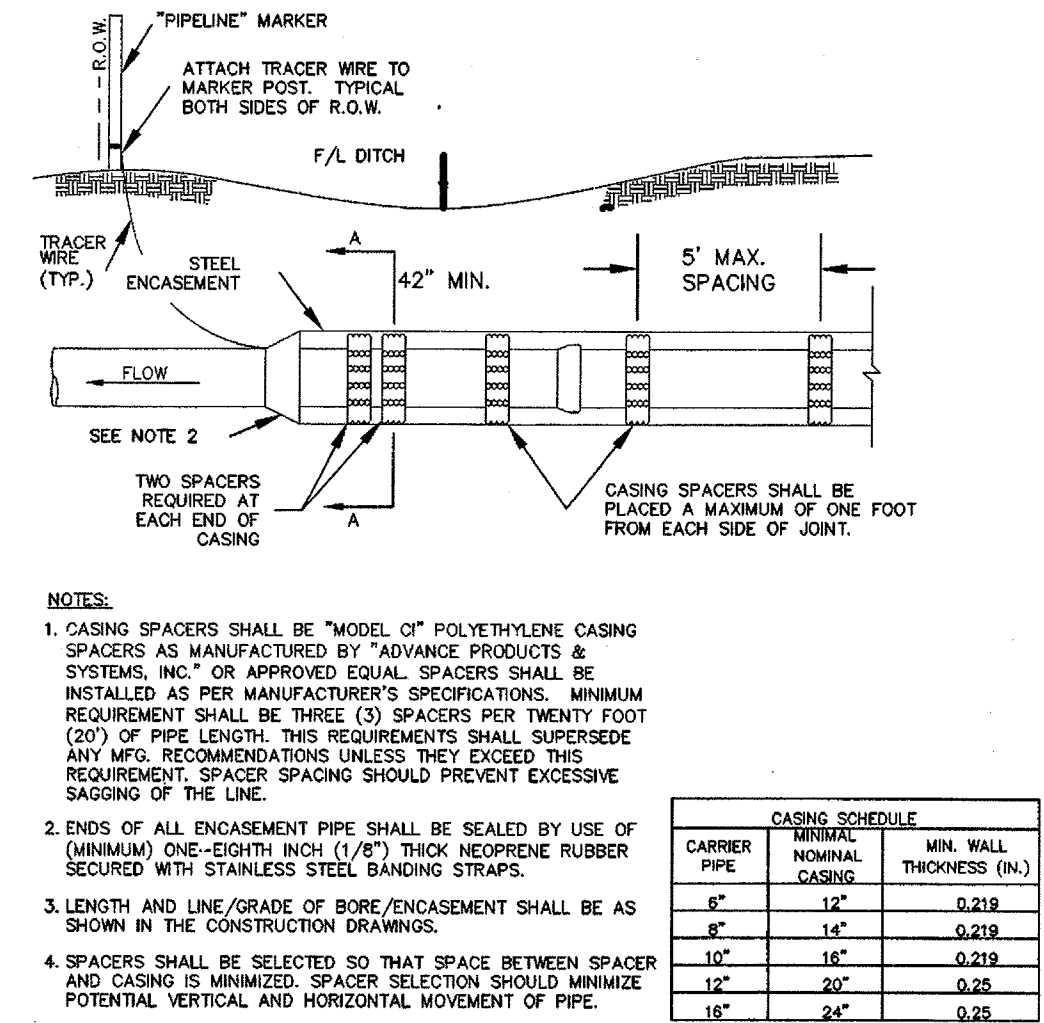
WATER DISTRIBUTION MAIN BEDDING AND BACKFILL FOR OPEN CUT TRENCHES



BEDDING AND BACKFILL AUGER PIT AND AUGER HOLE



STANDARD FIRE HYDRANT DETAIL



WATER MAIN ENCASEMENT

BENCHMARK PUBLISHED ELEVATION - 125.06'
NATIONAL GEODETIC SURVEY MARKER, DESIGNATION "E 1280", PID "AW2158", DISK STAMPED "E 1280 1978" LOCATED ABOUT 4.6 MILES EAST ALONG FARM ROAD 1093 FROM THE SOUTHERN PACIFIC RAILROAD STATION IN FULSHEAR. ALSO, 1.7 MILES EAST ALONG FARM ROAD 1093 FROM THE JUNCTION OF FARM ROADS 359 AND 1463, SET 0.1 MILE NORTHWEST OF A POWER LINE SUB-STATION, 60 FEET NORTH OF THE CENTERLINE OF THE ROAD, 20.5 FEET EAST OF THE CENTERLINE OF A FIELD ROAD AND GATE LEADING NORTH- 2.5 FEET WEST-NORTHWEST OF A POWER POLE, NUMBER 1405, AND 1 FOOT SOUTH OF A FENCE. THE MARK IS 0.3 METERS SOUTH FROM A WITNESS POST. (NAVD 1988).

TBM "A" ELEVATION - 93.75'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE SOUTH OF WEST BELLFORT.

TBM "B" ELEVATION - 93.20'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE NORTH OF STATE HIGHWAY 99.

FORT BEND COUNTY ENGINEERING DEPARTMENT

ENGINEER: RICHARD W. STOLLEIS, P.E.

DATE: 12/14/17

THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: 12/14/17

RECORD DRAWING

I 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

BY: _____ DATE: _____

TITLE: _____

RECORD DRAWING

I 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

BY: _____ DATE: _____

TITLE: _____

DATE	REVISION	BY

PLAT NAME: SHOPS AT ALIANA

CPC 101 FILE NO. 2017-1121C2

C.O.H. LOG NO. 17-1654

CITY OF HOUSTON E.T.J.

FORT BEND COUNTY, TEXAS

ALIANA-HUNINGTON WATER LINE AND MEDIAN IMPROVEMENTS

CONSTRUCTION DETAILS 2

LJA Engineering, Inc.

1904 W. Grand Parkway North Suite 100 Katy, Texas 77449

Phone 713.953.5200 Fax 713.953.5026 FRN-F-1386

LJA PROJECT NO.: 2423-1702

DESIGNED BY: DPM DRAWN BY: DPM DATE: SEPTEMBER 2017

WATER	STREET & BRIDGE
WASTEWATER	TRAFFIC & TRANSPORTATION
STORM	STORM WATER QUALITY
FACILITIES	

FILE NO. _____

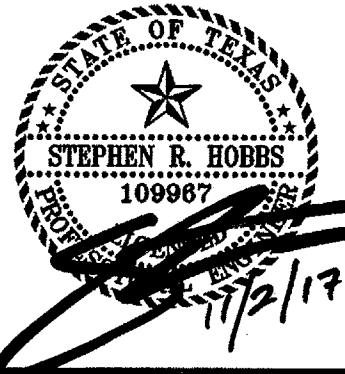
DRAWING SCALE _____

SCALE: NONE



SHEET NO. 16 OF 16

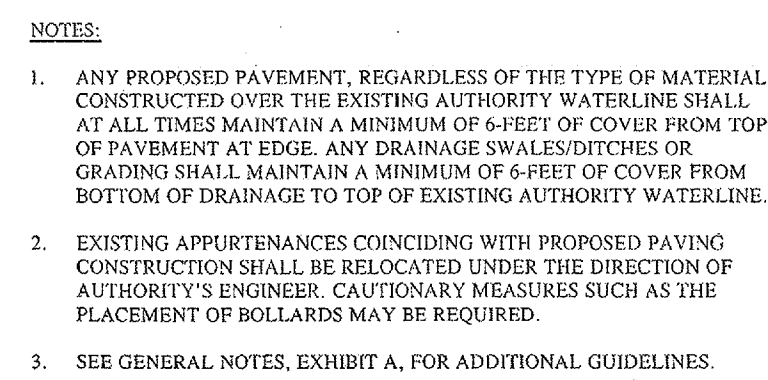
DATE: 12/14/17


59275



ALIANA-HUNINGTON WATERLINE AND MEDIAN IMPROVEMENTS 2423-1702

			<p>North Fort Bend Water Authority</p>		
			<p>Brown & Gay Engineers, Inc. 10777 Westminster, Suite 400, Houston, TX 77042 Tel: 281-558-8700 Fax: 281-558-8701 — Civil engineers and surveyors — — FIRM REGISTRATION NO. F-1046</p>		
<p align="center">NORTH FORT BEND WATER AUTHORITY</p>					
<p align="center">AERIAL UTILITY CROSSING GUIDELINES</p>					
<p>SCALE: NTS</p>		<p>JOB # NFB09-60</p>		<p>DATE: APR. 2011</p>	



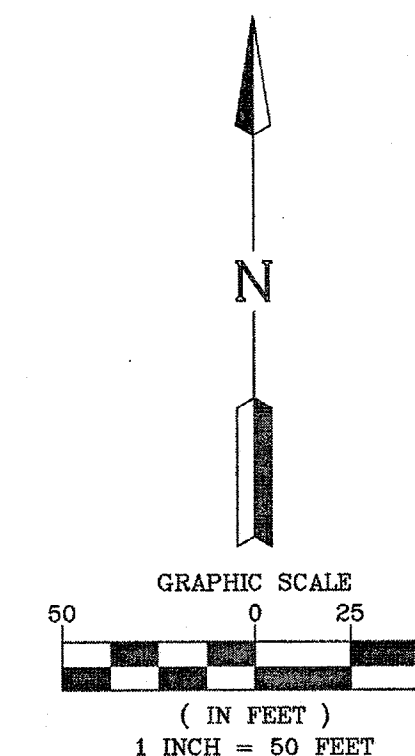
	Brown & Gay Engineers, Inc.		1077 Westheimer, Suite 400, Houston, TX 77042 Tel. (281) 658-8700 Fax (281) 658-0701 ~ Civil Engineers and Surveyors ~ TPEE REGISTRATION NO. F-1046	Contract 3907
	NORTH FORT BEND WATER AUTHORITY SURFACE CROSSING GUIDELINES			
SCALE NTS	JOB # NFB09-60	DATE APR. 2011		

SHEET 16A OF 16

206
Δ NPGWA revision
2/4/18

STATE OF TEXAS
STEPHEN R. HOBBS
10909
3/14/18

ALIANA—HUNTING WATERLINE AND MEDIAN IMPROVEMENTS 2423—1702



WEST AIRPORT BLVD. (R.O.W. VARIES)

TRAFFIC CONTROL PLAN FOR LEFT TURN & MEDIAN OPENING CONSTRUCTION IN MEDIAN

Posted Speed	Formula	Minimum Desirable Taper Lengths			Suggested maximum Spacing of Channelizing Devices	
		10' Offset	11' Offset	12' Offset	On a taper	On a tangent
30	L = WS 50	150'	165'	180'	30'	50'
35		205'	225'	245'	35'	70'
40		265'	295'	320'	40'	80'
45		450'	495'	540'	45'	90'
50	L = WS	500'	550'	600'	50'	100'
55		550'	605'	660'	55'	110'
60		600'	660'	720'	60'	120'
65		650'	715'	780'	65'	130'
70		700'	770'	840'	70'	140'
75		750'	825'	900'	75'	150'
80		800'	880'	960'	80'	160'

* Distance between signs should be increased to have 1500 feet advance warning. (See Section 6C.04.07)

* Taper lengths have been rounded off.
L = Length of Taper (Feet) W = Width of Offset (Feet) S = Posted Speed (MPH)

BENCHMARK PUBLISHED ELEVATION ~ 125.06'
NATIONAL GEODETIC SURVEY MARK, DESIGNATION "E
1280", PD "A12156", DISK STAMPED "E 1280 1978"
LOCATED 1.7 MILES WEST-NORTHWEST OF FARM ROAD 1093
FROM THE SOUTHERN PACIFIC RAILROAD STATION IN
FULSHEAR, ALAB. 1.7 MILES EAST ALONG FARM ROAD 1093
FROM THE JUNCTION OF FARM ROADS 359 AND 1463, SET
0.1 MILE NORTHWEST OF A POWER LINE SUB-STATION, 60
FEET NORTH OF THE CENTERLINE OF THE ROAD, 20.5 FEET
EAST OF THE CENTERLINE OF A FIELD ROAD AND GATE.
LEADING NORTH, 2.5 FEET WEST-NORTHWEST OF A POWER
POLE, NUMBER 1405, AND 1 FOOT SOUTH OF A FENCE.
THE MARK IS 0.3 METERS SOUTH FROM A
WITNESS POST. (NAV 1988).

TBM "A" ELEVATION - 93.75'

A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE SOUTH OF WEST BELLFORT.

TBM "B"	ELEVATION - 93.20'
A CUT BOX IN FIRST CONCRETE "C" INLET LOCATED ON THE WEST R.O.W. OF WATERVIEW MEADOW DRIVE NORTH OF STATE HIGHWAY 99.	

FORT BEND COUNTY ENGINEERING DEPARTMENT

ENGINEER: _____
RICHARD W. STOLLEIS, P.E.
DATE: _____

THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS
NOT COMMENCED IN (1) YEAR FROM DATE OF
APPROVAL.

APPROVED: _____
[Signature] DEVELOPMENT COORDINATOR
DATE: _____
12/2/17

RECORD DRAWING

I 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

BY _____ DATE _____

TITLE _____

RECORD DRAWING

I 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

BY _____ DATE _____

TITLE	DATE	BY	NO.	PRICE	REMARKS
1. The History of the United States	1876	Wm. H. Allen	1	50	
2. The History of the United States	1876	Wm. H. Allen	2	50	
3. The History of the United States	1876	Wm. H. Allen	3	50	
4. The History of the United States	1876	Wm. H. Allen	4	50	
5. The History of the United States	1876	Wm. H. Allen	5	50	
6. The History of the United States	1876	Wm. H. Allen	6	50	
7. The History of the United States	1876	Wm. H. Allen	7	50	
8. The History of the United States	1876	Wm. H. Allen	8	50	
9. The History of the United States	1876	Wm. H. Allen	9	50	
10. The History of the United States	1876	Wm. H. Allen	10	50	
11. The History of the United States	1876	Wm. H. Allen	11	50	
12. The History of the United States	1876	Wm. H. Allen	12	50	
13. The History of the United States	1876	Wm. H. Allen	13	50	
14. The History of the United States	1876	Wm. H. Allen	14	50	
15. The History of the United States	1876	Wm. H. Allen	15	50	
16. The History of the United States	1876	Wm. H. Allen	16	50	
17. The History of the United States	1876	Wm. H. Allen	17	50	
18. The History of the United States	1876	Wm. H. Allen	18	50	
19. The History of the United States	1876	Wm. H. Allen	19	50	
20. The History of the United States	1876	Wm. H. Allen	20	50	
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32. The History of the United States	1876	Wm. H. Allen	32	50	
33. The History of the United States	1876	Wm. H. Allen	33	50	
34. The History of the United States	1876	Wm. H. Allen	34	50	
35. The History of the United States	1876	Wm. H. Allen	35	50	
36. The History of the United States	1876	Wm. H. Allen	36	50	
37. The History of the United States	1876	Wm. H. Allen	37	50	
38. The History of the United States	1876	Wm. H. Allen	38	50	
39. The History of the United States	1876	Wm. H. Allen	39	50	
40. The History of the United States	1876	Wm. H. Allen	40	50	
41. The History of the United States	1876	Wm. H. Allen	41	50	
42. The History of the United States	1876	Wm. H. Allen	42	50	
43. The History of the United States	1876	Wm. H. Allen	43	50	
44. The History of the United States	1876	Wm. H. Allen	44	50	
45. The History of the United States	1876	Wm. H. Allen	45	50	
46. The History of the United States	1876	Wm. H. Allen	46	50	
47. The History of the United States	1876	Wm. H. Allen	47	50	
48. The History of the United States	1876	Wm. H. Allen	48	50	
49. The History of the United States	1876	Wm. H. Allen	49	50	
50. The History of the United States	1876	Wm. H. Allen	50	50	

[illegible]

PLAT NAME: SHOPS AT ALIANA

CPC 101 FILE NO. 2017-1121C2
C.O.H. LOG NO. 17-1654

CITY OF HOUSTON E.T.J.
FORT BEND COUNTY, TEXAS

ALIANA-HUNINGTON WATER LINE AND MEDIAN IMPROVEMENTS

TRAFFIC CONTROL PLAN

LJA Engineering, Inc.

1904 W. Grand Parkway North
Suite 100
Katy, Texas 77449

Phone 713.953.5200
Fax 713.953.5026
FRN-F-1386

LJA PROJECT NO.: 2423-1702

DESIGNED BY:	DRAWN BY:	DATE:
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WATER	2-1-1-1	STREET & BRIDGE
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ADP 03/15/18

WASTEWATER	TRAFFIC & TRANSPORTATION
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Const 3-15-18	
STORY WATER QUALITY	

STORM	STORM WATER QUALITY
04636418	

244 211-716	
FACILITIES	

FILE NO.	
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DRAWING SCALE

SCALE: AS SHOWN

SHEET 14 16

Date/Time : Wed, 20 Dec 2017 -- 5:04pm
 User Name : ipasquarelli
 Path Name : I:\Projdsk1\2423\1701\ACAD\SHEETFILE (MEDIAN IMPROVEMENTS)\10 TRAFFIC CONTROL PLAN.dwg

Highway	Year	Waterline	Median	Improvements	2423-1702
ALIANA-HUNINGTON	2017	0	6	6	